



Bid 627
New HVAC Modernization Project for (Both) Oxnard and Pacifica High Schools

BID CLARIFICATION ADDENDUM #3

Dated: August 25th, 2020

All interested parties seeking to submit responses to the Oxnard Union High School District's Bid #627 shall execute the certification at the end of this addendum and shall attach the addendum to the documents submitted to the District.

The Oxnard Union High School District hereby amends Bid 627 New HVAC Modernization Project for (Both) Oxnard and Pacifica High Schools as follows:

1) Master Schedule, *Bid Due Date*, is hereby amended as follows:

Bids Due 9/17/2020 by 2:00PM

2) Please refer to Attachment A - Revised Bid Form for Bid 627 New HVAC Modernization Project for (Both) Oxnard and Pacifica High Schools

3) Please see Attachment B - Architect's addendum 1 for Oxnard High School Project.

4) Please see Attachment C - Architect's addendum 1 for Pacifica High School Project.

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum # 1 and accept all conditions contained herein.

Dated: _____ **BIDDER:** _____
(company/entity)

By: _____ **Printed Name:** _____
(authorized representative signature)

Title: _____

Bid Clarification Addendum #3
Attachment A
Revised Bid Form

BID FORM AND PROPOSAL

To: Governing Board of the Oxnard Union High School District ("District" or "Owner")

From: _____
(Proper Name of Bidder)

The undersigned declares that Bidder has read and understands the Contract Documents, including, without limitation, the Notice to Bidders and the Instructions to Bidders, and agrees and proposes to furnish all necessary labor, materials, and equipment to perform and furnish all work in accordance with the terms and conditions of the Contract Documents, including, without limitation, the Drawings and Specifications of

Bid No. _____ for the following project known as:

New HVAC Modernization for Oxnard and Pacifica High Schools

("Project" or "Contract") and will accept in full payment for that Work the following total lump sum amount, all taxes included:

_____ dollars \$ _____
BASE BID VALUE FOR OXNARD HIGH SCHOOL

_____ dollars \$ _____
BASE BID VALUE FOR PACIFICA HIGH SCHOOL

_____ dollars \$ _____
BASE BID VALUE FOR BOTH HIGH SCHOOLS COMBINED

Bidder acknowledges and agrees that the Base Bid accounts for any and all costs. Both projects scopes are combined for a total awarded value noted.

- A. The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this Proposal, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its Proposal, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.
- B. The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.

- C. The undersigned agrees to commence work under this Contract on the date established in the Contract Documents and to complete all work within the time specified in the Contract Documents.
- D. The liquidated damages clause of the General Conditions and Agreement is hereby acknowledged.
- E. It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable for a period of ninety (90) days.
- F. The following documents are attached hereto:
 - Bid Bond on the District's form or other security
 - Designated Subcontractors List
 - Site Visit Certification
 - Non-Collusion Declaration
 - Iran Contracting Act Certification
- G. Receipt and acceptance of the following Addenda is hereby acknowledged:

No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____

- H. Bidder acknowledges that the license required for performance of the Work is a B license.
- J. Bidder hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.
- K. Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with all requirements of the Department of Industrial Relations.
- L. Bidder hereby certifies that its bid includes sufficient funds to permit Bidder to comply with all local or state labor laws or regulations during the Project, including payment of prevailing wage, and that Bidder will comply with the provisions of Labor Code section 2810(d) if awarded the Contract
- M. Bidder agrees to comply with all requirements of the Project Labor Agreement.
- N. Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property.
- O. Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.

- P. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms "claim" and "knowingly" are defined in the California False Claims Act, Gov. Code, § 12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.
- Q. The undersigned Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the Contract, licensed by the State of California to do the type of work required under the terms of the Contract Documents and registered as a public works contractor with the Department of Industrial Relations. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.
- R. Bidder acknowledges that the Oxnard and Pacifica High Schools are fully occupied, and that students and School District staff have the right of way within the classroom buildings whenever school is in session. Please see the Oxnard Union High School District calendar at oxnardunion.org for an example of typical school occupancy. Students typically begin at 8:00AM and are released at 3:00PM each school day.
- S. District will stage no more than thirteen (13) classroom relocatable units on each campus for students and staff to use while construction is occurring in their permanent classrooms. Consequently, no more than 13 permanent classrooms can be emptied at any given time to allow for construction activities to occur within the permanent classrooms.

The Prime General Contractor will pay for each classroom's contents to be removed, stored and returned to same permanent classroom after each phase of work is complete. Contractor will provide (6) 10' X 40' weather tight storage containers for all miscellaneous FF&E on each campus.

The District will only box and move personal and study/text items from classrooms.

- T. The awarded contractor will be required to provide a document control system. The specific system is noted within the following. Centralizing Data and Document Management is critical to the success of construction projects. The Contractor, District, Architect and Construction Manager will have access along with all associated team members.
- U. The Contractor will implement the use of the following project documentation system. The system license will be purchased by the Contractor for the duration of the project as below.

Duration: 36 Months; Project: Oxnard and Pacifica High School, Oxnard Union High School District, Construction Manager: Bernards. Each General Contractor (Bidder) is to incorporate within their proposal a value of (\$5,500.00) fifty five hundred dollars and zero cents per school per year. The system will be accessible to all parties related to the project.

The contractor will also provide an electronic copy of the entire documentation of the project to OUHSD as a portion of the closeout documents.

System provider information listed:

Owner Insite, LLC. Contact Phil Burke Main: 888-336-3393 Direct: 512-637-6369.
www.owner-insite.com

- V. The District will disconnect, box, move, address, relocate, and reconnect all IT issues related to classroom relocations.
- W. Special Requirements: Contract shall avoid any excessive noise or vibration adjacent to occupied classrooms will not be tolerated and must occur off normal school hours.
- X. Contractor shall provide adequate procedures for the COVID 19 PANDEMIC. Contractor shall provide procedures within their submitted IIPP addressing such issue. See attached Exhibit A for further information.

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

Dated this _____ day of _____ 20 ____

Name of Bidder: _____

Type of Organization: _____

Signed by: _____

Title of Signer: _____

Address of Bidder: _____

Taxpayer Identification No. of Bidder: _____

Telephone Number: _____

E-mail: _____

Contractor's License No(s): No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

Public Works Contractor Registration No.: _____

END OF DOCUMENT

Bid Clarification Addendum #3

Attachment B

Architect's Addendum #1

Oxnard HS



ARCHITECTS CLIENT FOCUSED. PASSION DRIVEN.

August 25, 2020

TO : All Bidders
FROM : Mark Graham, Architect, AIA, LEED™ GA, NOMA, Principal
PROJECT : Oxnard High School HVAC Improvements
1917000.41
SUBJECT : Addendum 1
DSA : 03-120526 / 56-H4

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

1. PROJECT MANUAL

1.1 SECTION 01 11 00 - SUMMARY OF WORK

- A. Replace DSA approved Specification Section 01 11 00 in its entirety with the attached revised Specification Section 01 11 00.

1.2 SECTION 05 51 33 - METAL LADDERS

- A. Replace DSA approved Specification Section 05 51 33 in its entirety with the attached revised Specification Section 05 51 33.

1.3 SECTION 08 31 00 - ACCESS DOORS AND FRAMES

- A. Item 3.3 INSTALLATION SCHEDULE, Item B:
 - 1. Delete Items 1, 2, 3, 4, 5, 6, and 7.
 - 2. Add Item 1 to read "Provide quantities as required to reach all needed levers, switches, and knobs for a complete operational system."

1.4 SECTION 23 72 00 - ENERGY RECOVERY DEVICES

- A. Replace DSA approved Specification Section 23 72 00 in its entirety with the attached revised Specification Section 23 72 00.

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1.5 SECTION 23 74 11 - PACKAGED ROOFTOP AIR CONDITIONING UNITS

- A. Replace DSA approved Specification Section 23 74 11 in its entirety with the attached revised Specification Section 23 74 11.

1.6 SECTION 23 81 26 - SPLIT SYSTEM AIR CONDITIONING UNITS

- A. Replace DSA approved Specification Section 23 81 26 in its entirety with the attached revised Specification Section 23 81 26.

1.7 SECTION 23 81 45 - VARIABLE REFRIGERANT FLOW HEAT PUMPS

- A. Replace DSA approved Specification Section 23 81 45 in its entirety with the attached revised Specification Section 23 81 45.

1.8 SECTION 32 31 19 - DECORATIVE METAL FENCES AND GATES

- A. Remove DSA approved Specification Section 32 31 19 from the bid documents in its entirety (There is no site work on this campus).

DRAWINGS

General Notes

- 1.9 Where ceiling tiles are called out to be removed and reinstalled, the contractor will remove the existing electrical devices from the ceiling tiles, but still keep them operational, and then reattach them to the new or old tiles when they reinstall the ceiling tiles.
- 1.10 For condensate lines that drain to exterior drywells, use Details 8/7.1, 7/MP4.4, and 8/MP4.4, typical.
- 1.11 For T-bar type ceilings that get completely replaced, see details on 9.2, 9.3, and 9.4 typical.
- 1.12 For bidding purposes, contractor shall supply five percent of new ceiling tiles for existing rooms where the tile has been removed and will be reinstalled. Use these tiles to replace damaged tiles, chipped tiles, missing tiles, or stained tiles. The five percent shall be based on the entire room, not the area being removed. If tiles are not used, turn over tiles to District at the end of the project. Have the Inspector of Record verify the tiles have been provided prior to use.
- 1.13 For rooms that have hard lid ceilings and where work is being performed, contractor shall remove and reinstall access panels at new locations to reach new mechanical and electrical devices in the attic space. Locations to be determined in field.

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- 1.14 No equipment of any kind, including: conduits, wires, plumbing pipes, duct work, and electrical boxes shall be placed within or pass through the elevator shaft or the Elevator Machine Rooms, typical. The only exception is if the Machine Room is receiving new work for that room.

Architectural

1.15 DRAWING A0.2 - DRAWING INDEX

- A. Replace DSA approved Drawing A0.2 in its entirety with the attached Drawing A0.2.

1. Added Architectural Drawing 10.1.

1.16 DRAWING AB3.0 - DEMO CEILING PLAN - BLDG B

A. LEGEND/NOTES

1. Revise "CURENLY" to "CURRENTLY" under Demo Type 2A note.
2. Revise "-/-" to "10/9.2" under Demo Type 4 note.
3. Add Note 3. "3. ROOM 120 BOYS CURRENTLY HAS GLUE UP TILES ON THE GYPSUM BOARD CEILING."
4. Add Note 4. "4. FOR ROOM 215 ,ONCE ALL EQUIPMENT IS REMOVED, CLEAN ALL WALLS, FLOOR, AND CEILING WITH TSP. PATCH ALL HOLES AND CRACKS, TEXTURE BACK WALLS AND CEILINGS TO MATCH EXISTING. PRIME AND PAINT ALL WALLS AND CEILINGS."

1.17 DRAWING AB4.1 - NEW ROOF PLAN - BLDG B

A. LEGEND

1. Revise "12/7.1" to "6/7.1".
2. Revise "13/S0.3" to "14/S0.3".
3. Change "RIGID" to "BATT".

1.18 DRAWING AC3.0 - DEMO FIRST FLOOR CEILING PLAN - BLDG C

A. LEGEND

1. Add text "REMOVE ALL ELECTRICAL DEVICES FROM TILES AS NEEDED TO REMOVE TILES AND REATTACH ALL DEVICES BACK ON TILES ONCE TILES ARE REINSTALLED. DO NOT DISCONNECT DEVICES TYPICAL." AFTER ...LIGHT FIXTURES TYPICAL.

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1.19 DRAWING AC3.1 - DEMO SECOND FLOOR CEILING PLAN - BLDG C

A. LEGEND

1. Add text "REMOVE ALL ELECTRICAL DEVICES FROM TILES AS NEEDED TO REMOVE TILES AND REATTACH ALL DEVICES BACK ON TILES ONCE TILES ARE REINSTALLED. DO NOT DISCONNECT DEVICES TYPICAL." AFTER "...LIGHT FIXTURES TYPICAL."

1.20 DRAWING AC3.2 - NEW FIRST FLOOR CEILING PLAN-BLDG C

A. LEGEND

1. Delete text "FOR BID PURPOSES PROVIDE 8 NEW TILES PER ROOM"

1.21 DRAWING AC4.0 - DEMO ROOF PLAN - BLDG C

- ### A.
- Replace DSA approved Drawing AC4.0 with in its entirety the attached revised Drawing AC4.0 (Revised hatch pattern and Legend to leave metal decking in place).

1.22 DRAWING AC4.1 -NEW ROOF PLAN-BLDG C

- ### A.
- Replace DSA approved Drawing AC4.1 in its entirety with the attached revised Drawing AC4.1.

1. Revised hatch pattern and Legend to leave metal decking in place.
2. Revise "13/S0.3" to "14/S0.3" in Legend.
3. Revised 12/7.1 to 6/7.1 in Legend.

1.23 DRAWING AE3.0 - DEMO FIRST FLOOR CEILING PLAN - BLDG E

A. LEGEND

1. Add text "REMOVE ALL ELECTRICAL DEVICES FROM TILES AS NEEDED TO REMOVE TILES AND REATTACH ALL DEVICES BACK ON TILES ONCE TILES ARE REINSTALLED. DO NOT DISCONNECT DEVICES TYPICAL." AFTER ...LIGHT FIXTURES TYPICAL.

1.24 DRAWING AE3.1 - DEMO FIRST FLOOR CEILING PLAN - BLDG E

A. LEGEND

1. Add text "REMOVE ALL ELECTRICAL DEVICES FROM TILES AS NEEDED TO REMOVE TILES AND REATTACH ALL DEVICES BACK ON TILES ONCE TILES ARE REINSTALLED. DO NOT DISCONNECT DEVICES TYPICAL." AFTER ...LIGHT FIXTURES TYPICAL.

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1.25 DRAWING AE4.0 - DEMO ROOF PLAN - BLDG E

- A. Replace DSA approved Drawing AE4.0 in its entirety with the attached revised Drawing AE4.0 (Revised hatch pattern and Legend to leave metal decking in place).

1.26 DRAWING AE4.1 - NEW ROOF PLAN-BLDG E

- A. Replace DSA approved Drawing AE4.1 in its entirety with the attached revised Drawing AE4.1 (Revised hatch pattern and Legend to leave metal decking in place. Revised "13/S0.3" to "14/S0.3" in Legend. Revised 12/7.1 to 6/7.1 in Legend).

1.27 DRAWING AF3.0 - DEMO CEILING PLAN - BLDG F

- A. LEGEND/NOTES
 - 1. Revise "CURENLY" to "CURRENTLY" under Demo Type 2A note.
 - 2. Revise "-/-" to "10/9.2" under Demo Type 4 note.

1.28 DRAWING AF4.1 - NEW ROOF PLAN-BLDG F

- A. LEGEND
 - 1. Revise "12/7.1" to "6/7.1".
 - 2. Revise "13/S0.3" to "14/S0.3".

1.29 DRAWING AG3.0 - DEMO CEILING PLAN-BLDG G

- A. Replace DSA approved Drawing AG3.0 in its entirety with the attached revised Drawing AG3.0.
 - 1. Replaced Legend.

1.30 DRAWING AG3.1 - NEW CEILING PLAN-BLDG G

- A. Replace DSA approved Drawing AG3.1 in its entirety with the attached revised Drawing AG3.1 (Updated duct work to match mechanical drawing. Updated notes in Legend).

1.31 DRAWING AG4.0 - DEMO ROOF PLAN - BLDG G

- A. REFERENCE NOTES
 - 1. Remove all reference notes (These are not shown on the plan).

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1.32 DRAWING AG4.1 - NEW ROOF PLAN

- A. Replace DSA approved Drawing AG4.1 in its entirety with the attached revised Drawing AG4.1. Revisions to the DSA approved plans include:
 - 1. Added new roof ladders to Detail 1
 - 2. Revised legend.
 - 3. Updated Detail 1 with new legends.

1.33 DRAWING AH3.0 - DEMO CEILING PLAN - BLDG H

- A. LEGEND
 - 1. Replace text "REMOVE EXISTING...SEE MECHANICAL DWG." With "REMOVE EXISTING SUPPLY/ RETURN, EXHAUST AIR GRILLE(S) AND PREP FOR NEW ACOUSTICAL DECK INFILL".

1.34 DRAWING AH3.1- NEW CEILING PLAN - BLDG H

- A. LEGEND
 - 1. Replace text "NEW ROOF...MATCH EXISTING." With "NEW ACOUSTICAL METAL DECK TO MATCH EXISTING IN SIZE AND SHAPE. INSTALL ACOUSTICAL BACKER MATERIAL IN DECK. PRIME, PAINT TO MATCH EXISTING. SEE 13/S0.3 FOR STRUCTURAL INFILL DETAIL".

1.35 DRAWING AH4.1 - NEW ROOF PLAN

- A. Replace DSA approved Drawing AH4.1 in its entirety with the attached revised Drawing AH4.1. Revisions to the DSA approved plans include:
 - 1. Added new roof ladders to Detail 1.
 - 2. Revised legend.
 - 3. Updated Detail 1 with new legends.

1.36 DRAWING AJ4.0-DEMO ROOF PLAN - BLDG J

- A. Replace DSA approved Drawing AJ4.0 in its entirety with the attached revised Drawing AJ4.0 (Additional demolition of roofing material was required. Revised Legend to reflect partial demolition of roofing material).

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1.37 DRAWING AJ4.1-NEW ROOF PLAN - BLDG J

- A. Replace DSA approved Drawing AJ4.1 in its entirety with the attached revised Drawing AJ4.1 (Revise "12/7.1" to "6/7.1" and "13/S0.3" to "14/S0.3". Revised roof hatch pattern, add new hatch pattern and new patch back description to legend).

1.38 DRAWING AK3.0-DEMO CEILING PLAN - BLDG K

- A. LEGEND
 - 1. Replace all of DEMO TYPE 4 text with "DEMO **TYPE 4**: REMOVE EXISTING GYPSUM BOARD FROM SUSPENDED METAL CEILING. SEE DETAIL 10,11/9.2 FOR EXISTING FRAMING CONDITION.
 - 2. Delete "DEMO TYPE 5" legend/hatch and notes in their entirety.

1.39 DRAWING AK3.1 - NEW CEILING PLAN - BLDG K

- A. LEGEND
 - 1. Delete text "NEW ROOF...PER -/-", and associated hatch pattern.

1.40 DRAWING AK4.0-DEMO ROOF PLAN -BLDG K

- A. Replace DSA approved Drawing AK4.0 in its entirety with the attached revised Drawing AK4.0 (Relocated package unit and added additional area for roof removal).

1.41 DRAWING AK4.1-NEW ROOF PLAN - BLDG K

- A. Replace DSA approved Drawing AK4.1 in its entirety with the attached revised Drawing AK4.1 (Relocated package unit and added additional area for roof replacement).

1.42 DRAWING AN3.1-DEMO AND NEW CEILING PLAN-BLDG N

- A. Detail 2: Revise "6/7.1" to "3/7.1"

1.43 DRAWING 7.1 - THERMAL AND MOISTURE PROTECTION

- A. Replace DSA approved Drawing 7.1 in its entirety with the attached revised Drawing 7.1 (Revised Detail 6 graphically, and fixed typos within notes).
- B. Added new Detail 9.

1.44 DRAWING 10.1 - ELEVATIONS AND LADDER DETAILS

- A. Add the attached new Drawing 10.1 in its entirety.

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Structural

1.45 DRAWING S0.1 - GENERAL NOTES

- A. Replace DSA approved Drawing S0.1 in its entirety with the attached revised Drawing S0.1.
- B. LUMBER NOTES
 - 1. Lined up joist table.

1.46 DRAWING S0.2 - DETAILS

- A. Replace DSA approved Drawing S0.2 in its entirety with the attached revised Drawing S0.2.
 - 1. DETAIL 12
 - a. Add text "SEE DETAIL 2/S0.3 FOR ALTERNATE HANGING MECHANICAL UNIT SUPPORT".
 - b. Added dimension to center of beam.
 - c. Added additional detail reference for top of brace support.
 - 2. DETAIL 14
 - a. Added new detail.
 - 3. DETAIL 18
 - a. Revised detail to make it easier to construct.
 - 4. DETAIL 19
 - a. Added max dimension.
 - 5. DETAIL 27
 - a. Revised detail reference.
 - 6. DETAIL 28
 - a. Revised detail to make it easier to construct.
 - 7. DETAIL 29
 - a. Revised detail to make it easier to construct.

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8. DETAIL 30
 - a. Revised max weight allowed.

1.47 DRAWING S0.3 - DETAILS

- A. Replace DSA approved Drawing S0.3 in its entirety with the attached revised Drawing S0.3.
 1. DETAIL 2
 - a. Revised detail to be more complete.
 2. DETAIL 3
 - a. Revised title "SEISMIC BRACE DETAILS FRAMING AT METAL DECK DIAPHRAGMS".
 - b. Added note to allow plates to be skewed up to 45 deg. max.
 3. DETAIL 13
 - a. Added max span of new deck.
 - b. Added note "REATTACH (E) DECK IF THE (E) PUDDLE WELDS ARE DAMAGED OR NON-EXISTENT."
 - c. Revised weld note "1'-6" ".
 - d. Revised note "(E) STEEL BEAM TO REMAIN OR (N) STEEL BEAM PER PLAN (W8 X 10 MIN.)."
 4. DETAIL 16
 - a. Changed existing B.N. to new B.N.
 5. DETAIL 17
 - a. Added dimensions to screws and lapped rafter.
 6. DETAIL 20
 - a. Revised to use new joists at new mechanical unit.
 - b. Added notes "(N) 2X JOISTS W/ SIMPSON 'U' HANGER."
 - c. Added dimension to lag screw.

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7. DETAIL 30

- a. Revised to use new joists at new mechanical unit.
- b. Added notes "(N) 2X JOISTS W/ SIMPSON 'U' HANGER."
- c. Added dimension to lag screw.

1.48 DRAWING S0.4 - DETAILS

- A. Replace DSA approved Drawing S0.4 in its entirety with the attached revised Drawing S0.4.

1. DETAIL 3

- a. Revised detail to decrease the max deck opening.
- b. Added note "(N) PENETRATIONS 1" SQ. OR SMALLER THAT ARE NOT THROUGH THE DECK WEB DO NOT NEED TO BE REINFORCED".
- c. Revised title "TYPICAL ROOF DECK OPENING DETAIL."

2. DETAIL 4

- a. Revised max weight to be combined max weight.

3. DETAIL 8

- a. Revised max weight to be combined max weight.

4. DETAIL 12

- a. Added notes "AND 25/S0.3".

5. DETAIL 13

- a. Added joists hangers callouts.

1.49 DRAWING S0.5 - DETAILS

- A. Replace DSA approved Drawing S0.5 in its entirety with the attached revised Drawing S0.5.

1. DETAIL 10

- a. Added title to detail "TYPICAL VERTICAL SOFFIT HANGER".

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2. DETAIL 11
 - a. New detail for seismic bracing anchors to concrete over metal deck.
3. DETAIL 13
 - a. New detail for new joists lapped to existing joists need existing wall.
4. DETAIL 14
 - a. New detail for "TYPICAL PIPE HANGER".
5. DETAIL 15
 - a. New detail for "TYPICAL PIPE HANGER".
6. DETAIL 20
 - a. New detail for mechanical curb attachment.

1.50 DRAWING S2.1 - BUILDING B ROOF FRAMING PLAN

- A. Replace DSA approved Drawing S2.1 in its entirety with the attached revised Drawing S2.1.
- B. ROOF FRAMING NOTES
 1. Added notes "ALL HUNG MEP SHALL FOLLOW DETAILS 2/S0.2 AND 14/S0.2."
- C. ROOF FRAMING PLAN
 1. Added new detail reference to existing detail.
 2. Added new notes to install new joists to match details.

1.51 DRAWING S2.2 - BUILDING C SECOND FLOOR FRAMING PLAN

- A. Replace DSA approved Drawing S2.2 in its entirety with the attached revised Drawing S2.2.
- B. SECOND FLOOR FRAMING NOTES
 1. Added notes "ALL HUNG MEP SHALL FOLLOW DETAILS 12/S0.2 AND 2/S0.3."
- C. SECOND FLOOR FRAMING PLAN
 1. Showed locations of additional mechanical equipment.

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1.52 DRAWING S2.3 - BUILDING C ROOF FRAMING PLAN

- A. Replace DSA approved Drawing S2.3 in its entirety with the attached revised Drawing S2.3.
- B. ROOF FRAMING NOTES
 - 1. Added notes "ALL HUNG MEP SHALL FOLLOW DETAILS 12/S0.2 AND 2/S0.3."
- C. ROOF FRAMING PLAN
 - 1. Showed locations of additional mechanical equipment.
 - 2. Called out members supporting new openings.
 - 3. Revised mechanical weight to indicate the "COMBINED" weight of all the units in a row.
 - 4. Revised detail references to match the correct detail.

1.53 DRAWING S2.4 - BUILDING E SECOND FLOOR FRAMING PLAN

- A. Replace DSA approved Drawing S2.4 in its entirety with the attached revised Drawing S2.4.
- B. SECOND FLOOR FRAMING NOTES
 - 1. Added notes "ALL HUNG MEP SHALL FOLLOW DETAILS 12/S0.2 AND 2/S0.3."
- C. SECOND FLOOR FRAMING PLAN
 - 1. Showed locations of additional mechanical equipment.

1.54 DRAWING S2.5 - BUILDING E ROOF FRAMING PLAN

- A. Replace DSA approved Drawing S2.5 in its entirety with the attached revised Drawing S2.5.
- B. ROOF FRAMING NOTES
 - 1. Added notes "ALL HUNG MEP SHALL FOLLOW DETAILS 12/S0.2 AND 2/S0.3".
- C. ROOF FRAMING PLAN
 - 1. Showed locations of additional mechanical equipment.
 - 2. Called out members supporting new openings.

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3. Revised mechanical weight to indicate the "COMBINED" weight of all the units in a row.
4. Added detail references.

1.55 DRAWING S2.6 - BUILDING F ROOF FRAMING PLAN

- A. Replace DSA approved Drawing S2.6 in its entirety with the attached revised Drawing S2.6.
- B. ROOF FRAMING NOTES
 1. Added notes "ALL HUNG MEP SHALL FOLLOW DETAILS 2/S0.2 AND 14/S0.2."
- C. ROOF FRAMING PLAN
 1. Added new detail reference to existing detail.
 2. Added new notes to install new joists to match details.
 3. Referenced new hung unit between Grids 4-6/B-C.

1.56 DRAWING S2.7 - BUILDING G ROOF FRAMING DEMO PLAN

- A. Replace DSA approved Drawing S2.7 in its entirety with the attached revised Drawing S2.7.
- B. ROOF FRAMING NOTES
 1. Revised existing roof deck notes.
- C. ROOF FRAMING PLAN
 1. Revised existing deck callout.
 2. Clarified "(E) MECH UNIT TO BE REMOVED".

1.57 DRAWING S2.8 - BUILDING G ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.8 in its entirety with the attached revised Drawing S2.8.
- B. ROOF FRAMING PLAN
 1. Removed note for unit to be demolished.
 2. Added typical deck infill at demolished mech unit.
 3. Revised deck callout.

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4. Revised detail reference to reference new detail.
5. Added missing beam size.

1.58 DRAWING S2.9 - BUILDING H ROOF FRAMING DEMO PLAN

- A. Replace DSA approved Drawing S2.9 in its entirety with the attached revised Drawing S2.9.
- B. ROOF FRAMING PLAN
 1. Moved text to avoid overlapping other text.
 2. Added "TO REMAIN" note on diagonal truss braces.

1.59 DRAWING S2.10 - BUILDING H ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.10 in its entirety with the attached revised Drawing S2.10.
- B. ROOF FRAMING REMODEL NOTES
 1. Added detail reference to Note 5.
- C. ROOF FRAMING PLAN
 1. Revised roof note references.

1.60 DRAWING S2.11 - BUILDING J ROOF FRAMING DEMO PLAN

- A. Replace DSA approved Drawing S2.11 in its entirety with the attached revised Drawing S2.11.
- B. ROOF FRAMING DEMO PLAN
 1. Moved edge of demolished plywood to cover the edge of the mechanical unit.
 2. Adjust mechanical unit to not overlap the existing beam.

1.61 DRAWING S2.12 - BUILDING J ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.12 in its entirety with the attached revised Drawing S2.12.
- B. ROOF FRAMING REMODEL NOTES
 1. Added note "(N) PLYWOOD ROOF INFILL PER 14/S0.3".

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C. ROOF FRAMING PLAN

1. Added additional new hung mech unit.
2. Adjust mechanical unit to not overlap the existing beam.
3. Using new joists at new mechanical units to match revised details.
4. Moved overlapping notes to not interfere with other notes.

1.62 DRAWING S2.13 - BUILDING K ROOF FRAMING DEMO PLAN

A. Replace DSA approved Drawing S2.13 in its entirety with the attached revised Drawing S2.13.

B. ROOF FRAMING DEMO NOTES

1. Revised drawing reference.

C. ROOF FRAMING DEMO PLAN

1. Revised mechanical units to be removed.
2. Moved edge of demolished plywood to cover the edge of the mechanical unit.
3. Moved edge of demolished plywood to cover the full length of roof joist.

1.63 DRAWING S2.14 - BUILDING K ROOF FRAMING REMODEL PLAN

A. Replace DSA approved Drawing S2.14 in its entirety with the attached revised Drawing S2.14.

B. ROOF FRAMING REMODEL NOTES

1. Added note "(N) PLYWOOD ROOF INFILL PER 14/S0.3".

C. ROOF FRAMING PLAN

1. Added additional new hung mechanical units.
2. Added detail references at end of joists.
3. Added "MIN." to quantity of joists required for platform.
4. Revised mechanical weights.

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1.64 DRAWING S2.15 - BUILDING N ROOF FRAMING PLAN

- A. Replace DSA approved Drawing S2.15 in its entirety with the attached revised Drawing S2.15.
- B. ROOF FRAMING PLAN
 - 1. Revised mech unit weights.

Mechanical

1.65 DRAWING MP0.2 - SCHEDULES

- A. VRF MODULAR OUTDOOR UNIT SCHEDULE
 - 1. Added Note 8: "PROVIDE MARINE COATING PER SPECIFICATION 23 81 45, SECTION 2.4."
 - 2. Added text "6, 7, AND 8" to all equipment notes.
- B. PACKAGED ROOFTOP UNIT SCHEDULE - GAS/DX
 - 1. Added Note 10: "PROVIDE MARINE COATING PER SPECIFICATION 23 74 11, SECTION 2.14."
 - 2. Added text "4, 9, AND 10" to all equipment notes except AC-J4 and AC-J5.
 - 3. Change text "5" to "4, 5, 9, AND 10" to equipment notes of AC-J4 and AC-J5.
- C. DEDICATED OUTDOOR AIR UNIT SCHEDULE
 - 1. Added Note 8: "PROVIDE MARINE COATING PER SPECIFICATION 23 81 45, SECTION 2.4."
 - 2. Added Note 9: "COMPLETE WITH HOT GAS REHEAT."
 - 3. Added text "8 AND 9" to DOAS-H1, DOAS-H2, and DOAS-H3 equipment notes.
 - 4. Added text "4 AND 8" to DOAS-K1 equipment note.
 - 5. Added text "6 AND 8" to DOAS-K2 equipment note.
 - 6. Added text "5 AND 8" to DOAS-K3 equipment note.

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1.66 DRAWING MP0.3 - SCHEDULES

A. SPLIT SYSTEM UNIT SCHEDULE

- a. Added Note 4: "PROVIDE MARINE COATING PER SPECIFICATION 23 81 26, SECTION 2.1K."
- b. Group the indoor unit columns and label "INDOOR UNIT".
- c. Added text ", AND 4" AFTER "... 3" to all equipment notes.
- d. Revised text "38MAQB18R-3" to "40MBCQ18---3" on indoor unit model of FC-N1.

B. VRF INDOOR UNIT SCHEDULE

1. Added Note 9: "COMPLETE WITH CONDENSATE OVERFLOW FLOAT SWITCH AND PROVIDE INDOOR UNIT SHUTDOWN UPON OVERFLOW DETECTION."
2. Added text ", 9" AFTER "8" to all equipment notes.

1.67 DRAWING MPB2.0 - BUILDING B DEMOLITION FLOOR PLAN

A. DEMOLITION KEYNOTES

1. Added text "IF BOLTS CANNOT BE REMOVED, CUT ALL BOLTS FLUSH TO CONCRETE AND PROVIDE A SMOOTH FINISH." after existing text "... APPURTENANCES." in Note 16.

1.68 DRAWING MPB2.1 - BUILDING B REMODEL FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 10: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.69 DRAWING MPC2.1 - BUILDING C DEMOLITION 2ND FLOOR PLAN

A. DEMOLITION KEYNOTES

1. Added text "IF BOLTS CANNOT BE REMOVED, CUT ALL BOLTS FLUSH TO CONCRETE AND PROVIDE A SMOOTH FINISH." after existing text "... APPURTENANCES." in Note 22.

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1.70 DRAWING MPC2.4 - BUILDING C REMODEL 2ND FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 11: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.71 DRAWING MPC3.1 - BUILDING C REMODEL ROOF PLAN

A. REMODEL GENERAL NOTES

1. Added Note 6: "CONNECT (E) EXHAUST FANS AND (E) SUPPLY FANS TO EMS. REFER TO 11/MP4.4 FOR WIRING DIAGRAM."

1.72 DRAWING MPE2.1 - BUILDING E DEMOLITION 2ND FLOOR PLAN

A. DEMOLITION KEYNOTES

1. Added text "IF BOLTS CANNOT BE REMOVED, CUT ALL BOLTS FLUSH TO CONCRETE AND PROVIDE A SMOOTH FINISH." after existing text "... APPURTENANCES." Note 29.

1.73 DRAWING MPE2.4 - BUILDING E REMODEL 2ND FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 7: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.74 DRAWING MPE3.1 - BUILDING E REMODEL ROOF PLAN

A. REMODEL GENERAL NOTES

1. Added Note 6: "CONNECT (E) EXHAUST FANS AND (E) SUPPLY FANS TO EMS. REFER TO 11/MP4.4 FOR WIRING DIAGRAM."

1.75 DRAWING MPF2.0 - BUILDING F DEMOLITION FLOOR PLAN

A. DEMOLITION KEYNOTES

1. Added text "IF BOLTS CANNOT BE REMOVED, CUT ALL BOLTS FLUSH TO CONCRETE AND PROVIDE A SMOOTH FINISH." after existing text "... APPURTENANCES." In note 13.

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1.76 DRAWING MPF2.1 - BUILDING F REMODEL FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 10: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

B. BUILDING F REMODEL FLOOR PLAN

1. Added 8"Ø outside air vent to the FC-F1 and vent through the roof to roof cap.

1.77 DRAWING MPF3.1 - BUILDING F REMODEL ROOF PLAN

A. BUILDING F REMODEL ROOF PLAN

1. Added 8"Ø outside air vent with roof cap going down through the roof.

1.78 DRAWING MPG2.2 - BUILDING G REMODEL FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 11: "PAINT EXPOSED DUCT AND PIPING TO MATCH EXISTING TRUSSES AND SURROUNDING AREA."
2. Added Note 12: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.79 DRAWING MPH2.2 - BUILDING H REMODEL FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 10: "PAINT EXPOSED DUCT AND PIPING TO MATCH EXISTING TRUSSES AND SURROUNDING AREA."
2. Added Note 11: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.80 DRAWING MPJ2.2 - BUILDING J REMODEL FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 14: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

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1.81 DRAWING MPK2.0 - BUILDING K DEMOLITION FLOOR PLAN

A. Replace DSA approved Drawing MPK2.0 in its entirety with the attached revised Drawing MPK2.0.

1. BUILDING K DEMOLITION FLOOR PLAN

a. Demolish gas line further plan north as shown in cloud.

1.82 DRAWING MPK2.1 - BUILDING K REMODEL FLOOR PLAN

A. Replace DSA approved Drawing MPK2.1 in its entirety with the attached revised Drawing MPK2.1.

1. REMODEL GENERAL NOTES

a. Added Note 14: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

B. BUILDING K REMODEL FLOOR PLAN

1. Move AC-K2's duct drops more to the plan north as shown in cloud.

1.83 DRAWING MPK3.1 - BUILDING K REMODEL ROOF PLAN

A. Replace DSA approved Drawing MPK3.1 in its entirety with the attached revised Drawing MPK3.1.

1. BUILDING K REMODEL ROOF PLAN

a. Move AC-K2's location north.

1.84 DRAWING MP4.1 - DETAILS

A. Replace DSA approved Drawing MP4.1 in its entirety with the attached revised Drawing MP4.1.

1. DETAIL 8

a. Revised "SINGLE PLY ROOF (SEE ARCH'S)" TO "BUILT-UP ROOFING (SEE ARCH'S)."

2. DETAIL 9

a. Revised "SINGLE PLY ROOF (SEE ARCH'S)" TO "BUILT-UP ROOFING (SEE ARCH'S)."

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1.85 DRAWING MP4.3 - DETAILS

- A. Replace DSA approved Drawing MP4.3 in its entirety with the attached revised Drawing MP4.3.
 - 1. DETAIL 10
 - a. Revised split system control wiring diagram.
 - 2. DETAIL 12
 - a. Revised multiport controller wiring diagram.

1.86 DRAWING MP4.4 - DETAILS

- A. Replace DSA approved Drawing MP4.4 in its entirety with the attached revised Drawing MP4.4.
 - 1. DETAIL 11
 - a. Added "EXHAUST FAN/SUPPLY FAN CONTROL WIRING DIAGRAM" in its entirety.

1.87 DRAWING MP5.3 - CONTROLS

- A. Replace DSA approved Drawing MP5.3 in its entirety with the attached revised Drawing MP5.3.
 - 1. DETAIL 3
 - a. Modified control wiring diagram of "TYPICAL EXHAUST FAN CONTROL PANEL DETAIL" to include start/stop at exhaust fans and supply fans.

Electrical

1.88 DRAWING E0.2 - SINGLE LINE DIAGRAM

- A. Replace Drawing E0.2 in its entirety with the attached Drawing E0.2.
 - 1. KEYED NOTES
 - a. Added existing 'EDB' switchboard and downstream equipment for clarification.

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1.89 DRAWING E0.3 - PANEL SCHEDULES

A. Replace Drawing E0.3 in its entirety with the attached Drawing E0.3.

1. KEYED NOTES

- a. Added existing main circuit breaker information and 'fed from' clarification.

1.90 DRAWING E0.4 - PANEL SCHEDULES

A. Replace Drawing E0.4 in its entirety with the attached Drawing E0.4.

1. KEYED NOTES

- a. Added existing main circuit breaker information and 'fed from' clarification.

1.91 DRAWING E0.5 - PANEL SCHEDULES

A. Replace Drawing E0.5 in its entirety with the attached Drawing E0.5.

1. KEYED NOTES

- a. Added existing main circuit breaker information and 'fed from' clarification.

1.92 DRAWING E0.6 - PANEL SCHEDULES

A. Replace Drawing E0.6 in its entirety with the attached Drawing E0.6.

1. KEYED NOTES

- a. Added existing main circuit breaker information and 'fed from' clarification.

1.93 DRAWING EB2.1 - BLDG B REMODEL FLOOR PLAN

A. Replace Drawing EB2.1 in its entirety with attached Drawing EB2.1.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, 3, and 4 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.94 DRAWING EB3.1 - BLDG B REMODEL ROOF PLAN

A. Replace Drawing EB3.1 in its entirety with the attached Drawing EB3.1.

1. KEYED NOTES

- a. Added Detail 2, CONDUIT ROOF PENETRATION.
- b. Added demolition clarification.
- c. Added General Notes 1, 2, and 3.
- d. Added Keyed Notes 2 and 3.

1.95 DRAWING EC2.2 - BLDG C REMODEL 1ST FLOOR PLAN

A. Replace Drawing EC2.2 in its entirety with attached Drawing EC2.2.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, 3, 4, 5, 6, 7, and 8 pertaining to removal and re-installation of acoustical ceiling tiles.

1.96 DRAWING EC2.3 - BLDG C REMODEL 1ST FLOOR PLAN

A. Replace Drawing EC2.3 in its entirety with attached Drawing EC2.3.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, 3, 4, 5, 6, 7, and 8 pertaining to removal and re-installation of acoustical ceiling tiles.

1.97 DRAWING EC3.1 - BLDG C REMODEL ROOF PLAN

A. Replace Drawing EC3.1 in its entirety with the attached Drawing EC3.1.

1. KEYED NOTES

- a. Added WP/GFI receptacles.
- b. Added General Notes 1, 2, and 3

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1.98 DRAWING EE2.2 - BLDG E REMODEL 1ST FLOOR PLAN

A. Replace Drawing EE2.2 in its entirety with attached Drawing EE2.2.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, 3, 4, 5, 6, 7, and 8 pertaining to removal and re-installation of acoustical ceiling tiles.

1.99 DRAWING EE2.3 - BLDG E REMODEL 2ND FLOOR PLAN

A. Replace Drawing EE2.3 in its entirety with attached Drawing EE2.3.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, 3, 4, 5, 6, and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.100 DRAWING EE3.1 - BLDG E REMODEL ROOF PLAN

A. Replace Drawing EE3.1 in its entirety with the attached Drawing EE3.1.

1. KEYED NOTES

- a. Added WP/GFI receptacles.
- b. Added Keyed Note 2
- c. Added General Notes 1, 2, and 3.

1.101 DRAWING EF2.1 - BLDG F REMODEL FLOOR PLAN

A. Replace Drawing EF2.1 in its entirety with attached Drawing EF2.1.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, 3, 4, 5, and 6 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.102 DRAWING EF3.1 - BLDG F REMODEL ROOF PLAN

A. Replace Drawing EF3.1 in its entirety with the attached Drawing EF3.1.

1. KEYED NOTES

- a. Added Keyed Notes 4, 5, and 6.
- b. Added General Notes 1, 2, and 3.

1.103 DRAWING EG2.2 - BLDG G REMODEL FLOOR PLAN

A. Replace Drawing EG2.2 in its entirety with the attached Drawing EG2.2.

1. KEYED NOTES

- a. Added Keyed Note 2.
- b. Added General Note 1.

1.104 DRAWING EG3.1 - BLDG F REMODEL ROOF PLAN

A. Replace Drawing EG3.1 in its entirety with the attached Drawing EG3.1.

1. KEYED NOTES

- a. Added Keyed Notes 2 and 3.
- b. Added General Notes 1, 2, and 3.
- c. Added Panelboard detail.

1.105 DRAWING EH2.2 - BLDG H REMODEL FLOOR PLAN

A. Replace Drawing EH2.2 in its entirety with attached Drawing EH2.2.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, and 3 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.106 DRAWING EH3.1 - BLDG H REMODEL ROOF PLAN

A. Replace Drawing EH3.1 in its entirety with the attached Drawing EH3.1.

1. KEYED NOTES

- a. Added Keyed Notes 2 and 3.
- b. Added General Notes 1, 2, and 3.

1.107 DRAWING EJ2.2 - BLDG J REMODEL FLOOR PLAN

A. Replace Drawing EJ2.2 in its entirety with attached Drawing EJ2.2.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, 3, 4, 5, 6, 7, 8, and 9 pertaining to removal and re-installation of acoustical ceiling tiles.

1.108 DRAWING EJ3.1 - BLDG J REMODEL ROOF PLAN

A. Replace Drawing EJ3.1 in its entirety with the attached Drawing EJ3.1.

1. KEYED NOTES

- a. Added Key Notes 2.
- b. Added General Notes 1, 2, and 3.

1.109 DRAWING EK2.1 - BLDG K REMODEL FLOOR PLAN

A. Replace Drawing EK2.1 in its entirety with attached Drawing EK2.1.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, 3, 4, 5, 6, 7, and 8 pertaining to removal and re-installation of acoustical ceiling tiles.

1.110 DRAWING EK3.1 - BLDG K REMODEL ROOF PLAN

A. Replace Drawing EK3.1 in its entirety with the attached Drawing EK3.1.

1. KEYED NOTES

- a. Added Keyed Notes 2, 3, and 4.
- b. Added General Notes 1, 2, and 3.

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1.111 DRAWING EN2.1 - BLDG N REMODEL FLOOR PLAN

- A. Replace Drawing EN2.1 in its entirety with the attached Drawing EN2.1.
 - 1. KEYED NOTES
 - a. Added Keyed Notes 1, 2, and 3.
 - b. Added General Notes 1, 2, and 3.

Fire

1.112 DRAWING FA0.1 - COVERSHEET

- A. Replace Drawing FA0.1 in its entirety with attached Drawing FA0.1.
 - 1. FIRE ALARM SYMBOL LIST
 - a. Replaced the CO detector manufacturer, part no., and CSFM Listing.

1.113 DRAWING FA1.1 - SITE PLAN

- A. Replace Drawing FA1.1 in its entirety with attached Drawing FA1.1.
 - 1. Added FA conduit routing to plan.
 - a. Added Keyed Note 3.

1.114 DRAWING FA3.1 - DETAILS

- A. Replace Drawing FA3.1 in its entirety with attached Drawing FA3.1.
 - 1. Added DETAIL 5.

1.115 DRAWING FAB2.1 - BLDG B REMODEL FLOOR PLAN

- A. Replace Drawing FAB2.1 in its entirety with attached Drawing FAB2.1.
 - 1. KEYED NOTES
 - a. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.116 DRAWING FAC2.1 - BLDG C REMODEL 2ND FLOOR PLAN

- A. Replace Drawing FAC2.1 in its entirety with attached Drawing FAC2.1.
 - 1. KEYED NOTES
 - a. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.117 DRAWING FAC2.2 - BLDG C REMODEL 2ND FLOOR PLAN

- A. Replace Drawing FAC2.2 in its entirety with attached Drawing FAC2.2.
 - 1. KEYED NOTES
 - a. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.118 DRAWING FAE2.1 - BLDG E REMODEL 1ST FLOOR PLAN

- A. Replace Drawing FAE2.1 in its entirety with attached Drawing FAE2.1.
 - 1. KEYED NOTES
 - a. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.119 DRAWING FAE2.2 - BLDG E REMODEL 2ND FLOOR PLAN

- A. Replace Drawing FAE2.2 in its entirety with attached Drawing FAE2.2.
 - 1. KEYED NOTES
 - a. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.120 DRAWING FAF2.1 - BLDG F REMODEL FLOOR PLAN

- A. Replace Drawing FAF2.1 in its entirety with attached Drawing FAF2.1.
 - 1. KEYED NOTES
 - a. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.121 DRAWING FAH2.1 - BLDG H REMODEL FLOOR PLAN

A. Replace Drawing FAH2.1 in its entirety with attached Drawing FAH2.1.

1. KEYED NOTES

- a. Added Keyed Notes 1, 2, and 3 pertaining to removal and re-installation of acoustical ceiling tiles.

1.122 DRAWING FAJ2.1 - BLDG J REMODEL FLOOR PLAN

A. Replace Drawing FAJ2.1 in its entirety with attached Drawing FAJ2.1.

1. KEYED NOTES

- a. Added Keyed Notes 8 and 9 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.123 DRAWING FAK2.1 - BLDG K REMODEL FLOOR PLAN

A. Replace Drawing FAK2.1 in its entirety with attached Drawing FAK2.1.

1. KEYED NOTES

- a. Added Keyed Notes 7 and 8 pertaining to removal and re-installation of acoustical ceiling tiles.

END OF ADDENDUM 1

Submitted by,



MARK GRAHAM
Architect, AIA
LEED™ GA
NOMA
Principal



MG:SJ:DMH:hb/P41917000x1-add

Attachments: Specifications:

01 11 00 - Summary of Work
05 51 33 - Metal Ladders
23 72 00 - Energy Recovery Devices
23 74 11 - Packaged Rooftop Air Conditioning Units
23 81 26 - Split System Air Conditioning Units
23 81 45 - Variable Refrigerant Flow Heat Pumps
Drawings: A0.2, AC4.0, AC4.1, AE4.0, AE4.1, AG3.0, AG3.1, AG4.1, AH4.1, AJ4.0, AJ4.1, AK4.0, AK4.1, 7.1,10.1, S0.1, S0.2, S0.3, S0.4, S0.5, S2.1, S2.2, S2.3, S2.4, S2.5, S2.6, S2.7, S2.8, S2.9, S2.10, S2.11, S2.12, S2.13, S2.14, S2.15, MPK2.0, MPK2.1, MPK3.1, MP4.1, MP4.3, MP4.4, MP5.3, E0.2, E0.3, E0.4, E0.5, E0.6, EB2.1, EB3.1, EC2.2, EC2.3, EC3.1, EE2.2, EE2.3, EE3.1, EF2.1, EF3.1, EG2.2, EG3.1, EH2.2, EH3.1, EJ2.2, EJ3.1, EK2.1, EK3.1, EN2.1, FA0.1, FA1.1, FA3.1, FAB2.1, FAC2.1, FAC2.2, FAE2.1, FAE2.2, FAF2.1, FAH2.1, FAJ2.1, FAK2.1

SECTION 01 11 00

SUMMARY OF WORK

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Work Included.
- B. Work under separate contracts.
- C. Work by Owner.
- D. Owner furnished products.
- E. Contractor use of site and premises.
- F. Work Sequence.
- G. Owner occupancy.
- H. Work restrictions.

1.2 WORK INCLUDED

- A. Summary of Work for Oxnard High School.

The project is an addition of HVAC units to an existing campus. Old heating and ventilation units will be removed. Demolition of existing mechanical items including boilers, piping, Reznor units, roofing, roof curbs, ceilings, walls, floors, and all items as shown in the contract documents shall be part of this project. The below list is not all inclusive but it provides an overview of this project.

- B. Building A: NIC
- C. Buildings B and F: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and ceilings as shown on plans. Remove suspended gypsum board ceilings as shown and replace with new suspended ceiling. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back all batt insulation to match existing.
- D. Buildings C and E: Remove existing heating and ventilation units on roof and replace with new curbs and Variable Refrigerant Flow condensing units. Remove boiler from roof. Remove all existing supports on parapet walls, and patch back walls with similar material. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Remove existing boiler piping system throughout. Add new VRF piping and fan coils to all spaces shown. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing at floor and roof locations.
- E. Building D: NIC
- F. Building G: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Remove all interior heating elements in gymnasium, and replace with new duct work as shown. Connect into existing ductwork in soffit of weight room and patch back gypsum board. Add new thermostats and devices to fire alarm as shown. Provide new roof ladder from one roof to another.

- G. Building H: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Remove all interior heating elements in gymnasium, and replace with new duct work as shown. Add new thermostats and devices to fire alarm as shown. Provide new roof ladder from one roof to another.
- H. Building J: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing.
- I. Building K: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units and VRF condensers. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing. Provide new site concrete for new condensers. Provide exterior wall mounted pipes into building. Provide fence and gate enclosure.
- J. Building N: Remove existing heating and ventilation in the coaches office. Install new cassette type split system in ceiling. Patch back roof. Add new structural members to support unit. Add new condensate line to nearby sink. Add new thermostats and devices as shown. Rework existing electrical conduits and panels as shown.
- K. General notes: All roofs shall receive new convenience outlets, hose bibs as shown on plans. Buildings B-J will require spray-on fire proofing of existing primary members, roof decking, and floor beams only at locations where patching touch up is required. Painting will be required of all new exposed duct work, exposed electrical conduits, modified drywall openings, access panels, and all other areas that get affected by modernization work. Reworking of gypsum board, cementitious backer board, ceramic and porcelain tile, FRP, and any other material will be required when running condensate lines down the walls. Similar for new thermostats. All pipe and conduit penetrations through floors, walls, roofs shall be fire protected with minimum 2 hour rated fire safing/caulking products.
- L. Construct the work under a single lump sum contract.

1.3 WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract. Coordinate the Work of this Contract with work performed under separate contracts.

1.4 CONTRACTOR USE OF SITE AND PREMISES

- A. Limit use of site and premises to allow:
 - 1. Owner occupancy.
 - 2. Use of site and premises by public, students and teachers.

1.5 WORK SEQUENCE

- A. See the attached sheet "work sequence" on Page 3 of this section for phasing of this project.

1.6 OWNER OCCUPANCY

- A. Full Owner Occupancy: Owner will occupy entire site and premises during entire construction period for conduct of his normal operation.

- B. Partial Owner Occupancy: Owner will occupy the entire site and premises during entire construction period, with the exception of areas under construction.
- C. Owner Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed areas of building, before Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and partial occupancy shall not constitute acceptance of the total Work.
- D. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied before Owner occupancy.
- E. Before partial Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of building.
- F. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of building.
- G. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage.
- H. Perform the Work so as not to interfere with Owner's day-to-day operations.
- I. Maintain existing exits, unless otherwise indicated.
- J. Provide not less than 72 hours notice to Owner of activities that will affect Owner's operations.

1.7 WORK RESTRICTIONS

- A. On-Site Work Hours: Work shall be generally performed during normal business working hours, Monday through Friday, except as otherwise indicated or required to conform to construction schedule and labor codes.
 - 1. Weekend Hours: 7:00 a.m. to 11:00 p.m..
 - 2. Early Morning Hours: 6:00 a.m. to 7:30 a.m.
 - 3. Hours for Utility Shutdowns: Weekends.
 - 4. Hours for Noisy Operations: Coordinate with Owner.
- B. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted to do so and then only after arranging to provide temporary utility services according to requirements indicated.
 - 1. Notify Architect not less than 5 days in advance of proposed utility interruptions. Do not proceed with utility interruptions without Architect's permission.

- 1.8 See attached photos of existing roofs and interior photos for areas that were not accessible during job walks. See Pages 5 through 33 of this section.

2. PART 2 PRODUCTS

Not Used

3. PART 3 EXECUTION

Not Used

END OF SECTION

WORK SEQUENCE

Construction Start Date 10/1/2020 and Ending 12/1/2022

- Phase #1 Building B Nov 2020 thru March 2021
- Phase #2 Building C Upper Floor March 2021 thru June 2021
- Phase #3 Building C Lower Floor & Building K June 2021 thru Nov. 2021
- Phase #4 Building F Nov. 2021 thru Feb. 2022
- Phase #5 Building E Upper Floor Feb. 2022 thru June 2022
- Phase #6 Building E Lower Floor, Bldg. J & H June 2022 thru October 2022
- Phase #7 Buildings G October 2022 thru Feb. 2023, "Some Carry Over Work , Fire and HVAC Controls."

Second Laydown area

Contractors Designated Path of Travel

Contractor Laydown Yard

DISPERSAL AREA
CALCULATION
TOTAL AREA REQUIRED:
2.5 SF x 10,000 SF
TOTAL AREA PROVIDED:
100 x 100 = 10,000 SF
15,000 S.F. - 15,000 S.F.

DISPERSAL AREA
(E) PB A#03-108851
(E) PB A#03-10885
(E) PB A#03-10889

(E) BLDG. H A#56948

(E) BLDG. G A#56948

(E) BLDG. F A#56948

(E) BLDG. E A#56948

(E) BLDG. D A#56948

(E) BLDG. J A#56948

(E) BLDG. K A#56948

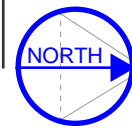
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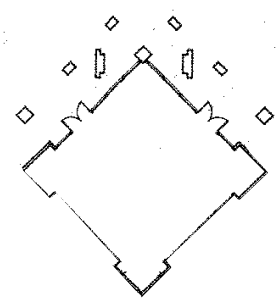
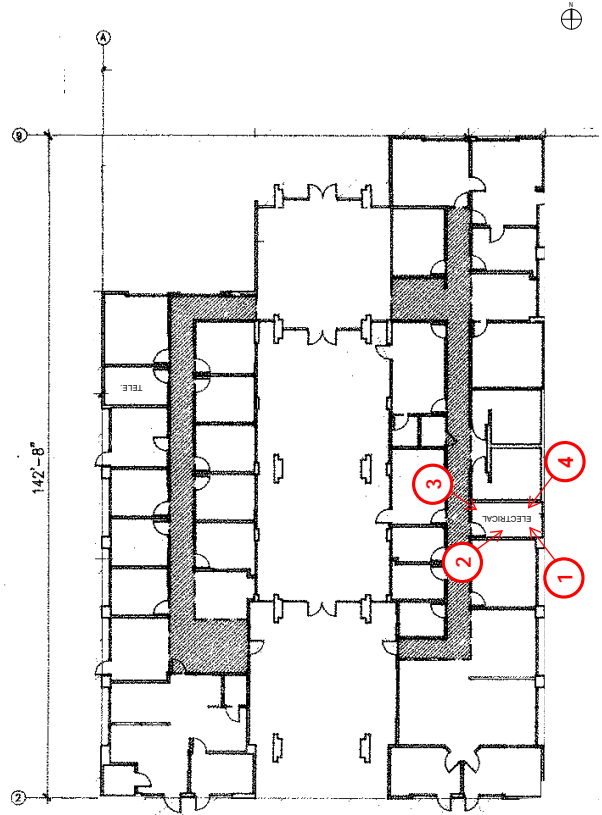
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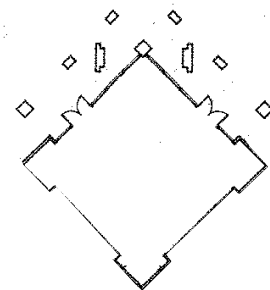
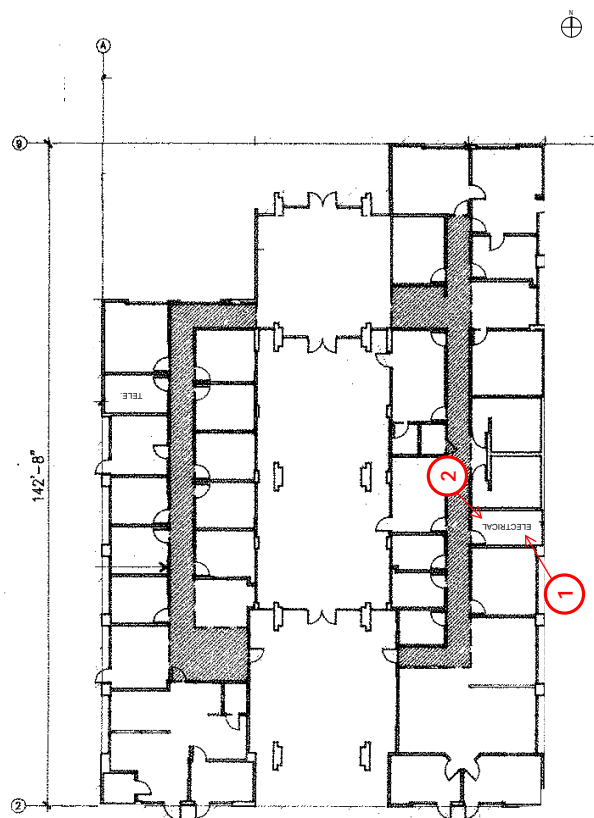
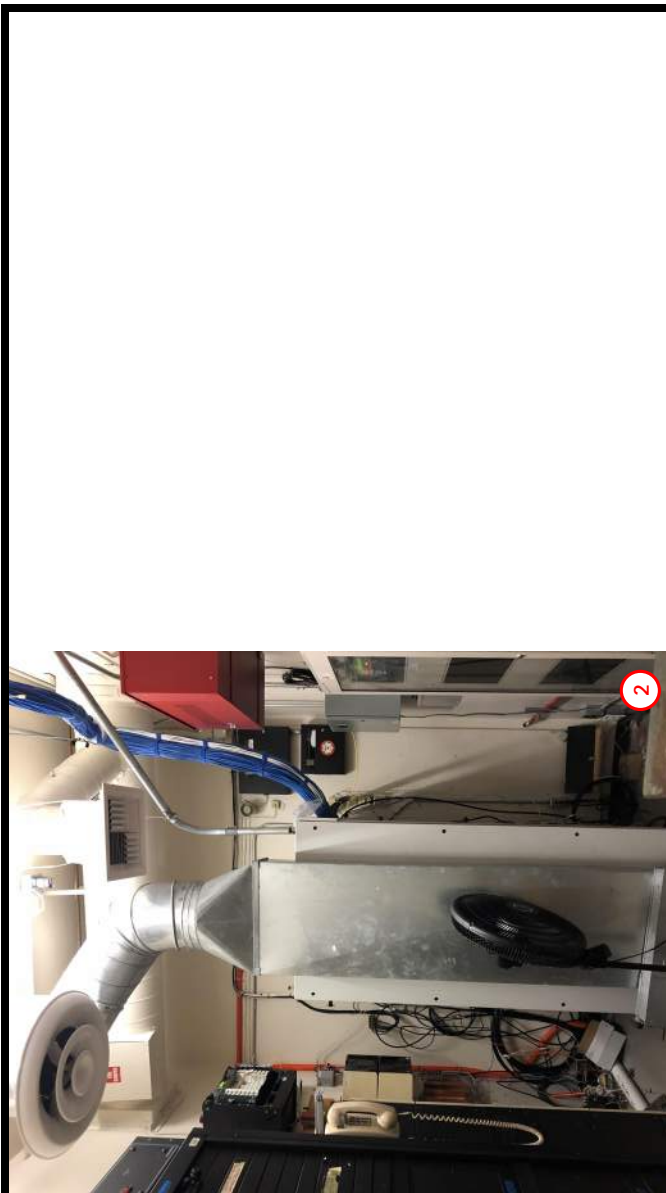
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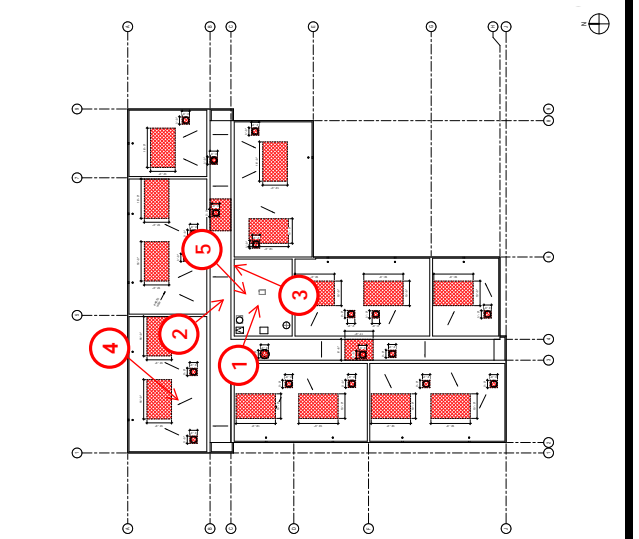
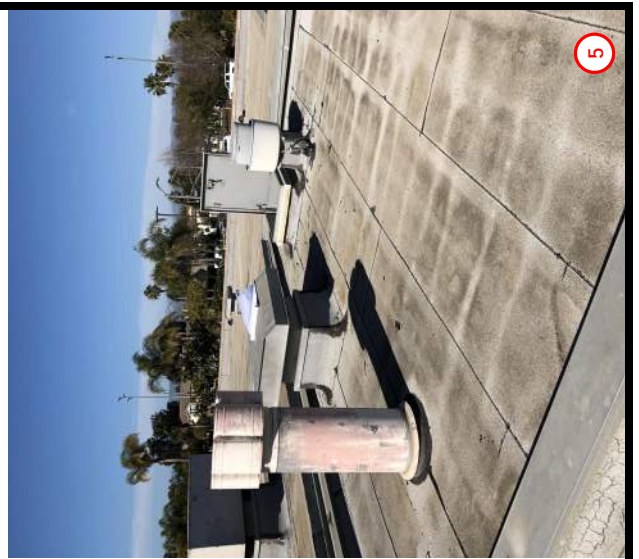
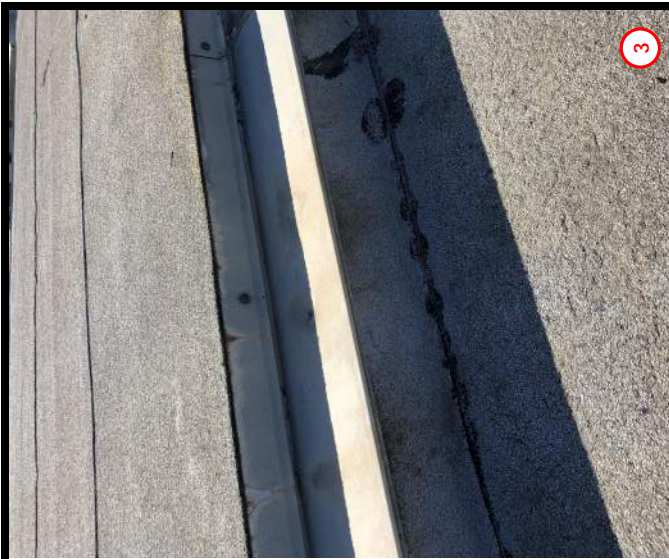
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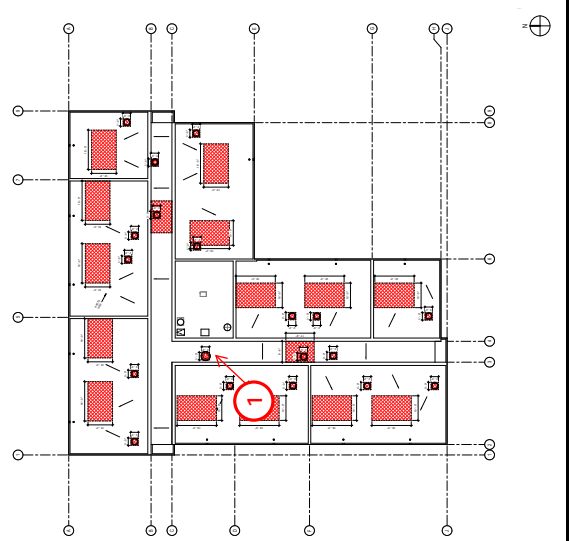
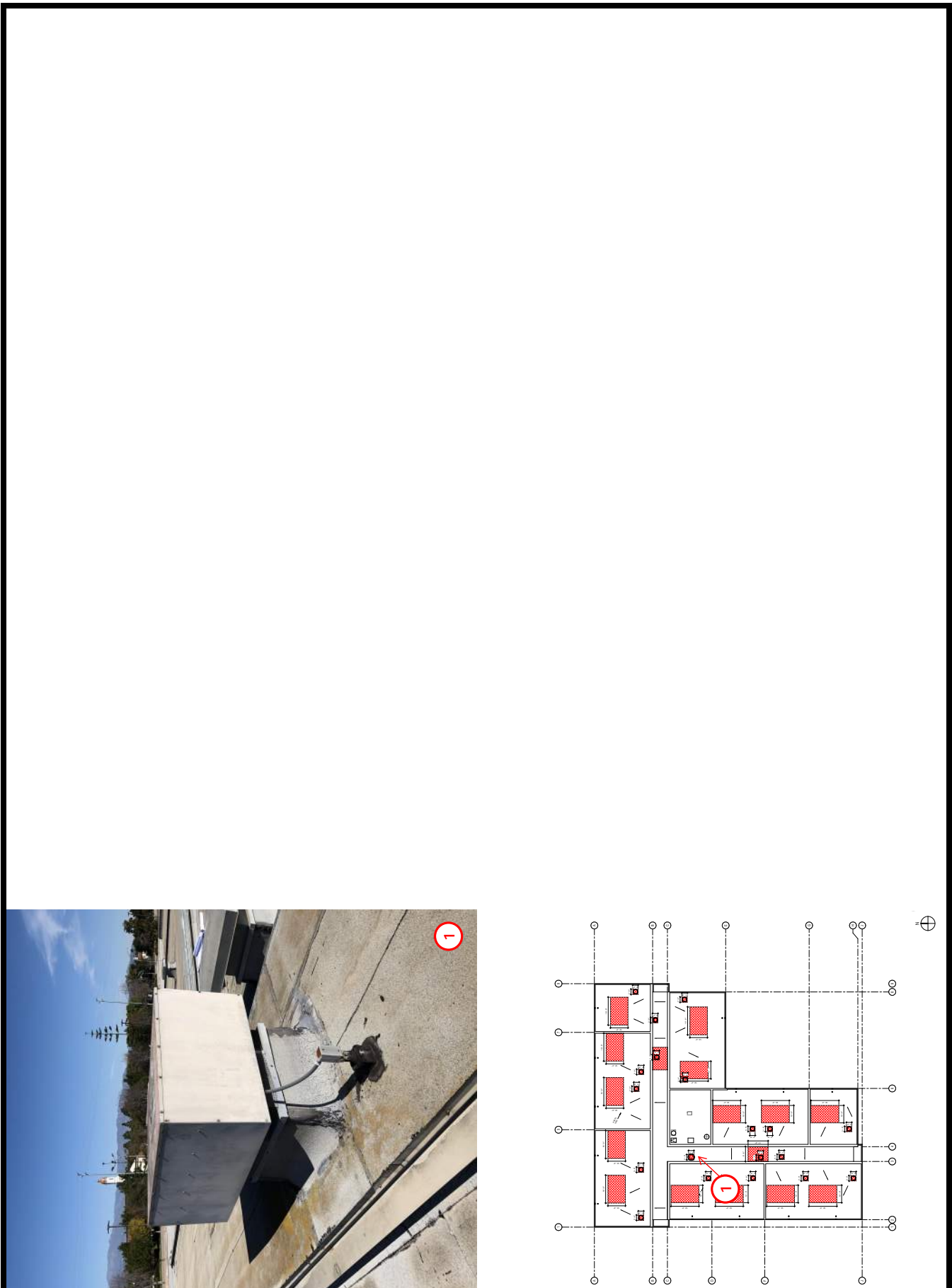
GONZALES ROAD

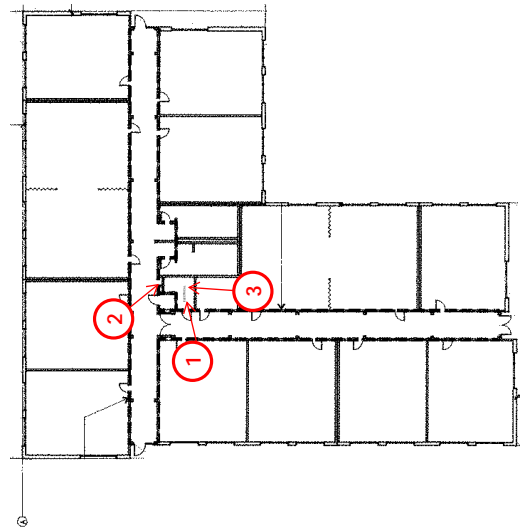


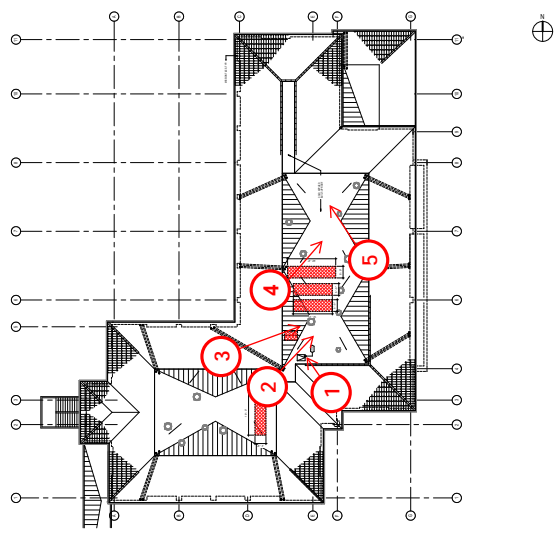
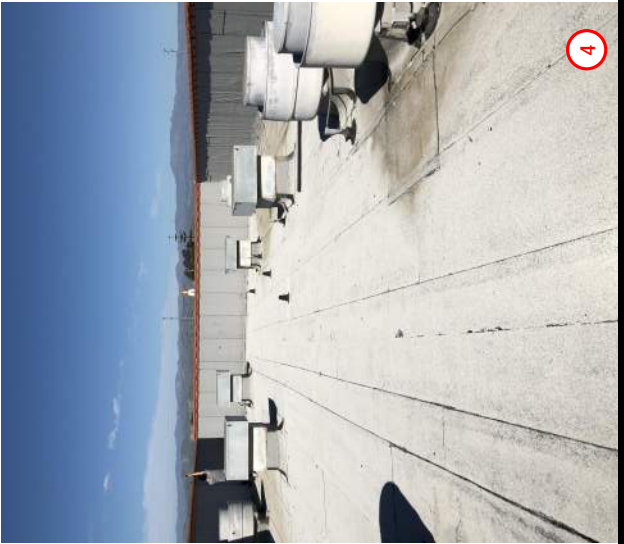
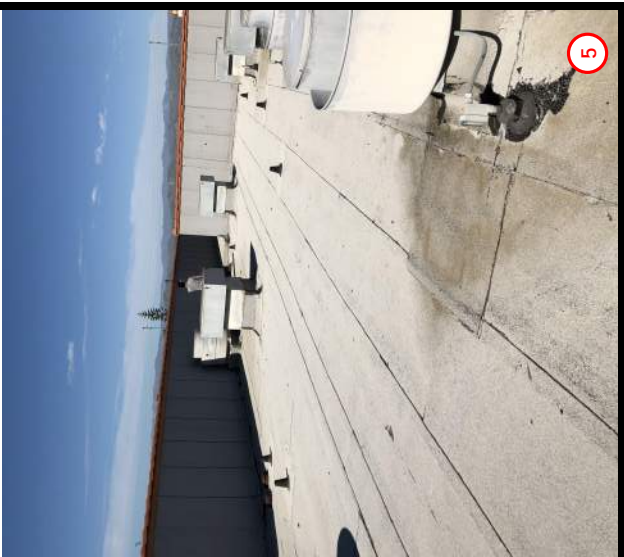
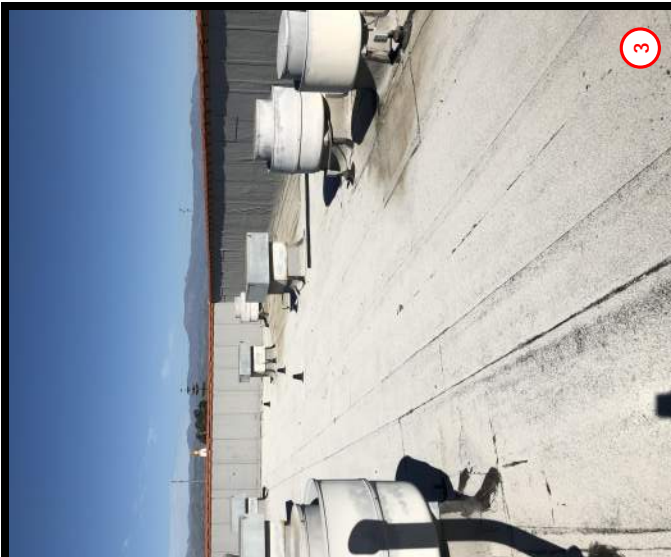


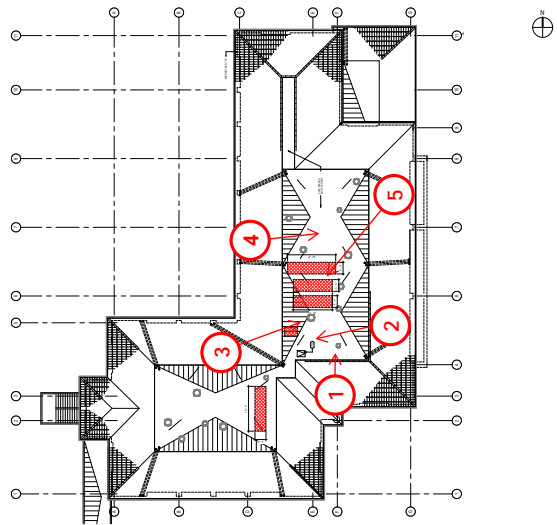
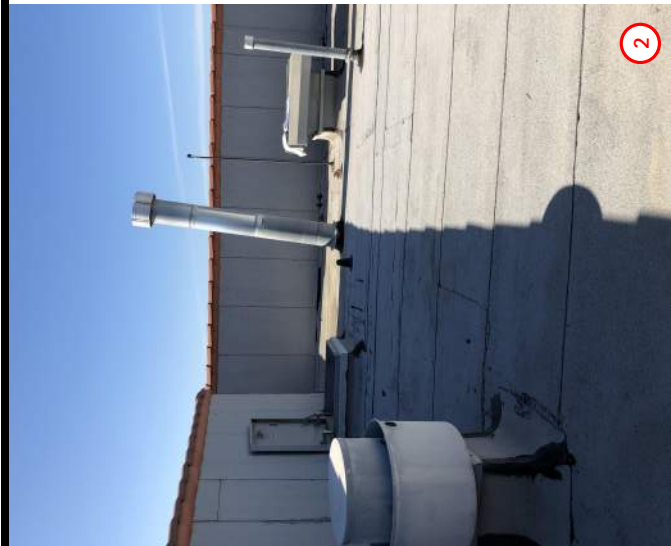
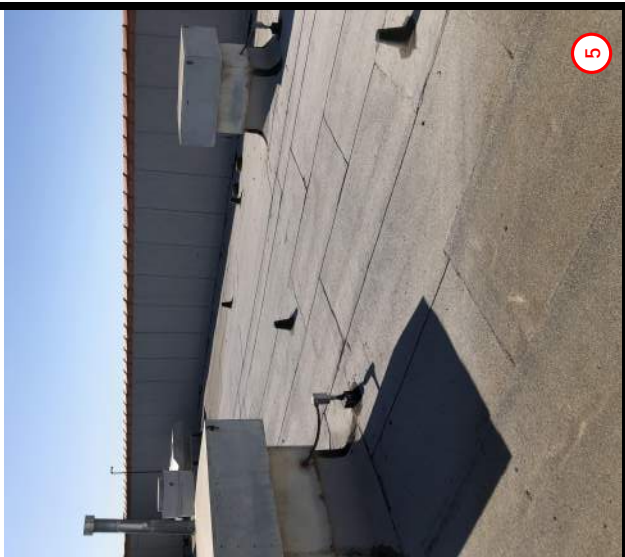


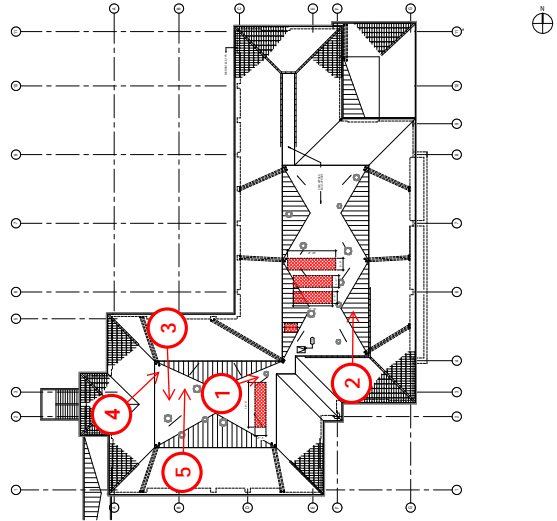
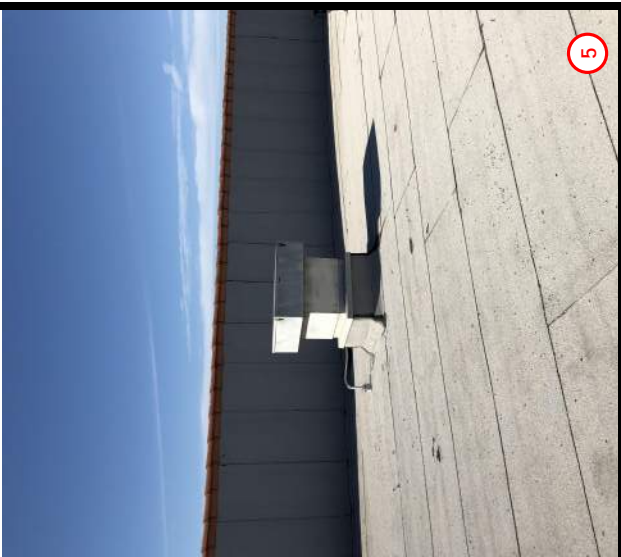


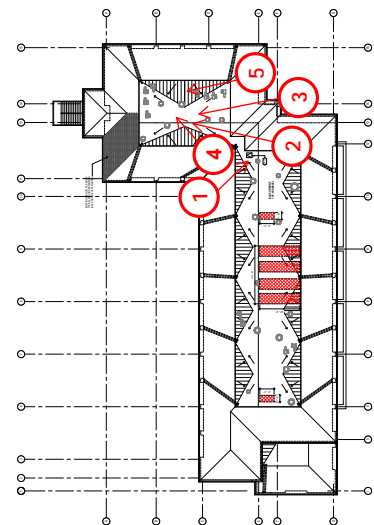
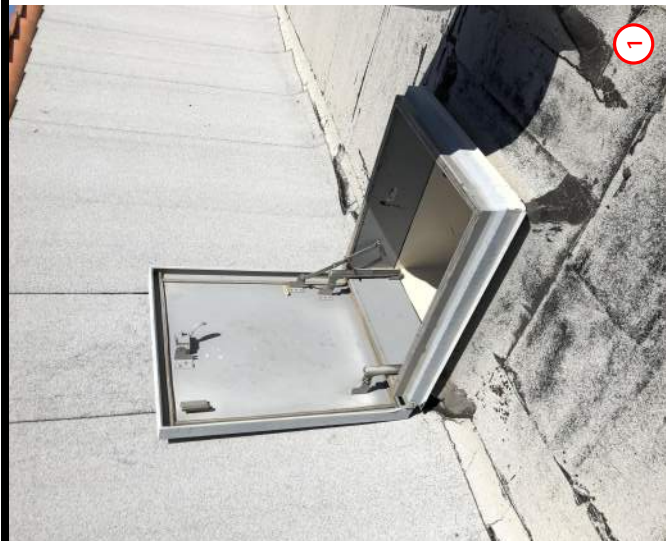


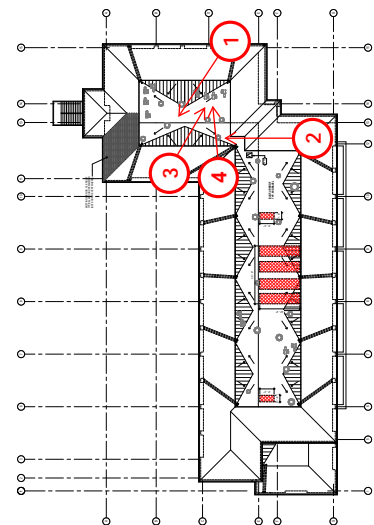
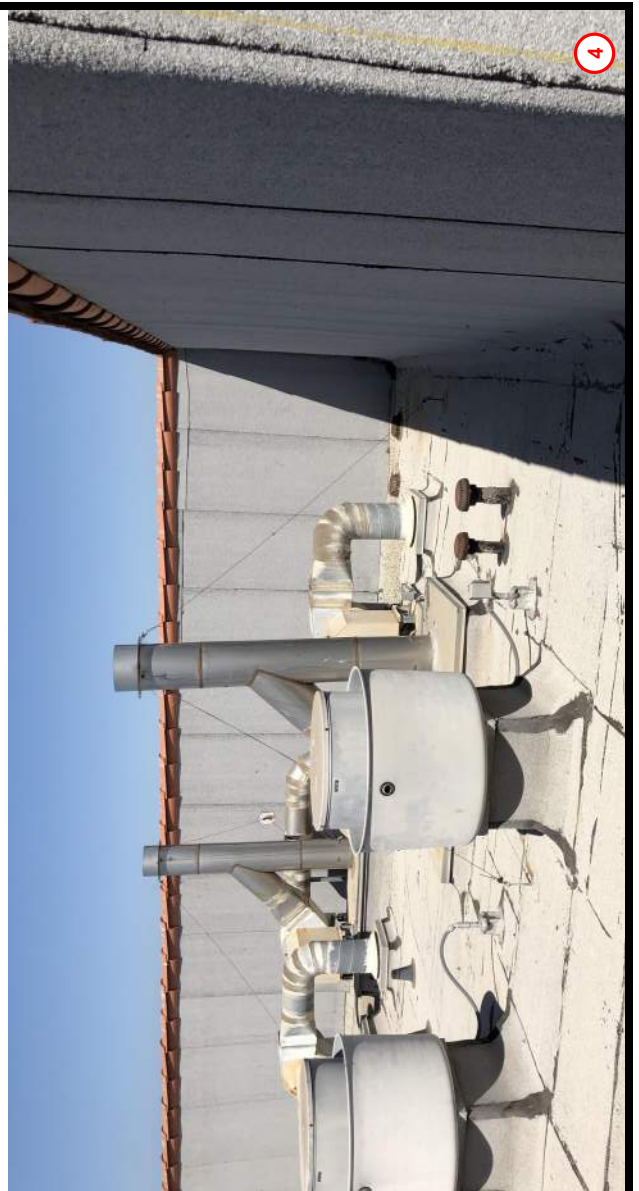


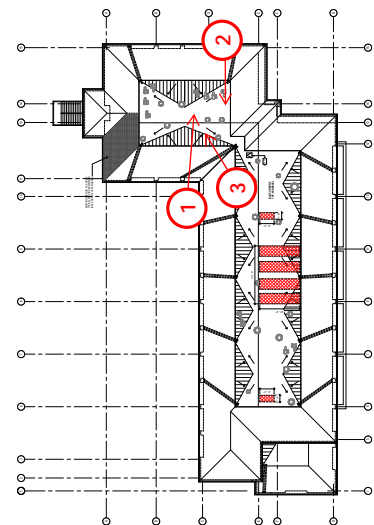
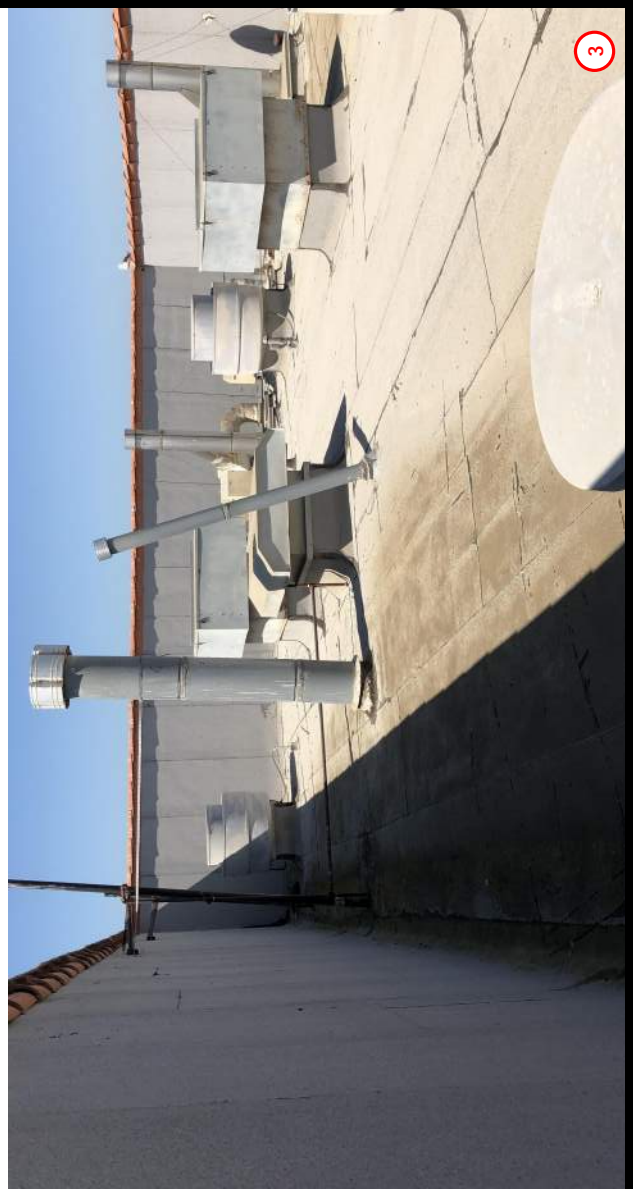


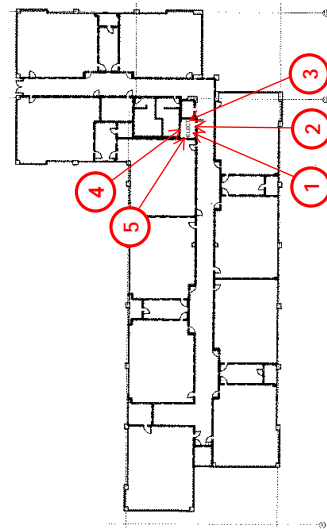
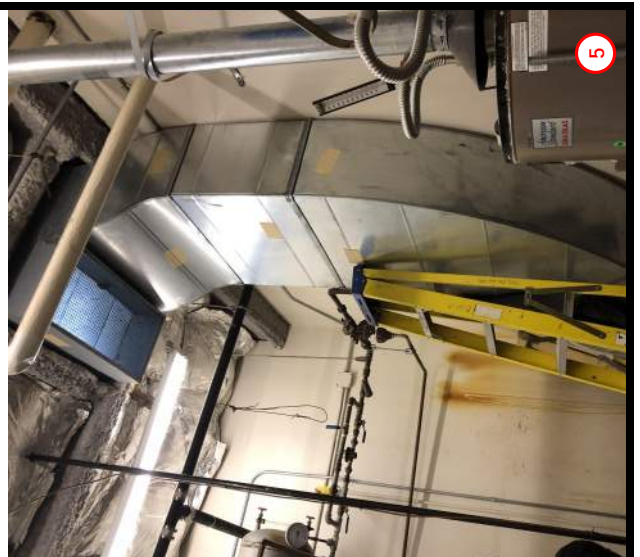


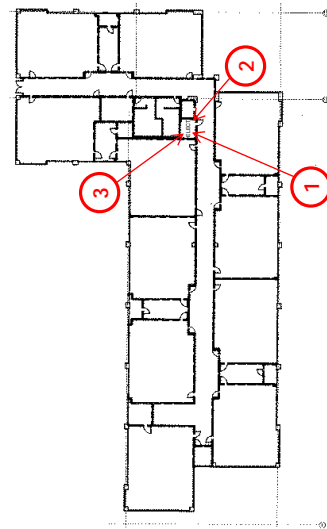


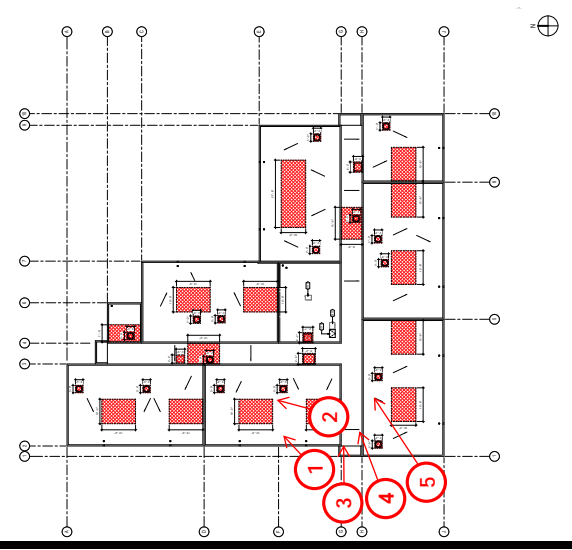
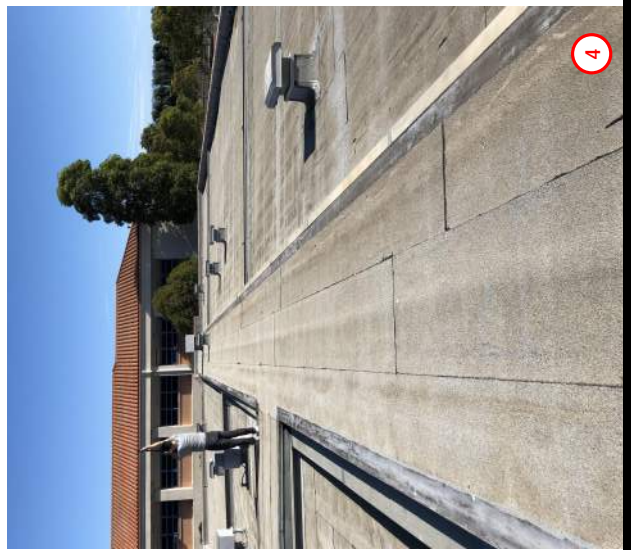
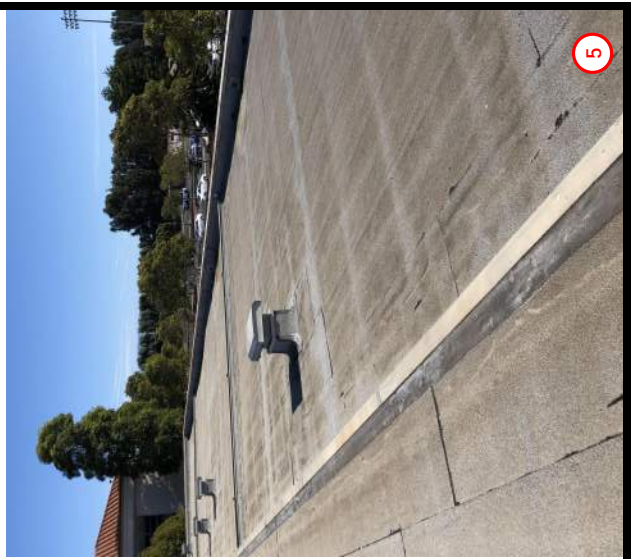


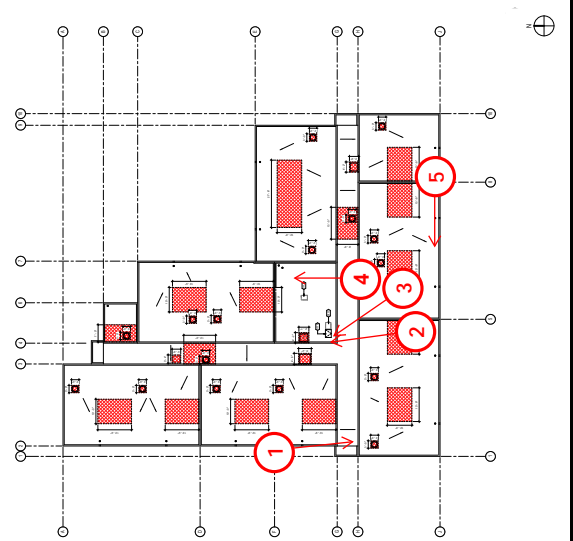
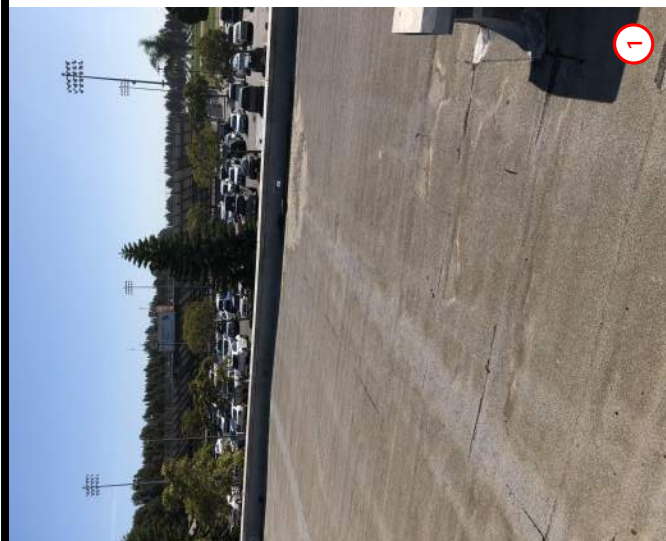
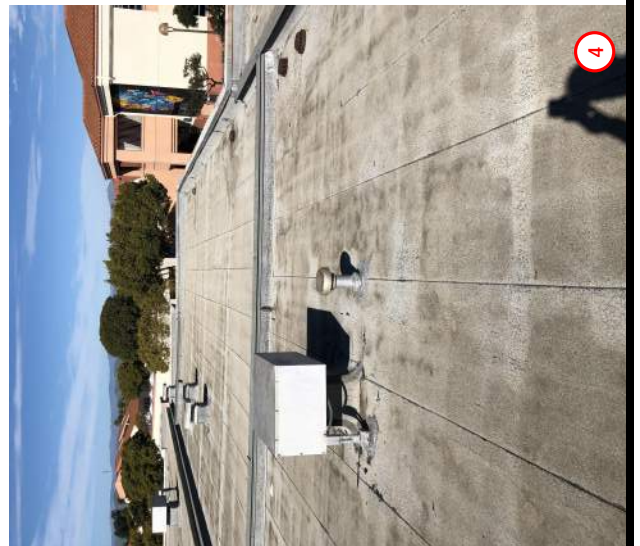
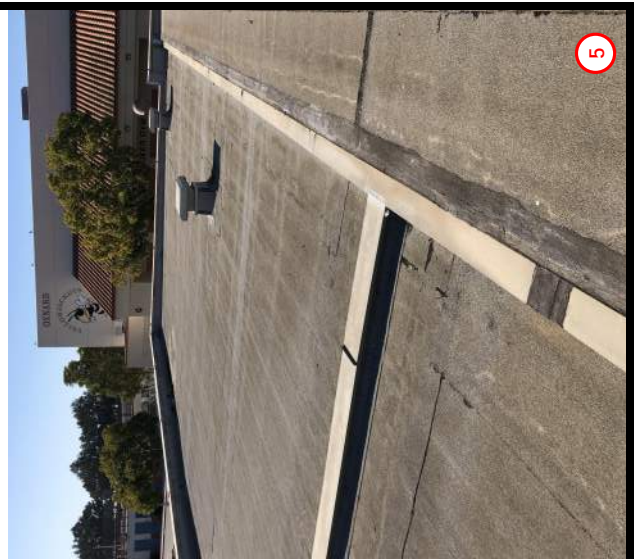
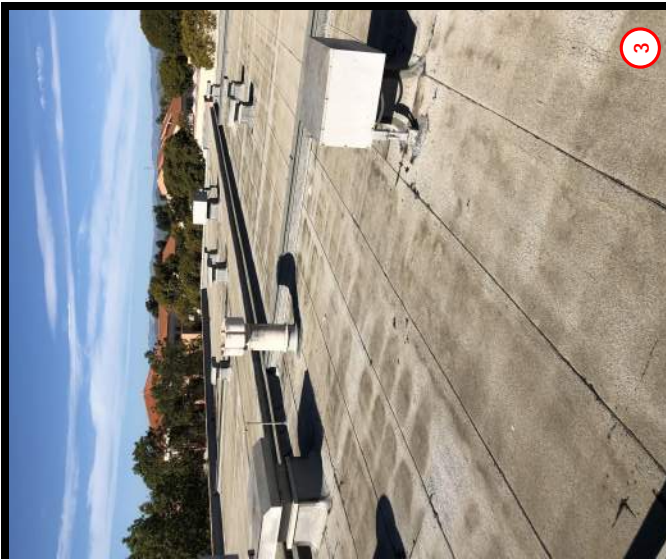


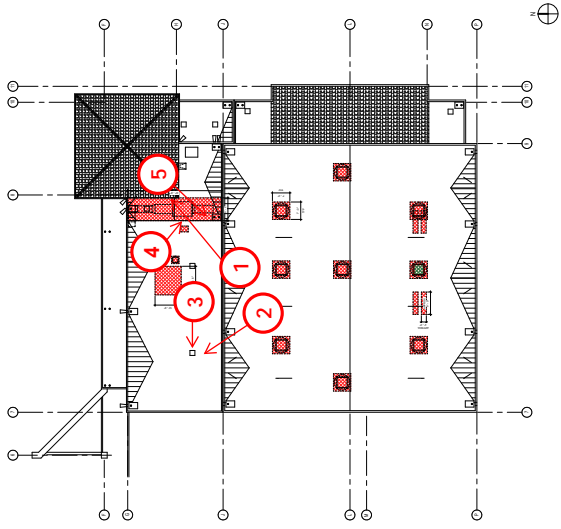
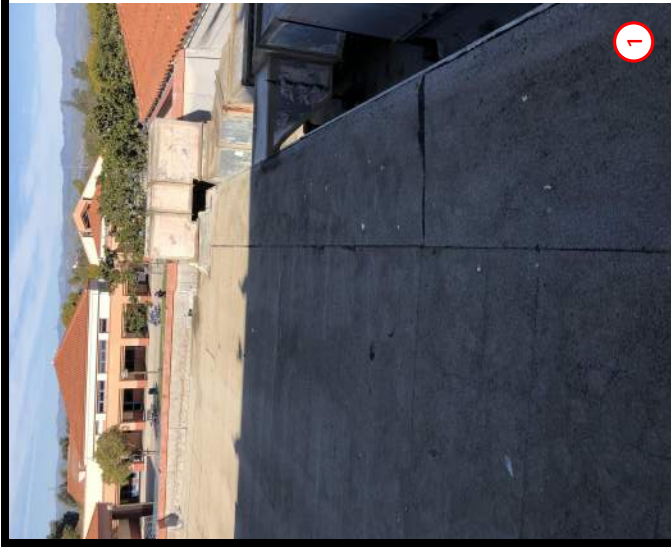
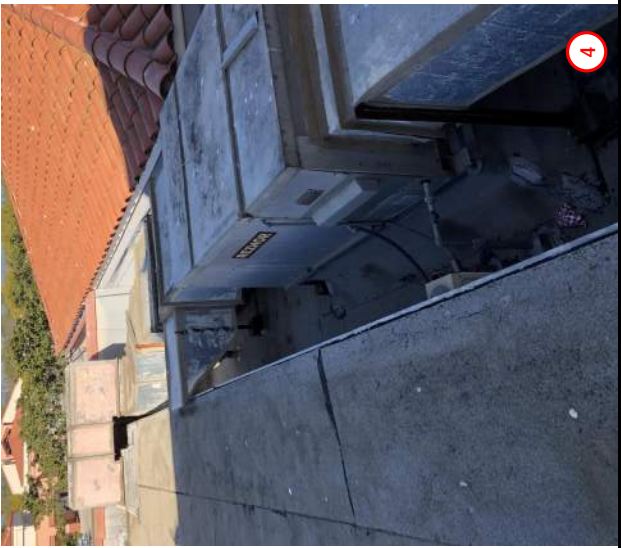
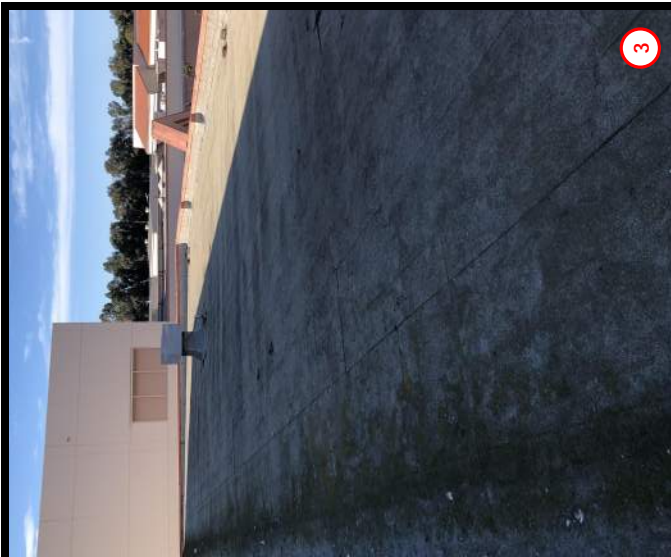


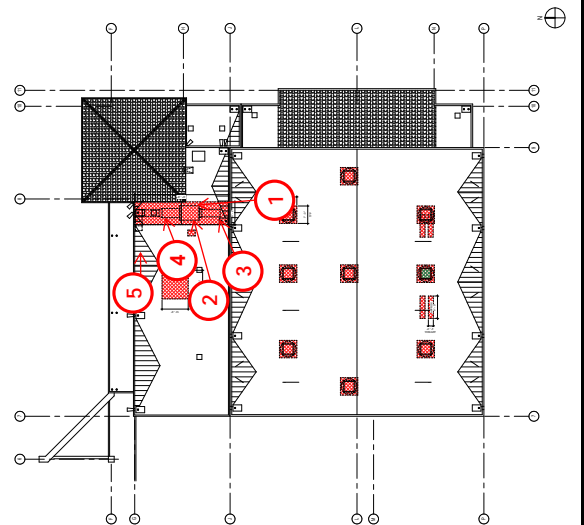
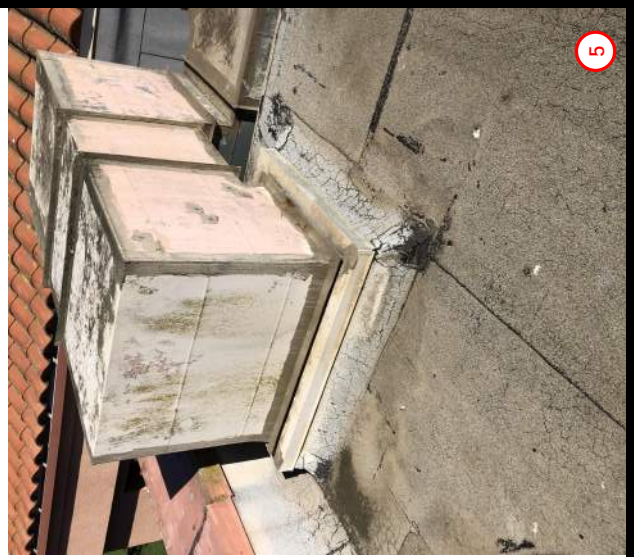


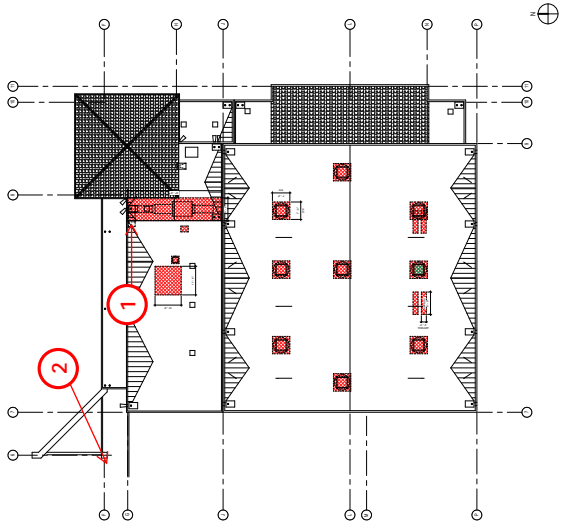


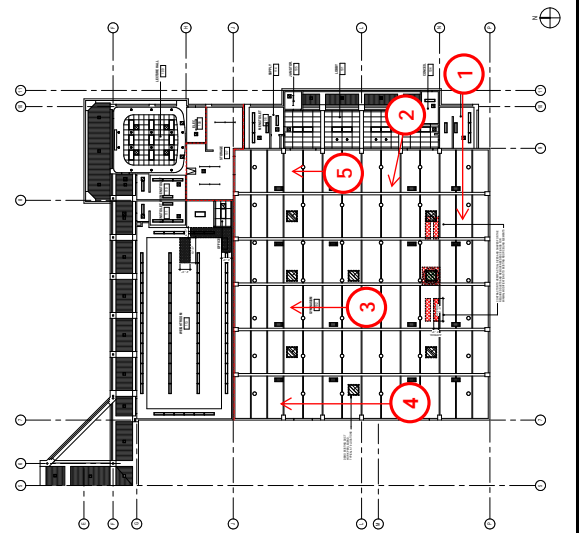
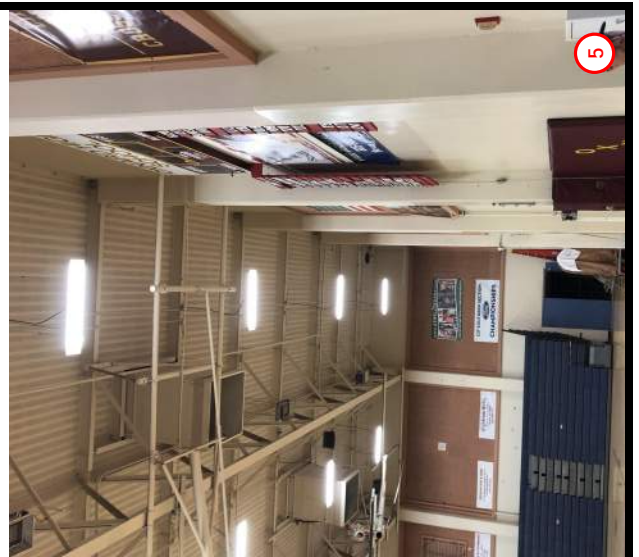
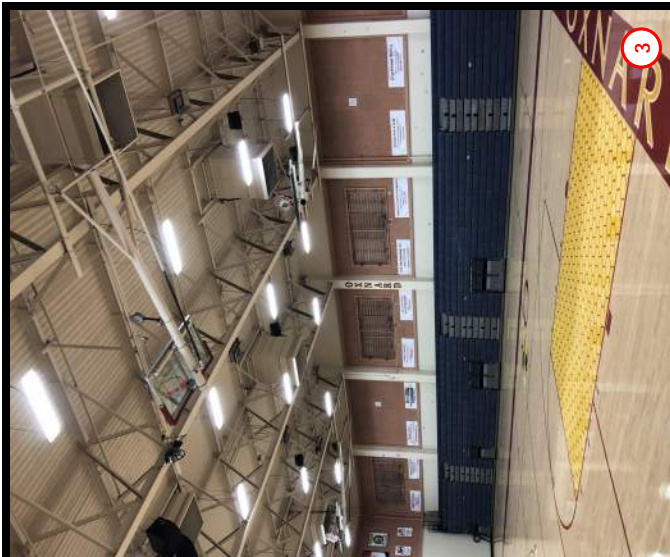


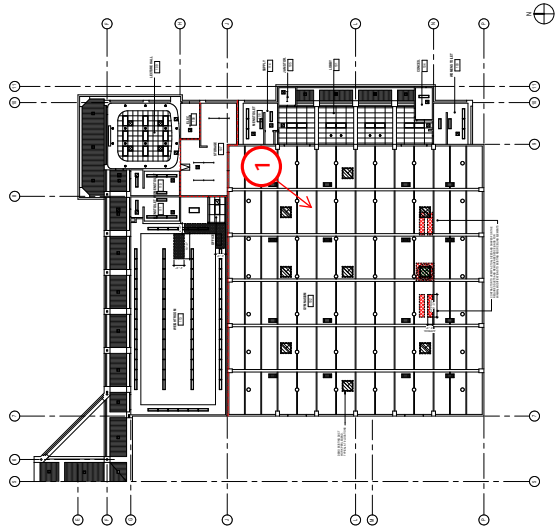
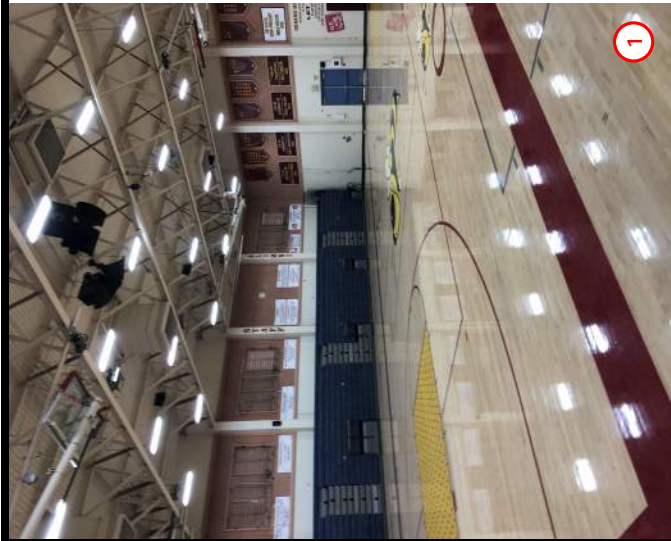


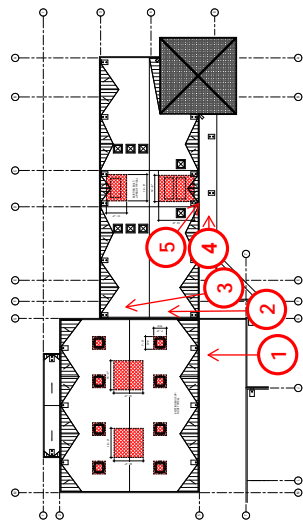
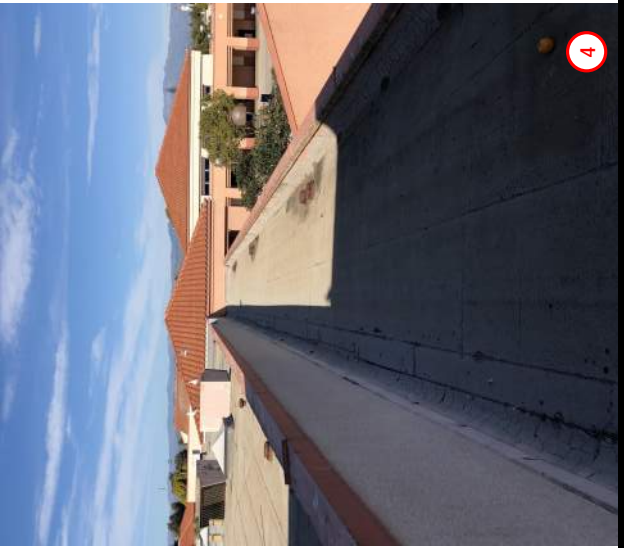
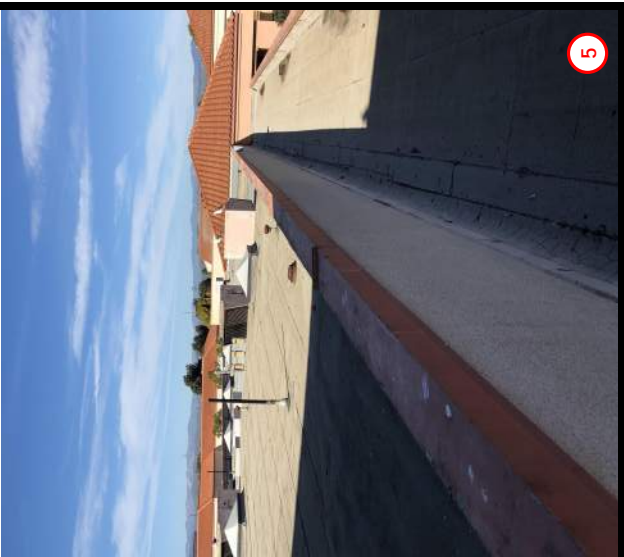


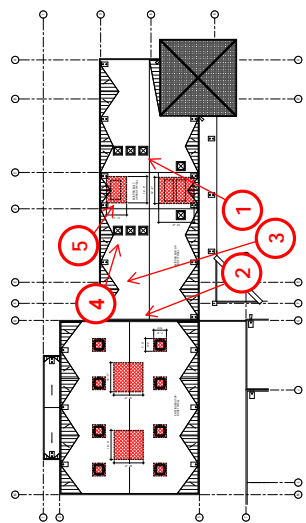
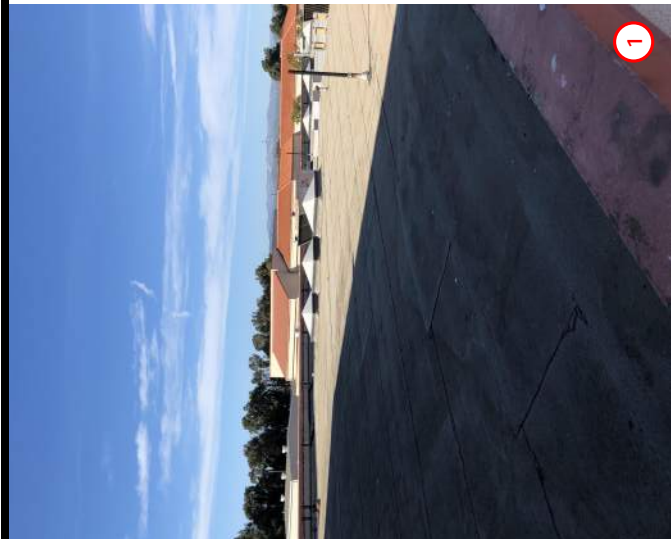
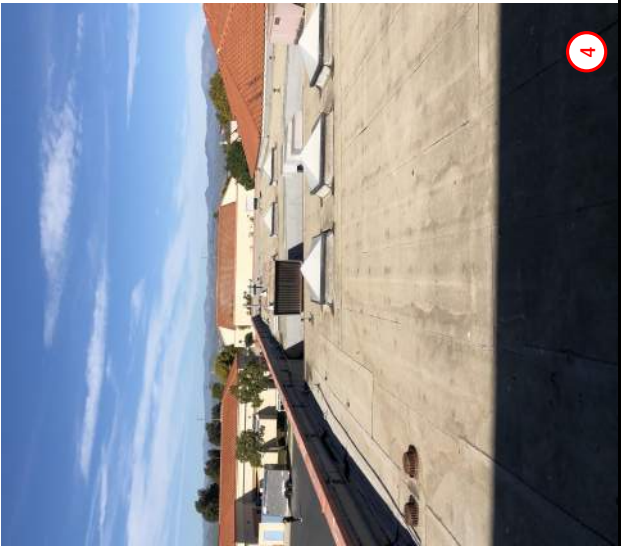
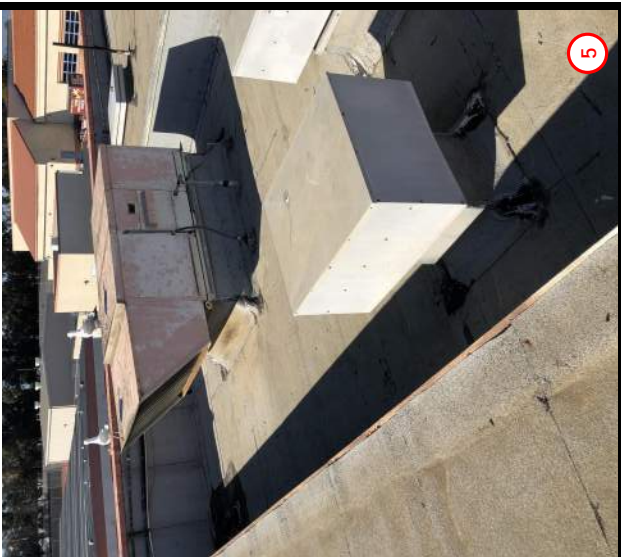


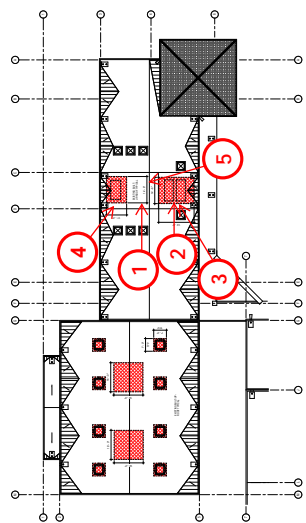
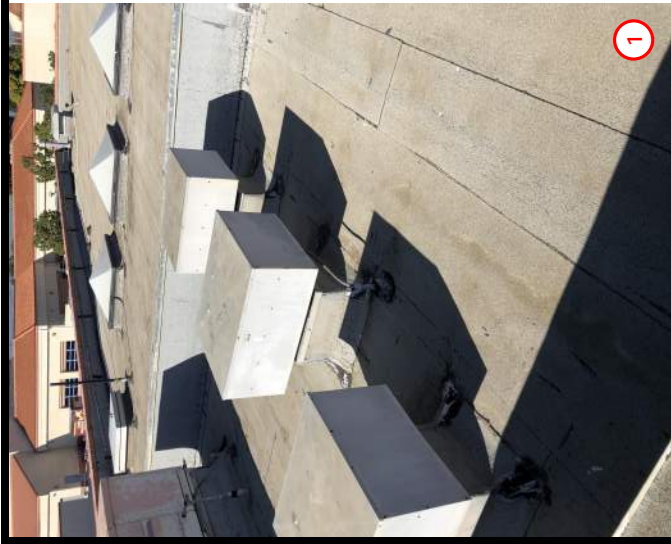
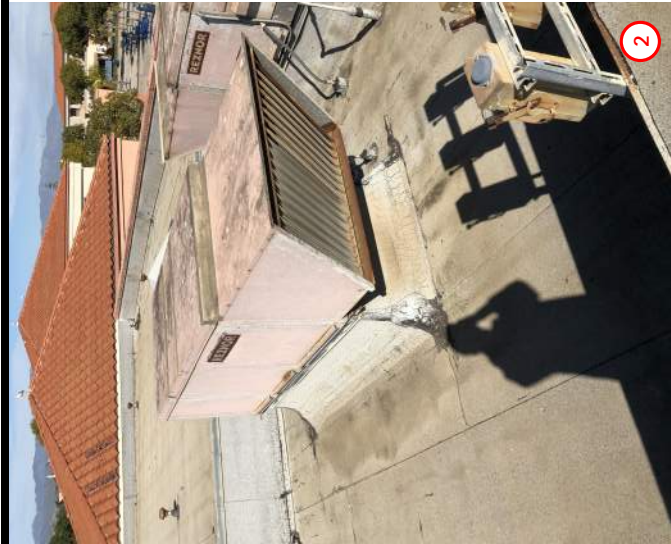
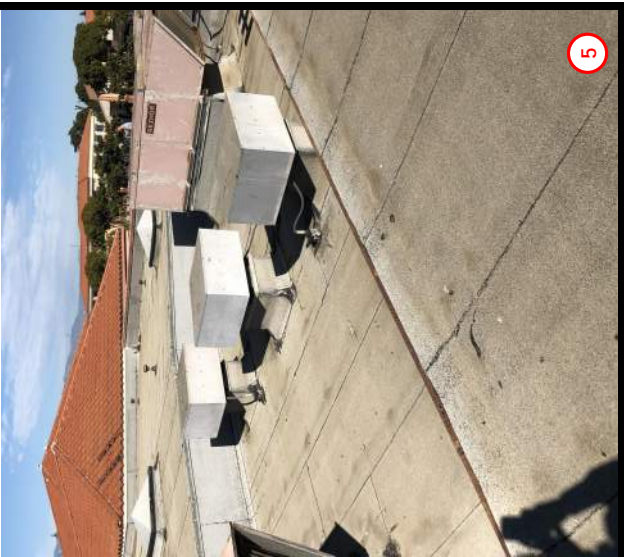


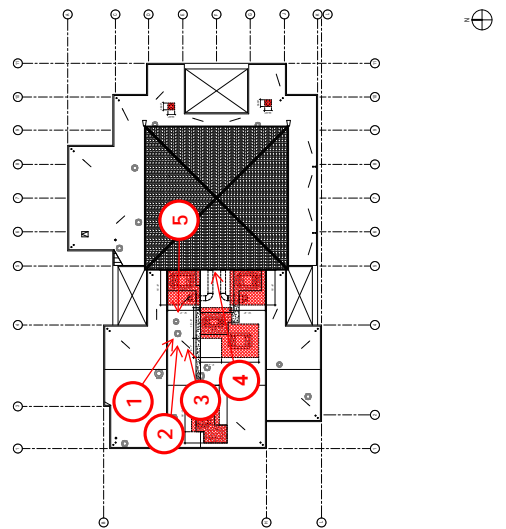
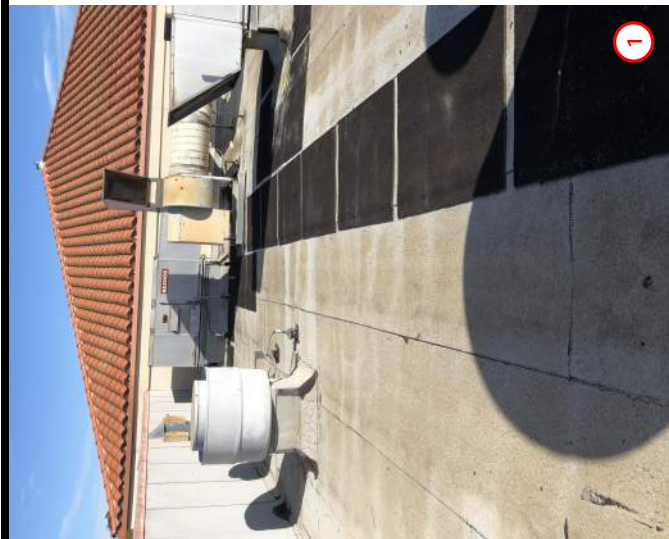
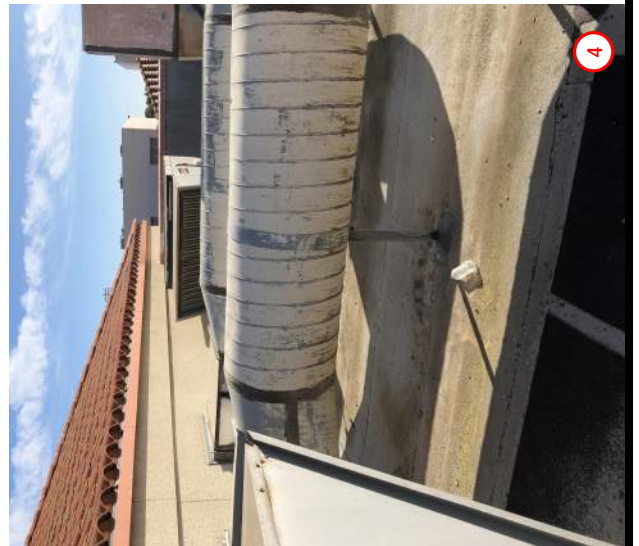
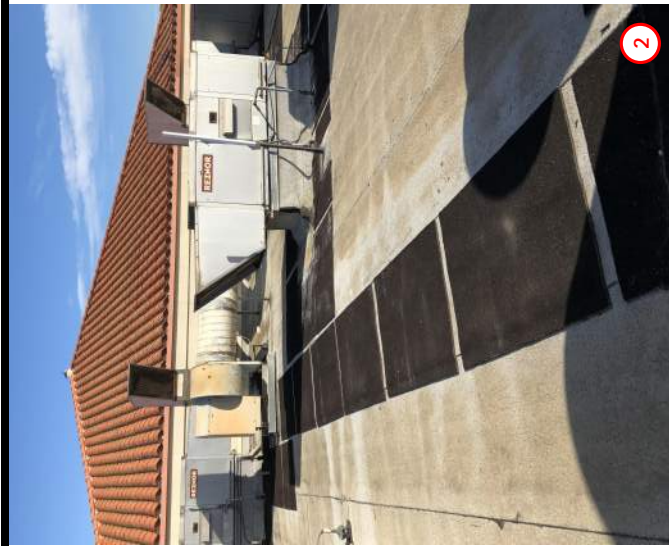
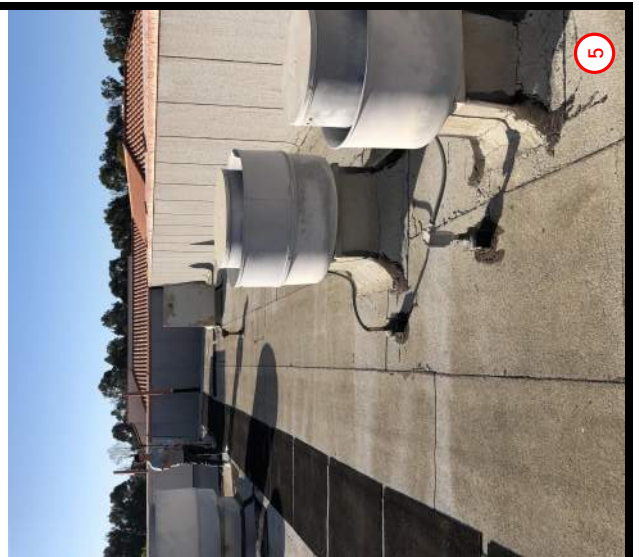
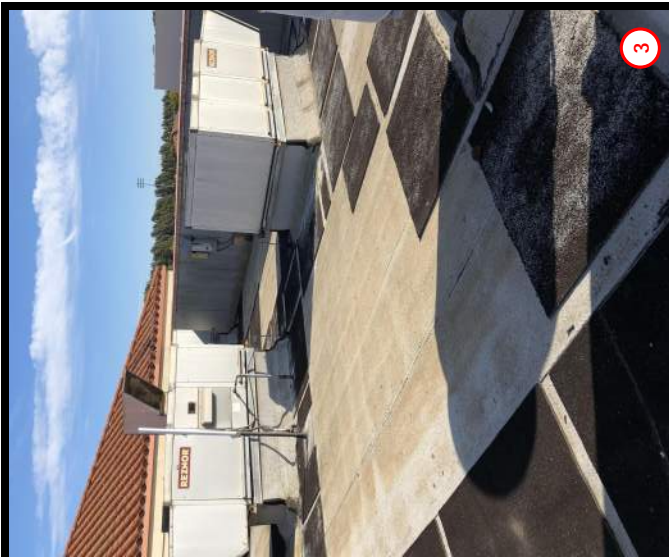


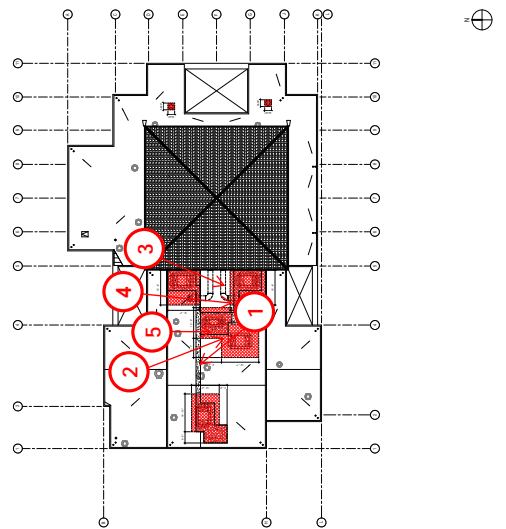
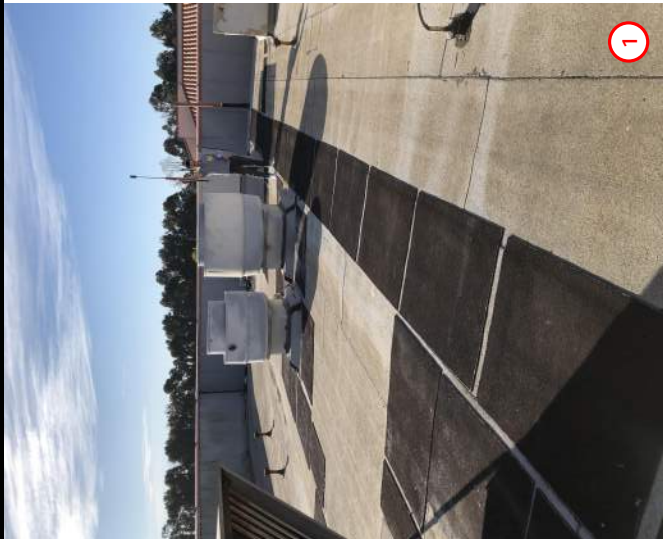


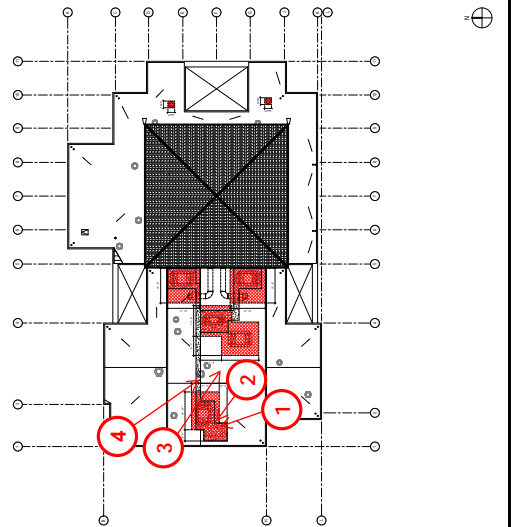
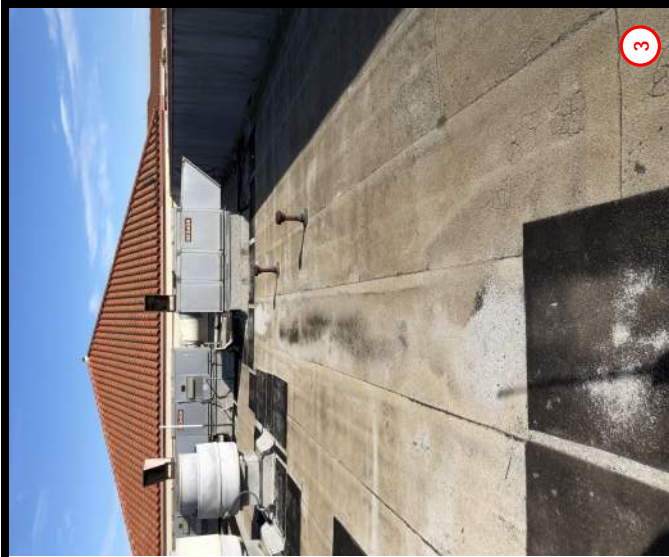


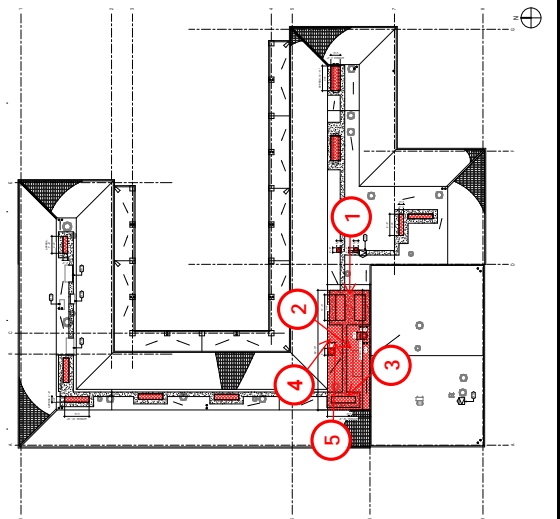
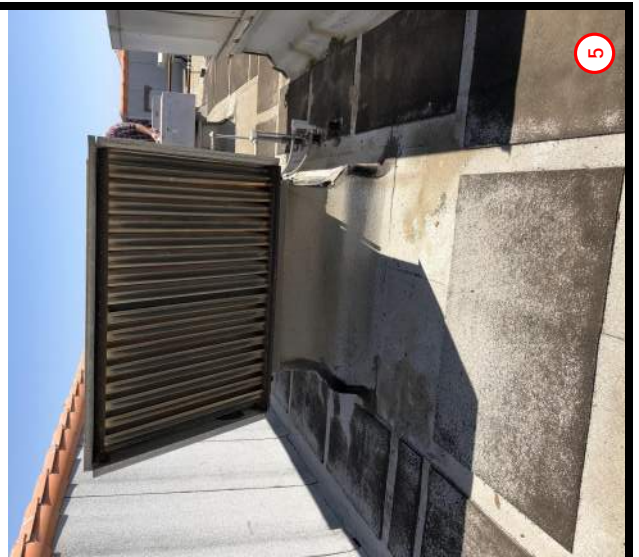


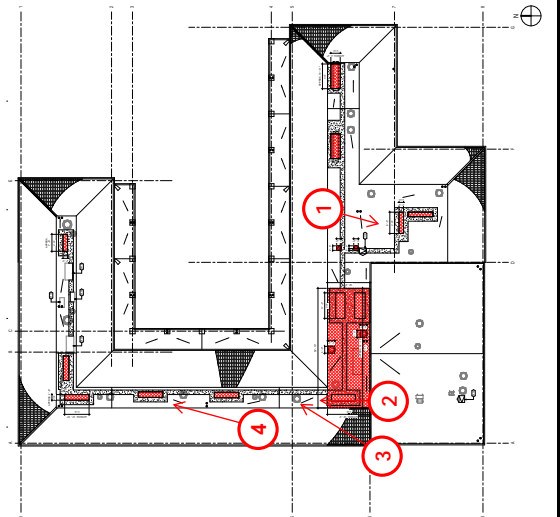
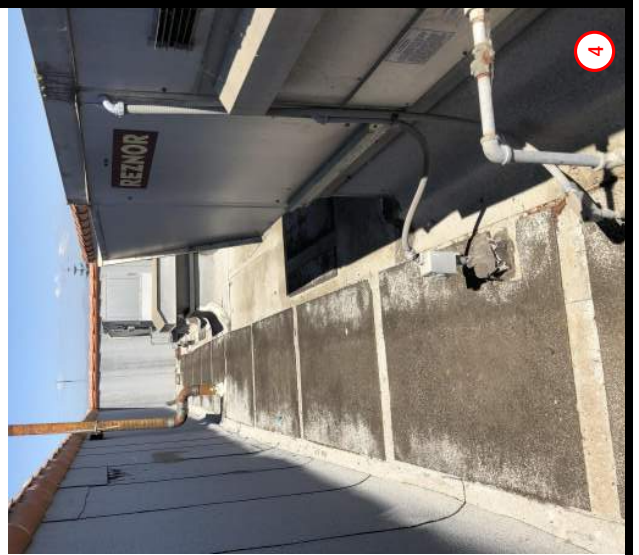


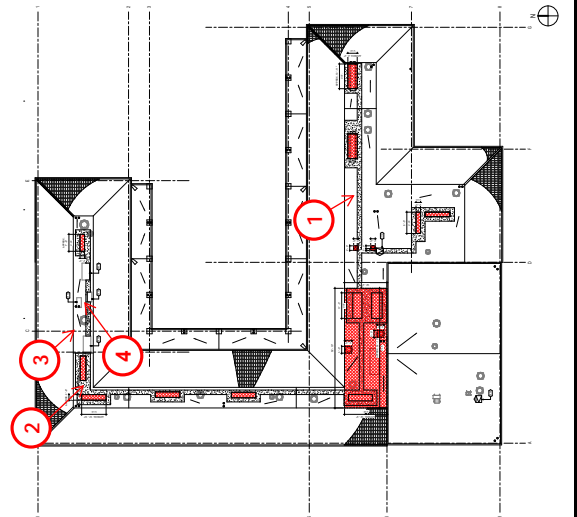












SECTION 05 51 33

METAL LADDERS

1. PART 1 GENERAL

1.1 WORK INCLUDED

- A. Prefabricated aluminum roof access ladders.
- B. Personal fall assist system.
- C. Protective cages.
- D. Security doors.
- E. Ship ladders.

1.2 REFERENCES

- A. AWS D1.2 - Structural Welding Code - Aluminum.
- B. OSHA - Standards of Occupational Safety and Health Administration.
- C. ANSI - ANSI A-14.3 Standards.
- D. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes and Tubes.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Submit shop drawings indicating details dimensions, materials, sizes and types of connections, finishes and location within project for each unit.
- C. Manufacturer and/or fabricator shall submit a certificate of product compliance with OSHA standards.

1.4 FIELD MEASUREMENTS

- A. Verify actual dimensions on site prior to fabrication.
- B. Contractor shall be responsible for a complete installation of all components required.

2. PART 2 PRODUCTS

2.1 MANUFACTURERS:

- A. O'Keeffe's Inc., www.okeeffes.com.
- B. Alaco Aluminum Ladders, www.alacoladder.com.
- C. Dur-Red Products, www.dur-red.com.
- D. Lapeyre Stair, Inc., www.lapeyrestair.com.
- E. Precision Ladders, LLC, www.precisionladders.com.
- F. Substitution: Under provisions of Section 01 25 13.

2.2 MATERIALS

- A. Rungs shall be round or square and a minimum of 1-1/8 inch in section, formed from aluminum extrusion, ASTM B221 alloy 6061-T6, and shall be deeply serrated on all sides to provide maximum foot grip and traction. Rungs shall be able to withstand a 250 pound loading without failure. Space rungs 12 inches o.c. as indicated.
- B. Channel side rail shall be minimum 3 inch x 1 inch x 1/8 inch aluminum extrusions, ASTM B221 alloy 6061-T6.
- C. Personal Fall Assist System: Continuous vertical rigid rail track fall protection system permanently mounted to ladder rungs and complete with necessary components, aluminum climbing trolley, ladder climbing harness; all meeting OSHA requirements.
- D. Protective cage shall be flat extruded aluminum bars, 1/4 inch thick x 2 inch wide for hoop bars and 3/16 inch thick x 1-1/2 inch wide for vertical bars similar to O'Keeffe's Model 533, ASTM B221 alloy 6061-T6 formed to provide a circular cage designed to meet OSHA requirements.
- E. Welding Materials: AWS D1.2.
- F. Security door shall be .0188 inch thick aluminum sheet secured with aluminum piano hinge and hasp. Door to be 7'-10" in height.
- G. Shipp Ladders: Thread size not less than 1-1/4 inches high, 4-1/8 inch deep and 2 feet wide; tread spacing shall be 1 foot on center. Handrails shall be aluminum pipe, not less than 1-1/2 inches in diameter with hemispheric end caps. Similar to O'Keeffe's model 520 with 75° angle.
- H. Finish:
 - 1. Clear natural anodized finish.
 - 2. Factory finish all exterior ladders with manufacturer's standard powder coating in color as selected by Architect.

2.3 ACCESSORIES

- A. Anchorage devices and bolts necessary for installation as required by manufacturer's recommendations.

2.4 FABRICATION

- A. Materials used shall be new stock, straight within industry tolerances and free of any defects in finish or structure.
- B. Cutting of stock shall be by mechanical means to assure a smooth square and true working edge.
- C. Mechanical Connections: Bolted connections shall be made with cast aluminum connectors and stainless steel anchorage devices.
- D. Welded Connections: In accordance with AWS D1.2 requirements.
- E. Protection of aluminum from dissimilar materials:
 - 1. Dissimilar metals except stainless steel, white bronze, and solid zinc, shall be painted with a heavy brush coat of zinc-chromate primer and one coat of aluminum paint.
 - 2. Aluminum surfaces in contact with mortar, concrete, plaster or other masonry materials shall be given one heavy brush coat of bituminous paint.

3. PART 3 EXECUTION

3.1 PREPARATION

- A. Verify proper timing for ladder installation to prevent undue delay in job progress.
- B. Installation of ladder units shall be considered as acceptance by the Contractor of the adjacent construction as substantially conforming to the intended details and capability of supporting the ladder unit.

3.2 INSTALLATION:

- A. Secure ladders in position as indicated on the Drawings and as required by manufacturer's specifications.

END OF SECTION

SECTION 23 72 00

ENERGY RECOVERY DEVICES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Air to Air Energy Recovery Ventilator.

1.2 QUALITY ASSURANCE

- A. Sound Ratings: Tested to AMCA 300.
- B. Fabrication: Conform to AMCA 99 and AHRI 430.
- C. Energy Recovery Ventilator (ERV) core element: Effectiveness values shall be tested in accordance with ASHRAE 84, be AHRI certified to Standard 1060, and bear the AHRI Certification symbol for AHRI Air-to-Air Energy Recovery Ventilation Equipment Certification program based on AHRI 1060.
- D. Unit shall bear a UL or ETL label of approval.

1.3 SUBMITTALS

- A. Submit shop drawings per Section 23 05 00.
- B. Energy transfer performance shall be clearly documented through a certification program conducted in accordance with ASHRAE 84 and AHRI 1060 standards. Submit fixed plate AHRI 1060 compliance certification with reference number.
- C. Indicate ratings, energy recovery performance, pressure drop, outdoor air correction factor (OACF), exhaust air transfer rate (EATR), motor electrical characteristics, gauges, material finishes, assembly, unit dimensions, weight, required clearances, construction details, and field connection details.
- D. Indicate unit performance data for both supply air and exhaust air, with system operating condition indicated.
- E. Submit manufacturer's installation instructions.
- F. Any exceptions to the specifications must be clearly noted. Contractor is responsible for any additional expenses that may occur due to any exception made.
- G. Submit operation and maintenance data.
- H. Submit static pressure calculations showing total pressure drops.
- I. Submit certification that energy recovery devices, accessories, and components will withstand seismic forces defined in Section 23 05 50. Include the following:
 - 1. Basis for Certification: Indicate whether certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.

3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in factory-fabricated protective containers, with factory-installed shipping skids and lifting lugs.
- B. Store in clean dry place and protect from weather and construction traffic. Handle carefully to avoid damage to components, enclosures, and finish.

1.5 WARRANTY

- A. Provide manufacturer's 10-year parts and labor warranty on energy recovery ventilator core element against defects in material and workmanship.

1.6 MAINTENANCE SERVICE

- A. Include maintenance items as outlined in manufacturer's operating and maintenance data, including minimum of controls checkout, adjustments and recalibrations.
- B. Submit copy of service call work order or report, and include description of work performed.

PART 2 - PRODUCTS

2.1 AIR-TO-AIR ENERGY RECOVERY VENTILATOR

- A. Air-to-Air Energy Recovery Ventilators shall be fully assembled at the factory and consist of a fixed-plate cross-flow heat exchanger with no moving parts, an insulated single wall G90 galvanized 20-gauge steel cabinet, motorized outside air intake damper, filter assemblies for both intake and exhaust air, enthalpy core, supply air blower assembly, motorized return air damper, exhaust air blower assembly and electrical control box with all specified components and internal accessories factory installed and tested and prepared for single-point high voltage connection. Entire unit, with the exception of field-installed components, shall be assembled and test operated at the factory.

2.2 CABINET

- A. Materials: Formed single wall insulated metal cabinet, fabricated to permit access to internal components for maintenance.
- B. Outside casing: 20 gauge, galvanized (G90) steel meeting ASTM A653 for components that do not receive a painted finish. Painted components as supplied by the factory shall have polyester urethane paint on 20 gauge G90 galvanized steel.
- C. Access doors shall be hinged with airtight closed cell foam gaskets. Door pressure taps, with captive plugs, shall be provided for cross-core pressure measurement allowing for accurate airflow measurement.
- D. Unit shall have factory-installed duct flanges on all duct openings.
- E. Cabinet Insulation: Unit walls and doors shall be insulated with 1 inch, 4 pound density, foil/ scrim faced, high density fiberglass board insulation, providing a cleanable surface and eliminating the possibility of exposing the fresh air to glass fibers, and with a minimum R-value of 4.3 (hr-ft²-°F/BTU).

- F. Enthalpy core: Energy recovery core shall be of the total enthalpy type, capable of transferring both sensible and latent energy between airstreams. Latent energy transfer shall be accomplished by direct water vapor transfer from one airstream to the other, without exposing transfer media in succeeding cycles directly to the exhaust air and then to the fresh air. No condensate drains shall be allowed. The energy recovery core shall be designed and constructed to permit cleaning and removal for servicing. The energy recovery core shall have a ten year warranty. Performance criteria are to be as specified in AHRI Standard 1060.
- G. Control center / connections: Energy Recovery Ventilator shall have an electrical control center where all high and low voltage connections are made. Control center shall be constructed to permit single-point high voltage power supply connections to the fused disconnect.
- H. Passive Frost Control: The ERV core shall perform without condensing or frosting under normal operating conditions (defined as outside temperatures above -10°F and inside relative humidity below 40%). Occasional more extreme conditions shall not affect the usual function, performance or durability of the core. No condensate drains will be allowed.
- I. Motorized Isolation Damper(s): Return Air and Outside Air motorized damper(s) of an AMCA Class I low leakage type shall be factory installed.

2.3 BLOWER SECTION

- A. Blower section construction, Supply Air and Exhaust Air: Blower assemblies consist of a TEFC motor, and a belt driven forward-curved blower.
- B. Blower assemblies: Shall be statically and dynamically balanced and designed for continuous operation at maximum rated fan speed and horsepower.

2.4 MOTORS

- A. Blower motors shall be Premium Efficiency, EISA compliant for energy efficiency. The blower motors shall be totally enclosed (TEFC) and be shall be supplied with factory installed motor starters.
- B. Belt drive motors shall be provided with adjustable pulleys and motor mounts allowing for blower speed adjustment, proper motor shaft orientation and proper belt tensioning.

2.5 UNIT CONTROLS

- A. Fan control: both airstreams.
- B. Factory-installed microprocessor controller and sensors, Enhanced ERV controls that:
 - 1. Comply with requirements in Division 23 Section "Sequence of Operations for HVAC Controls"
 - 2. Has factory-installed hardware and software to enable the building automation interface via BACnet to monitor, control, and display status and alarms.
 - 3. The microprocessor controller shall be capable of operating at temperatures between -20F to 160F.
 - 4. The microprocessor controller shall be a DIN rail mounting type.
 - 5. Factory-installed microprocessor controller shall come with backlit display that allows menu-driven display for navigation and control of unit.
 - 6. The microprocessor controller shall have the ability to communicate with the BMS via BACnet MSTP/IP.
 - 7. The microprocessor control shall be capable of integral diagnostics.

8. The microprocessor controller shall have a battery powered clock.
9. The sensors that will be required for control are:
 - i. (2) Temperature sensor for fresh air and exhaust air
 - ii. (2) Temperature and humidity sensor for outside air, return air
 - iii. (2) Differential pressure sensors for filter alarms
 - iv. (2) Differential pressure sensors for measuring pressure drop across energy recovery core and for determining airflow in both airstreams
 - v. (2) Adjustable current switches
10. The microprocessor controller shall have the capability to monitor the unit conditions for alarm conditions. Upon detecting an alarm, the microprocessor controller shall have the capability to record the alarm description, time, date, available temperatures, and unit status for user review. A digital output shall be reserved for remote alarm indication. Alarms to be also communicated via BMS as applicable. For required alarms, refer to BMS Control drawings in Construction Drawings.
11. Display the following on the face of microprocessor controller:
 - i. Unit on
 - ii. Outdoor air temperature
 - iii. Outdoor air humidity
 - iv. Return air temperature
 - v. Return air humidity
 - vi. Supply air temperature
 - vii. Unit on/off
 - viii. Fan on/off
 - ix. Damper status
 - x. Alarm digital display
12. The microprocessor controller shall have factory pre-programmed multiple operating sequences for control of the ERV. Factory default settings shall be fully adjustable in the field. Available factory pre- programmed sequences on operations are:

2.6 SEQUENCE OF OPERATIONS

- A. Refer to BMS Control drawings in Construction Documents.

2.7 FILTER SECTION

- A. ERV shall have MERV 13 disposable pleated filters located in the outdoor air and exhaust airstreams. All filters shall be accessible from the exterior of the unit.

2.8 COATINGS:

- A. Apply marine coating by certified licensed applicator.
- B. The coating product manufacturer shall be able to document a class 5B result on a cross hatch adhesion test (ASTM D5339) and the testing for a minimum 4000 hours in both salt spray (ASTM B117) and acid salt spray (ASTM G85) test.
- C. The coating service provider shall also be able to offer a 3-year conditioned warranty for coating applied on finned-tube coils.
- D. The coating shall be applied insuring total penetration and coverage without bridging or significantly affecting the heat transfer ability of the coil.
- E. The total dry film thickness of the coating shall be 1mil.
- F. The coating shall provide inherent protection against ultra-violet radiation and have a dry temperature resistance from -4°F to 302°F.
- G. The following components shall be coated:
 - 1. Base Rails
 - 2. Exterior cabinet
- H. Acceptable Manufacturers:
 - 1. Luvata "Tropicoat" or approved equal.

2.9 ACCEPTABLE MANUFACTURERS:

- A. RenewAire or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to start of installation, examine area and conditions to verify correct location for compliance with installation tolerances and other conditions affecting unit performance. See unit IOM.
- B. Examine roughing-in of plumbing, electrical and HVAC services to verify actual location and compliance with unit requirements. See unit IOM.
- C. Proceed with installation only after all unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Installation shall be accomplished in accordance with these written specifications, project drawings, manufacturer's installation instructions as documented in manufacturer's IOM, Best Practices and all applicable building codes.
- B. Install unit with clearances for service and maintenance.

3.3 CONNECTIONS

- A. In all cases, industry best practices shall be incorporated. Connections are to be made subject to the installation requirements shown above.
- B. Duct installation and connection requirements are specified in Division 23 of this document.
- C. Electrical installation requirements are specified in Division 26 of this document.

3.4 FIELD QUALITY CONTROL

- A. Contractor to inspect field assembled components and equipment installation, to include electrical and piping connections. Report results to Architect/Engineer in writing. Inspection must include a complete startup checklist to include (as a minimum) the following: Completed Start-Up Checklists as found in manufacturer's IOM.

3.5 START-UP SERVICE

- A. Contractor to perform startup service. Clean entire unit, comb coil fins as necessary, and install clean filters. Measure and record electrical values for voltage and amperage. Refer to Division 23 "Testing, Adjusting and Balancing" and comply with provisions therein.

3.6 DEMONSTRATION AND TRAINING

- A. Contractor to train owner's maintenance personnel to adjust, operate and maintain the entire Make-Up Air unit. Refer to Division 01 Section Closeout Procedures and Demonstration and Training.

END OF SECTION

SECTION 23 74 11

PACKAGED ROOFTOP AIR CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Packaged Rooftop Unit.
- B. Unit Controls.
- C. Roof Mounting Frame and Base.
- D. Economizers.
- E. Power Exhaust.

1.2 QUALITY ASSURANCE

- A. All insulation inside the unit and in the air stream must comply with the requirement of NFPA 90A (maximum flame spread of 25 and maximum smoke developed of 50).
- B. All units must be UL or ETL listed and must contain UL labeled components.
- C. Fans shall be tested and rated in cabinet in accordance with AMCA Standard 210. All fan assemblies shall be dynamically balanced in cabinet at final assembly.
- D. Conform to ASHRAE 90.1.
- E. All air handling and distribution equipment mounted outdoors shall be designed to prevent rain intrusion into the airstream when tested at design airflow and with no airflow, using the rain test apparatus described in Section 58 of UL 1995.

1.3 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 23 05 00.
- B. Indicate electrical service and duct connections on shop drawings or product data.
- C. Submit manufacturer's installation instructions.
- D. Submit electrical power/controls wiring diagrams and product data indicating general assembly, components, safety controls, and service connections.
- E. Submit certification that the packaged rooftop air conditioning units, accessories, and components will withstand seismic forces defined in Section 23 05 50. Include the following:
 - 1. Basis for Certification: Indicate whether certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 - 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect units from physical damage by storing off site until roof mounting frames are in place, ready for immediate installation of units.

1.5 OPERATION AND MAINTENANCE DATA

- A. Submit operation and maintenance data.
- B. Include manufacturer's descriptive literature, installation instructions, maintenance and repair data, and parts listing.

1.6 WARRANTY

- A. Provide five (5) year manufacturer's warranty for compressors.
- B. Provide five (5) year manufacturer's warranty for heat exchanger.
- C. Provide one (1) year manufacturer's warranty for parts.

1.7 MAINTENANCE SERVICE

- A. Furnish complete service and maintenance of packaged roof top units for one year from Date of Substantial Completion.
- B. Provide maintenance service with a two-month interval as maximum time period between calls. Provide 24-hour emergency service on breakdowns and malfunctions.
- C. Include maintenance items as outlined in manufacturer's operating and maintenance data, including minimum of six filter replacements, minimum of one fan belt replacement, and controls check-out, adjustments, and recalibrations.
- D. Submit copy of service call work order or report, and include description of work performed.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Carrier (Basis of Design)
- B. Lennox
- C. Trane

2.2 MANUFACTURED UNITS

- A. Provide roof-mounted units having gas burner, and electric refrigeration.
- B. Unit shall be self-contained, packaged, factory assembled, pre-wired and tested, consisting of cabinet and frame, supply fan, heat exchanger and burner, controls, air filters, refrigerant cooling coil and compressor, condenser coil, condenser fan, and a full refrigerant charge.
- C. Unit shall be furnished with non-fused disconnect switch, short fuse protection of all internal electrical components, and all necessary motor starters, contactors, and over-current protection.

2.3 FABRICATION

- A. Cabinet: Galvanized steel with baked enamel finish, access doors or removable access panels with quick fasteners locking door handle type with piano hinges. Access doors shall be provided at each section (e.g., filter section, supply fan section, etc.). All exterior access panels must be permanently labeled on the outside indicating what is behind the panel. Structural members shall be minimum 18 gauge, with access doors or removable panels of minimum 20 gauge.
- B. Outside Air Intakes: The outside air intakes shall be located a minimum of 15 inches above the roof mounting curb to minimize the effect of heat pickup from the roof during the natural cooling cycle and the effects of snow on the roof during winter operation. Each air intake shall be furnished with rain eliminators.

- C. Insulation: Minimum of 1/2" thick, 1.5 lb./cu.ft. density coated glass fiber insulation on surfaces where conditioned air is handled. Protect edges from erosion.
- D. Heat Exchangers: Aluminized steel, of welded construction.
- E. Air Filters: Two inch thick glass fiber MERV 13 disposable media in metal frames.
- F. Roof Mounting Curb:
 - 1. Rigid Curb (3 to 5 ton units): Minimum 11 inches, minimum 14 gauge galvanized steel, one-piece construction, insulated, all welded, wood nailer. Refer to Plans.
 - 2. Vibration Isolator Curbs (Above 5 ton units): Minimum 11 inches, minimum 14 gauge galvanized steel, 2" Calydyn CQA deflection isolator type (OPM-0401-13), insulated, all welded, Refer to Plans.

2.4 FANS/MOTORS

- A. Supply Fan: Forward curved centrifugal type, resiliently mounted with V-belt drive, adjustable variable pitch motor sheave, and rubber isolated hinge mounted motor. All fan bearings must be capable of being lubricated by easily accessible grease fittings. GC models shall have the following: ECM design, permanently lubricated bearings, inherent automatic-reset thermal overload protection, and slow ramp up to speed capabilities.
- B. Belt drive fans must be within $\pm 10\%$ of scheduled RPM. (This is not applicable to GC models)
- C. All fans must be statically and dynamically balanced.
- D. Belt drive fans shall have slide rails, adjusting screws, anchor bolts, and bedplates.
- E. Motors shall be open drip-proof with grease lubricated bearings.
- F. Drives shall be V-belt type with adjustable pitch sheaves for units 20 HP and below. On units over 20 HP, use fixed sheaves. This Contractor shall provide replacement sheaves and belts as required to allow final air balancing. (This is not applicable to GC models)
- G. Units used with variable speed drives shall have fixed sheaves. This Contractor shall provide replacement sheaves and belts as required to allow final air balancing. (This is not applicable to GC models)
- H. No equipment shall be selected or operate above 90% of its motor nameplate rating.
- I. Motor shall have 1.15 service factor.

2.5 BURNER

- A. Gas Burner: Induced draft type burner with adjustable combustion air supply, pressure regulator, gas valves, manual shutoff, intermittent spark or glow coil ignition, flame sensing device, and automatic 100 percent shutoff pilot. Single stage or Two stage.
- B. Gas Burner Safety Controls: Energize ignition, limit time for establishment of flame, prevent opening of gas valve until pilot flame is proven, stop gas flow on ignition failure, energize blower motor, and after airflow proven and slight delay, allow gas valve to open.
- C. High Limit Control: Temperature sensor with fixed stop at maximum permissible setting, de-energize burner on excessive bonnet temperature and energize burner when temperature drops to lower safe value.
- D. Supply Fan Control: Temperature sensor sensing bonnet temperatures and independent of burner controls, or adjustable time delay relays with switch for continuous fan operation.

2.6 EVAPORATOR COIL

- A. Provide copper tube with aluminum fin coil assembly.
- B. Install a drain pan under each cooling coil meeting requirements as outlined in ASHRAE 62.1. The drain pans shall extend the entire width of each coil, including piping and header if in the air stream. The length shall be as necessary to limit water droplet carryover beyond the drain pan to 0.0044oz per ft² of face area per hour under peak sensible and peak dew point design conditions, considering both latent load and coil face velocity. Pitch drain pans in two directions towards the outlet, with a slope of at least 1/8" per foot.
- C. Provide capillary tubes or thermostatic expansion valves for units of 6 tons capacity and less, and thermostatic expansion valves and alternate row circuiting for units 7.5 tons cooling capacity and larger.
- D. Provide insulation on liquid refrigerant and suction piping between compressor and evaporator coil where not protected by drain pans. Insulation shall be elastomeric cellular foam; ANSI/ASTM C534; flexible plastic; 0.27 maximum 'K' value at 75°F, 25/50 flame spread/smoke developed rating when tested in accordance with ASTM E84 (UL 723). Maximum 1" thick per layer where multiple layers are specified.

2.7 COMPRESSOR

- A. Provide hermetic or semi-hermetic compressors (quantity as scheduled on drawings), 3600 rev/min maximum, resiliently mounted with positive lubrication, high and low pressure safety controls, motor overload protection, suction and discharge service valves and gauge ports, and filter drier.
- B. Five minute timed off circuit shall delay compressor start.
- C. Outdoor thermostat shall energize compressor above 50°F ambient.
- D. The use of chlorofluorocarbon (CFC)-based refrigerants is prohibited.

2.8 CONDENSER

- A. Provide copper tube aluminum fin coil assembly with sub-cooling rows.
- B. Provide direct drive propeller fans, resiliently mounted with fan guard, motor overload protection, wired to operate with compressor.
- C. Provide refrigerant pressure switches to cycle condenser fans.

2.9 MIXING SECTION

- A. Dampers: Provide outside and return, with damper operator and control package to automatically vary outside air quantity. Outside air damper shall fail to closed position.
- B. Gaskets: Provide tight fitting dampers with edge gaskets, maximum leakage 5 percent at 2 inches pressure differential. Gaskets must be mechanically fastened (use of adhesive alone shall not be acceptable).
- C. Damper Operator: 24 volt with gear train sealed in oil, with spring return on units 7.5 tons cooling capacity and larger.

2.10 ECONOMIZERS

- A. Factory installed by approved rooftop unit manufacturer with fully modulating motorized outside air and return air dampers.
- B. To be controlled by differential enthalpy controller with minimum position setting.

- C. Shall be equipped with 100% capable relief barometric damper relieving up to 100% return air and sealed to meet ASHRAE 90.1 requirements.
- D. Shall be capable of introducing up to 100% outside air.
- E. Shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
- F. Dampers shall be capable of completely closing when unit is in unoccupied mode.
- G. Outside air damper normally closed and return air damper normally open.
- H. Provide economizer components and controls in accordance with ICC IECC.

2.11 POWER EXHAUST

- A. Combination power exhaust and economizer: Factory installed by economizer supplier or compatible equivalent.
- B. Modulating type.
- C. Controlled by economizer controls.
- D. Power exhaust shall be factory wired to electrical section complete with conduit, feeders, disconnect, and overcurrent protection. Power exhaust shall be energized when dampers open past the adjustable setpoint of the economizer control.
- E. Must comply with ASHRAE 90.1 Fan Power Limitation formula.

2.12 ELECTRICAL

- A. Provide with single point power connection to service all controls, dampers, outlet, and fans, complete with non-fused disconnect switch, short circuit protection of all internal electrical components, and all necessary motor starters, contactors, and over-current protection, transformer, and convenience outlet. All units must be so constructed that when the electrical section access panel is opened, all electrical power to the unit (with the exception of the 120 volt duplex convenience outlet) is disconnected by means of a single disconnect.
- B. All wiring must be labeled, numbered, and terminate in "spade clips". All terminal strips must be keyed to the wiring numbers. Each control device must be permanently labeled to indicate its function.
- C. Wiring diagrams for all circuits must be permanently affixed to the inside of the electrical section access panel. The markings of terminal strips and wiring must agree with the numbering on the wiring diagrams.
- D. All units shall include a transformer for controls and convenience outlet.
- E. Only one power cable connection to the unit shall be necessary.
- F. Provide separate power connection to power exhaust.

2.13 DDC TEMPERATURE CONTROLS

- A. Install standalone control module providing communication between unit controls and DDC temperature control system. Control module shall be compatible with temperature control system specified in Section 23 09 00.

2.14 COATINGS:

- A. Apply marine coating by certified licensed applicator.

- B. The coating product manufacturer shall be able to document a class 5B result on a cross hatch adhesion test (ASTM D5339) and the testing for a minimum 4000 hours in both salt spray (ASTM B117) and acid salt spray (ASTM G85) test.
- C. The coating service provider shall also be able to offer a 3-year conditioned warranty for coating applied on finned-tube coils.
- D. The coating shall be applied insuring total penetration and coverage without bridging or significantly affecting the heat transfer ability of the coil.
- E. The total dry film thickness of the coating shall be 1mil.
- F. The coating shall provide inherent protection against ultra-violet radiation and have a dry temperature resistance from -4°F to 302°F.
- G. The following components shall be coated:
 - 1. Evaporator coils
 - 2. Condenser coils
 - 3. Base Rails
 - 4. Exterior cabinet
- H. Acceptable Manufacturers:
 - 1. Luvata "Tropicoat" or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that roof is ready to receive work and opening dimensions are as indicated on shop drawings and illustrated by the manufacturer.
- B. Verify that proper power supply is available.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Mount units on factory built roof mounting frame providing watertight enclosure to protect ductwork and utility services. Install roof mounting frame level.
- C. All field wiring shall be in accordance with the National Electrical Code.
- D. P-traps must be provided for all drain pans.
- E. Comb all coils to repair bent fins.
- F. Install on vibration isolation as scheduled on drawings.
- G. Contractor shall coordinate unit access stair and walkway placement to ensure compliance with OSHA requirements.

3.3 MANUFACTURER'S FIELD SERVICES

- A. Provide initial start-up and shutdown during first year of operation, including routine servicing and check-out.

END OF SECTION

SECTION 23 81 26

SPLIT SYSTEM AIR CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Split system air conditioning wall, ceiling-mounted, and/or ceiling-concealed units.

1.2 SUBMITTALS

- A. Submit shop drawings under provisions of Section 23 05 00.
- B. Indicate drain, electrical, and refrigeration rough-in connections on shop drawings or product data.
- C. Submit manufacturer's installation instructions.
- D. Submit certification that split system air conditioning equipment, accessories, and components will withstand seismic forces defined in Section 23 05 50. Include the following:
 - 1. Basis for Certification: Indicate whether certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 - 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Accept units and components on site in factory protective containers, with factory shipping skids and lifting lugs. Inspect for damage.
- B. Comply with manufacturer's installation instruction for rigging, unloading, and transporting units.
- C. Protect units from weather and construction traffic by storing in dry, roofed location until units are ready for immediate installation.

1.4 REGULATORY REQUIREMENTS

- A. Conform to ANSI/NFPA 90A for the installation of computer room air conditioning units.
- B. Conform to ASHRAE 90.1 (latest published edition) - Energy Standard for Buildings Except Low-Rise Residential Buildings.

1.5 OPERATION AND MAINTENANCE DATA

- A. Submit operation and maintenance data.
- B. Include manufacturer's descriptive literature, operating instructions, installation instructions, and maintenance and repair data.

1.6 WARRANTY

- A. Provide five (5) year manufacturer's warranty on all compressors.

PART 2 - PRODUCTS

2.1 SPLIT SYSTEM WALL AND CEILING-MOUNTED UNITS

A. Acceptable Manufacturers:

1. Carrier
2. Mitsubishi
3. Trane

B. Manufactured Units:

1. Provide packaged, air-cooled, factory assembled, pre-wired and pre-piped unit consisting of cabinet, fans, filters, remote condensing unit, and controls. Wall-mounted units shall be furnished with integral wall mounting bracket and mounting hardware.
2. Assemble unit for wall-mounted or ceiling installation with service access required.
3. Performance shall be as scheduled on the drawings.
4. Unit shall be rated per AHRI Standards 210/240 and listed in the AHRI directory as a matched system.
5. Provide unit with factory-supplied cleanable air filters.
6. The units shall be listed by Electrical Laboratories (ETL) in accordance with UL-1995 certification and bear the ETL label.
7. All wiring shall be in accordance with the National Electric Code (NEC).

C. Evaporator Cabinet and Frame:

1. Cabinet:
 - a. Refer to schedule on drawings for mounting type (wall-mounted, or ceiling-recessed cassette).
 - b. Exposed units shall have a finished appearance with concealed refrigerant piping, condensate drain piping, and wiring connections.
2. Air Distribution Panel (for ceiling-mounted units): Heavy molded plastic 4-way discharge plenum with return air grille and unit filter. Designed for installation into T-bar ceiling system, 24" x 24" size.

D. Evaporator Fans and Motors:

1. Fans:
 - a. The evaporator fan shall be direct drive with a single motor having permanently lubricated bearings.
 - b. The fan shall be statically and dynamically balanced.
 - c. The indoor fan shall have at least three speeds.
2. Motor:
 - a. Direct driven, digitally controlled with multiple speeds. Permanently lubricated with internal overload protection.

- E. Evaporator Coils (Direct Expansion):
1. Direct expansion cooling coil of seamless copper tubes expanded into aluminum fins.
 2. Single refrigeration circuit with externally equalized expansion valve.
 3. Coils shall be pressure tested at the factory.
 4. A sloped, corrosion-resistant condensate pan with drain shall be provided under the coil.
- F. Electrical Panel:
1. Service Connections, Wiring, and Disconnect Requirements: Conform to the National Electrical Code and local electrical codes.
- G. Control:
- a. The unit shall have a hard-wired 7-day programmable remote controller to operate the system. Provide wall mounting bracket for controller.
 - b. Remote controller shall have “automatic”, “dry” (dehumidification), and “fan only” operating modes.
 - c. The remote controller shall have the following features:
 - 1) *On/Off* power switch.
 - 2) *Mode Selector* to operate the system in auto, cool, heat, fan, or dehumidification (dry) operation.
 - 3) *Fan Setting* to provide multiple fan speeds.
 - 4) *Swing Louver* for adjusting supply louver discharge.
 - 5) *On/Off Timer* for automatically switching the unit off or on.
 - 6) *Temperature Adjustment* allows for the increase or decrease of the desired temperature.
 - 7) *Powerful Operation* to allow quick cool down or heating up in the desired space to achieve maximum desired temperature in the shortest allowable time.
 - d. The remote controller shall perform fault diagnostic functions that may be system related, indoor or outdoor unit related depending on the fault code.
 - e. Temperature range on the remote controller shall be 64°F to 90°F in cooling mode and 50°F to 86°F in heating mode.
 - f. The indoor unit microprocessor shall have the capability to receive and process commands via return air temperature and indoor coil temperature sensors enabled by commands from the remote controller.
- H. Outdoor Unit:
1. General:
 - a. The outdoor unit shall be specifically matched to the corresponding indoor unit size. The outdoor unit shall be completely factory assembled and pre-wired with all necessary electronic and refrigerant controls.
 2. Cabinet:
 - a. The outdoor unit shall be fabricated of galvanized steel, bonderized and coated with a baked enamel finish for corrosion protection.

3. Fan:
 - a. The fan shall be direct drive, propeller type fan with fan guard.
 - b. Fan blades shall be statically and dynamically balanced.
 - c. The fan shall have permanently lubricated type bearings.
 - d. Motor shall be protected by internal thermal overload protection.
 - e. Airflow shall be horizontal discharge.
4. Coil:
 - a. The outdoor coil shall be nonferrous construction with corrugated fin tube.
 - b. The coil shall be protected with an internal guard.
 - c. Refrigerant flow from the condenser shall be controlled via a metering device.
5. Compressor:
 - a. Hermetic or scroll refrigerant compressors with resilient suspension system, oil strainer, sight glass/moisture indicator, internal motor protection, high pressure switch, and crankcase heater.
 - b. The outdoor unit shall have an accumulator and four-way reversing valve.
6. Refrigerant:
 - a. Unit shall use R-410a.
 - b. The use of chlorofluorocarbon (CFC)-based refrigerants is prohibited.
- I. Condensate Pump: Provide condensate pump.
- J. Refrigerant Piping:
 1. Design Pressure: 450 psig.
 2. Maximum Design Temperature: 250 F.
 3. Piping - 4" and under.
 - a. Tubing: Type ACR seamless copper tube linesets, ASTM B1003. Sizes indicated are nominal designation.
 - b. Joints: Brazed with silver solder.
 - c. Fittings: Wrought copper solder joint, ANSI B16.22.
 - d. Special Requirements: All tubing shall be cleaned, dehydrated, pressurized with dry nitrogen, plugged, and tagged by manufacturer "for refrigeration service". During brazing operations, continuously purge the interior of the pipe with nitrogen to prevent oxide formation.
 4. Insulation:
 - a. EPDM (NBR/PVC Blend is not permitted) elastomeric cellular foam; ANSI/ASTM C534; flexible plastic; 0.25 maximum 'K' value at 75°F, 25/50 flame spread/smoke developed rating when tested in accordance with ASTM E84 (UL 723). Minimum 1/2" thick for pipe sizes < 1-1/4" and 3/4" thick for pipe sizes 1-1/4" and above.

K. COATINGS:

- a. Apply marine coating by certified licensed applicator.
- b. The coating product manufacturer shall be able to document a class 5B result on a cross hatch adhesion test (ASTM D5339) and the testing for a minimum 4000 hours in both salt spray (ASTM B117) and acid salt spray (ASTM G85) test.
- c. The coating service provider shall also be able to offer a 3-year conditioned warranty for coating applied on finned-tube coils.
- d. The coating shall be applied insuring total penetration and coverage without bridging or significantly affecting the heat transfer ability of the coil.
- e. The total dry film thickness of the coating shall be 1mil.
- f. The coating shall provide inherent protection against ultra-violet radiation and have a dry temperature resistance from -4°F to 302°F.
- g. The following components shall be coated:
 1. Condenser coils
 2. Exterior cabinet
 3. Base rails
- h. Acceptable Manufacturers:
 1. Luvata "Tropicoat" or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that proper power supply is available.

3.2 INSTALLATION

A. General Installation Requirements:

1. Install units in accordance with manufacturer's instructions. Install all units level and plumb. Indoor units shall be installed using manufacturer's standard mounting hardware securely fastened to building structure.
2. Refer to Section 23 05 29 for roof support rails for outdoor unit.
3. Coordinate the exact mounting location of all indoor and outdoor units with architectural and electrical work. Coordinate installation of ceiling-mounted units with ceiling grid layout. Provide additional ceiling grid reinforcement or modification as required and coordinate the work with the GC. Locate the indoor unit where it is readily accessible for maintenance and filter changes. Where outdoor units are located on the roof, locate at least 10' from the roof edge.
4. Verify locations of wall-mounted remote controllers with drawings and room details before installation. Coordinate mounting heights to be consistent with other wall-mounted devices. Height above finished floor shall not exceed 48".

- B. Refrigerant Piping:
1. Install refrigerant piping from the indoor unit(s) to the condensing unit. Refrigerant pipe sizes, lengths, specialties and configurations shall be as recommended by the manufacturer. Evacuate refrigerant piping and fully charge system with refrigerant per manufacturer's requirements.
 2. Provide weather-tight insulated roof curb to accommodate refrigerant piping and conduit roof penetrations.
 3. Insulate all refrigerant piping. Both liquid and suction lines shall be insulated between the indoor and outdoor units.
- C. Condensate Removal:
1. Install condensate piping with trap and route from drain pan to nearest drain. Discharge to nearest code-approved receptor or to a properly vented indirect waste fitting. Flush all piping before making final connections to units.
- D. Comb all coils to repair bent fins.
- E. Install new filters in the unit at Substantial Completion.
- F. A factory-authorized service agent shall assist in commissioning the unit and inspecting the installation prior to startup. Submit startup report with O&M manuals.

END OF SECTION

SECTION 23 81 45

VARIABLE REFRIGERANT FLOW HEAT PUMPS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Variable refrigerant flow split system heat pump (heat/cool).
- B. Variable refrigerant flow split system heat pump with heat recovery (simultaneous heat/cool).

1.2 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 23 05 00.
- B. Indicate water, drain, and electrical rough-in connections on shop drawings or product data.
- C. Submit manufacturer's installation instructions.
- D. Submit manufacturer's warranty information.
- E. Submit installing contractor's manufacturer training certification.
- F. Submit refrigerant charge. Charge calculation should be based on installed piping lengths and equipment capacities.
- G. VRF Piping Layout Drawings:
 - 1. Submit detailed VRF piping layout drawings at 1/8" = 1'-0" minimum scale complete with the following information:
 - a. Actual pipe routing, fittings, hanger and support types, accessories, etc. with lengths and refrigerant charge noted.
 - b. Include insulation thickness and type of insulation.
 - c. Room names and numbers, ceiling types, and ceiling heights.
 - d. Indicate location of all beams, bar joists, etc., along with bottom of steel elevations, for each member.
 - 2. Submit VRF piping and equipment layout drawings. Verify clearances and interferences with other trades prior to preparing drawings. IMEG will provide electronic copies of piping drawings for Contractor's use if the Contractor signs and returns an "Electronic File Transfer" waiver provided by IMEG. IMEG will not consider blatant reproductions of original file copies an acceptable alternative for this submittal. Submittals shall be in accordance with Section 23 05 00.
- H. Submit Controls Diagrams:
 - 1. Wiring diagrams and layouts for each control panel showing all termination numbers.
 - 2. Schematic diagrams for all control, communication, and power wiring. Provide a schematic drawing of the central system installation. Show all interface wiring to the control system.
 - 3. Schematic diagrams for all field sensors and controllers.

4. A schematic diagram of each controlled system. The schematics shall have all control points labeled. The schematics shall graphically show the location of all control elements in the system.
 5. A schematic wiring diagram for each controlled system. Each schematic shall have all elements labeled. Label all terminals.
 6. All installation details and any other details required to demonstrate that the system will function properly.
 7. All interface requirements with other systems.
- I. Sequences: Submit a complete description of the operation of the control system, including sequences of operation. The description shall include and reference a schematic diagram of the controlled system. **The wording of the control sequences in the submittal shall match verbatim that included in the construction documents to ensure there are no sequence deviations from that intended by the Architect/Engineer. Clearly highlight any deviations from the specified sequences on the submittals.**
 - J. Control System Demonstration and Acceptance: Provide a description of the proposed process, along with all reports and checklists to be used.
 - K. Clearly identify work by others in the submittal.
 - L. Quantities of items submitted may be reviewed but are the responsibility of the Contractor to verify.
- 1.3 DELIVERY STORAGE AND HANDLING
- A. Protect finished cabinets from physical damage by leaving factory packing cases in place before installation and providing temporary covers after installation.
- 1.4 OPERATION AND MAINTENANCE DATA
- A. Submit operation and maintenance data.
 - B. Include manufacturer's descriptive literature, operating instructions, installation instructions, and maintenance and repair data.
- 1.5 WARRANTY
- A. Installing contractor shall perform tasks required by manufacturer to ensure maximum available warranty is achieved. This will include but is not limited to:
 1. System design performed by manufacturer certified designer.
 2. System installation performed by manufacturer certified installer.
 3. Complete system commissioning paperwork and submit to manufacturer.
 - B. Provide minimum five (5) year manufacturer's parts warranty (one-year basic warranty plus four-year extended warranty) on all parts (excluding compressors) and one (1) year labor warranty.
 - C. Provide minimum five (5) year manufacturer's compressor parts warranty.
 - D. Contractor shall provide one (1) year parts and labor warranty on the associated controls system, including all devices, wiring, and programming.
- 1.6 DEMONSTRATION
- A. Engage manufacturer or factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain individual units and complete system.

PART 2 - PRODUCTS:

2.1 ACCEPTABLE MANUFACTURERS

- A. Toshiba Carrier
- B. Mitsubishi

2.2 SYSTEM DESCRIPTION

- A. The variable capacity, heat recovery, heat pump air conditioning system shall be a variable refrigerant flow split system. The system shall consist of multiple evaporators using PID control and inverter driven outdoor unit. The unit shall consist of direct expansion (DX), air-cooled heat pump air conditioning system, and variable speed driven compressor multi zone split system.
- B. Outdoor Unit - General: The outdoor unit is designed specifically for use with the manufacturer's components:
 - 1. Refrigerant: R410A.
 - 2. The outdoor unit shall be factory assembled and pre-wired with all necessary electronic and refrigerant control. The refrigeration circuit of the outdoor unit shall consist of a compressor, motors, fans, condenser coil, electronic expansion valves, oil separators, service ports, liquid receivers, and accumulators.
 - 3. All refrigerant lines shall be individually insulated between the outdoor and indoor units.
 - 4. The connection ratio of the nominal capacity of indoor units to outdoor unit shall be 50-130%.
 - 5. The sound pressure shall be no greater than 63 dBA at 4 feet from the outdoor unit at full load at fan height.
 - 6. The system shall automatically restart operation after a power failure and shall not cause any settings to be lost, thus eliminating the need for re-programming.
 - 7. The following safety devices shall be included on the outdoor unit: high pressure switch, control circuit fuses, crankcase heaters, fusible plug, high pressure switch, overload relay, inverter overload protector, thermal protectors for compressor and fan motors, over current protection for the inverter and anti-recycling timers. To ensure the liquid refrigerant does not flash when supplying to the various indoor units, the circuit shall be provided with a sub-cooling feature. Oil recovery cycle shall be automatic as required to maintain oil levels at the outdoor unit.
 - 8. The outdoor unit shall be able to operate in heating mode to -4°F dry bulb ambient temperature without additional ambient controls.
 - a. Heating capacity at design condition of -5°F shall be no less than 50% of the value scheduled on the drawings
 - 9. The outdoor unit shall have air cooled heat exchange coils constructed from copper tubing with aluminum fins. The coils shall be capable of being divided into sections to enable the outdoor unit to match the capacity required by the indoor units and to allow individual defrosting to take place as required.
 - 10. The outdoor unit shall have at least one inverter controlled compressor and at least one high efficiency constant speed compressor, depending on scheduled capacity. The system shall use a control sequence to ensure that indoor loads are matched to the compressor capacity control.

11. The refrigeration process of the outdoor unit will be maintained by pressure and temperature sensors controlling solenoid valves, check valves, and bypass valves. The heating or cooling mode of the outdoor unit will be controlled using a combination of 2 and 3-way valves that shall reverse the cycle of the refrigerant to change the mode of the outdoor unit.
 12. Unit Cabinet: The outdoor unit model shall be completely weatherproof and corrosion resistant. The outdoor unit shall be constructed from steel plate and treated with an anti-corrosive paint.
 13. Fan:
 - a. The outdoor unit shall consist of propeller type, direct-drive fan motors that have multiple speed operation via a DC inverter.
 - b. The fans shall be a vertical discharge. The fan motors shall have inherent protection and permanently lubricated bearings.
 - c. The fans shall be provided with fan guards.
 14. Condenser Coil: The condenser coil shall be manufactured from copper tubes expanded into aluminum fins to form a mechanical bond.
 15. Compressor:
 - a. The variable speed compressor shall be capable of changing the speed to follow the variations in total cooling load as determined by the suction gas pressure as measured in the outdoor unit.
 - b. The inverter driven compressor in each outdoor unit shall be DC, hermetically sealed, scroll type.
 - c. The capacity control range shall be a minimum of 20% to 100% of total capacity.
 - d. Each compressor shall be equipped with a crankcase heater, high pressure safety switch, and internal thermal overload protector.
 - e. Oil separators shall be standard with the equipment, together with an oil balancing circuit.
 - f. The compressor shall be mounted to avoid the transmission of vibration.
- C. Branch Selector:
1. The unit shall be constructed from galvanized steel plate and be internally insulated with polyurethane foam. The connection to the system shall be either via brazed connection or flare nuts.
 2. The unit shall be connected to the indoor units or group of indoor units via its own dedicated connection. This connection shall supply power and control signals to the solenoid valves in the unit.
 3. The unit shall have integral controls and be factory assembled, wired, and piped.
 4. The unit shall include an integral drain pan and condensate pump as required.
 5. The unit electrical power shall be 208-230V/1-phase/60Hz or as noted on the drawings.
 6. Provide unit with at least two (2) additional unused connections for future expansion and maintenance. Provide isolation valves and caps on unused connections.

D. Oil Recovery System:

1. System shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping.
2. System shall be designed for proper oil return to compressor, along with distribution of oil to individual compressor.

E. Indoor Units:

1. General – Each indoor unit shall have a heat exchanger that shall be constructed from copper tubing with aluminum fins. The flow of refrigerant through the heat exchanger shall be controlled by an electronic modulating expansion valve. This valve shall be controlled by internal temperature sensors and shall be capable of controlling the variable capacity of the indoor unit between at least 25% and 100%. The units shall be shipped from the factory fully charged with dehydrated air.
2. Four-way Ceiling-Recessed Cassette:
 - a. The indoor unit shall be a ceiling cassette for installation into the ceiling cavity, equipped with an air panel grille as scheduled and specified in this section. The indoor unit shall have four-way air distribution and an ivory white, impact resistant, washable decoration panel. The supply air shall be distributed via motorized louvers that can be horizontally and vertically adjusted from 0° to 90° angle.
 - b. Acoustic Performance: The indoor units' sound pressure shall not exceed 33 dBA at low speed measured at 5 feet from the unit.
 - c. Construction:
 - 1) The indoor unit shall be completely factory assembled and tested. The unit shall include factory wiring, piping, electronic modulating expansion valve, control circuit board, fan motor thermal protector, flare connections, condensate drain pan, condensate drain pump, self-diagnostics, auto-restart function, 3-minute fused time delay, and test run switch.
 - 2) The 4-way supply airflow shall be field modifiable to 3-way and 2-way airflow to accommodate various installation configurations, including corner installations.
 - 3) Return air shall be through the concentric panel, which shall include a filter.
 - 4) The indoor units shall be equipped with a return air thermistor.
 - 5) The indoor unit shall be separately powered.
 - d. Unit Cabinet:
 - 1) The cabinet shall be space saving and shall be recessed into the ceiling.
 - 2) Provide fresh air intake kit where used and indicated on the drawings. A branch duct knockout shall exist for branch ducting supply air.
 - 3) The cabinet shall be constructed with sound absorbing foamed polystyrene and polyethylene insulation.

- e. Fan:
 - 1) The fan shall be direct-drive type, with statically and dynamically balanced impeller with high and low fan speeds available.
 - 2) The fan motor shall be thermally protected.
 - f. Filter: The return air shall be filtered by a washable long-life filter with mildew proof resin.
 - g. Coil:
 - 1) Coils shall be of the direct expansion type, constructed from copper tubes expanded into aluminum fins to form a mechanical bond.
 - 2) The refrigerant connections shall be flare connections and the condensate shall be coordinated with piping material specified in Section 23 21 00.
 - 3) A condensate pump with at least 18 inches lift shall be located below the coil in the condensate pan, with a built-in high-level safety alarm to shut down the unit.
 - 4) A thermistor shall be located on the liquid and gas line.
3. Ceiling Concealed Ducted (Low Static Pressure):
- a. The indoor unit shall be a built-in ceiling concealed indoor unit, low static pressure (LSP), for installation into the ceiling cavity. The unit shall be constructed of a galvanized steel casing to be connected to a heat pump outdoor unit. The indoor unit shall be manufactured for ducted horizontal discharge air, with ducted horizontal return air or bottom return air configuration (as scheduled or shown on the drawings). The external static pressure shall be as scheduled on the drawings.
 - b. Acoustic Performance: The indoor units' sound pressure shall not exceed 31 dBA at low speed 5 feet from the unit.
 - c. Construction:
 - 1) The indoor unit shall be completely factory assembled and tested. The unit shall include factory wiring, piping, electronic modulating expansion valve, control circuit board, fan motor thermal protector, flare connections, condensate drain pan, condensate drain pump, self-diagnostics, auto-restart function, 3-minute fused time delay, and test run switch.
 - 2) The indoor units shall be equipped with a return air thermistor.
 - 3) The indoor unit shall be separately powered.
 - 4) The switch box shall be reached from the side or bottom for ease of service and maintenance.
 - d. Unit Cabinet:
 - 1) The cabinet shall be in the ceiling and ducted to the supply and return openings.
 - 2) The cabinet shall be constructed with sound absorbing foamed polystyrene and polyethylene insulation.

- e. Fan:
 - 1) The fan shall be direct-drive type, with statically and dynamically balanced impeller with high and low fan speeds.
 - 2) The fan motor shall be thermally protected.
- f. Filter: The return air shall be filtered by means of a washable long-life filter with mildew proof resin.
- g. Coils:
 - 1) Coils shall be of the direct expansion type, constructed from copper tubes expanded into aluminum fins to form a mechanical bond.
 - 2) The refrigerant connections shall be flare connections, and the condensate shall be coordinated with piping material.
 - 3) A condensate pump with at least 18 inches of lift shall be located below the coil in the condensate pan, with a built-in high-level safety alarm to shut down the unit.
 - 4) A thermistor shall be located on the liquid and gas line.
- 4. Ceiling Concealed Ducted (High Static Pressure):
 - a. The indoor unit shall be a built-in ceiling concealed indoor unit, high static pressure (HSP), for installation into the ceiling cavity. The unit shall be constructed of a galvanized steel casing to be connected to a heat pump outdoor unit. The indoor unit shall be manufactured for ducted horizontal discharge air, with ducted horizontal return air or bottom return air configuration (as scheduled or shown on the drawings). The external static pressure shall be as scheduled on the drawings.
 - b. Acoustic Performance: The indoor units' sound pressure shall not exceed 31 dBA at low speed 5 feet from the unit.
 - c. Construction:
 - 1) The indoor unit shall be completely factory assembled and tested. The unit shall include factory wiring, piping, electronic modulating expansion valve, control circuit board, fan motor thermal protector, flare connections, condensate drain pan, condensate drain pump, self-diagnostics, auto-restart function, 3-minute fused time delay, and test run switch.
 - 2) The indoor units shall be equipped with a return air thermistor.
 - 3) The indoor unit shall be separately powered.
 - 4) The switch box shall be reached from the side or bottom for ease of service and maintenance.
 - d. Unit Cabinet:
 - 1) The cabinet shall be in the ceiling and ducted to the supply and return openings.
 - 2) The cabinet shall be constructed with sound absorbing foamed polystyrene and polyethylene insulation.

- 3) The cabinet shall be factory insulated for use in unconditioned indoor spaces.
- e. Fan:
 - 1) The fan shall be direct-drive type, with statically and dynamically balanced impeller with high and low fan speeds.
 - 2) The fan motor shall be thermally protected.
- f. Filter: The return air shall be filtered by means of a washable long-life filter with mildew proof resin.
- g. Coils:
 - 1) Coils shall be of the direct expansion type, constructed from copper tubes expanded into aluminum fins to form a mechanical bond.
 - 2) The refrigerant connections shall be flare connections, and the condensate shall be coordinated with piping material specified in Section 23 21 00.
 - 3) A condensate pump with at least 18 inches of lift shall be located below the coil in the condensate pan, with a built-in high-level safety alarm to shut down the unit.
 - 4) A thermistor shall be located on the liquid and gas line.

2.3 PIPING

- A. Design Pressure: 450 psig.
 1. Maximum Design Temperature: 250 F.
- B. Piping - 4" and under.
 1. Tubing: Type ACR hard drawn seamless copper tube, ASTM B280. Sizes indicated are nominal designation.
 2. Joints: Brazed with silver solder.
 3. Fittings: Wrought copper solder joint, ANSI B16.22.
 4. Special Requirements: All tubing shall be cleaned, dehydrated, pressurized with dry nitrogen, plugged and tagged by manufacturer "for refrigeration service". During brazing operations, continuously purge the interior of the pipe with nitrogen to prevent oxide formation.
- C. Insulation:
 1. EPDM (NBR/PVC Blend is not permitted) elastomeric cellular foam; ANSI/ASTM C534; flexible plastic; 0.25 maximum 'K' value at 75°F, 25/50 flame spread/smoke developed rating when tested in accordance with ASTM E84 (UL 723). If thickness required in Part 4 - Execution does not meet 25/50 flame spread/smoke developed rating, use multiple layers of a thickness that does meet 25/50 flame spread/smoke developed.

2.4 COATINGS:

- A. Apply marine coating by certified licensed applicator.

- B. The coating product manufacturer shall be able to document a class 5B result on a cross hatch adhesion test (ASTM D5339) and the testing for a minimum 4000 hours in both salt spray (ASTM B117) and acid salt spray (ASTM G85) test.
- C. The coating service provider shall also be able to offer a 3-year conditioned warranty for coating applied on finned-tube coils.
- D. The coating shall be applied insuring total penetration and coverage without bridging or significantly affecting the heat transfer ability of the coil.
- E. The total dry film thickness of the coating shall be 1mil.
- F. The coating shall provide inherent protection against ultra-violet radiation and have a dry temperature resistance from -4°F to 302°F.
- G. The following components shall be coated:
 - 1. Condenser coils
 - 2. Base Rails
 - 3. Exterior cabinet
- H. Acceptable Manufacturers:
 - 1. Luvata "Tropicoat" or approved equal.

PART 3 - CONTROLS

3.1 GENERAL

- A. The unit shall have controls provided with the unit by the manufacturer to perform input functions necessary to operate the system.
- B. Computerized PID control shall be used to maintain room temperature within 1°F of setpoint.
- C. The unit shall be equipped with a programmable drying cycle that dehumidifies while inhibiting changes in room temperature.
- D. The indoor circuit board shall be wired to enable auxiliary heating when at least one of the following occurs:
 - 1. Coil thermistor temperature drops below a factory setpoint in heating mode.
 - 2. Outdoor temperature drops below setpoint (adj.).
 - 3. Based on a user adjustable schedule.

3.2 SYSTEM CONTROLLER – TYPE C

- A. The controller shall control at least 50 units and shall be able to be used in conjunction with all room controller types. Collective and individual group commands are available with permit/prohibit individual remote controller function. At least five system controllers shall be able to reside on any one communication bus.

3.3 MAINTENANCE ACCESS

- A. Provide all gateways and connection cabling for performing maintenance functions on system.
- B. Provide all software and registration codes as required to allow access into advanced maintenance functions.

3.4 SEQUENCE

- A. Install a remote mounted temperature sensor.
- B. The thermostat shall stage heating or cooling as required to maintain space setpoint at 72°F (adj.).
- C. Thermostat shall automatically change the indoor unit mode based on the space setpoint.
- D. If space setpoint continues to drop once indoor unit has been changed to heating mode, the thermostat shall enable the space electric baseboard heat.
- E. Central controller shall enable dedicated outdoor unit based on an adjustable occupancy schedule. Coordinate enable/disable function with AHU manufacturer.

3.5 SYSTEM INTEGRATION

- A. The manufacturer's control system shall be capable of integrating with the building automation system with built in hardware or separate add-on interfaces. All additional devices shall be provided by the manufacturer.
- B. The system shall be compatible with BACnet. Refer to Section 23 09 00.

PART 4 - EXECUTION

4.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions. Install all piping, fittings, and insulation to meet manufacturer's requirements. Install units level and plumb. Evaporator fan components shall be installed using manufacturer's standard mounting devices securely fastened to building structure. Install and connect refrigerant tubing and fittings.
- B. Installing contractor shall attend manufacturer sponsored training to obtain installation certification.
- C. Installer shall supply isolation ball valves for zoned refrigerant isolation. Installer shall supply isolation ball valves with Schrader connection for isolating refrigerant charge and evacuation at each connected indoor unit and outdoor unit. Isolation ball valves, with Schrader connection, are required for instances of indoor unit isolation for troubleshooting, repair, or replacement without affecting the remainder of the system. Isolation ball valves with Schrader connection are also required at outdoor unit connection to isolate unit for troubleshooting, repair, or replacement and as required to provide partial capacity heating/cooling in the instance of a failure of one of the multiple outdoor unit compressors.
- D. Insulate all refrigerant pipes between the outdoor and indoor units. This includes the liquid pipe, the suction pipe, the hot gas pipe, and the high/low pressure gas pipe. All fittings, valves, and specialty refrigerant components in the piping between the indoor and outdoor units shall also be insulated. The insulation shall have a continuous vapor barrier and shall pass through hangers and supports unbroken. Over size hangers and supports to allow the insulation to pass through unbroken. Following are the minimum insulation thicknesses unless noted otherwise in the manufacturer's literature or required by local AHJ:

Pipe System	Insulation Thickness
Refrigerant Gas (from branch selector to indoor unit) All sizes	1/2"
Refrigerant Suction (40°F & Above) Up to 1-1/2" 1-1/2" and up	1/2" 1"
Refrigerant High/Low Pressure Gas Up to 1" 1-1/2" and up	1-1/2" 2"

Pipe System	Insulation Thickness
Refrigerant Liquid Up to 1-1/2" 1" and up	1" 1-1/2"

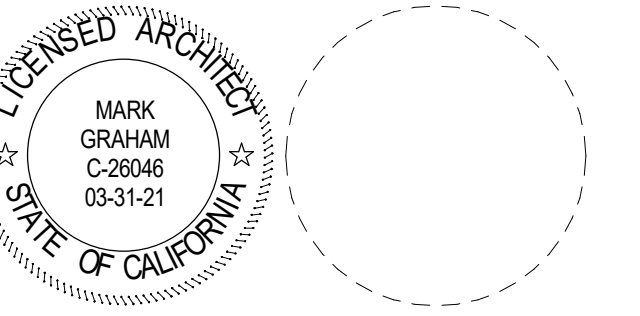
- E. Engage manufacturer or factory-authorized service representative to perform startup service. Manufacturer shall provide on-site startup and commissioning assistance through job completion. Complete installation and startup checks according to manufacturer's written instructions.
- F. Fully charge system with refrigerant per manufacturer's requirements.
- G. Field Quality Control:
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including connections, and to assist in field testing.
 - 2. Perform the following field tests and inspections, and prepare test reports:
 - a. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - b. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - c. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- H. Coordinate installation of units with architectural and electrical work. Coordinate installation of ceiling recessed units with ceiling grid layout. Additional ceiling grid reinforcement or modification is the responsibility of the Mechanical Contractor and shall be coordinated with the General Contractor.
- I. Verify locations of wall-mounted devices (such as thermostats, temperature and humidity sensors, and other exposed sensors) with drawings and room details before installation. Coordinate mounting heights to be consistent with other wall-mounted devices. Height above finished floor shall not exceed 48".
- J. Contractor is responsible for routing all condensate drains from all indoor equipment to a nearby floor drain or standpipe. If ceiling heights or space finish does not accommodate gravity drainage, Contractor is responsible for providing a condensate pump and all electrical work required.
- K. Contractor is responsible for installing VRF heat pump control system. Contractor shall coordinate with the Temperature Controls Contractor to determine extent of integration with building automation system (BAS). Equipment that is required to integrate the VRF heat pump system with the BAS is the responsibility of the VRF heat pump installing contractor. Final connections between VRF heat pump system and BAS shall be by the Temperature Controls Contractor.

END OF SECTION

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1	08/25/20	ADDENDUM 1

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: JY CHECKED: SJ
DATE: 02/26/2020 SCALE: As indicated
PROJECT NUMBER: 1917000

**DEMO ROOF
PLAN - BLDG C**

DRAWING NUMBER: **AC4.0**

REFERENCE NOTES

KEYNOTE	DESCRIPTION
0119	(E) ROOF HATCH

EXISTING WALKING MATS

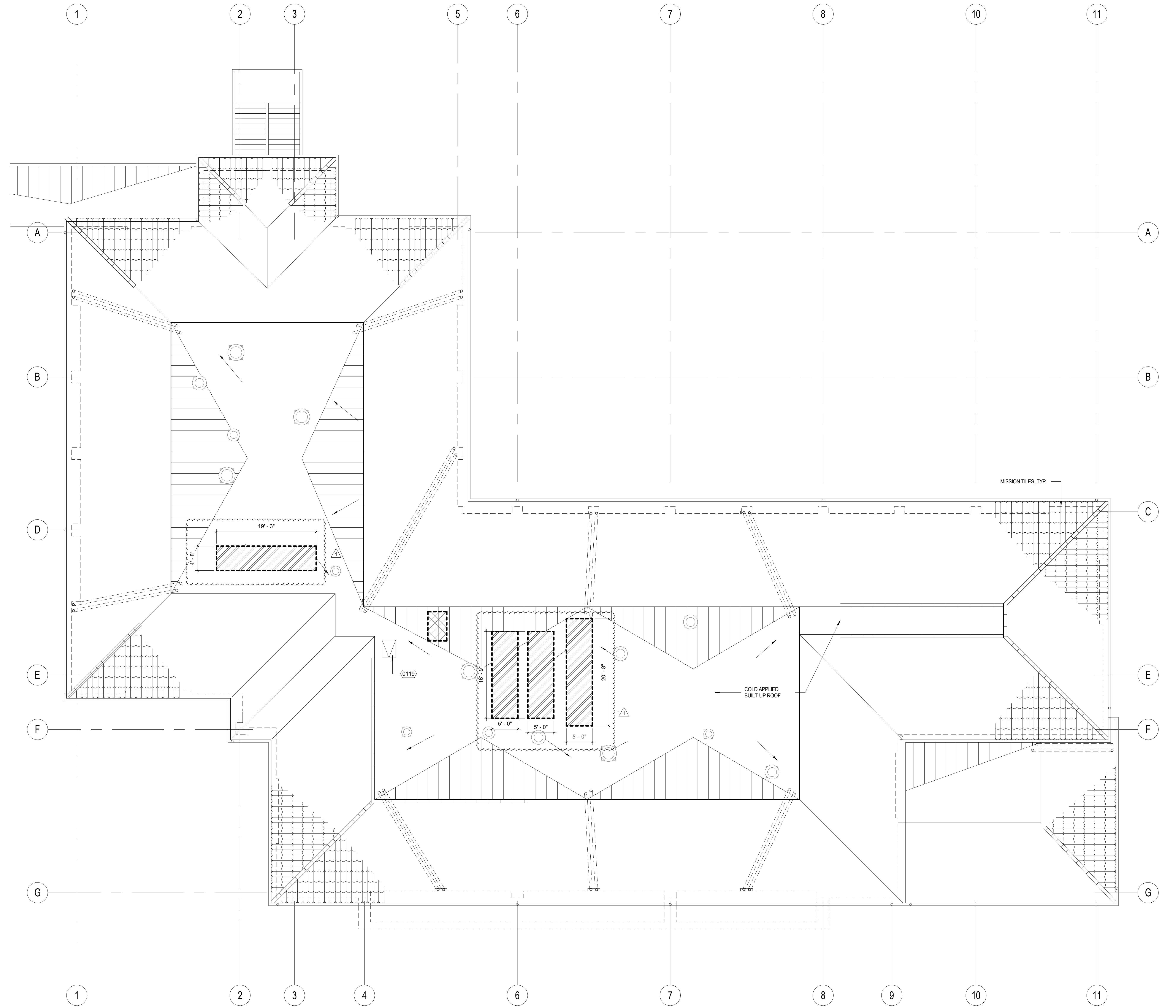
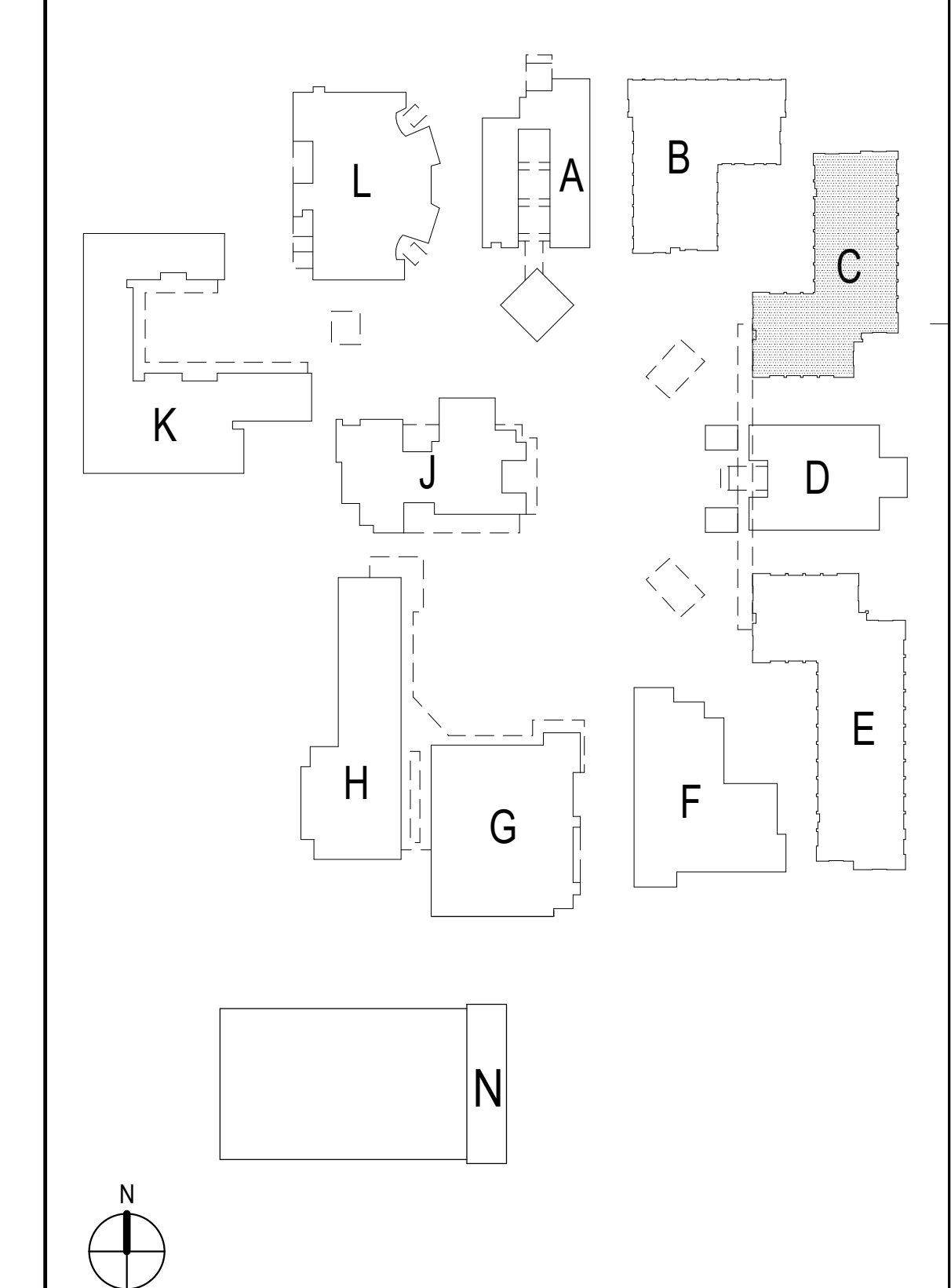
EXISTING EXHAUST FAN TO REMAIN AND PROTECT IN PLACE

DEMO TYPE 1: REMOVE ROOFING MATERIAL, SUBSTRATE, STRUCTURAL MEMBERS AS SHOWN ON STRUCTURAL DRAWINGS, ROOF CURBS, WALKING MATS, AND FLASHINGS AS NEEDED TO ALLOW ACCESS TO PERFORM ALL REQUIRED WORK ON THE NEW UNITS. DEMOLITION SIZES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR CAN DETERMINE IN FIELD WHAT IS REQUIRED TO COMPLETE EACH TASK. ANYTHING WITHIN THE HATCH IS TO BE DEMOLISHED WHETHER IDENTIFIED OR NOT, EXCEPT THE STRUCTURAL SYSTEM. CUT HOLES IN ROOF AS NEEDED FOR DUCT OR PIPE PENETRATION, NOT SHOWN HERE. SEE MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

DEMO EXISTING EQUIPMENT TYP. WHERE OCCURS ON ROOF PLAN

DEMO TYPE 2: REMOVE ROOFING MATERIAL, INSULATION AND SUBSTRATE, DOWN TO METAL DECK. PREP FOR INSTALLATION OF NEW UNITS. SEE 1MPL3

LEGEND



DEMO ROOF PLAN - BLDG C 1/8" = 1'-0" 1

SITE KEY PLAN

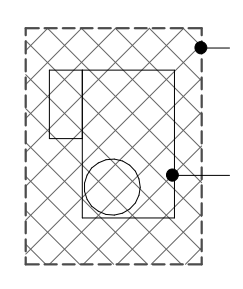
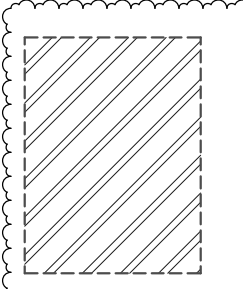
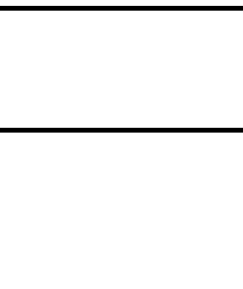
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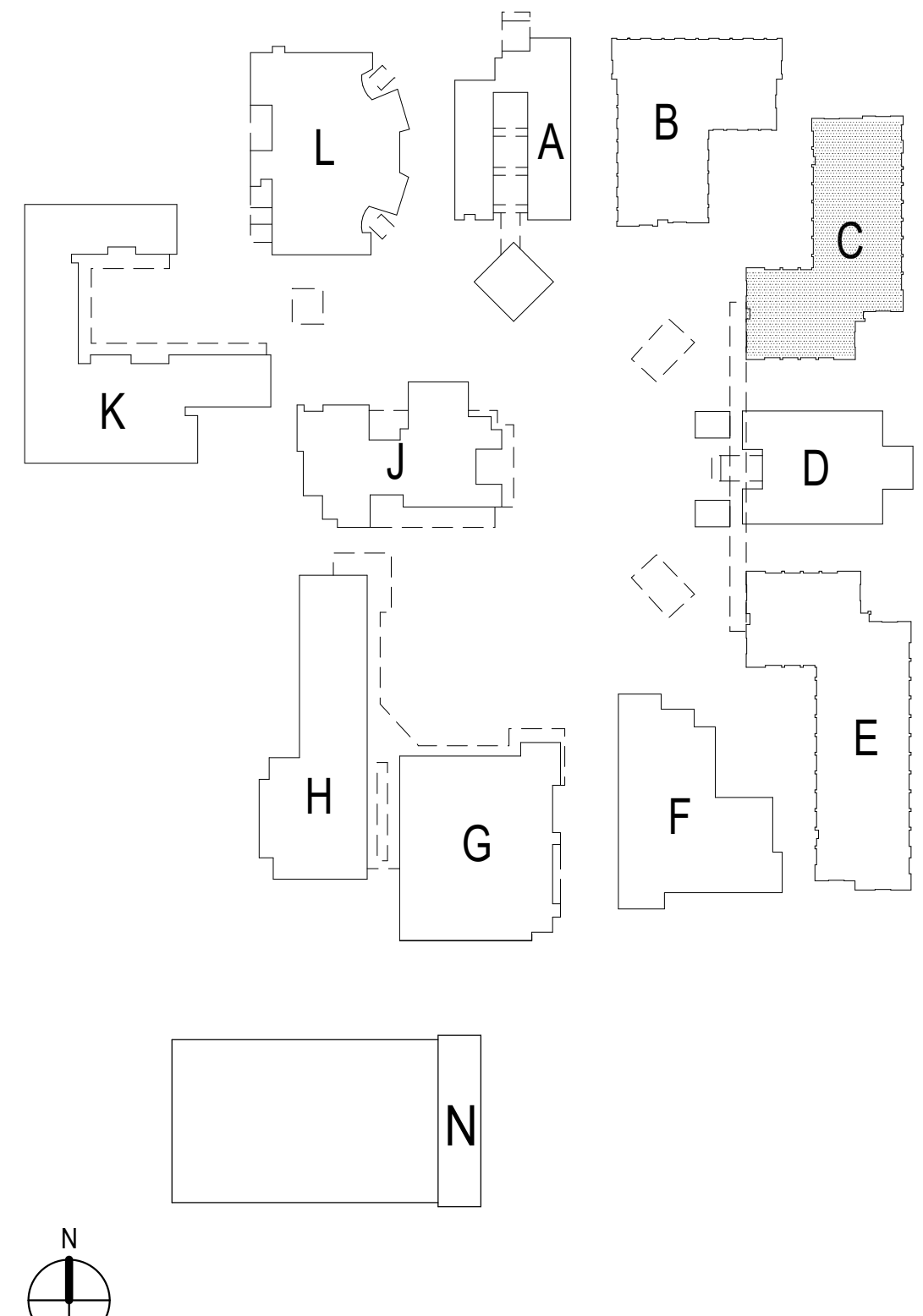
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REFERENCE NOTES	
KEYNOTE	DESCRIPTION
1510	(N) MECH UNIT. SEE MECH DWGS

 PATCH BACK ROOFING MATERIAL PER DETAIL 67.1 AND SPECIFICATION. INFILL DECK PER 13350.3. PROVIDE RIGID INSULATION TO MATCH EXISTING
 NEW AC UNIT. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION ON EACH UNIT TYPICAL
 PATCH BACK ROOFING MATERIAL PER 67.1. SEE 1MP4.3 FOR ADDITIONAL INFORMATION ON THE INSTALLATION OF THESE UNITS

LEGEND



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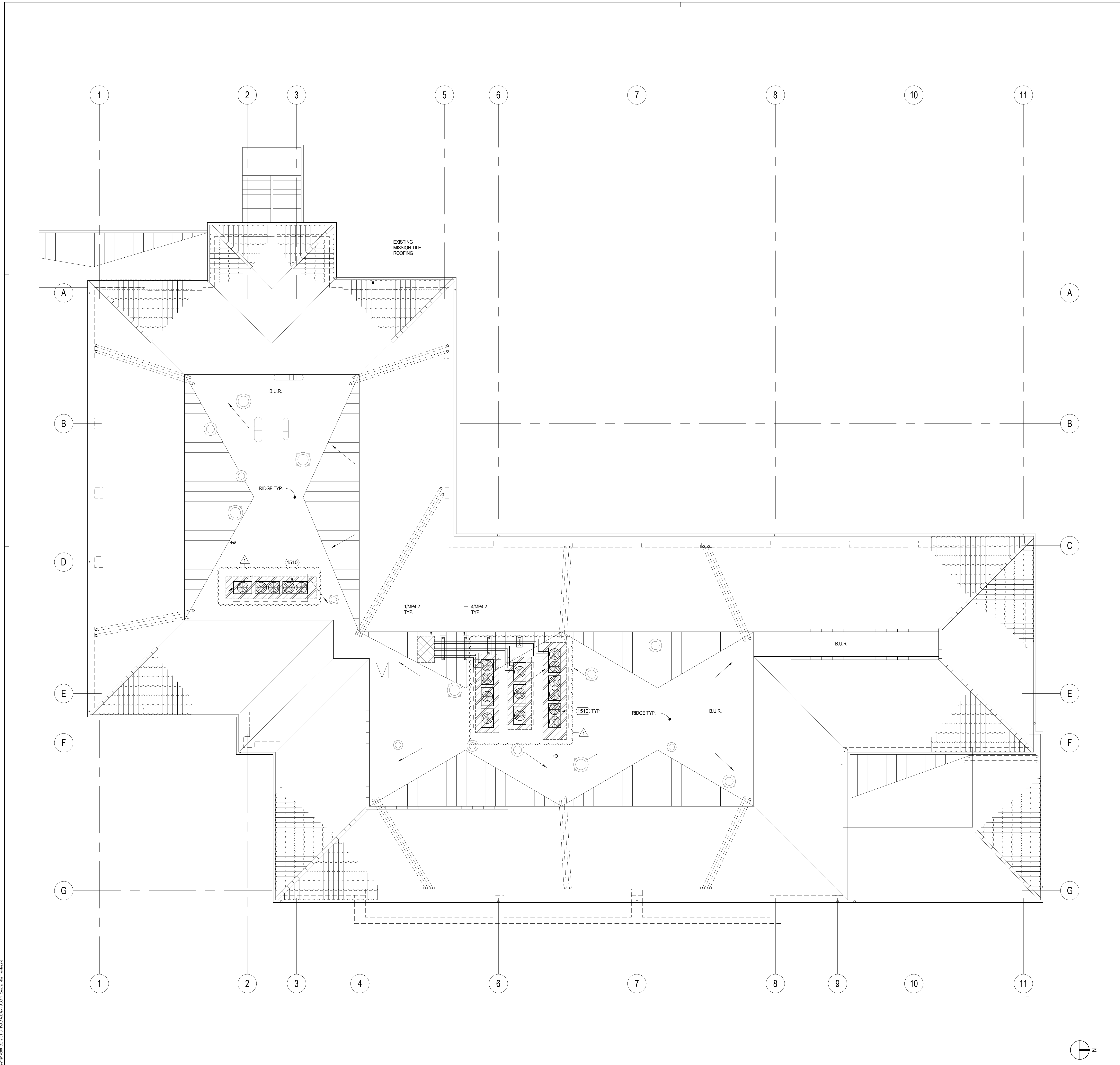
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NO	DATE	BY	DESCRIPTION
REVISIONS			

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**NEW ROOF PLAN
- BLDG C**

DRAWING NUMBER: **AC4.1**



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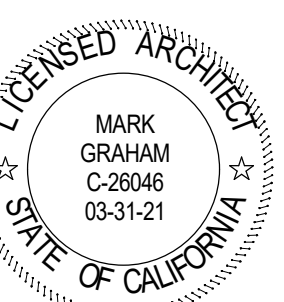
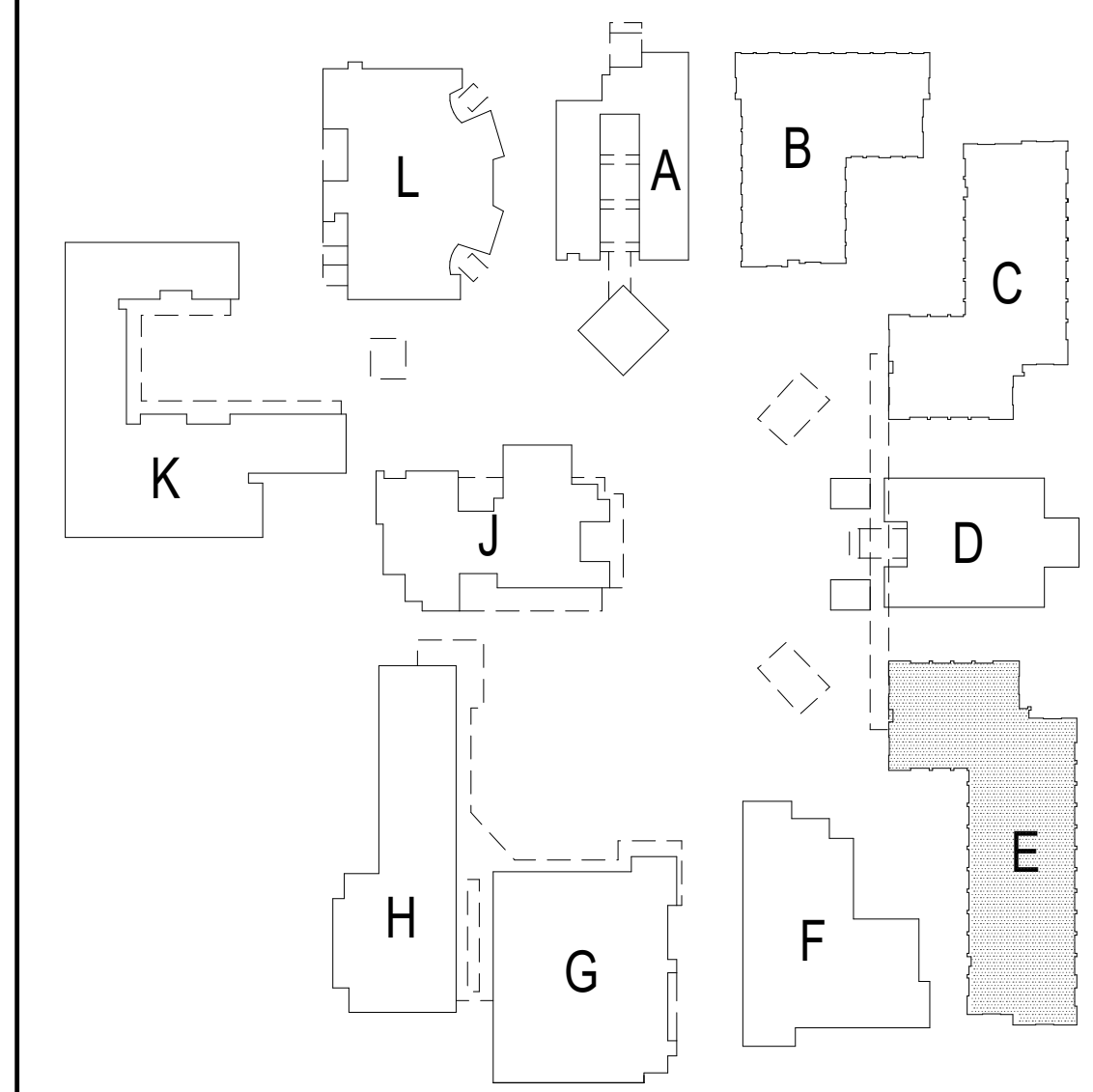
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REFERENCE NOTES

KEYNOTE	DESCRIPTION
	EXISTING WALKING MATS
	EXISTING EXHAUST FAN TO REMAIN AND PROTECT IN PLACE
	<p>DEMO TYPE 1: REMOVE ROOFING MATERIAL, SUBSTRATE, STRUCTURAL MEMBERS AS SHOWN ON STRUCTURAL DRAWINGS, ROOF CURBS, WALKING MATS, AND FLASHINGS AS NEEDED TO ALLOW ACCESS TO PERFORM ALL REQUIRED WORK ON THE NEW UNITS. DEMOLITION SIZES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR CAN DETERMINE IN FIELD WHAT IS REQUIRED TO COMPLETE EACH TASK. ANYTHING WITHIN THE HATCH IS TO BE DEMOLISHED WHETHER IDENTIFIED OR NOT, EXCEPT THE STRUCTURAL SYSTEM. CUT HOLES IN ROOF AS NEEDED FOR DUCT OR PIPE PENETRATION, NOT SHOWN HERE. SEE MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.</p>
	DEMO EXISTING EQUIPMENT TYP. WHERE OCCURS ON ROOF PLAN
	<p>DEMO TYPE 2: REMOVE ROOFING MATERIAL, INSULATION AND SUBSTRATE, DOWN TO METAL DECK. PREP FOR INSTALLATION OF NEW UNITS. SEE 1/MP4.3</p>

LEGEND



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1	08/25/20	ADDENDUM 1
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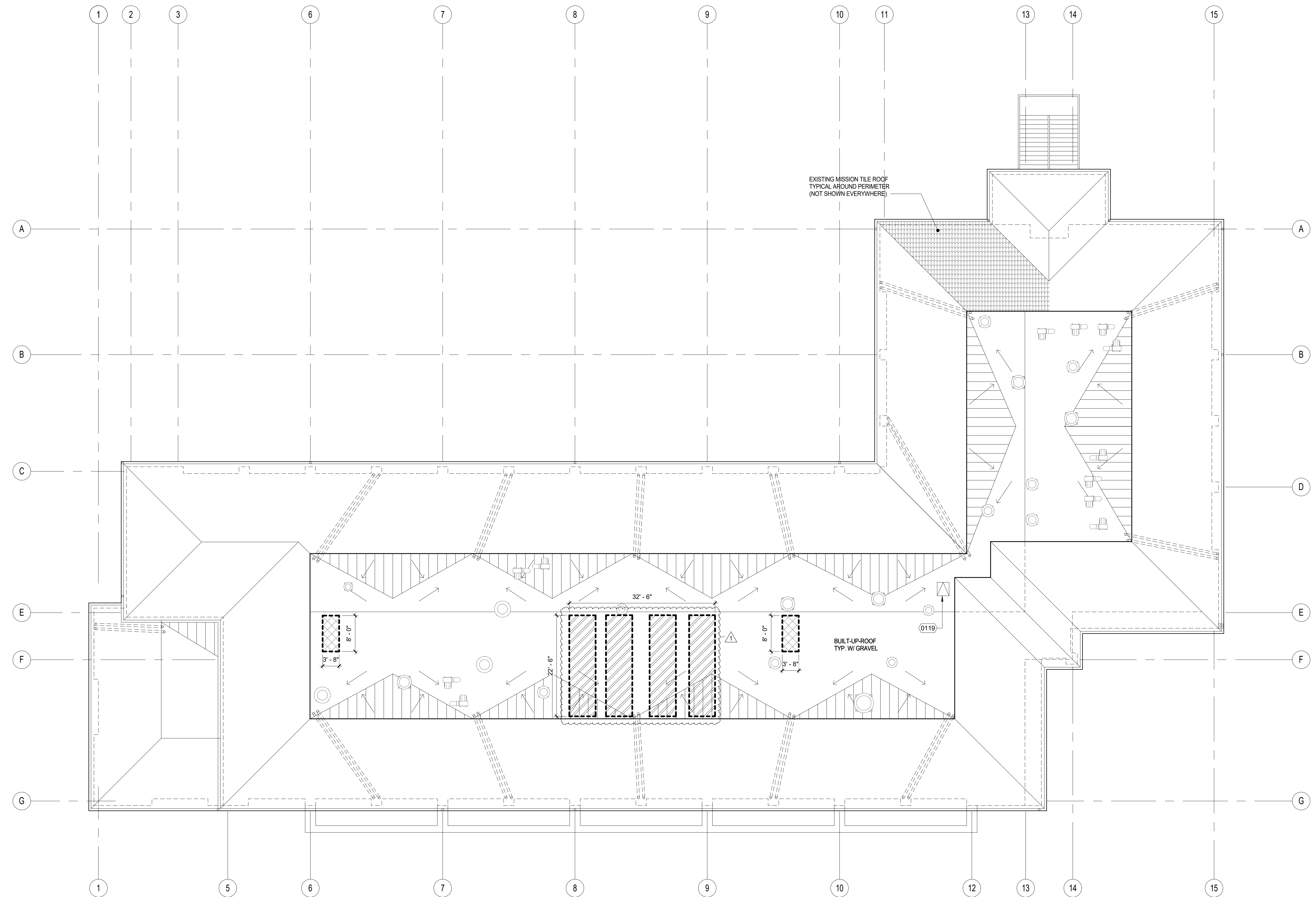
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DATE: 02/26/2020 SCALE: As indicated

PROJECT NUMBER: 1917000

**DEMO ROOF
PLAN - BLDG E**

DRAWING NUMBER: **AE4.0**



DEMO ROOF PLAN - BLDG E

3/32" = 1'-0" 1

SITE KEY PLAN



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REFERENCE NOTES

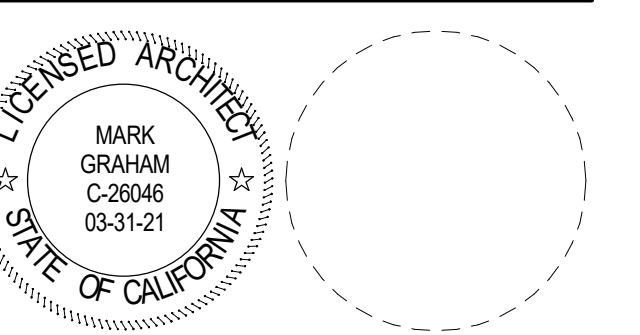
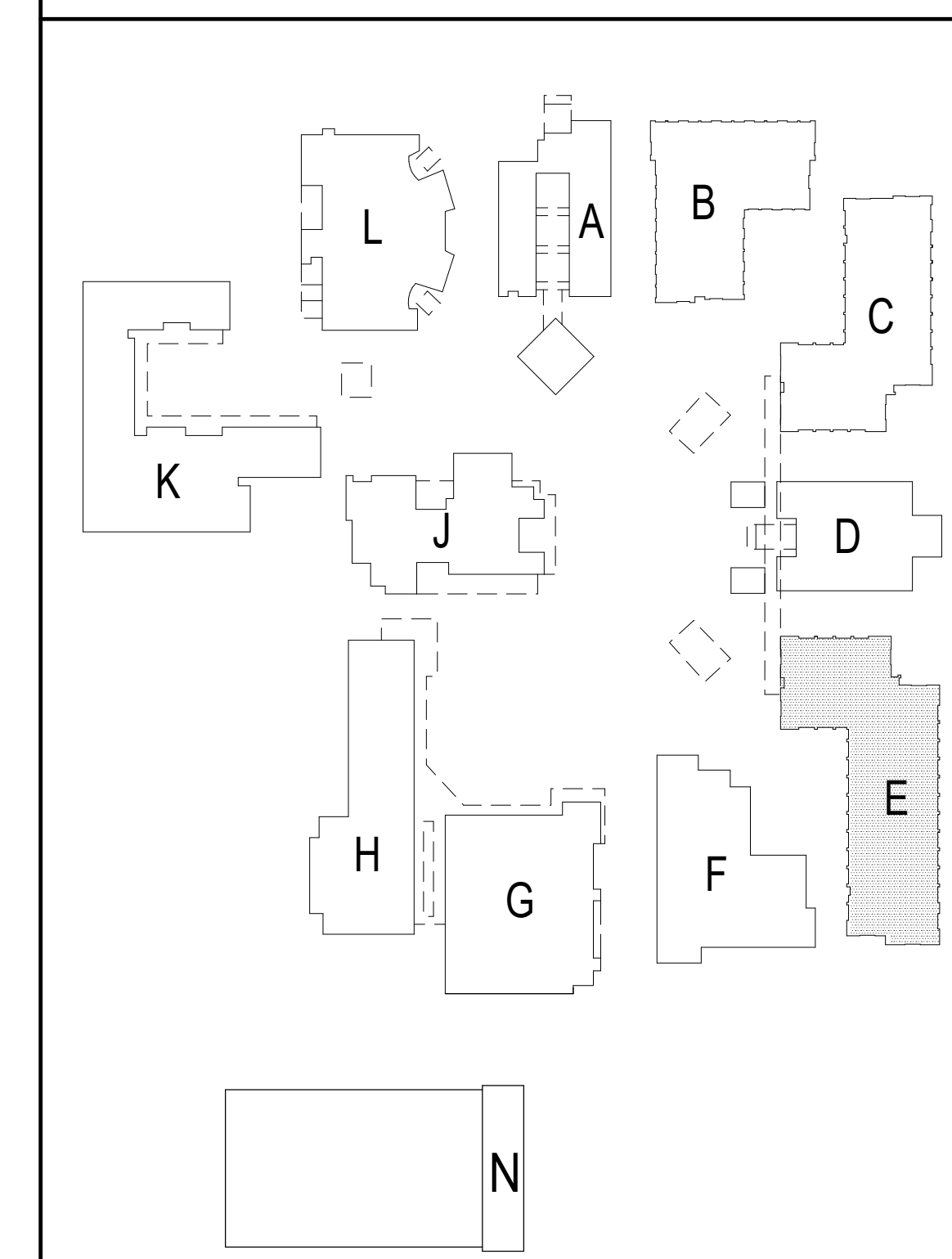
KEYNOTE	DESCRIPTION
1510	(N) MECH UNIT. SEE MECH DWGS

PATCH BACK ROOFING MATERIAL PER DETAIL 07.1 AND SPECIFICATION. INFILL DECK PER 13/50.3. PROVIDE RIGID INSULATION TO MATCH EXISTING

NEW AC UNIT. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION ON EACH UNIT TYPICAL

PATCH BACK ROOFING MATERIAL PER 6/7.1. SEE 1/MP4.3 FOR ADDITIONAL INFORMATION ON THE INSTALLATION OF THESE UNITS

LEGEND



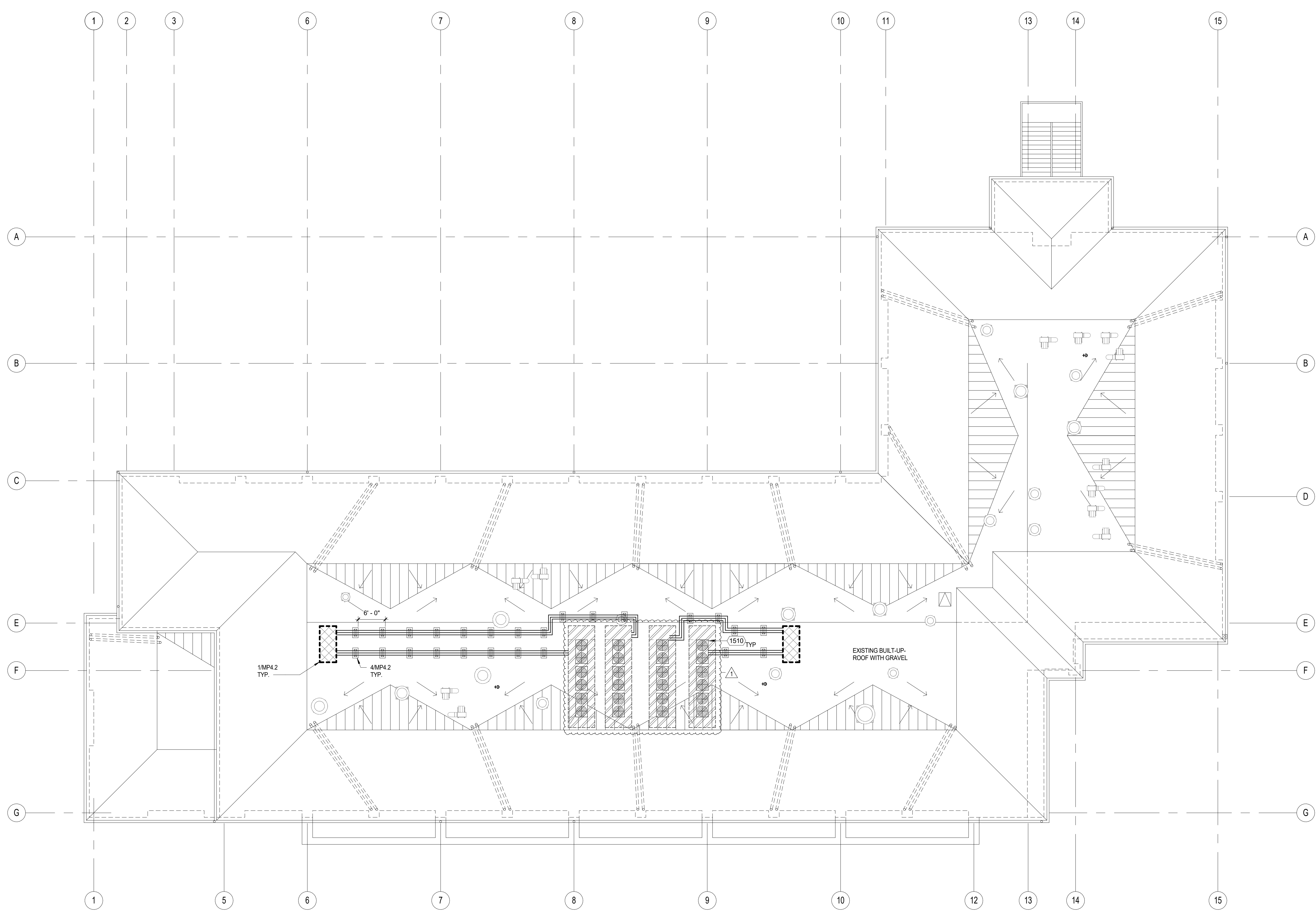
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 PROJECT NUMBER: 1917000

**NEW ROOF PLAN
 - BLDG E**

DRAWING NUMBER: **AE4.1**



NEW ROOF PLAN - BLDG E

3/32" = 1'-0" 1

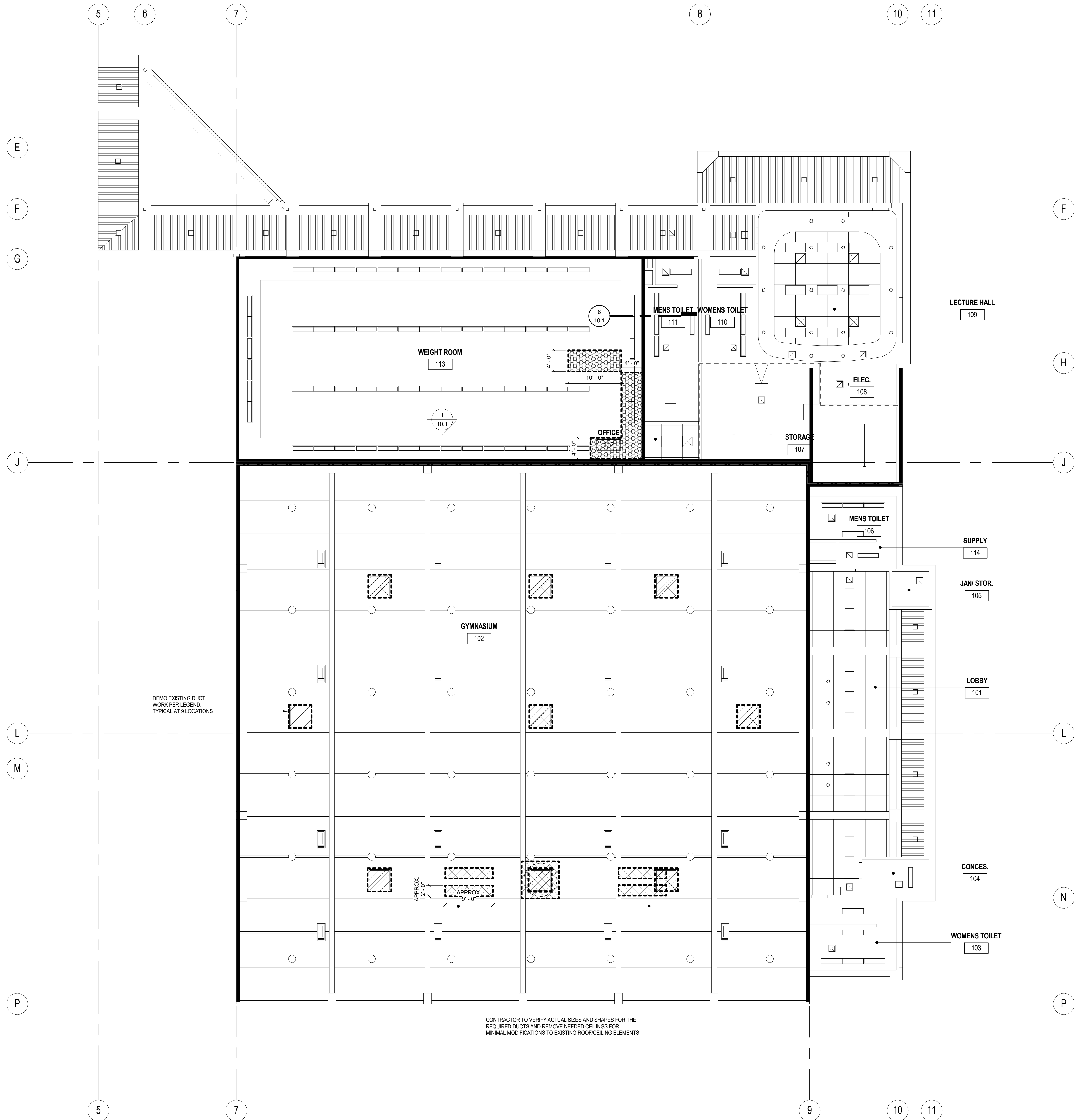
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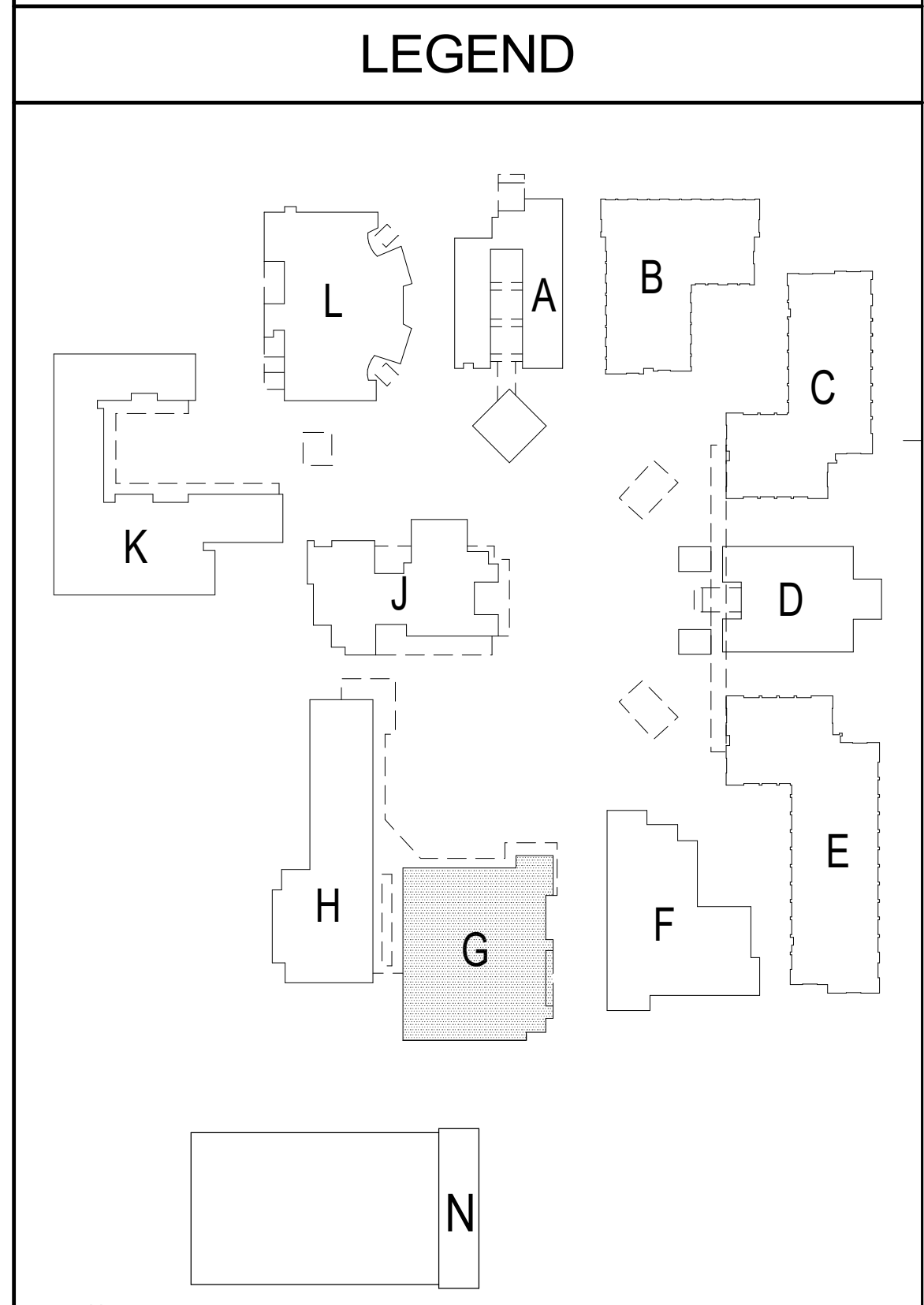
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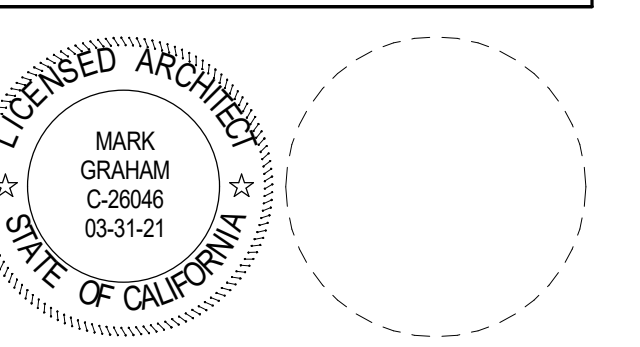
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REFERENCE NOTES	
KEYNOTE	DESCRIPTION
---	1-HR RATED WALL
---	2-HR RATED WALL (WHERE APPLICABLE)
[Hatched Box]	DEMO TYPE 1: REMOVE ACOUSTICAL METAL DECK AND ACOUSTICAL INFILL MATERIAL
[Diagonal Lines Box]	DEMO TYPE 2: REMOVE EXISTING HEATER UNITS AND PREP OPENING FOR NEW ACOUSTICAL DECK INFILL
[Grid Pattern Box]	DEMO TYPE 4: REMOVE EXISTING GYPSUM BOARD FROM SUSPENDED METAL CEILING OR FROM METAL STUD FRAMING. SEE DETAIL 109.2 FOR EXISTING FRAMING CONDITION. NEATLY CUT GYPSUM ON HAT CHANNEL TYPICAL. IF CUT LINE OCCURS WITHIN 8" OF GYP. BRD. SEAM, REMOVE GYP. BOARD TO SEAM TYPICAL. SIZE SHOWN ON PLAN IS APPROXIMATE ONLY. REMOVE WHAT IS NEEDED TO COMPLETE THE WORK. LEAVE FRAMING IN PLACE.



SITE KEY PLAN



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1	08/25/20	ADDENDUM 1	
NO	DATE	BY	DESCRIPTION
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**DEMO CEILING
PLAN - BLDG G**

DRAWING NUMBER: **AG3.0**

DEMO CEILING PLAN - BLDG G 1/8" = 1'-0" 1

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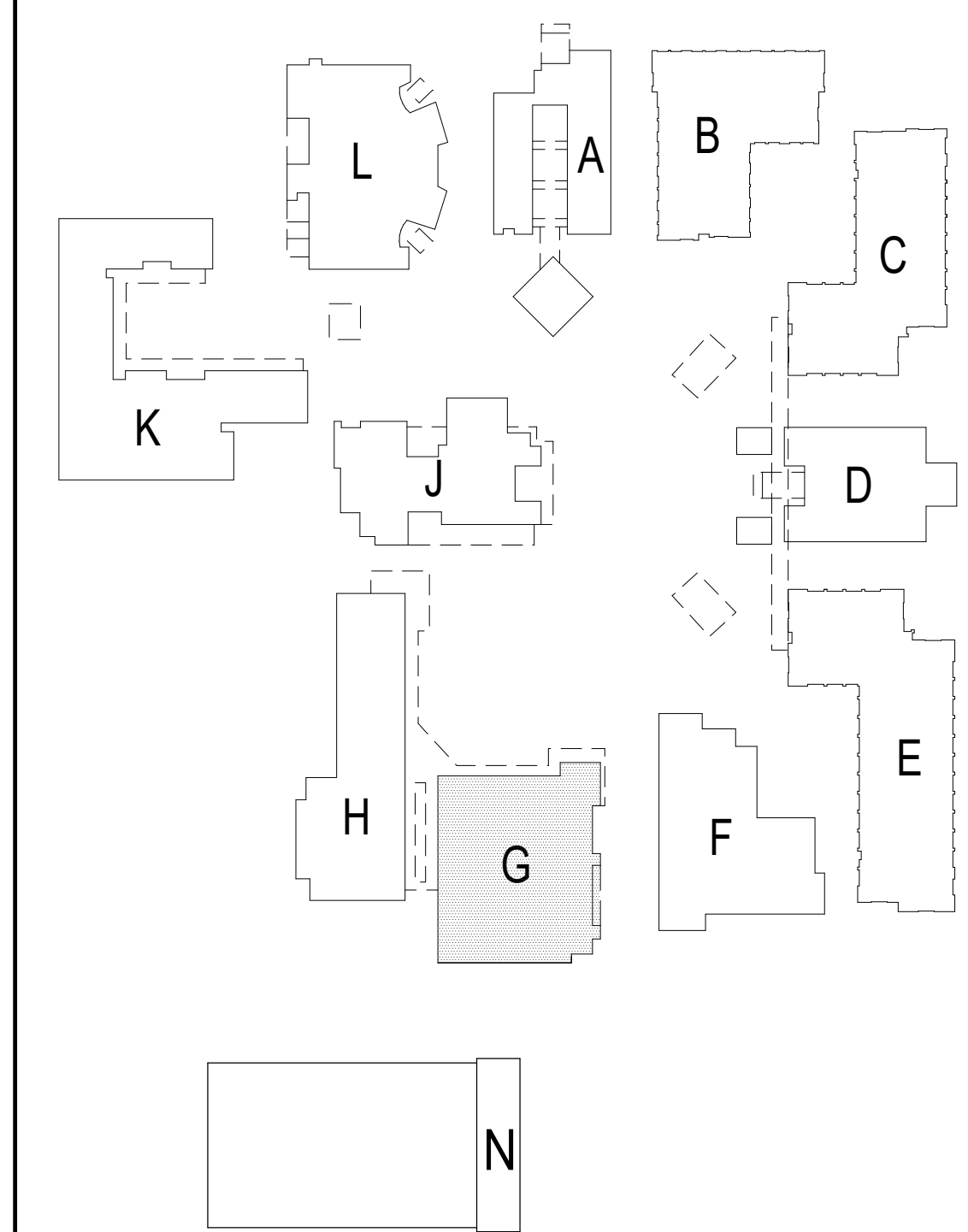
REFERENCE NOTES

KEYNOTE	DESCRIPTION
1504	(N) DUCT SYSTEM, REF TO MECH DWGS, COLOR TO BE SELECTED BY ARCHITECT

- 1-HR RATED WALL
- PATCH BACK WITH ACOUSTICAL METAL DECK TO MATCH EXISTING SIZE AND SHAPE. INSTALL ACOUSTICAL BACKER MATERIAL IN DECK. PRIME AND PAINT TO MATCH EXISTING. SEE 1350.3 FOR STRUCTURAL INFILL DETAIL TYPICAL.
- CEILING TYPE 4: REINSTALL NEW GYPSUM BOARD ON EXISTING SUSPENDED GRID. TAPE, MUD, TEXTURE, PRIME, AND PAINT TO MATCH EXISTING.
- GYPSUM BOARD TYP.

NOTES:
1. ALL (N) STEEL, MECHANICAL EQUIPMENT PIPES AND CONDUITS SHALL BE PRIMED AND PAINTED TO MATCH EXISTING COLOR.

LEGEND



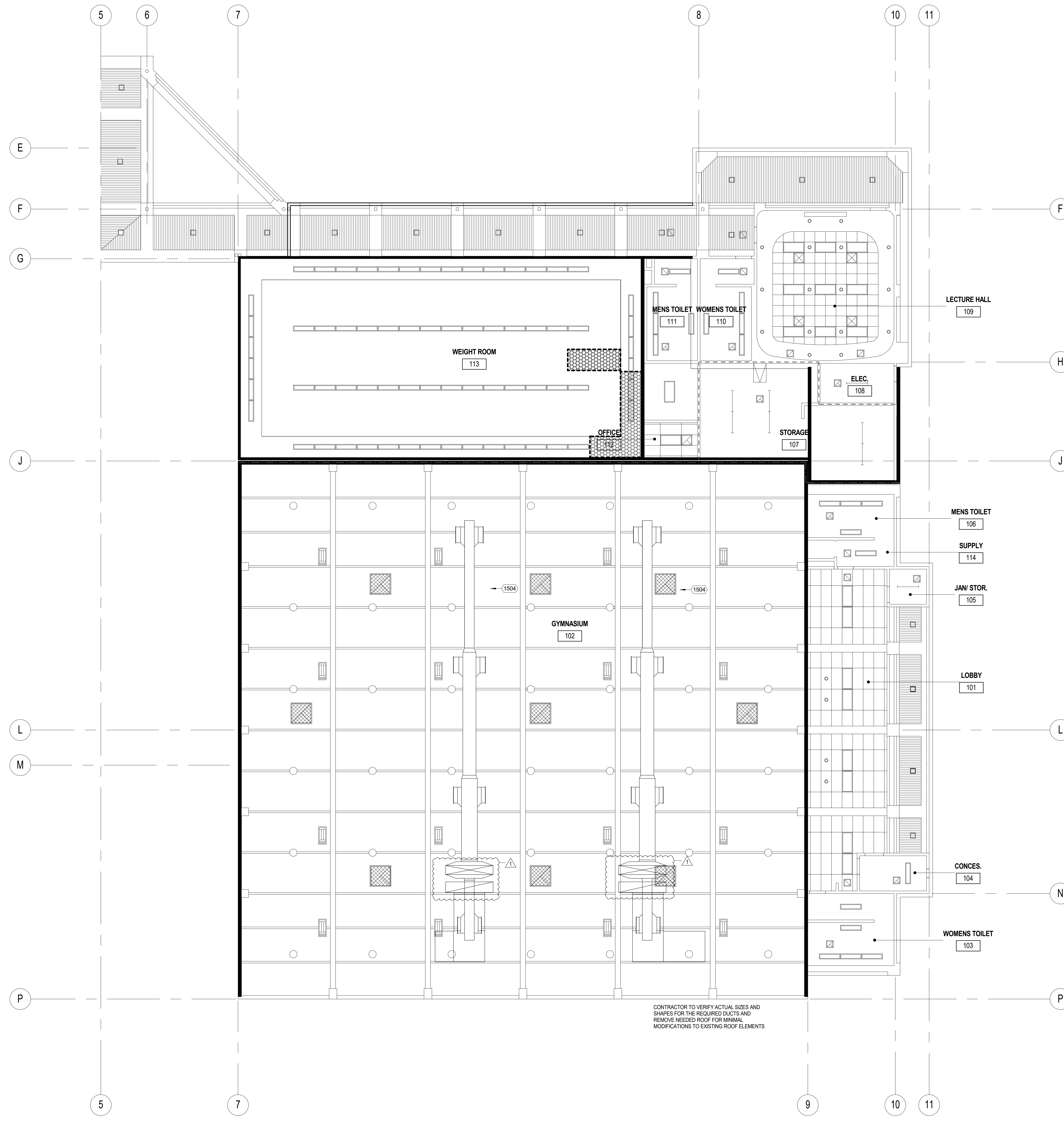
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1	08/25/20		ADDENDUM 1
REVISIONS			

DRAWN: JY CHECKED: SJ
DATE: 08/25/20 SCALE: As indicated
PROJECT NUMBER: 1917000

**NEW CEILING
PLAN - BLDG G**

DRAWING NUMBER: **AG3.1**



CONTRACTOR TO VERIFY ACTUAL SIZES AND SHAPES FOR THE REQUIRED DUCTS AND REMOVE NEEDED ROOF FOR MINIMAL MODIFICATIONS TO EXISTING ROOF ELEMENTS

NEW CEILING PLAN - BLDG G 1/8" = 1'-0" 1

SITE KEY PLAN

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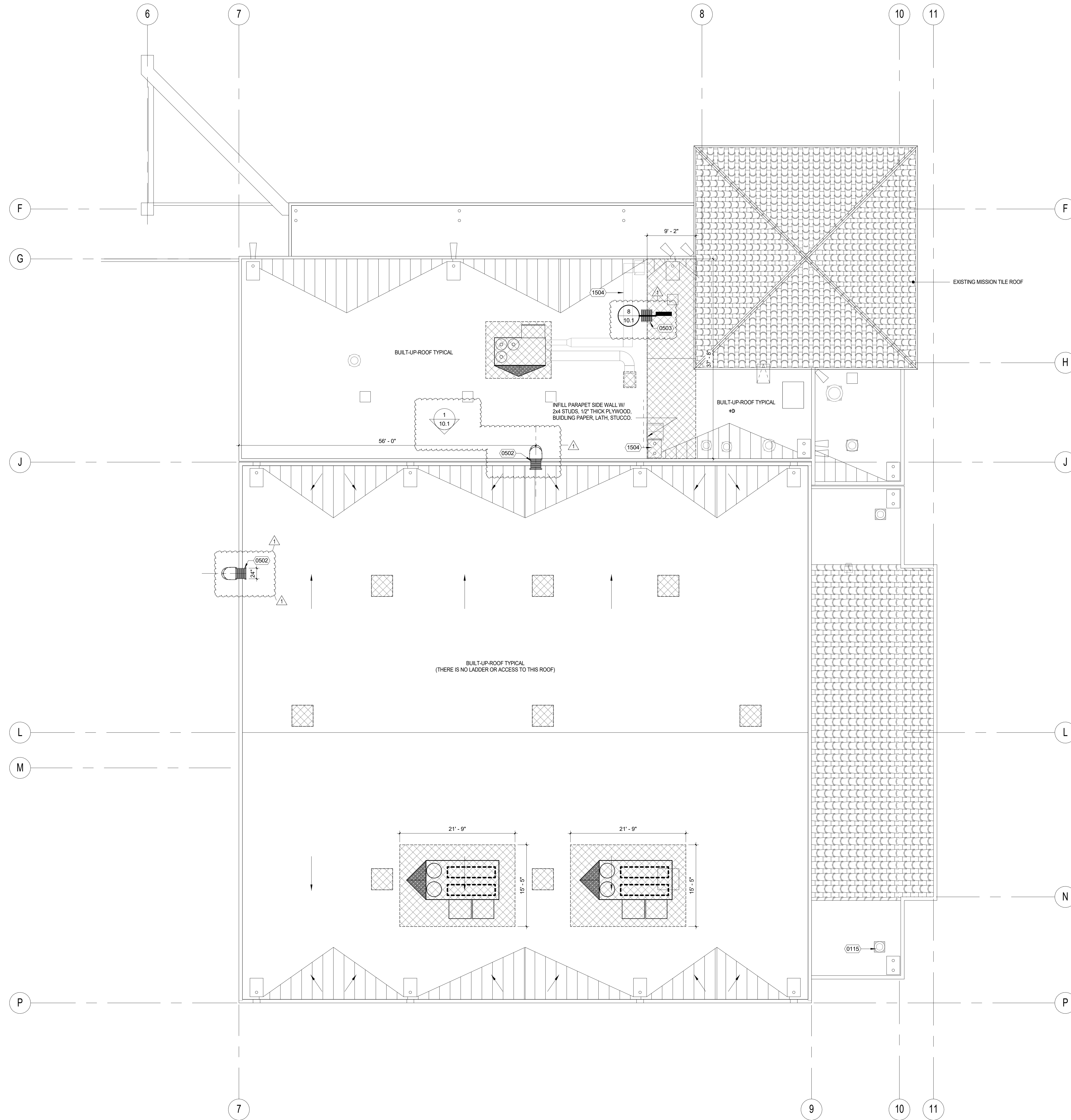


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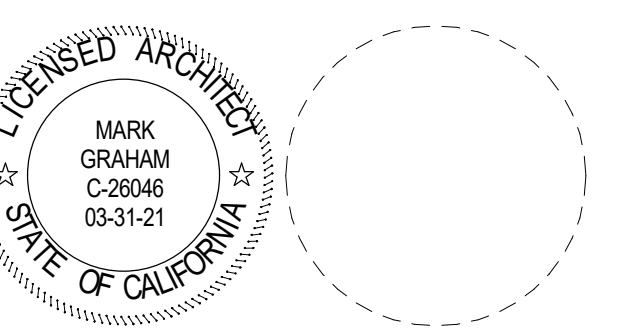
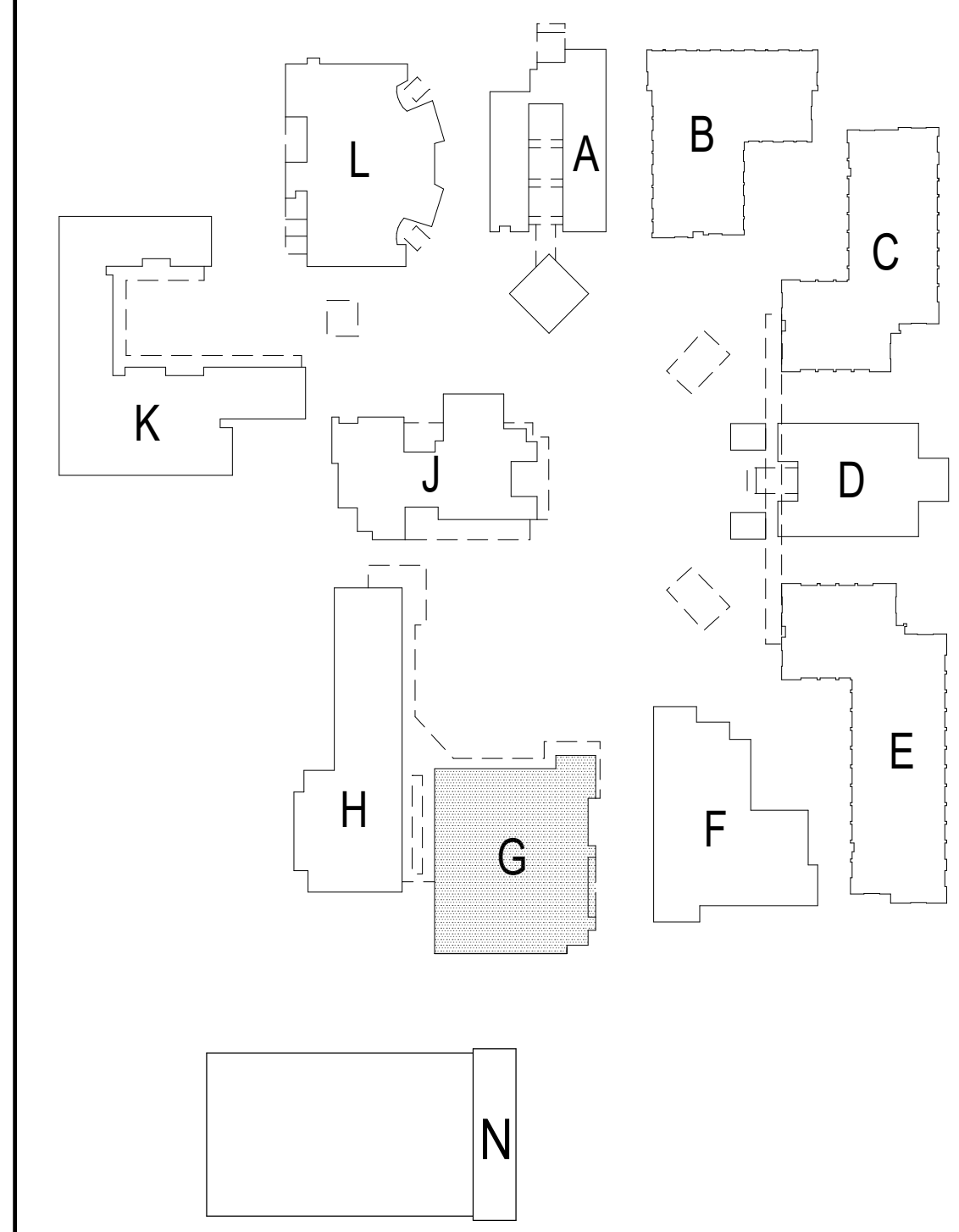
REFERENCE NOTES

KEYNOTE	DESCRIPTION
0502	(N) PRE-MANUFACTURED ACCESS LADDER W/ CAGE REF TO 3/ADD 1 AND SPECIFICATIONS
0503	(N) PRE-MANUFACTURED SHIP LADDER, REF TO 8/ADD 1
1504	(N) DUCT SYSTEM, REF TO MECH DWGS, COLOR TO BE SELECTED BY ARCHITECT



PATCH BACK ROOFING MATERIAL PER DETAIL 67.1 AND SPECIFICATION.
 INFILL DECK PER 14/50.3. PROVIDE RIGID INSULATION TO MATCH EXISTING.
 NEW AC UNIT, SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION ON EACH UNIT TYPICAL.

LEGEND



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REVISIONS			

DRAWN: JY CHECKED: SJ
 DATE: 08/25/20 SCALE: As indicated
 PROJECT NUMBER: 1917000

**NEW ROOF PLAN
 - BLDG G**

DRAWING NUMBER: **AG4.1**

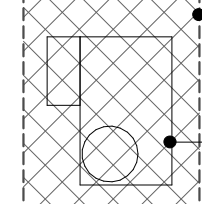
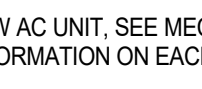


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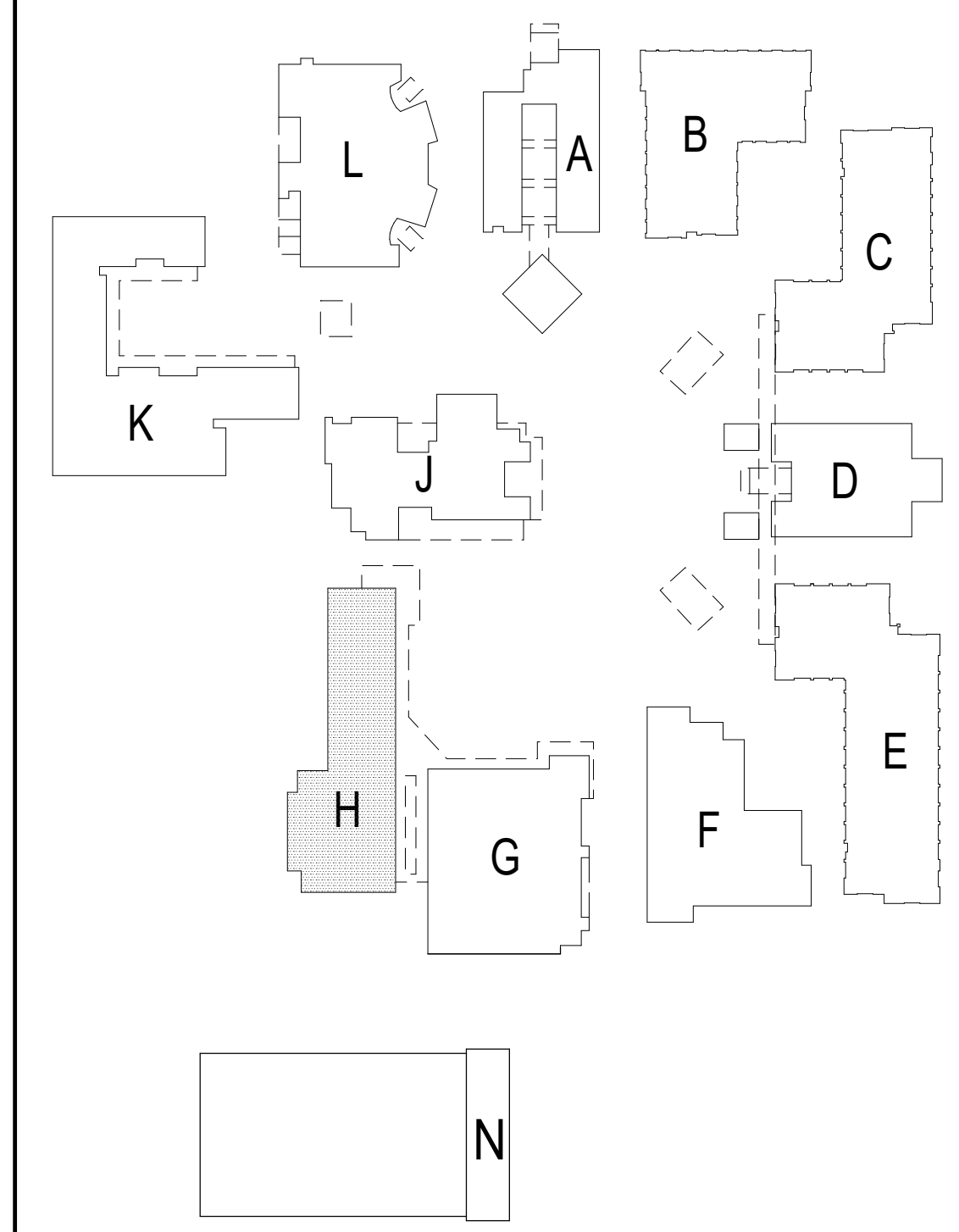
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 3400 W GONZALES RD.
 OXNARD, CA 93036

REFERENCE NOTES

KEYNOTE	DESCRIPTION
0502	(N) PRE-MANUFACTURED ACCESS LADDER W/ CAGE REF TO 3/ADD 1 AND SPECIFICATIONS

 PATCH BACK ROOFING MATERIAL PER DETAIL 67.1 AND SPECIFICATION. INFILL DECK PER 14/50.3. PROVIDE RIGID INSULATION TO MATCH EXISTING.
 NEW AC UNIT. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION ON EACH UNIT TYPICAL.

LEGEND



CONSULTANT

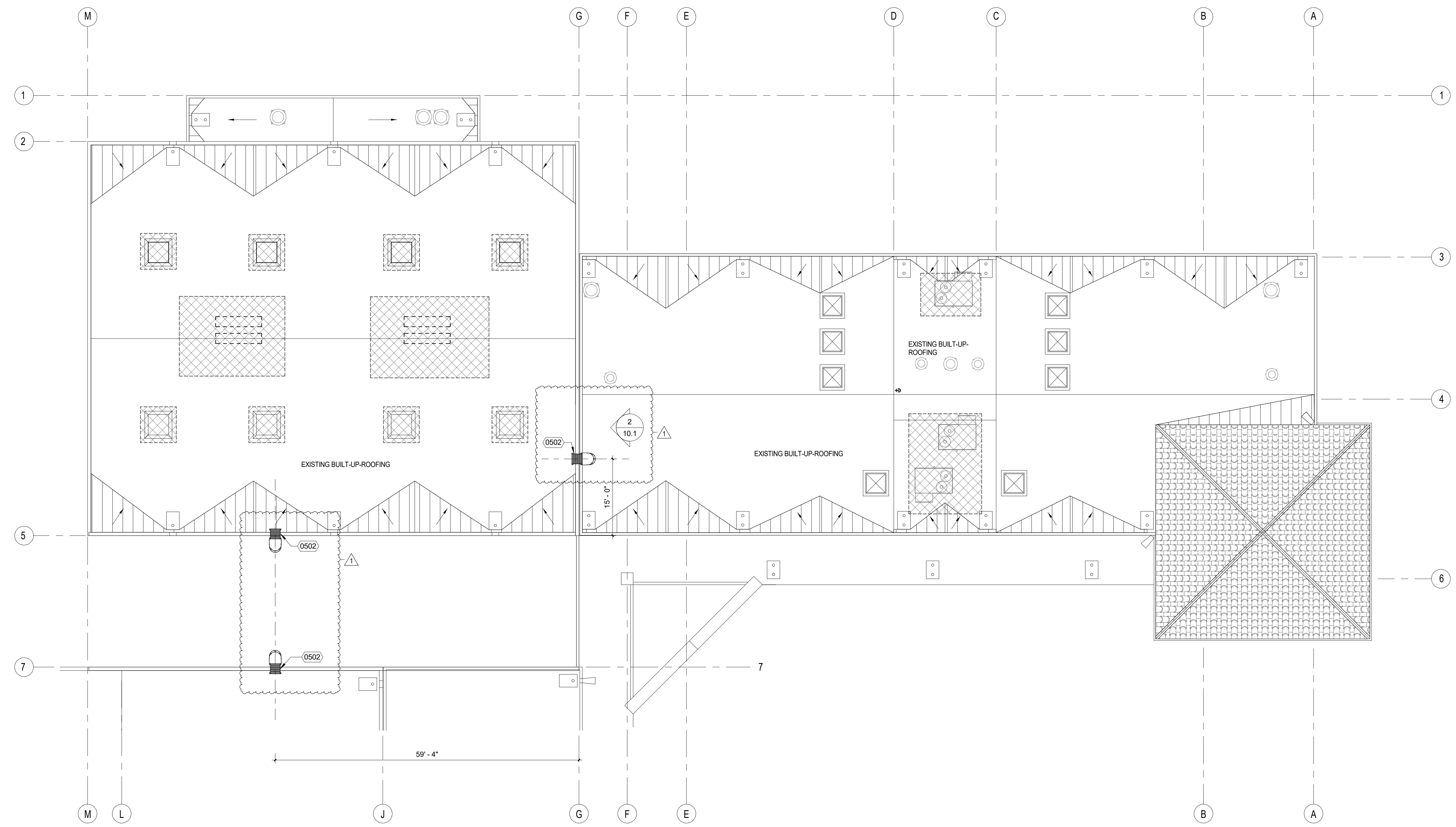
1	08/25/20	ADDENDUM 1
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: JY CHECKED: SJ
 DATE: 08/25/20 SCALE: As indicated
 PROJECT NUMBER: 1917000

**NEW ROOF PLAN
 - BLDG H**

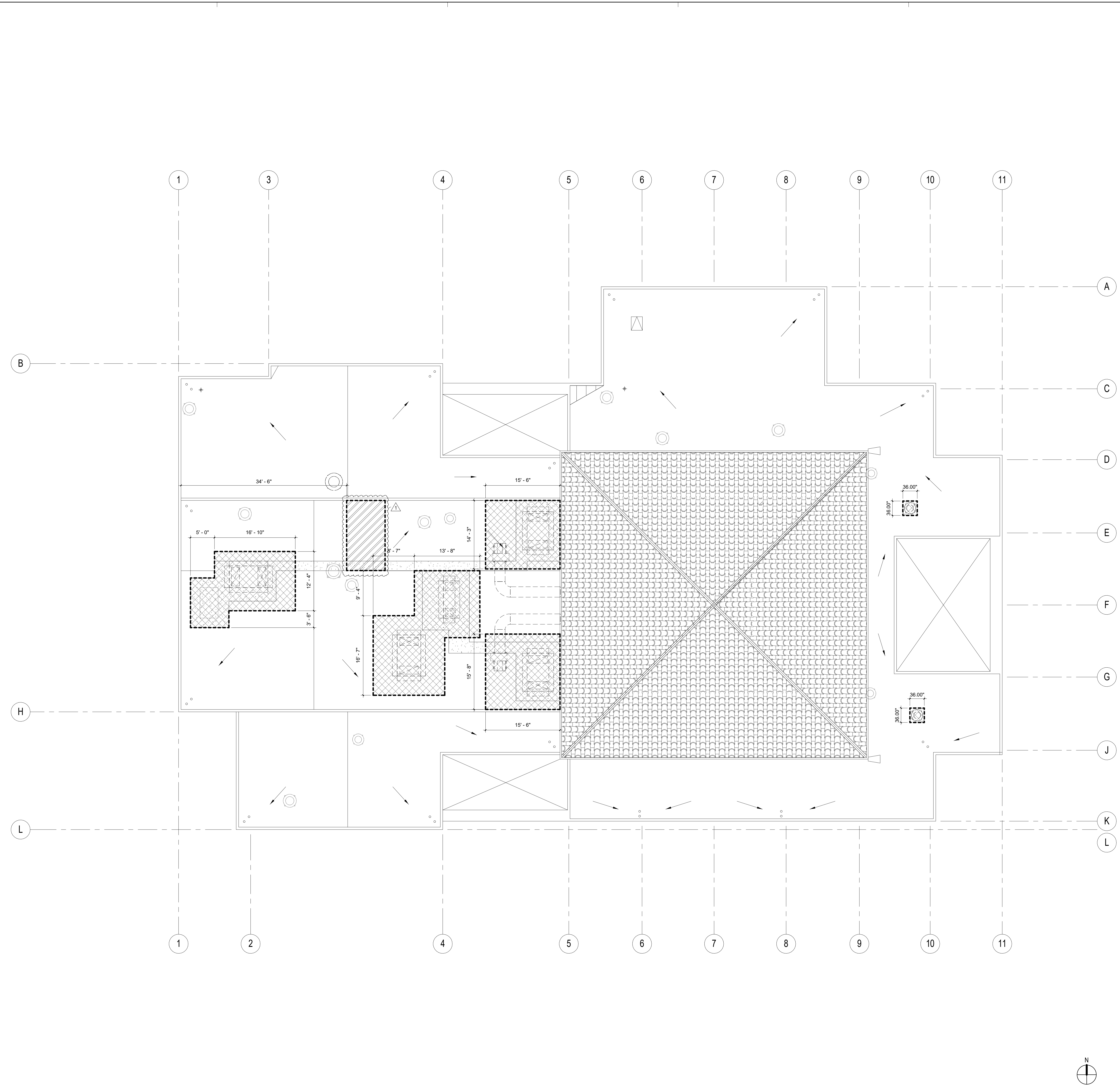
DRAWING NUMBER: **AH4.1**



NEW ROOF PLAN - BLDG H 3/32" = 1'-0" 1

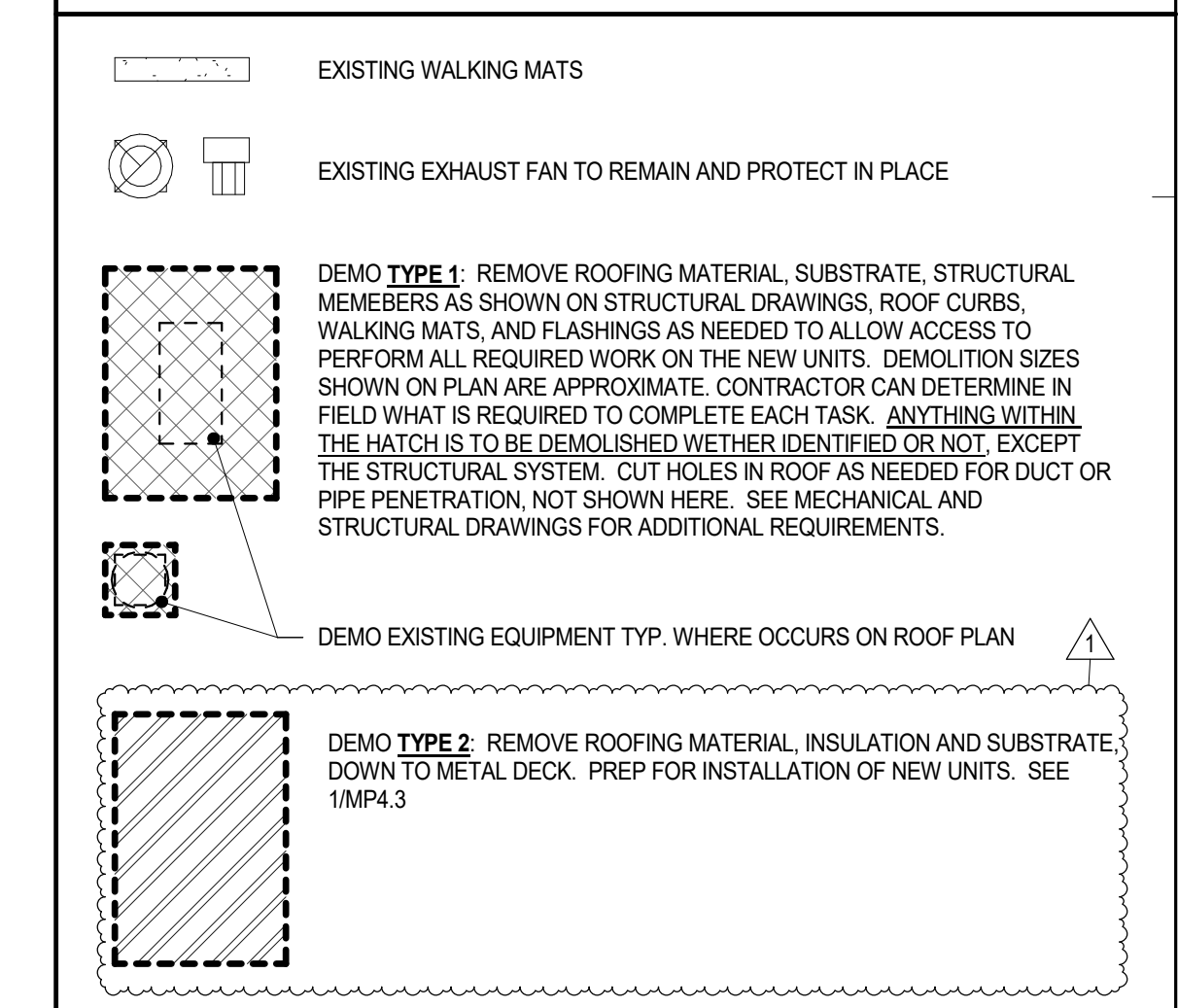
SITE KEY PLAN

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REFERENCE NOTES

KEYNOTE	DESCRIPTION
[Symbol]	EXISTING WALKING MATS
[Symbol]	EXISTING EXHAUST FAN TO REMAIN AND PROTECT IN PLACE
[Symbol]	DEMO TYPE 1: REMOVE ROOFING MATERIAL, SUBSTRATE, STRUCTURAL MEMBERS AS SHOWN ON STRUCTURAL DRAWINGS, ROOF CURBS, WALKING MATS, AND FLASHINGS AS NEEDED TO ALLOW ACCESS TO PERFORM ALL REQUIRED WORK ON THE NEW UNITS. DEMOLITION SIZES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR CAN DETERMINE IN FIELD WHAT IS REQUIRED TO COMPLETE EACH TASK. ANYTHING WITHIN THE HATCH IS TO BE DEMOLISHED WHETHER IDENTIFIED OR NOT, EXCEPT THE STRUCTURAL SYSTEM. CUT HOLES IN ROOF AS NEEDED FOR DUCT OR PIPE PENETRATION, NOT SHOWN HERE. SEE MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
[Symbol]	DEMO EXISTING EQUIPMENT TYP. WHERE OCCURS ON ROOF PLAN
[Symbol]	DEMO TYPE 2: REMOVE ROOFING MATERIAL, INSULATION AND SUBSTRATE, DOWN TO METAL DECK. PREP FOR INSTALLATION OF NEW UNITS. SEE 1MP4.3



LEGEND

L A B C D E F G H J K

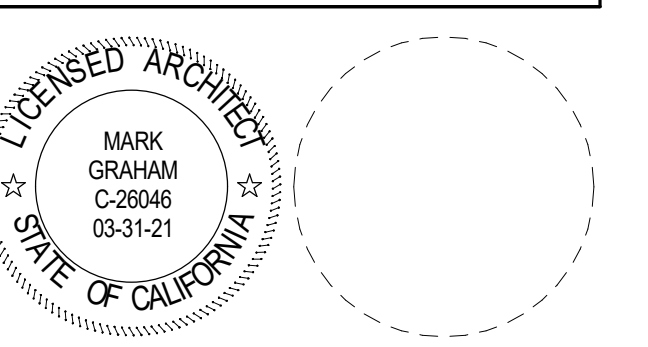
REVISIONS

NO	DATE	BY	DESCRIPTION
1	08/25/20		ADDENDUM 1

DRAWN: JY CHECKED: SJ
DATE: 02/26/2020 SCALE: As indicated
PROJECT NUMBER: 1917000

**DEMO ROOF
PLAN - BLDG J**

DRAWING NUMBER: **AJ4.0**



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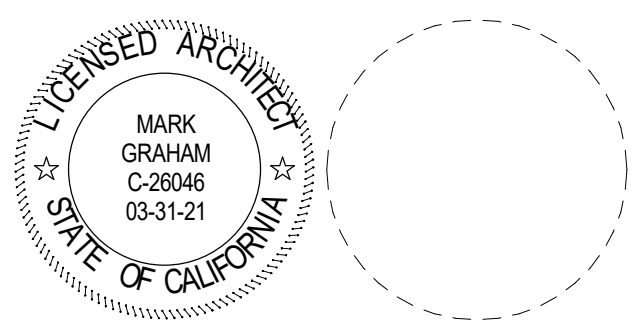
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1	08/25/20	ADDENDUM 1

NO	DATE	BY	DESCRIPTION
REVISIONS			

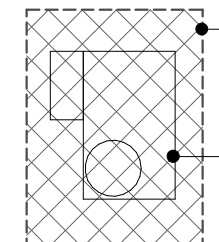
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DATE: 02/26/2020 SCALE: As indicated
PROJECT NUMBER: 1917000

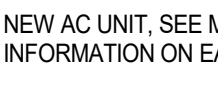
**NEW ROOF PLAN
- BLDG J**

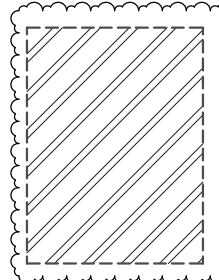
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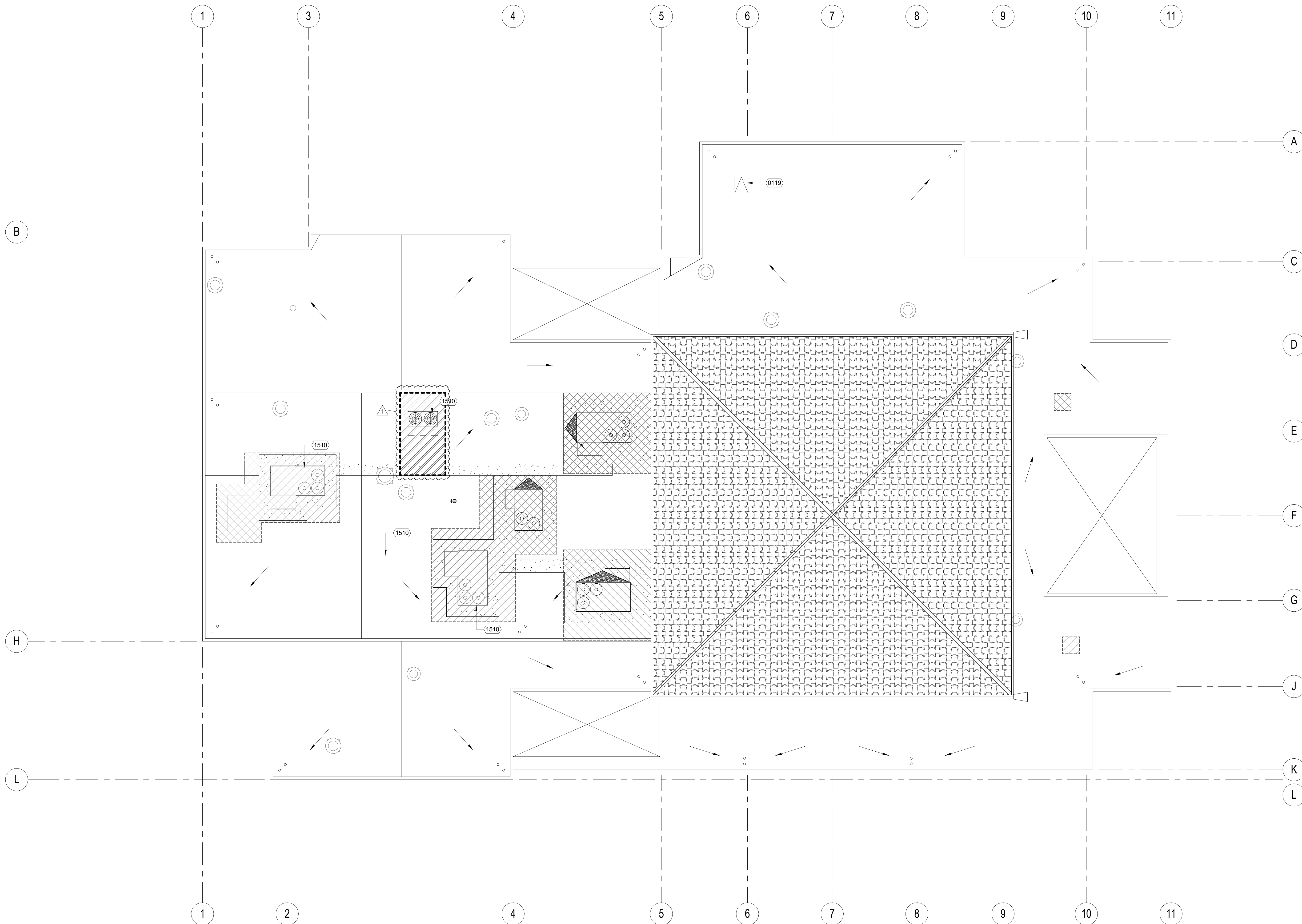
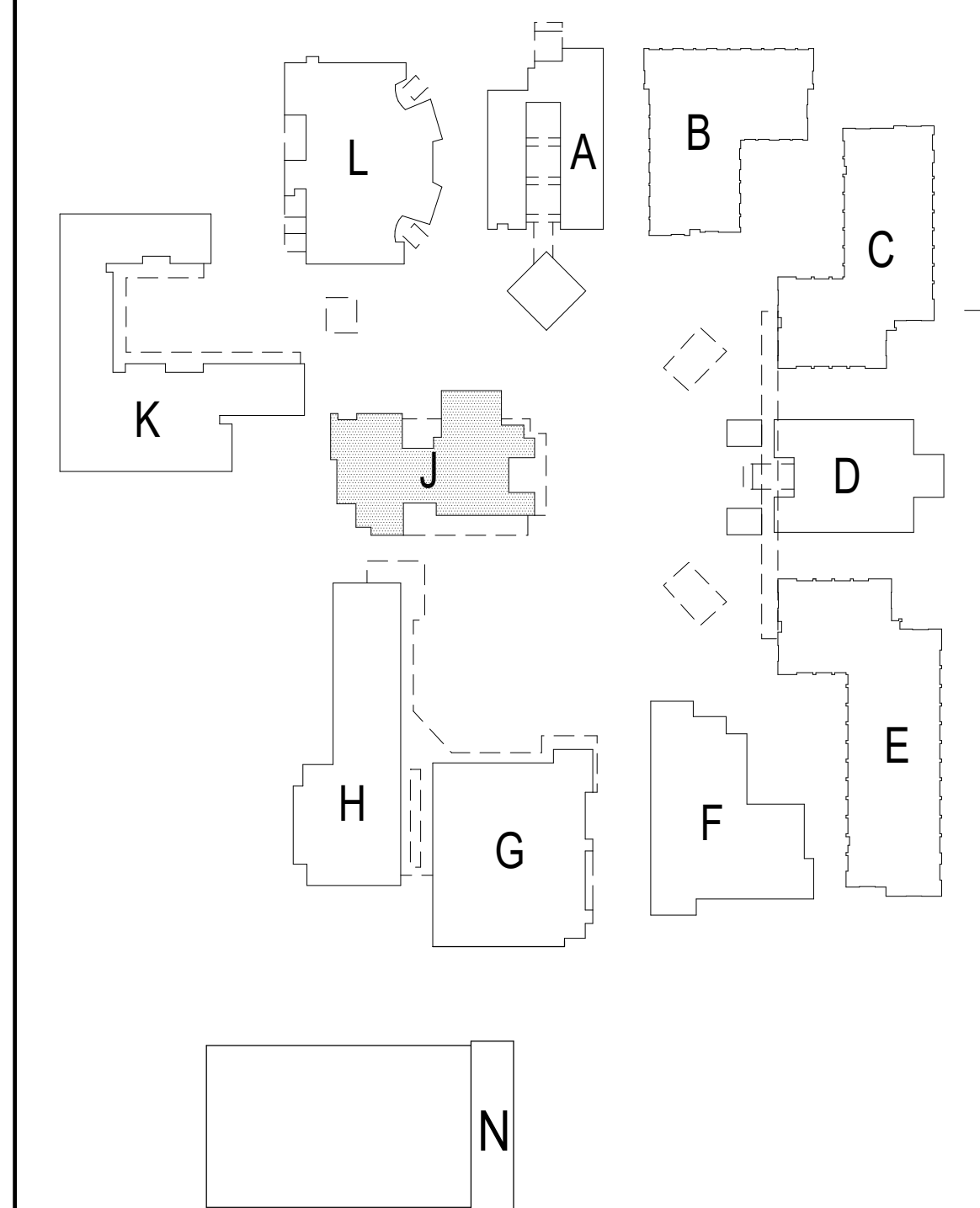
KEYNOTE	DESCRIPTION
0119	(E) ROOF HATCH
1510	(N) MECH UNIT, SEE MECH DWGS

 PATCH BACK ROOFING MATERIAL PER DETAIL 67.1 AND SPECIFICATION. INFILL DECK PER 1450.3. PROVIDE RIGID INSULATION TO MATCH EXISTING.

 NEW AC UNIT. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION ON EACH UNIT TYPICAL.

 PATCH BACK ROOFING MATERIAL PER 67.1. SEE 1M/P4.3 FOR ADDITIONAL INFORMATION ON THE INSTALLATION OF THESE UNITS.

LEGEND



NEW ROOF PLAN - BLDG J 1/8" = 1'-0" 1

SITE KEY PLAN



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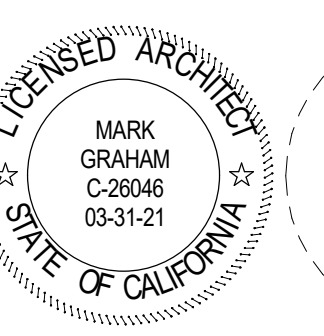
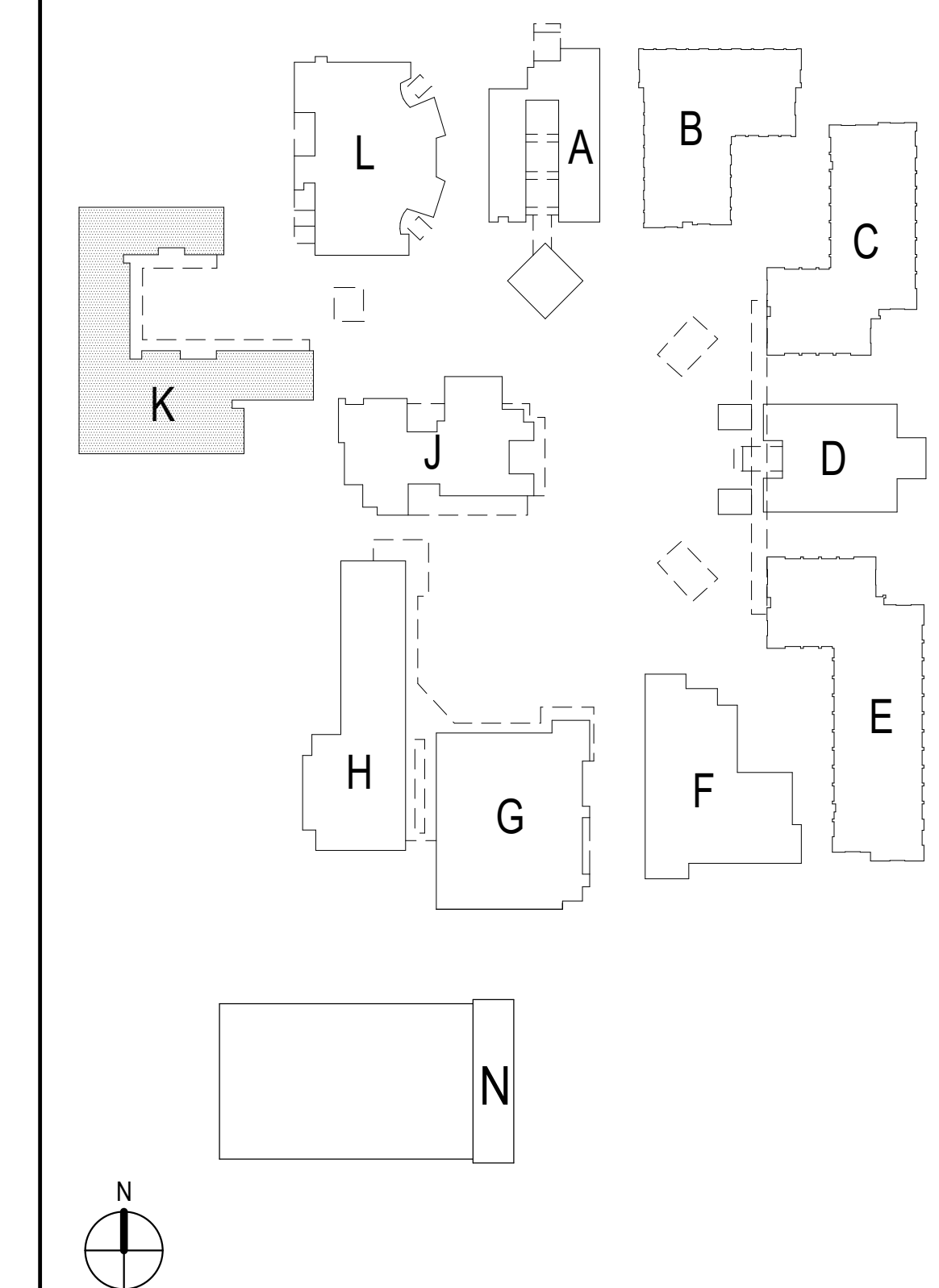
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SCHOOL SITE (805) 278-2907
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OXNARD, CA 93036

REFERENCE NOTES

KEYNOTE	DESCRIPTION
0116	(E) AIR HANDLING UNIT TO REMAIN AND PROTECT IN PLACE
0119	(E) ROOF HATCH

- EXISTING WALKING MATS
- EXISTING EXHAUST FAN TO REMAIN AND PROTECT IN PLACE
- DEMO TYPE 1: REMOVE ROOFING MATERIAL, SUBSTRATE, STRUCTURAL MEMBERS AS SHOWN ON STRUCTURAL DRAWINGS, ROOF CURBS, WALKING MATS, AND FLASHINGS AS NEEDED TO ALLOW ACCESS TO PERFORM ALL REQUIRED WORK ON THE NEW UNITS. DEMOLITION SIZES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR CAN DETERMINE IN FIELD WHAT IS REQUIRED TO COMPLETE EACH TASK. ANYTHING WITHIN THE HATCH IS TO BE DEMOLISHED WHETHER IDENTIFIED OR NOT, EXCEPT THE STRUCTURAL SYSTEM. CUT HOLES IN ROOF AS NEEDED FOR DUCT OR PIPE PENETRATION, NOT SHOWN HERE. SEE MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- DEMO EXISTING EQUIPMENT TYP. WHERE OCCURS ON ROOF PLAN

LEGEND



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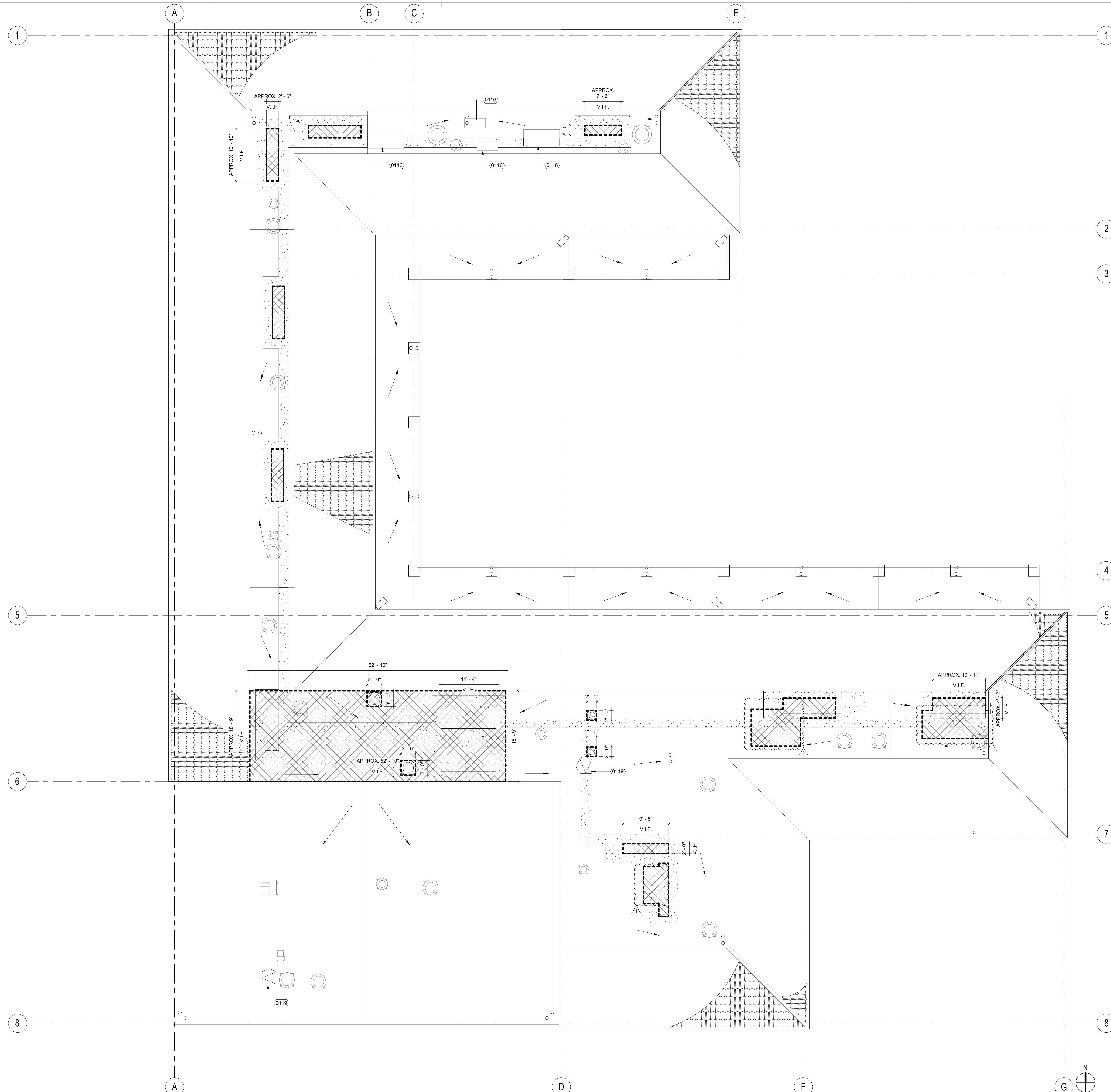
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: JY CHECKED: SJ
DATE: 02/26/2020 SCALE: As indicated
PROJECT NUMBER: 1917000

**DEMO ROOF
PLAN - BLDG K**

DRAWING NUMBER: **AK4.0**



DEMO ROOF PLAN - BLDG K 1/8" = 1'-0" 1

SITE KEY PLAN

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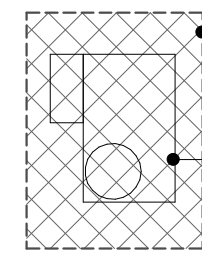
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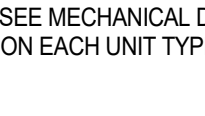
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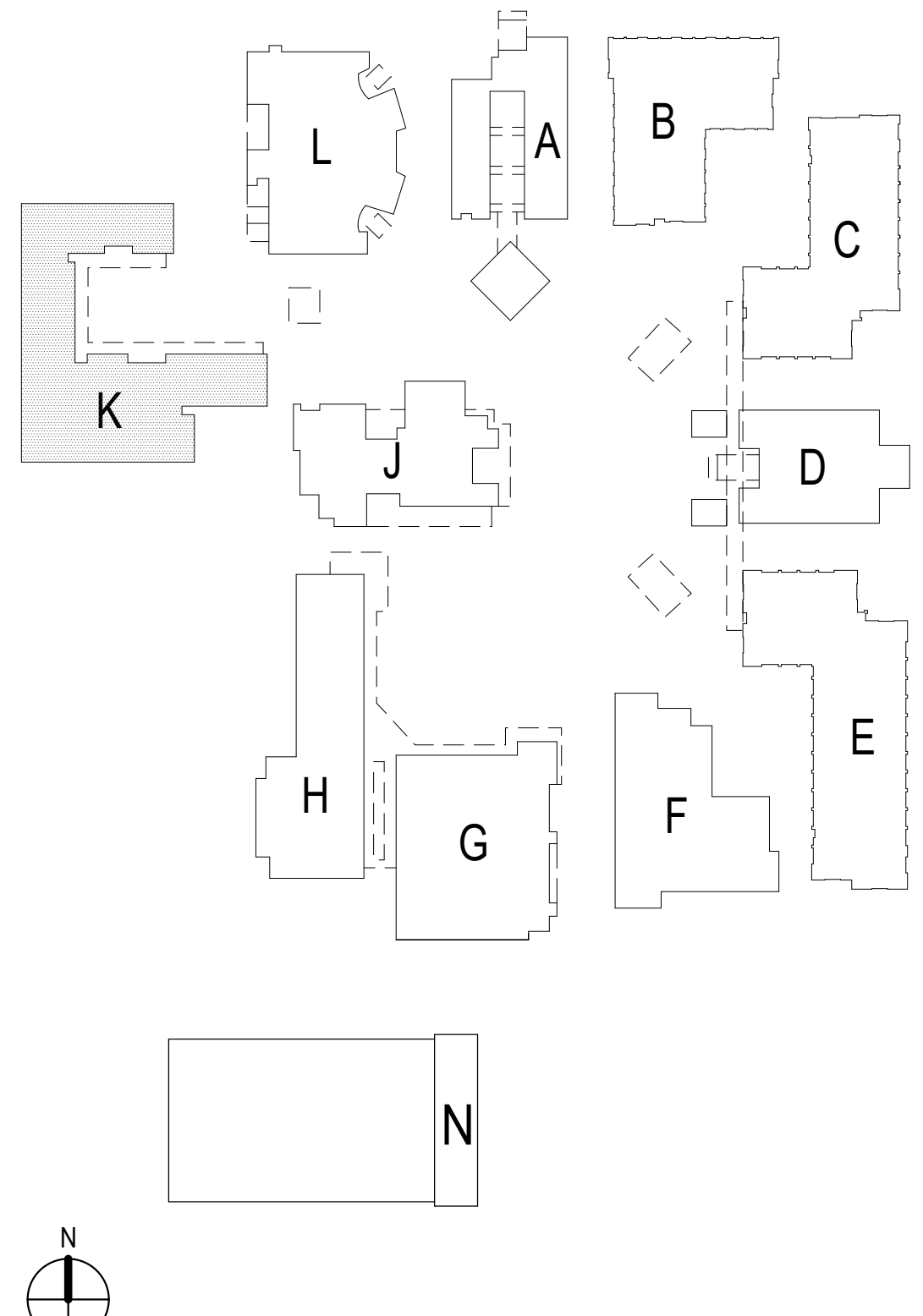
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REFERENCE NOTES	
KEYNOTE	DESCRIPTION
1508	(N) HEAT PUMP. SEE MECH DWGS
1510	(N) MECH UNIT. SEE MECH DWGS

 PATCH BACK ROOFING MATERIAL PER DETAIL 67.1 AND SPECIFICATION. INFL. DECK PER 1450.3. PROVIDE RIGID INSULATION TO MATCH EXISTING

 NEW AC UNIT. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION ON EACH UNIT TYPICAL.

