

HVAC IMPROVEMENTS FOR INFECTION CONTROL MEXICO VETERANS HOME MEXICO , MISSOURI

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

DEPARTMENT OF
MISSOURI VETERANS
COMMISSION

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: STATE OF MISSOURI - OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT DESIGN
AND CONSTRUCTION: 301 W. HIGH STREET,
JEFFERSON CITY, MO. 65102

PROJECT NUMBER: U2301-03

ASSET NUMBER: 8136802001
SITE NUMBER: 6802

SHEET NUMBER:

G-001

1 OF 28 SHEETS
APRIL 11, 2024



Tracie L. Siebeneck - Engineer
MO# PE-2013019114

**BID
DOCUMENTS**

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MISSOURI VETERANS
COMMISSION

HVAC IMPROVEMENTS FOR
INFECTION CONTROL

MEXICO VETERANS
HOME
1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 04/11/2024

CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
CHECKED BY: TS
DESIGNED BY: TS/AH

SHEET TITLE:
**GENERAL NOTES
AND DRAWING
INDEX**

SHEET NUMBER:

G-002

2 OF 28 SHEETS
4/11/2024

SHEET INDEX

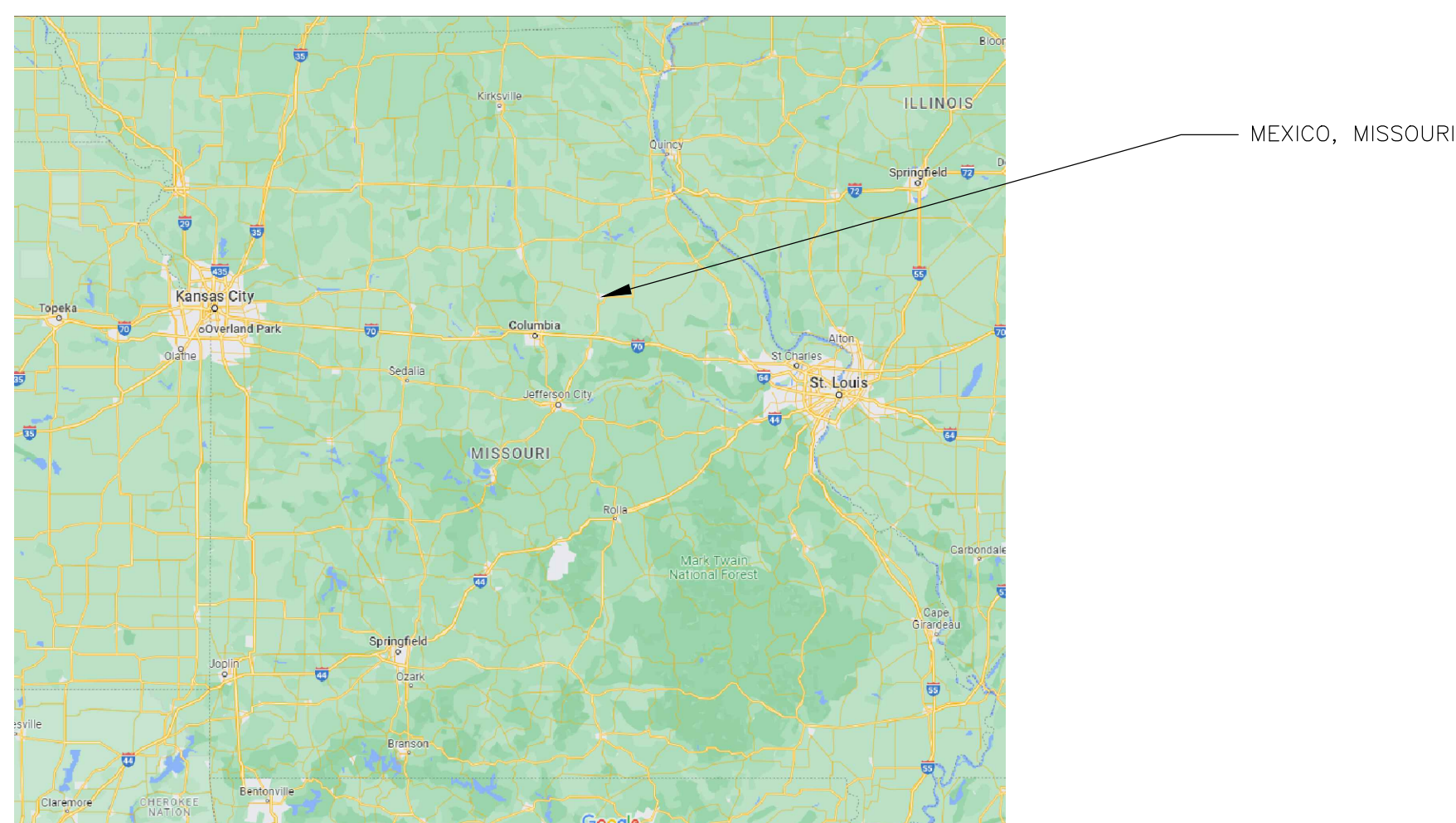
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27	E-501	ELECTRICAL RISER DETAIL
28	E-601	ELECTRICAL PANEL SCHEDULES

OWNER REQUESTED MOVING SERVICE

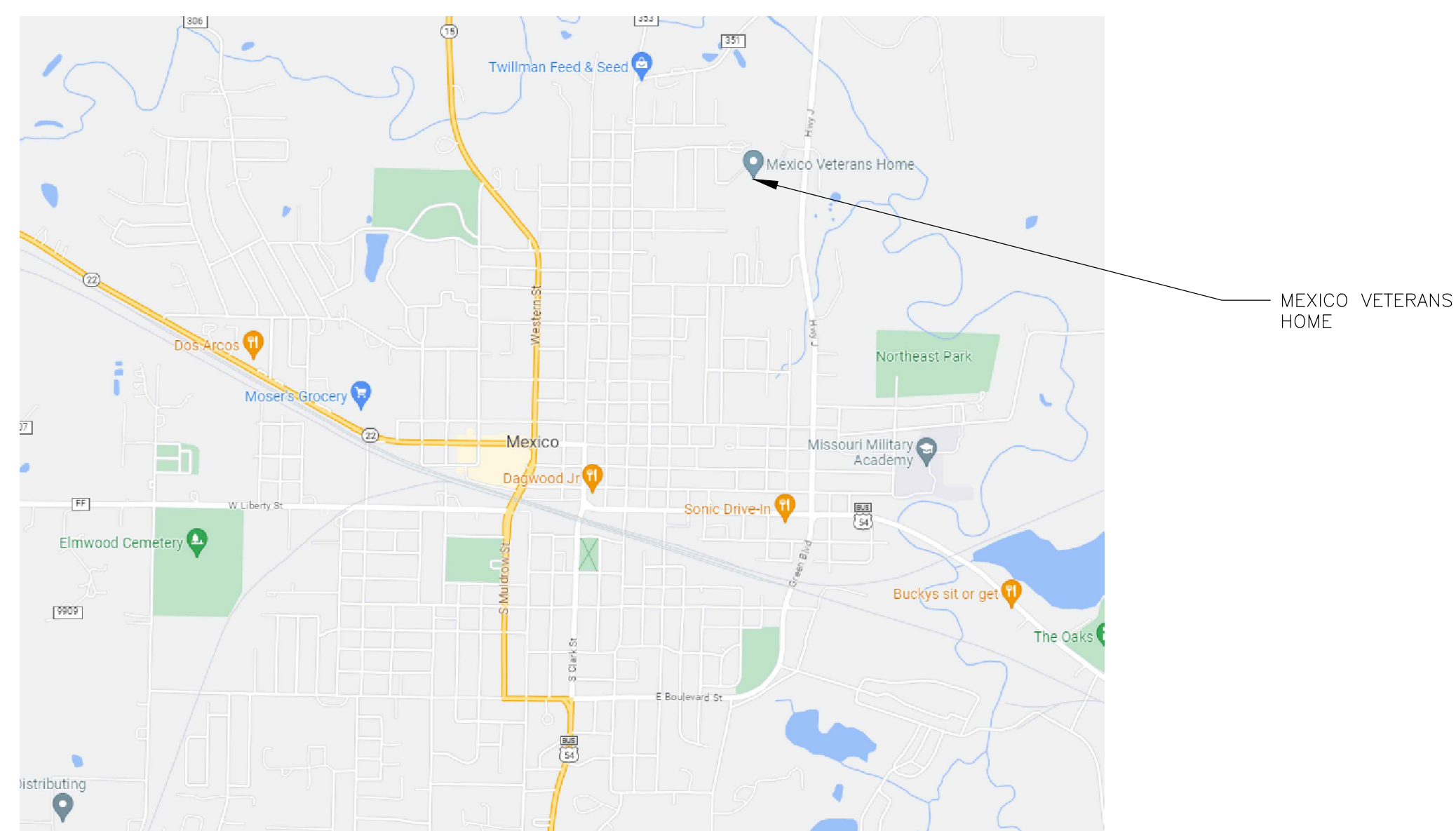
1. CONTRACTOR TO BE RESPONSIBLE FOR MOVING EXISTING FURNITURE OUT OF AREAS OF WORK PRIOR TO THE START OF DEMOLITION, AND MOVING FURNITURE BACK INTO THE SPACES AFTER CONSTRUCTION IS COMPLETE. PROTECT FURNITURE FROM DAMAGE.
2. CONTRACTOR TO PROVIDE TEMPORARY SHIPPING/ STORAGE CONTAINERS ON SITE FOR THE FURNITURE FOR THE DURATION OF DEMOLITION AND CONSTRUCTION, TO BE REMOVED FROM SITE UPON COMPLETION OF THE PROJECT. LOCATION OF TEMPORARY STORAGE CONTAINERS TO BE SPECIFIED BY OWNER.

GENERAL CONSTRUCTION NOTES

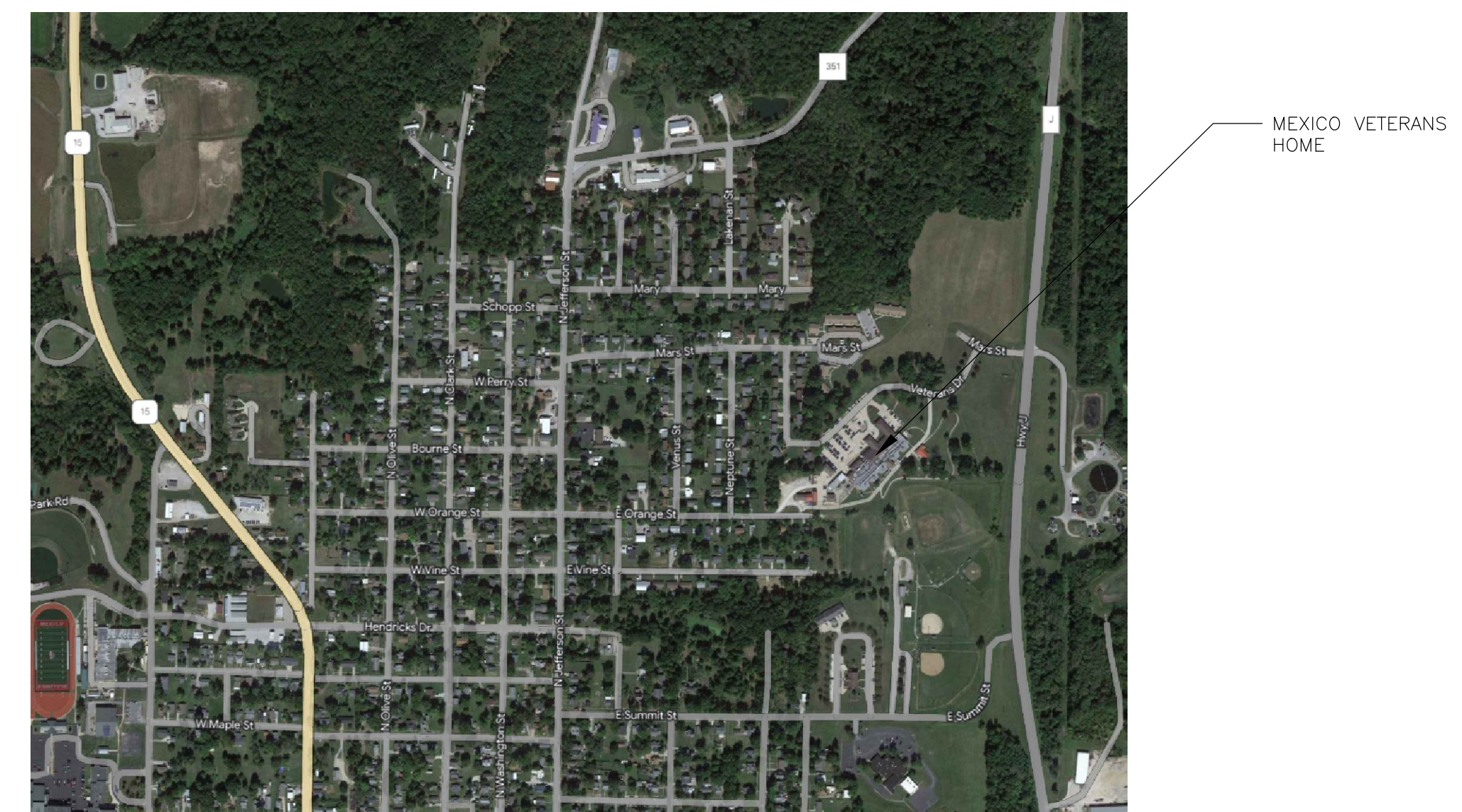
1. THE GENERAL CONTRACTOR (GC) SHALL EXERCISE CAUTION WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE STRUCTURAL ELEMENTS (I.E. FLOOR SLABS, BEAMS, COLUMNS, ETC.) ALL POST-INSTALLED ANCHORS SHALL BE PLACED A MINIMUM OF 1-1/2 INCHES AWAY FROM ANY EXISTING REINFORCING BARS. THE GENERAL CONTRACTOR SHALL DETECT AND VERIFY THE LOCATION OF REINFORCEMENT BEFORE ANCHOR INSTALLATION USING GROUND PENETRATING RADAR (GPR) OR OTHER APPROVED NON-DESTRUCTIVE METHOD.
2. TESTING AND BALANCING CONTRACTOR TO PERFORM BLOWER DOOR TESTING ON EACH BEDROOM. TESTING SHALL BE PERFORMED AFTER ROOM HAS BEEN SEALED PER DRAWINGS AND SPECIFICATIONS, BUT PRIOR TO THE INSTALLATION OF THE CEILING GRID. COVER ALL SUPPLY AND EXHAUST AIR OPENINGS IN THE SPACE PRIOR TO PERFORMING TEST. GENERAL CONTRACTOR SHALL PROVIDE ANY LABOR REQUIRED DURING TESTING TO SEAL ANY PENETRATIONS THAT HAVE BEEN FOUND TO LEAK. TAB CONTRACTOR SHALL PERFORM TESTS AGAIN AT GC'S EXPENSE IF ROOM IS FOUND TO NEED ADDITIONAL SEALING.



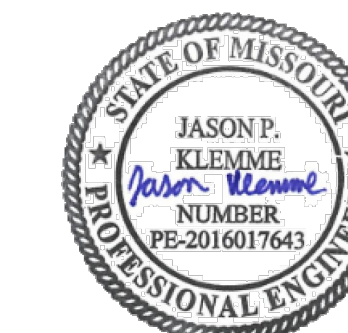
1 STATE OF MISSOURI PROJECT SITE LOCATION MAP



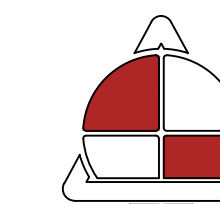
2 VICINITY MAP



3 BUILDING LOCATION MAP



04/11/2024
JASON KLEMMER - ENGINEER
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MEXICO VETERANS
CAD DWG FILE: HOME-S-S151
DRAWN BY: jpk
CHECKED BY: brh
DESIGNED BY: jpk

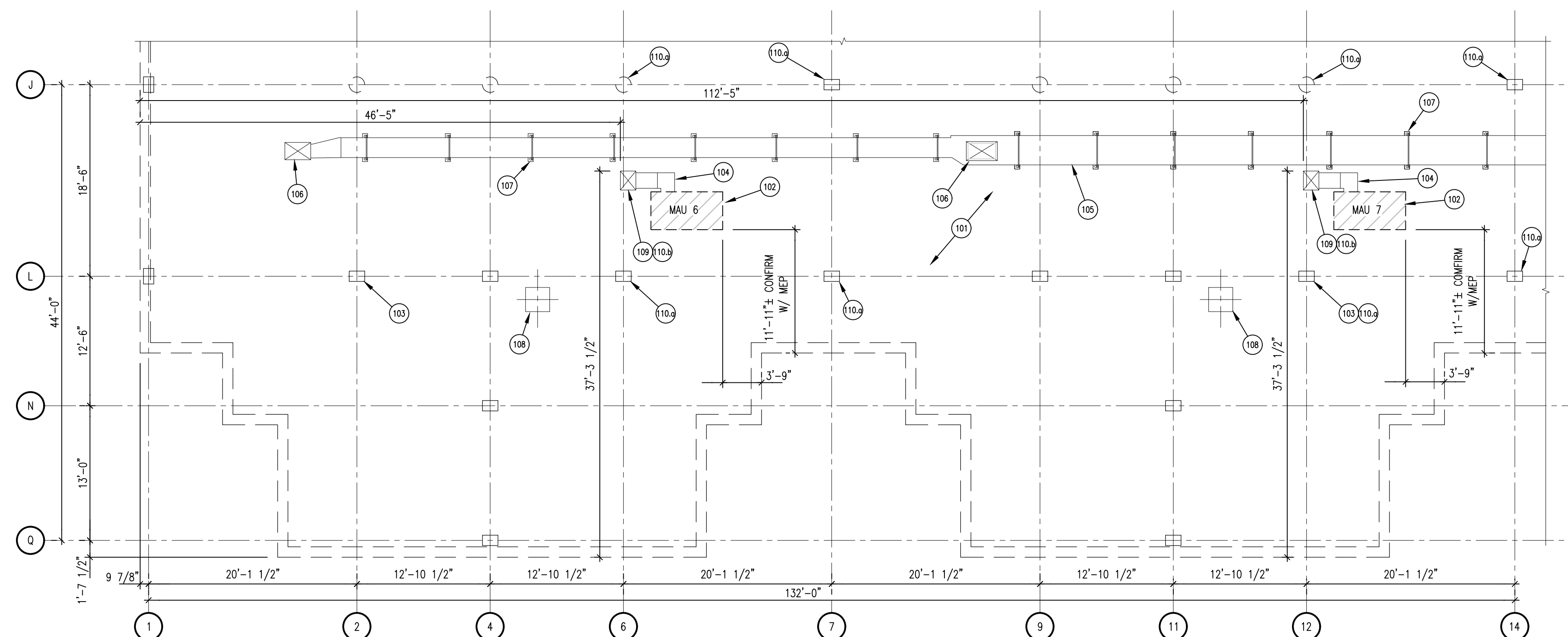
SHEET TITLE:

FRAMING PLAN

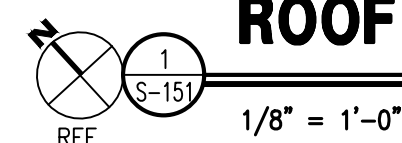
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S-151

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04/11/2024



ROOF PLAN - AREA A



1/8" = 1'-0"

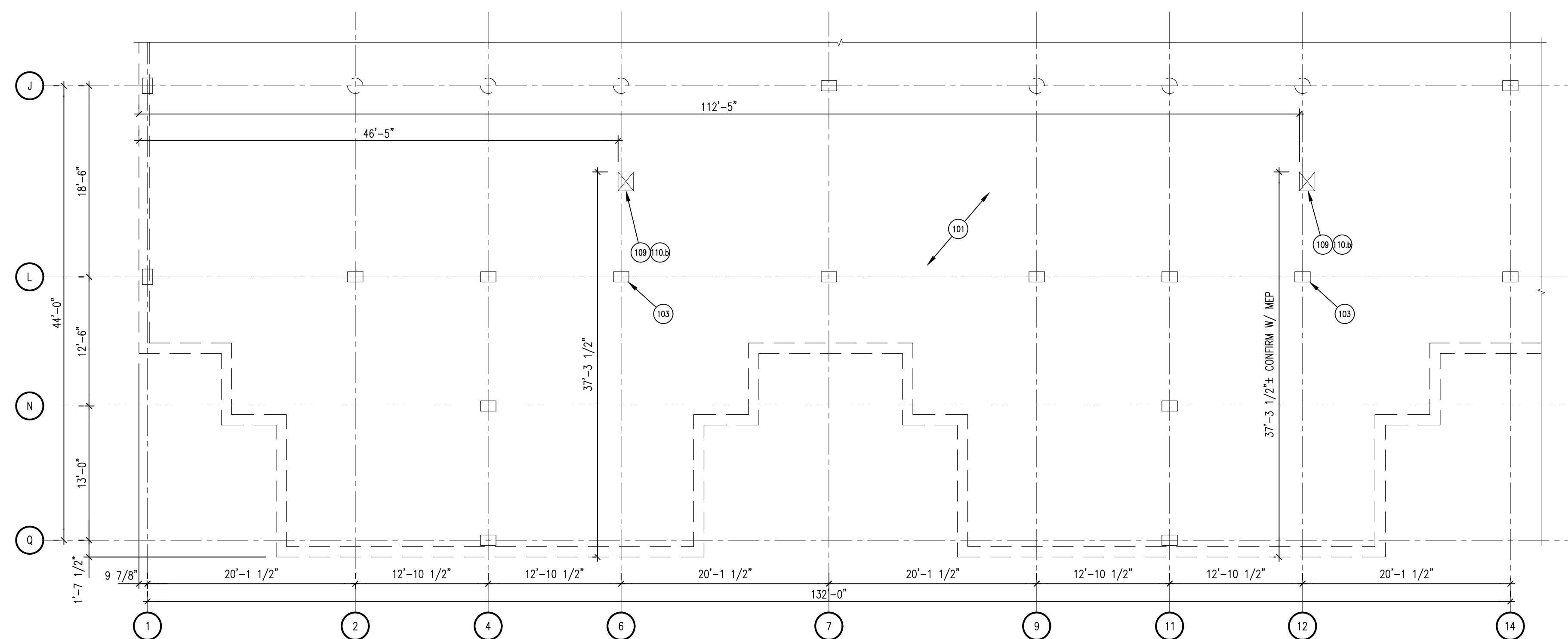
THE GC SHALL EXERCISE CAUTION WHEN INSTALLING ANCHORS IN REINFORCED CONCRETE STRUCTURAL ELEMENTS (I.E., FLOOR SLABS, BEAMS, COLUMNS, ETC.) ALL POST-INSTALLED ANCHORS SHALL BE PLACED A MINIMUM OF 1 1/2" AWAY FROM ANY EXISTING REINFORCING BARS. THE GC SHALL DETECT AND VERIFY THE LOCATIONS OF REINFORCEMENT BEFORE ANCHOR INSTALLATION USING GROUND PENETRATING RADAR (GPR) OR OTHER APPROVED NON-DESTRUCTIVE METHODS.

GENERAL NOTES

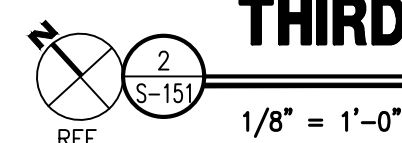
- THESE NOTES AND KEYNOTES ON THIS SHEET APPLY TO ALL STRUCTURAL ELEMENTS.
- STRUCTURAL DESIGN NOTES AND CRITERIA
 - SEE BUILDING PLANS DATED 11/15/82 FOR DESIGN ROOF LIVE AND SNOW LOADING AND FLOOR LIVE AND PARTITION LOADS
 - ROOF DEAD LOAD = 10 PSF + ROOF SLAB SELF-WEIGHT
 - FLOOR DEAD LOAD = 15 PSF + FLOOR SLAB SELF-WEIGHT
- TAPERED ROOF INSULATION SHOULD BE INSTALLED AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AND PREVENT WATER PONDING AT NEW RTU LOCATIONS.
- ROOF MAUS AND ROOF/FLOOR SLAB OPENINGS ARE SHOWN FOR REFERENCE. CONTRACTOR SHALL CONFIRM LOCATIONS WITH MEP PLANS, REPORT DISCREPANCIES TO ENGINEER BEFORE EXECUTING WORK.
- MECH UNIT SIZE, WEIGHT, AND LOCATION SHALL BE VERIFIED BY MECHANICAL PLANS AND GENERAL CONTRACTOR.
- CONTRACTOR SHALL SUBMIT THE FOLLOWING TO ENGINEER:
 - UTILIZING GPR OR OTHER APPROVED METHODS, A LOG OF THE REINFORCING QUANTITY AND DEPTH AT THE COLUMN LOCATIONS AS DEFINED ON THE PLANS. CLEARLY LABEL LOCATION, NUMBER OF REINFORCING BARS, AND DEPTH AT EACH REQUESTED LOCATION. (8 LOCATIONS TOTAL AT ROOF)
 - UTILIZING GPR OR OTHER APPROVED METHODS, A LOG OF THE SLAB REINFORCING BARS TO BE INTERRUPTED IN EACH ORTHOGONALLY HORIZONTAL DIRECTION AT EACH OF THE PROPOSED SLAB OPENINGS. (2 LOCATIONS AT EACH OF ROOF 3RD FLOOR AND 2ND FLOOR).
- SELECT EXISTING ROOF/FLOOR OPENINGS/MECHANICAL UNITS/DUCTS/ETC. ARE SHOWN HEREIN FOR REFERENCE. CONTRACTOR SHALL VERIFY SIZE/LOCATION OF EXISTING ITEMS, AS REQUIRED, TO COMPLETE WORK.
- OWNER IS RESPONSIBLE FOR ANY ADDITIONAL DESIGN CALCULATIONS REQUIRED DUE TO UNFORESEEN DIFFERENCES IN THE NUMBER OR DEPTH OF REINFORCING BARS. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL DESIGN CALCULATION REQUIRED DUE TO EQUIPMENT SUBSTITUTION THAT IS LARGER OR WEIGHS MORE THAN BASIS OF DESIGN EQUIPMENT.

KEYED NOTES

- EXISTING ROOF/FLOOR, 7" FLAT CONCRETE SLAB.
- NEW MAU's 6 & 7 = 1,614 LB. OUTSIDE CURB DIMENSIONS = 44"x82". SIZE, WEIGHT AND LOCATION SHALL BE VERIFIED BY MECHANICAL PLANS AND GENERAL CONTRACTOR, NOTIFY ENGINEER OF ANY DISCREPANCIES.
- EXISTING CONCRETE COLUMN, TYPICAL. VERIFY-IN-FIELD COLUMN SIZE AND LOCATION. DO NOT PLACE PENETRATION WITHIN 5' OF COL TYPE.
- PROPOSED DUCT, SEE MEP FOR SIZE AND LOCATION.
- EXISTING DUCT.
- EXISTING ROOF SLAB PENETRATION.
- EXISTING DUCT SUPPORT FRAME TYPICAL.
- EXISTING EXHAUST FAN.
- PROPOSED ROOF/FLOOR SLAB PENETRATION, SEE MEP FOR SIZE AND LOCATION, MAX ALLOWABLE PENETRATION IS 22"x18", NOTIFY ENGINEER OF ANY DISCREPANCIES.
- USING NON-DESTRUCTIVE METHODS, CONTRACTOR SHALL:
 - COLUMNS: UTILIZING GPR OR OTHER APPROVED METHODS DETERMINE QUANTITY AND DEPTH WITHIN SLAB OF REINFORCING BARS IN EACH DIRECTION TO A DISTANCE 5'-0" FROM CENTER OF COLUMN. REPORT QUANTITY AND DEPTH TO ENGINEER. ADDITIONAL CALCULATIONS MAY BE REQUIRED IF DEPTH OF REINFORCING DOES NOT CONCLUDE WITH PLANS.
 - PROPOSED SLAB OPENINGS: UTILIZING GPR OR OTHER APPROVED METHODS DETERMINE QUANTITY AND DEPTH OF SLAB REINFORCING BARS IN EACH DIRECTION TO BE INTERRUPTED BY OPENINGS. REPORT QUANTITY TO ENGINEER. CONTRACTOR SHALL NOT PLACE PROPOSED OPENINGS IN SLAB(S) UNTIL NUMBER OF REINFORCING BARS, TO BE INTERRUPTED BY OPENINGS, ARE DETERMINED, REPORTED TO, AND APPROVED BY ENGINEER. ADDITIONAL CALCULATIONS MAY BE REQUIRED.

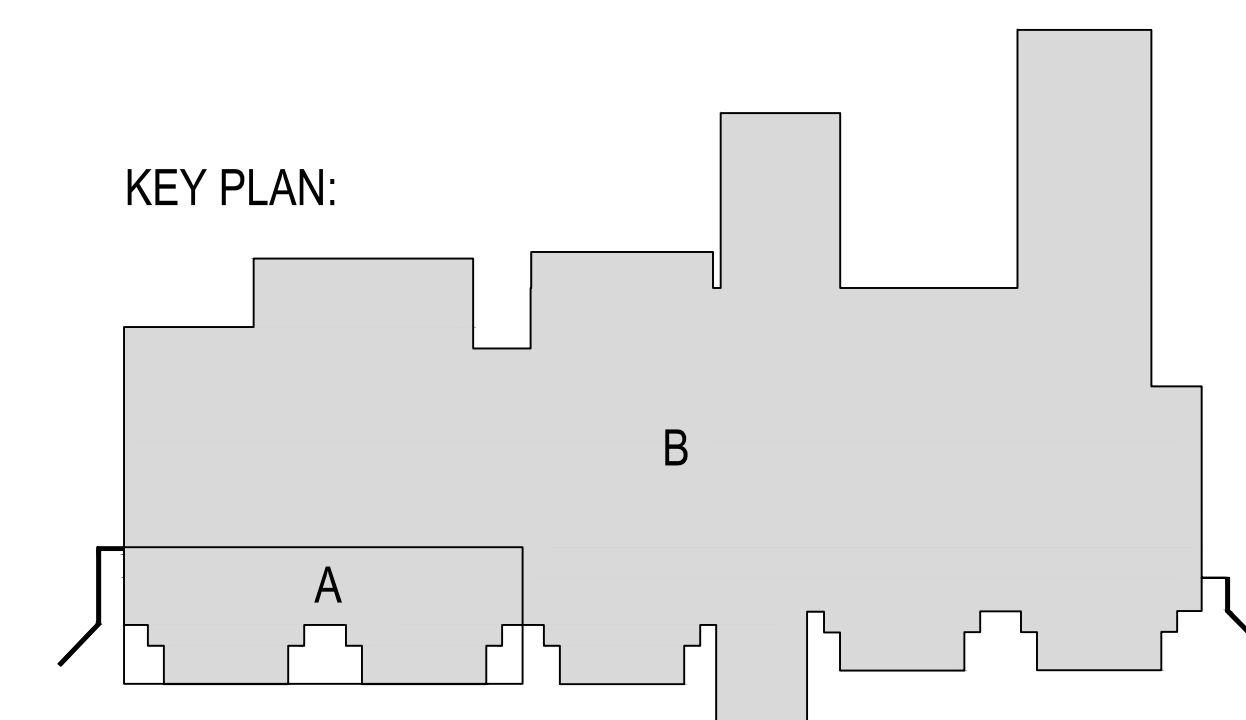


THIRD/SECOND LEVEL PLAN - AREA A



1/8" = 1'-0"

KEY PLAN:





Brad M. Schaefer - Architect
MO# A-2009027294

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DRAWN BY: CL
CHECKED BY: BS
DESIGNED BY: CL

SHEET TITLE:
**FLOOR PLAN
DEMOLITION -
2ND & 3RD FLOORS**

SHEET NUMBER:

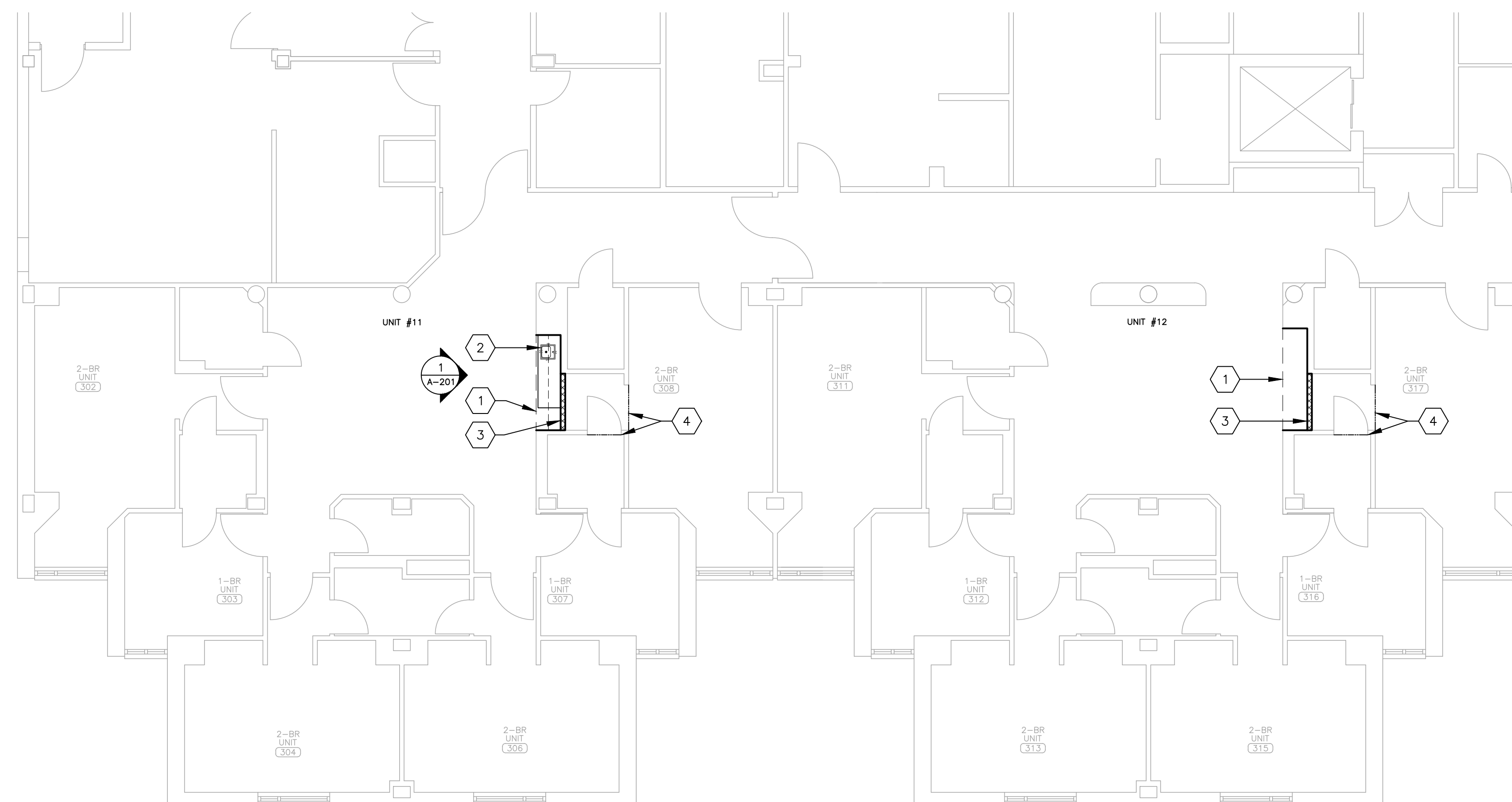
A-102

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SYMBOL LEGEND	
	AREA OF WORK BOUNDARY
	WALLS TO BE REMOVED
	NOTATION OF SOFFIT LIMIT
	TEMPORARY CONSTRUCTION BARRIER
	DEMOLITION KEYNOTE

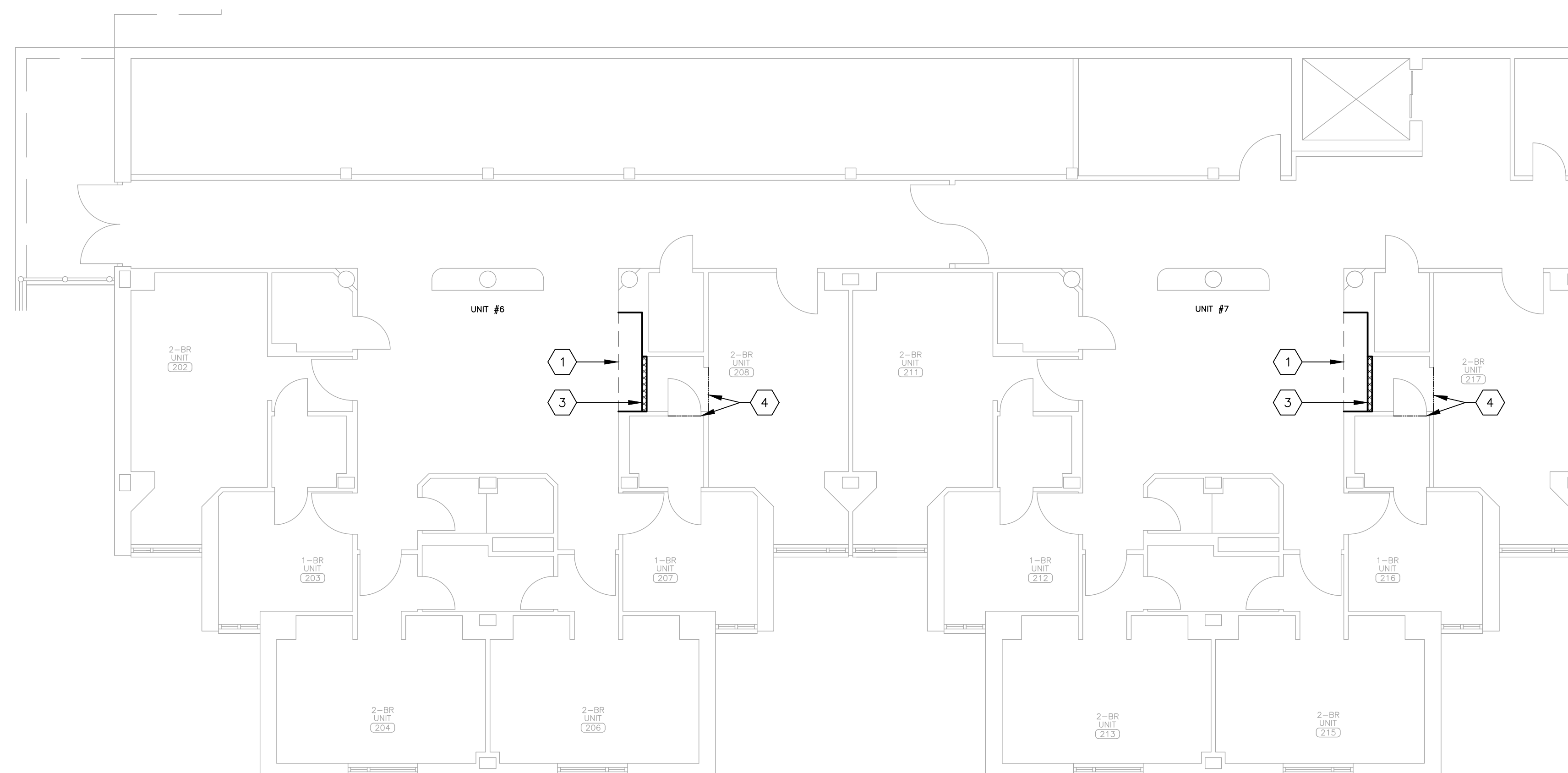
GENERAL NOTES:	
1.	CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.
2.	CONTRACTOR SHALL USE CARE DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ADJACENT FINISHES AND EXISTING CONDITIONS NOT INCLUDED IN SCOPE OF WORK.
3.	CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM SITE ON A DAILY BASIS. COORDINATE DUMPSTER/ DUMP TRUCK LOCATION AND ACCESS WITH THE OWNER.
4.	CONTRACTOR IS RESPONSIBLE FOR WATER TIGHTENING THE PROPERTY AT THE END OF EACH DAY REGARDLESS OF THE WEATHER FORECAST.
5.	CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AT ANY BUILDING OPENINGS UNDER CONSTRUCTION AND SHALL ENSURE THE LOCKED SECURE CLOSURE AT THE END OF EACH WORKING DAY.
6.	ALL MATERIALS AND EQUIPMENT NOT REQUIRED TO BE REMOVED FOR THE EXECUTION OF THE PROJECT SHALL BE LEFT IN PLACE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
7.	ALL REMOVED AND SALVAGED MATERIALS IN LIKE-NEW CONDITION SHALL BE OFFERED TO OWNER FOR REUSE.

DEMOLITION KEYNOTES:	
1	EXISTING ALCOVE WALLS AND SOFFIT TO BE MODIFIED. REFER TO A-501 AND A-201 FOR DETAILS.
2	REMOVE EXISTING CABINETS AND SINK ASSEMBLY. OFFER TO OWNER FOR REUSE.
3	EXISTING WALL TO BE REMOVED TO EXTENTS SHOWN.
4	TEMPORARY CONSTRUCTION BARRIER TO BE INSTALLED DURING DEMOLITION AND CONSTRUCTION FOR THE SAFETY OF RESIDENTS. COORDINATE WITH OWNER FOR OPTIMAL LOCATION OF BARRIER. CONTRACTOR TO SUBMIT A SAFETY BARRIER PLAN.



