

ADDENDUM NO. 3

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

HVAC System Upgrade
Transition Center of Kansas City
Kansas City, Missouri
PROJECT NO.: C1904-01

New Bid Opening Date: 1:30 PM, Tuesday, August 8, 2023 (CHANGED)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

- 1) Section 001116 – Invitation For Bid
 - a) REVISE Paragraph 3.0-A as follows:
 - (1) Until: 1:30 PM, Tuesday, August 8, 2023.

- 2) Section 232116 – Hydronic Piping Specialties
 - a) ADD Paragraph 2.1-B as follows:
 - i) Hot water piping shall meet minimum specifications of chilled water piping as specified in Section 232116.

- 3) Section 236426.13 – Air Cooled Rotary-Screw Chiller
 - a) ADD acceptable manufacturer 2.2-A.4 as follows:
 - i) York

DRAWING CHANGES:

1. Sheet A101
 - a. Drawing updated to include additional ceiling demo for piping modifications above ceiling in Corridor 167.
 - b. Ceiling removal and replacement no longer required in Dry Storage 148.

2. Sheet S-004
 - a. Updated to add Details 10 and 11.

3. Sheet S-101
 - a. Drawing updated to include structural piping supports.

4. Sheet S-102
 - a. Drawing updated to include structural piping supports.
5. ADD Sheet S-103
 - a. Drawing added to include structural piping supports.
6. ADD Sheet S-201
 - a. Drawing added to include structural piping supports.
7. ADD Sheet S-202
 - a. Drawing added to include structural piping supports.
8. ADD Sheet S-301
 - a. Drawing added to include structural piping support details.
9. Sheet MP101B
 - a. Drawing updated to accommodate structural piping supports.
10. Sheet MP101D
 - a. Drawing updated to accommodate structural piping supports.
11. Sheet MP102A
 - a. Drawing updated to accommodate structural piping supports.
12. Sheet MP102B
 - a. Drawing updated to accommodate structural piping supports.
13. Sheet M701
 - a. Drawing updated to correct pipe size discrepancy.
14. Sheet EP101A
 - a. VAVs to be powered with 24V from control transformer in associated BAS cabinet
15. Sheet EP101C
 - a. VAVs to be powered with 24V from control transformer in associated BAS cabinet.
16. Sheet EP102A
 - a. VAVs to be powered with 24V from control transformer in associated BAS cabinet.

GENERAL COMMENTS:

1. Bidders desiring to perform a site inspection should contact Aaron Keck (573) 751-7169 or Mike Strong (573) 522-4647 to schedule a time to enter the facility.
2. Please contact Paul Girouard, Contract Specialist, at (573) 751-4797, Paul.girouard@oa.mo.gov for questions about bidding procedures, MBE\WBE\SDVE Goals, and other submittal requirements.
3. The deadline for technical questions was noon on July 19, 2023.
4. **Changes to, or clarification of, the bid documents are only made as issued in the addenda.**
5. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
6. Current Planholders list is available online at: <https://www.oafmdcplanroom.com/jobs/2053/plan-holders/c1904-01-hvac-system-upgrade-transition-center-of-kansas-ciy>
7. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65203, (573) 446-7768 to get plans and specifications.
8. **All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled. Failure to do so will result in rejection of the bid.**
9. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**

ATTACHMENTS:

1. ADDED Sheets: S-103, S-201, S-202, S-301
2. REVISED Sheets: A101, S-004, S-101, S-102, MP101B, MP101D, MP102A, MP102B, M701, EP101A, EP101C, EP102A

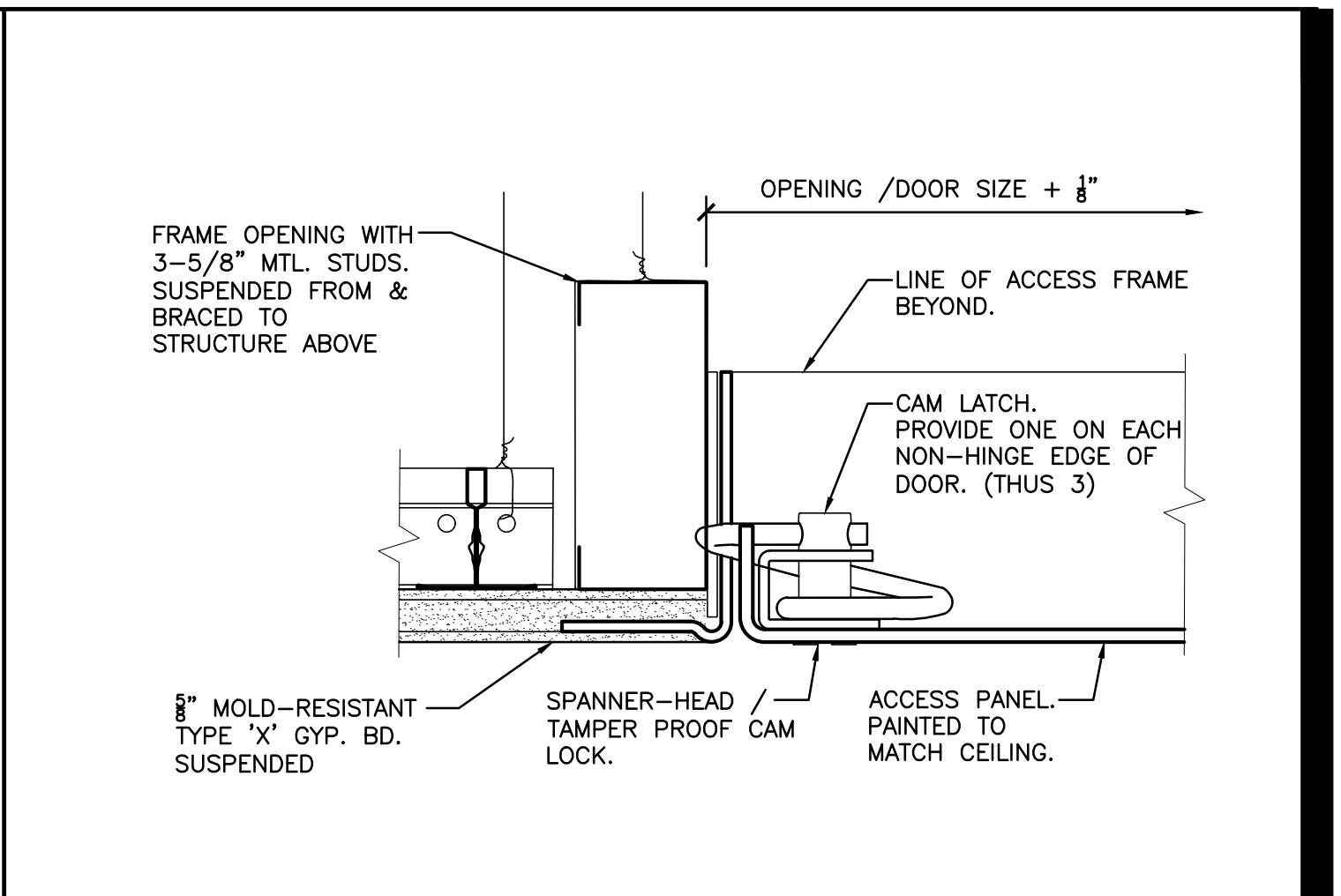
July 31, 2023

END ADDENDUM NO. 3

GENERAL NOTES

- CONTRACTOR TO PROTECT ALL EXISTING BUILDING ELEMENTS THAT ARE TO REMAIN. PATCH AND REPAIR ANY ITEMS OR AREAS THAT ARE DAMAGED AND/OR EXPOSED AS A RESULT OF THE SCHEDULED DEMOLITION.
- THE CONTRACTOR SHALL COORDINATE AND SCHEDULE WITH THE OWNER ANY AND ALL INTERRUPTIONS IN ANY SERVICE TO THE BUILDING AS REQUIRED BY THE SCOPE OF WORK. THESE INTERRUPTIONS SHALL NOT INTERFERE WITH THE DAILY OPERATIONS OF THE OWNER.

- PLAN NOTES:**
- | | |
|---|--|
| <p>1 MODIFY EXISTING STEEL CAGE SYSTEM AS REQUIRED FOR NEW CONSTRUCTION. RE: NEW WORK.</p> <p>2 MODIFY EXISTING GALV. FENCE SYSTEM AS REQUIRED FOR NEW CONSTRUCTION. RE: NEW WORK.</p> <p>3 REMOVE EXISTING CORNER GUARD. PREP WALL FOR EXTENSION PER NEW WORK.</p> <p>4 DISASSEMBLE EXISTING METAL BUILDING ROOFING PANELS (MR-24). REMOVE BLANKET INSULATION AND ASSOCIATED VAPOR BARRIER AS NECESSARY TO EXPOSE PEMB PURLINS TO CREATE TEMP. ROOF OPENING FOR DROPPING NEW MECH. EQUIP. THROUGH OPENING. RE: MECH. REASSEMBLE / REINSTALL INSULATION, VAPOR BARRIER, INSTALL NEW ROOFING PANELS TO RETURN ROOF SYSTEM TO ORIGINAL CONDITION.</p> | <p>5 REMOVE EXIST. GYP. CEILING AS NECESSARY TO INSTALL NEW HVAC EQUIP. EXTENT TO BE DETERMINED BY G.C. RE:MEP. FOR ABOVE-CLG. EQUIP. RECONSTRUCT CEILING USING SIMILAR MATERIALS AS EXIST. PATCH TO MATCH, PRIME & PAINT.</p> <p>6 REMOVE EXIST. SUSPENDED ACOUSTIC CEILING SYSTEM AS REQUIRED TO INSTALL NEW PIPING SYSTEM. EXTENT OF REMOVAL TO BE DETERMINED BY CONTRACTOR. SALVAGE FOR REINSTALLATION OR REPLACE WITH MATCHING SYSTEM AS APPROVED BY OWNER. RE: MEP FOR PIPING SCOPE OF WORK.</p> |
|---|--|



2 CEILING ACCESS PANEL DETAIL
6" = 1'-0"



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

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



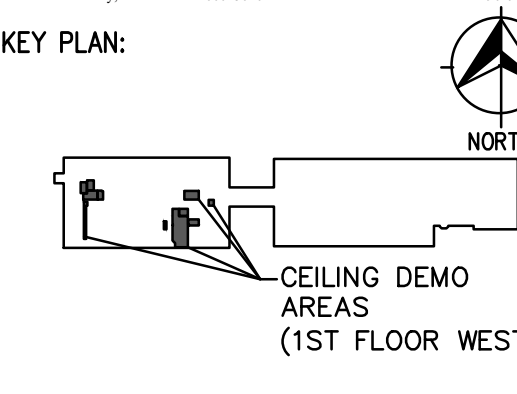
MEP ENGINEER:

InSite Group
DEDICATION. DESIRE. INTEGRITY.
3540 NE RALPH POWELL RD., STE. B
LEE'S SUMMIT, MO 64064 Ph: (816) 228-3377

ARCHITECT:

alinea architects, p.a.
14632 South Park Circle
Overland, Kansas 66202
Ph: 913.908.9577
www.alinea-arch.com

1001 N. GARDNER AVENUE, A-3000150402 PROJECT NUMBER: 19029



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

PROJECT TITLE:
HVAC & BAS UPGRADE

TRANSITION CENTER
OF KANSAS CITY
651 MULBERRY STREET
KANSAS CITY, MISSOURI

PROJECT # C1904-01
SITE # 7027
FACILITY # 9327027001

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REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 03/21/2023

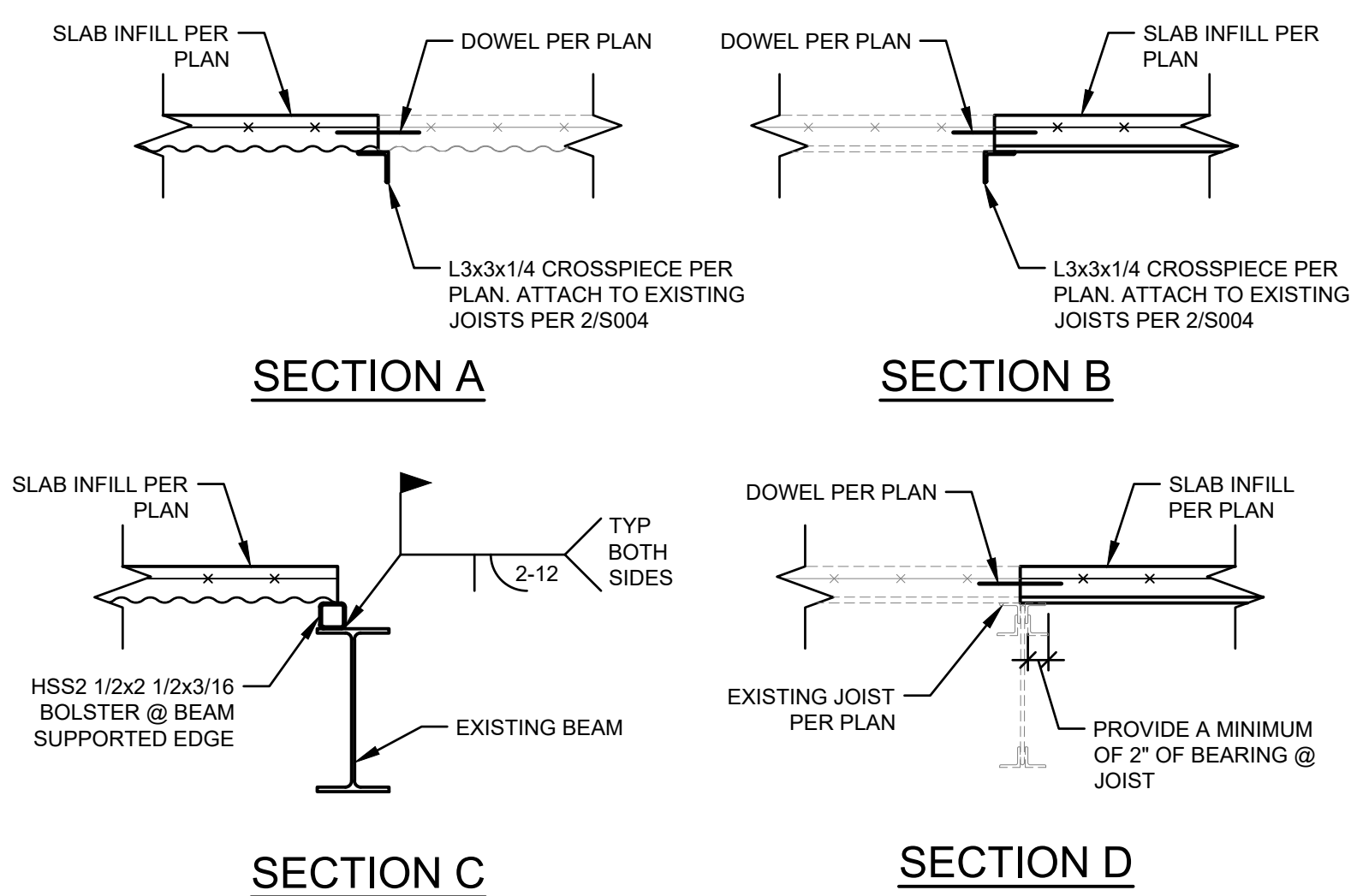
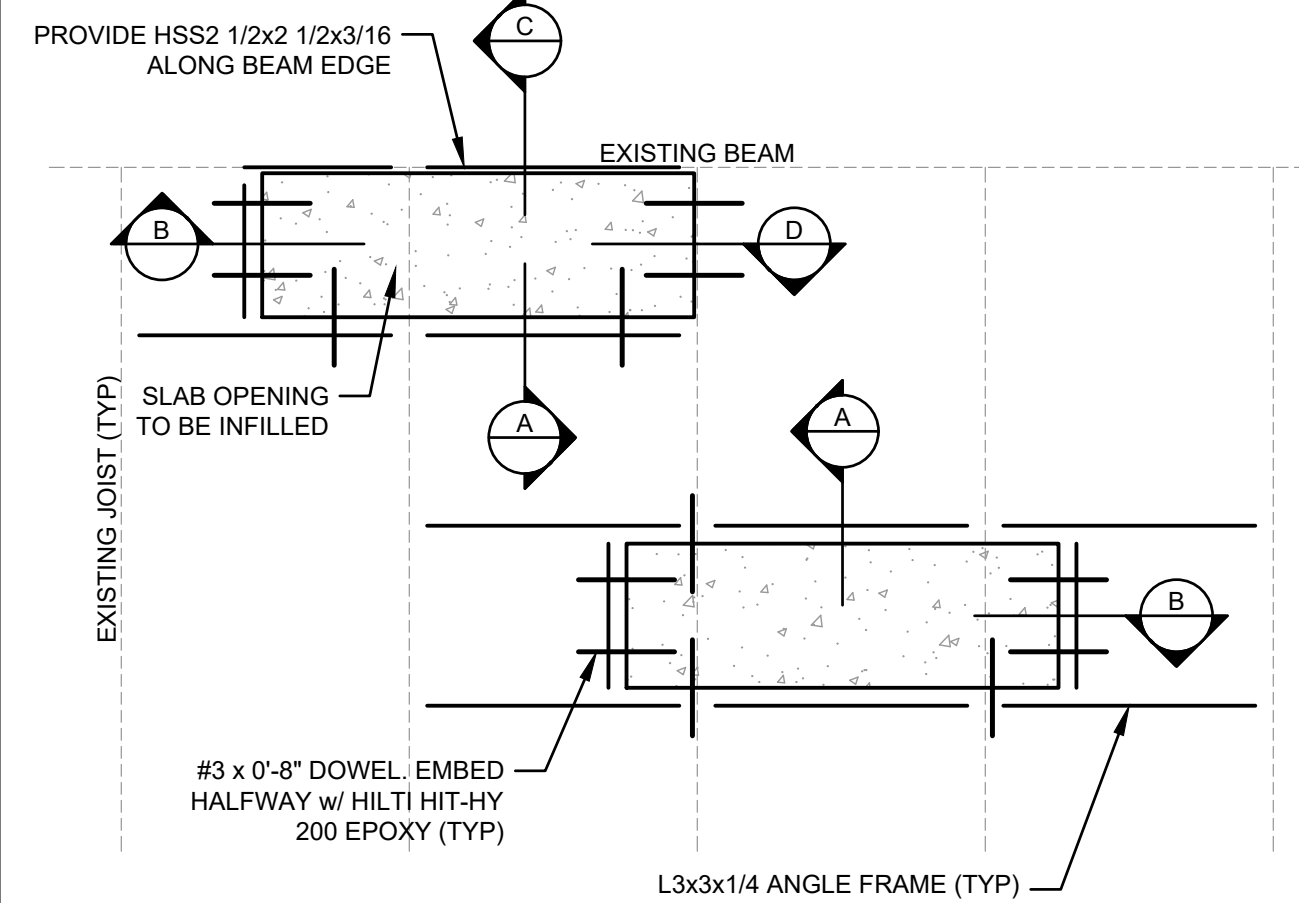
CAD DWG FILE:
DRAWN BY: _____
CHECKED BY: **ALINEA**
DESIGNED BY: **DTC**

SHEET TITLE:
**ARCHITECTURAL
CEILING PLAN -
FIRST FLOOR - WEST**

SHEET NUMBER:
A101
5 OF 111 SHEETS
MARCH 21, 2023

NOTES:

1. FIELD VERIFY LOCATIONS TO BE INFILLED AND COORDINATE W/ MEP.
2. ALL DECK EDGES SHALL BE SUPPORTED BY A JOIST, BEAM, OR ANGLE FRAME.
3. DECK SHALL BE ATTACHED TO SUPPORT STEEL W/ 5/8" Ø PUDDLE WELDS @ 6" O.C. AND CORNERS.
4. INFILL SLAB-ON-DECK 3 1/2" NORMAL WEIGHT CONCRETE ON 9/16" 24 GA DECK W/ 6x6 - W2.9xW2.9.

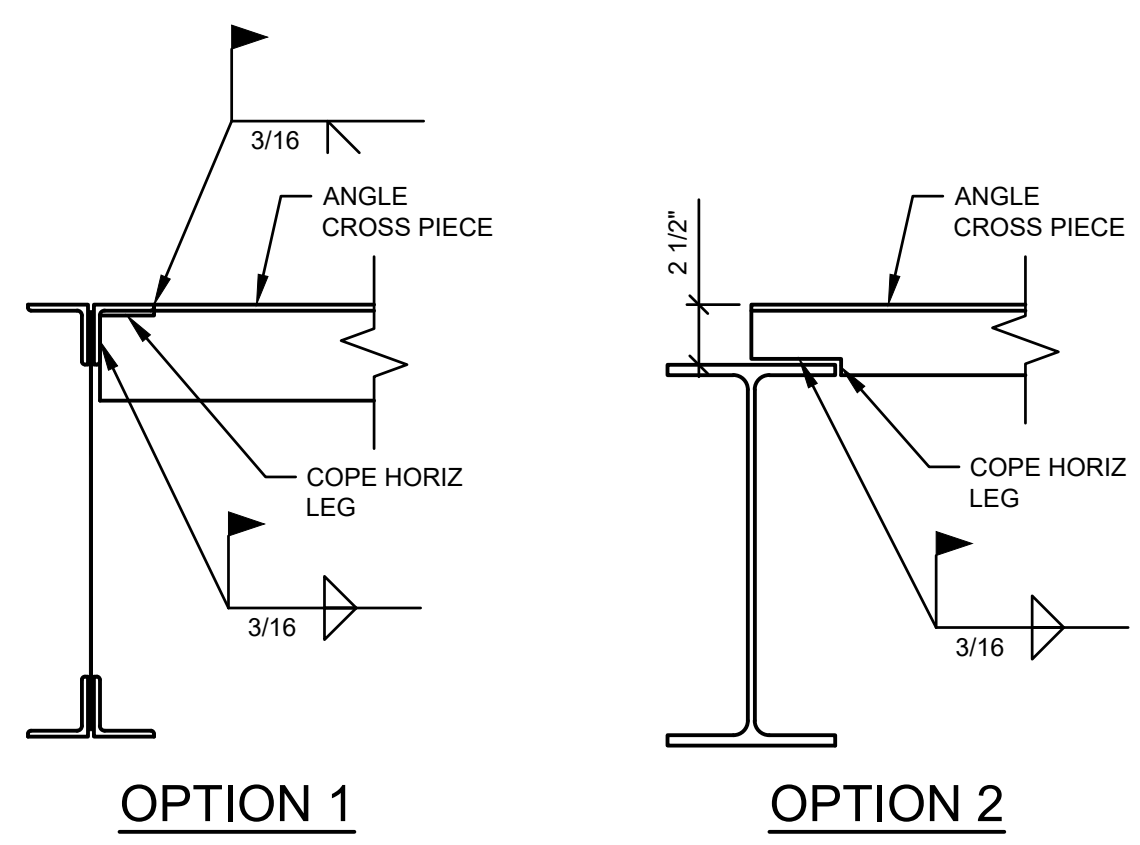


SLAB-ON-DECK INFILL DETAIL

N.T.S.

1

S-004

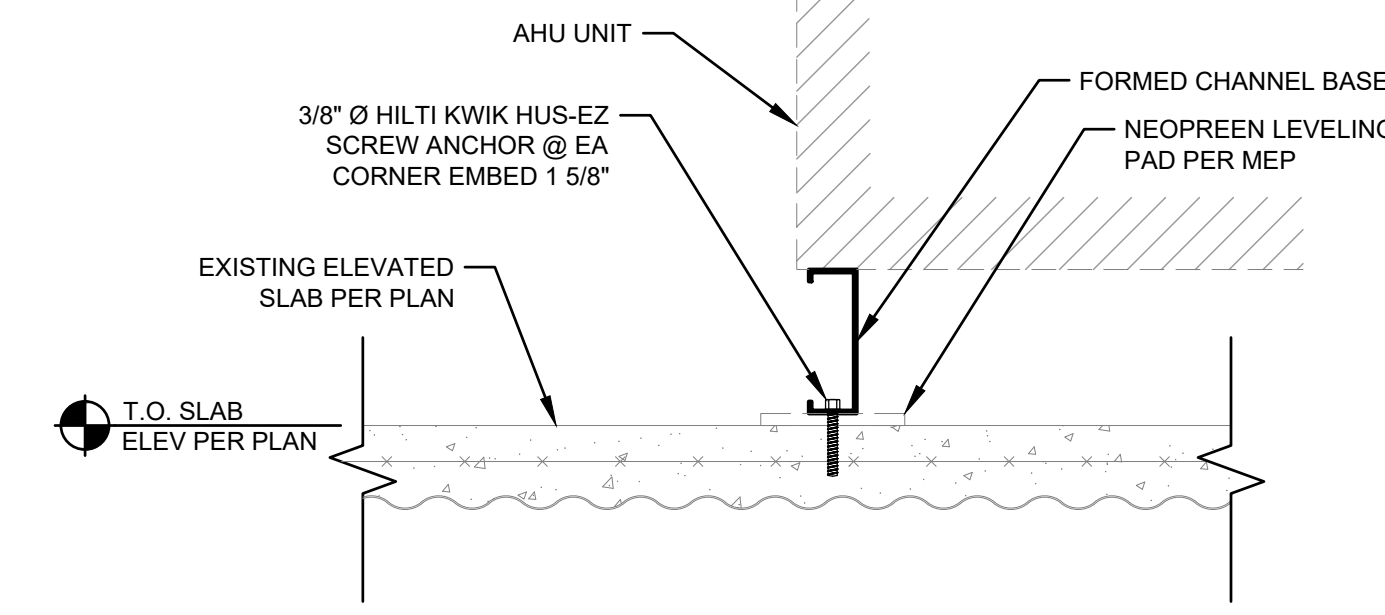


ANGLE ATTACHMENT DETAILS

N.T.S.

