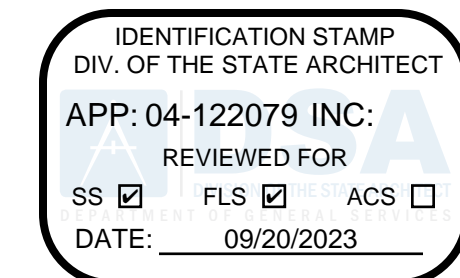


BRENTWOOD ELEMENTARY SCHOOL

VICTOR ELEMENTARY SCHOOL DISTRICT

13962 HOOK BLD, VICTOVILLE, CA 92394

HVAC REPLACEMENT PROJECT



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 19520 Jamboree Road | Suite 100
 Irvine | California | 92612
 949.250.0880 | FAX 949.250.0882
 www.westgroupdesigns.com

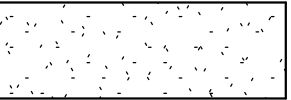


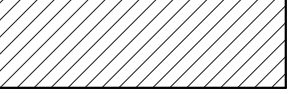
ISSUED FOR:	REVISIONS:
DSA REVIEW SUBMITAL	03/29/2023
DSA REVIEW	05-10-2023
DSA SUBMITTAL	08/30/23

REGISTRATION/SIGNATURE:

SHEET TITLE:			
COVER IMAGE SHEET			
SHEET NUMBER:			
CS-0.1			
WD PROJ. #	DRAWN BY:	CHECKED	DATE
22825	KD	MC/CW	03/29/23
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SITE PLAN LEGEND

-  (E) CONCRETE PAVING
-  (E) ASPHALT PAVING
-  (E) GRASS / LANDSCAPING
-  EXISTING BUILDING - NOT A PART OF THE WORK SCOPE

GENERAL NOTES

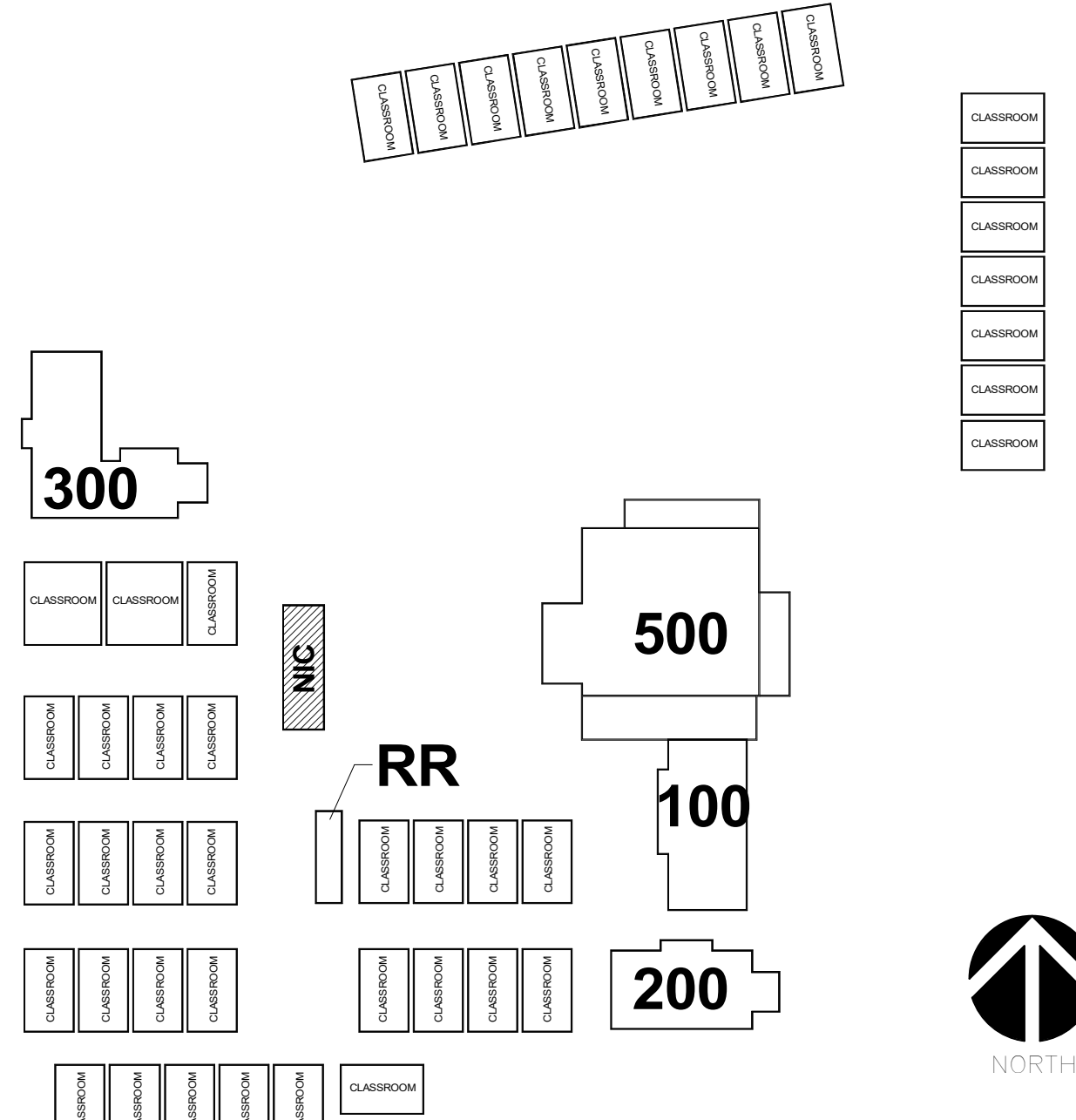
SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	BUILDING 100 - FOR SCOPE OF WORK SEE SHEET A5-1.1
SN.02	BUILDING 200 - FOR SCOPE OF WORK SEE SHEET A5-1.2
SN.03	BUILDING 300 - FOR SCOPE OF WORK SEE SHEET A5-1.3
SN.04	BUILDING 500 - FOR SCOPE OF WORK SEE SHEET A5-1.4
SN.05	RESTROOM BUILDING - FOR SCOPE OF WORK SEE SHEET A5-1.5
SN.06	RELOCATABLE CLASSROOMS (SINGLE UNIT) - FOR SCOPE OF WORK SEE SHEET A5-1.6
SN.07	RELOCATABLE CLASSROOMS (DUAL UNIT) - FOR SCOPE OF WORK SEE SHEET A5-1.7

DSA APPLICATION NUMBERS

BUILDING	DSA - A#	SCOPE	SQUARE FOOTAGE
BUILDING 100	64031	NEW BUILDING	3600
BUILDING 200	64031	NEW BUILDING	2600
BUILDING 300	64031	NEW BUILDING	3945
BUILDING 400	64031	NEW BUILDING	1200
BUILDING 500	64031	NEW BUILDING	3700
RELOC.	64031	NEW CLASSROOMS	960

KEY PLAN



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 04-122079 INC.
 REVIEWED FOR: _____
 SS FLS ACS
 DATE: 09/20/2023

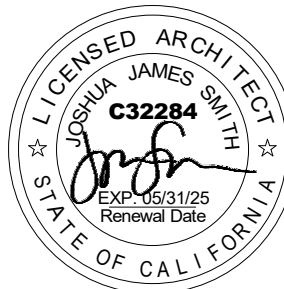
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 19520 Jamboree Road | Suite 100
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BRENTWOOD
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SCHOOL DISTRICT
 13962 HOOK BLD.,
 VICTORVILLE, CA 92394

ISSUED FOR:

DSA REVIEW SUBMITTAL	03/29/2023
DSA REVIEW	06/15/2023
DSA SUBMITTAL	08/02/23

REVISIONS:

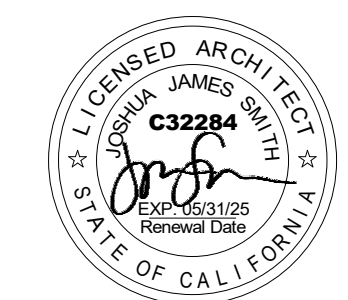
REGISTRATION/SIGNATURE:


SHEET TITLE:
EXISTING OVERALL
SITE PLAN

SHEET NUMBER:
A0-1.1

WD PROJ.# DRAWN BY CHECKED DATE
 22825 KD MC/CW 03/29/23

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LEGEND

- (E) WALL TO REMAIN
- N.I.C.
- WALL TO BE DEMOLISHED

GENERAL NOTES

1. PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFG, CHAPTER 33.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.
5. REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. REFER TO MECHANICAL DRAWING FOR CEILING DIFFUSER.
6. **EXTERIOR DUCT PAINT:**
 PRIMER:
 PLAIN STEEL: TNEMEC SERIES 94-97 TNEME-ZINC, TWO-COMPONENT CATALYZED EPOXY COATING AT 2.5-3.5 MILS DFT.
 GALVANIZED STEEL: TNEMEC SERIES L69 EPOXOLINE, TWO-COMPONENT CATALYZED EPOXY COATING AT 2-3 MILS DFT.
 FINISH COATING:
 TNEMEC SERIES 1095 ENDURA-SHIELD, PIGMENTED, ALIPHATIC, POLYURETHANE COATING, SEMI-GLOSS SHEEN AT 3MILS DFT MINIMUM.
 FINISH COLORS:
 AS INDICATED ON THE DRAWINGS
 OR APPROVED EQUAL

PROTECTION KEYNOTES

PN#	DESCRIPTION
PN.01	(E) EXTERIOR DUCTWORK AT GROUND MOUNTED UNITS TO REMAIN
PN.02	(E) INTERIOR DUCTWORK TO REMAIN
PN.03	(E) CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION

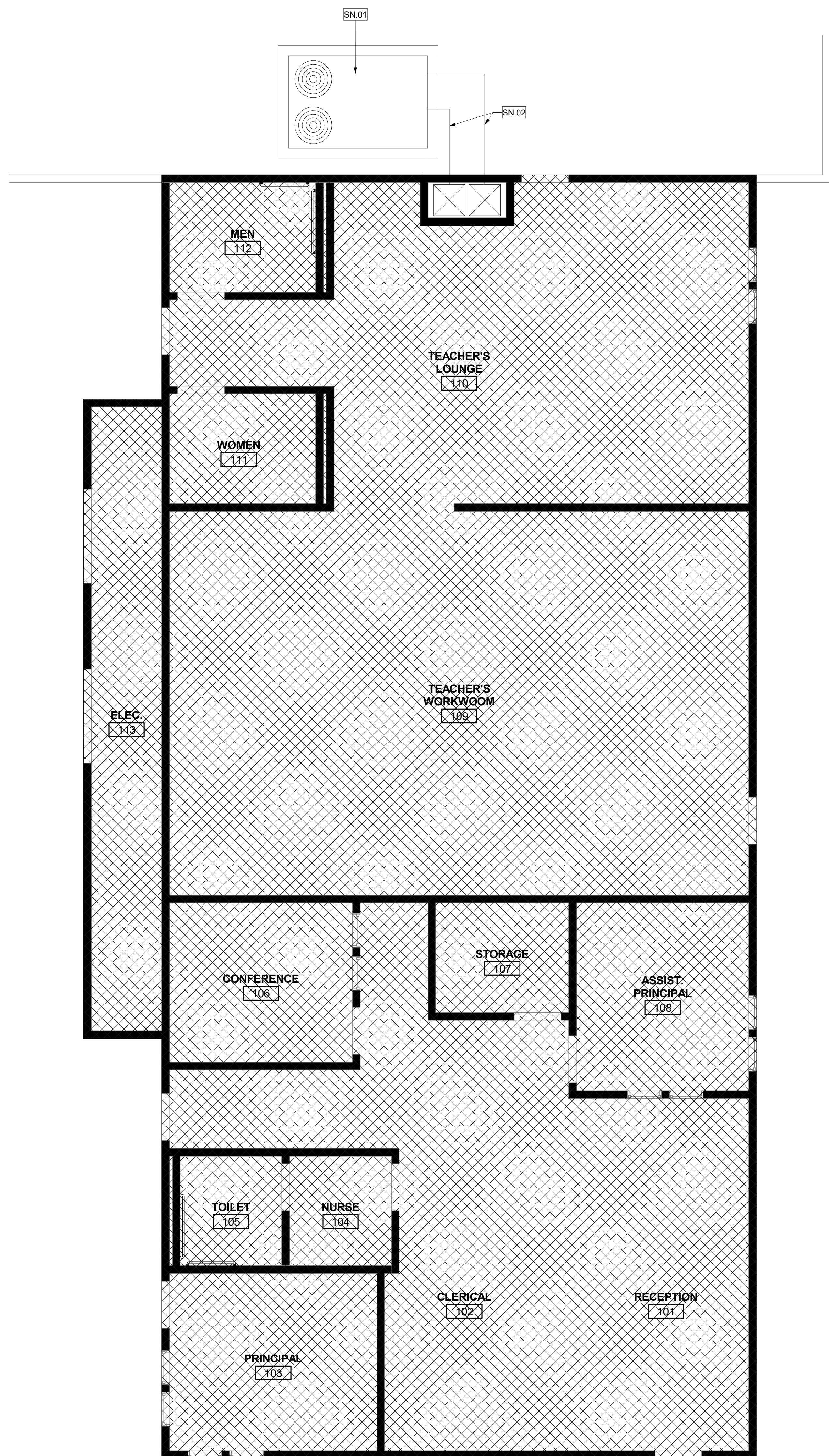
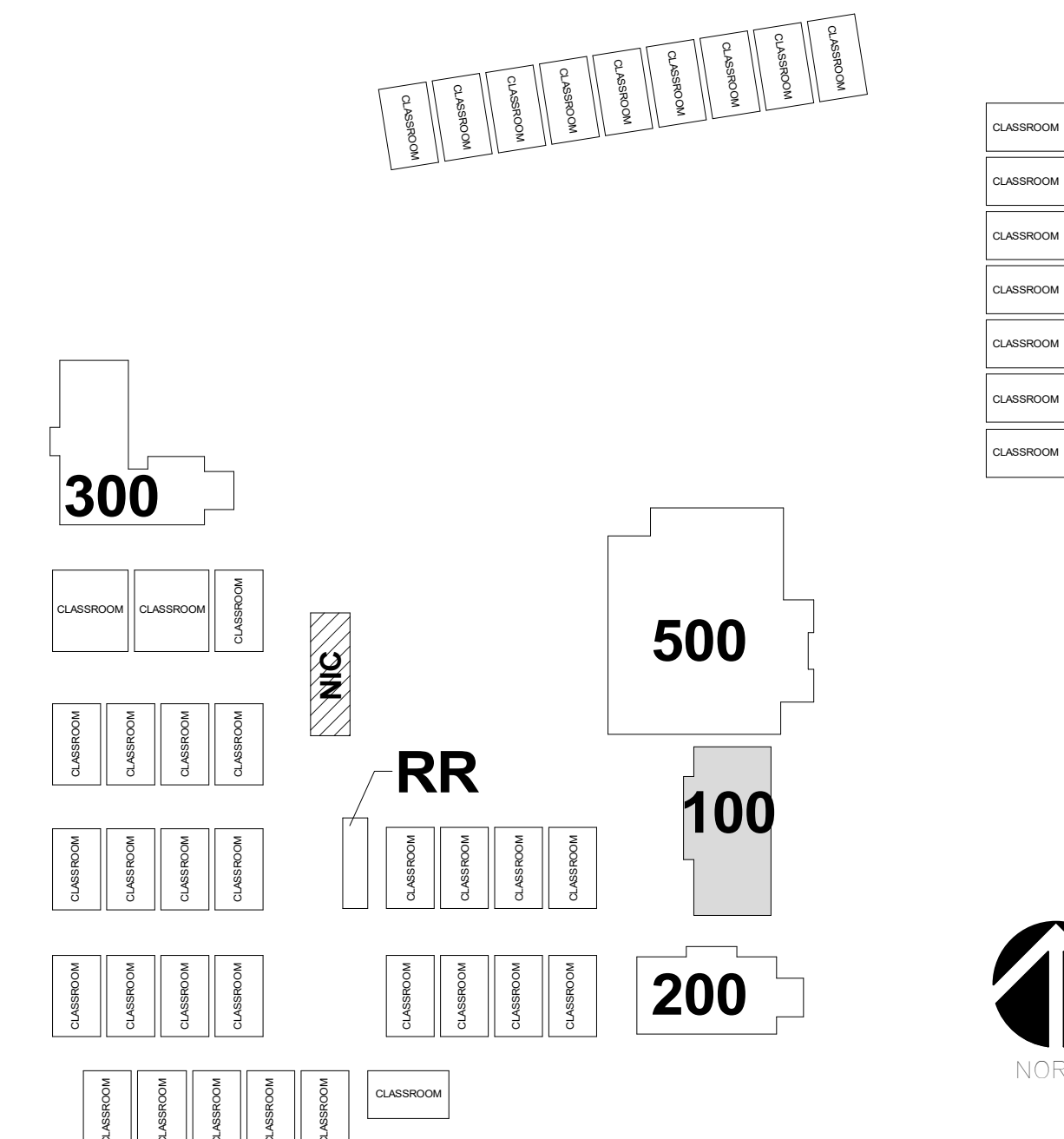
DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT.

RENOVATION KEYNOTES

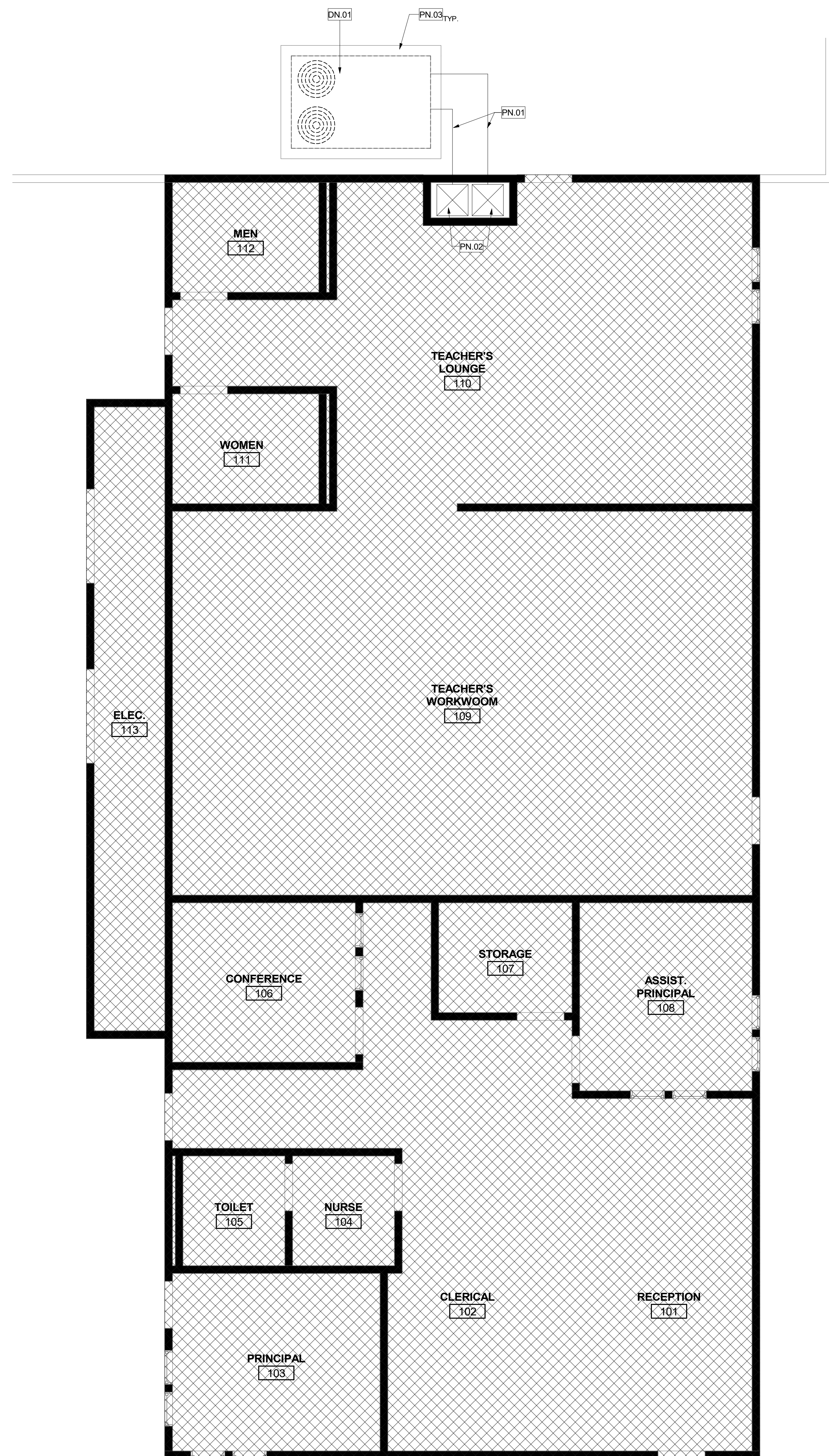
SN#	DESCRIPTION
SN.01	NEW GRADE MOUNTED AIR CONDITIONING UNIT
SN.02	PAINT EXTERIOR DUCTWORK IN WHITE. SEE GENERAL NOTES 6

KEY PLAN



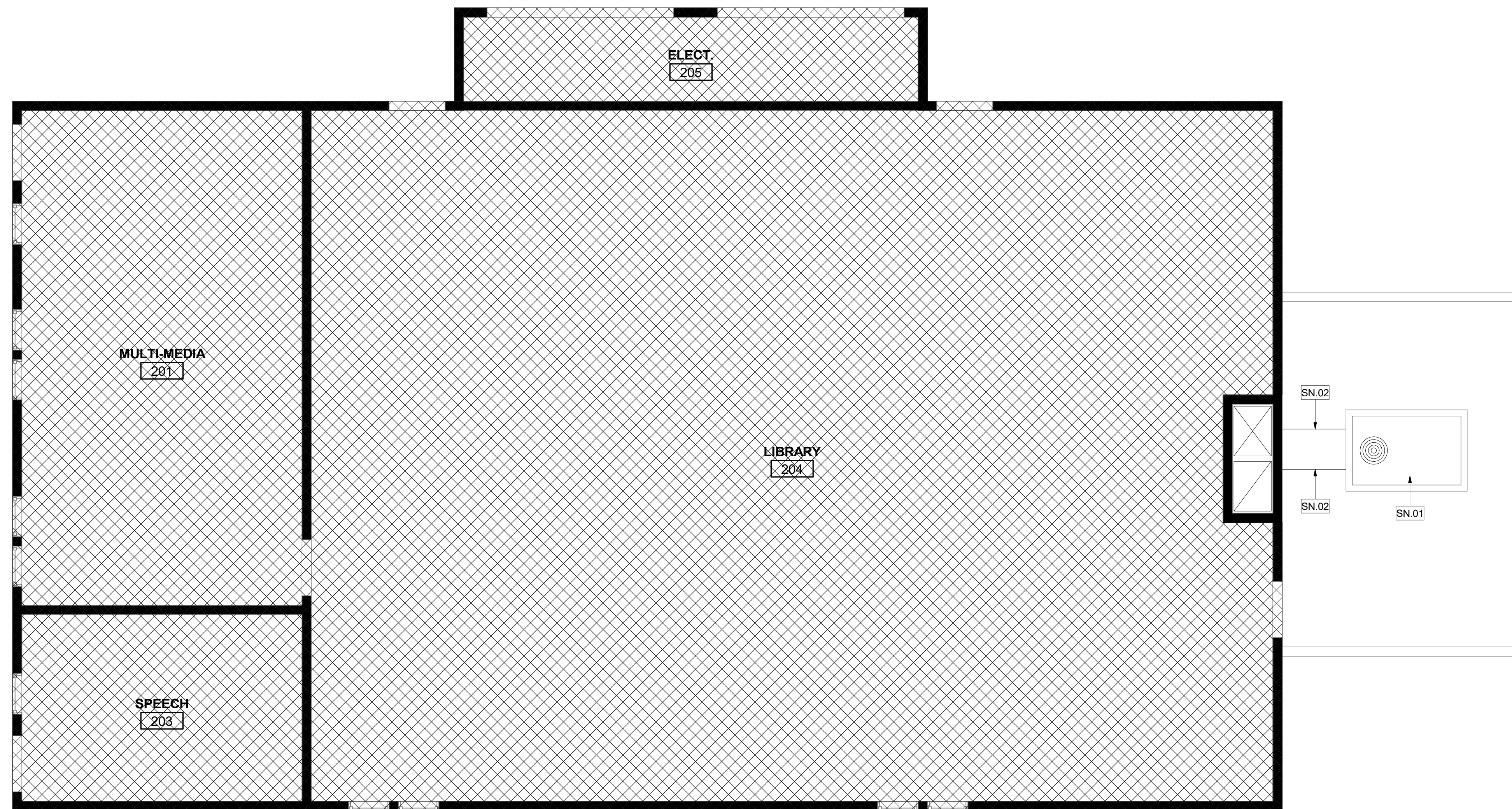
RENOVATION FLOOR PLAN - BUILDING 100 (ADMINISTRATION)

2
 1/4" = 1'-0"



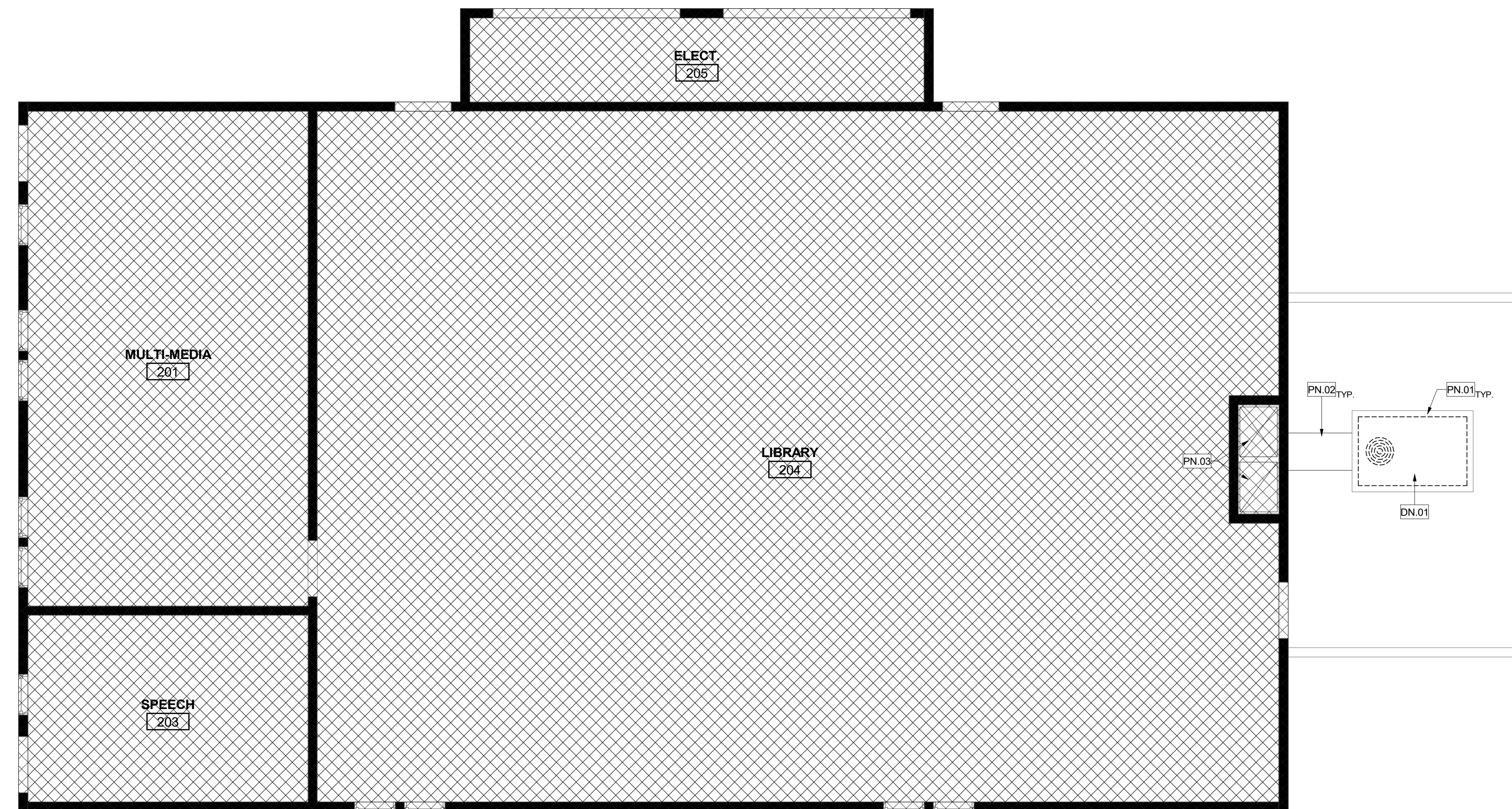
DEMOLITION FLOOR PLAN - BUILDING 100 (ADMINISTRATION)

1
 1/4" = 1'-0"



RENOVATION FLOOR PLAN - BUILDING 200 (LIBRARY)

2
1/4" = 1'-0"



DEMOLITION FLOOR PLAN - BUILDING 200 (LIBRARY)

1
1/4" = 1'-0"

LEGEND

- (E) WALL TO REMAIN
- N.I.C.
- WALL TO BE DEMOLISHED

GENERAL NOTES

1. PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFG, CHAPTER 33.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.
5. REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. REFER TO MECHANICAL DRAWING FOR CEILING DIFFUSER.
6. **EXTERIOR DUCT PAINT:**
PRIMER:
 PLAIN STEEL: TNEMEC SERIES 94-97 TNEME-ZINC, TWO-COMPONENT CATALYZED EPOXY COATING AT 2.5-3.5 MILS DFT.
 GALVANIZED STEEL: TNEMEC SERIES L69 EPOXOLINE, TWO-COMPONENT CATALYZED EPOXY COATING AT 2-3 MILS DFT.
FINISH COATING:
 TNEMEC SERIES 1095 ENDURA-SHIELD, PIGMENTED, ALIPHATIC, POLYURETHANE COATING, SEMI-GLOSS SHEEN AT 3MILS DFT MINIMUM.
FINISH COLORS:
 AS INDICATED ON THE DRAWINGS
OR APPROVED EQUAL

PROTECTION KEYNOTES

- | PN# | DESCRIPTION |
|-------|--|
| PN.01 | (E) CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION |
| PN.02 | (E) EXTERIOR DUCTWORK AT GROUND MOUNTED UNITS TO REMAIN |
| PN.03 | (E) INTERIOR DUCTWORK TO REMAIN |

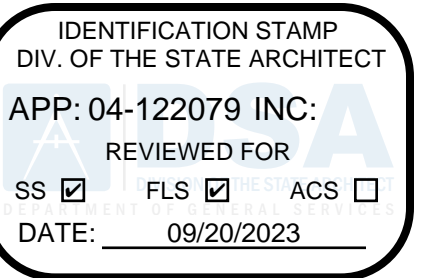
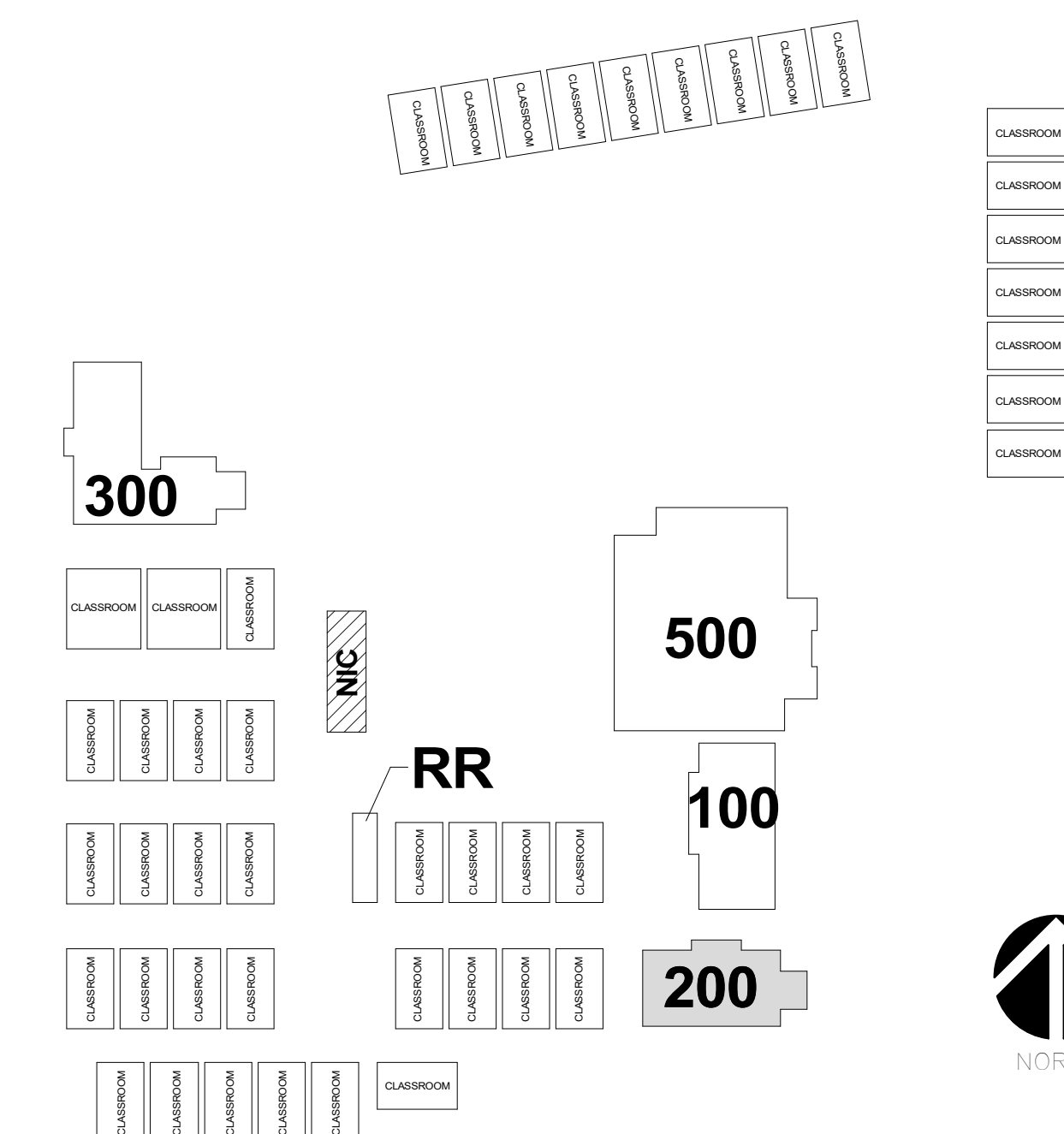
DEMOLITION KEYNOTES

- | DN# | DESCRIPTION |
|-------|---|
| DN.01 | REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT |

RENOVATION KEYNOTES

- | SN# | DESCRIPTION |
|-------|---|
| SN.01 | NEW GRADE MOUNTED AIR CONDITIONING UNIT. |
| SN.02 | PAINT EXTERIOR DUCTWORK IN WHITE. SEE GENERAL NOTES 6 |

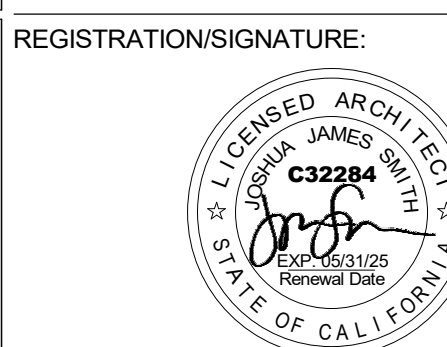
KEY PLAN



**BRENTWOOD
ELEMENTARY
SCHOOL
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SCHOOL DISTRICT**
13962 HOOK BLD.,
VICTORVILLE, CA 92394

ISSUED FOR:	DATE
DSA REVIEW SUBMITTAL	03/29/2023
DSA REVIEW	05/15/2023
DSA SUBMITTAL	08/30/23

REVISIONS:

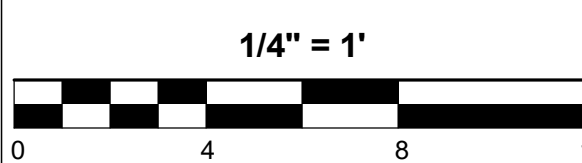


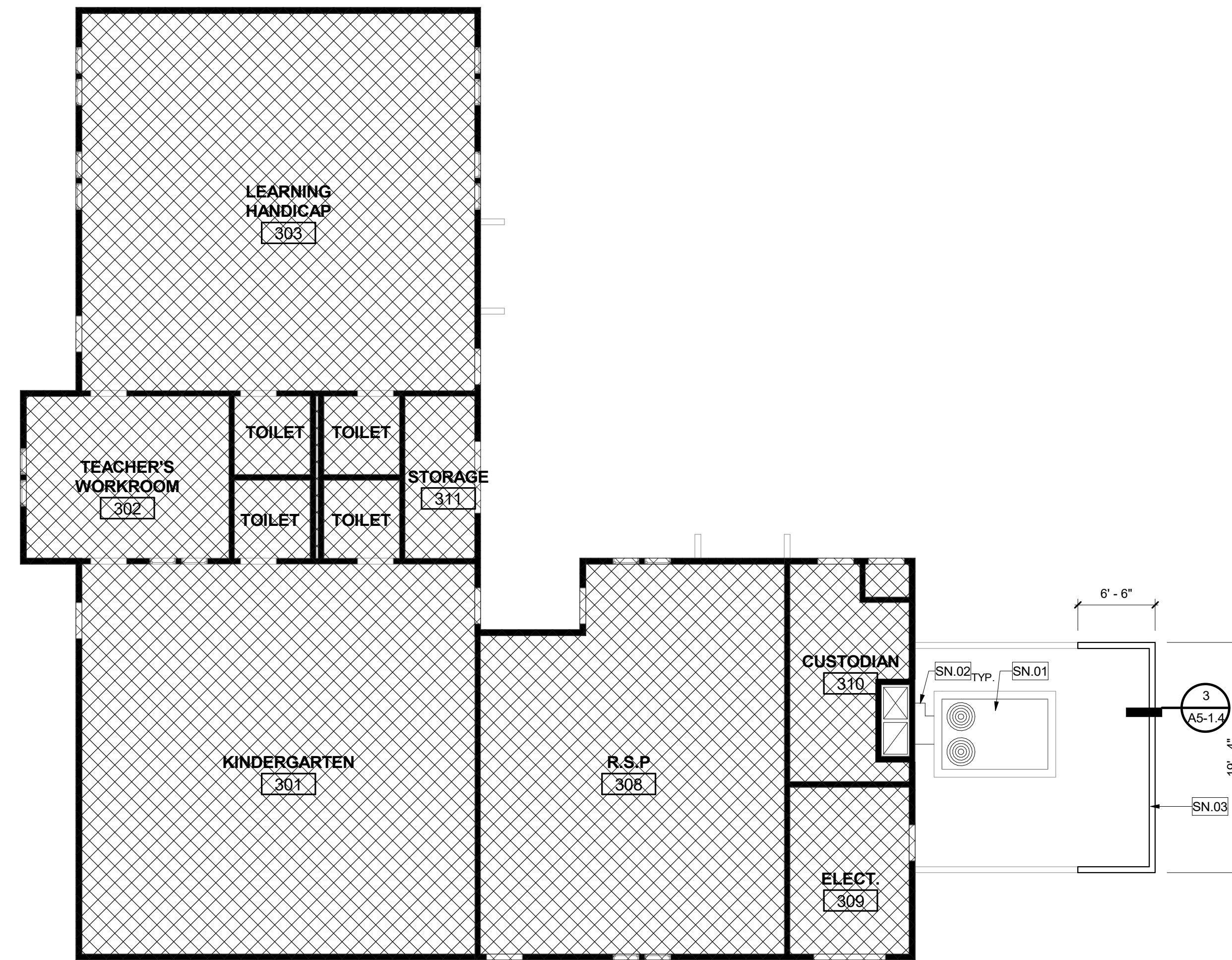
REGISTRATION/SIGNATURE:
BUILDING 200

SHEET NUMBER:
A5-1.2

WD PROJ #	DRAWN BY	CHECKED	DATE
22825	KD	MC/CW	03/29/23

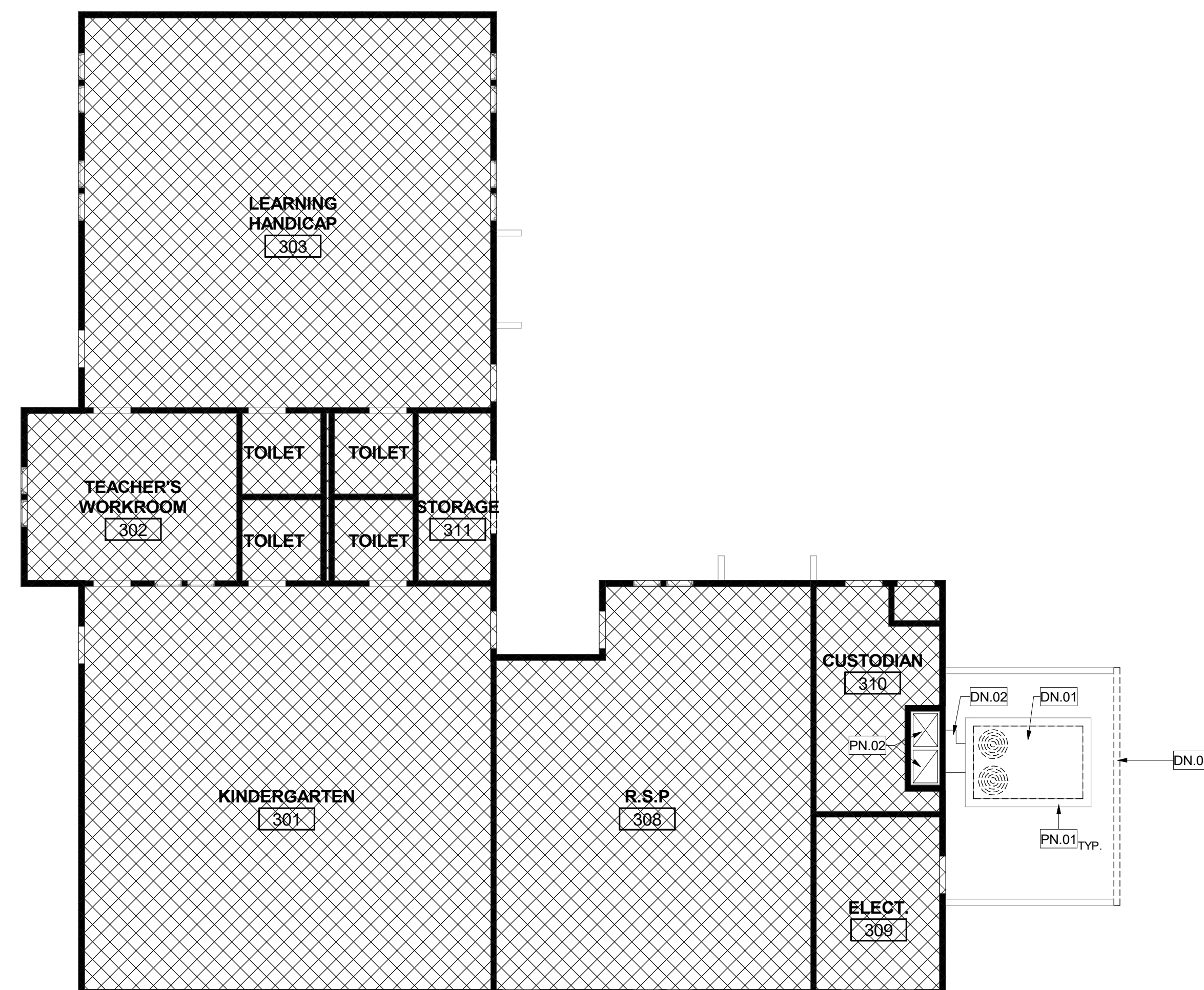
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RENOVATION FLOOR PLAN - BUILDING 300