2 FLOOR PLAN DEMOLITION - 3RD FLOOR
SCALE: 1/8" = 1'-0"

4 KEYPLAN - 3RD FLOOR
SCALE: NTS



1 FLOOR PLAN DEMOLITION - 2ND FLOOR
SCALE: 1/8" = 1'-0"

3 KEYPLAN - 2ND FLOOR
SCALE: NTS



Brad M. Schaefer - Architect
MO# A-2009027294

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CAD DWG FILE: A-U2301-03
DRAWN BY: CL
CHECKED BY: BS
DESIGNED BY: CL

SHEET TITLE:
**RCP
RENOVATION -
1ST FLOOR**

SHEET NUMBER:

A-103

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4/11/2024

GENERAL NOTES:

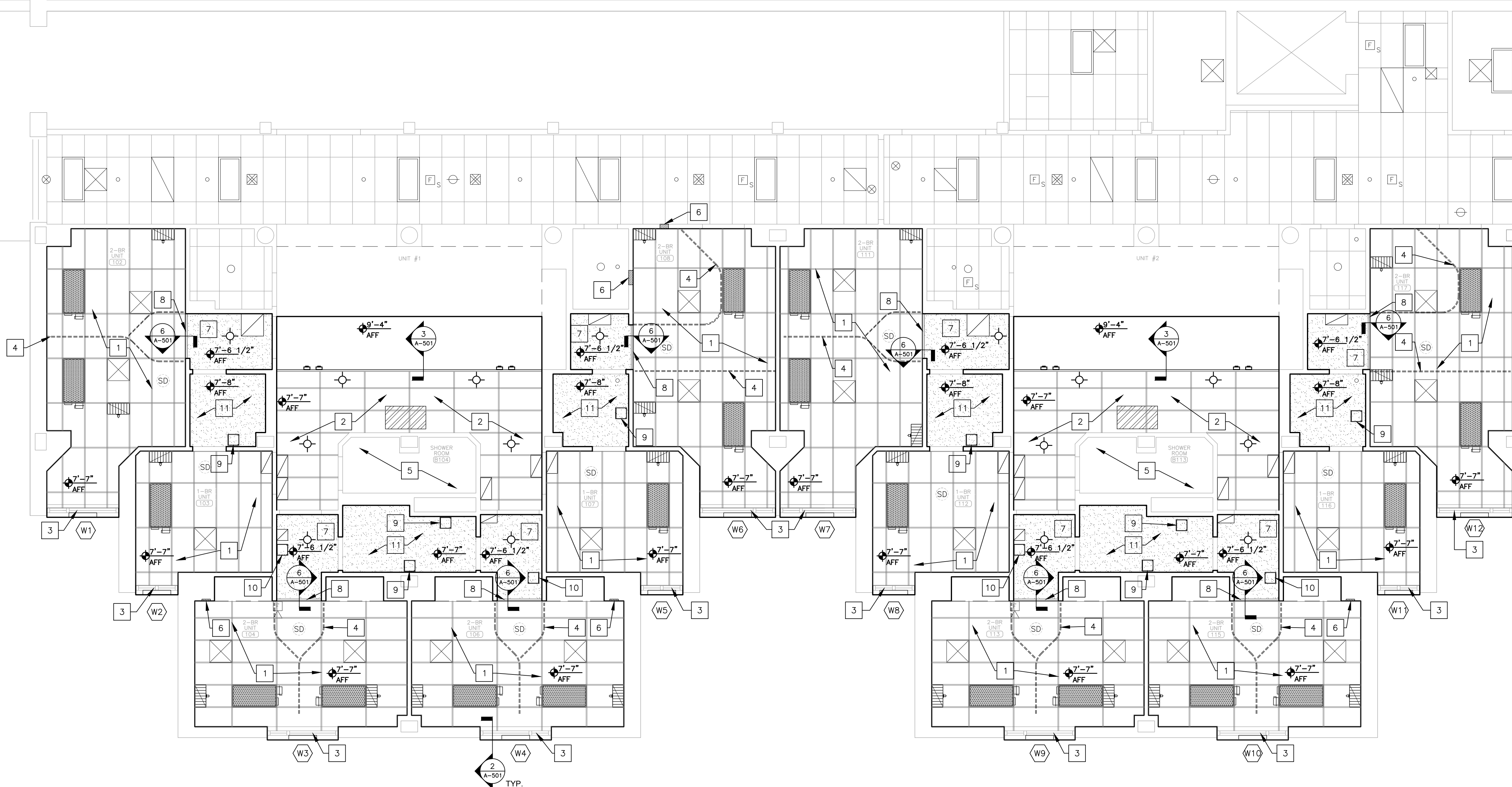
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.
- CONTRACTOR SHALL USE CARE DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ADJACENT FINISHES AND EXISTING CONDITIONS NOT INCLUDED IN SCOPE OF WORK.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM SITE ON A DAILY BASIS. COORDINATE DUMPSTER/ DUMP TRUCK LOCATION AND ACCESS WITH THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR WATER TIGHTENING THE PROPERTY AT THE END OF EACH DAY REGARDLESS OF THE WEATHER FORECAST.
- CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AT ANY BUILDING OPENINGS UNDER CONSTRUCTION AND SHALL ENSURE THE LOCKED SECURE CLOSURE AT THE END OF EACH WORKING DAY.
- ALL MATERIALS AND EQUIPMENT NOT REQUIRED TO BE REMOVED FOR THE EXECUTION OF THE PROJECT SHALL BE LEFT IN PLACE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- ALL REMOVED AND SALVAGED MATERIALS IN LIKE-NEW CONDITION SHALL BE OFFERED TO OWNER FOR REUSE.

RENOVATION KEYNOTES:

- INSTALL NEW SUSPENSION SYSTEM CEILING GRID WITH 2'x4' LAY-IN ACOUSTIC CEILING TILE TO EXTENTS SHOWN BY GRID. REFER TO A-501 FOR DETAILS.
- INSTALL NEW SOFFIT WITH 2'x4' LAY-IN ACOUSTIC CEILING TILE AND SUSPENSION GRID TO EXTENTS SHOWN BY GRID. SEE A-501 FOR DETAILS.
- WINDOW TO BE MODIFIED. REFER TO A-402 FOR MODIFICATION DETAILS. INSTALL NEW WINDOW TREATMENT AS SPECIFIED.
- INSTALL NEW CURTAIN TRACK AS SPECIFIED TO LOCATION SHOWN.
- PATCH, SEAL, AND PAINT APPROPRIATE MATERIALS AS NEEDED FOR WORK COORDINATED ON MECHANICAL DRAWINGS USING LIKE EXISTING FINISHES APPROPRIATE FOR MOISTURE EXPOSURE IN SHOWER ROOM.
- ALL WALL PENETRATIONS ABOVE OR ADJACENT TO DROP CEILING NEED TO BE AIRTIGHT TO ACCOMMODATE HVAC SYSTEM REQUIREMENTS. REFER TO MEP DRAWINGS.
- INSTALL NEW 1/2" GYPSUM BOARD CEILING TO EXTENTS SHOWN.
- INSTALL NEW STEEL STUDS SOFFIT WITH 1/2" GYPSUM BOARD. SEE A-501 FOR DETAILS.
- GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL AIRTIGHT/WATERTIGHT ACCESS DOOR FOR ACCESS TO EXISTING BALANCE DAMPERS. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE FINAL ACCESS DOOR LOCATION TO ALLOW FOR OPTIMAL ACCESS TO DAMPER. REFER TO ACCESS PANEL SCHEDULE PART AD-1 ON SHEET A-402.
- GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL AIRTIGHT/WATERTIGHT ACCESS DOOR IN THE SAME LOCATION AND THE SAME SIZE AS THE CORRESPONDING REMOVED EXISTING ACCESS PANELS. REFER TO ACCESS PANEL SCHEDULE PART AD-1 ON SHEET A-402.
- NEW 1/2" GYPSUM BOARD CEILING TO BE INSTALLED AT SAME HEIGHT AS PREVIOUSLY REMOVED CEILING TILES WITHIN THE ROOM. TO ACCOMMODATE THE SAME LOCATION OF FIRE SPRINKLER HEAD.

SYMBOL LEGEND

	WINDOW SCHEDULE REFERENCE
	RENOVATION KEYNOTE
	SMOKE DETECTOR
	CAN LIGHT FIXTURE
	EXISTING NURSE CALL LIGHT
	ACCESS PANEL
	DIFFUSER
	GRILLE
	GRILLE W/ CONTROL DAMPER
	FAN FILTER UNIT
	FAN FILTER UNIT - ABOVE CEILING GRID
	PENETRATION TO BE SEALED
	GYPSUM BOARD CEILING - NEW
	CURTAIN TRACK - NEW
	CEILING GRID - NEW
	AREA OF WORK BOUNDARY



1 REFLECTED CEILING PLAN RENOVATION - 1ST FLOOR
SCALE: 3/16" = 1'-0"

2 KEYPLAN - 1ST FLOOR
SCALE: NTS



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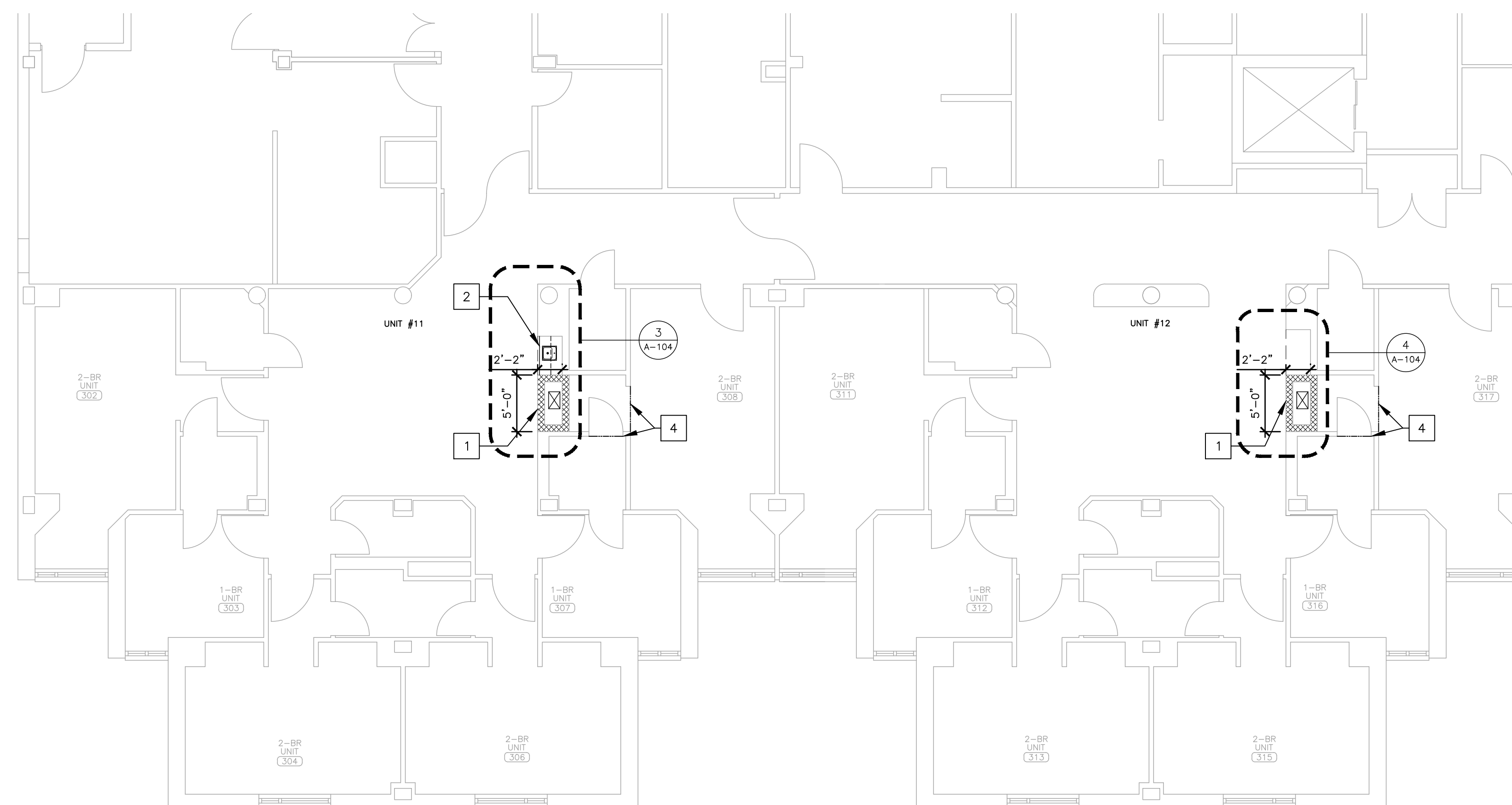
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SHEET TITLE:
**FLOOR PLAN
RENOVATION -
2ND & 3RD FLOORS**

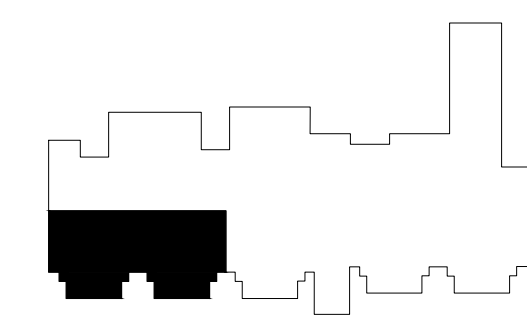
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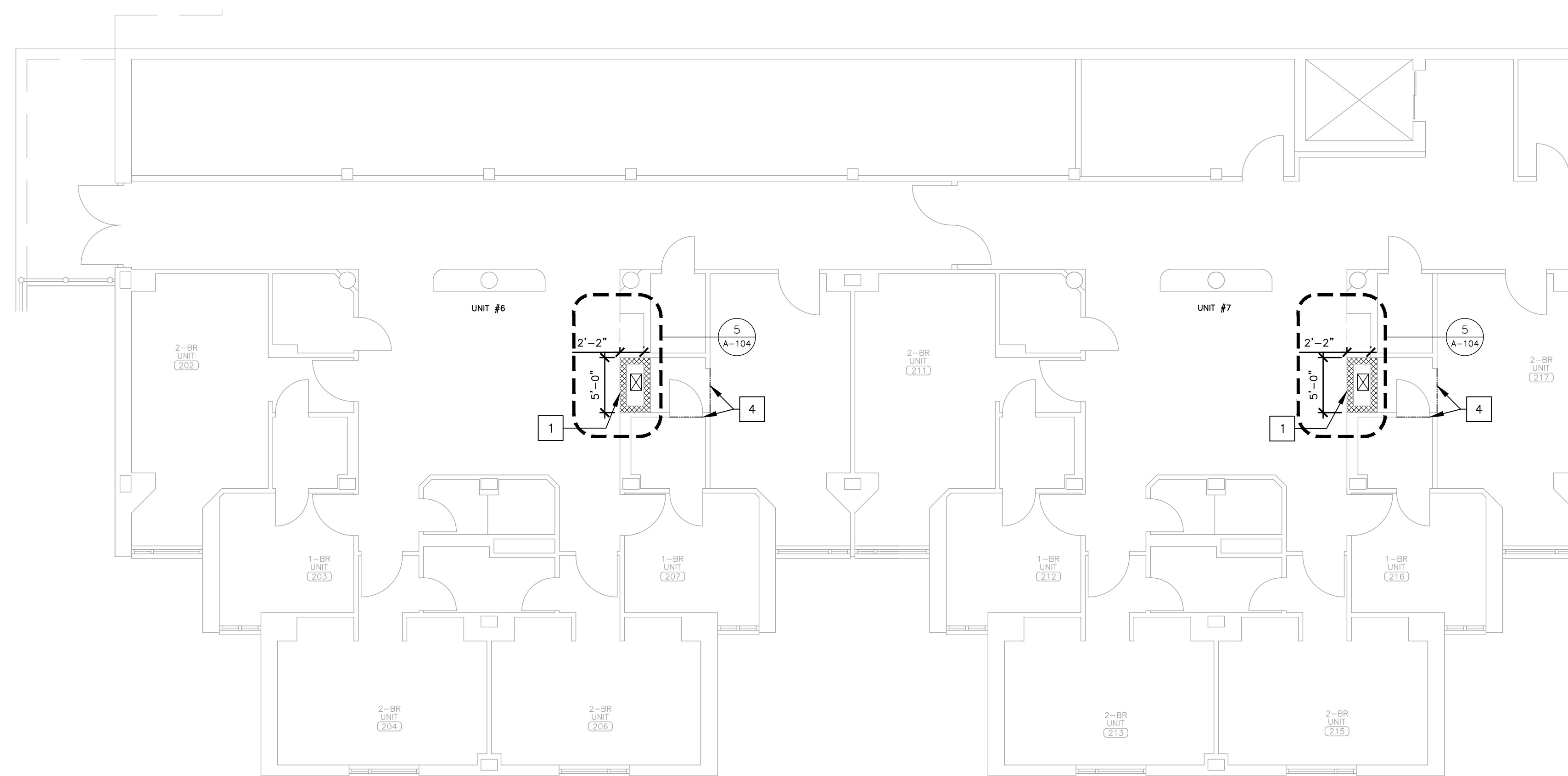
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4/11/2024



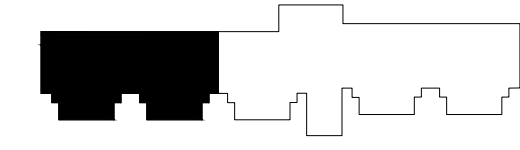
2 FLOOR PLAN RENOVATION - 3RD FLOOR
SCALE: 1/8" = 1'-0"



4 KEYPLAN - 3RD FLOOR
SCALE: NTS



1 FLOOR PLAN RENOVATION - 2ND FLOOR
SCALE: 1/8" = 1'-0"



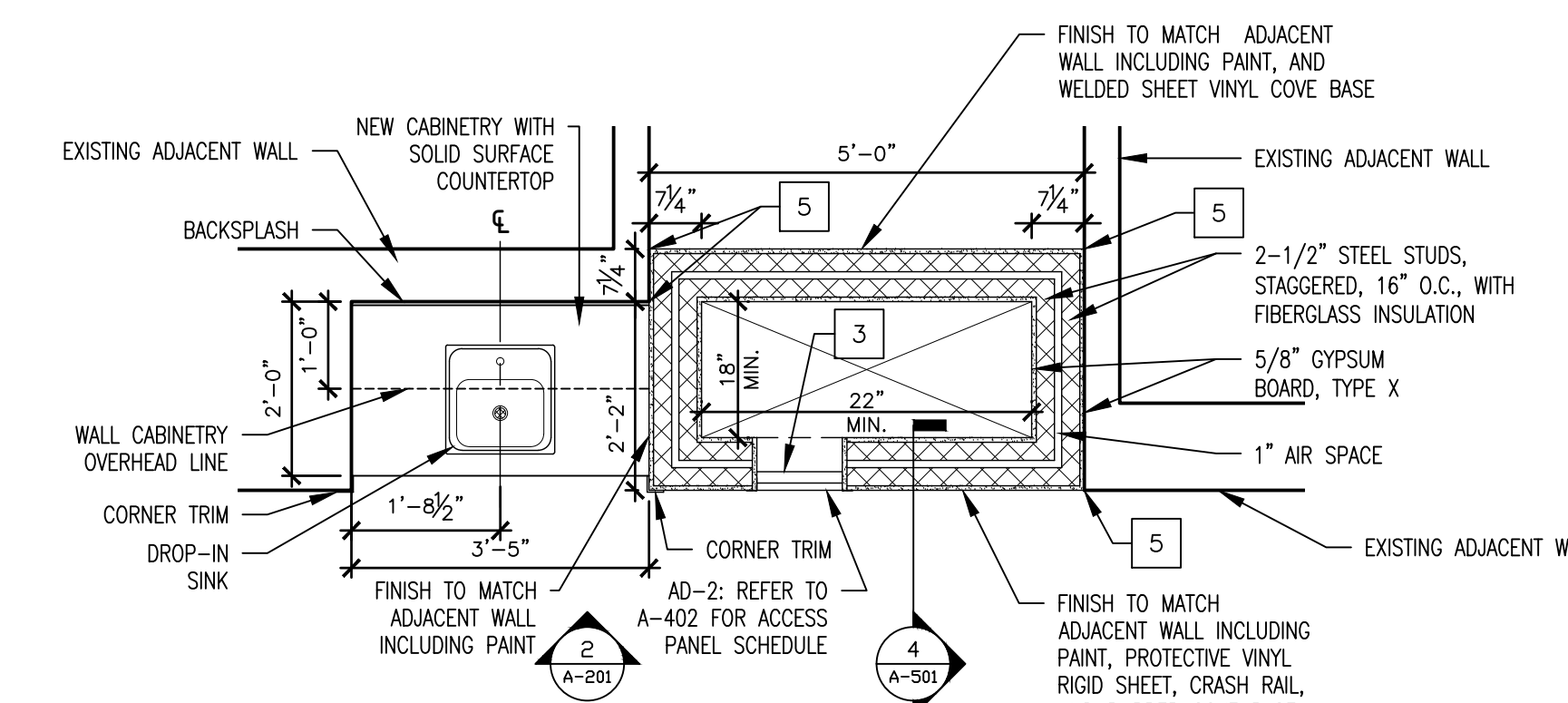
3 KEYPLAN - 2ND FLOOR
SCALE: NTS

- RENOVATION KEYNOTES:**
- 1 CONSTRUCT 1-HOUR FIRE-RATED WALL, UL U493, FOR CHASE REFER TO A-501 FOR DETAILS. MATCH EXISTING FINISH OF NEW WALLS TO EXISTING ADJACENT WALLS INCLUDING INTERIOR PAINT, WALL BASE, AND PROTECTIVE COVERINGS. - INTERIOR OF CHASE NEEDS A MINIMUM AREA OF 18"x22" CLEAR SPACE IN COORDINATION WITH MEP REQUIREMENTS.
 - 2 INSTALL NEW CABINETRY AND SINK ASSEMBLY TO LOCATION SHOWN. REFER TO A-201 FOR DETAILS.
 - 3 GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE RATED ACCESS DOOR FOR ACCESS TO BALANCE DAMPERS. BOTTOM OF ACCESS DOOR TO BE 1" ABOVE NEW WALL BASE. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE FINAL ACCESS DOOR LOCATION TO ALLOW FOR OPTIMAL ACCESS TO DAMPER.
 - 4 TEMPORARY CONSTRUCTION BARRIER TO BE INSTALLED DURING DEMOLITION AND CONSTRUCTION FOR THE SAFETY OF RESIDENTS. COORDINATE WITH OWNER FOR OPTIMAL LOCATION OF BARRIER. CONTRACTOR TO SUBMIT A SAFETY BARRIER PLAN.
 - 5 WALL-TO-WALL JOINT FIRESTOPPING TO BE APPLIED AS RECOMMENDED BY MANUFACTURER. REFER TO SPECIFICATIONS SECTION 078443.

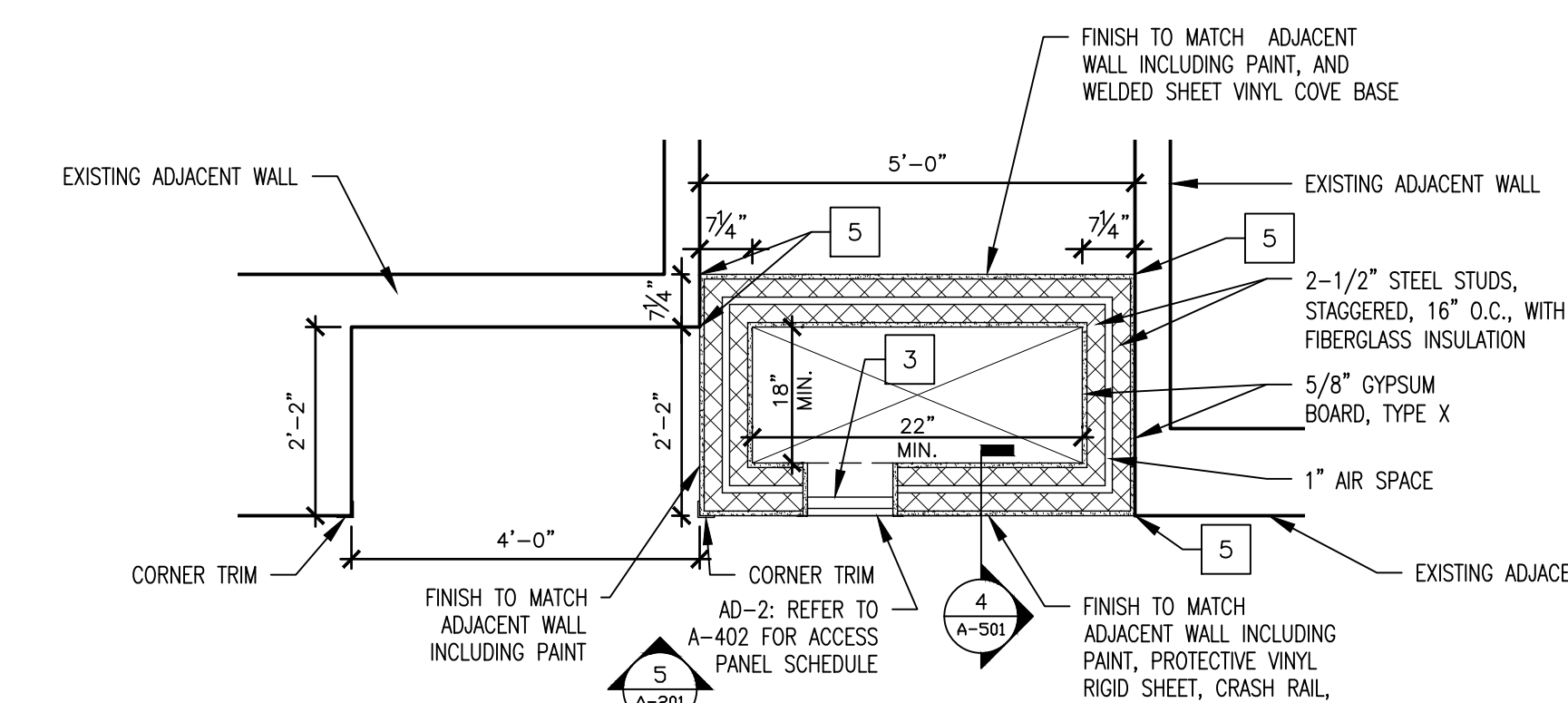
SYMBOL LEGEND

	RENOVATION KEYNOTE
	WALLS - NEW CONSTRUCTION
	MAKE-UP AIR SUPPLY DUCT
	NOTATION OF SOFFIT LIMIT
	NOTATION OF WALL CABINET OVERHANG
	TEMPORARY CONSTRUCTION BARRIER

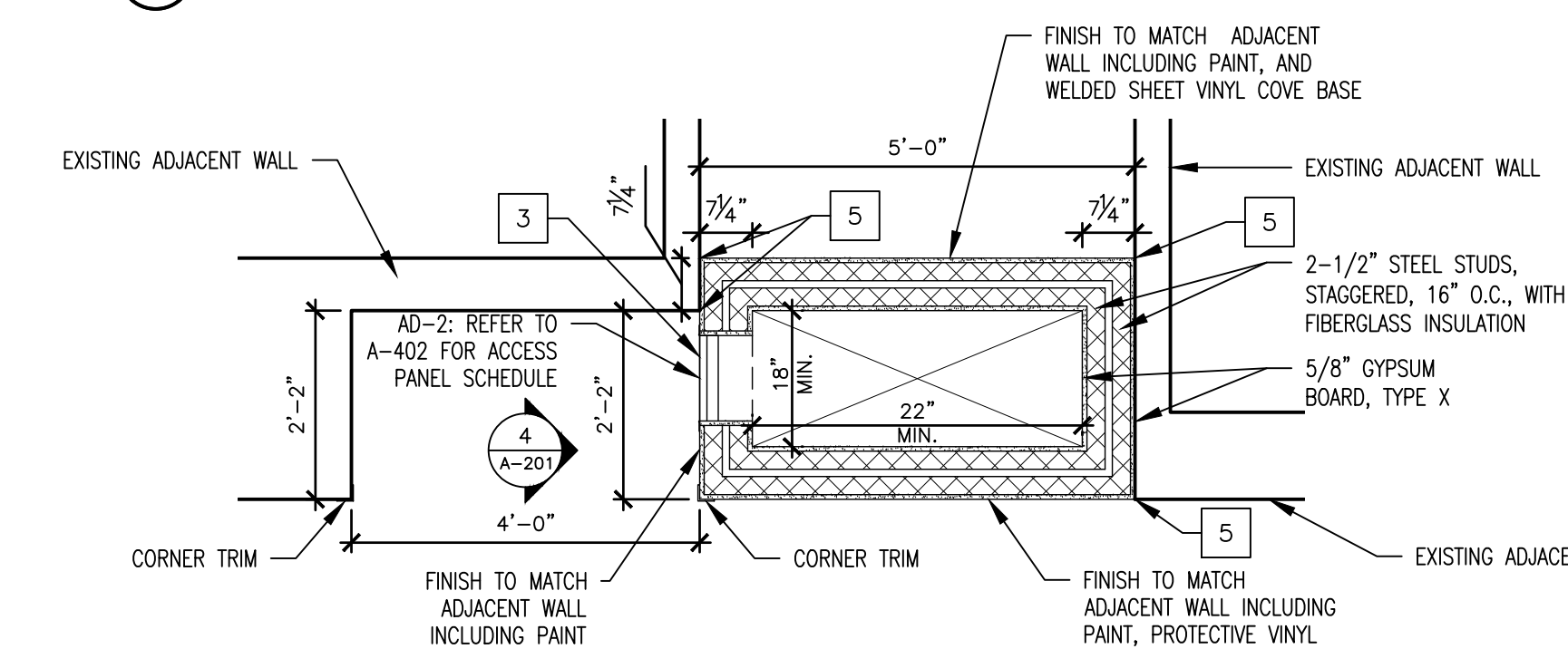
- GENERAL NOTES:**
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 2. CONTRACTOR SHALL USE CARE DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ADJACENT FINISHES AND EXISTING CONDITIONS NOT INCLUDED IN SCOPE OF WORK.
 3. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM SITE ON A DAILY BASIS. COORDINATE DUMPSTER DUMP TRUCK LOCATION AND ACCESS WITH THE OWNER.
 4. CONTRACTOR IS RESPONSIBLE FOR WATER TIGHTENING THE PROPERTY AT THE END OF EACH DAY REGARDLESS OF THE WEATHER FORECAST.
 5. CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AT ANY BUILDING OPENINGS UNDER CONSTRUCTION AND SHALL ENSURE THE LOCKED SECURE CLOSURE AT THE END OF EACH WORKING DAY.
 6. ALL MATERIALS AND EQUIPMENT NOT REQUIRED TO BE REMOVED FOR THE EXECUTION OF THE PROJECT SHALL BE LEFT IN PLACE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
 7. ALL REMOVED AND SALVAGED MATERIALS IN LIKE-NEW CONDITION SHALL BE OFFERED TO OWNER FOR REUSE.



3 3RD FLOOR UNIT 11 ALCOVE & CHASE PLAN
SCALE: 1/2" = 1'-0"



4 3RD FLOOR UNIT 12 ALCOVE & CHASE PLAN
SCALE: 1/2" = 1'-0"

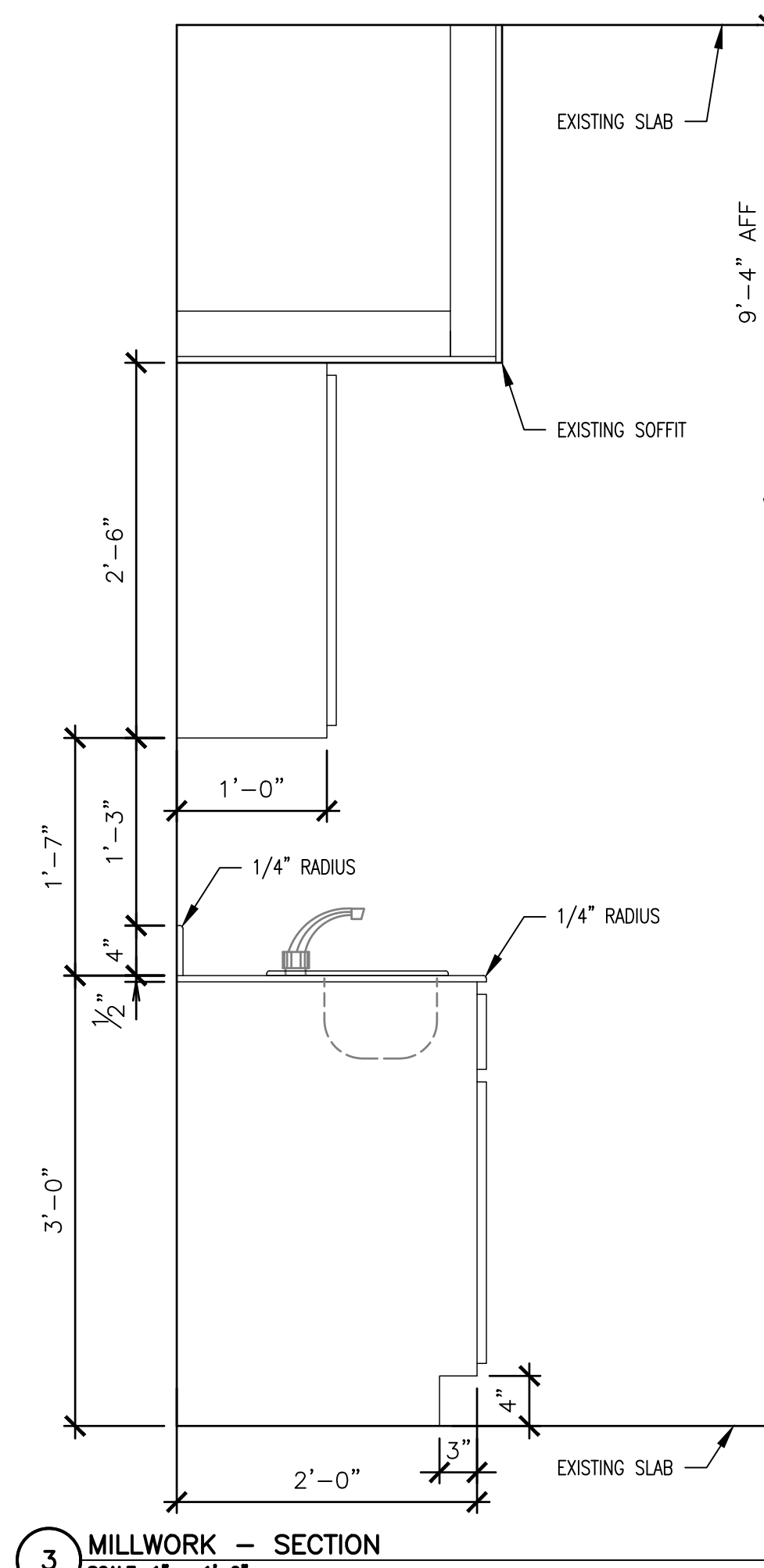


5 2ND FLOOR TYP. ALCOVE & CHASE PLAN
SCALE: 1/2" = 1'-0"

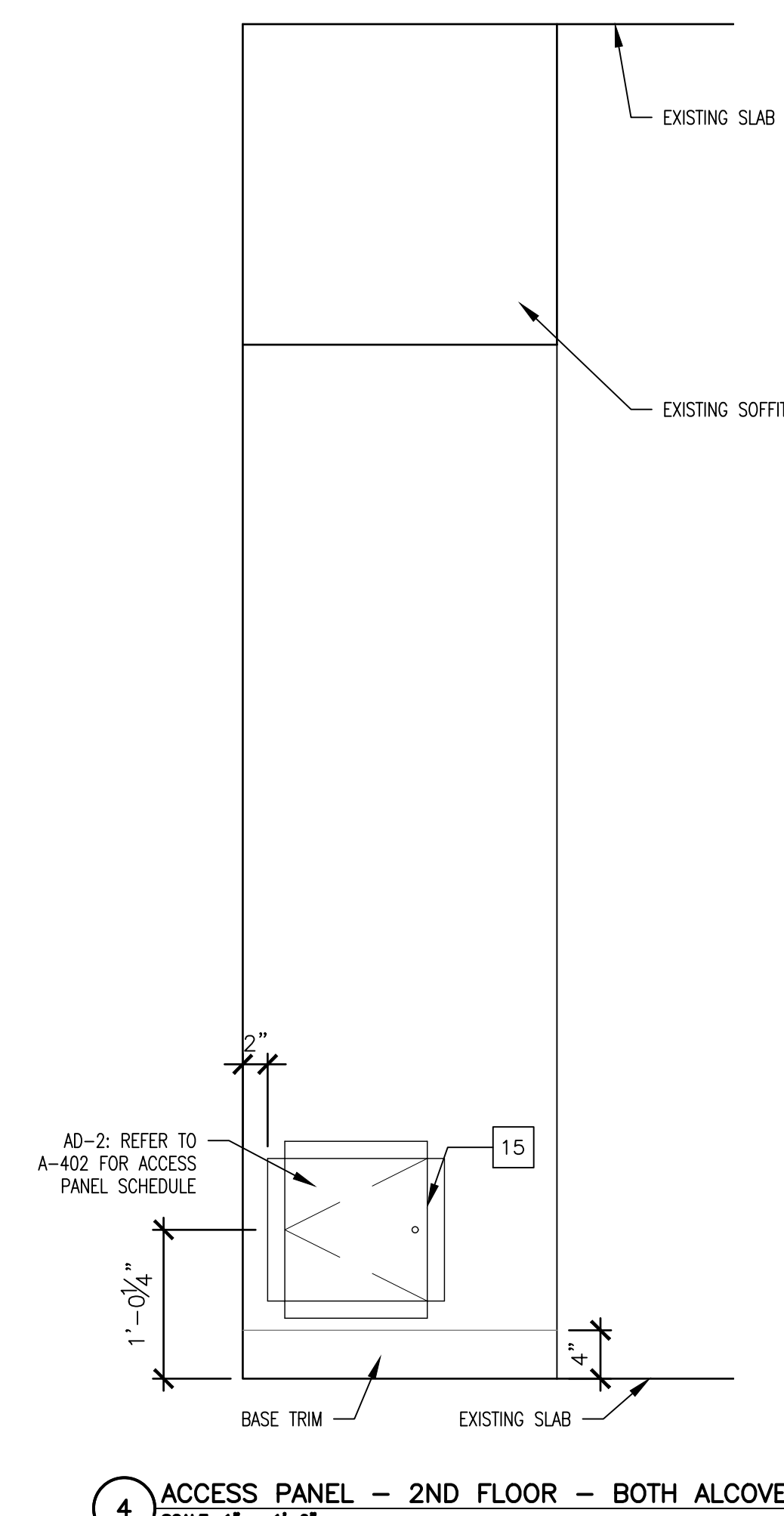


Brad M. Schaefer - Architect
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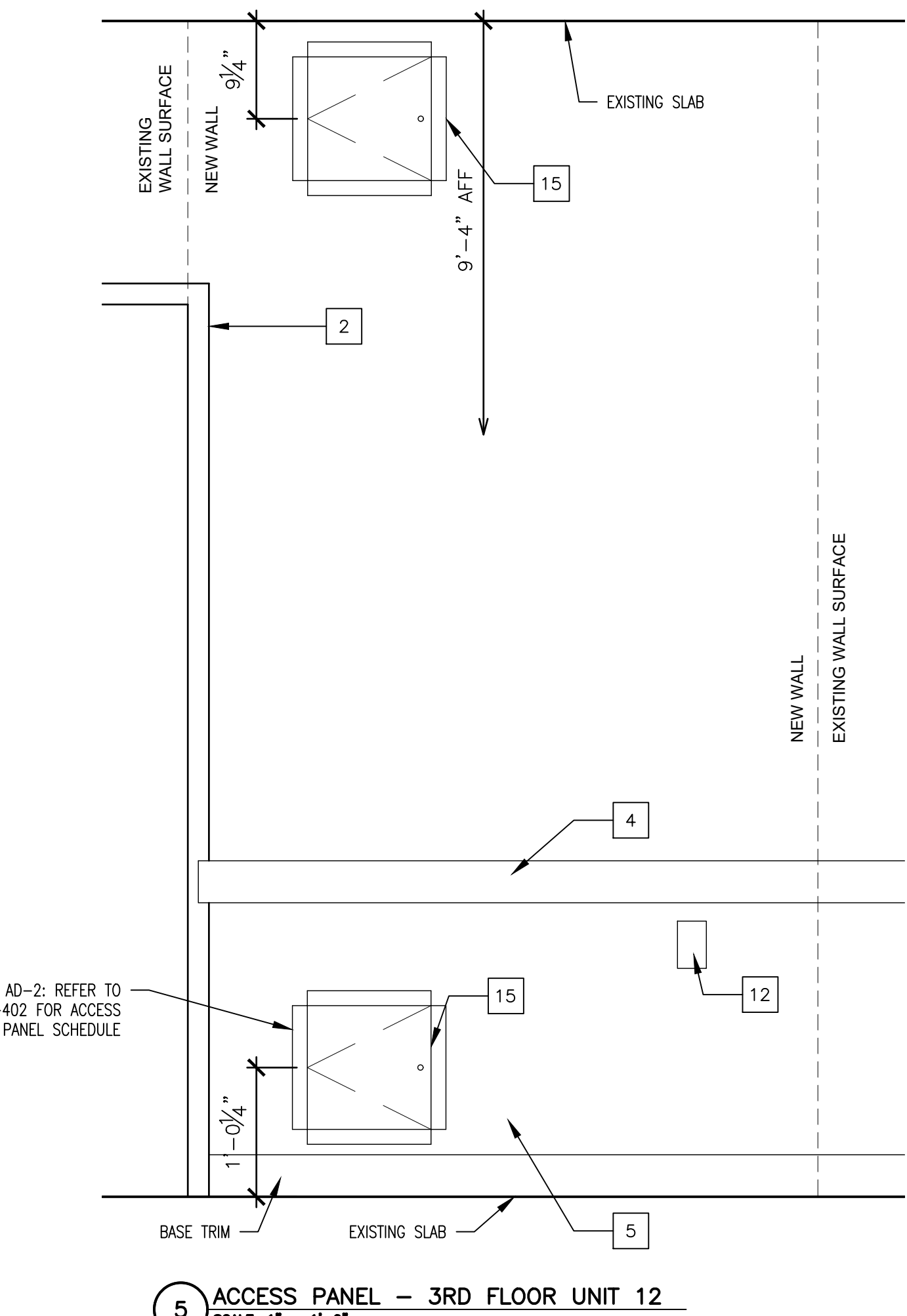
**BID
DOCUMENTS**