LEGEND



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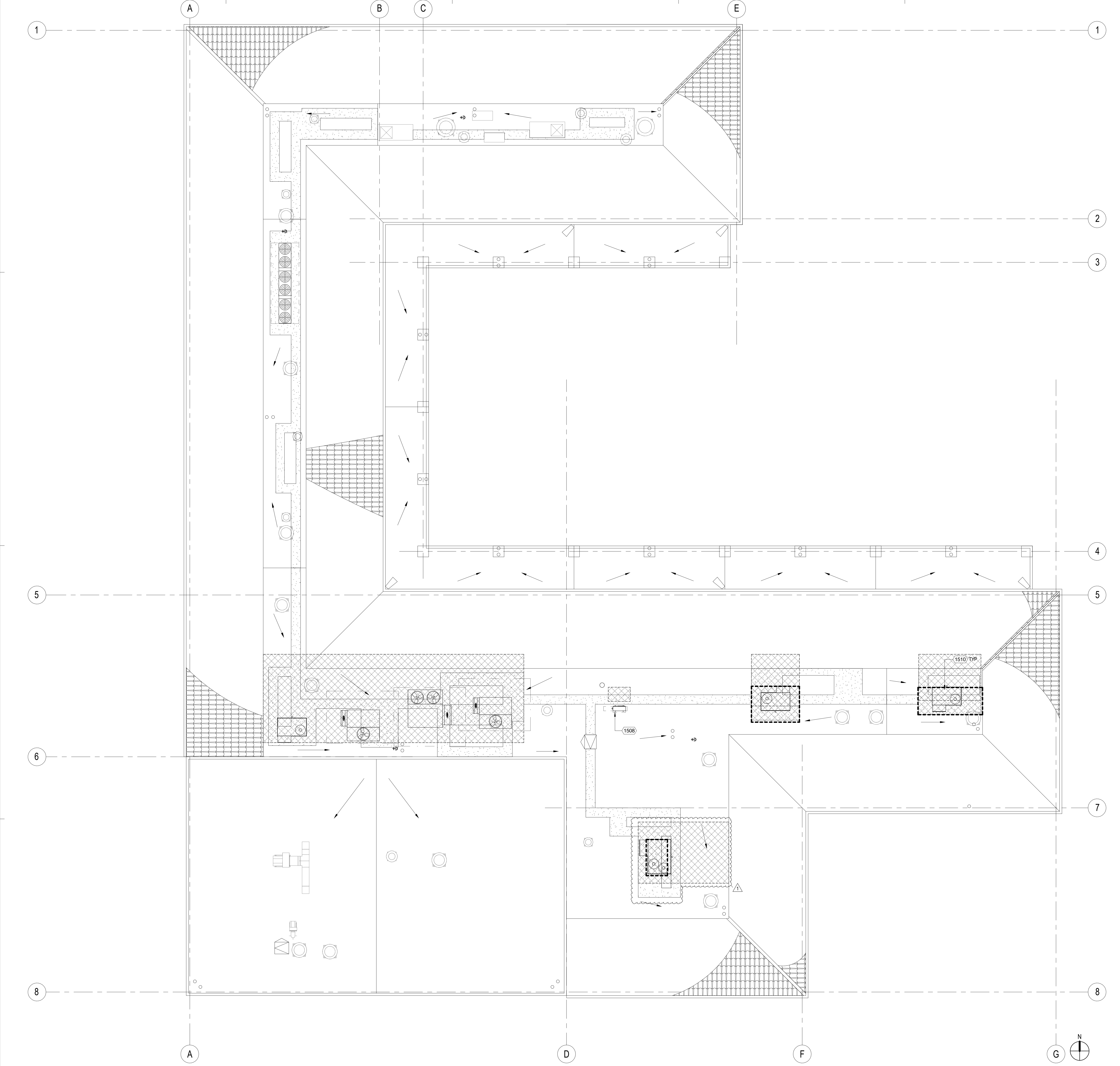
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REVISIONS			

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DATE: 02/26/2020 SCALE: As indicated
PROJECT NUMBER: 1917000

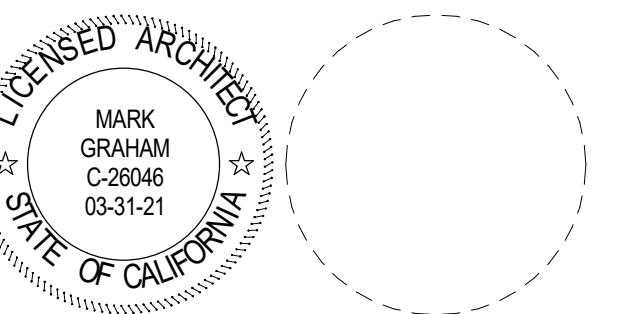
**NEW ROOF PLAN
- BLDG K**

DRAWING NUMBER: **AK4.1**



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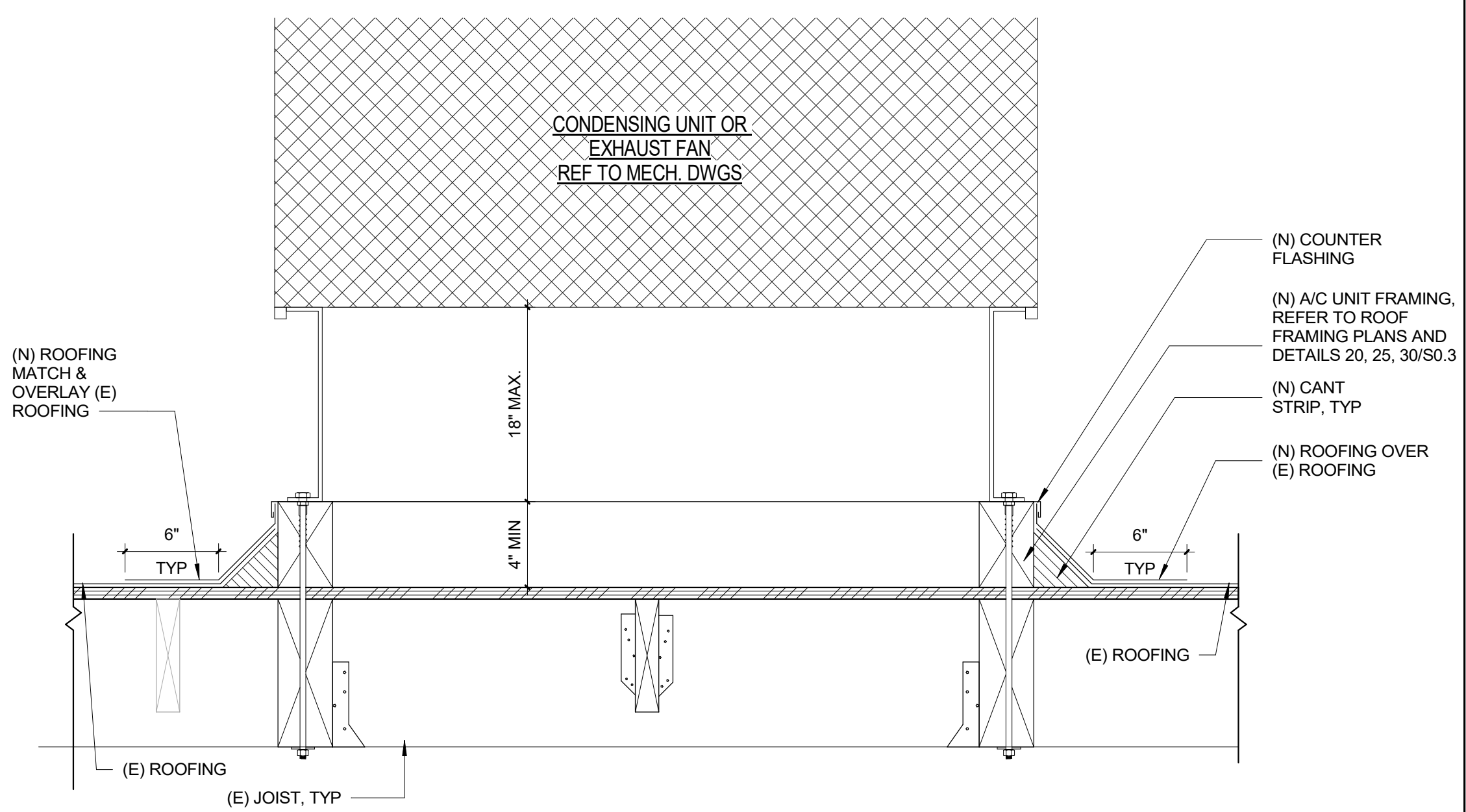
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REVISIONS			

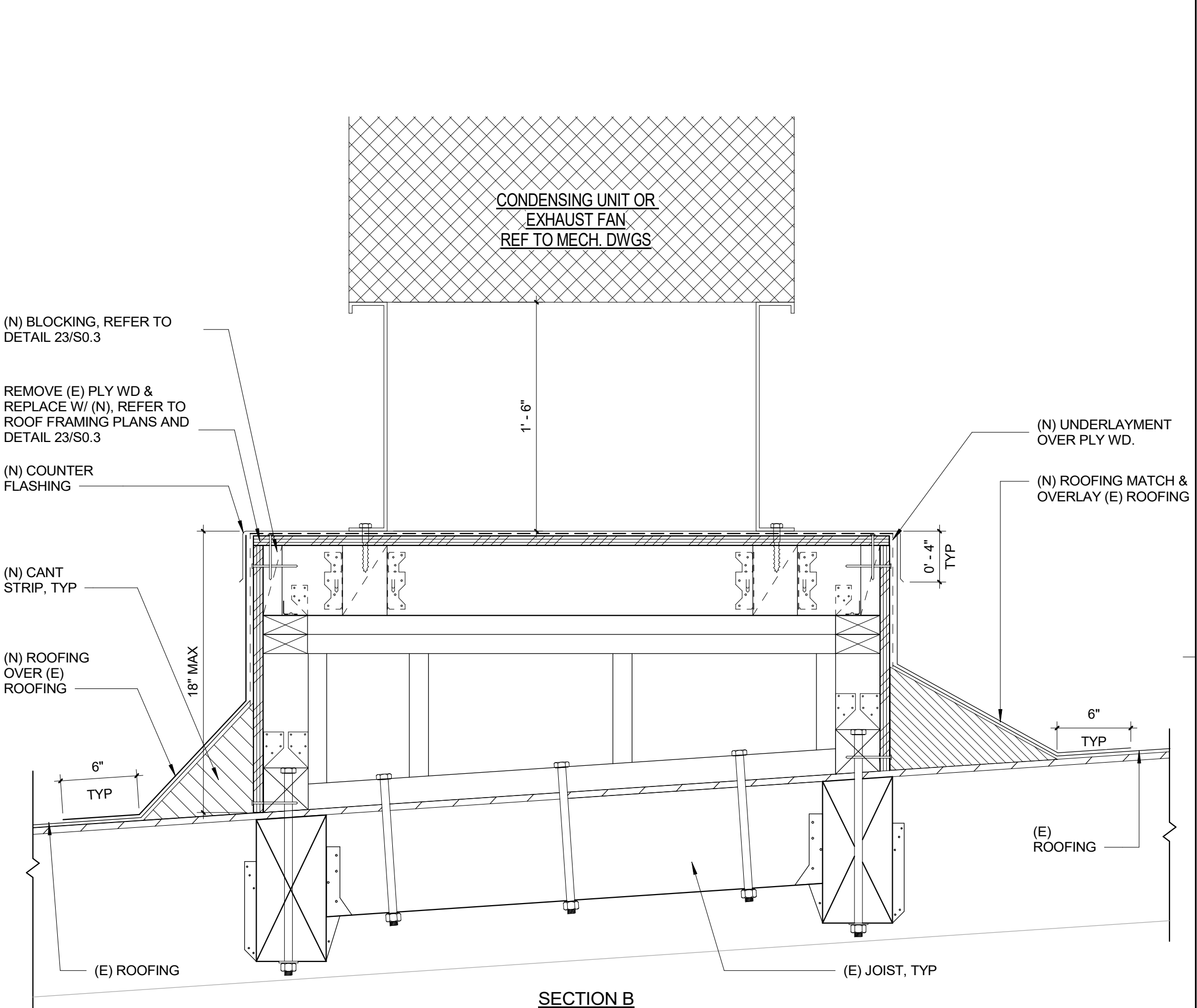
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DATE: 02/26/2020 SCALE: As indicated
PROJECT NUMBER: 1917000

**THERMAL AND
MOISTURE
PROTECTION**

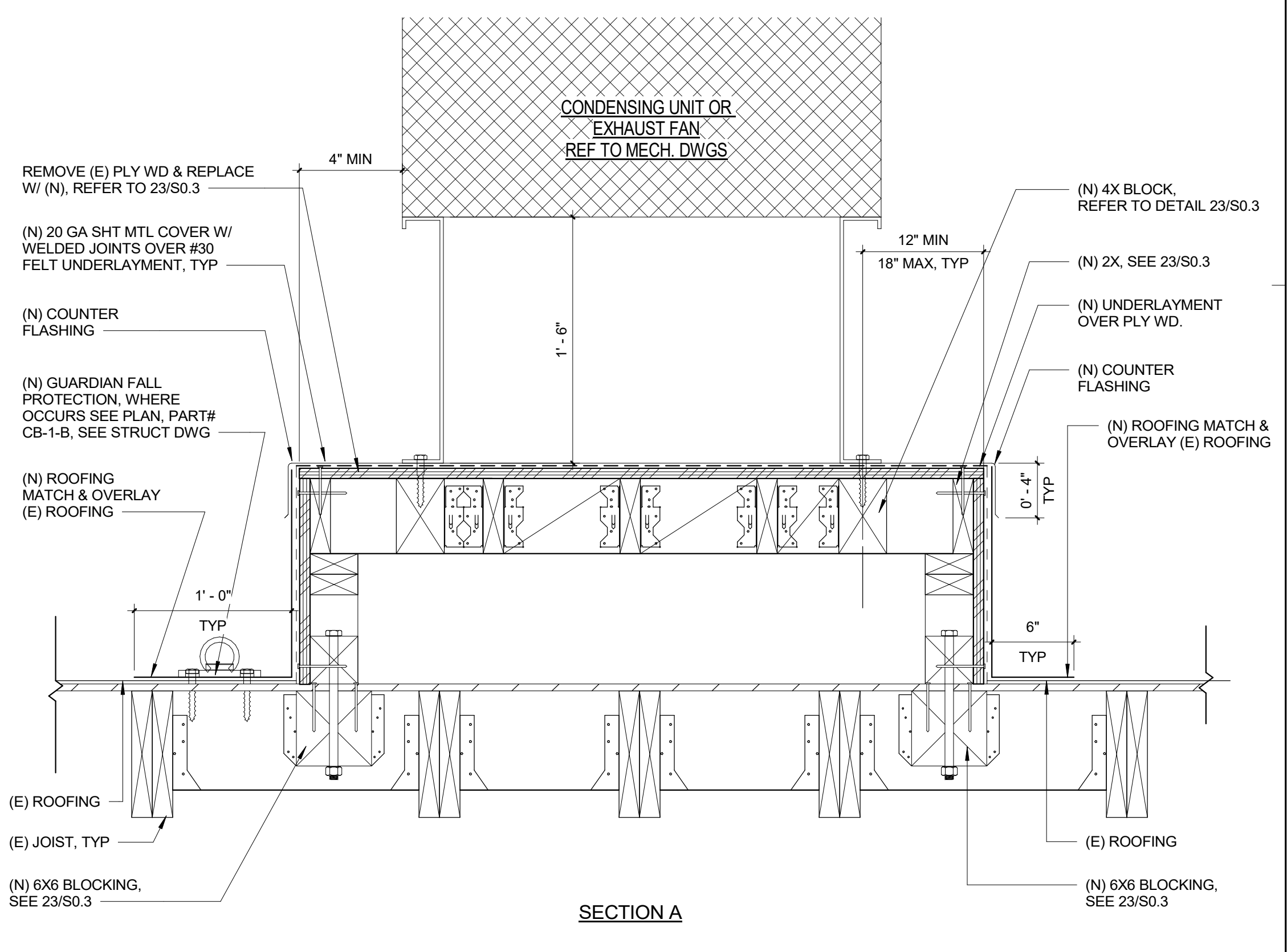
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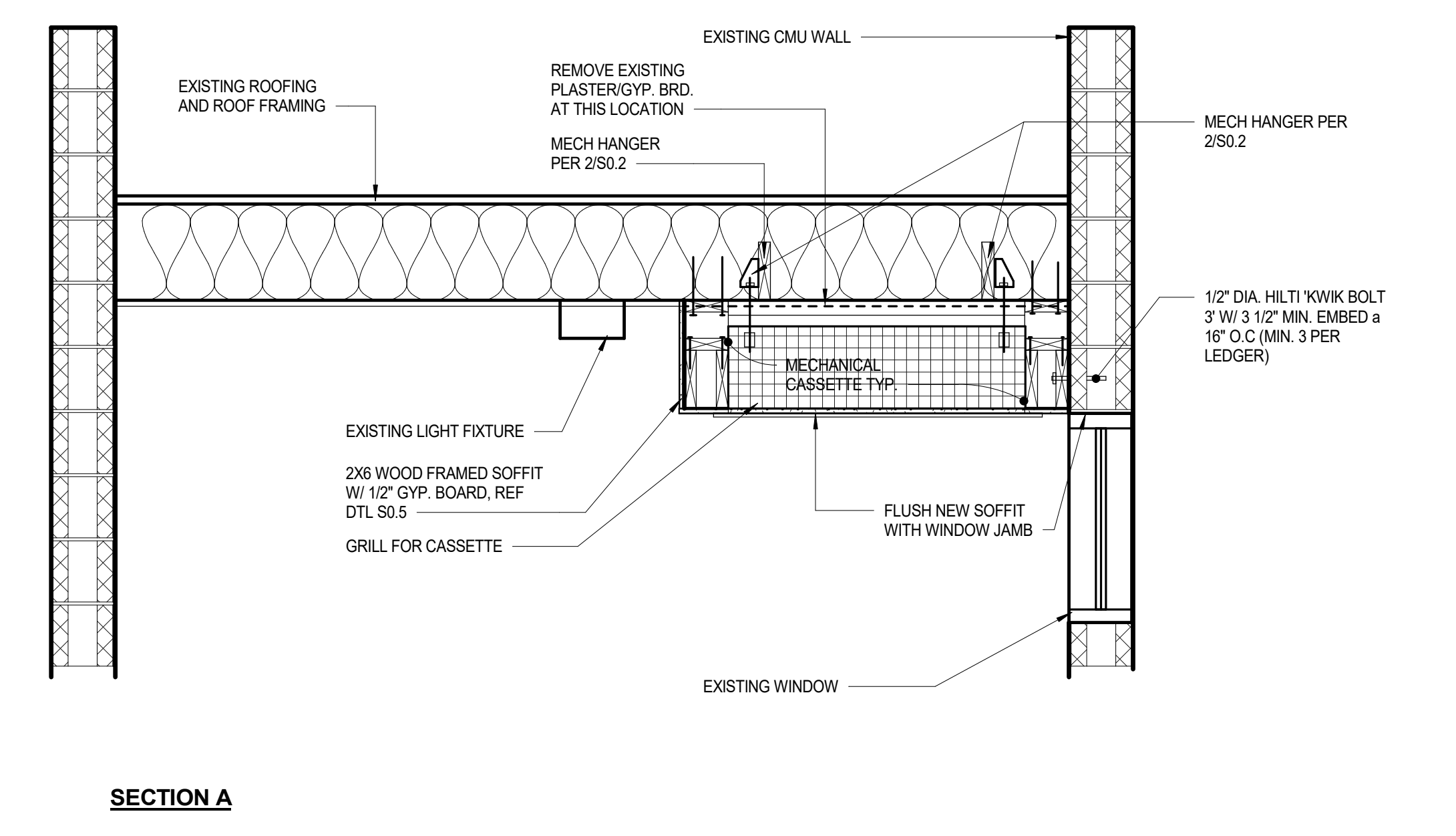
TYP FLASHING @ A/C UNIT FRAMING 1 1/2" = 1'-0" 1



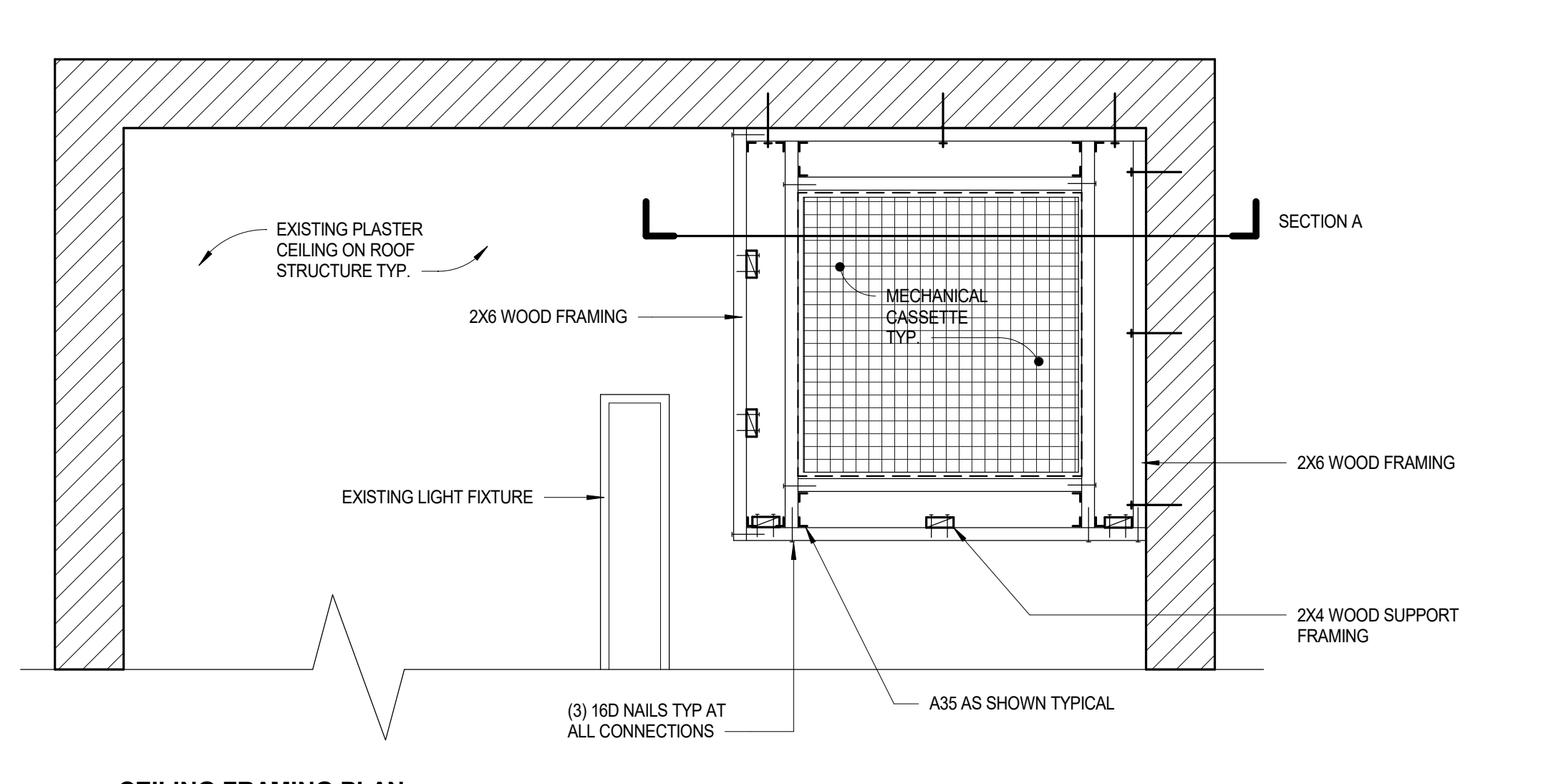
SECTION B



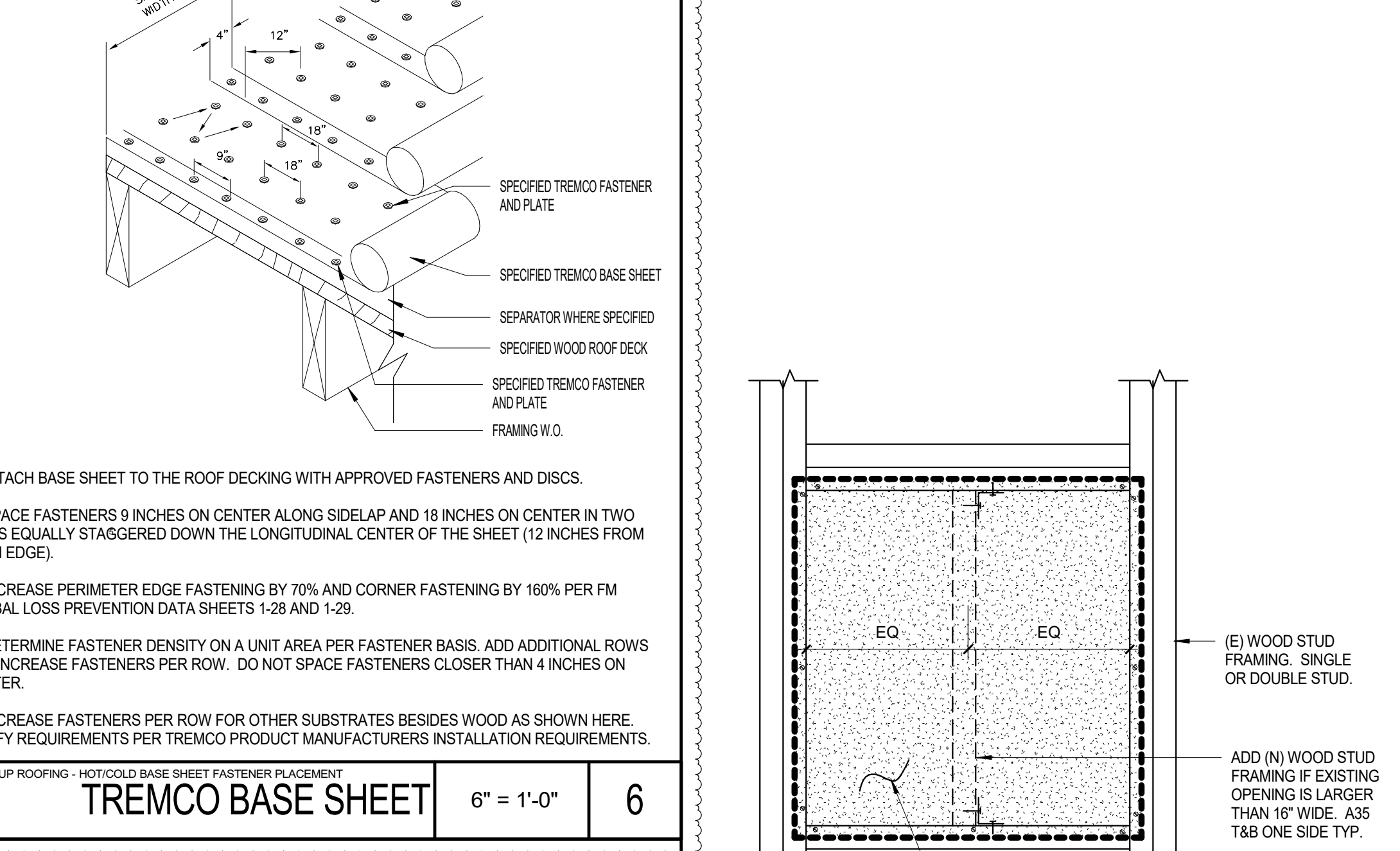
CONDENSING UNIT & EXHAUST FAN CURB 1 1/2" = 1'-0" 2



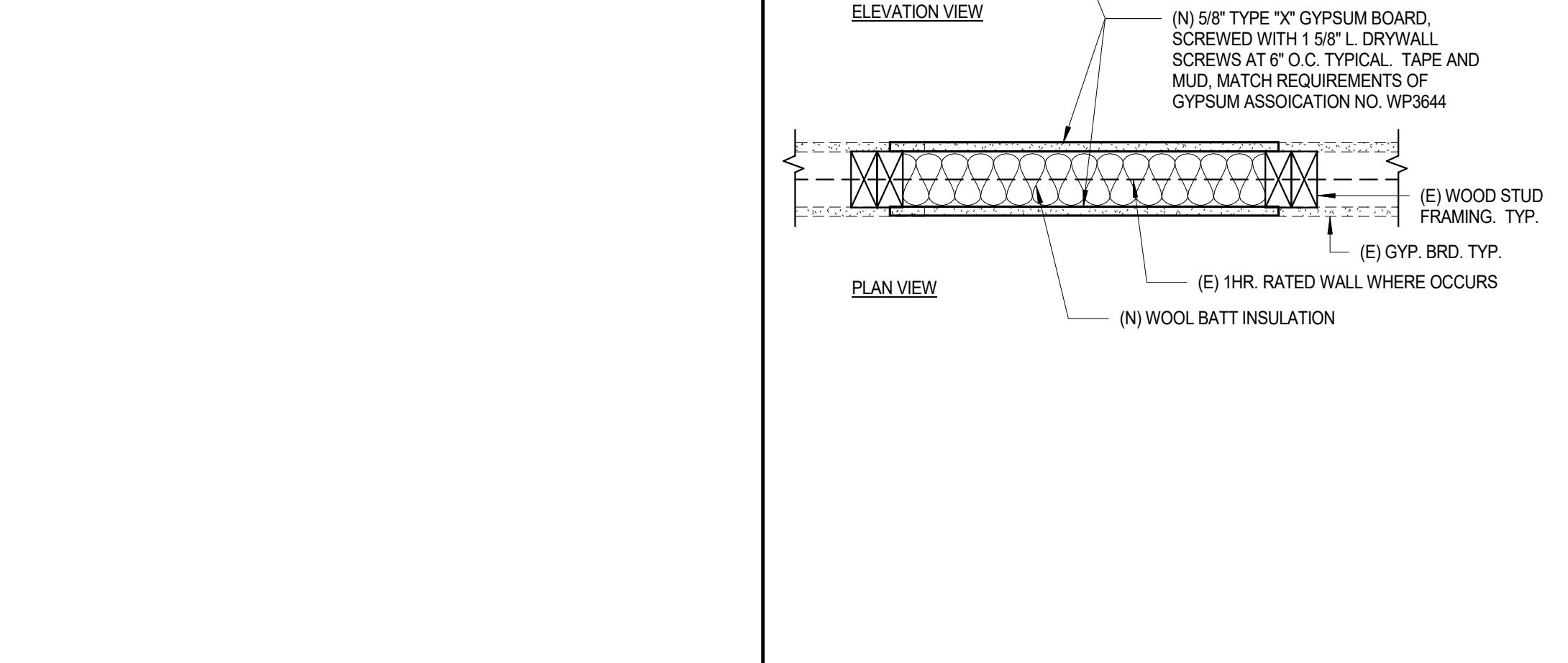
SECTION A



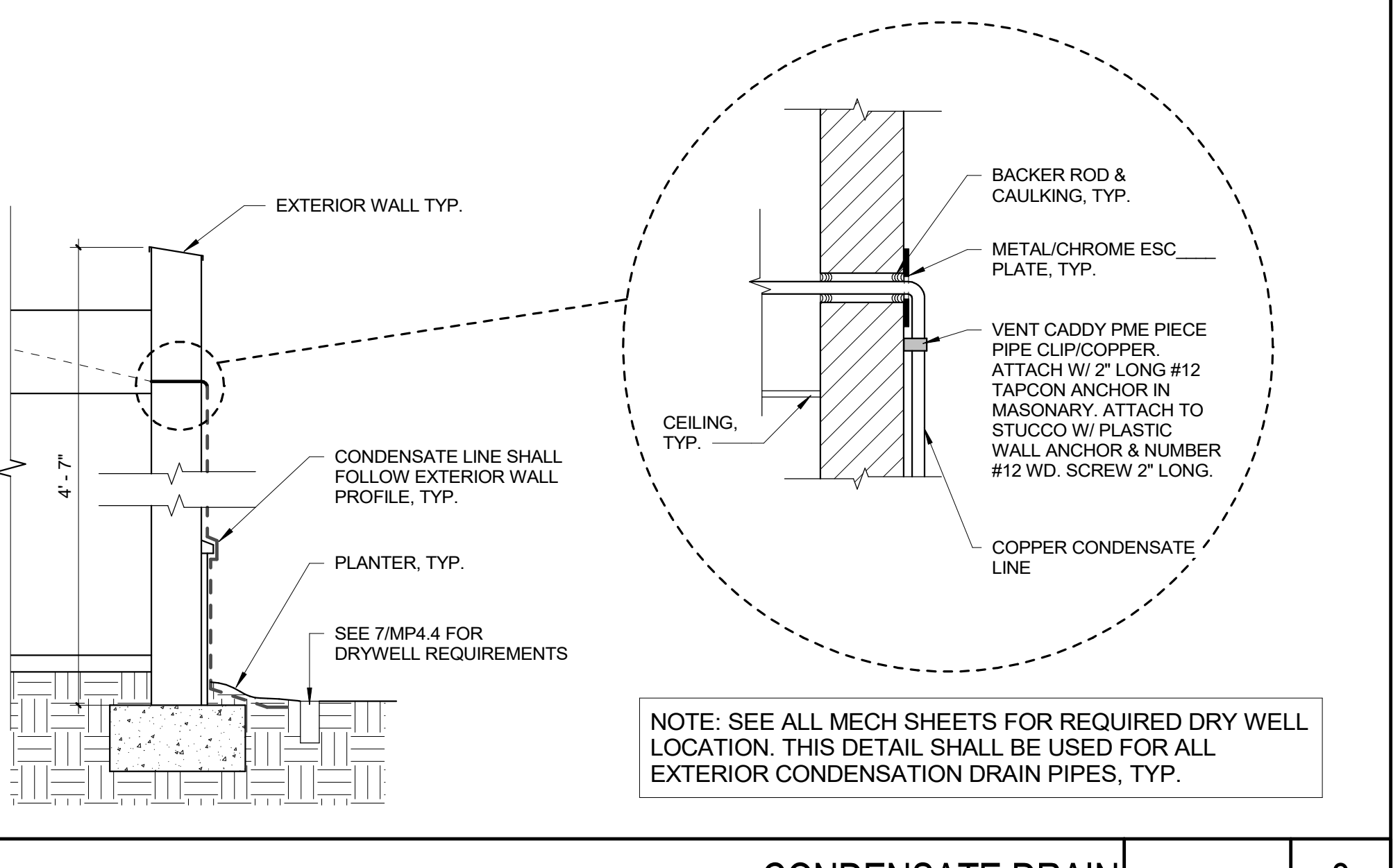
SOFFIT AT POOL BLDG. "N" 3/4" = 1'-0" 3



TREMCO BASE SHEET 6" = 1'-0" 6



FIRE DAMPER INFILL 1 1/2" = 1'-0" 5



CONDENSATE DRAIN 3/4" = 1'-0" 8

WHEN INSTALLING CONDENSATE LINES TO THESE SINKS AND SIMILAR OTHERS, CONTRACTOR SHALL REMOVE WALL TILES, GROUT, SUBSTRATE, DAMP PROOFING MATERIAL, AND ALL ASSOCIATED ITEMS FOR A COMPLETE INSTALLATION. CONTRACTOR CAN OPEN THE BACK SIDE OF WALL IF ACCESSIBLE, AND REMOVE ALL MATERIALS THAT ARE PREVENTING INSTALLATION. LEAVE STRUCTURAL SYSTEMS IN PLACE TYPICAL.

CONTRACTOR SHALL PATCH BACK ALL MATERIALS TO MATCH EXISTING SIZE, SHAPE, THICKNESS FOR A NEAT, CLEAN INSTALLATION. THIS WILL INCLUDE TILE, GROUT, WATER PROOFING, INSULATION, TILE BACKER OR GYPSUM BOARD, TEXTURE, PRIME AND PAINT WALLS TO MATCH EXISTING WALLS. PAINT ENTIRE WALL TYPICAL. TEST ALL LINES WITH INSPECTOR PRIOR TO CLOSING UP WALL. ALL SINKS ARE ADA ACCESSIBLE, AND SHALL REMAIN THAT WAY UPON COMPLETION OF WORK.

PROVIDE FIRE CAULKING AT ALL RATED WALLS AS IDENTIFIED ON THE PLANS WHERE OCCURS.

ADDITIONAL SINKS BELOW SHOW DIFFERENT CONDITIONS YOU WILL FIND. ALL ABOVE NOTES APPLY TO ALL CONDITIONS WHERE OCCURS.

THIS IS A TYPICAL HOP SINK CONDITION. OKAY TO SURFACE MOUNT CONDENSATE LINES TO THESE SINKS.

THIS IS A TYPICAL CLASSROOM SINK. REMOVE TACKABLE WALL PANELS AS NEEDED, OR COME IN FROM OPPOSITE SIDE.

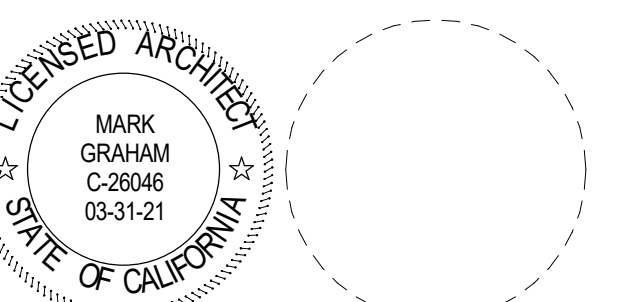
THIS IS A TYPICAL FLOOR SINK.

THIS IS A TYPICAL LABORATORY SINK IN BUILDING E. REMOVE UPPER CASWORK AND REINSTALL AS NEEDED TO GET CONDENSATE LINE IN THE WALL TYPICAL.

DRAIN CONNECTION @ SINK 3/4" = 1'-0" 9

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1	08/25/20	ADDENDUM 1

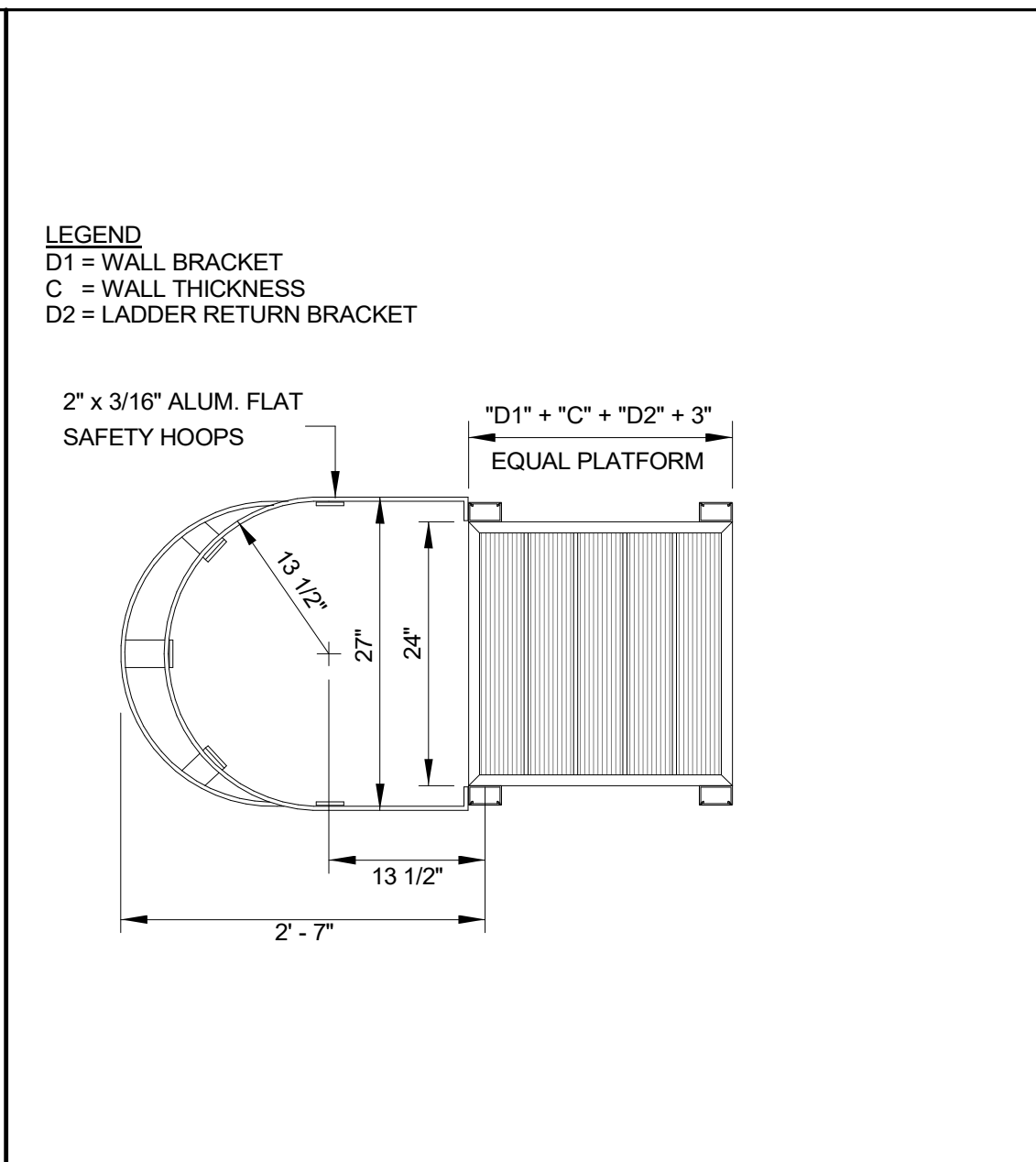
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REVISIONS			

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DATE: 08/09/20 SCALE: As indicated
PROJECT NUMBER: 1917000

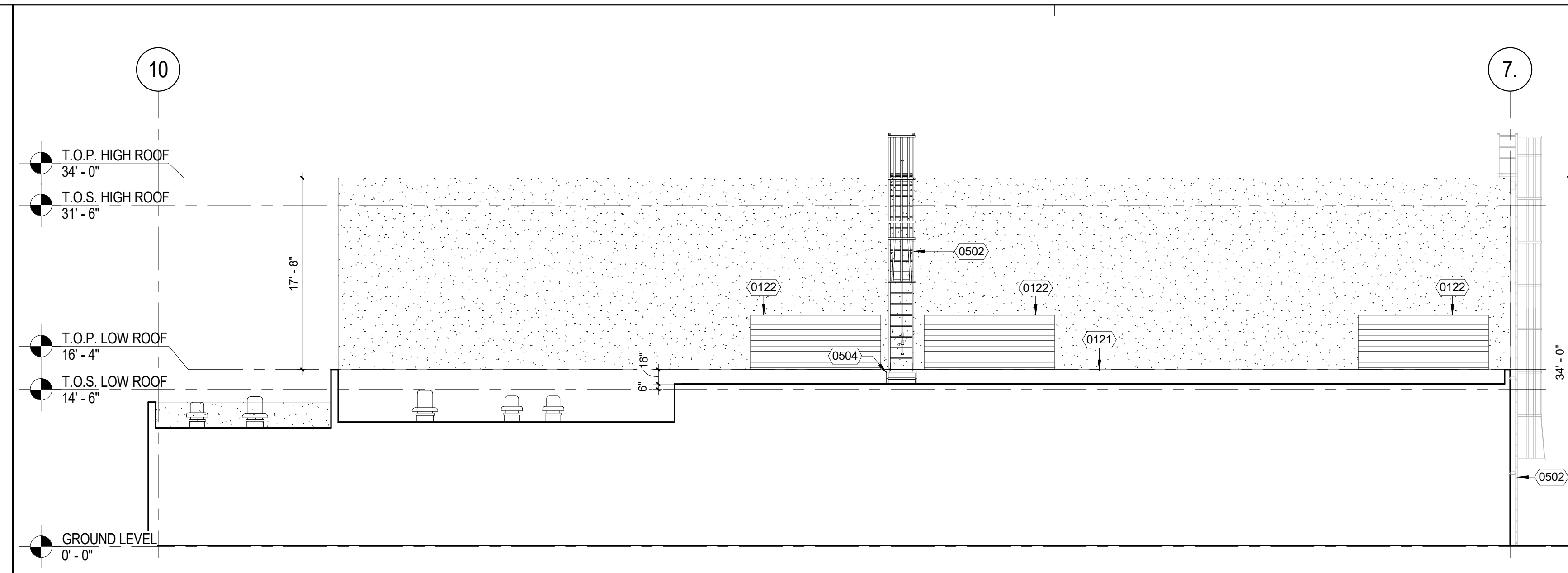
**ELEVATIONS AND
LADDER DETAILS**

REFERENCE NOTES

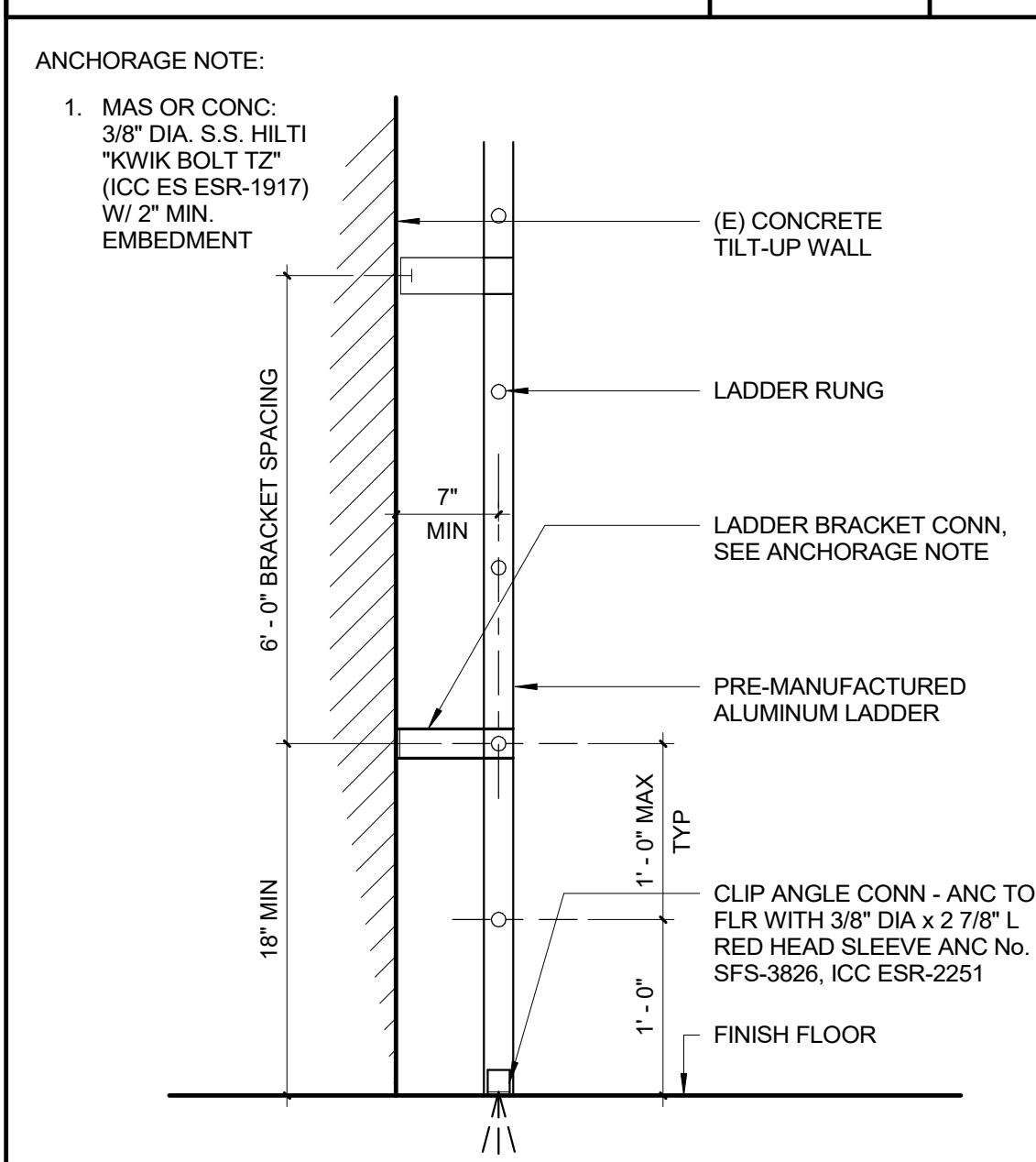
KEYNOTE	DESCRIPTION
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0122	(E) LOUVERS TO REMAIN, PROTECT IN PLACE
0502	(N) PRE-MANUFACTURED ACCESS LADDER W/ CAGE REF TO 3/ADD 1 AND SPECIFICATIONS
0504	(N) SINGLE STEP ACCESS W/ PLATFORM, REF TO 7/ADD 1



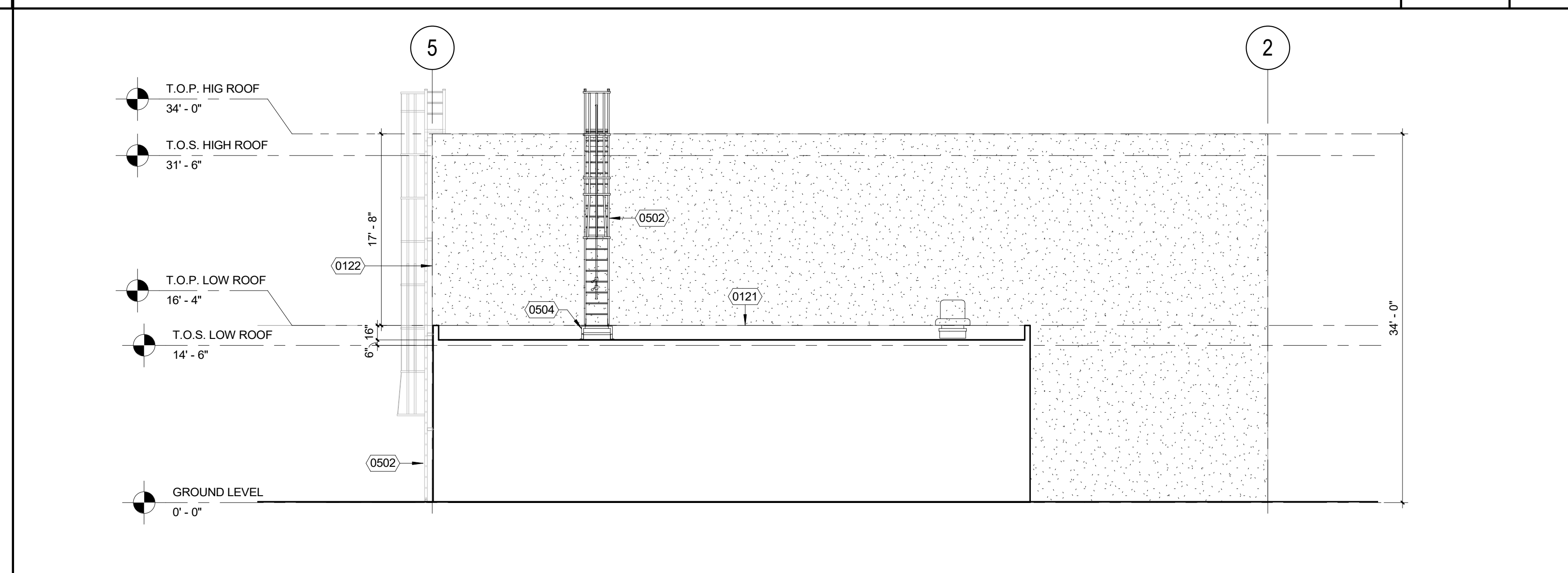
PLATFORM PLAN N.T.S. 5



BUILDING G ELEVATION 1/8" = 1'-0" 1

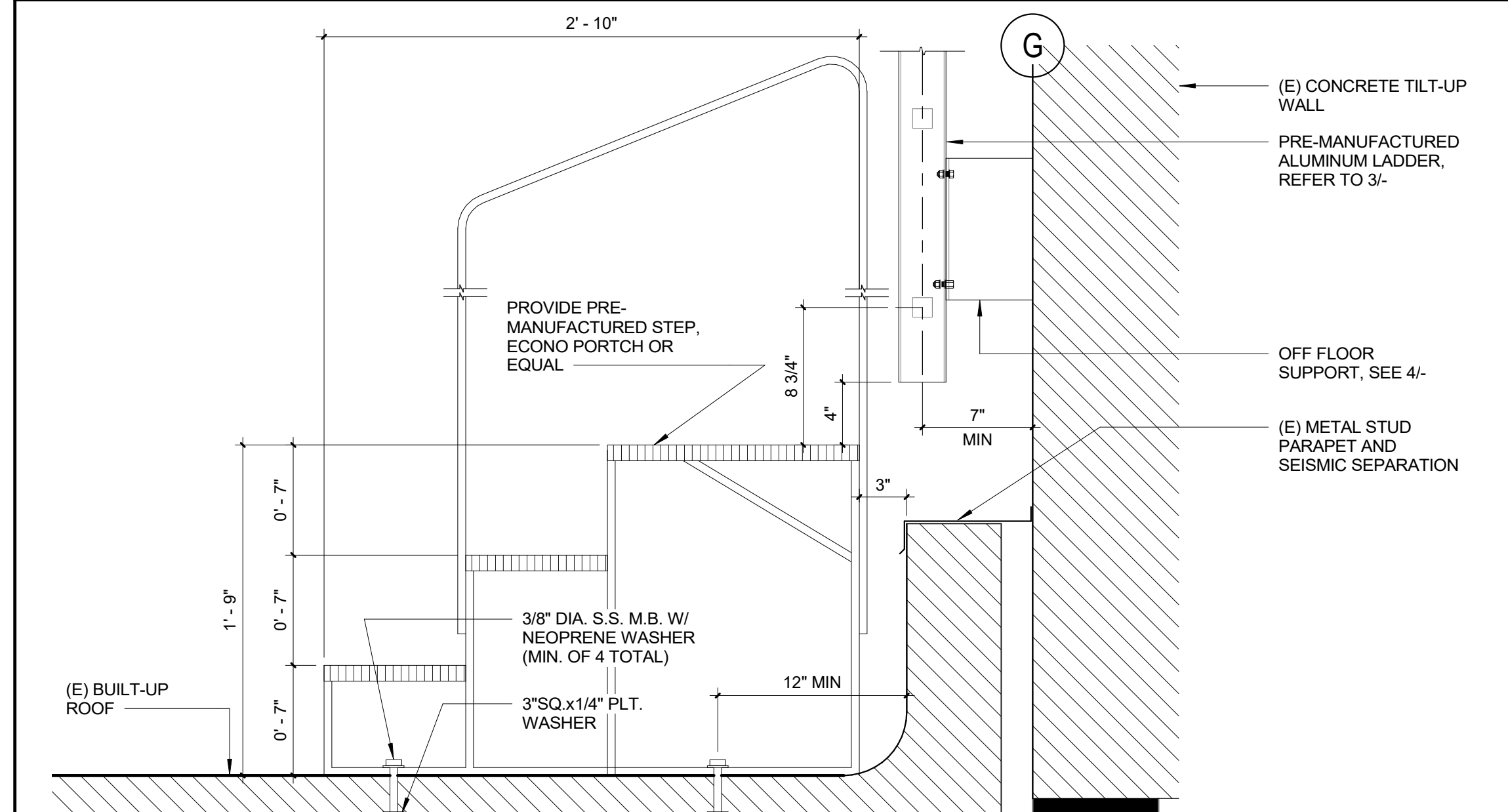


LADDER DETAIL 1" = 1'-0" 6

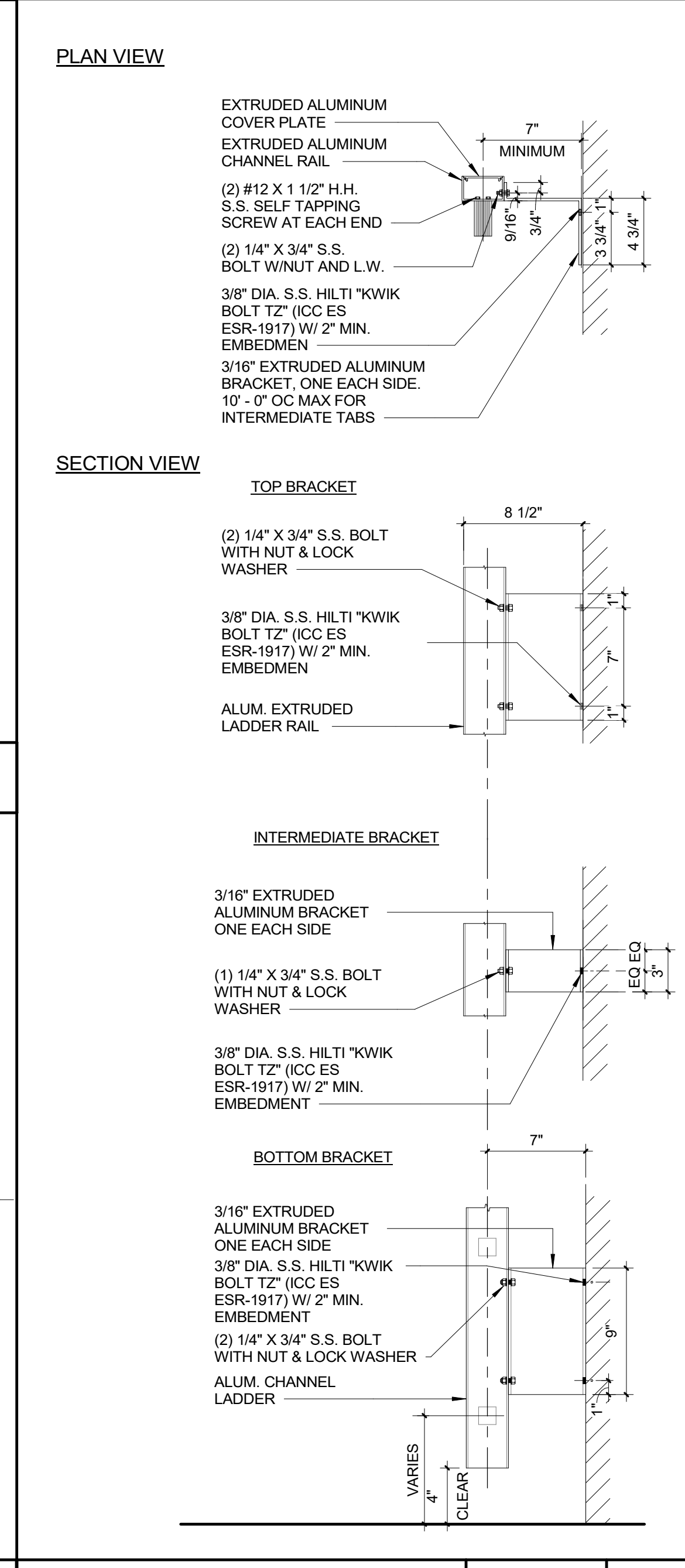


BUILDING H ELEVATION 1/8" = 1'-0" 2

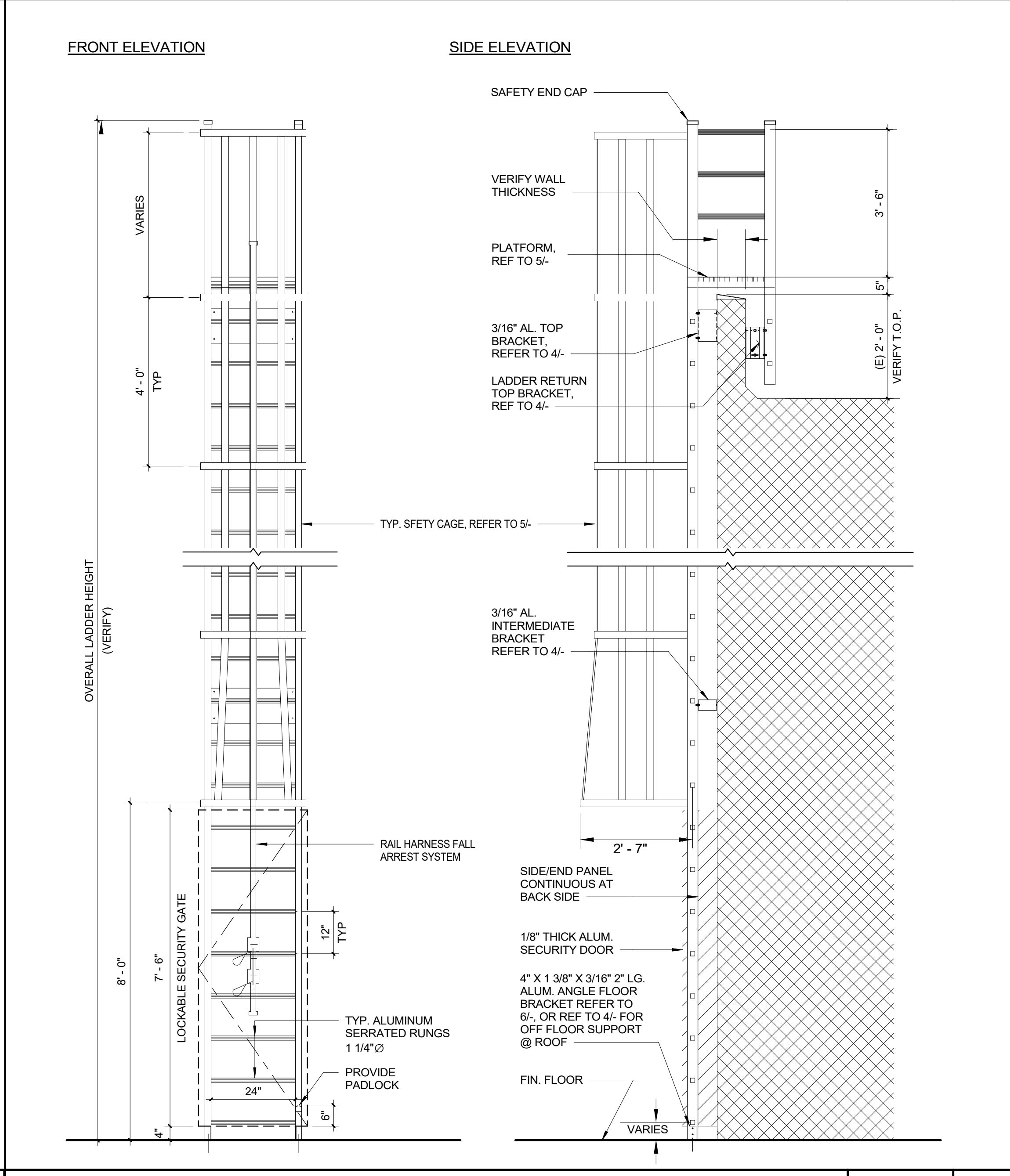
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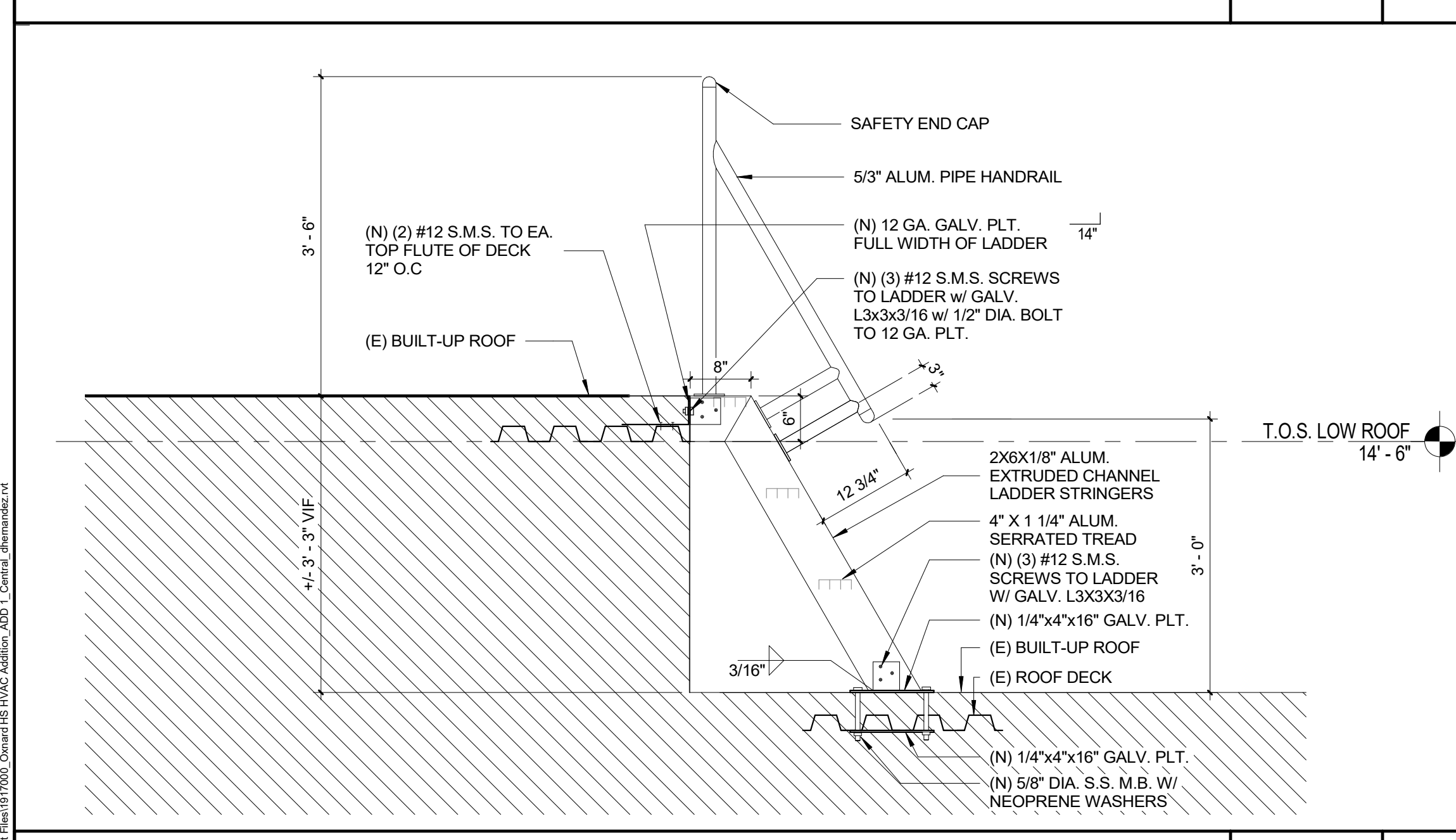
STAIR W/ PLATFORM 1 1/2" = 1'-0" 7



OFF FLOOR SUPPORT 1 1/2" = 1'-0" 4



LADDER DETAIL W/ CAGE N.T.S. 3



SHIP LADDER DETAIL 3/4" = 1'-0" 8

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Table with columns: NO, DATE, BY, DESCRIPTION. Includes revision 1 on 8/25/2019.

DRAWN: DATE: 12/08/2019 CHECKED: SCALE: N.T.S. PROJECT NUMBER: 20-19-06

GENERAL NOTES

DRAWING NUMBER: S01

DESIGN LOADS:

Table of design loads including roof live load, wind speed, seismic design category, and deflection amplification factors.

GENERAL:

- List of general construction requirements including compliance with 2019 C.A.C. Title 24, Part 1 and 2019 C.B.C. Title 24, Part 2.

STRUCTURAL OBSERVATION:

- Structural observation requirements including visual observation of the structural system and verification of reinforcement.

MECHANICAL UNIT FRAMING NOTES:

- Mechanical unit framing notes including coordination of mechanical unit type and quantity with structural drawings.

SPECIAL INSPECTION:

- Special inspection requirements for general construction, including inspection of reinforcement and concrete placement.

SPECIAL INSPECTION (CONCRETE):

- Special inspection requirements for concrete construction, including formwork and curing.

LUMBER:

- Lumber requirements including species, grading, and treatment, with a note on joist hangers.

NAILING SCHEDULE:

- Nailing schedule for various connections including joist-to-joist, joist-to-plate, and plate-to-plate.

STRUCTURAL STEEL:

- Structural steel requirements including material specifications, connections, and fielding.

METAL DECKING:

- Metal decking requirements including material type and fastening.

SPECIAL INSPECTION (STEEL):

- Special inspection requirements for steel fabrication and erection.

Table for required verification and inspection of steel construction, detailing inspection items and criteria.

LEGEND:

Legend table defining abbreviations for materials, connections, and details used in the drawings.

COLD-FORMED METAL FRAMING:

- Cold-formed metal framing requirements including material specifications and fastening.

ADHESIVE ANCHORS IN CONCRETE:

Table for adhesive anchors in concrete, showing rebar and all-thread specifications.

- Adhesive anchors requirements including installation procedures and testing.

PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:

- Proof load test procedures for expansion type anchor bolts, including test methods and criteria.

Table for expansion anchors test values, showing load and torque requirements for different diameters.

EXPANSION ANCHORS TEST VALUES:

Table for expansion anchors test values, showing load and torque requirements for different diameters.

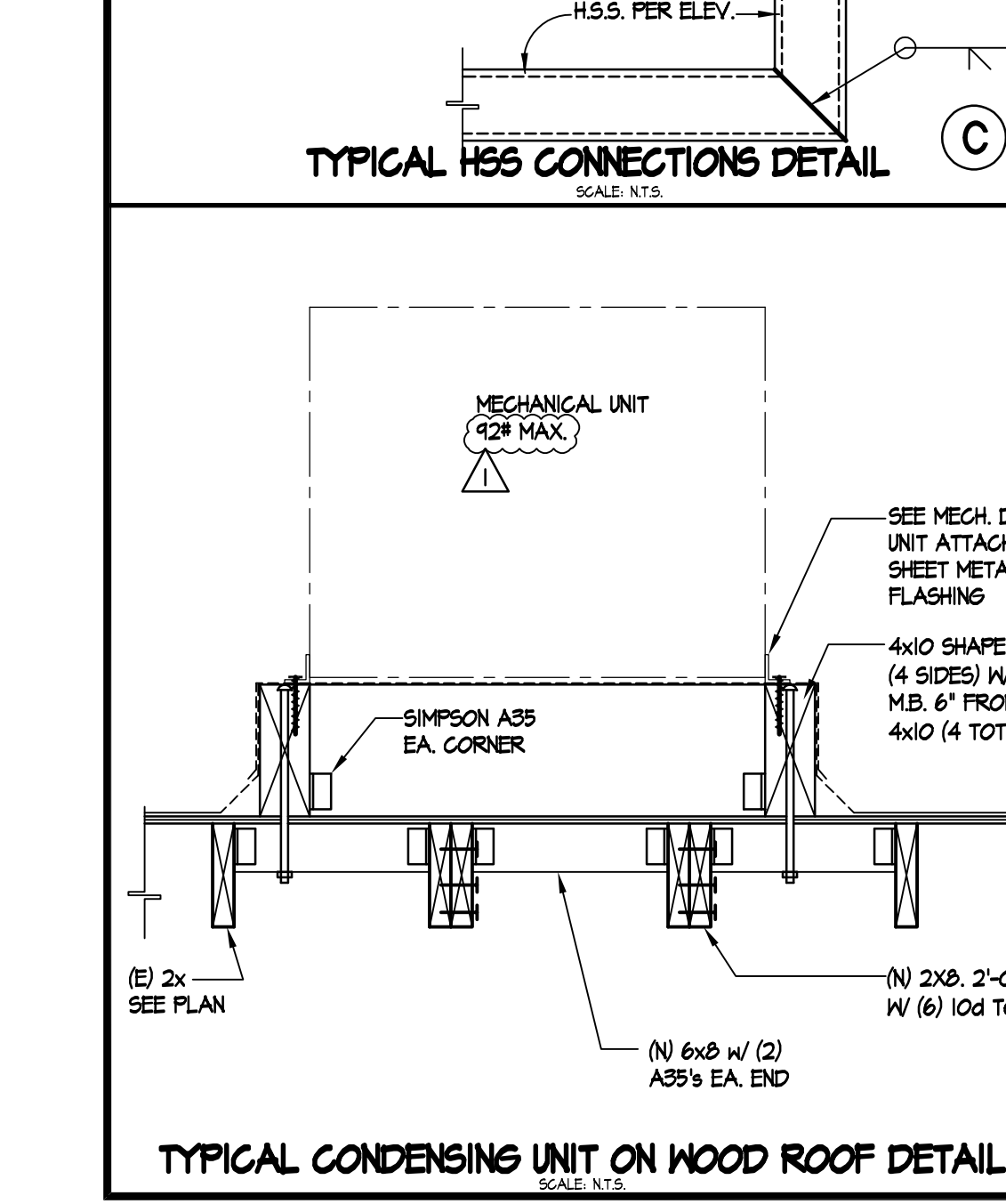
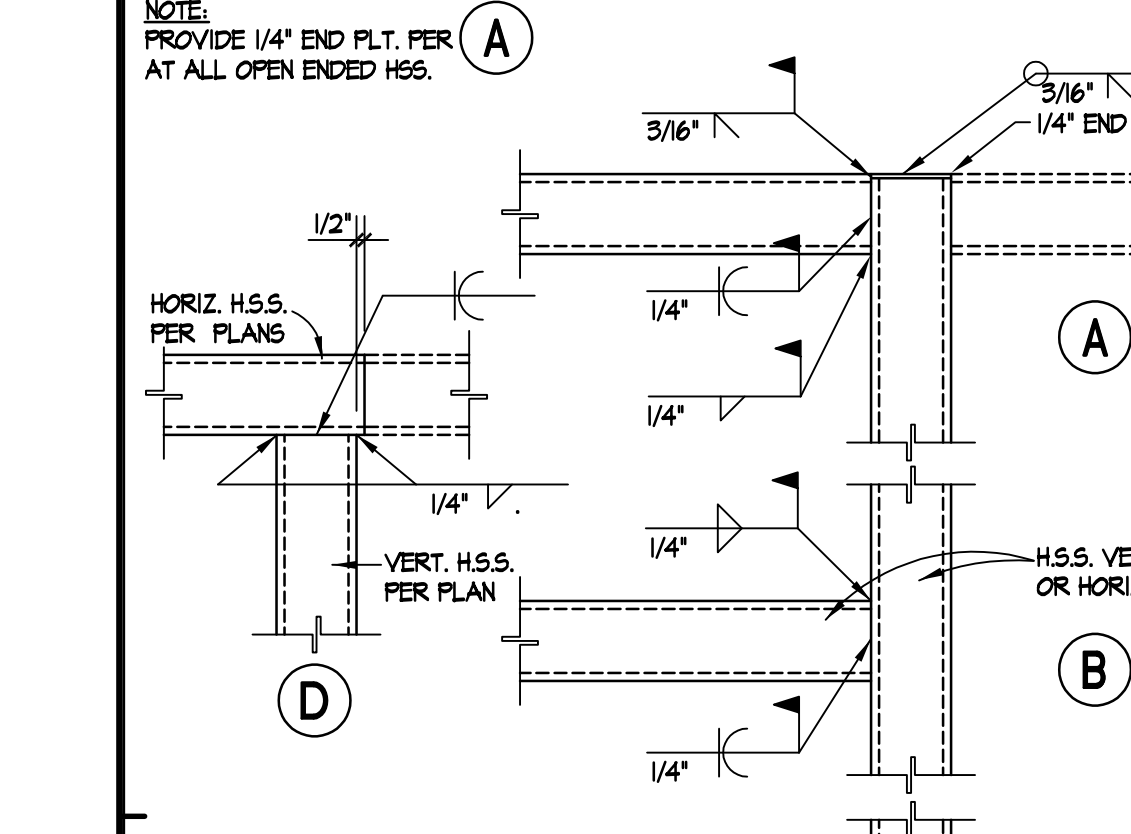
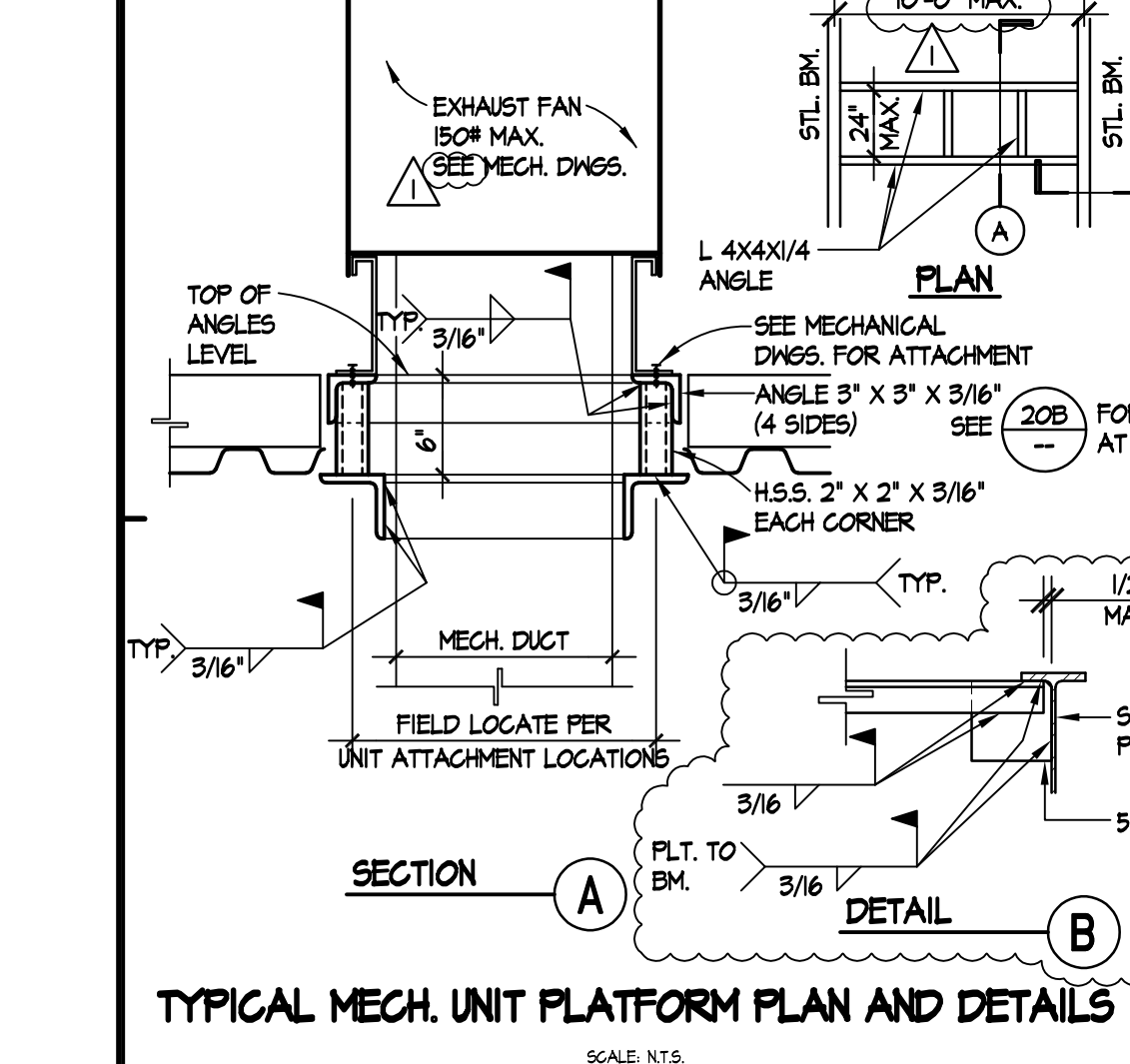
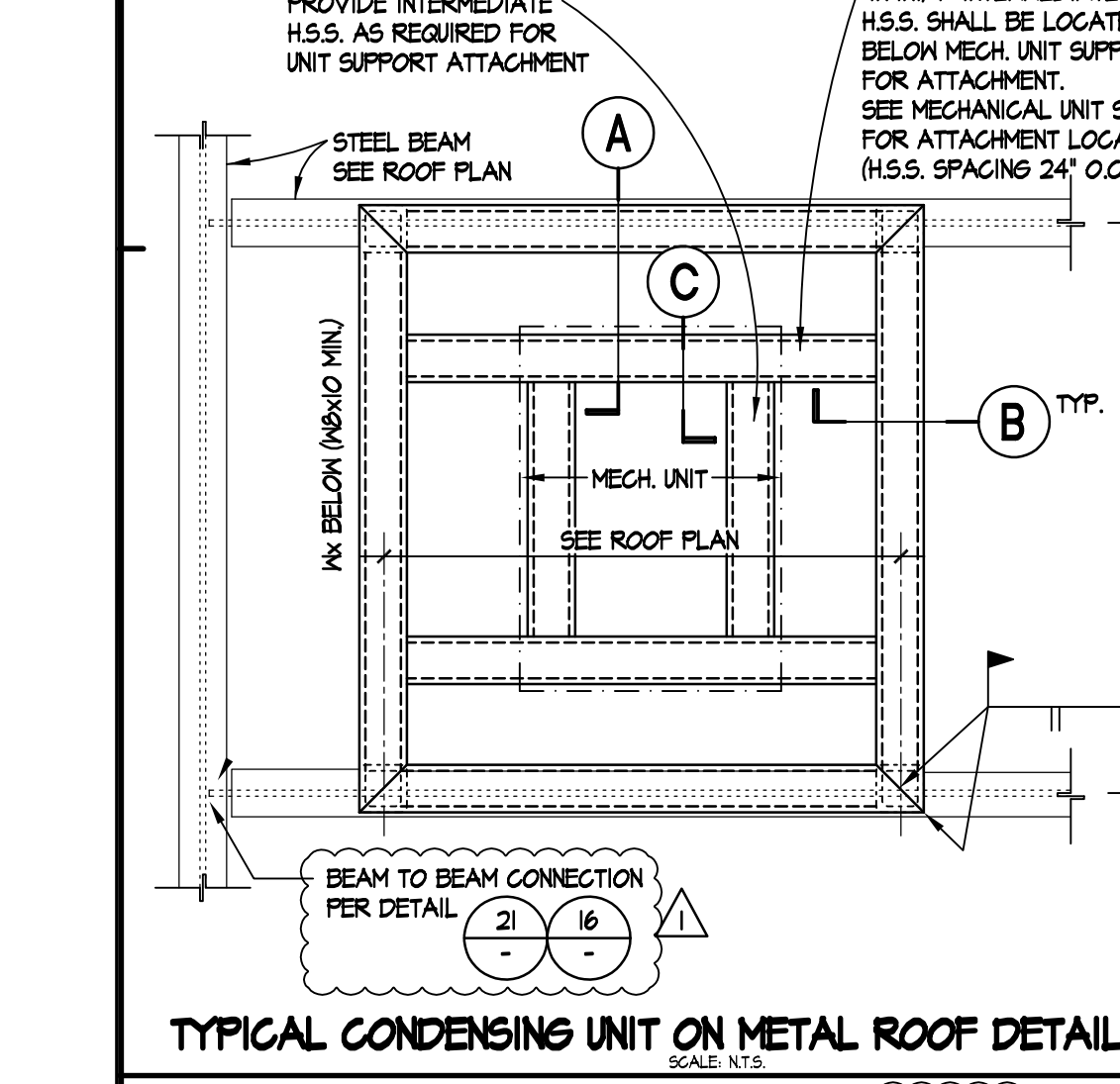
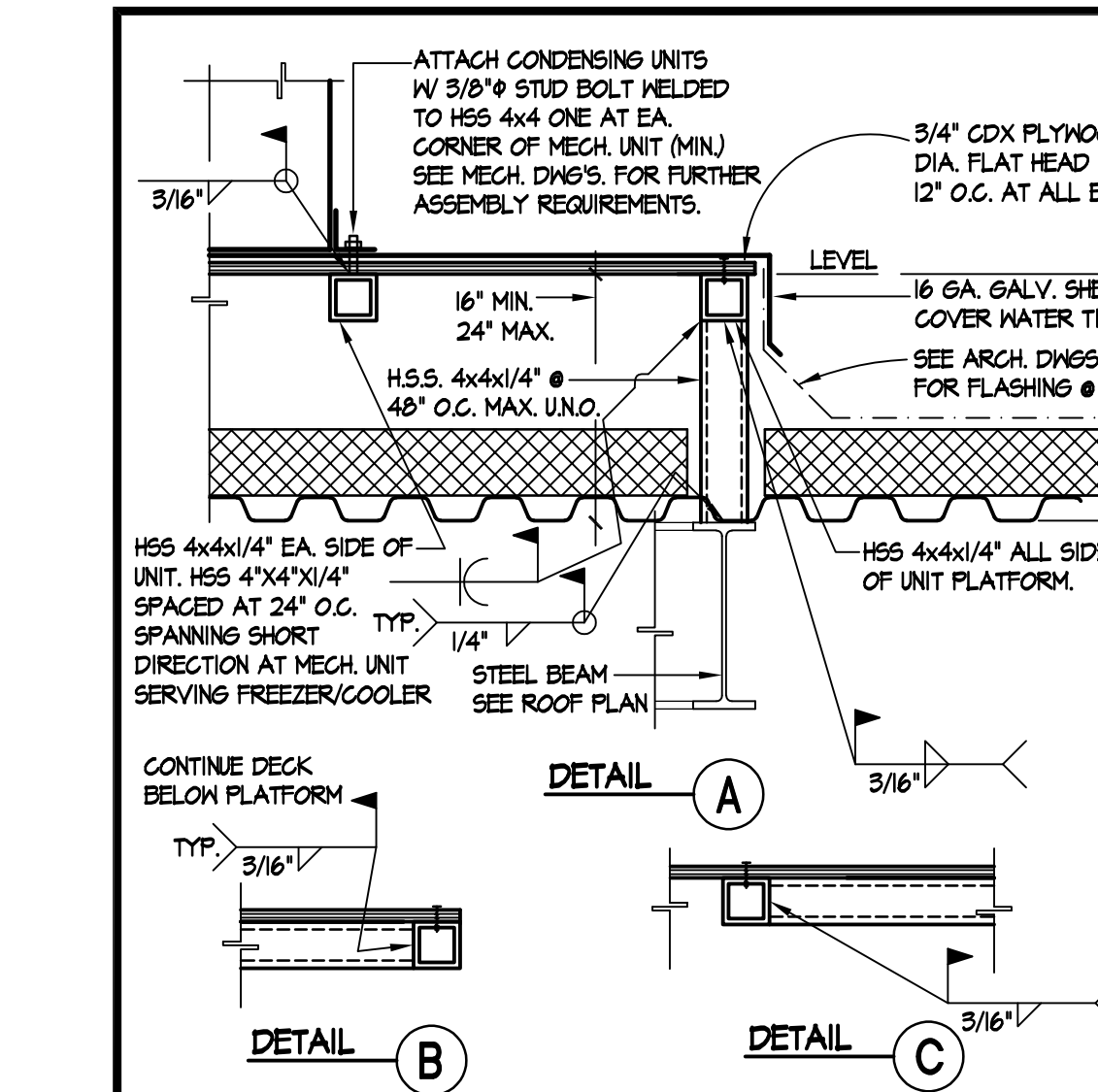
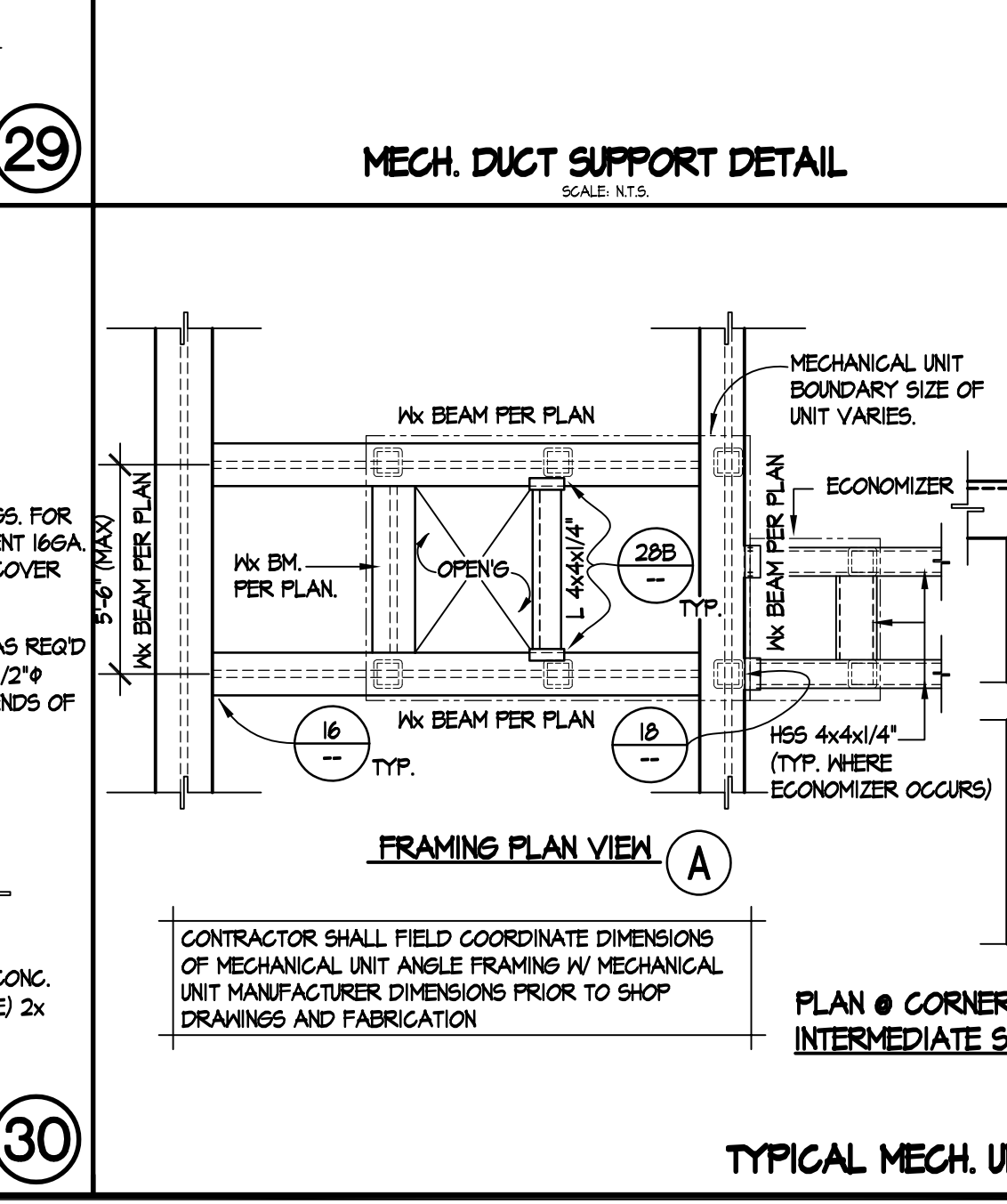
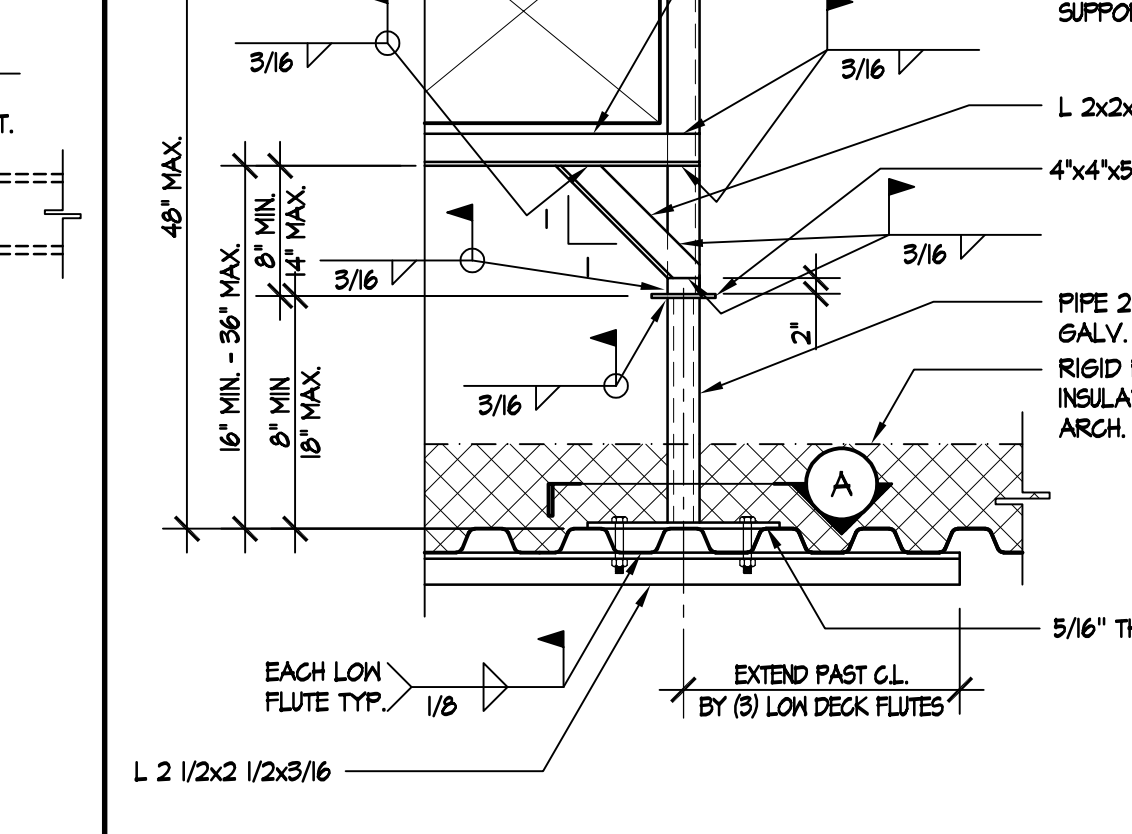
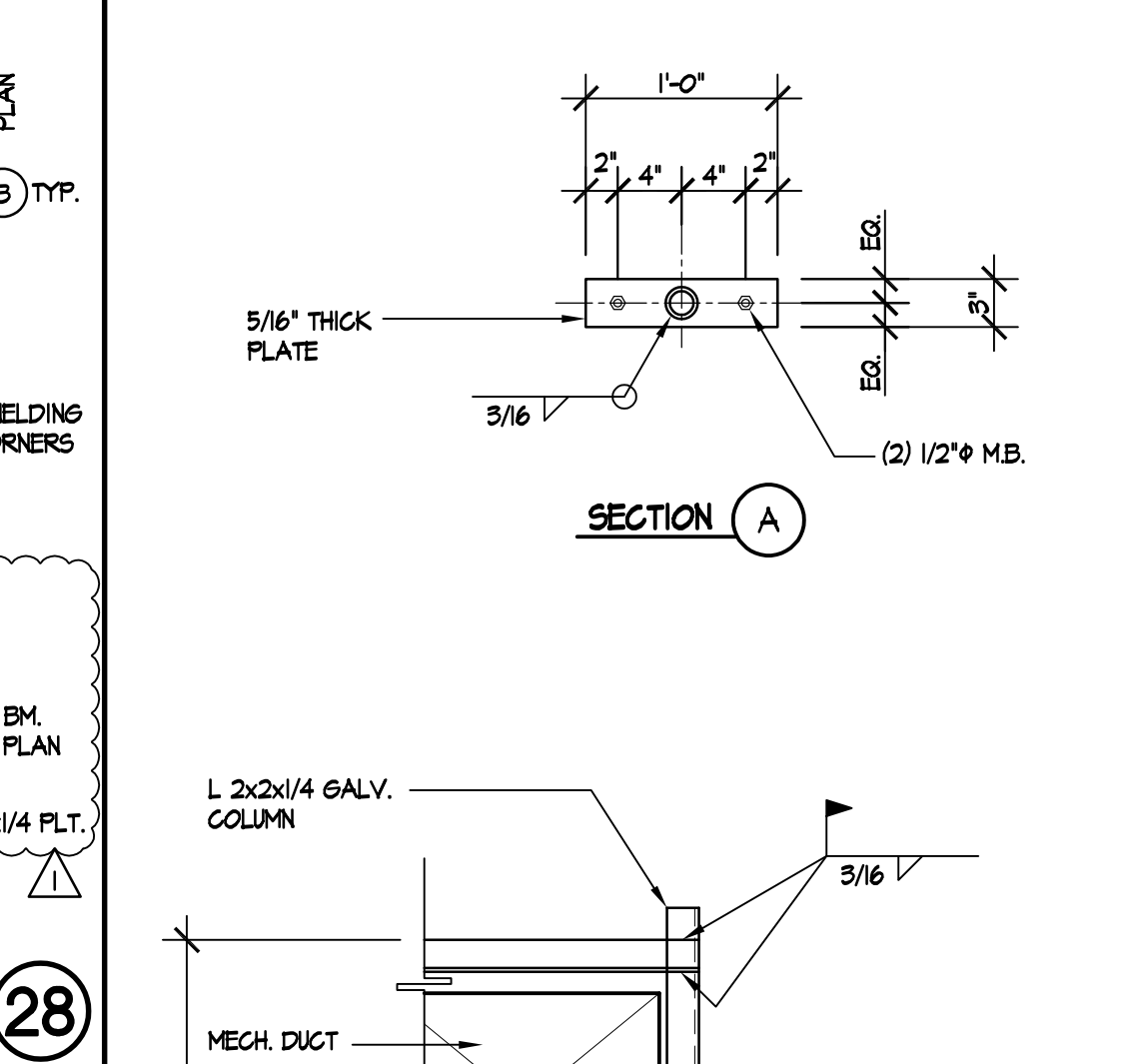
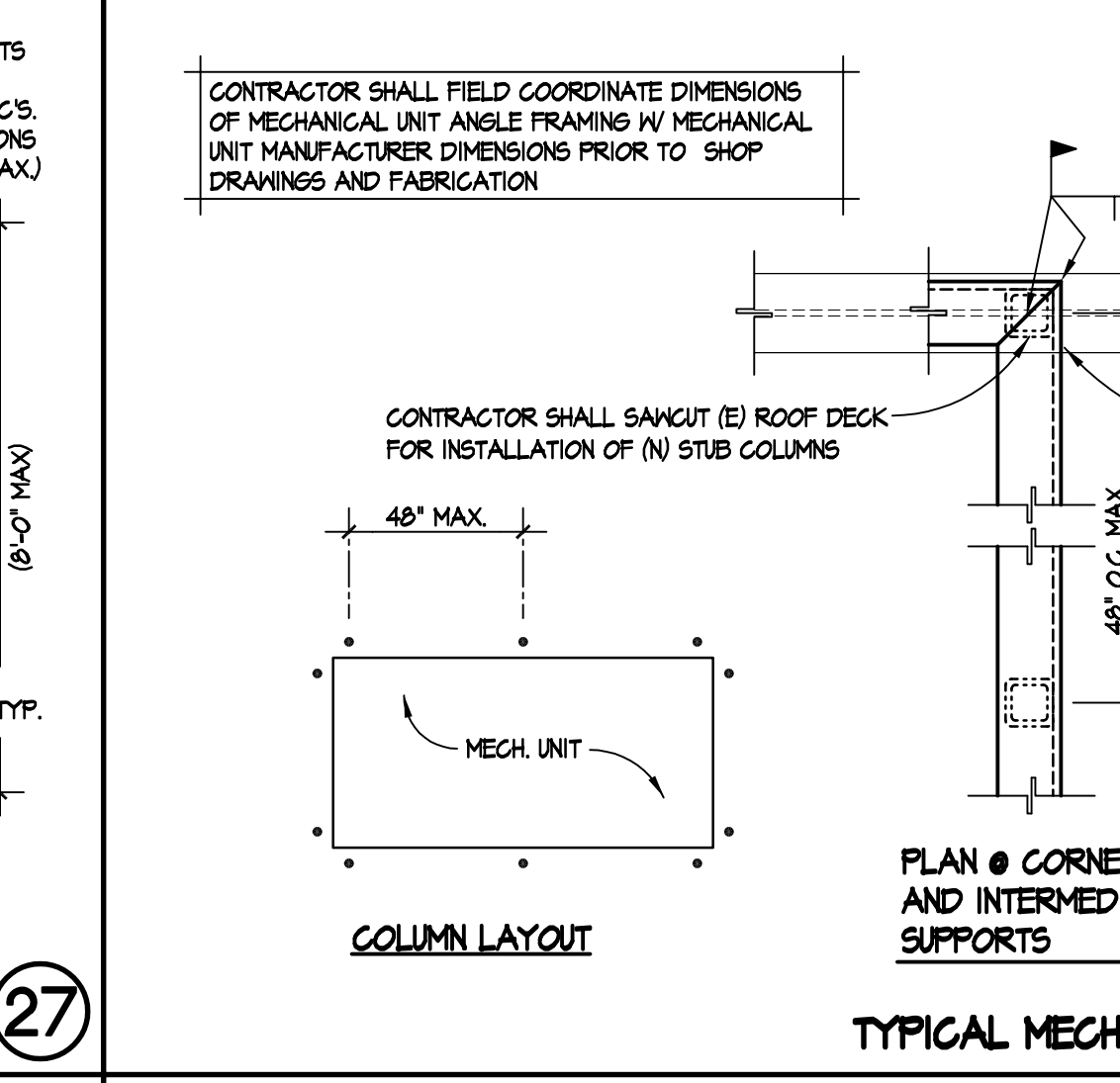
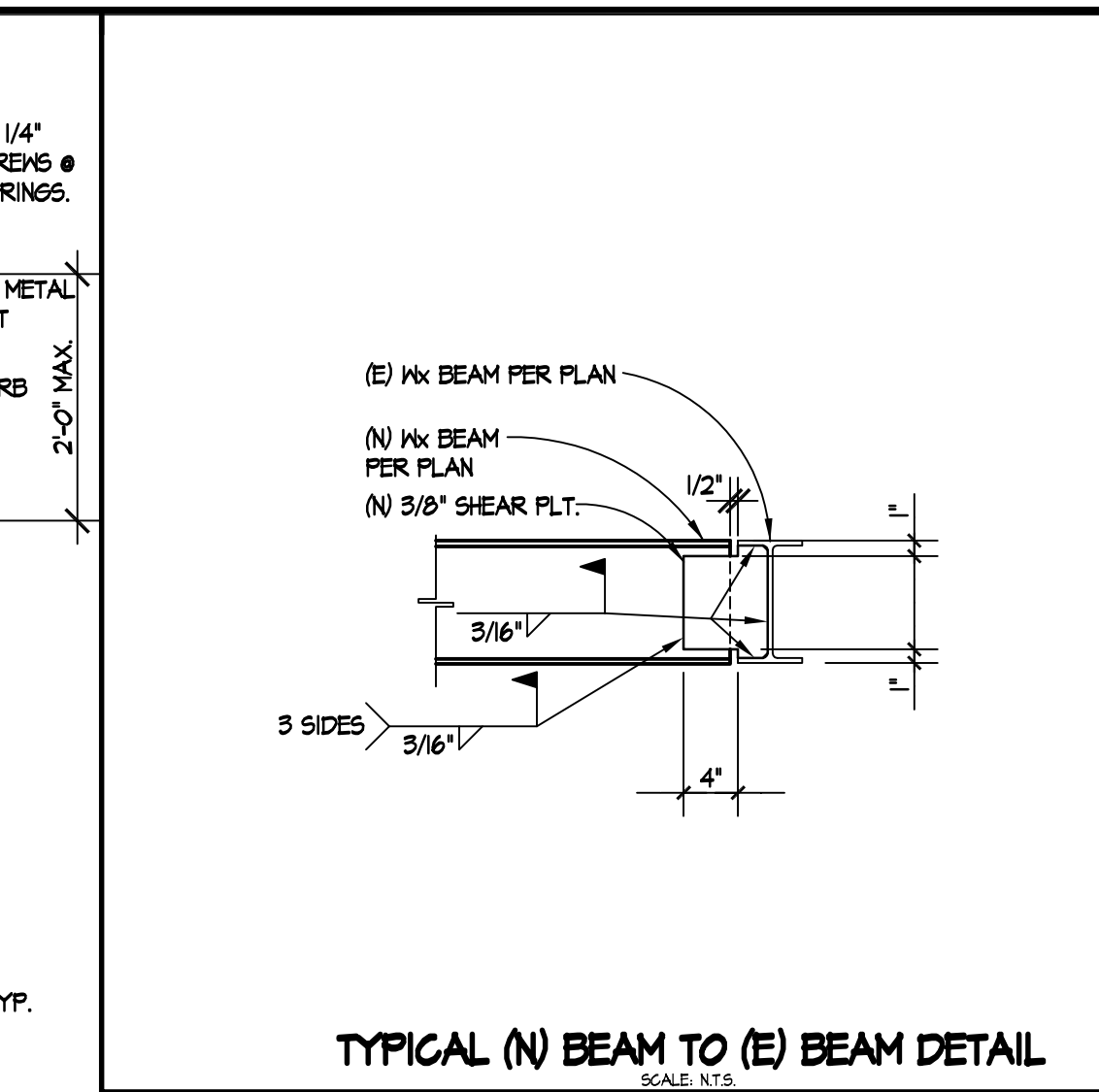
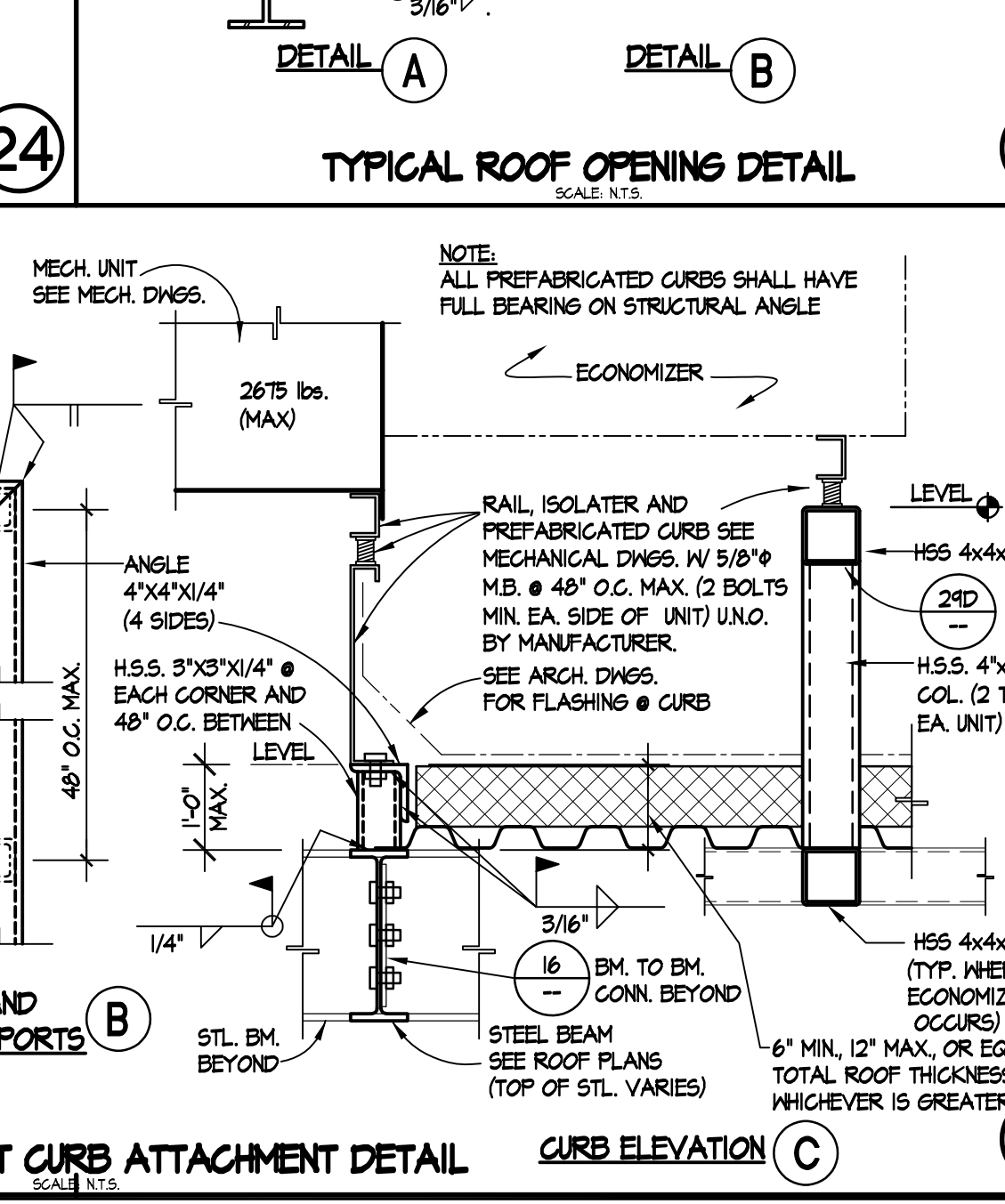
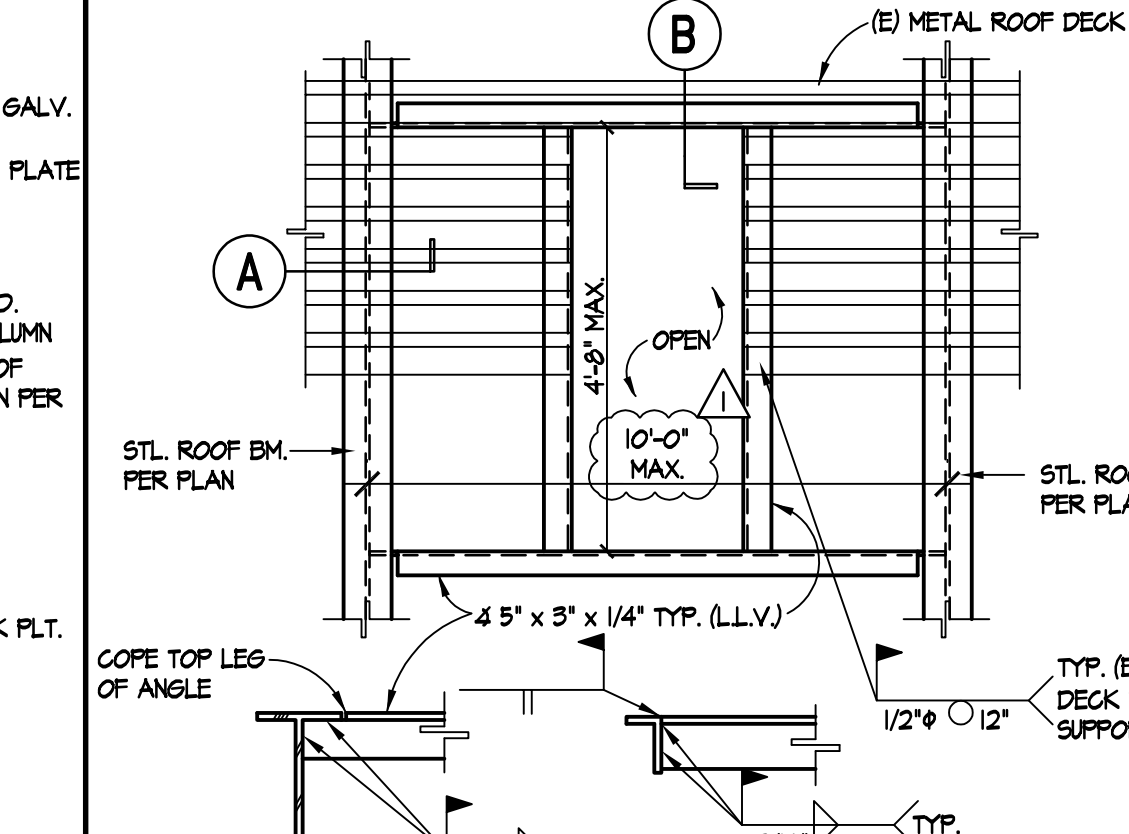
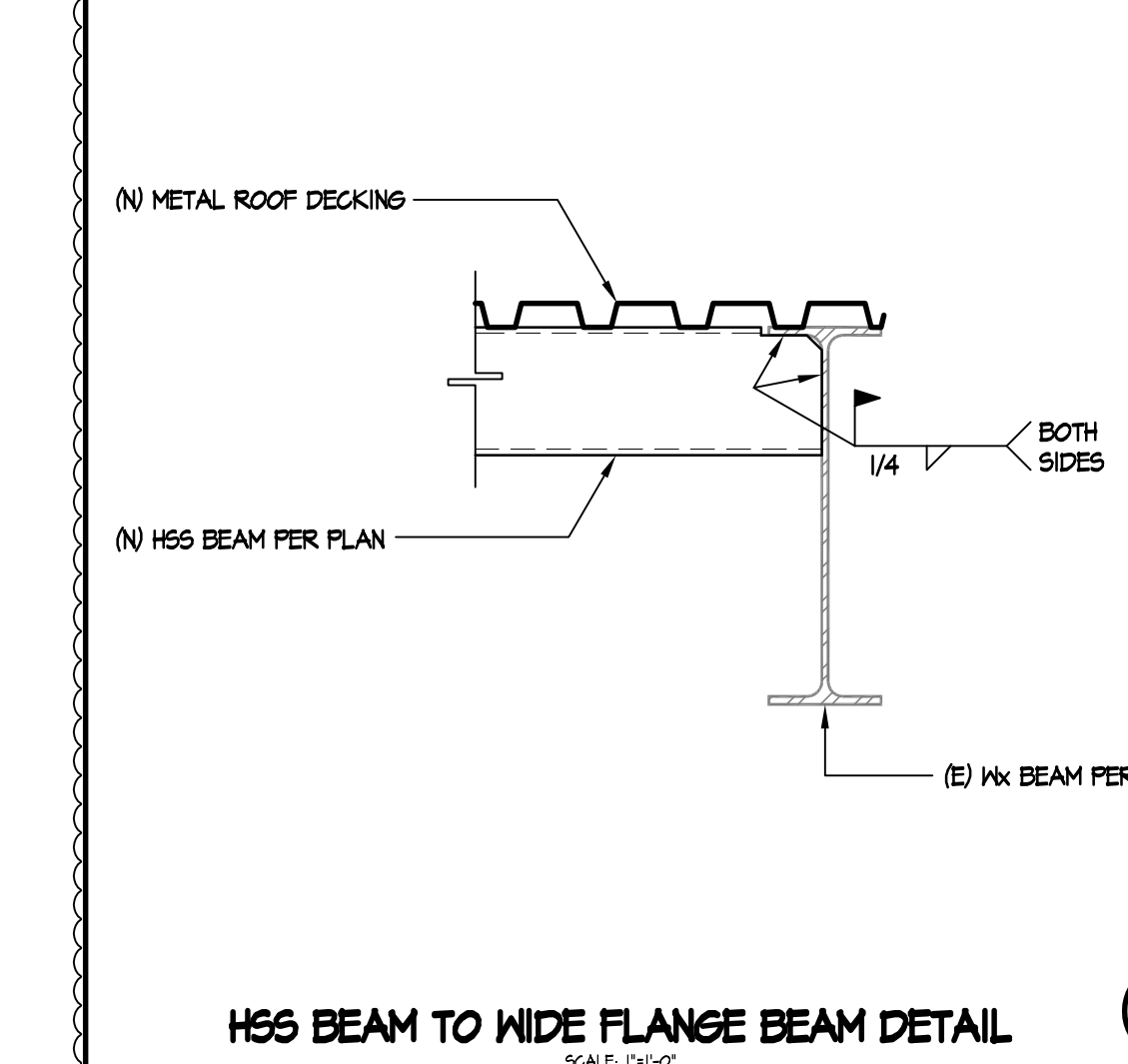
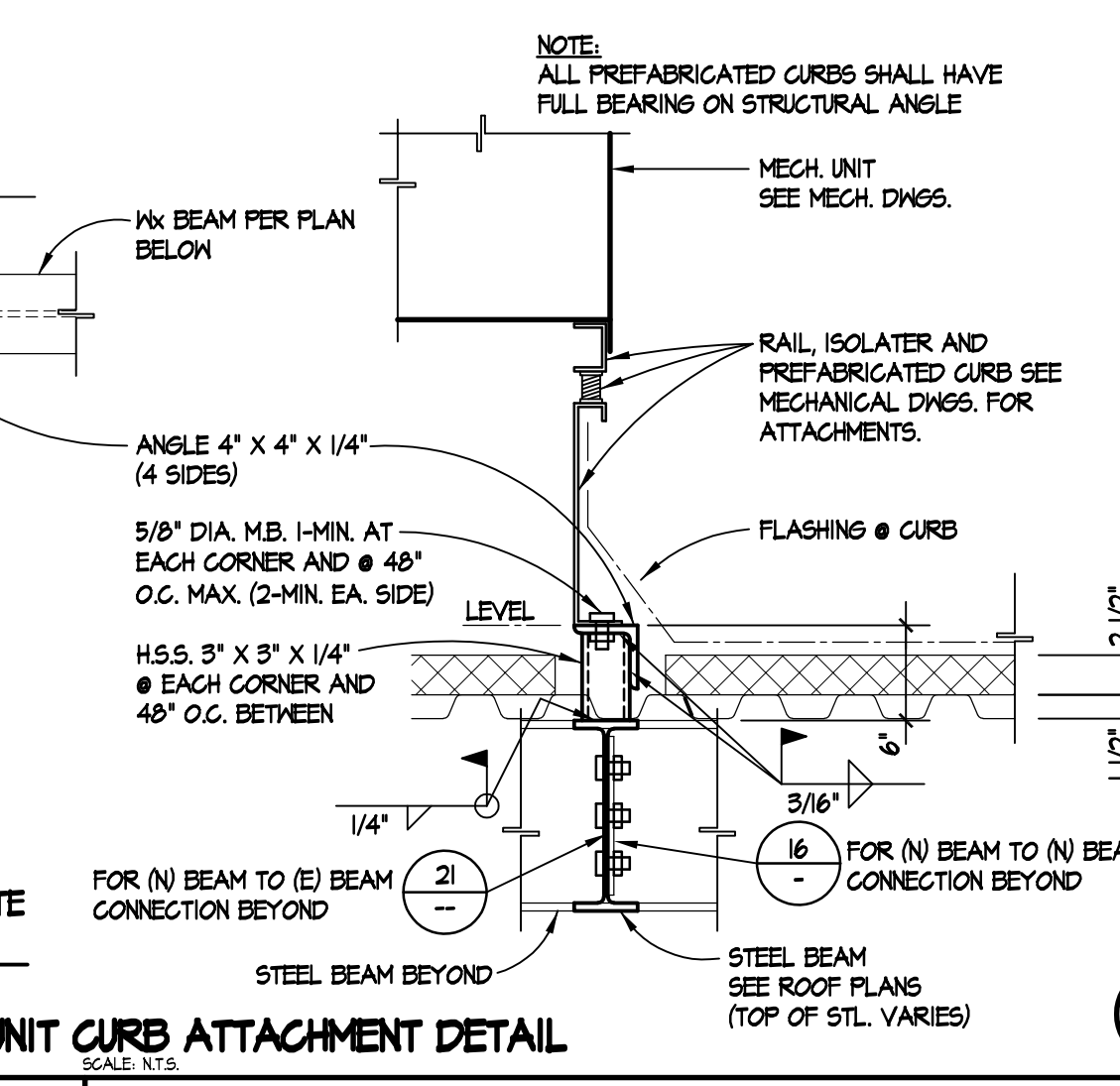
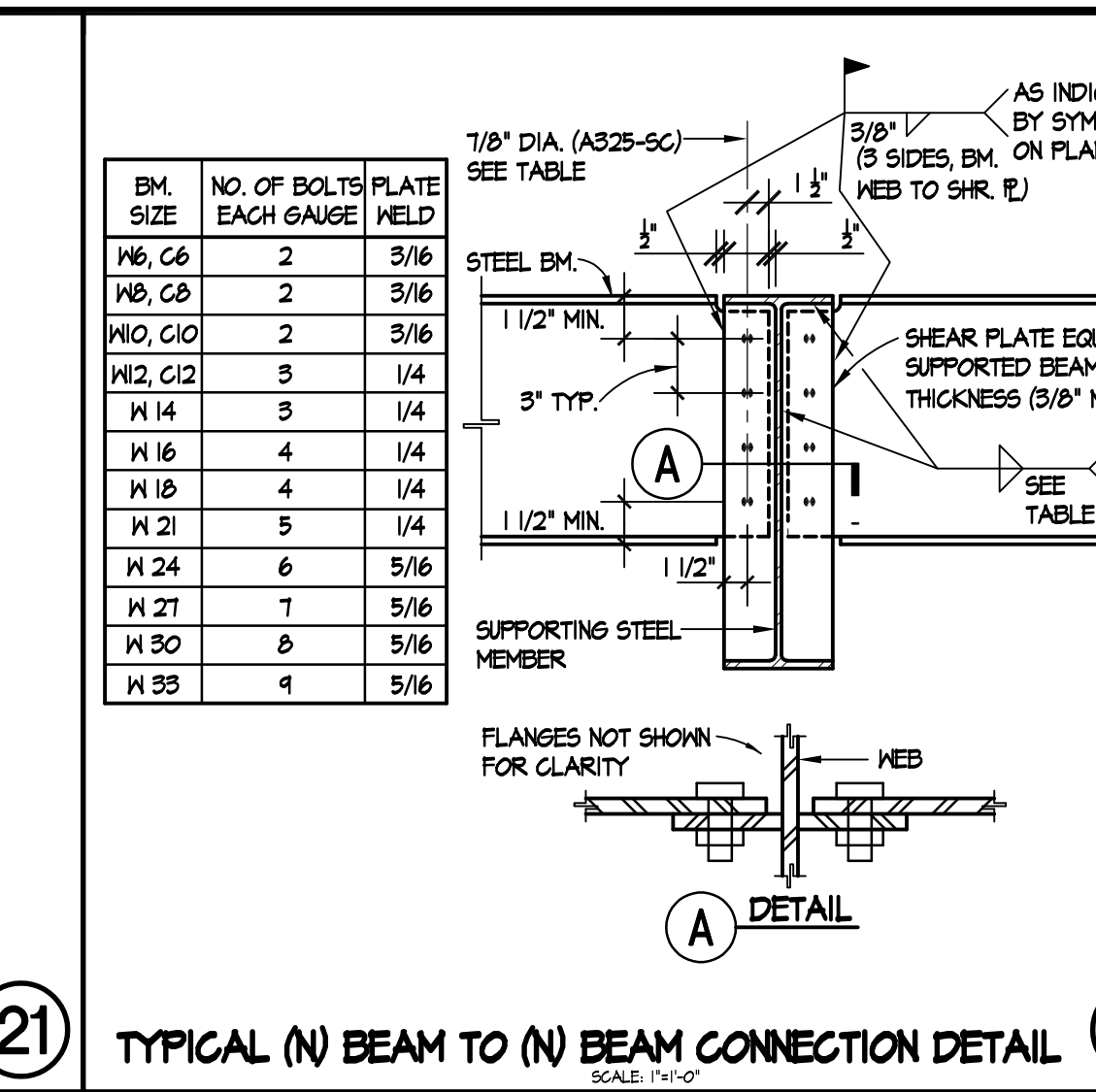
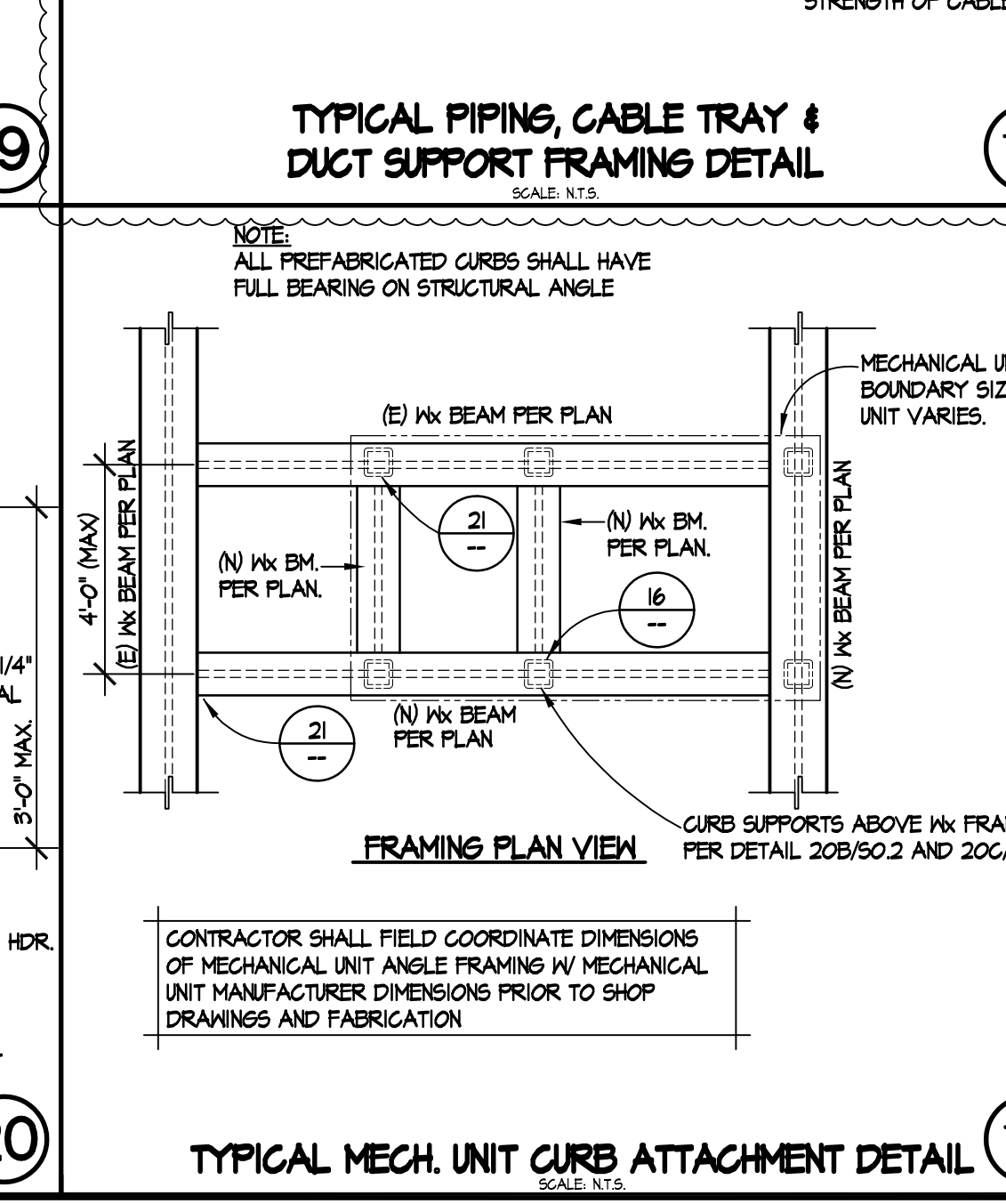
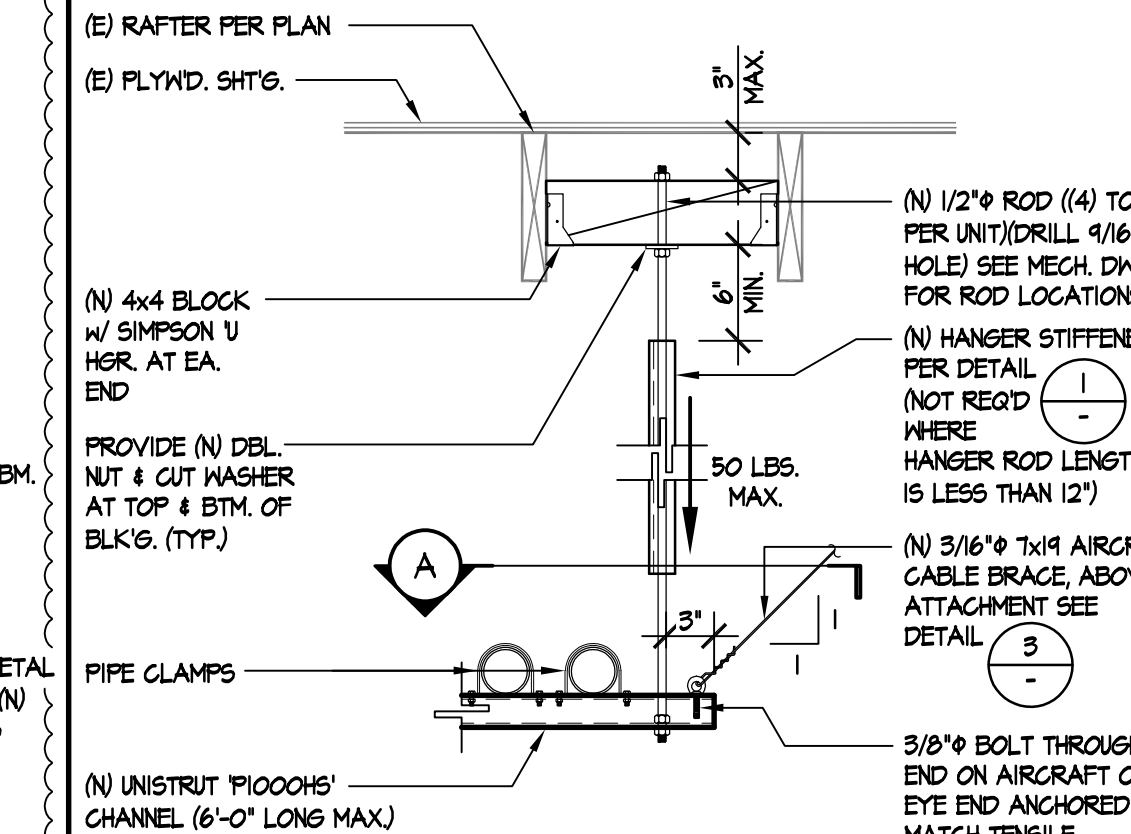
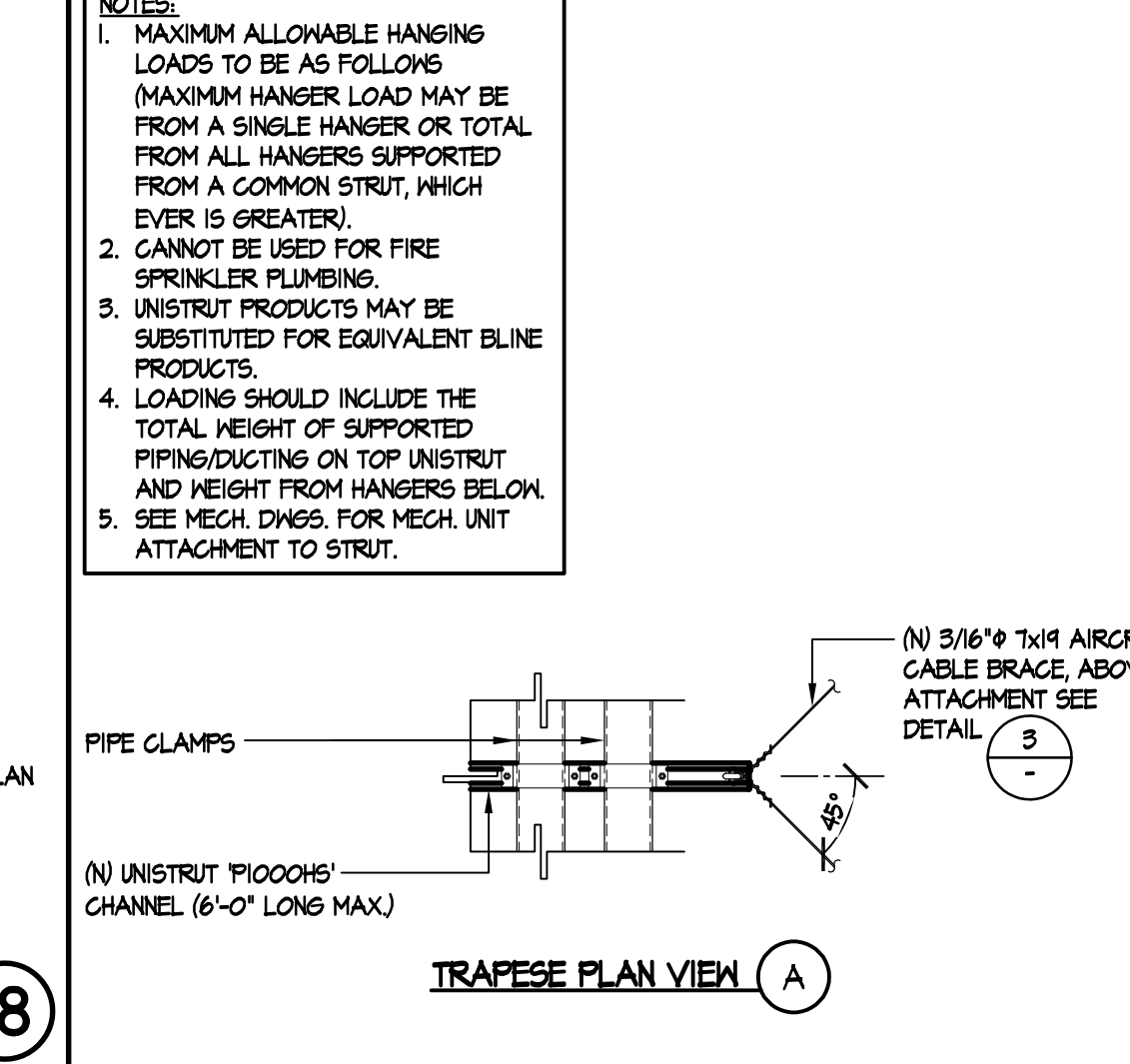
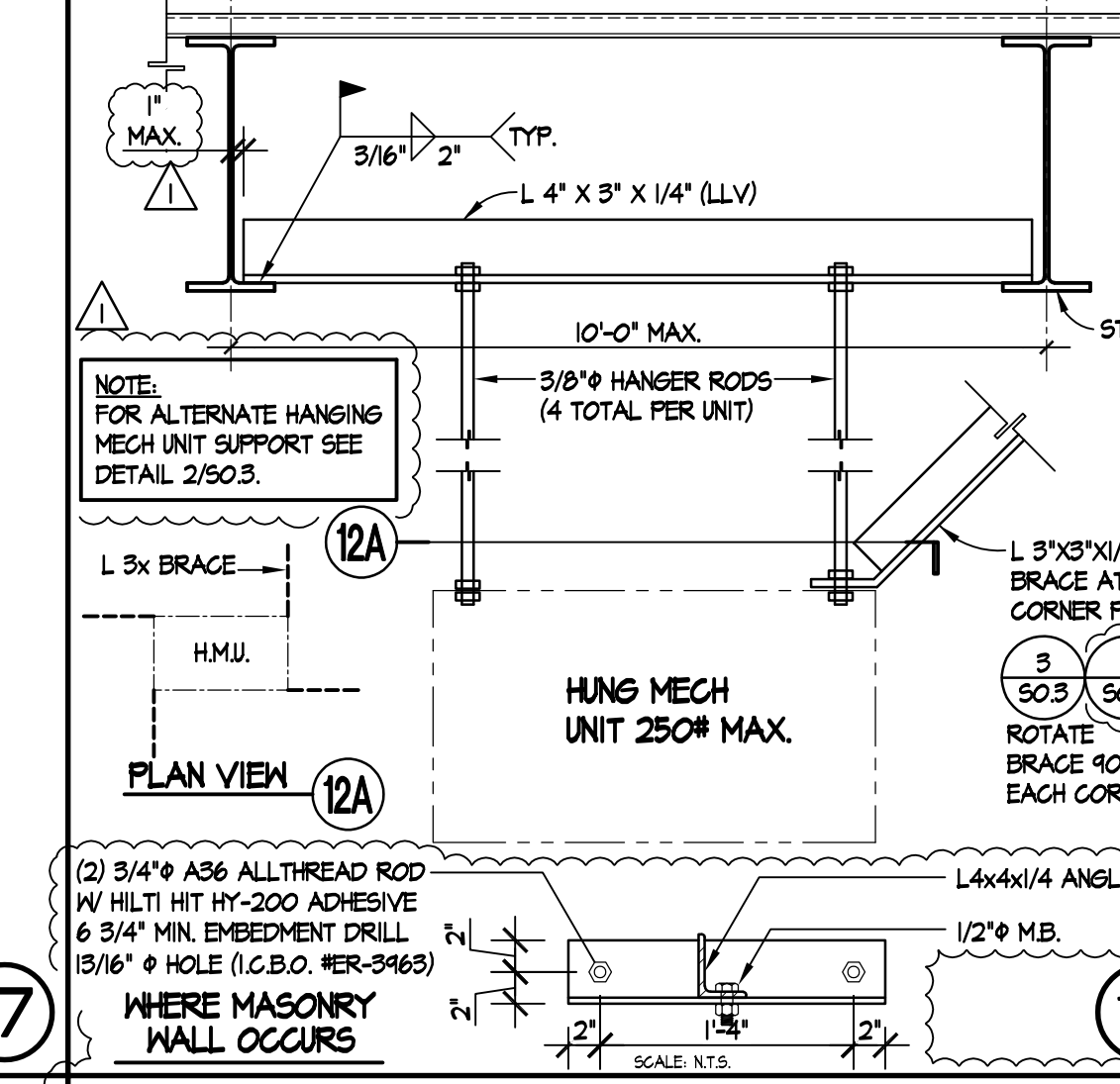
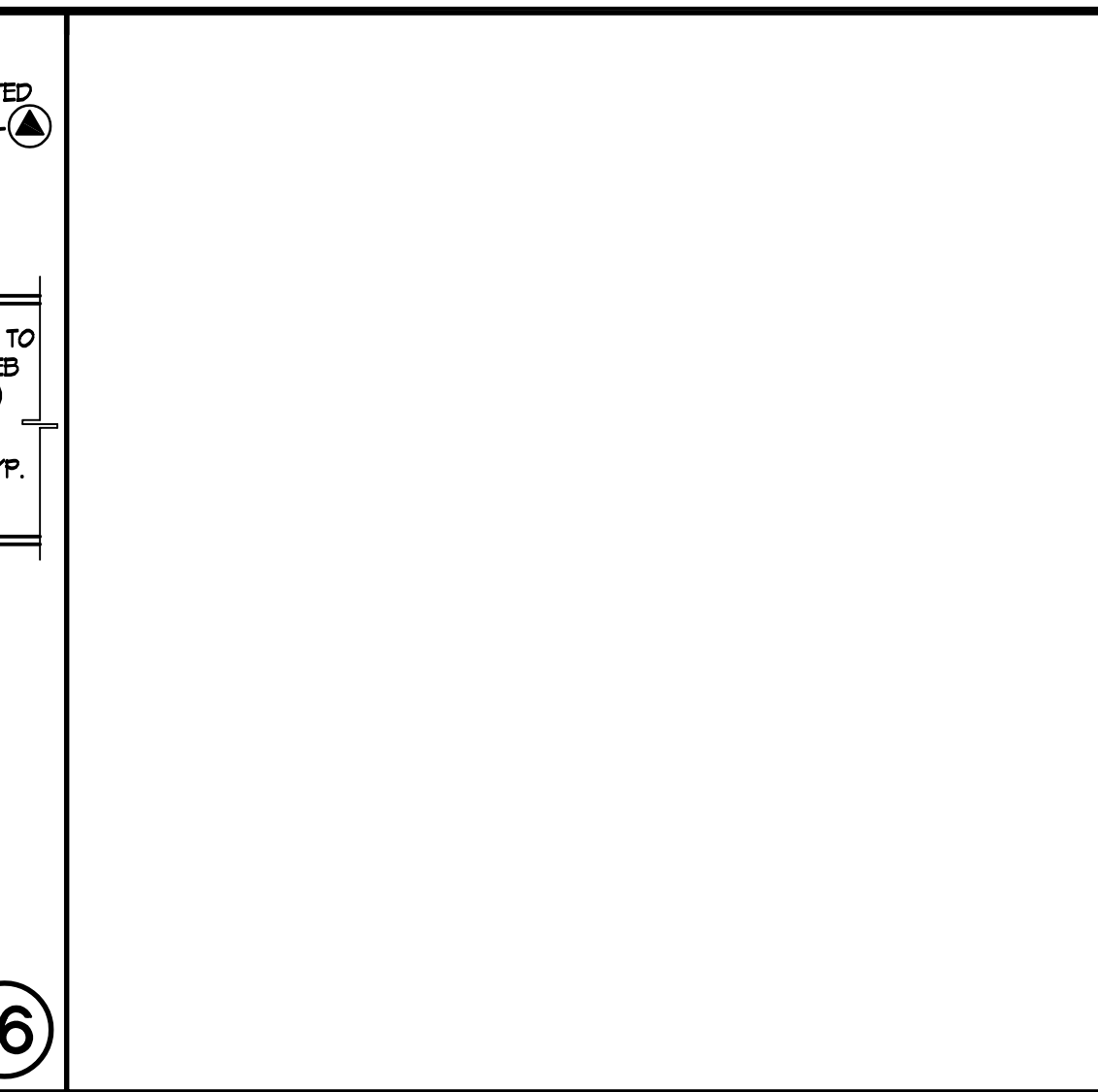
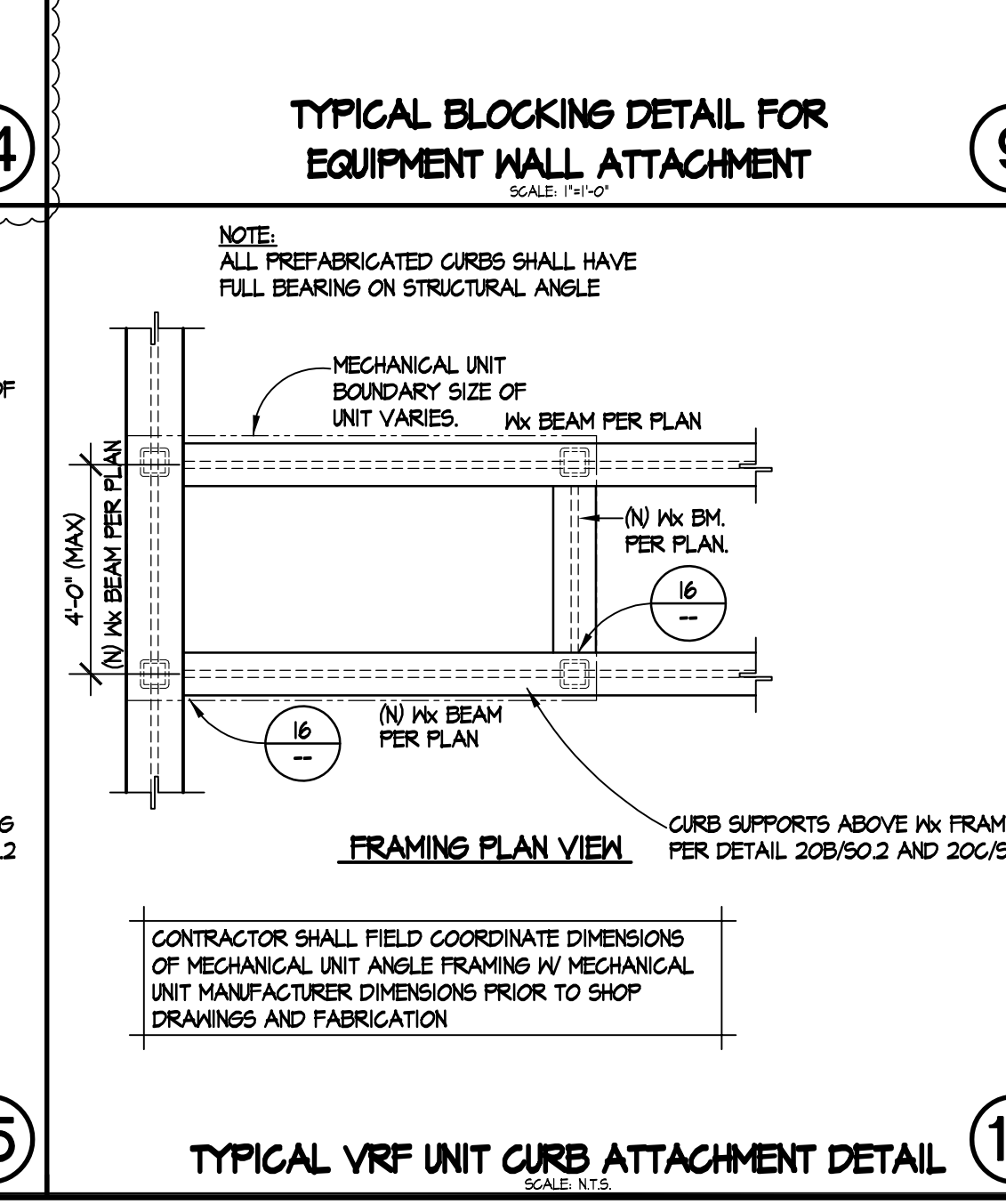
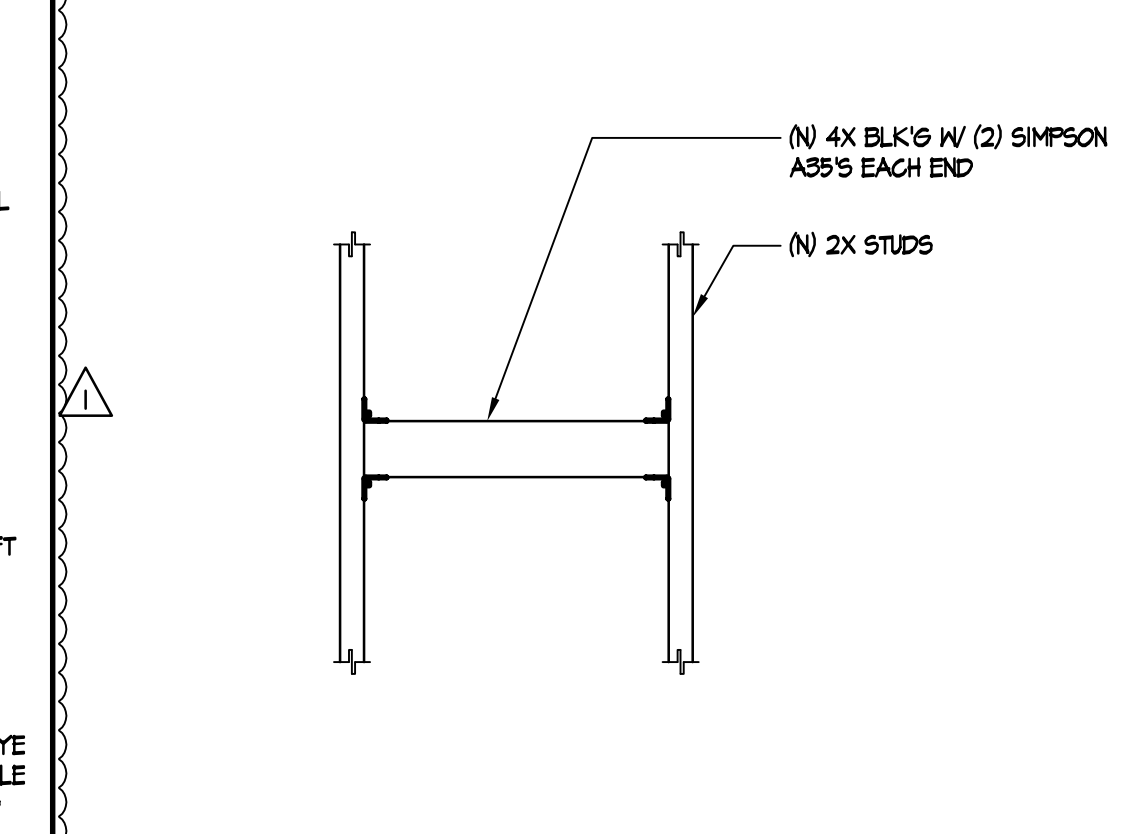
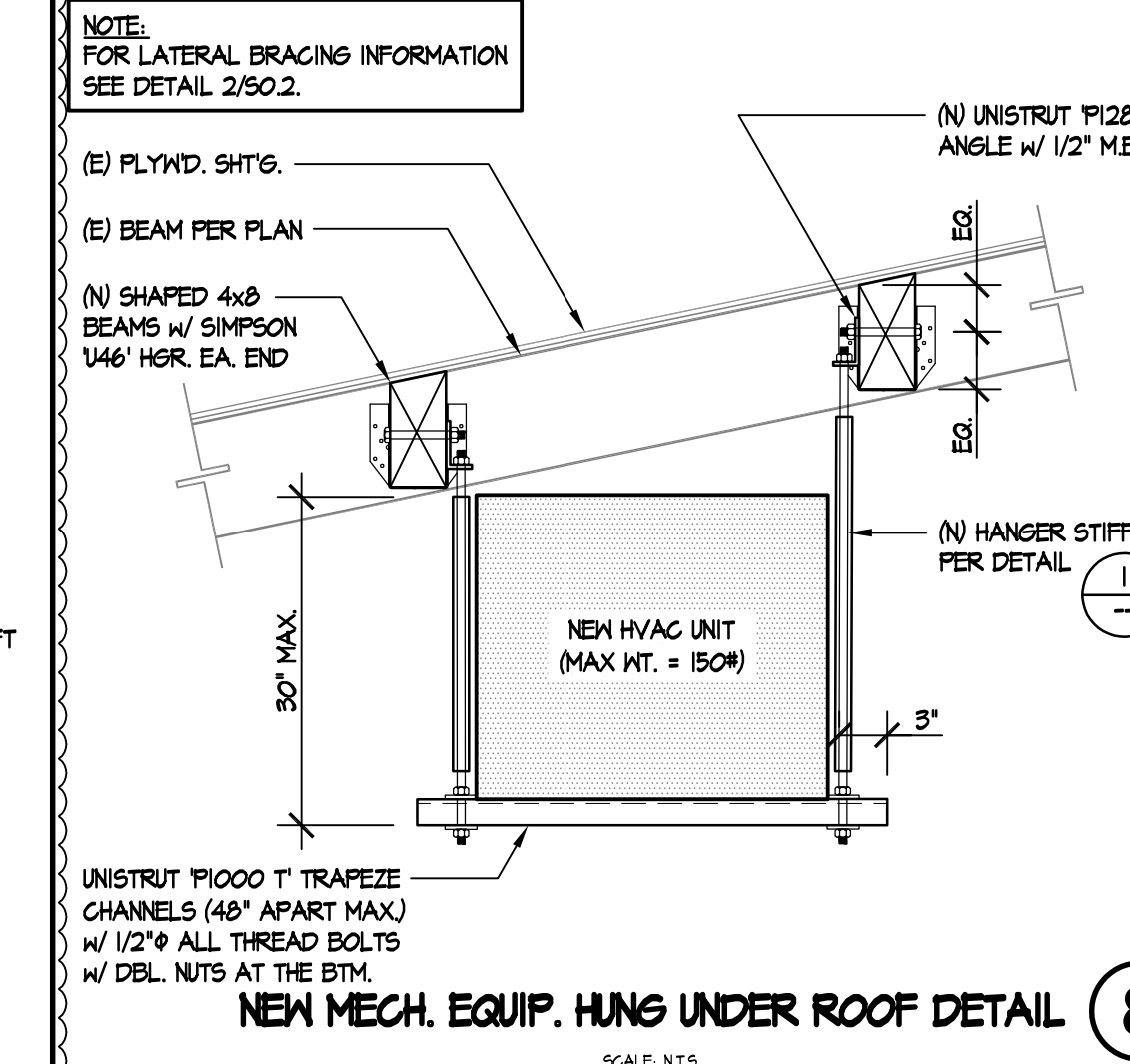
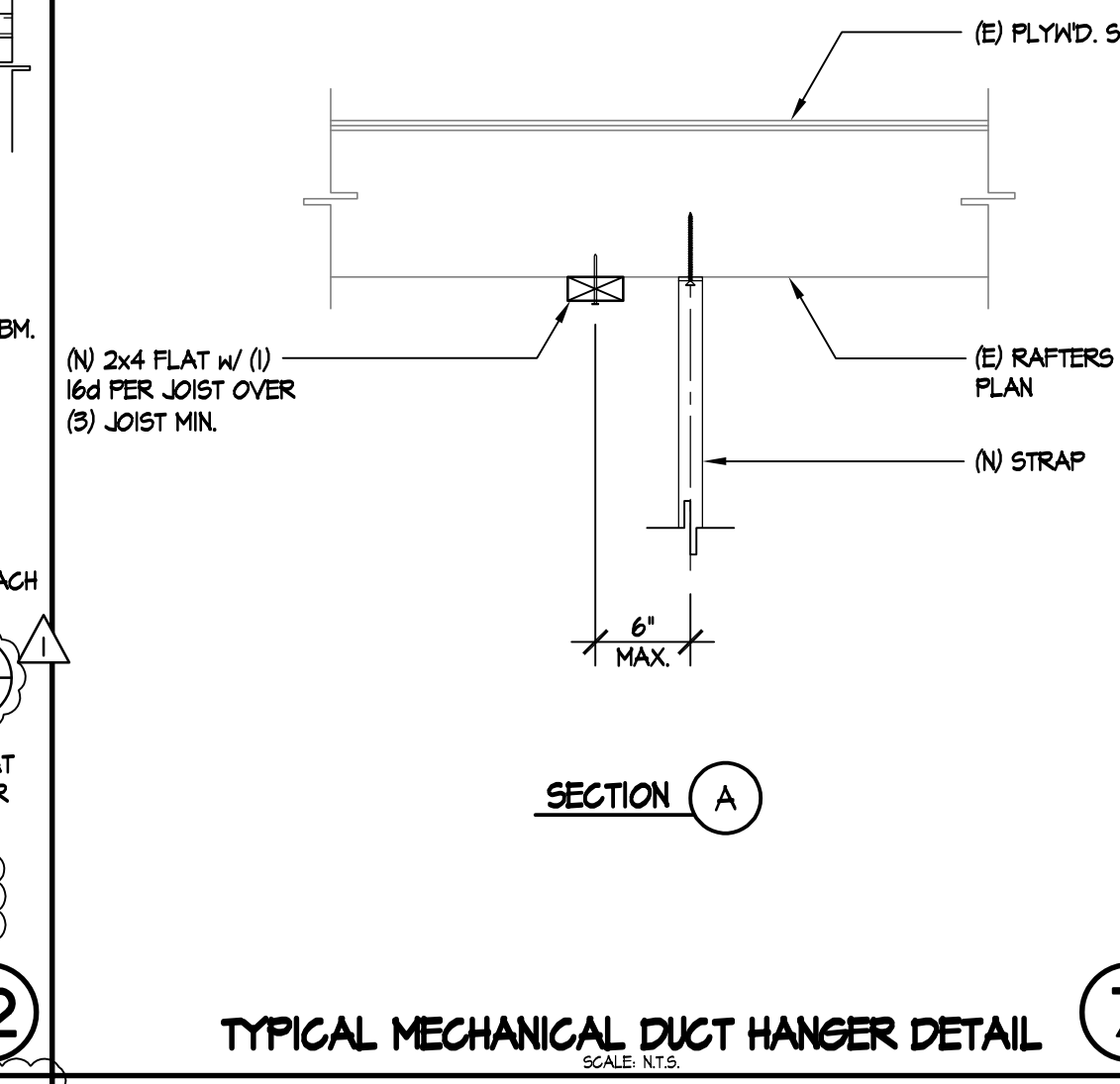
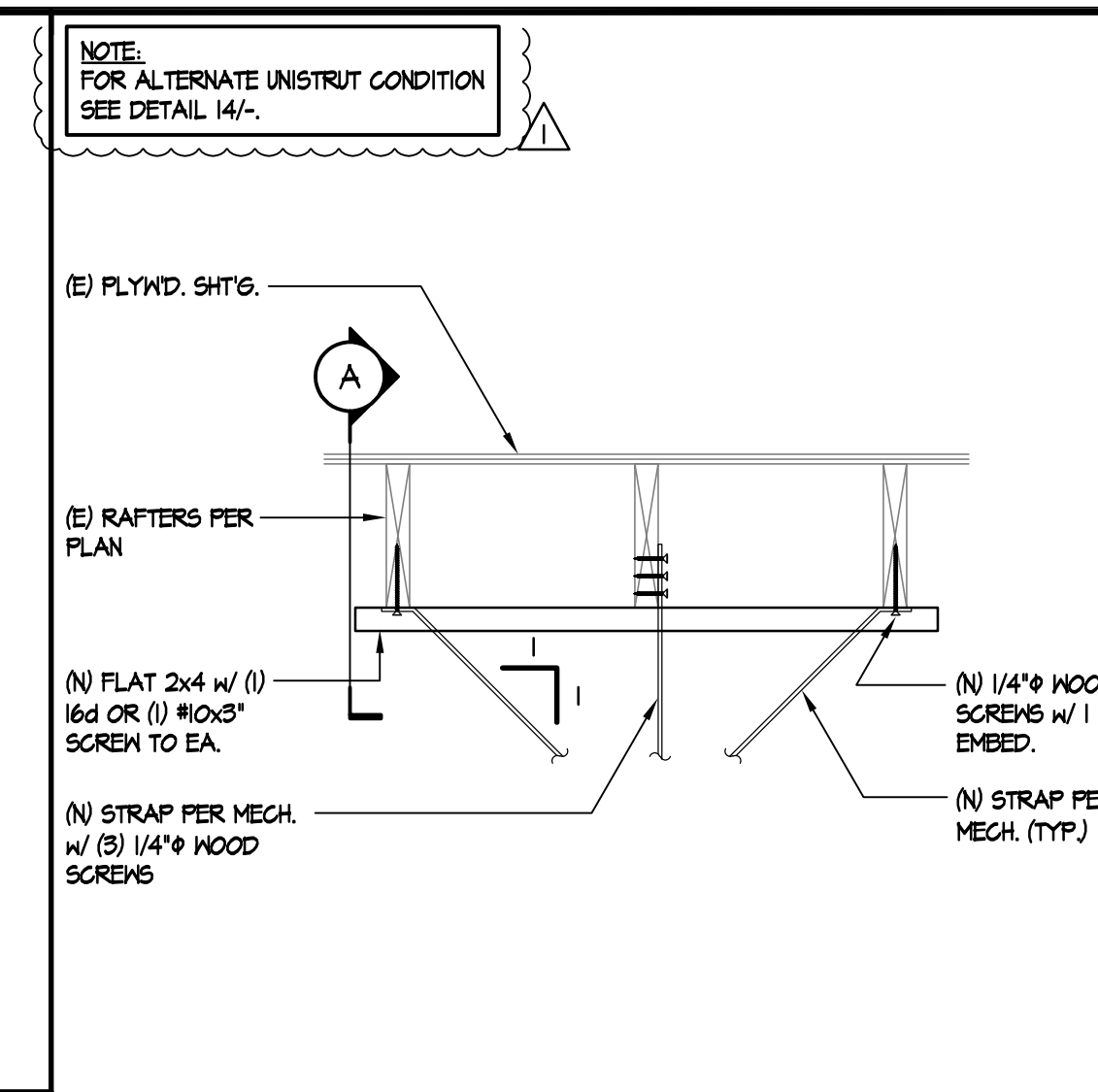
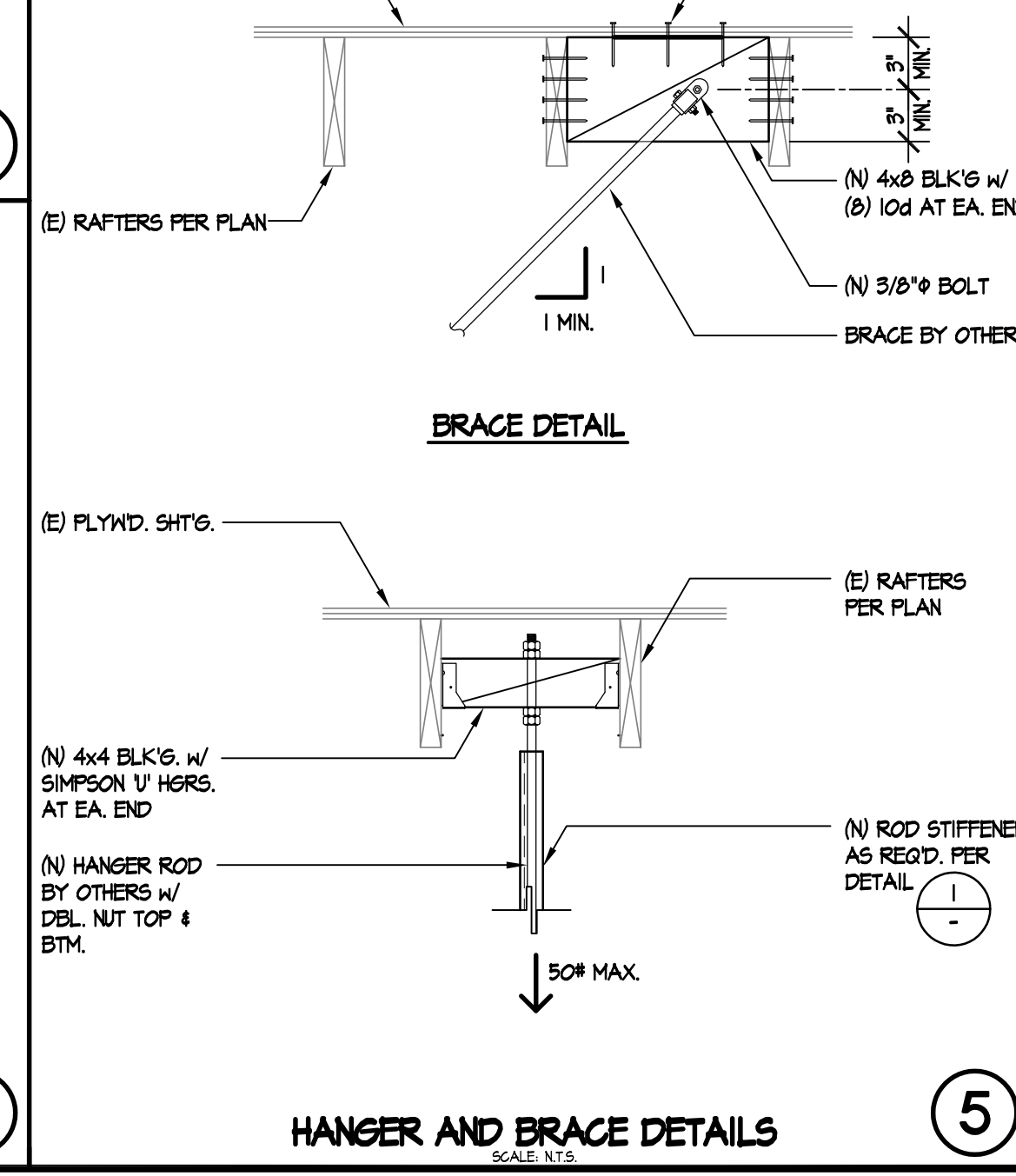
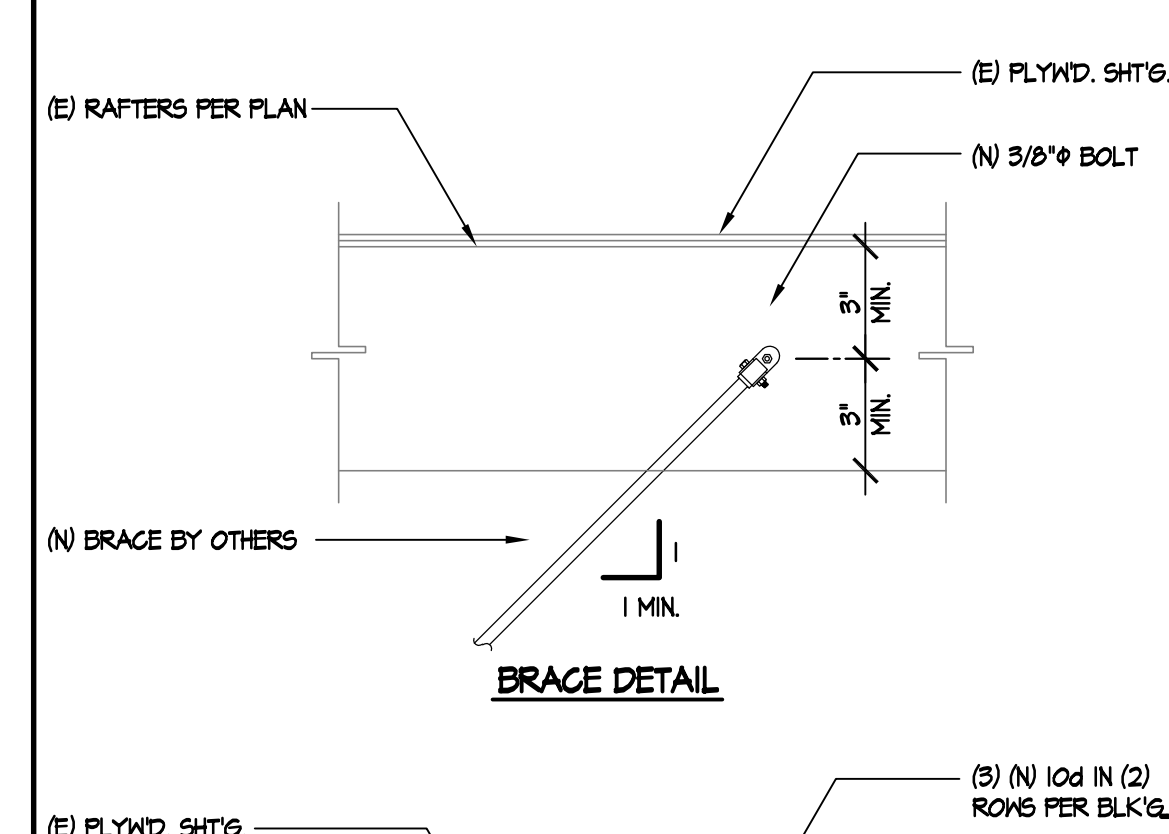
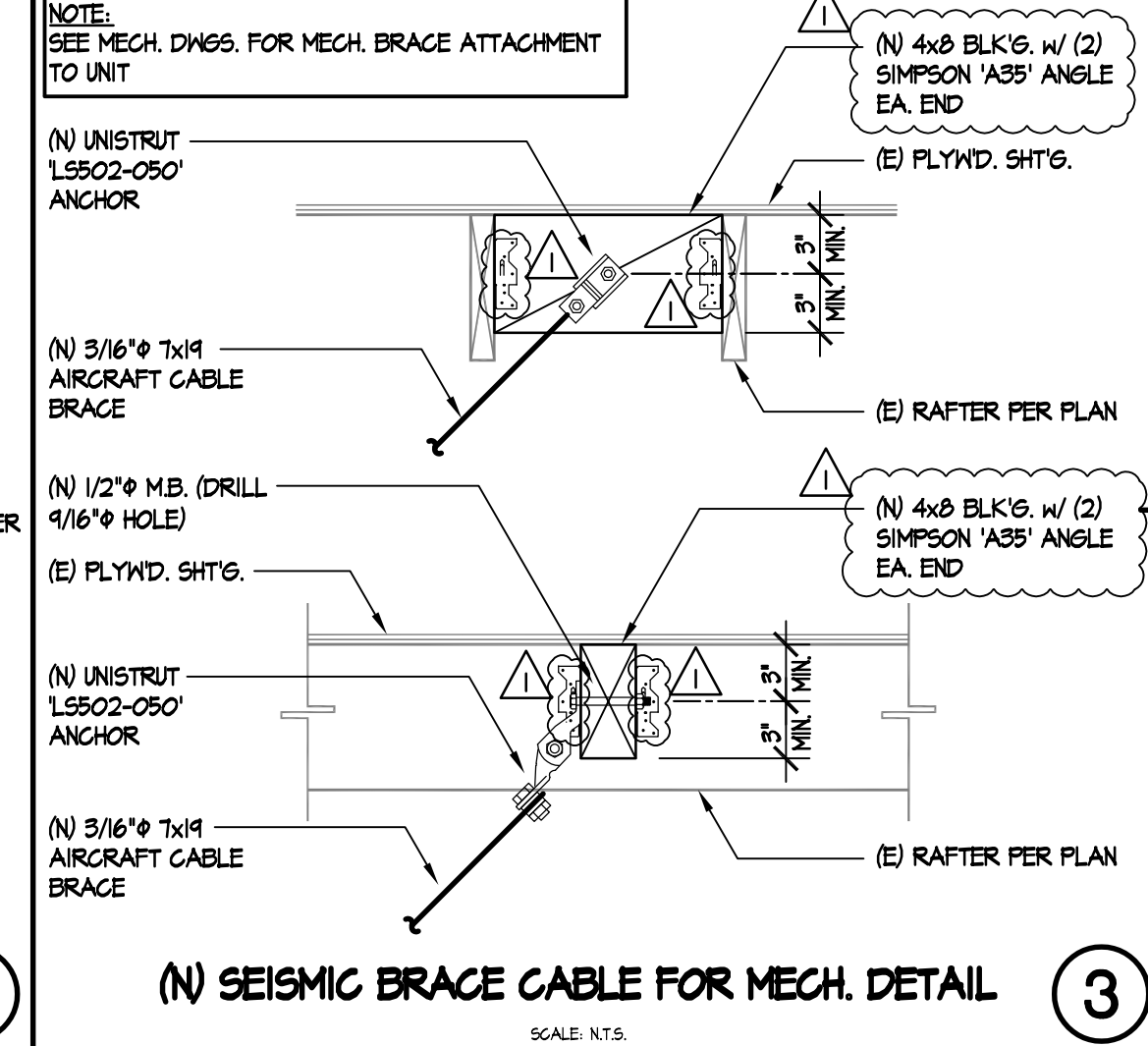
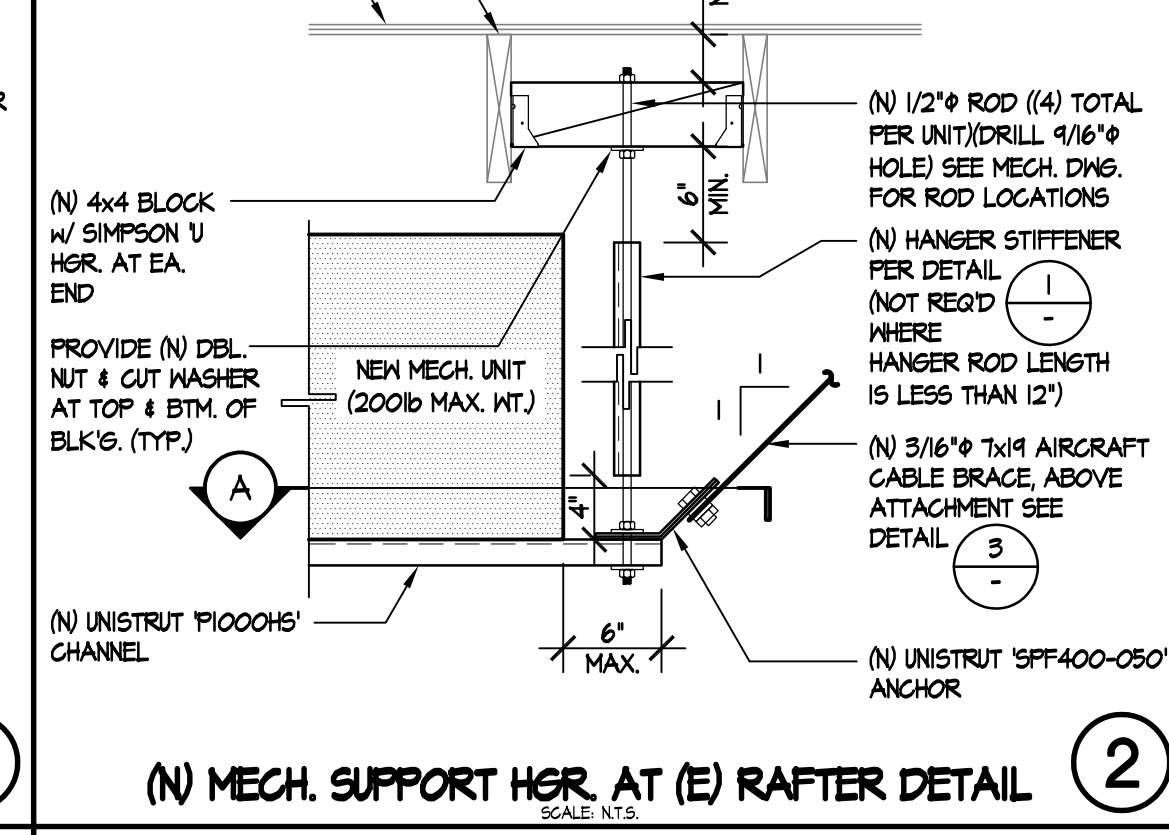
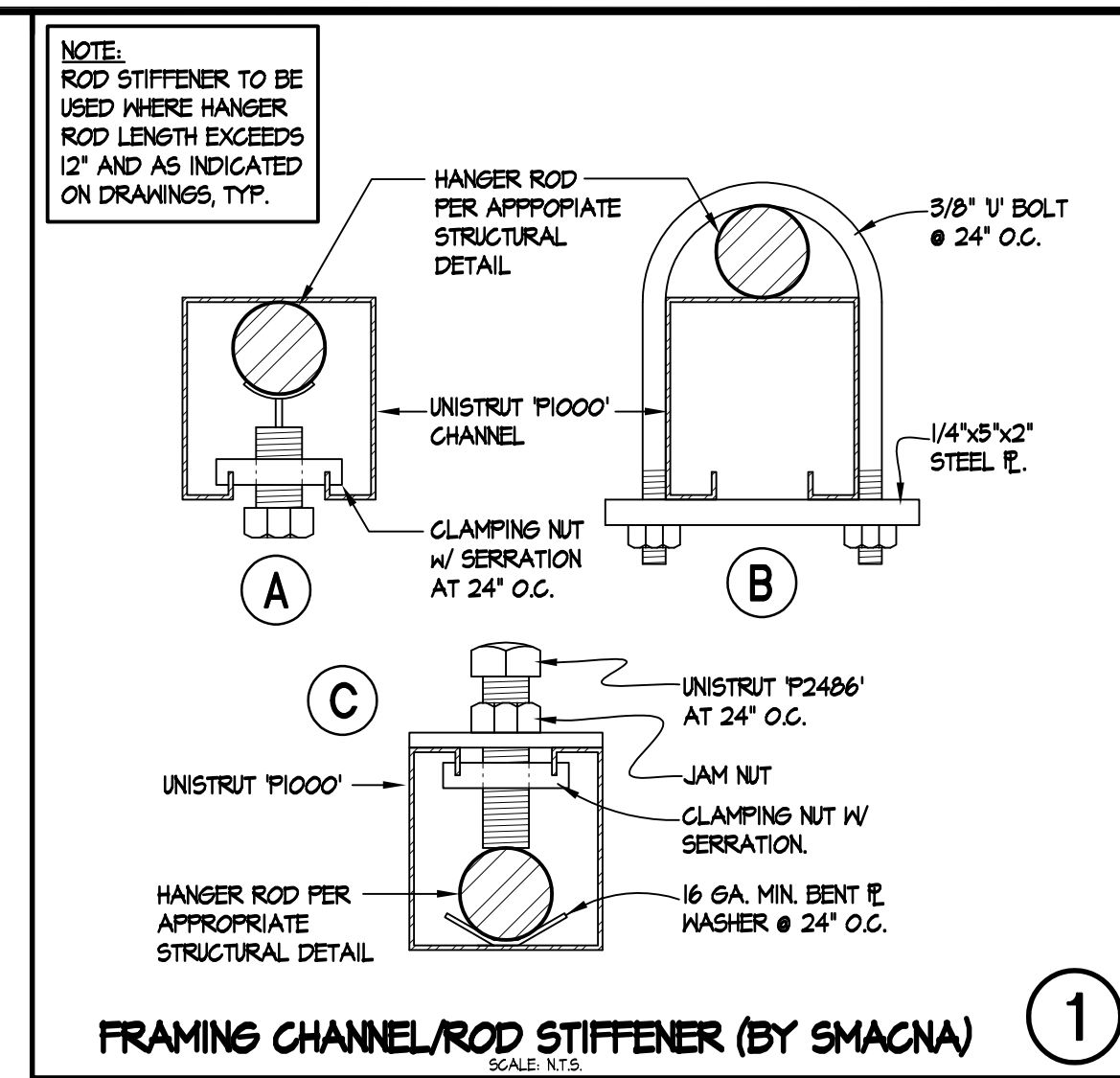
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Table with columns: PROJECT NUMBER. Row 1: PROJECT NUMBER: 20-19-06

DETAILS

DRAWING NUMBER: S0.2





SOUTHERN CALIFORNIA
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OXNARD HIGH SCHOOL
OXNARD UNION HIGH SCHOOL DISTRICT
SCHOOL SITE (805) 278-2907
3400 W GONZALES RD,
OXNARD, CA 93036

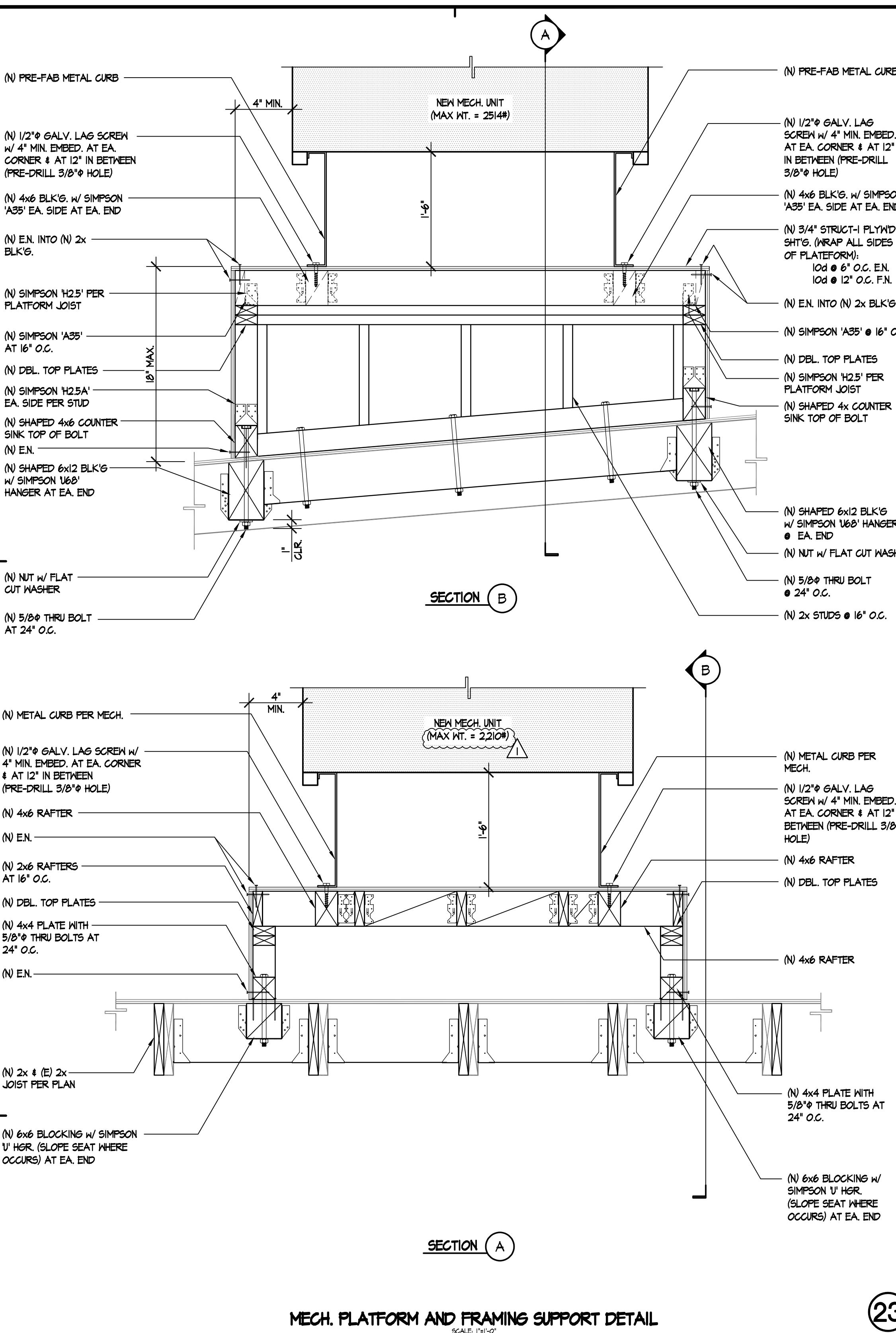


CONSULTANT
ENGINEERING, INC.
4344 LATHAM ST., SUITE 100
ROVERING, CA 92601-1775
P: 951.684.6200
F: 951.684.6229
JOB NO.: 20-1906

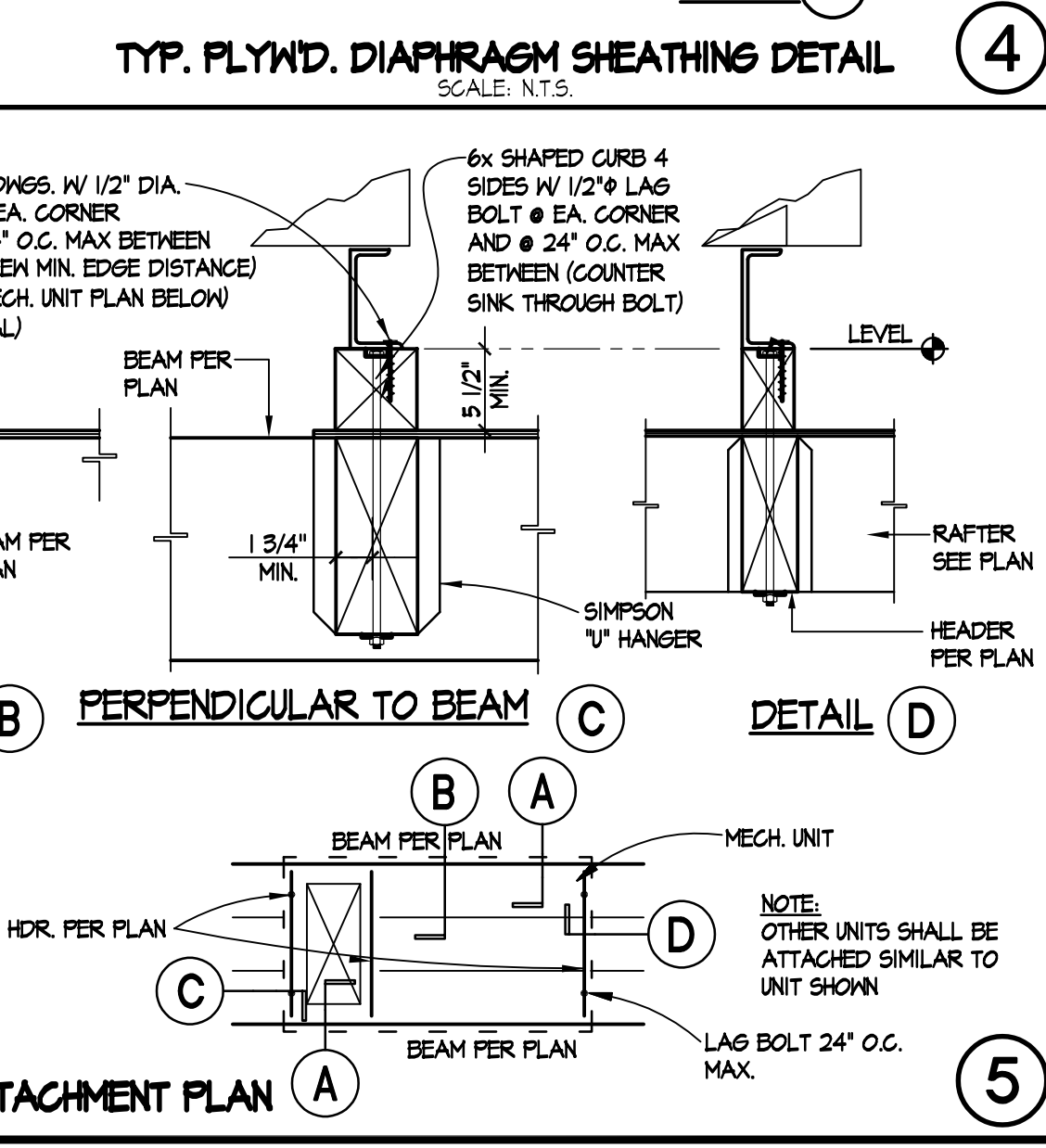
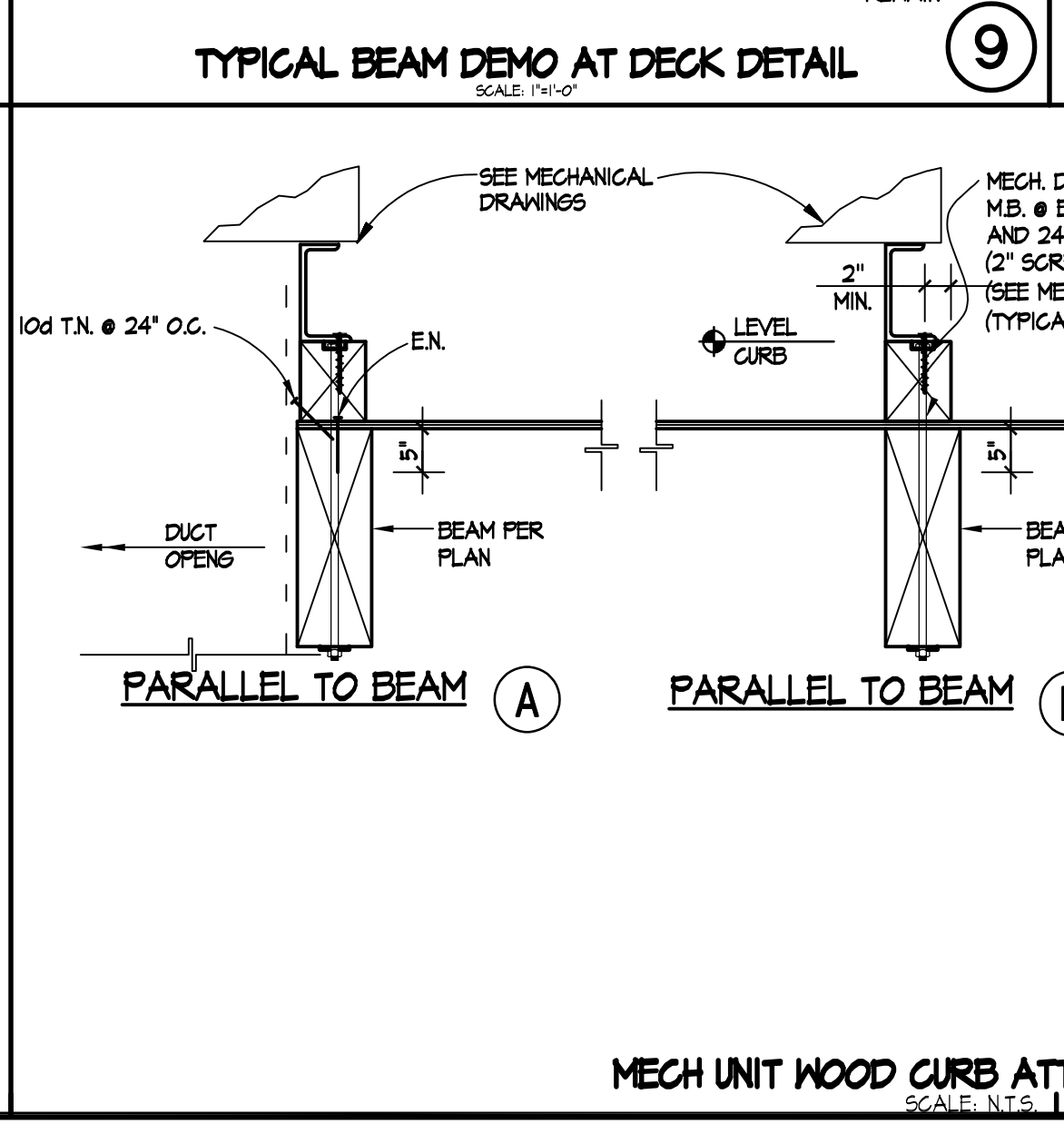
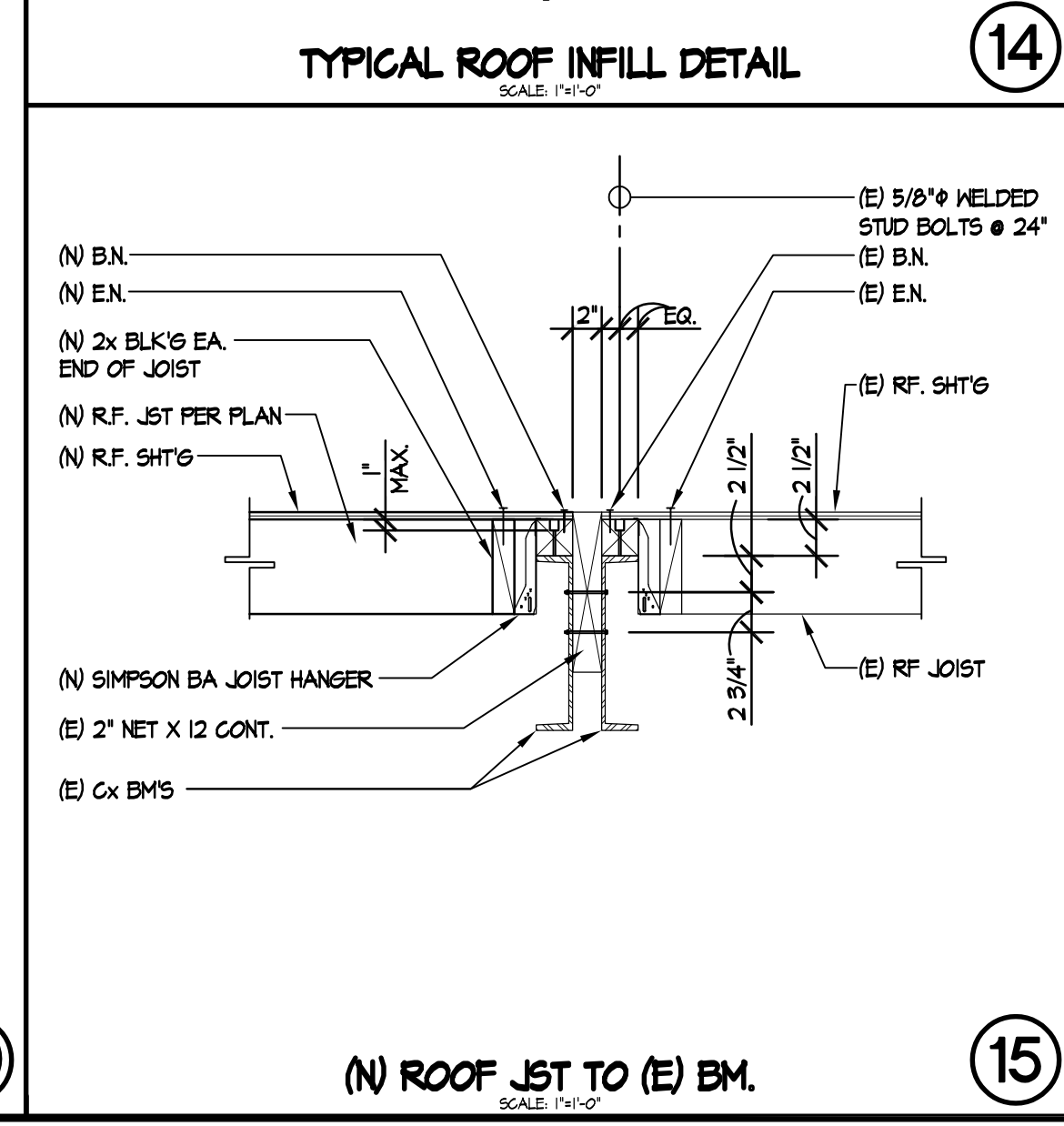
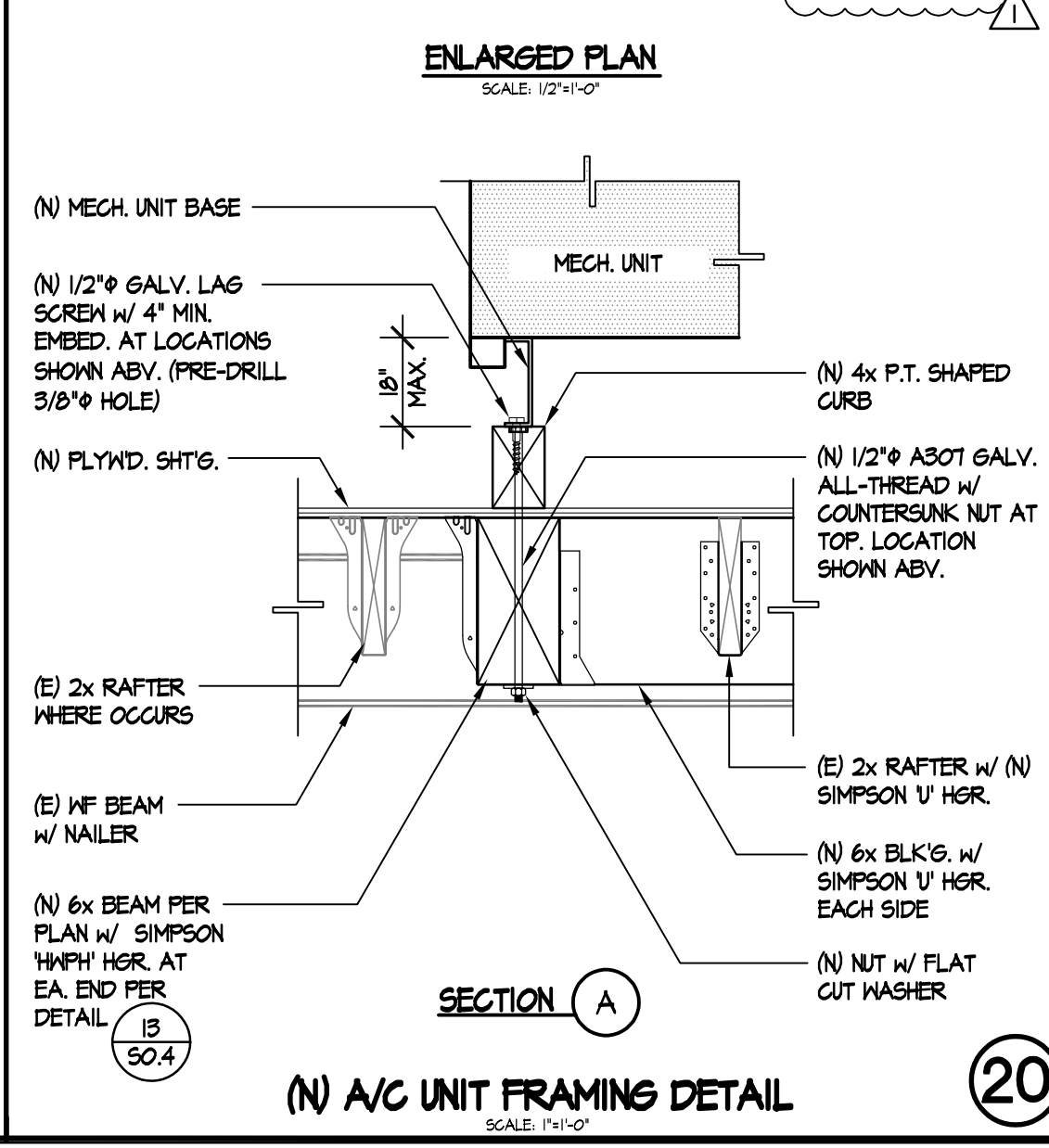
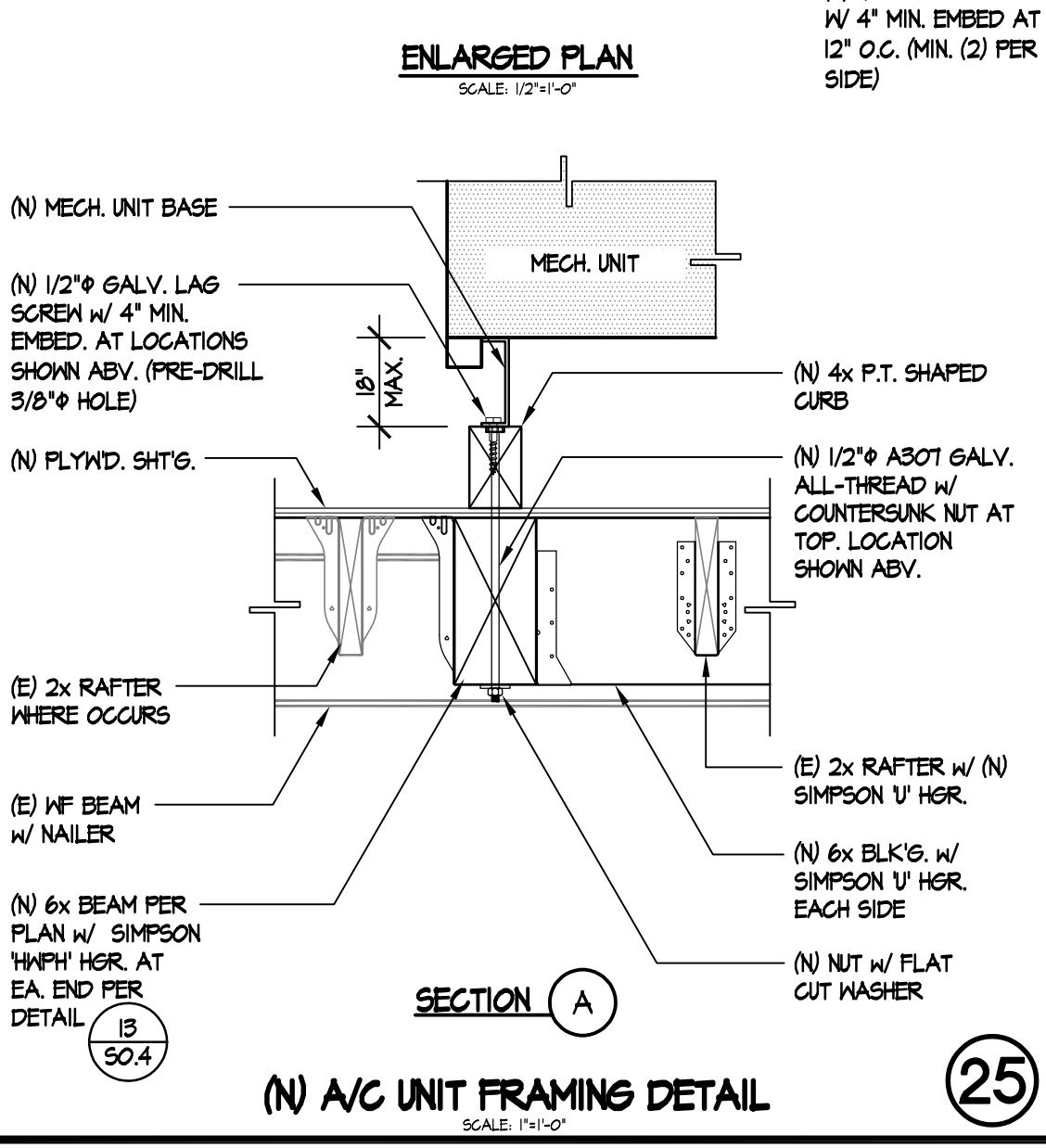
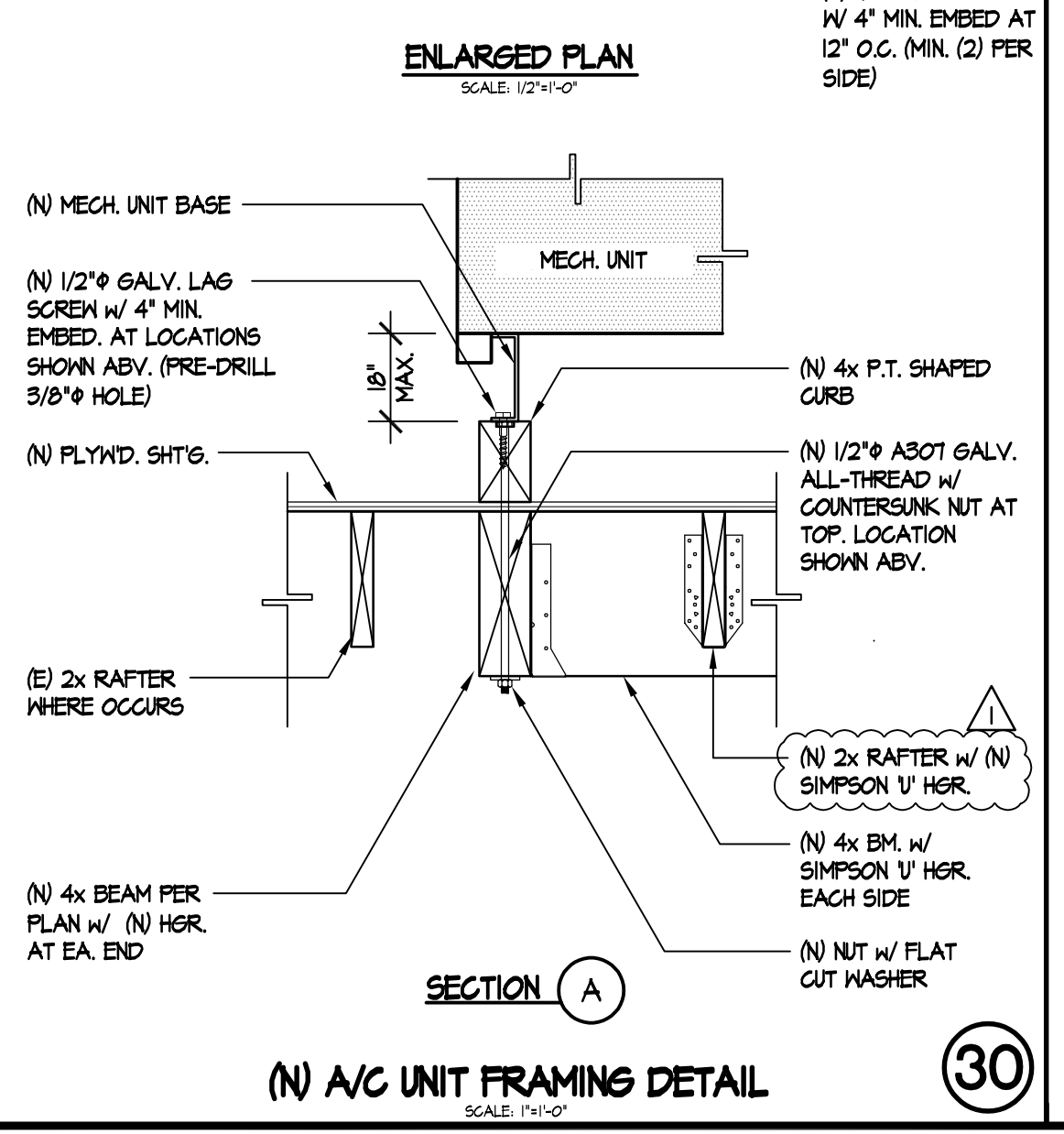
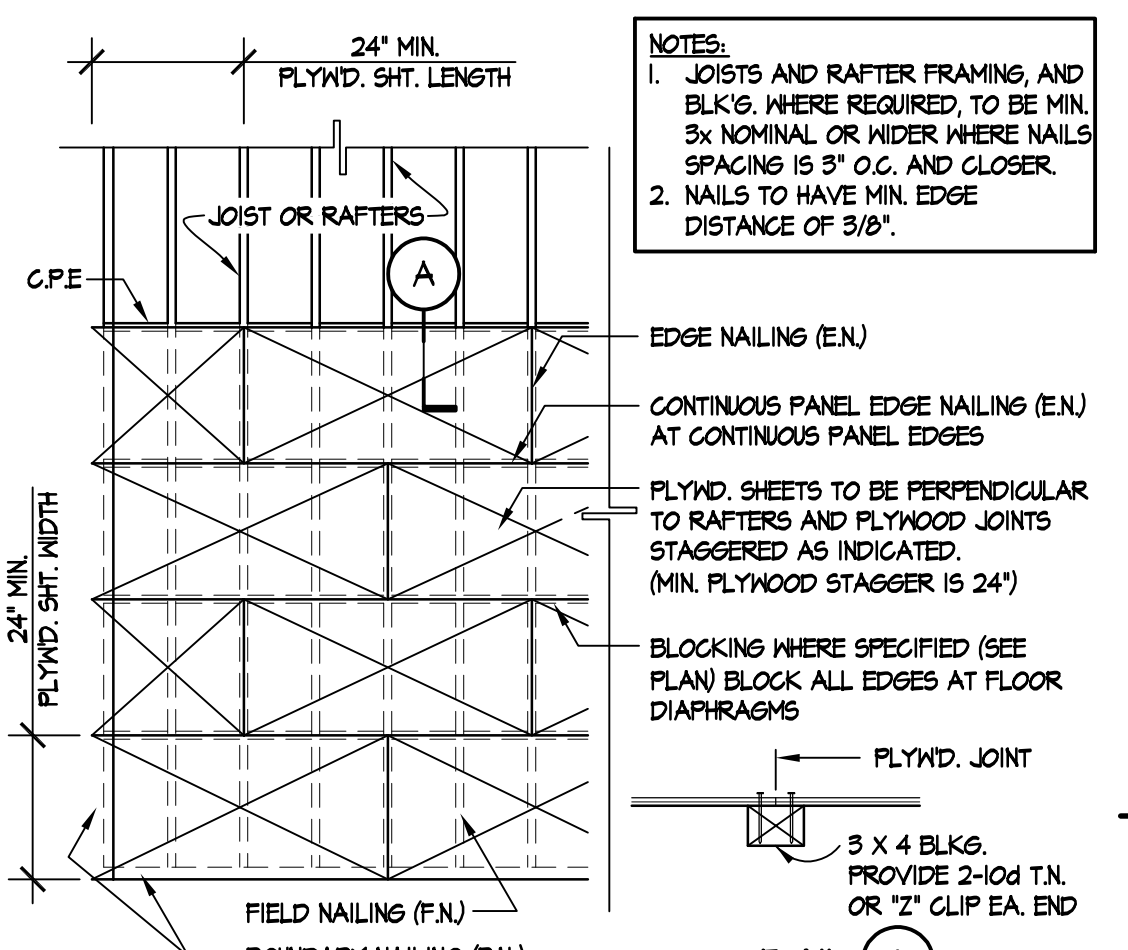
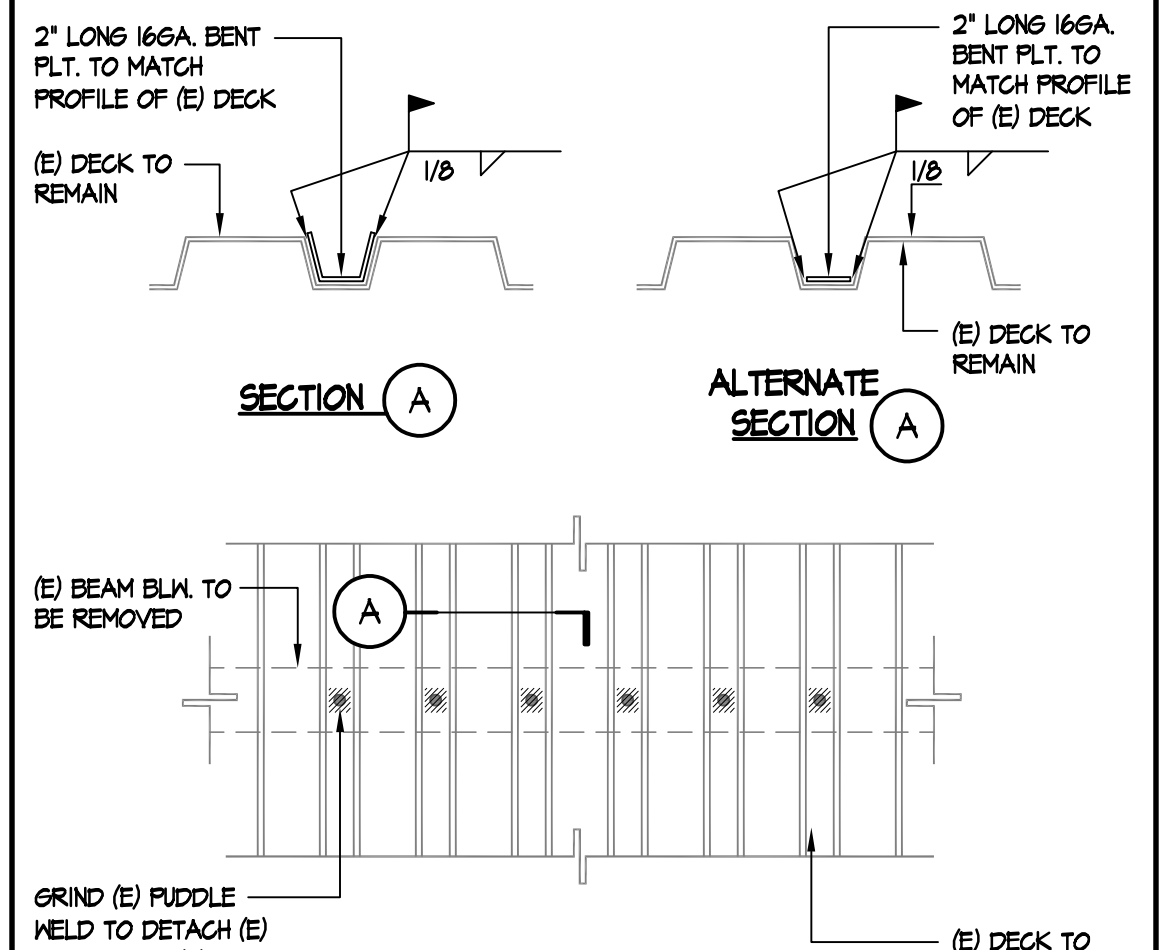
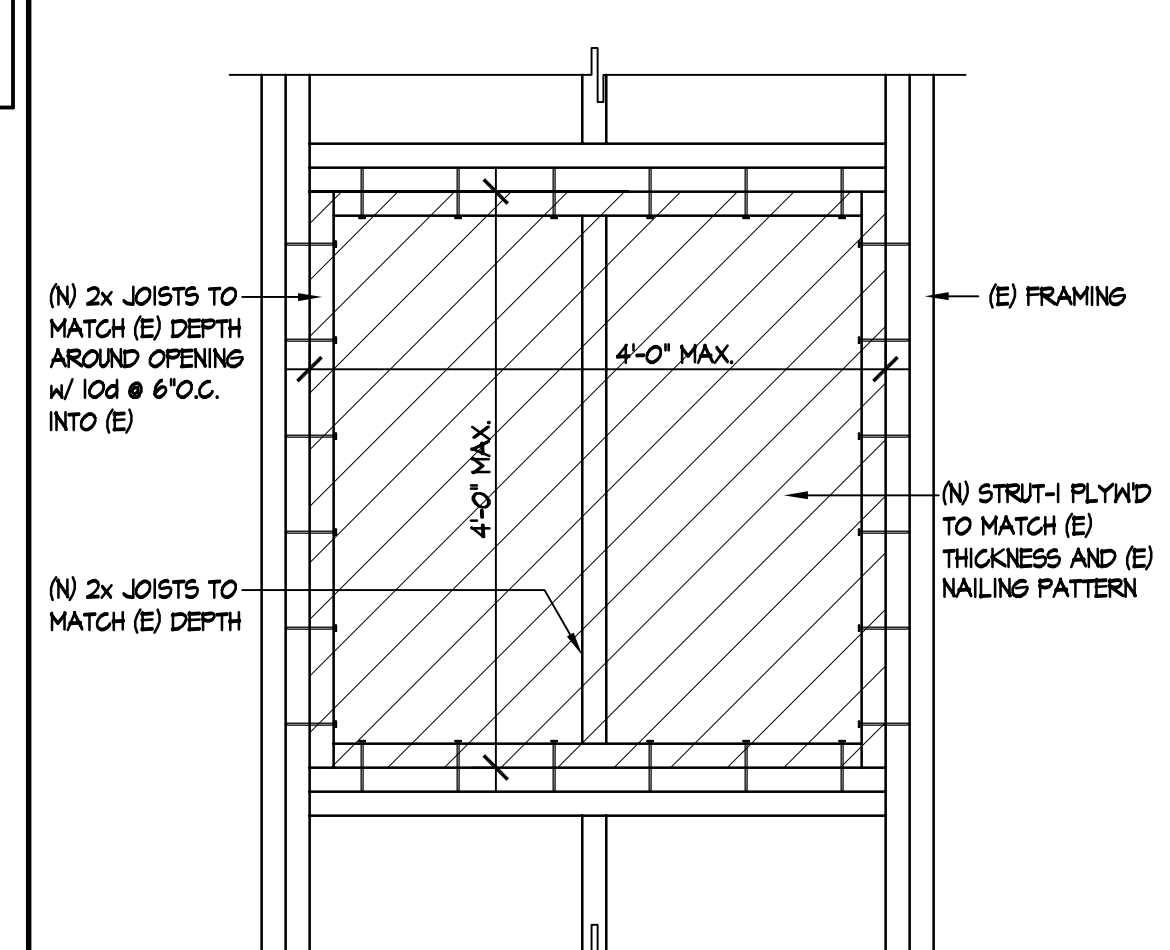
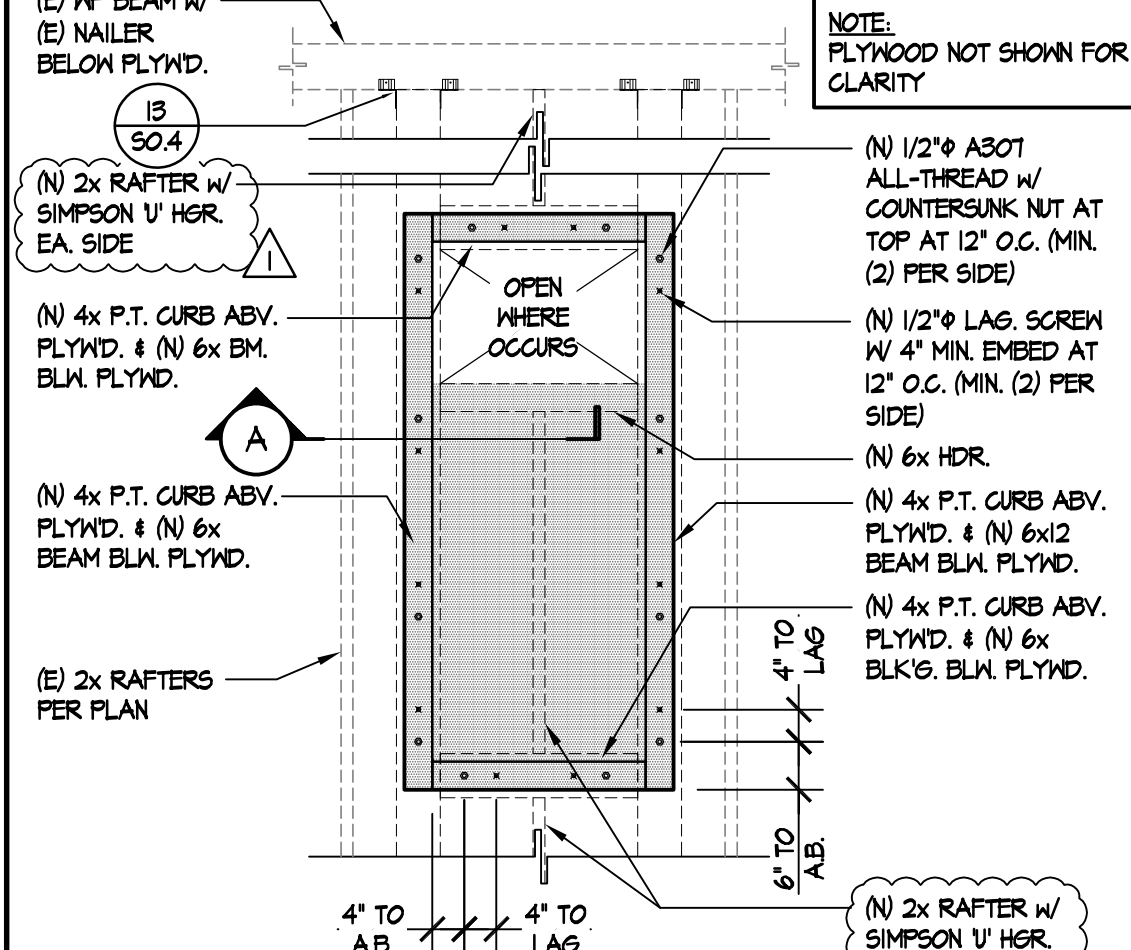
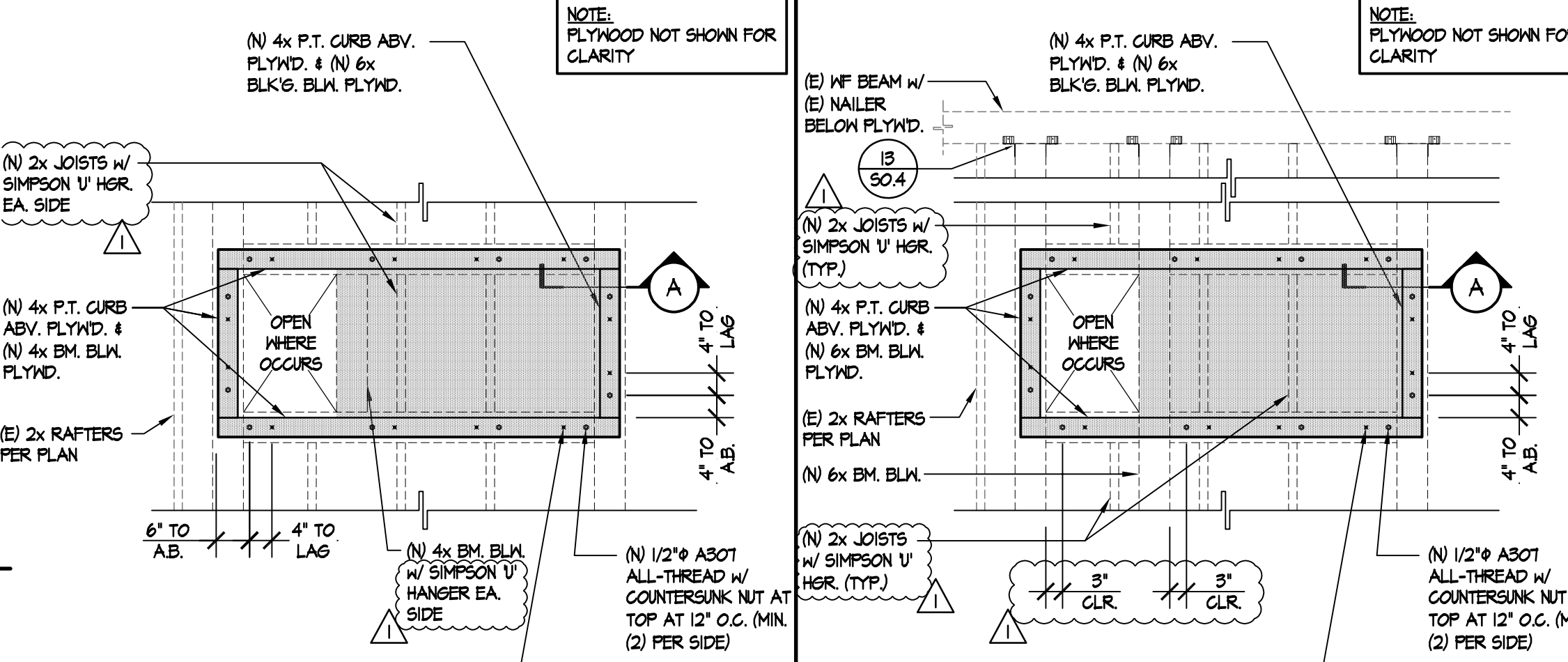
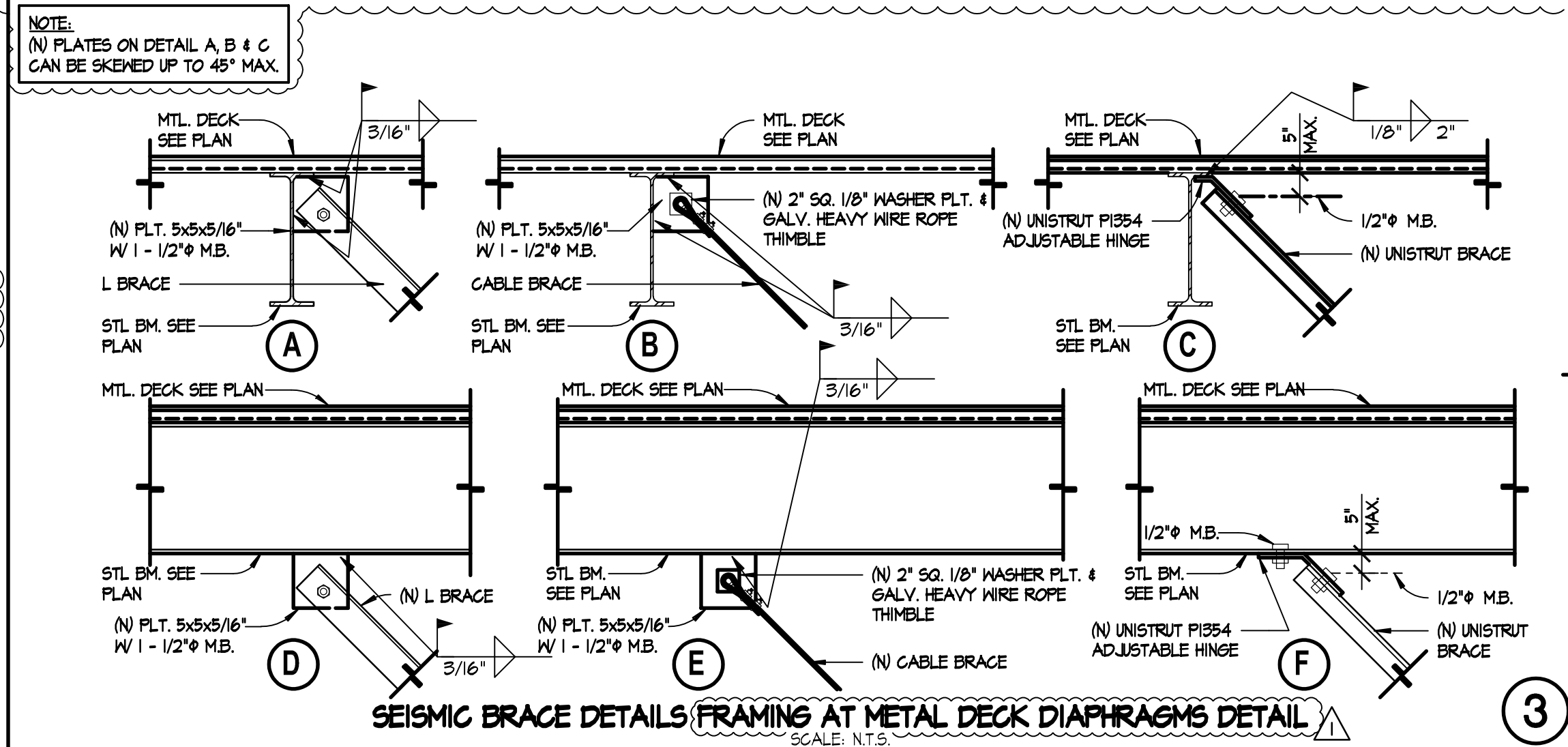
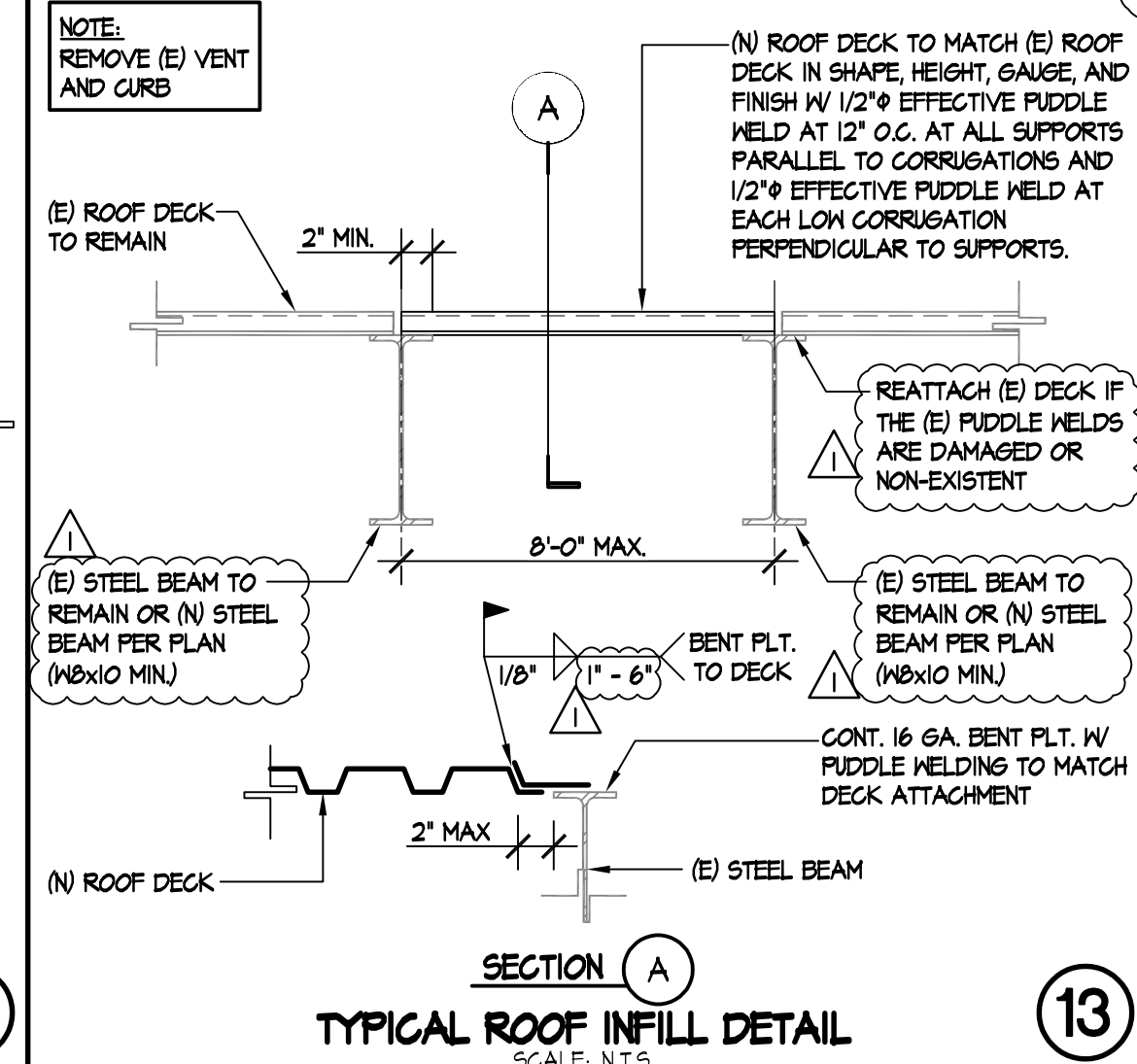
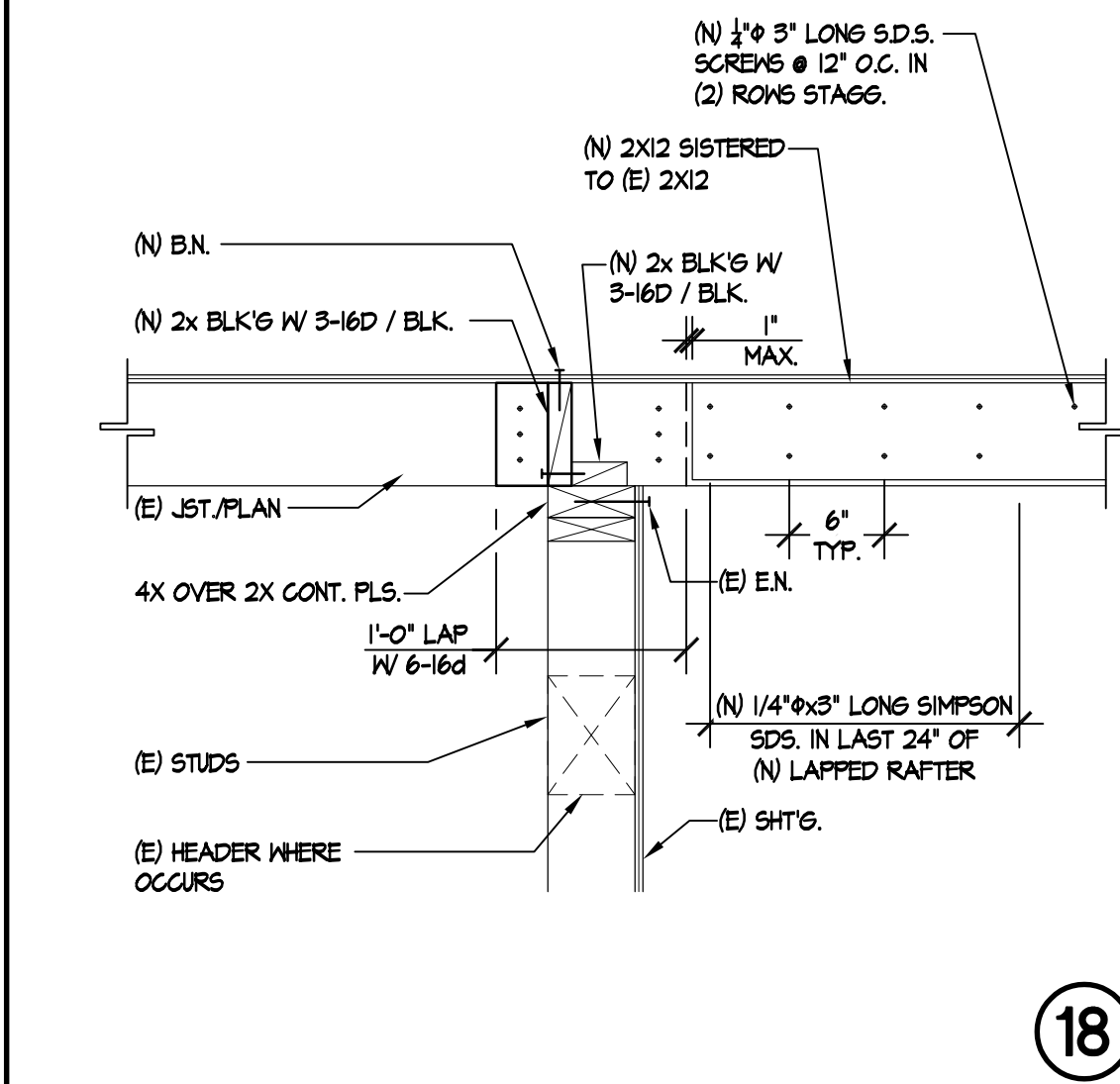
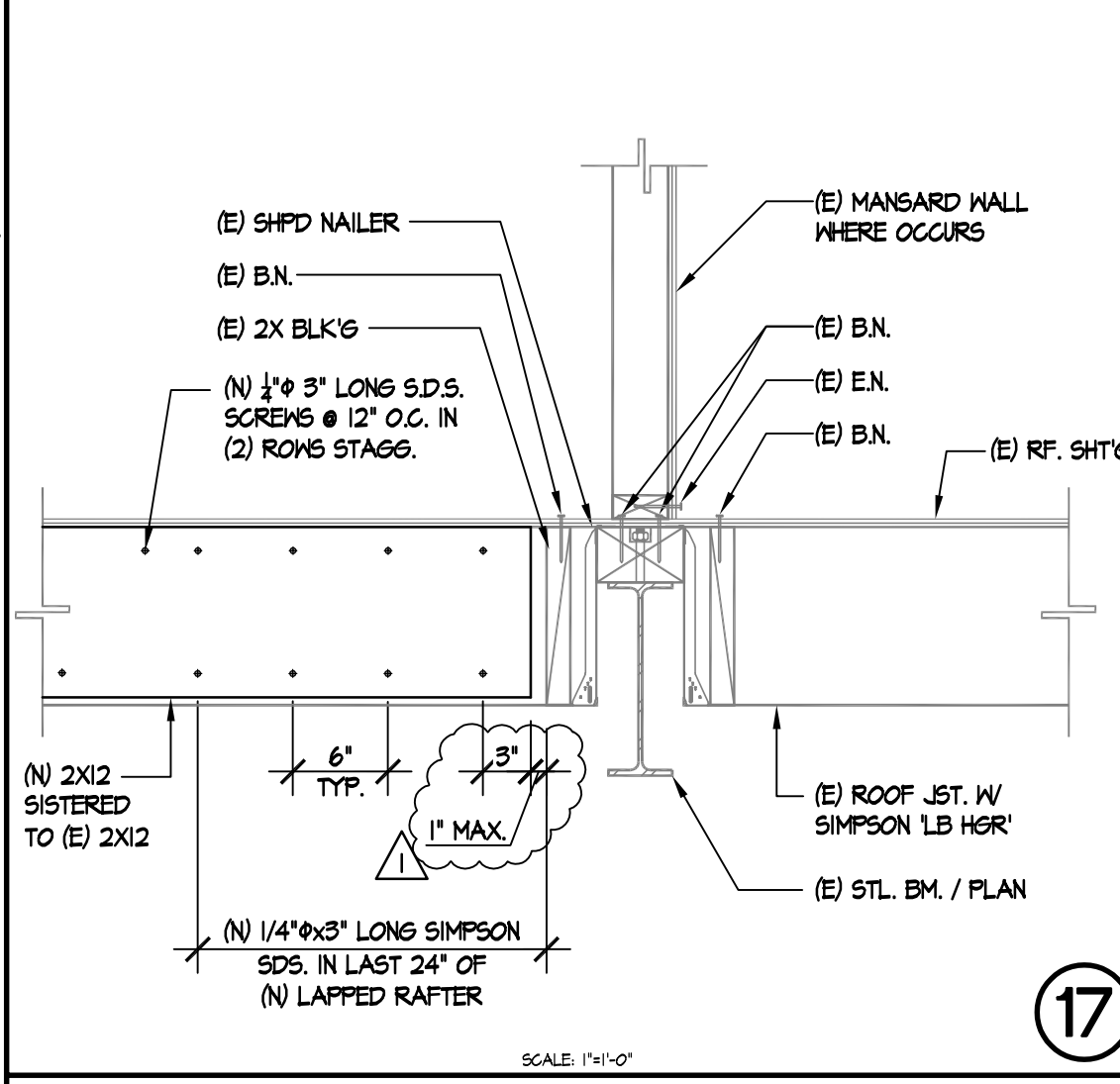
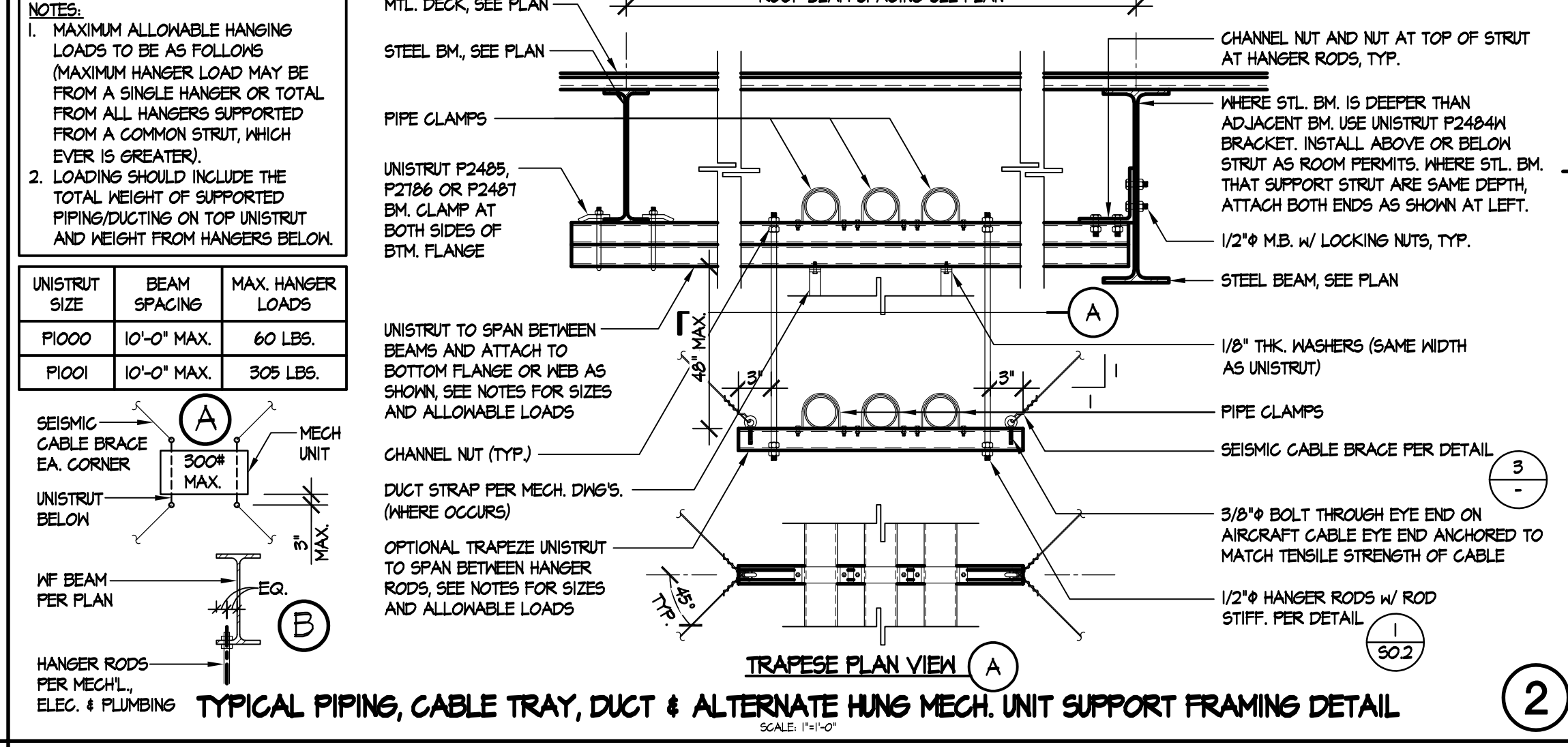
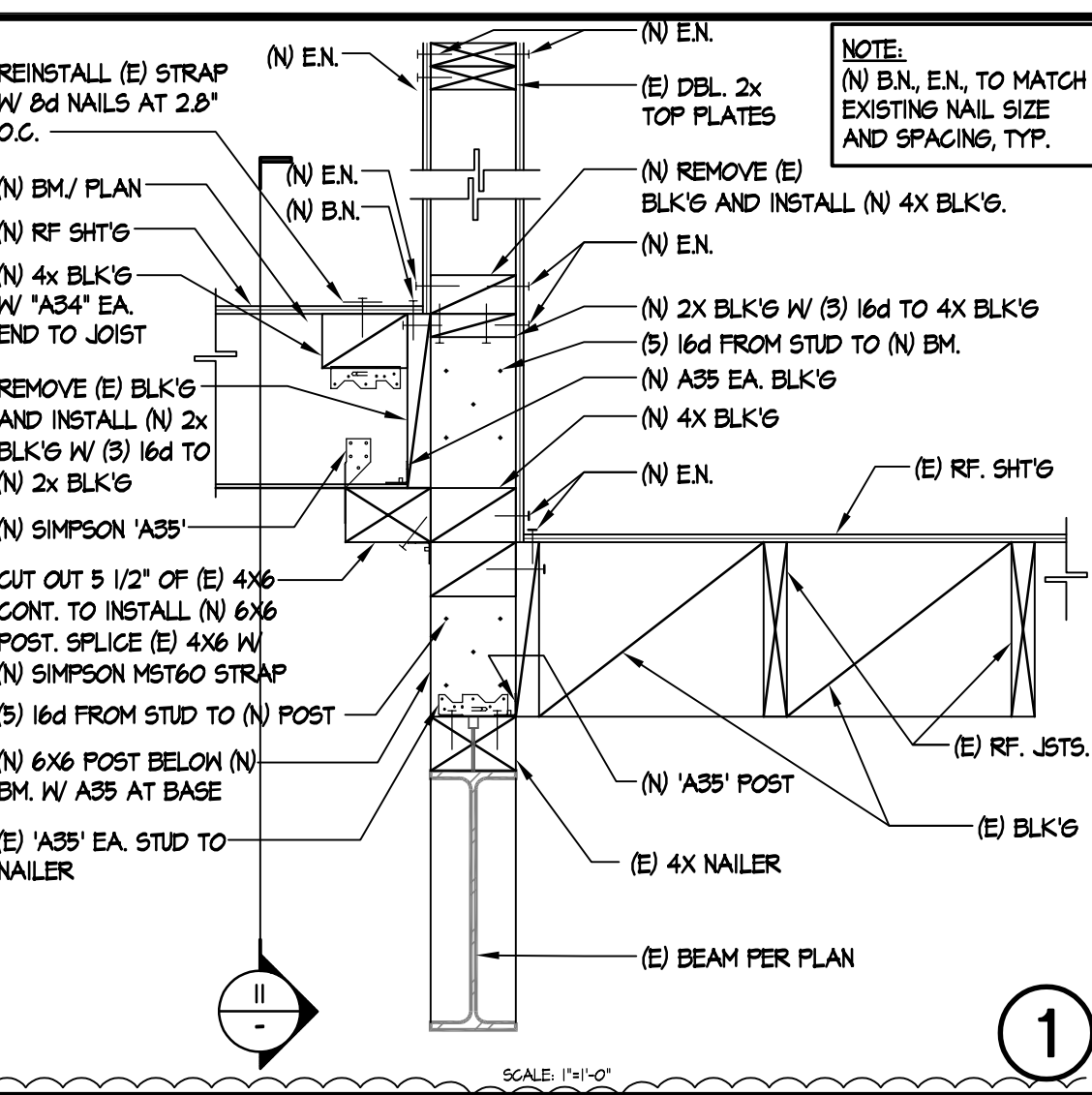
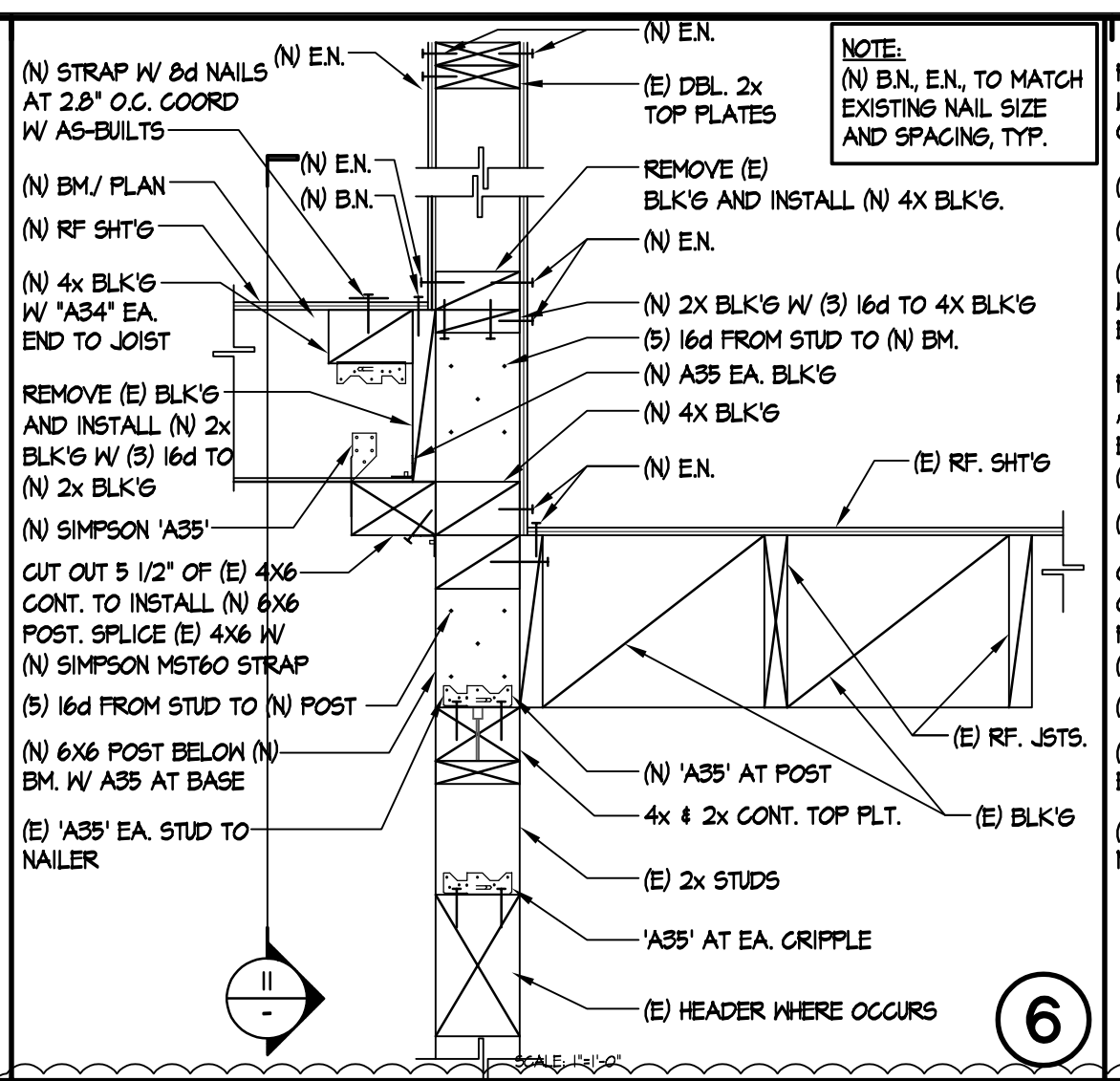
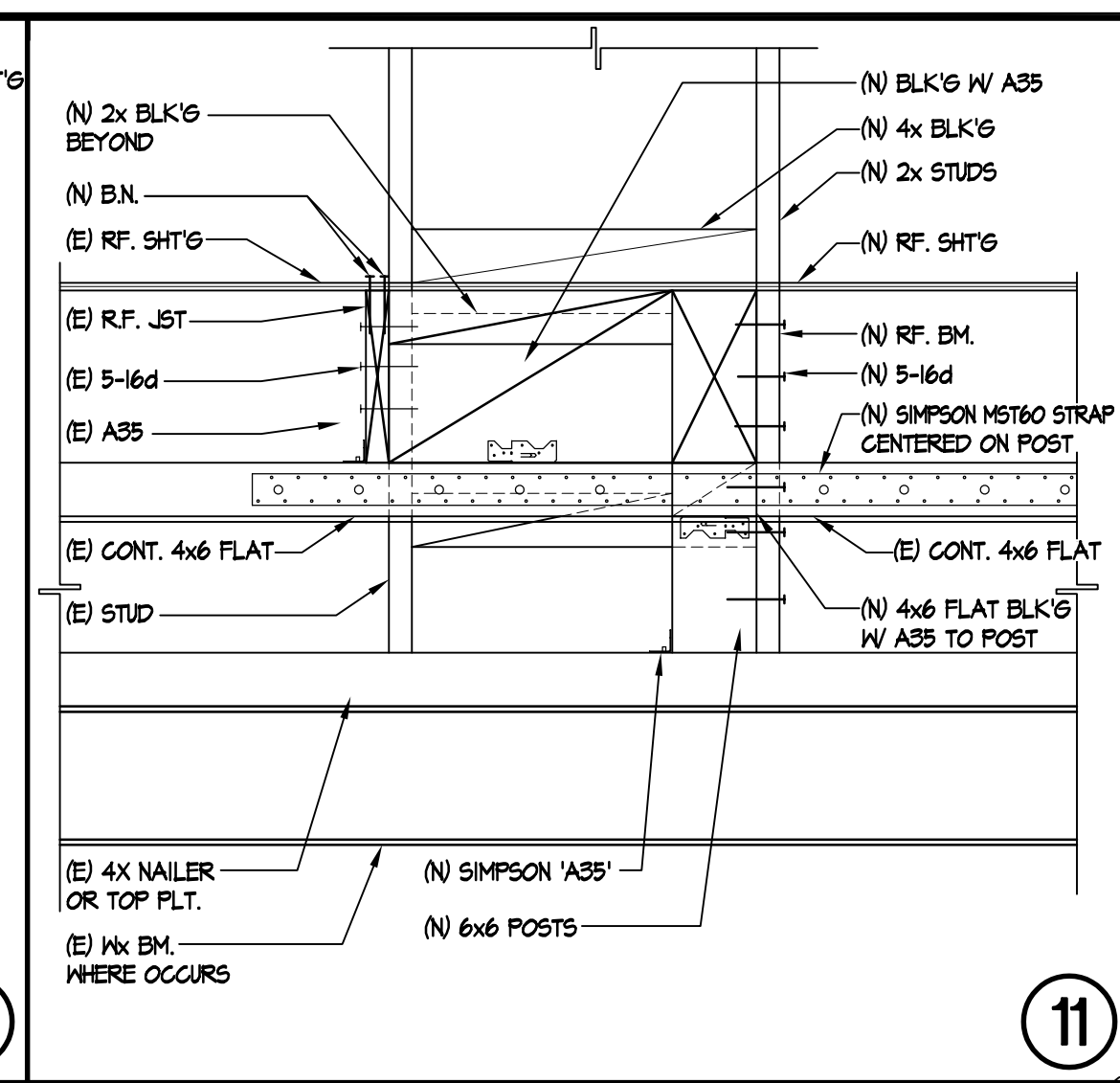
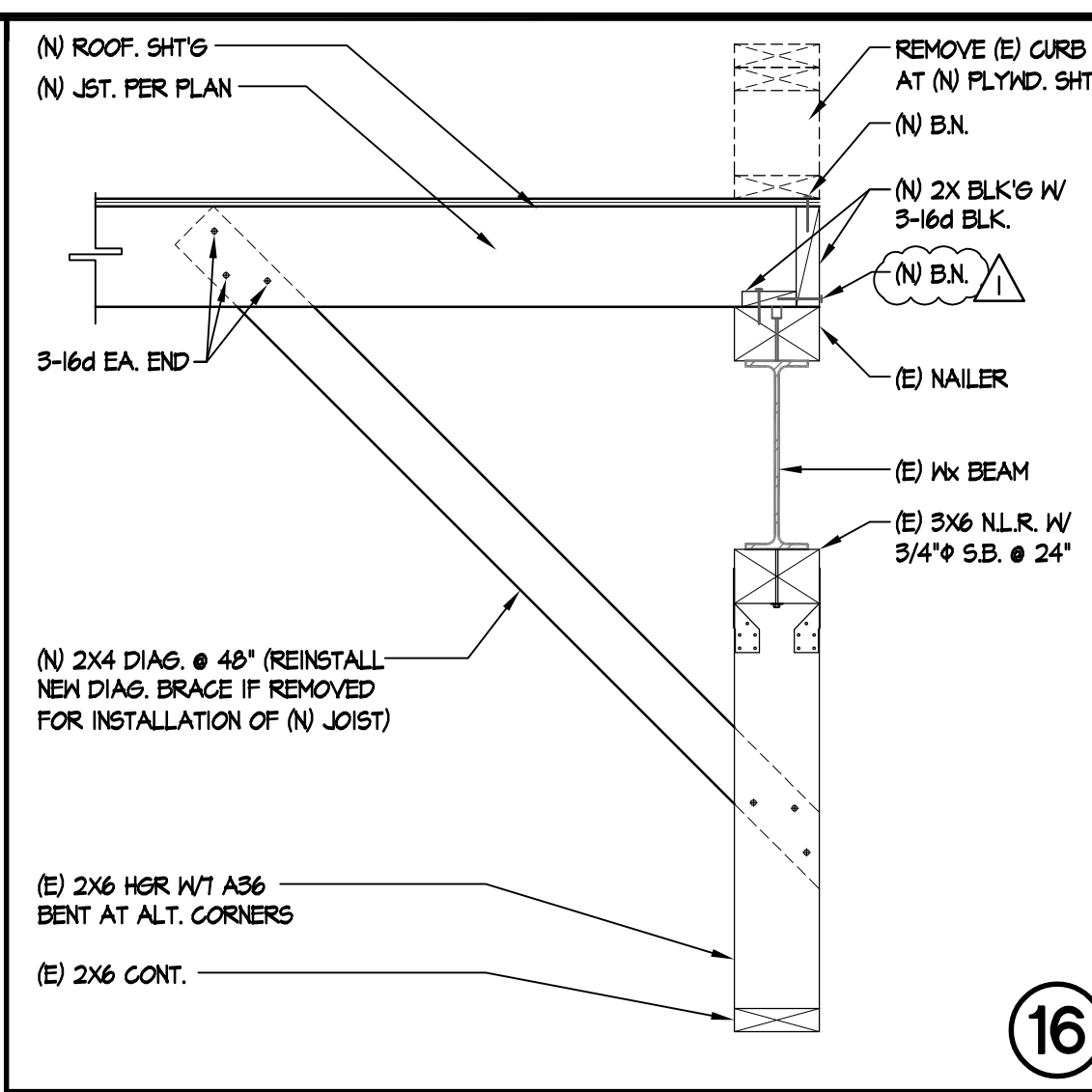
1	8/25/20	ME	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: [] CHECKED: []
DATE: 12/08/2019 SCALE: N.T.S.
PROJECT NUMBER: 20-1906

DETAILS
DRAWING NUMBER: S0.3



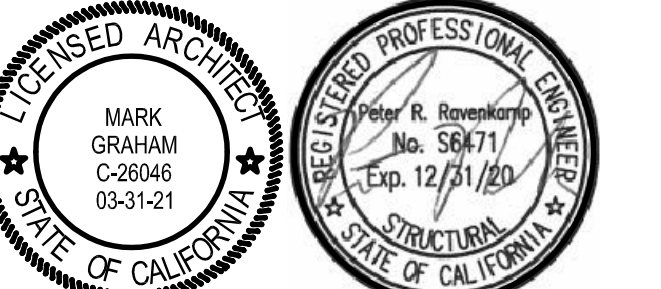
MECH. PLATFORM AND FRAMING SUPPORT DETAIL (23)





SOUTHERN CALIFORNIA 8163 ROCHESTER AVENUE, SUITE 100 RANCHO CUCAMONGA CALIFORNIA 91730-0729

OXNARD HIGH SCHOOL OXNARD UNION HIGH SCHOOL DISTRICT SCHOOL SITE (805) 278-2907 3400 W. GONZALES RD., OXNARD, CA 93036



CONSULTANT ENGINEERING, INC. CONSULTING STRUCTURAL ENGINEERS 4344 LATHAM ST., SUITE 100 ROVINGERS, CA 92001-1773

Table with 4 columns: NO, DATE, BY, DESCRIPTION. Row 1: 1, 8/25/20, ME, ADDENDUM 1

DRAWN: CHECKED: DATE: 12/08/2019 SCALE: N.T.S. PROJECT NUMBER: 20-19-06

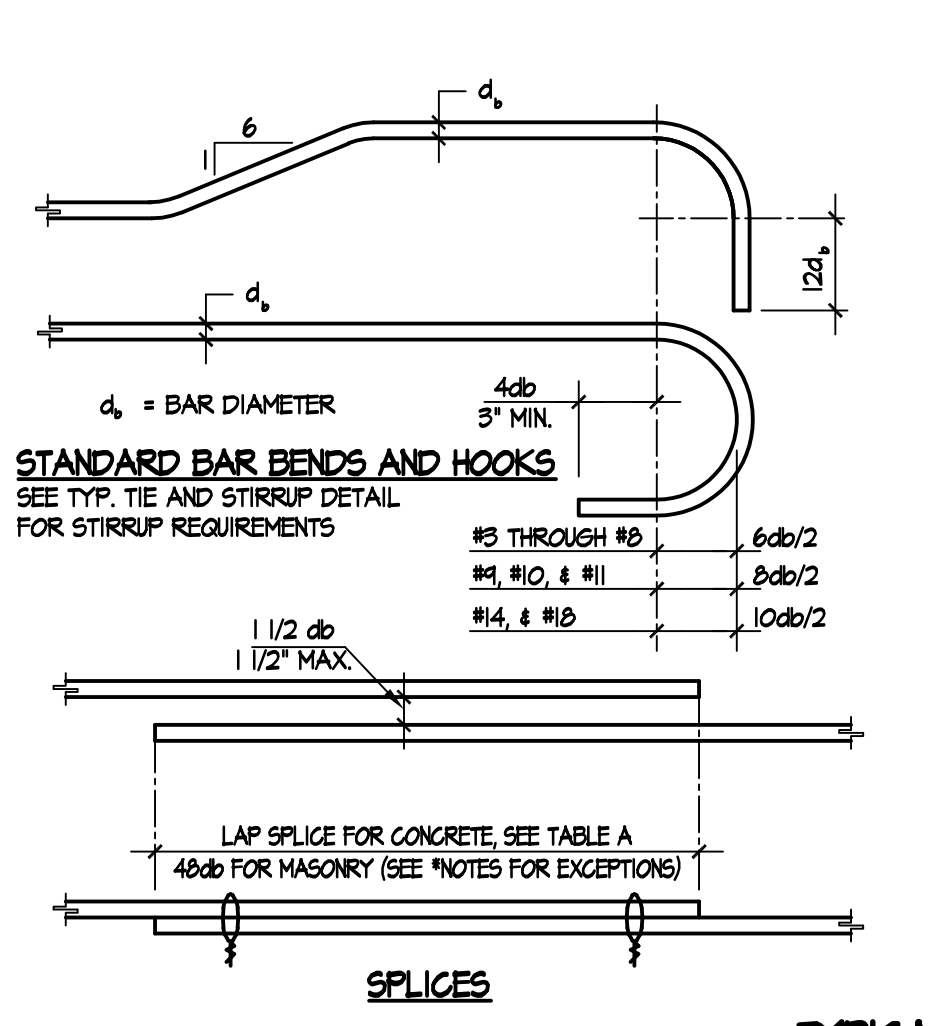
DETAILS

DRAWING NUMBER: S0.4

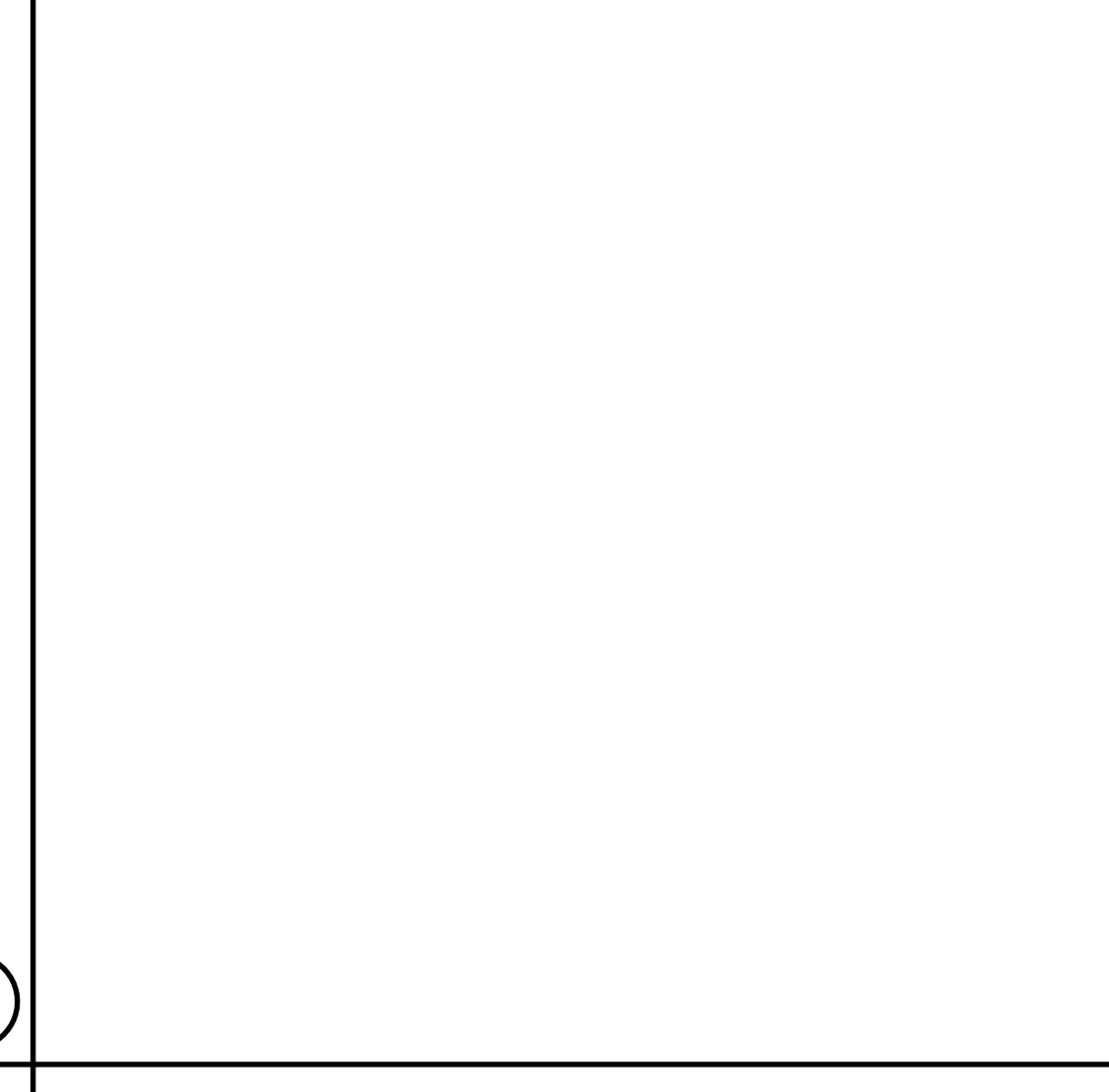
TABLE A: BAR LAP SPLICES IN CONCRETE (CLASS B) 3500 P.S.I. and 4000 P.S.I. with columns for BAR SIZE and BAR LAP.

NOTE: ALL TABULATED BAR LAPS SHALL BE MULTIPLIED BY 1.3 FOR LIGHT WEIGHT CONCRETE.

- 1. NOTE: PROVIDE MIN. TO BAR DIA. LAP SPLICE FOR THE FOLLOWING SPECIFIC MASONRY REINFS. CONDITIONS: 1. ALL JAMB REINFS. 2. VERT REINFS SPLICES OCCURRING AT MID 1/3 HEIGHT OF WALL. 3. ALL CHORD REINFS. 4. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 4d; CLEAR COVER NOT LESS THAN 4d; AND STRIPPERS OR TIES THROUGHOUT Ld NOT LESS THAN THE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2d; AND CLEAR COVER NOT LESS THAN 4d.



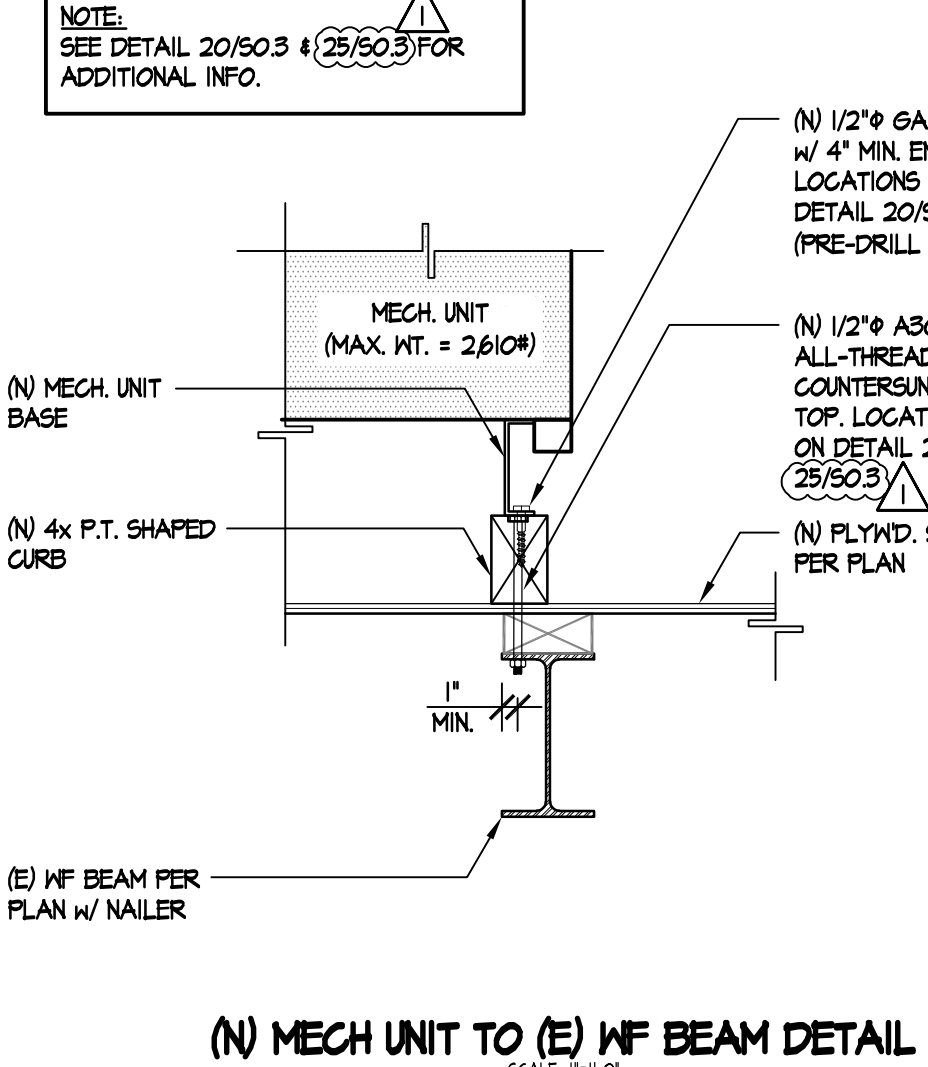
TYPICAL REINFORCING BAR DETAILS



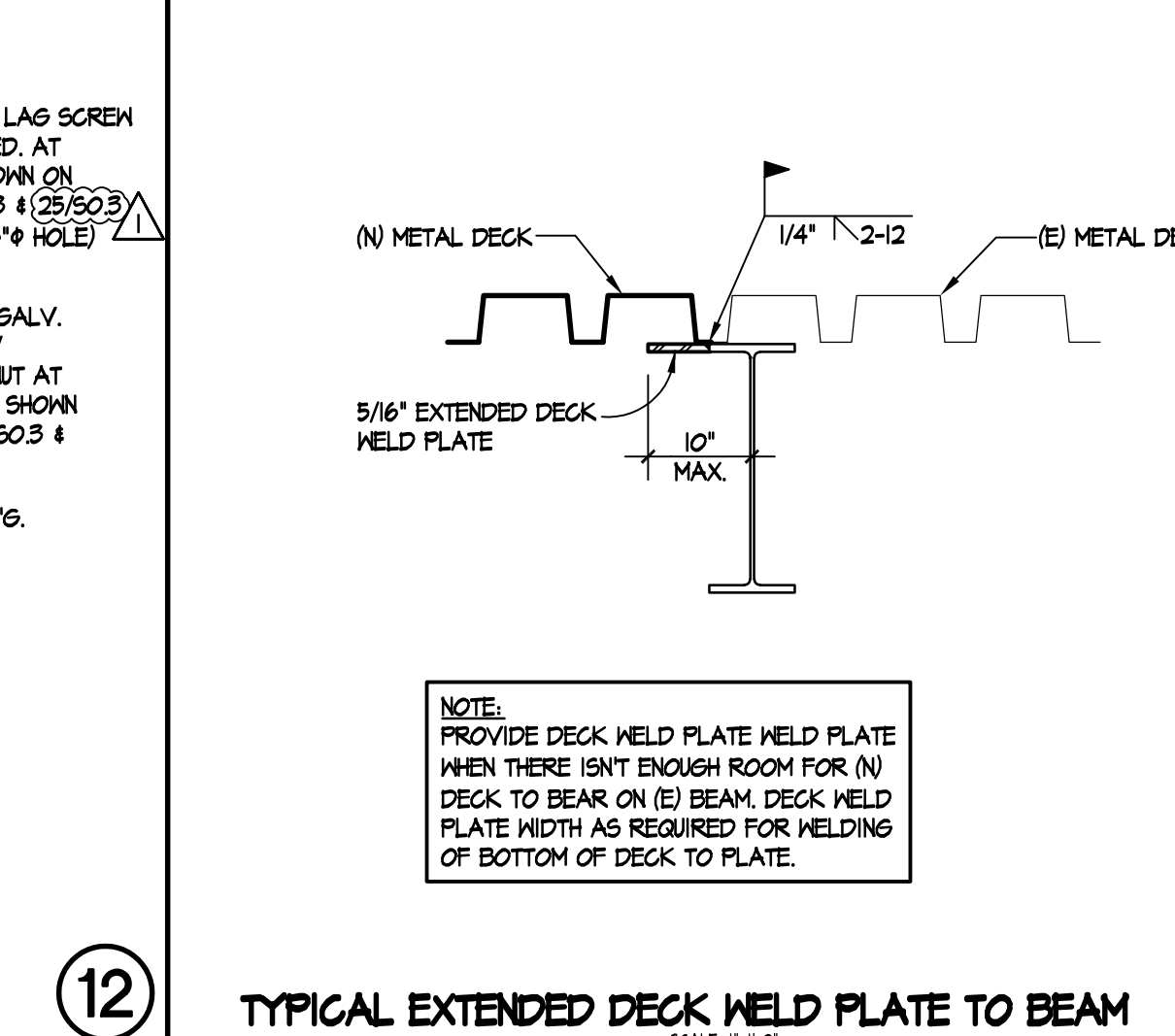
SECTION PROPERTIES FOR TYPE PLB-36 DECK

Table with 3 columns: GA, (N), and (I). Rows for 6A, 7A, 8A, 9A, 10A.

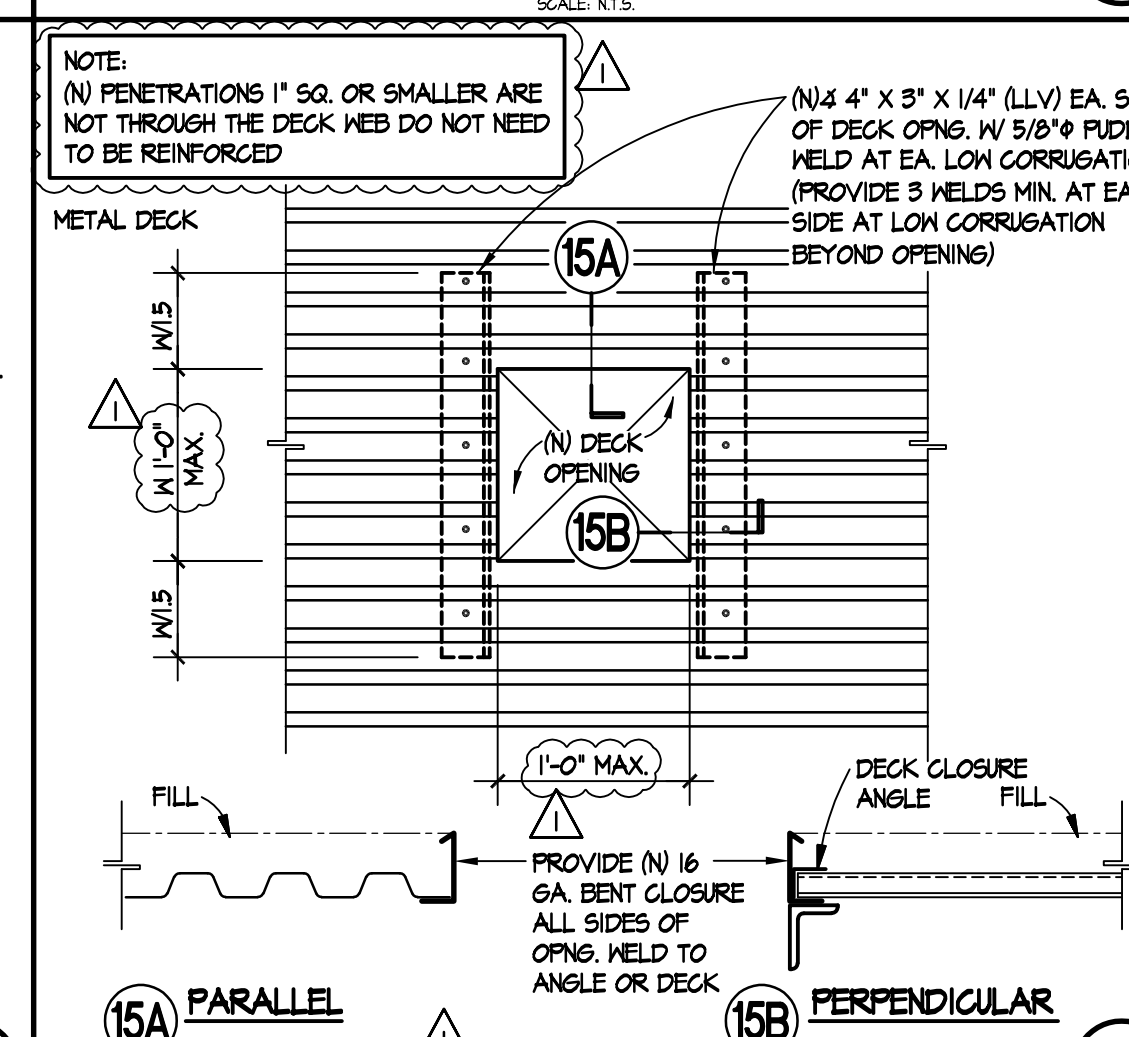
TYPICAL EXTENDED DECK WELD PLATE TO BEAM



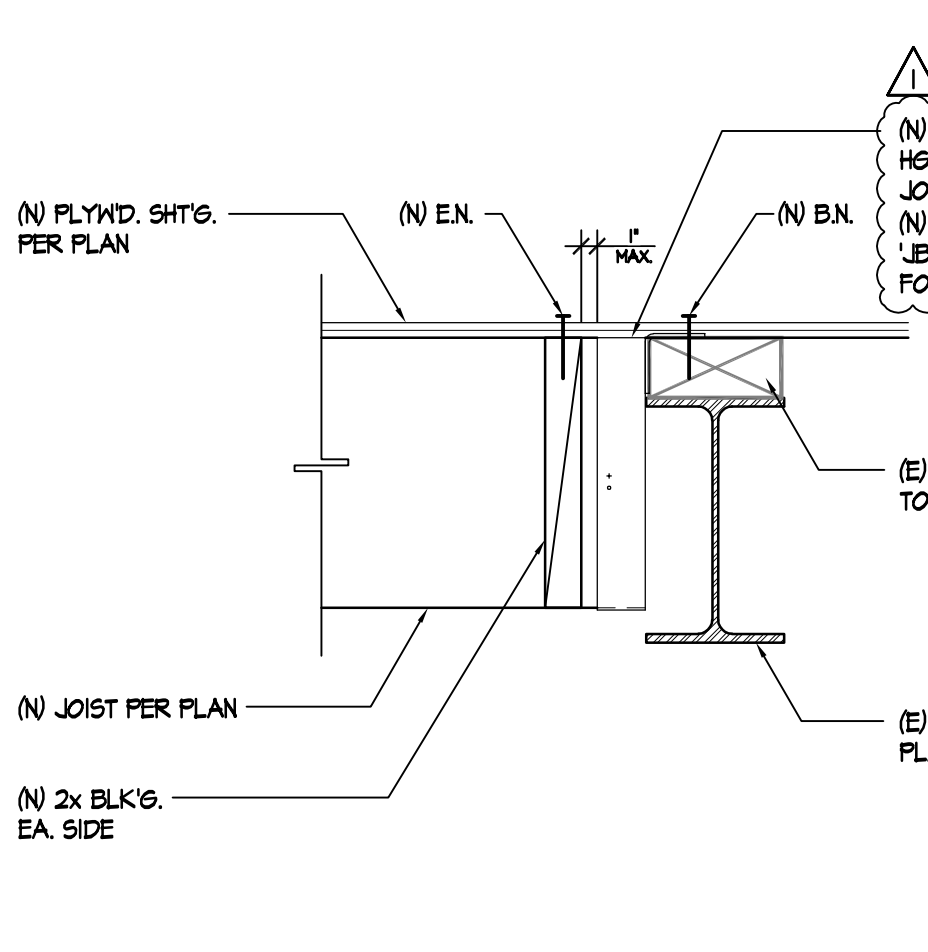
(N) MECH UNIT TO (E) WF BEAM DETAIL



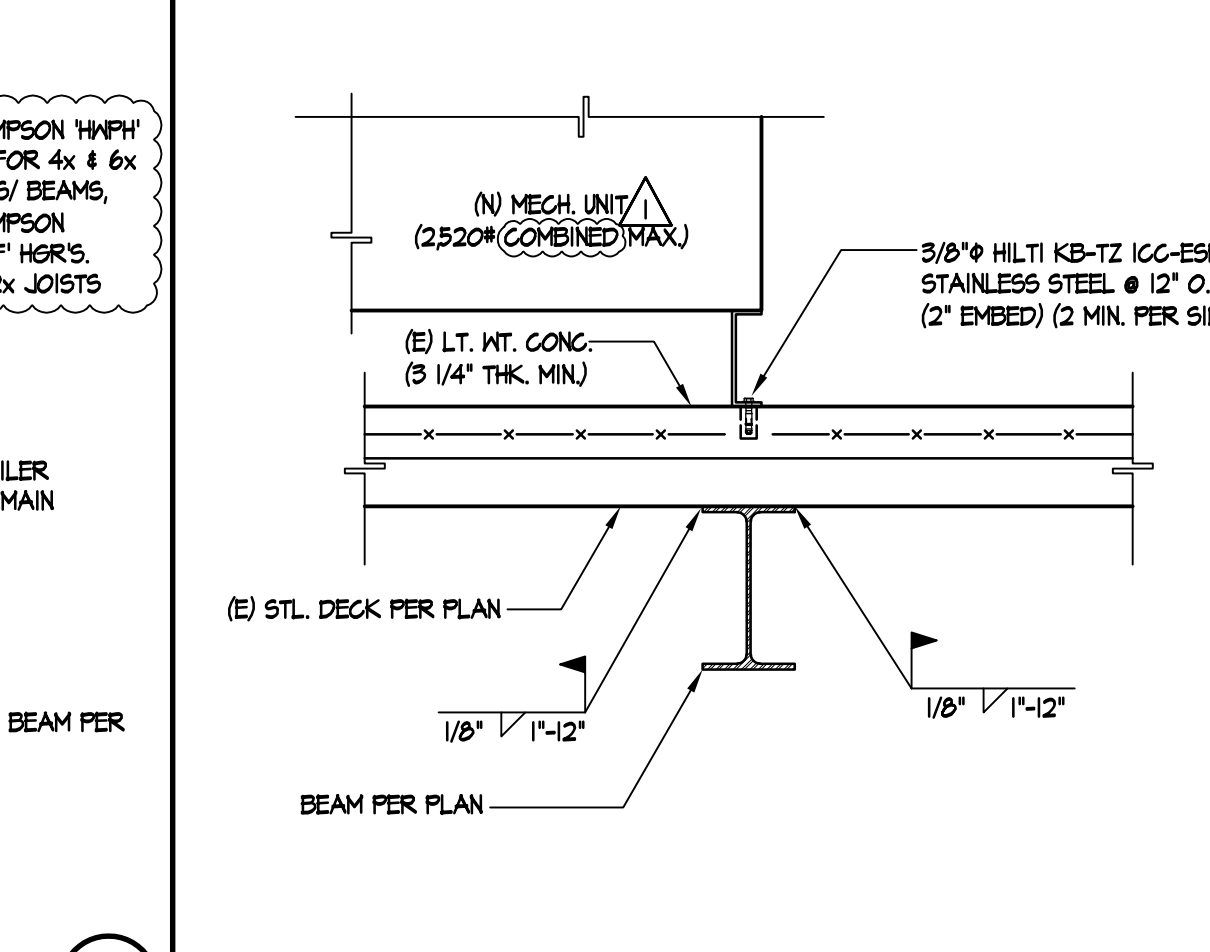
TYPICAL EXTENDED DECK WELD PLATE TO BEAM



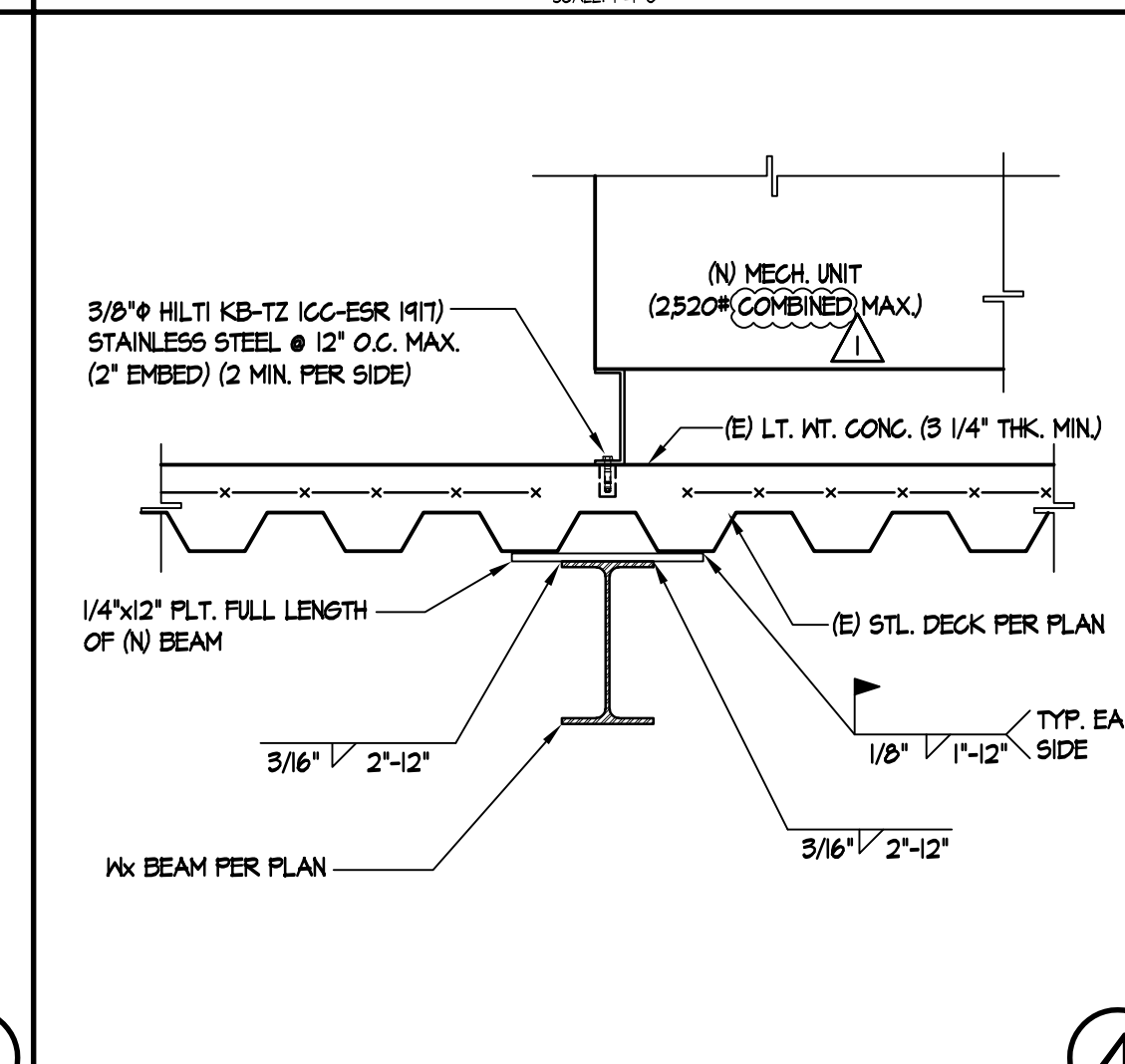
TYPICAL ROOF DECK OPENING DETAIL



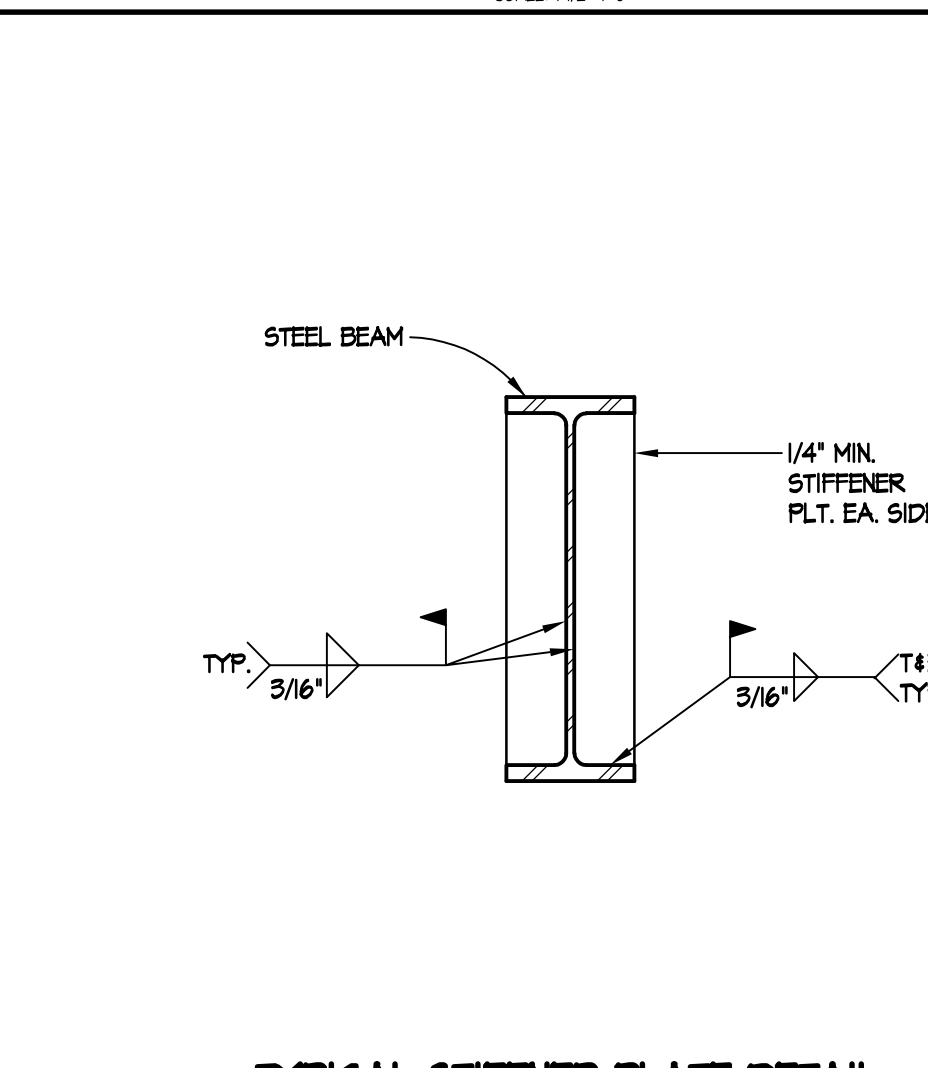
TYPICAL WOOD BEAM TO WF BEAM DETAIL



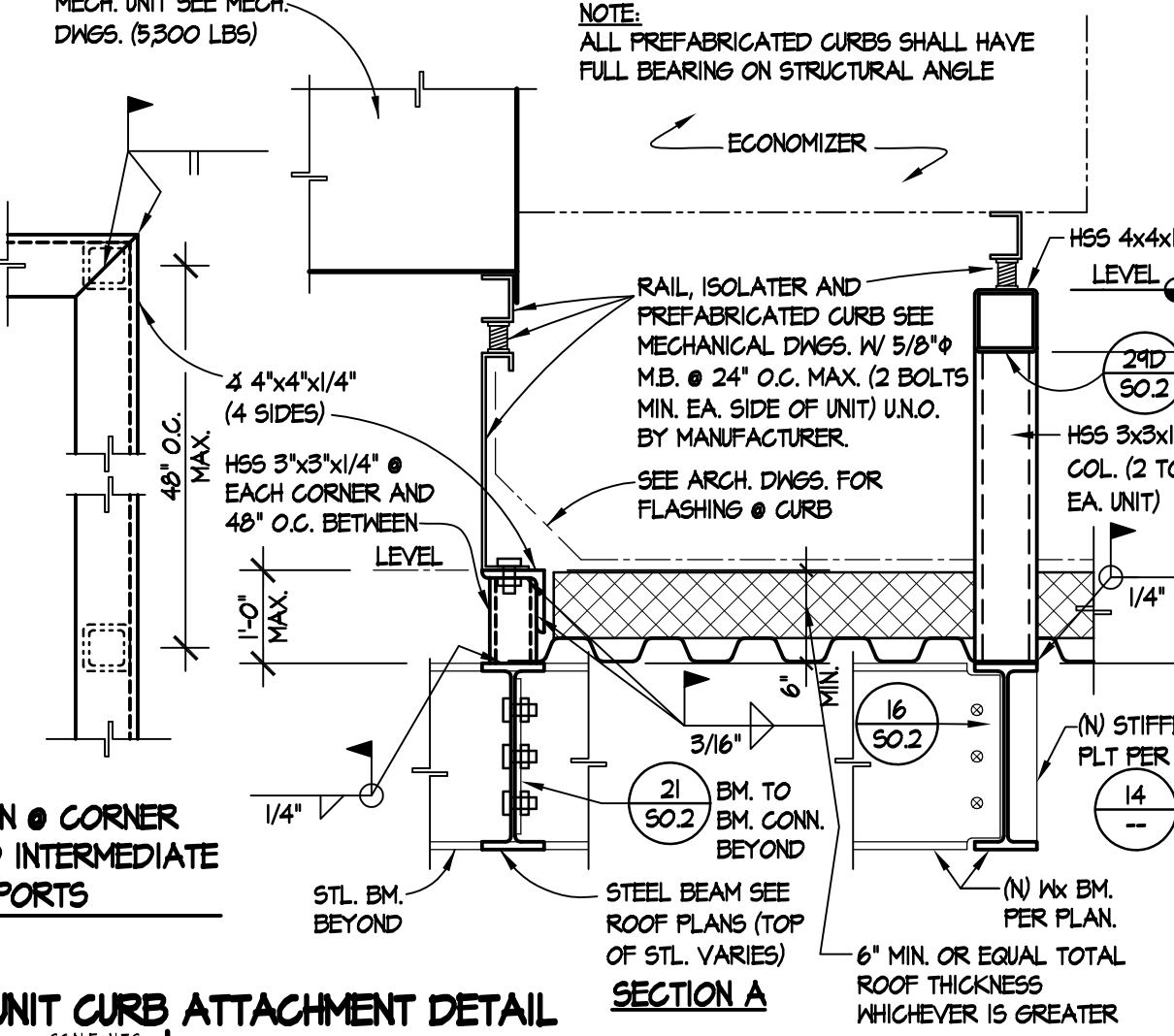
TYPICAL PIPE OR DUCT OPENING THROUGH CONCRETE ON METAL DECK



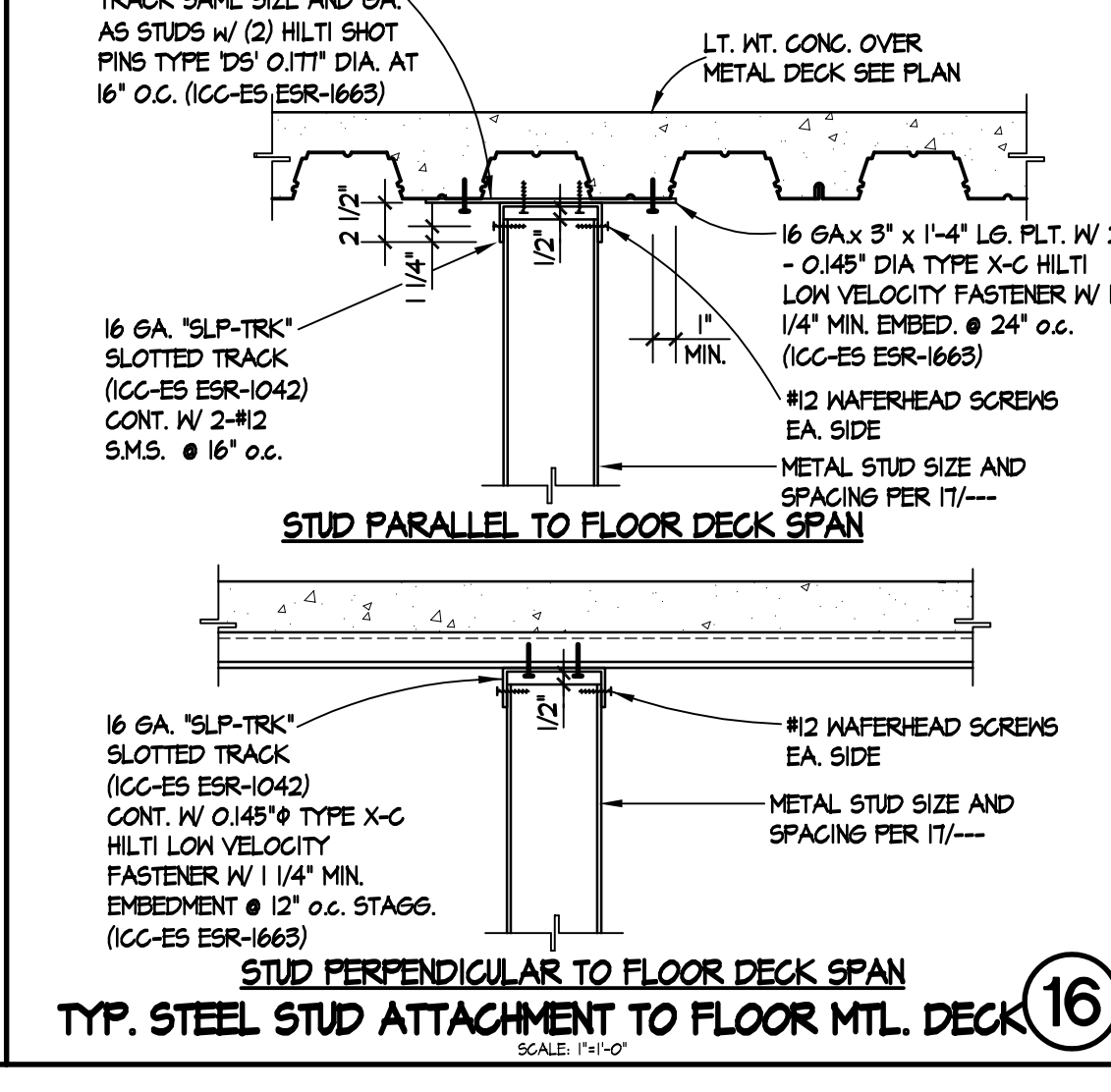
TYPICAL STIFFENER PLATE DETAIL



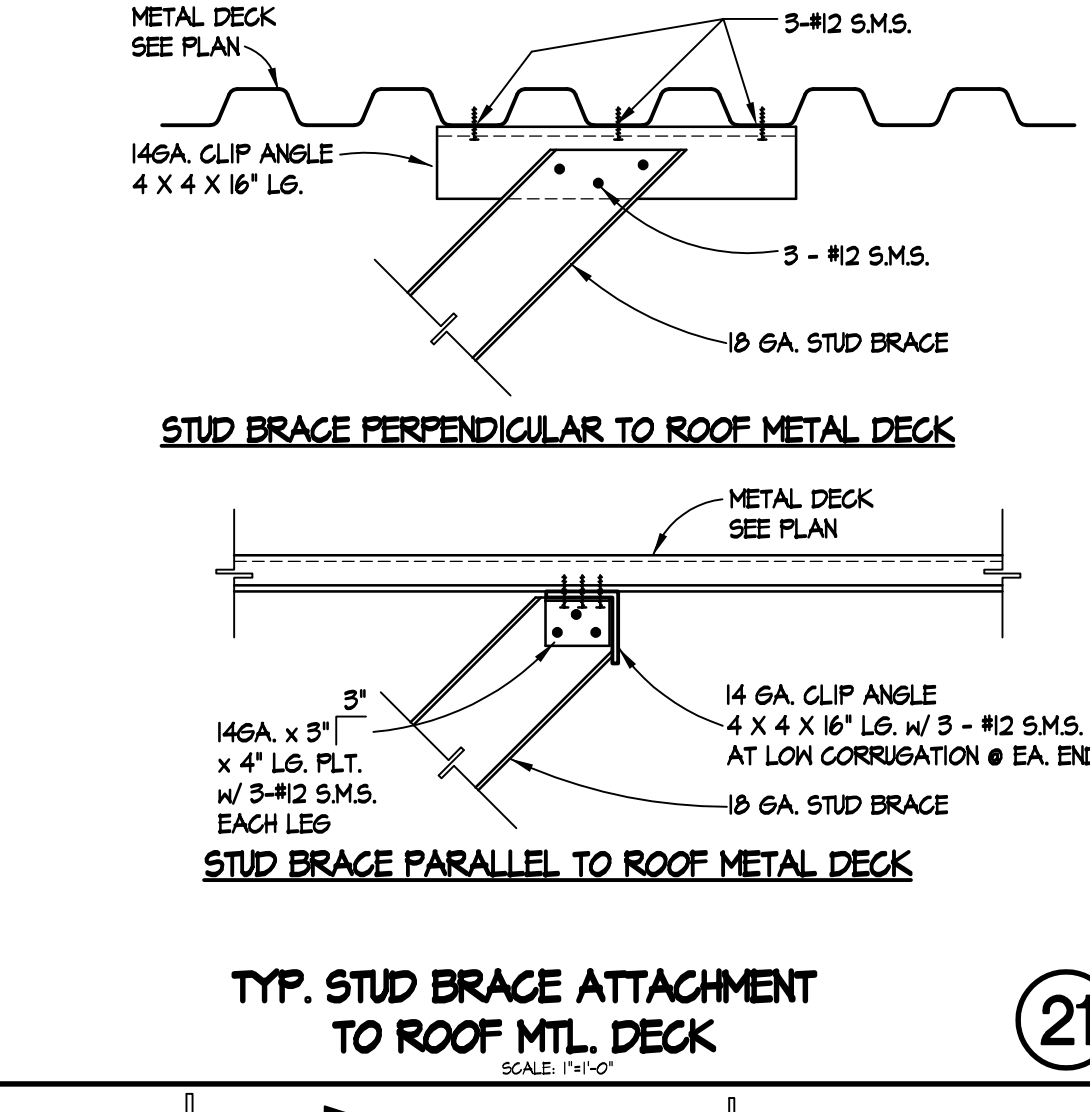
TYPICAL STEEL STUD FRAMING DETAILS



TYPICAL MECH. UNIT CURB ATTACHMENT DETAIL



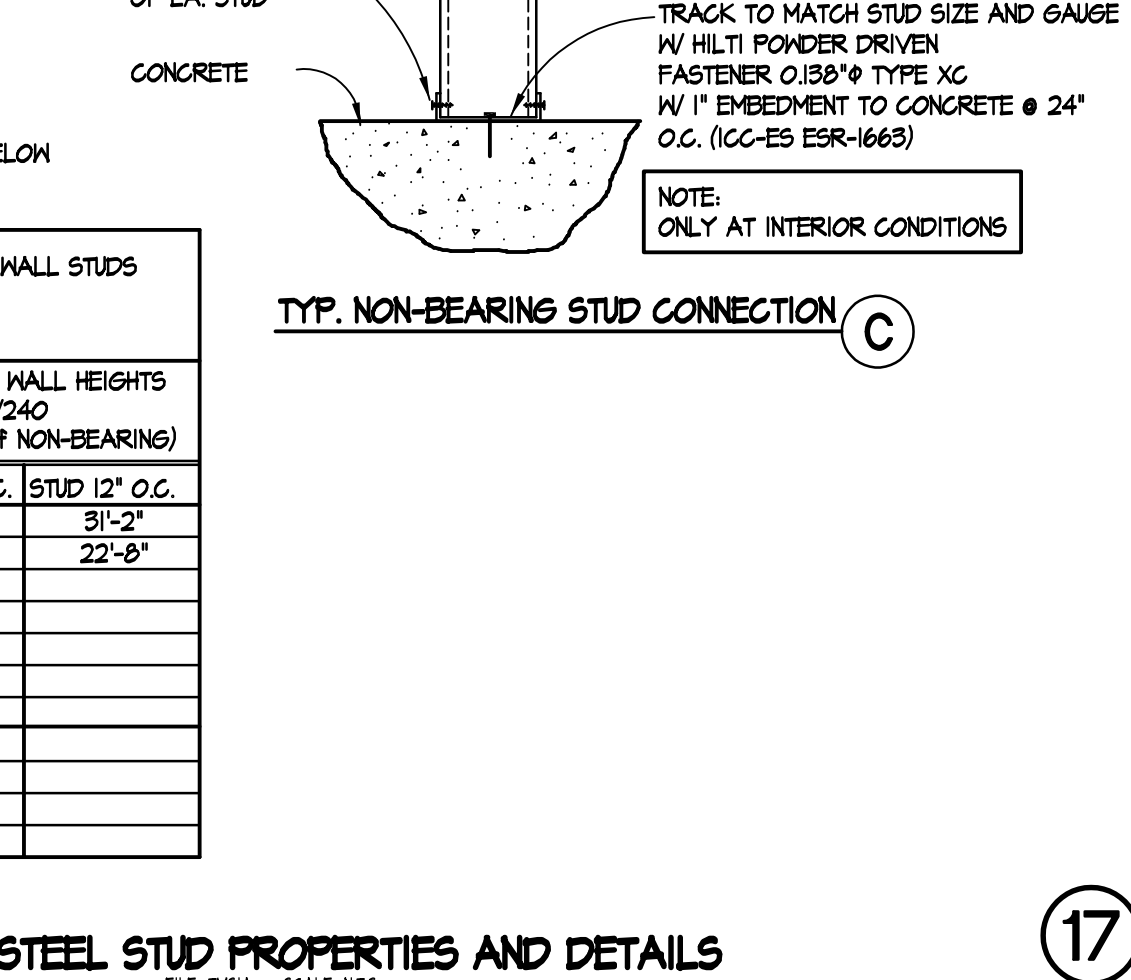
TYP. STEEL STUD ATTACHMENT TO FLOOR MTL. DECK



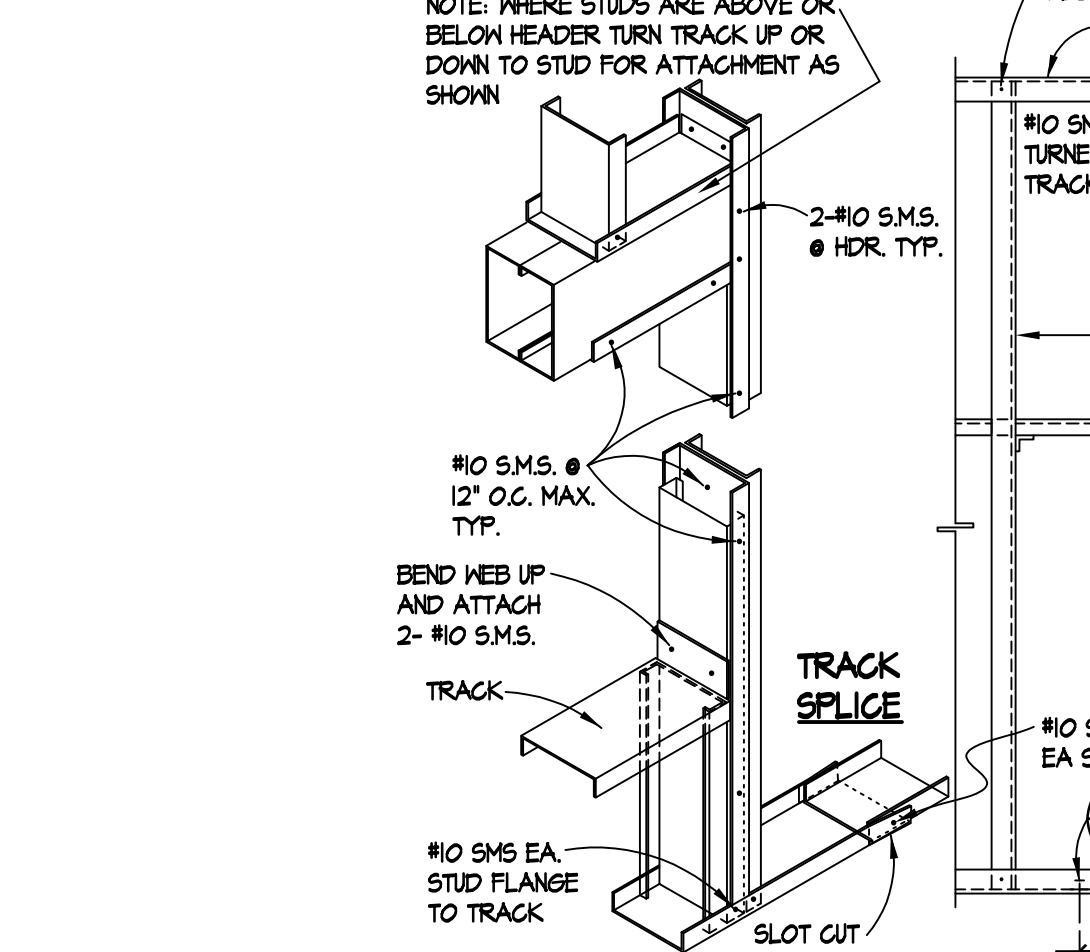
TYP. STUD BRACE ATTACHMENT TO ROOF MTL. DECK

STEEL STUD PROPERTIES table with columns for size/type, GA, Ix, Iy, Sx, Sy, Zx, Zy, J, and Cx, Cy.