2
1/8" = 1'-0"



DEMOLITION FLOOR PLAN - BUILDING 300

1
1/8" = 1'-0"

LEGEND

- (E) WALL TO REMAIN
- N.I.C.
- WALL TO BE DEMOLISHED

GENERAL NOTES

1. PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFG, CHAPTER 33.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.
5. REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. REFER TO MECHANICAL DRAWING FOR CEILING DIFFUSER.
6. EXTERIOR DUCT PAINT:
 - PRIMER:
 - PLAIN STEEL: TNE MEC SERIES 94-97 TNE ME-ZINC, TWO-COMPONENT CATALYZED EPOXY COATING AT 2-3.5 MILS DFT.
 - GALVANIZED STEEL: TNE MEC SERIES L69 EPOXOLINE, TWO-COMPONENT CATALYZED EPOXY COATING AT 2-3 MILS DFT.
 - FINISH COATING: TNE MEC SERIES 1095 ENDURA-SHIELD, PIGMENTED, ALIPHATIC, POLYURETHANE COATING, SEMI-GLOSS SHEEN AT 3MILS DFT MINIMUM.
 - FINISH COLORS: AS INDICATED ON THE DRAWINGS
 - OR APPROVED EQUAL

PROTECTION KEYNOTES

PN#	DESCRIPTION
PN.01	(E) CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION
PN.02	(E) INTERIOR DUCTWORK TO REMAIN

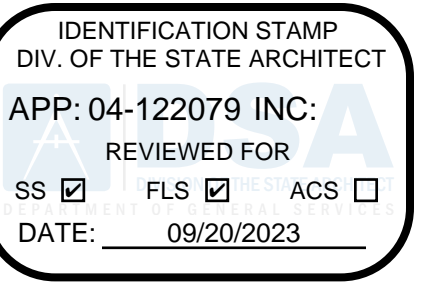
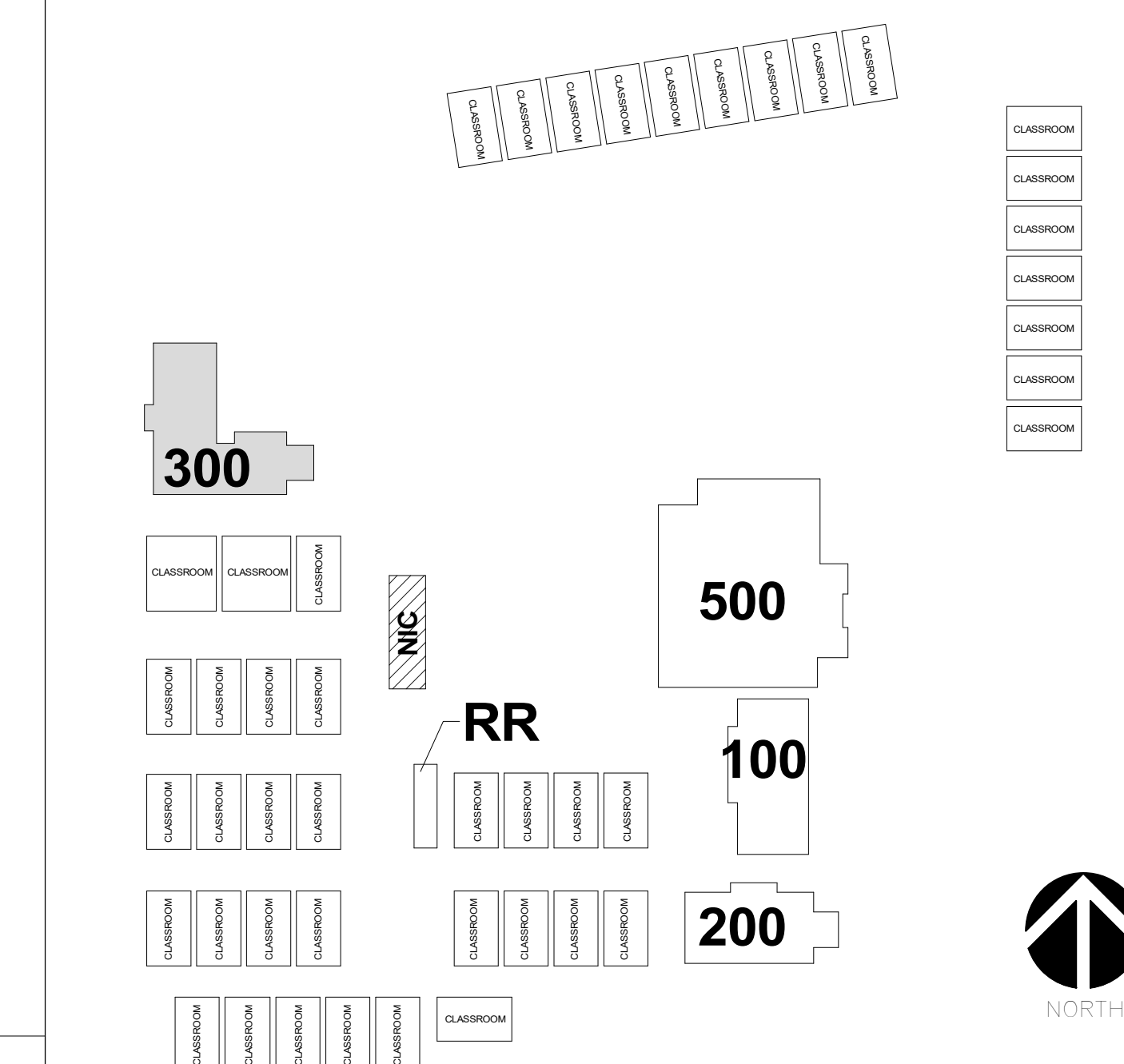
DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT
DN.02	REMOVE EXISTING EXPOSED DUCTWORK AND ACCESSORIES IN ITS ENTIRETY
DN.03	DEMO OF EXISTING WALL

RENOVATION KEYNOTES

SN#	DESCRIPTION
SN.01	NEW GRADE MOUNTED AIR CONDITIONING UNIT.
SN.02	NEW EXPOSED DUCTWORK PER MECHANICAL DRAWINGS. PAINT EXTERIOR DUCTWORK IN WHITE. SEE GENERAL NOTES 6
SN.03	NEW CMU WALL, SEE 3/A5-1.4

KEY PLAN

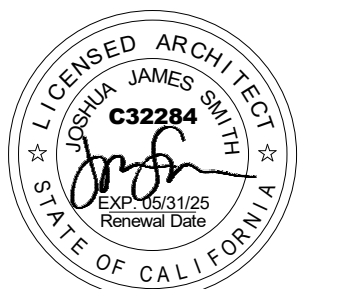


**BRENTWOOD
ELEMENTARY
SCHOOL
VICTOR
ELEMENTARY
SCHOOL DISTRICT**
13962 HOOK BLD.,
VICTORVILLE, CA 92394

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DSA REVIEW	05/15/2023
DSA SUBMITTAL	06/02/23

REVISIONS:

REGISTRATION/SIGNATURE:



SHEET TITLE:

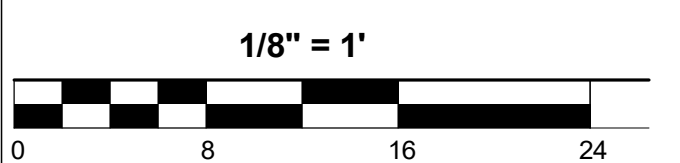
BUILDING 300

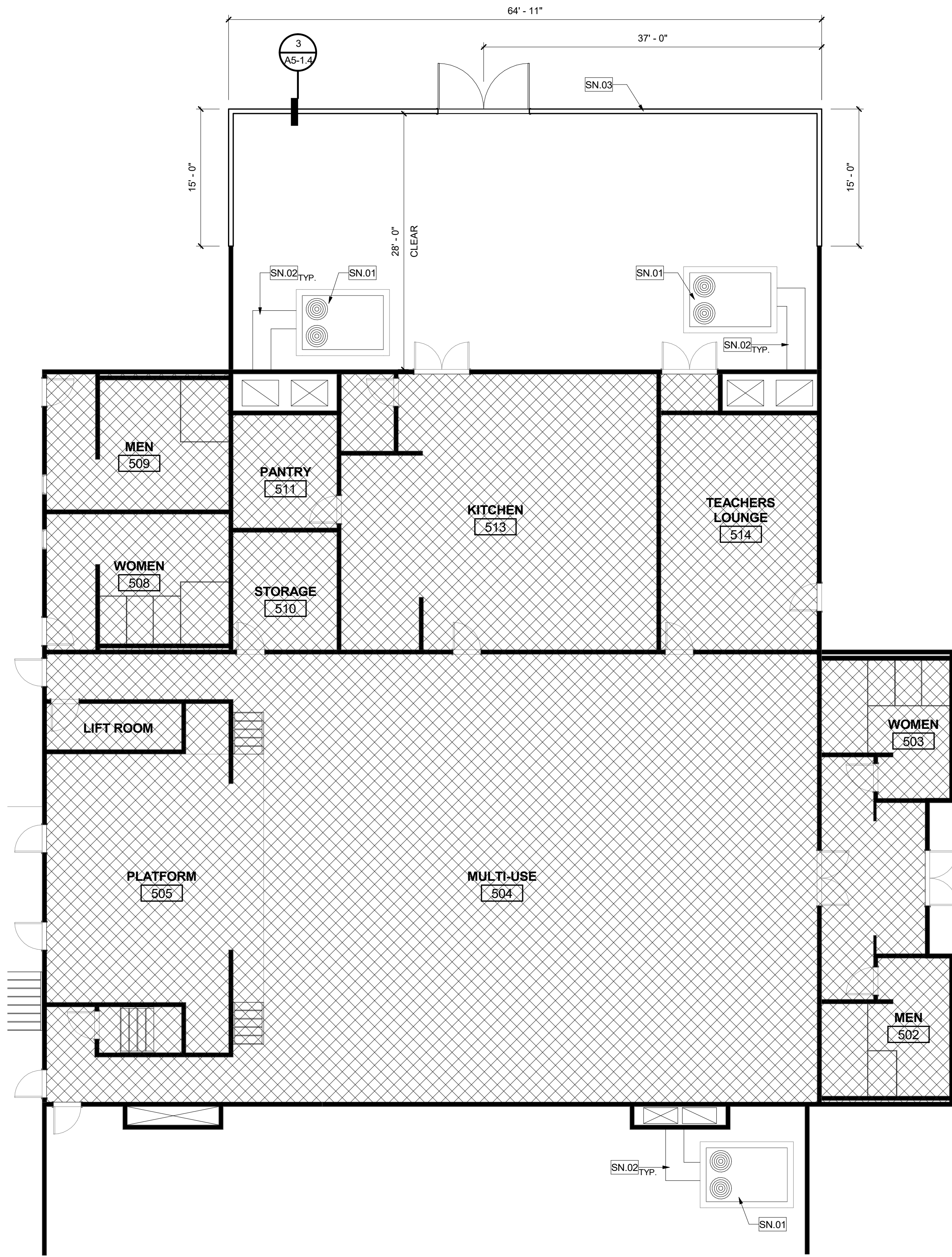
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WD PROJ #	DRAWN BY	CHECKED	DATE
22825	KD	MC/CW	03/29/23

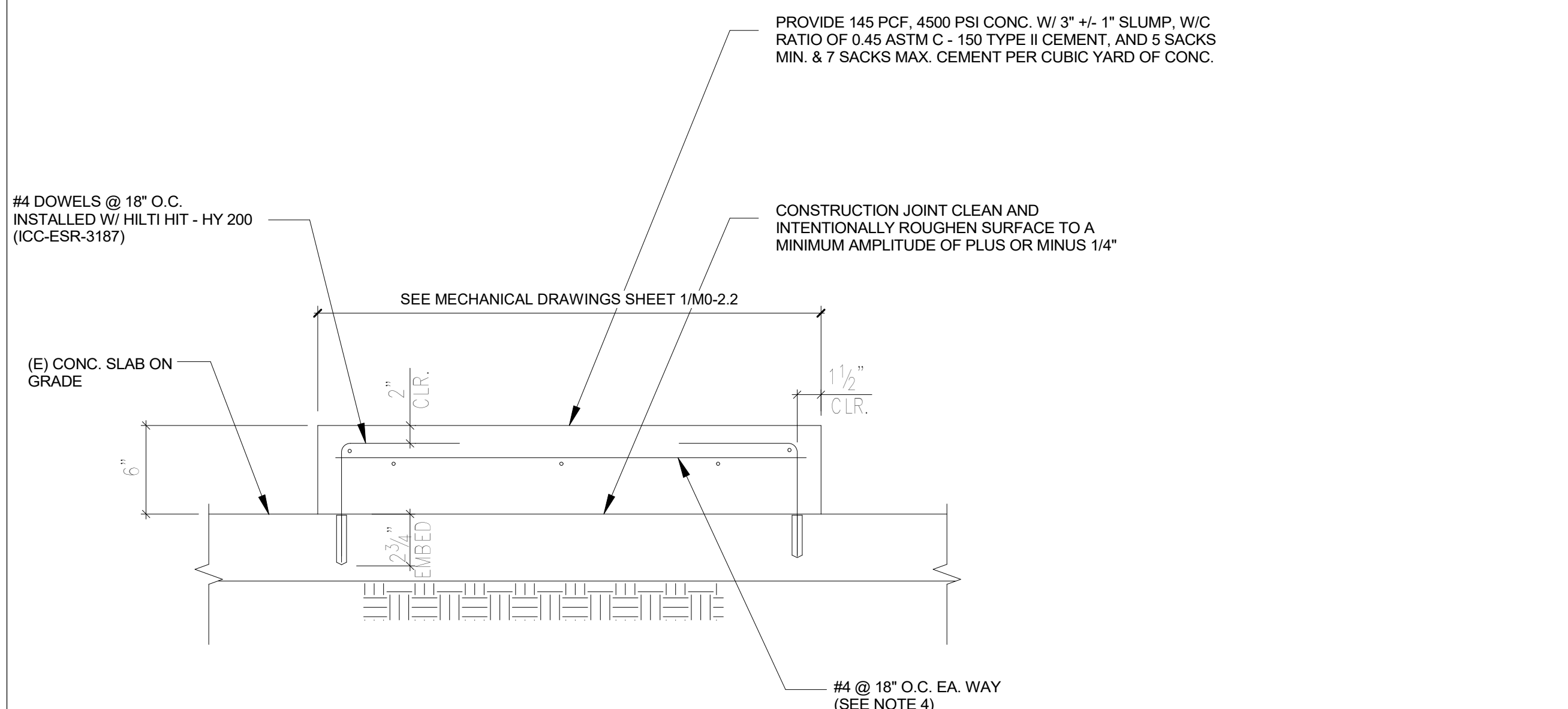
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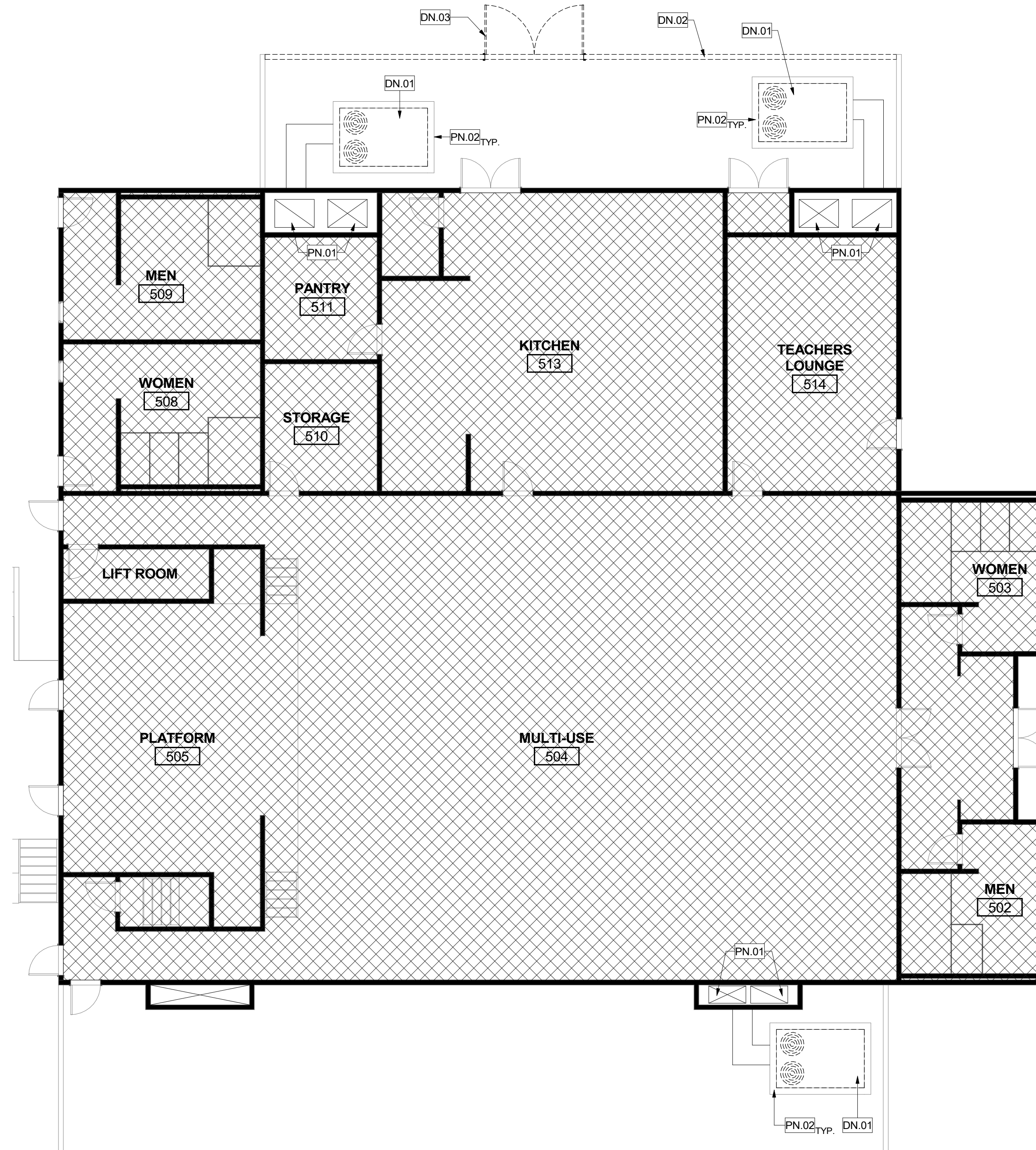
RENOVATION FLOOR PLAN - BUILDING 500

2
1/8" = 1'-0"



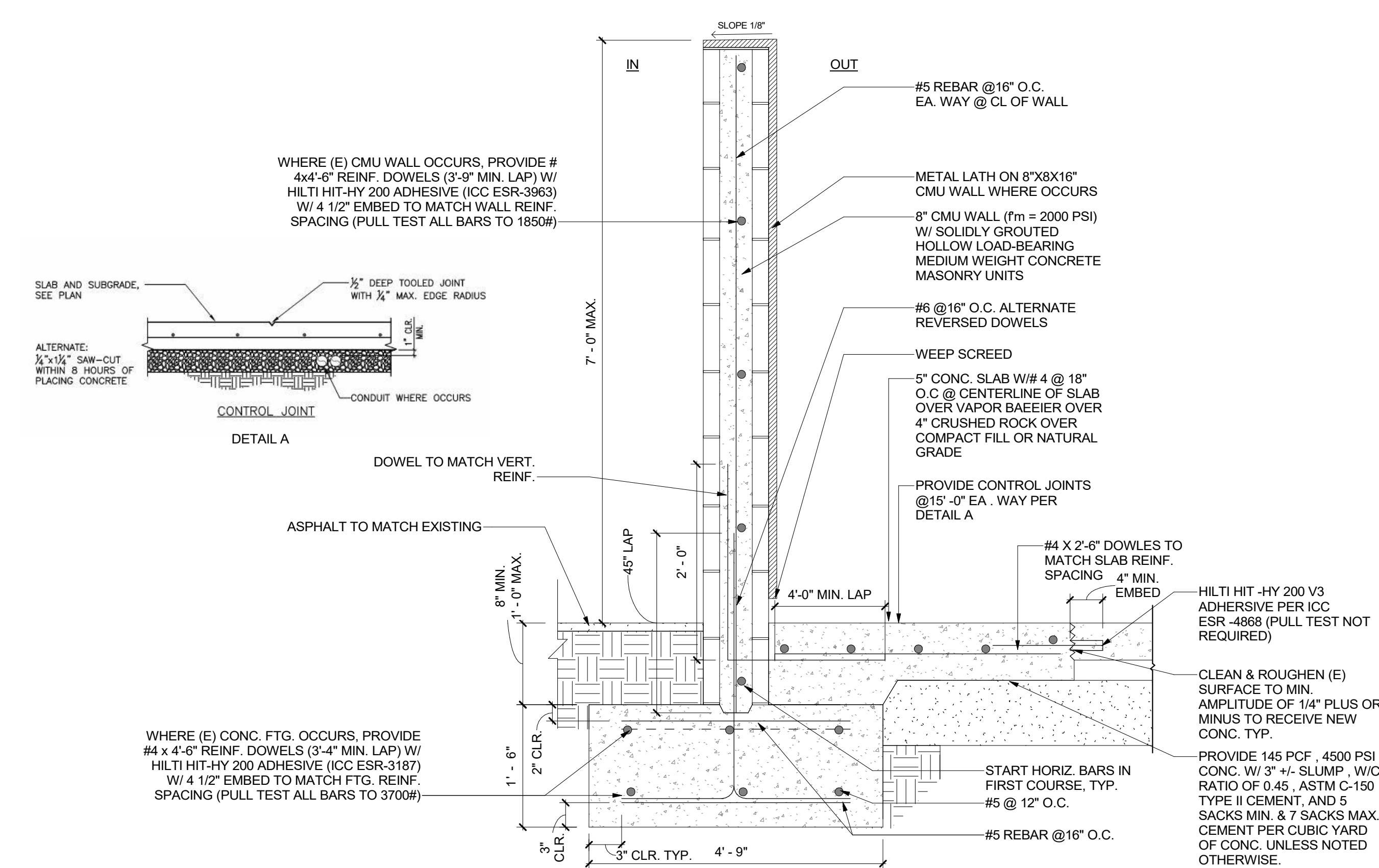
CONCRETE PADS AT (E) SLAB

4



DEMOLITION FLOOR PLAN - BUILDING 500

1
1/8" = 1'-0"



DECORATIVE CMU WALL

3
1" = 1'-0"

LEGEND

- (E) WALL TO REMAIN
- N.I.C.
- WALL TO BE DEMOLISHED

GENERAL NOTES

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- EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
- FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFG, CHAPTER 33.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.
- REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. REFER TO MECHANICAL DRAWING FOR CEILING DIFFUSER.
- EXTERIOR DUCT PAINT:
 - PRIMER:
 - PLAIN STEEL: TMEC SERIES 94-97 TMEC-ZINC, TWO-COMPONENT CATALYZED EPOXY COATING AT 2.5-3.5 MILS DFT.
 - GALVANIZED STEEL: TMEC SERIES L69 EPOXOLINE, TWO-COMPONENT CATALYZED EPOXY COATING AT 2-3 MILS DFT.
 - FINISH COATING: TMEC SERIES 1095 ENDURA-SHIELD, PIGMENTED, ALIPHATIC, POLYURETHANE COATING, SEMI-GLOSS SHEEN AT 3MILS DFT MINIMUM.
 - FINISH COLORS: AS INDICATED ON THE DRAWINGS
 - OR APPROVED EQUAL

PROTECTION KEYNOTES

PN#	DESCRIPTION
PN.01	(E) INTERIOR DUCTWORK TO REMAIN
PN.02	(E) CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION

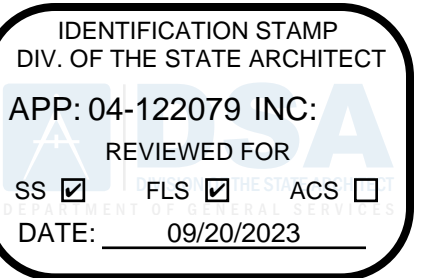
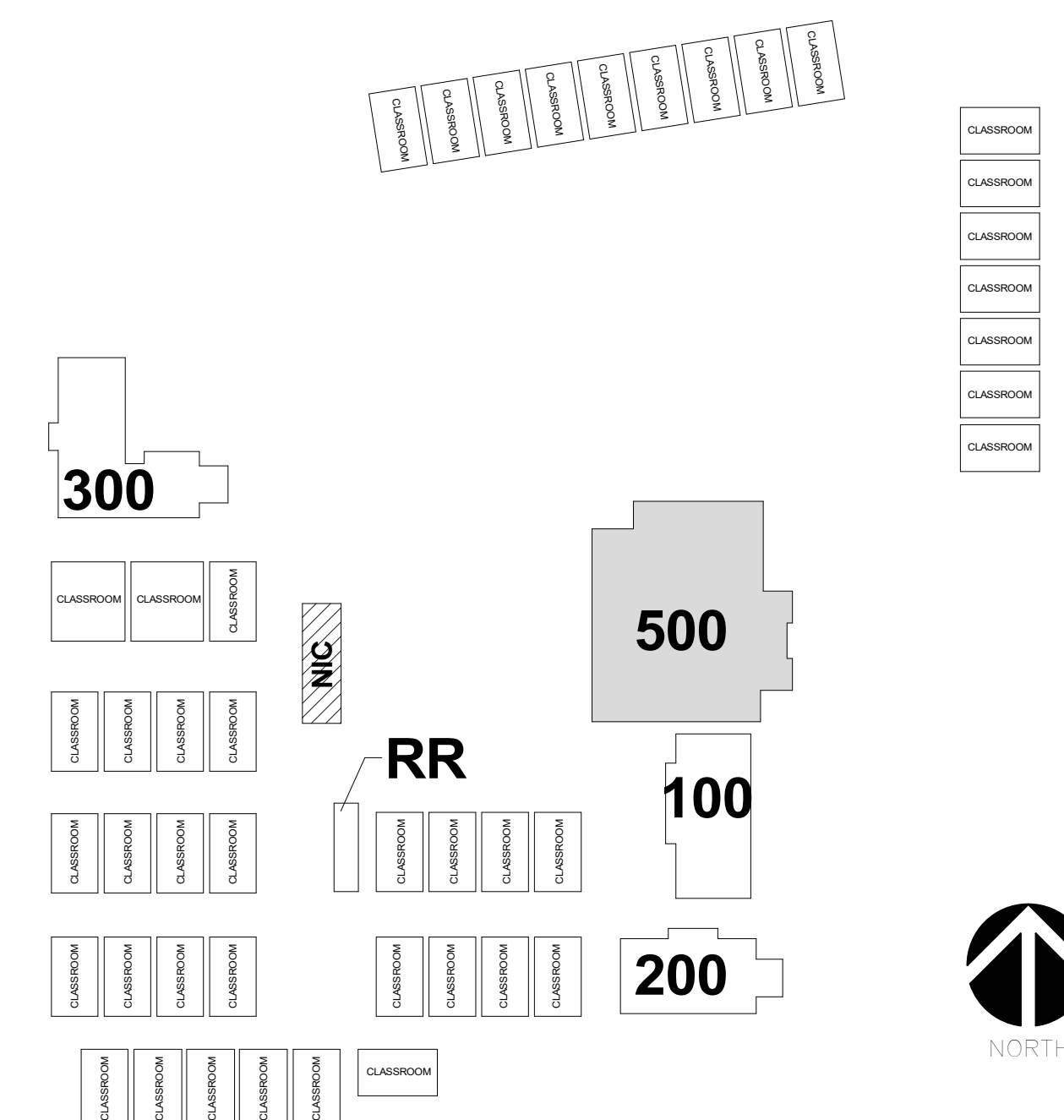
DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT
DN.02	PARTIAL DEMO OF EXISTING WALL
DN.03	REMOVE EXISTING GATE. TO BE REINSTALL AT NEW LOCATION OF CMU WALL

RENOVATION KEYNOTES

SN#	DESCRIPTION
SN.01	NEW GRADE MOUNTED AIR CONDITIONING UNIT.
SN.02	PAINT EXTERIOR DUCTWORK IN WHITE. SEE GENERAL NOTES 6
SN.03	NEW CMU WALL. SEE 3/A5-1.4

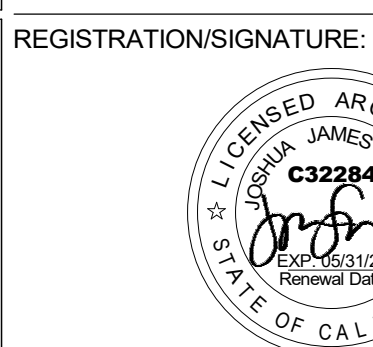
KEY PLAN



BRENTWOOD ELEMENTARY SCHOOL
VICTOR ELEMENTARY SCHOOL DISTRICT
13962 HOOK BLVD., VICTORVILLE, CA 92394

ISSUED FOR:	DATE
DSA REVIEW SUBMITTAL	03/29/2023
DSA REVIEW	06/15/2023
DSA SUBMITTAL	08/30/23

REVISIONS:



SHEET TITLE:

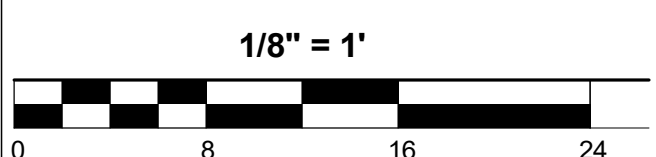
BUILDING 500

SHEET NUMBER:

A5-1.4

WD PROJ #	DRAWN BY	CHECKED	DATE
22825	KD	MC/CW	03/29/23

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GENERAL NOTES

1. PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.
5. REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. REFER TO MECHANICAL DRAWING FOR CEILING DIFFUSER.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-122079 INC:
REVIEWED FOR
SS FLS ACS
DATE: 09/20/2023

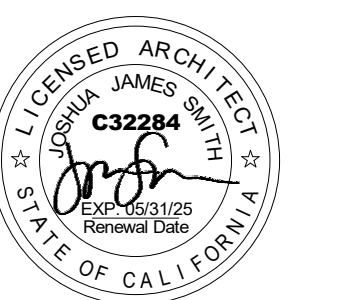
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Irvine | California | 92612
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**BRENTWOOD
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13962 HOOK BLD,
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ISSUED FOR:
DSA REVIEW SUBMITAL 03/29/2023
DSA REVIEW 06/15/2023
DSA SUBMITTAL 08/30/23

REVISIONS:

REGISTRATION/SIGNATURE:



SHEET TITLE:

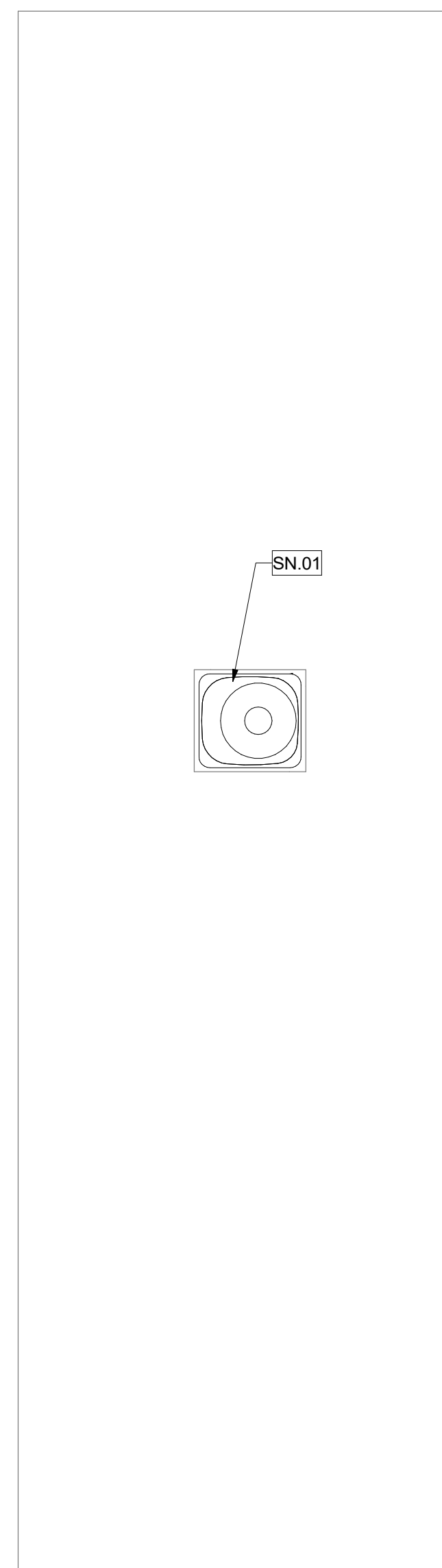
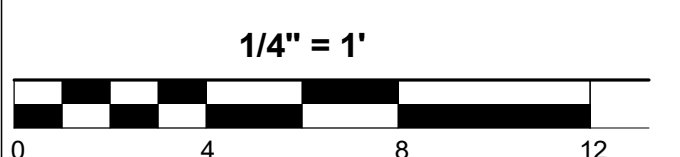
**RESTROOM
BUILDING**

SHEET NUMBER:

A5-1.5

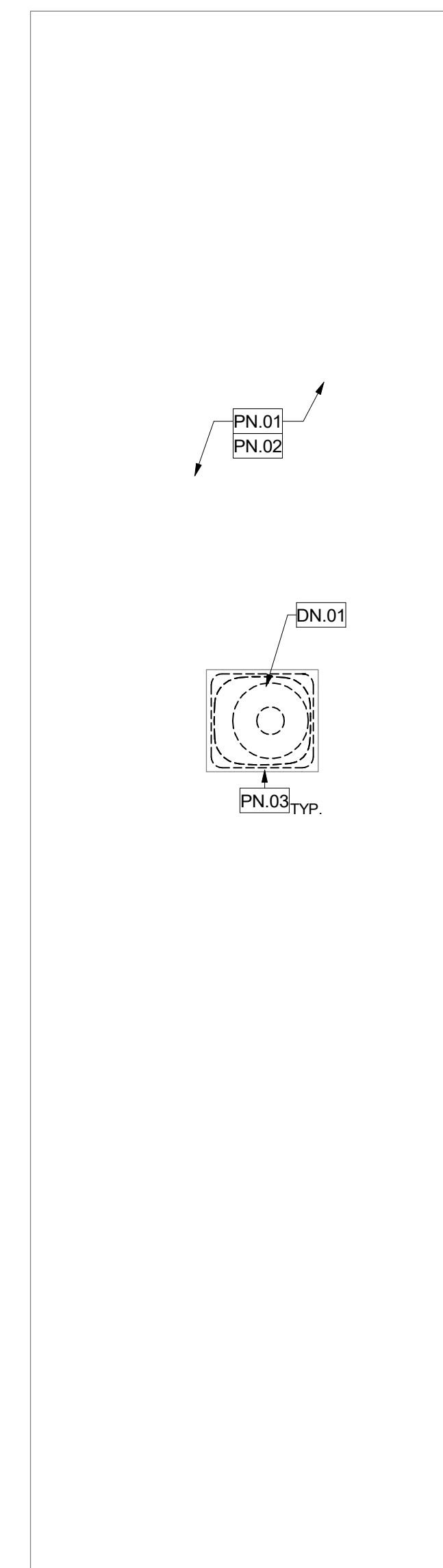
WD PROJ # 22825 | DRAWN BY: KD | CHECKED: MC/CW | DATE: 03/29/23

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RENOVATION ROOF PLAN - RESTROOM BUILDING

2
1/4" = 1'-0"



DEMOLITION ROOF PLAN - RESTROOM BUILDING

1
1/4" = 1'-0"

PROTECTION KEYNOTES / PN.#

PN#	DESCRIPTION
PN.01	(E) BUILT-UP ROOFING TO REMAIN
PN.02	(E) INTERIOR DUCTWORK TO REMAIN
PN.03	(E) ROOF CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION

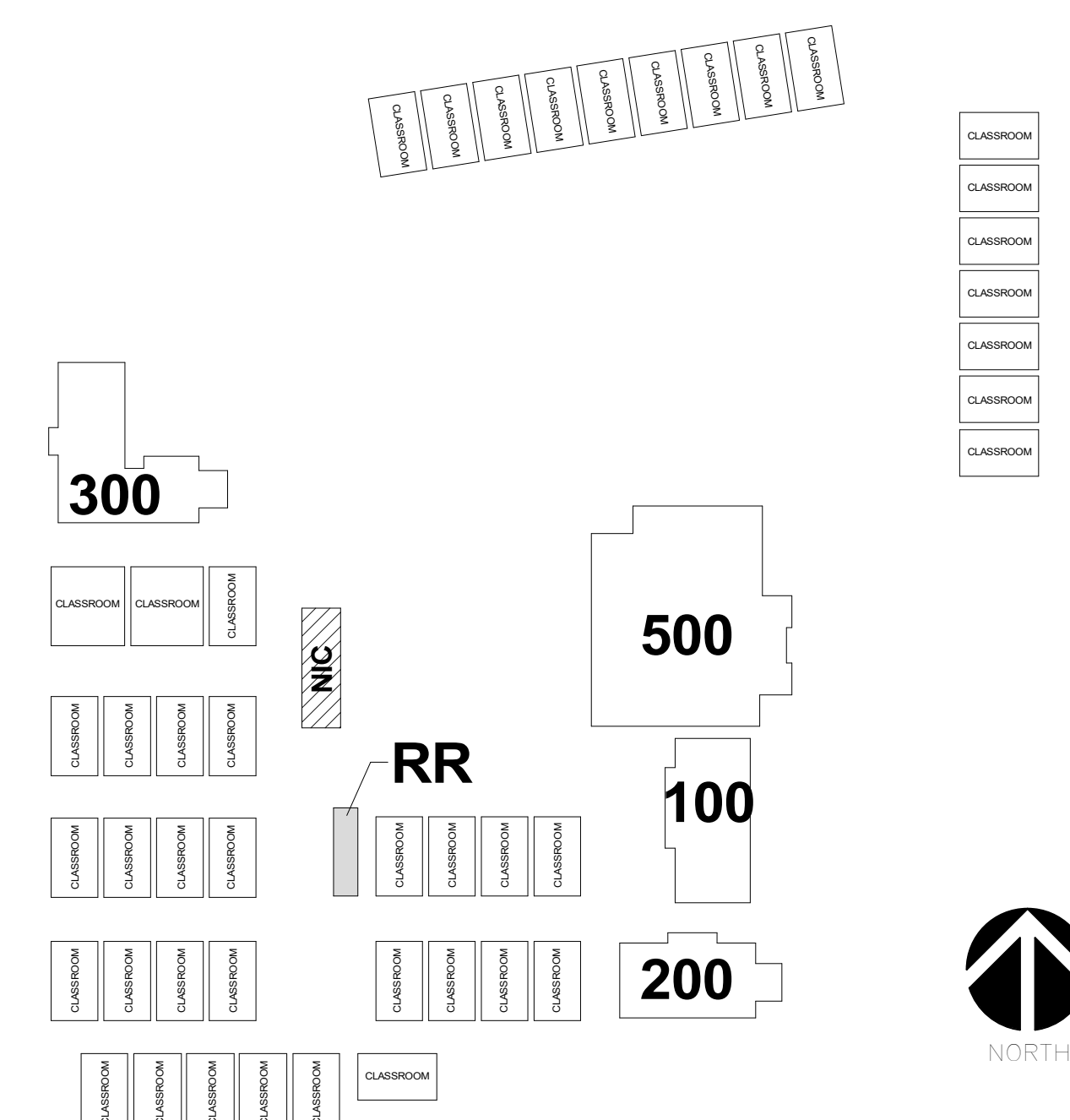
DEMOLITION KEYNOTES / DN.#

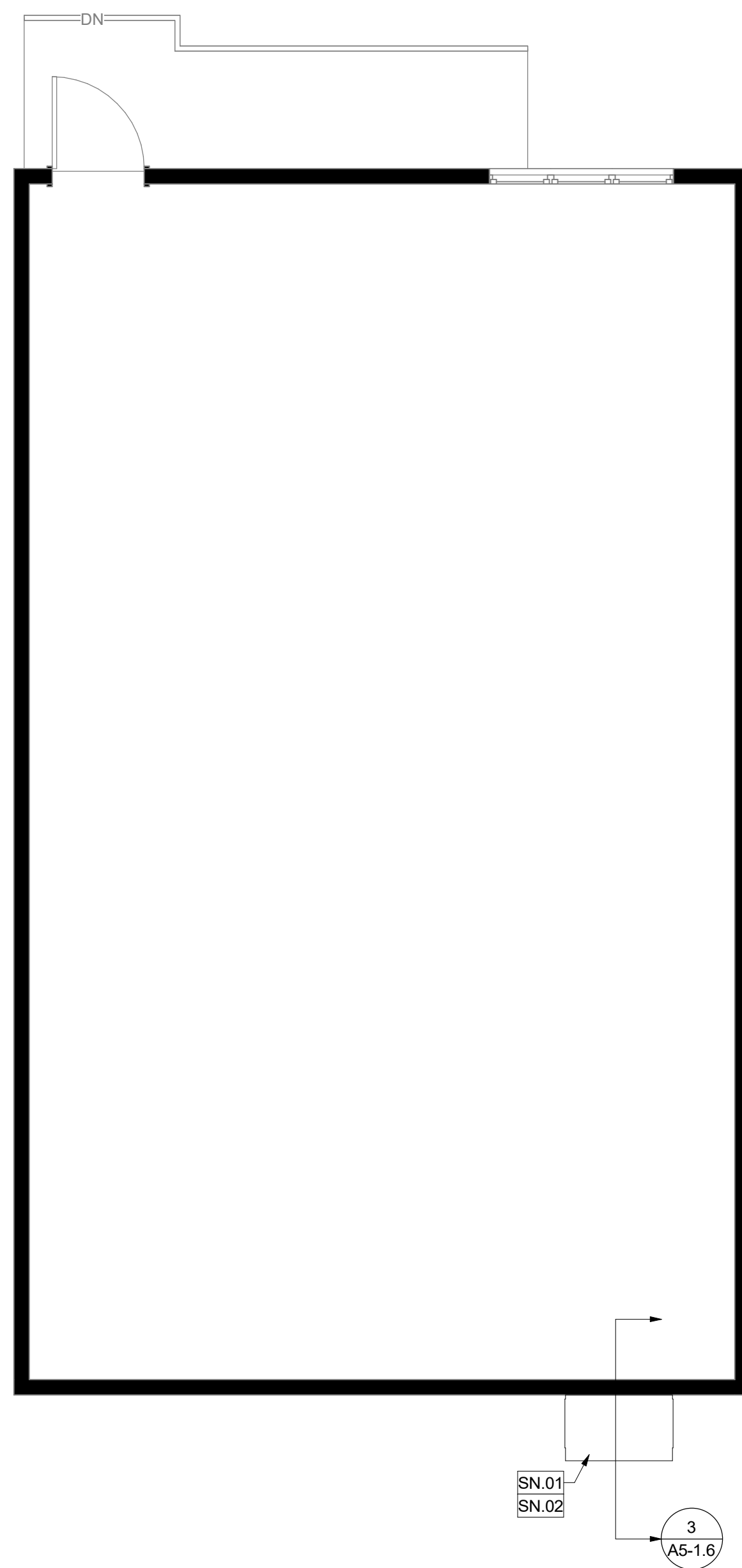
DN#	DESCRIPTION
DN.01	REMOVE EXISTING ROOFTOP HEAT PUMP UNIT. REFER TO MECHANICAL FOR SCOPE OF WORK

RENOVATION KEYNOTES / SN.#

SN#	DESCRIPTION
SN.01	NEW ROOFTOP HEAT PUMP UNIT AND PAINT EXTERIOR DUCTWORK IN WHITE

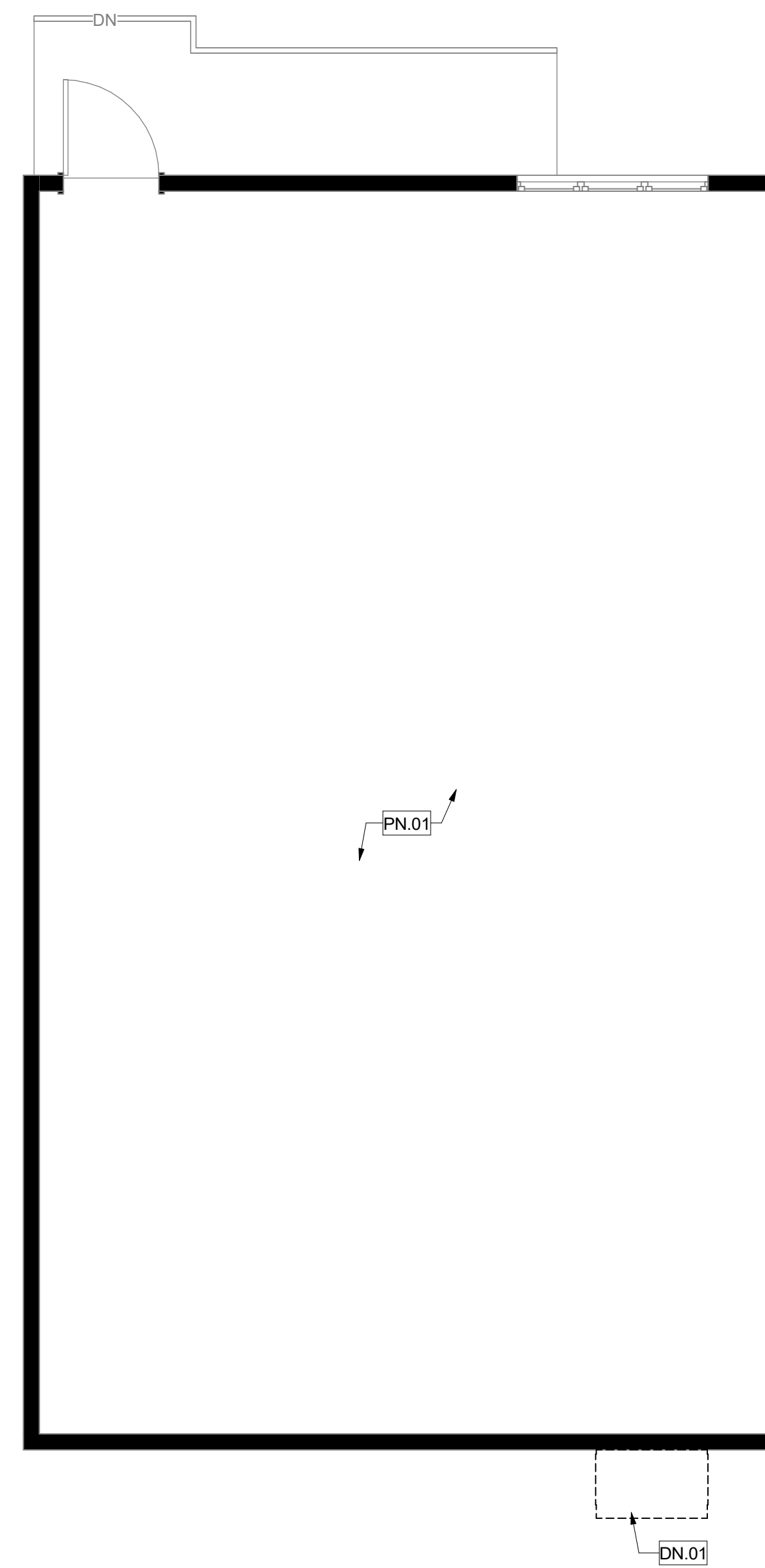
KEY PLAN





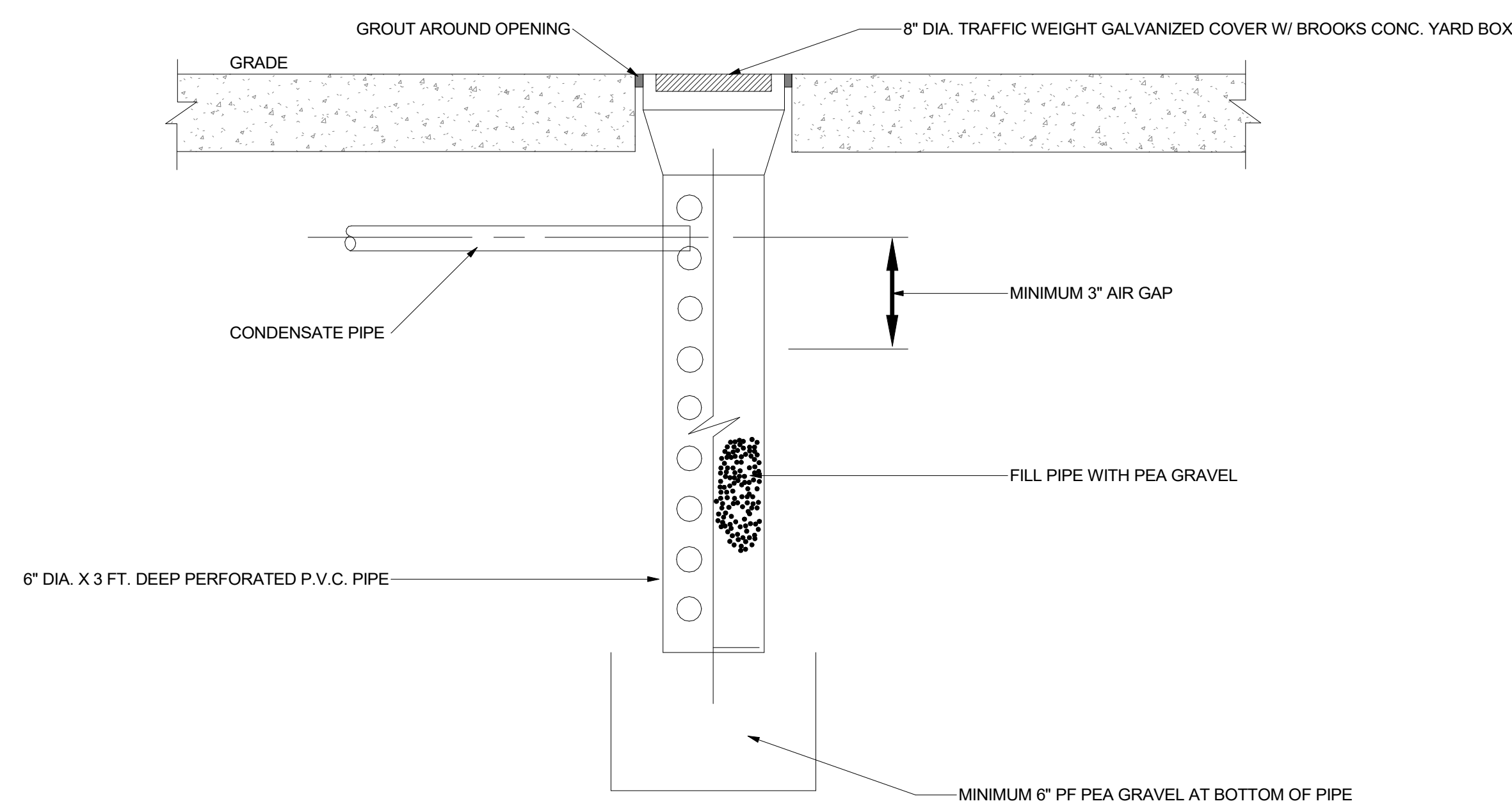
RENOVATION FLOOR PLAN - RELOCATABLE (SINGLE UNIT)

2
1/4" = 1'-0"



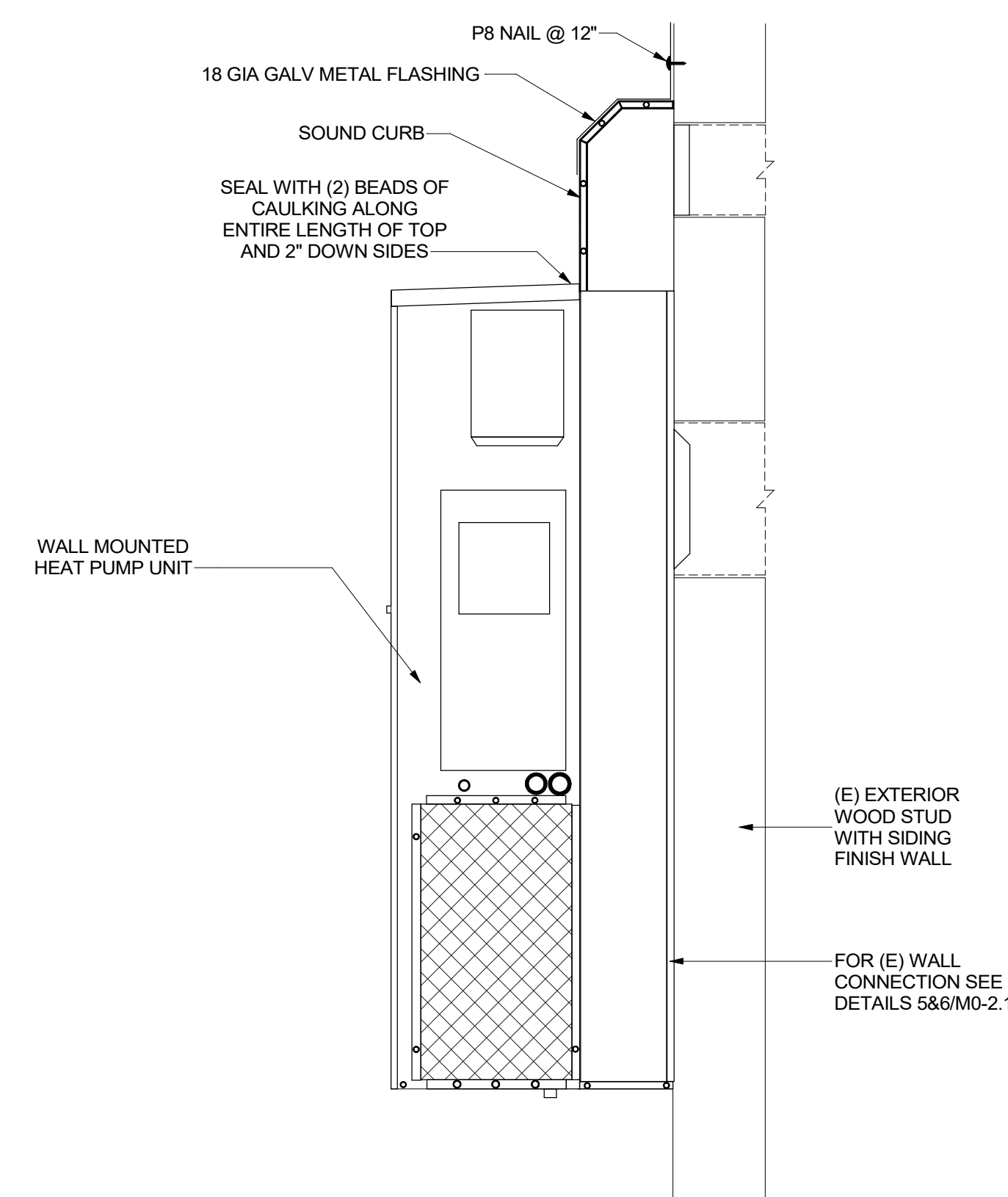
DEMOLITION FLOOR PLAN - RELOCATABLE (SINGLE UNIT)

1
1/4" = 1'-0"



DRYWELL DETAIL

4
6" = 1'-0"



BARD A/C UNIT INSTALLATION DETAILS

3
6" = 1'-0"

GENERAL NOTES

1. PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.
5. REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. REFER TO MECHANICAL DRAWING FOR CEILING DIFFUSER.

PROTECTION KEYNOTES

PN#	DESCRIPTION
PN.01	(E) INTERIOR DUCTWORK TO REMAIN

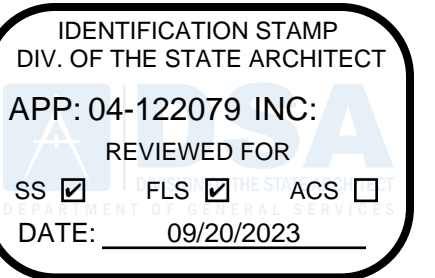
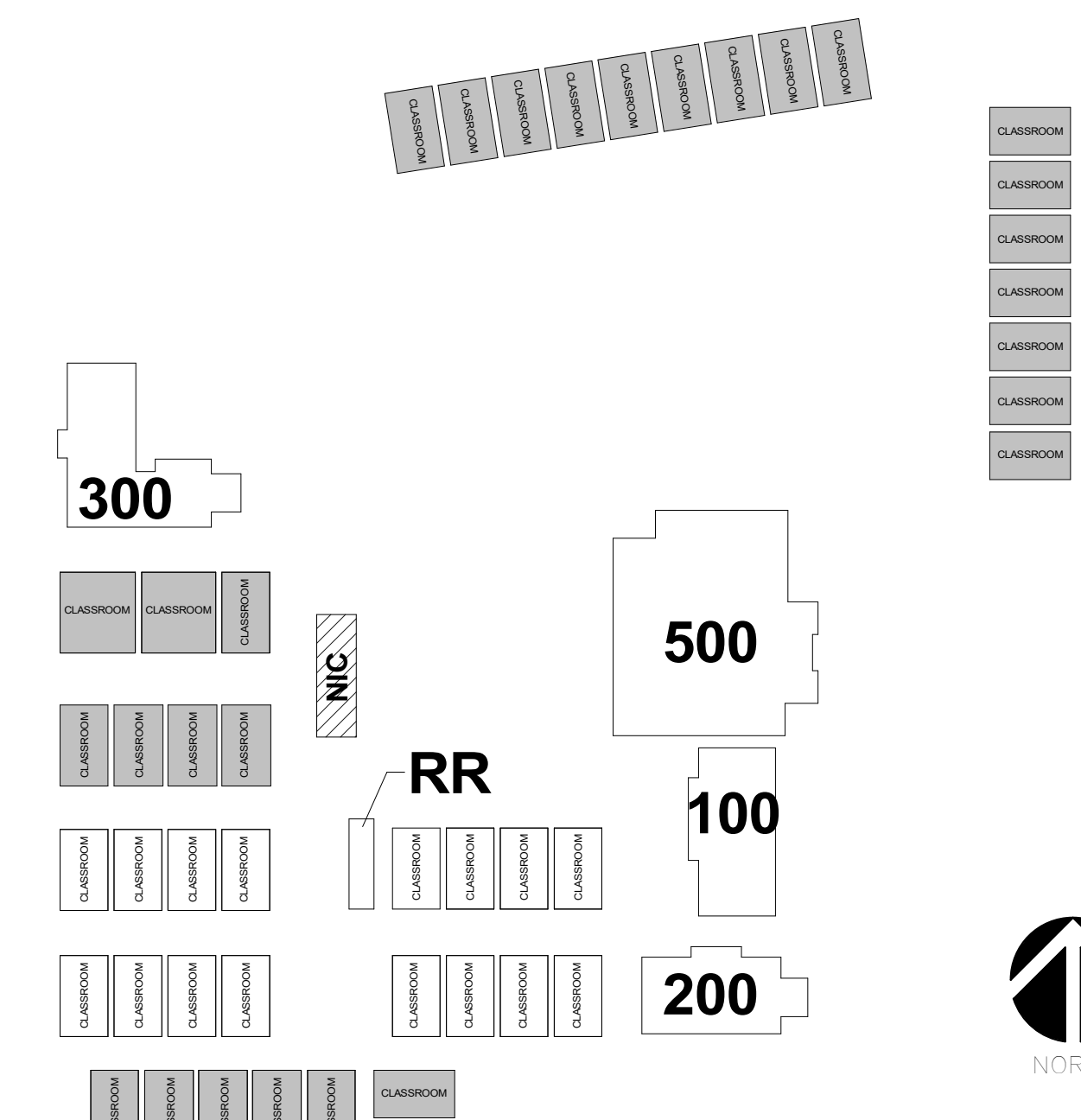
DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING WALL MOUNTED HEAT PUMP UNIT

RENOVATION KEYNOTES

SN#	DESCRIPTION
SN.01	NEW WALL MOUNTED HEAT PUMP UNIT
SN.02	PROVIDE DRYWELL AT HARDSCAPE TO CAPTURE CONDENSATE RUN-OFF PER 4/AS-1.6

KEY PLAN



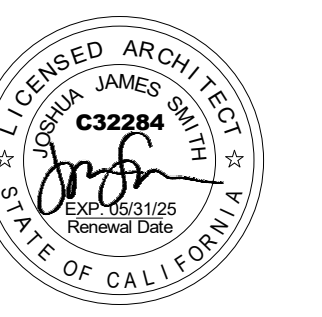
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VICTORVILLE, CA 92394

ISSUED FOR:	DATE
DSA REVIEW SUBMITTAL	03/29/2023
DSA REVIEW	05-15-2023
DSA SUBMITTAL	06/02/23

REVISIONS:

REGISTRATION/SIGNATURE:

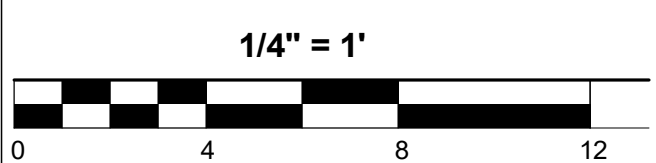


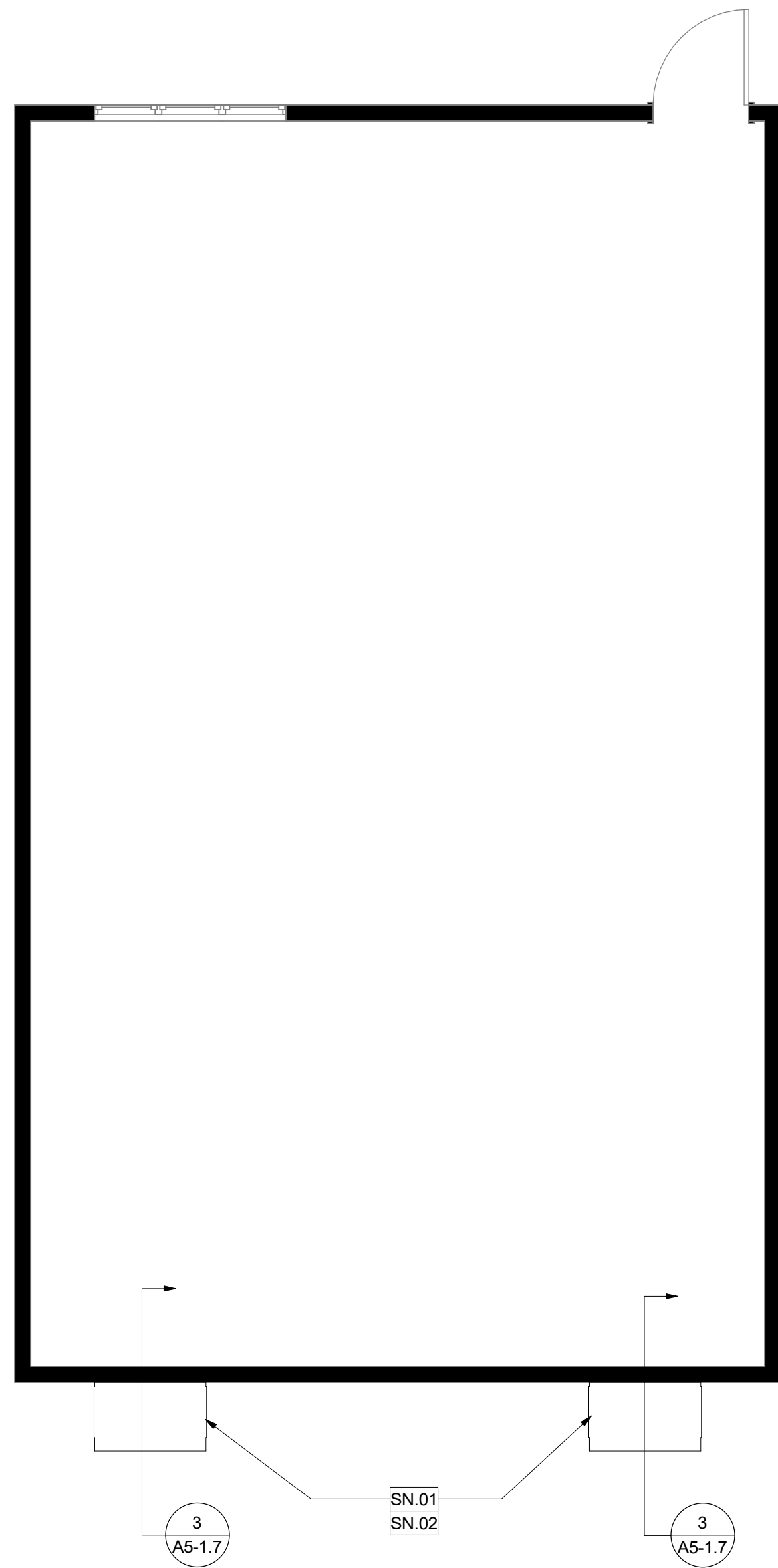
SHEET TITLE:
**RELOCATABLE
CLASSROOMS
(SINGLE UNIT)**

SHEET NUMBER:
A5-1.6

WD PROJ #	DRAWN BY	CHECKED	DATE
22825	KD	MC/CW	03/29/23

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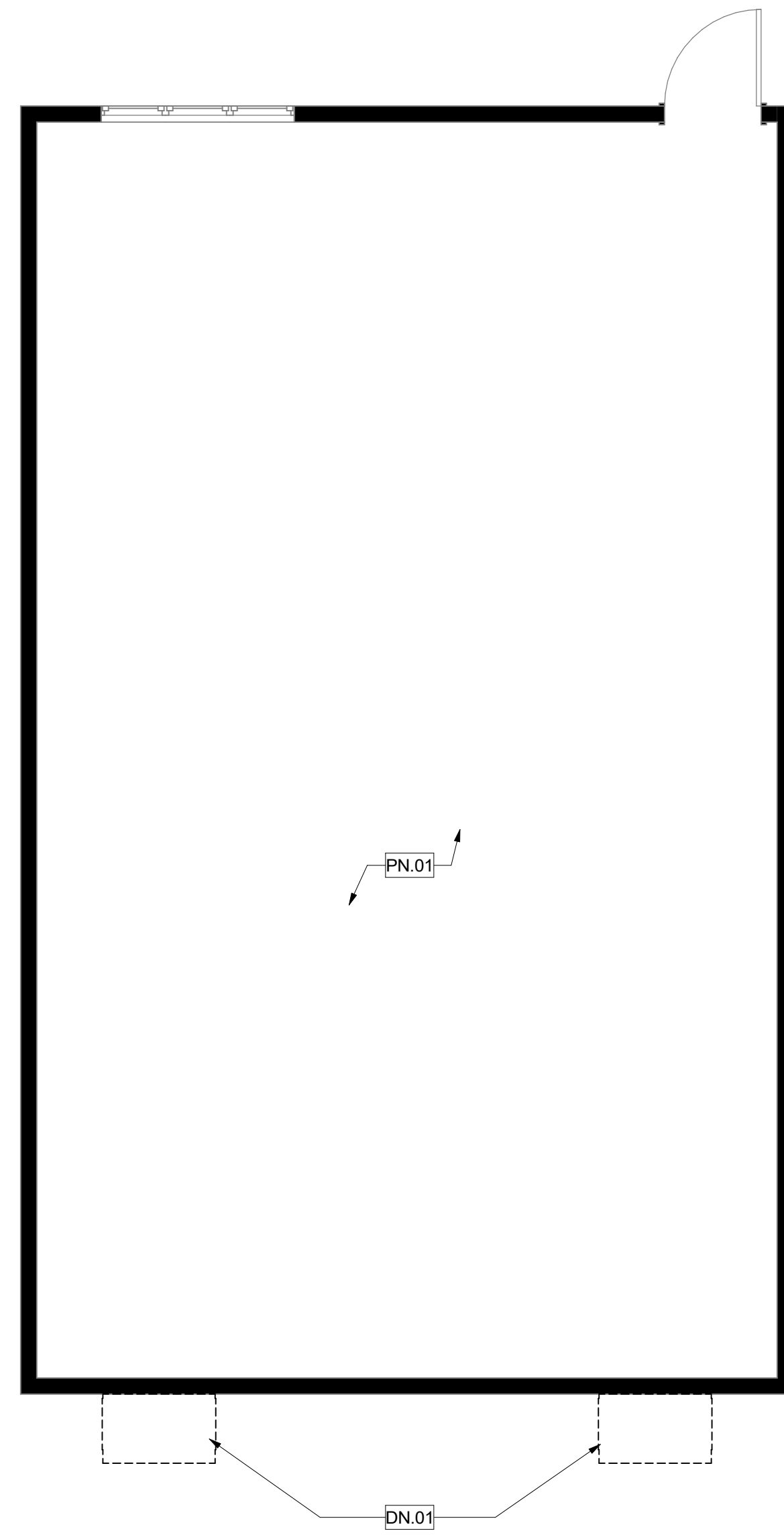




RENOVATION FLOOR PLAN - RELOCATABLE (DUAL UNIT)

2

1/4" = 1'-0"



DEMOLITION FLOOR PLAN - RELOCATABLE (DUAL UNIT)

1

1/4" = 1'-0"

GENERAL NOTES

- PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
- EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
- FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.
- REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. REFER TO MECHANICAL DRAWING FOR CEILING DIFFUSER.

PROTECTION KEYNOTES

PN#	DESCRIPTION
PN.01	(E) INTERIOR DUCTWORK TO REMAIN

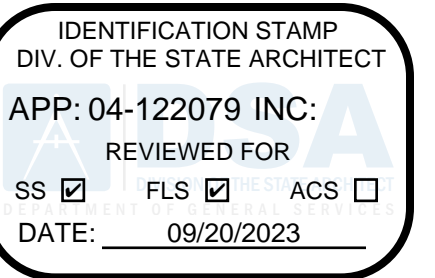
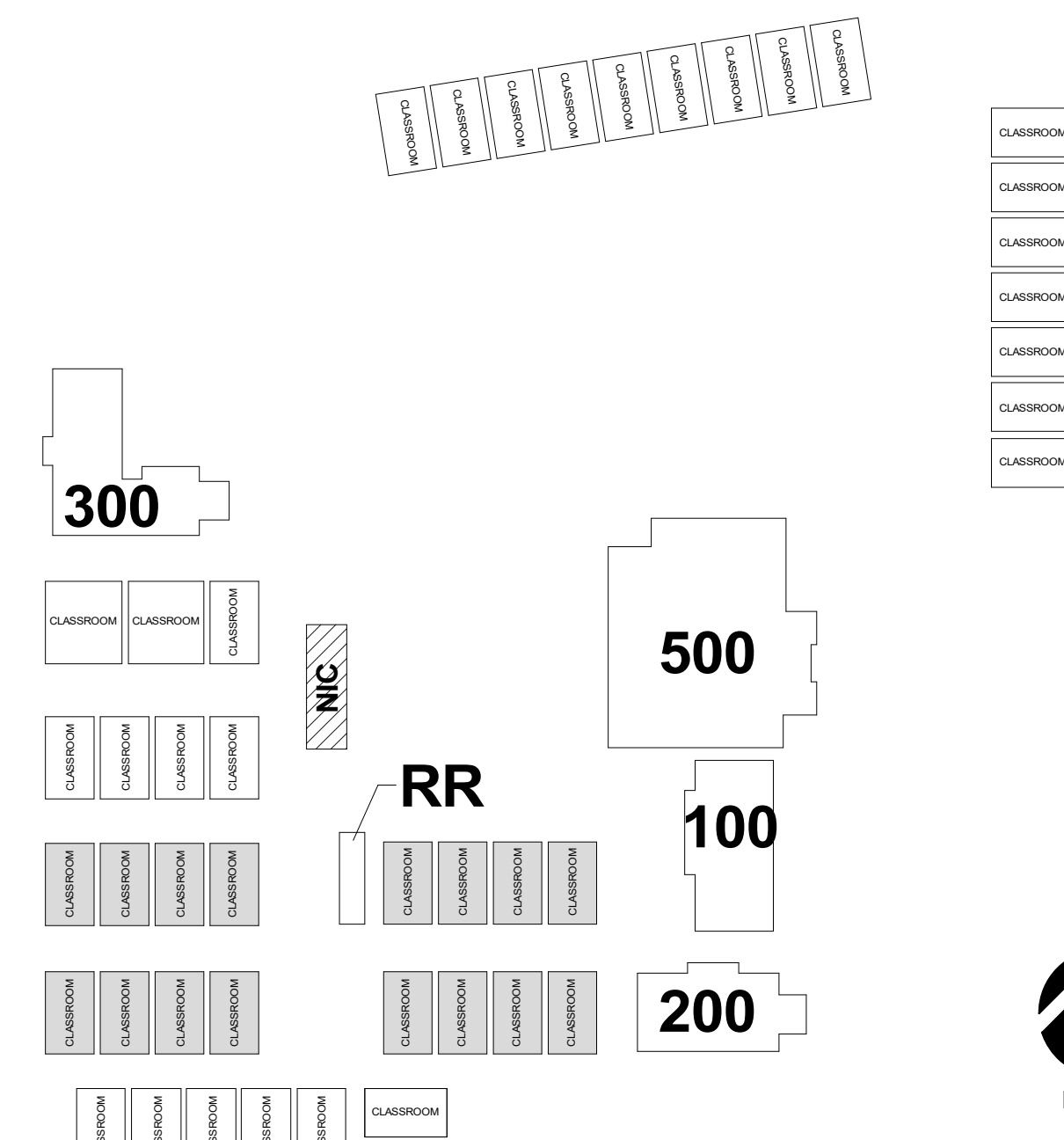
DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT

RENOVATION KEYNOTES

SN#	DESCRIPTION
SN.01	NEW WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT
SN.02	PROVIDE DRYWELL AT HARDSCAPE TO CAPTURE CONDENSATE RUN-OFF PER 4/A5-1.6

KEY PLAN



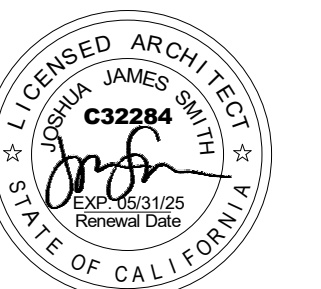
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DSA SUBMITTAL	08/02/23

REVISIONS:

REGISTRATION/SIGNATURE:

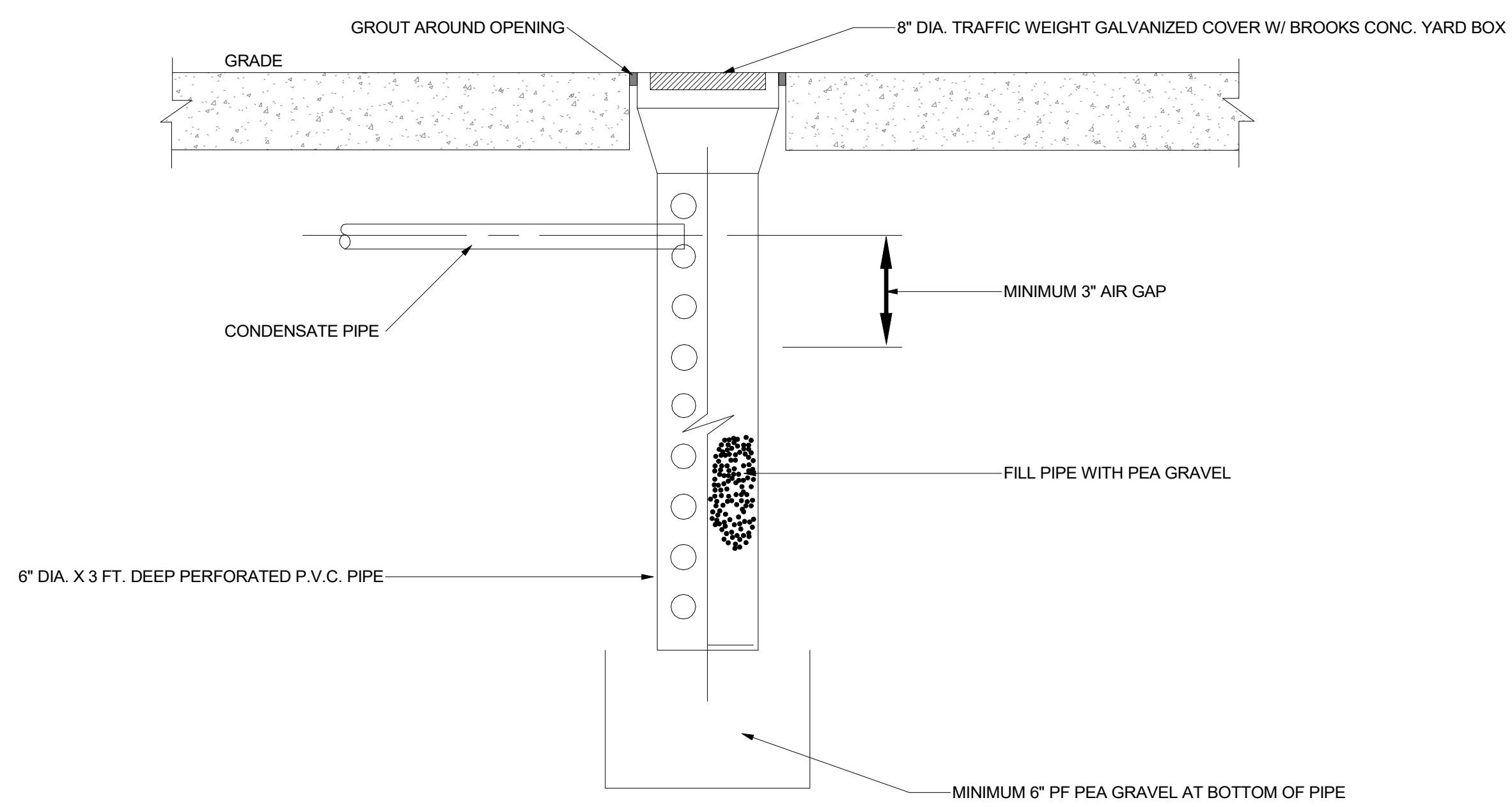


SHEET TITLE:
RELOCATABLE
CLASSROOMS (DUAL
UNIT)