2

S-004

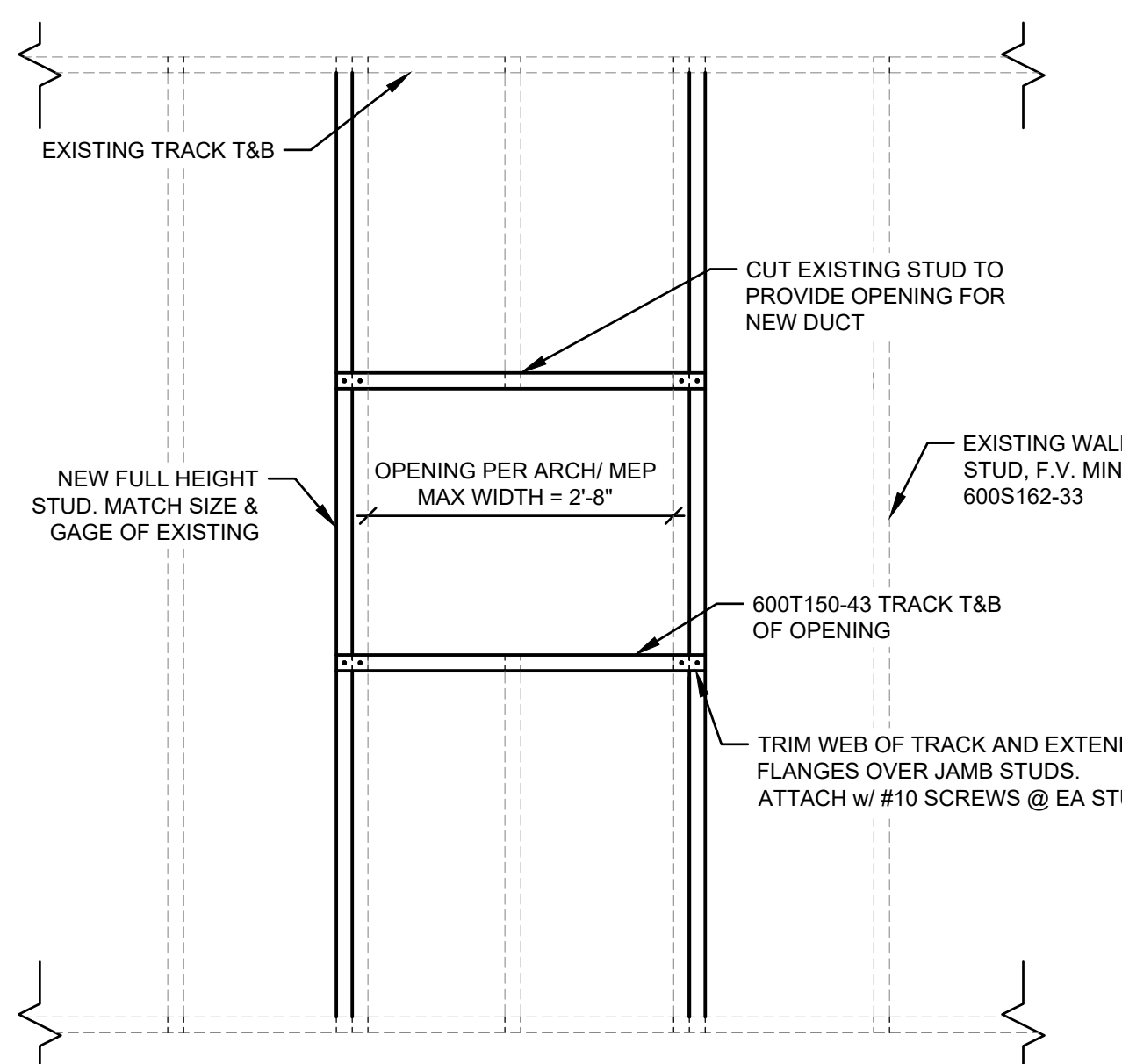


UNIT CURB DETAIL

N.T.S.

3

S-004

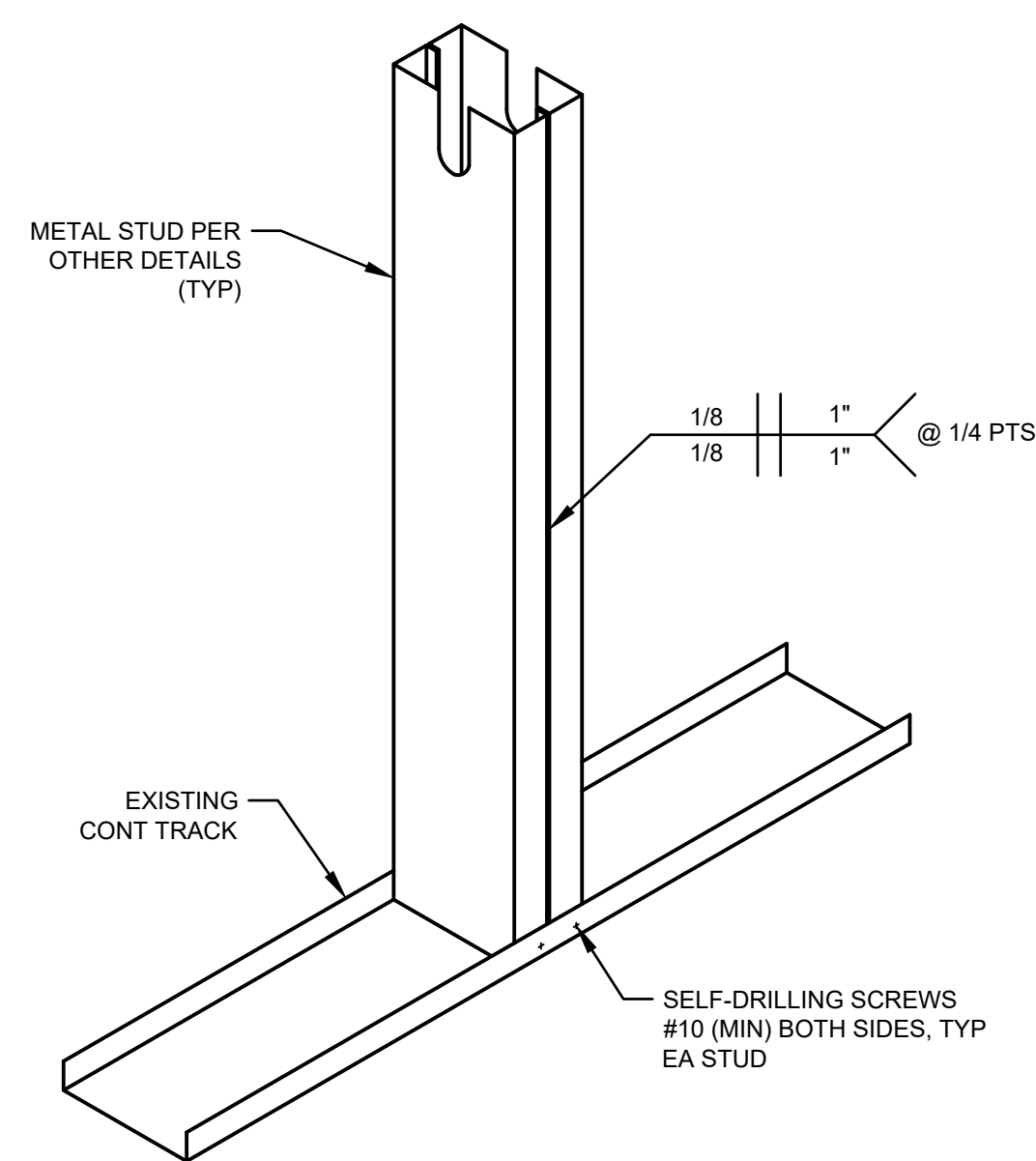


STUD FRAMED OPENING DETAIL

N.T.S.

4

S-004

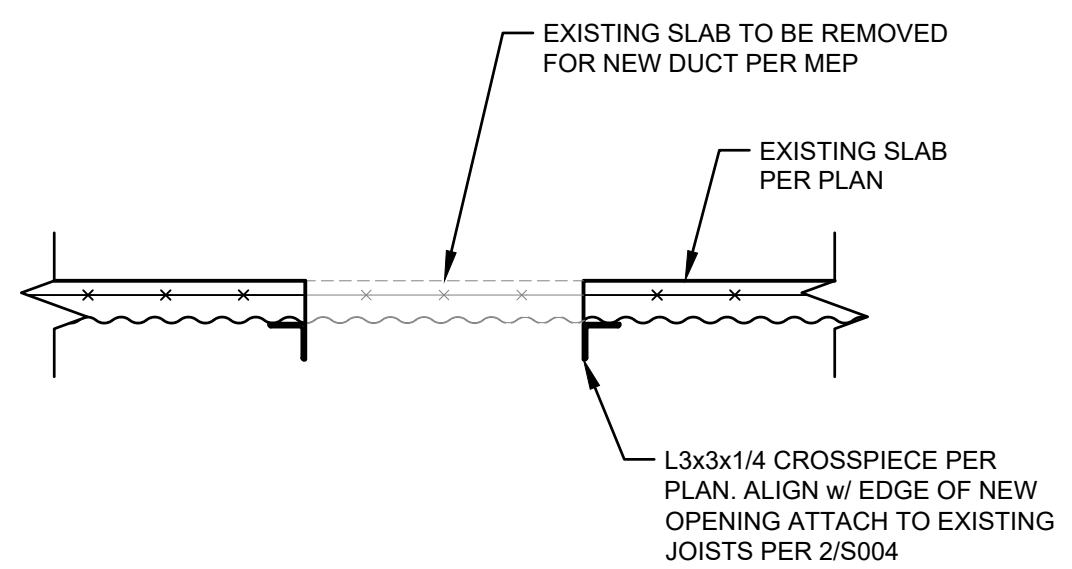


DOUBLE STUD COLUMN DETAIL

N.T.S.

5

S-004

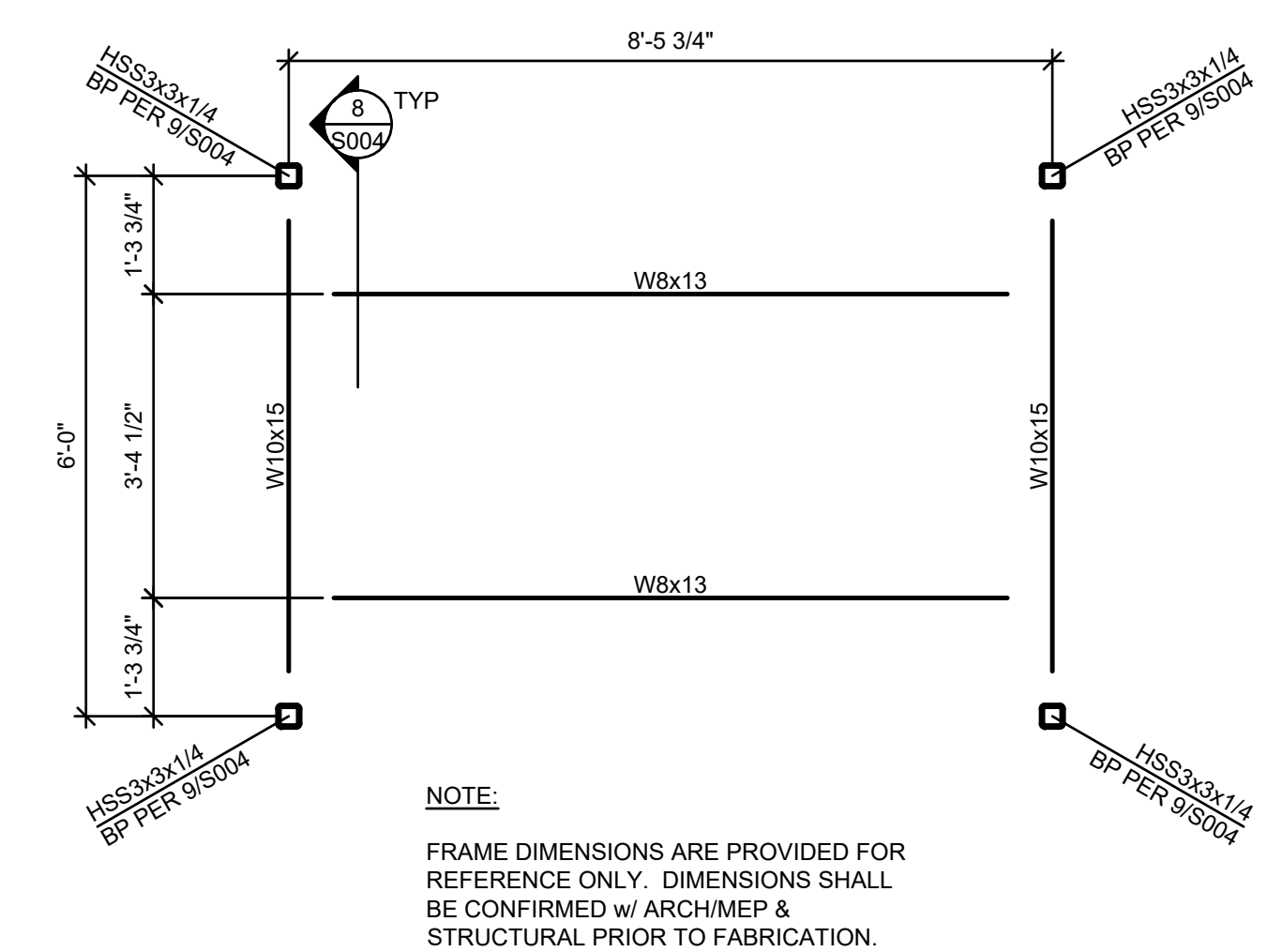


NEW SLAB OPENING DETAIL

N.T.S.

6

S-004

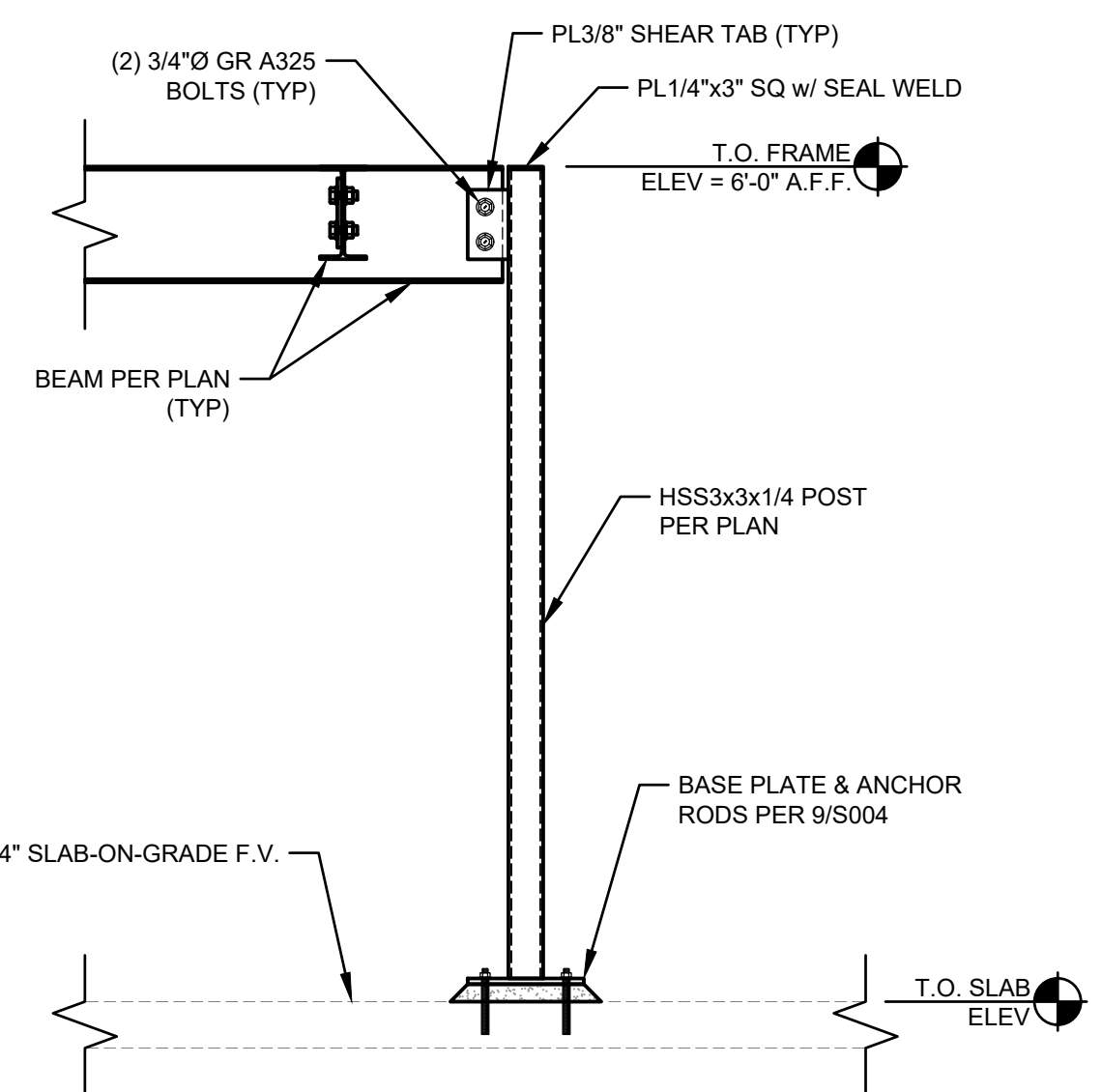


MAU SUPPORT FRAME

N.T.S.

7

S-004

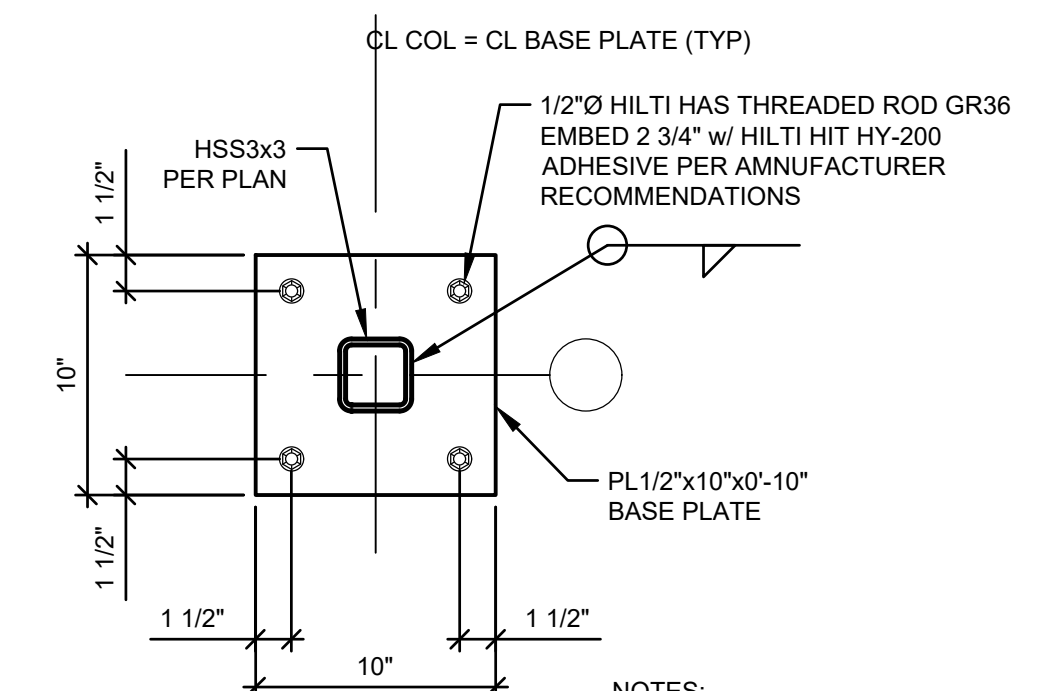


MAU SUPPORT FRAME DETAIL

N.T.S.

8

S-004

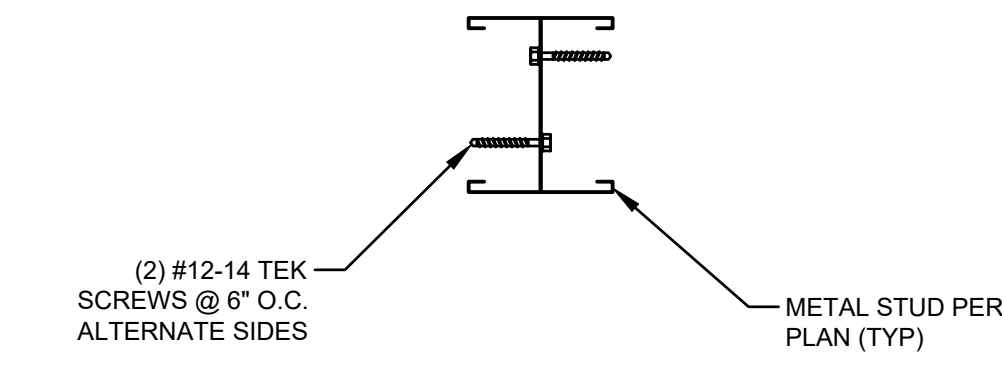


BASE PLATE DETAIL

N.T.S.

9

S-004

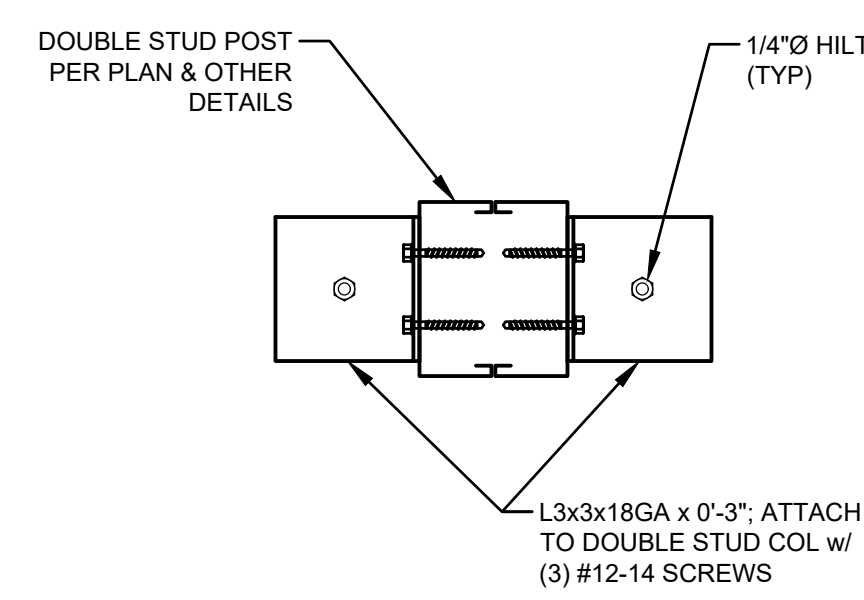


BACK-TO-BACK STUD DETAIL

N.T.S.

10

S-004



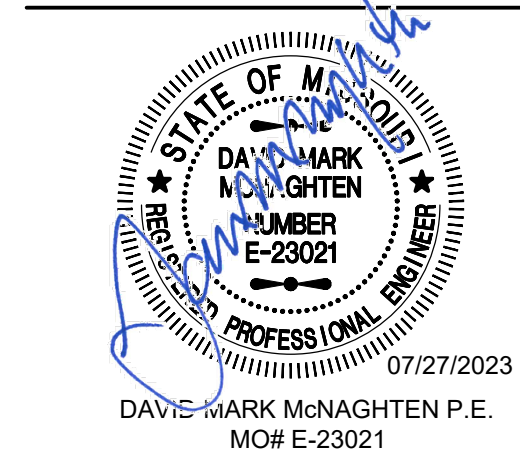
DOUBLE STUD POST ANCHORAGE DETAIL

N.T.S.