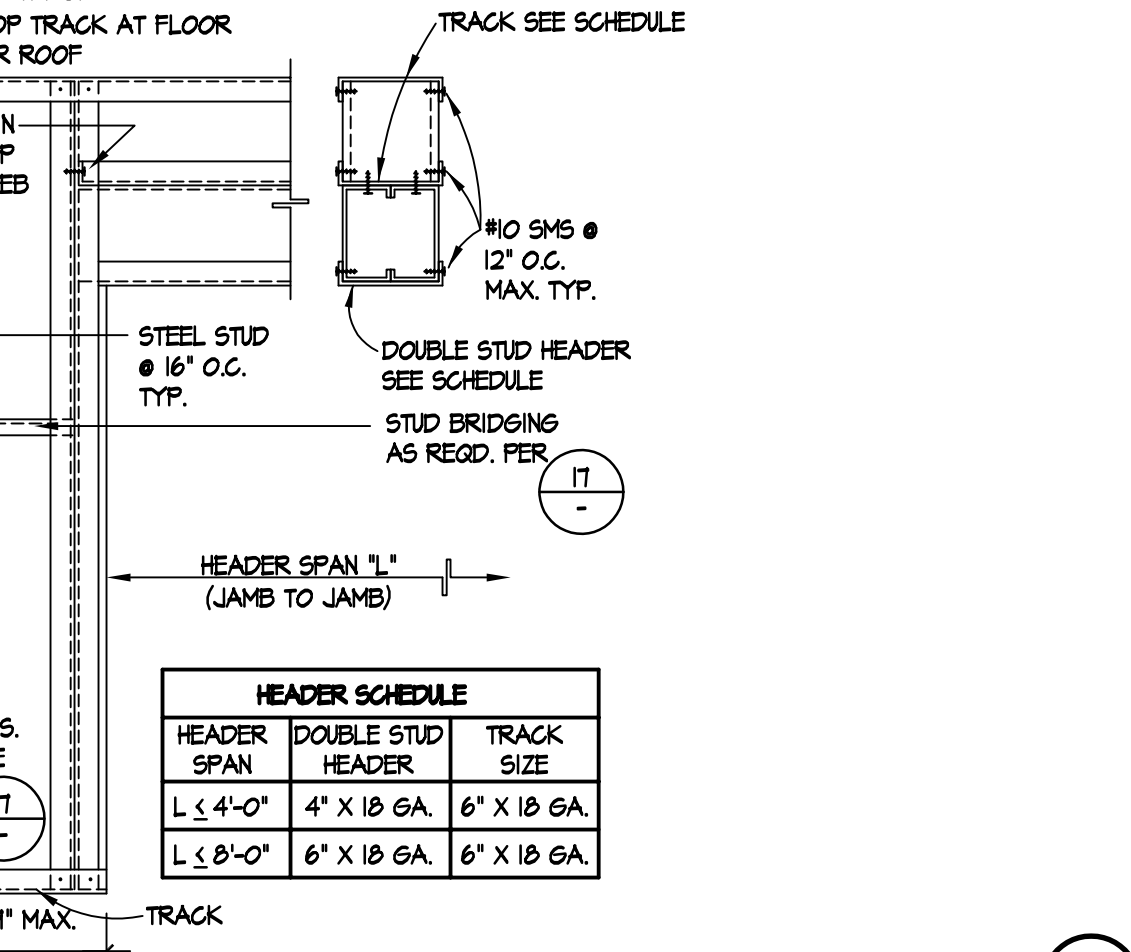
TYPICAL STEEL STUD PROPERTIES AND DETAILS



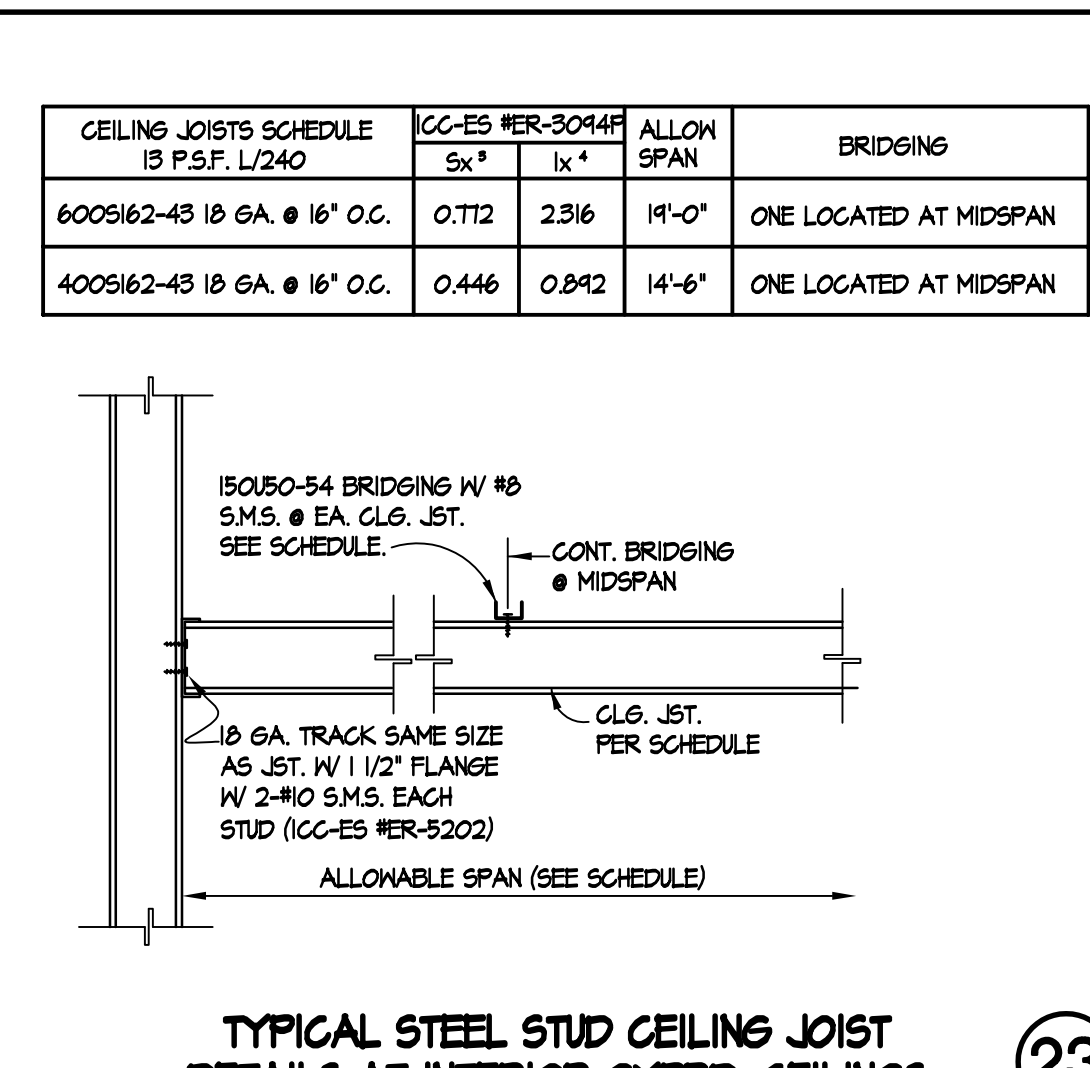
TYP. NON-BEARING STUD CONNECTION



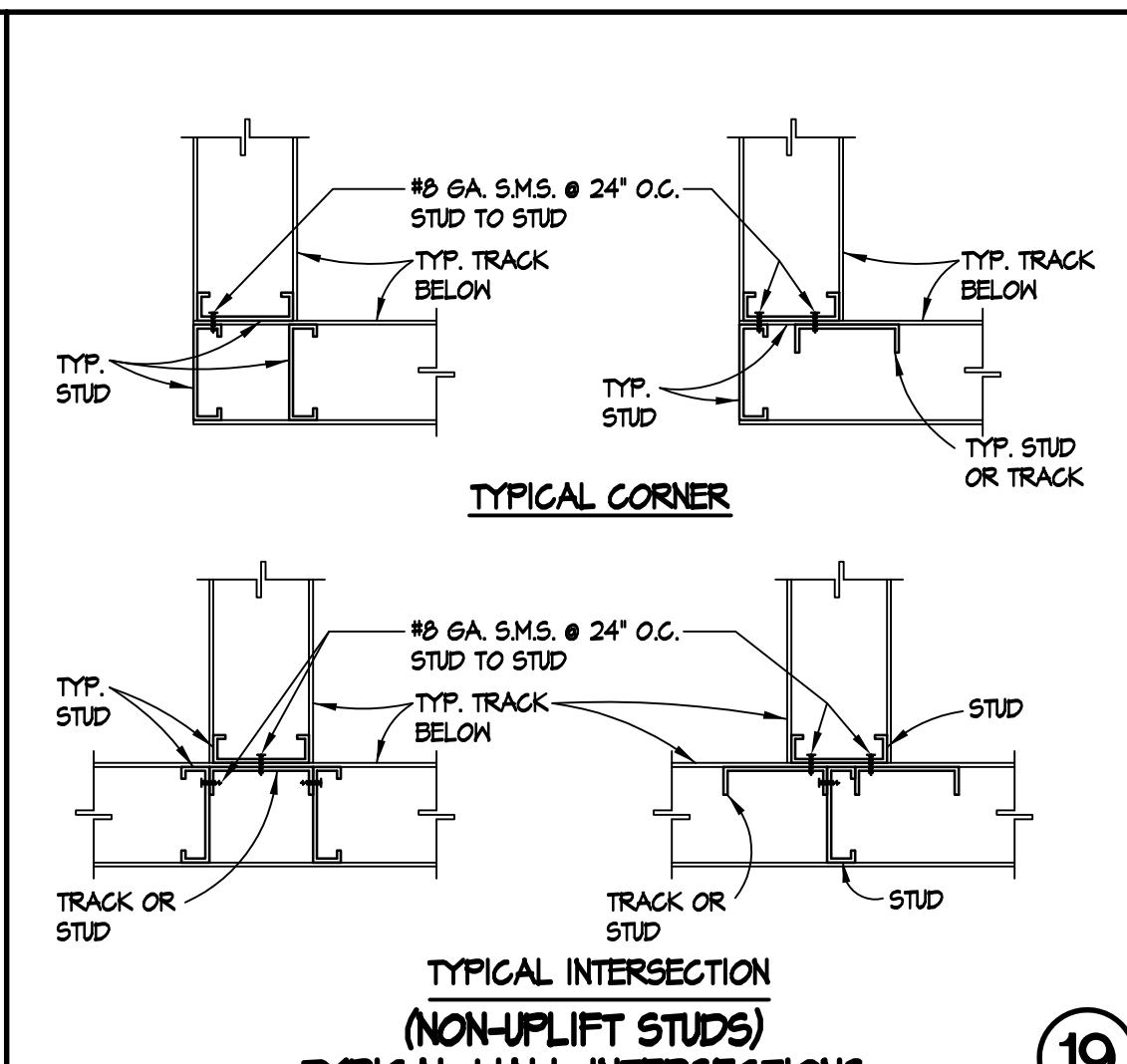
TYPICAL STEEL STUD CEILING JOIST DETAILS AT INTERIOR SYBD. CEILINGS



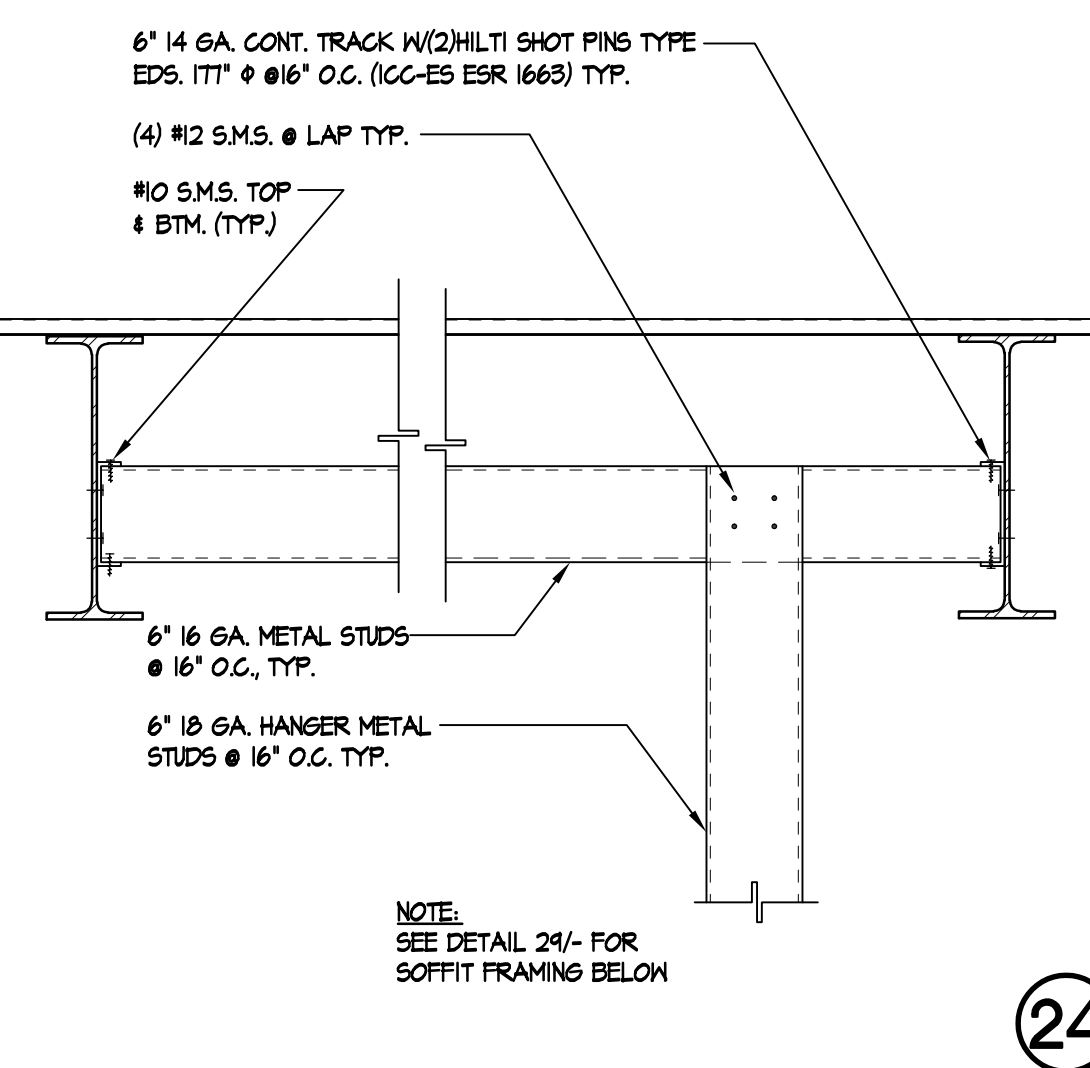
TYPICAL WALL INTERSECTIONS (NON-UPT STUDS)



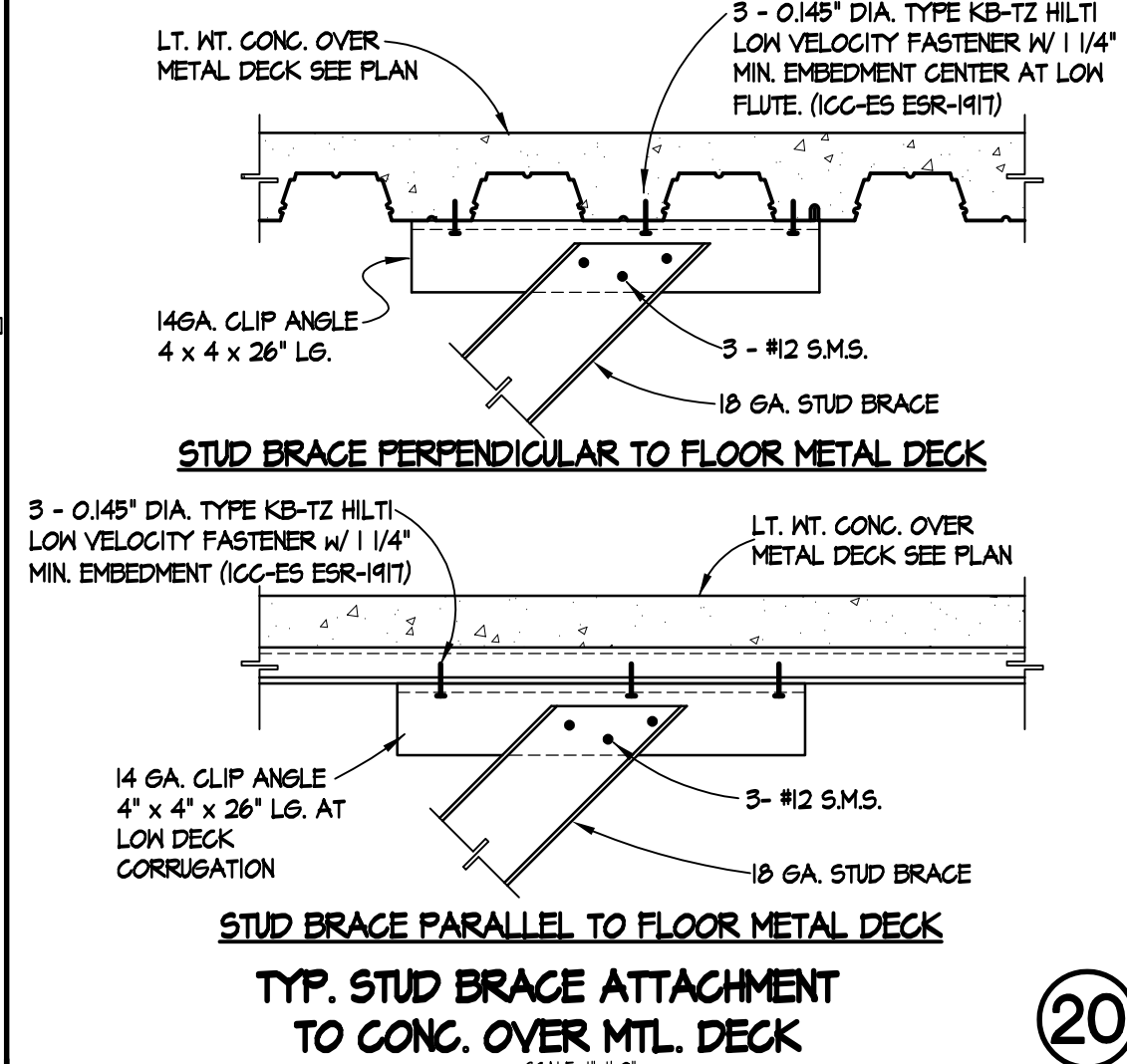
TYPICAL STEEL STUD CEILING JOIST DETAILS AT INTERIOR SYBD. CEILINGS



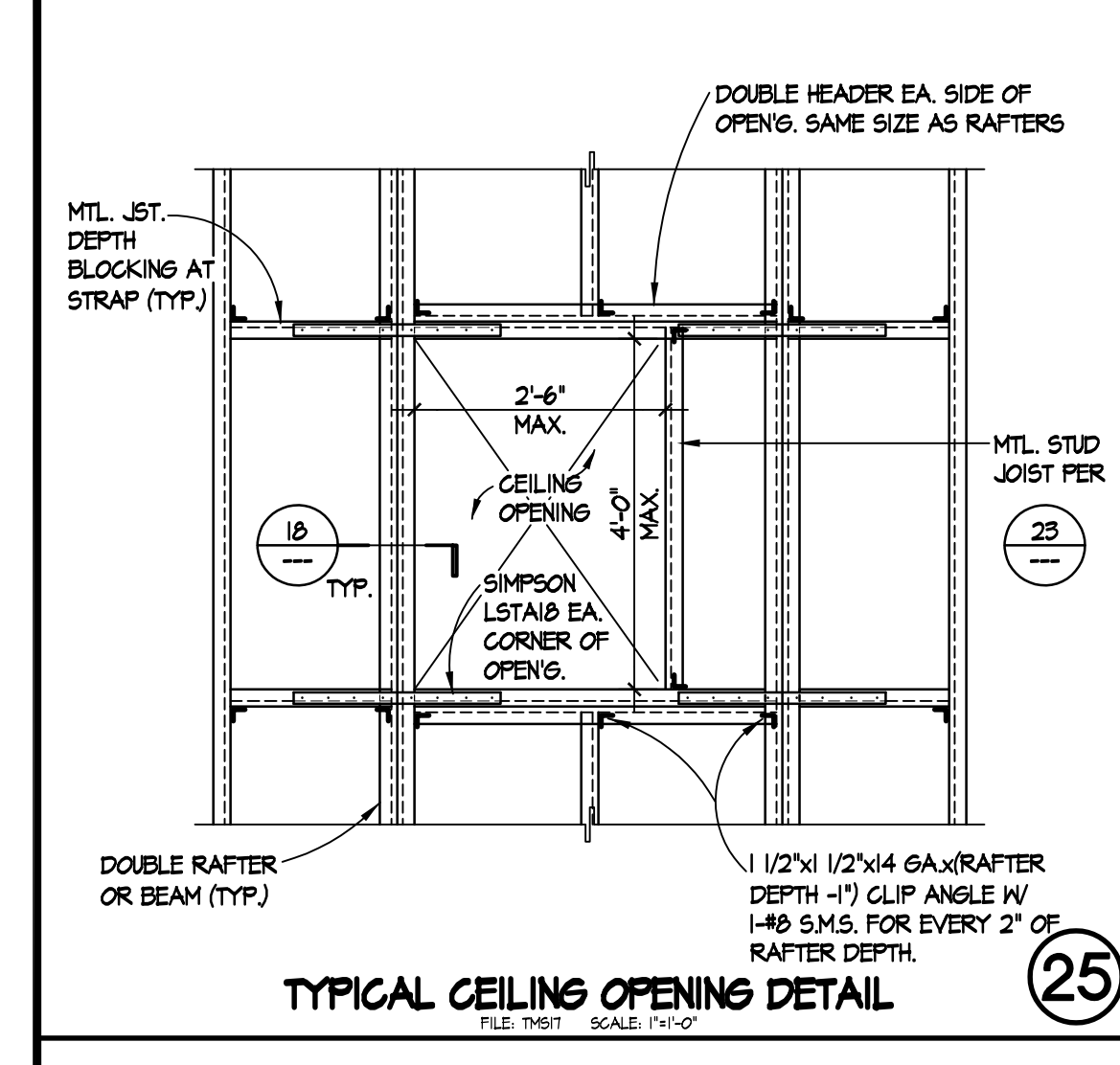
TYPICAL CORNER



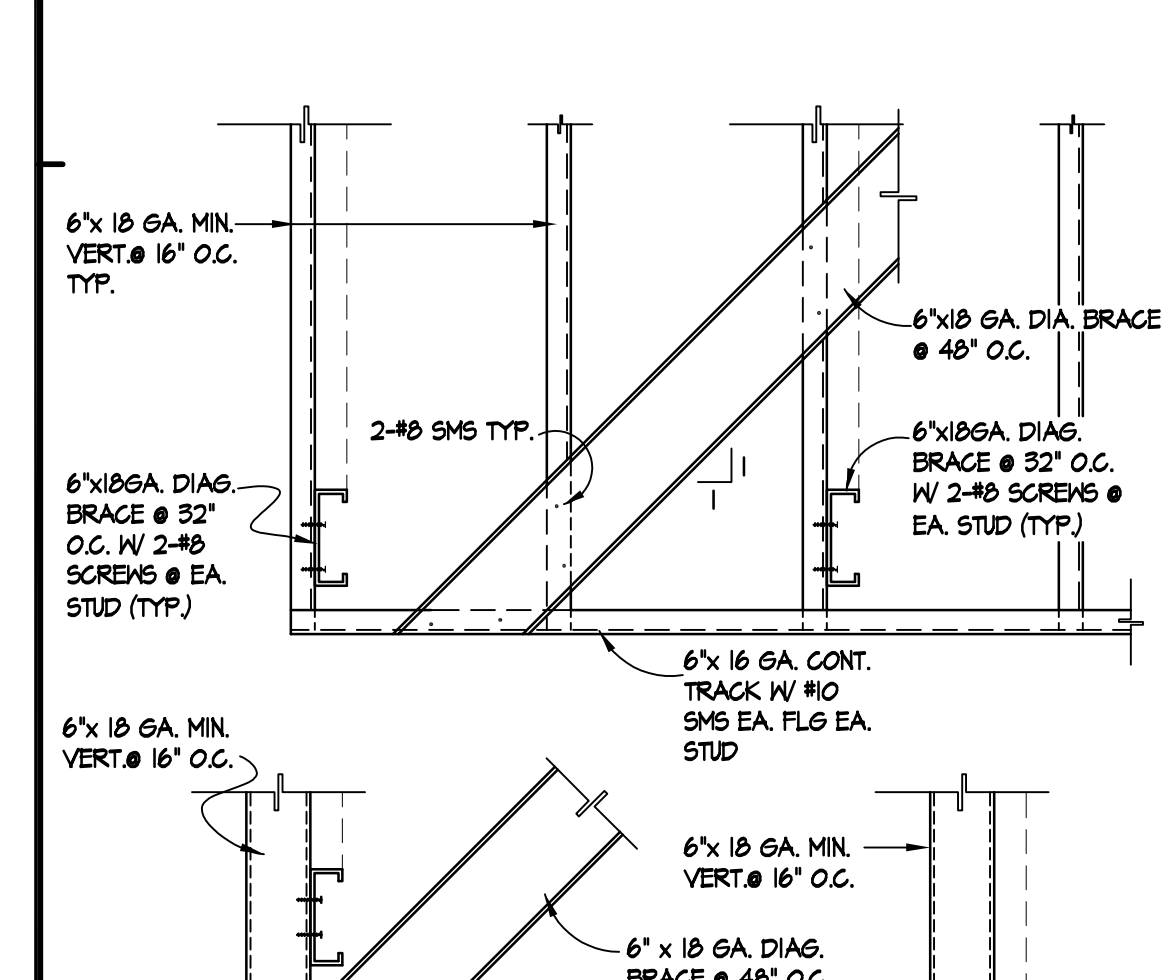
HANGER AT CEILING JOIST DETAIL



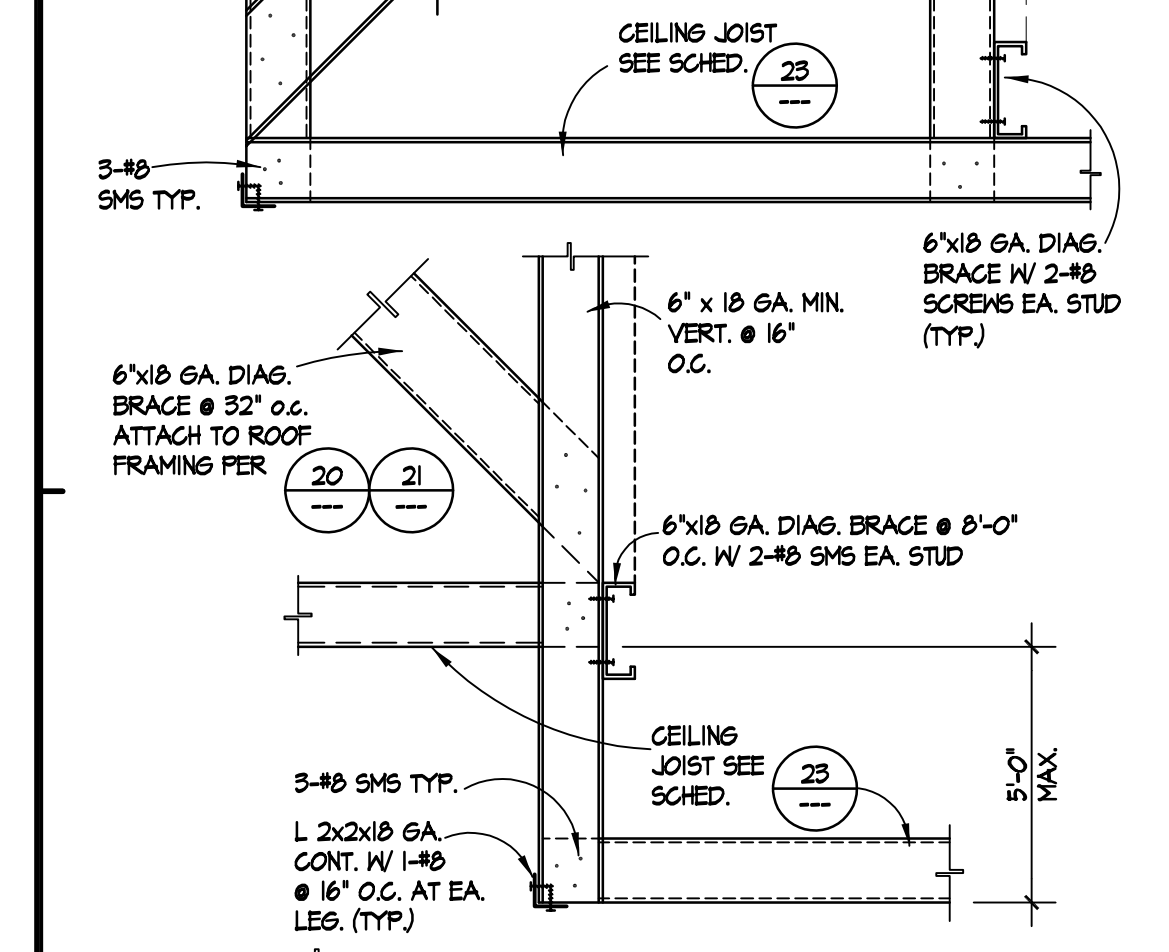
TYP. STUD BRACE ATTACHMENT TO CONG. OVER MTL. DECK



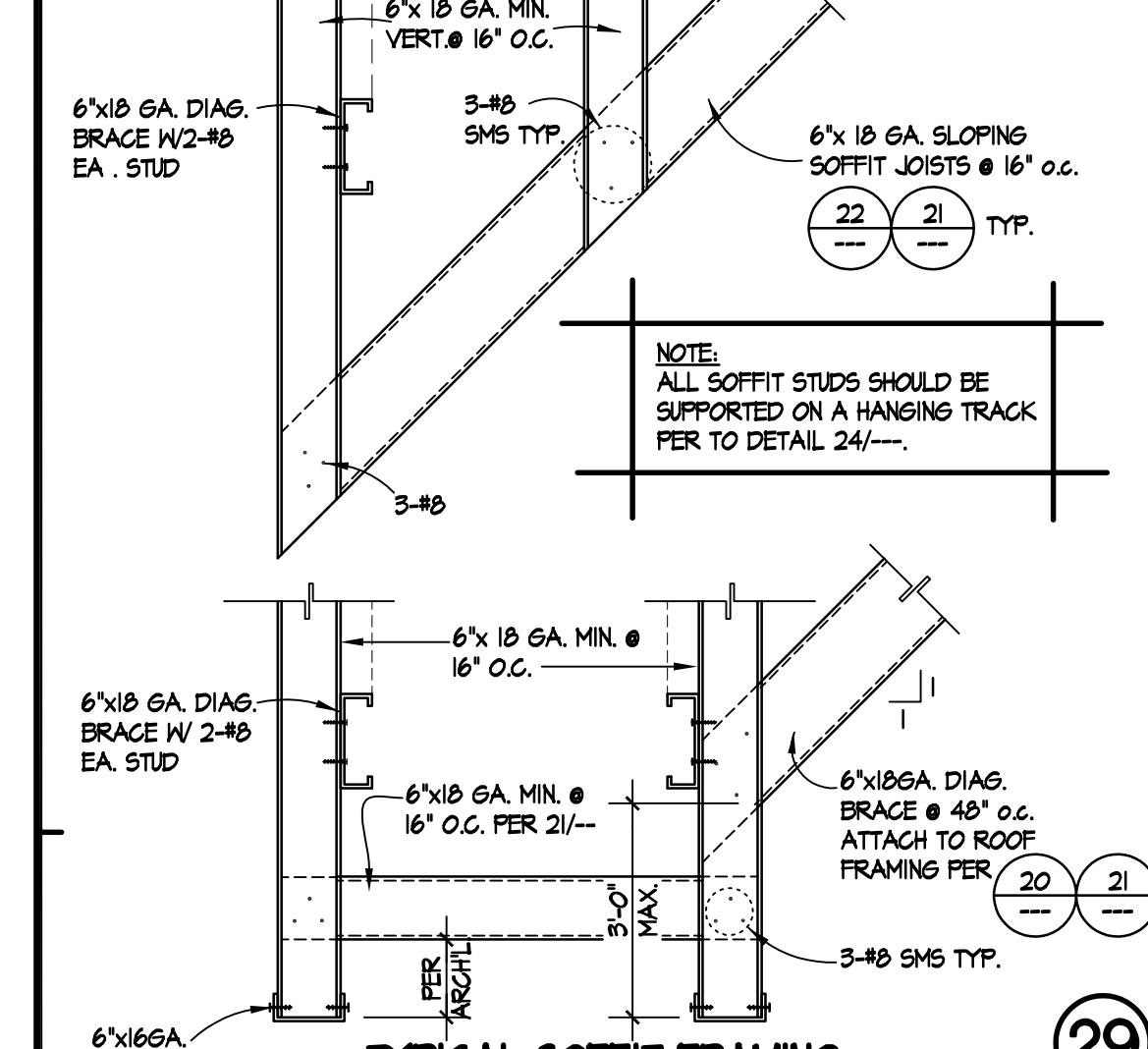
TYPICAL CEILING OPENING DETAIL



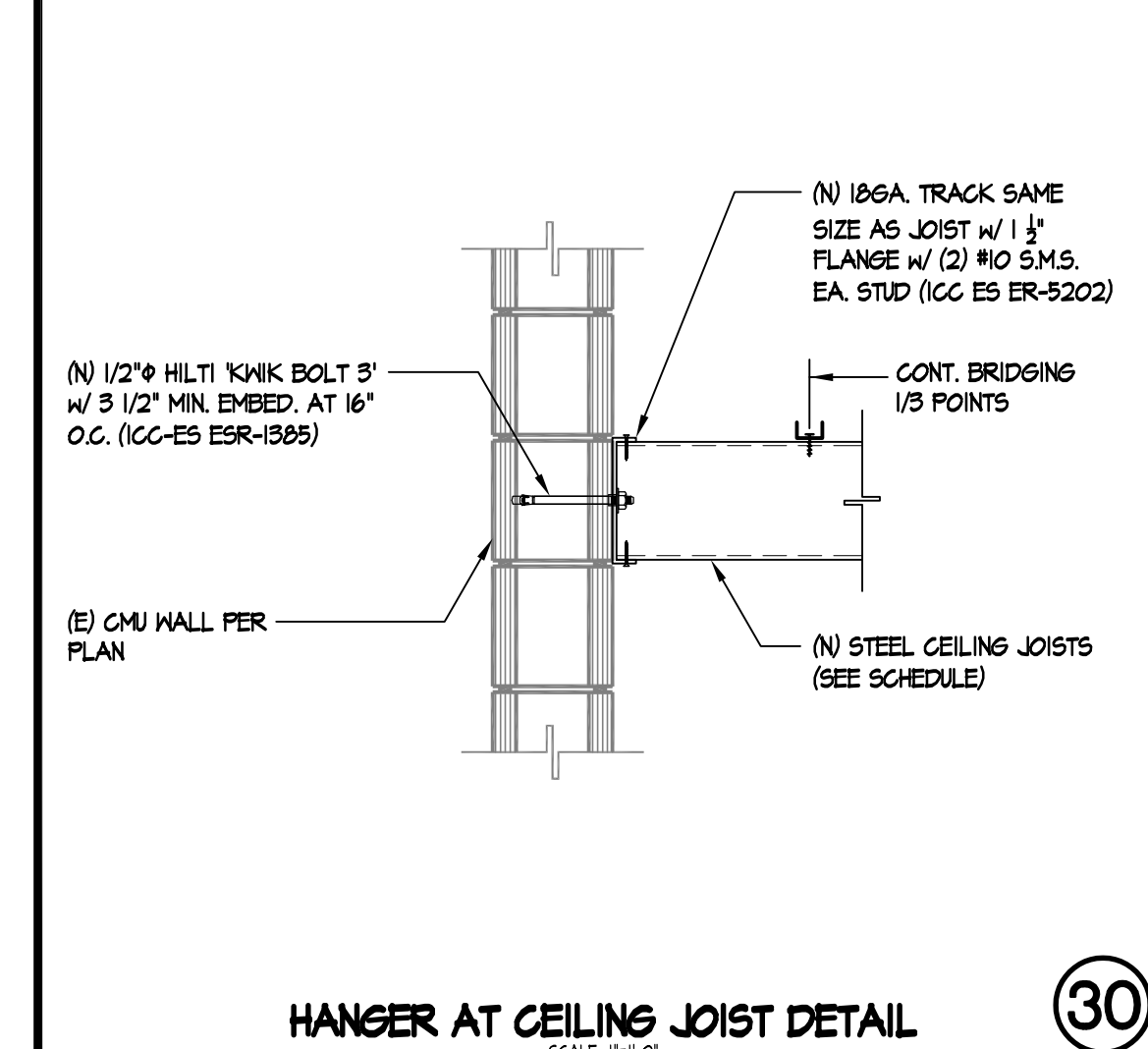
STUD BRIDGING DETAIL



TYPICAL STEEL STUD FRAMING DETAILS



TYPICAL SOFFIT FRAMING



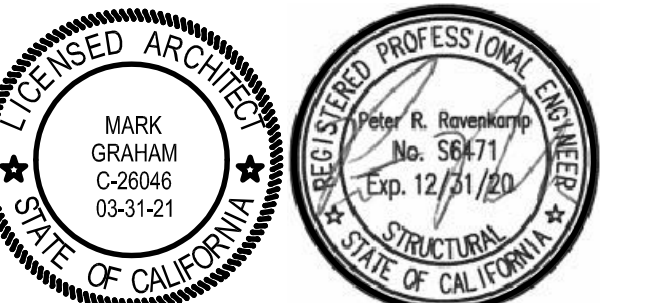
TYPICAL STEEL STUD CEILING JOIST DETAILS AT INTERIOR SYBD. CEILINGS



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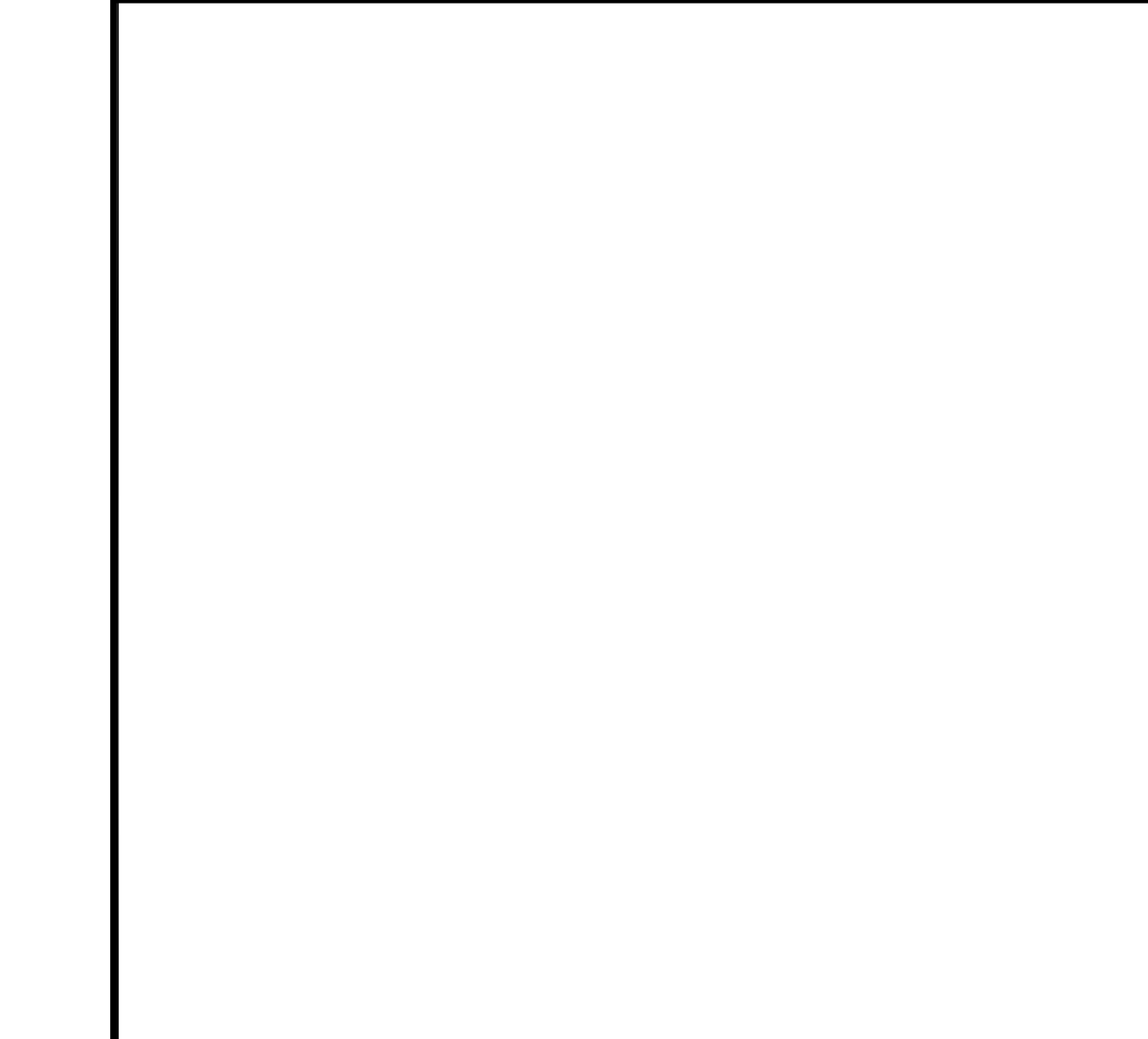
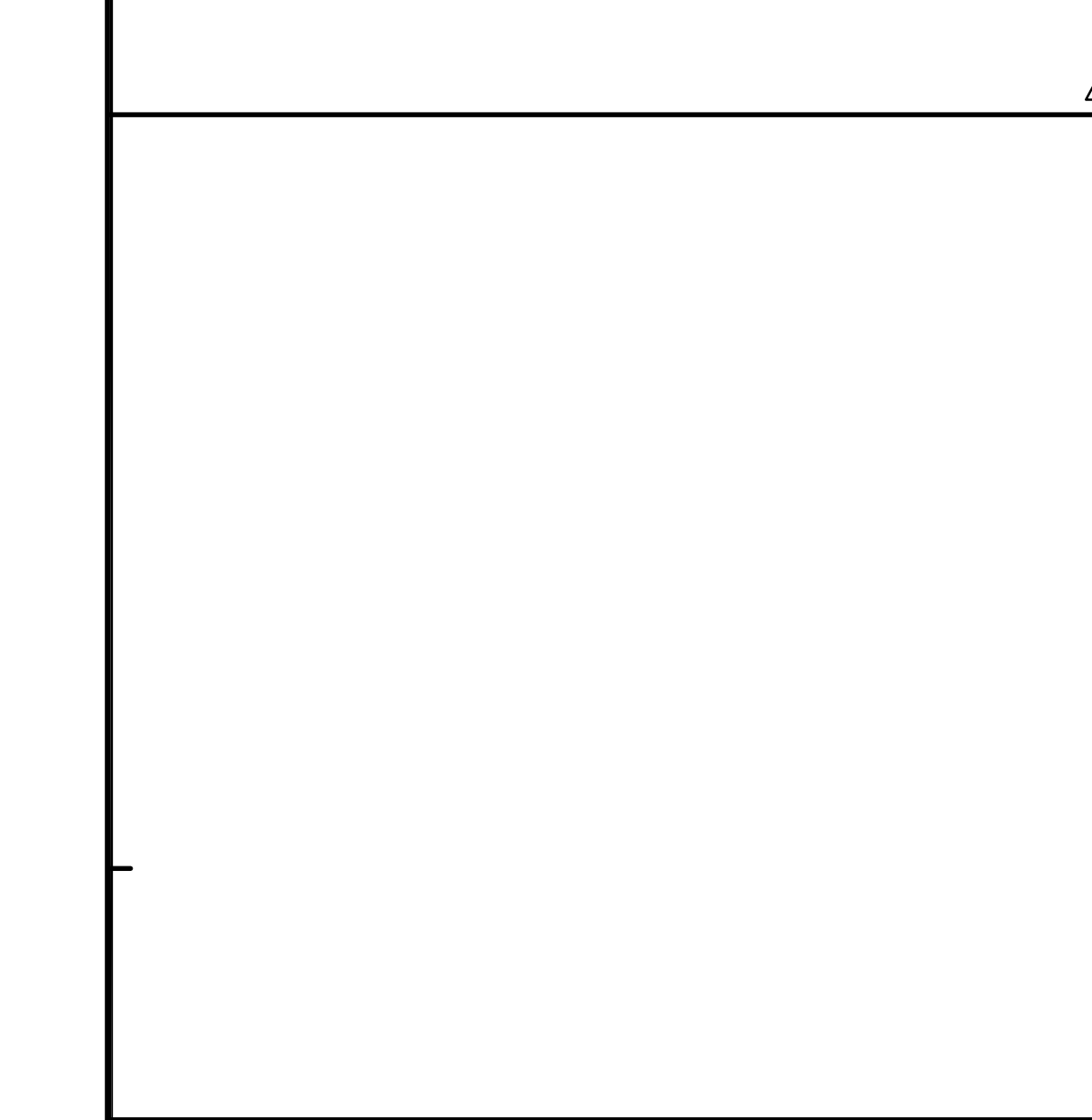
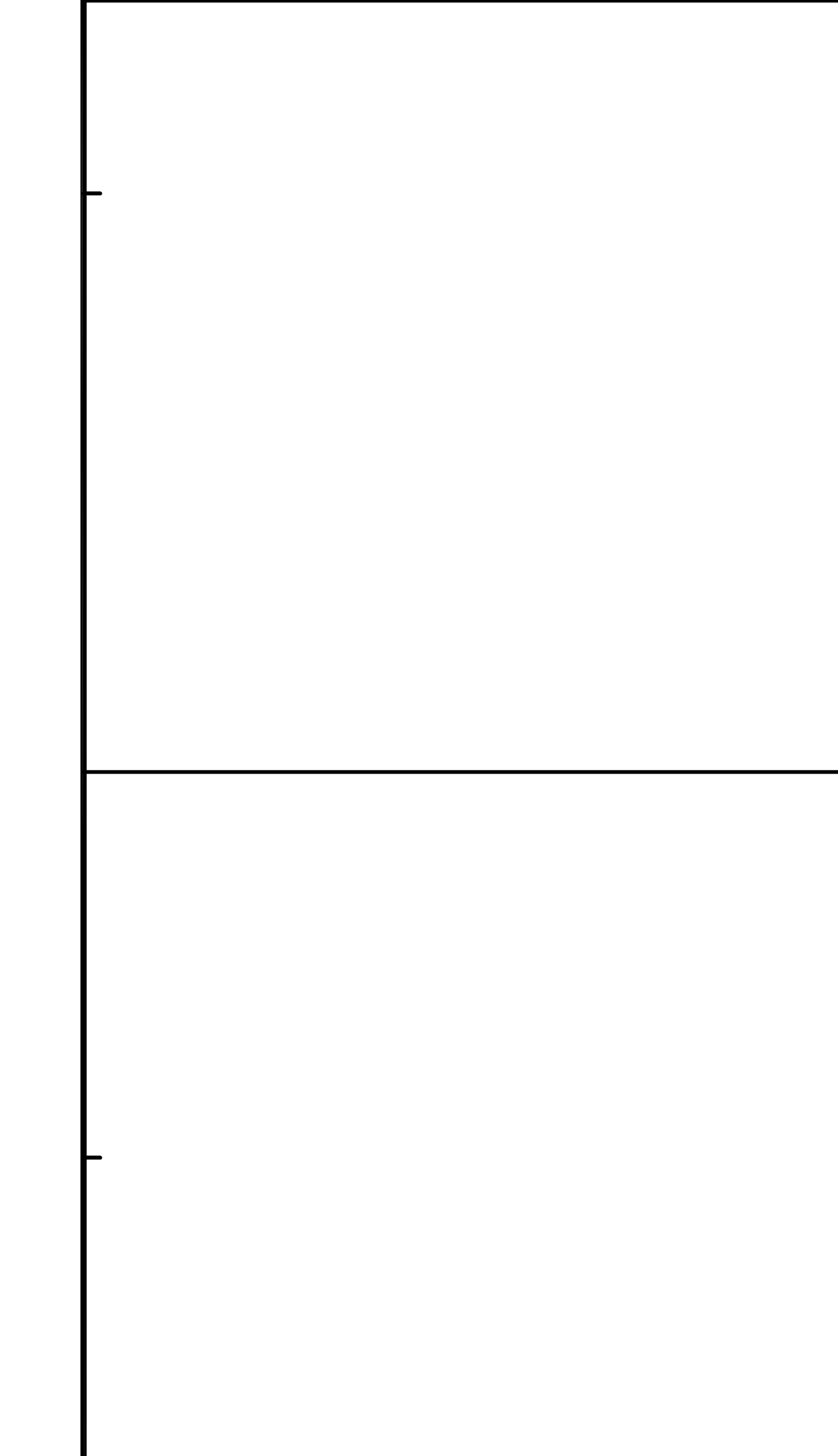
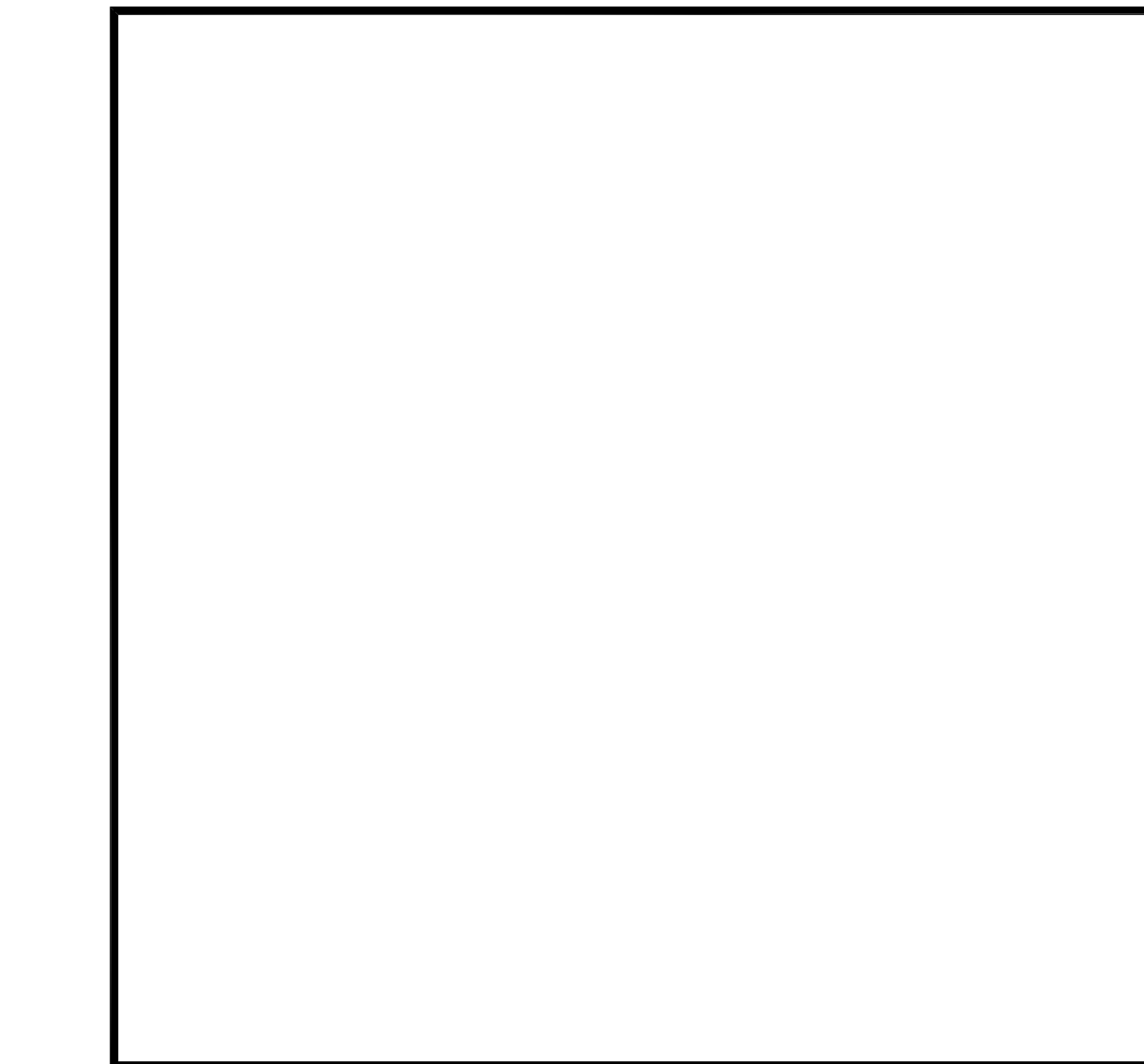
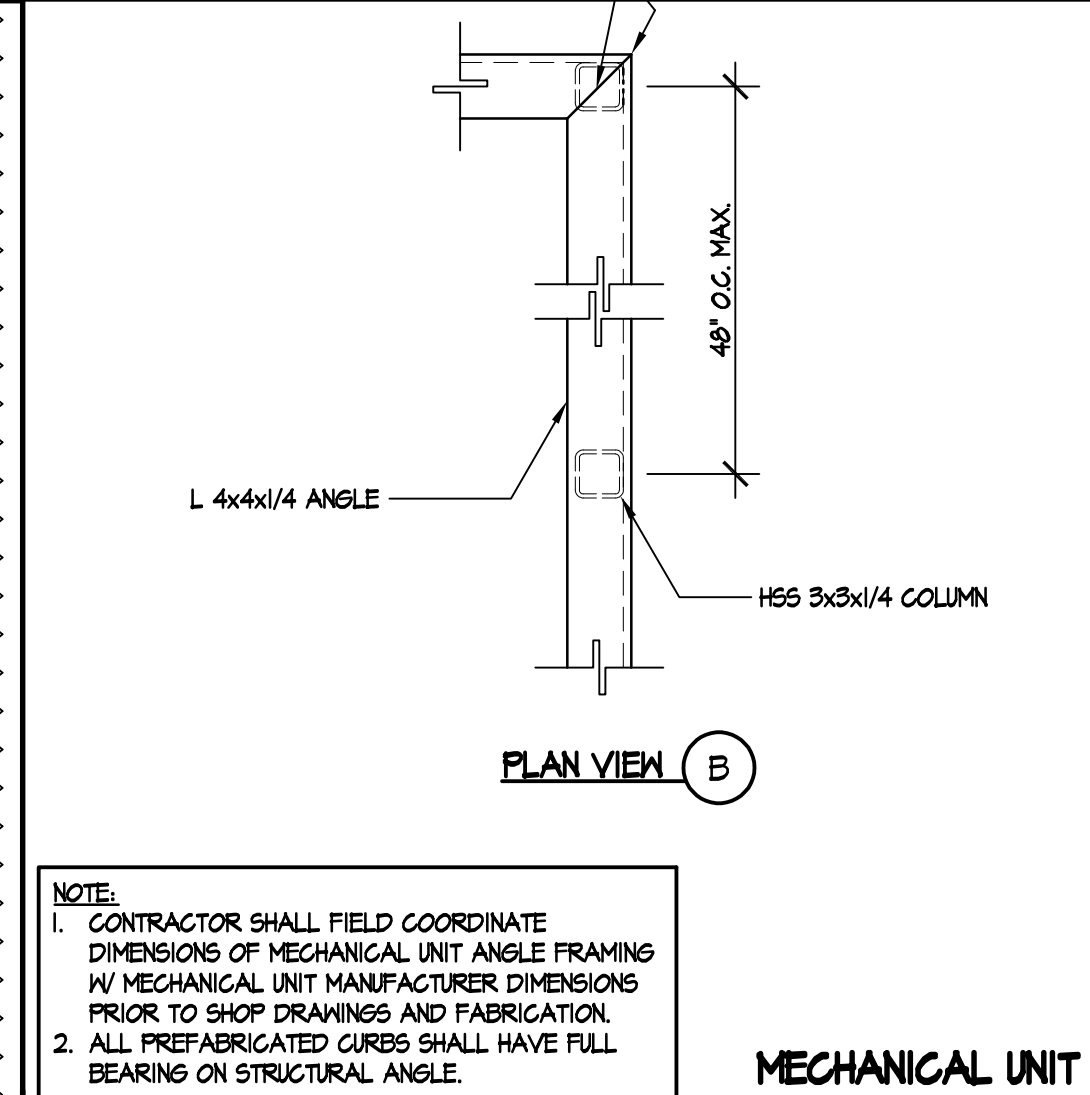
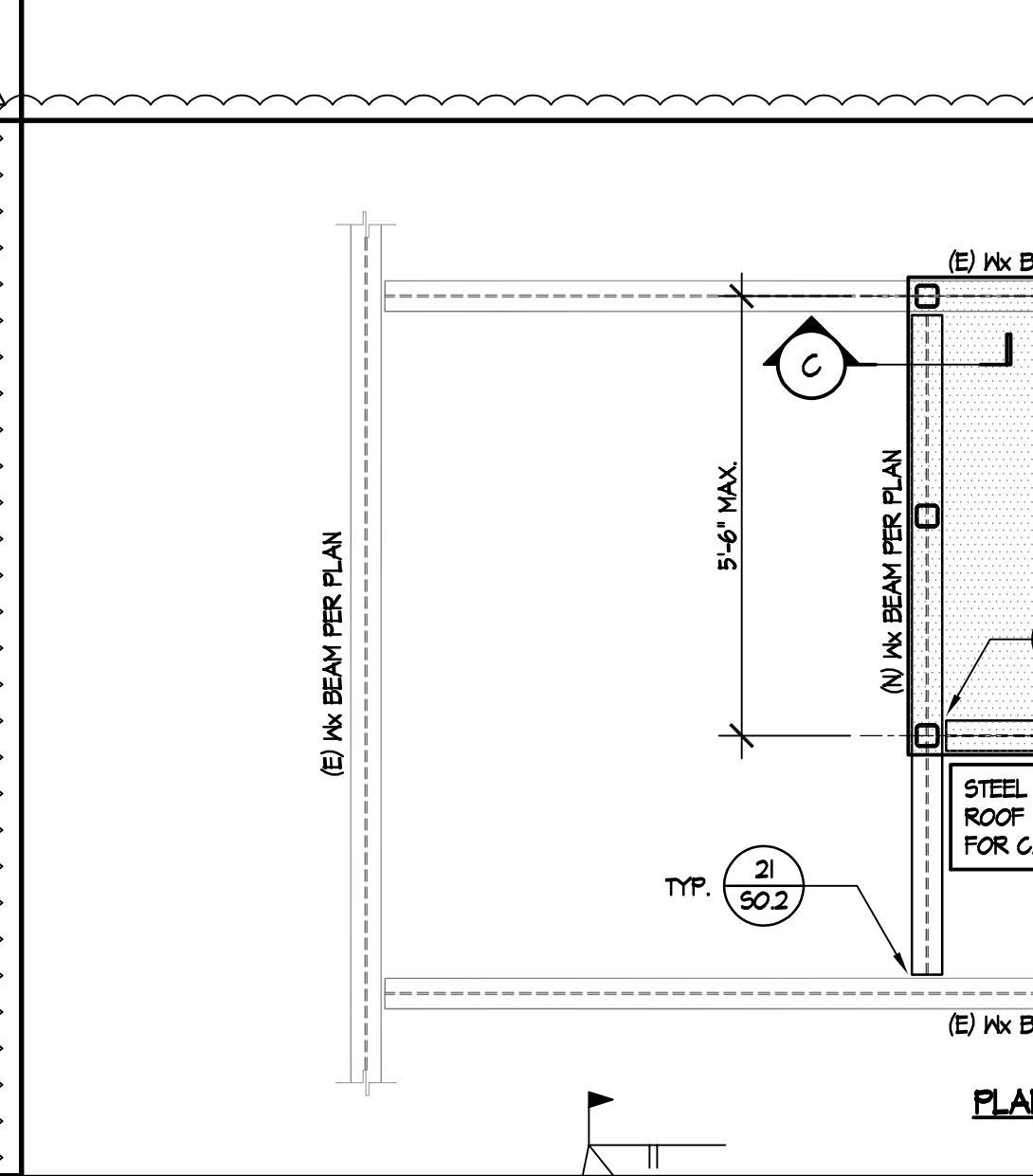
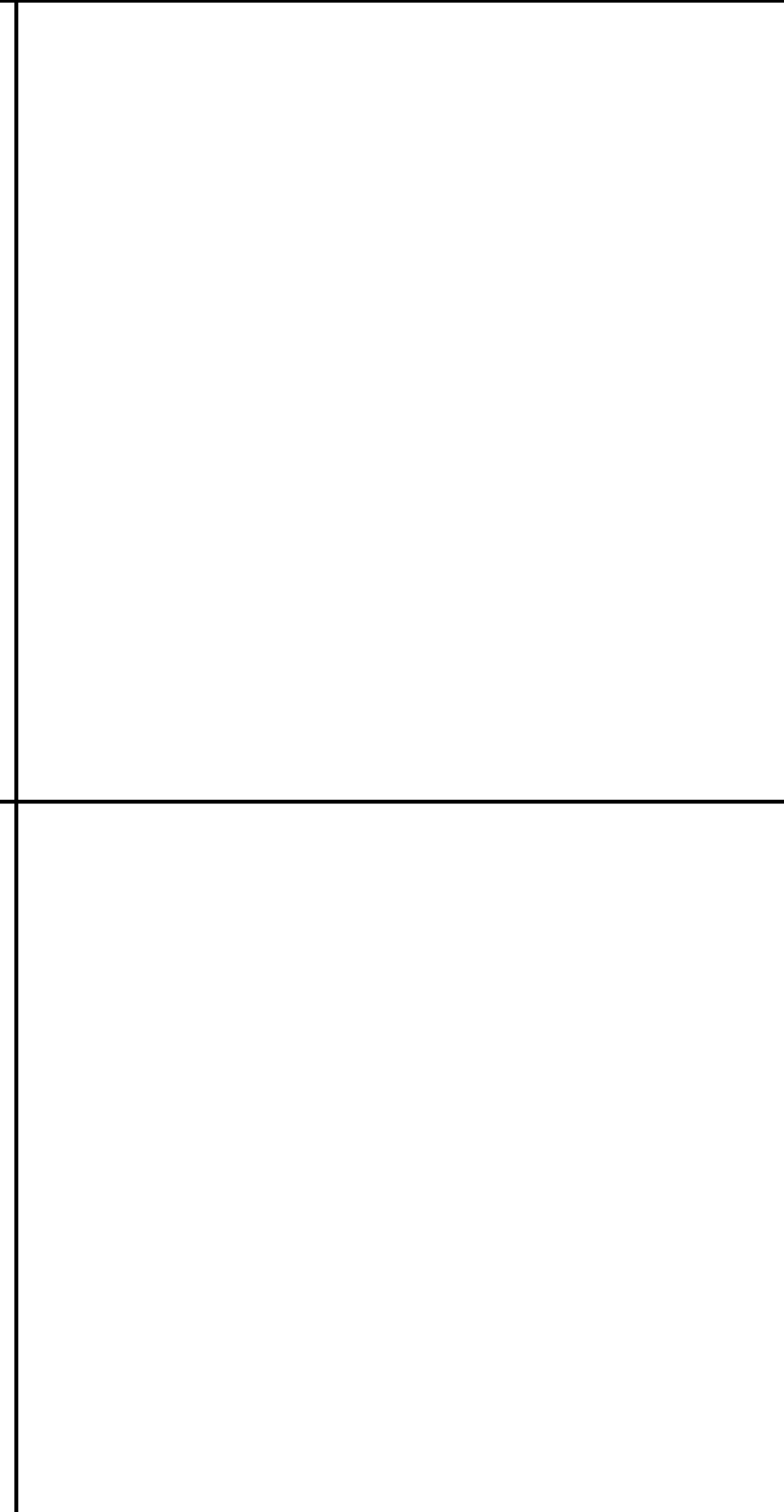
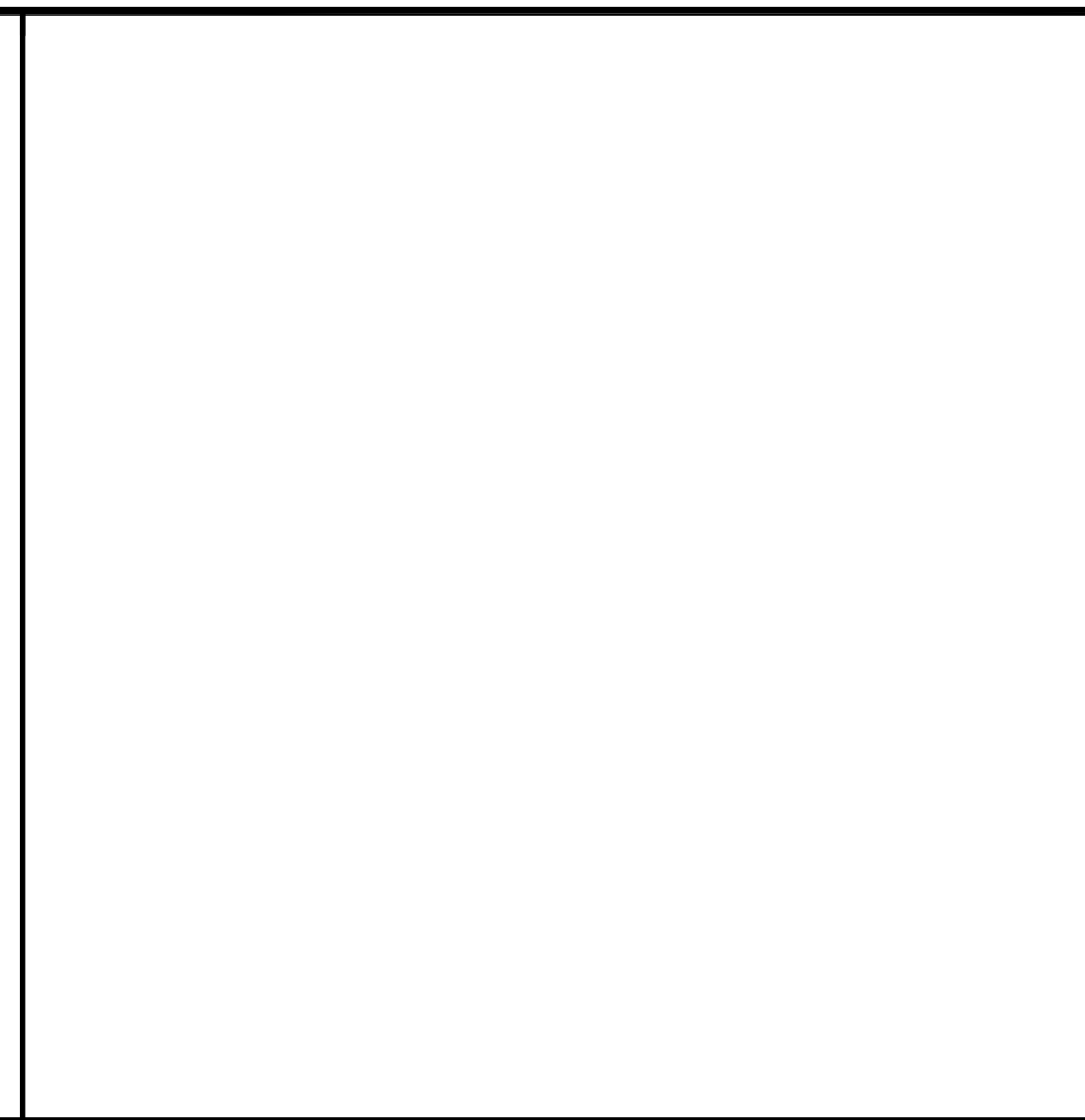
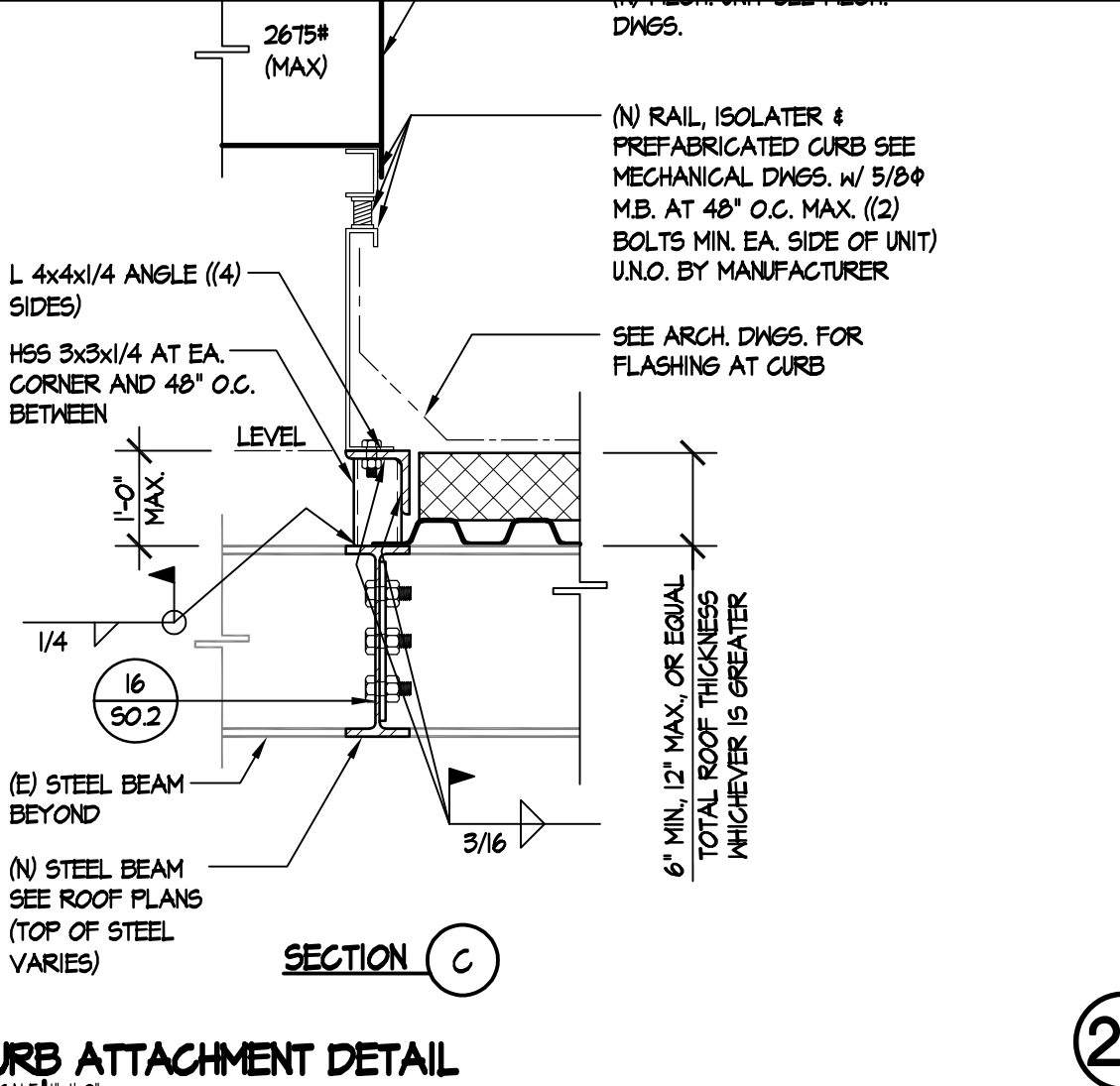
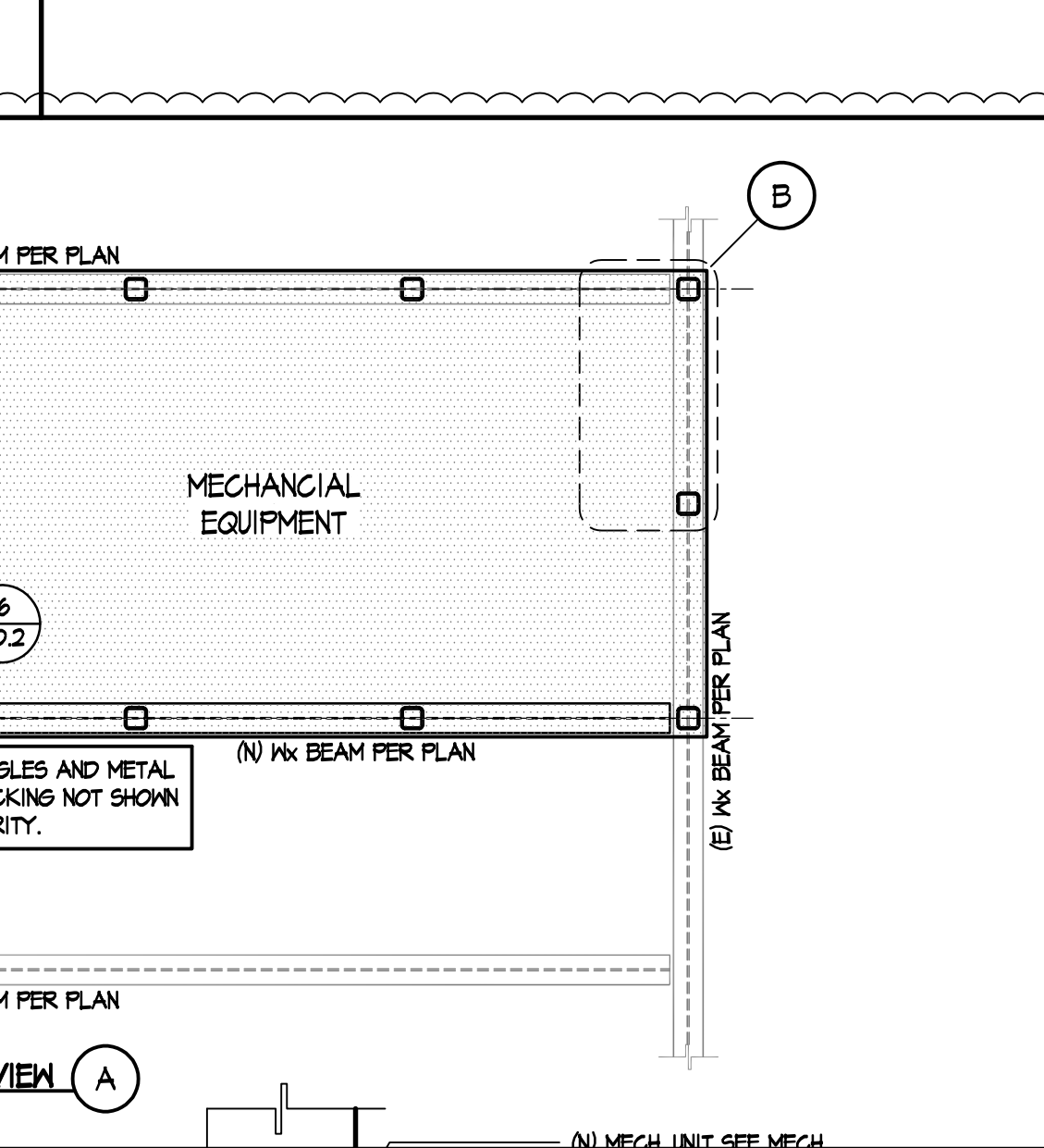
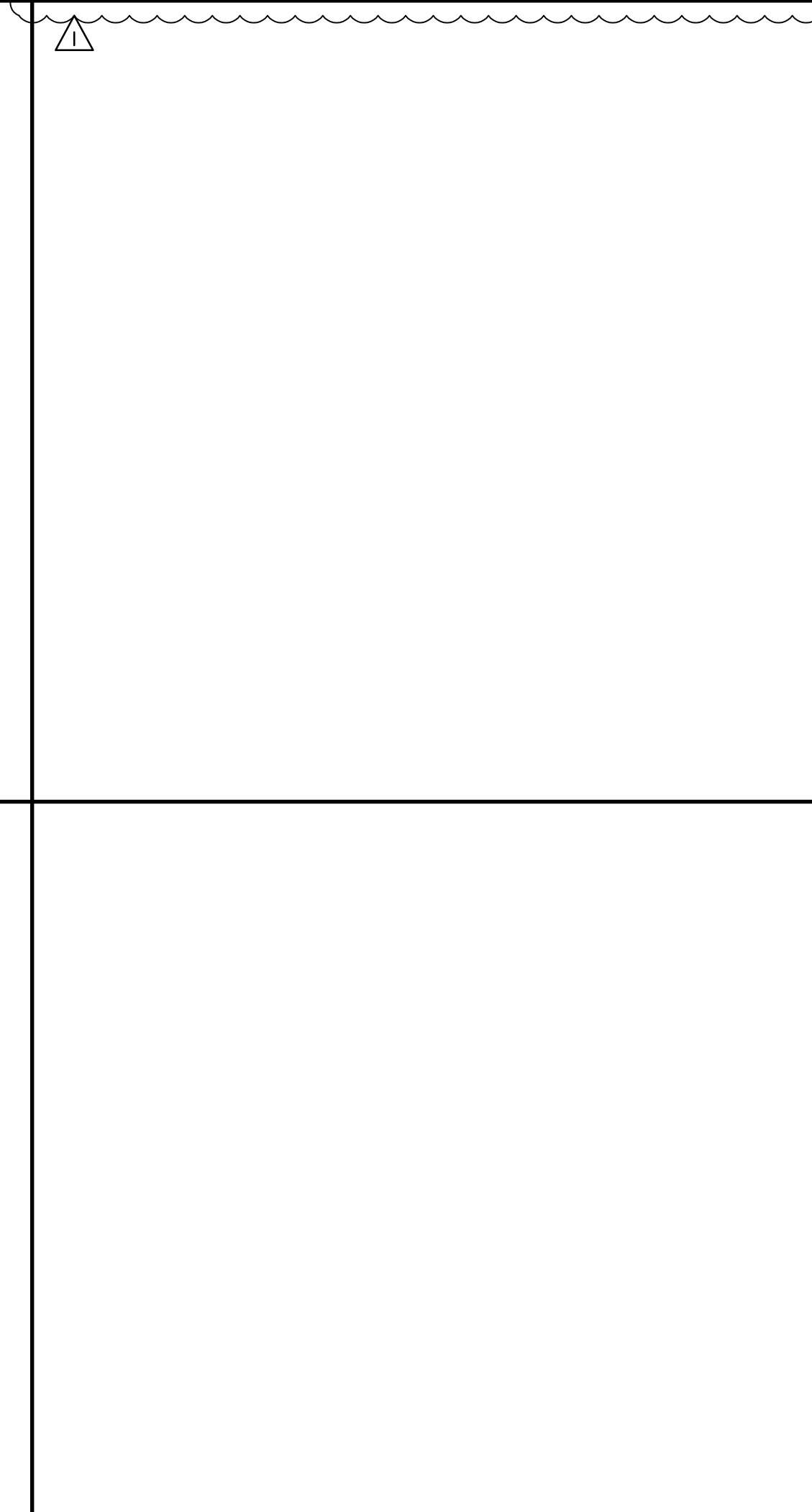
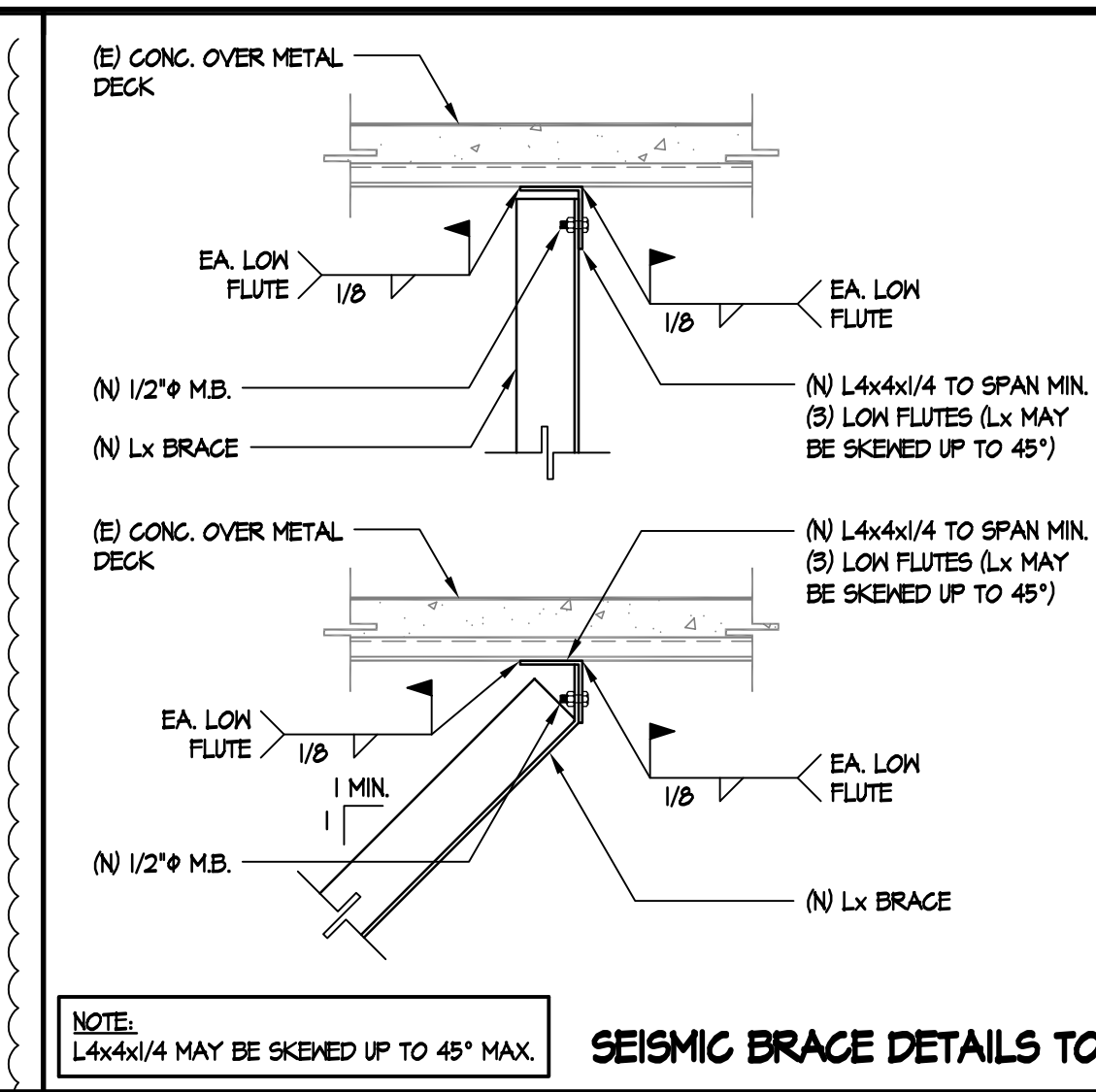
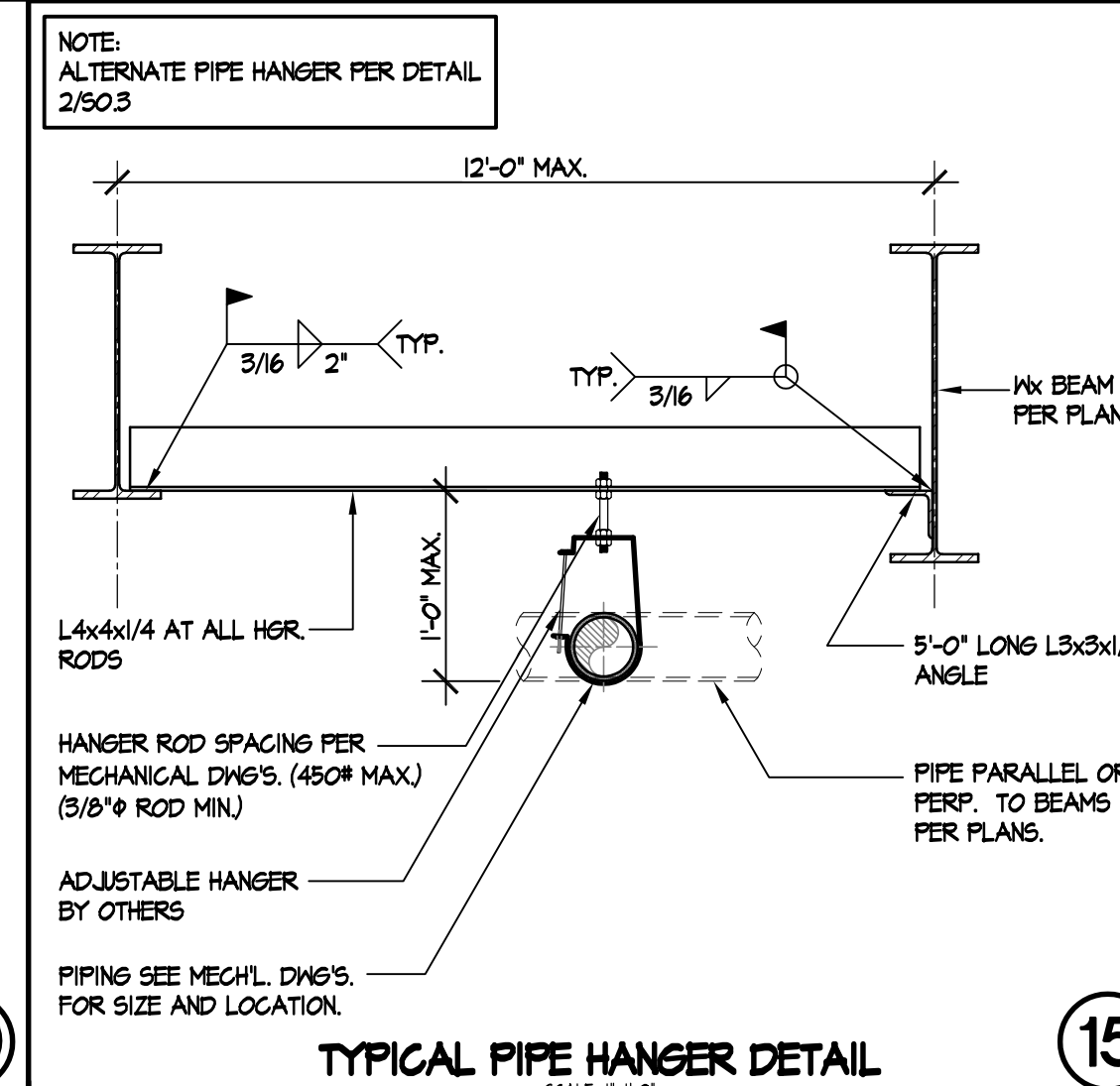
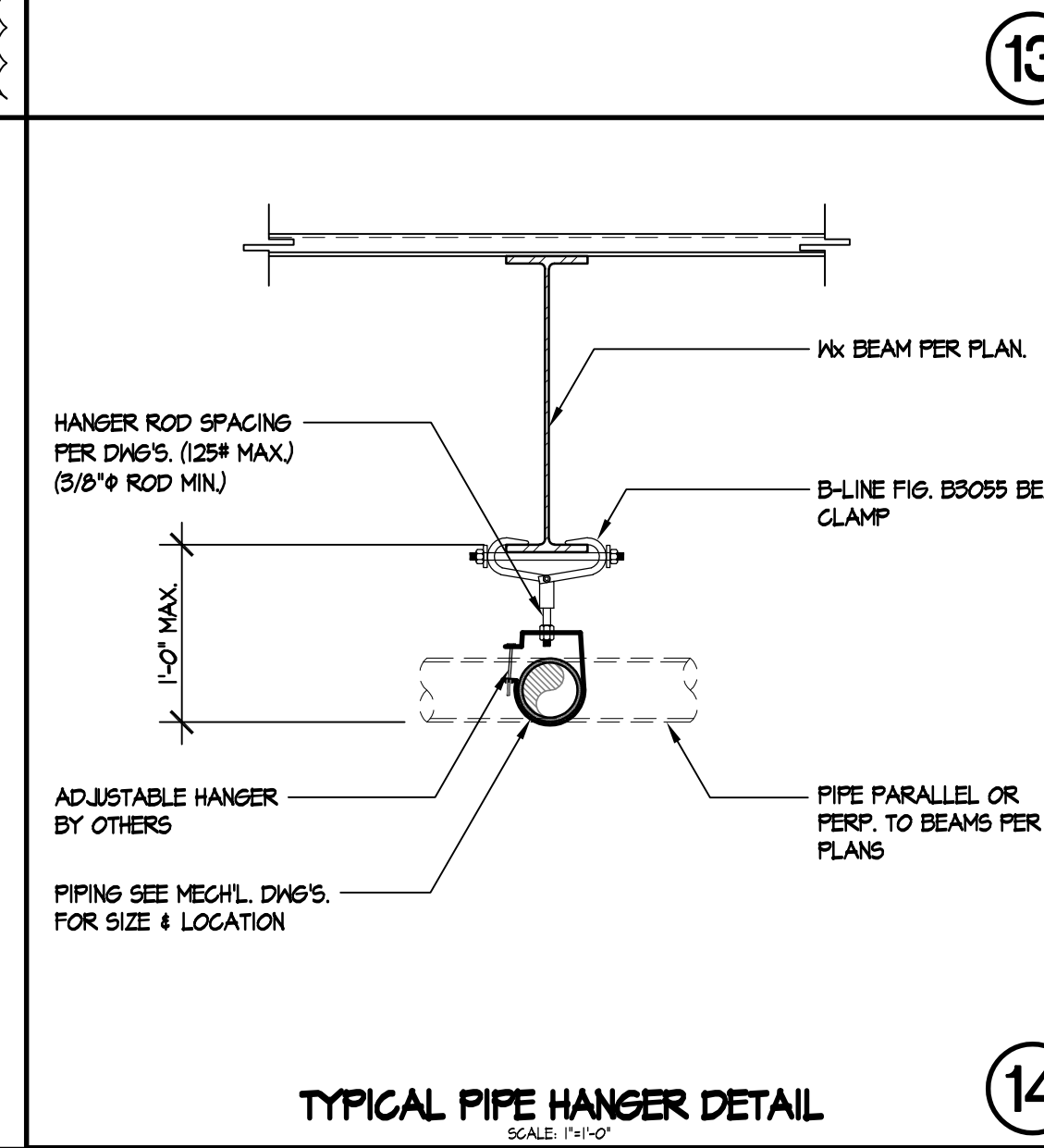
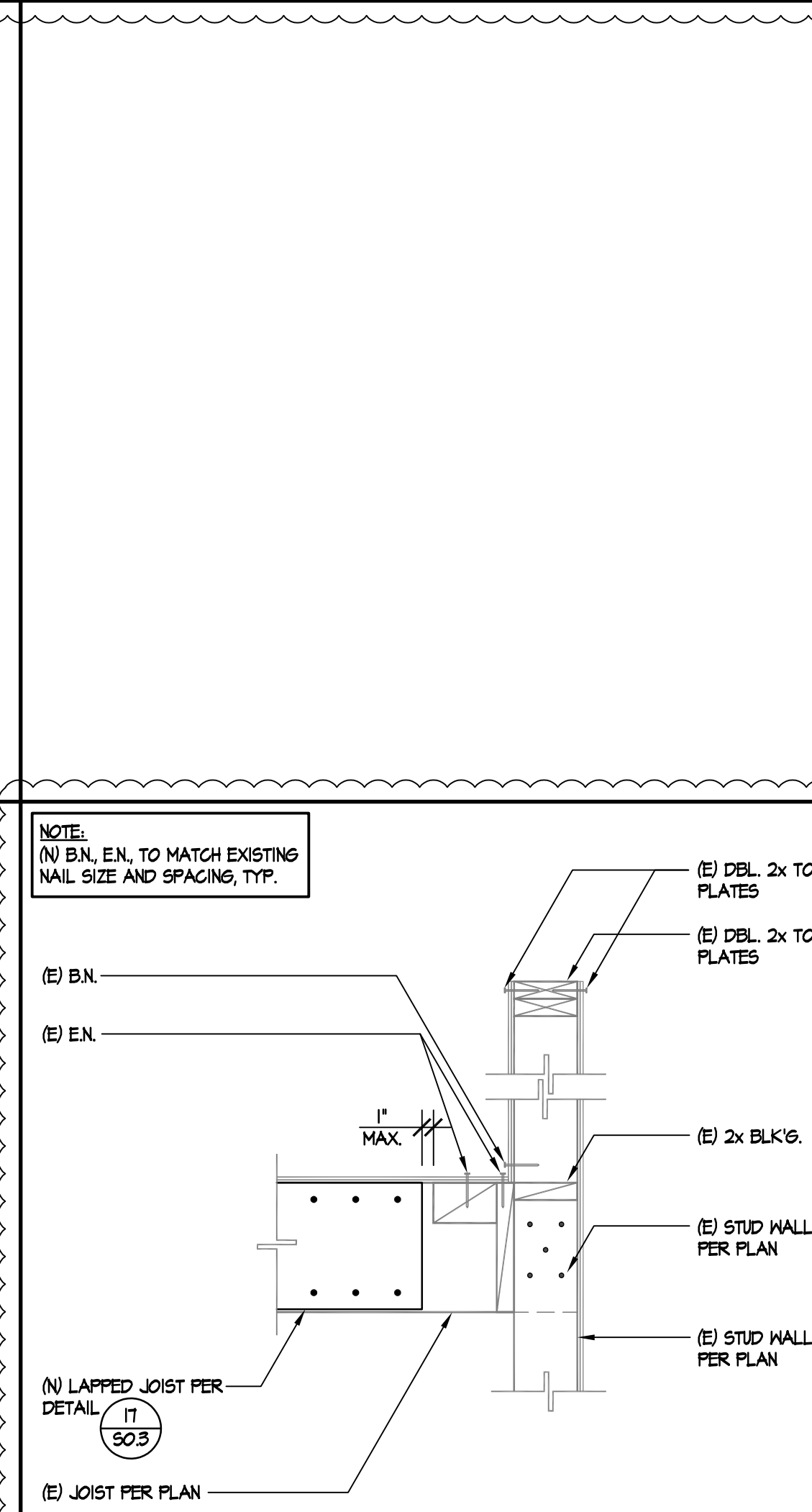
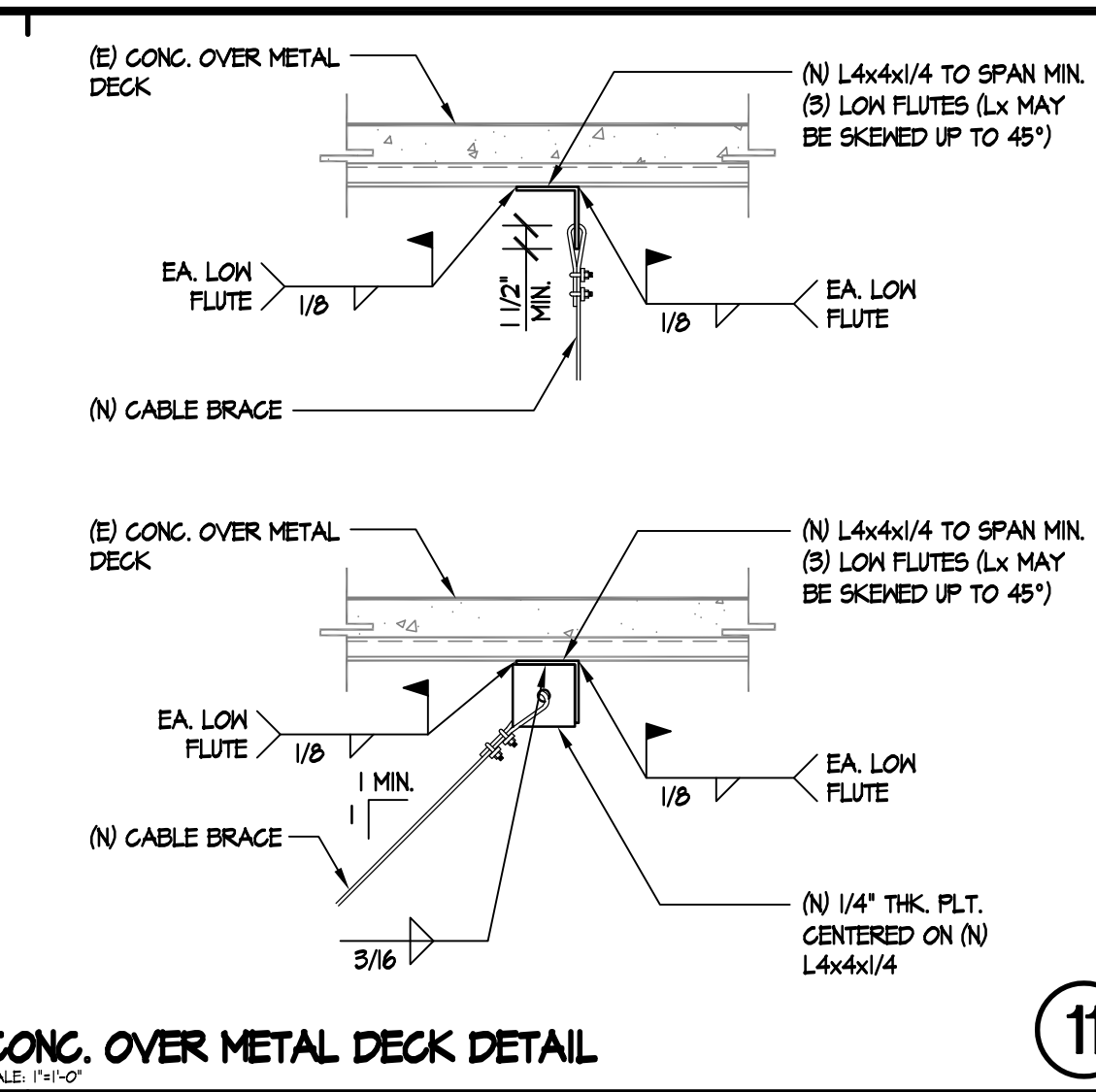
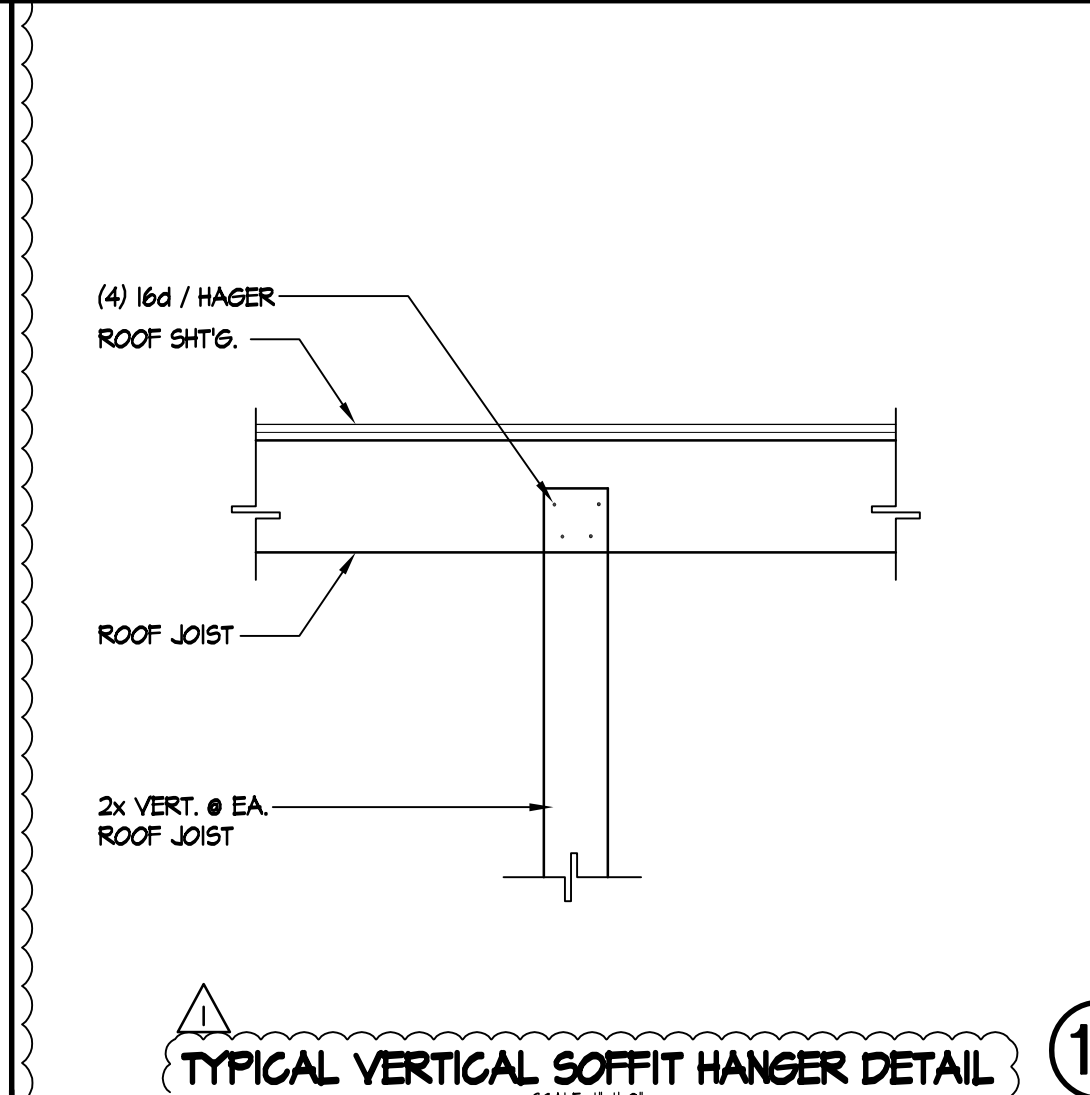
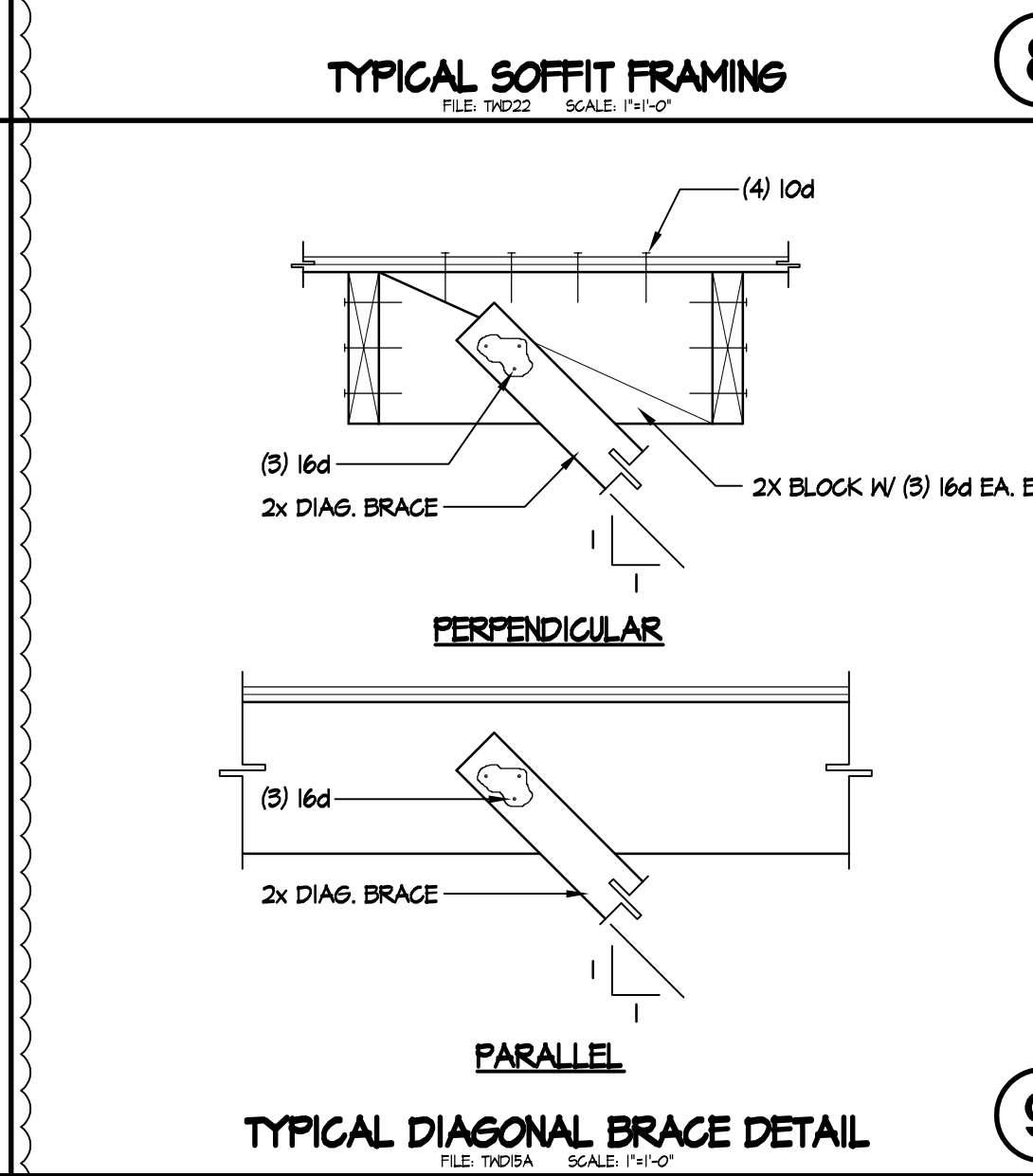
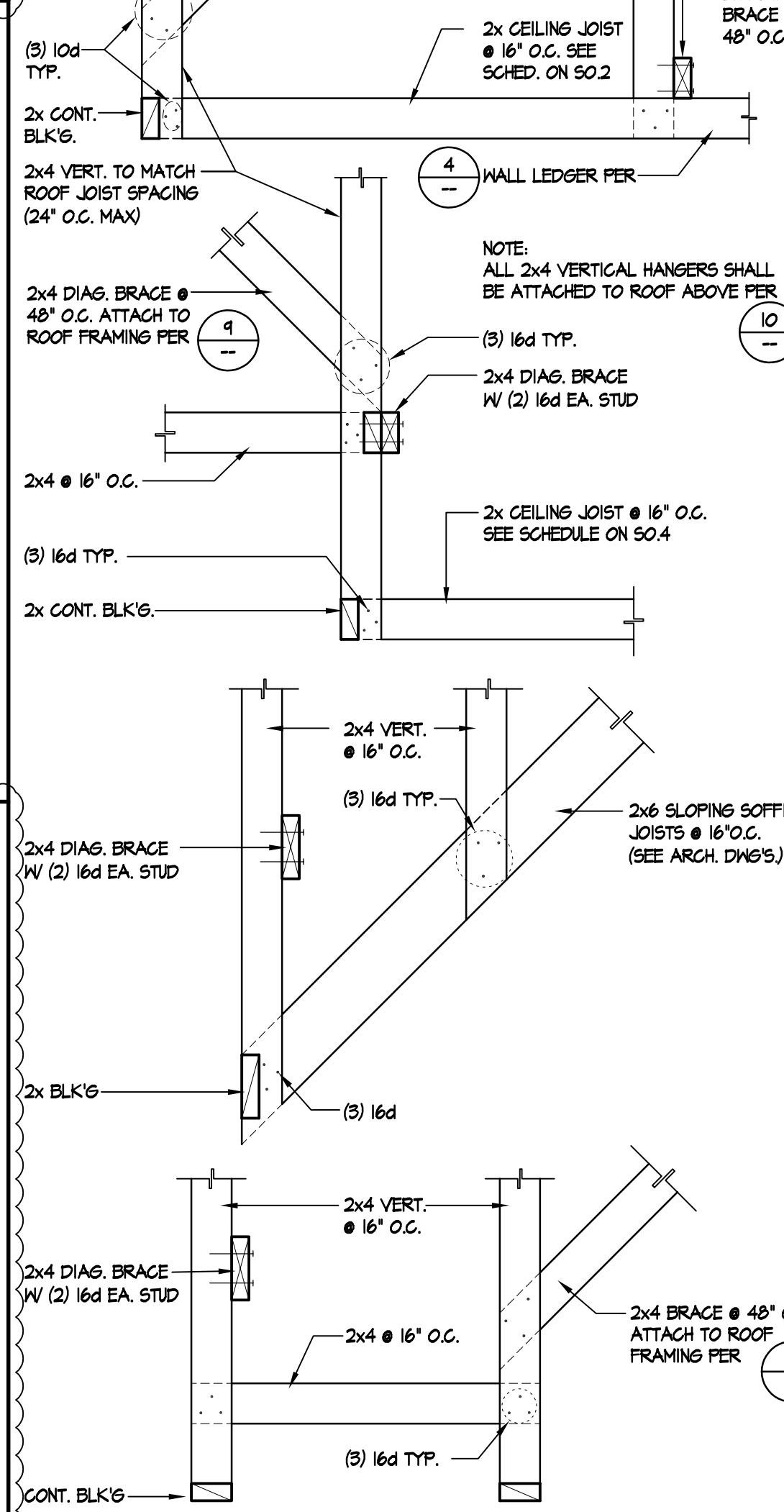
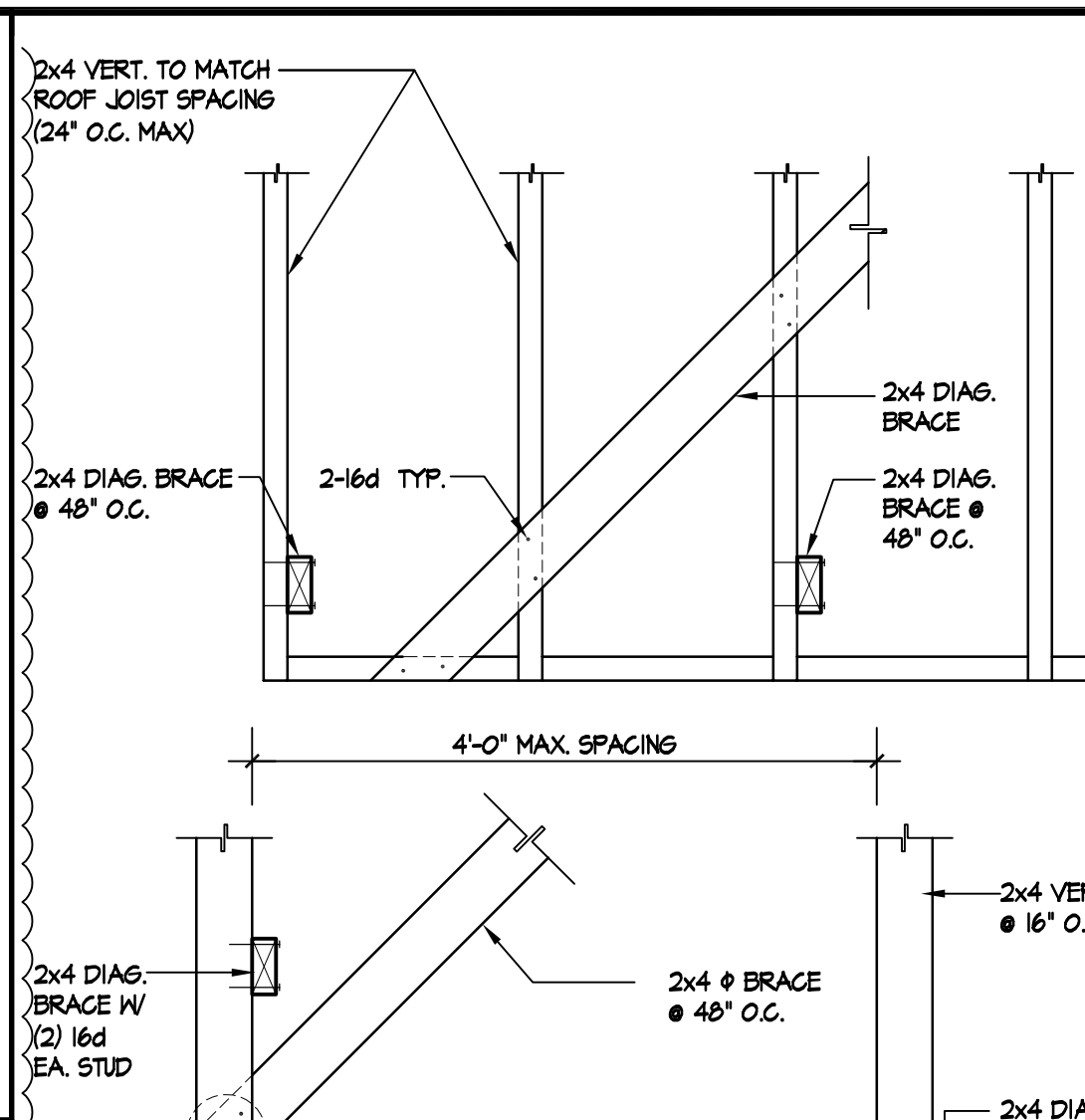
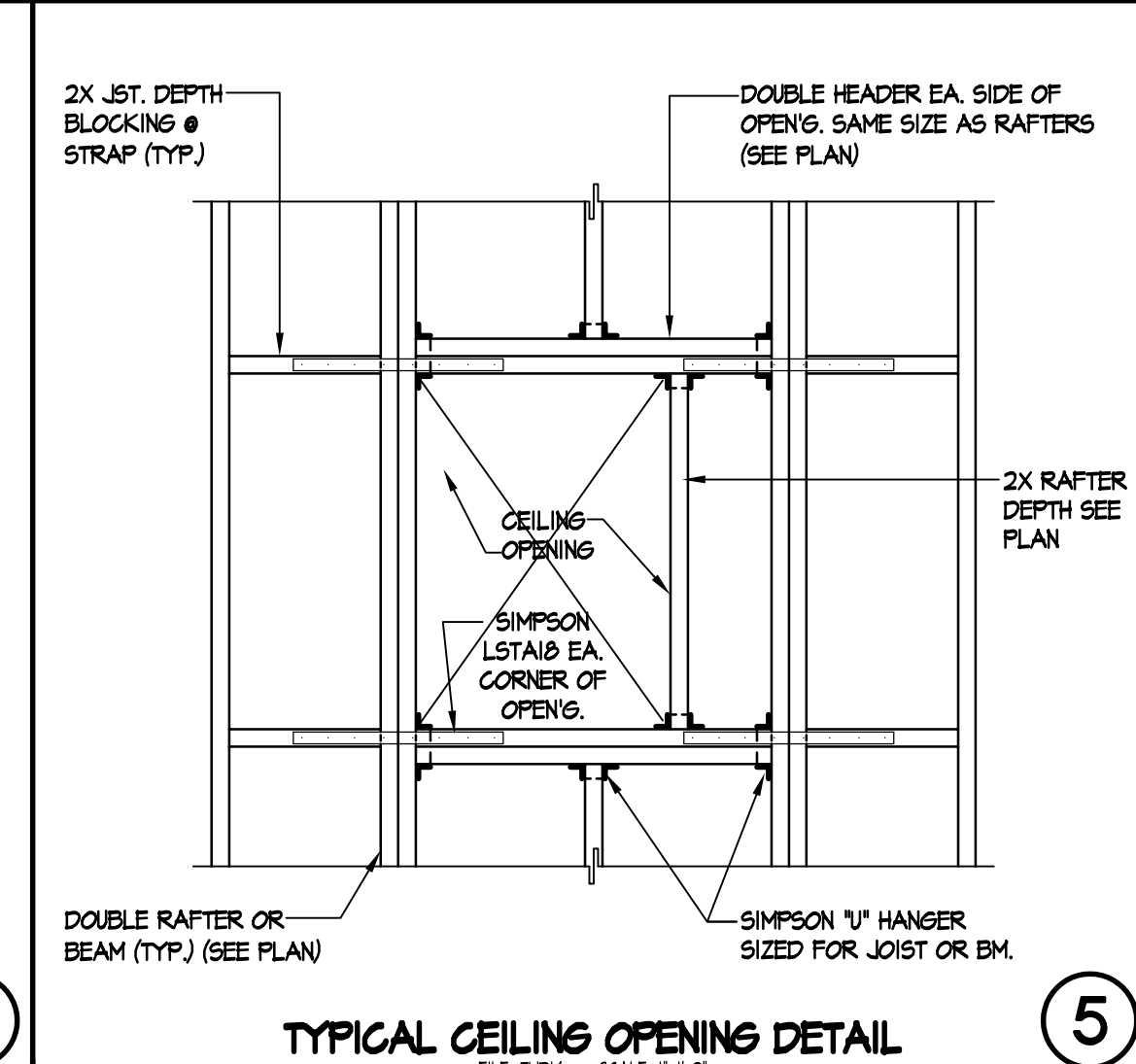
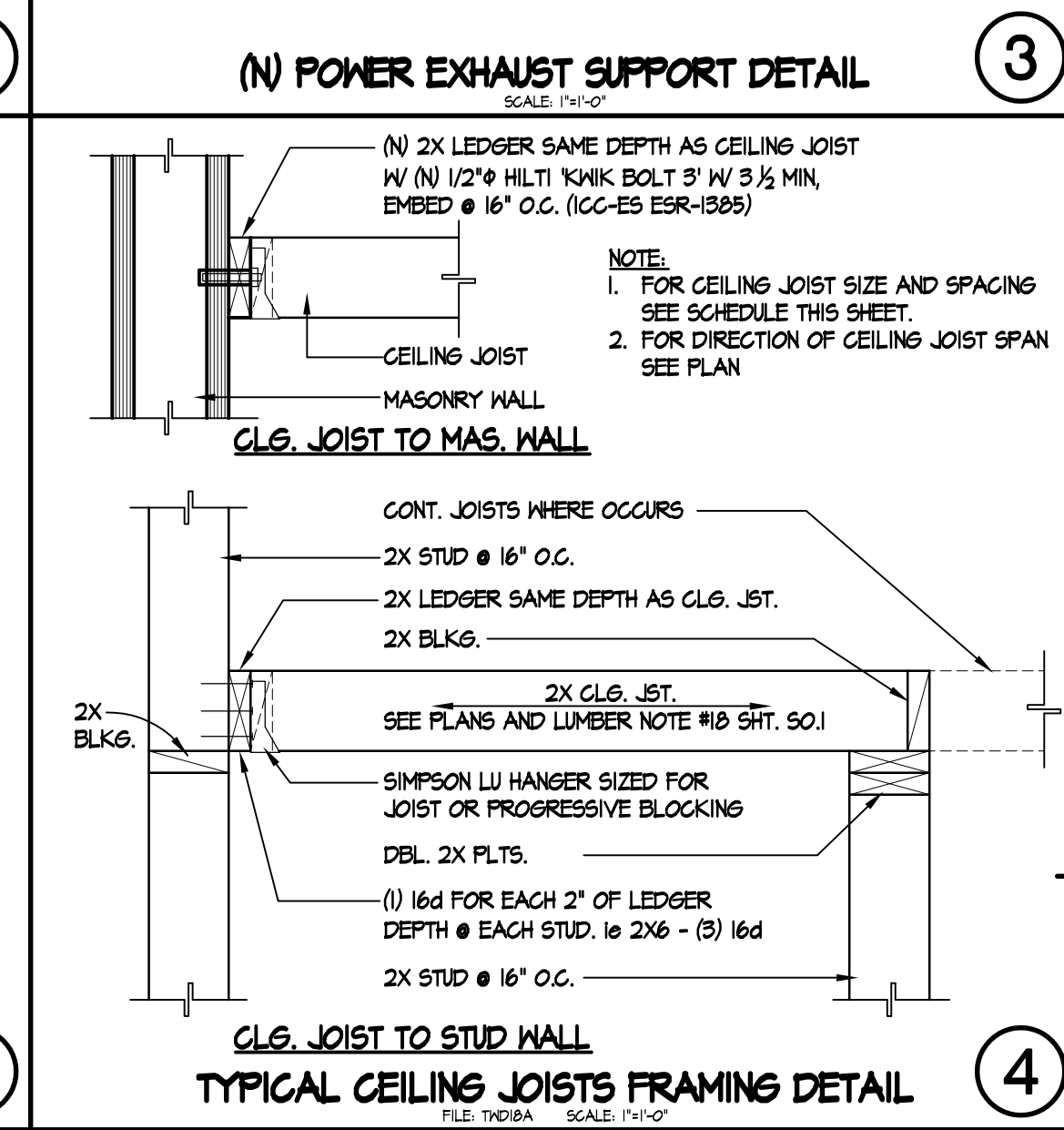
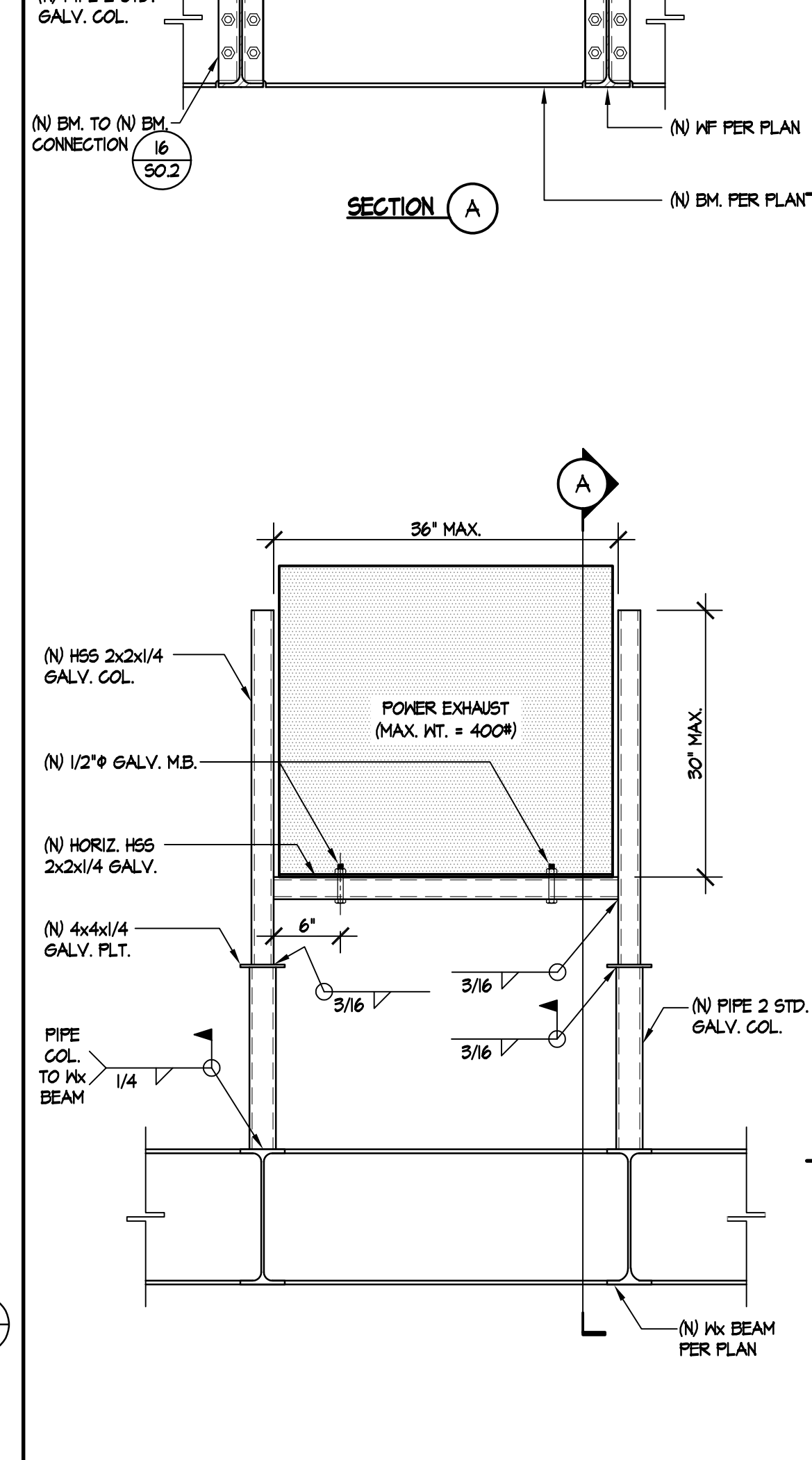
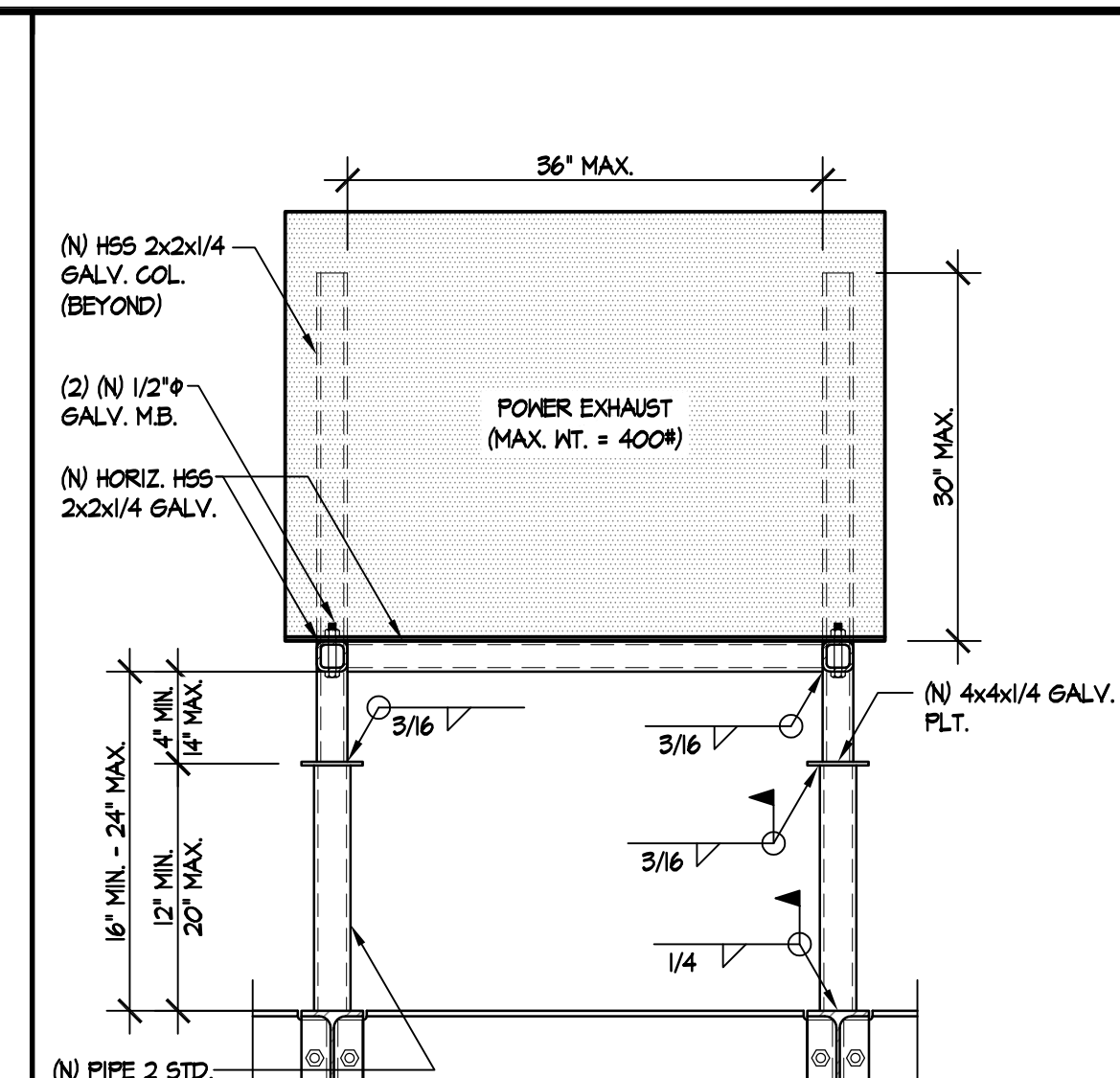
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1	8/25/20	ME	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN:	CHECKED:
DATE: 12/08/2019	SCALE: N.T.S.
PROJECT NUMBER: 20-19-06	

DETAILS

DRAWING NUMBER: **S0.5**

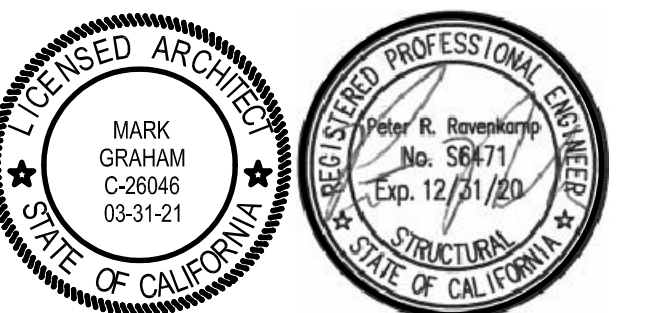


NOTE:
1. CONTRACTOR SHALL FIELD COORDINATE DIMENSIONS OF MECHANICAL UNIT ANGLE FRAMING W/ MECHANICAL UNIT MANUFACTURER DIMENSIONS PRIOR TO SHOP DRAWINGS AND FABRICATION.
2. ALL PREFABRICATED CURBS SHALL HAVE FULL BEARING ON STRUCTURAL ANGLE.



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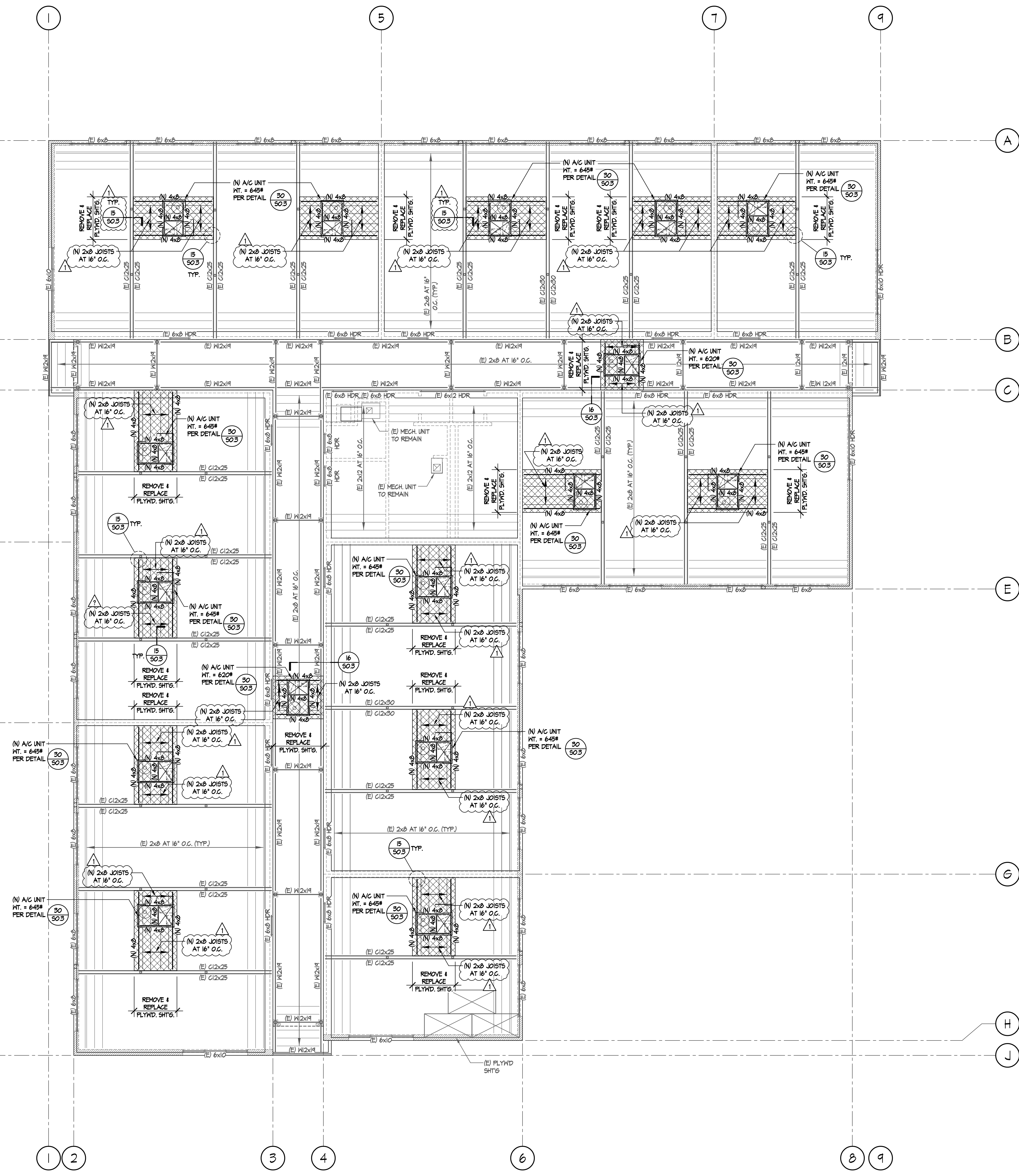
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ROOF FRAMING NOTES

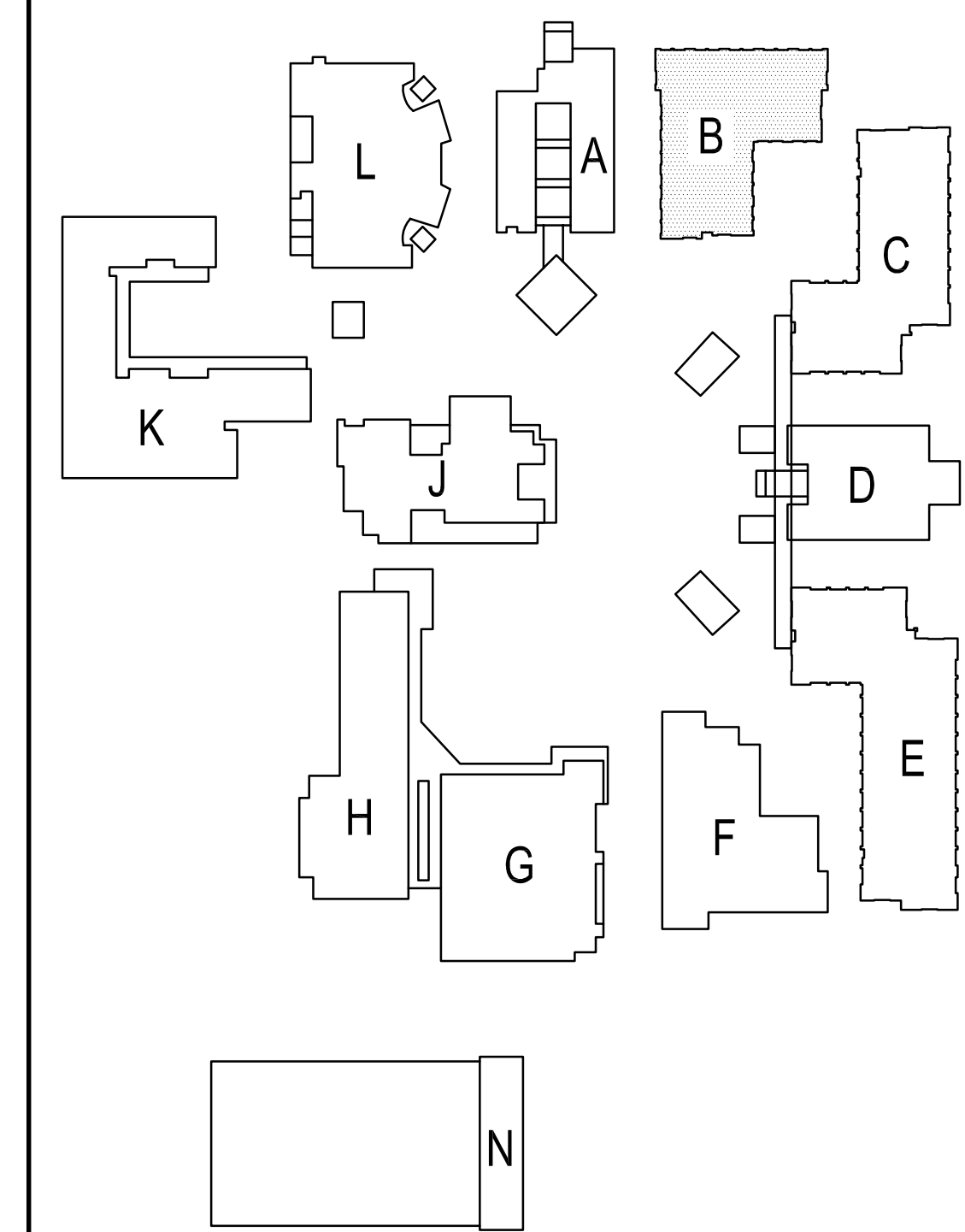
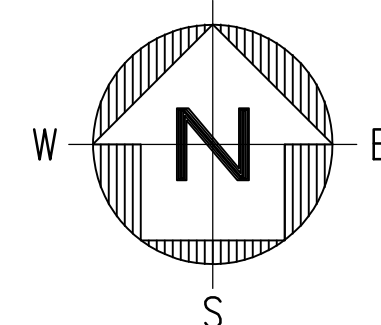
- 1/2" STRUCT 1 PLYWOOD
10d @ 6" O.C. BN
10d @ 6" O.C. EN
10d @ 12" O.C. FN
BLOCK ALL PLYWOOD EDGES. PER DETAIL 4/503.
- (N) ROOF INFILLS TO FOLLOW DETAIL 14/503.
- DEMO ALL EXISTING EQUIPMENT, DUCTING, ELECTRICAL, PLUMBING, ETC. MARKED AS DEMO PRIOR TO INSTALLING (N) ITEMS.
- COORDINATE ALL MECH UNIT LOCATIONS W/ ARCH AND MECHANICAL DRAWINGS.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- PROVIDE (N) 2x FULL DEPTH BLK'G CONT. EA. END OF (N) JOISTS/BEAMS
- ALL HANG MEPS SHALL FOLLOW DETAIL 2/502 & 14/502.

HATCH LEGEND

(N) PLYWOOD SHTG TO MATCH SAME PATTERN AND LAYOUT AS (E) SHTG. SEE ROOF FRAMING NOTES #1.



BLDG. 'B' ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1

DRAWN:	CHECKED:
DATE: 12/08/2019	SCALE: N.T.S.
PROJECT NUMBER: 20-19-06	

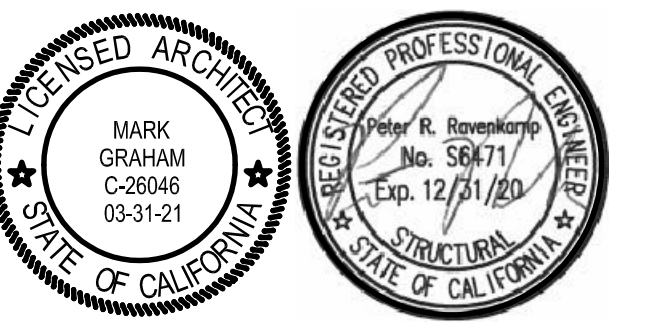
**BUILDING B
ROOF FRAMING
PLAN**

DRAWING NUMBER: **S2.1**



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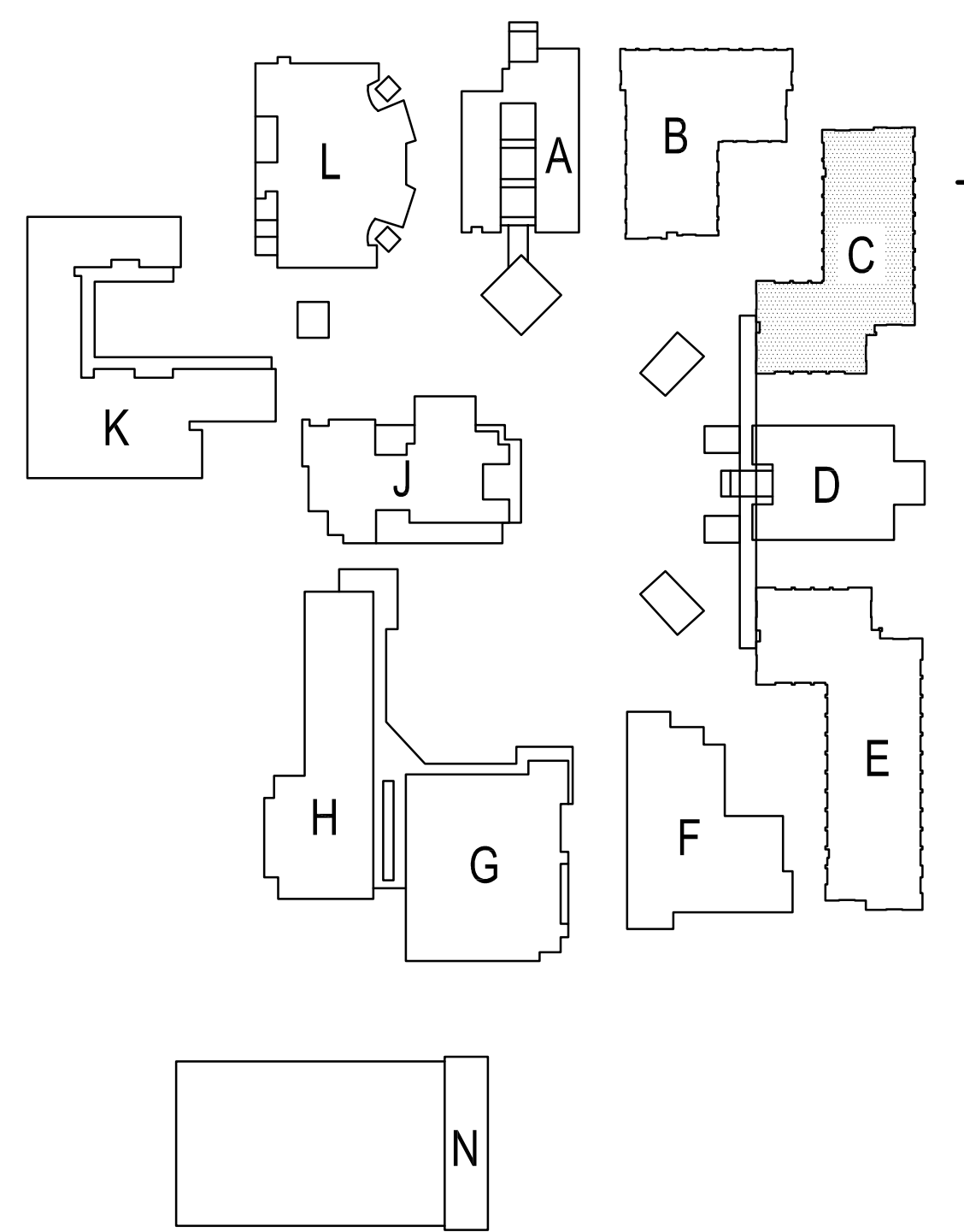
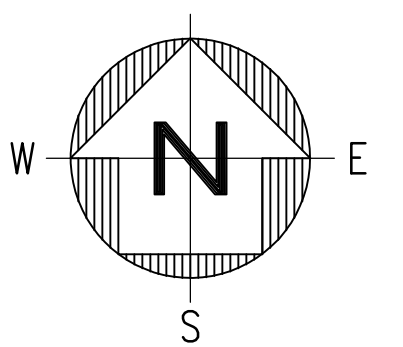


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- SECOND FLOOR FRAMING NOTES**
- 3 1/4" L.T. CONC. SLAB W/ FIBER MESH W/ #4 @ 24" O.C. EA. MAY OVER 3"x6" GA. MS FORMLOK (GALV.) DECK BY VERCO MANUFACTURING CO. @ 1/4" TOTAL THICKNESS (APPROX. 21) QUANTITY OF FIBER MESH IN CONC. PER CONC. NOTE.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - HANG UNITS SHOULD BE FRAMED PER DETAIL 12/502
 - FLOOR PENETRATIONS SHOULD BE FRAMED PER DETAIL 1/504
 - IF INTERIOR NON-BEARING STUD WALLS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN PER MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - ALL HANG MEP SHALL FOLLOW DETAIL 12/502 & 2/503.



BLDG. 'C' SECOND FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1

DRAWN:	CHECKED:
DATE: 12/08/2019	SCALE: N.T.S.
PROJECT NUMBER: 20-19-06	

**BUILDING C
SECOND FLOOR
FRAMING PLAN**

DRAWING NUMBER: **S2.2**

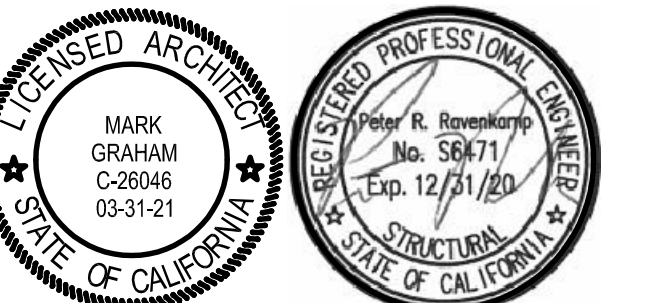
ROOF FRAMING NOTES

- 3 1/4" LT. CONC. SLAB W/ FIBER MESH W/ #4 @ 24" O.C. EA. MAY OVER 5/16 GA. W/ FORMLOK (GALV.) DECK BY VERCO MANUFACTURING CO. @ 1/4" TOTAL THICKNESS (APPROX. 21) QUANTITY OF FIBER MESH IN CONC. PER CONC. NOTE.
- NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
- (N) ROOF PENETRATIONS PER DETAIL 4/50.4.
- (N) ROOF INFILLS TO FOLLOW DETAIL 15/50.4.
- (N) INTERIOR NON-BEARING STUD WALLS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- ALL HANG MEPS SHALL FOLLOW DETAIL 12/50.2 & 2/50.3.

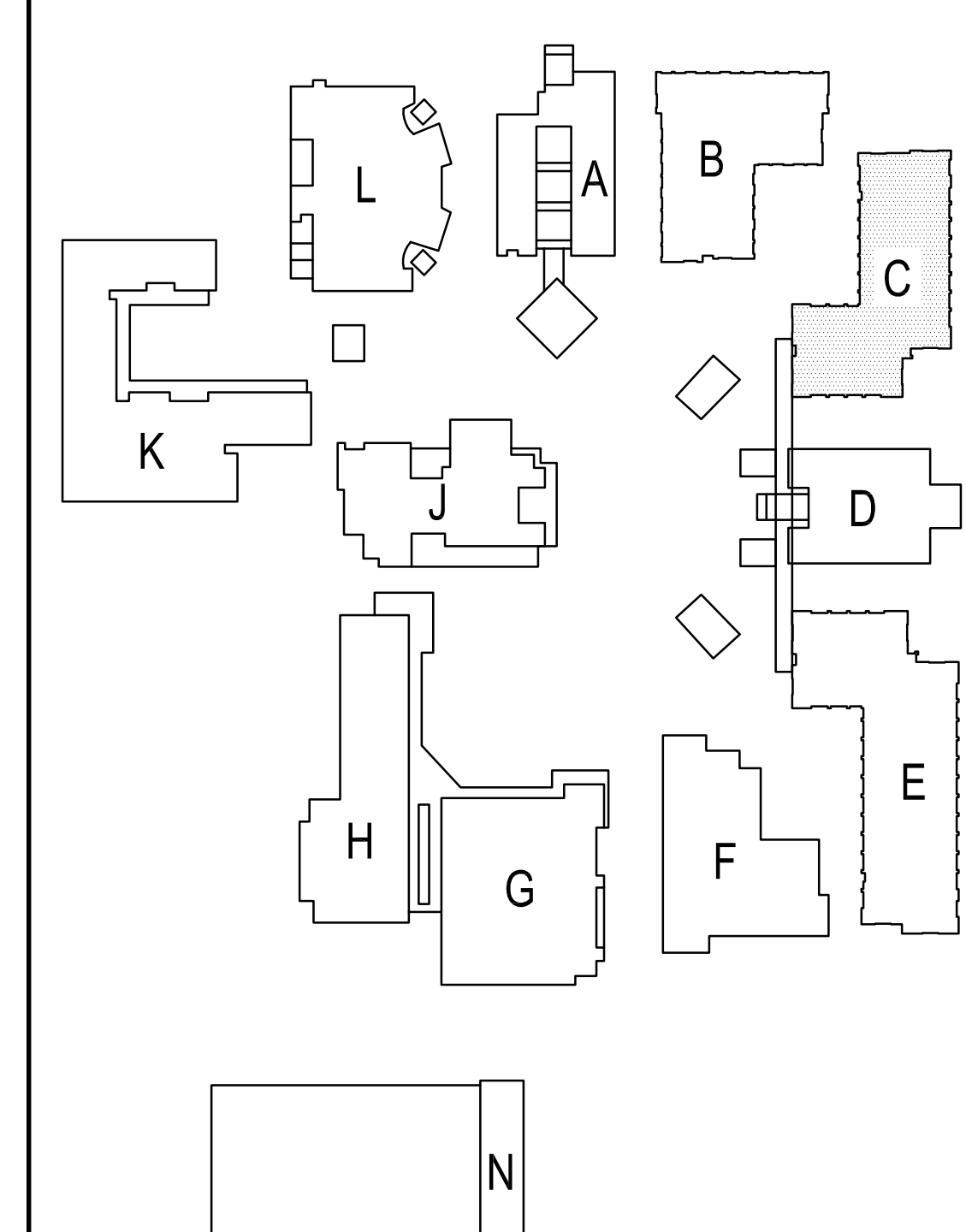


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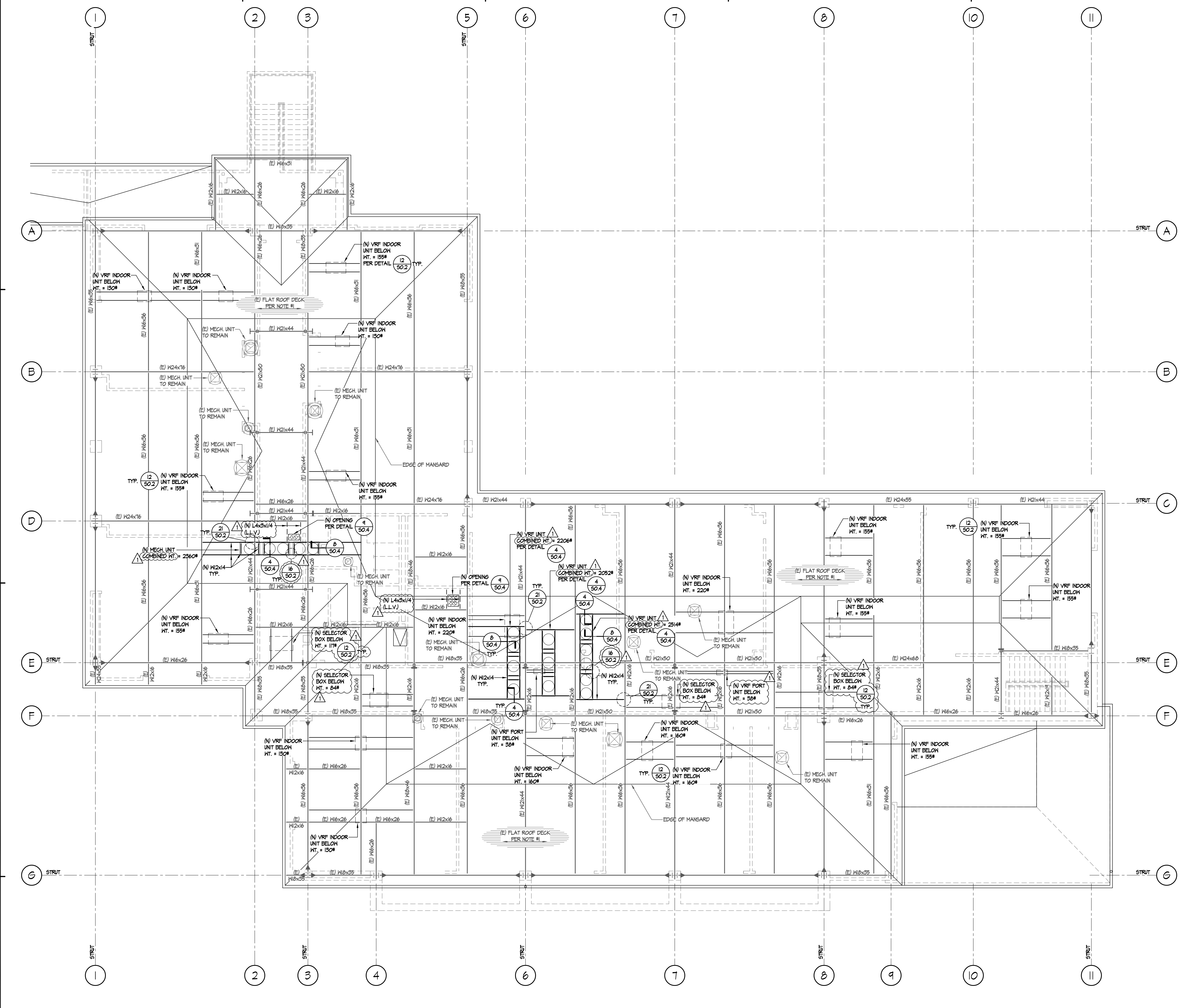
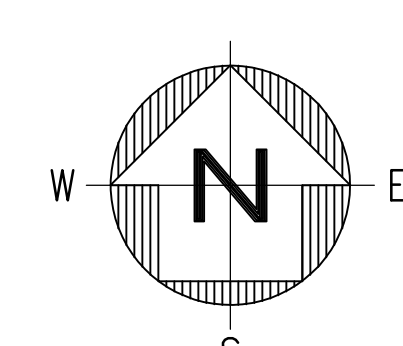


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SITE KEY PLAN

BLDG. 'C' ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"



NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1
REVISIONS			

DRAWN: _____ CHECKED: _____
DATE: 12/08/2019 SCALE: N.T.S.
PROJECT NUMBER: 20-19-06

**BUILDING C
ROOF FRAMING
PLAN**

DRAWING NUMBER: **S2.3**

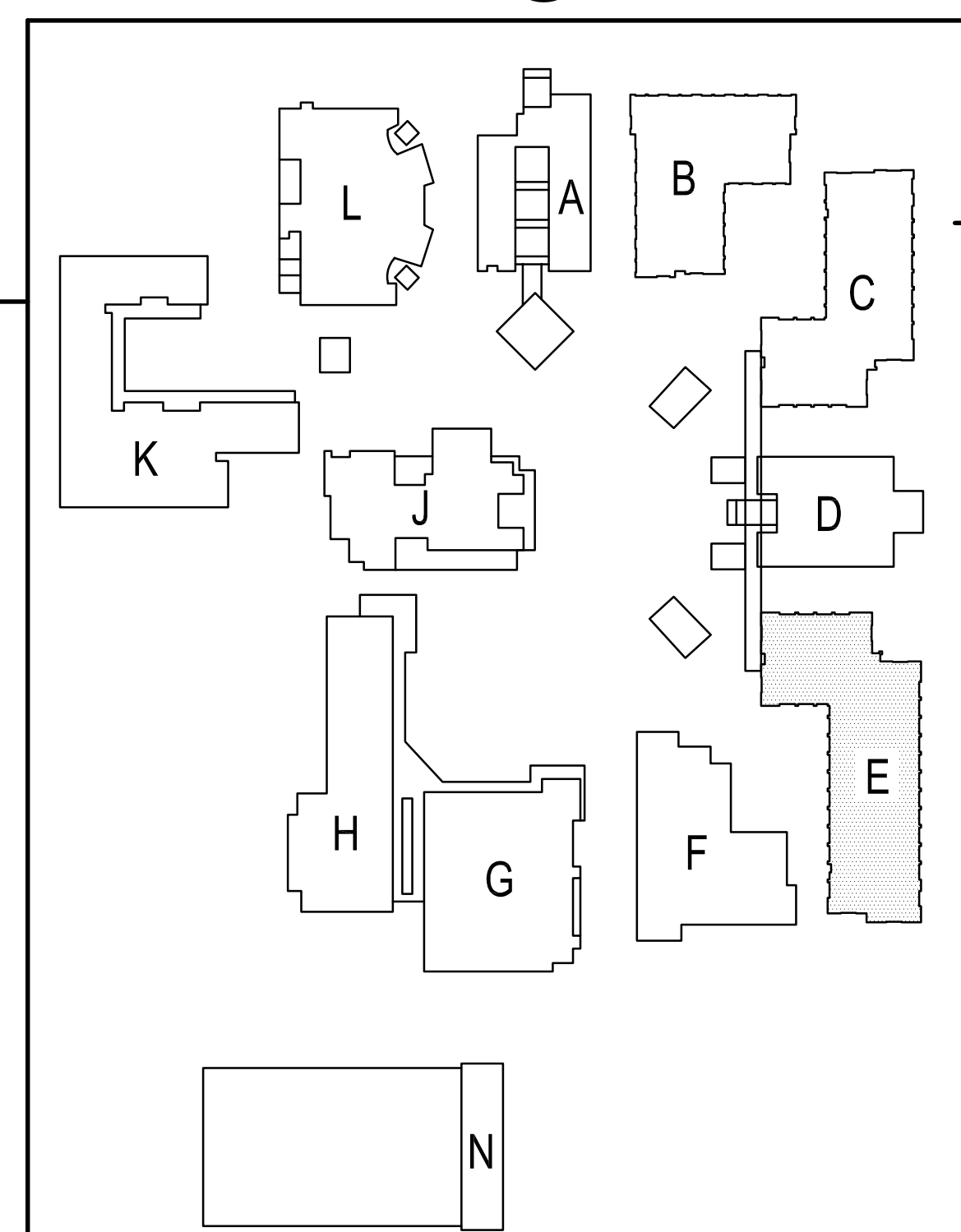


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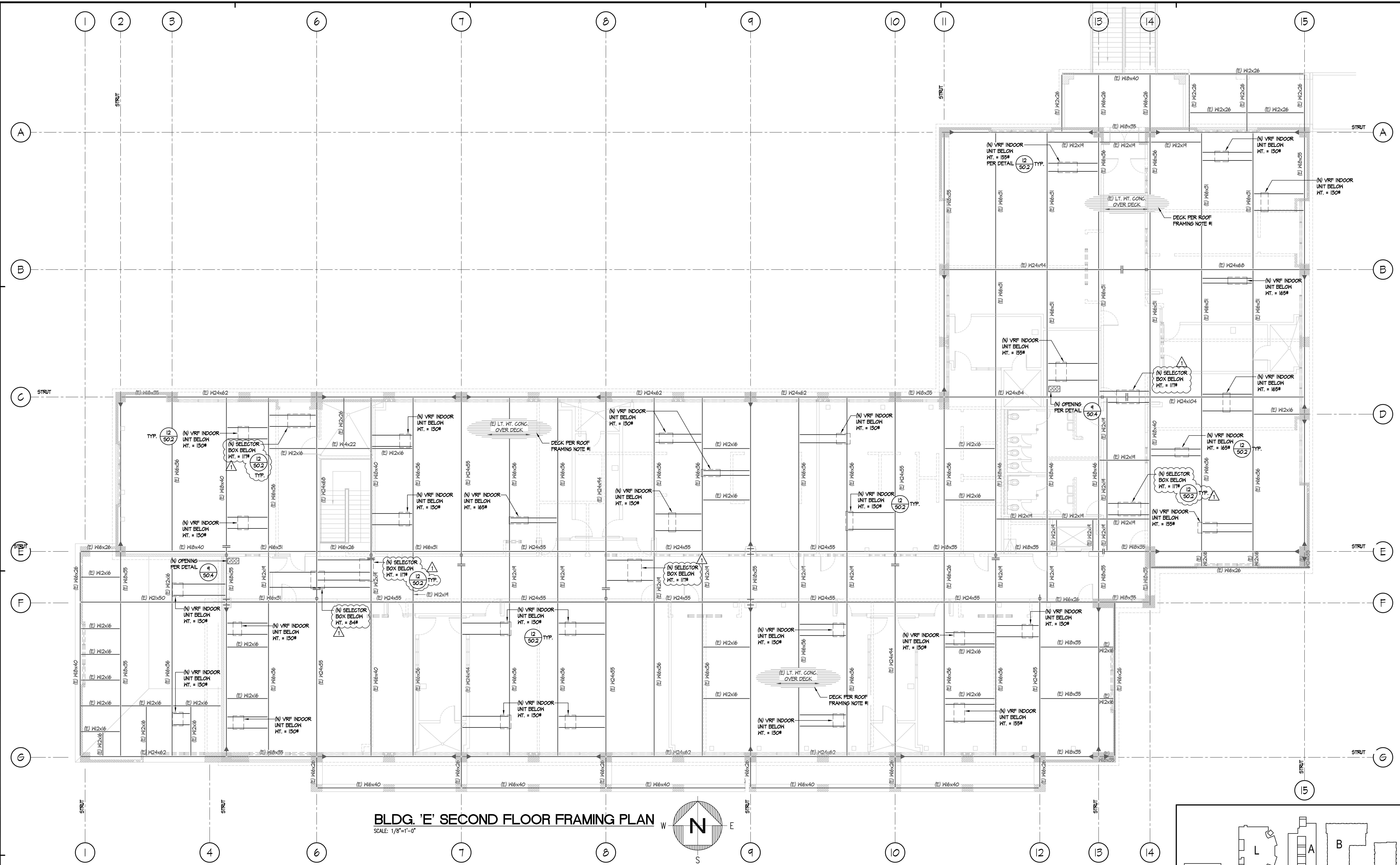
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SITE KEY PLAN



BLDG. 'E' SECOND FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"

- SECOND FLOOR FRAMING NOTES**
- 3 1/4" LT. WT. CONC. SLAB W/ FIBER MESH W/ #4 @ 24" O.C. EA. MAY OVER 3"x6" GA. MS FORMLOK (GALV) DECK BY VERGO MANUFACTURING CO. 6 1/4" TOTAL THICKNESS (APMO ER-211) QUANTITY OF FIBER MESH IN CONC. PER CONC. NOTE.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - HANG UNITS SHOULD BE FRAMED PER DETAIL 12/502
 - FLOOR PENETRATIONS SHOULD BE FRAMED PER DETAIL 4/504
 - (E) INTERIOR NON-BEARING STUD WALLS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND WEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - ALL HANG MEP SHALL FOLLOW DETAIL 12/502 & 2/503.

NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1

DRAWN:	CHECKED:
DATE: 12/08/2019	SCALE: N.T.S.
PROJECT NUMBER: 20-19-06	

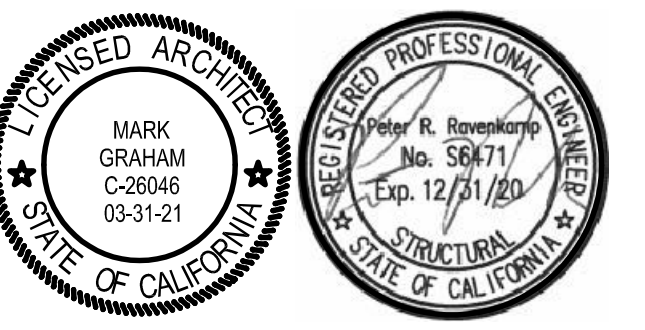
**BUILDING E
SECOND FLOOR
FRAMING PLAN**

DRAWING NUMBER: **S2.4**



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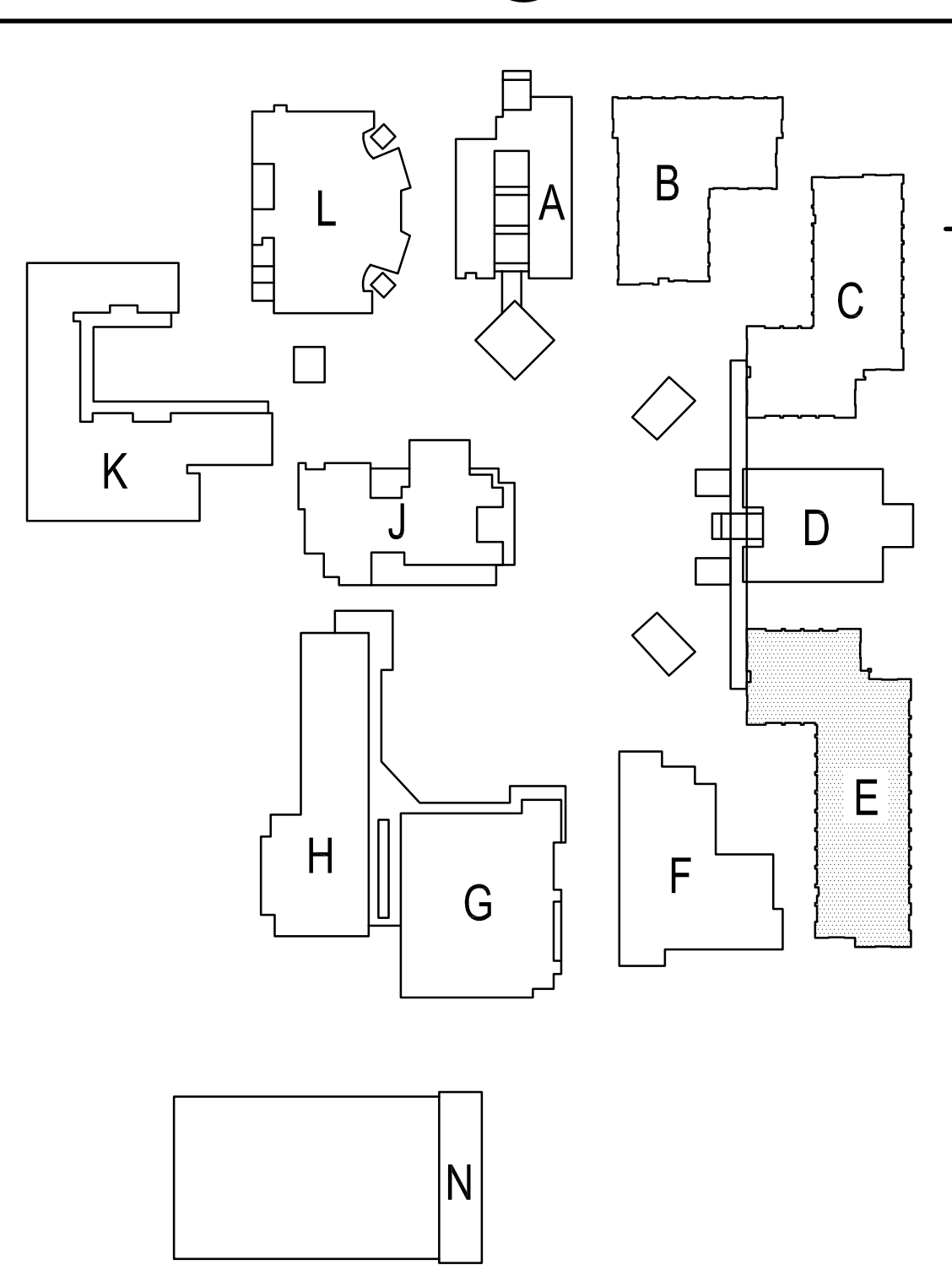


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BLDG. 'E' ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

- ROOF FRAMING NOTES**
- 3 1/4" LT. INT. CONC. SLAB W/ FIBER MESH W/ #4 @ 24" O.C. EA. MAX OVER 3/16" GA. MS FORMLOK (GALV) DECK BY VERGO MANUFACTURING CO. 6 1/4" TOTAL THICKNESS (APMO ER-211) QUANTITY OF FIBER MESH IN CONC. PER CONC. NOTE.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (N) ROOF PENETRATIONS PER DETAIL 4150.4.
 - (N) ROOF INFILLS TO FOLLOW DETAIL 13150.4.
 - (E) INTERIOR NON-BEARING STUD HALLS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - ALL HANG MEP SHALL FOLLOW DETAIL 12/502 & 2/503.



NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1
REVISIONS			

DRAWN: _____ CHECKED: _____
DATE: 12/08/2019 SCALE: N.T.S.
PROJECT NUMBER: 20-19-06

**BUILDING E
ROOF FRAMING
PLAN**

DRAWING NUMBER: **S2.5**



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ROOF FRAMING NOTES

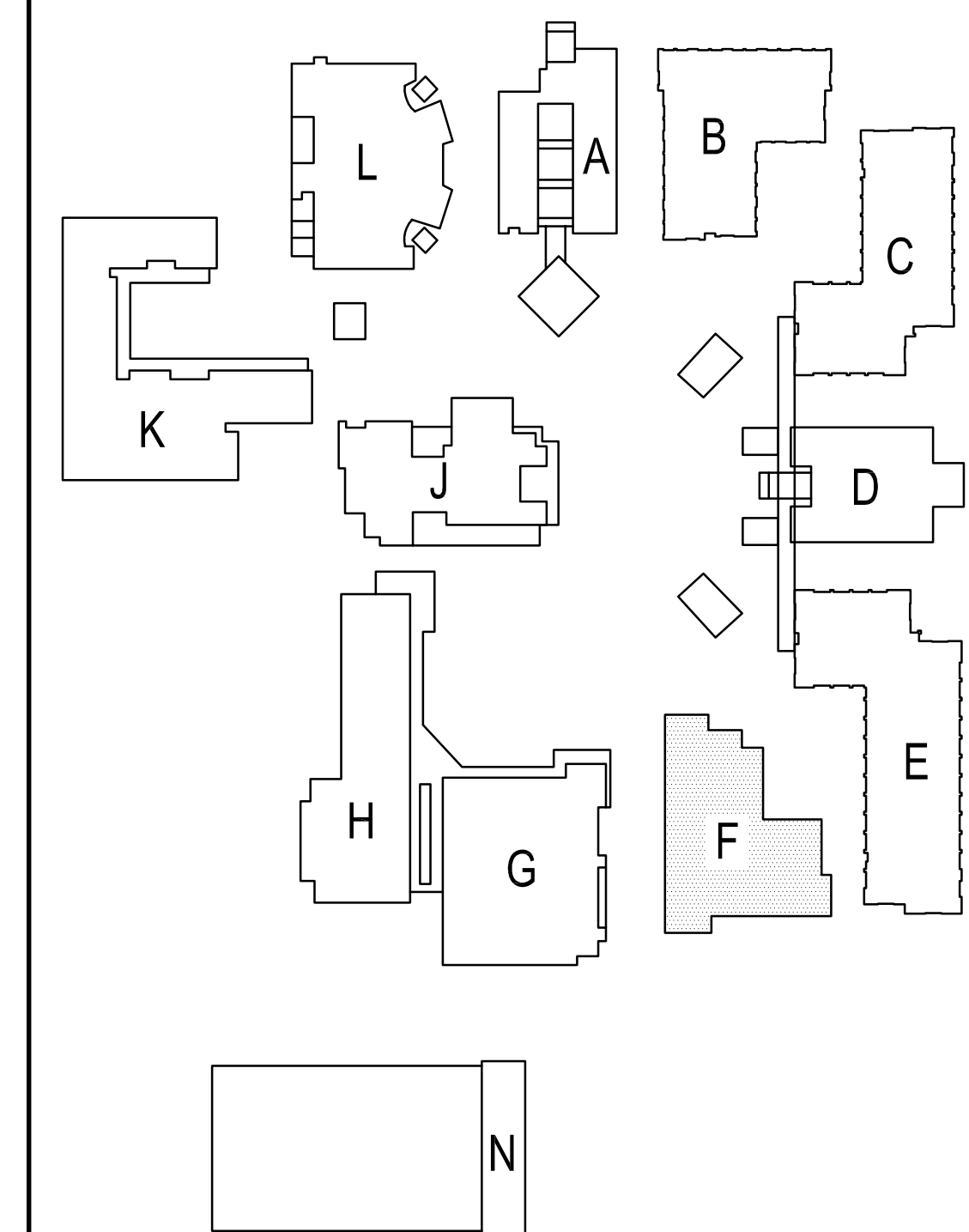
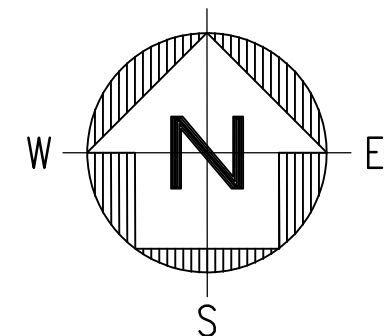
- 1/2" STRUCT 1 PLYWOOD
 10d @ 6" O.C. BN
 10d @ 6" O.C. EN
 10d @ 12" O.C. FN
 BLOCK ALL PLYWOOD EDGES. PER DETAIL 4/503.
- (N) ROOF INFILLS TO FOLLOW DETAIL 14/503.
- DEMO ALL EXISTING EQUIPMENT, DUCTING, ELECTRICAL, PLUMBING, ETC. MARKED AS DEMO PRIOR TO INSTALLING (N) ITEMS.
- COORDINATE ALL MECH UNIT LOCATIONS W/ ARCH AND MECHANICAL DRAWINGS.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- PROVIDE (N) 2x FULL DEPTH BLK'G CONT. EA. END OF (N) JOISTS/BEAMS.
- ALL HANS MEP SHALL FOLLOW DETAIL 12/502 & 2/503.

HATCH LEGEND

(N) PLYWOOD SHTS TO MATCH SAME PATTERN AND LAYOUT AS (E) SHTS. SEE ROOF FRAMING NOTES #1.



BLDG. 'F' ROOF FRAMING PLAN
 SCALE: 1/8"=1'-0"



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1

DRAWN:	CHECKED:
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**BUILDING F
 ROOF FRAMING
 PLAN**

DRAWING NUMBER: **S2.6**



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1	8/25/20	ME	ADDENDUM 1
REVISIONS			

DRAWN: _____ CHECKED: _____
 DATE: 12/08/2019 SCALE: N.T.S.
 PROJECT NUMBER: 20-19-06

**BUILDING G
 ROOF FRAMING
 DEMO PLAN**

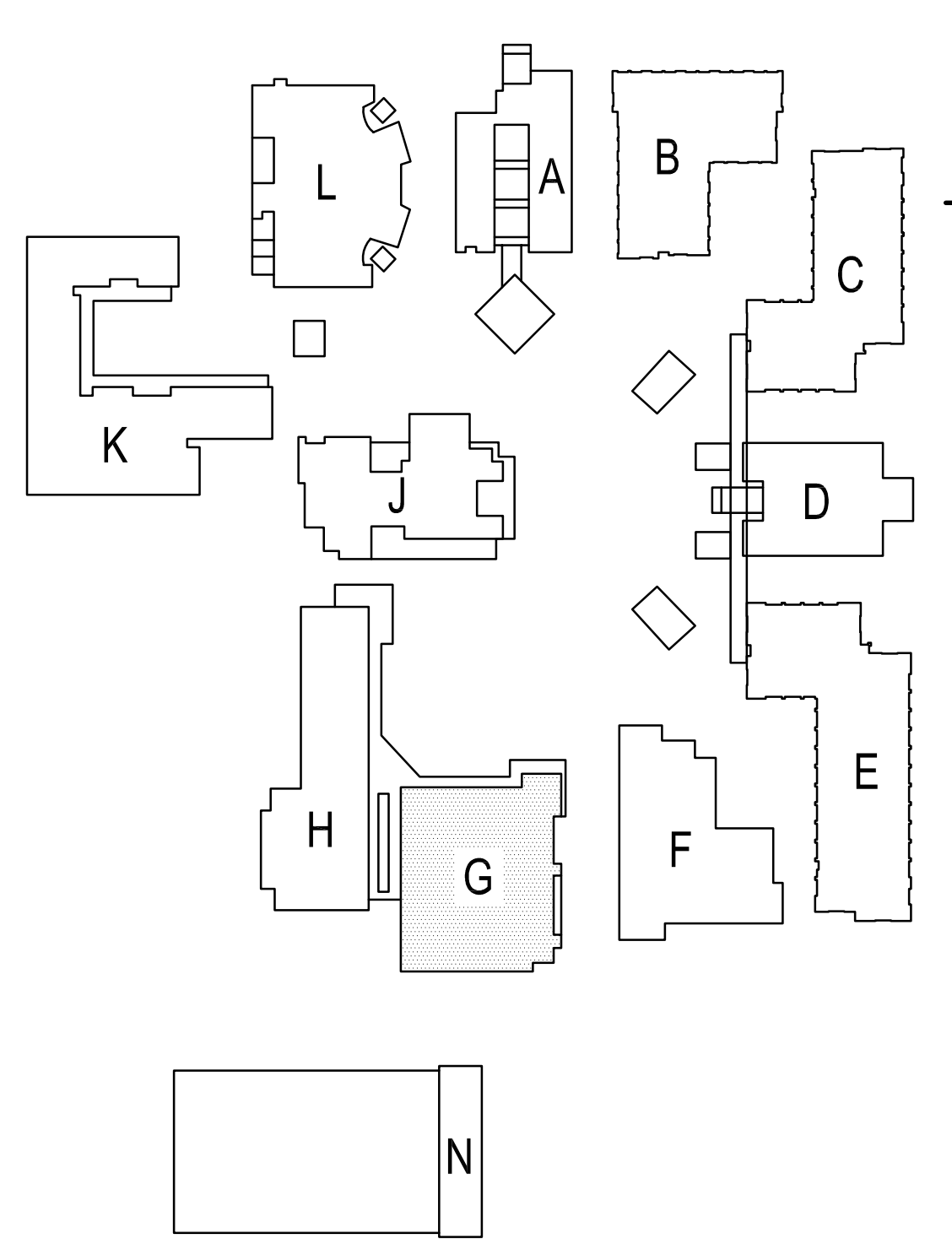
DRAWING NUMBER: **S2.7**

ROOF FRAMING DEMO NOTES

1. 1/2" DEEP 2018 GA. VERCO H88-96 GALV. CO. ACROUSTICAL STL. DECK W/ 2x4'S EFFECTIVE RIDGLE HELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1/2" LONG @ 12" O.C.
2. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
3. INTERIOR NON-BEARING STD WALLS AND SOFFITES TO BE DEMO'D AS NECESSARY TO INSTALL IN BEAMS/SUPPORTS
4. BEAMS LABELED AS "STRUT" TO REMAIN IN PLACE.
5. THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
6. REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL 4/503. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.

DEMO HATCH LEGEND

(E) ELEMENT TO BE REMOVED



BLDG. 'G' ROOF FRAMING DEMO PLAN
 SCALE: 1/8"=1'-0"



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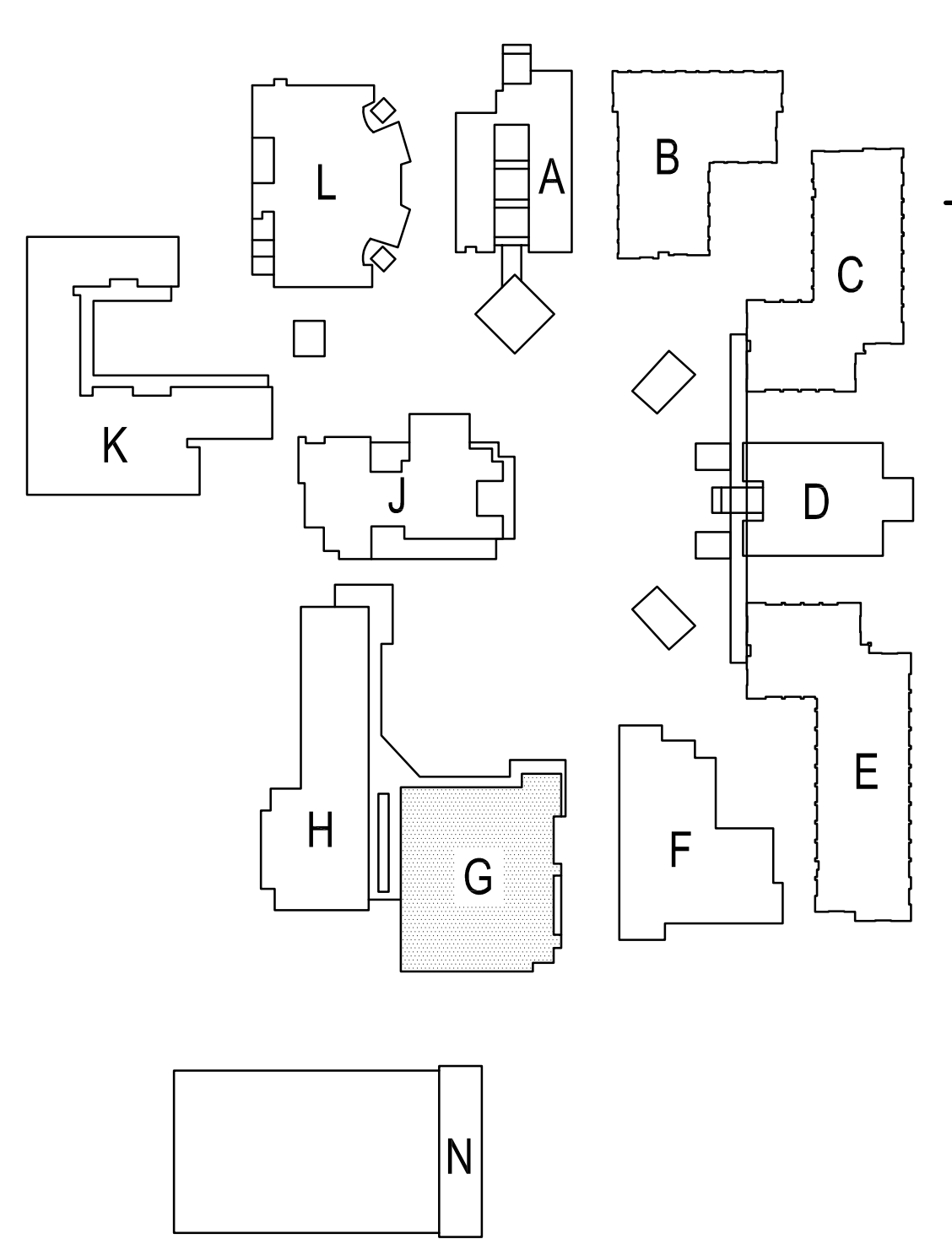
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ROOF FRAMING REMODEL NOTES

1. 1/2" DEEP 2018 GA. VERCO HSB-36 GALV. CO. AGOSTICAL STL. DECK W/ 3/4" EFFECTIVE RIBBLE WELD @ 12" O.C. AND AT EA. LOW FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1 1/2" LONG @ 12" O.C.
2. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
3. (E) INTERIOR NON-BEARING STD. WALLS & SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS.
4. BEAMS LABELED AS "STRUT" TO REMAIN IN PLACE.
5. (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL H/502.
6. THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND WEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN PER MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.

HATCH LEGEND

(N) INFILL SHD TO MATCH SAME PATTERN AND LAYOUT AS (E) SHD. SEE DETAIL H/503

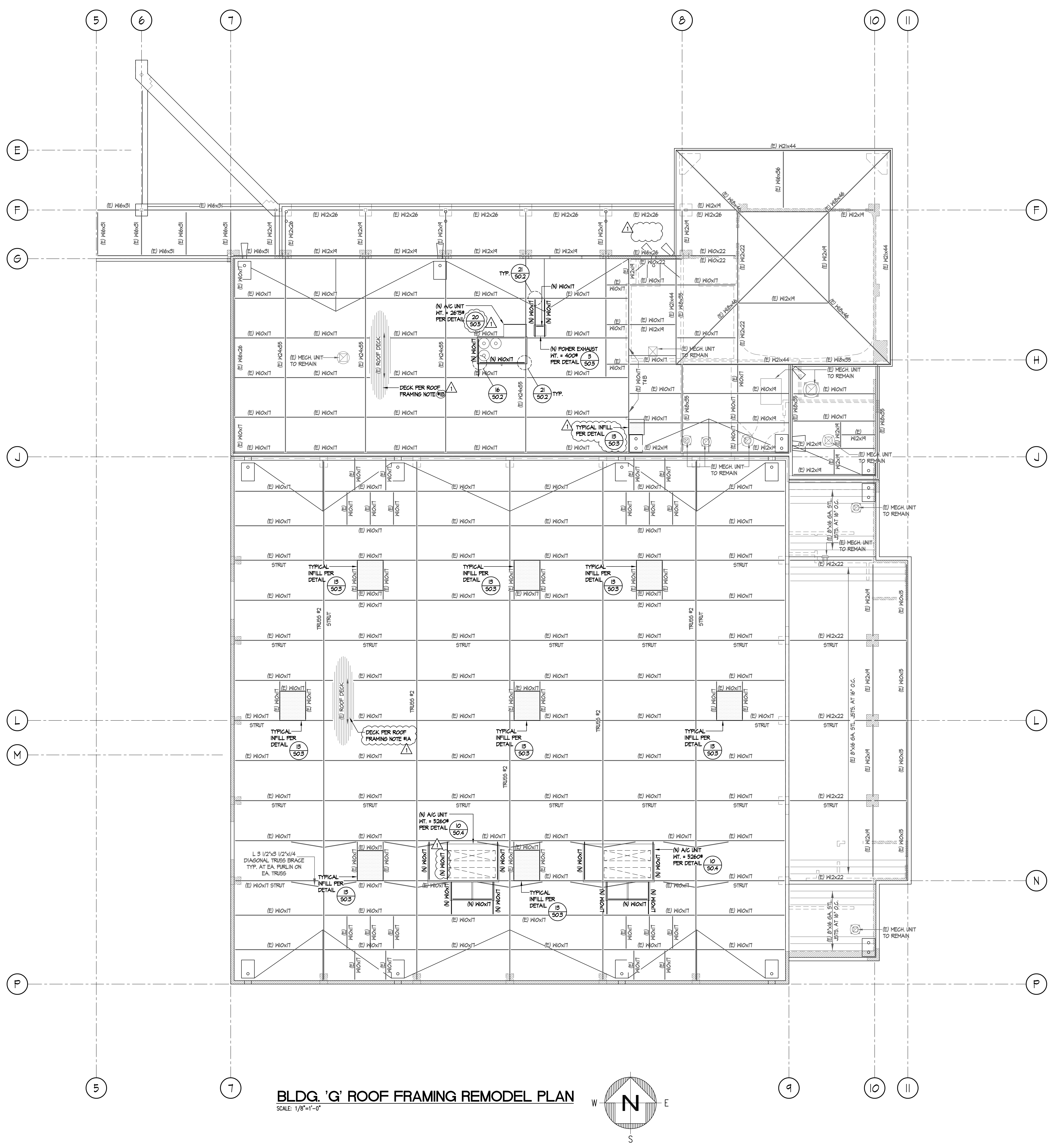


NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1
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**BUILDING G
 ROOF FRAMING
 REMODEL PLAN**

DRAWING NUMBER: **S2.8**

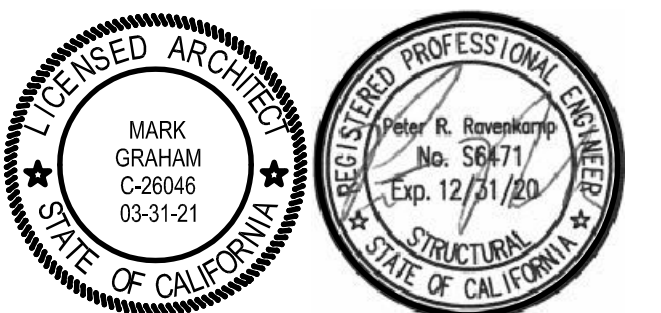


BLDG. 'G' ROOF FRAMING REMODEL PLAN
 SCALE: 1/8"=1'-0"
 W N E S

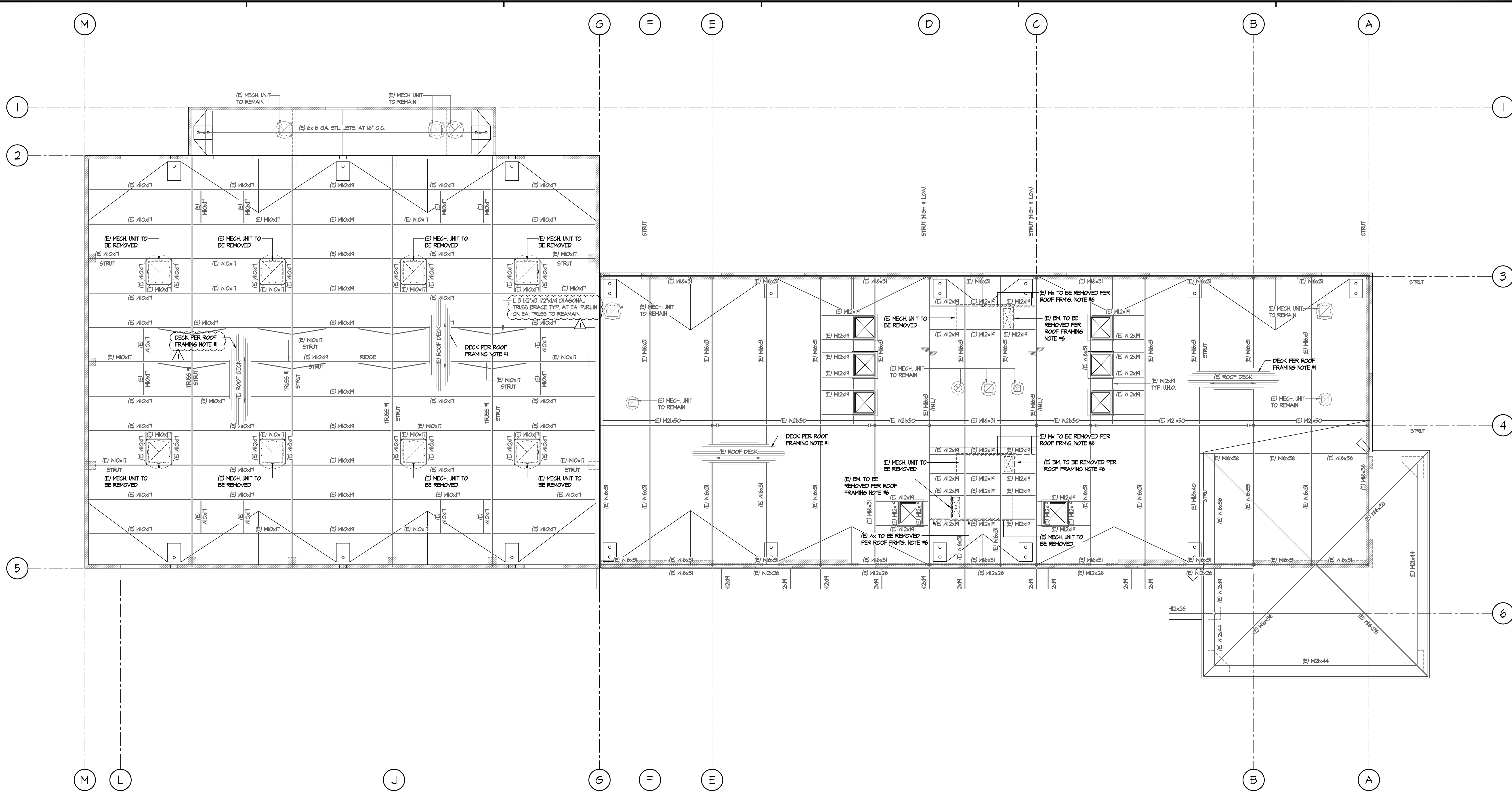


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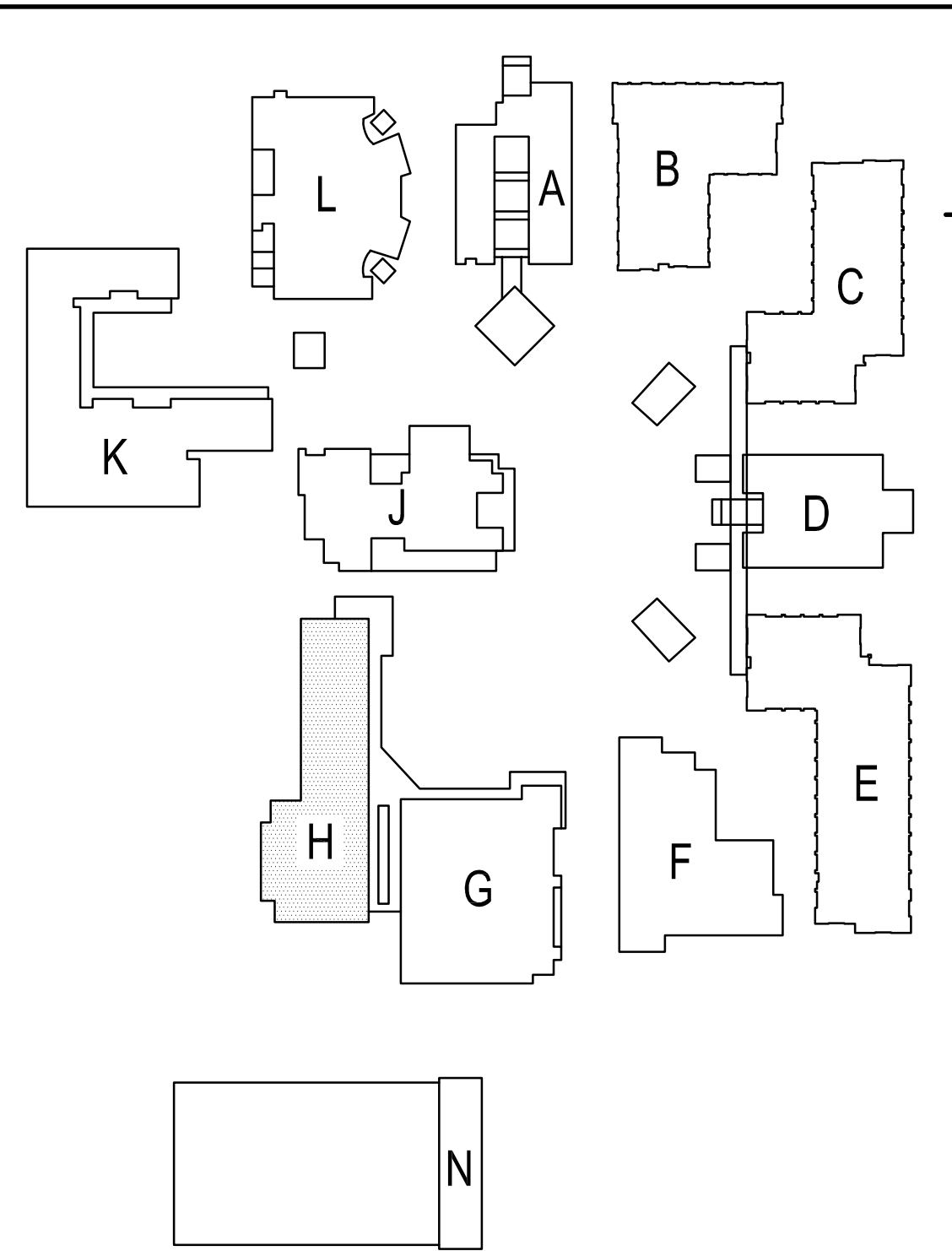
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BLDG. 'H' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



- ROOF FRAMING DEMO NOTES**
1. 1/2" DEEP 2018 6A. VERCO HEB-36 GALV. CD ACOSTICAL STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1/2" LONG @ 12" O.C.
 2. 3" DEEP 18 GA. GALV. VERCO N-34 STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1/2" LONG @ 12" O.C.
 3. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 4. INTERIOR NON-BEARING STUD WALLS AND SOFFITES TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 5. BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 6. THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN FOR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 7. REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL 4503. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1
REVISIONS			

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PROJECT NUMBER: 20-19-06

**BUILDING H
ROOF FRAMING
DEMO PLAN**

DRAWING NUMBER: S2.9

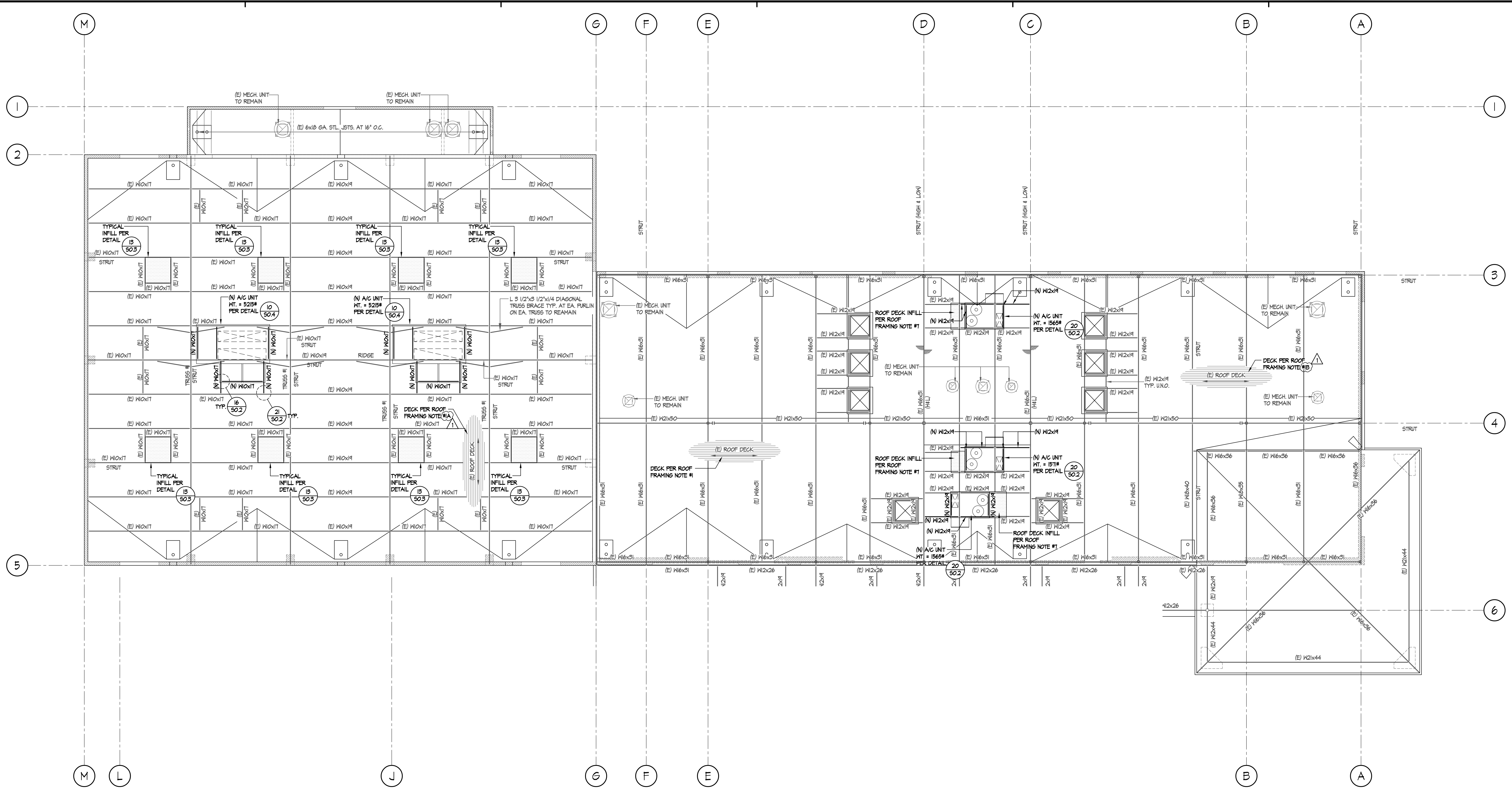


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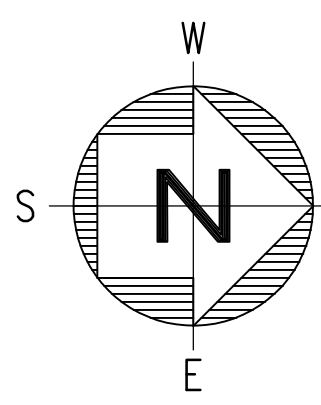
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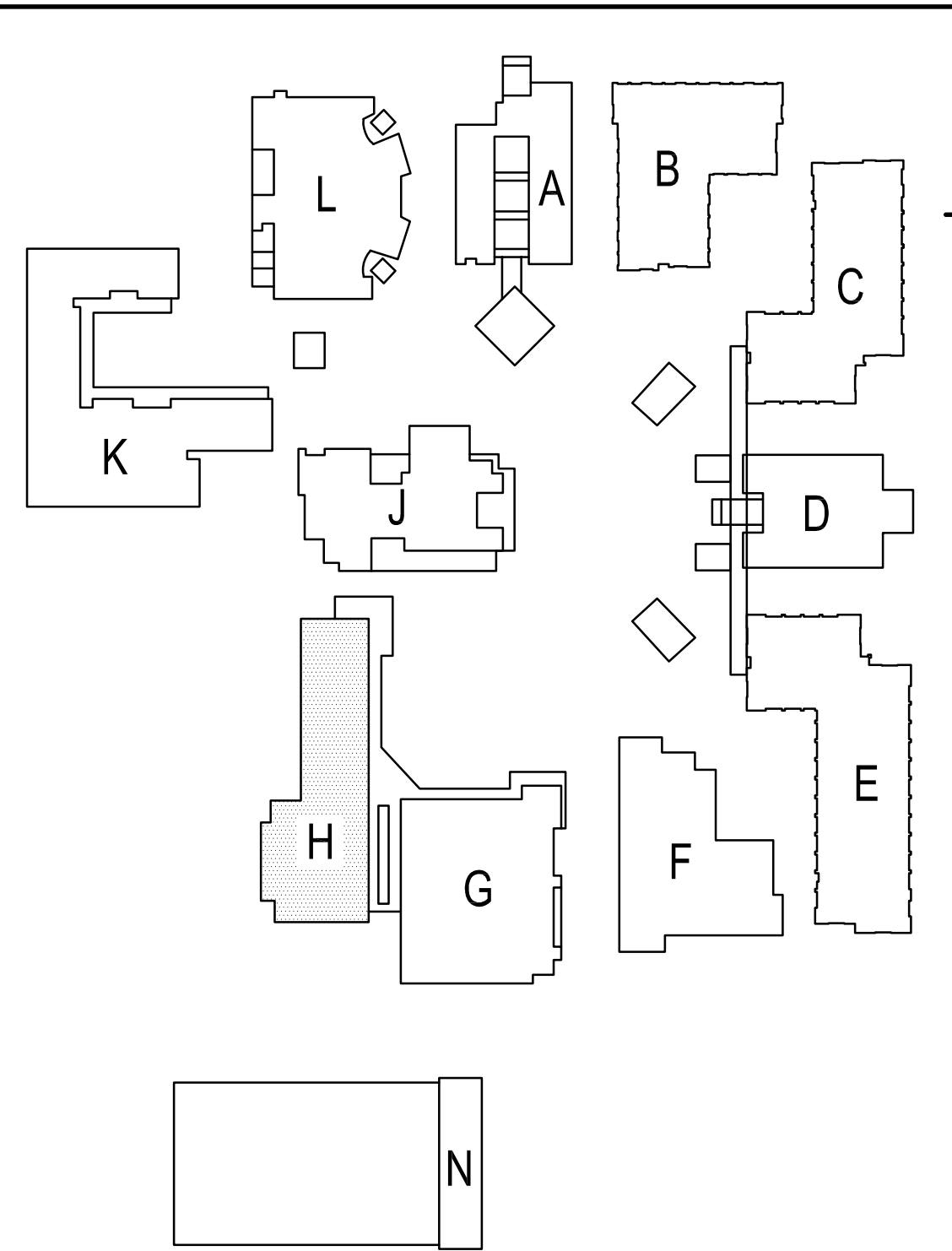
BLDG. 'H' ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"



HATCH LEGEND

	(N) INFILL SHTS TO MATCH SAME PATTERN AND LAYOUT AS (E) SHTS. SEE DETAIL 13503
--	--

- ROOF FRAMING REMODEL NOTES**
- 1 1/2" DEEP 2018 6A VERCO HEB-36 GALV. CD ACUSTICAL STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1 1/2" LONG @ 12" O.C.
 - 3" DEEP 18 GA. GALV. VERCO N-24 STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (E) INTERIOR NON-BEARING STD. HALLS AND SOFFITS TO BE DEMOD AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS "STRUT" TO REMAIN IN PLACE.
 - (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL H502 & S504.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN PER MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 13503. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION.
 - REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 4503.



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1
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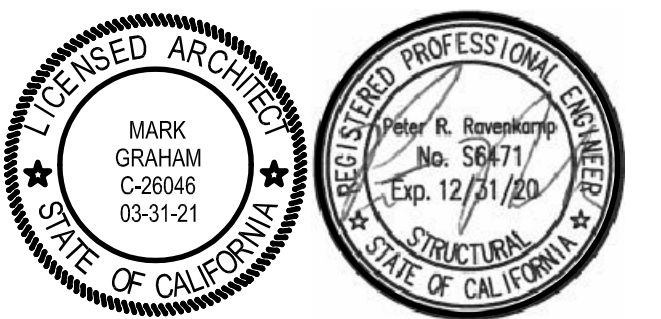
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DATE: 12/08/2019 SCALE: N.T.S.
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**BUILDING H
ROOF FRAMING
REMODEL PLAN**
DRAWING NUMBER: **S2.10**



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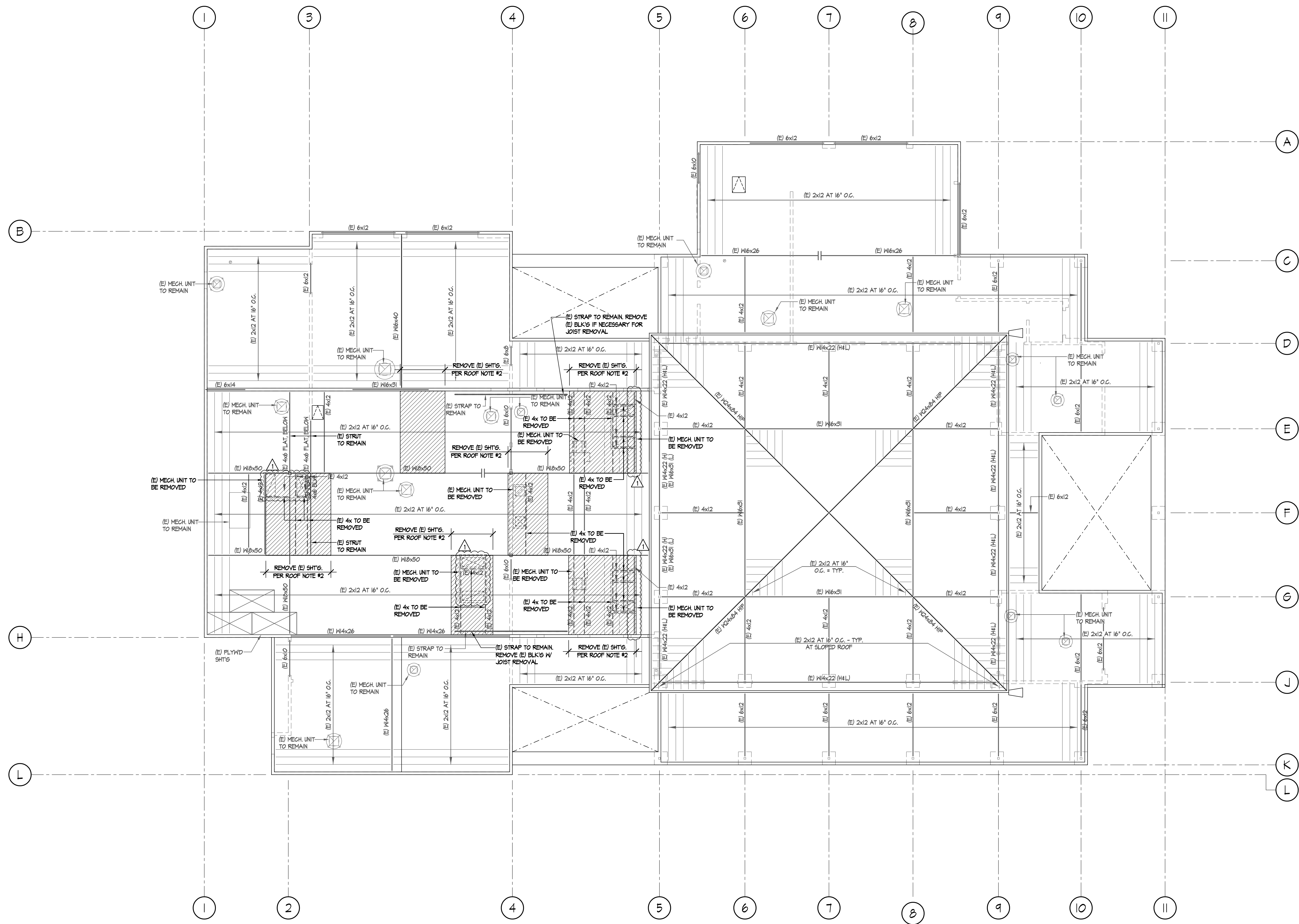
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ROOF FRAMING DEMO NOTES

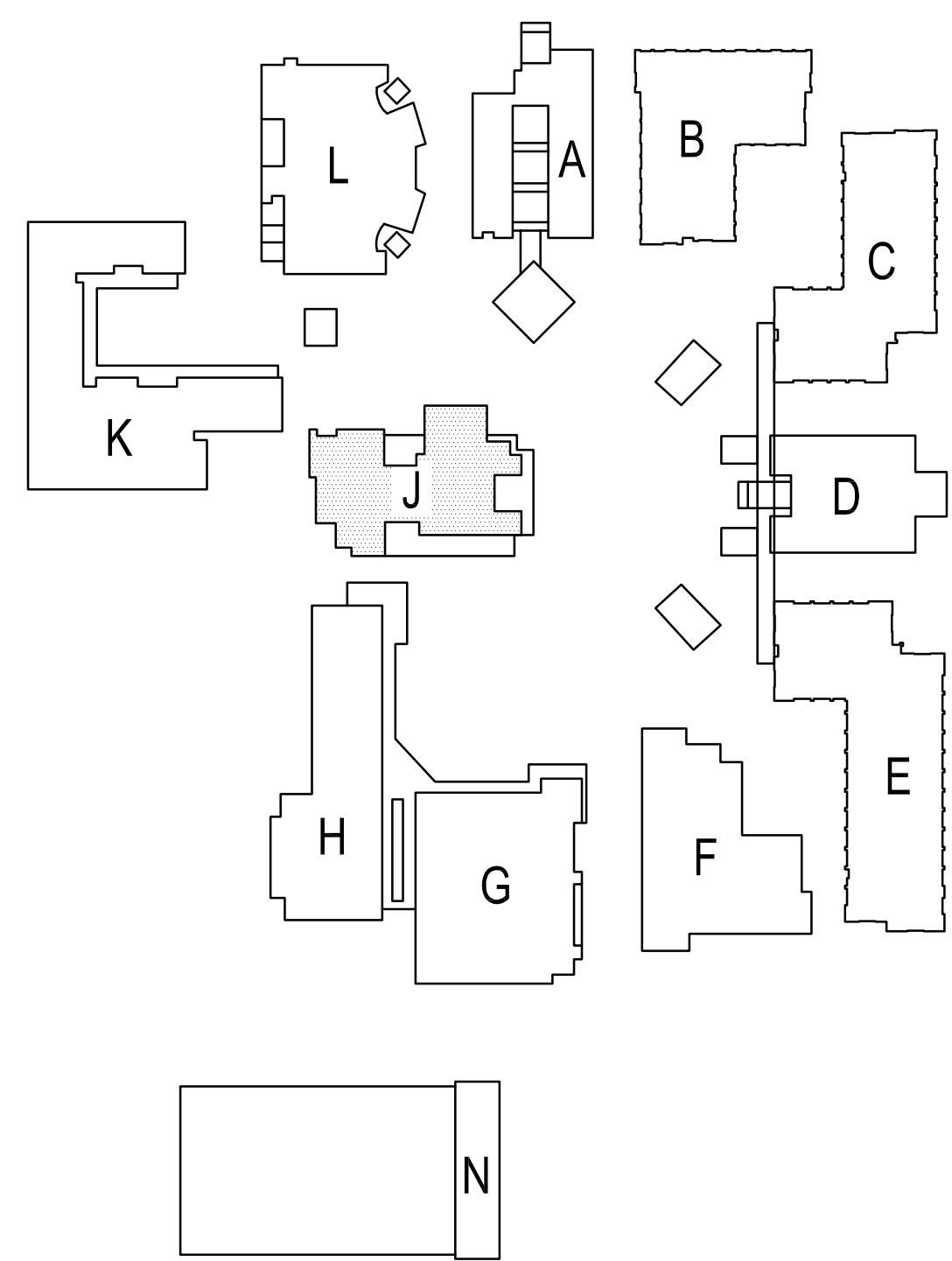
1. DEMO (E) MECHANICAL PLATFORMS PRIOR TO INSTALLING (N) PLATFORMS/GIRDS.
2. REMOVE (E) PLYWOOD SHTG AND (E) RAFTERS WHERE INSTALLING (N) JOIST AS SHOWN ON S2.12.

DEMO HATCH LEGEND

(E) ELEMENT TO BE REMOVED



BLDG. 'J' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1
REVISIONS			

DRAWN: _____ CHECKED: _____
DATE: 12/08/2019 SCALE: N.T.S.
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**BUILDING J
ROOF FRAMING
DEMO PLAN**

DRAWING NUMBER: **S2.11**

SITE KEY PLAN



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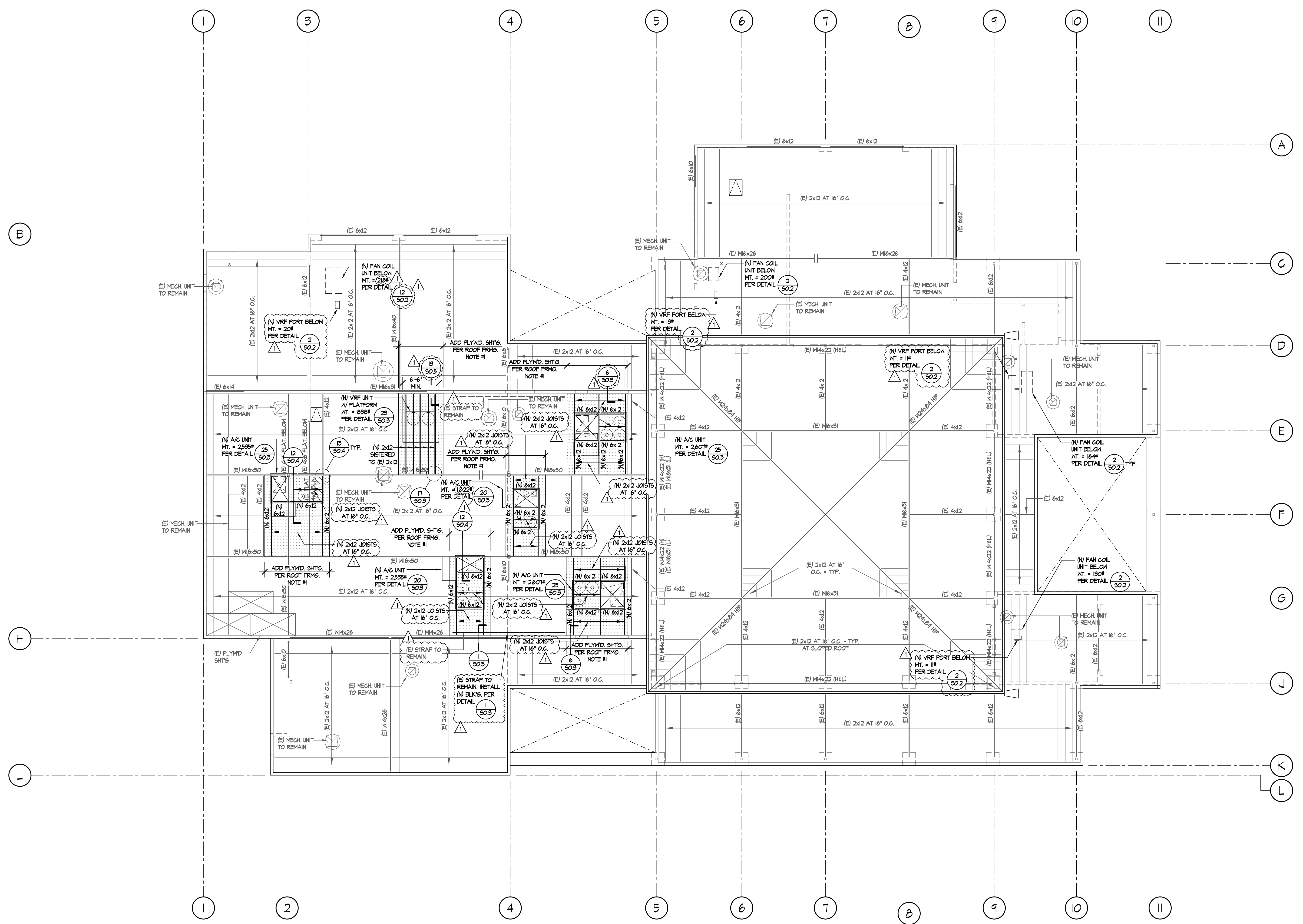
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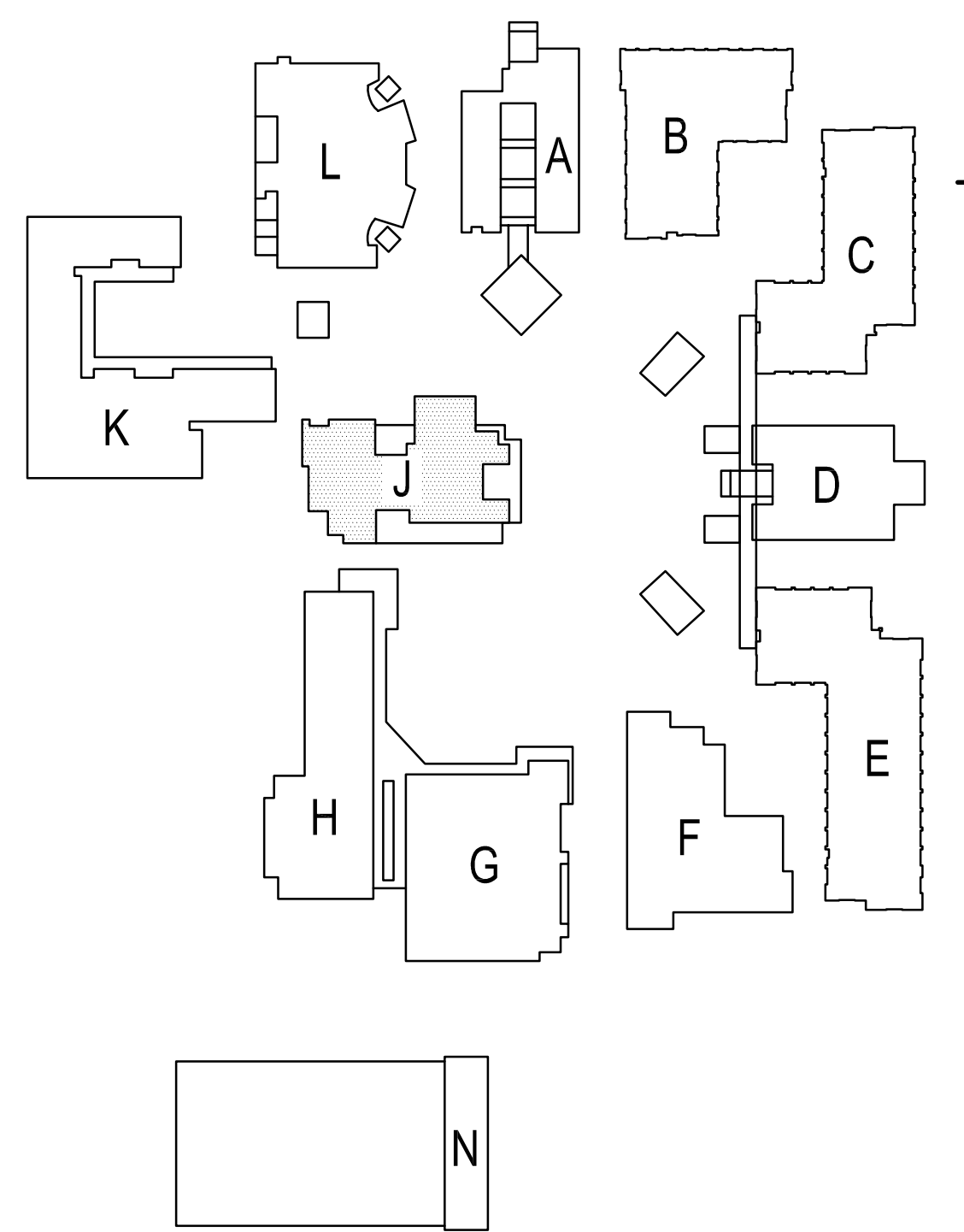
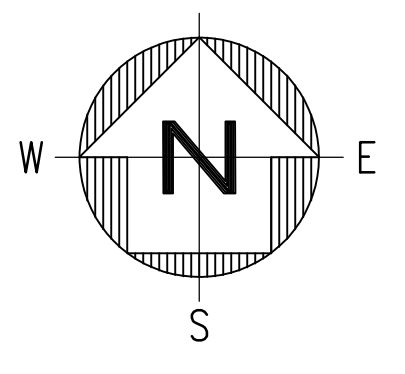
- ROOF FRAMING REMODEL NOTES**
- 1/2" STRUCT. PLYWOOD
 10d @ 6" O.C. BN.
 10d @ 6" O.C. EN.
 10d @ 12" O.C. FN.
 BLOCK ALL PLYWOOD EDGES. PER DETAIL 450.3.
 - ALL RAFTERS DESIGNED AS STRUT SHOULD RECEIVE 2 ROWS 10d NAILS.
 - COORDINATE ALL MECH UNIT LOCATIONS W/ ARCH AND MECHANICAL DRAWINGS.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - PROVIDE (N) 2x FULL DEPTH BLK'S, CONT. EA. END OF (N) JOISTS.
 - (N) PLYWOOD ROOF INFILL PER 1450.3.

HATCH LEGEND

(N) PLYWOOD SHTG. TO MATCH SAME PATTERN AND LAYOUT AS (E) SHTG. SEE ROOF FRAMING NOTES #1.



BLDG. 'J' ROOF FRAMING REMODEL PLAN
 SCALE: 1/8"=1'-0"



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
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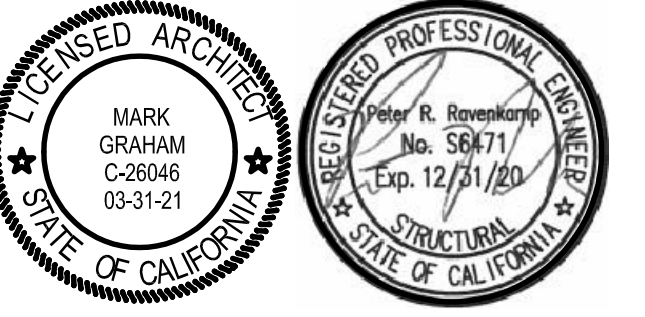
**BUILDING J
 ROOF FRAMING
 REMODEL PLAN**

DRAWING NUMBER: **S2.12**



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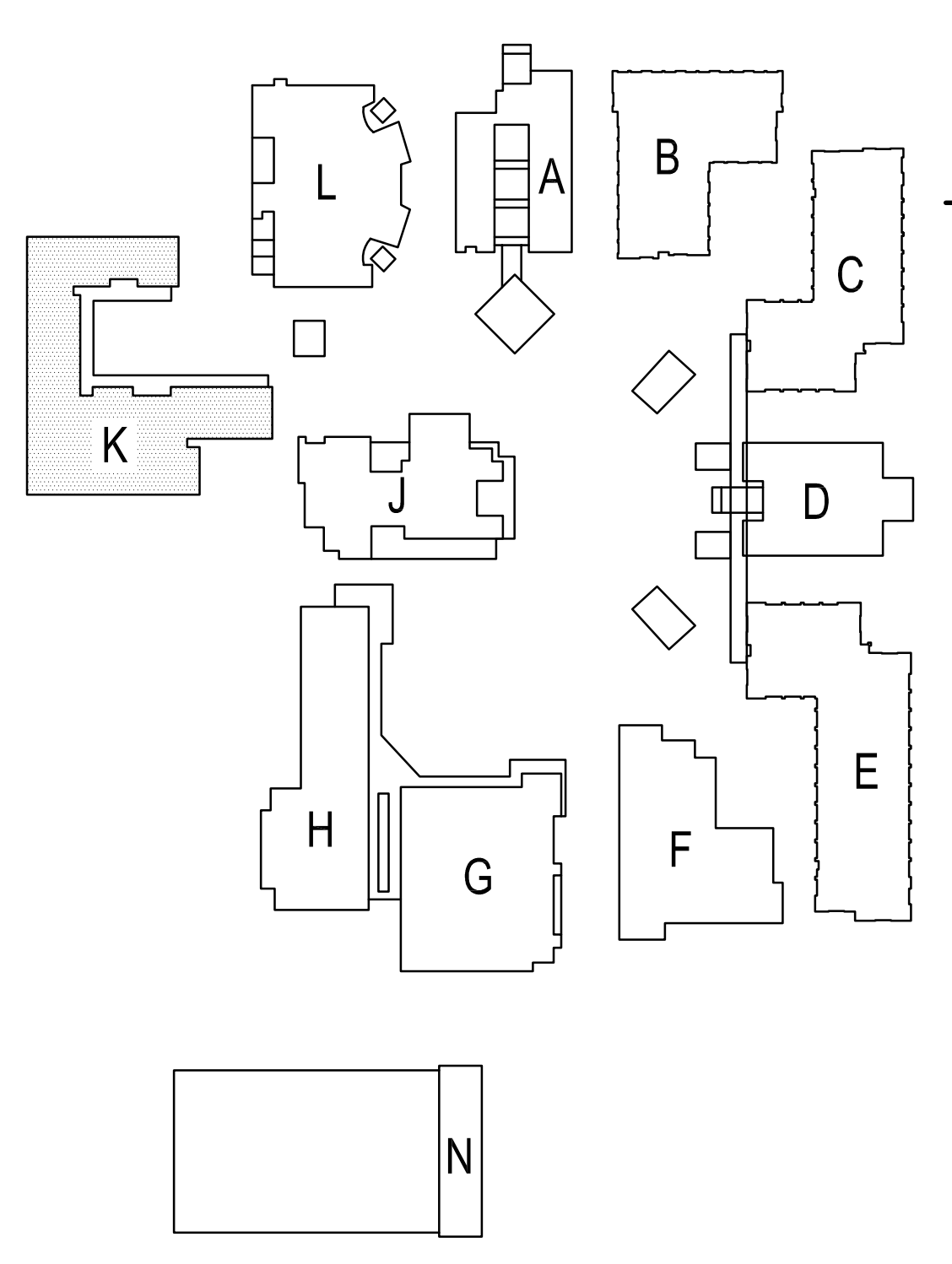
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ROOF FRAMING DEMO NOTES

1. DEMO (E) MECHANICAL PLATFORMS PRIOR TO INSTALLING (N) PLATFORMS/GIRDS.
2. REMOVE (E) FLYWOOD SHTG AND (E) RAFTERS WHERE INSTALLING (N) JOIST AS SHOWN ON (E) 14.

DEMO HATCH LEGEND

(E) ELEMENT TO BE REMOVED



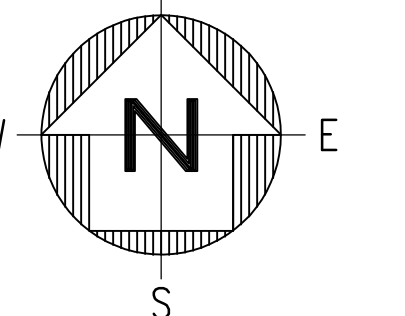
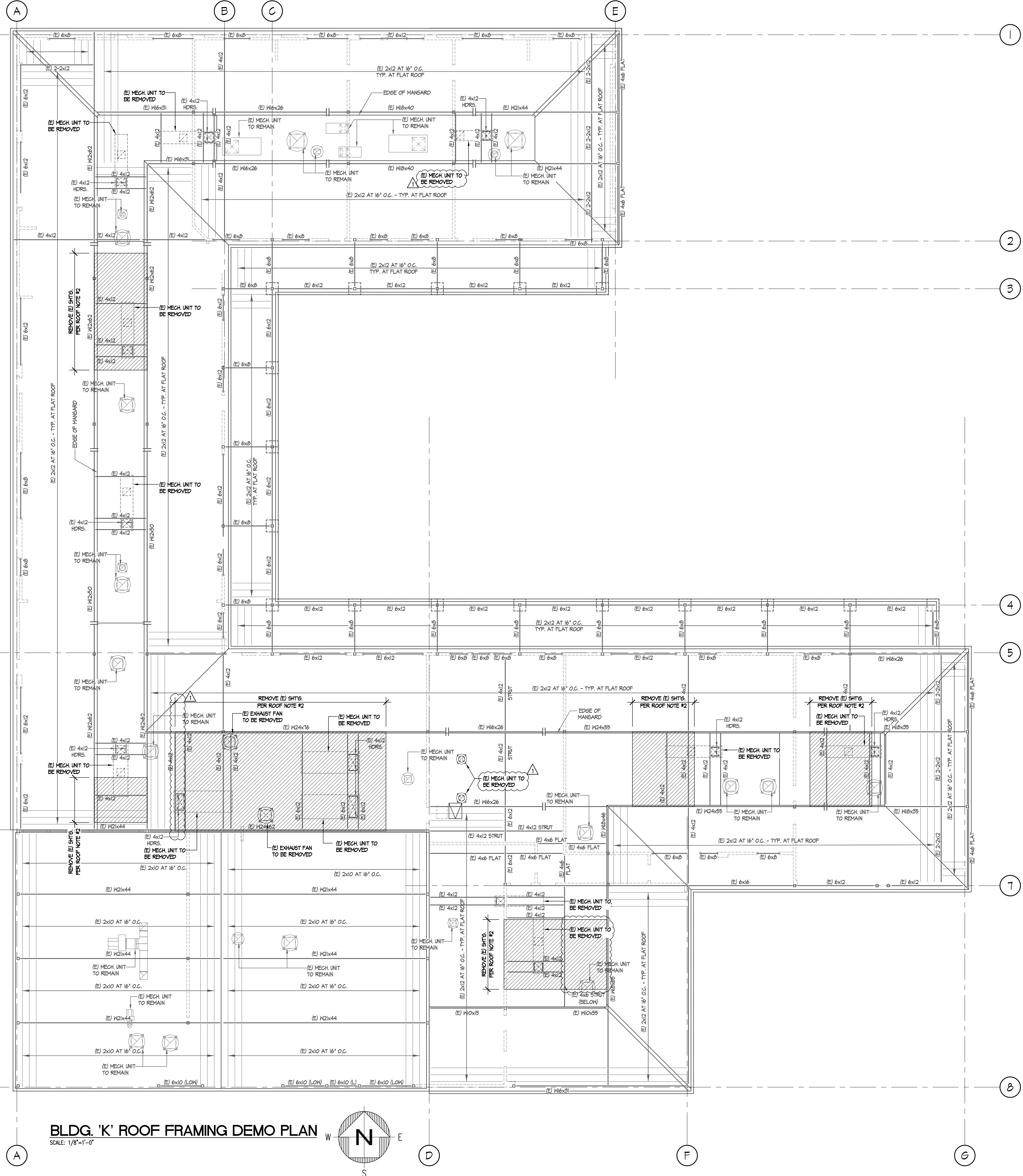
NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1

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DATE: 12/08/2019 SCALE: N.T.S.
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**BUILDING K
ROOF FRAMING
DEMO PLAN**

DRAWING NUMBER: **S2.13**

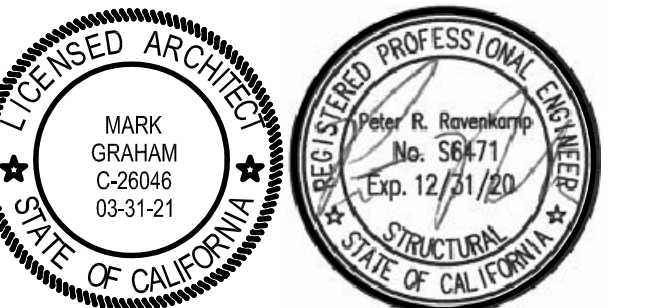




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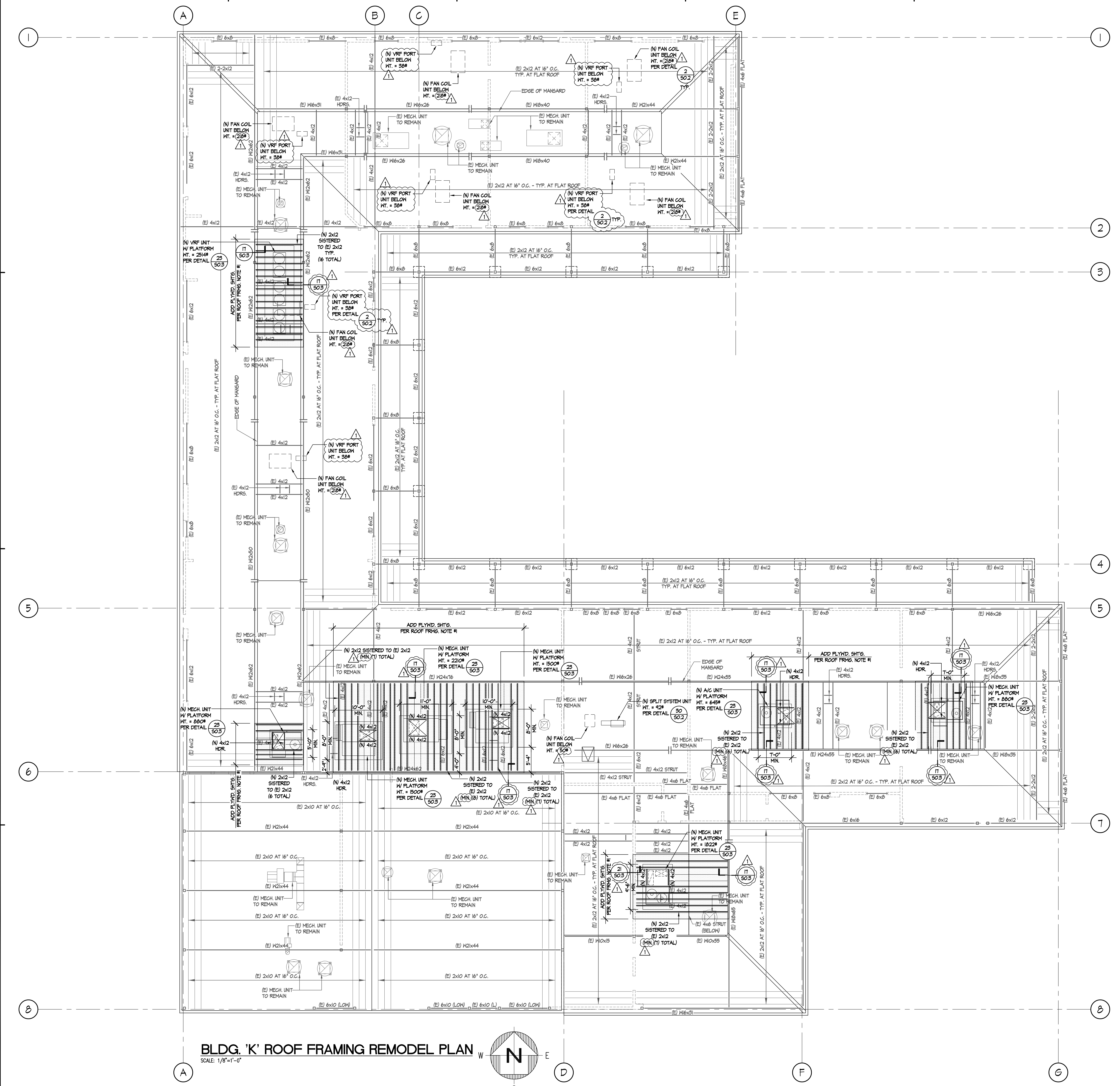
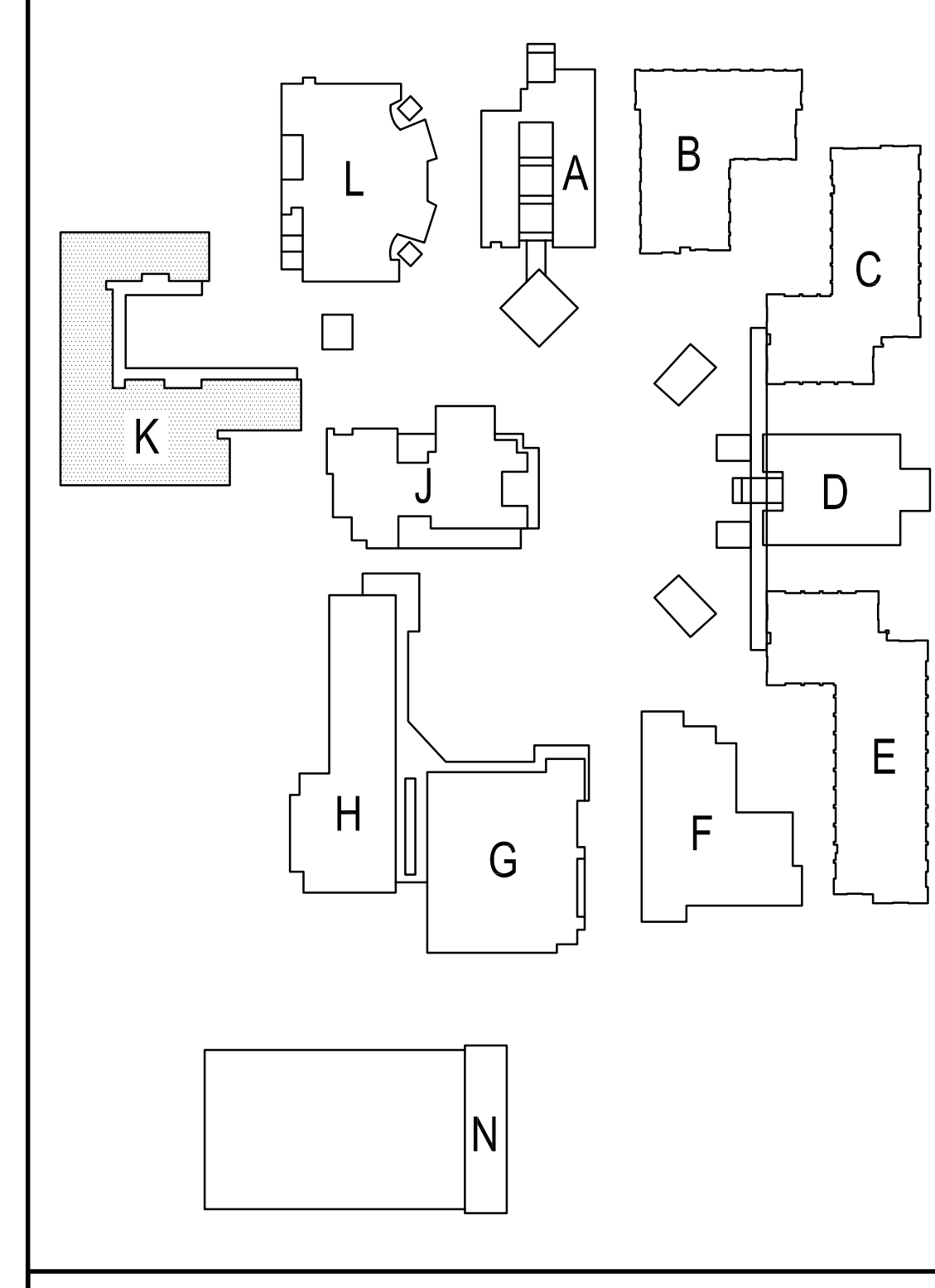
**BUILDING K
ROOF FRAMING
REMODEL PLAN**

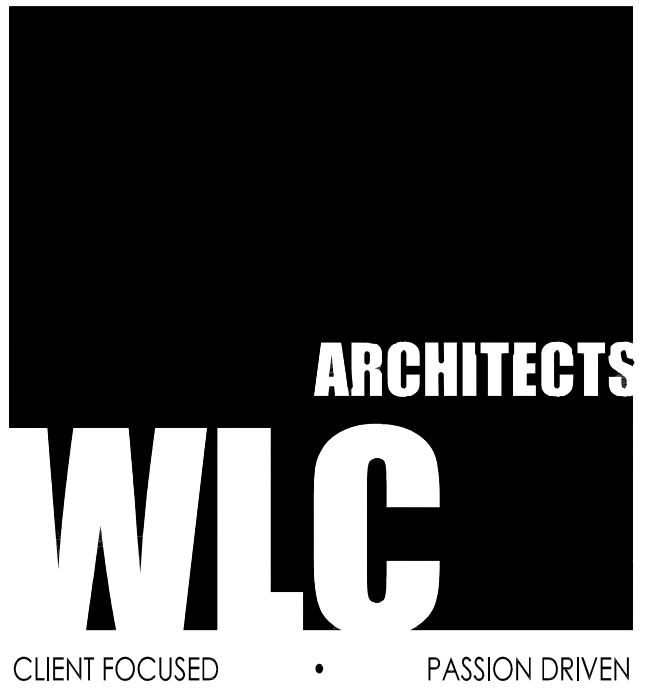
DRAWING NUMBER: **S2.14**

- ROOF FRAMING REMODEL NOTES**
- 1/2" STRUT | PLYWOOD
10d @ 8" O.C. BN
10d @ 8" O.C. EN
10d @ 12" O.C. FN
BLOCK ALL PLYWOOD EDGES. PER DETAIL 4-50.3.
 - ALL RAFTERS DESIGNED AS STRUT SHOULD RECEIVE 2 ROWS 10d NAILS.
 - COORDINATE ALL MECH UNIT LOCATIONS W/ ARCH AND MECHANICAL DRAWINGS.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - PROVIDE (N) 2x FULL DEPTH BLK.G. CONT. EA. END OF (N) JOISTS.
 - (N) PLYWOOD ROOF INFILL PER 14-50.3.

HATCH LEGEND

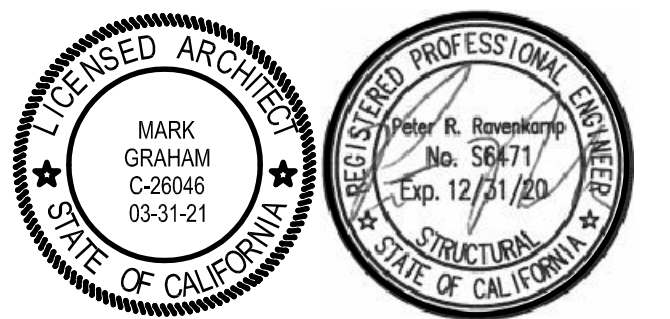
(N) PLYWOOD SHTG. TO MATCH SAME PATTERN AND LAYOUT AS (E) SHTG. SEE ROOF FRAMING NOTES #1.





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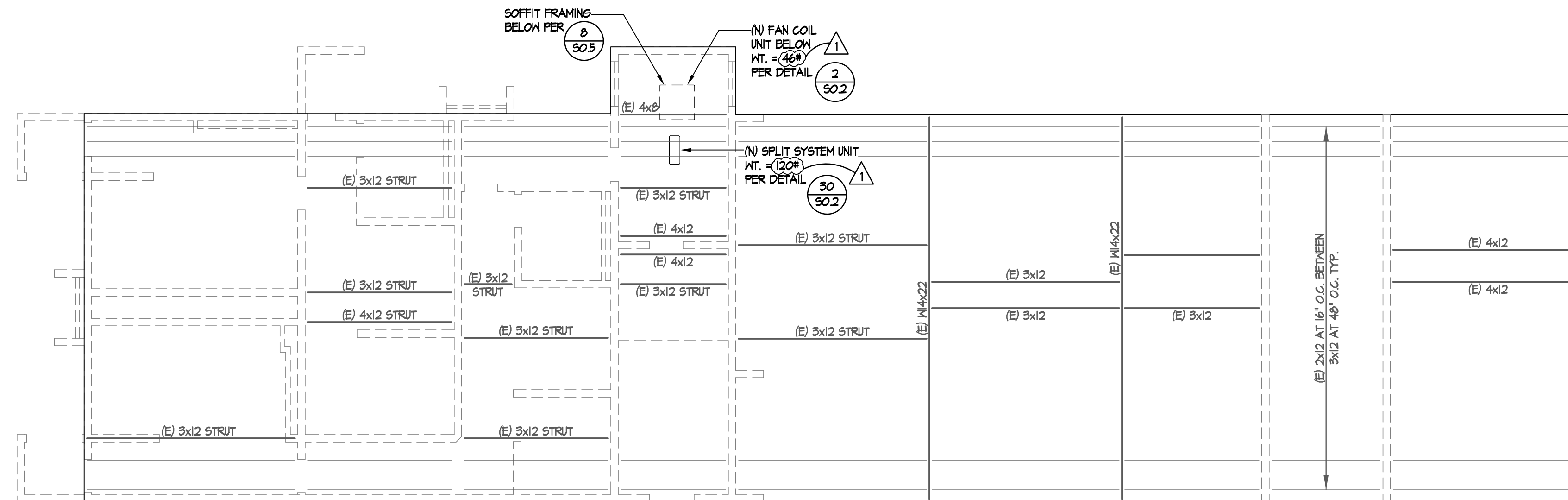
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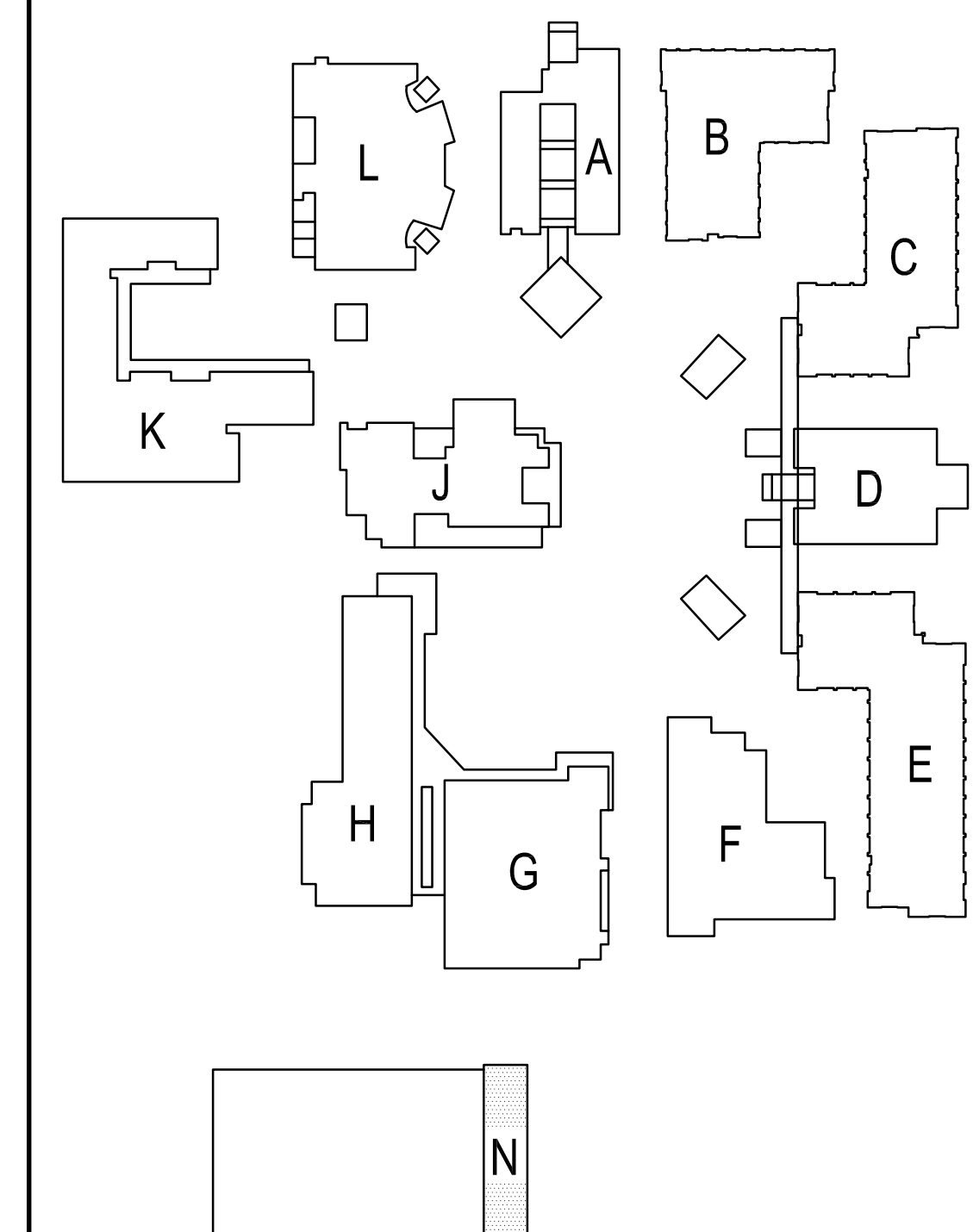
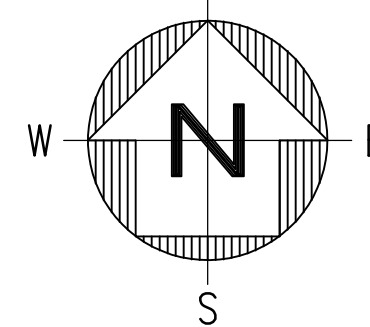
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ROOF FRAMING NOTES

- 1/2" STRUCT. PLYWOOD
10d @ 6" O.C. BN.
10d @ 6" O.C. EN.
10d @ 12" O.C. FN.
BLOCK ALL PLYWOOD EDGES. PER DETAIL 4-50.3.
- (N) ROOF INFILLS TO FOLLOW DETAIL 14-50.3.
- DEMO ALL EXISTING EQUIPMENT, DUCTING, ELECTRICAL, PLUMBING, ETC. MARKED AS DEMO PRIOR TO INSTALLING (N) ITEMS.
- COORDINATE ALL MECH UNIT LOCATIONS W/ ARCH AND MECHANICAL DRAWINGS.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- PROVIDE (N) 2x FULL DEPTH BLK'G CONT. EA. END OF (N) JOISTS/BEAMS



BLDG. 'N' ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	8/25/20	ME	ADDENDUM 1

DRAWN: _____ **CHECKED:** _____
DATE: 12/08/2019 **SCALE:** N.T.S.
PROJECT NUMBER: 20-19-06

**BUILDING N
ROOF FRAMING
PLAN**

DRAWING NUMBER: S2.15

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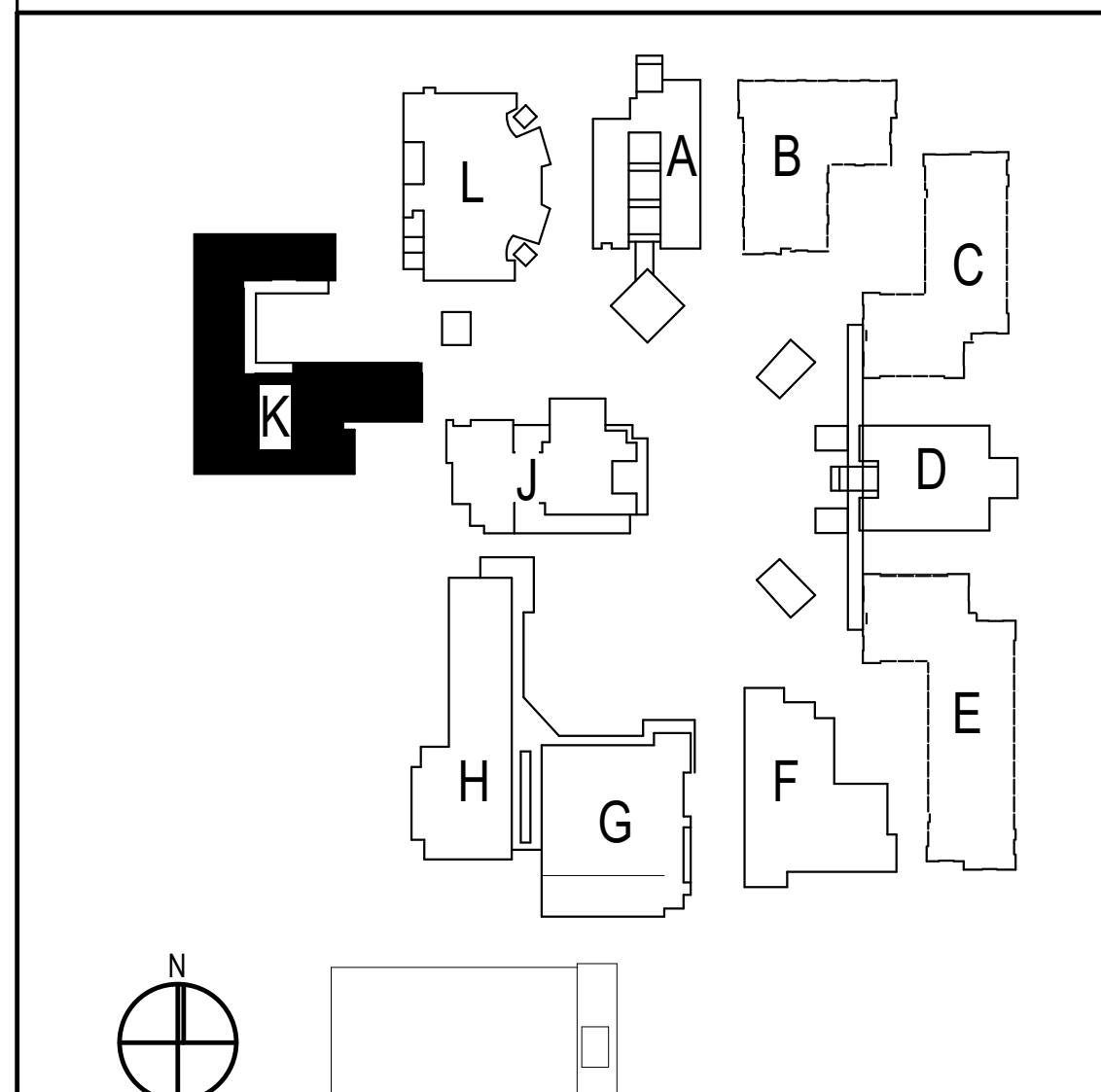
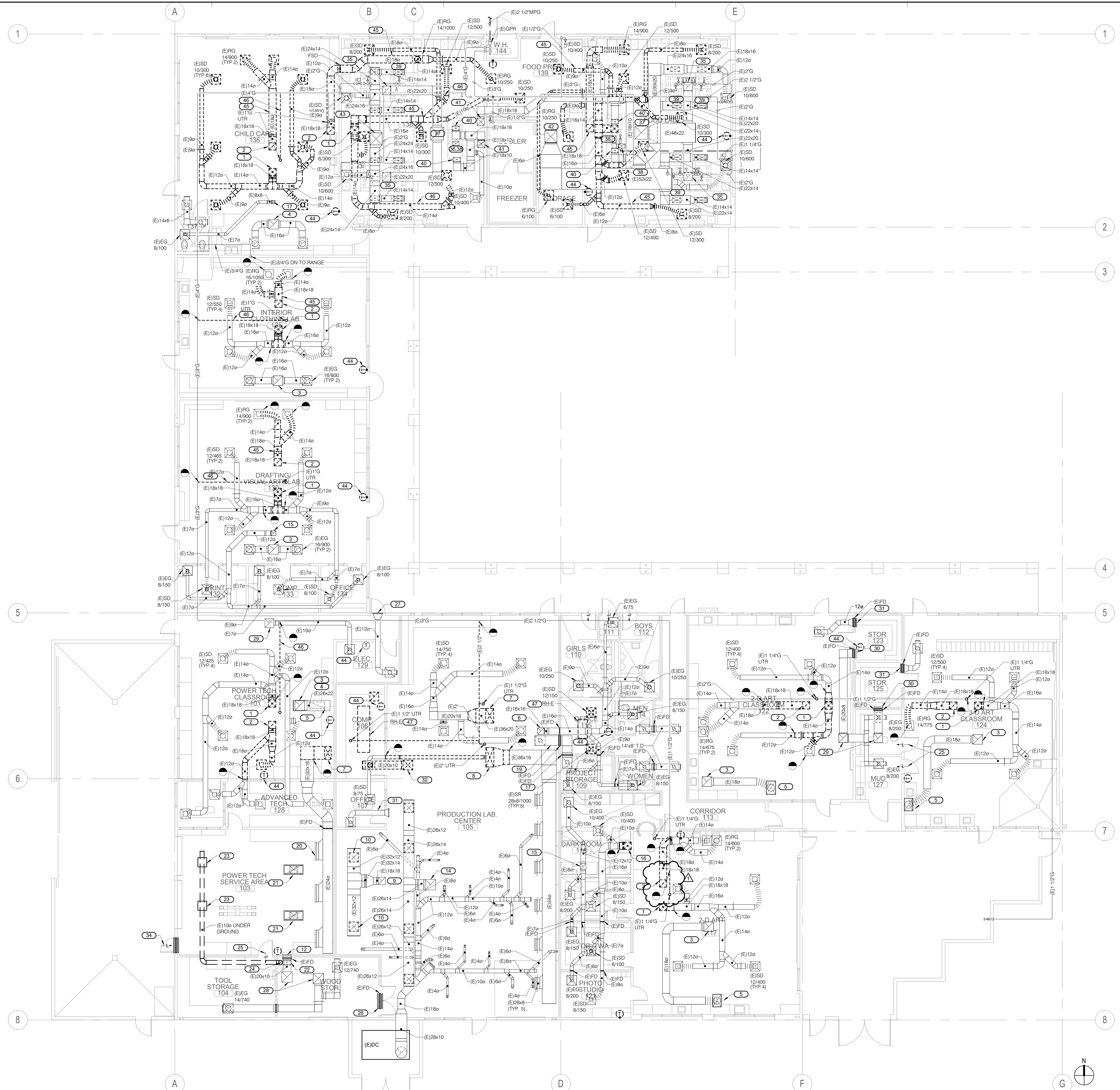
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- EXISTING KEYNOTES:**
- (E)18x18 SA DUCT UTR UP TO MAKE - UP UNIT.
 - (E)18x18 RA DUCT UTR UP TO MAKE - UP UNIT.
 - (E)32x22 RELIEF VENTILATOR 24x24 THROAT SIZE WITH PRE-FAB ROOF CURB & BACK DRAFT DAMPER.
 - (E)24x24 DUCT DOWN TO FLENUM.
 - (E)32x22 RETURN AIR GILLE.
 - (E)16x16 EA DUCT UTR TO EF ON ROOF.
 - (E)38x20 SA DUCT UTR UP TO MAKE - UP UNIT.
 - (E)48x20 SA DUCT UTR UP TO MAKE - UP UNIT.
 - (E)18x18 EA DUCT UTR TO EF ON ROOF.
 - (E)30x30 EXHAUST AIR REGISTER.
 - (E)32x20 EXHAUST AIR REGISTER.
 - (E)26x26 EA DUCT UTR TO EF ON ROOF.
 - (E)12x12 EA DUCT UTR TO EF ON ROOF.
 - (E)18x18 SA DUCT UP TO UNIT.
 - (E)8x8 EA DUCT UTR TO EF ON ROOF.
 - (E)20x10 TRANSFER DUCT.
 - (E)48x24 EXHAUST AIR REGISTER 1000 CFM (TYP. 3).
 - (E)48x24 EXHAUST AIR REGISTER.
 - (E)20x10 EA DUCT DOWN.
 - (E)30x30 EXHAUST AIR REGISTER.
 - (E)10" EXHAUST UTR.
 - INDOOR LOUVER.
 - (E)38x107 G. BOTH SIDES W/FIRE DAMPER.
 - (E)28x26 EXHAUST DUCT UTR.
 - (E)22x22 EXHAUST DUCT UTR.
 - (E)20x8 EXHAUST AIR GRILLE 250 CFM.
 - (E)20x10 TRANSFER AIR GRILLE.
 - (E)GRAVITY INTAKE HOOD 14x14 THROAT SIZE W/PREFAB ROOF CURB.
 - (E)MOTORIZED LOUVER - MIN. 4" FREE AREA PROVIDE W/PROTECTOR SCREEN.
 - (E)20x20 16 GAUGE MINIMUM, ALL WELDED EXHAUST DUCT DOWN TO KITCHEN HOOD EXHAUST CONNECTION. BALANCE TO 5500 CFM.
 - (E)16x10 16 GAUGE MINIMUM, ALL WELDED EXHAUST DUCT DOWN TO KITCHEN HOOD EXHAUST CONNECTION. BALANCE TO 2000 CFM.
 - (E)32x32 16 GAUGE ALL WELDED EXHAUST DUCT UP.
 - (E)18x18 16 GAUGE ALL WELDED EXHAUST DUCT UP.
 - (E)22x12 MJA DUCT CONNECTION TO KITCHEN HOOD.
 - (E)18x10 MJA DUCT CONNECT TO KITCHEN HOOD.
 - (E)18x18 MAKE - UP AIR DUCT UP TO ROOF.
 - (E)30x30 MAKE - UP AIR DUCT UP TO ROOF.
 - (E)30x30 TO (E)30x20 RADIUS TEE.

- DEMOLITION KEYNOTES:**
- DEMOLISH EXISTING TEMPERATURE CONTROL DEVICE, WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING. TYPICAL.
 - DEMOLISH EXISTING AIR REGISTERS, DUCTWORK, SUPPORTS AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL FOR PATCHING. TYPICAL.
 - DEMOLISH EXISTING PIPING, VALVES, SUPPORTS, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL FOR PATCHING. TYPICAL.
 - DEMOLISH EXISTING RADIANT HEATERS, SUPPORTS, AND RELATED APPURTENANCES.



1	08/25/20	CG	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: CDG
DATE: Issue Date
PROJECT NUMBER: Project Number

CHECKED: JMM
SCALE: 1/8" = 1'-0"
NUMBER

**BUILDING K
DEMOLITION
FLOOR PLAN**

DRAWING NUMBER: **MPK2.0**

BUILDING K DEMOLITION FLOOR PLAN 1/8" = 1'-0" 1

SITE KEY PLAN

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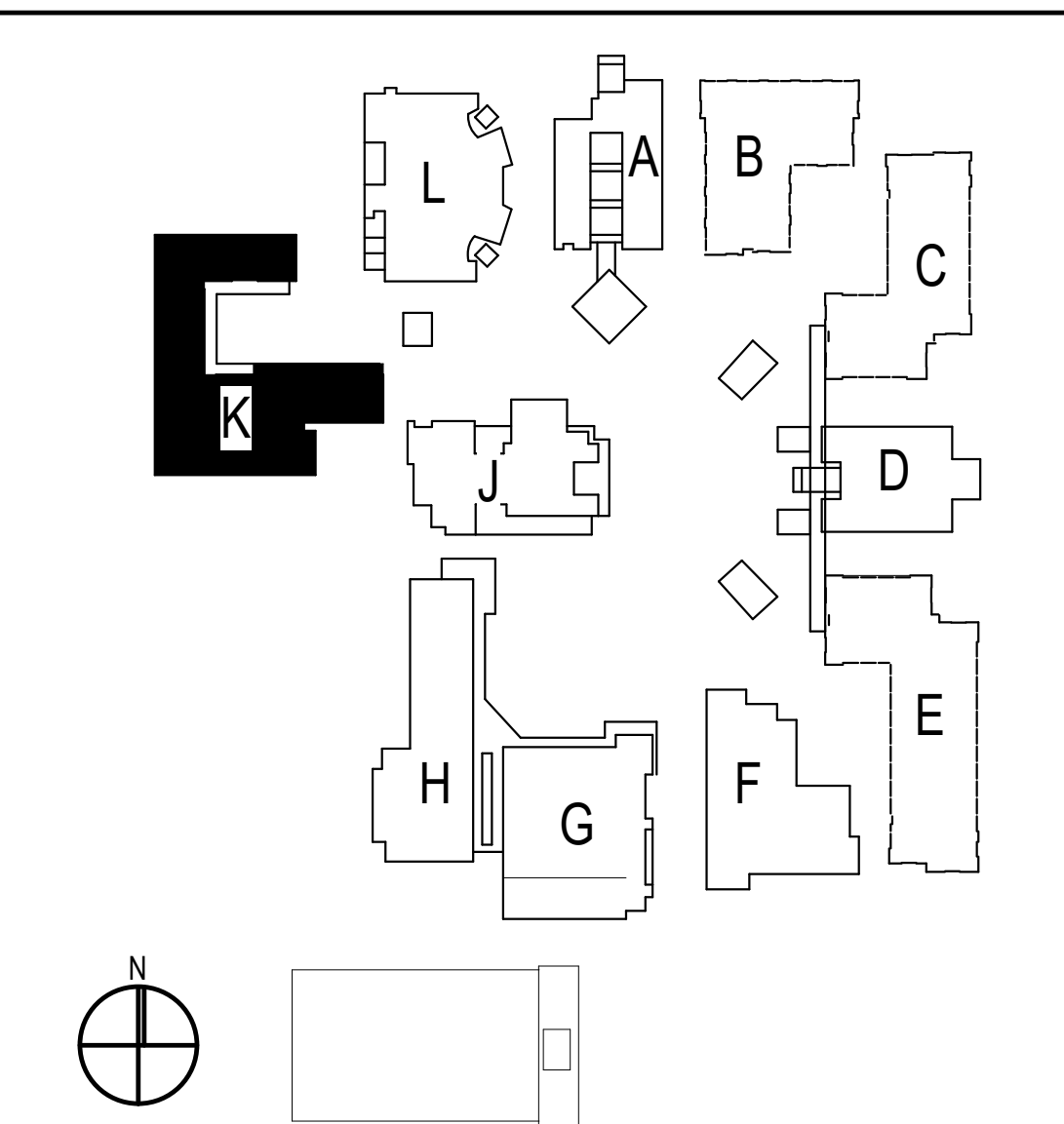
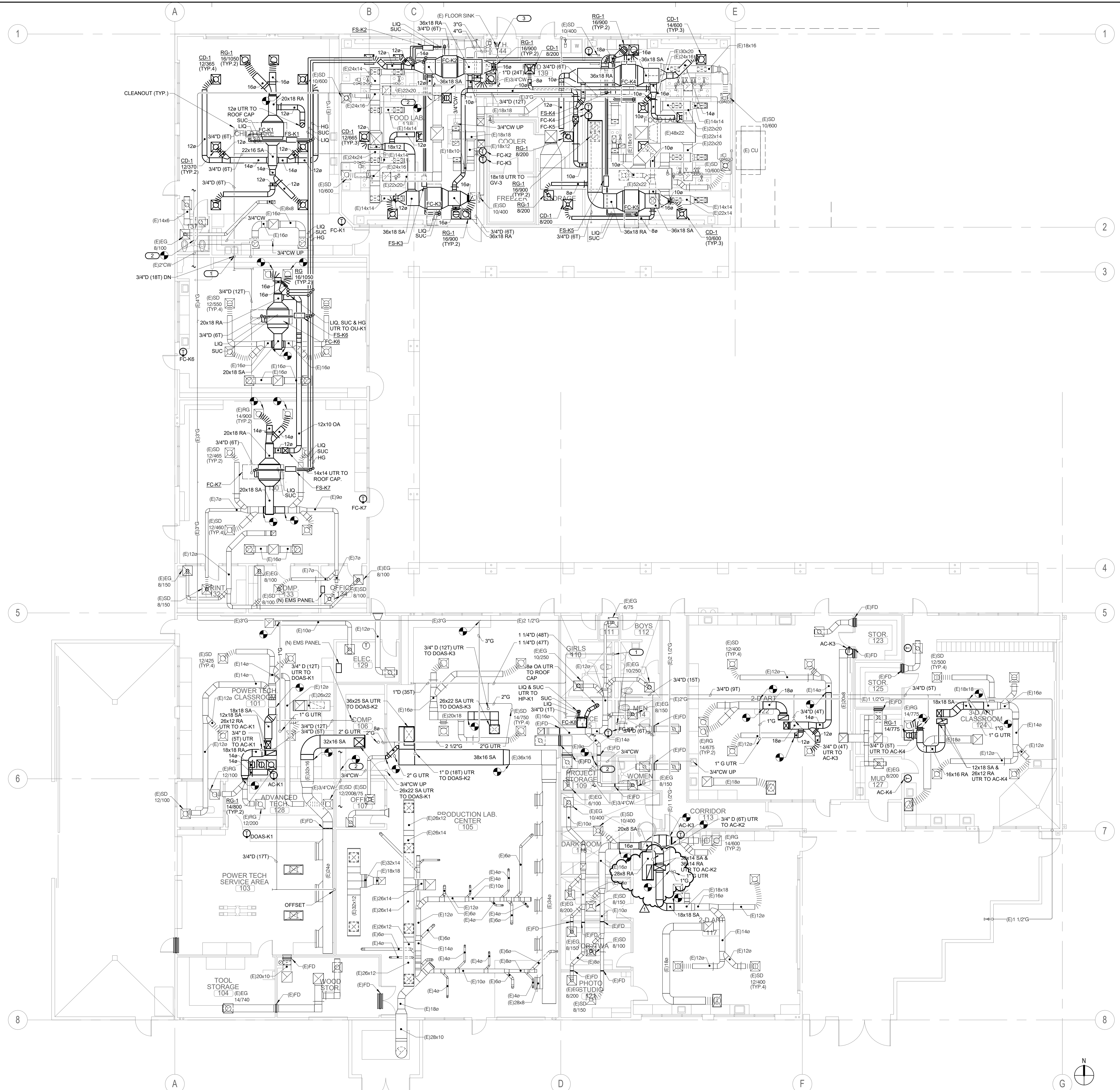
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- REMODEL KEYNOTES: #**
1. OFFSET CONDENSATE INTO WALL, INDIRECT TO MOP SINK PER 6/MP4.4
 2. P.O.C. 3/4" CW LINE TO (E) CW LINE, CHECK DRAWING AND V.I.F. SIZE OF (E) CW PIPE SIZE.
 3. OFFSET CONDENSATE INTO WALL, INDIRECT TO FLOOR SINK.

- REMODEL GENERAL NOTES:**
1. BALANCE OUTSIDE AIR DAMPERS TO O.A. CFM LISTED ON MP3.3
 2. ADJUST AND MAKE REPAIRS TO EXISTING VOLUME DAMPERS AS REQUIRED TO PROVIDE SPECIFIED AIR BALANCE AND MAKE A COMPLETE AND OPERATIONAL SYSTEM. TYPICAL.
 3. CONTRACTOR SHALL MAKE REPAIRS TO EXISTING DUCTWORK, DUCTWORK SUPPORTS AND DUCT INSULATION AS REQUIRED TO MAKE A COMPLETE AND OPERATIONAL SYSTEM. TYPICAL.
 4. CONTRACTOR SHALL ADJUST AND MAKE REPAIRS TO EXISTING AIR DEVICES AS REQUIRED TO MAKE A COMPLETE AND OPERATIONAL SYSTEM. TYPICAL.
 5. INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL.
 6. FOR DUCT SUPPORT DETAIL, SEE DETAIL 10/MP4.2
 7. FOR DUCT CONNECTION TO CEILING AIR DEVICES, SEE DETAIL 11/MP4.2
 8. FOR VOLUME DAMPER, SEE DETAIL 3/MP4.3
 9. FOR PIPE THROUGH RATED WALL, REFER TO DETAIL 5/MP4.3
 10. FOR FIRE/SMOKE DAMPER, SEE DETAIL 6/MP4.3
 11. FOR SINGLE PIPE HANGER, SEE DETAIL 5/MP4.3
 12. FOR HANGERS THROUGH WALL, SEE DETAIL 3/MP4.3
 13. FOR CONDENSATE CONNECTION TO LAVATORY, SEE DETAIL 1/MP4.4
 14. PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED.



BUILDING K REMODEL FLOOR PLAN 1/8" = 1'-0" 1

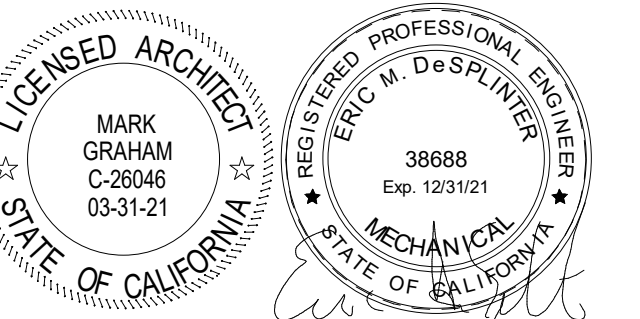
SITE KEY PLAN

1	08/25/20	CG	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: CDG CHECKED: JMM
DATE: Issue Date SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project Number

**BUILDING K
REMODEL FLOOR
PLAN**

DRAWING NUMBER: **MPK2.1**

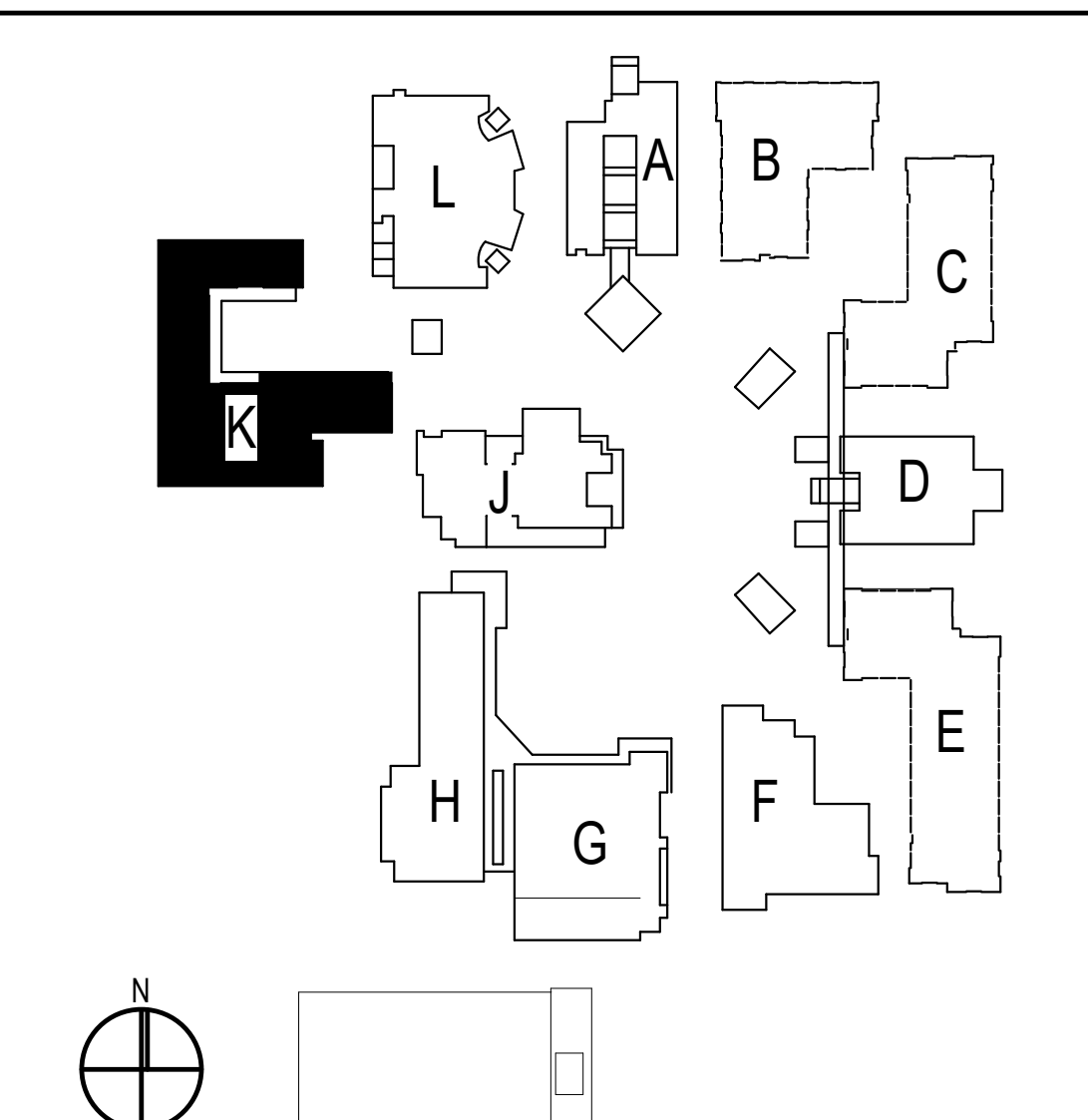
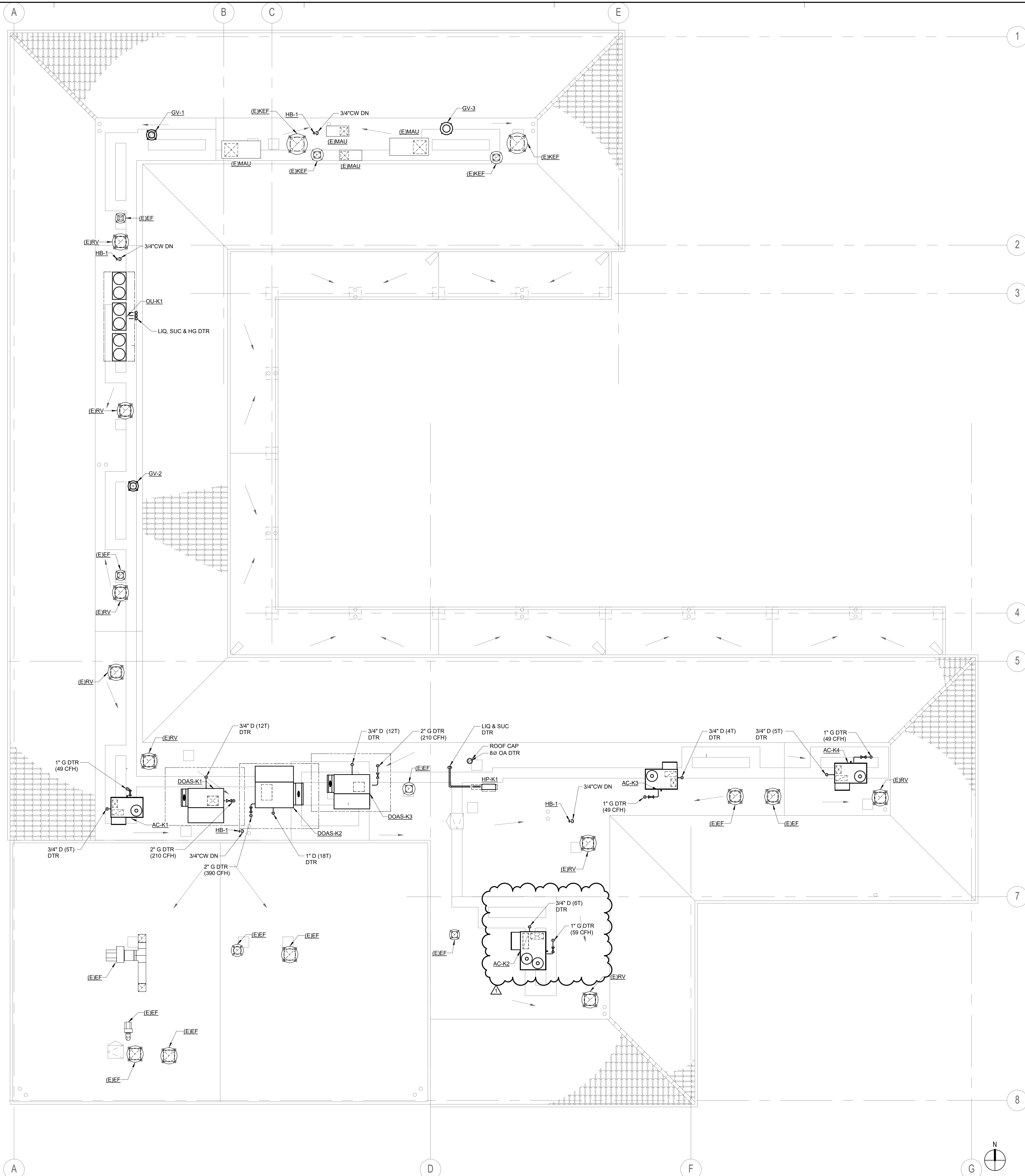


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NO	DATE	BY	DESCRIPTION
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DATE: Issue Date		SCALE: 1/8" = 1'-0"	
PROJECT NUMBER:		Project Number	

**BUILDING K
REMODEL ROOF
PLAN**

DRAWING NUMBER: **MPK3.1**

- REMODEL GENERAL NOTES:**
1. MAINTAIN MIN. 10 FT. FROM OA INTAKES AND PLUMBING VENTS. RELOCATE EXISTING PLUMBING VENTS AS REQUIRED.
 2. FOR NATURAL GAS CONNECTION TO THE EQUIPMENT, SEE DETAIL 1/MP4.4.
 3. FOR CONDENSATE CONNECTION TO THE EQUIPMENT, SEE DETAIL 3/MP4.4.
 4. FOR ROOF MOUNTED HOSE BIBS, SEE DETAIL 4/MP4.4.
 5. FOR PIPE THRU ROOF, SEE DETAIL 3/MP4.4.
 6. FOR REFRIGERANT PIPE SUPPORT ON ROOF, SEE DETAIL 4/MP4.2.
 7. FOR REFRIGERANT PIPE THRU ROOF, SEE DETAIL 2/MP4.2.
 8. FOR ROOF CAP MOUNTING DETAIL, SEE DETAIL 9/MP4.1.



BUILDING K REMODEL ROOF PLAN 1/8" = 1'-0" 1

SITE KEY PLAN

08/25/20 10:52 AM
 C:\Users\jmm\OneDrive\Projects\MPK3.1\MPK3.1.dwg
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LICENSED ARCHITECT
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C-26946
03-31-21
REGISTERED PROFESSIONAL ENGINEER
ERIC W. DESSLER
EIP-129121
MECHANICAL
STATE OF CALIFORNIA
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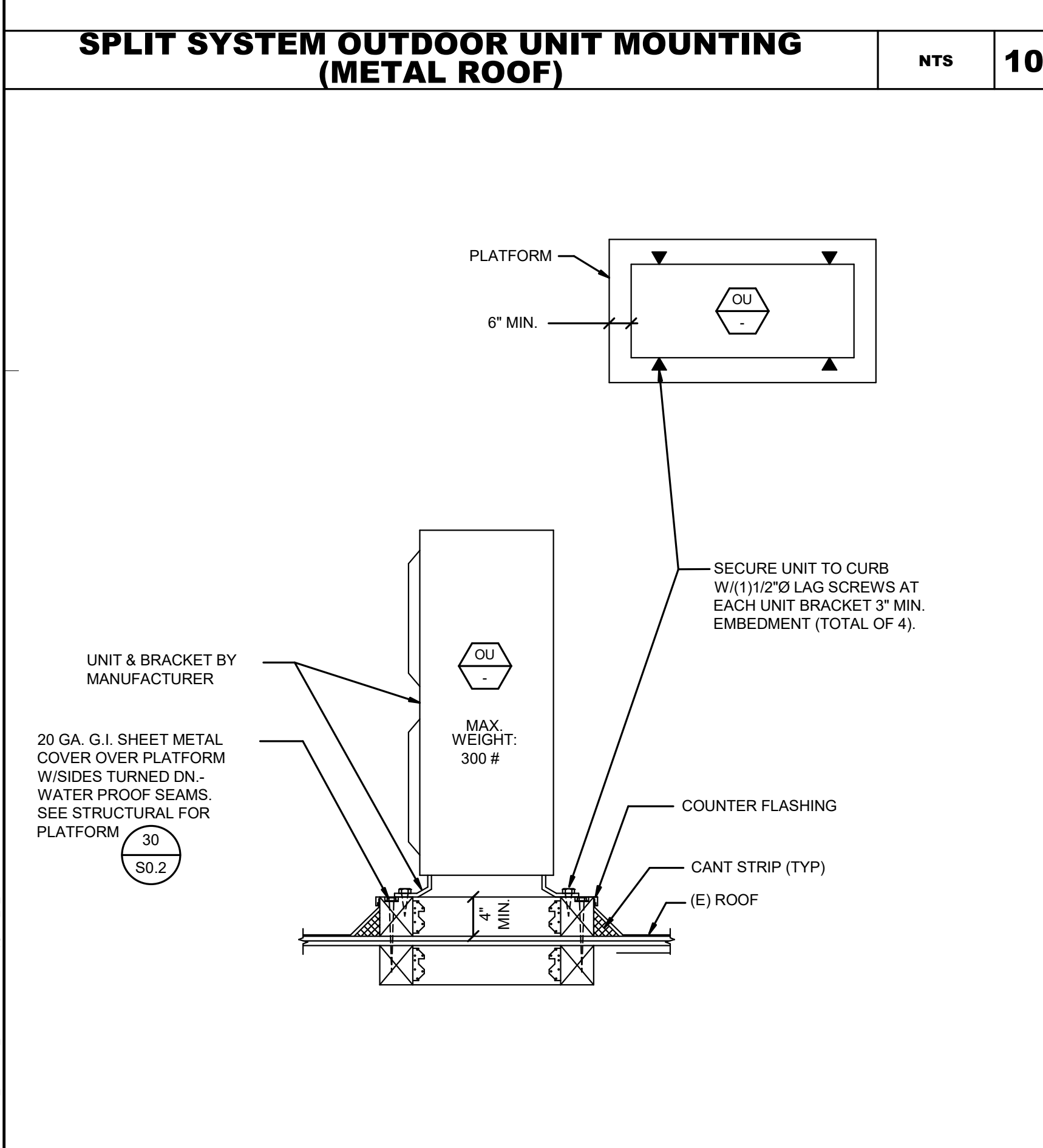
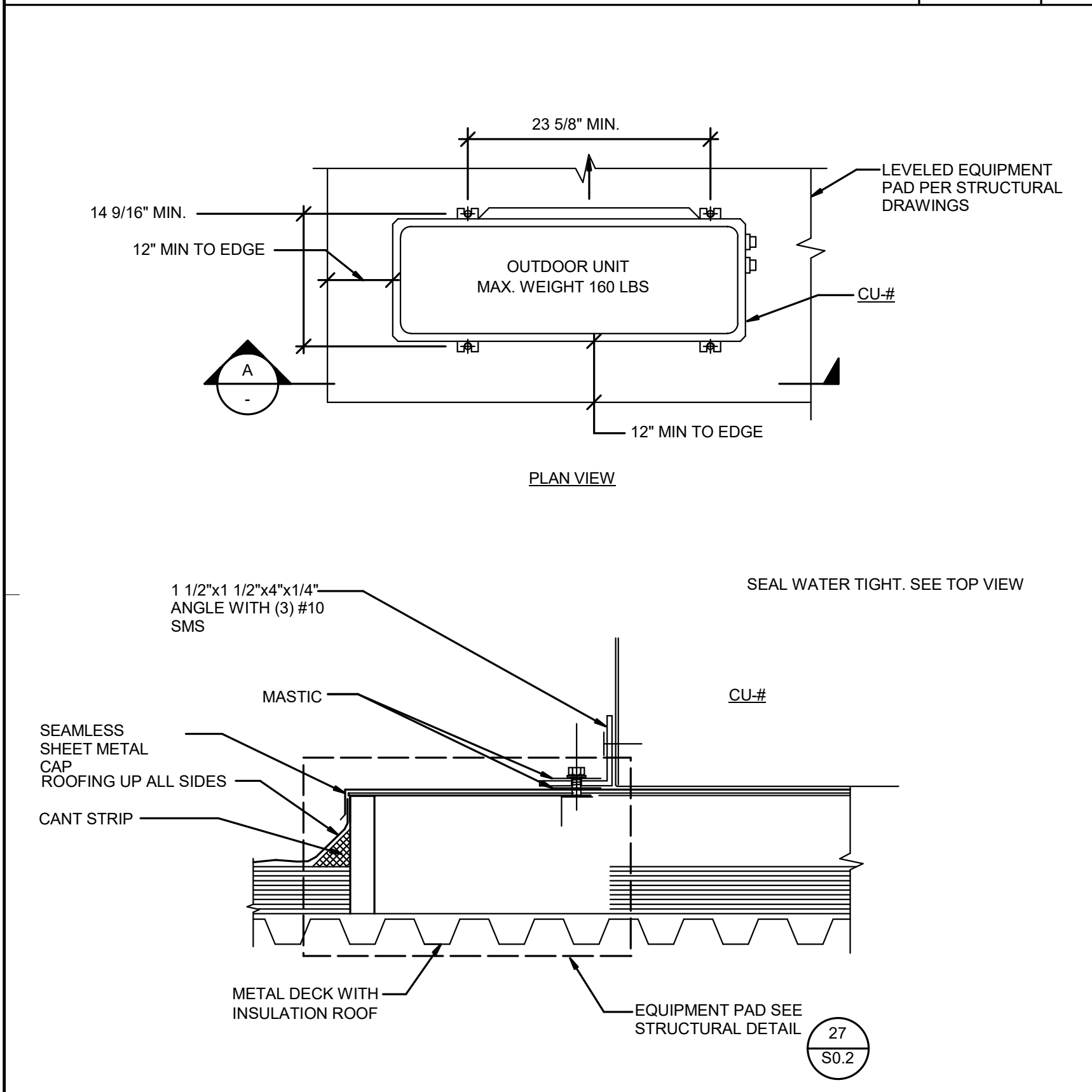
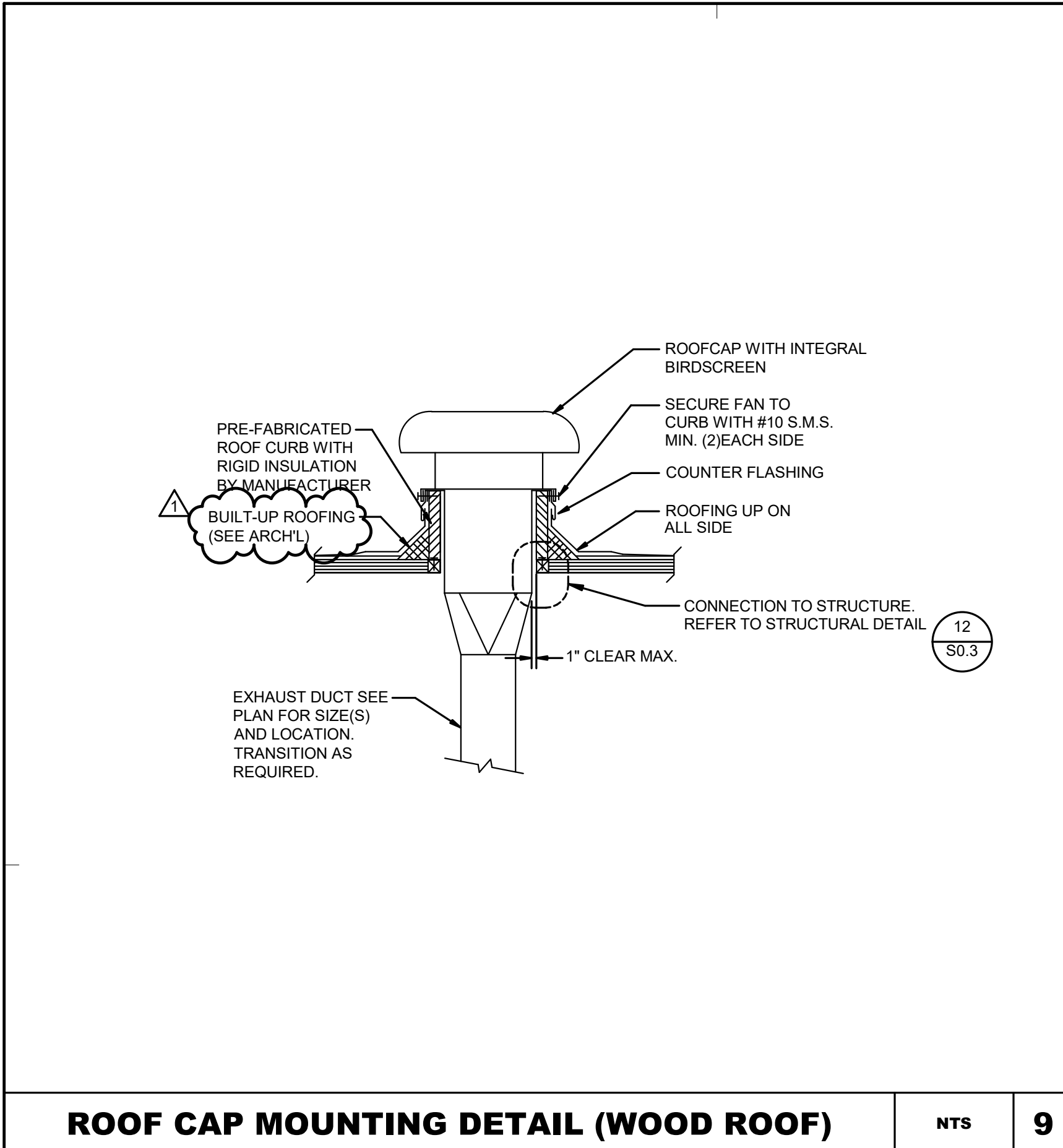
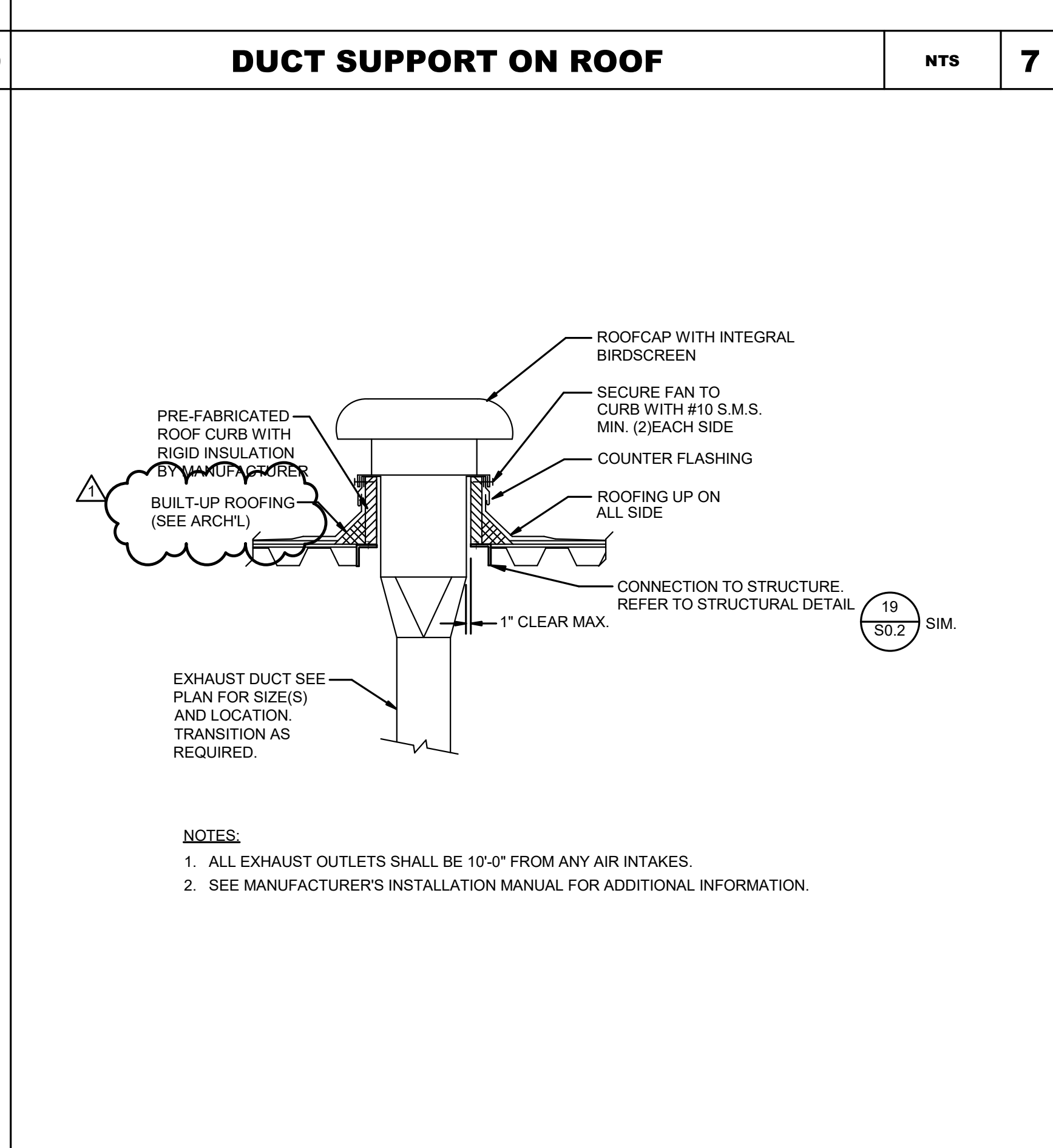
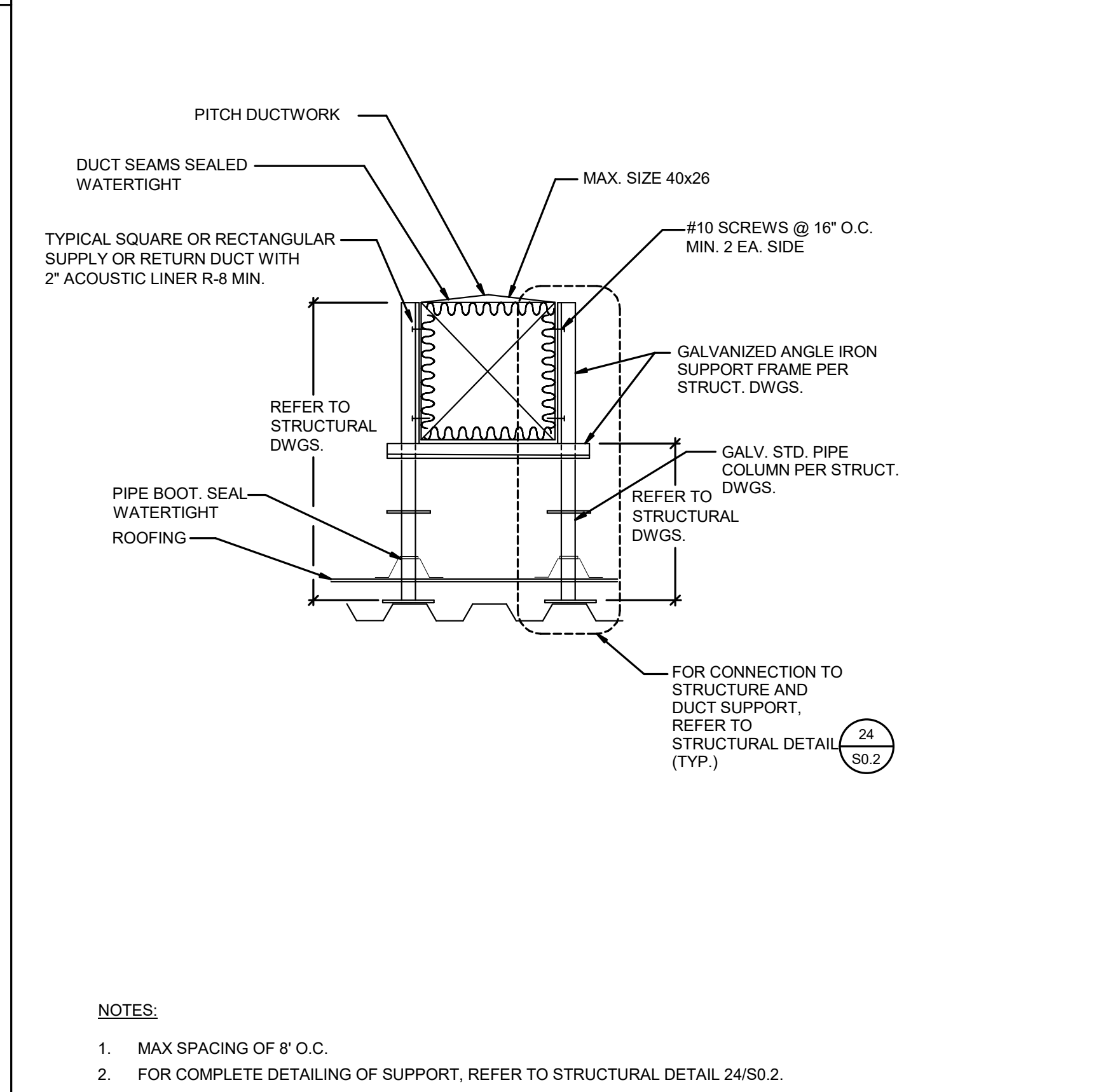
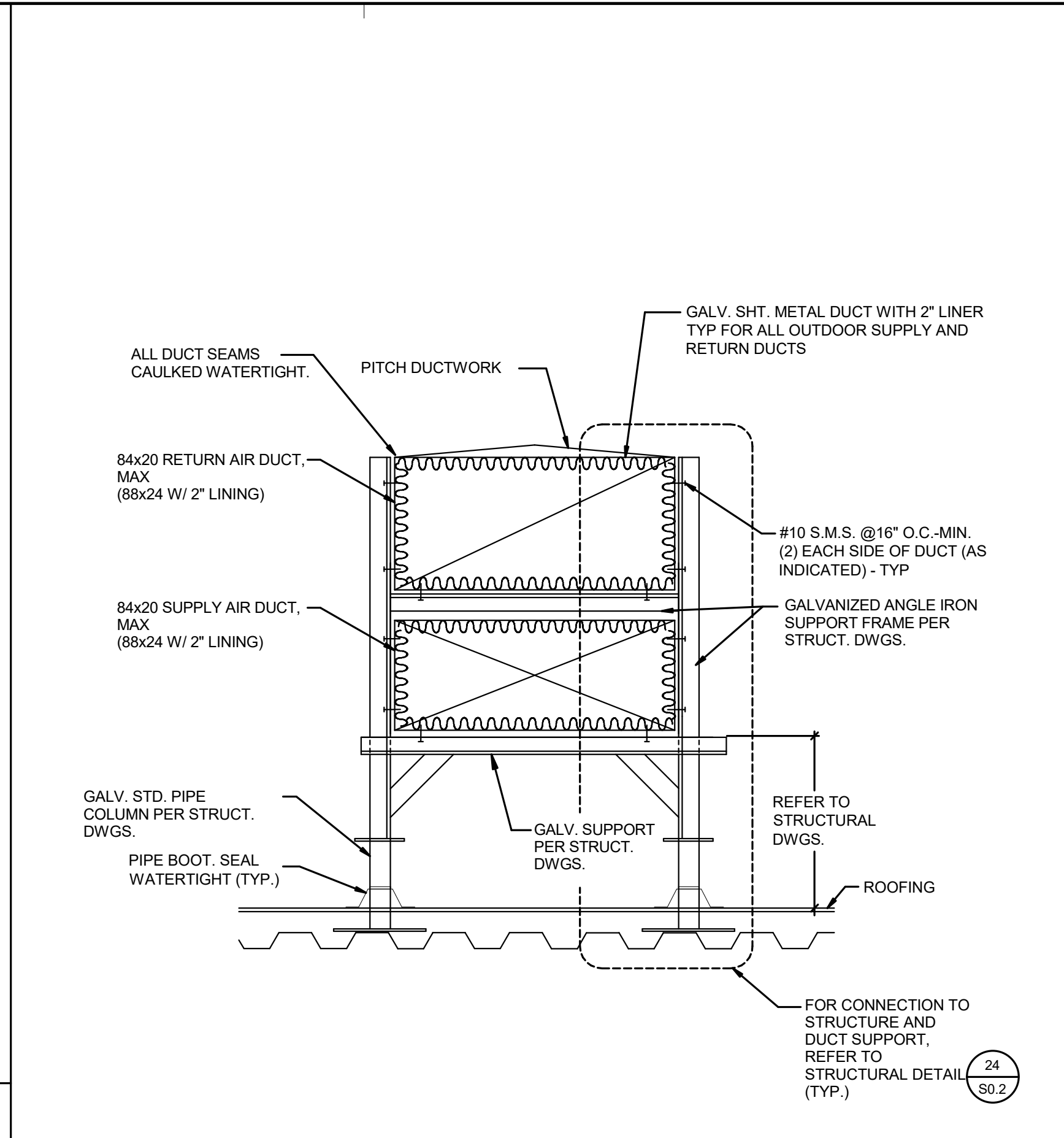
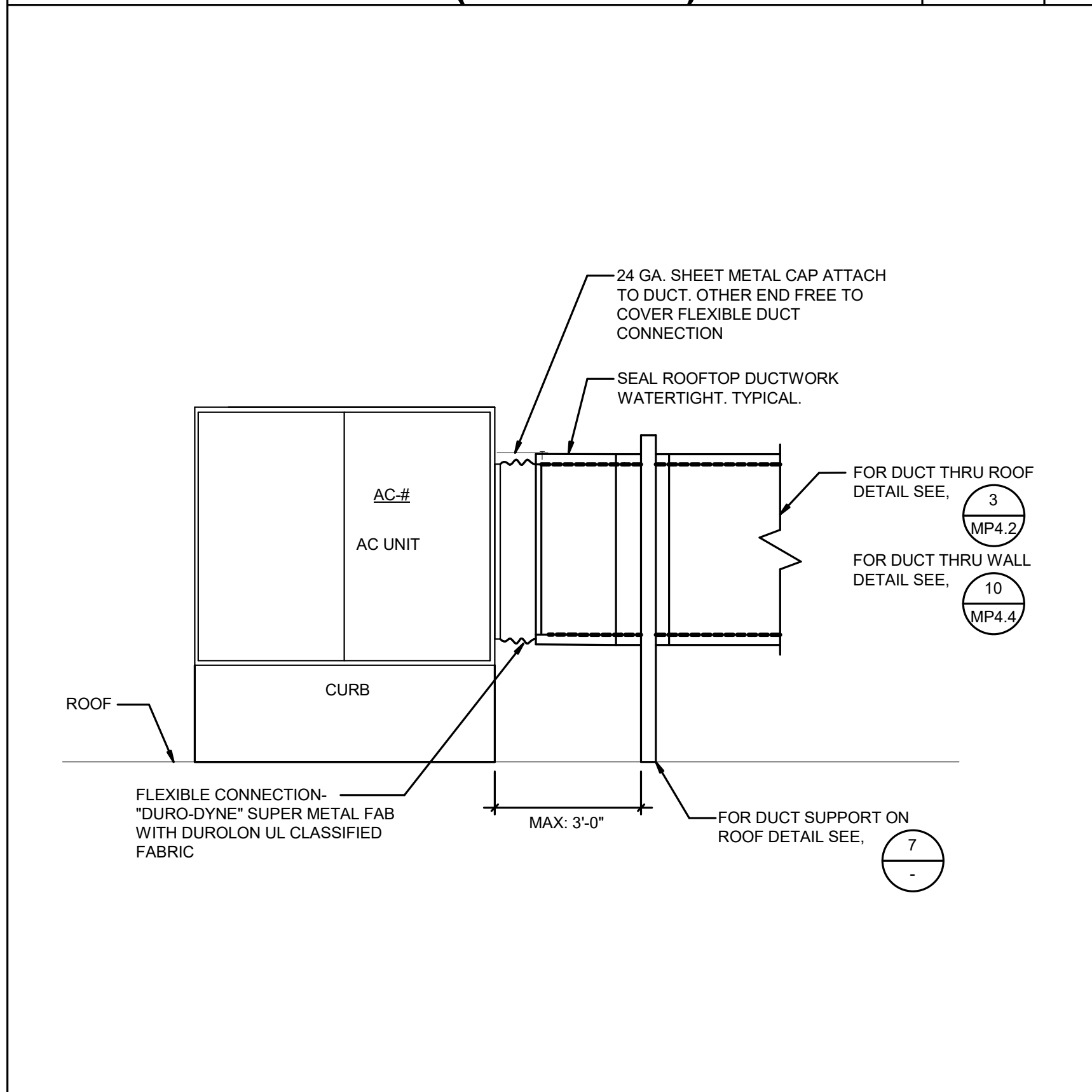
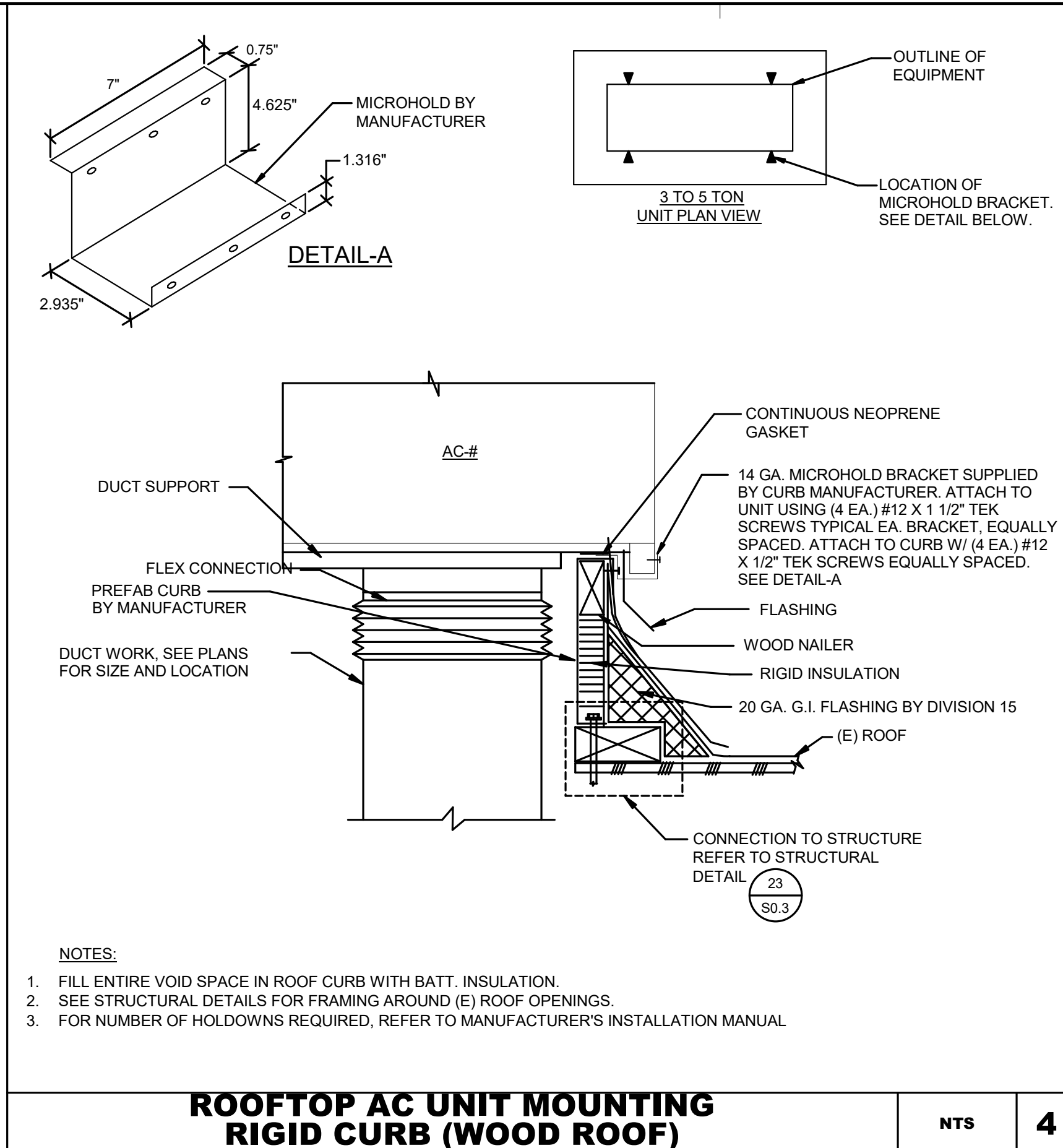
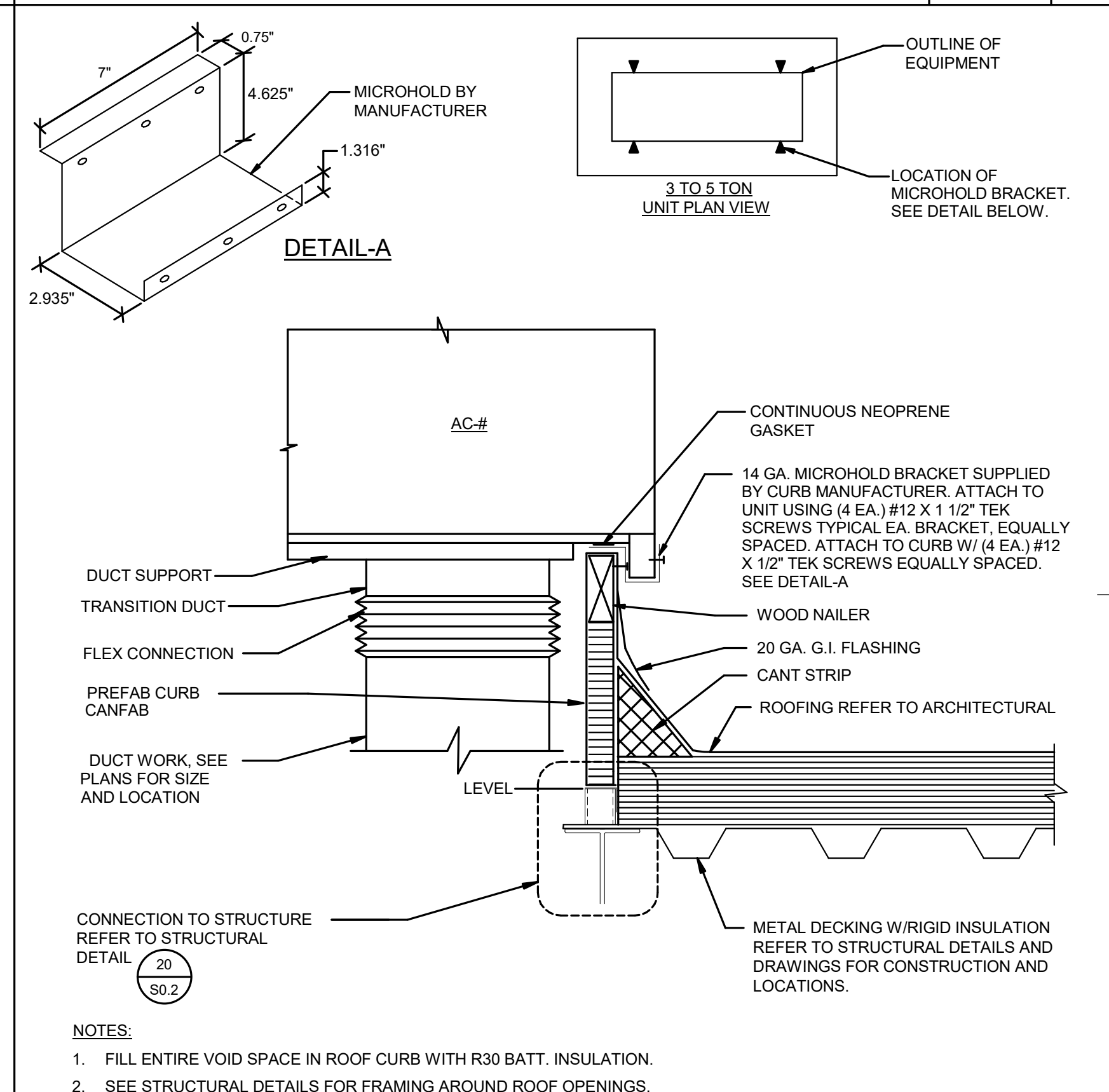
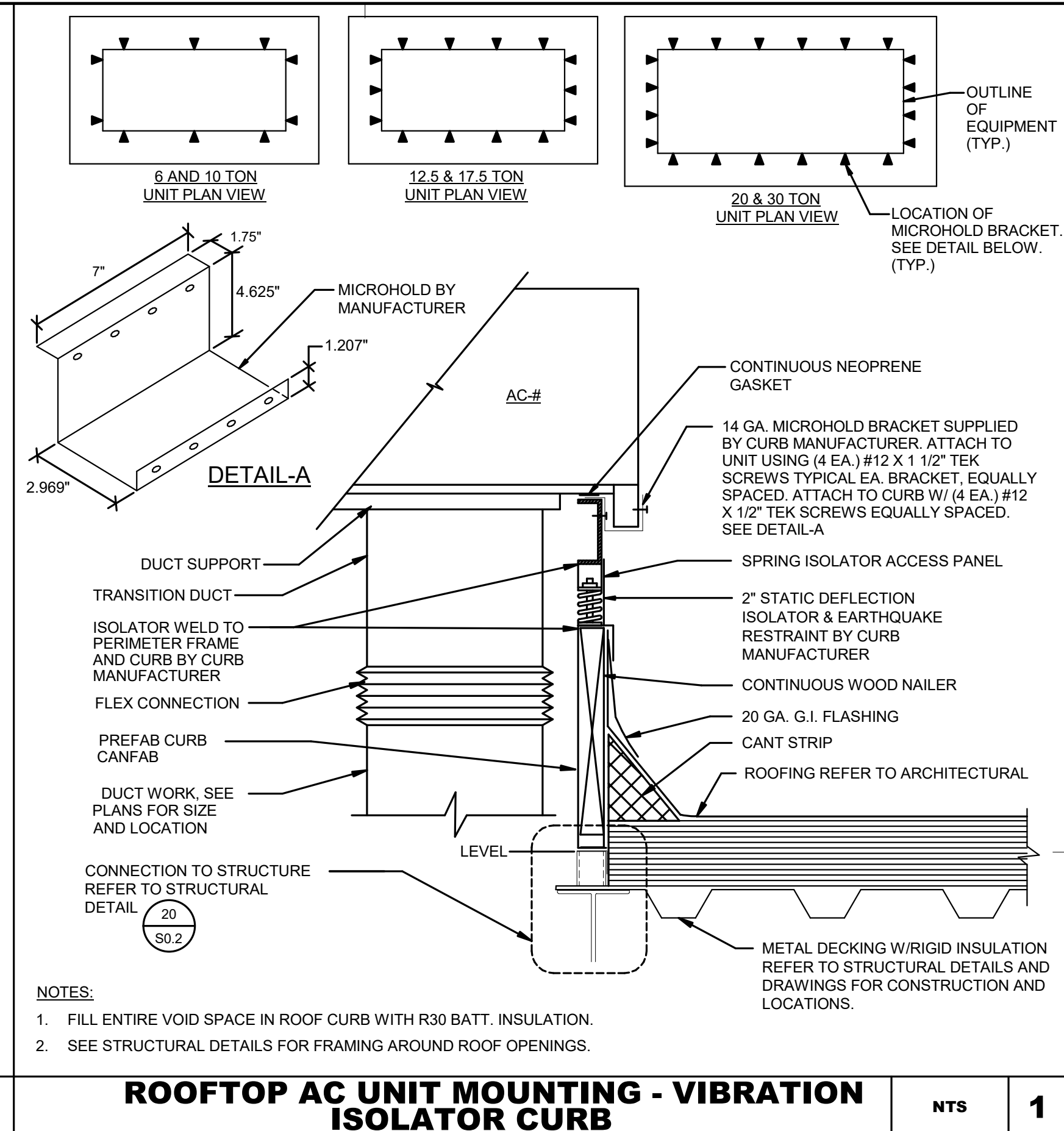
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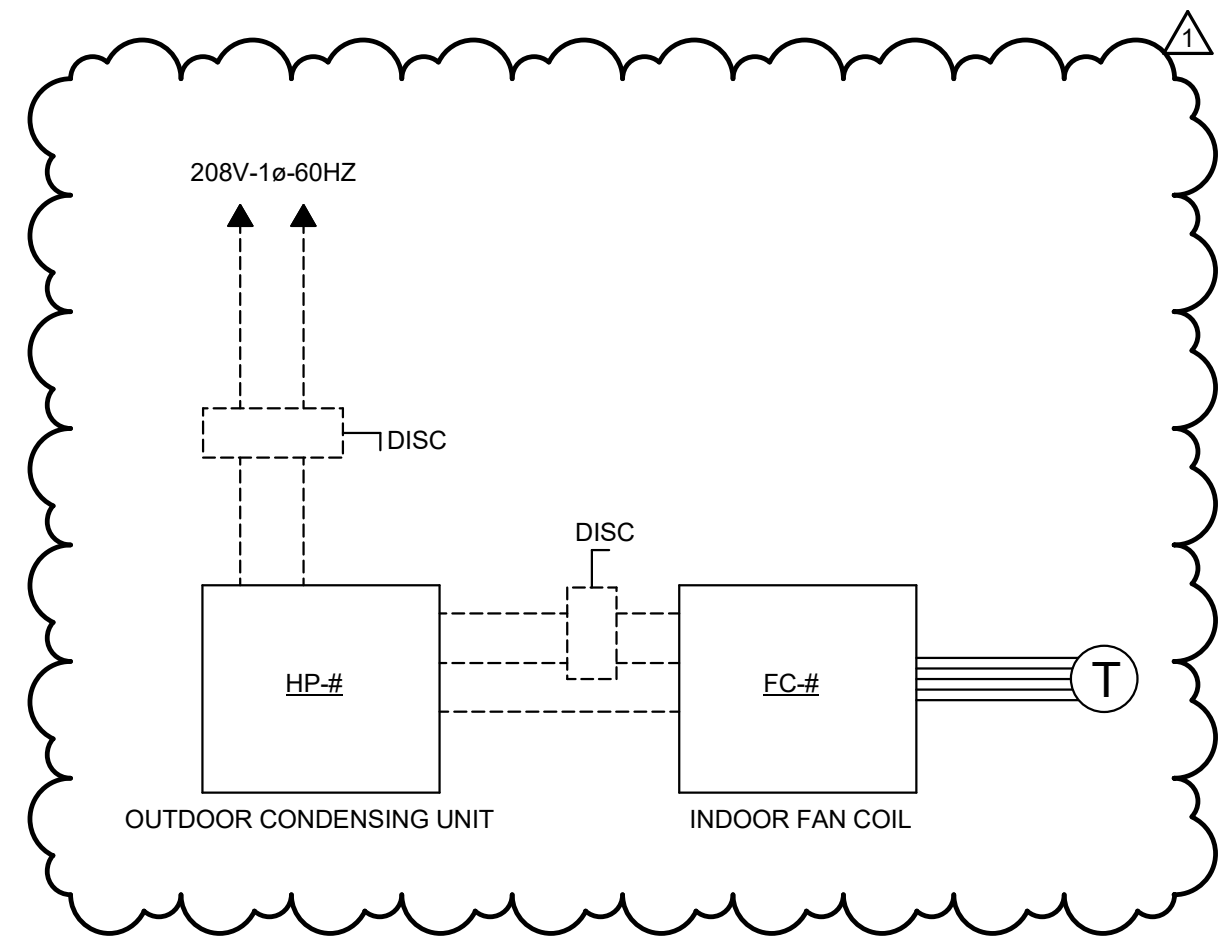
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NO	DATE	BY	DESCRIPTION
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DETAILS

DRAWING NUMBER: **MP4.1**

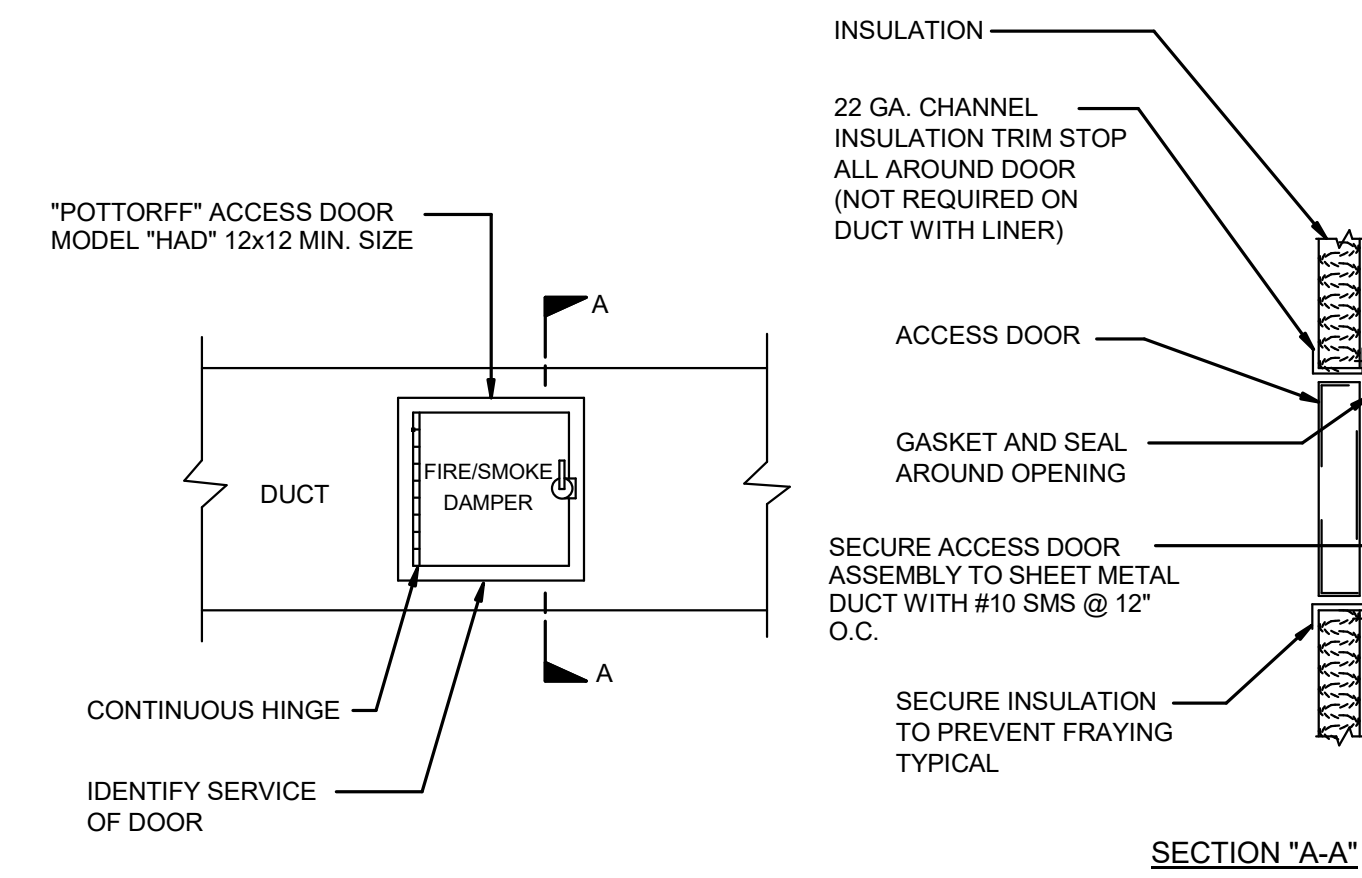




NOTES:
1. FOR WIRING NOTES, SEE LEGEND #1 ON THIS SHEET

SPLIT SYSTEM CONTROL WIRING DIAGRAM

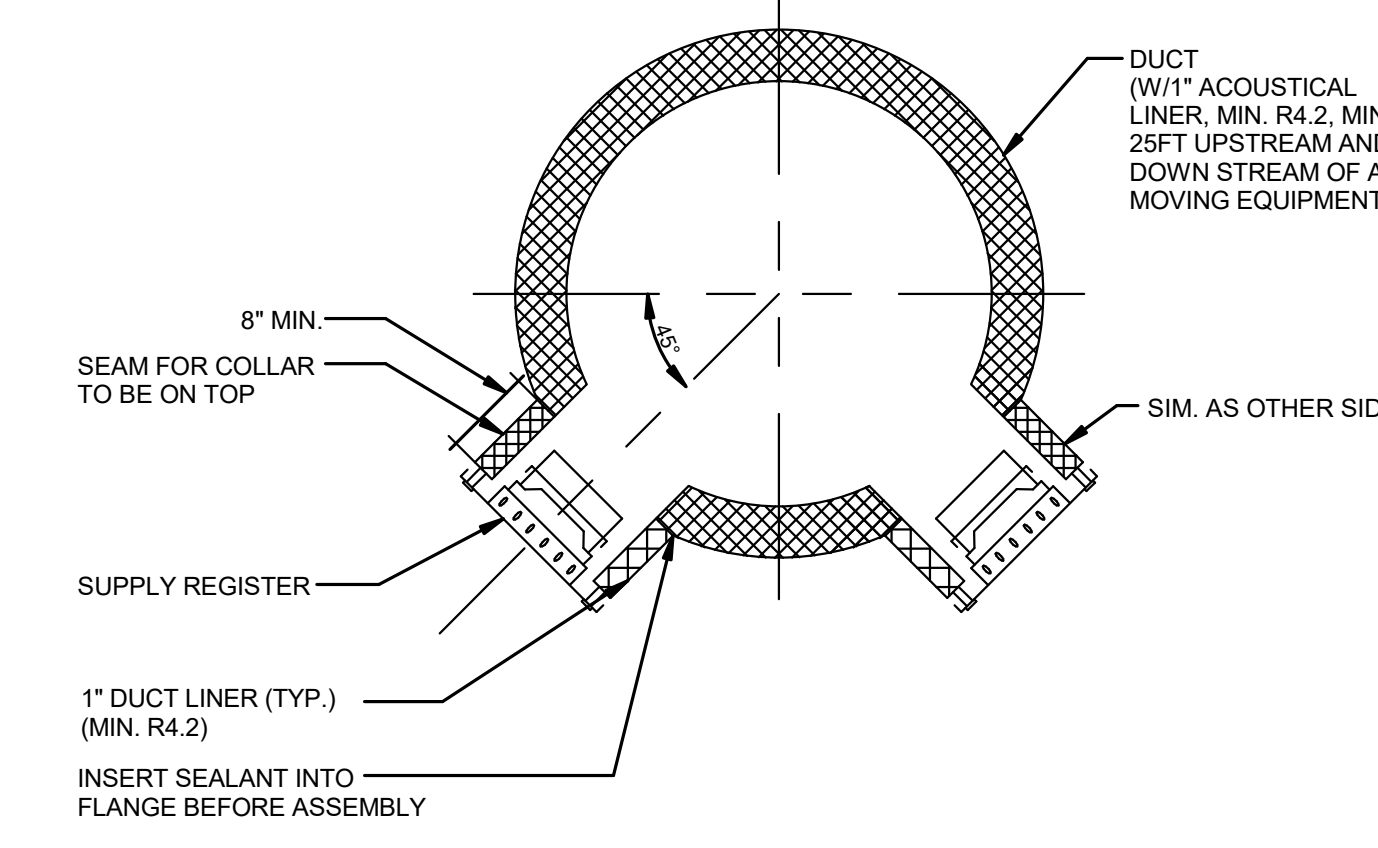
NTS 10



SECTION "A-A"

ACCESS DOOR DETAIL

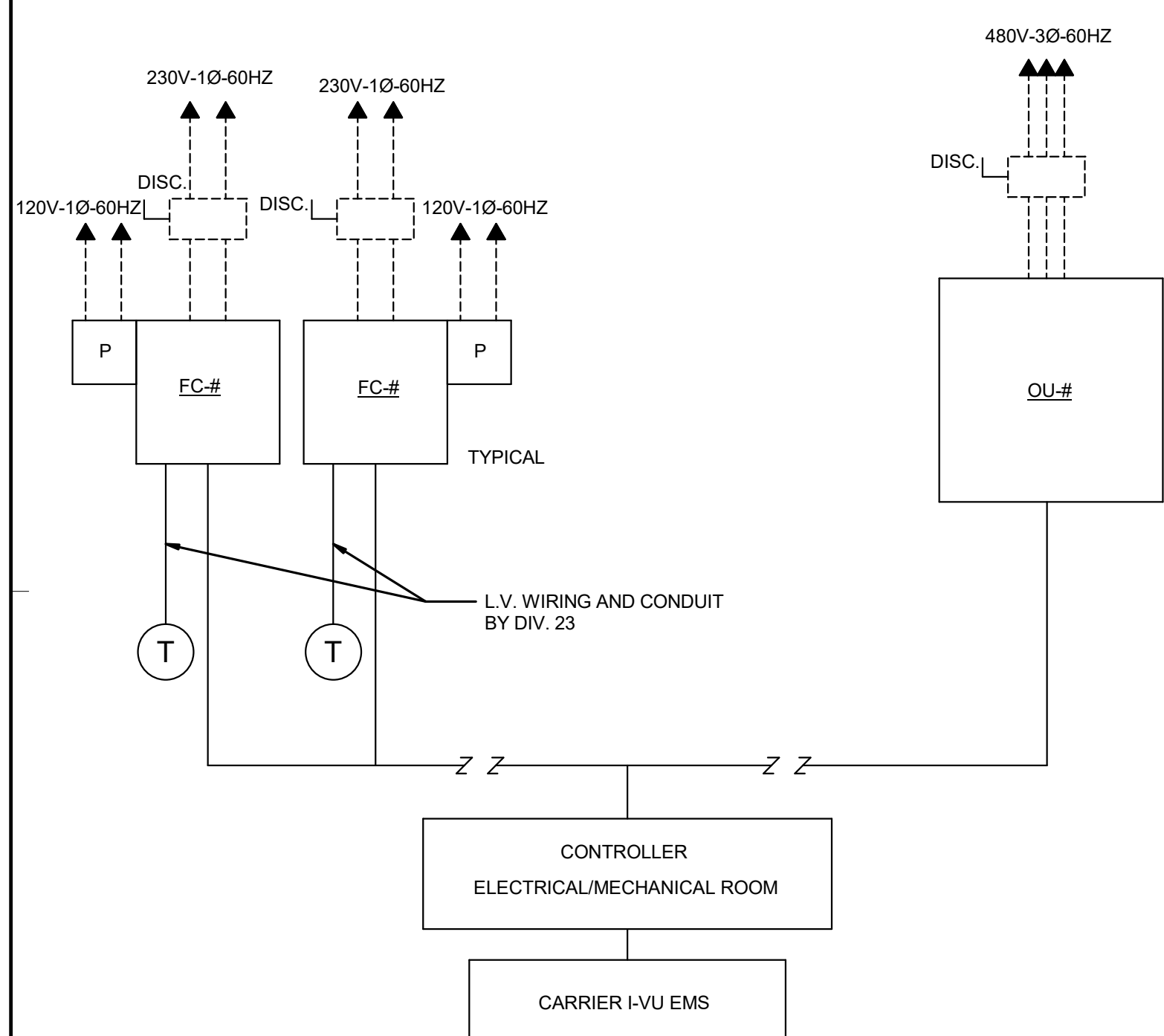
NTS 7



SECTION "A-A"

DUCT MOUNTED REGISTER DETAIL

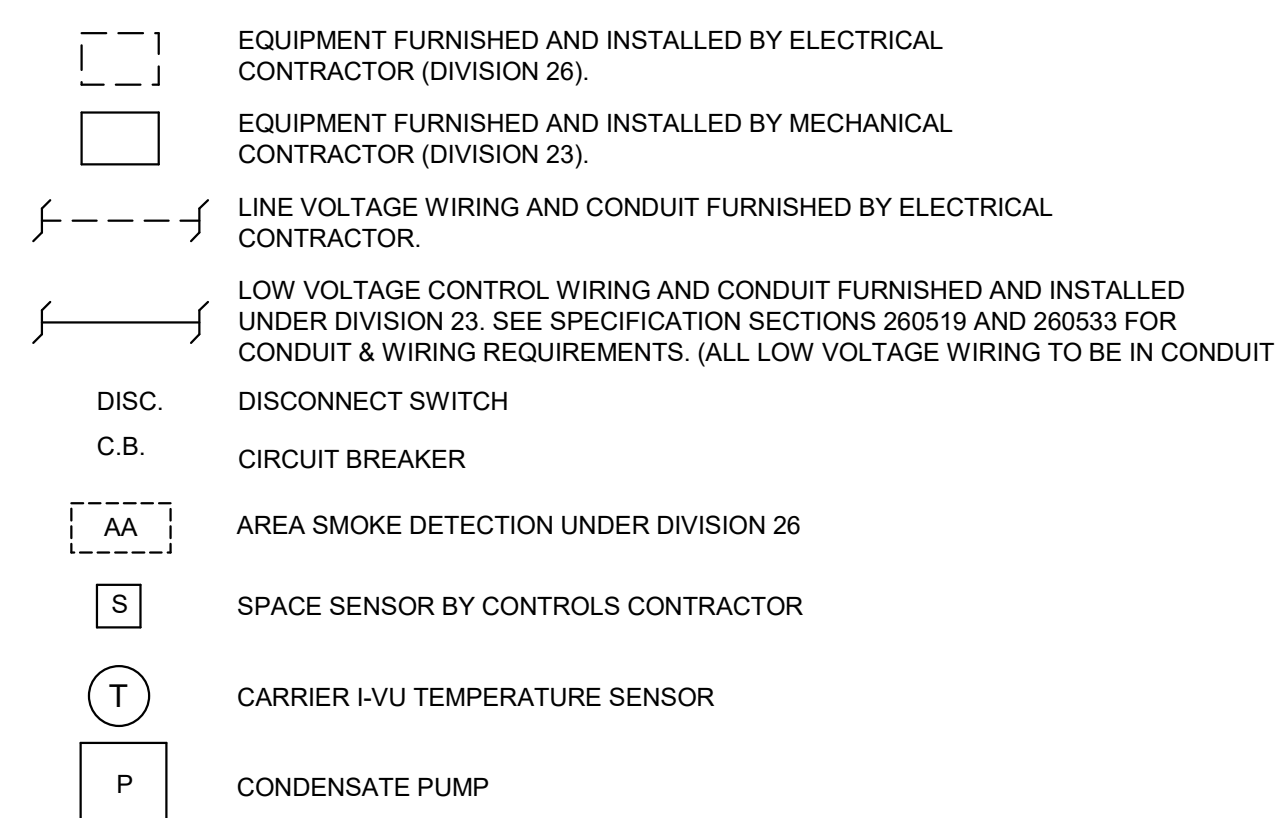
NTS 4



NOTES:
1. FOR WIRING NOTES, SEE LEGEND #1 ON THIS SHEET

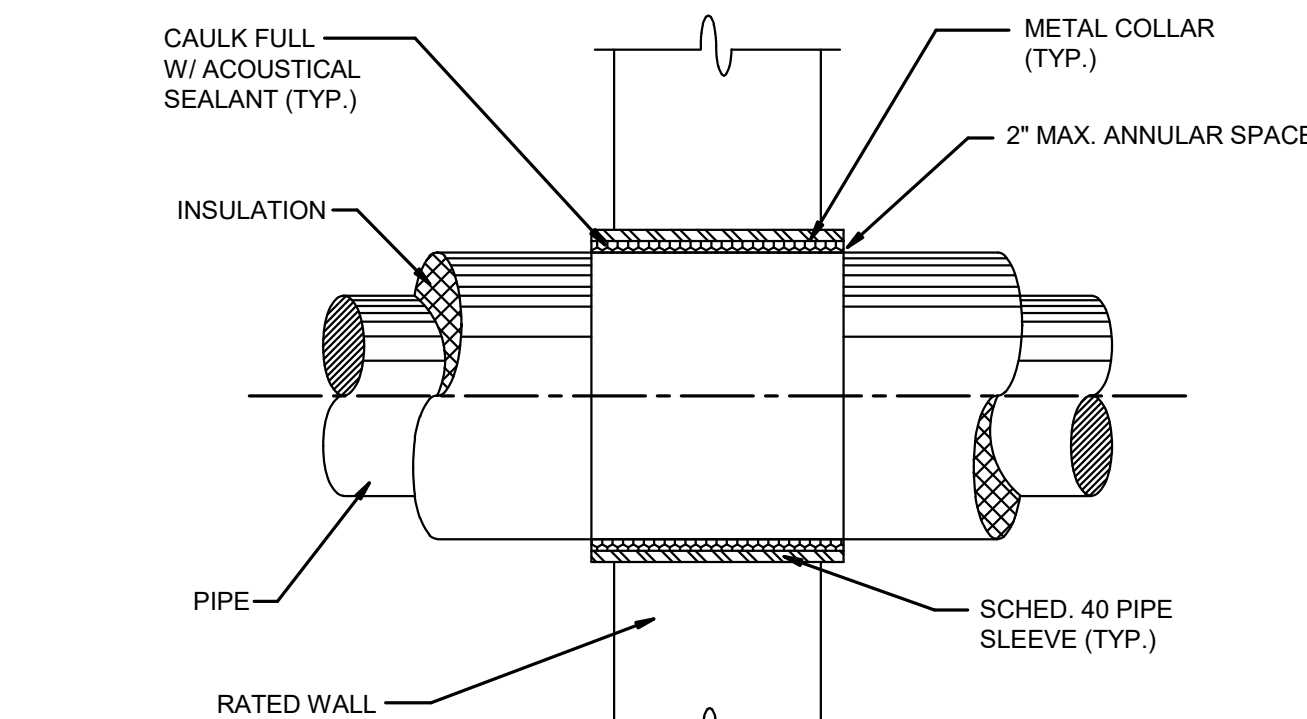
VRF WIRING DIAGRAM

NTS 11



CONTROL WIRING LEGEND

NTS 8

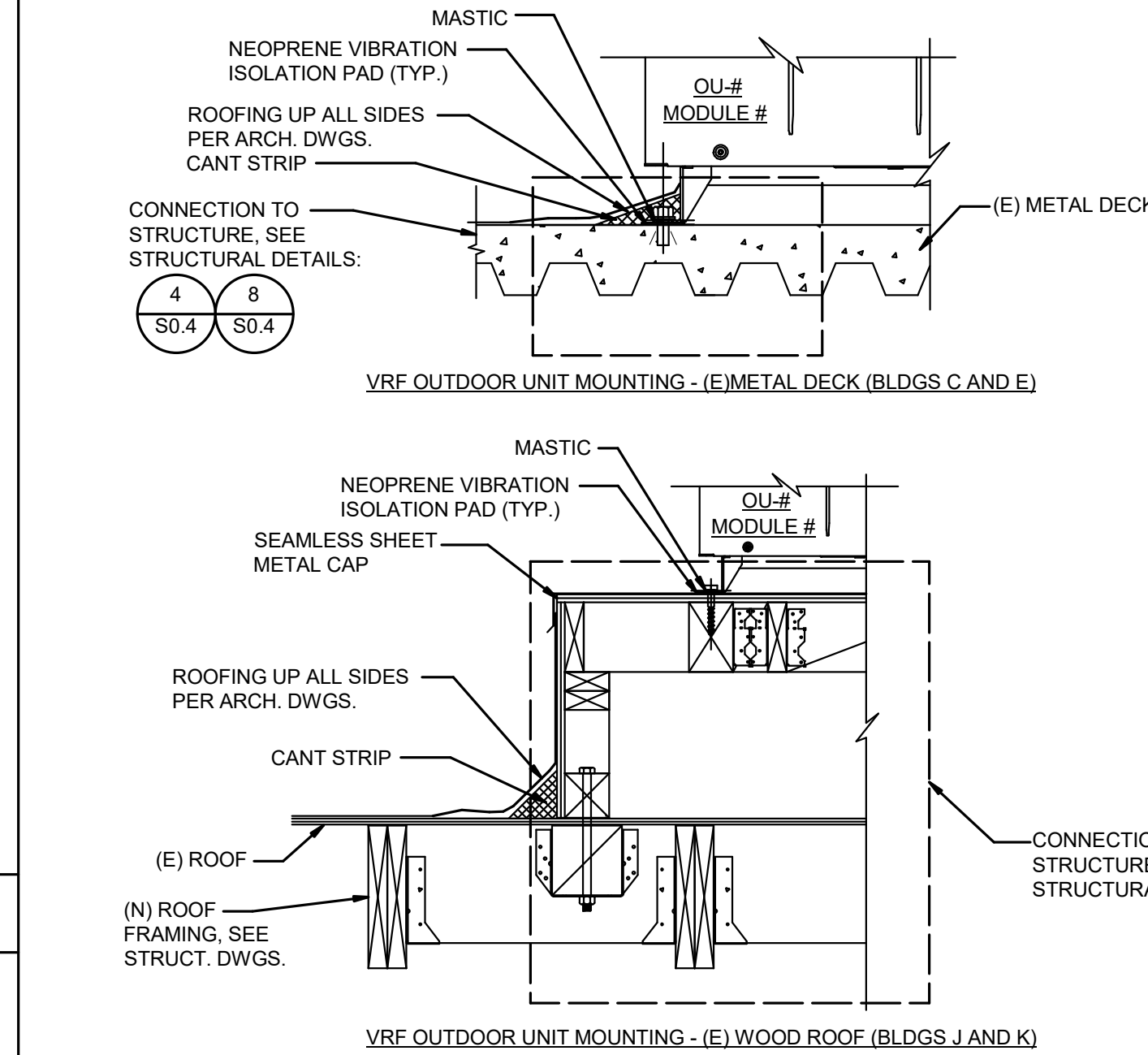
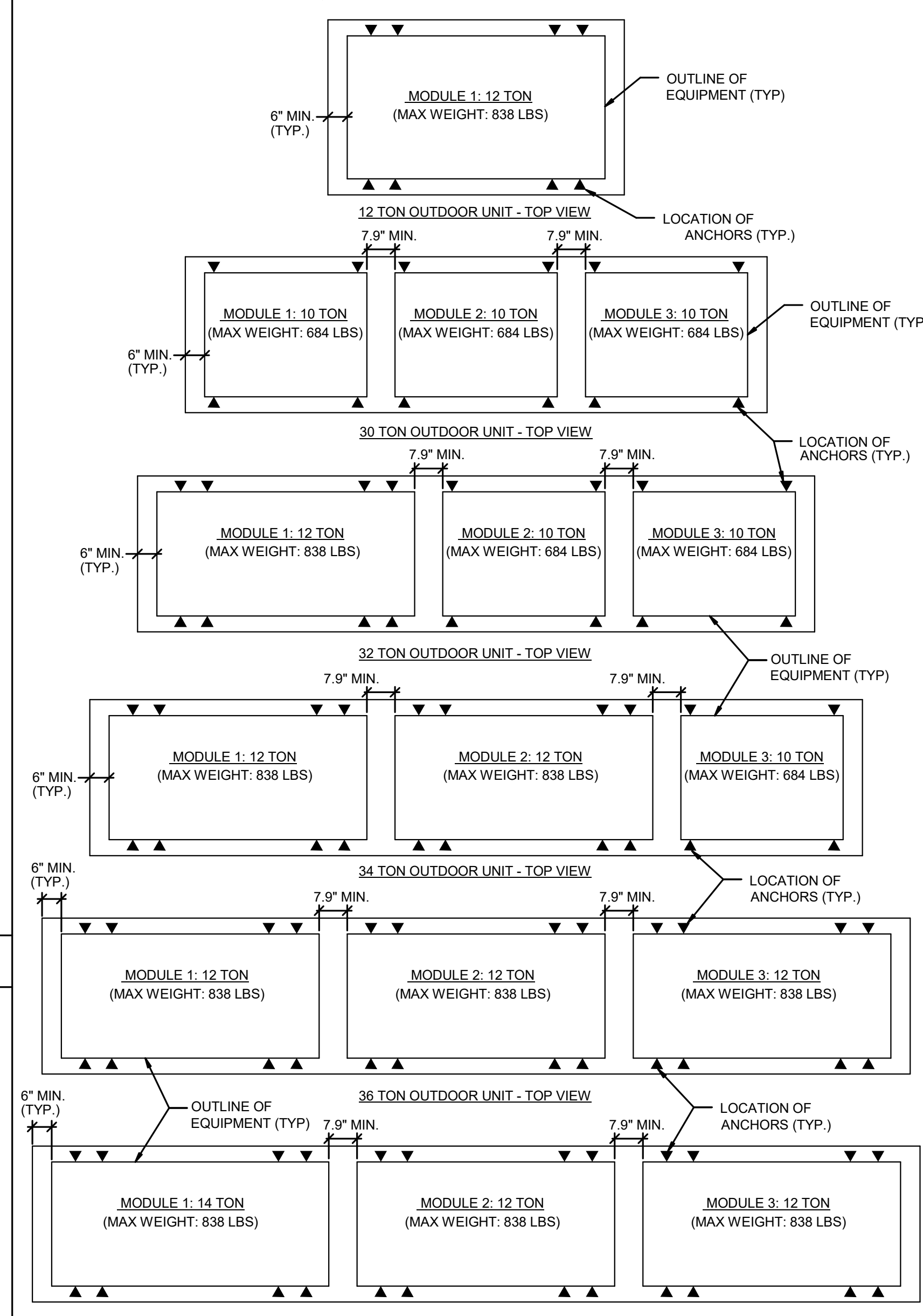


NOTE:
1. ALL PENETRATIONS THROUGH FIRE RATED WALL SHALL BE SLEEVED WITH A NON-COMBUSTIBLE METAL SLEEVE. ALL SUCH PENETRATIONS SHALL BE FIRE STOPPED. 3M FIRE BARRIER (U.L. FILE R-9269-3) CAULK C 25N/S WITH A MINIMUM 1" DEPTH FOR A RATING OF 3 HOURS. THE FIRE STOP MATERIAL SHALL MEET ASTM U.I. & FACTORY MUTUAL SYSTEM APPROVAL, ALONG WITH CALIFORNIA STATE FIRE MARSHAL (APPROVAL #4485941-100), THE CITY OF LOS ANGELES (APPROVAL #PR24463 & I.C.B.O., N.E.R., #243).