SHEET NUMBER:
A5-1.7

WD PROJ #	DRAWN BY	CHECKED	DATE
22825	KD	MC/CW	03/29/23

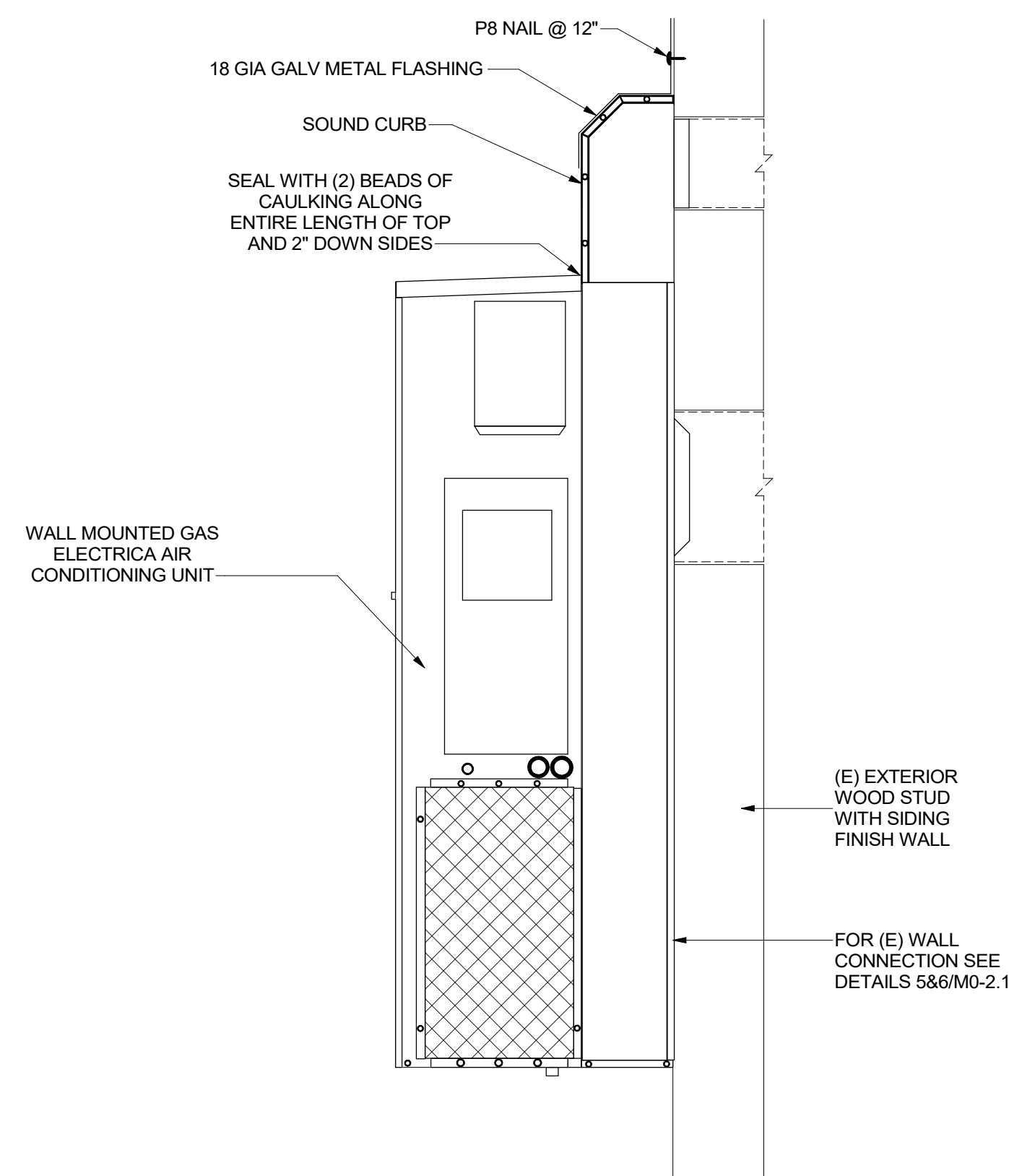
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DRYWELL DETAILS

4

6" = 1'-0"

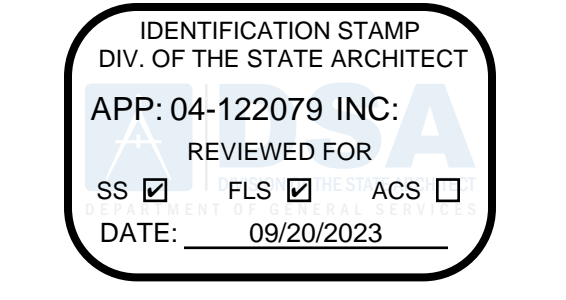


BARD A/C UNIT INSTALLATION DETAIL

3

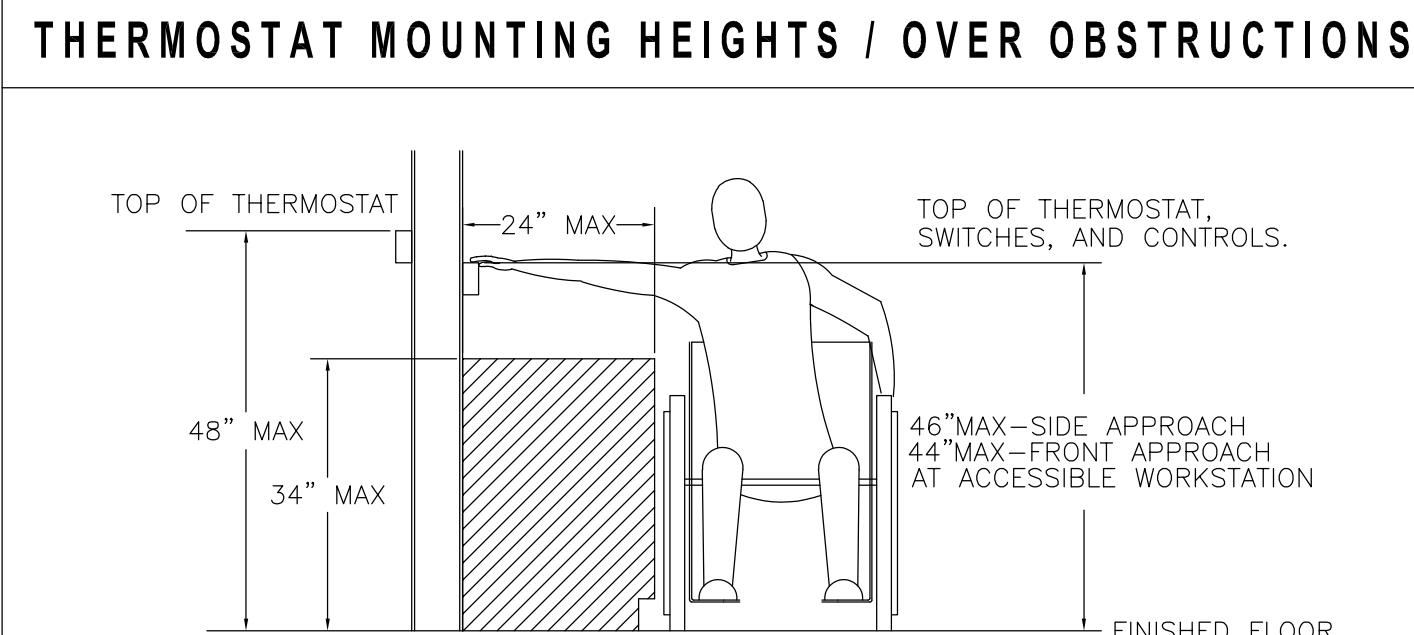
6" = 1'-0"

MECHANICAL ABBREVIATIONS AND SYMBOLS LIST



MECHANICAL ABBREVIATIONS table listing symbols and descriptions for various HVAC and mechanical components like air vents, dampers, diffusers, and controls.

APPLICABLE CODES table listing California administrative and building codes (CAC, CBC, CEC, etc.) and applicable standards.



NOTE: PROVIDE A 30"x27"x19" MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE OSA APPROVED CONSTRUCTION DOCUMENTS.

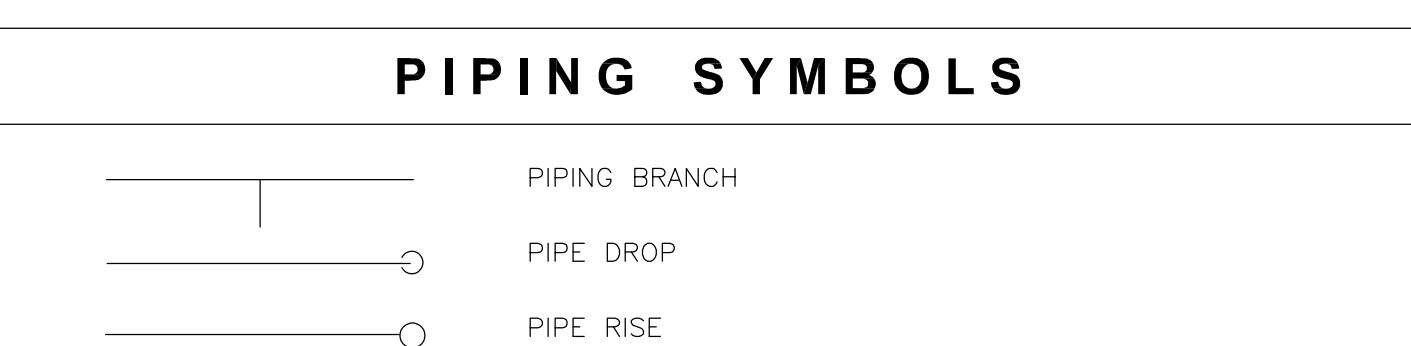
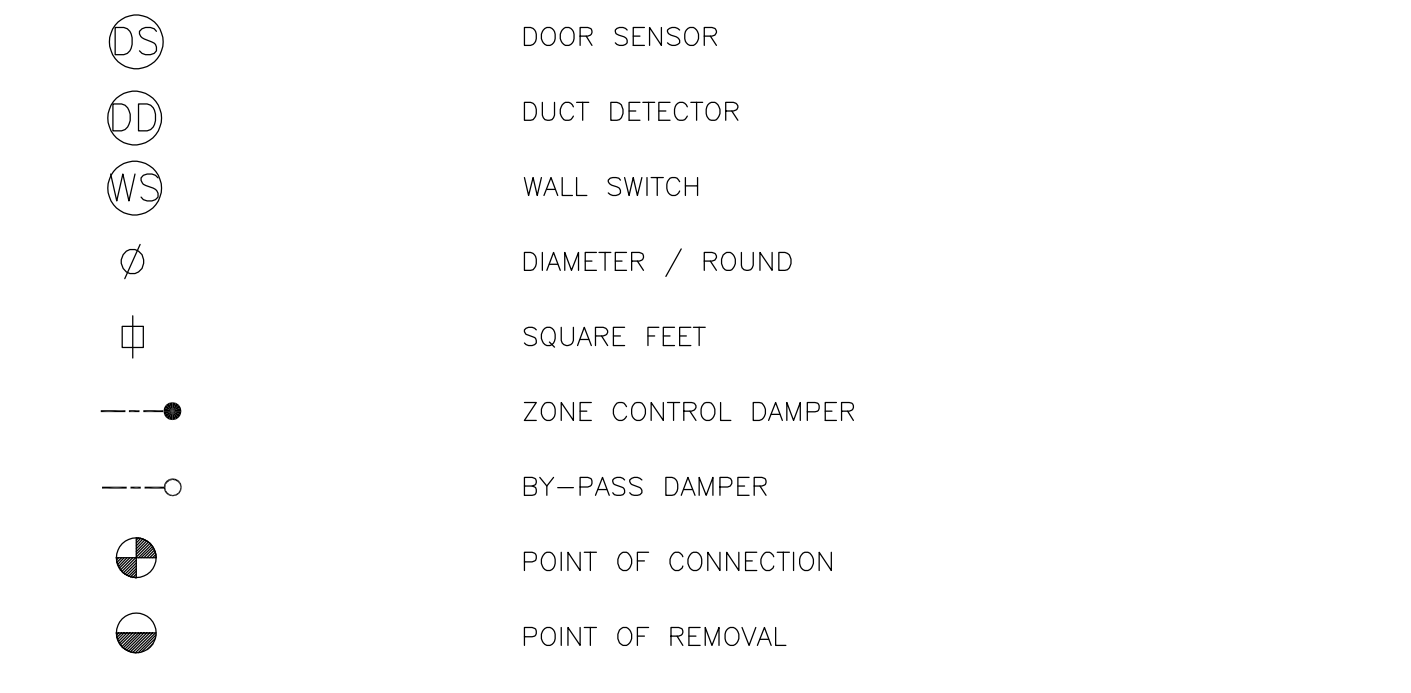
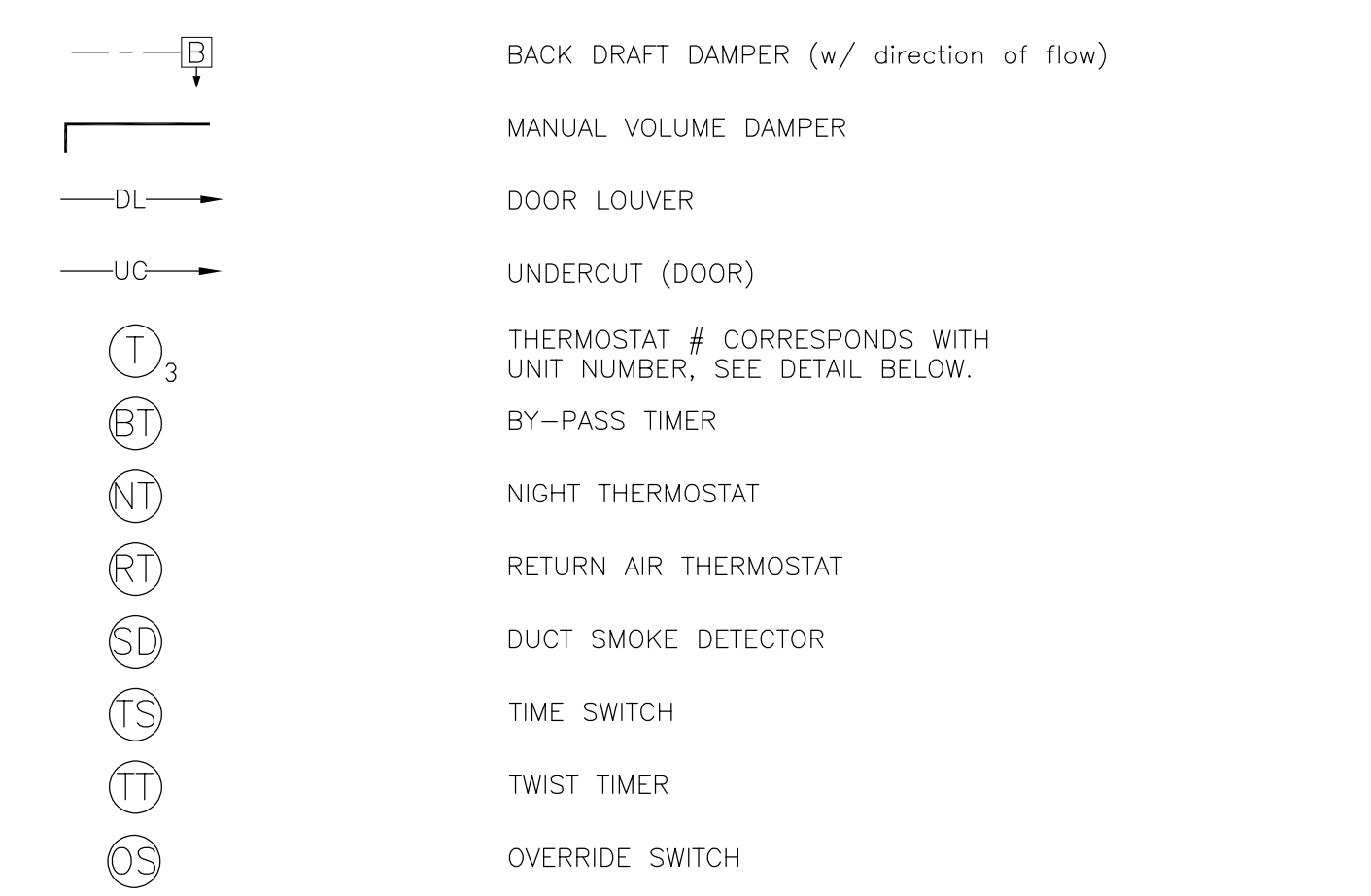
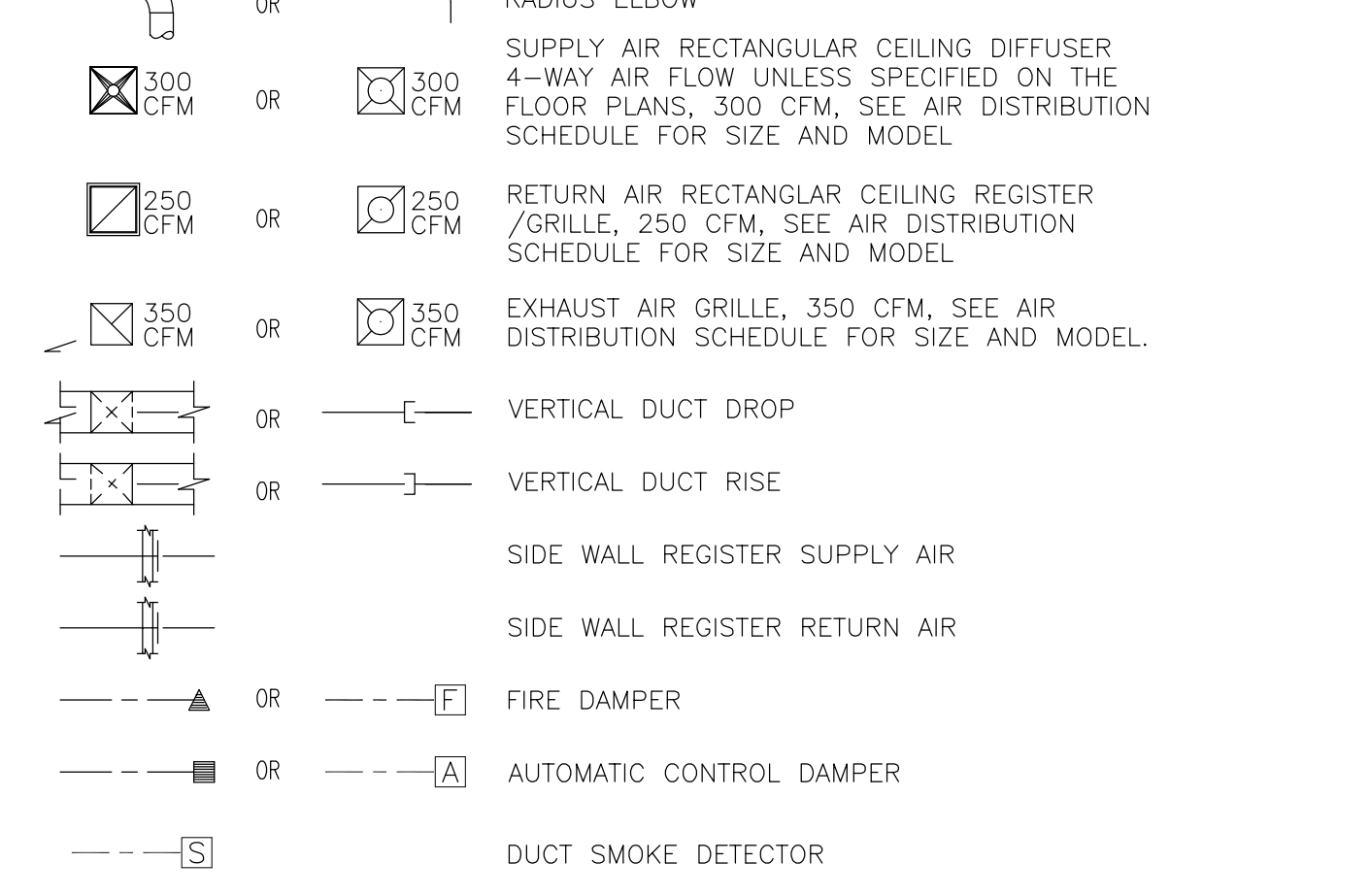
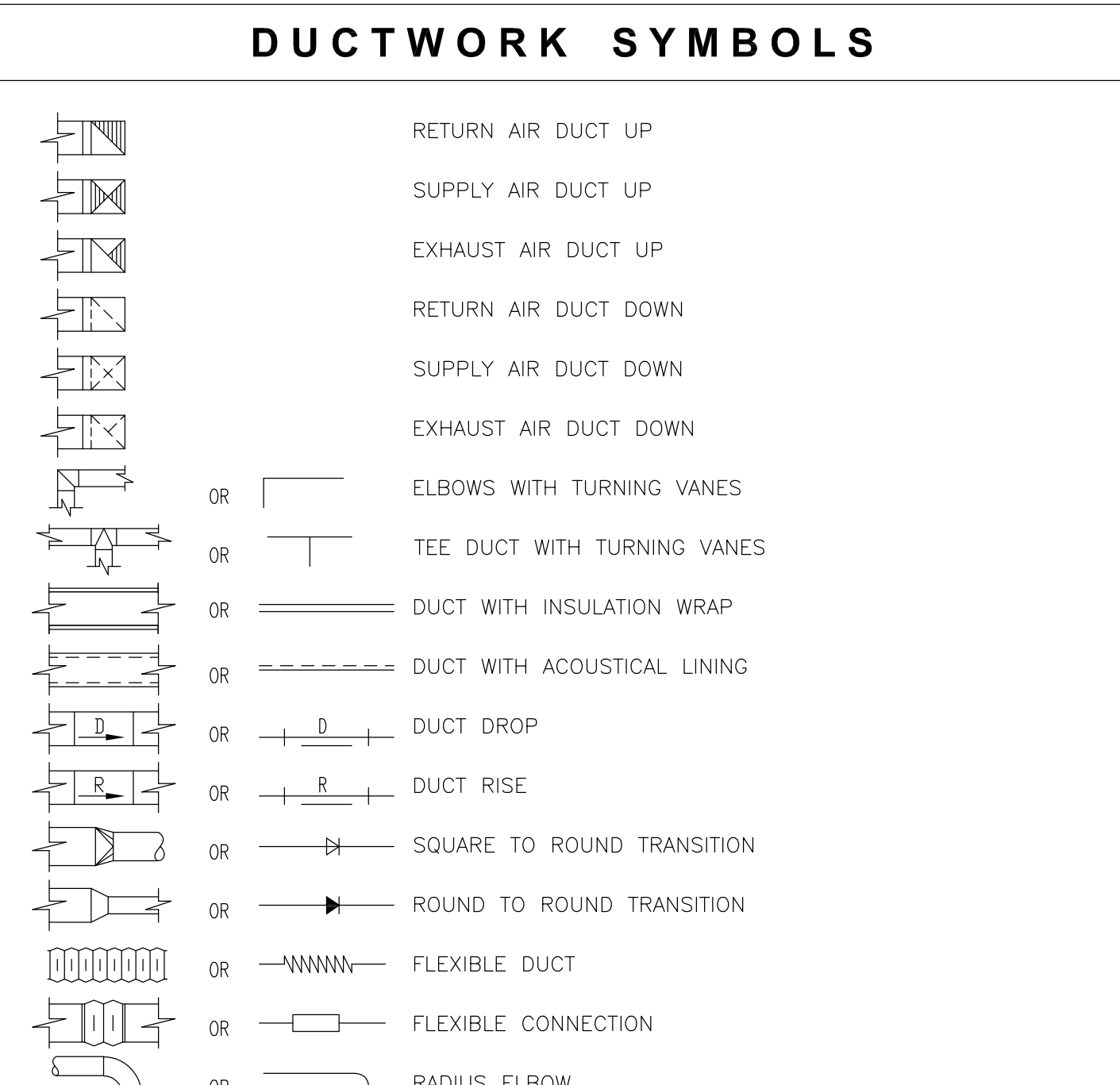
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL.

THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E).

OPTION 1: DETAILED ON THE APPROVED DRAWING WITH PROJECT SPECIFIC NOTES AND DETAILS.

OPTION 2: SHALL COMPLY WITH HCAI (OSHPP) PRE-APPROVAL (OPM#) # _____.



COORDINATION

- 1- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW IN GENERAL WHERE THE DUCTWORK, PIPING AND OTHER WORK SPECIFIED IN THE HVAC SECTIONS OF THE SPECIFICATIONS IS TO BE LOCATED.

- 2- THE CONTRACTOR SHALL EXAMINE AND COORDINATE WITH ALL MECHANICAL, PLUMBING, CIVIL, ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS THAT HAVE BEEN PREPARED FOR THIS PROJECT.

- 3- COORDINATE FINISHING COLOR OF ALL AIR TERMINALS WITH ARCHITECT, FINISHING COLOR SPECIFIED ON EQUIPMENT SCHEDULE IS FOR REFERENCE ONLY.

- 4- CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE AND LOCATION OF DUCTWORK ROOF/WALL OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.

POLLUTANT CONTROL NOTES

FOR THE PERIOD OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, PROVIDE COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.

GENERAL DEMOLITION NOTES: REFER TO ARCHITECTURAL DEMOLITION DRAWINGS IN THIS PHASE AND FOR DEMOLITION AREAS AND EXISTING WALLS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF EXISTING HVAC EQUIPMENT AND SYSTEMS.

SELECTIVE DEMOLITION NOTES

- 1. THIS SECTION INCLUDES LIMITED SCOPE OF SELECTIVE MECHANICAL DEMOLITION WORK AS FOLLOWS: A. NONDESTRUCTIVE REMOVAL OF MATERIALS AND EQUIPMENT FOR REUSE OR SALVAGE AS INDICATED.

- 2. GENERAL CONDITIONS: A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 01 AND 23 SPECIFICATION SECTIONS.

- 3. PROJECT CONDITIONS: A. CONDITIONS AFFECTING SELECTIVE DEMOLITION: THE FOLLOWING PROJECT CONDITIONS APPLY: 1. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN.

- 4. SEQUENCE AND SCHEDULING: A. COORDINATE THE SHUT-OFF AND DISCONNECTION OF UTILITY SERVICES WITH THE OWNER AND THE UTILITY COMPANY.

- 5. EXAMINATION: A. EXAMINE AREAS WHERE SELECTIVE DEMOLITION IS TO OCCUR, DETERMINE EXTENT OF WORK AND AFFECT ON EXISTING CONDITIONS.

- 6. SELECTIVE DEMOLITION: A. GENERAL: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT ABANDONED MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED OR SALVAGED OR SAVED.

- 7. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.

- 8. MECHANICAL MATERIALS AND EQUIPMENT: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT THE FOLLOWING ITEMS: 1. INACTIVE AND OBSOLETE PIPING, FITTINGS AND SPECIALTIES, EQUIPMENT, DUCTWORK, CONTROLS, FIXTURES, AND INSULATION.

- 9. PIPING AND DUCTS EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS.

- 10. PERFORM CUTTING AND PATCHING REQUIRED FOR DEMOLITION.

STRUCTURAL NOTES

- 1- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT/AUTHORITIES HAVING JURISDICTION.

- 2- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAIL IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA/AHJ.

- 3- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/AHJ.

- 4- ALL BRACING OF DUCTWORK AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA MANUAL. SEE SEISMIC RESTRAINT NOTES ON THIS SHEET.

- 5- WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE SMACNA GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER OR AHJ.

- 6- A COPY OF THE MANUAL PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

- 7- DESIGN CRITERIA: GROUND SNOW LOAD = 5 PSF, RISK CATEGORY = III, BASIC DESIGN WIND SPEED V = 115 MPH, EXPOSURE CATEGORY = C, SDS = 0.95, SITE CLASS = D=DEFAULT.

COMBINATION SMOKE/FIRE DAMPER NOTE

- 1- FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED, UL LISTED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND LISTING. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.

GENERAL NOTES

- 1- ALL DUCT DIMENSIONS ON DRAWINGS TO BE INSIDE CLEAR.

- 2- ALL ROOM THERMOSTATS TO BE MOUNTED AT ELEVATION SHOWN ON THIS SHEET. SEE DETAIL BELOW.

- 3- ALL INDIVIDUAL DUCTWORK BRANCH CONNECTING TO SUPPLY, RETURN, EXHAUST, OUTSIDE AIR, ETC., AIR TERMINAL SHALL BE EQUIPPED WITH A MANUAL VOLUME DAMPER.

- 4- ALL SQUARE ELBOWS TO BE PROVIDED WITH TURNING VANES UNLESS OTHERWISE INDICATED.

- 5- DO NOT USE SQUARE ELBOW WITH TURNING VANES AT THE FIRST CHANGE IN DIRECTION OF AIR AFTER THE FAN DISCHARGE. INSTALL ACOUSTICALLY LINED RADIUS ELBOW.

- 6- TO DETERMINE THE EXACT NUMBER AND LOCATION OF FIRE DAMPERS AND COMBINATION SMOKE/FIRE DAMPERS THAT MAY BE REQUIRED, THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS WHICH INDICATE THE LOCATION OF FIRE RATED WALLS, PARTITIONS AND CEILINGS.

- 7- COORDINATE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PLAN.

- 8- FOR BUILDING LOCATIONS, DIMENSIONS AND GRADE ELEVATIONS SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

- 9- PROVIDE WATER-PROOFING FOR ALL EQUIPMENT ANCHORAGE ON ROOF AND DUCT PENETRATIONS THRU ROOF ARCHITECTURAL DETAILS.

- 10- ROUND AND RECTANGULAR DUCTWORK IS INTERCHANGEABLE UPON APPROVAL OF MECHANICAL ENGINEER. CONTRACTOR IS TO VERIFY THE EXACT CEILING SPACE AND INTERCHANGE THE DUCT SIZE TO FIT THE CEILING SPACE WITHOUT ADDITIONAL FEE.

- 11- PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST AIR DUCT THRU BUILDING ENVELOPE UNLESS OTHERWISE NOTED.

- 12- PROVIDE ALL FRESH AIR INTAKES AND EXHAUST OUTLETS WITH HOOD, 1/2" GALVANIZED MESH SCREENS.

- 13- EXHAUST DUCT TERMINATION SHALL BE MINIMUM 10'-0" AWAY OR 3'-0" ABOVE FROM ANY FRESH AIR INTAKE, OPENABLE WINDOWS, DOORS AND 10'-0" MINIMUM ABOVE GRADE.

- 14- CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL DUCTWORK WITH THE WORK OF ALL OTHER TRADES SUCH AS STRUCTURAL BEAMS, PLUMBING PIPING, FIRE SPRINKLER PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC., WHERE REQUIRED OR NOTED ON DRAWINGS, RUN DUCTWORK BETWEEN LIGHT FIXTURES, BEAMS, ETC.

- 15- PROVIDE WATER PROOFING FOR ALL FLASHINGS AND COUNTERFLASHING FOR MECHANICAL WORK.

- 16- THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

- 17- SYMBOLS AND ABBREVIATIONS ON THIS SHEET ARE SHOWN FOR REFERENCE ONLY. NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.

- 18- ALL NOTES ON THIS SHEET REMAIN PART OF THE CONTRACT DOCUMENTS.

- 19- ASBESTOS OR HAZARDOUS WASTE: IT IS UNDERSTOOD AND AGREED THAT THIS CONTRACT DOES NOT CONTEMPLATE THE HANDLING OF ASBESTOS OR ANY HAZARDOUS WASTE MATERIAL. IF ASBESTOS OR ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED, NOTIFY THE OWNER IMMEDIATELY. DO NOT DISTURB, HANDLE OR ATTEMPT TO REMOVE OR REMOVE FOR DISPOSAL PURPOSES.

- 20- FOR ACTUAL DIMENSIONS OF LOUVER SIZES SEE ARCHITECTURAL DRAWINGS, PROVIDE AND ATTACH PLENUMS AND OR DUCTS TO ACCOMMODATE THOSE DIMENSIONS AS NOTED.

- 21- UNIT NUMBERS FOR MECHANICAL EQUIPMENT SHOWN IN SCHEDULES ARE OF THE TYPE OF UNIT ONLY. FOR QUANTITIES & LOCATIONS OF MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.

- 22- ALL ZONE DAMPERS AND COMBINATION SMOKE FIRE DAMPERS TO BE PERMANENTLY LABELED TO INDICATE THE ROOM(S) THEY SERVE.

- 23- ALL WORK SHALL CONFORM TO THE 2019 EDITION OF THE CALIFORNIA MECHANICAL CODE, INCLUDING ALL APPLICABLE STATE TITLE 24 AMENDMENTS, CITY AND COUNTY LAWS AND ORDINANCES.

- 24- THE CONTRACTOR SHALL FURNISH AND INSTALL ACCESS DOORS AND/OR ACCESS PANELS AT LOCATIONS AS NECESSARY TO PROVIDE ACCESSIBILITY FOR SERVICE/ MAINTENANCE OF FIRE/SMOKE DAMPERS, MECHANICAL EQUIPMENT AND DEVICES. ALL ACCESS DOORS AND PANEL LOCATIONS AND SIZES SHALL BE PROVIDED BY CONTRACTOR AND SUBMITTED TO ARCHITECT PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL.

- 25- CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY OPERABILITY, LOCATION AND SIZES OF ALL EXISTING EQUIPMENT/ SERVICES AND INFORM THE ARCHITECT OF ANY DISCREPANCIES.

- 26- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK AND ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATIONS AND MEET THE APPROVAL OF THE LOCAL JURISDICTION, OR DIVISION OF STATE ARCHITECT, WHERE APPLICABLE.

- 27- TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

- 28- ALL SPACE CONDITIONING EQUIPMENT SHALL BE CERTIFIED BY MANUFACTURER TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

- 29- INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION.

- 30- PROVIDE AIR DIFFUSERS AND GRILLES TO MATCH THE CURVATURE WHEN AIR DIFFUSERS AND GRILLES ARE TO BE CURVED OR TO BE INSTALLED ON A CURVED SURFACE.

- 31- ALL PARTS OF AN EXPOSED AIR DISTRIBUTION SYSTEM TO BE PAINTED AS REQUIRED PER ARCHITECT. COORDINATE FINISHING COLOR WITH ARCHITECT.

MANUAL VOLUME DAMPER NOTE

- 1- PROVIDE MANUAL VOLUME DAMPERS WITH REMOTE CONTROL WHERE HARD LID CEILING IS INSTALLED OR ACCESS TO TYPICAL MANUAL VOLUME DAMPER IS NOT POSSIBLE. PROVIDE PRODUCTS OF METROPOLITAN AIR TECHNOLOGY, ROTO-TWIST MODEL NUMBER RT-250 SERIES III FOR ROUND DUCT AND MODEL RT-100 SP/CC FOR RECTANGULAR DUCT APPLICATION OR APPROVED EQUAL PRODUCTS. PROVIDE GUIDE CABLE OF REQUIRED LENGTH FOR INSTALLATION OF THE CEILING CUP AND COVER PLATE AT LOCATIONS APPROVED BY ARCHITECT. CONTRACTOR SHALL SUBMIT ON PROPOSED LOCATIONS OF CEILING CUPS FOR REVIEW AND APPROVAL BY THE ARCHITECT.

THERMOSTAT NOTES

- 1- TEMPERATURE THERMOSTAT: TEMPERATURE RANGE 55°F TO 85°F SEQUENCE HEATING AND COOLING, ADJUSTABLE TO 10°F BETWEEN HEATING AND COOLING, CAPABILITY TO TERMINATE ALL HEATING AT NO MORE THAN 70°F AND TERMINATE ALL COOLING AT NOT LESS THAN 78°F OR PROVIDE 1-STAY TO MEET THE OWNER'S STANDARDS, WHERE APPLICABLE.

- 2- THE LOCATION OF THERMOSTATS TO BE FINALIZED DURING CONSTRUCTION. IF THE LOCATION OF THE THERMOSTATS SHOWN ON MECHANICAL DRAWINGS ARE IN CONFLICT WITH BUILDING ELEMENTS OR DESIGN, CONTRACTOR SHALL RELOCATE THE THERMOSTAT AND RUN REQUIRED WIRING FOR A SUCCESSFUL INSTALLATION TO ANOTHER LOCATION APPROVED BY MECHANICAL ENGINEER AND ARCHITECT AT NO ADDITIONAL COST TO THE OWNER UP TO MAXIMUM 20' AWAY FROM ORIGINAL LOCATION SHOWN ON MECHANICAL DRAWINGS.

- 3- DO NOT INSTALL THERMOSTATS WHERE THE OPERATION OF THE DEVICE MAY BE EFFECTED BY: a. DIRECT SUNSHINE EFFECT. b. MINIMIZED AIR CIRCULATION (BEHIND THE DOORS OR CABINETS OR SIMILAR LOCATIONS). c. OUTDOOR TEMPERATURE (ON EXTERIOR WALLS, OR SIMILAR LOCATIONS). d. HEAT GENERATING EQUIPMENT (PROVIDE PROPER DISTANCE FROM HEAT GENERATING EQUIPMENT). e. LOCATIONS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE BETWEEN DRAWINGS AND WORKS OF OTHER TRADES, AND ENSURE PROPER LOCATION SELECTION FOR INSTALLATION OF THE THERMOSTAT FOR SATISFACTORY OPERATION OF THE DEVICE. f. THERMOSTATS SHALL BE INSTALLED AT HEIGHTS SHOWN ON CONTRACT DOCUMENTS AND AS REQUIRED FOR ACCESSIBILITY REGULATIONS.

- 4- PROVIDE INSULATED THERMOSTAT BOX IF THERMOSTAT TO BE INSTALLED ON EXTERIOR WALL.



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BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLVD. VICTORVILLE, CA 92394

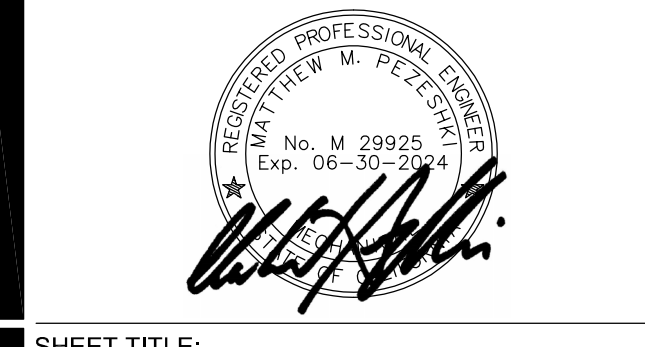
ISSUED FOR:

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REVISIONS:

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REGISTRATION/SIGNATURE:

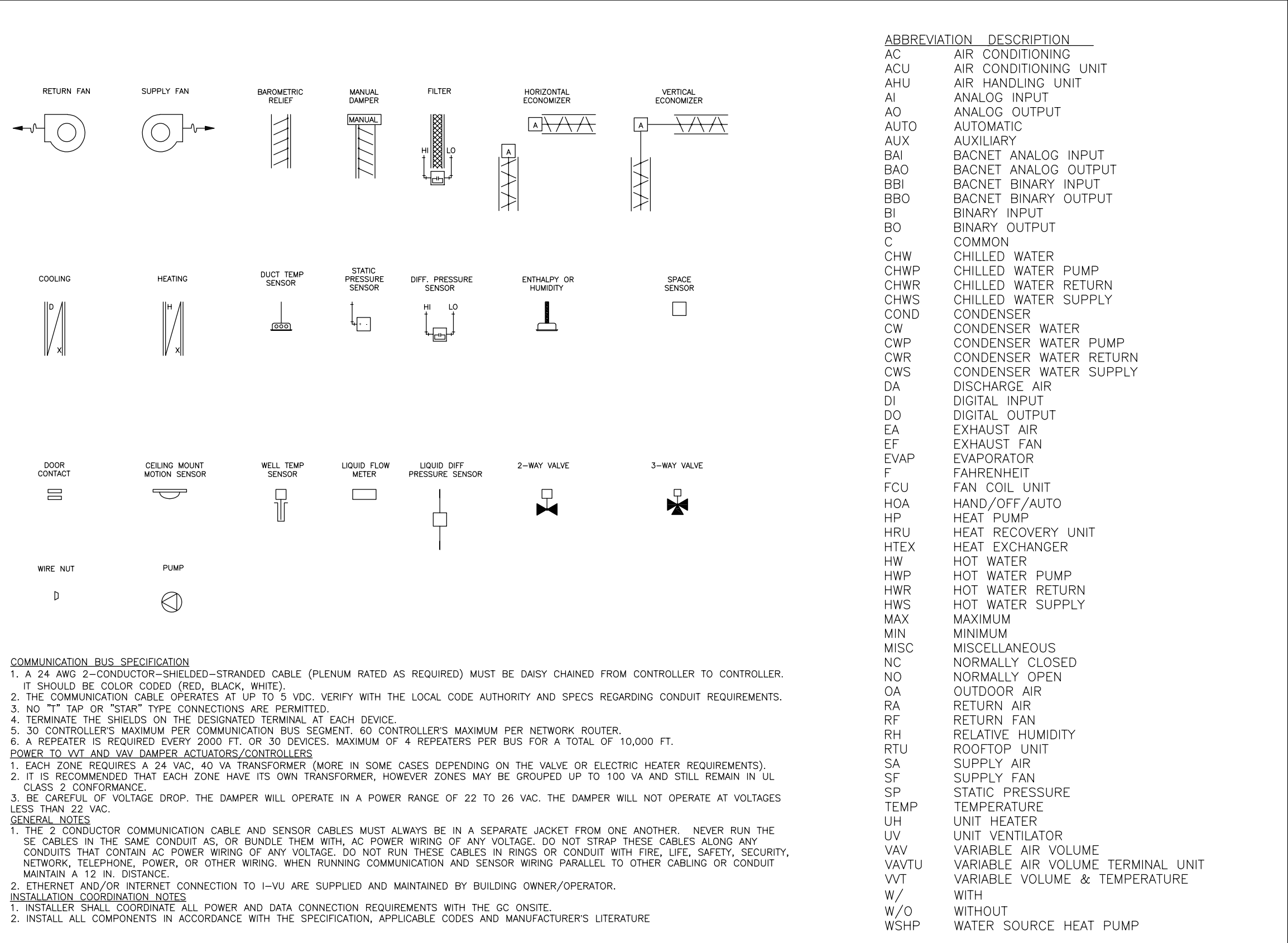


SHEET TITLE: MECHANICAL ABBREVIATIONS AND SYMBOLS LIST

SHEET NUMBER: M0-1.0

WD PROJ. # 22825 DRAWN BY: CHECKED DATE 07/18/23

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PROJECT NAME: VESD BRENTWOOD ELEMENTARY SCHOOL

1.0 SEQUENCES OF OPERATION FOR VESD BRENTWOOD ELEMENTARY SCHOOL

1.1.1 VVT GRADE MOUNTED UNIT DETAIL

INDOOR FAN

DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT 1 OF 2 SPEEDS DEPENDING ON THE MODE OF OPERATION AND LOAD CONDITIONS. DURING VENT ONLY MODE AND LOW LOAD CONDITIONS, THE FAN OPERATES AT LOW SPEED. IF LOAD CONDITIONS INCREASE OR IF THERE IS A CALL FOR HEATING, THE FAN OPERATES AT HIGH SPEED.