3 MILLWORK - SECTION
SCALE: 1" = 1'-0"



4 ACCESS PANEL - 2ND FLOOR - BOTH ALCOVES
SCALE: 1" = 1'-0"

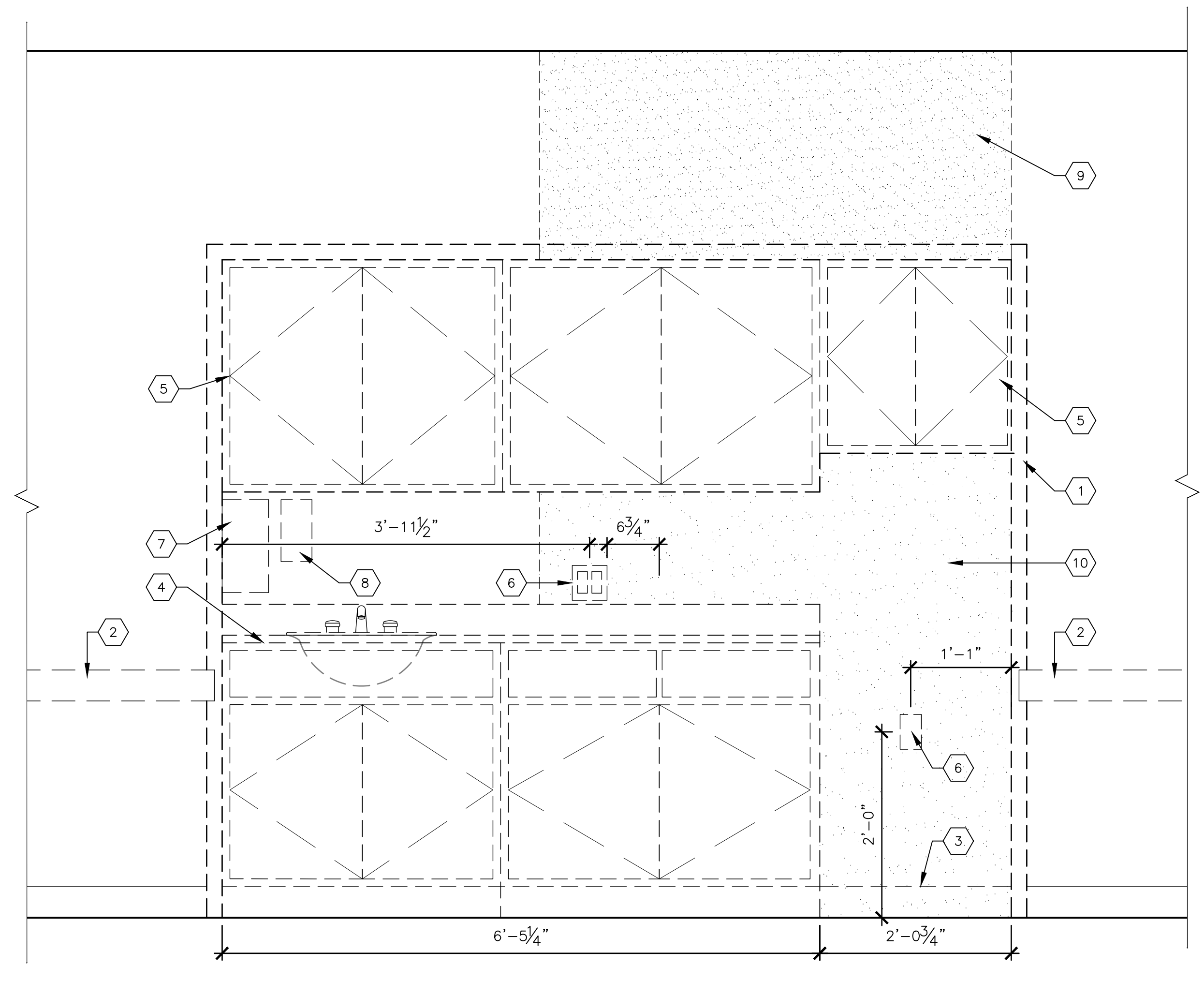


5 ACCESS PANEL - 3RD FLOOR UNIT 12
SCALE: 1" = 1'-0"

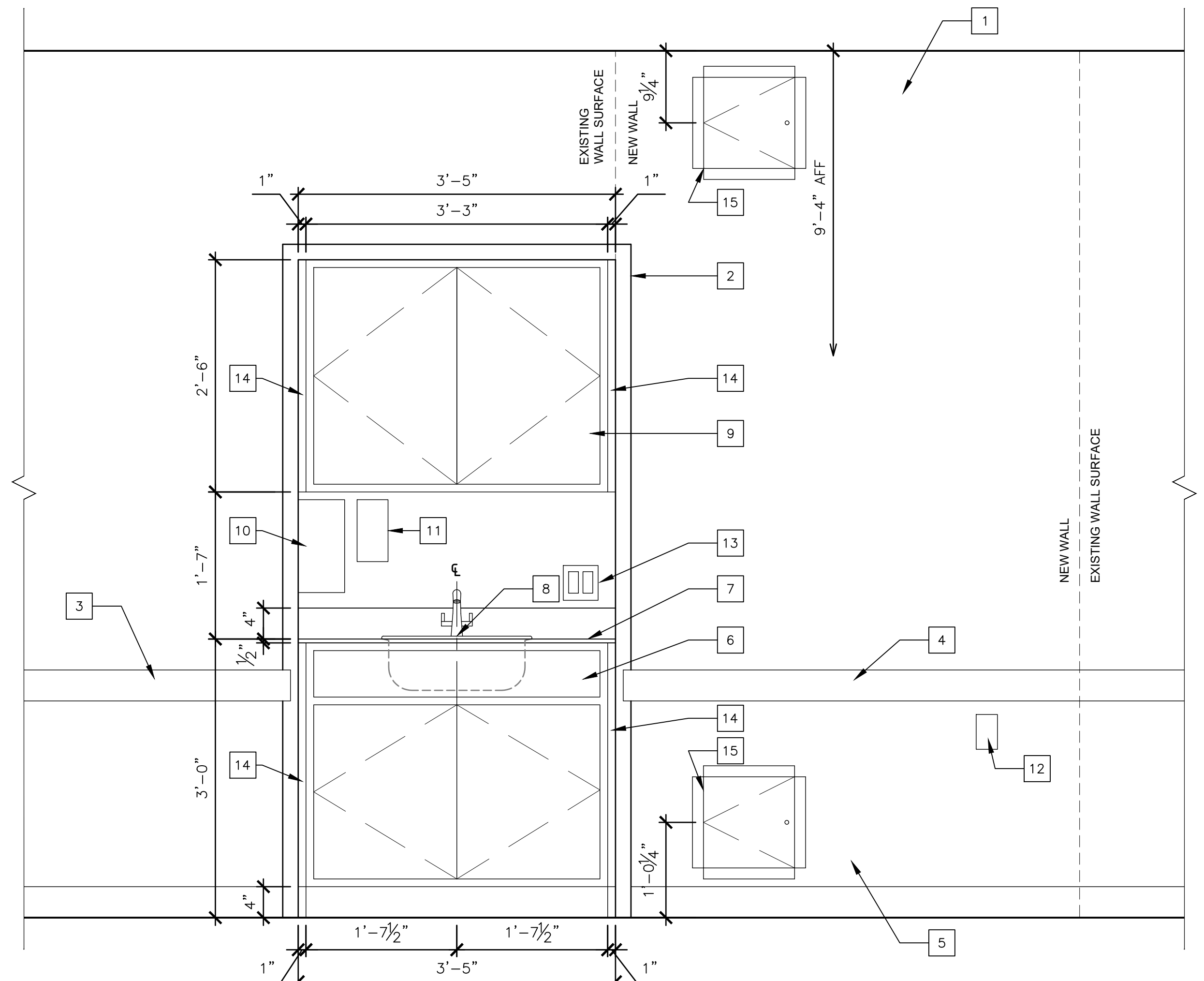
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 - ALL MATERIALS AND EQUIPMENT NOT REQUIRED TO BE REMOVED FOR THE EXECUTION OF THE PROJECT SHALL BE LEFT IN PLACE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
 - ALL REMOVED AND SALVAGED MATERIALS IN LIKE-NEW CONDITION SHALL BE OFFERED TO OWNER FOR REUSE.

- DEMOLITION KEYNOTES:**
- REMOVE EXISTING CORNER WALL TRIM, TO BE MODIFIED AND REINSTALLED.
 - REMOVE EXISTING CHAIR RAIL WALLGUARD, SAVE FOR REUSE.
 - REMOVE VINYL WALL BASE.
 - REMOVE EXISTING COUNTERTOP, SINK, AND BASE CABINETRY.
 - REMOVE EXISTING WALL CABINETRY.
 - ELECTRICAL OUTLET TO BE REMOVED AND SALVAGED. REFER TO ELECTRICAL DRAWINGS FOR DETAILS PATCH ABANDONED OUTLET LOCATION.
 - REMOVE EXISTING PAPER TOWEL DISPENSER AND SALVAGE FOR REUSE.
 - REMOVE EXISTING SOAP DISPENSER AND SALVAGE FOR REUSE.
 - REMOVE EXISTING SOFFIT STUDS TO SLAB ABOVE, TO EXTENTS SHOWN BY HATCH. REFER TO A-401 FOR DETAILS.
 - REMOVE EXISTING WALL TO SLAB ABOVE, TO EXTENTS SHOWN BY HATCH. REFER TO A-401 FOR DETAILS.

- RENOVATION KEYNOTES:**
- CONSTRUCT 1-HOUR FIRE-RATED WALL, UL U493, FOR CHASE FROM FLOOR TO SLAB ABOVE. REFER TO A-402 AND A-501 FOR DETAILS. MATCH EXISTING FINISH OF NEW WALLS TO EXISTING ADJACENT WALL.
 - REINSTALL MODIFIED CORNER WALL TRIM.
 - REINSTALL SALVAGED CHAIR RAIL WALL GUARD.
 - NEW CHAIR RAIL EXTENSION TO MATCH EXISTING.
 - NEW VINYL WALL PANEL AND BASE TO MATCH EXISTING.
 - INSTALL NEW BASE CABINETRY TO LOCATION SHOWN. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
 - INSTALL NEW SOLID SURFACE COUNTERTOP, 1/2" THICK, WITH 4" HIGH BACKSPASH. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
 - INSTALL NEW SINK AND FAUCET TO LOCATION SHOWN. REFER TO PLUMBING DRAWINGS FOR DETAILS.
 - INSTALL NEW WALL CABINETRY TO LOCATION SHOWN. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
 - REINSTALL SALVAGED PAPER TOWEL DISPENSER TO SAME LOCATION.
 - REINSTALL SALVAGED SOAP DISPENSER TO SAME LOCATION.
 - REINSTALL ELECTRICAL OUTLET. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
 - REINSTALL GFCI ELECTRICAL OUTLET. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
 - FILL REMAINDER OF OPENING WITH FACTORY FINISHED TRIM TO MATCH CABINET FINISH.
 - GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE RATED ACCESS DOOR FOR ACCESS TO BALANCE DAMPERS. BOTTOM OF ACCESS DOOR TO BE 1" ABOVE NEW WALL BASE. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE FINAL ACCESS DOOR LOCATION TO ALLOW FOR OPTIMAL ACCESS TO DAMPER.



1 ALCOVE ELEVATION - 3RD FLOOR UNIT 11 - DEMOLITION
SCALE: 1" = 1'-0"



2 ALCOVE ELEVATION - 3RD FLOOR UNIT 11
SCALE: 1" = 1'-0"

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INFECTION CONTROL

MEXICO VETERANS
HOME
1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 04/11/2024

CAD DWG FILE: A-U2301-03
DRAWN BY: CL
CHECKED BY: BS
DESIGNED BY: CL

SHEET TITLE:
**ARCHITECTURAL
ELEVATIONS**

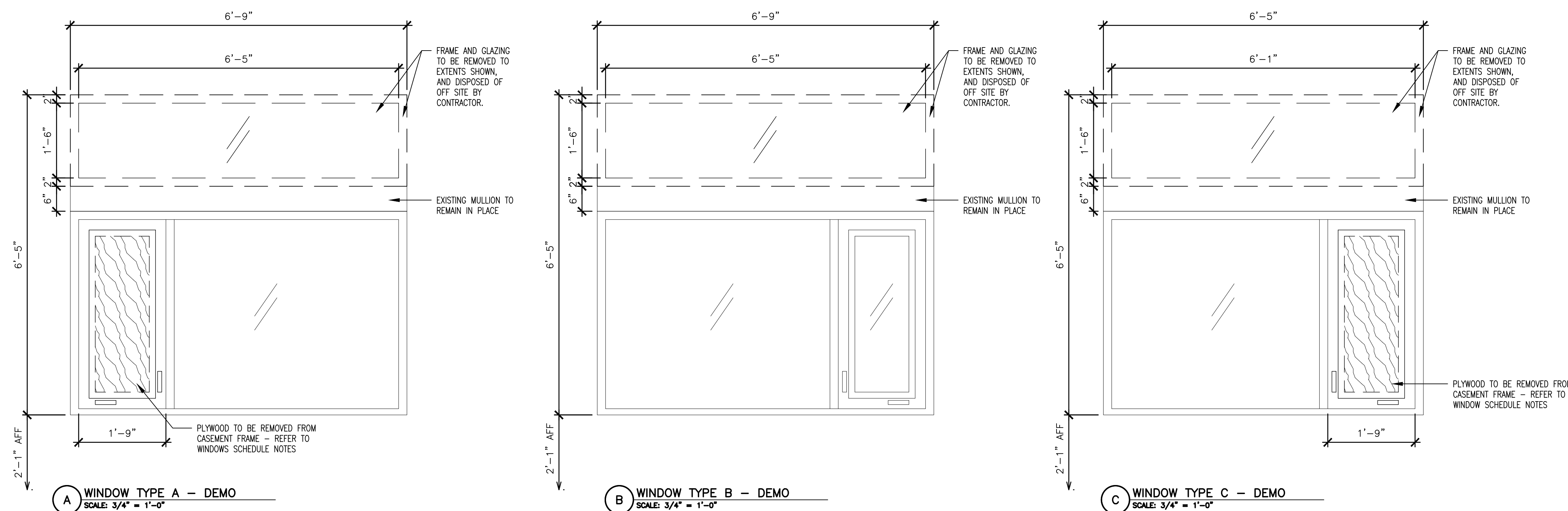
SHEET NUMBER:

A-201

8 OF 28 SHEETS
4/11/2024



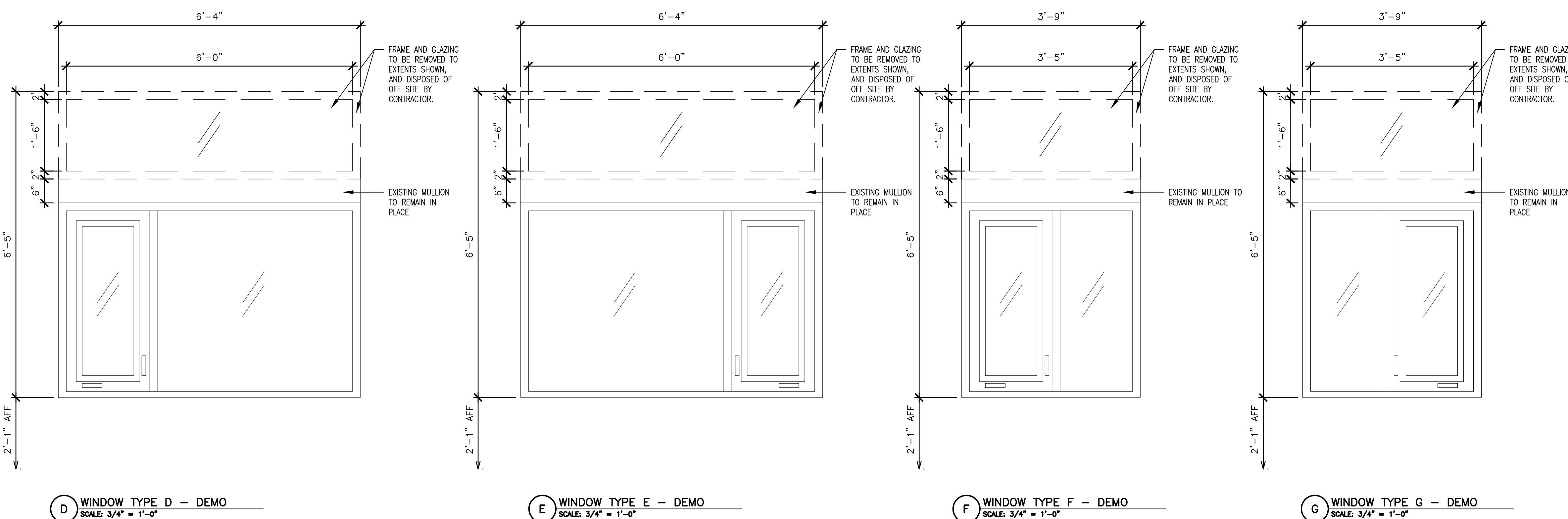
**BID
DOCUMENTS**



WINDOW SCHEDULE - DEMO				
MARK	ROOM	SIZE	TYPE	NOTES
W1	102	6'-5" x 6'-5"	C	1, 2
W2	103	3'-9" x 6'-5"	G	1
W3	104	6'-4" x 6'-5"	E	1
W4	106	6'-4" x 6'-5"	D	1
W5	107	3'-9" x 6'-5"	F	1
W6	108	6'-9" x 6'-5"	A	1, 2
W7	111	6'-9" x 6'-5"	B	1
W8	112	3'-9" x 6'-5"	G	1
W9	113	6'-4" x 6'-5"	E	1
W10	115	6'-4" x 6'-5"	D	1
W11	116	3'-9" x 6'-5"	F	1
W12	117	6'-9" x 6'-5"	A	1

NOTES

- REMOVE TOP TRANSOM FRAME & GLASS.
- REMOVE PLYWOOD FROM CASEMENT FRAME.



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HVAC IMPROVEMENTS FOR
INFECTON CONTROL

MEXICO VETERANS
HOME
1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

REVISION: _____
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DATE: _____
ISSUE DATE: 04/11/2024

CAD DWG FILE: A-U2301-03
DRAWN BY: CL
CHECKED BY: BS
DESIGNED BY: CL

SHEET TITLE:
**WINDOW
SCHEDULE -
DEMOLITION**

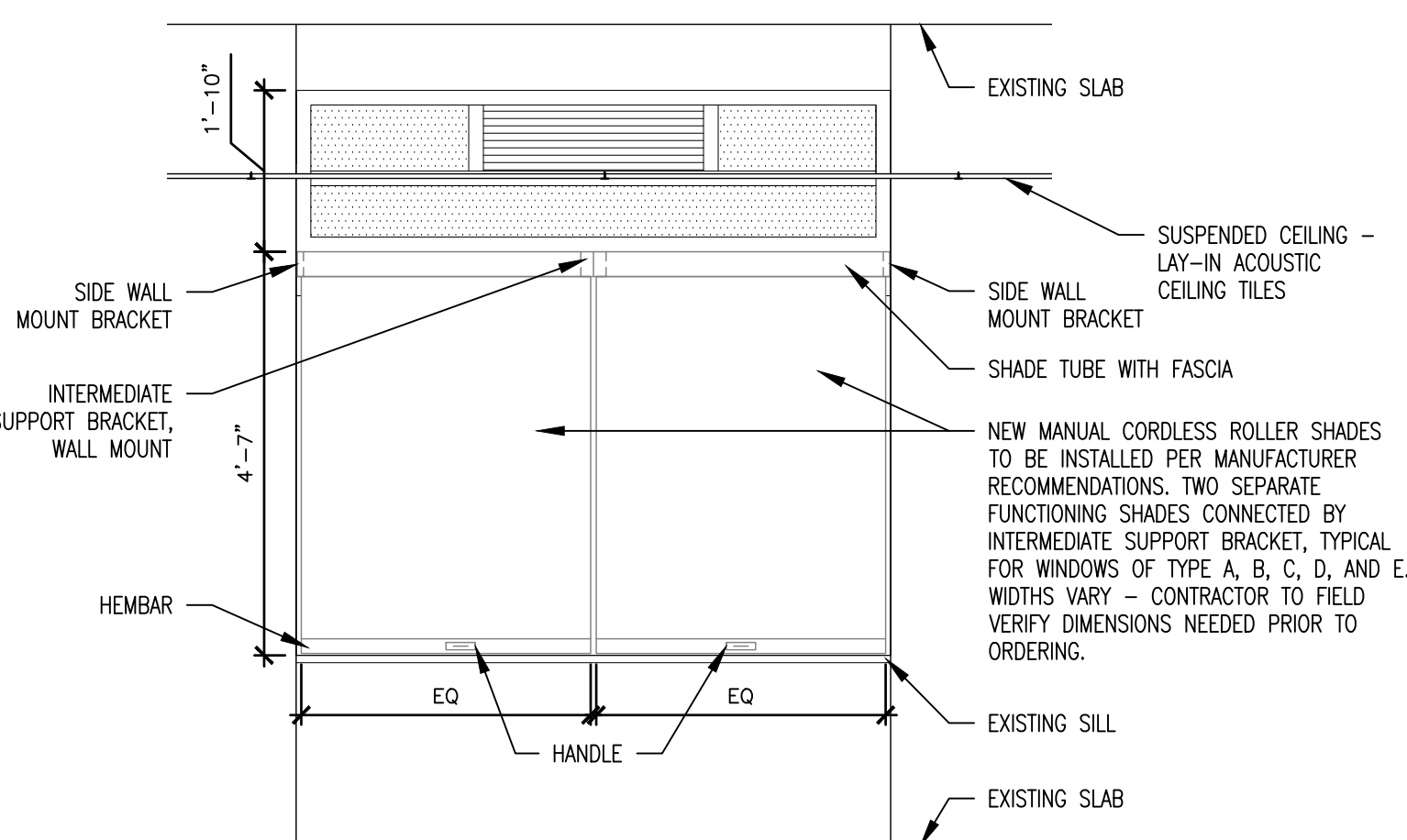
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A-401

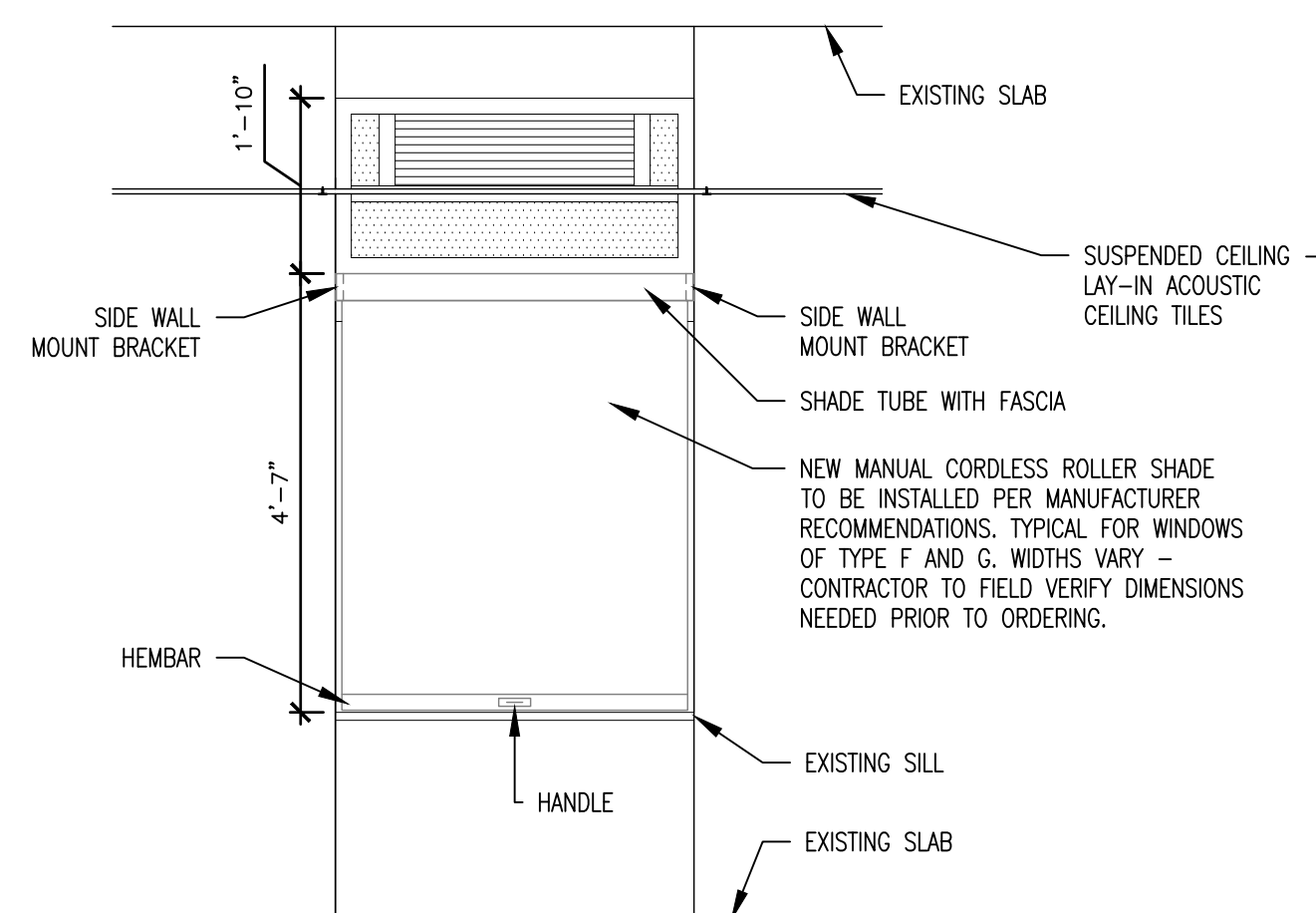


Brad M. Schaefer - Architect
MO# A-200927294

BID DOCUMENTS



1 TYPICAL WINDOW TREATMENT ELEVATION - TYPE A, B, C, D, & E
SCALE: 1/2" = 1'-0"



2 TYPICAL WINDOW TREATMENT ELEVATION - TYPE F & G
SCALE: 1/2" = 1'-0"

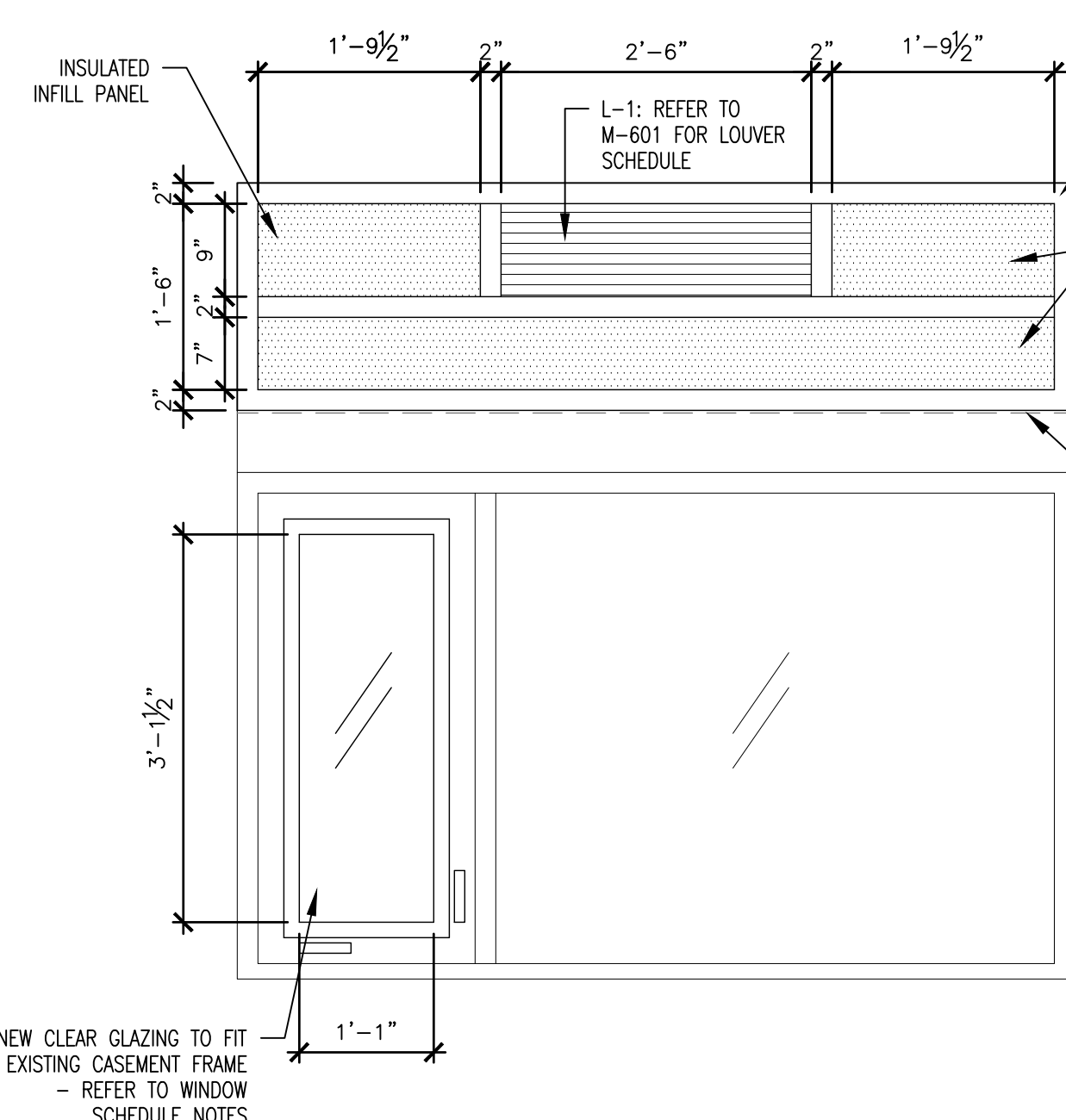
ACCESS PANEL SCHEDULE					
MARK	MANUFACTURER	MODEL	NOMINAL SIZE	TYPE	SPECIFICATION
AD-1	ACUDOR	AWDT	12" x 12"	AIRTIGHT AND WATERTIGHT ACCESS DOOR	DOOR: 16 GAUGE STEEL; FRAME: 16 GAUGE STEEL; HINGE: CONTINUOUS EXPOSED PIANO HINGE.
AD-2	ACUDOR	FB-5060-DW	12" x 12"	FIRE RATED - FOR WALLS	DOOR: 16 GAUGE STEEL; FRAME: 16 GAUGE STEEL W/ REINFORCED EDGES; HINGE: CONGEALED; FIRE RATING: UL 1-1/2 HOUR "B" LABEL; LATCH: UNIVERSAL SELF LATCHING BOLT

1. PRODUCTS LISTED ARE BASIS OF DESIGN, FOLLOW ALL MANUFACTURERS RECOMMENDED INSTALLATION SPECIFICATIONS.

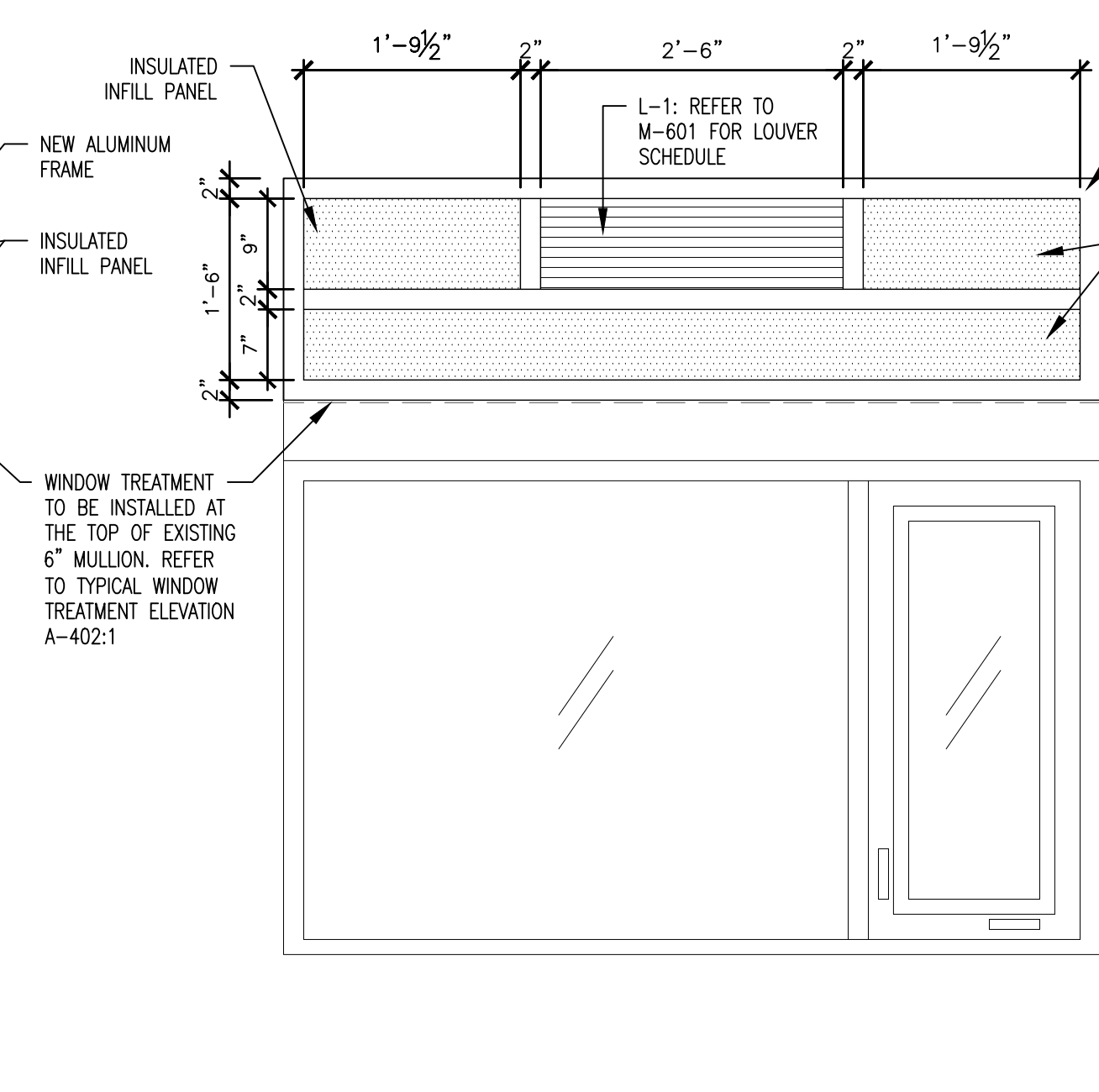
WINDOW SCHEDULE					
MARK	ROOM	SIZE	TYPE	NOTES	
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W4	106	6'-4" x 6'-5"	D	1, 2	
W5	107	3'-9" x 6'-5"	F	1, 2	
W6	108	6'-9" x 6'-5"	A	1, 2, 3	
W7	111	6'-9" x 6'-5"	B	1, 2	
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W9	113	6'-4" x 6'-5"	E	1, 2	
W10	115	6'-4" x 6'-5"	D	1, 2	
W11	116	3'-9" x 6'-5"	F	1, 2	
W12	117	6'-9" x 6'-5"	A	1, 2	

NOTES

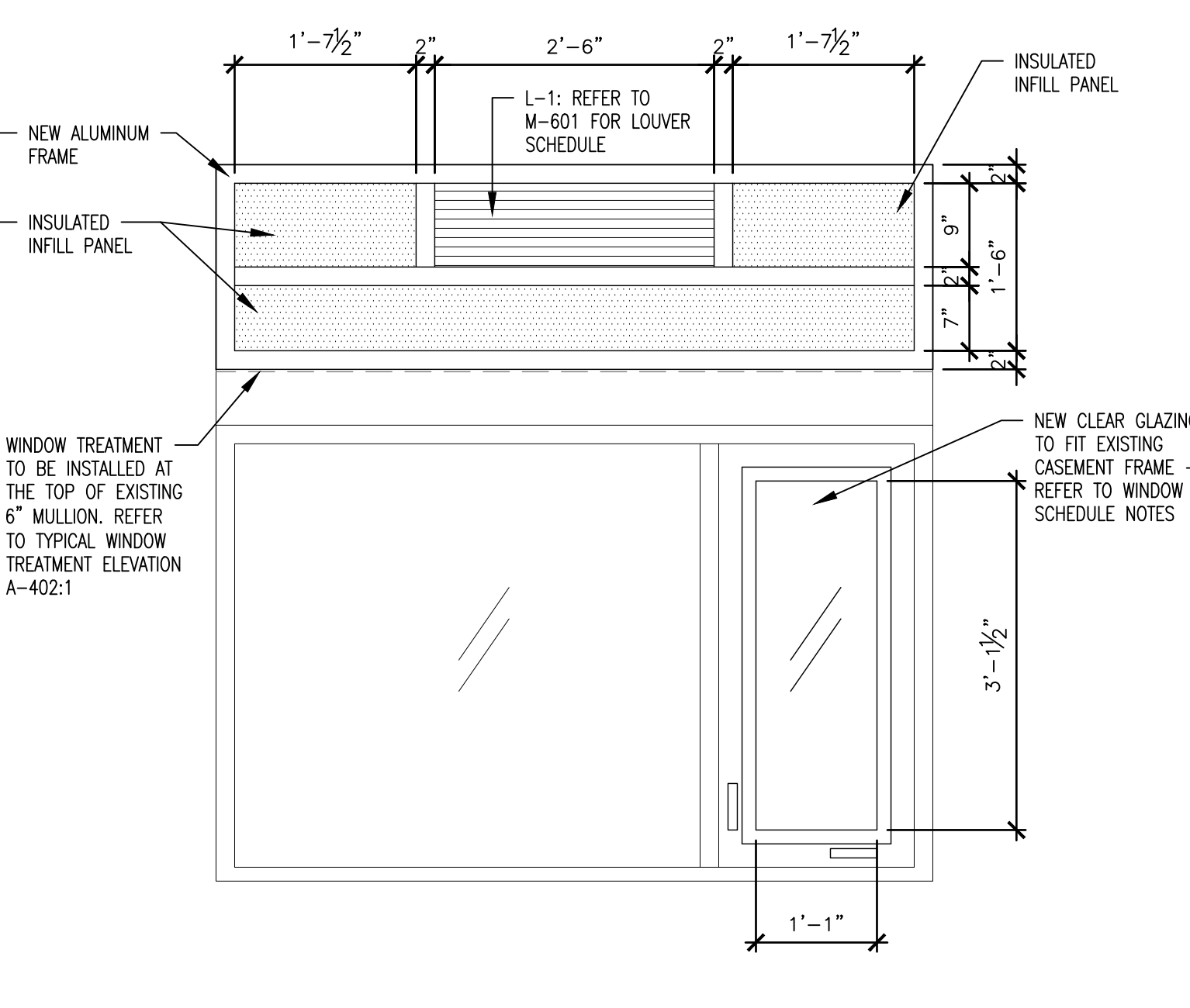
- REFER TO MEP DRAWINGS FOR LOUVER SIZE, LOCATION, AND DETAILS.
- INSTALL NEW LOUVER AND INSULATED INFILL PANEL INTO NEW ALUMINUM FRAME CUSTOM TO WINDOW SIZE. SEE SPECIFICATIONS. VERIFY WINDOW SIZE PRIOR TO ORDERING.
- INSTALL NEW CLEAR GLAZING INTO EXISTING CASEMENT FRAME.