11

S-004

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



MEP ENGINEER:



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3540 NE RALPH POWELL RD., STE. B
LEE'S SUMMIT, MO 64064 Ph: (816) 228-5577

PMA Engineering
6717 Shownee Mission Pkwy
Suite 100, Overland Park, KS 66202
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www.pmaengineering.com
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OF AUTHORITY # 001400

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FACILITY # 9327027001

REVISION: ADDENDUM #03
DATE: 07/27/2023
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 03/21/2023

CAD DWG FILE: _____
DRAWN BY: DLH
CHECKED BY: ZRR
DESIGNED BY: _____

SHEET TITLE:
TYPICAL DETAILS

SHEET NUMBER:

S-004

13 OF 111 SHEETS
MARCH 21, 2023



MEP ENGINEER:



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REVISION:

DATE:

REVISION:

DATE:

ISSUE DATE: 03/21/2023

CAD DWG FILE:

DRAWN BY: DLH

CHECKED BY: ZRR

DESIGNED BY:

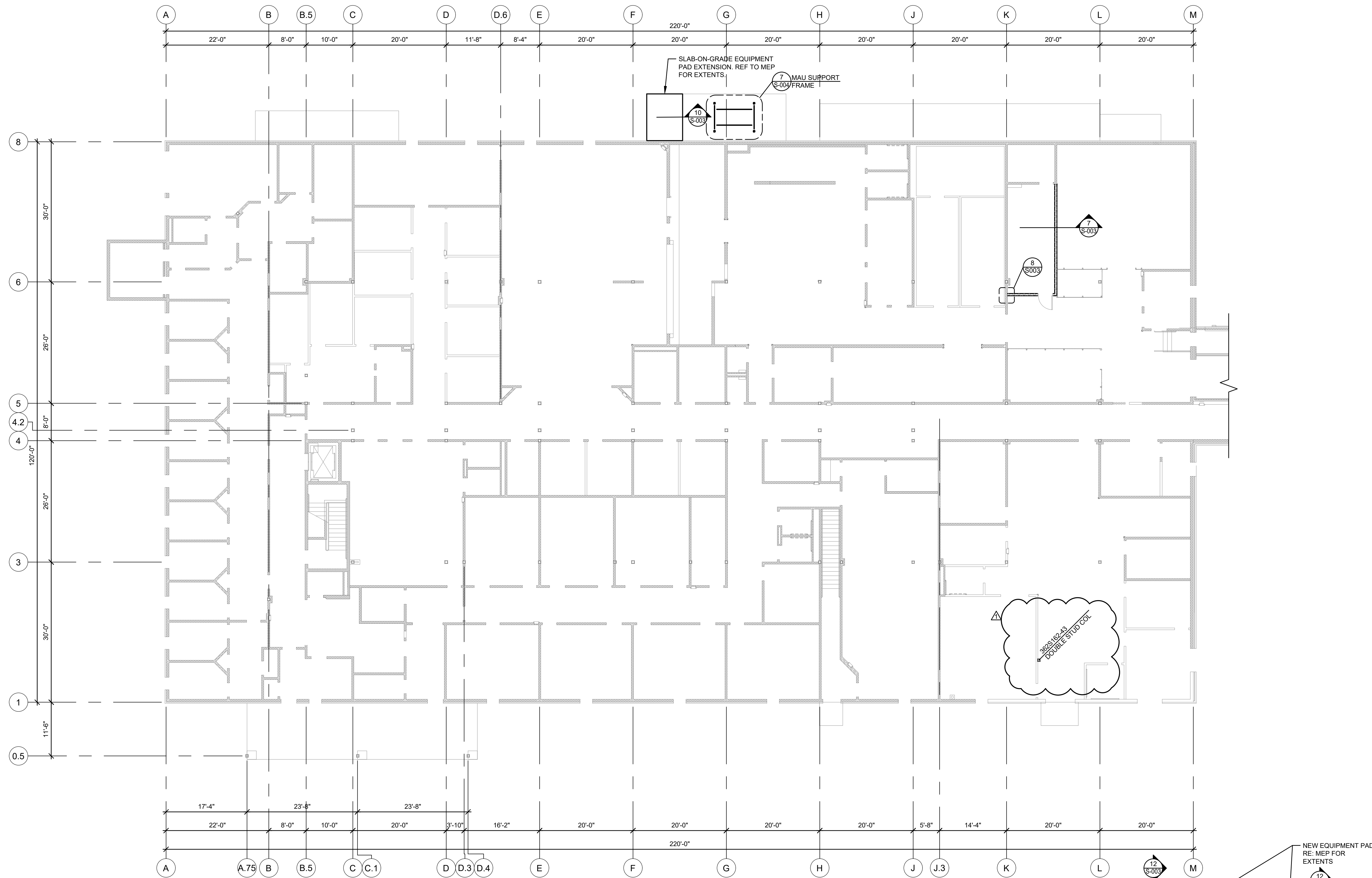
SHEET TITLE:

LEVEL 1
FOUNDATION PLAN

SHEET NUMBER:

S-101

14 OF 111 SHEETS
MARCH 21, 2023

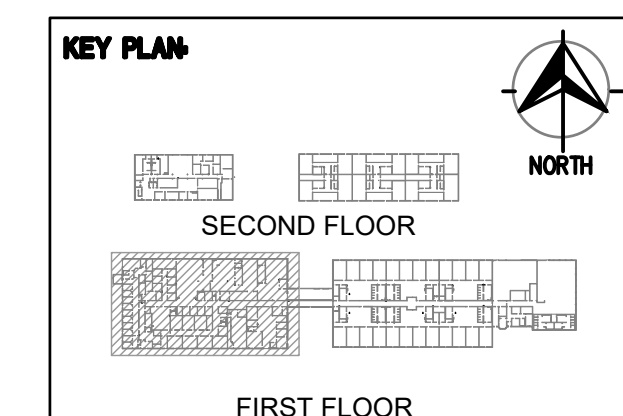
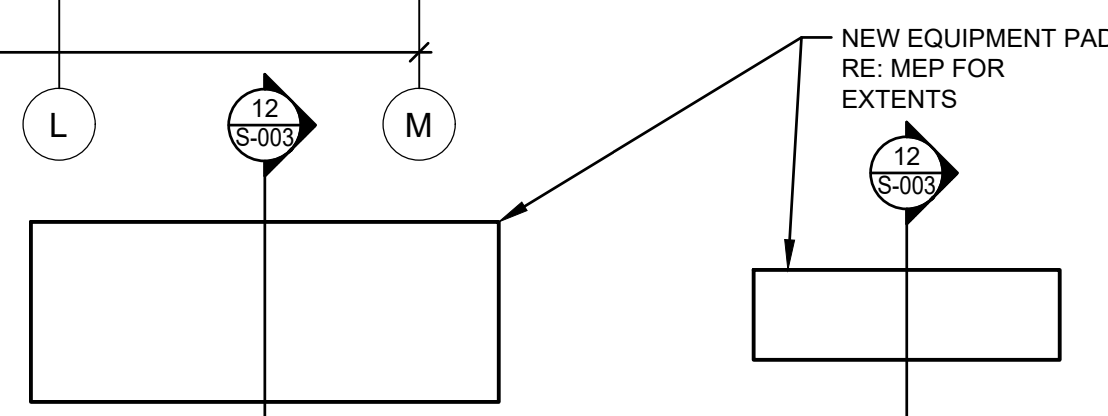
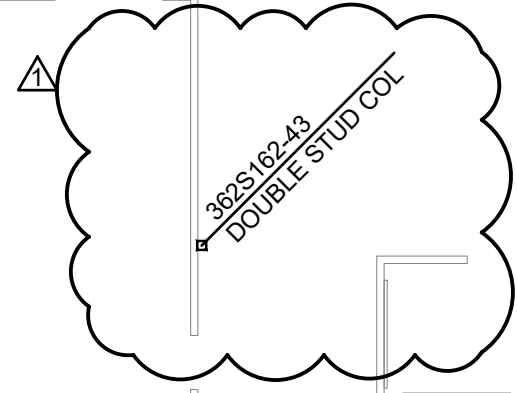


PLAN NOTES:

- CONDITIONS AND DIMENSIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS, FIELD MEASUREMENTS AND FIELD OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- EXISTING SLAB-ON-GRADE IS 4" NORMAL WEIGHT CONCRETE w/ 6x6-6/6 W.W.F. FIELD VERIFY THICKNESS PRIOR TO CONSTRUCTION.
- NEW EXTERIOR SLAB-ON-GRADE SHALL BE 4" NORMAL WEIGHT CONCRETE ON 4" OF COMPACTED CRUSHED ROCK w/ 6x6-W1.4xW1.4 W.W.F.
- T.O. SLAB = 100'-0"

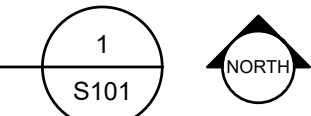
PLAN LEGEND:

- EXISTING CMU WALLS
- NEW 6" CMU WALLS w/ #4 BAR @ 4'-0" O.C. LOCATE EXTENTS PER ARCH/MEP.



LEVEL 1 FOUNDATION PLAN

3/32" = 1'-0"





MEP ENGINEER:



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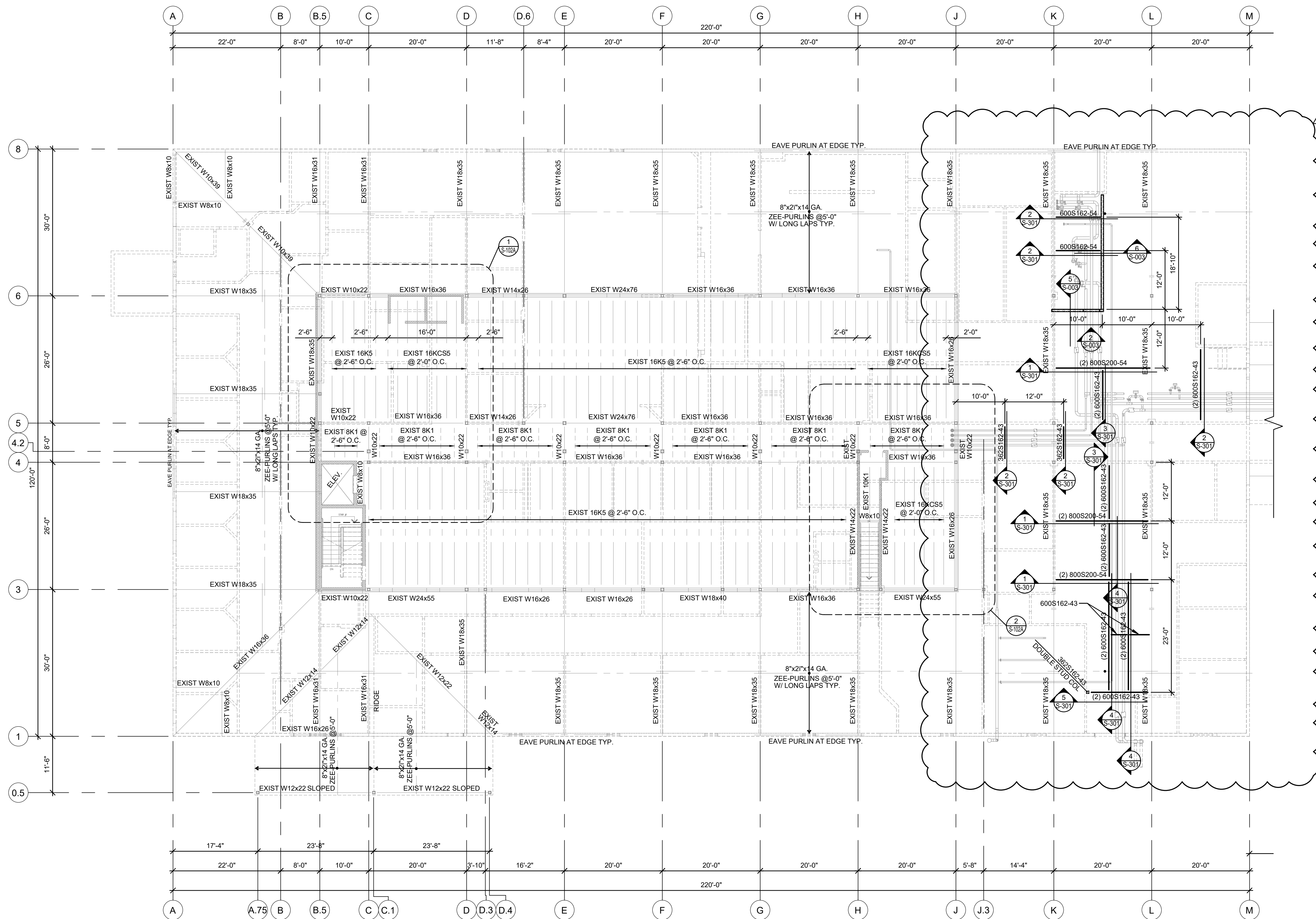
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DRAWN BY: DLH
CHECKED BY: ZRR
DESIGNED BY: _____

SHEET TITLE:
LEVEL 2
FRAMING PLAN

SHEET NUMBER:

S-102

15 OF 111 SHEETS
MARCH 21, 2023

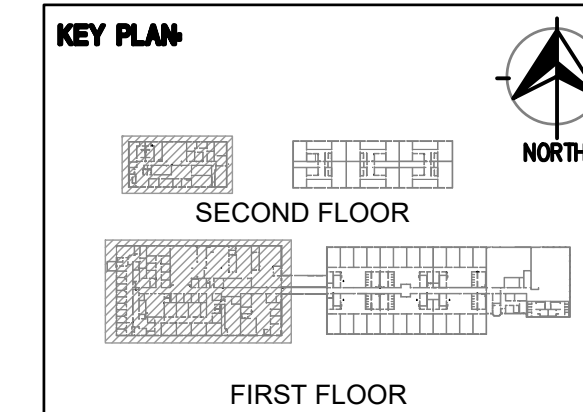
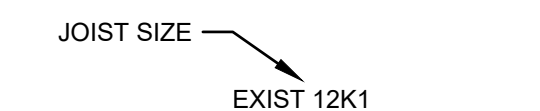
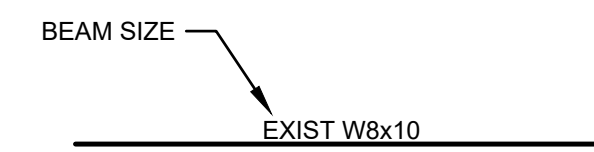


PLAN NOTES:

- CONDITIONS AND DIMENSIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS, FIELD MEASUREMENTS AND FIELD OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- EXISTING SLAB-ON-DECK IS 3 1/2" NORMAL WEIGHT CONCRETE ON 9/16" 25 GAGE FORM DECK.
- T.O. LEVEL 2 SLAB = 112'-0"

PLAN LEGEND:

- EXISTING CMU WALLS
- NEW 6" CMU WALLS W/ #4 BAR @ 4'-0" O.C.



LEVEL 2 FRAMING PLAN
3/32" = 1'-0"



MEP ENGINEER:



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REVISION: ADDENDUM #03

DATE: 07/27/2023

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DATE: _____

ISSUE DATE: 03/21/2023

CAD DWG FILE: _____
DRAWN BY: DLH
CHECKED BY: ZRR
DESIGNED BY: _____

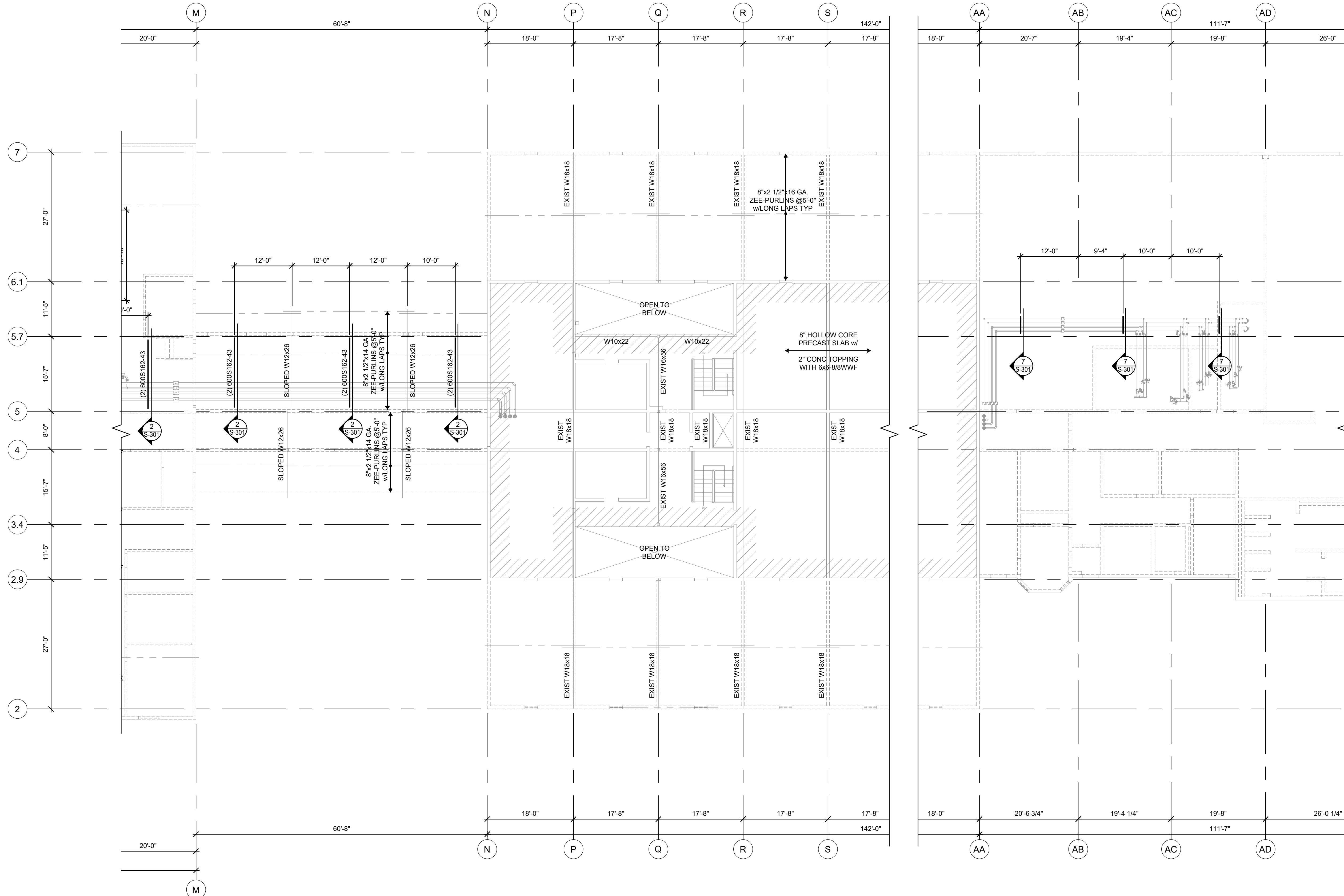
SHEET TITLE:

**LEVEL 2
FRAMING PLAN**

SHEET NUMBER:

S-103

MARCH 21, 2023

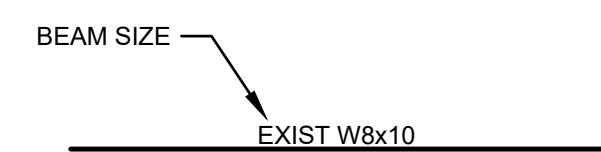


PLAN NOTES:

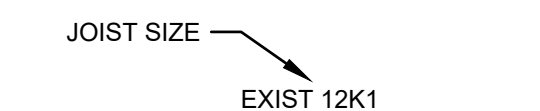
- CONDITIONS AND DIMENSIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS, FIELD MEASUREMENTS AND FIELD OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
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- T.O. LEVEL 2 SLAB = 112'-0"

PLAN LEGEND:

- EXISTING CMU WALLS
- NEW 6" CMU WALLS w/ #4 BAR @ 4'-0" O.C.



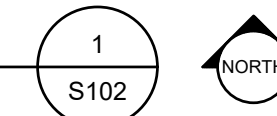
BEAM LEGEND



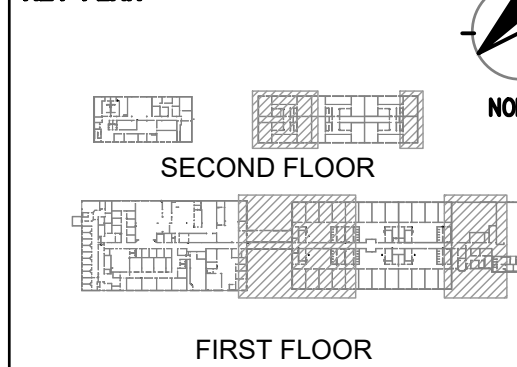
JOIST LEGEND

LEVEL 2 FRAMING PLAN

3/32" = 1'-0"



KEY PLAN



**LEVEL 2
FRAMING PLAN**

SHEET NUMBER:

S-103

MARCH 21, 2023



MEP ENGINEER:



InSite Group
DEDICATION. DESIRE. INTEGRITY.
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LEE'S SUMMIT, MO 64064 Ph: (816) 228-3377

PMA Engineering
6717 Shawnee Mission Pkwy
Suite 100, Overland Park, KS 66202
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(PROJECT # P23007)

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CORPORATION
d/b/a PMA ENGINEERING
MISSOURI STATE CERTIFICATE
OF AUTHORITY # 001400

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

PROJECT TITLE:
HVAC & BAS UPGRADE

TRANSITION CENTER
OF KANSAS CITY

651 MULBERRY STREET
KANSAS CITY, MISSOURI

PROJECT # C1904-01
SITE # 7027
FACILITY # 9327027001

REVISION: Δ ADDENDUM #03
DATE: 07/27/2023
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 03/21/2023

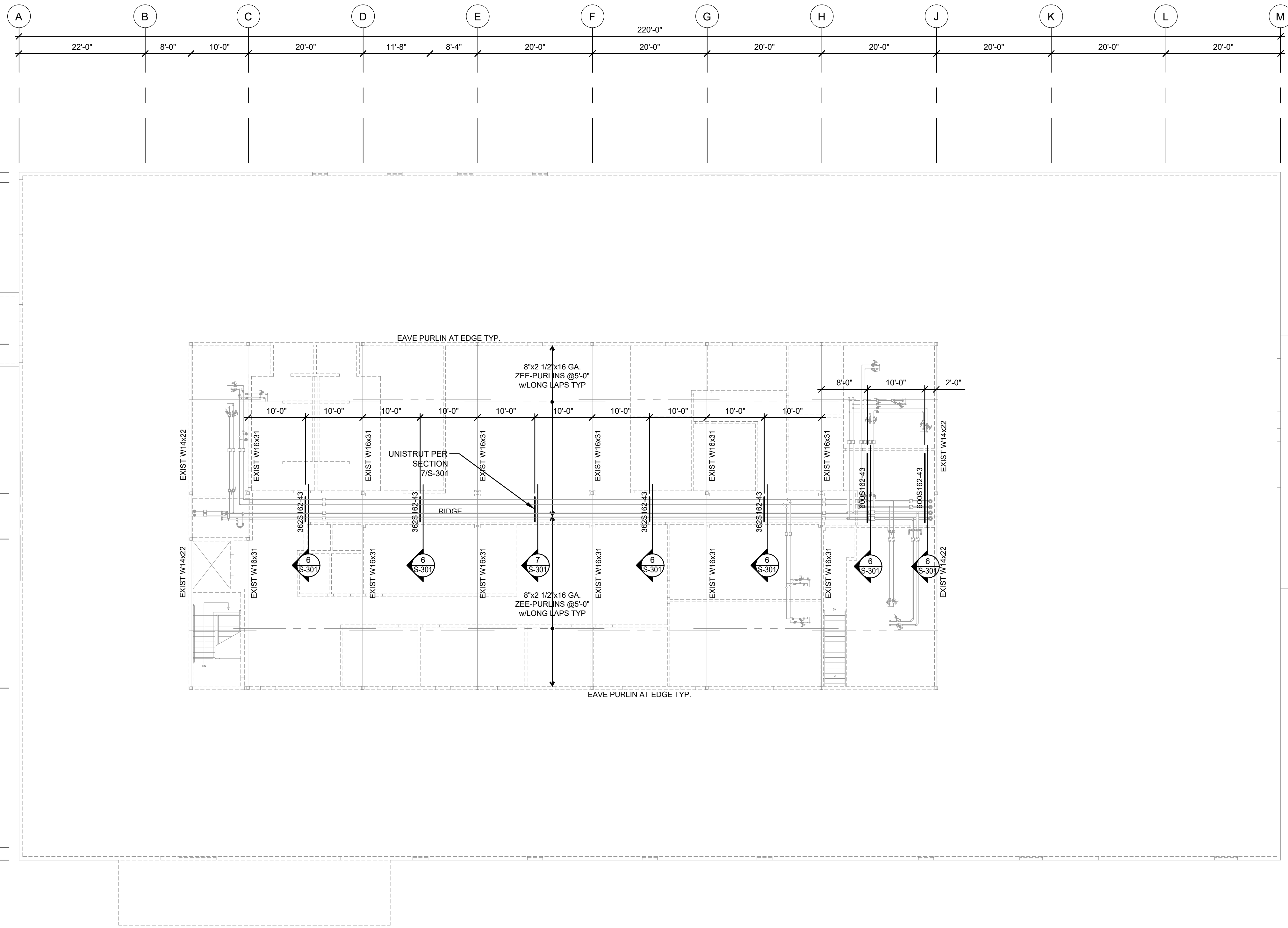
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DRAWN BY: DLH
CHECKED BY: ZRR
DESIGNED BY: _____

SHEET TITLE:
**HIGH ROOF
FRAMING PLAN**

SHEET NUMBER:

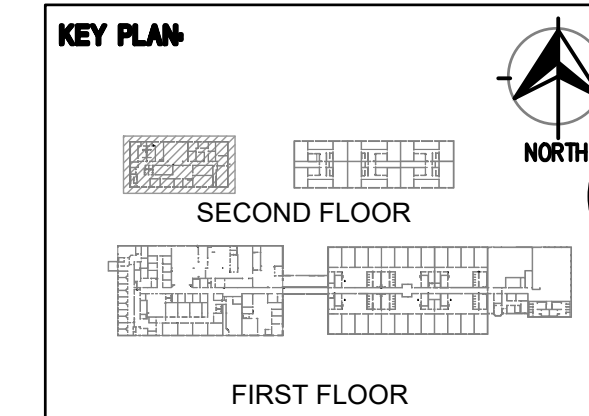
S-201

MARCH 21, 2023



ROOF FRAMING NOTES:

- CONDITIONS AND DIMENSIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS, FIELD MEASUREMENTS AND FIELD OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.