HEATING MODE

WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

COOLING MODE

WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

ECONOMIZER

ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED, THE ECONOMIZER SHALL OPEN TO ADJUSTABLE MINIMUM POSITION. WHEN OUTSIDE AIR TEMPERATURE IS BELOW 75 AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

CO2 CONTROL

UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, ECONOMIZER SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION. AS THE CO2 LEVEL IN THE SPACE INCREASES ABOVE THE SETPOINT, THE MINIMUM POSITIONS OF THE DAMPERS WILL BE INCREASED PROPORTIONALLY, UNTIL THE MAXIMUM VENTILATION SETTING IS REACHED. AS THE SPACE CO2 LEVEL DECREASES BECAUSE OF THE INCREASE IN FRESH AIR, THE OUTDOOR-DAMPER WILL FOLLOW THE HIGHER DEMAND CONDITION FROM THE DCV MODE OR FROM THE FREE-COOLING MODE.

1.1.2 BYPASS DAMPER DETAIL

WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

COOLING MODE

WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

ECONOMIZER

ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED, THE ECONOMIZER SHALL OPEN TO ADJUSTABLE MINIMUM POSITION. WHEN OUTSIDE AIR TEMPERATURE IS BELOW 75 AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

CO2 CONTROL

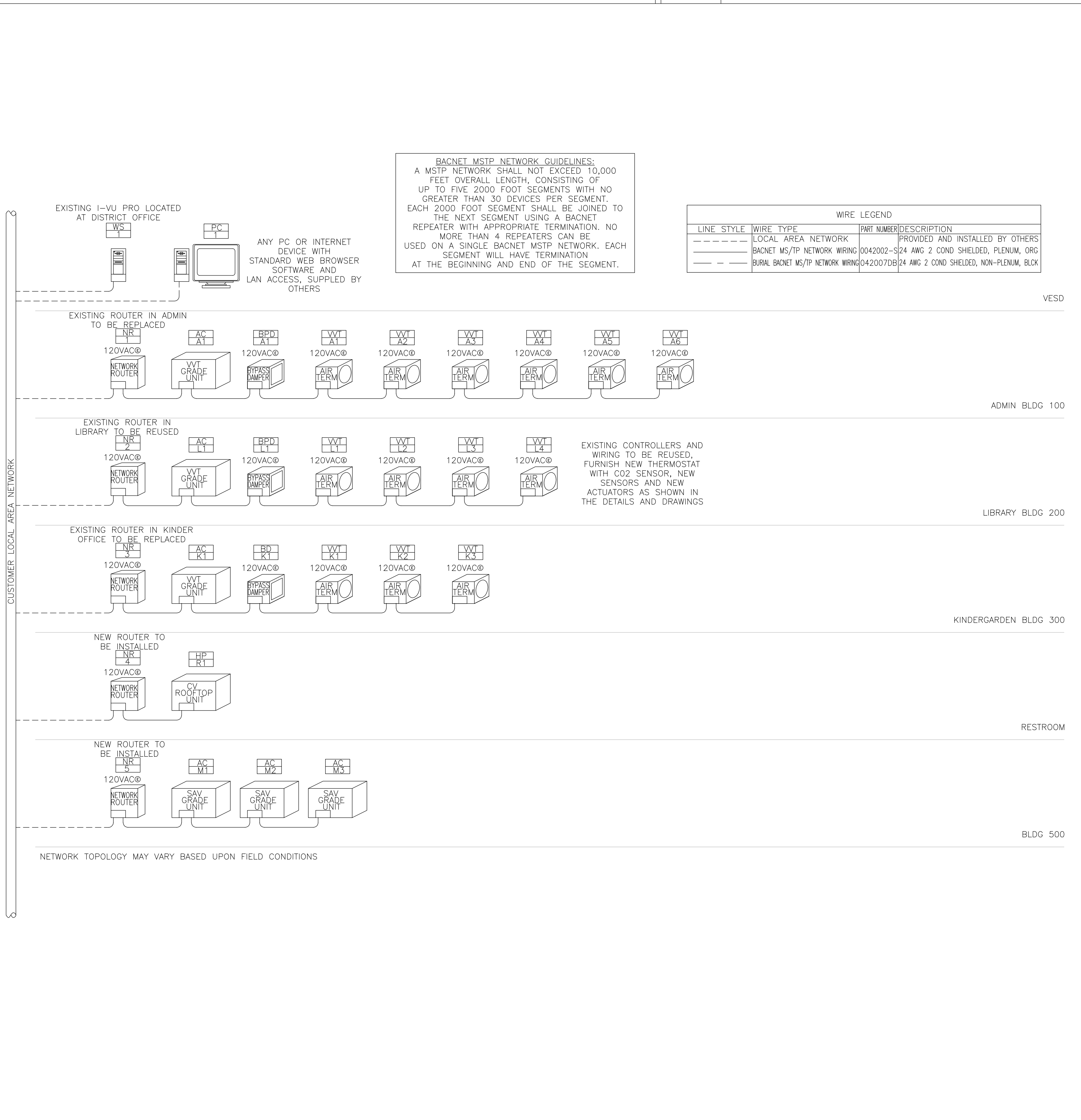
UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, ECONOMIZER SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION. AS THE CO2 LEVEL IN THE SPACE INCREASES ABOVE THE SETPOINT, THE MINIMUM POSITIONS OF THE DAMPERS WILL BE INCREASED PROPORTIONALLY, UNTIL THE MAXIMUM VENTILATION SETTING IS REACHED. AS THE SPACE CO2 LEVEL DECREASES BECAUSE OF THE INCREASE IN FRESH AIR, THE OUTDOOR-DAMPER WILL FOLLOW THE HIGHER DEMAND CONDITION FROM THE DCV MODE OR FROM THE FREE-COOLING MODE.

1.1.4 GAS/ELECTRIC GRADE MOUNTED UNIT DETAIL

INDOOR FAN

DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT 1 OF 2 SPEEDS DEPENDING ON THE MODE OF OPERATION AND LOAD CONDITIONS. DURING VENT ONLY MODE AND LOW LOAD CONDITIONS, THE FAN OPERATES AT LOW SPEED. IF LOAD CONDITIONS INCREASE OR IF THERE IS A CALL FOR HEATING, THE FAN OPERATES AT HIGH SPEED.

GENERAL INFORMATION/SYMBOLS LEGEND/COMMON ABBREVIATIONS 1
NOT TO SCALE



BACS RISER DIAGRAM (1 OF 3) 8
NOT TO SCALE

HEATING MODE

WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

COOLING MODE

WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

ECONOMIZER

ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED, THE ECONOMIZER SHALL OPEN TO ADJUSTABLE MINIMUM POSITION. WHEN OUTSIDE AIR TEMPERATURE IS BELOW 75 AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

CO2 CONTROL

UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, ECONOMIZER SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION. AS THE CO2 LEVEL IN THE SPACE INCREASES ABOVE THE SETPOINT, THE MINIMUM POSITIONS OF THE DAMPERS WILL BE INCREASED PROPORTIONALLY, UNTIL THE MAXIMUM VENTILATION SETTING IS REACHED. AS THE SPACE CO2 LEVEL DECREASES BECAUSE OF THE INCREASE IN FRESH AIR, THE OUTDOOR-DAMPER WILL FOLLOW THE HIGHER DEMAND CONDITION FROM THE DCV MODE OR FROM THE FREE-COOLING MODE.

1.1.5 HEAT PUMP ROOFTOP UNIT DETAIL

INDOOR FAN

DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT ONE SPEED ONLY AND PROVIDES ON/OFF OPERATION.

HEATING MODE

WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

COOLING MODE

WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

ECONOMIZER

ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED, THE ECONOMIZER SHALL OPEN TO ADJUSTABLE MINIMUM POSITION. WHEN OUTSIDE AIR TEMPERATURE IS BELOW 75 AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

CO2 CONTROL

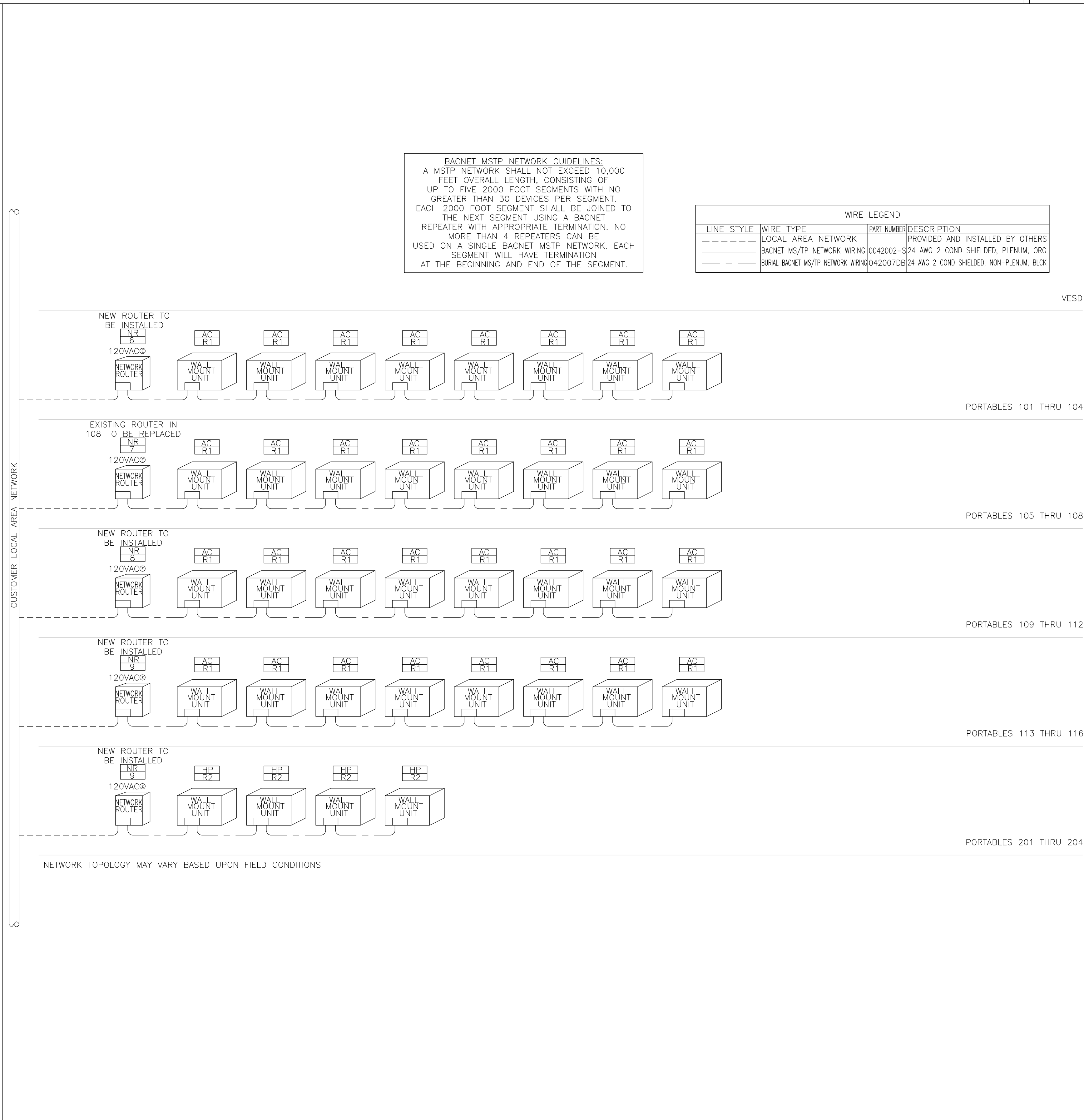
UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, ECONOMIZER SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION. AS THE CO2 LEVEL IN THE SPACE INCREASES ABOVE THE SETPOINT, THE MINIMUM POSITIONS OF THE DAMPERS WILL BE INCREASED PROPORTIONALLY, UNTIL THE MAXIMUM VENTILATION SETTING IS REACHED. AS THE SPACE CO2 LEVEL DECREASES BECAUSE OF THE INCREASE IN FRESH AIR, THE OUTDOOR-DAMPER WILL FOLLOW THE HIGHER DEMAND CONDITION FROM THE DCV MODE OR FROM THE FREE-COOLING MODE.

1.1.4 GAS/ELECTRIC GRADE MOUNTED UNIT DETAIL

INDOOR FAN

DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT 1 OF 2 SPEEDS DEPENDING ON THE MODE OF OPERATION AND LOAD CONDITIONS. DURING VENT ONLY MODE AND LOW LOAD CONDITIONS, THE FAN OPERATES AT LOW SPEED. IF LOAD CONDITIONS INCREASE OR IF THERE IS A CALL FOR HEATING, THE FAN OPERATES AT HIGH SPEED.

SEQUENCES OF OPERATION 3
NOT TO SCALE



BACS RISER DIAGRAM (2 OF 3) 9
NOT TO SCALE

IDENTIFICATION STAMP
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 DATE: 09/20/2023

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 13962 HOOK BLVD.
 VICTORVILLE, CA 92394

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SHEET TITLE:
**CONTROL
DETAILS**

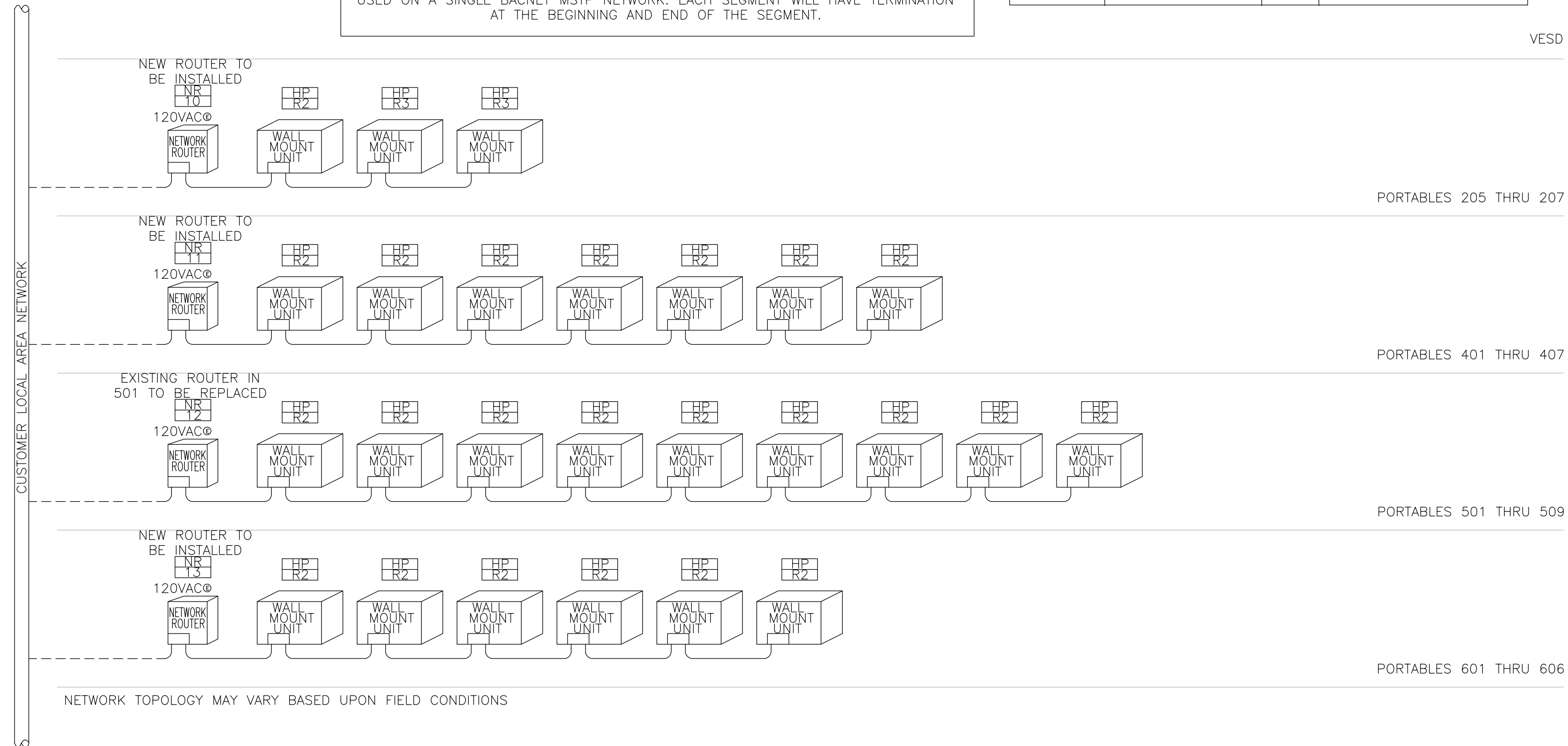
SHEET NUMBER:
M0-3.1

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BACNET_MSTP_NETWORK_GUIDELINES:
 A MSTP NETWORK SHALL NOT EXCEED 10,000 FEET OVERALL LENGTH, CONSISTING OF UP TO FIVE 2000 FOOT SEGMENTS WITH NO GREATER THAN 30 DEVICES PER SEGMENT. EACH 2000 FOOT SEGMENT SHALL BE JOINED TO THE NEXT SEGMENT USING A BACNET REPEATER WITH APPROPRIATE TERMINATION; NO MORE THAN 4 REPEATERS CAN BE USED ON A SINGLE BACNET MSTP NETWORK. EACH SEGMENT WILL HAVE TERMINATION AT THE BEGINNING AND END OF THE SEGMENT.

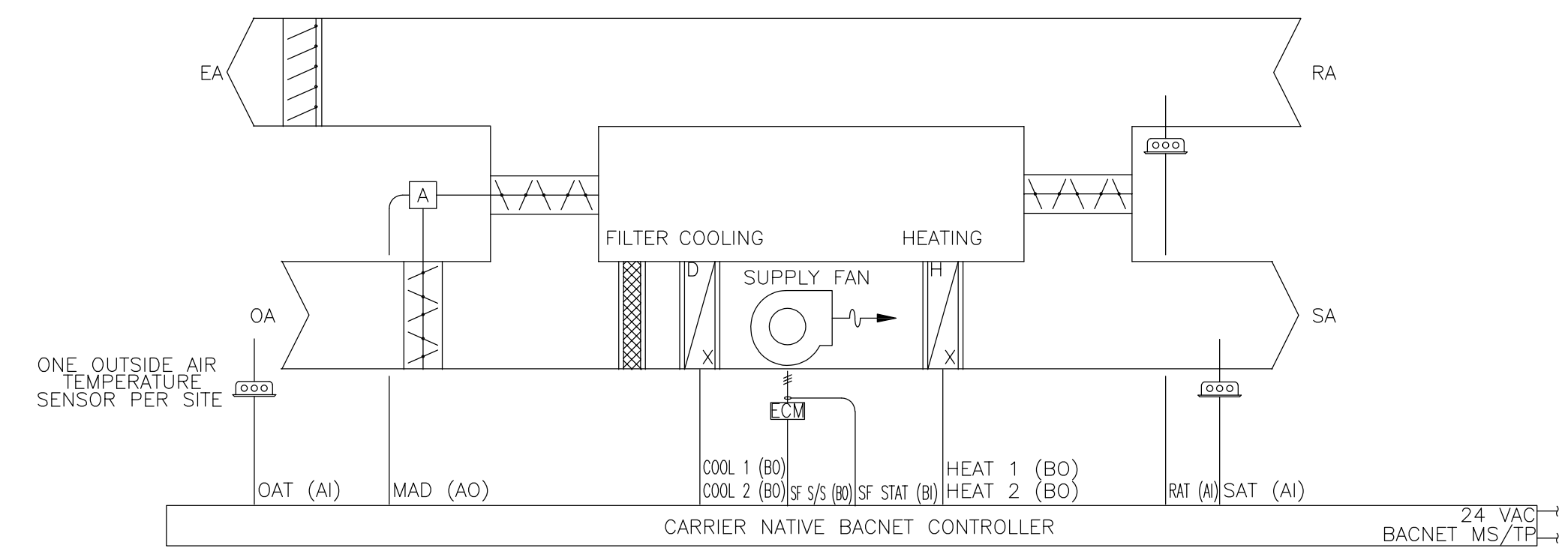
WIRE LEGEND	
LINE STYLE	WIRE TYPE / PROVIDER
---	LOCAL AREA NETWORK
---	BACNET MS/TP NETWORK WIRING (42002-5) [24 AWG 2 COND. SHIELDED, PLENUM, ORG]
---	CARRIER COMORT NETWORK WIRING (003336-5) [30 AWG 3 COND. SHIELDED, PLENUM, WH / GRN STRIP]



BACS RISER DIAGRAM (3 OF 3)

2

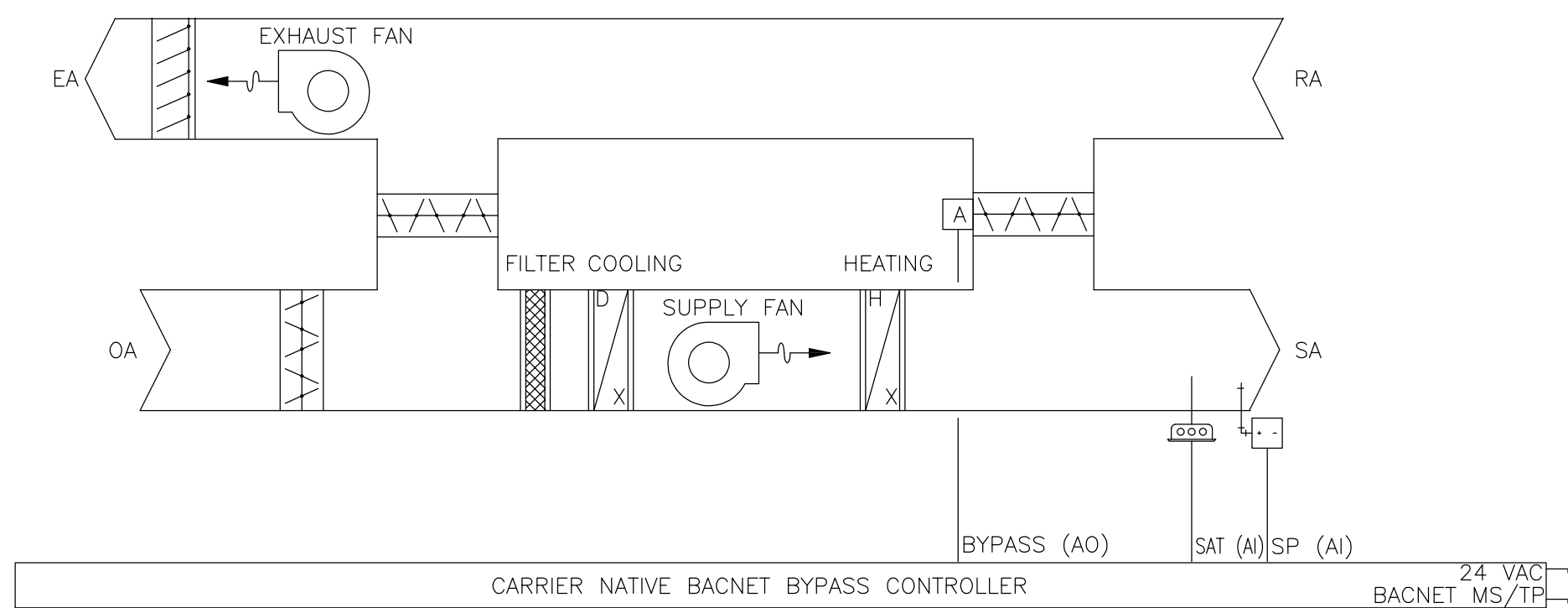
NOT TO SCALE



VVT GRADE MOUNTED UNIT DETAIL (AC-A1, AC-L1, AND AC-K1)

3

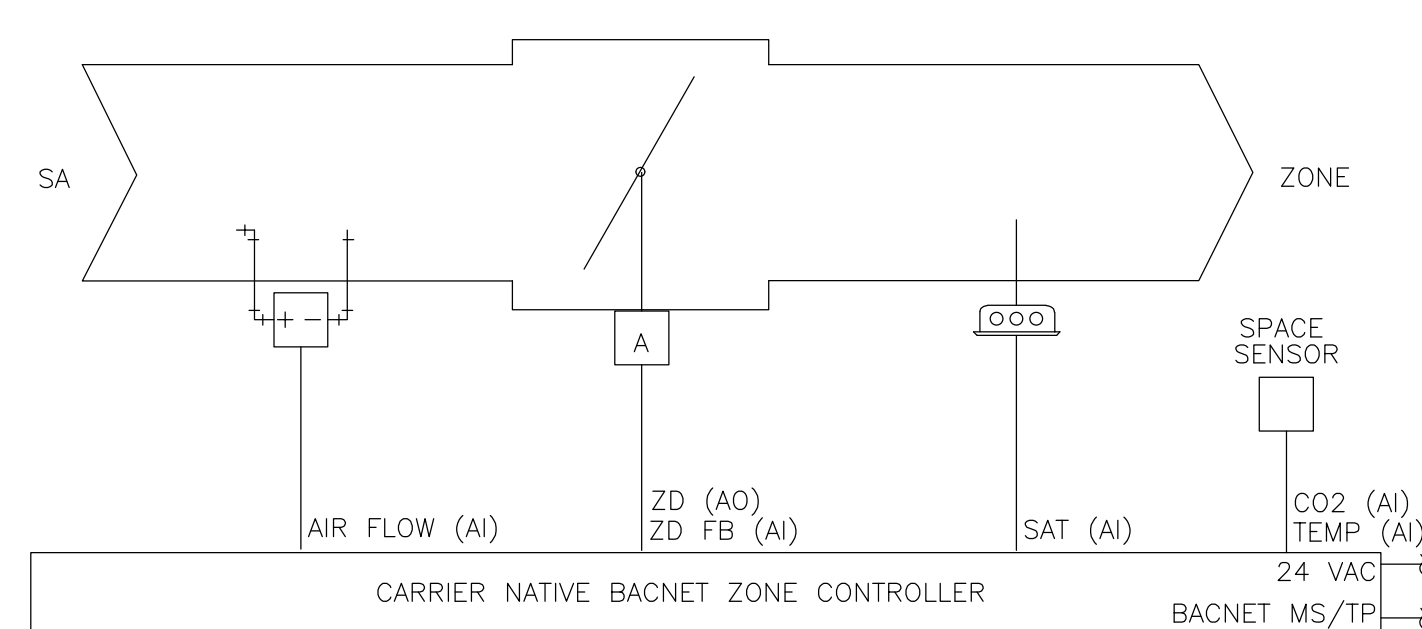
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BYPASS DAMPER DETAIL (BD-A1, BD-L1, AND BD-K1)

4

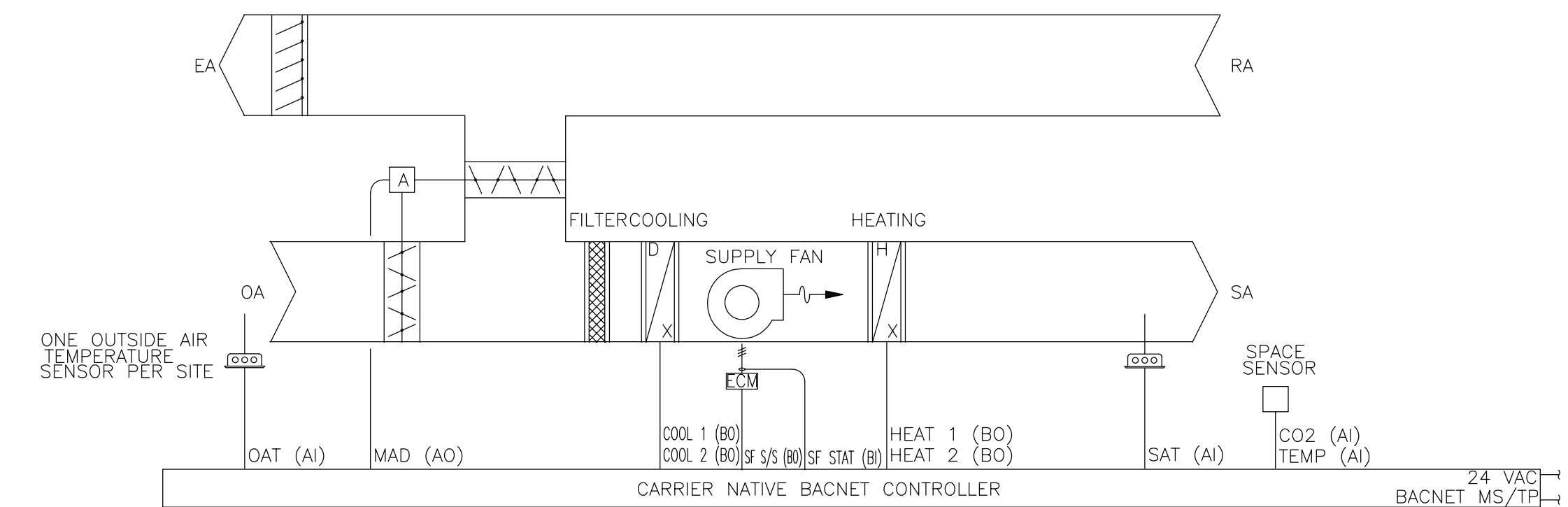
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ZONE DAMPER DETAIL (VVT-A1 THRU A6, VVT-L1 THRU L4, AND VVT-K1 THRU K3)

5

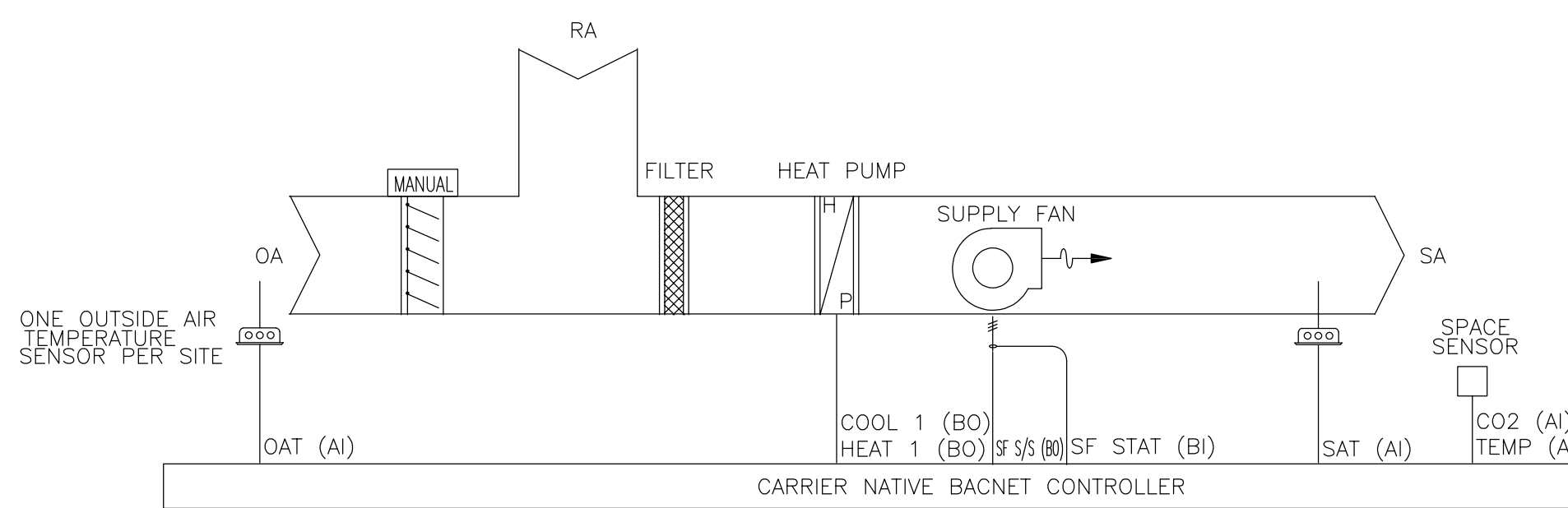
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GAS/ELECTRIC GRADE MOUNTED UNIT DETAIL (AC-M1 THRU AC-M3)

6

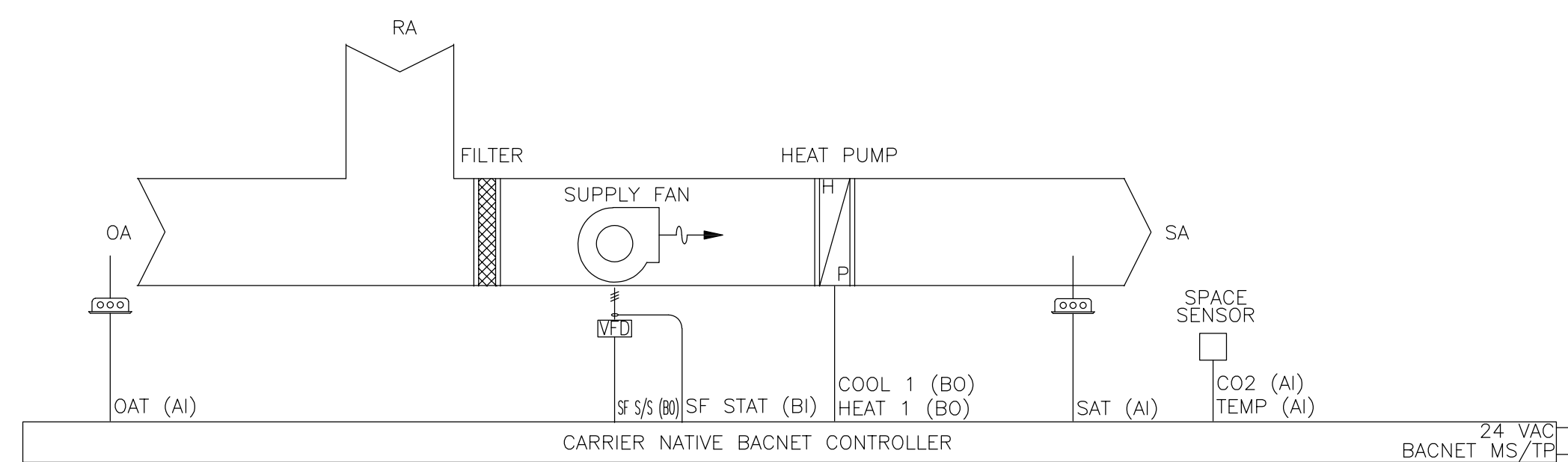
NOT TO SCALE



HEAT PUMP ROOFTOP UNIT DETAIL (HP-R1)

7

NOT TO SCALE



WALL MOUNT UNIT DETAIL (AC-R1, HP-R2 AND HP-R3)

8

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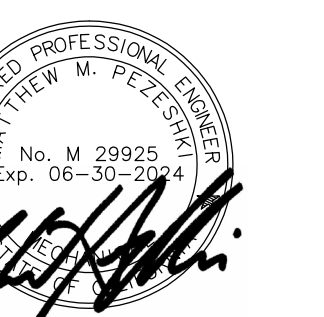
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 13962 HOOK BLVD.
 VICTORVILLE, CA 92394

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CONTROL DETAILS

SHEET NUMBER:

M0-3.2

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9

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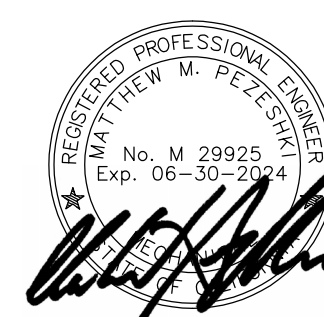


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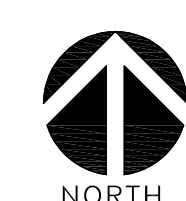
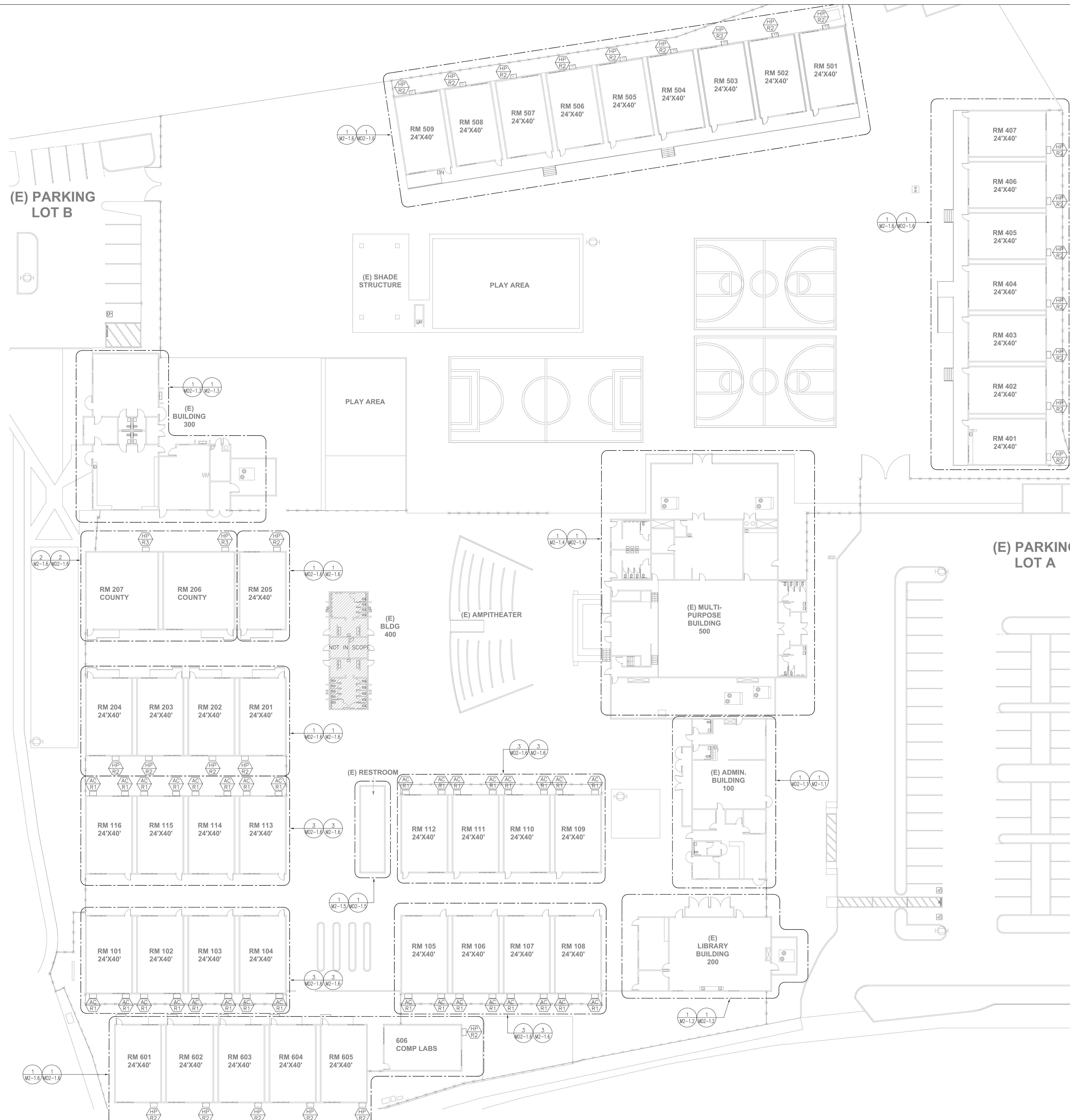
**MECHANICAL
SITE PLAN**

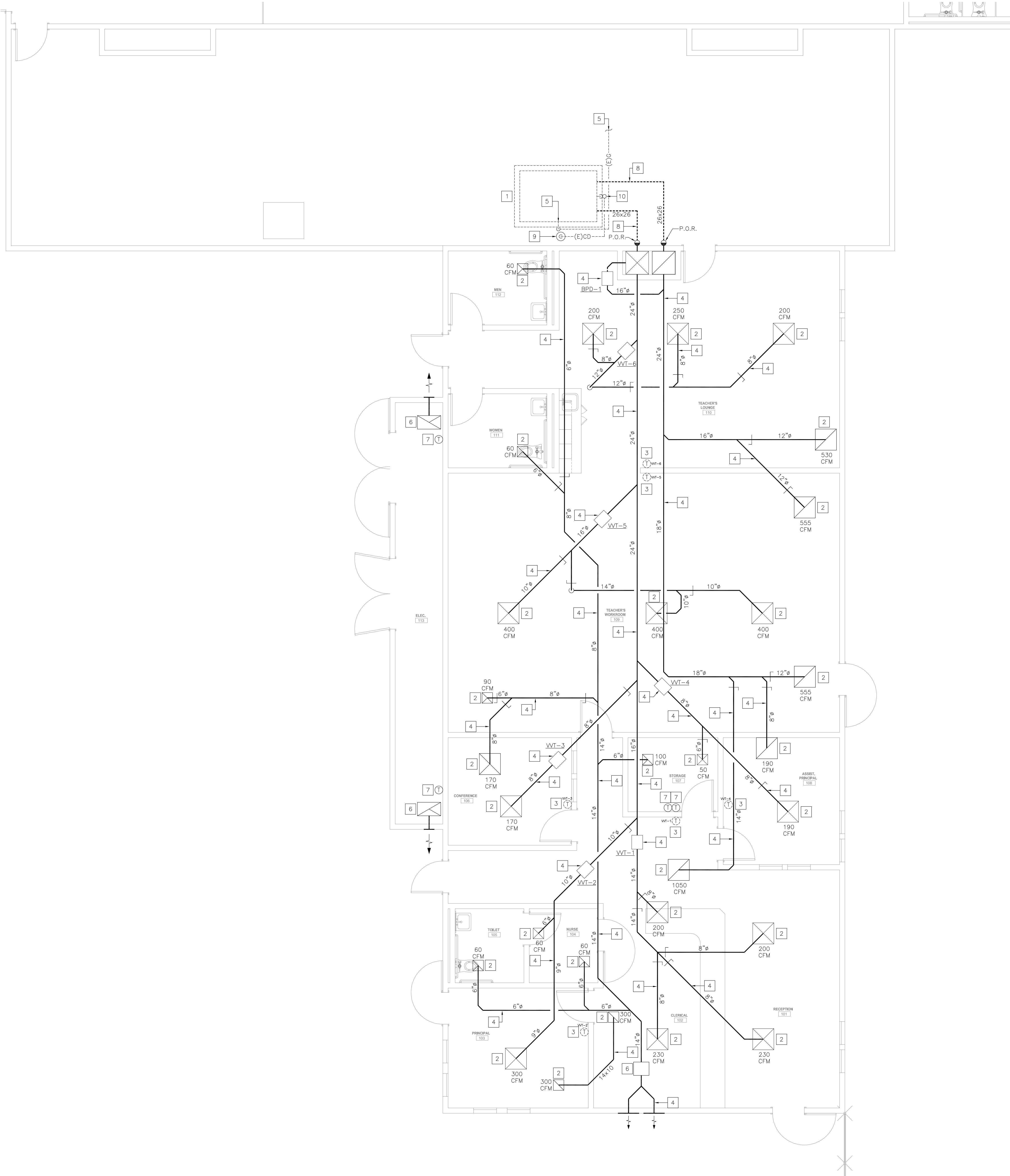
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M1-1.1

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DEMOLITION NOTES

- 1.- REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT INCLUDING POWER EXHAUST, DISCONNECT ALL UTILITIES AND SIDE DISCHARGE DUCTWORK. MODIFY SIDE DISCHARGE DUCTWORK FOR RECONNECTION AT P.O.R. AS INDICATED. REMOVE EXISTING CONCRETE PAD. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 3.- REMOVE EXISTING THERMOSTAT, FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 5.- P.O.R.- REMOVE EXISTING GAS PIPING TO A/C UNIT. SEE PLAN 2/MD2-1.4 FOR ADDITIONAL INFORMATION.
- 6.- EXISTING EXHAUST FAN TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 7.- EXISTING THERMOSTAT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 8.- REMOVE EXISTING EXTERIOR GRADE MOUNTED DUCTWORK AS INDICATED. MODIFY EXISTING DUCTWORK AT P.O.R. FOR RECONNECTION TO NEW DUCTWORK. SEE RENOVATION FLOOR PLAN FOR ADDITIONAL INFORMATION.
- 9.- EXISTING FLOOR RECEPTOR TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 10.- P.O.R.- REMOVE EXISTING GRADE MOUNTED CONDENSATE DRAIN PIPING IN ITS ENTIRETY.