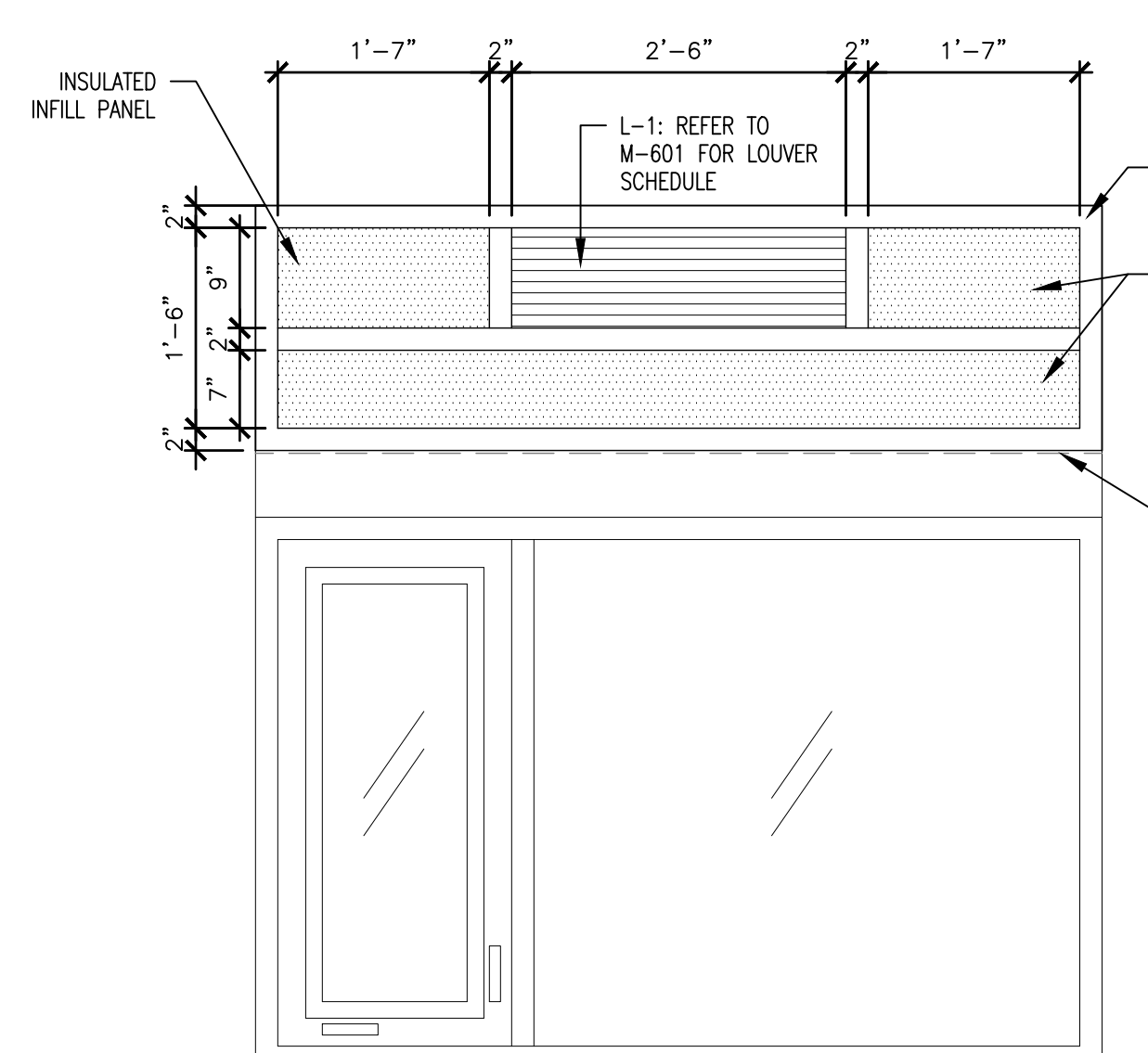
A WINDOW TYPE A
SCALE: 3/4" = 1'-0"



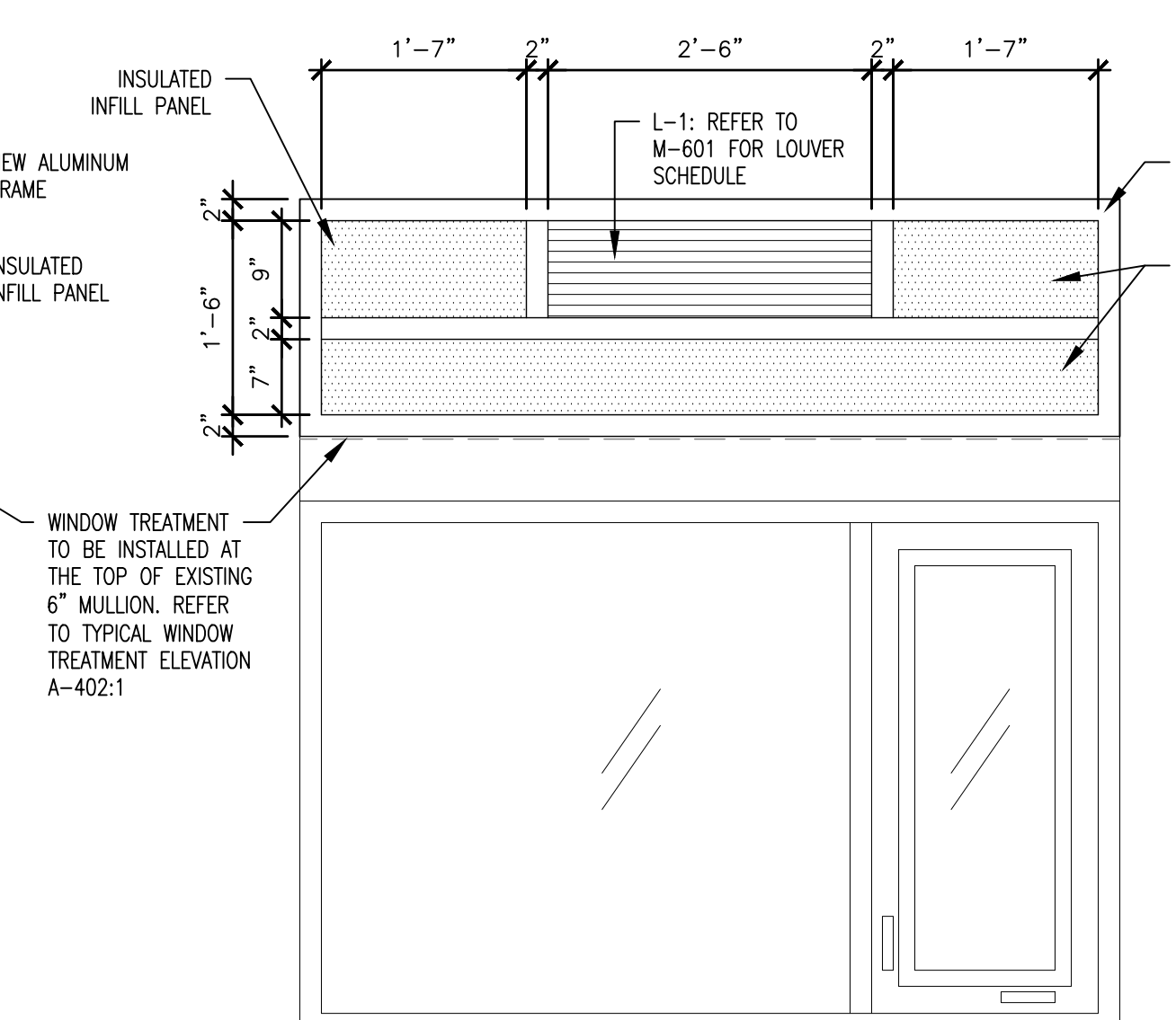
B WINDOW TYPE B
SCALE: 3/4" = 1'-0"



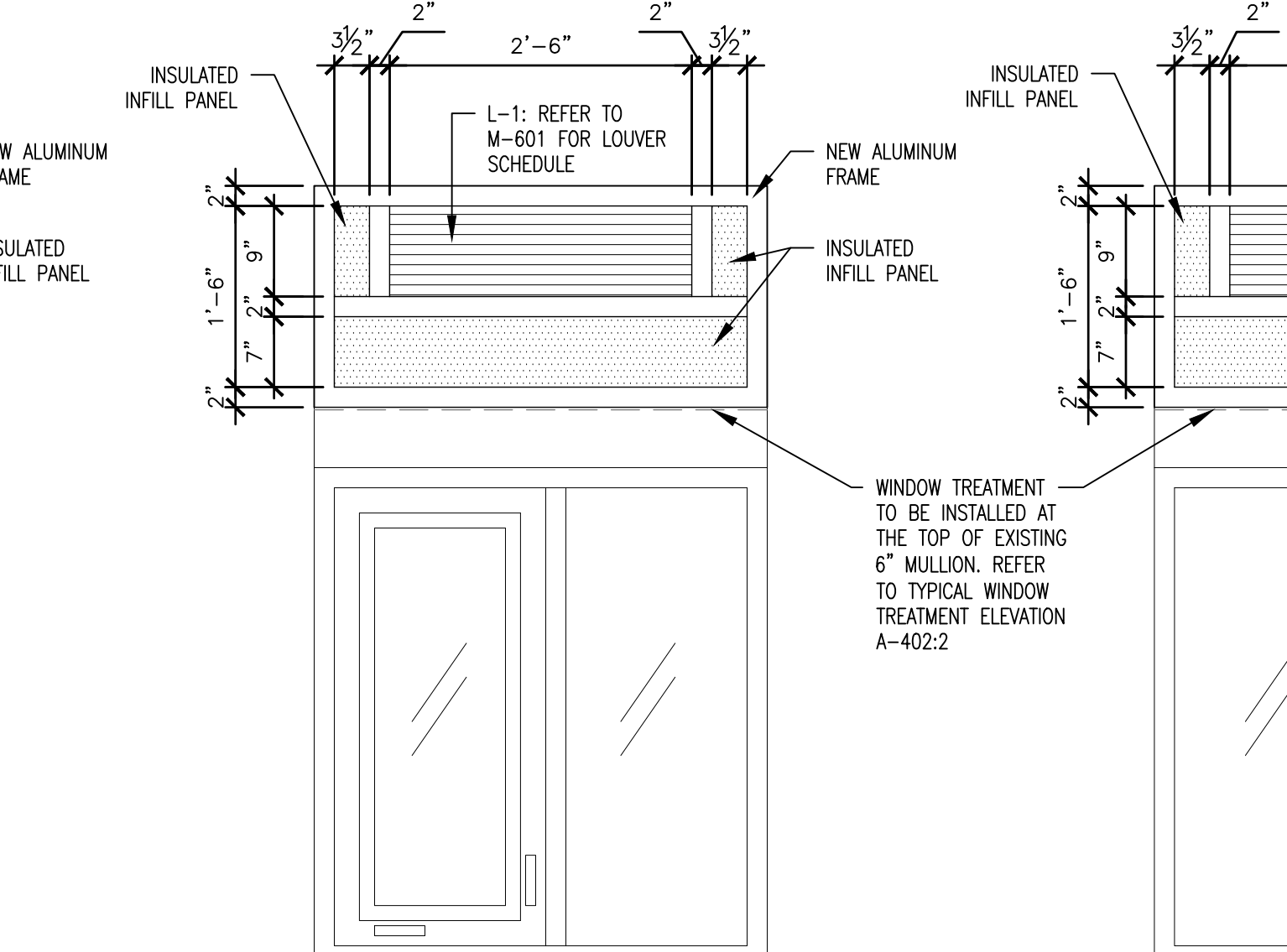
C WINDOW TYPE C
SCALE: 3/4" = 1'-0"



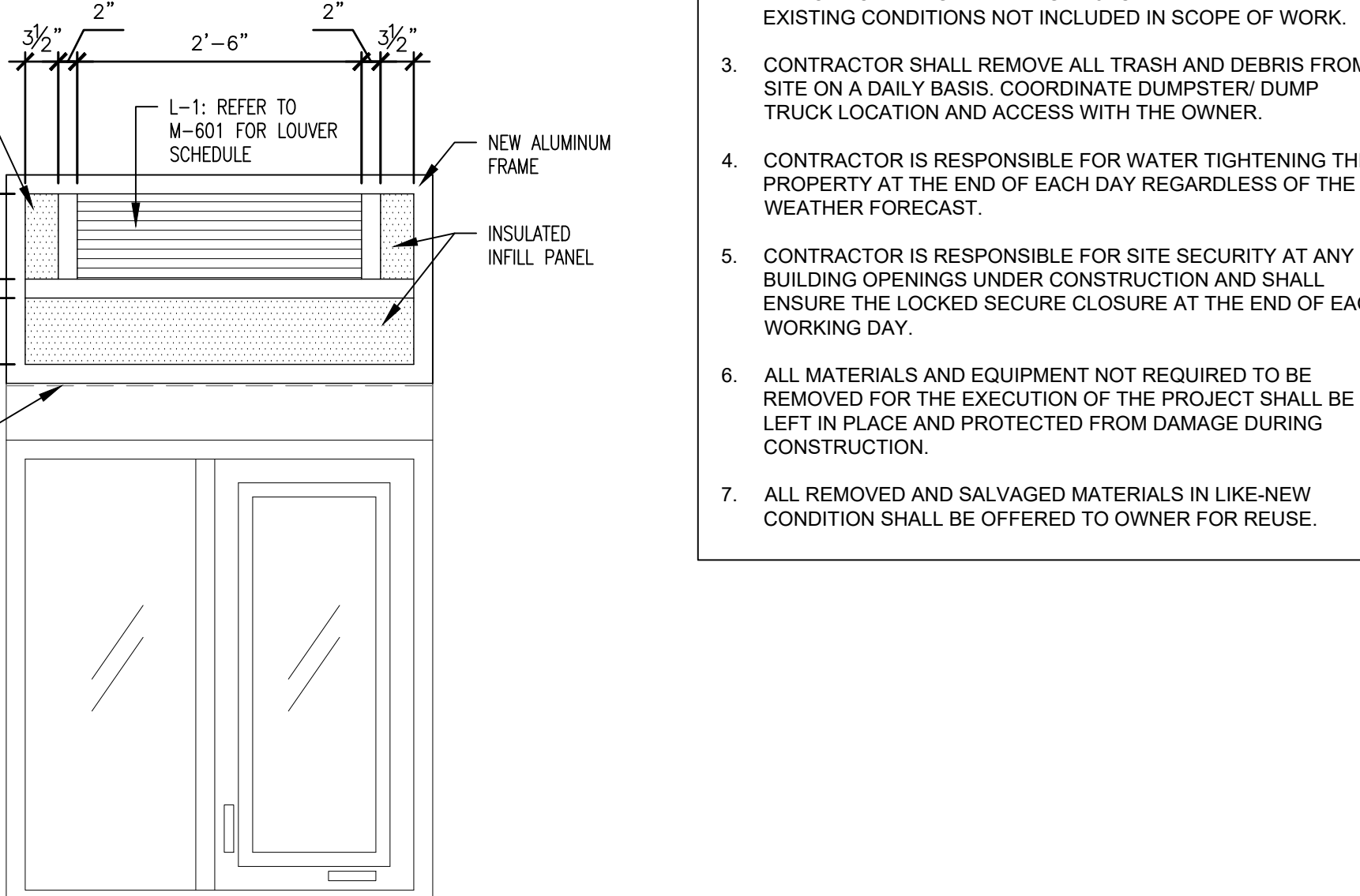
D WINDOW TYPE D
SCALE: 3/4" = 1'-0"



E WINDOW TYPE E
SCALE: 3/4" = 1'-0"



F WINDOW TYPE F
SCALE: 3/4" = 1'-0"



G WINDOW TYPE G
SCALE: 3/4" = 1'-0"

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MEXICO VETERANS
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1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

REVISION: _____
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REVISION: _____
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DATE: _____
ISSUE DATE: 04/11/2024

CAD DWG FILE: A-U2301-03
DRAWN BY: CL
CHECKED BY: BS
DESIGNED BY: CL

SHEET TITLE:
**WINDOW &
ACCESS PANEL
SCHEDULE**

SHEET NUMBER:

A-402

10 OF 28 SHEETS
4/11/2024



Brad M. Schaefer - Architect
MO# A-2009027294

**BID
DOCUMENTS**

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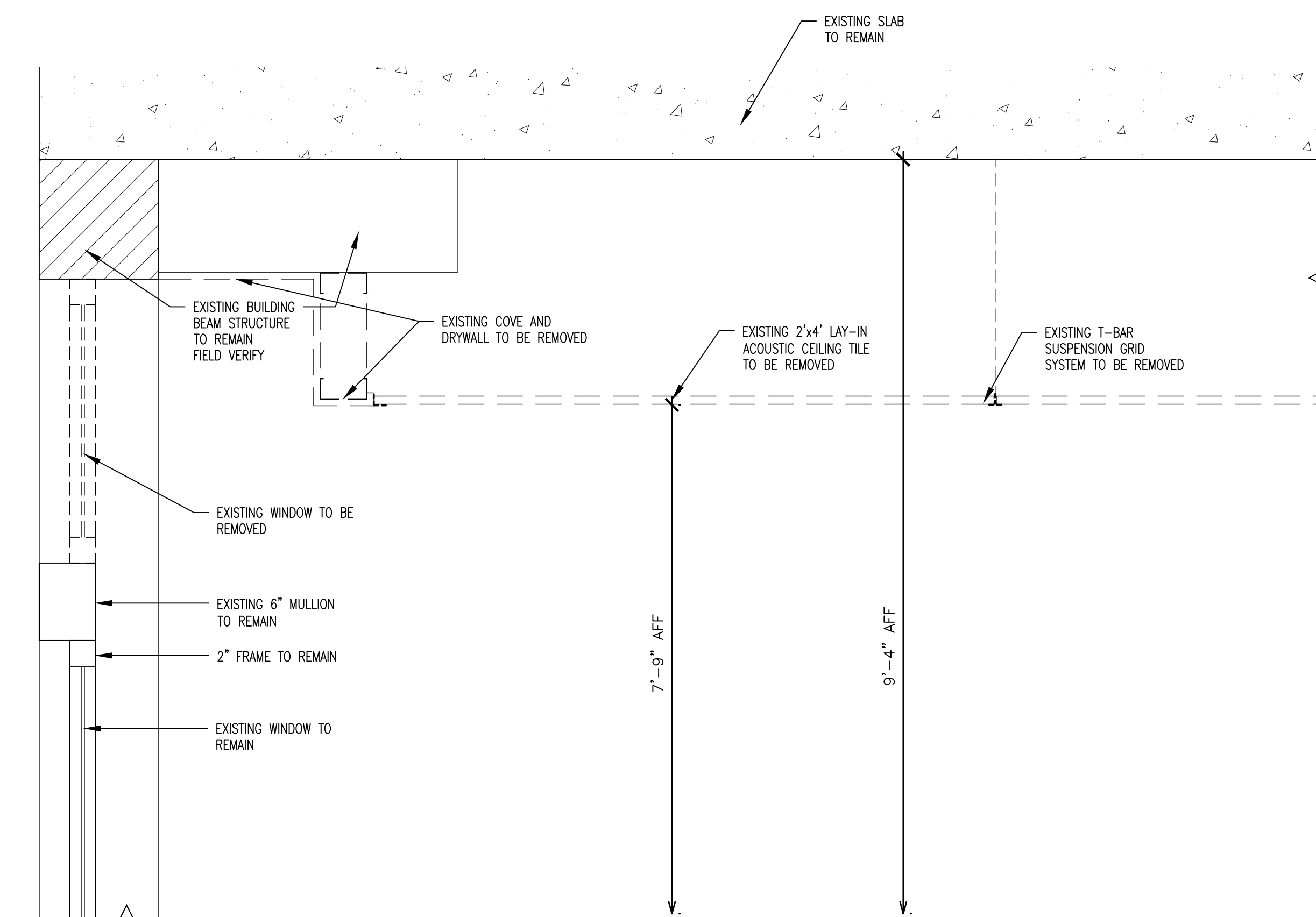
SHEET TITLE:
**ARCHITECTURAL
DETAILS**

SHEET NUMBER:

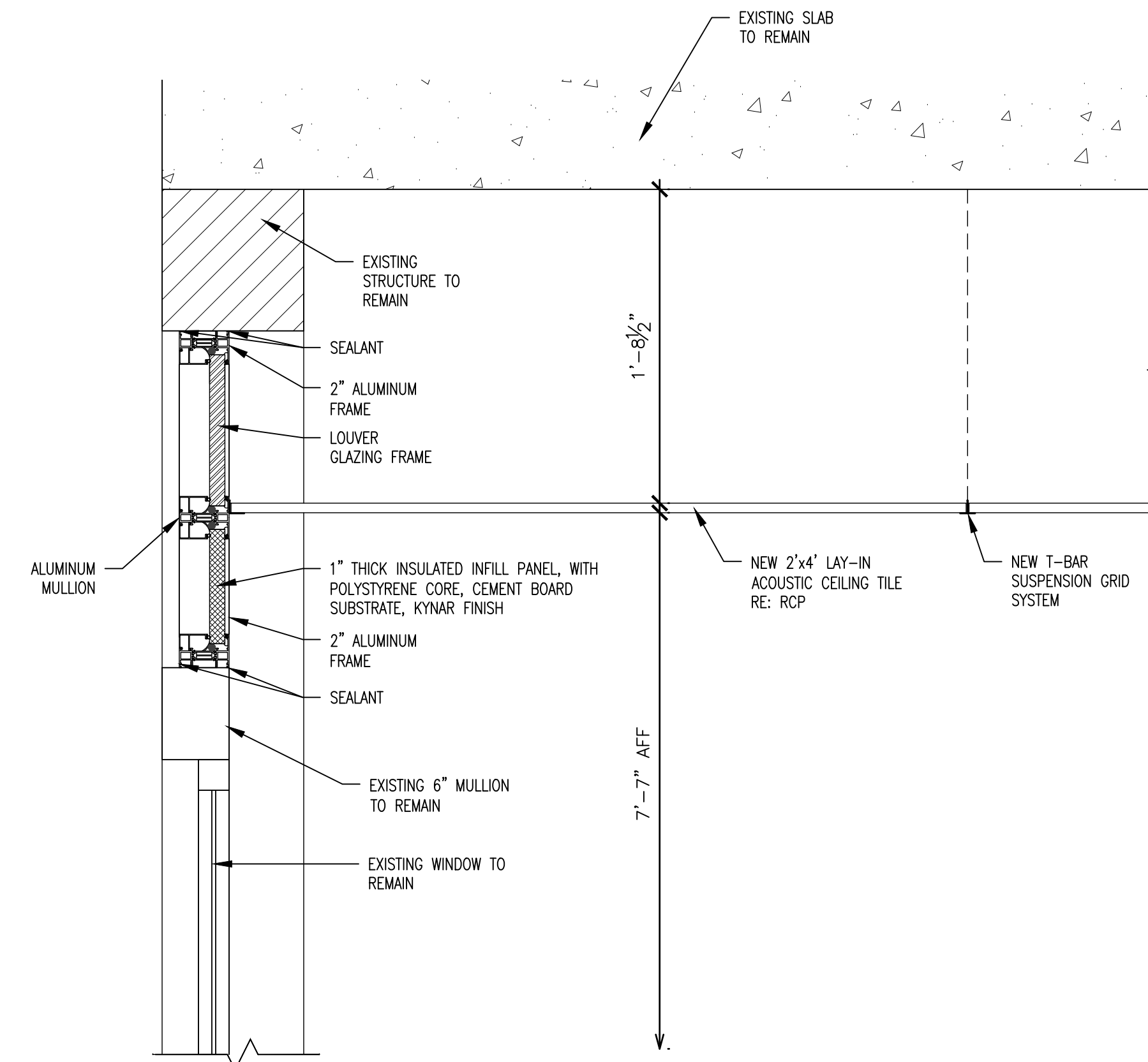
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11 OF 28 SHEETS
4/11/2024

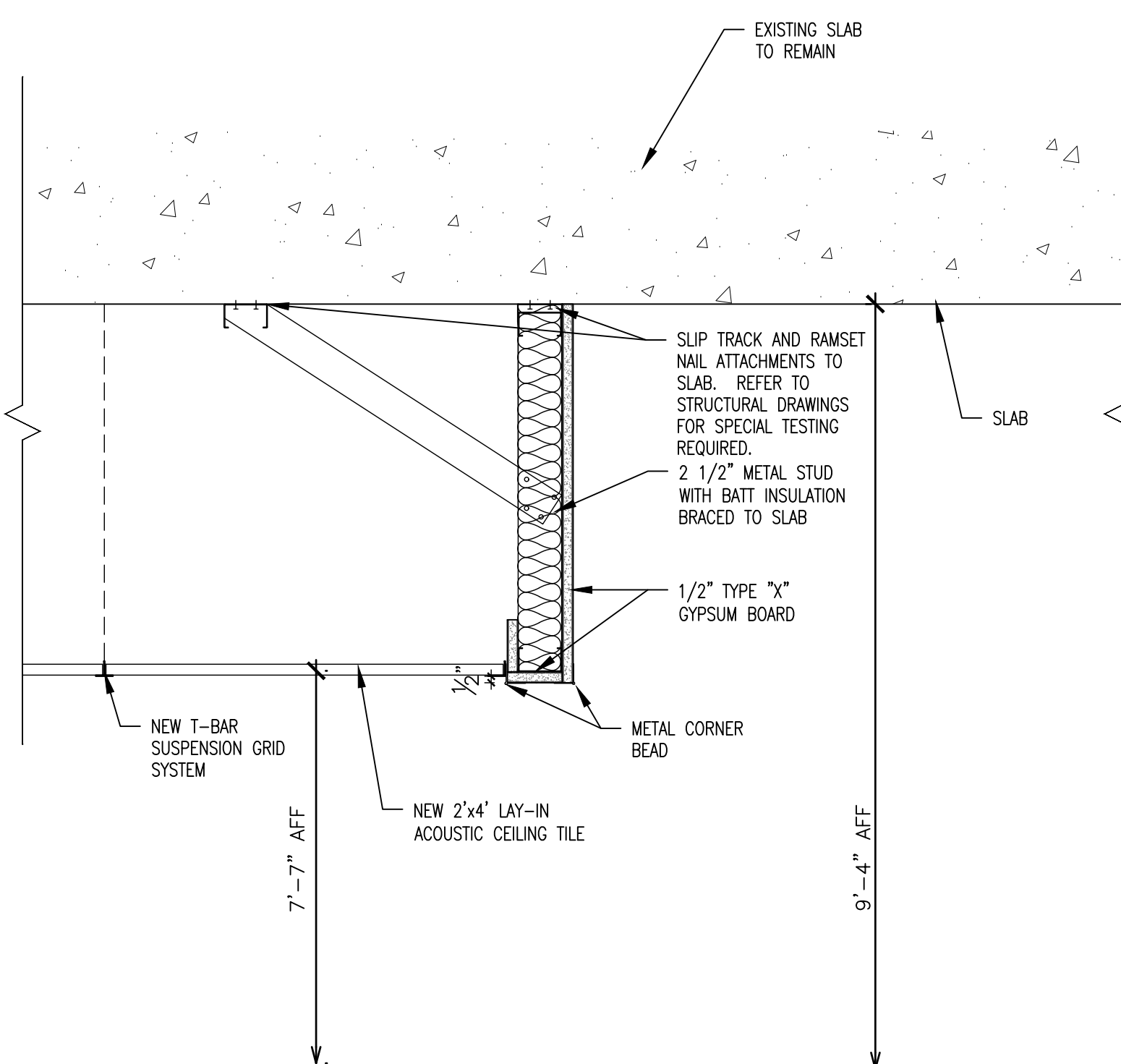
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 - PROTECT ALL OPENINGS OVERNIGHT IF WORK IS NOT COMPLETED DURING WORKING HOURS.



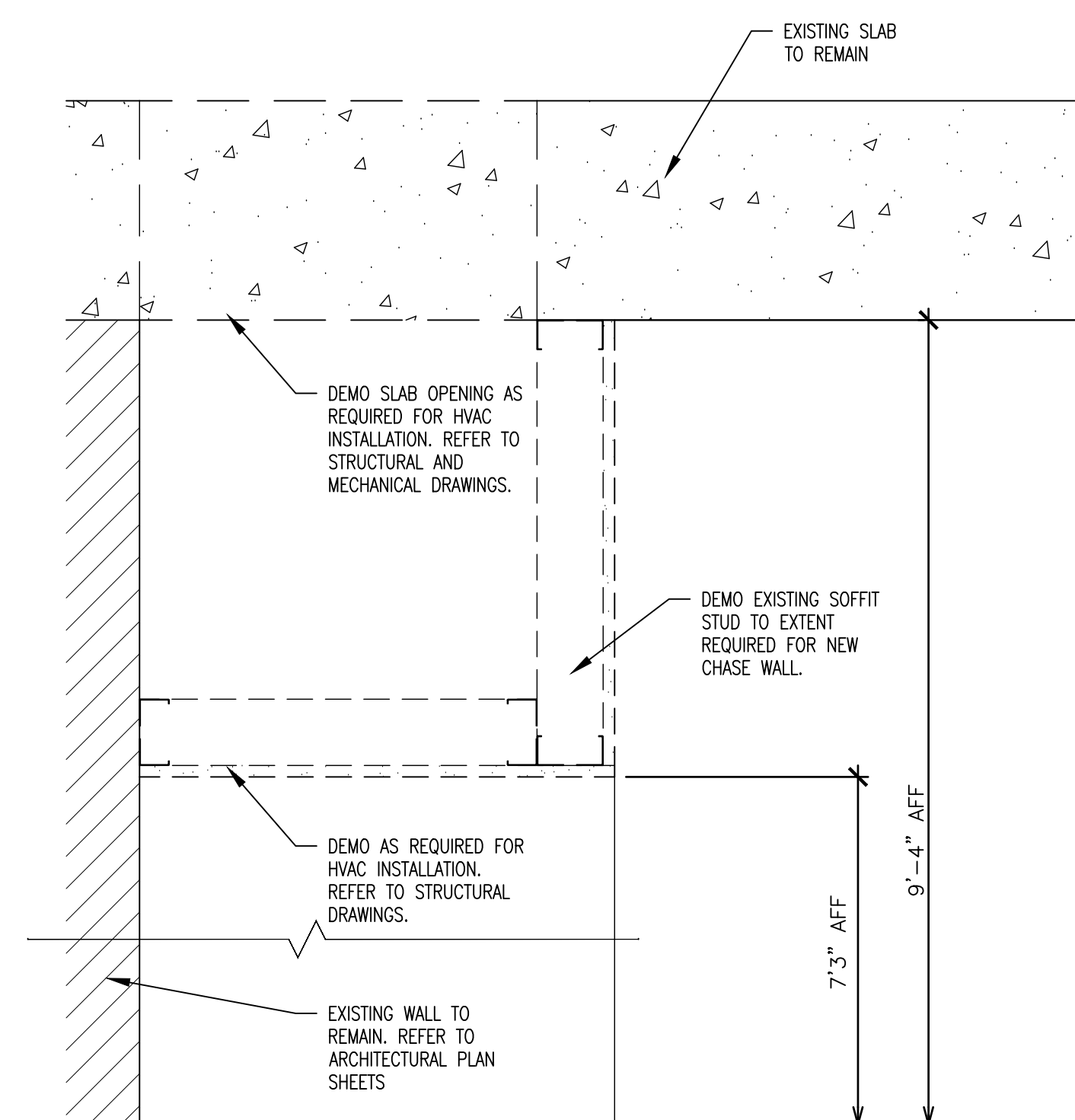
1 TYP. CEILING SECTION DETAIL AT WINDOW - DEMOLITION
SCALE: 1-1/2" = 1'-0"



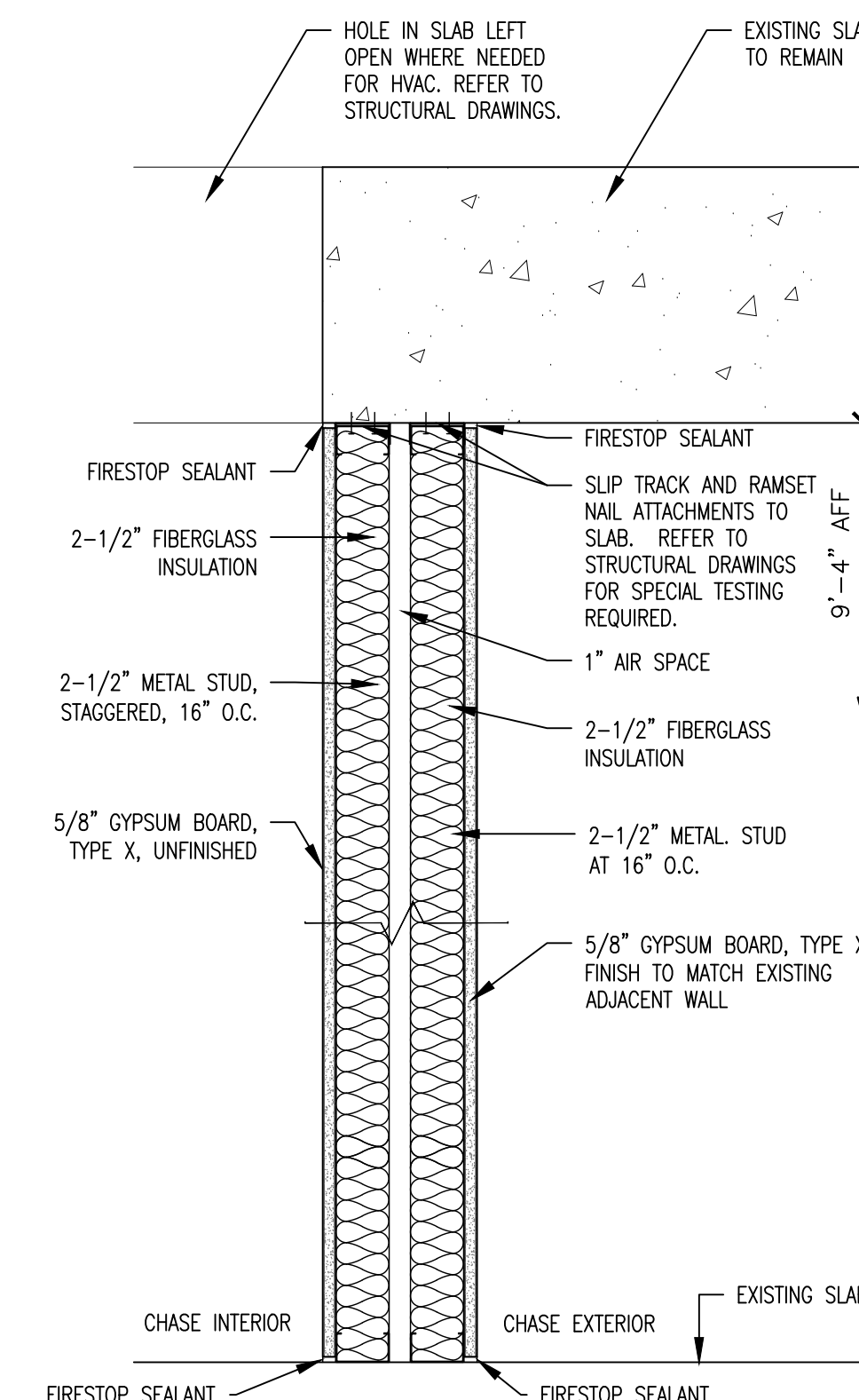
2 TYP. CEILING SECTION DETAIL AT WINDOW
SCALE: 1-1/2" = 1'-0"



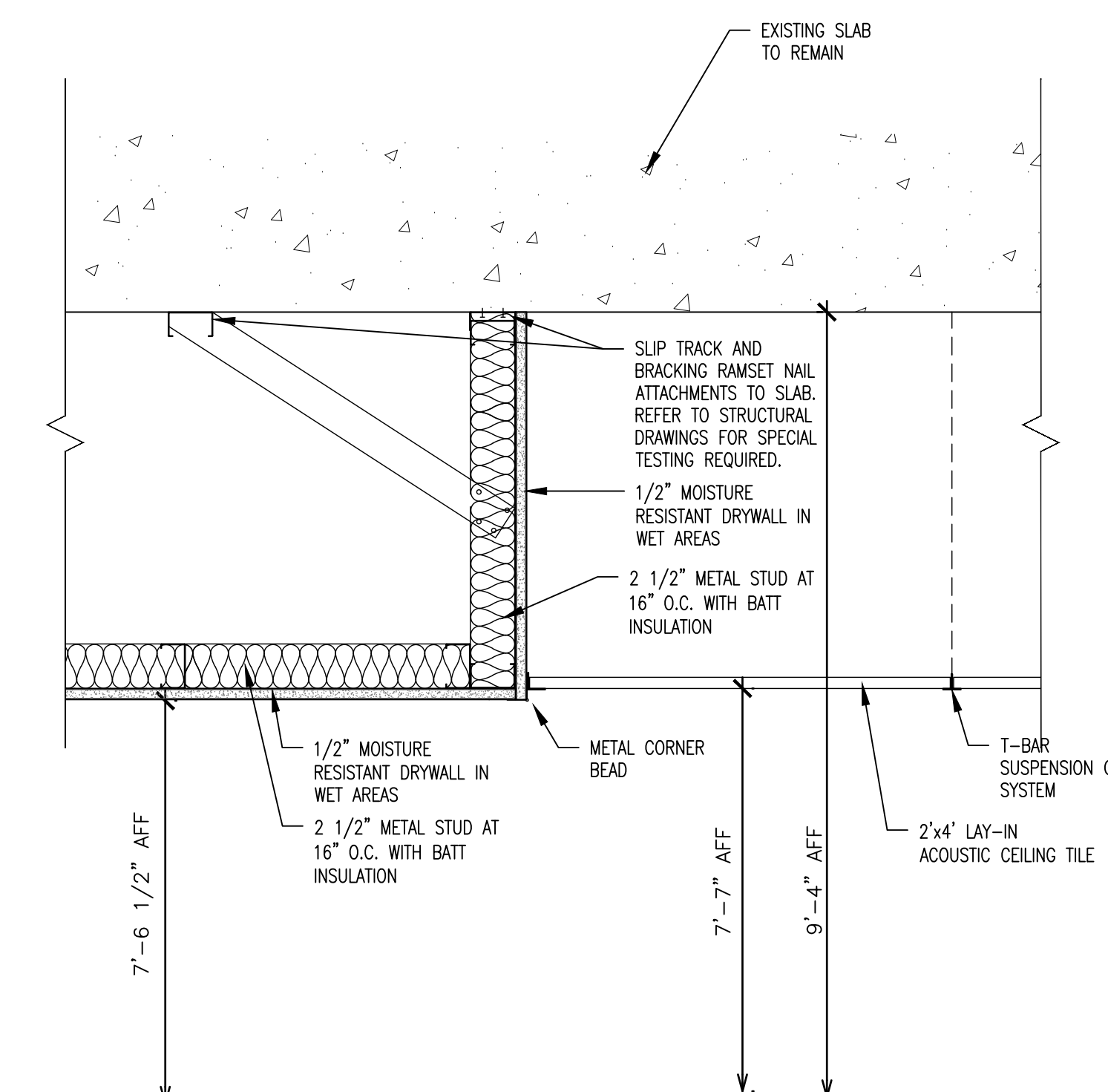
3 SOFFIT SECTION DETAIL
SCALE: 1-1/2" = 1'-0"



4 CHASE WALL DETAIL - DEMOLITION
SCALE: 1-1/2" = 1'-0"



5 WALL SECTION - UL U493
SCALE: 1-1/2" = 1'-0"

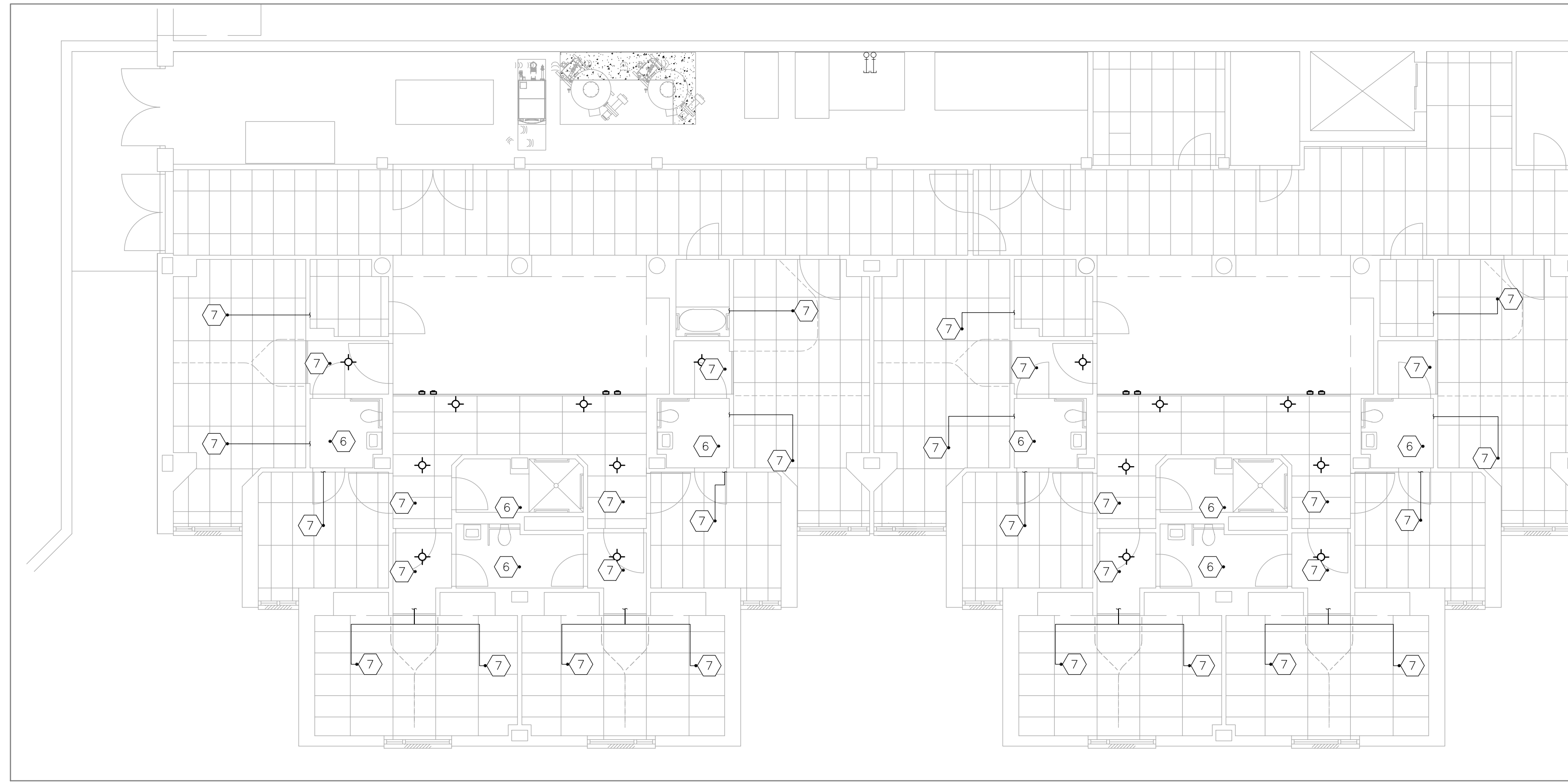


6 SOFFIT SECTION DETAIL - GYPSUM BOARD TO LAY-IN
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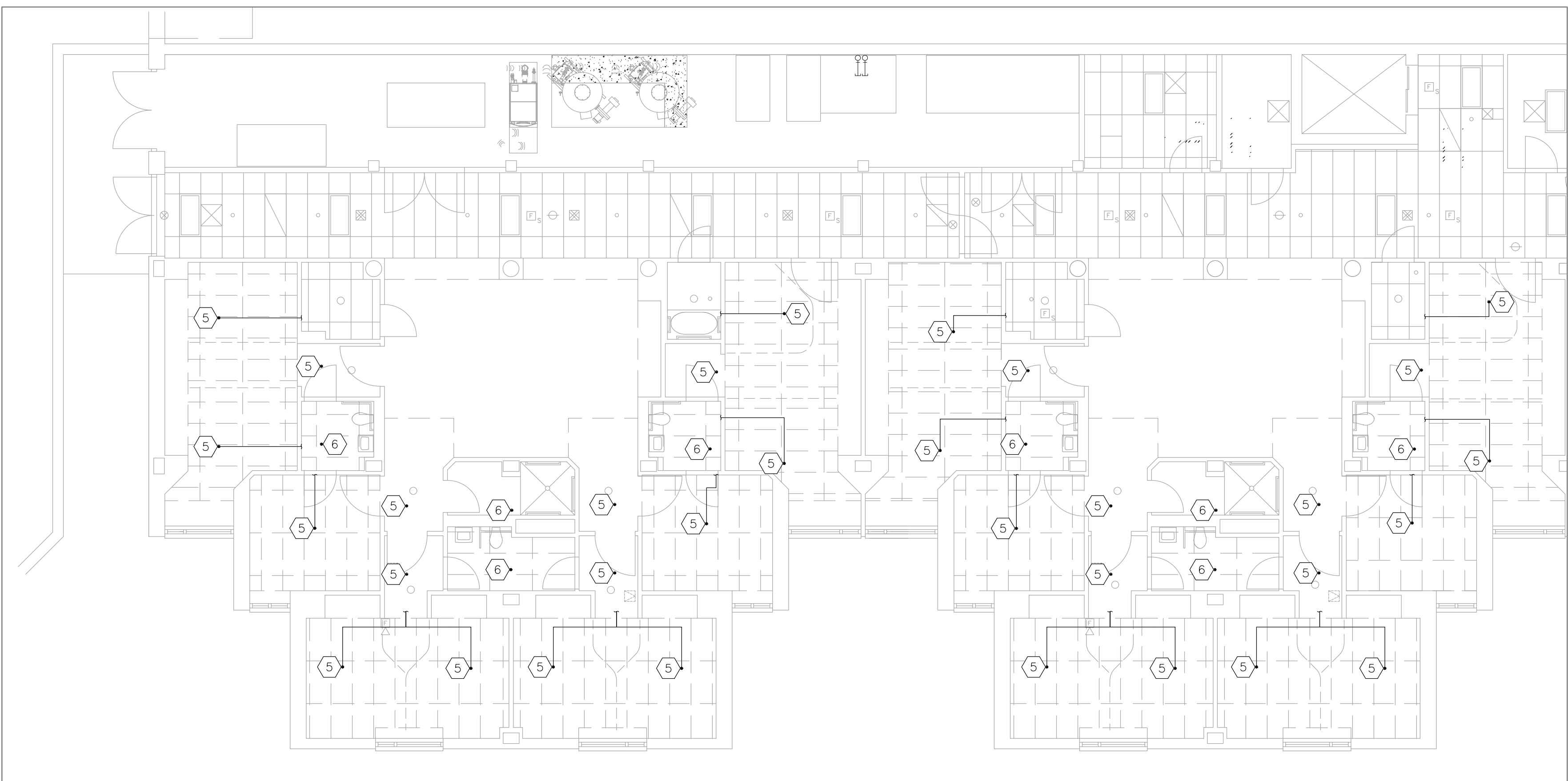
FIRE PROTECTION NOTES

 INDICATES KEYED NOTES

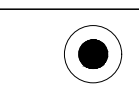
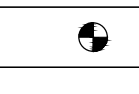

- 1 FABRICATION, INSTALLATION, AND TESTING OF ALL FIRE PROTECTION DEVICES SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (NFPA-13), NATIONAL ELECTRIC CODE (NEC) AND ALL MANUFACTURER INSTALLATION GUIDELINES.
- 2 RENOVATION DRAWINGS AND PLANS ARE FROM FIELD TAKE-OFF AND ORIGINAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING PRIOR TO BIDDING AND/OR CONSTRUCTION.
- 3 CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLISHED MATERIAL, AS WELL AS REPAIRING ANY DAMAGE TO ANY SURFACE IN THE AREA OF CONSTRUCTION THAT IS A RESULT OF CONSTRUCTION ACTIVITY. SURFACE SHALL BE REPAIRED AND FINISHED TO MATCH EXISTING CONDITIONS.
- 4 THERE ARE NO ISOLATION VALVES IN THE SPRINKLER SYSTEM. THE ENTIRE SYSTEM SHALL BE DRAINED AND FILLED EACH WORK DAY. COORDINATE WITH OWNER TO SHUT OFF FIRE ALARM SYSTEM PRIOR TO SPRINKLER SYSTEM DEMOLITION AND CONSTRUCTION ACTIVITIES. DRAIN SPRINKLER SYSTEM AS NEEDED TO COMPLETE THE WORK. AT THE END OF EACH WORK DAY, FILL SPRINKLER SYSTEM AND ENSURE FIRE ALARM SYSTEM IS ACTIVE. FIRE ALARM AND SPRINKLER SYSTEMS SHALL BE INACTIVE NO MORE THAN 8 HOURS IN A 24 HOUR PERIOD.
- 5 REMOVE AND DISPOSE OF PENDENT TYPE FIRE SPRINKLER HEAD. REMOVE AND DISPOSE OF SPRINKLER PIPE AS NEEDED, AND PROVIDE TEMPORARY CAP FOR SPRINKLER PIPE. REFER TO DETAIL 2 OF THIS SHEET FOR FIRE SPRINKLER RENOVATION NOTES.
- 6 PENDENT TYPE FIRE SPRINKLER TO REMAIN. CEILING TO BE DEMOLISHED AND GYPSUM BOARD CEILING TO BE INSTALLED AT THE SAME HEIGHT.
- 7 CEILING TO BE INSTALLED APPROXIMATELY 2 INCHES LOWER THAN PREVIOUS INSTALLATION. PROVIDE AND INSTALL NEW PENDENT TYPE FIRE SPRINKLER HEAD, ESCUTCHEON AND ALL REQUIRED PIPE. LOCATE SPRINKLER HEAD TO AVOID NEW CEILING GRID T-BAR AS NEEDED OR AS SHOWN. EXTEND PIPE AS REQUIRED TO COMPLETE THE WORK. ALL MATERIALS SHALL MATCH EXISTING FINISH AND PERFORMANCE.