MEP ENGINEER:



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PMA Engineering
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www.pmaengineering.com
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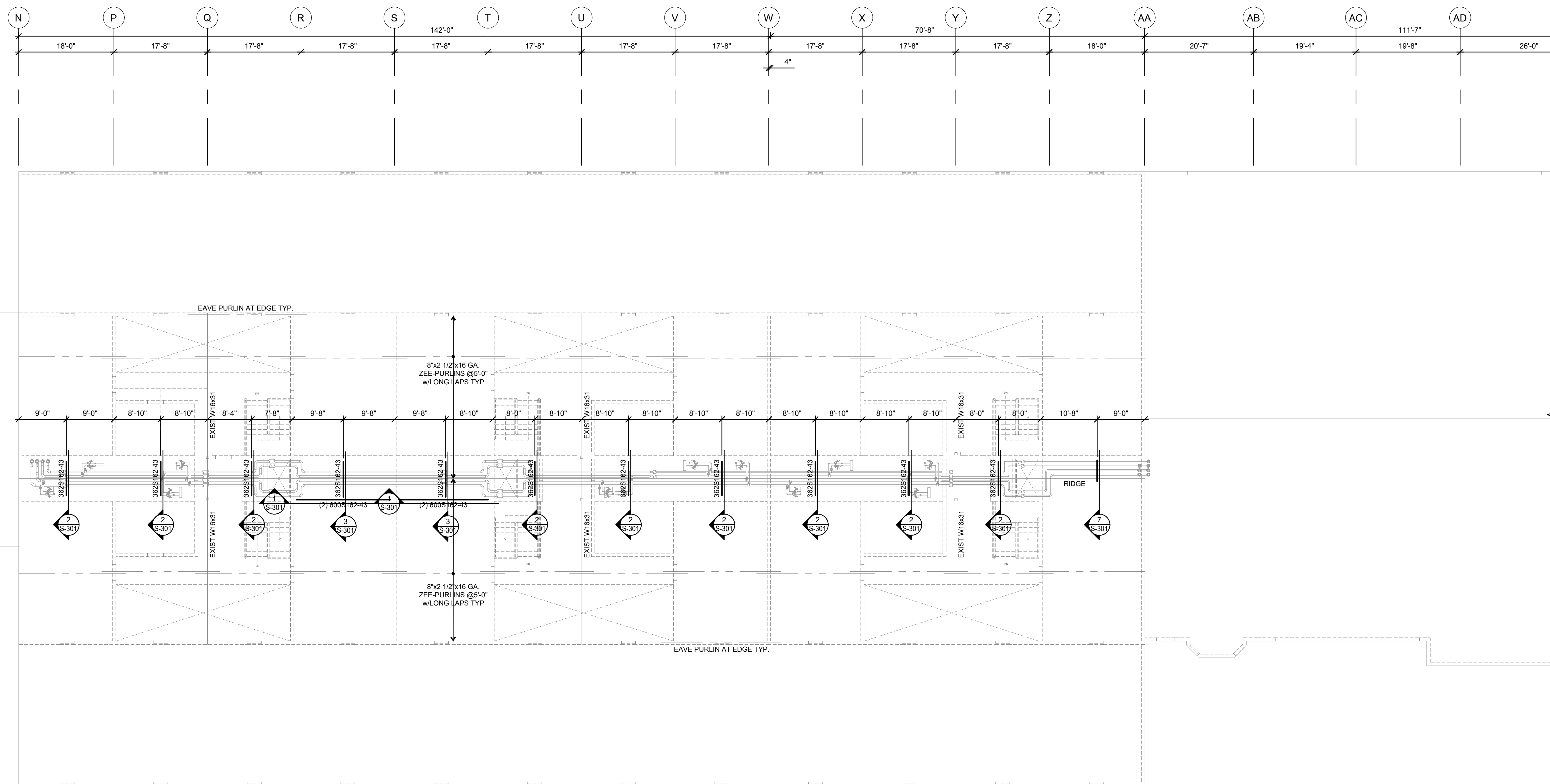
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**HIGH ROOF
FRAMING PLAN**

SHEET NUMBER:

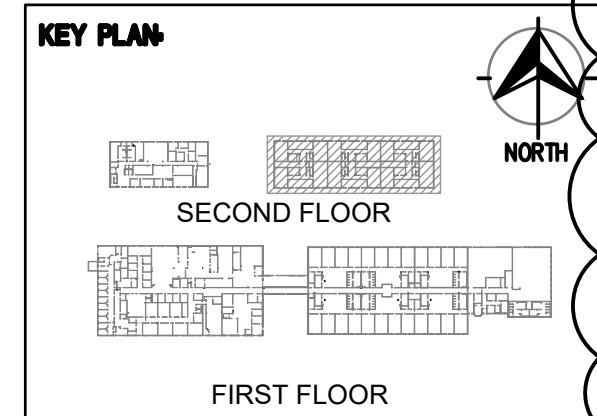
S-202

MARCH 21, 2023



ROOF FRAMING NOTES:

- CONDITIONS AND DIMENSIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS, FIELD MEASUREMENTS AND FIELD OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.





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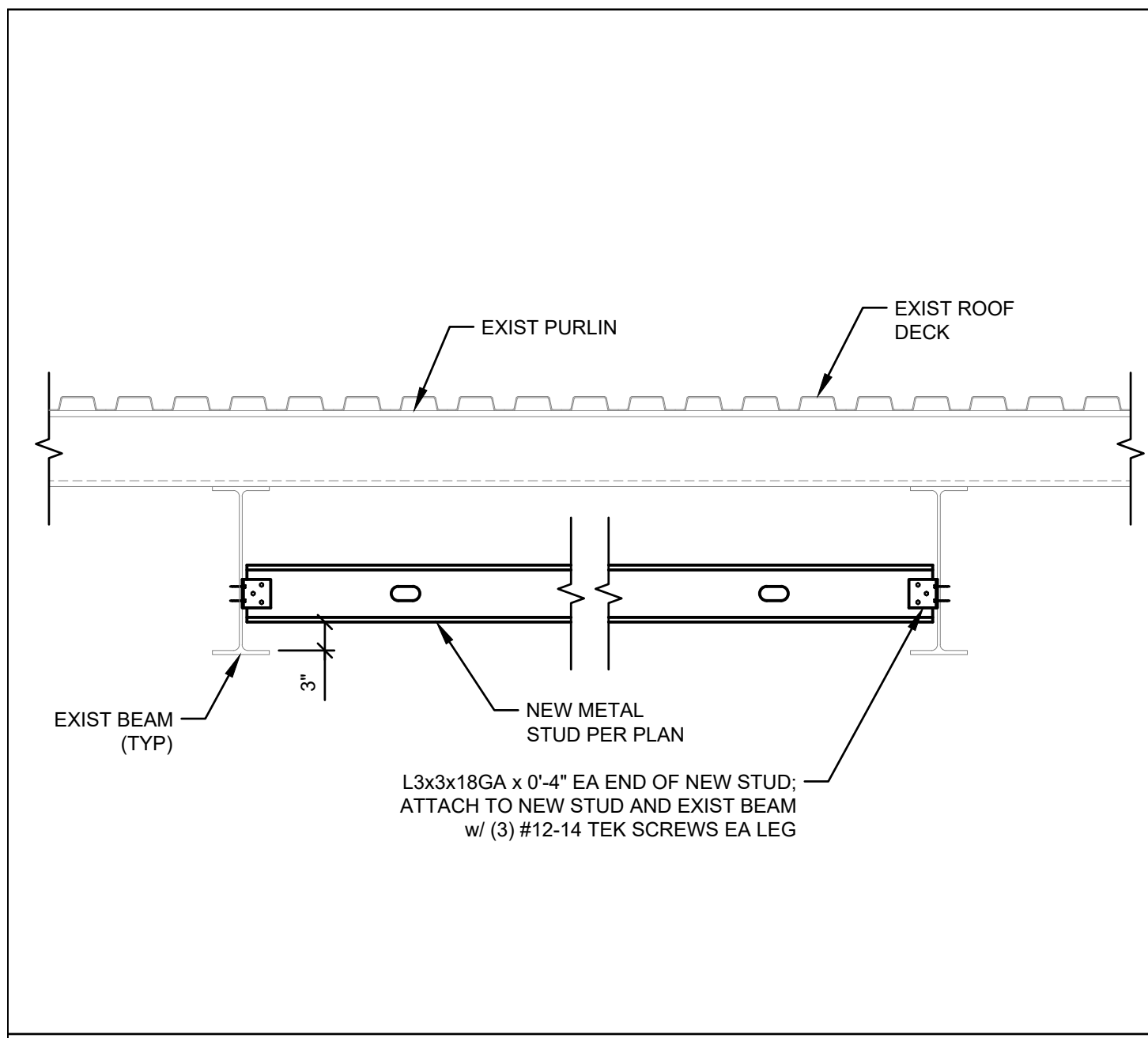
SHEET TITLE:

PIPE SUPPORT
DETAILS

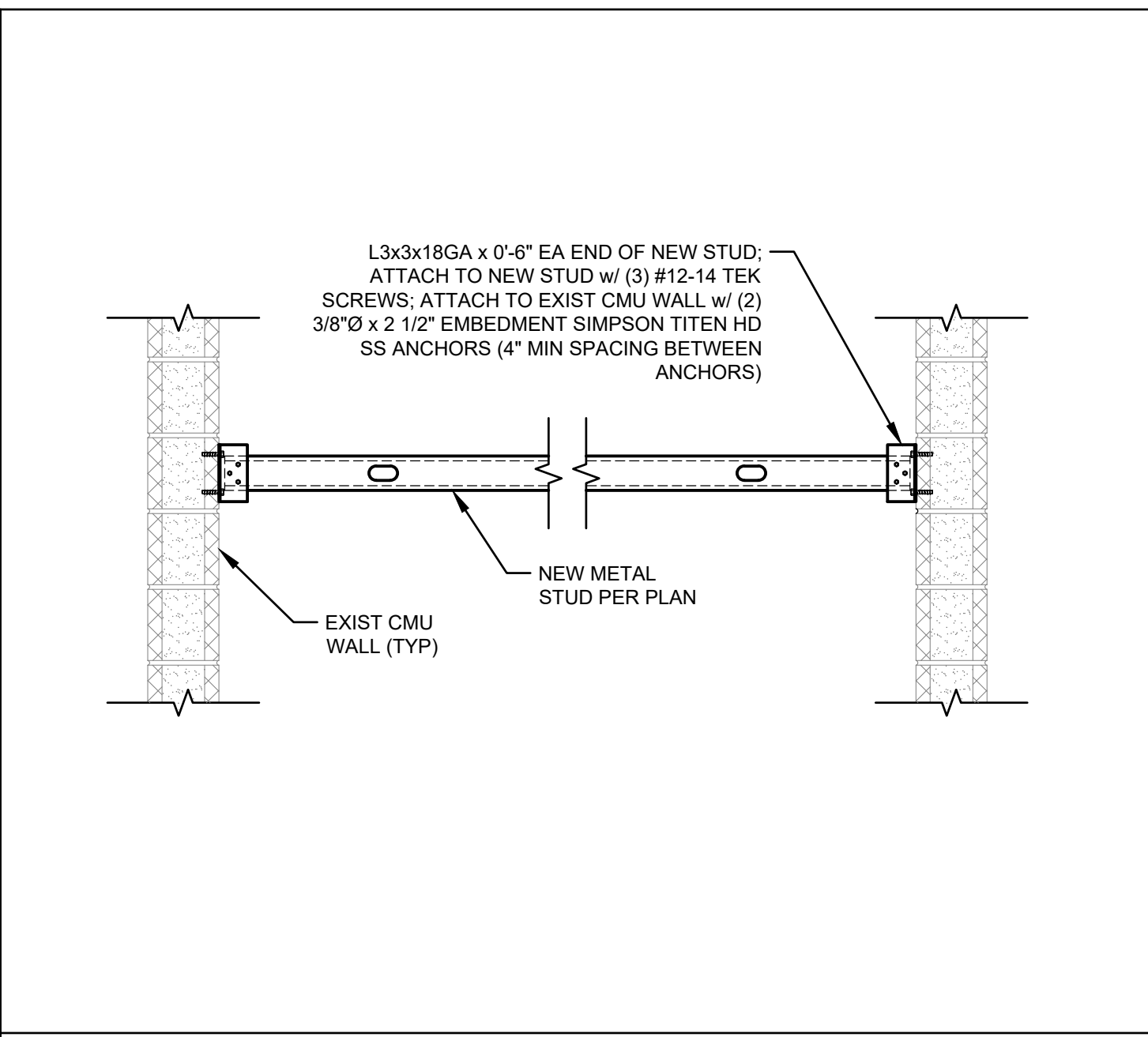
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S-301

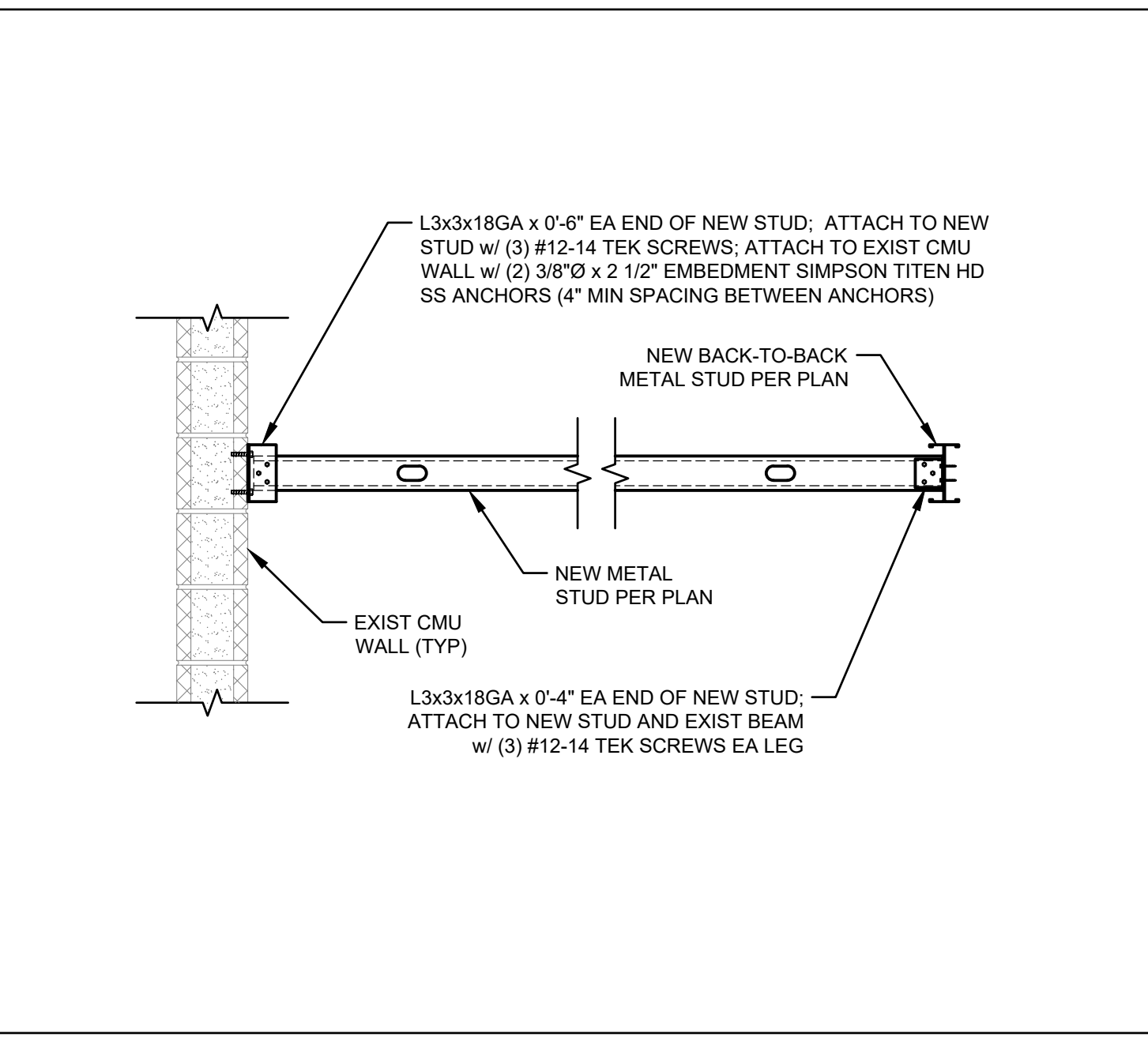
MARCH 21, 2023



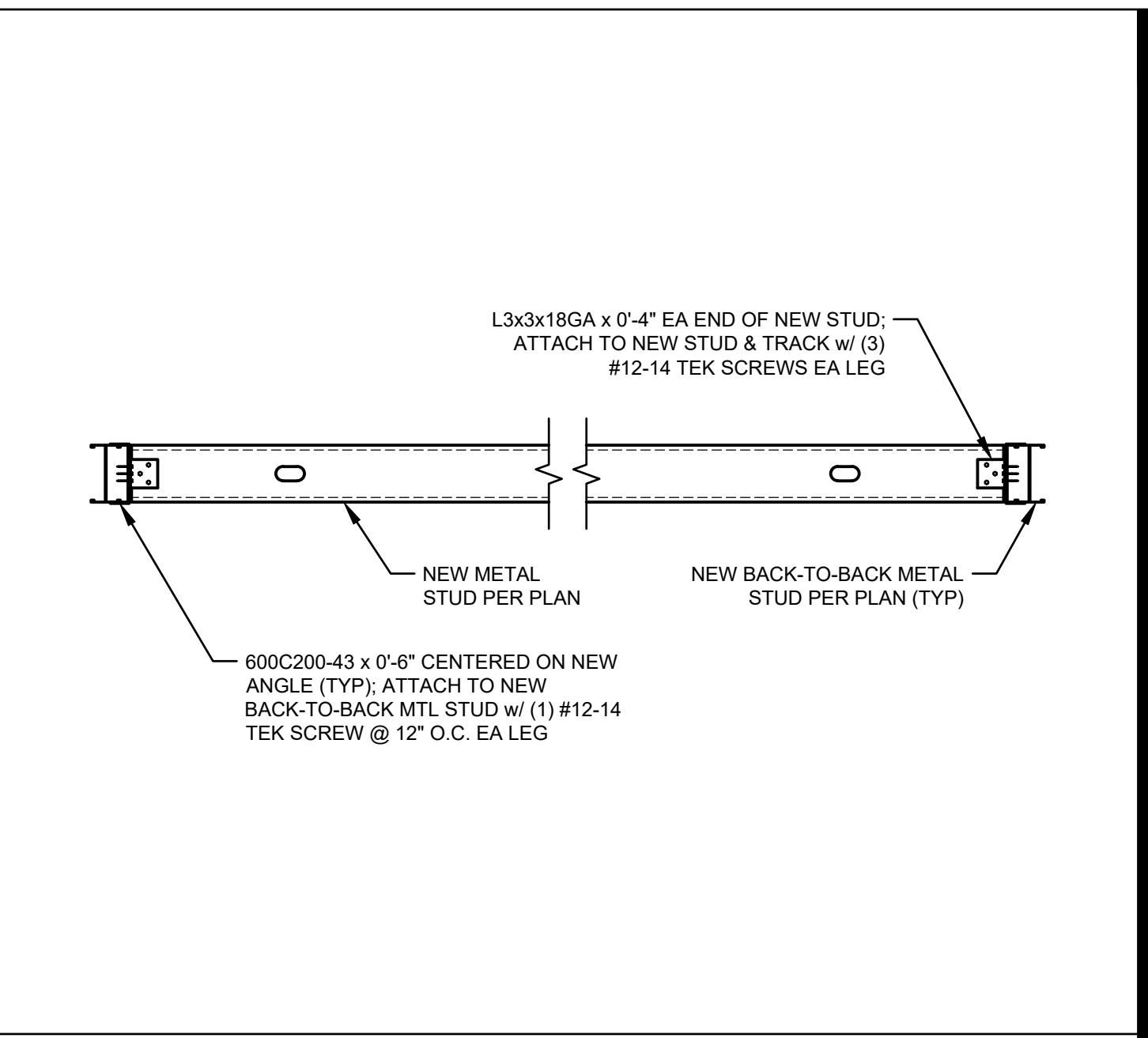
PIPE SUPPORT SECTION @ EXISTING BEAMS 1
3/4" = 1'-0" S-301



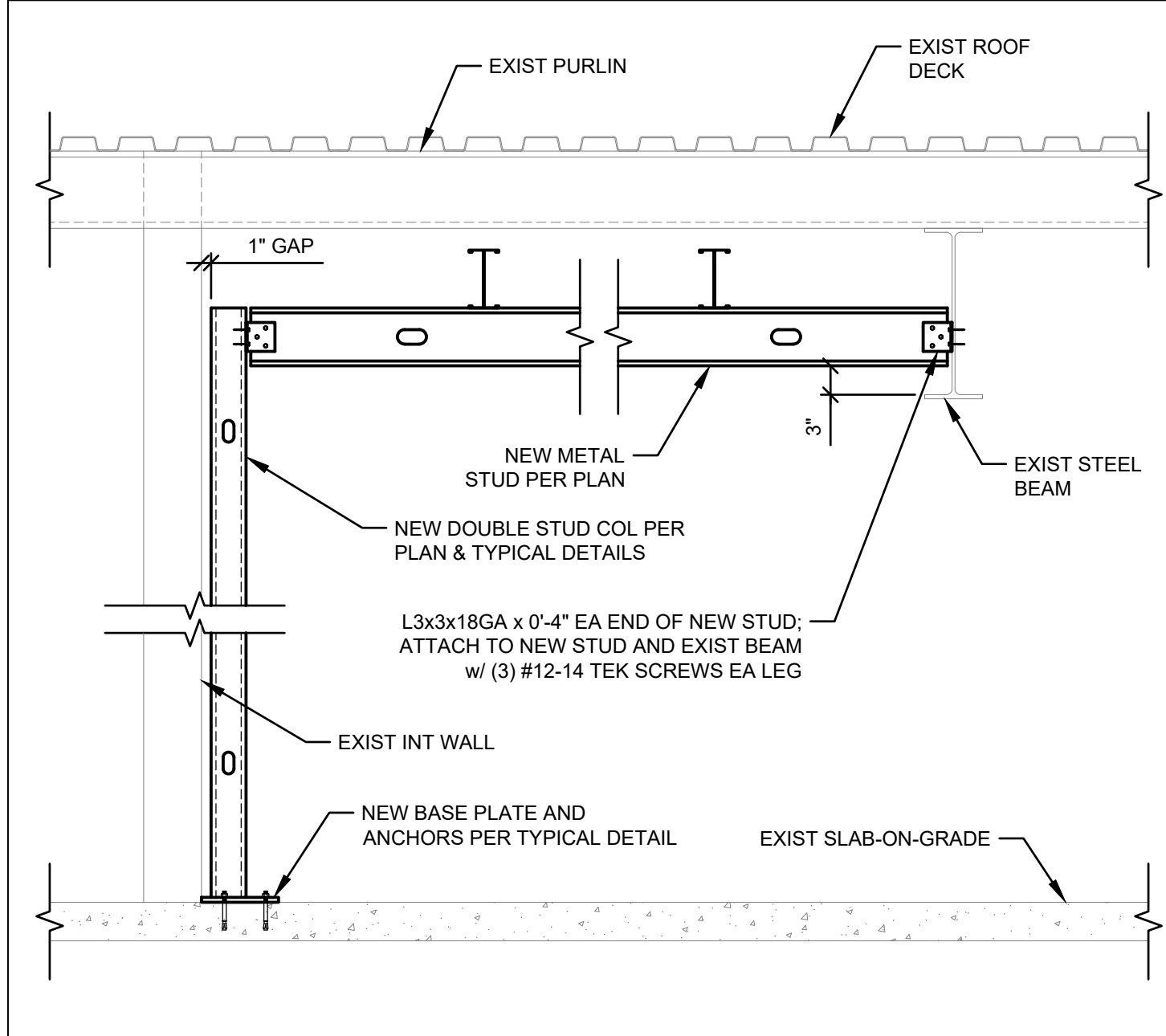
PIPE SUPPORT SECTION @ EXISTING CMU WALLS 2
3/4" = 1'-0" S-301