2. PENETRATIONS IN SMOKE BARRIERS SHALL BE PROTECTED BY AN APPROVED THROUGH PENETRATION FIRESTOP SYSTEM AND TESTED IN ACCORDANCE WITH SECTION 714.5

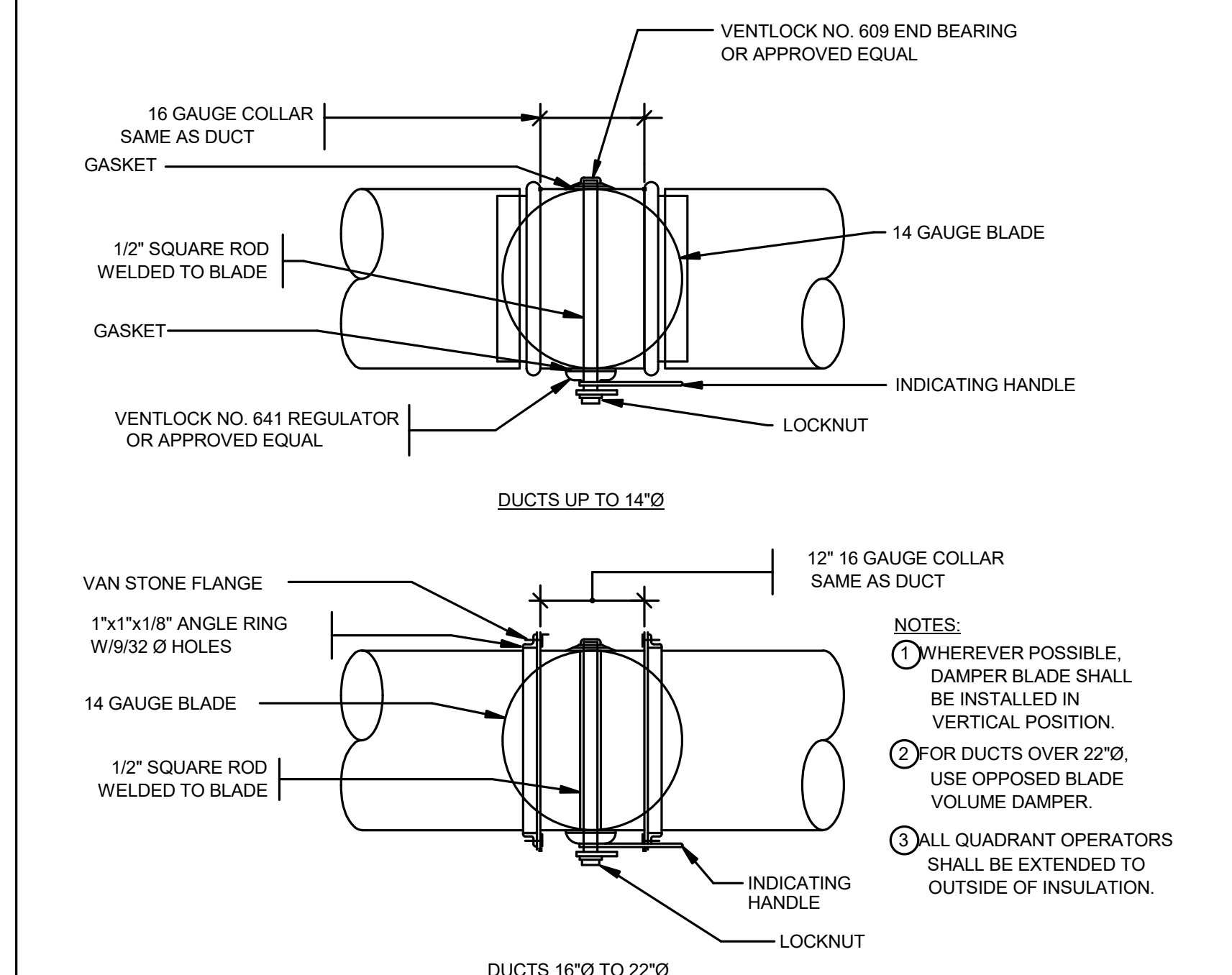
PIPE W/INSULATION THRU RATED WALL DETAIL

NTS 5



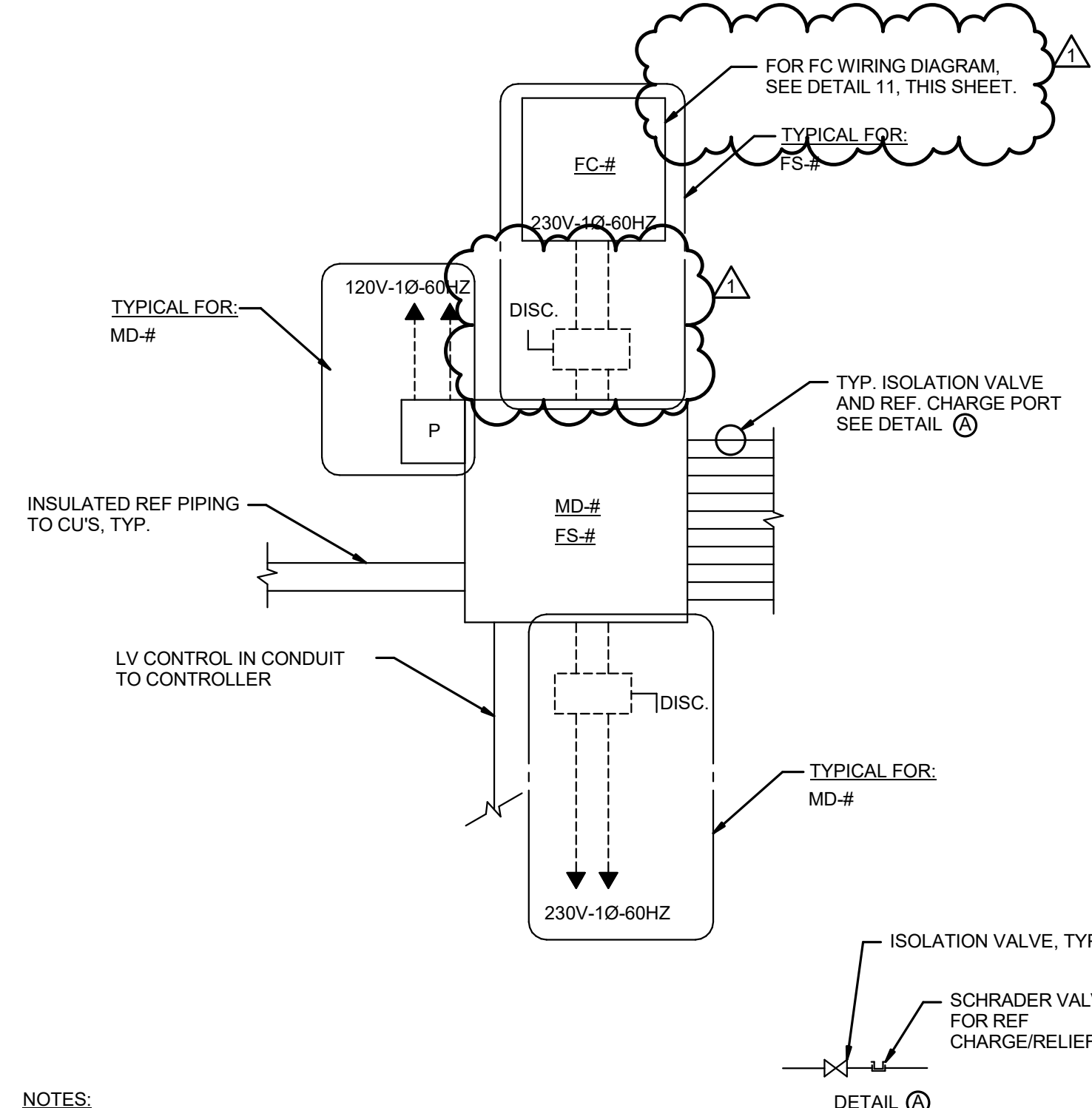
VRF OUTDOOR UNIT MOUNTING

NTS 1



VOLUME DAMPER DETAIL

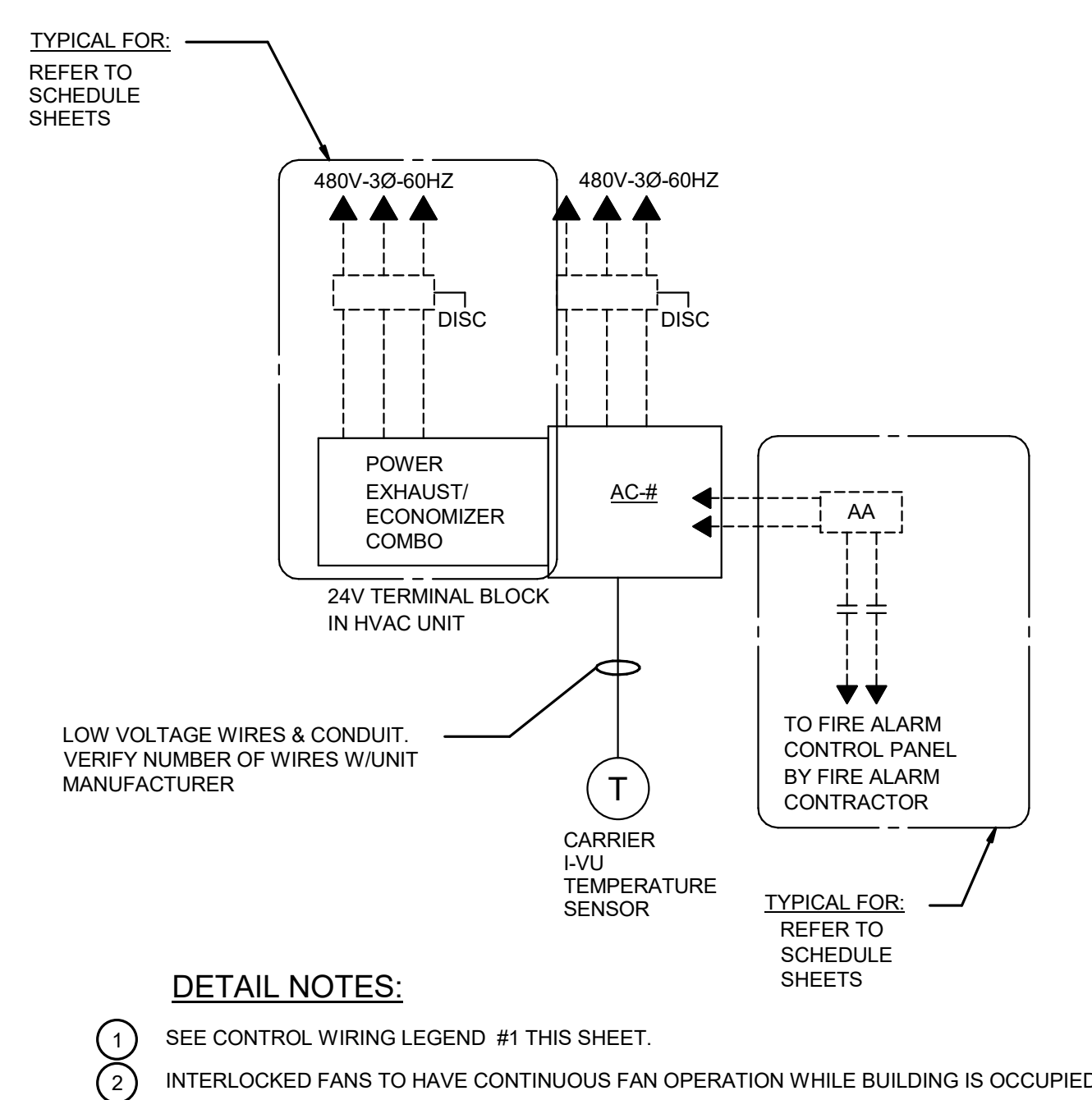
NTS 3



NOTES:
1. FOR WIRING NOTES, SEE LEGEND #1 ON THIS SHEET

MULTIPOINT CONTROLLER REF. PIPING & WIRING DIAGRAM

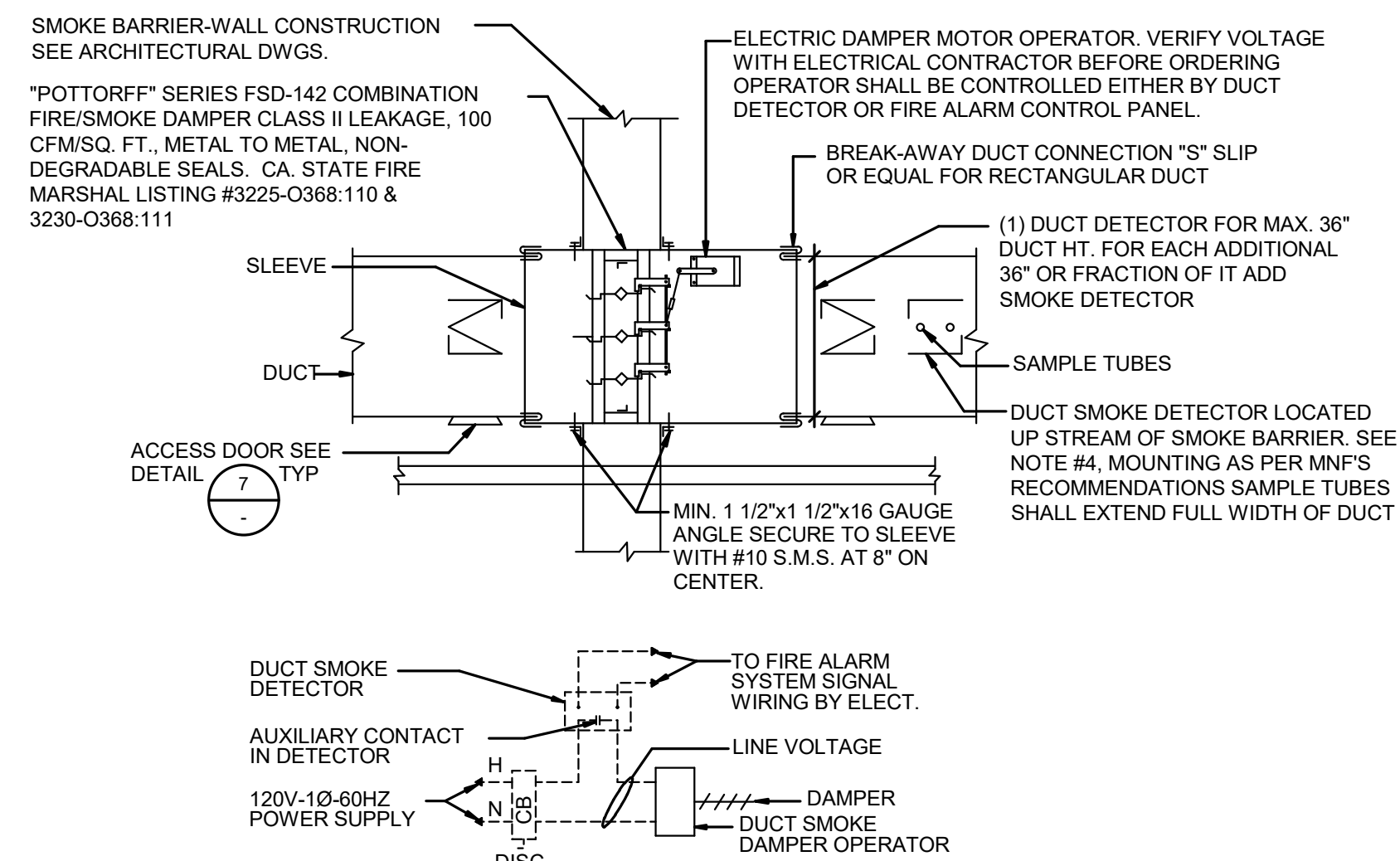
NTS 12



DETAIL NOTES:
1. SEE CONTROL WIRING LEGEND #1 THIS SHEET.
2. INTERLOCKED FANS TO HAVE CONTINUOUS FAN OPERATION WHILE BUILDING IS OCCUPIED.

AC UNIT CONTROL WIRING DIAGRAM

NTS 9



NOTE:
1. FIRE/SMOKE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTION. MANUFACTURER'S INSTALLATION INSTRUCTION SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.

2. DAMPER SHALL BE NORMALLY CLOSED WITHOUT POWER.

3. INTERLOCK SMOKE DAMPER TO RELATED AIR HANDLING UNIT AND SHUT DOWN UNIT UPON SMOKE DETECTION

4. DUCT SMOKE DETECTORS SUPPLIED BY FIRE ALARM CONTRACTOR, SEE FIRE ALARM DWGS. FOR ADDITIONAL INFORMATION

5. PROVIDE SQUARE DAMPERS WITH ROUND COLLAR FOR ALL ROUND DUCTS. SIZE OF DUCT AS INDICATED ON DRAWING.

FIRE/SMOKE DAMPER DETAIL

NTS 6

1	08/25/20	CG	ADDENDUM 1

NO	DATE	BY	DESCRIPTION

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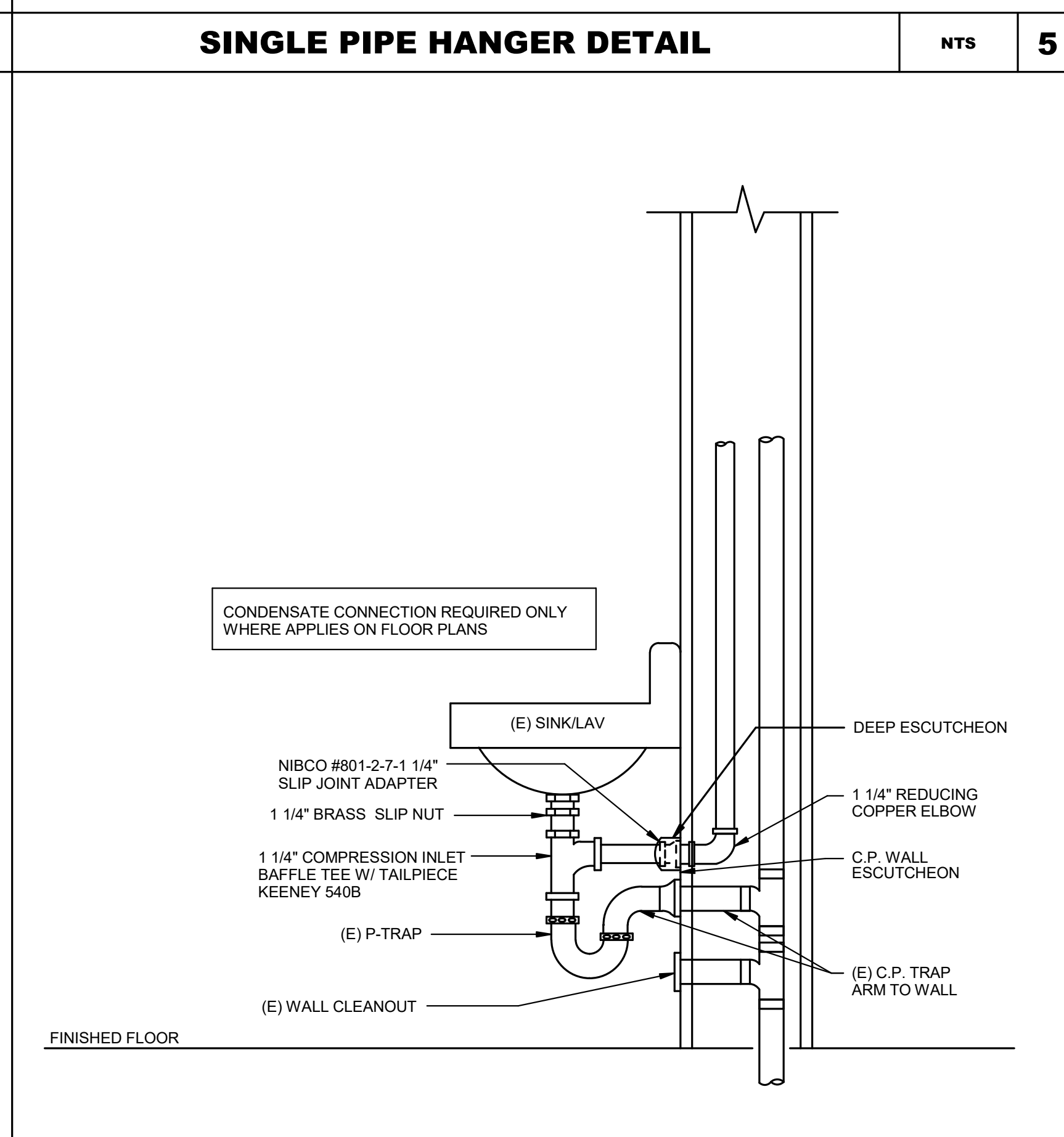
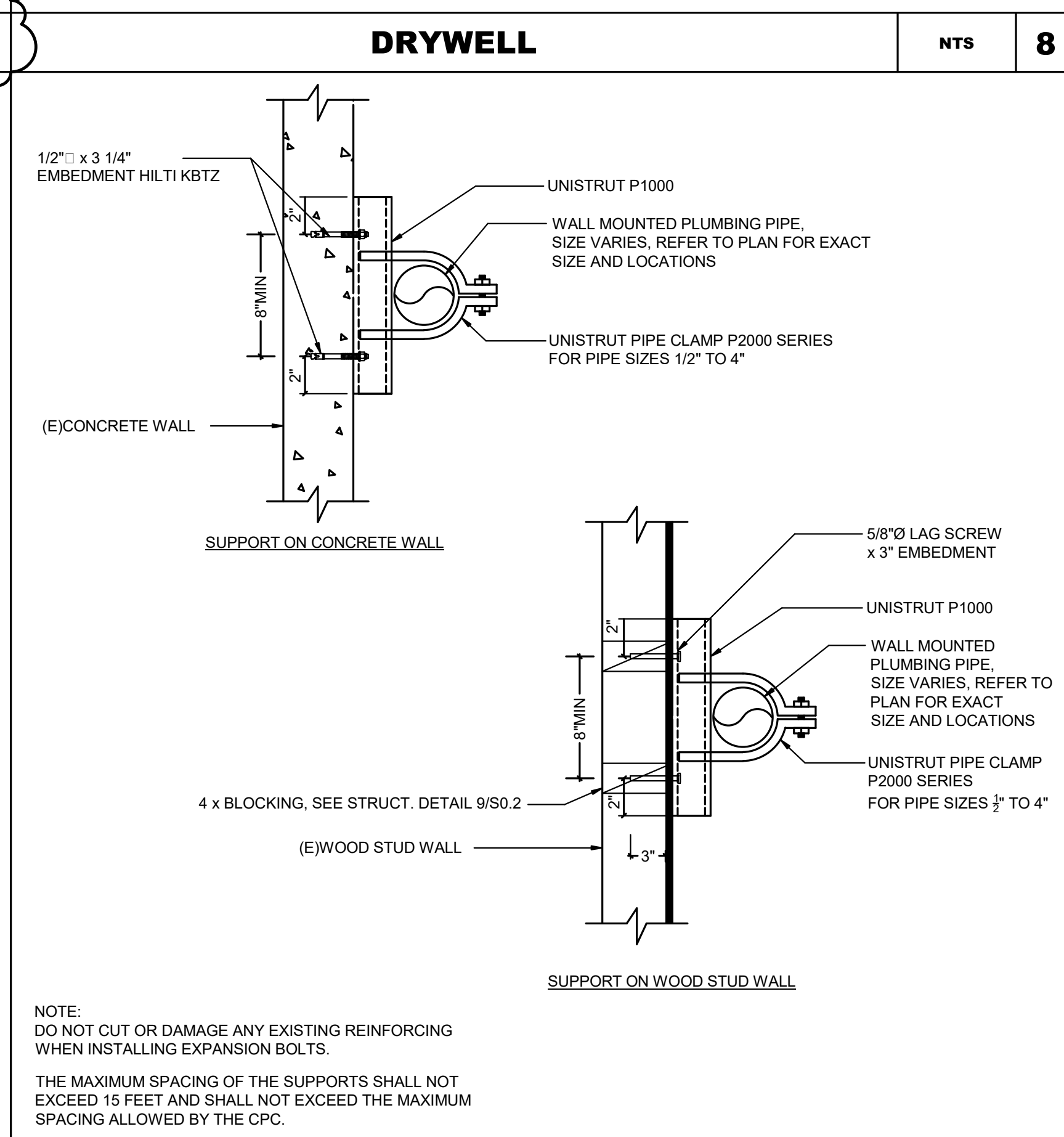
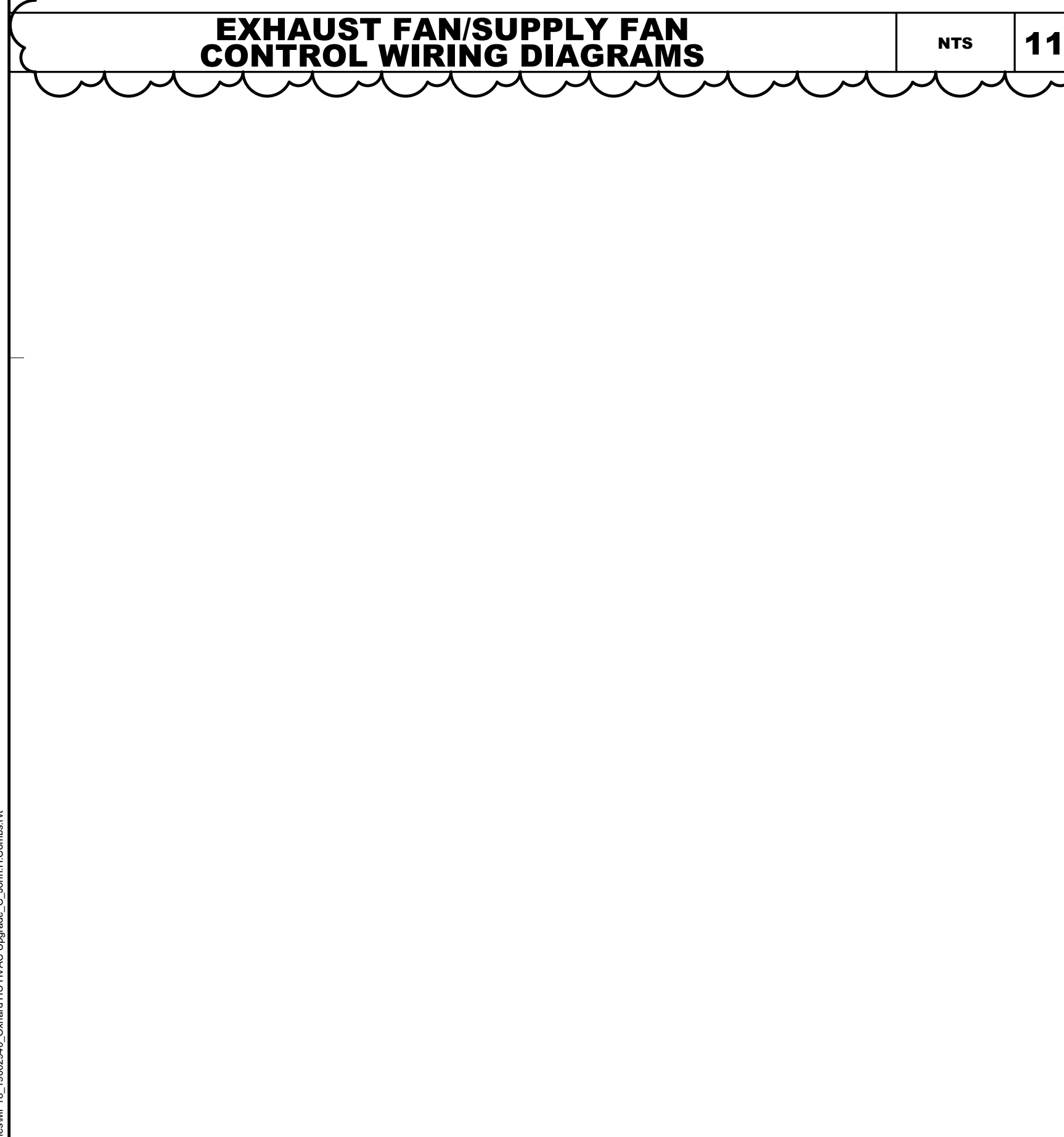
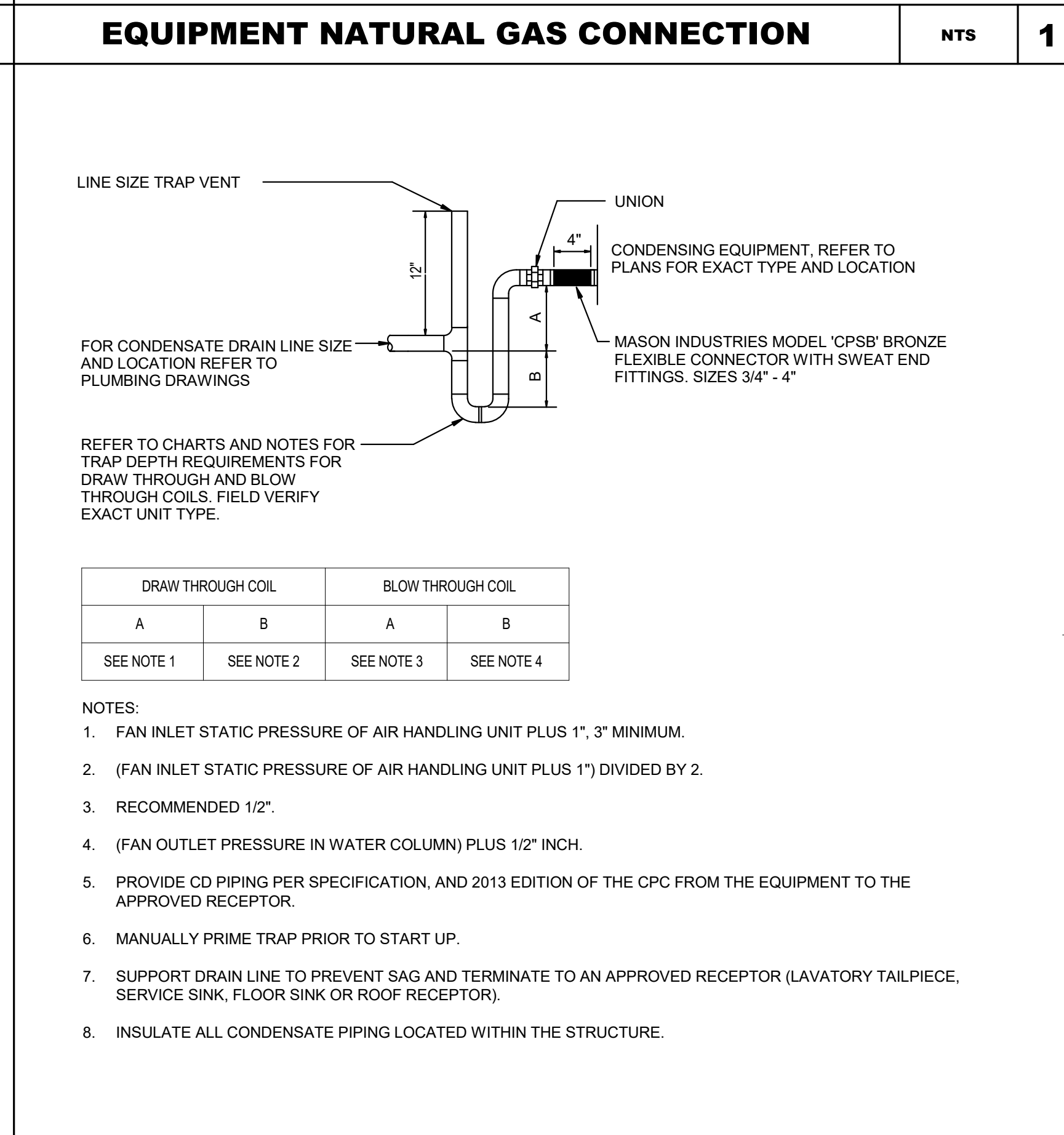
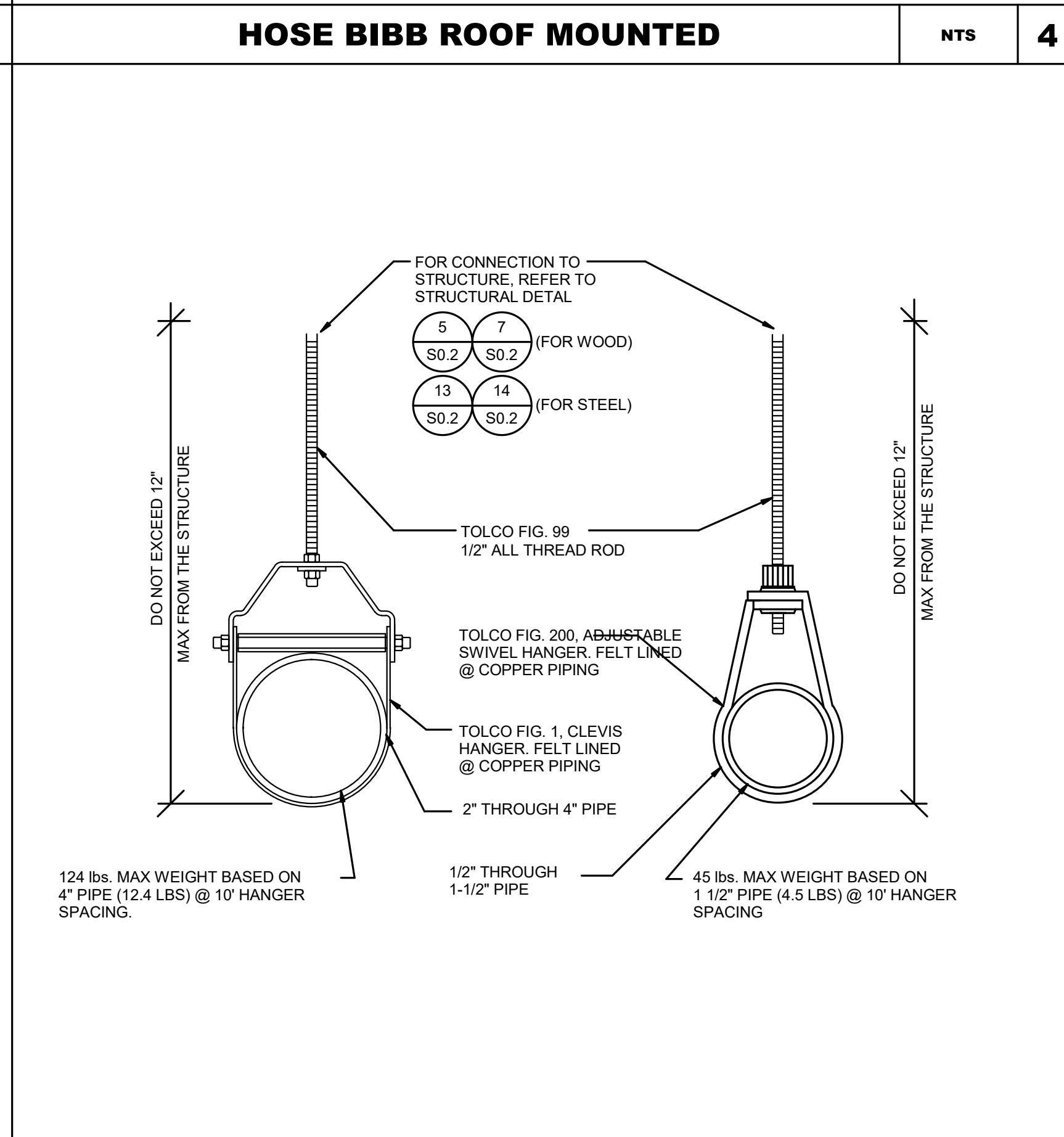
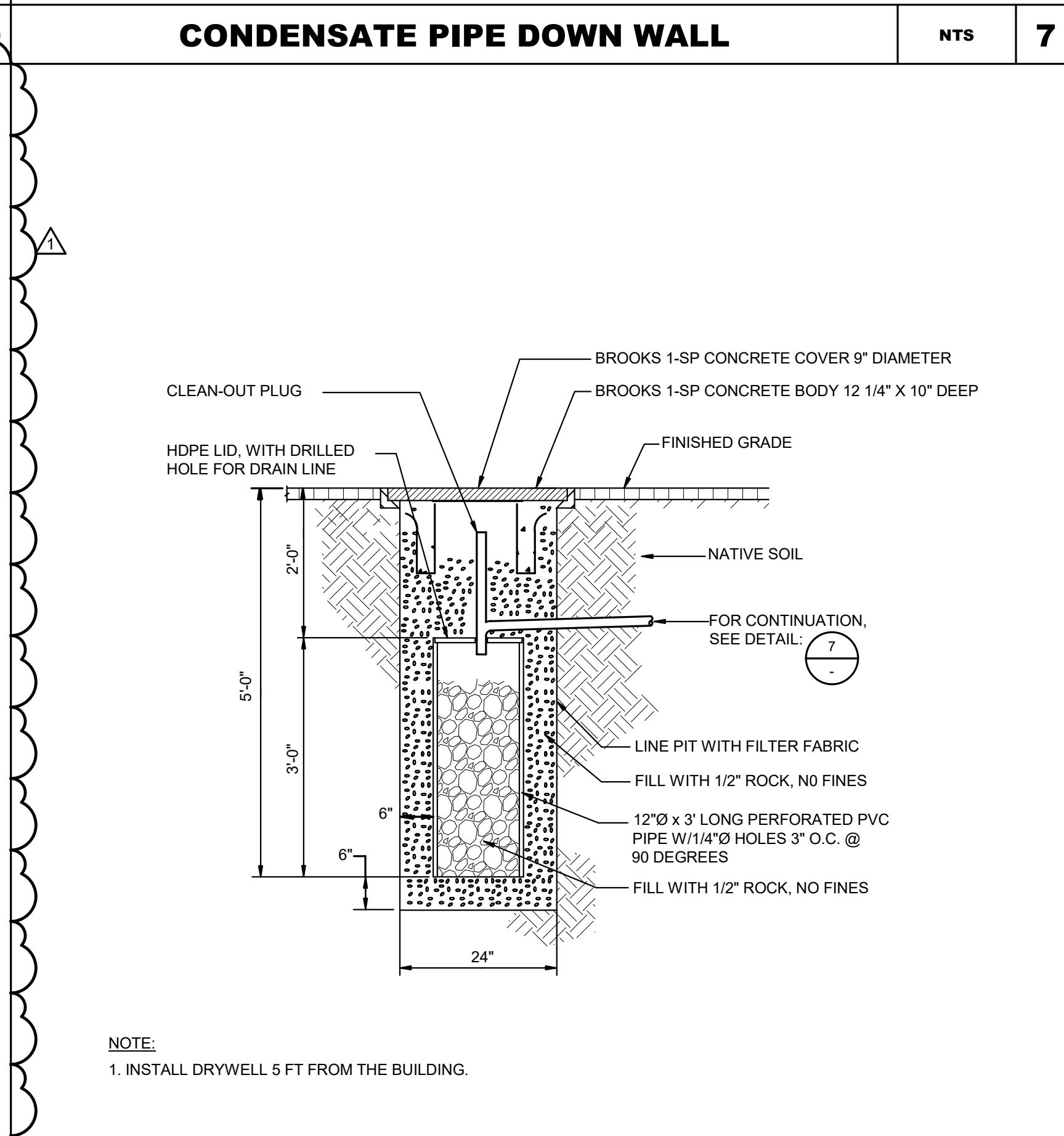
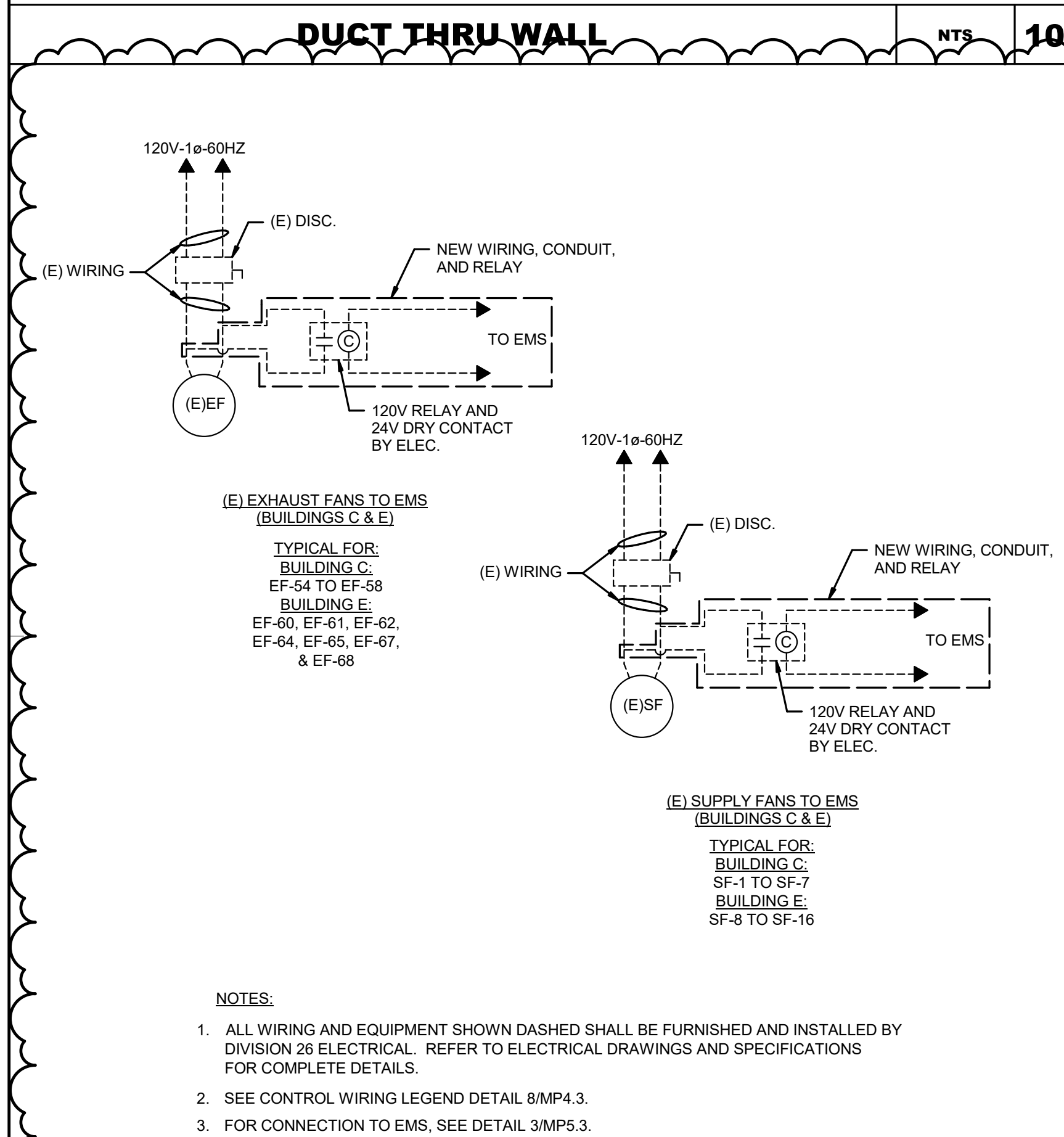
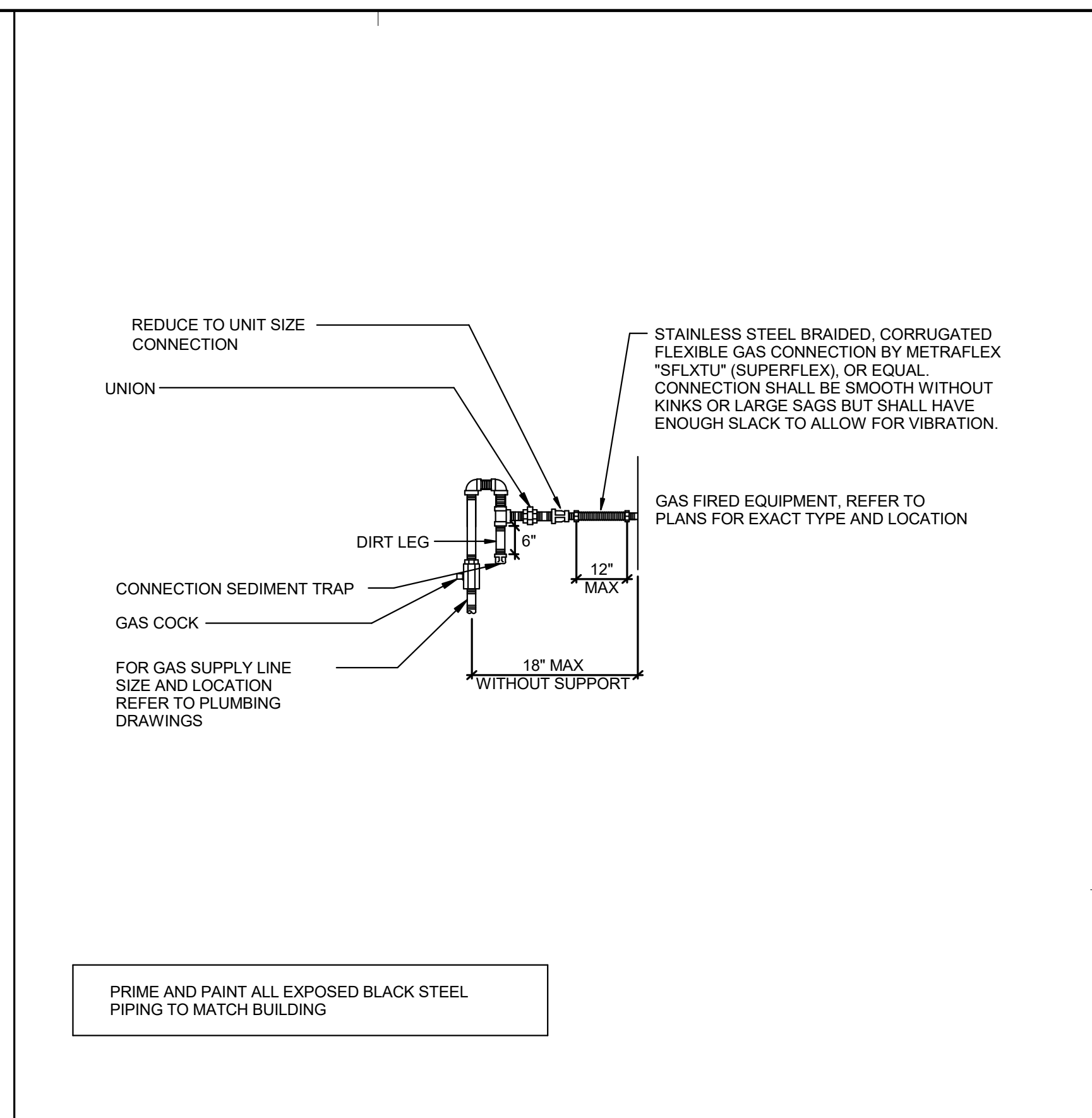
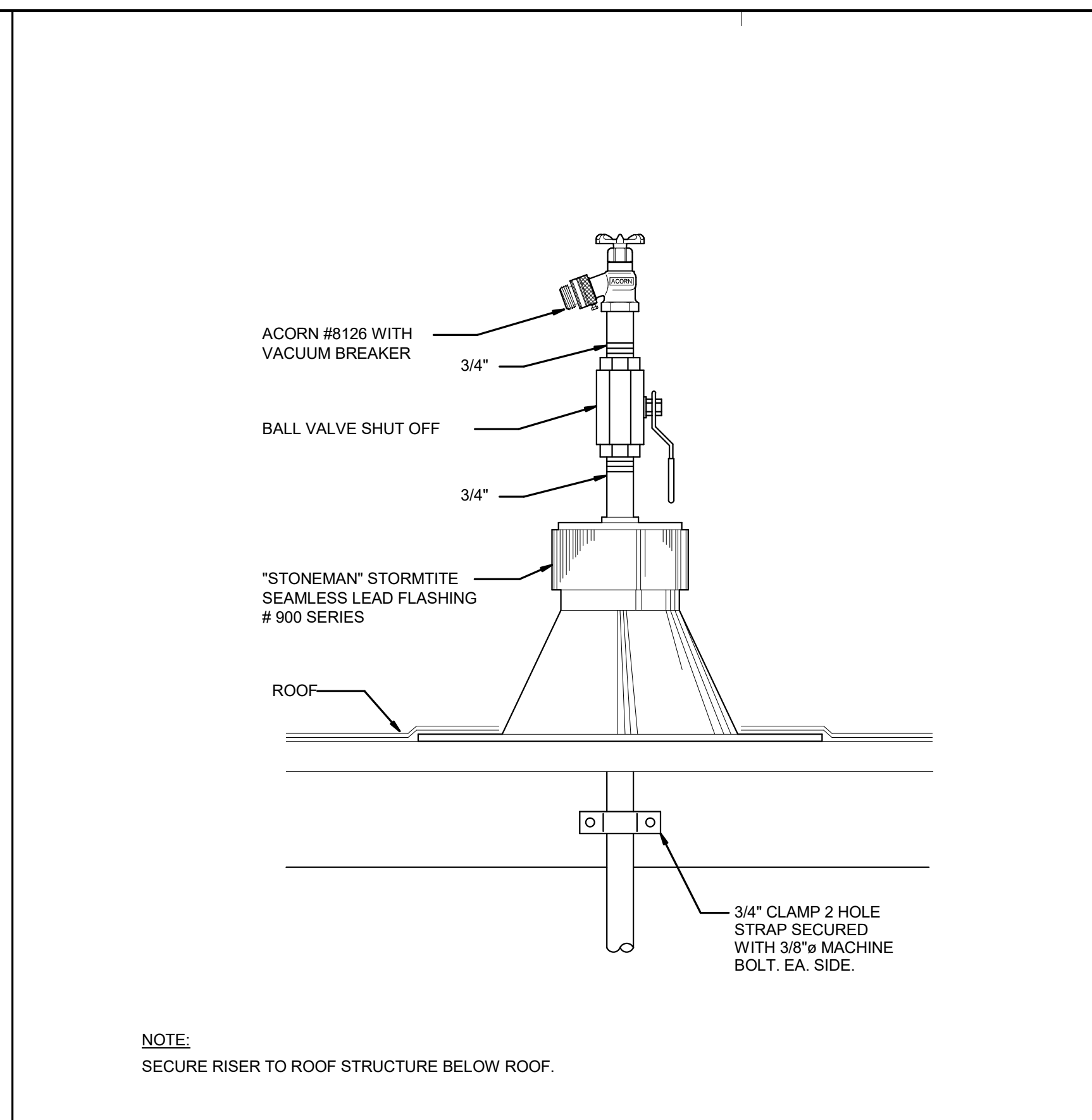
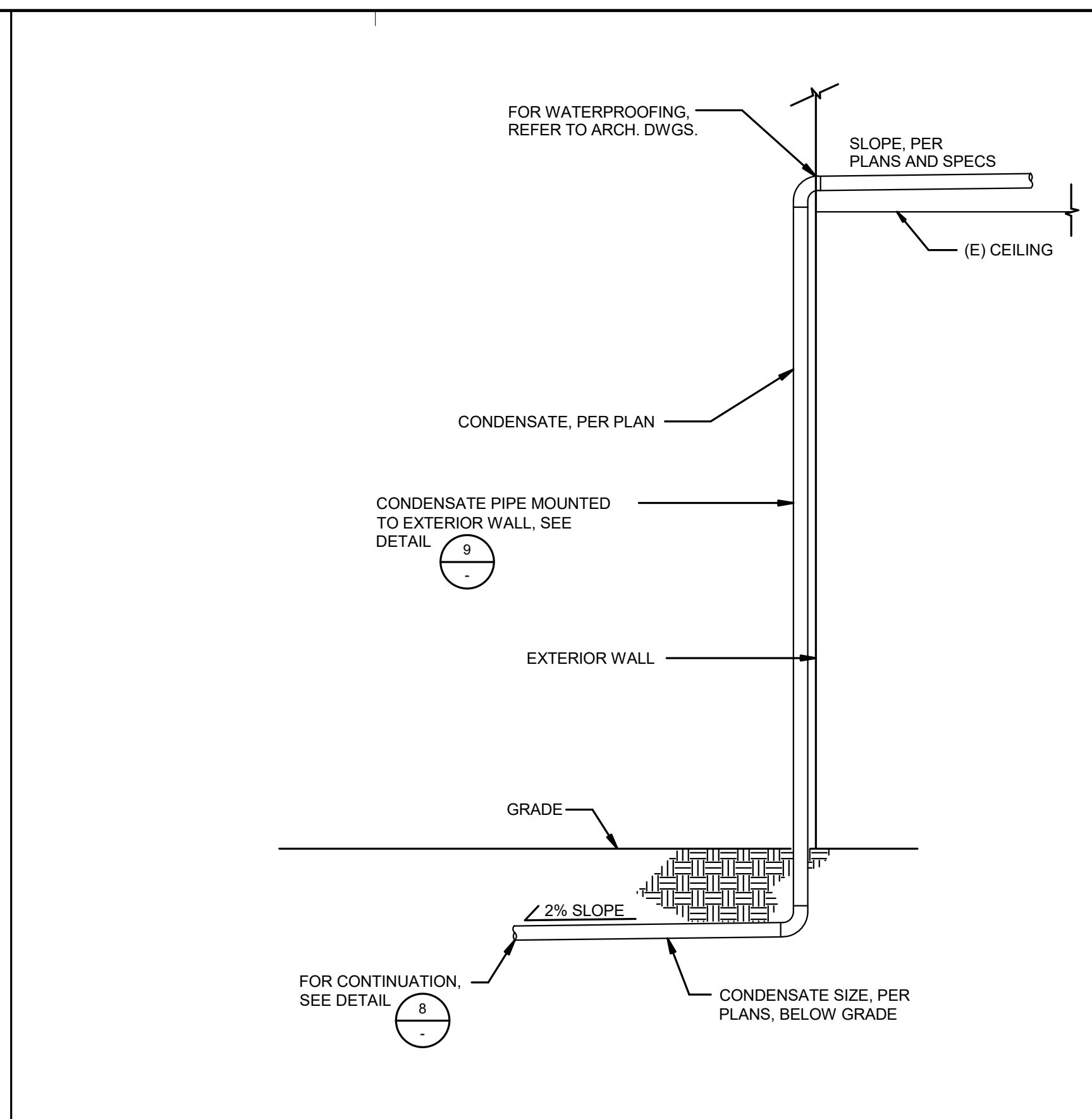
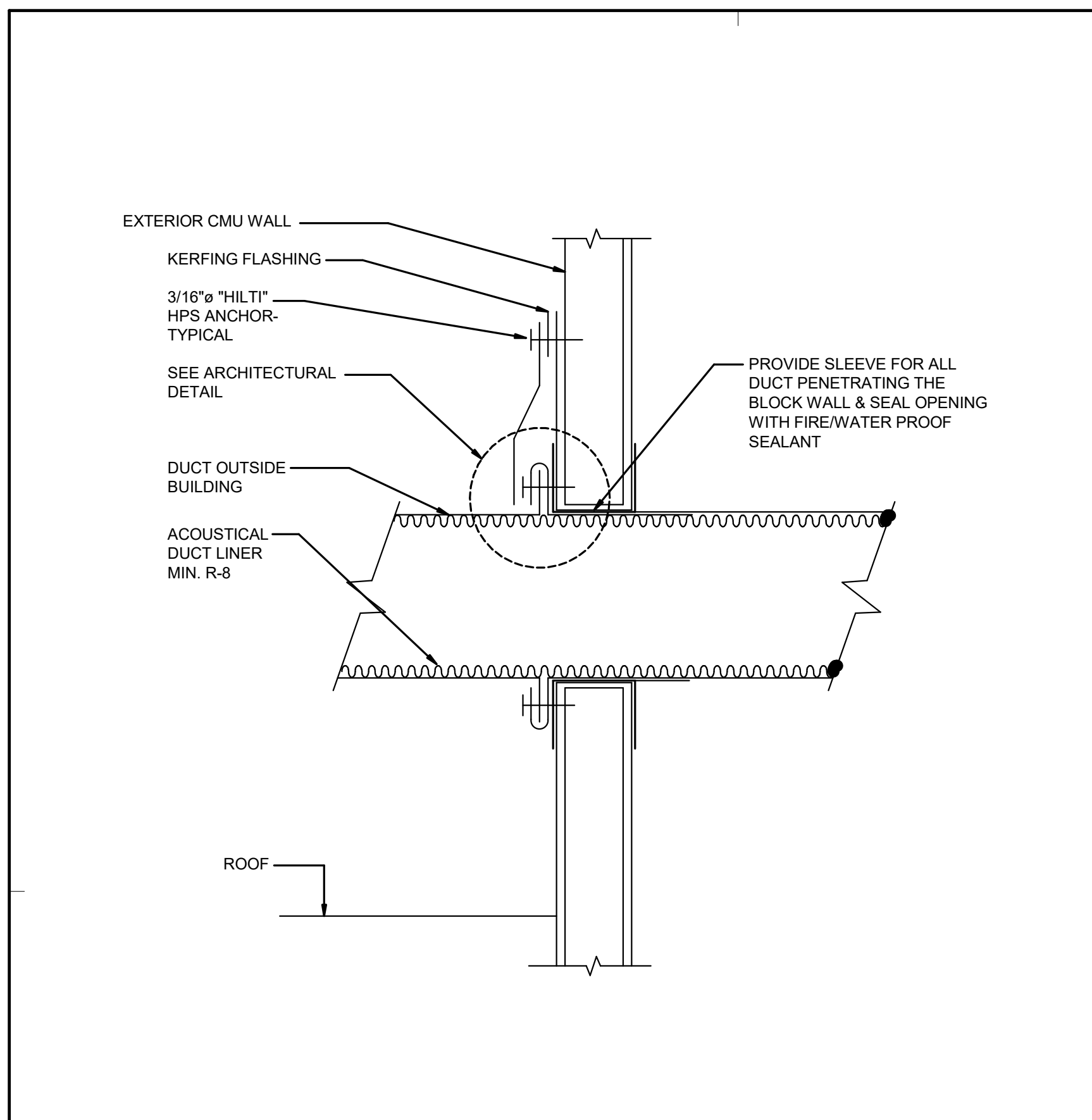
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1	08/25/20	CG	ADDENDUM 1
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DETAILS

DRAWING NUMBER: **MP4.4**



NOT USED NTS 12

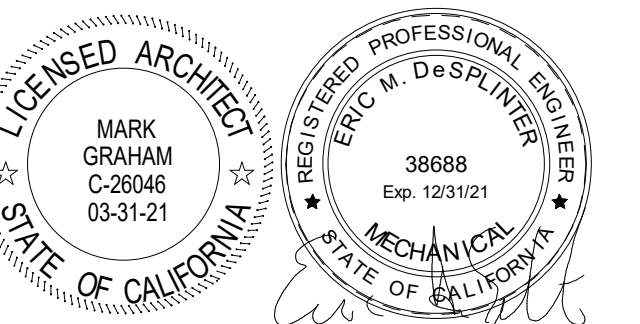
PIPE WALL SUPPORT NTS 9

CONDENSATE CONNECTION TO LAVATORY NTS 6

TYPICAL PIPE THROUGH ROOF NTS 3

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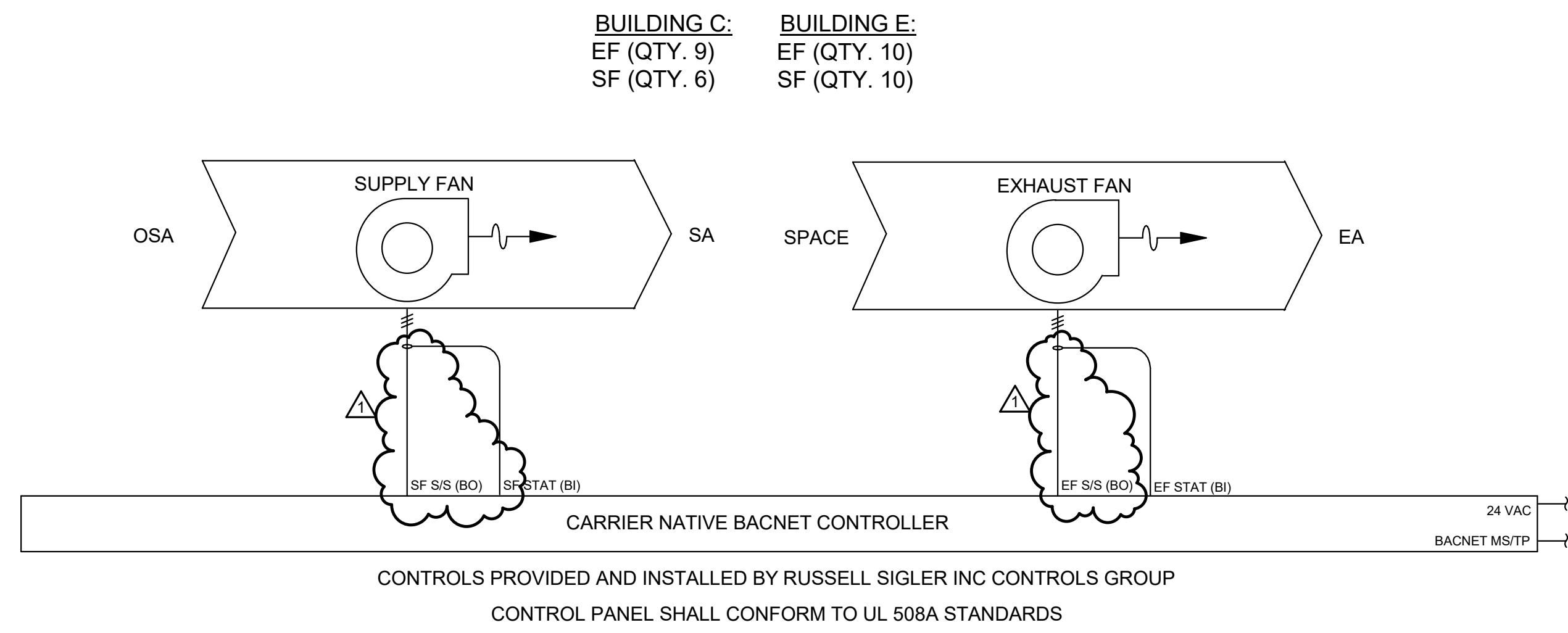


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1	08/25/20	CG	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: CDG	CHECKED: JMM
DATE: Issue Date	SCALE:
PROJECT NUMBER: Project	Number

CONTROLS
DRAWING NUMBER: **MP5.3**



SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE ERV CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00. THE TCC SHALL PROVIDE ALL ADDITIONAL CONTROL COMPONENTS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION LISTED BELOW.

WHEN SUPPLY FAN/EXHAUST FAN IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
SUPPLY FAN AND EXHAUST FAN SHALL BE ENABLED TO RUN.

BUILDING OCCUPANCY SCHEDULING:
FMCS SHALL BE PROGRAMMED WITH THE FOLLOWING TENTATIVE OCCUPANCY SCHEDULE. COORDINATE SPECIFIC SCHEDULE WITH OWNER.

OCCUPIED MODE:	MONDAY THROUGH FRIDAY
7:00AM-5:00PM (ADJ)	
UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY
5:00PM-6:00AM (ADJ)	SATURDAY THROUGH SUNDAY ALL DAY

ALARMS, INTERLOCKS, AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED BY THE TCC IN THE FIELD:
FIRE ALARM RELAY
SUPPLY FAN FAULT
RELIEF FAN FAULT
IF THE FIRE ALARM SYSTEM IS ACTIVATED

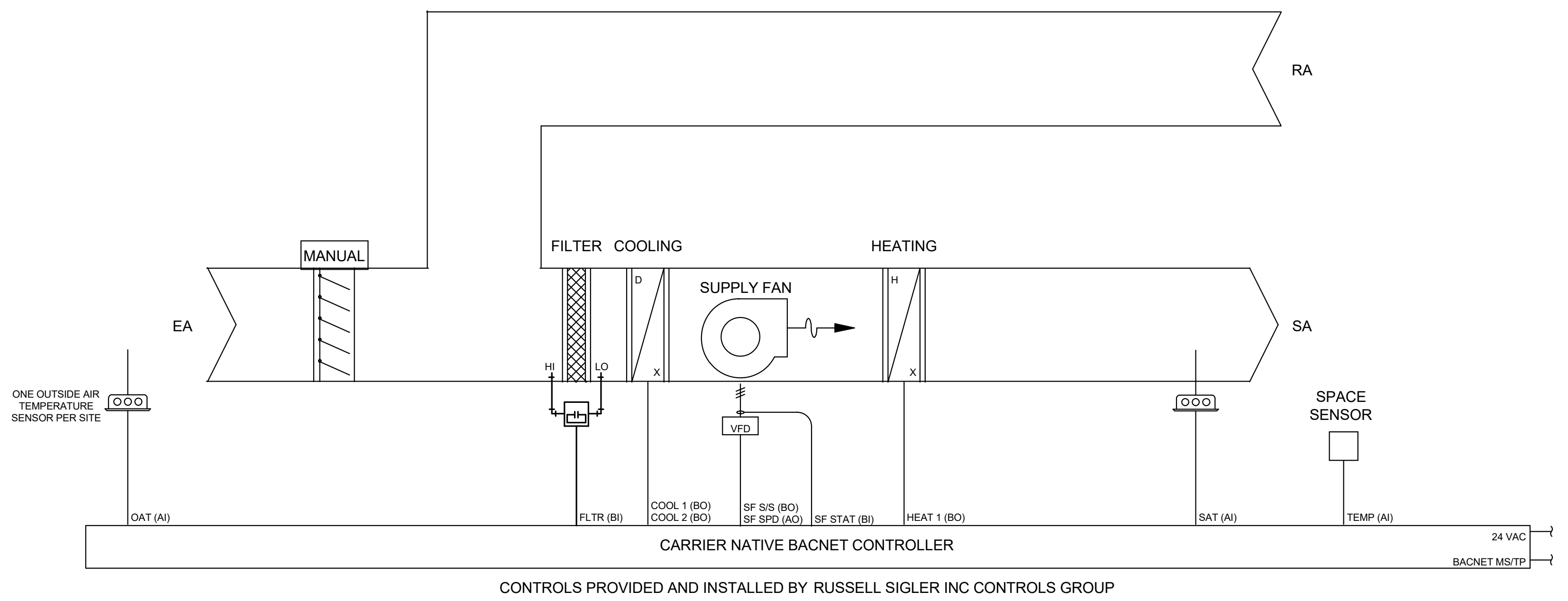
GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OA TEMPERATURE AND HUMIDITY ON GRAPHIC PAGE. DISPLAY GRAPHICS OF EACH RTU USING INFORMATION RECEIVED FROM BACNET INTERFACE AND PROVIDED SENSORS. INFORMATION SHALL INCLUDE FAN STATUS, SUPPLY AIR TEMPERATURE, FAULT CODE, OCCUPANCY, SPACE PRESSURE, AND GENERAL ALARM.

TYPICAL EXHAUST FAN CONTROL PANEL DETAIL

NTS 3

STAGED AIR VOLUME RTU NO POWER EXHAUST OR ECONOMIZER DETAIL (B-1 THRU B-16, F-1 THRU F-15)

NTS 1



SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU UNITARY CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00. THE TCC SHALL PROVIDE ALL ADDITIONAL CONTROL COMPONENTS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION LISTED BELOW.

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
SUPPLY FAN SHALL BE ENABLED TO RUN. WHEN THE SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

BUILDING OCCUPANCY SCHEDULING:
FMCS SHALL BE PROGRAMMED WITH THE FOLLOWING TENTATIVE OCCUPANCY SCHEDULE. COORDINATE SPECIFIC SCHEDULE WITH OWNER.

MORNING START-UP MODE:	MONDAY THROUGH FRIDAY	6:00AM-7:00AM (ADJ)
OCCUPIED MODE:	MONDAY THROUGH FRIDAY	7:00AM-5:00PM (ADJ)
UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY	5:00PM-6:00AM (ADJ)
	SATURDAY THROUGH SUNDAY	ALL DAY

SUPPLY FAN CONTROL:
DURING OCCUPIED MODE THE SUPPLY FAN SHALL MODULATE WITH THE HEATING AND COOLING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AND ENSURE PROPER AIRFLOW ACROSS COIL. DURING UNOCCUPIED MODE THE SUPPLY FAN SHALL BE OFF.

VENTILATION AIR CONTROL:
DURING OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE OPEN TO MAINTAIN THE MINIMUM SCHEDULED OUTSIDE AIR.

COOLING MODE:
THE COOLING SETPOINT SHALL BE 74°F (ADJ). IF SPACE TEMPERATURE RISES ABOVE SETPOINT ENABLE STAGES OF COOLING TO SATISFY SETPOINT.

HEATING MODE:
THE HEATING SETPOINT SHALL BE 70°F (ADJ). IF SPACE TEMPERATURE FALLS BELOW SETPOINT ENABLE STAGES OF HEATING TO SATISFY SETPOINT.

MORNING START-UP OPERATION:
THE FMCS SHALL MEASURE THE SPACE TEMPERATURE AND OUTSIDE AIR TEMPERATURE TO DETERMINE THE MINIMUM RUNTIME TO WARM/COOL THE SPACES TO THEIR SETPOINT. WHEN THE COMPUTED START TIME IS REACHED THE FMCS SHALL ENABLE THE RTU.

ALARMS, INTERLOCKS, AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED BY THE TCC IN THE FIELD:
FIRE ALARM RELAY
SUPPLY FAN FAULT
DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ)
IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ) ABOVE OR BELOW SETPOINT IF THE FIRE ALARM SYSTEM IS ACTIVATED

ANY ASSOCIATED INTERLOCKED EXHAUST FANS SHALL OPERATE WHEN THE RTU IS OCCUPIED PER THE ABOVE BUILDING SCHEDULE.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OA TEMPERATURE AND HUMIDITY ON GRAPHIC PAGE. DISPLAY GRAPHICS OF EACH RTU USING INFORMATION RECEIVED FROM BACNET INTERFACE AND PROVIDED SENSORS. INFORMATION SHALL INCLUDE COOLING STATUS, HEATING STATUS, FAN STATUS, UNIT STATUS, SPACE TEMPERATURE, SUPPLY AIR TEMPERATURE, FAULT CODE, FILTER STATUS, OCCUPANCY, SPACE PRESSURE, AND GENERAL ALARM.

DESCRIPTION	INPUTS		OUTPUTS	
	ANALOG	BINARY	ANALOG	BINARY
SUPPLY AIR TEMPERATURE	X			
SPACE TEMPERATURE	X			
OUTDOOR AIR TEMPERATURE	X			
OUTDOOR AIR HUMIDITY	X			
BUILDING PRESSURE	X			
CARBON DIOXIDE LEVEL	X			
COOLING				X
SUPPLY FAN START/STOP				X
SUPPLY FAN STATUS		X		
HEATING				X
FILTER STATUS		X		
OUTSIDE AIR DAMPER			X	

SEQUENCE OF OPERATION:
THE TEMPERATURE CONTROLS CONTRACTOR (TCC) SHALL EXTEND THE FMCS NETWORK TO THE RTU UNITARY CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00. THE TCC SHALL PROVIDE ALL ADDITIONAL CONTROL COMPONENTS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION LISTED BELOW.

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
SUPPLY FAN SHALL BE ENABLED TO RUN. WHEN THE SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START.

BUILDING OCCUPANCY SCHEDULING:
FMCS SHALL BE PROGRAMMED WITH THE FOLLOWING TENTATIVE OCCUPANCY SCHEDULE. COORDINATE SPECIFIC SCHEDULE WITH OWNER.

MORNING START-UP MODE:	MONDAY THROUGH FRIDAY	6:00AM-7:00AM (ADJ)
OCCUPIED MODE:	MONDAY THROUGH FRIDAY	7:00AM-5:00PM (ADJ)
UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY	5:00PM-6:00AM (ADJ)
	SATURDAY THROUGH SUNDAY	ALL DAY

SUPPLY FAN CONTROL:
DURING OCCUPIED MODE THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY WITH THE HEATING AND COOLING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AND ENSURE PROPER AIRFLOW ACROSS COIL. DURING UNOCCUPIED MODE THE SUPPLY FAN SHALL BE OFF.

VENTILATION AIR CONTROL:
DURING OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE OPEN TO MAINTAIN THE MINIMUM SCHEDULED OUTSIDE AIR.

COOLING MODE:
THE COOLING SETPOINT SHALL BE 74°F (ADJ). IF SPACE TEMPERATURE RISES ABOVE SETPOINT ENABLE STAGES OF COOLING TO SATISFY SETPOINT.

HEATING MODE:
THE HEATING SETPOINT SHALL BE 70°F (ADJ). IF SPACE TEMPERATURE FALLS BELOW SETPOINT ENABLE STAGES OF HEATING TO SATISFY SETPOINT.

MORNING START-UP OPERATION:
THE FMCS SHALL MEASURE THE SPACE TEMPERATURE AND OUTSIDE AIR TEMPERATURE TO DETERMINE THE MINIMUM RUNTIME TO WARM/COOL THE SPACES TO THEIR SETPOINT. WHEN THE COMPUTED START TIME IS REACHED THE FMCS SHALL ENABLE THE RTU.

ALARMS, INTERLOCKS, AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED BY THE TCC IN THE FIELD:
FIRE ALARM RELAY
SUPPLY FAN FAULT
DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ)
IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ) ABOVE OR BELOW SETPOINT IF THE FIRE ALARM SYSTEM IS ACTIVATED

ANY ASSOCIATED INTERLOCKED EXHAUST FANS SHALL OPERATE WHEN THE RTU IS OCCUPIED PER THE ABOVE BUILDING SCHEDULE.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OA TEMPERATURE AND HUMIDITY ON GRAPHIC PAGE. DISPLAY GRAPHICS OF EACH RTU USING INFORMATION RECEIVED FROM BACNET INTERFACE AND PROVIDED SENSORS. INFORMATION SHALL INCLUDE COOLING STATUS, HEATING STATUS, FAN STATUS, UNIT STATUS, SPACE TEMPERATURE, SUPPLY AIR TEMPERATURE, FAULT CODE, FILTER STATUS, OCCUPANCY, SPACE PRESSURE, AND GENERAL ALARM.

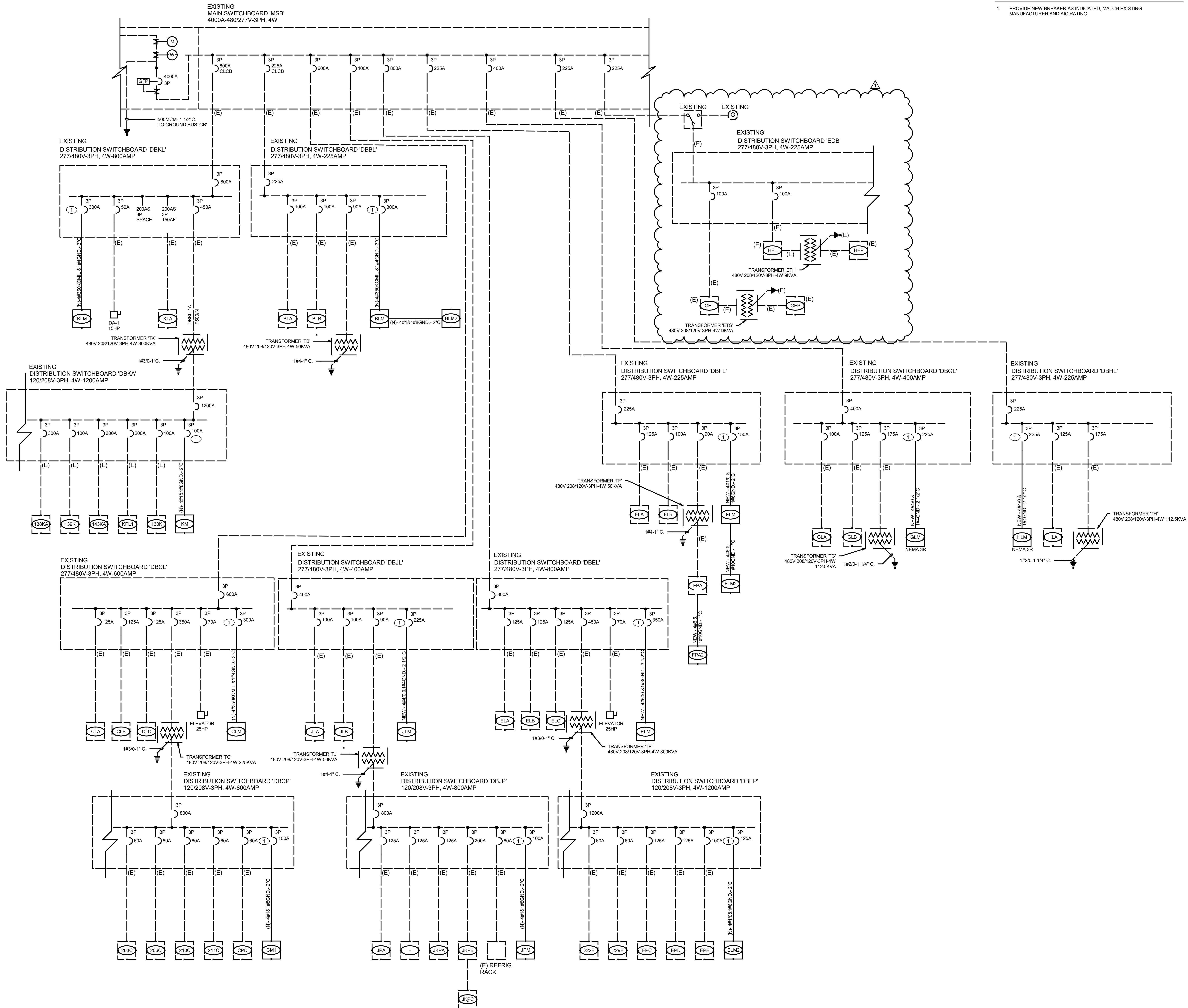
AAON MAKEUP AIR UNITS (DOAS-K1 DOAS-K2 & DOAS-K3)

NTS 2

NOT USED

NTS 4

1. PROVIDE NEW BREAKER AS INDICATED, MATCH EXISTING MANUFACTURER AND AIC RATING.

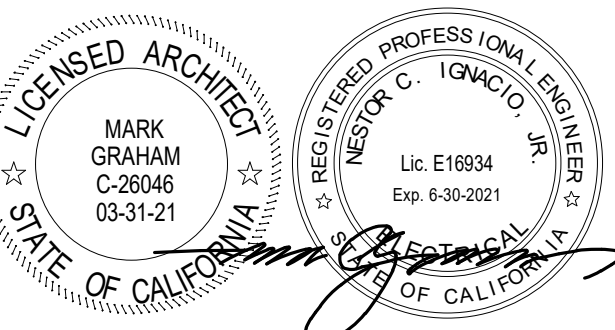


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DRAWN: Author CHECKED: Checker
DATE: Issue Date SCALE:
PROJECT NUMBER: Project Number

SINGLE LINE DIAGRAM

DRAWING NUMBER: **E0.2**

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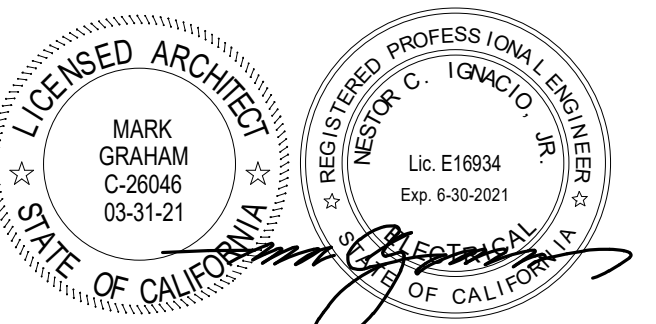
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Table with 4 columns: NO, DATE, BY, DESCRIPTION. Row 1: 1, 08/25/20, Addendum 1.

Table with 2 columns: DRAWN, CHECKED, DATE, SCALE, PROJECT NUMBER, NUMBER.

PANEL SCHEDULES

DRAWING NUMBER: E0.3

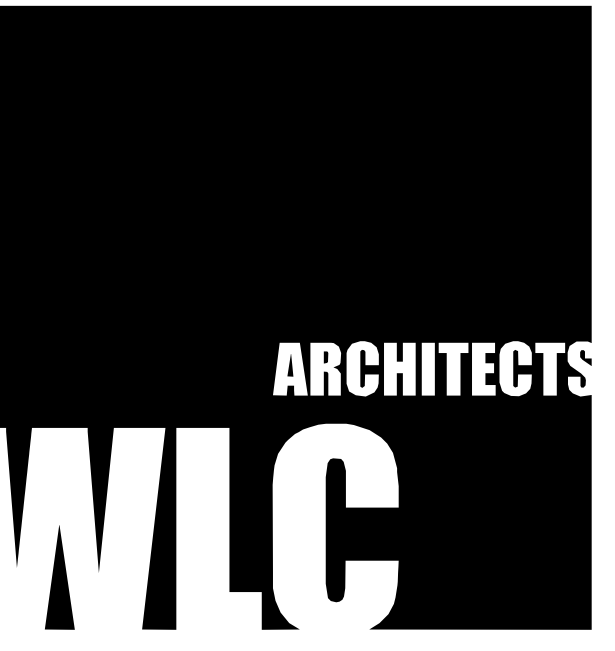
PANEL NAME: CLM. Includes header with connection data, panel notes, and a detailed table with columns for CT NO, LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, WIRE ID, A, B, C, WIRE ID, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CT NO.

PANEL NAME: BLM. Includes header with connection data, panel notes, and a detailed table with columns for CT NO, LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, WIRE ID, A, B, C, WIRE ID, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CT NO.

PANEL NAME: CM1. Includes header with connection data, panel notes, and a detailed table with columns for CT NO, LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, WIRE ID, A, B, C, WIRE ID, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CT NO.

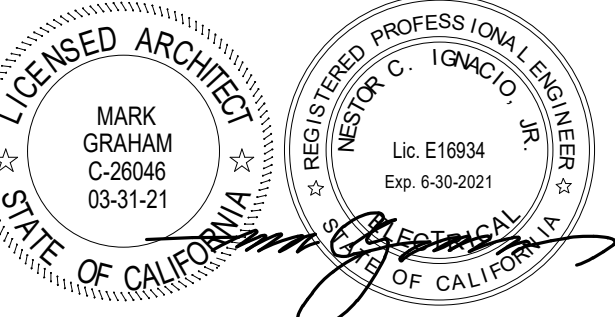
PANEL NAME: BLM2. Includes header with connection data, panel notes, and a detailed table with columns for CT NO, LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, WIRE ID, A, B, C, WIRE ID, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CT NO.

- **WHERE LOCK-ON DEVICE IS PROVIDED**
• BREAKER SHALL BE RED IN COLOR
• IDENTIFIED AS FIRE ALARM CIRCUIT
• LOCATION OF CB SHALL BE PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT



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(EXISTING) PANEL NAME: FPA
Panel Notes:
Table with 11 columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, WIRE ID, A, B, C, WIRE ID, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO.
Total Load: 0 KVA, 0 KVA, 0 KVA
Total Amps: 0, 0, 0

PANEL NAME: KLM
Panel Notes:
Table with 11 columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, WIRE ID, A, B, C, WIRE ID, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO.
Total Load: 64.15 KVA, 64.15 KVA, 64.15 KVA
Total Amps: 231.6, 231.6, 231.6

PANEL NAME: FPA2
Panel Notes:
Table with 11 columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, WIRE ID, A, B, C, WIRE ID, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO.
Total Load: 0 KVA, 0 KVA, 0 KVA
Total Amps: 0, 0, 0
[Key*]: 1. PROVIDE LOCK-ON DEVICE

WHERE LOCK-ON DEVICE IS PROVIDED
• BREAKER SHALL BE RED IN COLOR
• IDENTIFIED AS FIRE ALARM CIRCUIT
• LOCATION OF CB SHALL BE PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT

PANEL NAME: KM
Panel Notes:
Table with 11 columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, WIRE ID, A, B, C, WIRE ID, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO.
Total Load: 3.9 KVA, 3.79 KVA, 3.33 KVA
Total Amps: 33.09, 32.18, 27.79
[Key*]: 1. PROVIDE LOCK-ON DEVICE

WHERE LOCK-ON DEVICE IS PROVIDED
• BREAKER SHALL BE RED IN COLOR
• IDENTIFIED AS FIRE ALARM CIRCUIT
• LOCATION OF CB SHALL BE PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT

Table with 2 columns: NO, DATE, BY, DESCRIPTION
1 | 08/25/20 | Addendum 1

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PANEL SCHEDULES

DRAWING NUMBER: E0.6

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LICENSED ARCHITECT
MARK GRAMM
C-26946
03-31-21
REGISTERED PROFESSIONAL ENGINEER
RESPECT C. 106010
Lic. E16934
Exp. 6-30-2021
STATE OF CALIFORNIA

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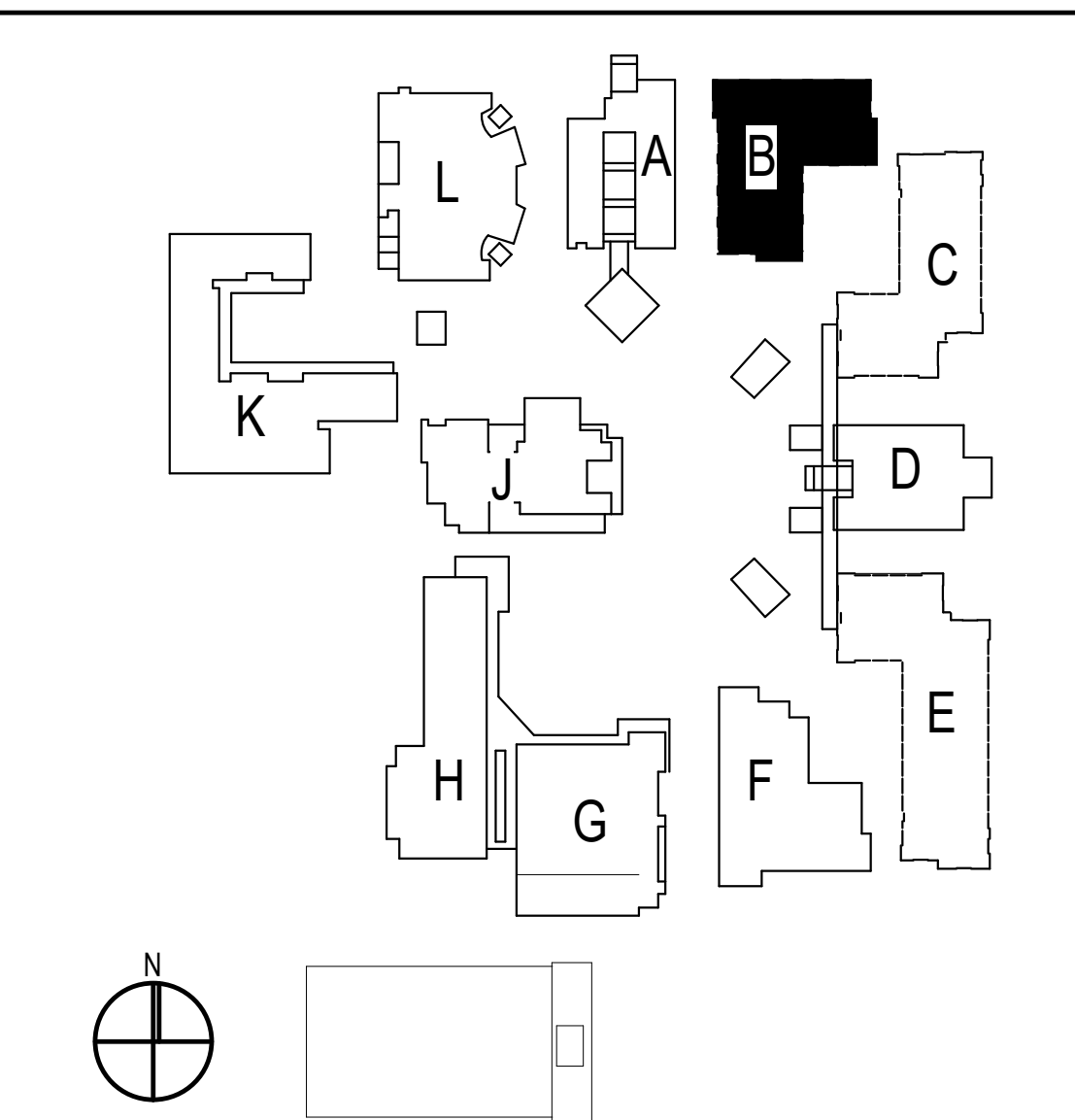
GENERAL NOTES

- REMOVE AND RE-INSTALL POWER AND SIGNAL (NETWORK CABLE AT THE REPLACEMENT EMS PANEL (TYP TO ALL BUILDINGS) EXTEND CIRCUITS AS REQUIRED.

KEYED NOTES

- PROVIDE DEDICATED 120V CIRCUIT POWER SOURCE TO NEAREST AVAILABLE CIRCUIT. PROVIDE "LOCK OUT" DEVICE TO BREAKER AND RE-LABEL INDICATING THE AREA TO BE SHUT OFF.
- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING
 - REMOVE WAP AND/OR MOTION DETECTOR FROM ACOUSTICAL TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON NEW ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON-AFFECTED CEILING AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON NEW ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING FIXTURES/EXIT SIGNS AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING
 - REMOVE LIGHT FIXTURES AND SALVAGE FOR FUTURE RE-INSTALLATION.
 - REMOVE POWER TO FIXTURES BACK TO JUNCTION BOX FEEDING AREA.
 - RE-INSTALL FIXTURES BACK ON NEW ACOUSTICAL CEILING. LAYOUT SHALL REMAIN THE SAME AS EXISTING PRIOR TO ACOUSTICAL CEILING DEMOLITION.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



1	08/25/20	Addendum 1	
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**BUILDING B
REMODEL FLOOR
PLAN**

DRAWING NUMBER: **EB2.1**



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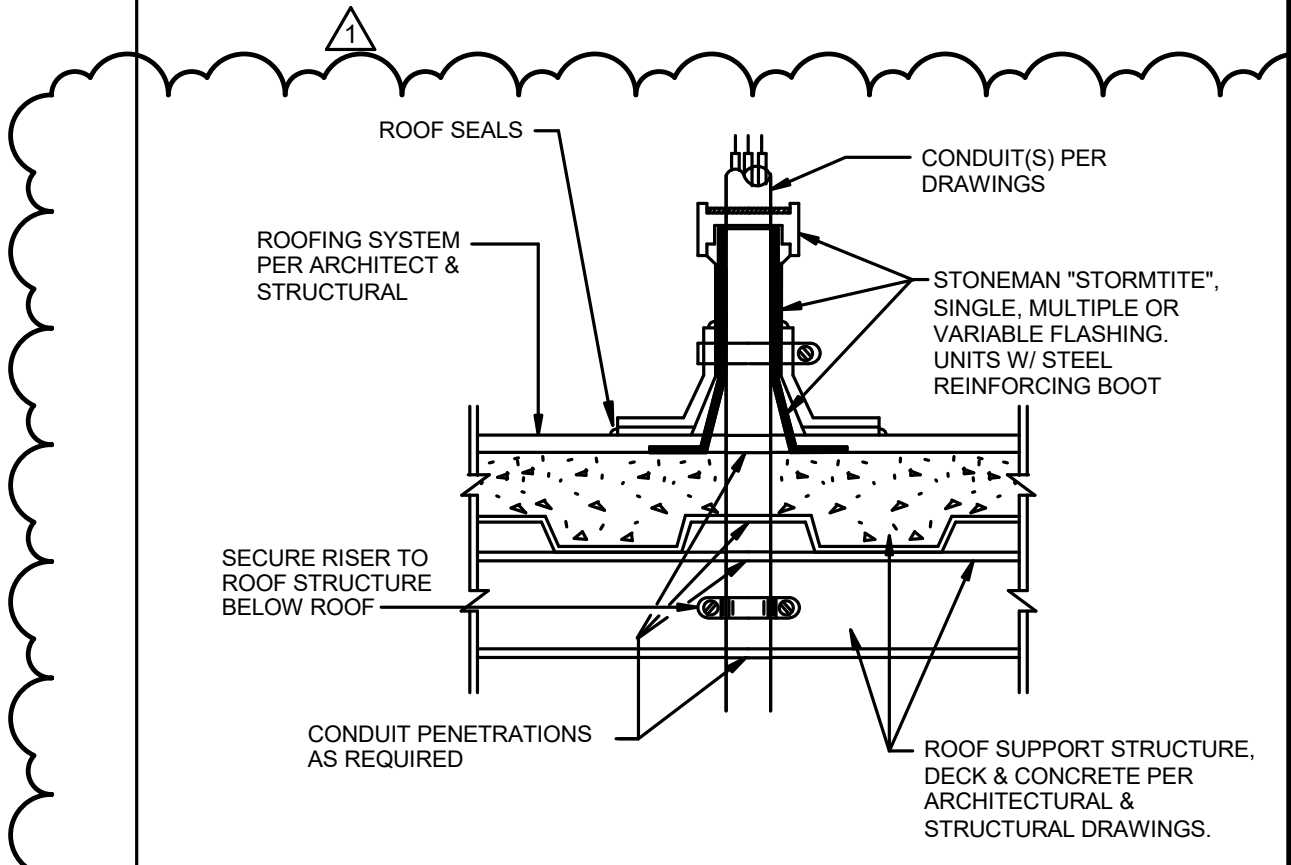
GENERAL NOTES

1. PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
2. ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
3. COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 5B RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

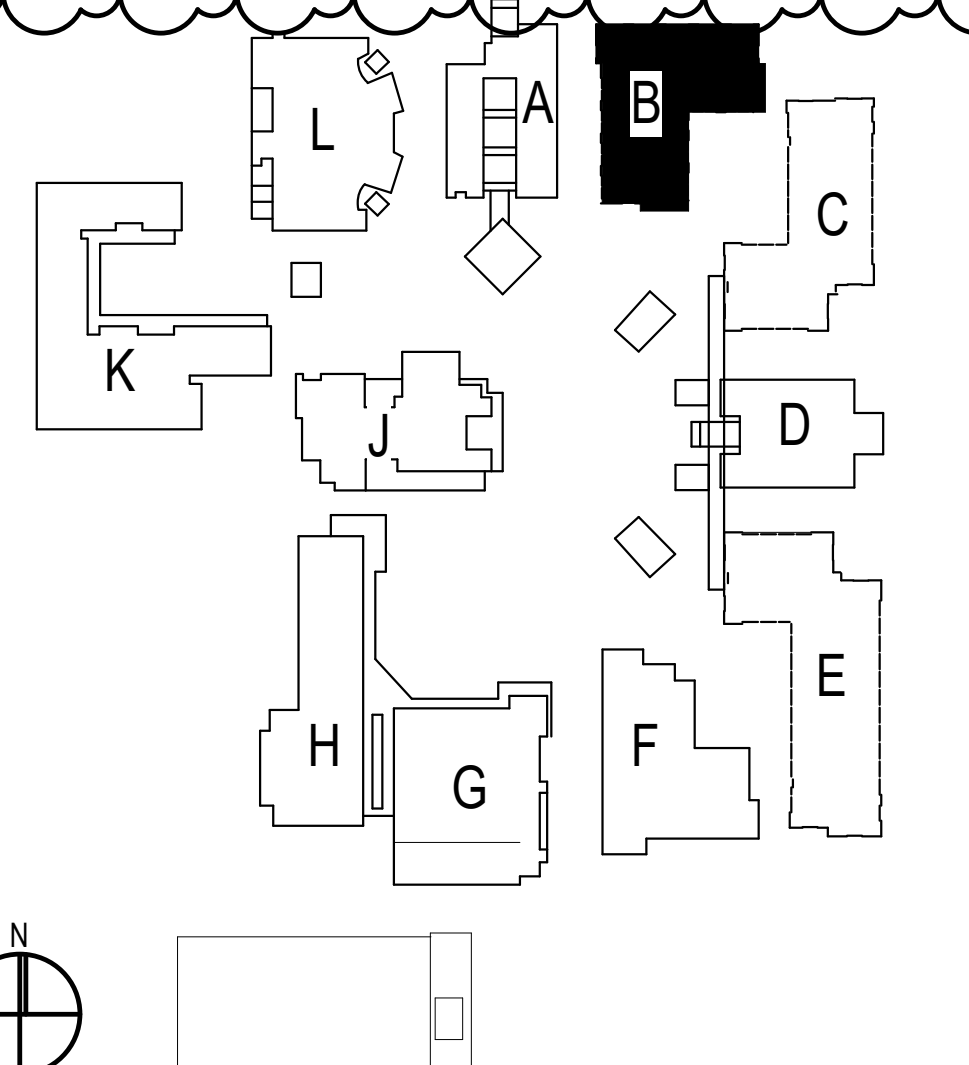
KEYED NOTES

1. PROVIDE 34°C O.(S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON THE CONTROL PLAN.
2. DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING EQUIPMENT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.
3. PROVIDE 20A BREAKER WITH 2#12 & 1#12GND-34°C TO NEAREST PANEL BELOW AT AVAILABLE SPARE CIRCUIT.

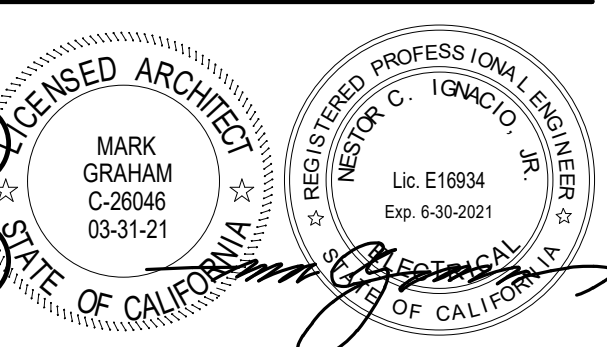
ITEM NO.	V - Ø	MCA (HP)	MOC	WIRE SIZE
AC-B1	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B2	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B3	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B4	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B5	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B6	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B7	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B8	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B9	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B10	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B11	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B12	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B13	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B14	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B15	480 - 3	10	30AS/15AF	3#12 & 1#12 GND - 3/4" C
AC-B16	480 - 3	10	30AS/15AF	3#12 & 1#12 GND - 3/4" C



CONDUIT ROOF PENETRATION DETAIL N.T.S. 2



SITE KEY PLAN



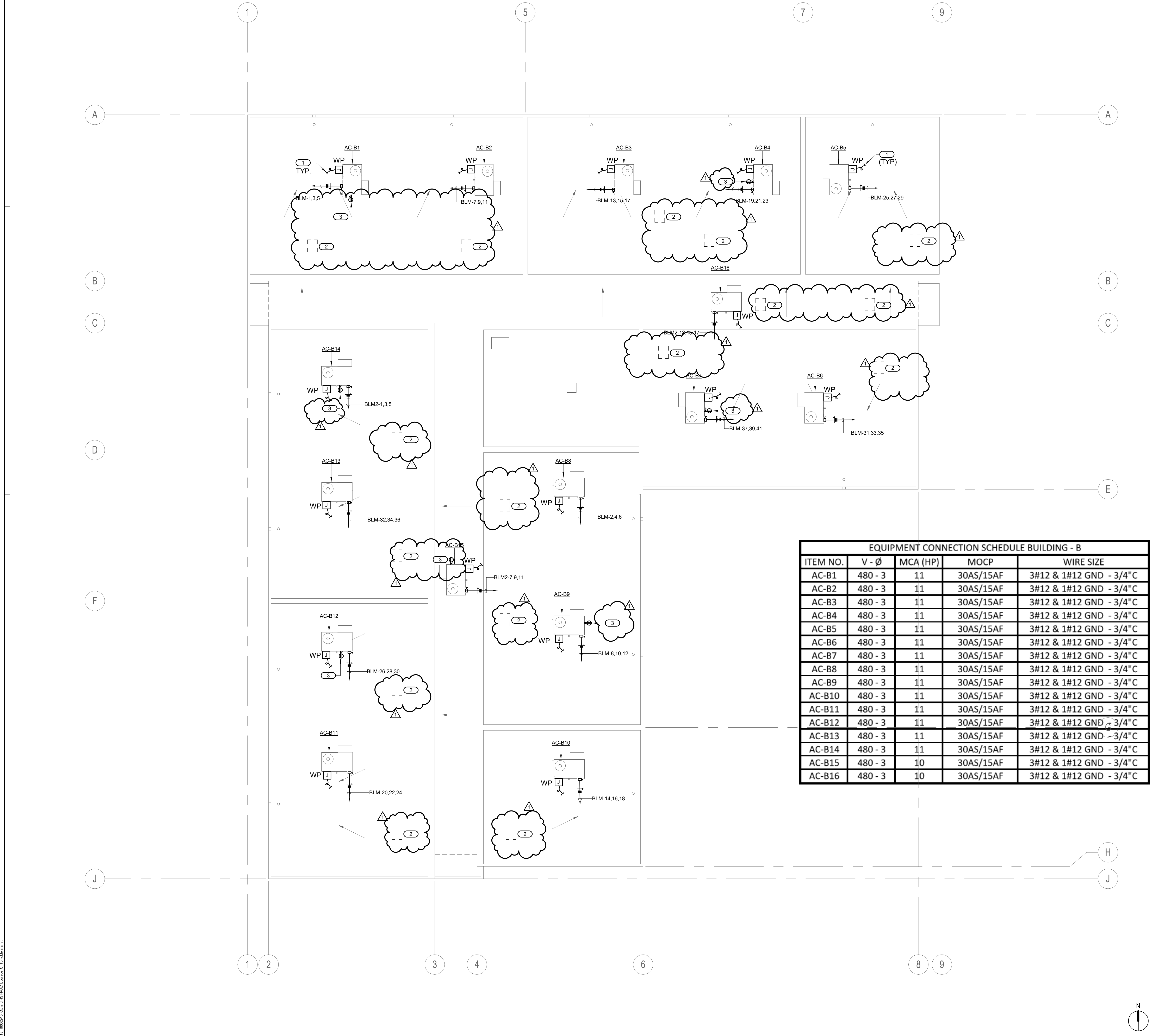
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08/25/20	Addendum 1		
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REVISIONS			

DRAWN: Author CHECKED: Checker
DATE: Issue Date SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project Number

**BUILDING B
REMODEL ROOF
PLAN**

DRAWING NUMBER: **EB3.1**



KEYED NOTES

- NOT USED.
- PROVIDE 3/4" O.D. (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- NOT USED.
- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR & PROJECTOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 45 BOX, & 45 RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-5 CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 45 BOX, & 45 RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS, INTERCEPT CONFLICTING CONDUIT AND RE-ROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE RE-ROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR ELECTRICAL CONDUIT PROVIDE NEW CONDUCTORS FROM NEW JUNCTION BOXES AND SPLICE CONDUCTORS TO BE EXTENDED. MATCH EXISTING CONDUCTORS TO BE SPLICED.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
 - FOR TECHNOLOGY/LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.
- INSTALL DISCONNECT ON OR NEXT TO MECHANICAL UNIT. DISCONNECT SHALL HAVE THREE FEET CLEARANCE IN FRONT FOR SERVICE CLEARANCE.
- PROVIDE CLEARANCE FOR MECHANICAL UNIT. ANY CONDUIT SHALL BE RE-ROUTED ACCORDINGLY.

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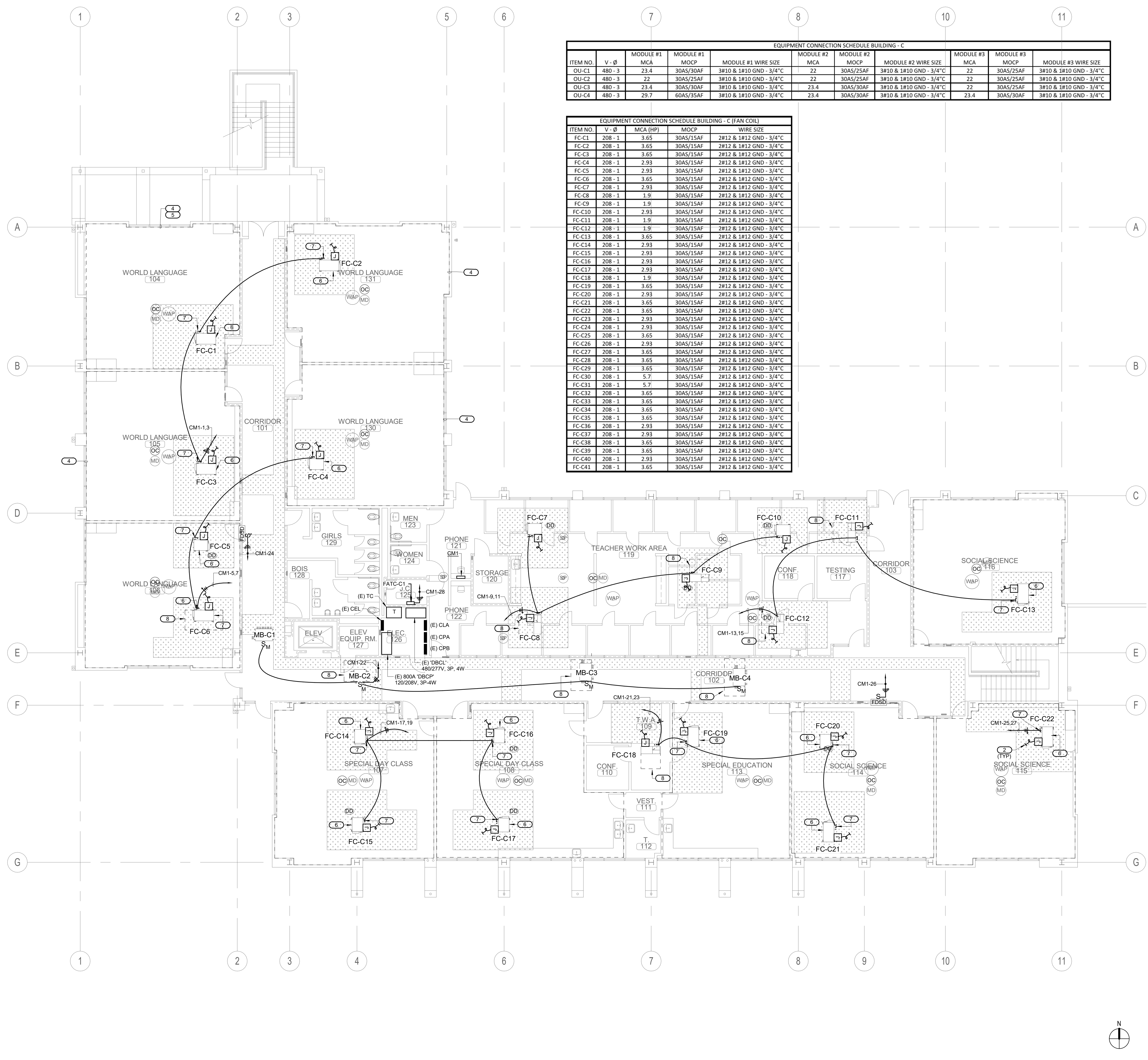
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PROJECT NUMBER:	Project Number		

**BUILDING C
REMODEL 1ST
FLOOR PLAN**

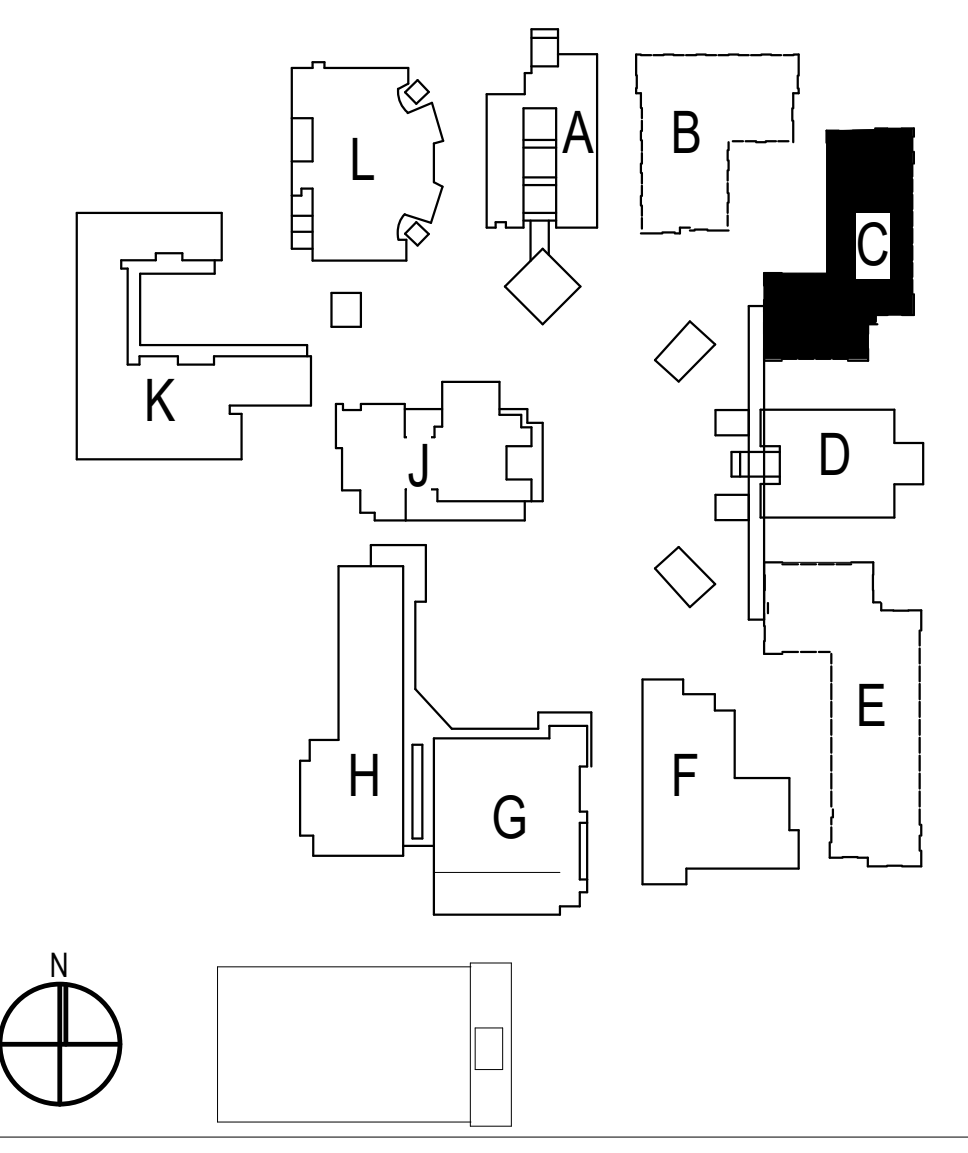
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ITEM NO.	V - Ø	MCA	MODULE #1 MOCF	MODULE #1 MOCF	MODULE #1 WIRE SIZE	MODULE #2 MCA	MODULE #2 MOCF	MODULE #2 WIRE SIZE	MODULE #3 MCA	MODULE #3 MOCF	MODULE #3 WIRE SIZE
OU-C1	480 - 3	23.4	30AS/30AF	30AS/30AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C
OU-C2	480 - 3	22	30AS/25AF	30AS/25AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C
OU-C3	480 - 3	23.4	30AS/30AF	30AS/30AF	3#10 & 1#10 GND - 3/4" C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C
OU-C4	480 - 3	29.7	60AS/35AF	60AS/35AF	3#10 & 1#10 GND - 3/4" C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C

ITEM NO.	V - Ø	MCA (HP)	MOCF	WIRE SIZE
FC-C1	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C2	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C3	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C4	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C5	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C6	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C7	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C8	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C9	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C10	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C11	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C12	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C13	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C14	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C15	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C16	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C17	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C18	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C19	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C20	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C21	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C22	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C23	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C24	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C25	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C26	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C27	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C28	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C29	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C30	208 - 1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C31	208 - 1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C32	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C33	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C34	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C35	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C36	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C37	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C38	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C39	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C40	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-C41	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4" C



REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



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KEYED NOTES

- NOT USED.
- PROVIDE 34°C.O(S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING REFER TO THE EQUIPMENT CONNECTION SCHEDULES FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- NOT USED.
- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR & PROJECTOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RINGCOVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
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 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
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 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
 - FOR TECHNOLOGY/LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.
- INSTALL DISCONNECT ON OR NEXT TO MECHANICAL UNIT. DISCONNECT SHALL HAVE THREE FEET CLEARANCE IN FRONT FOR SERVICE CLEARANCE.

ARCHITECTS
WLC

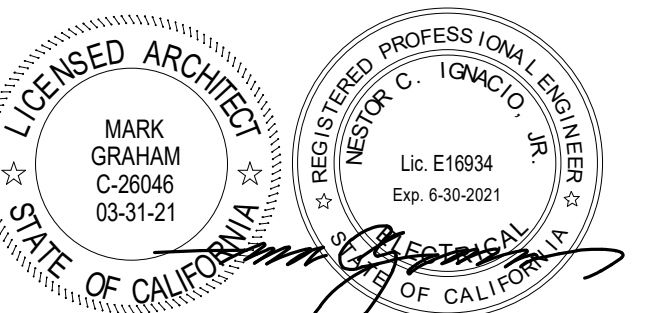
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1	08/25/20	Addendum 1
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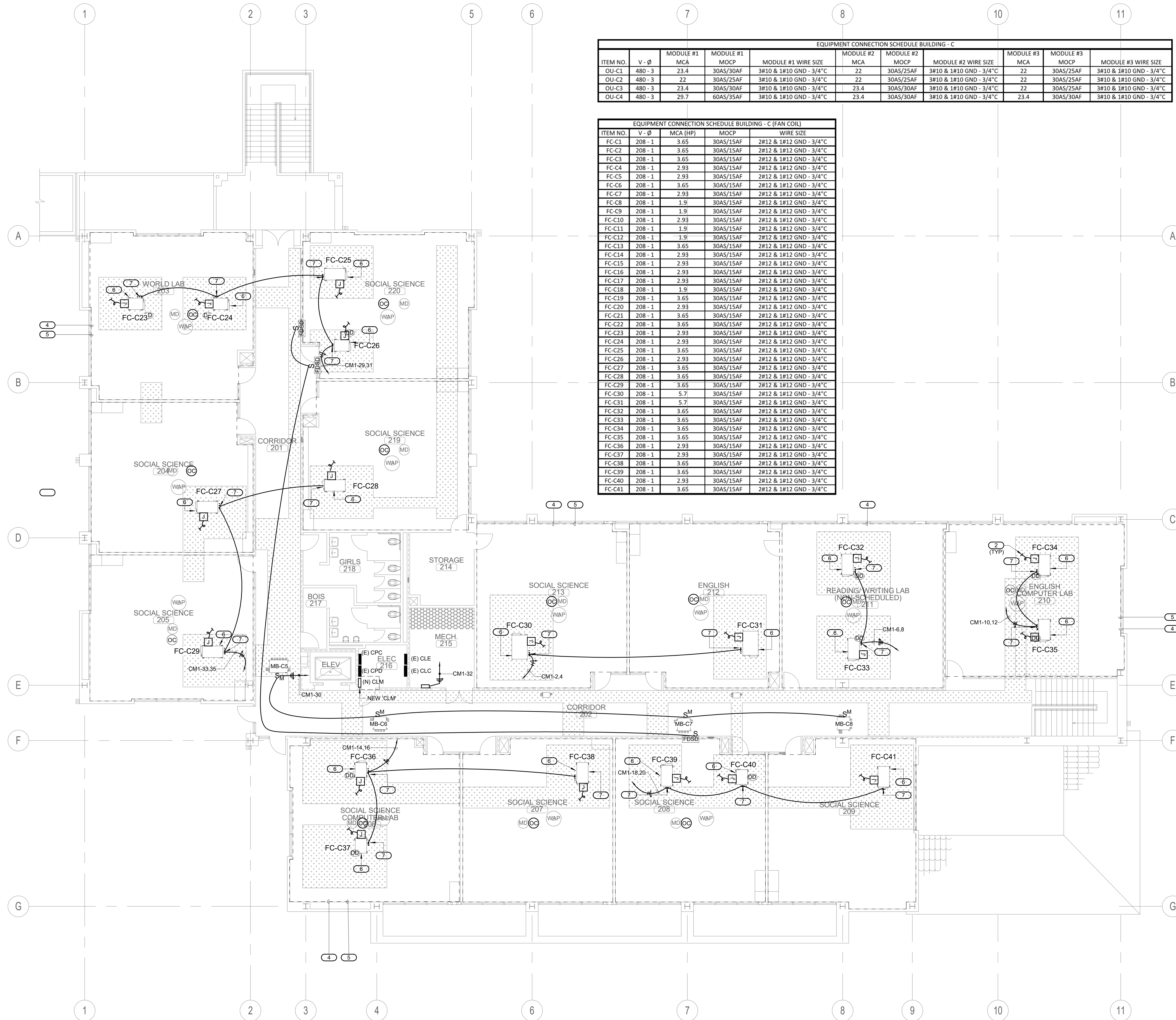
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DATE:	Issue Date	SCALE:	As indicated
PROJECT NUMBER:	Project Number		

**BUILDING C
REMODEL 2ND
FLOOR PLAN**

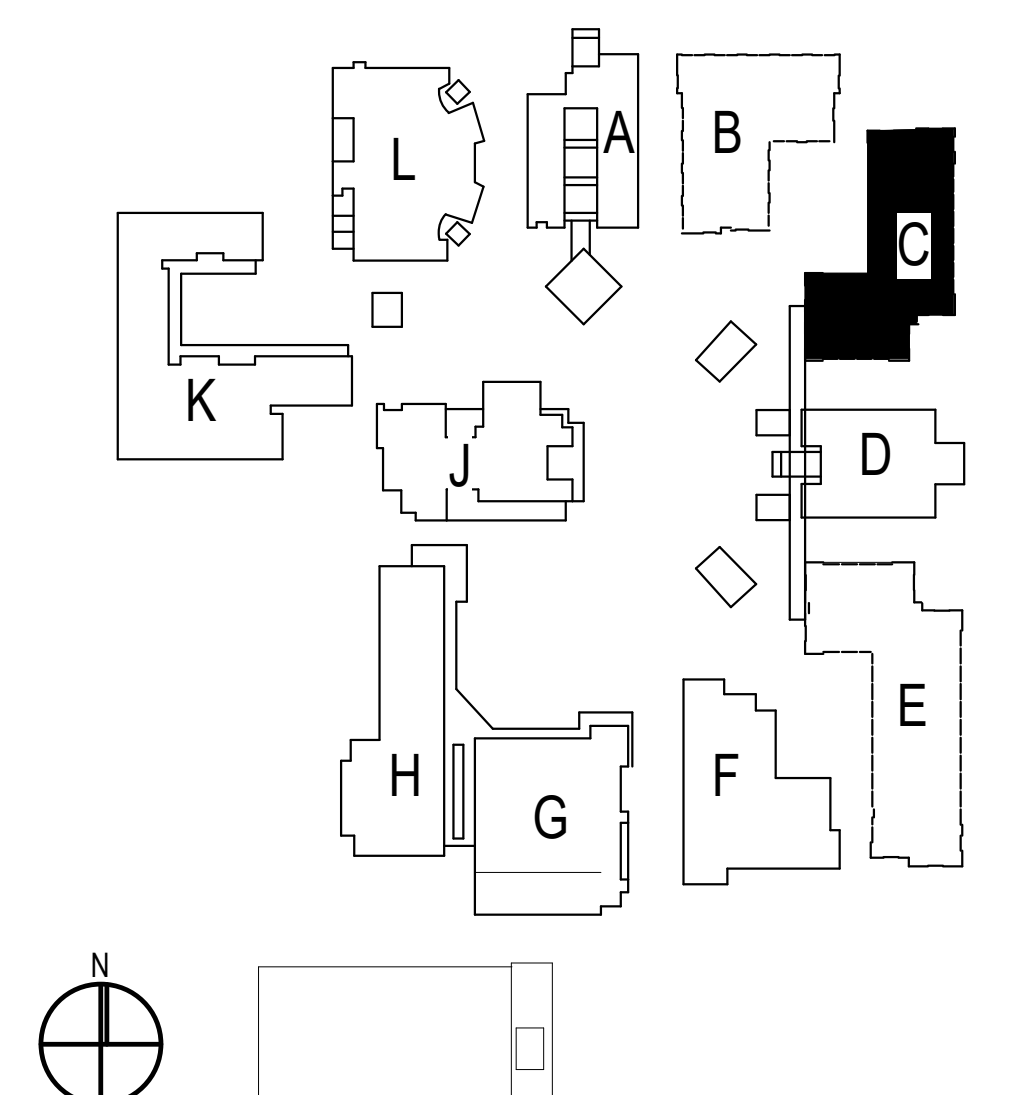
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EQUIPMENT CONNECTION SCHEDULE BUILDING - C										
ITEM NO.	V - Ø	MODULE #1 MCA	MODULE #1 MOC	MODULE #1 WIRE SIZE	MODULE #2 MCA	MODULE #2 MOC	MODULE #2 WIRE SIZE	MODULE #3 MCA	MODULE #3 MOC	MODULE #3 WIRE SIZE
OU-C1	480 - 3	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C
OU-C2	480 - 3	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C
OU-C3	480 - 3	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C	22	30AS/25AF	3#10 & 1#10 GND - 3/4" C
OU-C4	480 - 3	29.7	60AS/35AF	3#10 & 1#10 GND - 3/4" C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C

EQUIPMENT CONNECTION SCHEDULE BUILDING - C (FAN COIL)			
ITEM NO.	V - Ø	MCA (HP)	WIRE SIZE
FC-C1	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C2	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C3	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C4	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C5	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C6	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C7	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C8	208 - 1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C9	208 - 1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C10	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C11	208 - 1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C12	208 - 1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C13	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C14	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C15	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C16	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C17	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C18	208 - 1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C19	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C20	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C21	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C22	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C23	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C24	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C25	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C26	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C27	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C28	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C29	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C30	208 - 1	5.7	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C31	208 - 1	5.7	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C32	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C33	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C34	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C35	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C36	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C37	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C38	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C39	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C40	208 - 1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4" C
FC-C41	208 - 1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4" C



REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



GENERAL NOTES

- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFCI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 5B RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

KEYED NOTES

- PROVIDE 3/4" O.D. (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.

ARCHITECTS

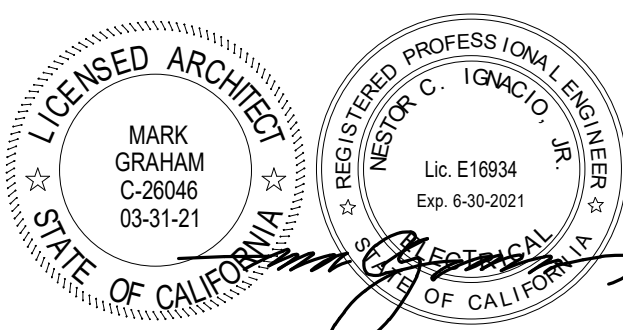


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1 08/25/20 Addendum 1

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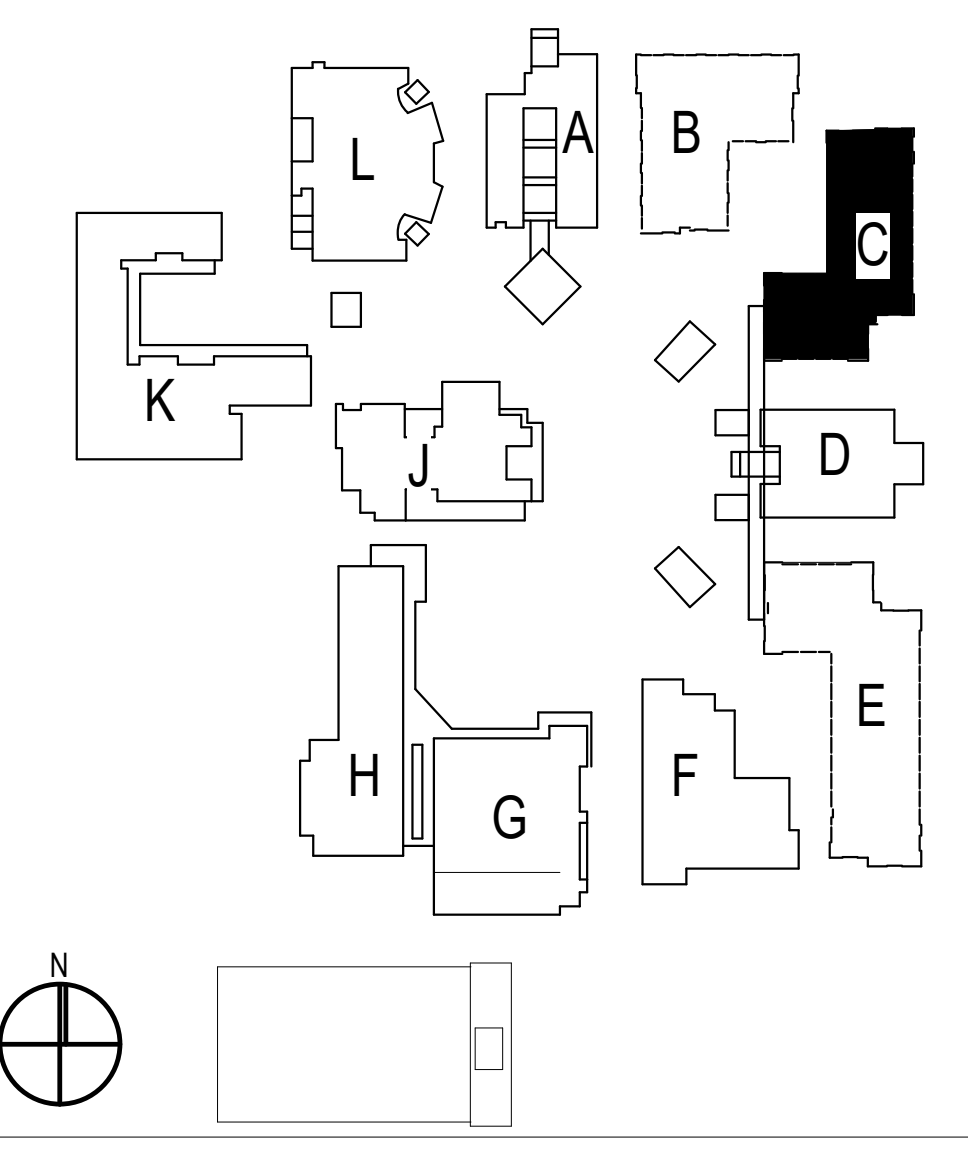
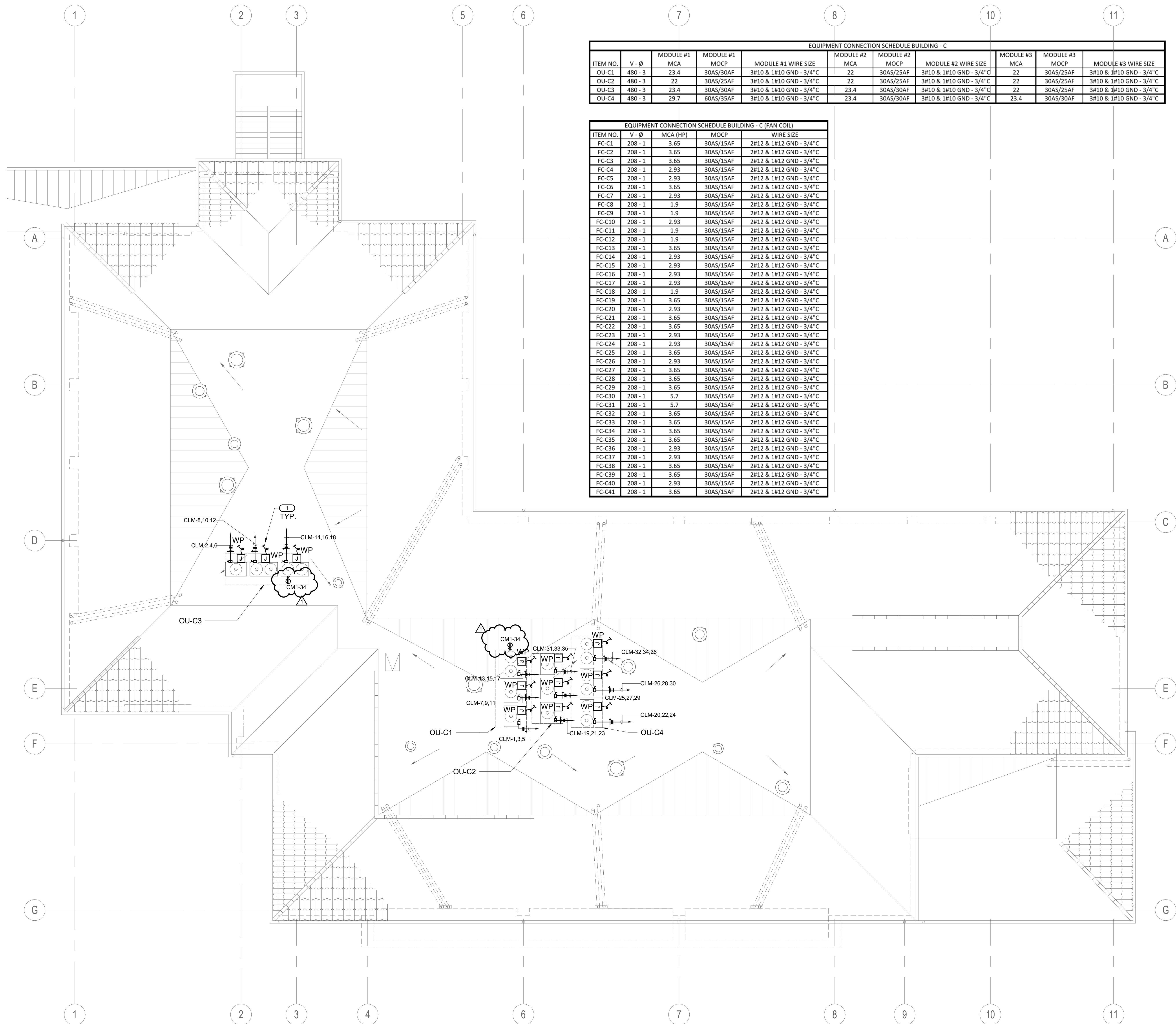
DRAWN: Author CHECKED: Checker
 DATE: Issue Date SCALE: 1/8" = 1'-0"
 PROJECT NUMBER: Project Number

**BUILDING C
 REMODEL ROOF
 PLAN**

DRAWING NUMBER: **EC3.1**

ITEM NO.	V - Ø	MODULE #1		MODULE #2		MODULE #3	
		MCA	MCCP	MCA	MCCP	MCA	MCCP
OU-C1	480 - 3	23.4	30AS/30AF	22	30AS/25AF	22	30AS/25AF
OU-C2	480 - 3	22	30AS/25AF	22	30AS/25AF	22	30AS/25AF
OU-C3	480 - 3	23.4	30AS/30AF	23.4	30AS/30AF	22	30AS/25AF
OU-C4	480 - 3	29.7	60AS/35AF	23.4	30AS/30AF	23.4	30AS/30AF

ITEM NO.	V - Ø	MCA (HP)		WIRE SIZE
		MCA	MCCP	
FC-C1	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C2	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C3	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C4	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C5	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C6	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C7	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C8	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C9	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C10	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C11	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C12	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C13	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C14	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C15	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C16	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C17	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C18	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C19	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C20	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C21	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C22	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C23	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C24	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C25	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C26	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C27	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C28	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C29	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C30	208 - 1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C31	208 - 1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C32	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C33	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C34	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C35	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C36	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C37	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C38	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C39	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C40	208 - 1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-C41	208 - 1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C



BUILDING C REMODEL ROOF PLAN 1/8" = 1'-0" 1

SITE KEY PLAN

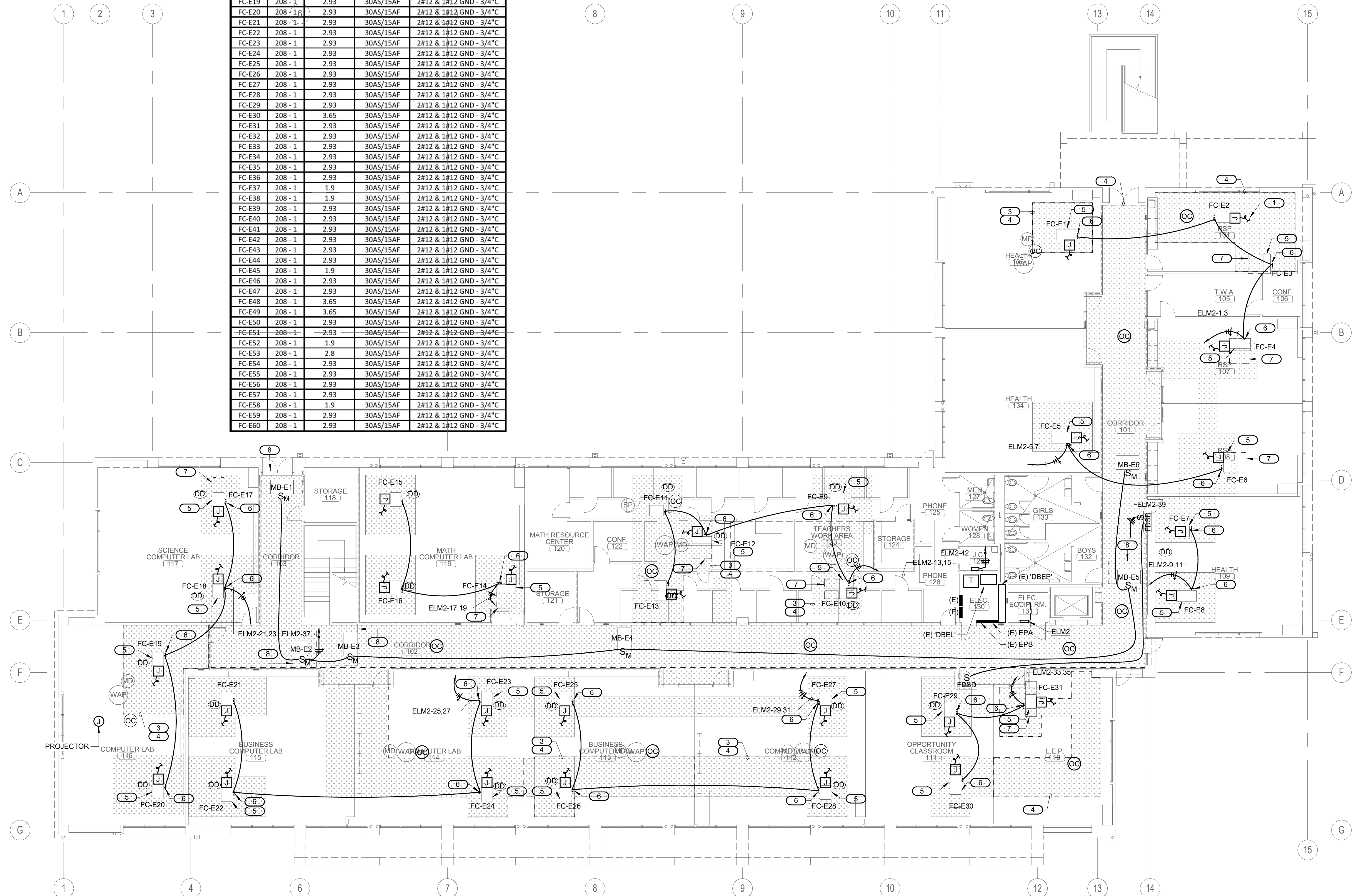
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KEYED NOTES

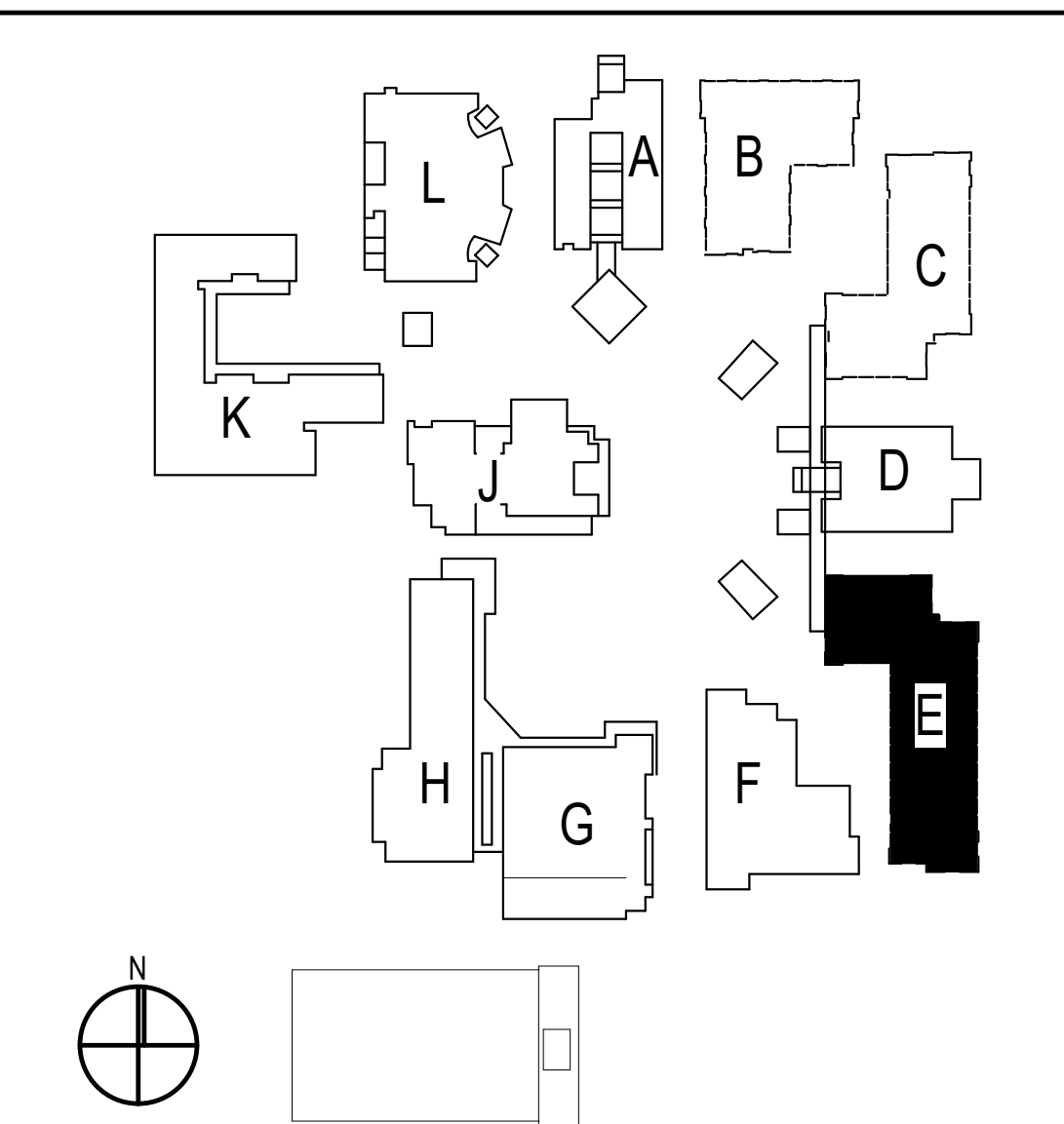
- PROVIDE 3/4" O (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- REMOVE WAF, MOTION DETECTOR & PROJECTOR FROM TILE.
- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT6 CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS, INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR ELECTRICAL CONDUIT PROVIDE NEW CONDUCTORS FROM NEW JUNCTION BOXES AND SPICE CONDUCTORS TO BE EXTENDED. MATCH EXISTING CONDUCTORS TO BE SPLICED.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
 - FOR TECHNOLOGY/LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.
- PROVIDE CLEARANCE FOR MECHANICAL UNIT. ANY CONDUIT SHALL BE RE-ROUTED ACCORDINGLY.
- PROVIDE CLEARANCE FOR MECHANICAL UNIT. ANY CONDUIT SHALL BE RE-ROUTED ACCORDINGLY.

ITEM NO.	V-Ø	MODULE #1 MCA (HP)	MODULE #1 MOCF	MODULE #1 WIRE SIZE	MODULE #2 MCA	MODULE #2 MOCF	MODULE #2 WIRE SIZE	MODULE #3 MCA	MODULE #3 MOCF	MODULE #3 WIRE SIZE
OU-E1	480-3	29.7	30AS/35AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E2	480-3	29.7	30AS/35AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E3	480-3	29.7	30AS/35AF	3#8 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E4	480-3	23.4	60AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C

ITEM NO.	V-Ø	MCA (HP)	MOCF	WIRE SIZE
FC-E1	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E2	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E3	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E4	208-1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E5	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E6	208-1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E7	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E8	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E9	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E10	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E11	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E12	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E13	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E14	208-1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E15	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E16	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E17	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E18	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E19	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E20	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E21	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E22	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E23	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E24	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E25	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E26	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E27	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E28	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E29	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E30	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E31	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E32	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E33	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E34	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E35	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E36	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E37	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E38	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E39	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E40	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E41	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E42	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E43	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E44	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E45	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E46	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E47	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E48	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E49	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E50	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E51	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E52	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E53	208-1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E54	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E55	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E56	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E57	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E58	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E59	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E60	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C



REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



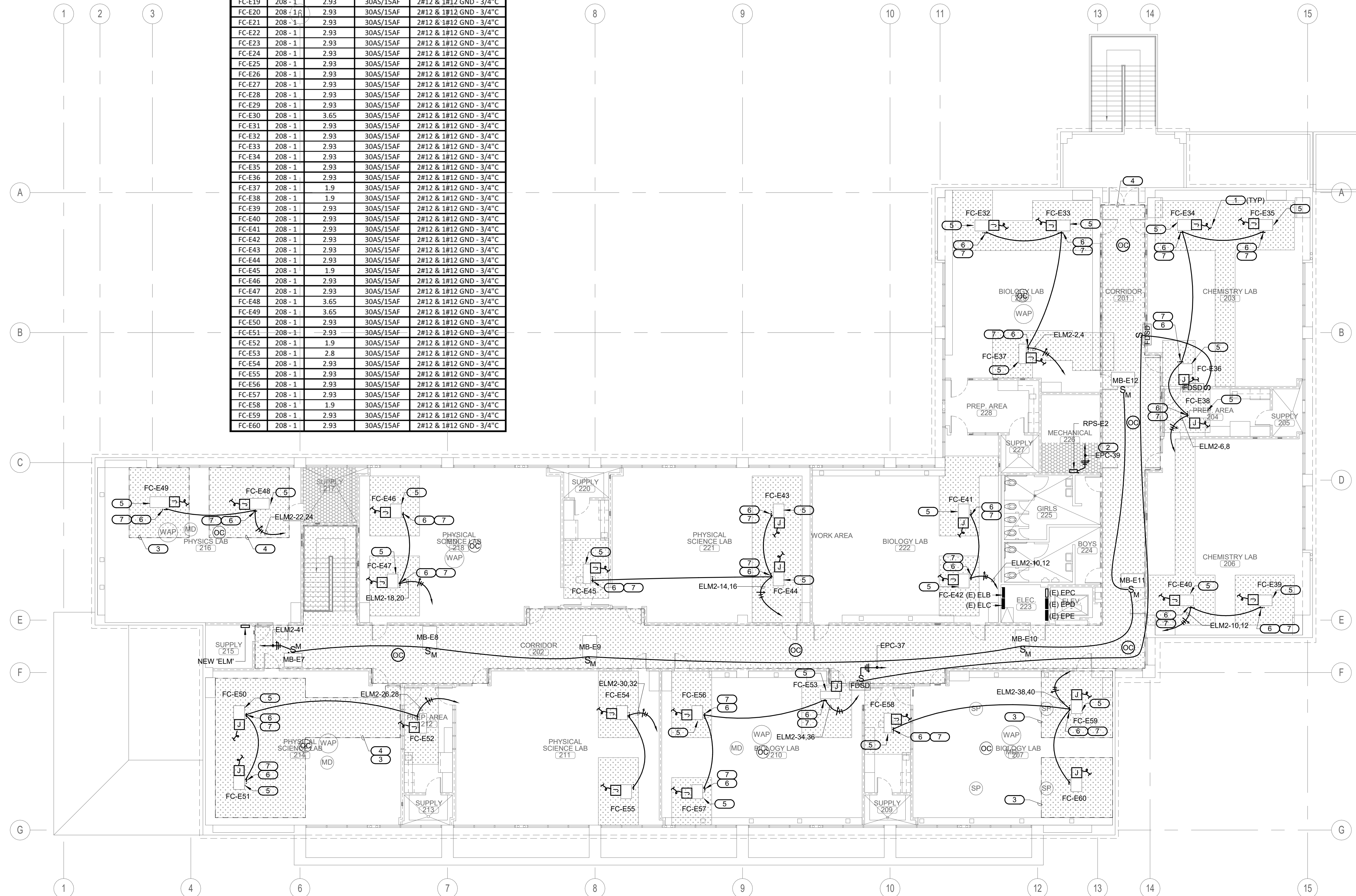
1	08/25/20	Addendum 1
NO	DATE	BY DESCRIPTION
REVISIONS		

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: As indicated
PROJECT NUMBER: Project Number	

**BUILDING E
REMODEL 1ST
FLOOR PLAN**

EQUIPMENT CONNECTION SCHEDULE BUILDING - E										
ITEM NO.	V-Ø	MODULE #1 MCA (HP)	MODULE #1 MOCF	MODULE #1 WIRE SIZE	MODULE #2 MCA	MODULE #2 MOCF	MODULE #2 WIRE SIZE	MODULE #3 MCA	MODULE #3 MOCF	MODULE #3 WIRE SIZE
OU-E1	480-3	29.7	30AS/35AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E2	480-3	29.7	30AS/35AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E3	480-3	29.7	30AS/35AF	3#8 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E4	480-3	23.4	60AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C

EQUIPMENT CONNECTION SCHEDULE BUILDING - E (FAN COIL)				
ITEM NO.	V-Ø	MCA (HP)	MOCF	WIRE SIZE
FC-E1	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E2	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E3	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E4	208-1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E5	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E6	208-1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E7	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E8	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E9	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E10	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E11	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E12	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E13	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E14	208-1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E15	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E16	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E17	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E18	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E19	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E20	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E21	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E22	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E23	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E24	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E25	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E26	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E27	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E28	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E29	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E30	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E31	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E32	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E33	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E34	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E35	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E36	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E37	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E38	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E39	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E40	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E41	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E42	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E43	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E44	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E45	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E46	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E47	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E48	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E49	208-1	3.65	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E50	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E51	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E52	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E53	208-1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E54	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E55	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E56	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E57	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E58	208-1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E59	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C
FC-E60	208-1	2.93	30AS/15AF	2#12 & 1#12 GND - 3/4"C



KEYED NOTES

- PROVIDE 3/4" O.D. (S) TO RESPECTIVE DEVICES FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- CONTRACTOR TO INTERCEPT AND EXTEND EXISTING CIRCUIT FEEDING THE EXISTING FIRE ALARM PANEL AND REUSE CIRCUIT TO FEED THE NEW FIRE ALARM PANEL. REFER TO FIRE ALARM PLANS FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY FINAL LOCATION PRIOR TO TROUGH-IN.
- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR & PROJECTOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS, INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR ELECTRICAL CONDUIT PROVIDE NEW CONDUCTORS FROM NEW JUNCTION BOXES AND SPLICE CONDUCTORS TO BE EXTENDED MATCH EXISTING CONDUCTORS TO BE SPLICED.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
 - FOR TECHNOLOGY/LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.
- INSTALL DISCONNECT ON OR NEXT TO MECHANICAL UNIT. DISCONNECT SHALL HAVE THREE FEET CLEARANCE IN FRONT FOR SERVICE CLEARANCE.
- PROVIDE CLEARANCE FOR MECHANICAL UNIT. ANY CONDUIT SHALL BE RE-ROUTED ACCORDINGLY.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.

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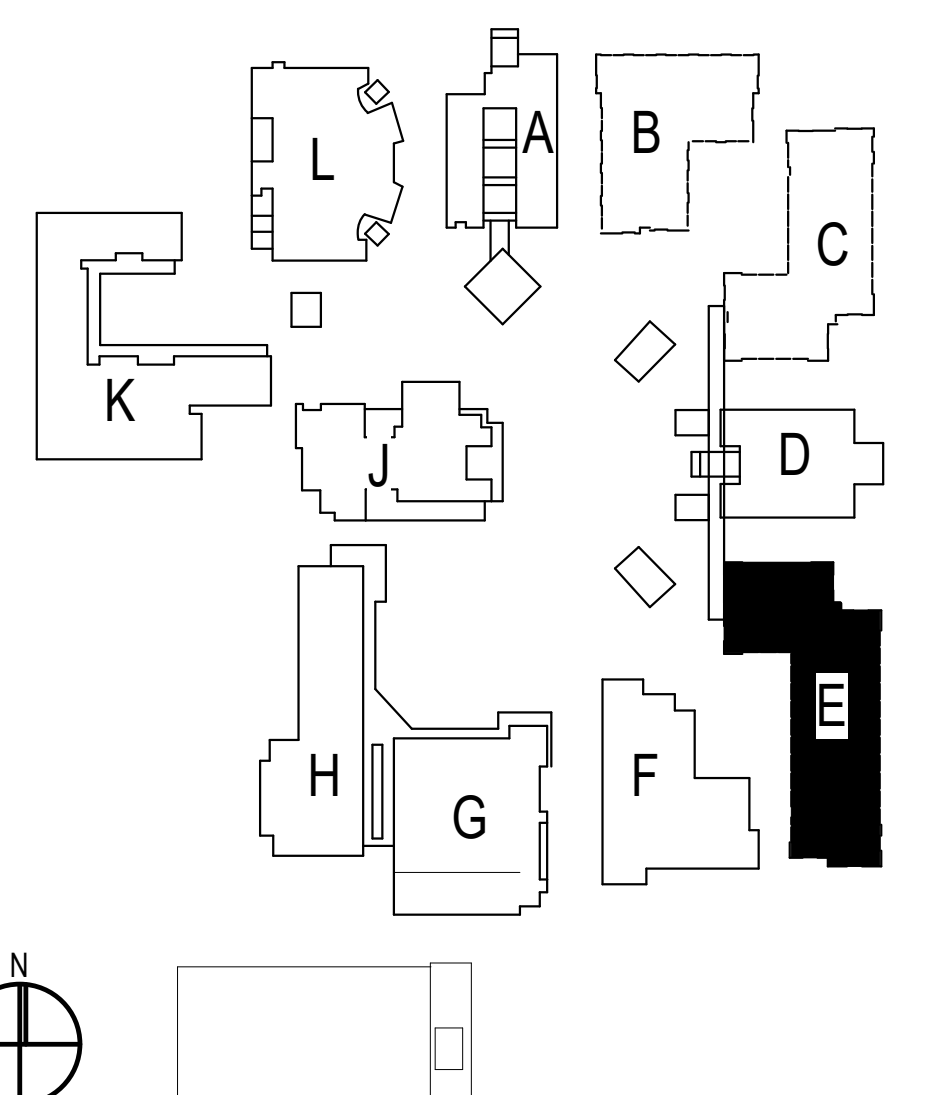
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1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: As indicated
PROJECT NUMBER: Project Number	

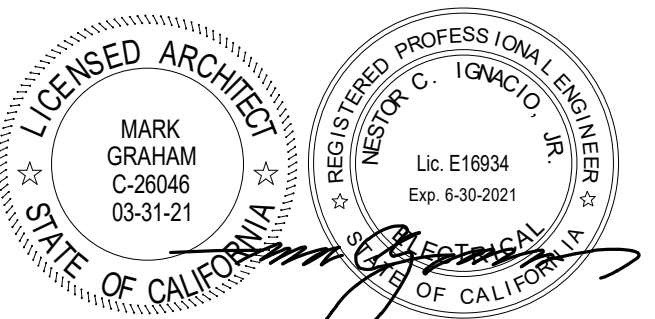
**BUILDING E
REMODEL 2ND
FLOOR PLAN**

DRAWING NUMBER: **EE2.3**



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1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: 3/32" = 1'-0"
PROJECT NUMBER: Project Number	Project Number

**BUILDING E
REMODEL ROOF
PLAN**

DRAWING NUMBER: **EE3.1**

GENERAL NOTES

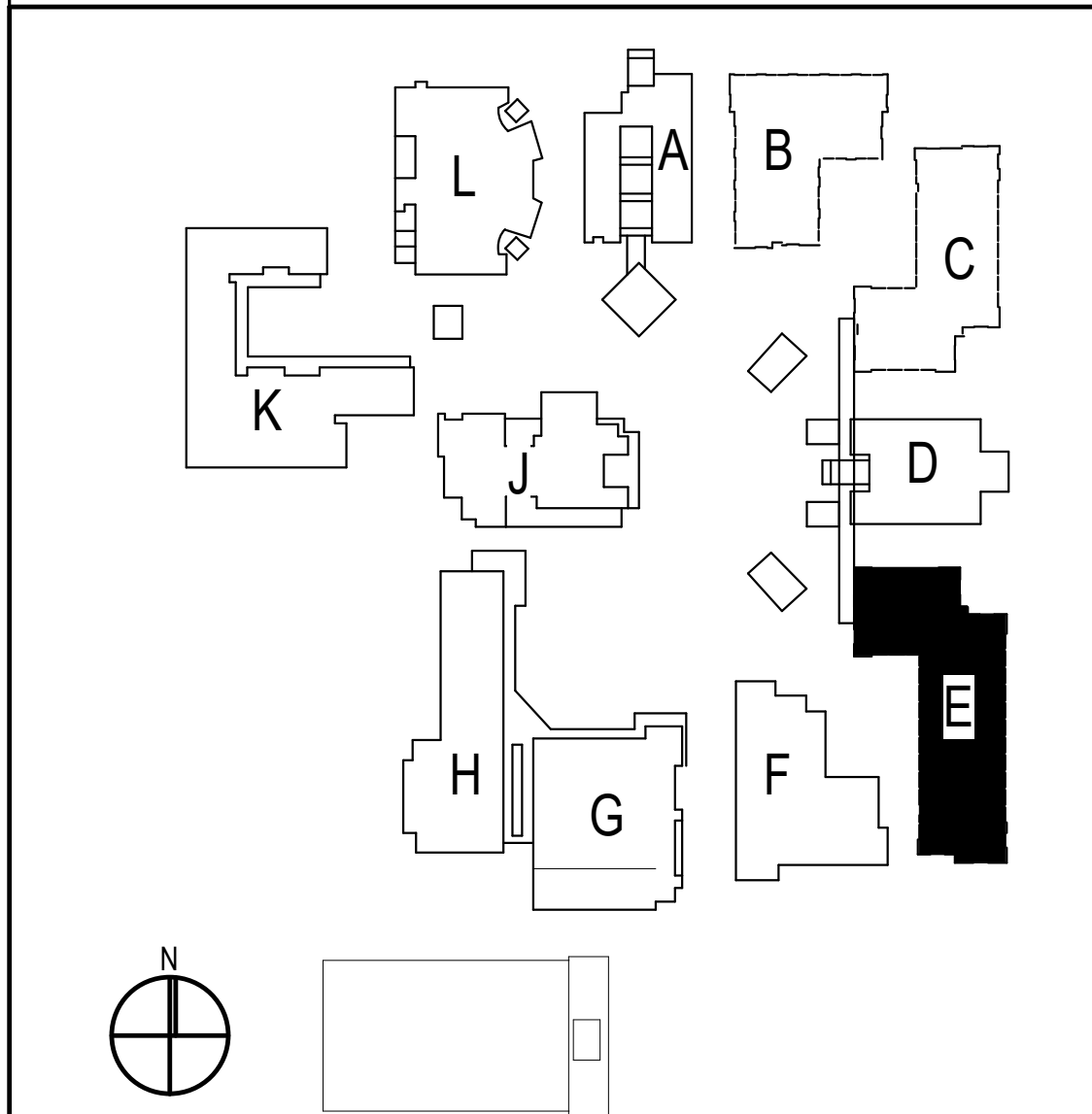
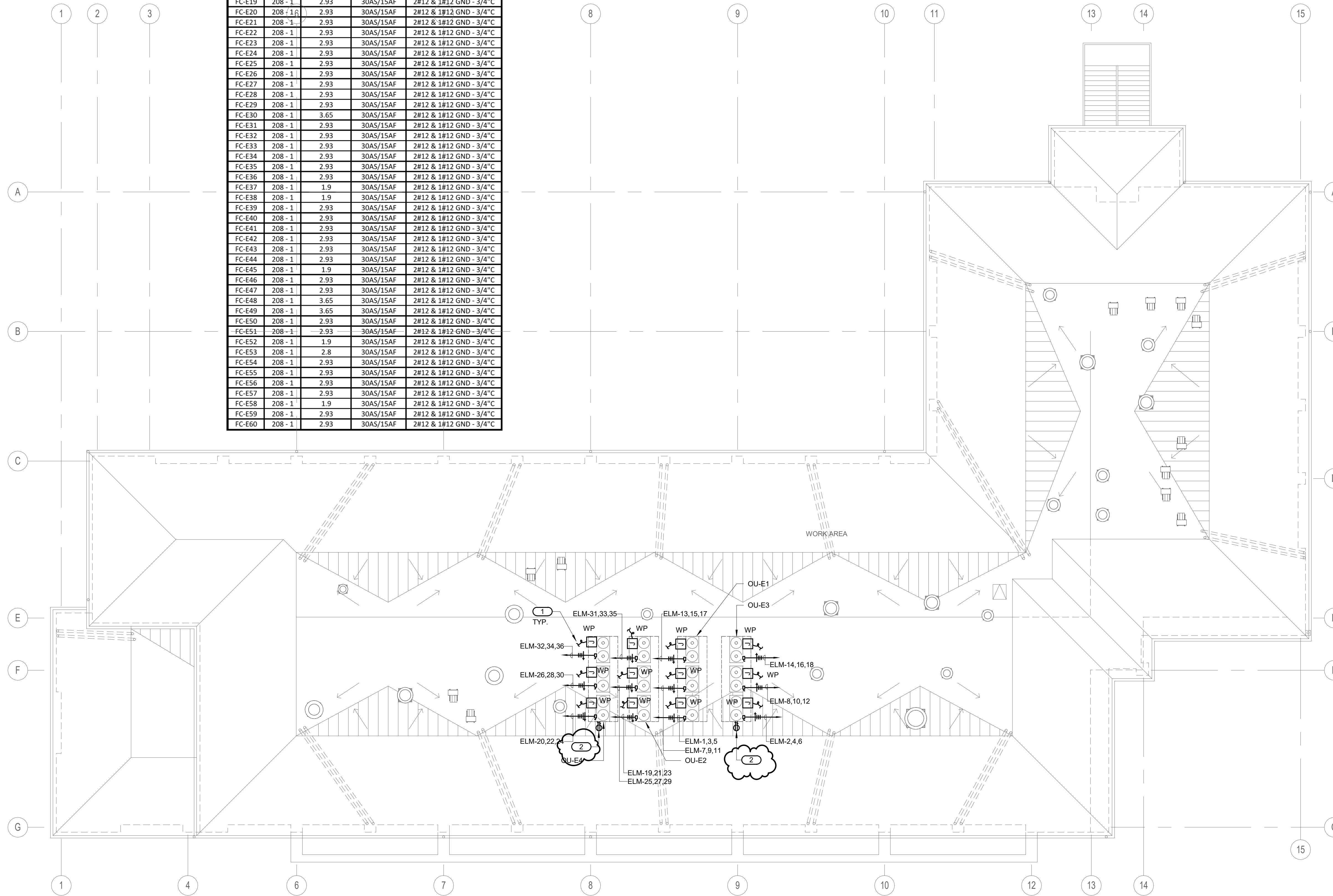
- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 58 RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

KEYED NOTES

- PROVIDE 3/4" O. (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT INFORMATION ON MECHANICAL PLANS.
- PROVIDE 20A BREAKER WITH 2#12 & 1#12GND-3/4" TO NEAREST PANEL BELOW AT AVAILABLE SPARE CIRCUIT.

EQUIPMENT CONNECTION SCHEDULE BUILDING - E										
ITEM NO.	V-Ø	MODULE #1 MCA (HP)	MODULE #1 MOCP	MODULE #1 WIRE SIZE	MODULE #2 MCA	MODULE #2 MOCP	MODULE #2 WIRE SIZE	MODULE #3 MCA	MODULE #3 MOCP	MODULE #3 WIRE SIZE
OU-E1	480-3	29.7	30AS/35AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E2	480-3	29.7	30AS/35AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E3	480-3	29.7	30AS/35AF	3#8 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C
OU-E4	480-3	23.4	60AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4"C

EQUIPMENT CONNECTION SCHEDULE BUILDING - E (FAN COIL)			
ITEM NO.	V-Ø	MCA (HP)	WIRE SIZE
FC-E1	208-1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E2	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E3	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E4	208-1	2.8	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E5	208-1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E6	208-1	2.8	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E7	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E8	208-1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E9	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E10	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E11	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E12	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E13	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E14	208-1	2.8	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E15	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E16	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E17	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E18	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E19	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E20	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E21	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E22	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E23	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E24	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E25	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E26	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E27	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E28	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E29	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E30	208-1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E31	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E32	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E33	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E34	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E35	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E36	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E37	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E38	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E39	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E40	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E41	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E42	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E43	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E44	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E45	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E46	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E47	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E48	208-1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E49	208-1	3.65	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E50	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E51	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E52	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E53	208-1	2.8	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E54	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E55	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E56	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E57	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E58	208-1	1.9	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E59	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C
FC-E60	208-1	2.93	30AS/15AF 2#12 & 1#12 GND - 3/4"C



BUILDING E REMODEL ROOF PLAN 3/32" = 1'-0" 1

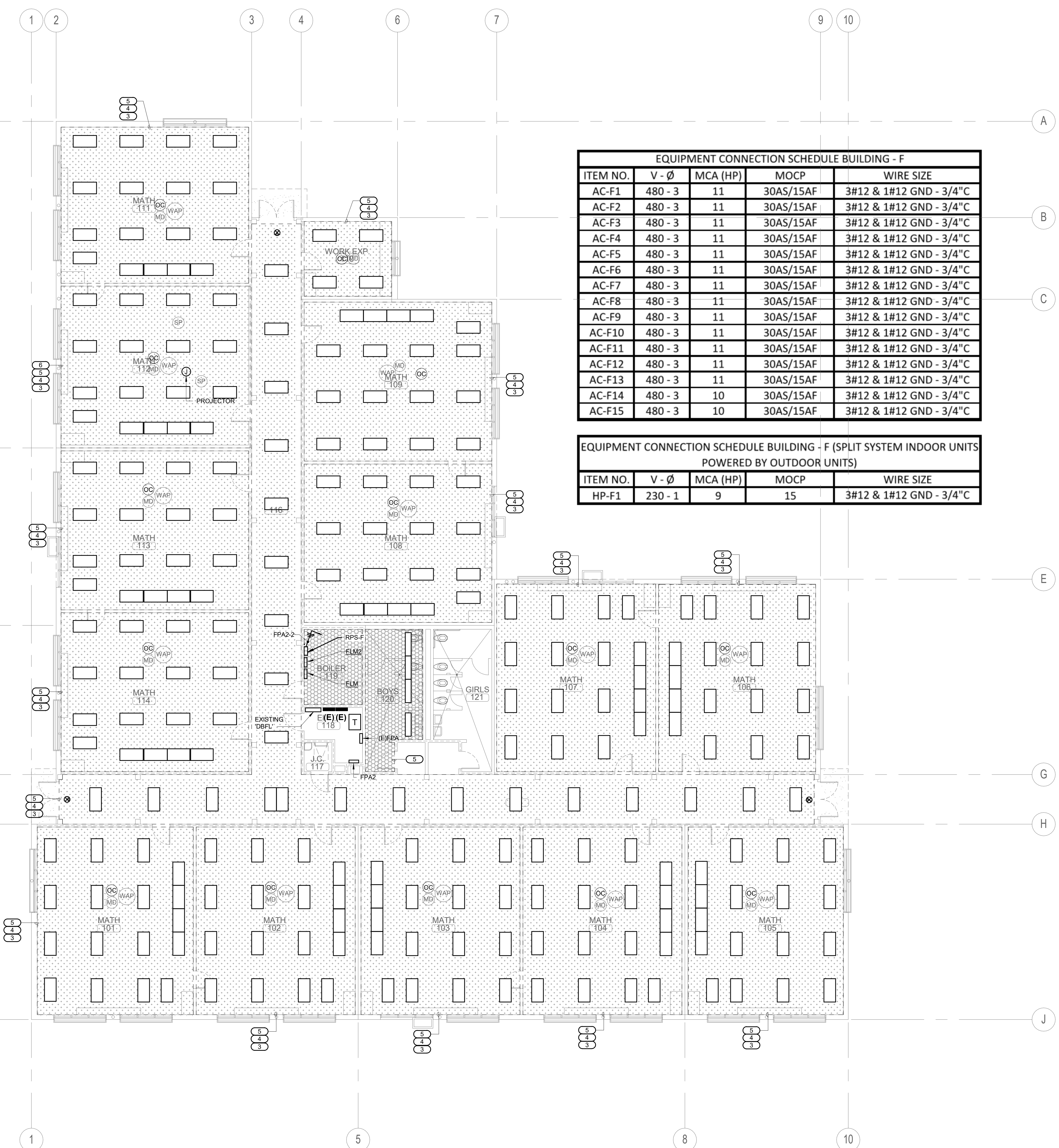
SITE KEY PLAN

KEYED NOTES

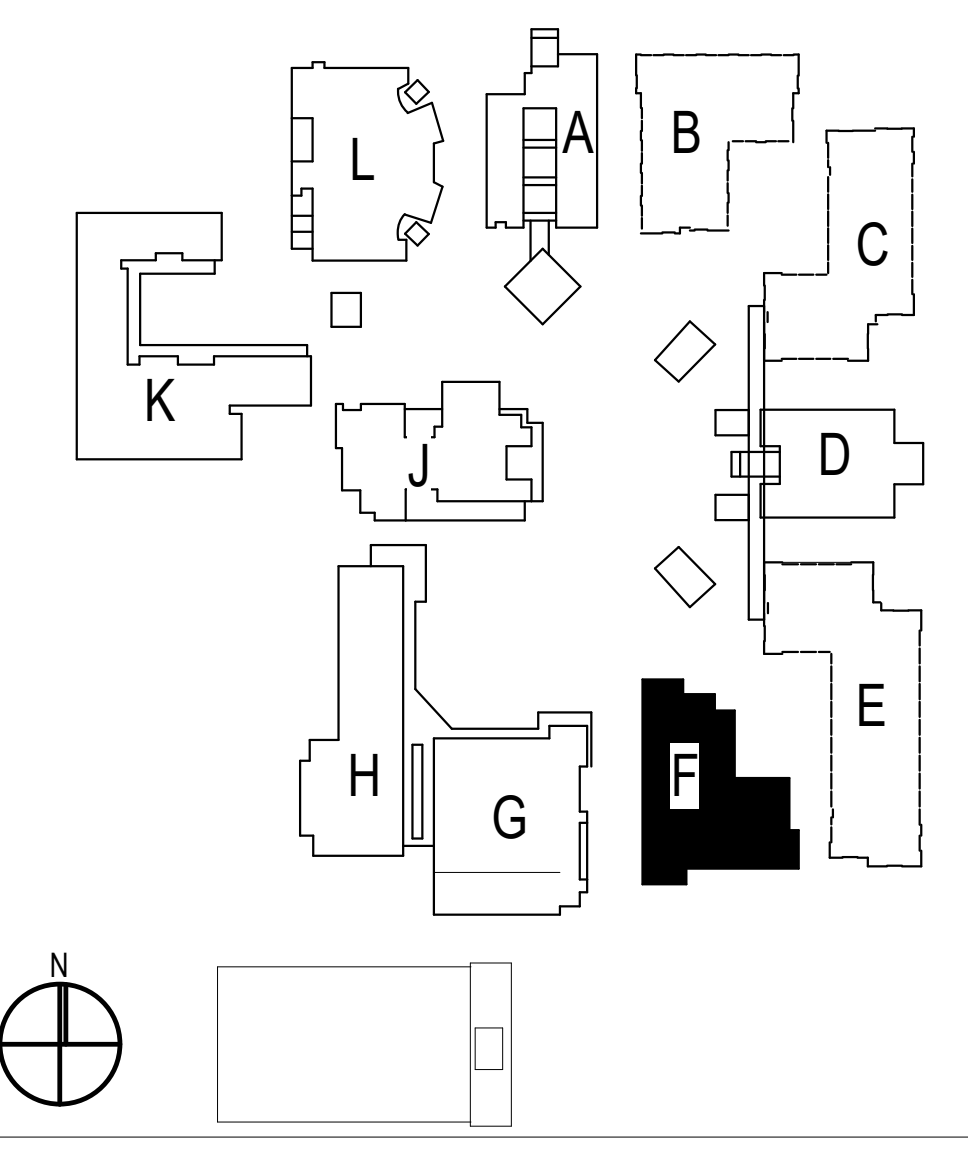
- PREPARE TO CONNECT SUB-PANEL EPA2 TO FPA. SAFE OFF, DISCONNECT CIRCUITS 38 & 42. CONNECT NEW SUB-PANEL FPA2 TO SPARE CIRCUITS AND REMOVE EXISTING CIRCUITS 38 & 42 TO NEW PANEL.
- CONTRACTOR TO INTERCEPT AND EXTEND EXISTING CIRCUIT FEEDING THE EXISTING FIRE ALARM PANEL AND REUSE CIRCUIT TO FEED THE NEW FIRE ALARM PANEL. REFER TO FIRE ALARM PLANS FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY FINAL LOCATION PRIOR TO ROUGH-IN.
- TECHNOLOGY LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING.
 - REMOVE WAP AND/OR MOTION DETECTOR FROM ACOUSTICAL TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON NEW ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED CEILING AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON NEW ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING FIXTURES/EXIT SIGNS AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING.
 - REMOVE LIGHT FIXTURES AND SALVAGE FOR FUTURE RE-INSTALLATION.
 - REMOVE POWER TO FIXTURES BACK TO JUNCTION BOX FEEDING AREA.
 - RE-INSTALL FIXTURES BACK ON NEW ACOUSTICAL CEILING. LAYOUT SHALL REMAIN THE SAME AS EXISTING PRIOR TO ACOUSTICAL CEILING DEMOLITION.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
 - PROJECTOR AFFECTED DURING REMOVAL/INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE PROJECTOR FROM TILE. CAP CONDUCTORS INSIDE 4S BOX FOR HARD WIRED PROJECTORS. REMOVE RECEPTACLE FROM TILE FOR NON HARD WIRED PROJECTORS. CAP CONDUCTORS INSIDE 4S BOX.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES.
 - RE-INSTALL PROJECTOR ALONG WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.

EQUIPMENT CONNECTION SCHEDULE BUILDING - F				
ITEM NO.	V - Ø	MCA (HP)	MOCP	WIRE SIZE
AC-F1	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F2	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F3	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F4	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F5	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F6	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F7	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F8	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F9	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F10	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F11	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F12	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F13	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F14	480 - 3	10	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F15	480 - 3	10	30AS/15AF	3#12 & 1#12 GND - 3/4"C

EQUIPMENT CONNECTION SCHEDULE BUILDING - F (SPLIT SYSTEM INDOOR UNITS POWERED BY OUTDOOR UNITS)				
ITEM NO.	V - Ø	MCA (HP)	MOCP	WIRE SIZE
HP-F1	230 - 1	9	15	3#12 & 1#12 GND - 3/4"C



REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN:	Author	CHECKED:	Checker
DATE:	Issue Date	SCALE:	As indicated
PROJECT NUMBER:	Project Number		
BUILDING F REMODEL FLOOR PLAN			
DRAWING NUMBER:	EF2.1		

1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN:	Author	CHECKED:	Checker
DATE:	Issue Date	SCALE:	1/8" = 1'-0"
PROJECT NUMBER:	Project Number		

**BUILDING F
REMODEL ROOF
PLAN**

DRAWING NUMBER: **EF3.1**

GENERAL NOTES

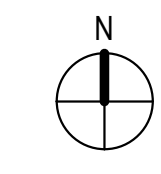
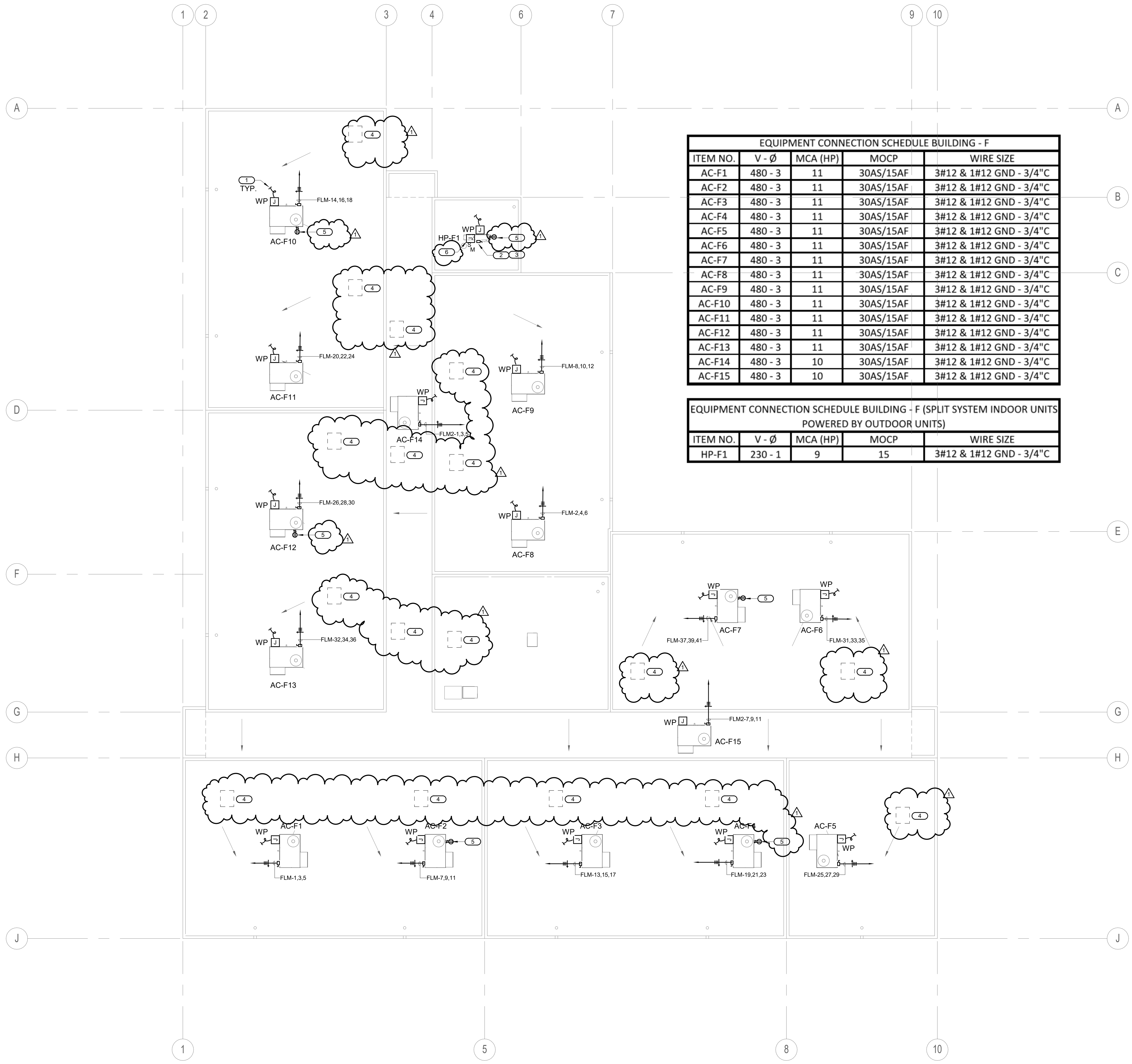
- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 58 RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

KEYED NOTES

- PROVIDE 3/4" O.D. (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- INTERCONNECT WITH ASSOCIATED INDOOR UNIT. REFER TO MECHANICAL WIRING DIAGRAMS.
- CONTRACTOR TO PROVIDE A 200V, 1 PHASE, 15A BREAKER FROM ANY EXISTING 120/208V EXISTING PANELS WITH SPARE SPACE TO FEED "HP-F1" LOCATED ON ROOF. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING EQUIPMENT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.
- PROVIDE 20A BREAKER WITH 2#12 & 1#12GND-3/4"C TO NEAREST PANEL BELOW AT AVAILABLE SPARE CIRCUIT.
- PROVIDE POWER TO CONDENSATE PUMP. CONTRACTOR TO USE POWER FROM AC DISCONNECT. PROVIDE NEUTRAL. 2#12 & 1# 12GND-3/4"C

EQUIPMENT CONNECTION SCHEDULE BUILDING - F				
ITEM NO.	V - Ø	MCA (HP)	MOCP	WIRE SIZE
AC-F1	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F2	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F3	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F4	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F5	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F6	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F7	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F8	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F9	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F10	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F11	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F12	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F13	480 - 3	11	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F14	480 - 3	10	30AS/15AF	3#12 & 1#12 GND - 3/4"C
AC-F15	480 - 3	10	30AS/15AF	3#12 & 1#12 GND - 3/4"C

EQUIPMENT CONNECTION SCHEDULE BUILDING - F (SPLIT SYSTEM INDOOR UNITS POWERED BY OUTDOOR UNITS)				
ITEM NO.	V - Ø	MCA (HP)	MOCP	WIRE SIZE
HP-F1	230 - 1	9	15	3#12 & 1#12 GND - 3/4"C



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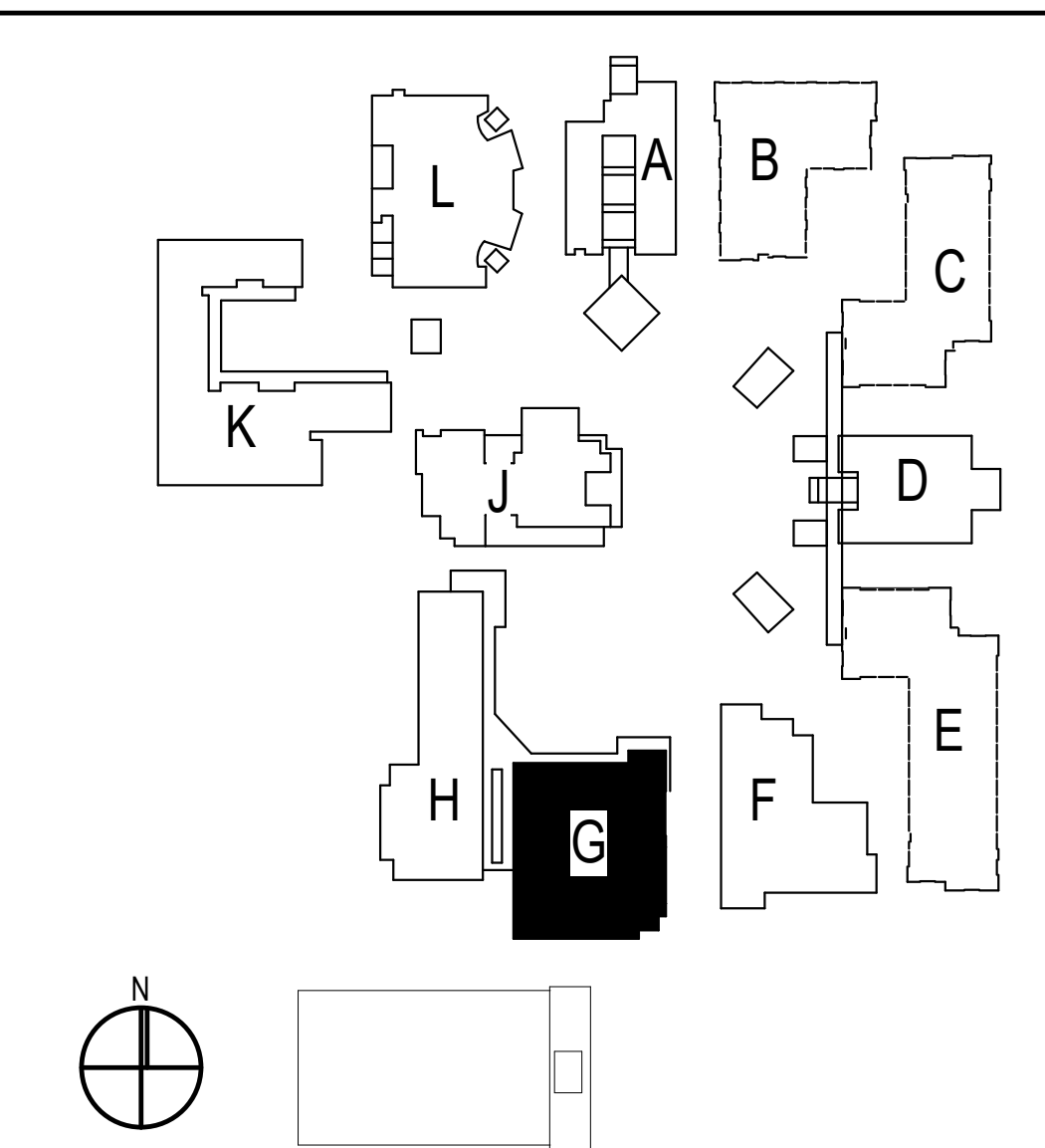
GENERAL NOTES

- REMOVE AND RE-INSTALL POWER AND SIGNAL (NETWORK CABLE AT THE REPLACEMENT EMS PANEL (TYP TO ALL BUILDINGS) EXTEND CIRCUITS AS REQUIRED.

KEYED NOTES

- CONTRACTOR TO INTERCEPT AND EXTEND EXISTING CIRCUIT FEEDING THE EXISTING FIRE ALARM PANEL AND REUSE CIRCUIT TO FEED THE NEW FIRE ALARM PANEL. REFER TO FIRE ALARM PLAN FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY FINAL LOCATION PRIOR TO REMOVAL.
- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING EQUIPMENT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.

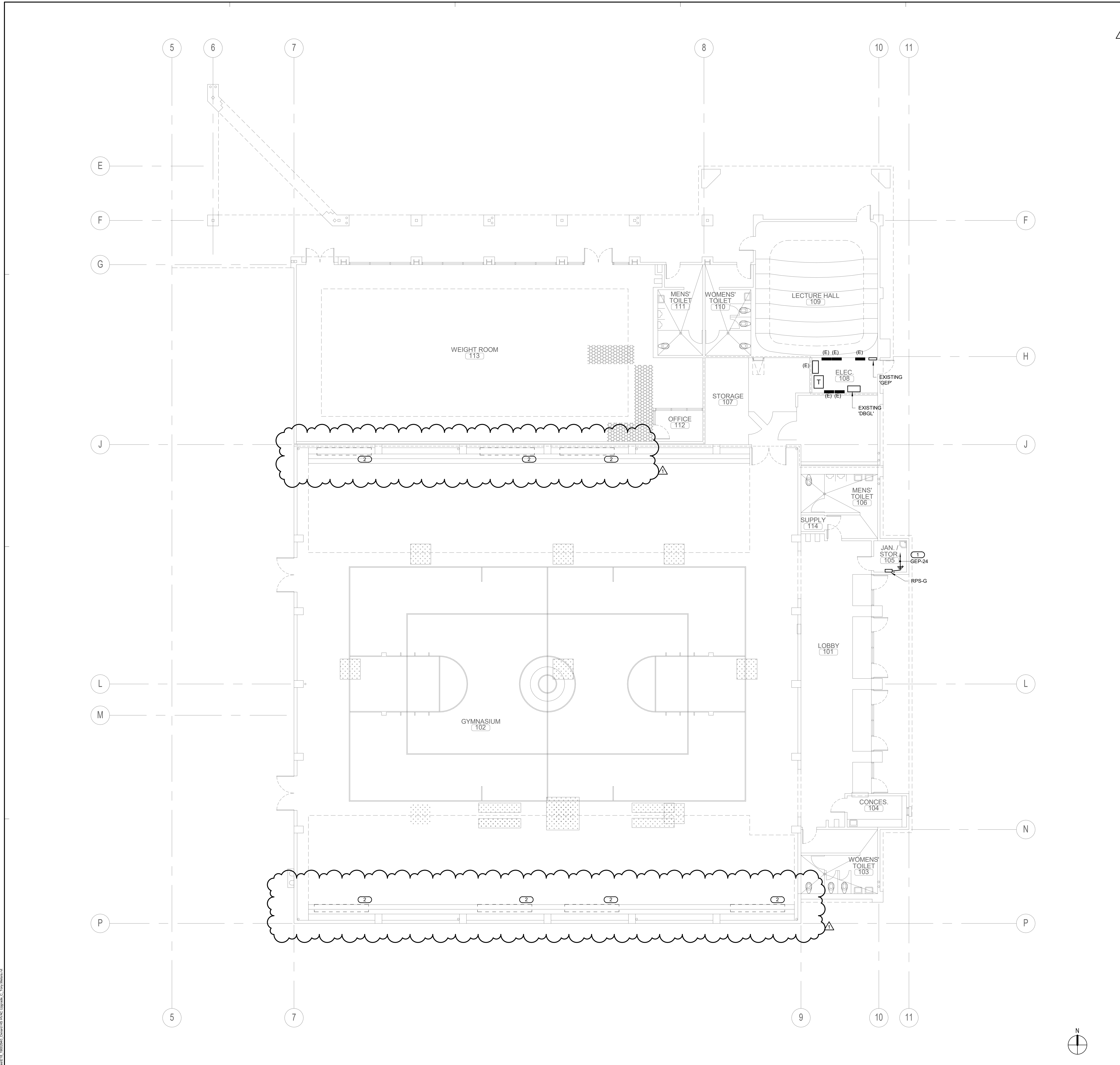
REMOVAL & RE-INSTALLATION OF ACCOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN: Author		CHECKED: Checker	
DATE: Issue Date		SCALE: As indicated	
PROJECT NUMBER:		Project Number	

**BUILDING G
REMODEL FLOOR
PLAN**

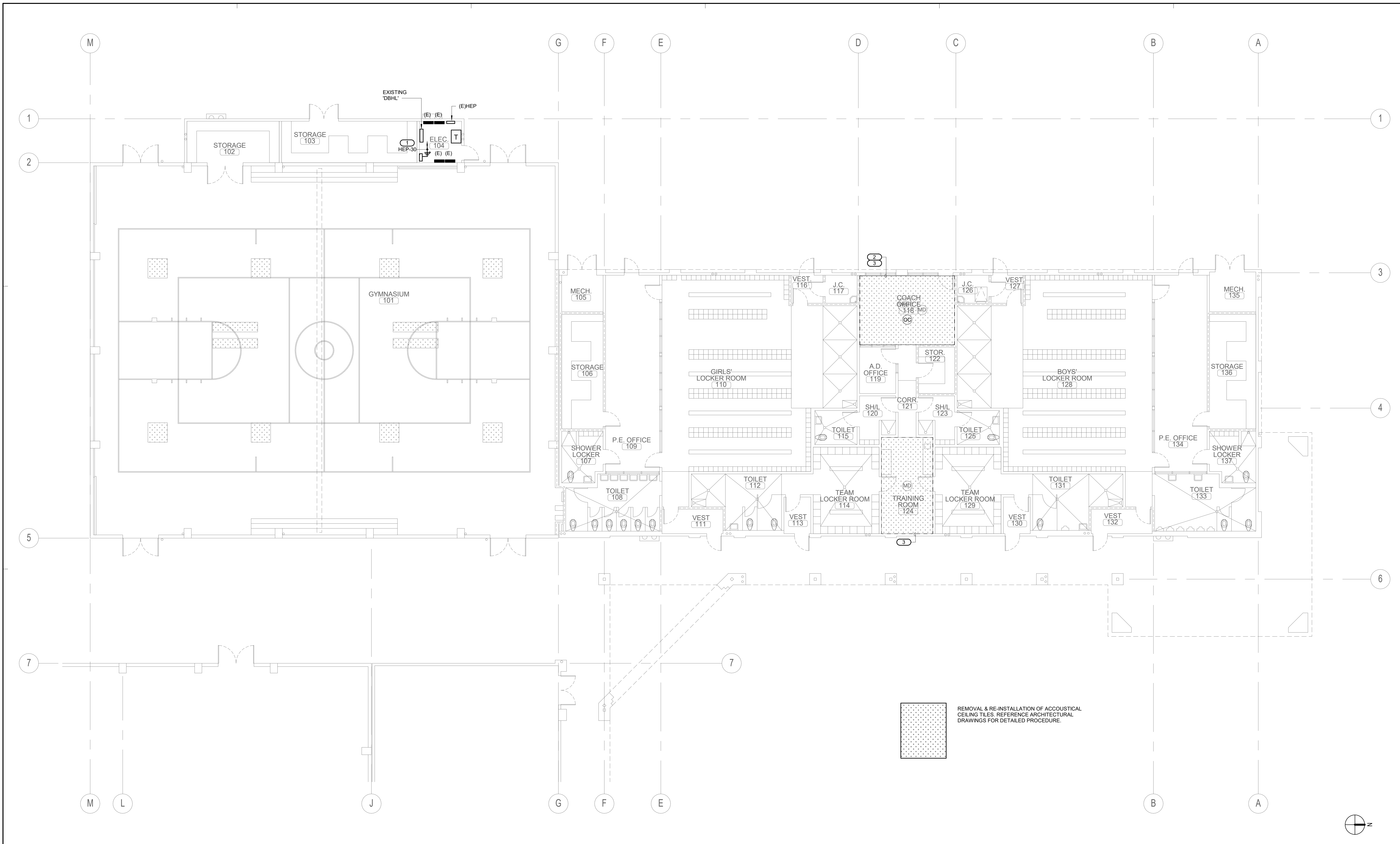
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BUILDING G REMODEL FLOOR PLAN 1/8" = 1'-0" 1

SITE KEY PLAN

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 Michael Miller
 08/25/20 10:47 AM



BUILDING H REMODEL FLOOR PLAN 1/8" = 1'-0" 1

EQUIPMENT CONNECTION SCHEDULE BUILDING - H					POWER EXHAUST				
ITEM NO.	V - Ø	MCA (HP)	MOCP	WIRE SIZE	V - Ø	MCA (HP)	MOCP	WIRE SIZE	
AC-H1	480 - 3	51	60AS/60AF	3#4 & 1#10 GND - 1 1/4"C	480 - 3	8	30AS/15AF	3#12 & 1#12 GND - 3/4"C	
AC-H2	480 - 3	51	60AS/60AF	3#4 & 1#10 GND - 1 1/4"C	480 - 3	8	30AS/15AF	3#12 & 1#12 GND - 3/4"C	

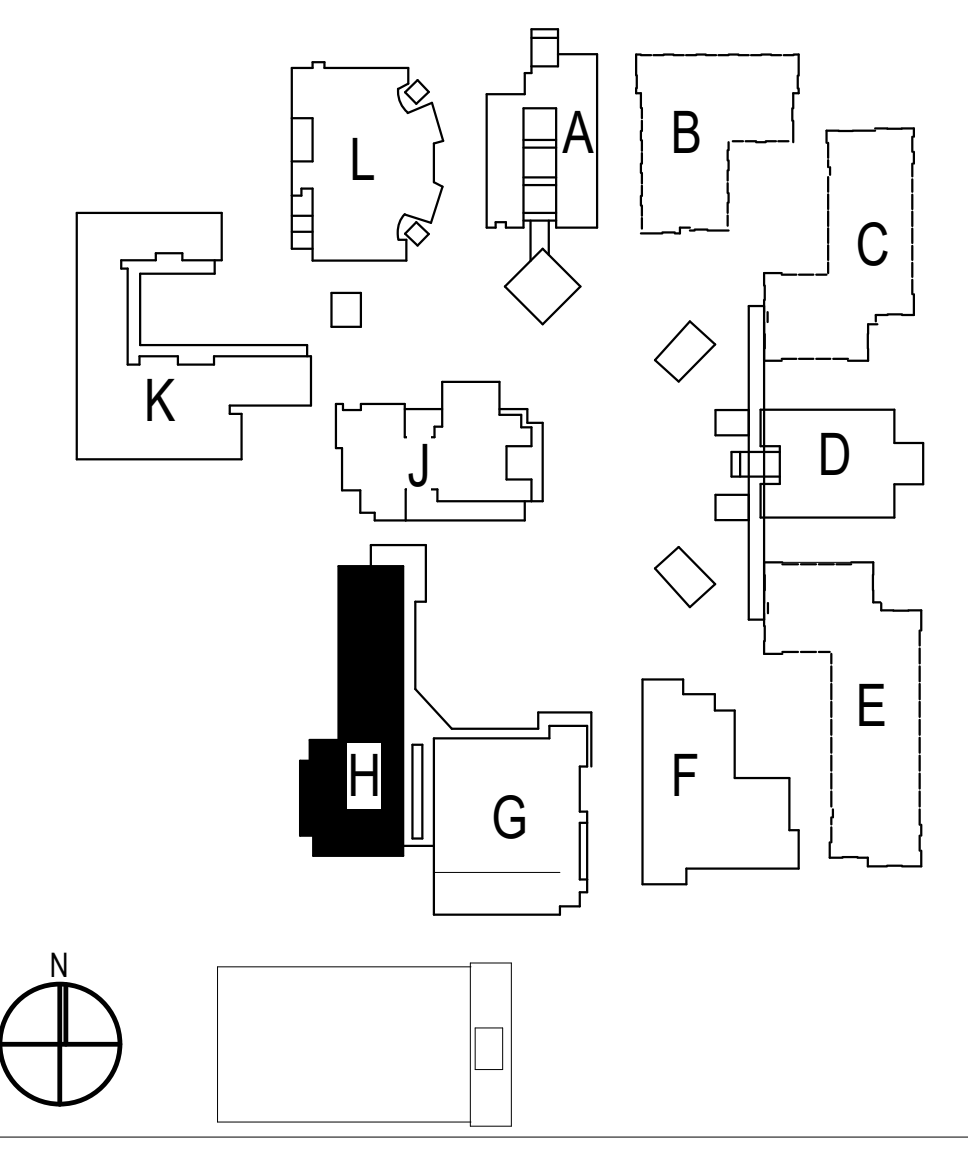
EQUIPMENT CONNECTION SCHEDULE BUILDING - H (DOAS UNITS)				
ITEM NO.	V - Ø	MCA (HP)	MOCP	WIRE SIZE
DOAS-H1	480 - 3	19	30AS/25AF	3#12 & 1#12 GND - 3/4"C
DOAS-H2	480 - 3	16	30AS/20AF	3#12 & 1#12 GND - 3/4"C
DOAS-H3	480 - 3	19	30AS/25AF	3#12 & 1#12 GND - 3/4"C

KEYED NOTES

- CONTRACTOR TO INTERCEPT AND EXTEND EXISTING CIRCUIT FEEDING THE EXISTING FIRE ALARM PANEL AND REUSE CIRCUIT TO FEED THE NEW FIRE ALARM PANEL. REFER TO FIRE ALARM PANEL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY FINAL LOCATION PRIOR TO INSTALLATION.
- TECHNOLOGY LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING:
 - REMOVE WAP AND/OR MOTION DETECTOR FROM ACOUSTICAL TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 45 BOX, & 45 RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON NEW ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING:
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 45 BOX, & 45 RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED CEILING AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON NEW ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.

GENERAL NOTES

- REMOVE AND RE-INSTALL POWER AND SIGNAL (NETWORK CABLE AT THE REPLACEMENT EMS PANEL, (TYP TO ALL BUILDINGS) EXTEND CIRCUITS AS REQUIRED.



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1

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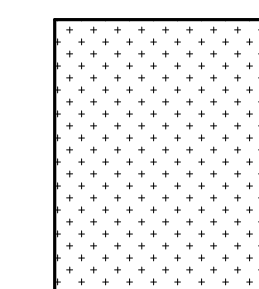
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Issue Date	As indicated

**BUILDING H
REMODEL FLOOR
PLAN**

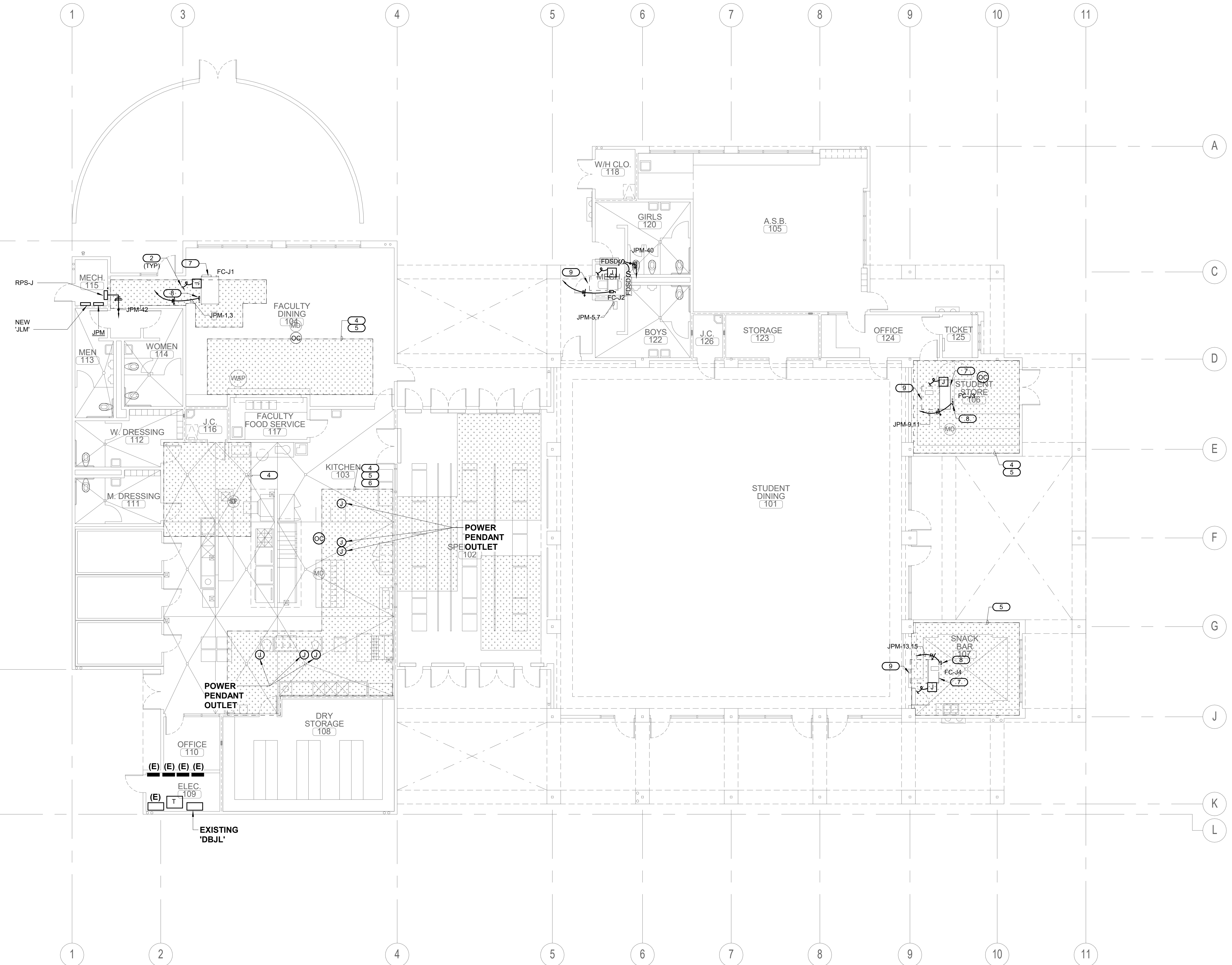
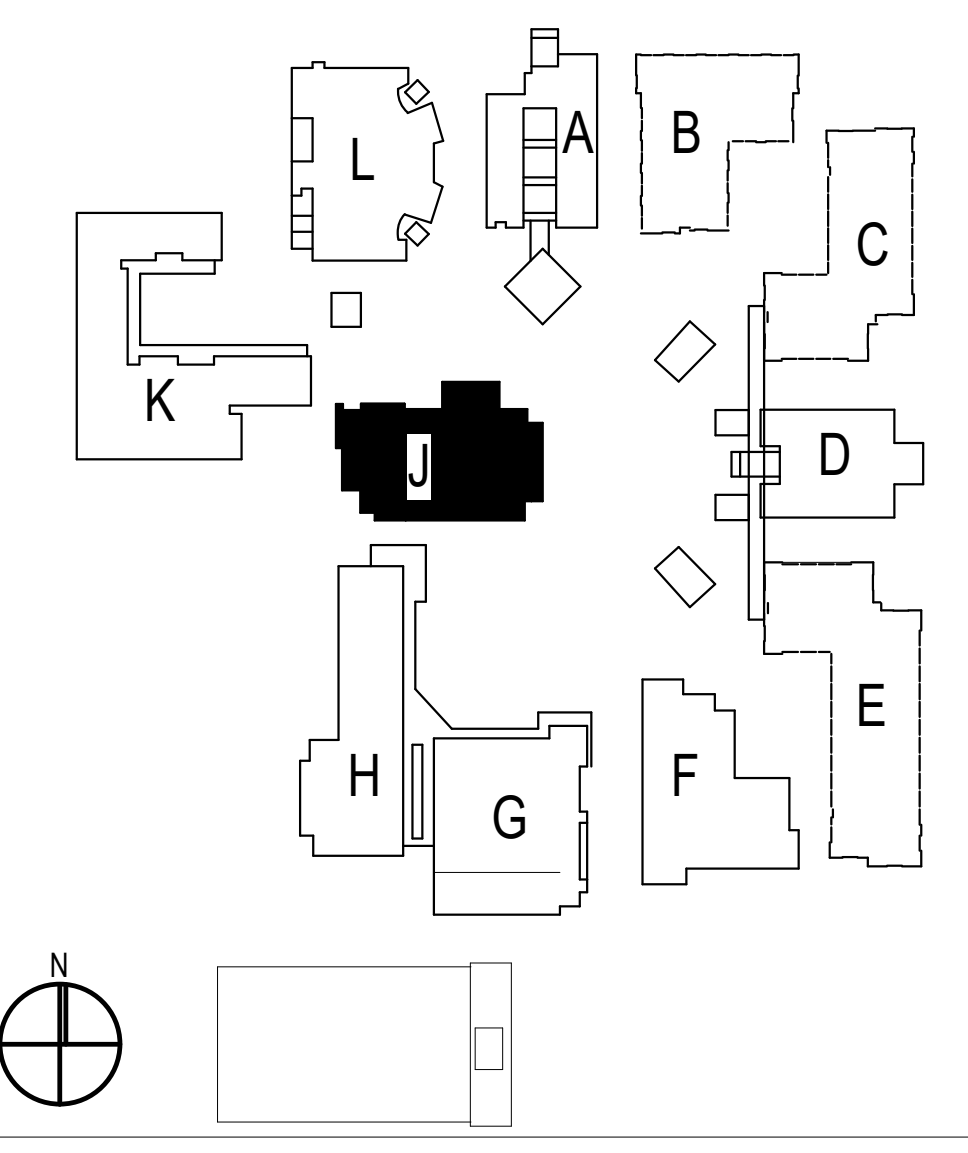
DRAWING NUMBER: **EH2.2**

KEYED NOTES

- NOT USED.
- PROVIDE 34°C O (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- NOT USED.
- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING:
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING:
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- POWER PENDANT OUTLET AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING:
 - REMOVE OUTLET WITH STRAIN RELIEF CORD FROM TILE. CAP CONDUCTORS INSIDE 4S BOX. IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES.
 - RE-INSTALL POWER OUTLET WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF OUTLET SHALL BE PERFORMED AND OUTLET SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR ELECTRICAL CONDUIT PROVIDE NEW CONDUCTORS FROM NEW JUNCTION BOXES AND SPLICE CONDUCTORS TO BE EXTENDED. MATCH EXISTING CONDUCTORS TO BE SPLICED.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
 - FOR TECHNOLOGY/LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.
- INSTALL DISCONNECT ON OR NEXT TO MECHANICAL UNIT. DISCONNECT SHALL HAVE THREE FEET CLEARANCE IN FRONT FOR SERVICE CLEARANCE.
- PROVIDE CLEARANCE FOR MECHANICAL UNIT. ANY CONDUIT SHALL BE RE-ROUTED ACCORDINGLY.



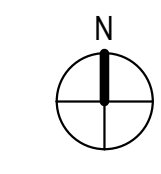
REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



EQUIPMENT CONNECTION SCHEDULE BUILDING - J					POWER EXHAUST				
ITEM NO.	V - Ø	MCA (HP)	MOC	WIRE SIZE	V - Ø	MCA (HP)	MOC	WIRE SIZE	
AC-J1	480 - 3	25	30AS/30AF	3#10 & 1#10 GND - 3/4" C	480 - 3	5.6	30AS/15AF	3#12 & 1#12 GND - 3/4" C	
AC-J2	480 - 3	25	30AS/30AF	3#10 & 1#10 GND - 3/4" C	480 - 3	5.6	30AS/15AF	3#12 & 1#12 GND - 3/4" C	
AC-J3	480 - 3	20	30AS/25AF	3#10 & 1#10 GND - 3/4" C	480 - 3	2.4	30AS/15AF	3#12 & 1#12 GND - 3/4" C	
AC-J4	480 - 3	26	30AS/30AF	3#10 & 1#10 GND - 3/4" C	480 - 3	8.1	30AS/15AF	3#12 & 1#12 GND - 3/4" C	
AC-J5	480 - 3	26	30AS/30AF	3#10 & 1#10 GND - 3/4" C	480 - 3	8.1	30AS/15AF	3#12 & 1#12 GND - 3/4" C	

EQUIPMENT CONNECTION SCHEDULE BUILDING - J				
ITEM NO.	V - Ø	MODULE #1 MCA (HP)	MODULE #1 MOC	MODULE #1 WIRE SIZE
OU-J1	480 - 3	23.4	30AS/30AF	3#10 & 1#10 GND - 3/4" C

EQUIPMENT CONNECTION SCHEDULE BUILDING - J (FAN COIL)				
ITEM NO.	V - Ø	MCA (HP)	MOC	WIRE SIZE
FC-J1	208 - 1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-J2	208 - 1	6.1	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-J3	208 - 1	2.8	30AS/15AF	2#12 & 1#12 GND - 3/4" C
FC-J4	208 - 1	1.9	30AS/15AF	2#12 & 1#12 GND - 3/4" C



NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1

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KEYED NOTES

- NOT USED.
- PROVIDE 3/4" O.S. TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONNECTION SCHEDULE FOR IDENTIFICATION OF MECHANICAL PLANS.
- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR & PROJECTOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROJECTOR AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE PROJECTOR FROM TILE. CAP CONDUCTORS INSIDE 4S BOX FOR HARD WIRED PROJECTORS. REMOVE RECEPTACLE FROM TILE FOR NON HARD WIRED PROJECTORS. CAP CONDUCTORS INSIDE 4S BOX.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES.
 - RE-INSTALL PROJECTOR ALONG WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF PROJECTOR SHALL BE PERFORMED AND SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR ELECTRICAL CONDUIT PROVIDE NEW CONDUCTORS FROM NEW JUNCTION BOXES AND SPLICE CONDUCTORS TO BE EXTENDED. MATCH EXISTING CONDUCTORS TO BE SPLICED.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
 - FOR TECHNOLOGY/LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.
- INSTALL DISCONNECT ON OR NEXT TO MECHANICAL UNIT. DISCONNECT SHALL HAVE THREE FEET CLEARANCE IN FRONT FOR SERVICE CLEARANCE.

EQUIPMENT CONNECTION SCHEDULE BUILDING - K					POWER EXHAUST				
ITEM NO.	V-Ø	MCA (HP)	MOCAP	WIRE SIZE	V-Ø	MCA (HP)	MOCAP	WIRE SIZE	
AC-K1	480-3	13	30AS/15AF	3#10 1#10 GND - 3/4"	480-3	3.2	30AS/15AF	3#12 1#12 GND - 3/4"	
AC-K4	480-3	10	30AS/15AF	3#10 1#10 GND - 3/4"					
AC-K5	480-3	20	30AS/25AF	3#10 1#10 GND - 3/4"	480-3	3.2	30AS/15AF	3#12 1#12 GND - 3/4"	
AC-K6	480-3	11	30AS/15AF	3#10 1#10 GND - 3/4"					
AC-K7	480-3	13	30AS/15AF	3#10 1#10 GND - 3/4"	480-3	1.8	30AS/15AF	3#12 1#12 GND - 3/4"	

EQUIPMENT CONNECTION SCHEDULE BUILDING - K										
ITEM NO.	V-Ø	MODULE #1 MCA (HP)	MODULE #1 MOCAP	MODULE #1 WIRE SIZE	MODULE #2 MCA (HP)	MODULE #2 MOCAP	MODULE #2 WIRE SIZE	MODULE #3 MCA (HP)	MODULE #3 MOCAP	MODULE #3 WIRE SIZE
OU-K1	480-3	23.4	30AS/30AF	3#10 1#10 GND - 3/4"	23.4	30AS/30AF	3#10 1#10 GND - 3/4"	23.4	30AS/30AF	3#10 1#10 GND - 3/4"

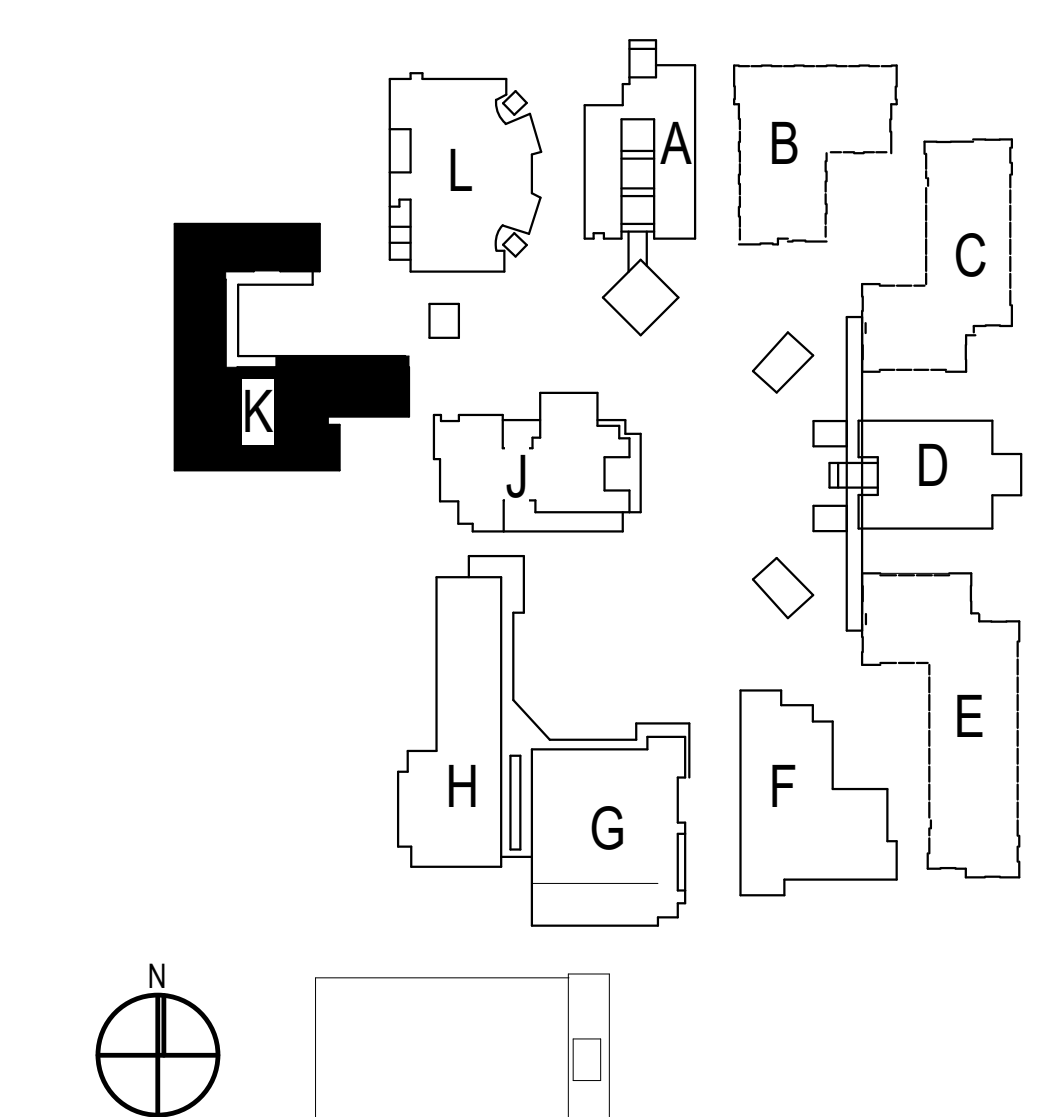
EQUIPMENT CONNECTION SCHEDULE BUILDING - K (SPLIT SYSTEM INDOOR UNITS POWERED BY OUTDOOR UNITS)				
ITEM NO.	V-Ø	MCA (HP)	MOCAP	WIRE SIZE
HP-K1	230-1	9	15	3#10 & 1#10 GND - 3/4"

EQUIPMENT CONNECTION SCHEDULE BUILDING - K (DOAS UNITS)				
ITEM NO.	V-Ø	MCA (HP)	MOCAP	WIRE SIZE
DOAS-K1	480-3	36	60AS/45AF	3#6 & 1#10 GND - 1 1/4"
DOAS-K3	480-3	53	60AS/60AF	3#4 & 1#10 GND - 1 1/4"

EQUIPMENT CONNECTION SCHEDULE BUILDING - K (FAN COIL)				
ITEM NO.	V-Ø	MCA (HP)	MOCAP	WIRE SIZE
FC-K1	208-1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4"
FC-K2	208-1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4"
FC-K3	208-1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4"
FC-K4	208-1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4"
FC-K5	208-1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4"
FC-K6	208-1	5.7	30AS/15AF	2#12 & 1#12 GND - 3/4"

EQUIPMENT CONNECTION SCHEDULE BUILDING - N (SPLIT SYSTEM INDOOR)				
ITEM NO.	V-Ø	MCA (HP)	MOCAP	WIRE SIZE
HP-N1	230-1	18	25	3#10 & 1#10 GND - 3/4"

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



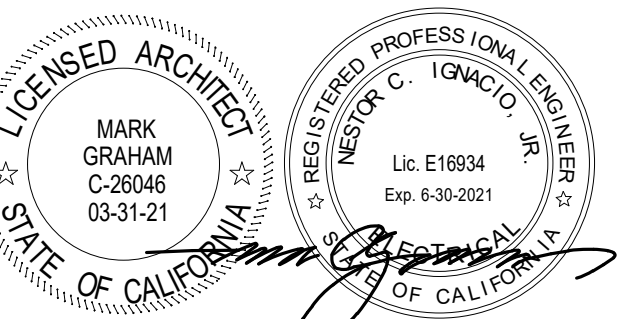
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**BUILDING K
REMODEL FLOOR
PLAN**

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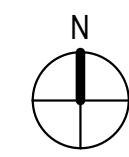
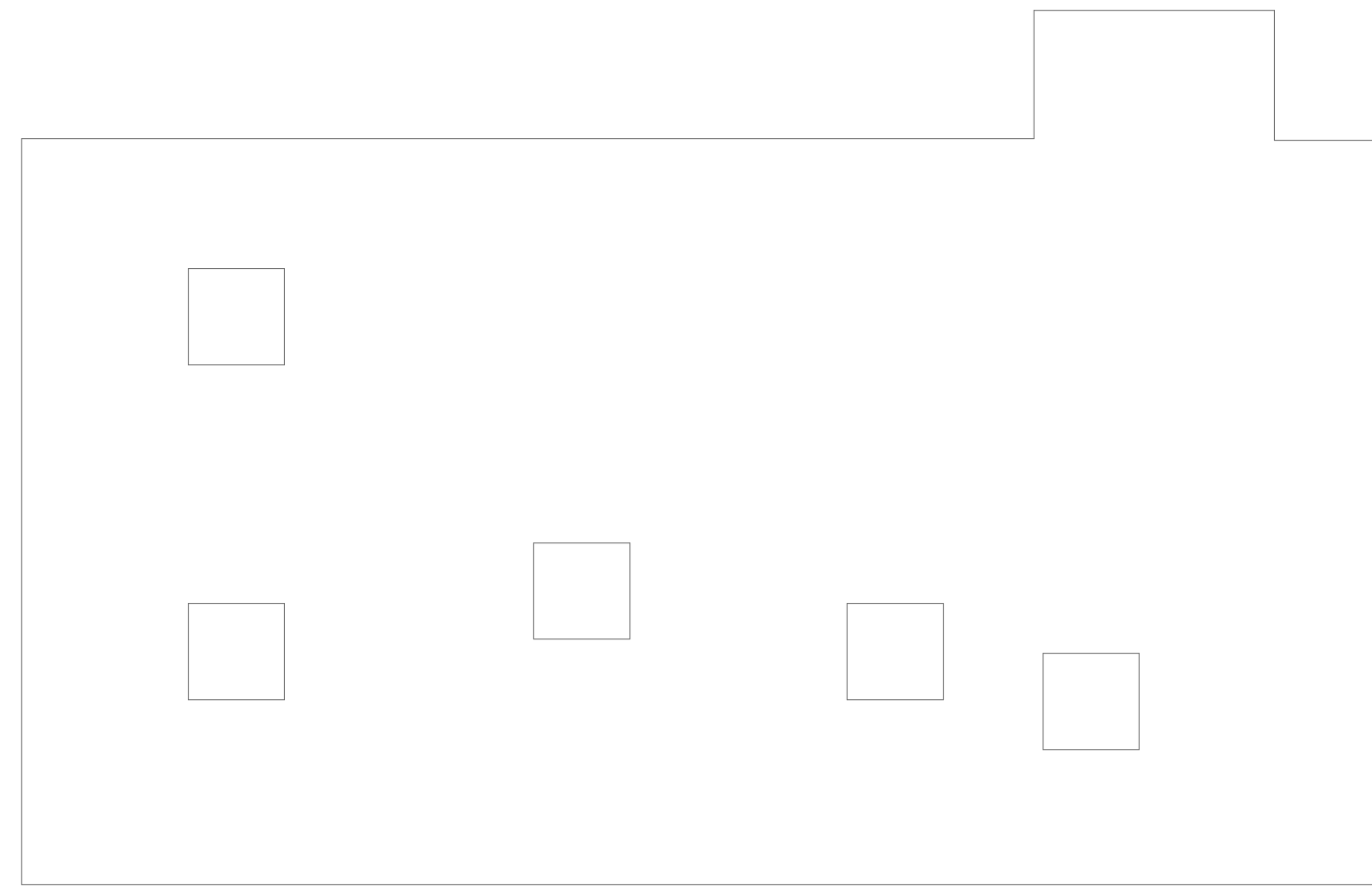
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GENERAL NOTES

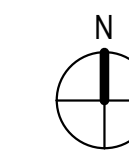
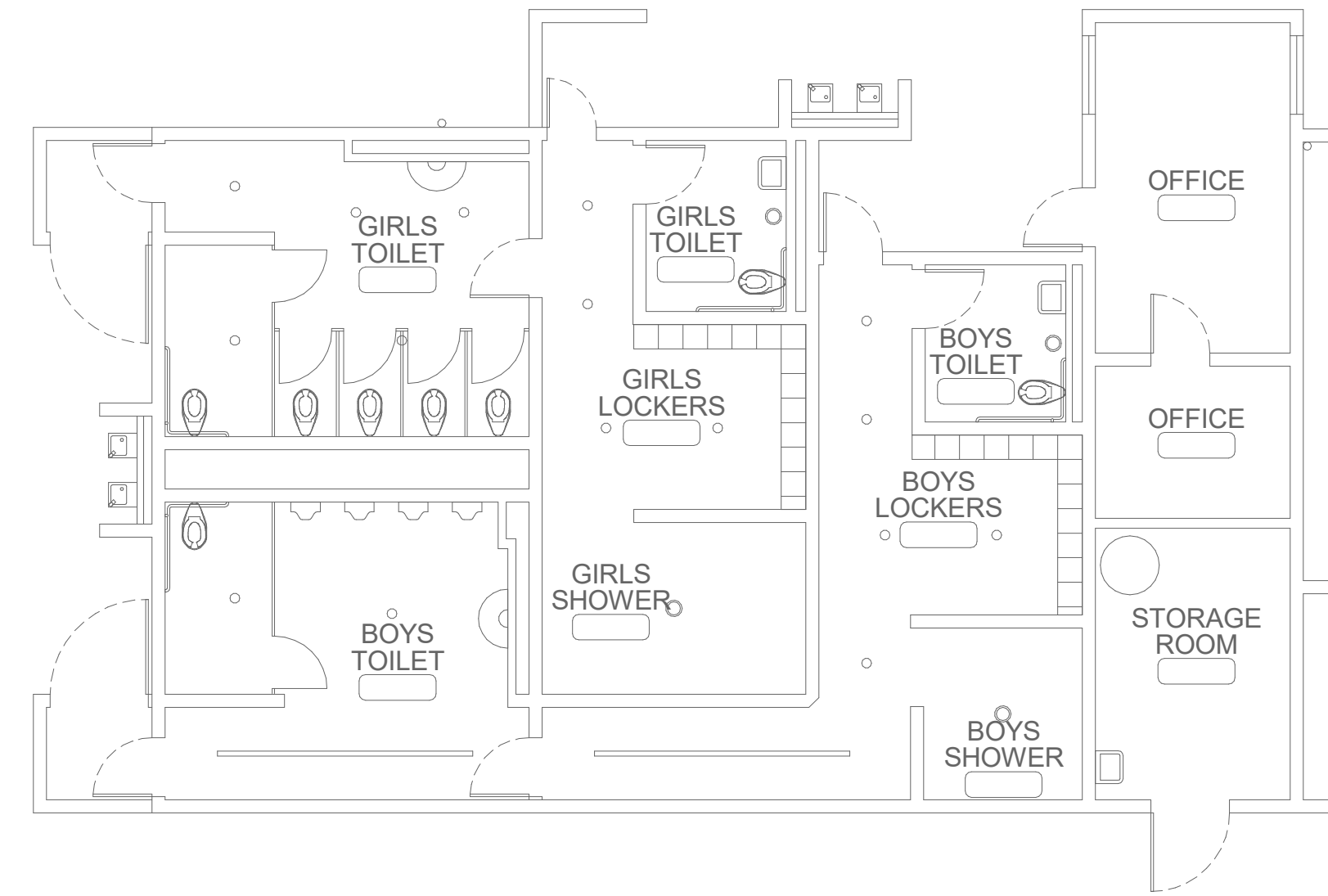
1. PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
2. ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
3. COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 5B RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRA-VIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

KEYED NOTES

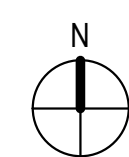
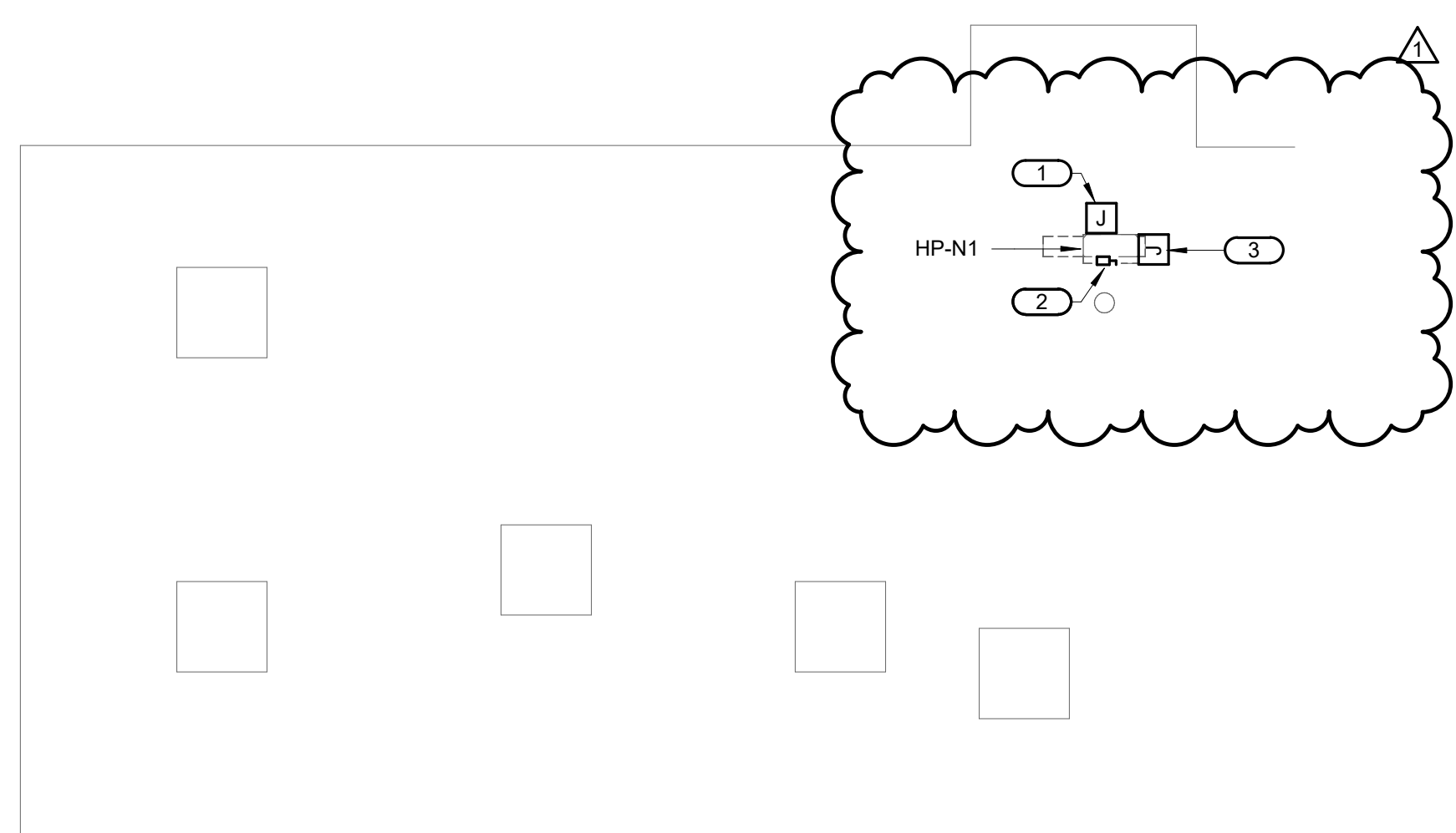
1. PROVIDE 3/4" O. (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
2. PROVIDE 30AF/25AF 2-POLE BREAKER WITH 2#10 & 1# 10GND-3/4" TO NEAREST PANEL BELOW AT AVAILABLE SPARE CIRCUIT.
3. PROVIDE POWER TO CONDENSATE PUMP. CONTRACTOR TO USE POWER FROM AC DISCONNECT. PROVIDE NEUTRAL. 2#12 & 1# 12GND-3/4"



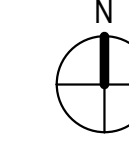
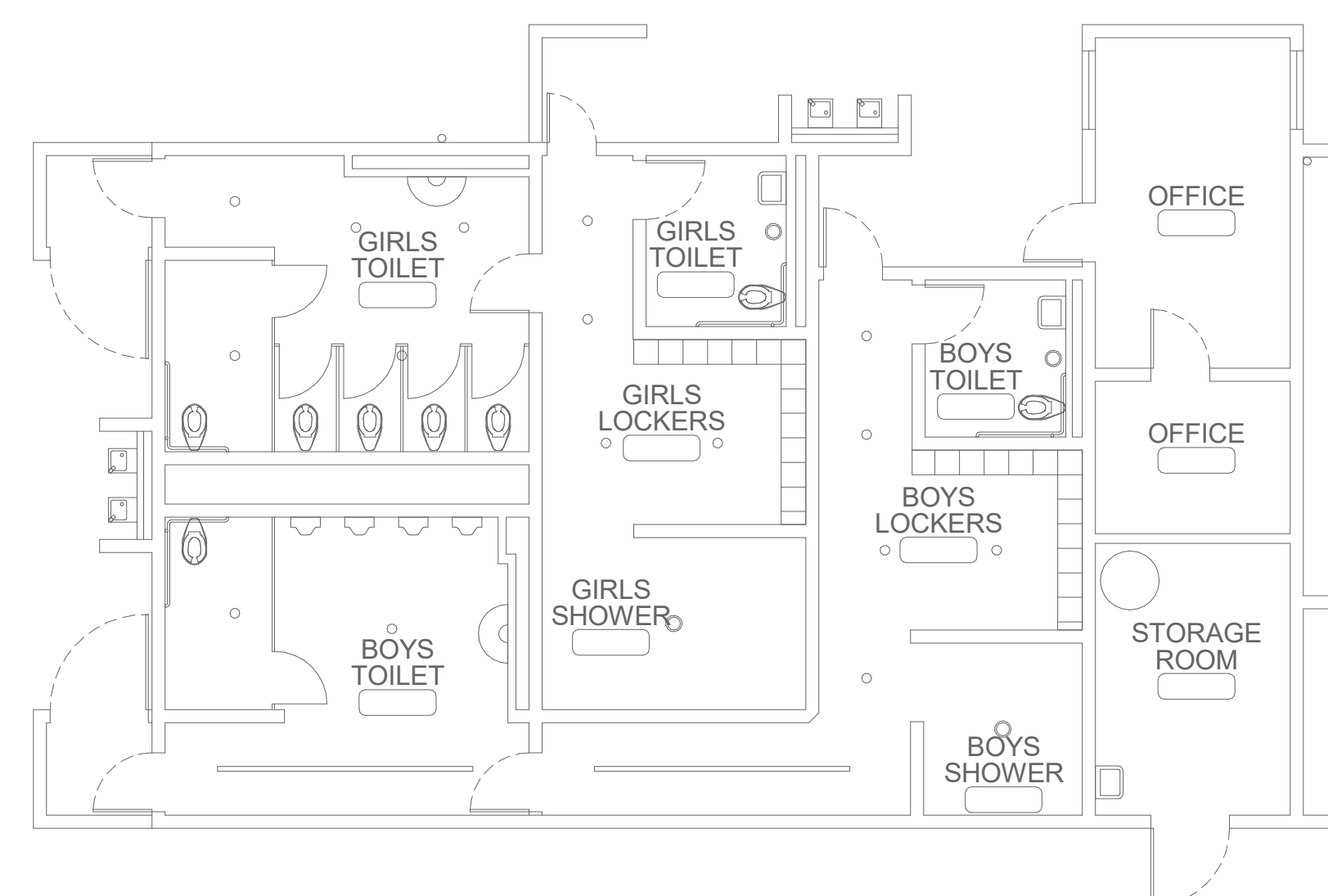
BUILDING N DEMOLITION ROOF PLAN 1/8" = 1'-0" 3



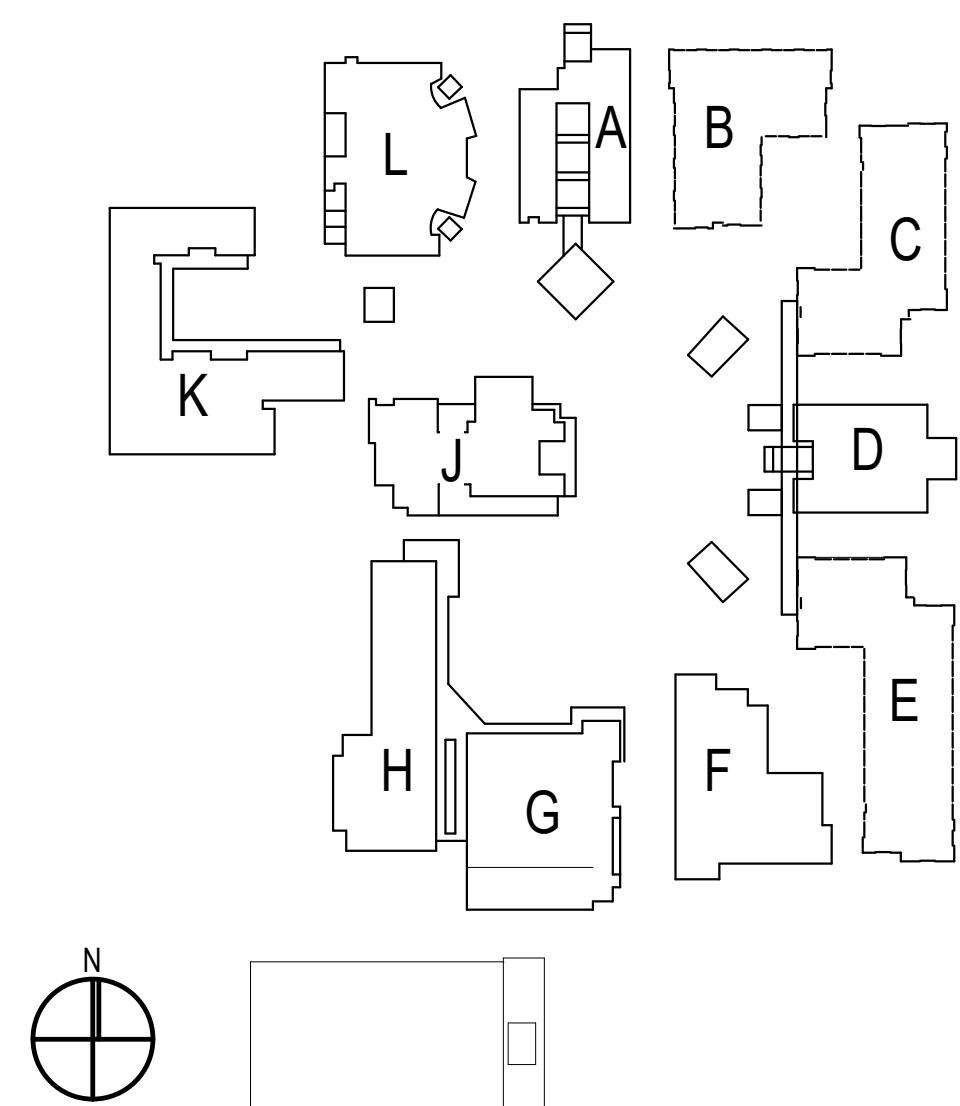
BUILDING N DEMOLITION FLOOR PLAN 1/8" = 1'-0" 1



BUILDING N REMODEL ROOF PLAN 1/8" = 1'-0" 4



BUILDING N REMODEL FLOOR PLAN 1/8" = 1'-0" 2



SITE KEY PLAN

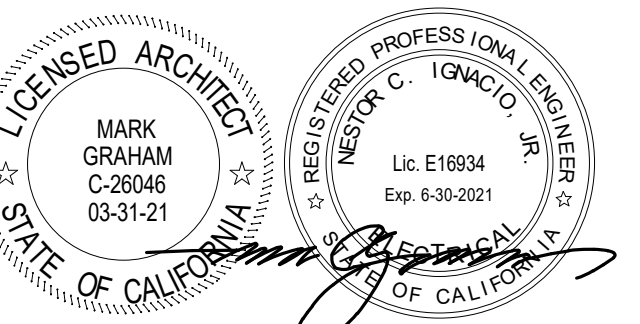
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NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN: Author		CHECKED: Checker	
DATE: Issue Date		SCALE: 1/8" = 1'-0"	
PROJECT NUMBER:		Project Number	

**BUILDING N
DEMOLITION AND
REMODEL PLANS**

DRAWING NUMBER: **EN2.1**

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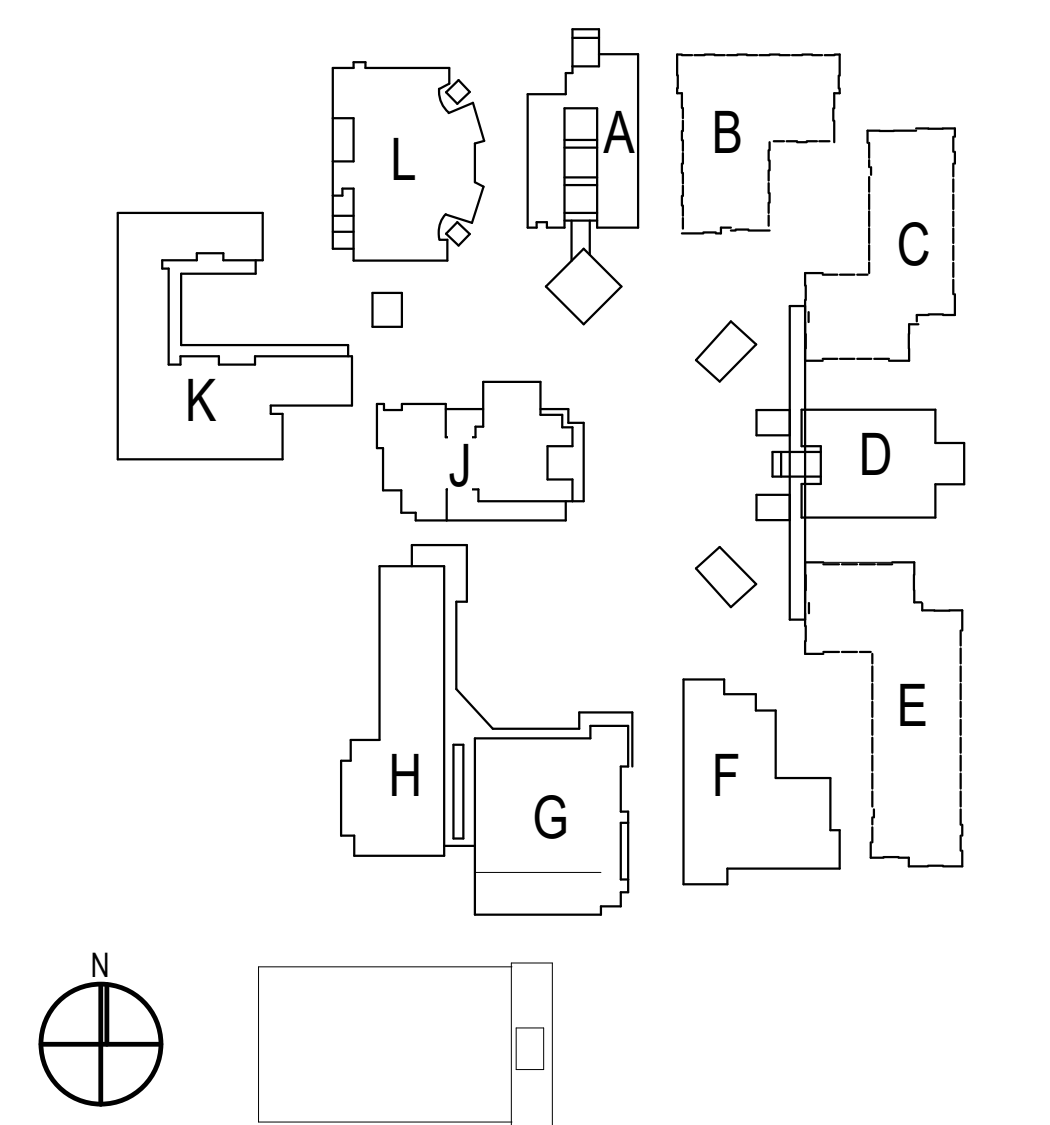
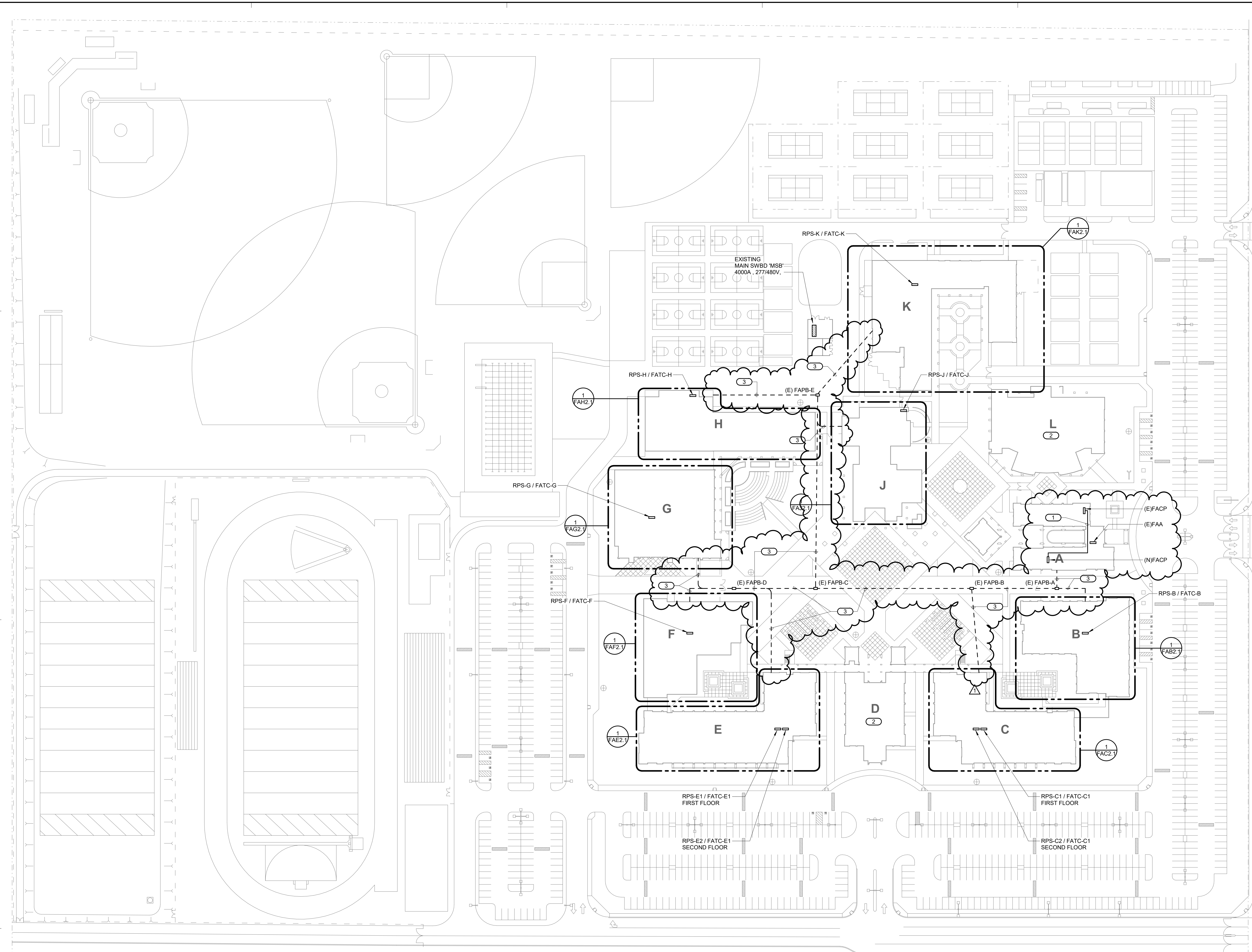
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KEYED NOTES

1. PROVIDE ALL THE REQUIRED MODULES/COMPONENTS AND PROGRAMMING FOR MONITORING/INTERCONNECTING (OR CROSS-TRIP) BETWEEN THE EXISTING AND THE NEW FIRE ALARM CONTROL PANELS.
2. BUILDING NOT PART OF THIS PERMIT.
3. EXISTING CONDUIT TO NEW FACP VIA FATC. PULL EXISTING FIRE ALARM WIRES/CABLES. REINSTALL THE EXISTING FA WIRES/CABLES INCLUDING THE NEW FA WIRES/CABLES.



1	08/25/20	Addendum 1	
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REVISIONS			
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PROJECT NUMBER:		Project Number	

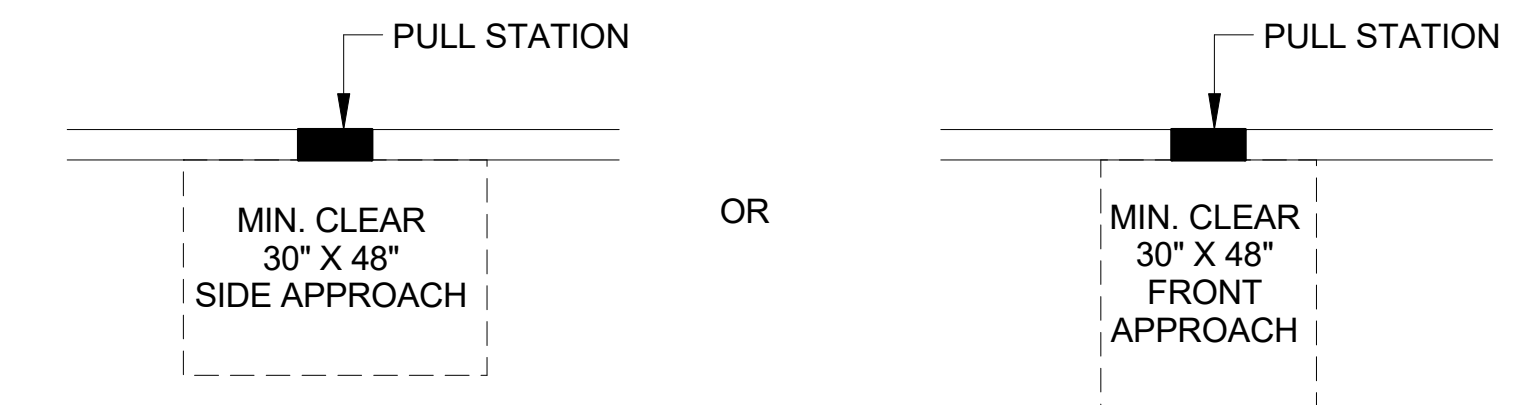
SITE PLAN

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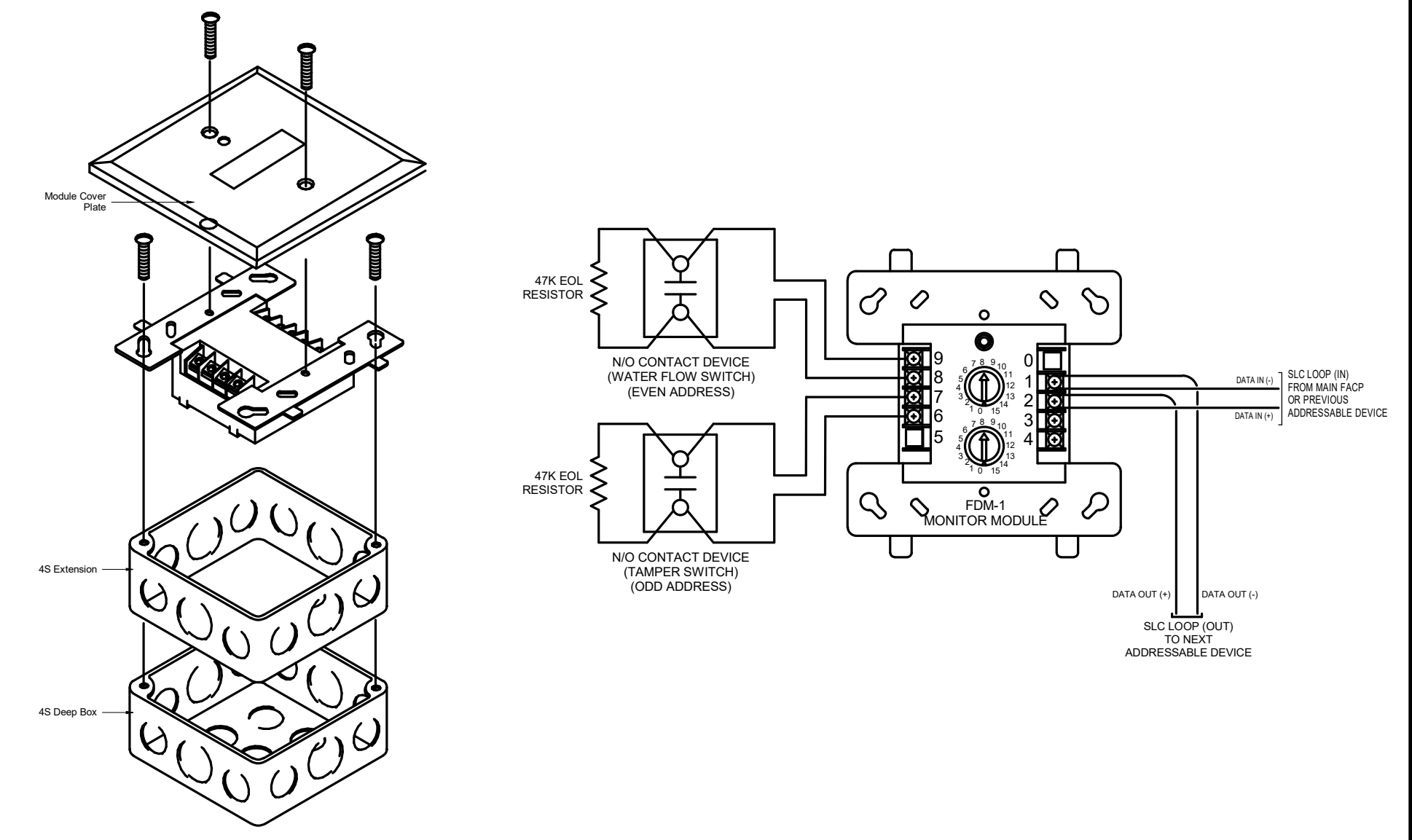
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DETAILS

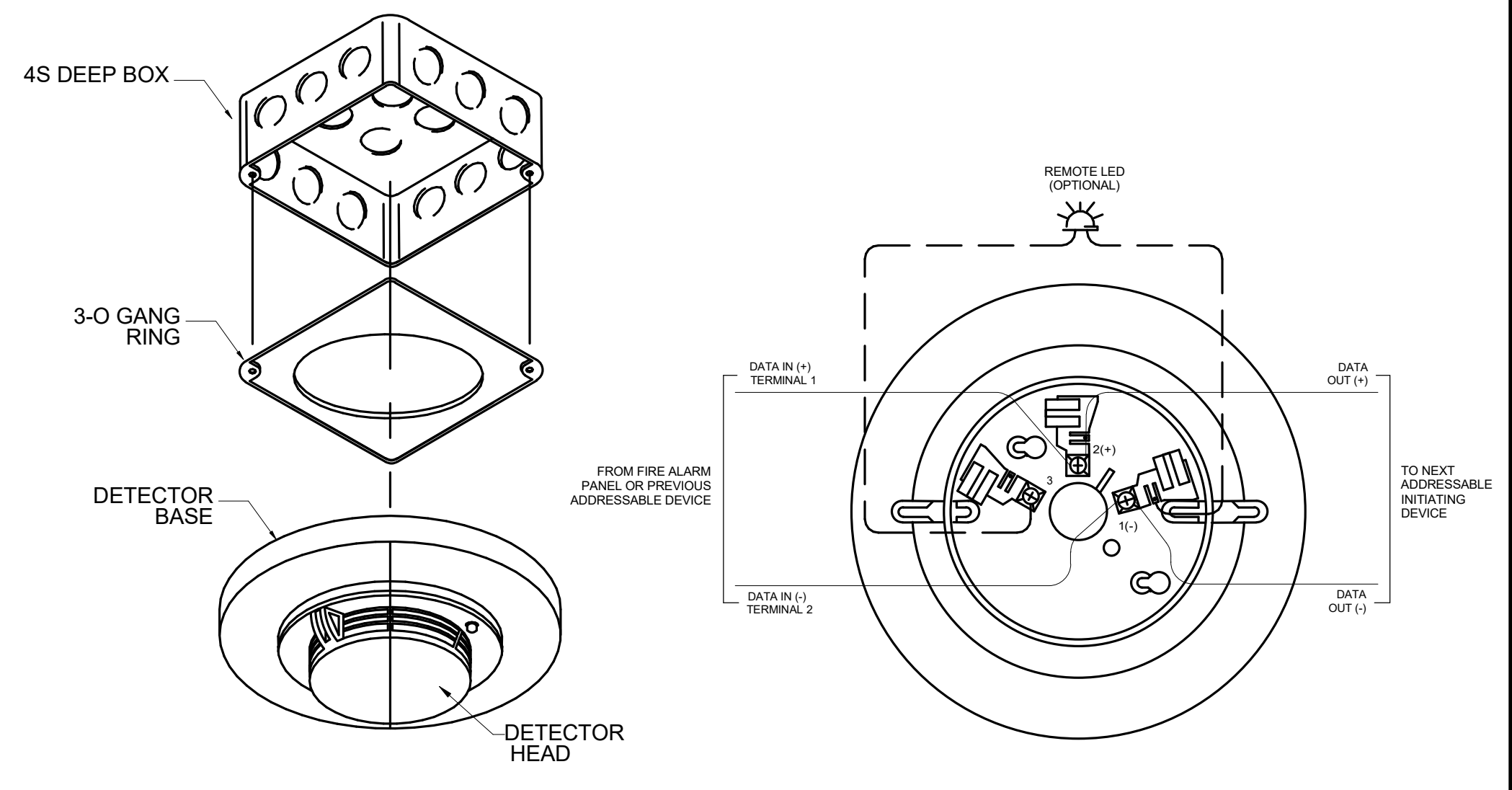
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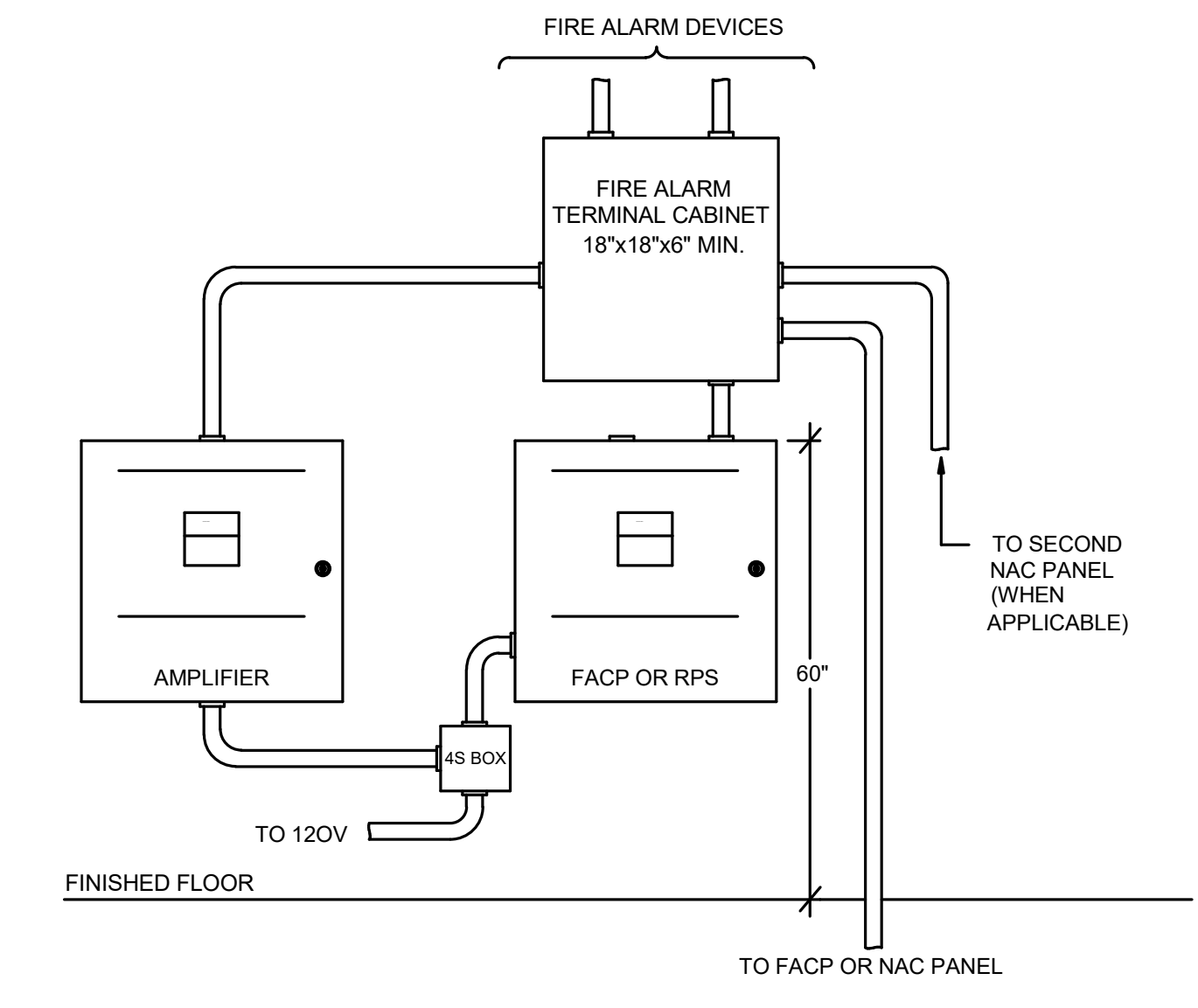
CLEAR SPACE REQUIREMENTS AT FIRE ALARM PULL STATION NTS 1



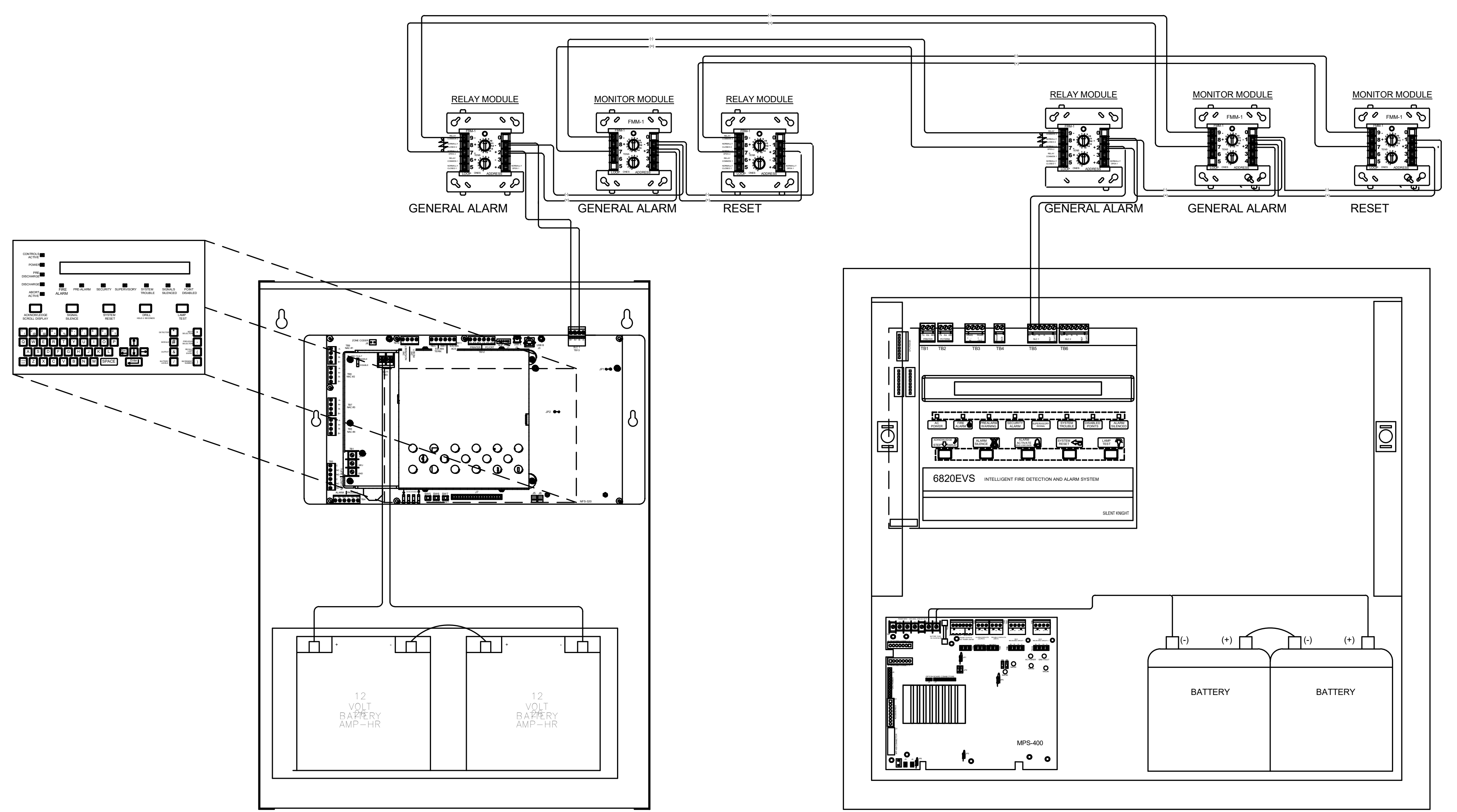
MONITOR MODULE WIRING DETAIL NTS 2



SMOKE/HEAT DETECTOR BASE WIRING DETAIL NTS 3

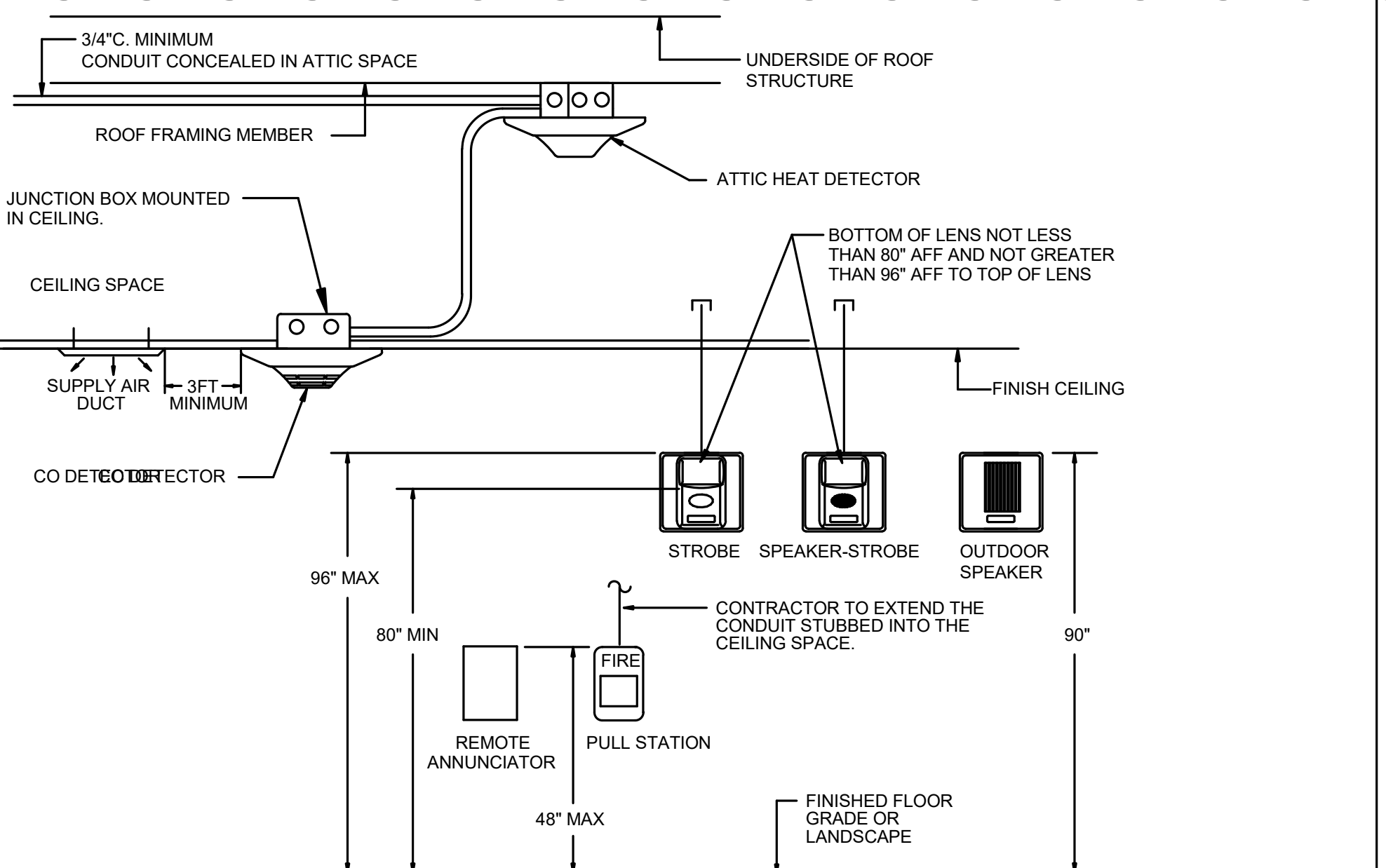


TYPICAL POWER SUPPLY LAYOUT NTS 4

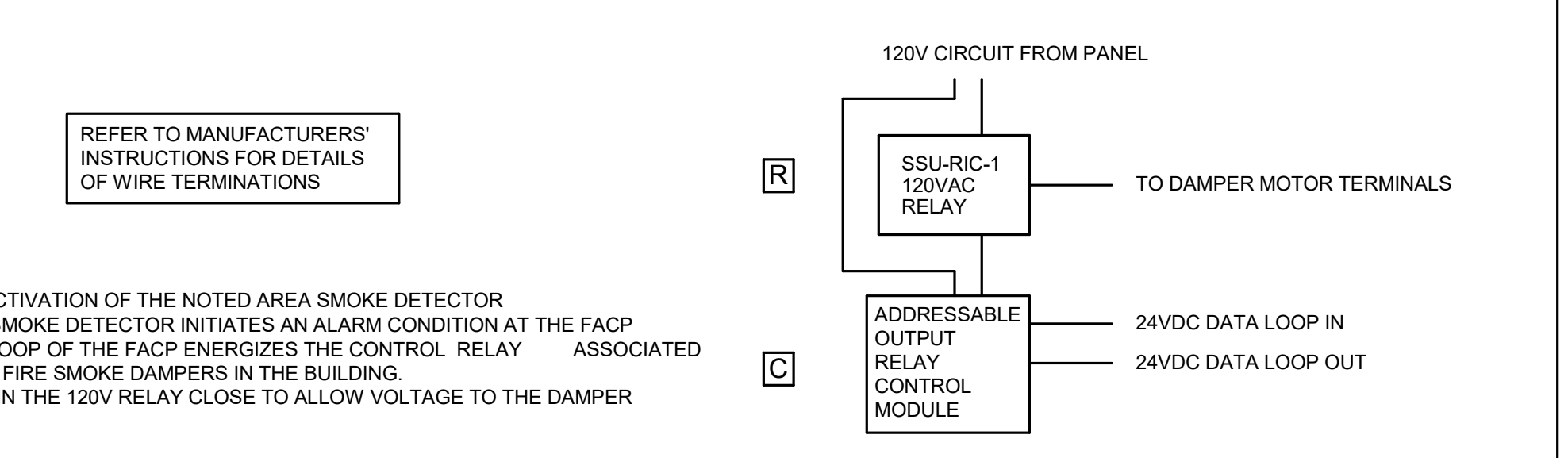


EXISTING FACP (SIMPLEX) NEW FACP (SILENT KNIGHT)

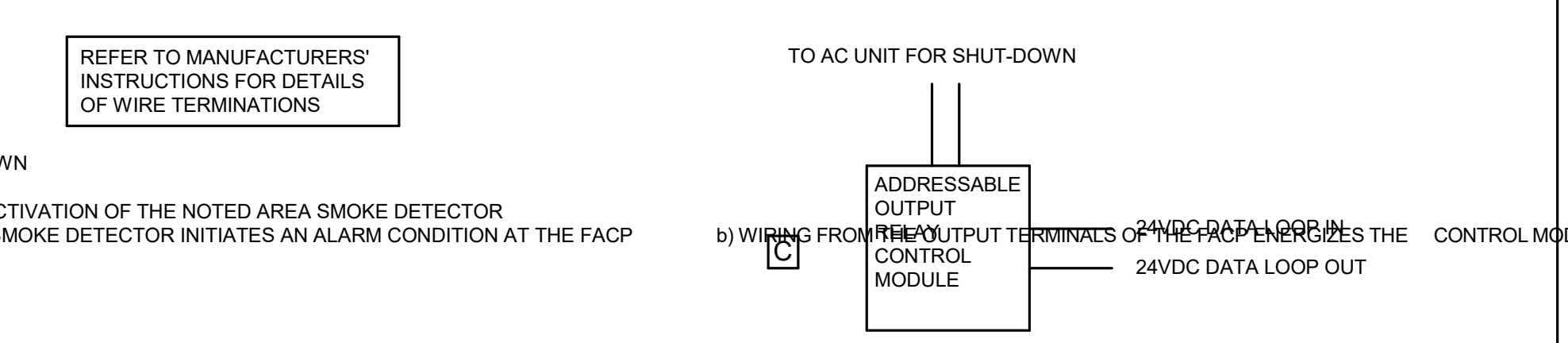
INTERCONNECTING BETWEEN FIRE ALARM CONTROL PANEL DETAIL NTS 5



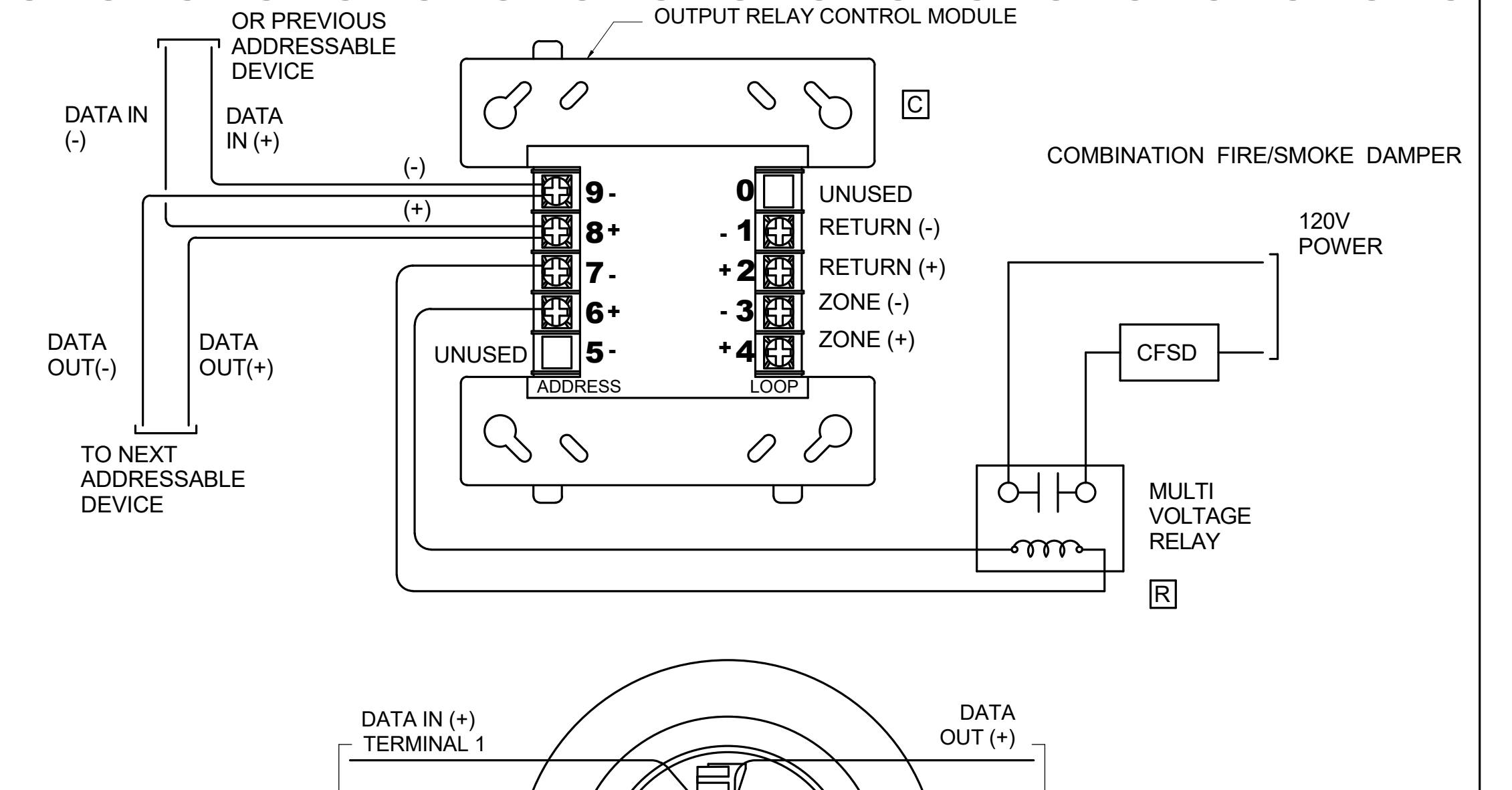
FIRE ALARM DEVICE ELEVATION NTS 7



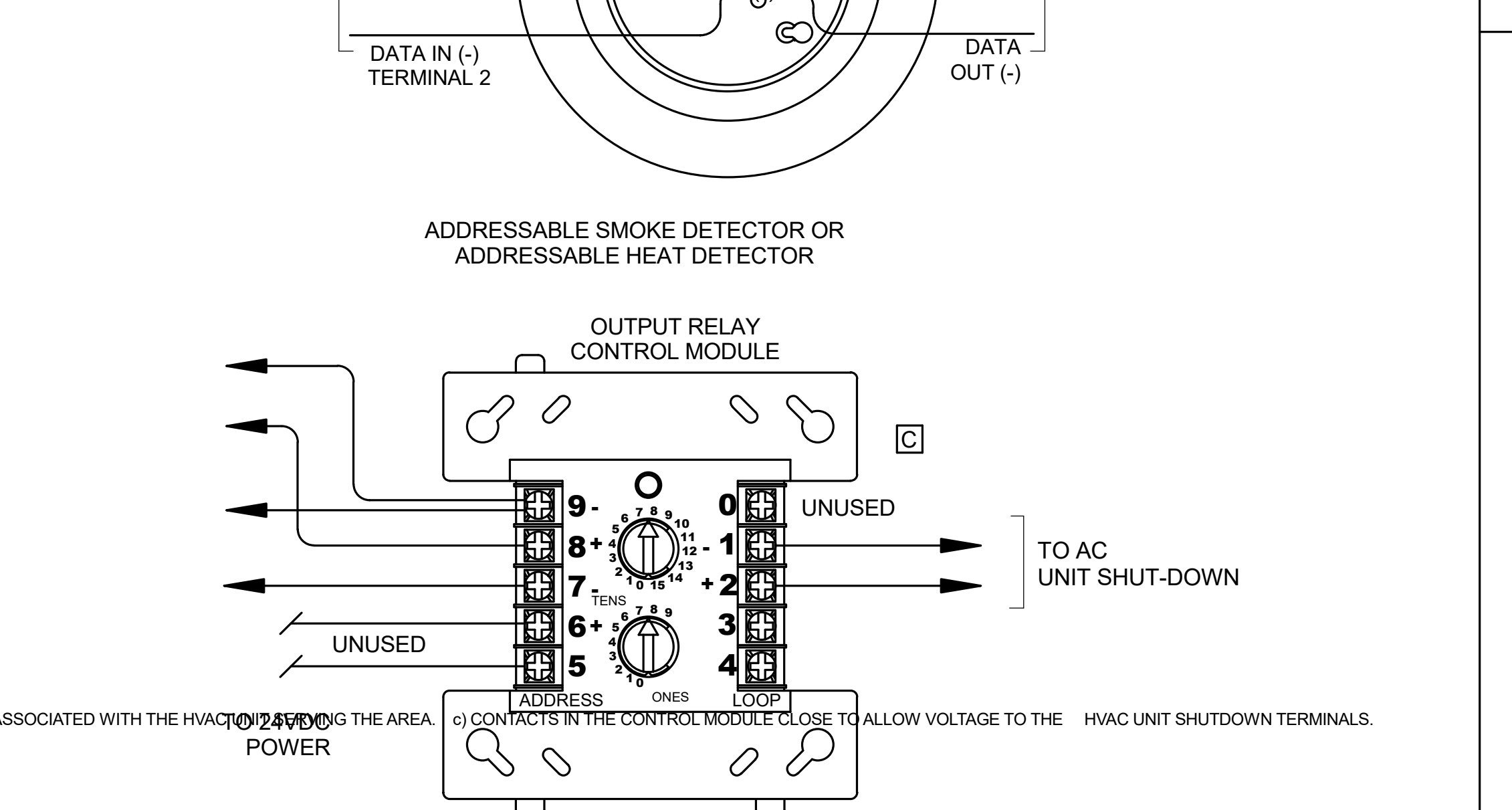
FIRE-SMOKE DAMPER OPERATION NTS 8



HVAC SHUTDOWN NTS 9



TYPICAL FIRE ALARM DEVICE WIRING DETAIL NTS 6



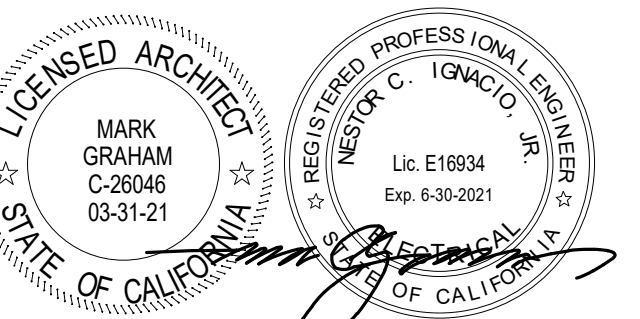
TYPICAL FIRE ALARM DEVICE WIRING DETAIL NTS 6

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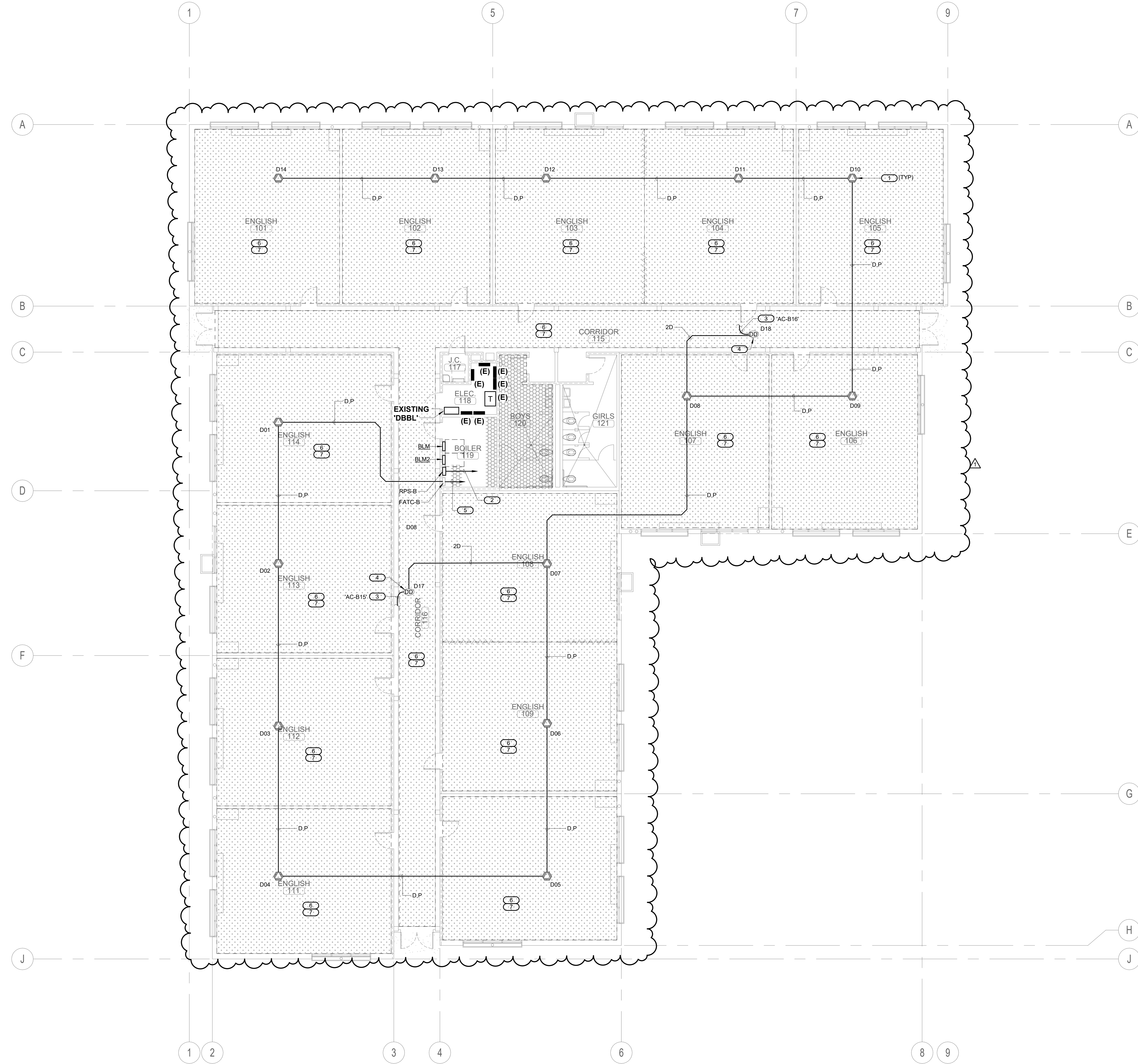
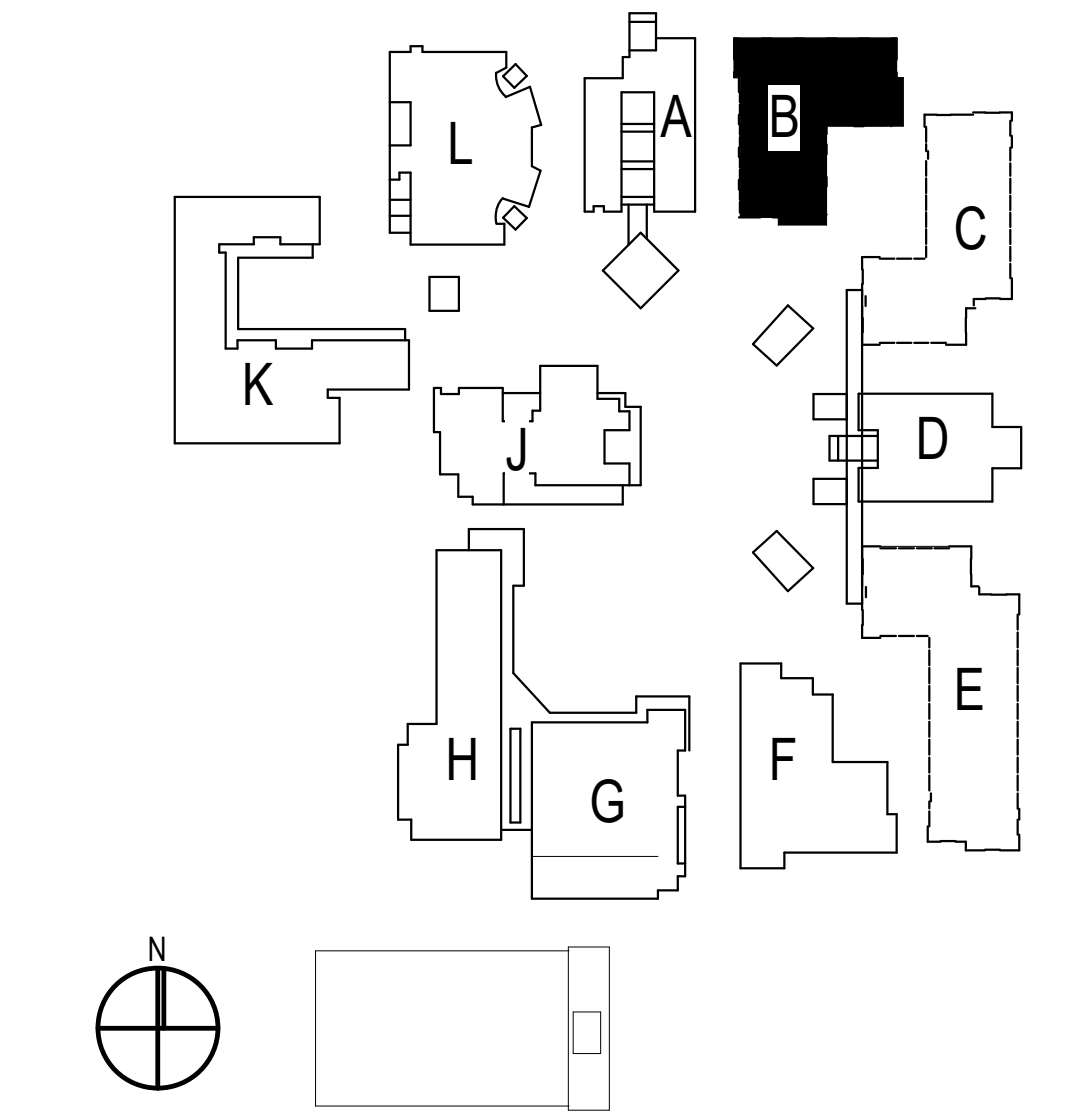


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KEYED NOTES

- PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
- IN FACT LOCATED IN THE ADMIN BUILDING VIA FATE.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING:
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (1-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON-AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION: CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



1	08/25/20	ADDENDUM 1
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PROJECT NUMBER:	Project Number	

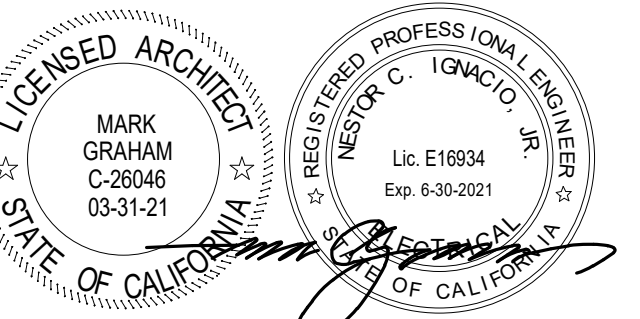
**BUILDING B
REMODEL FLOOR
PLAN**

DRAWING NUMBER: **FAB2.1**

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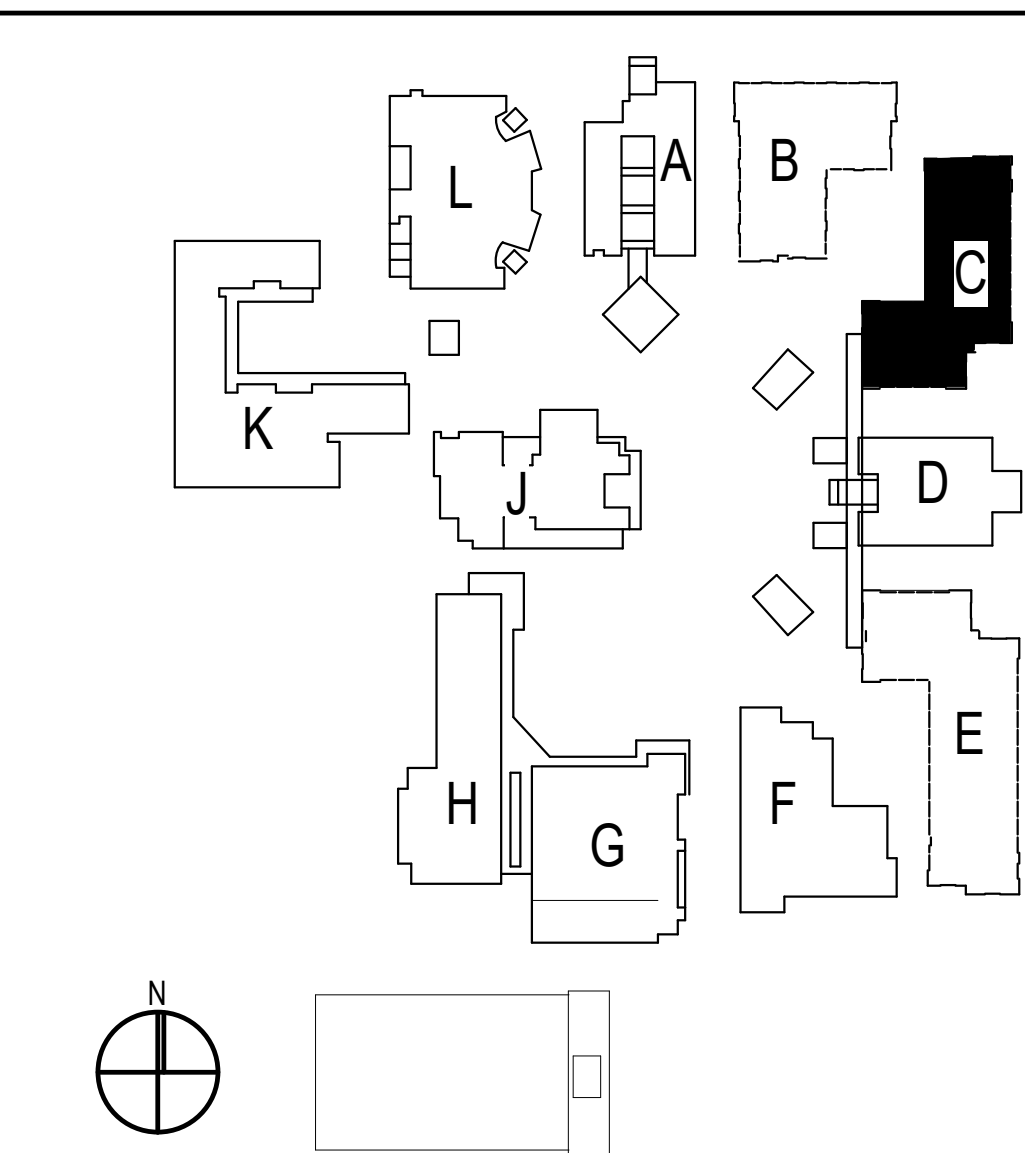
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KEYED NOTES

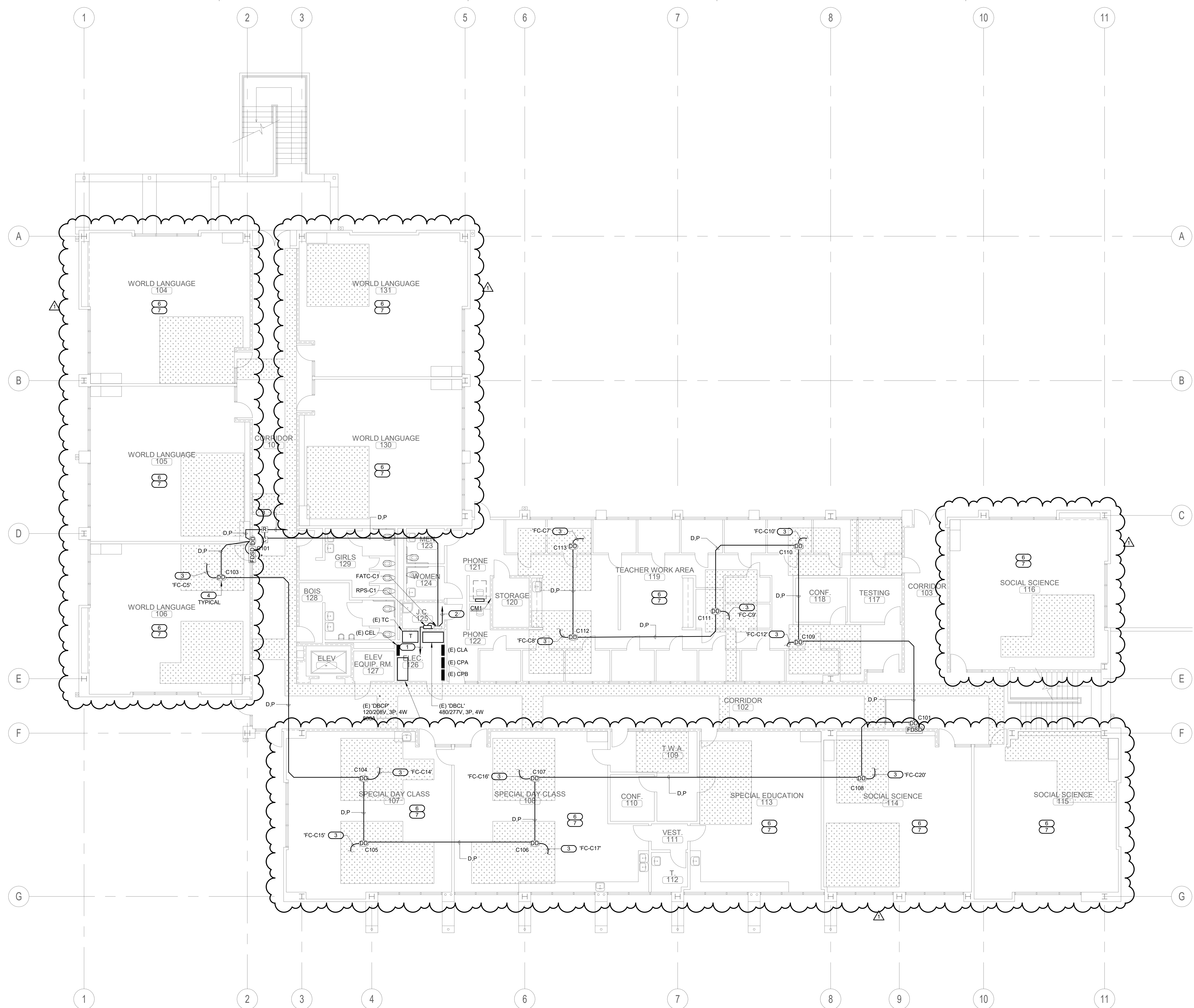
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM" TO CIRCUIT ID.
- TO (N) FACP LOCATED IN THE ADMIN BUILDING VIA FATC.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA RELAY MODULE FOR DAMPER CLOSURE. LABEL RED TO CIRCUIT ID.
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
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 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

NO GAS BURNING HVAC UNIT IN THIS BUILDING.
CO DETECTOR NOT REQUIRED.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



SITE KEY PLAN



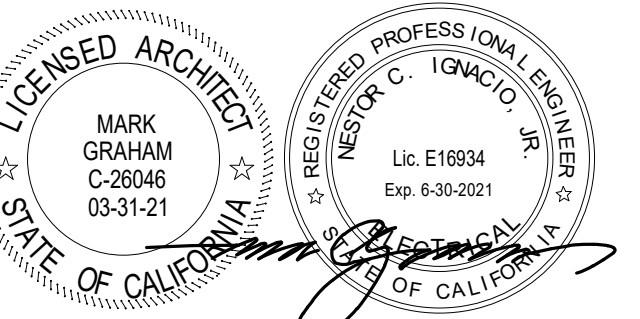
BUILDING C REMODEL FIRST FLOOR PLAN - FA 1/8" = 1'-0" 1

1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
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BUILDING C REMODEL 1ST FLOOR PLAN			
DRAWING NUMBER:	FAC2.1		

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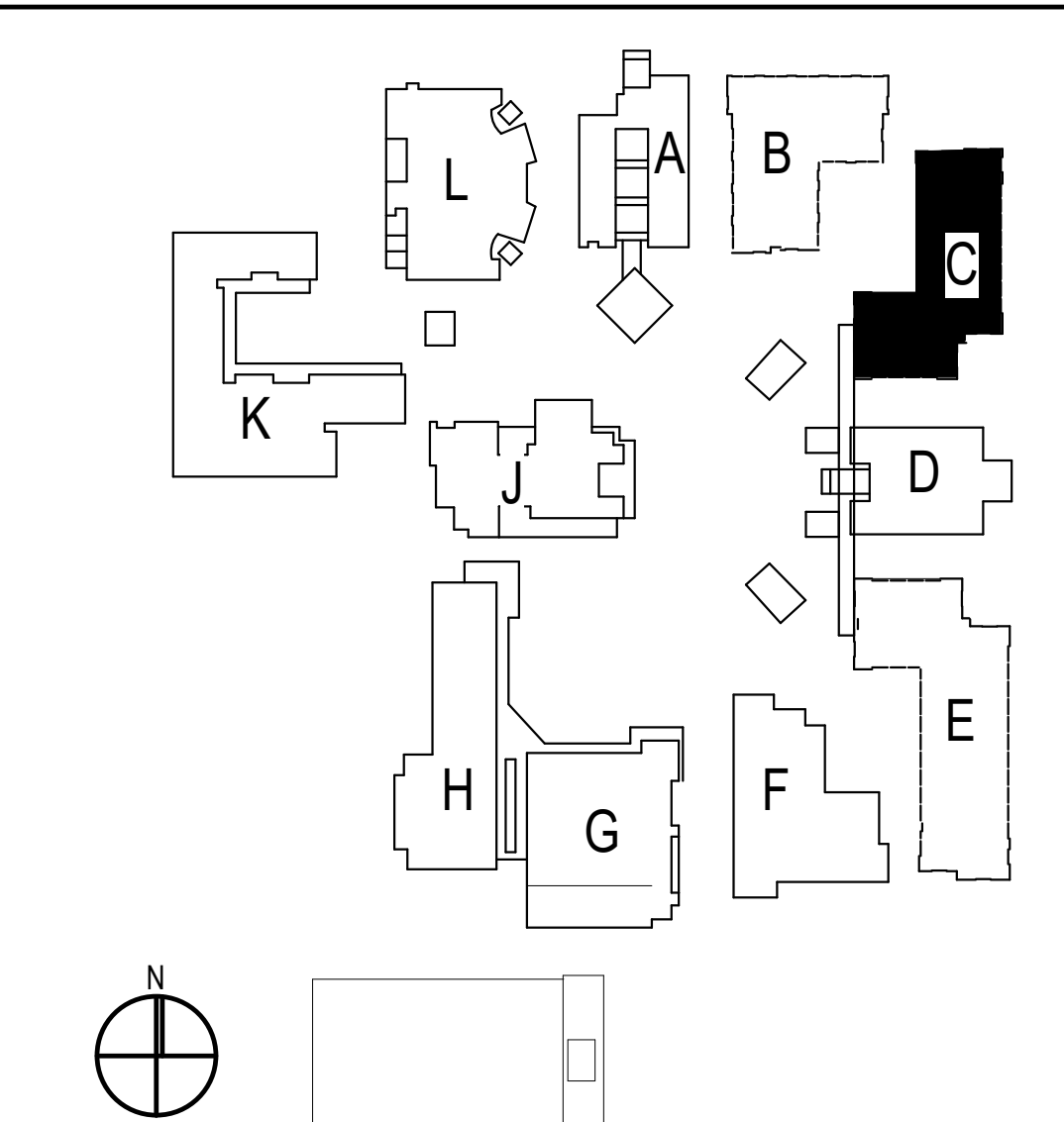
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KEYED NOTES

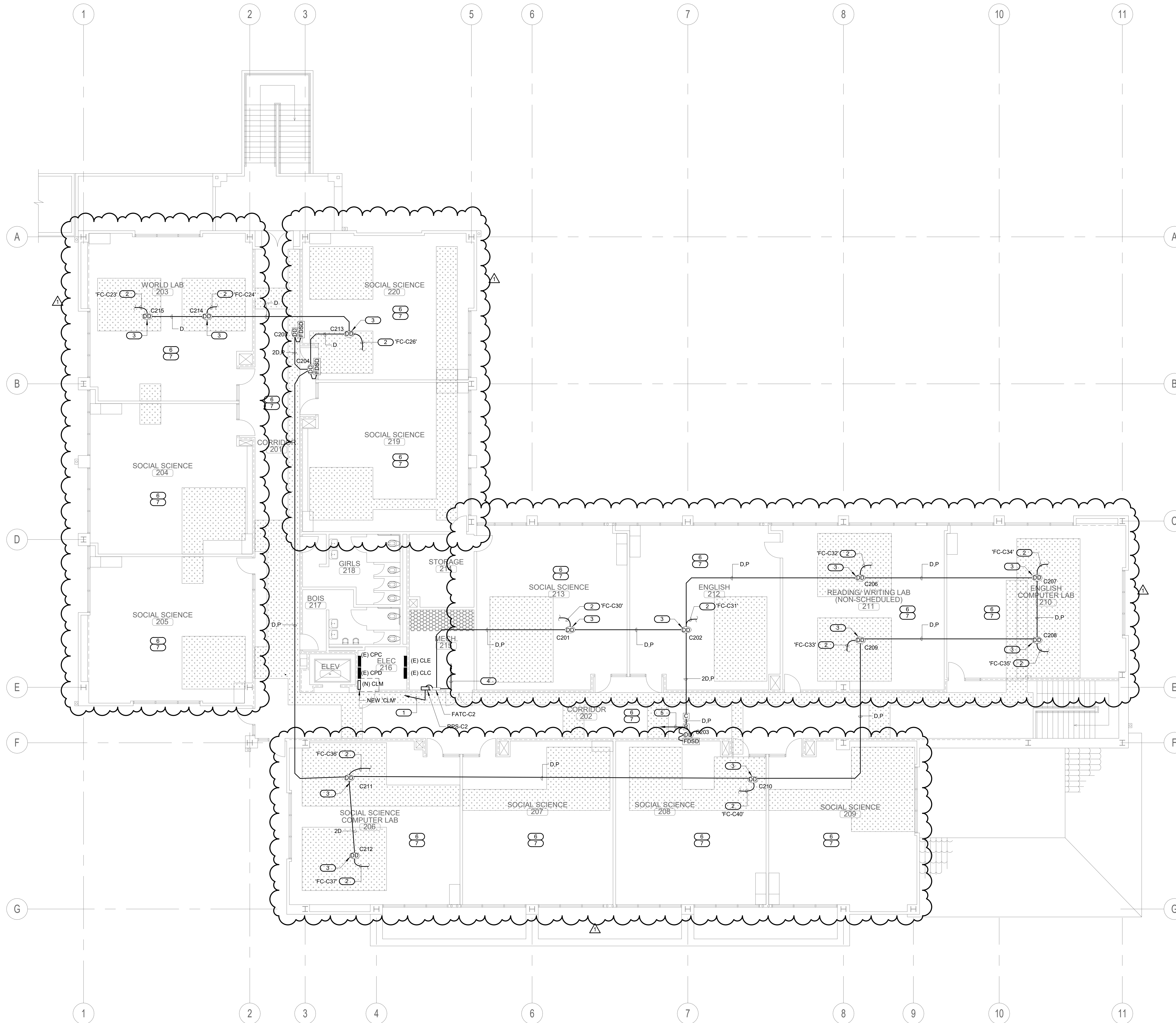
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT.
- TO (N) FACP LOCATED IN THE ADMIN BUILDING VIA FATC.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA NEW W/ MODULE FOR DAMPER. LABEL RED TO CIRCUIT ID.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLES ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
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 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

NO GAS BURNING HVAC UNIT IN THIS BUILDING.
CO DETECTOR NOT REQUIRED.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



SITE KEY PLAN



1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
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DATE:	Issue Date	SCALE:	As indicated
PROJECT NUMBER:	Project Number		

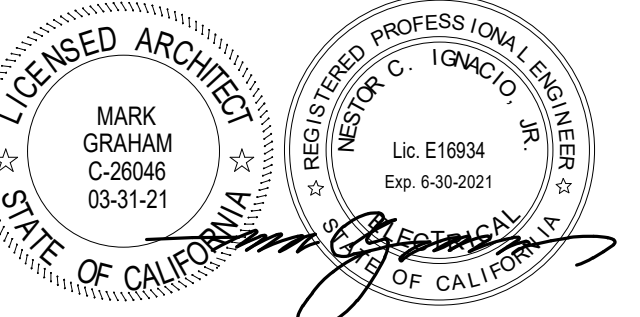
**BUILDING C
REMODEL 2ND
FLOOR PLAN**

DRAWING NUMBER: **FAC2.2**



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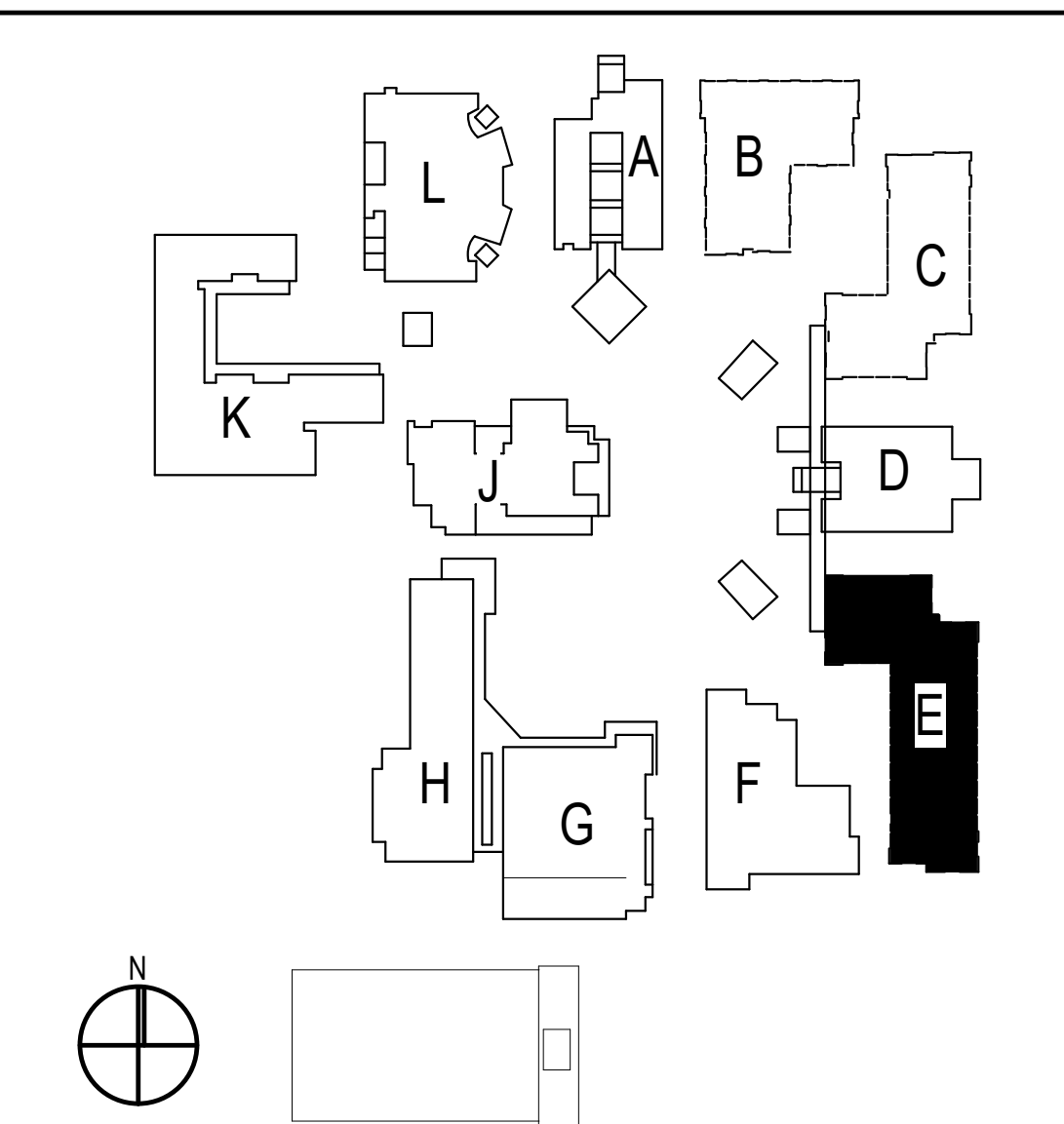
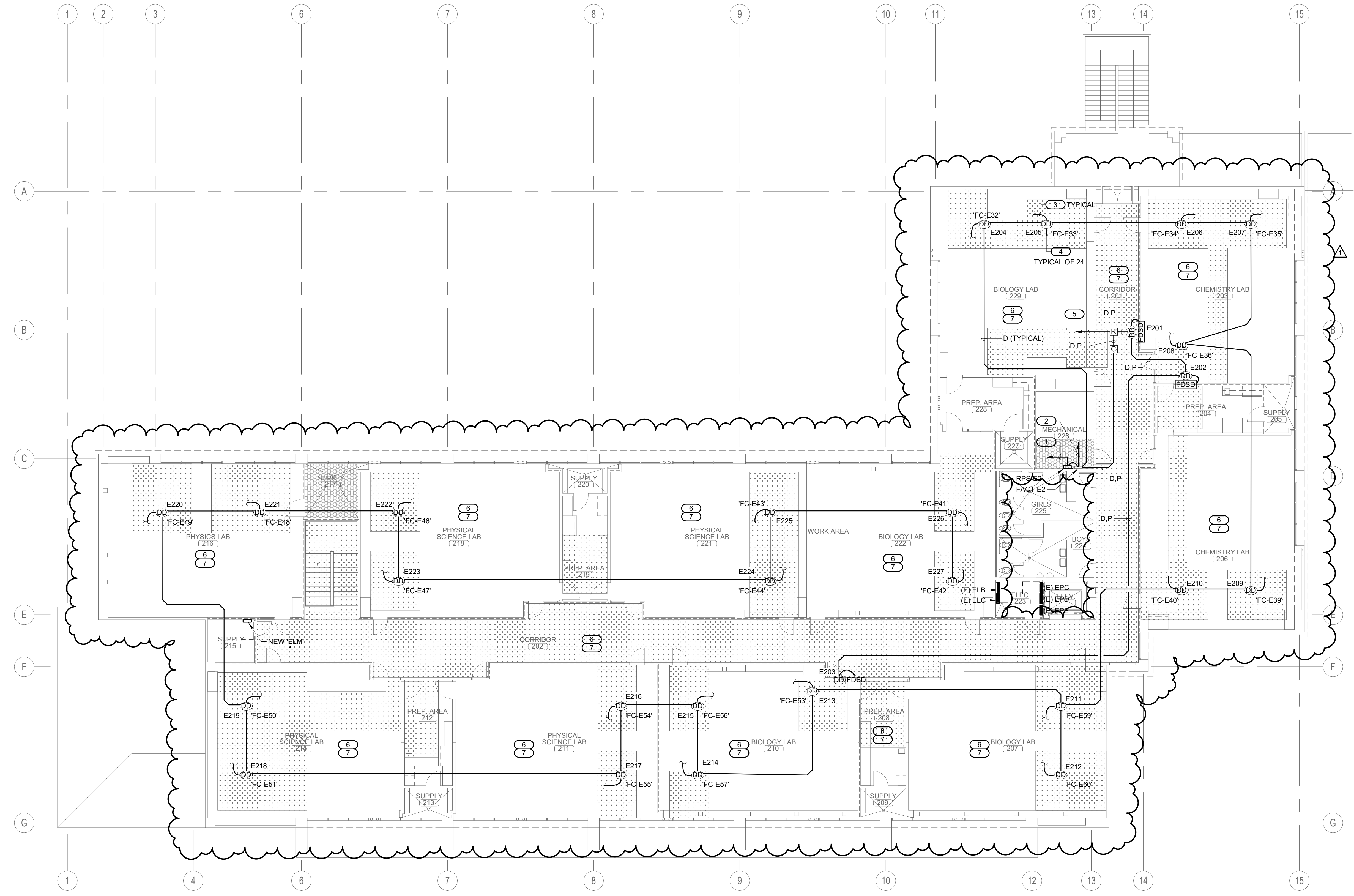
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KEYED NOTES

- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- TO (N) FACP LOCATED IN THE ADMIN BUILDING VIA FATC.
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA RELAY MODULE FOR DAMPER CLOSING LABEL RED TO CIRCUIT ID.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING(COVER)) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
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 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
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 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

NO GAS BURNING HVAC UNIT IN THIS BUILDING.
CO DETECTOR NOT REQUIRED.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN:	Author	CHECKED:	Checker
DATE:	Issue Date	SCALE:	As indicated
PROJECT NUMBER:	Project Number		

**BUILDING E
REMODEL 2ND
FLOOR PLAN**

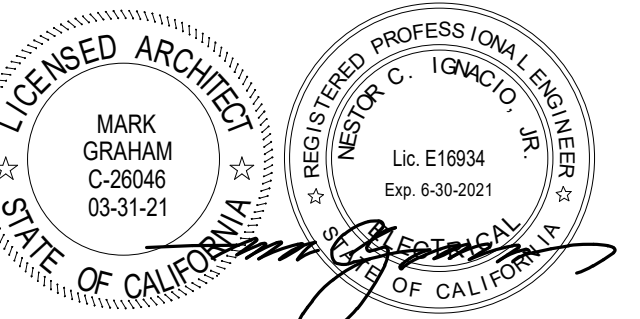
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1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: Author CHECKED: Checker
DATE: Issue Date SCALE: As indicated
PROJECT NUMBER: Project Number

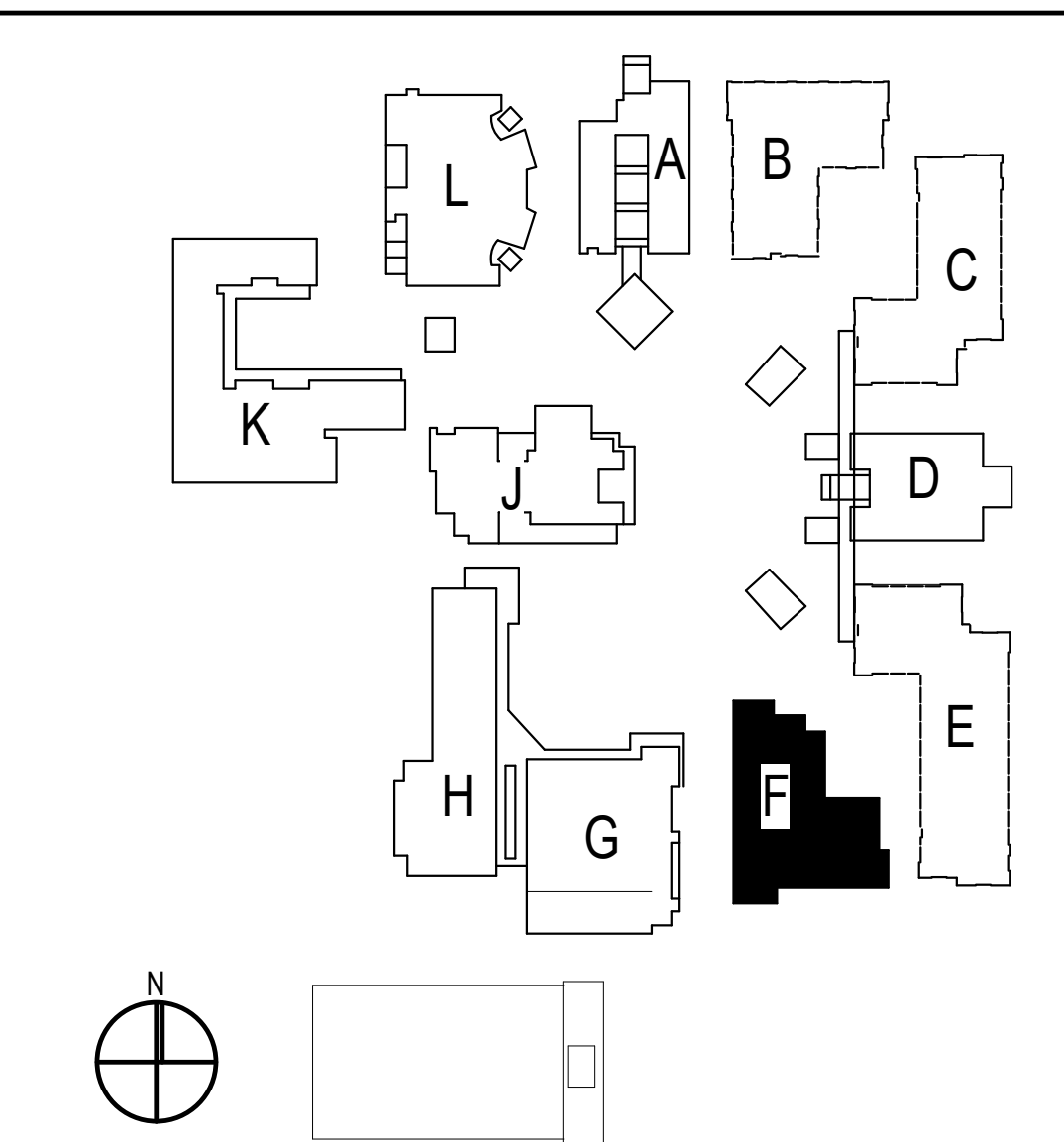
**BUILDING F
REMODEL FLOOR
PLAN**

DRAWING NUMBER: **FAF2.1**

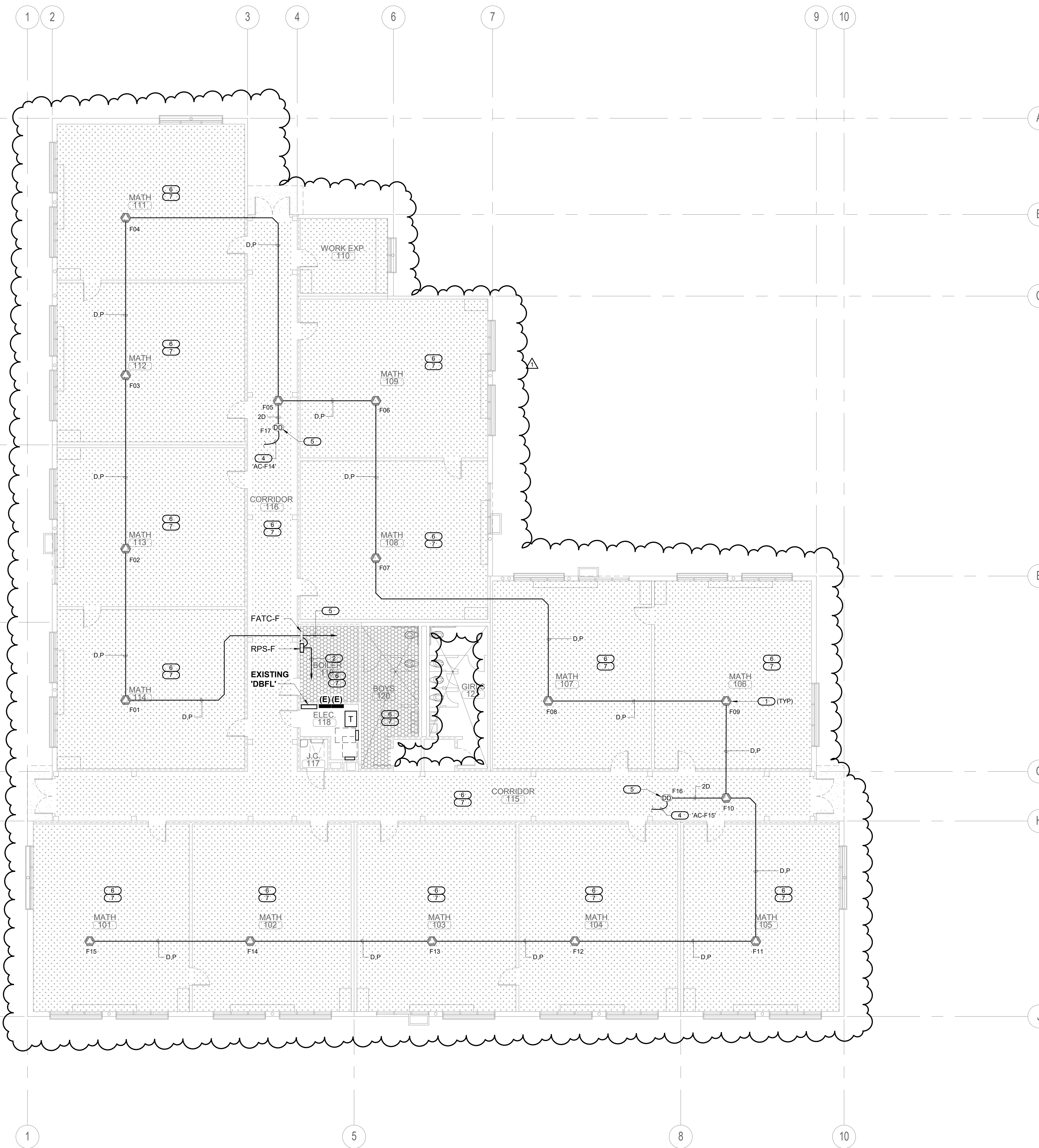
KEYED NOTES

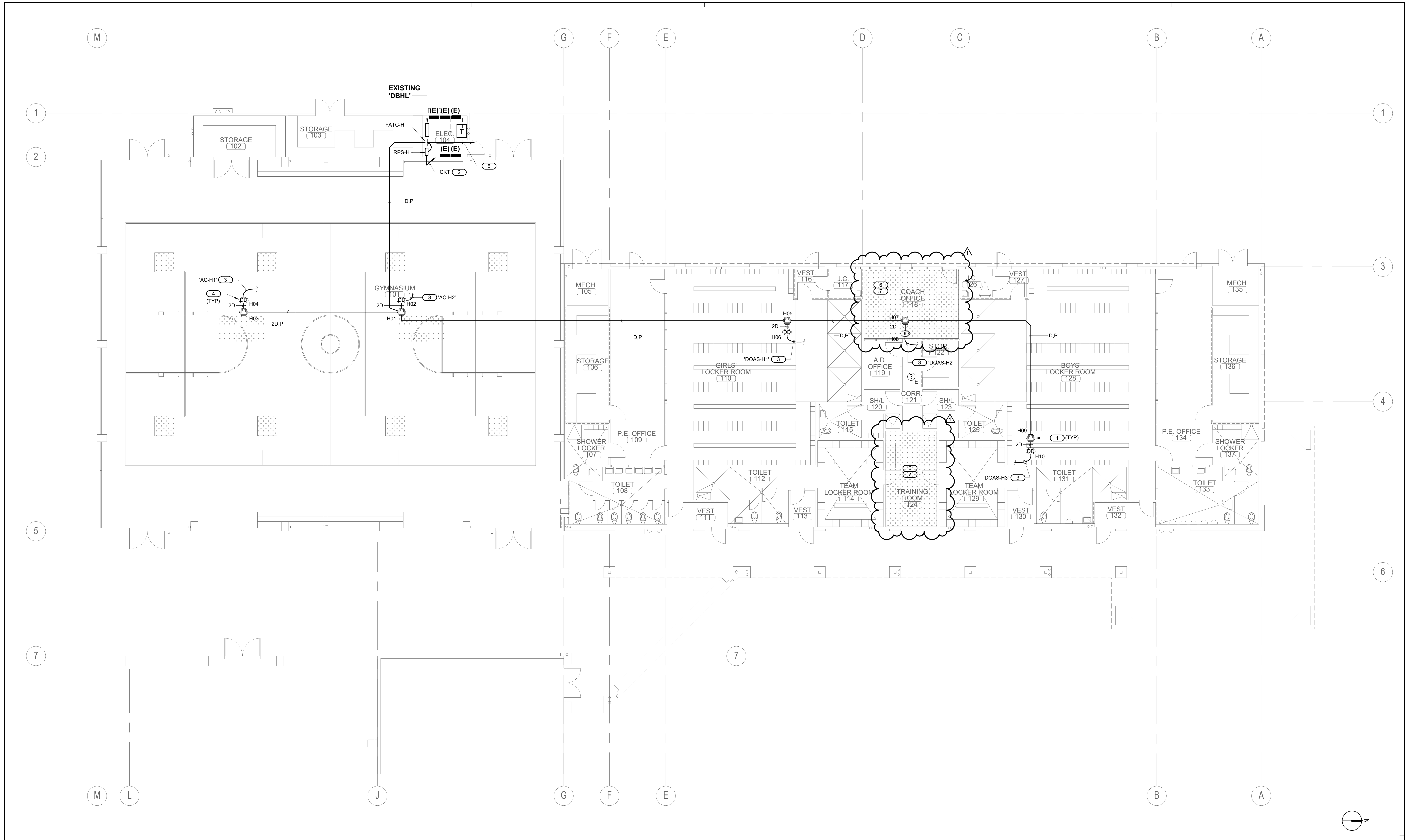
- PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT.
- IN FIBER LOCATED IN THE ADMIN BUILDING IN FATC.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING(COVER)) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE ROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.