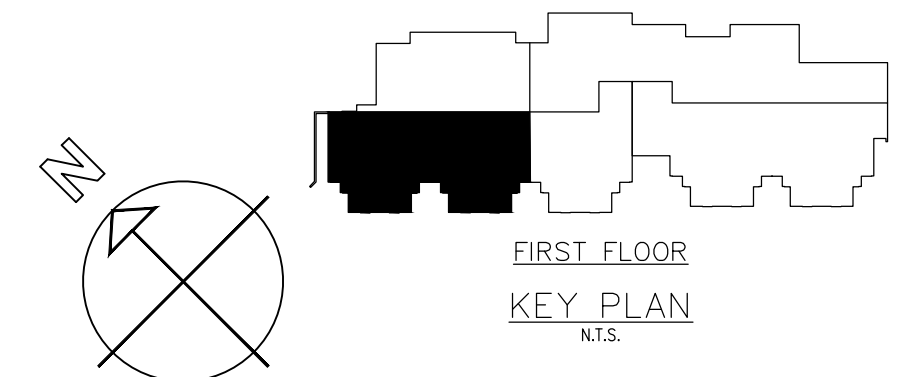


2 FIRE PROTECTION RENOVATION PLAN - 1ST FLOOR
SCALE: 1/8" = 1'-0"



1 FIRE PROTECTION DEMOLITION PLAN - 1ST FLOOR
SCALE: 1/8" = 1'-0"

FIRE PROTECTION LEGEND	
	PENDENT FIRE SPRINKLER HEAD/ESCUTCHEON
	CONNECT TO EXISTING EQUIPMENT
	SPRINKLER PIPE



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HVAC IMPROVEMENTS FOR
INFECTION CONTROL

MEXICO VETERANS
HOME
1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

REVISION: _____
DATE: _____
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ISSUE DATE: 04/11/2024

CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
CHECKED BY: TS
DESIGNED BY: TS/AH

SHEET TITLE:
FIRE PROTECTION
PLAN - 1ST FLOOR

SHEET NUMBER:

F-101

12 OF 28 SHEETS
4/11/2024



Tracie L. Siebeneck - Engineer
MO# PE-2013019114

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CAD DWG FILE: M-U2301-03
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DESIGNED BY: TS/AH

SHEET TITLE:
**PLUMBING
PLAN - 3RD FLOOR**

SHEET NUMBER:

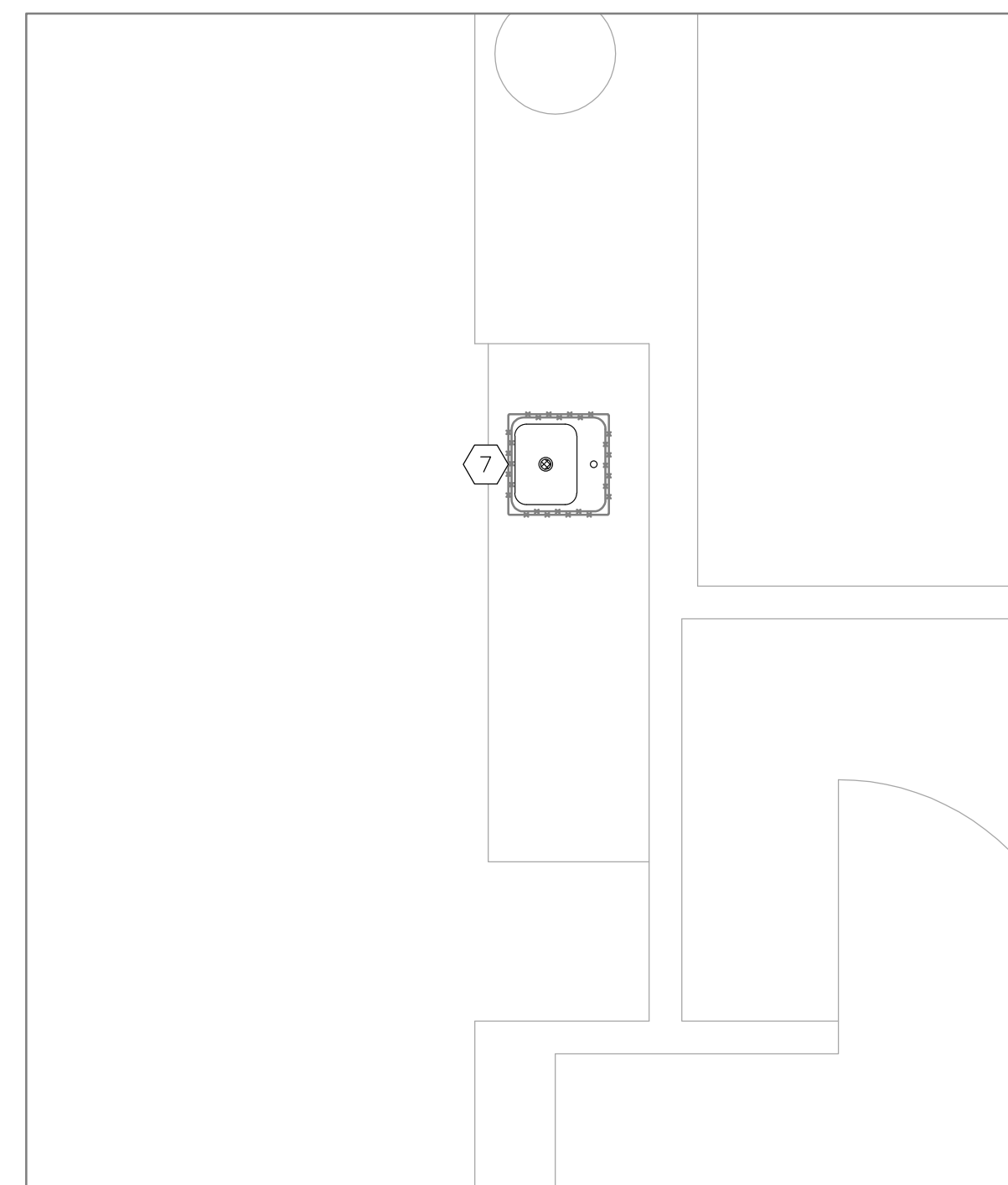
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13 OF 28 SHEETS
4/11/2024

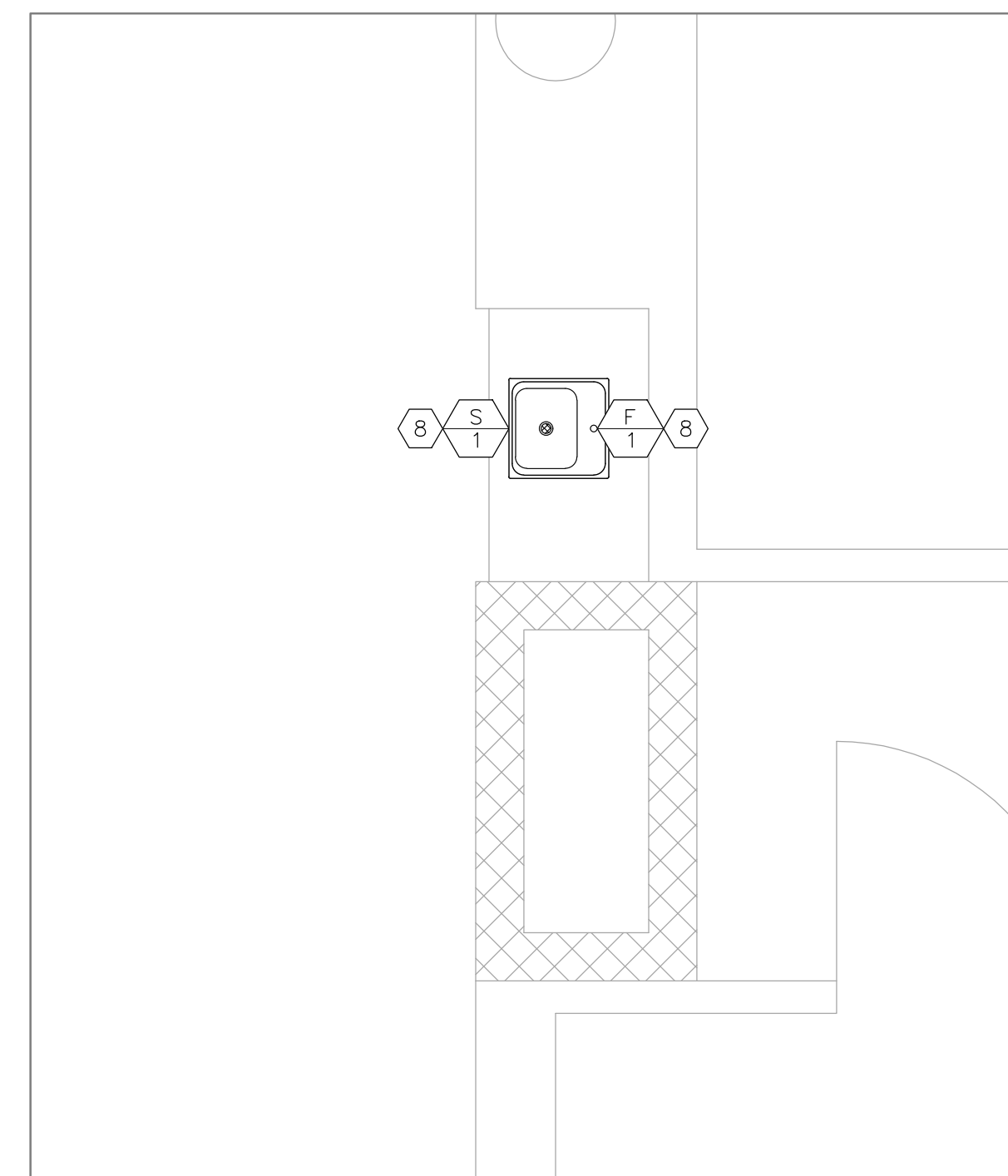
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INDICATES KEYED NOTES

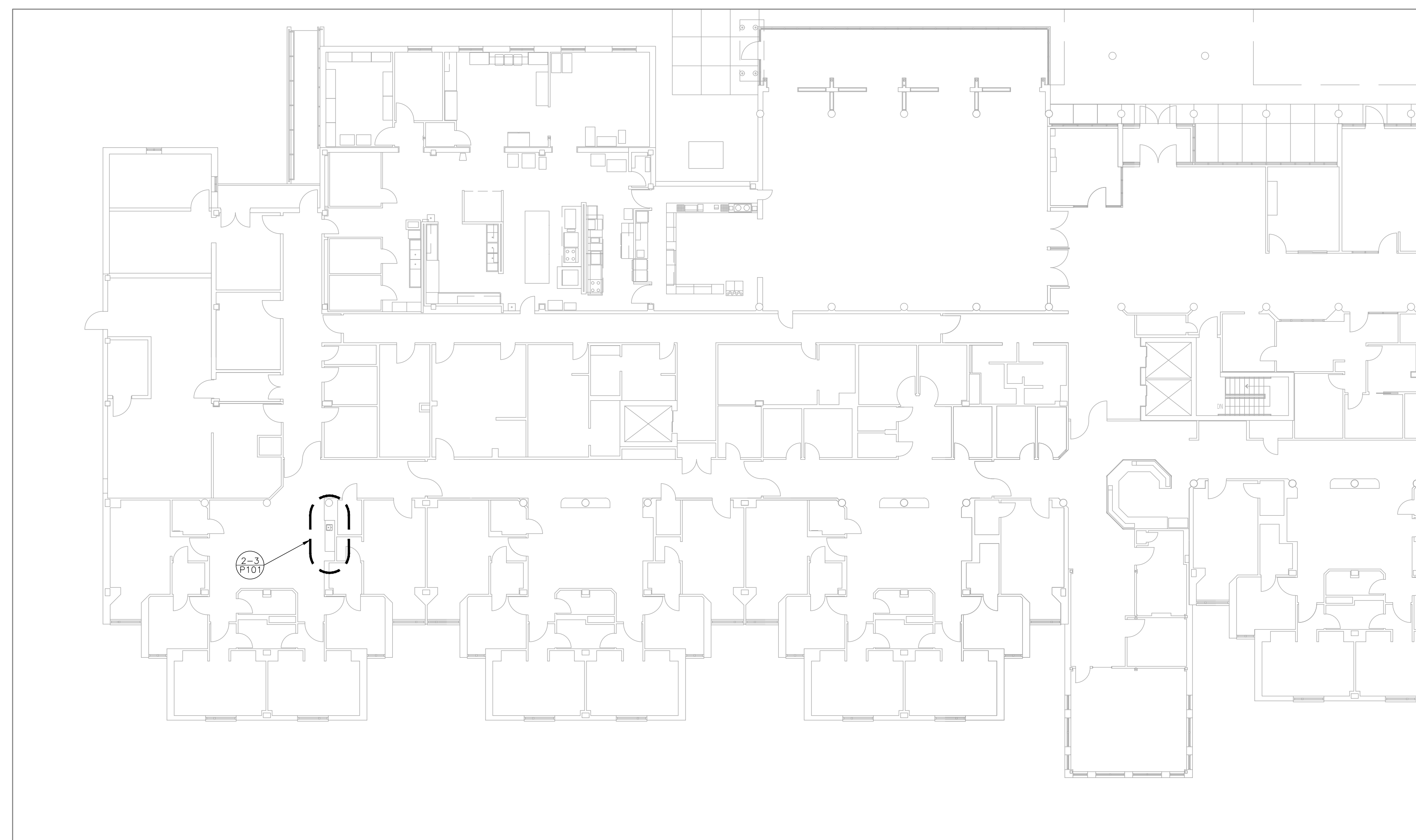
- 1 COORDINATE WITH EXISTING SYSTEMS WHICH SHALL REMAIN IN OPERATION DURING DEMOLITION AND CONSTRUCTION PHASES. INSTALL TEMPORARY CAPS AT TERMINATION POINTS OF EXISTING PIPES TO REMAIN DURING DEMOLITION PHASES.
- 2 CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY SURFACE IN THE AREA OF CONSTRUCTION THAT IS A RESULT OF CONSTRUCTION ACTIVITY. SURFACE SHALL BE REPAIRED AND FINISHED TO MATCH EXISTING CONDITIONS.
- 3 REMOVE ALL UNUSED PIPE EXCEPT AS NOTED.
- 4 FABRICATION, INSTALLATION AND TESTING OF ALL PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE INTERNATIONAL PLUMBING CODE (IPC), ANSI CONSTRUCTION STANDARDS AND ALL MANUFACTURER INSTALLATION GUIDELINES.
- 5 ALL POTABLE WATER PIPE SHALL BE TYPE M COPPER. ALL SANITARY DRAIN PIPE SHALL BE SCHEDULE 40 PVC.
- 6 PROVIDE SUITABLE SUPPORTS FOR STABILITY OF ALL PLUMBING FIXTURES, EQUIPMENT AND PIPE. FOLLOW ALL MANUFACTURER INSTALLATION RECOMMENDATIONS.
- REMOVE AND DISPOSE OF EXISTING SINK AND FAUCET. REMOVE AND DISPOSE OF ASSOCIATED PIPE FOR HOT AND COLD WATER SUPPLY AND SANITARY DRAIN.
- PROVIDE AND INSTALL SINK (S-1) AND FAUCET (F-1). PROVIDE AND INSTALL NEW SUPPLY STOPS AND RISERS AND CONNECT COLD AND HOT WATER SUPPLY AND DRAIN TO EXISTING.



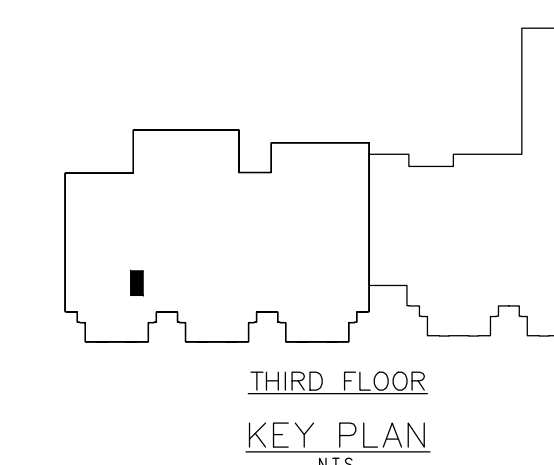
2 3RD FLOOR KITCHENETTE DEMOLITION
SCALE: 1/2" = 1'-0"



3 3RD FLOOR KITCHENETTE RENOVATION
SCALE: 1/2" = 1'-0"



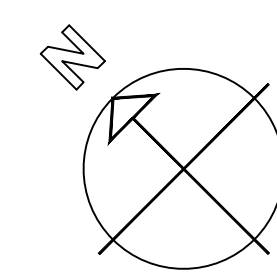
1 MEXICO VETERANS HOME FLOOR PLAN - 3RD FLOOR
SCALE: 1/16" = 1'-0"



PLUMBING LEGEND	
	DEVICE SCHEDULE TAG
	DETAIL REFERENCE, NUMBER/SHEET
	PLUMBING FIXTURE - NEW
	MATERIALS TO BE REMOVED

SINK SCHEDULE					
MARK	MANUFACTURER	SINK MODEL	DIMENSIONS	DESCRIPTION	NOTES
S-1	ELKAY	BLR150C	15"x15"x7-1/8" 2" DRAIN	MOUNTING TYPE: DROP-IN COUNTER MOUNTED; MATERIAL: 18 GAUGE 304 STAINLESS STEEL; FINISH: LUSTROUS SATIN; BOWL: 12"x 9-1/4"x 7-1/8" SINGLE BOWL; SOUND DEADENING: BOTTOM ONLY PADS	1,2
NOTES					
1	PROVIDE LK36, 2 INCH DRAIN WITH STAINLESS STEEL STRAINER				
2	PROVIDE 20 GAUGE BRASS TUBULAR 1-1/4" P-TRAP WITHOUT CLEANOUT BY DEARBORN BRASS OR EQUAL, CHROME FINISH				

FAUCET SCHEDULE					
MARK	MANUFACTURER	MODEL	CONNECTIONS	DESCRIPTION	NOTES
F-1	ELKAY	LKD2223C	3/8" HOT/COLD	TYPE: DECK MOUNT, GOOSE NECK SPOUT, 13" HEIGHT, 360° SWING; FINISH: CHROME; CONSTRUCTION: SOLID BRASS; 2.6" LEVER HANDLES; VALVE: 1/4 TURN CERAMIC DISC	1
NOTES					
1	PROVIDE STAINLESS STEEL WATER SUPPLY CONNECTORS AND MULTI-TURN ANGLE STOPS				



GENERAL DEMOLITION NOTES

- DEMOLITION DRAWINGS AND PLANS ARE FROM FIELD TAKE-OFF AND ORIGINAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING PRIOR TO BIDDING AND/OR CONSTRUCTION.
- COVER ALL OPENINGS INTO THE BUILDING FROM THE WORK AREA. ENSURE DEBRIS IS REMOVED FROM THE CONSTRUCTION AND DEMOLITION AREA AND AIR BORN DEBRIS IS NOT ALLOWED TO TRAVEL TO THE REMAINDER OF THE BUILDING. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLISHED MATERIAL.
- COORDINATE WITH EXISTING SYSTEMS WHICH SHALL REMAIN IN OPERATION DURING DEMOLITION AND CONSTRUCTION PHASES. INSTALL TEMPORARY CAPS AT TERMINATION POINTS OF EXISTING DUCTWORK/PIPES TO REMAIN DURING DEMOLITION PHASES.
- UNLESS NOTED OTHERWISE ALL AIR DEVICES REMOVED WITH SUSPENDED CEILING DEMOLITION AND RENOVATION ARE TO BE RETAINED AND PLACED IN THE SAME OR COMPARABLE LOCATION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY SURFACE IN THE AREA OF CONSTRUCTION THAT IS A RESULT OF CONSTRUCTION ACTIVITY. SURFACE SHALL BE REPAIRED AND FINISHED TO MATCH EXISTING CONDITIONS.

DEMOLITION KEY NOTES

(N) INDICATES KEYED NOTES

- REMOVE AND DISPOSE OF CONDENSATE DRAIN PIPE AS SHOWN OR AS NEEDED TO COMPLETE THE WORK.
- CREATE PENETRATION FOR OUTDOOR AIR DUCT CHASE FROM MAKE-UP AIR UNIT (MAU) LOCATED ON ROOF. REFERENCE SHEET M-104 FOR DUCT SIZE.
- CREATE PENETRATION IN WALL TO ALLOW PATHS FOR DUCT/AIR DEVICES. REFERENCE SHEET M-104 FOR DUCT/AIR DEVICE SIZE.
- REMOVE AND DISPOSE OF DUCT AS SHOWN OR AS NEEDED TO COMPLETE THE WORK.
- REMOVE AND RETAIN AIR DEVICE AND ASSOCIATED FLEXIBLE DUCT FOR USE IN NEW CONSTRUCTION.
- REMOVE AND RETAIN RETURN AIR DEVICE FOR USE IN NEW CONSTRUCTION.
- REMOVE AND DISPOSE OF EXHAUST GRILLE. COORDINATE WITH GENERAL CONTRACTOR TO PATCH WALL TO MATCH EXISTING PERFORMANCE AND FINISH.
- REMOVE AND DISPOSE OF CEILING MOUNTED EXHAUST GRILLE. PROVIDE AND INSTALL NEW CEILING TILE.
- REMOVE AND RETAIN HIGH EFFICIENCY TAKE-OFF AND DUCT SCRUBBER FOR USE IN NEW CONSTRUCTION. REMOVE AND DISPOSE OF RECTANGULAR DUCT AS SHOWN.
- REFER TO ARCHITECTURAL PLANS FOR WINDOW MODIFICATION.
- PATCH DUCT AND PROVIDE INSULATION TO MATCH EXISTING.



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HVAC IMPROVEMENTS FOR
INFECTON CONTROL

MEXICO VETERANS
HOME
1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

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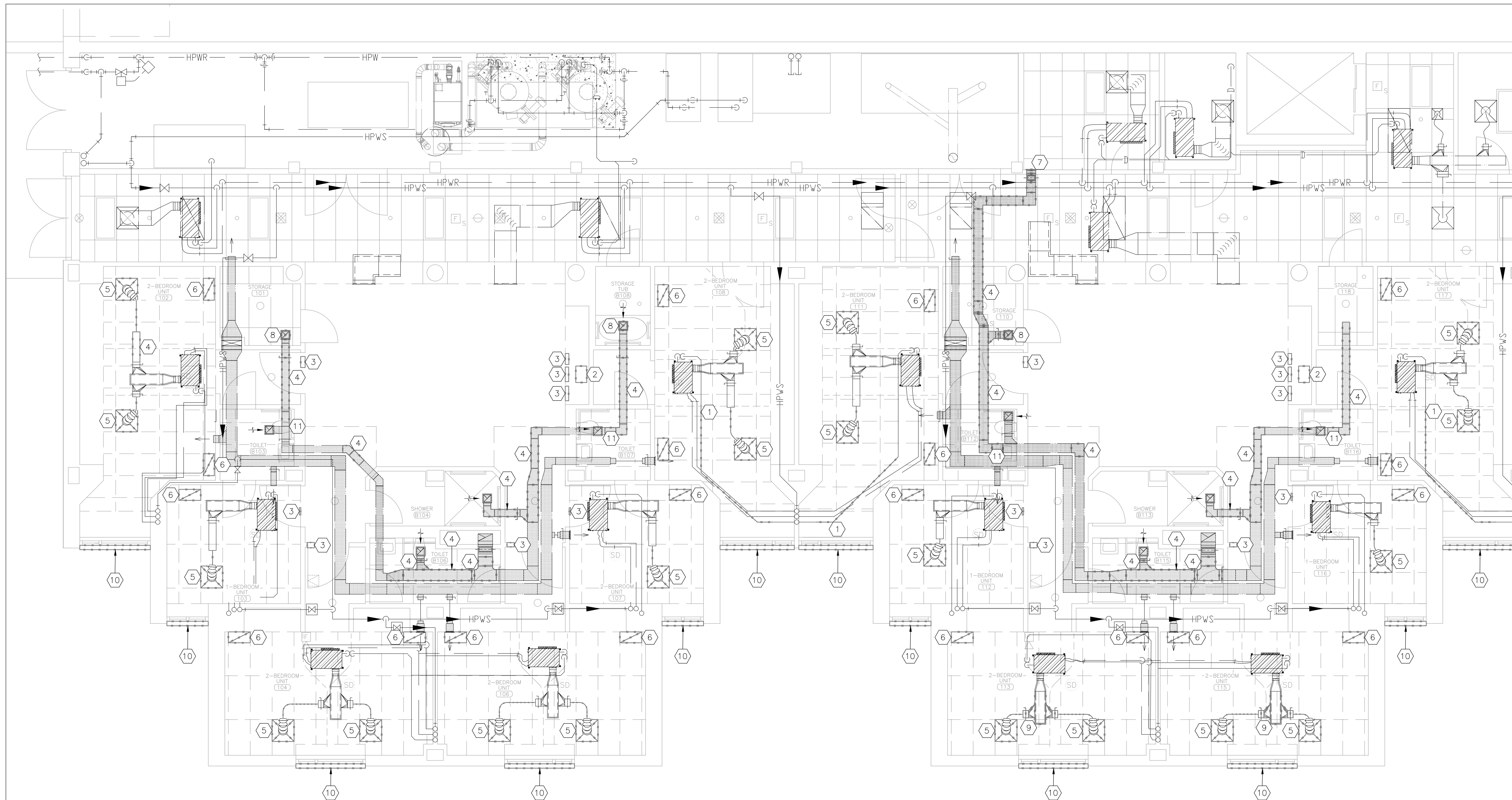
CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
CHECKED BY: TS
DESIGNED BY: TS/AH

SHEET TITLE:
MECHANICAL
DEMOLITION PLAN -
1ST FLOOR

SHEET NUMBER:

M-101

14 OF 28 SHEETS
4/11/2024



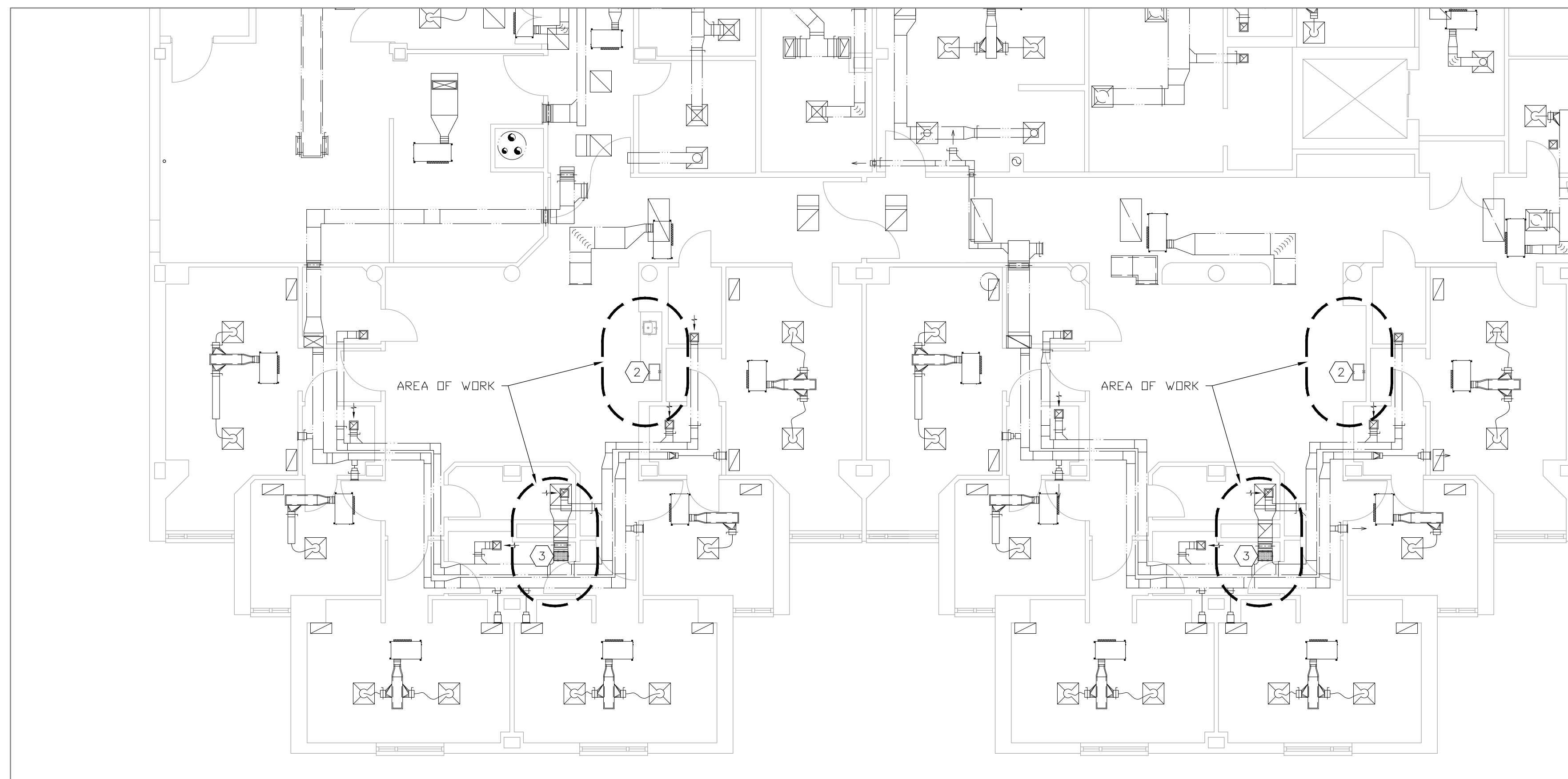
HVAC LEGEND	
(●)	PENDENT FIRE SPRINKLER HEAD/ESCUTCHEON
(SD)	SMOKE DETECTOR
(---)	HVAC EQUIPMENT - EXISTING
(---)	SUPPLY AIR - EXISTING
(---)	RETURN AIR - EXISTING
(---)	EXHAUST AIR - EXISTING
(---)	OUTSIDE AIR - EXISTING
(---)	SPRINKLER PIPE - EXISTING
(---)	CONDENSER WATER RETURN - EXISTING
(---)	CONDENSER WATER SUPPLY - EXISTING
(---)	CONDENSATE DRAIN PIPE - EXISTING
(---)	MATERIALS TO BE REMOVED

1 MECHANICAL DEMOLITION PLAN - 1ST FLOOR
SCALE: 3/16" = 1'-0"

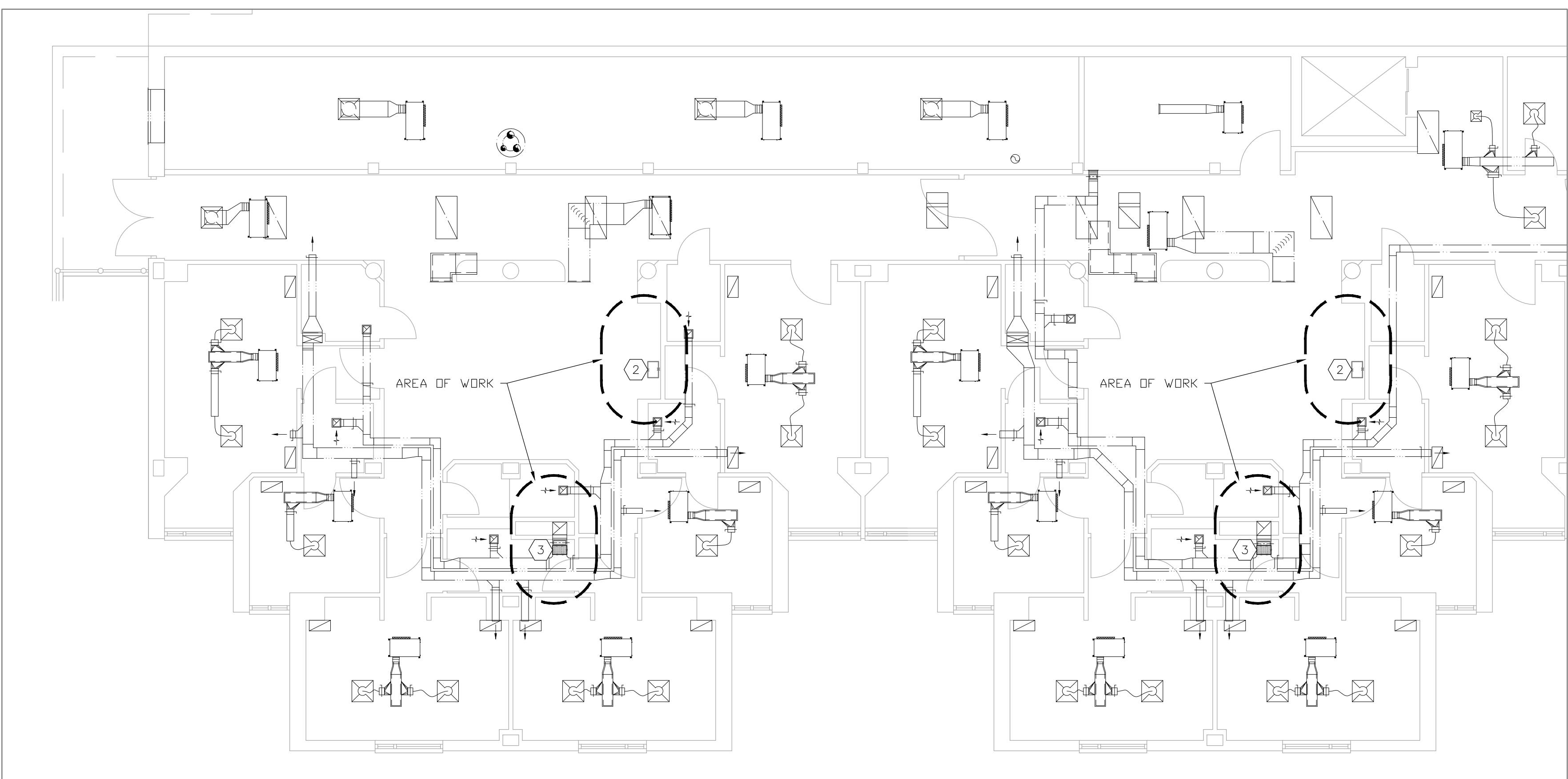
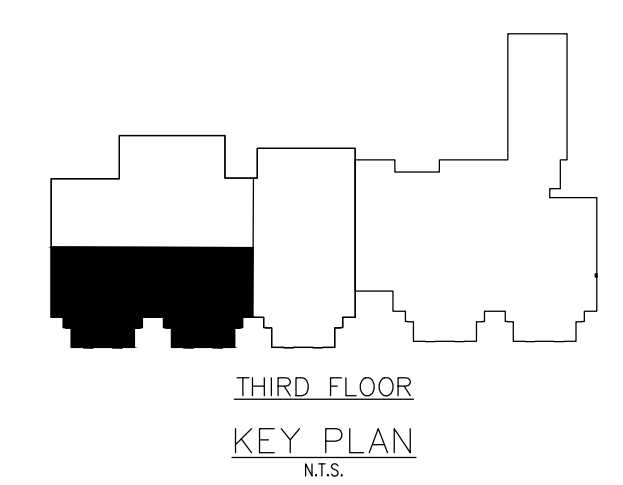
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INDICATES KEYED NOTES

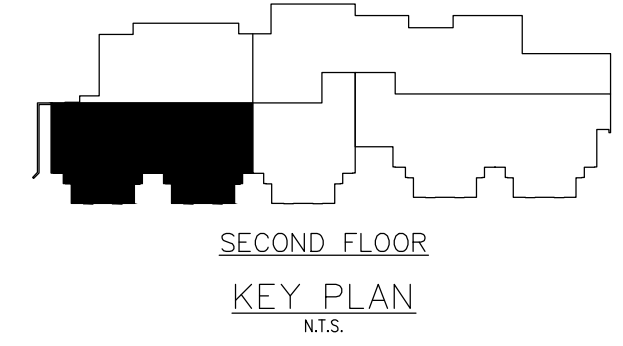
- 1 REFERENCE SHEET M-101 FOR GENERAL DEMOLITION NOTES.
- 2 SAWCUT CONCRETE FLOOR SLAB TO CREATE PENETRATION FOR MAKE-UP AIR DUCT. REFER TO SHEET M-106 FOR DUCT SIZE. REFER TO FRAMING PLAN S-151 FOR ADDITIONAL INFORMATION.
- 3 REMOVE DUCT AS SHOWN OR AS NEEDED FOR INSTALLATION OF BACKDRAFT DAMPER (BD-1).