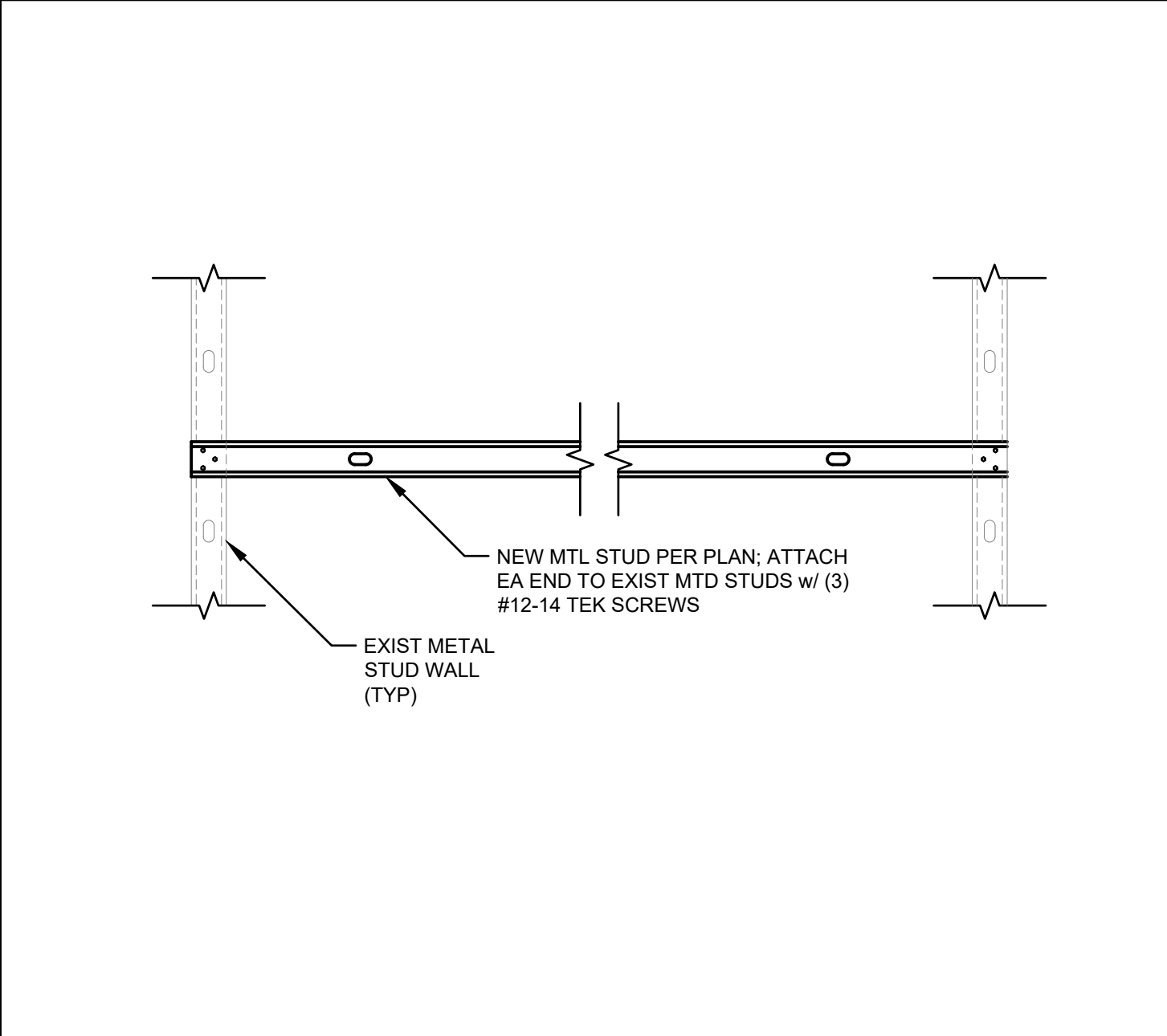
PIPE SUPPORT SECTION @ EXISTING CMU WALL 3
3/4" = 1'-0" S-301



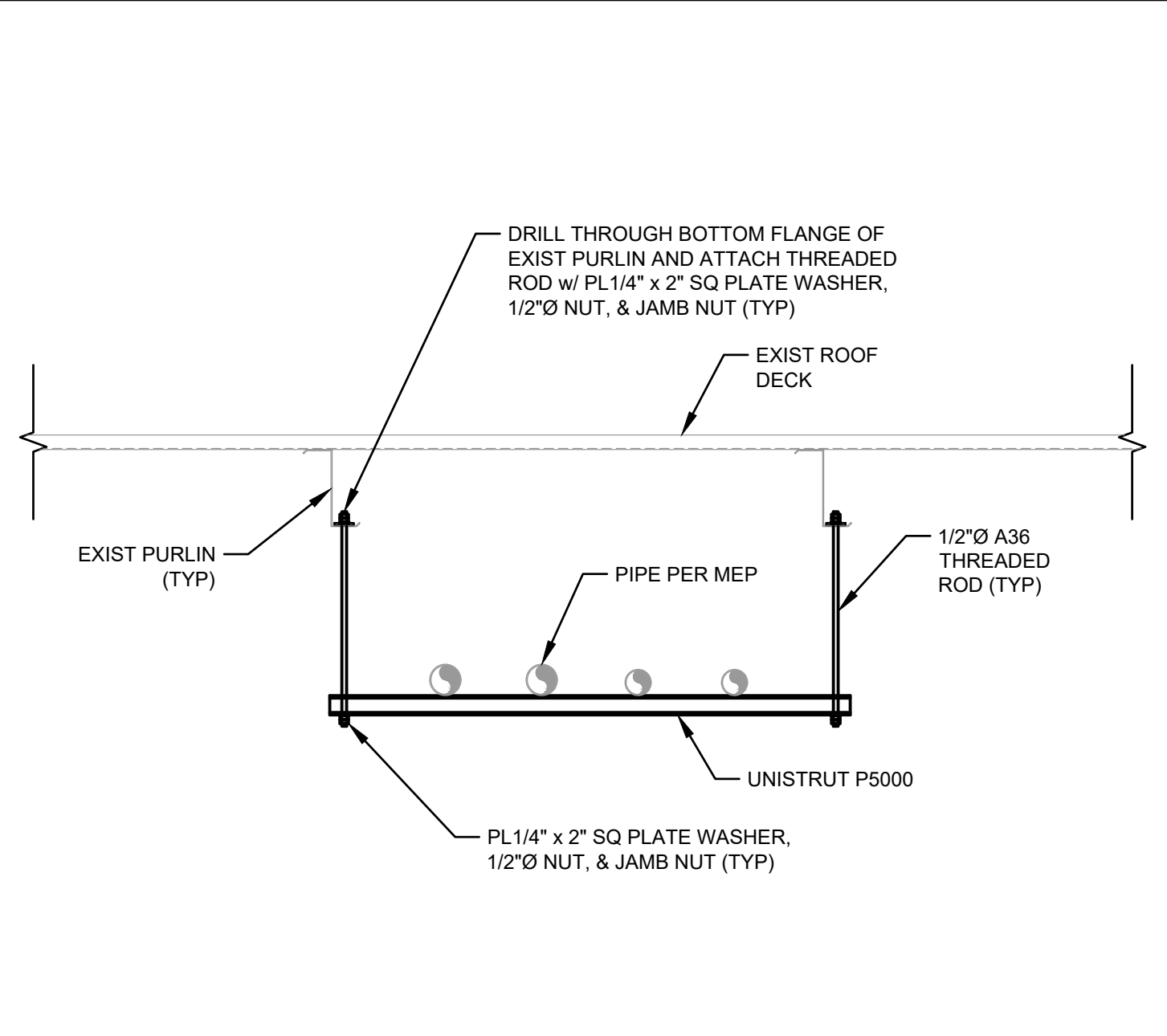
PIPE SUPPORT SECTION 4
3/4" = 1'-0" S-301



PIPE SUPPORT SECTION @ EXISTING BEAM 5
3/4" = 1'-0" S-301



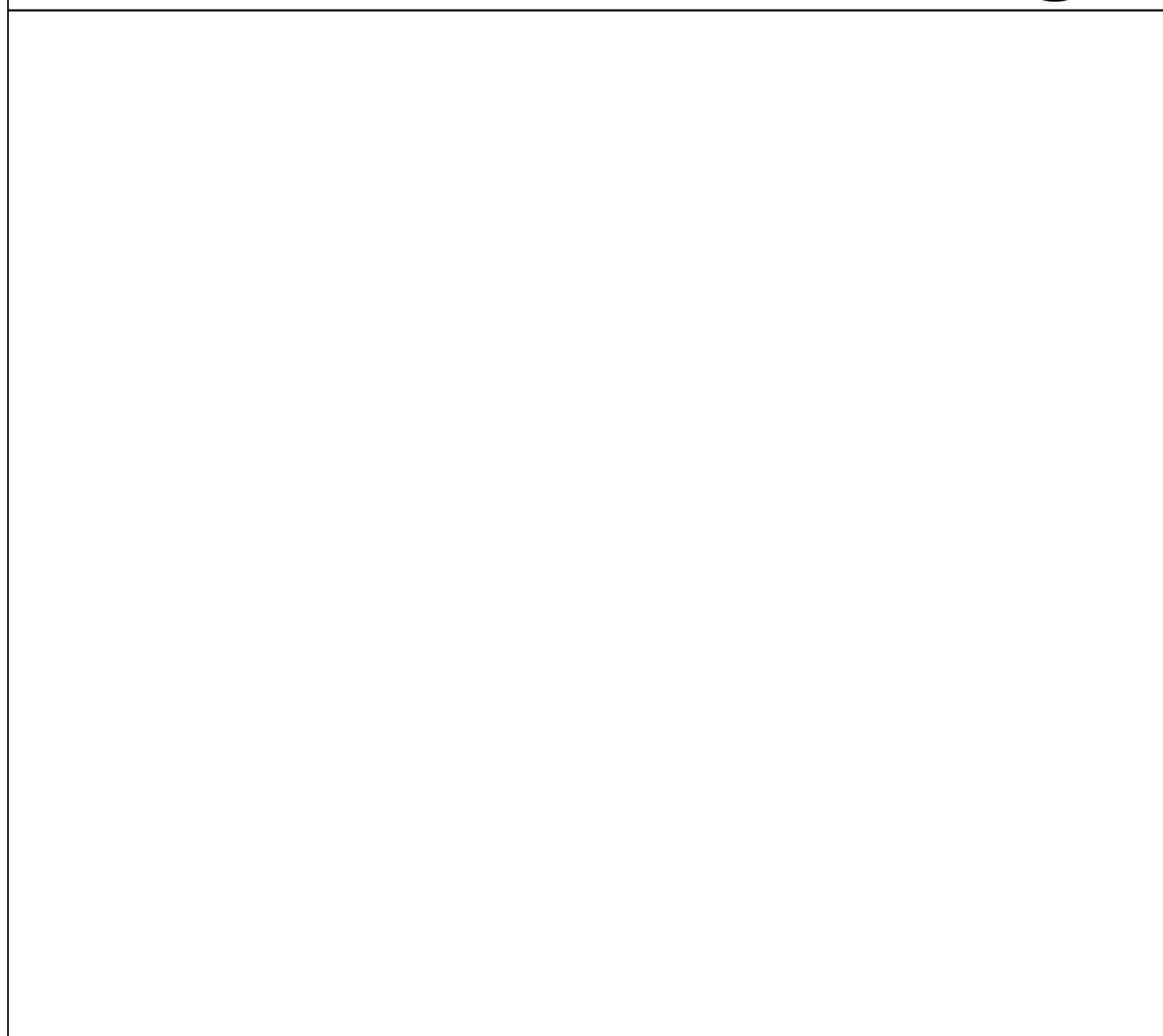
PIPE SUPPORT SECTION @ EXIST MTL STUD WALLS 6
3/4" = 1'-0" S-301



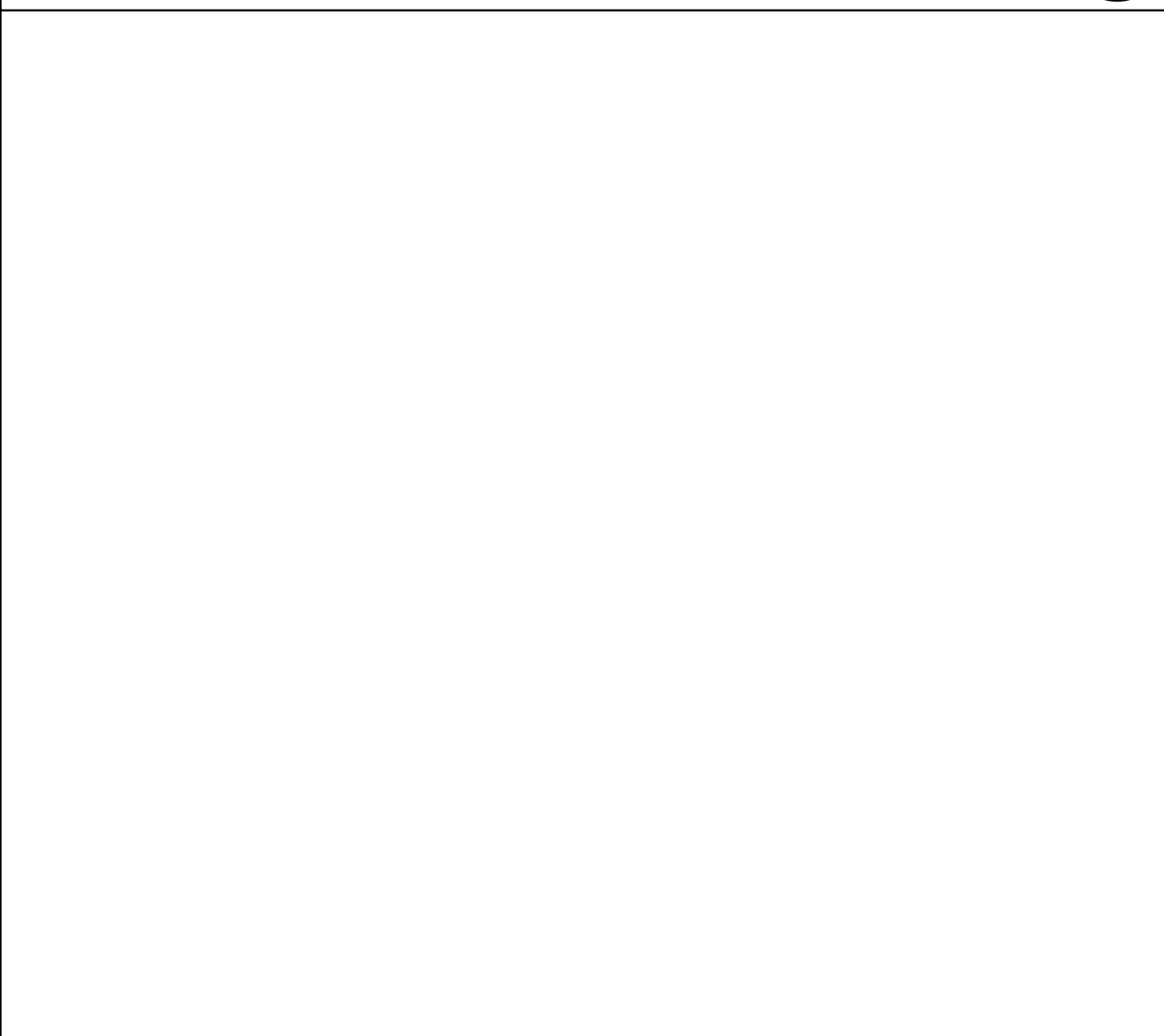
PIPE SUPPORT SECTION 7
3/4" = 1'-0" S-301



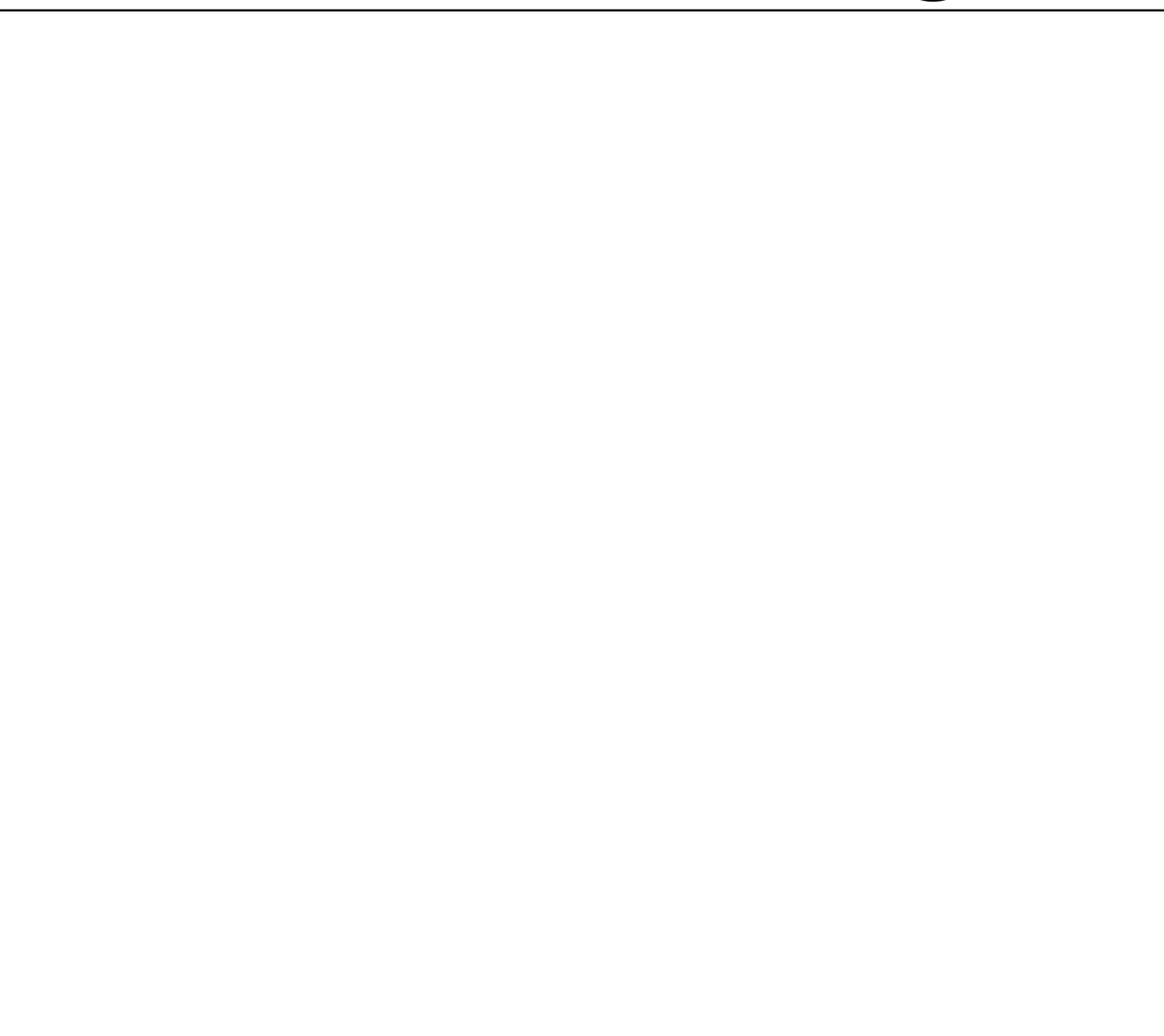
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S-301



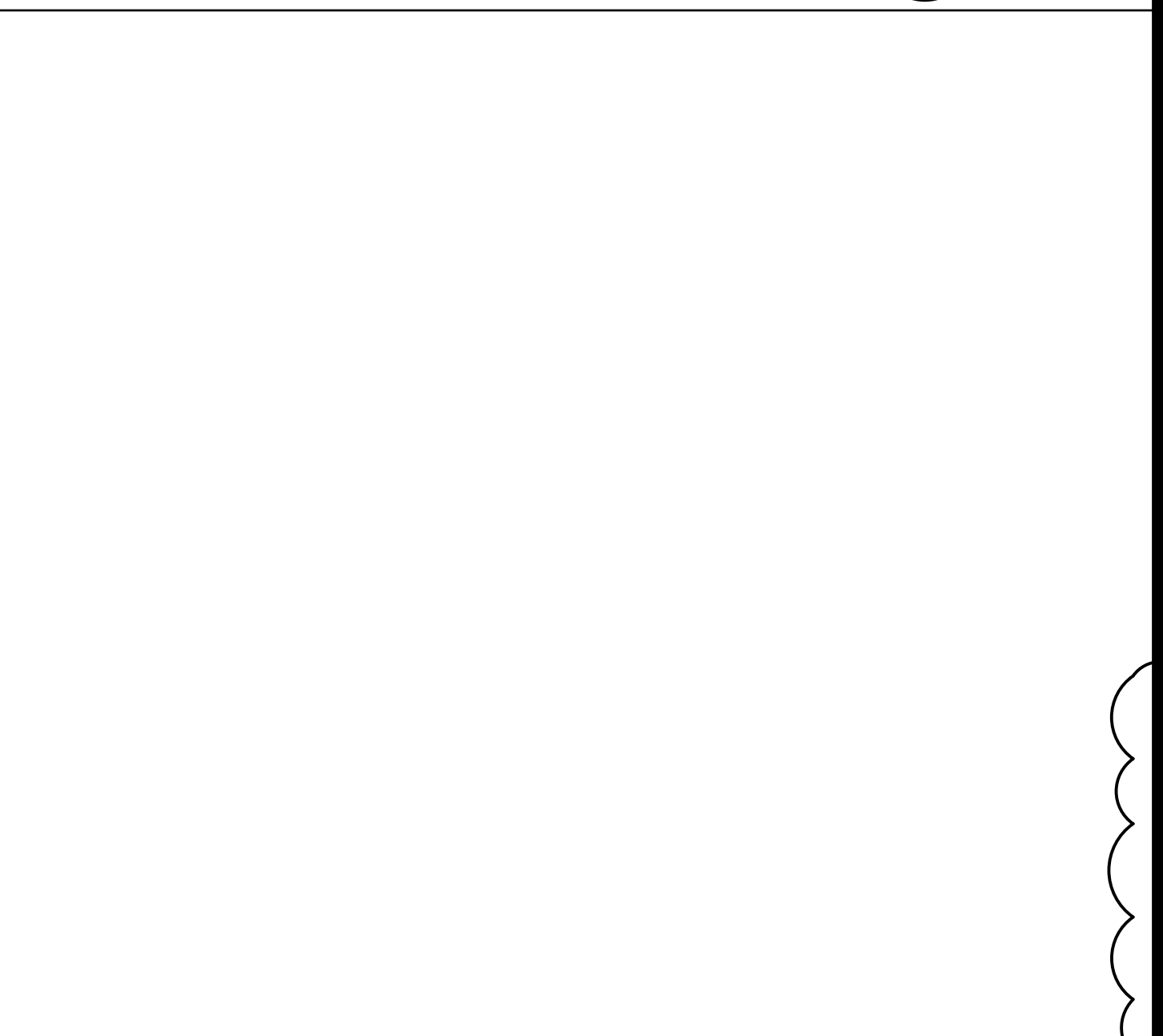
NOT USED 9
S-301



NOT USED 10
S-301



NOT USED 11
S-301



NOT USED 12
S-301



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SHEET TITLE:
LEVEL 1 OVERALL
MECH PIPING
NEW WORK PLAN

SHEET NUMBER:

MP101B

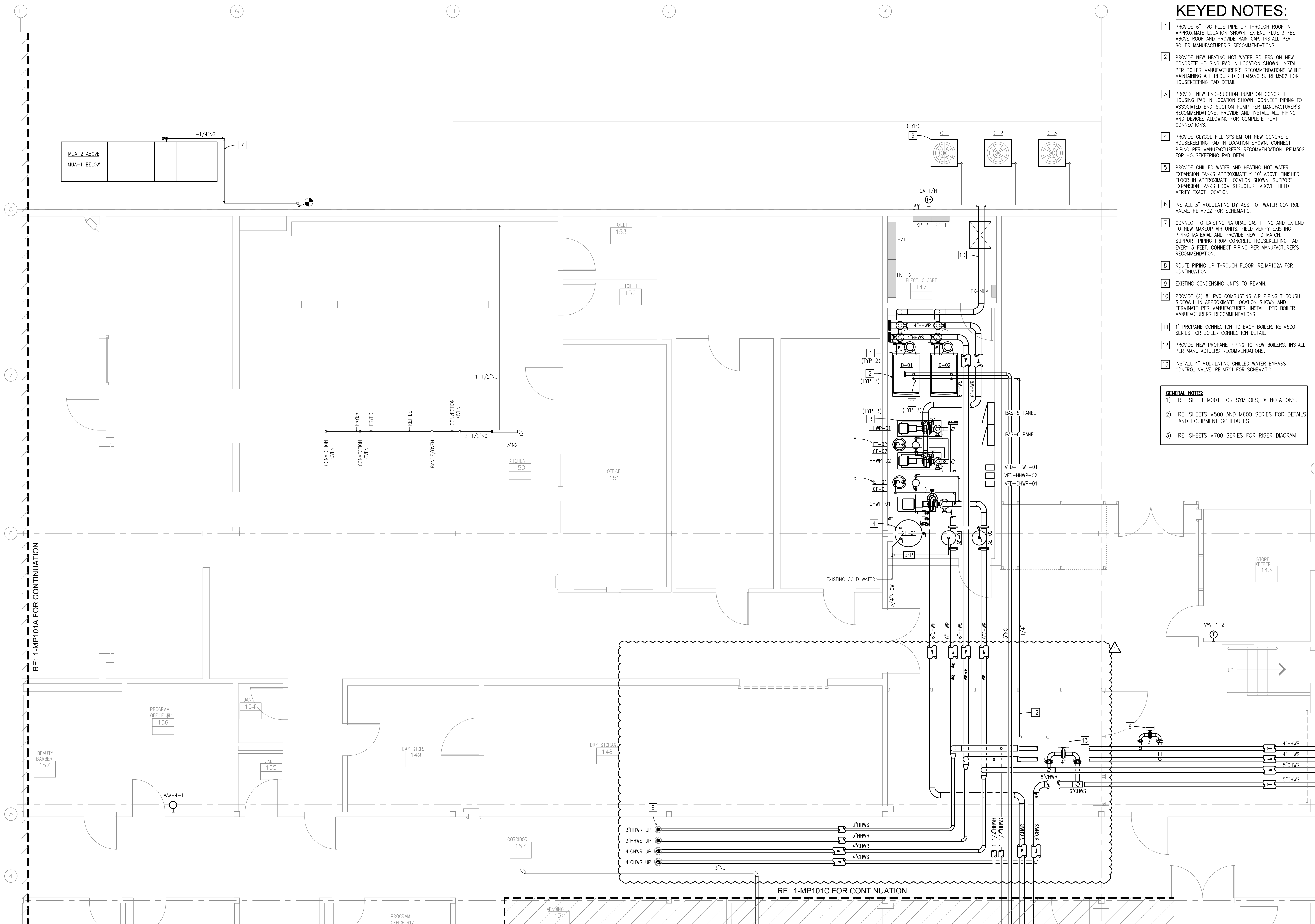
36 OF 111 SHEETS
MARCH 21, 2023

KEYED NOTES:

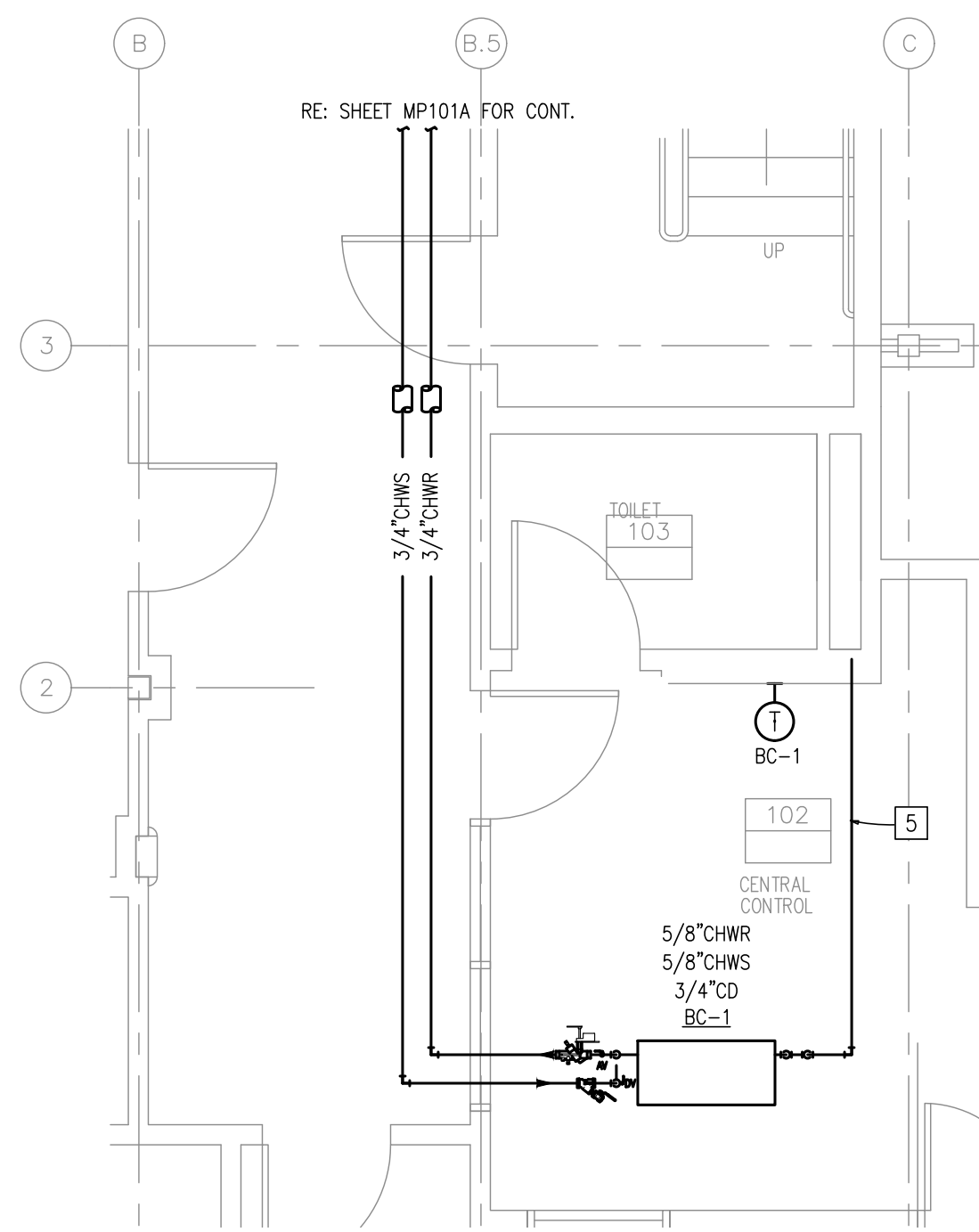
- 1 PROVIDE 6" PVC FLUE PIPE UP THROUGH ROOF IN APPROXIMATE LOCATION SHOWN. EXTEND FLUE 3 FEET ABOVE ROOF AND PROVIDE RAIN CAP. INSTALL PER BOILER MANUFACTURER'S RECOMMENDATIONS.
- 2 PROVIDE NEW HEATING HOT WATER BOILERS ON NEW CONCRETE HOUSING PAD IN LOCATION SHOWN. INSTALL PER BOILER MANUFACTURER'S RECOMMENDATIONS WHILE MAINTAINING ALL REQUIRED CLEARANCES. RE:M502 FOR HOUSEKEEPING PAD DETAIL.
- 3 PROVIDE NEW END-SUCTION PUMP ON CONCRETE HOUSING PAD IN LOCATION SHOWN. CONNECT PIPING TO ASSOCIATED END-SUCTION PUMP PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL ALL PIPING AND DEVICES ALLOWING FOR COMPLETE PUMP CONNECTIONS.
- 4 PROVIDE GLYCOL FILL SYSTEM ON NEW CONCRETE HOUSEKEEPING PAD IN LOCATION SHOWN. CONNECT PIPING PER MANUFACTURER'S RECOMMENDATION. RE:M502 FOR HOUSEKEEPING PAD DETAIL.
- 5 PROVIDE CHILLED WATER AND HEATING HOT WATER EXPANSION TANKS APPROXIMATELY 10' ABOVE FINISHED FLOOR IN APPROXIMATE LOCATION SHOWN. SUPPORT EXPANSION TANKS FROM STRUCTURE ABOVE. FIELD VERIFY EXACT LOCATION.
- 6 INSTALL 3" MODULATING BYPASS HOT WATER CONTROL VALVE. RE:M702 FOR SCHEMATIC.
- 7 CONNECT TO EXISTING NATURAL GAS PIPING AND EXTEND TO NEW MAKEUP AIR UNITS. FIELD VERIFY EXISTING PIPING MATERIAL AND PROVIDE NEW TO MATCH. SUPPORT PIPING FROM CONCRETE HOUSEKEEPING PAD EVERY 5 FEET. CONNECT PIPING PER MANUFACTURER'S RECOMMENDATION.
- 8 ROUTE PIPING UP THROUGH FLOOR. RE:MP102A FOR CONTINUATION.
- 9 EXISTING CONDENSING UNITS TO REMAIN.
- 10 PROVIDE (2) 8" PVC COMBUSTING AIR PIPING THROUGH SIDEWALL IN APPROXIMATE LOCATION SHOWN AND TERMINATE PER MANUFACTURER. INSTALL PER BOILER MANUFACTURER'S RECOMMENDATIONS.
- 11 1" PROPANE CONNECTION TO EACH BOILER. RE:M500 SERIES FOR BOILER CONNECTION DETAIL.
- 12 PROVIDE NEW PROPANE PIPING TO NEW BOILERS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 13 INSTALL 4" MODULATING CHILLED WATER BYPASS CONTROL VALVE. RE:M701 FOR SCHEMATIC.

GENERAL NOTES:

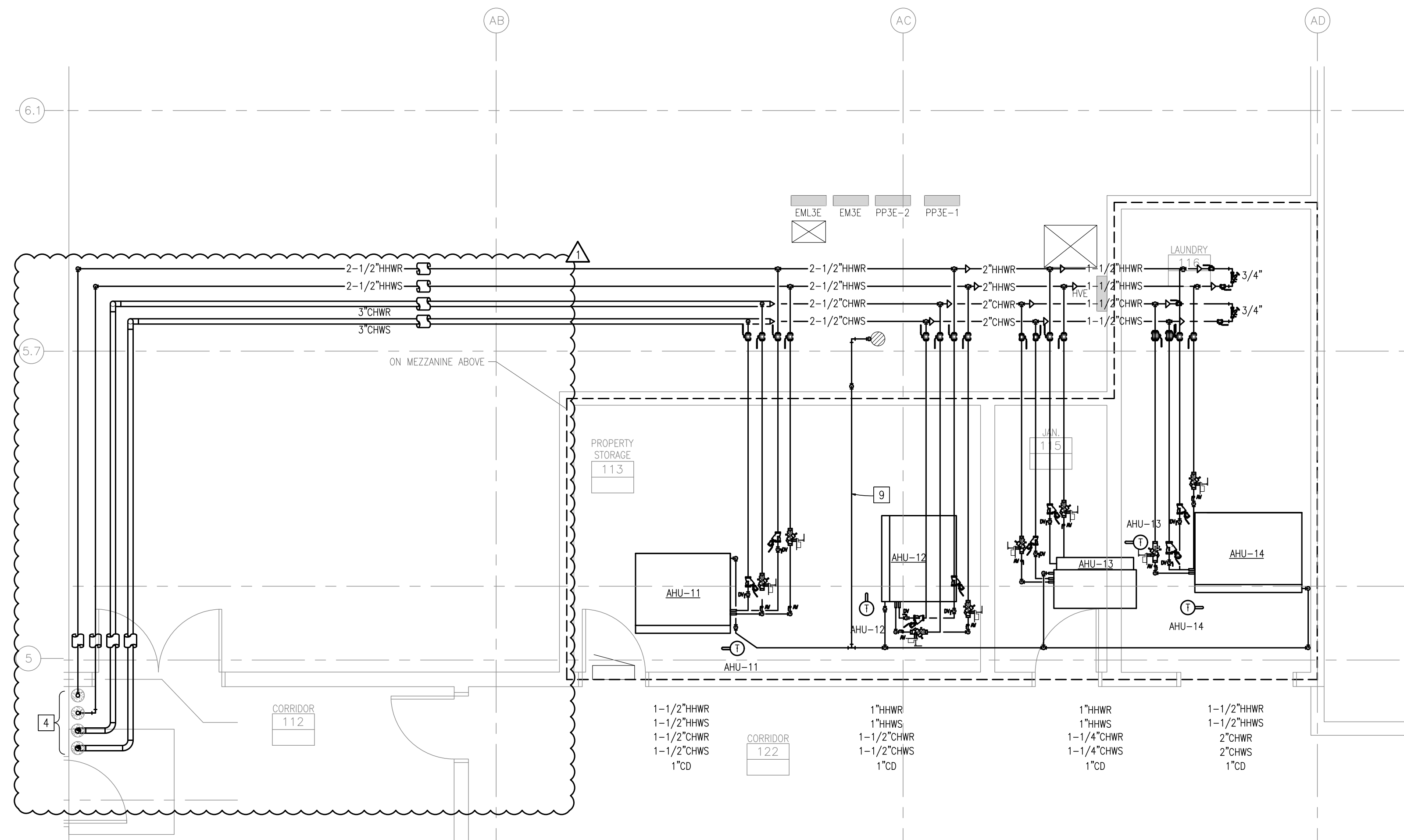
- 1) RE: SHEET M001 FOR SYMBOLS, & NOTATIONS.
- 2) RE: SHEETS M500 AND M600 SERIES FOR DETAILS AND EQUIPMENT SCHEDULES.
- 3) RE: SHEETS M700 SERIES FOR RISER DIAGRAM



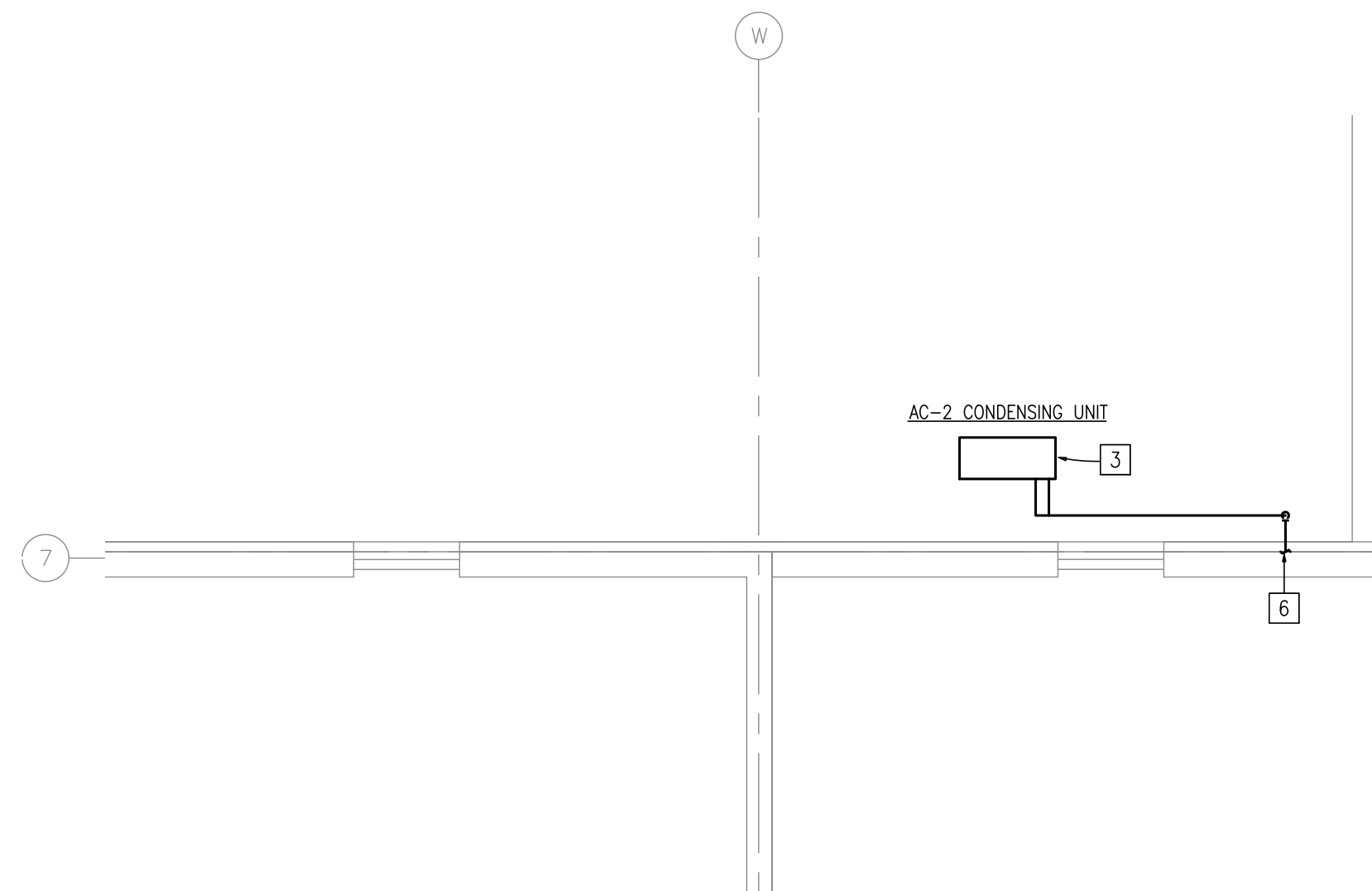
1 LEVEL 1 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/8" = 1'-0"



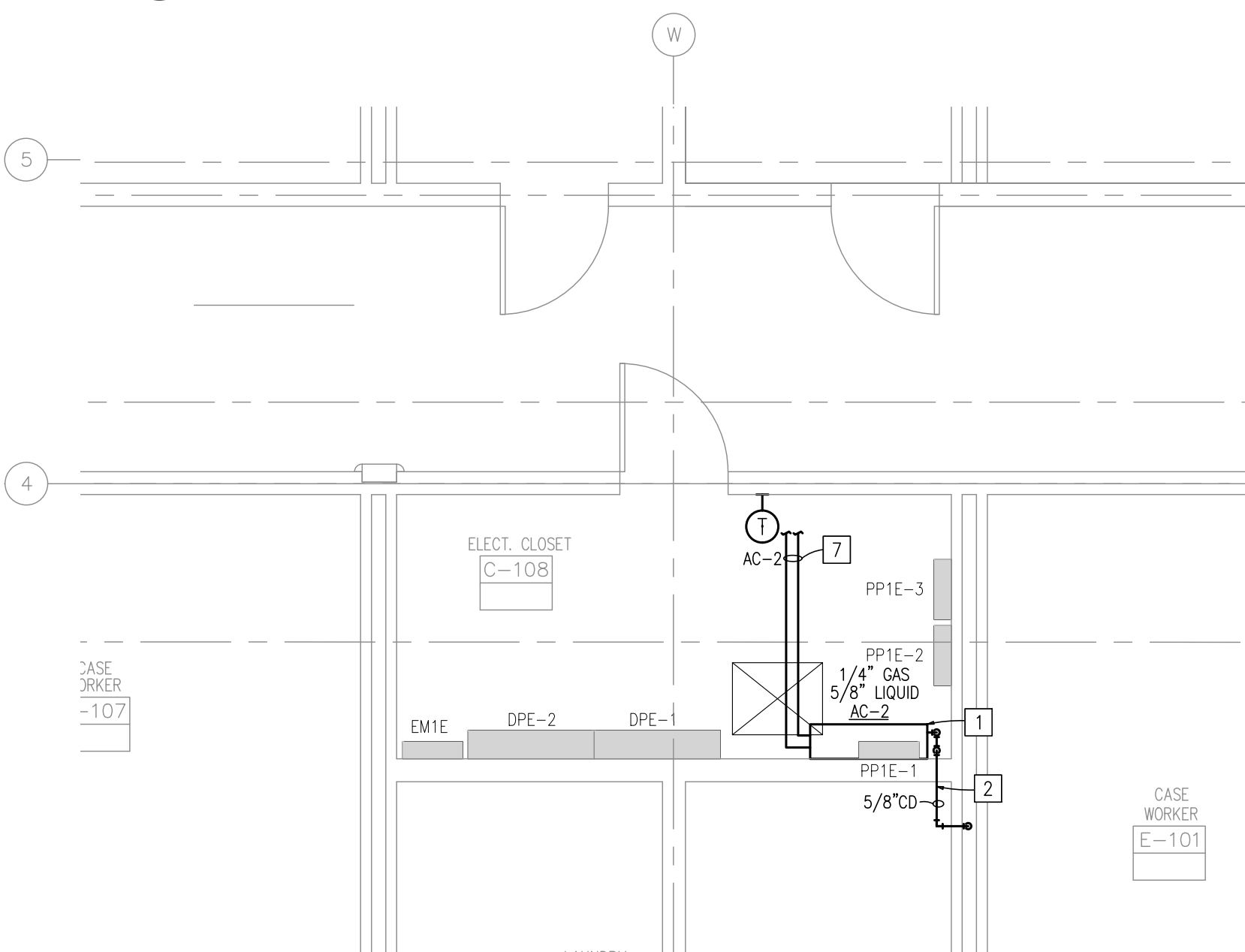
1 LEVEL 1 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"



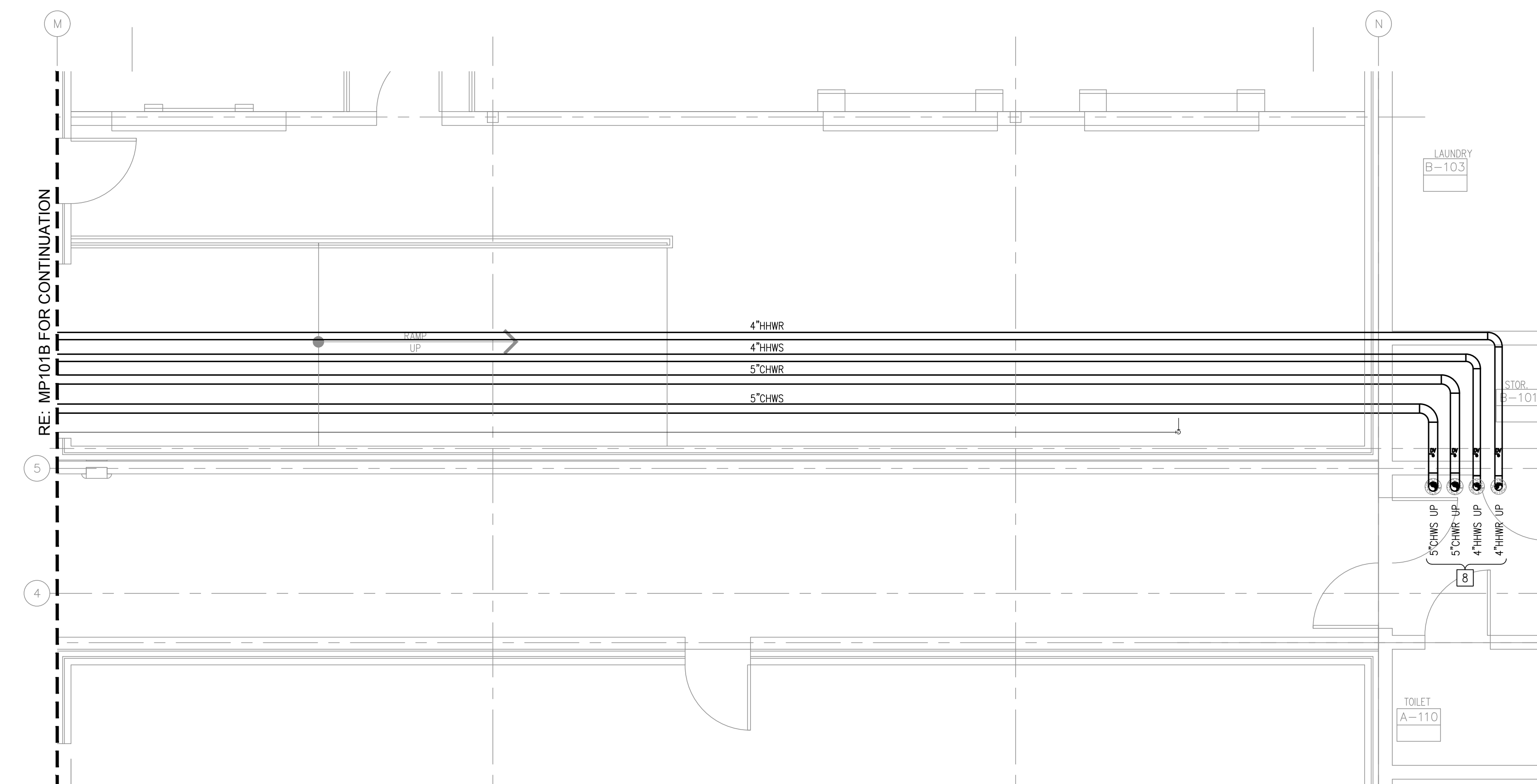
4 LEVEL 1 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"



2 LEVEL 1 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"



3 LEVEL 1 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"



5 LEVEL 1 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- 1 PROVIDE AND INSTALL WALL MOUNTED AC UNIT IN LOCATION SHOWN. CONNECT INSULATED REFRIGERANT LINES ROUTED FROM ASSOCIATED CONDENSING UNIT. PROVIDE ALL NECESSARY SUPPORTS FOR A WALL MOUNTED CONFIGURATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. RE: SHEET M600 FOR SCHEDULE.
- 2 PROVIDE AND INSTALL CONDENSATE PIPING. ROUTE TO EXISTING WASHING MACHINE DRAIN IN ADJACENT ROOM.
- 3 PROVIDE CONDENSING UNIT TO BE INSTALLED ON EXISTING PAD.
- 4 ROUTE HOT/CHILLED WATER PIPING ABOVE CEILING. REFERENCE 3.MP102B FOR CONTINUATION.
- 5 PROVIDE AND INSTALL CONDENSATE PIPING. ROUTE TO EXISTING PIPING IN ADJACENT RESTROOM.
- 6 ROUTE REFRIGERANT PIPING THROUGH EXTERIOR WALL DOWN LOW AND TURN UP ABOVE CEILING. SEAL PENETRATION WEATHER TIGHT. PROVIDE INSULATION AND ALUMINUM JACK ON EXTERIOR PIPING.
- 7 REFRIGERANT PIPING SHALL BE ROUTED ABOVE CEILING TO ASSOCIATED CONDENSING UNIT AND SUPPORTED FROM STRUCTURE ABOVE. FIELD VERIFY EXACT ROUTE AND TRANSITION PIPING AS NECESSARY FOR A COMPLETE INSTALLATION. PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
- 8 ROUTE HOT/CHILLED WATER PIPING UP TO THROUGH FLOOR IN LOCATION SHOWN. REFERENCE 1.MP102B FOR CONTINUATION.
- 9 ROUTE 1-1/2" COMMON CONDENSATE PIPING TO EXISTING FLOOR DRAIN. CONDENSATE PIPING SHALL SLOPE A 1/8" PER FOOT TOWARD DRAIN.