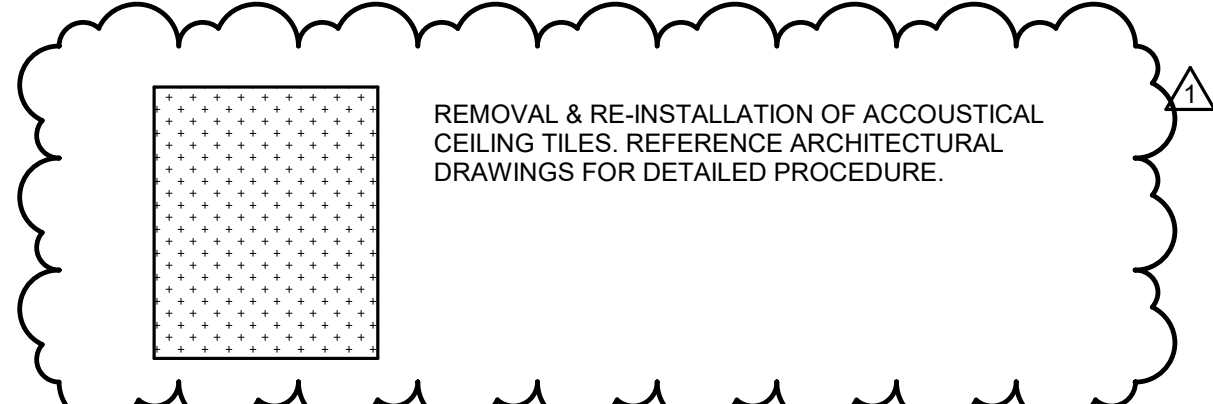


SITE KEY PLAN

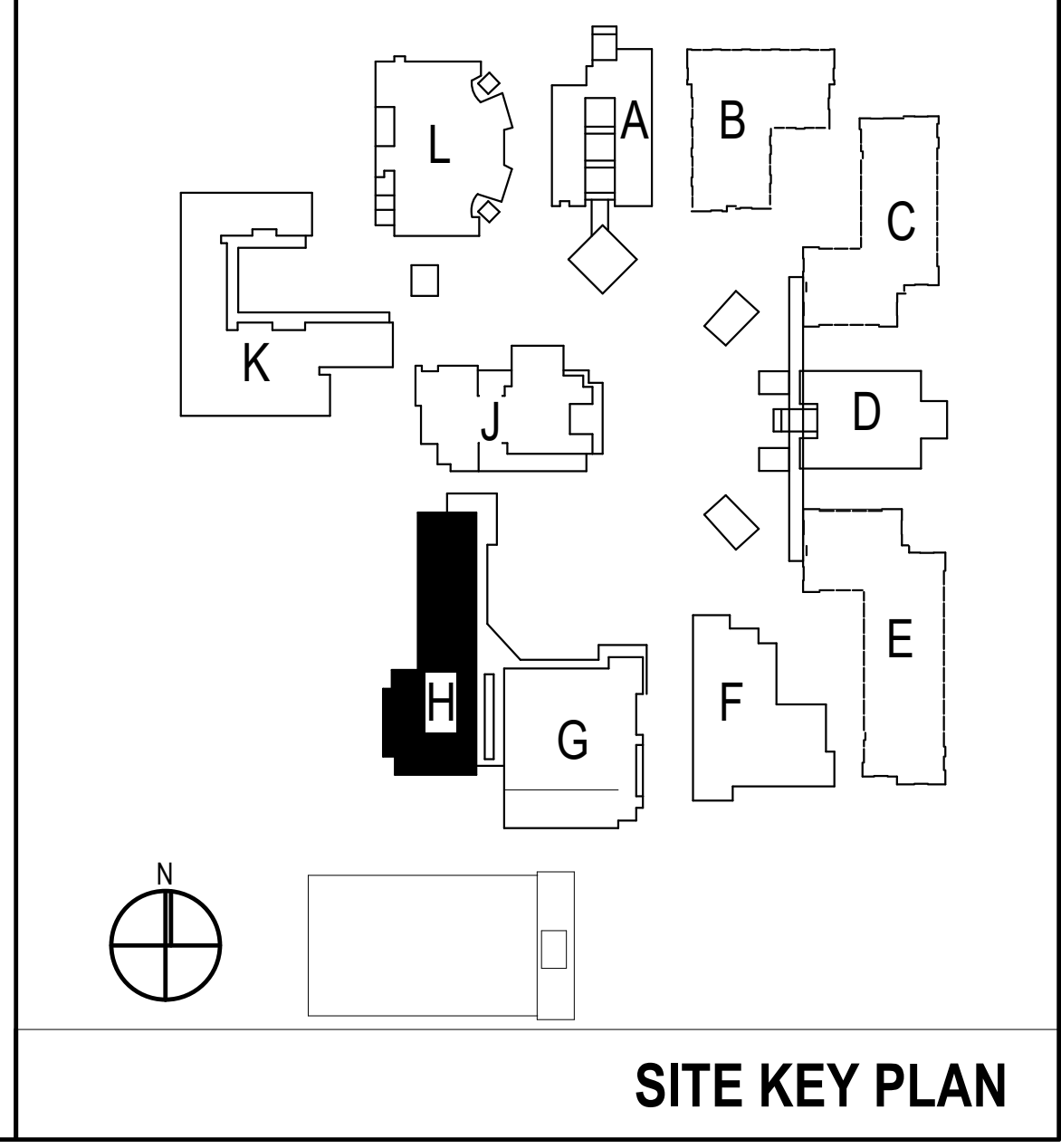




BUILDING H REMODEL FLOOR PLAN - FA 1/8" = 1'-0" 1



- KEYED NOTES**
- PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
 - TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL INDICATING "FIRE ALARM TO CIRCUIT ID."
 - TO HVAC UNIT FOR SHUT-DOWN.
 - REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT.
 - SEE (UL) FOR LOCATES IN THE DRAWING BOARD WITH DATE.
 - FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
 - PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.



NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: As indicated
PROJECT NUMBER: Project Number	

**BUILDING H
REMODEL FLOOR
PLAN**

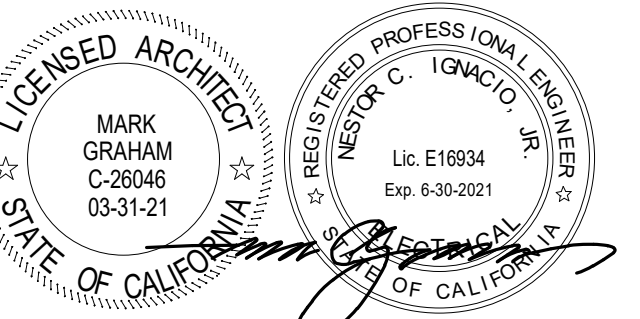
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OXNARD UNION HIGH SCHOOL DISTRICT
SCHOOL SITE (805) 278-2907
3400 W GONZALES RD,
OXNARD, CA 93036

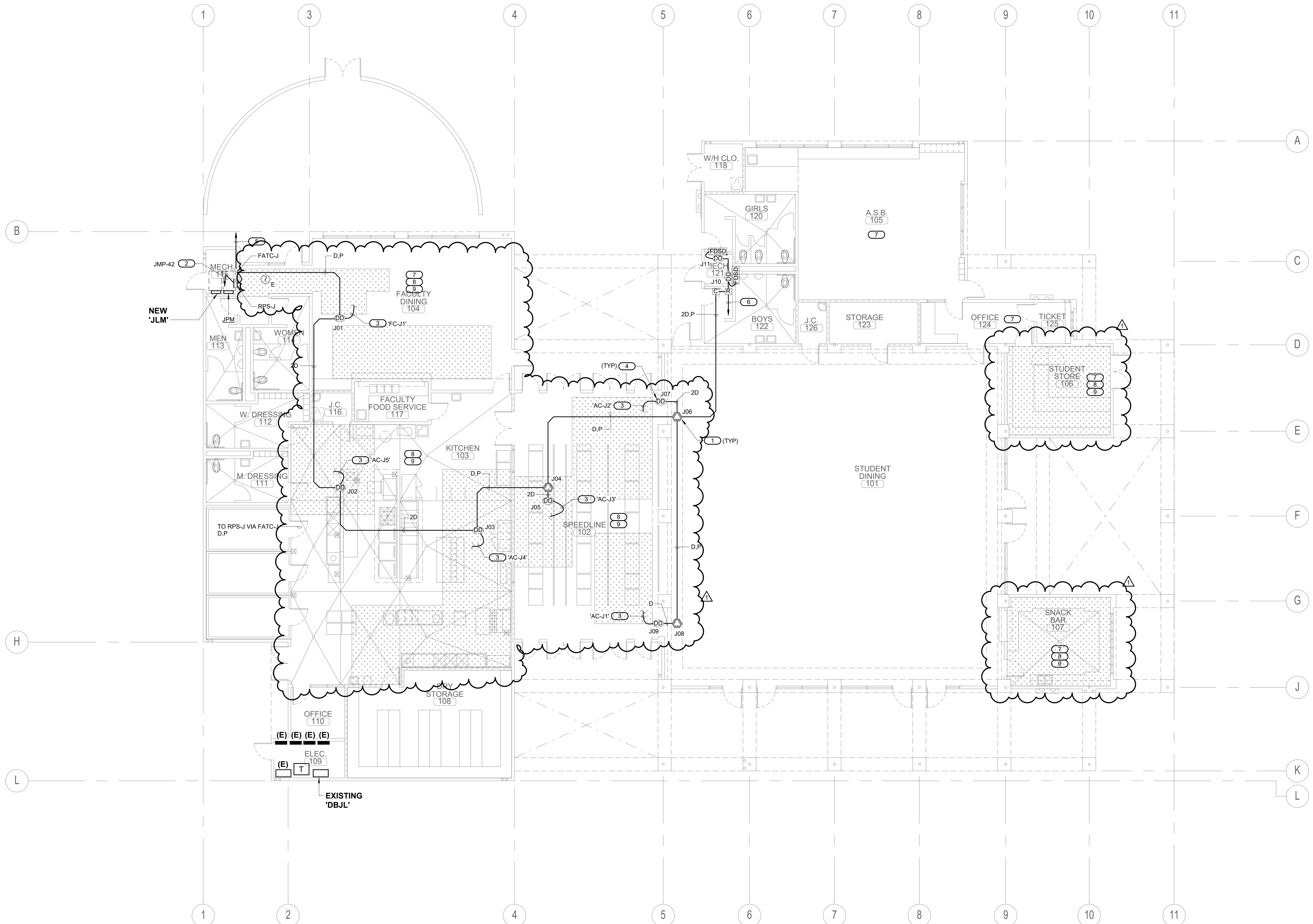
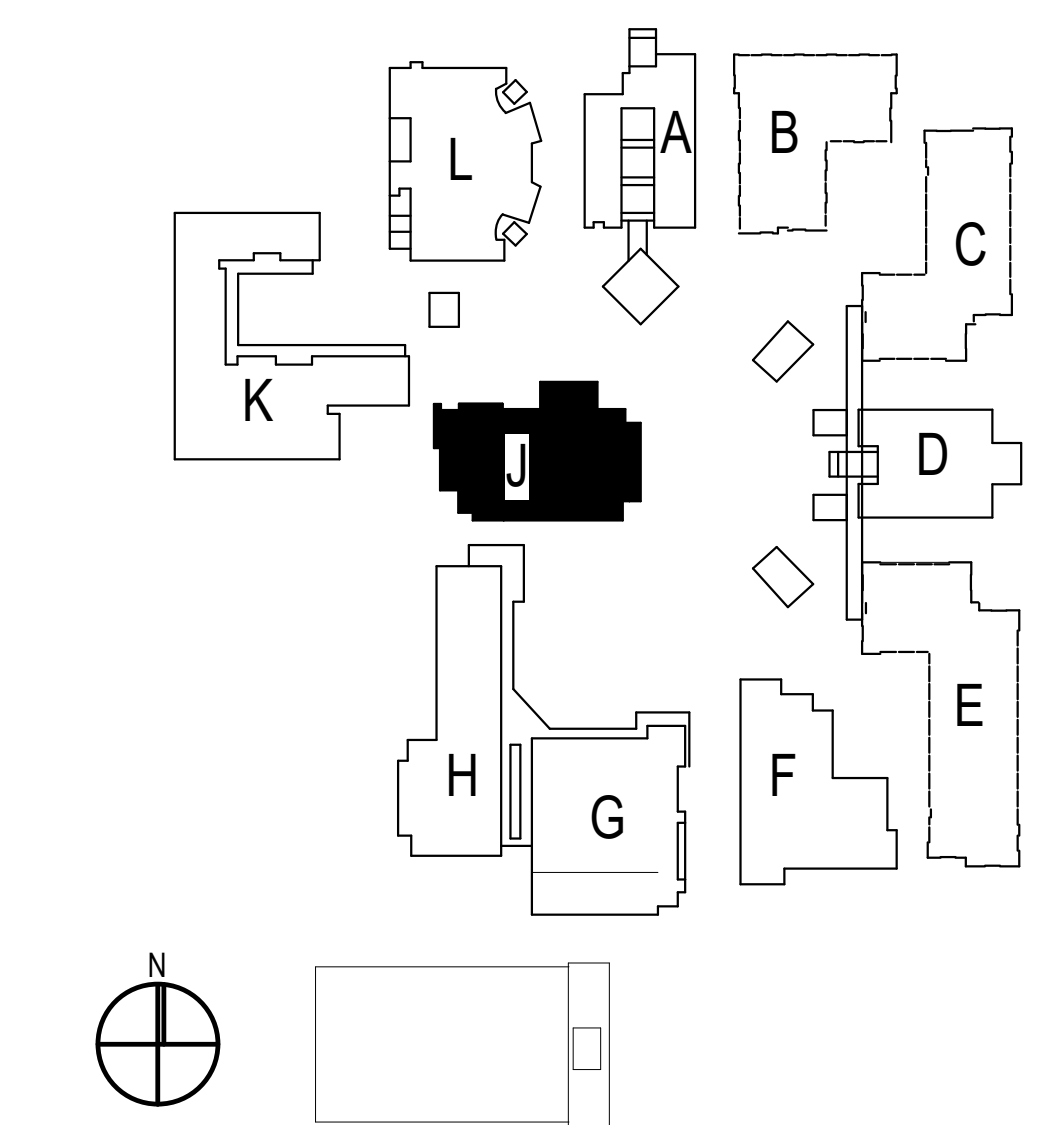


CONSULTANT
IMEG
901 VIA PIEMONTE SUITE 400
ONTARIO, CA 91764
909-477-6915 FAX: 909-477-6916
www.imegcorp.com # 19002940.00

KEYED NOTES

- PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT.
- TO (N) FACP LOCATED IN THE ADMIN BUILDING VIA FATC.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA RELAY MODULE FOR DAMPER CLOSURE. LABEL RED TO CIRCUIT ID.
- NO GAS BURNING UNIT IN THIS AREA. CO DETECTOR NOT REQUIRED.
- FIRE ALARM DEVICE AFFECTED DURING REMOVE-RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
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REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN:	Author	CHECKED:	Checker
DATE:	Issue Date	SCALE:	As indicated
PROJECT NUMBER:	Project Number		

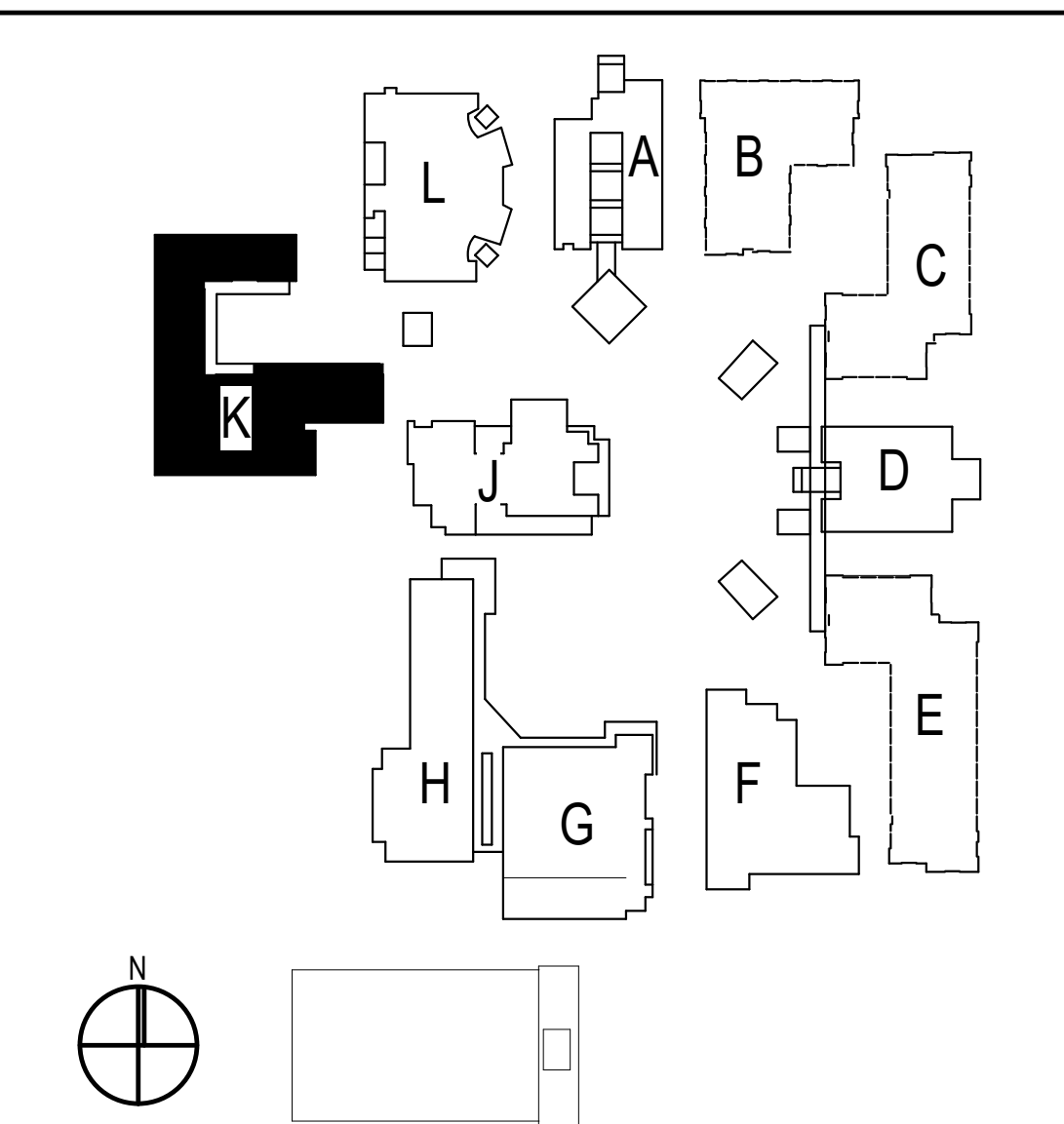
**BUILDING J
REMODEL FLOOR
PLAN**

DRAWING NUMBER: **FAJ2.1**

KEYED NOTES

- PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT.
- TO (N) FACP LOCATED IN THE ADMIN BUILDING VIA FATC.
- NO GAS BURNING UNIT IN THIS AREA. GAS DETECTOR NOT REQUIRED.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (I-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
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REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



SITE KEY PLAN

BUILDING K REMODEL FLOOR PLAN - FA 1/8" = 1'-0" 1



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1	08/25/20	Addendum 1	
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DRAWN:	Author	CHECKED:	Checker
DATE:	Issue Date	SCALE:	As indicated
PROJECT NUMBER:	Project Number		

**BUILDING K
REMODEL FLOOR
PLAN**

DRAWING NUMBER: **FAK2.1**

Bid Clarification Addendum #3

Attachment C

Architect's Addendum #1

Pacifica HS



CLIENT FOCUSED. PASSION DRIVEN.

August 25, 2020

TO : All Bidders
FROM : Mark Graham, Principal
PROJECT : Pacifica High School HVAC Improvements
1917100.41
SUBJECT : Addendum 1
DSA : 03-120527 / 56-H4

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

1. PROJECT MANUAL

1.1 SECTION 01 11 00 - SUMMARY OF WORK

- A. Replace DSA approved Specification Section 01 11 00 in its entirety with the attached revised Specification Section 01 11 00.

1.2 SECTION 02 41 19 - SELECTIVE DEMOLITION

- A. Delete Section 3.8, Schedules in its entirety.

1.3 SECTION 08 31 00 - ACCESS DOORS AND FRAMES

- A. Item 3.3 Installation Schedule Item B:
 - 1. Delete Items 1, 2, 3, 4, 5, 6, and 7.
 - 2. Add Item 1. to read "PROVIDE QUANTITIES AS REQUIRED TO REACH ALL NEEDED LEVERS, SWITCHES, AND KNOBS FOR A COMPLETE OPERATIONAL SYSTEM."

1.4 SECTION 23 72 00 - ENERGY RECOVERY DEVICES

- A. Replace DSA approved Specification Section 23 72 00 in its entirety with the attached revised Specification Section 23 72 00.

Addendum 1
Pacifica High School HVAC Improvements
Project 1917100.41
DSA 03-120527 / 56-H4
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1.5 SECTION 23 74 11 - PACKAGED ROOFTOP AIR CONDITIONING UNITS

- A. Replace DSA approved Specification Section 23 74 11 in its entirety with the attached revised Specification Section 23 74 11.

1.6 SECTION 23 81 26 - SPLIT SYSTEM AIR CONDITIONING UNITS

- A. Replace DSA approved Specification Section 23 81 26 in its entirety with the attached revised Specification Section 23 81 26.

1.7 SECTION 23 81 45 - VARIABLE REFRIGERANT FLOW HEAT PUMPS

- A. Replace DSA approved Specification Section 23 81 45 in its entirety with the attached revised Specification Section 23 81 45.

DRAWINGS

General Notes

- 1.8 Where ceiling tiles are called out to be removed and reinstalled, the Contractor will remove existing electrical devices from the ceiling tiles, but still keep them operational, and then reattach them to the new or old tiles when they reinstall the ceiling tiles. Provide temporary support as needed for these devices.
- 1.9 For condensate lines that drain to exterior drywells, use Detail 8/7.1, 9/M4.4 and 6/MP4.4 typical.
- 1.10 For all roof infill conditions, the Contractor shall at a minimum bid 6" rigid foam patch back of all roofs for Pacifica High School. Existing conditions of each roof will probably vary depending on location of material on roof. See Specification 07 51 13 for insulation requirements and attachments.
- 1.11 For T-bar type ceilings that get completely replaced, see Details on 9.2, 9.3, and 9.4 typical.
- 1.12 For bidding purposes, Contractor shall supply (5%), five percent, of new ceiling tiles for existing rooms where the tile has been removed and will be reinstalled. Use these tiles to replace damaged tiles, chipped tiles, missing tiles, or stained tiles. The five percent shall be based on the entire room, not the area being removed. If tiles are not used, turn over tiles to the District at the end of the project. Have inspector verify the tiles have been provided prior to use.
- 1.13 For rooms that have hard lid ceilings and where work is being performed, the Contractor shall remove and reinstall access panels at new locations to reach new mechanical and electrical devices in the attic space. Locations to be determined in field.

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- 1.14 No equipment of any kind, including: conduits, wires, plumbing pipes, duct work, electrical boxes shall be placed within or pass through the elevator shaft or the Elevator Machine Rooms typical. The only exception is if the Machine Room is receiving new work for that room.

Architectural

1.15 DRAWING A0.2 - DRAWING INDEX

A. DRAWING INDEX

1. Revise AJ3.3 from AREA A to AREA B.
2. Revise AJ4.0 from AREA B to AREA A.

1.16 DRAWING AA4.1- NEW ROOF PLAN - BLDG A

A. LEGEND

1. Add text "INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 13/S0.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF." AFTER EXISTING TEXT "...PER 3/7.1."

1.17 DRAWING AB4.1- NEW ROOF PLAN - BLDG B

A. LEGEND

1. Add text "INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 13/S0.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF." AFTER EXISTING TEXT "...PER 3/7.1."

1.18 DRAWING AC4.1- NEW ROOF PLAN - BLDG C

A. LEGEND

1. Add text "INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 13/S0.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF." AFTER EXISTING TEXT "...PER 3/7.1."

1.19 DRAWING AD3.0- DEMO CEILING PLAN - BLDG D - AREA A

A. LEGEND

1. Delete "DEMO TYPE 4" in its entirety. (Not applicable in Area A.)

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1.20 DRAWING AD3.1- DEMO CEILING PLAN - BLDG D - AREA A

A. LEGEND

1. Delete "DEMO TYPE 2A" in its entirety. (Not applicable in Area B.)

1.21 DRAWING AD3.2- NEW CEILING PLAN - BLDG D - AREA A

A. LEGEND

1. Delete "CEILING TYPE 4" in its entirety. (Not applicable in Area A.)

1.22 DRAWING AD3.3- NEW CEILING PLAN - BLDG D - AREA A

A. LEGEND

1. Delete "CEILING TYPE 2A" in its entirety. (Not applicable in Area B.)

1.23 DRAWING AD4.2- NEW ROOF PLAN - BLDG D - AREA A

A. LEGEND

1. Add text "INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 13/S0.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF." AFTER EXISTING TEXT "...PER 3/7.1."

1.24 DRAWING AD4.3- NEW ROOF PLAN - BLDG D - AREA B

A. LEGEND

1. Add text "INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 13/S0.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF." AFTER EXISTING TEXT "...PER 3/7.1."

1.25 DRAWING AE3.0 - DEMO FIRST FLOOR CEILING PLAN - BLDG E

- A. Replace DSA approved Drawing AE3.0 with the attached revised Drawing AE3.0 in its entirety. (Additional ceiling tiles required removal)

1.26 DRAWING AE3.1 - DEMO SECOND FLOOR CEILING PLAN - BLDG E

- A. Replace DSA approved Drawing AE3.1 with the attached revised Drawing AE3.1 in its entirety. (Additional ceiling tiles required removal)

1.27 DRAWING AE3.2 - NEW FIRST FLOOR CEILING PLAN - BLDG E

- A. Replace DSA approved Drawing AE3.2 with the attached revised Drawing AE3.2 in its entirety. (Additional ceiling tiles required replacement)

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1.28 DRAWING AE3.3 - NEW SECOND FLOOR CEILING PLAN - BLDG E

- A. Replace DSA approved Drawing AE3.3 in its entirety with the attached revised Drawing AE3.3. (Additional ceiling tiles required replacement)

1.29 DRAWING AE4.0- DEMO ROOF PLAN - BLDG E

- A. Replace DSA approved Drawing AE4.0 in its entirety with the attached revised Drawing AE4.0. (New equipment was relocated on the roof thus additional demolition of roofing material was required. Revised Legend to reflect partial demolition of roofing material.)

1.30 DRAWING AE4.1- NEW ROOF PLAN - BLDG E

- A. Replace DSA approved Drawing AE4.1 in its entirety with the attached revised Drawing AE4.1. (New equipment was relocated on the roof and added new text to legend note)

1.31 DRAWING AF3.0 DEMO CEILING PLAN - BLDG F

- A. Replace DSA approved Drawing AF3.0 in its entirety with the attached revised Drawing AF3.0. (VRF plumbing has been relocated, so we had to adjust the removal of ceiling tile locations.)

1.32 DRAWING AF3.1 DEMO CEILING PLAN - BLDG F - 2F

- A. Replace DSA approved Drawing AF3.1 in its entirety with the attached revised Drawing AF3.1. (Drawing appeared to have the first-floor drawing shown, not the second floor, so we replaced the entire drawing.)

1.33 DRAWING AF3.2 NEW CEILING PLAN BLDG F

- A. Replace DSA approved Drawing AF3.2 in its entirety with the attached revised Drawing AF3.2. (VRF plumbing has been relocated, so we had to adjust the removal of ceiling tile locations.)

1.34 DRAWING AF3.3 - NEW CEILING PLAN - BLDG F - 2F

- A. Replace DSA approved Drawing AF3.3 in its entirety with the attached revised Drawing AF3.3. (New Ceiling Plan was not showing the correct reflected ceiling plan. VRF plumbing has been relocated, so we had to adjust the installation of the ceiling tiles to match the demolition plan. Added two infill conditions at abandoned fire dampers at Grid Line 5 between F and F.9.)

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1.35 DRAWING AF4.0 DEMO ROOF PLAN - BLDG F

- A. Replace DSA approved Drawing AF4.0 in its entirety with attached revised Drawing AF4.0. (New equipment was relocated on the roof thus additional demolition of roofing material was required.) (Update Legend to reflect new hatch pattern.)

1.36 DRAWING AF4.1- NEW ROOF PLAN - BLDG F

- A. Replace DSA approved Drawing AF4.1 with attached revised Drawing AF4.1 in its entirety. (New equipment was relocated on the roof thus additional roofing material was required.) (Update Legend to reflect new hatch pattern and added new note.)

1.37 DRAWING AH4.1- NEW ROOF PLAN - BLDG H

- A. LEGEND
 - 1. Add text "INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 13/S0.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF." AFTER EXISTING TEXT "...PER 3/7.1."

1.38 DRAWING AJ3.3 - NEW CEILING PLAN - BLDG J - AREA A

- A. Replace drawing label with "NEW CEILING PLAN - BLDG J - AREA B".

1.39 DRAWING AJ4.0 - DEMO ROOF PLAN - BLDG J - AREA B

- A. Replace DSA approved Drawing AJ4.0 - DEMO ROOF PLAN - BLDG J - AREA B in its entirety with the attached revised Drawing AJ4.0 - DEMO ROOF PLAN - BLDG J - AREA A. (Drawing was mislabeled and showed Area B, not Area A. See item below, the two drawings were transposed)

1.40 DRAWING AJ4.1 - DEMO ROOF PLAN - BLDG J - AREA B

- A. Replace DSA approved Drawing AJ4.1 - DEMO ROOF PLAN - BLDG J - AREA B in its entirety with the attached revised Drawing AJ4.1 - DEMO ROOF PLAN - BLDG J - AREA B. (Drawing was showing Area A, not Area B)

1.41 DRAWING AJ4.2- NEW ROOF PLAN - BLDG J - AREA A

- A. LEGEND
 - 1. Add text "INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 13/S0.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF." AFTER EXISTING TEXT "...PER 3/7.1."

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1.42 DRAWING AJ4.3- NEW ROOF PLAN - BLDG J - AREA B

A. LEGEND

1. Add text "INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 13/S0.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF." AFTER EXISTING TEXT "...PER 3/7.1."

1.43 DRAWING 7.1- THERMAL AND MOISTURE PROTECTION

A. Replace DSA approved Drawing 7.1 in its entirety with the attached revised Drawing 7.1.

1. Added new Detail 1 (to show all potential condensation line connections required.)
2. Replaced Detail 3 in its entirety (we added graphically the roof deck and fixed some typos.)
3. Added new Detail 8.
4. Added new Detail 9.

Structural

1.44 DRAWING S0.1 - GENERAL NOTES

A. Replace DSA approved Drawing S0.1 in its entirety with the attached revised Drawing S0.1.

B. STRUCTURAL STEEL

1. Added note "CONTRACTOR SHALL VERIFY NEW BEAM LOCATIONS HAVE SUFFICIENT DISTANCE TO EXISTING CMU WALL OPENINGS PER 11/S0.2 PRIOR TO GENERATING SHOP DRAWINGS."

C. ADHESIVE ANCHORS IN CONCRETE

1. Added note "CONTRACTOR TO USE NON-DESTRUCTIVE TESTING TO VERIFY LOCATION OF EXISTING REINFORCING STEEL."

D. EXPANSION ANCHORS

1. Added note "CONTRACTOR TO USE NON-DESTRUCTIVE TESTING TO VERIFY LOCATION OF EXISTING REINFORCING STEEL."

Addendum 1
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1.45 DRAWING S0.2 - DETAILS

- A. Replace DSA approved Drawing S0.2 in its entirety with the attached revised Drawing S0.2.
- B. DETAIL 3
 - 1. Added additional detail reference for top of brace support.
- C. DETAIL 12
 - 1. Add text "SEE DETAIL 1/S0.3 FOR ALTERNATE HANGING MECH UNIT SUPPORT."
 - 2. Added dimension to center of beam.
 - 3. Added additional detail reference for top of brace support.
 - 4. Revised masonry connection detail.
- D. DETAIL 13
 - 1. Detail removed. It was a duplicate of 2/S0.3.
 - 2. Added new detail "TYPICAL ROOF INFILL FOR LIGHT GAUGE FRAMING".
- E. DETAIL 16
 - 1. Revised title to say "TYPICAL (N) BEAM TO (N) BEAM CONNECTION DETAIL".
- F. DETAIL 18
 - 1. Revised weld size to match existing.
 - 2. Revised detail reference to correct detail.
- G. DETAIL 19
 - 1. Revised title to say "TYPICAL LARGE ROOF OPENING DETAIL."
- H. DETAIL 20
 - 1. Added note "INSTALL ROOF DECKING UNDER ALL MECHANICAL UNITS."
 - 2. Added additional detail reference.
- I. DETAIL 27
 - 1. Added note "INSTALL ROOF DECKING UNDER ALL MECHANICAL UNITS."

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2. Added additional weld.
3. Added additional detail reference.

J. DETAIL 28

1. Revised max weight.
2. Added dimension.
3. Revised angle connection to Wx beam.

1.46 DRAWING S0.3 - DETAILS

A. Replace DSA approved Drawing S0.3 in its entirety with the attached revised Drawing S0.3.

B. DETAIL 1

1. Revised detail to be more complete.

C. DETAIL 5

1. Added note "(N) PENETRATIONS 1" SQ. OR SMALLER NO CLOSER THAN 12" APART THAT ARE NOT THROUGH THE DECK WEB DO NOT NEED TO BE REINFORCED."
2. Revised title "TYPICAL ROOF DECK OPENING DETAIL."

D. DETAIL 9

1. Revised detail to include (N) joist connection to sistered joist.

E. DETAIL 13

1. Added a max deck span.
2. Revised weld symbol.
3. Added note "REATTACH (E) DECK IF THE (E) PUDDLE WELDS ARE DAMAGED OR NON-EXISTENT."

1.47 DRAWING S2.1 - BUILDING A ROOF FRAMING DEMO PLAN

A. Replace DSA approved Drawing S2.1 in its entirety with the attached revised Drawing S2.1.

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B. ROOF FRAMING NOTES

1. Added notes "REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."
2. Revised "(E) ELEMENT TO BE REMOVED" TO "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

C. ROOF FRAMING PLAN

1. Revised area of demo at each mechanical unit to be removed.

1.48 DRAWING S2.2 - BUILDING A ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.2 in its entirety with the attached revised Drawing S2.2.

B. ROOF FRAMING REMODEL NOTES

1. Added notes "(N) BEAM TO (E) BEAM CONNECTION PER 21/S0.2. (N) BEAM TO (N) BEAM CONNECTION PER 16/S0.2."
2. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."

C. ROOF FRAMING REMODEL PLAN

1. Revised area of new deck to correspond with the demo plan.

1.49 DRAWING S2.3 - BUILDING B ROOF FRAMING DEMO PLAN

- A. Replace DSA approved Drawing S2.3 in its entirety with the attached revised Drawing S2.3.

B. Roof Framing Notes

1. Added notes "REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."
2. Revised "(E) ELEMENT TO BE REMOVED" TO "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

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1.50 DRAWING S2.4 - BUILDING B ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.4 in its entirety with the attached revised Drawing S2.4.
- B. ROOF FRAMING REMODEL NOTES
 - 1. Added notes "(N) BEAM TO (E) BEAM CONNECTION PER 21/S0.2. (N) BEAM TO (N) BEAM CONNECTION PER 16/S0.2."
 - 2. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."
 - 3. Added detail reference to Note 5.
 - 4. Added "(N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING." to Note 7.
 - 5. In Note 8 the detail reference has been updated.
- C. ROOF FRAMING REMODEL PLAN
 - 1. Revised area of new deck to correspond with the demo plan.
 - 2. Added detail references.

1.51 DRAWING S2.5 - BUILDING C ROOF FRAMING DEMO PLAN

- A. Replace DSA approved Drawing S2.5 in its entirety with the attached revised Drawing S2.5.
- B. ROOF FRAMING NOTES
 - 1. Added notes "REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."
 - 2. Revised "(E) ELEMENT TO BE REMOVED" to "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."
- C. DEMO HATCH LEGEND
 - 1. Revised note "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

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D. ROOF FRAMING PLAN

1. Showed locations of additional mechanical equipment.
2. Called out members supporting new openings.
3. Revised mechanical weight to indicate the "combined" weight of all the units in a row.
4. Revised detail references to match the correct detail.

1.52 DRAWING S2.6 - BUILDING C ROOF FRAMING REMODEL PLAN

A. Replace DSA approved Drawing S2.6 in its entirety with the attached revised Drawing S2.6.

B. ROOF FRAMING REMODEL NOTES

1. Added notes "(N) BEAM TO (E) BEAM CONNECTION PER 21/S0.2. (N) BEAM TO (N) BEAM CONNECTION PER 16/S0.2."
2. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."
3. Added detail reference to Note 5.
4. Added "(N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING." to Note 7.
5. In Note 8 the detail reference has been updated.

C. ROOF FRAMING REMODEL PLAN

1. Revised area of new deck to correspond with the demo plan.
2. Revised beam layout at (N) mechanical unit.

1.53 DRAWING S2.7 - BUILDING D AREA 1 ROOF FRAMING DEMO PLAN

A. Replace DSA approved Drawing S2.7 in its entirety with the attached revised Drawing S2.7.

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B. ROOF FRAMING NOTES

1. Added notes "REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."
2. Revised "(E) ELEMENT TO BE REMOVED" to "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

C. DEMO HATCH LEGEND

1. Revised note "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

D. ROOF FRAMING DEMO PLAN

1. Revised location of exhaust fan.

1.54 DRAWING S2.8 - BUILDING D AREA 2 ROOF FRAMING DEMO PLAN

- A. Replace DSA approved Drawing S2.8 in its entirety with the attached revised Drawing S2.8.

B. ROOF FRAMING NOTES

1. Added notes "REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."
2. Revised "(E) ELEMENT TO BE REMOVED" to "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

C. DEMO HATCH LEGEND

1. Revised note "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

1.55 DRAWING S2.9 - BUILDING D AREA 1 ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.9 in its entirety with the attached revised Drawing S2.9.

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B. ROOF FRAMING REMODEL NOTES

1. Added notes "(N) BEAM TO (E) BEAM CONNECTION PER 21/S0.2. (N) BEAM TO (N) BEAM CONNECTION PER 16/S0.2."
2. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."
3. Added detail reference to Note 5.
4. Added "(N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING." to Note 7.
5. In Note 8 the detail reference has been updated.

C. ROOF FRAMING REMODEL PLAN

1. Revised area of new deck to correspond with the demo plan.
2. Revised beam layout at (N) mechanical units.

1.56 DRAWING S2.10 - BUILDING D AREA 2 ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.10 in its entirety with the attached revised Drawing S2.10.

B. ROOF FRAMING REMODEL NOTES

1. Added notes "(N) BEAM TO (E) BEAM CONNECTION PER 21/S0.2. (N) BEAM TO (N) BEAM CONNECTION PER 16/S0.2."
2. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."
3. Added detail reference to Note 5.
4. Added "(N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING." to Note 7.
5. In Note 8 the detail reference has been updated.

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C. ROOF FRAMING REMODEL PLAN

1. Revised area of new deck to correspond with the demo plan.
2. Revised beam layout at (N) mechanical unit.
3. Added notes for duct penetrations

1.57 DRAWING S2.11 - BUILDING E SECOND FLOOR FRAMING PLAN

A. Replace DSA approved Drawing S2.11 in its entirety with the attached revised Drawing S2.11.

B. SECOND FLOOR FRAMING NOTES

1. Revised detail callouts for hung units.
2. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."
3. Added note "(N) PIPE PENETRATIONS MUST FOLLOW 10/S0.2."

C. SECOND FLOOR FRAMING PLAN

1. Showed locations of additional mechanical equipment.
2. Called out members supporting new openings.
3. Showed locations of (N) pipe and (N) duct penetrations.

1.58 DRAWING S2.12 - BUILDING E ROOF FRAMING DEMO PLAN

A. Replace DSA approved Drawing S2.12 in its entirety with the attached revised Drawing S2.12.

B. ROOF FRAMING NOTES

1. Added notes "EXISTING DECKING TO BE REMOVED AS REQUIRED TO REMOVE DEMO'D FRAMING AND INSTALL NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."

1.59 DRAWING S2.13 - BUILDING E ROOF FRAMING REMODEL PLAN

A. Replace DSA approved Drawing S2.13 in its entirety with the attached revised Drawing S2.13.

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B. ROOF FRAMING REMODEL NOTES

1. Revised detail reference for roof penetrations.
2. Added "(N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING." to Note 7.
3. Revised detail reference for Note 8.
4. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."
5. Added note "(N) BEAMS ARE NOT TO BE INSTALLED OVER (E) OPENINGS AS INDICATED IN DETAIL 11/S0.2."
6. Added note "(N) WALL PENETRATIONS ARE TO BE PER DETAIL 10/S0.2 AND ARE NOT TO BE UNDER (N) OR (E) BEAMS PER 11/S0.2."

C. ROOF FRAMING PLAN

1. Showed locations of additional mechanical equipment.
2. Called out members supporting new openings.
3. Showed locations of (N) pipe and (N) duct penetrations.
4. Revised mech unit locations.
5. Added new detail callouts.
6. Revised area of new deck to correspond with the demo plan.

1.60 DRAWING S2.14 - BUILDING F SECOND FLOOR FRAMING PLAN

- A. Replace DSA approved Drawing S2.14 in its entirety with the attached revised Drawing S2.14.

B. SECOND FLOOR FRAMING NOTES

1. Revised detail callouts for hung units.
2. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."
3. Added note "(N) PIPE PENETRATIONS MUST FOLLOW 10/S0.2."

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C. SECOND FLOOR FRAMING PLAN

1. Showed locations of additional mechanical equipment.
2. Called out members supporting new openings.
3. Showed locations of (N) pipe and (N) duct penetrations.

1.61 DRAWING S2.15 - BUILDING F ROOF FRAMING DEMO PLAN

A. Replace DSA approved Drawing S2.15 in its entirety with the attached revised Drawing S2.15.

B. ROOF FRAMING NOTES

1. Added notes "EXISTING DECKING TO BE REMOVED AS REQUIRED TO REMOVE DEMO'D FRAMING AND INSTALL NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."

C. DEMO HATCH LEGEND

1. Revised note "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

1.62 DRAWING S2.16 - BUILDING F ROOF FRAMING REMODEL PLAN

A. Replace DSA approved Drawing S2.16 in its entirety with the attached revised Drawing S2.16.

B. ROOF FRAMING REMODEL NOTES

1. Revised detail reference for roof penetrations.
2. Added "(N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING." to Note 7.
3. Revised detail reference for Note 8.
4. Added note "THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS."
5. Added note "(N) BEAMS ARE NOT TO BE INSTALLED OVER (E) OPENINGS AS INDICATED IN DETAIL 11/S0.2."
6. Added note "(N) WALL PENETRATIONS ARE TO BE PER DETAIL 10/S0.2 AND ARE NOT TO BE UNDER (N) OR (E) BEAMS PER 11/S0.2."

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C. ROOF FRAMING PLAN

1. Showed locations of additional mechanical equipment.
2. Called out members supporting new openings.
3. Showed locations of (N) pipe and (N) duct penetrations.
4. Revised mech unit locations.
5. Added new detail callouts.
6. Revised area of new deck to correspond with the demo plan.

1.63 DRAWING S2.17 - BUILDING H ROOF FRAMING DEMO PLAN

A. Replace DSA approved Drawing S2.17 in its entirety with the attached revised Drawing S2.17.

B. ROOF FRAMING NOTES

1. Added notes "REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."

C. DEMO HATCH LEGEND

1. Revised note "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

1.64 DRAWING S2.18 - BUILDING H ROOF FRAMING REMODEL PLAN

A. Replace DSA approved Drawing S2.18 in its entirety with the attached revised Drawing S2.18.

B. ROOF FRAMING REMODEL PLAN

1. Revised area of new deck to correspond with the demo plan.

1.65 DRAWING S2.19 - BUILDING J AREA A ROOF FRAMING DEMO PLAN

A. Replace DSA approved Drawing S2.19 in its entirety with the attached revised Drawing S2.19.

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B. ROOF FRAMING NOTES

1. Added notes "REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."

C. DEMO HATCH LEGEND

1. Revised note "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

1.66 DRAWING S2.20 - BUILDING J AREA B ROOF FRAMING DEMO PLAN

- A. Replace DSA approved Drawing S2.20 in its entirety with the attached revised Drawing S2.20.

B. ROOF FRAMING NOTES

1. Added notes "REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE."

C. DEMO HATCH LEGEND

1. Revised note "APPROX. AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING."

1.67 DRAWING S2.21 - BUILDING J AREA A ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.21 in its entirety with the attached revised Drawing S2.21.

B. ROOF FRAMING REMODEL PLAN

1. Revised area of new deck to correspond with the demo plan.

1.68 DRAWING S2.22 - BUILDING J AREA B ROOF FRAMING REMODEL PLAN

- A. Replace DSA approved Drawing S2.22 in its entirety with the attached revised Drawing S2.22.

B. ROOF FRAMING REMODEL PLAN

1. Revised area of new deck to correspond with the demo plan.
2. Called out beam size.

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3. Added detail references.

Mechanical

1.69 DRAWING MP0.2 - SCHEDULES

A. PACKAGED ROOFTOP UNIT SCHEDULE - GAS/DX.

1. Added Note 10: "PROVIDE MARINE COATING PER SPECIFICATION 23 74 11, SECTION 2.14."
2. Added text "NOTES 4, 9, AND 10" to all equipment notes.

B. SPLIT SYSTEM UNIT SCHEDULE

1. Added Note 3: "PROVIDE MARINE COATING PER SPECIFICATION 23 81 26, SECTION 2.1K."
2. Added Note 4: "COMPLETE WITH EXTERNAL CONDENSATE PUMP. PUMP POWERED BY INDOOR UNIT."
3. Added Note 5: "COMPLETE WITH INTEGRATED CONDENSATE PUMP. PUMP POWERED BY INDOOR UNIT."
4. Added Note 6: "COMPLETE WITH CONDENSATE OVERFLOW FLOAT SWITCH AND PROVIDE INDOOR UNIT SHUTDOWN UPON OVERFLOW DETECTION".
5. Added text "NOTES 2, 3, 4 AND 6" to equipment notes of FC-B1, FC-B2, FC-B4, FC-B5, and FC-B6.
6. Added text "NOTES 2, 3, 5 AND 6" to equipment notes of FC-B3.

C. ENERGY RECOVERY VENTILATOR SCHEDULE

1. Added Note 4: "PROVIDE MARINE COATING PER SPECIFICATION 23 72 00, SECTION 2.8."
2. Added text "NOTES 1, 2, 3, AND 4" to all equipment notes.

1.70 DRAWING MP0.3 - SCHEDULES

A. Replace Drawing MP0.3 in its entirety with the attached Drawing MP0.3.

B. VRF MODULAR OUTDOOR UNIT SCHEDULE

1. Added Note 7: "PROVIDE MARINE COATING PER SPECIFICATION 23 81 45 SECTION 2.4."
2. Added text "NOTES 6 AND 7" to all equipment notes.

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C. VRF INDOOR UNIT SCHEDULE

1. Change Note 3 in its entirety to: "COMPLETE WITH CONDENSATE PUMP, DIVERSITECH CP-22."
2. Added Note 7: "COMPLETE WITH CONDENSATE OVERFLOW FLOAT SWITCH AND PROVIDE INDOOR UNIT SHUTDOWN UPON OVERFLOW DETECTION".
3. Change titles of "WEIGHT" column and "OPERATING" sub-column to "OPERATING WEIGHT LBS".
4. Added Notes 3 and 7 to all equipment notes.

D. VRF PORT/FLOW SELECTOR BOX

1. Added "ELECTRICAL" column and corresponding values in the equipment schedule with following sub-columns:
 - a. VOLTAGE
 - b. PHASES
 - c. MCA
 - d. MOCP
2. Added "OPERATING WEIGHT, LBS" column. Added corresponding values to all equipment.
3. Added "WIRING /PIPING DETAIL" column. Added Detail "5/MP4.4" to all equipment.
4. Added "POWERED BY INDOOR UNIT" to all equipment notes.

1.71 DRAWING MPA2.0 - BUILDING A DEMOLITION FLOOR PLAN

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

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1.72 DRAWING MPA2.1 - BUILDING A REMODEL FLOOR PLAN

- A. Replace Drawing MPA2.1 in its entirety with the attached Drawing MPA2.1.
- B. REMODEL GENERAL NOTES
 - 1. Added Note 9: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
 - 2. Added Note 10: "FOR CONDENSATE PIPE DOWN EXTERIOR WALL, SEE DETAIL 9/MP4.4."
 - 3. Added Note 11: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."
- C. BUILDING A REMODEL FLOOR PLAN
 - 1. Reroute the main supply duct of AC-A10.

1.73 DRAWING MPA3.0 - BUILDING A DEMOLITION ROOF PLAN

- A. DEMOLITION GENERAL NOTES
 - 1. Added Note 1: "DEMOLISH EXISTING MAKE-UP AIR UNITS, CURBS, DUCTWORK, GAS PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

1.74 DRAWING MPB2.0 - BUILDING B DEMOLITION FLOOR PLAN

- A. DEMOLITION GENERAL NOTES
 - 1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
 - 2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
 - 3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.75 DRAWING MPB2.1 - BUILDING B REMODEL FLOOR PLAN

- A. REMODEL GENERAL NOTES
 - 1. Added Note 13: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
 - 2. Added Note 14: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

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1.76 DRAWING MPB3.0 - BUILDING B DEMOLITION ROOF PLAN

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING MAKE-UP AIR UNITS, CURBS, DUCTWORK, GAS PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

1.77 DRAWING MPC2.0 - BUILDING C DEMOLITION FLOOR PLAN

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.78 DRAWING MPC2.1 - BUILDING C REMODEL FLOOR PLAN

- A. Replace Drawing MPC2.1 in its entirety with the attached Drawing MPC2.1.

B. REMODEL GENERAL NOTES

1. Added Note 9: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
2. Added Note 10: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

C. BUILDING C REMODEL FIRST FLOOR PLAN

1. Revised AC-C6 return duct size.

1.79 DRAWING MPC3.0 - BUILDING C DEMOLITION ROOF PLAN

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING MAKE-UP AIR UNITS, CURBS, DUCTWORK, GAS PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

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1.80 DRAWING MPD2.0 - BUILDING D DEMOLITION FLOOR PLAN - AREA 1

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.81 DRAWING MPD2.1 - BUILDING D DEMOLITION FLOOR PLAN - AREA 2

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.82 DRAWING MPD2.2 - BUILDING D REMODEL FLOOR PLAN - AREA 1

A. REMODEL GENERAL NOTES

1. Added Note 1: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
2. Added Note 2: "PAINT EXPOSED DUCT AND PIPING TO MATCH EXISTING TRUSSES AND SURROUNDING AREA."
3. Added Note 3: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

B. BUILDING D REMODEL FLOOR PLAN - AREA 1

1. Delete "(N) DRY WELL" and "OFFSET CONDENSATE TO WALL, INDIRECT TO DRY WELL PER DETAIL 6/MP4.4" by the Northern gym entrance.
2. Revised cross-section "1/MP6.1" to the middle of gymnasium.

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1.83 DRAWING MPD2.3 - BUILDING D REMODEL FLOOR PLAN - AREA 2

- A. Replace Drawing MPD2.3 in its entirety with the attached MPD2.3.
- B. REMODEL GENERAL NOTES
 - 1. Added Note 9: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
- C. BUILDING D REMODEL FLOOR PLAN - AREA 2
 - 1. Relocate the supply duct of AC-D9.
 - 2. Revised return duct size of AC-D11.

1.84 DRAWING MPD3.0 - BUILDING D DEMOLITION ROOF PLAN - AREA 1

- A. DEMOLITION GENERAL NOTES
 - 1. Added Note 1: "DEMOLISH EXISTING MAKE-UP AIR UNITS, CURBS, DUCTWORK, GAS PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."
 - 2. Added Note 2: "DEMOLISH EXISTING EXHAUST FANS, DUCTWORK, SUPPORTS, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

1.85 DRAWING MPD3.1 - BUILDING D DEMOLITION ROOF PLAN - AREA 2

- A. DEMOLITION GENERAL NOTES
 - 1. Added Note 1: "DEMOLISH EXISTING MAKE-UP AIR UNITS, CURBS, DUCTWORK, GAS PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."
 - 2. Added Note 2: "DEMOLISH EXISTING EXHAUST FANS, DUCTWORK, SUPPORTS, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

1.86 DRAWING MPE2.0 - BUILDING E DEMOLITION FIRST FLOOR PLAN

- A. DEMOLITION GENERAL NOTES
 - 1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
 - 2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."

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3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.87 DRAWING MPE2.1 - BUILDING E DEMOLITION SECOND FLOOR PLAN

- A. Replace Drawing MPE2.1 in its entirety with the attached Drawing MPE2.1.
- B. DEMOLITION GENERAL NOTES
 1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
 2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
 3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."
- C. BUILDING E DEMOLITION SECOND FLOOR PLAN
 1. EXTEND DEMOLITION OF OA DUCT SERVING LIFE SCIENCE CLASSROOM E220.

1.88 DRAWING MPE2.2 - BUILDING E REMODEL FIRST FLOOR PLAN

- A. REMODEL GENERAL NOTES
 1. Added Note 13: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
 2. Added Note 14: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.89 DRAWING MPE2.3 - BUILDING E REMODEL PIPING FIRST FLOOR PLAN

- A. Replace Drawing MPE2.3 in its entirety with the attached Drawing MPE2.3.
- B. BUILDING E REMODEL PIPING FIRST FLOOR PLAN
 1. Reroute refrigerant piping that is going to FC-E8 from FS-E8.
 2. Relocate refrigerant pipe drops and reroute refrigerant piping for FC-E1 and FC-E2.
 3. Reroute refrigerant and condensate piping for FC-E3. Relocate FS-E3.
 4. Reroute refrigerant and condensate piping for FC-E6. Relocate FS-E6.
 5. Reroute refrigerant and condensate piping for FC-E7. Relocate FS-E7.

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6. Reroute refrigerant and condensate piping for FC-E9 and FC-E10. Relocated FS-E9 and FS-E10.
7. Reroute refrigerant and condensate piping for FC-E12 through FC-E15. Relocated FS-E12 thru FS-E15.

1.90 DRAWING MPE2.4 - BUILDING E REMODEL SECOND FLOOR PLAN

- A. Replace Drawing MPE2.4 in its entirety with the attached MPE2.4
- B. REMODEL GENERAL NOTES
 1. Added Note 13: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
- C. BUILDING E REMODEL PIPING SECOND FLOOR PLAN
 1. Modified the return ductwork of FC-F23.
 2. Modified the return ductwork of FC-F29.

1.91 DRAWING MPE2.5 - BUILDING E REMODEL PIPING SECOND FLOOR PLAN

- A. Replace Drawing MPE2.5 in its entirety with the attached MPE2.5.
- B. BUILDING E REMODEL PIPING SECOND FLOOR PLAN
 1. Rerouted refrigerant and condensate piping for FC-E17 thru FC-E23. Relocated FS-E17 thru FS-E23.
 2. Rerouted refrigerant and condensate piping for FC-E25. Relocate FS-E25.
 3. Rerouted refrigerant and condensate piping for FC-E26 and FC-E27. Relocated FS-E26 through FS-E27.
 4. Rerouted refrigerant and condensate piping for FC-E28 thru FC-E30. Relocated FS-E28 through FS-E30.

1.92 DRAWING MPE3.0 - BUILDING E DEMOLITION ROOF PLAN

- A. DEMOLITION GENERAL NOTES
 1. Added Note 1: "DEMOLISH EXISTING AIR HANDLING UNITS, CURBS, DUCTWORK, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

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2. Added Note 2: "DEMOLISH EXISTING BOILER, TANKS, PUMPS, PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING ROOF."

1.93 DRAWING MPE3.1 - BUILDING E REMODEL ROOF PLAN

- A. Replace Drawing MPE3.1 in its entirety with the attached MPE3.1
- B. BUILDING E REMODEL ROOF PLAN
 1. Revised location of OU-E2, OU-E3, and OU-E4 and associated refrigerant piping.

1.94 DRAWING MPF2.0 - BUILDING F DEMOLITION FIRST FLOOR PLAN

- A. DEMOLITION GENERAL NOTES
 1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
 2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
 3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.95 DRAWING MPF2.1 - BUILDING F DEMOLITION SECOND FLOOR PLAN

- A. Replace Drawing MPF2.1 in its entirety with the attached MPF2.1.
- B. DEMOLITION GENERAL NOTES
 1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
 2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
 3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."
- C. BUILDING F DEMOLITION SECOND FLOOR PLAN
 1. Modified existing exhaust fan ductworks in Restrooms F221 and F222 to match existing conditions.

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1.96 DRAWING MPF2.2 - BUILDING F REMODEL FIRST FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 13: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
2. Added Note 14: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.97 DRAWING MPF2.3 - BUILDING F REMODEL PIPING FIRST FLOOR PLAN

A. Replace Drawing MPF2.3 in its entirety with the attached MPF2.3.

B. BUILDING F REMODEL PIPING FIRST FLOOR PLAN

1. Reroute refrigerant and condensate piping for FC-F1 thru FC-F8. Relocate FS-F1 through FS-F8.
2. Reroute refrigerant and condensate piping for FC-F10 thru FC-F16B. Relocate FS-F10 thru FS-F16B.
3. Relocate refrigerant piping drops.

1.98 DRAWING MPF2.4 - BUILDING F REMODEL SECOND FLOOR PLAN

A. Replace Drawing MPF2.4 in its entirety with the attached MPF2.4.

B. REMODEL GENERAL NOTES

1. Added Note 13: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."

C. BUILDING F REMODEL SECOND FLOOR PLAN

1. Relocate FC-F26 and associated ductwork.
2. Modified existing exhaust fan ductworks in Restrooms F221 and F222 to match existing conditions.
3. Modified return ductwork of FC-F28.

1.99 DRAWING MPF2.5 - BUILDING F REMODEL PIPING SECOND FLOOR PLAN

A. Replace Drawing MPF2.5 in its entirety with the attached MPF2.5.

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B. BUILDING F REMODEL PIPING SECOND FLOOR PLAN

1. Rerouted refrigerant and condensate piping for FC-F17 and FC-F18. Relocate FS-F17 and FS-F18.
2. Rerouted refrigerant and condensate piping for FC-F20. Relocated FS-F20.
3. Rerouted refrigerant and condensate piping for FC-F23. Relocated FS-F23.
4. Rerouted refrigerant and condensate piping for FC-F24.
5. Rerouted refrigerant and condensate piping for FC-F26 and FC-F33. Relocated FS-F26 and FS-F33.
6. Relocated refrigerant piping drop.

1.100 DRAWING MPF3.0 - BUILDING F DEMOLITION ROOF PLAN

A. Replace Drawing MPF3.0 in its entirety with the attached Drawing MPF3.0.

B. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING AIR HANDLING UNITS, CURBS, DUCTWORK, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."
2. Added Note 2: "DEMOLISH EXISTING BOILER, TANKS, PUMPS, PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING ROOF."

C. BUILDING F DEMOLITION ROOF PLAN

1. Relocate existing exhaust air vent to match existing construction.

1.101 DRAWING MPF3.1 - BUILDING F REMODEL ROOF PLAN

A. Replace Drawing MPF3.1 in its entirety with the attached Drawing MPF3.1.

B. BUILDING F DEMOLITION ROOF PLAN

1. Relocate OU-F3 and OU-F4, associated refrigerant piping and refrigerant piping drops.
2. Relocate existing exhaust air vent to match existing construction.

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1.102 DRAWING MPH2.0 - BUILDING H DEMOLITION FLOOR PLAN

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.103 DRAWING MPH2.1 - BUILDING H REMODEL FLOOR PLAN

A. REMODEL GENERAL NOTES

1. Added Note 9: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
2. Added Note 10: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.104 DRAWING MPH3.0 - BUILDING H DEMOLITION ROOF PLAN

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING MAKE-UP AIR UNITS, CURBS, DUCTWORK, GAS PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

1.105 DRAWING MPJ2.0 - BUILDING J DEMOLITION FLOOR PLAN - AREA A

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."
2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.106 DRAWING MPJ2.1 - BUILDING J DEMOLITION FLOOR PLAN - AREA B

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING TEMPERATURE CONTROL DEVICES AND WIRING. REFER TO ARCHITECTURAL FOR PATCHING WALL/CEILING."

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2. Added Note 2: "DEMOLISH EXISTING DUCTWORK AS SHOWN, SUPPORTS, AND RELATED APPURTENANCES."
3. Added Note 3: "DEMOLISH EXISTING PIPING AS SHOWN, VALVES, SUPPORTS, AND RELATED APPURTENANCES."

1.107 DRAWING MPJ2.2 - BUILDING J REMODEL FLOOR PLAN - AREA A

A. REMODEL GENERAL NOTES

1. Added Note 9: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
2. Added Note 10: "FOR CONDENSATE PIPE DOWN EXTERIOR WALL, SEE DETAIL 9/MP4.4."

1.108 DRAWING MPJ2.3 - BUILDING J REMODEL FLOOR PLAN - AREA B

A. REMODEL GENERAL NOTES

1. Added Note 9: "INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING, REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED."
2. Added Note 10: "PAINT NEW EXPOSED DUCTWORK AND PIPING TO MATCH EXISTING DUCTWORK, PIPING, AND SURROUNDING AREA."
3. Added Note 11: "FOR CONDENSATE PIPE DOWN EXTERIOR WALL, SEE DETAIL 9/MP4.4."
4. Added Note 12: "PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED."

1.109 DRAWING MPJ3.0 - BUILDING J DEMOLITION ROOF PLAN - AREA A

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING MAKE-UP AIR UNITS, CURBS, DUCTWORK, GAS PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

1.110 DRAWING MPJ3.1 - BUILDING J DEMOLITION ROOF PLAN - AREA B

A. DEMOLITION GENERAL NOTES

1. Added Note 1: "DEMOLISH EXISTING MAKE-UP AIR UNITS, CURBS, DUCTWORK, GAS PIPING, AND RELATED APPURTENANCES. REFER TO ARCHITECTURAL AND STRUCTURAL FOR PATCHING OF ROOF/WALL STRUCTURE."

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1.111 DRAWING MP4.1 - DETAILS

A. DETAIL 7

1. Revised "SINGLE PLY ROOF (SEE ARCH'L)" TO "BUILT-UP ROOFING (SEE ARCH'L)".

1.112 DRAWING MP4.4 - DETAILS

A. Replace Drawing MP4.4 in its entirety with the attached MP4.4.

B. DETAIL 3

1. Revised split system control wiring diagram.

C. DETAIL 4

1. Added condensate pump and condensate pump power requirement to the diagram of "VRF WIRING DIAGRAM".

D. DETAIL 5

1. Revised title to "FLOW SELECTOR CONTROLLER REF. PIPING AND WIRING DIAGRAM".
2. Revised control diagram of "FLOW SELECTOR CONTROLLER REF. PIPING AND WIRING DIAGRAM".

E. DETAIL 9

1. Added "CONDENSATE PIPE DOWN WALL" detail in entirety.

F. DETAIL 10

1. Added "PIPE WALL SUPPORT" detail in entirety.

1.113 DRAWING MP6.1 - SECTIONS

A. Replace Drawing MP6.1 in its entirety with the attached MP6.1.

B. BLDG SECTION D

1. Revised cross-sectional view. (Previous view was incorrect)

Electrical

1.114 DRAWING E0.2 - SINGLE LINE DIAGRAM

A. Replace Drawing E0.2 in its entirety with the attached E0.2.

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B. SINGLE LINE DIAGRAM

1. Showing existing Transformer TR-7, existing DPF and New FPM panelboard.
2. Showing existing Transformer TR-6, existing DPE and New EPM panelboard.

1.115 DRAWING E0.3 - PANEL SCHEDULES

A. Replace Drawing E0.3 in its entirety with the attached E0.3.

B. PANEL SCHEDULE

1. Added Panel Schedules ELM and EPM.

1.116 DRAWING E0.4 - PANEL SCHEDULES

A. Replace Drawing E0.4 in its entirety with the attached E0.4.

B. PANEL SCHEDULE

1. Added Panel Schedules FLM and FPM.

1.117 DRAWING EA2.1 - BLDG A REMODEL FLOOR PLAN

A. Replace Drawing EA2.1 in its entirety with the attached EA2.1.

B. KEYED NOTES

1. Added Keyed Notes 1 and 2 pertaining to removal and re-installation of acoustical ceiling tiles.

1.118 DRAWING EA3.1 - BLDG A REMODEL ROOF PLAN

A. Replace Drawing EA3.1 in its entirety with the attached EA3.1.

B. KEYED NOTES

1. Added Keyed Notes 2 and 3.

C. GENERAL NOTES

1. Added General Notes 1, 2 and 3.

D. CONDUIT ROOF PENETRATION DETAIL.

1. Added conduit roof penetration detail.

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1.119 DRAWING EB2.1 - BLDG B REMODEL FLOOR PLAN

- A. Replace Drawing EB2.1 in its entirety with the attached EB2.1.
- B. KEYED NOTES
 - 1. Added Keyed Notes 1, 2, 3, 4, 5, 6, 7 and 9 pertaining to removal and re-installation of acoustical ceiling tiles.

1.120 DRAWING EB3.1 - BLDG B REMODEL ROOF PLAN

- A. Replace Drawing EB3.1 in its entirety with the attached EB3.1.
- B. KEYED NOTES
 - 1. Added Keyed Notes 1, 2, and 3.
- C. GENERAL NOTES
 - 1. Added General Notes 1, 2, 3 and 4.
- D. ELECTRICAL PANEL MOUNTING DETAIL.
 - 1. Added electrical panel mounting detail.

1.121 DRAWING EC2.1 - BLDG C REMODEL FLOOR PLAN

- A. Replace Drawing EC2.1 in its entirety with the attached EC2.1.
- B. KEYED NOTES
 - 1. Added Keyed Notes 1, 2, 3, and 4 pertaining to removal and re-installation of acoustical ceiling tiles.

1.122 DRAWING EC3.1 - BLDG C REMODEL ROOF PLAN

- A. Replace Drawing EC3.1 in its entirety with the attached EC3.1.
- B. KEYED NOTES
 - 1. Added Keyed Notes 1, 2 and 3.
- C. GENERAL NOTES
 - 1. Added General Notes 1, 2, 3 and 4.

1.123 DRAWING ED2.2 - BLDG D REMODEL FLOOR PLAN AREA 1

- A. Replace Drawing ED2.2 in its entirety with the attached ED2.2

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B. KEYED NOTES

1. Added Keyed Notes 1, 2, and 3 pertaining to removal and re-installation of acoustical ceiling tiles.
2. Re-located conduits to make way for new duct work on west side of Gym.

1.124 DRAWING ED2.3 - BLDG D REMODEL FLOOR PLAN AREA 2

A. Replace Drawing ED2.3 in its entirety with the attached ED2.3.

B. KEYED NOTES

1. Added Keyed Notes 1, 2, and 3 pertaining to removal and re-installation of acoustical ceiling tiles.

1.125 DRAWING ED3.2 - BLDG D REMODEL ROOF PLAN - AREA 1

A. Replace Drawing ED3.2 in its entirety with the attached ED3.2.

B. KEYED NOTES

1. Added Keyed Notes 1, 2, 3, and 4.

C. GENERAL NOTES

1. Added General Notes 1, 2, 3, and 4.

1.126 DRAWING EE2.2 - BLDG E REMODEL 1ST FLOOR PLAN

A. Replace Drawing EE2.2 in its entirety with the attached EE2.2.

B. KEYED NOTES

1. Added Keyed Notes 1, 2, 3, 4, 5, 6, 7, and 8 pertaining to removal and re-installation of acoustical ceiling tiles.

1.127 DRAWING EE2.3 - BLDG E REMODEL 2ND FLOOR PLAN

A. Replace Drawing EE2.3 in its entirety with the attached EE2.3.

B. KEYED NOTES

1. Added Keyed Notes 1, 2, 3, 4, 5, 6, 7, and 8 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.128 DRAWING EE3.1 - BLDG D REMODEL ROOF PLAN

- A. Replace Drawing EE3.1 in its entirety with the attached EE3.1.
- B. KEYED NOTE
 - 1. Added Keyed Note 1.
- C. GENERAL NOTES
 - 1. Added General Notes 1, 2, and 3.

1.129 DRAWING EF2.2 - BLDG F REMODEL 1ST FLOOR PLAN

- A. Replace Drawing EF2.2 in its entirety with the attached EF2.2.
- B. KEYED NOTES
 - 1. Added Keyed Notes 1, 2, 3, 4, 5, 6, and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.130 DRAWING EF2.3 - BLDG F REMODEL 2ND FLOOR PLAN

- A. Replace Drawing EF2.3 in its entirety with the attached EF2.3.
- B. KEYED NOTES
 - 1. Added Keyed Notes 1, 2, 3, 4, 5, 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.131 DRAWING EF3.1 - BLDG F REMODEL ROOF PLAN

- A. Replace Drawing EF3.1 in its entirety with the attached EF3.1.
- B. KEYED NOTE
 - 1. Added Keyed Note 1.
- C. GENERAL NOTES
 - 1. Added General Notes 1, 2, and 3.
- D. BLDG F REMODEL ROOF PLAN.
 - 1. Added wire size to Module 3.

1.132 DRAWING EH2.2 - BLDG F REMODEL 2ND FLOOR PLAN

- A. Replace Drawing EH2.2 in its entirety with the attached EH2.2.

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B. KEYED NOTES

1. Added Keyed Notes 1, 2, 3, 4, and 5 pertaining to removal and re-installation of acoustical ceiling tiles.

1.133 DRAWING EH3.1 - BLDG F REMODEL ROOF PLAN

- A. Replace Drawing EH3.1 in its entirety with the attached EH3.1.

B. KEYED NOTE

1. Added Keyed Note 2.

C. GENERAL NOTES

1. Added General Notes 1, 2, and 3.

1.134 DRAWING EJ2.2 - BLDG J REMODEL FLOOR PLAN AREA A

- A. Replace Drawing EJ2.2 in its entirety with the attached EJ2.2.

B. KEYED NOTES

1. Added Keyed Notes 1, 2, and 3 pertaining to removal and re-installation of acoustical ceiling tiles.

1.135 DRAWING EJ2.3 - BLDG J REMODEL FLOOR PLAN AREA B

- A. Replace Drawing EJ2.3 in its entirety with the attached EJ2.3.

B. KEYED NOTES

1. Added Keyed Notes 1, 2, 3, and 4 pertaining to removal and re-installation of acoustical ceiling tiles.

1.136 DRAWING EJ3.2 - BLDG J REMODEL ROOF PLAN - AREA A

- A. Replace Drawing EJ3.2 in its entirety with the attached EJ3.2.

B. KEYED NOTE

1. Added Keyed Note 2.

C. GENERAL NOTES

1. Added General Notes 1, 2, and 3.

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1.137 DRAWING EJ3.3 - BLDG J REMODEL ROOF PLAN - AREA A

- A. Replace Drawing EJ3.3 in its entirety with the attached EJ3.3.
- B. KEYED NOTES
 - 1. Added Keyed Notes 1 and 2.
- C. GENERAL NOTES
 - 1. Added General Notes 1, 2, and 3.

Fire

1.138 DRAWING FA0.1 - COVER SHEET

- A. Replace Drawing FA0.1 in its entirety with the attached FA0.1.
- B. FIRE ALARM SYMBOL LIST
 - 1. Revised CO detector manufacturer, part number and CSFM listing.

1.139 DRAWING FA0.2 - CALCUALTIONS AND RISER DIAGRAMS

- A. Replace Drawing FA0.2 in its entirety with the attached FA0.2.
- B. FA CALCULATIONS
 - 1. Revised and expanded FA Calculations

1.140 DRAWING FA1.1 - SITE PLAN

- A. Replace Drawing FA1.1 in its entirety with the attached FA1.1.
- B. KEYED NOTES
 - 1. Added Keyed Note 3.
- C. SITE PLAN
 - 1. Added site plan conduit routing.

1.141 DRAWING FAA2.1 - BLDG A REMODEL FLOOR PLAN

- A. Replace Drawing FAA2.1 in its entirety with the attached FAA2.1.
- B. KEYED NOTES
 - 1. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.142 DRAWING FAB2.1 - BLDG B REMODEL FLOOR PLAN

- A. Replace Drawing FAB2.1 in its entirety with the attached FAB2.1.
- B. KEYED NOTES
 - 1. Added Keyed Notes 7 and 8 pertaining to removal and re-installation of acoustical ceiling tiles.

1.143 DRAWING FAC2.1 - BLDG C REMODEL FLOOR PLAN

- A. Replace Drawing FAC2.1 in its entirety with the attached FAC2.1.
- B. KEYED NOTE
 - 1. Added Keyed Note 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.144 DRAWING FAD2.1 - BLDG D REMODEL FLOOR PLAN AREA 1

- A. Replace Drawing FAD2.1 in its entirety with the attached FAD2.1.
- B. KEYED NOTE
 - 1. Added Keyed Note 6 pertaining to removal and re-installation of acoustical ceiling tiles.

1.145 DRAWING FAD2.2 - BLDG D REMODEL FLOOR PLAN AREA 2

- A. Replace Drawing FAD2.2 in its entirety with the attached FAD2.2.
- B. KEYED NOTE
 - 1. Added Keyed Note 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.146 DRAWING FAE2.1 - BLDG E REMODEL 1ST FLOOR PLAN

- A. Replace Drawing FAE2.1 in its entirety with the attached FAE2.1.
- B. KEYED NOTES
 - 1. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

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1.147 DRAWING FAE2.2 - BLDG E REMODEL 2ND FLOOR PLAN

- A. Replace Drawing FAE2.2 in its entirety with the attached FAE2.2.
- B. KEYED NOTES
 - 1. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.148 DRAWING FAF2.1 - BLDG F REMODEL 1ST FLOOR PLAN

- A. Replace Drawing FAF2.1 in its entirety with the attached FAF2.1.
- B. KEYED NOTES
 - 1. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.149 DRAWING FAF2.2 - BLDG F REMODEL 2ND FLOOR PLAN

- A. Replace Drawing FAF2.2 in its entirety with the attached FAF2.2.
- B. KEYED NOTES
 - 1. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.150 DRAWING FAH2.1 - BLDG H REMODEL AREA 1 FLOOR PLAN

- A. Replace Drawing FAH2.1 in its entirety with the attached FAH2.1
- B. KEYED NOTES
 - 1. Added Keyed Notes 5 and 6 pertaining to removal and re-installation of acoustical ceiling tiles.

1.151 DRAWING FAH2.2 - BLDG H REMODEL AREA 2 FLOOR PLAN

- A. Replace Drawing FAH2.2 in its entirety with the attached FAH2.2.
- B. KEYED NOTES
 - 1. Added Keyed Notes 2 and 3 pertaining to removal and re-installation of acoustical ceiling tiles.

1.152 DRAWING FAJ2.1 - BLDG J REMODEL FLOOR PLAN AREA A

- A. Replace Drawing FAJ2.1 in its entirety with the attached FAJ2.1.

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B. KEYED NOTES

1. Added Keyed Notes 3, 4 and 5 pertaining to removal and re-installation of acoustical ceiling tiles.

1.153 DRAWING FAJ2.2 - BLDG J REMODEL FLOOR PLAN AREA B

- A. Replace Drawing FAJ2.2 in its entirety with the attached FAJ2.2.

B. KEYED NOTES

1. Added Keyed Notes 6 and 7 pertaining to removal and re-installation of acoustical ceiling tiles.

1.154 DRAWING FA3.1 - DETAILS

- A. Replace Drawing FA3.1 in its entirety with the attached FA3.1.

- B. Added Detail 5.

END OF ADDENDUM 1

Submitted by,



MARK GRAHAM
Architect, AIA
LEED™ GA
NOMA
Principal



MG:SJ:br/P41917100x1-add

Attachments: Section 01 11 00 - Summary of Work
Section 23 72 00 - Energy Recovery Devices
Section 23 74 11 - Packaged Rooftop Air Conditioning Units
Section 23 81 26 - Split System Air Conditioning Units
Section 23 81 45 - Variable Refrigerant Flow Heat Pumps
Drawings Full Sheets: AE3.0, AE3.1, AE3.2, AE3.3, AE4.0, AE4.1, AF3.0, AF3.1, AF3.2, AF3.3, AF4.0, AF4.1, AJ4.0, AJ4.1, 7.1, S0.1, S0.2, S0.3, S2.1, S2.2, S2.3, S2.4, S2.5, S2.6, S2.7, S2.8, S2.9, S2.10, S2.11, S2.12, S2.13, S2.14, S2.15, S2.16, S2.17, S2.18, S2.19, S2.20, S2.21, S2.22, MP0.3, MPA2.1, MPC2.1, MPD2.3, MPE2.1, MPE2.3, MPE2.4, MPE2.5, MPE3.1, MPF2.1, MPF2.3, MPF2.4, MPF2.5, MPF3.0, MPF3.1, MP4.4, MP6.1, E0.2, E0.3, E0.4, EA2.1, EA3.1, EB2.1, EB3.1, EC2.1, EC3.1, ED2.2, ED2.3, ED3.2, EE2.2, EE2.3, EE3.1, EF2.2, EF2.3, EF3.1, EH2.2, EH3.1, EJ2.2, EJ2.3, EJ3.2, EJ3.3, FA0.1, FA0.2, FA1.1, FAA2.1, FAB2.1, FAC2.1, FAD2.1, FAD2.2, FAE2.1, FAE2.2, FAF2.1, FAF2.2, FAH2.1, FAH2.2, FAJ2.1, FAJ2.2, FA3.1

SECTION 01 11 00

SUMMARY OF WORK

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Work Included.
- B. Work under separate contracts.
- C. Work by Owner.
- D. Owner furnished products.
- E. Contractor use of site and premises.
- F. Work Sequence.
- G. Owner occupancy.
- H. Work restrictions.

1.2 WORK INCLUDED

- A. Work of this Contract comprises general construction including remodeling and demolition.
- B. The project is an addition of HVAC units to an existing campus. Old heating and ventilation units will be removed. Demolition of existing mechanical items including boilers, piping, Reznor units, roofing, roof curbs, ceilings, walls, floors, and all items as shown in the contract documents shall be part of this project. The below list is not all inclusive but it provides an overview of this project.
- C. Building A: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Remove two existing skylight/clerestory assemblies and modify for two package units. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown.
- D. Building B: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing.
- E. Building C: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Remove portion of existing metal screen wall. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing.
- F. Building D: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Rework existing electrical conduits and panels as shown. Relocate light fixtures in gym as needed to miss new ducts. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing.

- G. Buildings E and F: Remove existing heating and ventilation units on roof and replace with new curbs and Variable Refrigerant Flow condensing units. Remove boiler from roof. Remove all existing supports on parapet walls, and patch back walls with similar material. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Remove existing boiler piping system throughout. Add new VRF piping and fan coils to all spaces shown. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing at floor and roof locations.
 - H. Building G: No scope.
 - I. Building H: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Remove partial metal screen walls. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing.
 - J. Building J: Remove existing heating and ventilation units on roof and replace with new curbs and HVAC package units. Rework existing electrical conduits and panels as shown. Add new condensate lines down walls and drain into existing sinks. Modify ductwork and opening ceilings as needed. Add new structural members to support new units. Patch back all roofs. Add new thermostats and devices to fire alarm as shown. Patch back fire proofing.
 - K. General notes: All roofs shall receive new convenience outlets, hose bibs as shown on plans. Buildings B-J will require spray-on fire proofing of existing primary members, roof decking, and floor beams only at locations where patching touch up is required. Painting will be required of all new exposed duct work, exposed electrical conduits, modified drywall openings, access panels, and all other areas that get affected by modernization work. Reworking of gypsum board, cementitious backer board, ceramic and porcelain tile, FRP, and any other material will be required when running condensate lines down the walls. Similar for new thermostats. All pipe and conduit penetrations through floors, walls, roofs shall be fire protected with minimum 2 hour rated fire safing/caulking products. The project is located at 600 East Gonzales Road, Oxnard, CA 93030 for Oxnard Union High School District, Owner.
 - L. Construct the work under a single lump sum contract.
- 1.3 WORK UNDER SEPARATE CONTRACTS
- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract. Coordinate the Work of this Contract with work performed under separate contracts.
- 1.4 OWNER FURNISHED PRODUCTS
- A. Items noted "OFCl" (Owner-Furnished Contractor Installed) will be furnished by Owner and installed by Contractor.
 - B. Items noted "OFOI" (Owner-Furnished Owner Installed) will be furnished by Owner and installed by Owner.
 - C. Owner's Responsibilities:
 - 1. Arrange for and deliver Owner reviewed Shop Drawings, Product Data, and Samples to Contractor.
 - 2. Arrange and pay for Product delivery to site.
 - 3. On delivery, inspect Products jointly with Contractor.
 - 4. Submit claims for transportation damage and replace damaged, defective, or deficient items.

5. Arrange for manufacturer's warranties, inspections, and service.

D. Contractor's Responsibilities:

1. Review Owner reviewed Shop Drawings, Product Data, and Samples.
2. Receive and unload Products at site; inspect for completeness or damage, jointly with Owner.
3. Handle, store, install and finish Products.
4. Repair or replace items damaged after receipt.

1.5 CONTRACTOR USE OF SITE AND PREMISES

A. Limit use of site and premises to allow:

1. Owner occupancy.
2. Use of site and premises by students and teachers.

1.6 WORK SEQUENCE

A. See the attached sheet "work sequence" on Page 5 of this section for phasing of this project.

1.7 OWNER OCCUPANCY

- A. Full Owner Occupancy: Owner will occupy entire site and premises during entire construction period for conduct of his normal operation.
- B. Owner Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed areas of building, before Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and partial occupancy shall not constitute acceptance of the total Work.
- C. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied before Owner occupancy.
- D. Before partial Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of building.
- E. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of building.
- F. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage.
- G. Perform the Work so as not to interfere with Owner's day-to-day operations.
- H. Maintain existing exits, unless otherwise indicated.
- I. Provide not less than 72 hours notice to Owner of activities that will affect Owner's operations.

1.8 WORK RESTRICTIONS

- A. On-Site Work Hours: Work shall be generally performed during normal business working hours, Monday through Friday, except as otherwise indicated or required to conform to construction schedule and labor codes.
 1. Weekend Hours: 7:00 a.m. - 11 p.m.

2. Early Morning Hours: 5:00 a.m. - 7:30 a.m.
 3. Hours for Utility Shutdowns: Verify with Owner.
 4. Hours for Noisy Operations: Verify with Owner.
- B. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted to do so and then only after arranging to provide temporary utility services according to requirements indicated.
1. Notify Architect not less than 5 days in advance of proposed utility interruptions. Do not proceed with utility interruptions without Architect's permission.
- 1.9 See attached photos of existing roofs and interiors photos for areas that were not accessible during the job walk. See Pages 6-28 of this section.

2. PART 2 PRODUCTS

Not Used

3. PART 3 EXECUTION

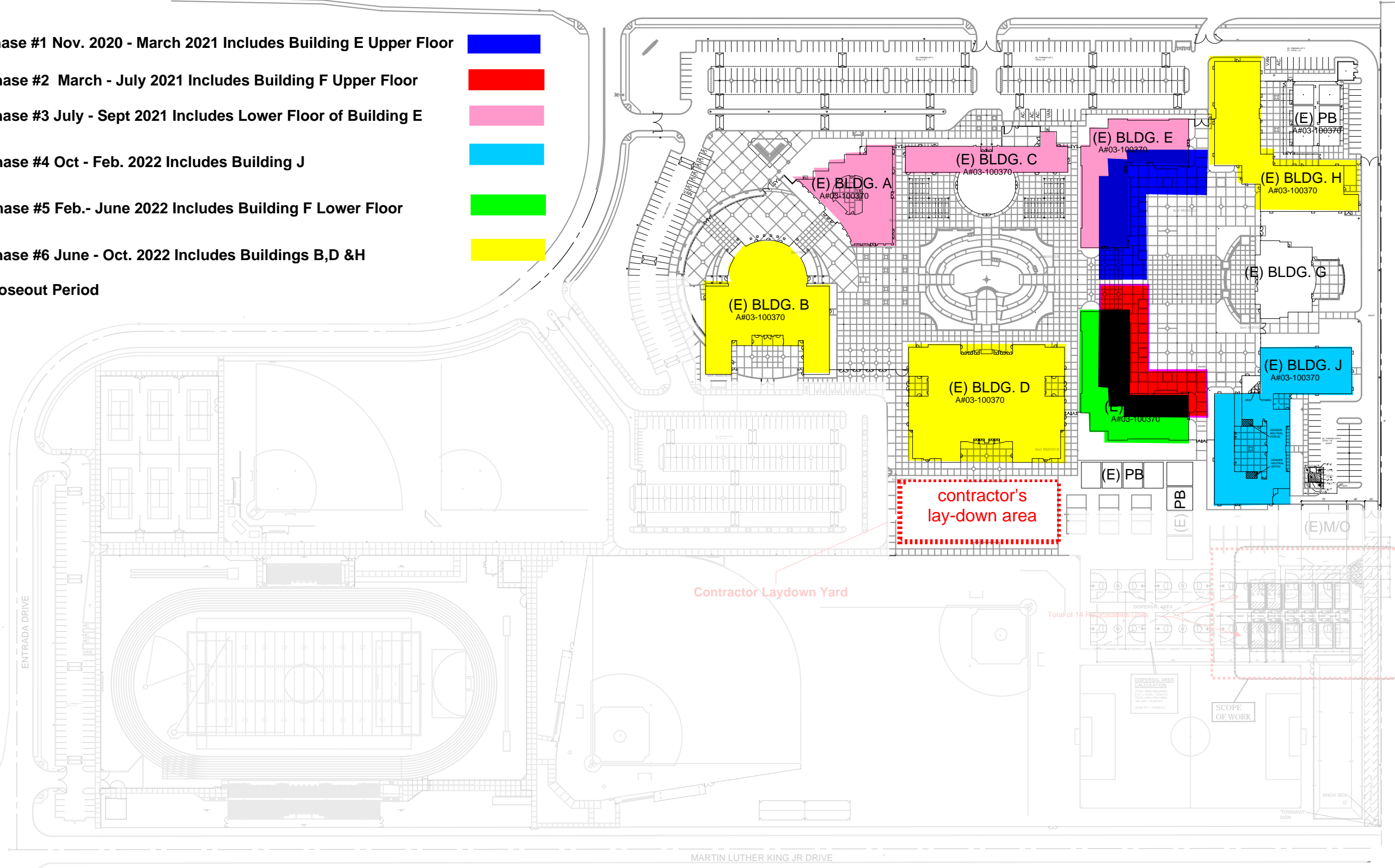
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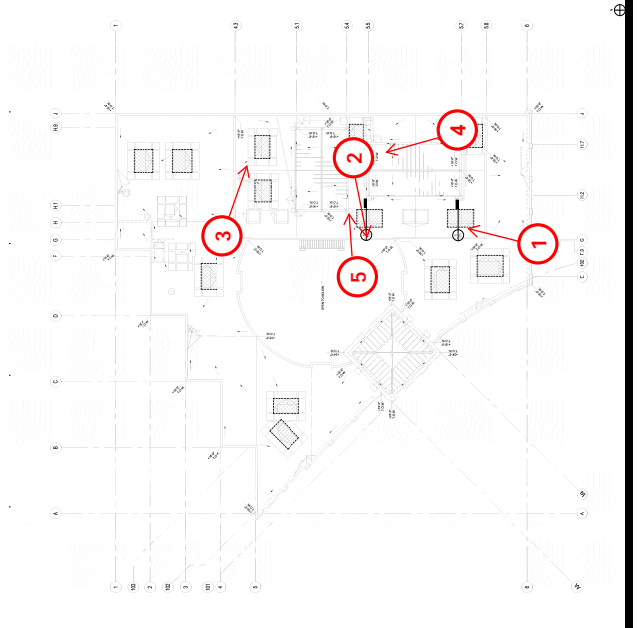
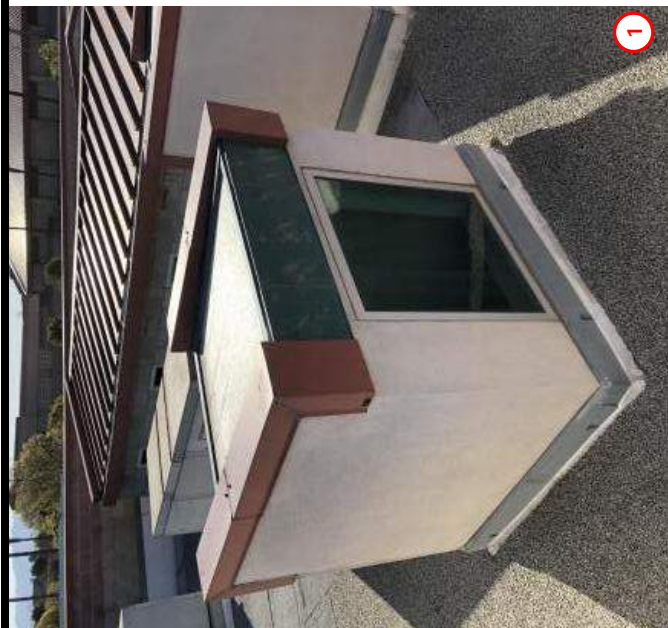
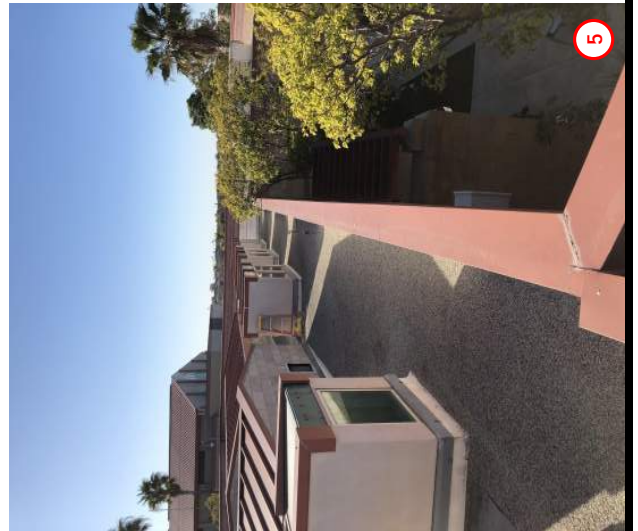
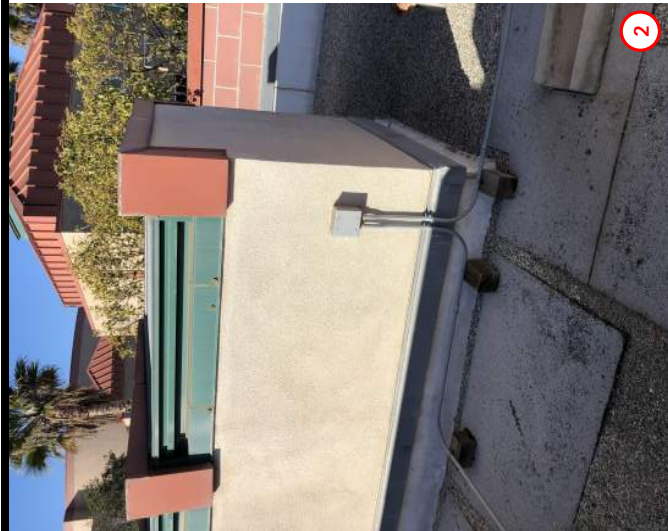
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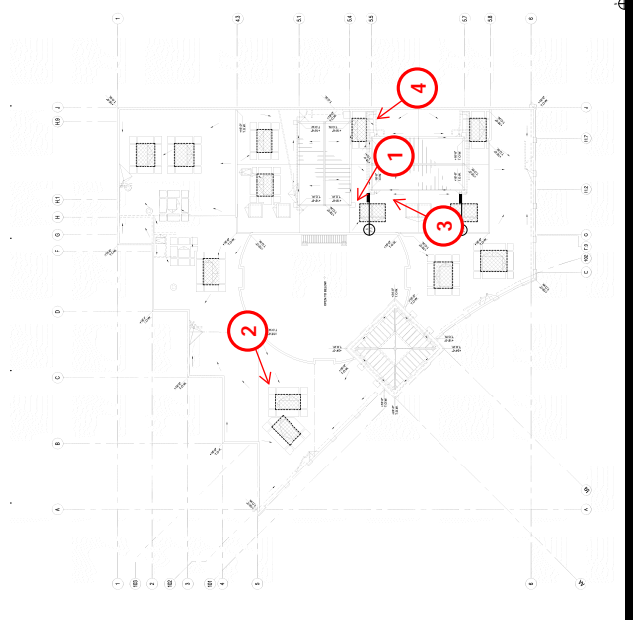
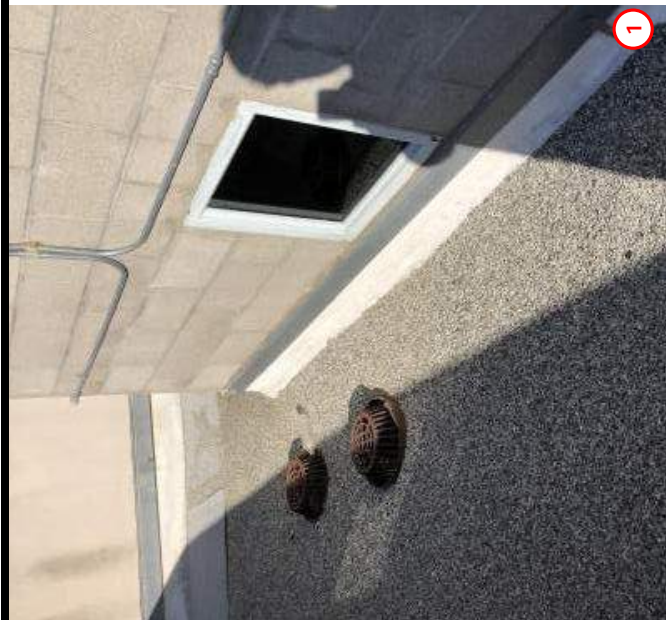
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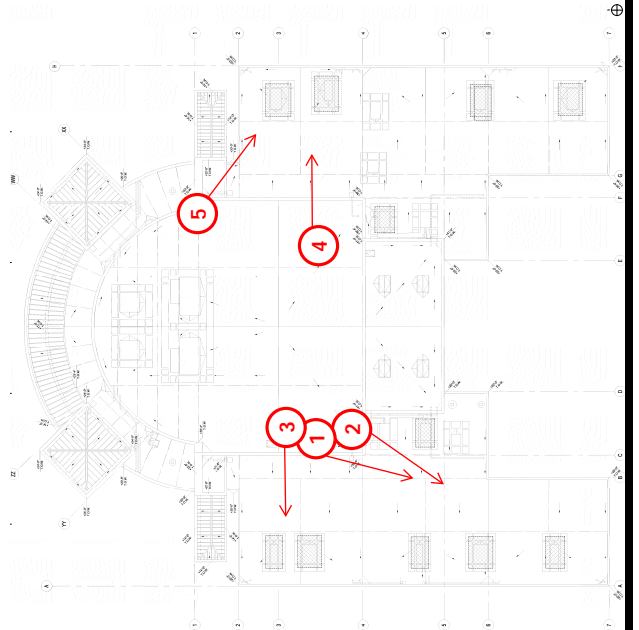
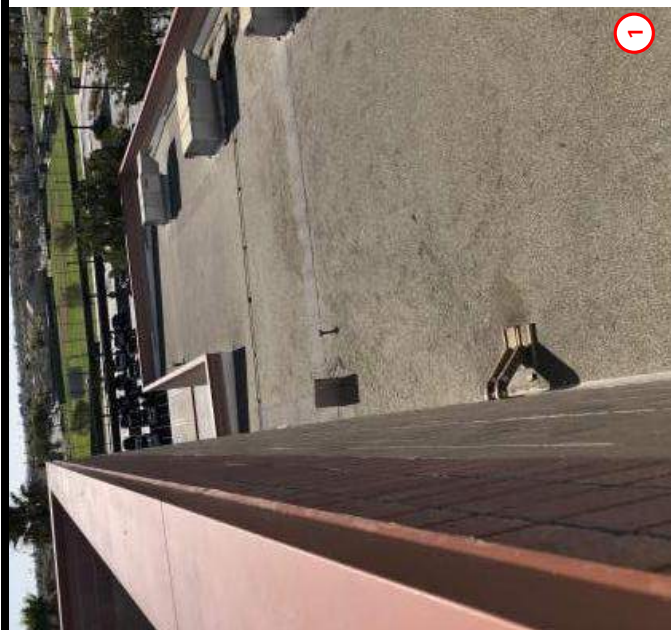
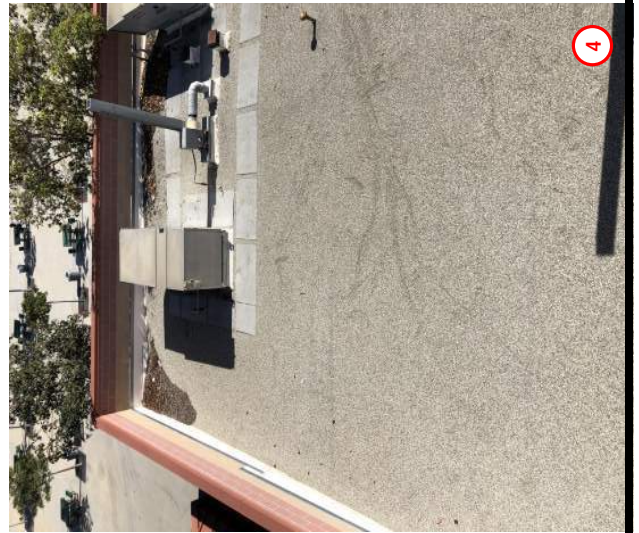
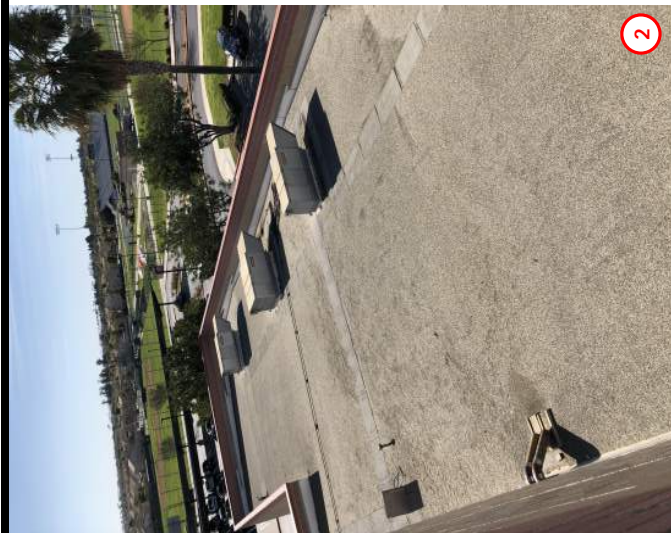
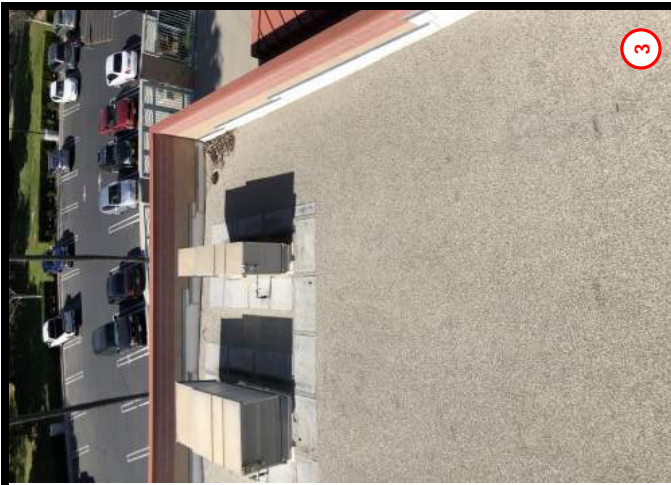
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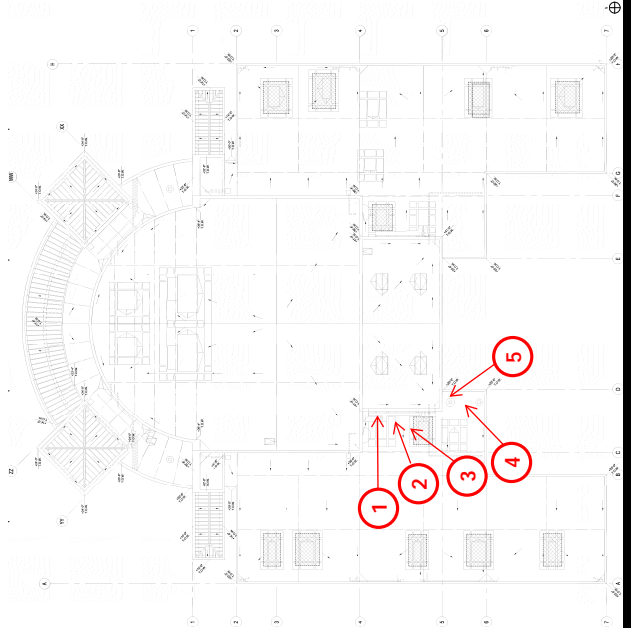
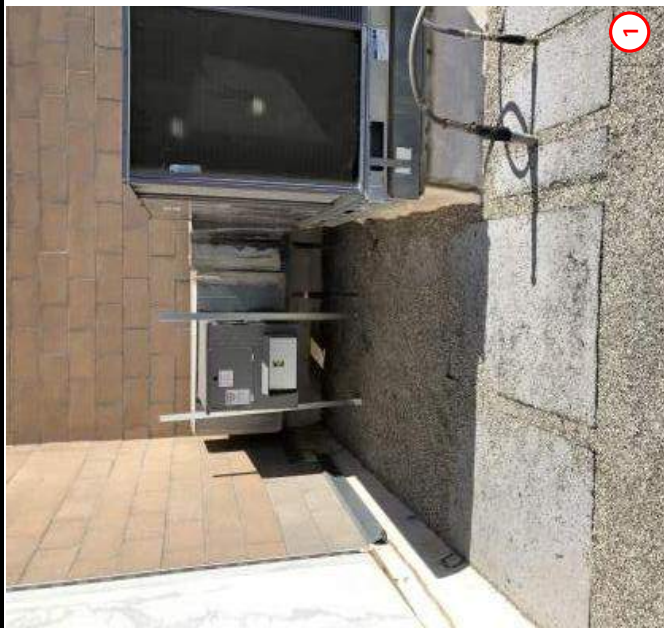
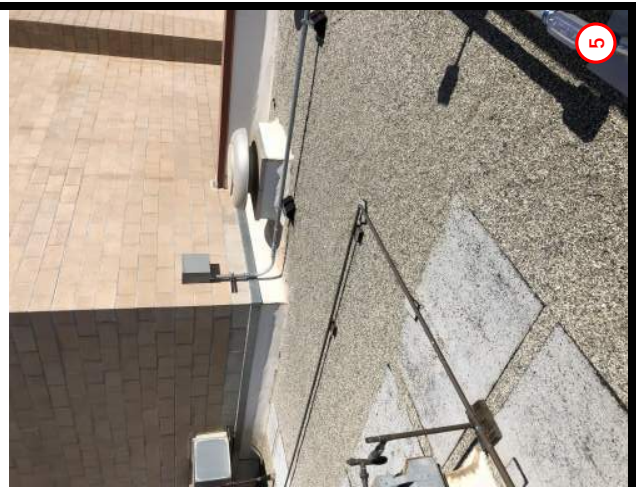
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- Phase #2 March - July 2021 Includes Building F Upper Floor
- Phase #3 July - Sept 2021 Includes Lower Floor of Building E
- Phase #4 Oct - Feb. 2022 Includes Building J
- Phase #5 Feb.- June 2022 Includes Building F Lower Floor
- Phase #6 June - Oct. 2022 Includes Buildings B,D &H
- Closeout Period

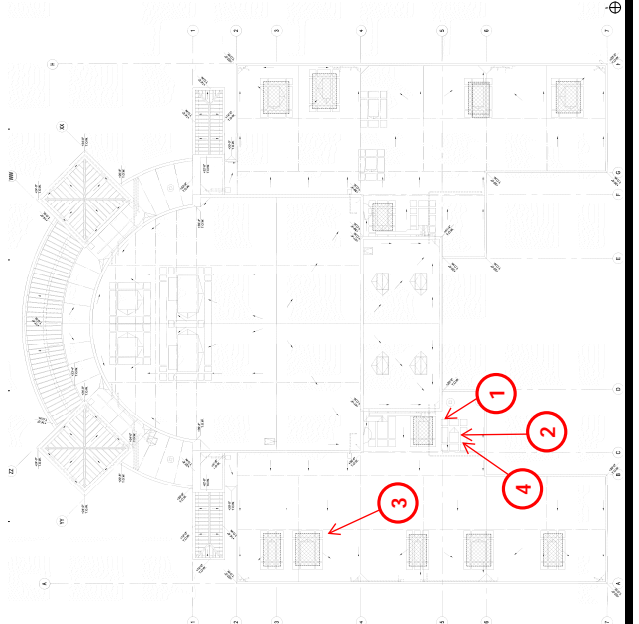
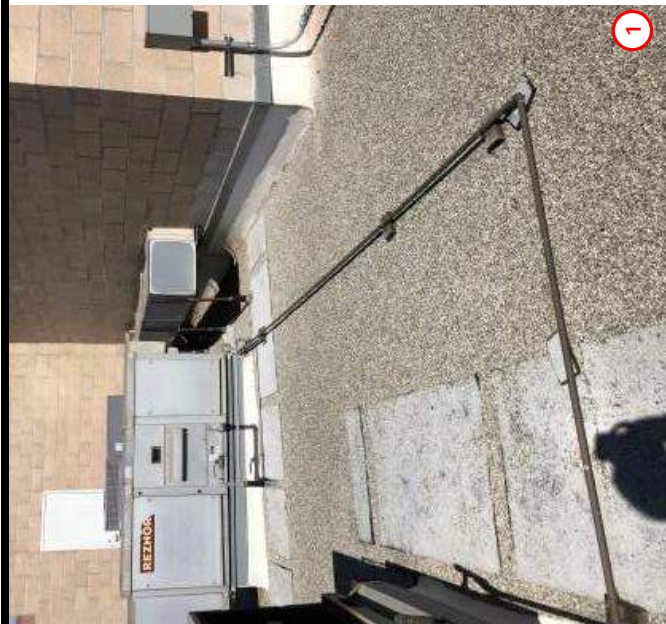


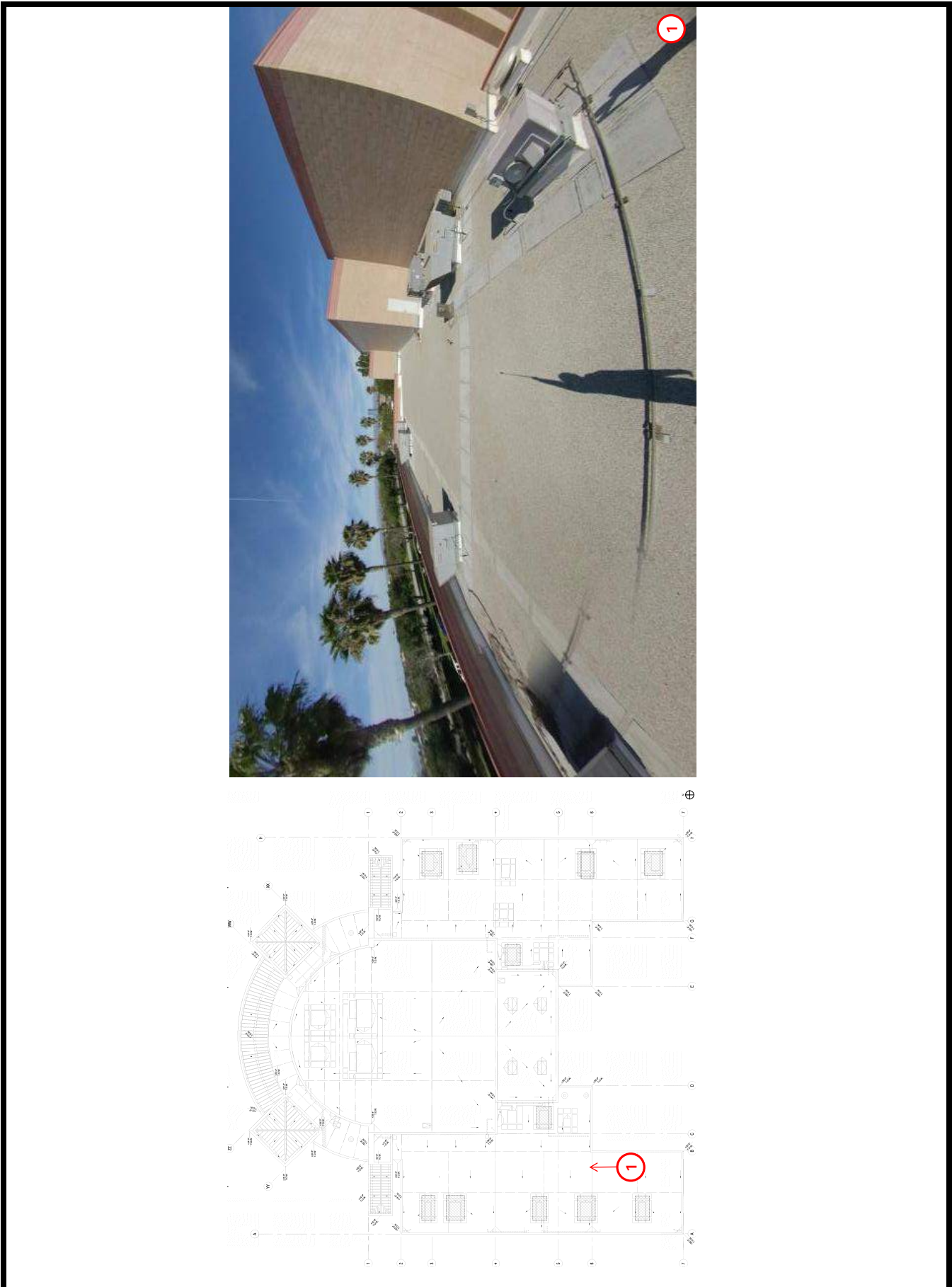


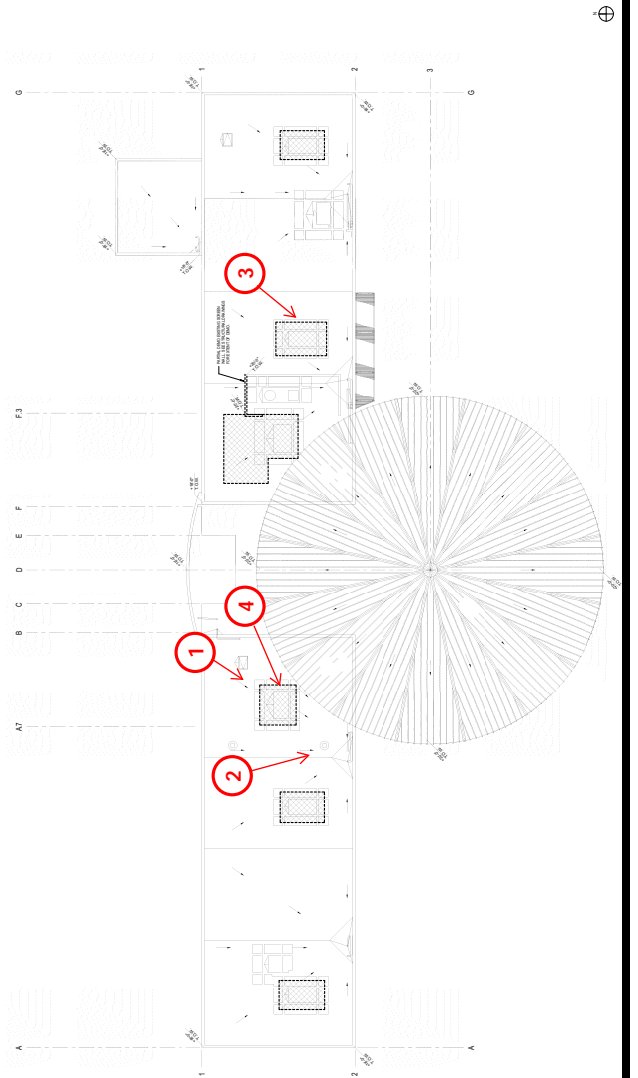
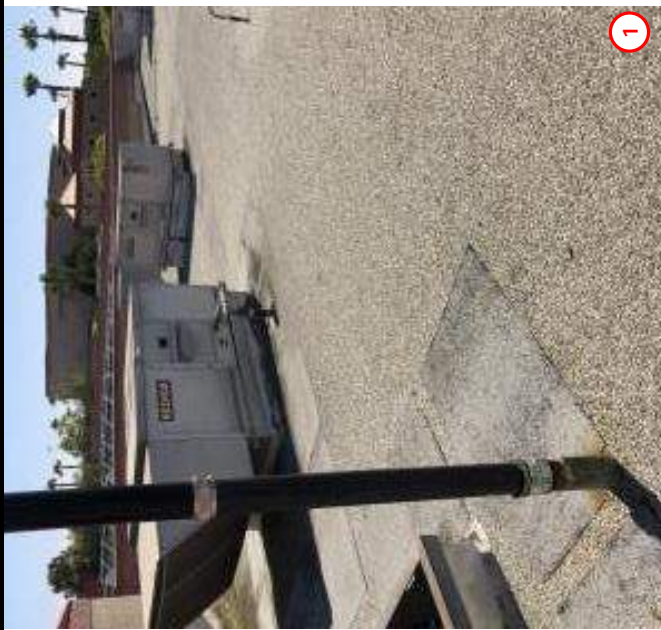
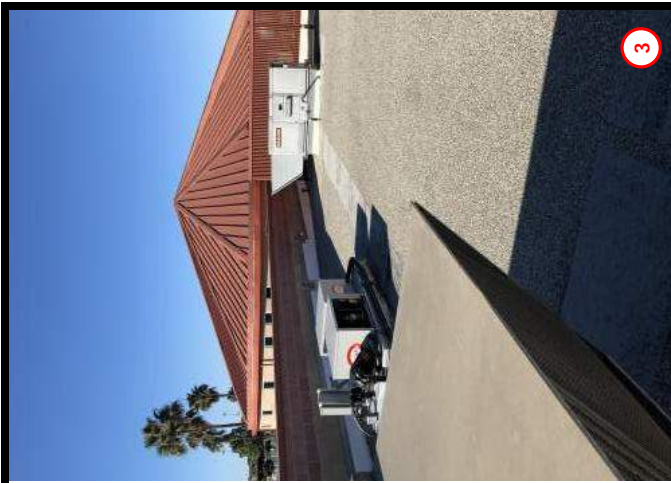


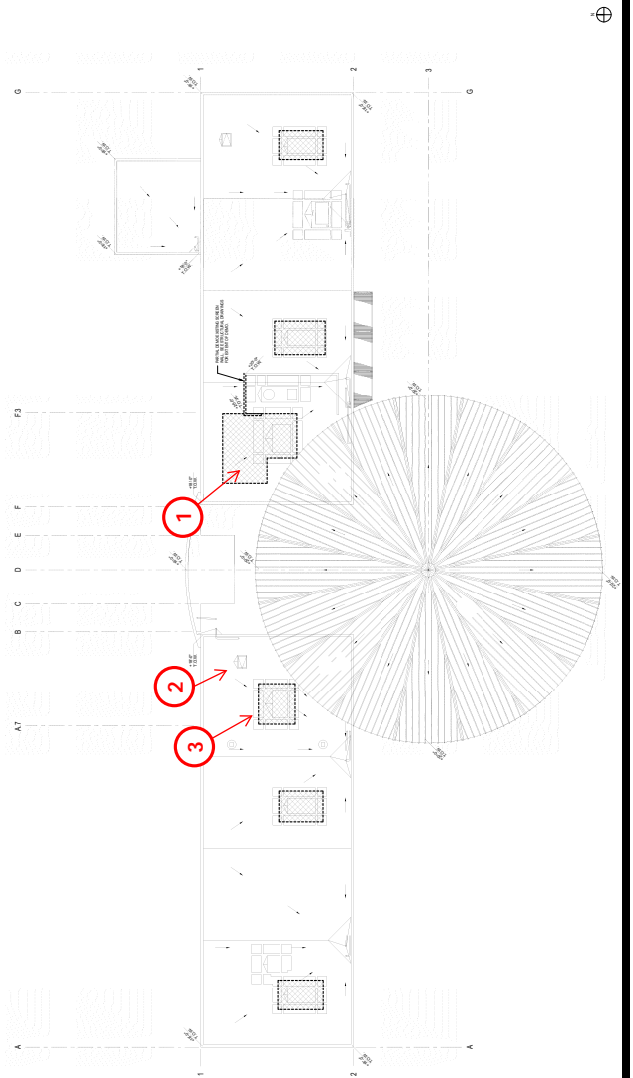


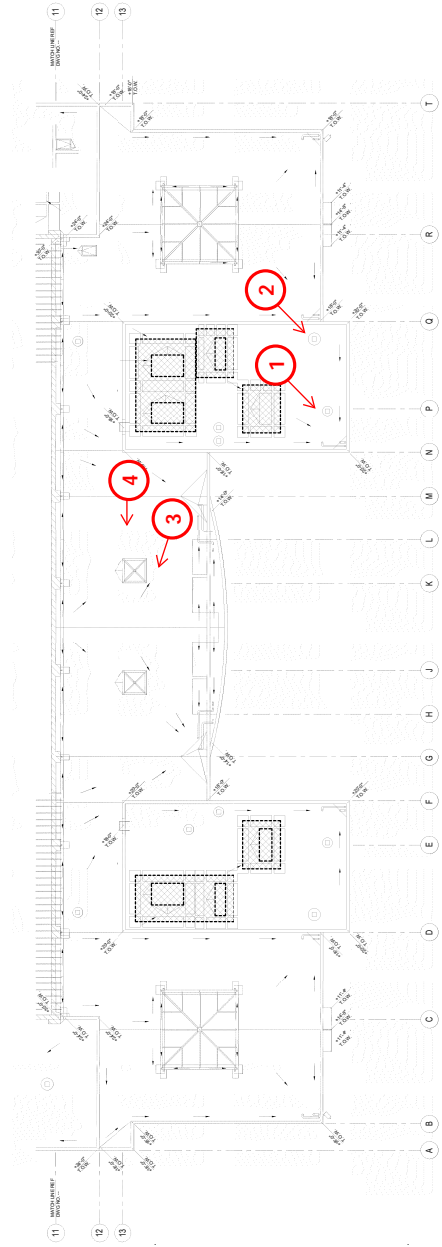
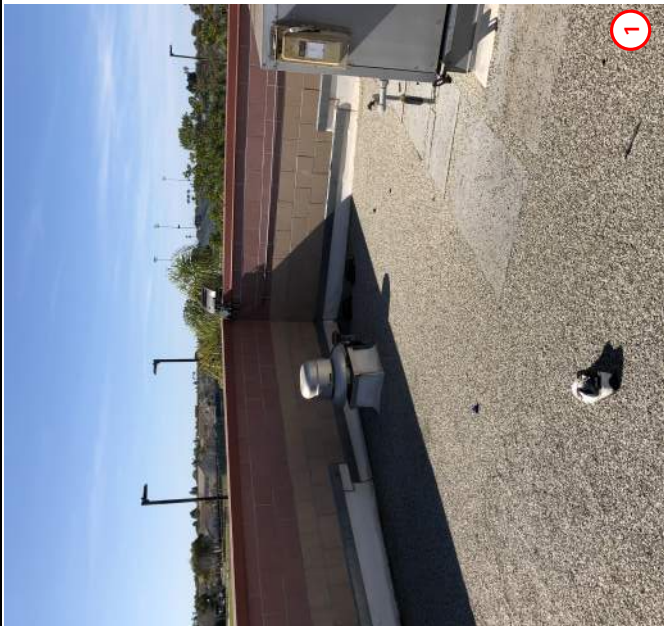
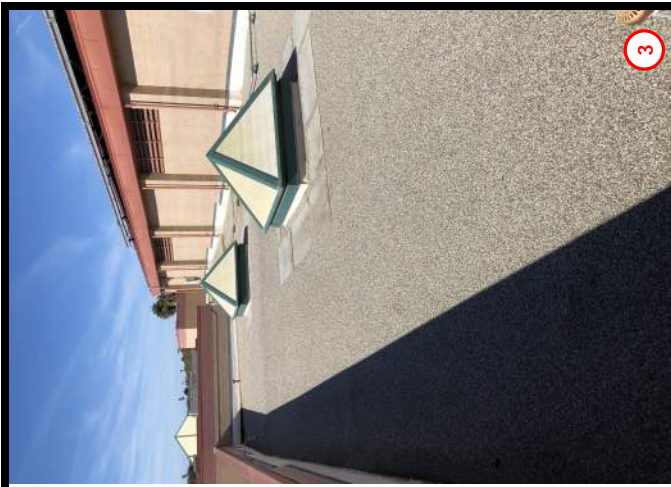


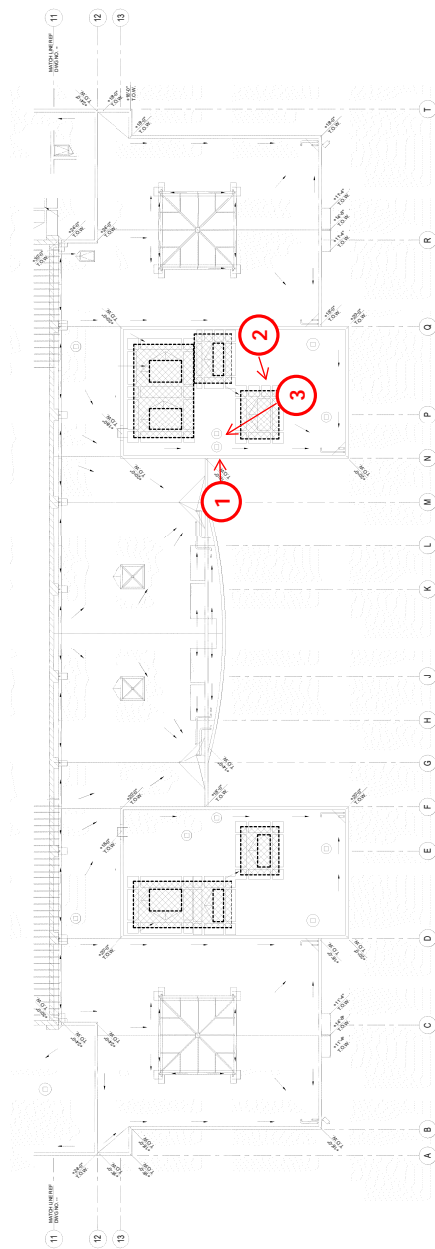
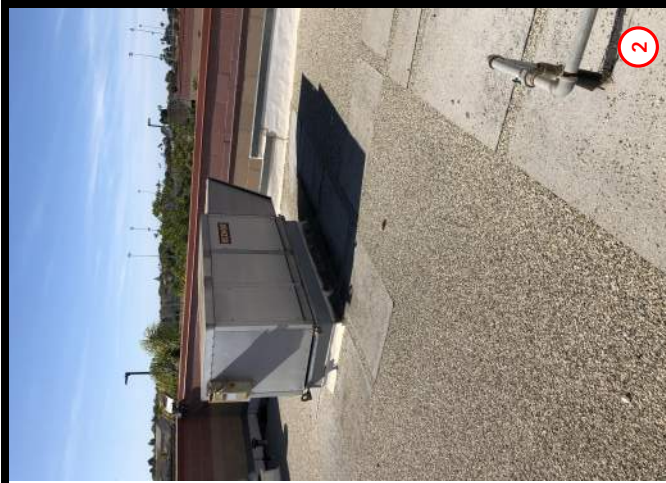


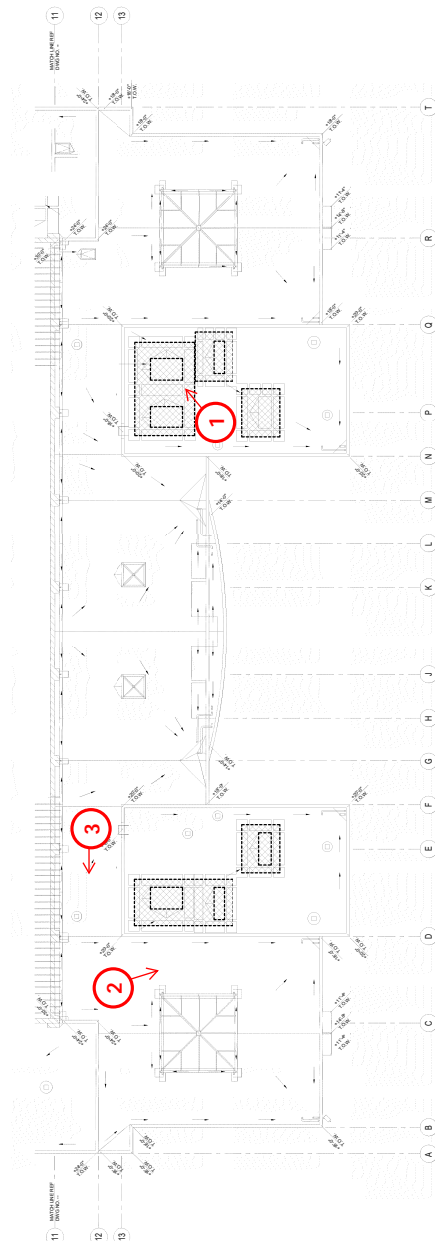


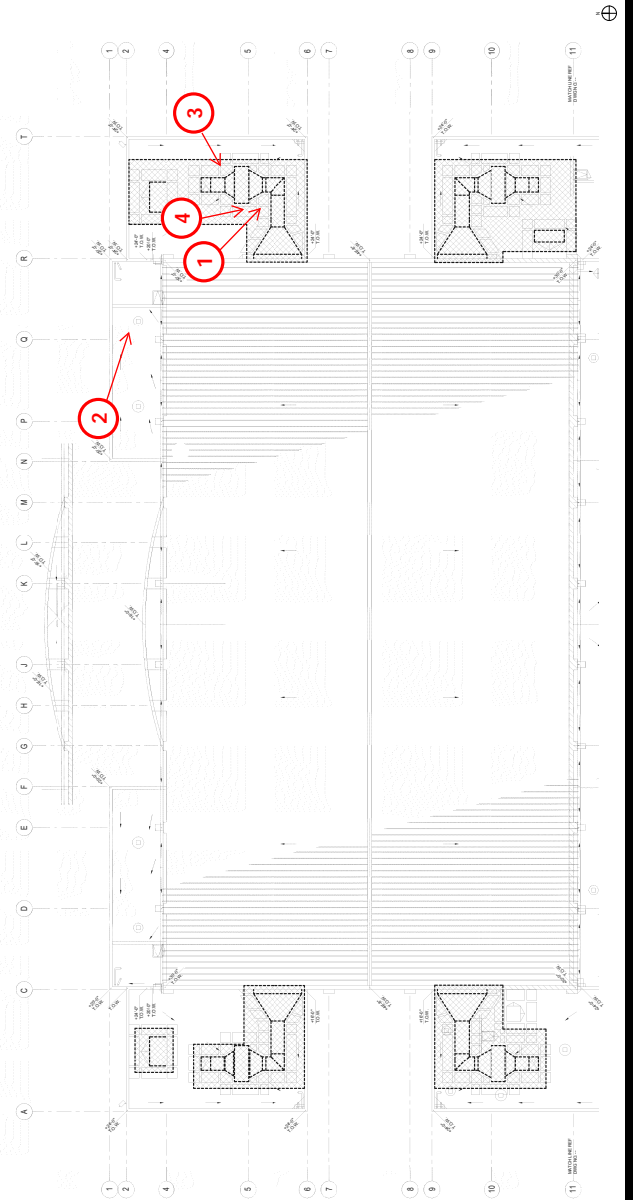
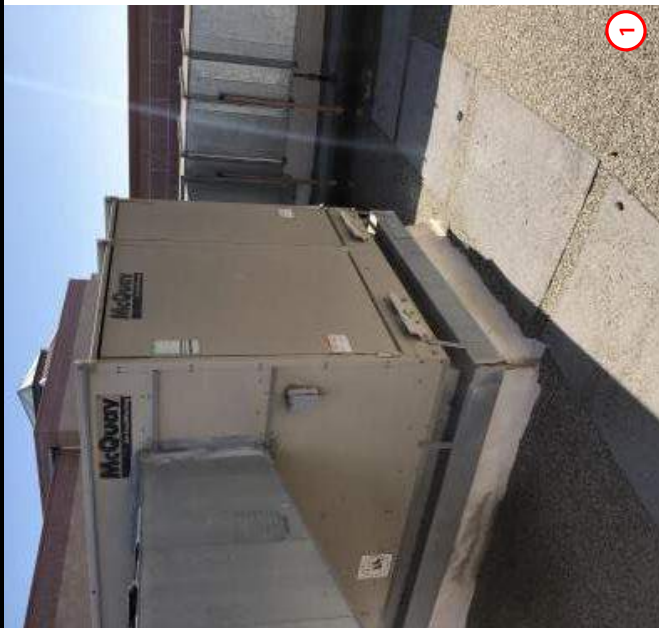


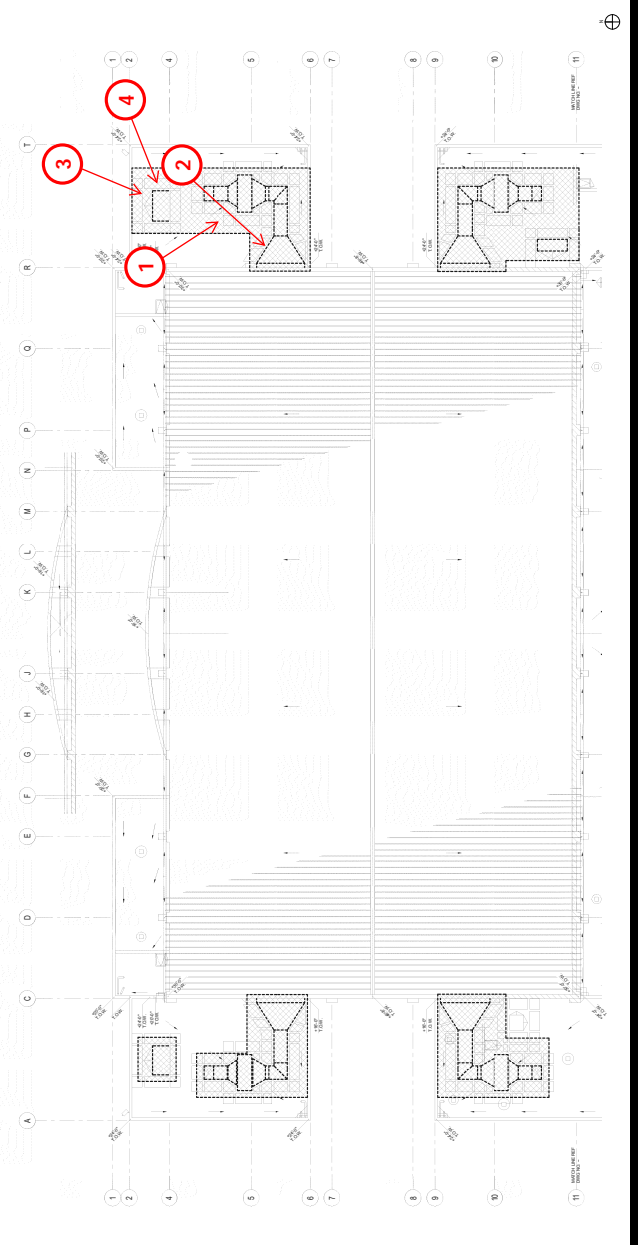
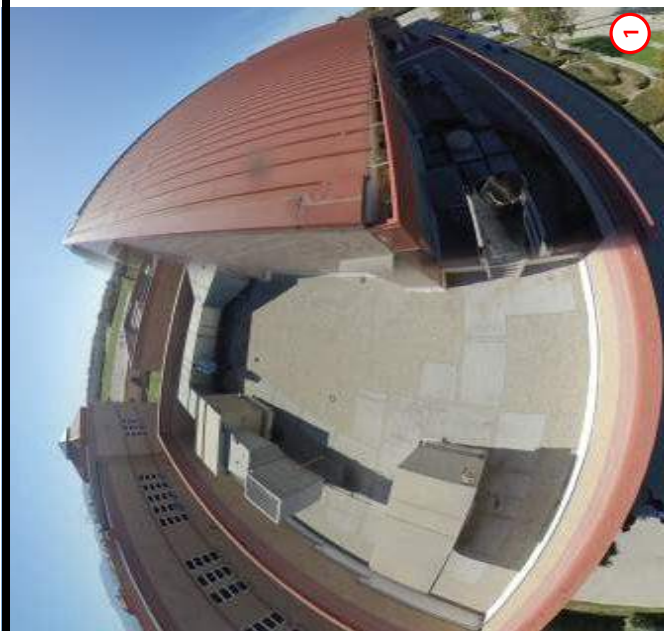
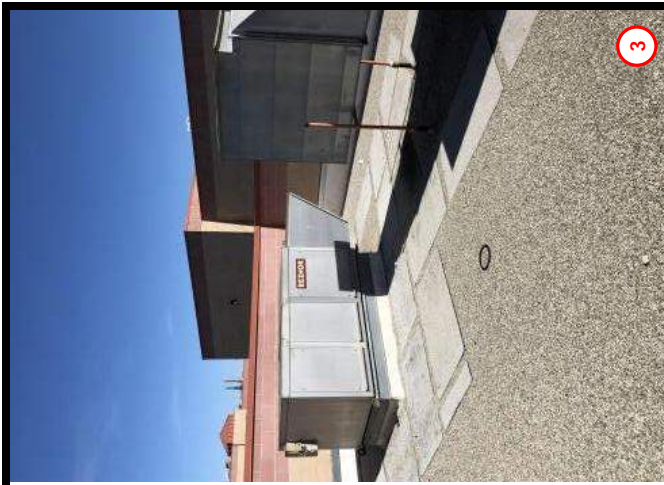


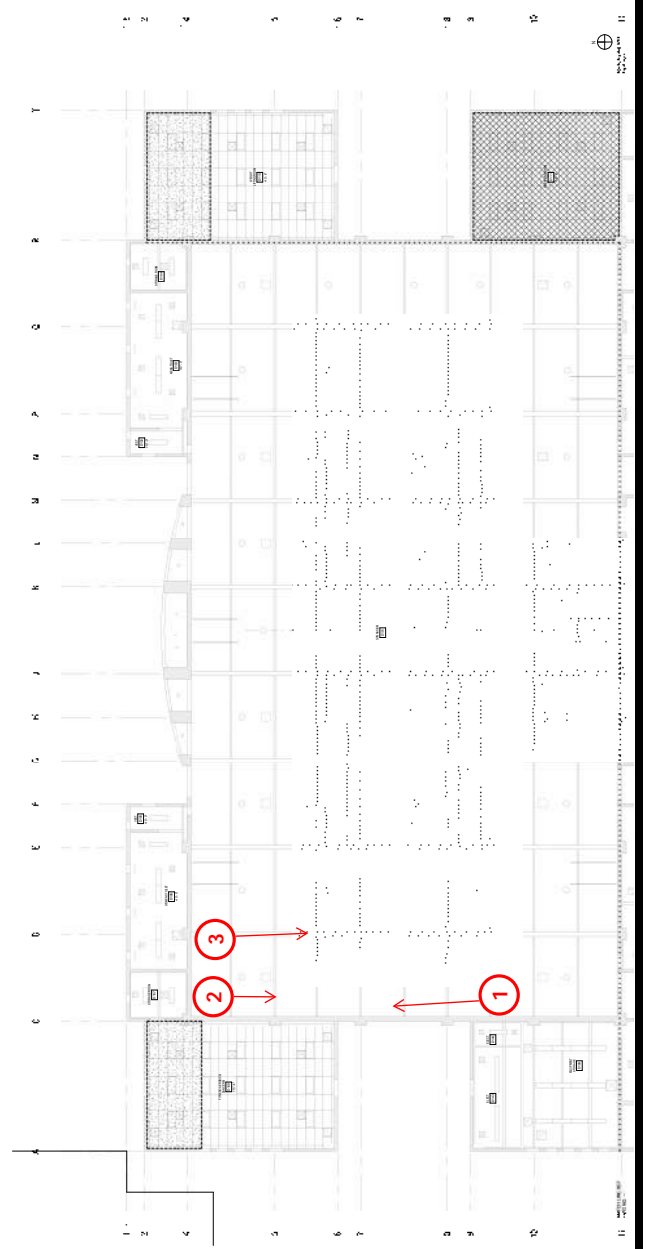
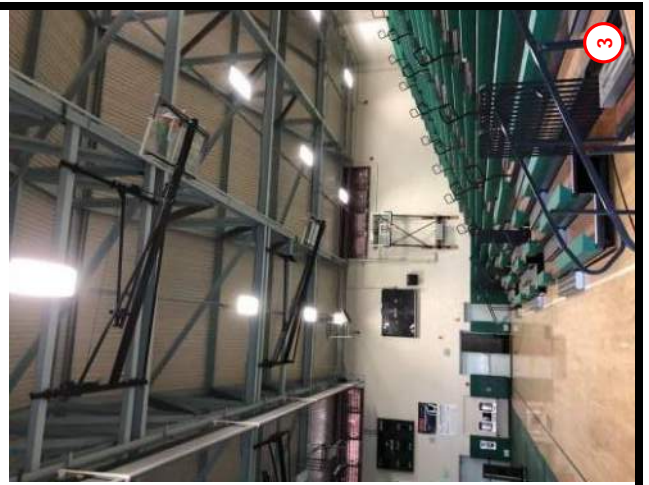
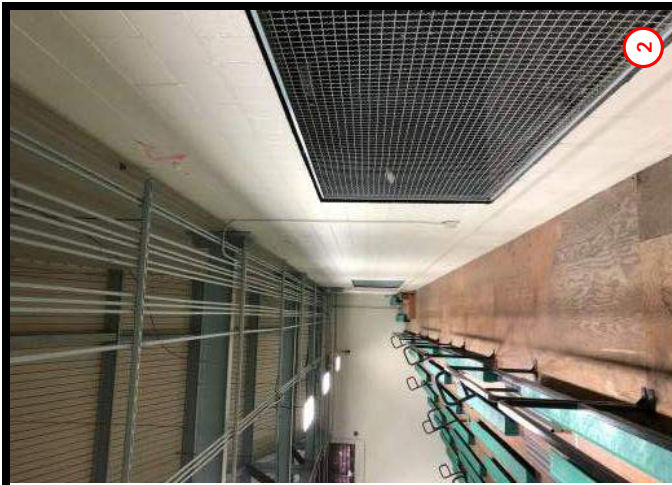


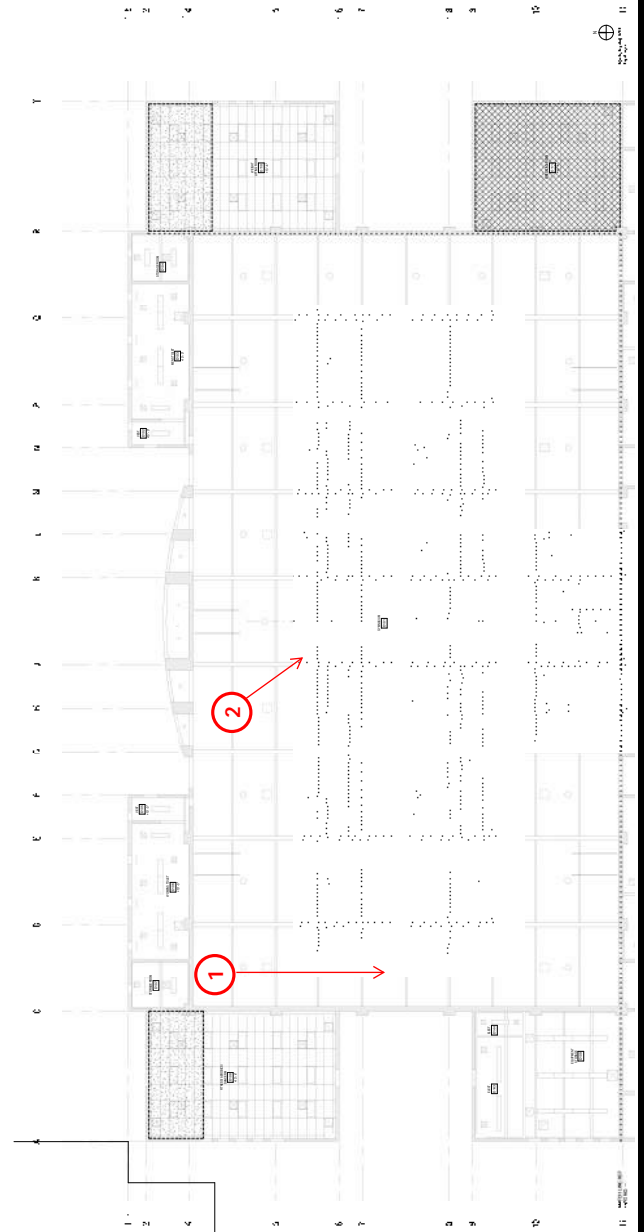




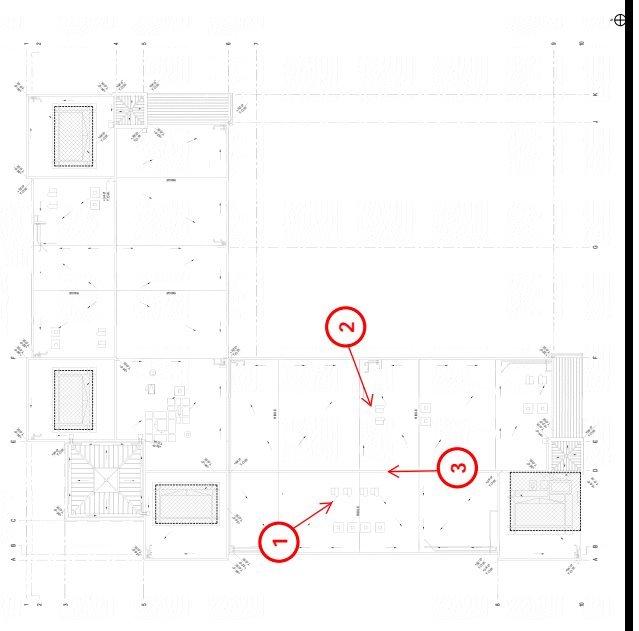
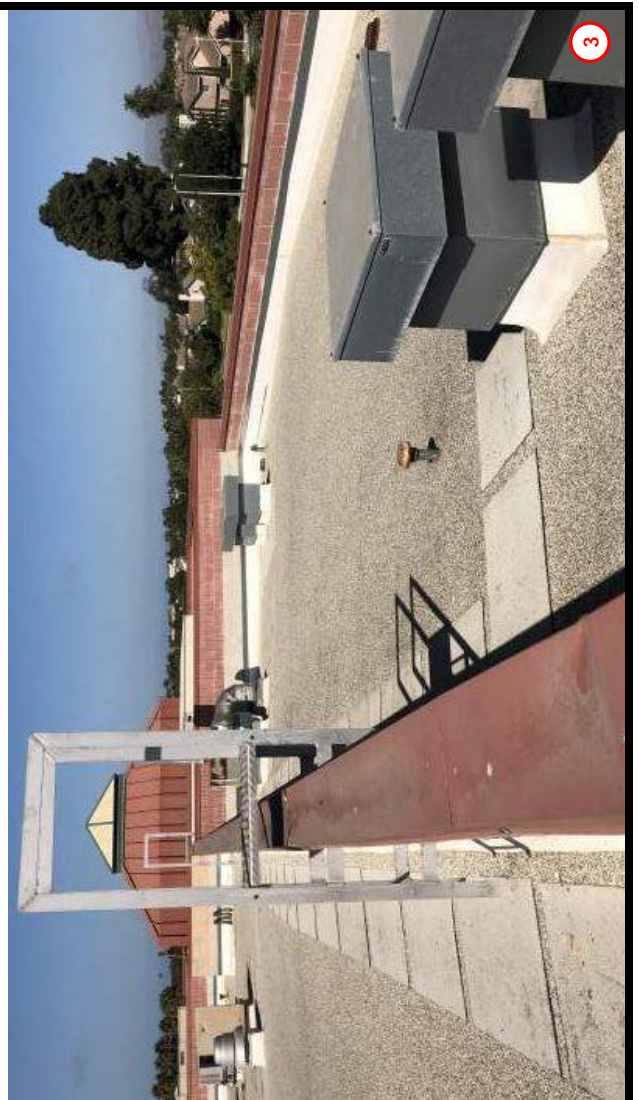


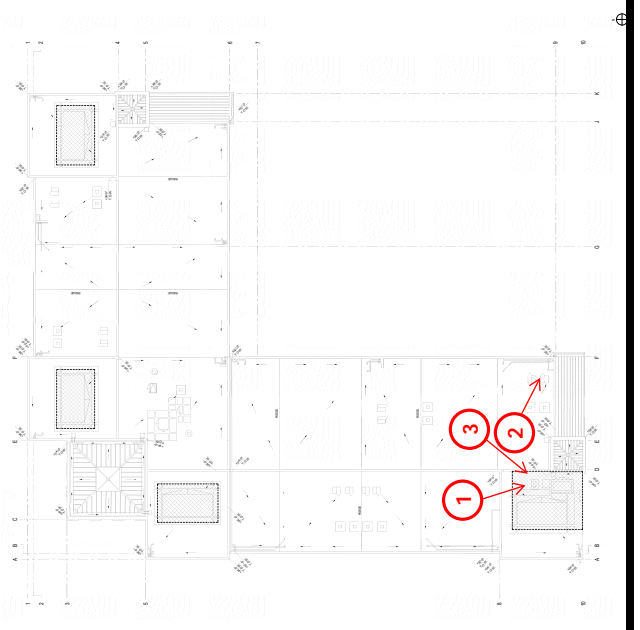


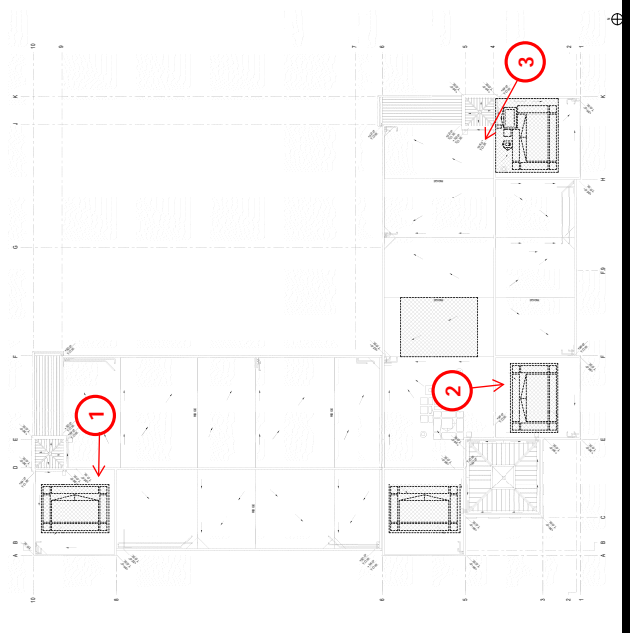


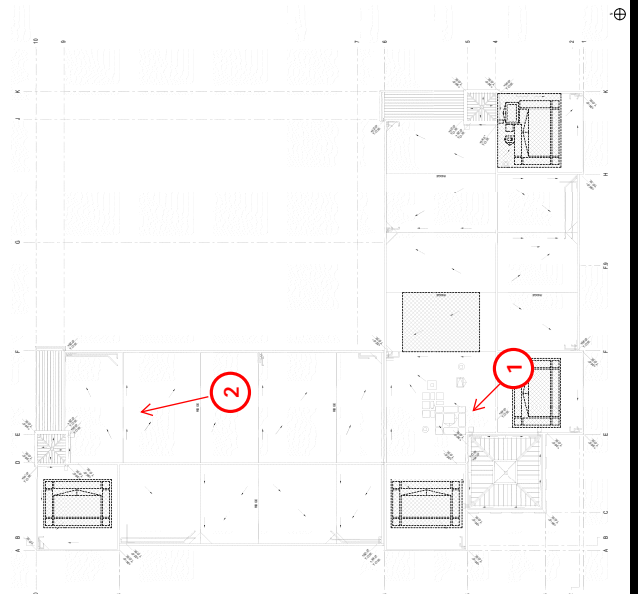
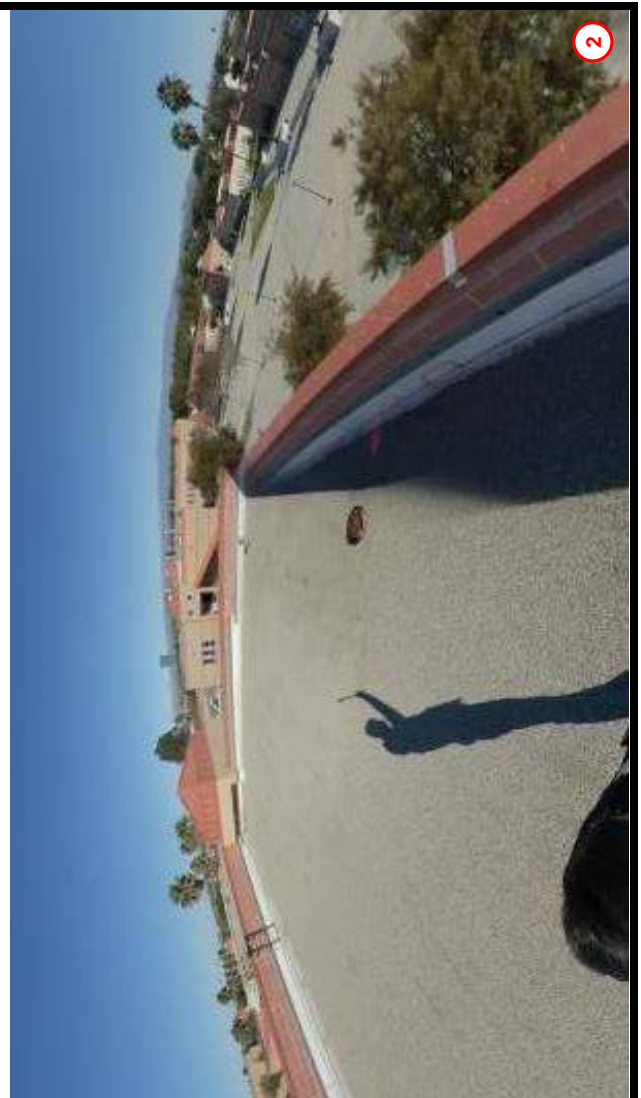


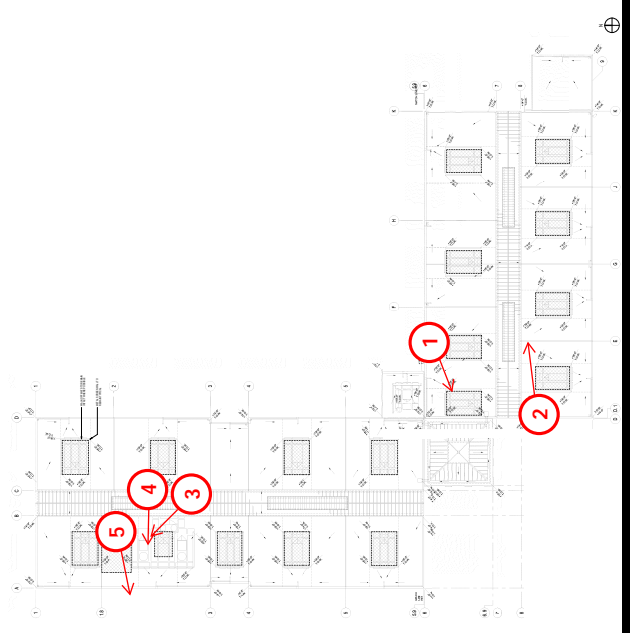
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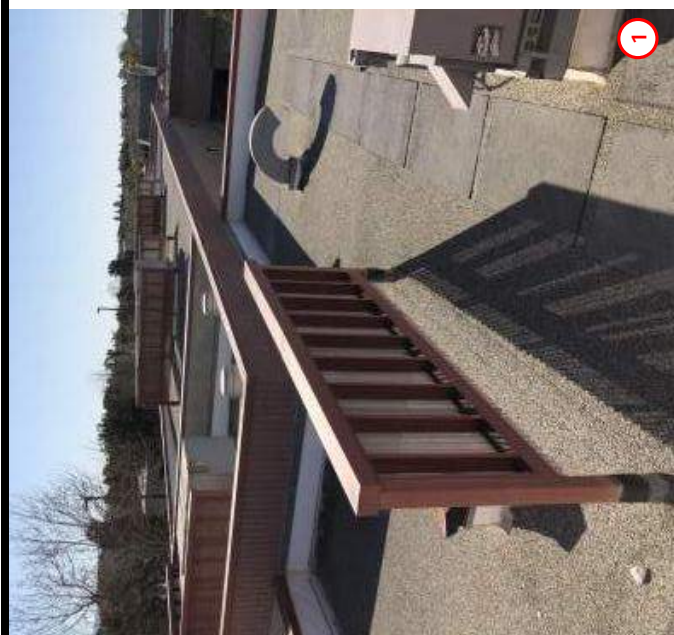
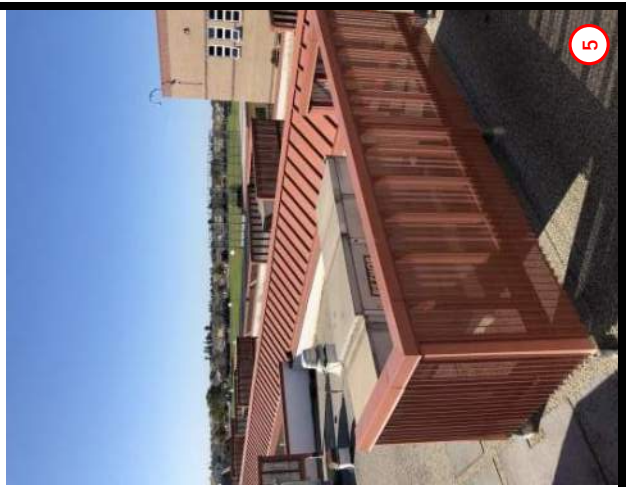
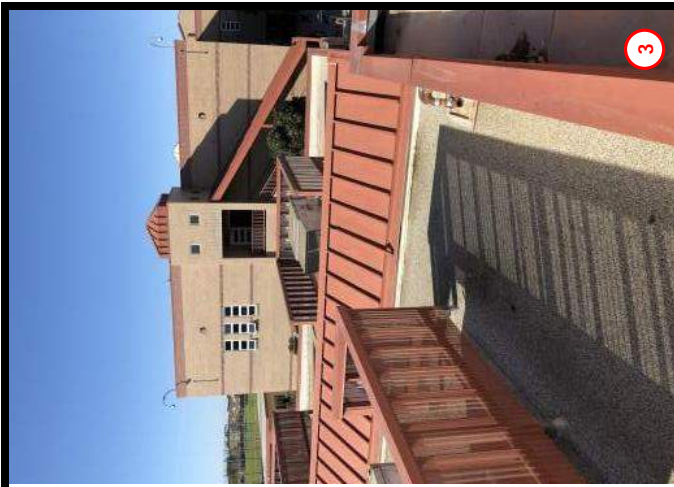


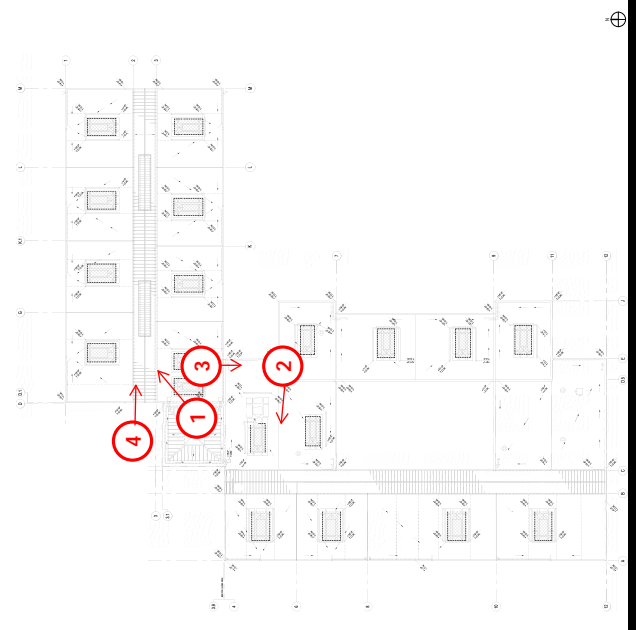
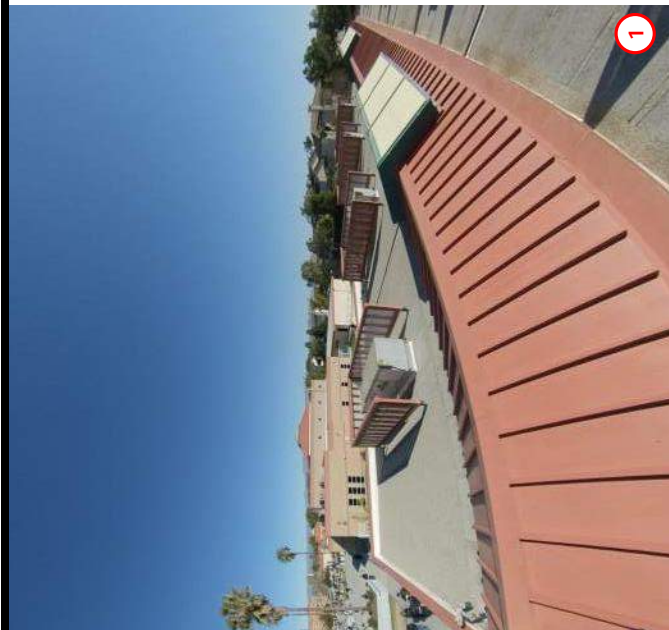
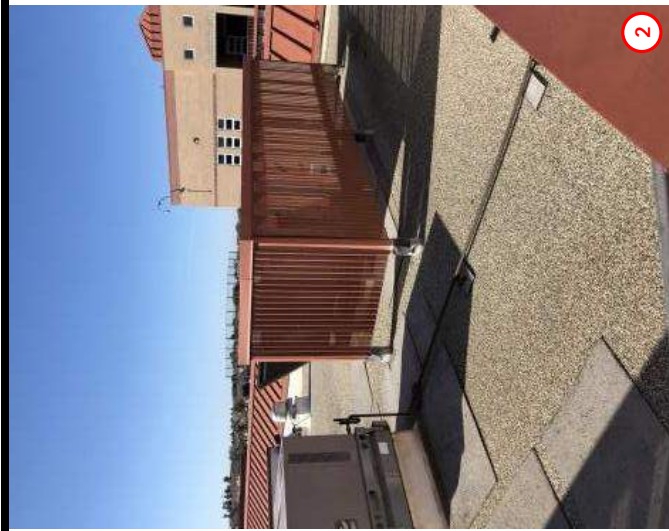


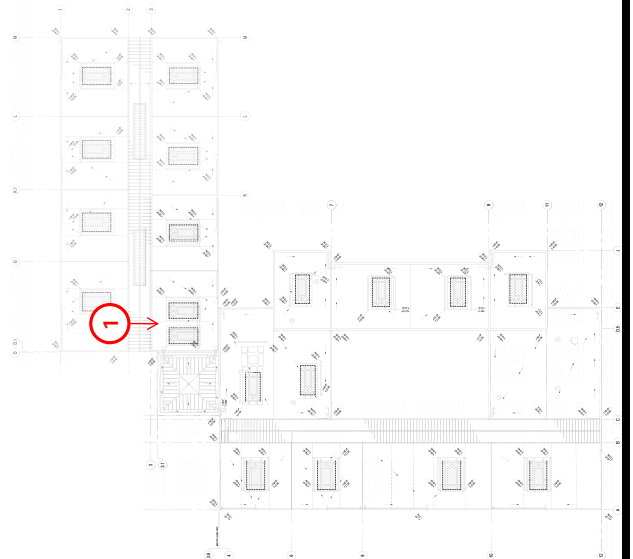












SECTION 23 72 00

ENERGY RECOVERY DEVICES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Air to Air Energy Recovery Ventilator.

1.2 QUALITY ASSURANCE

- A. Sound Ratings: Tested to AMCA 300.
- B. Fabrication: Conform to AMCA 99 and AHRI 430.
- C. Energy Recovery Ventilator (ERV) core element: Effectiveness values shall be tested in accordance with ASHRAE 84, be AHRI certified to Standard 1060, and bear the AHRI Certification symbol for AHRI Air-to-Air Energy Recovery Ventilation Equipment Certification program based on AHRI 1060.
- D. Unit shall bear a UL or ETL label of approval.

1.3 SUBMITTALS

- A. Submit shop drawings per Section 23 05 00.
- B. Energy transfer performance shall be clearly documented through a certification program conducted in accordance with ASHRAE 84 and AHRI 1060 standards. Submit fixed plate AHRI 1060 compliance certification with reference number.
- C. Indicate ratings, energy recovery performance, pressure drop, outdoor air correction factor (OACF), exhaust air transfer rate (EATR), motor electrical characteristics, gauges, material finishes, assembly, unit dimensions, weight, required clearances, construction details, and field connection details.
- D. Indicate unit performance data for both supply air and exhaust air, with system operating condition indicated.
- E. Submit manufacturer's installation instructions.
- F. Any exceptions to the specifications must be clearly noted. Contractor is responsible for any additional expenses that may occur due to any exception made.
- G. Submit operation and maintenance data.
- H. Submit static pressure calculations showing total pressure drops.

- I. Submit certification that energy recovery devices, accessories, and components will withstand seismic forces defined in Section 23 05 50. Include the following:
 1. Basis for Certification: Indicate whether certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified.
 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in factory-fabricated protective containers, with factory-installed shipping skids and lifting lugs.
- B. Store in clean dry place and protect from weather and construction traffic. Handle carefully to avoid damage to components, enclosures, and finish.

1.5 WARRANTY

- A. Provide manufacturer's 10-year parts and labor warranty on energy recovery ventilator core element against defects in material and workmanship.

1.6 MAINTENANCE SERVICE

- A. Include maintenance items as outlined in manufacturer's operating and maintenance data, including minimum of controls checkout, adjustments and recalibrations.
- B. Submit copy of service call work order or report, and include description of work performed.

PART 2 - PRODUCTS

2.1 AIR-TO-AIR ENERGY RECOVERY VENTILATOR

- A. Air-to-Air Energy Recovery Ventilators shall be fully assembled at the factory and consist of a fixed-plate cross-flow heat exchanger with no moving parts, an insulated single wall G90 galvanized 20-gauge steel cabinet, motorized outside air intake damper, filter assemblies for both intake and exhaust air, enthalpy core, supply air blower assembly, motorized return air damper, exhaust air blower assembly and electrical control box with all specified components and internal accessories factory installed and tested and prepared for single-point high voltage connection. Entire unit, with the exception of field-installed components, shall be assembled and test operated at the factory.

2.2 CABINET

- A. Materials: Formed single wall insulated metal cabinet, fabricated to permit access to internal components for maintenance.

- B. Outside casing: 20 gauge, galvanized (G90) steel meeting ASTM A653 for components that do not receive a painted finish. Painted components as supplied by the factory shall have polyester urethane paint on 20 gauge G90 galvanized steel.
- C. Access doors shall be hinged with airtight closed cell foam gaskets. Door pressure taps, with captive plugs, shall be provided for cross-core pressure measurement allowing for accurate airflow measurement.
- D. Unit shall have factory-installed duct flanges on all duct openings.
- E. Cabinet Insulation: Unit walls and doors shall be insulated with 1 inch, 4 pound density, foil/scrim faced, high density fiberglass board insulation, providing a cleanable surface and eliminating the possibility of exposing the fresh air to glass fibers, and with a minimum R-value of 4.3 (hr-ft²-°F/BTU).
- F. Enthalpy core: Energy recovery core shall be of the total enthalpy type, capable of transferring both sensible and latent energy between airstreams. Latent energy transfer shall be accomplished by direct water vapor transfer from one airstream to the other, without exposing transfer media in succeeding cycles directly to the exhaust air and then to the fresh air. No condensate drains shall be allowed. The energy recovery core shall be designed and constructed to permit cleaning and removal for servicing. The energy recovery core shall have a ten year warranty. Performance criteria are to be as specified in AHRI Standard 1060.
- G. Control center / connections: Energy Recovery Ventilator shall have an electrical control center where all high and low voltage connections are made. Control center shall be constructed to permit single-point high voltage power supply connections to the fused disconnect.
- H. Passive Frost Control: The ERV core shall perform without condensing or frosting under normal operating conditions (defined as outside temperatures above -10°F and inside relative humidity below 40%). Occasional more extreme conditions shall not affect the usual function, performance or durability of the core. No condensate drains will be allowed.
- I. Motorized Isolation Damper(s): Return Air and Outside Air motorized damper(s) of an AMCA Class I low leakage type shall be factory installed.

2.3 BLOWER SECTION

- A. Blower section construction, Supply Air and Exhaust Air: Blower assemblies consist of a TEFC motor, and a belt driven forward-curved blower.
- B. Blower assemblies: Shall be statically and dynamically balanced and designed for continuous operation at maximum rated fan speed and horsepower.

2.4 MOTORS

- A. Blower motors shall be Premium Efficiency, EISA compliant for energy efficiency. The blower motors shall be totally enclosed (TEFC) and be supplied with factory installed motor starters.
- B. Belt drive motors shall be provided with adjustable pulleys and motor mounts allowing for blower speed adjustment, proper motor shaft orientation and proper belt tensioning.

2.5 UNIT CONTROLS

- A. Fan control: both airstreams.
- B. Factory-installed microprocessor controller and sensors, Enhanced ERV controls that:
 - 1. Comply with requirements in Division 23 Section "Sequence of Operations for HVAC Controls"
 - 2. Has factory-installed hardware and software to enable the building automation interface via BACnet to monitor, control, and display status and alarms.
 - 3. The microprocessor controller shall be capable of operating at temperatures between -20F to 160F.
 - 4. The microprocessor controller shall be a DIN rail mounting type.
 - 5. Factory-installed microprocessor controller shall come with backlit display that allows menu-driven display for navigation and control of unit.
 - 6. The microprocessor controller shall have the ability to communicate with the BMS via BACnet MSTP/IP.
 - 7. The microprocessor control shall be capable of integral diagnostics.
 - 8. The microprocessor controller shall have a battery powered clock.
 - 9. The sensors that will be required for control are:
 - i. (2) Temperature sensor for fresh air and exhaust air
 - ii. (2) Temperature and humidity sensor for outside air, return air
 - iii. (2) Differential pressure sensors for filter alarms
 - iv. (2) Differential pressure sensors for measuring pressure drop across energy recovery core and for determining airflow in both airstreams
 - v. (2) Adjustable current switches
 - 10. The microprocessor controller shall have the capability to monitor the unit conditions for alarm conditions. Upon detecting an alarm, the microprocessor controller shall have the capability to record the alarm description, time, date, available temperatures, and unit status for user review. A digital output shall be reserved for remote alarm indication. Alarms to be also communicated via BMS as applicable. For required alarms, refer to BMS Control drawings in Construction Drawings.
 - 11. Display the following on the face of microprocessor controller:
 - i. Unit on
 - ii. Outdoor air temperature
 - iii. Outdoor air humidity
 - iv. Return air temperature

- v. Return air humidity
- vi. Supply air temperature
- vii. Unit on/off
- viii. Fan on/off
- ix. Damper status
- x. Alarm digital display

12. The microprocessor controller shall have factory pre-programmed multiple operating sequences for control of the ERV. Factory default settings shall be fully adjustable in the field. Available factory pre-programmed sequences on operations are:

2.6 SEQUENCE OF OPERATIONS

- A. Refer to BMS Control drawings in Construction Documents.

2.7 FILTER SECTION

- A. ERV shall have MERV 13 disposable pleated filters located in the outdoor air and exhaust airstreams. All filters shall be accessible from the exterior of the unit.

2.8 COATINGS:

- A. Apply marine coating by certified licensed applicator.
- B. The coating product manufacturer shall be able to document a class 5B result on a cross hatch adhesion test (ASTM D5339) and the testing for a minimum 4000 hours in both salt spray (ASTM B117) and acid salt spray (ASTM G85) test.
- C. The coating service provider shall also be able to offer a 3-year conditioned warranty for coating applied on finned-tube coils.
- D. The coating shall be applied insuring total penetration and coverage without bridging or significantly affecting the heat transfer ability of the coil.
- E. The total dry film thickness of the coating shall be 1mil.
- F. The coating shall provide inherent protection against ultra-violet radiation and have a dry temperature resistance from -4°F to 302°F.
- G. The following components shall be coated:
- 1. Base Rails
 - 2. Exterior cabinet
- H. Acceptable Manufacturers:
- 1. Luvata "Tropicoat" or approved equal.

2.9 ACCEPTABLE MANUFACTURERS:

- A. RenewAire or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to start of installation, examine area and conditions to verify correct location for compliance with installation tolerances and other conditions affecting unit performance. See unit IOM.
- B. Examine roughing-in of plumbing, electrical and HVAC services to verify actual location and compliance with unit requirements. See unit IOM.
- C. Proceed with installation only after all unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Installation shall be accomplished in accordance with these written specifications, project drawings, manufacturer's installation instructions as documented in manufacturer's IOM, Best Practices and all applicable building codes.
- B. Install unit with clearances for service and maintenance.

3.3 CONNECTIONS

- A. In all cases, industry best practices shall be incorporated. Connections are to be made subject to the installation requirements shown above.
- B. Duct installation and connection requirements are specified in Division 23 of this document.
- C. Electrical installation requirements are specified in Division 26 of this document.

3.4 FIELD QUALITY CONTROL

- A. Contractor to inspect field assembled components and equipment installation, to include electrical and piping connections. Report results to Architect/Engineer in writing. Inspection must include a complete startup checklist to include (as a minimum) the following: Completed Start-Up Checklists as found in manufacturer's IOM.

3.5 START-UP SERVICE

- A. Contractor to perform startup service. Clean entire unit, comb coil fins as necessary, and install clean filters. Measure and record electrical values for voltage and amperage. Refer to Division 23 "Testing, Adjusting and Balancing" and comply with provisions therein.

3.6 DEMONSTRATION AND TRAINING

- A. Contractor to train owner's maintenance personnel to adjust, operate and maintain the entire Make-Up Air unit. Refer to Division 01 Section Closeout Procedures and Demonstration and Training.

END OF SECTION

SECTION 23 74 11

PACKAGED ROOFTOP AIR CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Packaged Rooftop Unit.
- B. Unit Controls.
- C. Roof Mounting Frame and Base.
- D. Economizers.
- E. Power Exhaust.

1.2 QUALITY ASSURANCE

- A. All insulation inside the unit and in the air stream must comply with the requirement of NFPA 90A (maximum flame spread of 25 and maximum smoke developed of 50).
- B. All units must be UL or ETL listed and must contain UL labeled components.
- C. Fans shall be tested and rated in cabinet in accordance with AMCA Standard 210. All fan assemblies shall be dynamically balanced in cabinet at final assembly.
- D. Conform to ASHRAE 90.1.
- E. All air handling and distribution equipment mounted outdoors shall be designed to prevent rain intrusion into the airstream when tested at design airflow and with no airflow, using the rain test apparatus described in Section 58 of UL 1995.

1.3 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 23 05 00.
- B. Indicate electrical service and duct connections on shop drawings or product data.
- C. Submit manufacturer's installation instructions.
- D. Submit electrical power/controls wiring diagrams and product data indicating general assembly, components, safety controls, and service connections.
- E. Submit certification that the packaged rooftop air conditioning units, accessories, and components will withstand seismic forces defined in Section 23 05 50. Include the following:
 - 1. Basis for Certification: Indicate whether certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.

3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect units from physical damage by storing off site until roof mounting frames are in place, ready for immediate installation of units.

1.5 OPERATION AND MAINTENANCE DATA

- A. Submit operation and maintenance data.
- B. Include manufacturer's descriptive literature, installation instructions, maintenance and repair data, and parts listing.

1.6 WARRANTY

- A. Provide five (5) year manufacturer's warranty for compressors.
- B. Provide five (5) year manufacturer's warranty for heat exchanger.
- C. Provide one (1) year manufacturer's warranty for parts.

1.7 MAINTENANCE SERVICE

- A. Furnish complete service and maintenance of packaged roof top units for one year from Date of Substantial Completion.
- B. Provide maintenance service with a two-month interval as maximum time period between calls. Provide 24-hour emergency service on breakdowns and malfunctions.
- C. Include maintenance items as outlined in manufacturer's operating and maintenance data, including minimum of six filter replacements, minimum of one fan belt replacement, and controls check-out, adjustments, and recalibrations.
- D. Submit copy of service call work order or report, and include description of work performed.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Carrier (Basis of Design)
- B. Lennox
- C. Trane

2.2 MANUFACTURED UNITS

- A. Provide roof-mounted units having gas burner, and electric refrigeration.
- B. Unit shall be self-contained, packaged, factory assembled, pre-wired and tested, consisting of cabinet and frame, supply fan, heat exchanger and burner, controls, air filters, refrigerant cooling coil and compressor, condenser coil, condenser fan, and a full refrigerant charge.
- C. Unit shall be furnished with non-fused disconnect switch, short fuse protection of all internal electrical components, and all necessary motor starters, contactors, and over-current protection.

2.3 FABRICATION

- A. Cabinet: Galvanized steel with baked enamel finish, access doors or removable access panels with quick fasteners locking door handle type with piano hinges. Access doors shall be provided at each section (e.g., filter section, supply fan section, etc.). All exterior access panels must be permanently labeled on the outside indicating what is behind the panel. Structural members shall be minimum 18 gauge, with access doors or removable panels of minimum 20 gauge.
- B. Outside Air Intakes: The outside air intakes shall be located a minimum of 15 inches above the roof mounting curb to minimize the effect of heat pickup from the roof during the natural cooling cycle and the effects of snow on the roof during winter operation. Each air intake shall be furnished with rain eliminators.
- C. Insulation: Minimum of 1/2" thick, 1.5 lb./cu.ft. density coated glass fiber insulation on surfaces where conditioned air is handled. Protect edges from erosion.
- D. Heat Exchangers: Aluminized steel, of welded construction.
- E. Air Filters: Two inch thick glass fiber MERV 13 disposable media in metal frames.
- F. Roof Mounting Curb:
 - 1. Rigid Curb (3 to 5 ton units): Minimum 11 inches, minimum 14 gauge galvanized steel, one-piece construction, insulated, all welded, wood nailer. Refer to Plans.
 - 2. Vibration Isolator Curbs (Above 5 ton units): Minimum 11 inches, minimum 14 gauge galvanized steel, 2" Calydyn CQA deflection isolator type (OPM-0401-13), insulated, all welded, Refer to Plans.

2.4 FANS/MOTORS

- A. Supply Fan: Forward curved centrifugal type, resiliently mounted with V-belt drive, adjustable variable pitch motor sheave, and rubber isolated hinge mounted motor. All fan bearings must be capable of being lubricated by easily accessible grease fittings. GC models shall have the following: ECM design, permanently lubricated bearings, inherent automatic-reset thermal overload protection, and slow ramp up to speed capabilities.
- B. Belt drive fans must be within $\pm 10\%$ of scheduled RPM. (This is not applicable to GC models)
- C. All fans must be statically and dynamically balanced.
- D. Belt drive fans shall have slide rails, adjusting screws, anchor bolts, and bedplates.
- E. Motors shall be open drip-proof with grease lubricated bearings.
- F. Drives shall be V-belt type with adjustable pitch sheaves for units 20 HP and below. On units over 20 HP, use fixed sheaves. This Contractor shall provide replacement sheaves and belts as required to allow final air balancing. (This is not applicable to GC models)
- G. Units used with variable speed drives shall have fixed sheaves. This Contractor shall provide replacement sheaves and belts as required to allow final air balancing. (This is not applicable to GC models)
- H. No equipment shall be selected or operate above 90% of its motor nameplate rating.

- I. Motor shall have 1.15 service factor.

2.5 BURNER

- A. Gas Burner: Induced draft type burner with adjustable combustion air supply, pressure regulator, gas valves, manual shutoff, intermittent spark or glow coil ignition, flame sensing device, and automatic 100 percent shutoff pilot. Single stage or Two stage.
- B. Gas Burner Safety Controls: Energize ignition, limit time for establishment of flame, prevent opening of gas valve until pilot flame is proven, stop gas flow on ignition failure, energize blower motor, and after airflow proven and slight delay, allow gas valve to open.
- C. High Limit Control: Temperature sensor with fixed stop at maximum permissible setting, de-energize burner on excessive bonnet temperature and energize burner when temperature drops to lower safe value.
- D. Supply Fan Control: Temperature sensor sensing bonnet temperatures and independent of burner controls, or adjustable time delay relays with switch for continuous fan operation.

2.6 EVAPORATOR COIL

- A. Provide copper tube with aluminum fin coil assembly.
- B. Install a drain pan under each cooling coil meeting requirements as outlined in ASHRAE 62.1. The drain pans shall extend the entire width of each coil, including piping and header if in the air stream. The length shall be as necessary to limit water droplet carryover beyond the drain pan to 0.0044oz per ft² of face area per hour under peak sensible and peak dew point design conditions, considering both latent load and coil face velocity. Pitch drain pans in two directions towards the outlet, with a slope of at least 1/8" per foot.
- C. Provide capillary tubes or thermostatic expansion valves for units of 6 tons capacity and less, and thermostatic expansion valves and alternate row circuiting for units 7.5 tons cooling capacity and larger.
- D. Provide insulation on liquid refrigerant and suction piping between compressor and evaporator coil where not protected by drain pans. Insulation shall be elastomeric cellular foam; ANSI/ASTM C534; flexible plastic; 0.27 maximum 'K' value at 75°F, 25/50 flame spread/smoke developed rating when tested in accordance with ASTM E84 (UL 723). Maximum 1" thick per layer where multiple layers are specified.

2.7 COMPRESSOR

- A. Provide hermetic or semi-hermetic compressors (quantity as scheduled on drawings), 3600 rev/min maximum, resiliently mounted with positive lubrication, high and low pressure safety controls, motor overload protection, suction and discharge service valves and gauge ports, and filter drier.
- B. Five minute timed off circuit shall delay compressor start.
- C. Outdoor thermostat shall energize compressor above 50°F ambient.
- D. The use of chlorofluorocarbon (CFC)-based refrigerants is prohibited.

2.8 CONDENSER

- A. Provide copper tube aluminum fin coil assembly with sub-cooling rows.

- B. Provide direct drive propeller fans, resiliently mounted with fan guard, motor overload protection, wired to operate with compressor.
- C. Provide refrigerant pressure switches to cycle condenser fans.

2.9 MIXING SECTION

- A. Dampers: Provide outside and return, with damper operator and control package to automatically vary outside air quantity. Outside air damper shall fail to closed position.
- B. Gaskets: Provide tight fitting dampers with edge gaskets, maximum leakage 5 percent at 2 inches pressure differential. Gaskets must be mechanically fastened (use of adhesive alone shall not be acceptable).
- C. Damper Operator: 24 volt with gear train sealed in oil, with spring return on units 7.5 tons cooling capacity and larger.

2.10 ECONOMIZERS

- A. Factory installed by approved rooftop unit manufacturer with fully modulating motorized outside air and return air dampers.
- B. To be controlled by differential enthalpy controller with minimum position setting.
- C. Shall be equipped with 100% capable relief barometric damper relieving up to 100% return air and sealed to meet ASHRAE 90.1 requirements.
- D. Shall be capable of introducing up to 100% outside air.
- E. Shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
- F. Dampers shall be capable of completely closing when unit is in unoccupied mode.
- G. Outside air damper normally closed and return air damper normally open.
- H. Provide economizer components and controls in accordance with ICC IECC.

2.11 POWER EXHAUST

- A. Combination power exhaust and economizer: Factory installed by economizer supplier or compatible equivalent.
- B. Modulating type.
- C. Controlled by economizer controls.
- D. Power exhaust shall be factory wired to electrical section complete with conduit, feeders, disconnect, and overcurrent protection. Power exhaust shall be energized when dampers open past the adjustable setpoint of the economizer control.
- E. Must comply with ASHRAE 90.1 Fan Power Limitation formula.

2.12 ELECTRICAL

- A. Provide with single point power connection to service all controls, dampers, outlet, and fans, complete with non-fused disconnect switch, short circuit protection of all internal electrical components, and all necessary motor starters, contactors, and over-current protection, transformer, and convenience outlet. All units must be so constructed that when the electrical section access panel is opened, all electrical power to the unit (with the exception of the 120 volt duplex convenience outlet) is disconnected by means of a single disconnect.
- B. All wiring must be labeled, numbered, and terminate in "spade clips". All terminal strips must be keyed to the wiring numbers. Each control device must be permanently labeled to indicate its function.
- C. Wiring diagrams for all circuits must be permanently affixed to the inside of the electrical section access panel. The markings of terminal strips and wiring must agree with the numbering on the wiring diagrams.
- D. All units shall include a transformer for controls and convenience outlet.
- E. Only one power cable connection to the unit shall be necessary.
- F. Provide separate power connection to power exhaust.

2.13 DDC TEMPERATURE CONTROLS

- A. Install standalone control module providing communication between unit controls and DDC temperature control system. Control module shall be compatible with temperature control system specified in Section 23 09 00.

2.14 COATINGS:

- A. Apply marine coating by certified licensed applicator.
- B. The coating product manufacturer shall be able to document a class 5B result on a cross hatch adhesion test (ASTM D5339) and the testing for a minimum 4000 hours in both salt spray (ASTM B117) and acid salt spray (ASTM G85) test.
- C. The coating service provider shall also be able to offer a 3-year conditioned warranty for coating applied on finned-tube coils.
- D. The coating shall be applied insuring total penetration and coverage without bridging or significantly affecting the heat transfer ability of the coil.
- E. The total dry film thickness of the coating shall be 1mil.
- F. The coating shall provide inherent protection against ultra-violet radiation and have a dry temperature resistance from -4°F to 302°F.
- G. The following components shall be coated:
 - 1. Evaporator coils
 - 2. Condenser coils
 - 3. Base Rails

- 4. Exterior cabinet
- H. Acceptable Manufacturers:
 - 1. Luvata "Tropicoat" or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that roof is ready to receive work and opening dimensions are as indicated on shop drawings and illustrated by the manufacturer.
- B. Verify that proper power supply is available.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Mount units on factory built roof mounting frame providing watertight enclosure to protect ductwork and utility services. Install roof mounting frame level.
- C. All field wiring shall be in accordance with the National Electrical Code.
- D. P-traps must be provided for all drain pans.
- E. Comb all coils to repair bent fins.
- F. Install on vibration isolation as scheduled on drawings.
- G. Contractor shall coordinate unit access stair and walkway placement to ensure compliance with OSHA requirements.

3.3 MANUFACTURER'S FIELD SERVICES

- A. Provide initial start-up and shutdown during first year of operation, including routine servicing and check-out.

END OF SECTION

SECTION 23 81 26

SPLIT SYSTEM AIR CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Split system air conditioning wall, ceiling-mounted, and/or ceiling-concealed units.

1.2 SUBMITTALS

- A. Submit shop drawings under provisions of Section 23 05 00.
- B. Indicate drain, electrical, and refrigeration rough-in connections on shop drawings or product data.
- C. Submit manufacturer's installation instructions.
- D. Submit certification that split system air conditioning equipment, accessories, and components will withstand seismic forces defined in Section 23 05 50. Include the following:
 - 1. Basis for Certification: Indicate whether certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 - 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Accept units and components on site in factory protective containers, with factory shipping skids and lifting lugs. Inspect for damage.
- B. Comply with manufacturer's installation instruction for rigging, unloading, and transporting units.
- C. Protect units from weather and construction traffic by storing in dry, roofed location until units are ready for immediate installation.

1.4 REGULATORY REQUIREMENTS

- A. Conform to ANSI/NFPA 90A for the installation of computer room air conditioning units.
- B. Conform to ASHRAE 90.1 (latest published edition) - Energy Standard for Buildings Except Low-Rise Residential Buildings.

1.5 OPERATION AND MAINTENANCE DATA

- A. Submit operation and maintenance data.
- B. Include manufacturer's descriptive literature, operating instructions, installation instructions, and maintenance and repair data.

1.6 WARRANTY

- A. Provide five (5) year manufacturer's warranty on all compressors.

PART 2 - PRODUCTS

2.1 SPLIT SYSTEM WALL AND CEILING-MOUNTED UNITS

A. Acceptable Manufacturers:

- 1. Carrier
- 2. Mitsubishi
- 3. Trane

B. Manufactured Units:

- 1. Provide packaged, air-cooled, factory assembled, pre-wired and pre-piped unit consisting of cabinet, fans, filters, remote condensing unit, and controls. Wall-mounted units shall be furnished with integral wall mounting bracket and mounting hardware.
- 2. Assemble unit for wall-mounted or ceiling installation with service access required.
- 3. Performance shall be as scheduled on the drawings.
- 4. Unit shall be rated per AHRI Standards 210/240 and listed in the AHRI directory as a matched system.
- 5. Provide unit with factory-supplied cleanable air filters.
- 6. The units shall be listed by Electrical Laboratories (ETL) in accordance with UL-1995 certification and bear the ETL label.
- 7. All wiring shall be in accordance with the National Electric Code (NEC).

C. Evaporator Cabinet and Frame:

- 1. Cabinet:
 - a. Refer to schedule on drawings for mounting type (wall-mounted, or ceiling-recessed cassette).
 - b. Exposed units shall have a finished appearance with concealed refrigerant piping, condensate drain piping, and wiring connections.
- 2. Air Distribution Panel (for ceiling-mounted units): Heavy molded plastic 4-way discharge plenum with return air grille and unit filter. Designed for installation into T-bar ceiling system, 24" x 24" size.

D. Evaporator Fans and Motors:

1. Fans:

- a. The evaporator fan shall be direct drive with a single motor having permanently lubricated bearings.
- b. The fan shall be statically and dynamically balanced.
- c. The indoor fan shall have at least three speeds.

2. Motor:

- a. Direct driven, digitally controlled with multiple speeds. Permanently lubricated with internal overload protection.

E. Evaporator Coils (Direct Expansion):

1. Direct expansion cooling coil of seamless copper tubes expanded into aluminum fins.
2. Single refrigeration circuit with externally equalized expansion valve.
3. Coils shall be pressure tested at the factory.
4. A sloped, corrosion-resistant condensate pan with drain shall be provided under the coil.

F. Electrical Panel:

1. Service Connections, Wiring, and Disconnect Requirements: Conform to the National Electrical Code and local electrical codes.

G. Control:

- a. The unit shall have a hard-wired 7-day programmable remote controller to operate the system. Provide wall mounting bracket for controller.
- b. Remote controller shall have "automatic", "dry" (dehumidification), and "fan only" operating modes.
- c. The remote controller shall have the following features:
 - 1) *On/Off* power switch.
 - 2) *Mode Selector* to operate the system in auto, cool, heat, fan, or dehumidification (dry) operation.
 - 3) *Fan Setting* to provide multiple fan speeds.
 - 4) *Swing Louver* for adjusting supply louver discharge.
 - 5) *On/Off Timer* for automatically switching the unit off or on.
 - 6) *Temperature Adjustment* allows for the increase or decrease of the desired temperature.
 - 7) *Powerful Operation* to allow quick cool down or heating up in the desired space to achieve maximum desired temperature in the shortest allowable time.
- d. The remote controller shall perform fault diagnostic functions that may be system related, indoor or outdoor unit related depending on the fault code.

- e. Temperature range on the remote controller shall be 64°F to 90°F in cooling mode and 50°F to 86°F in heating mode.
 - f. The indoor unit microprocessor shall have the capability to receive and process commands via return air temperature and indoor coil temperature sensors enabled by commands from the remote controller.
- H. Outdoor Unit:
- 1. General:
 - a. The outdoor unit shall be specifically matched to the corresponding indoor unit size. The outdoor unit shall be completely factory assembled and pre-wired with all necessary electronic and refrigerant controls.
 - 2. Cabinet:
 - a. The outdoor unit shall be fabricated of galvanized steel, bonderized and coated with a baked enamel finish for corrosion protection.
 - 3. Fan:
 - a. The fan shall be direct drive, propeller type fan with fan guard.
 - b. Fan blades shall be statically and dynamically balanced.
 - c. The fan shall have permanently lubricated type bearings.
 - d. Motor shall be protected by internal thermal overload protection.
 - e. Airflow shall be horizontal discharge.
 - 4. Coil:
 - a. The outdoor coil shall be nonferrous construction with corrugated fin tube.
 - b. The coil shall be protected with an internal guard.
 - c. Refrigerant flow from the condenser shall be controlled via a metering device.
 - 5. Compressor:
 - a. Hermetic or scroll refrigerant compressors with resilient suspension system, oil strainer, sight glass/moisture indicator, internal motor protection, high pressure switch, and crankcase heater.
 - b. The outdoor unit shall have an accumulator and four-way reversing valve.
 - 6. Refrigerant:
 - a. Unit shall use R-410a.
 - b. The use of chlorofluorocarbon (CFC)-based refrigerants is prohibited.
- I. Condensate Pump: Provide condensate pump.
- J. Refrigerant Piping:
- 1. Design Pressure: 450 psig.
 - 2. Maximum Design Temperature: 250 F.

3. Piping - 4" and under.
 - a. Tubing: Type ACR seamless copper tube linesets, ASTM B1003. Sizes indicated are nominal designation.
 - b. Joints: Brazed with silver solder.
 - c. Fittings: Wrought copper solder joint, ANSI B16.22.
 - d. Special Requirements: All tubing shall be cleaned, dehydrated, pressurized with dry nitrogen, plugged, and tagged by manufacturer "for refrigeration service". During brazing operations, continuously purge the interior of the pipe with nitrogen to prevent oxide formation.
4. Insulation:
 - a. EPDM (NBR/PVC Blend is not permitted) elastomeric cellular foam; ANSI/ASTM C534; flexible plastic; 0.25 maximum 'K' value at 75°F, 25/50 flame spread/smoke developed rating when tested in accordance with ASTM E84 (UL 723). Minimum 1/2" thick for pipe sizes < 1-1/4" and 3/4" thick for pipe sizes 1-1/4" and above.

K. COATINGS:

- a. Apply marine coating by certified licensed applicator.
- b. The coating product manufacturer shall be able to document a class 5B result on a cross hatch adhesion test (ASTM D5339) and the testing for a minimum 4000 hours in both salt spray (ASTM B117) and acid salt spray (ASTM G85) test.
- c. The coating service provider shall also be able to offer a 3-year conditioned warranty for coating applied on finned-tube coils.
- d. The coating shall be applied insuring total penetration and coverage without bridging or significantly affecting the heat transfer ability of the coil.
- e. The total dry film thickness of the coating shall be 1mil.
- f. The coating shall provide inherent protection against ultra-violet radiation and have a dry temperature resistance from -4°F to 302°F.
- g. The following components shall be coated:
 1. Condenser coils
 2. Exterior cabinet
 3. Base Rails
1. Acceptable Manufacturers: Luvata "Tropicoat" or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that proper power supply is available.

3.2 INSTALLATION

A. General Installation Requirements:

1. Install units in accordance with manufacturer's instructions. Install all units level and plumb. Indoor units shall be installed using manufacturer's standard mounting hardware securely fastened to building structure.
2. Refer to Section 23 05 29 for roof support rails for outdoor unit.
3. Coordinate the exact mounting location of all indoor and outdoor units with architectural and electrical work. Coordinate installation of ceiling-mounted units with ceiling grid layout. Provide additional ceiling grid reinforcement or modification as required and coordinate the work with the GC. Locate the indoor unit where it is readily accessible for maintenance and filter changes. Where outdoor units are located on the roof, locate at least 10' from the roof edge.
4. Verify locations of wall-mounted remote controllers with drawings and room details before installation. Coordinate mounting heights to be consistent with other wall-mounted devices. Height above finished floor shall not exceed 48".

B. Refrigerant Piping:

1. Install refrigerant piping from the indoor unit(s) to the condensing unit. Refrigerant pipe sizes, lengths, specialties and configurations shall be as recommended by the manufacturer. Evacuate refrigerant piping and fully charge system with refrigerant per manufacturer's requirements.
2. Provide weather-tight insulated roof curb to accommodate refrigerant piping and conduit roof penetrations.
3. Insulate all refrigerant piping. Both liquid and suction lines shall be insulated between the indoor and outdoor units.

C. Condensate Removal:

1. Install condensate piping with trap and route from drain pan to nearest drain. Discharge to nearest code-approved receptor or to a properly vented indirect waste fitting. Flush all piping before making final connections to units.

D. Comb all coils to repair bent fins.

E. Install new filters in the unit at Substantial Completion.

F. A factory-authorized service agent shall assist in commissioning the unit and inspecting the installation prior to startup. Submit startup report with O&M manuals.

END OF SECTION

SECTION 23 81 45

VARIABLE REFRIGERANT FLOW HEAT PUMPS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Variable refrigerant flow split system heat pump (heat/cool).
- B. Variable refrigerant flow split system heat pump with heat recovery (simultaneous heat/cool).

1.2 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 23 05 00.
- B. Indicate water, drain, and electrical rough-in connections on shop drawings or product data.
- C. Submit manufacturer's installation instructions.
- D. Submit manufacturer's warranty information.
- E. Submit installing contractor's manufacturer training certification.
- F. Submit refrigerant charge. Charge calculation should be based on installed piping lengths and equipment capacities.
- G. VRF Piping Layout Drawings:
 - 1. Submit detailed VRF piping layout drawings at 1/8" = 1'-0" minimum scale complete with the following information:
 - a. Actual pipe routing, fittings, hanger and support types, accessories, etc. with lengths and refrigerant charge noted.
 - b. Include insulation thickness and type of insulation.
 - c. Room names and numbers, ceiling types, and ceiling heights.
 - d. Indicate location of all beams, bar joists, etc., along with bottom of steel elevations, for each member.
 - 2. Submit VRF piping and equipment layout drawings. Verify clearances and interferences with other trades prior to preparing drawings. IMEG will provide electronic copies of piping drawings for Contractor's use if the Contractor signs and returns an "Electronic File Transfer" waiver provided by IMEG. IMEG will not consider blatant reproductions of original file copies an acceptable alternative for this submittal. Submittals shall be in accordance with Section 23 05 00.
- H. Submit Controls Diagrams:
 - 1. Wiring diagrams and layouts for each control panel showing all termination numbers.

2. Schematic diagrams for all control, communication, and power wiring. Provide a schematic drawing of the central system installation. Show all interface wiring to the control system.
 3. Schematic diagrams for all field sensors and controllers.
 4. A schematic diagram of each controlled system. The schematics shall have all control points labeled. The schematics shall graphically show the location of all control elements in the system.
 5. A schematic wiring diagram for each controlled system. Each schematic shall have all elements labeled. Label all terminals.
 6. All installation details and any other details required to demonstrate that the system will function properly.
 7. All interface requirements with other systems.
- I. Sequences: Submit a complete description of the operation of the control system, including sequences of operation. The description shall include and reference a schematic diagram of the controlled system. **The wording of the control sequences in the submittal shall match verbatim that included in the construction documents to ensure there are no sequence deviations from that intended by the Architect/Engineer. Clearly highlight any deviations from the specified sequences on the submittals.**
 - J. Control System Demonstration and Acceptance: Provide a description of the proposed process, along with all reports and checklists to be used.
 - K. Clearly identify work by others in the submittal.
 - L. Quantities of items submitted may be reviewed but are the responsibility of the Contractor to verify.
- 1.3 DELIVERY STORAGE AND HANDLING
- A. Protect finished cabinets from physical damage by leaving factory packing cases in place before installation and providing temporary covers after installation.
- 1.4 OPERATION AND MAINTENANCE DATA
- A. Submit operation and maintenance data.
 - B. Include manufacturer's descriptive literature, operating instructions, installation instructions, and maintenance and repair data.
- 1.5 WARRANTY
- A. Installing contractor shall perform tasks required by manufacturer to ensure maximum available warranty is achieved. This will include but is not limited to:
 1. System design performed by manufacturer certified designer.
 2. System installation performed by manufacturer certified installer.
 3. Complete system commissioning paperwork and submit to manufacturer.
 - B. Provide minimum five (5) year manufacturer's parts warranty (one-year basic warranty plus four-year extended warranty) on all parts (excluding compressors) and one (1) year labor warranty.

- C. Provide minimum five (5) year manufacturer's compressor parts warranty.
- D. Contractor shall provide one (1) year parts and labor warranty on the associated controls system, including all devices, wiring, and programming.

1.6 DEMONSTRATION

- A. Engage manufacturer or factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain individual units and complete system.

PART 2 - PRODUCTS:

2.1 ACCEPTABLE MANUFACTURERS

- A. Toshiba Carrier
- B. Mitsubishi

2.2 SYSTEM DESCRIPTION

- A. The variable capacity, heat recovery, heat pump air conditioning system shall be a variable refrigerant flow split system. The system shall consist of multiple evaporators using PID control and inverter driven outdoor unit. The unit shall consist of direct expansion (DX), air-cooled heat pump air conditioning system, and variable speed driven compressor multi zone split system.
- B. Outdoor Unit - General: The outdoor unit is designed specifically for use with the manufacturer's components:
 - 1. Refrigerant: R410A.
 - 2. The outdoor unit shall be factory assembled and pre-wired with all necessary electronic and refrigerant control. The refrigeration circuit of the outdoor unit shall consist of a compressor, motors, fans, condenser coil, electronic expansion valves, oil separators, service ports, liquid receivers, and accumulators.
 - 3. All refrigerant lines shall be individually insulated between the outdoor and indoor units.
 - 4. The connection ratio of the nominal capacity of indoor units to outdoor unit shall be 50-130%.
 - 5. The sound pressure shall be no greater than 63 dBA at 4 feet from the outdoor unit at full load at fan height.
 - 6. The system shall automatically restart operation after a power failure and shall not cause any settings to be lost, thus eliminating the need for re-programming.
 - 7. The following safety devices shall be included on the outdoor unit: high pressure switch, control circuit fuses, crankcase heaters, fusible plug, high pressure switch, overload relay, inverter overload protector, thermal protectors for compressor and fan motors, over current protection for the inverter and anti-recycling timers. To ensure the liquid refrigerant does not flash when supplying to the various indoor units, the circuit shall be provided with a sub-cooling feature. Oil recovery cycle shall be automatic as required to maintain oil levels at the outdoor unit.

8. The outdoor unit shall be able to operate in heating mode to -4°F dry bulb ambient temperature without additional ambient controls.
 - a. Heating capacity at design condition of -5°F shall be no less than 50% of the value scheduled on the drawings
9. The outdoor unit shall have air cooled heat exchange coils constructed from copper tubing with aluminum fins. The coils shall be capable of being divided into sections to enable the outdoor unit to match the capacity required by the indoor units and to allow individual defrosting to take place as required.
10. The outdoor unit shall have at least one inverter controlled compressor and at least one high efficiency constant speed compressor, depending on scheduled capacity. The system shall use a control sequence to ensure that indoor loads are matched to the compressor capacity control.
11. The refrigeration process of the outdoor unit will be maintained by pressure and temperature sensors controlling solenoid valves, check valves, and bypass valves. The heating or cooling mode of the outdoor unit will be controlled using a combination of 2 and 3-way valves that shall reverse the cycle of the refrigerant to change the mode of the outdoor unit.
12. Unit Cabinet: The outdoor unit model shall be completely weatherproof and corrosion resistant. The outdoor unit shall be constructed from steel plate and treated with an anti-corrosive paint.
13. Fan:
 - a. The outdoor unit shall consist of propeller type, direct-drive fan motors that have multiple speed operation via a DC inverter.
 - b. The fans shall be a vertical discharge. The fan motors shall have inherent protection and permanently lubricated bearings.
 - c. The fans shall be provided with fan guards.
14. Condenser Coil: The condenser coil shall be manufactured from copper tubes expanded into aluminum fins to form a mechanical bond.
15. Compressor:
 - a. The variable speed compressor shall be capable of changing the speed to follow the variations in total cooling load as determined by the suction gas pressure as measured in the outdoor unit.
 - b. The inverter driven compressor in each outdoor unit shall be DC, hermetically sealed, scroll type.
 - c. The capacity control range shall be a minimum of 20% to 100% of total capacity.
 - d. Each compressor shall be equipped with a crankcase heater, high pressure safety switch, and internal thermal overload protector.

- e. Oil separators shall be standard with the equipment, together with an oil balancing circuit.
- f. The compressor shall be mounted to avoid the transmission of vibration.

C. Branch Selector:

- 1. The unit shall be constructed from galvanized steel plate and be internally insulated with polyurethane foam. The connection to the system shall be either via brazed connection or flare nuts.
- 2. The unit shall be connected to the indoor units or group of indoor units via its own dedicated connection. This connection shall supply power and control signals to the solenoid valves in the unit.
- 3. The unit shall have integral controls and be factory assembled, wired, and piped.
- 4. The unit shall include an integral drain pan and condensate pump as required.
- 5. The unit electrical power shall be 208-230V/1-phase/60Hz or as noted on the drawings.
- 6. Provide unit with at least two (2) additional unused connections for future expansion and maintenance. Provide isolation valves and caps on unused connections.

D. Oil Recovery System:

- 1. System shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping.
- 2. System shall be designed for proper oil return to compressor, along with distribution of oil to individual compressor.

E. Indoor Units:

- 1. General – Each indoor unit shall have a heat exchanger that shall be constructed from copper tubing with aluminum fins. The flow of refrigerant through the heat exchanger shall be controlled by an electronic modulating expansion valve. This valve shall be controlled by internal temperature sensors and shall be capable of controlling the variable capacity of the indoor unit between at least 25% and 100%. The units shall be shipped from the factory fully charged with dehydrated air.
- 2. Four-way Ceiling-Recessed Cassette:
 - a. The indoor unit shall be a ceiling cassette for installation into the ceiling cavity, equipped with an air panel grille as scheduled and specified in this section. The indoor unit shall have four-way air distribution and an ivory white, impact resistant, washable decoration panel. The supply air shall be distributed via motorized louvers that can be horizontally and vertically adjusted from 0° to 90° angle.
 - b. Acoustic Performance: The indoor units' sound pressure shall not exceed 33 dBA at low speed measured at 5 feet from the unit.

c. Construction:

- 1) The indoor unit shall be completely factory assembled and tested. The unit shall include factory wiring, piping, electronic modulating expansion valve, control circuit board, fan motor thermal protector, flare connections, condensate drain pan, condensate drain pump, self-diagnostics, auto-restart function, 3-minute fused time delay, and test run switch.
- 2) The 4-way supply airflow shall be field modifiable to 3-way and 2-way airflow to accommodate various installation configurations, including corner installations.
- 3) Return air shall be through the concentric panel, which shall include a filter.
- 4) The indoor units shall be equipped with a return air thermistor.
- 5) The indoor unit shall be separately powered.

d. Unit Cabinet:

- 1) The cabinet shall be space saving and shall be recessed into the ceiling.
- 2) Provide fresh air intake kit where used and indicated on the drawings. A branch duct knockout shall exist for branch ducting supply air.
- 3) The cabinet shall be constructed with sound absorbing foamed polystyrene and polyethylene insulation.

e. Fan:

- 1) The fan shall be direct-drive type, with statically and dynamically balanced impeller with high and low fan speeds available.
- 2) The fan motor shall be thermally protected.

f. Filter: The return air shall be filtered by a washable long-life filter with mildew proof resin.

g. Coil:

- 1) Coils shall be of the direct expansion type, constructed from copper tubes expanded into aluminum fins to form a mechanical bond.
- 2) The refrigerant connections shall be flare connections and the condensate shall be coordinated with piping material specified in Section 23 21 00.
- 3) A condensate pump with at least 18 inches lift shall be located below the coil in the condensate pan, with a built-in high-level safety alarm to shut down the unit.
- 4) A thermistor shall be located on the liquid and gas line.

3. Ceiling Concealed Ducted (Low Static Pressure):
- a. The indoor unit shall be a built-in ceiling concealed indoor unit, low static pressure (LSP), for installation into the ceiling cavity. The unit shall be constructed of a galvanized steel casing to be connected to a heat pump outdoor unit. The indoor unit shall be manufactured for ducted horizontal discharge air, with ducted horizontal return air or bottom return air configuration (as scheduled or shown on the drawings). The external static pressure shall be as scheduled on the drawings.
 - b. Acoustic Performance: The indoor units' sound pressure shall not exceed 31 dBA at low speed 5 feet from the unit.
 - c. Construction:
 - 1) The indoor unit shall be completely factory assembled and tested. The unit shall include factory wiring, piping, electronic modulating expansion valve, control circuit board, fan motor thermal protector, flare connections, condensate drain pan, condensate drain pump, self-diagnostics, auto-restart function, 3-minute fused time delay, and test run switch.
 - 2) The indoor units shall be equipped with a return air thermistor.
 - 3) The indoor unit shall be separately powered.
 - 4) The switch box shall be reached from the side or bottom for ease of service and maintenance.
 - d. Unit Cabinet:
 - 1) The cabinet shall be in the ceiling and ducted to the supply and return openings.
 - 2) The cabinet shall be constructed with sound absorbing foamed polystyrene and polyethylene insulation.
 - e. Fan:
 - 1) The fan shall be direct-drive type, with statically and dynamically balanced impeller with high and low fan speeds.
 - 2) The fan motor shall be thermally protected.
 - f. Filter: The return air shall be filtered by means of a washable long-life filter with mildew proof resin.
 - g. Coils:
 - 1) Coils shall be of the direct expansion type, constructed from copper tubes expanded into aluminum fins to form a mechanical bond.
 - 2) The refrigerant connections shall be flare connections, and the condensate shall be coordinated with piping material.

- 3) A condensate pump with at least 18 inches of lift shall be located below the coil in the condensate pan, with a built-in high-level safety alarm to shut down the unit.
 - 4) A thermistor shall be located on the liquid and gas line.
4. Ceiling Concealed Ducted (High Static Pressure):
- a. The indoor unit shall be a built-in ceiling concealed indoor unit, high static pressure (HSP), for installation into the ceiling cavity. The unit shall be constructed of a galvanized steel casing to be connected to a heat pump outdoor unit. The indoor unit shall be manufactured for ducted horizontal discharge air, with ducted horizontal return air or bottom return air configuration (as scheduled or shown on the drawings). The external static pressure shall be as scheduled on the drawings.
 - b. Acoustic Performance: The indoor units' sound pressure shall not exceed 31 dBA at low speed 5 feet from the unit.
 - c. Construction:
 - 1) The indoor unit shall be completely factory assembled and tested. The unit shall include factory wiring, piping, electronic modulating expansion valve, control circuit board, fan motor thermal protector, flare connections, condensate drain pan, condensate drain pump, self-diagnostics, auto-restart function, 3-minute fused time delay, and test run switch.
 - 2) The indoor units shall be equipped with a return air thermistor.
 - 3) The indoor unit shall be separately powered.
 - 4) The switch box shall be reached from the side or bottom for ease of service and maintenance.
 - d. Unit Cabinet:
 - 1) The cabinet shall be in the ceiling and ducted to the supply and return openings.
 - 2) The cabinet shall be constructed with sound absorbing foamed polystyrene and polyethylene insulation.
 - 3) The cabinet shall be factory insulated for use in unconditioned indoor spaces.
 - e. Fan:
 - 1) The fan shall be direct-drive type, with statically and dynamically balanced impeller with high and low fan speeds.
 - 2) The fan motor shall be thermally protected.
 - f. Filter: The return air shall be filtered by means of a washable long-life filter with mildew proof resin.

- g. Coils:
 - 1) Coils shall be of the direct expansion type, constructed from copper tubes expanded into aluminum fins to form a mechanical bond.
 - 2) The refrigerant connections shall be flare connections, and the condensate shall be coordinated with piping material specified in Section 23 21 00.
 - 3) A condensate pump with at least 18 inches of lift shall be located below the coil in the condensate pan, with a built-in high-level safety alarm to shut down the unit.
 - 4) A thermistor shall be located on the liquid and gas line.

2.3 PIPING

- A. Design Pressure: 450 psig.
 - 1. Maximum Design Temperature: 250 F.
- B. Piping - 4" and under.
 - 1. Tubing: Type ACR hard drawn seamless copper tube, ASTM B280. Sizes indicated are nominal designation.
 - 2. Joints: Brazed with silver solder.
 - 3. Fittings: Wrought copper solder joint, ANSI B16.22.
 - 4. Special Requirements: All tubing shall be cleaned, dehydrated, pressurized with dry nitrogen, plugged and tagged by manufacturer "for refrigeration service". During brazing operations, continuously purge the interior of the pipe with nitrogen to prevent oxide formation.
- C. Insulation:
 - 1. EPDM (NBR/PVC Blend is not permitted) elastomeric cellular foam; ANSI/ASTM C534; flexible plastic; 0.25 maximum 'K' value at 75°F, 25/50 flame spread/smoke developed rating when tested in accordance with ASTM E84 (UL 723). If thickness required in Part 4 - Execution does not meet 25/50 flame spread/smoke developed rating, use multiple layers of a thickness that does meet 25/50 flame spread/smoke developed.

2.4 COATINGS:

- A. Apply marine coating by certified licensed applicator.
- B. The coating product manufacturer shall be able to document a class 5B result on a cross hatch adhesion test (ASTM D5339) and the testing for a minimum 4000 hours in both salt spray (ASTM B117) and acid salt spray (ASTM G85) test.
- C. The coating service provider shall also be able to offer a 3-year conditioned warranty for coating applied on finned-tube coils.

- D. The coating shall be applied insuring total penetration and coverage without bridging or significantly affecting the heat transfer ability of the coil.
- E. The total dry film thickness of the coating shall be 1mil.
- F. The coating shall provide inherent protection against ultra-violet radiation and have a dry temperature resistance from -4°F to 302°F.
- G. The following components shall be coated:
 - 1. Condenser coils
 - 2. Base Rails
 - 3. Exterior cabinet
- H. Acceptable Manufacturers:
 - 1. Luvata "Tropicoat" or approved equal.

PART 3 - CONTROLS

3.1 GENERAL

- A. The unit shall have controls provided with the unit by the manufacturer to perform input functions necessary to operate the system.
- B. Computerized PID control shall be used to maintain room temperature within 1°F of setpoint.
- C. The unit shall be equipped with a programmable drying cycle that dehumidifies while inhibiting changes in room temperature.
- D. The indoor circuit board shall be wired to enable auxiliary heating when at least one of the following occurs:
 - 1. Coil thermistor temperature drops below a factory setpoint in heating mode.
 - 2. Outdoor temperature drops below setpoint (adj.).
 - 3. Based on a user adjustable schedule.

3.2 SYSTEM CONTROLLER – TYPE C

- A. The controller shall control at least 50 units and shall be able to be used in conjunction with all room controller types. Collective and individual group commands are available with permit/prohibit individual remote controller function. At least five system controllers shall be able to reside on any one communication bus.

3.3 MAINTENANCE ACCESS

- A. Provide all gateways and connection cabling for performing maintenance functions on system.
- B. Provide all software and registration codes as required to allow access into advanced maintenance functions.

3.4 SEQUENCE

- A. Install a remote mounted temperature sensor.
- B. The thermostat shall stage heating or cooling as required to maintain space setpoint at 72°F (adj.).
- C. Thermostat shall automatically change the indoor unit mode based on the space setpoint.
- D. If space setpoint continues to drop once indoor unit has been changed to heating mode, the thermostat shall enable the space electric baseboard heat.
- E. Central controller shall enable dedicated outdoor unit based on an adjustable occupancy schedule. Coordinate enable/disable function with AHU manufacturer.

3.5 SYSTEM INTEGRATION

- A. The manufacturer's control system shall be capable of integrating with the building automation system with built in hardware or separate add-on interfaces. All additional devices shall be provided by the manufacturer.
- B. The system shall be compatible with BACnet. Refer to Section 23 09 00.

PART 4 - EXECUTION

4.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions. Install all piping, fittings, and insulation to meet manufacturer's requirements. Install units level and plumb. Evaporator fan components shall be installed using manufacturer's standard mounting devices securely fastened to building structure. Install and connect refrigerant tubing and fittings.
- B. Installing contractor shall attend manufacturer sponsored training to obtain installation certification.
- C. Installer shall supply isolation ball valves for zoned refrigerant isolation. Installer shall supply isolation ball valves with Schrader connection for isolating refrigerant charge and evacuation at each connected indoor unit and outdoor unit. Isolation ball valves, with Schrader connection, are required for instances of indoor unit isolation for troubleshooting, repair, or replacement without affecting the remainder of the system. Isolation ball valves with Schrader connection are also required at outdoor unit connection to isolate unit for troubleshooting, repair, or replacement and as required to provide partial capacity heating/cooling in the instance of a failure of one of the multiple outdoor unit compressors.

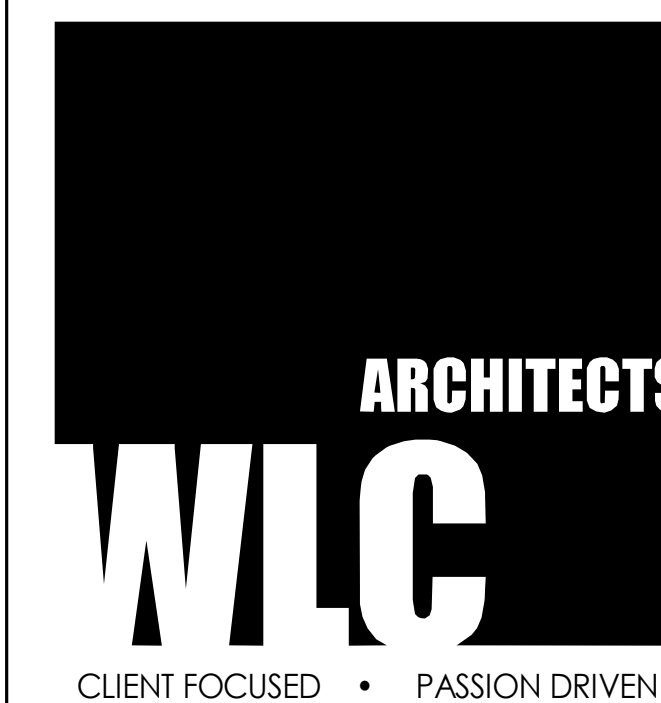
- D. Insulate all refrigerant pipes between the outdoor and indoor units. This includes the liquid pipe, the suction pipe, the hot gas pipe, and the high/low pressure gas pipe. All fittings, valves, and specialty refrigerant components in the piping between the indoor and outdoor units shall also be insulated. The insulation shall have a continuous vapor barrier and shall pass through hangers and supports unbroken. Over size hangers and supports to allow the insulation to pass through unbroken. Following are the minimum insulation thicknesses unless noted otherwise in the manufacturer’s literature or required by local AHJ:

Pipe System	Insulation Thickness
Refrigerant Gas (from branch selector to indoor unit) All sizes	1/2"
Refrigerant Suction (40°F & Above) Up to 1-1/2" 1-1/2" and up	1/2" 1"
Refrigerant High/Low Pressure Gas Up to 1" 1-1/2" and up	1-1/2" 2"
Refrigerant Liquid Up to 1-1/2" 1" and up	1" 1-1/2"

- E. Engage manufacturer or factory-authorized service representative to perform startup service. Manufacturer shall provide on-site startup and commissioning assistance through job completion. Complete installation and startup checks according to manufacturer’s written instructions.
- F. Fully charge system with refrigerant per manufacturer’s requirements.
- G. Field Quality Control:
1. Manufacturer’s Field Service: Engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including connections, and to assist in field testing.
 2. Perform the following field tests and inspections, and prepare test reports:
 - a. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - b. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - c. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- H. Coordinate installation of units with architectural and electrical work. Coordinate installation of ceiling recessed units with ceiling grid layout. Additional ceiling grid reinforcement or modification is the responsibility of the Mechanical Contractor and shall be coordinated with the General Contractor.
- I. Verify locations of wall-mounted devices (such as thermostats, temperature and humidity sensors, and other exposed sensors) with drawings and room details before installation. Coordinate mounting heights to be consistent with other wall-mounted devices. Height above finished floor shall not exceed 48”.

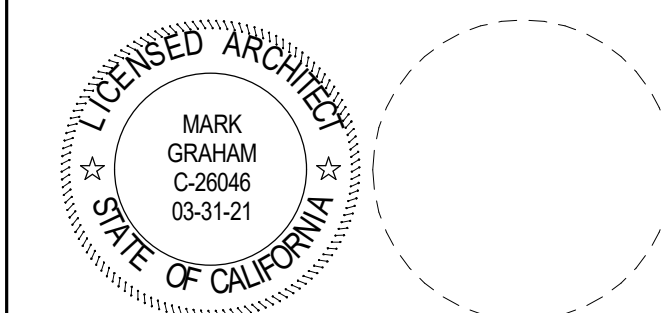
- J. Contractor is responsible for routing all condensate drains from all indoor equipment to a nearby floor drain or standpipe. If ceiling heights or space finish does not accommodate gravity drainage, Contractor is responsible for providing a condensate pump and all electrical work required.
- K. Contractor is responsible for installing VRF heat pump control system. Contractor shall coordinate with the Temperature Controls Contractor to determine extent of integration with building automation system (BAS). Equipment that is required to integrate the VRF heat pump system with the BAS is the responsibility of the VRF heat pump installing contractor. Final connections between VRF heat pump system and BAS shall be by the Temperature Controls Contractor.

END OF SECTION



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DATE: 08/25/20	SCALE: As indicated
PROJECT NUMBER: 1917100	

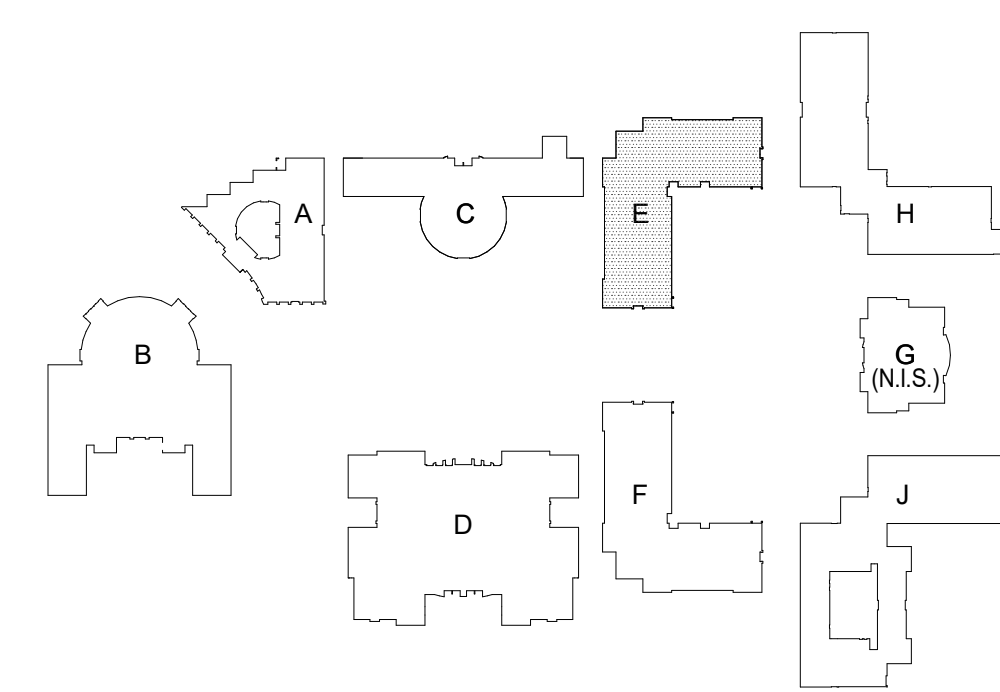
**DEMO FIRST
FLOOR CEILING
PLAN - BLDG E**

DRAWING NUMBER: **AE3.0**

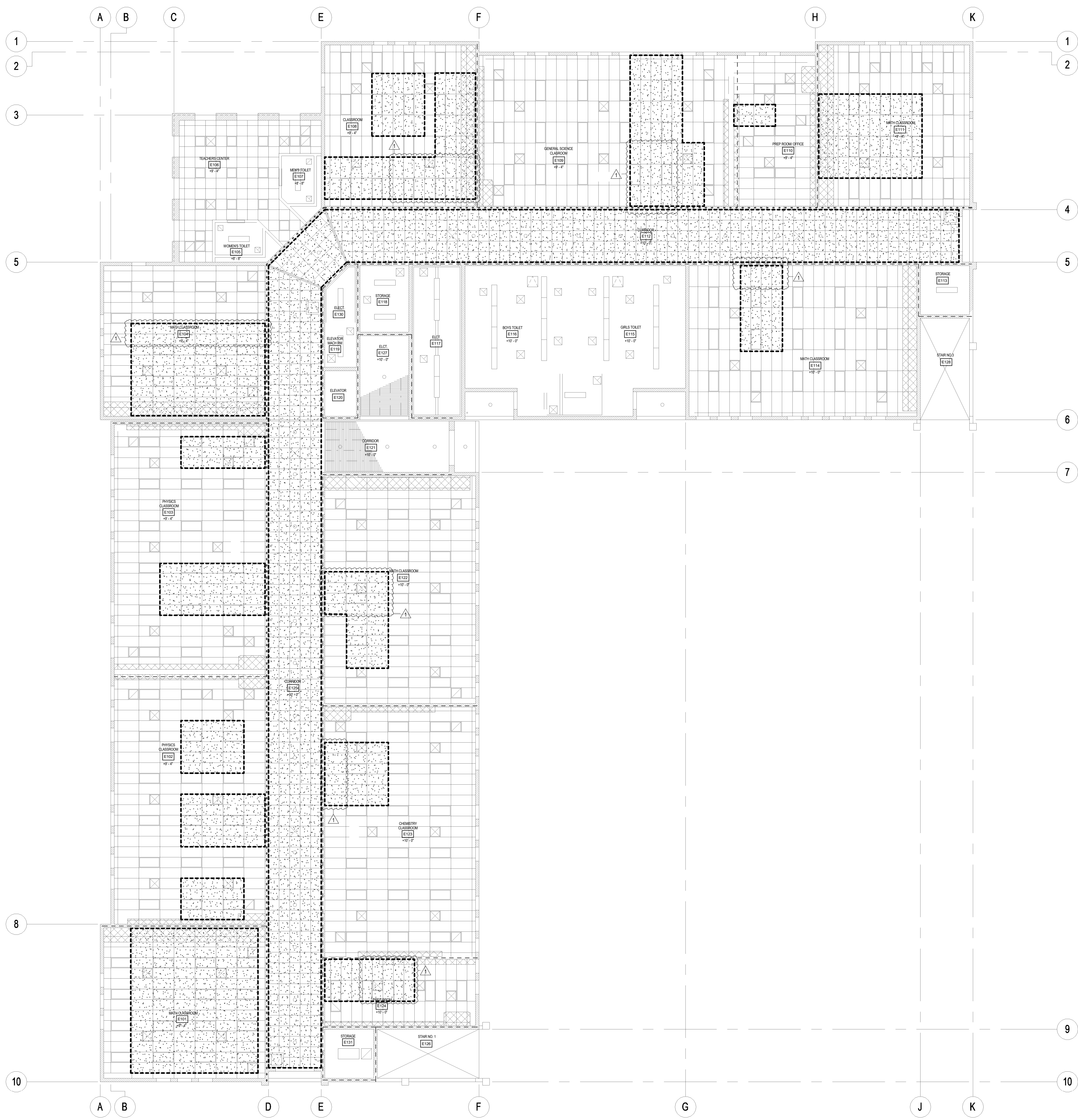
REFERENCE NOTES

KEYNOTE	DESCRIPTION
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(E)	2HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
	DEMO TYPE 1: REMOVE AND PROTECT ACOUSTICAL CEILING TILES. REINSTALL UPON COMPLETION OF HVAC WORK. DO NOT TOUCH CEILING GRID. DO NOT REMOVE LIGHT FIXTURES TYPICAL.
	DEMO TYPE 4: REMOVE EXISTING GYPSUM BOARD FROM SUSPENDED IRON CEILING. SEE DETAIL 10.119.2 FOR EXISTING CONDITION. NEATLY CUT GYPSUM ON HAT CHANNEL TYPICAL.
	GYPSUM BOARD TYP.

LEGEND



SITE KEY PLAN

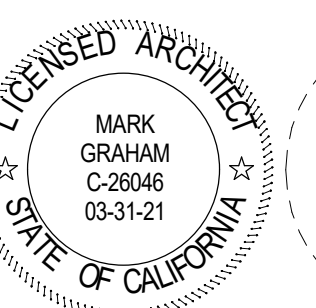


DEMO CEILING PLAN - BLDG E - 1F 1/8" = 1'-0" 1

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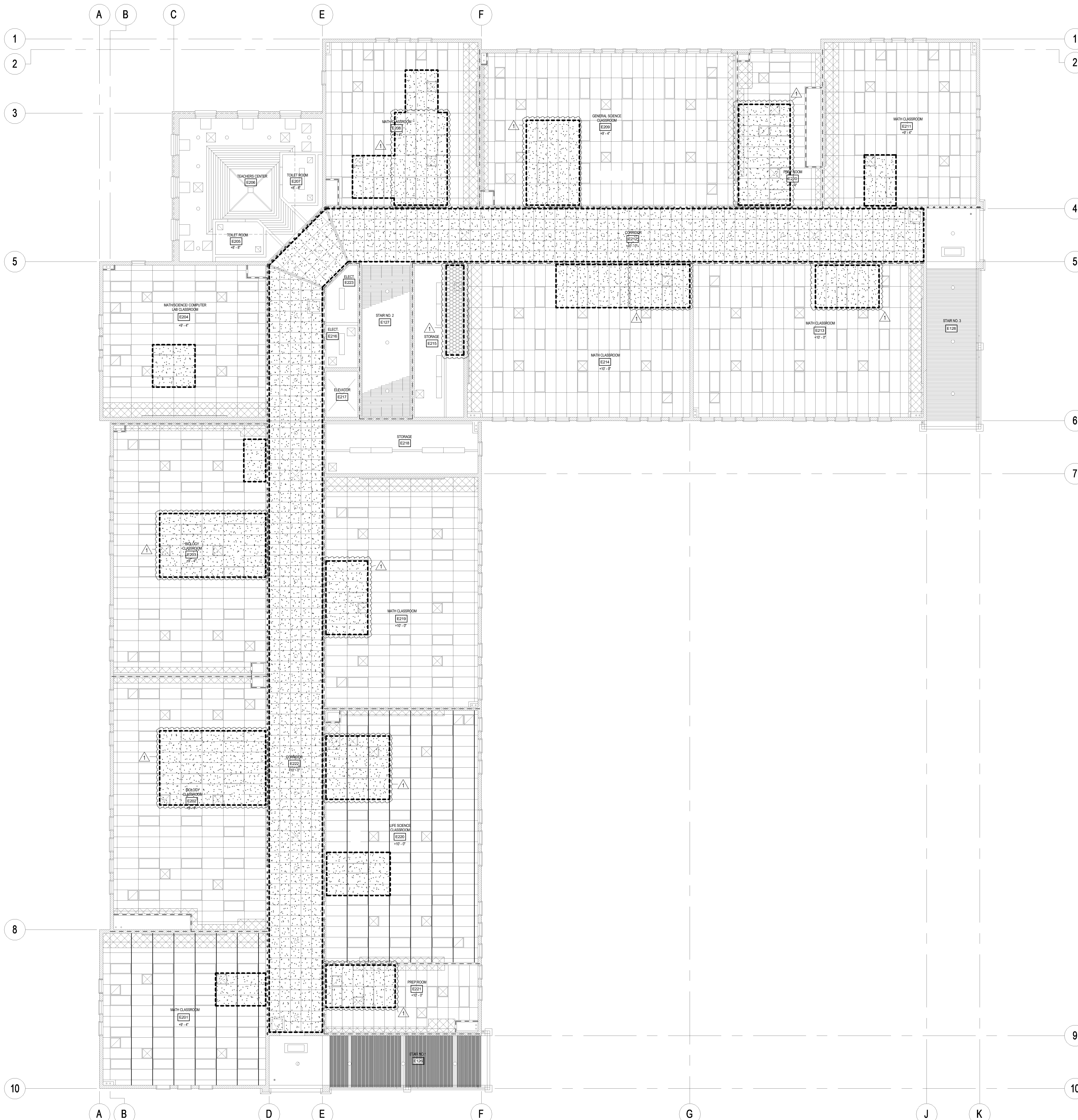
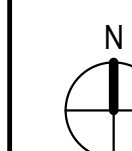
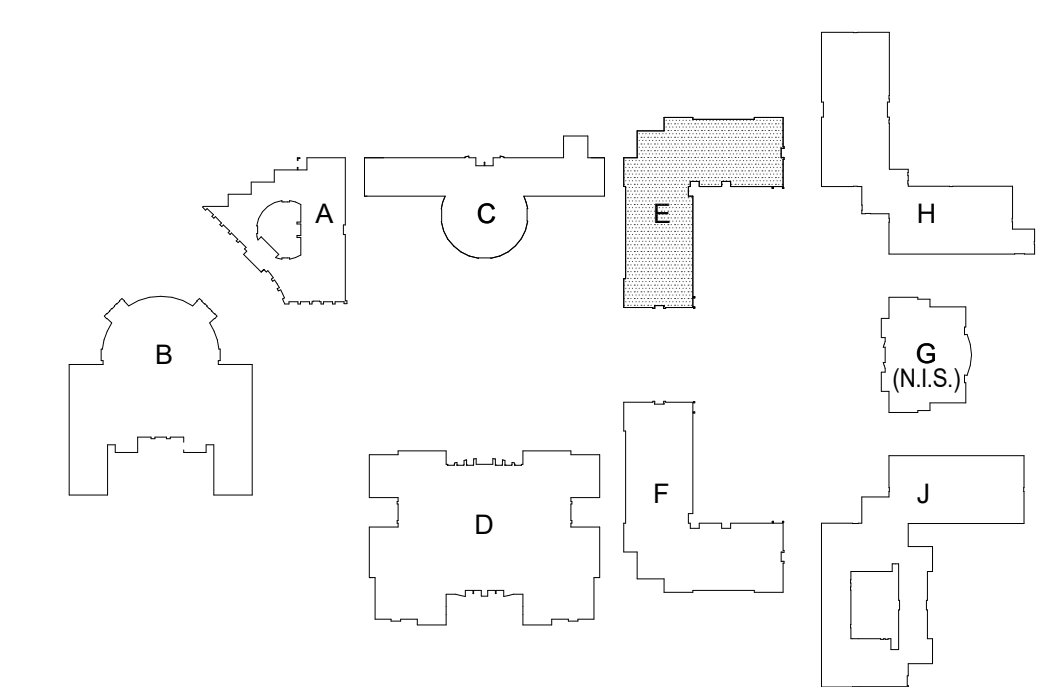
DEMO SECOND FLOOR CEILING PLAN - BLDG E

DRAWING NUMBER: **AE3.1**

REFERENCE NOTES

KEYNOTE	DESCRIPTION
(E)	1HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
(E)	2HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
(1)	DEMO TYPE 1: REMOVE AND PROTECT ACCOUSTICAL CEILING TILES. REINSTALL UPON COMPLETION OF HVAC WORK. DO NOT TOUCH CEILING GRID. DO NOT REMOVE LIGHT FIXTURES TYPICAL.
(2)	DEMO TYPE 4: REMOVE EXISTING GYPSUM BOARD FROM SUSPENDED IRON CEILING. SEE DETAIL 10.119.2 FOR EXISTING CONDITION. NEATLY CUT GYPSUM ON HAT CHANNEL TYPICAL.
(3)	GYPSUM BOARD TYP.

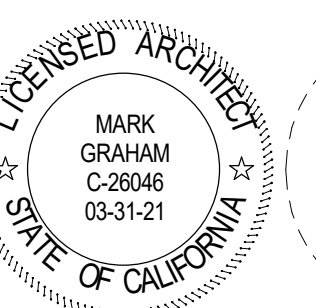
LEGEND





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**NEW FIRST
 FLOOR CEILING
 PLAN - BLDG E**

DRAWING NUMBER: **AE3.2**

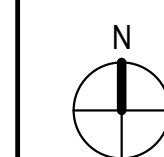
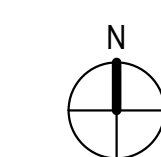
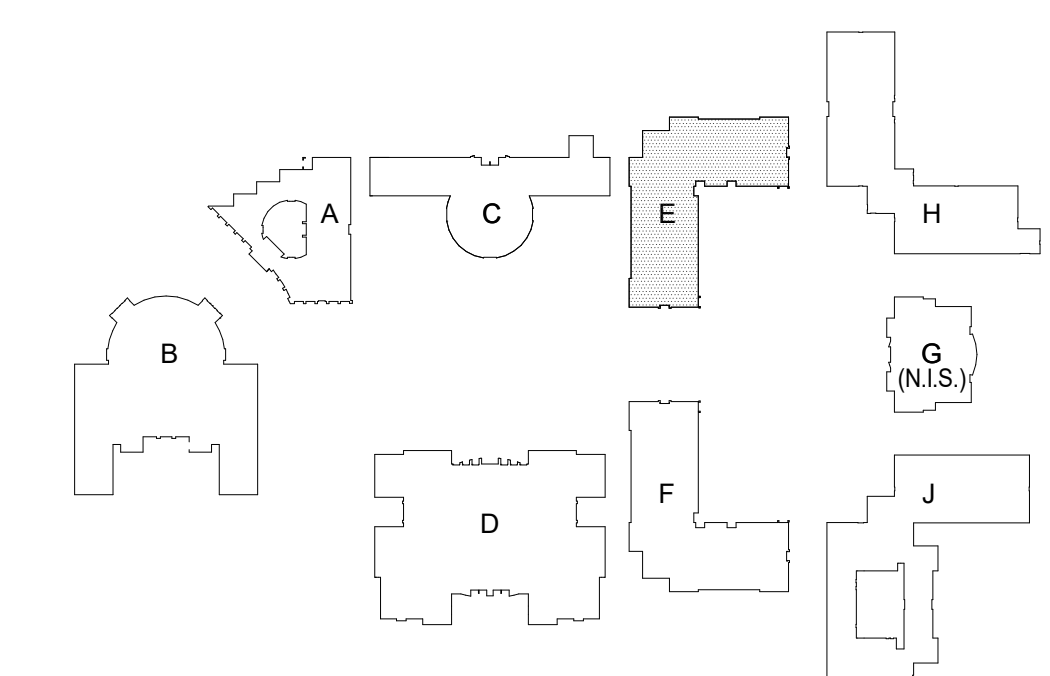
REFERENCE NOTES

KEYNOTE	DESCRIPTION
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(E) 1HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.	
(E) 2HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.	
CEILING TYPE 1: REPLACE ALL CEILING TILES BACK TO THEIR ORIGINAL LOCATION. REPLACE ALL BROKEN TILES, WATER STAINED, CHIPPED, DENTED, AND SCRATCHED WITH NEW TILES OF SIMILAR PATTERN, TEXTURE, AND COLOR. LIGHT FIXTURE TYP.	
CEILING TYPE 4: SPLICE IN NEW METAL RUNNERS AS NEEDED TO REINSTALL NEW GYPSUM BOARD TO MATCH EXISTING. TAPE, MUD, TEXTURE, PRIME, AND PAINT TO MATCH EXISTING. REPAIR ENTIRE CEILING TYPICAL. GYPSUM BOARD TYP.	

(E) 1HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.	
(E) 2HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.	
CEILING TYPE 1: REPLACE ALL CEILING TILES BACK TO THEIR ORIGINAL LOCATION. REPLACE ALL BROKEN TILES, WATER STAINED, CHIPPED, DENTED, AND SCRATCHED WITH NEW TILES OF SIMILAR PATTERN, TEXTURE, AND COLOR. LIGHT FIXTURE TYP.	
CEILING TYPE 4: SPLICE IN NEW METAL RUNNERS AS NEEDED TO REINSTALL NEW GYPSUM BOARD TO MATCH EXISTING. TAPE, MUD, TEXTURE, PRIME, AND PAINT TO MATCH EXISTING. REPAIR ENTIRE CEILING TYPICAL. GYPSUM BOARD TYP.	

LEGEND

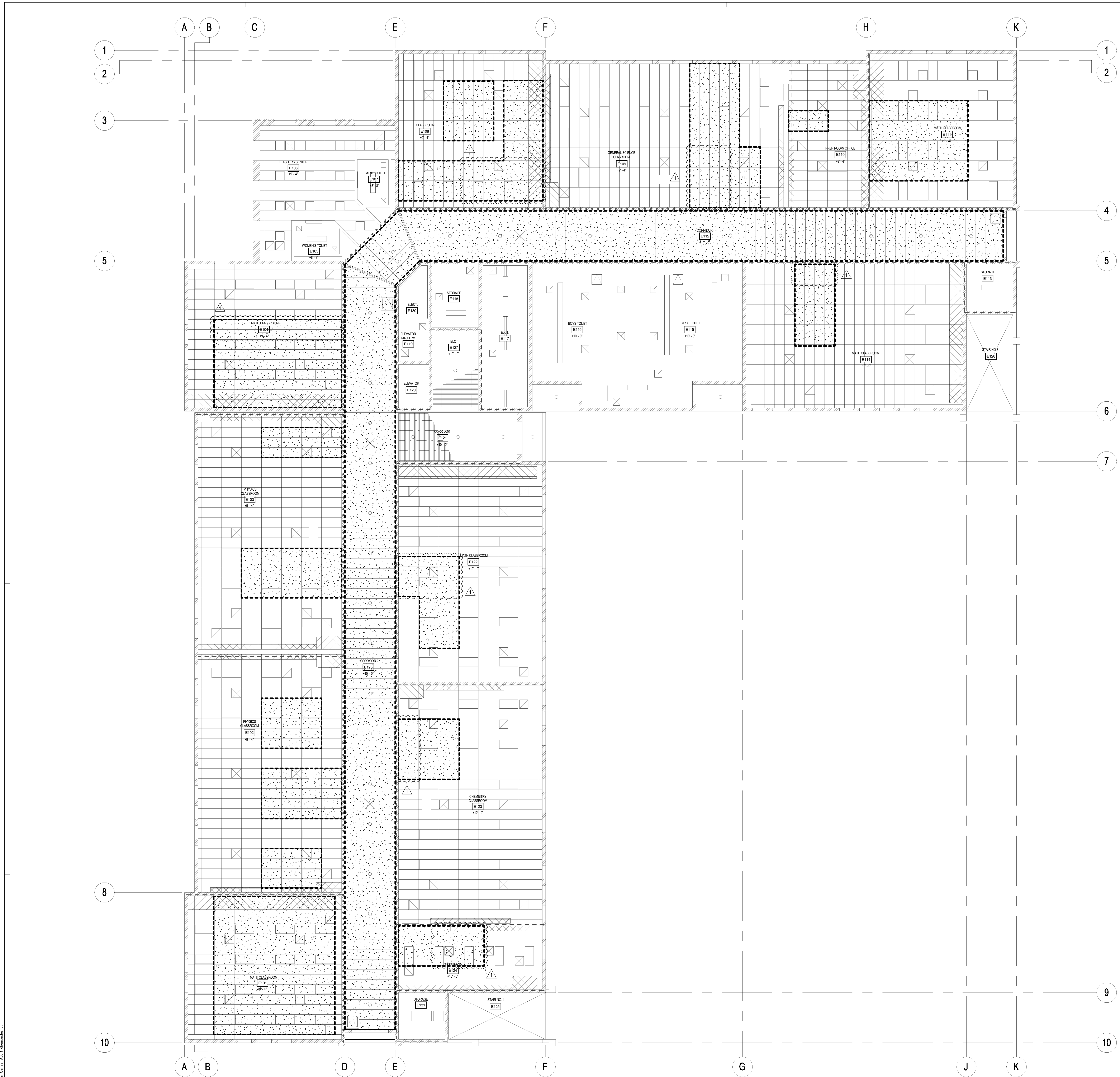


NEW CEILING PLAN - BLDG E - 1F

1/8" = 1'-0"

1

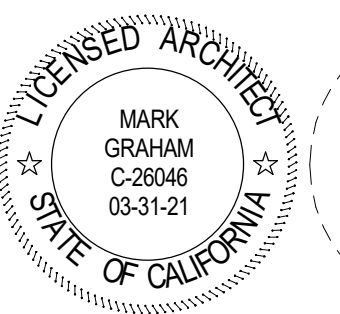
SITE KEY PLAN



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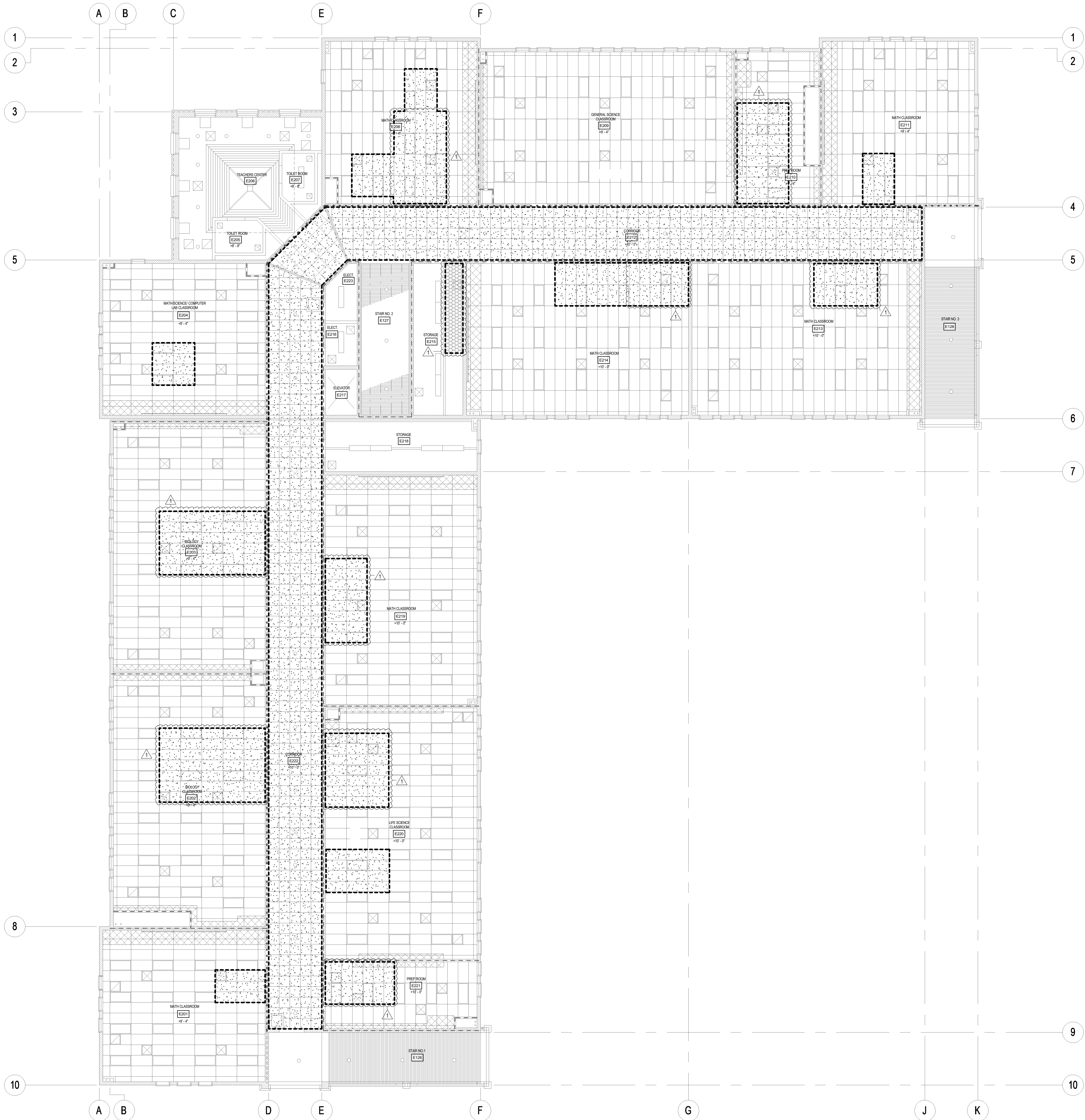
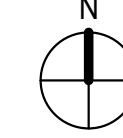
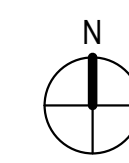
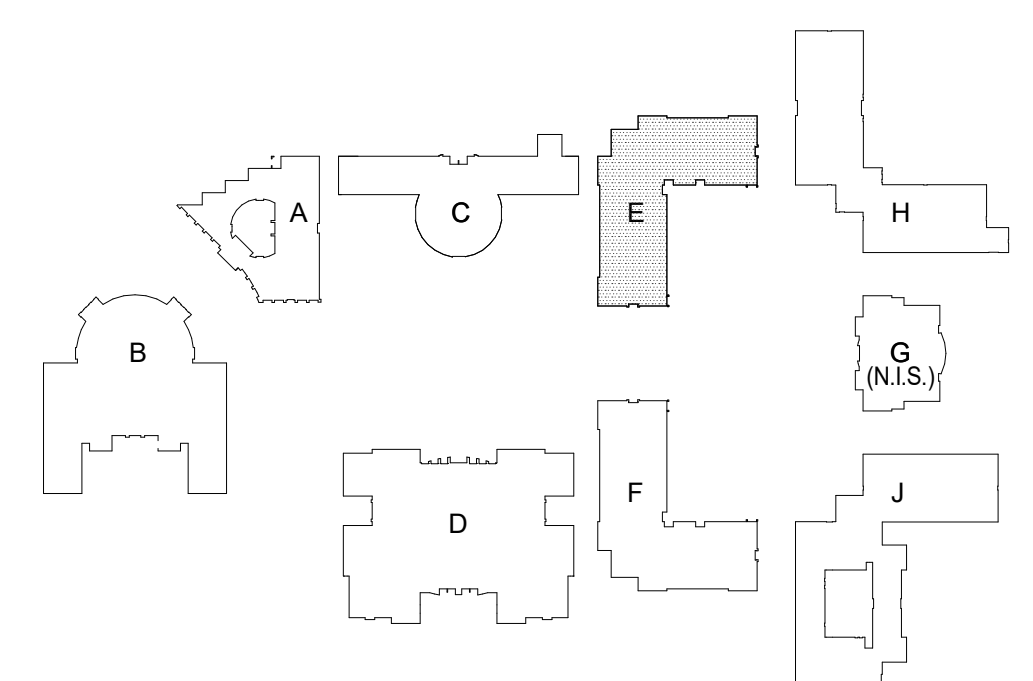
**NEW SECOND
FLOOR CEILING
PLAN - BLDG E**

DRAWING NUMBER: **AE3.3**

REFERENCE NOTES

KEYNOTE	DESCRIPTION
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(E) 2HR RATED WALL - GYP. BRD. / STUD. / GYP. BRD.	
CEILING TYPE 1: REPLACE ALL CEILING TILES BACK TO THEIR ORIGINAL LOCATION. REPLACE ALL BROKEN TILES, WATER STAINED, CHIPPED, DENTED, AND SCRATCHED WITH NEW TILES OF SIMILAR PATTERN, TEXTURE, AND COLOR. LIGHT FIXTURE TYP.	
CEILING TYPE 4: SPLICE IN NEW METAL RUNNERS AS NEEDED TO REINSTALL NEW GYPSUM BOARD TO MATCH EXISTING. TAPE, MUD, TEXTURE, PRIME, AND PAINT TO MATCH EXISTING. REPAINT ENTIRE CEILING TYPICAL. GYPSUM BOARD TYP.	

LEGEND



NEW CEILING PLAN - BLDG E - 2F

1/8" = 1'-0"

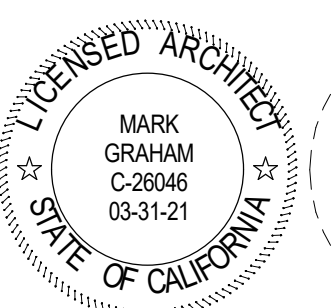
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SITE KEY PLAN



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**DEMO ROOF
PLAN - BLDG E**

DRAWING NUMBER: **AE4.0**

REFERENCE NOTES

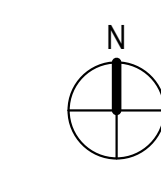
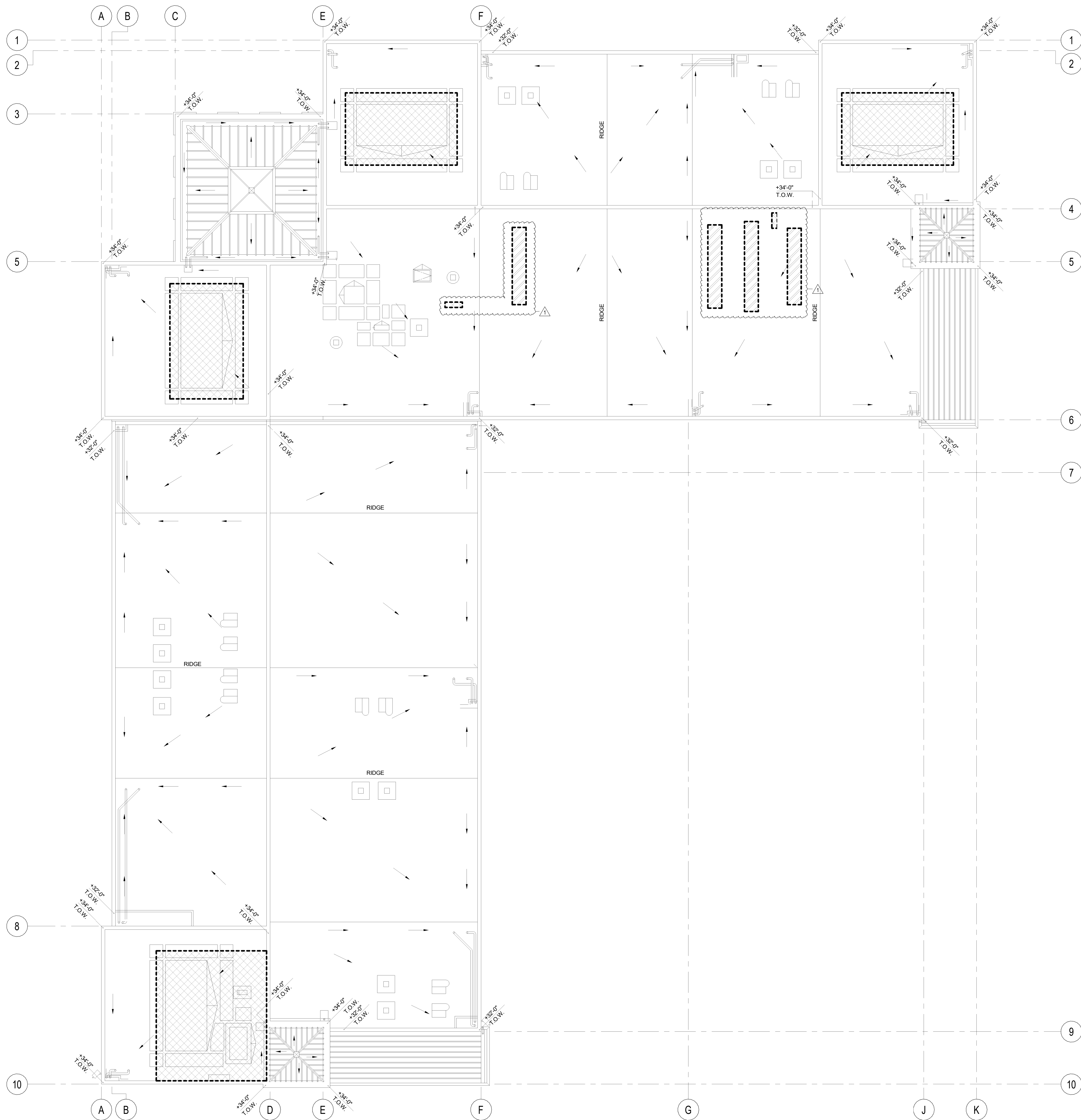
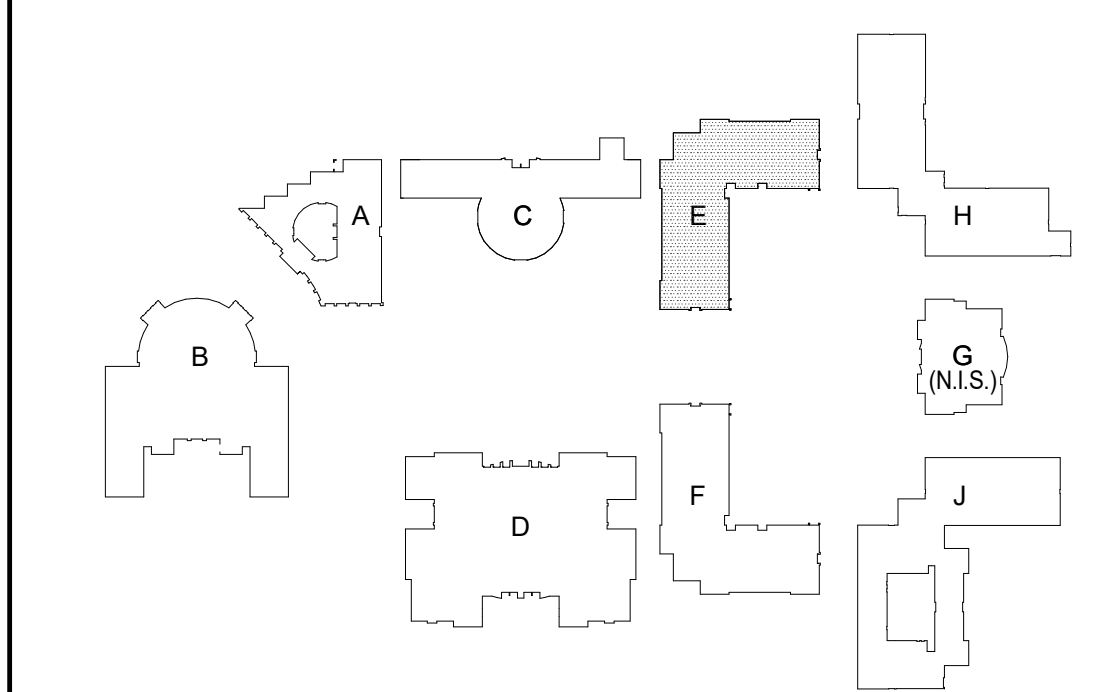
KEYNOTE	DESCRIPTION

DEMO TYPE 1: REMOVE ROOFING MATERIAL, SUBSTRATE, STRUCTURAL MEMBERS AS SHOWN ON STRUCTURAL DRAWINGS, ROOF CURBS, WALKING MATS, AND FLASHINGS AS NEEDED TO ALLOW ACCESS TO PERFORM ALL REQUIRED WORK ON THE NEW UNITS. DEMOLITION SIZES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR CAN DETERMINE IN FIELD WHAT IS REQUIRED TO COMPLETE EACH TASK. ANYTHING WITHIN THE HATCH IS TO BE DEMOLISHED WHETHER IDENTIFIED OR NOT, EXCEPT THE STRUCTURAL SYSTEM. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS.

DEMO EXISTING EQUIPMENT TYP. WHERE OCCURS ON ROOF PLAN

DEMO TYPE 2: REMOVE ROOFING MATERIAL, INSULATION AND SUBSTRATE, DOWN TO METAL DECK. PREP FOR INSTALLATION OF NEW UNITS. SEE 11MP4.3

LEGEND



DEMO ROOF PLAN - BLDG E

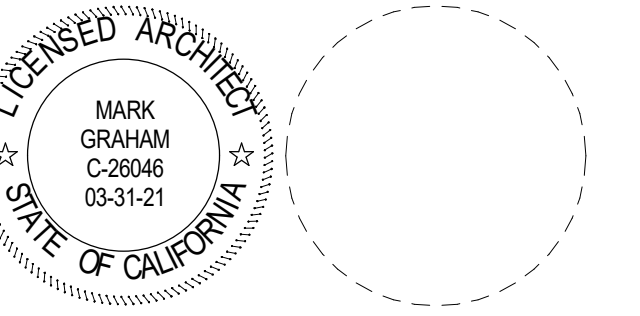
1/8" = 1'-0"

1

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REVISIONS			

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DATE: 08/25/20 SCALE: As indicated
PROJECT NUMBER: 1917100

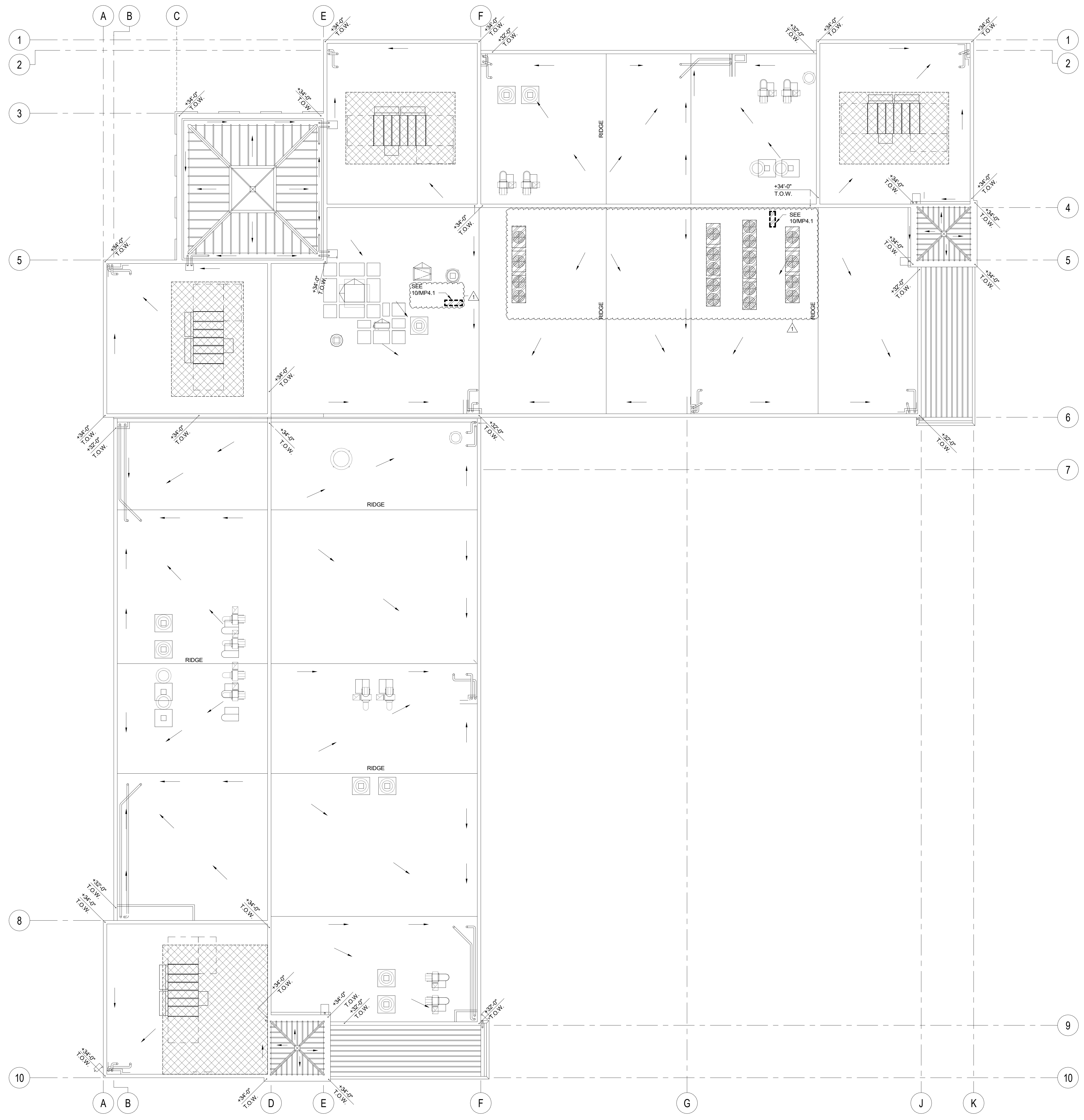
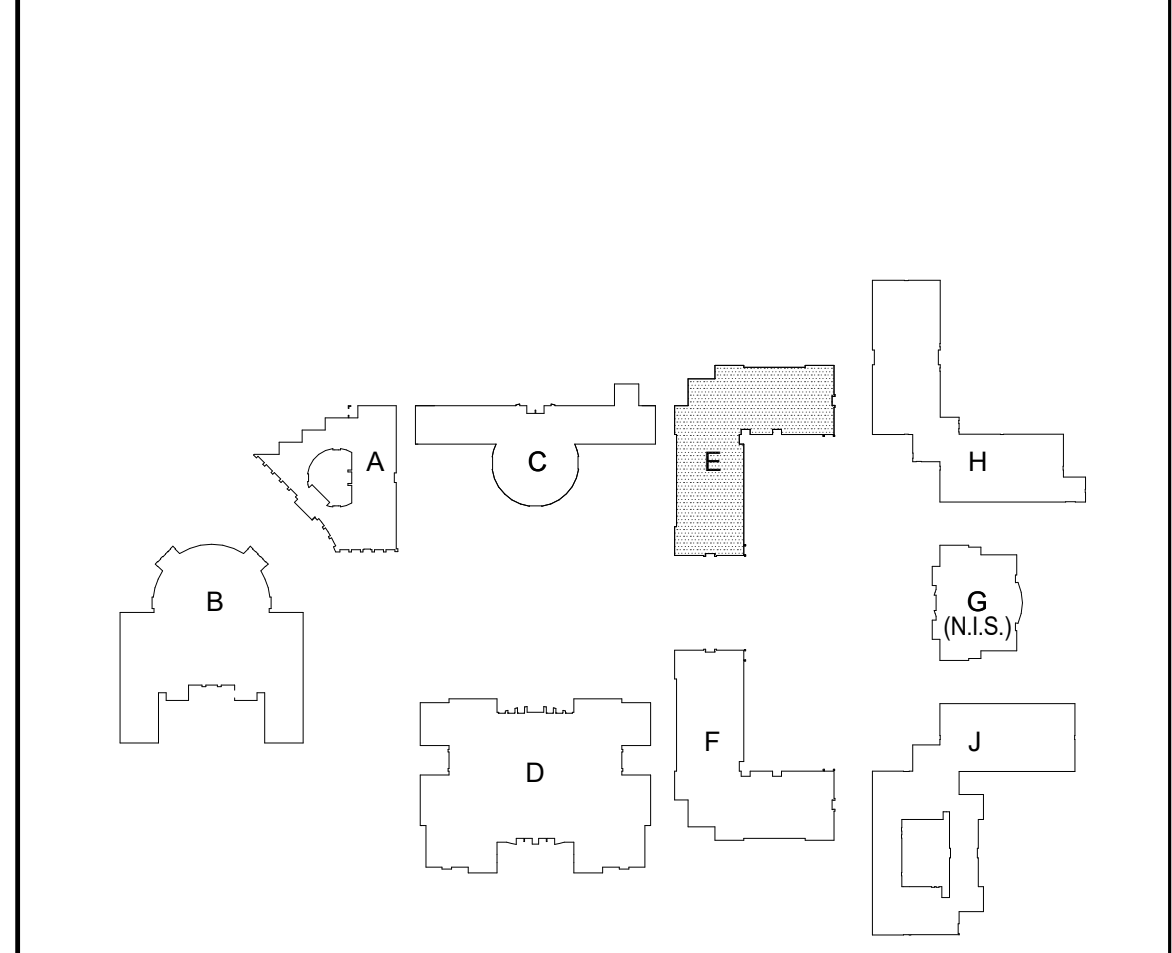
**NEW ROOF PLAN
- BLDG E**

DRAWING NUMBER: **AE4.1**

REFERENCE NOTES

KEYNOTE	DESCRIPTION
1	PATCH BACK ROOFING MATERIAL PER 37.1. INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 1360.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF.
2	NEW AC UNIT. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION ON EACH UNIT TYPICAL.
3	PATCH BACK ROOFING MATERIAL PER 37.1. SEE 11/MP4.3 FOR ADDITIONAL INFORMATION ON THE INSTALLATION OF THESE UNITS.

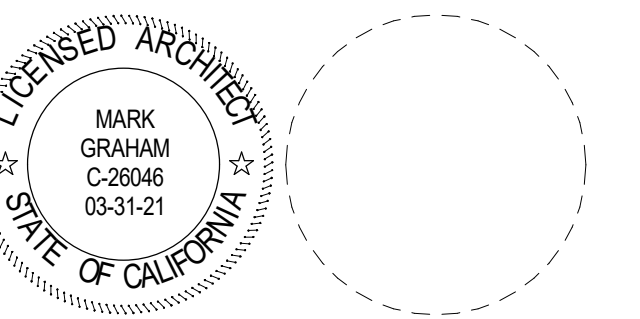
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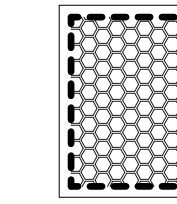
DRAWN: JY CHECKED: SJ
 DATE: 08/25/20 SCALE: As indicated
 PROJECT NUMBER: 1917100

**DEMO CEILING
 PLAN - BLDG F**

DRAWING NUMBER: **AF3.0**

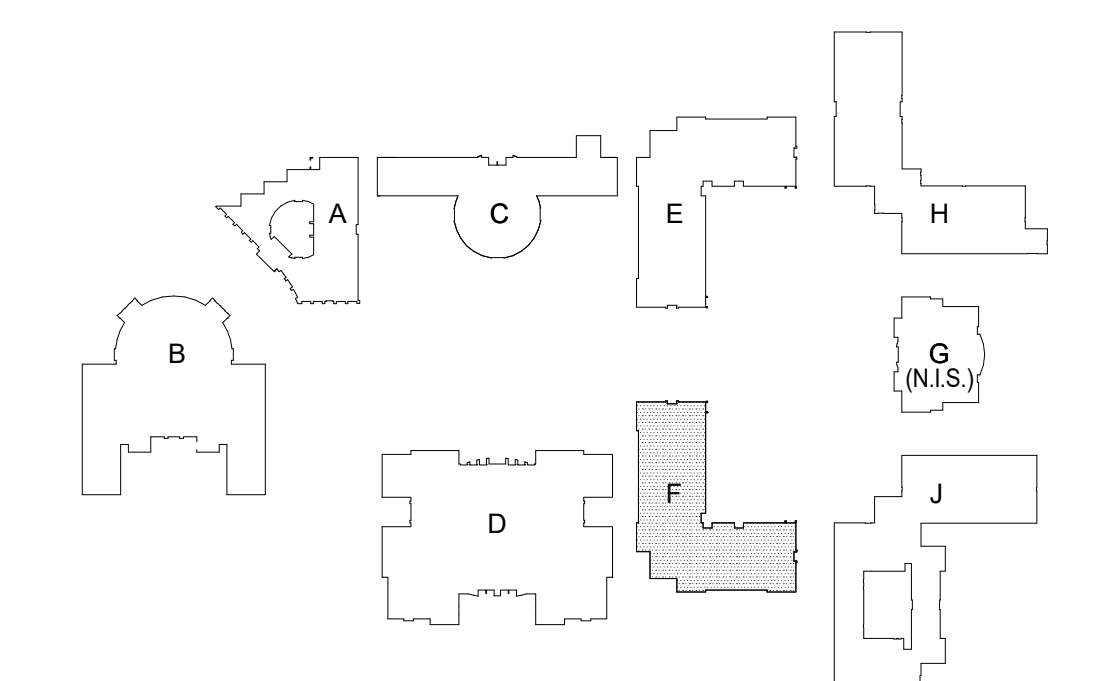
REFERENCE NOTES

KEYNOTE	DESCRIPTION
(E)	1HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
(E)	2HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
(E)	DEMO TYPE 1: REMOVE AND PROTECT ACCOUSTICAL CEILING TILES. REINSTALL UPON COMPLETION OF HVAC WORK. DO NOT TOUCH CEILING GRID. DO NOT REMOVE LIGHT FIXTURES TYPICAL.
(E)	DEMO TYPE 4: REMOVE EXISTING GYPSUM BOARD FROM SUSPENDED IRON CEILING. SEE DETAIL 10.119.2 FOR EXISTING CONDITION. NEATLY CUT GYPSUM ON HAT CHANNEL TYPICAL.



GYPSUM BOARD TYP.

LEGEND



DEMO CEILING PLAN - BLDG F

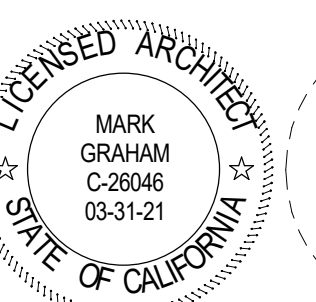
1/8" = 1'-0" 1

SITE KEY PLAN



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DATE: 08/25/20 | SCALE: As indicated

PROJECT NUMBER: 1917100

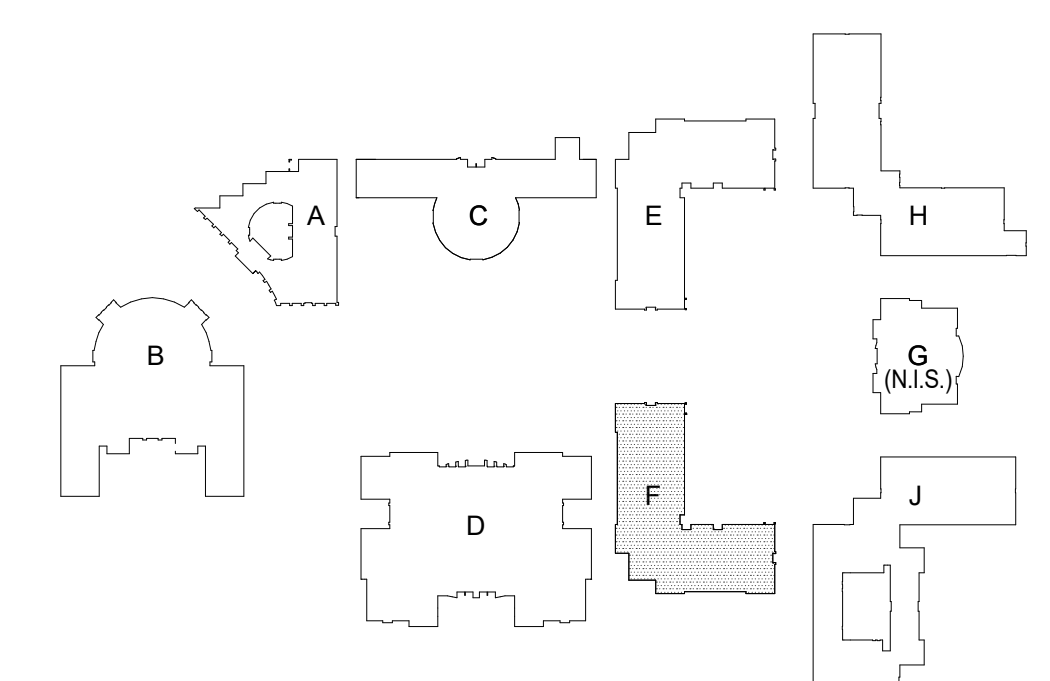
**DEMO CEILING
PLAN - BLDG F -
2F**

DRAWING NUMBER: **AF3.1**

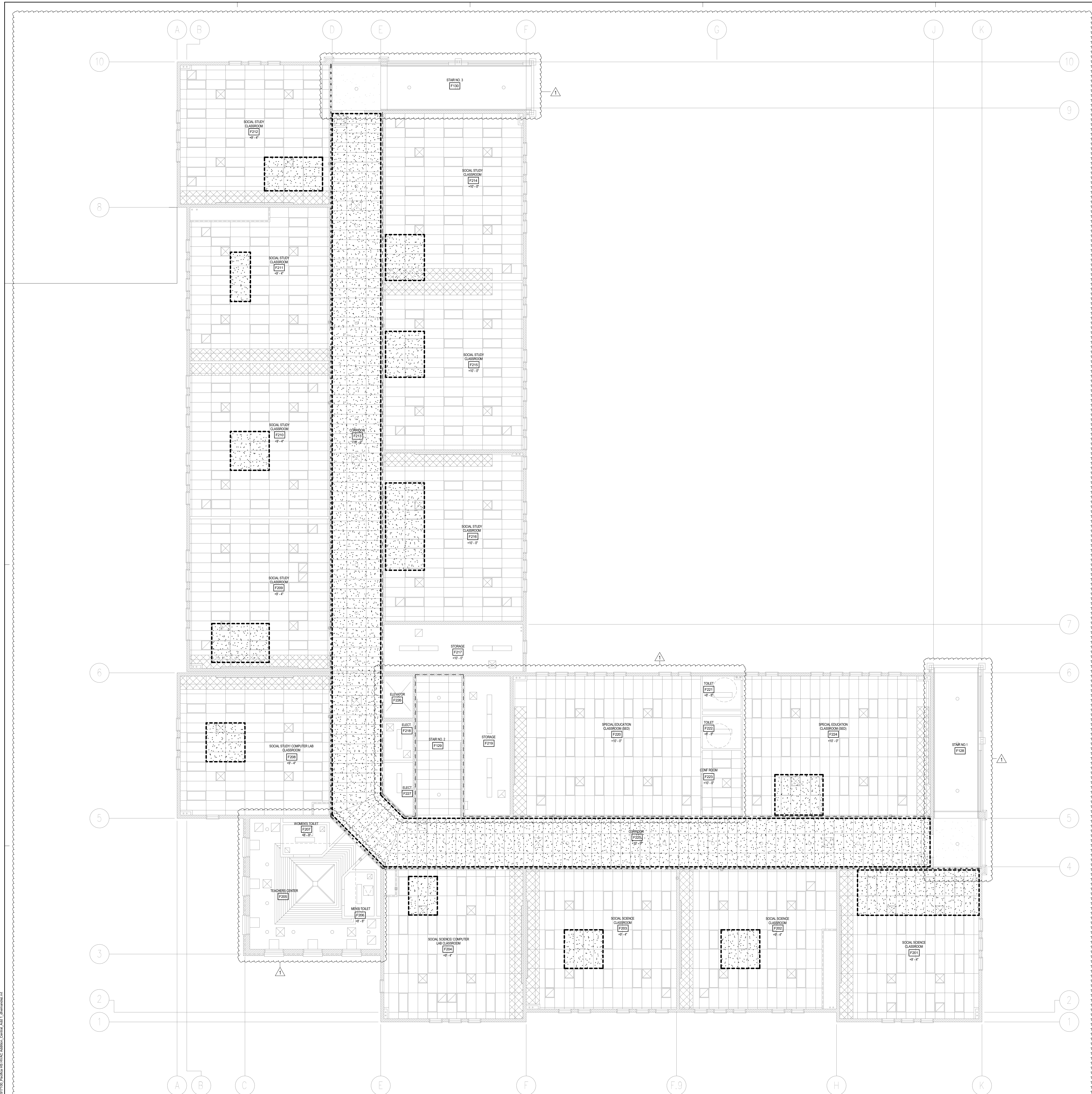
REFERENCE NOTES

KEYNOTE	DESCRIPTION
(E)	1HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
(E)	2HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
(E)	DEMO TYPE 1: REMOVE AND PROTECT ACCOUSTICAL CEILING TILES. REINSTALL UPON COMPLETION OF HVAC WORK. DO NOT TOUCH CEILING GRID. DO NOT REMOVE LIGHT FIXTURES TYPICAL.
(E)	DEMO TYPE 4: REMOVE EXISTING GYPSUM BOARD FROM SUSPENDED IRON CEILING. SEE DETAIL 10.119.2 FOR EXISTING CONDITION. NEATLY CUT GYPSUM ON HAT CHANNEL TYPICAL.

LEGEND



SITE KEY PLAN

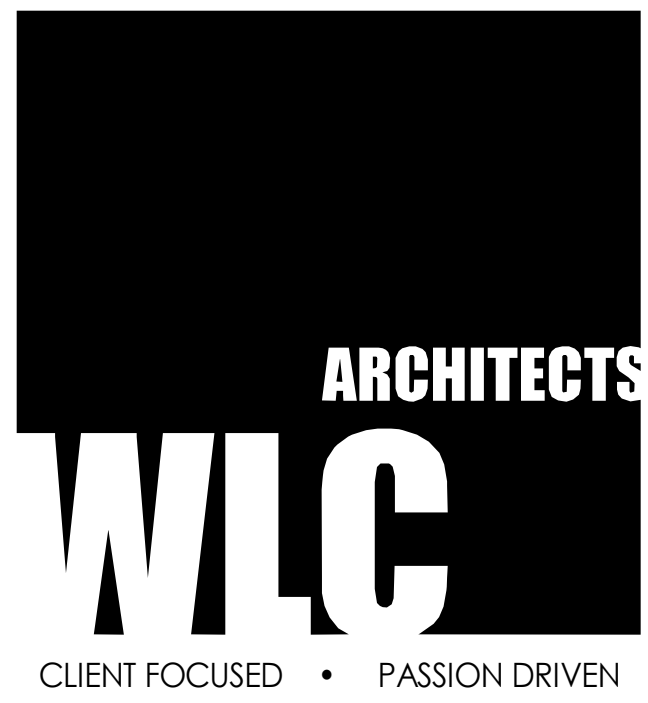


DEMO CEILING PLAN - BLDG F - 2F

1/8" = 1'-0"

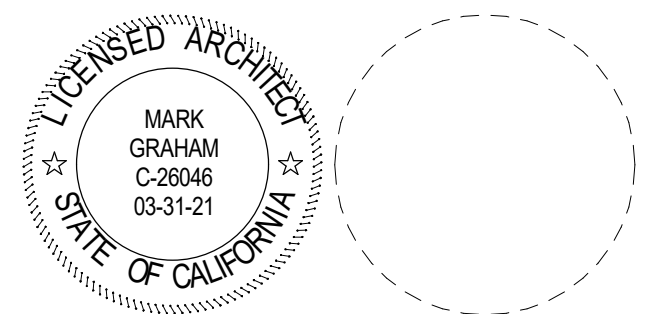
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CONSULTANT

NO	DATE	BY	DESCRIPTION
1	08/25/20		ADDENDUM 1
REVISIONS			

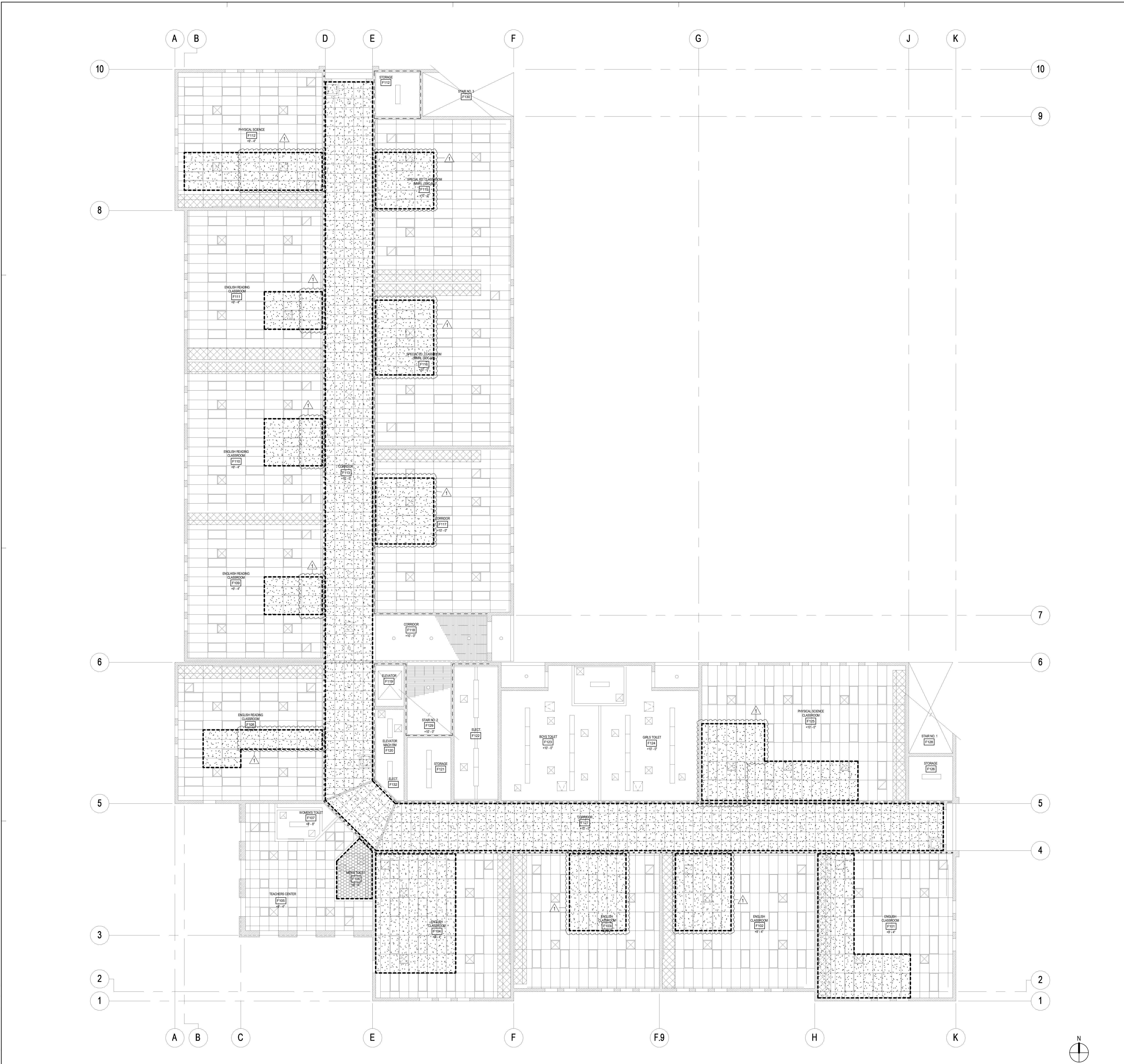
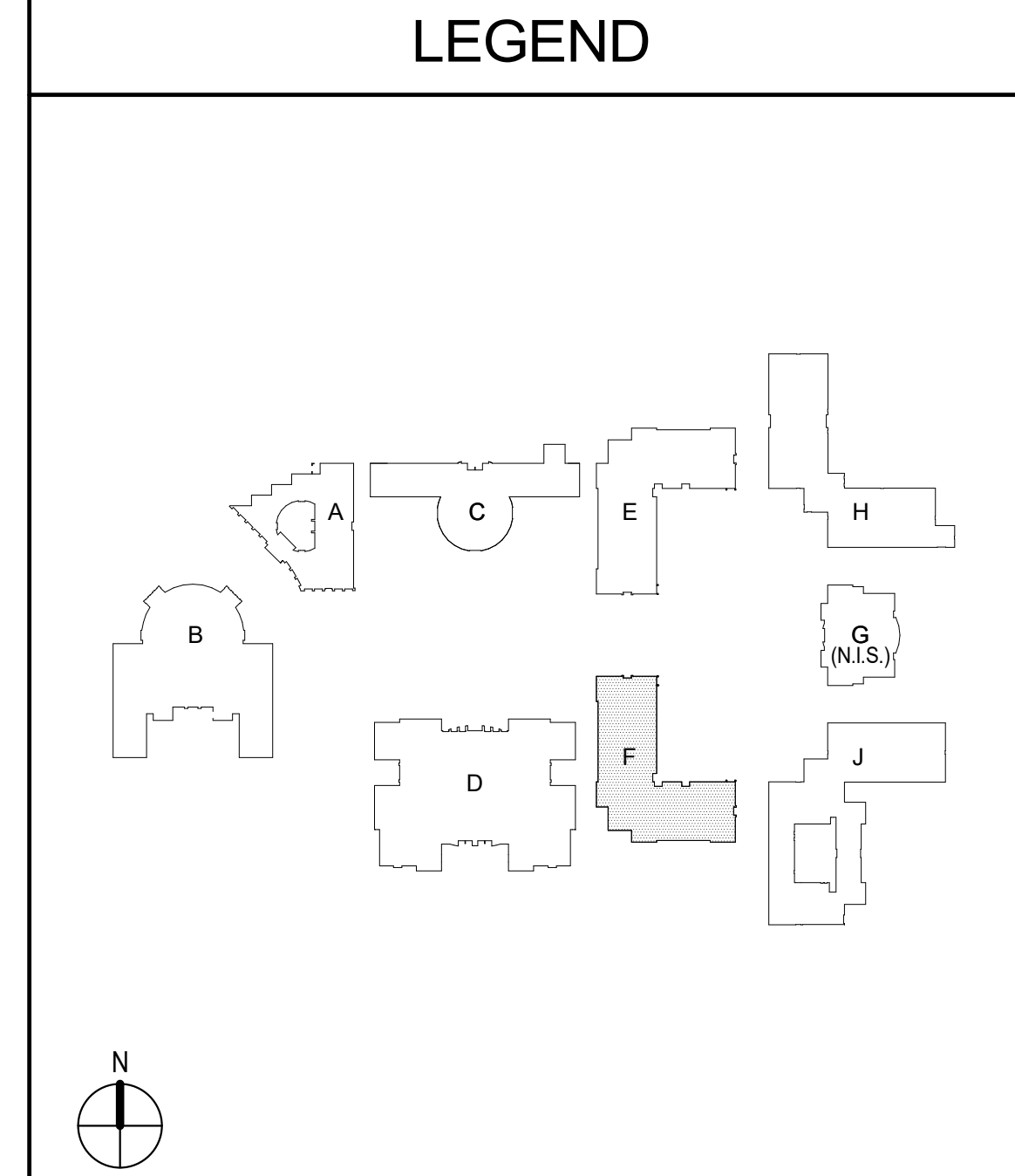
DRAWN: JY CHECKED: SJ
 DATE: 08/25/20 SCALE: As indicated
 PROJECT NUMBER: 1917100

**NEW CEILING
PLAN - BLDG F**

DRAWING
NUMBER: **AF3.2**

REFERENCE NOTES	
KEYNOTE	DESCRIPTION

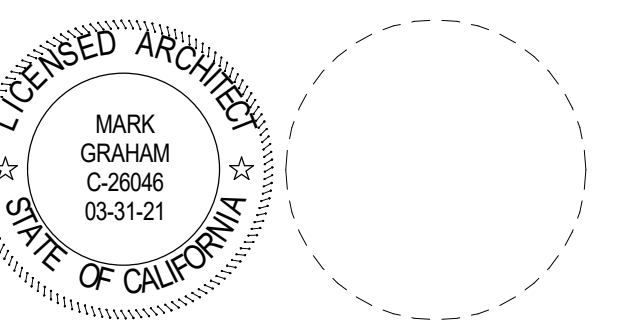
- (E) 1HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
- (E) 2HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
- CEILING TYPE 1: REPLACE ALL CEILING TILES BACK TO THEIR ORIGINAL LOCATION. REPLACE ALL BROKEN TILES, WATER STAINED, CHIPPED, DENTED, AND SCRATCHED WITH NEW TILES OF SIMILAR PATTERN, TEXTURE, AND COLOR.
LIGHT FIXTURE TYP.
- CEILING TYPE 4: SPLICE IN NEW METAL RUNNERS AS NEED TO REINSTALL NEW GYPSUM BOARD TO MATCH EXISTING. TAPE, M.U.D. TEXTURE, PRIME, AND PAINT TO MATCH EXISTING. REPAINT ENTIRE CEILING TYPICAL.
GYPSUM BOARD TYP.