2 MECHANICAL DEMOLITION PLAN - 3RD FLOOR
SCALE: 1/8" = 1'-0"



1 MECHANICAL DEMOLITION PLAN - 2ND FLOOR
SCALE: 1/8" = 1'-0"



HVAC LEGEND	
	HVAC EQUIPMENT - EXISTING
	SUPPLY AIR - EXISTING
	RETURN AIR - EXISTING
	EXHAUST AIR - EXISTING
	OUTSIDE AIR - EXISTING
	MATERIALS TO BE REMOVED



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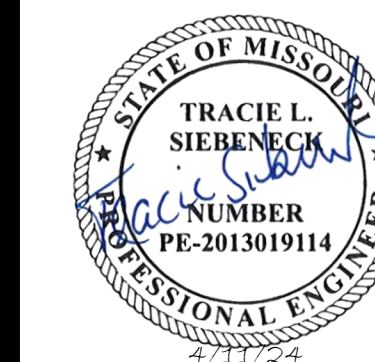
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DESIGNED BY: TS/AH

SHEET TITLE:
**MECHANICAL
DEMOLITION PLAN -
2ND & 3RD FLOORS**

SHEET NUMBER:

M-102

15 OF 28 SHEETS
4/11/2024



Tracie L. Siebeneck - Engineer
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ISSUE DATE: 04/11/2024

CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
CHECKED BY: TS
DESIGNED BY: TS/AH

SHEET TITLE:
**MECHANICAL
DEMOLITION PLAN -
ROOF**

SHEET NUMBER:

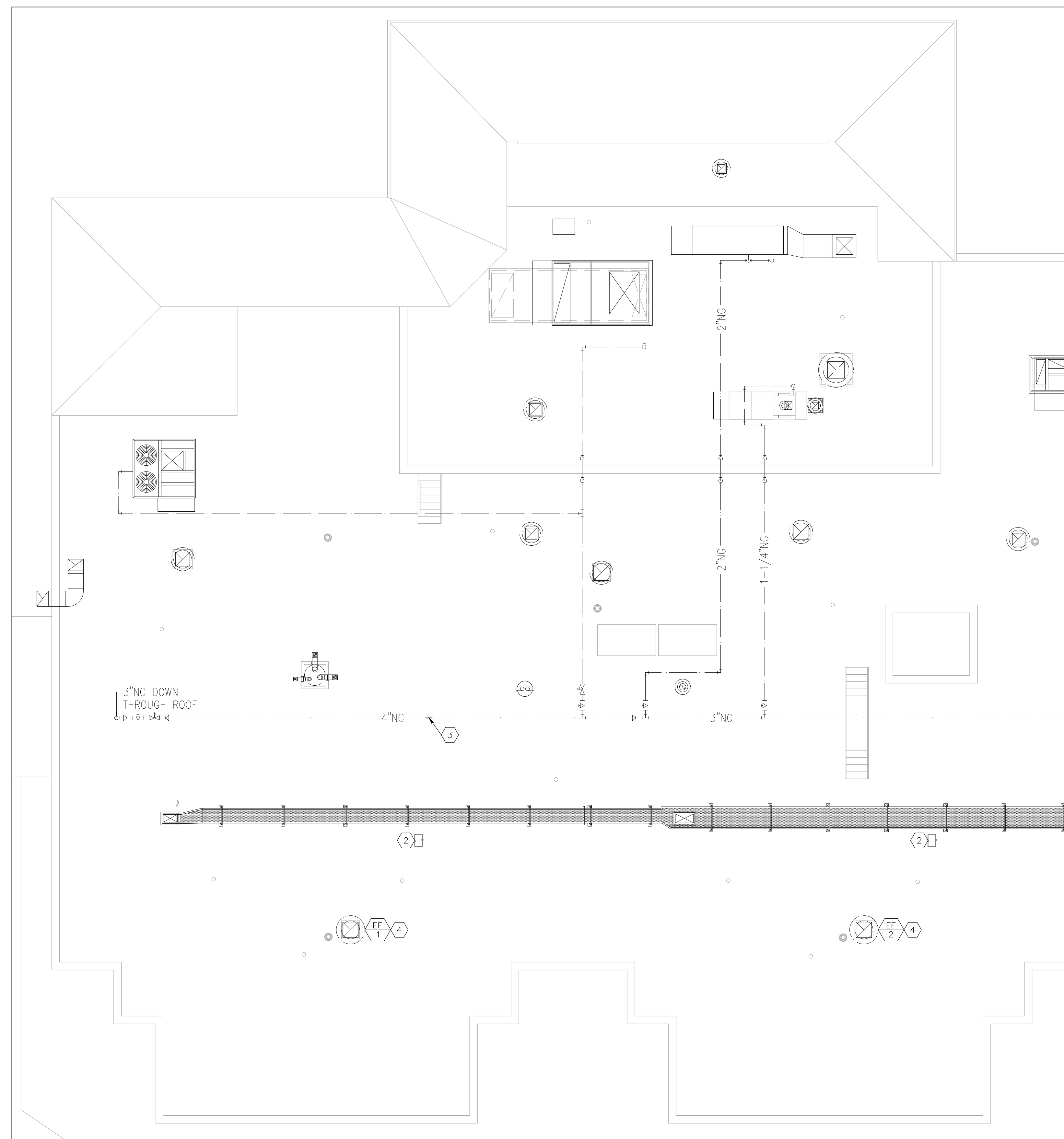
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4/11/2024

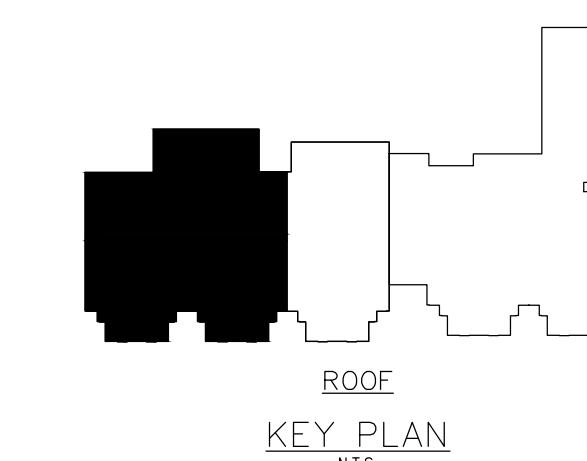
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INDICATES KEYED NOTES

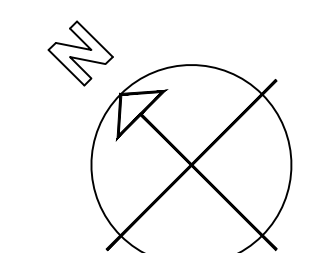
- 1 REFERENCE SHEET M-101 FOR GENERAL DEMOLITION NOTES.
- 2 SAWCUT CONCRETE ROOF SLAB TO CREATE PENETRATION FOR MAKE-UP AIR DUCT. REFER TO SHEET M-107 FOR DUCT SIZE. REFER TO FRAMING PLAN S-151 FOR ADDITIONAL INFORMATION.
- 3 PREPARE NATURAL GAS PIPE FOR INSTALLATION OF GAS PIPE FOR NEW MAKE-UP AIR UNITS. REFER TO SHEET M-107 FOR PIPE SIZE AND ROUTE TO NEW EQUIPMENT. COORDINATE WITH OWNER FOR ANY REQUIRED SHUTDOWN OF HEATING SYSTEM. SHUTDOWN TIME SHOULD BE LIMITED AS MUCH AS PRACTICAL.
- 4 TEST AND BALANCING CONTRACTOR SHALL MEASURE EXHAUST FAN AIRFLOW PRIOR TO DEMOLITION ACTIVITIES AND PREPARE A REPORT TO BE SUBMITTED TO THE ENGINEER FOR REVIEW. AT A MINIMUM, THE REPORT SHALL INCLUDE FAN MAKE AND MODEL NUMBER, INSTALLED DRIVE, AND ELECTRICAL CHARACTERISTICS AS WELL AS MEASURED STATIC PRESSURE AND AIRFLOW RATE. TEST SHALL BE REPEATED AND FAN SHALL BE ADJUSTED AFTER CONSTRUCTION ACTIVITIES TO ENSURE EXISTING CONDITIONS ARE MAINTAINED. DESIGN AIRFLOW: EF-1: 1950 CFM; EF-2: 2088 CFM



HVAC LEGEND	
	HVAC EQUIPMENT - EXISTING
	SUPPLY AIR - EXISTING
	RETURN AIR - EXISTING
	EXHAUST AIR - EXISTING
	MATERIALS TO BE REMOVED



1 MECHANICAL DEMOLITION PLAN - ROOF
SCALE: 1/8" = 1'-0"



GENERAL RENOVATION NOTES

- FABRICATION, INSTALLATION AND TESTING OF ALL HVAC SYSTEMS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF THE INTERNATIONAL MECHANICAL CODE (IMC), NATIONAL ELECTRIC CODE (NEC), AND ALL MANUFACTURER INSTALLATION GUIDELINES.
- ALL METALLIC AND FLEXIBLE DUCTS SHALL BE CONSTRUCTED AND INSTALLED AS SPECIFIED IN THE IMC AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- DUCT HAS BEEN DESIGNED TO FIT IN THE SPACE AVAILABLE AND TO AVOID CONFLICTS. CONTRACTOR SHALL FIELD VERIFY FOR ANY UNFORESEEN CONFLICTS PRIOR TO FABRICATING DUCT. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES TO ENSURE ADEQUATE SPACE IS AVAILABLE FOR DUCT. DESIGN INSULATION THICKNESS IS 1.5 INCH.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LINE VOLTAGE WIRING AND CONDUIT. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING FOR MECHANICAL SYSTEMS. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT FOR LOW VOLTAGE WIRING.
- THIRD PARTY, AABC OR NEBB CERTIFIED TESTING, ADJUSTING, AND BALANCING CONTRACTOR SHALL TEST AND BALANCE ALL SYSTEMS TO SPECIFIED VALUES AND PREPARE A BALANCE REPORT PER ASHRAE STANDARD 111 OR EQUAL. REPORT SHALL BE SENT TO THE ENGINEER FOR APPROVAL PRIOR TO FINAL COMPLETION. BALANCE DAMPERS ARE REQUIRED ON ALL SUPPLY AIR DEVICES. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL DUCTWORK WITH TWO DIMENSION <wxd> INDICATES RECTANGULAR DUCT. ALL <Dø> INDICATES ROUND DUCT. DIMENSIONS ARE INCHES MEASURED INSIDE. PROVIDE STANDARD TURNING VANES OR CURVED ELBOW WITH SQUARE THROAT ON RECTANGULAR DUCTS. ROUND DUCT SHALL MAINTAIN A CENTERLINE TURNING RADIUS OF 1.5 X DUCT DIAMETER. FLEXIBLE DUCT SHALL BE 5 FEET MAXIMUM LENGTH AND BE SUPPORTED TO MINIMIZE STATIC PRESSURE DROP.

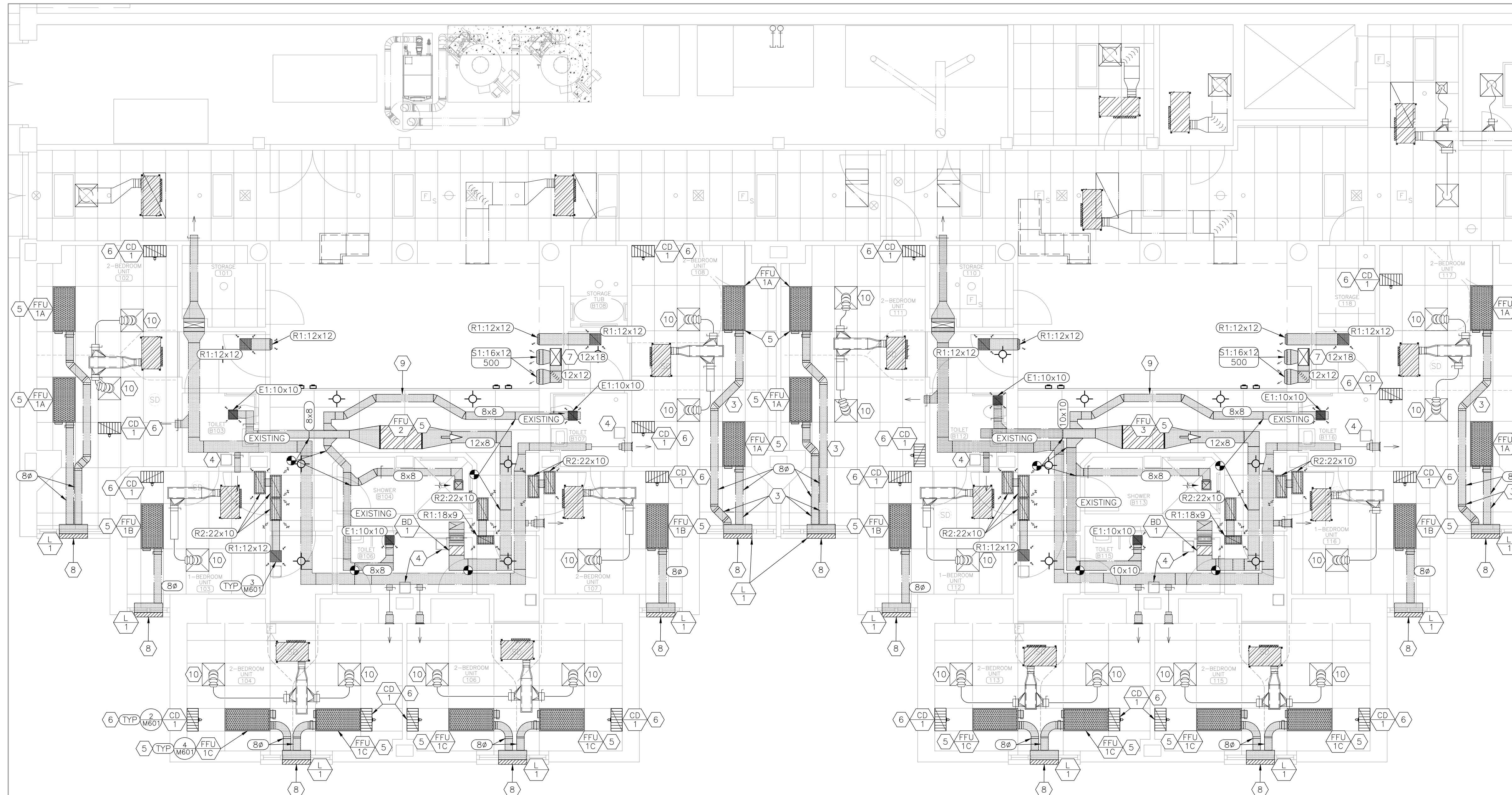
GENERAL RENOVATION NOTES CONTINUED

- ALL INSULATION SHALL MEET THE ASTM E 84 FLAME/SMOKE SPREAD INDEX OF 25/50 MAXIMUM. DUCT SEAMS SHALL BE SEALED. THERMAL CONDUCTIVITY VALUES PROVIDED BELOW ARE "AS INSTALLED" VALUES:
 - CONCEALED OUTDOOR AIR DUCT LOCATED INSIDE: EXTERNAL INSULATION; 2 INCH THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.25 BTU-IN/HR/SF/F (R6) WITH VAPOR BARRIER.
 - OUTSIDE AIR DUCT LOCATED OUTSIDE: EXTERNAL INSULATION; 3 INCHES THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.27 BTU-IN/HR/SF/F (R8) WITH VAPOR BARRIER. ALUMINUM JACKET: SMOOTH 0.016 INCH THICK.
 - EXHAUST AIR DUCT SERVING FAN FILTER UNITS (FFU-1A, 1B, 1C) AND EXHAUST LOUVER PLENUM: EXTERNAL INSULATION; 1-1/2 INCH THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.25 BTU-IN/HR/SF/F (R4.5) WITH VAPOR BARRIER.
- PROVIDE SUITABLE SUPPORTS FOR STABILITY OF ALL HVAC DEVICES AND DUCT. AIR HANDLING EQUIPMENT SHALL BE PROVIDED WITH FLEXIBLE SUPPLY AND RETURN AIR DUCT CONNECTORS AT UNITS. HORIZONTAL UNITS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE THE UNIT USING UNI-STRUT OR EQUAL. COORDINATE WITH GENERAL CONTRACTOR AND REFER TO KEY NOTES FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A TRAPPED CONDENSATE DRAIN PIPE FOR ALL EVAPORATORS. SLOPE IN THE DIRECTION OF DISCHARGE A MINIMUM OF 1/8" PER FOOT. COORDINATE CONDENSATE DRAIN DISCHARGE LOCATION WITH ROOF DRAIN LOCATION.
 - MAU: CONDENSATE PIPE SHALL BE 0.75 INCH INSIDE DIAMETER SCHEDULE 40 PVC.
 - EXISTING HEAT PUMPS: CONDENSATE PIPE SHALL BE 1 INCH INSIDE DIAMETER TYPE M COPPER WITH 1/2 INCH FIBER GLASS INSULATION.
- ANY EXHAUST AIR DISCHARGE SHALL BE 3 FEET HIGHER THAN ANY INTAKE OPENING WITHIN 10 HORIZONTAL FEET.

RENOVATION NOTES

INDICATES KEYED NOTES

- INSTALL ALL TRANSFER GRILLES AS SHOWN IN DETAIL 3 ON SHEET M-601.
- COORDINATE FFU, AIR DEVICE, AND DUCT LOCATIONS WITH SHEET M-105.
- COORDINATE DUCT ELEVATION WITH NEW CONDENSATE DRAIN PIPE AND EXISTING CONDENSER PIPE HEIGHTS. REFER TO SHEET M-105.
- GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL AIRTIGHT/WATERTIGHT ACCESS DOOR FOR EXISTING BALANCE DAMPER(S). PROVIDE GENERAL CONTRACTOR WITH FINAL ACCESS DOOR LOCATION TO ALLOW FOR OPTIMAL ACCESS TO DAMPER OPERATOR.
- COORDINATE WITH GENERAL CONTRACTOR FOR GROUND PENETRATING RADAR OR OTHER APPROVED NON-DESTRUCTIVE METHOD TO BE PERFORMED ON THE CONCRETE SLAB PRIOR TO HANGING THE FAN FILTER UNIT (FFU). FFU SHALL BE SUPPORTED FROM THE CONCRETE SLAB USING UNISTRUT OR EQUAL. THE ANCHORS SHALL BE PLACED A MINIMUM OF 1-1/2 INCHES FROM ANY EXISTING REINFORCING BARS. REFER TO DETAIL 4 OF SHEET M-601. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- INSTALL CONTROL DAMPER (CD-1) ON RETAINED RETURN GRILLE PER DETAIL 2, SHEET M-601. INSTALL DAMPER/GRILLE ASSEMBLY AS SHOWN. COORDINATE FINAL LOCATION WITH EXISTING CONDITIONS TO ENSURE ADEQUATE SPACE FOR ASSEMBLY AND AIR MOVEMENT.
- OUTDOOR AIR DUCT FROM MAKE-UP AIR UNIT (MAU) LOCATED ON ROOF.
- COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE AND INSTALL LOUVER IN EACH TRANSOM WINDOW. PROVIDE AND INSTALL INSULATED DUCT BOX AROUND LOUVER. ROUTE EXHAUST DUCT FROM THE FFU(S) LOCATED IN ROOM AS SHOWN.
- CONTRACTOR SHALL ROUTE DUCT SUCH THAT THERE IS ROOM TO PROVIDE SERVICE TO THE FAN FILTER UNIT (FFU) PER THE MANUFACTURER'S INSTRUCTIONS.
- INSTALL RETAINED SUPPLY AIR DEVICE AS SHOWN. WHERE POSSIBLE USE RETAINED FLEXIBLE DUCT. PROVIDE AND INSTALL NEW 8 INCH FLEXIBLE DUCT WHERE APPLICABLE.
- TAB CONTRACTOR SHALL PERFORM BLOWER DOOR TESTING AFTER BEDROOM WALLS ARE SEALED AND BEFORE GRID CEILING IS INSTALLED TO ENSURE EACH ROOM IS COMPLETELY SEALED. REFER TO GENERAL CONSTRUCTION NOTE 2 ON SHEET G-002 FOR ADDITIONAL INFORMATION. AFTER CONSTRUCTION IS COMPLETE, TAB CONTRACTOR SHALL BALANCE SYSTEM SO THAT THERE IS NEGATIVE PRESSURE RELATIONSHIP FROM THE LIVING ROOM TO EACH BEDROOM OF -0.01 IN WG (MINIMUM). ENSURE BUILDING IS NOT NEGATIVE RELATIVE TO OUTSIDE. ADJUST EACH SYSTEM INDEPENDENTLY AND CONFIRM RESULTS WITH BOTH IN OPERATION AT THE SAME TIME. EACH SYSTEM CONSISTS OF ONE MAKE-UP AIR UNIT (MAU-6 AND MAU-7) AND ALL THE FAN FILTER UNITS IN BEDROOMS THAT COMMUNICATE WITH THE LIVING ROOM. SEE SEQUENCE OF OPERATION ON SHEET M-602 AND SECTION 230593 FOR ADDITIONAL INFORMATION. CONFIRM WITH ENGINEER FOR ANY REQUIRED CLARIFICATION PRIOR TO TAB ACTIVITIES.



HVAC LEGEND	
	CONNECT TO EXISTING EQUIPMENT
	DIRECTION OF FLOW
	DEVICE SCHEDULE TAG
	DETAIL REFERENCE, NUMBER/SHEET
	TYPICAL INSTALLATION
	AIR DEVICE: NECK SIZE (INCHES)/CFM
	RETURN AIR DEVICE: SIZE (INCHES)
	EXISTING DUCT TO REMAIN
	DUCT SIZE-RECTANGULAR (INCHES X INCHES)
	DUCT SIZE-ROUND (INCHES DIAMETER)
	HVAC EQUIPMENT - NEW
	SUPPLY AIR
	EXHAUST AIR
	OUTSIDE AIR
	HVAC EQUIPMENT - EXISTING
	SUPPLY AIR - EXISTING
	RETURN AIR - EXISTING
	EXHAUST AIR - EXISTING
	OUTSIDE AIR - EXISTING

1 MECHANICAL RENOVATION PLAN - PARTIAL 1ST FLOOR
SCALE: 3/16" = 1'-0"



Tracie L. Siebencek - Engineer
MO# PE-2013019114

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MISSOURI VETERANS
COMMISSION

HVAC IMPROVEMENTS FOR
INFECTON CONTROL

MEXICO VETERANS
HOME
1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 04/11/2024

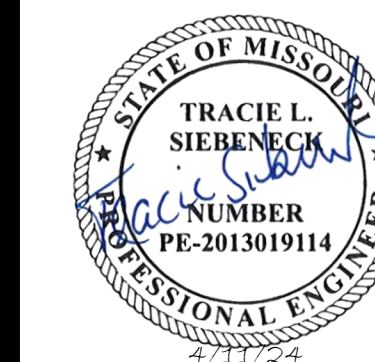
CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
CHECKED BY: TS
DESIGNED BY: TS/AH

SHEET TITLE:
MECHANICAL
RENOVATION PLAN -
PARTIAL 1ST FLOOR

SHEET NUMBER:

M-104

17 OF 28 SHEETS
4/11/2024



Tracie L. Siebeneck - Engineer
MO# PE-2013019114

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CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
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DESIGNED BY: TS/AH

SHEET TITLE:
**MECHANICAL
RENOVATION PLAN -
PARTIAL 1ST FLOOR**

SHEET NUMBER:

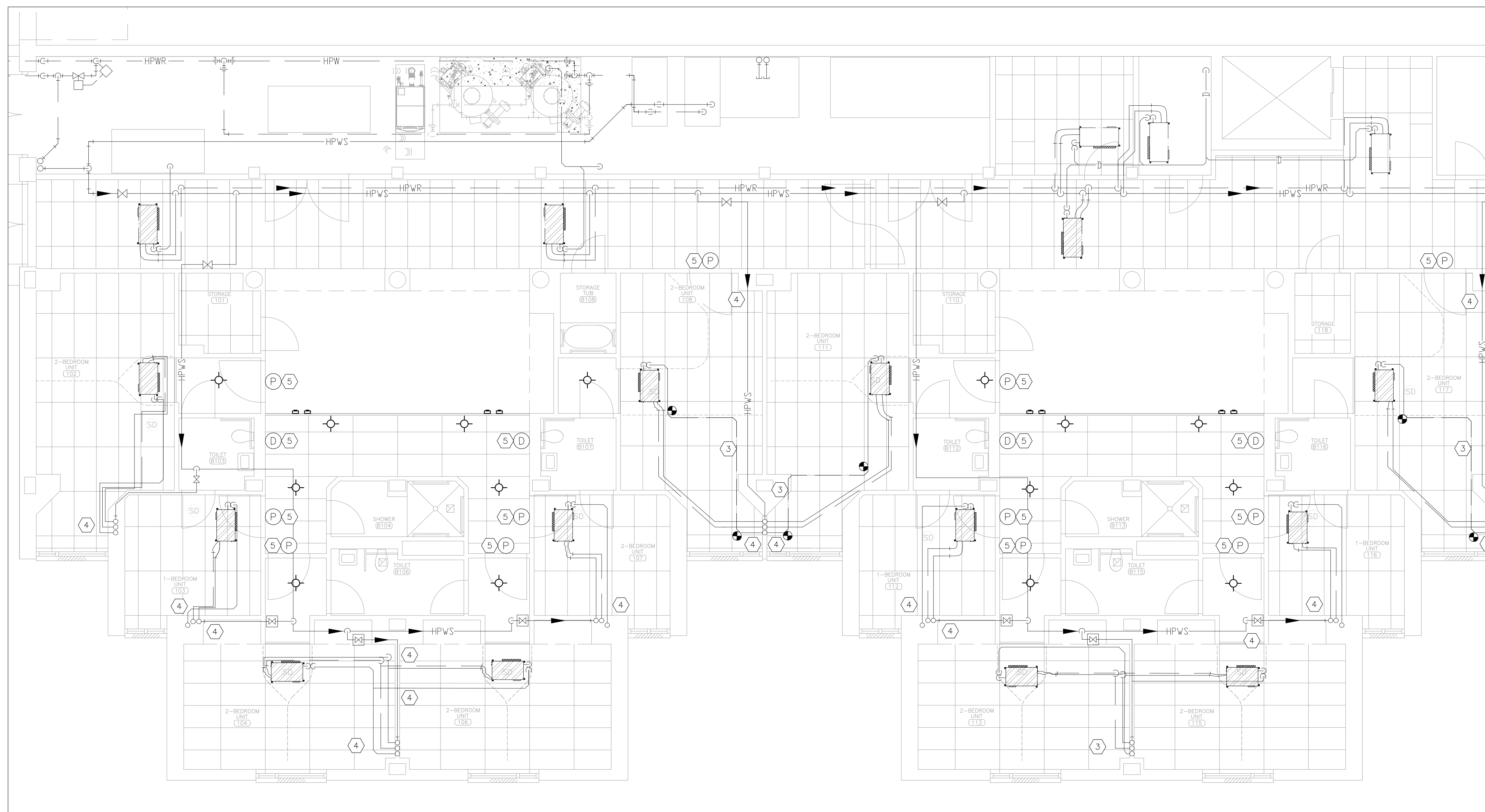
M-105

18 OF 28 SHEETS
4/11/2024

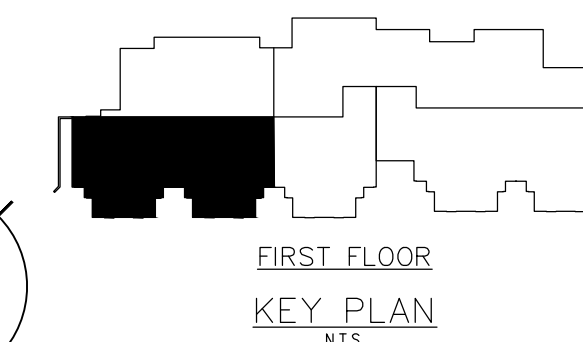
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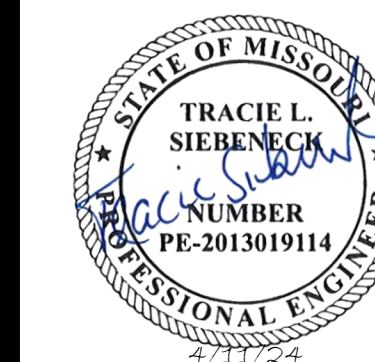
(N) INDICATES KEYED NOTES

- 1 REFERENCE SHEET M-104 FOR GENERAL CONSTRUCTION NOTES.
- 2 COORDINATE NEW FAN FILTER UNIT (FFU) AND DUCT INSTALLATION SHOWN ON SHEET M-104 WITH EXISTING CONDENSER PIPE AND CONDENSATE PIPE LOCATIONS.
- 3 REROUTE HEAT PUMP CONDENSATE DRAIN PIPE AS SHOWN OR AS NEEDED TO ACCOMMODATE INSTALLATION OF NEW FAN FILTER UNIT. REUSE EXISTING CONDENSATE PIPE AND INSULATION WHERE POSSIBLE. PROVIDE MATERIALS TO MATCH EXISTING FINISH AND PERFORMANCE.
- 4 CAULK ANY PENETRATIONS MADE BY CONDENSER PIPE, CONDENSATE DRAIN PIPE, SPRINKLER PIPE, CONDUIT, WIRE, OR DUCT TO ENSURE AIR DOES NOT PASS BETWEEN ROOMS. SEE SHEET F-101 FOR GENERAL SPRINKLER PIPE LOCATIONS. REFER TO ARCHITECTURAL PLANS FOR PATCHING LARGER OPENINGS IN DRYWALL. NOT ALL PENETRATIONS THAT REQUIRE SEALANT ARE SHOWN ON PLANS. REFERENCE GENERAL CONSTRUCTION NOTE 2 ON SHEET G-002 FOR ADDITIONAL INFORMATION.
- 5 PROVIDE THROUGH THE WALL PRESSURE SENSOR TSI MODEL 800243 OR EQUAL AND LOCATE ABOVE DOOR TO EACH BEDROOM. PROVIDE TSI DISPLAY MODEL RPM20 OR EQUAL. ROUTE CONTROL WIRING AS NEEDED TO MONITOR THE THREE NEAREST PRESSURE SENSORS. CAREFULLY FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 120V TO 24V TRANSFORMER REQUIRED TO PROVIDE 24V POWER TO PRESSURE MONITORING SYSTEM. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LOW VOLTAGE WIRING.



HVAC LEGEND	
	CONNECT TO EXISTING EQUIPMENT
	DIFFERENTIAL PRESSURE SENSOR
	PRESSURE SENSOR DISPLAY -CONNECTS TO THREE PRESSURE SENSORS
	HVAC EQUIPMENT - EXISTING
	CONDENSATE DRAIN PIPE
	SPRINKLER PIPE
	CONDENSER WATER RETURN - EXISTING
	CONDENSER WATER SUPPLY - EXISTING
	CONDENSATE DRAIN PIPE - EXISTING





Tracie L. Siebeneck - Engineer
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CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
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SHEET TITLE:
**MECHANICAL
RENOVATION PLAN -
2ND & 3RD FLOORS**

SHEET NUMBER:

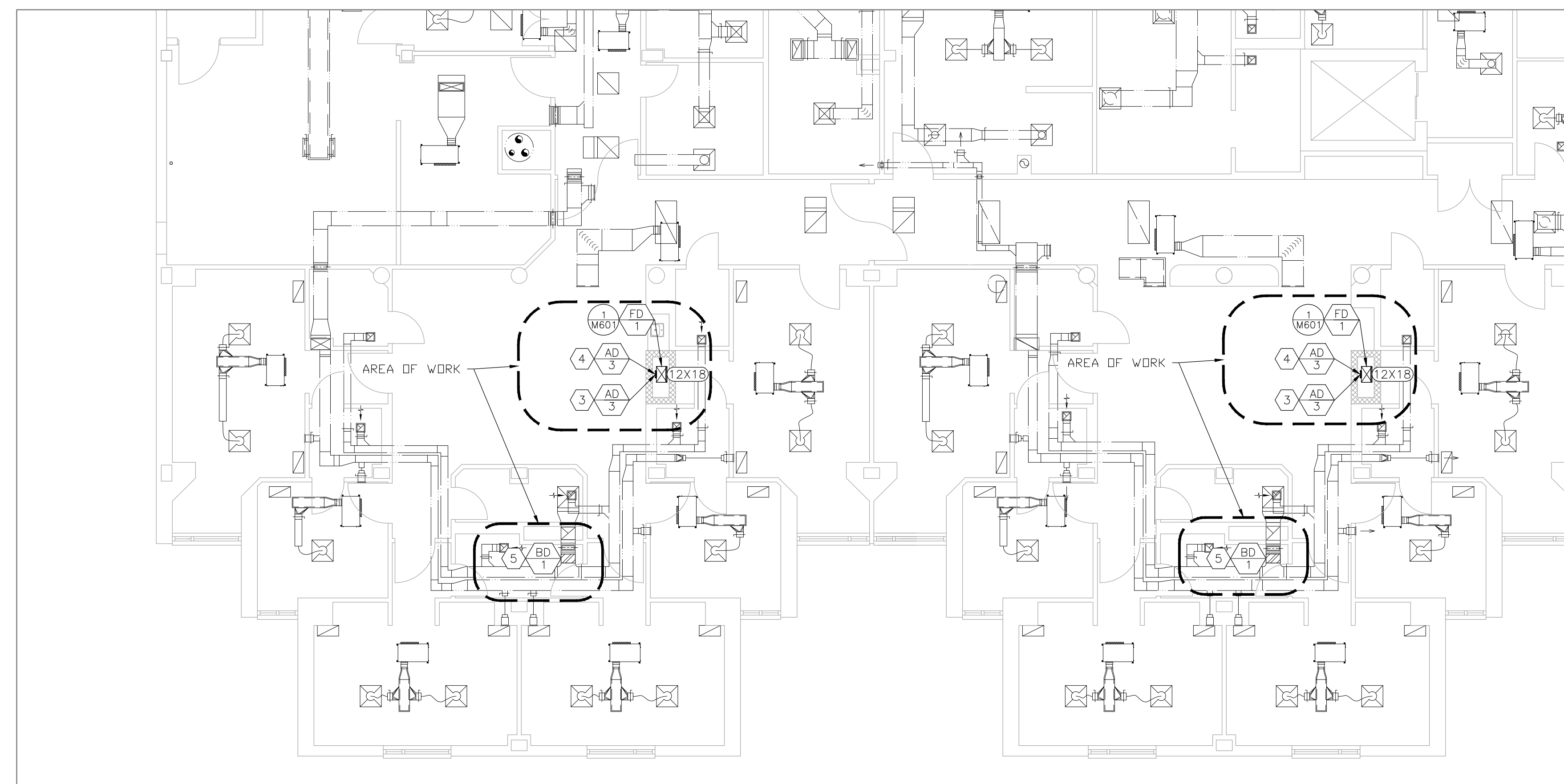
M-106

19 OF 28 SHEETS
4/11/2024

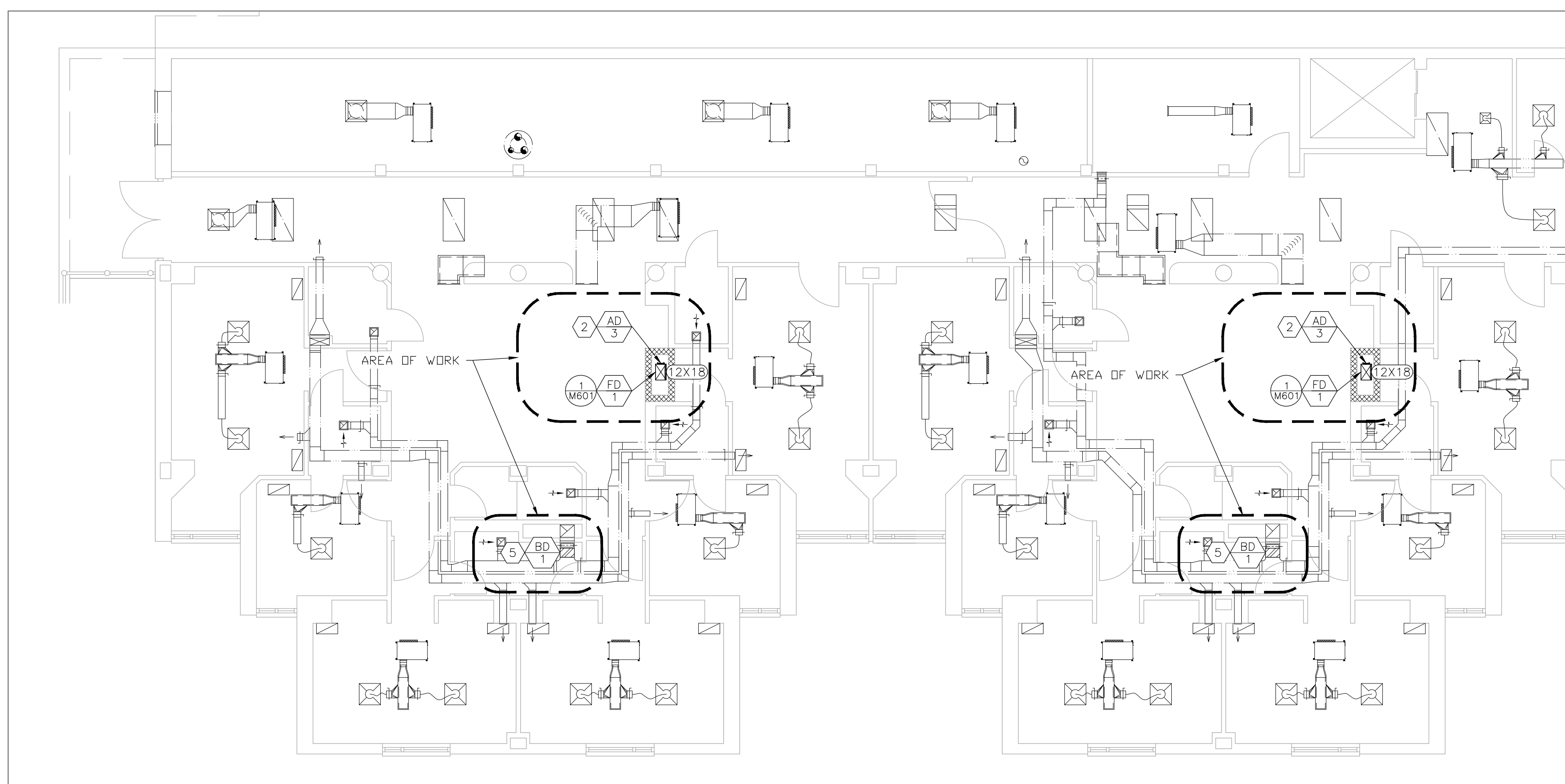
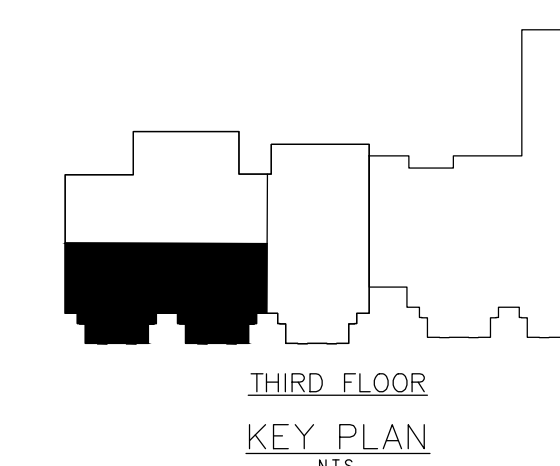
NOTES

INDICATES KEYED NOTES

- 1 REFERENCE SHEET M-104 FOR GENERAL CONSTRUCTION NOTES.
- 2 PROVIDE AND INSTALL FIRE DAMPER (FD-1) IN 2ND FLOOR SLAB. ENSURE INSTALLATION IS SERVICEABLE FROM 2ND FLOOR DUCT ACCESS DOOR (AD-3). COORDINATE WITH GENERAL CONTRACTOR TO INSTALL FIRE RATED ACCESS DOOR (AD-2) IN NEW CHASE WALL IN LINE WITH AD-3. REFER TO ARCHITECTURAL PLANS FOR CHASE AND AD-2 REQUIREMENTS.
- 3 PROVIDE AND INSTALL FIRE DAMPER (FD-1) IN 3RD FLOOR SLAB. ENSURE INSTALLATION IS SERVICEABLE FROM 3RD FLOOR DUCT ACCESS DOOR (AD-3). COORDINATE WITH GENERAL CONTRACTOR TO INSTALL FIRE RATED ACCESS DOOR (AD-2) IN NEW CHASE WALL IN LINE WITH AD-3. REFER TO ARCHITECTURAL PLANS FOR CHASE AND AD-2 REQUIREMENTS.
- 4 PROVIDE AND INSTALL FIRE DAMPER (FD-1) IN ROOF SLAB. ENSURE INSTALLATION IS SERVICEABLE FROM 3RD FLOOR DUCT ACCESS DOOR (AD-3). COORDINATE WITH GENERAL CONTRACTOR TO INSTALL FIRE RATED ACCESS DOOR (AD-2) IN NEW CHASE WALL IN LINE WITH AD-3. REFER TO ARCHITECTURAL PLANS FOR CHASE AND AD-2 REQUIREMENTS.
- 5 INSTALL BACKDRAFT DAMPER IN EXHAUST DUCT PRIOR TO CHASE.

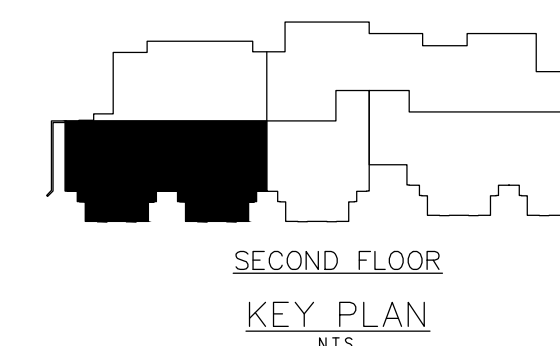


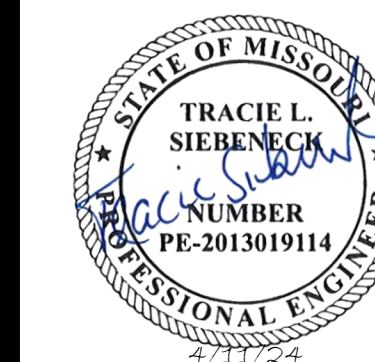
2 MECHANICAL RENOVATION PLAN - 3RD FLOOR
SCALE: 1/8" = 1'-0"



1 MECHANICAL RENOVATION PLAN - 2ND FLOOR
SCALE: 1/8" = 1'-0"

HVAC LEGEND	
	DEVICE SCHEDULE TAG
	DETAIL REFERENCE, NUMBER/SHEET
	DUCT SIZE-RECTANGULAR (INCHES X INCHES)
	HVAC EQUIPMENT
	HVAC EQUIPMENT - EXISTING
	SUPPLY AIR - EXISTING
	RETURN AIR - EXISTING
	EXHAUST AIR - EXISTING





Tracie L. Siebeneck - Engineer
MO# PE-2013019114

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MEXICO VETERANS
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1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
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CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
CHECKED BY: TS
DESIGNED BY: TS/AH

SHEET TITLE:
**MECHANICAL
RENOVATION PLAN -
ROOF**

SHEET NUMBER:

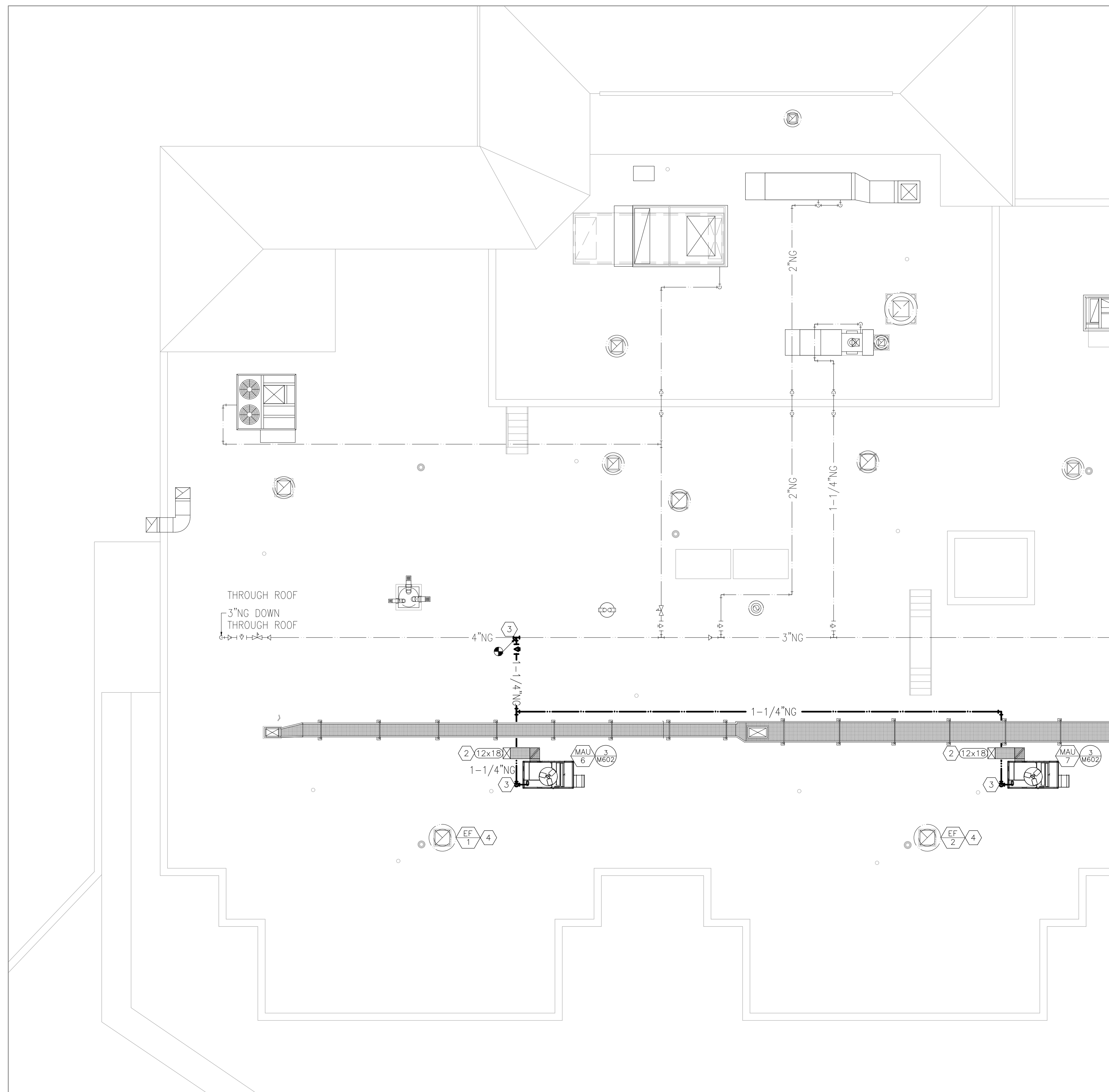
M-107

20 OF 28 SHEETS
4/11/2024

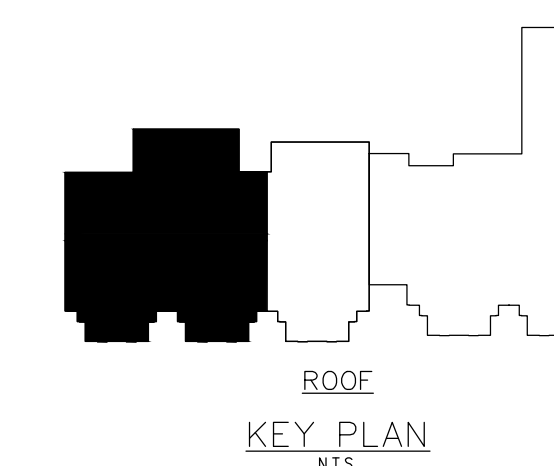
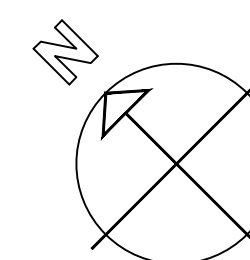
NOTES

(N) INDICATES KEYED NOTES

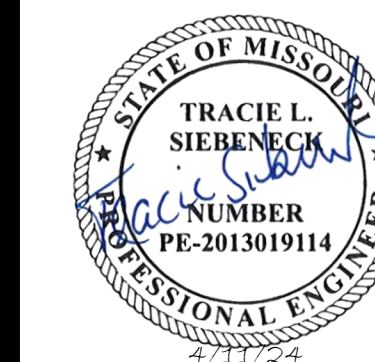
- 1 REFERENCE SHEET M-104 FOR GENERAL CONSTRUCTION NOTES.
- 2 MAKE-UP AIR DUCT. PENETRATE ROOF AND ROUTE TO FIRST FLOOR. REFER TO DETAILS 4, 5, AND 6 OF SHEET M-602 FOR ADDITIONAL INFORMATION.
- 3 CONNECT NEW NATURAL GAS PIPE TO EXISTING 4 INCH PIPE AND PROVIDE ISOLATION VALVE. ROUTE PIPE TO NEW MAKE UP AIR UNITS AS SHOWN. REFER TO SPECIFICATIONS FOR IDENTIFICATION REQUIREMENTS. REFER TO DETAILS 1 AND 2 OF SHEET M-602 FOR ADDITIONAL INFORMATION.
- 4 REFER TO NOTE 4 ON SHEET M-103 FOR TAB REQUIREMENTS.