GENERAL NOTES:

- 1) RE: SHEET M001 FOR SYMBOLS, & NOTATIONS.
- 2) RE: SHEETS M500 AND M600 SERIES FOR DETAILS AND EQUIPMENT SCHEDULES.
- 3) RE: SHEETS M700 SERIES FOR RISER DIAGRAM



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CHECKED BY: MRB
DESIGNED BY: MRB

SHEET TITLE:
LEVEL 1 OVERALL
MECH PIPING
NEW WORK PLAN

SHEET NUMBER:

MP101D

38 OF 111 SHEETS
MARCH 21, 2023



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CAD DWG FILE: _____
DRAWN BY: JCM
CHECKED BY: MRB
DESIGNED BY: MRB

SHEET TITLE:
LEVEL 2
MECH PIPING
NEW WORK PLAN

SHEET NUMBER:

MP102A

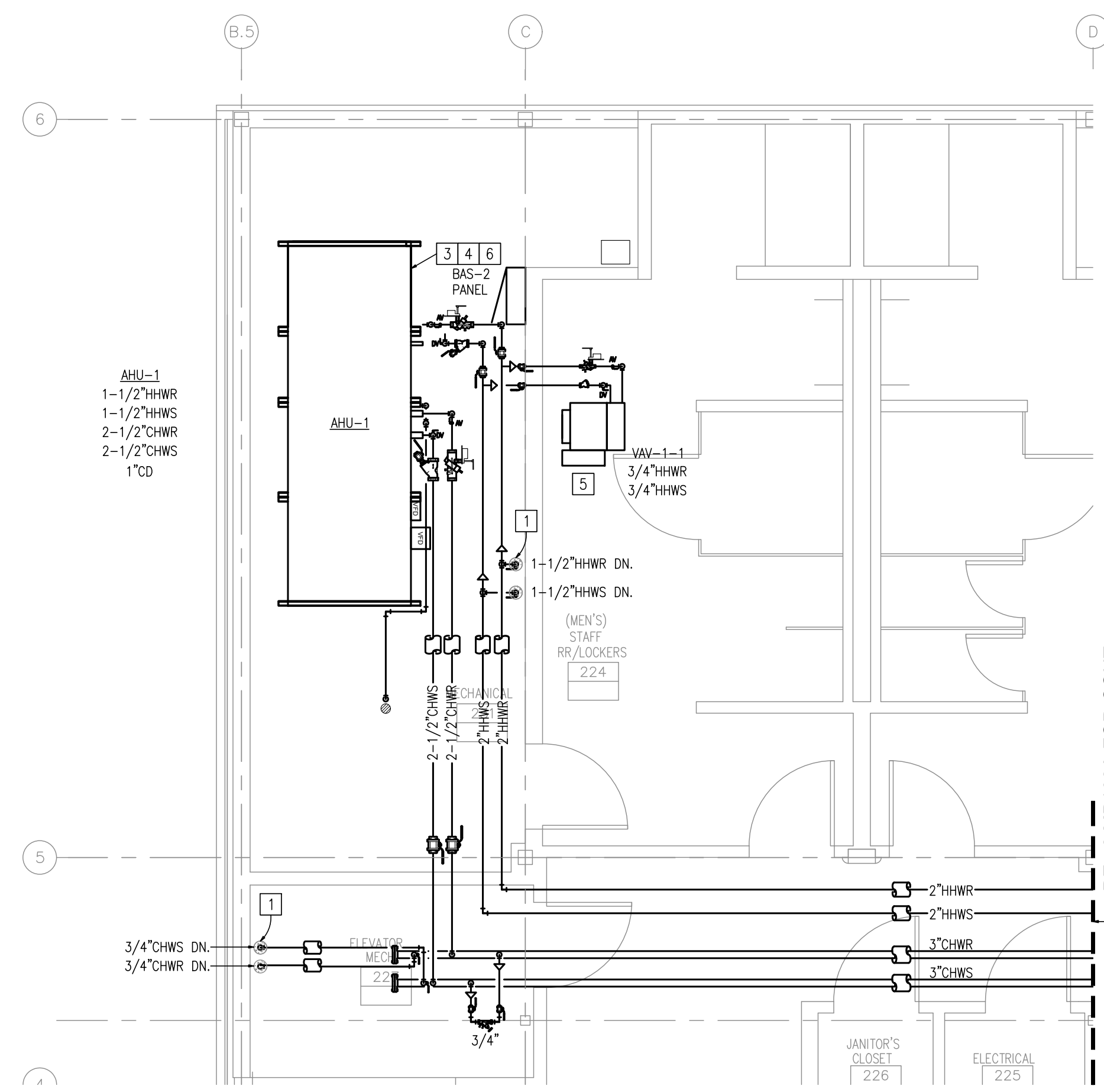
41 OF 111 SHEETS
MARCH 21, 2023

KEYED NOTES:

- 1 ROUTE PIPING DOWN THROUGH FLOOR IN LOCATION SHOWN. REFERENCE 1-MP101A FOR CONTINUATION.
- 2 ROUTE PIPING DOWN THROUGH FLOOR IN LOCATION SHOWN. REFERENCE 1-MP101B FOR CONTINUATION.
- 3 CONNECT NEW CHILLED WATER PIPING TO AIR HANDLING UNIT IN APPROXIMATE LOCATION SHOWN. TRANSITION PIPING AS NECESSARY FOR A COMPLETE INSTALLATION. RE: M500 SERIES DRAWINGS FOR AHU COIL PIPING CONNECTION DETAIL.
- 4 CONNECT NEW HEATING HOT WATER PIPING TO HEATING COIL IN APPROXIMATE LOCATION SHOWN. TRANSITION PIPING AS NECESSARY FOR A COMPLETE INSTALLATION. RE: M500 SERIES DRAWINGS FOR COIL PIPING CONNECTION DETAIL.
- 5 CONNECT NEW HEATING HOT WATER PIPING TO TERMINAL UNIT IN APPROXIMATE LOCATION SHOWN. TRANSITION PIPING AS NECESSARY FOR A COMPLETE INSTALLATION. RE: M500 SERIES DRAWINGS FOR COIL PIPING CONNECTION DETAIL.
- 6 CONNECT NEW CONDENSATE PIPING TO AIR HANDLING UNIT IN APPROXIMATE LOCATION SHOWN AND ROUTE TO EXISTING FLOOR DRAIN. PIPING SHALL SLOPE AT 1/8" PER FOOT TOWARD DRAIN AND TERMINATE WITH 6" AIR GAP.

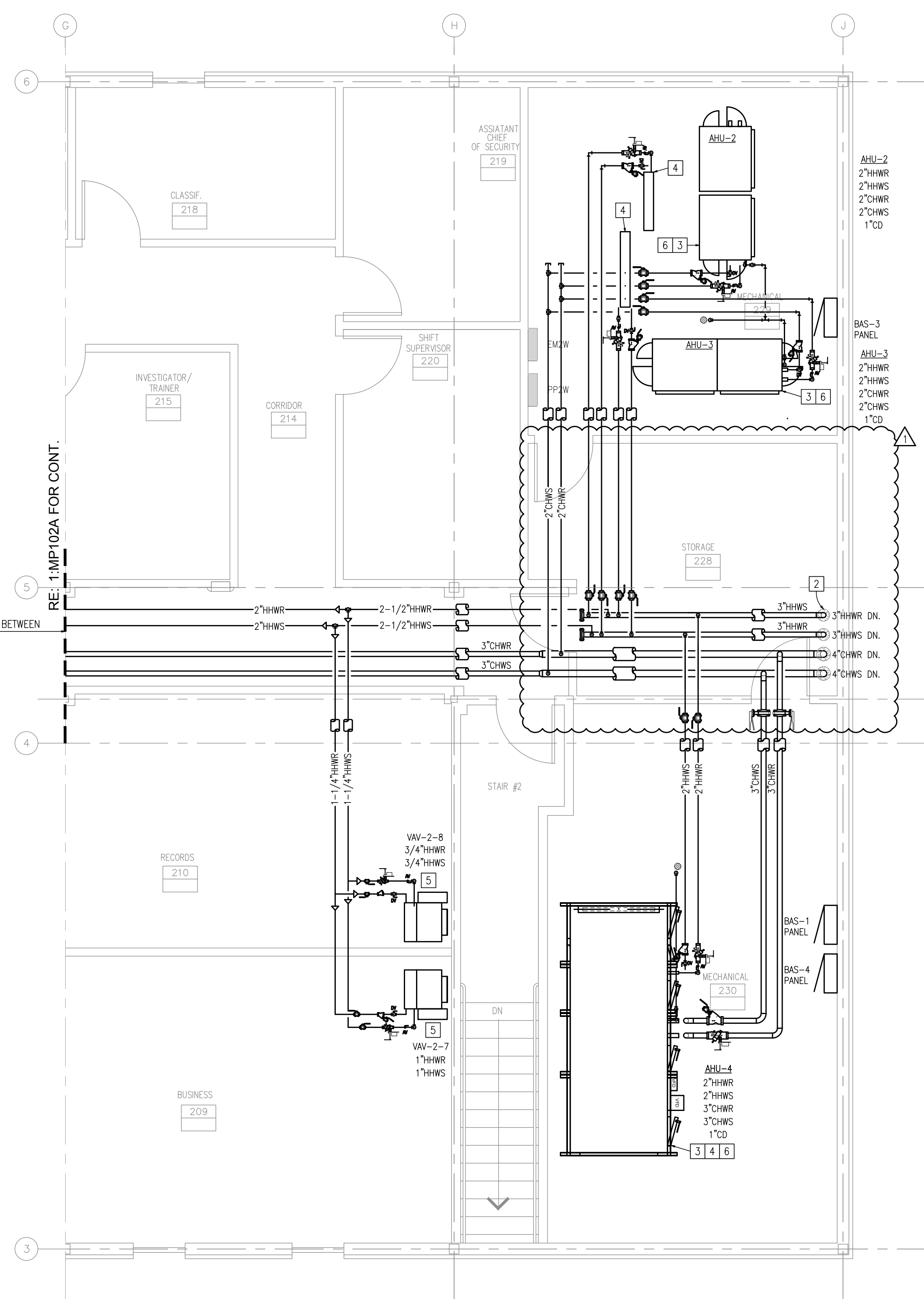
GENERAL NOTES:

- 1) RE: SHEET M001 FOR SYMBOLS, & NOTATIONS.
- 2) RE: SHEETS M500 AND M600 SERIES FOR DETAILS AND EQUIPMENT SCHEDULES.
- 3) RE: SHEETS M700 SERIES FOR RISER DIAGRAM.



1 LEVEL 2 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"

RE: 2-MP102A FOR CONT.



2 LEVEL 2 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"

RE: 1-MP102A FOR CONT.

ACTUAL DISTANCE BETWEEN 60'-0"



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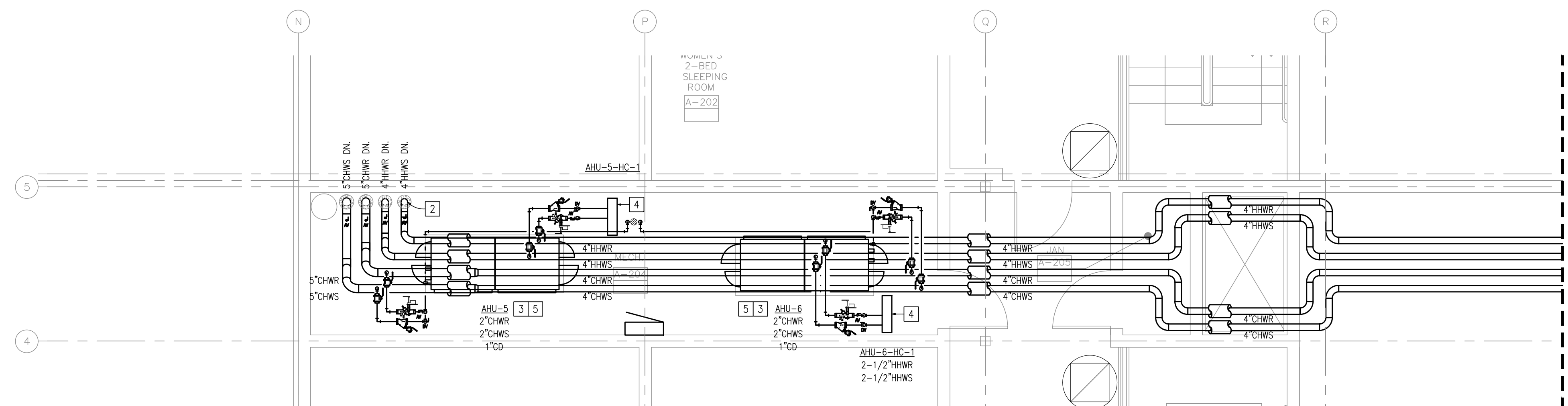
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KEYED NOTES:

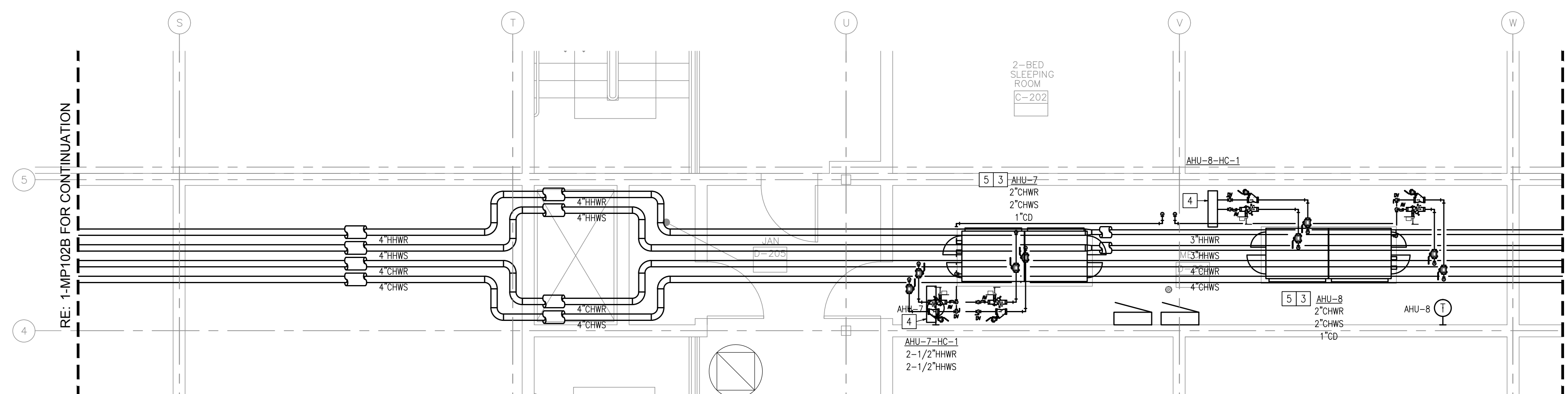
- 1 ROUTE PIPING DOWN THROUGH FLOOR IN LOCATION SHOWN. REFERENCE 4-MP101D FOR CONTINUATION.
- 2 ROUTE PIPING DOWN THROUGH FLOOR IN LOCATION SHOWN. REFERENCE 5-MP101D FOR CONTINUATION.
- 3 CONNECT NEW CHILLED WATER PIPING TO AIR HANDLING UNIT IN APPROXIMATE LOCATION SHOWN. TRANSITION PIPING AS NECESSARY FOR A COMPLETE INSTALLATION. RE: M500 SERIES DRAWINGS FOR AHU COIL PIPING CONNECTION DETAIL.
- 4 CONNECT NEW HEATING HOT WATER PIPING TO HEATING COIL IN APPROXIMATE LOCATION SHOWN. TRANSITION PIPING AS NECESSARY FOR A COMPLETE INSTALLATION. RE: M500 SERIES DRAWINGS FOR COIL PIPING CONNECTION DETAIL.
- 5 CONNECT NEW CONDENSATE PIPING TO AIR HANDLING UNIT IN APPROXIMATE LOCATION SHOWN AND ROUTE TO EXISTING FLOOR DRAIN. PIPING SHALL SLOPE AT 1/8" PER FOOT TOWARD DRAIN AND TERMINATE WITH 6" AIR GAP.

GENERAL NOTES:

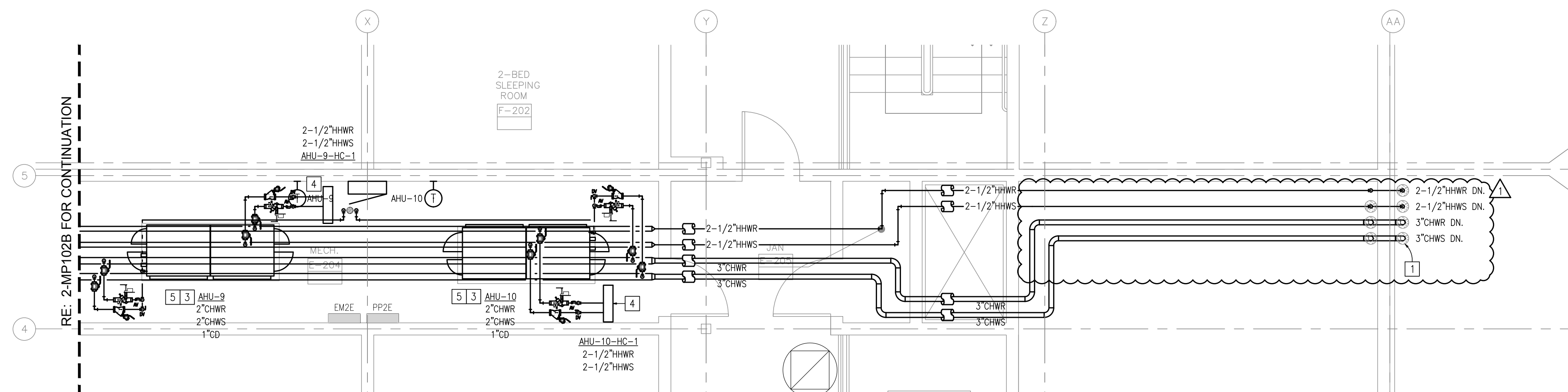
- 1) RE: SHEET M001 FOR SYMBOLS, & NOTATIONS.
- 2) RE: SHEETS M500 AND M600 SERIES FOR DETAILS AND EQUIPMENT SCHEDULES.
- 3) RE: SHEETS M700 SERIES FOR RISER DIAGRAM



1 LEVEL 2 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"



2 LEVEL 2 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"



3 LEVEL 2 MECHANICAL PIPING NEW WORK PLAN
SCALE: 1/4" = 1'-0"

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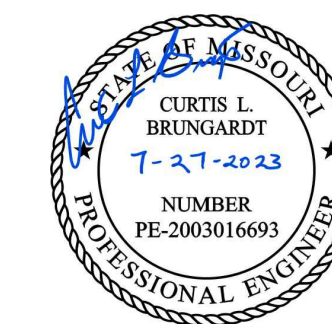
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DRAWN BY: JCM
CHECKED BY: MRB
DESIGNED BY: MRB

SHEET TITLE:
LEVEL 2
MECH PIPING
NEW WORK PLAN

SHEET NUMBER:

MP102B

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MARCH 21, 2023



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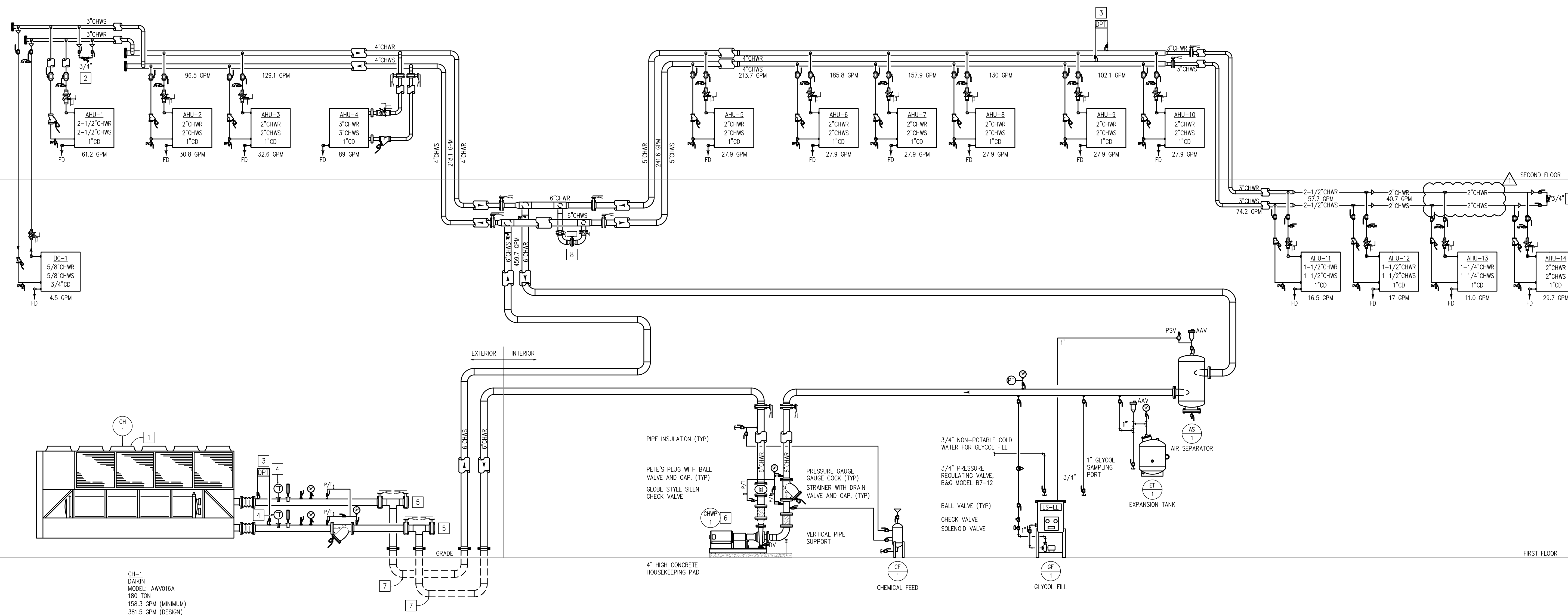
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LEE'S SUMMIT, MO 64064 Ph: (816) 228-3377

KEY NOTES:

- 1) COORDINATE ALL WORK WITH CONTROLS CONTRACTOR. RE: M502 FOR TYPICAL CHILLER CONNECTION DETAIL AND RE: M602 FOR AIR COOLED CHILLER SCHEDULE. RE: BA701 FOR CHILLED WATER CONTROL SCHEMATIC.
- 2) PROVIDE 3/4" BYPASS LINE WITH CIRCUIT SETTER AND NORMALLY OPEN VALVES CAPABLE OF LOCKING IN THE OPEN AND CLOSED POSITIONS. PROVIDE DRAIN VALVE AND CAP AT LOW POINT OF PIPING. INITIALLY SET CIRCUIT SETTER FOR 2GPM.
- 3) INSTALL DIFFERENTIAL PRESSURE TRANSMITTER IN LOCATION SHOWN. RE: MP1010D FOR SENSOR LOCATION.
- 4) PROVIDE 3/4" TEMPERATURE SENSOR WELL IN LOCATION SHOWN FOR INSTALLATION OF TEMPERATURE SENSOR BY CONTROLS CONTRACTOR. COORDINATE ALL WORK WITH CONTRACTOR.
- 5) CHILLED WATER PIPING FOR TEMPORARY CHILLER. PROVIDE AND INSTALL BLIND FLANGES WITH ISOLATION VALVES FOR EASE OF CONNECTION. RE: MECHANICAL NEW WORK PLANS FOR ROUTING.
- 6) PROVIDE NEW CHILLED WATER PUMP AS SHOWN. COORDINATE ALL WORK WITH CONTROLS CONTRACTOR. RE: M502 FOR TYPICAL CONNECTION DETAILS AND CHILLED WATER PUMP SCHEDULE.
- 7) COORDINATE LOCATION WITH EXISTING DOMESTIC COLD WATER MAIN APPROXIMATELY 5'-0" BELOW GRADE. ROUTE NEW CHILLED WATER PIPING BELOW EXISTING DOMESTIC COLD WATER MAIN. PROVIDE CONCRETE CAP WHERE NEW PIPING INTERSECTS EXISTING DOMESTIC COLD WATER PIPE. RE: SPECS FOR BELOW GRADE PIPING TYPES.
- 8) PROVIDE 4" BYPASS ISOLATION VALVES AND INSTALL BYPASS VALVE IN LOCATION SHOWN. TRANSITION PIPING AS NECESSARY.