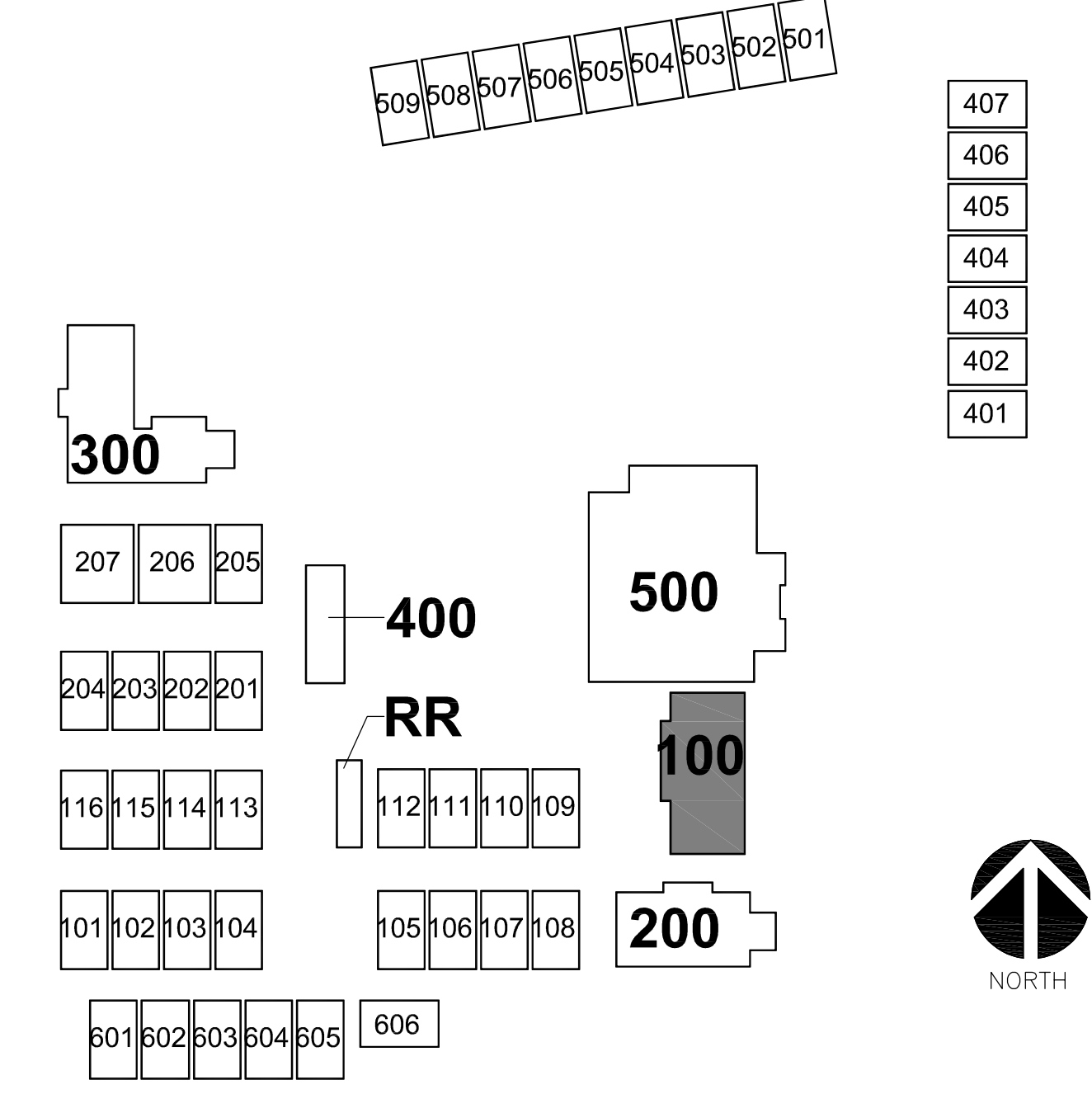
AIR BALANCE NOTE

1. EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

GENERAL DEMOLITION NOTES

- G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.
- G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.

KEY PLAN



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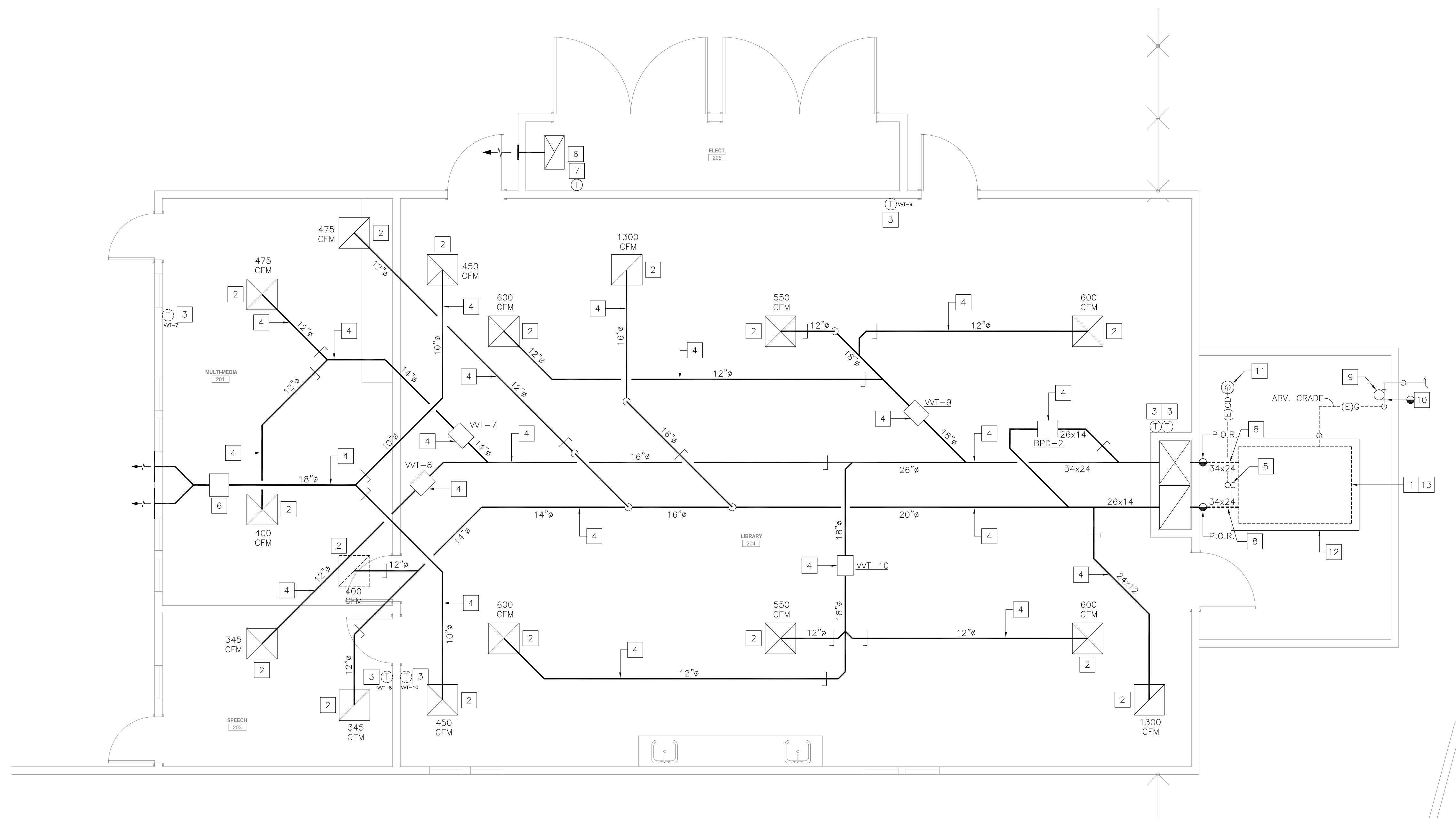
SHEET TITLE:
MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 100
SHEET NUMBER:
MD2-1.1

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22825			07/18/23

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MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 100 (ADMINISTRATION)

1
1/4" = 1'-0"



DEMOLITION NOTES

- 1.- REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT INCLUDING POWER EXHAUST. DISCONNECT ALL UTILITIES AND SIDE DISCHARGE DUCTWORK. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. PREPARE AREA OF REMOVAL TO RECEIVE NEW GRADE MOUNTED AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS AND DEMOLITION NOTES 12 AND 13 ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 3.- REMOVE EXISTING THERMOSTAT. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 5.- P.O.R.- REMOVE EXISTING GRADE MOUNTED CONDENSATE DRAIN PIPING IN ITS ENTIRETY.
- 6.- EXISTING EXHAUST FAN TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 7.- EXISTING THERMOSTAT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 8.- REMOVE EXISTING EXTERIOR GRADE MOUNTED DUCTWORK AS INDICATED. MODIFY EXISTING DUCTWORK AT P.O.R. FOR RECONNECTION OF NEW DUCTWORK. SEE RENOVATION DRAWING FOR ADDITIONAL INFORMATION.
- 9.- EXISTING GAS PRESSURE REGULATOR AND ASSOCIATED PIPING LOCATED ABV. GRADE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 10.- P.O.R.- REMOVE EXISTING GAS PIPING DOWNSTREAM OF EXISTING GAS PRESSURE REGULATOR ABV. GRADE TO A/C UNIT AND MODIFY FOR RECONNECTION. SEE RENOVATION DRAWING FOR ADDITIONAL INFORMATION.
- 11.- EXISTING FLOOR RECEPTOR TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 12.- EXISTING CONCRETE PAD TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. EXTEND CONCRETE PAD AS REQUIRED TO PROVIDE A 6" MIN. EDGE CLEARANCE BETWEEN EDGE OF THE PAD AND NEW A/C UNIT FOR UNIT ANCHORAGE REQUIREMENTS.
- 13.- PRIOR TO COMMENCEMENT OF DEMOLITION WORK REMOVE ALL EXISTING EMS UNIT CONTROLLERS FROM EXISTING A/C UNIT. PROTECT DURING CONSTRUCTION FOR RE-INSTALLATION ON NEW A/C UNIT. COORDINATE WITH EMS CONTRACTOR FOR REMOVAL AND RE-INSTALLATION WORK. SEE RENOVATION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.

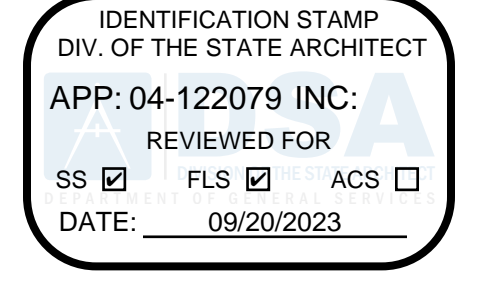
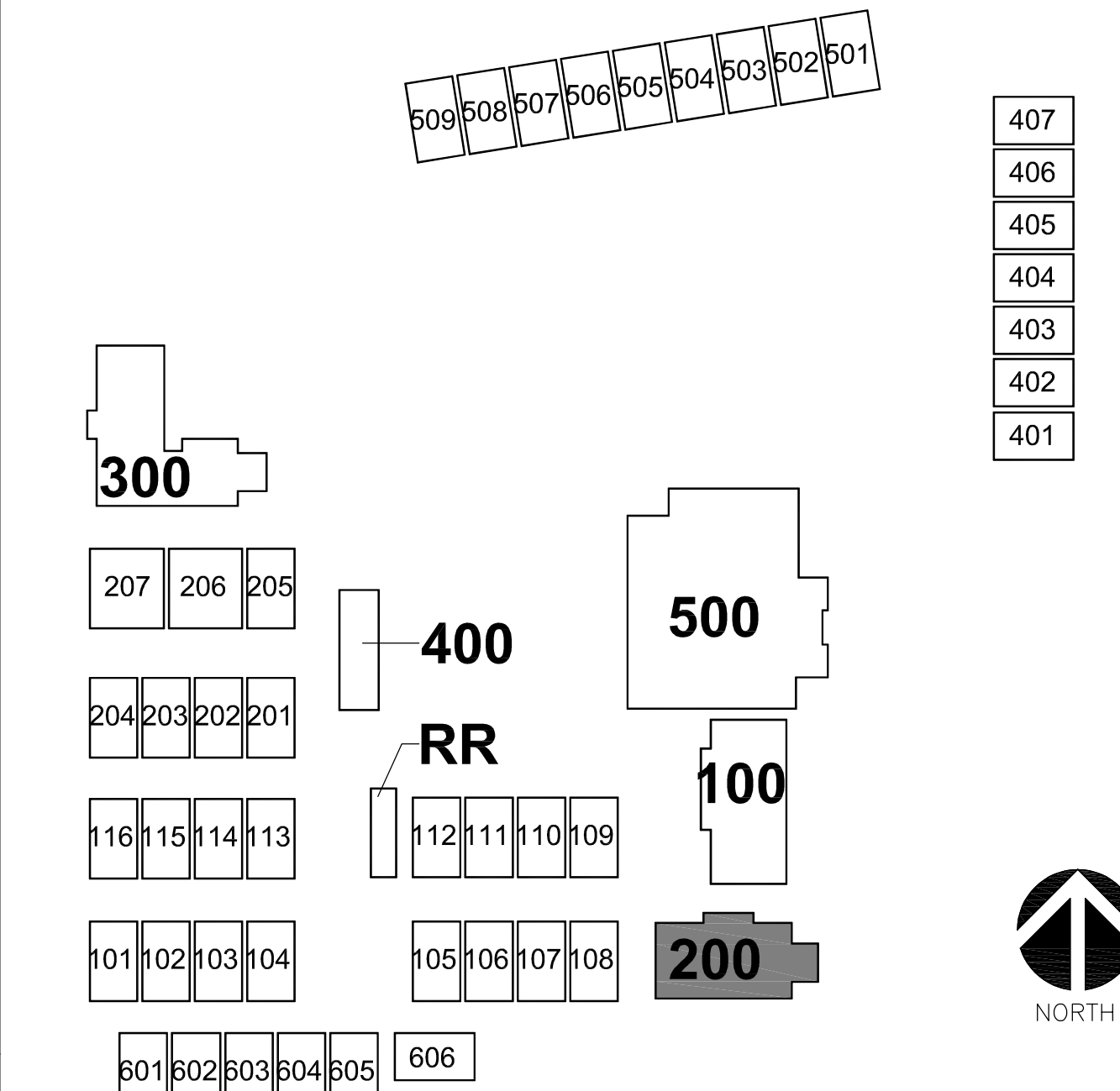
AIR BALANCE NOTE

1. EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

GENERAL DEMOLITION NOTES

- G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.
- G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.

KEY PLAN



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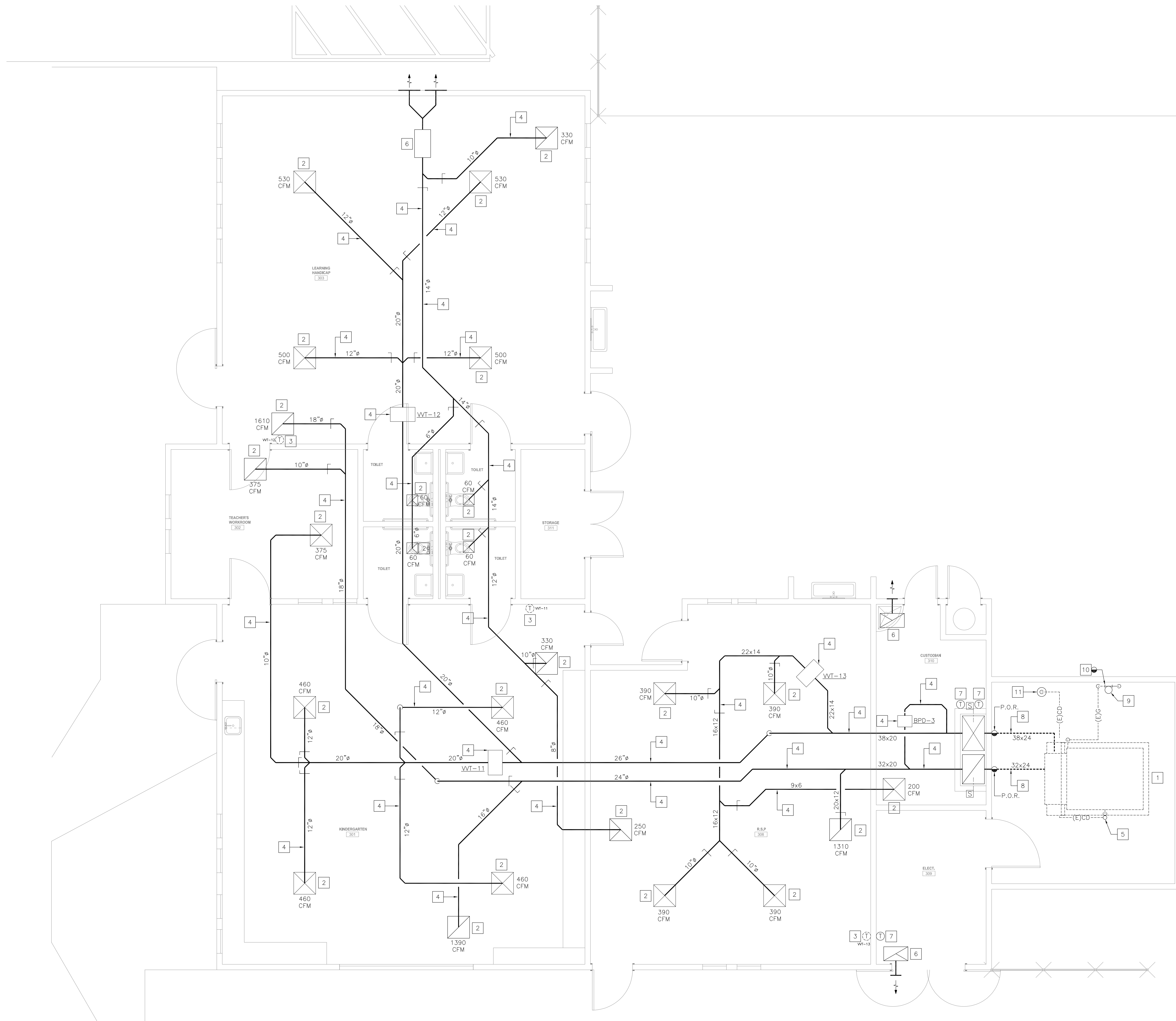
SHEET TITLE:
MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 200

SHEET NUMBER:
MD2-1.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
22825			07/18/23

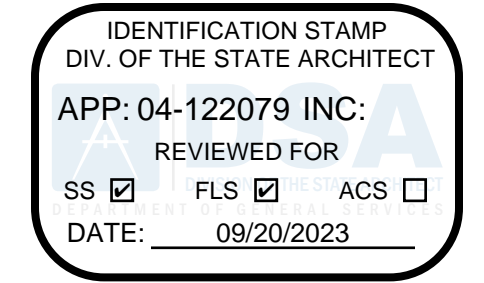
MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 200 (LIBRARY)

1
1/4" = 1'-0"



DEMOLITION NOTES

- 1.- REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT INCLUDING POWER EXHAUST AND PLENUM CURB. DISCONNECT ALL UTILITIES AND SIDE DISCHARGE DUCTWORK. MODIFY SIDE DISCHARGE DUCTWORK FOR RECONNECTION AT P.O.R. AS INDICATED. REMOVE EXISTING CONCRETE PAD. PERFORM DUCTWORK CLEANING PROCESS FIRST. THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 3.- REMOVE EXISTING THERMOSTAT. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 5.- P.O.R.- REMOVE EXISTING GRADE MOUNTED CONDENSATE DRAIN PIPING IN ITS ENTIRETY.
- 6.- EXISTING EXHAUST FAN TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 7.- EXISTING THERMOSTAT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 8.- REMOVE EXISTING EXTERIOR GRADE MOUNTED DUCTWORK AS INDICATED. MODIFY EXISTING DUCTWORK AT P.O.R. FOR RECONNECTION TO NEW DUCTWORK. SEE RENOVATION DRAWING FOR ADDITIONAL INFORMATION.
- 9.- EXISTING GAS PRESSURE REGULATOR AND ASSOCIATED PIPING LOCATED ABV. GRADE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 10.- P.O.R.- REMOVE EXISTING GAS PIPING DOWNSTREAM OF EXISTING GAS PRESSURE REGULATOR ABV. GRADE TO A/C UNIT AND MODIFY FOR RECONNECTION. SEE RENOVATION DRAWING FOR ADDITIONAL INFORMATION.
- 11.- EXISTING FLOOR RECEPTOR TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.



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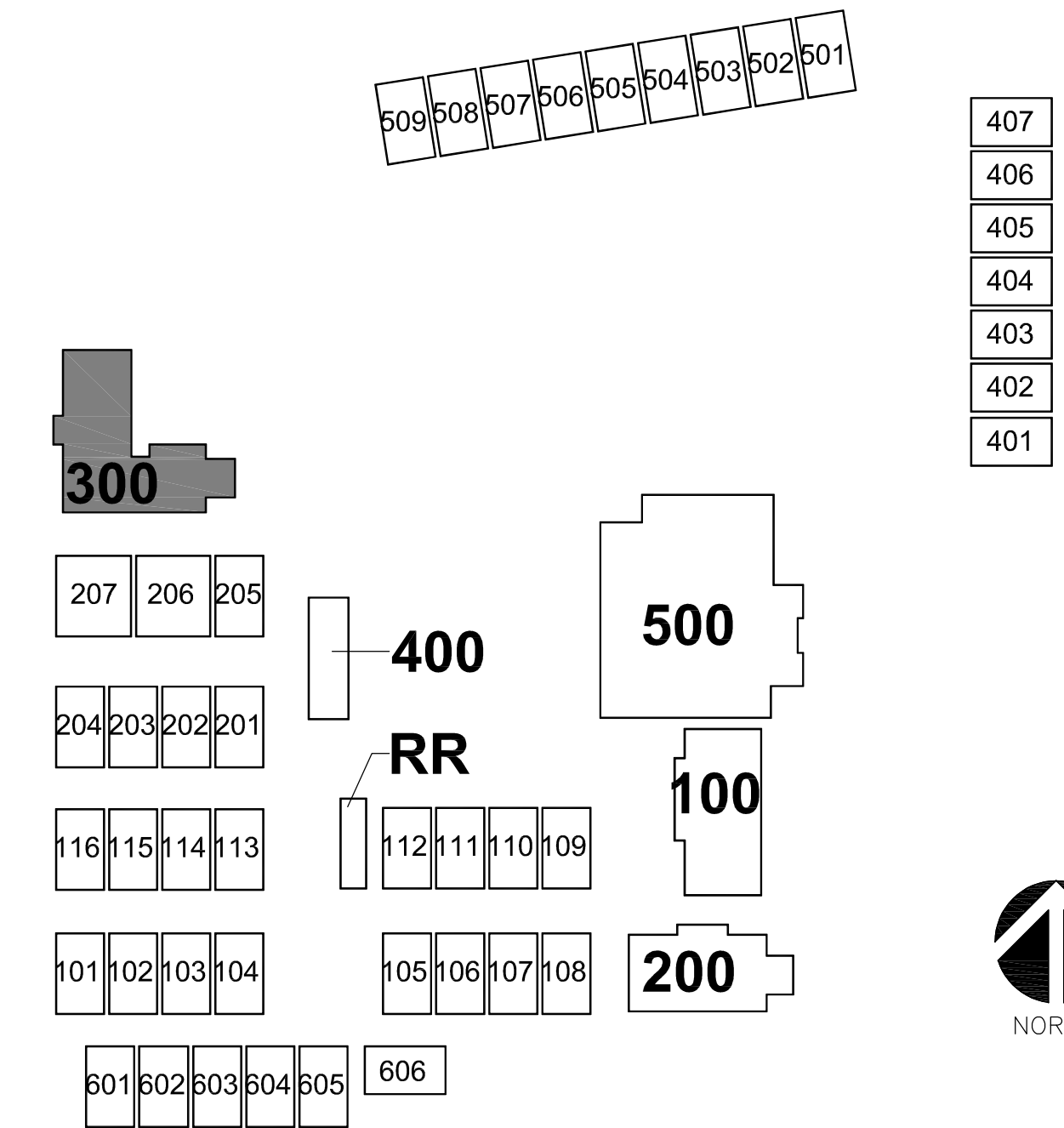
AIR BALANCE NOTE

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GENERAL DEMOLITION NOTES


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KEY PLAN



ISSUED FOR:

REVISIONS:

REGISTRATION/SIGNATURE:


SHEET TITLE:
**MECHANICAL
 DEMOLITION FLOOR
 PLAN - BUILDING 300**

SHEET NUMBER:
MD2-1.3

WD PROJ. #	DRAWN BY:	CHECKED	DATE
22825			07/18/23

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MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 300 (KINDERGARTEN)

P:\600-Westgroup Designs\600-030_VESD_17_Sites_HVAC_Replacement\Drawings\Brentwood ES\Mechanical\MD2-1.3.dwg Aug 30, 2023 - 10:10am iggy

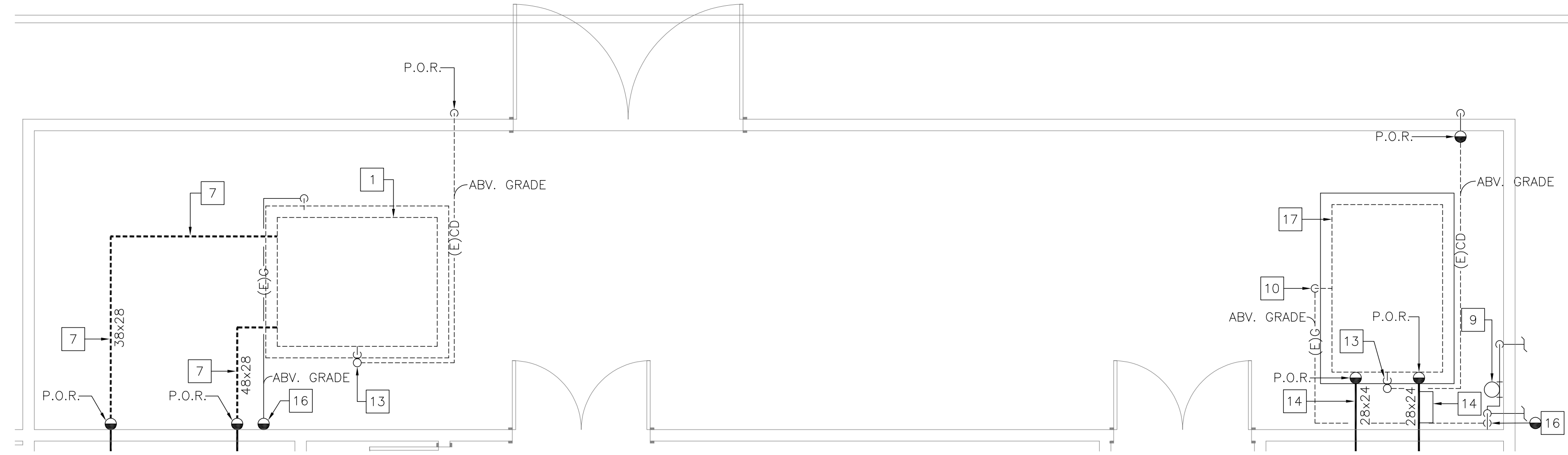


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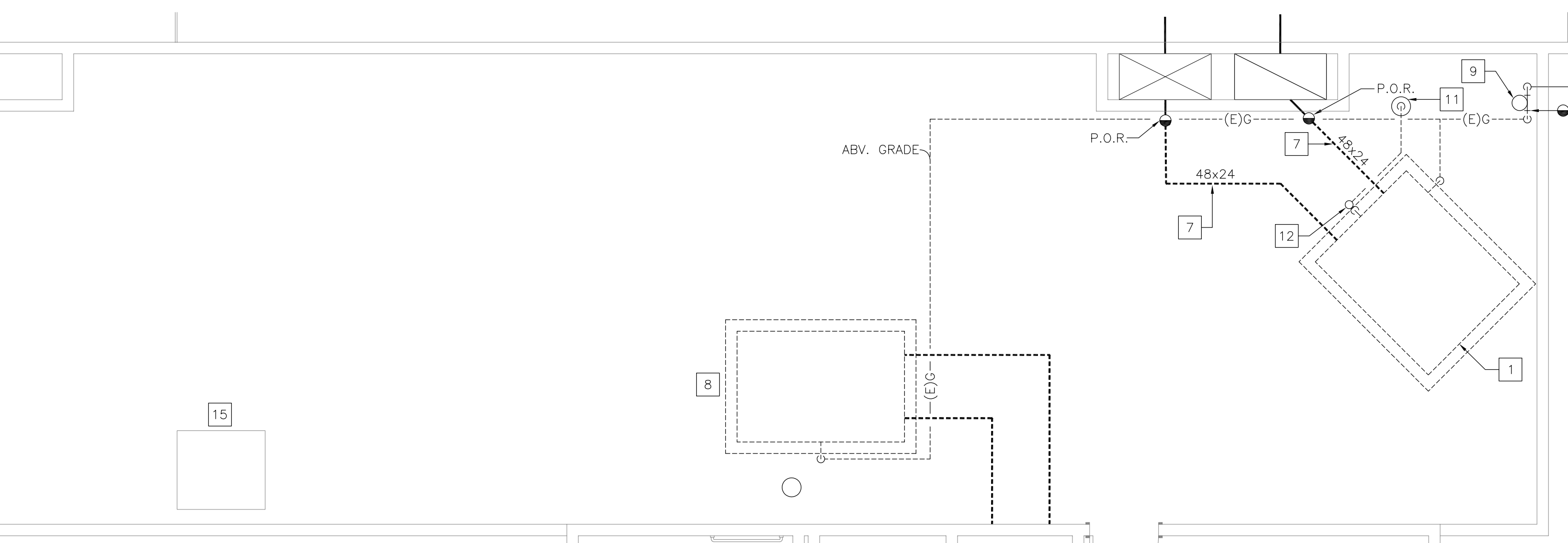
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SCHOOL DISTRICT
 13962 HOOK BLVD.
 VICTORVILLE, CA 92394

ISSUED FOR:

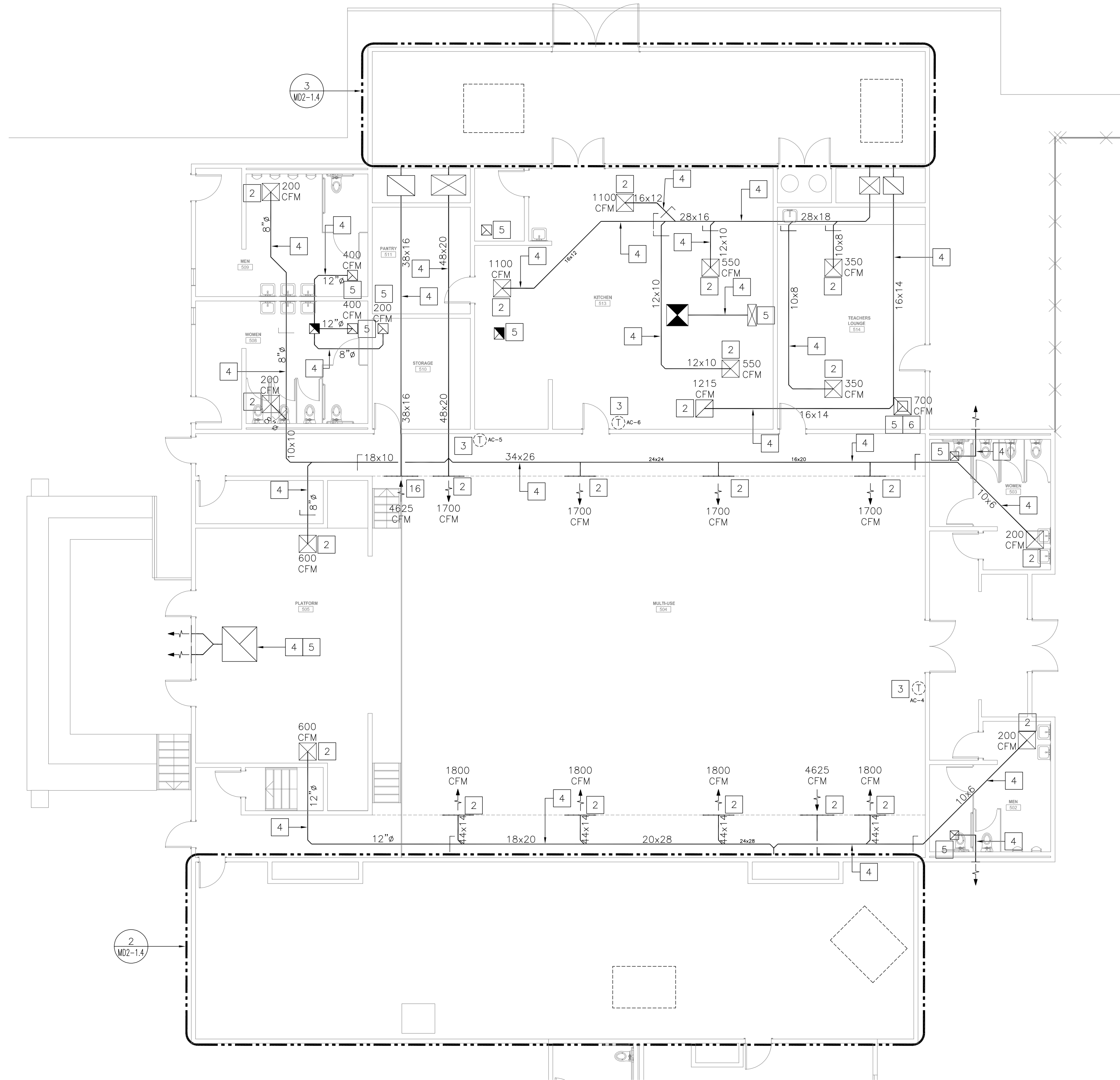
REVISIONS:



MECHANICAL DEMOLITION ENLARGED FLOOR PLAN - BUILDING 500 (MULTI-PURPOSE) 3
 1/4" = 1'-0"



MECHANICAL DEMOLITION ENLARGED FLOOR PLAN - BUILDING 500 (MULTI-PURPOSE) 2
 1/4" = 1'-0"



MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 500 (MULTI-PURPOSE) 1
 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

- G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.
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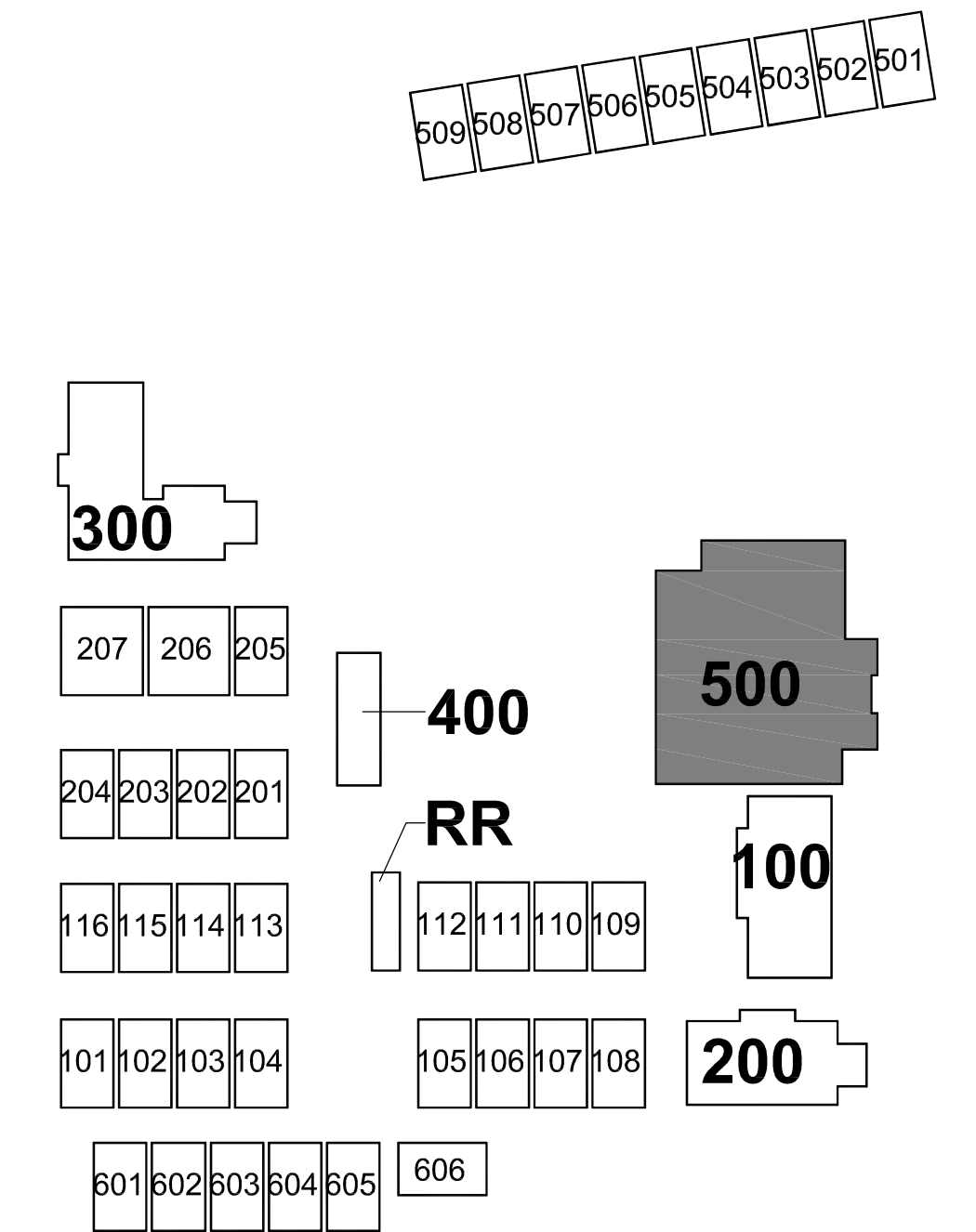
AIR BALANCE NOTE

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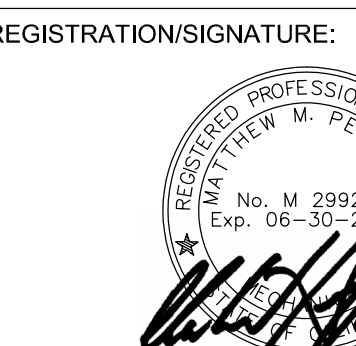
- 15.- EXISTING ELECTRICAL EQUIPMENT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 16.- P.O.R.- REMOVE EXISTING GAS PIPING AT FITTING ABV. GRADE TO A/C UNIT AND MODIFY FOR RECONNECTION.
- 17.- REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT INCLUDING POWER EXHAUST. DISCONNECT ALL UTILITIES AND SIDE DISCHARGE DUCTWORK. MODIFY SIDE DISCHARGE DUCTWORK FOR RECONNECTION AT P.O.R. AS INDICATED. EXISTING CONCRETE PAD TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.