HVAC LEGEND	
	CONNECT TO EXISTING EQUIPMENT
	DEVICE SCHEDULE TAG
	DETAIL REFERENCE, NUMBER/SHEET
	DUCT SIZE-RECTANGULAR (INCHES X INCHES)
	HVAC EQUIPMENT
	OUTSIDE AIR
	NATURAL GAS PIPE - EXISTING
	NATURAL GAS PIPE - NEW



1 MECHANICAL RENOVATION PLAN - ROOF
SCALE: 1/8" = 1'-0"



Tracie L. Siebencek - Engineer
MO# PE-2013019114

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1 VETERANS DR
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

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DATE: _____
ISSUE DATE: 04/11/2024

CAD DWG FILE: M-U2301-03
DRAWN BY: TS/AH
CHECKED BY: TS
DESIGNED BY: TS/AH

SHEET TITLE:
**MECHANICAL
DETAILS AND
SCHEDULES**

SHEET NUMBER:

M-601

21 OF 28 SHEETS
4/11/2024

MAKE UP AIR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	OUTDOOR AIRFLOW (CFM)	ESP (IN WG)	REFRIGERANT COOLING					NATURAL GAS HEATING				ELECTRICAL			WEIGHT (LBS)	NOTES			
					CAPACITY TOTAL (MBH)	CAPACITY SENSIBLE (MBH)	EAT (db°F/wb°F)	COIL LAT (db°F/wb°F)	REHEAT COIL CAPACITY (MBH)	REHEAT COIL LAT (db°F/wb°F)	EER/IEER	CAPACITY TOTAL (MBH)	INPUT (MBH)	EAT (db°F/wb°F)	COIL LAT (db°F/wb°F)	TURNDOWN RATIO			VOLTS PHASE	MCA	MOP
MAU-6	AAON	RQ006	1000-1300	1.00	79.6	38.4	82.2/73.6	54.6/54.5	24.1	72/61.2	11.8/15	113.4	140	0/0	80.7/50.1	11.6:1	208/3	36	50	1049	1,2,3,4,5,6
MAU-7	AAON	RQ006	1000-1300	1.00	79.6	38.4	82.2/73.6	54.6/54.5	24.1	72/61.2	11.8/15	113.4	140	0/0	80.7/50.1	11.6:1	208/3	36	50	1049	1,2,3,4,5,6

NOTES

- DESIGN CONDITIONS: SUMMER (DEHUMIDIFICATION) 82.2/73.6°F; WINTER 0°F
- DESIGN AIRFLOW IS 1000 CFM, UNIT SHALL HAVE CAPACITY UP TO 1300 CFM; TAB: ADJUST TO AIRFLOW REQUIRED TO ACHIEVE -0.01 IN WG BEDROOM NEGATIVE PRESSURE (MINIMUM)
- PROVIDE TERMINAL STRIP FOR FIELD SUPPLIED DDC CONTROLS BY OTHERS
- PROVIDE VARIABLE CAPACITY COMPRESSOR WITH MODULATING HOT GAS REHEAT; STAINLESS STEEL DRAIN PAN; STAINLESS STEEL HEAT EXCHANGER; SUPPLY BLOWER WITH FACTORY VFD; ECM CONDENSER FAN
- PROVIDE FACTORY MOUNTED, NON-FUSED DISCONNECT; FACTORY INSTALLED CONVENIENCE OUTLET
- PROVIDE UV LIGHTING FOR COIL SANITIZING; 30% EFFICIENT PREFILTER, MERV 14 FINAL FILTER; CLOGGED FILTER SWITCH

FAN FILTER UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE (INCHES)	FILTERS	EXTERNAL STATIC PRESSURE (IN WG)	EXHAUST SIZE (INCH) AIRFLOW (CFM)	RETURN SIZE (INCH) AIRFLOW (CFM)	VOLTAGE	DESCRIPTION	NOTES
FFU-1A	PRICE	PURAFLO	24x48	MERV 8 HEPA	0.20-0.25	8 Ø 125	8 Ø 145	208/1	HOUSING: ALUMINUM PLENUM; ROOMSIDE ACCESS FOR FILTER REPLACEMENT AND MAINTENANCE; FILTER: EXTRUDED ALUMINUM FRAME WITH URETHANE GEL; CONSTANT FLOW	1,2,4
FFU-1B	PRICE	PURAFLO	24x48	MERV 8 HEPA	0.20-0.25	8 Ø 190	8 Ø 250	208/1	HOUSING: ALUMINUM PLENUM; ROOMSIDE ACCESS FOR FILTER REPLACEMENT AND MAINTENANCE; FILTER: EXTRUDED ALUMINUM FRAME WITH URETHANE GEL; CONSTANT FLOW	1,2,4
FFU-1C	PRICE	PURAFLO	24x48	MERV 8 HEPA	0.20-0.25	8 Ø 112	8 Ø 150	208/1	HOUSING: ALUMINUM PLENUM; ROOMSIDE ACCESS FOR FILTER REPLACEMENT AND MAINTENANCE; FILTER: EXTRUDED ALUMINUM FRAME WITH URETHANE GEL; CONSTANT FLOW	1,2,4
FFU-2	PRICE	OAP	24x44	MERV 8 HEPA	0.60	24x12 540	-	208/1	HOUSING: ZINC COATED 20 GAUGE STEEL; INTERNAL INSULATION: 1/2 INCH THICK FIBERGLASS; MOTOR: EC WITH SPEED CONTROLLER	1,2,3,4
FFU-3	PRICE	OAP	24x44	MERV 8 HEPA	0.50	24x12 570	-	208/1	HOUSING: ZINC COATED 20 GAUGE STEEL; INTERNAL INSULATION: 1/2 INCH THICK FIBERGLASS; MOTOR: EC WITH SPEED CONTROLLER	1,2,3,4

NOTES *FAN FILTER UNITS ARE SOLE SOURCE ONLY*****

- PROVIDE FACTORY MOUNTED DISCONNECT
- PROVIDE HANGER BRACKETS SHIPPED LOOSE. BRACKETS CAN NOT BE INSTALLED ON THE TOP OF THE UNIT. CONTRACTOR SHALL INSTALL BRACKETS PER DETAIL 3 THIS SHEET. ENSURE INSTALLATION DOES NOT DAMAGE FILTERS.
- PROVIDE LEFT HAND CONTROLS
- PROVIDE BACnet FLOW CONTROLLER WITH MOTOR AND FILTER STATUS

DAMPER SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE (INCHxINCH)	TYPE	SPECIFICATION	NOTES
BD-1	POTTORFF	BD-150	MATCH DUCT	BACKDRAFT DAMPER VERTICAL	FRAME: EXTRUDED ALUMINUM CHANNEL; BLADES: EXTRUDED ALUMINUM; SEALS: EXTRUDED VINYL BLADE EDGE; LINKS: EXPOSED ON BLADE; BEARINGS: SYNTHETIC	1
CD-1	POTTORFF	CD-52	24x12	CONTROL DAMPER OPPOSED BLADE RECTANGULAR	FRAME: 13 GAUGE GALVANIZED STEEL CHANNEL; BLADES: 6"x16 GAUGE EXTRUDED ALUMINUM AIRFOIL OPPOSED BLADE WITH PVC BLADE SEALS; SLEEVE: FACTORY INSTALLED 16"x20 GAUGE ALUMINUM.	2
FD-1	POTTORFF	VFD-100-A	HEIGHT: 12" WIDTH: 18"	1-1/2 HOUR DYNAMIC	FRAME: 22 GAUGE GALV STEEL; BLADES: 24 GAUGE GALV STEEL; FUSIBLE LINK; BLADE STACK HEIGHT: 1-7/16"; UL LISTED	3

NOTES

- PROVIDE 10"x 20 GAUGE GALVANIZED STEEL SLEEVE (INTAKE)
- PROVIDE FACTORY INSTALLED 24V ACTUATOR
- PROVIDE FACTORY INSTALLED 12"x 20 GAUGE SLEEVE WITH DUCT CONNECTIONS AND RETAINING ANGLE SYSTEM

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE (INCHxINCH)	TYPE	SPECIFICATION	NOTES
L-1	POTTORFF	EXA-645	30x9	LOUVER W/ CONTROL DAMPER	MATERIAL: MILL FINISH 6063-T5 EXTRUDED ALUMINUM; FRAME 6" DEEPx0.081" THICK CHANNEL; FRONT BLADES: 37-1/2"x0.081" THICK DRAINABLE STYLE; BACK BLADES: 45"x0.125" THICK OPERABLE AIRFOIL STYLE; SCREEN: MESH ALUMINUM INSECT SCREEN; AXLES: 1/2" DIAMETER STEEL HEX.	1,2

NOTES

- PROVIDE BAKED ENAMEL FINISH WITH COLOR SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF COLORS
- PROVIDE FACTORY INSTALLED 24V ACTUATOR

DUCT ACCESS DOOR SCHEDULE

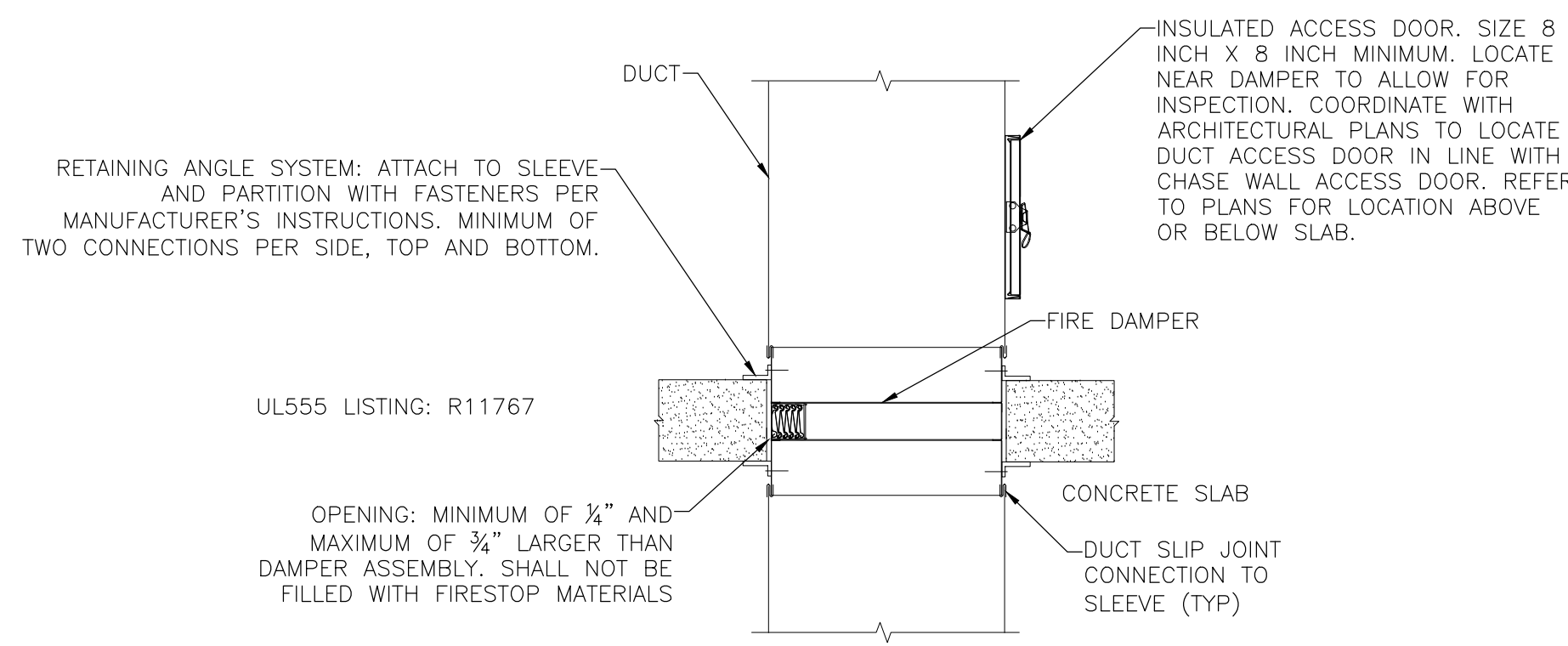
MARK	MANUFACTURER	MODEL	SIZE (INCH x INCH)	TYPE	SPECIFICATION
AD-3	ACUDOR	CD-5080	8 x 8	DUCT ACCESS DOOR	DOOR: 24 GAUGE GALVANIZED STEEL; FRAME: 24 GAUGE GALVANIZED STEEL; GASKETING: 1/8" THICK BY 1/2" WIDE CLOSED NEOPRENE; CAM LATCH: SELF TIGHTENING

AIR DEVICE SCHEDULE

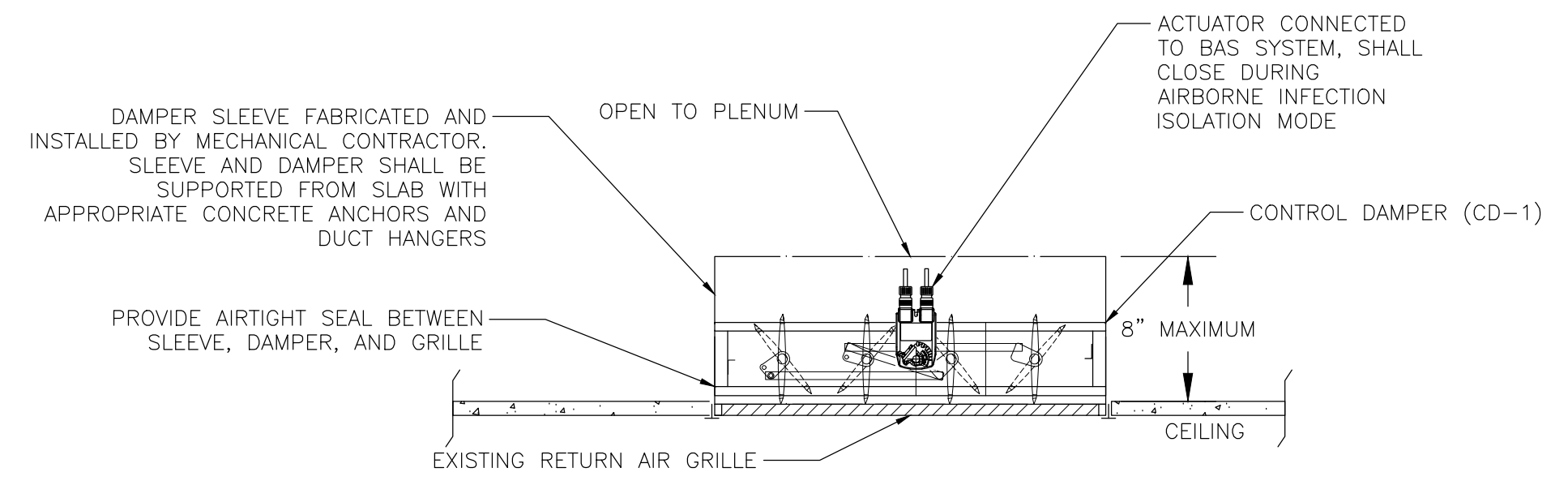
MARK	MANUFACTURER	MODEL	TYPE	SPECIFICATION	NOTES
S1	PRICE	520D	SUPPLY W/DAMPER SURFACE MOUNT	STEEL, WHITE, LOUVER FACE, DOUBLE DEFLECTION, 3/4 INCH BLADE SPACING, BLADES PARALLEL TO LONG DIMENSION	1
R1	PRICE	535D	RETURN W/DAMPER SURFACE MOUNT	STEEL, WHITE, LOUVER FACE, 45° DEFLECTION, 1/2 INCH BLADE SPACING, BLADES PARALLEL TO LONG DIMENSION	1
R2	PRICE	535D	RETURN W/DAMPER LAYIN MOUNT	STEEL, WHITE, LOUVER FACE, 45° DEFLECTION, 1/2 INCH BLADE SPACING, BLADES PARALLEL TO LONG DIMENSION	1
E1	PRICE	535D	EXHAUST W/DAMPER SURFACE MOUNT	STEEL, WHITE, LOUVER FACE, 45° DEFLECTION, 1/2 INCH BLADE SPACING, BLADES PARALLEL TO LONG DIMENSION	1

NOTES

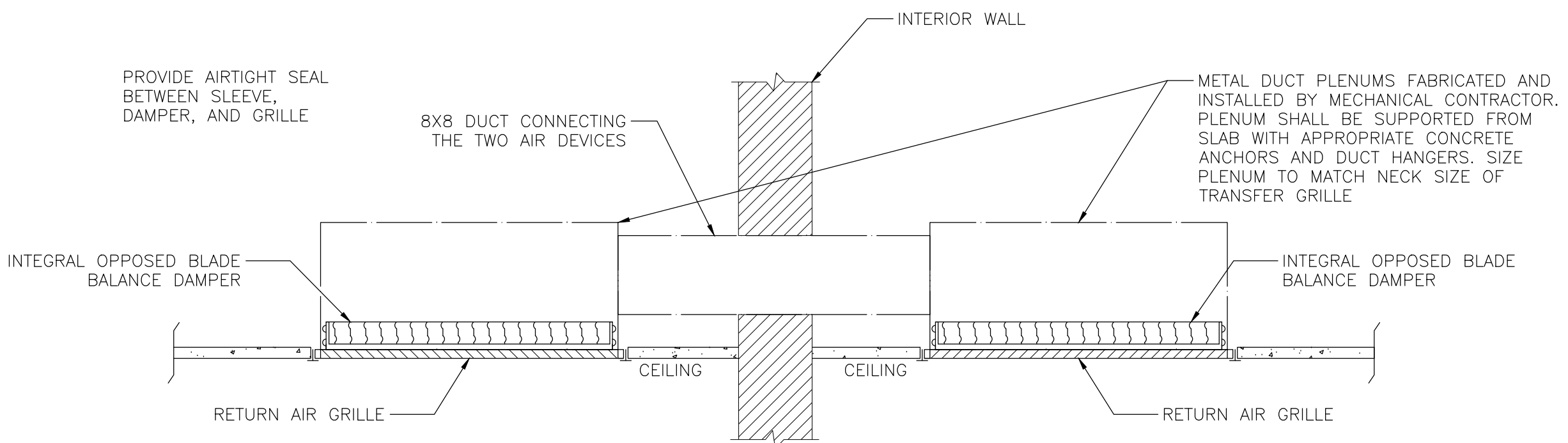
- PROVIDE INTEGRAL OPPOSED BLADE BALANCE DAMPER



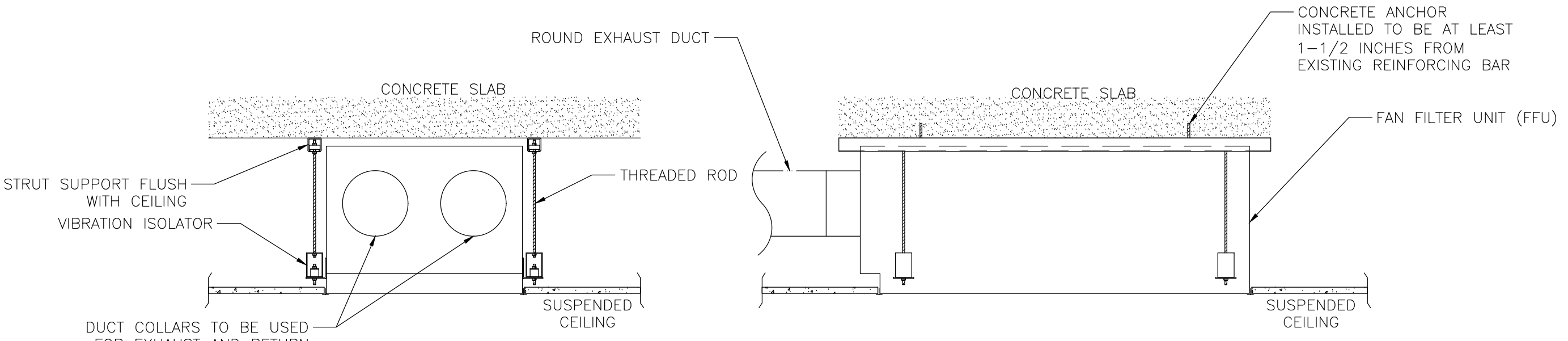
1 FIRE DAMPER INSTALLATION
NO SCALE



2 TYPICAL RETURN DUCT WITH CONTROL DAMPER
NO SCALE



3 TYPICAL CEILING TO CEILING TRANSFER GRILLE
NO SCALE



4 TYPICAL FAN FILTER UNIT
NO SCALE



Tracie L. Siebeneck - Engineer
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DESIGNED BY: TS/AH

SHEET TITLE:
**MECHANICAL
DETAILS AND
CONTROLS DIAGRAMS**

SHEET NUMBER:

M-602

22 OF 28 SHEETS
4/11/2024

CONTROL NOTES

THIS FACILITY HAS AN EXISTING SCHNEIDER ELECTRIC BUILDING AUTOMATION SYSTEM. INTEGRATION OF EQUIPMENT CONTROL SHALL BE PROVIDED BY C&C GROUP:

BRIAN SCHEPERS
2414 HYDE PARK RD.
JEFFERSON CITY, MO 65109
573.632.4247

CONTROLS CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROLLERS, CONTROL WIRING, AND SENSORS EXCEPT SENSORS PROVIDED BY EQUIPMENT MANUFACTURER.

CONTROLS CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND GRAPHICS REQUIRED TO INTEGRATE NEW EQUIPMENT INTO THE EXISTING CONTROLS SYSTEM:

1. PROVIDE A RADIO BUTTON TO SET EACH MODULE INTO AIRBORNE INFECTION ISOLATION MODE (AIM) SEPARATELY. SEE SEQUENCE OF OPERATION FOR MORE INFORMATION.
2. PROVIDE A GRAPHIC FOR MAU-6, MAU-7, AND EACH FAN FILTER UNIT IN EACH ROOM (FFU-1A THROUGH FFU-1C, FFU-2, AND FFU-3). GRAPHIC SHALL ACCURATELY REPRESENT INSTALLED EQUIPMENT.
3. PROVIDE A LINK FROM THE GRAPHIC TO A COPY OF THE SEQUENCE OF OPERATION WHICH SHALL ACCURATELY REPRESENT SEQUENCE PROGRAMMING.

SEQUENCE OF OPERATION

DEFINITIONS:
MODULE 1 – BEDROOMS, LIVING ROOM, AND ALL ASSOCIATED ANTEROOMS SERVED BY MAU-6. BOUNDARY IS BETWEEN FIRE DOORS IN CORRIDOR.

MODULE 2 – BEDROOMS, LIVING ROOM, AND ALL ASSOCIATED ANTEROOMS SERVED BY MAU-7. BOUNDARY IS BETWEEN FIRE DOORS IN CORRIDOR.

AIRBORNE INFECTION ISOLATION MODE (AIIM) – A STATE OF OPERATION FOR THE HVAC SYSTEM THAT CREATES A NEGATIVE PRESSURE RELATIONSHIP BETWEEN THE BEDROOMS, THE LIVING ROOMS, AND THE ADJACENT MODULE. HEPA FILTRATION IS PROVIDED FOR ALL EXHAUST AIR AND ALL AIR THAT IS RETURNED TO THE HEAT PUMPS IN EACH BEDROOM. AIIM IS ESTABLISHED VIA A SETTING IN THE BUILDING AUTOMATION SYSTEM (BAS).

EQUIPMENT IN EACH MODULE SHALL OPERATE AS FOLLOWS DURING AIIM:
EACH MODULE SHALL BE SET TO AIIM INDEPENDENT FROM EACH OTHER.

HEAT PUMPS: SHALL OPERATE PER EXISTING SEQUENCE OF OPERATION TO MAINTAIN EXISTING SETPOINTS IN THE SPACE. FAN SHALL OPERATE CONTINUOUSLY.

MAKEUP AIR UNIT: SHALL BE ENERGIZED AND FAN SHALL OPERATE CONTINUOUSLY.

FAN FILTER UNITS (FFU-1A, 1B, 1C): SHALL BE ENERGIZED AND FAN SHALL OPERATE CONTINUOUSLY PROVIDING HEPA FILTRATION. ONLY THOSE FAN FILTER UNITS IN THE MODULE THAT IS IN AIIM SHALL OPERATE.

FFU-2: SHALL BE ENERGIZED AND FAN SHALL OPERATE CONTINUOUSLY PROVIDING HEPA FILTRATION IF MAU-6 IS OPERATING.

FFU-3: SHALL BE ENERGIZED AND FAN SHALL OPERATE CONTINUOUSLY PROVIDING HEPA FILTRATION IF MAU-7 IS OPERATING.

RETURN AIR CONTROL DAMPERS (CD-1): SHALL MOVE TO A CLOSED POSITION TO PREVENT UNFILTERED RETURN AIR FROM ENTERING THE HEAT PUMP.

ROOM PRESSURE SENSORS: SHALL BE PLACED IN OCCUPIED MODE. WHEN SYSTEM IS NOT IN AIIM, SENSORS SHALL BE PLACED IN UNOCCUPIED MODE TO PREVENT UNNECESSARY ALARMS.

MAKEUP AIR UNIT (MAU-6 AND MAU-7) SEQUENCE OF OPERATION:

WHEN MAU IS ENERGIZED, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY AT THE DESIGN AIRFLOW AND THE UNIT SHALL HEAT OR COOL TO MAINTAIN MAU LEAVING AIR TEMPERATURE (LAT).

IF THE OUTDOOR AIR (OA) TEMPERATURE RISES ABOVE 72°F (ADJ), THE VARIABLE CAPACITY COMPRESSOR SHALL MODULATE TO PROVIDE A LAT OF 70°F (ADJ).

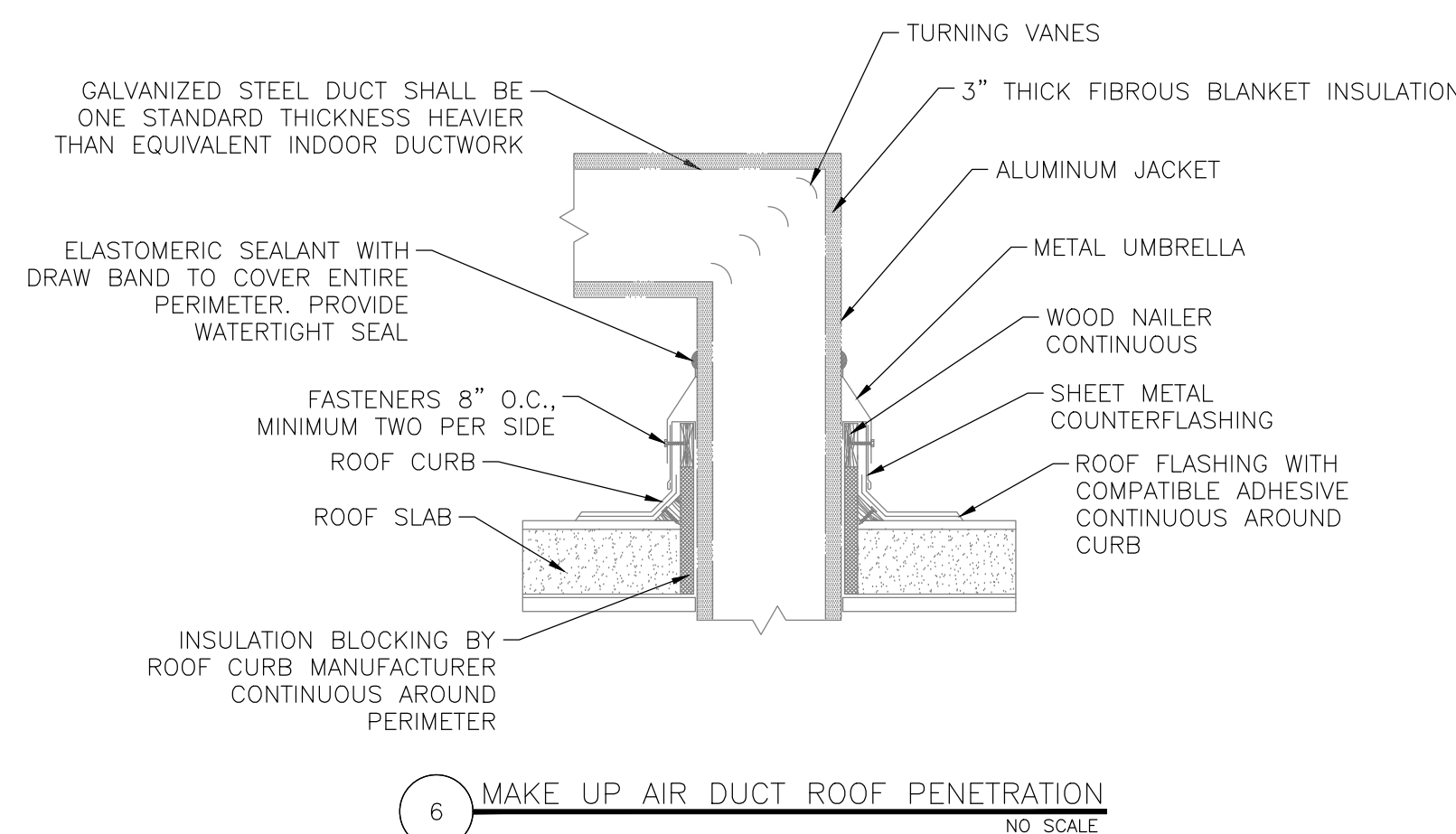
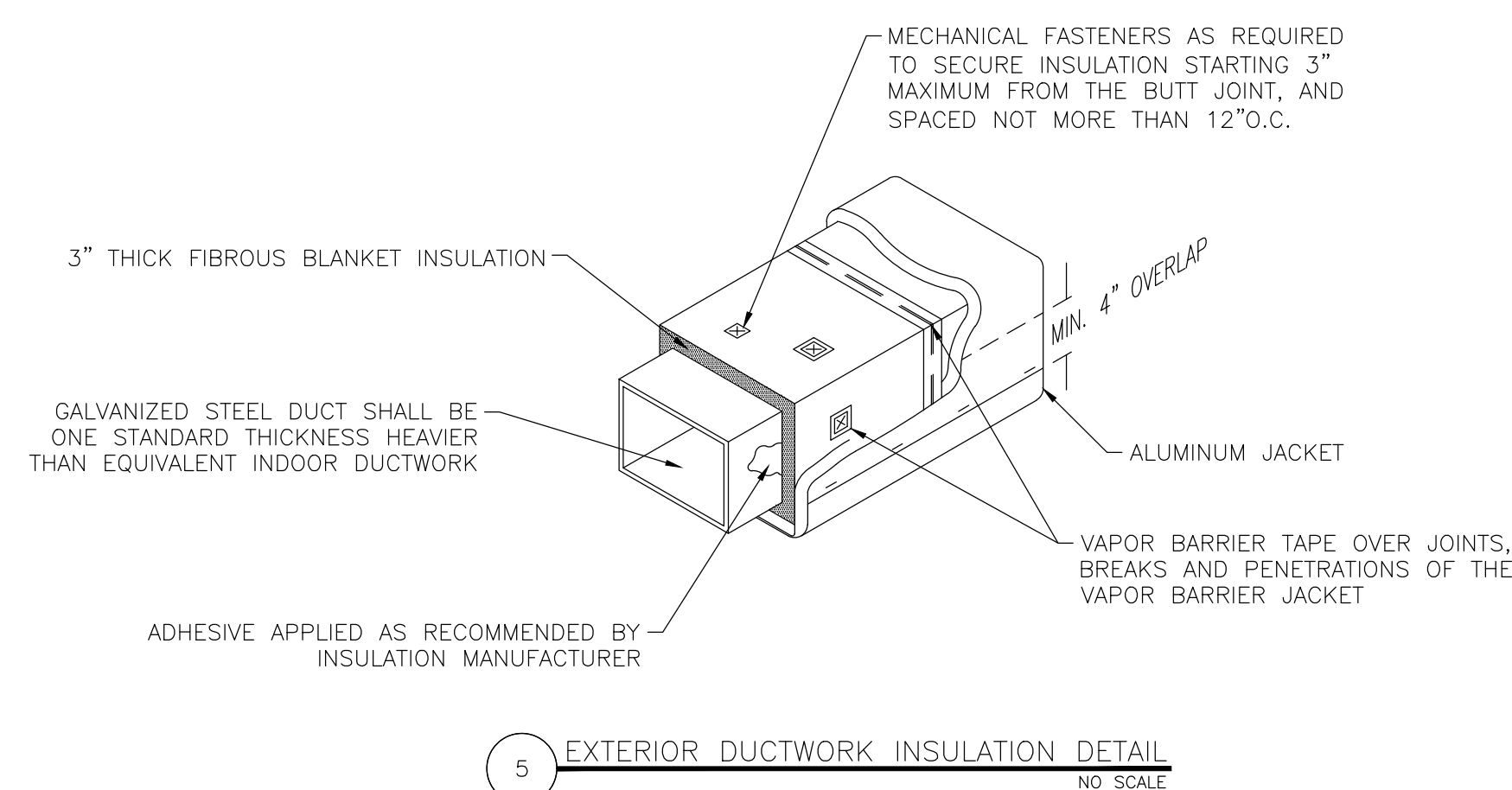
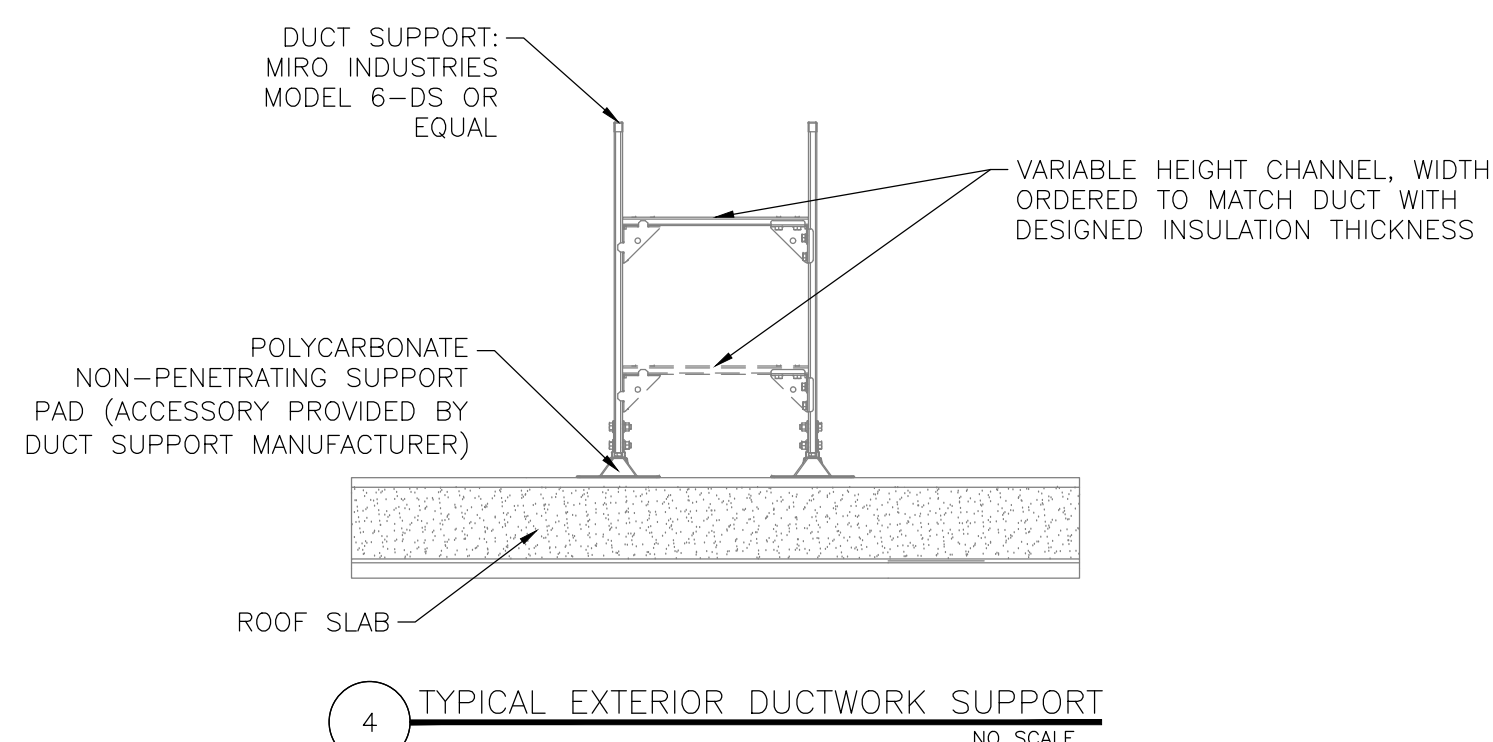
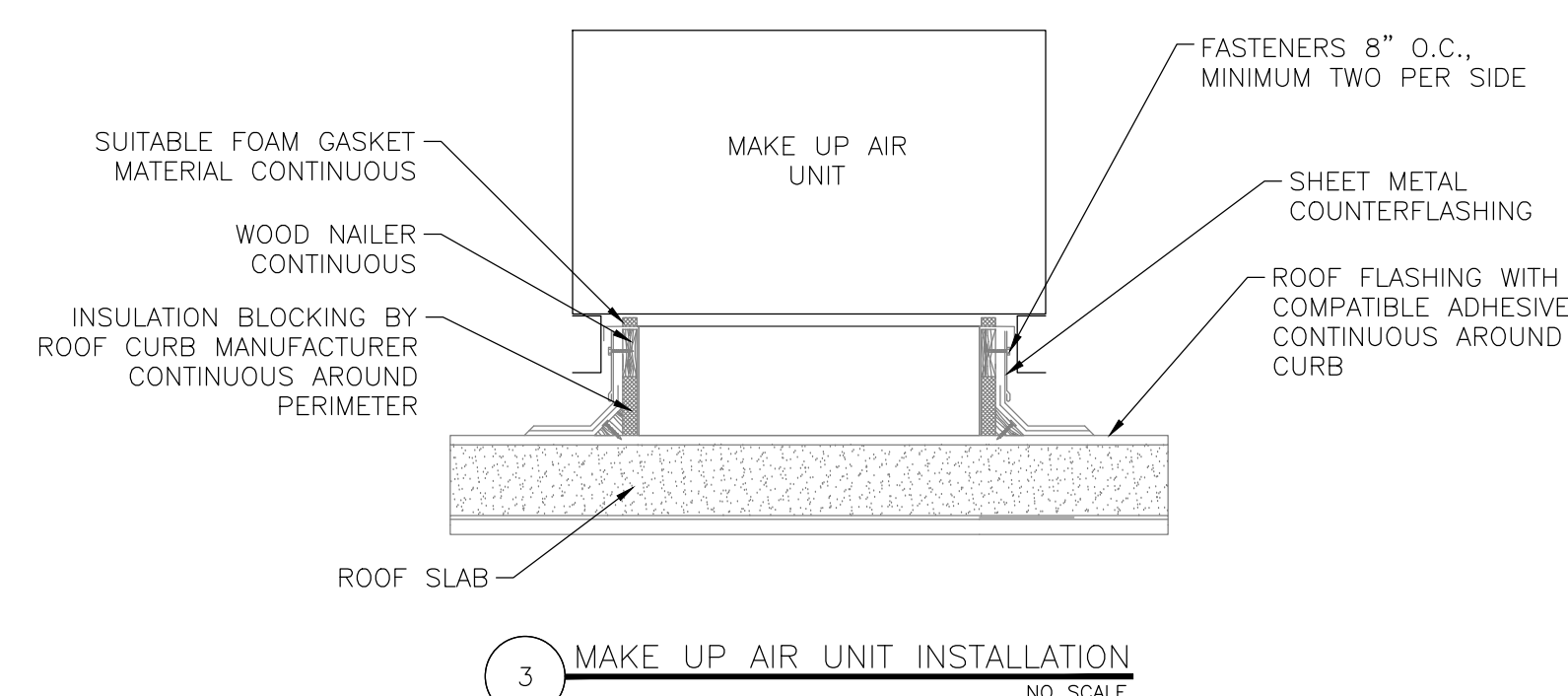
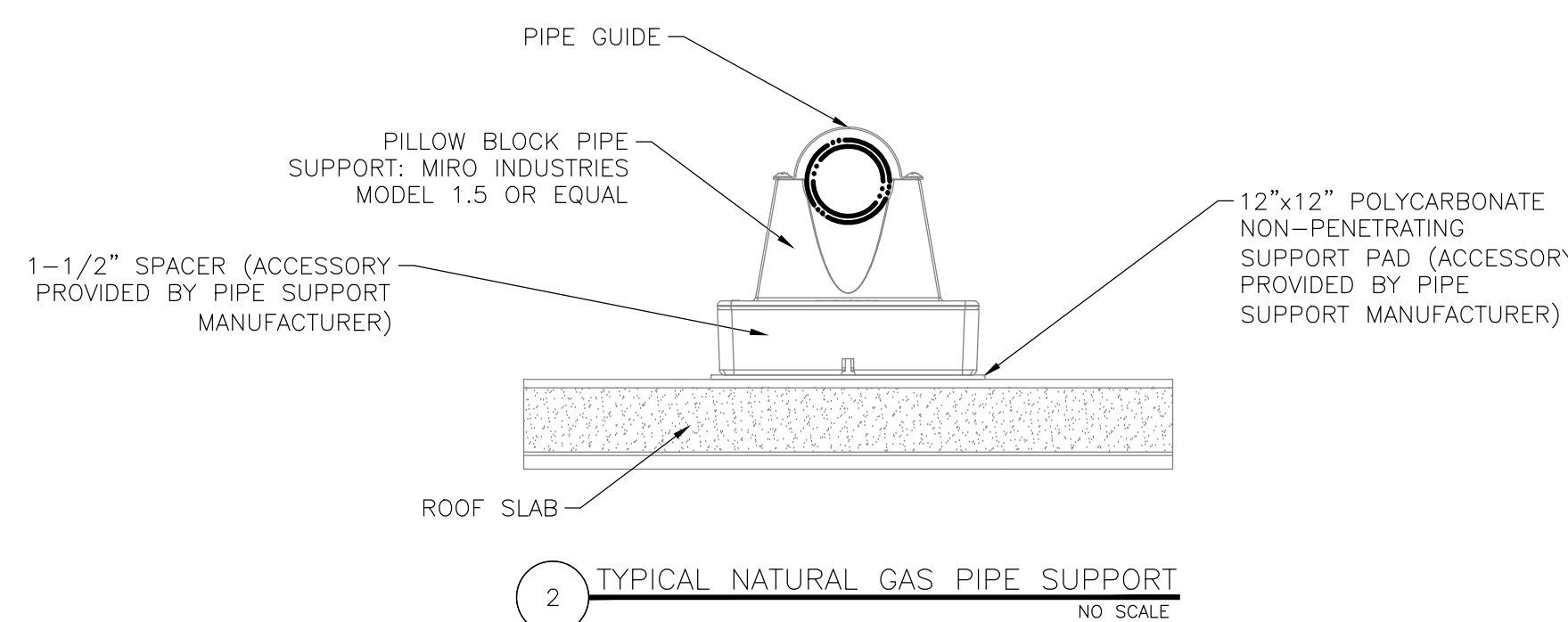
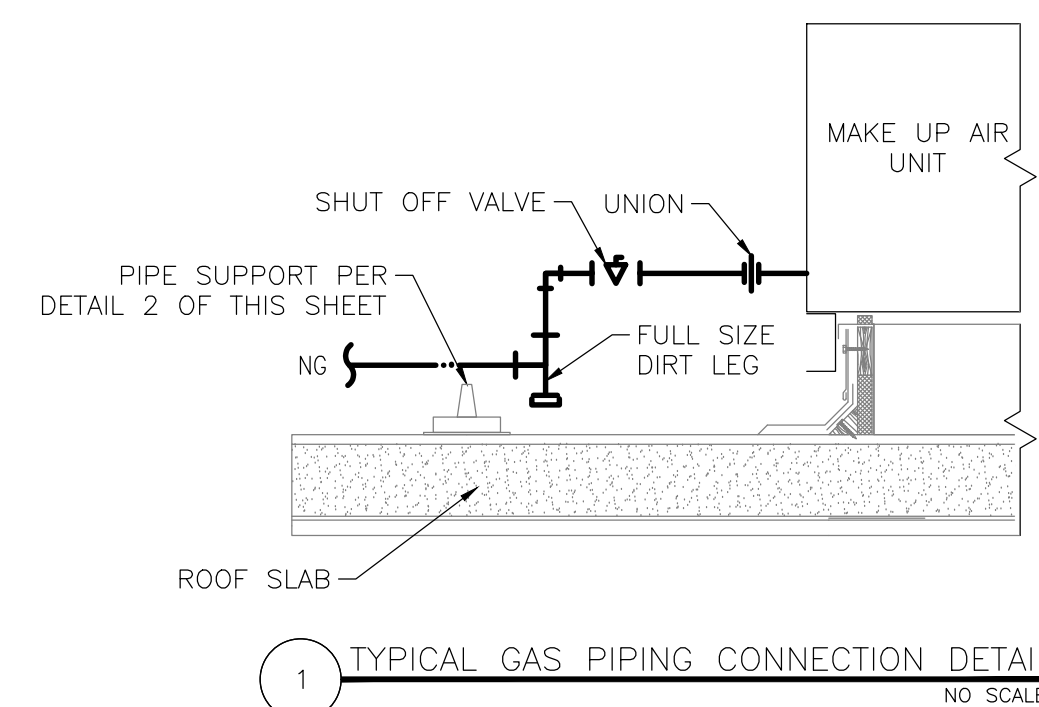
IF THE OA HUMIDITY RISES ABOVE 55%, THE VARIABLE CAPACITY COMPRESSOR SHALL MODULATE TO PROVIDE 55°F COOLING COIL LEAVING AIR TEMPERATURE AND THE MODULATING HOT GAS REHEAT SHALL MODULATE TO PROVIDE A MAU LEAVING AIR TEMPERATURE OF 70°F (ADJ).