NEW CEILING PLAN - BLDG F 1/8" = 1'-0" 1

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NO	DATE	BY	DESCRIPTION

DRAWN: JY	CHECKED: SJ
DATE: 08/25/20	SCALE: As indicated
PROJECT NUMBER: 1917100	

**NEW CEILING
PLAN - BLDG F -
2F**

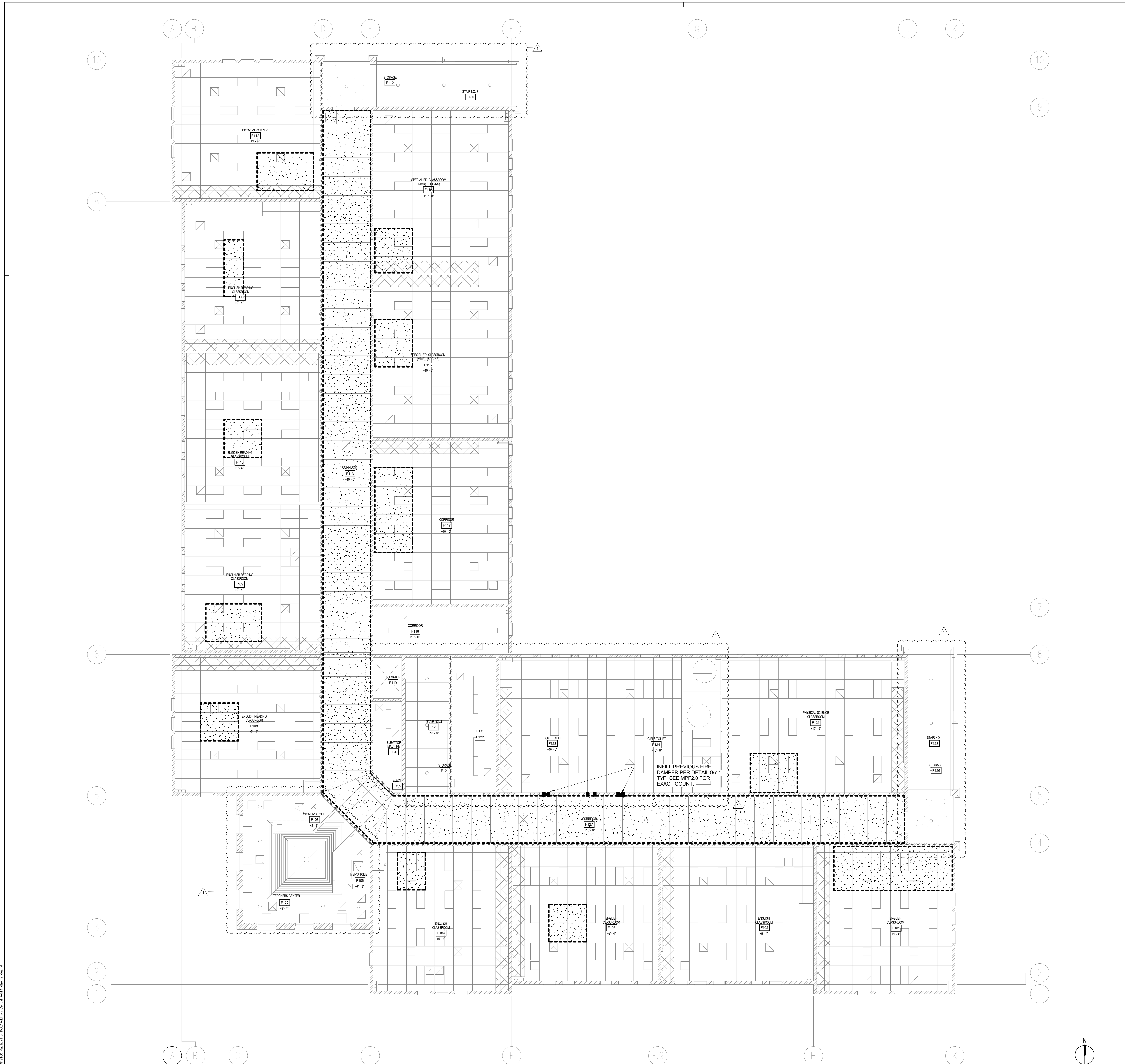
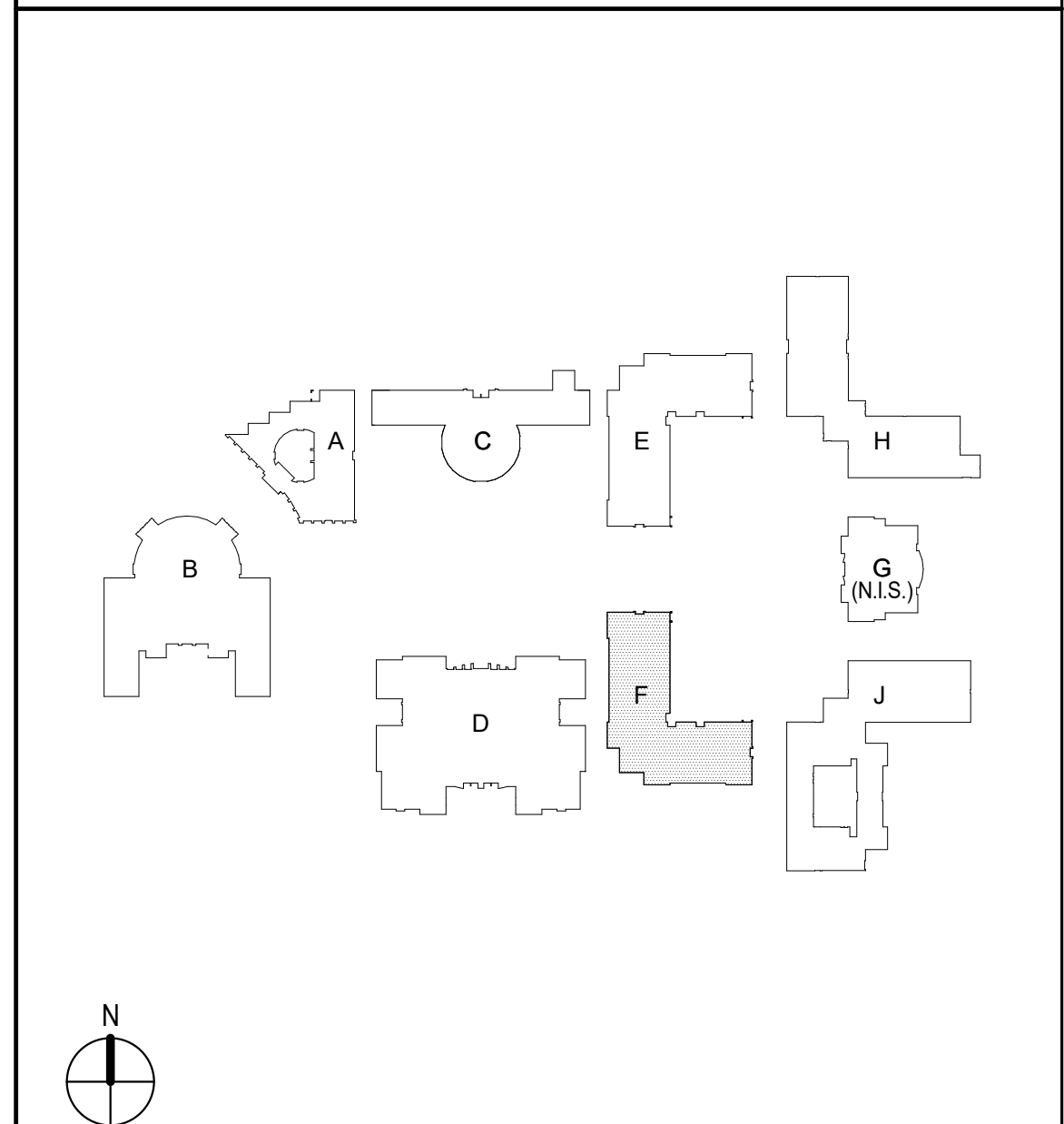
DRAWING NUMBER: **AF3.3**

REFERENCE NOTES

KEYNOTE	DESCRIPTION

- (E) 1HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
- (E) 2HR RATED WALL - GYP. BRD. / STUD / GYP. BRD.
- CEILING TYPE 1:** REPLACE ALL CEILING TILES BACK TO THEIR ORIGINAL LOCATION. REPLACE ALL BROKEN TILES, WATER STAINED, CHIPPED, DENTED, AND SCRATCHED WITH NEW TILES OF SIMILAR PATTERN, TEXTURE, AND COLOR.
- LIGHT FIXTURE TYP.
- CEILING TYPE 4:** SPLICE IN NEW METAL RUNNERS AS NEED TO REINSTALL NEW GYPSUM BOARD TO MATCH EXISTING TAPE, J.M.D. TEXTURE, PRIME, AND PAINT TO MATCH EXISTING. REPAINT ENTIRE CEILING TYPICAL.
- GYPSUM BOARD TYP.

LEGEND



NEW CEILING PLAN - BLDG F - 2F 1/8" = 1'-0" 1

SITE KEY PLAN

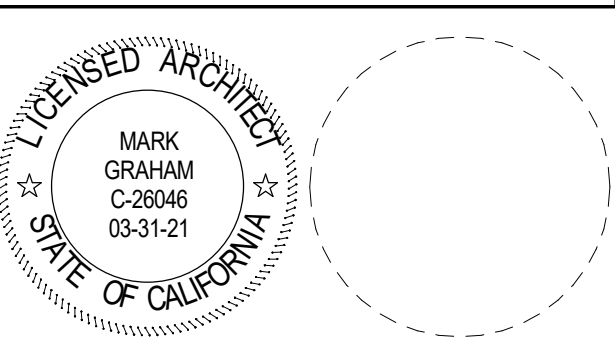
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1	08/25/20	ADDENDUM 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: JY CHECKED: SJ
DATE: 08/25/20 SCALE: As indicated
PROJECT NUMBER: 1917100

DEMO ROOF PLAN - BLDG F

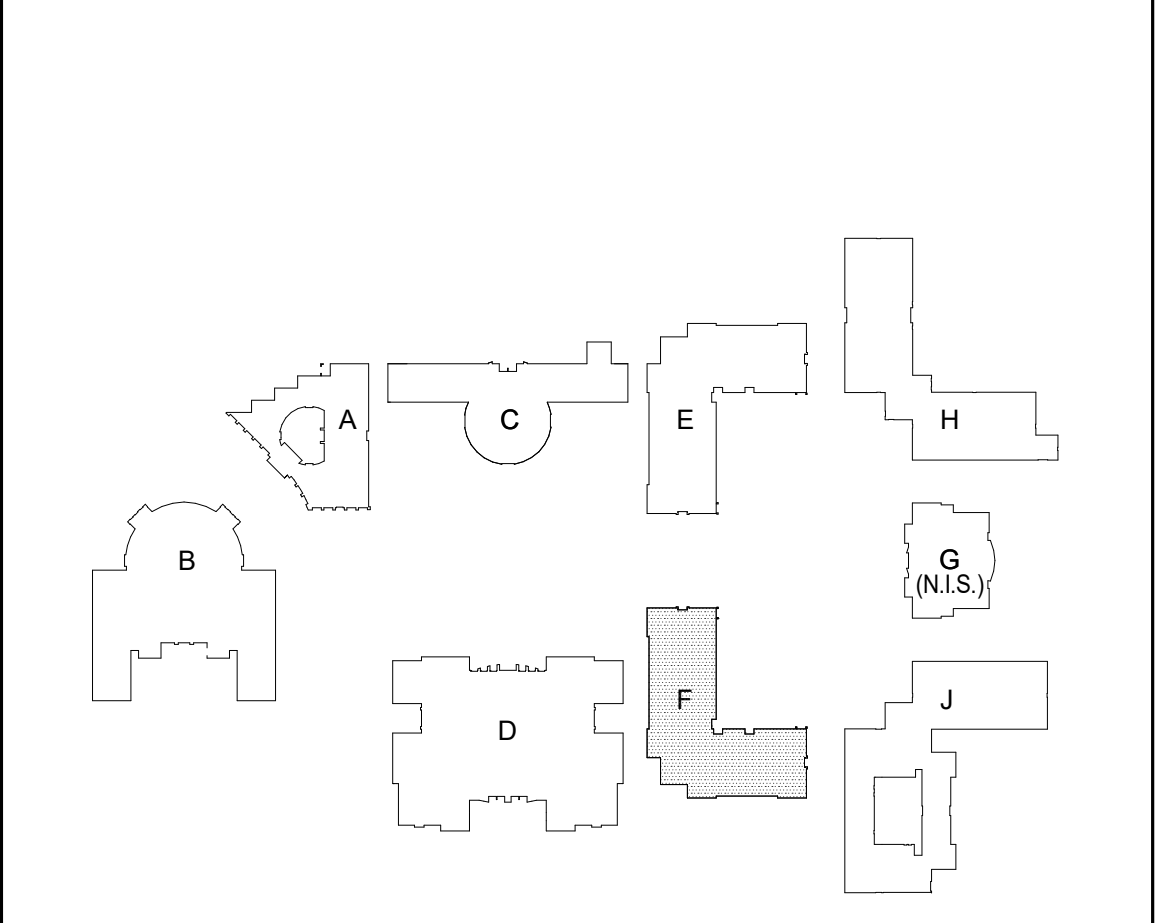
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REFERENCE NOTES

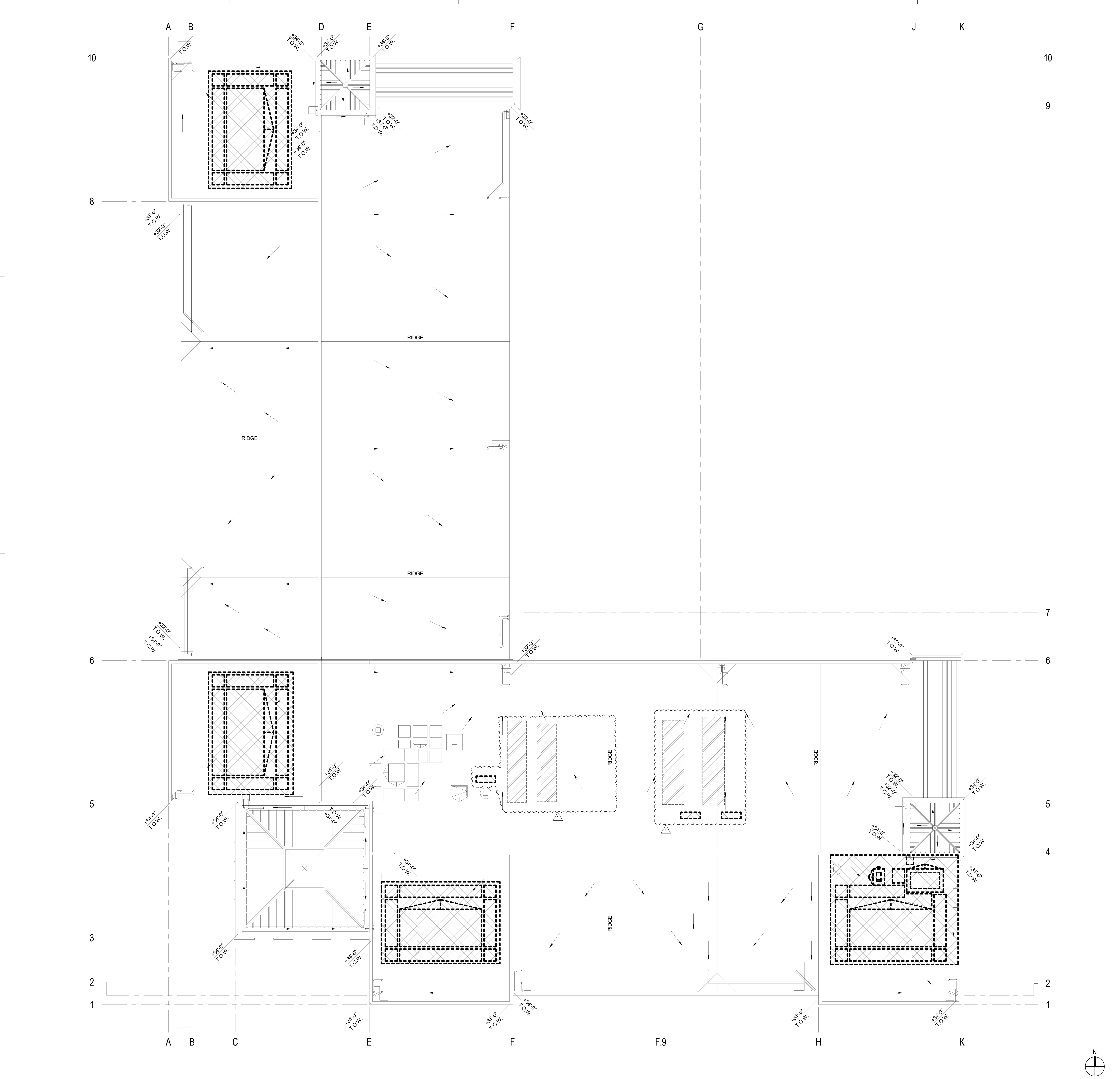
KEYNOTE	DESCRIPTION

- DEMO TYPE 1:** REMOVE ROOFING MATERIAL, SUBSTRATE, STRUCTURAL MEMBERS AS SHOWN ON STRUCTURAL DRAWINGS, ROOF CURBS, WALKING MATS, AND FLASHINGS AS NEEDED TO ALLOW ACCESS TO PERFORM ALL REQUIRED WORK ON THE NEW UNITS. DEMOLITION SIZES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR CAN DETERMINE IN FIELD WHAT IS REQUIRED TO COMPLETE EACH TASK. ANYTHING WITHIN THE HATCHES IS TO BE DEMOLISHED WHETHER IDENTIFIED OR NOT, EXCEPT THE STRUCTURAL SYSTEM. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS.
- DEMO EXISTING EQUIPMENT TYP.** WHERE OCCURS ON ROOF PLAN
- DEMO TYPE 2:** REMOVE ROOFING MATERIAL, INSULATION AND SUBSTRATE DOWN TO METAL DECK. PREP FOR INSTALLATION OF NEW UNITS. SEE 11MP4.3

LEGEND



LEGEND



DEMO ROOF PLAN - BLDG F

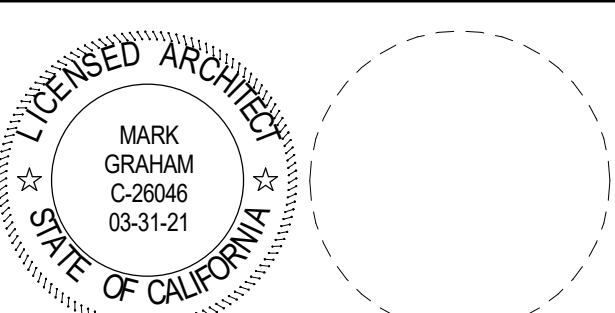
1/8" = 1'-0" 1

SITE KEY PLAN



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1	08/25/20	ADDENDUM 1
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: JY	CHECKED: SJ
DATE: 08/25/20	SCALE: As indicated
PROJECT NUMBER: 1917100	

**NEW ROOF PLAN
- BLDG F**

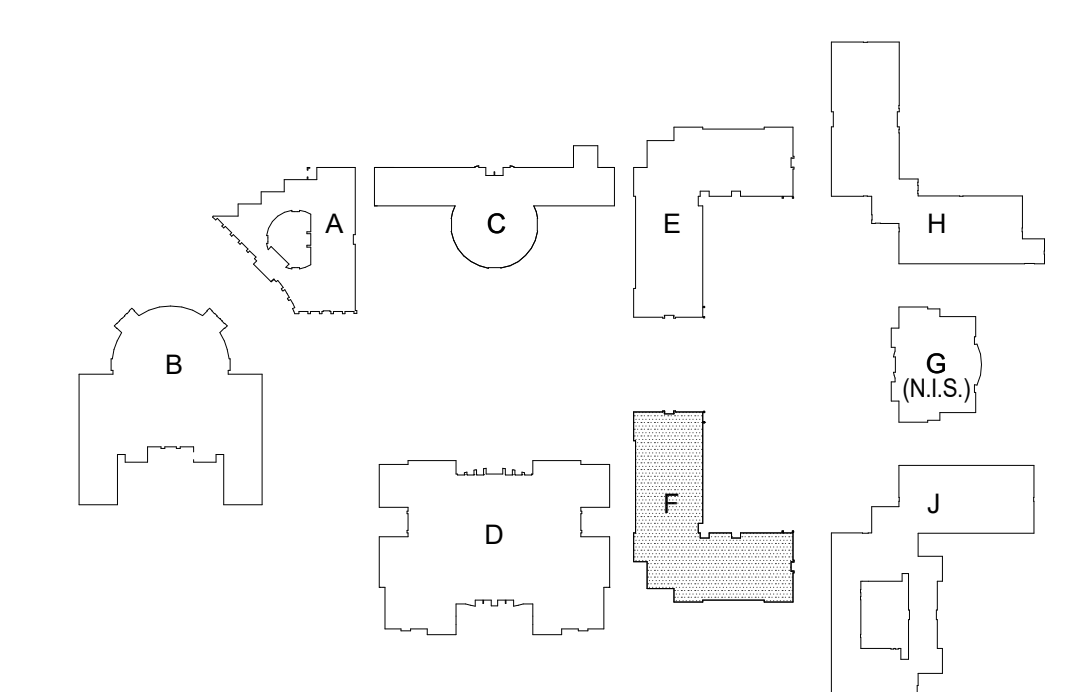
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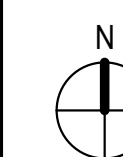
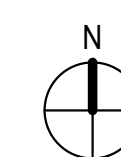
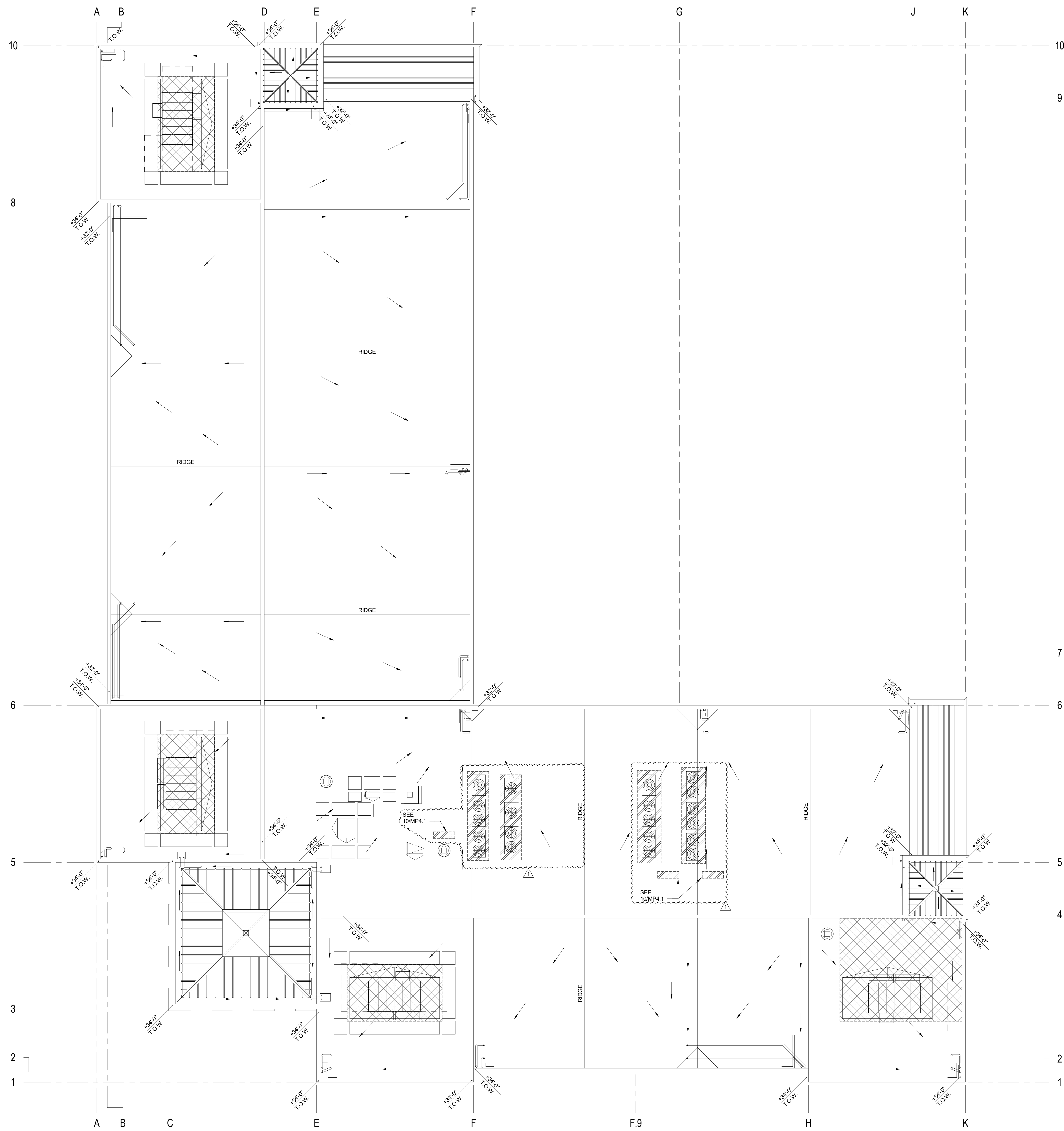
KEYNOTE	DESCRIPTION
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- [Cross-hatch pattern] PATCH BACK ROOFING MATERIAL PER 317.1. INFILL METAL DECKING AND STRUCTURAL SUPPORTS PER 1380.3. PROVIDE RIGID INSULATION TO ALIGN WITH EXISTING FINISHED ROOF.
- [Solid grey fill] NEW AC UNIT. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION ON EACH UNIT TYPICAL.
- [Diagonal hatch pattern] PATCH BACK ROOFING MATERIAL PER 317.1. SEE 11MP4.3 FOR ADDITIONAL INFORMATION ON THE INSTALLATION OF THESE UNITS.

LEGEND



SITE KEY PLAN



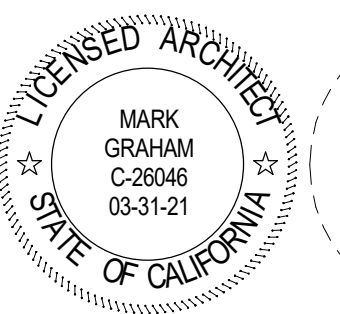
NEW ROOF PLAN - BLDG F 1/8" = 1'-0" 1

191710001-01 (11/18) AF
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1	08/25/20	ADDENDUM 1
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NO	DATE	BY	DESCRIPTION
REVISIONS			

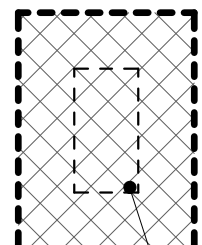
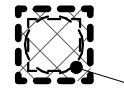
DRAWN: JY CHECKED: SJ
 DATE: 08/25/20 SCALE: As indicated
 PROJECT NUMBER: 1917100

**DEMO ROOF
 PLAN - BLDG J -
 AREA A**

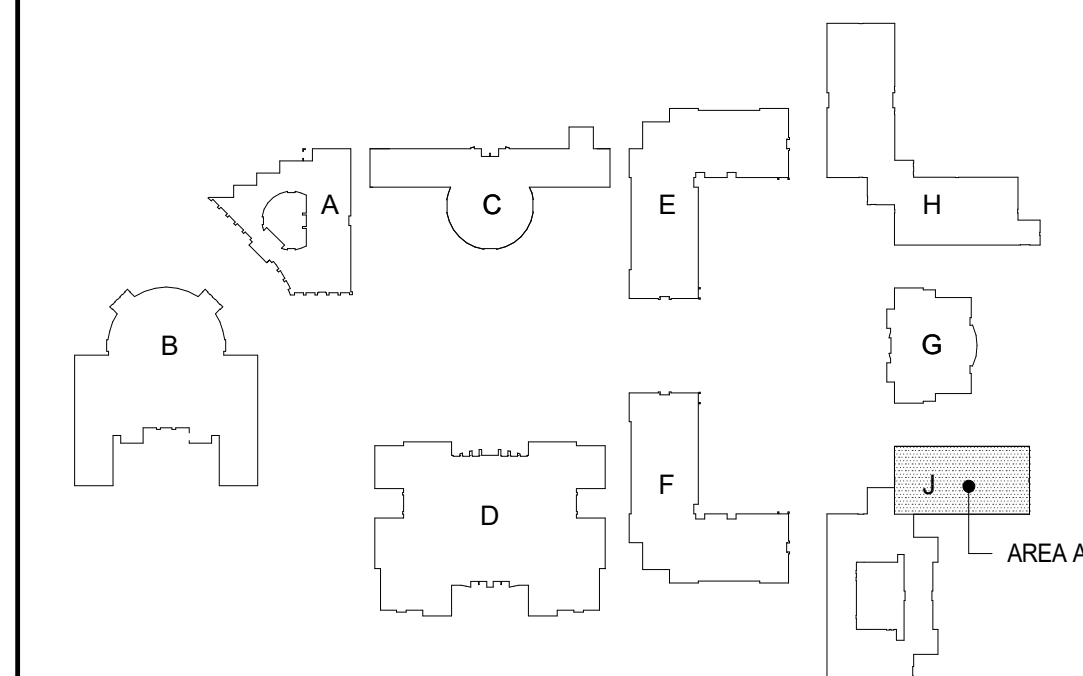
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REFERENCE NOTES

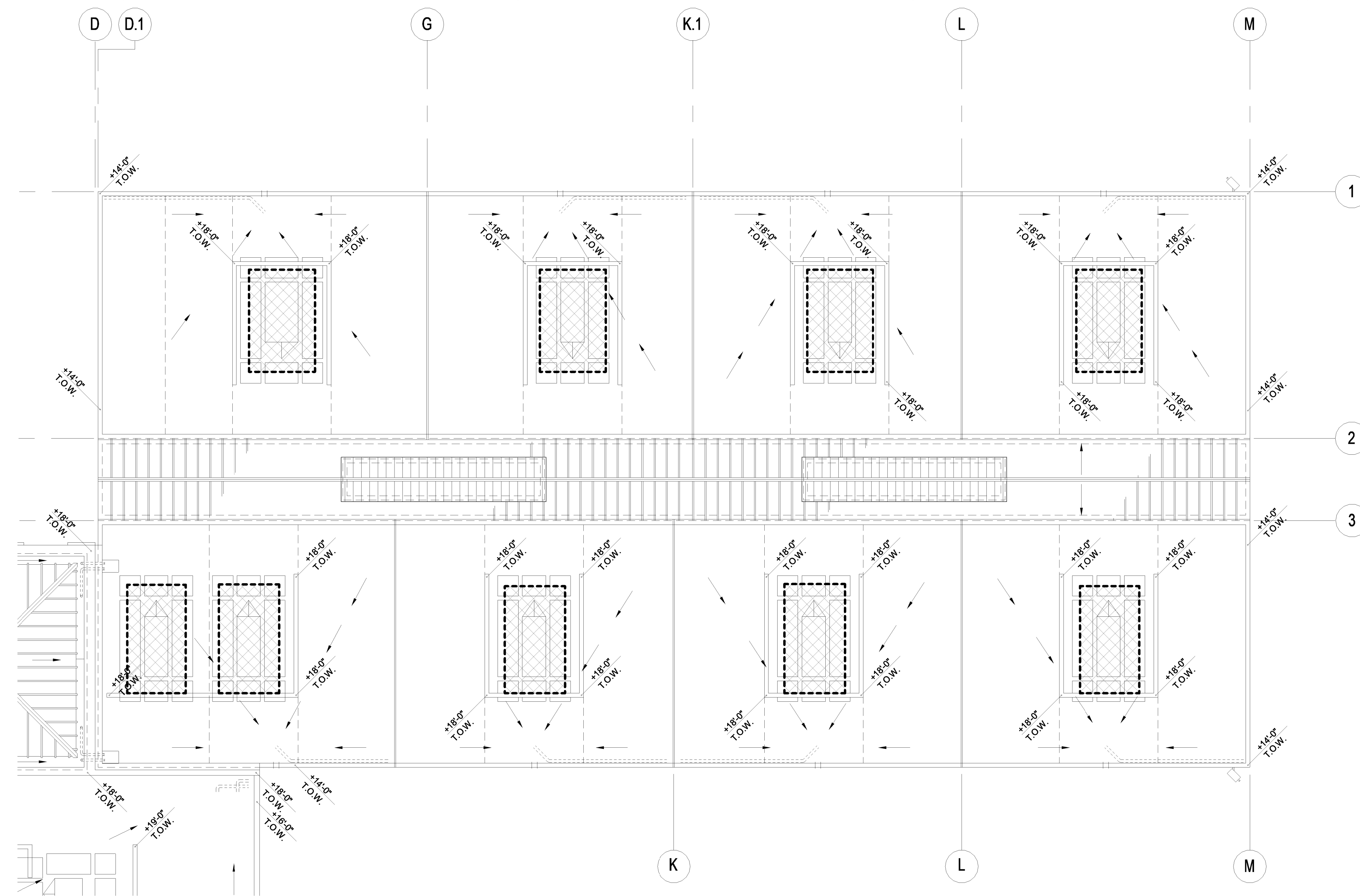
KEYNOTE DESCRIPTION

 **DEMO TYPE 1:** REMOVE ROOFING MATERIAL, SUBSTRATE, STRUCTURAL MEMBERS AS SHOWN ON STRUCTURAL DRAWINGS; ROOF CURBS, WALKING MATS, AND FLASHINGS AS NEEDED TO ALLOW ACCESS TO PERFORM ALL REQUIRED WORK ON THE NEW UNITS. DEMOLITION SIZES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR CAN DETERMINE IN FIELD WHAT IS REQUIRED TO COMPLETE EACH TASK. ANYTHING WITHIN THE HATCH IS TO BE DEMOLISHED WHETHER IDENTIFIED OR NOT EXCEPT THE STRUCTURAL SYSTEM. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS.
 DEMO EXISTING EQUIPMENT TYP. WHERE OCCURS ON ROOF PLAN

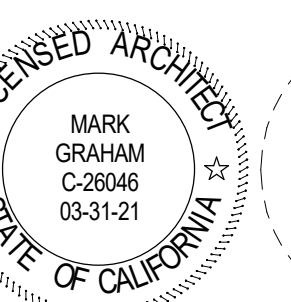
LEGEND



SITE KEY PLAN



DEMO ROOF PLAN - BLDG J - AREA A 1/8" = 1'-0" 1



CONSULTANT

1	08/25/20	ADDENDUM 1
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: JY	CHECKED: SJ
DATE: 08/25/20	SCALE: As indicated
PROJECT NUMBER: 1917100	

**DEMO ROOF
PLAN - BLDG J -
AREA B**

DRAWING
NUMBER: **AJ4.1**

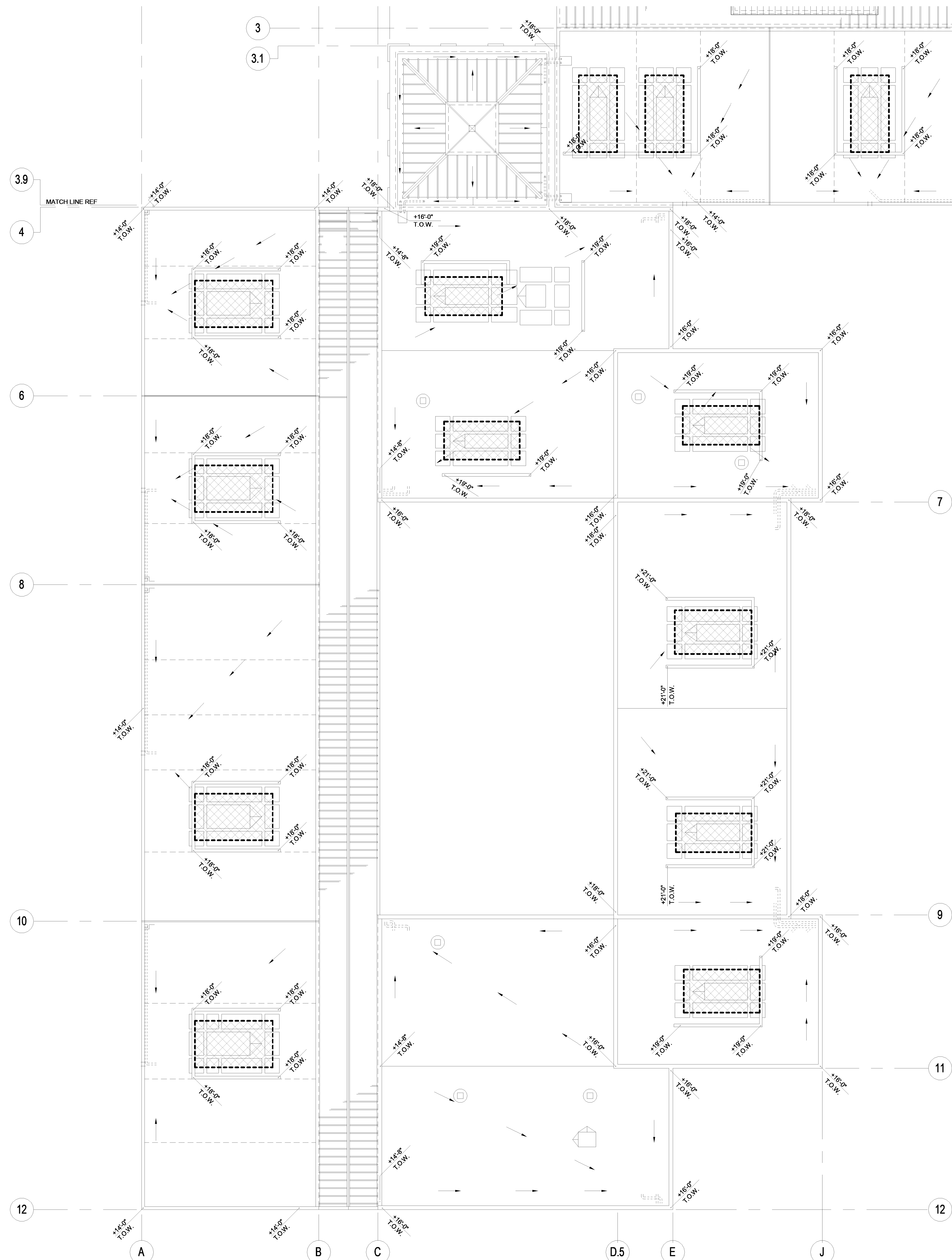
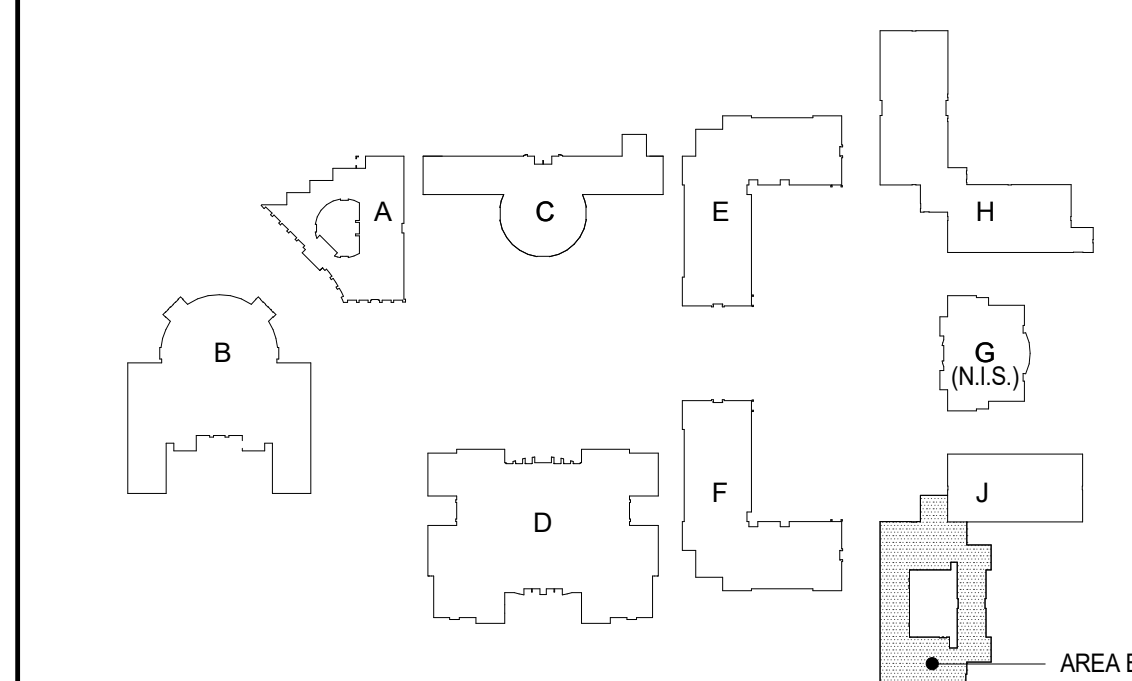
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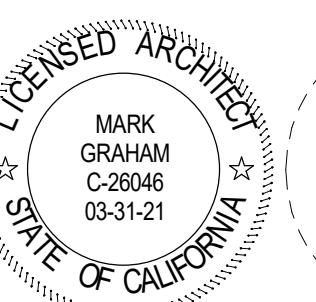
KEYNOTE	DESCRIPTION
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DEMO TYPE 1: REMOVE ROOFING MATERIAL, SUBSTRATE, STRUCTURAL MEMBERS AS SHOWN ON STRUCTURAL DRAWINGS, ROOF CURBS, WALKING MATS, AND FLASHINGS AS NEEDED TO ALLOW ACCESS TO PERFORM ALL REQUIRED WORK ON THE NEW UNITS. DEMOLITION SIZES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR CAN DETERMINE IN FIELD WHAT IS REQUIRED TO COMPLETE EACH TASK. ANYTHING WITHIN THE HATCHES IS TO BE DEMOLISHED WHETHER IDENTIFIED OR NOT, EXCEPT THE STRUCTURAL SYSTEM. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS.

DEMO EXISTING EQUIPMENT TYP. WHERE OCCURS ON ROOF PLAN

LEGEND





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1	08/25/20	ADDENDUM 1
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: JY CHECKED: SJ

DATE: 08/25/20 SCALE: As indicated

PROJECT NUMBER: 1917100

**THERMAL AND
MOISTURE
PROTECTION**

DRAWING NUMBER: **7.1**

WHEN INSTALLING CONDENSATE LINES TO THESE SINKS AND SIMILAR OTHERS, CONTRACTOR SHALL REMOVE WALL TILES, GROUT, SUBSTRATE, DAMP PROOFING MATERIAL, AND ALL ASSOCIATED ITEMS FOR A COMPLETE INSTALLATION. CONTRACTOR CAN OPEN THE BACK SIDE OF WALL IF ACCESSIBLE, AND REMOVE ALL MATERIALS THAT ARE PREVENTING INSTALLATION. LEAVE STRUCTURAL SYSTEMS IN PLACE TYPICAL.



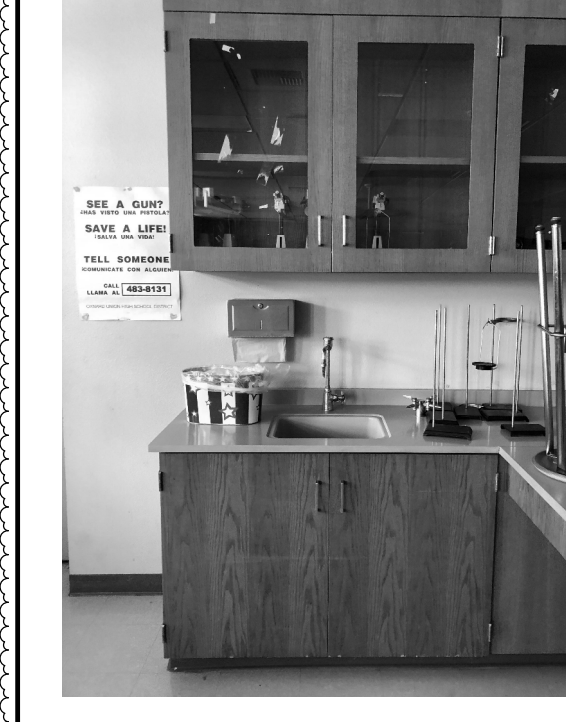
CONTRACTOR SHALL PATCH BACK ALL MATERIALS TO MATCH EXISTING SIZE, SHAPE, THICKNESS FOR A NEAT, CLEAN INSTALLATION. THIS WILL INCLUDE TILE, GROUT, WATER PROOFING, INSULATION, TILE BACKER OR GYPSUM BOARD, TEXTURE, PRIME AND PAINT WALLS TO MATCH EXISTING WALLS. PAINT ENTIRE WALL TYPICAL. TEST ALL LINES WITH INSPECTOR PRIOR TO CLOSING UP WALL. ALL SINKS ARE ADA ACCESSIBLE, AND SHALL REMAIN THAT WAY UPON COMPLETION OF WORK.

PROVIDE FIRE CAULKING AT ALL RATED WALLS AS IDENTIFIED ON THE PLANS - WHERE OCCURS.

ADDITIONAL SINKS BELOW SHOW DIFFERENT CONDITIONS YOU WILL FIND. ALL ABOVE NOTES APPLY TO ALL CONDITIONS WHERE OCCURS.



THIS IS A TYPICAL MOP SINK CONDITION. OKAY TO SURFACE MOUNT CONDENSATE LINES TO THESE SINKS.



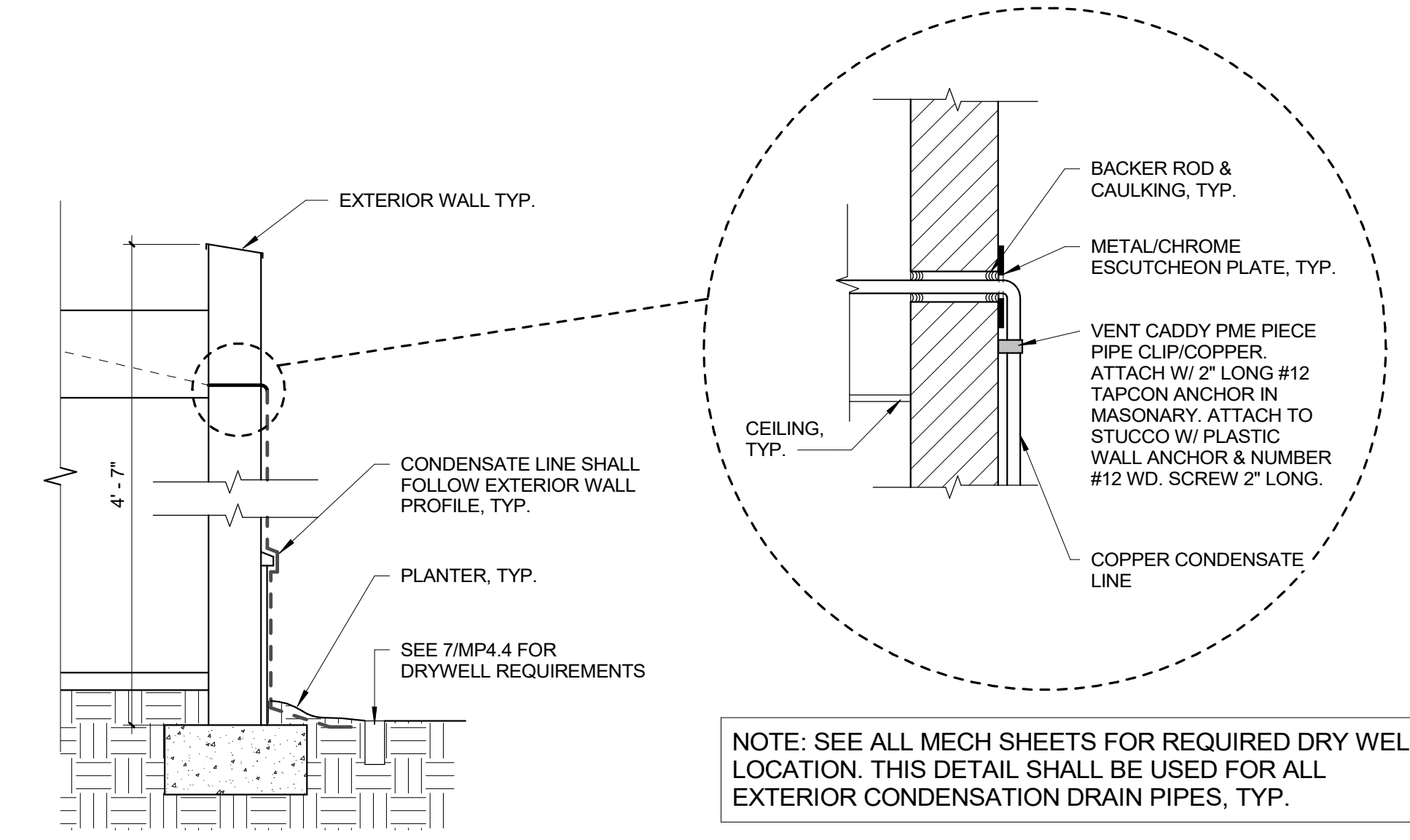
THIS IS A TYPICAL LABORATORY SINK IN BUILDING E. REMOVE UPPER CASEWORK AND REINSTALL AS NEEDED TO GET CONDENSATE LINE IN THE WALL TYPICAL.



THIS IS A TYPICAL CLASSROOM SINK. REMOVE TRICKLE WALL PANELS AS NEEDED, OR COME IN FROM OPPOSITE SIDE.

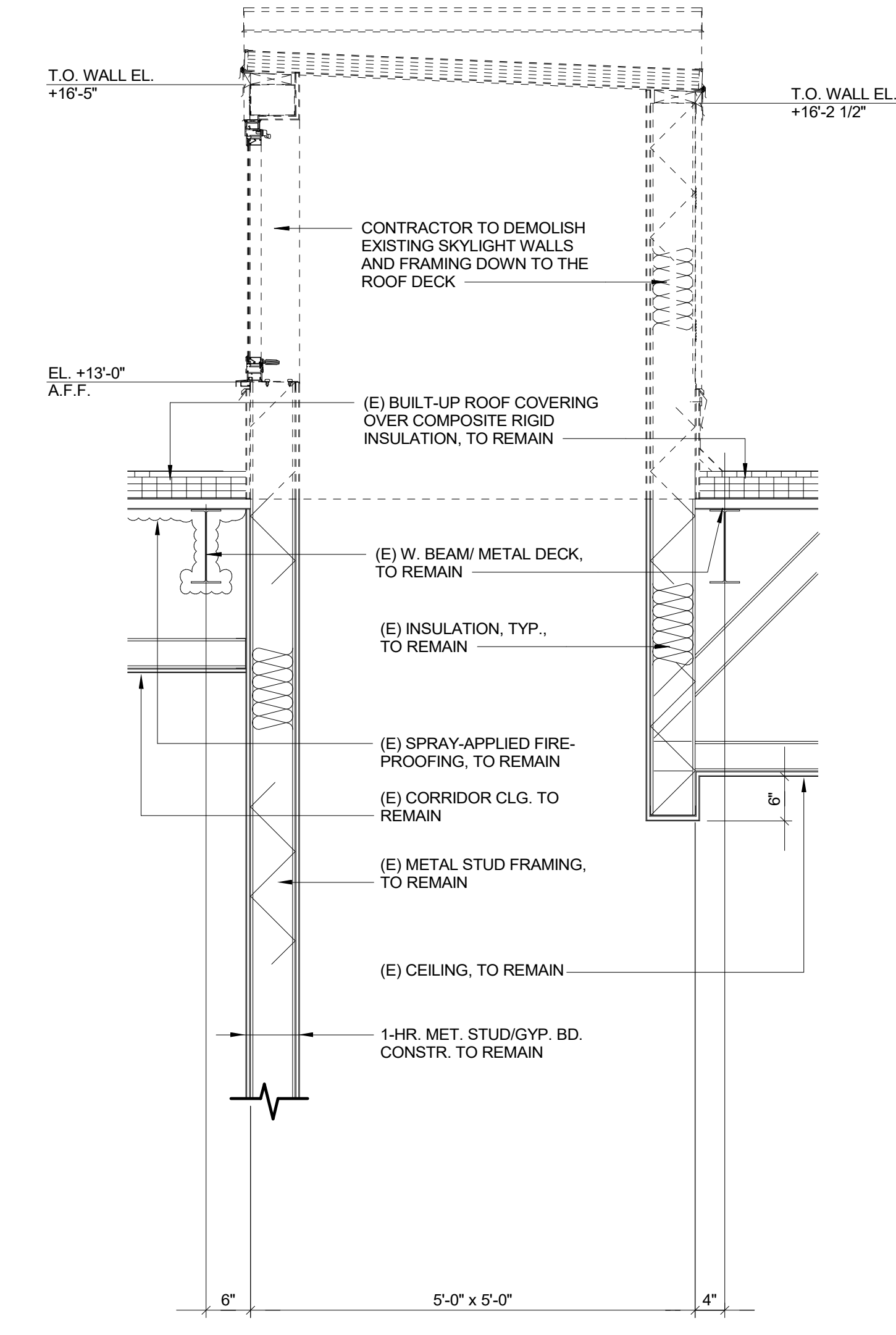


BELOW THIS IS A TYPICAL KITCHEN SINK. REMOVE CASEWORK AS NEEDED.

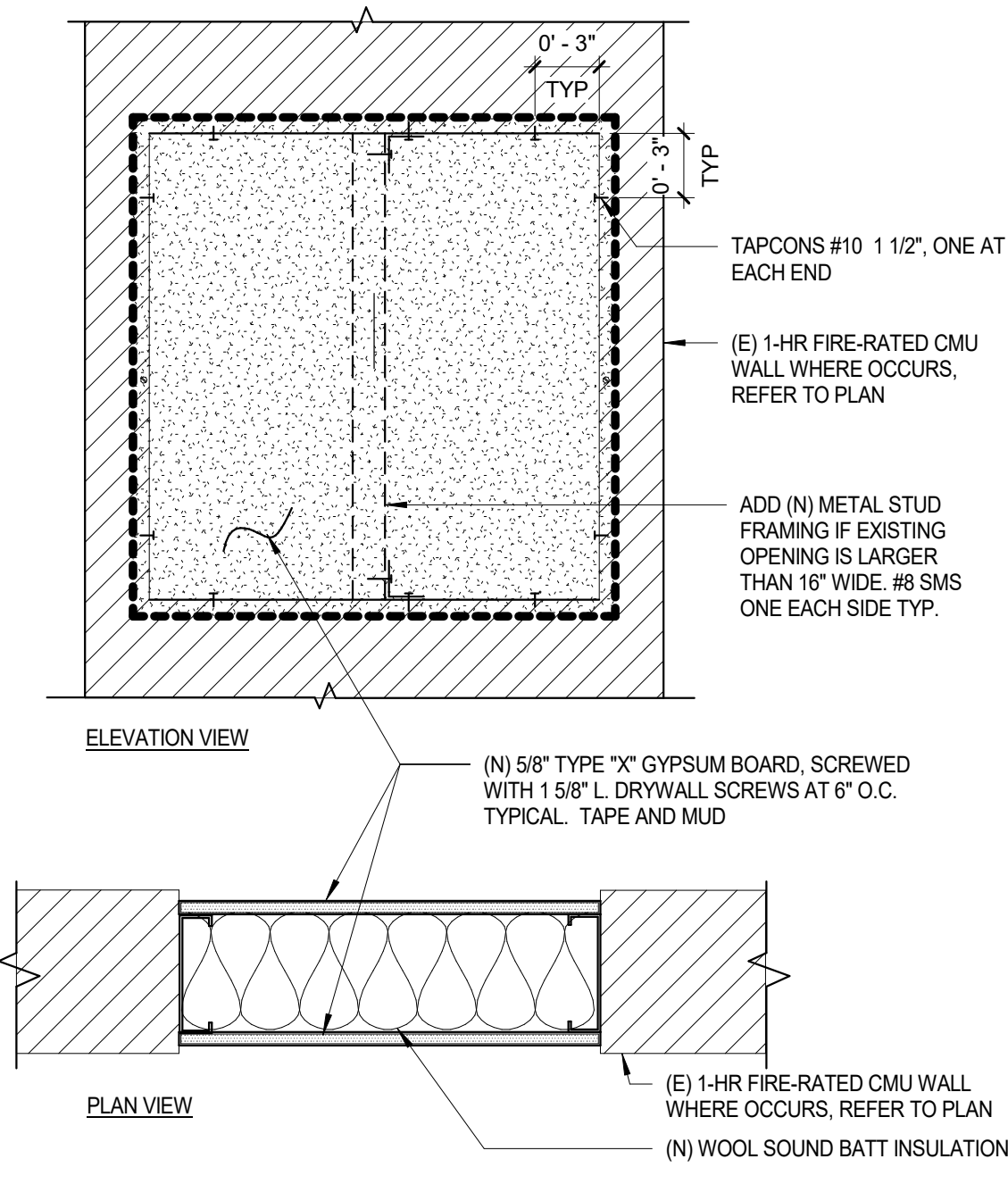


NOTE: SEE ALL MECH SHEETS FOR REQUIRED DRY WELL LOCATION. THIS DETAIL SHALL BE USED FOR ALL EXTERIOR CONDENSATION DRAIN PIPES, TYP.

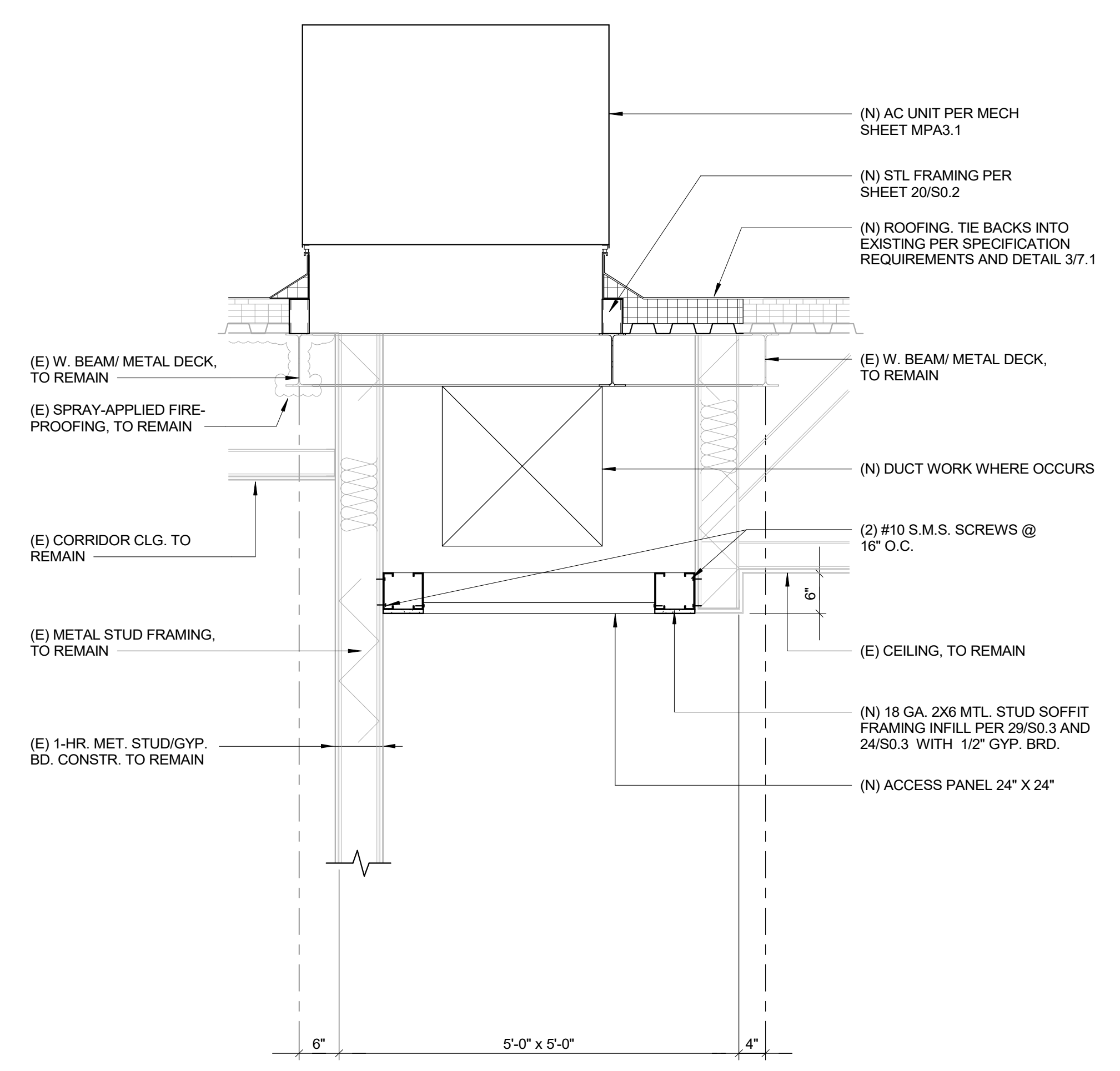
CONDENSATE LINE TO EXTERIOR 3/4" = 1'-0" 8



BUILDING A - LIGHT WELL DEMO DETAIL 3/4" = 1'-0" 5

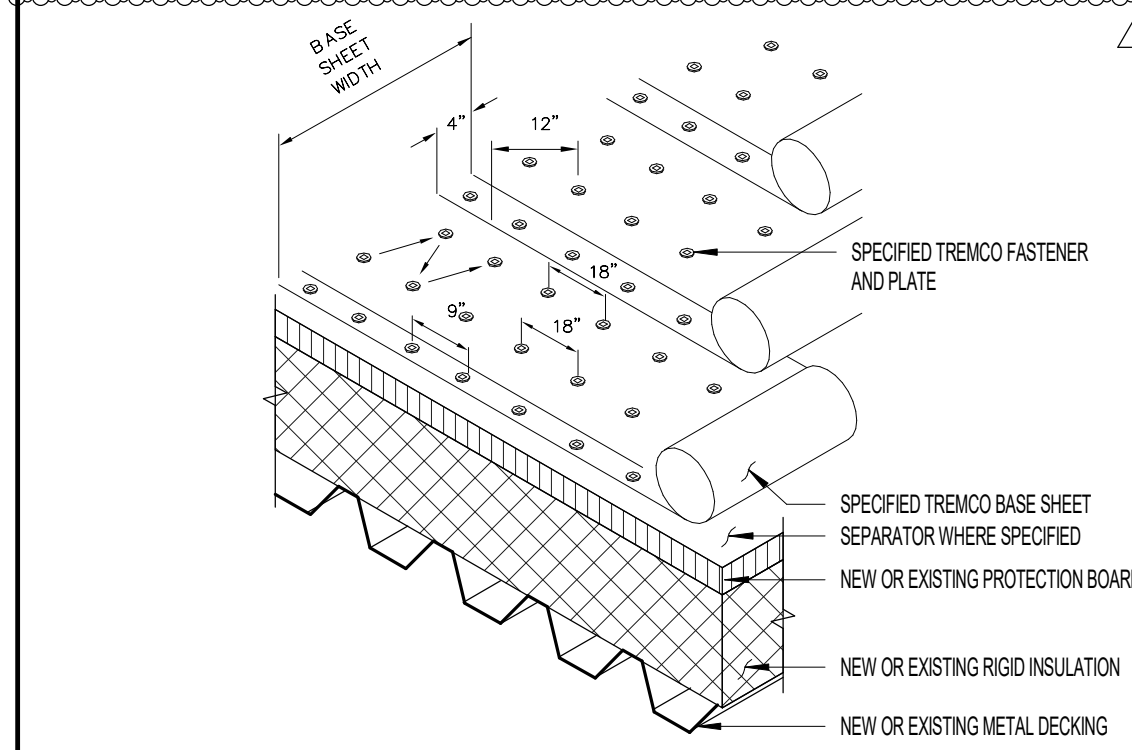


FIRE DAMPER INFILL 1 1/2" = 1'-0" 9



BUILDING A - LIGHT WELL INFILL 3/4" = 1'-0" 6

DRAIN CONNECTION @ SINK 3/4" = 1'-0" 1



- ATTACH BASE SHEET TO THE ROOF DECKING WITH APPROVED FASTENERS AND DISCS.
- SPACE FASTENERS 9 INCHES ON CENTER ALONG SIDELAP AND 18 INCHES ON CENTER IN TWO ROWS EQUALLY STAGGERED DOWN THE LONGITUDINAL CENTER OF THE SHEET (12 INCHES FROM EACH EDGE).
- INCREASE PERIMETER EDGE FASTENING BY 70% AND CORNER FASTENING BY 160% PER FM GLOBAL LOSS PREVENTION DATA SHEETS 1-28 AND 1-29.
- DETERMINE FASTENER DENSITY ON A UNIT AREA PER FASTENER BASIS. ADD ADDITIONAL ROWS AND INCREASE FASTENERS PER ROW. DO NOT SPACE FASTENERS CLOSER THAN 4 INCHES ON CENTER.
- INCREASE FASTENERS PER ROW FOR OTHER SUBSTRATES BESIDES WOOD AS SHOWN HERE. VERIFY REQUIREMENTS PER TREMCO PRODUCT MANUFACTURERS INSTALLATION REQUIREMENTS.

TREMCO BASE SHEET 6" = 1'-0" 3

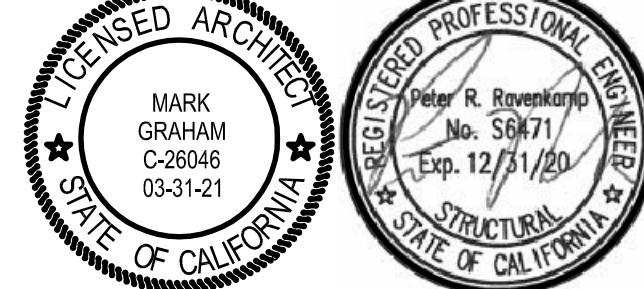


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GENERAL NOTES 1. VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM SHALL BE PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE APPROVED CONSTRUCTION DOCUMENTS.

Table with columns: NO, DATE, BY, DESCRIPTION, REVISIONS

DRAWN: 12/08/2020 CHECKED: SCALE: N.T.S. PROJECT NUMBER: 1917000

GENERAL NOTES DRAWING NUMBER: S0.1

DESIGN LOADS:

Table of design loads including roof dead load, wind speed, seismic design data, and response modification coefficient.

GENERAL: 1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2019 C.A.G. TITLE 24, PART 1, AND 2019 C.B.C. TITLE 24, PART 2, FOR DSA'S.

CONCRETE:

- 1. THE MINIMUM STRENGTH OF CONCRETE AT END OF 28 DAYS SHALL BE: SLABS ON GRADE - 4000 PSI - -150 PCF

- 1. BOTH MILL CERTIFICATIONS AND MILL TAGS MUST BE STORED AT THE TIME OF DELIVERY OR INSPECTION

STRUCTURAL OBSERVATION:

- 1. VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM SHALL BE PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE APPROVED CONSTRUCTION DOCUMENTS.

MECHANICAL UNIT FRAMING NOTES:

- 1. THE GENERAL CONTRACTOR SHALL COORDINATE THE MECHANICAL UNIT TYPE AND QUANTITY WITH THE MECHANICAL AND STRUCTURAL DRAWINGS.

SPECIAL INSPECTION:

- 1. GENERAL: THE OWNER SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 105A.

SPECIAL INSPECTION (CONCRETE):

- 1. THE SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY THE DSA LOS FORM AND TABLE 105A.3.

STRUCTURAL STEEL:

- 1. STEEL SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING A.S.T.M. DESIGNATIONS: H SHAPES - - - - - ASTM A-992 GRADE 50

METAL DECKING:

- 1. STEEL MATERIAL FOR THE DECK UNITS SHALL CONFORM TO ASTM A-653 AND ICC-ES ESR-1399

SPECIAL INSPECTION (STEEL):

- 1. SPECIAL INSPECTION OF FABRICATORS PER SECTION 105A.2

Table: REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION (TABLE 105A.2)

Table with columns: VERIFICATION AND INSPECTION, CONTINUOUS SPEC. INSP., PERIODIC SPEC. INSP., REFERENCED STANDARD, C.B.C. REFERENCE

ADHESIVE ANCHORS IN CONCRETE:

Table: REBAR, ASTM A615 GRADE 60, ALL-THREAD ASTM A36/F1554

- 1. ALL WORK SHALL BE INSTALLED UNDER CONTINUOUS INSPECTION BY INSPECTOR OF RECORD.

LEGEND:

Table mapping abbreviations to full names for structural elements like ANCHOR BOLT, BEAM, BRACKET, etc.

COLD-FORMED METAL FRAMING:

- 1. COLD ROLLED STEEL SHEET FOR STRUCTURAL PRODUCTS SHALL CONFORM TO ASTM C825, ASTM A902-95 OR 3036 ASTM A955 95 GRADE 30

ADHESIVE ANCHORS IN CONCRETE:

Table: REBAR, ASTM A615 GRADE 60, ALL-THREAD ASTM A36/F1554

- 1. ALL WORK SHALL BE INSTALLED UNDER CONTINUOUS INSPECTION BY INSPECTOR OF RECORD.

PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:

- 1. ANCHOR DIAMETER REFERS TO THE TREAD SIZE FOR THE WEDGE & SHELL CATEGORIES, AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.

Table: EXPANSION ANCHORS TEST VALUES CONCRETE

- 1. ALL WORK SHALL BE INSTALLED UNDER CONTINUOUS INSPECTION BY INSPECTOR OF RECORD.

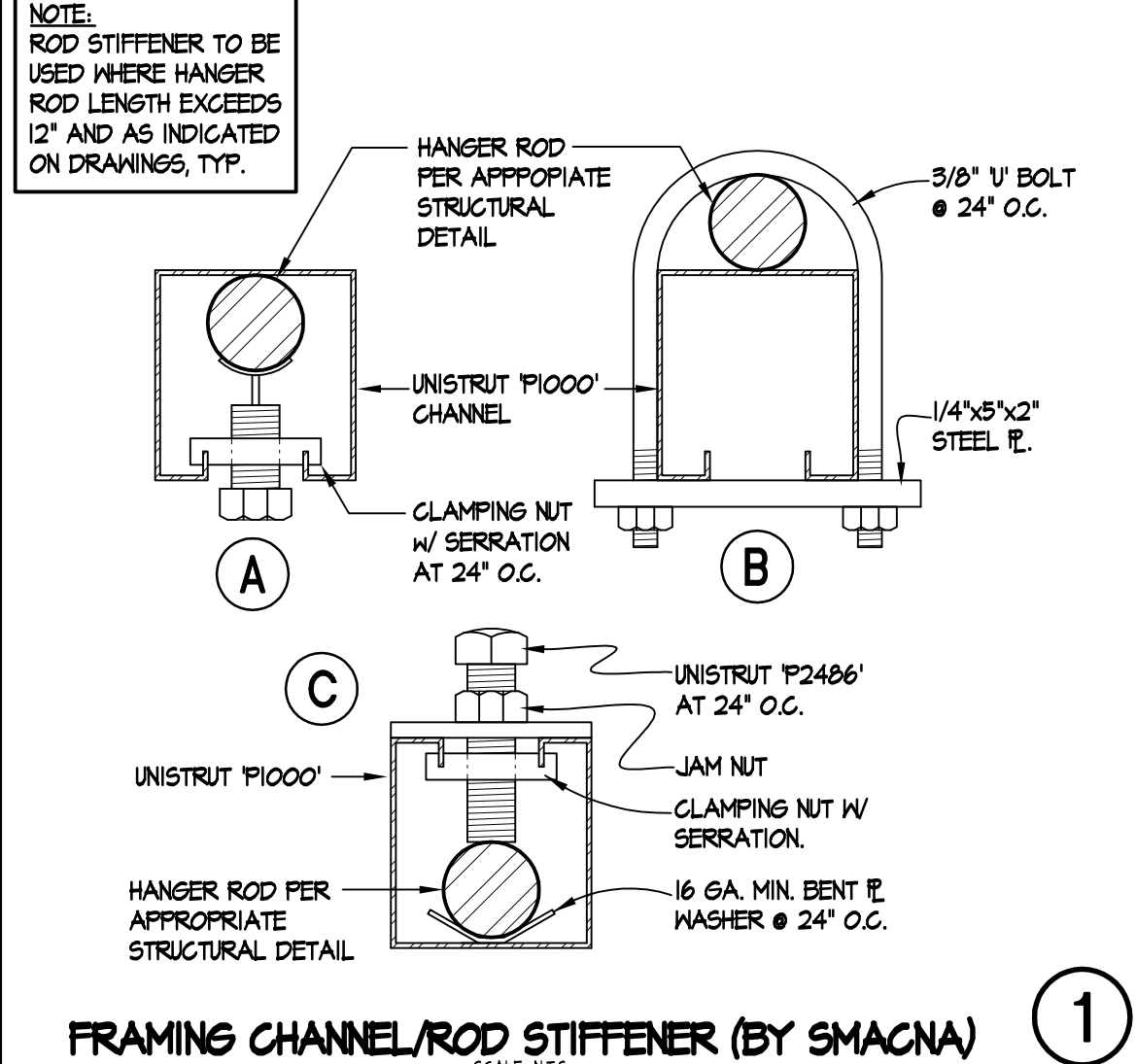


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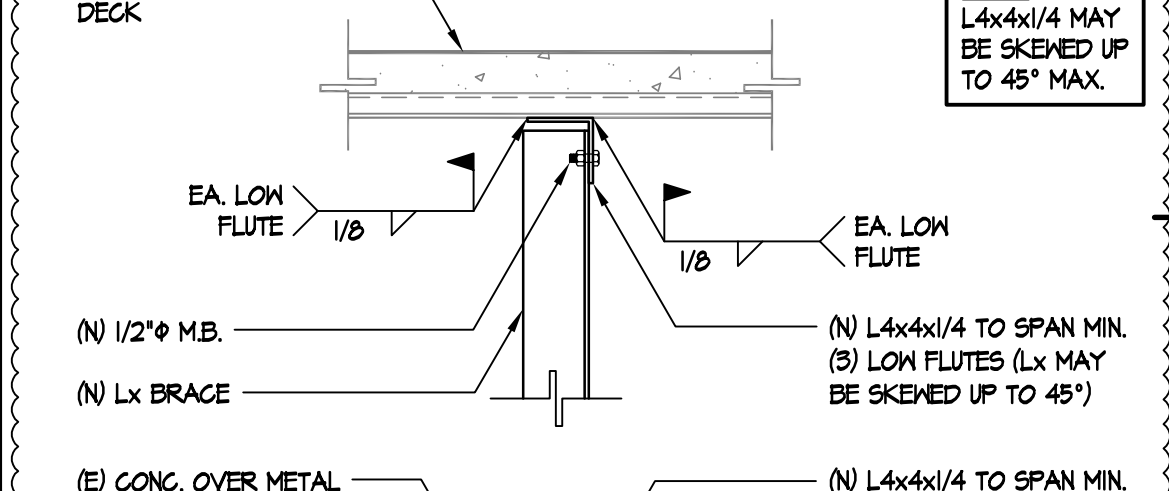
1 8/25/20 JV ADDENDUM 1
NO DATE BY DESCRIPTION
REVISIONS

DRAWN: DATE: 12/08/2020 CHECKED: SCALE: N.T.S.
PROJECT NUMBER: 1917000

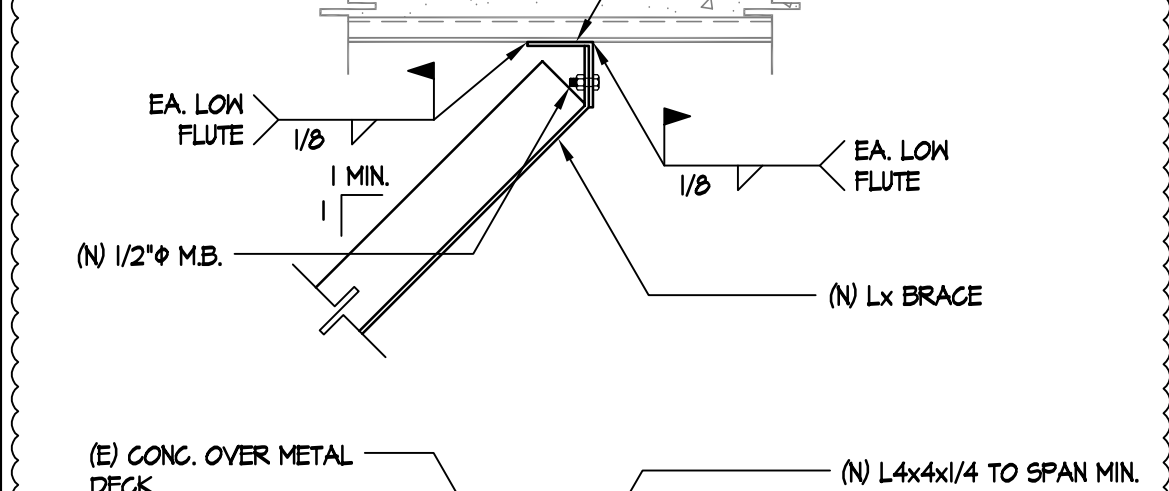
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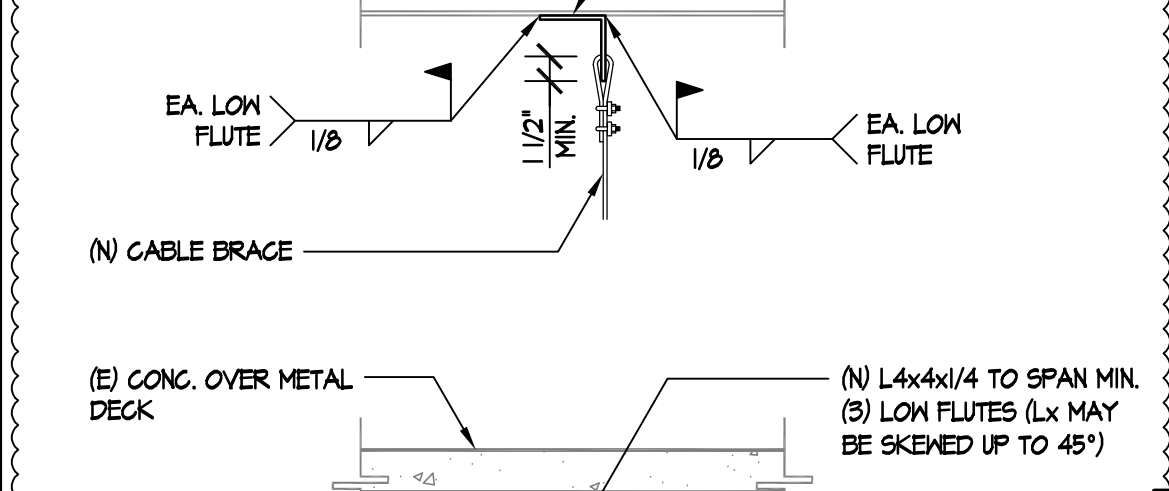
FRAMING CHANNEL/ROD STIFFENER (BY SMACNA) 1



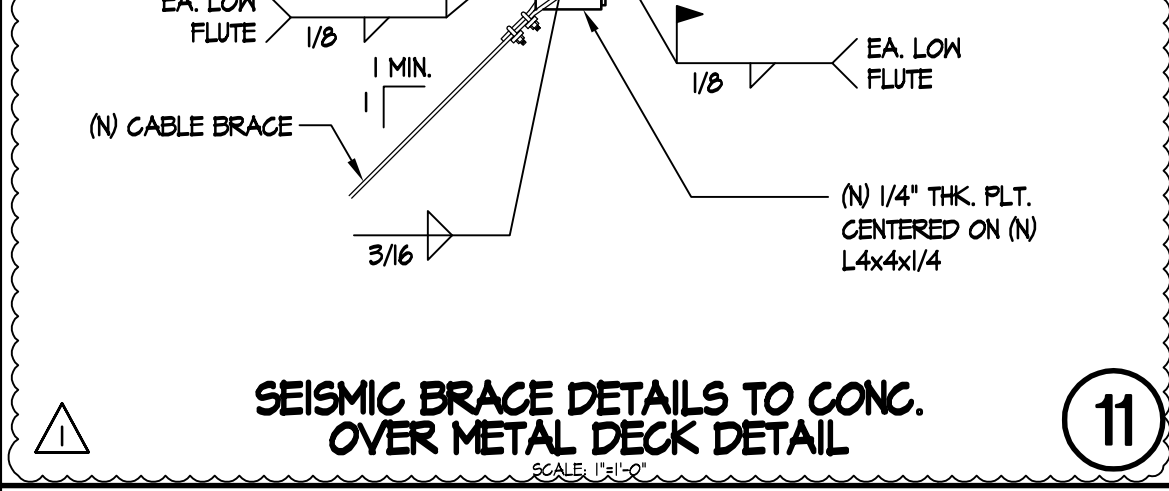
SEISMIC BRACE DETAILS TO CONC. OVER METAL DECK DETAIL 11



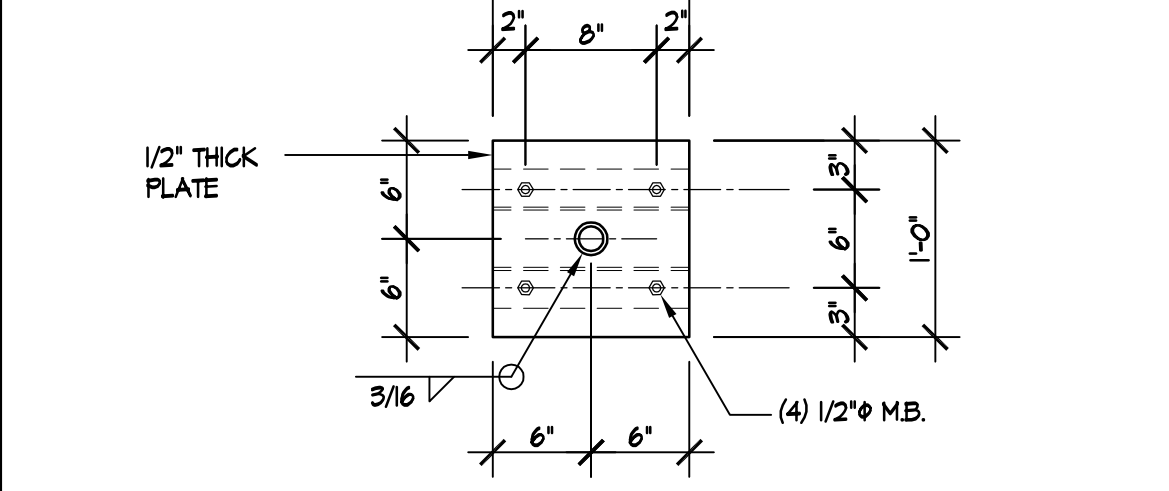
SEISMIC BRACE DETAILS TO CONC. OVER METAL DECK DETAIL 11



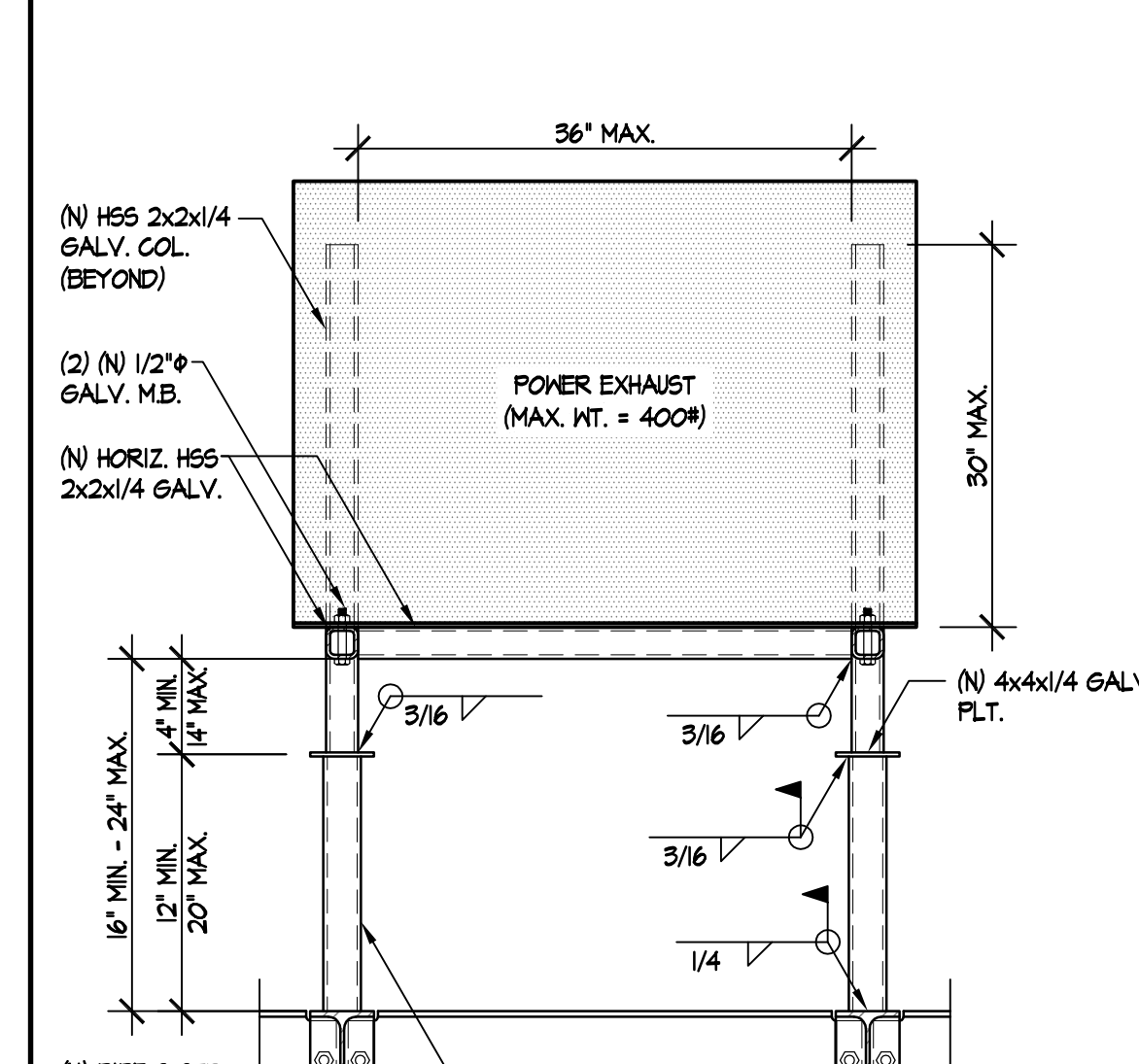
SEISMIC BRACE DETAILS TO CONC. OVER METAL DECK DETAIL 11



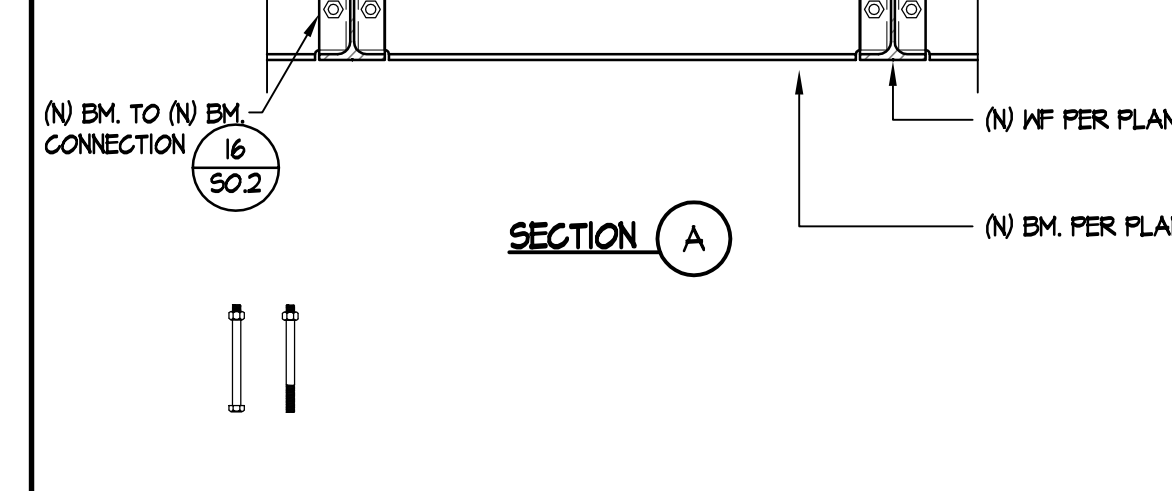
SEISMIC BRACE DETAILS TO CONC. OVER METAL DECK DETAIL 11



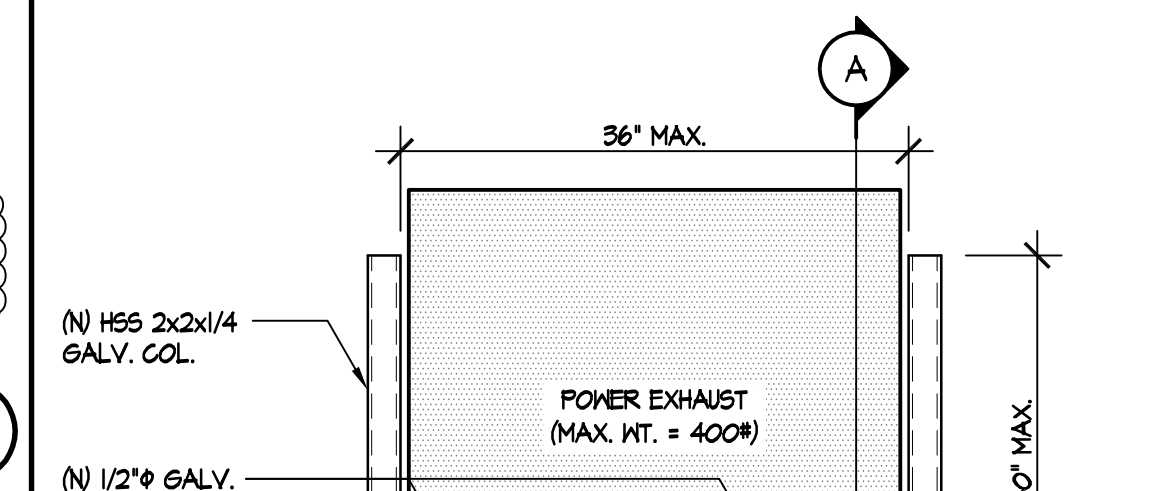
MECH. DUCT SUPPORT DETAIL 5



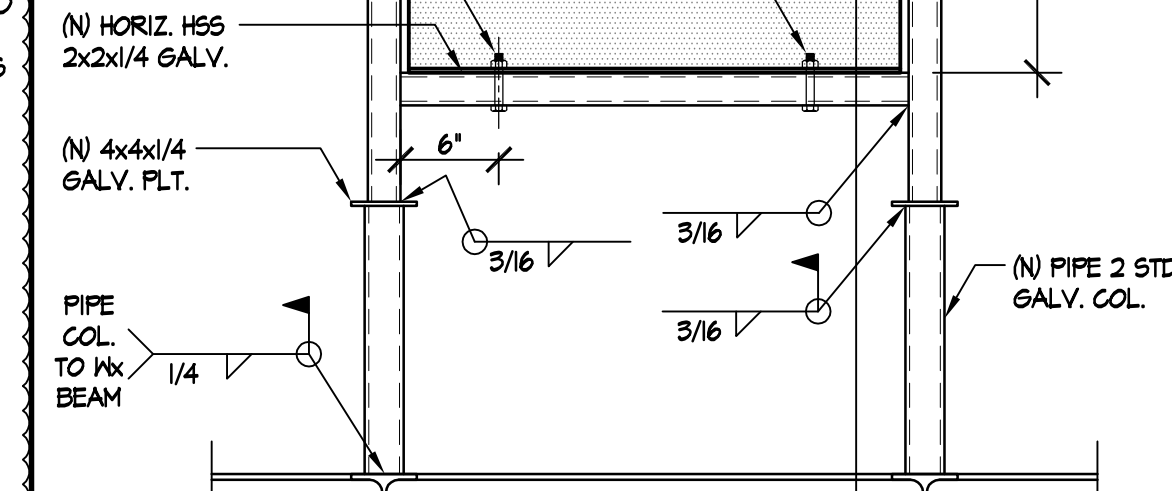
(N) POWER EXHAUST SUPPORT DETAIL 8



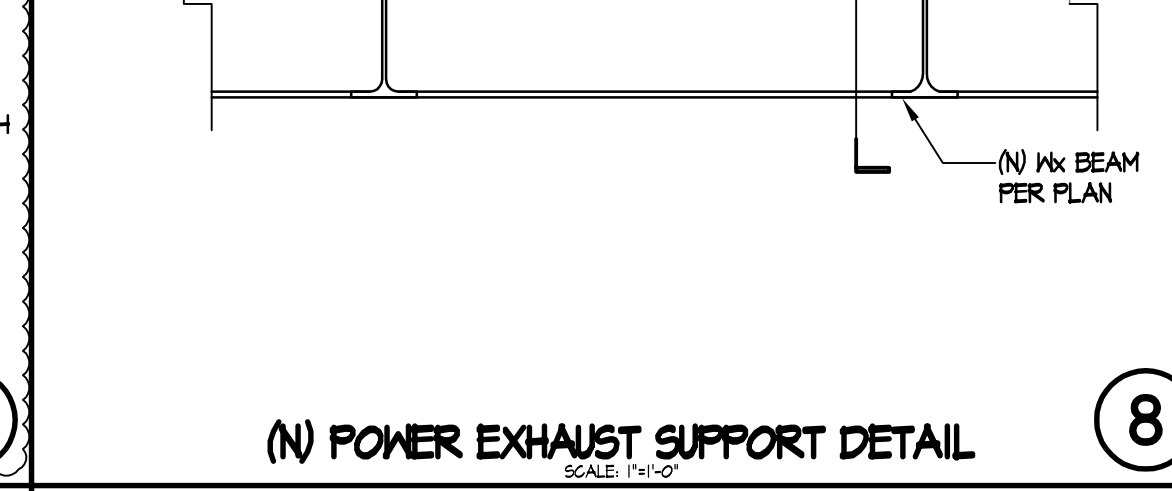
TYPICAL PIPE OR DUCT OPENING THROUGH CONCRETE ON METAL DECK 14



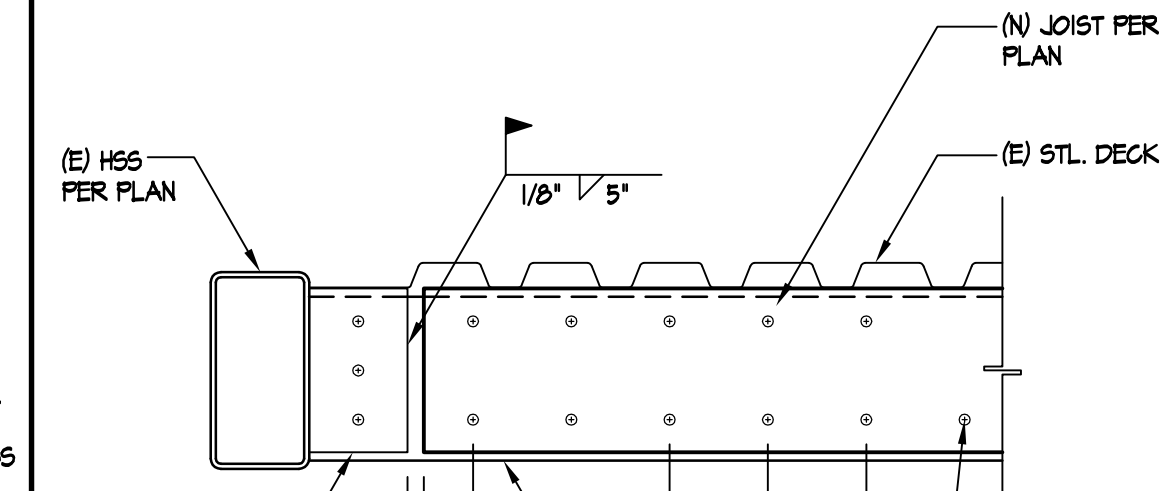
TYPICAL BEAM DEMO AT DECK DETAIL 15



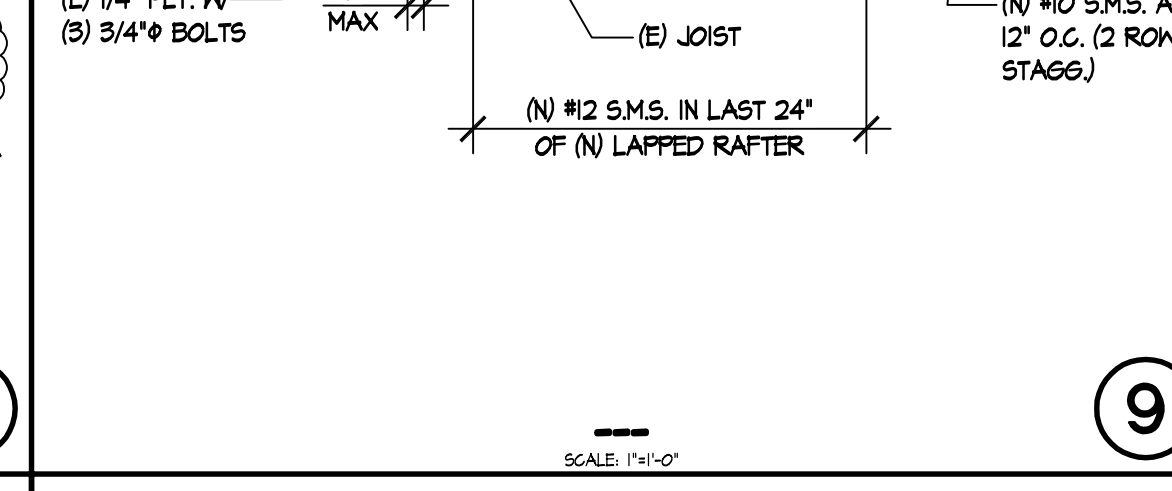
TYPICAL ROOF INFILL DETAIL 13



TYPICAL LARGE ROOF OPENING DETAIL 19



TYPICAL MECH UNIT CURB ATTACHMENT DETAIL 20



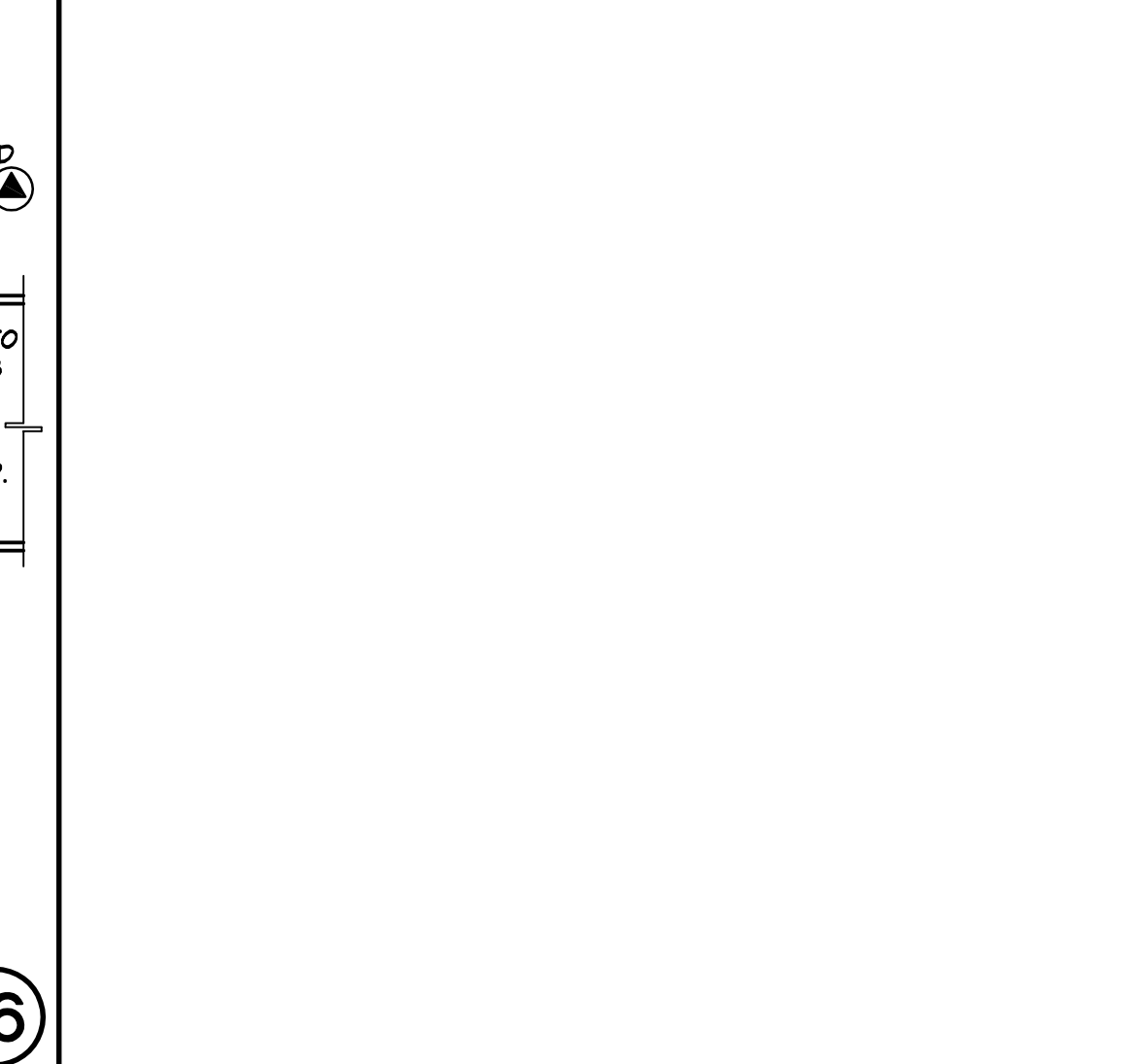
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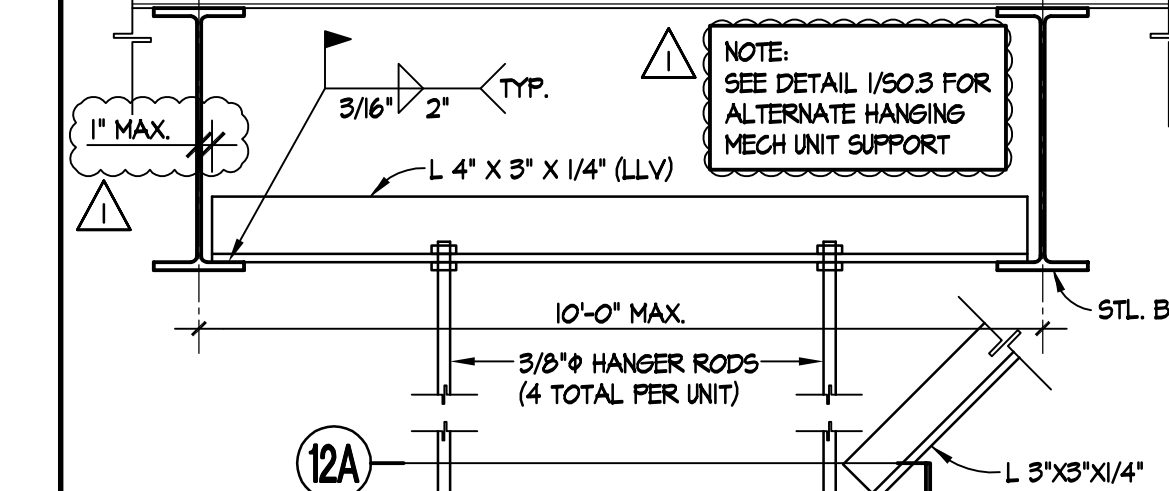
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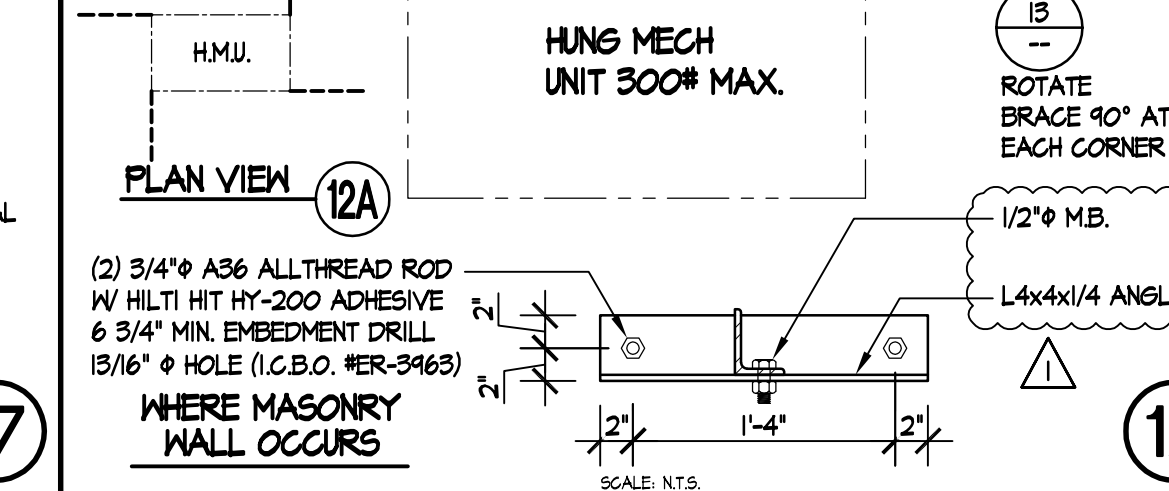
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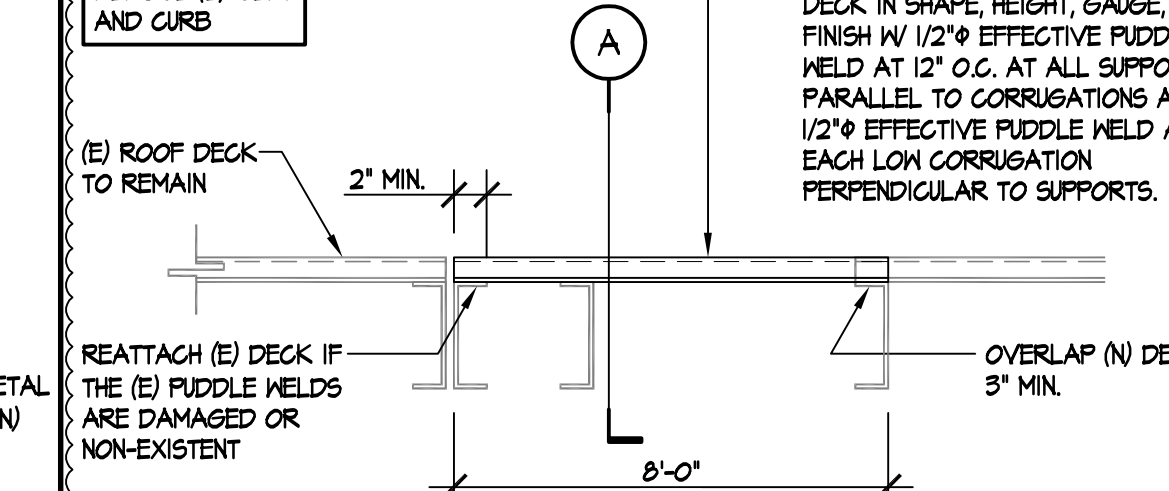
TYPICAL (N) BEAM TO (E) BEAM DETAIL 21



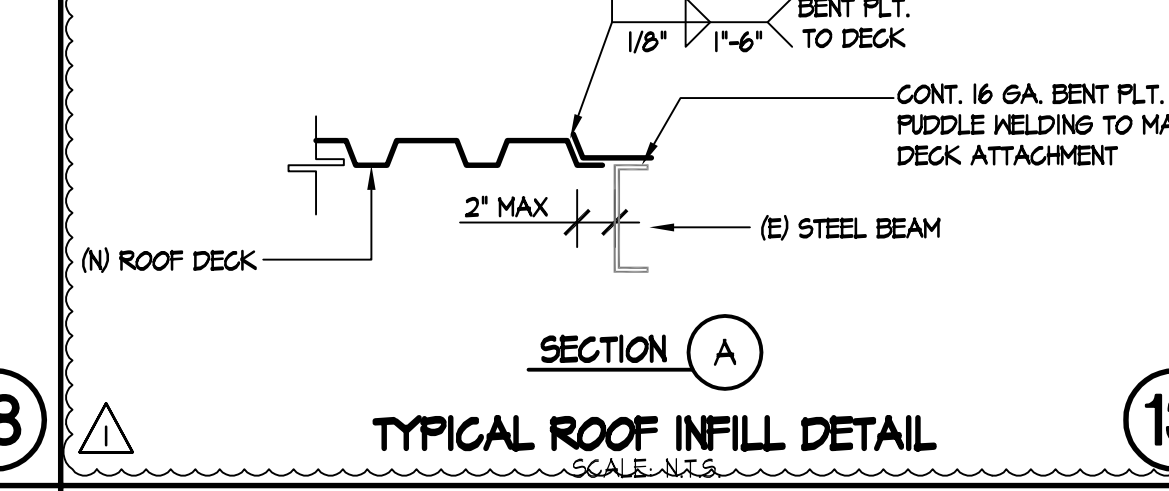
TYPICAL (N) BEAM TO (N) BEAM CONNECTION DETAIL 16



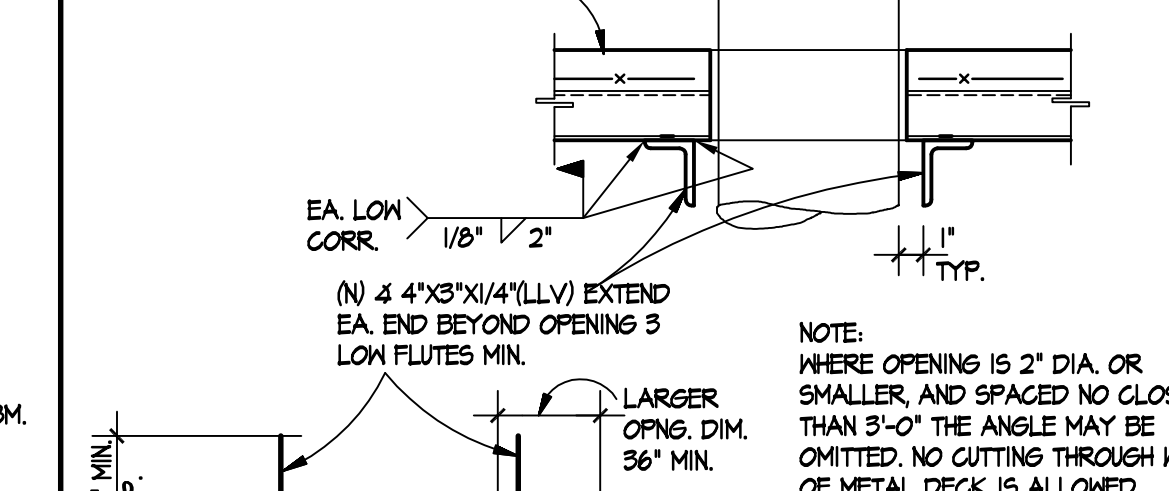
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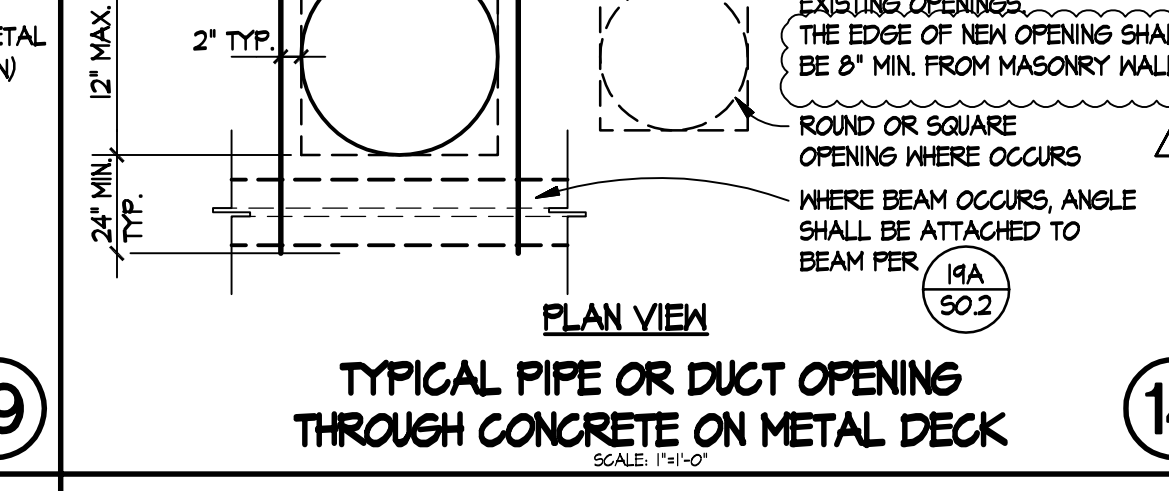
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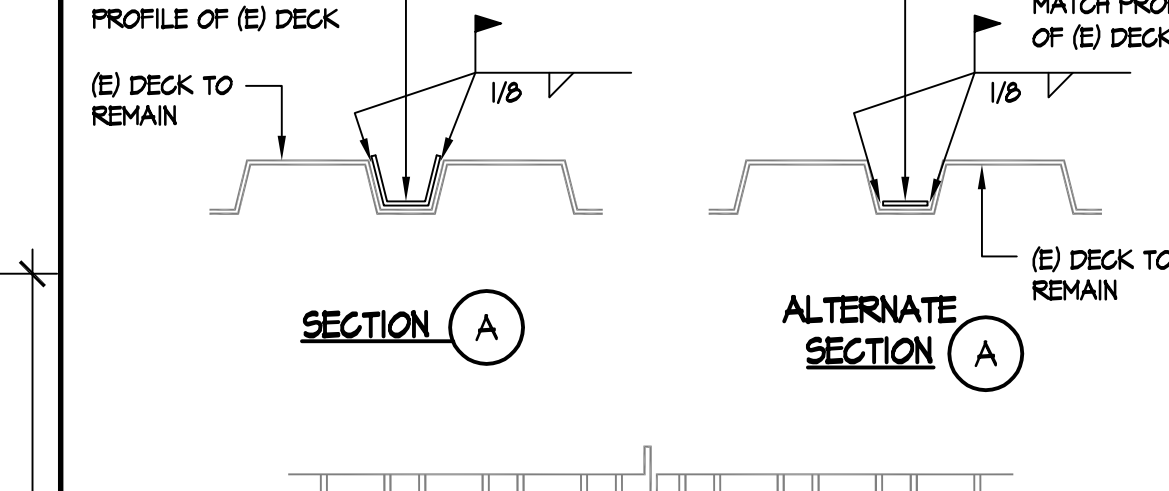
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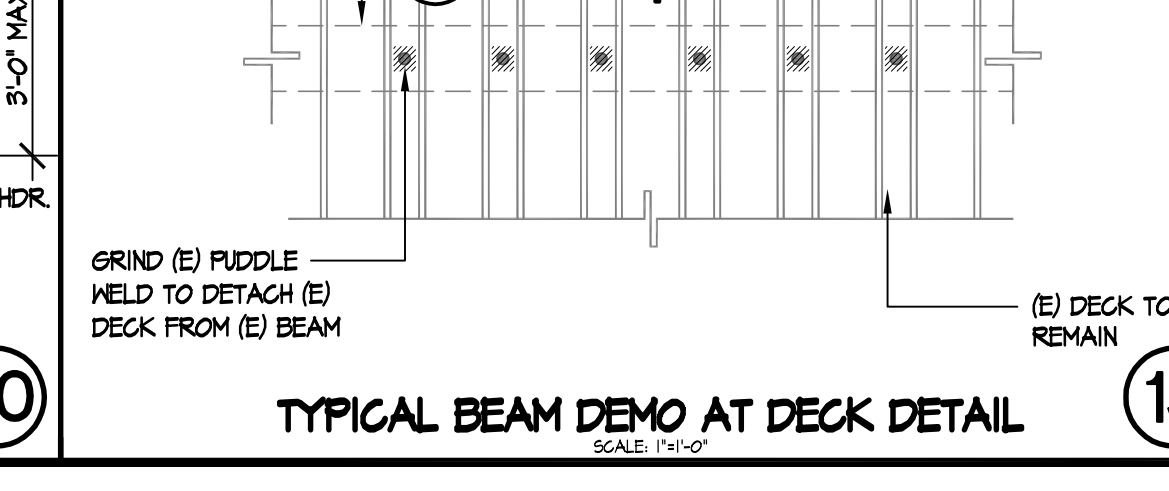
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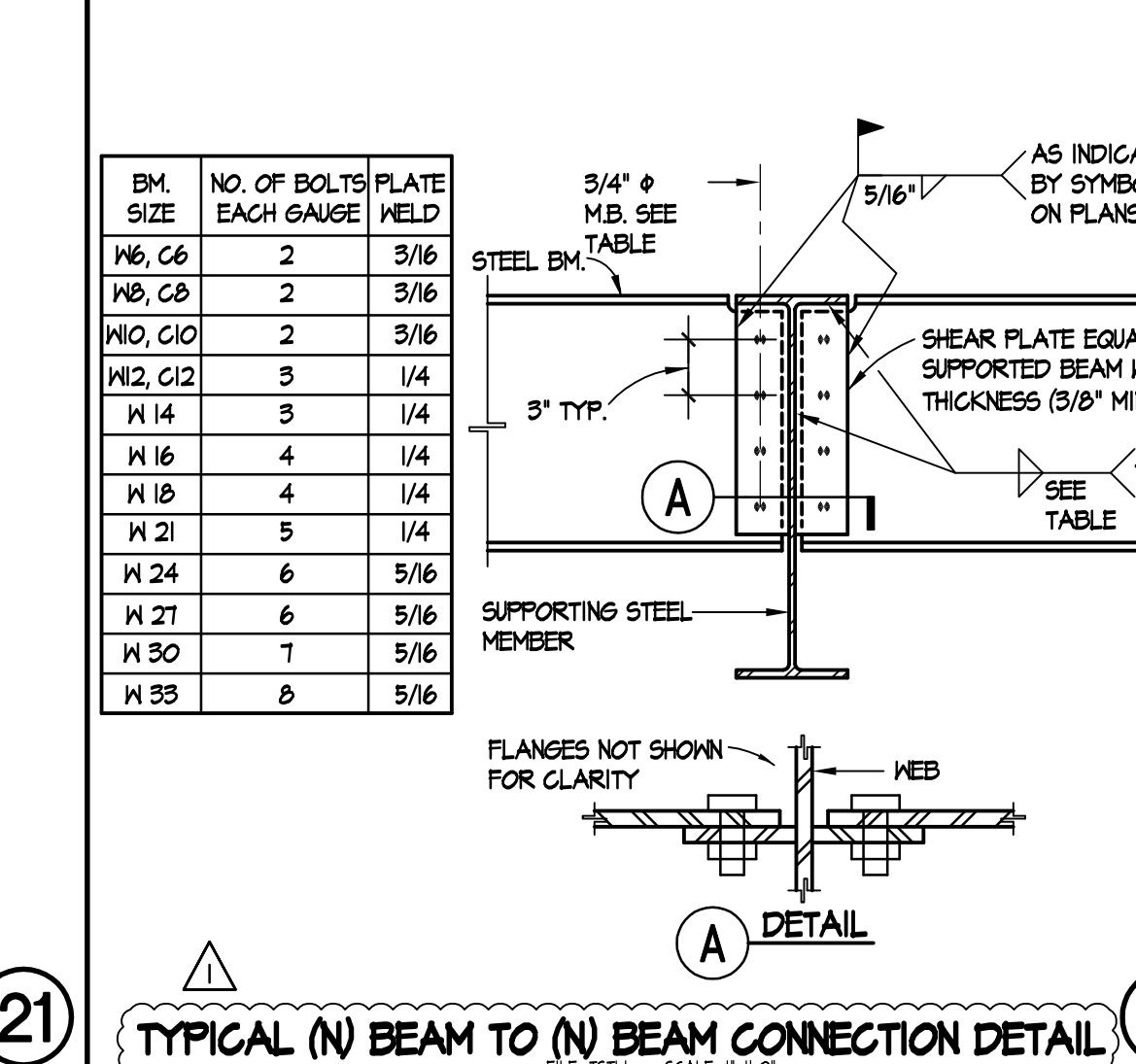
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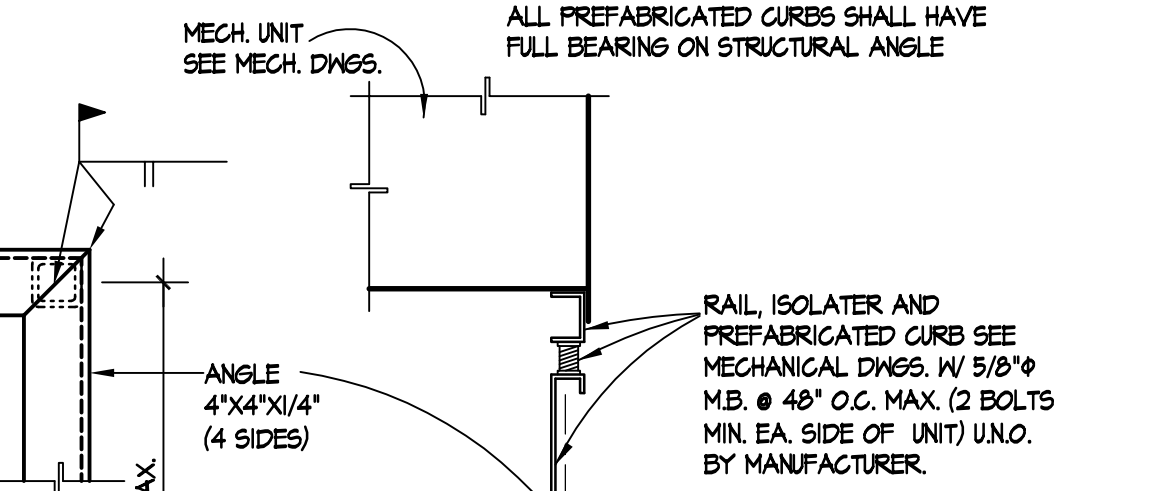
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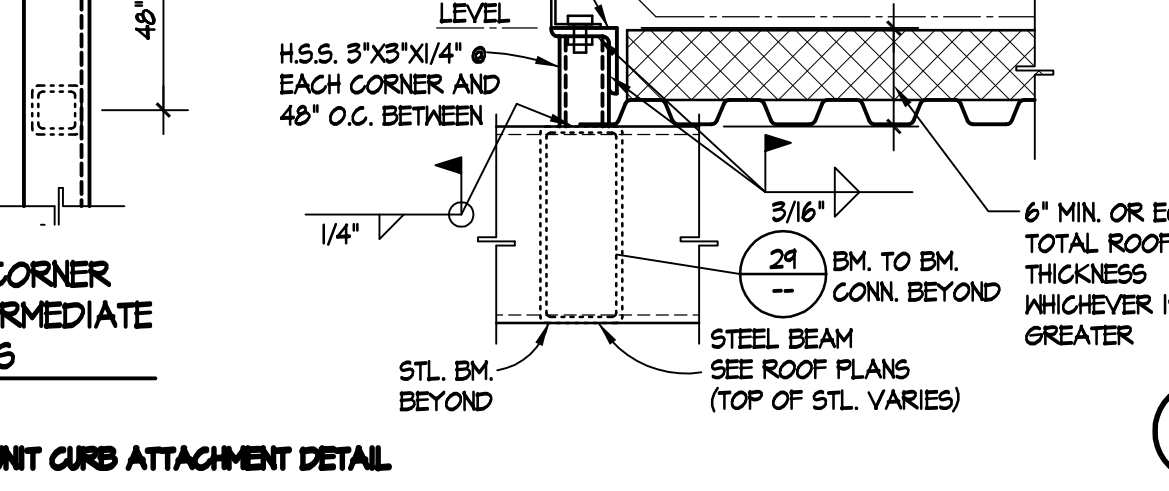
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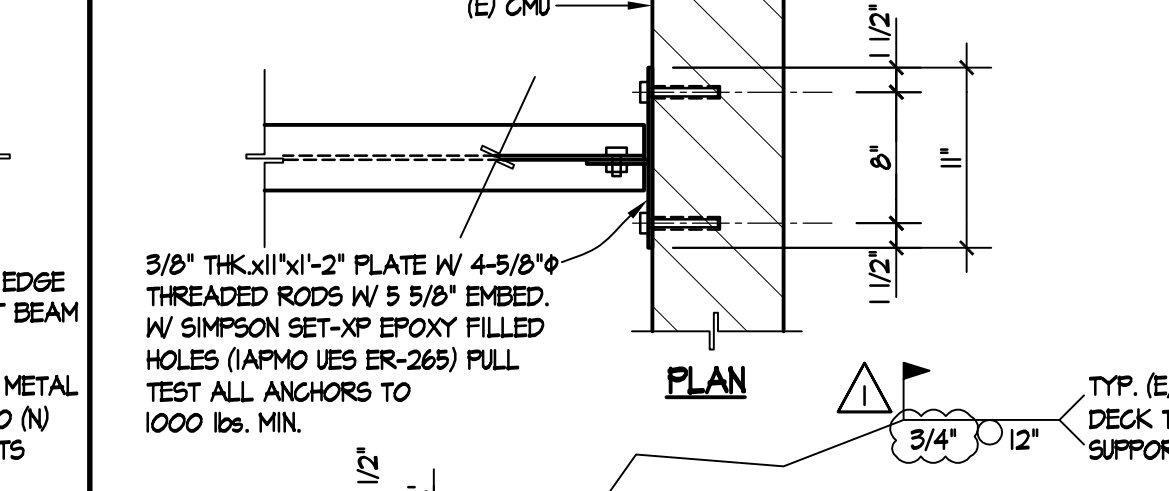
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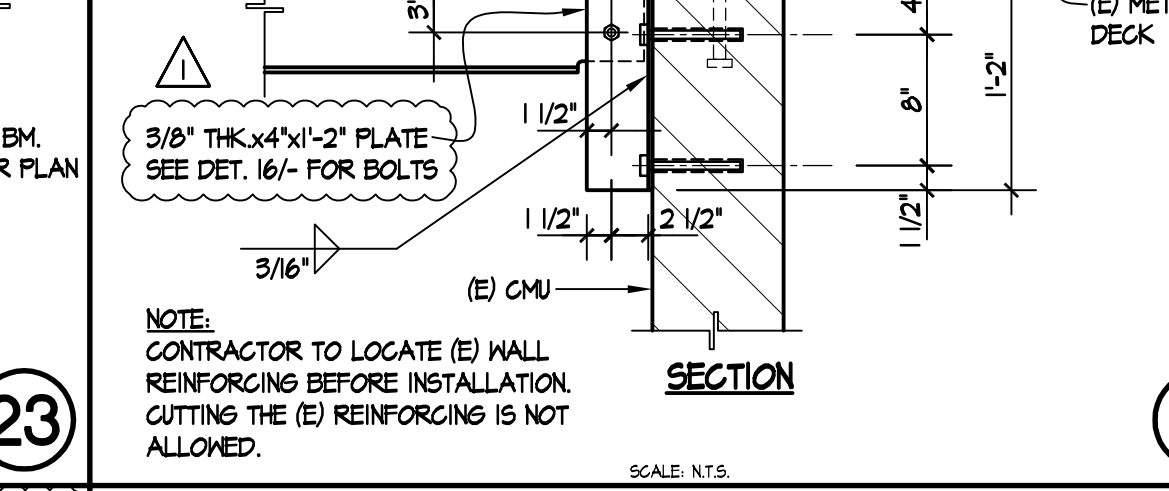
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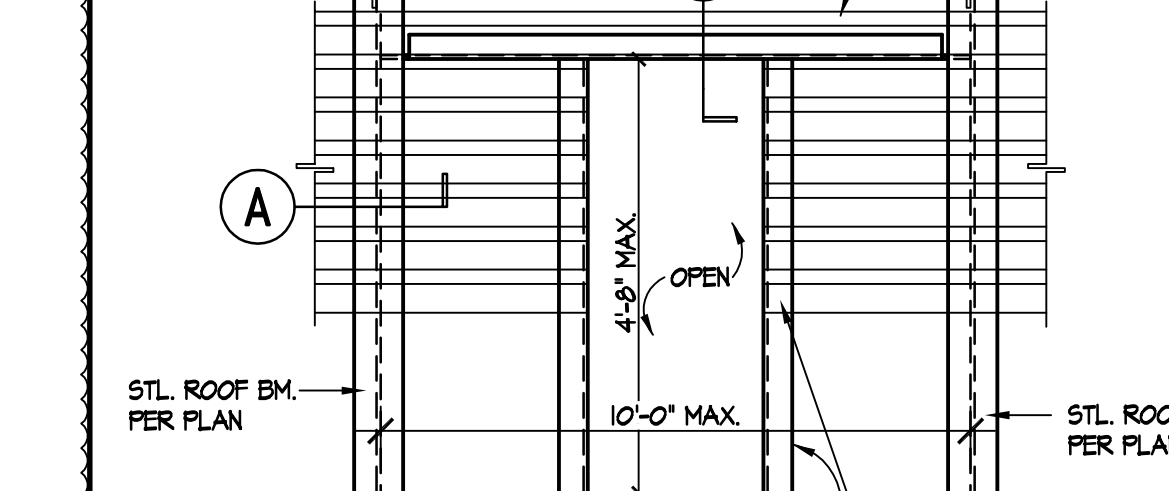
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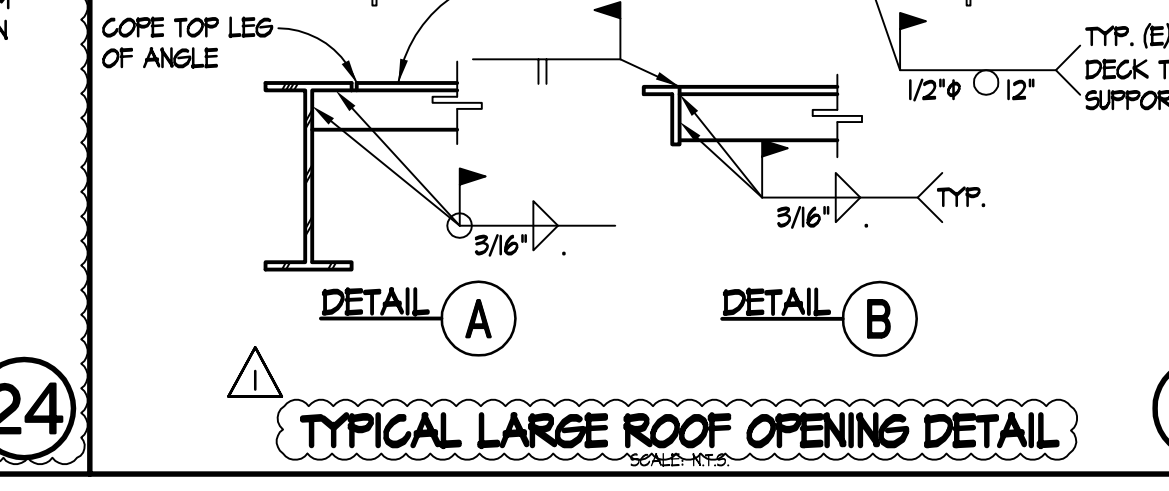
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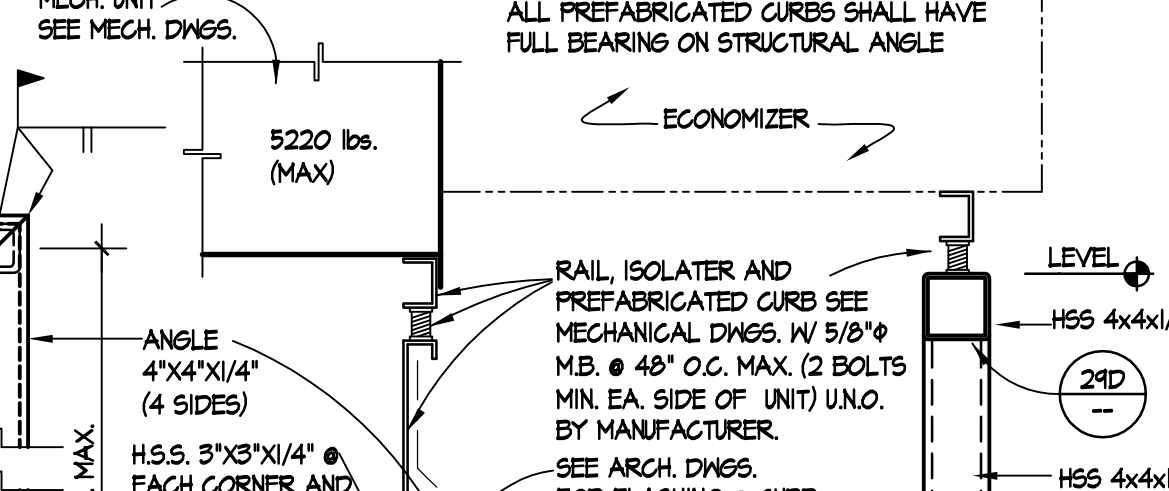
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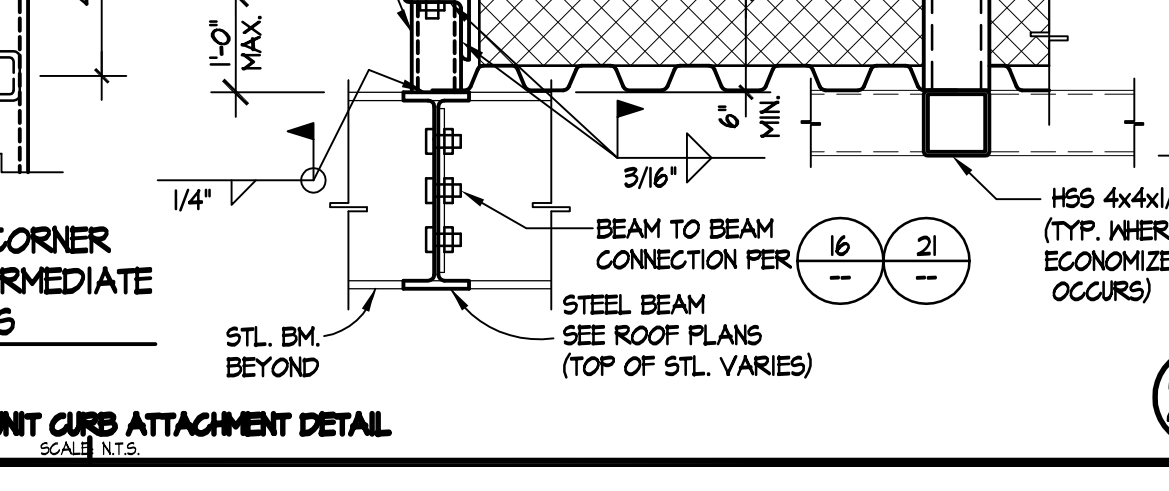
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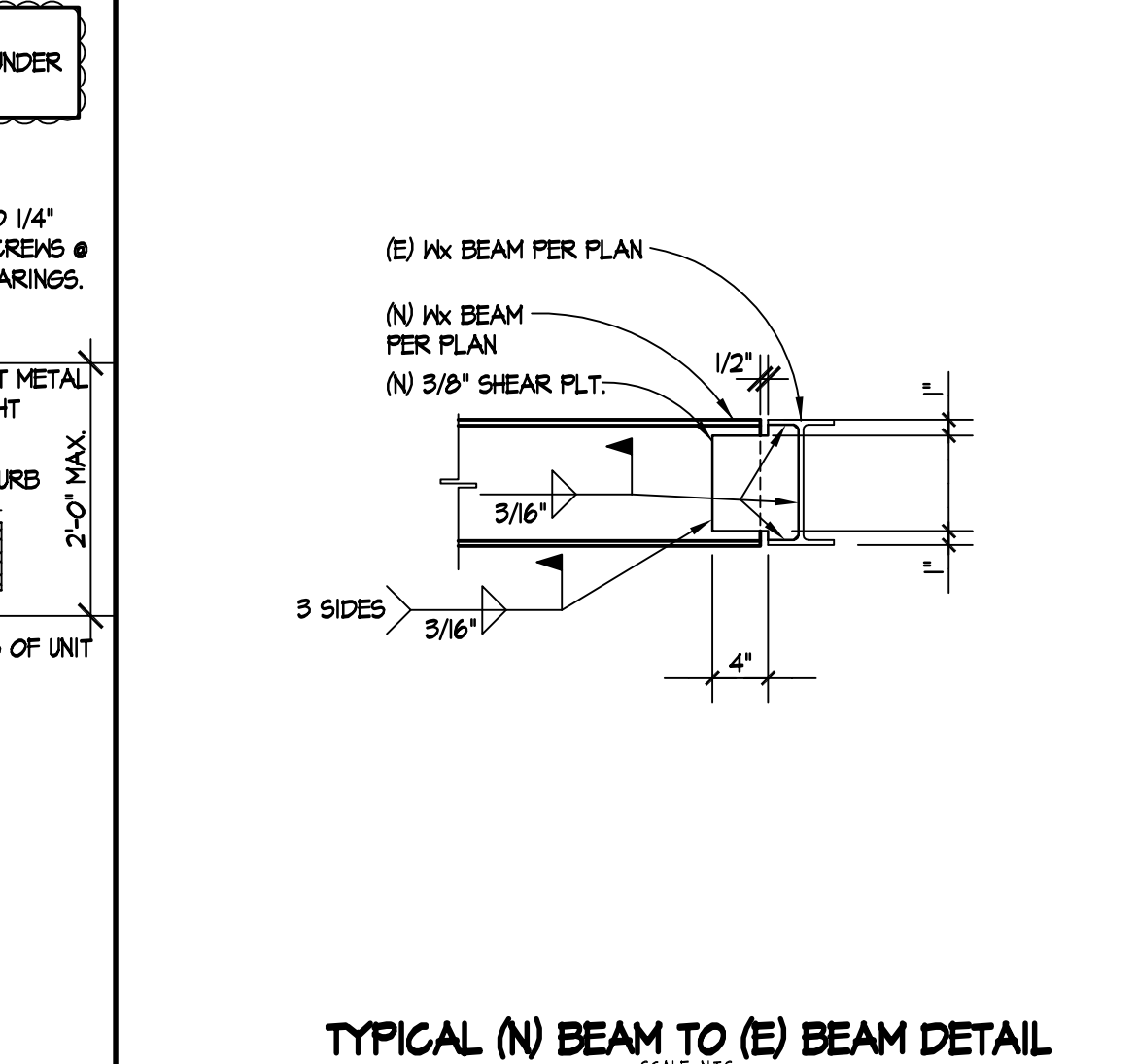
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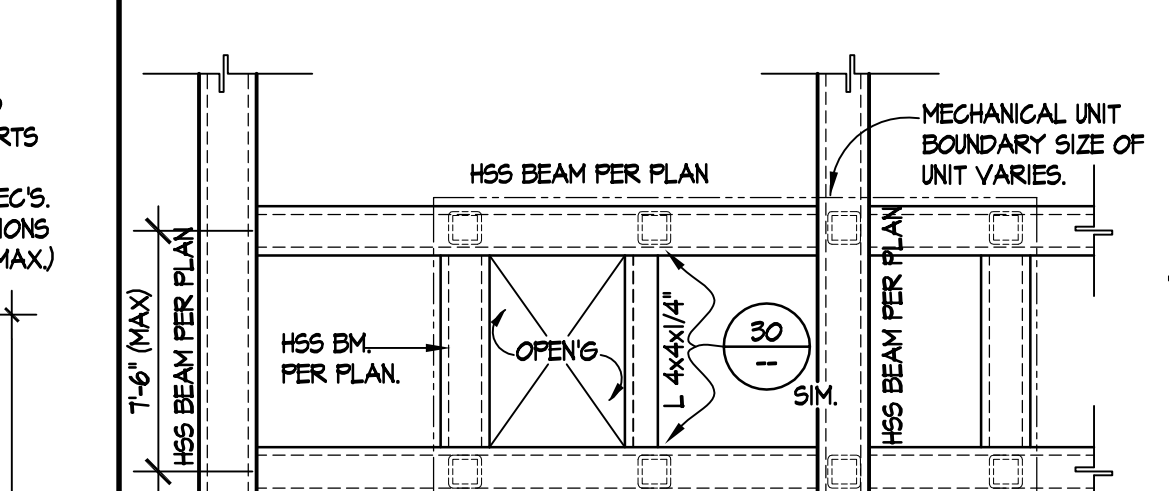
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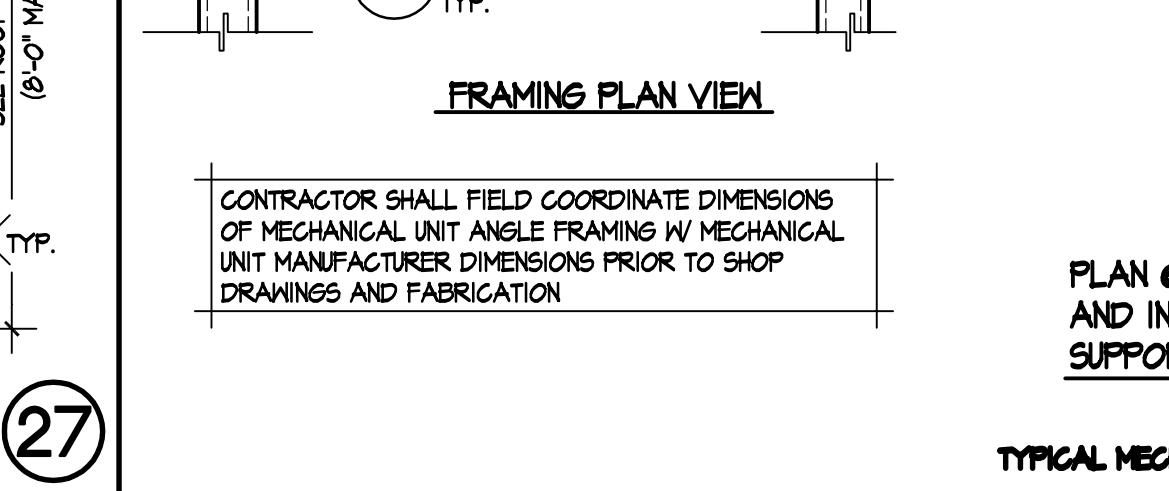
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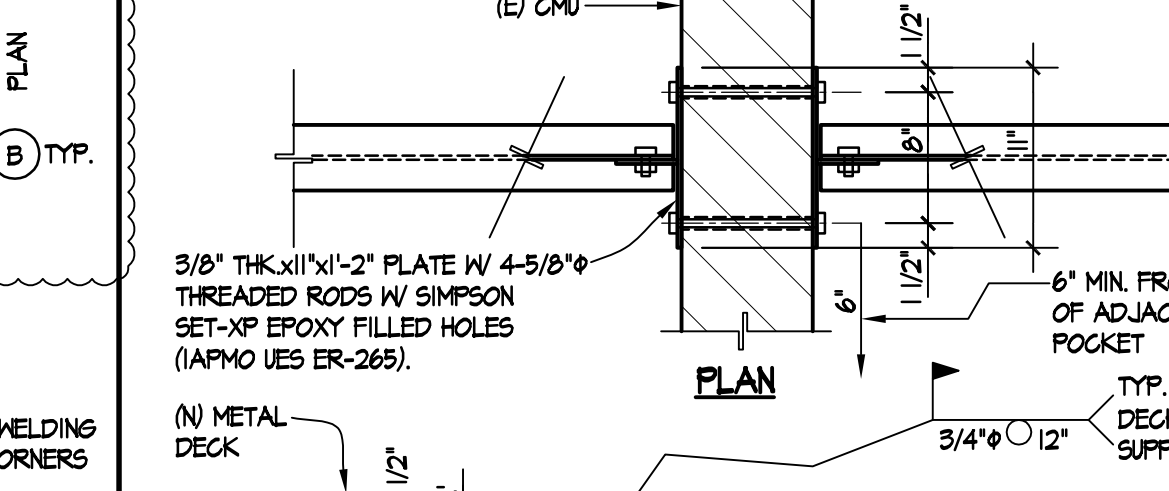
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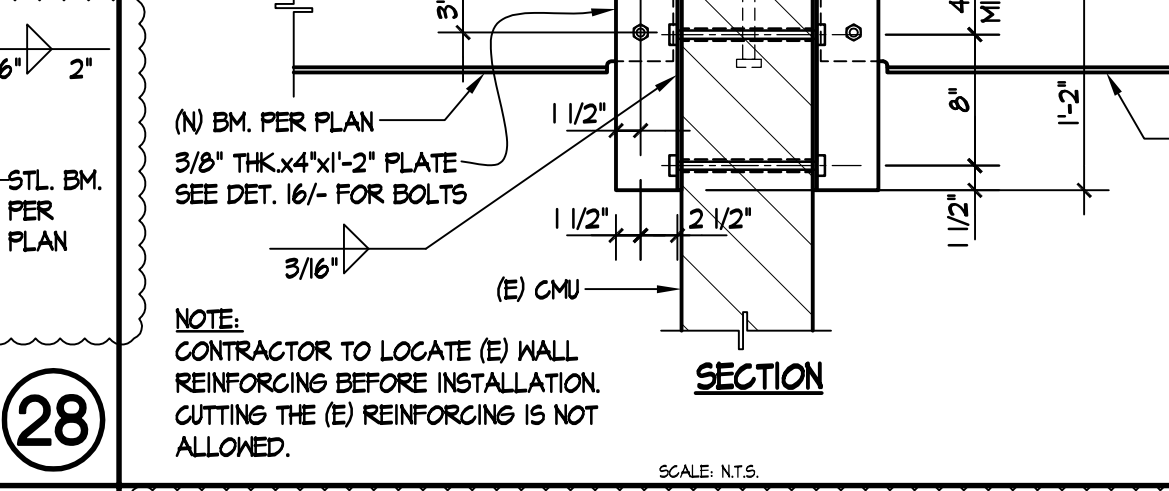
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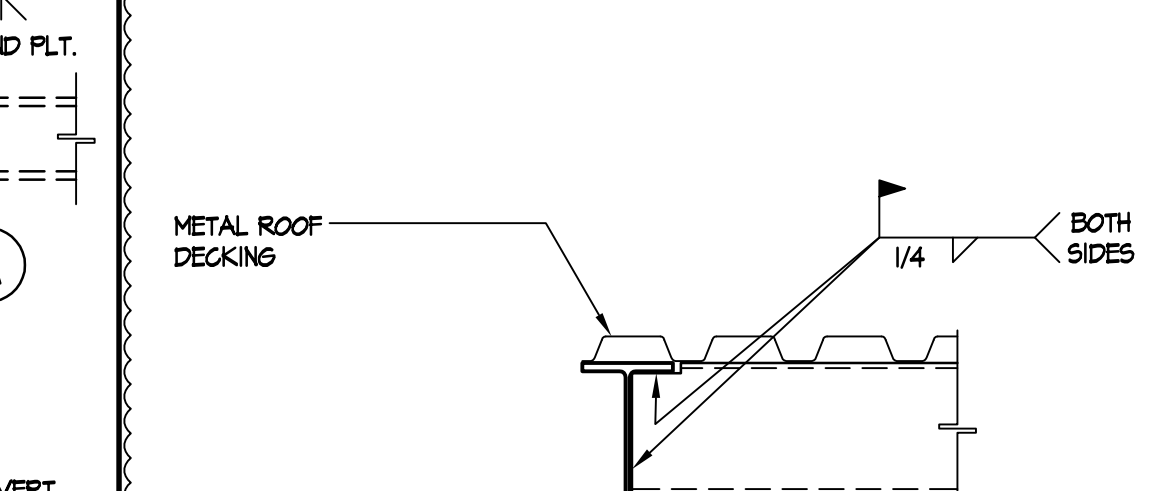
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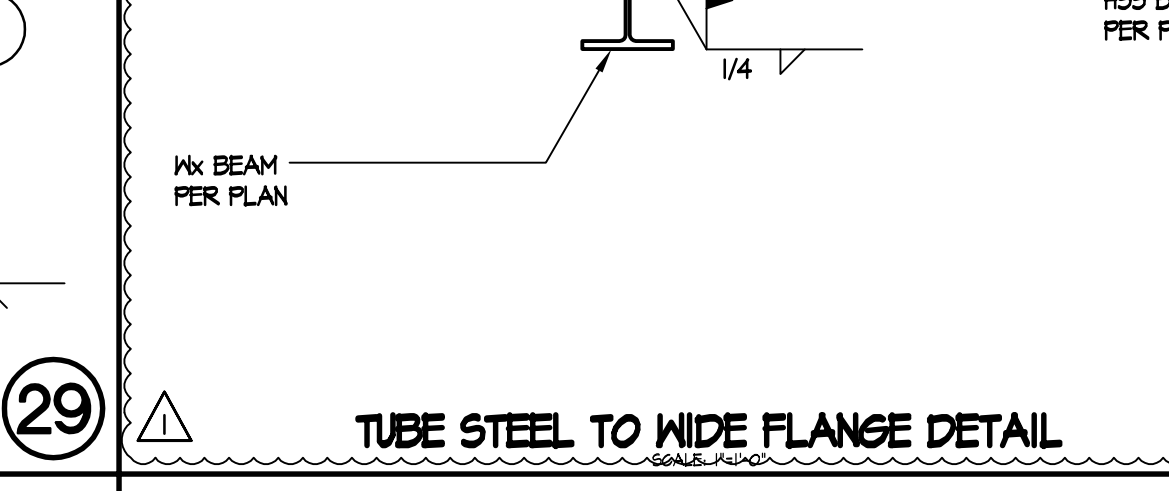
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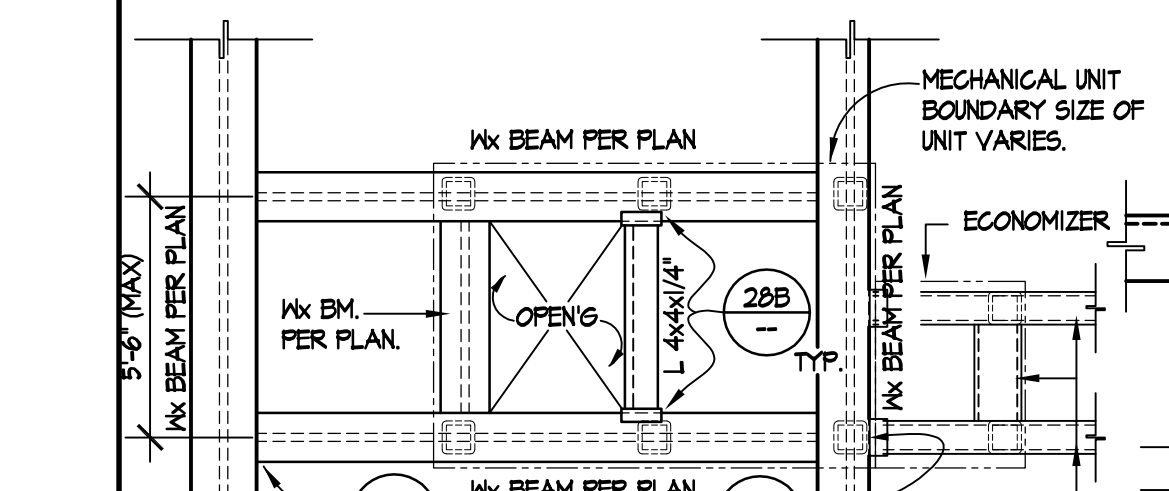
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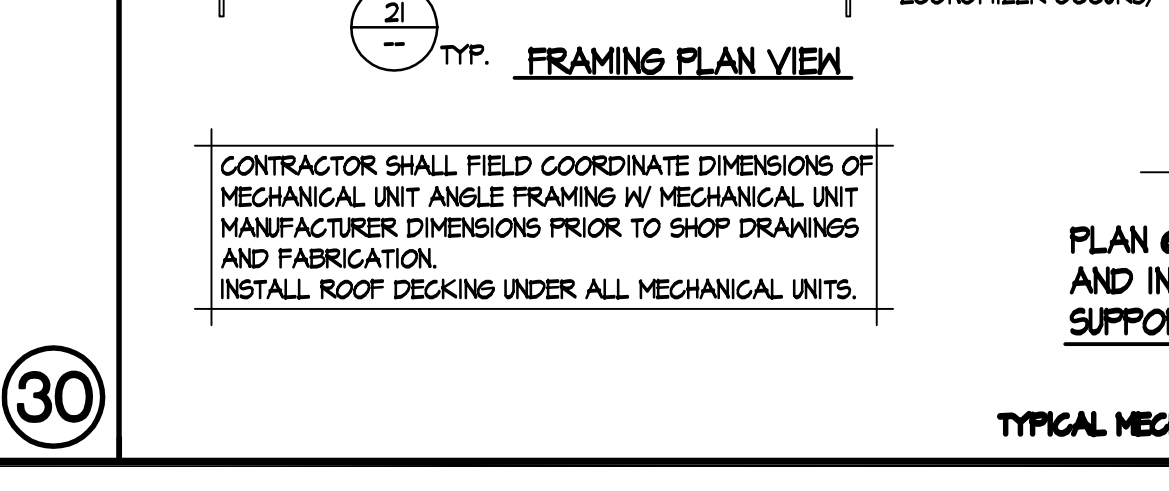
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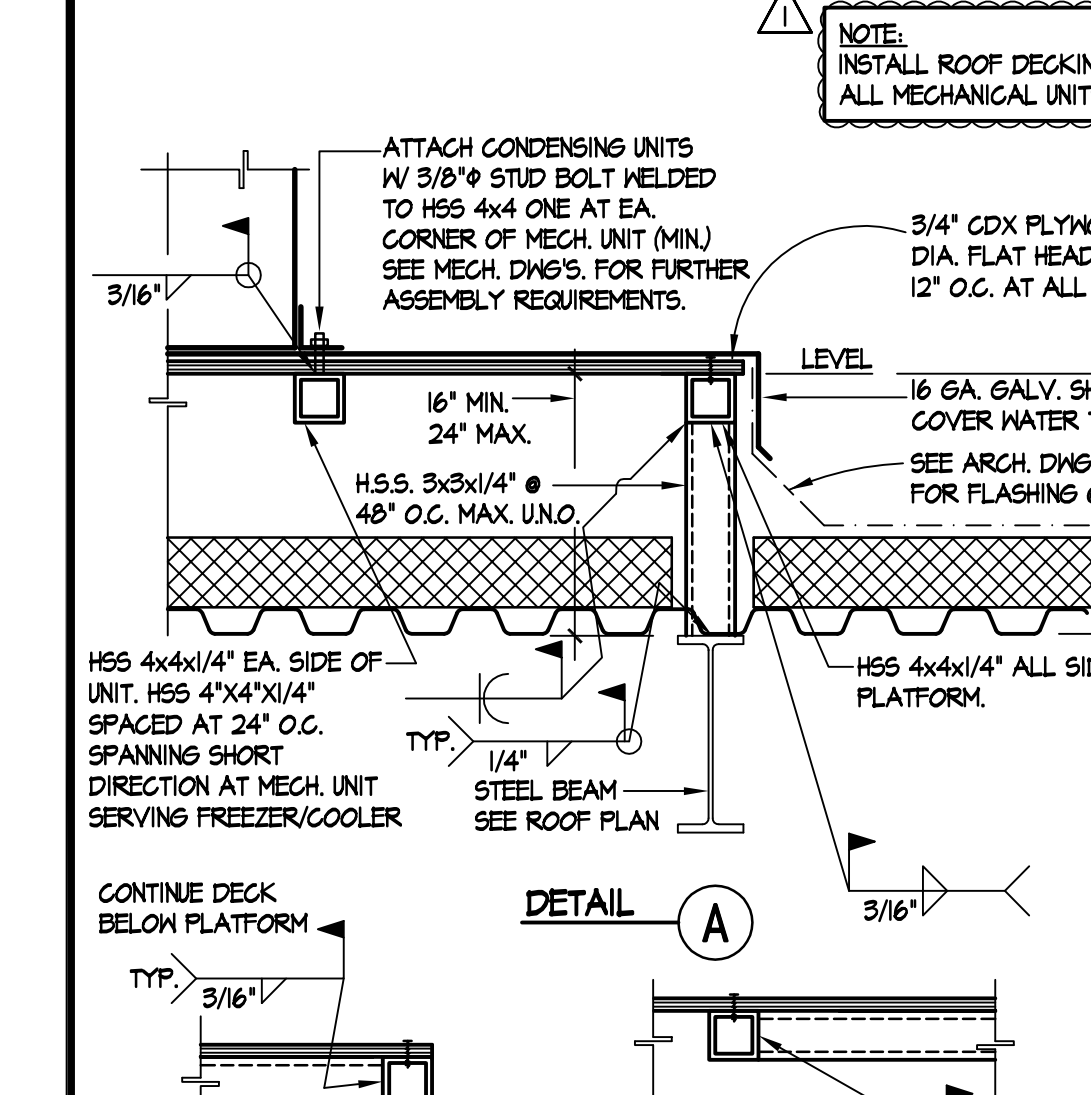
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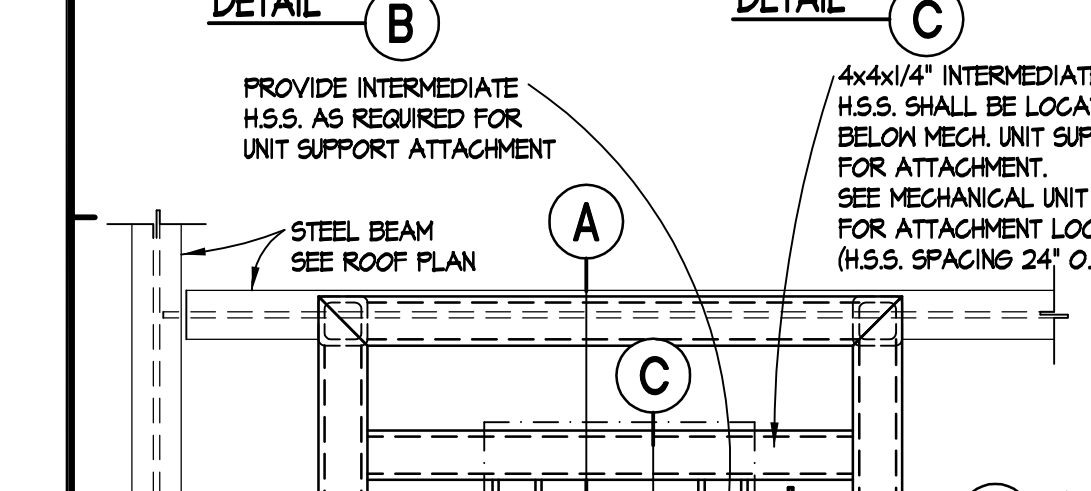
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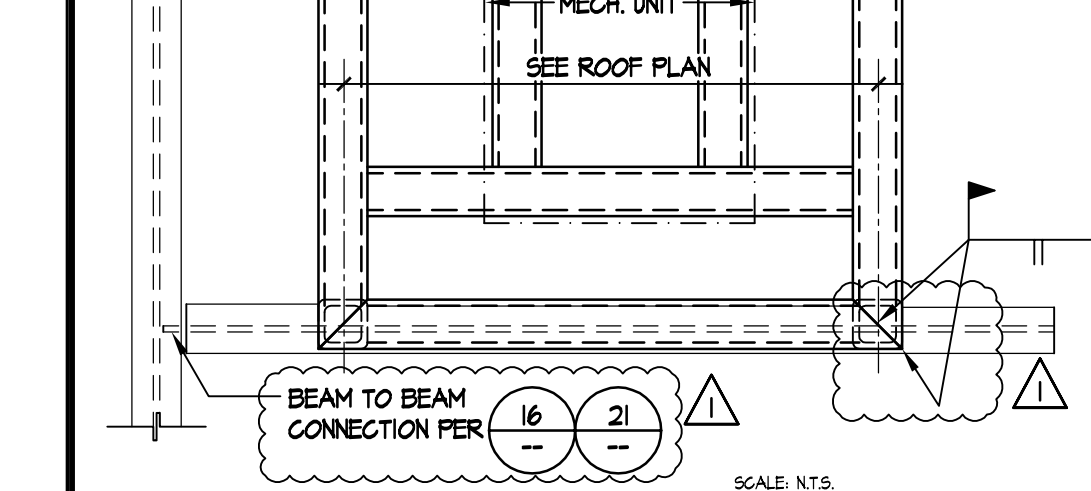
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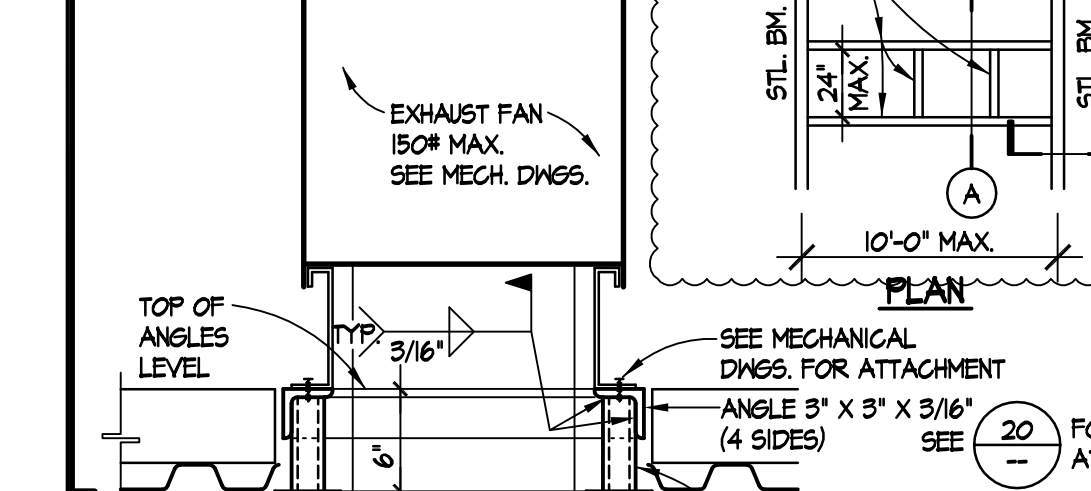
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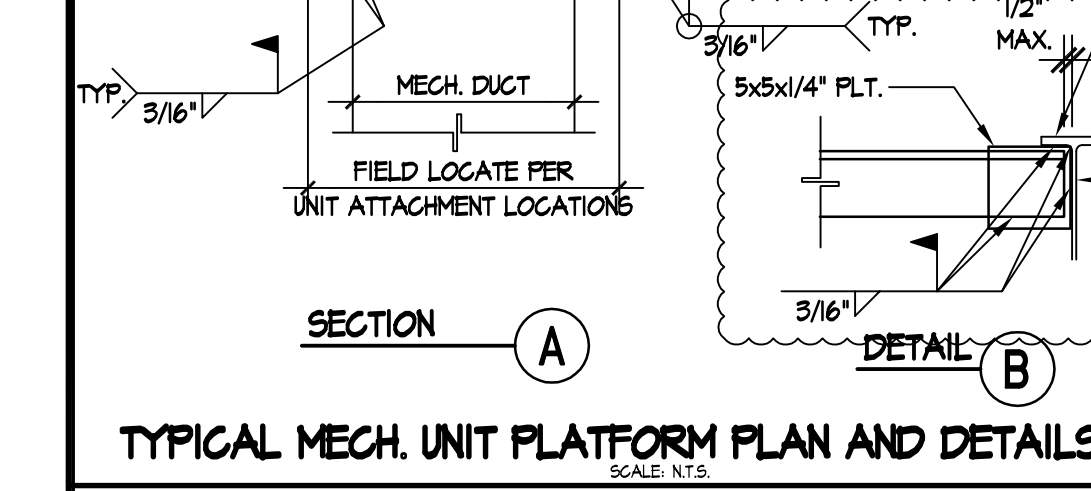
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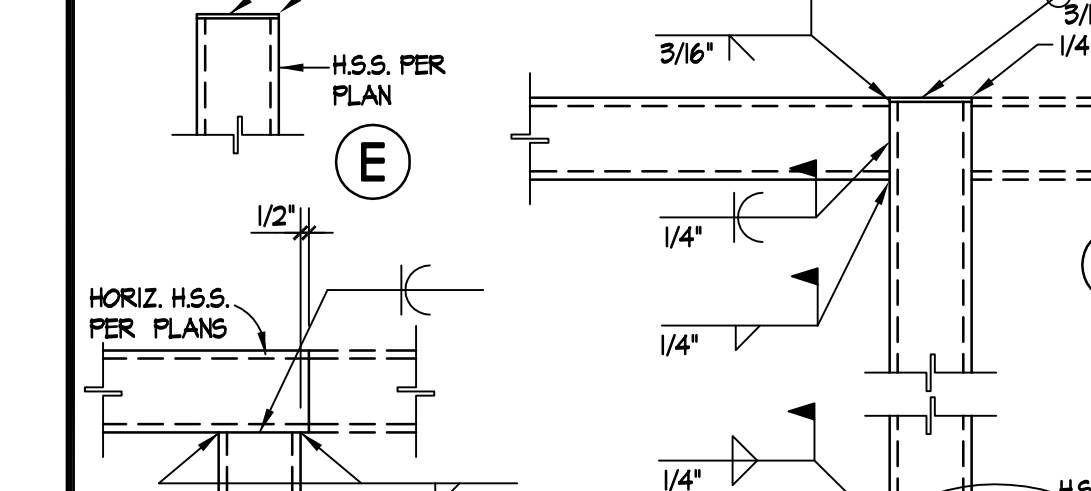
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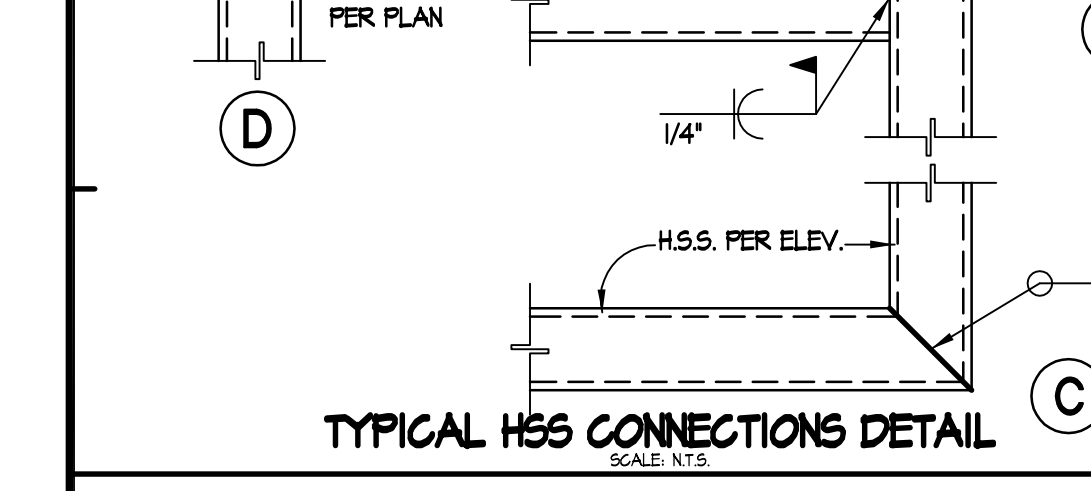
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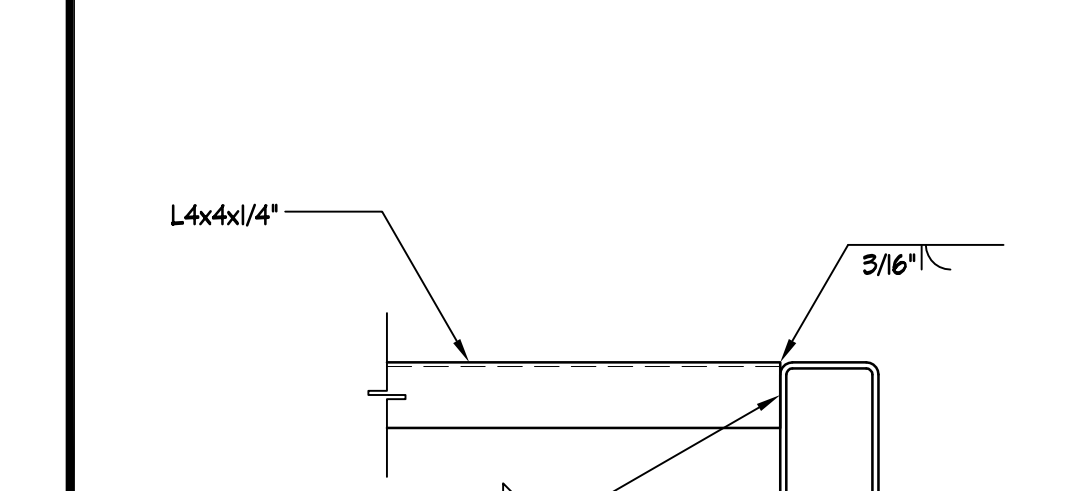
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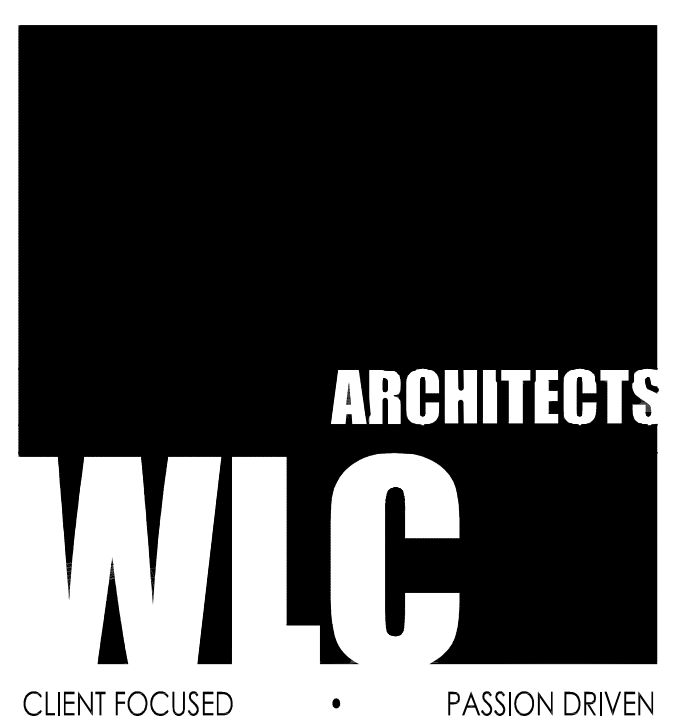
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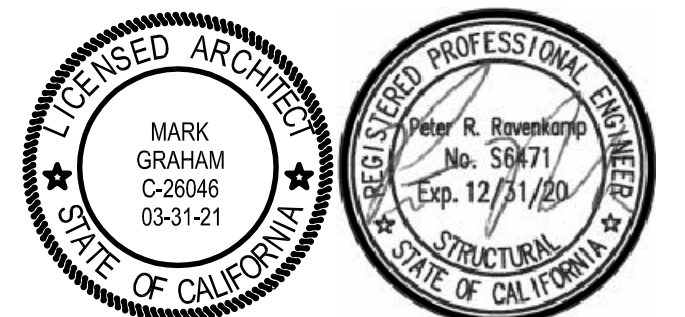


TYPICAL MECH UNIT CURB ATTACHMENT DETAIL 20



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1	8/25/20	JV	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN:	CHECKED:		
DATE: 12/08/2020	SCALE: N.T.S.		
PROJECT NUMBER:	1917000		
DETAILS			
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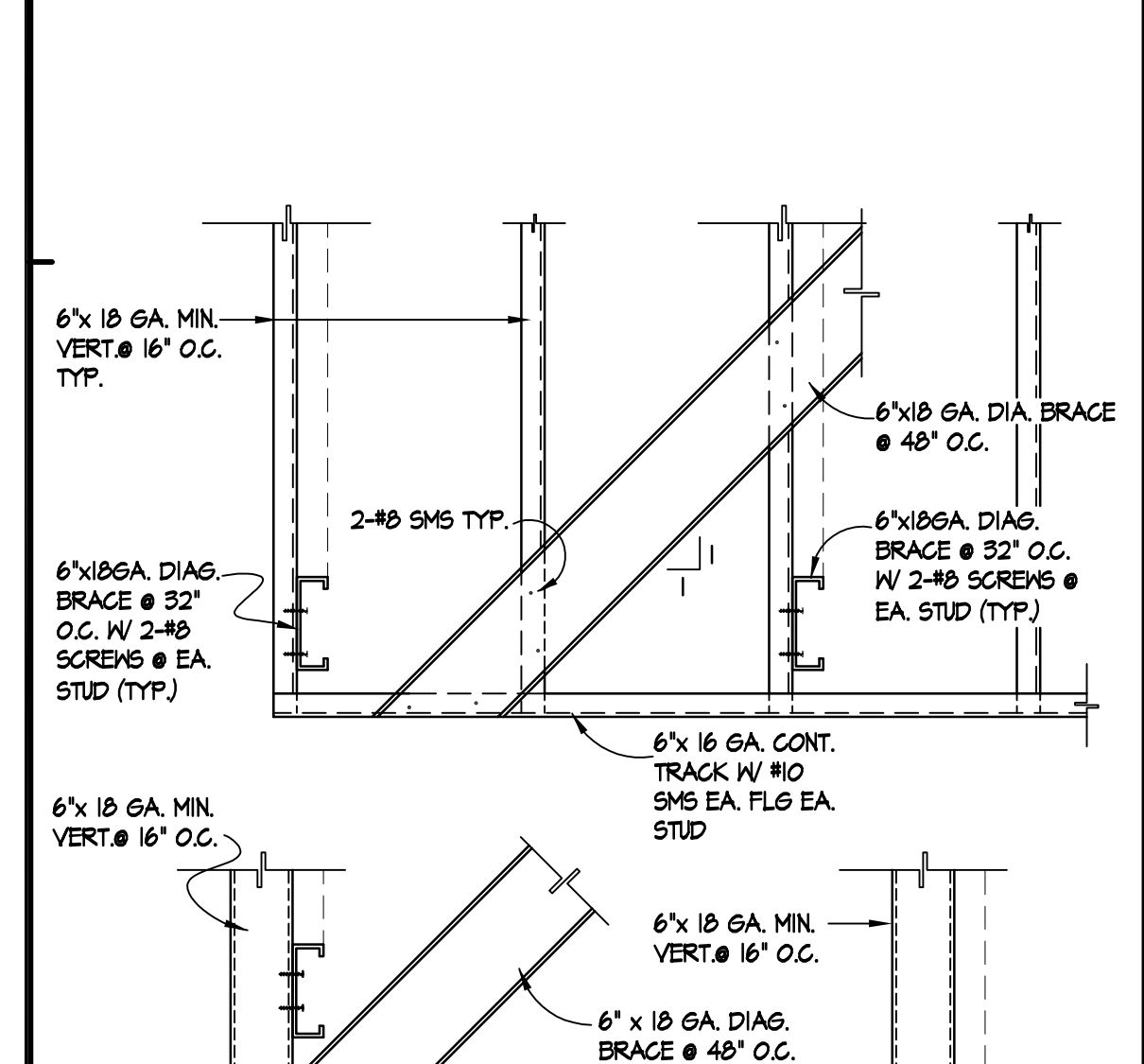
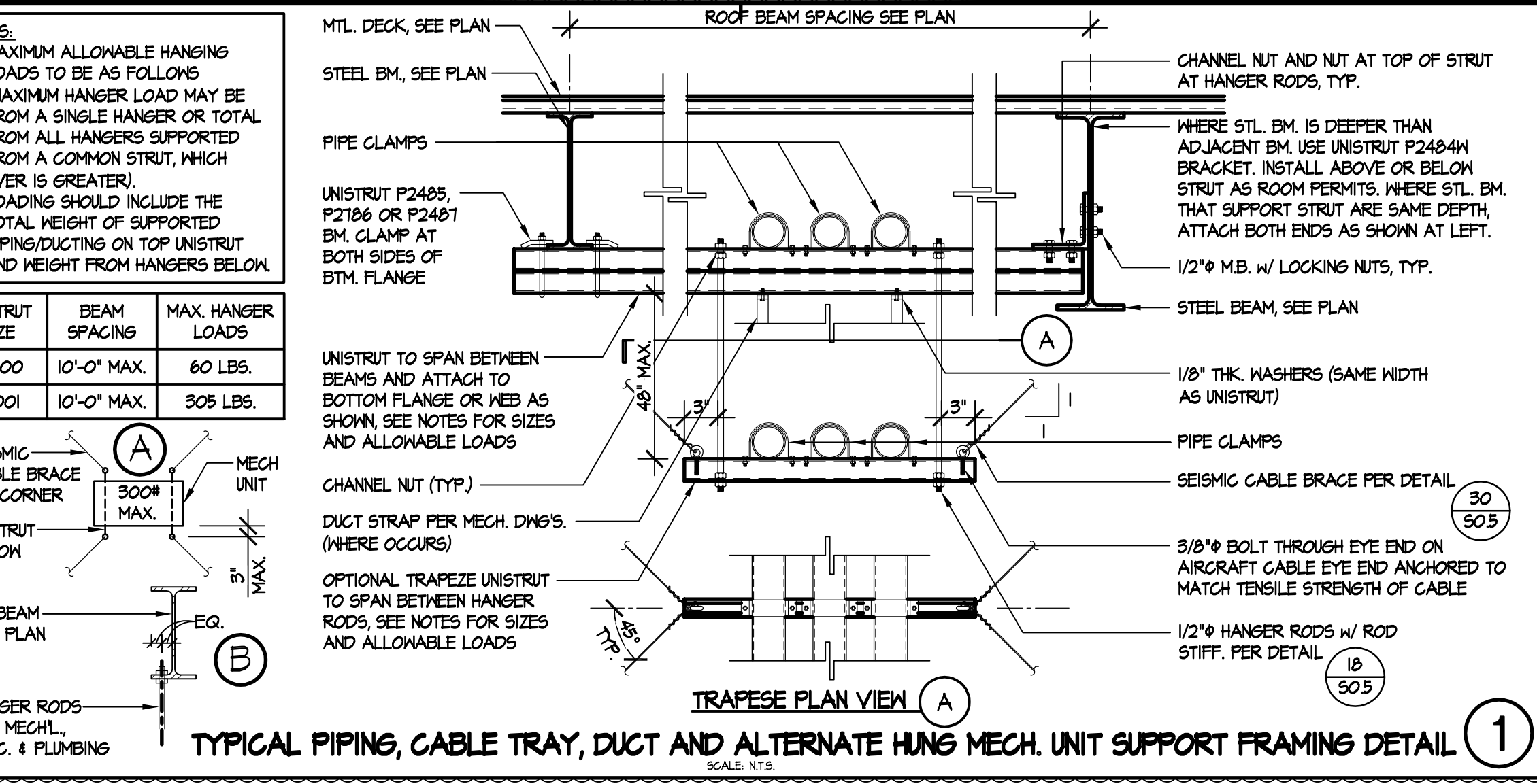
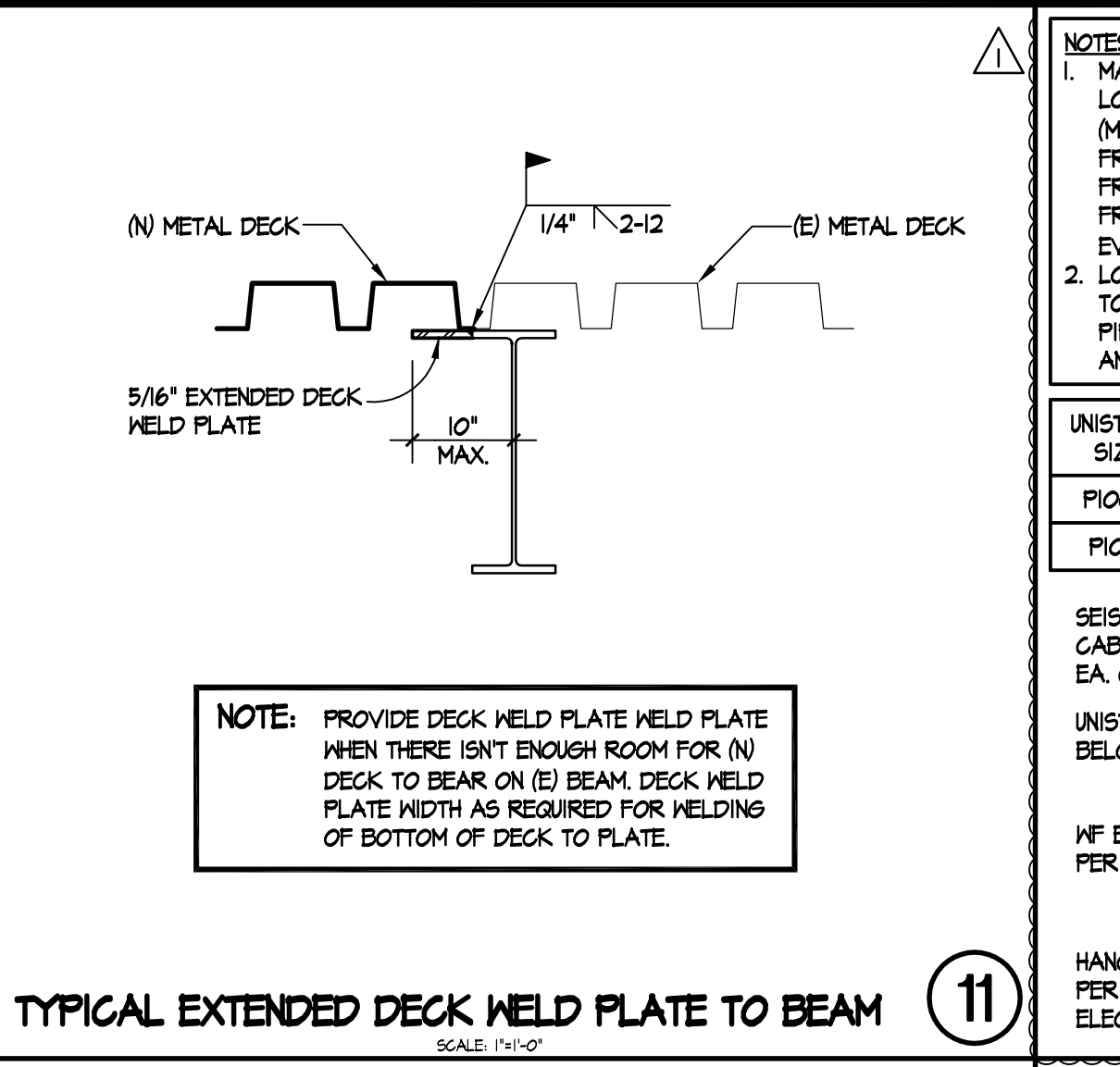
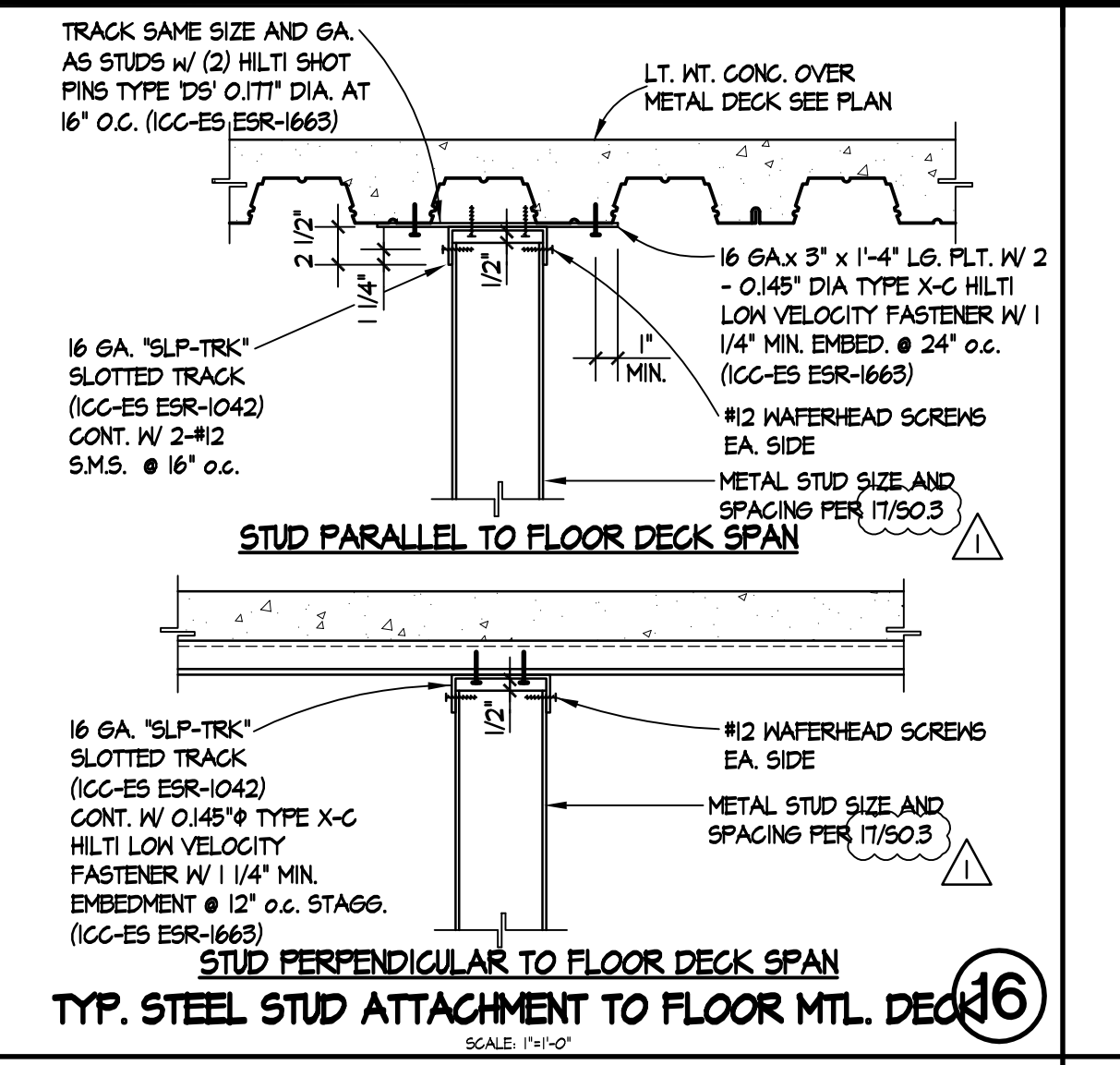
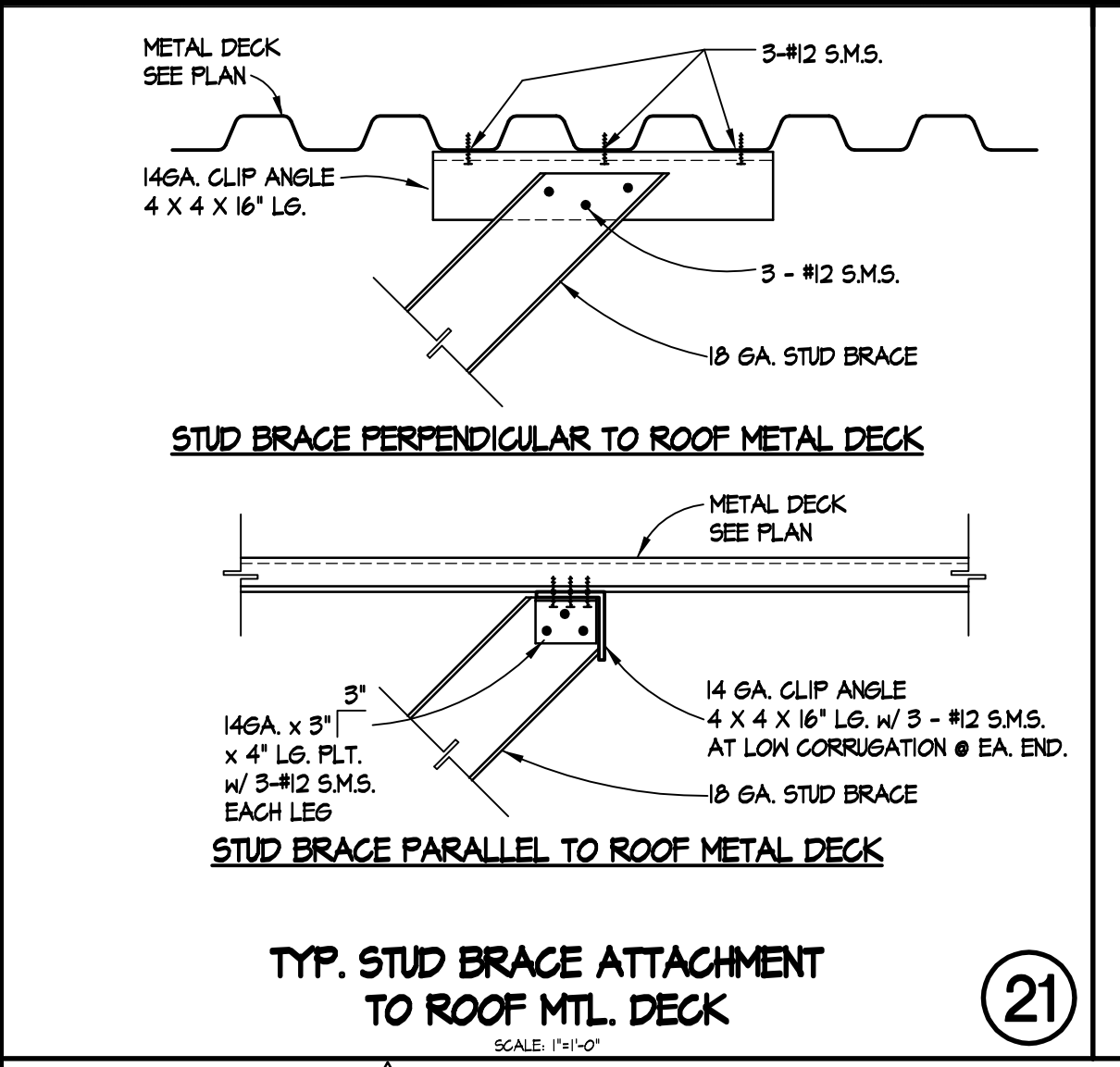
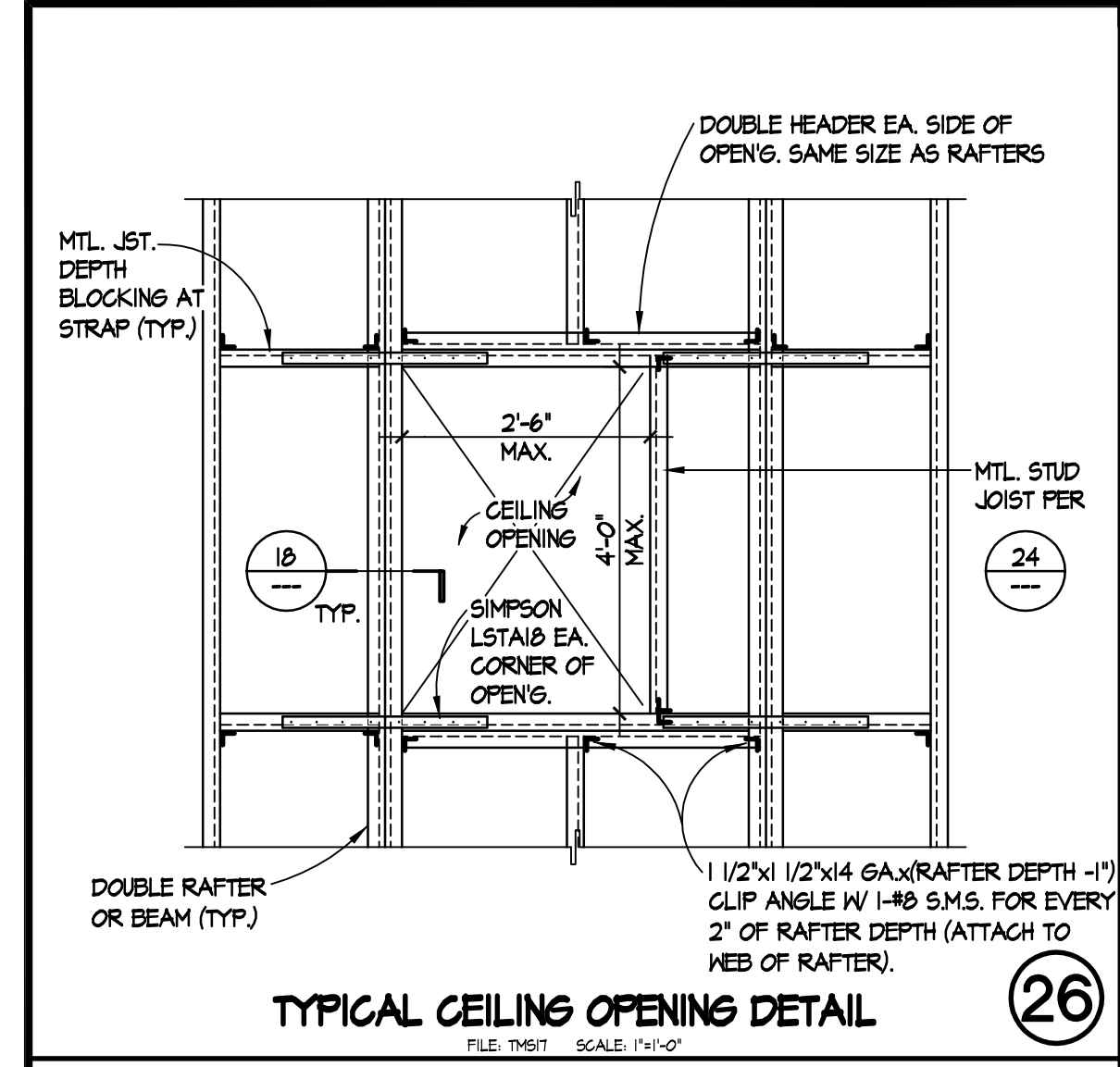
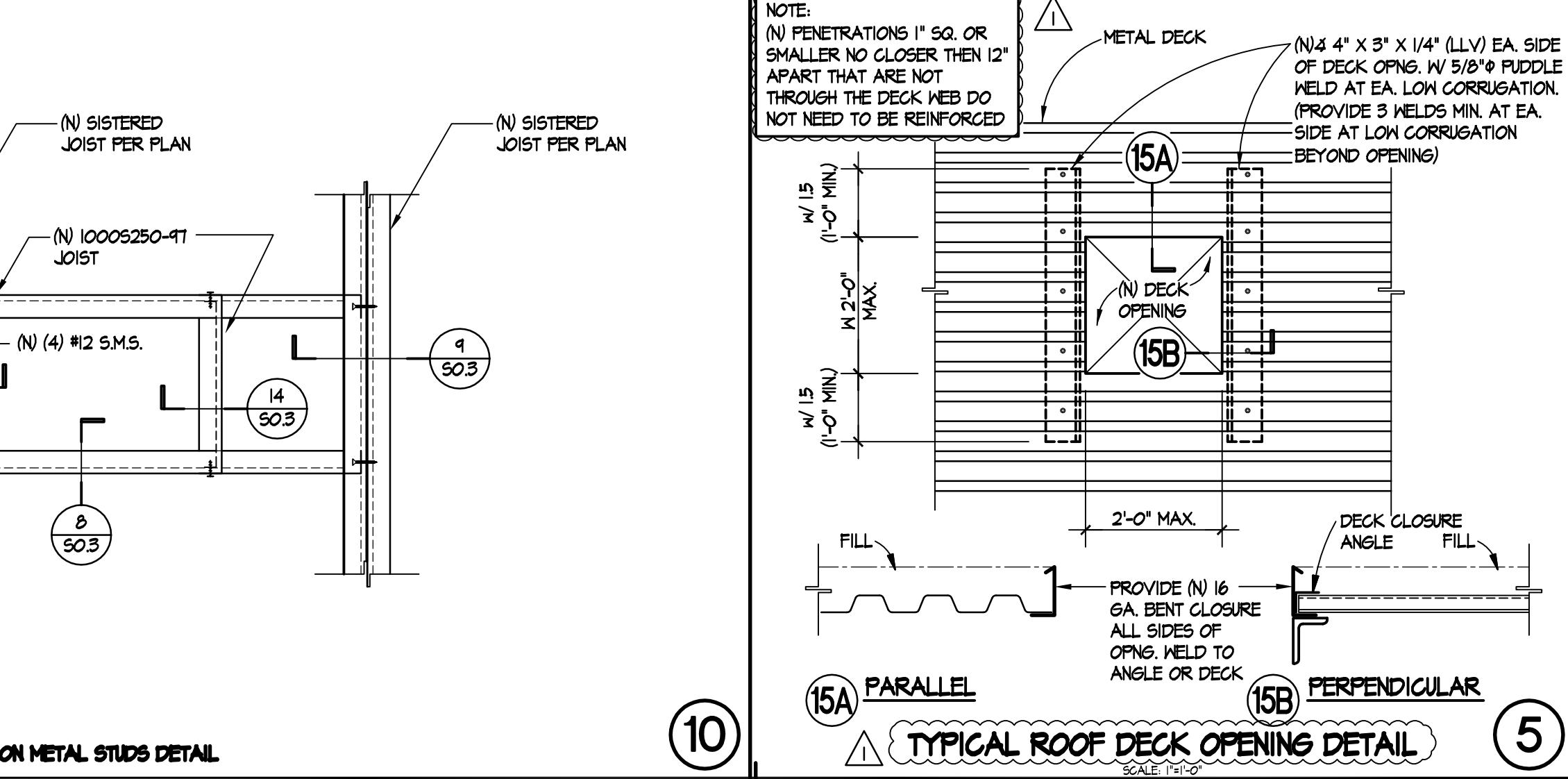
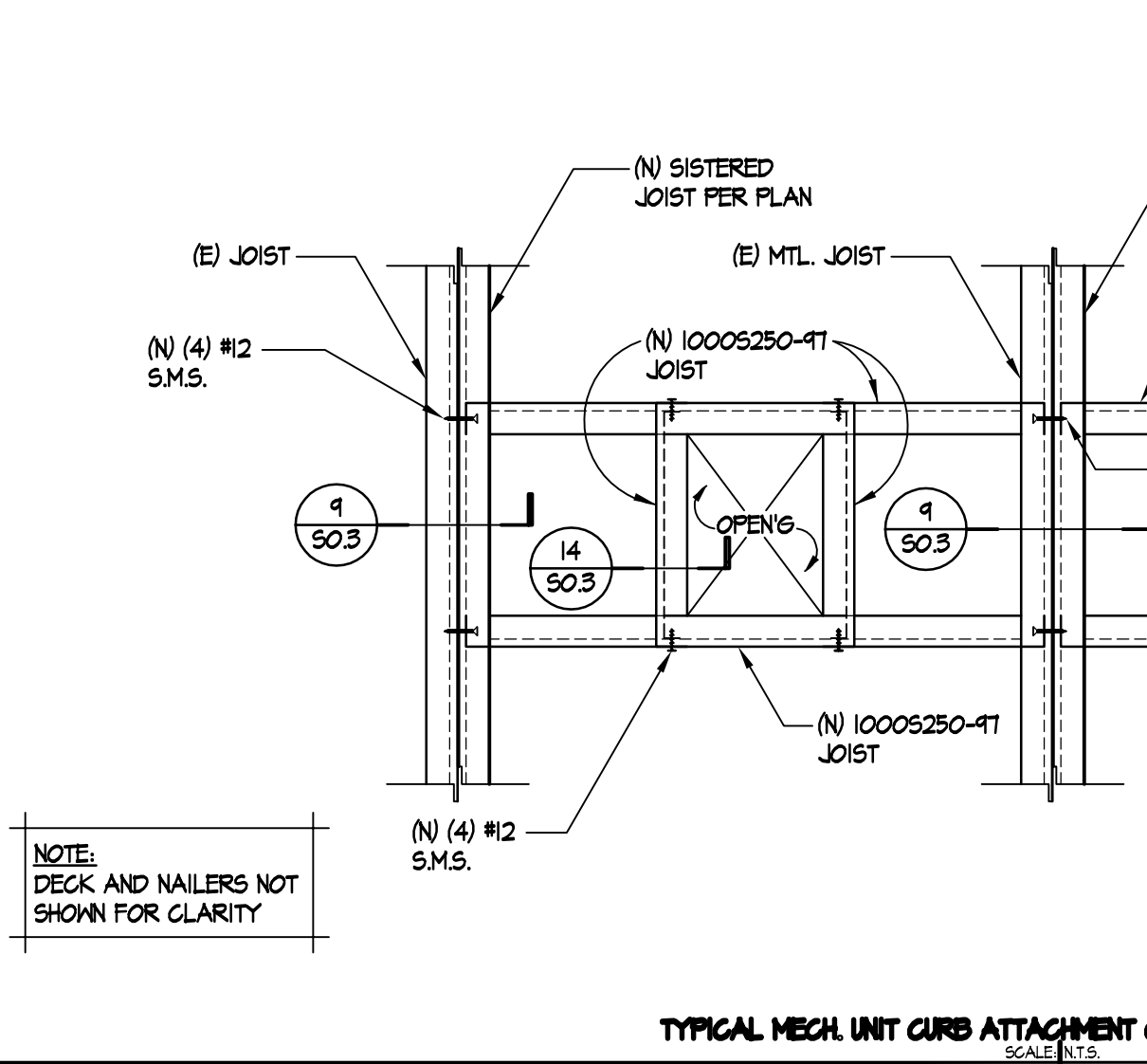
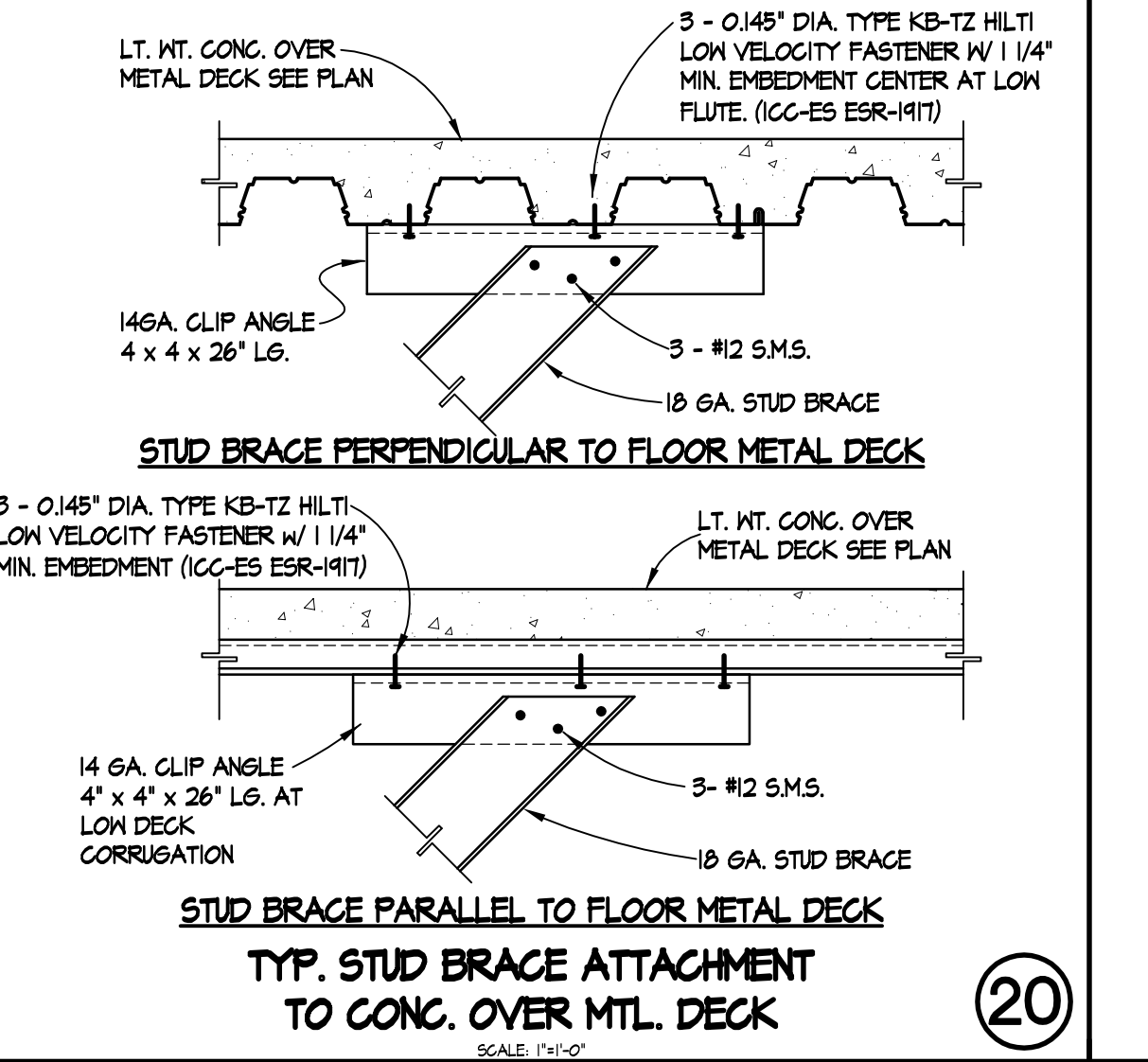
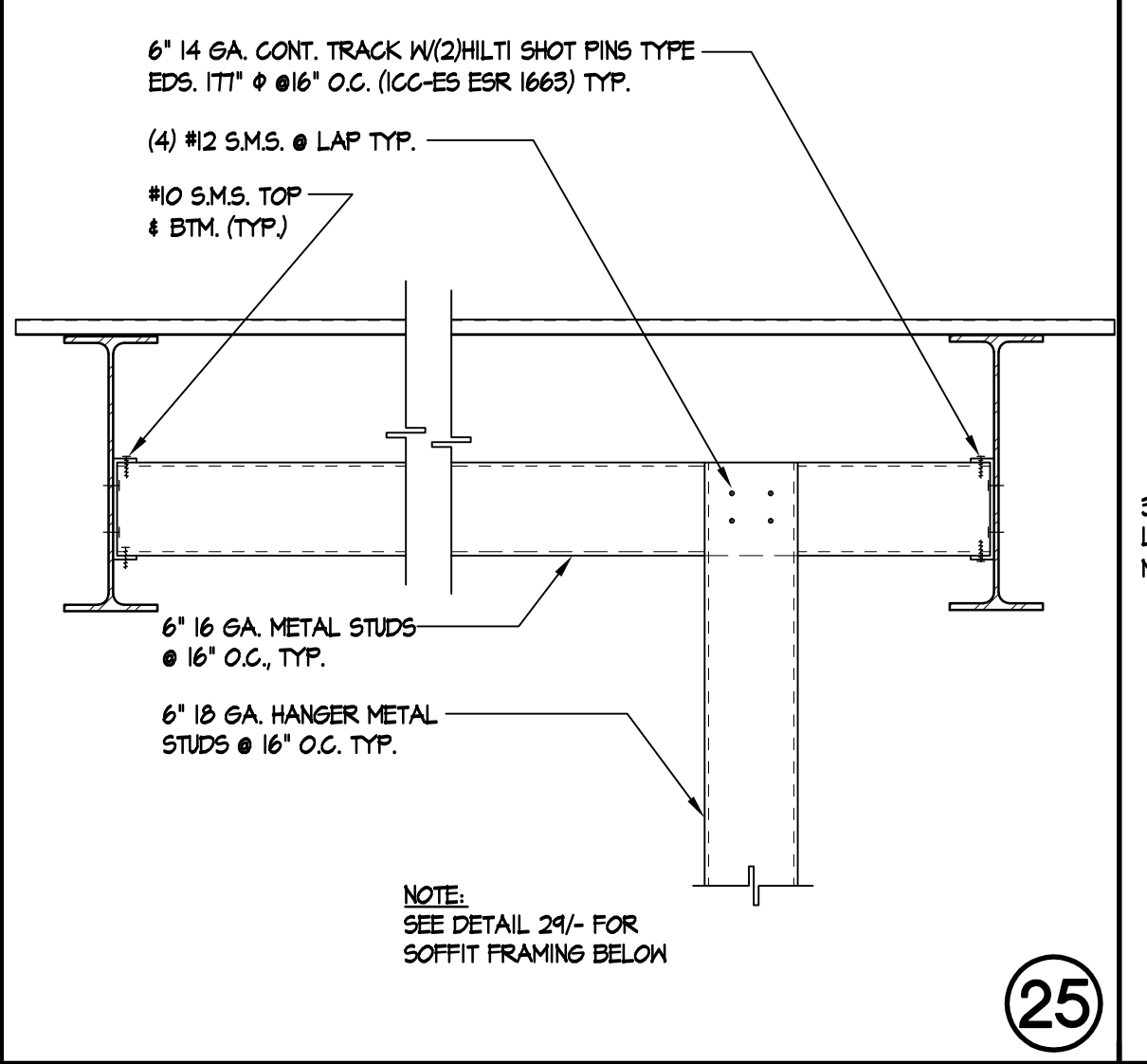
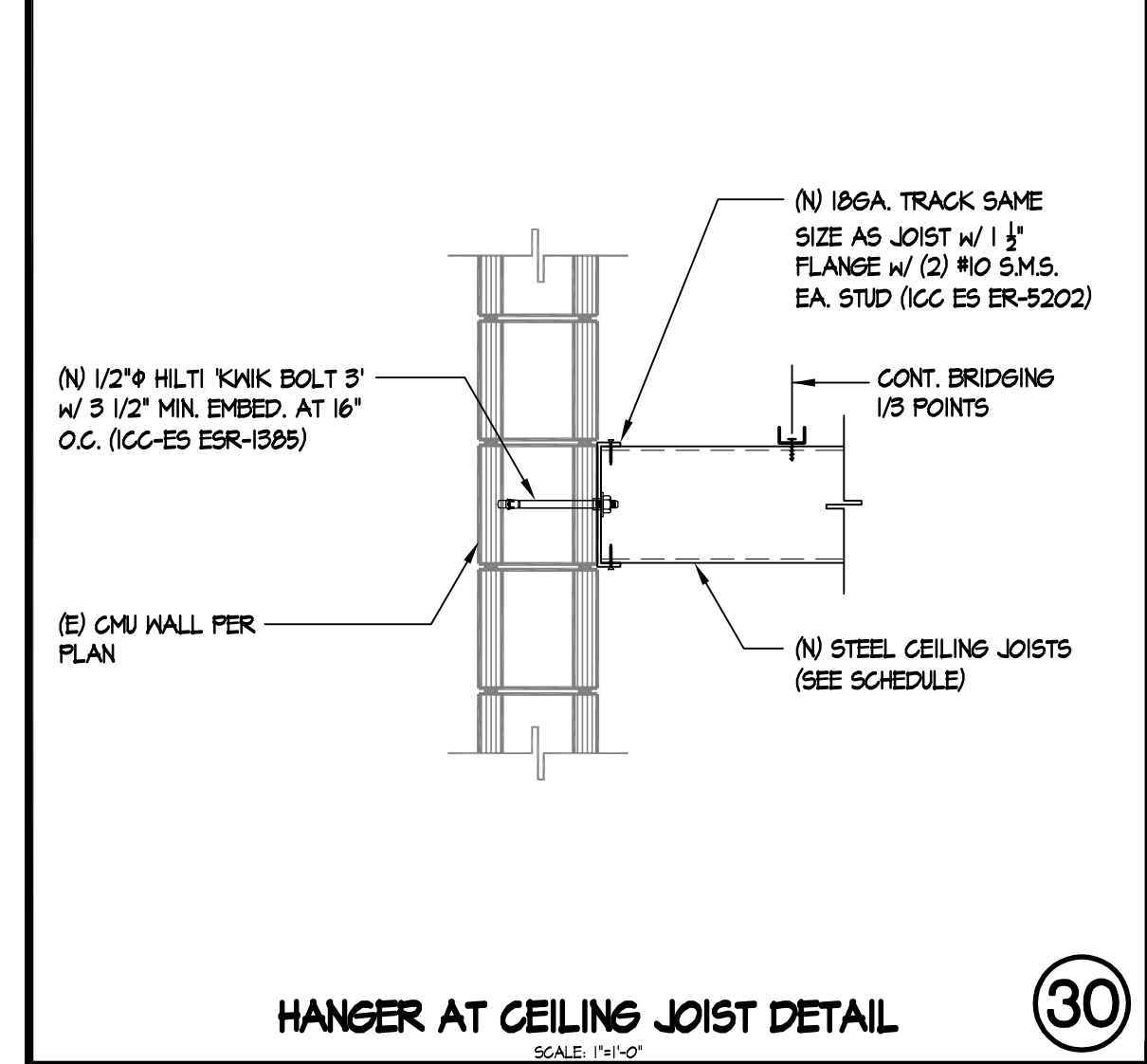
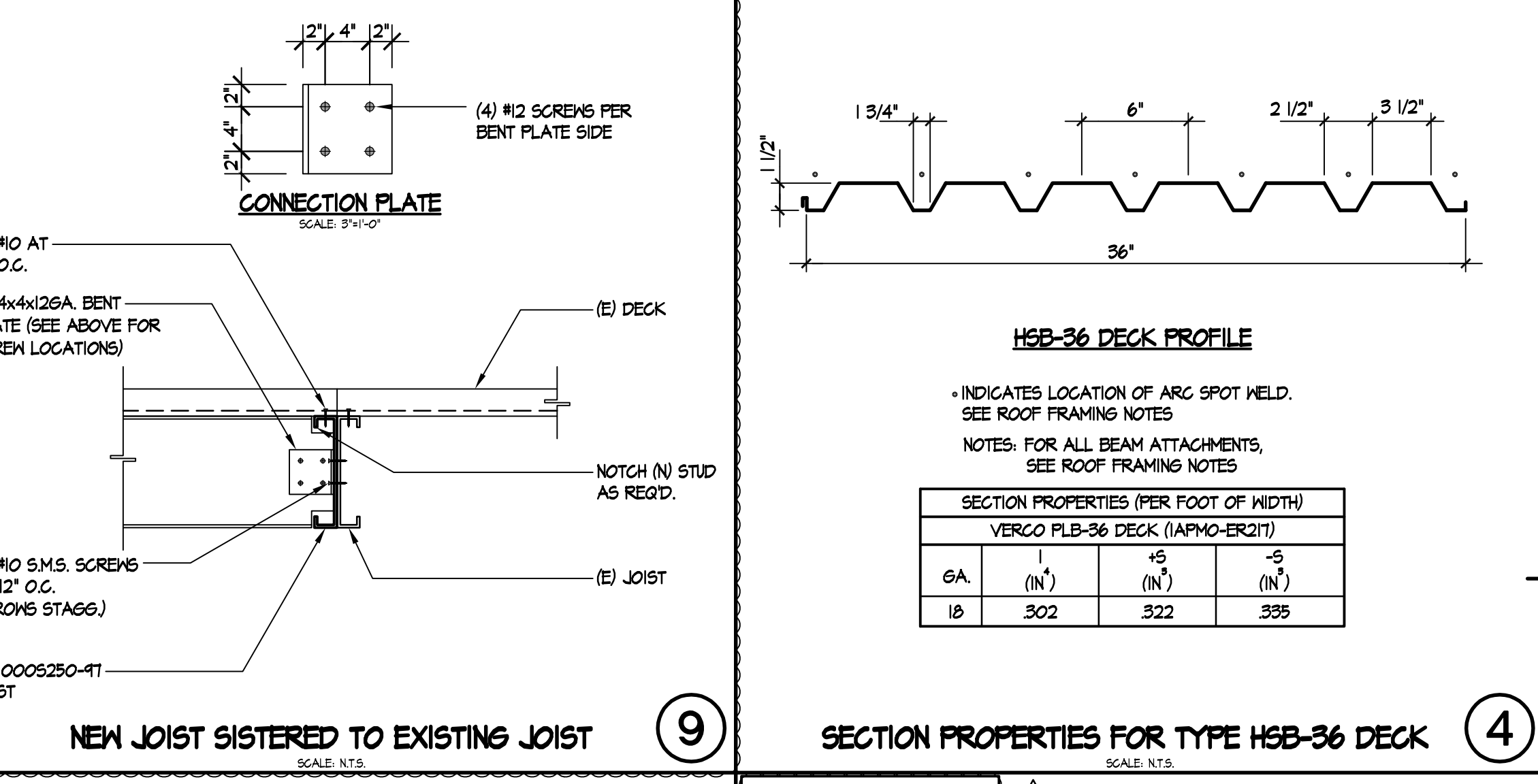
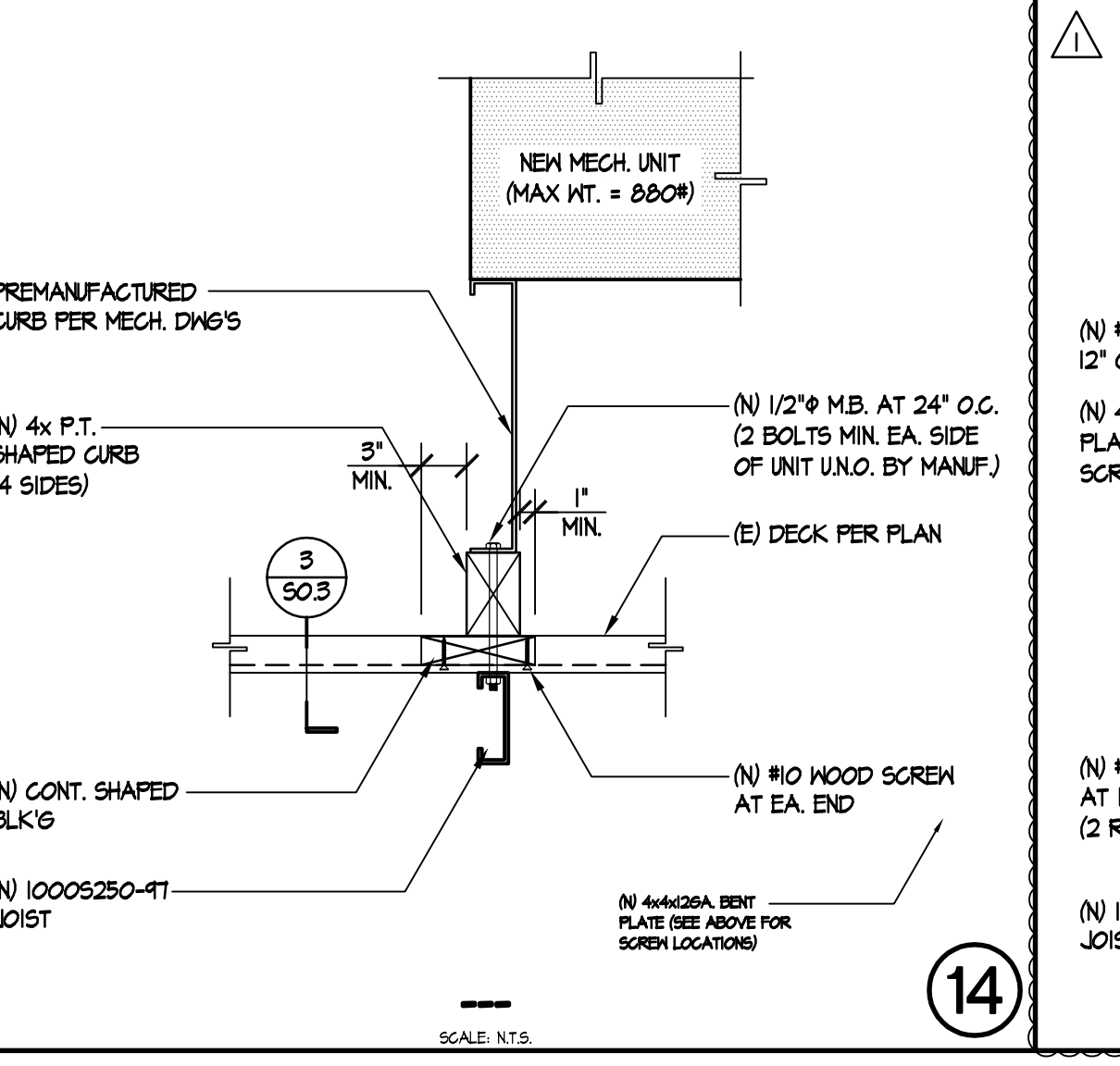
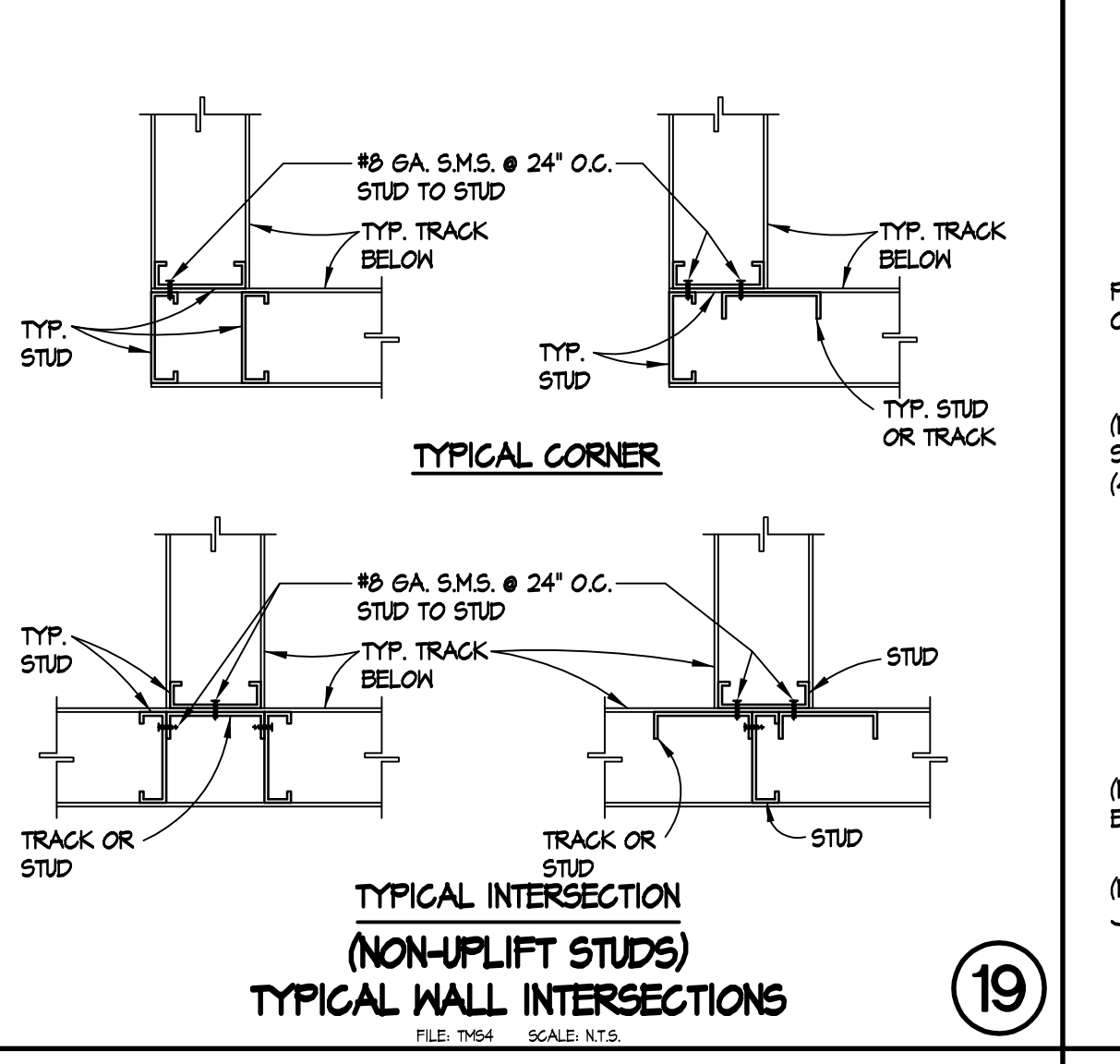
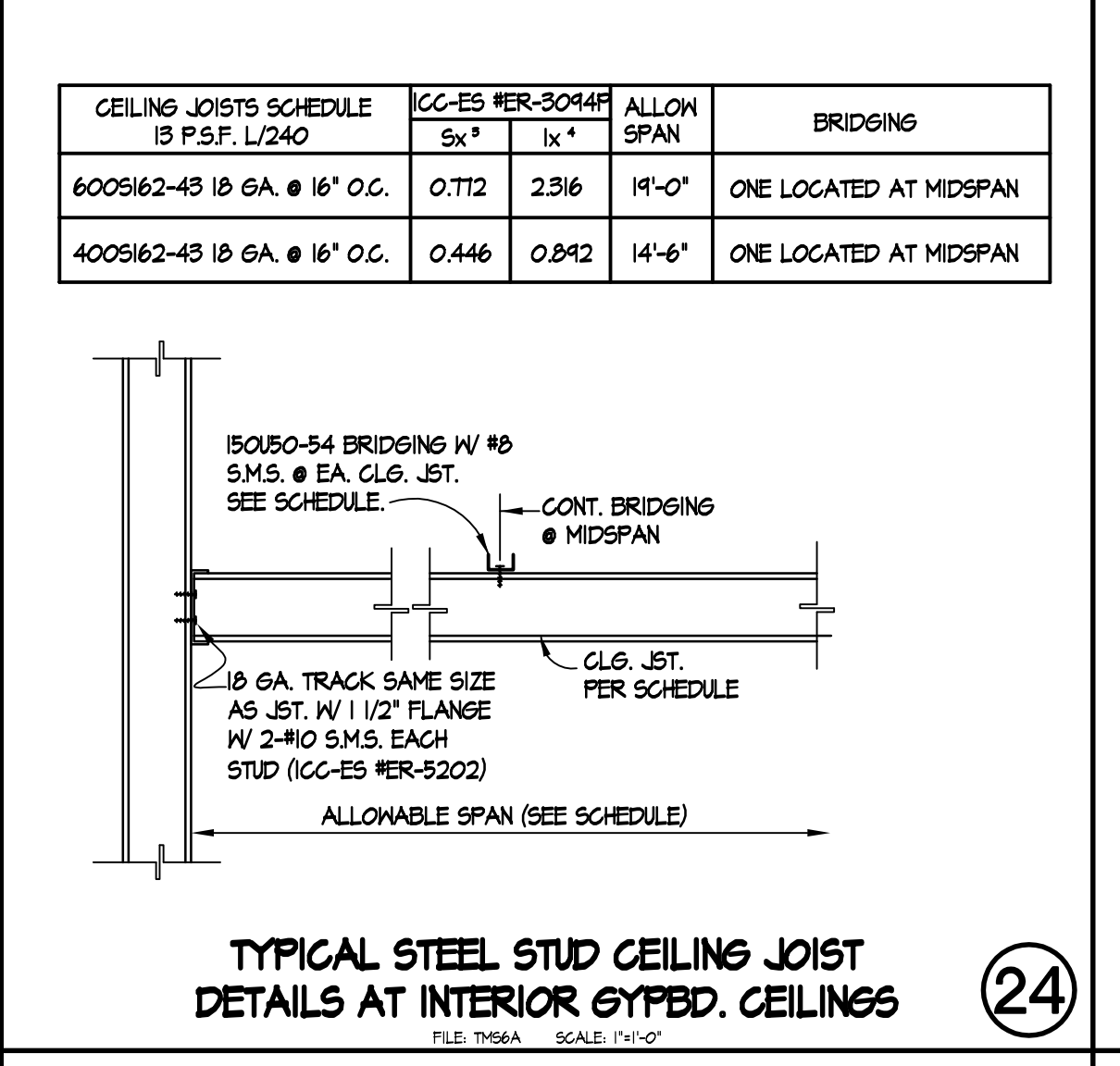
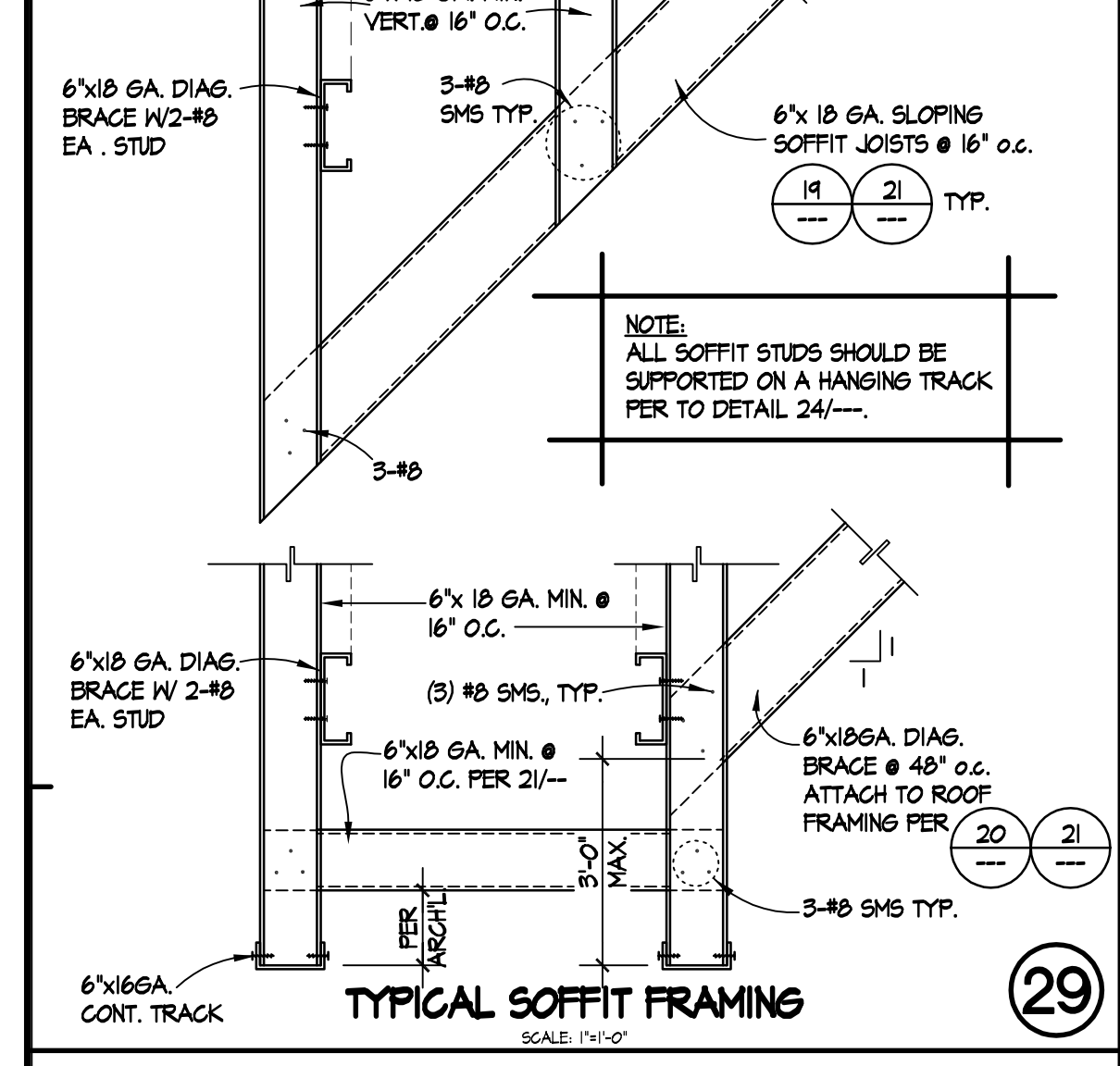
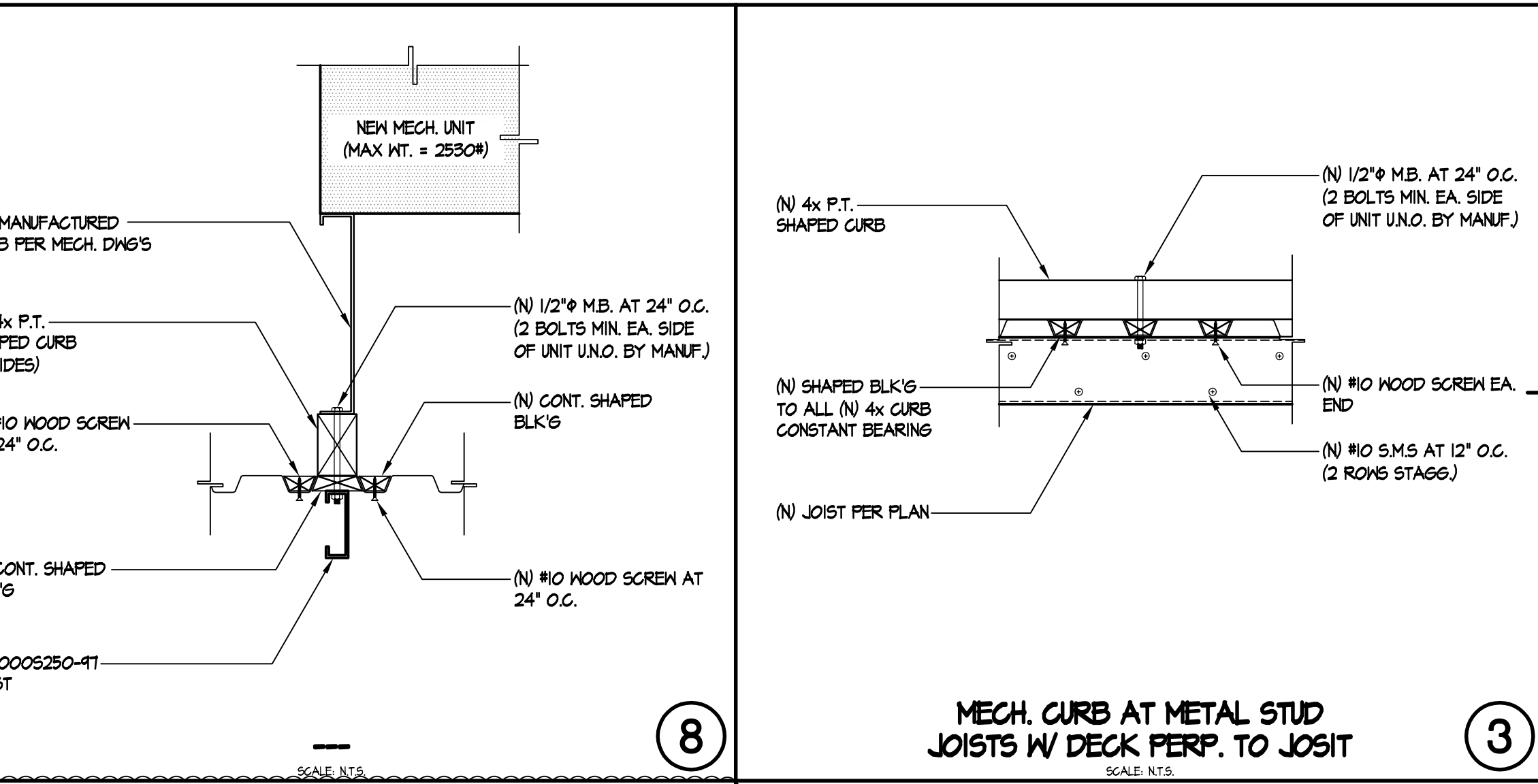
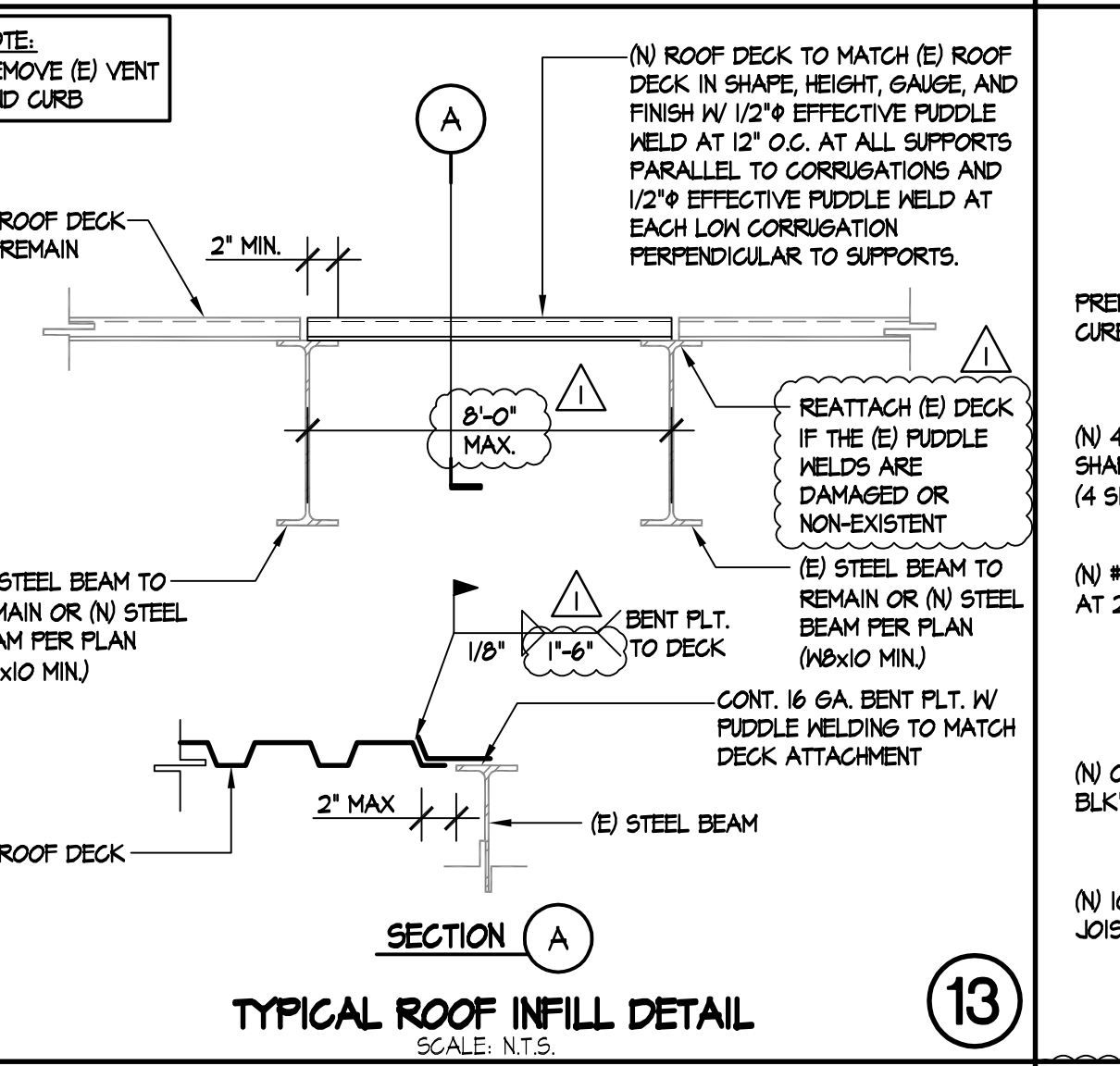
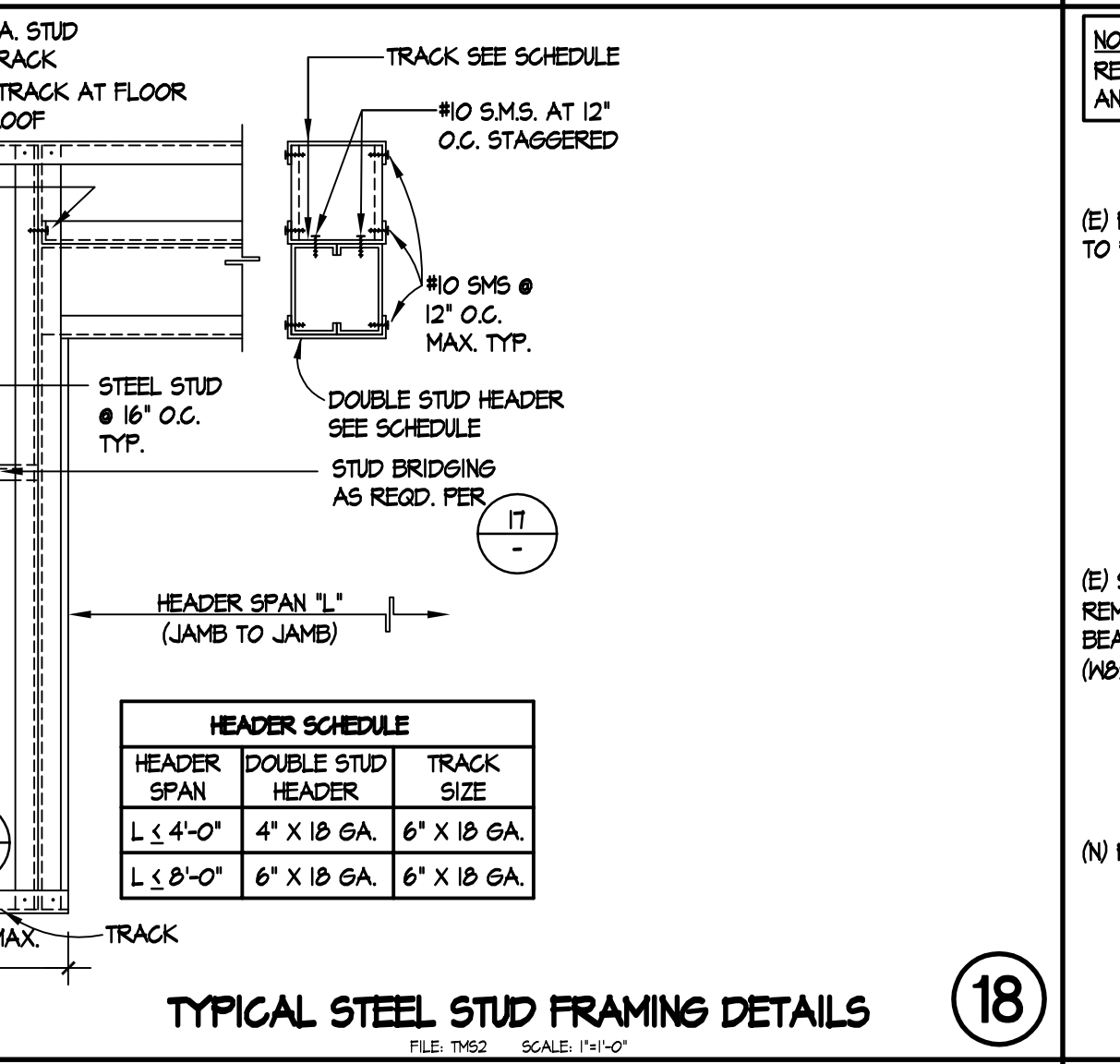
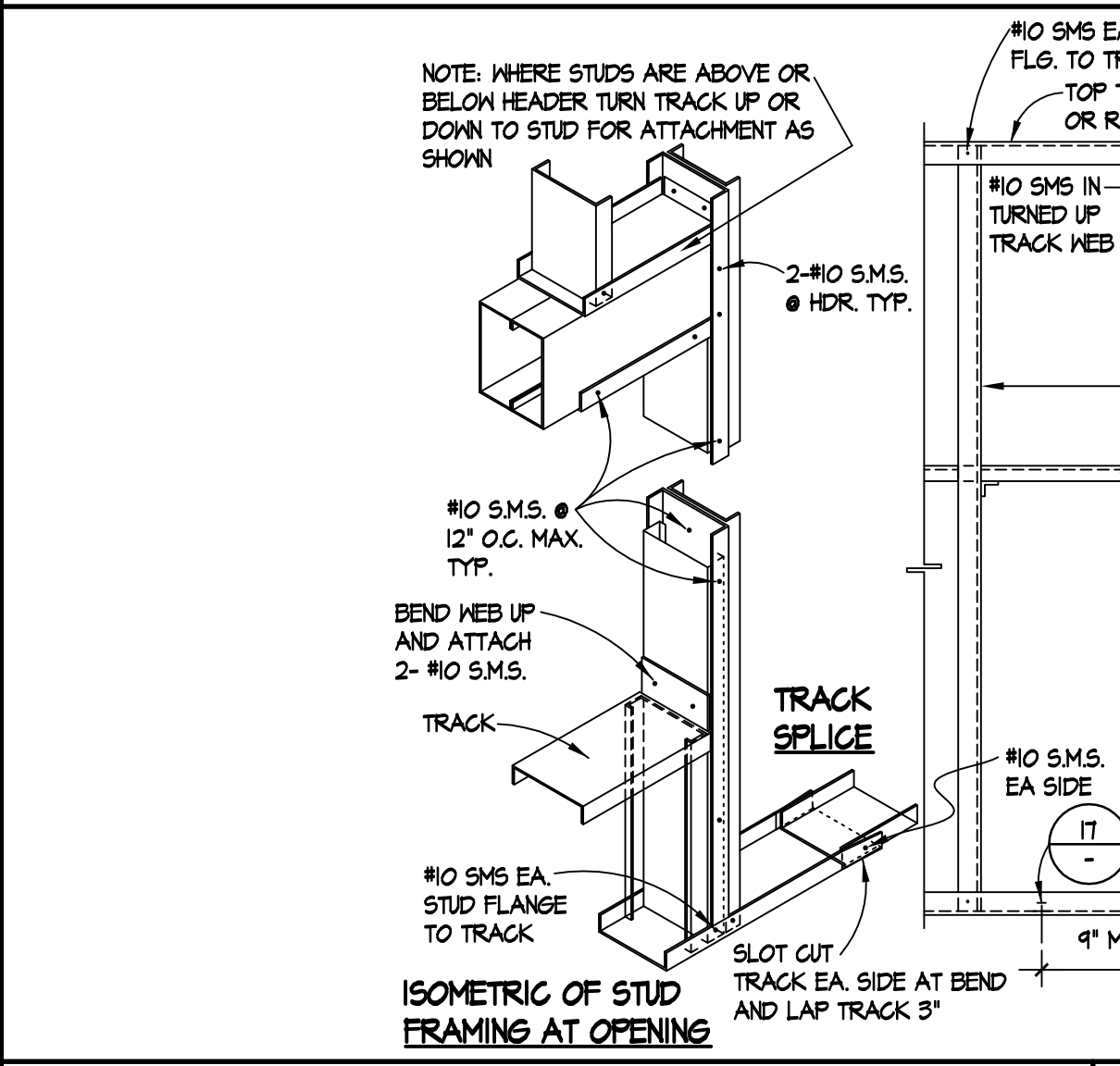
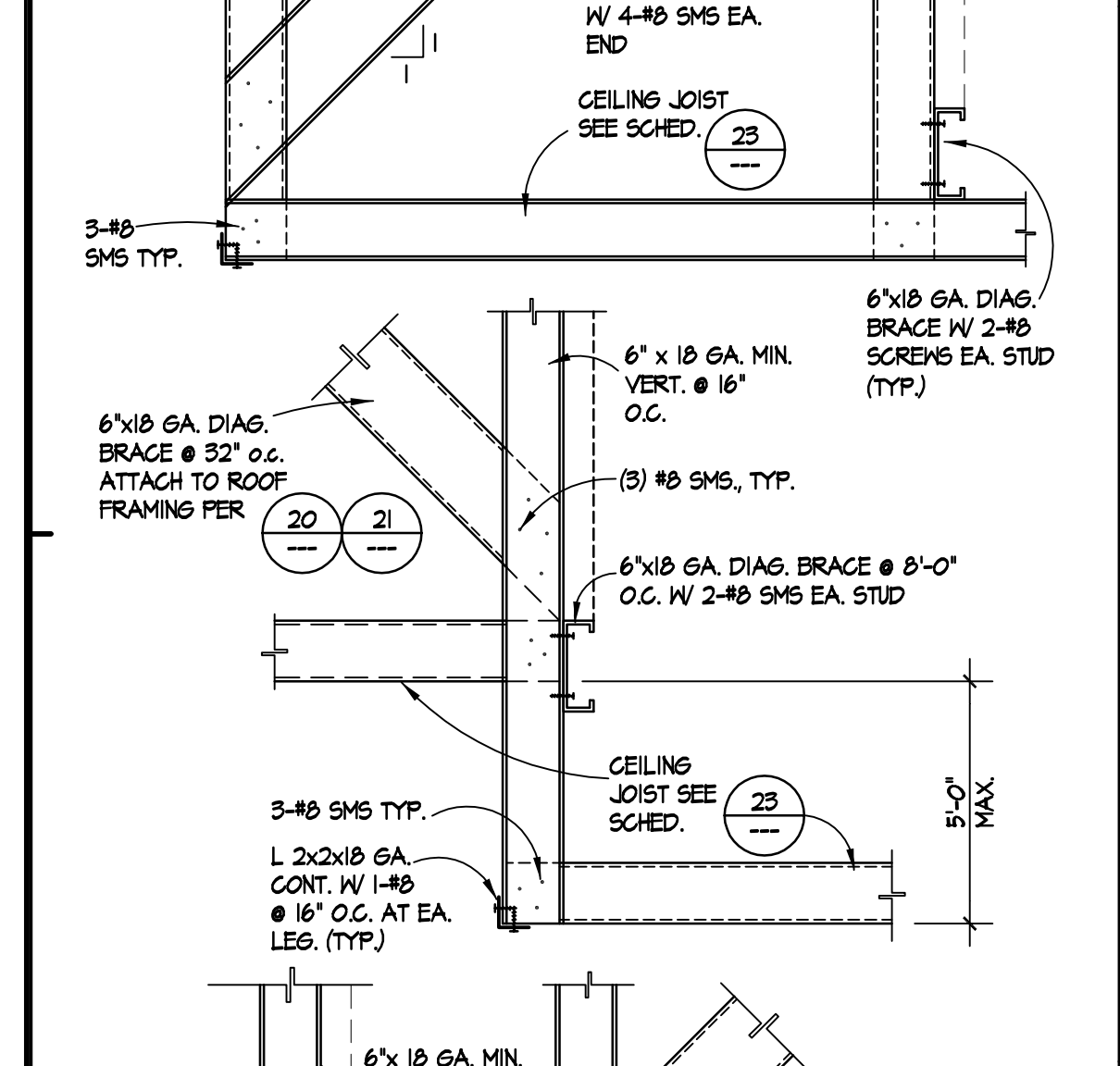
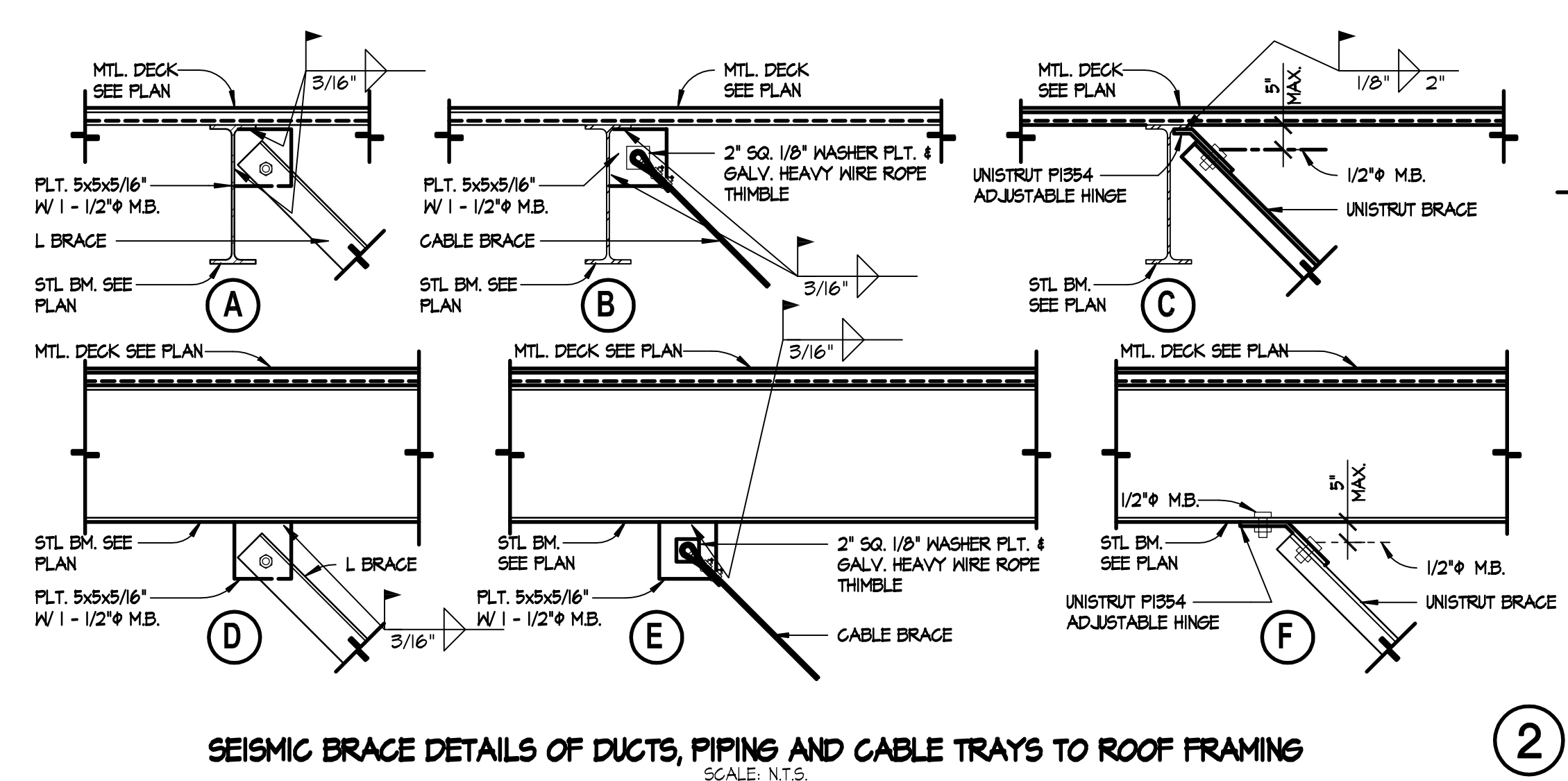
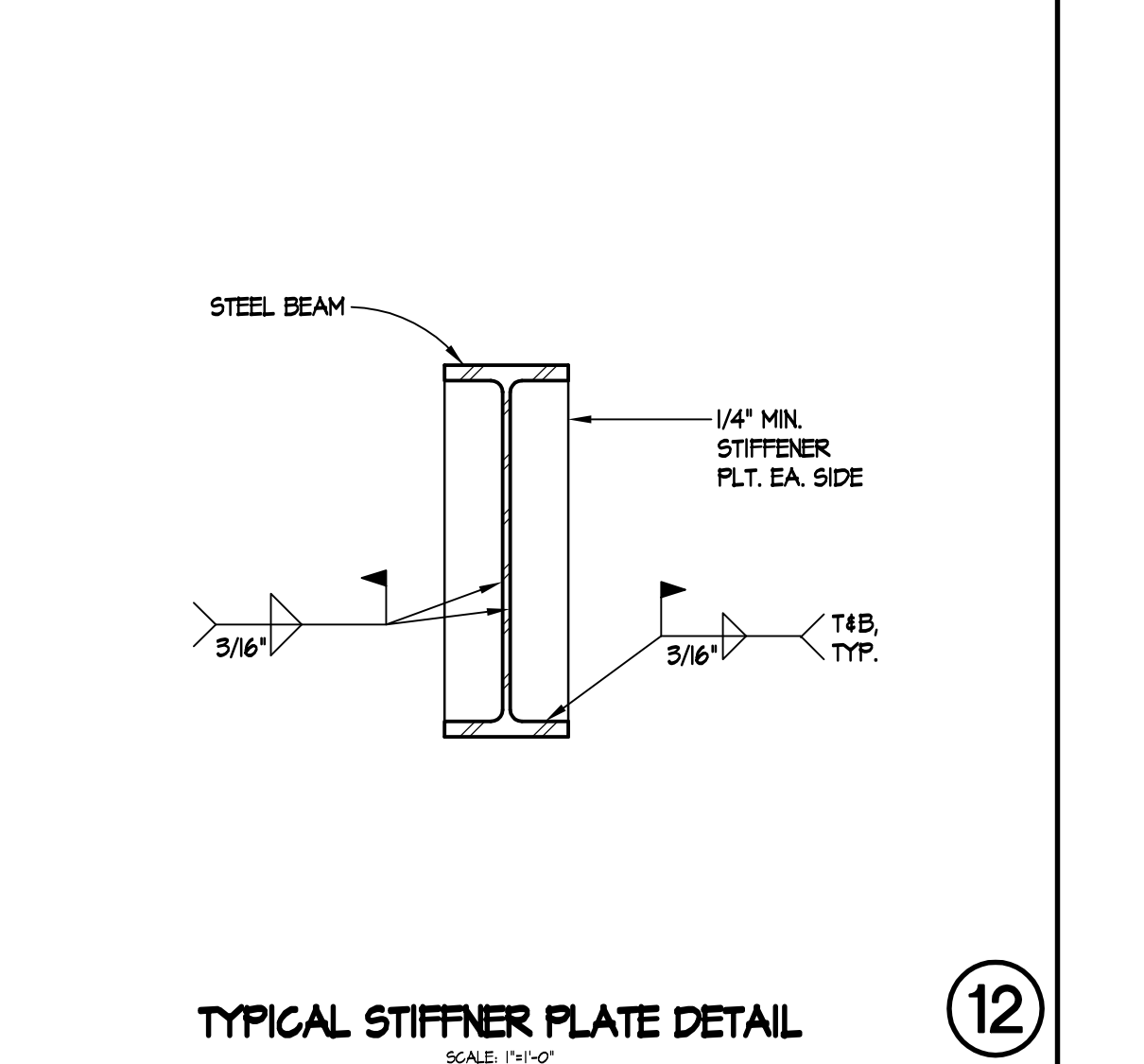
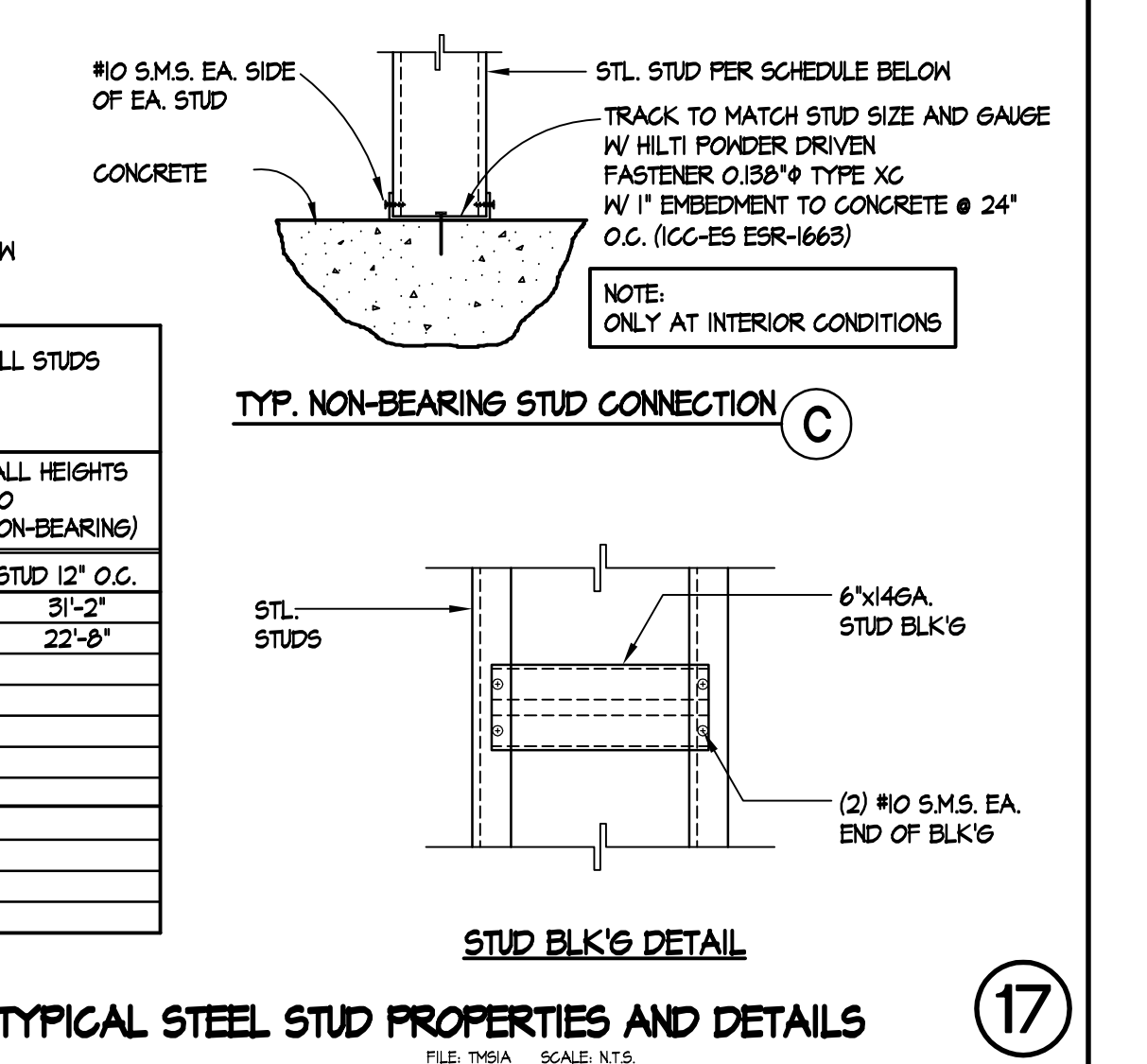


Diagram 25: TYP. STUD BRACE ATTACHMENT TO CONC. OVER METL. DECK. Shows a stud brace attachment to a concrete slab over a metal deck with a 1/4\"/>

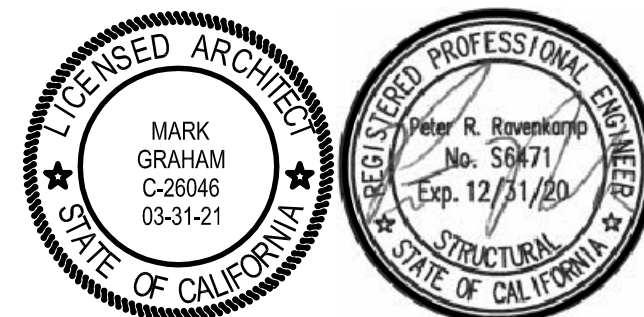




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JOB NO.: 201907

NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1
REVISIONS			

DRAWN: _____ CHECKED: _____
DATE: 12/08/2020 SCALE: N.T.S.
PROJECT NUMBER: 1917000

**BUILDING A
ROOF FRAMING
DEMO PLAN**

DRAWING NUMBER: **S2.1**

ROOF FRAMING DEMO NOTES

- 1/2" DEEP 18 GA. VERCO HB-36 GALV. STL. DECK W/ 5/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1/2" LONG @ 12" O.C.
- NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
- INTERIOR NON-BEARING STD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
- BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL 15/50.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.

REMOVE (E) METAL DECK PER ROOF NOTE #1

REMOVE (E) METAL DECK PER ROOF NOTE #6

REMOVE (E) METAL DECK PER ROOF NOTE #7

REMOVE (E) METAL DECK PER ROOF NOTE #8

REMOVE (E) METAL DECK PER ROOF NOTE #9

REMOVE (E) METAL DECK PER ROOF NOTE #10

REMOVE (E) METAL DECK PER ROOF NOTE #11

REMOVE (E) METAL DECK PER ROOF NOTE #12

REMOVE (E) METAL DECK PER ROOF NOTE #13

REMOVE (E) METAL DECK PER ROOF NOTE #14

REMOVE (E) METAL DECK PER ROOF NOTE #15

REMOVE (E) METAL DECK PER ROOF NOTE #16

REMOVE (E) METAL DECK PER ROOF NOTE #17

REMOVE (E) METAL DECK PER ROOF NOTE #18

REMOVE (E) METAL DECK PER ROOF NOTE #19

REMOVE (E) METAL DECK PER ROOF NOTE #20

REMOVE (E) METAL DECK PER ROOF NOTE #21

REMOVE (E) METAL DECK PER ROOF NOTE #22

REMOVE (E) METAL DECK PER ROOF NOTE #23

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REMOVE (E) METAL DECK PER ROOF NOTE #94

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REMOVE (E) METAL DECK PER ROOF NOTE #96

REMOVE (E) METAL DECK PER ROOF NOTE #97

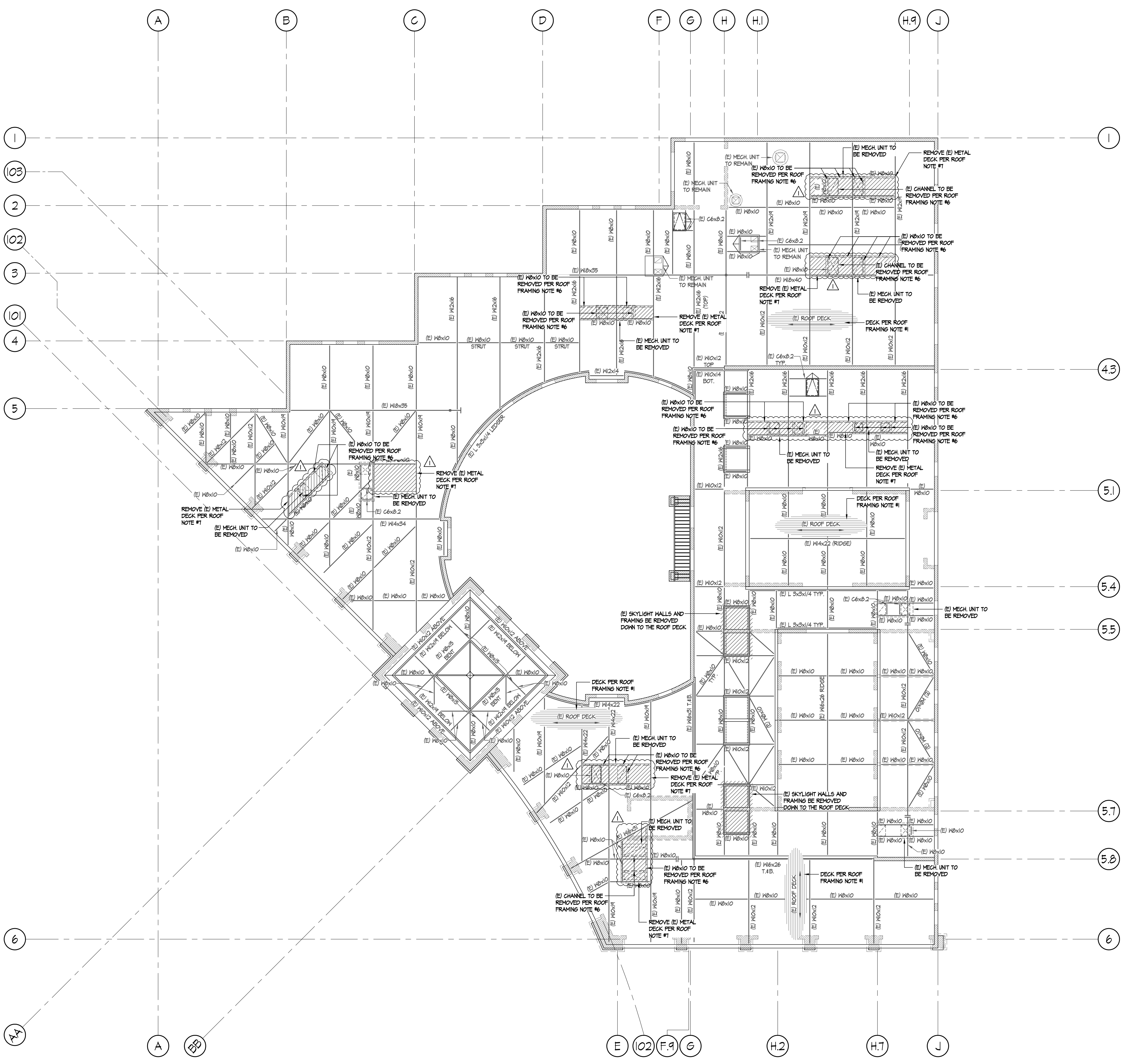
REMOVE (E) METAL DECK PER ROOF NOTE #98

REMOVE (E) METAL DECK PER ROOF NOTE #99

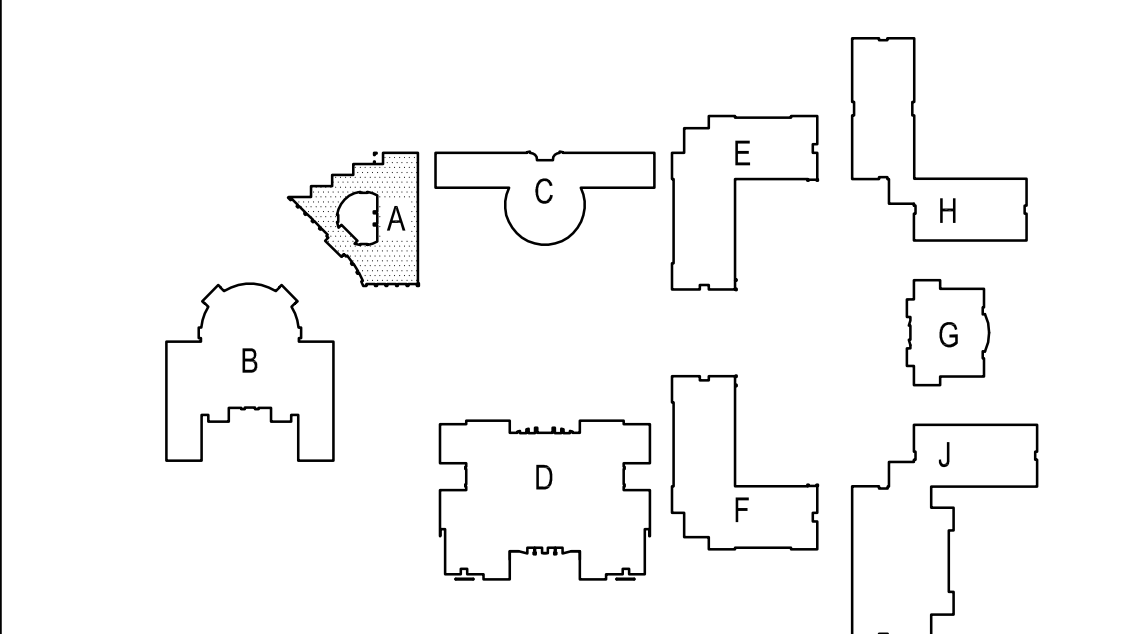
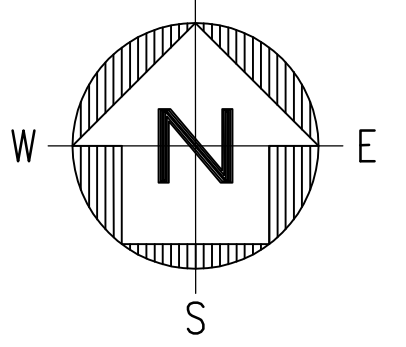
REMOVE (E) METAL DECK PER ROOF NOTE #100

DEMO HATCH LEGEND

APPROXIMATE AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF (E) FRAMING AND INSTALLATION OF (N) FRAMING



BLDG. 'A' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



SITE KEY PLAN



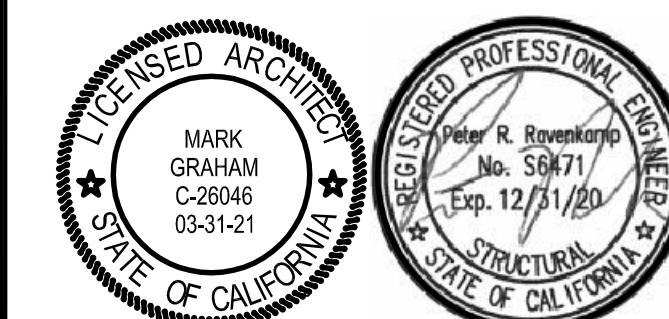
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NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1

REVISIONS

DRAWN:	CHECKED:
DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

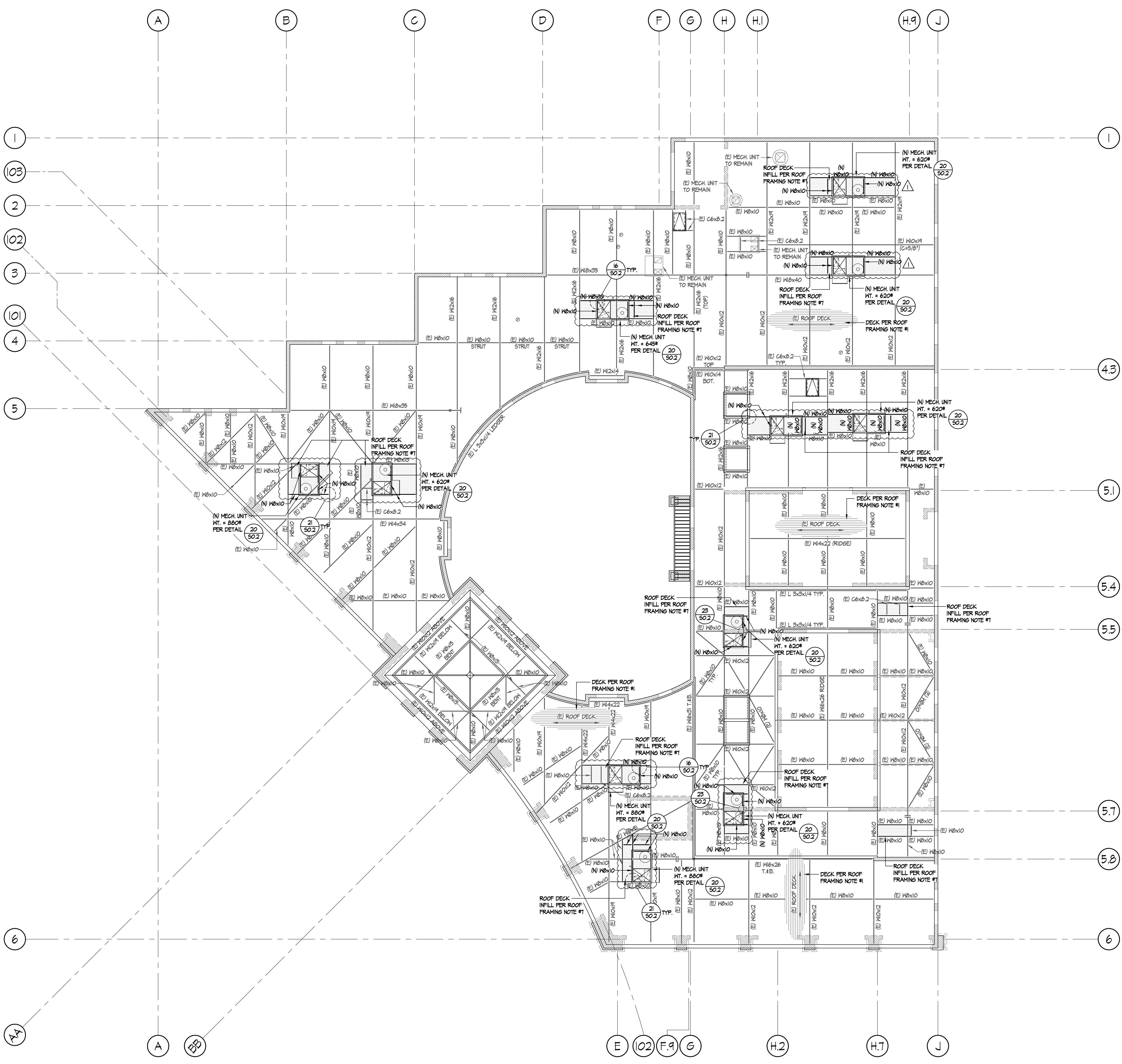
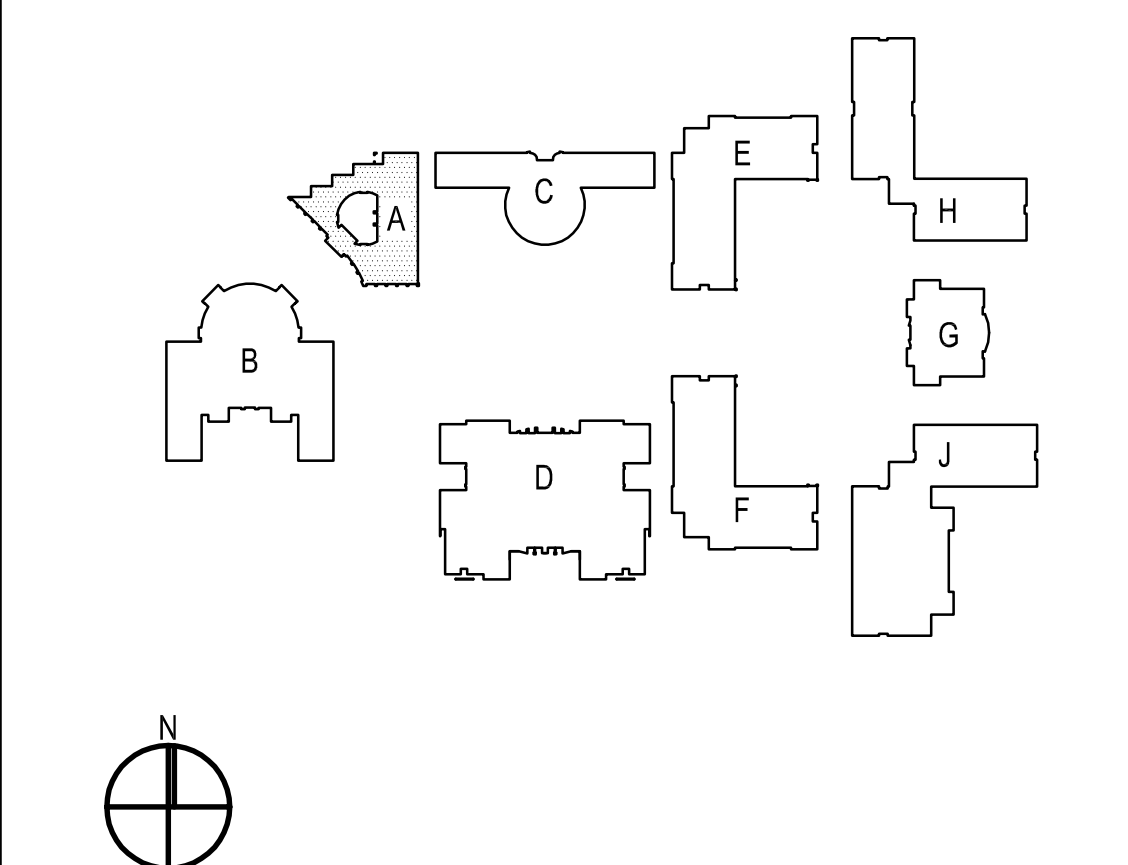
**BUILDING A
ROOF FRAMING
REMODEL PLAN**

DRAWING NUMBER: **S2.2**

- ### ROOF FRAMING REMODEL NOTES
- 1/2" DEEP 18 GA. VERCO HB-36 GALV. STL. DECK W/ 5/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - INTERIOR NON-BEARING STD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS.
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 16/502 OR 5/503.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 15/503. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION.
 - REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 15/502.
 - (N) BEAM TO (E) BEAM CONNECTION PER 20/502. (N) BEAM TO (N) BEAM CONNECTION PER 16/502.
 - THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS.

HATCH LEGEND

	(N) INFILL SHG TO MATCH SAME PATTERN AND LAYOUT AS (E) SHG. SEE DETAIL 15/503
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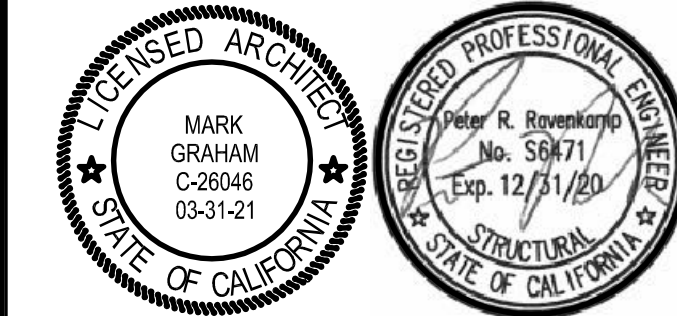
BLDG. 'A' ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"
N
W E
S



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1	8/25/20	JV	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
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DATE: 12/08/2020 SCALE: N.T.S.
PROJECT NUMBER: 1917000

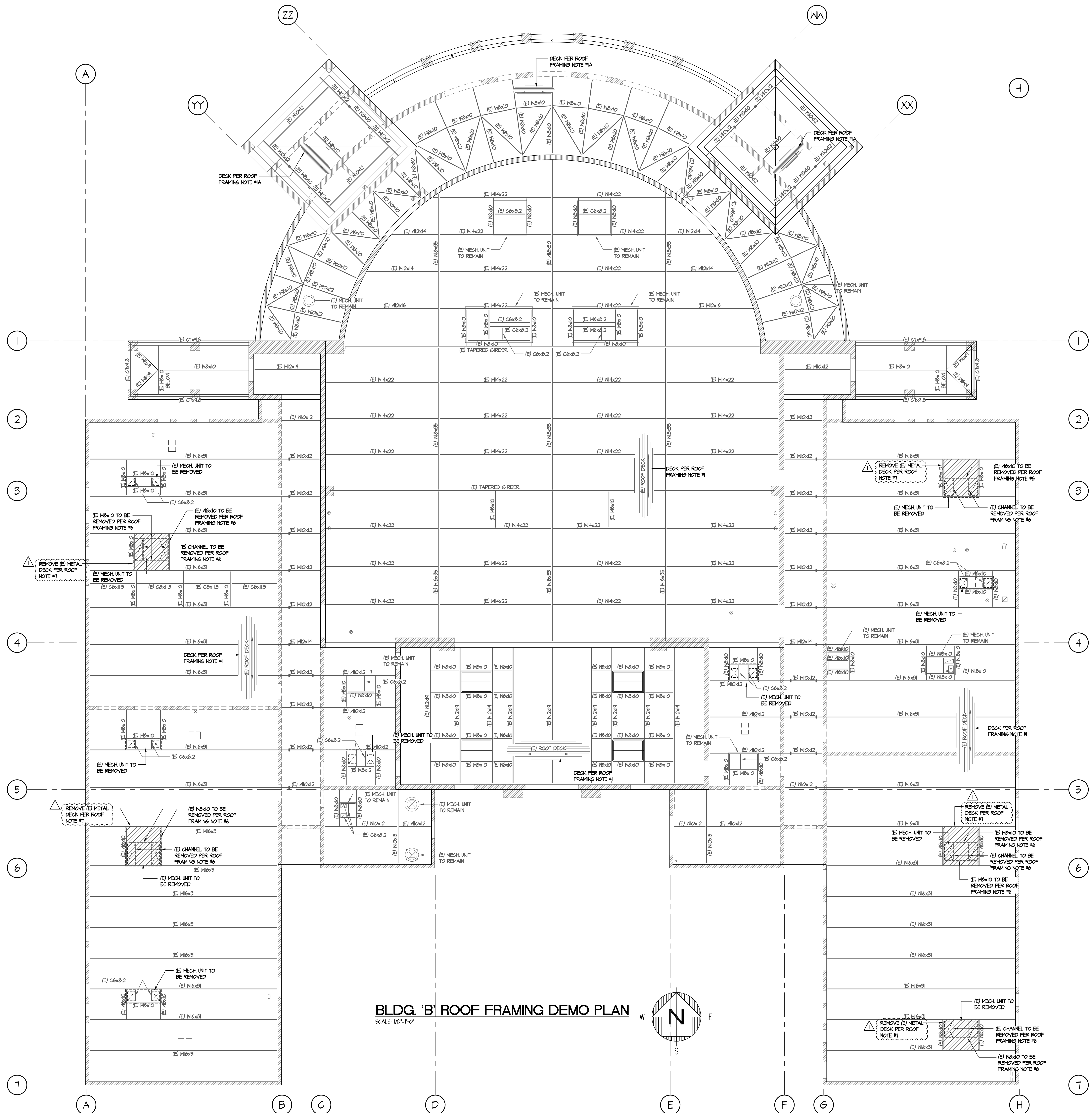
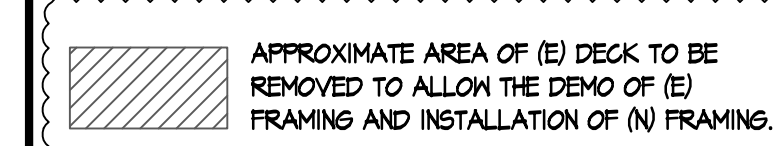
BUILDING B
ROOF FRAMING
DEMO PLAN

DRAWING NUMBER: S2.3

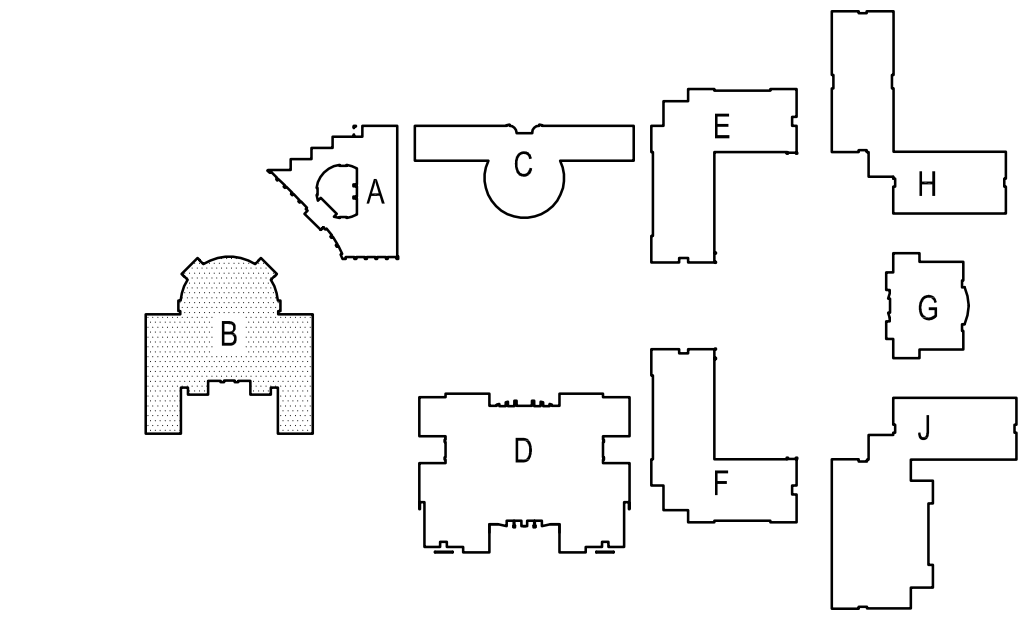
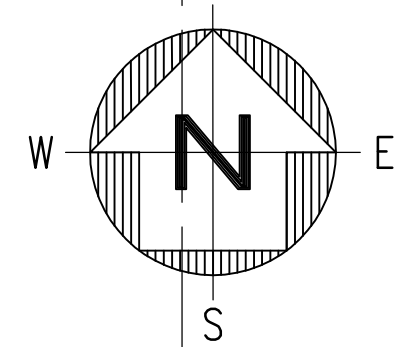
ROOF FRAMING DEMO NOTES

- 1 1/2" DEEP 18 GA. VERCO HB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1 1/2" LONG @ 12" O.C.
- NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
- INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
- BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL (S)502.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
- REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ACCEPTABLE.

DEMO HATCH LEGEND



BLDG. 'B' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"

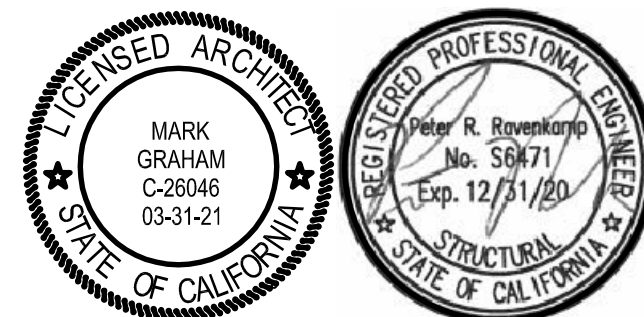


SITE KEY PLAN



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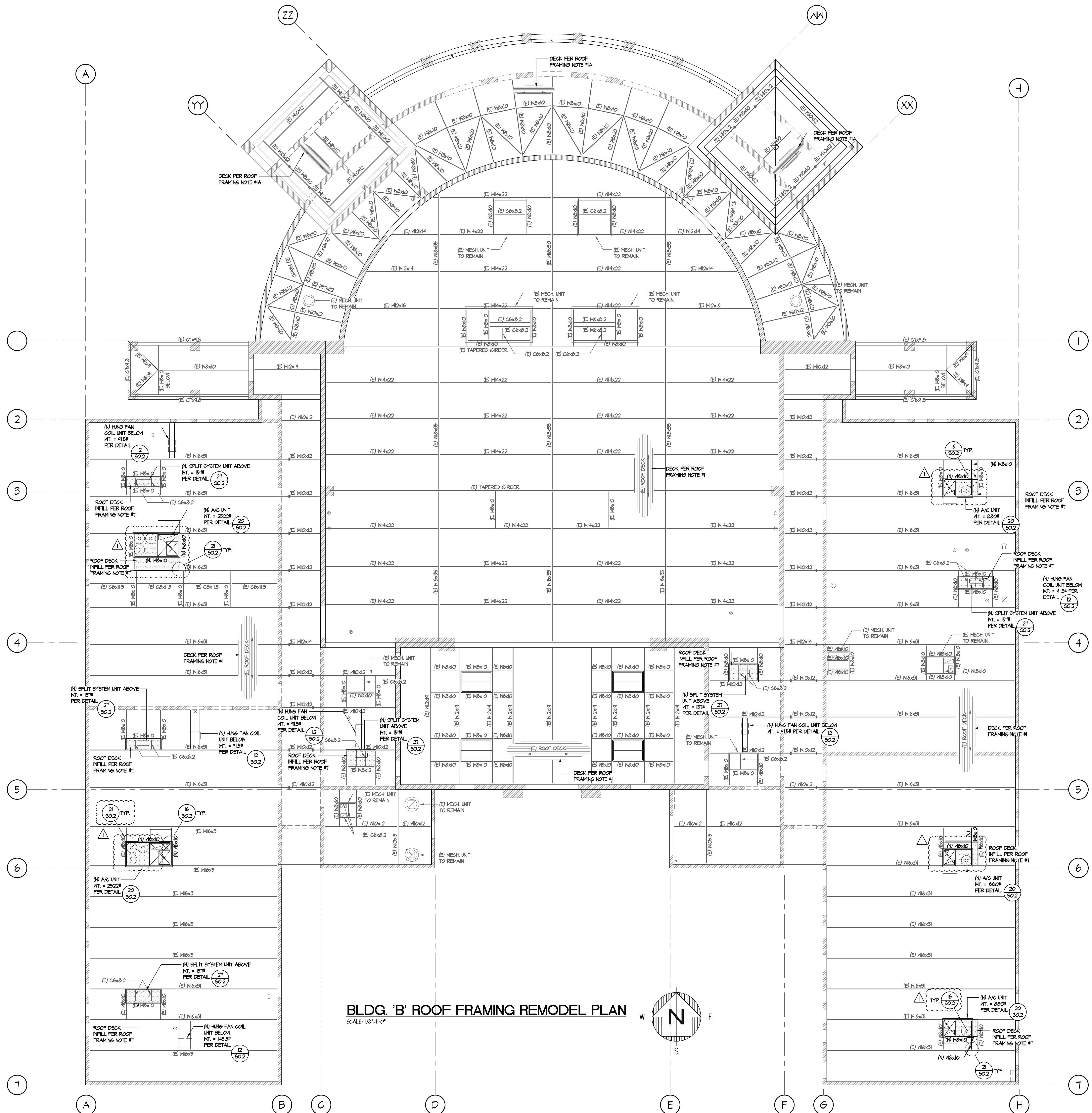
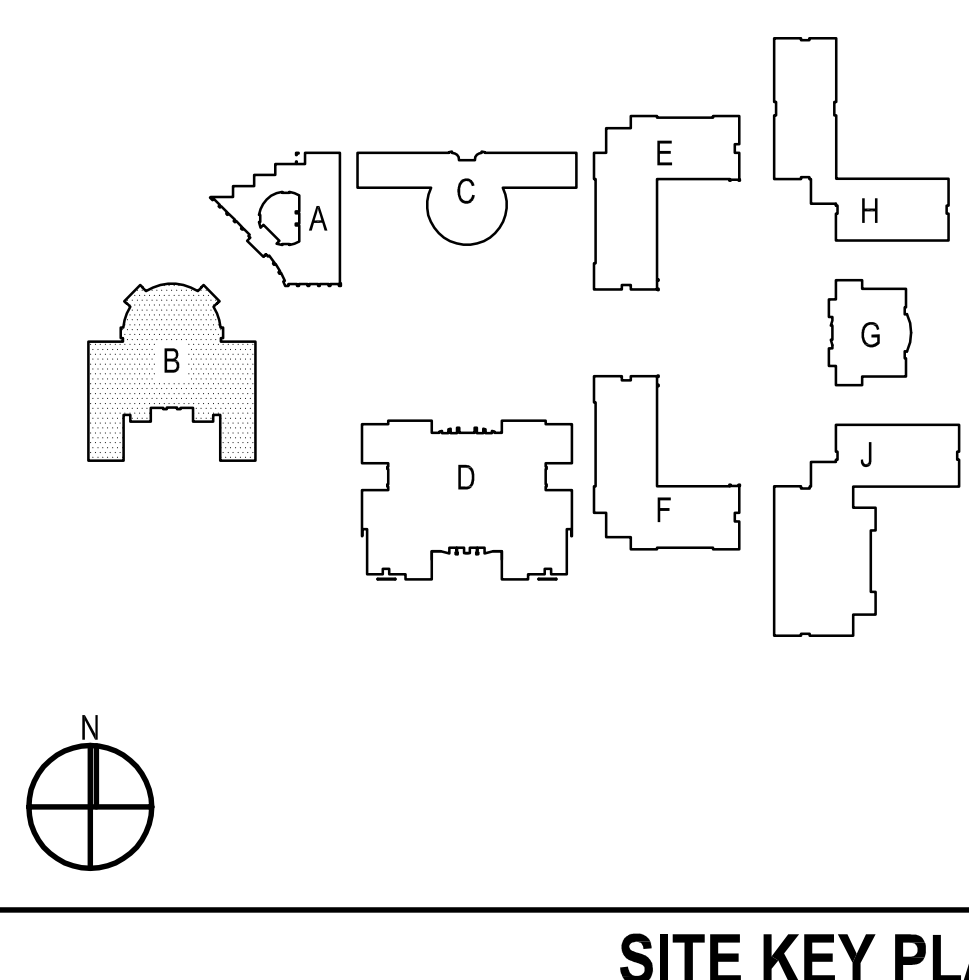
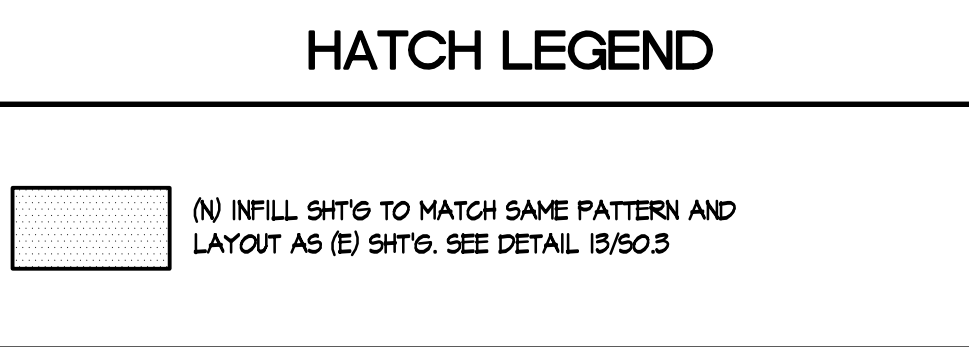
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1	8/25/20	JV	ADDENDUM 1

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DATE: 12/08/2020 SCALE: N.T.S.
PROJECT NUMBER: 1917000

**BUILDING B
ROOF FRAMING
REMODEL PLAN**
DRAWING NUMBER: **S2.4**

- ROOF FRAMING REMODEL NOTES**
- 1 1/2" DEEP 18 GA. VERCO HB-36 GALV. STL. DECK W/ 5/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 16/SO.2 OR 5/SO.3.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 16/SO.2. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION. (N) DECK INFILL TO BE ORIENTED THE SAME DIRECTIONS AS THE EXISTING.
 - REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 16/SO.2.
 - (N) BEAM TO (E) BEAM CONNECTION PER 21/SO.2. (N) BEAM TO (N) BEAM CONNECTION PER 16/SO.2.
 - THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS.



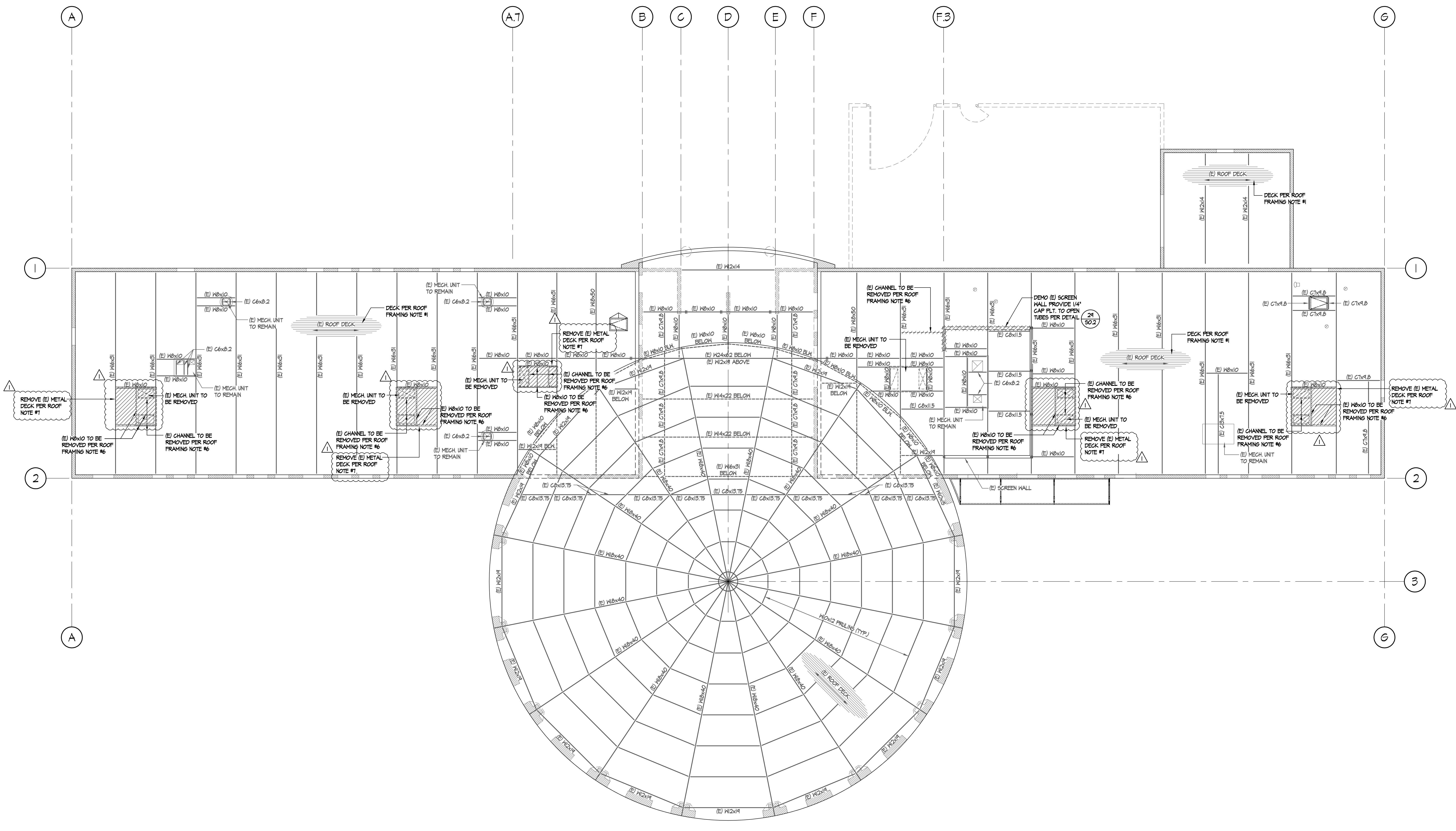
BLDG. 'B' ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"
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**PACIFICA HIGH SCHOOL
HVAC ADDITION
OXNARD UNION HIGH SCHOOL DISTRICT**

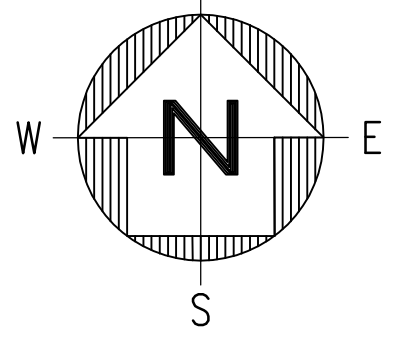
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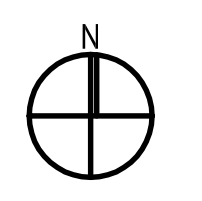
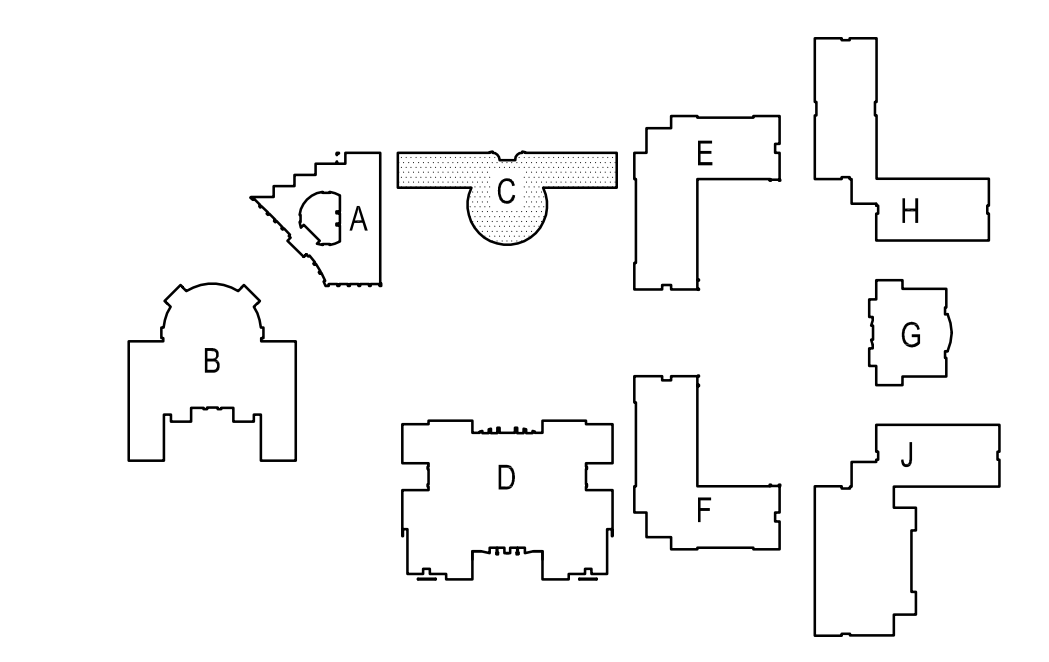
BLDG. 'C' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



DEMO HATCH LEGEND

	APPROXIMATE AREA OF (E) DECK TO BE REMOVED TO ALLOW THE DEMO OF (E) FRAMING AND INSTALLATION OF (N) FRAMING.
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- ROOF FRAMING DEMO NOTES**
- 1 1/2" DEEP 18 GA. VERCO HSB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUZZLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITES TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL B5/50.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
 - REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ACCEPTABLE.



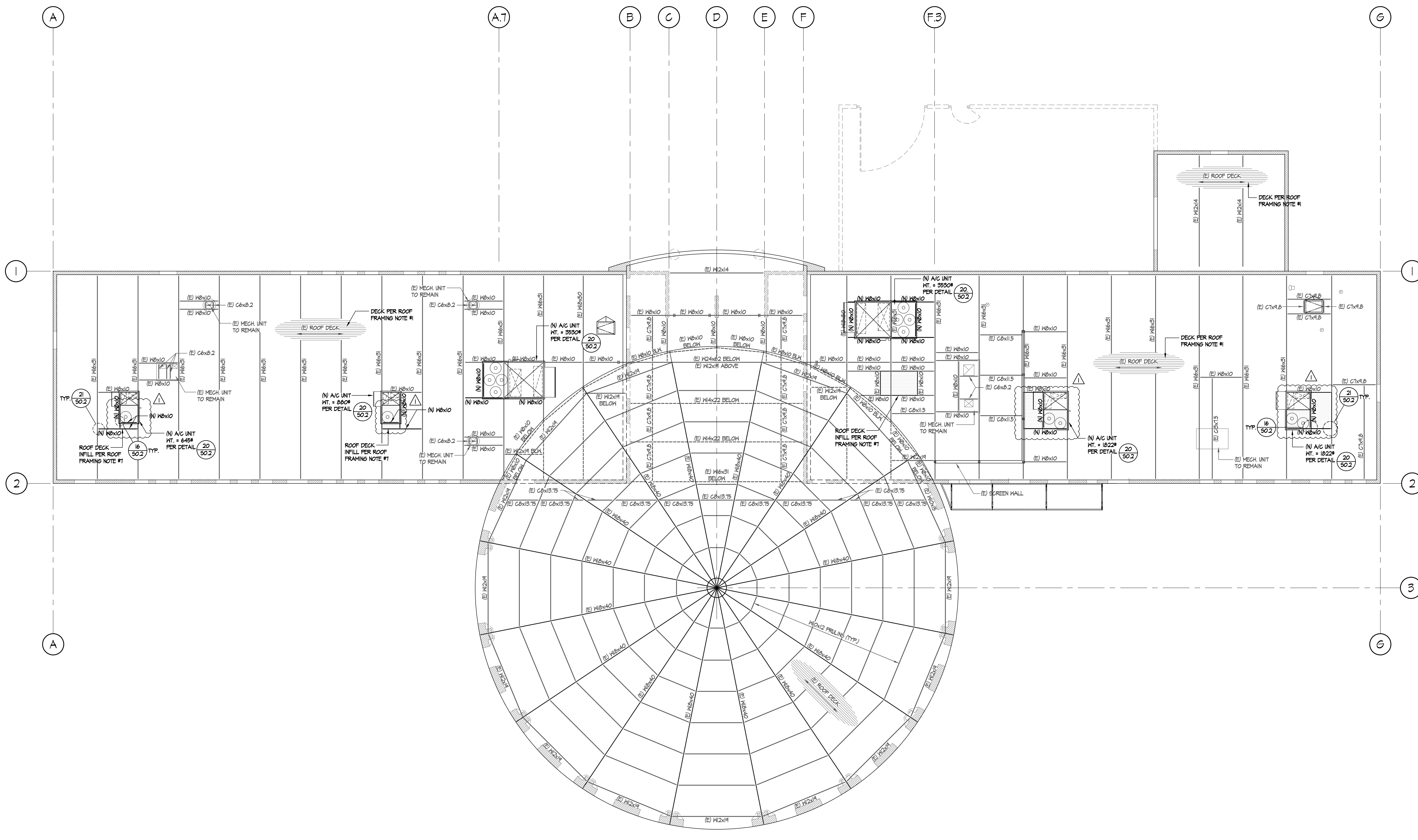
SITE KEY PLAN

1	8/25/20	JV	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			

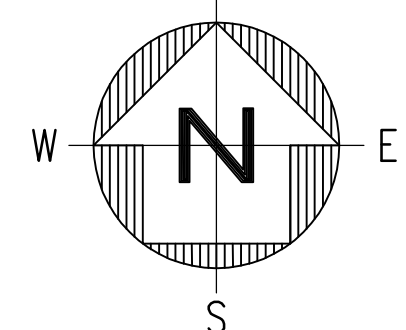
DRAWN:	CHECKED:
DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

**BUILDING C
ROOF FRAMING
DEMO PLAN**

DRAWING NUMBER: **S2.5**



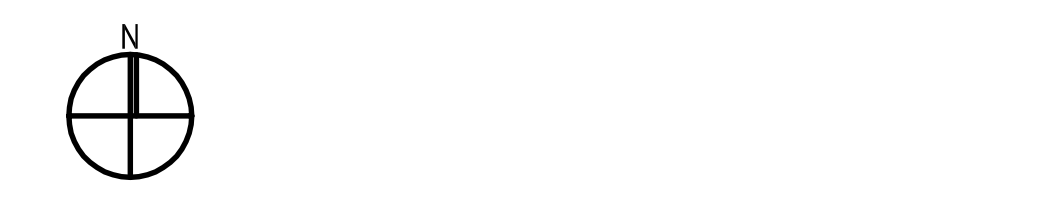
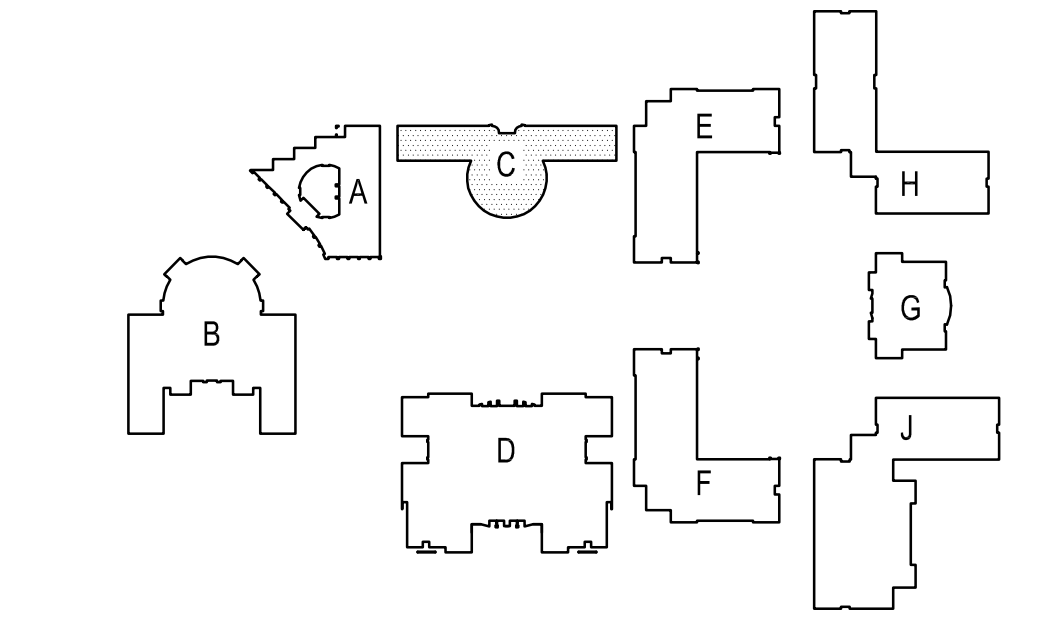
BLDG. 'C' ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"



HATCH LEGEND

	(N) INFILL SHG'S TO MATCH SAME PATTERN AND LAYOUT AS (E) SHG'S. SEE DETAIL 15/503
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- ROOF FRAMING REMODEL NOTES**
- 1 1/2" DEEP 18 GA. VERCO HSB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PURPLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 14/502 OR 5/503.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN PR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 15/503. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION. (N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING.
 - REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 15/502.
 - (N) BEAM TO (E) BEAM CONNECTION PER 2/502. (N) BEAM TO (N) BEAM CONNECTION PER 16/502.
 - THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS.



NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1

REVISIONS

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DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

**BUILDING C
ROOF FRAMING
REMODEL PLAN**

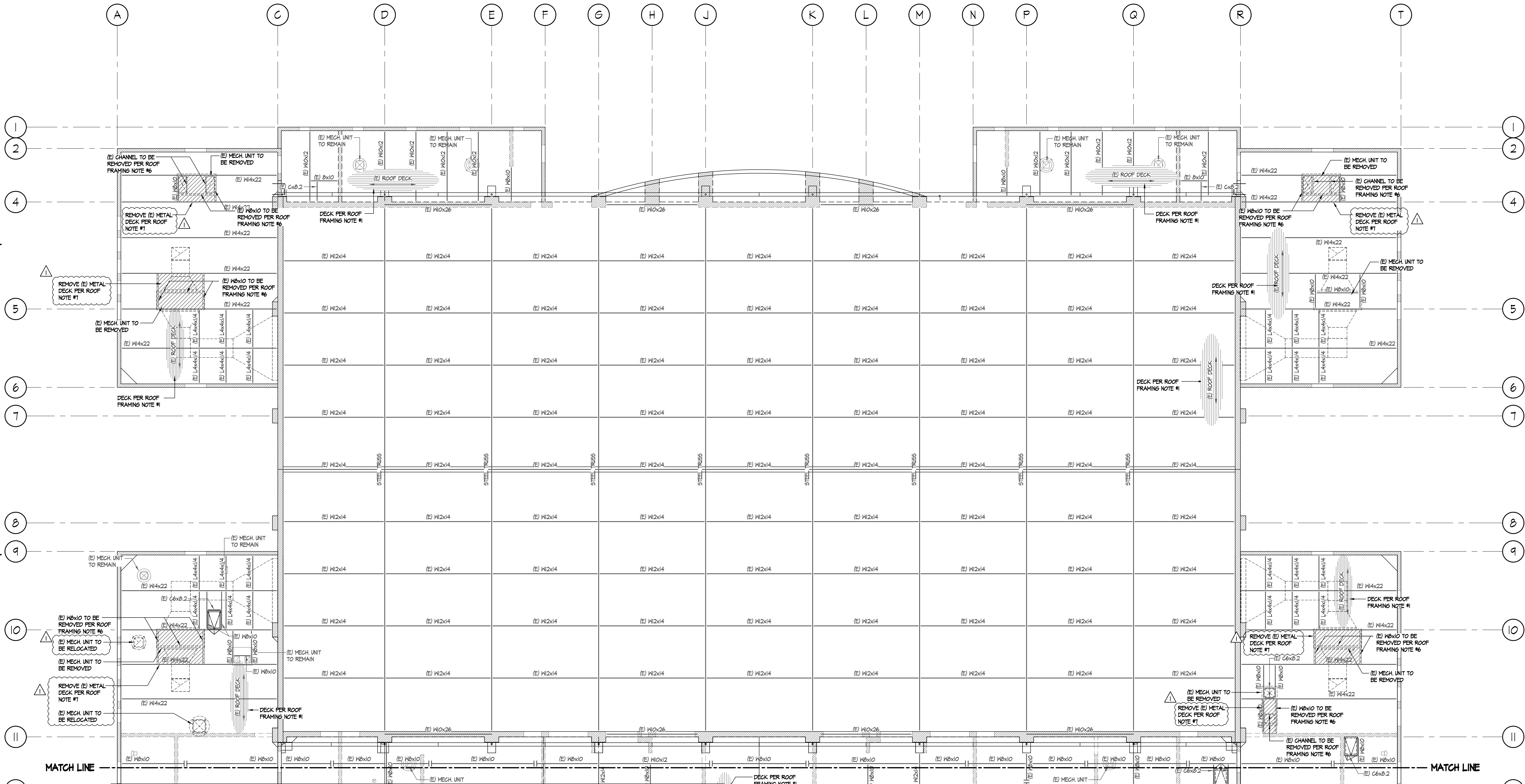
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1	8/25/20	JV	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
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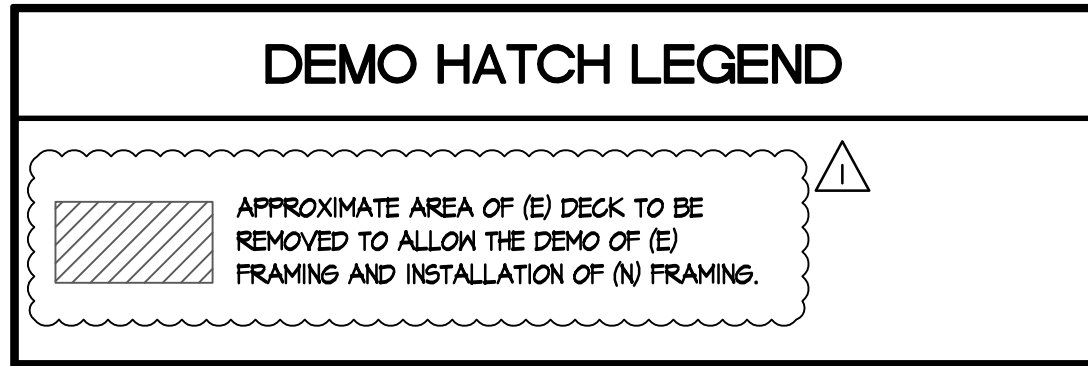
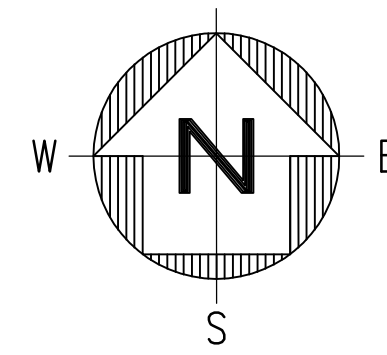
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DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

**BUILDING D AREA 1
ROOF FRAMING
DEMO PLAN**

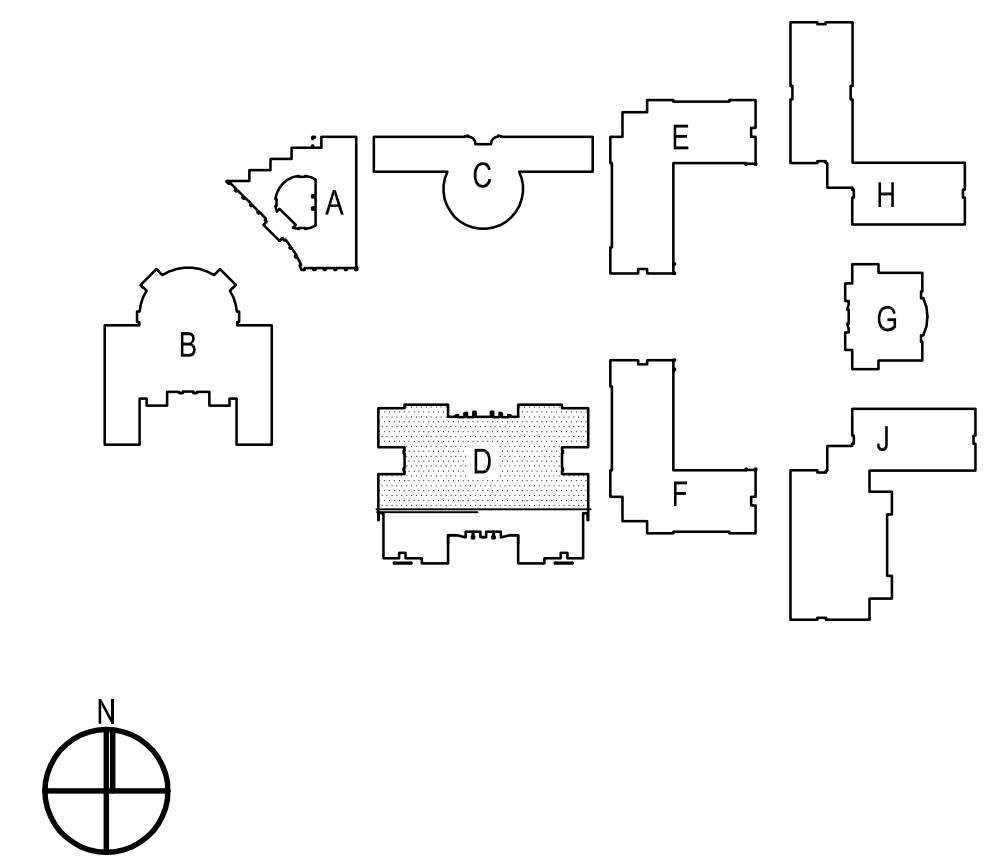
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BLDG. 'D' AREA 1 ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



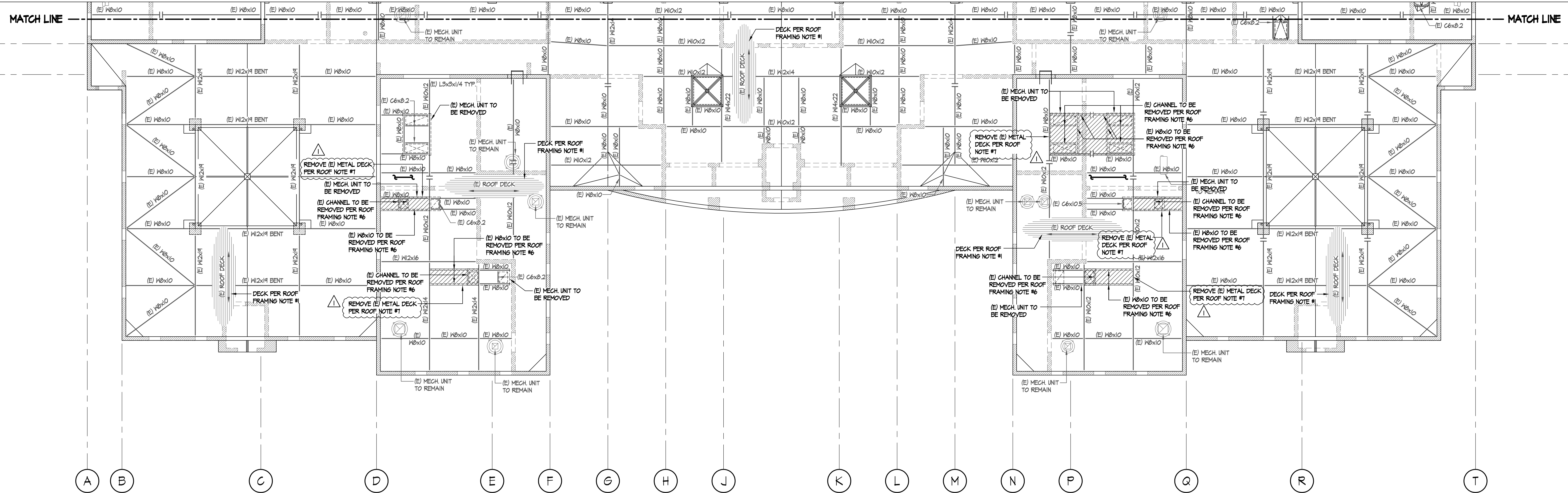
- ROOF FRAMING DEMO NOTES**
1. 1 1/2" DEEP 16 GA. VERCO HSB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUZZLE HOLE @ 12" O.C. AND AT EA. LOW FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1 1/2" LONG @ 12" O.C.
 2. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 3. (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 4. BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 5. THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 6. REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL B5/50.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
 7. REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ACCEPTABLE.



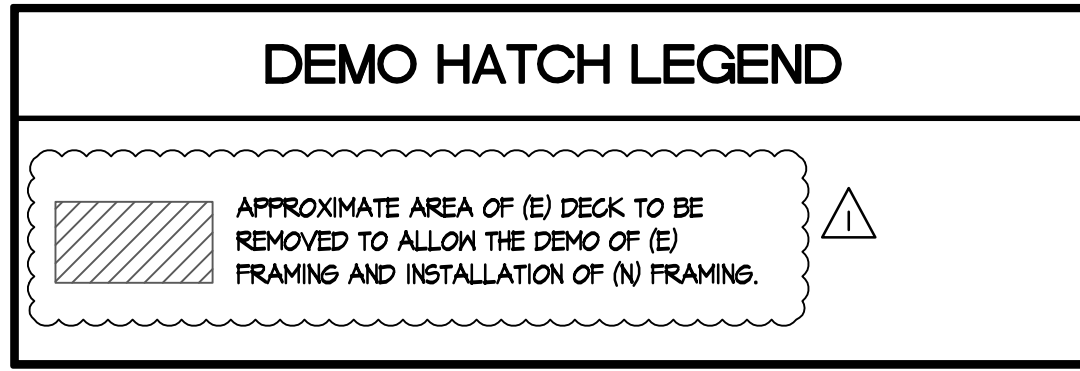
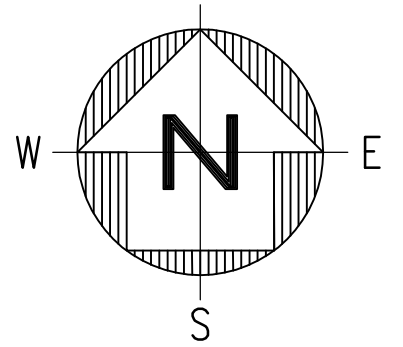
SITE KEY PLAN



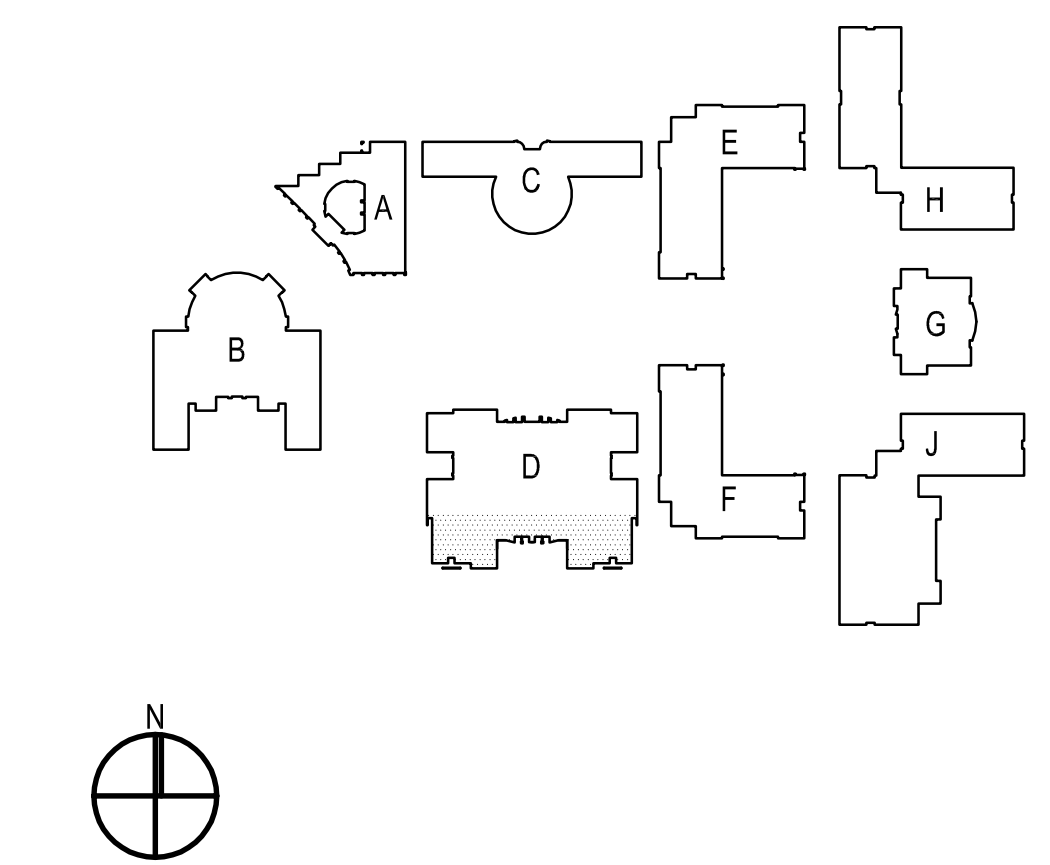
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BLDG. 'D' AREA 2 ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



- ROOF FRAMING DEMO NOTES**
- 1 1/2" DEEP 16 GA. VERCO HSB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUZZLE HELD @ 12" O.C. AND AT EA. LOW FLUTE. ATTACH SEAMS W/ TOP SEAM HELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITES TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL B5/0.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
 - REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ACCEPTABLE.



SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1

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PROJECT NUMBER: 1917000	

**BUILDING D AREA 2
ROOF FRAMING
DEMO PLAN**

DRAWING NUMBER: **S2.8**

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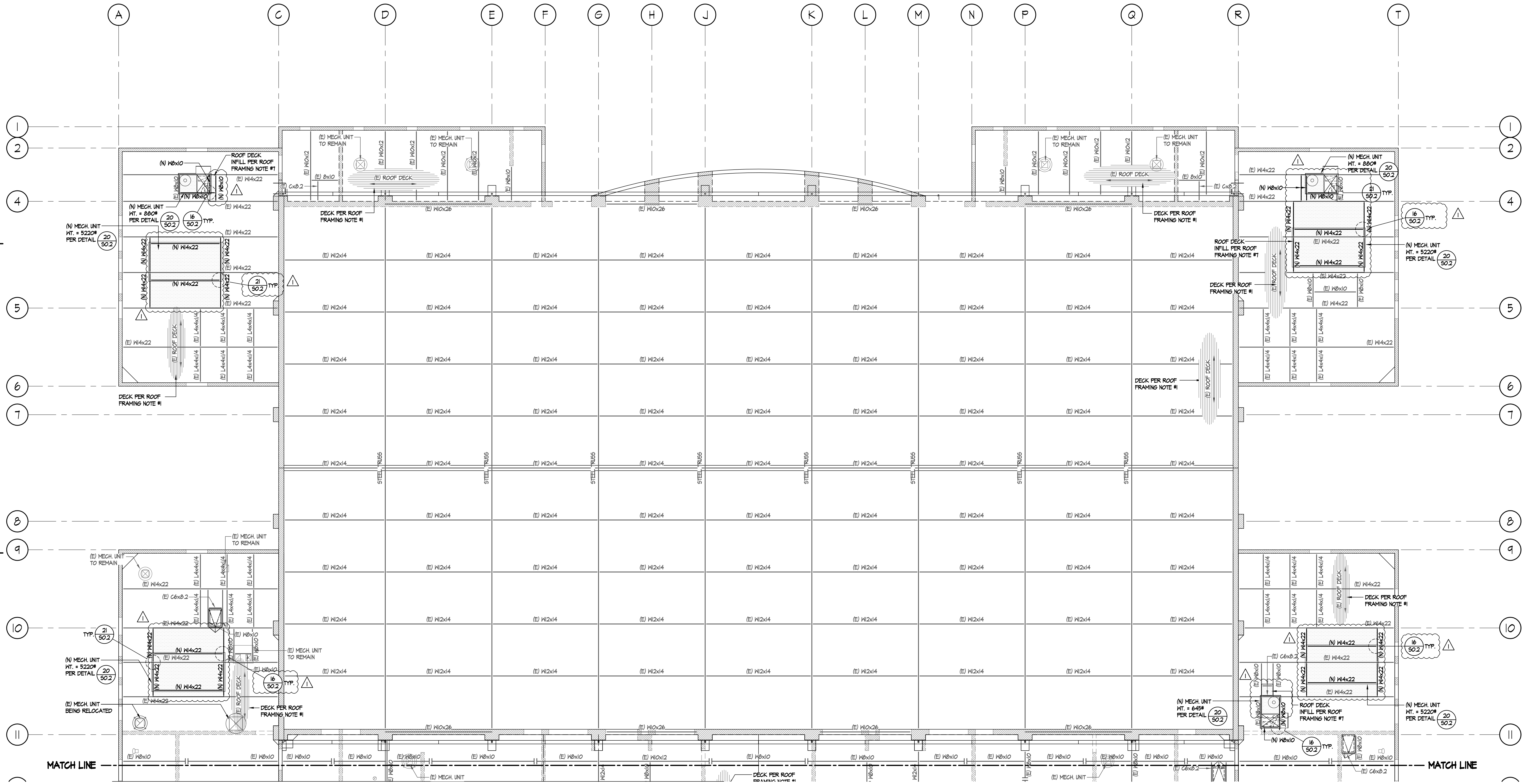
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NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1

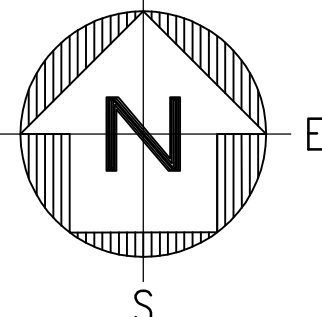
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DRAWN:	CHECKED:
DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

**BUILDING D AREA 1
ROOF FRAMING
REMODEL PLAN**

DRAWING NUMBER: **S2.9**

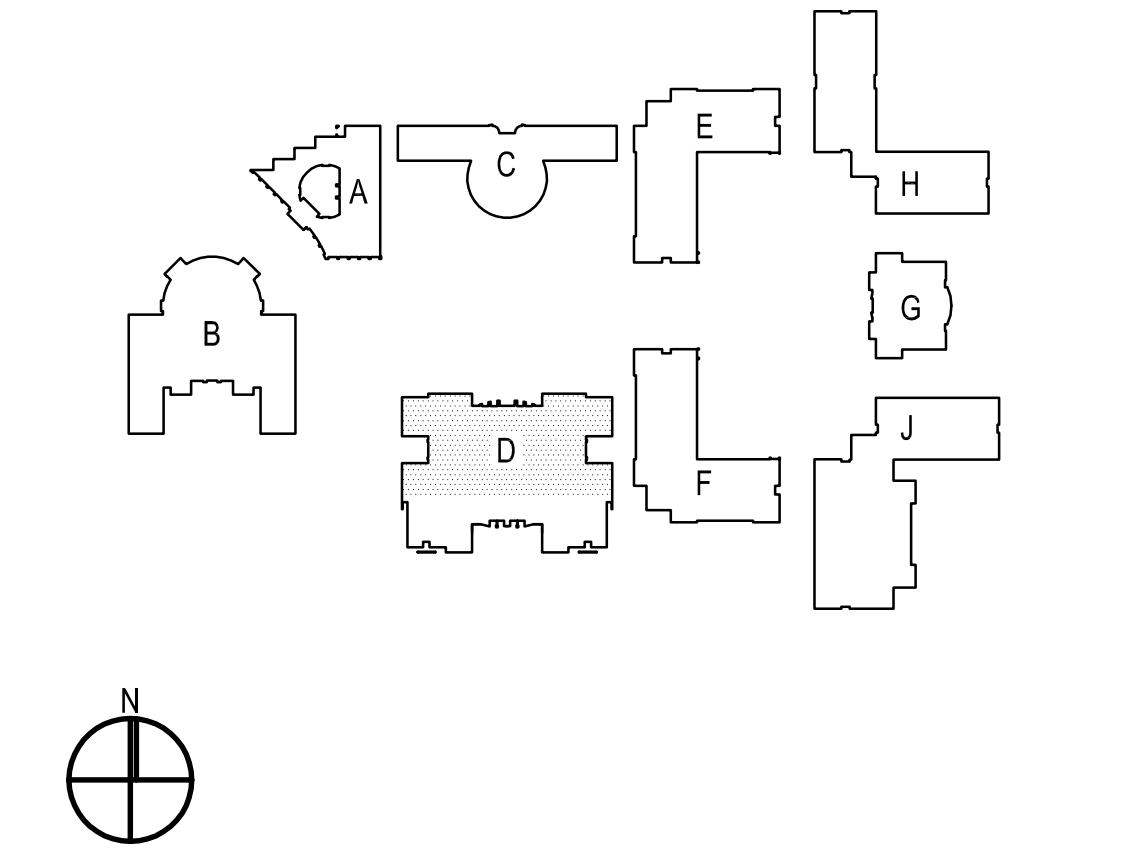


BLDG. 'D' AREA 1 ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"



HATCH LEGEND	
	(N) INFILL SHG'S TO MATCH SAME PATTERN AND LAYOUT AS (E) SHG'S. SEE DETAIL 15/503

- ROOF FRAMING REMODEL NOTES**
- 1 1/2" DEEP 18 GA. VERCO HSB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUZZLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 14/502 OR 5/503.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN FOR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 15/503. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION. (N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING.
 - REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 15/502.
 - (N) BEAM TO (E) BEAM CONNECTION PER 21/502. (N) BEAM TO (N) BEAM CONNECTION PER 16/502.
 - THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS.



SITE KEY PLAN

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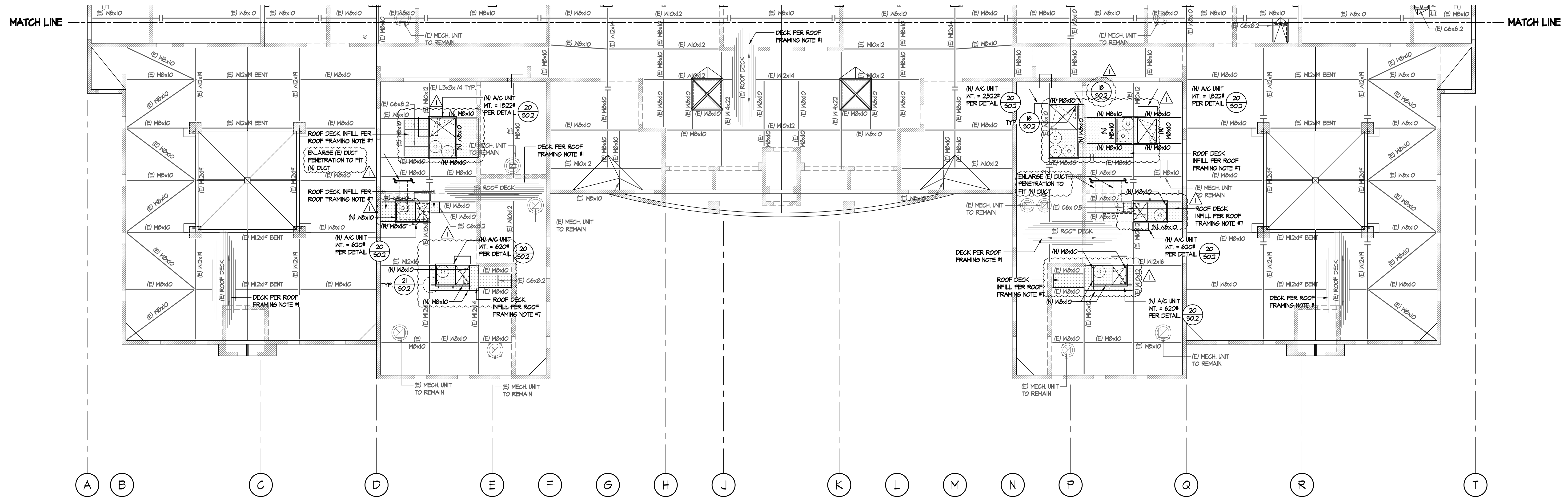
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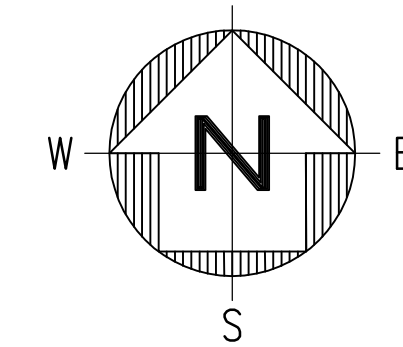
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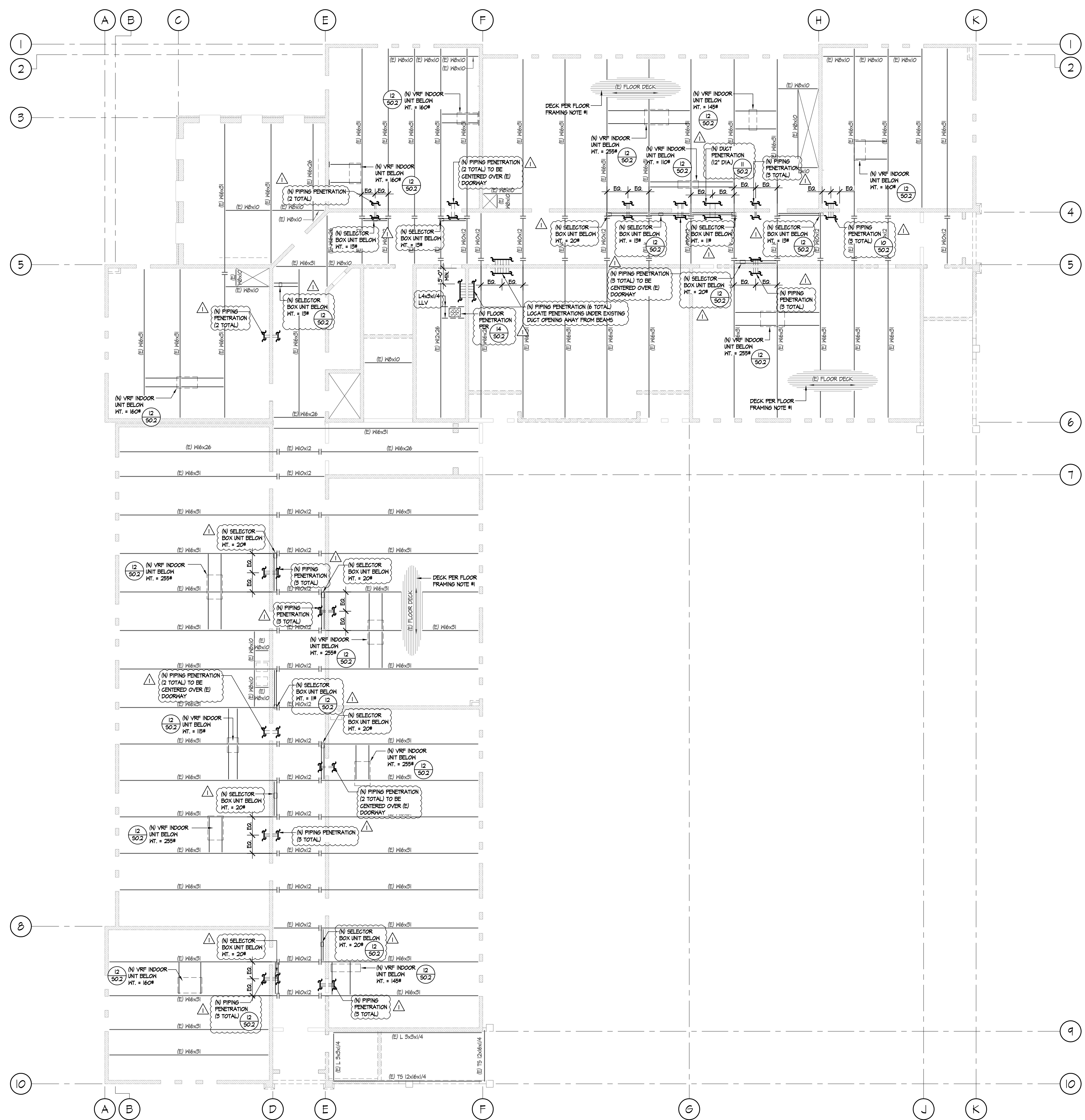
BLDG. 'D' AREA 2 ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"



HATCH LEGEND	
	(N) INFILL SHG'S TO MATCH SAME PATTERN AND LAYOUT AS (E) SHG'S. SEE DETAIL 15/503

- | ROOF FRAMING REMODEL NOTES | |
|--|--|
| 1. 1 1/2" DEEP 18 GA. VERCO HSB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1 1/2" LONG @ 12" O.C. | |
| 2. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER. | |
| 3. (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS | |
| 4. BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE. | |
| 5. (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 14/502 OR 5/503. | |
| 6. THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN FOR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION. | |
| 7. PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 15/503. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION. (N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING. | |
| 8. REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 15/502. | |
| 9. (N) BEAM TO (E) BEAM CONNECTION PER 2/502. (N) BEAM TO (N) BEAM CONNECTION PER 16/502. | |
| 10. THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS. | |

NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1
REVISIONS			
DRAWN:		CHECKED:	
DATE: 12/08/2020		SCALE: N.T.S.	
PROJECT NUMBER: 1917000			
BUILDING D AREA 2 ROOF FRAMING REMODEL PLAN			
DRAWING NUMBER:		S2.10	



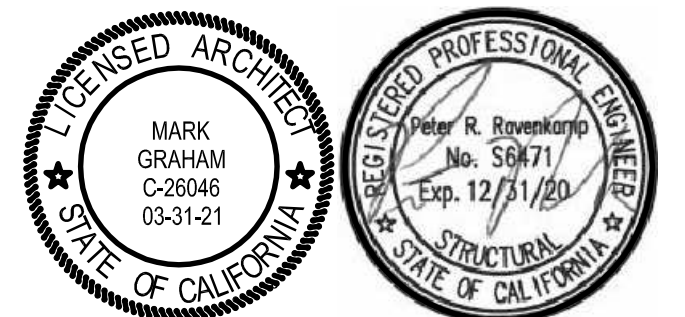
BLDG. 'E' SECOND FLOOR FRAMING PLAN
 SCALE: 1/8"=1'-0"
 W N E S

- SECOND FLOOR FRAMING NOTES**
- 2 1/2" LT. WT. CONG. SLAB W/ FIBER MESH W/ #5 @ 16" O.C. EA. WAY OVER 1 1/2"x20 GA. VERGO B' FORM-LOK (GALV) DECK BY VERGO MANUFACTURING CO. @ 1/4" TOTAL THICKNESS (APPROX. ER-21) QUANTITY OF FIBER MESH IN CONG. PER CONG. NOTE.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - HANG UNITS SHOULD BE FRAMED PER DETAIL 12/503 OR 1/503.
 - FLOOR PENETRATIONS SHOULD BE FRAMED PER DETAIL 4/504.
 - (E) INTERIOR NON-BEARING STUD WALLS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN FOR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - THE SUPPORT OF THE MECHANICAL UNIT, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS.
 - (N) PIPE PENETRATIONS MUST FOLLOW 10/502.



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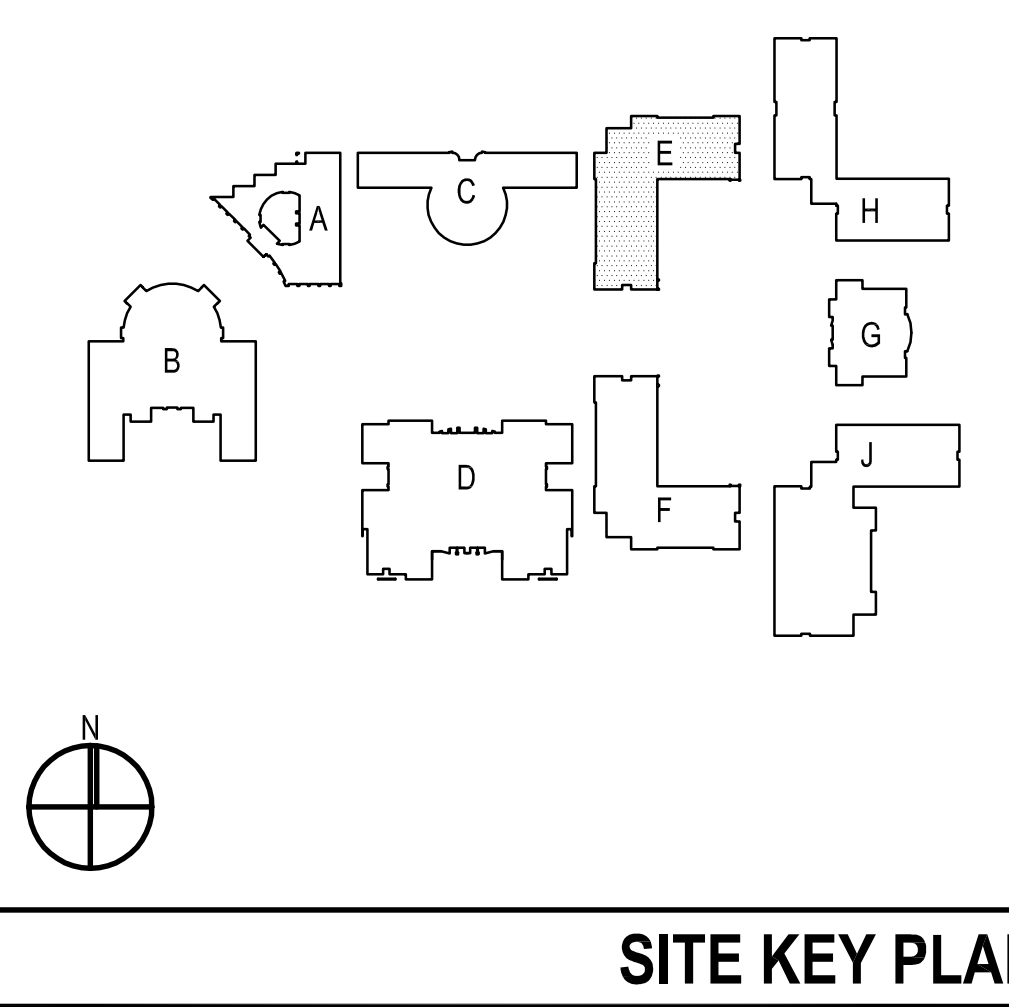
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NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1
REVISIONS			

DRAWN: _____ CHECKED: _____
 DATE: 12/08/2020 SCALE: N.T.S.
 PROJECT NUMBER: 1917000

**BUILDING E
 SECOND FLOOR
 FRAMING PLAN**

DRAWING NUMBER: **S2.11**



ARCHITECTS

WLC

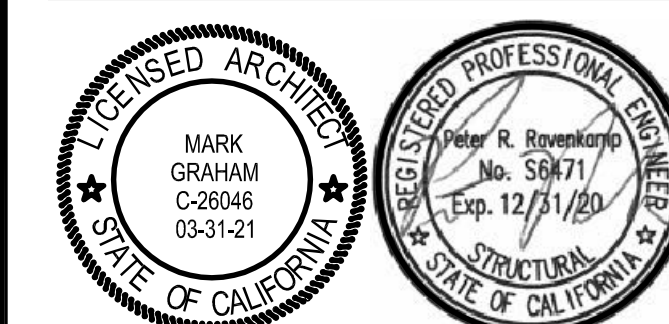
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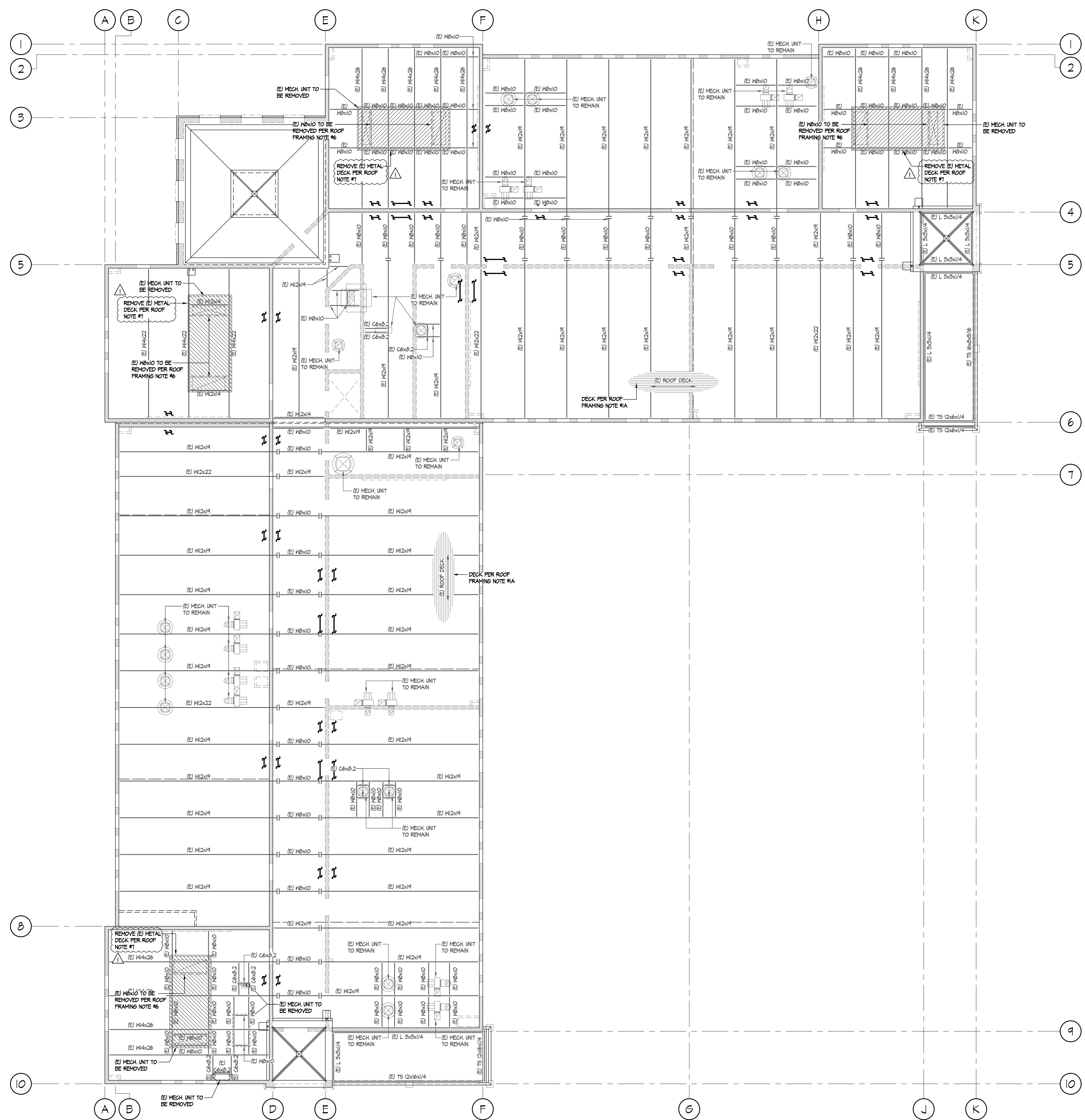
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN:	CHECKED:
DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

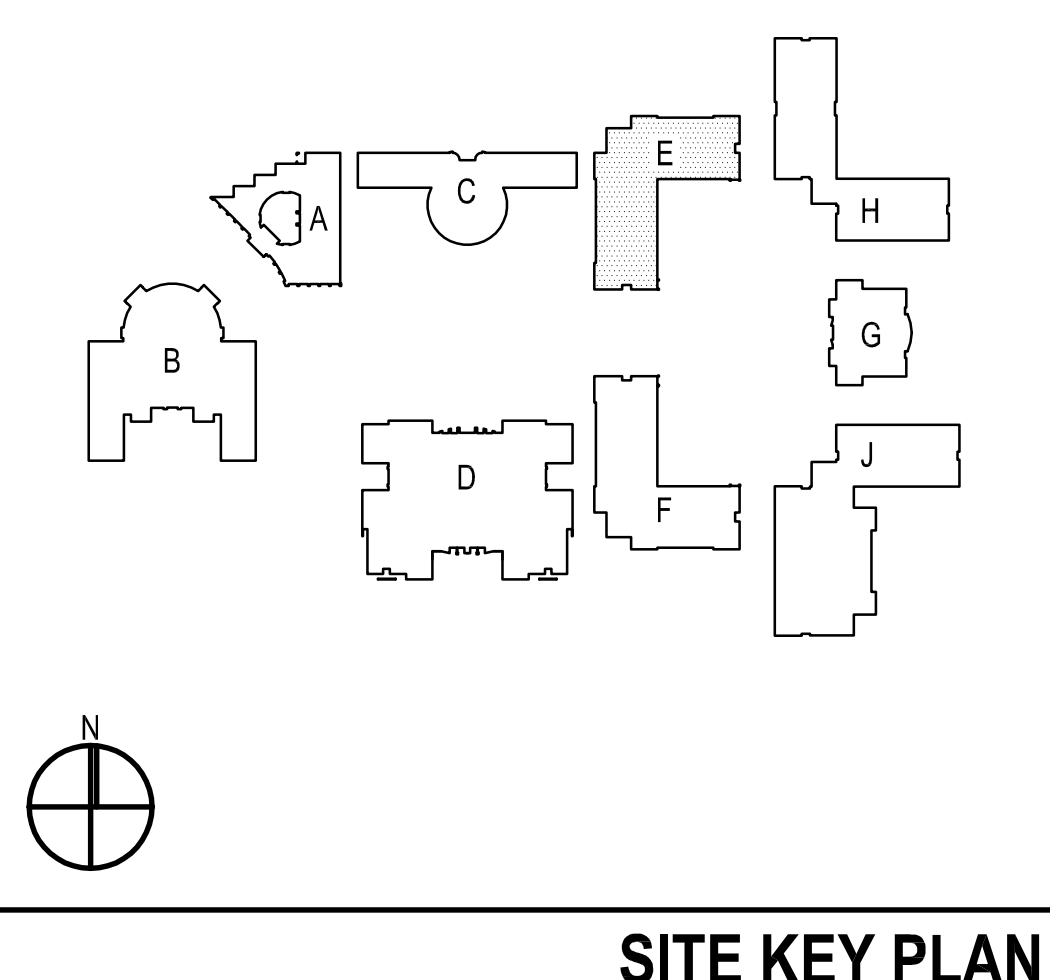
**BUILDING E
ROOF FRAMING
DEMO PLAN**

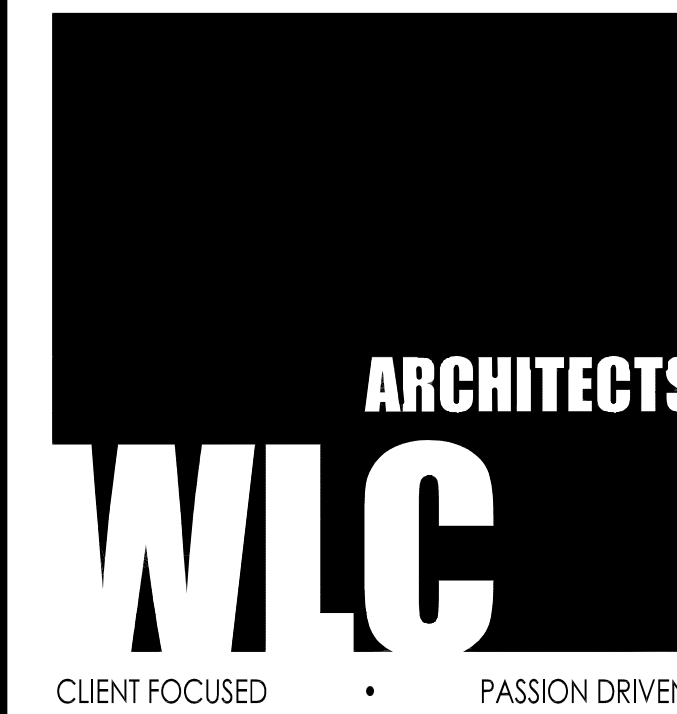
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- ROOF FRAMING DEMO NOTES**
- 1 1/2" DEEP @ 6A. VERGO HB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (E) INTERIOR NON-BEARING STD WALLS AND SOFFITES TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL (B)502. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
 - EXISTING DECKING TO BE REMOVED AS REQUIRED TO REMOVE DEMO'D FRAMING AND INSTALL NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE.



BLDG. 'E' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"

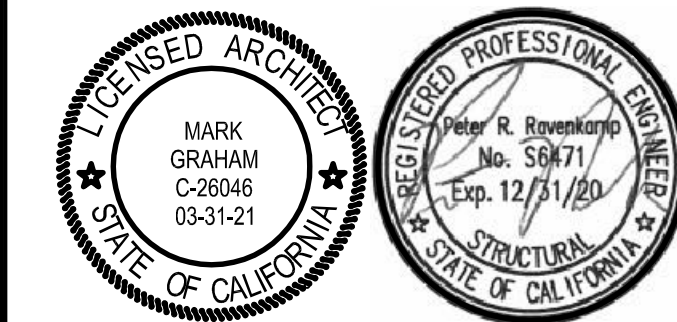




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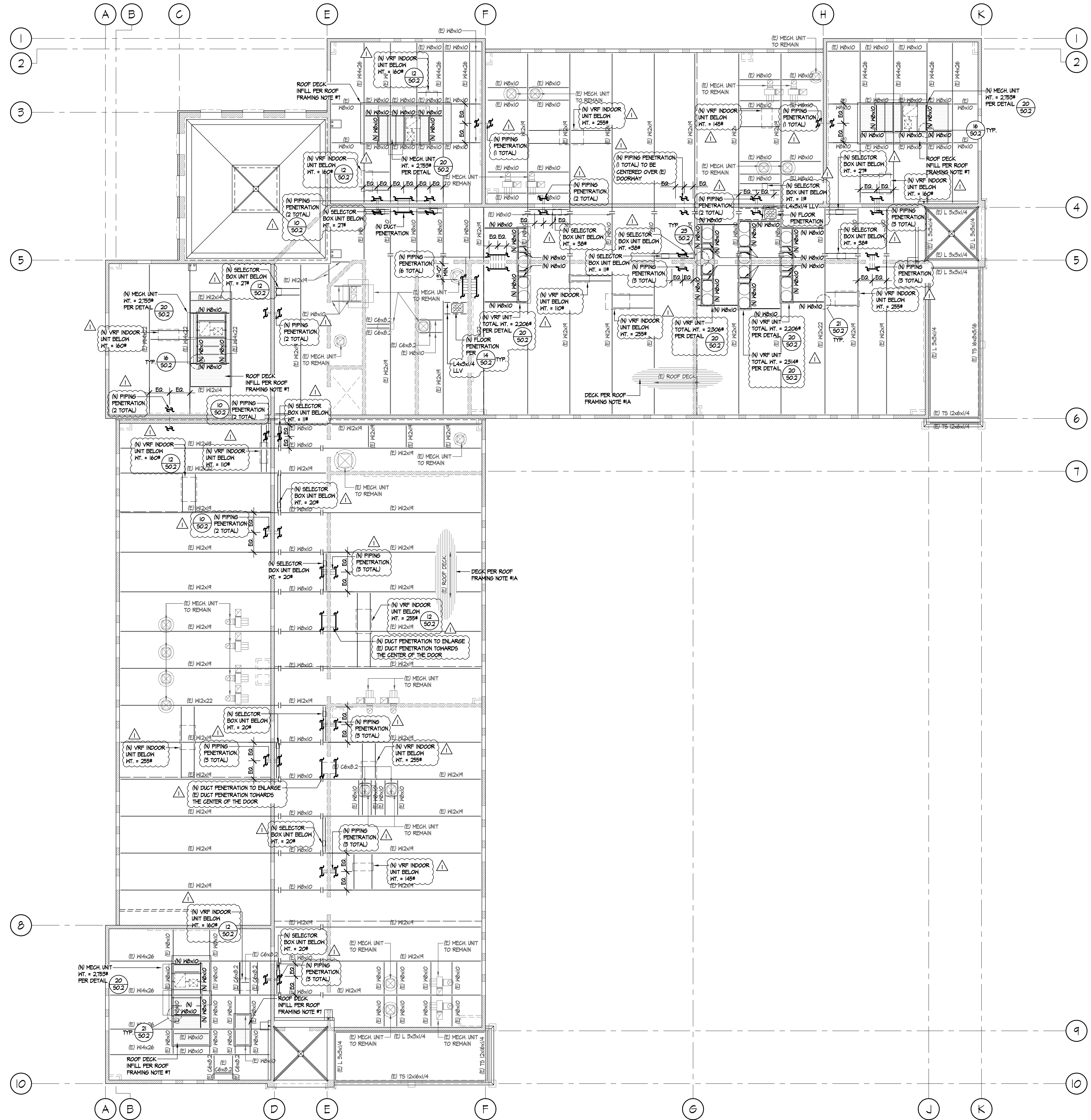
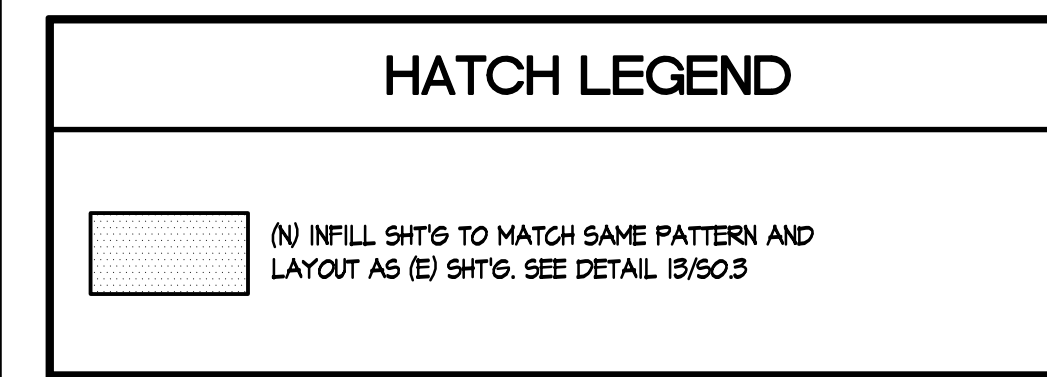
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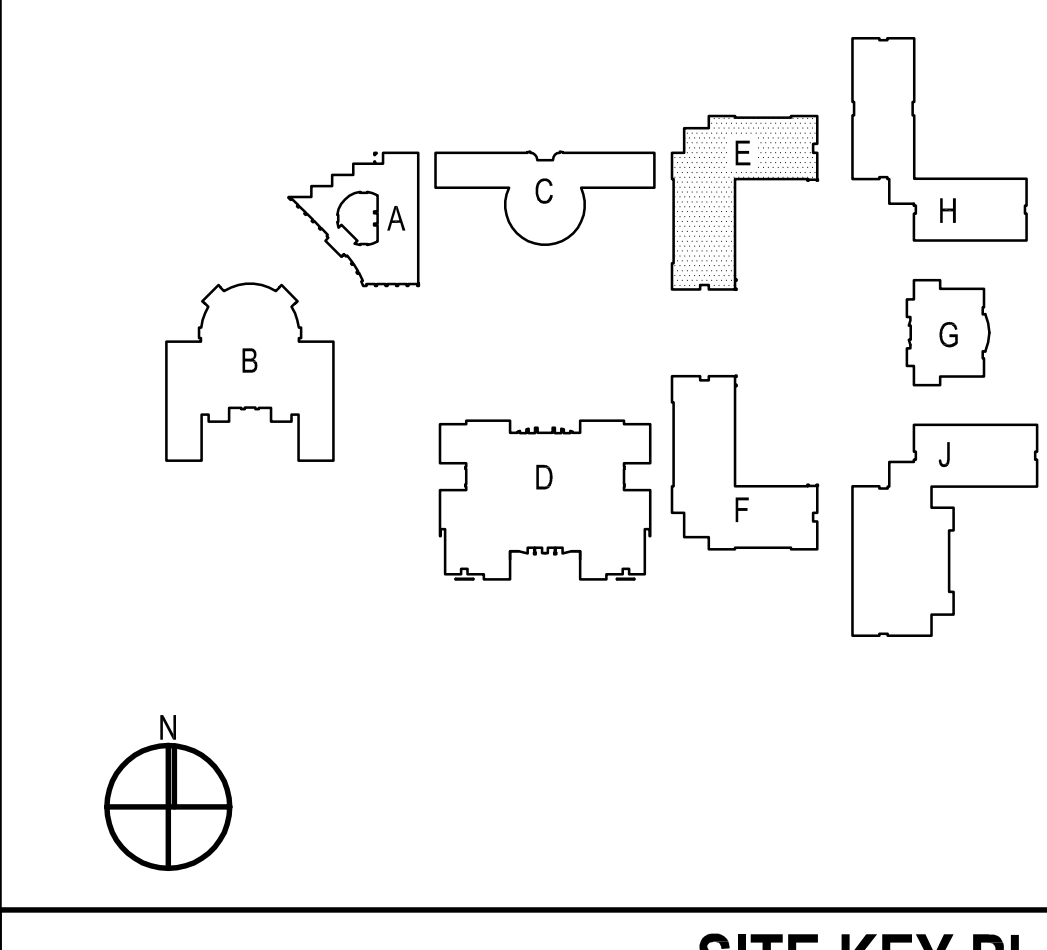


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F: 951.684.6226
JOB NO.: 201907

- ### ROOF FRAMING REMODEL NOTES
- 1 1/2" DEEP 20 GA. VERCO H58-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (E) INTERIOR NON-BEARING STD WALLS AND SOFFITS TO BE REMOVED AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS "STRUT" TO REMAIN IN PLACE.
 - (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 12/502 OR 15/03.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 15/025. SEE ARCH. & LEGAL DRAWINGS FOR REMAINING INFORMATION. (N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING.
 - REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 15/022.
 - THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS.
 - (N) BEAMS ARE NOT TO BE INSTALLED OVER (E) OPENINGS AS INDICATED IN DETAIL 11/502.
 - (N) WALL PENETRATIONS ARE TO BE PER DETAIL 10/502 AND ARE NOT TO BE UNDER (N) OR (E) BEAMS PER 11/502.
 - THE CONTRACTOR SHALL COORDINATE (N) WALL PENETRATIONS WITH THE INSTALLATION OF (N) BEAMS PRIOR TO FABRICATION AND INSTALLATION OF THE STEEL BEAMS.



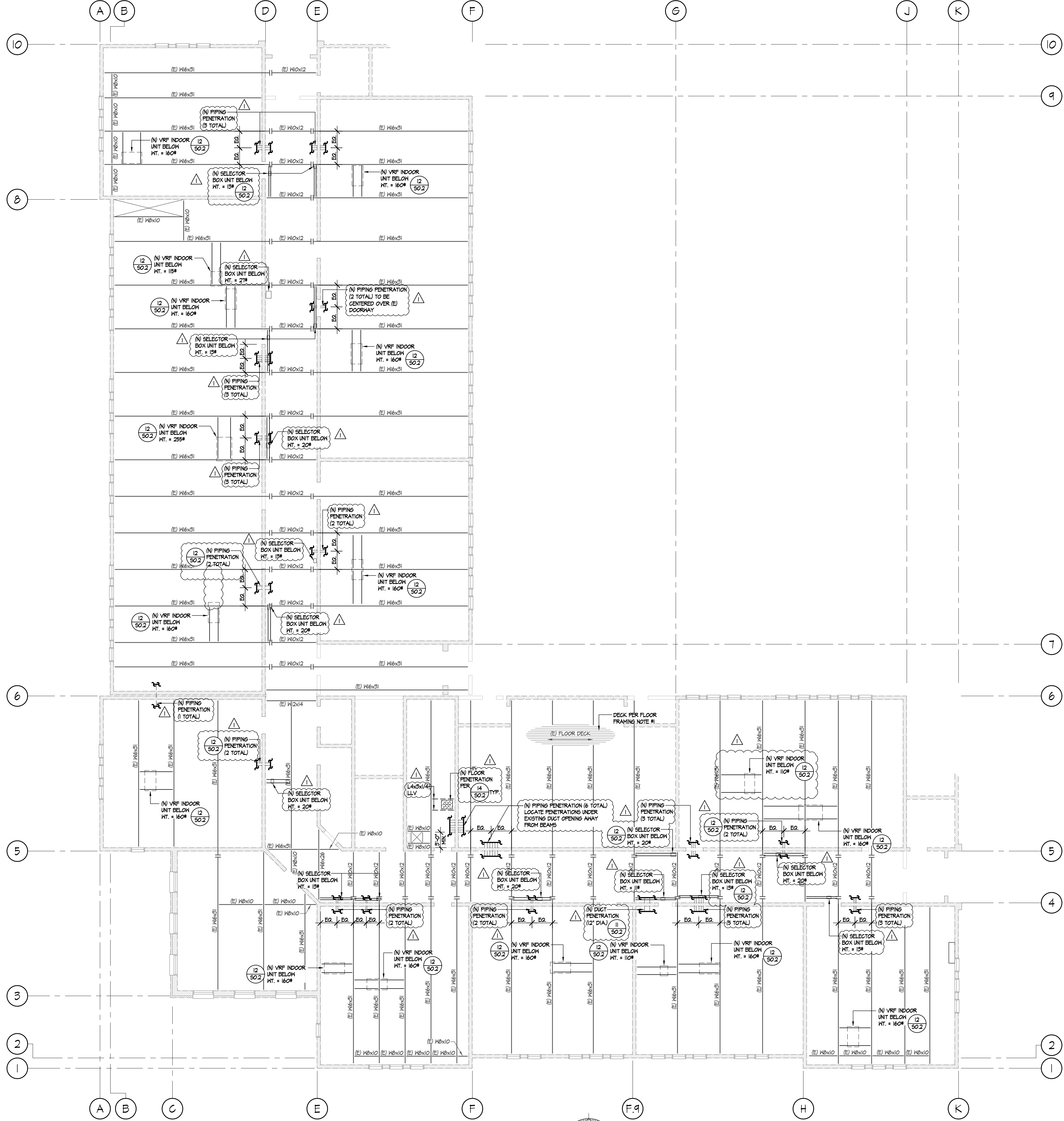
BLDG. 'E' ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"



NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1

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DATE: 12/08/2020 **SCALE:** N.T.S.
PROJECT NUMBER: 1917000

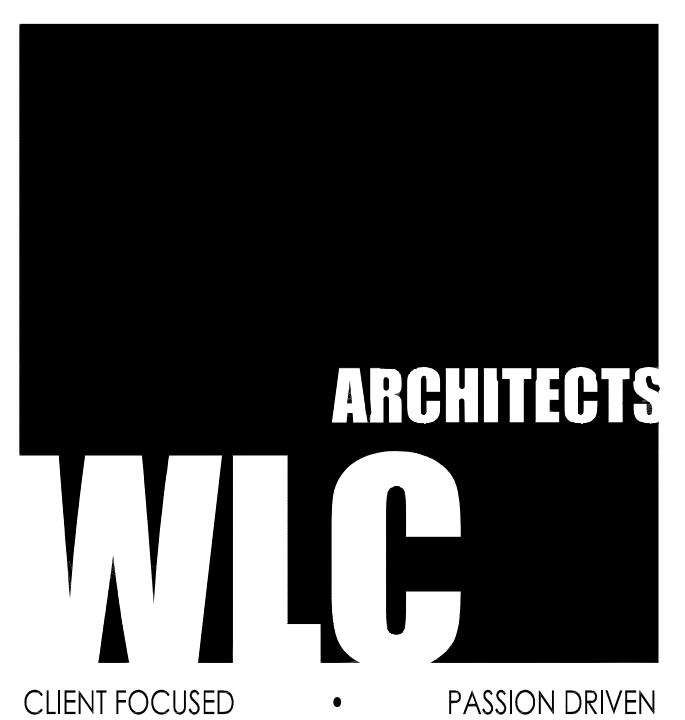
**BUILDING E
ROOF FRAMING
REMODEL PLAN**
DRAWING NUMBER: S2.13



BLDG. 'F' SECOND FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"

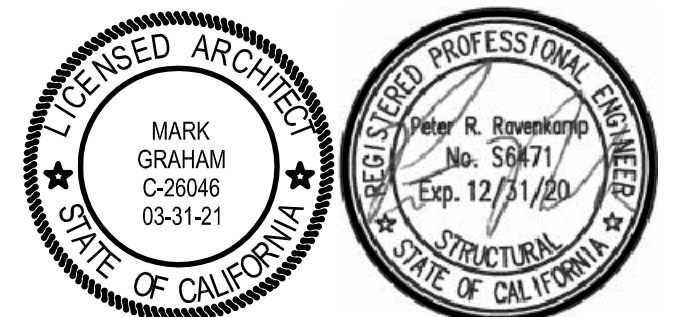
SECOND FLOOR FRAMING NOTES

1. 5 1/4" LT. MT. CONC. SLAB W/ FIBER MESH W/ #4 @ 24" O.C. EA. WAY OVER 3"x16 GA. WB FORMLOK (GALV) DECK BY VERGO MANUFACTURING CO. & 1/4" TOTAL THICKNESS (APPROX-217) QUANTITY OF FIBER MESH IN CONC. PER CONC. NOTE.
2. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
3. HANG UNITS SHOULD BE FRAMED PER DETAIL 12/50.3
4. FLOOR PENETRATIONS SHOULD BE FRAMED PER DETAIL 9/50.4
5. (E) INTERIOR NON-BEARING STUD WALLS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
6. THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.



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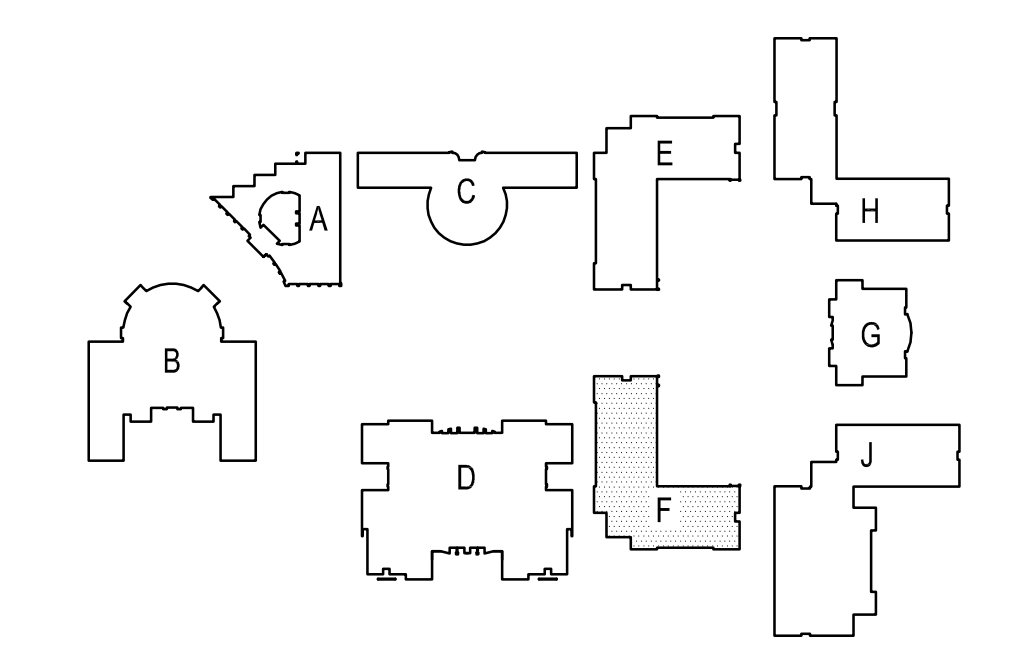
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NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1

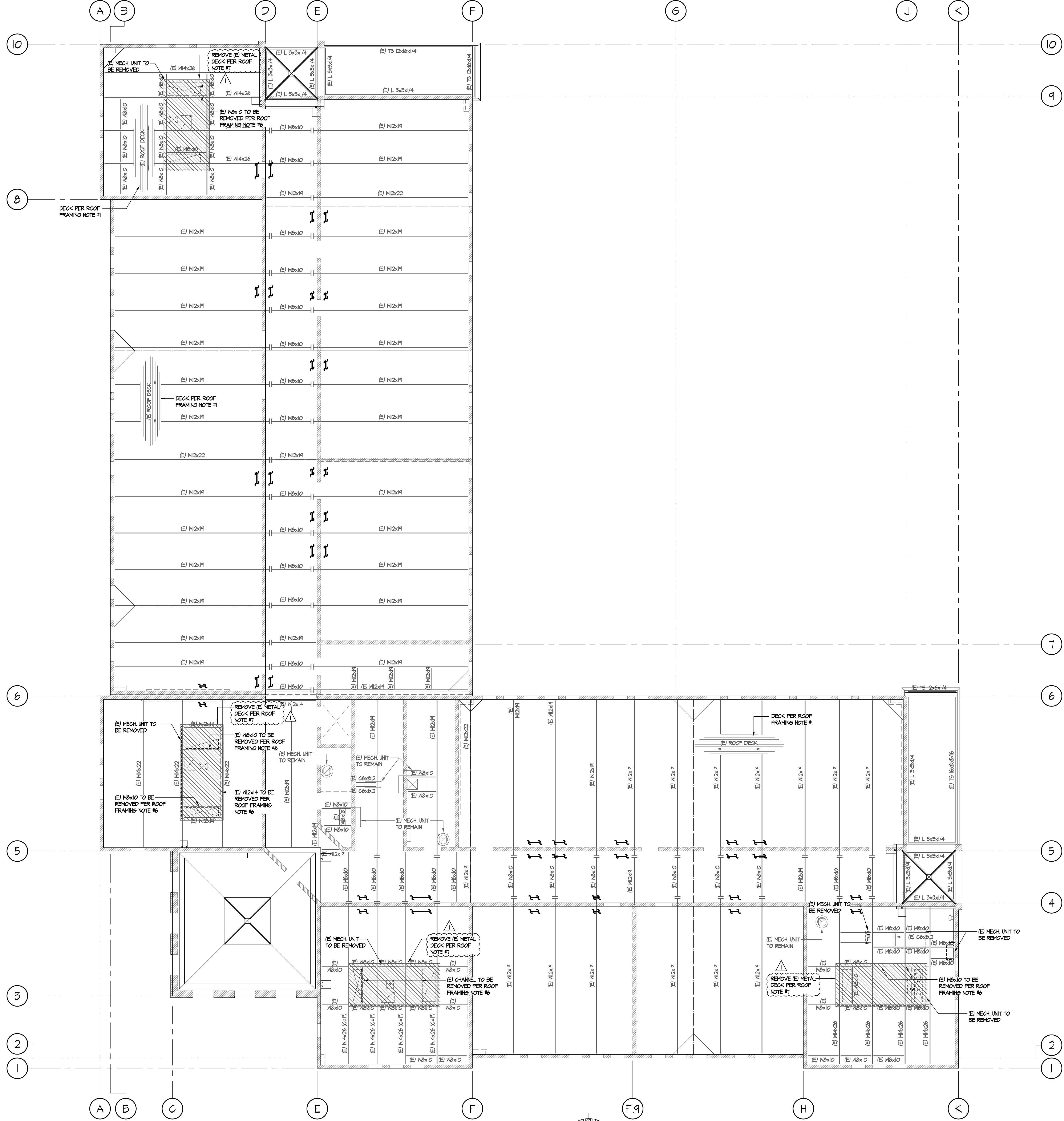
DRAWN:	CHECKED:
DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

**BUILDING F
SECOND FLOOR
FRAMING PLAN**

DRAWING NUMBER: **S2.14**



SITE KEY PLAN



BLDG. 'F' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"

- ### ROOF FRAMING DEMO NOTES
- 1 1/2" DEEP 18 GA. VERCO HB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL 15/50.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
 - EXISTING DECKING TO BE REMOVED AS REQUIRED TO REMOVE DEMO'D FRAMING AND INSTALL NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE.



Attachment
C

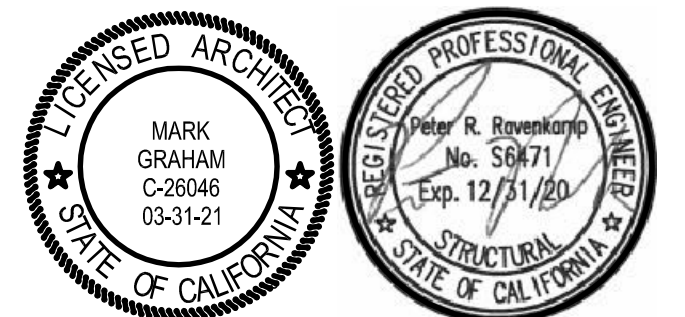
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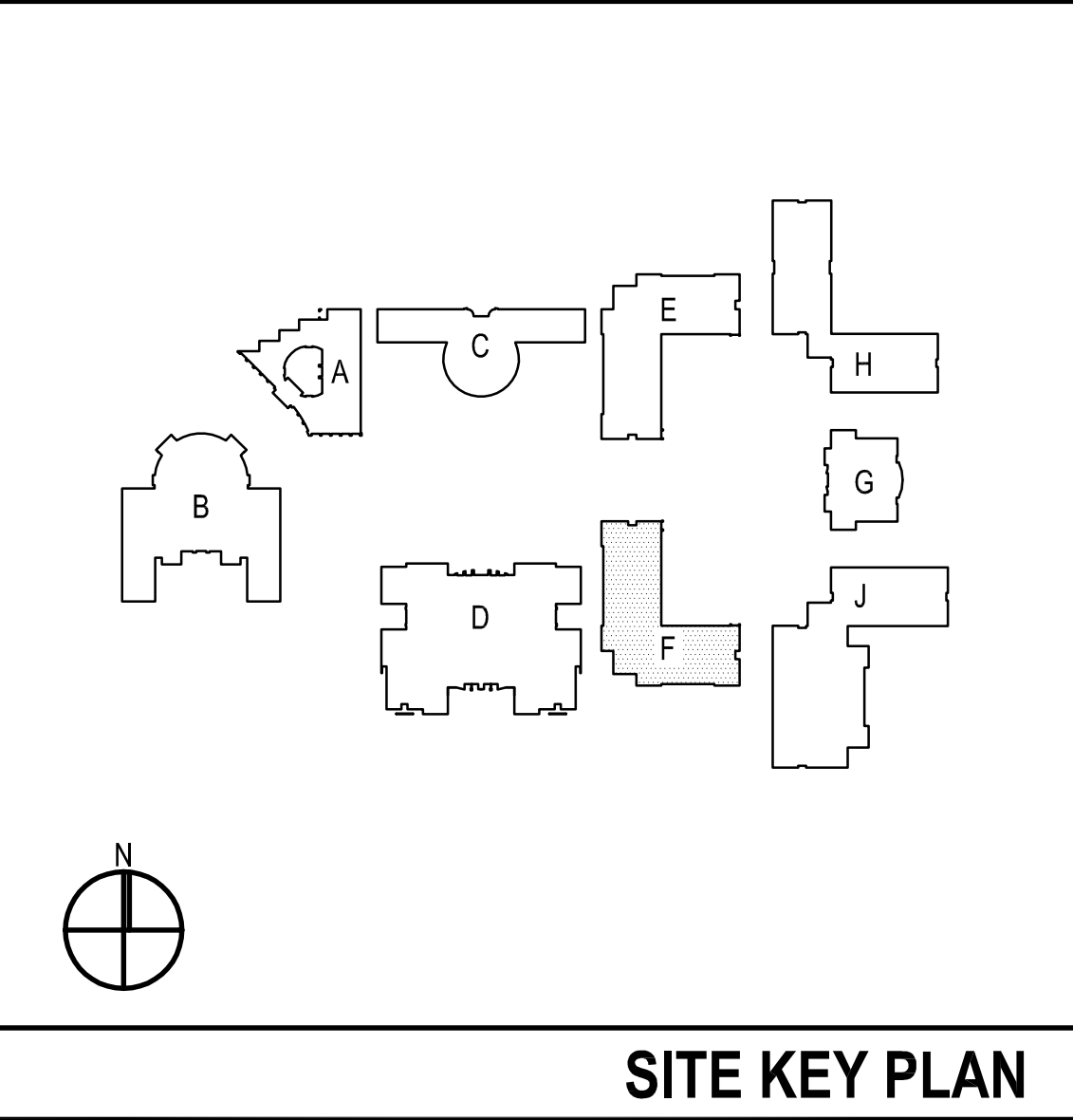
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JOB NO.: 201907

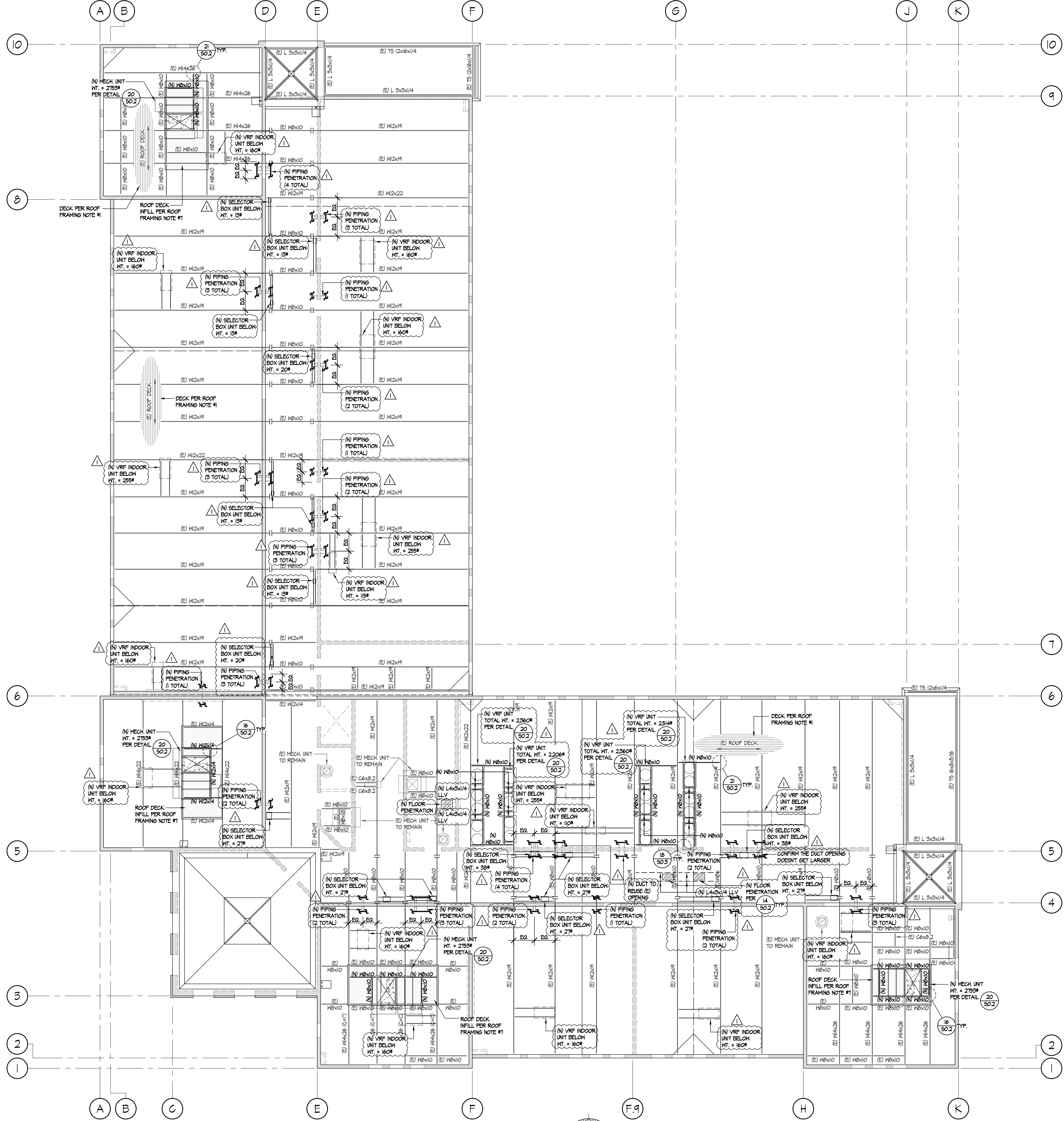
NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1

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DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

**BUILDING F
ROOF FRAMING
DEMO PLAN**

DRAWING NUMBER: **S2.15**



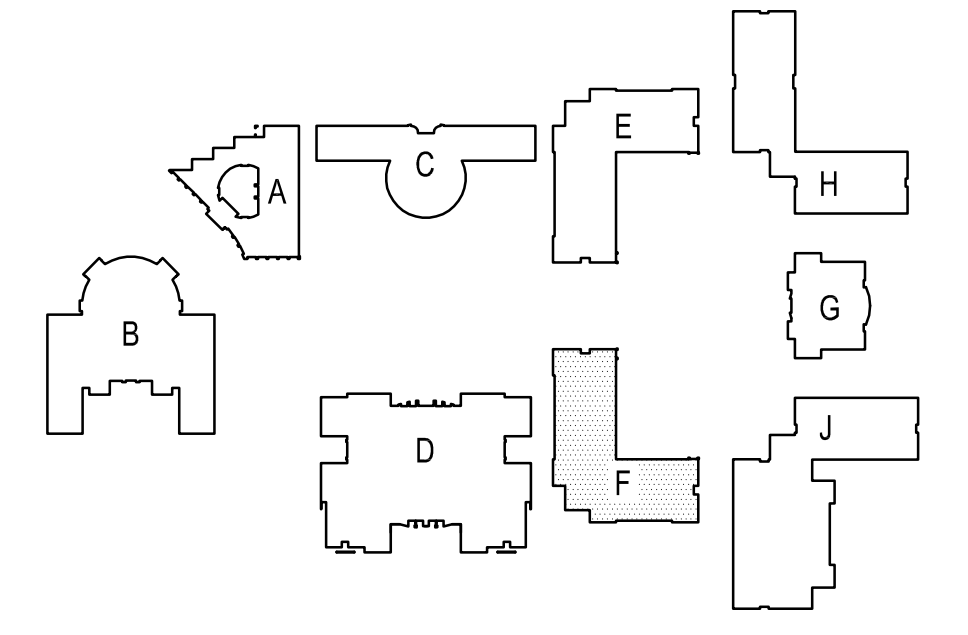
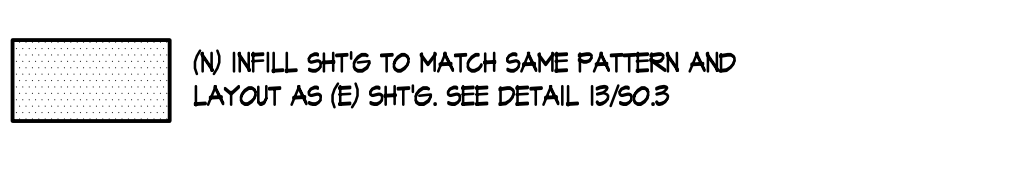


BLDG. 'F' ROOF FRAMING REMODEL PLAN
 SCALE: 1/8"=1'-0"
 W N E
 S

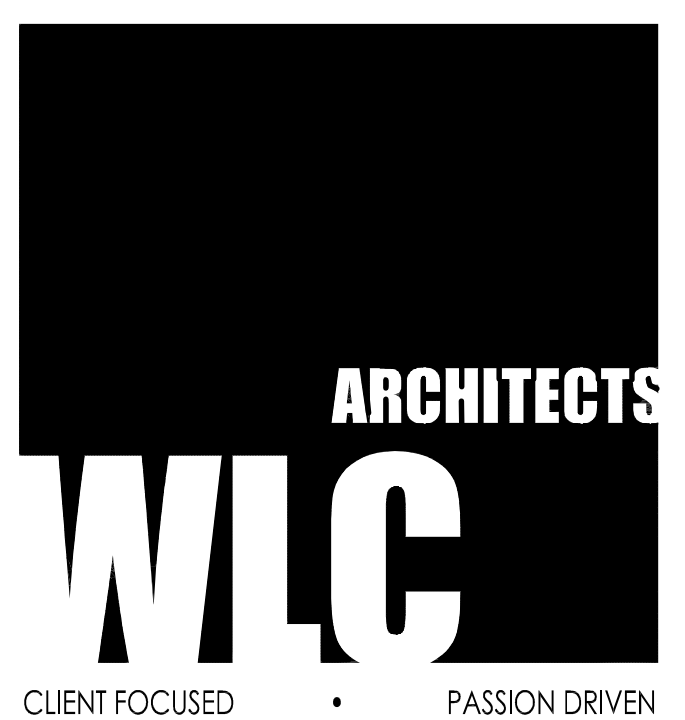
ROOF FRAMING REMODEL NOTES

- 1/2" DEEP 20 GA. VERCO H50-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM HELD 1/2" LONG @ 12" O.C.
- NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
- INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS.
- BEAMS LABELED AS 'STRICT' TO REMAIN IN PLACE.
- (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 12/502 OR 15/503.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 15/503. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION. (N) DECK INFILL TO BE ORIENTED THE SAME DIRECTION AS THE EXISTING.
- REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 15/502.
- THE SUPPORT OF THE MECHANICAL UNITS, EXHAUST FANS, CONDENSING UNITS, ETC. AS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS.
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- THE CONTRACTOR SHALL COORDINATE (N) WALL PENETRATIONS WITH THE INSTALLATION OF (N) BEAMS PRIOR TO FABRICATION AND INSTALLATION OF THE STEEL BEAMS.

HATCH LEGEND

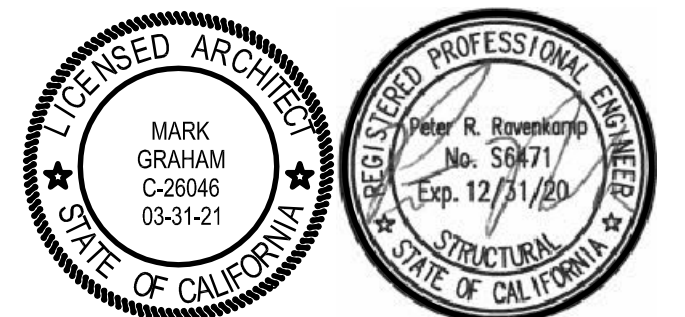


SITE KEY PLAN



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REVISIONS			

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**BUILDING F
 ROOF FRAMING
 REMODEL PLAN**

DRAWING NUMBER: **S2.16**



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1	8/25/20	JV	ADDENDUM 1

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DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

BUILDING H
ROOF FRAMING
DEMO PLAN

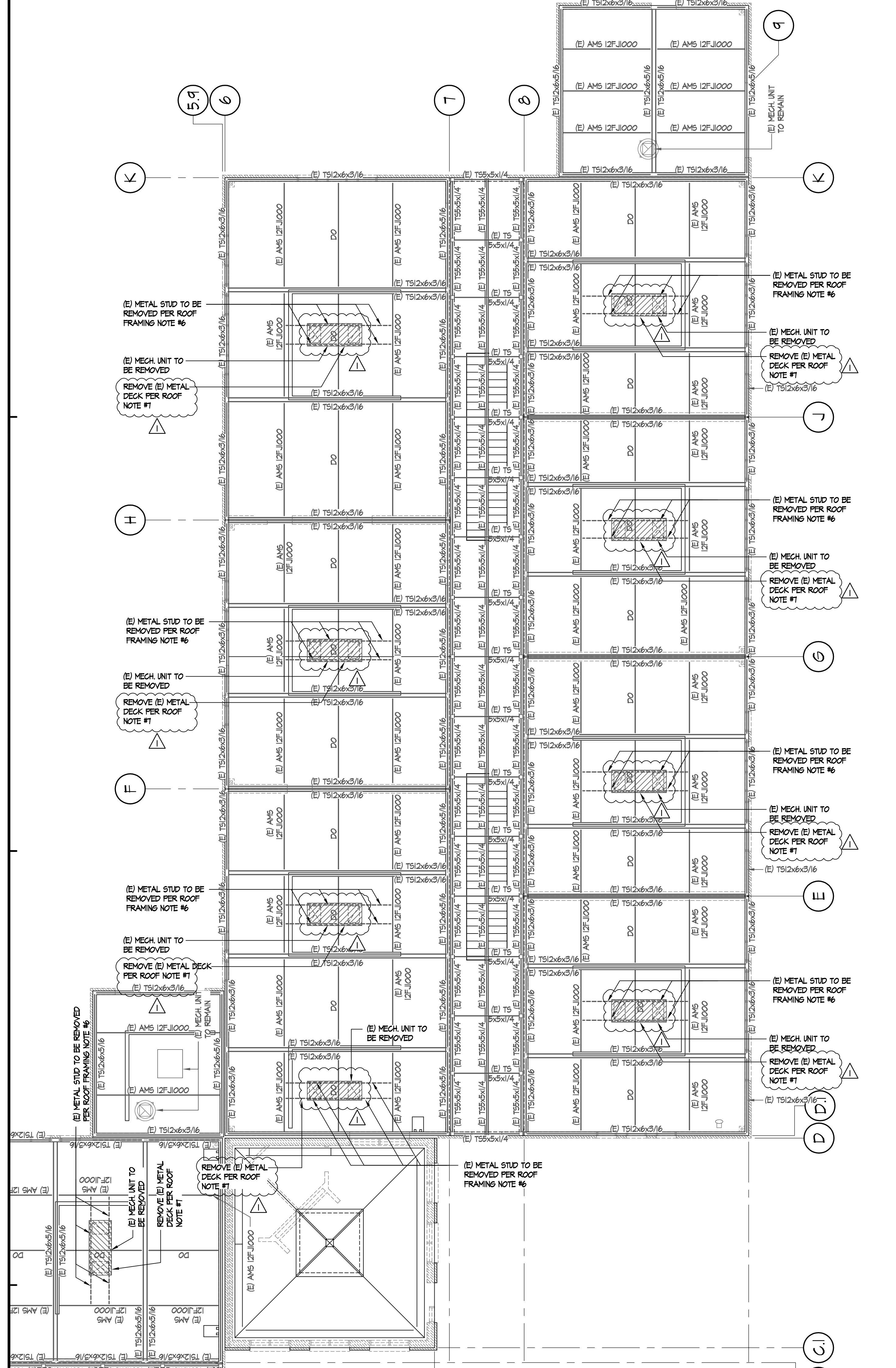
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ROOF FRAMING DEMO NOTES

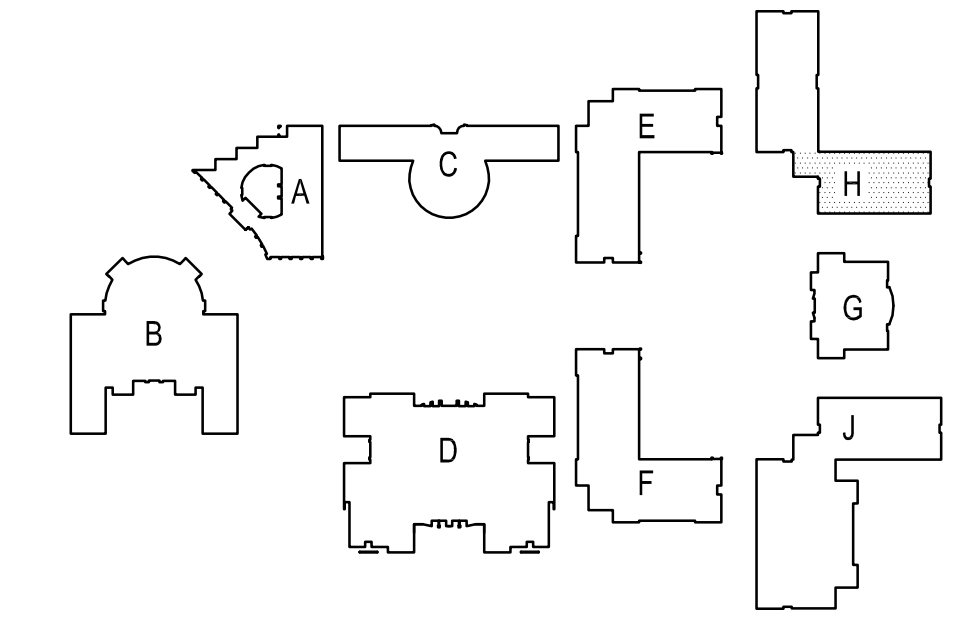
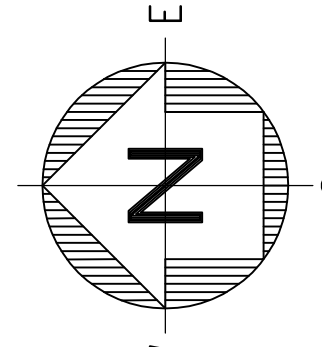
- 1 1/2" DEEP 18 GA. VERGO HB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1 1/2" LONG @ 12" O.C.
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- INTERIOR NON-BEARING STD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
- BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- REMOVE (E) JOISTS & REPAIR (E) DECK PER DETAIL 15/50.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
- REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE.

DEMO HATCH LEGEND

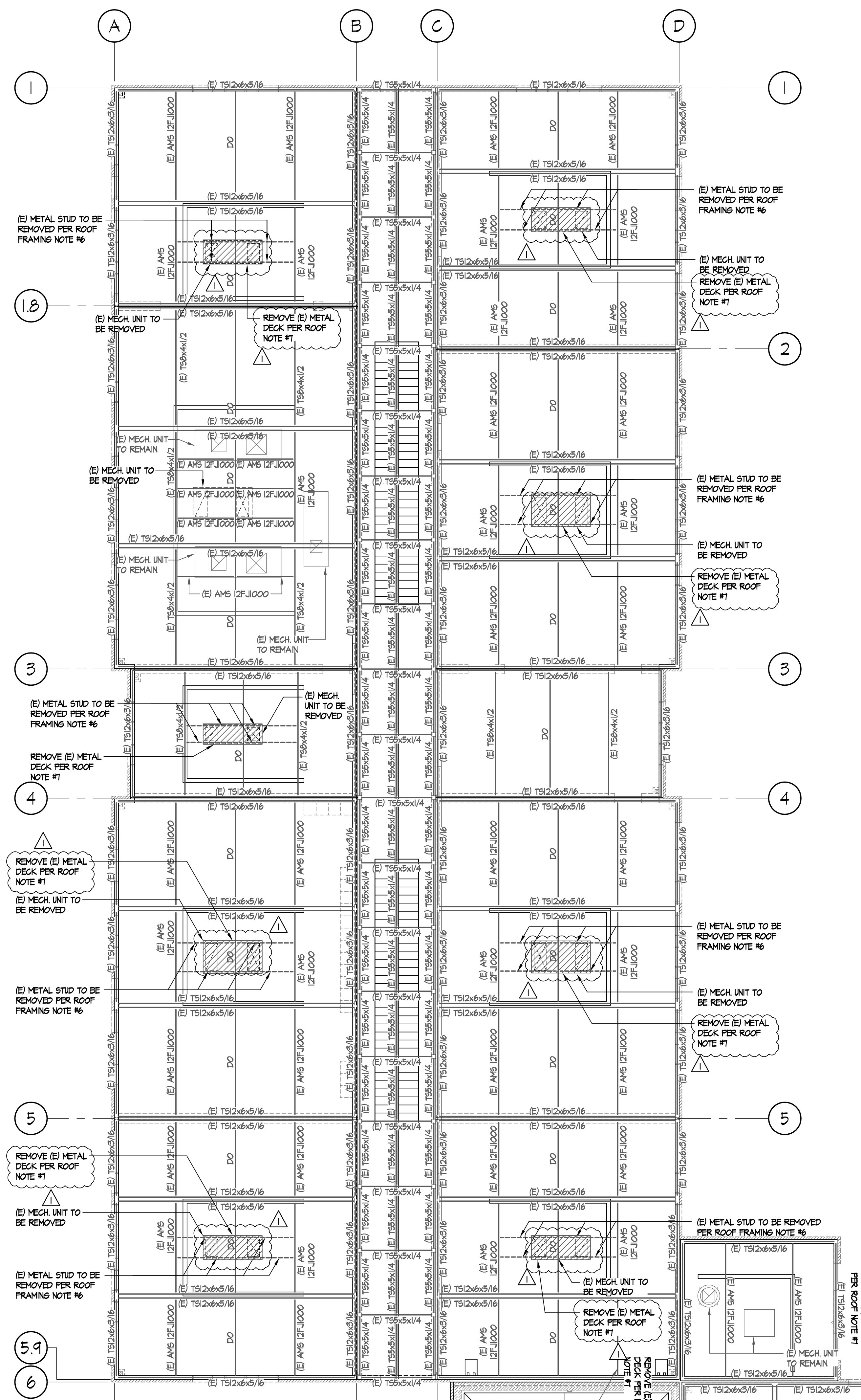
(N) FILL SHITG TO MATCH SAME PATTERN AND LAYOUT AS (E) SHITG. SEE DETAIL 15/50.3



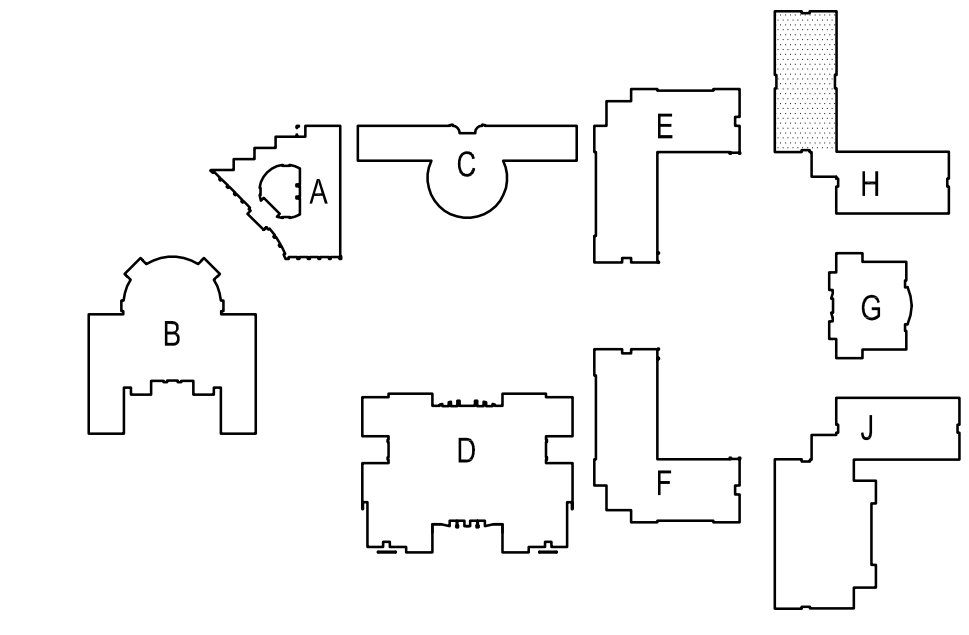
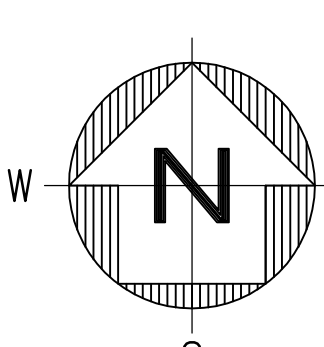
BLDG. 'H' AREA 'B' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



SITE KEY PLAN



BLDG. 'H' AREA 'A' ROOF FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



SITE KEY PLAN



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DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

**BUILDING H
ROOF FRAMING
REMODEL PLAN**

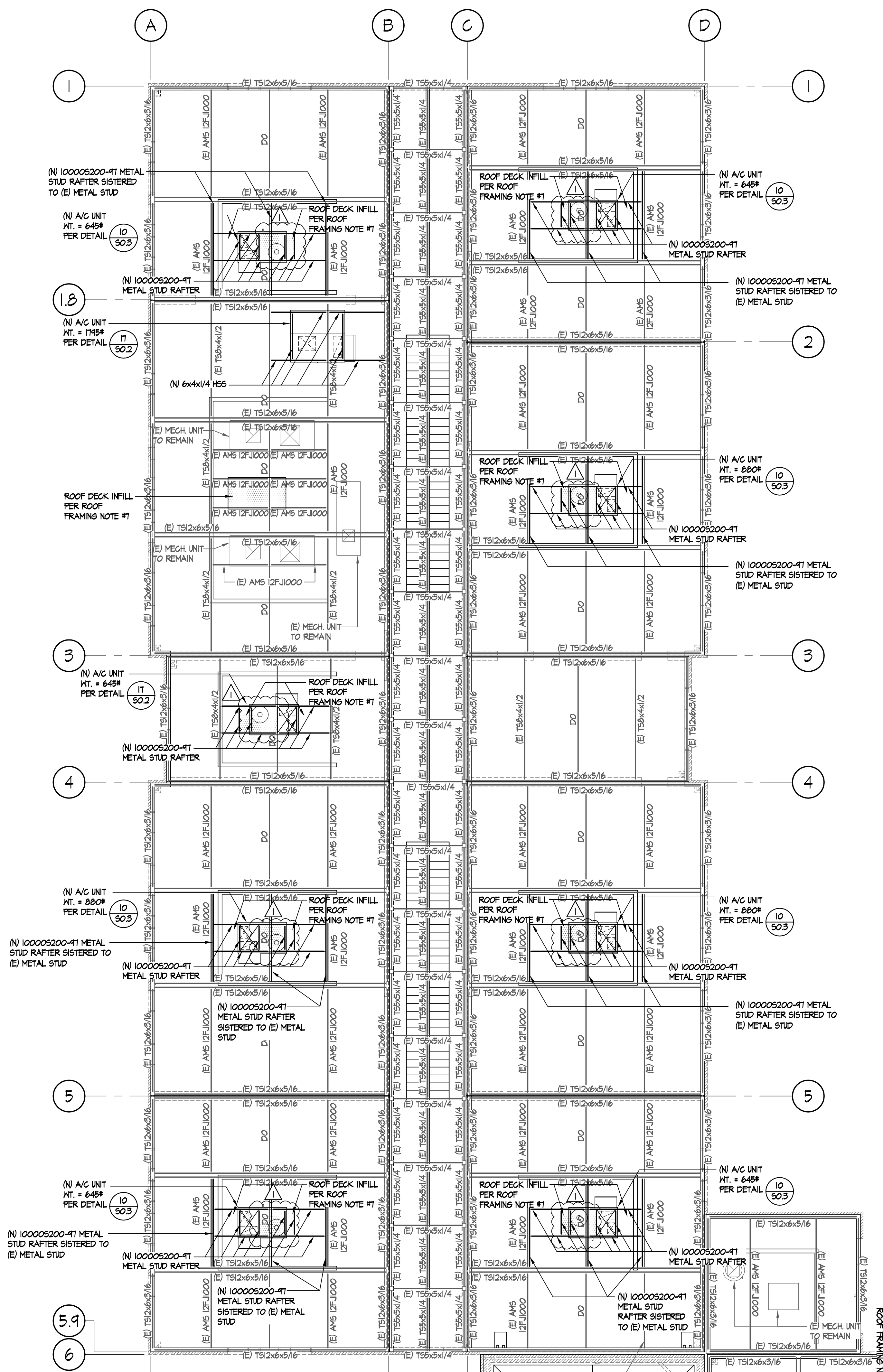
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ROOF FRAMING REMODEL NOTES

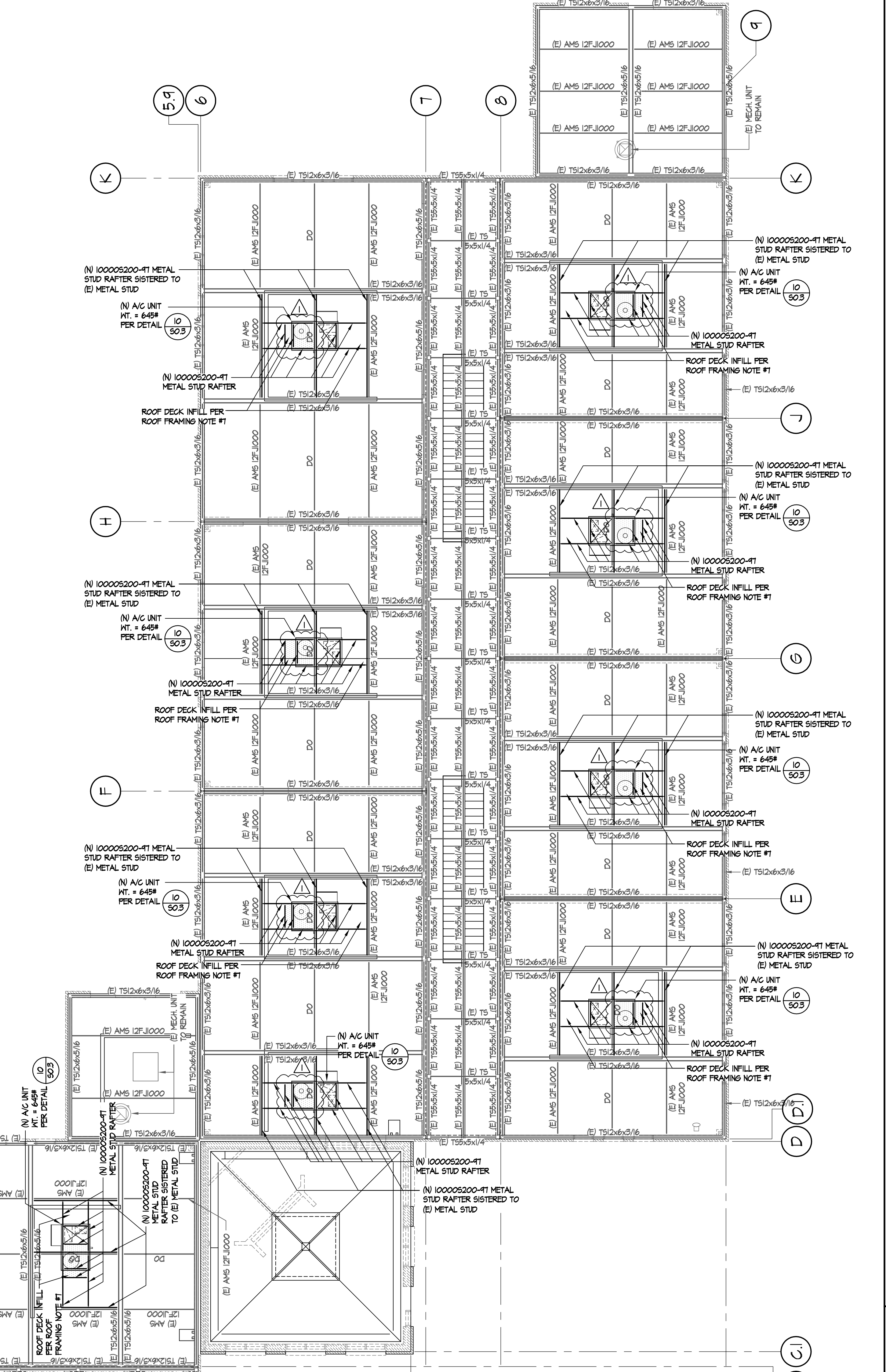
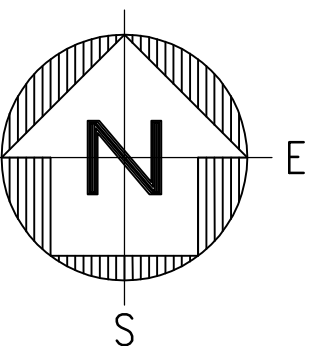
- 1 1/2" DEEP 18 GA. VERCO HB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1 1/2" LONG @ 12" O.C.
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- (E) INTERIOR NON-BEARING STD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
- BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
- (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 14/50.2
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 19/50.3. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION.
- REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 14/50.3.

HATCH LEGEND

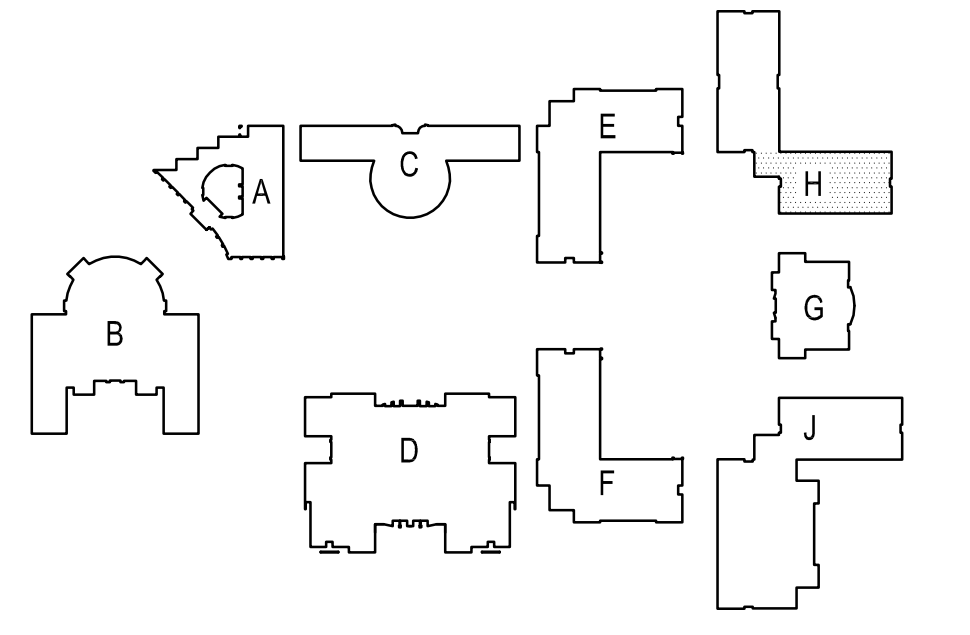
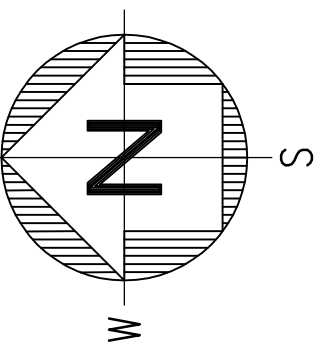
(N) INFILL SHITG TO MATCH SAME PATTERN AND LAYOUT AS (E) SHITG. SEE DETAIL 19/50.3



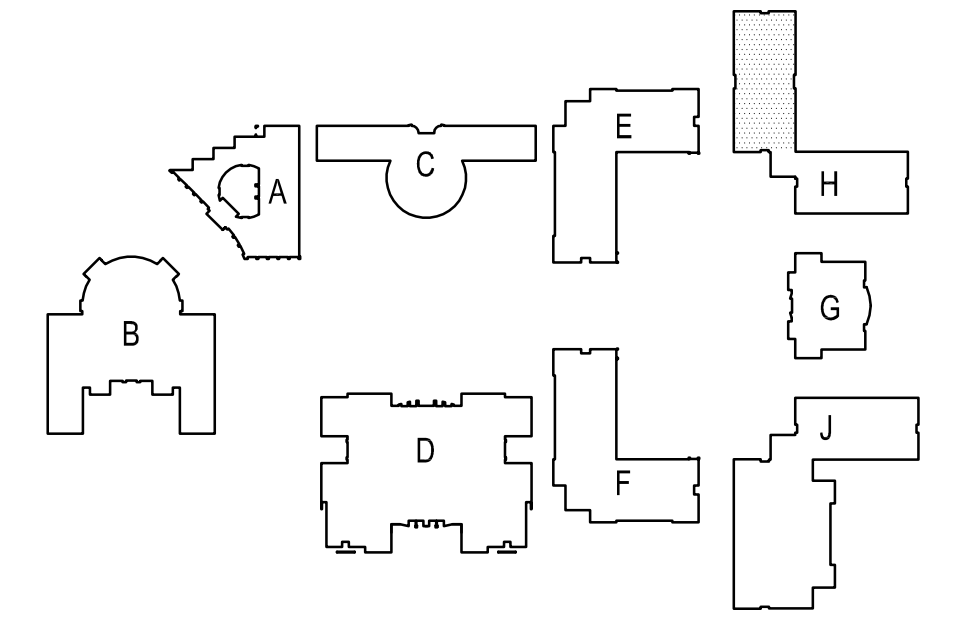
BLDG. 'H' AREA A ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"



BLDG. 'H' AREA B ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"



SITE KEY PLAN



SITE KEY PLAN

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JOB NO.: 201920

1	8/25/20	JV	ADDENDUM 1
NO	DATE	BY	DESCRIPTION

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PROJECT NUMBER: 1917000	

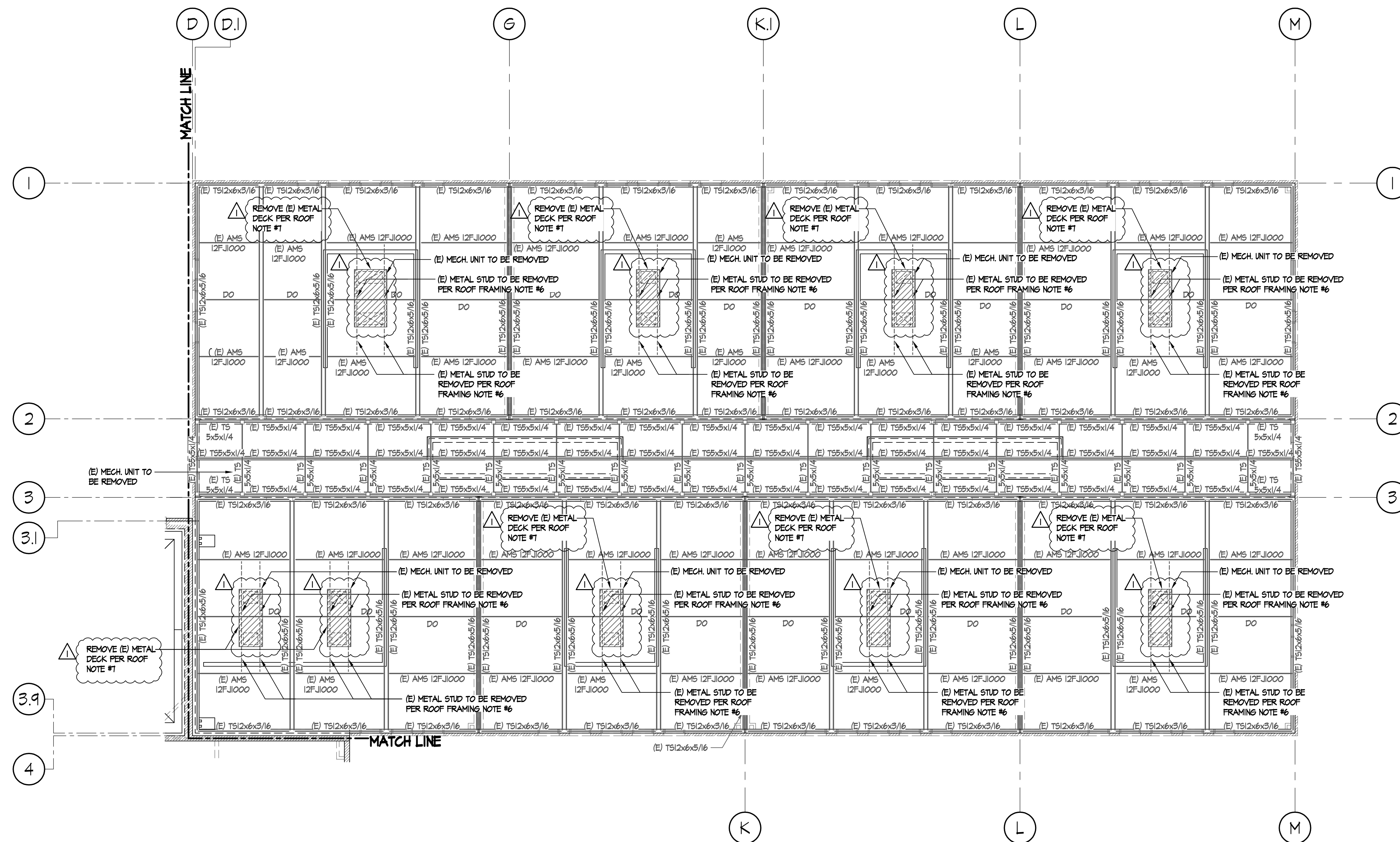
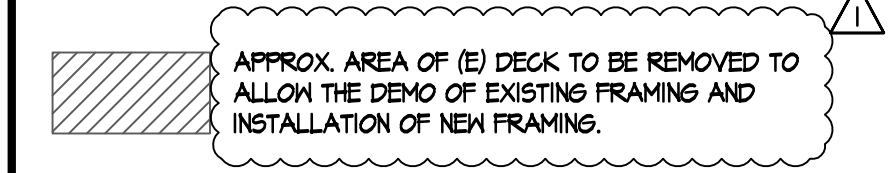
**BUILDING J AREA A
ROOF FRAMING
DEMO PLAN**

DRAWING NUMBER: **S2.19**

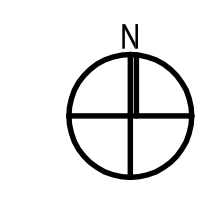
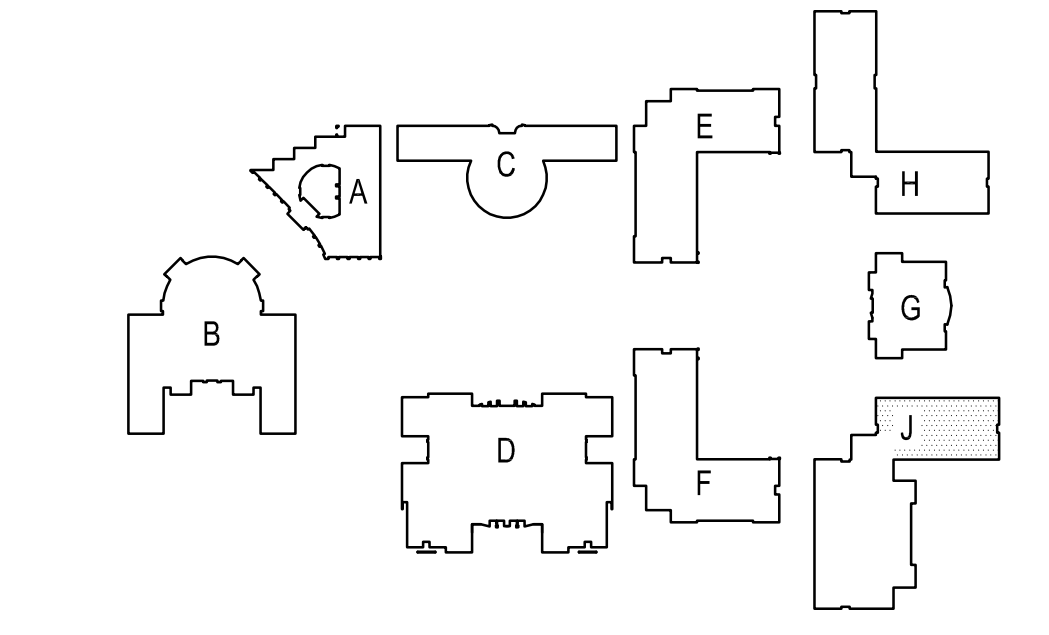
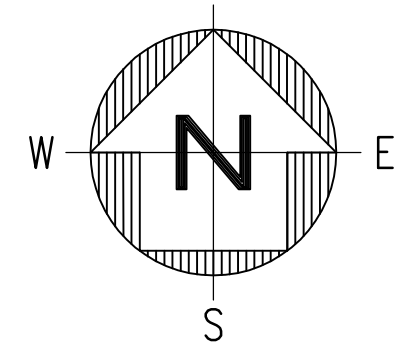
ROOF FRAMING DEMO NOTES

- 1/2" DEEP 18 GA. VERCO HB-36 GALV. STL. DECK W/ 5/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM HELD 1/2" LONG @ 12" O.C.
- NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
- INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
- BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN PER MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WANT TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL 15/50.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
- REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE.

DEMO HATCH LEGEND



**BLDG. 'J' AREA 'A' ROOF
FRAMING DEMO PLAN**
SCALE: 1/8"=1'-0"



SITE KEY PLAN

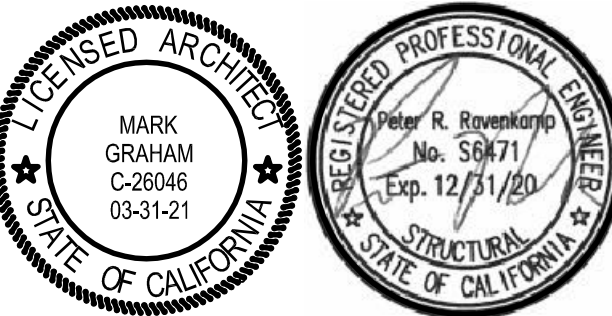
ARCHITECTS

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JOB NO.: 2019207

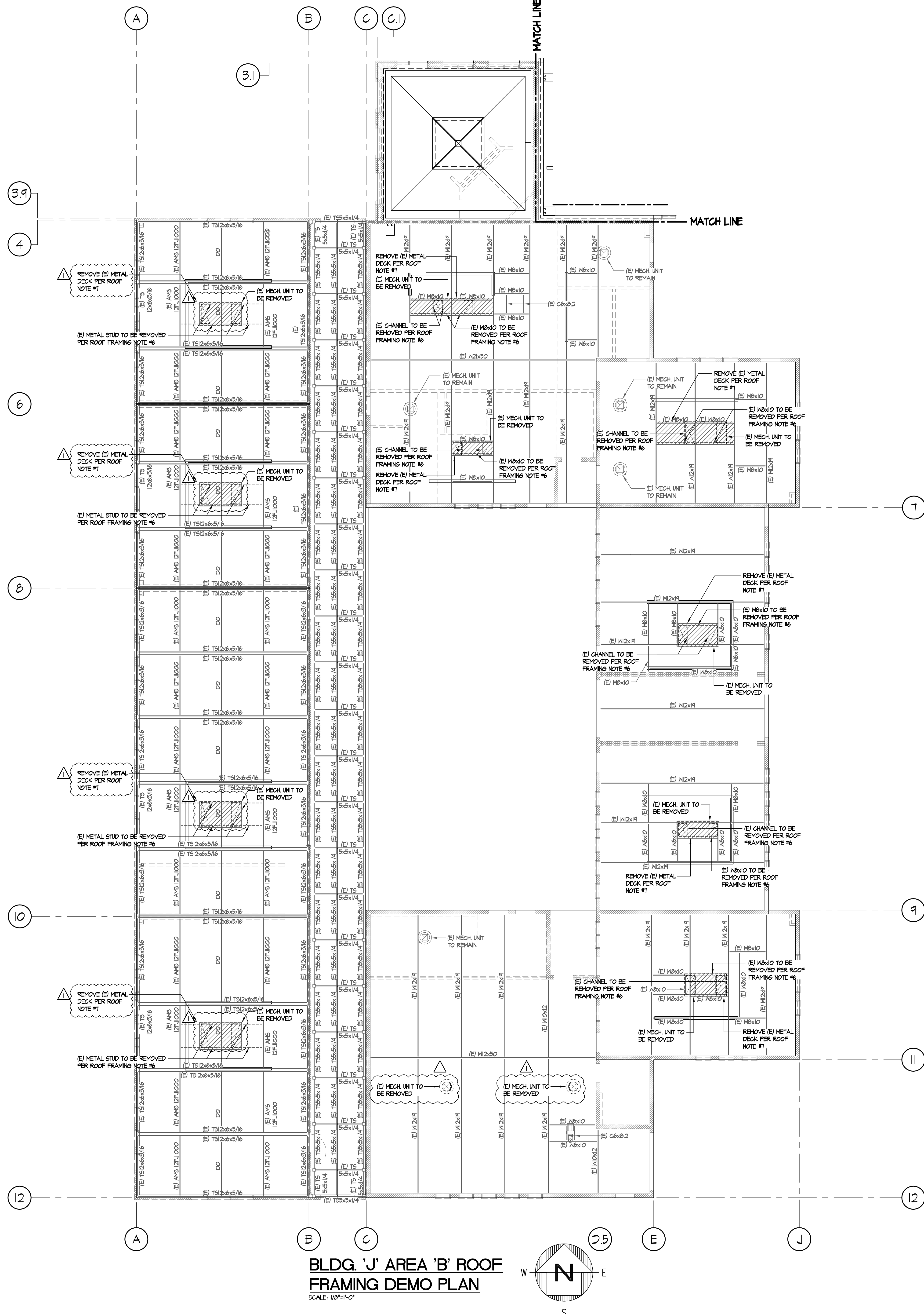
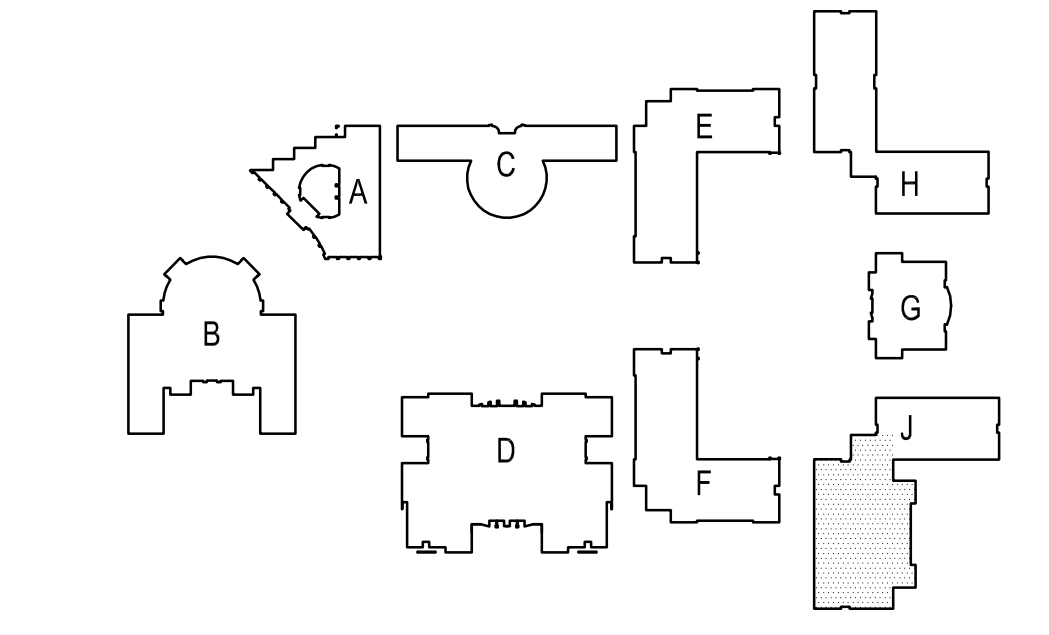
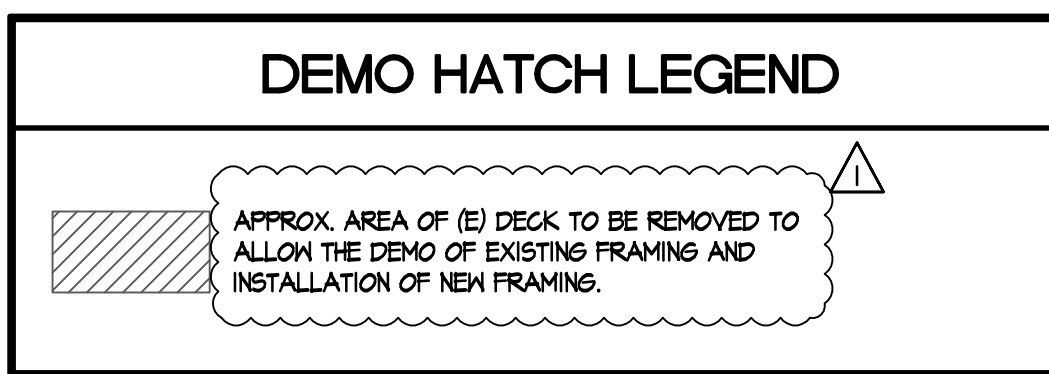
NO	DATE	BY	DESCRIPTION
1	8/25/20	JV	ADDENDUM 1
REVISIONS			

DRAWN:	CHECKED:
DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

BUILDING J AREA B
ROOF FRAMING
DEMO PLAN

DRAWING NUMBER: S2.20

- ### ROOF FRAMING DEMO NOTES
- 1 1/2" DEEP 18 GA. VERCO HB-36 GALV. STL. DECK W/ 5/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM HELD 1 1/2" LONG @ 12" O.C.
 - NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
 - BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
 - THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS BEEN DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
 - REMOVE (E) BEAMS & REPAIR (E) DECK PER DETAIL 15/50.2. (E) BEAM CONNECTION SHEAR PLATE MAY REMAIN.
- REMOVE DECK ENTIRELY AS SHOWN TO ALLOW THE DEMO OF EXISTING FRAMING AND INSTALLATION OF NEW FRAMING. EXISTING DECK TO BE REMOVED FROM BEAM TO BEAM. NO DECK OVERHANGS OR UNSUPPORTED DECK EDGES ARE ACCEPTABLE.



BLDG. 'J' AREA 'B' ROOF
FRAMING DEMO PLAN
SCALE: 1/8"=1'-0"



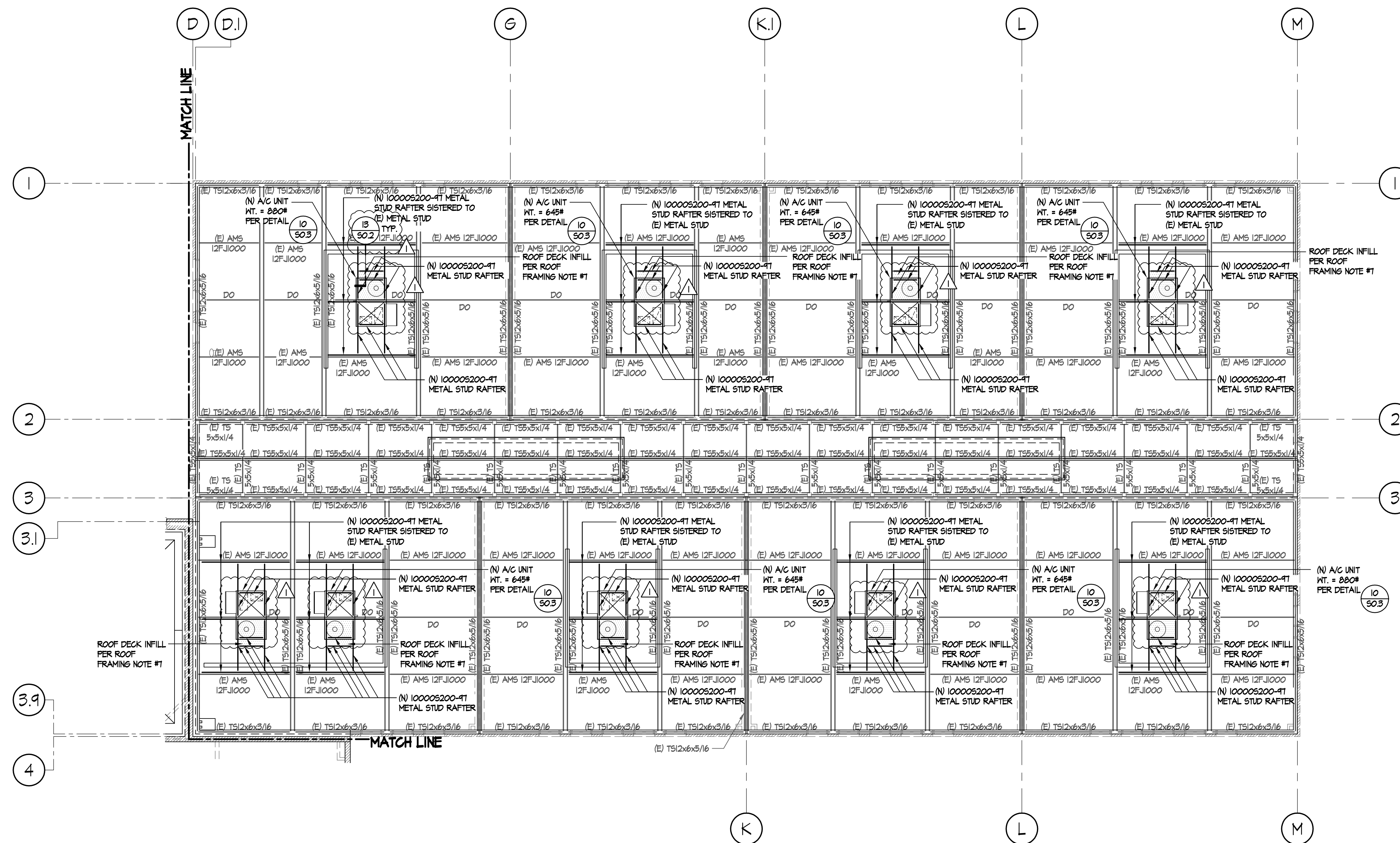
CONSULTANT
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JOB NO.: 201902

ROOF FRAMING REMODEL NOTES

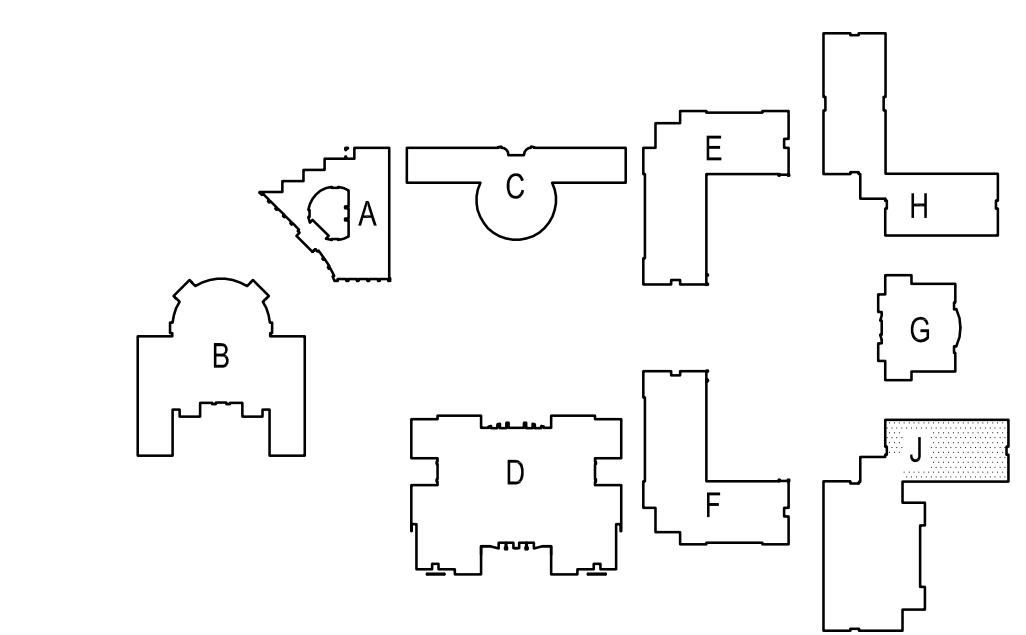
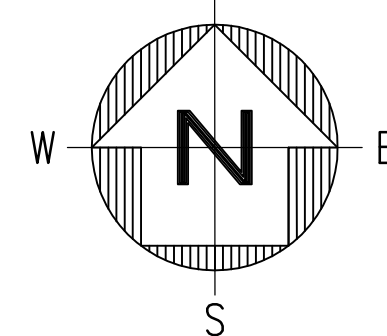
- 1 1/2" DEEP 20 GA. VERCO HSB-36 GALV. STL. DECK W/ 3/4" EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP SEAM WELD 1 1/2" LONG @ 12" O.C.
- NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
- (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
- BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
- (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 19/50.2
- THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
- PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 19/50.3. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION.
- REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 19/50.3.

HATCH LEGEND

(N) INFILL SHITG TO MATCH SAME PATTERN AND LAYOUT AS (E) SHITG. SEE DETAIL 19/50.3



**BLDG. 'J' AREA 'A' ROOF
FRAMING REMODEL PLAN**
SCALE: 1/8"=1'-0"



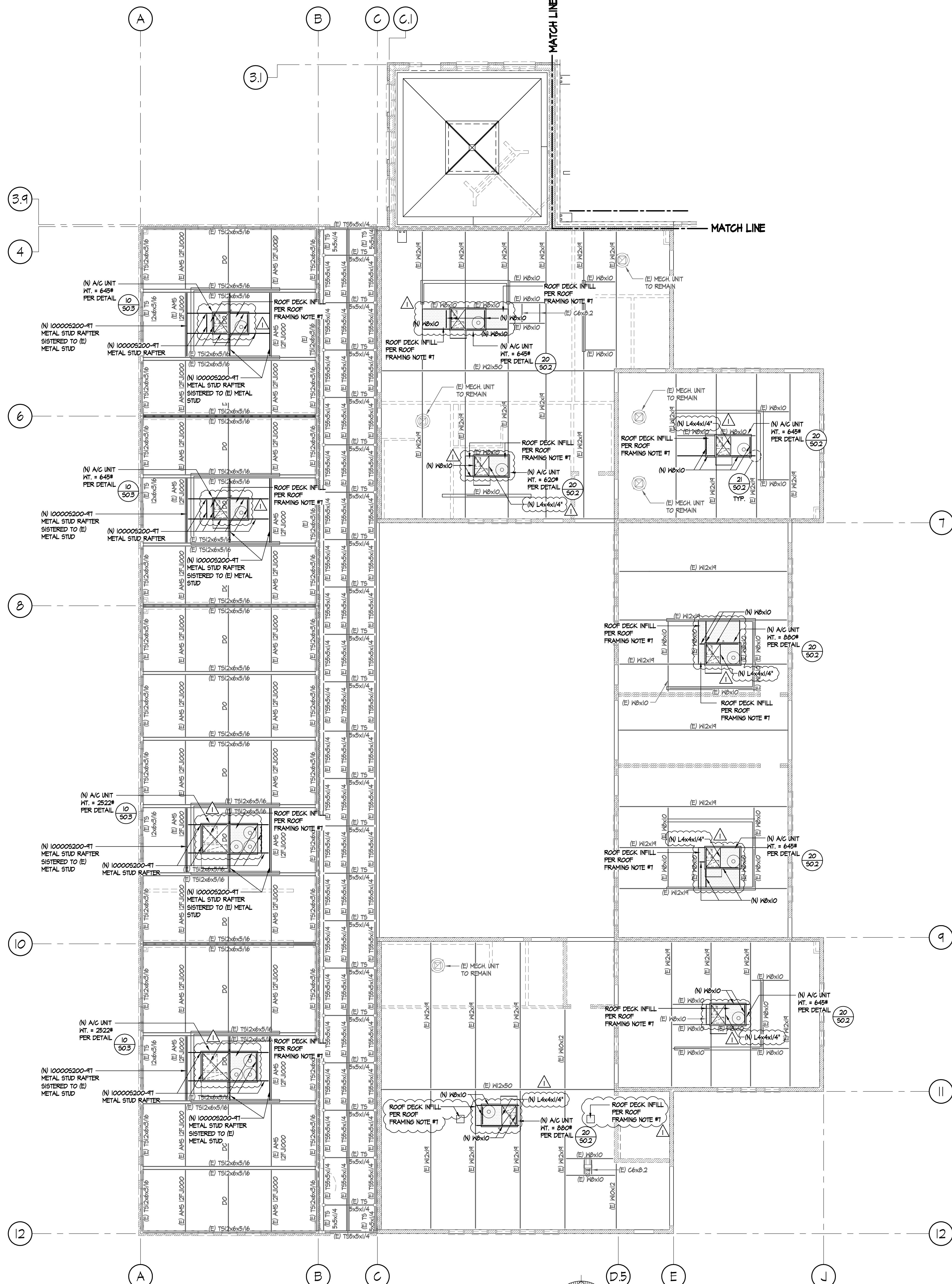
SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
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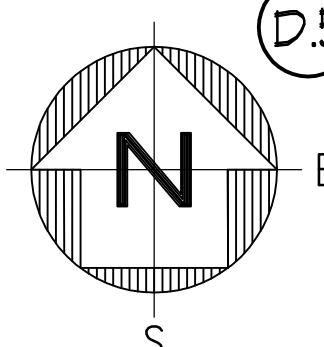
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DATE: 12/08/2020	SCALE: N.T.S.
PROJECT NUMBER: 1917000	

**BUILDING J AREA A
ROOF FRAMING
REMODEL PLAN**

DRAWING NUMBER: **S2.21**



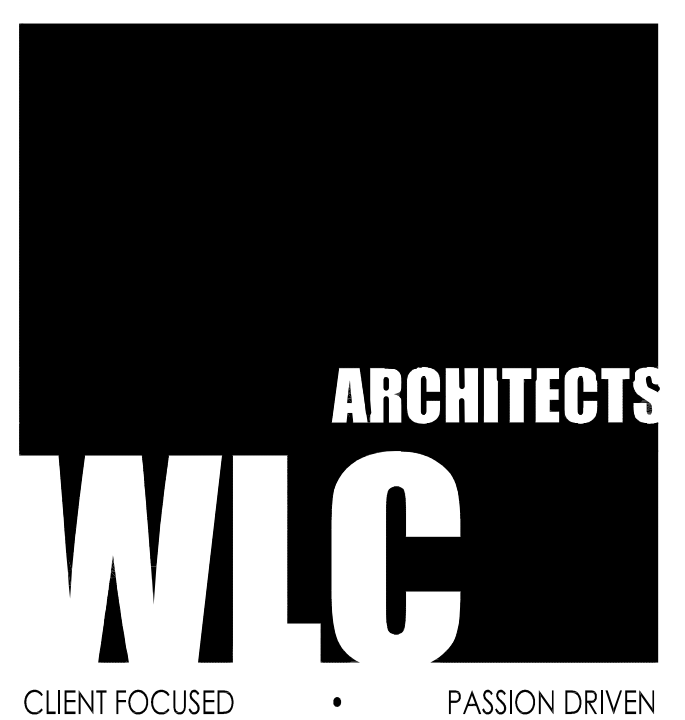
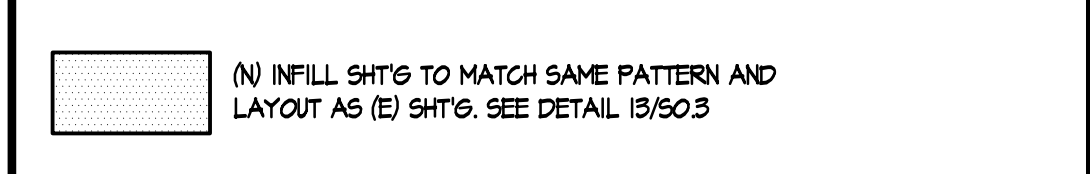
BLDG. 'J' AREA 'B' ROOF FRAMING REMODEL PLAN
SCALE: 1/8"=1'-0"



ROOF FRAMING REMODEL NOTES

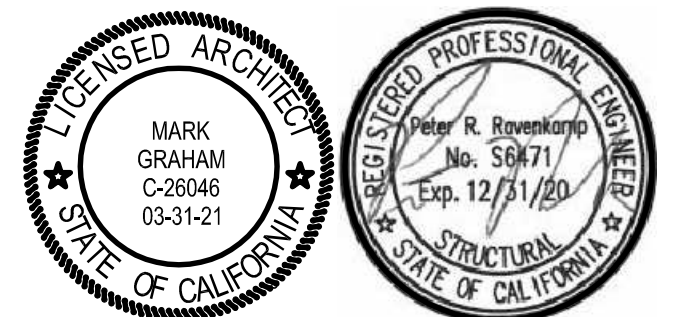
1. 1 1/2" DEEP 20 GA. VERCO H50-36 GALV. STL. DECK W/ 3/4" Ø EFFECTIVE PUDDLE WELD @ 12" O.C. AND AT EA. LON FLUTE. ATTACH SEAMS W/ TOP BEAM WELD 1 1/2" LONG @ 12" O.C.
2. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
3. (E) INTERIOR NON-BEARING STUD WALLS AND SOFFITS TO BE DEMO'D AS NECESSARY TO INSTALL (N) BEAMS/SUPPORTS
4. BEAMS LABELED AS 'STRUT' TO REMAIN IN PLACE.
5. (N) ROOF PENETRATIONS SHOULD BE FRAMED PER DETAIL 19/502
6. THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.
7. PROVIDE (N) DECK INFILL WITH INSULATION TO MATCH (E) AT LOCATIONS WHERE (E) UNITS ARE BEING REMOVED AND LEAVES AN OPENING IN THE ROOF. (N) DECK INFILL PER DETAIL 19/503. SEE ARCH. & MECH. DRAWINGS FOR REMAINING INFORMATION.
8. REMOVE (E) BEAMS AND REPAIR (E) DECK PER DETAIL 19/503.

HATCH LEGEND



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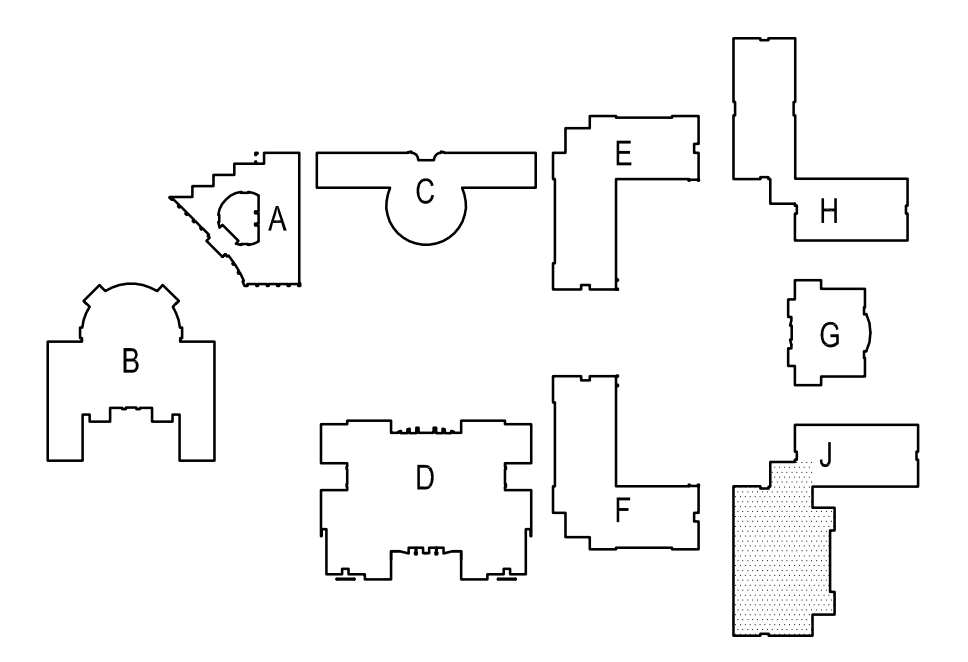
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1	8/25/20	JV	ADDENDUM 1

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**BUILDING J AREA B
ROOF FRAMING
REMODEL PLAN**

DRAWING NUMBER: **S2.22**



SITE KEY PLAN

VRF MODULAR OUTDOOR UNIT SCHEDULE

NOTES:
1. UNITS SHALL BE SELECTED FOR DESIGN COOLING LOAD.
2. COORDINATE ELECTRICAL CONNECTIONS WITH MANUFACTURER. EACH MODULE REQUIRES A SEPARATE ELECTRICAL CONNECTION AND DISCONNECT.
3. NOMINAL COOLING CAPACITY RATED AT INDOOR TEMP = 80°F DB/67°F WB, OUTDOOR TEMP = 95°F DB.
4. DESIGN COOLING CAPACITY SHALL BE RATED AT INDOOR TEMP = 74°F DB/61°F WB, OUTDOOR TEMP = 95°F DB. EFFECTS OF ESTIMATED REFRIGERANT LINE LENGTH SHALL BE INCLUDED IN COMPUTING DESIGN CAPACITY.
5. DESIGN HEATING CAPACITY SHALL BE RATED AT INDOOR TEMP = 70°F DB, OUTDOOR TEMP = 14°F DB. EFFECTS OF ESTIMATED REFRIGERANT LINE LENGTHS AND DEFROSTING SHALL BE INCLUDED IN COMPUTING DESIGN CAPACITY.
6. REFER TO SPECIFICATION SECTION 23.81.45 FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE MARINE COATING PER SPECIFICATION 23.81.45, SECTION 2.4.

Table with columns: TAG NAME, AREA SERVED, REFRIGERANT, MAX. CHARGE, COOLING, HEATING, CONNECTION, PHASES, MODULE 1 (MCA, MOCP), MODULE 2 (MCA, MOCP), MODULE 3 (MCA, MOCP), SCRR, WEIGHT (MODULE 1, 2, 3, TOTAL), MANUFACTURER, MODEL, ANCHORAGE, NOTES.

VRF INDOOR UNIT SCHEDULE

NOTES:
1. INDOOR UNITS SELECTED FOR SPACE PEAK LOADS.
2. PROVIDE DRY FILTER FOR ROOM UNITS. FILTER MAY BE INTEGRAL OR SUITABLE FOR FIELD INSTALLATION IN FABRICATED FILTER ANGLES. FILTER ANGLES PROVIDED BY M.C.
3. COMPLETE WITH CONDENSATE PUMP, DIVERSIFIED CONTROL SYSTEM, AND CONDENSATE OVERFLOW SWITCH.
4. REFER TO PIPING DIAGRAM FOR CONTROLS.
5. INDOOR UNIT CAPACITY SHALL BE BASED ON DESIGN INDOOR UNIT CAPACITY. ALLOW FOR FINAL AIR BALANCING UP OR DOWN THROUGH FIELD ADJUSTMENT.
7. COMPLETE WITH CONDENSATE OVERFLOW FLOAT SWITCH AND PROVIDE INDOOR UNIT SHUTDOWN UPON OVERFLOW DETECTION.

Table with columns: TAG NAME, AREA SERVED, ASSOCIATED VRF HEAT PUMP, TONS, CFM, O.A. CFM, D.C.V. CFM, EXT. S.P., COOLING CAPACITY, HEATING CAPACITY, VOLTAGE, PHASES, MCA, MOCP, OPERATING WEIGHT, AUTOMATIC SMOKE DETECTION SHUTOFF, MANUFACTURER, MODEL, ANCHORAGE, NOTES.

VRF PORT/FLOW SELECTOR BOX

NOTES:
1. REFER TO THE PIPING DIAGRAM FOR CONTROLS AND SPECS.

Table with columns: TAG NAME, MANUFACTURER, MODEL, FANCOIL TAG NAME, VOLTAGE, PHASES, MCA, MOCP, OPERATING WEIGHT, WIRING/PIPING DETAIL, NOTES.

GRILLES REGISTERS & DIFFUSERS SCHEDULE

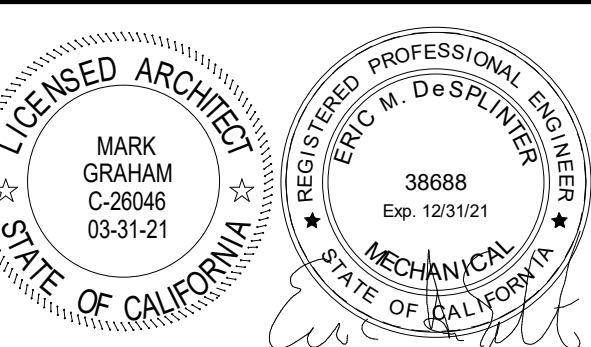
NOTES:
1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2. ALL RUN OUT DUCTWORK TO DIFFUSERS SHALL BE NECK SIZE UNLESS OTHERWISE NOTED.
3. ALL ALUMINUM CONSTRUCTION FOR MFI USE. NON FERROUS FASTENERS ARE REQUIRED.
4. MATCH EXISTING CEILING GRILLES, REGISTERS & DIFFUSERS.

Table with columns: TAG NAME, MATERIAL, CONFIGURATION, MARGIN (NOTE 1), INLET SIZE (IN.), VOLUME DAMPER REQUIRED, FINISH, MANUFACTURER, MODEL, NOTES.

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www.imegcorp.com # 190292420

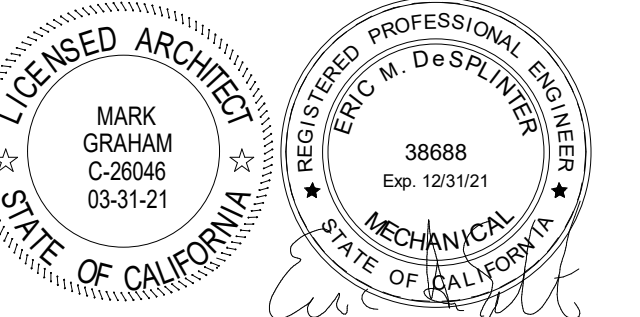
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SCHEDULES

DRAWING NUMBER: **MP0.3**



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1	08/25/20	CG	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			

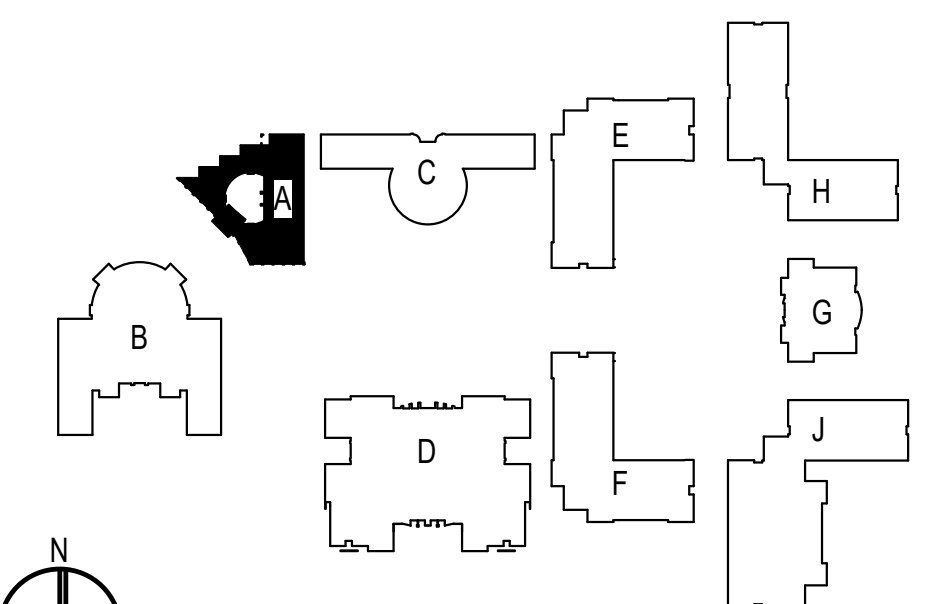
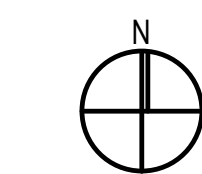
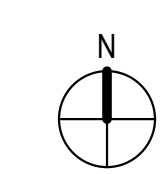
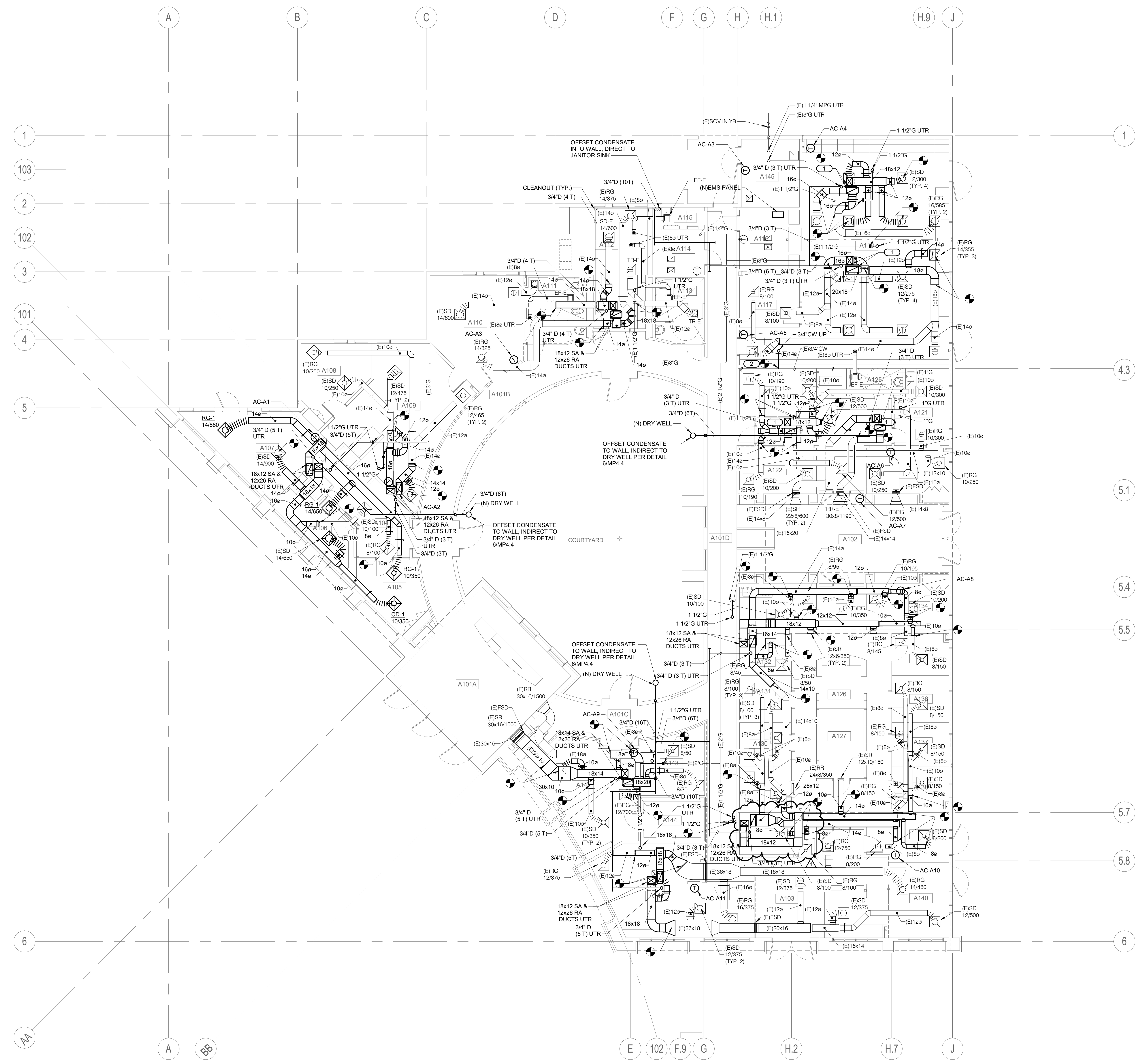
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DATE: Issue Date	SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project	Number

BUILDING A REMODEL FLOOR PLAN

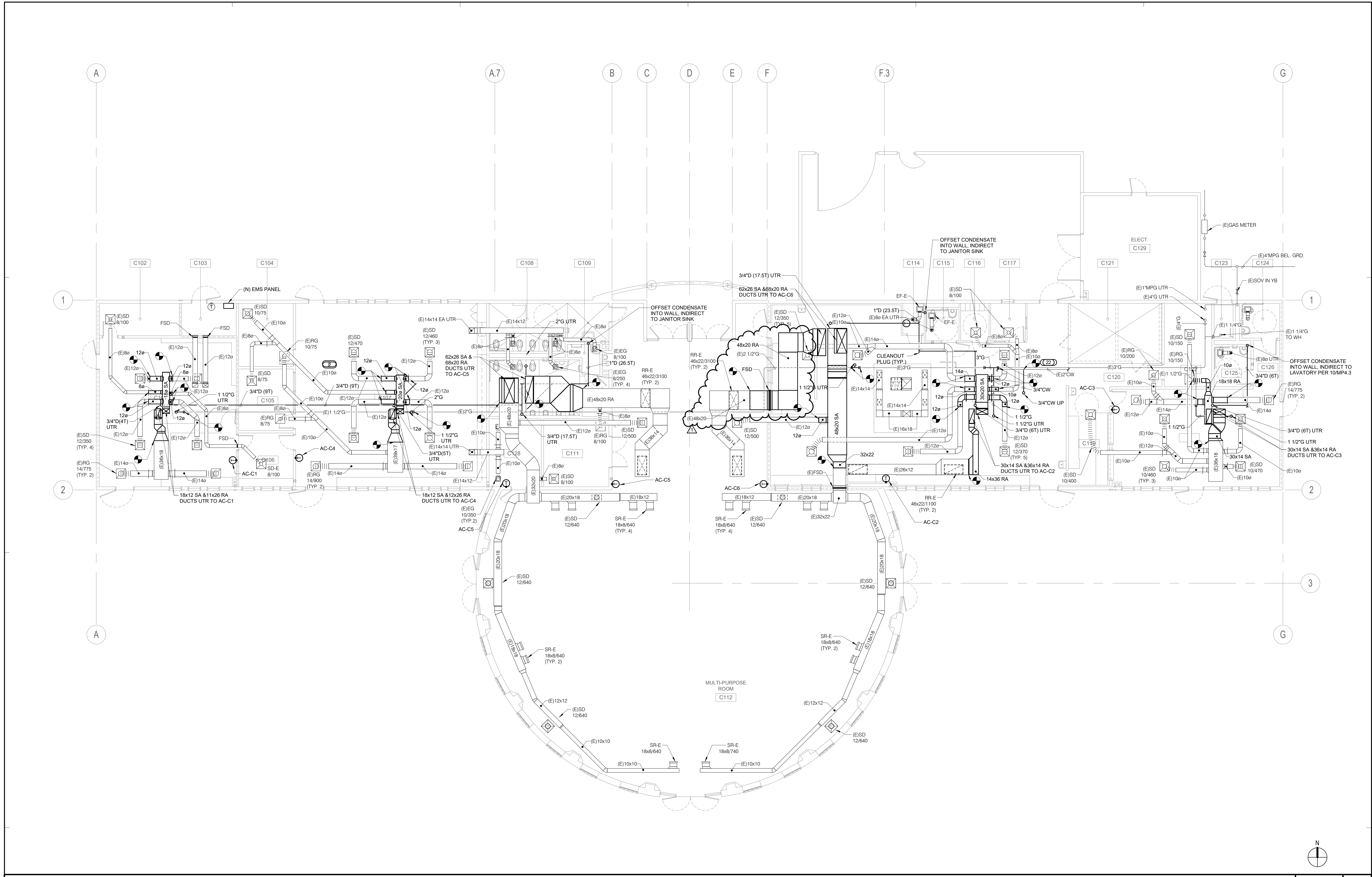
DRAWING NUMBER: **MPA2.1**

- REMODEL KEYNOTES:**
- 18x12 SA & 12x26 RA DUCTS UTR TO AC UNITS.
 - P.O.C. 3/4" CW LINE TO (E) CW LINE. CHECK DRAWING AND V.I.F. SIZE OF (E) CW PIPE SIZE.

- REMODEL GENERAL NOTES:**
- FOR DUCT SUPPORT DETAIL, SEE DETAIL 6/MP4.2.
 - FOR DUCT CONNECTION TO CEILING AIR DEVICES, SEE DETAIL 7/MP4.2.
 - FOR VOLUME DAMPER, SEE DETAIL 11/MP4.2.
 - FOR PIPING WITH INSULATION THRU RATED WALL, SEE DETAIL 14/MP4.3.
 - FOR FIRE/SMOKE DAMPER, SEE DETAIL 2/MP4.3.
 - FOR SINGLE PIPE HANGER, SEE DETAIL 8/MP4.3.
 - FOR PIPE THRU ROOF, SEE DETAIL 9/MP4.3.
 - FOR CONDENSATE CONNECTION TO (LAV) PIPING, SEE DETAIL 10/MP4.3.
 - INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING. REUSE EXISTING CONDUIT ON WALL. PROVIDE NEW CONDUIT AS REQUIRED.
 - FOR CONDENSATE PIPE DOWN EXTERIOR WALL, SEE DETAIL 9/MP4.4.
 - PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED.



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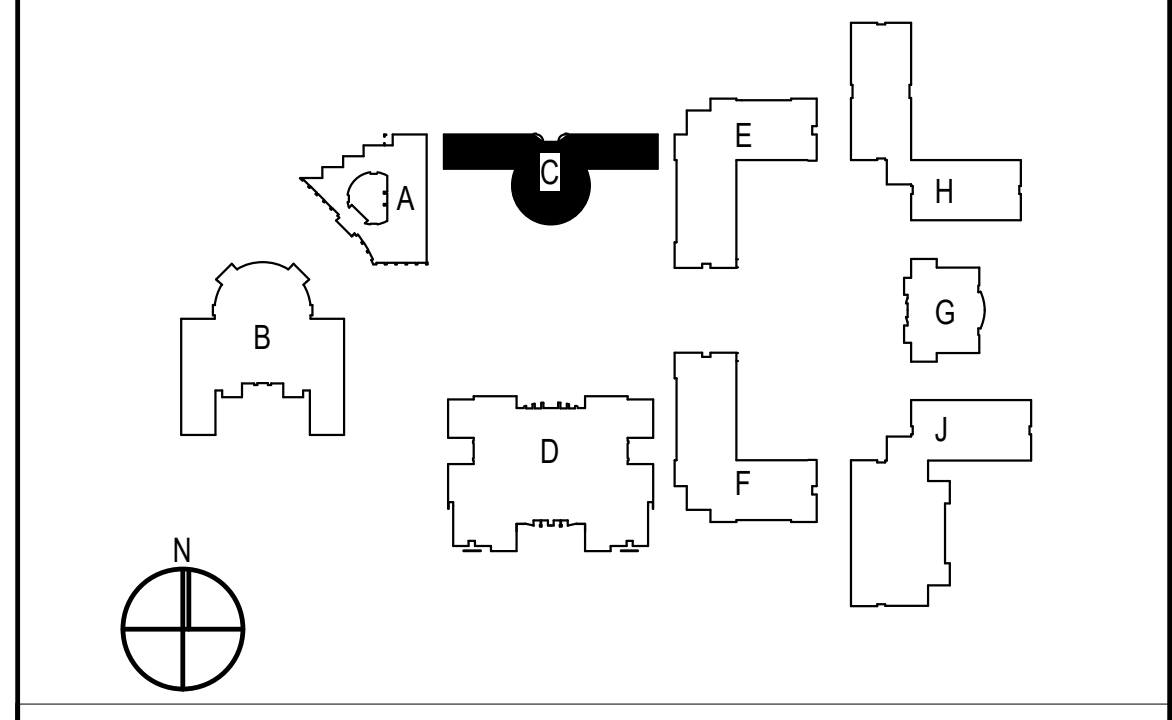
BUILDING C REMODEL FIRST FLOOR PLAN 1/8" = 1'-0" 1

REMODEL KEYNOTES: #

- 18x12 SA & 12x26 RA DUCTS UTR TO AC UNITS.
- P.O.C. 3/4" CW LINE TO (E) CW LINE. CHECK DRAWING AND V.I.F. SIZE OF (E) CW PIPE SIZE.

REMODEL GENERAL NOTES:

- FOR DUCT SUPPORT DETAIL, SEE DETAIL 8/MP4.2.
- FOR DUCT CONNECTION TO CEILING AIR DEVICES, SEE DETAIL 7/MP4.2.
- FOR VOLUME DAMPER, SEE DETAIL 11/MP4.2.
- FOR PIPING WITH INSULATION THRU RATED WALL, SEE DETAIL 1/MP4.3.
- FOR FIRE/SMOKE DAMPER, SEE DETAIL 2/MP4.3.
- FOR SINGLE PIPE HANGER, SEE DETAIL 8/MP4.3.
- FOR PIPE THRU ROOF, SEE DETAIL 9/MP4.3.
- FOR CONDENSATE CONNECTION TO DRAINAGE, SEE DETAIL 10/MP4.3.
- INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING. REUSE EXISTING CONDUIT ON WALL. PROVIDE NEW CONDUIT AS REQUIRED.
- PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED.



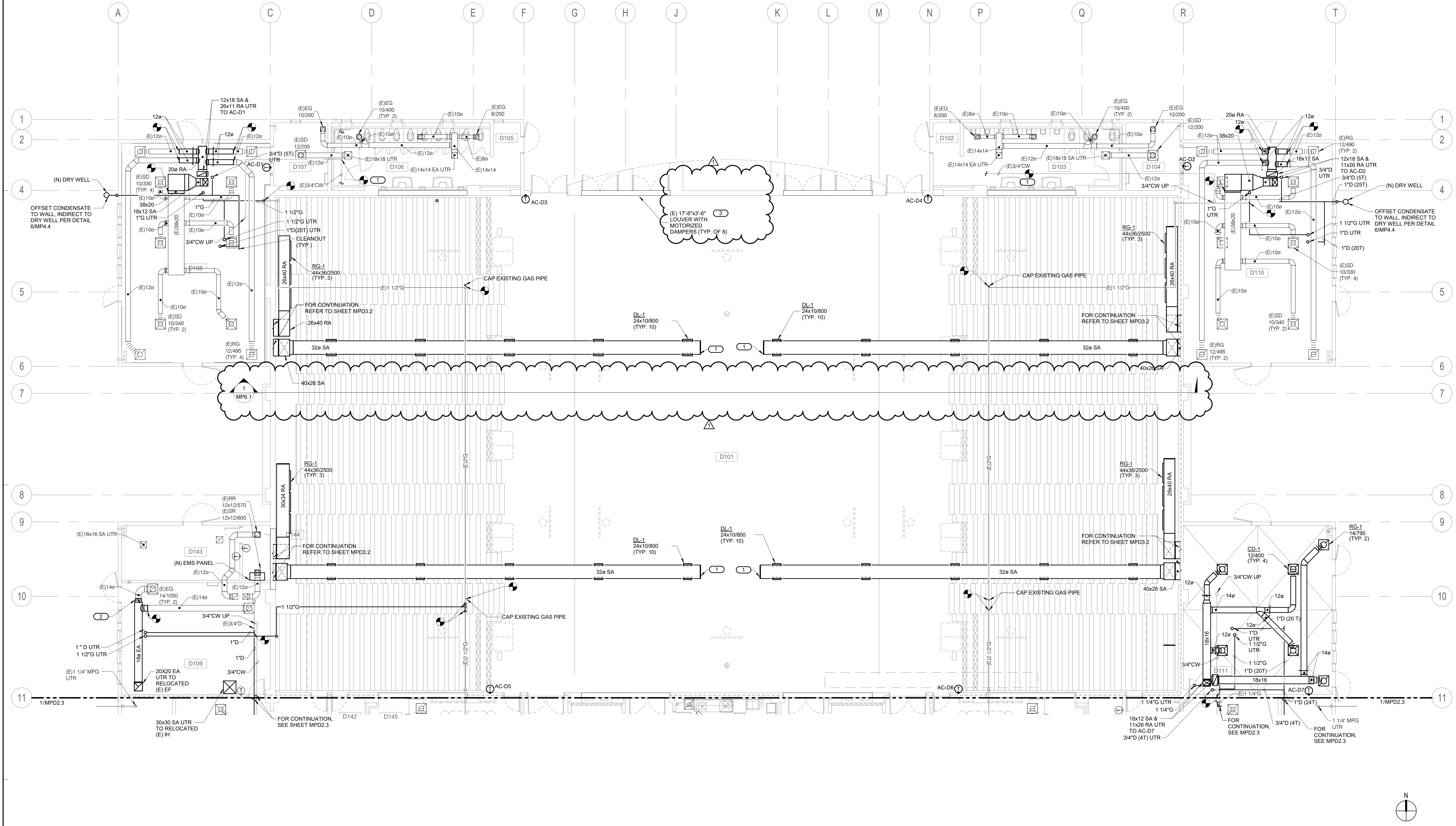
SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	08/25/20	CG	ADDENDUM 1
REVISIONS			

DRAWN: CDG CHECKED: PD
DATE: Issue Date SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project Number

**BUILDING C REMODEL
FIRST FLOOR PLAN**

DRAWING NUMBER: **MPC2.1**



KEYNOTES: (E)

- SA DUCT SHALL RUN THRU THE (E) TRUSSES.
- EXTEND THERMOSTAT WIRING CONNECTION AS REQUIRED TO MAINTAIN EXISTING OPERATION.
- CLOSE AND LOCK EXISTING DAMPERS.

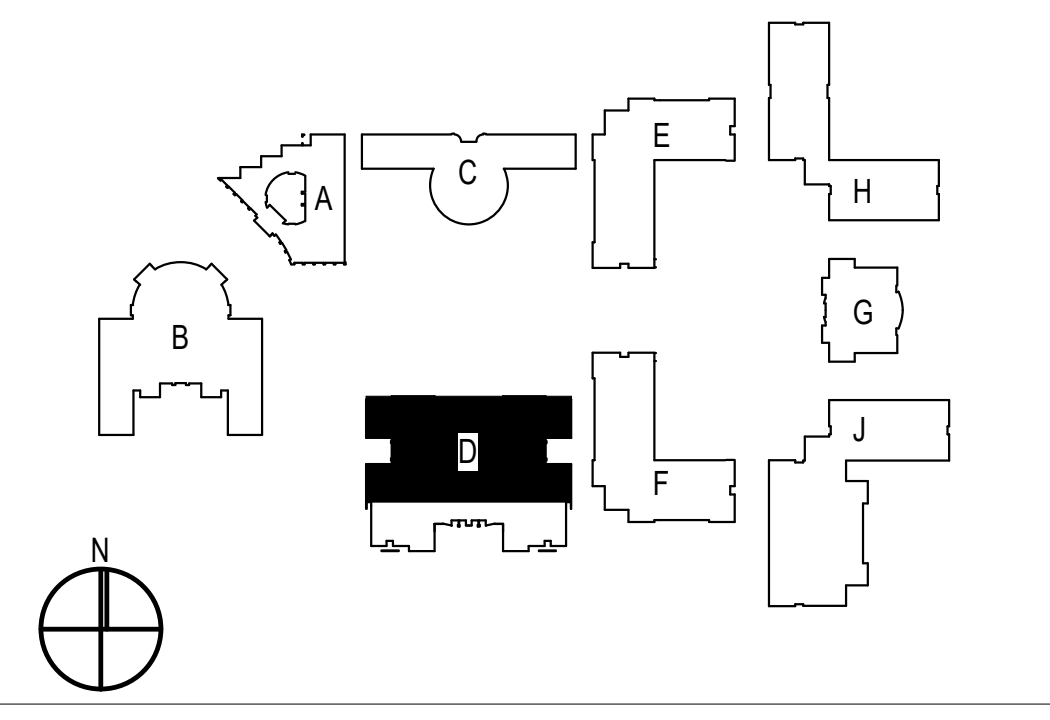
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- P.O.C. 3/4" CW LINE TO (E) CW LINE. CHECK DRAWING AND V.I.F. SIZE OF (E) CW PIPE SIZE.

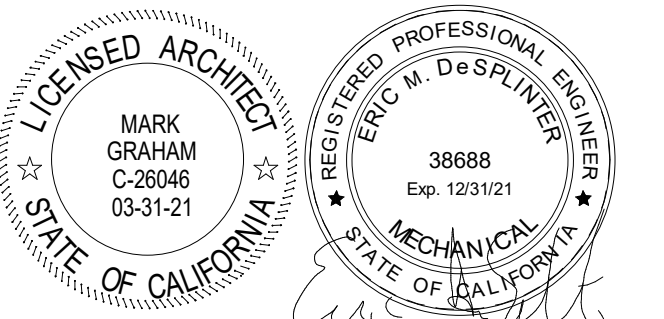
REMODEL GENERAL NOTES:

- INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING. REUSE EXISTING CONDUIT ON WALL. PROVIDE NEW CONDUIT AS REQUIRED.
- PAINT EXPOSED DUCT AND PIPING TO MATCH EXISTING TRUSSES AND SURROUNDING AREA.
- PROVIDE NEW CONNECTIONS TO EMS PANEL AS REQUIRED.

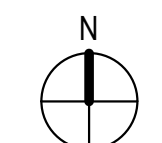
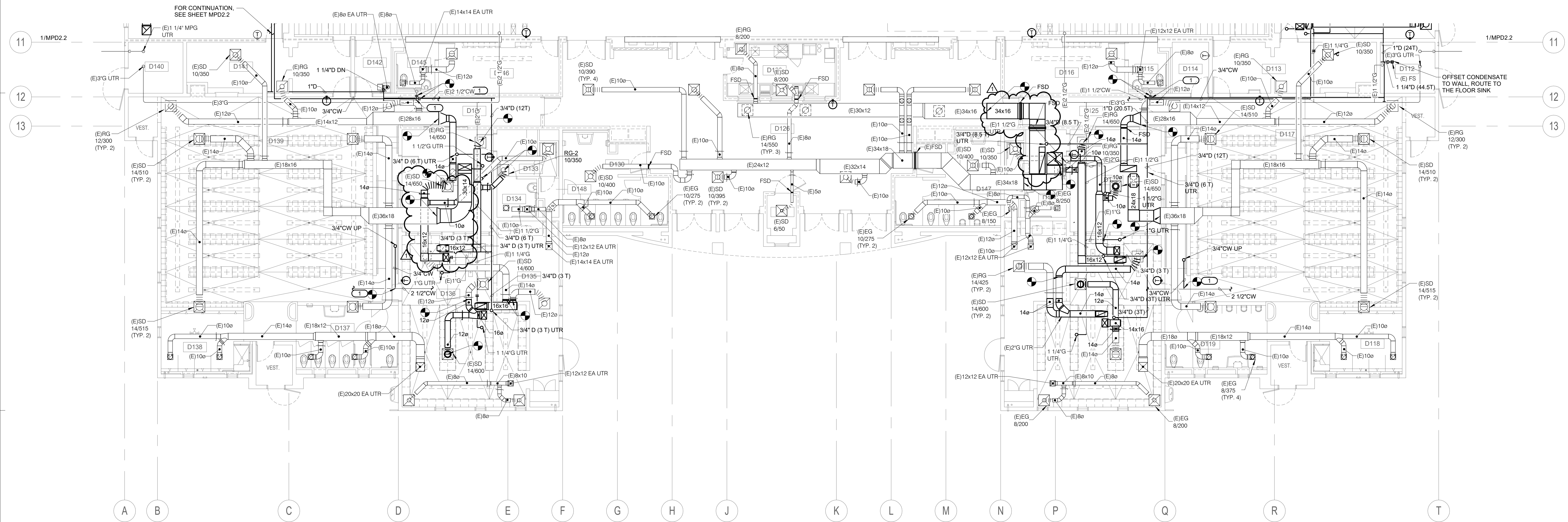
BUILDING D REMODEL FLOOR PLAN - AREA 1 1/8" = 1'-0" 1



1	08/25/20	CG	ADDENDUM 1
NO	DATE	BY	DESCRIPTION
REVISIONS			
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DATE:	Issue Date	SCALE:	1/8" = 1'-0"
PROJECT NUMBER:	Project	Number:	
BUILDING D REMODEL FLOOR PLAN - AREA 1			
DRAWING NUMBER:	MPD2.2		



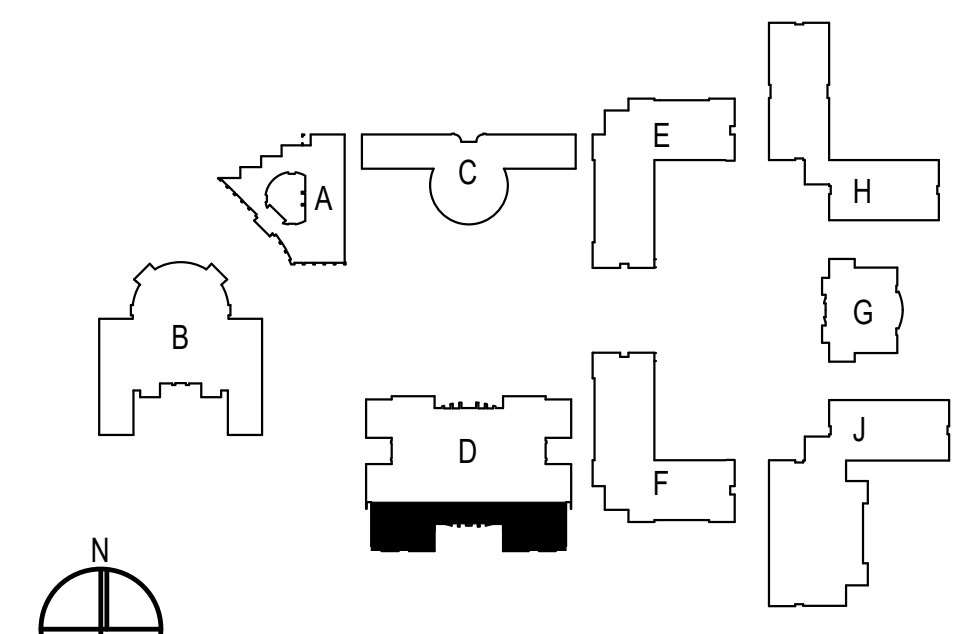
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BUILDING D REMODEL FLOOR PLAN - AREA 2 1/8" = 1'-0" 1

- REMODEL KEYNOTES:**
1. P.O.C. 3/4" CW LINE TO (E) CW LINE. CHECK DRAWING AND V.I.F. SIZE OF (E) CW PIPE SIZE.
 2. OFFSET CONDENSATE INTO WALL. INDIRECT TO LAVATORY PER 10MP4.3.

- REMODEL GENERAL NOTES:**
1. FOR DUCT SUPPORT DETAIL, SEE DETAIL 8MP4.2.
 2. FOR DUCT CONNECTION TO CEILING AIR DEVICES, SEE DETAIL 7MP4.2.
 3. FOR VOLUME DAMPER, SEE DETAIL 11MP4.2.
 4. FOR PIPING WITH INSULATION THRU RATED WALL, SEE DETAIL 1MP4.3.
 5. FOR FIRE/SMOKE DAMPER, SEE DETAIL 2MP4.3.
 6. FOR SINGLE PIPE HANGER, SEE DETAIL 8MP4.3.
 7. FOR PIPE THRU ROOF, SEE DETAIL 9MP4.3.
 8. FOR CONDENSATE CONNECTION TO LAVATORY, SEE DETAIL 10MP4.3.
 9. INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING. REUSE EXISTING CONDUIT ON WALL. PROVIDE NEW CONDUIT AS REQUIRED.



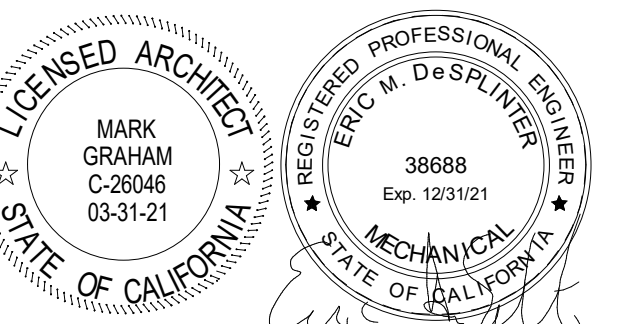
SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
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REVISIONS			

DRAWN: CDG	CHECKED: PD
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**BUILDING D REMODEL
FLOOR PLAN - AREA 2**

DRAWING NUMBER: **MPD2.3**



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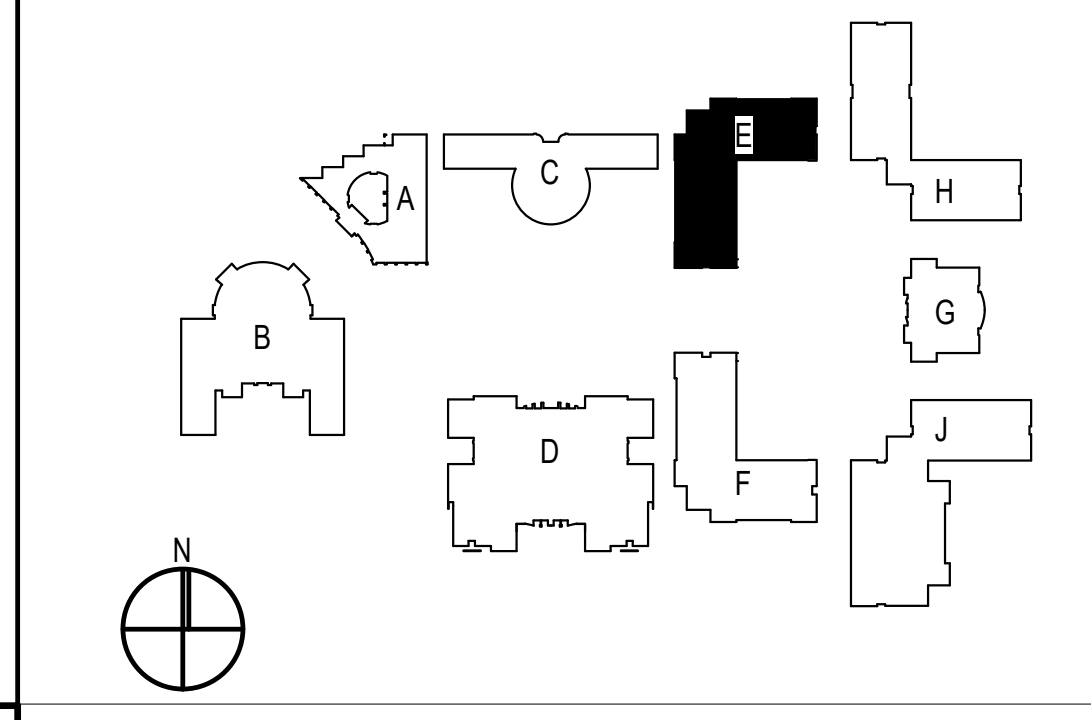
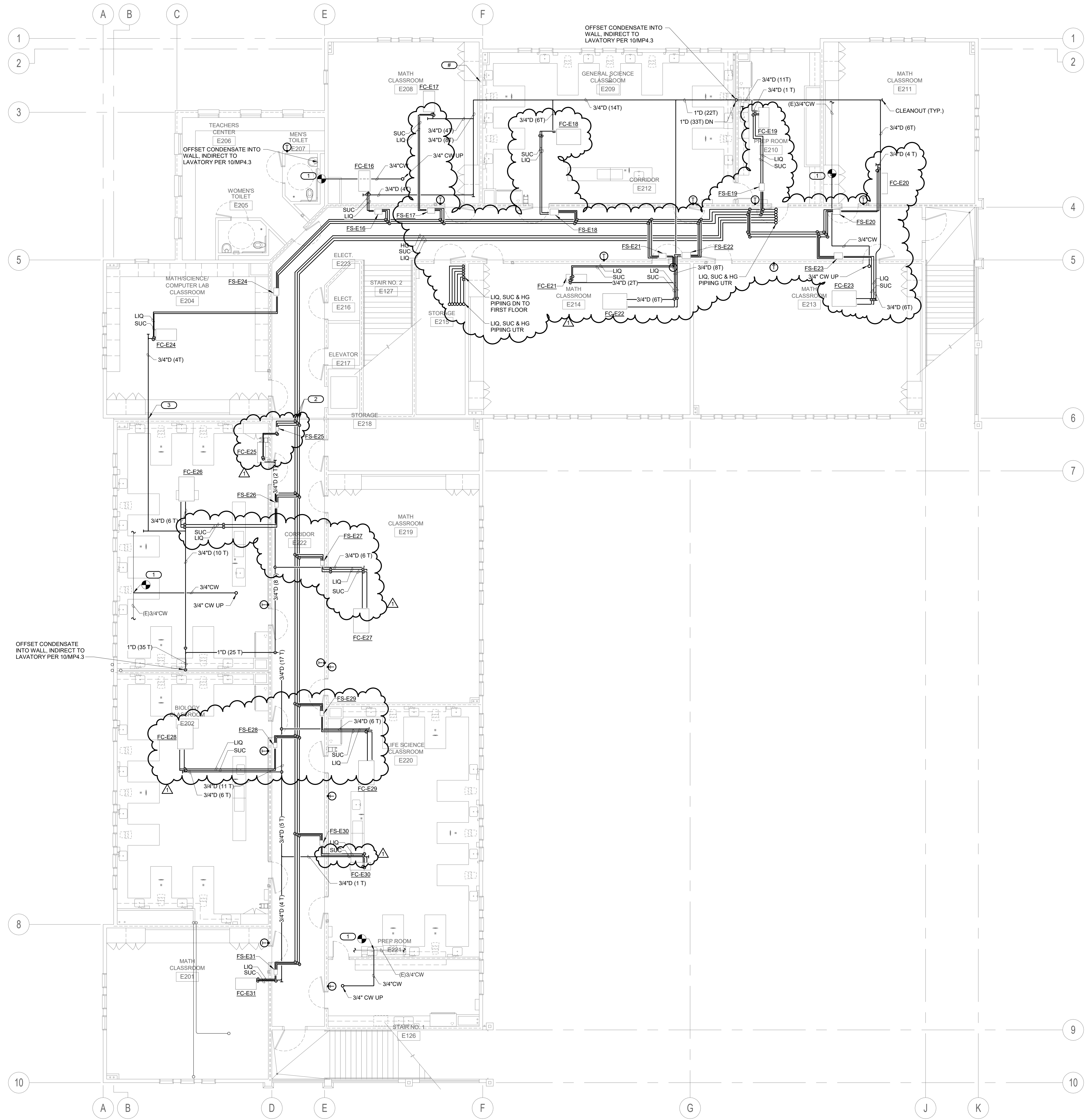
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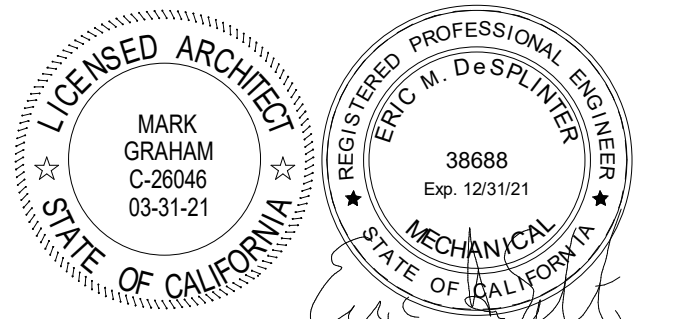
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PROJECT NUMBER: Project	Number

**BUILDING E REMODEL
PIPING SECOND FLOOR PLAN**

REMODEL KEYNOTES:

1. P.O.C. 3/4" CW LINE TO (E) CW LINE. CHECK DRAWING AND V.I.F. SIZE OF (E) CW PIPE SIZE.
2. PROVIDE FLEXIBLE CONNECTION FOR PIPING PENETRATING SEISMIC SEPARATION PER DETAIL 7/MP4.4.
3. PROVIDE FLEXIBLE CONNECTION FOR CONDENSATE PIPING PENETRATING SEISMIC SEPARATION PER DETAIL 8/MP4.4.





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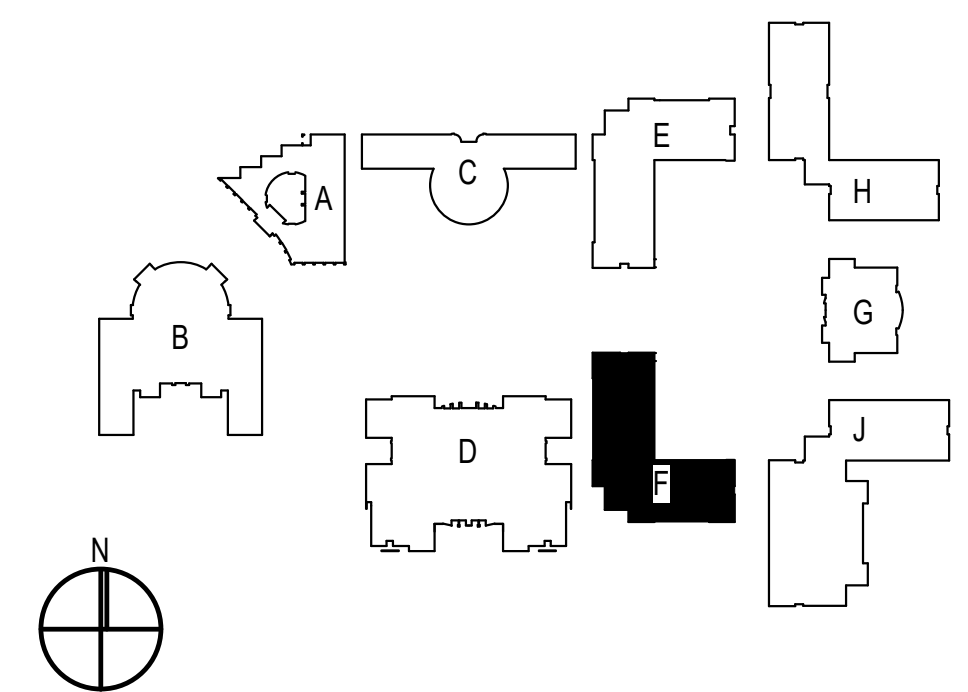
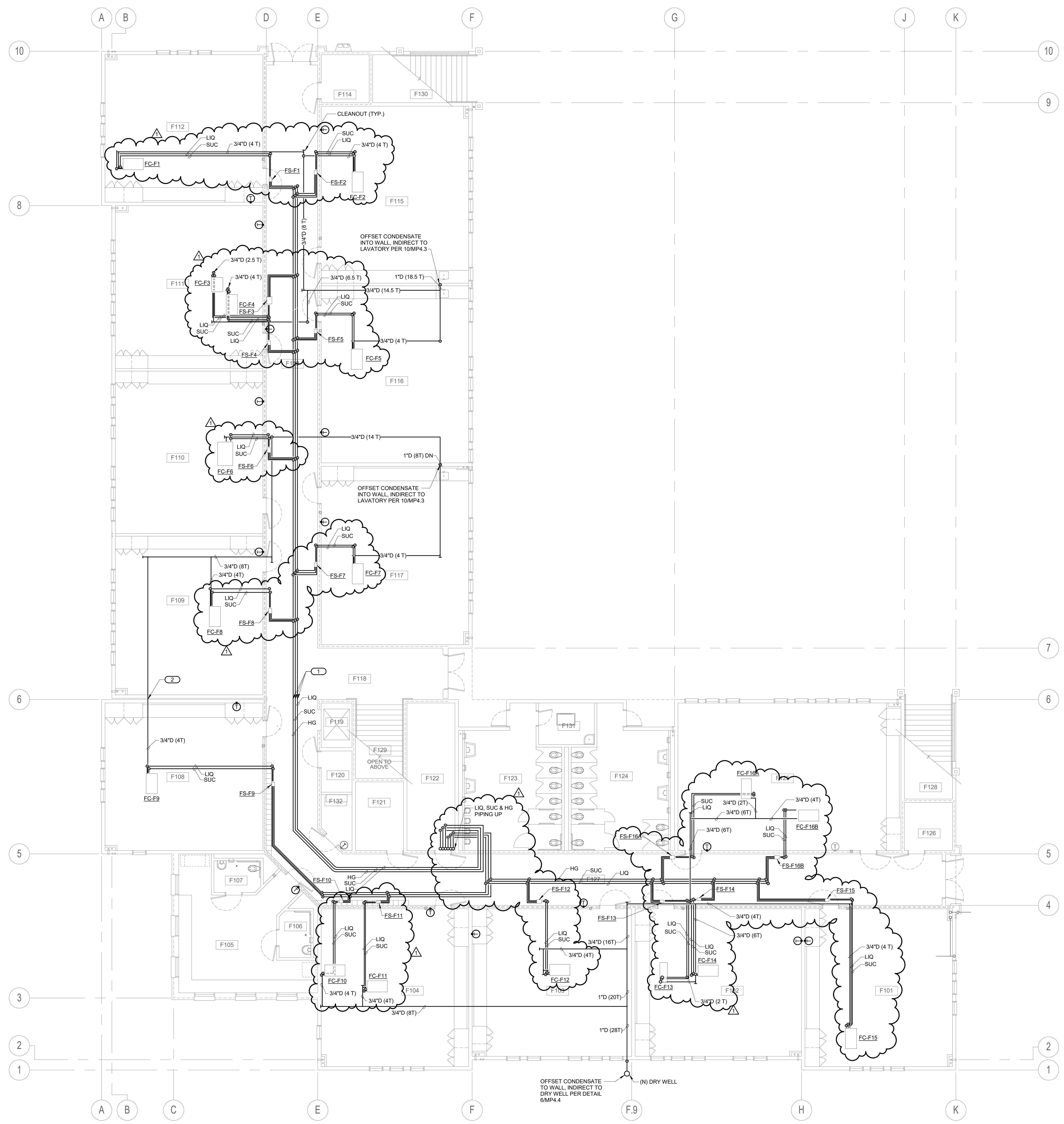
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: CDG	CHECKED: PD
DATE: Issue Date	SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project Number	

**BUILDING F REMODEL
PIPING FIRST FLOOR
PLAN**

DRAWING NUMBER: **MPF2.3**

- REMODEL KEYNOTES: #
1. PROVIDE FLEXIBLE CONNECTION FOR PIPING PENETRATING SEISMIC SEPARATION PER DETAIL 7/MP4.4.
 2. PROVIDE FLEXIBLE CONNECTION FOR CONDENSATE PIPING PENETRATING SEISMIC SEPARATION PER DETAIL 8/MP4.4.

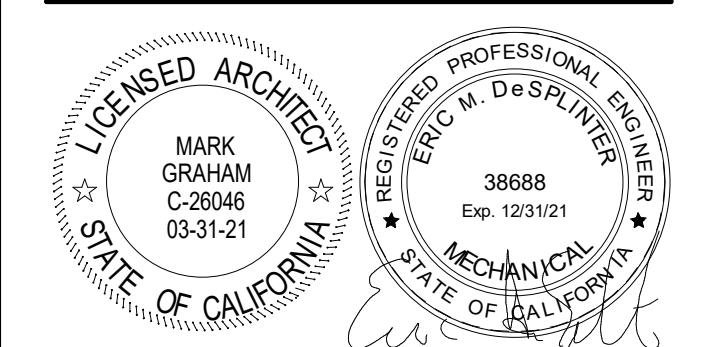


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1	08/25/20	CG	ADDENDUM 1
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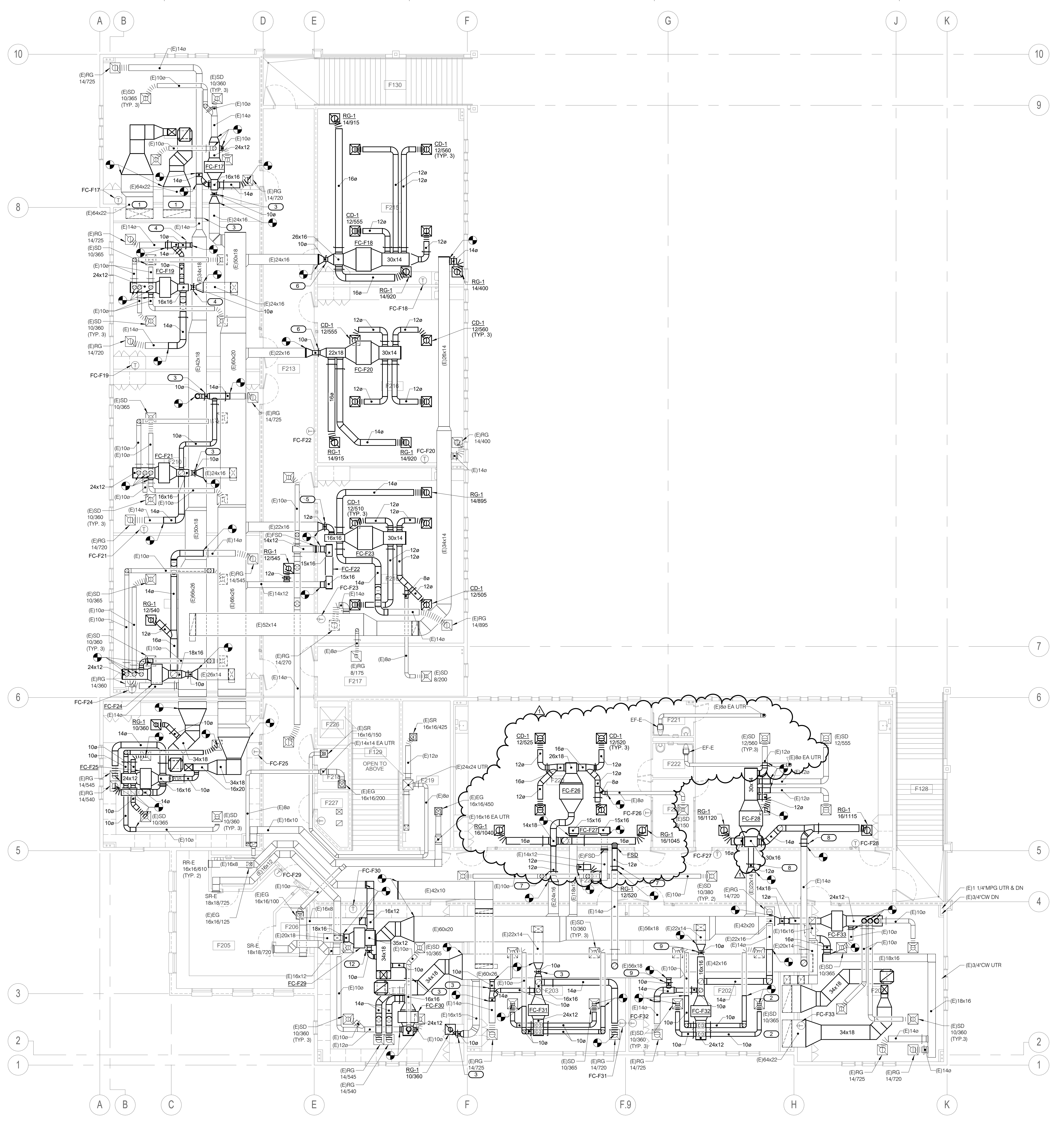
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PROJECT NUMBER: Project Number

**BUILDING F REMODEL
SECOND FLOOR PLAN**

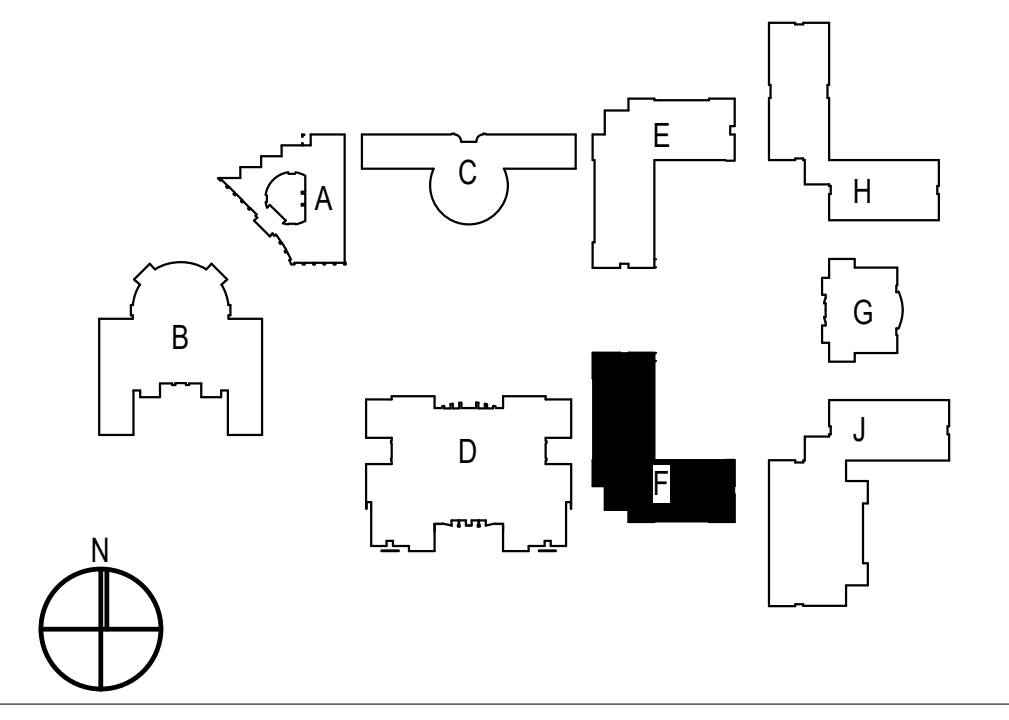
DRAWING NUMBER: **MPF2.4**

- EXISTING AND REMODEL KEYNOTES: (E) #**
- (E)2x22 SA & RA DUCTS DOWN IN SHAFT.
 - (E)4x22 SA & RA DUCTS DOWN IN SHAFT.
 - SET THE MANUAL VOLUME DAMPER TO OUTPUT 360 CFM.
 - SET THE MANUAL VOLUME DAMPER TO OUTPUT 365 CFM.
 - SET THE MANUAL VOLUME DAMPER TO OUTPUT 445 CFM.
 - SET THE MANUAL VOLUME DAMPER TO OUTPUT 400 CFM.
 - SET THE MANUAL VOLUME DAMPER TO OUTPUT 510 CFM.
 - SET THE MANUAL VOLUME DAMPER TO OUTPUT 455 CFM.
 - SET THE MANUAL VOLUME DAMPER TO OUTPUT 375 CFM.
 - SET THE MANUAL VOLUME DAMPER TO OUTPUT 225 CFM.

- REMODEL GENERAL NOTES:**
- FOR REFRIGERANT PIPE THRU ROOF. SEE DETAIL 10/MP4.1.
 - FOR REFRIGERANT PIPE SUPPORT ON CHASE WALL. SEE DETAIL 11/MP4.1.
 - FOR DUCT SUPPORT DETAIL. SEE DETAIL 6/MP4.2.
 - FOR DUCT CONNECTION TO CEILING AIR DEVICES. SEE DETAIL 7/MP4.2.
 - FOR VOLUME DAMPER. SEE DETAIL 11/MP4.2.
 - FOR DUCTED FAN COIL UNIT MOUNTING. SEE DETAIL 2/MP4.2.
 - FOR REFRIGERANT PIPING SUPPORT SUSPENDED. SEE DETAIL 5/MP4.2.
 - FOR PIPING WITH INSULATION THRU RATED WALL. SEE DETAIL 1/MP4.3.
 - FOR FIRE/SMOKE DAMPER. SEE DETAIL 2/MP4.3.
 - FOR SINGLE PIPE HANGER. SEE DETAIL 8/MP4.3.
 - FOR PIPE THRU ROOF. SEE DETAIL 9/MP4.3.
 - FOR CONDENSATE CONNECTION TO LAVATORY. SEE DETAIL 10/MP4.3.
 - INSTALL NEW TEMPERATURE CONTROL SENSORS AND WIRING. REUSE EXISTING CONDUIT DN WALL. PROVIDE NEW CONDUIT AS REQUIRED.



BUILDING F REMODEL SECOND FLOOR PLAN 1/8" = 1'-0" 1



SITE KEY PLAN

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- REMODEL GENERAL NOTES:**
1. MAINTAIN MIN. 10 FT. FROM OA INTAKES AND PLUMBING VENTS. RELOCATE EXISTING PLUMBING VENTS AS REQUIRED.
 2. FOR REFRIGERANT PIPE SUPPORT ON ROOF, SEE DETAIL 9/MP4.1
 3. FOR REFRIGERANT PIPE THRU ROOF, SEE DETAIL 10/MP4.1.
 4. FOR ROOF CAP MOUNTING, SEE DETAIL 7/MP4.1.
 5. FOR ROOF MOUNTED HOSE BIBS, SEE DETAIL 7/MP4.3.



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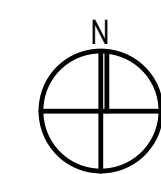
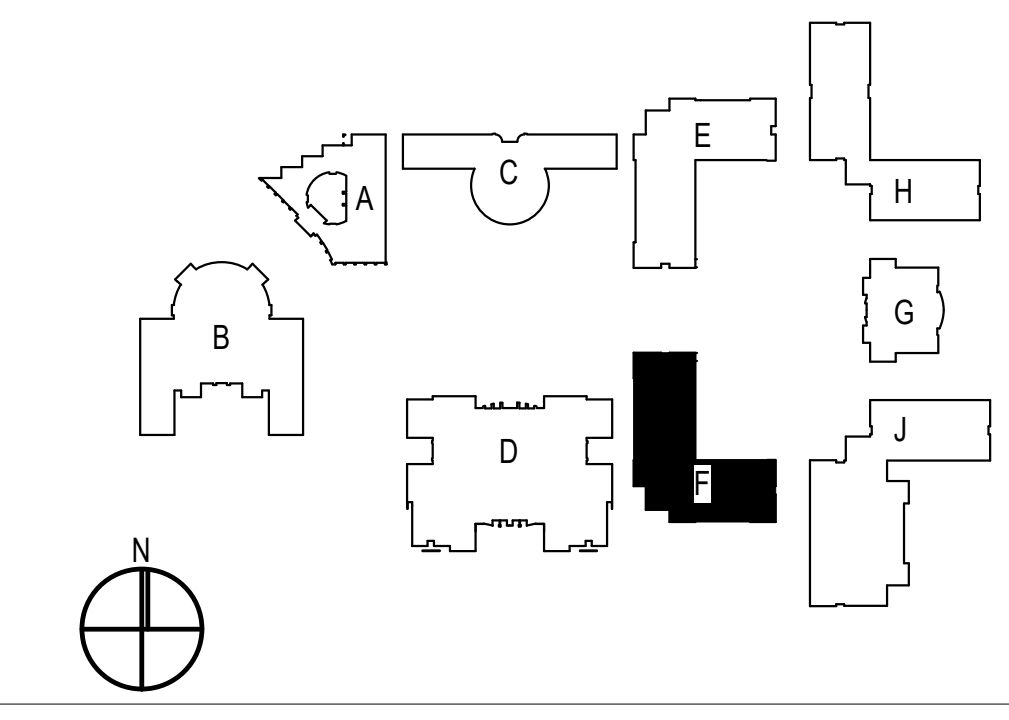
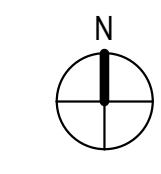
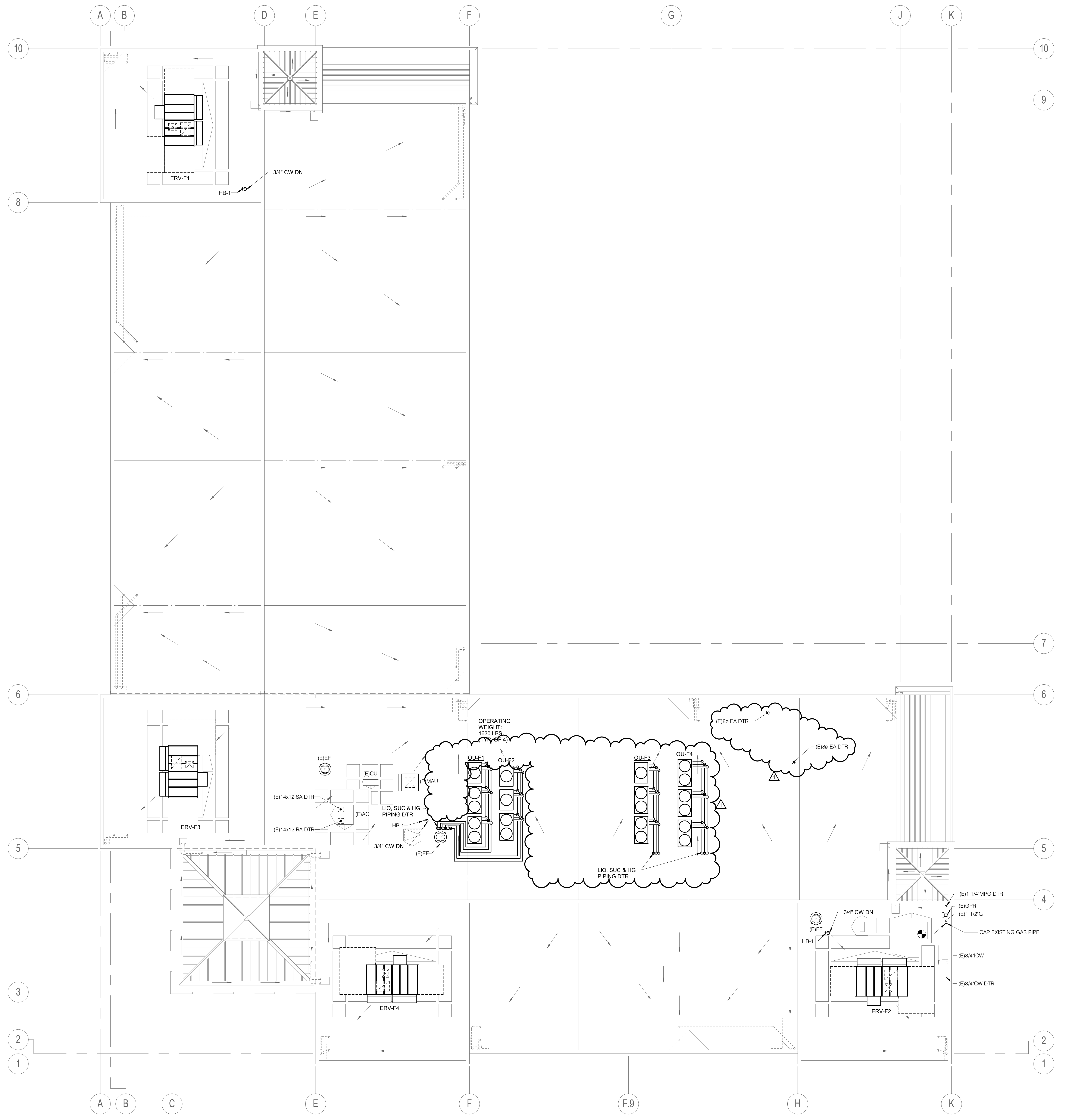
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**BUILDING F REMODEL
ROOF PLAN**

DRAWING NUMBER: **MPF3.1**



BUILDING F REMODEL ROOF PLAN 1/8" = 1'-0" 1

SITE KEY PLAN

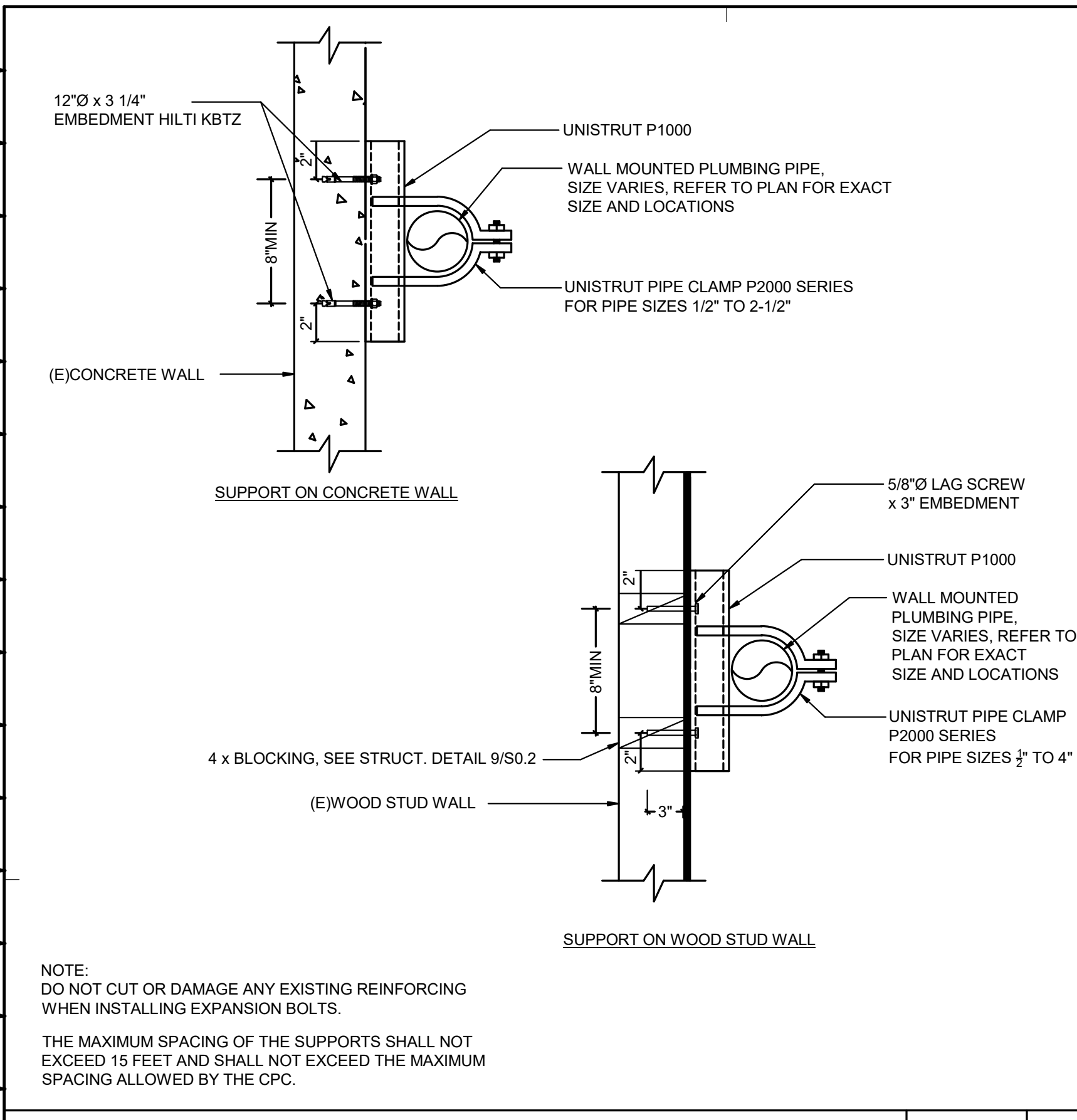
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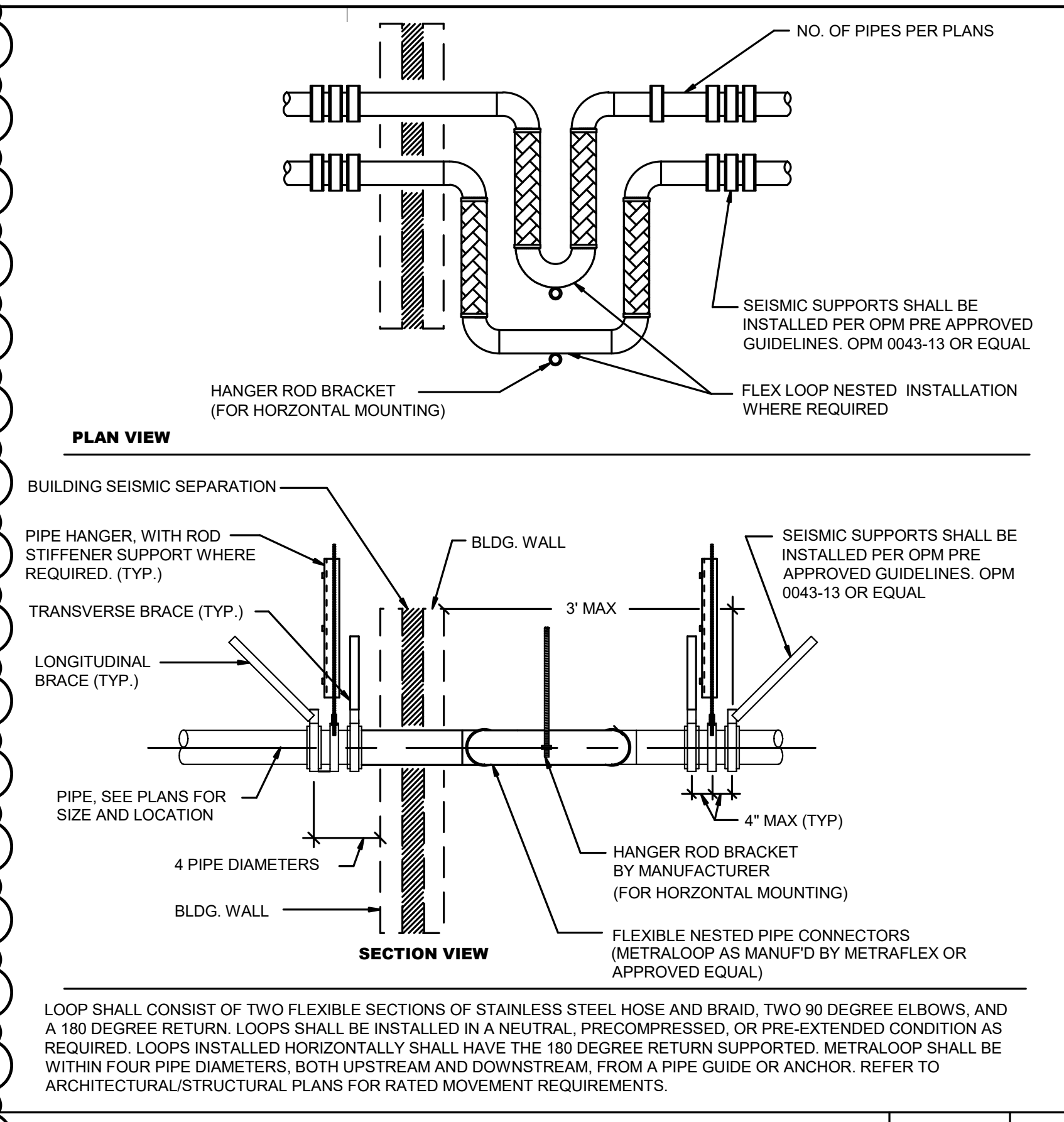
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PROJECT NUMBER: Project	Number

DETAILS

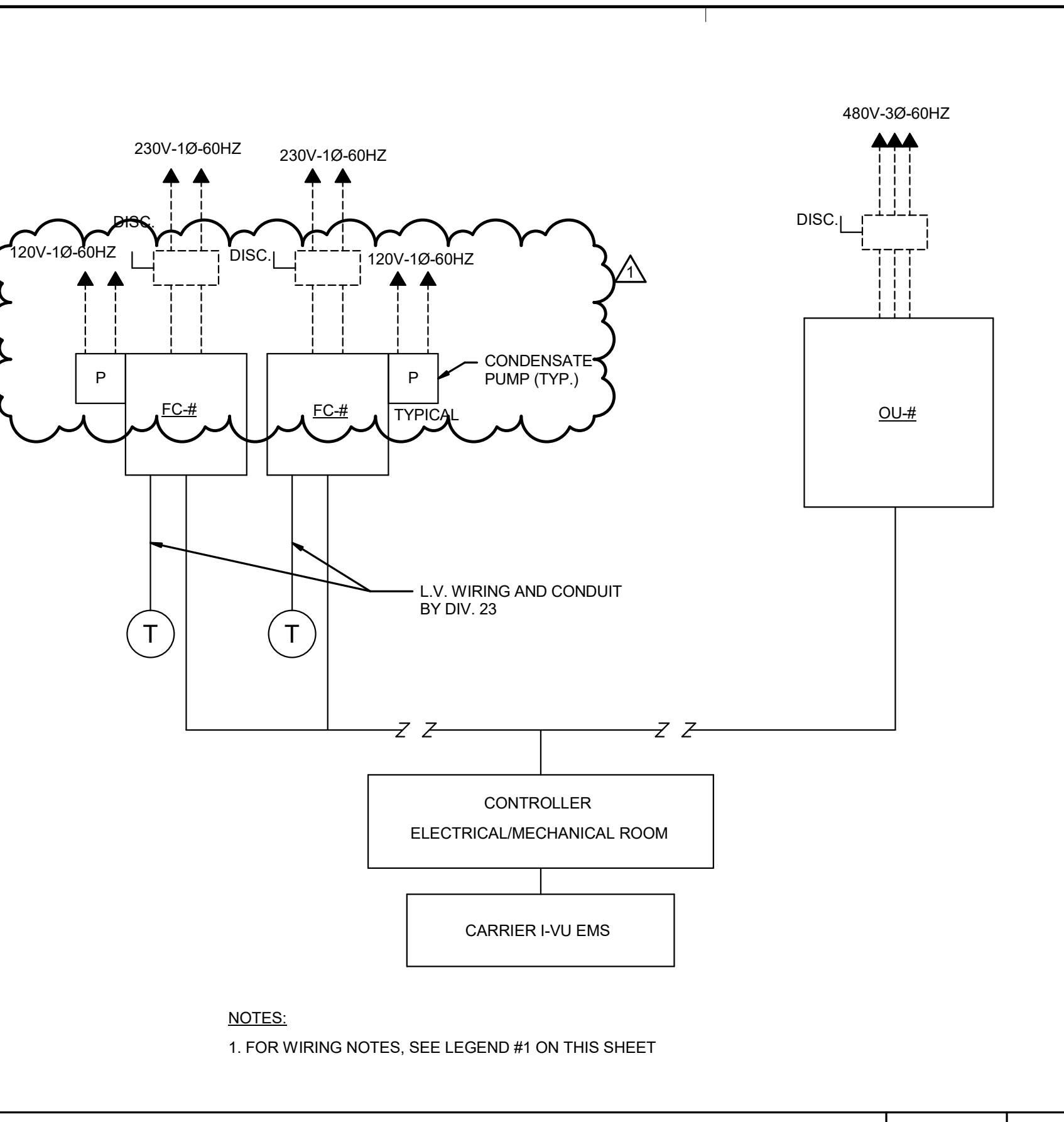
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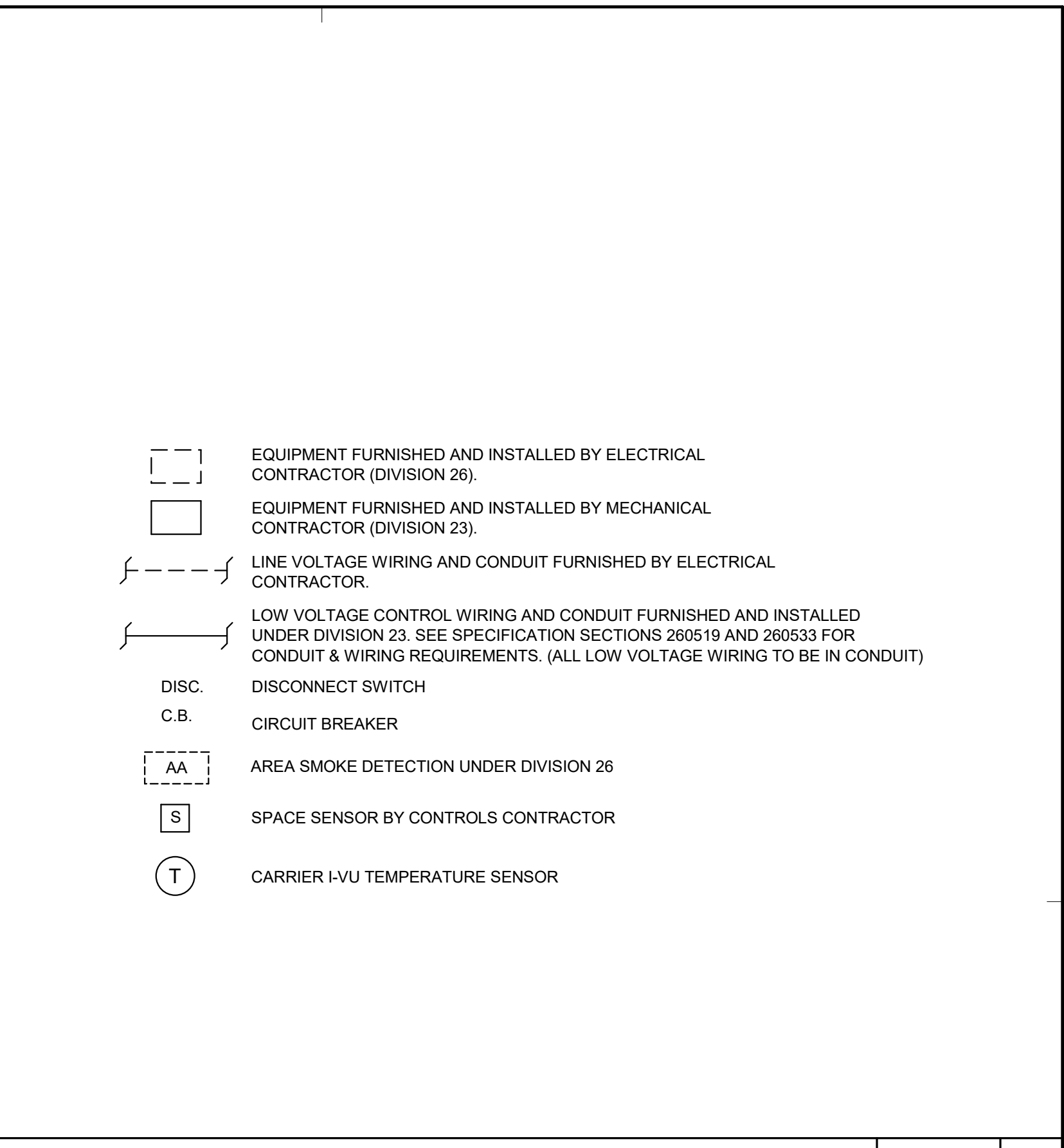
PIPE WALL SUPPORT NTS 10



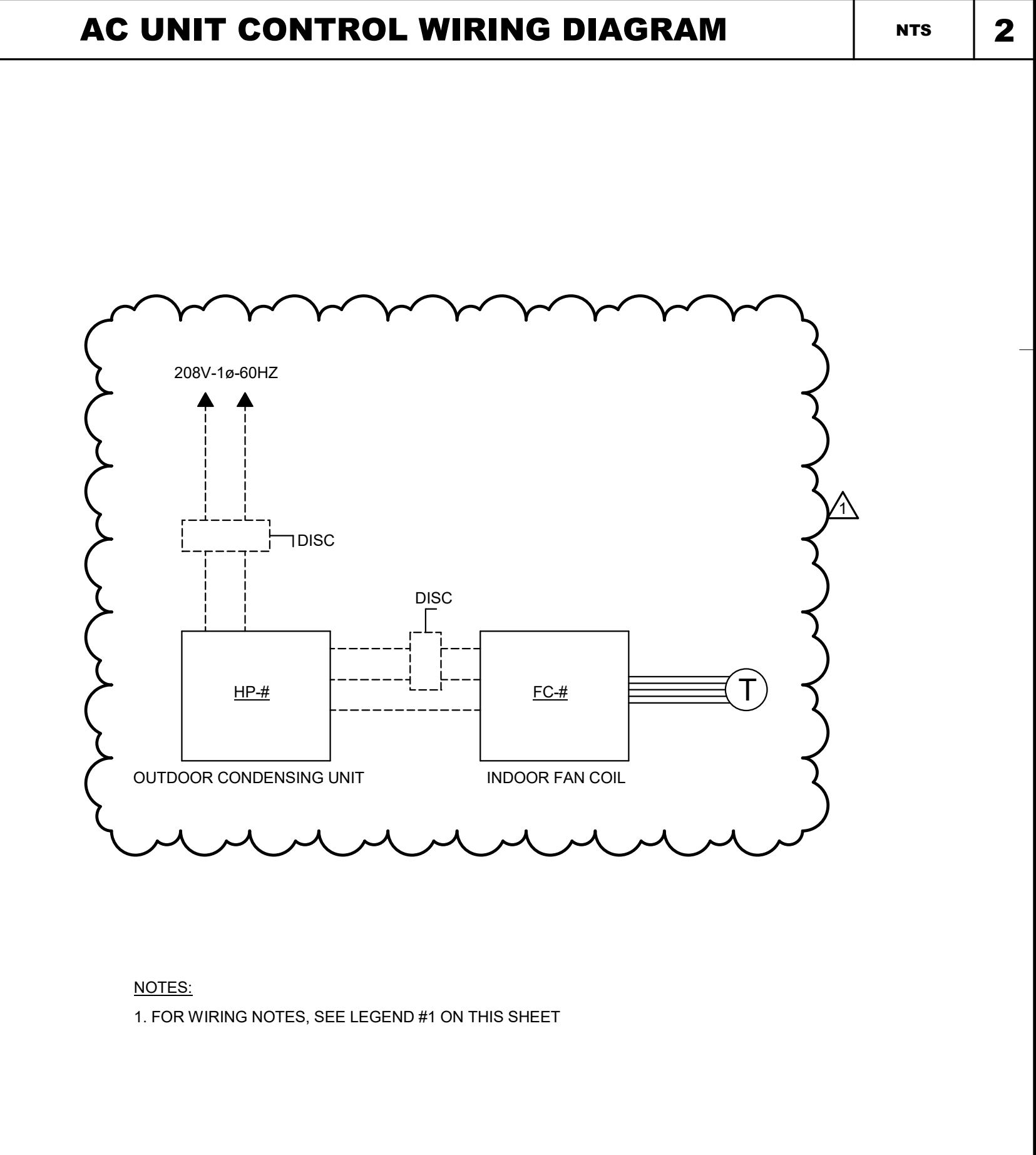
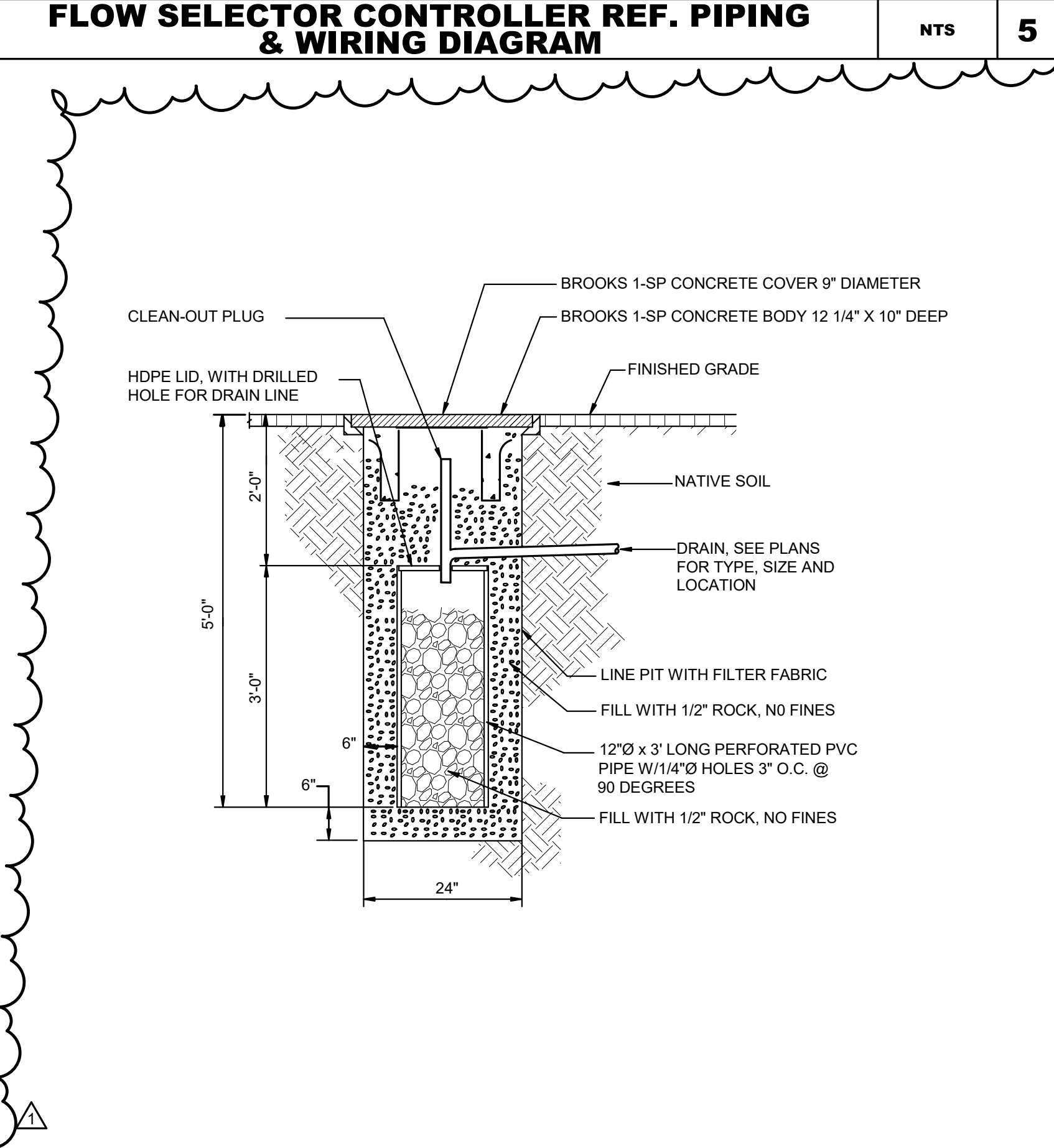
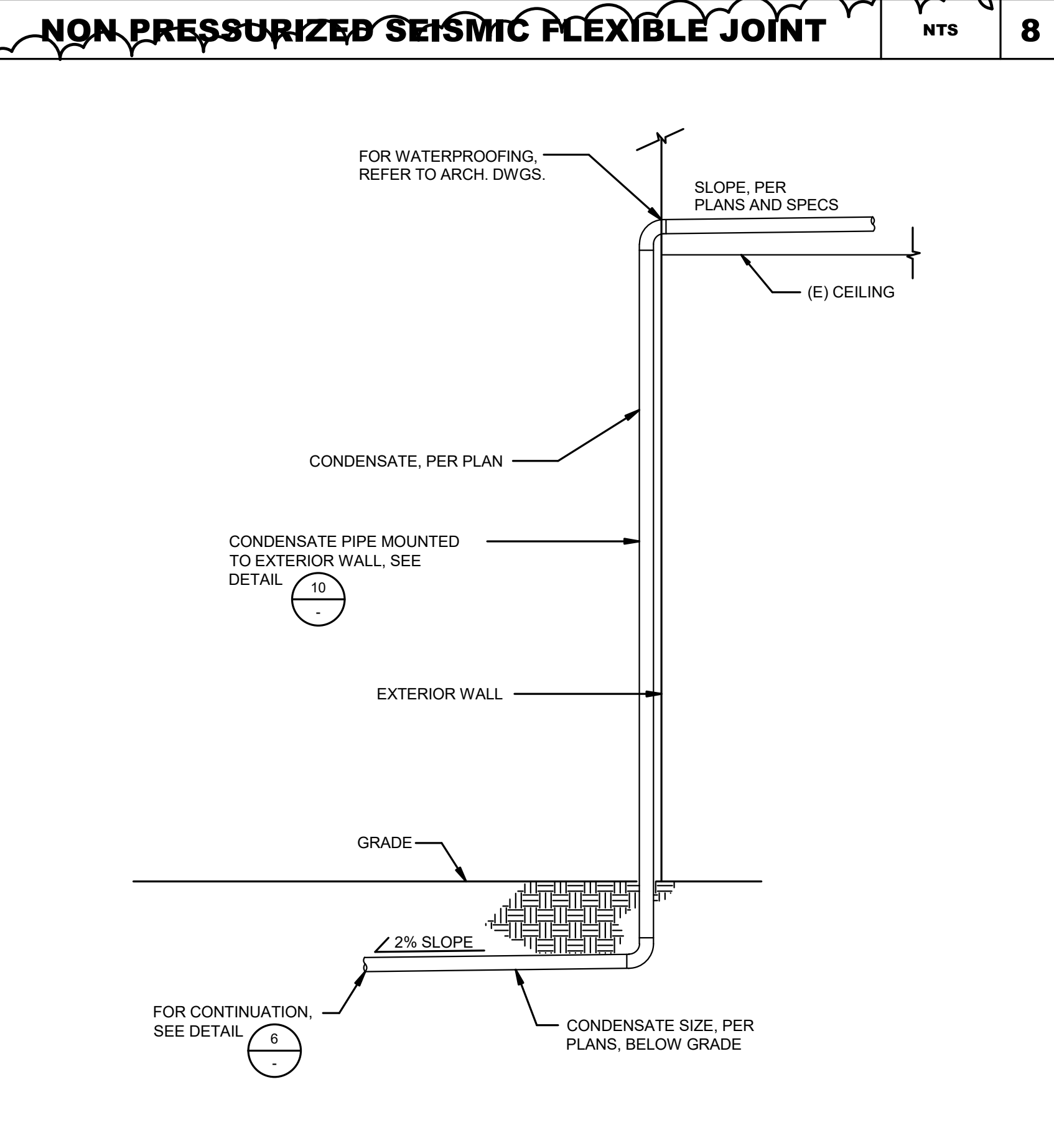
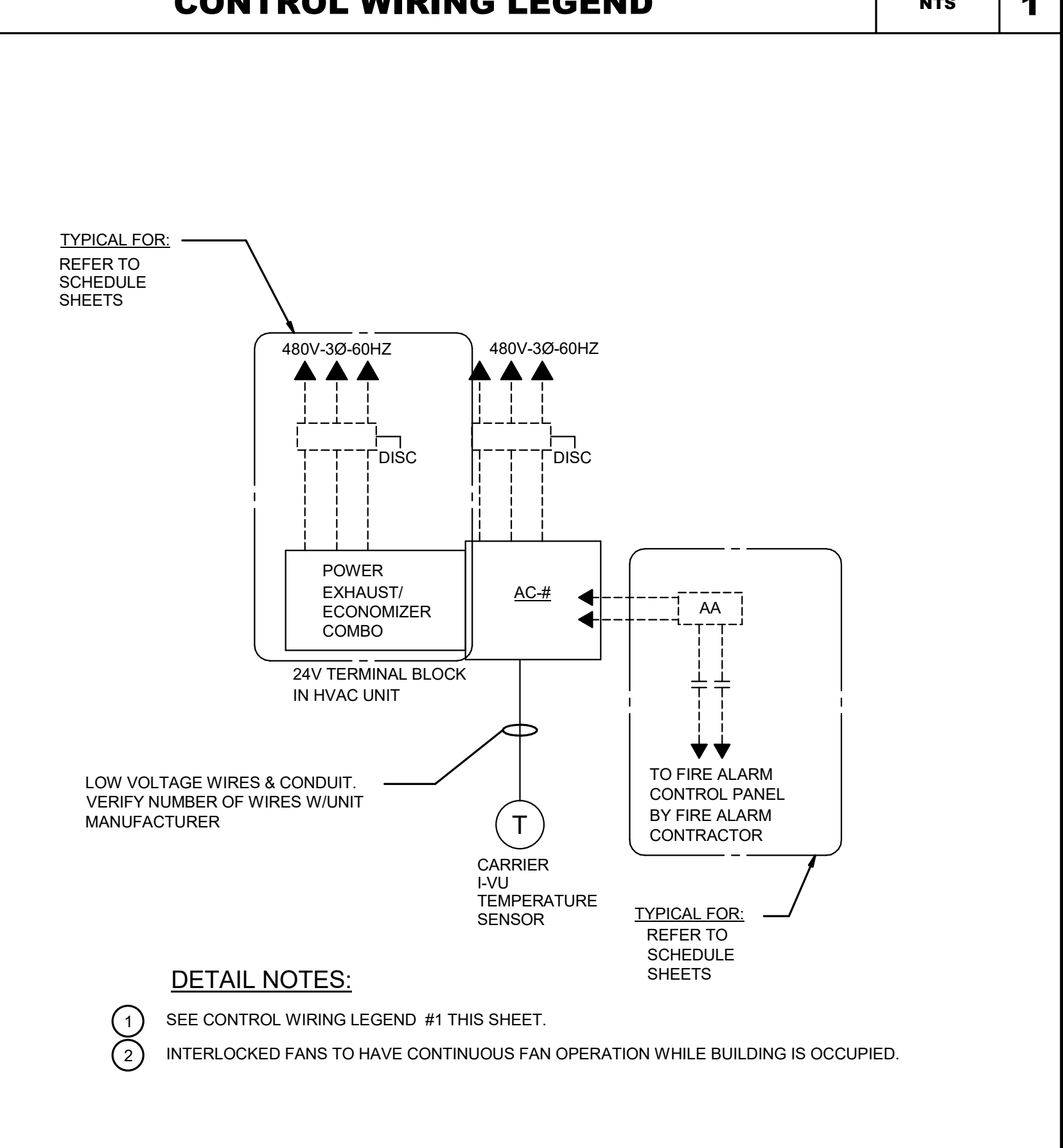
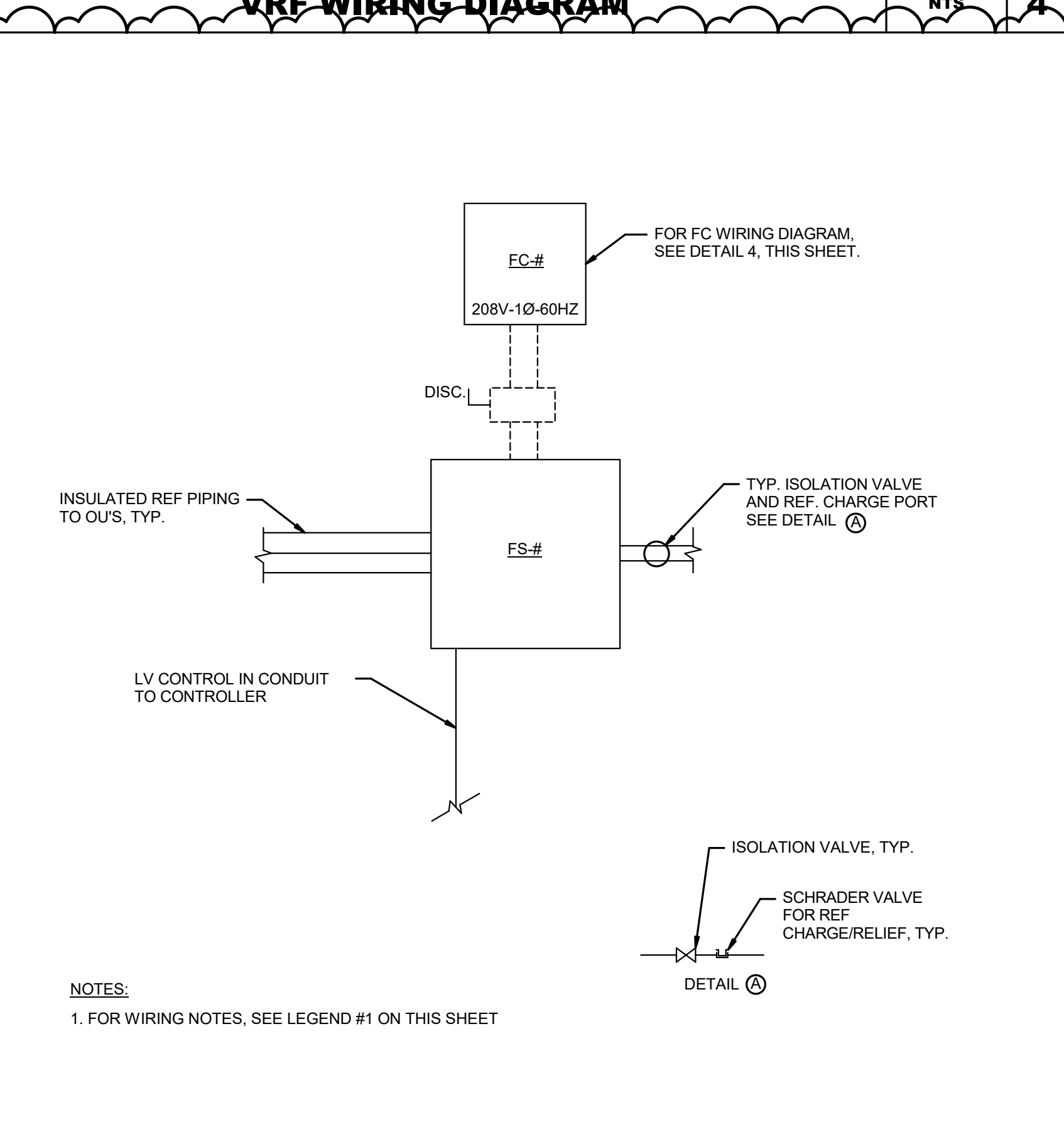
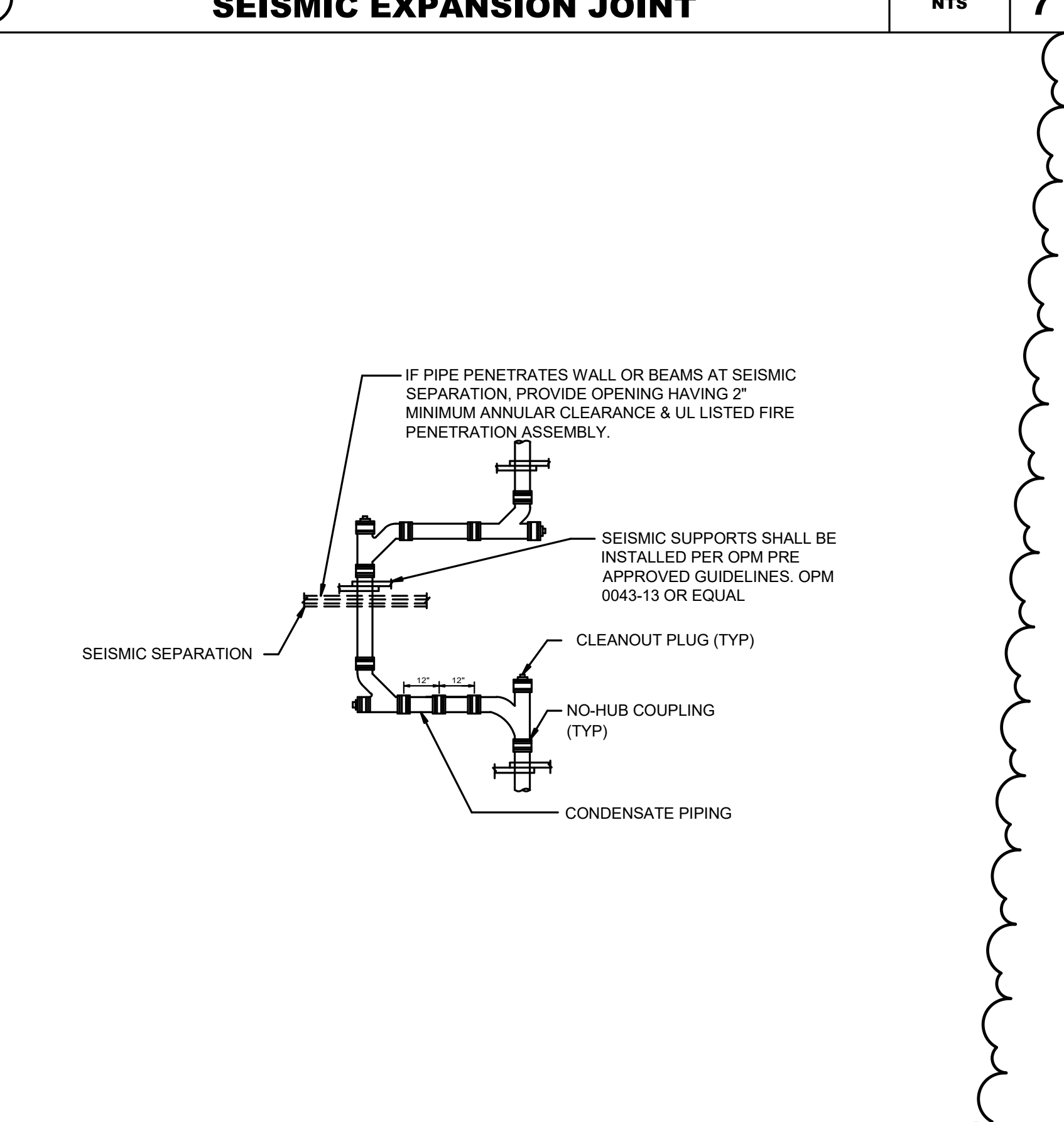
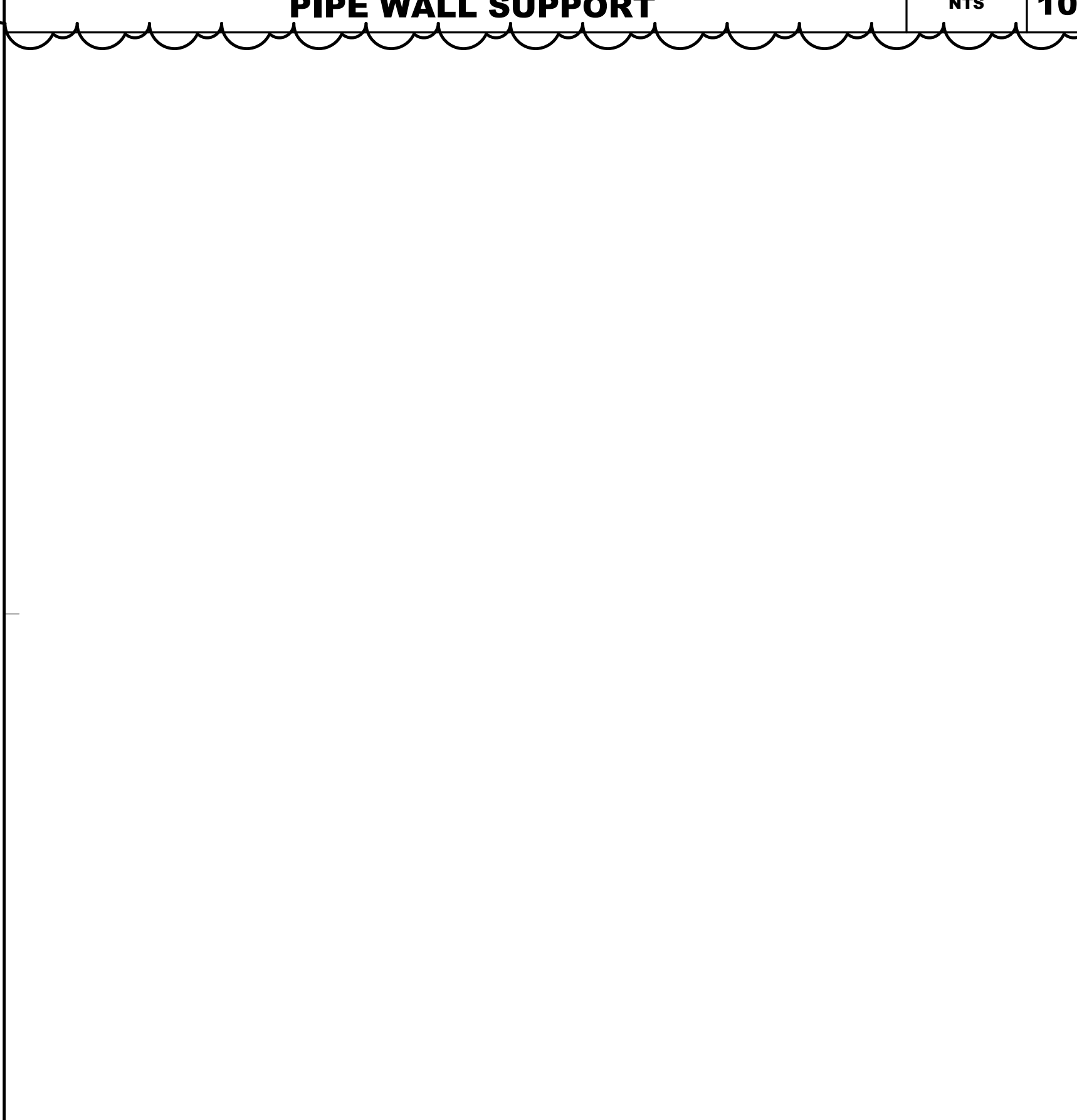
SEISMIC EXPANSION JOINT NTS 7



VRF WIRING DIAGRAM NTS 4



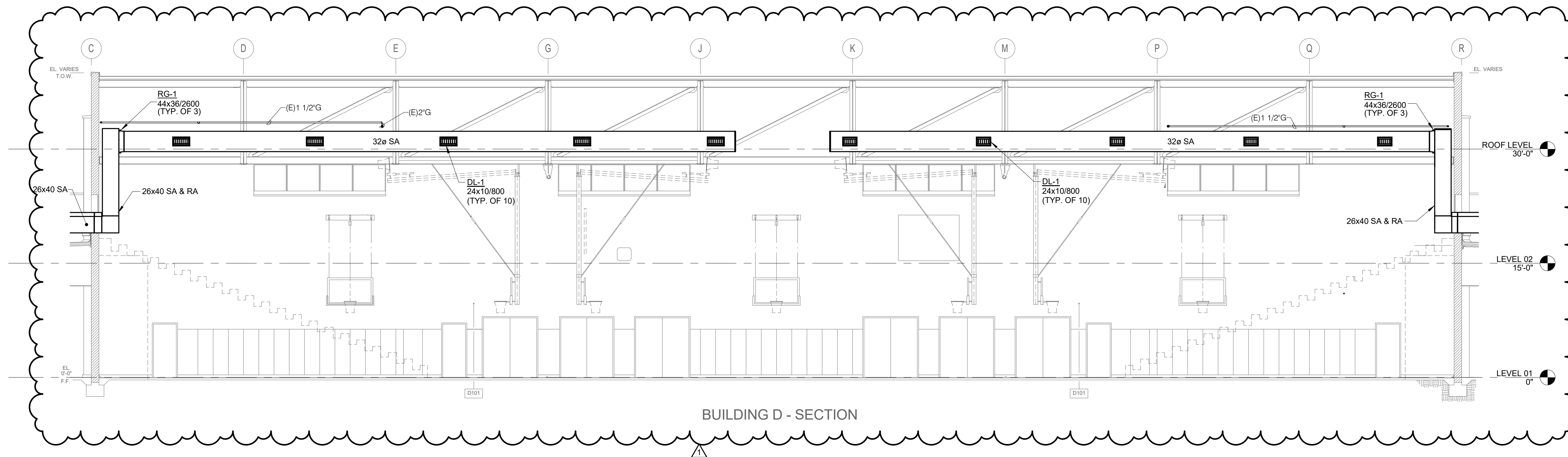
CONTROL WIRING LEGEND NTS 1



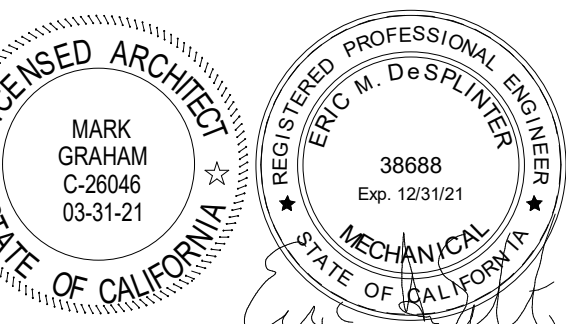


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BUILDING D - SECTION



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SECTIONS

DRAWING NUMBER: **MP6.1**

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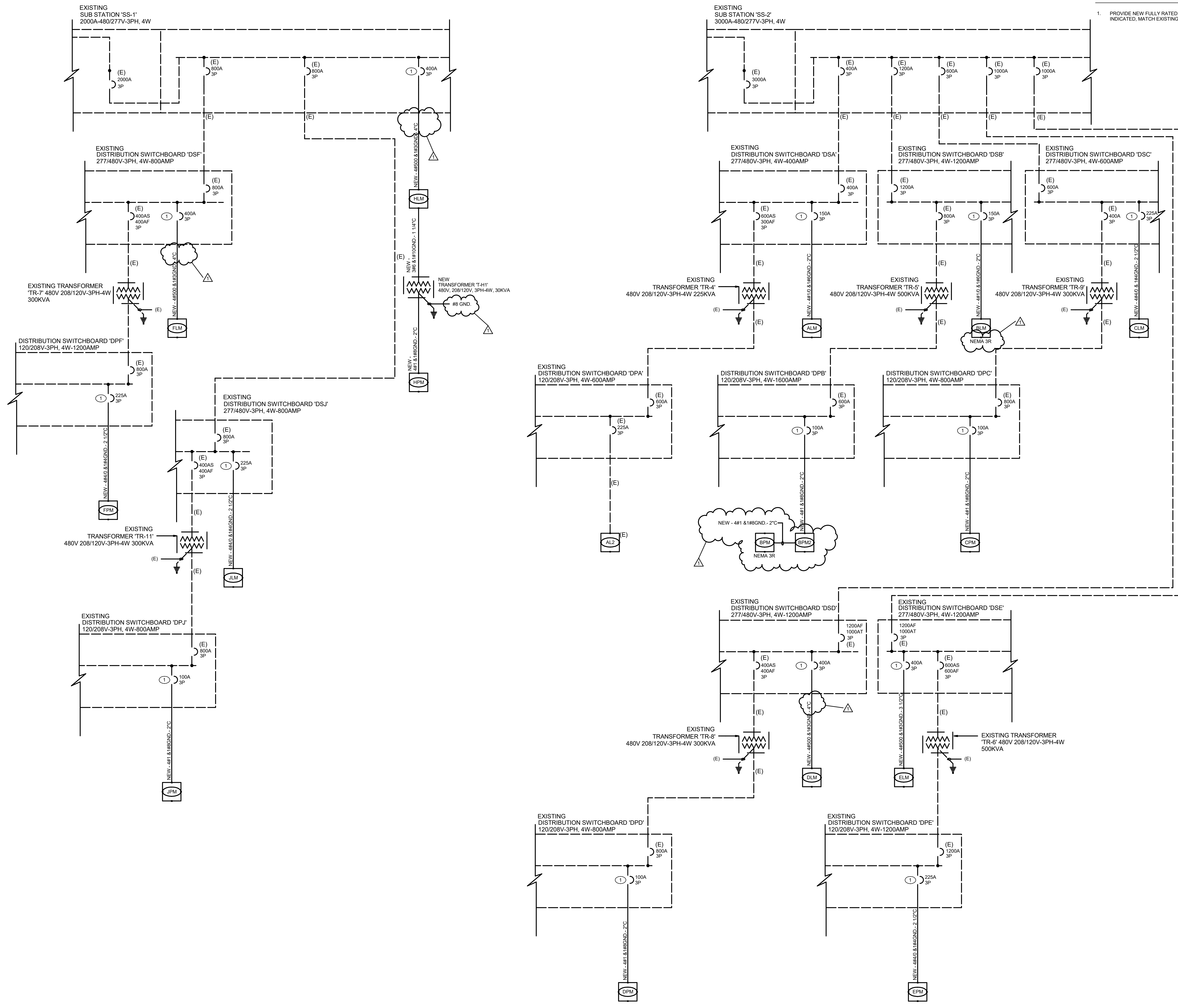
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DATE: Issue Date	SCALE:
PROJECT NUMBER:	Project Number

SINGLE LINE DIAGRAM

DRAWING NUMBER: **E0.2**

KEYED NOTES

- PROVIDE NEW FULLY RATED BREAKER WITH MOUNTING KITS AS INDICATED. MATCH EXISTING MANUFACTURER AND RATING.

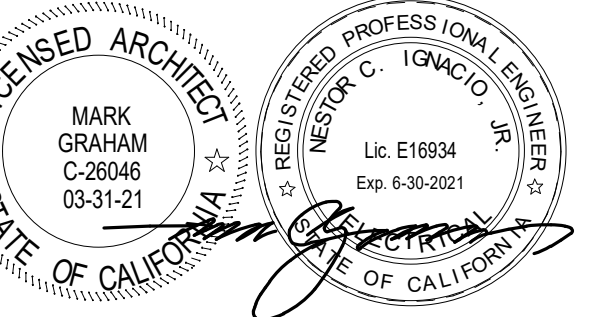


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DRAWN: Author CHECKED: Checker
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PROJECT NUMBER: Project Number

PANEL SCHEDULES

DRAWING NUMBER: **E0.4**

GENERAL NOTES:
 WHERE LOCK-ON DEVICE IS PROVIDED
 • BREAKER SHALL BE RED IN COLOR
 • IDENTIFIED AS FIRE ALARM CIRCUIT
 • LOCATION OF CB SHALL BE PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT

PANEL NAME: DLM

CONNECTED TO: 241 KVA
MAIN: 400A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 307.32 KVA

Panel Notes:

CKT NO.	LOAD DESCRIPTION	OVERCURRENT PROTECTION AMPS	WIRE ID	A	B	C	WIRE ID	OVERCURRENT PROTECTION AMPS	LOAD DESCRIPTION	CKT NO.	
1	AC-D1	15 A	3	3.6	14.13			3	50 A	AC-D3	2
3					3.6	14.13					4
5								3.6	14.13		6
7	AC-D1 Power Exhaust	15 A	3	0.5	2.22			3	15 A	AC-D3 Power Exhaust	8
9				0.5	2.22						10
11						0.5	2.22				12
13	AC-D2	15 A	3	3.6	14.28			3	50 A	AC-D4	14
15					3.6	14.28					16
17						3.6	14.28				18
19	AC-D2 Power Exhaust	15 A	3	0.5	2.22			3	15 A	AC-D4 Power Exhaust	20
21				0.5	2.22						22
23						0.5	2.22				24
25	AC-D6	50 A	3	14.28	2.22			3	15 A	AC-D7	26
27				14.28	2.22						28
29					14.28	2.22					30
31	AC-D8 Power Exhaust	15 A	3	3.05	14.28			3	50 A	AC-D5	32
33				3.05	14.28						34
35						3.05	14.28				36
37	AC-D14	25 A	3	5.54	2.22			3	15 A	AC-D5 Power Exhaust	38
39				5.54	2.22						40
41					5.54	2.22					42
43	AC-D14 Power Exhaust	15 A	3	0.66	6.93			3	30 A	AC-D11	44
45				0.66	6.93						46
47					0.66	6.93					48
49	AC-D13	15 A	3	2.77	0.5			3	15 A	AC-D11 Power Exhaust	50
51				2.77	0.5						52
53					2.77	0.5					54
55	AC-D8	25 A	3	5.54	2.77			3	20 A	AC-D10	56
57				5.54	2.77						58
59						5.54	2.77				60
61	AC-D8 Power Exhaust	15 A	3	0.66	0					SPACE	62
63				0.66	0					SPACE	64
65					0.66	0				SPACE	66
67	SPACE			0	0					SPACE	68
69	SPACE			0	0					SPACE	70
71	SPACE			0	0					SPACE	72
Total Load:				102.44 kVA	102.44 kVA	102.44 kVA					
Total Amps:				369.82	369.82	369.82					

PANEL NAME: JLM

CONNECTED TO: 241 KVA
MAIN: 225A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 224.51 KVA

Panel Notes:

CKT NO.	LOAD DESCRIPTION	OVERCURRENT PROTECTION AMPS	WIRE ID	A	B	C	WIRE ID	OVERCURRENT PROTECTION AMPS	LOAD DESCRIPTION	CKT NO.	
1	AC-J1	15 A	3	3.6	3.05			3	15 A	AC-J1	2
3				3.6	3.05						4
5					3.6	3.05					6
7	AC-J1 Power Exhaust	15 A	3	0.5	3.05			3	15 A	AC-J3	8
9				0.5	3.05						10
11					0.5	3.05					12
13	AC-J4	15 A	3	3.05	3.05			3	15 A	AC-J8	14
15				3.05	3.05						16
17					3.05	3.05					18
19	AC-J7	15 A	3	3.05	3.05			3	15 A	AC-J6	20
21				3.05	3.05						22
23					3.05	3.05					24
25	AC-J5	15 A	3	3.05	3.05			3	15 A	AC-J10	26
27				3.05	3.05						28
29					3.05	3.05					30
31	AC-J9	15 A	3	3.6	3.05			3	15 A	AC-J11	32
33				3.6	3.05						34
35					3.6	3.05					36
37	AC-J9 Power Exhaust	15 A	3	0.5	3.05			3	15 A	AC-J12	38
39				0.5	3.05						40
41					0.5	3.05					42
43	AC-J13	15 A	3	2.77	3.05			3	15 A	AC-J14	44
45				2.77	3.05						46
47					2.77	3.05					48
49	AC-J15	15 A	3	3.6	3.37			3	30 A	AC-J16	50
51				3.6	3.37						52
53					3.6	3.37					54
55	AC-J15 Power Exhaust	15 A	3	0.5	10.8			3	20 A	AC-J19	56
57				0.5	10.8						58
59					0.5	10.8					60
61	AC-J18	25 A	3	6.37	3.04			3	20 A	AC-17	62
63				6.37	3.04						64
65					6.37	3.04					66
67	AC-J18 Power Exhaust	20 A	3	0.5	6.37			3	20 A	AC-20	68
69				0.5	6.37						70
71					0.5	6.37					72
Total Load:				82.03 kVA	71.24 kVA	71.24 kVA					
Total Amps:				296.14	257.17	257.17					

PANEL NAME: FLM

CONNECTED TO: 273.28 KVA
MAIN: 400A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 273.28 KVA

Panel Notes:

CKT NO.	LOAD DESCRIPTION	OVERCURRENT PROTECTION AMPS	WIRE ID	A	B	C	WIRE ID	OVERCURRENT PROTECTION AMPS	LOAD DESCRIPTION	CKT NO.	
1	OU-F1 MOD 1	30 A	3	6.48	8.22			3	35 A	OU-F4 MOD 1	2
3				6.48	8.22						4
5					6.48	8.22					6
7	OU-F1 MOD 2	30 A	3	6.48	6.48			3	30 A	OU-F4 MOD 2	8
9				6.48	6.48						10
11					6.48	6.48					12
13	OU-F1 MOD 3	25 A	3	6.48	6.48			3	30 A	OU-F4 MOD 3	14
15				6.48	6.48						16
17					6.48	6.48					18
19	OU-F2 MOD 1	30 A	3	6.48	2.91			3	15 A	ERV-F1	20
21				6.48	2.91						22
23					6.48	2.91					24
25	OU-F2 MOD 2	25 A	3	6.48	2.91			3	15 A	ERV-F2	26
27				6.48	2.91						28
29					6.48	2.91					30
31	OU-F2 MOD 3	25 A	3	6.48	2.91			3	15 A	ERV-F4	32
33				6.48	2.91						34
35					6.48	2.91					36
37	OU-F3 MOD 1	30 A	3	6.48	2.91			3	15 A	ERV-F3	38
39				6.48	2.91						40
41					6.48	2.91					42
43	OU-F3 MOD 2	30 A	3	6.48	0					SPACE	44
45				6.48	0					SPACE	46
47					6.48	0				SPACE	48
49	OU-F3 MOD 3	25 A	3	6.48	0					SPACE	50
51				6.48	0					SPACE	52
53					6.48	0				SPACE	54
55	SPACE			0	0					SPACE	56
57	SPACE			0	0					SPACE	58
59	SPACE			0	0					SPACE	60
61	SPACE			0	0					SPACE	62
63	SPACE			0	0					SPACE	64
65	SPACE			0	0					SPACE	66
67	SPACE			0	0					SPACE	68
69	SPACE			0	0					SPACE	70
71	SPACE			0	0					SPACE	72
Total Load:				91.09 kVA	91.09 kVA	91.09 kVA					
Total Amps:				328.86	328.86	328.86					

PANEL NAME: HLM

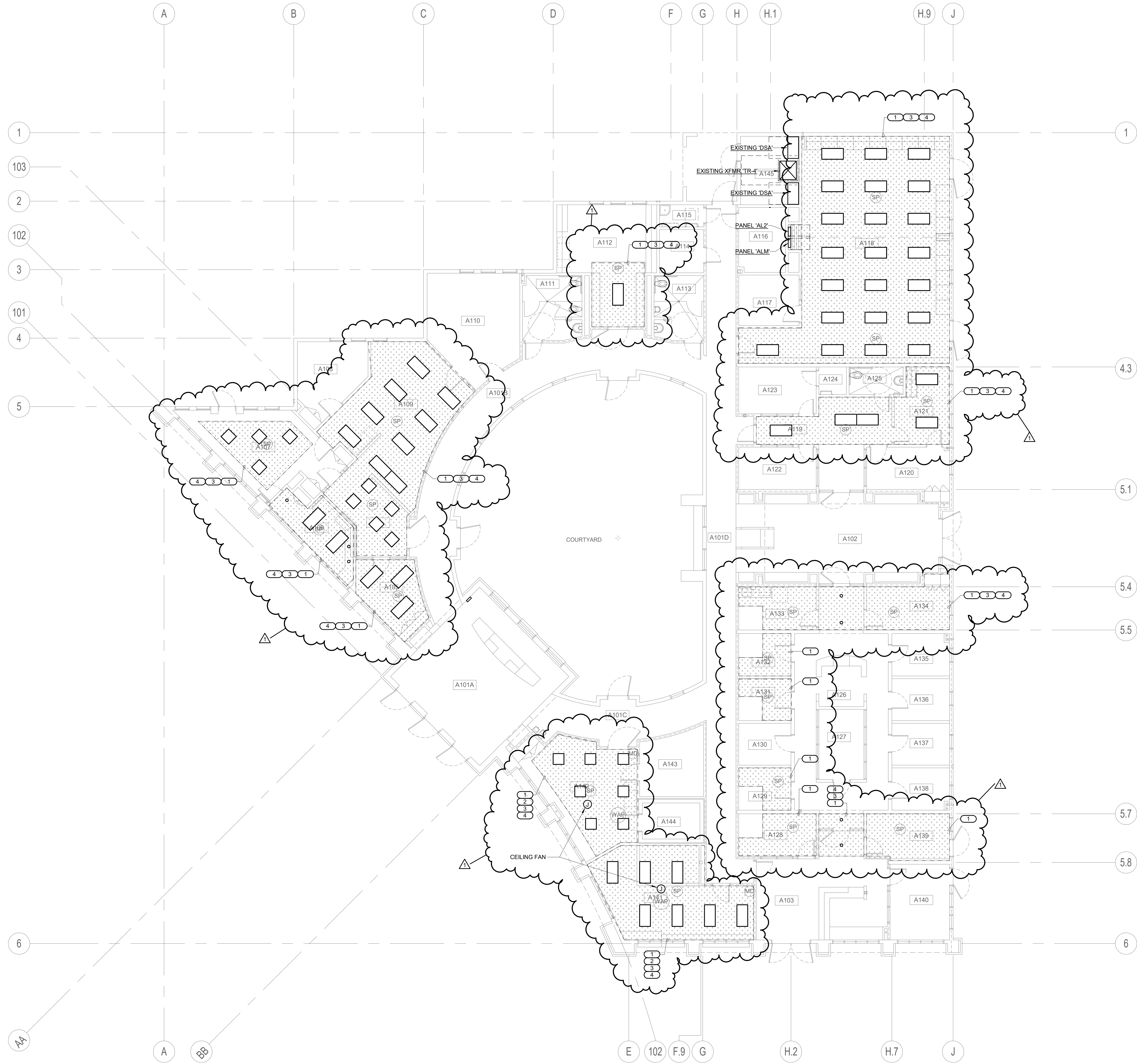
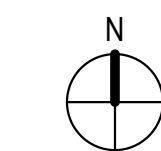
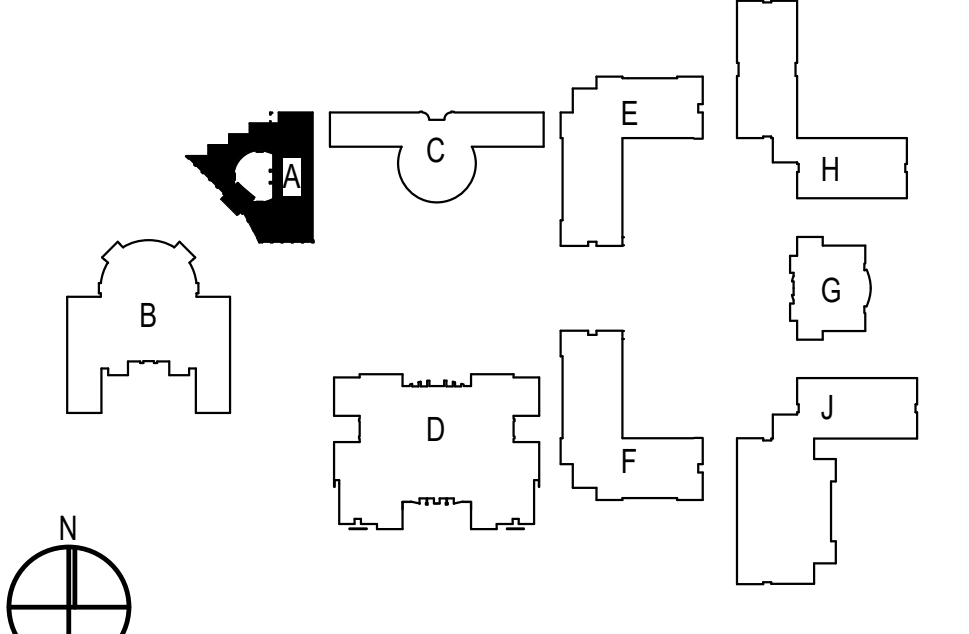
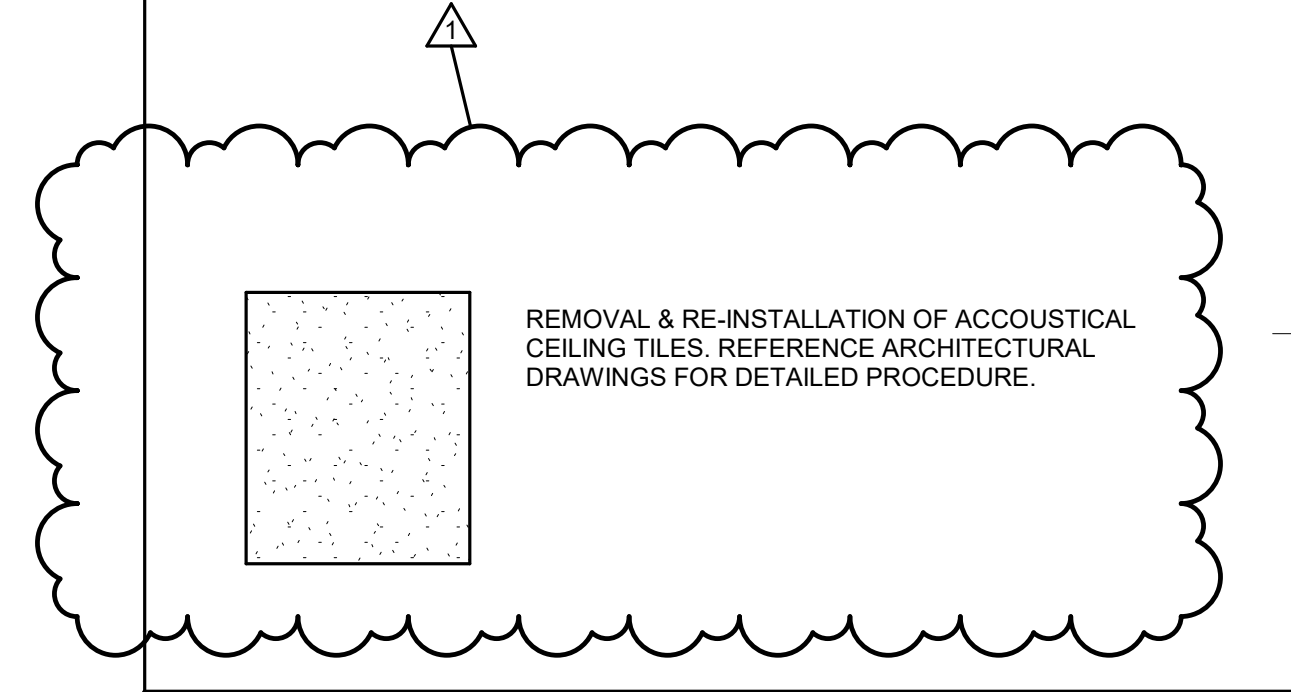
CONNECTED TO: 192.02 KVA
MAIN: 400A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 192.02 KVA

Panel Notes:

CKT NO.	LOAD DESCRIPTION	OVERCURRENT PROTECTION AMPS	WIRE ID	A	B	C	WIRE ID	OVERCURRENT PROTECTION AMPS	LOAD DESCRIPTION	CKT NO.	
1	AC-H17	15 A	3	3.05	3.05			3	15 A	AC-H16	2
3				3.05	3.05						4
5					3.05	3.05					6
7	AC-H15	15 A	3	3.05	3.05			3	15 A	AC-H14	8
9				3.05	3.05						10
11					3.05	3.05					12
13	AC-H10	15 A	3	3.05	3.05			3	15 A	AC-H11	14
15				3.05	3.05						16
17					3.05	3.05					18
19	AC-H12	15 A	3	3.05	3.05			3	15 A	AC-H13	20
21				3.05	3.05						22
23					3.05	3.05					24
25	AC-H9	15 A	3	3.05	3.05			3	15 A	AC-H9	26
27				3.05	3.05						28
29					3.05	3.05					30
31	AC-H7	15 A	3	3.6	3.6			3	15 A	AC-H6	32
33				3.6	3.6						34
35					3.6	3.6					36
37	AC-H7 Power Exhaust	15 A	3	0.5	0.5			3	15 A	AC-H6 Power Exhaust	38
39				0.5	0.5						40
41					0.5	0.5					42
43	AC-H5	15 A	3	3.05	3.05			3	20 A	AC-H2	44
45				3.05	3.05						46
47					3.05	3.05					48
49	AC-H4 Power Exhaust	15 A	3	0.5	3.05			3	20 A	AC-H1	50
51				0.5	3.05						

KEYED NOTES

- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- CEILING FAN AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE CEILING FAN AND SALVAGE FOR FUTURE RE-INSTALLATION.
 - REMOVE POWER TO FAN BACK TO JUNCTION BOX. IDENTIFY FAN (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX.
 - RE-INSTALL CEILING FAN WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION SHALL BE PERFORMED AND FAN SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED CEILING AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON NEW ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING FIXTURES/EXIT SIGNS AFFECTED DURING REMOVAL/INSTALLATION OF NEW ACOUSTICAL CEILING.
 - REMOVE LIGHT FIXTURES AND SALVAGE FOR FUTURE RE-INSTALLATION.
 - REMOVE POWER TO FIXTURES BACK TO JUNCTION BOX FEEDING AREA.
 - RE-INSTALL FIXTURES BACK ON NEW ACOUSTICAL CEILING. LAYOUT SHALL REMAIN THE SAME AS EXISTING PRIOR TO ACOUSTICAL CEILING DEMOLITION.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.



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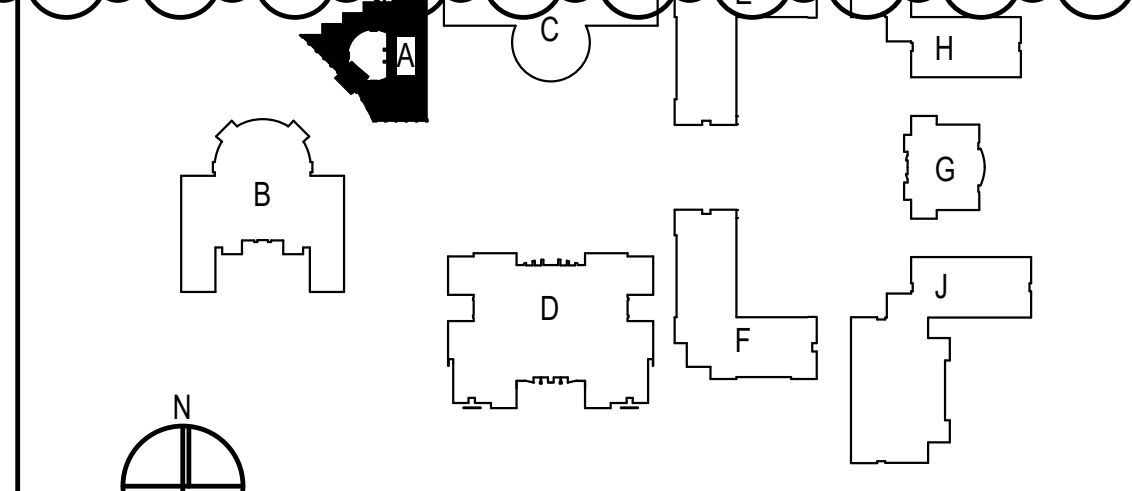
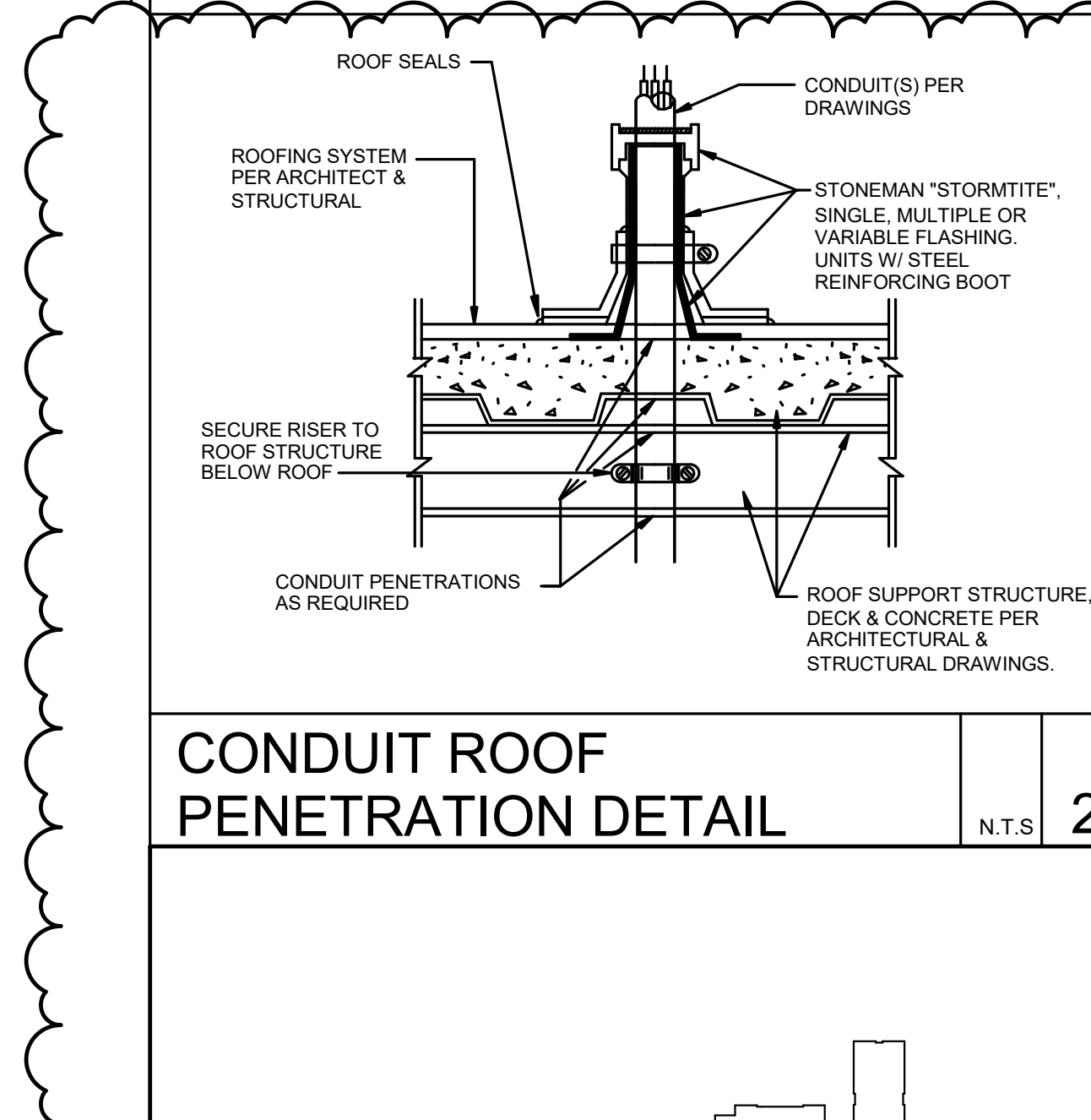
EQUIPMENT CONNECTION SCHEDULE BUILDING - A						POWER EXHAUST					
ITEM NO.	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	
AC-A1	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C	
AC-A2	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-A3	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-A4	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-A5	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-A6	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-A7	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-A8	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-A9	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C	
AC-A10	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-A11	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C	

GENERAL NOTES

- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 5B RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

KEYED NOTES

- PROVIDE 3/4" Ø (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING HV UNIT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.
- INTERLOCK WITH EXISTING EF-4A. PROVIDE NEW WIRE: 2#12 & 1#12 GND-3/4". PROVIDE A NEW STARTER AND RELAY. COORDINATE WITH LOW VOLTAGE CONSULTANT.



NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1

DRAWN:	CHECKED:
Author	Checker

DATE:	Issue Date	SCALE:	1/8" = 1'-0"
PROJECT NUMBER:	Project Number		

BUILDING A REMODEL ROOF PLAN

DRAWING NUMBER: **EA3.1**

ARCHITECTS
WLC
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RANCHO CUCAMONGA
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OXNARD UNION HIGH SCHOOL DISTRICT
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OXNARD, CA 93036

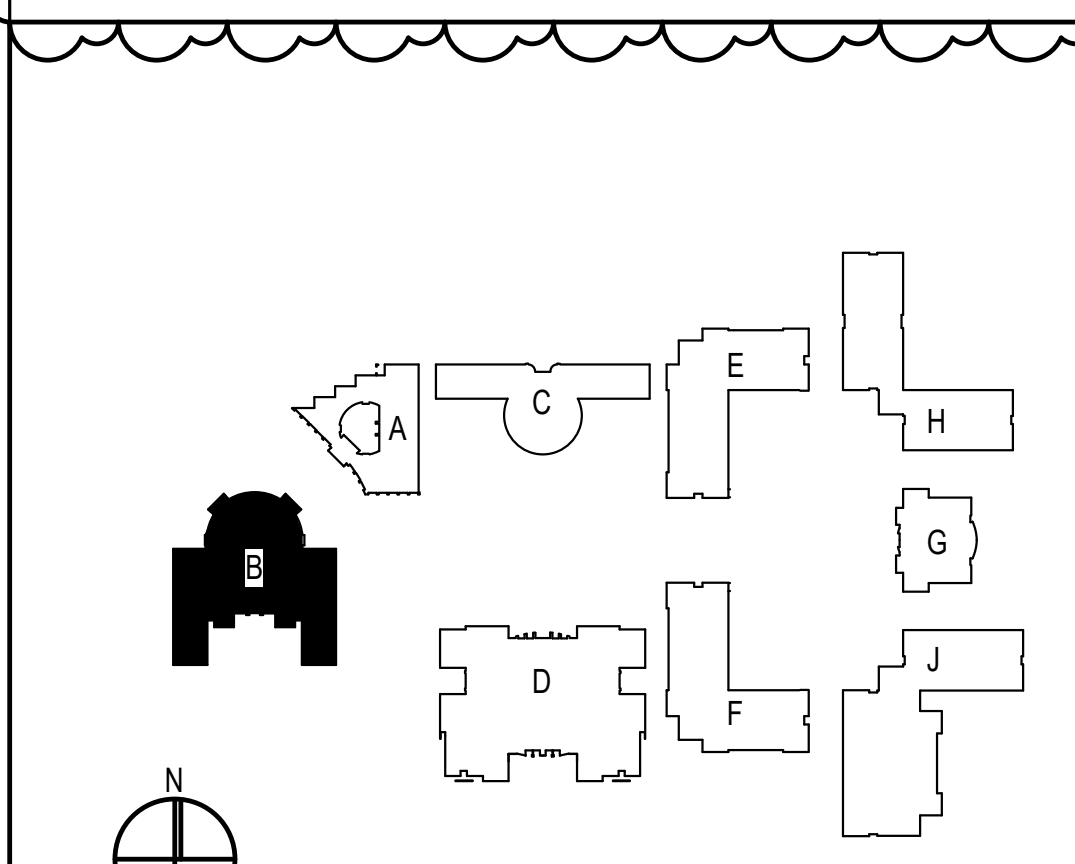
LICENSED ARCHITECT
MARK GRAHAM
C-26546
03-31-21
REGISTERED PROFESSIONAL ENGINEER
RESPECTOR C. 104010
Lic. E18934
Exp. 6-30-2021
STATE OF CALIFORNIA

CONSULTANT
IMEG
901 VIA PIEMONTE SUITE 400
ONTARIO, CA 91764
909-477-6915 FAX: 909-477-6916
www.imegcorp.com # 19002942.00

KEYED NOTES

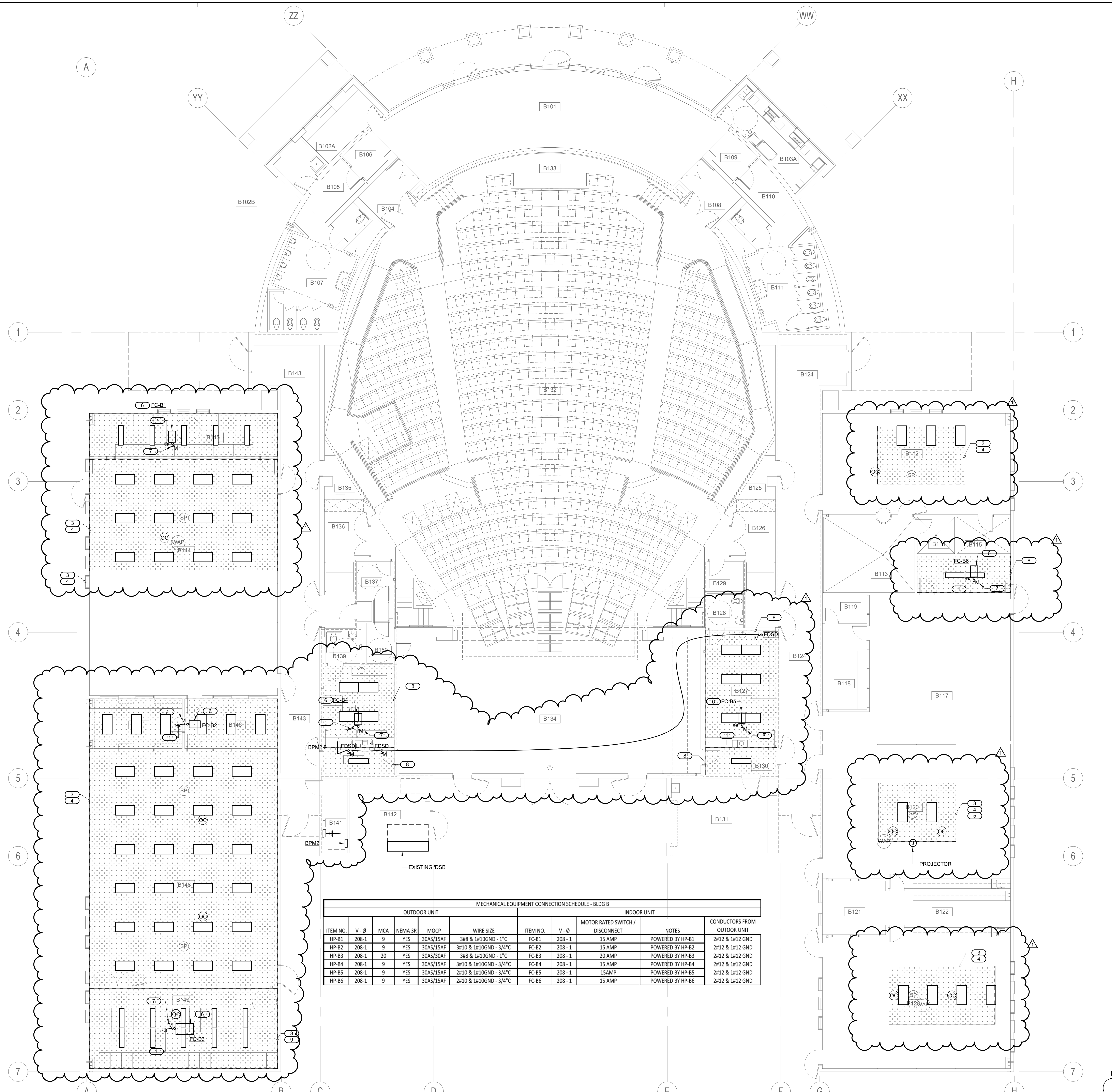
- INTERCONNECT WITH ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL WIRING DIAGRAMS.
- PROVIDE DEDICATED 120V CIRCUIT POWER SOURCE TO NEAREST AVAILABLE CIRCUIT. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL INDICATING FIRE ALARM TO CIRCUIT ID.
- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROJECTOR AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE RECEPTACLE POWERING PROJECTOR (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX.
 - RE-INSTALL POWER OUTLET WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF OUTLET SHALL BE PERFORMED AND OUTLET SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR ELECTRICAL CONDUIT PROVIDE NEW CONDUCTORS FROM NEW JUNCTION BOXES AND SPLICE CONDUCTORS TO BE EXTENDED. MATCH EXISTING CONDUCTORS TO BE SPLICED.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
 - FOR TECHNOLOGY/LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.
- INSTALL MOTOR RATED SWITCH ON OR NEXT TO MECHANICAL UNIT. SWITCH SHALL HAVE THREE FEET CLEARANCE IN FRONT FOR SERVICE CLEARANCE.
- LIGHT FIXTURE AFFECTED DURING REMOVAL/RE-INSTALLATION OF CEILING.
 - REMOVE LIGHT FIXTURE AND SALVAGE FOR FUTURE RE-INSTALLATION.
 - REMOVE POWER TO FIXTURES BACK TO JUNCTION BOX AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX. MOUNT JUNCTION BOX ON AREA NOT AFFECTED FOR MAINTAINING WORKING CLEARANCE.
 - RE-INSTALL LIGHT FIXTURE WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF LIGHT FIXTURE SHALL BE PERFORMED AND LIGHT FIXTURE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM CEILING.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON NEW CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.

REMOVAL & RE-INSTALLATION OF CEILING. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



SITE KEY PLAN

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - BLDG B										
OUTDOOR UNIT					INDOOR UNIT					
ITEM NO.	V-Ø	MCA	NEMA 3R	MOCF	WIRE SIZE	ITEM NO.	V-Ø	MOTOR RATED SWITCH / DISCONNECT	NOTES	CONDUCTORS FROM OUTDOOR UNIT
HP-B1	208-1	9	YES	30AS/15AF	3#8 & 1#10GND - 1/4"	FC-B1	208-1	15 AMP	POWERED BY HP-B1	2#12 & 1#12 GND
HP-B2	208-1	9	YES	30AS/15AF	3#10 & 1#10GND - 3/4"	FC-B2	208-1	15 AMP	POWERED BY HP-B2	2#12 & 1#12 GND
HP-B3	208-1	20	YES	30AS/20AF	3#8 & 1#10GND - 1/4"	FC-B3	208-1	20 AMP	POWERED BY HP-B3	2#12 & 1#12 GND
HP-B4	208-1	9	YES	30AS/15AF	3#10 & 1#10GND - 3/4"	FC-B4	208-1	15 AMP	POWERED BY HP-B4	2#12 & 1#12 GND
HP-B5	208-1	9	YES	30AS/15AF	2#10 & 1#10GND - 3/4"	FC-B5	208-1	15AMP	POWERED BY HP-B5	2#12 & 1#12 GND
HP-B6	208-1	9	YES	30AS/15AF	2#10 & 1#10GND - 3/4"	FC-B6	208-1	15 AMP	POWERED BY HP-B6	2#12 & 1#12 GND



BUILDING B REMODEL FLOOR PLAN 1/8" = 1'-0" 1

BUILDING B REMODEL FLOOR PLAN

DRAWING NUMBER: **EB2.1**

DATE PLOTTED: 03/11/2020 10:48 AM
DRAWN BY: M. GRAHAM
CHECKED BY: M. GRAHAM
DATE CHECKED: 03/11/2020 10:48 AM

NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1

NO	DATE	BY	DESCRIPTION

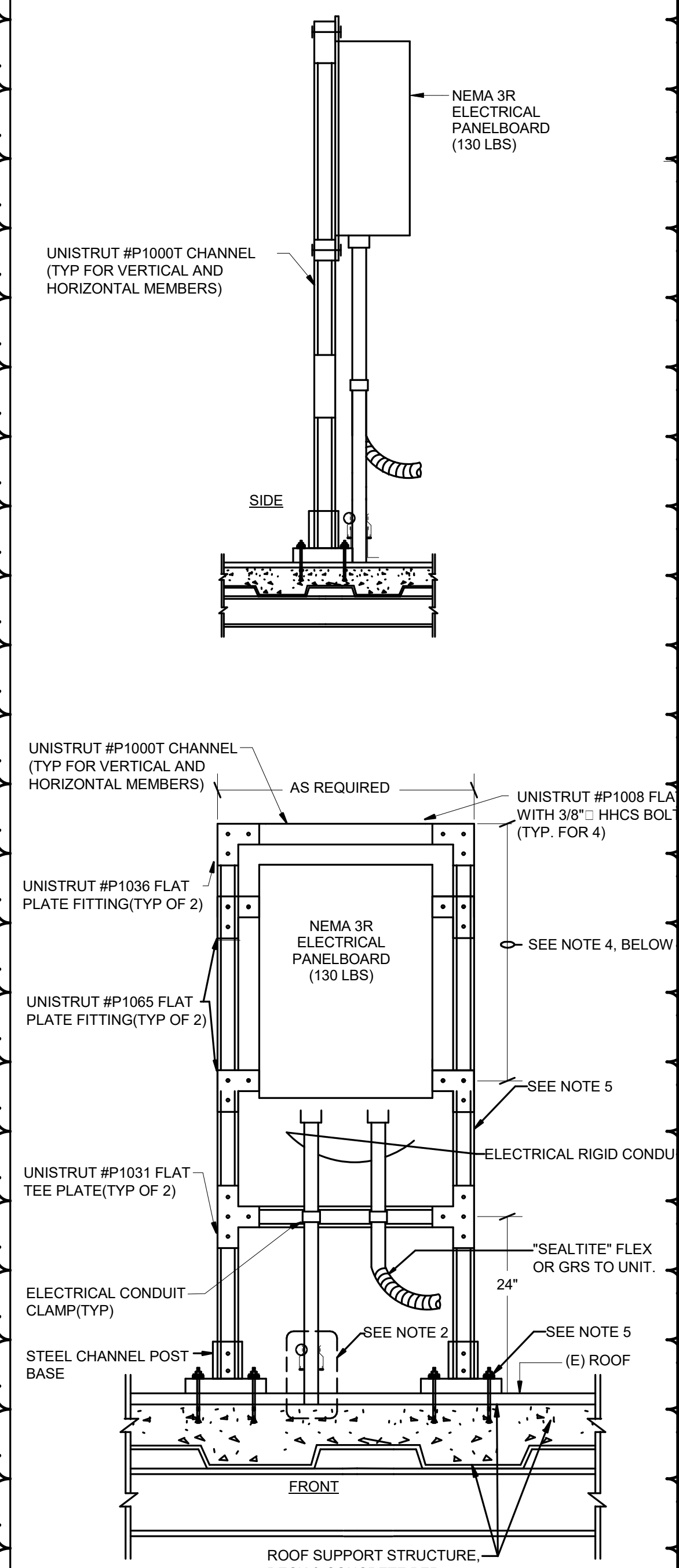
DRAWN:	CHECKED:
Author	Checker
DATE:	SCALE:
Issue Date	As indicated
PROJECT NUMBER:	Project Number

GENERAL NOTES

1. PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
2. ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, OFFICE MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
3. COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 5B RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM 4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.
4. REFER TO DETAIL 9 SHEET MP4.3 FOR FURTHER INFORMATION.

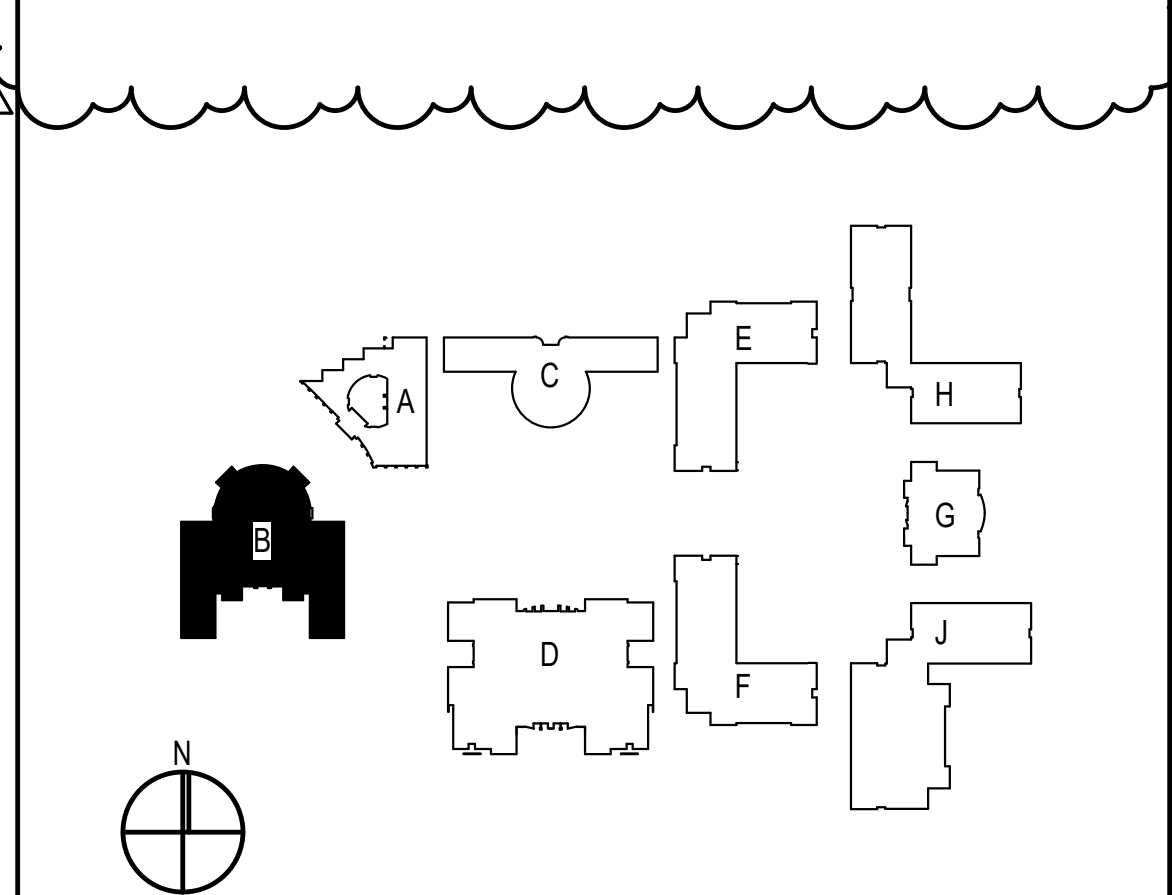
KEYED NOTES

1. PROVIDE 34°C O(S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
2. DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING HV UNIT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.
3. UNISTRUT MOUNTED PANELS. REFER TO DETAIL 2 SHEET EB3.1

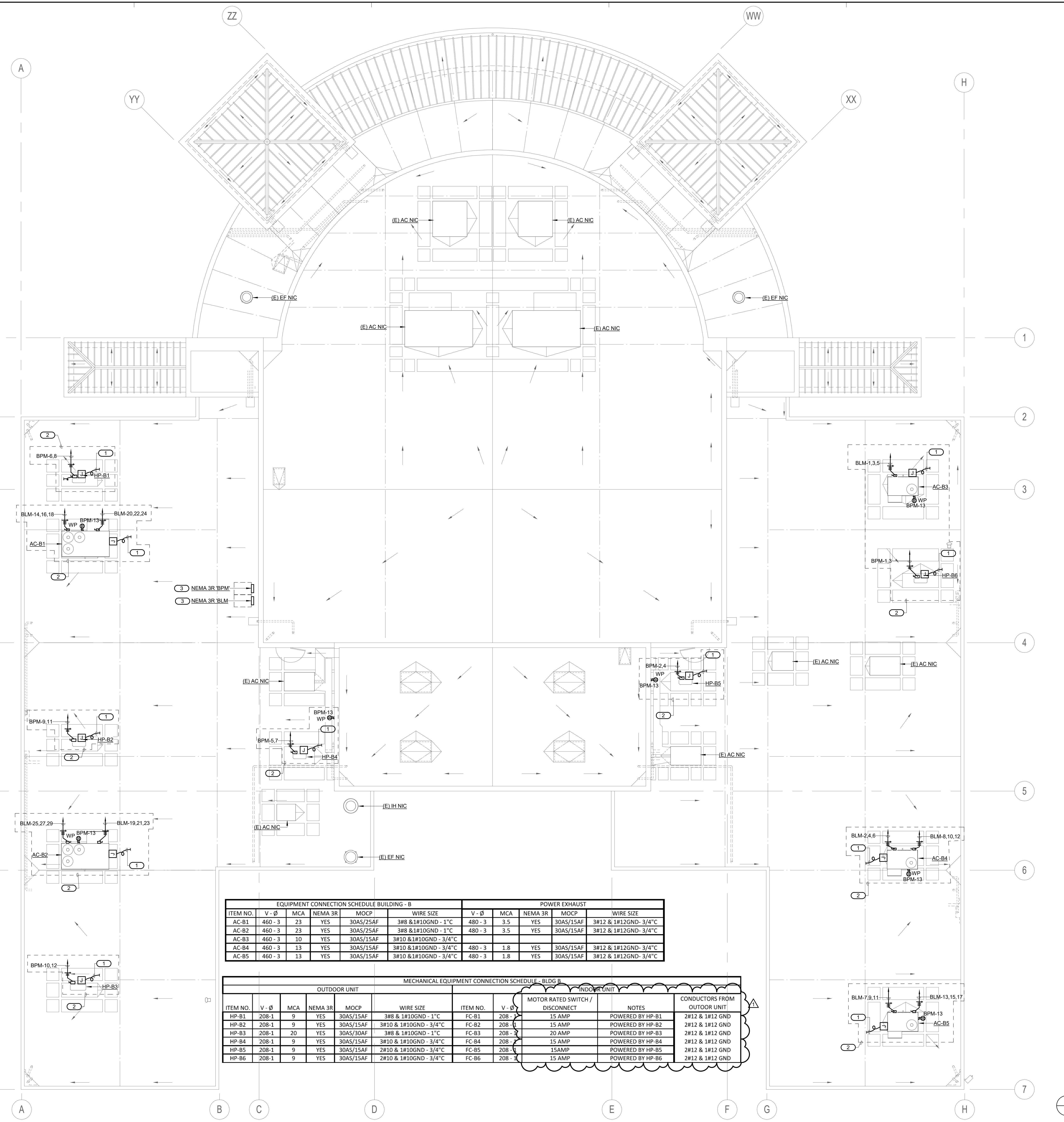


- NOTES:
1. PROVIDE 5/8 HILTI KB-TZ W/ 3-1/8 EMBED ESR - 1917. STEEL WASHER OVER (TYP OF 4) PRE-DRILL CONCRETE FOR DROP IN ANCHOR.
 2. REFERENCE CONDUIT PENETRATIONS FOR FURTHER INFORMATION.
 3. PROVIDE/INSTALL ALL UNISTRUT NUTS, STUD NUTS, SCREWS, WASHERS, LOCK WASHERS, ETC., AS REQUIRED FOR MOUNTING OF ALL UNISTRUT CHANNELS AND PLATES.
 4. HEIGHT AS REQUIRED, VERIFY HEIGHT WITH EQUIPMENT MANUFACTURER.