DEMOLITION NOTES KEY PLAN

- 1.- REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT INCLUDING POWER EXHAUST AND PLENUM CURB. DISCONNECT ALL UTILITIES AND SIDE DISCHARGE DUCTWORK. MODIFY SIDE DISCHARGE DUCTWORK FOR RECONNECTION AT P.O.R. AS INDICATED. REMOVE EXISTING CONCRETE PAD. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. PREPARE AREA OF REMOVAL TO RECEIVE NEW GRADE MOUNTED AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 3.- REMOVE EXISTING THERMOSTAT. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 5.- EXISTING CEILING DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 6.- EXISTING EXHAUST FAN TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 7.- REMOVE EXISTING EXTERIOR GRADE MOUNTED DUCTWORK AS INDICATED. MODIFY EXISTING DUCTWORK AT P.O.R. FOR RECONNECTION TO NEW DUCTWORK. SEE RENOVATION DRAWING FOR ADDITIONAL INFORMATION.
- 8.- SEE SHEET MD2-1.1 FOR SCOPE OF WORK OF EXISTING A/C UNIT SERVING BUILDING 100 (ADMINISTRATION).
- 9.- EXISTING GAS PRESSURE REGULATOR AND ASSOCIATED PIPING LOCATED ABV. GRADE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 10.- P.O.R.- REMOVE EXISTING GAS PIPING DOWNSTREAM OF EXISTING GAS PRESSURE REGULATOR ABV. GRADE TO A/C UNIT AND MODIFY FOR RECONNECTION.
- 11.- EXISTING FLOOR RECEPTOR TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 12.- P.O.R.- REMOVE EXISTING GRADE MOUNTED CONDENSATE DRAIN PIPING IN ITS ENTIRETY.
- 13.- REMOVE EXISTING GRADE MOUNTED CONDENSATE DRAIN PIPING UP TO P.O.R. AS INDICATED. MODIFY PIPING ABV. GRADE FOR RECONNECTION. SEE RENOVATION DRAWING FOR ADDITIONAL INFORMATION.
- 14.- EXISTING GRADE MOUNTED SA/RA DUCTWORK INCLUDING SUPPORTS AND BAROMETRIC RELIEF DAMPER ON RA DUCTWORK TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. MODIFY DUCTWORK AT P.O.R. FOR RECONNECTION OF NEW DUCTWORK AS INDICATED.



- 407
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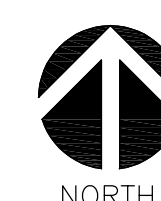


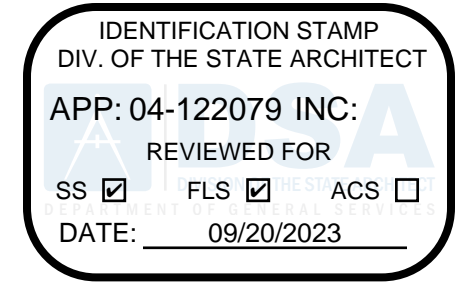
REGISTRATION/SIGNATURE:
MECHANICAL
DEMOLITION FLOOR
PLAN - BUILDING 500

SHEET NUMBER:
MD2-1.4

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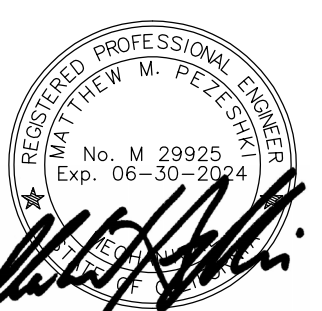
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SHEET TITLE:
**MECHANICAL
DEMOLITION FLOOR
PLAN - RELOCATABLES**
SHEET NUMBER:
MD2-1.6

WD PROJ. # 22825 | DRAWN BY: | CHECKED: | DATE 07/18/23

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DEMOLITION NOTES

- REMOVE EXISTING WALL MOUNTED HEAT PUMP UNIT. DISCONNECT ALL UTILITIES AND DUCTWORK. MODIFY EXISTING DUCTWORK FOR RECONNECTION. REMOVE EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY. PERFORM DUCTWORK CLEANING PROCESS FIRST. THEN INSTALL NEW WALL MOUNTED HEAT PUMP UNIT. PREPARE AREA OF REMOVAL TO RECEIVE NEW WALL MOUNTED HEAT PUMP. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES AND DUCTWORK. MODIFY EXISTING DUCTWORK FOR RECONNECTION. MODIFY GAS PIPING FOR RECONNECTION. REMOVE EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY. PERFORM DUCTWORK CLEANING PROCESS FIRST. THEN INSTALL NEW WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT. PREPARE AREA OF REMOVAL TO RECEIVE NEW SOUND ISOLATION CURB AND WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING PROTECTIVE CAGE WITH EXTREME CAUTION FOR RE-INSTALLATION AFTER REPLACEMENT UNIT IS INSTALLED. RE-PAINT PROTECTIVE CAGE TO MATCH EXISTING RE-LOCATABLE CLASSROOM WALL FINISH. TYPICAL FOR RE-LOCATABLE CLASSROOMS 205, 206 AND 207.

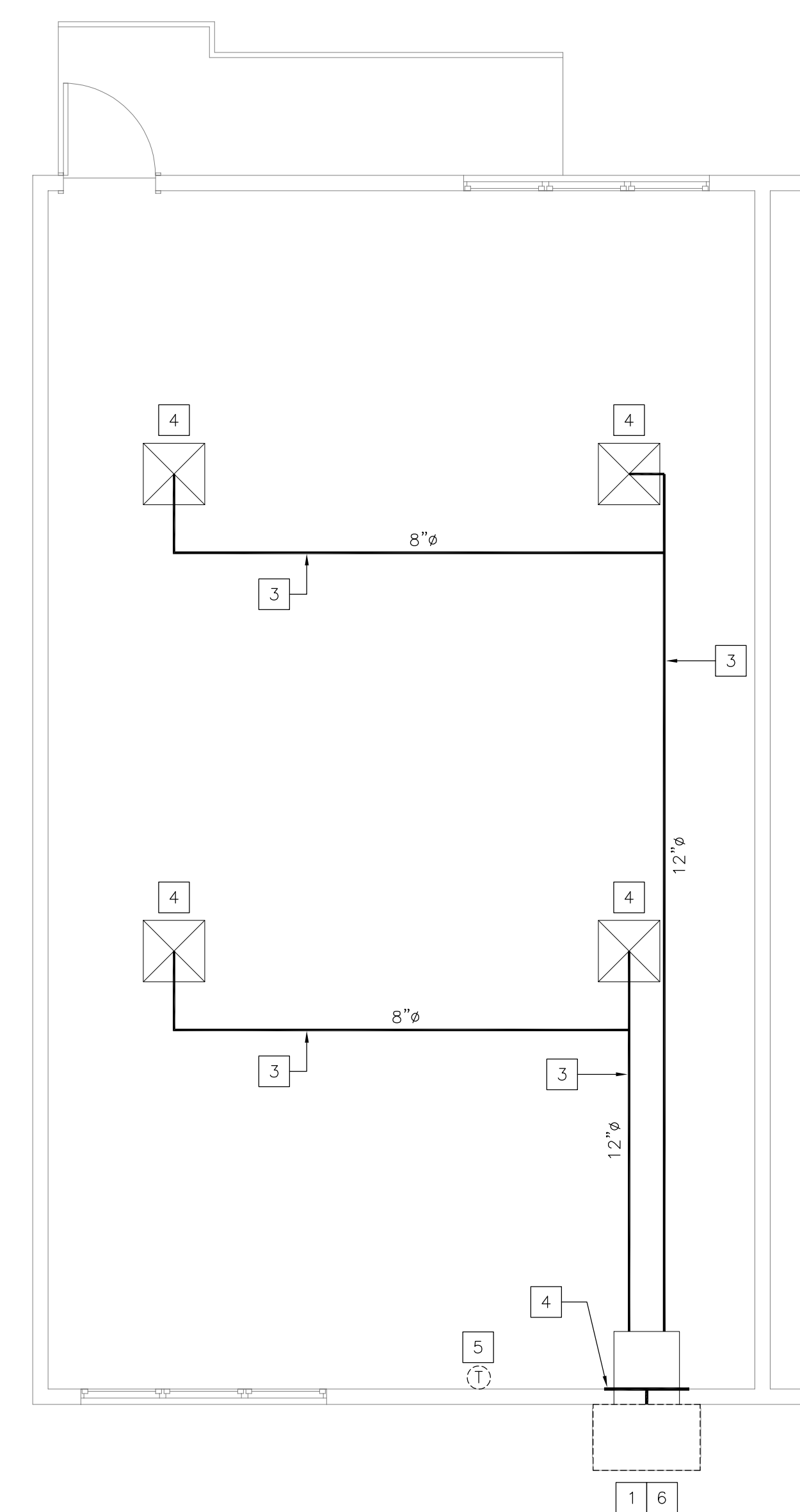
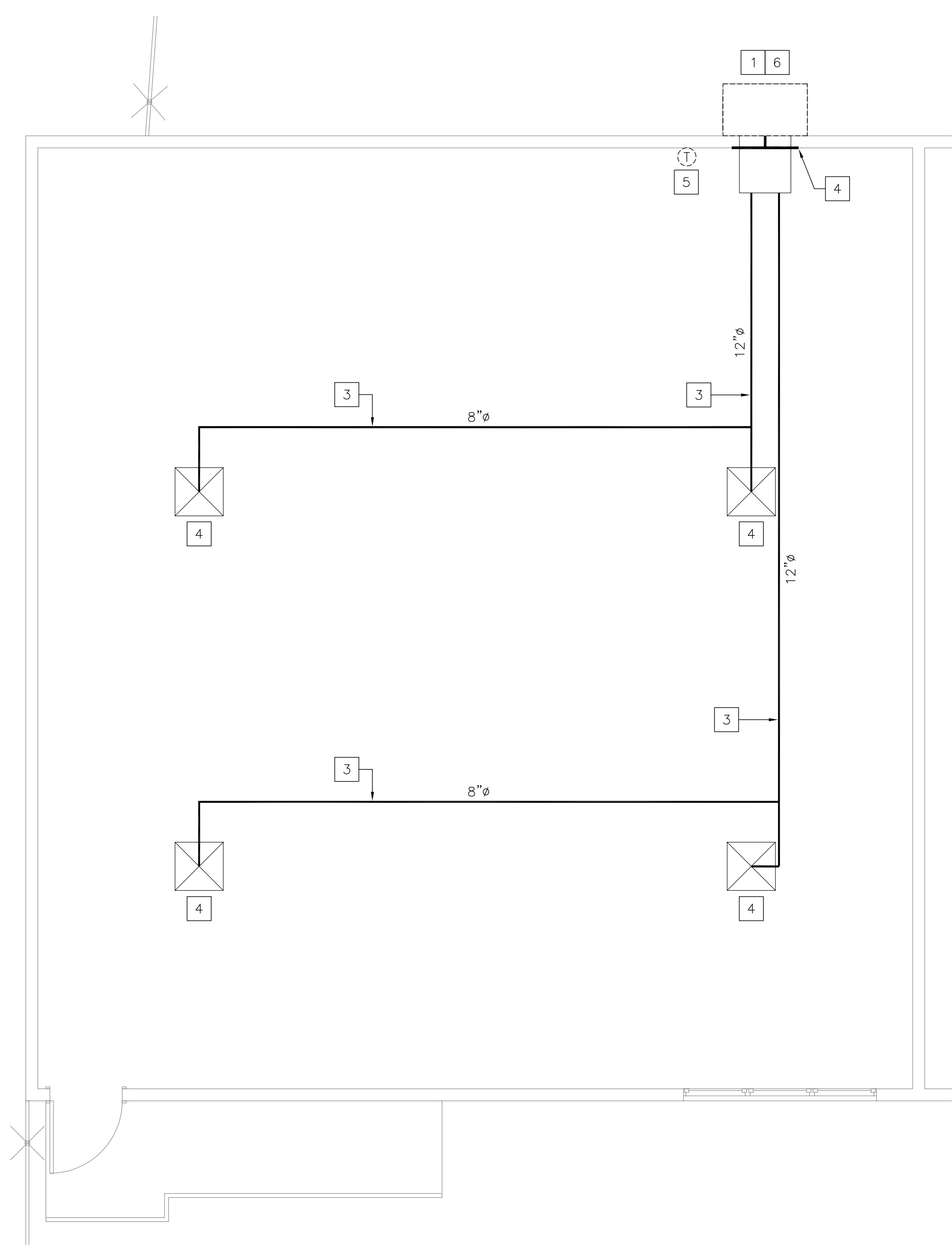
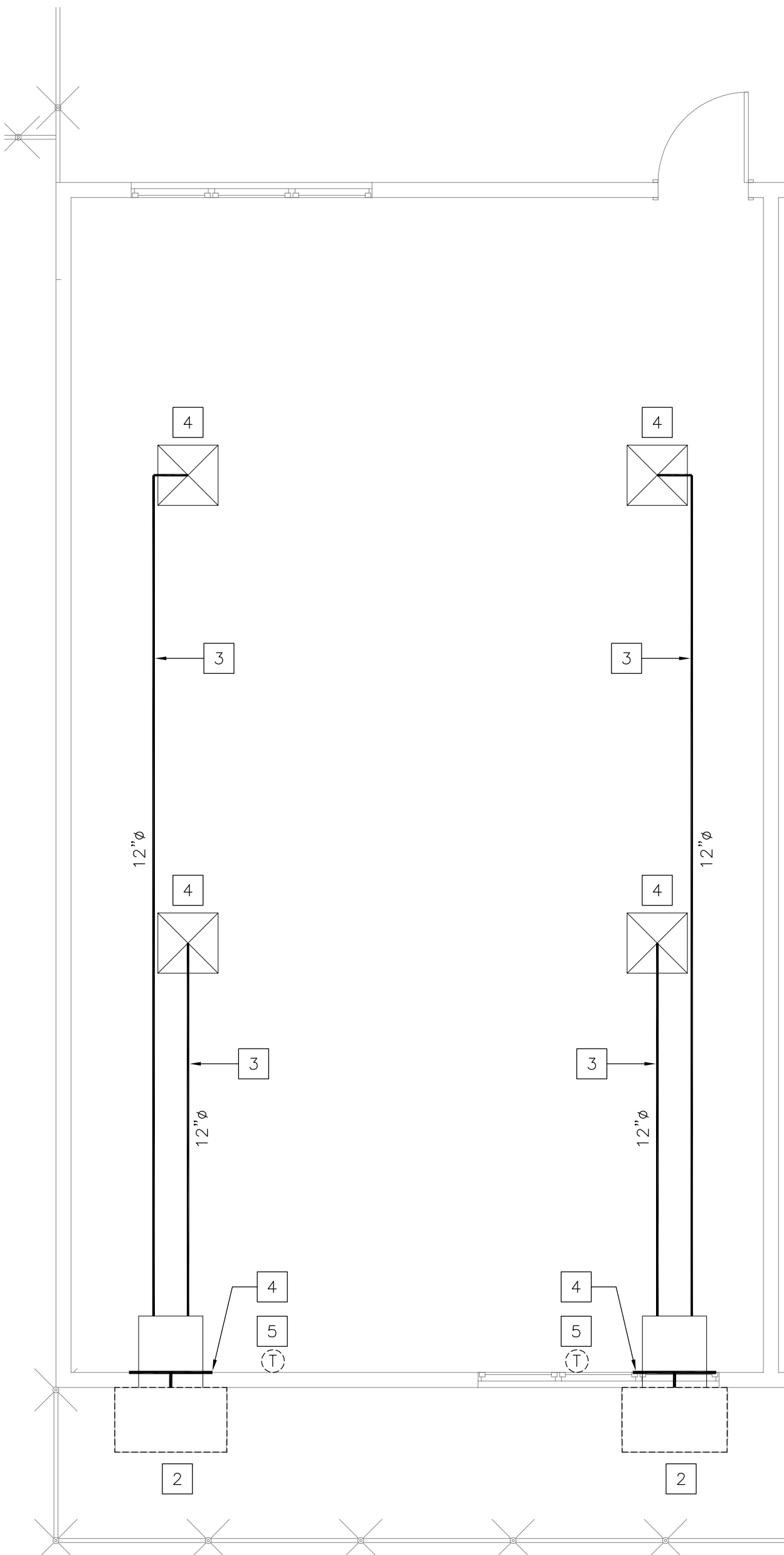
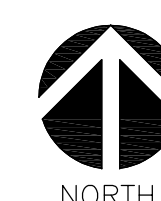
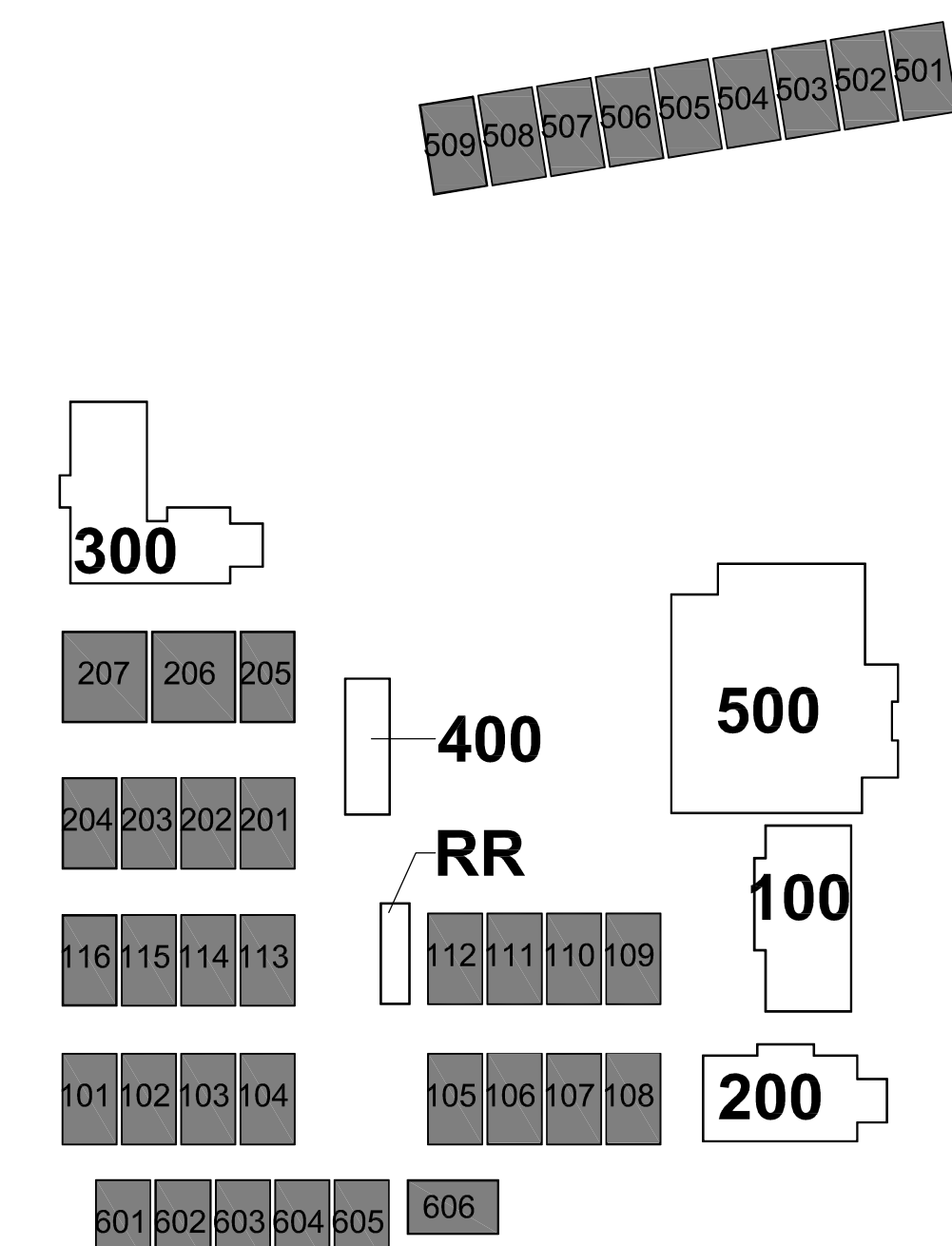
AIR BALANCE NOTE

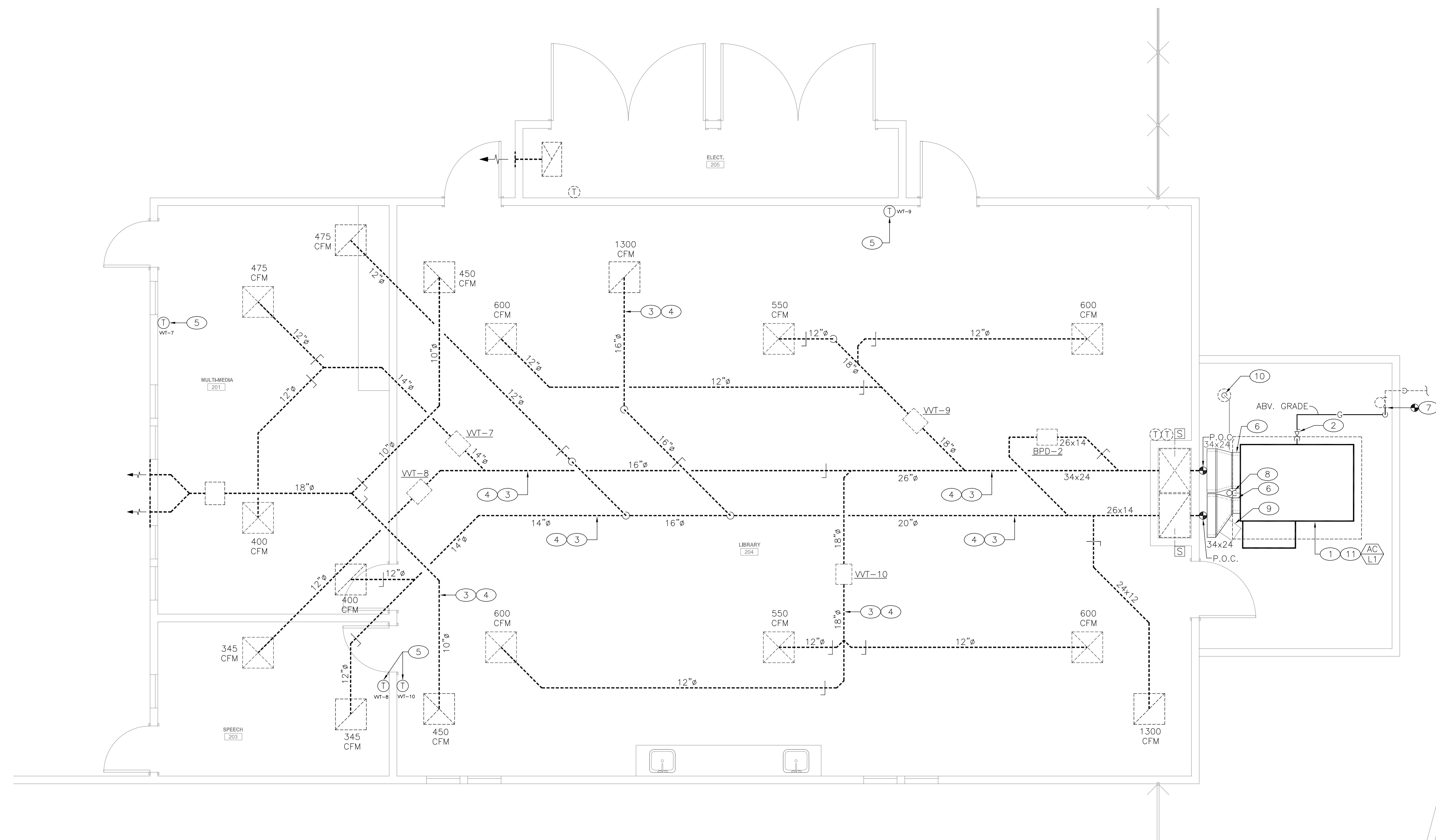
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KEY PLAN



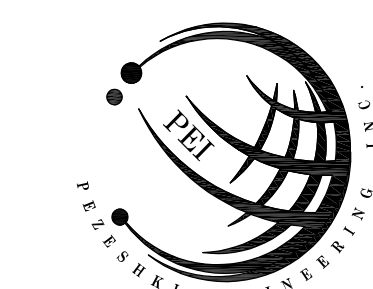


PLAN NOTES

- 1.- GRADE MOUNTED PACKAGED AIR CONDITIONER UNIT ON EXISTING CONCRETE PAD. SEE NOTE 11 ON THIS SHEET, SCHEDULE ON SHEET M0-1.1 AND DETAILS 1 & 4/M0-2.1 FOR ADDITIONAL INFORMATION. EXTEND EXISTING CONCRETE PAD AS REQUIRED TO PROVIDE A 6" MIN. EDGE CLEARANCE BETWEEN EDGE OF THE PAD AND NEW AC UNIT FOR UNIT ANCHORAGE REQUIREMENTS.
- 2.- 1" GAS COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6"-0" O.C.). PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR. SEE DETAIL 6/M0-2.2 FOR ADDITIONAL INFORMATION.
- 3.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.
- 5.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET M0-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.
- 6.- GRADE MOUNTED DUCTWORK. SEE DETAIL 8/M0-2.2 FOR ADDITIONAL INFORMATION.
- 7.- P.O.C. - 1" GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ABV. GRADE DOWNSTREAM OF EXISTING GAS PRESSURE REGULATOR. EXTEND SERVICE AS INDICATED. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6"-0" O.C.). PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR.
- 8.- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT. EXTEND CD ABV. GRADE TO EXISTING FLOOR RECEPTOR COMPLETE WITH LEGAL AIR-GAP. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6"-0" O.C.). SEE DETAIL 3/M0-2.2 FOR ADDITIONAL INFORMATION.
- 9.- INSTALL TWO (2) MICROMETL NO. 0876-0500 (12"x12") BAROMETRIC RELIEF DAMPERS ON RETURN AIR DUCTWORK.
- 10.- DISCHARGE 3/4" CD (COPPER TYPE 'M') INTO EXISTING FLOOR RECEPTOR COMPLETE WITH LEGAL AIR-GAP. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK.
- 11.- RE-INSTALL EXISTING EMS CONTROLLERS ON THE NEW A/C UNIT. SEE DEMOLITION FLOOR PLAN AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

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DIV. OF THE STATE ARCHITECT
APP: 04-122079 INC.
REVIEWED FOR
 SS FLS ACS
DATE: 09/20/2023

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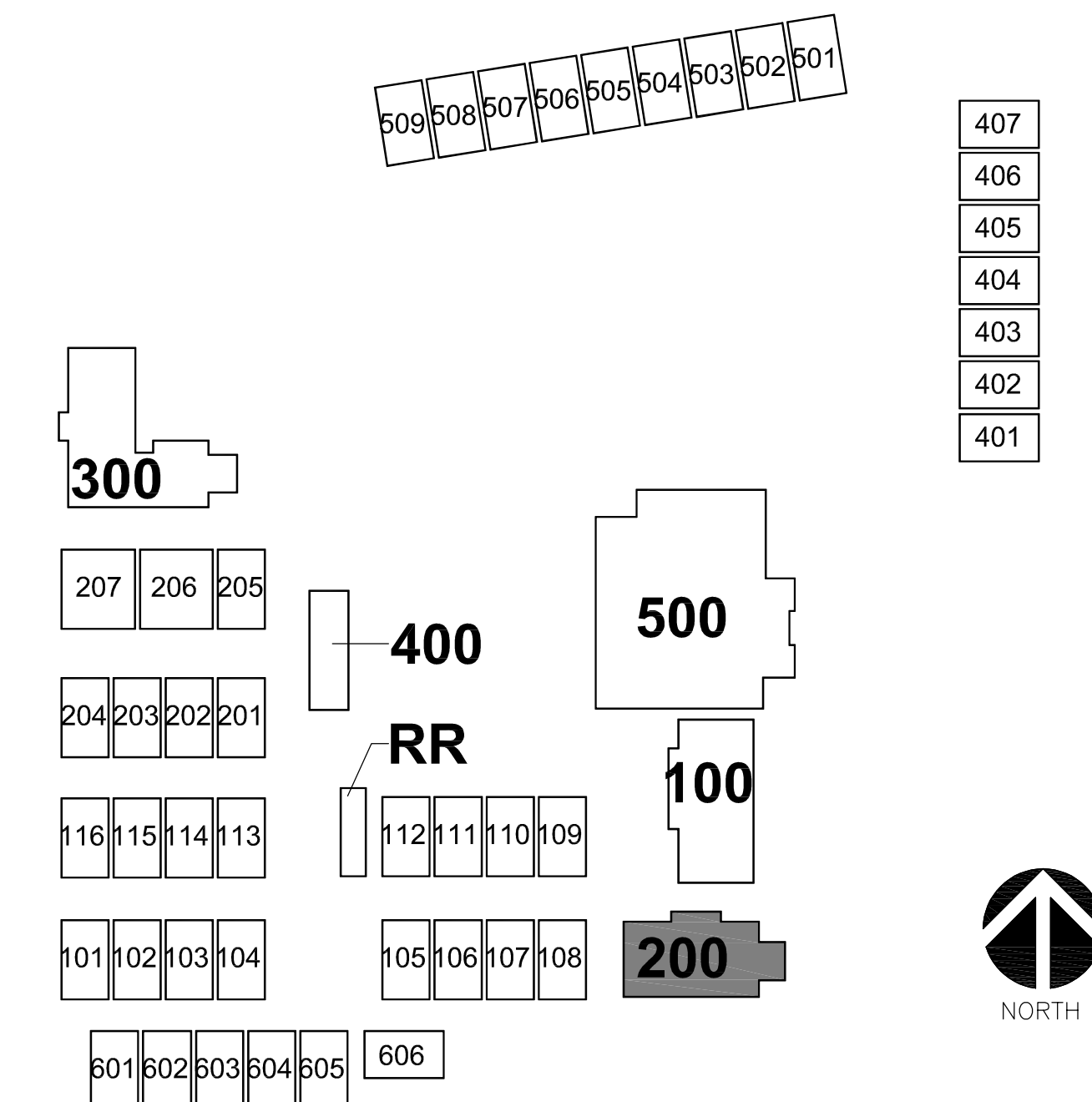
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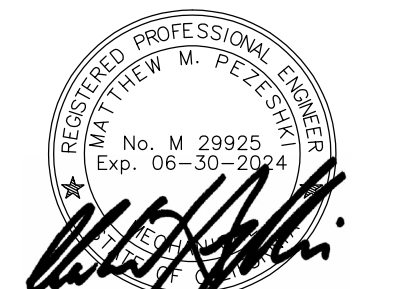
KEY PLAN



MECHANICAL RENOVATION FLOOR PLAN - BUILDING 200 (LIBRARY)

1

1/4" = 1'-0"

REGISTRATION/SIGNATURE:


SHEET TITLE:
**MECHANICAL
RENOVATION FLOOR
PLAN - BUILDING 200**

SHEET NUMBER:
M2-1.2

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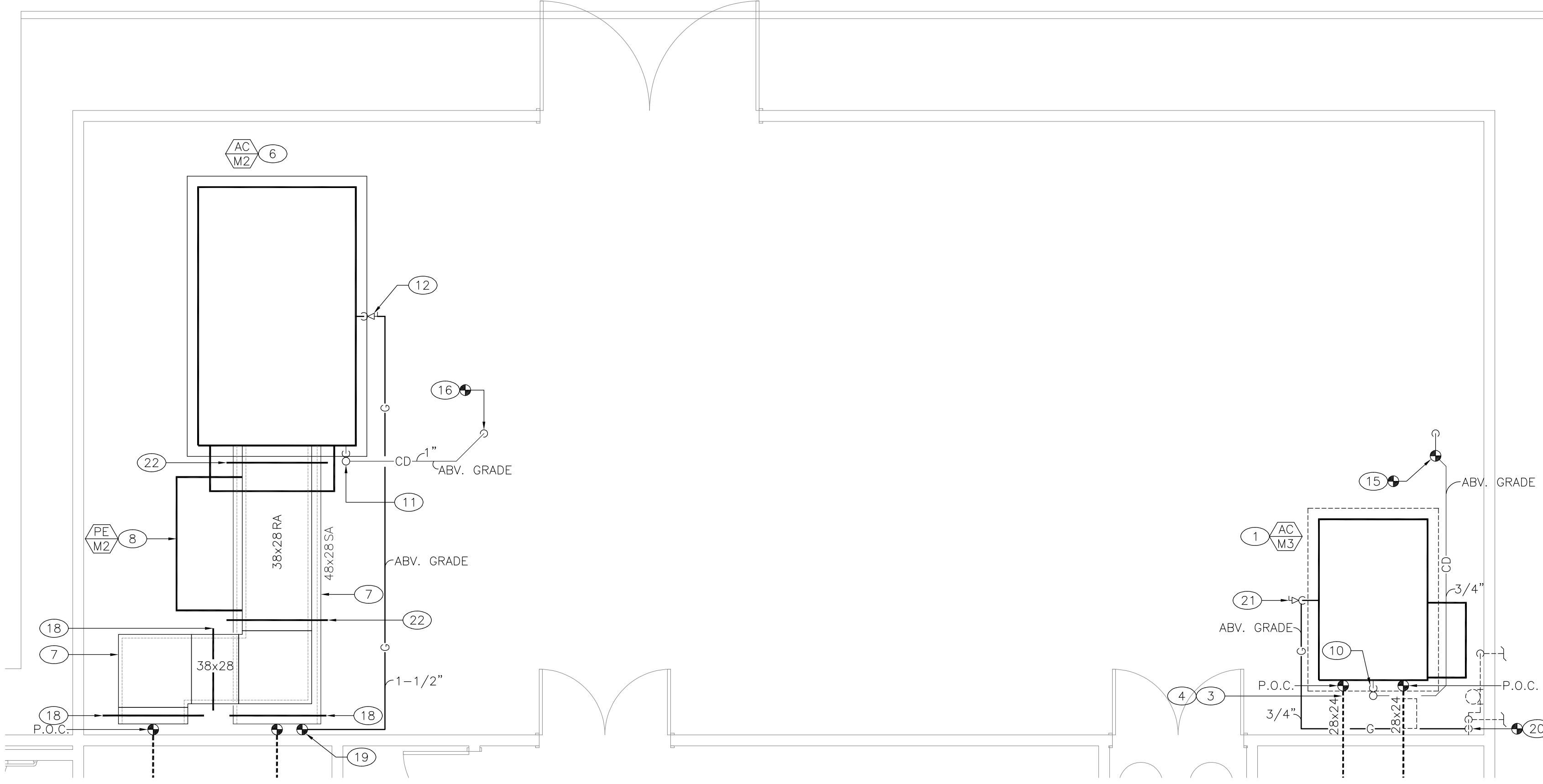