GENERAL NOTES:

- 1) RE: M001 FOR GENERAL NOTES & SYMBOLS
- 2) RE: M500 & M600 SERIES DRAWINGS FOR MECHANICAL DETAILS AND EQUIPMENT SCHEDULES



CH-1
DAIKIN
MODEL: AWW016A
180 TON
158.3 GPM (MINIMUM)
381.5 GPM (DESIGN)

1 CHILLED WATER FLOW DIAGRAM - NEW WORK
SCALE: NOT TO SCALE

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OF KANSAS CITY

651 MULBERRY STREET
KANSAS CITY, MISSOURI

PROJECT # C1904-01
SITE # 7027
FACILITY # 9327027001

REVISION: Δ ADDENDUM #03
DATE: 07/27/23
REVISION: _____
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DATE: _____
ISSUE DATE: 03/21/2023

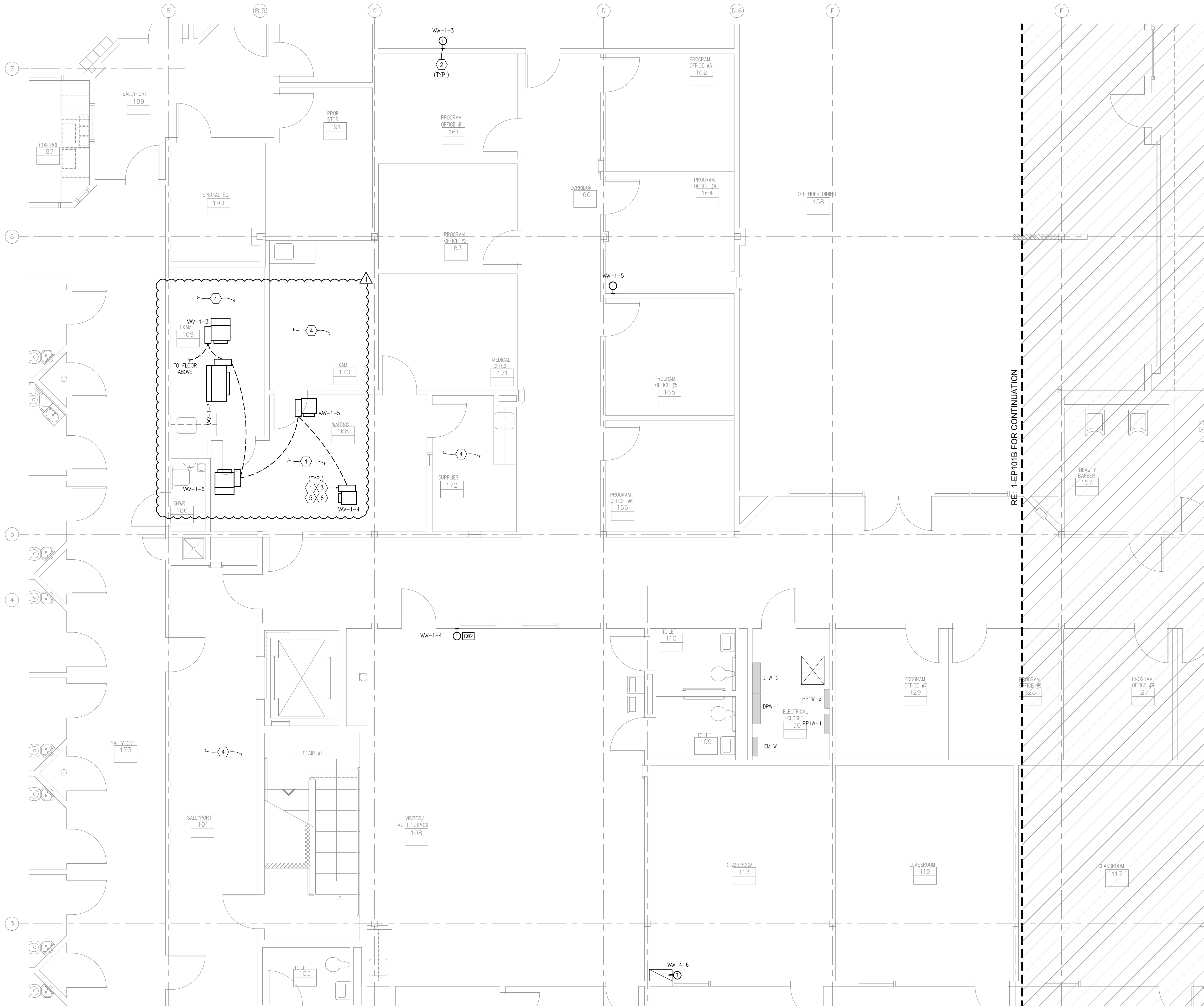
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DRAWN BY: RJR
CHECKED BY: MRB
DESIGNED BY: MRB

SHEET TITLE:
**MECHANICAL
SCHEMATICS**

SHEET NUMBER:

M701

62 OF 111 SHEETS
MARCH 21, 2023



KEYED NOTES:

- 1 PROVIDE 3/4" CONDUIT DAISY CHAIN WITH PULL STRINGS AND J-BOXES ADJACENT TO ALL VAV BOXES. COLOR J-BOXES PER SPECIFICATIONS.
- 2 PROVIDE J-BOX AND 1/2" CONDUIT WITH PULL STRING ROUTED TO CONTROLLER, THERMOSTAT/SENSOR AND CONTROL WIRING BY CONTROLS CONTRACTOR. COORDINATE WORK WITH CONTROLS CONTRACTOR.
- 3 CONNECT CIRCUITRY TO DISCONNECT PROVIDED WITH EQUIPMENT.
- 4 REINSTALL ALL EXISTING ELECTRICAL DEVICES RETAINED DURING DEMOLITION IN THE NEW CEILING. REFERENCE SHEET EPD101A FOR ADDITIONAL INFORMATION.
- 5 PROVIDE NEW COMMUNICATION BUS CABLE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTE. COORDINATE WORK WITH CONTROLS CONTRACTOR.
- 6 PROVIDE NEW 24V CABLE FROM CONTROL TRANSFORMER IN BAS CABINET TO ALL NEW VAV BOXES. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTE. COORDINATE WORK WITH CONTROLS CONTRACTOR.

GENERAL NOTES:
 1) RE: SHEET E001 FOR SYMBOLS, & NOTATIONS.
 2) RE: SHEETS E600 SERIES FOR PANEL SCHEDULES AND MISC. SCHEDULE.

RE: 1-EP101B FOR CONTINUATION



MEP ENGINEER



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CAD DWG FILE: _____
 DRAWN BY: RJR
 CHECKED BY: MRB
 DESIGNED BY: MRB

SHEET TITLE:
 LEVEL 1
 ELEC POWER
 NEW WORK PLAN

SHEET NUMBER:
EP101A

94 OF 111 SHEETS
 MARCH 21, 2023

**1 ELEC POWER
 NEW WORK PLAN**
 SCALE: 1/4" = 1'-0"



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DRAWN BY: RJR
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DESIGNED BY: MRB

SHEET TITLE:
LEVEL 1
ELEC POWER
NEW WORK PLAN

SHEET NUMBER:

EP101C

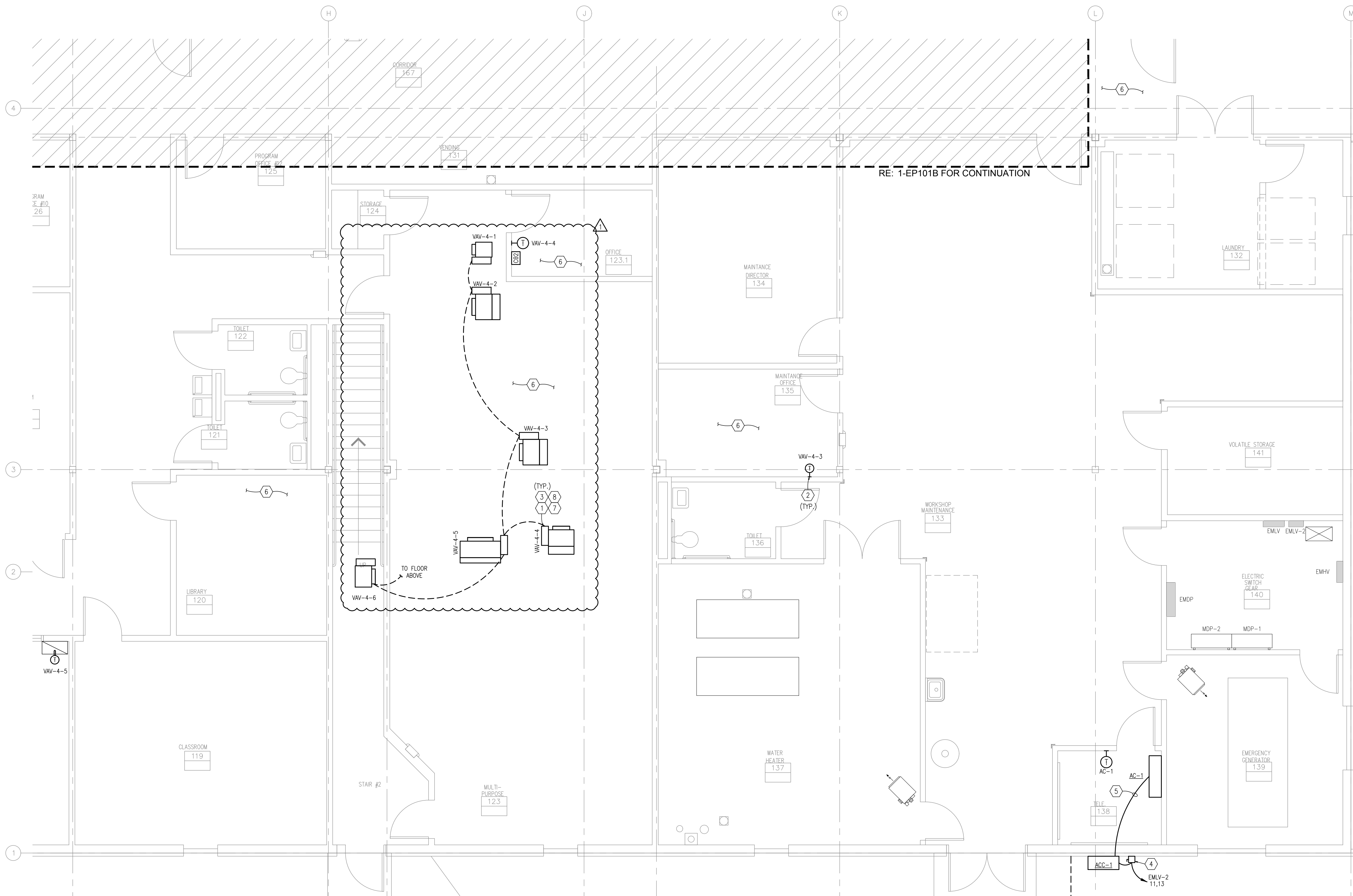
96 OF 111 SHEETS
MARCH 21, 2023

KEYED NOTES:

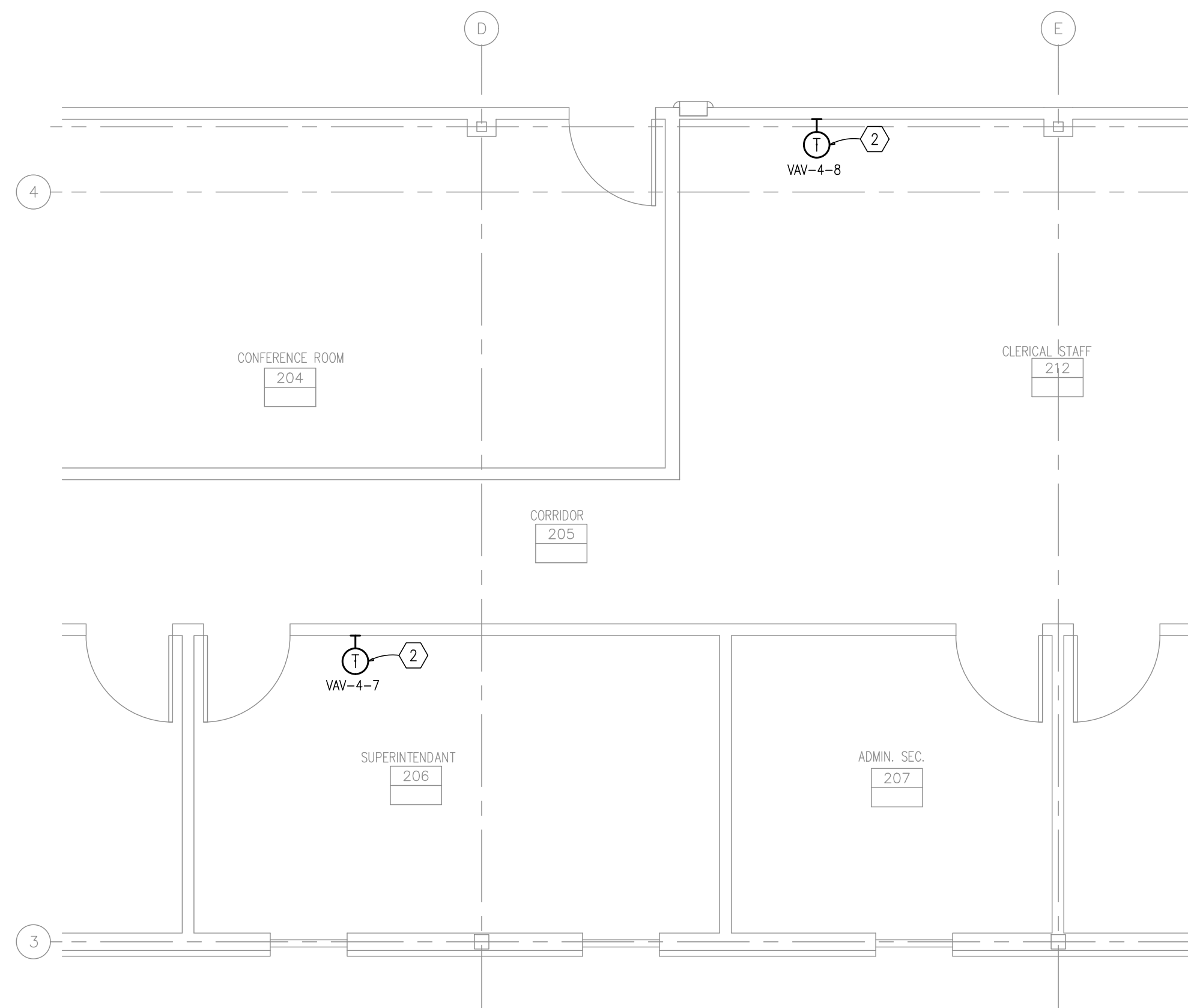
- 1) PROVIDE 3/4" CONDUIT DAISY CHAIN WITH PULL STRINGS AND J-BOXES ADJACENT TO ALL VAV BOXES. COLOR J-BOXES PER SPECIFICATIONS.
- 2) PROVIDE J-BOX AND 1/2" CONDUIT WITH PULL STRING ROUTED TO CONTROLLER. THERMOSTAT/SENSOR AND CONTROL WIRING BY CONTROLS CONTRACTOR. COORDINATE WORK WITH CONTROLS CONTRACTOR.
- 3) CONNECT CIRCUITRY TO DISCONNECT SWITCH PROVIDED WITH EQUIPMENT.
- 4) PROVIDE DISCONNECT SWITCH FOR CONDENSING UNIT. PROVIDE 30A, 3P, 240V, NEMA 3R, HD, FUSED DISCONNECT WITH 20A FUSES. MOUNT ON EXTERIOR WALL ADJACENT TO UNIT WHILE MAINTAINING ALL REQUIRED CLEARANCES.
- 5) EXTEND CONDUIT AND WIRING FROM CONDENSING UNIT TO INDOOR UNIT. INDOOR UNIT TO BE POWERED FROM ASSOCIATED CONDENSING UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 6) REINSTALL ALL EXISTING ELECTRICAL DEVICES RETAINED DURING DEMOLITION IN THE NEW CEILING. REFERENCE SHEET EPD101C FOR ADDITIONAL INFORMATION.
- 7) PROVIDE NEW COMMUNICATION BUS CABLE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTE. COORDINATE WORK WITH CONTROLS CONTRACTOR.
- 8) PROVIDE NEW 24V CABLE FROM CONTROL TRANSFORMER IN BAS CABINET TO ALL NEW VAV BOXES. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTE. COORDINATE WORK WITH CONTROLS CONTRACTOR.

GENERAL NOTES:

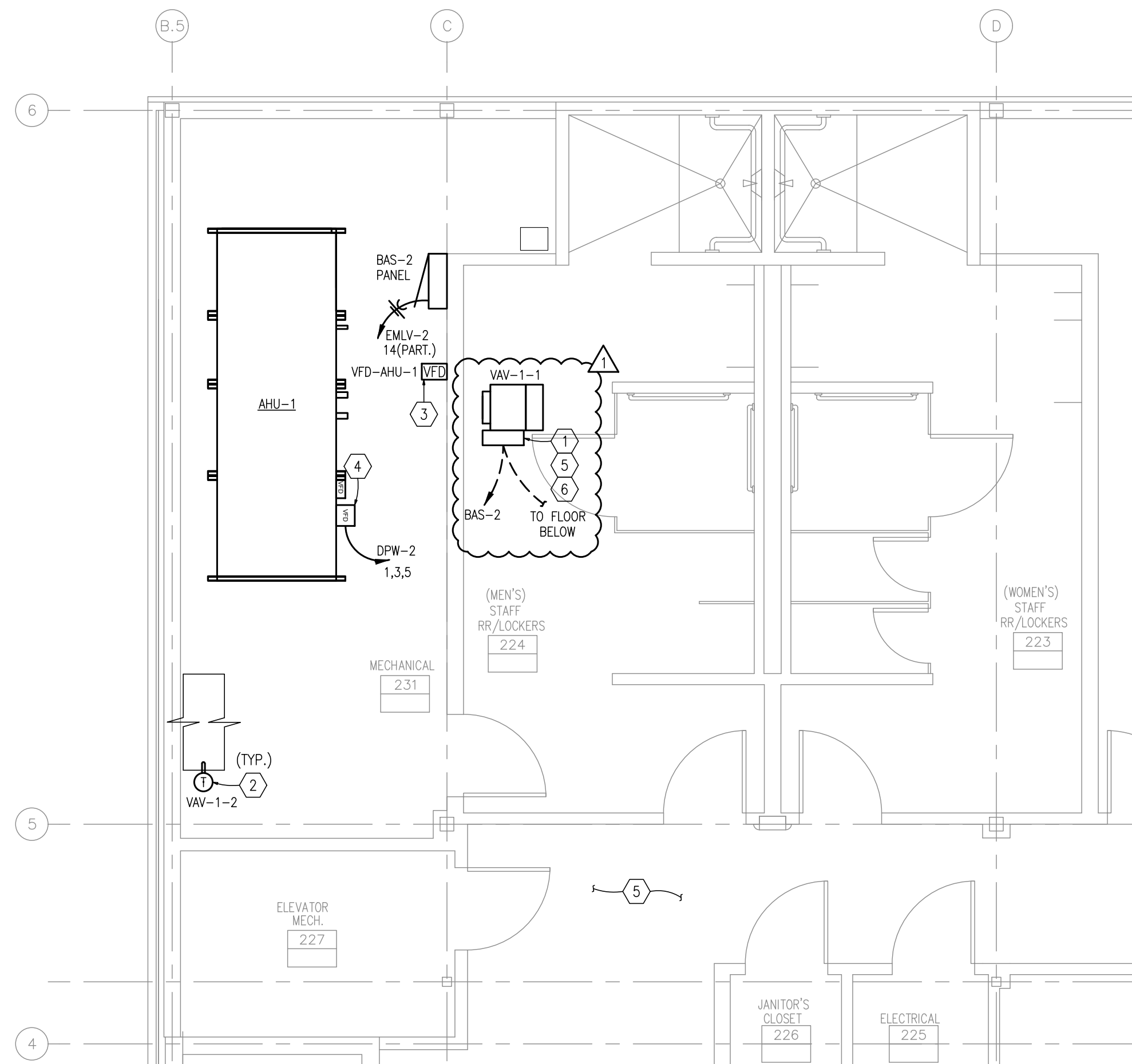
- 1) RE: SHEET E001 FOR SYMBOLS, & NOTATIONS.
- 2) RE: SHEETS E600 SERIES FOR PANEL SCHEDULES AND MISC. SCHEDULE.



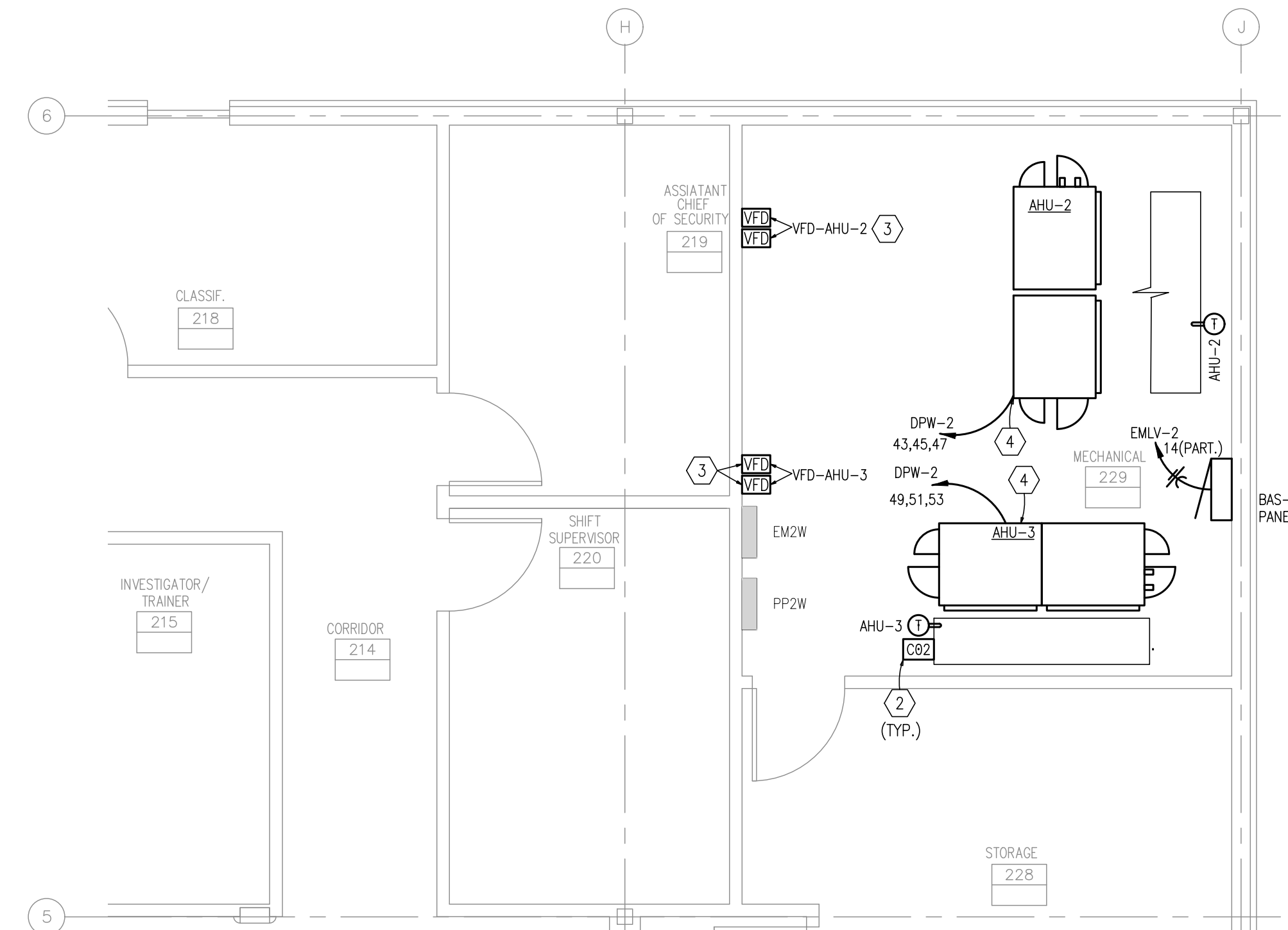
1 LEVEL 1 ELECTRICAL POWER NEW WORK PLAN
SCALE: 1/4" = 1'-0"



1 LEVEL 2 ELECTRICAL POWER NEW WORK PLAN
SCALE: 1/4" = 1'-0"



2 LEVEL 2 ELECTRICAL POWER NEW WORK PLAN
SCALE: 1/4" = 1'-0"



3 LEVEL 2 ELECTRICAL POWER NEW WORK PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- 1) PROVIDE 3/4" CONDUIT DAISY CHAIN WITH PULL STRINGS AND J-BOXES ADJACENT TO ALL VAV BOXES. COLOR J-BOXES PER SPECIFICATIONS.
- 2) PROVIDE J-BOX AND 1/2" CONDUIT WITH PULL STRING ROUTED TO CONTROLLER, THERMOSTAT/SENSOR AND CONTROL WIRING BY CONTROLS CONTRACTOR. COORDINATE WORK WITH CONTROLS CONTRACTOR.
- 3) INSTALL VFD PROVIDED BY CONTRACTOR IN APPROXIMATE LOCATION SHOWN. MOUNT VFD ON WALL NEAR UNIT. ROUTE CONDUIT AND WIRING FROM AIR HANDLING UNIT THROUGH VFD AND TO DESIGNATED PANEL BOARD. RE: E604 FOR FEEDER REQUIREMENTS.
- 4) CONNECT CIRCUITRY TO DISCONNECT SWITCH PROVIDED WITH EQUIPMENT.
- 5) REINSTALL ALL EXISTING ELECTRICAL DEVICES RETAINED DURING DEMOLITION IN THE NEW CEILING. REFERENCE SHEET EPD102A FOR ADDITIONAL INFORMATION.
- 6) PROVIDE NEW COMMUNICATION BUS CABLE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTE. COORDINATE WORK WITH CONTROLS CONTRACTOR.
- 7) PROVIDE NEW 24V CABLE FROM CONTROL TRANSFORMER IN BAS CABINET TO ALL NEW VAV BOXES. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTE. COORDINATE WORK WITH CONTROLS CONTRACTOR.

- GENERAL NOTES:**
- 1) RE: SHEET E001 FOR SYMBOLS, & NOTATIONS.
 - 2) RE: SHEETS E600 SERIES FOR PANEL SCHEDULES AND MISC. SCHEDULE.



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CHECKED BY: MRB
DESIGNED BY: MRB

SHEET TITLE:
LEVEL 2
ELEC POWER
NEW WORK PLAN

SHEET NUMBER:

EP102A