ELECTRICAL PANEL MOUNTING DETAIL N.T.S. 2

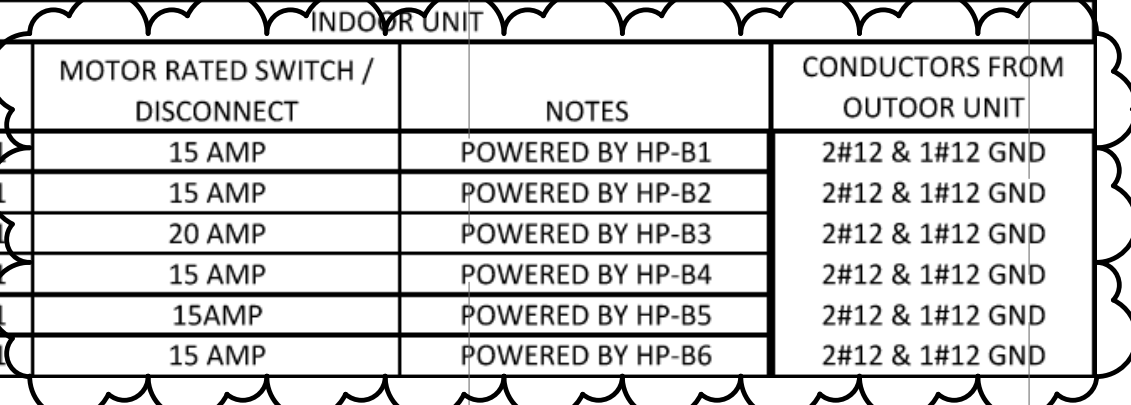


SITE KEY PLAN



EQUIPMENT CONNECTION SCHEDULE BUILDING - B						POWER EXHAUST					
ITEM NO.	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	
AC-B1	460 - 3	23	YES	30AS/25AF	3#8 & 1#10GND - 1" C	480 - 3	3.5	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C	
AC-B2	460 - 3	23	YES	30AS/25AF	3#8 & 1#10GND - 1" C	480 - 3	3.5	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C	
AC-B3	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C						
AC-B4	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C	
AC-B5	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C	

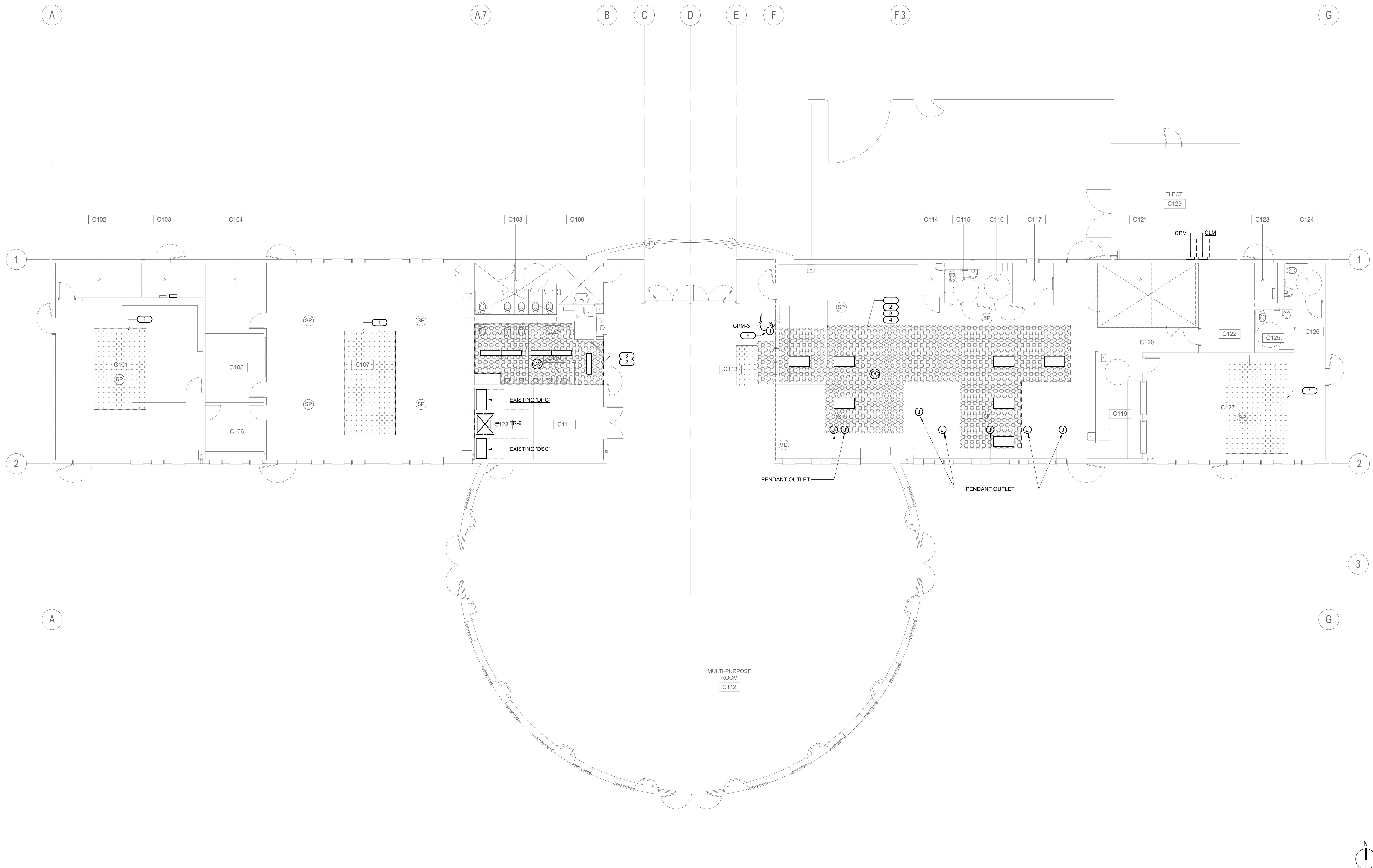
MECHANICAL EQUIPMENT CONNECTION SCHEDULE - BLDG B											
OUTDOOR UNIT						INDOOR UNIT					
ITEM NO.	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	ITEM NO.	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE
HP-B1	208-1	9	YES	30AS/15AF	3#8 & 1#10GND - 1" C	FC-B1	208-1	15 AMP	DISCONNECT		POWERED BY HP-B1
HP-B2	208-1	9	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	FC-B2	208-1	15 AMP	DISCONNECT		POWERED BY HP-B2
HP-B3	208-1	20	YES	30AS/30AF	3#8 & 1#10GND - 1" C	FC-B3	208-1	20 AMP	DISCONNECT		POWERED BY HP-B3
HP-B4	208-1	9	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	FC-B4	208-1	15 AMP	DISCONNECT		POWERED BY HP-B4
HP-B5	208-1	9	YES	30AS/15AF	2#10 & 1#10GND - 3/4" C	FC-B5	208-1	15 AMP	DISCONNECT		POWERED BY HP-B5
HP-B6	208-1	9	YES	30AS/15AF	2#10 & 1#10GND - 3/4" C	FC-B6	208-1	15 AMP	DISCONNECT		POWERED BY HP-B6



BUILDING B REMODEL ROOF PLAN 1/8" = 1'-0" 1

BUILDING B REMODEL ROOF PLAN

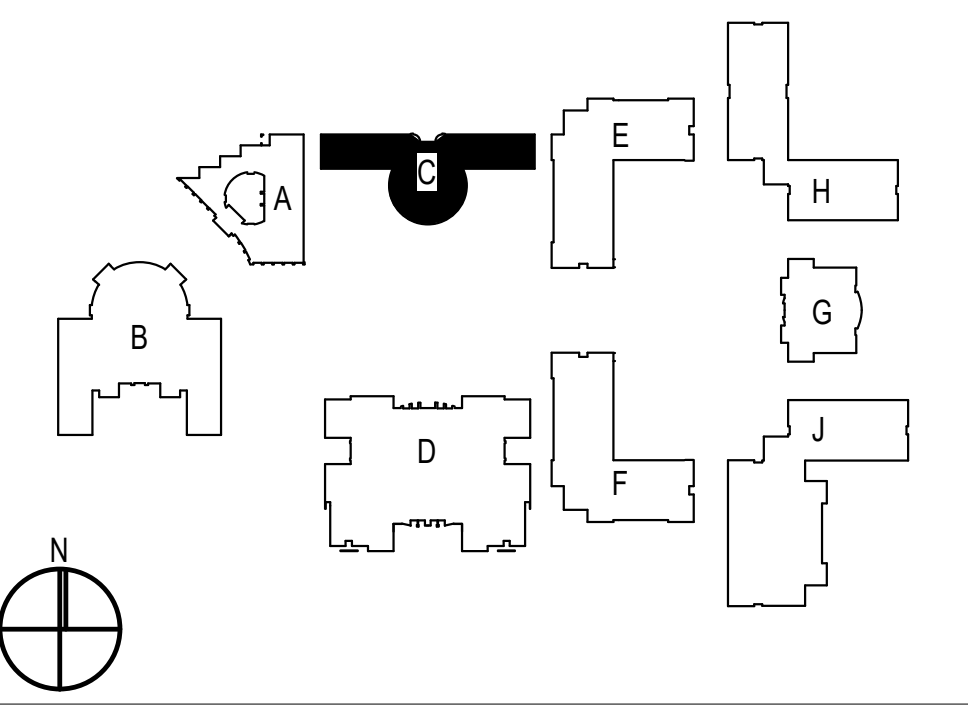
DRAWING NUMBER: **EB3.1**



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

KEYED NOTES

- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR, FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHT FIXTURE AFFECTED DURING REMOVAL/RE-INSTALLATION OF CEILING.
 - REMOVE LIGHT FIXTURE AND SALVAGE FOR FUTURE RE-INSTALLATION.
 - REMOVE POWER TO FIXTURES BACK TO JUNCTION BOX AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX. MOUNT JUNCTION BOX ON AREA NOT AFFECTED FOR MAINTAINING WORKING CLEARANCE.
 - RE-INSTALL LIGHT FIXTURE WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF LIGHT FIXTURE SHALL BE PERFORMED AND LIGHT FIXTURE SHALL BE FULLY OPERABLE.
- PENDANT OUTLET AFFECTED DURING REMOVAL/RE-INSTALLATION OF CEILING.
 - REMOVE PENDANT OUTLET ON STRAIN RELIEF CORD. IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX. AND MAINTAIN JUNCTION BOX ON NON AFFECTED CEILING FOR WORKING CLEARANCE REQUIREMENT.
 - RE-INSTALL PENDANT OUTLET WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF PENDANT OUTLET SHALL BE PERFORMED AND OUTLET SHALL BE FULLY OPERABLE.
- PROVIDE POWER FOR FIRE SMOKE DAMPER. REFERENCE FIRE ALARM DRAWINGS FOR EXACT LOCATION. PROVIDE MOTOR RATED SWITCH FOR DISCONNECT MEANS.



SITE KEY PLAN

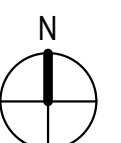
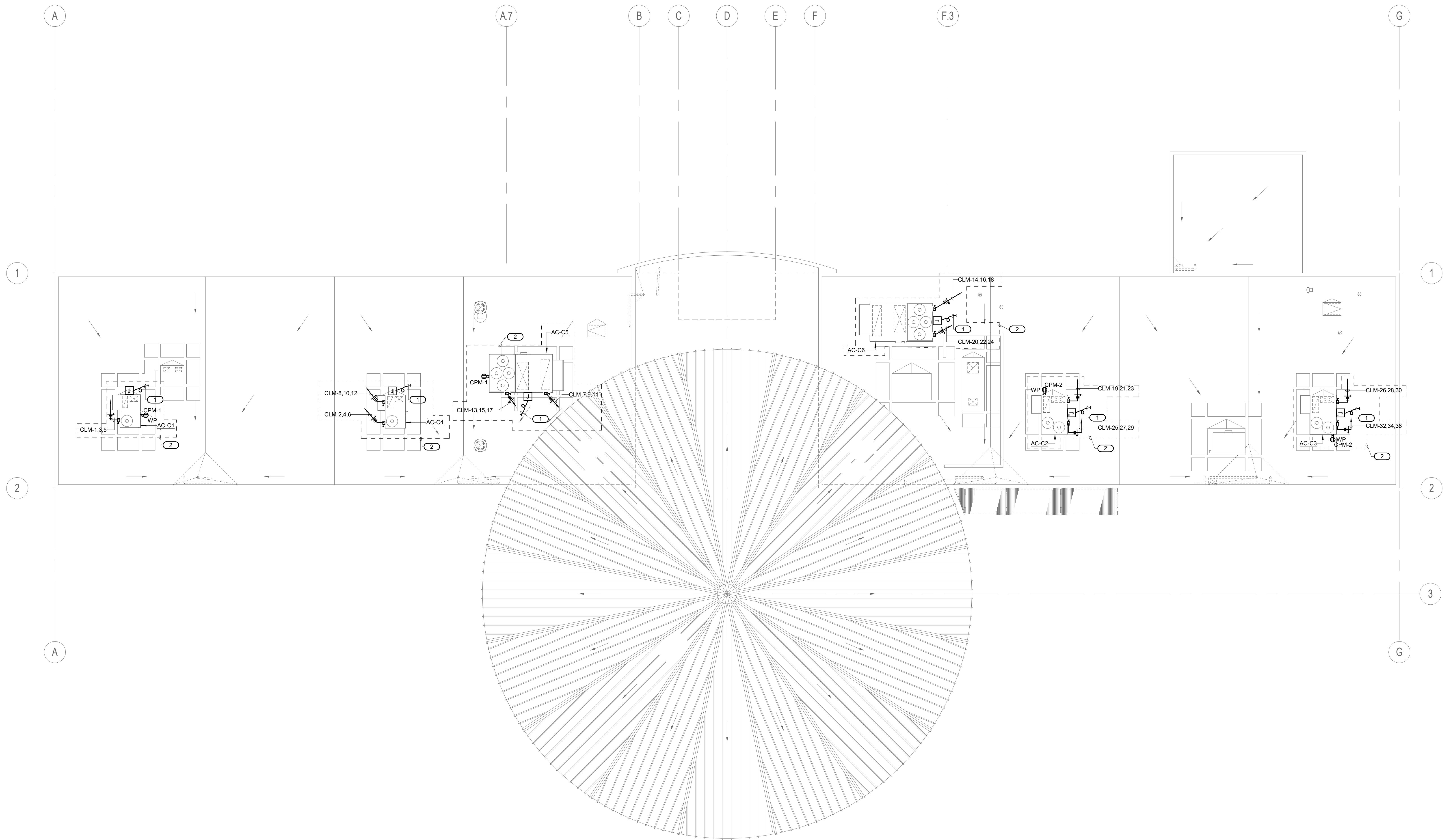
NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: As indicated
PROJECT NUMBER: Project Number	

**BUILDING C REMODEL
FIRST FLOOR PLAN**

DRAWING NUMBER: **EC2.1**

08/25/20 10:52 AM
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BUILDING C REMODEL ROOF PLAN 1/8" = 1'-0" 1

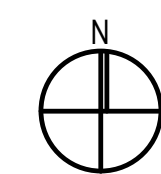
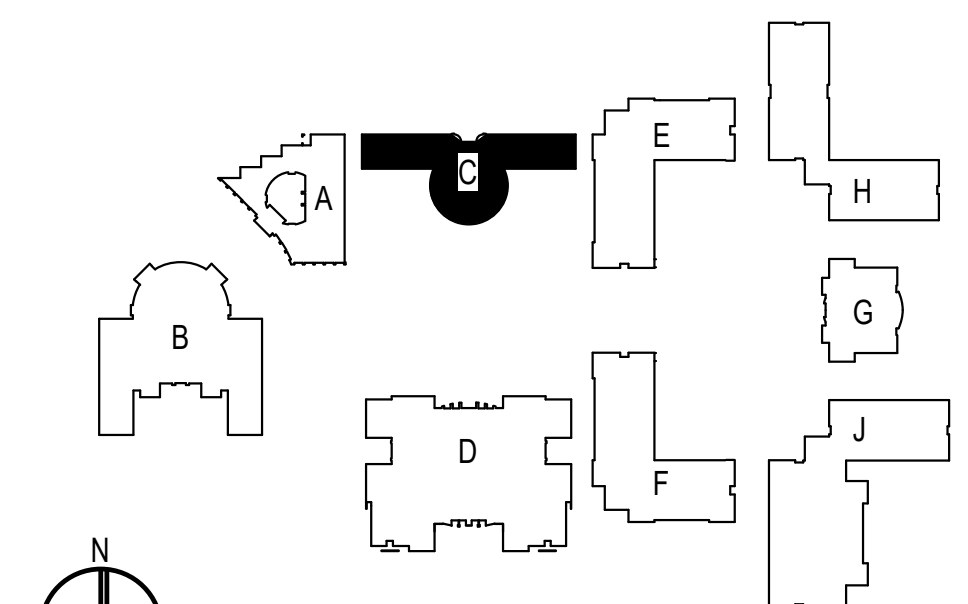
EQUIPMENT CONNECTION SCHEDULE BUILDING - C						POWER EXHAUST				
ITEM NO.	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE
AC-C1	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"C					
AC-C2	460 - 3	20	YES	30AS/25AF	3#8 & 1#10GND - 1"C	480 - 3	2.4	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C
AC-C3	460 - 3	20	YES	30AS/25AF	3#8 & 1#10GND - 1"C	480 - 3	2.4	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C
AC-C4	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4"C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C
AC-C5	460 - 3	43.1	YES	60AS/50AF	3#6 & 1#10GND - 1 1/4"C	480 - 3	5	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C
AC-C6	460 - 3	43.1	YES	60AS/50AF	3#6 & 1#10GND - 1 1/4"C	480 - 3	5	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C

KEYED NOTES

- PROVIDE 3/4" C.D. (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING HV UNIT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.
- UNI-STRUT MOUNTED PANELS. REFER TO DETAIL 2 SHEET EB3.1

GENERAL NOTES

- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFCI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 50 RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5338) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRA-VIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.
- REFER TO DETAIL 9 SHEET MP4.3 FOR FURTHER INFORMATION.



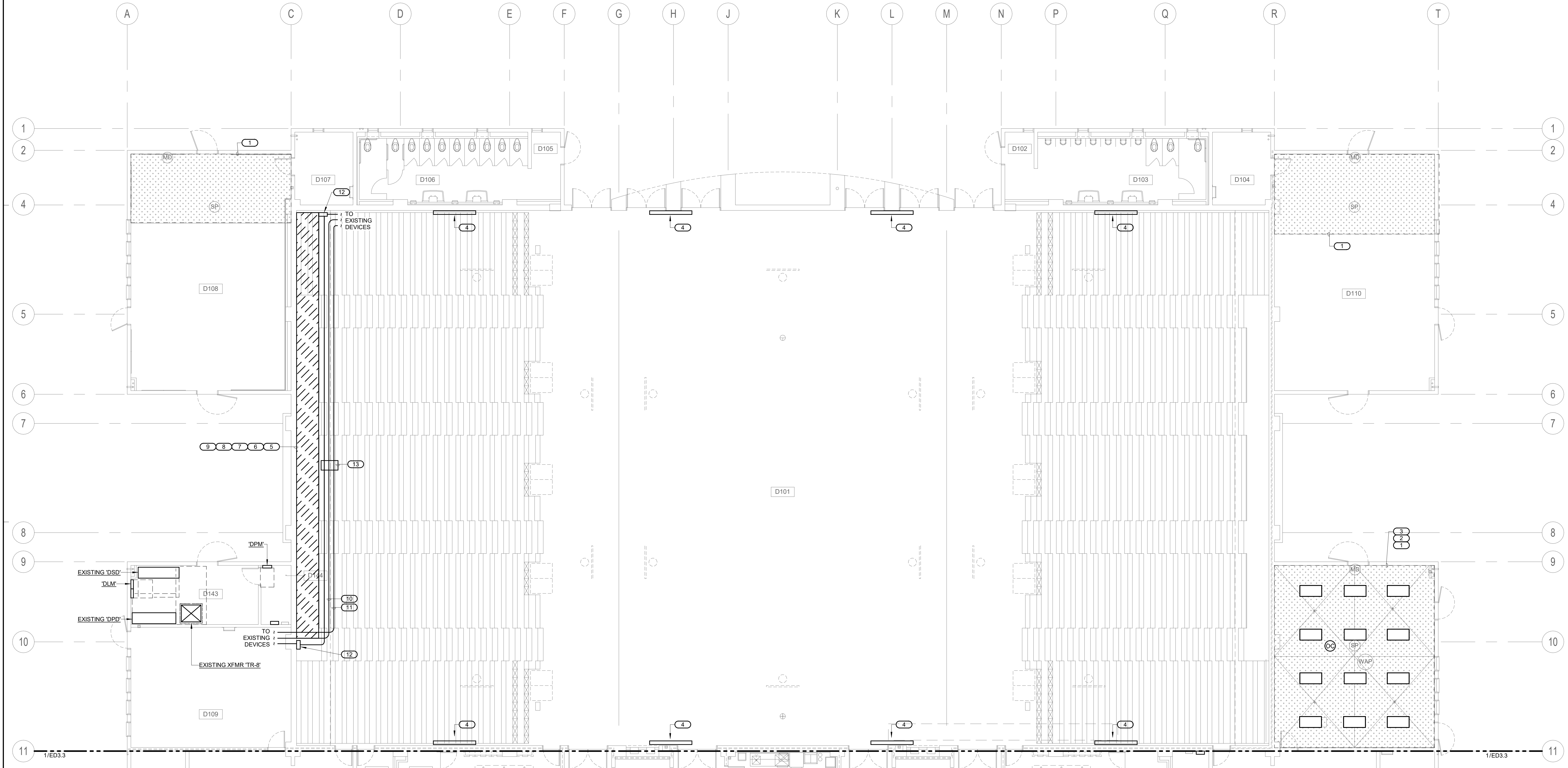
SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project Number	

BUILDING C REMODEL ROOF PLAN

DRAWING NUMBER: **EC3.1**

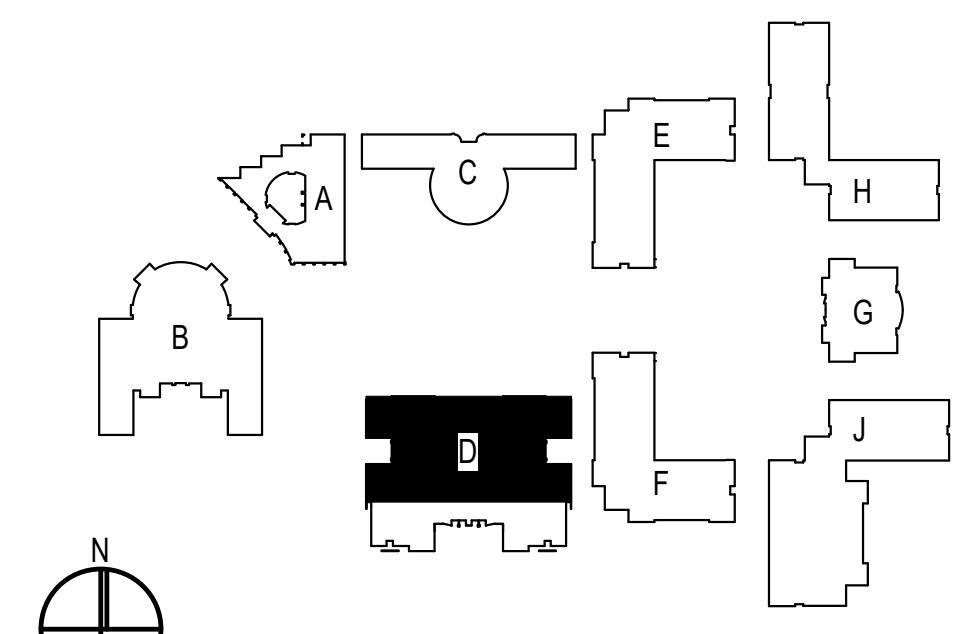


BUILDING D REMODEL FLOOR PLAN - AREA 1 1/8" = 1'-0" 1

KEYED NOTES

- TECHNOLOGY LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR, FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHT FIXTURE AFFECTED DURING REMOVAL/RE-INSTALLATION OF CEILING.
 - REMOVE LIGHT FIXTURE AND SALVAGE FOR FUTURE RE-INSTALLATION.
 - REMOVE POWER TO FIXTURES BACK TO JUNCTION BOX AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX. MOUNT JUNCTION BOX ON AREA NOT AFFECTED FOR MAINTAINING WORKING CLEARANCE.
 - RE-INSTALL LIGHT FIXTURE WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF LIGHT FIXTURE SHALL BE PERFORMED AND LIGHT FIXTURE SHALL BE FULLY OPERABLE.
- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING EQUIPMENT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL.
- DISCONNECT AND REMOVE FIRE ALARM WIRES BACK TO SOURCE OR NEAREST POINT PRACTICAL TO MAINTAIN ELECTRICAL CONTINUITY OF REMAINING DEVICES.
- DISCONNECT AND REMOVE DATA WIRES BACK TO SOURCE OR NEAREST POINT PRACTICAL TO MAINTAIN CONTINUITY OF REMAINING DEVICES.
- DISCONNECT AND REMOVE CIRCUITING BACK TO SOURCE OR NEAREST POINT PRACTICAL TO MAINTAIN ELECTRICAL CONTINUITY OF REMAINING DEVICES. EXTEND CONDUIT AND CONDUCTORS AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.
- REMOVE POWER, FIRE ALARM AND DATA WIRES TO MAKE ROOM FOR NEW HVAC.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL MATERIAL WHICH WILL NOT BE REUSED. UNUSED CONDUITS SHALL BE CUT OFF AND PLUGGED FLUSH WITH SURFACES. EXISTING MATERIAL WHICH IS NOT TO BE REUSED OR IS NOT REQUIRED TO BE RETAINED BY OWNER SHALL BE REMOVED FROM SITE.
- PROVIDE NEW FIRE ALARM WIRES IN KIND AS NECESSARY TO MAINTAIN CONTINUITY OF REMAINING DEVICES.
- PROVIDE NEW DATA WIRES IN KIND AS NECESSARY TO MAINTAIN CONTINUITY OF REMAINING DEVICES.
- PROVIDE NEW PULLBOX, SIZE OF PULLBOX PER NEC. SPLICE WIRES AT PULLBOX WITH INSULATED LUGS AND PROVIDE NEW CONDUCTORS AND CONDUIT IN KIND.
- RE-ROUTE WITH NEW CONDUITS AND WIRES. SIZE AND QUANTITY IN-KIND. PROVIDE NECESSARY CONDUIT SUPPORT.

REMOVAL & RE-INSTALLATION OF CEILING. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



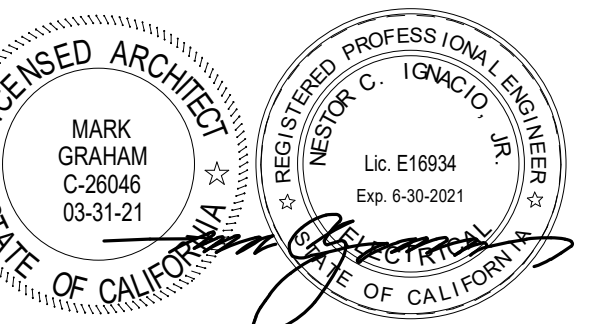
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REVISIONS			

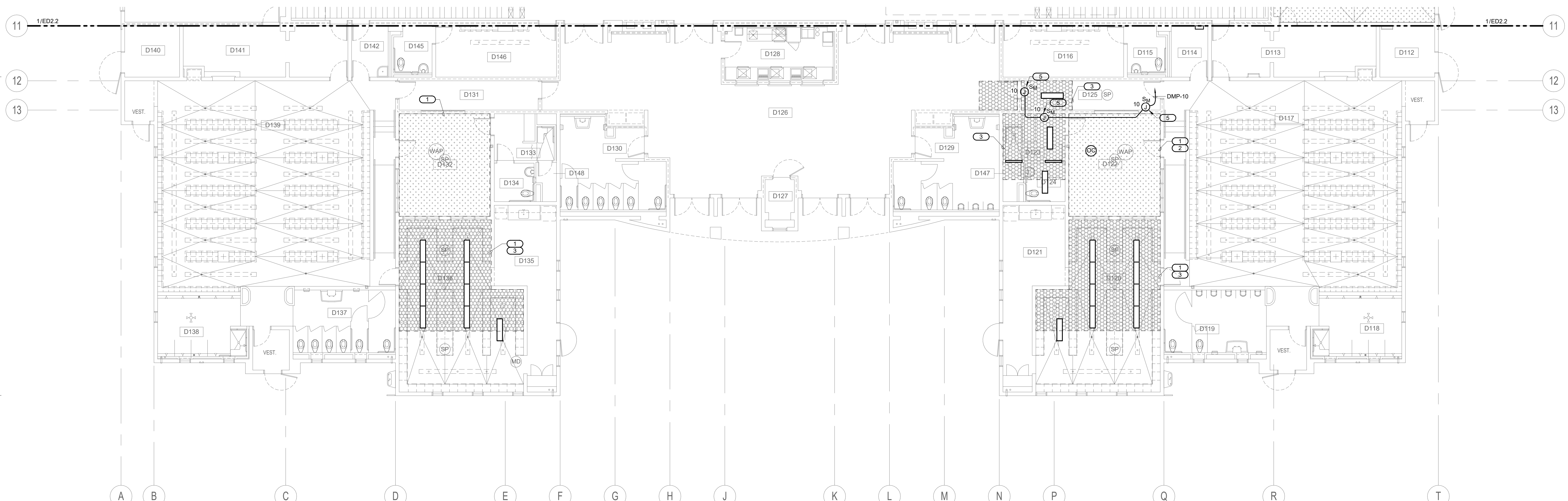
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DATE: Issue Date	SCALE: As indicated
PROJECT NUMBER: Project Number	

BUILDING D REMODEL FLOOR PLAN - AREA 1

DRAWING NUMBER: **ED2.2**



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901 VIA PIEMONTE SUITE 400
ONTARIO, CA 91764
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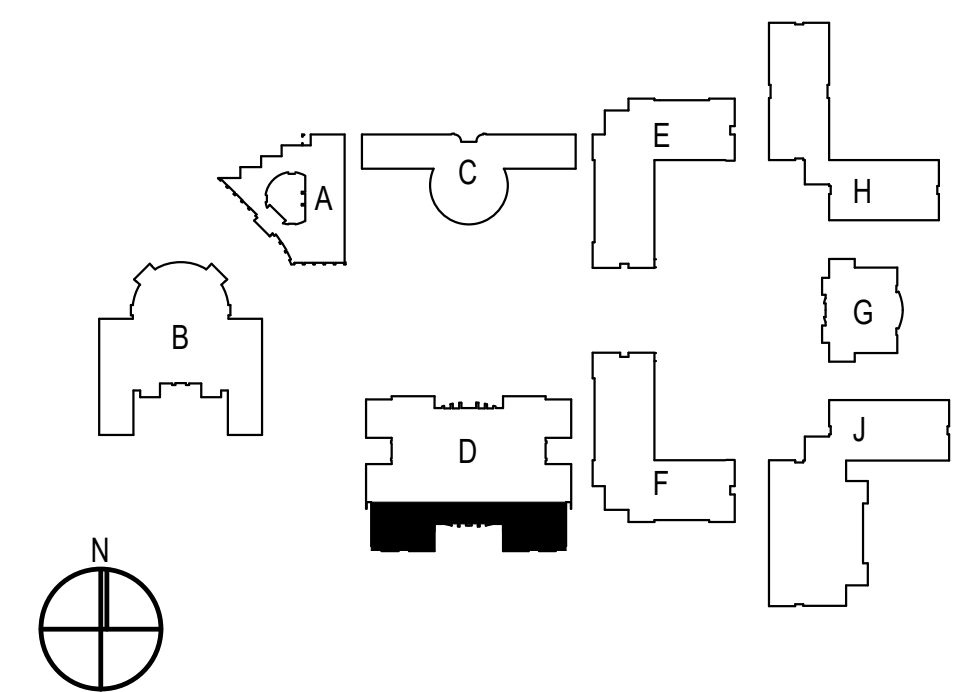
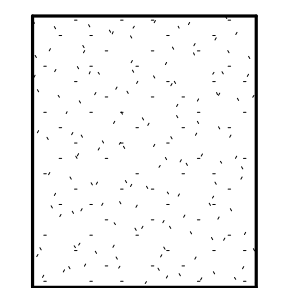


BUILDING D REMODEL FLOOR PLAN - AREA 2 1/8" = 1'-0" 1

KEYED NOTES

- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR, FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHT FIXTURE AFFECTED DURING REMOVAL/RE-INSTALLATION OF CEILING.
 - REMOVE LIGHT FIXTURE AND SALVAGE FOR FUTURE RE-INSTALLATION.
 - REMOVE POWER TO FIXTURES BACK TO JUNCTION BOX AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX. MOUNT JUNCTION BOX ON AREA NOT AFFECTED FOR MAINTAINING WORKING CLEARANCE.
 - RE-INSTALL LIGHT FIXTURE WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF LIGHT FIXTURE SHALL BE PERFORMED AND LIGHT FIXTURE SHALL BE FULLY OPERABLE.
- PROVIDE POWER FOR FIRE SMOKE DAMPER. REFERENCE FIRE ALARM DRAWINGS FOR EXACT LOCATION. PROVIDE MOTOR RATED SWITCH FOR DISCONNECT MEANS.

REMOVAL & RE-INSTALLATION OF CEILING
REFERENCE ARCHITECTURAL DRAWINGS FOR
DETAILED PROCEDURE.



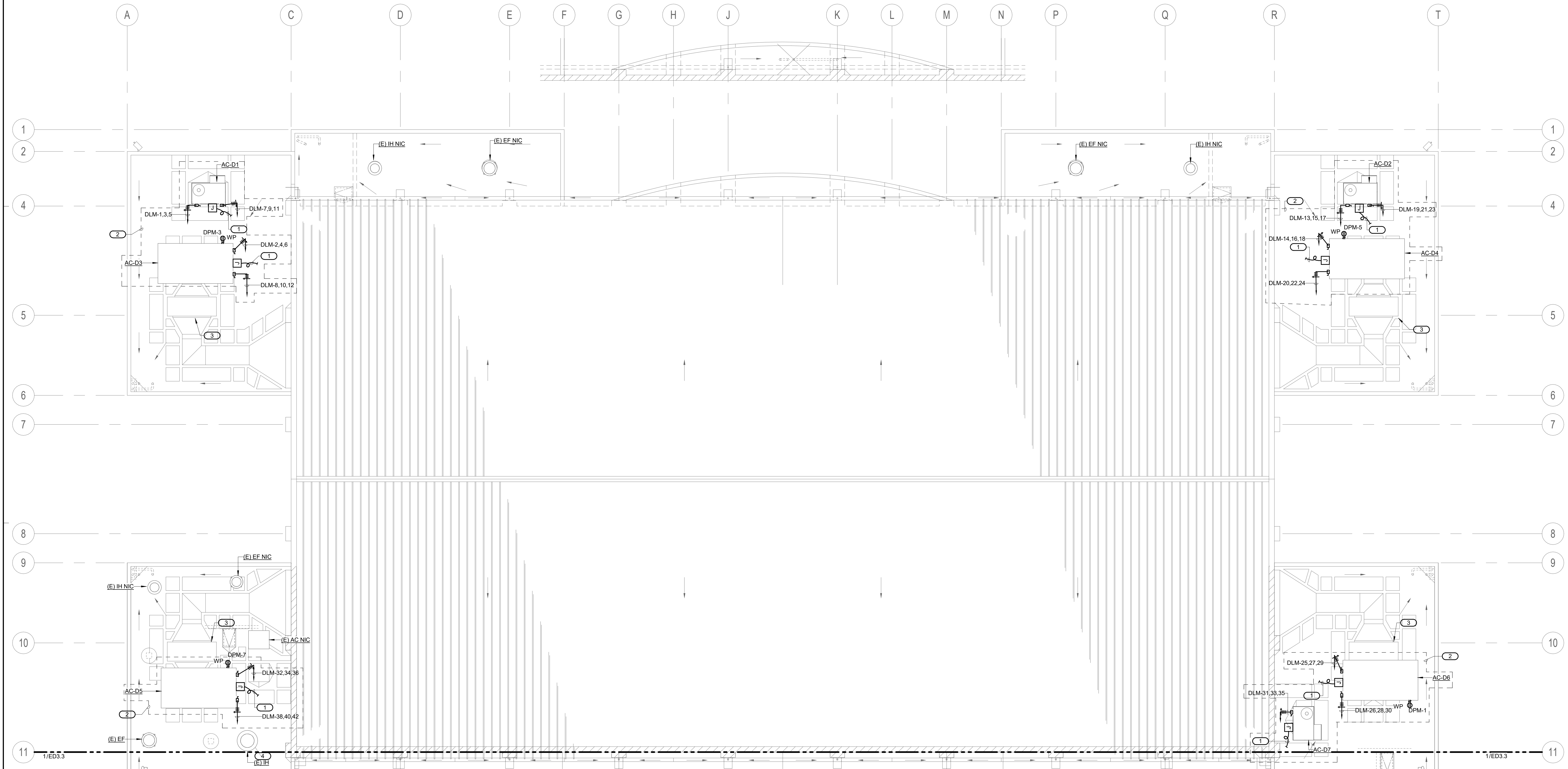
SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1
REVISIONS			

DRAWN: Author CHECKED: Checker
DATE: Issue Date SCALE: As indicated
PROJECT NUMBER: Project Number

**BUILDING D REMODEL
FLOOR PLAN - AREA 2**

DRAWING NUMBER: **ED2.3**



BUILDING D REMODEL ROOF PLAN - AREA 1 1/8" = 1'-0" 1

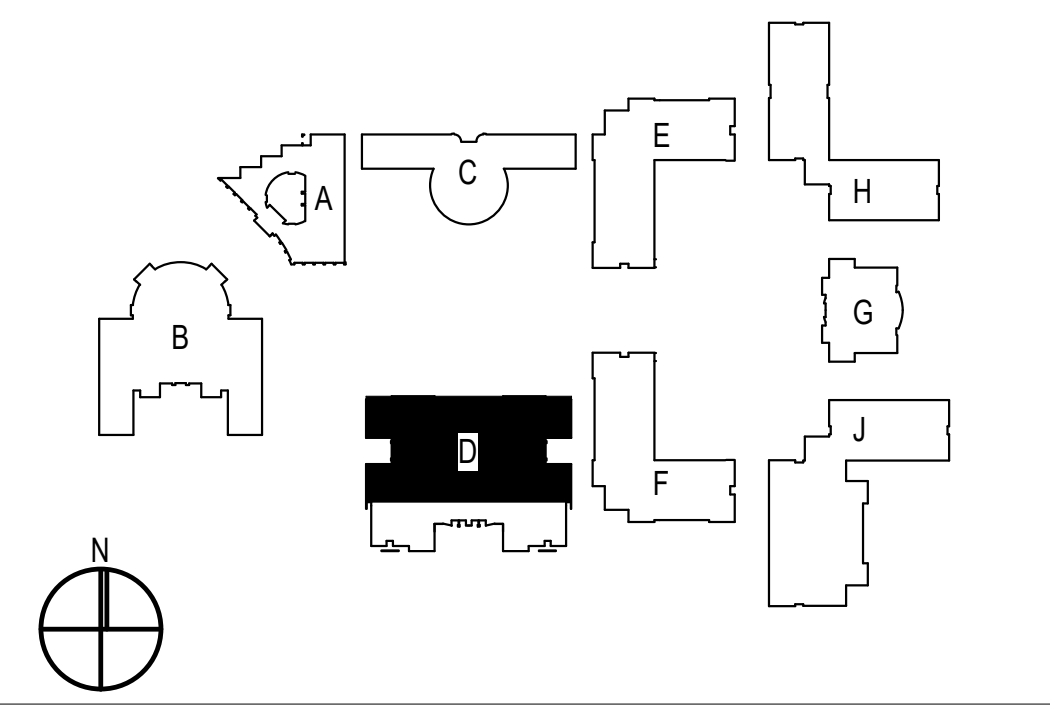
EQUIPMENT CONNECTION SCHEDULE BUILDING - D						POWER EXHAUST					
ITEM NO.	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	
AC-D1	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4"C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D2	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4"C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D3	460 - 3	51	YES	60AS/60AF	3#4 & 1#10GND - 1 1/4"C	480 - 3	8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D4	460 - 3	51	YES	60AS/60AF	3#4 & 1#10GND - 1 1/4"C	480 - 3	8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D5	460 - 3	51	YES	60AS/60AF	3#4 & 1#10GND - 1 1/4"C	480 - 3	8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D6	460 - 3	51	YES	60AS/60AF	3#4 & 1#10GND - 1 1/4"C	480 - 3	8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D7	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"C	480 - 3	8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D8	460 - 3	20	YES	30AS/25AF	3#8 & 1#10GND - 3/4"C	480 - 3	2.4	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D9	208 - 1	19.4	YES	30AS/30AF	3#8 & 1#10GND - 3/4"C						
AC-D10	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4"C						
AC-D11	460 - 3	25	YES	30AS/30AF	3#8 & 1#10GND - 3/4"C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	
AC-D12	208 - 1	19.4	YES	30AS/30AF	3#8 & 1#10GND - 3/4"C						
AC-D13	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4"C						
AC-D14	460 - 3	20	YES	30AS/25AF	3#8 & 1#10GND - 3/4"C	480 - 3	2.4	YES	30AS/15AF	3#12 & 1#12GND - 3/4"C	

KEYED NOTES

- PROVIDE 3/4" O (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING HV UNIT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.
- DEMO EXISTING EXHAUST FAN. REFERENCE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- REMOVE AND RECONNECT EXHAUST FAN BEING RELOCATED. EXTEND CONDUCTORS AS NECESSARY.

GENERAL NOTES

- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFCI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 56 RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.
- REFER TO DETAIL 9 SHEET MP4.3 FOR FURTHER INFORMATION.



SITE KEY PLAN

1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

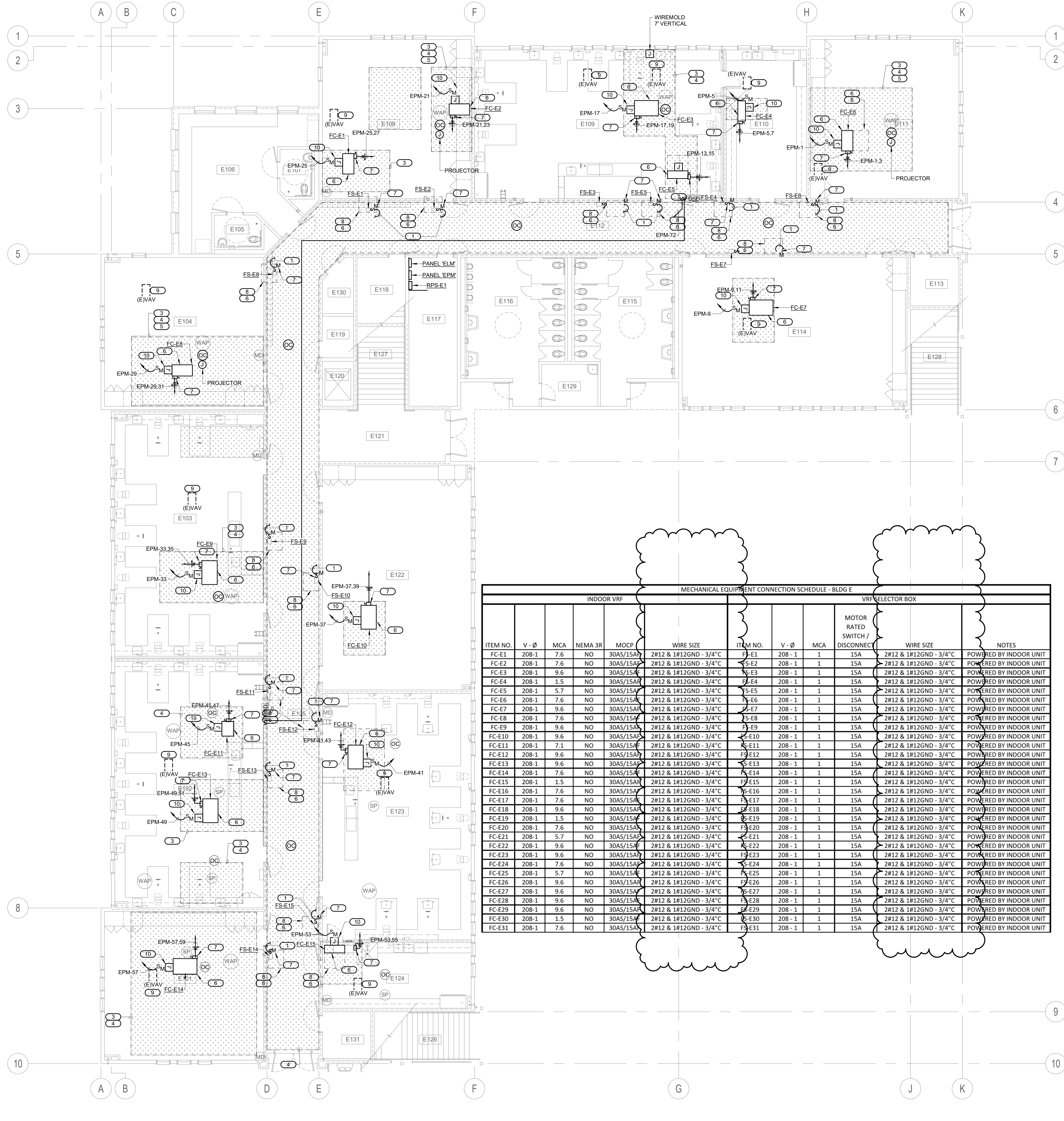
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DATE: Issue Date	SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project Number	

BUILDING D REMODEL ROOF PLAN - AREA 1

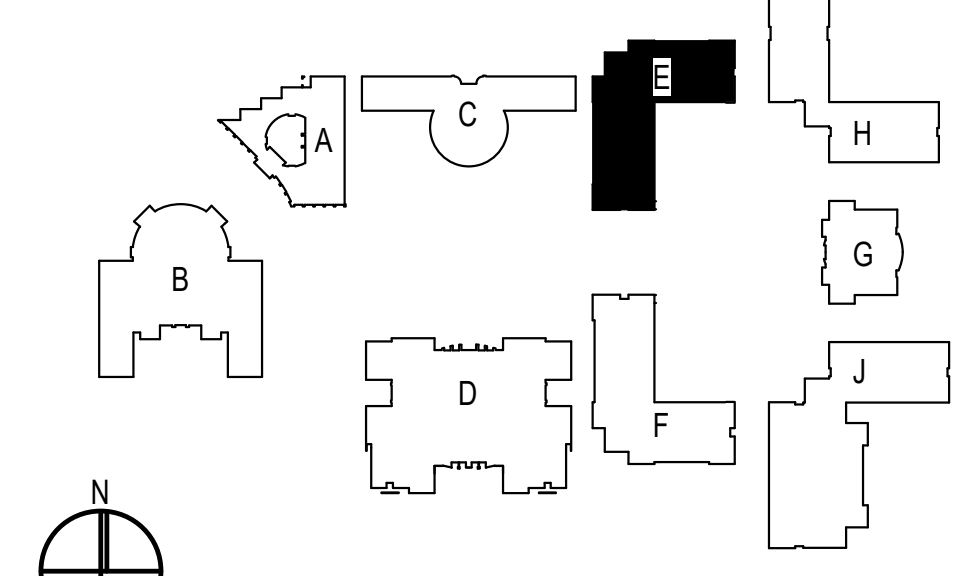
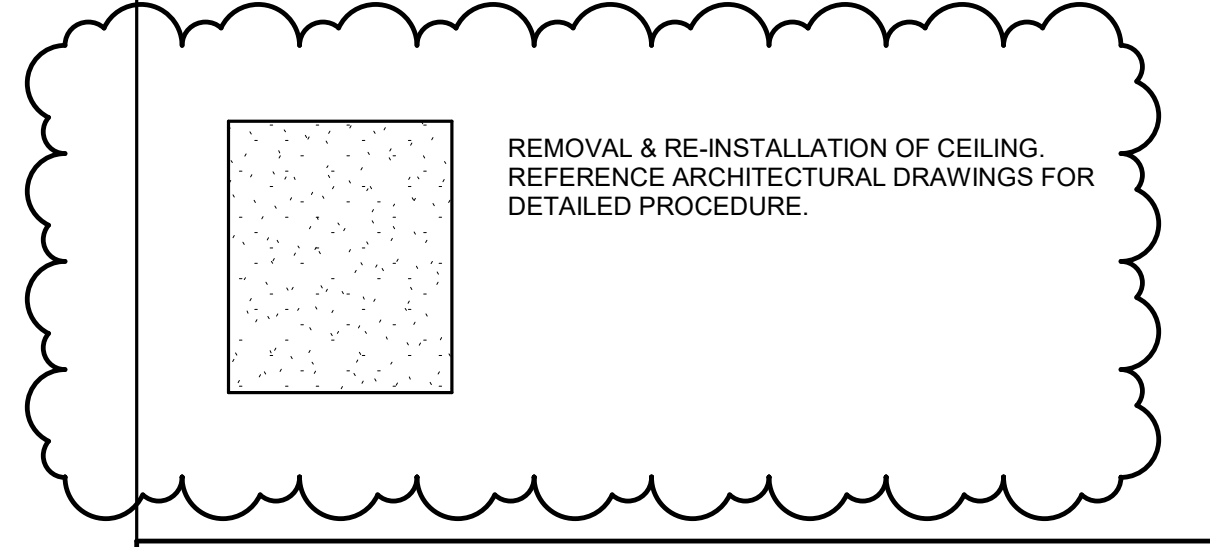
DRAWING NUMBER: **ED3.2**

KEYED NOTES

- 1. INTERCONNECT WITH ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL WIRING DIAGRAMS.
2. PROVIDE DEDICATED 120V CIRCUIT POWER SOURCE TO NEAREST AVAILABLE CIRCUIT. PROVIDE LOCK AND DEVICE TO BREAKER AND LABEL INDICATING FIRE ALARM TO CIRCUIT ID.
3. TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
4. LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
5. PROJECTOR AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
6. PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
7. INSTALL DISCONNECT MOTOR RATED SWITCH ON OR NEXT TO MECHANICAL UNIT. SWITCH SHALL HAVE THREE FEET CLEARANCE IN FRONT FOR SERVICE CLEARANCE.
8. DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING EQUIPMENT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL.
9. PROVIDE POWER FOR CONDENSATE PUMP. PROVIDE MOTOR RATED SWITCH TO EACH PUMP. VERIFY NEUTRAL CONDUCTOR IS PROVIDED.



MECHANICAL EQUIPMENT CONNECTION SCHEDULE - BLDG E. Table with columns for INDOOR VRF and VRF SELECTOR BOX. Includes fields for ITEM NO., V-Ø, MCA, NEMA 3R, MOCR, WIRE SIZE, and NOTES.



Revisions table with columns: NO, DATE, BY, DESCRIPTION. Includes entry 1 dated 08/25/20 for Addendum 1.

Drawn/Checked table with columns: DRAWN, CHECKED, DATE, SCALE, PROJECT NUMBER. Includes entry: Author, Checker, Issue Date, As indicated, Project Number.

NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: As indicated
PROJECT NUMBER: Project Number	

**BUILDING E REMODEL
SECOND FLOOR PLAN**

DRAWING NUMBER: **EE2.3**

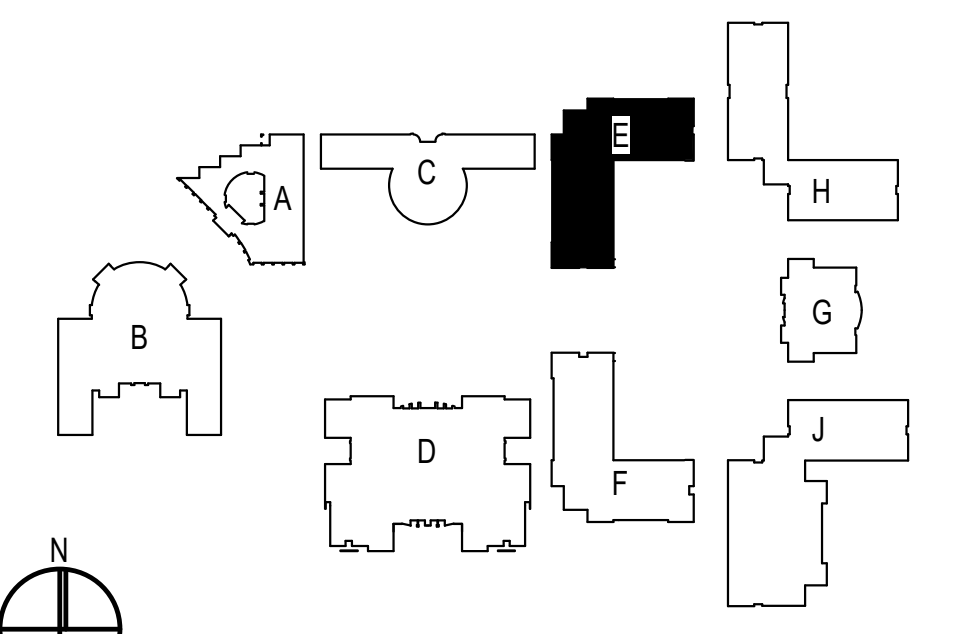
KEYED NOTES

- INTERCONNECT WITH ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL WIRING DIAGRAMS.
- PROVIDE DEDICATED 120V CIRCUIT POWER SOURCE TO NEAREST AVAILABLE CIRCUIT. PROVIDE "LOCK ON" DEVICE TO BREAKER AND RED LABEL.
- TECHNOLOGY LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- NOT USED.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS, INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR ELECTRICAL CONDUIT PROVIDE NEW CONDUCTORS FROM NEW JUNCTION BOXES AND SPLICE CONDUCTORS TO BE EXTENDED. MATCH EXISTING CONDUCTORS TO BE SPLICED.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
 - FOR TECHNOLOGY LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.
- INSTALL DISCONNECT MOTOR RATED SWITCH ON OR NEXT TO MECHANICAL UNIT. SWITCH SHALL HAVE THREE FEET CLEARANCE IN FRONT OF.
- PROVIDE CLEARANCE FOR MECHANICAL UNIT. ANY CONDUIT SHALL BE REROUTED ACCORDINGLY.
- PROVIDE POWER FOR CONDENSATE PUMP. PROVIDE MOTOR RATED SWITCH TO EACH PUMP. VERIFY NEUTRAL CONDUCTOR IS PROVIDED.

GENERAL NOTES

- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING VAV UNITS BEING DEMO. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - BLDG E											
INDOOR VRF					VRF SELECTOR BOX						
ITEM NO.	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	ITEM NO.	V - Ø	MCA	MOTOR RATED SWITCH / DISCONNECT	WIRE SIZE	NOTES
FC-E1	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E1	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E2	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E2	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E3	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E3	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E4	208-1	1.5	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E4	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E5	208-1	5.7	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E5	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E6	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E6	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E7	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E7	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E8	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E8	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E9	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E9	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E10	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E10	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E11	208-1	7.1	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E11	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E12	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E12	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E13	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E13	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E14	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E14	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E15	208-1	1.5	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E15	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E16	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E16	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E17	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E17	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E18	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E18	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E19	208-1	1.5	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E19	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E20	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E20	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E21	208-1	5.7	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E21	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E22	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E22	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E23	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E23	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E24	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E24	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E25	208-1	5.7	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E25	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E26	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E26	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E27	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E27	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E28	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E28	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E29	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E29	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E30	208-1	1.5	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E30	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT
FC-E31	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"	FS-E31	208-1	1	15A	2#12 & 1#12GND - 3/4"	POWERED BY INDOOR UNIT



GENERAL NOTES

1. PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
2. ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
3. COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 58 RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

KEYED NOTES

1. DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING AIR HANDLE UNITS 4 TOTAL AND BOILERS ON ROOF. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.

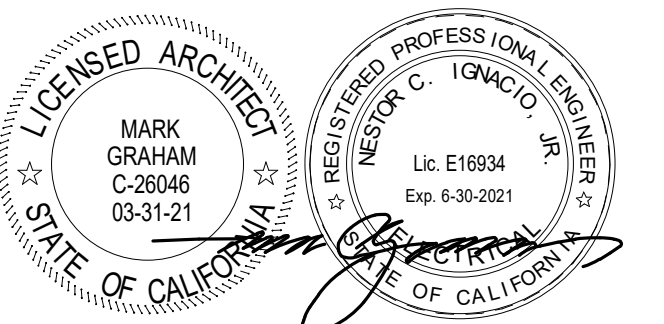
ARCHITECTS

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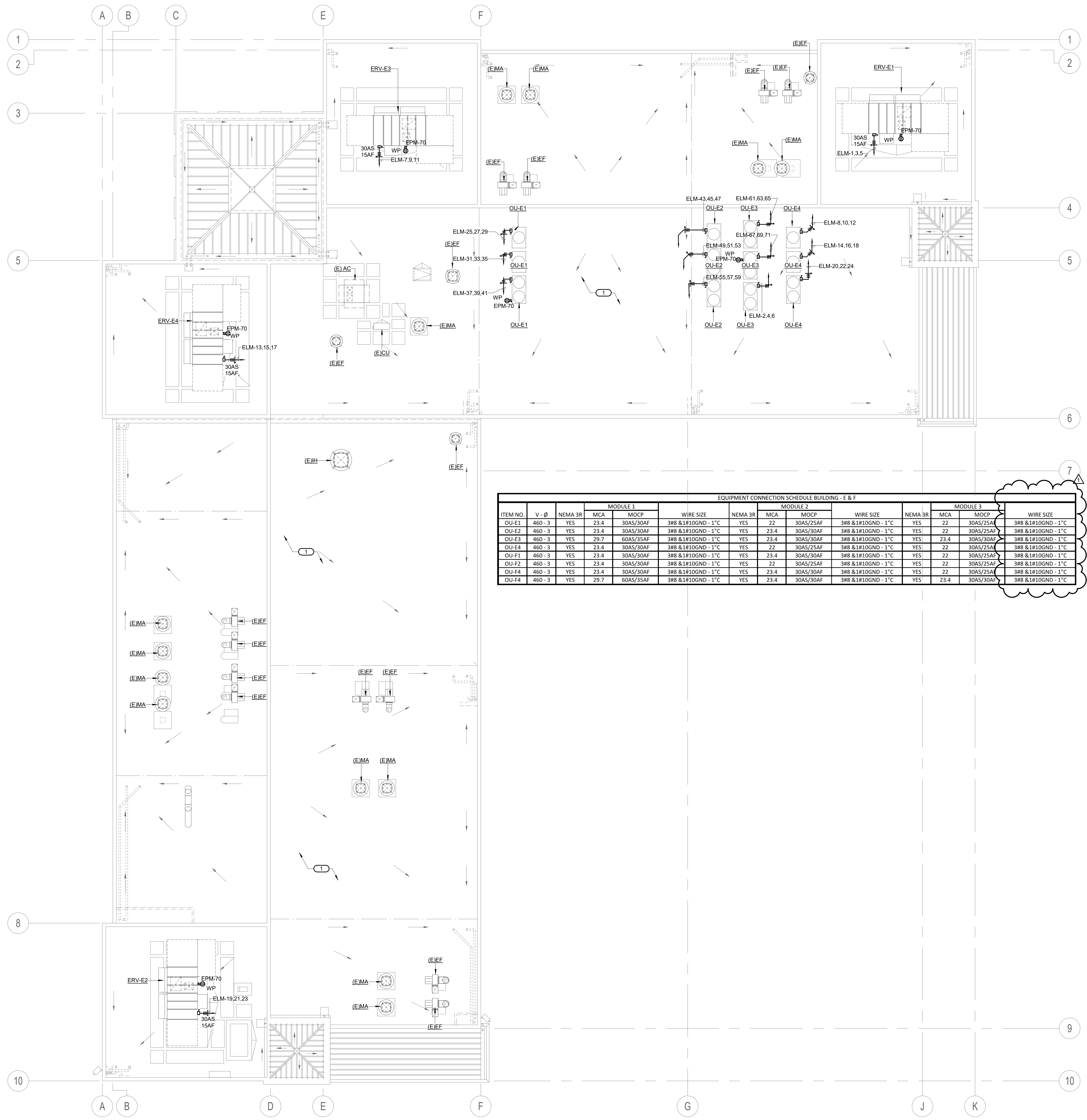
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1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

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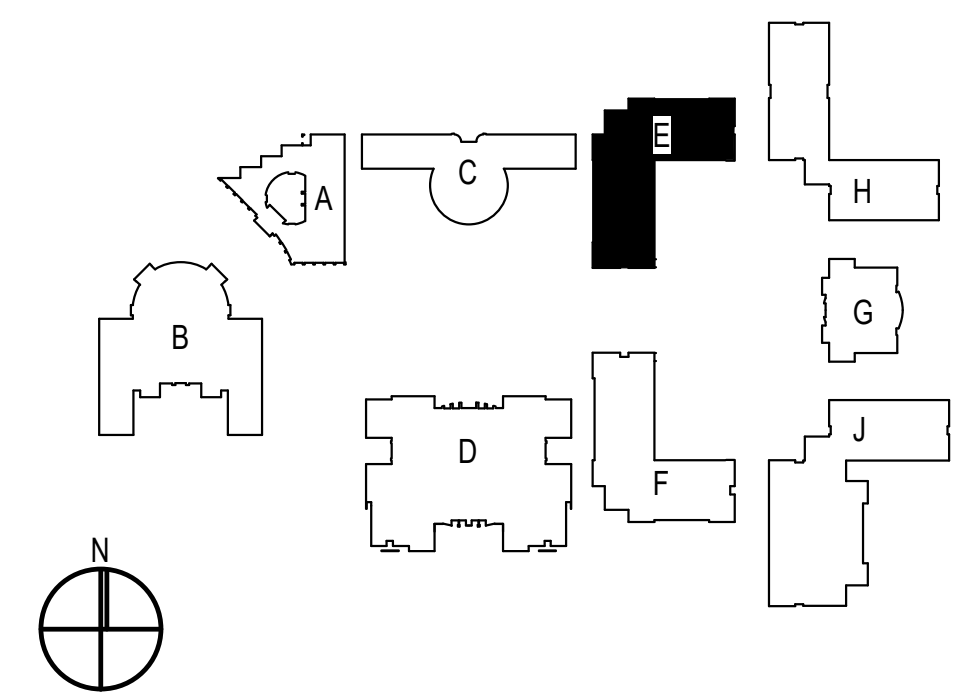
BUILDING E REMODEL ROOF PLAN

DRAWING NUMBER: EE3.1

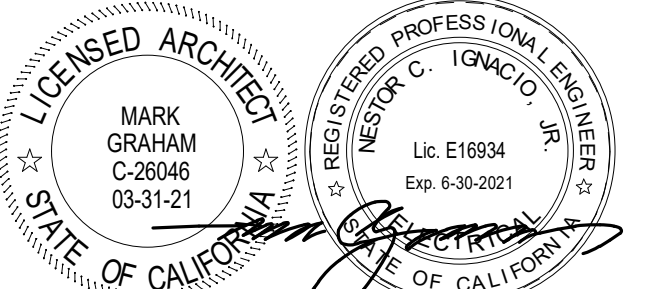


EQUIPMENT CONNECTION SCHEDULE BUILDING - E & F

ITEM NO.	V-Ø	NEMA 3R	MODULE 1		WIRE SIZE	NEMA 3R	MODULE 2		WIRE SIZE	NEMA 3R	MODULE 3		WIRE SIZE
			MCA	MOCP			MCA	MOCP			MCA	MOCP	
OU-E1	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-E2	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-E3	460-3	YES	29.7	60AS/35AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C
OU-E4	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-F1	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-F2	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-F4	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-F4	460-3	YES	29.7	60AS/35AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C



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REVISIONS table with columns: NO, DATE, BY, DESCRIPTION

REVISIONS table with columns: NO, DATE, BY, DESCRIPTION

BUILDING F REMODEL FLOOR PLAN

DRAWING NUMBER: **EF2.2**

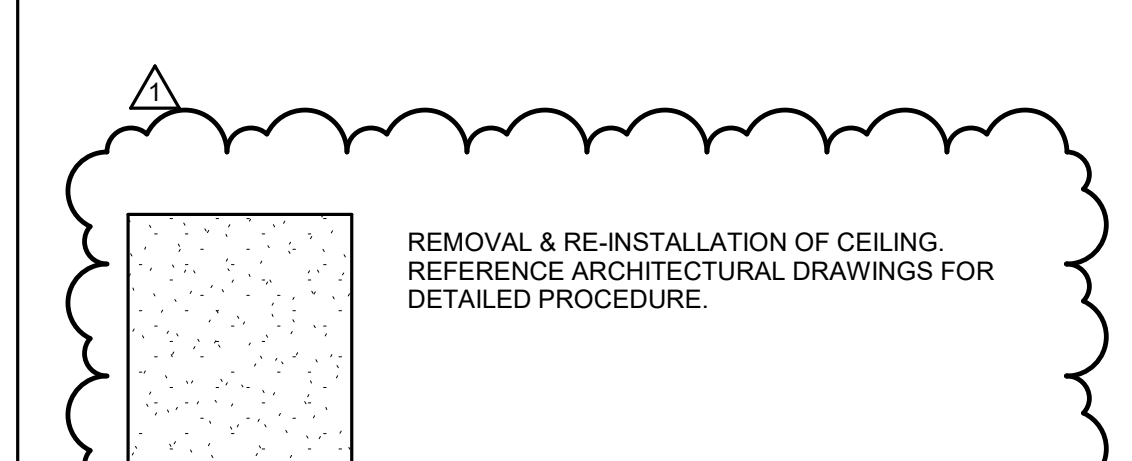
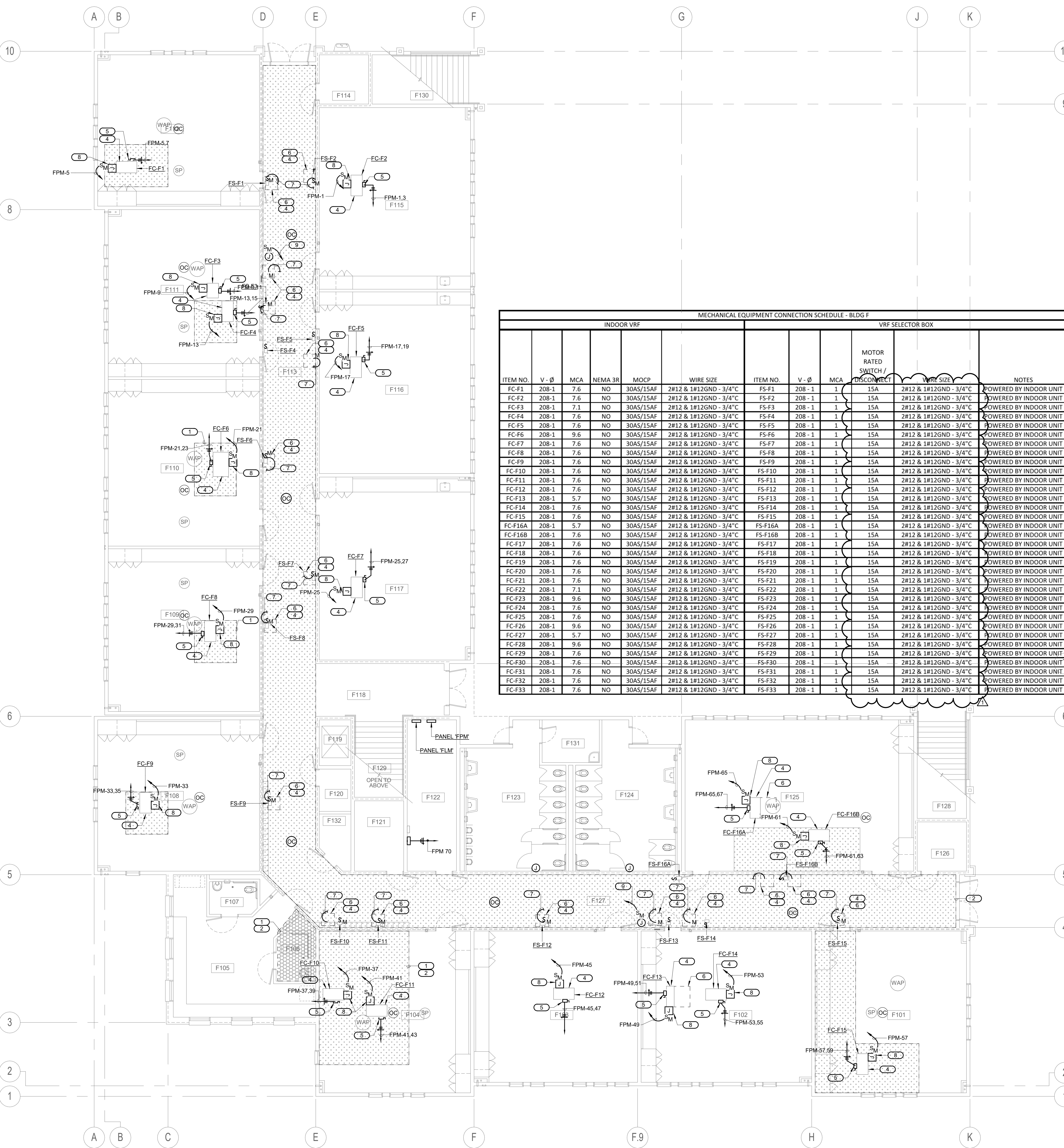
KEYED NOTES

- 1. TECHNOLOGY LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL-INSTALLATION OF ACOUSTICAL CEILING...
2. LIGHTING DEVICES AFFECTED DURING REMOVAL-INSTALLATION OF ACOUSTICAL CEILING...
3. PROJECTOR AFFECTED DURING REMOVAL-INSTALLATION OF ACOUSTICAL CEILING...

GENERAL NOTES

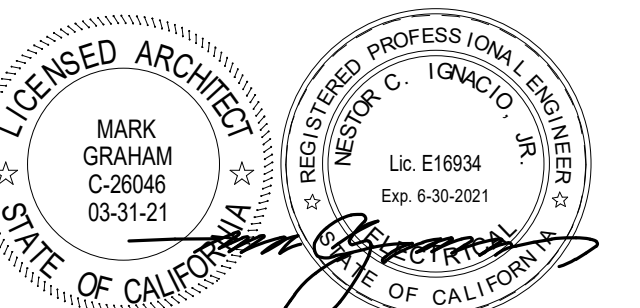
- 1. DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING VAV UNITS BEING DEMO. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - BLDG F. Table with columns: ITEM NO., V-Ø, MCA, NEMA 3R, MOCIP, WIRE SIZE, ITEM NO., V-Ø, MCA, DISCONNECT, WIRE SIZE, NOTES.



BUILDING F REMODEL FLOOR PLAN 1/8" = 1'-0" 1

SITE KEY PLAN



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REMOVAL & RE-INSTALLATION OF CEILING.
REFERENCE ARCHITECTURAL DRAWINGS FOR
DETAILED PROCEDURE.

NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1
REVISIONS			

DRAWN:	CHECKED:
Author	Checker
DATE: Issue Date	SCALE: As indicated
PROJECT NUMBER: Project Number	

BUILDING F REMODEL SECOND FLOOR PLAN

DRAWING NUMBER: **EF2.3**

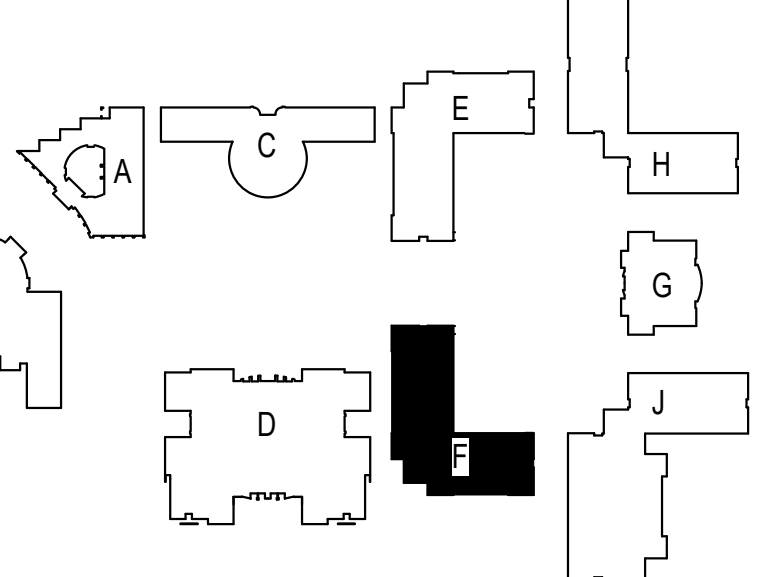
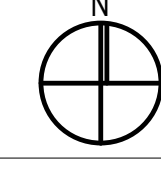
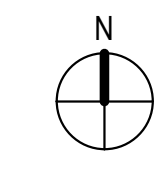
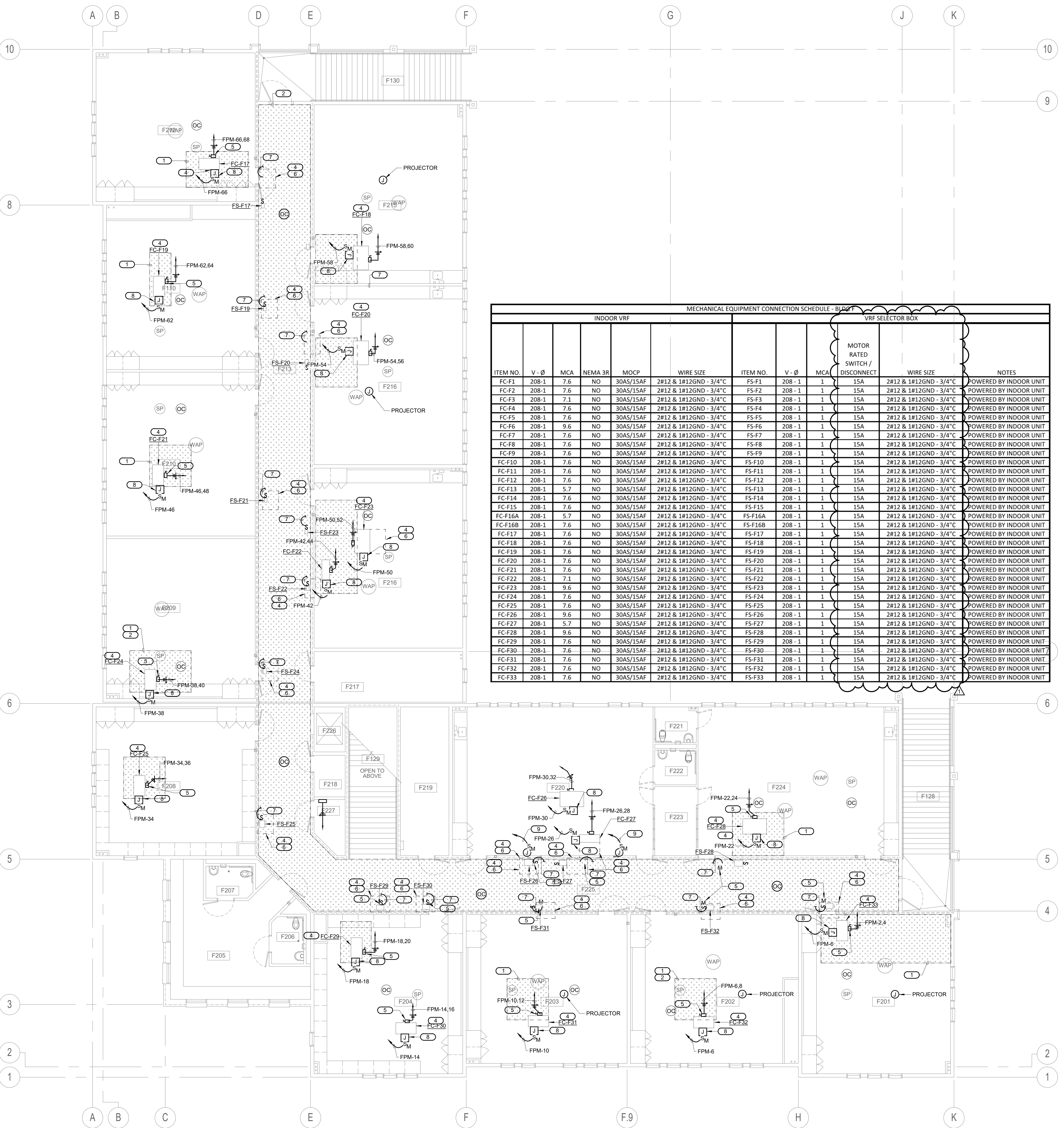
KEYED NOTES

- TECHNOLOGY LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROJECTOR AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE RECEPTACLE POWERING PROJECTOR (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, 4S RING/COVER, ROD/STEM MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX.
 - RE-INSTALL POWER OUTLET WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF OUTLET SHALL BE PERFORMED AND OUTLET SHALL BE FULLY OPERABLE.
- FOR ELECTRICAL CONDUIT PROVIDE NEW CONDUCTORS FROM NEW JUNCTION BOXES AND SPLICE CONDUCTORS TO BE EXTENDED, MATCH EXISTING CONDUCTORS TO BE SPLICED.
- FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.
- FOR TECHNOLOGY LOW VOLTAGE CONDUIT PROVIDE THE NECESSARY CONNECTION BOXES FOR EXTENDING CAT TYPE CABLE.

GENERAL NOTES

- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING VAV UNITS BEING DEMO. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.

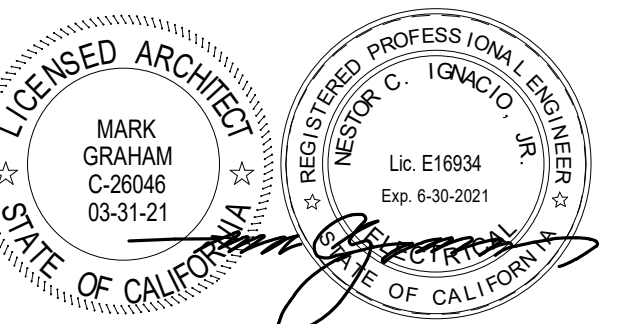
MECHANICAL EQUIPMENT CONNECTION SCHEDULE - BLDG F											
INDOOR VRF						VRF SELECTOR BOX					
ITEM NO.	V-Ø	MCA	NEMA 3R	MOCF	WIRE SIZE	ITEM NO.	V-Ø	MCA	MOTOR RATED SWITCH / DISCONNECT	WIRE SIZE	NOTES
FC-F1	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F1	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F2	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F2	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F3	208-1	7.1	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F3	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F4	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F4	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F5	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F5	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F6	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F6	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F7	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F7	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F8	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F8	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F9	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F9	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F10	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F10	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F11	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F11	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F12	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F12	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F13	208-1	5.7	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F13	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F14	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F14	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F15	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F15	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F16A	208-1	5.7	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F16A	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F16B	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F16B	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F17	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F17	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F18	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F18	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F19	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F19	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F20	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F20	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F21	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F21	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F22	208-1	7.1	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F22	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F23	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F23	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F24	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F24	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F25	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F25	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F26	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F26	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F27	208-1	5.7	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F27	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F28	208-1	9.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F28	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F29	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F29	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F30	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F30	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F31	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F31	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F32	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F32	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT
FC-F33	208-1	7.6	NO	30AS/15AF	2#12 & 1#12GND - 3/4"C	FS-F33	208-1	1	15A	2#12 & 1#12GND - 3/4"C	POWERED BY INDOOR UNIT





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1	08/25/20		Addendum 1

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DATE:	Issue Date	SCALE:	1/8" = 1'-0"
PROJECT NUMBER:	Project Number		

**BUILDING F REMODEL
ROOF PLAN**

DRAWING NUMBER: **EF3.1**

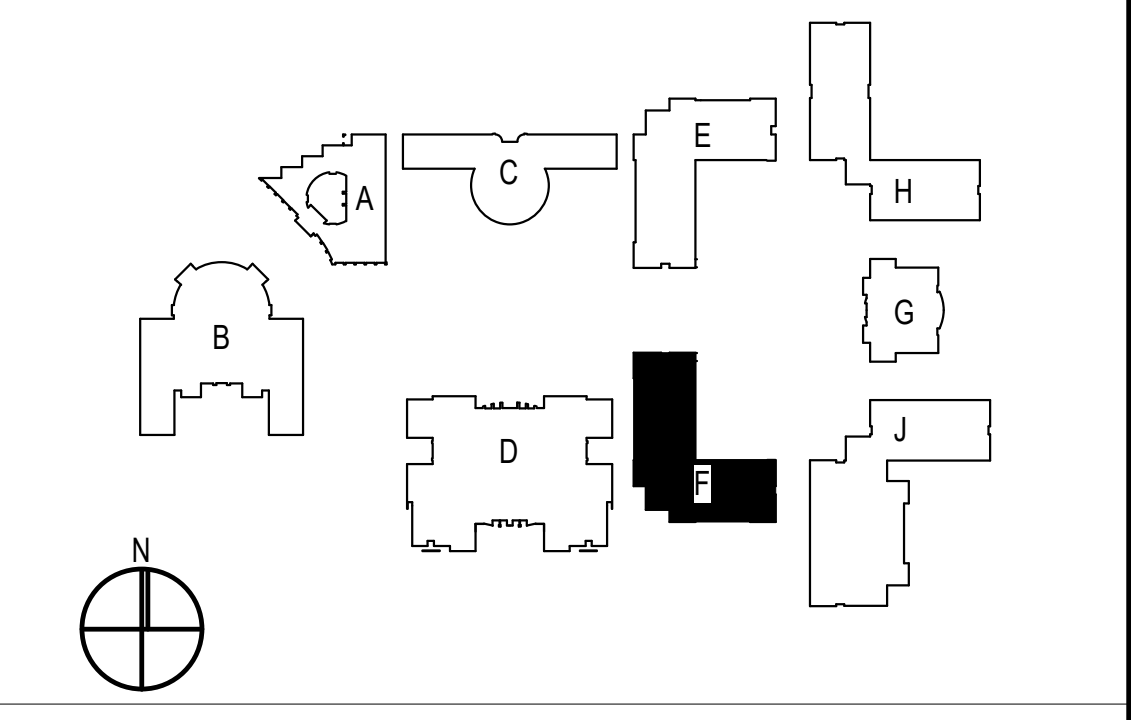
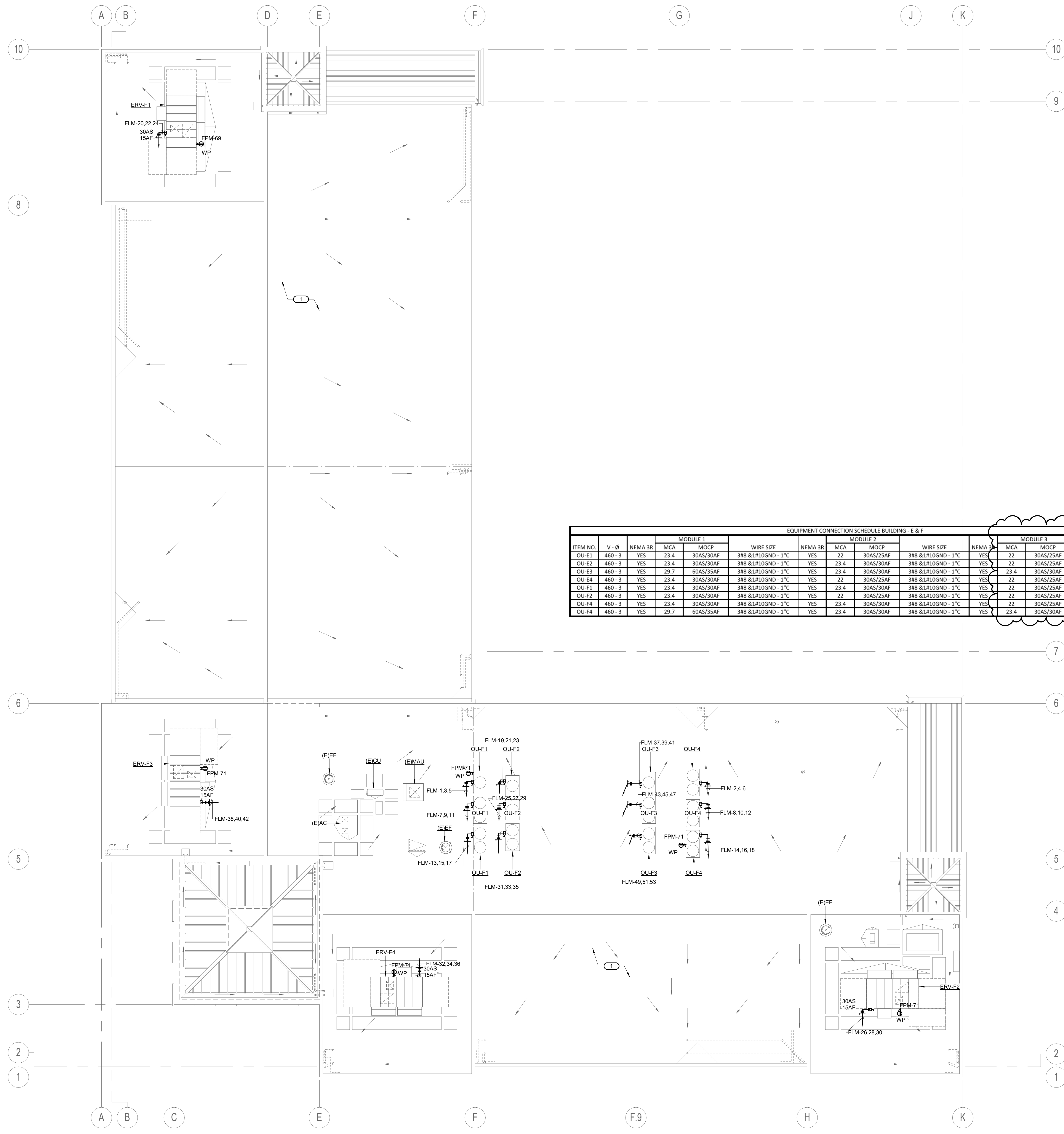
GENERAL NOTES

- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI, MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 58 RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 10 MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

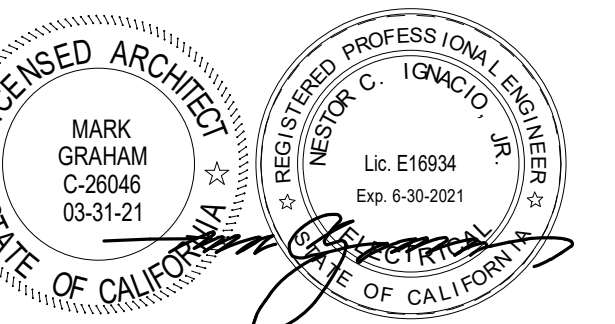
KEYED NOTES

- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING AIR HANDLE UNITS 4 TOTAL AND BOILERS ON ROOF. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.

ITEM NO.	V - Ø	NEMA 3R	MODULE 1			MODULE 2			MODULE 3				
			MCA	MOCP	WIRE SIZE	MCA	MOCP	WIRE SIZE	MCA	MOCP	WIRE SIZE		
OU-E1	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-E2	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-E3	460-3	YES	29.7	60AS/35AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C
OU-E4	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-F1	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-F2	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-F4	460-3	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	22	30AS/25AF	3#8 & 1#10GND - 1°C
OU-F4	460-3	YES	29.7	60AS/35AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C	YES	23.4	30AS/30AF	3#8 & 1#10GND - 1°C



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1	08/25/20		Addendum 1
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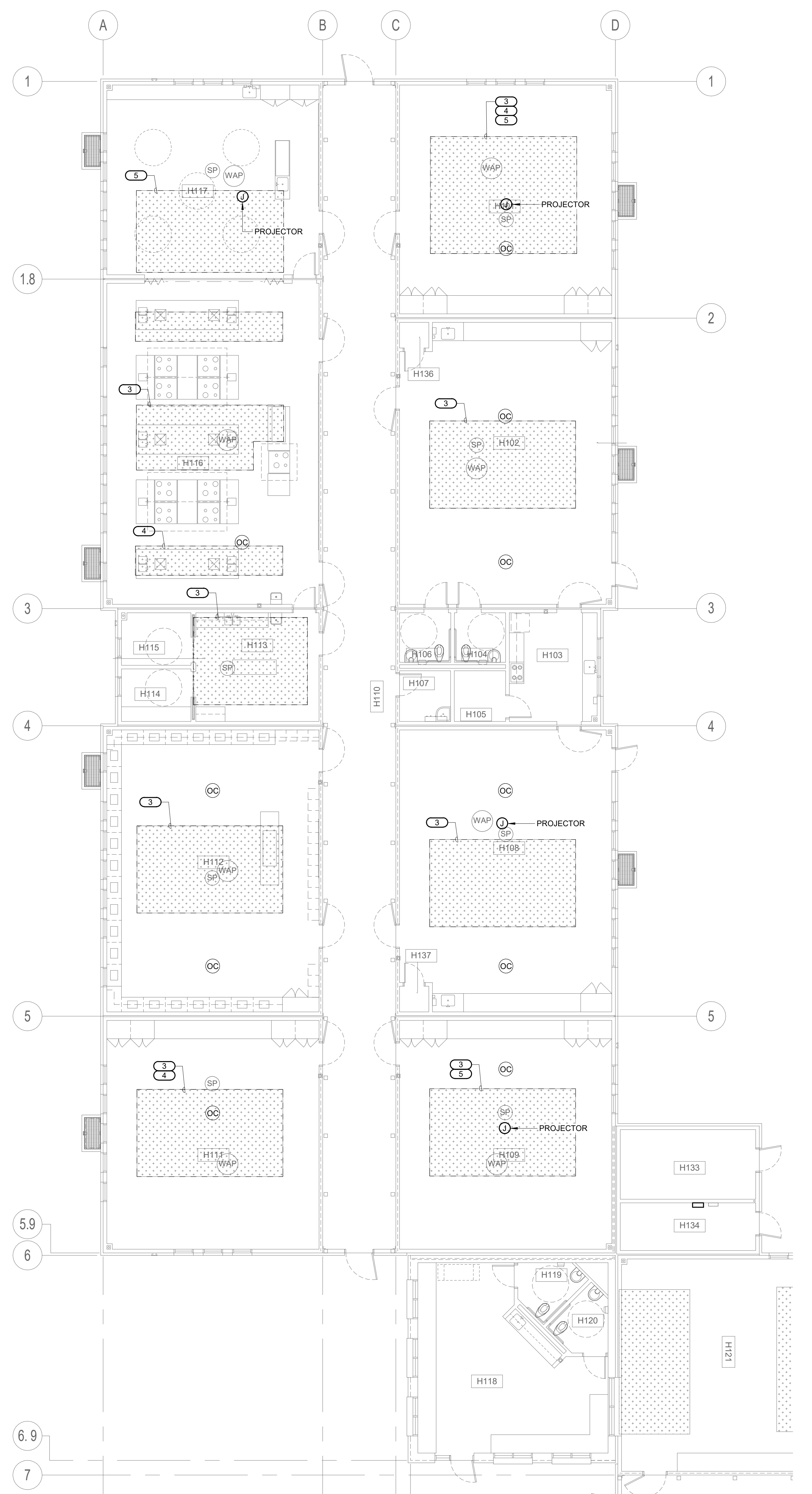
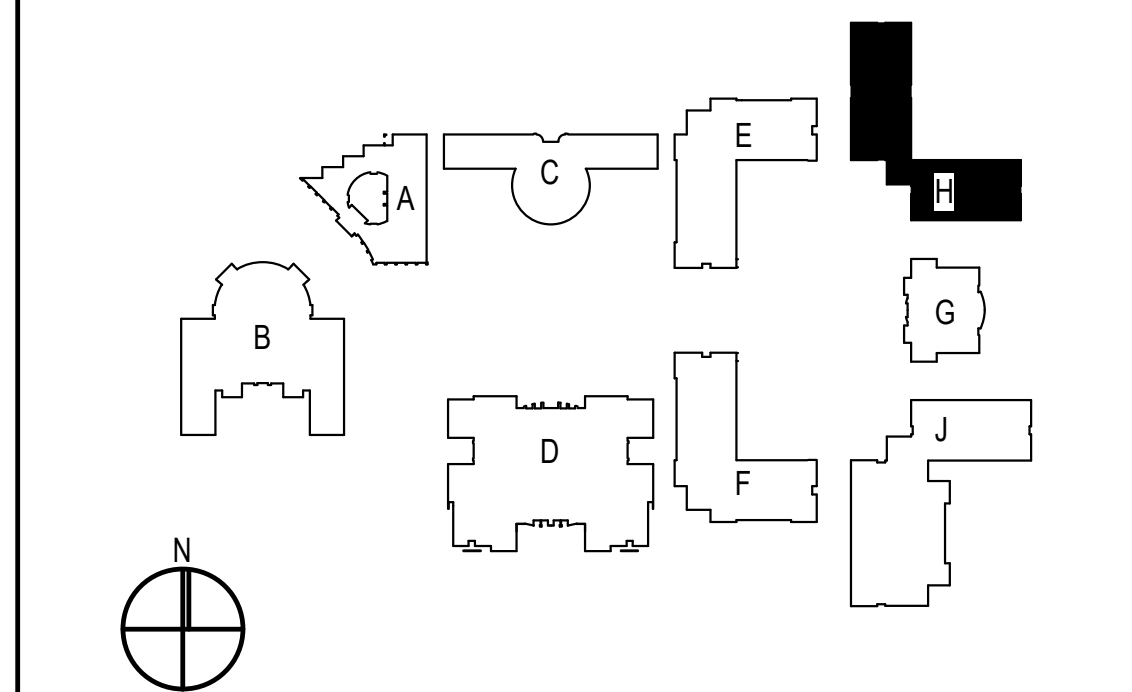
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DATE: Issue Date	SCALE: As indicated
PROJECT NUMBER: Project Number	

BUILDING H REMODEL FLOOR PLAN

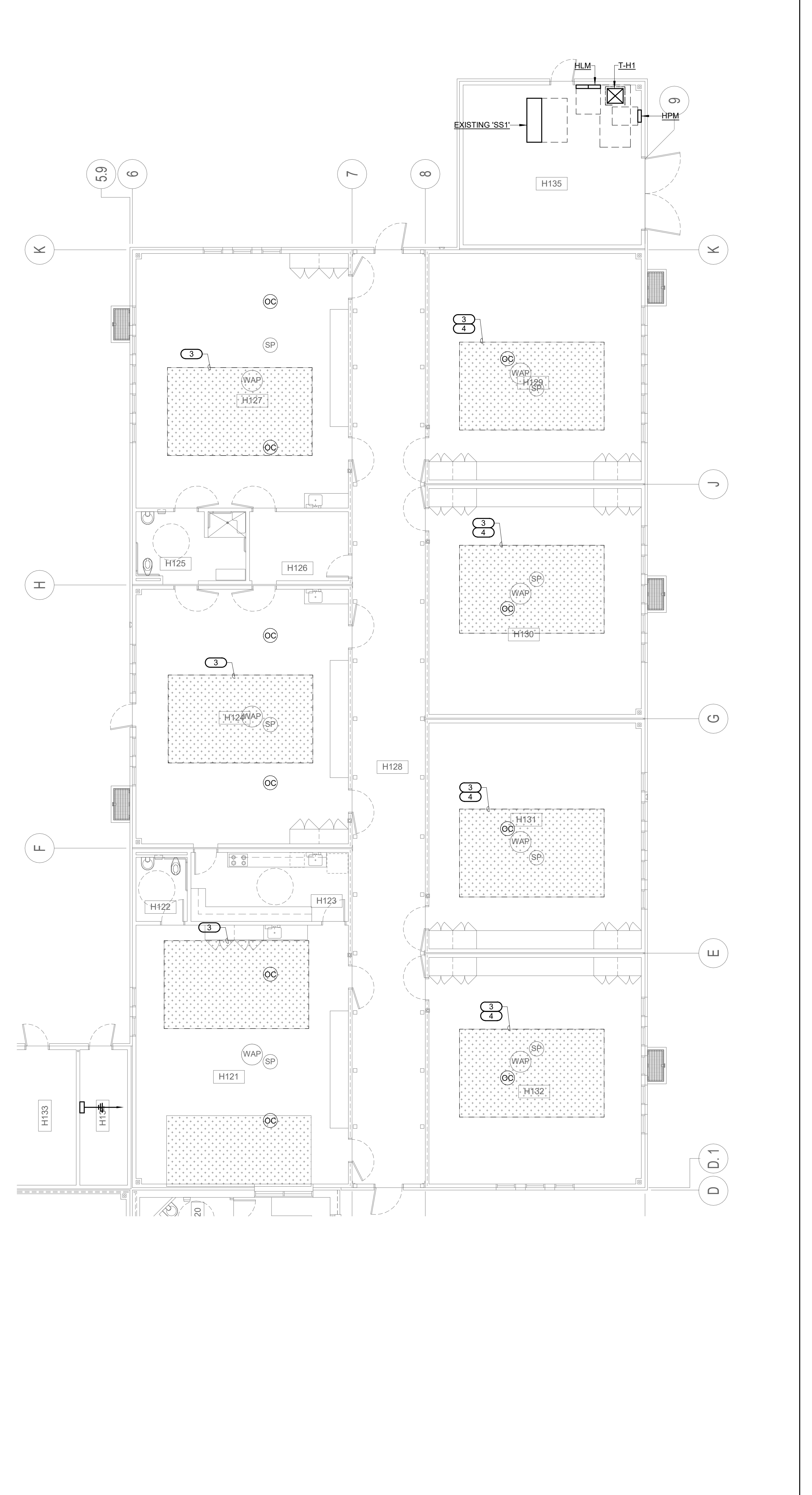
DRAWING NUMBER: **EH2.2**

- KEYED NOTES**
- NOT USED
 - PROVIDE DEDICATED 120V CIRCUIT POWER SOURCE TO NEAREST AVAILABLE CIRCUIT. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING FIRE ALARM TO CIRCUIT ID.
 - TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
 - LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
 - PROJECTOR AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE RECEPTACLE POWERING PROJECTOR (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (AS BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX.
 - RE-INSTALL POWER OUTLET WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF OUTLET SHALL BE PERFORMED AND OUTLET SHALL BE FULLY OPERABLE.

REMOVAL & RE-INSTALLATION OF CEILING. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



BUILDING H REMODEL FLOOR PLAN - AREA 1 1/8" = 1'-0" 1



BUILDING H REMODEL FLOOR PLAN - AREA 2 1/8" = 1'-0" 2

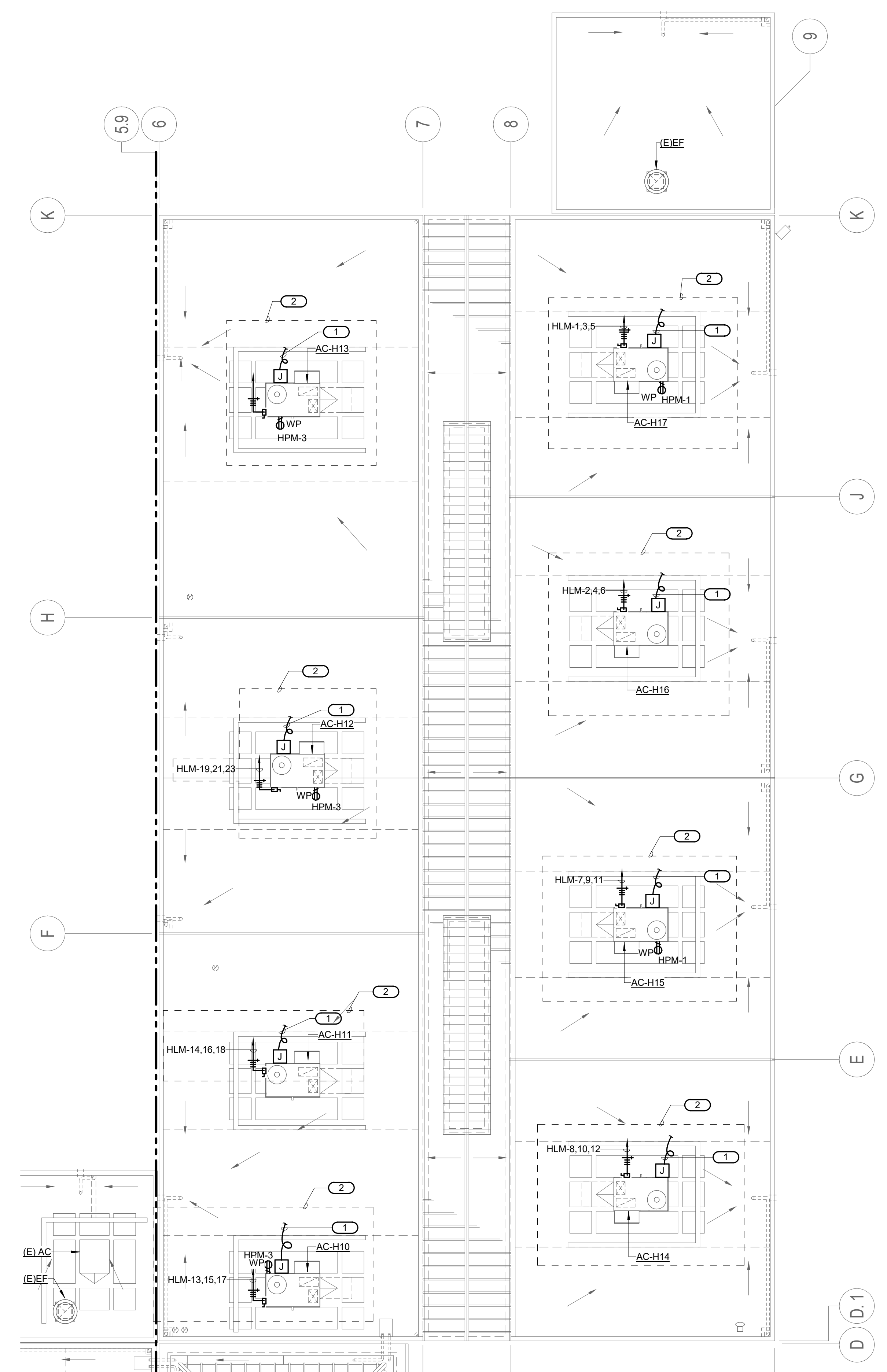
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GENERAL NOTES

1. PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
2. ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
3. COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 5B RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOXES AND PANELBOARDS MOUNTED IN ROOF.

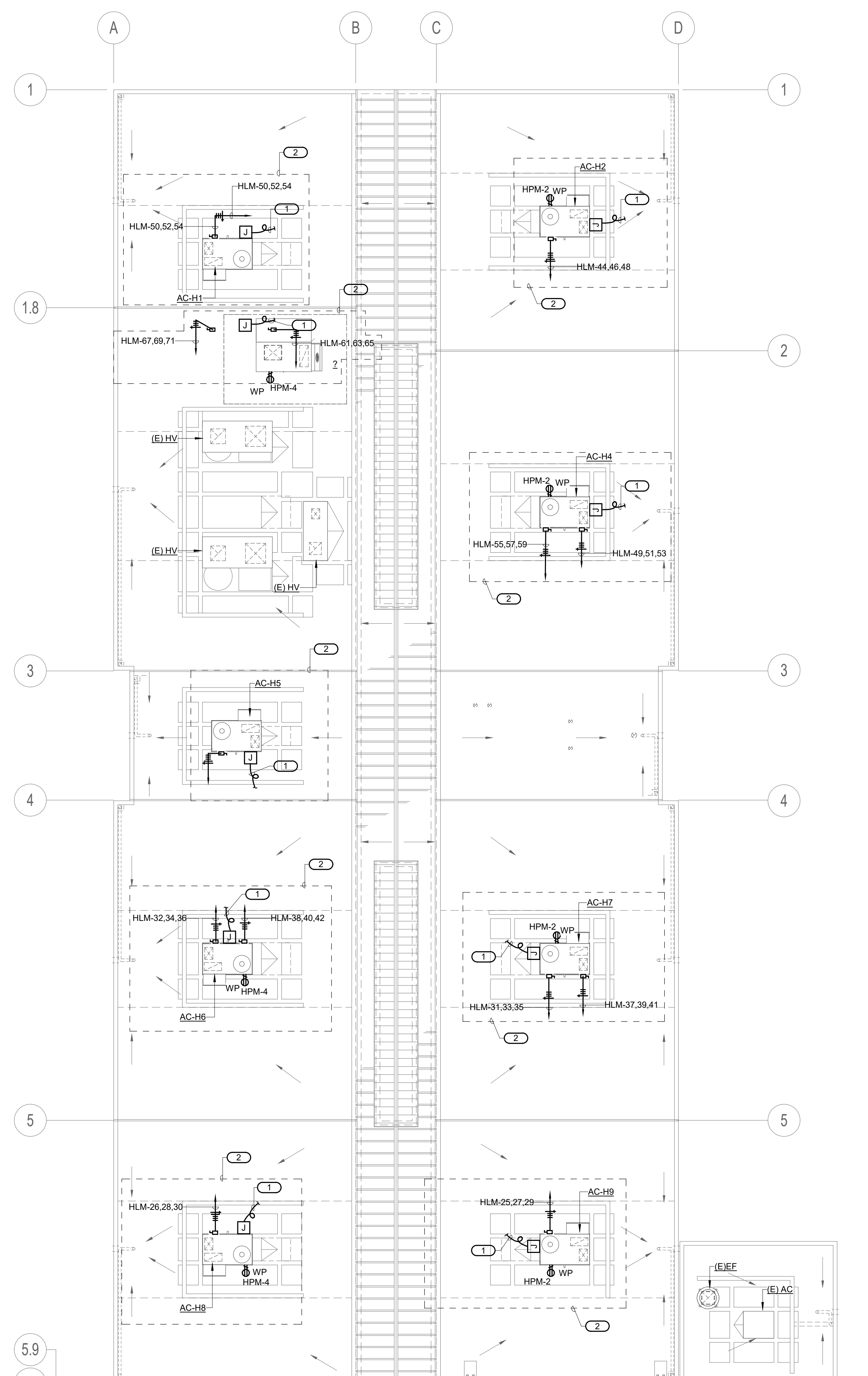
KEYED NOTES

1. PROVIDE 3/4" O.D. (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
2. DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING HV UNIT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.

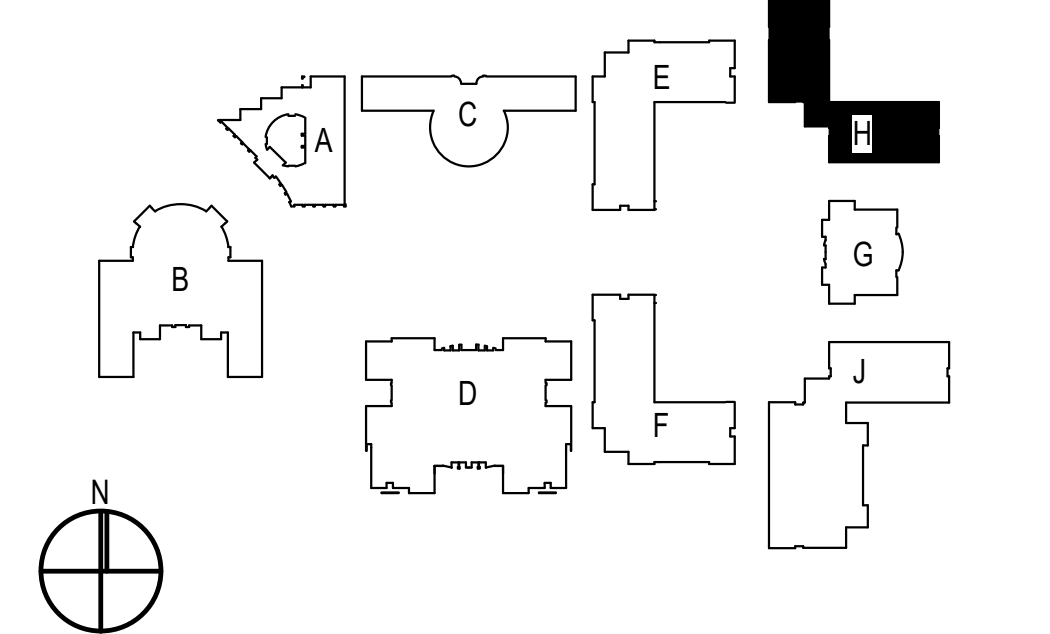


EQUIPMENT CONNECTION SCHEDULE BUILDING - H						POWER EXHAUST				
ITEM NO.	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	V - Ø	MCA	NEMA 3R	MOCP	WIRE SIZE
AC-H1	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H2	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H3	460 - 3	33.9	YES	60AS/45AF	3#6 & 1#10GND - 1 1/4" C	480 - 3	5	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C
AC-H4	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C
AC-H5	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H6	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C
AC-H7	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C
AC-H8	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H9	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H10	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H11	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H12	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H13	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H14	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H15	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H16	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-H17	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					

BUILDING H REMODEL ROOF PLAN - AREA 2 1/8" = 1'-0" 2



BUILDING H REMODEL ROOF PLAN - AREA 1 1/8" = 1'-0" 1



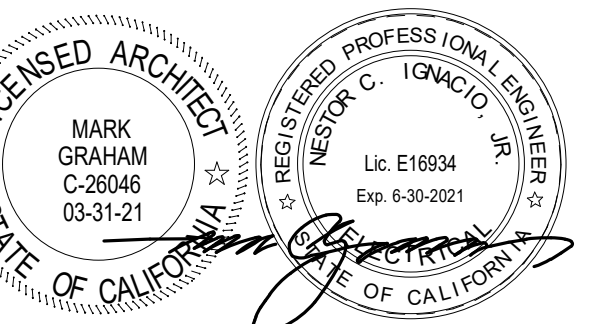
SITE KEY PLAN

NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project Number	

BUILDING H REMODEL ROOF PLAN

DRAWING NUMBER: **EH3.1**



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ONTARIO, CA 91764
909-477-6915 FAX: 909-477-6916
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1	08/25/20	Addendum 1
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REVISIONS			

DRAWN: Author CHECKED: Checker
DATE: Issue Date SCALE: As indicated
PROJECT NUMBER: Project Number

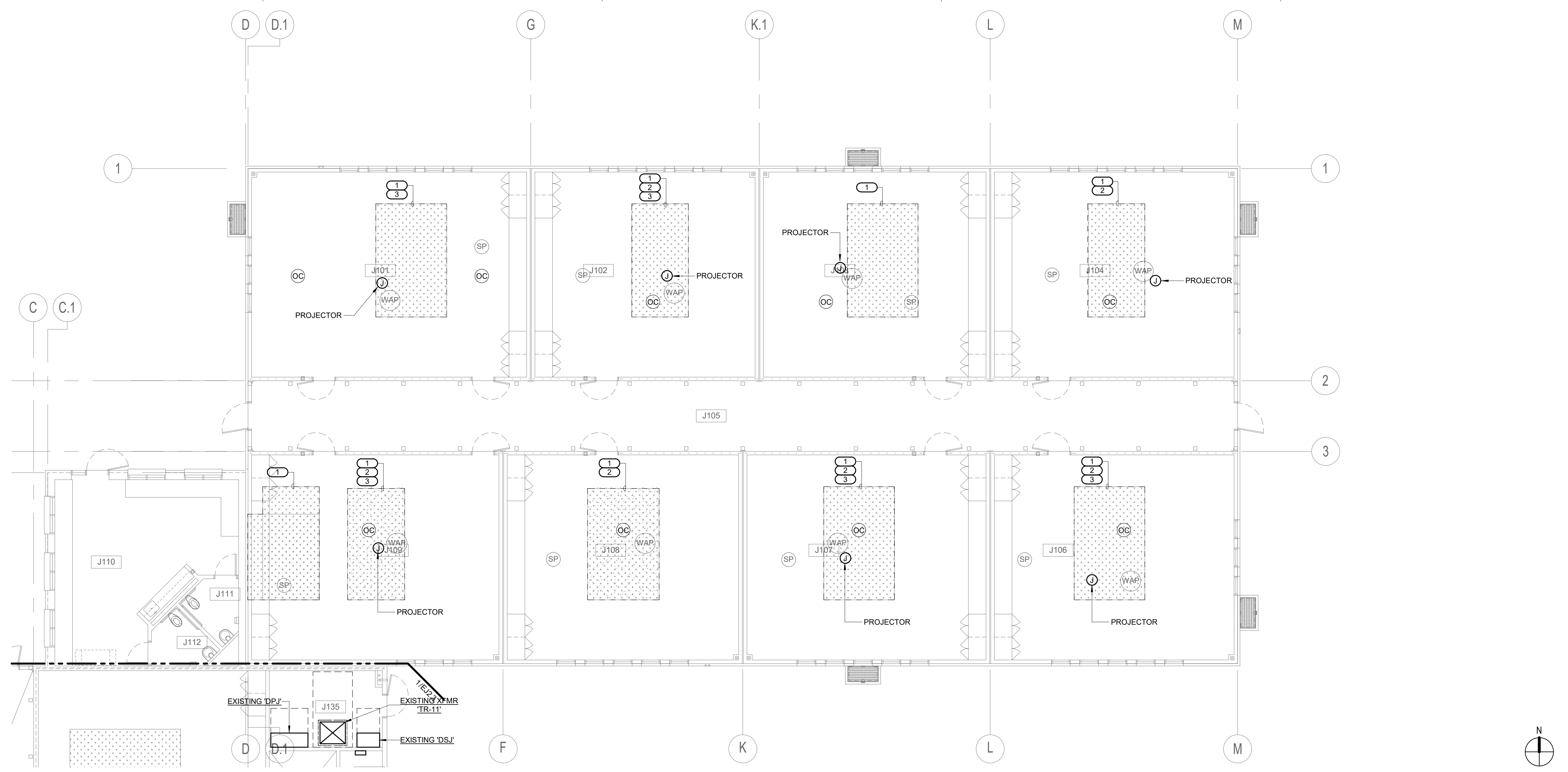
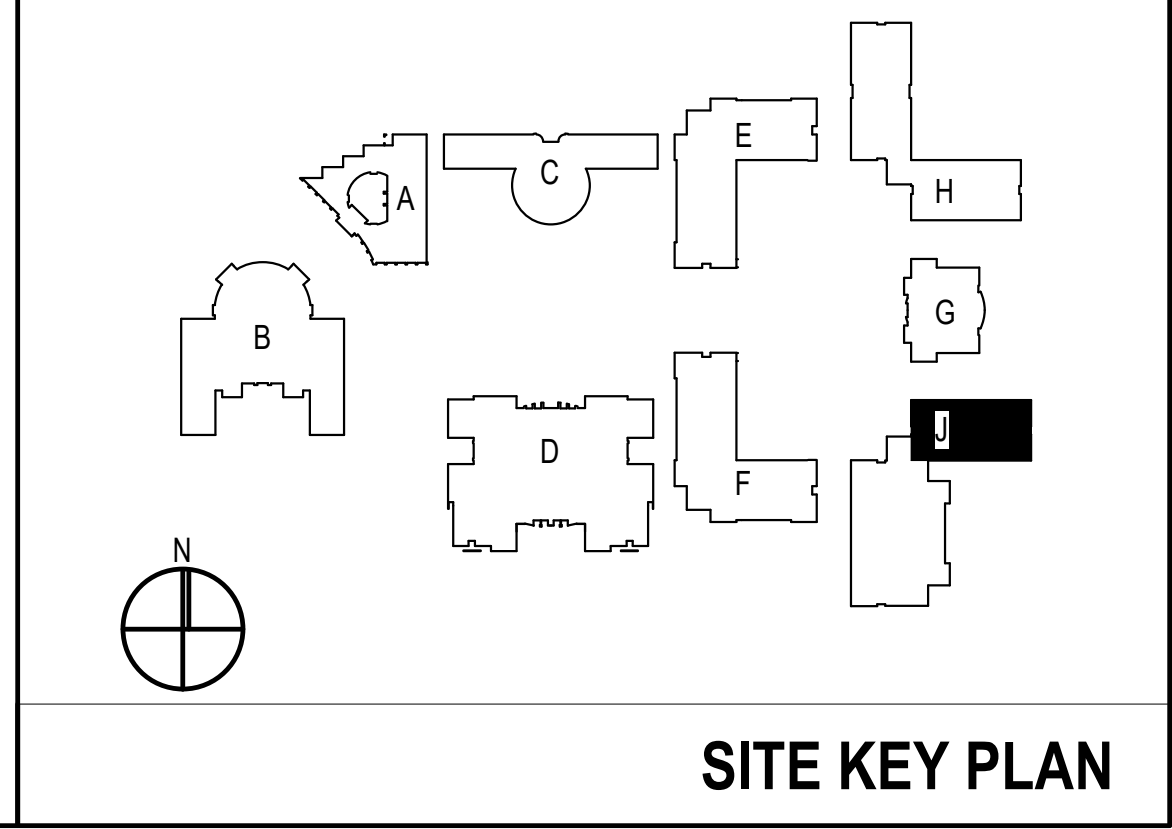
**BUILDING J REMODEL
FLOOR PLAN - AREA A**

DRAWING NUMBER: **EJ2.2**

KEYED NOTES

- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL-RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL-RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR, FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROJECTOR AFFECTED DURING REMOVAL-RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE RECEPTACLE POWERING PROJECTOR (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX.
 - RE-INSTALL POWER OUTLET WITH MOUNTING EQUIPMENT BACK ON THE SAME CEILING LOCATION.
 - PROPER RE-INSTALLATION OF OUTLET SHALL BE PERFORMED AND OUTLET SHALL BE FULLY OPERABLE.

REMOVAL & RE-INSTALLATION OF CEILING. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.

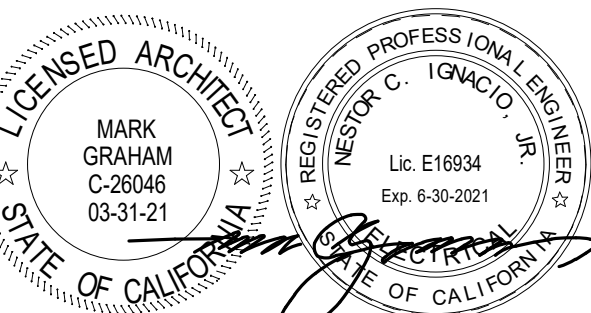


BUILDING J REMODEL FLOOR PLAN - AREA A 1/8" = 1'-0" 1

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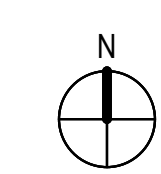
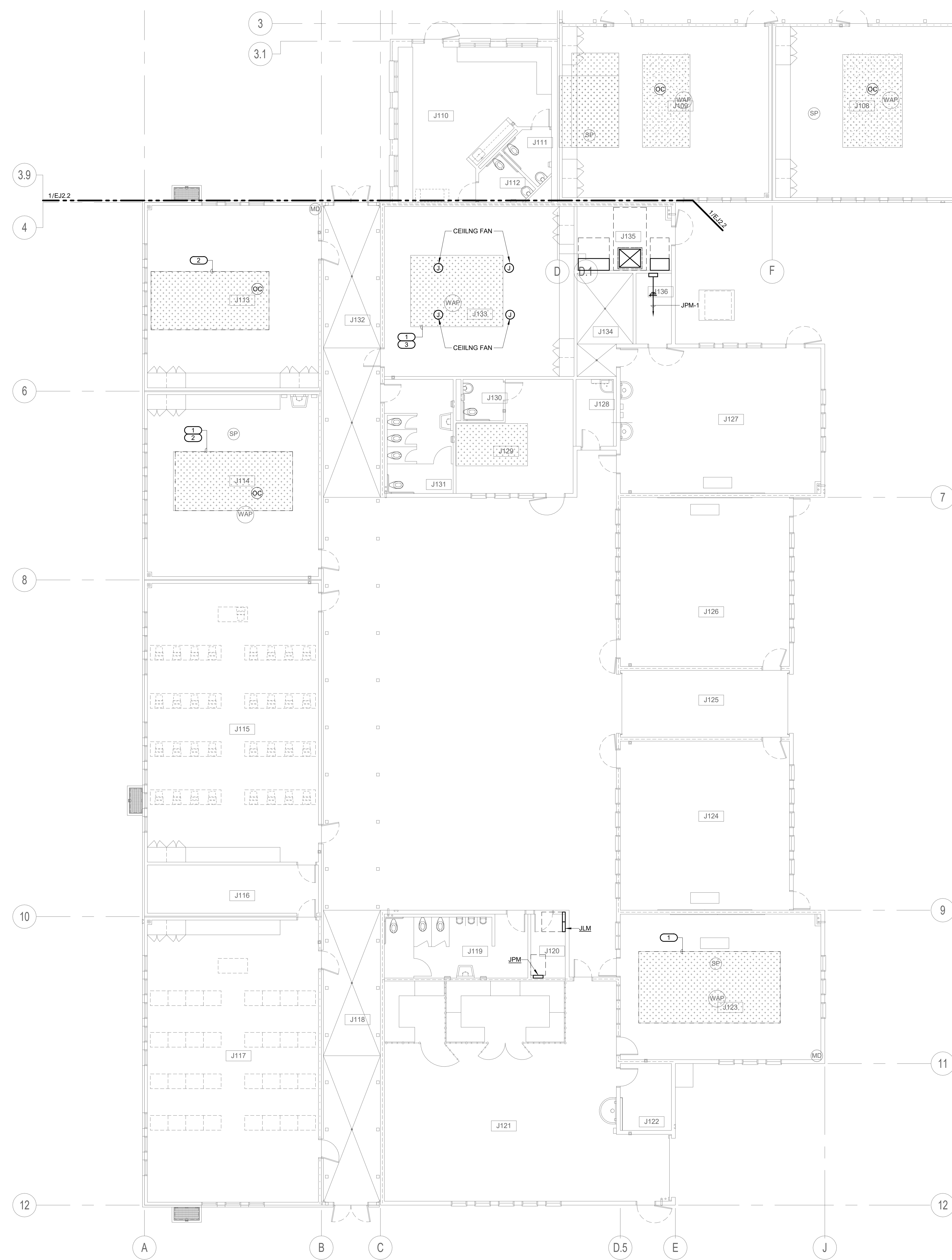
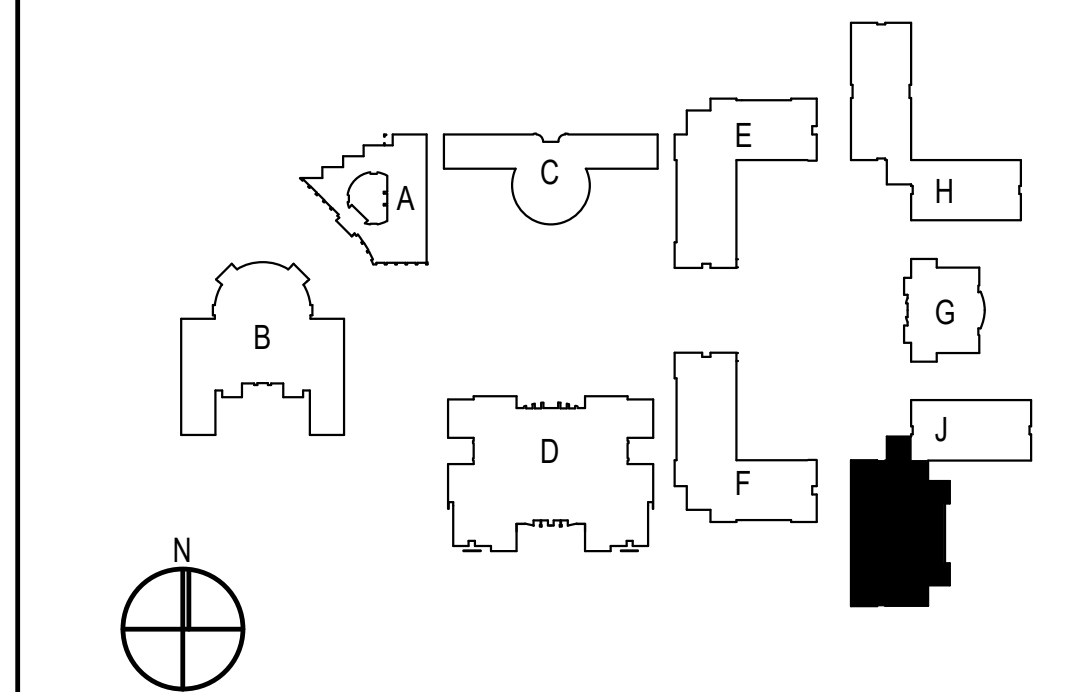
**BUILDING J REMODEL
FLOOR PLAN - AREA B**

DRAWING NUMBER: **EJ2.3**

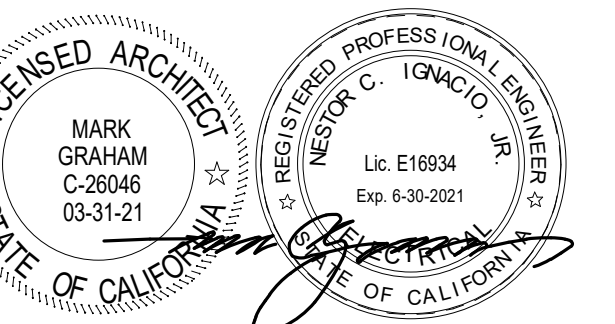
KEYED NOTES

- TECHNOLOGY/LOW VOLTAGE DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE WAP, MOTION DETECTOR, PROJECTOR, AND/OR SPEAKER FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP CAT-6 CABLE/SPEAKER CABLE ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- LIGHTING DEVICES AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE OCCUPANCY SENSOR, LIGHT SENSOR FROM TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) IF ANY FOR RE-INSTALLATION PURPOSES.
 - KEEP LOW VOLTAGE CABLE ON JUNCTION BOX IF ANY AND SUPPORT ON NON AFFECTED GRID IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROJECTOR AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE RECEPTACLE POWERING PROJECTOR (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX.
 - PROPER RE-INSTALLATION OF OUTLET SHALL BE PERFORMED AND OUTLET SHALL BE FULLY OPERABLE.
- CEILING FAN AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE CONDUCTORS POWERING PROJECTOR (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (4S BOX, & 4S RING/COVER, ROD/STEM/MOUNT BRACKET) FOR RE-INSTALLATION PURPOSES. CAP CONDUCTORS IN JUNCTION BOX.
 - RE-INSTALL CEILING FAN BACK ON THE SAME CEILING LOCATION.

REMOVAL & RE-INSTALLATION OF CEILING.
REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



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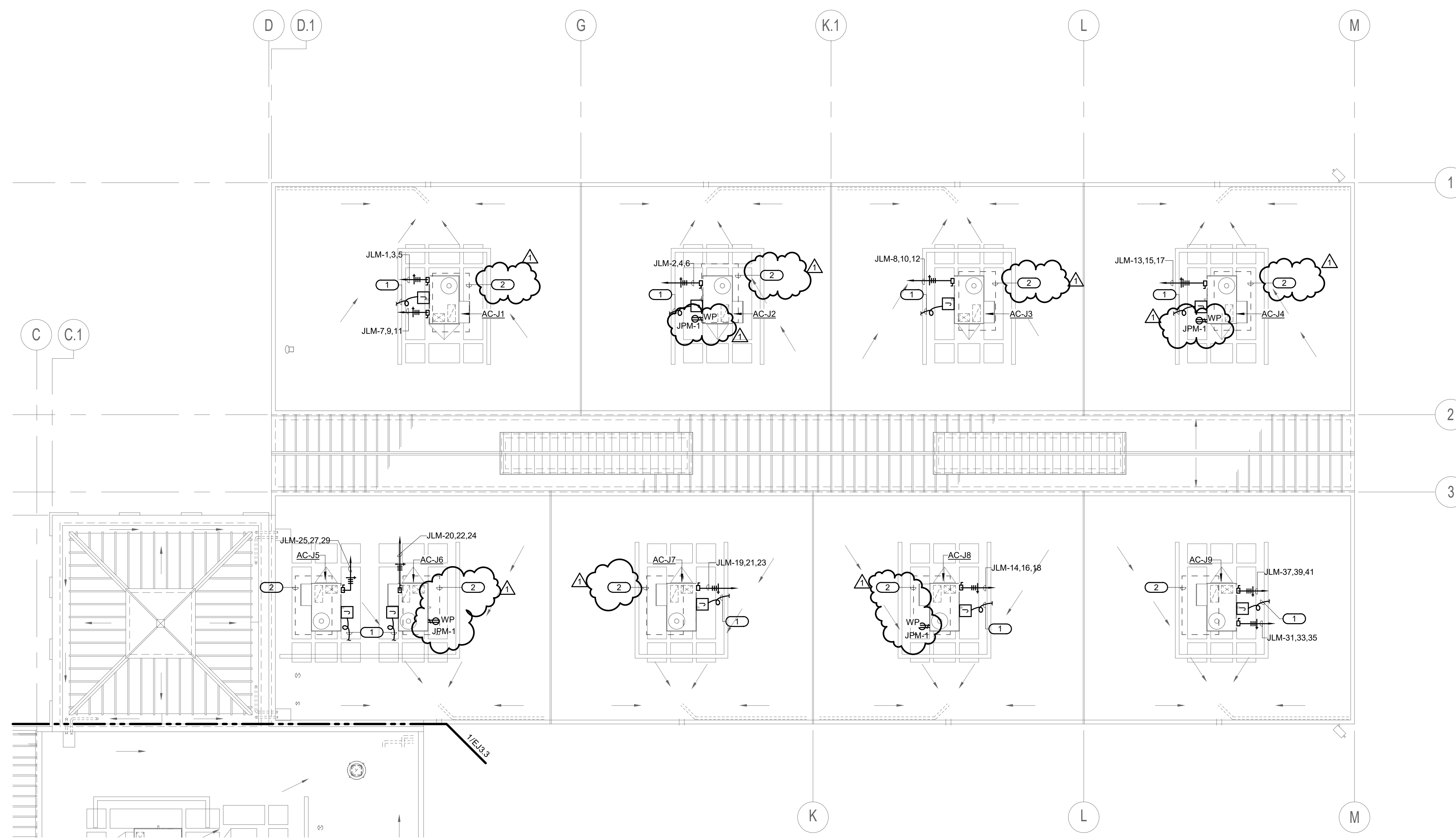
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GENERAL NOTES

- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR. THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 5B RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS MOUNTED IN ROOF.

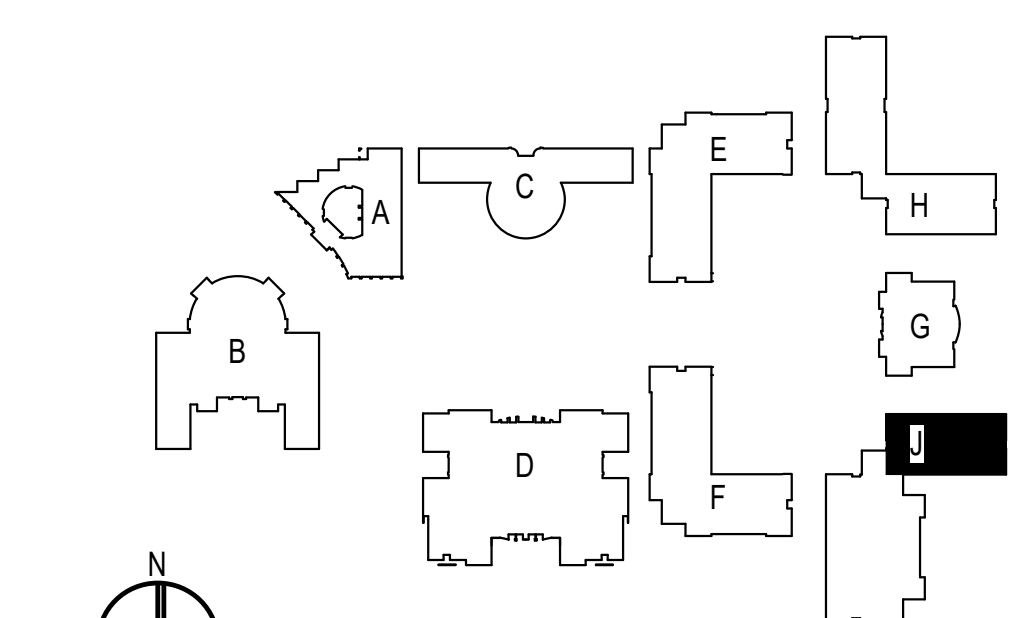
KEYED NOTES

- PROVIDE 34°C O.(S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONNECTION WIRING DIAGRAMS FOR ADDITIONAL INFORMATION FOR MECHANICAL WORKS.
- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING HV UNIT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.



BUILDING J REMODEL ROOF PLAN - AREA A 1/8" = 1'-0" 1

ITEM NO.	EQUIPMENT CONNECTION SCHEDULE BUILDING - J					POWER EXHAUST				
	V - Ø	MCA	NEMA 3R	MOCF	WIRE SIZE	V - Ø	MCA	NEMA 3R	MOCF	WIRE SIZE
AC-J1	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4"	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"
AC-J2	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J3	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J4	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J5	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J6	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J7	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J8	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J9	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4"	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"
AC-J10	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J11	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J12	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J13	460 - 3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J14	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J15	460 - 3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4"	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"
AC-J16	460 - 3	23	YES	30AS/30AF	3#8 & 1#10GND - 1"	480 - 3	3.5	YES	30AS/15AF	3#8 & 1#10GND - 1"
AC-J17	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					
AC-J18	460 - 3	23	YES	30AS/25AF	3#8 & 1#10GND - 1"	480 - 3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4"
AC-J19	460 - 3	13	YES	30AS/20AF	3#10 & 1#10GND - 3/4"	480 - 3	1.8	YES	30AS/15AF	3#10 & 1#10GND - 3/4"
AC-J20	460 - 3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4"					



SITE KEY PLAN

1	08/25/20	Addendum 1
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: 1/8" = 1'-0"
PROJECT NUMBER:	Project Number

**BUILDING J REMODEL
ROOF PLAN - AREA A**

DRAWING NUMBER: **EJ3.2**

1	08/25/20	ADDENDUM 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE: 1/8" = 1'-0"
PROJECT NUMBER: Project	Number

**BUILDING J REMODEL
ROOF PLAN - AREA B**

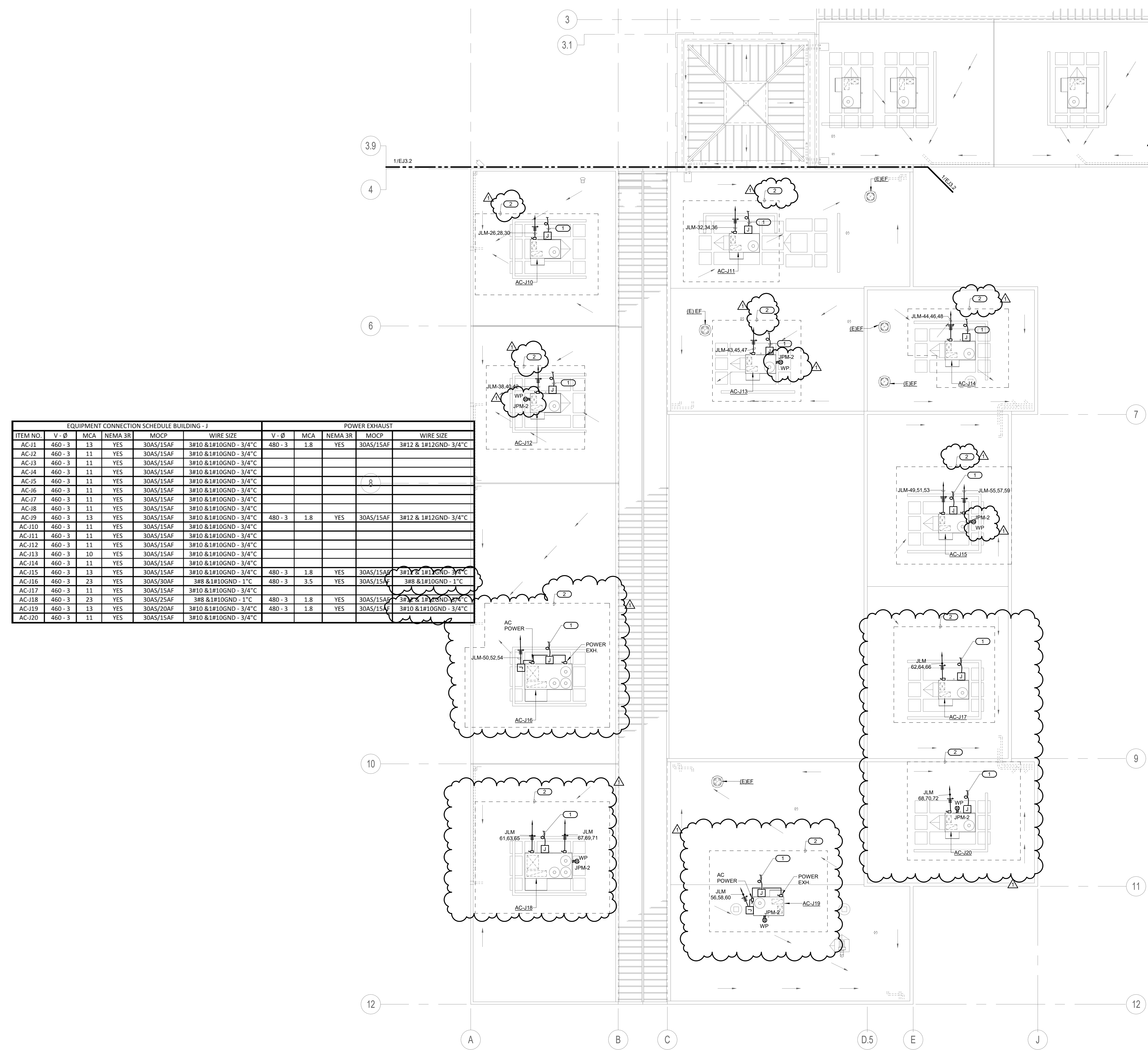
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GENERAL NOTES

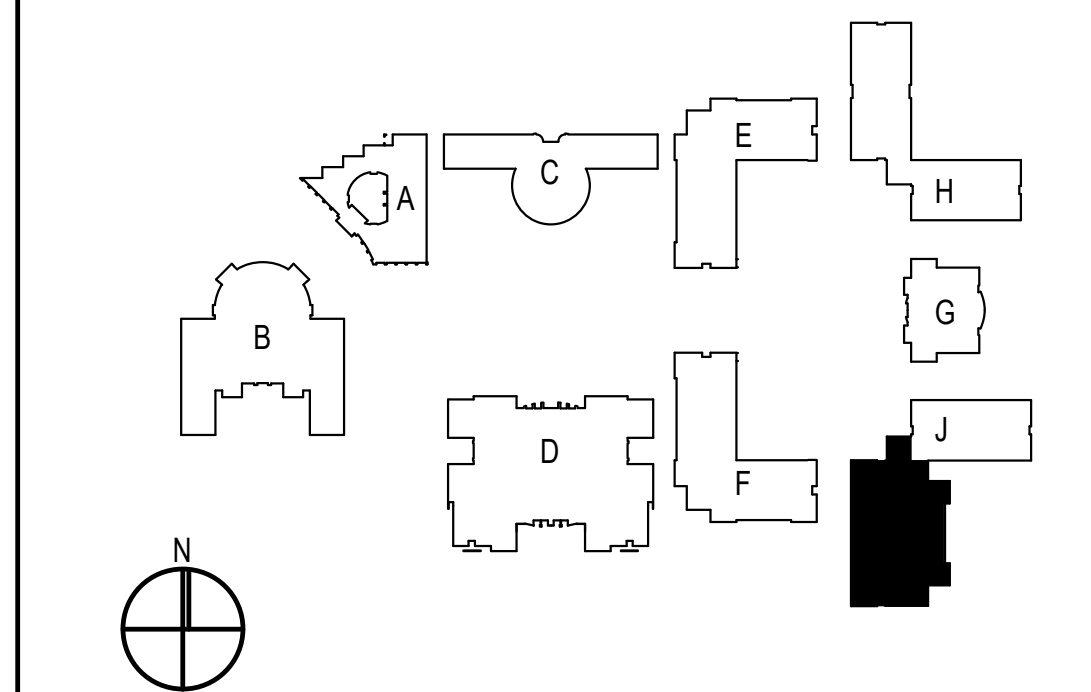
- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION. REFER TO DETAIL THIS SHEET.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFI, MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- COATINGS: APPLY MARINE COATING BY CERTIFIED LICENSED APPLICATOR THE COATING PRODUCT MANUFACTURER SHALL BE ABLE TO DOCUMENT A CLASS 58 RESULT ON A CROSS HATCH ADHESION TEST (ASTM D5339) AND THE TESTING FOR A MINIMUM 4000 HOURS IN BOTH SALT SPRAY (ASTM B117) AND ACID SALT SPRAY (ASTM G85) TEST. THE TOTAL DRY FILM THICKNESS OF THE COATING SHALL BE 1MIL. THE COATING SHALL PROVIDE INHERENT PROTECTION AGAINST ULTRAVIOLET RADIATION AND HAVE A DRY TEMPERATURE RESISTANCE FROM -4°F TO 302°F. THE FOLLOWING COMPONENTS SHALL BE COATED: ELECTRICAL DISCONNECT SWITCH, J-BOX'S AND PANELBOARDS.

KEYED NOTES

- PROVIDE 3/4" O (S) TO RESPECTIVE DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION ON MECHANICAL PLANS.
- DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXISTING HV UNIT. REMOVE CONDUIT AND WIRE BACK TO SERVING PANEL. REFER TO MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.



EQUIPMENT CONNECTION SCHEDULE BUILDING - J					POWER EXHAUST					
ITEM NO.	V-Ø	MCA	NEMA 3R	MOCP	WIRE SIZE	V-Ø	MCA	NEMA 3R	MOCP	WIRE SIZE
AC-J1	460-3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480-3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C
AC-J2	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J3	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J4	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J5	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J6	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J7	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J8	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J9	460-3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480-3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C
AC-J10	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J11	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J12	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J13	460-3	10	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J14	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J15	460-3	13	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C	480-3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C
AC-J16	460-3	23	YES	30AS/30AF	3#8 & 1#10GND - 1" C	480-3	3.5	YES	30AS/15AF	3#8 & 1#10GND - 1" C
AC-J17	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					
AC-J18	460-3	23	YES	30AS/25AF	3#8 & 1#10GND - 1" C	480-3	1.8	YES	30AS/15AF	3#12 & 1#12GND - 3/4" C
AC-J19	460-3	13	YES	30AS/20AF	3#10 & 1#10GND - 3/4" C	480-3	1.8	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C
AC-J20	460-3	11	YES	30AS/15AF	3#10 & 1#10GND - 3/4" C					



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FIRE ALARM NOTES

- 1. THIS IS A COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL PER 2019 CFC 907.2.3 AND 2013 CBC 907.2.3.
2. THE NEW FIRE ALARM SYSTEM EXTENSION IS CONFIGURED TO A FULLY AUTOMATIC SYSTEM, AS IS THE EXISTING INSTALLATION.
3. THE FIRE ALARM SYSTEM INDICATED ON THESE DRAWINGS IS APPROVED BY CALIFORNIA STATE FIRE MARSHAL AND SHALL BE INSTALLED AS DESCRIBED ON THESE DRAWINGS AND AS NOTED IN THE SPECIFICATIONS. ANY CHANGES TO THESE PLANS, I.E. DELETION, RELOCATION OR ADDING OF DEVICES SHALL BE RESUBMITTED TO THE STATE FIRE MARSHAL FOR APPROVAL.
INSTALLATION OF FIRE ALARM SYSTEM MAY START AFTER IMEG RECEIVES THESE APPROVED DRAWINGS. A O.R. SHALL STAMP AND SIGN ALL DRAWINGS.
4. ALL WIRING AND INITIATING DEVICES SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION (F/PANEL TO SUPERVISE ALL CIRCUITS AND INITIATING DEVICES).
5. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR IN AND FOR OUT.
6. ALL WIRING TO BE IN CONDUIT.
7. ALL TERMINATIONS IN JUNCTION BOXES, PULL BOXES AND TERMINAL CABINETS SHALL BE ON PRE-MOUNTED TERMINAL BLOCKS. DO NOT USE WIRE NUTS FOR SPLICING. DO NOT SPLICE WIRES IN ANY BOXES.
8. ALL CONDUIT SIZES INDICATED IN DRAWINGS ARE MINIMUM CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS BUT SHALL NOT BE SMALLER THAN 3/4 INCH.
9. ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS AND GROUNDS.
10. FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS INDICATE.
11. CONDUIT AND JUNCTION/BACK BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.
12. THE SYSTEM SHALL CONFORM TO TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT.
13. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF, AND IN A MANNER ACCEPTABLE TO, THE ENFORCING AGENCY.
14. THE CONTRACTOR SHALL REPROGRAM AND CERTIFY ADDRESSABLE FIRE ALARM CONTROL PANEL TO ACCOMMODATE ADDITIONAL DEVICES.
15. FIRE ALARM SYSTEM SHALL BE INSTALLED BY FACTORY AUTHORIZED REPRESENTATIVE.
16. CONDUCTOR LENGTHS AND DEVICE QUANTITIES ARE SHOWN SOLELY FOR CALCULATION PURPOSES ONLY, AND SHALL NOT BE USED FOR BID TAKE-OFF.
17. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF CALIFORNIA ELECTRICAL CODE. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA-ORS. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE AUTHORITY HAVING JURISDICTION.
18. PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TEST ASSEMBLY ACCEPTABLE TO DSA-ORS.
19. ALL FIRE ALARM AND COMMUNICATIONS WIRES AND CABLES SHALL BE ONE CONTINUOUS LENGTH FROM A BUILDING TERMINAL CABINET TO ANOTHER BUILDING TERMINAL CABINET OR JUNCTION BOX. ABSOLUTELY NO SUBGRADE SPLICES WILL BE PERMITTED! PROVIDE TERMINAL BLOCKS WITH MOUNTING IN TERMINAL CABINETS ONLY AS REQUIRED.
20. EVERY ALARM SIGNALING DEVICE INSTALLED SHALL BE OF THE SAME BASIC TYPE (BELLS, HORNS, CHIMES, SPEAKERS, ETC.) AS ALL OTHER SIGNALING DEVICES IN THE FACILITY. (EXCEPTION: ANY SIGNALING DEVICES REQUIRED FOR THE DEAF OR HEARING IMPAIRED PER 2019 NFPA 72.
21. INSULATED CONDUCTORS USED IN WET LOCATIONS SHALL BE (1) LEAD-COVERED, (2) TYPES RH, TW, THW, THHW, THWN, XHHW, OR (3) OF A TYPE LISTED FOR USE IN WET LOCATIONS. CABLES OF ONE OR MORE CONDUCTORS USED IN WET LOCATIONS SHALL BE OF A TYPE LISTED FOR USE IN WET LOCATIONS. CONDUCTORS USED FOR DIRECT BURIAL APPLICATIONS SHALL BE OF A TYPE LISTED FOR SUCH USE. (PER 2019 CEC ARTICLE 310).
22. THE FIRE ALARM DEVICE SUPPLIER SHALL FURNISH ALL SURFACE MOUNT ENCLOSURES FOR PULLSTATIONS AND SKIRTS FOR ALL VISUAL AND AUDIO VISUAL DEVICES TO CONCEAL AS BACK BOXES.
23. AFTER THE SYSTEM IS COMPLETED, ALL ADDRESSABLE DEVICES SHALL BE PROGRAMMED AT THE FACP ACCORDING TO THE ACTUAL BUILDING ROOM NUMBER. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE SCHOOL DISTRICT TO OBTAIN ACCURATE ROOM NUMBER INFORMATION.
24. POWER SERVICES SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING & LOCKING DEVICE AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
25. PROVIDE CALIFORNIA TEMPORAL, THREE TONE DISTINCTIVE FIRE ALARM SOUND. (2019 CFC SEC. 907.6.2.1.3 & 2019 NFPA 72 SEC. 18.4.2.1)
26. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS (2019 NFPA 72 SEC. 18.4.3.1) (i.e. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS45dBA PLUS 15dBA EQUAL = 60dBA MINIMUM ALARM TONE REQUIRED)

SCOPE OF WORK

THE SCOPE OF THE WORK AS STATED BELOW IS FOR DSA PLAN REVIEW PURPOSE ONLY AND DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

- 1. REMOVE EXISTING HEAT REPAIR UNITS AND MISCELLANEOUS HEATING EQUIPMENT, AND REPLACE WITH NEW AIR CONDITIONING UNITS FOR BUILDINGS A,B,C,D,E,F,G,H AND J. REMOVE EXISTING ROOF CURBS AND REPLACE WITH NEW ROOF CURBS. REMOVE PORTIONS OF ROOF TO ADD ADDITIONAL BEAMS TO SUPPORT NEW ROOF CURBS.
2. PATCH BACK ROOFING MATERIAL AS REQUIRED.
3. ADD NEW FIRE ALARM DEVICES AS REQUIRED. CO/SMOKE DETECTORS WHERE GAS BURNING UNIT OCCURS, DUCT DETECTOR FOR HVAC UNIT SHUTDOWN OVER 2000 CFM, AND FIRE SMOKE DAMPERS.

- 27. STROBES SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. (2019 NFPA 72 SEC. 18.5.3.1)
28. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
29. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR) DSA AFTER COMPLETION OF OPERATION ACCEPTANCE TEST. (2019 NFPA 72 SEC. 7.5.6 & 2019 CFC 901.6.2)
30. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
31. THE INSTALLING CONTRACTOR SHALL PROVIDE A STATEMENT OF COMPLIANCE ALONG WITH THE REQUEST FOR ACCEPTANCE TESTING PER 2019 NFPA-72.
32. OCCUPANCY OF THE BUILDINGS IS PROHIBITED UNTIL THE FIRE ALARM SYSTEM IS COMPLETED, TESTED, AND APPROVED PER 2019 NFPA 72.
33. SMOKE DETECTORS SHALL BE TESTED PER THE METHOD SHOWN IN 2019 CFC.
34. REACCEPTANCE TESTING SHALL BE PERFORMED AS REQUIRED BY 2019 NFPA 72.
35. ALL BACKUP BATTERIES FOR FIRE ALARM SYSTEM EQUIPMENT SHALL BE VISUALLY CHECKED FOR DATE OF INSTALLATION. ALL BATTERIES OVER 5 YEARS OLD SHALL BE REPLACED WITH NEW BATTERIES OF THE SAME MANUFACTURER, TYPE, AND AMP-HOUR RATING.
36. FIRE ALARM SYSTEMS SHALL BE SUPERVISED BY AN APPROVED UL LISTED CENTRAL STATION, OR REMOTE STATION (UL)X MONITORING COMPANY (UL)S (2019 CFC 907.2.3.5, 907.5.3.)
37. A SINGLE FAULT ON A PATHWAY CONNECTED TO THE ADDRESSABLE DEVICES SHALL NOT CAUSE THE LOSS OF MORE THAN 50 ADDRESSABLE DEVICES (2019 NFPA 72 SECTION 23.6.1)
38. THE DISTRICT SHALL RETAIN RECORD DRAWINGS ON THE PREMISES FOR A MINIMUM OF 3 YEARS, IN A DEDICATED FIRE ALARM RECORD DOCUMENT CABINET IN ACCORDANCE WITH NFPA 72, 7.7.2.
- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
- ALL RECORDED AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.
SYSTEM DOCUMENTS AS APPLICABLE:
- RECORD DRAWINGS/AS-BUILTS
- EQUIPMENT CUT SHEETS & CA SFM LISTINGS
- ALTERNATIVE MEANS AND METHODS
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
- SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
- EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
- EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
39. EXTRA DEVICES
DUE TO UNFORSEEN CONDITION, THE FOLLOWING EXTRA DEVICES SHALL BE INCLUDED IN THE CONTRACTORS BID:
a. CO DETECTORS 15 EACH
b. VULNERABLE DETECTORS 10 EACH
FOR BID PURPOSES, ALLOW TWENTY (20) FEET OF CONDUIT AND ITS SUPPORT SYSTEM TO INCLUDE FITTINGS, WIRES AND LABOR FOR EACH OF THE DEVICES LISTED ABOVE.
40. EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL THE NEW FIRE ALARM SYSTEM IS INSTALLED AND TESTED BY THE SCHOOL DISTRICT. OTHERWISE 24-HOURS FIRE WATCH SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR, PER CFC SECTION 901.4.

FIRE ALARM SYMBOL LIST

Table with 6 columns: SYMBOL, MFG, PART NO., DESCRIPTION, REMARKS, CSFM LISTING NO. Includes items like SIMPLEX, SILENT KNIGHT, DCC, FAA, RPS, FATS, SPACE AGE, SYSTEM SENSORS, SILENT KNIGHT, SK-CONTROL, SK-RELAY, SK-MONITOR, FBSD, WESTPENN, and END OF LINE RESISTOR.

FIRE ALARM WIRE DESIGNATION CHART

Table with 5 columns: SYMBOL, DESCRIPTION, NUMBER OF CONDUCTORS, SIZE, TYPE. Includes signaling line circuits (SLC), voice evac. circuit, 24 power, and communication cabling.

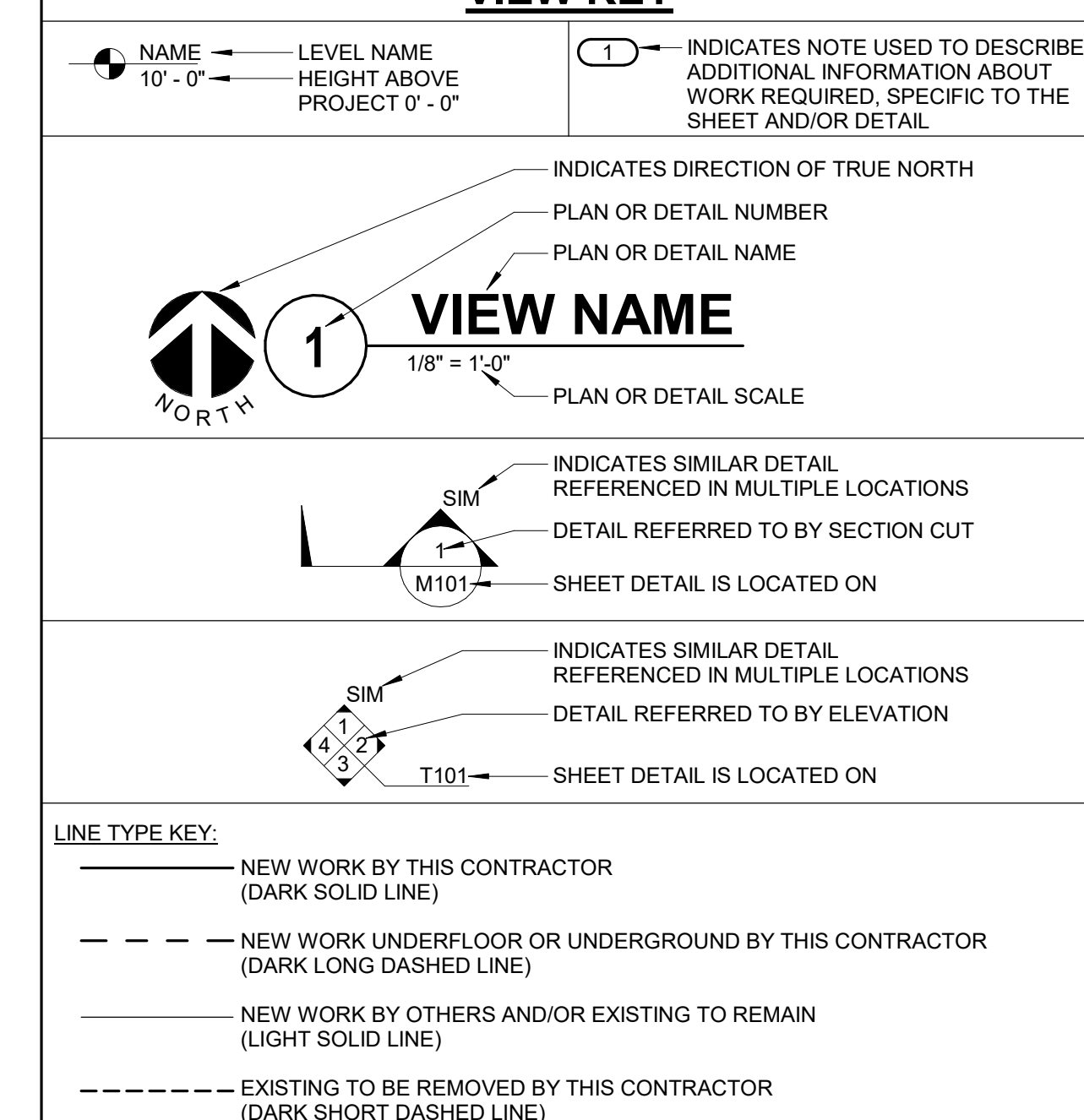
SEQUENCE OF OPERATION

Table with 6 columns: ACTION, BUILDING POWER FAILURE, CO DETECTOR, OPEN SHORT OR GROUND, DUCT DETECTOR. Lists actions like annunciate at fire control panel, sound control panel trouble buzzer, activate audible alarm signals, etc.

ELECTRICAL SHEET INDEX

Table with 2 columns: SHEET NO., SHEET TITLE. Lists sheets from FA0.1 to FA3.1 including coversheet, site plan, and various building floor plans.

VIEW KEY



APPLICABLE CODES

- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1
2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6
2019 CALIFORNIA FIRE CODE (FCF) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2019 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)
2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12
AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG) 1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
STANDARDS:
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (2019)
NFPA 14 STANDPIPE SYSTEMS (2019)
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS (2017)
NFPA 17a WET CHEMICAL SYSTEMS (2017)
NFPA 20 STATIONARY PUMPS (2019)
NFPA 22 WATER TANKS FOR PRIVATE FIRE PROTECTION (2018)
NFPA 24 PRIVATE FIRE MAINS (2019)
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2019)
NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVES (2019)
NFPA 92 STANDARD FOR SMOKE CONTROL SYSTEMS (2018)

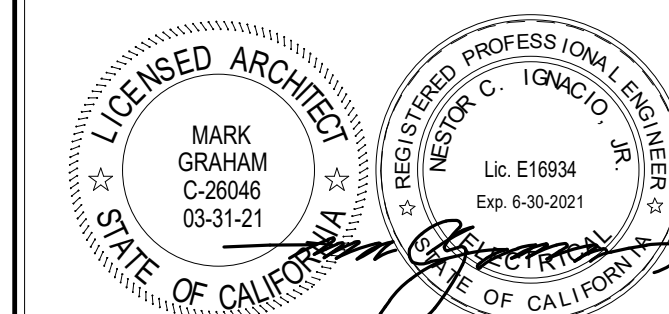


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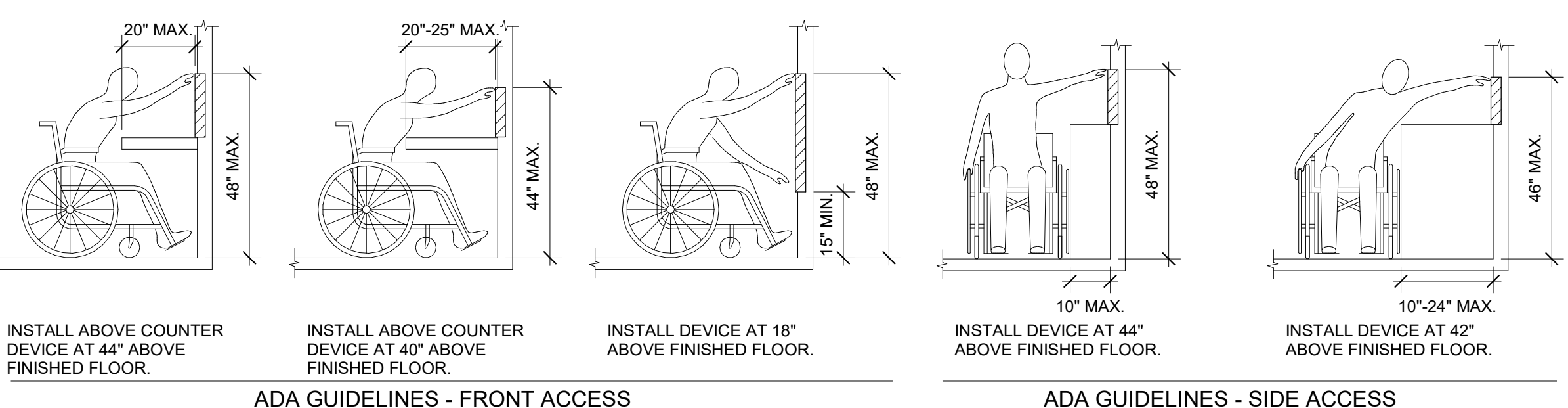
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Table with 3 columns: DATE, BY, DESCRIPTION. Includes entry for 08/25/20 Addendum 1.

Table with 2 columns: DRAWN, CHECKED. Includes entry for Author and Checker.

COVERSHEET

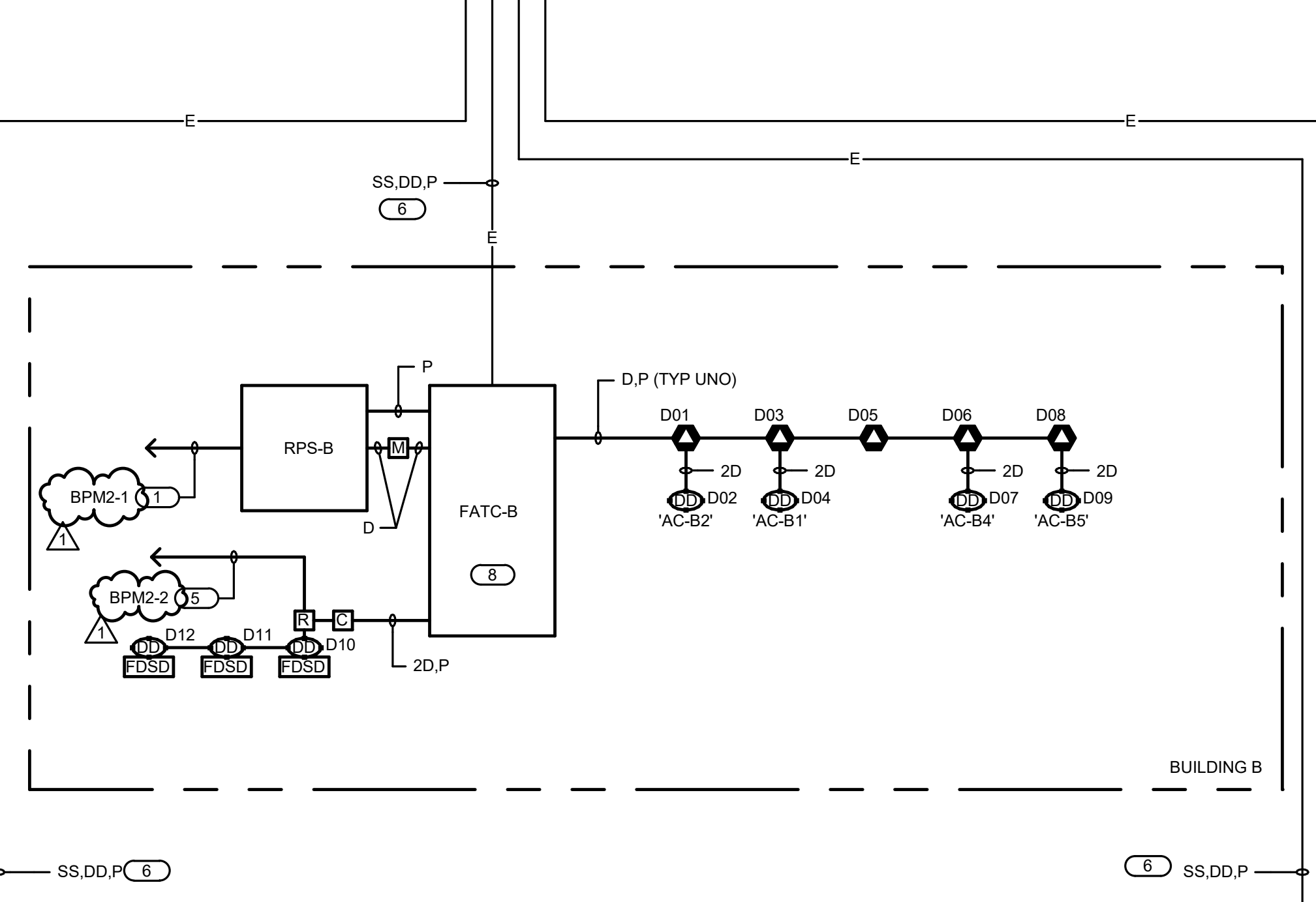
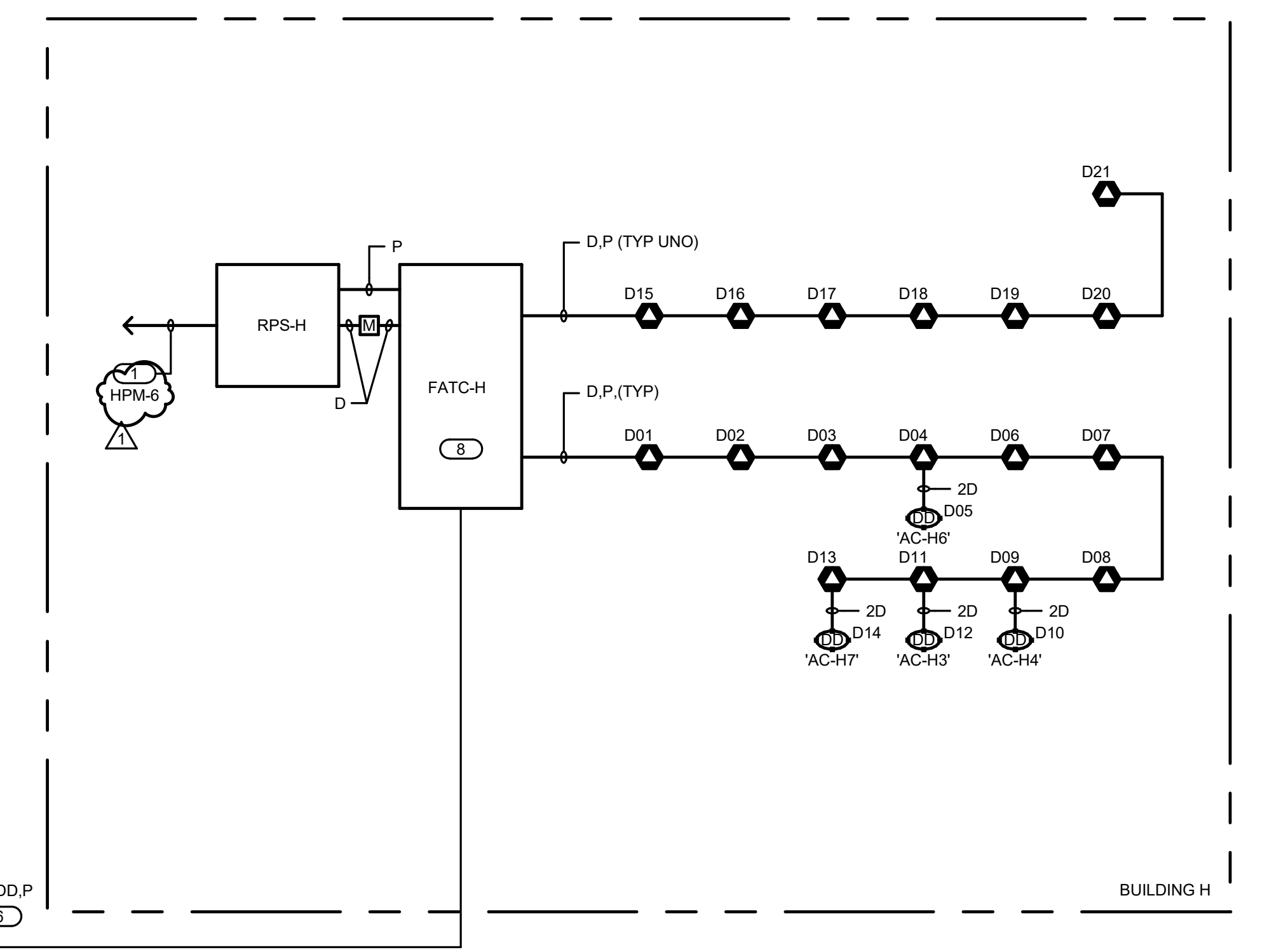
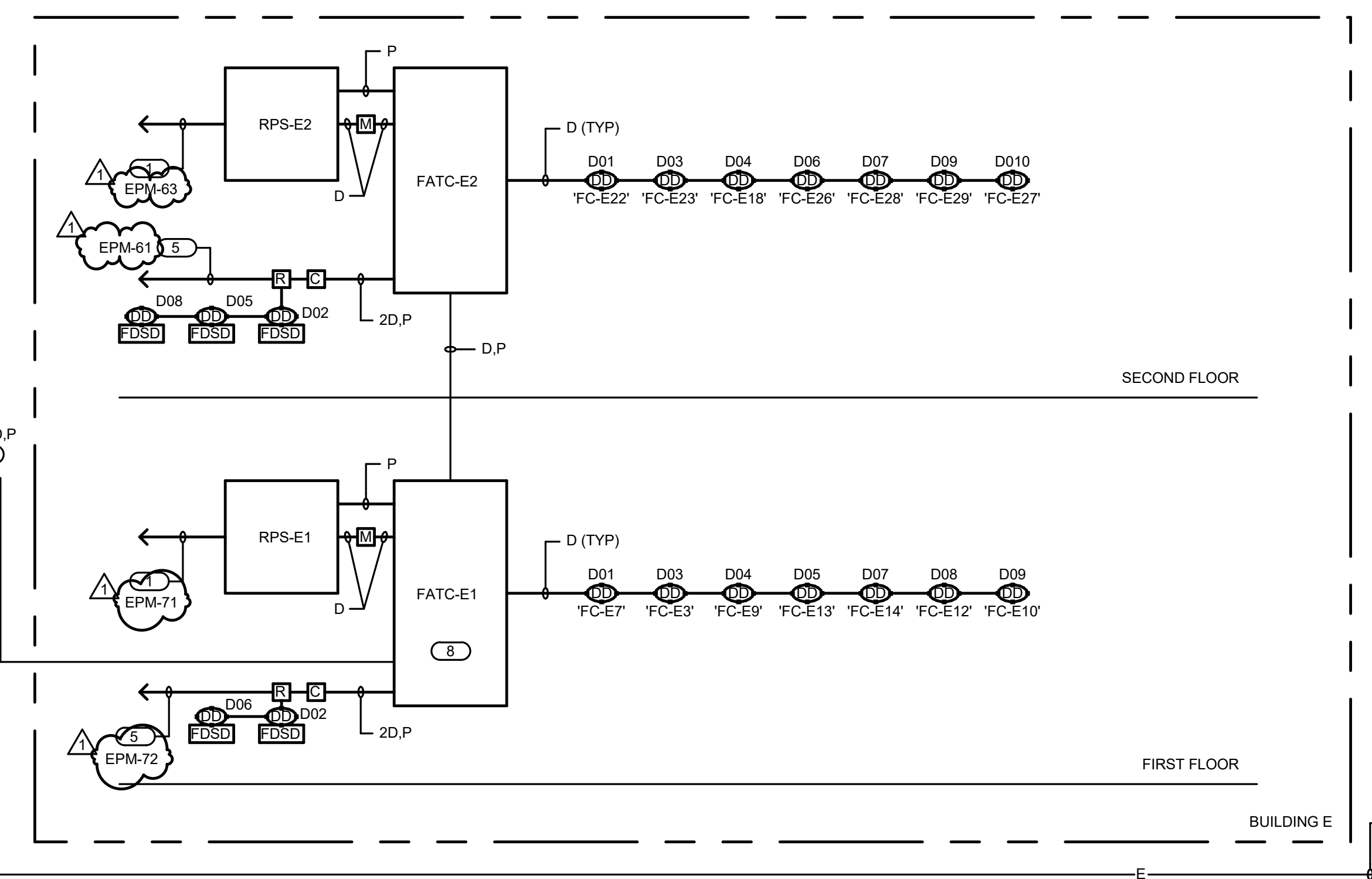
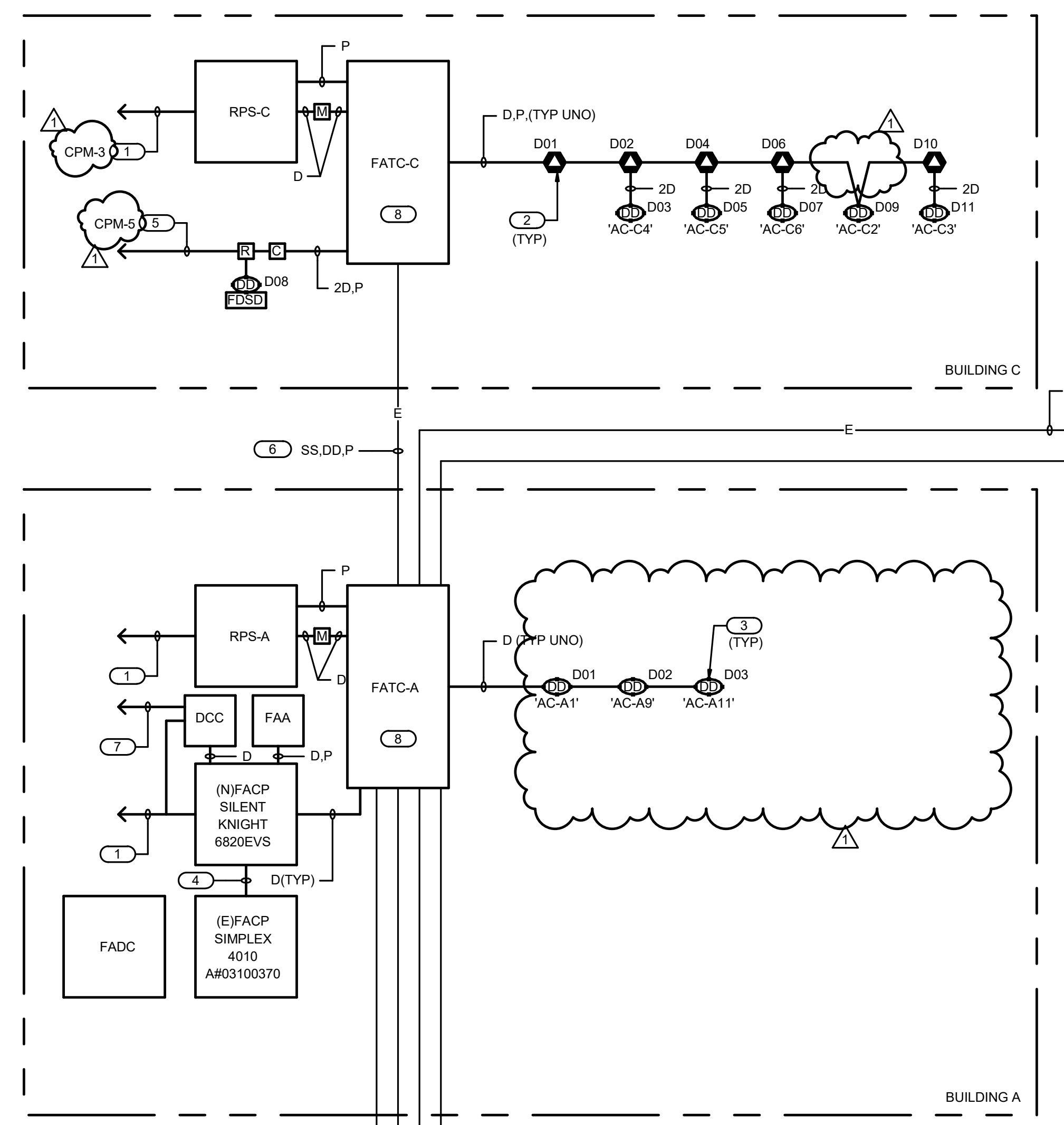
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ADA STANDARDS FOR ACCESSIBLE DESIGN

KEYED NOTES

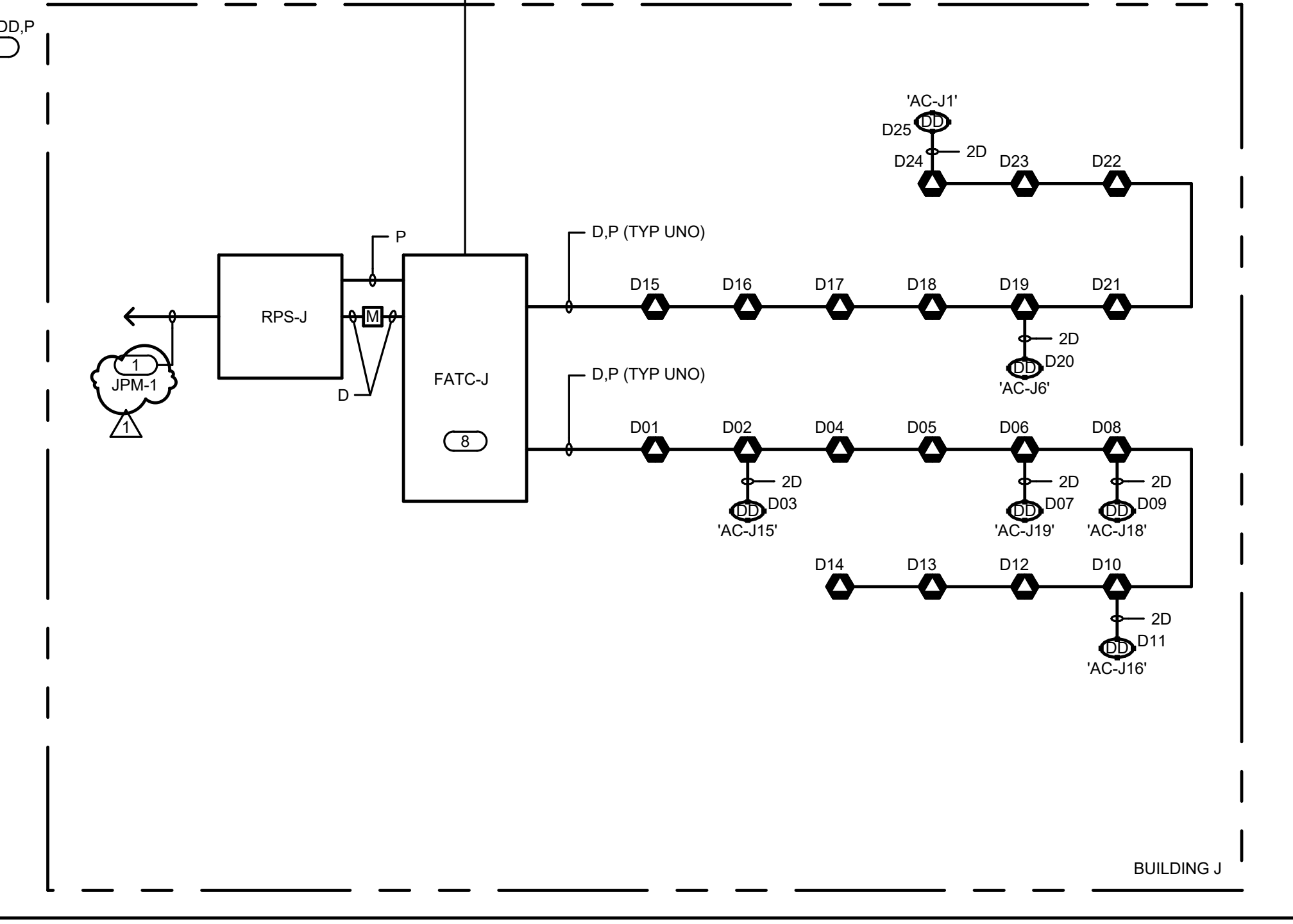
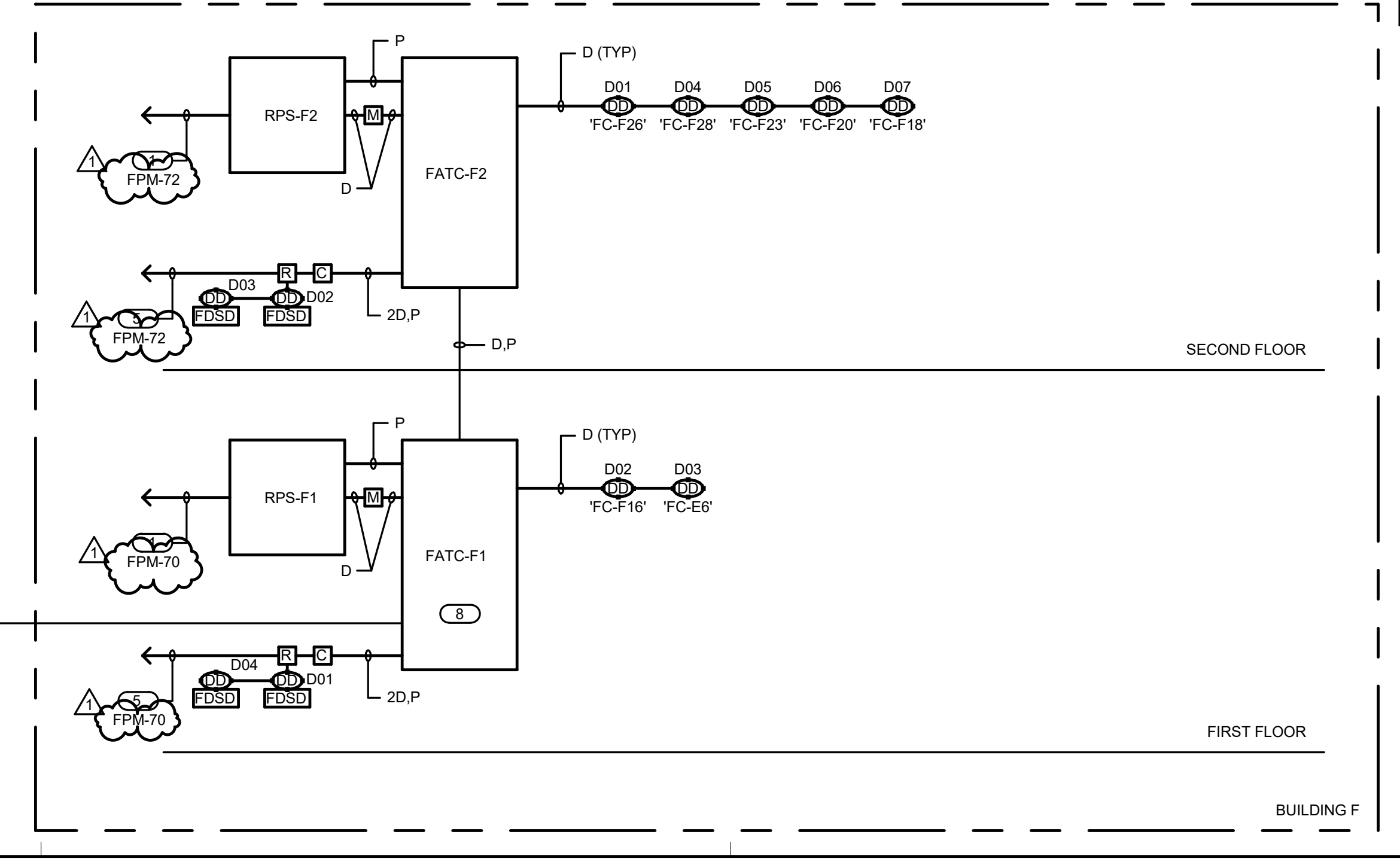
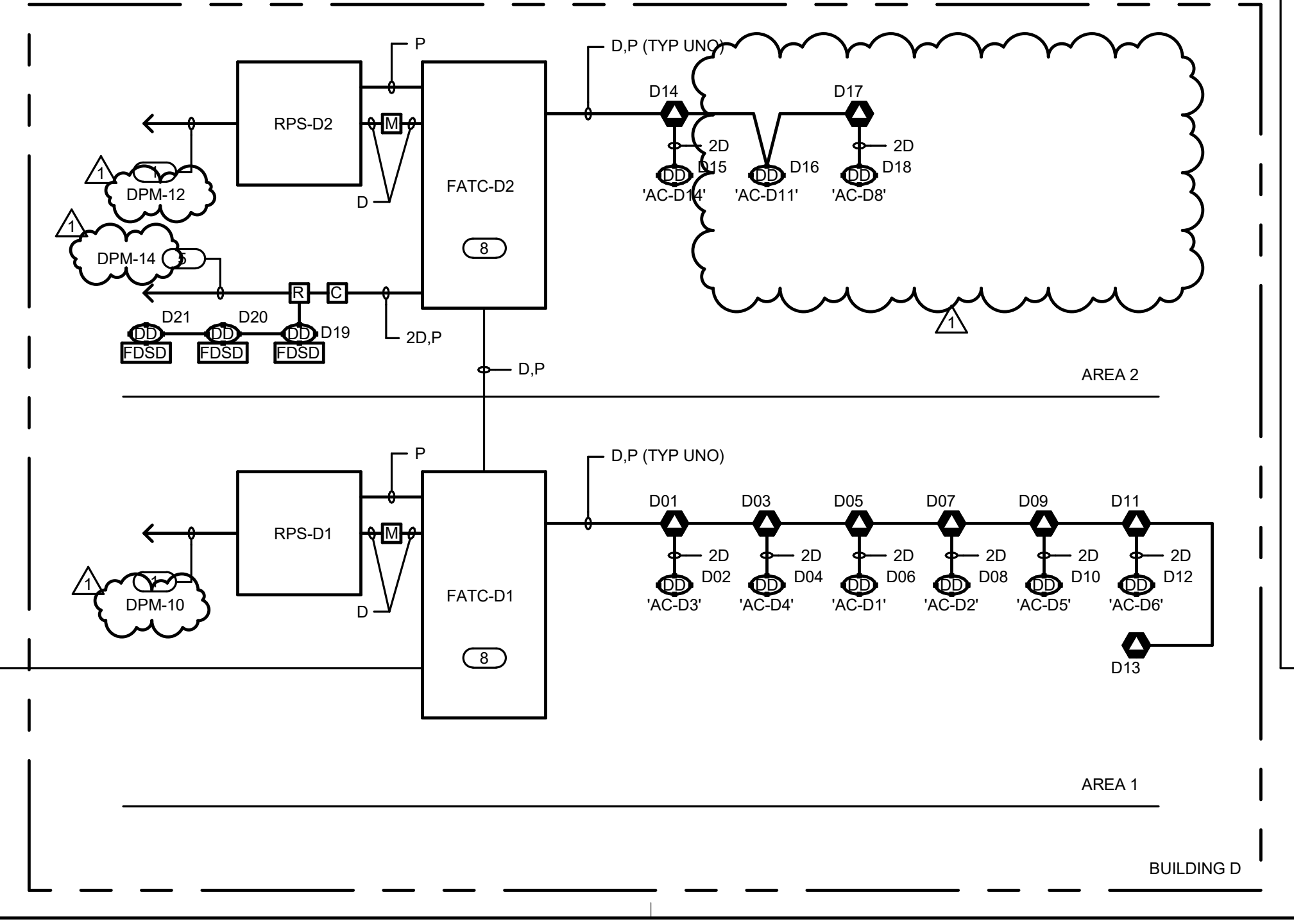
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM" TO CIRCUIT ID. REFER TO FLOOR PLANS FOR CIRCUIT ASSIGNMENTS.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY RACK. PROVIDE FOR NOT DOWN. PROVIDE IN FACP. DISCONNECT FROM EXISTING FACP AND REPROGRAM EXISTING FACP FOR REMOVAL OF EXISTING DEVICE ACCORDINGLY.
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY RACK. PROVIDE FOR NOT DOWN. PROVIDE IN FACP. DISCONNECT FROM EXISTING FACP AND REPROGRAM EXISTING FACP FOR REMOVAL OF EXISTING DEVICE ACCORDINGLY.
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- PROVIDE ALL THE REQUIRED COMPONENTS AND MODULES FOR MONITORING BETWEEN THE EXISTING FIRE ALARM CONTROL PANEL AND THE NEW FACP.
- PROVIDE NEW UL AND CSM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
- RUN 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA RELAY MODULE FOR DAMPER CLOSURE.
- EXISTING CONDUIT WITH NEW FA WIRES. TO NEW FACP VIA EXISTING UG PULLBOXES. REFER TO SITE PLAN.
- PROVIDE DATA LINE AND ACTIVATED CELLULAR LINE. COORDINATE WITH OWNER.
- PROVIDE 12 FEET OF COIL SPEAKER WIRE FOR FUTURE USE.



BATTERY CALCULATION FOR FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLIES

DESCRIPTION	FACP				RPS-A				RPS-B				RPS-C				RPS-D1				RPS-D2							
	QTY	SUPERVISORY CURRENT UNIT	TOTAL	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	TOTAL	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	TOTAL	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	TOTAL	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	TOTAL	ALARM CURRENT UNIT	TOTAL			
FACP/VECP	1	0.120000	0.120000	0.120000	0.120000																							
DIGITAL CELLULAR COMMUNICATOR	1	0.020000	0.020000	0.020000	0.020000																							
FIRE ALARM ANNUNCIATOR	1	0.020000	0.020000	0.020000	0.020000																							
REMOTE POWER SUPPLY						1	0.010000	0.010000	0.010000	0.010000	1	0.010000	0.010000	0.010000	0.010000	1	0.010000	0.010000	0.010000	0.010000	1	0.010000	0.010000	0.010000	0.010000			
CO DETECTOR	73	0.000000	0.000000	0.002000	0.146000	11	0.000000	0.000000	0.002000	0.022000	5	0.000000	0.000000	0.002000	0.010000	6	0.000000	0.000000	0.002000	0.010000	7	0.000000	0.000000	0.002000	0.014000			
DUCT DETECTOR	67	0.000750	0.005250	0.010000	0.670000																							
MONITOR MODULE	10	0.002400	0.002400	0.002400	0.002400																							
CONTROL RELAY MODULE	80	0.000375	0.030000	0.006500	0.520000																							
RELAY MODULE	8	0.000375	0.003000	0.006500	0.052000																							
TOTAL			0.246 A	1.560 A	1.560 A			0.010 A	0.032 A	0.032 A			0.010 A	0.016 A	0.020 A	0.020 A			0.010 A	0.010 A	0.022 A	0.022 A			0.010 A	0.010 A	0.024 A	0.024 A
			x 24 H	x 0.25 H	x 0.25 H			x 24 H	x 0.25 H	x 0.25 H			x 24 H	x 0.25 H	x 0.25 H	x 24 H	x 0.25 H			x 24 H	x 0.25 H	x 0.25 H	x 0.25 H			x 24 H	x 0.25 H	x 0.25 H
			5.896 AH	0.390 AH	0.390 AH			0.240 AH	0.008 AH	0.008 AH			0.240 AH	0.005 AH	0.005 AH	0.240 AH	0.006 AH			0.240 AH	0.006 AH	0.006 AH	0.006 AH			0.240 AH	0.006 AH	0.006 AH
				5.896 AH, STANDBY				0.240 AH, STANDBY					0.240 AH, STANDBY			0.240 AH, STANDBY			0.240 AH, STANDBY			0.006 AH, ALARM	0.006 AH, ALARM			0.240 AH, STANDBY		0.240 AH, STANDBY
				0.390 AH, ALARM				0.008 AH, ALARM					0.005 AH, ALARM			0.006 AH, ALARM			0.006 AH, ALARM			0.006 AH, ALARM	0.006 AH, ALARM			0.006 AH, ALARM		0.006 AH, ALARM
				6.286 AH, TOTAL				0.248 AH, TOTAL					0.245 AH, TOTAL			0.246 AH, TOTAL			0.246 AH, TOTAL			0.246 AH, TOTAL	0.246 AH, TOTAL			0.246 AH, TOTAL		0.246 AH, TOTAL
				26 AH, BATTERY CAPACITY				7 AH, BATTERY CAPACITY					7 AH, BATTERY CAPACITY			7 AH, BATTERY CAPACITY			7 AH, BATTERY CAPACITY			7 AH, BATTERY CAPACITY	7 AH, BATTERY CAPACITY			7 AH, BATTERY CAPACITY		7 AH, BATTERY CAPACITY
				19.714 AH, SPARE CAPACITY				6.752 AH, SPARE CAPACITY					6.755 AH, SPARE CAPACITY			6.755 AH, SPARE CAPACITY			6.755 AH, SPARE CAPACITY			6.754 AH, SPARE CAPACITY	6.754 AH, SPARE CAPACITY			6.754 AH, SPARE CAPACITY		6.754 AH, SPARE CAPACITY

RPS-E1				RPS-E2				RPS-F1				RPS-F2				RPS-H				RPS-J				
QTY	SUPERVISORY CURRENT UNIT	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	ALARM CURRENT UNIT	TOTAL	QTY	SUPERVISORY CURRENT UNIT	ALARM CURRENT UNIT	TOTAL	
1	0.010000	0.010000	0.010000	1	0.010000	0.010000	0.010000	1	0.010000	0.010000	0.010000	1	0.010000	0.010000	0.010000	1	0.010000	0.010000	0.010000	17	0.000000	0.000000	0.002000	0.034000
	0.010 A	0.010 A	0.010 A		0.010 A	0.010 A	0.010 A		0.010 A	0.010 A	0.010 A		0.010 A	0.044 A	0.044 A		0.010 A	0.010 A	0.050 A					
	x 24 H	x 0.25 H	x 0.25 H		x 24 H	x 0.25 H	x 0.25 H		x 24 H	x 0.25 H	x 0.25 H		x 24 H	x 0.25 H	x 0.11 H		x 24 H	x 0.25 H	x 0.13 H					
	0.240 AH, STANDBY	0.003 AH, ALARM	0.243 AH, TOTAL		0.240 AH, STANDBY	0.003 AH, ALARM	0.243 AH, TOTAL		0.240 AH, STANDBY	0.003 AH, ALARM	0.243 AH, TOTAL		0.240 AH, STANDBY	0.003 AH, ALARM	0.243 AH, TOTAL		0.240 AH, STANDBY	0.011 AH, ALARM	0.251 AH, TOTAL					
	7 AH, BATTERY CAPACITY		6.758 AH, SPARE CAPACITY		7 AH, BATTERY CAPACITY		6.758 AH, SPARE CAPACITY		7 AH, BATTERY CAPACITY		6.758 AH, SPARE CAPACITY		7 AH, BATTERY CAPACITY		6.749 AH, SPARE CAPACITY		7 AH, BATTERY CAPACITY		6.748 AH, SPARE CAPACITY					



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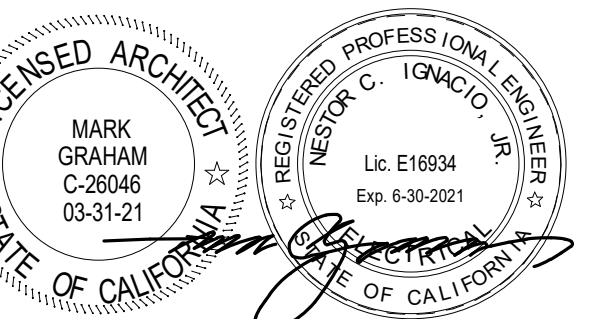
1	08/25/20	Addendum 1
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: Issue Date	SCALE:
PROJECT NUMBER: Project Number	

CALCULATIONS AND RISER DIAGRAMS

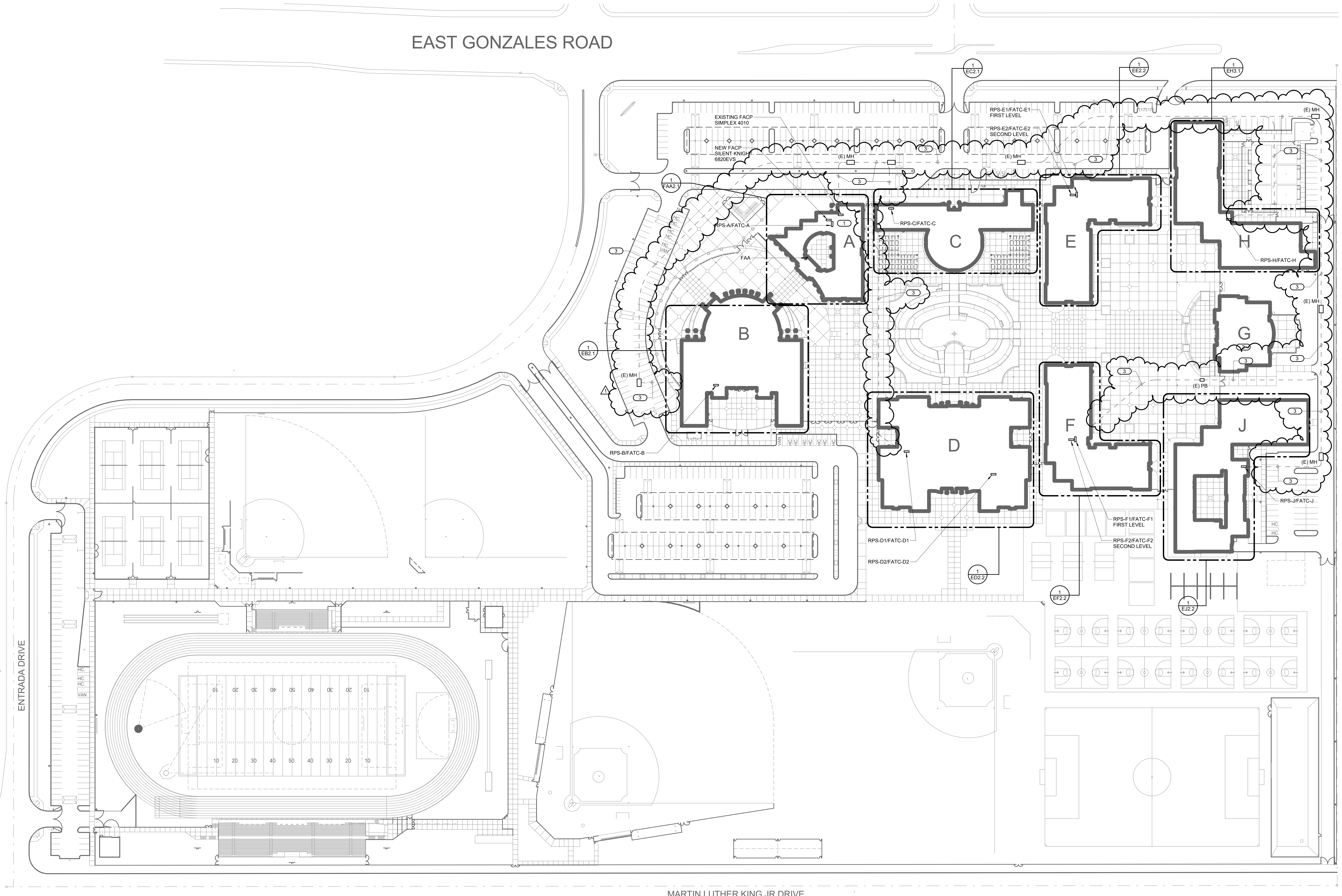
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KEYED NOTES

1. PROVIDE ALL THE REQUIRED MODULES/COMPONENTS AND PROGRAMMING/NETWORKING FOR INNERCONNECT (OR CROSS-TRIP) BETWEEN THE EXISTING AND NEW FIRE ALARM CONTROL PANELS (FACP).
2. BUILDING NOT PART OF THIS PERMIT. EXISTING CONDUIT TO NEW FACP VIA FATC. PULL EXISTING FIRE ALARM WIRES/CABLES. REINSTALL THE EXISTING FA WIRES/CABLES INCLUDING THE NEW FA WIRES/CABLES.
- 3.



1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN:	Author	CHECKED:	Checker
DATE:	Issue Date	SCALE:	1" = 60'-0"
PROJECT NUMBER:	Project Number		

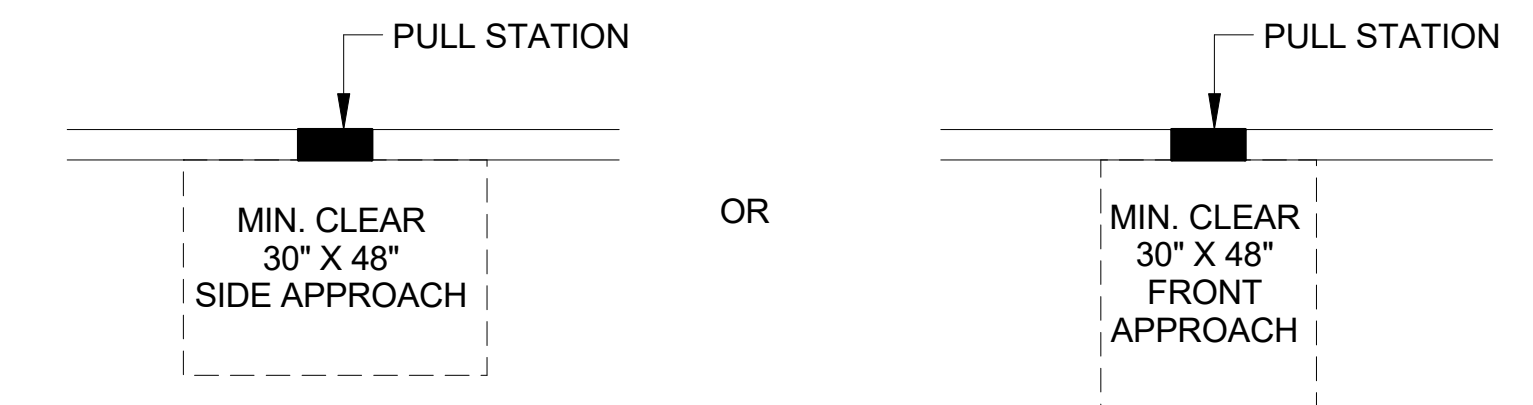
SITE PLAN

DRAWING NUMBER: **FA1.1**

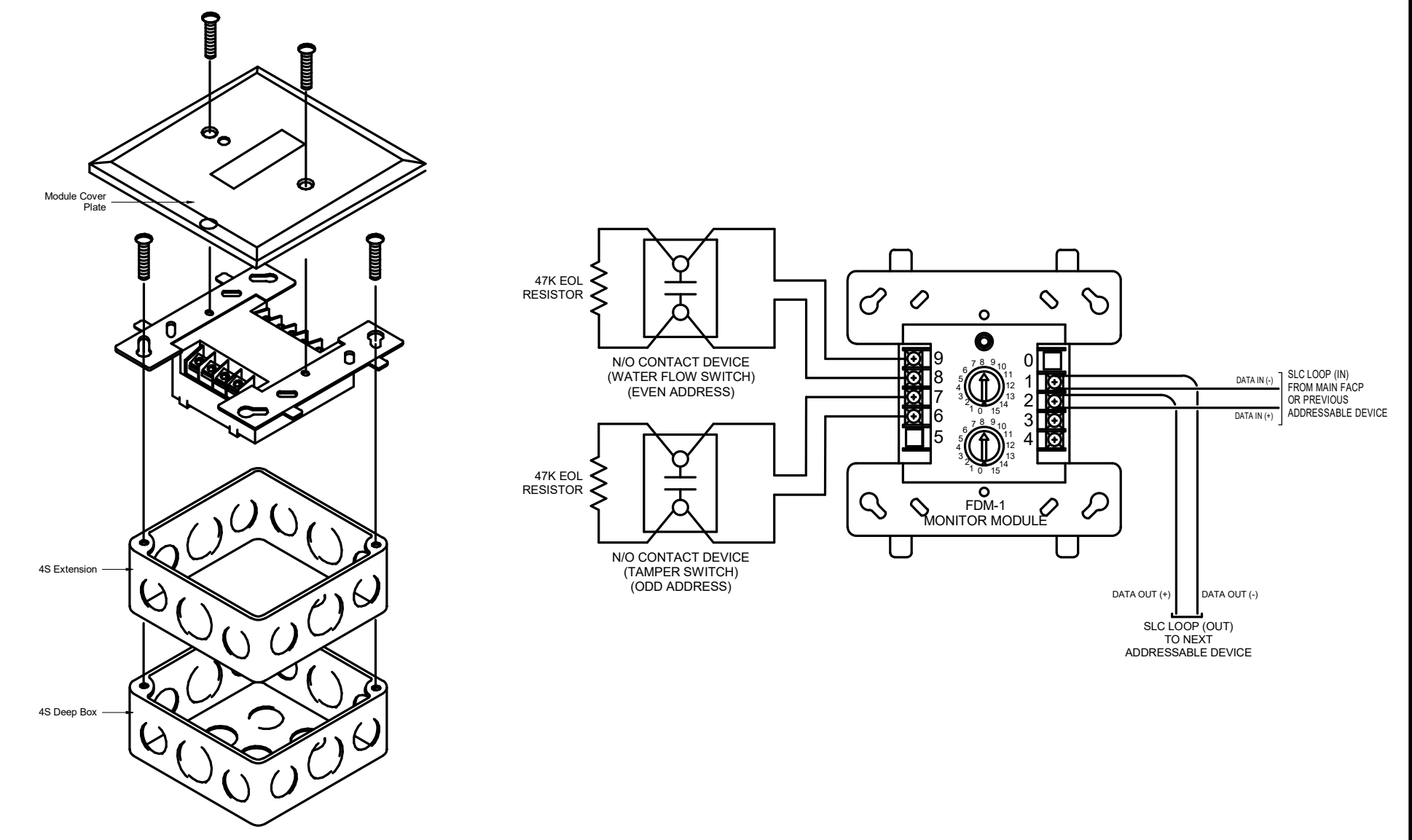
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REVISIONS			

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PROJECT NUMBER:	Project Number		

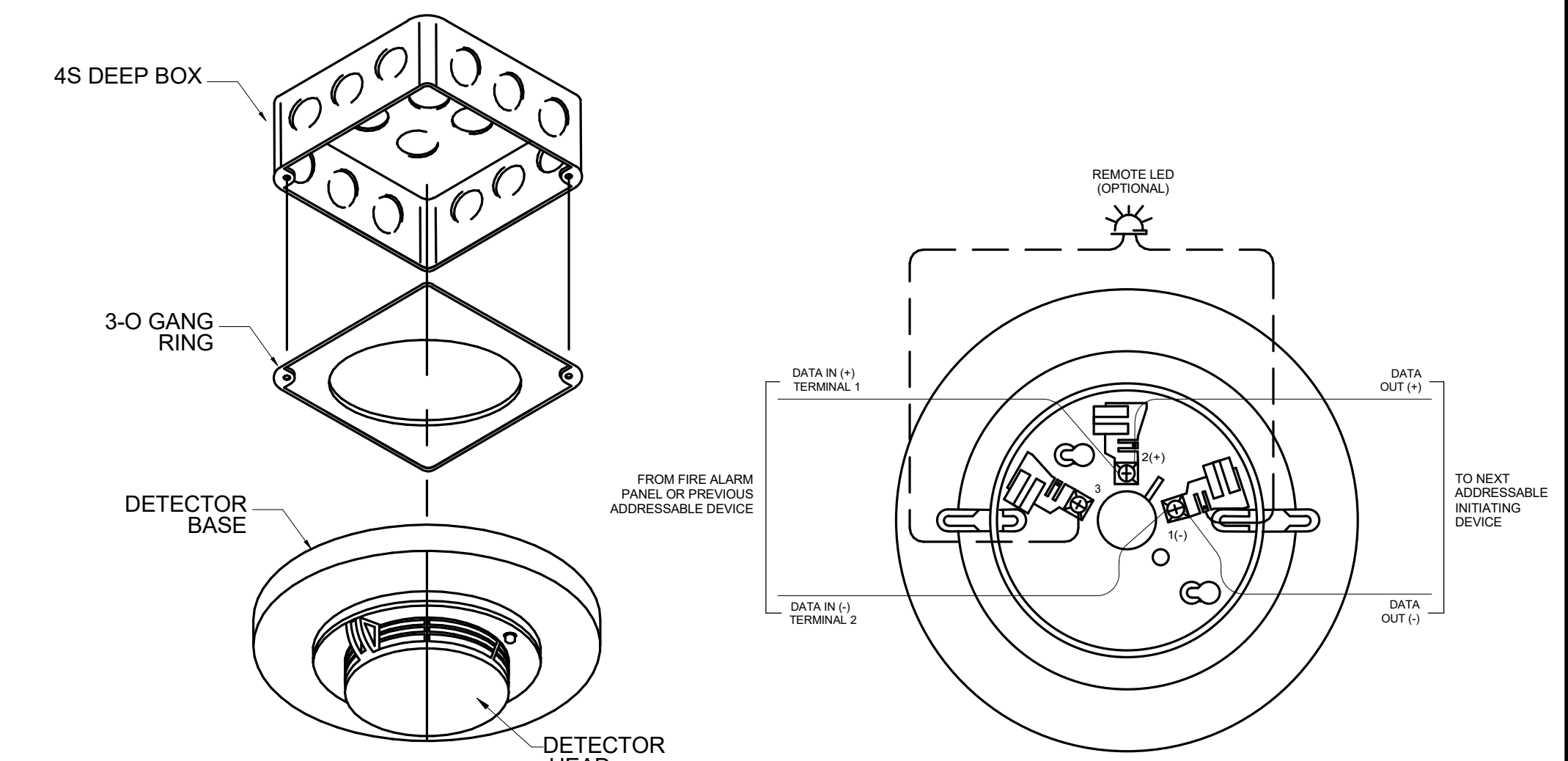
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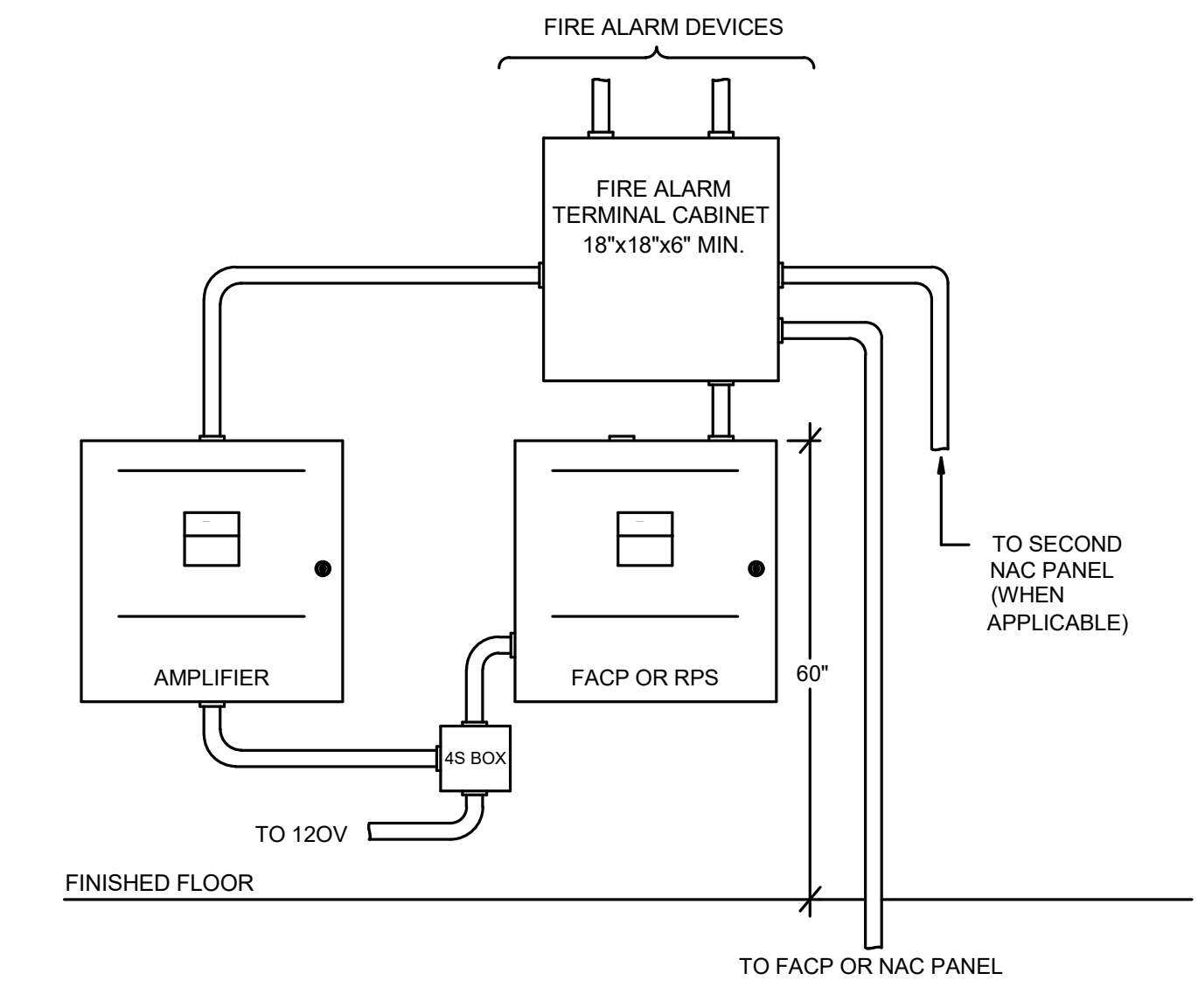
CLEAR SPACE REQUIREMENTS AT FIRE ALARM PULL STATION NTS 1



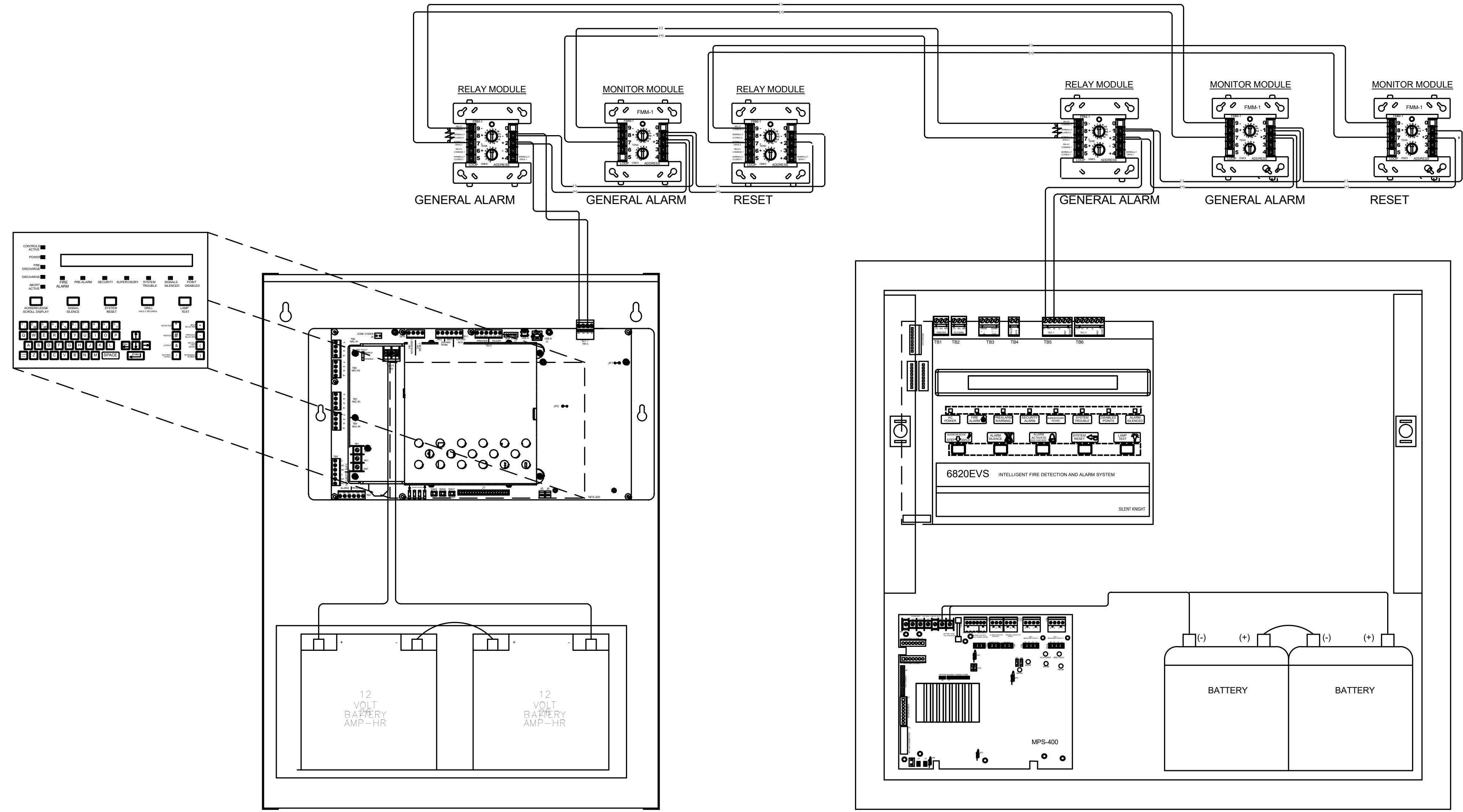
MONITOR MODULE WIRING DETAIL NTS 2



SMOKE/HEAT DETECTOR BASE WIRING DETAIL NTS 3

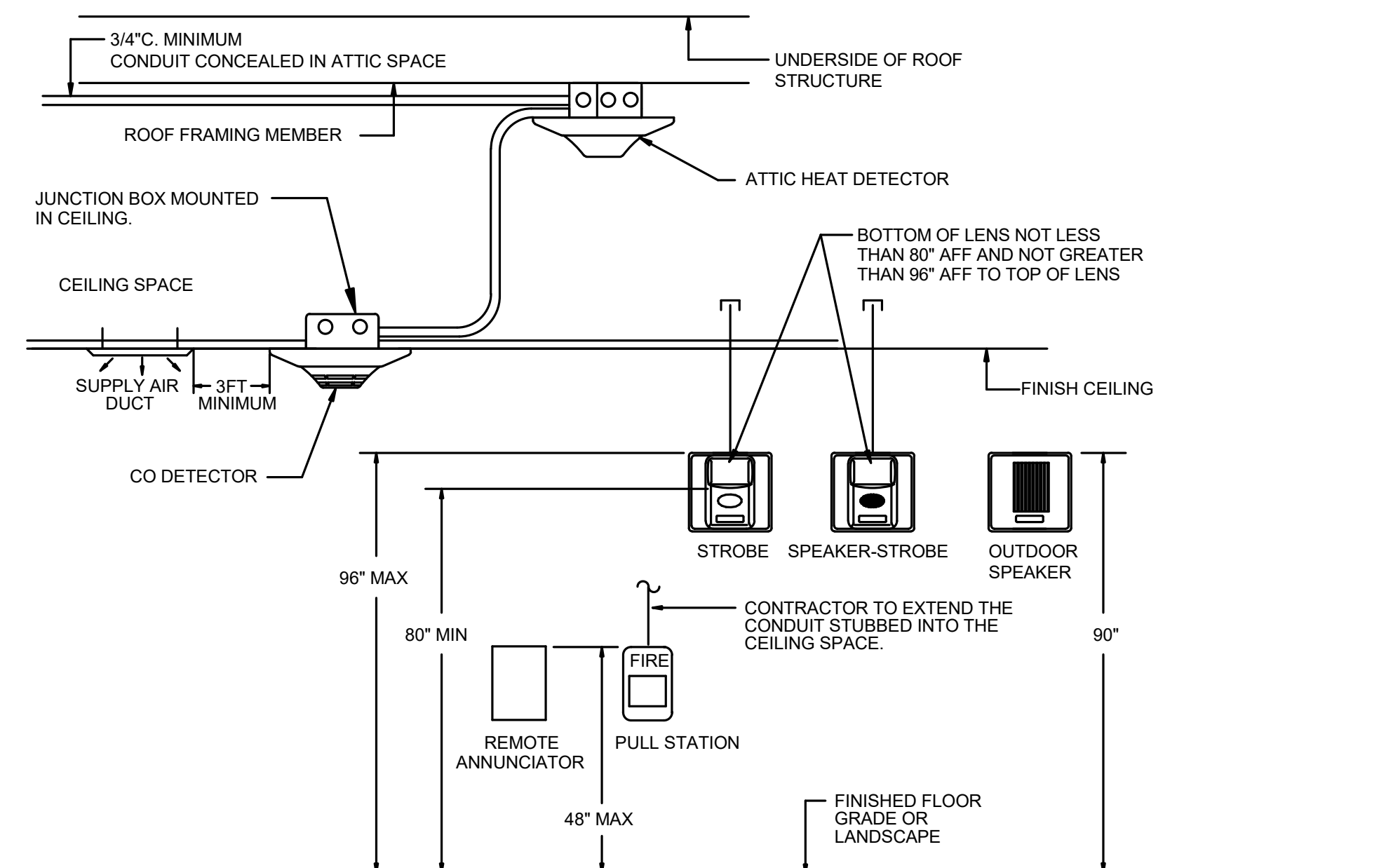


TYPICAL POWER SUPPLY LAYOUT NTS 4

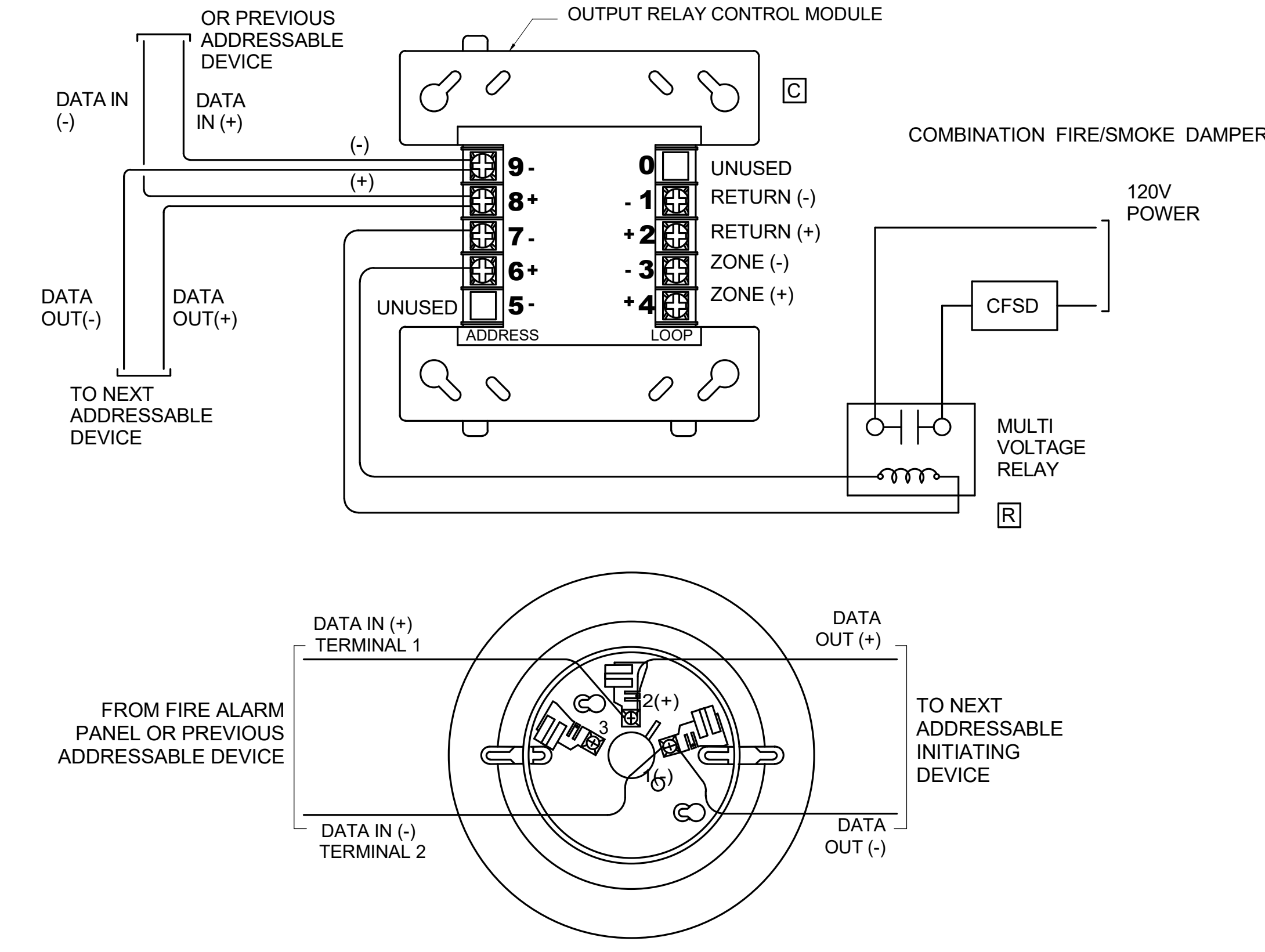


EXISTING FACP (SIMPLEX) and **NEW FACP (SILENT KNIGHT)**

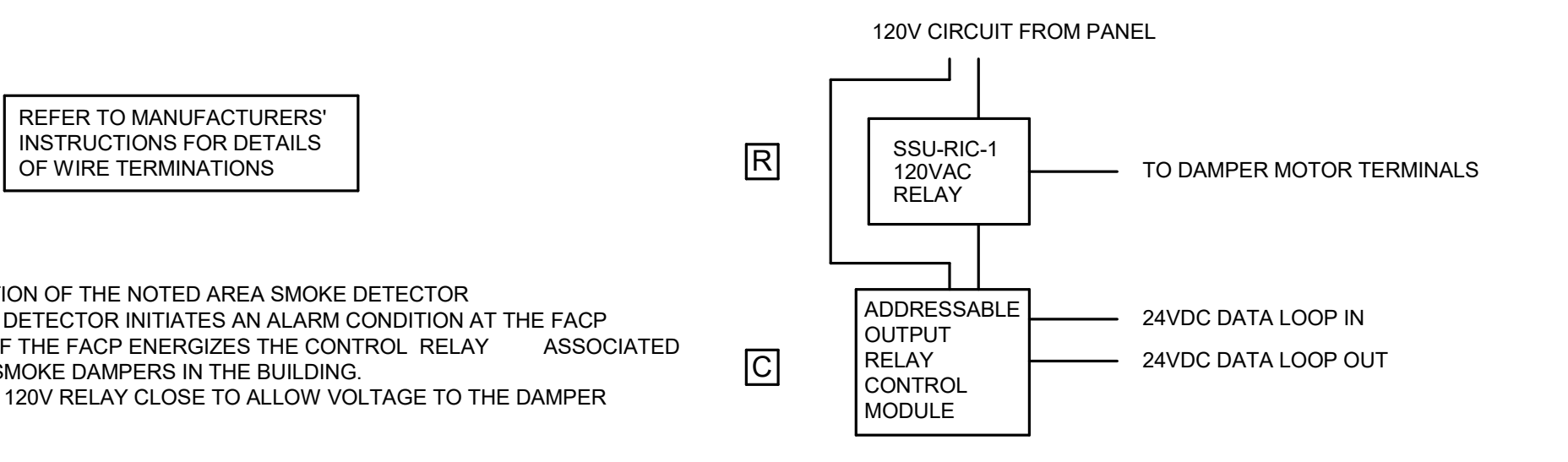
INTERCONNECTING BETWEEN FIRE ALARM CONTROL PANEL DETAIL NTS 5



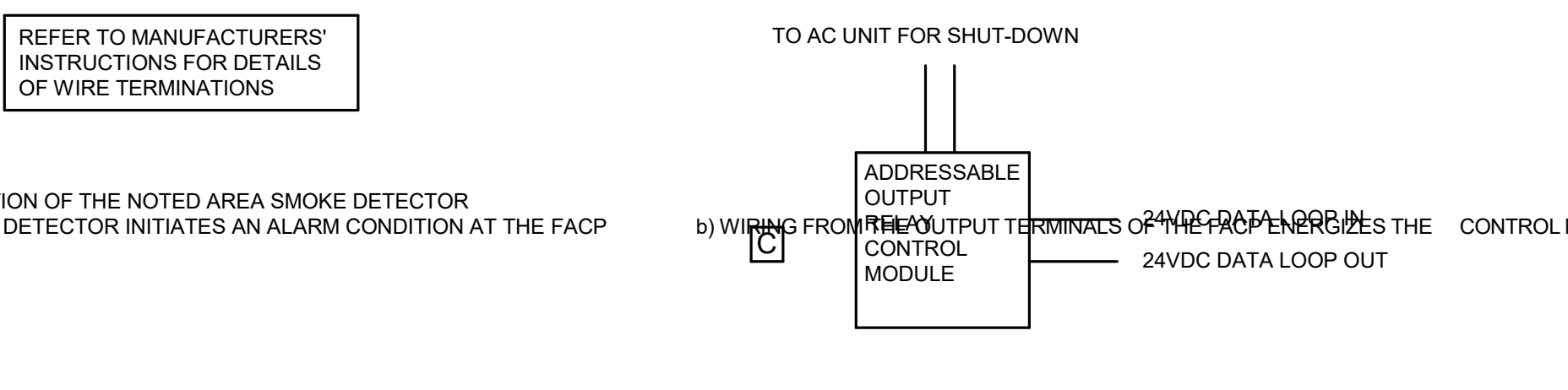
FIRE ALARM DEVICE ELEVATION NTS 7



TYPICAL FIRE ALARM DEVICE WIRING DETAIL NTS 6

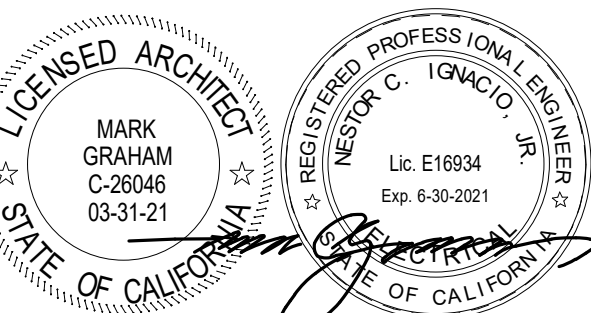


FIRE-SMOKE DAMPER OPERATION NTS 8



HVAC SHUTDOWN NTS 9

03/20/2023 10:52 AM
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1	08/25/20	Addendum 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

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DATE: Issue Date
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PROJECT NUMBER: Project Number

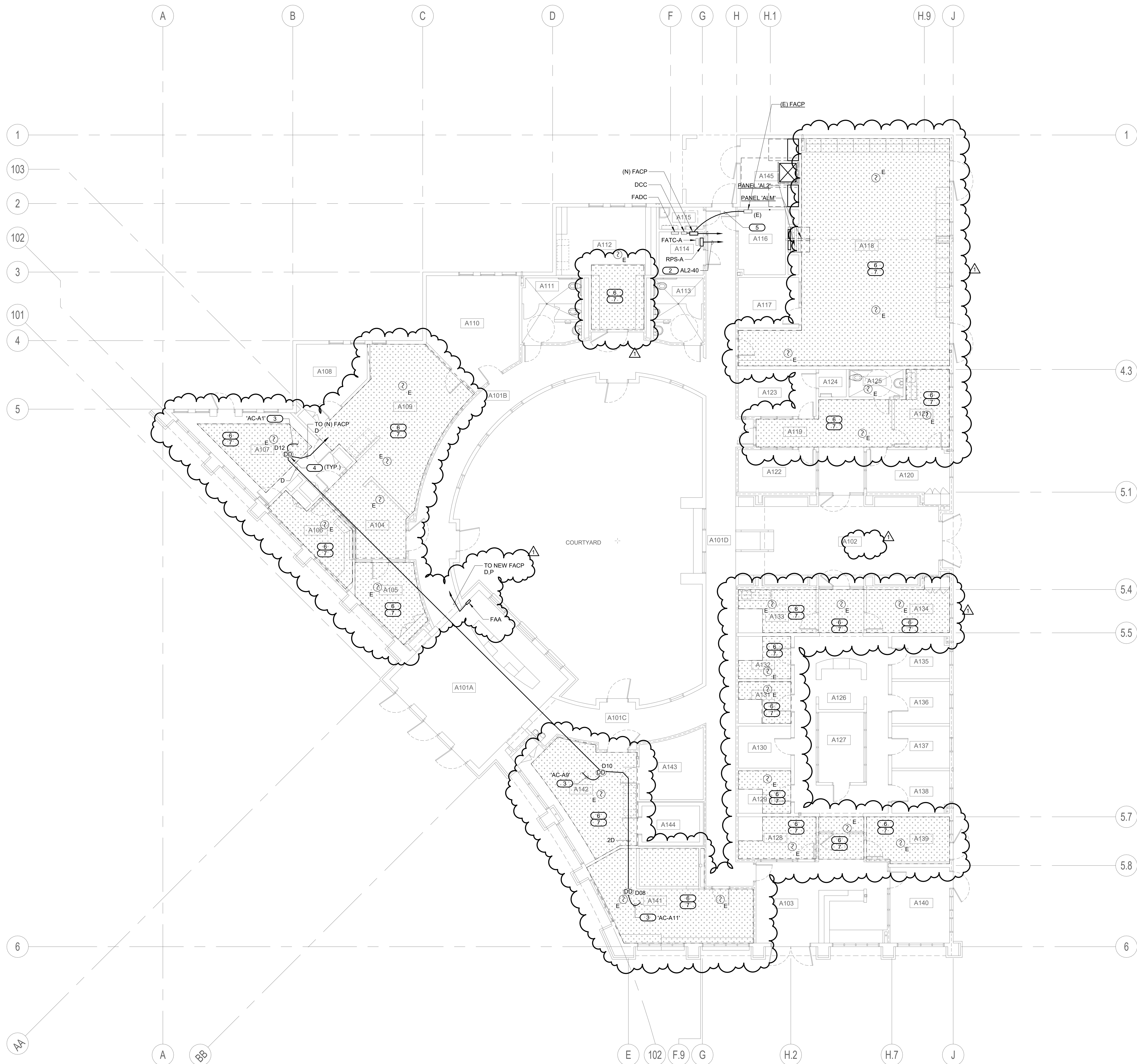
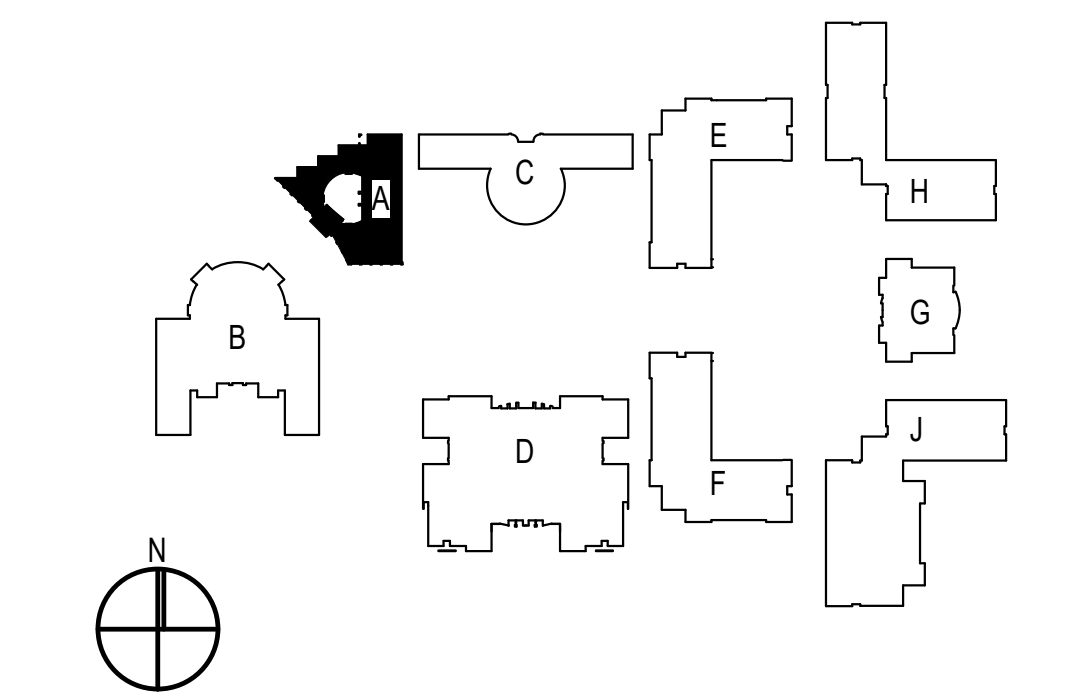
BUILDING A REMODEL FLOOR PLAN

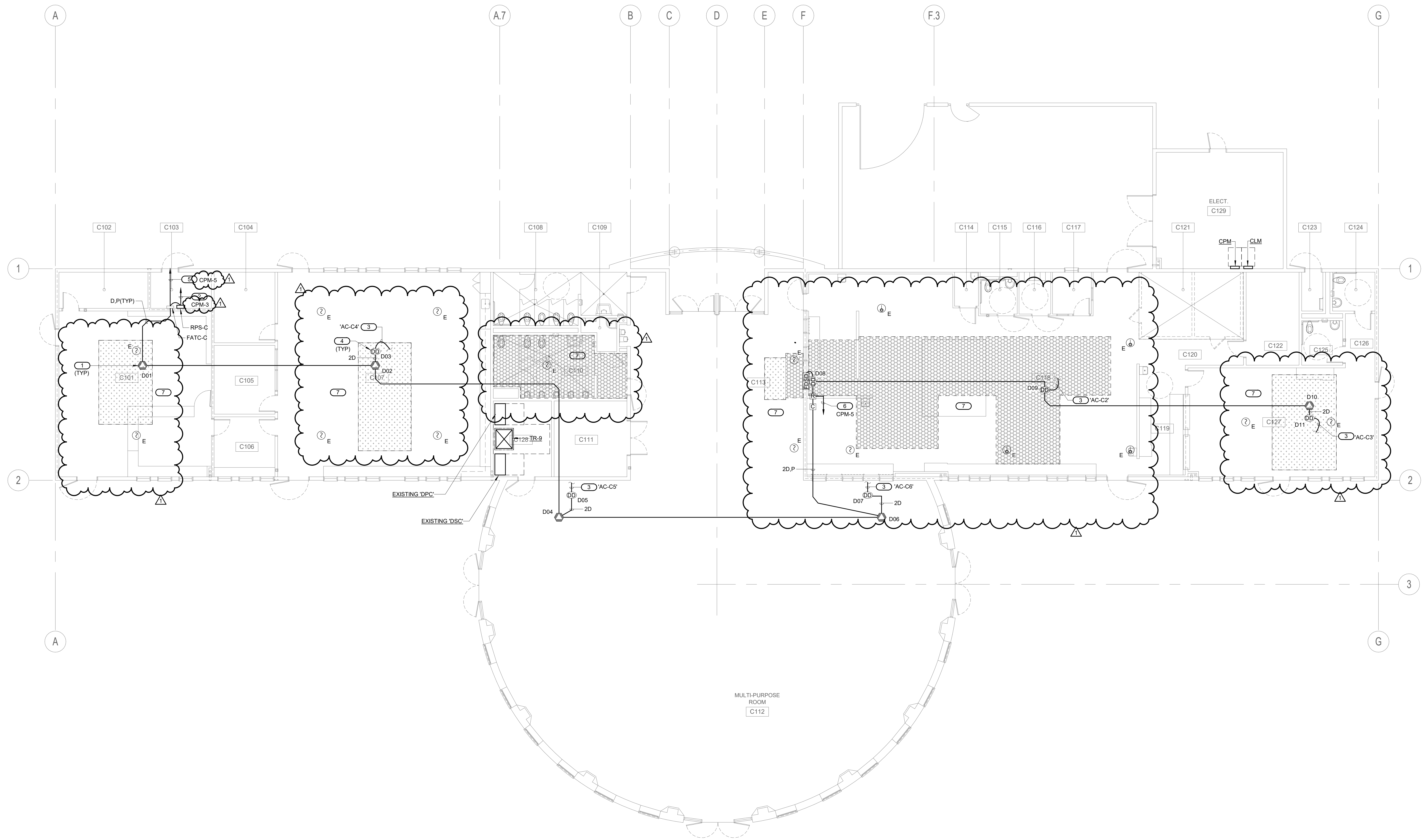
DRAWING NUMBER: **FAA2.1**

KEYED NOTES

- NOT USED.
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT 19."
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE WIRE AND SHOW LOCATION IN THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
- PROVIDE ALL THE REQUIRED MODULES/COMPONENTS AND PROGRAMMING NETWORKING FOR INNERCONNECT (OR CROSS-TRIP) BETWEEN THE EXISTING AND NEW FIRE ALARM CONTROL PANELS.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL-REINSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (1-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON-AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.

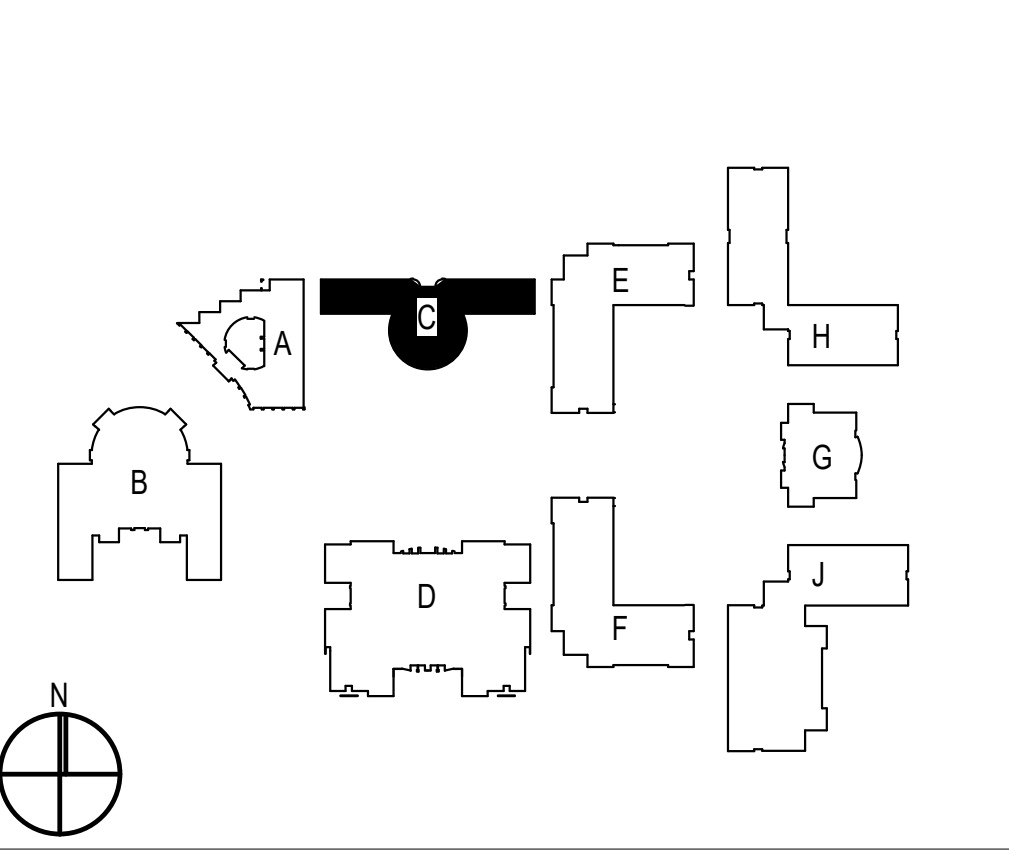
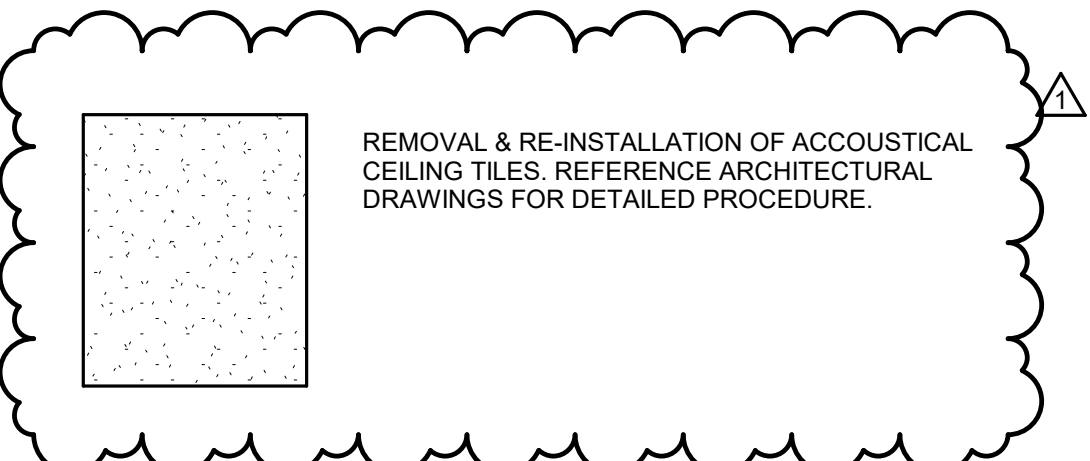




BUILDING C REMODEL FIRST FLOOR PLAN - FIRE ALARM 1/8" = 1'-0" 1

KEYED NOTES

- PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
- TO (M) FACP LOCATED IN THE ADMIN BUILDING VIA FACP.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA RELAY MODULE FOR DAMPER CLOSURE. LABEL RED TO CIRCUIT ID.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.



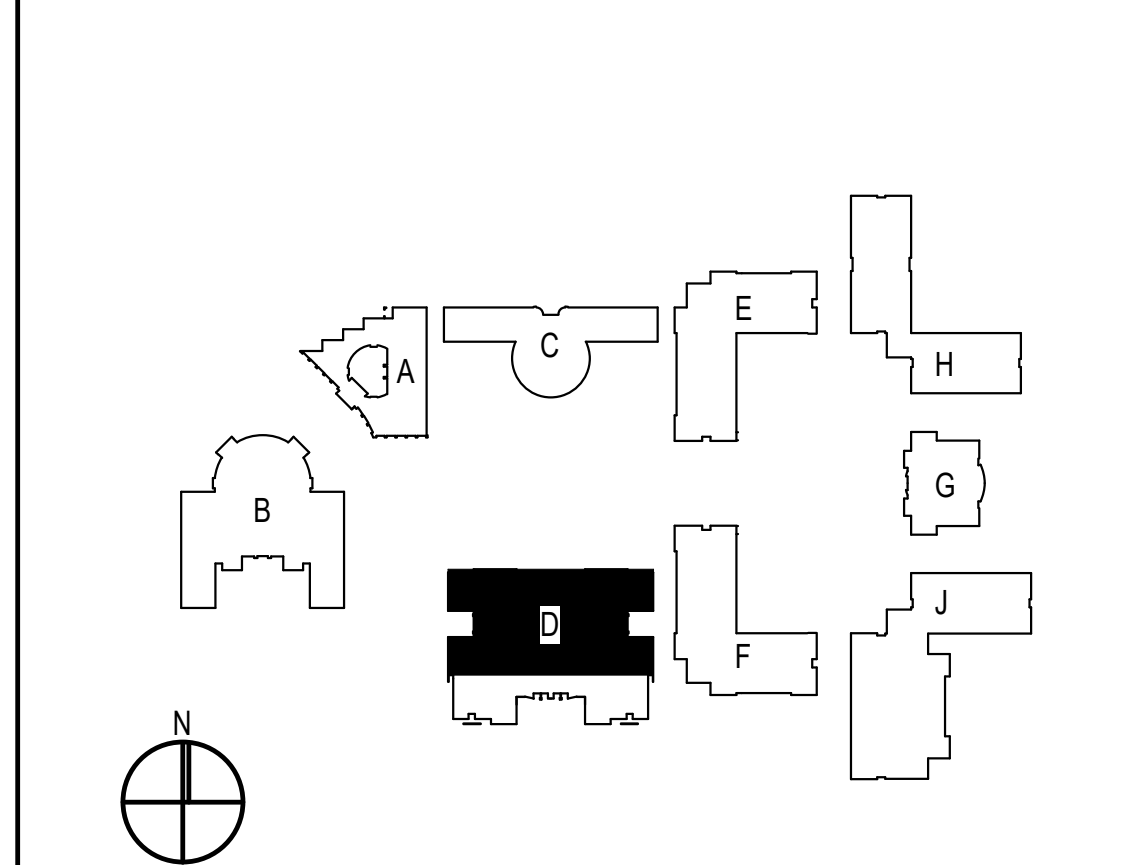
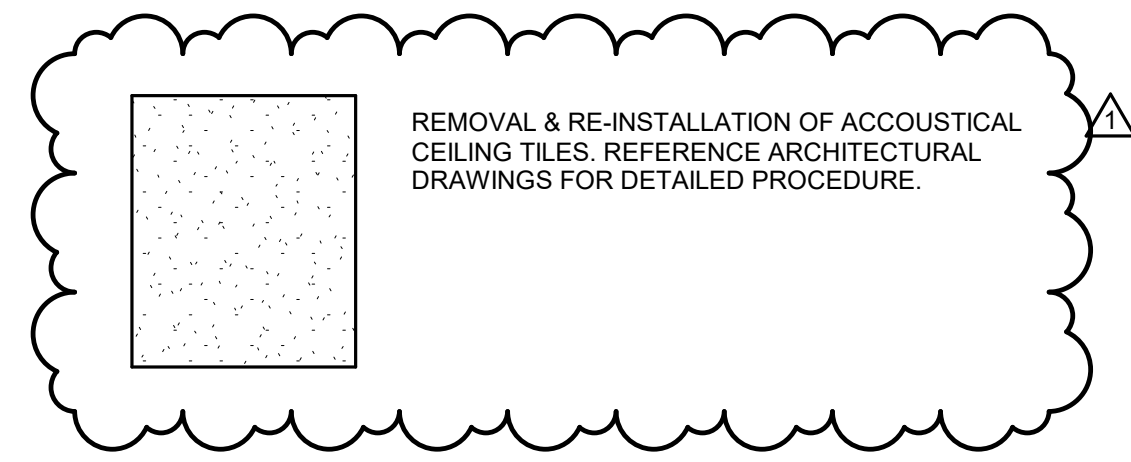
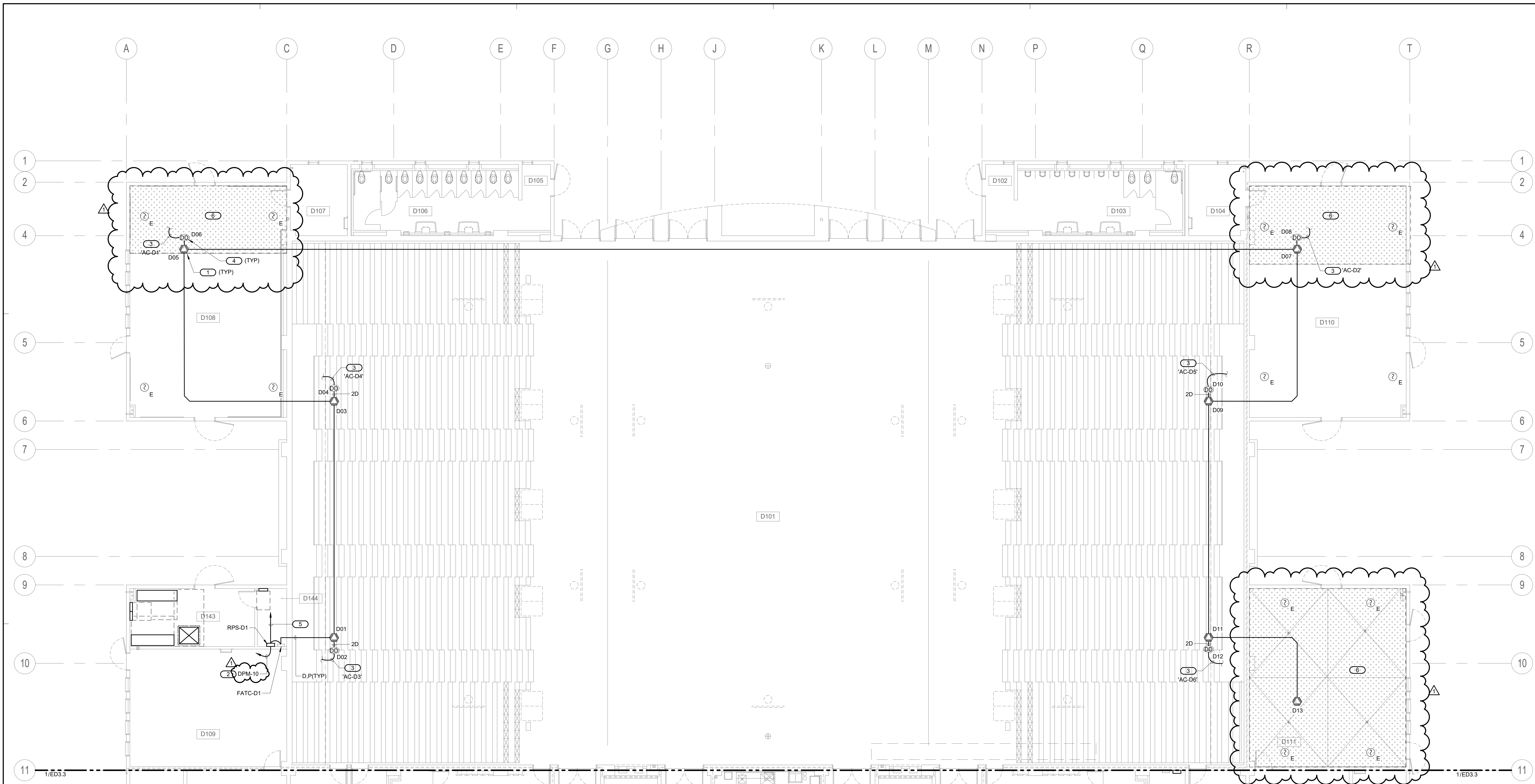
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**BUILDING C REMODEL
FIRST FLOOR PLAN**

DRAWING NUMBER: **FAC2.1**

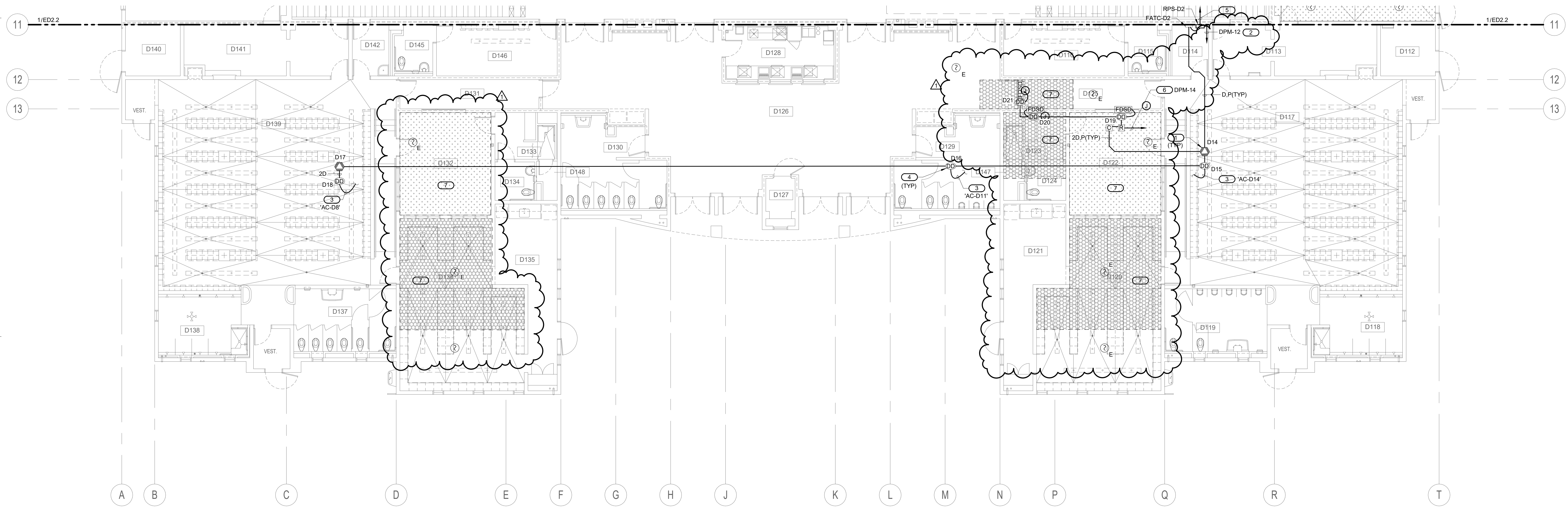
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- KEYED NOTES**
- PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
 - TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING FIRE ALARM TO CIRCUIT ID.
 - TO HVAC UNIT FOR SHUT-DOWN.
 - REMOVE AND RE-INSTALL FIRE ALARM DEVICES ON THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
 - REMOVE FIRE ALARM DEVICES IN THE ADMINISTRATION AREA.
 - FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.

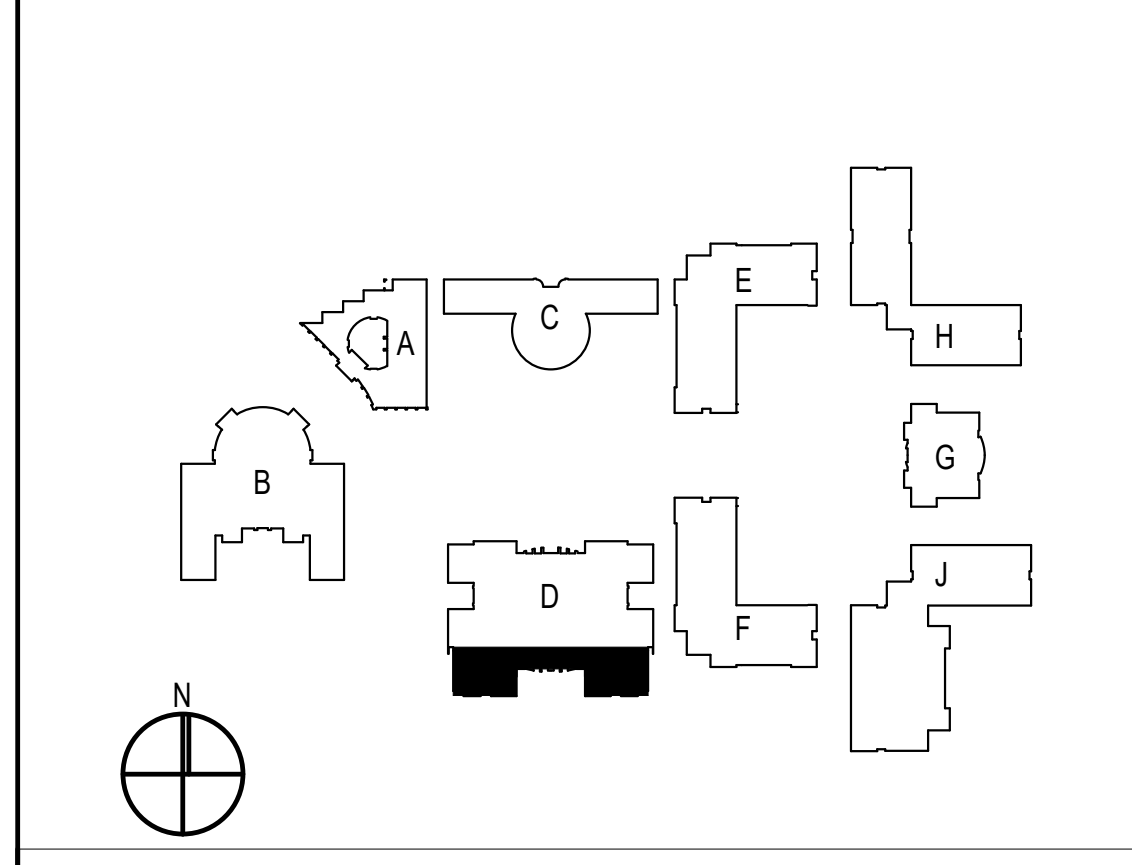
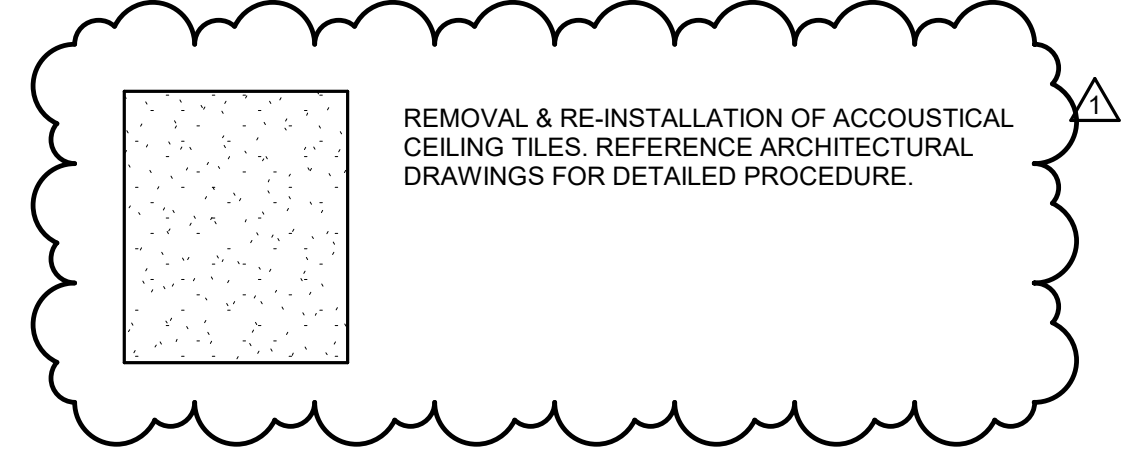
BUILDING D REMODEL FLOOR PLAN - AREA 1 - FA 1/8" = 1'-0" 1

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PROJECT NUMBER: Project Number			
BUILDING D REMODEL FLOOR PLAN - AREA 1			
DRAWING NUMBER: FAD2.1			



KEYED NOTES

1. PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
2. TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
3. TO HVAC UNIT FOR SHUT-DOWN.
4. REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
5. (N) FACP LOCATED IN THE ADMIN BUILDING W/ FATC.
6. RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA RELAY MODULE FOR DAMPER CLOSURE. LABEL RED TO CIRCUIT ID.
7. FIRE ALARM DEVICE AFFECTED DURING REMOVAL-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.



BUILDING D REMODEL FLOOR PLAN - AREA 2 - FA 1/8" = 1'-0" 1

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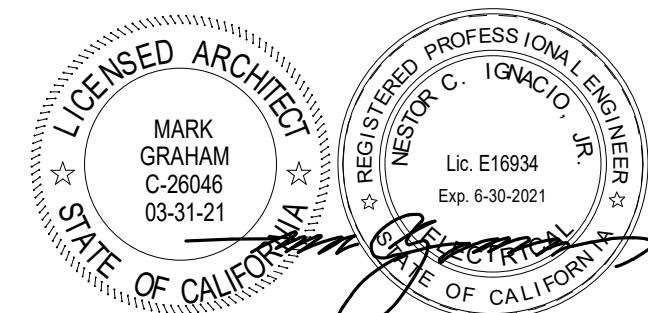
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**BUILDING D REMODEL
FLOOR PLAN - AREA 2**

DRAWING NUMBER: **FAD2.2**

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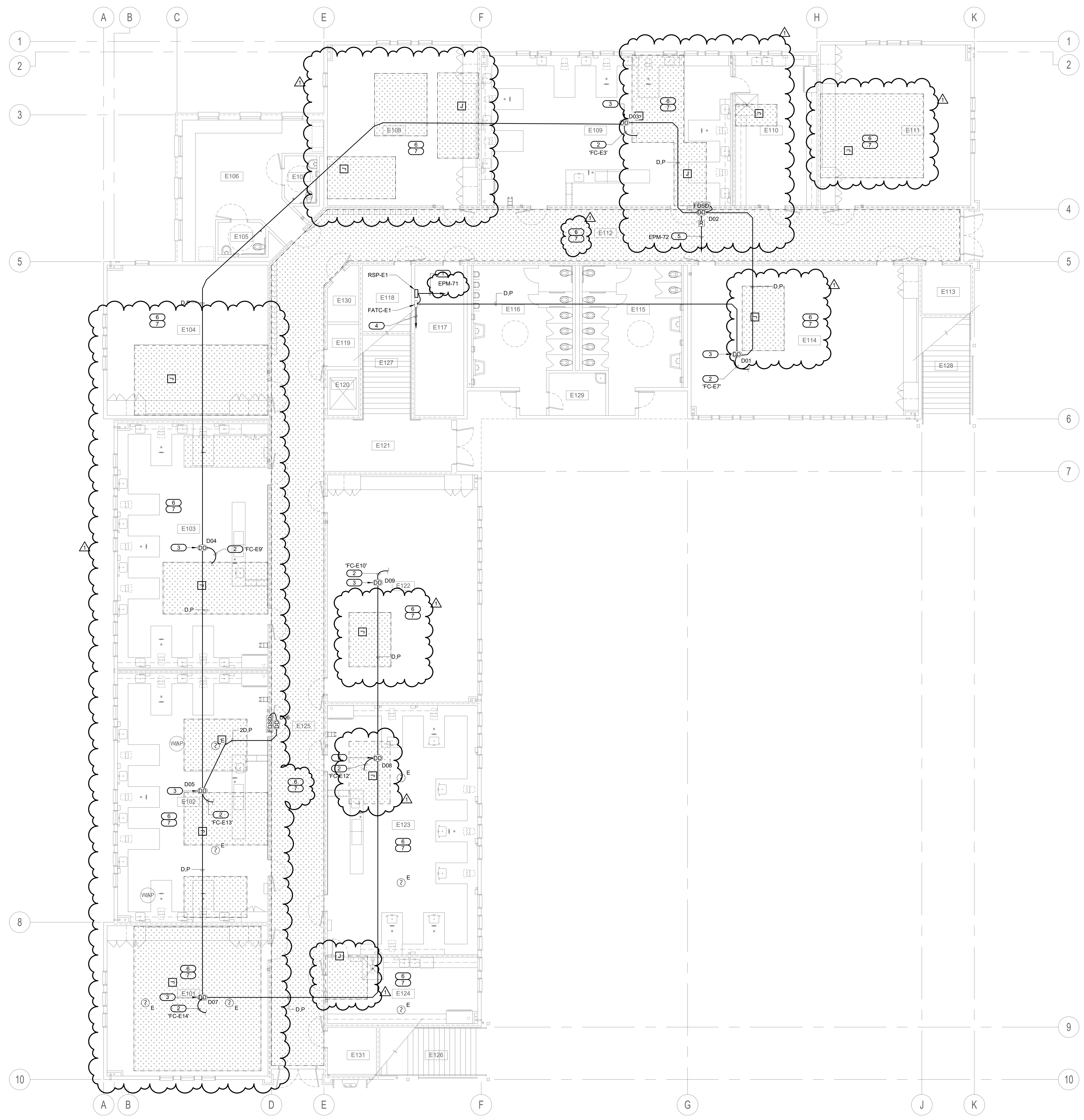
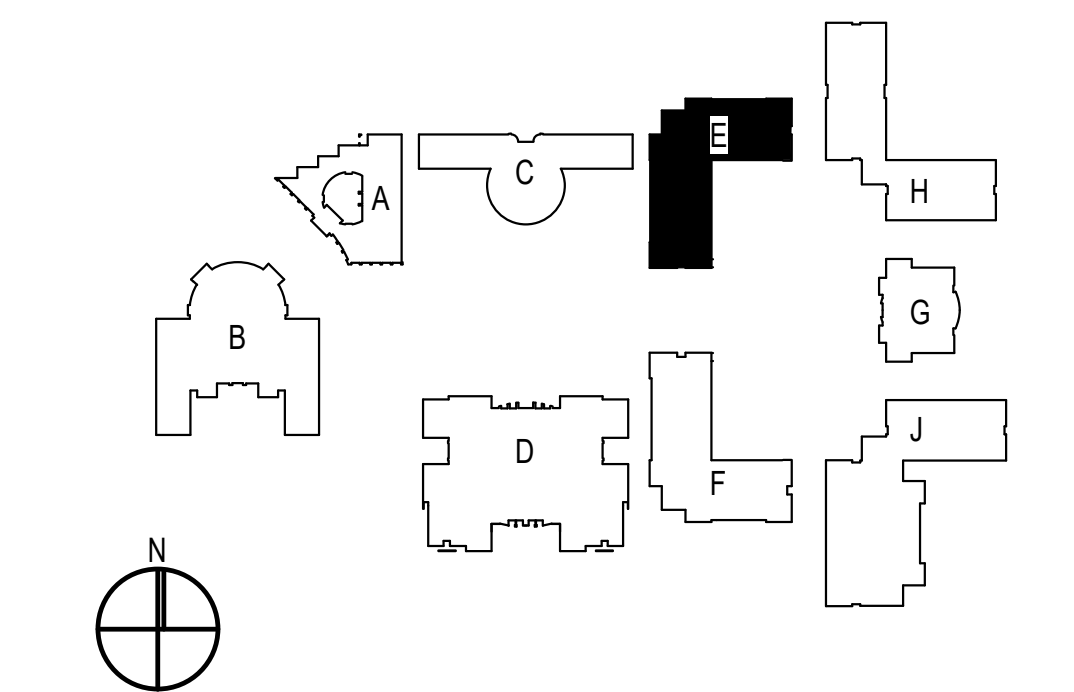
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KEYED NOTES

- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM" TO CIRCUIT ID.
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND RE-PLACE (AND AS SHOWN) LOCATIONS IN THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
- NO GAS BURNING HVAC UNIT IN THIS BUILDING. CO DETECTOR NOT REQUIRED.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA RELAY IN SUPPLY DUCT FOR CONTROL PANEL PER TO CONTRACTOR.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING:
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING(COVER)) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON-AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

NO GAS BURNING HVAC UNIT IN THIS BUILDING.
CO DETECTOR NOT REQUIRED.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1
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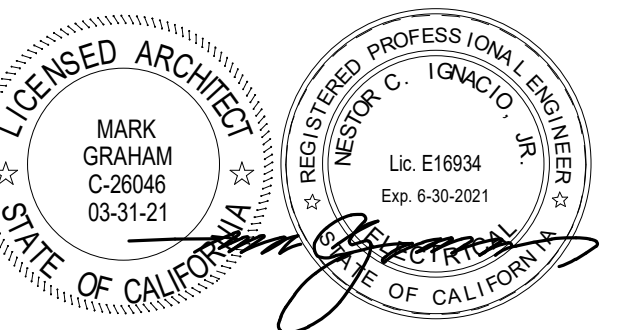
**BUILDING E REMODEL
FIRST FLOOR PLAN**

DRAWING NUMBER: **FAE2.1**



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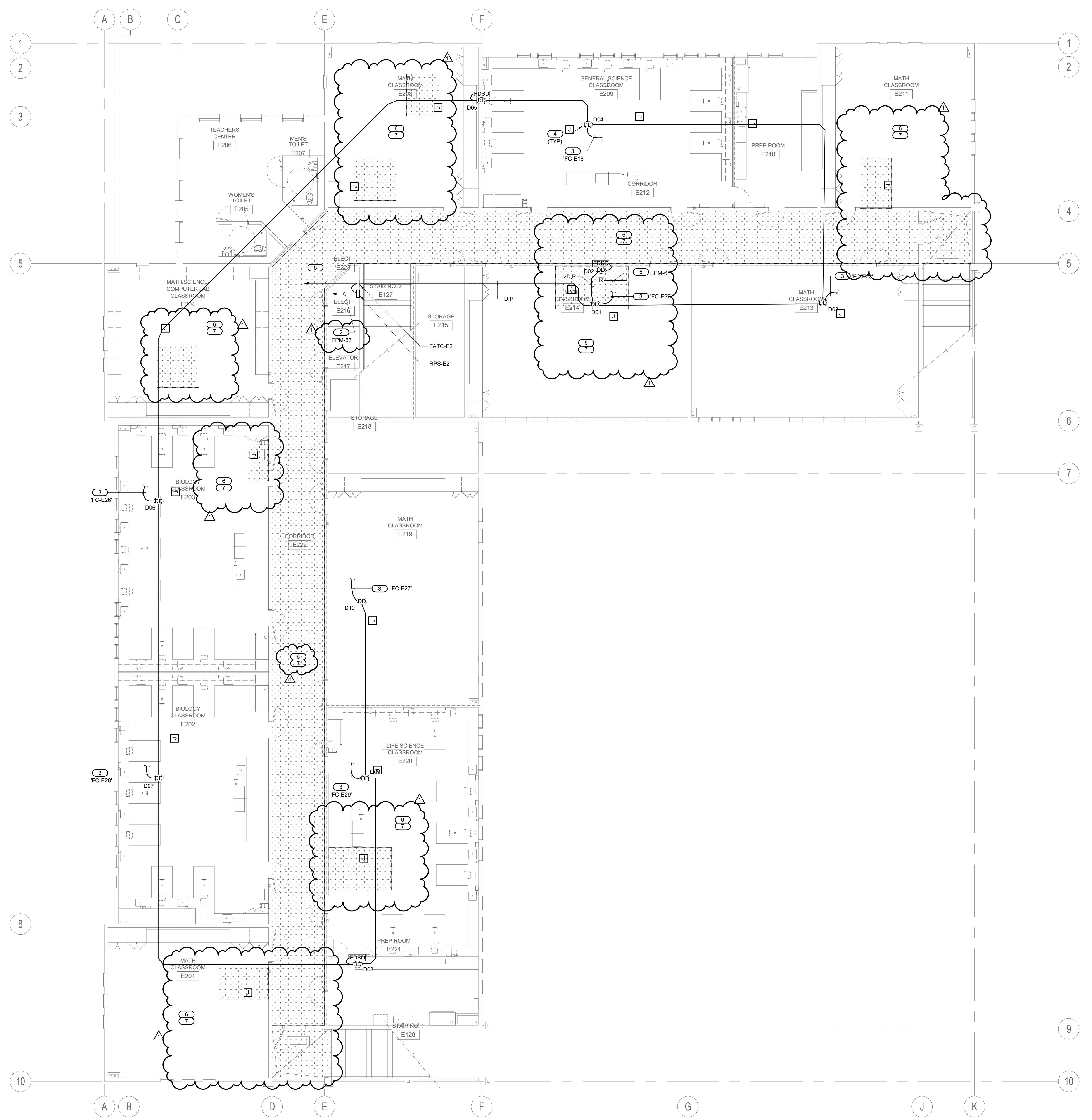
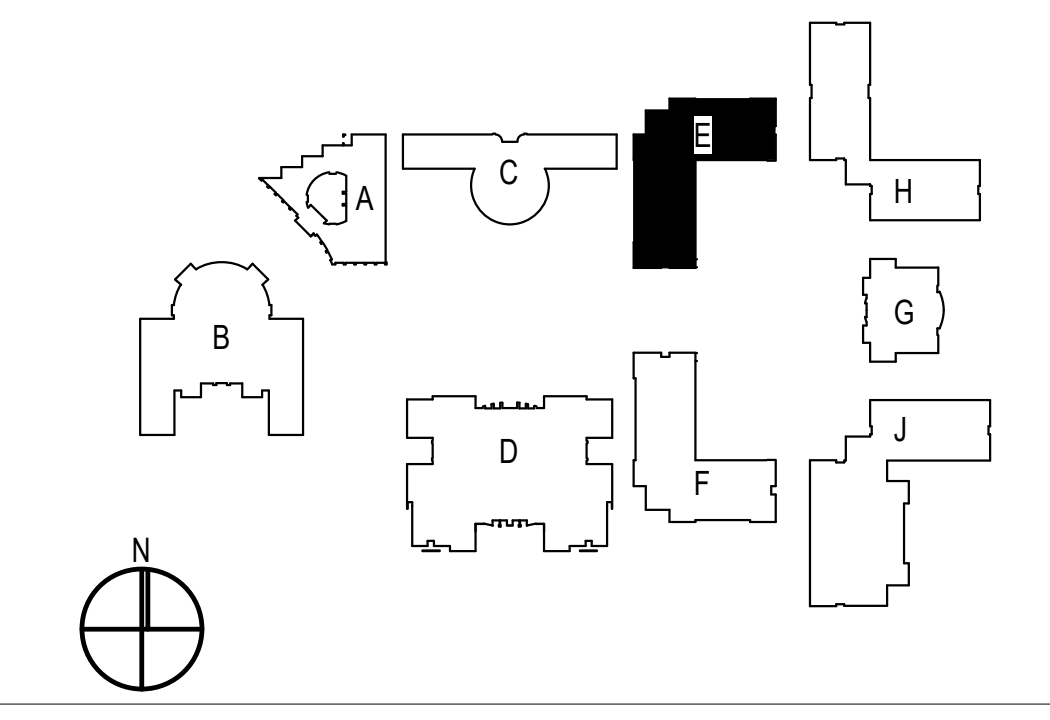
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KEYED NOTES

- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM" TO CIRCUIT ID.
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND RE-PLACE (AND AS SHOWN) LOCATING THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
- NO GAS BURNING HVAC UNIT IN THIS BUILDING. CO DETECTOR NOT REQUIRED.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA RING MAIN FOR WALKER IN CORRIDOR. LABEL RELOCATED CONDUIT.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (1-BAR HANGER, 4S BOX, & 4S RING(COVER)) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON-AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

NO GAS BURNING HVAC UNIT IN THIS BUILDING.
CO DETECTOR NOT REQUIRED.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



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**BUILDING E REMODEL
SECOND FLOOR PLAN**

DRAWING NUMBER: **FAE2.2**

1	08/25/20	Addendum 1

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**BUILDING F REMODEL
FIRST FLOOR PLAN**

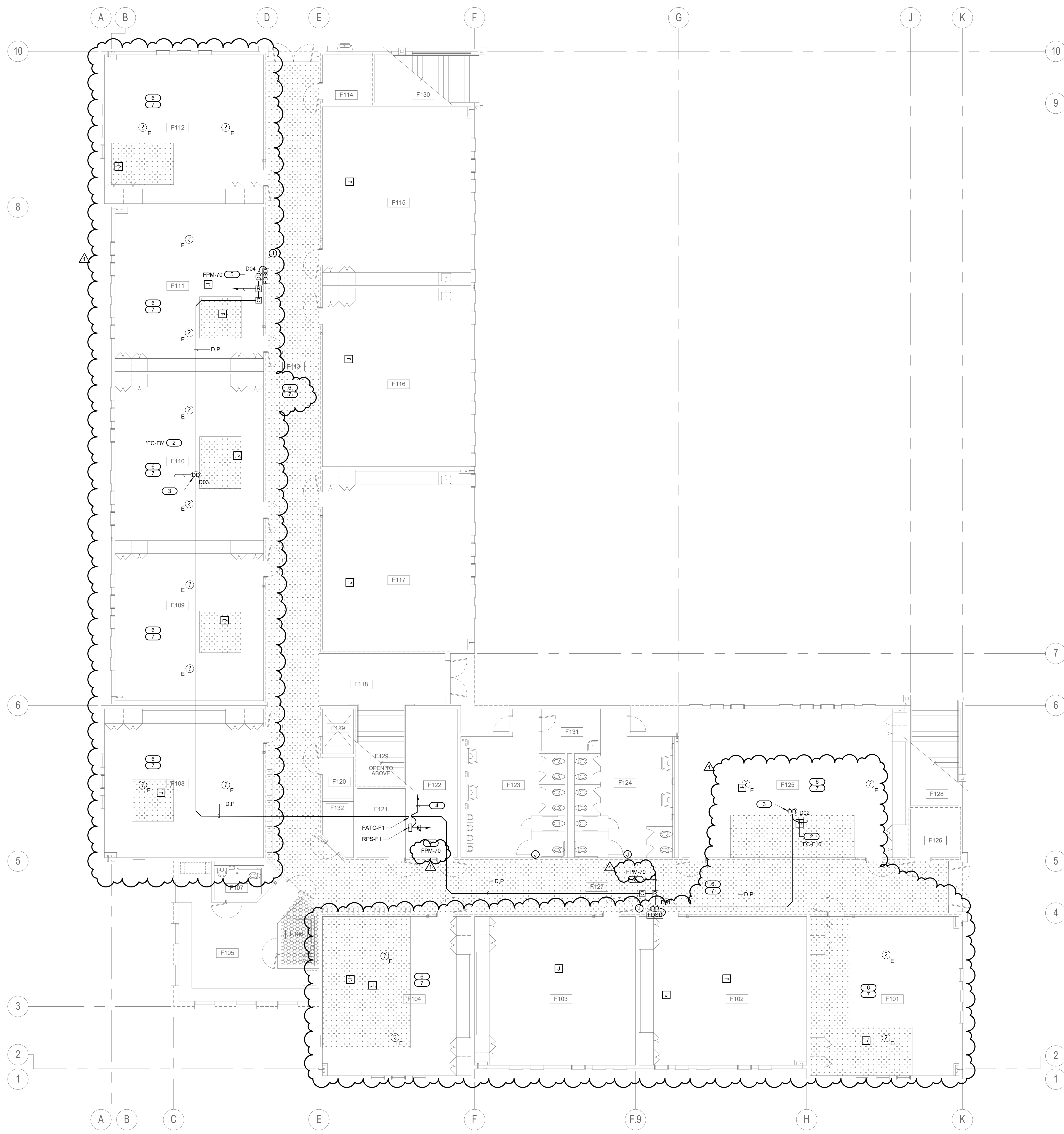
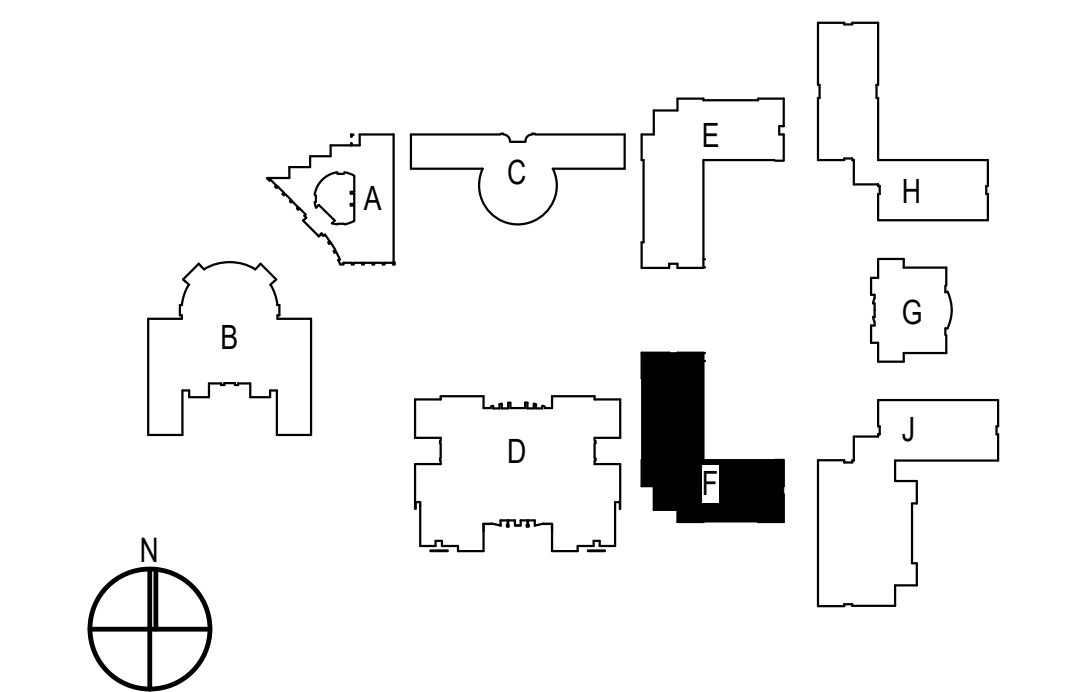
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KEYED NOTES

- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE FPM-70 AND SHOW LOCATION FROM THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
- REMOVE ACUOUSICAL CEILING TILES FROM THE BUILDING PER PART 1.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA 1/2" RIGID PVC PIPE FOR DAMPER CLOSURE. LABEL RED TO CIRCUIT ID.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACUOUSICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACUOUSICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, AS BOX, & 4S RING(COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON-AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACUOUSICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION: CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

NO GAS BURNING HVAC UNIT IN THIS BUILDING.
CO DETECTOR NOT REQUIRED.

REMOVAL & RE-INSTALLATION OF ACUOUSICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



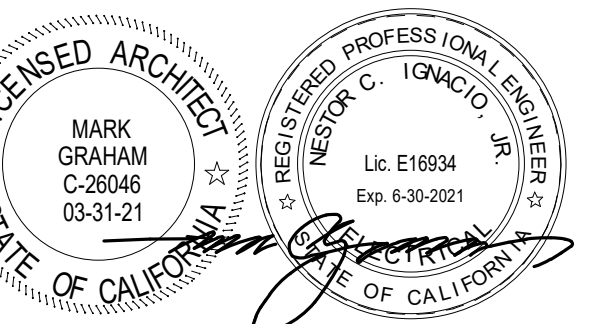
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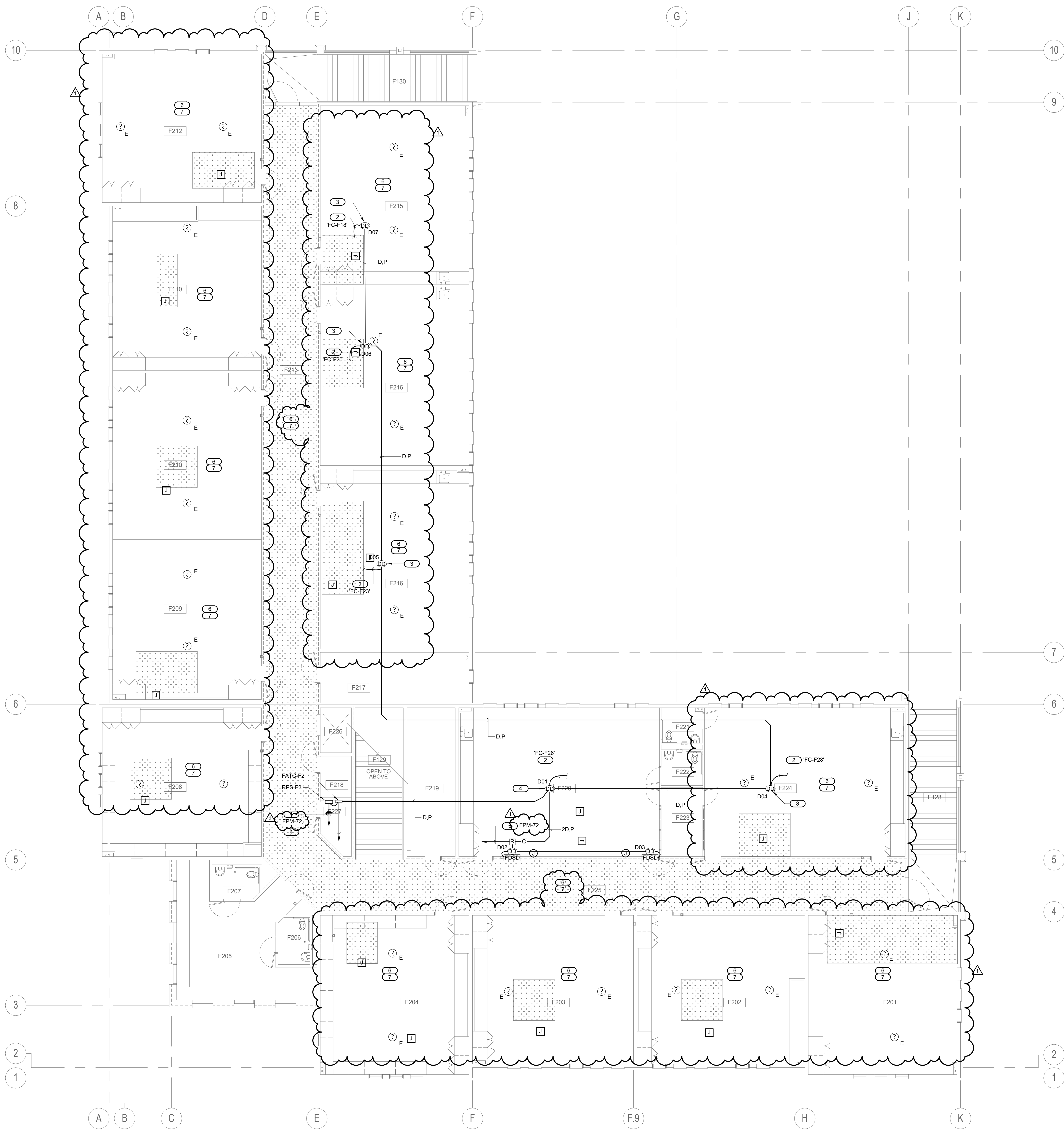
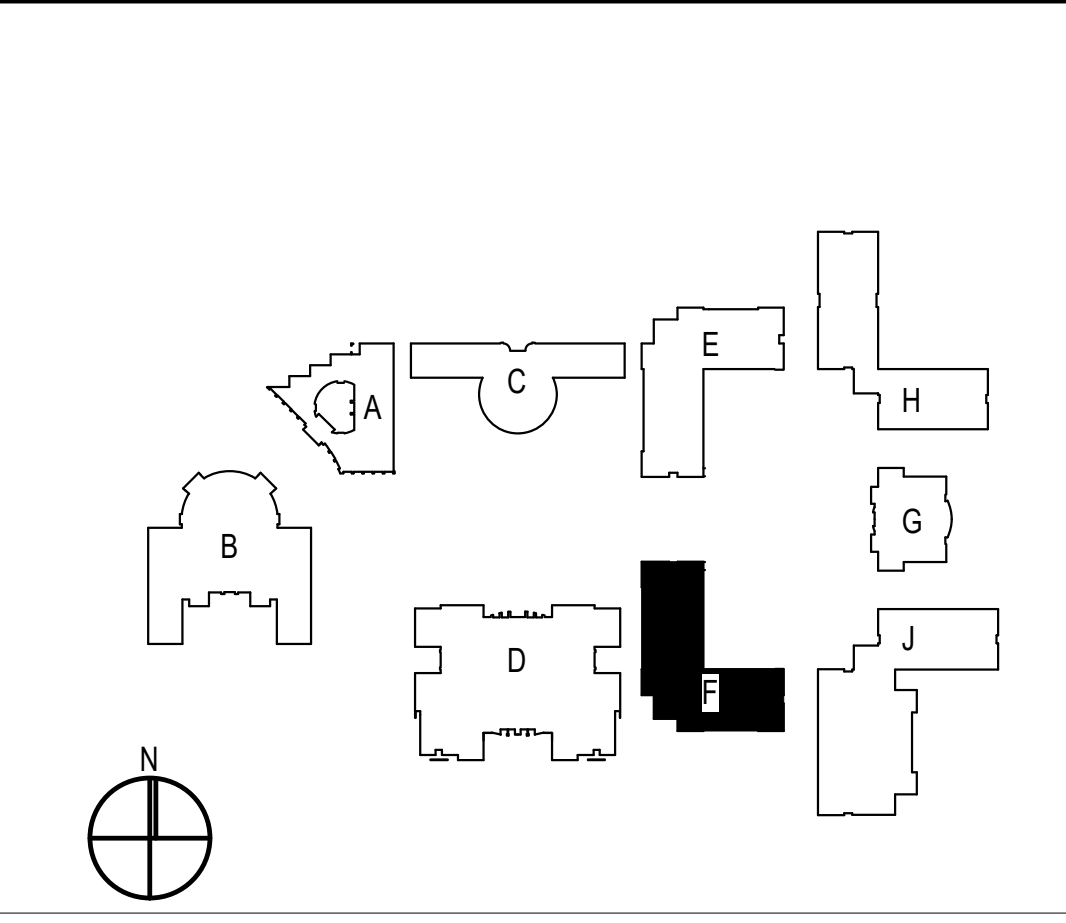
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KEYED NOTES

- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM TO CIRCUIT ID."
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND RE-PLACE (AND AS SHOWN, LOCATE IN THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACTP DUE TO REMOVAL OF EXISTING DEVICES.
- TO (N) FACT LOCATED IN THE ADMIN BUILDING VIA FACTP.
- RUN TO DEDICATED 120V CIRCUIT FOR FIRE SMOKE DAMPER VIA NEW WIRE LOOP FROM TRANSFORMER LABELED TO CIRCUIT ID.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON-AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

NO GAS BURNING HVAC UNIT IN THIS BUILDING.
CO DETECTOR NOT REQUIRED.

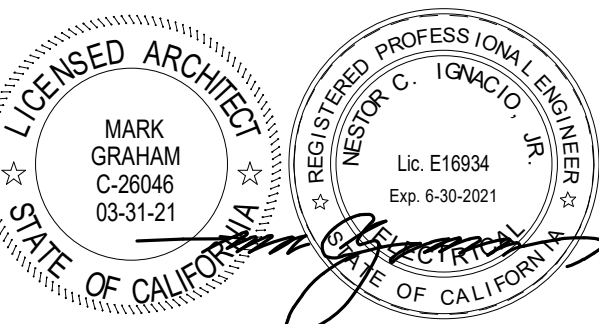
REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



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**PACIFICA HIGH SCHOOL
HVAC ADDITION
OXNARD UNION HIGH SCHOOL DISTRICT**
SCHOOL SITE (805) 278-2907
3400 W GONZALES RD,
OXNARD, CA 93036

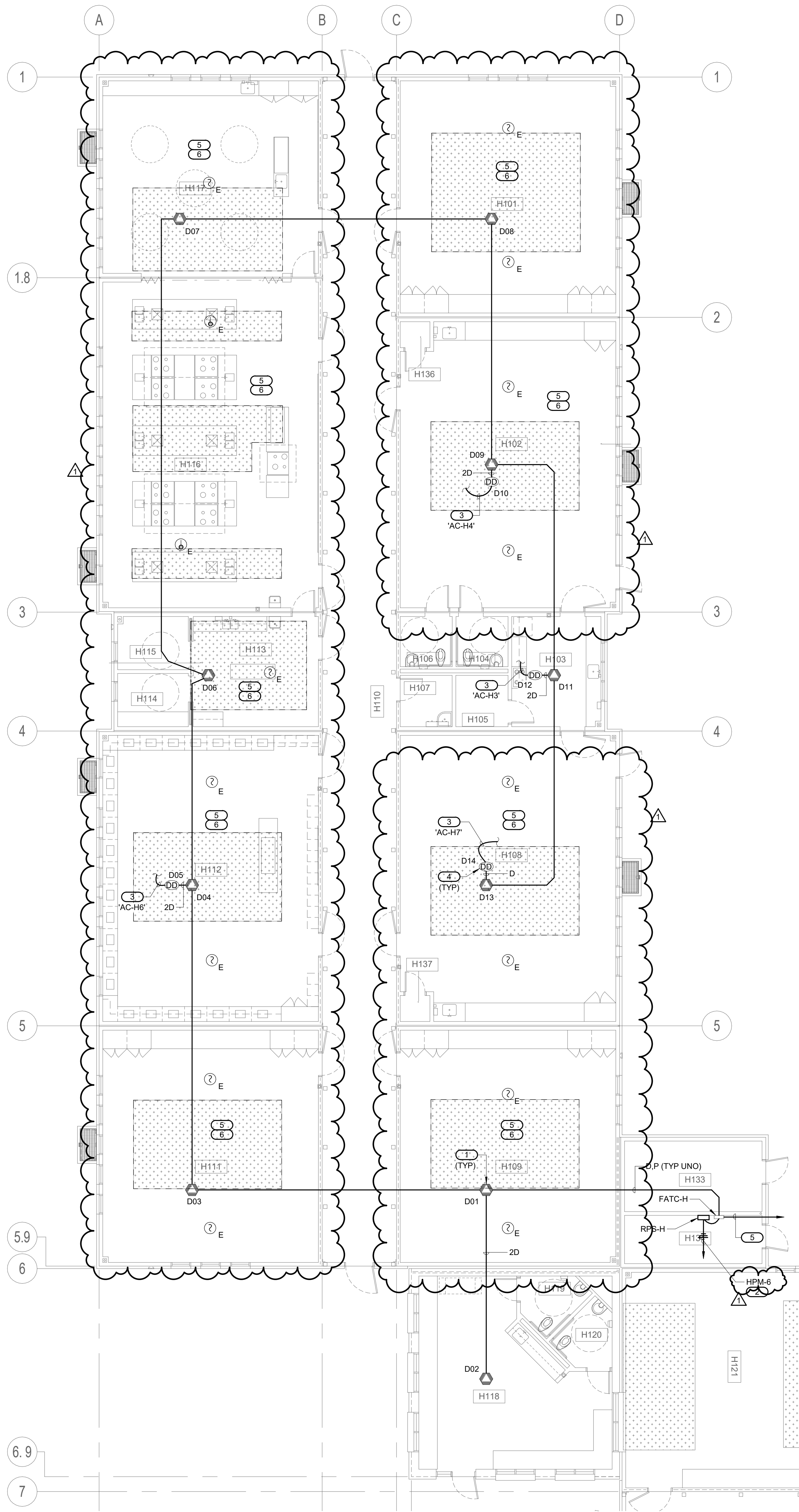
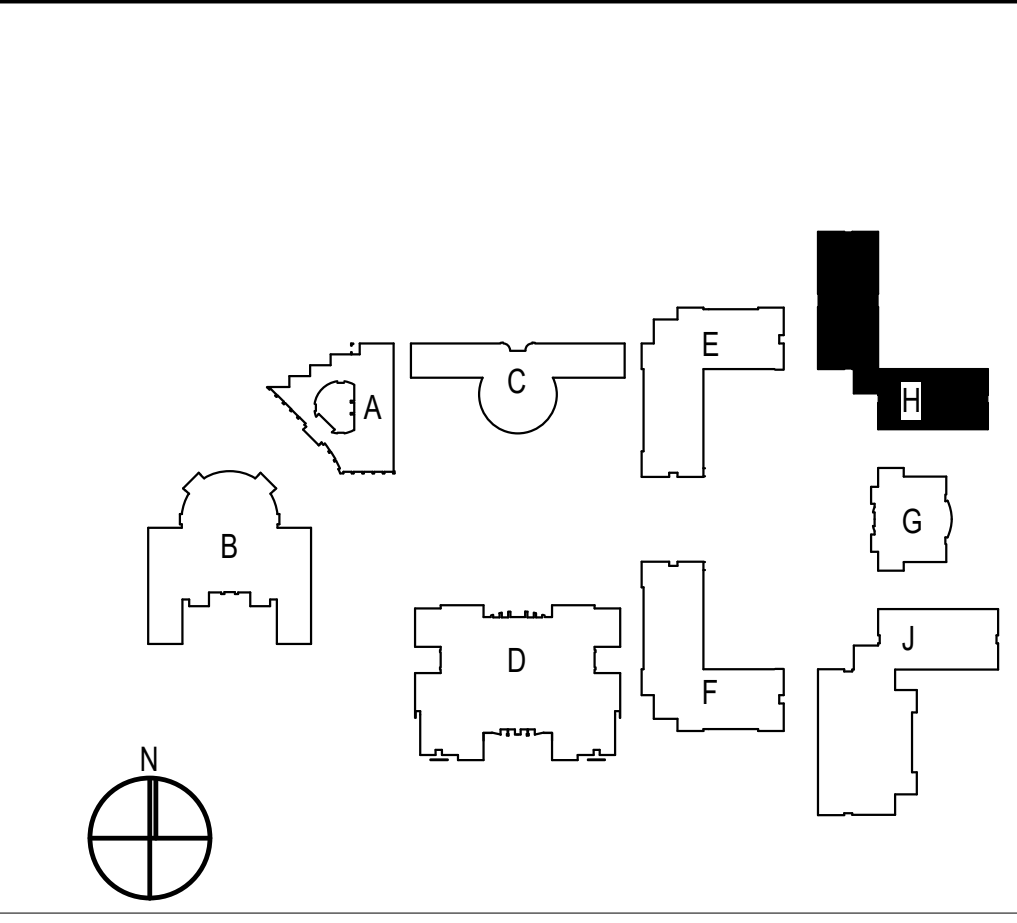


CONSULTANT
IMEG
901 VIA PIEMONTE SUITE 400
ONTARIO, CA 91764
909-477-6915 FAX: 909-477-6916
www.imegcorp.com # 19002942.00

KEYED NOTES

- TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM" TO CIRCUIT ID.
- TO HVAC UNIT FOR SHUT-DOWN.
- REMOVE AND REPLACE IN KIND (S) SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
- TO (N) FACP LOCATED IN THE ADMIN BUILDING VIA FATC.
- FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, AS BOX, & AS RING/COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
- PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION: CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND REROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE REROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

REMOVAL & RE-INSTALLATION OF ACOUSTICAL CEILING TILES. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILED PROCEDURE.



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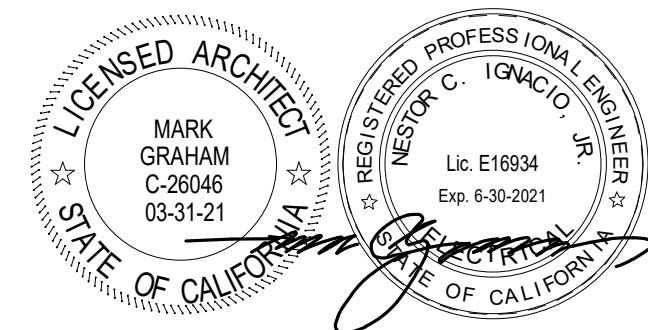
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PROJECT NUMBER: Project Number	

**BUILDING H REMODEL
FLOOR PLAN - AREA 1**

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1	08/25/20	Addendum 1
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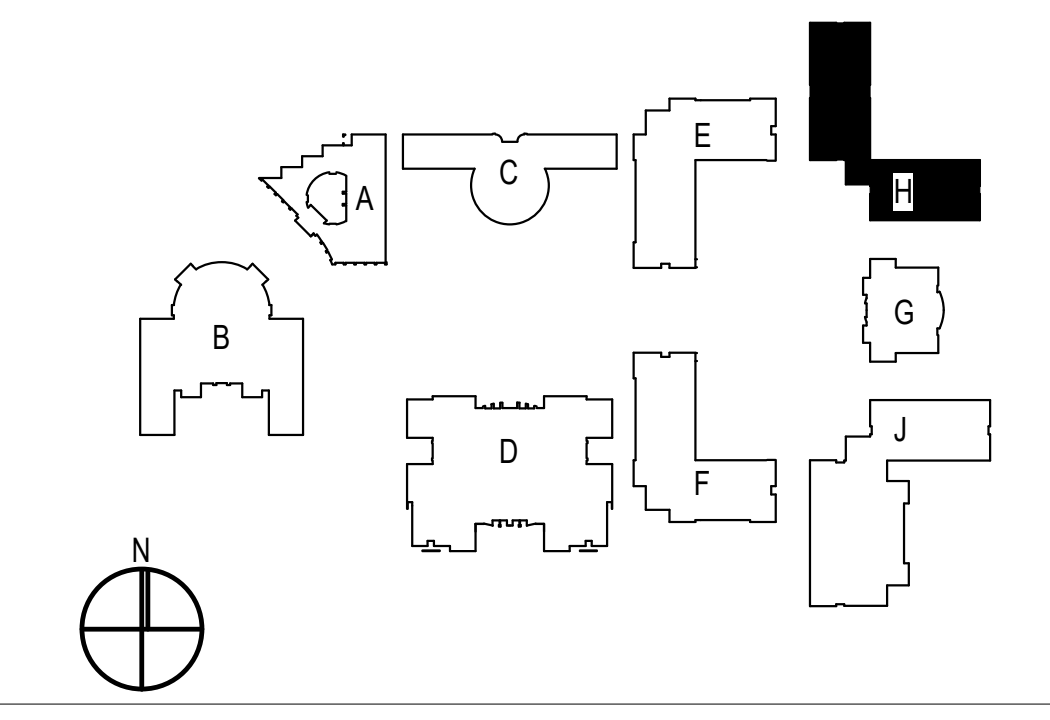
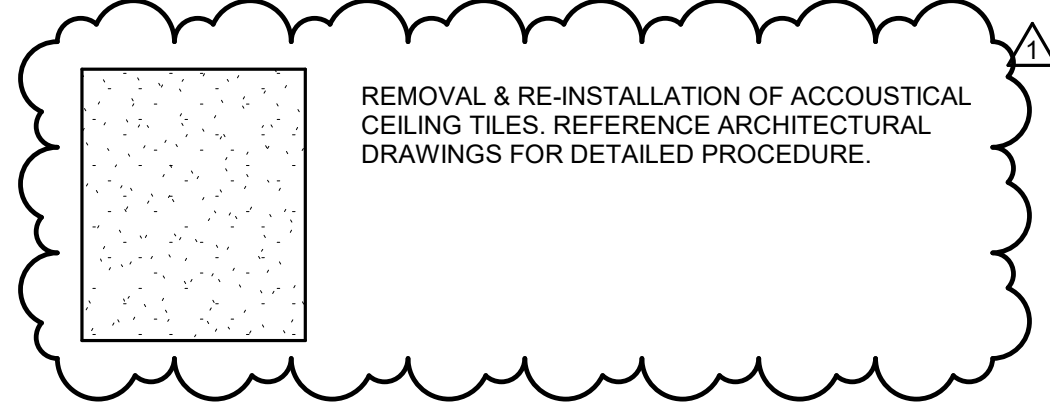
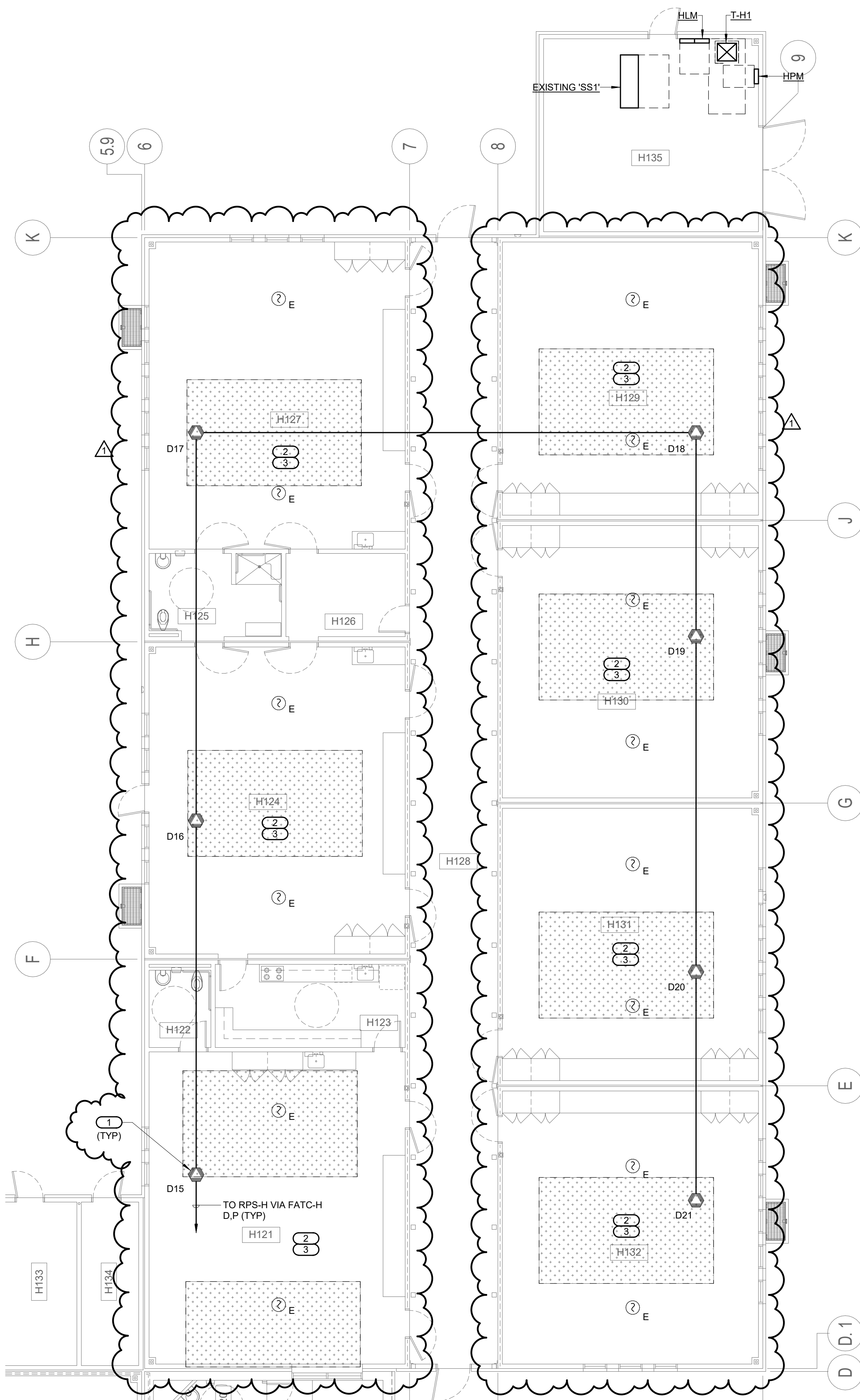
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PROJECT NUMBER: Project Number	

**BUILDING H REMODEL
FLOOR PLAN - AREA 2**

DRAWING NUMBER: **FAH2.2**

KEYED NOTES

1. PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR EVERY ROOM, SEE DRAWING FOR LOCATIONS. (TYP)
2. FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
 - REMOVE FIRE DEVICES FROM ACOUSTICAL CEILING TILE.
 - IDENTIFY DEVICE (NO PERMANENT MARKINGS) AND IDENTIFY MOUNTING EQUIPMENT (T-BAR HANGER, 4S BOX, & 4S RING COVER) FOR RE-INSTALLATION PURPOSES.
 - KEEP FIRE ALARM CABLE(S) ON JUNCTION BOX AND SUPPORT MOUNTING EQUIPMENT ON NON AFFECTED AREA IN ORDER TO MAINTAIN WORKING CLEARANCE DURING CONSTRUCTION.
 - RE-INSTALL DEVICE ALONG WITH MOUNTING EQUIPMENT BACK ON EXISTING ACOUSTICAL CEILING.
 - PROPER RE-INSTALLATION OF DEVICE SHALL BE PERFORMED AND DEVICE SHALL BE FULLY OPERABLE.
3. PROCEED WITH THE FOLLOWING INDICATIONS PRIOR MECHANICAL EQUIPMENT INSTALLATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR IDENTIFICATION OF CONFLICTING CONDUITS. INTERCEPT CONFLICTING CONDUIT AND RE-ROUTE. PROVIDE A JUNCTION BOX ON EACH END OF CONDUIT TO BE RE-ROUTED. EACH JUNCTION BOX AND CONDUIT SHALL BE PROPERLY INSTALLED AND STRAPPED TO BUILDING INFRASTRUCTURE.
 - FOR FIRE ALARM CONDUIT PROVIDE NEW FIRE ALARM CABLES FROM THE NEAREST TERMINAL STRIP OR DEVICE WITH LANDING TERMINAL.

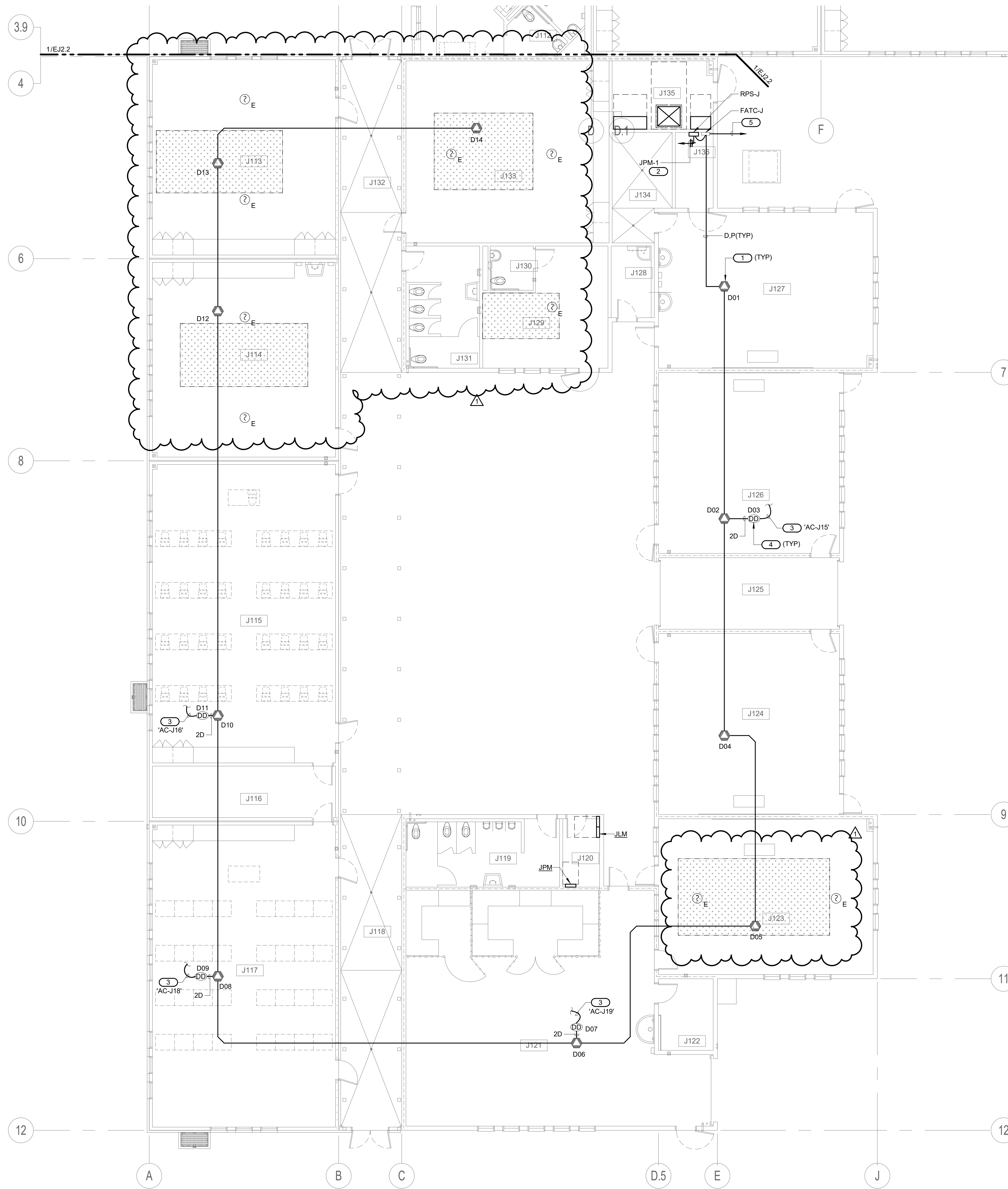
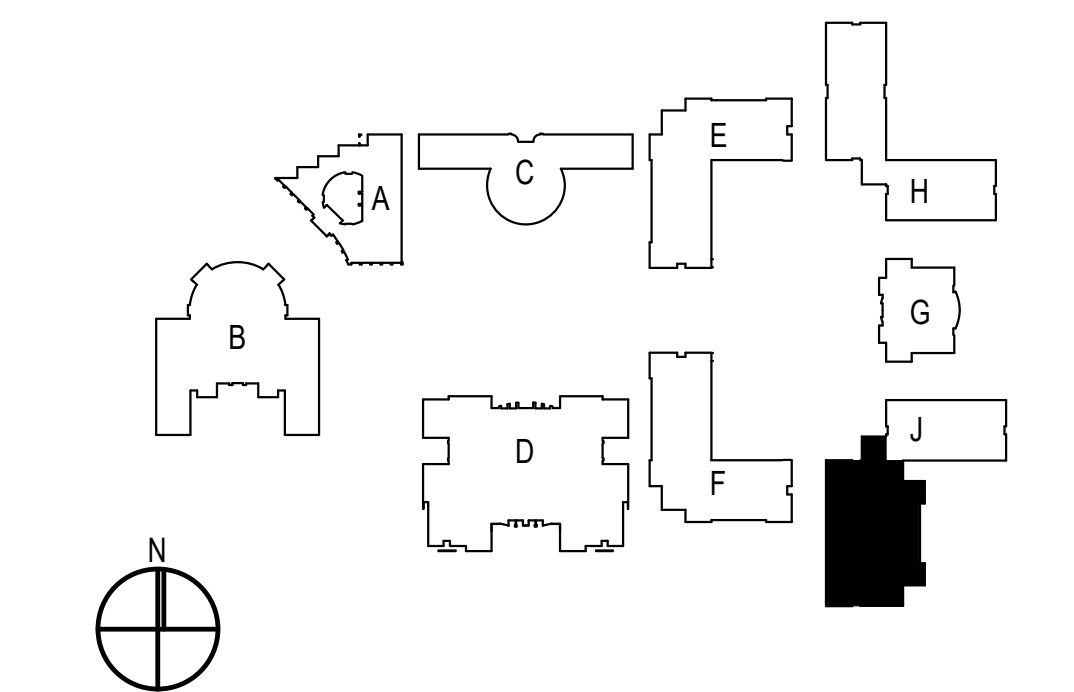


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KEYED NOTES

1. PROVIDE NEW UL AND CSFM LISTED, CARBON MONOXIDE DEVICE FOR UNIT WHERE NATURAL GAS BURNING APPLIANCE IS UTILIZED.
2. TO DEDICATED 120V CIRCUIT POWER SOURCE. PROVIDE "LOCK-ON" DEVICE TO BREAKER AND RED LABEL, INDICATING "FIRE ALARM" TO CIRCUIT ID.
3. TO HVAC UNIT FOR SHUT-DOWN.
4. REMOVE AND REPLACE IN KIND AS SHOWN. LOCATED IN THE SUPPLY DUCT OF HVAC UNIT. DISCONNECT (E) WIRE LOOP FROM THE REMOVED DEVICE AND REPROGRAM (E) FACP DUE TO REMOVAL OF EXISTING DEVICES.
5. TO (N) FACP LOCATED IN THE ADMIN BUILDING VIA FATC.
6. FIRE ALARM DEVICE AFFECTED DURING REMOVAL/RE-INSTALLATION OF ACOUSTICAL CEILING.
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NO	DATE	BY	DESCRIPTION
1	08/25/20		Addendum 1
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BUILDING J REMODEL FLOOR PLAN - AREA B

DRAWING NUMBER: **FAJ2.2**