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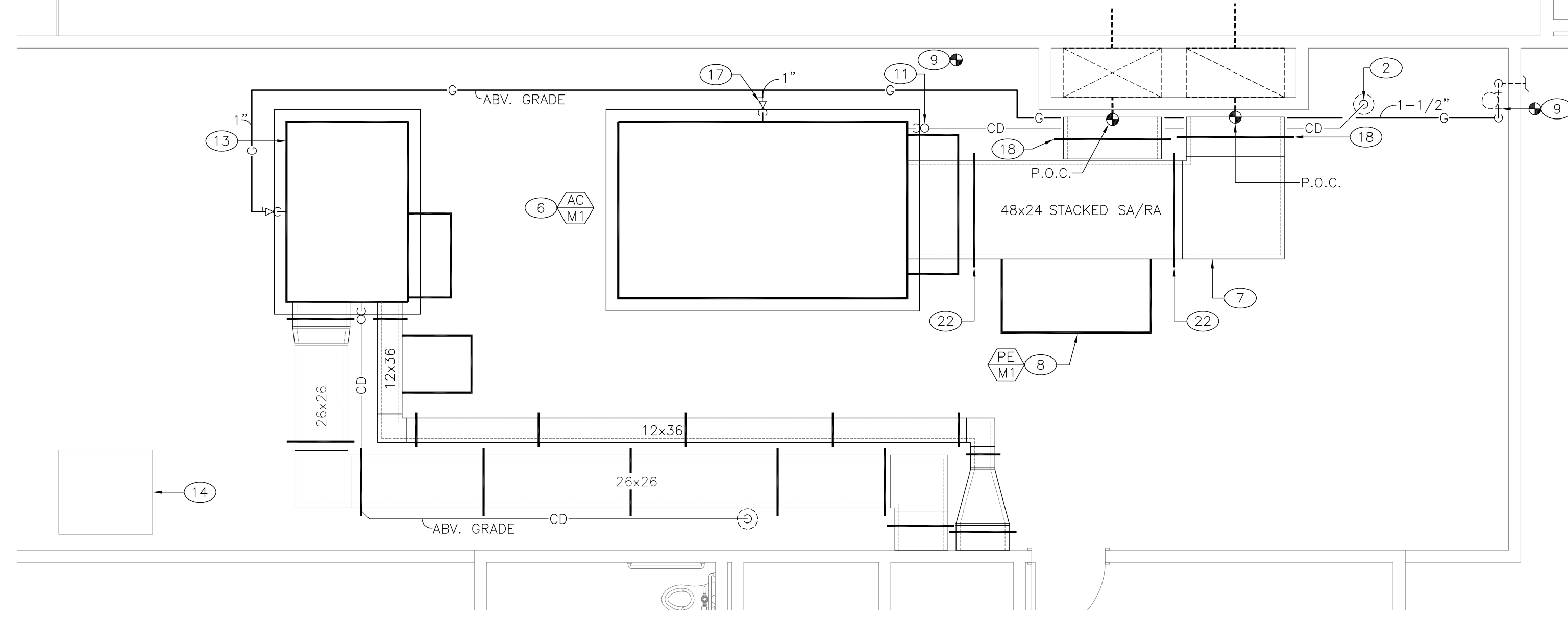
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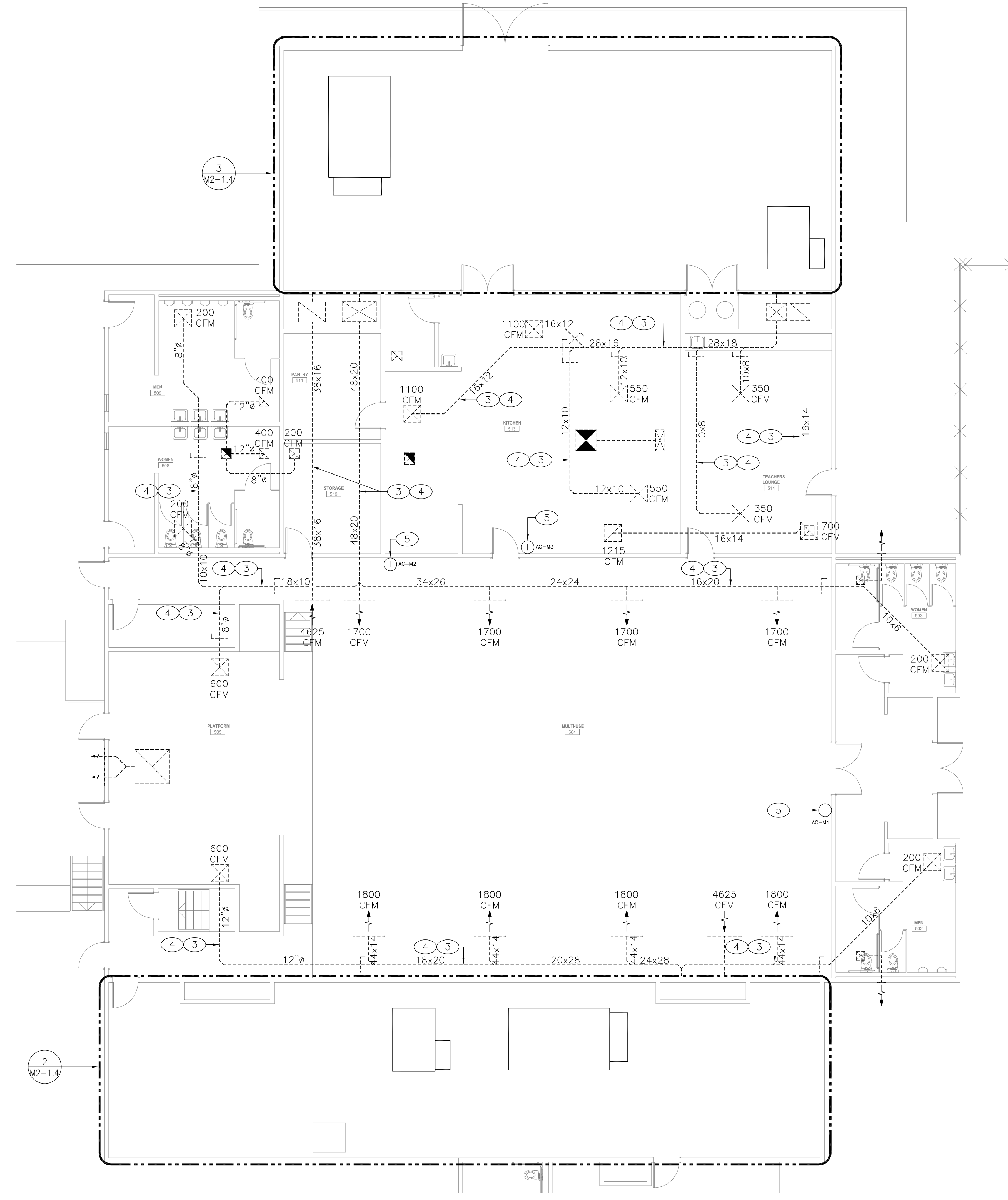
REVISIONS:



MECHANICAL RENOVATION ENLARGED FLOOR PLAN - BUILDING 500 (MULTI-PURPOSE) **3**
 1/4" = 1'-0"



MECHANICAL RENOVATION ENLARGED FLOOR PLAN - BUILDING 500 (MULTI-PURPOSE) **2**
 1/4" = 1'-0"

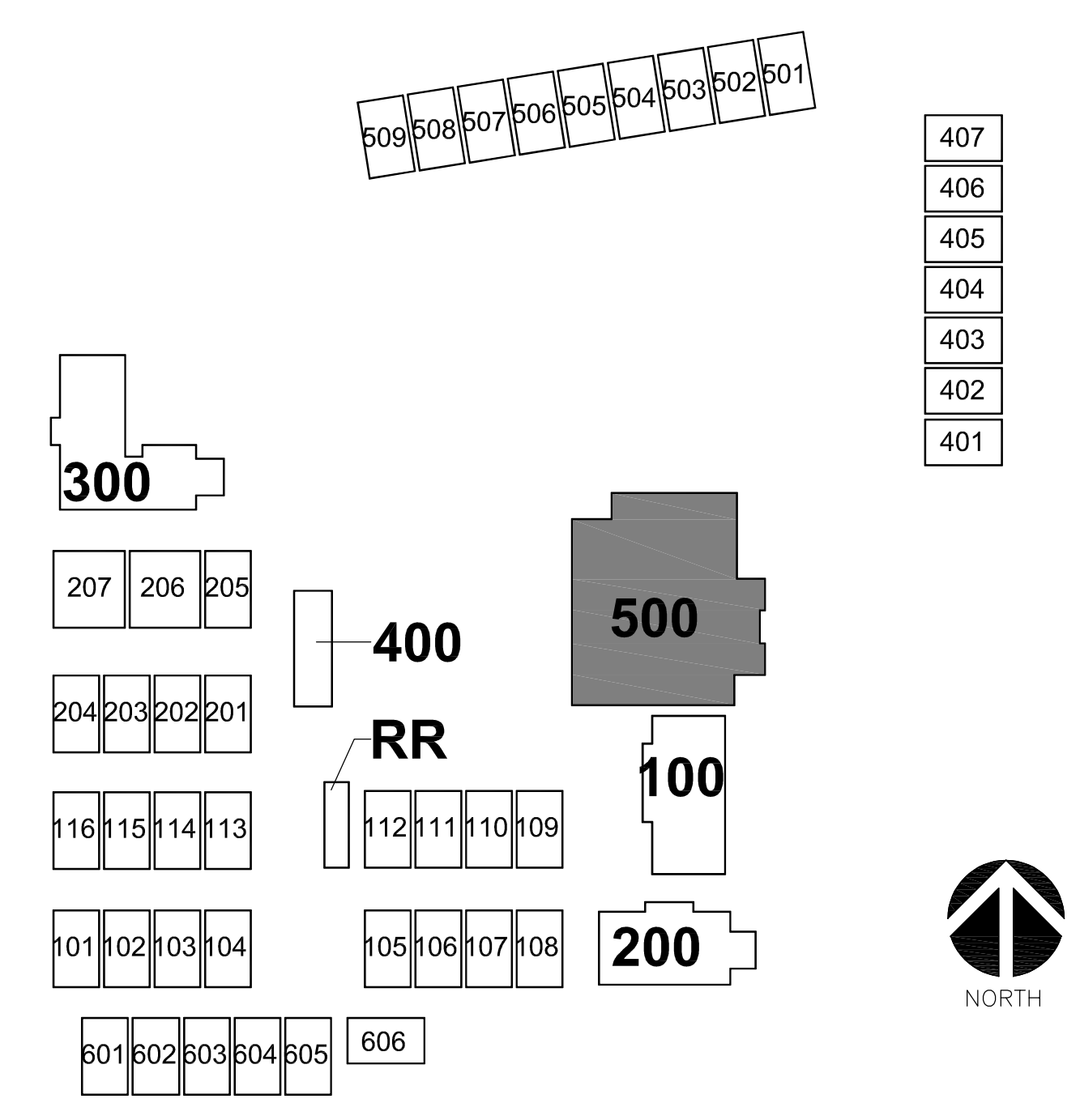


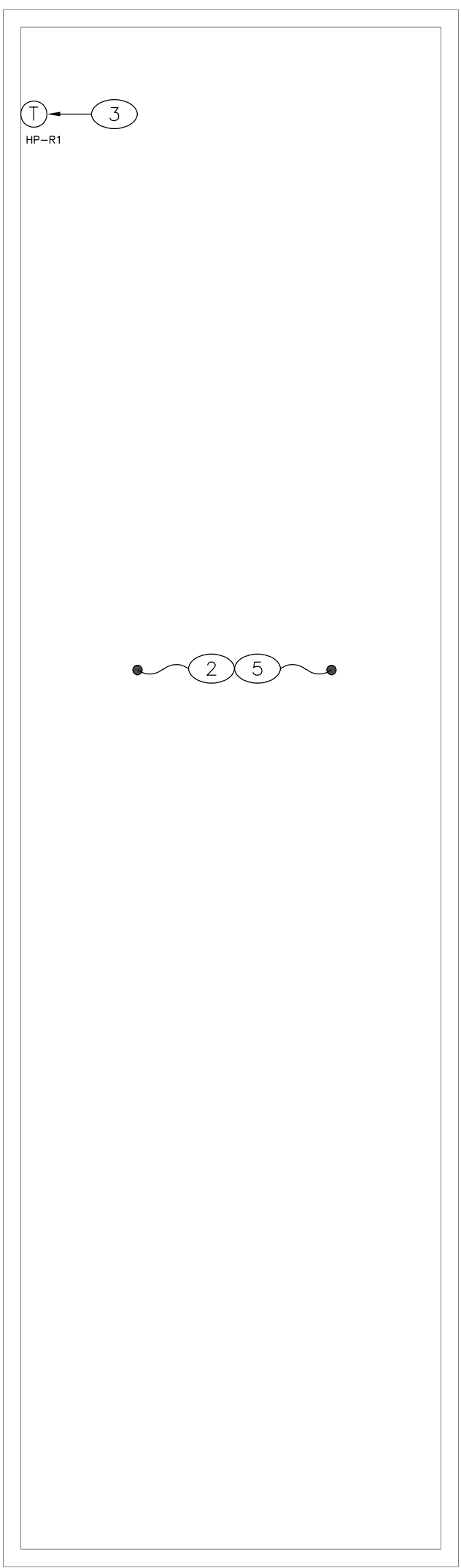
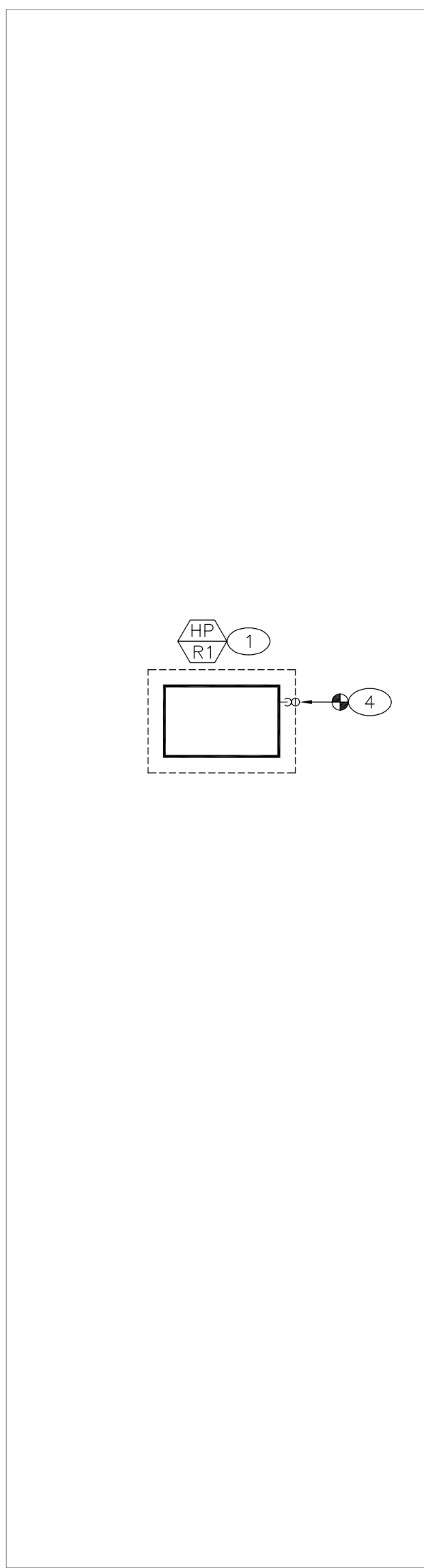
MECHANICAL RENOVATION FLOOR PLAN - BUILDING 500 (MULTI-PURPOSE) **1**
 1/8" = 1'-0"

○ PLAN NOTES KEY PLAN

- 12.- 1-1/2" (SCH. 40 BLACK STEEL) GAS COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.), PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR. SEE DETAIL 6/MO-2.2 FOR ADDITIONAL INFORMATION.
- 13.- SEE SHEET M2-1.1 FOR SCOPE OF WORK OF NEW A/C UNIT (AC-1) SERVING BUILDING 100 (ADMINISTRATION). SHOWN ON THIS SHEET FOR REFERENCE ONLY.
- 14.- EXISTING ELECTRICAL EQUIPMENT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 15.- P.O.C. - 3/4" CD (COPPER TYPE 'M') TO EXISTING PIPING ABV. GRADE. FIELD VERIFY EXACT LOCATION AND PIPE SIZE PRIOR TO START OF WORK.
- 16.- P.O.C. - 1" CD (COPPER TYPE 'M') TO EXISTING PIPING ABV. GRADE. FIELD VERIFY EXACT LOCATION AND PIPE SIZE PRIOR TO START OF WORK.
- 17.- 1" GAS (SCH. 40 BLACK STEEL) COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.), PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR. SEE DETAIL 6/MO-2.2 FOR ADDITIONAL INFORMATION.
- 18.- GRADE MOUNTED DUCT SUPPORT, SET AT 6'-0" O.C. MAX. SEE DETAIL 8/MO-2.2 FOR ADDITIONAL INFORMATION.
- 19.- P.O.C. - 1-1/2" GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING AT WALL. EXTEND SERVICE AS INDICATED. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.), PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR.
- 20.- P.O.C. - 3/4" GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ABV. GRADE AT TEE FITTING. EXTEND SERVICE AS INDICATED. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.), PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR.
- 21.- 3/4" GAS (SCH. 40 BLACK STEEL) COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.), PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR. SEE DETAIL 6/MO-2.2 FOR ADDITIONAL INFORMATION.
- 22.- GRADE MOUNTED DUCT SUPPORT, SET AT 6'-0" O.C. MAX. SEE DETAIL 8/MO-2.1 FOR ADDITIONAL INFORMATION.

- 1.- GRADE MOUNTED PACKAGED AIR CONDITIONER UNIT ON EXISTING CONCRETE PAD. SEE SCHEDULE ON SHEET MO-1.1 AND DETAILS 1 & 4/MO-2.1 FOR ADDITIONAL INFORMATION.
- 2.- DISCHARGE 1" CD (COPPER TYPE 'M') INTO EXISTING FLOOR RECEPTOR COMPLETE WITH LEGAL AIR-GAP. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK.
- 3.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.
- 5.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET MO-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.
- 6.- GRADE MOUNTED PACKAGED AIR CONDITIONER UNIT WITH PLENUM CURB ON NEW CONCRETE PAD. SEE SCHEDULE ON SHEET MO-1.1 AND DETAILS 1 & 2/MO-2.2 FOR ADDITIONAL INFORMATION. STACK SUPPLY AIR DUCTWORK UNDER RETURN AIR DUCTWORK AS REQUIRED AND CONNECT TO EXISTING DUCTWORK AS INDICATED.
- 7.- GRADE MOUNTED DUCTWORK. SEE DETAIL 8/MO-2.1 FOR ADDITIONAL INFORMATION.
- 8.- INSTALL POWER EXHAUST MODULE ON RETURN AIR DUCTWORK PER MANUFACTURER'S RECOMMENDATION AND GUIDELINES.
- 9.- P.O.C. - 1-1/2" GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ABV. GRADE DOWNSTREAM OF EXISTING GAS PRESSURE REGULATOR. EXTEND SERVICE AS INDICATED. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.), PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR.
- 10.- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT. EXTEND CD ABV. GRADE AS INDICATED. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.). SEE DETAIL 3/MO-2.2 FOR ADDITIONAL INFORMATION.
- 11.- 1" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT. EXTEND CD ABV. GRADE AS INDICATED. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.). SEE DETAIL 3/MO-2.2 FOR ADDITIONAL INFORMATION.





MECHANICAL RENOVATION ROOF PLAN - RESTROOM BUILDING

2
1/4" = 1'-0"

MECHANICAL RENOVATION FLOOR PLAN - RESTROOM BUILDING

1
1/4" = 1'-0"

PLAN NOTES

- 1.- ROOFTOP HEAT PUMP UNIT. SEE SCHEDULE ON SHEET M0-1.2 AND DETAIL 9/M0-2.1 FOR ADDITIONAL INFORMATION.
- 2.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 3.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET M0-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.
- 4.- P.O.C.- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT TO EXISTING PIPING ON ROOF PER DETAIL 2/M0-2.1. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. SEE DETAIL 2/M0-2.1 FOR ADDITIONAL INFORMATION.
- 5.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.

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APP: 04-122079 INC:
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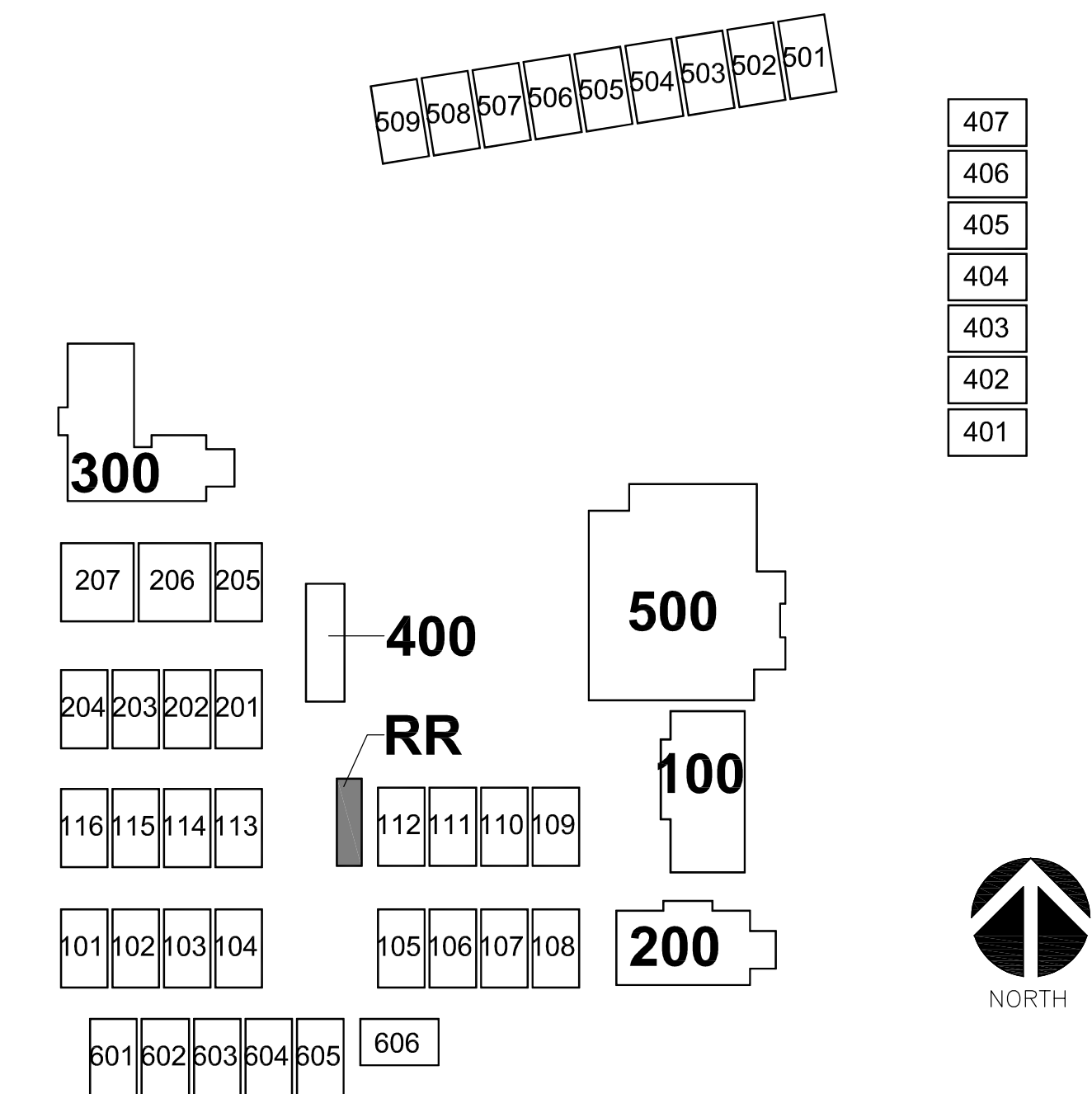
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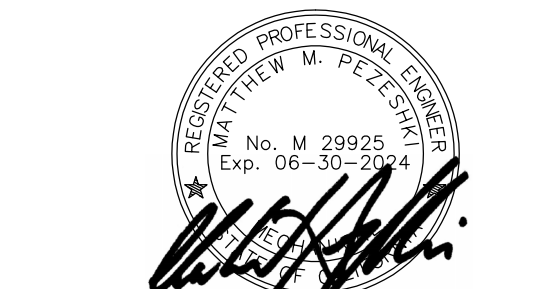
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REVISIONS:

KEY PLAN



REGISTRATION/SIGNATURE:



SHEET TITLE:
**MECHANICAL RENO.
FLOOR PLAN -
RESTROOM BLDG.**

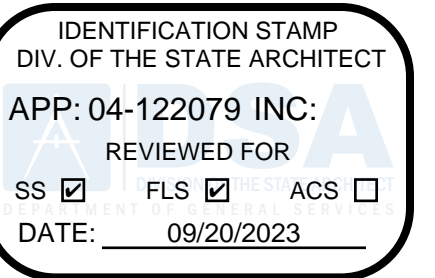
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M2-1.5

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PLAN NOTES

- 1.- WALL MOUNTED HEAT PUMP UNIT, RECONNECT TO EXISTING DUCTWORK. THE NEW BARD UNIT IS LONGER IN LENGTH (BY 7") THAN THE EXISTING UNIT. AFTER INSTALLATION OF THE REPLACEMENT UNIT, PATCH, REPAIR AND PAINT THE AREA OF REMOVAL OF THE OLDER UNIT INCLUDING THE ANCHOR HOLES TO MATCH THE SURROUND WALL SURFACE TO THE SATISFACTION OF THE OWNER. SEE SCHEDULE ON SHEET M0-1.2, DETAIL 6/MO-2.1 AND GENERAL NOTE ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2.- WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT COMPLETE WITH SOUND CURB, RECONNECT TO EXISTING DUCTWORK. THE NEW BARD UNIT IS SHORTER IN LENGTH (BY 2") THAN THE EXISTING UNIT. AFTER INSTALLATION OF THE REPLACEMENT UNIT, PATCH, REPAIR AND PAINT THE AREA OF REMOVAL OF THE OLDER UNIT INCLUDING THE ANCHOR HOLES TO MATCH THE SURROUND WALL SURFACE TO THE SATISFACTION OF THE OWNER. SEE SCHEDULE ON SHEET M0-1.2, DETAIL 5/MO-2.1 AND GENERAL NOTE ON THIS SHEET FOR ADDITIONAL INFORMATION. RECONNECT LINE SIZE GAS (SCH. 40 BLACK STEEL) COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. PAINT ALL EXPOSED GAS PIPING WITH A RUST INHIBITOR.
- 3.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET M0-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.
- 4.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 5.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.
- 6.- FOR RELOCATABLE CLASSROOMS 205, 206 AND 207:
3/4" CD (COPPER TYPE "M") FROM OUTDOOR HP UNIT DN. TO BEL. GRADE AND DISCHARGE INTO DRYWELL. PATCH GRADE TO MATCH EXISTING. SEE DETAIL 3/MO-2.1 FOR ADDITIONAL INFORMATION.
FOR THE REST OF THE RELOCATABLE CLASSROOMS:
3/4" CD (COPPER TYPE "M") FROM OUTDOOR AC/HP UNIT DN. FACE OF WALL AND TERMINATE WITH A 90° ELBOW AT +6" ABV. GRADE.



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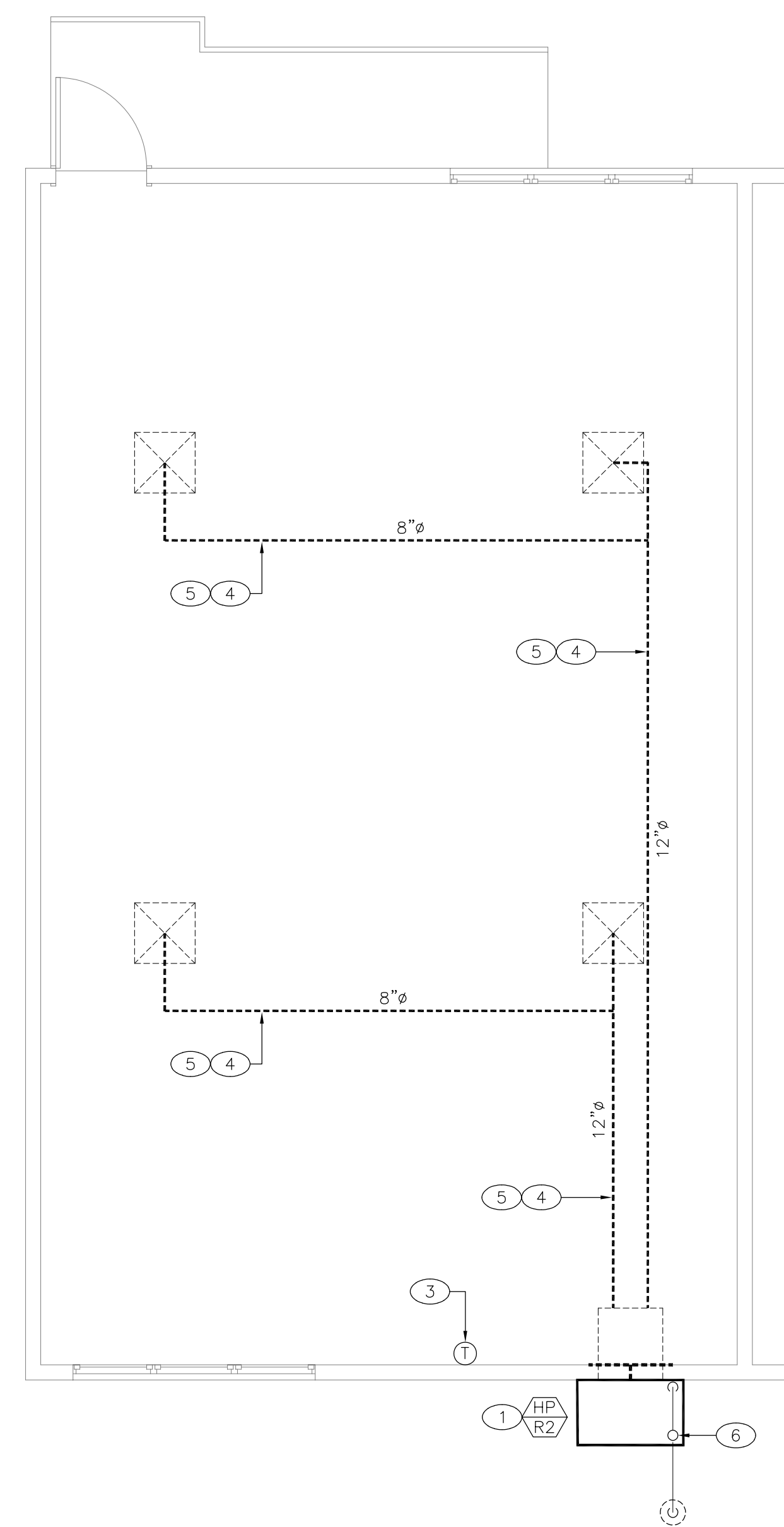
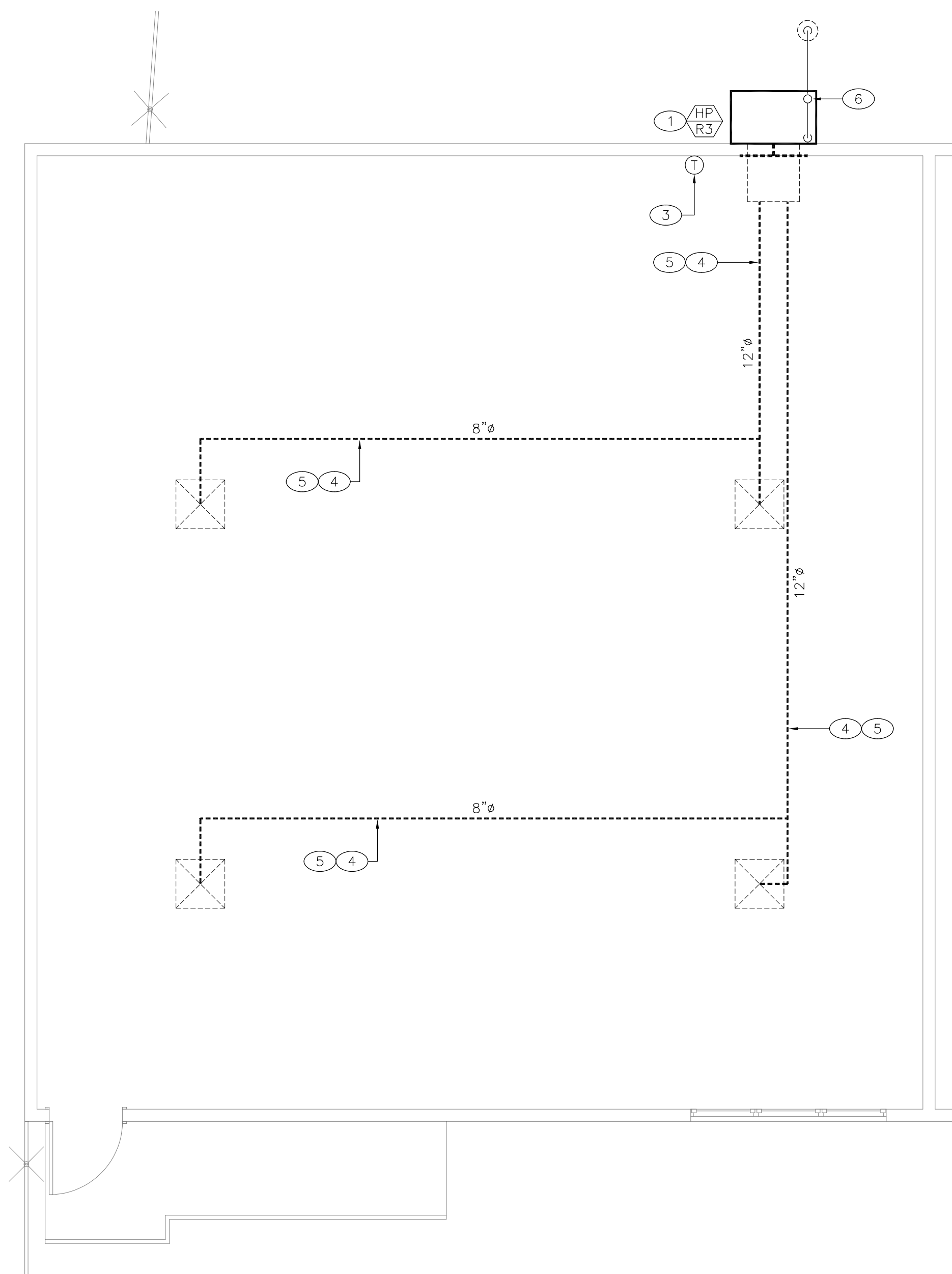
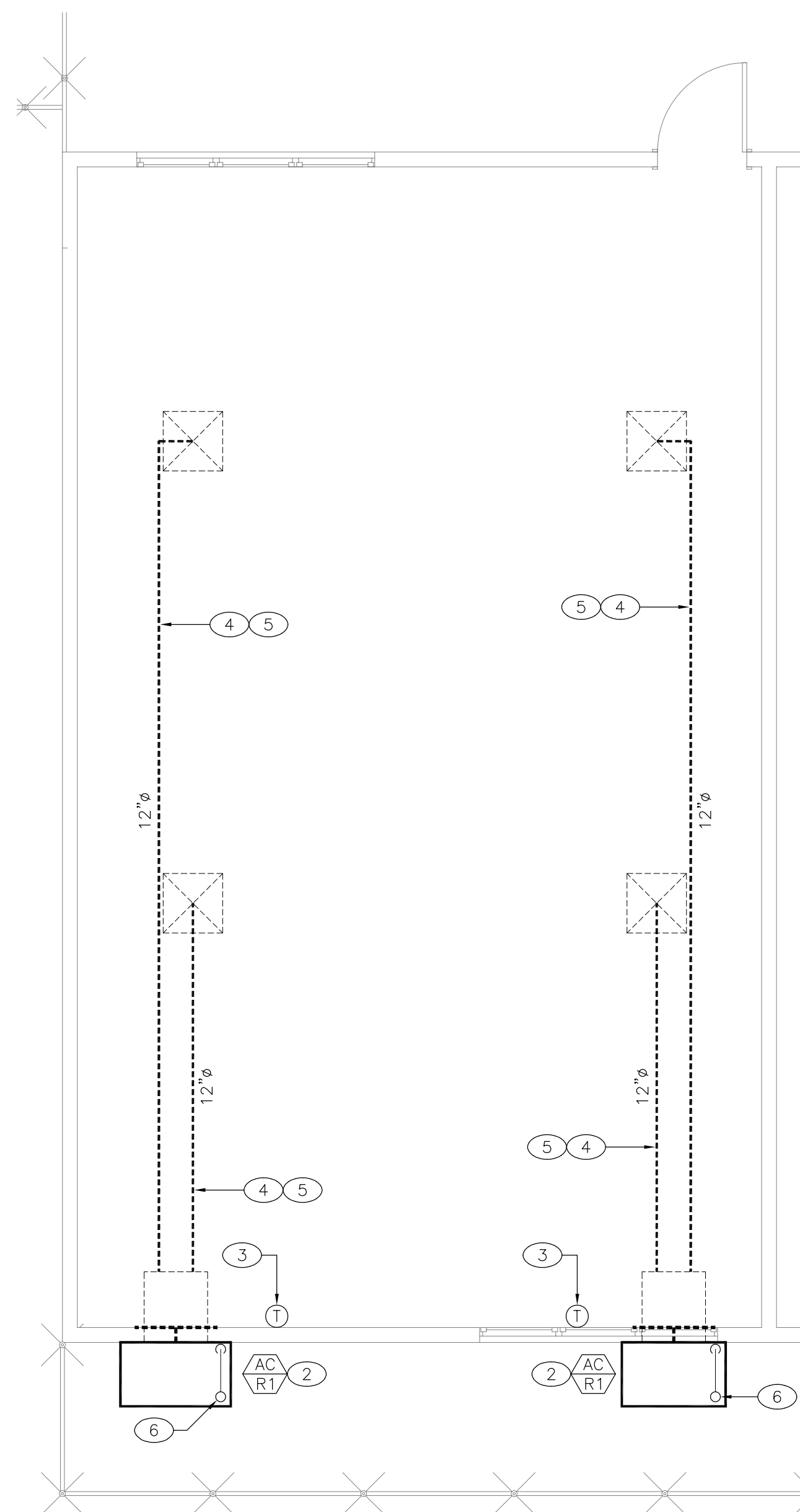
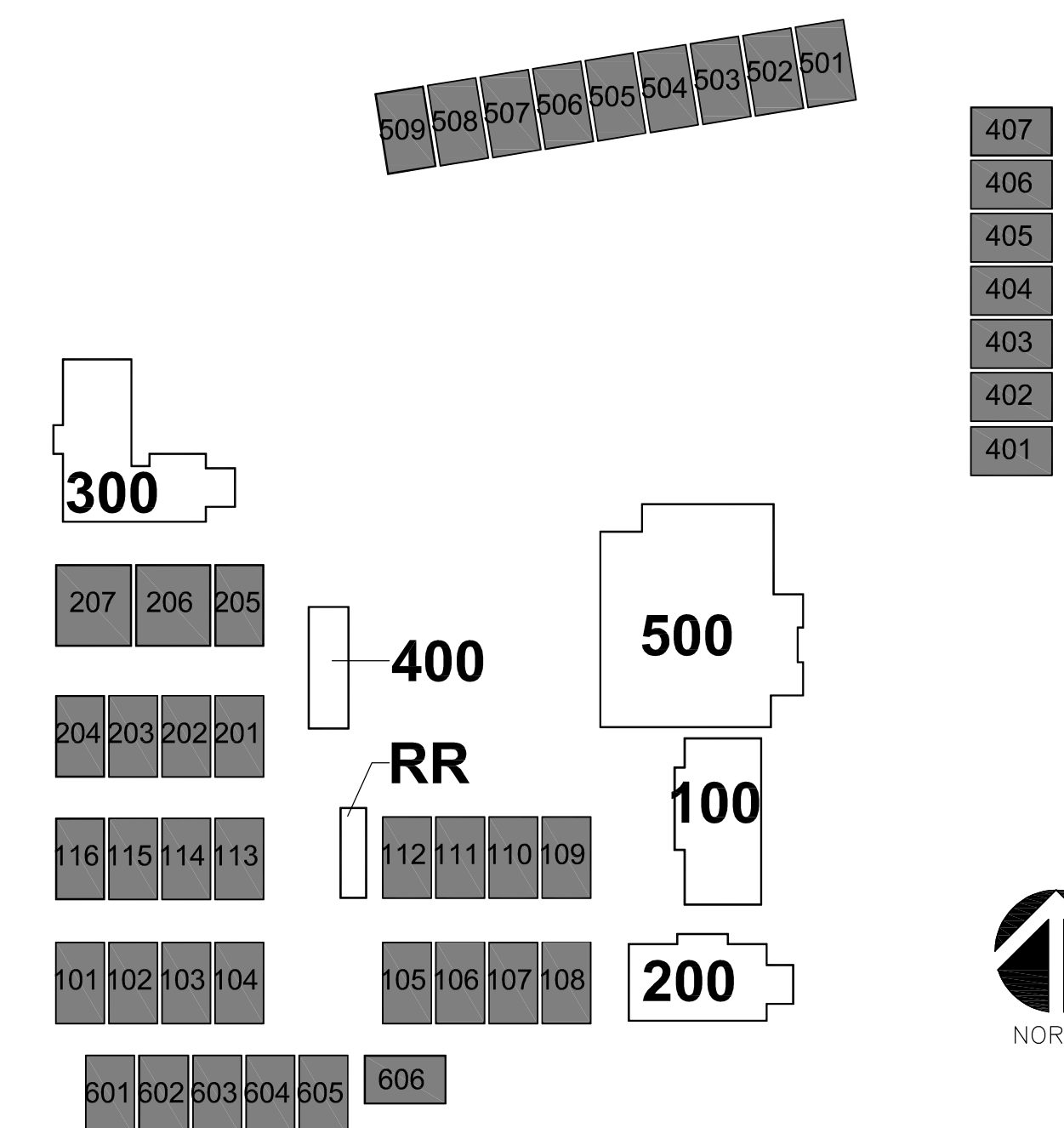
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GENERAL NOTE

- 1.- LAYOUT SHOWN ON THIS SHEET IS TYPICAL FOR ALL RELOCATABLE BUILDINGS. FOR THE ACTUAL UNIT TAG, MODEL AND SIZE FOR EACH RELOCATABLE BUILDING, REFER TO SHEET M1-1.1 AND UNIT SCHEDULE ON SHEET M0-1.2.

KEY PLAN



SPECIAL NOTE

CARBON MONOXIDE DETECTION SYSTEM IS NOT REQUIRED FOR GROUP "E" BUILDINGS THAT ARE CONSTRUCTED BEFORE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE PER DSA IR 9-2.2.2.1.2.

MECHANICAL RENOVATION FLOOR PLAN - RELOCATABLE (DUAL UNIT) **3**
 1/4" = 1'-0"

MECHANICAL RENOVATION FLOOR PLAN - RELOCATABLE (SINGLE UNIT) **2**
 1/4" = 1'-0"

MECHANICAL RENOVATION FLOOR PLAN - RELOCATABLE (SINGLE UNIT) **1**
 1/4" = 1'-0"

REGISTRATION/SIGNATURE:



SHEET TITLE:
MECHANICAL
RENOVATION FLOOR
PLAN - RELOCATABLES

SHEET NUMBER:
M2-1.6

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