IF THE OA TEMPERATURE FALLS BELOW 68°F, THE MODULATING NATURAL GAS HEATER SHALL ENERGIZE AND MODULATE TO PROVIDE A MAU LEAVING AIR TEMPERATURE OF 80°F (ADJ).

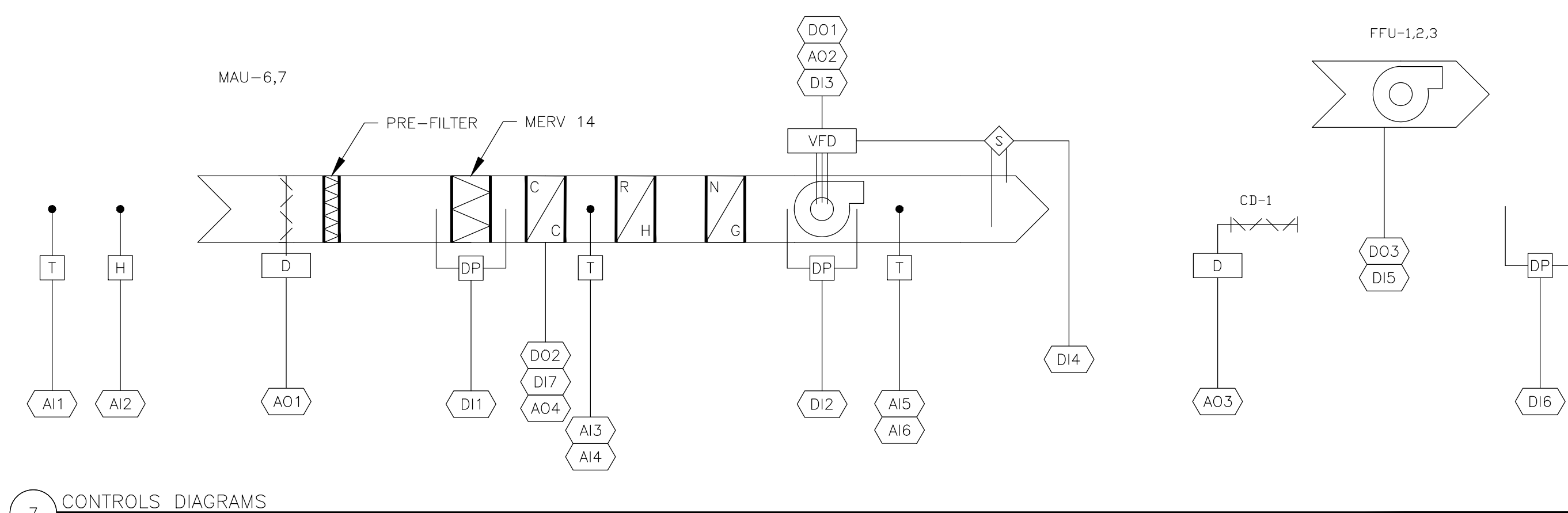
ALARMS:
IF THE MAU SMOKE DETECTOR IS ACTIVATED THE FAN SHALL SHUT DOWN VIA A HARD-WIRED INTERLOCK AND AN ALARM SHALL BE SENT TO THE FIRE ALARM CONTROL SYSTEM.

IF THE MAU FAN IS COMMANDED ON AND NO CURRENT IS REALIZED THROUGH A CURRENT RELAY SENSOR, AN ALARM SHALL BE GENERATED AT THE BAS. FFUs SHALL NOT ENERGIZE IF MAU FAN IS NOT OPERATING.

IF THE FFU FAN IS COMMANDED ON AND NO CURRENT IS REALIZED THROUGH A CURRENT RELAY SENSOR, AN ALARM SHALL BE GENERATED AT THE BAS.

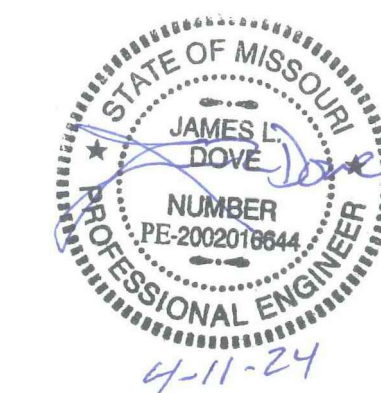


CONTROL LEGEND	
	VARIABLE SPEED FAN
	FILTER
	REFRIGERANT COOLING COIL
	MODULATING HOT-GAS REHEAT COIL
	NATURAL GAS HEATING COIL
	CONTROL DAMPER
	TEMPERATURE SENSOR
	RELATIVE HUMIDITY SENSOR
	DIFFERENTIAL PRESSURE SENSOR



ANALOG INPUTS	
AI1	OUTSIDE AIR TEMPERATURE
AI2	OUTSIDE AIR RELATIVE HUMIDITY
AI3	COOLING COIL (CC) LEAVING AIR TEMPERATURE
AI4	CC LEAVING AIR TEMPERATURE SETPOINT
AI5	UNIT LEAVING AIR TEMPERATURE
AI6	UNIT LEAVING AIR TEMPERATURE SETPOINT
ANALOG OUTPUTS	
AO1	OUTSIDE AIR DAMPER COMMAND
AO2	SUPPLY FAN SPEED
AO3	HEAT PUMP RETURN AIR DAMPER COMMAND
AO4	COMPRESSOR SPEED

DIGITAL INPUTS	
DI1	FILTER PRESSURE DROP
DI2	SUPPLY FAN PRESSURE DROP
DI3	SUPPLY FAN STATUS
DI4	SMOKE DETECTOR STATUS
DI5	FAN FILTER UNIT STATUS
DI6	ROOM PRESSURE DIFFERENTIAL
DI7	COMPRESSOR STATUS
DIGITAL OUTPUTS	
DO1	SUPPLY FAN START/STOP COMMAND
DO2	COMPRESSOR START/STOP COMMAND
DO3	FAN FILTER UNIT START/STOP COMMAND



(N) INDICATES KEYED NOTES

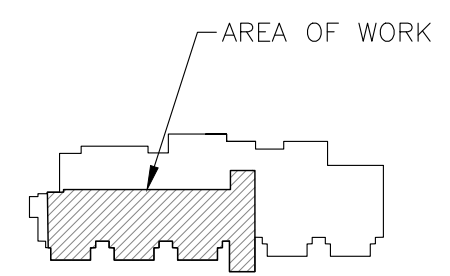
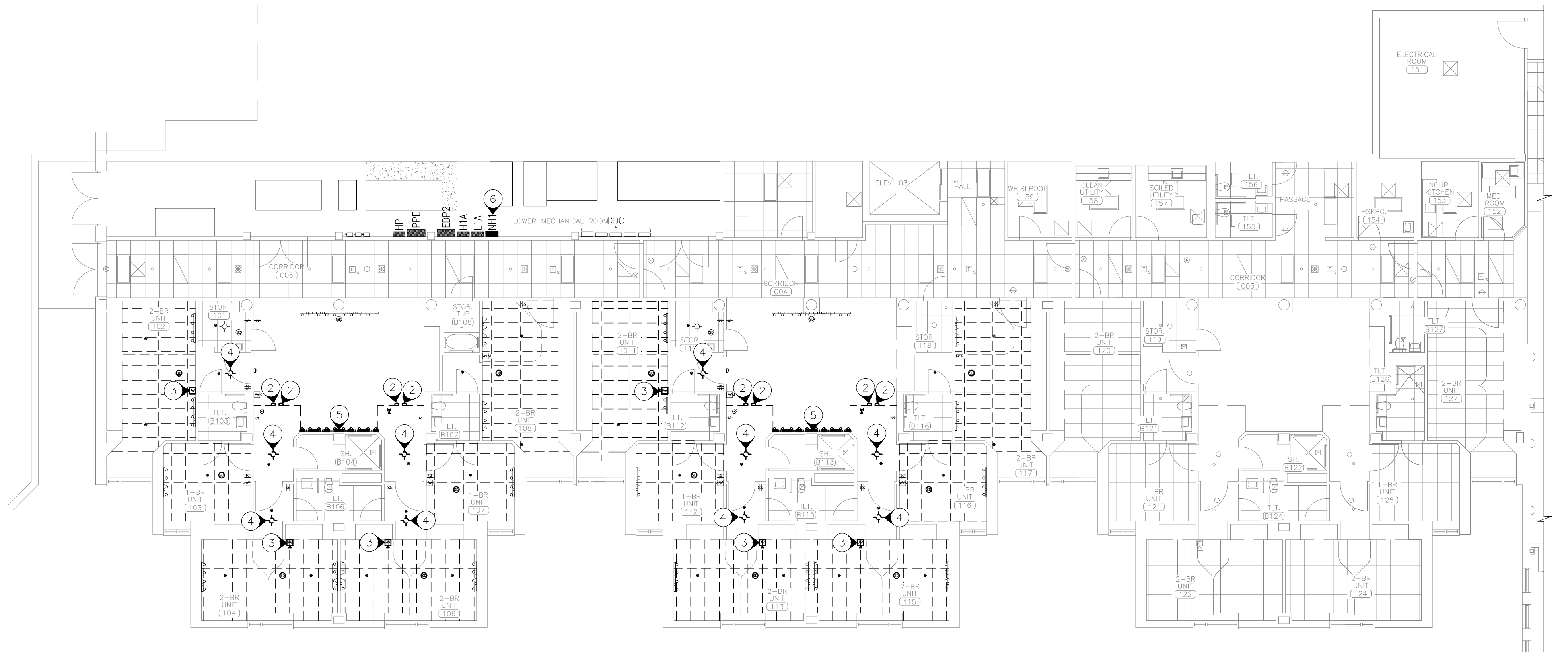
DEMOLITION NOTES

- 1 CEILINGS SHOWN DASHED AND DARKER ARE TO BE REMOVED COMPLETELY AND REPLACED WITH NEW LOWERED LAY-IN CEILING—SEE ARCHITECT SHEETS. ELC TO DISCONNECT AND REMOVE ALL CEILING MOUNTED DEVICES THAT REQUIRE POWER. COORDINATE WITH GENERAL CONTRACTOR TO HAVE STATE STAFF FORCES REMOVE AND REINSTALL ALL ACCESS POINTS AND SECURITY CAMERAS. ALL REMOVED DEVICES ARE TO BE CLEANED AND KEPT FOR REINSTALLATION IN NEW CEILING UNLESS NOTED. REMOVE ANY WALL MOUNTED DEVICES THAT ARE CONFLICTING WITH NEW LOWERED CEILING AND MOUNT LOWER ON WALL. EXTEND ALL WIRING AS NEEDED. ALL EXISTING LIGHTS THAT ARE WALL MOUNTED OR IN CEILINGS NOT BEING REPLACED SHALL REMAIN AS IS. ELC TO ENSURE ALL LIGHT SWITCH WIRES AND POWER WIRES AND CONDUITS ARE EXTENDED AS NEEDED. ALL DEVICES SHOWN ARE FROM FIELD TAKE-OFF AND EXISTING DRAWINGS AND MAY NOT BE 100 PERCENT ACCURATE. CONTRACTOR TO VERIFY ALL ITEMS.
- 2 ELECTRICAL CONTRACTOR (ELC) TO REMOVE AND CLEAN THIS NURSE CALL LIGHT AND RETAIN FOR INSTALLATION ON NEW CEILING EXTENSION. NO WORK ON THE CONTROLS.
- 3 WALL MOUNTED AUDIO/VISUAL FIRE ALARM DEVICE TO BE RELOCATED LOWER ON WALL. EXTEND WIRING AS NEEDED. THE REMAINING WALL MOUNTED AUDIO/VISUAL DEVICES SHOWN SHALL BE EVALUATED BY OWNER TO BE LOWERED AS NEEDED. ALL CEILING MOUNTED DEVICES TO BE REMOVED, CLEANED AND REPLACED IN NEW CEILING. COORDINATE WITH MECHANICAL.
- 4 EXISTING LIGHT FIXTURE TO BE DEMOLISHED. LIGHT TO BE REPLACED WITH NEW. SEE SHEET E-102.
- 5 REMOVE THIS LIGHT FIXTURE, WIRE AND CONDUIT TO NEXT ACTIVE DEVICE OR JUNCTION BOX.
- 6 THIS PANEL TO BE REPLACED. ELC TO DISCONNECT POWER TO PANEL "NH1" AND TEMPORARILY REMOVE BREAKERS, CLEAN AND SET ASIDE FOR ALL ROUGH IN WORK TO BE DONE UP FRONT TO HELP MINIMIZE DOWN TIME. POWER FROM THIS PANEL FEEDS ALL CORRIDOR HVAC LOADS ON THE WEST HALF OF THE BUILDING ALONG WITH ELEVATOR ROOM AND RESTROOMS. COORDINATE WITH OWNER ON TIMING TO SWITCH OVER TO NEW PANEL. TIMING SHALL BE CONSIDERED CRITICAL AND CONTRACTOR SHALL HAVE ADEQUATE LABOR FORCE TO PERFORM PANEL CHANGE OVER AS FAST AS REASONABLY POSSIBLE TO GET HVAC UNITS BACK UP AND RUNNING. SEE SHEET E-501.

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ELECTRICAL LEGEND

	EXISTING RECESSED CAN LIGHT (TO REMAIN)
	EX. RECESSED CAN LIGHT (TO BE REMOVED)
	EXISTING WALL MOUNTED TRACK LIGHT (TO REMAIN)
	EXISTING WALL MOUNTED TRACK LIGHT (TO BE REMOVED)
	EXISTING NURSE CALL LIGHT (TO BE REMOVED)
	SPRINKLER HEAD—(REMOVED BY OTHERS)
	EXISTING LIGHT SWITCH (TO REMAIN)
	SECURITY CAMERA (REMOVED BY OTHERS)
	AUDIO/VISUAL DEVICE (TO REMAIN)
	AUDIO/VISUAL DEVICE (COORDINATE REMOVAL)
	SMOKE DETECTOR (TO REMAIN)
	SMOKE DETECTOR (REMOVE)
	WIFI ACCESS POINT (REMOVED BY OTHERS)
	EXISTING RECEPTACLE (TO REMAIN)
	EXISTING OUTLET TO BE REMOVED EXTEND EXISTING CIRCUIT
	NEW DUPLEX RECEPT.— 120V GROUNDING TYPE MATCH EXISTING HEIGHT ABOVE FLOOR U.N.O.
	NEW GFI QUAD RECEPTACLE
	EXISTING SURFACE MOUNTED PANELBOARD
	HOME RUN—SHORT STROKES INDICATE PHASE OR SWITCHED WIRES, LONG STROKE INDICATE NEUTRAL, LONG WITH DOT INDICATE GROUND



PARTIAL FIRST FLOOR PLAN
ELECTRICAL DEMOLITION
SCALE: 3/32"=1'-0"

KEY MAP
SCALE: 1"=200'

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MISSOURI VETERANS
COMMISSION

HVAC IMPROVEMENTS FOR
INFECTION CONTROL

MEXICO VETERANS
HOME
#1 VETERANS' DRIVE
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

REVISION: _____
DATE: _____
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REVISION: _____
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ISSUE DATE: _____

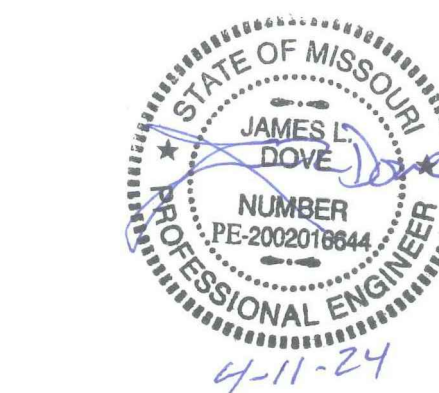
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SHEET TITLE:
FIRST FLOOR
ELECTRICAL
DEMOLITION PLAN

SHEET NUMBER:

E-101

23 OF 28 SHEETS
04/11/2024



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**FIRST FLOOR
ELECTRICAL
RENOVATION PLAN**

SHEET NUMBER:

E-102

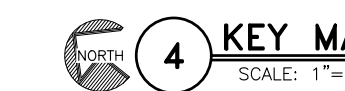
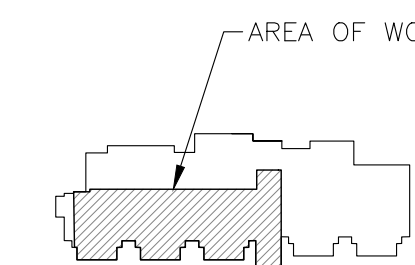
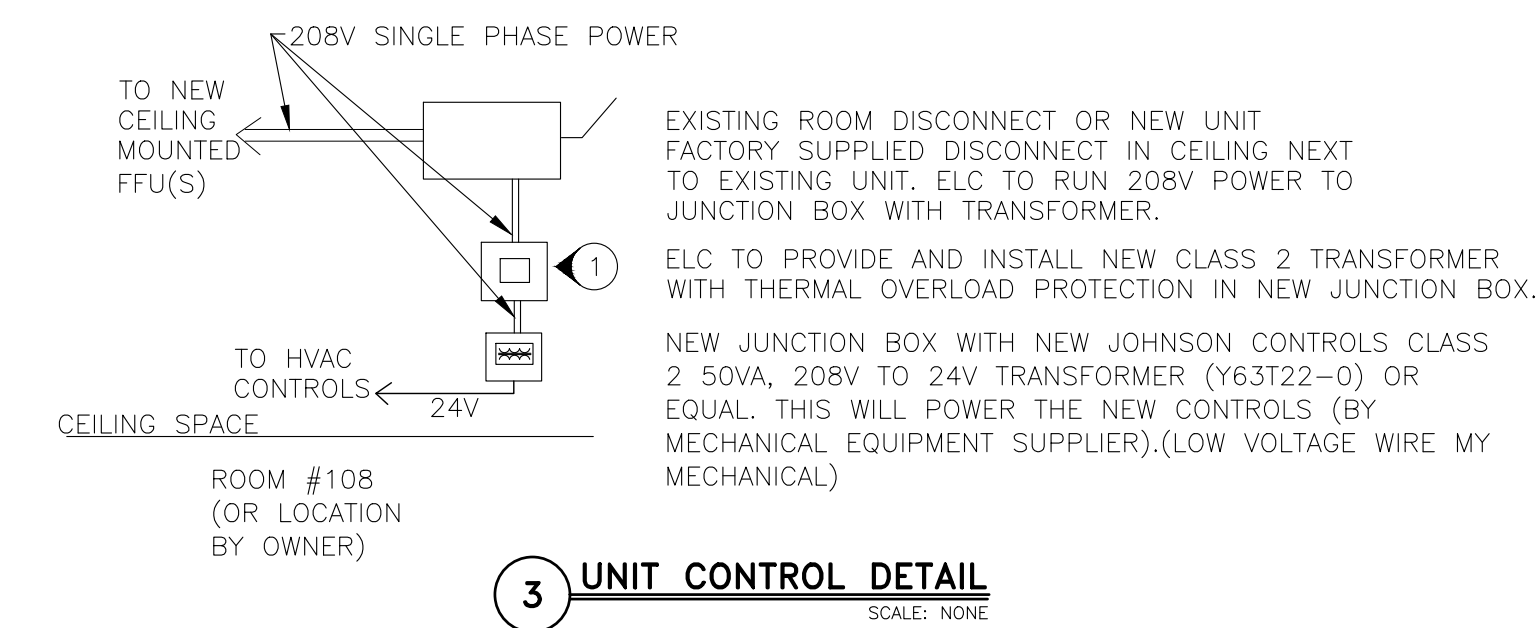
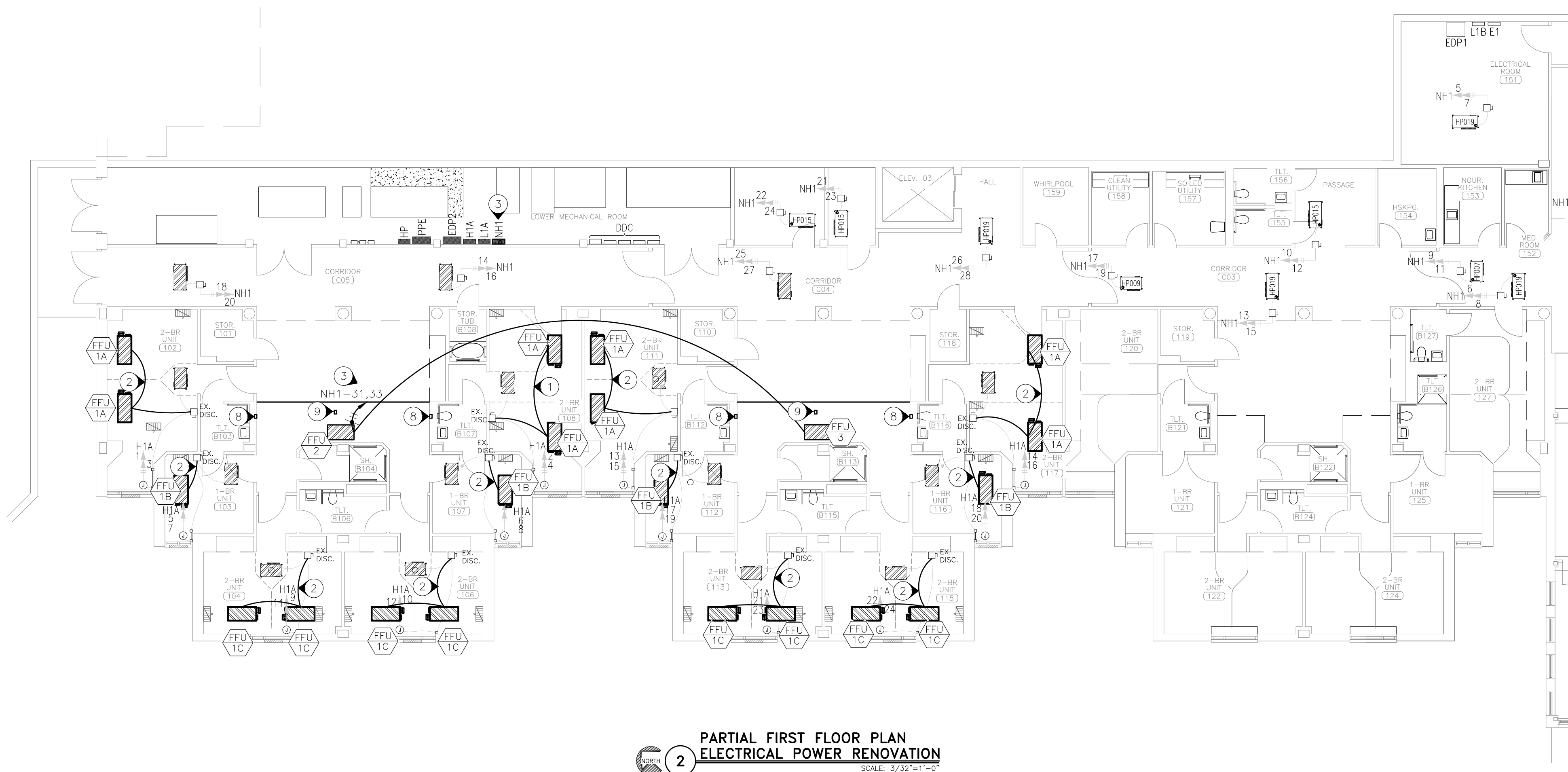
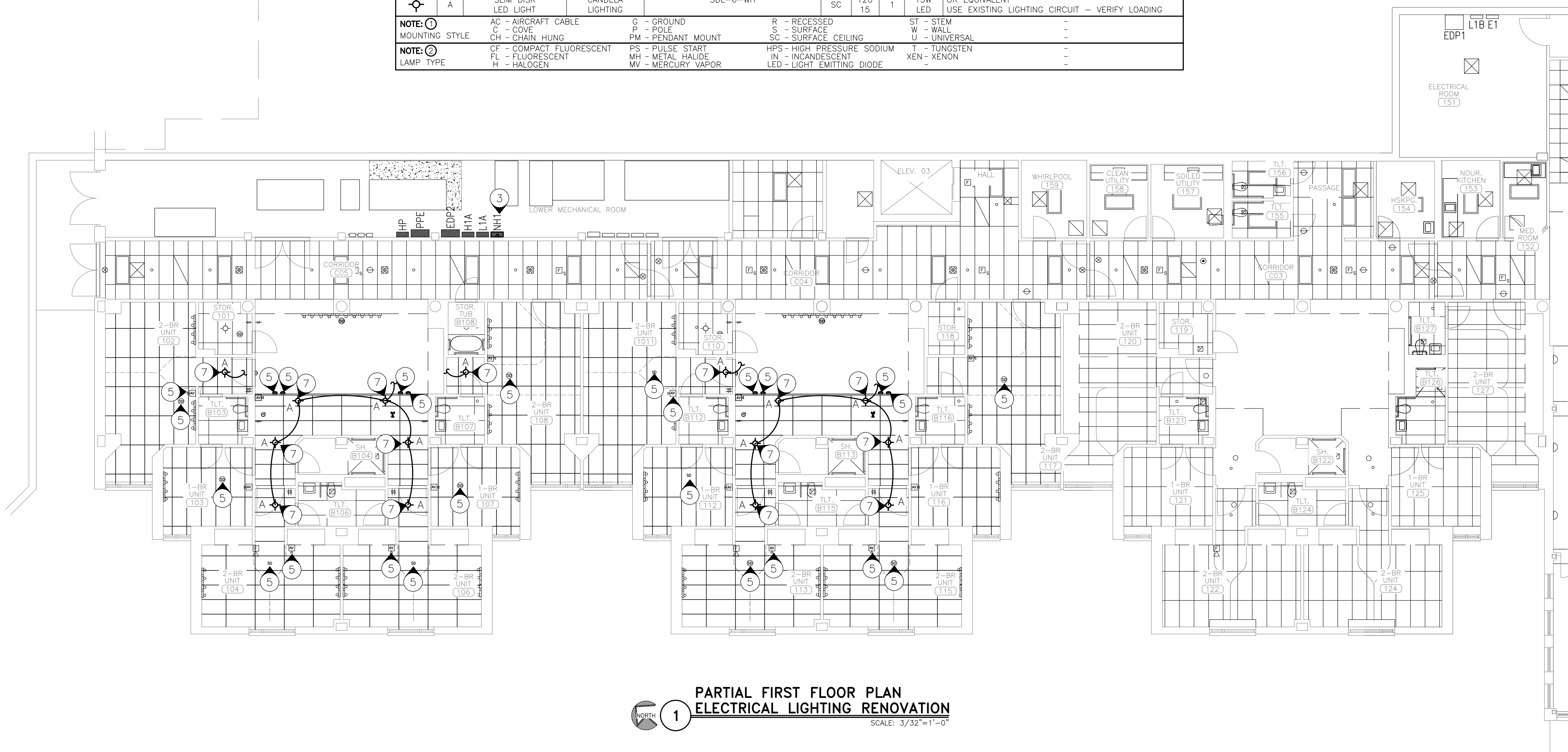
24 OF 28 SHEETS
04/11/2024

CONSTRUCTION NOTES

(N) INDICATES KEYED NOTES

- 1 ELECTRICAL CONTRACTOR (ELC) SHALL RUN (2) #12 CU THHN AND (1) #12 CU GROUND IN (1) 1/2" EMT FROM NEW FFU TO EXISTING HVAC UNIT DISCONNECT. DISCONNECT LOCATION TO BE VERIFIED IN THE FIELD. ELC SHALL INSTALL CLASS 2 TRANSFORMER WITH OVERLOAD PROTECTION TO PROTECT NEW CONTROLS TRANSFORMER. INSTALL A JUNCTION BOX WITH A 208V TO 24V TRANSFORMER DOWNSTREAM, ABOVE THE CEILING FOR CONTROLS. THE TRANSFORMER WILL POWER NEW CONTROLLER FOR UNIT. MECHANICAL CONTRACTOR TO PROVIDE ALL LOW VOLTAGE WIRING. COORDINATE WITH MECHANICAL TO SIZE TRANSFORMER.
- 2 ELC SHALL RUN (2) #12 CU THHN AND (1) #12 CU GROUND IN (1) 1/2" EMT FROM NEW UNIT TO EXISTING ROOM CIRCUIT DISCONNECT. EXISTING CIRCUITING TO REMAIN. DISCONNECT LOCATION TO BE VERIFIED IN THE FIELD.
- 3 ELC TO RUN (2) #12 CU THHN AND (1) #12 CU GROUND IN (1) 1/2" EMT FROM FFU-2 FACTORY DISCONNECT TO NEW PANEL "NH1". ROUTE TO FACTORY DISCONNECT AT NEW FFU-3. SEE SHEETS E-103 E-501 AND E-601. MAKE CONTROL MODIFICATIONS AS NEEDED. ADD 20A/2P BREAKER IN "NH1" FOR THE NEW UNITS.
- 4 ELECTRICAL CONTRACTOR (ELC) IS TO SUPPLY AND INSTALL ALL CONDUIT AND ALL LINE VOLTAGE WIRING. COORDINATE WITH MECHANICAL CONTRACTOR TO RUN ALL CONDUIT AND ANY WALL BOXES FOR MECHANICAL SYSTEM LOW VOLTAGE WIRING. MECHANICAL CONTRACTOR TO RUN ALL LOW VOLTAGE WIRE.
- 5 DEVICE SALVAGED AND CLEANED DURING DEMO PHASE TO BE INSTALLED HERE. ALL WIRING AND CONDUIT TO BE EXTENDED AS NEEDED.
- 6 ALL CIRCUITING SHOWN IS FROM DRAWINGS OBTAINED FROM THE STATE OF MISSOURI AND HAVE NOT BEEN VERIFIED FOR ACCURACY. CIRCUITING SHOWN DOES NOT AGREE WITH PANEL SCHEDULES. ELC SHALL VERIFY ALL EXISTING CIRCUITING.
- 7 ELC TO INSTALL NEW SURFACE MOUNTED LED LIGHT FIXTURE IN THIS LOCATION. CIRCUIT TO EXISTING LIGHTING CIRCUIT. SWITCHING TO REMAIN AS IS. EXTEND WIRE AND CONDUIT AS NEEDED. ELC TO VERIFY LOADING.
- 8 ELC TO PROVIDE AND INSTALL A 3-GANG CUT-IN BOX FOR NEW PRESSURE CONTROL SYSTEM MONITOR (RPM20) AT EACH LOCATION SHOWN ON MECHANICAL SHEET M-105 (4 TOTAL). COORDINATE WITH MECHANICAL SHEETS AND CONTROLS CONTRACTOR FOR EXACT LOCATIONS.
- 9 PROVIDE AND INSTALL A 4-SQUARE JUNCTION BOX ABOVE CEILING NEAR CENTER OF ROOM AND INSTALL (1) 120V TO 24V 30W OUTPUT TRANSFORMER FOR MONITOR POWER. EACH LOW VOLTAGE TRANSFORMER WILL PROVIDE POWER FOR (2) MONITORS. MECHANICAL AND CONTROLS CONTRACTOR TO RUN ALL LOW VOLTAGE WIRE TO THE PRESSURE SENSORS ABOVE THE DOORS AND ELC TO PROVIDE ANY NEEDED CONDUIT. CIRCUIT FROM EXISTING ROOM LIGHT OR OUTLET POWER.

LIGHTING FIXTURE SCHEDULE									
FIXTURE DATA					LAMP DATA				
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MTG	VOLTS	LAMP QTY	WATTS	REMARK	
◆	A	SUM DISK LED LIGHT	CANDELA LIGHTING	SDL-6-WH	SC	120	1	15W LED	OR EQUIVALENT USE EXISTING LIGHTING CIRCUIT - VERIFY LOADING
NOTE: (1)	AC	AIRCRAFT CABLE	G	GROUND	R	RECESSED			
	CH	CHAIN HUNG	P	POLE	S	SURFACE			
	CF	COMPACT FLUORESCENT	PM	PENDANT MOUNT	SC	SURFACE CEILING			
NOTE: (2)	CF	COMPACT FLUORESCENT	PS	PULSE START	HPS	HIGH PRESSURE SODIUM			
	FL	FLUORESCENT	MH	METAL HALIDE	IV	INCANDESCENT			
	HL	HALOGEN	MV	MERCURY VAPOR	LED	LIGHT EMITTING DIODE			
					T	TUNGSTEN			
					XEN	XENON			





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DESIGNED BY: JLD

SHEET TITLE:
**SECOND AND THIRD
FLOOR ELECTRICAL
RENOVATION PLAN**

SHEET NUMBER:

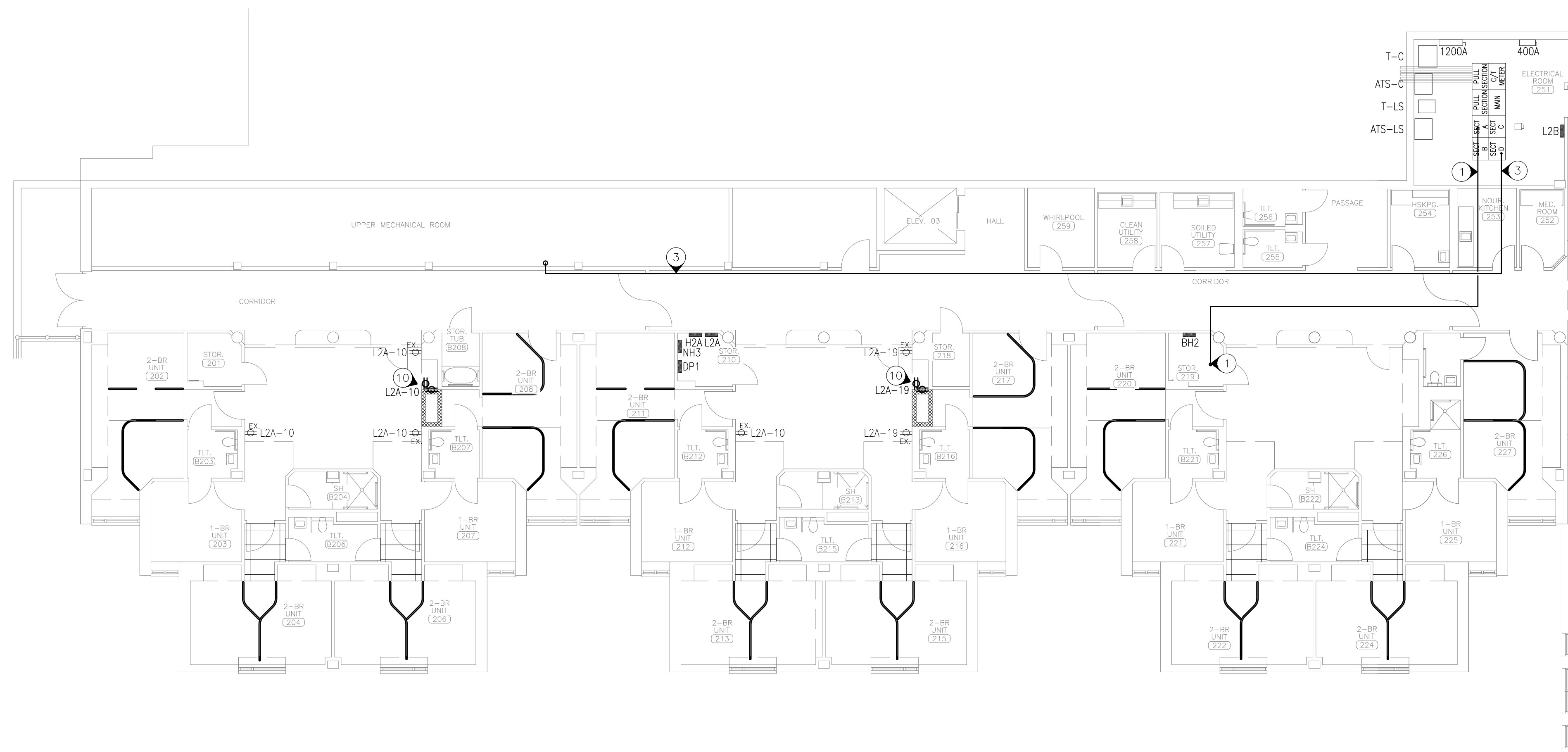
E-103

25 OF 28 SHEETS
04/11/2024

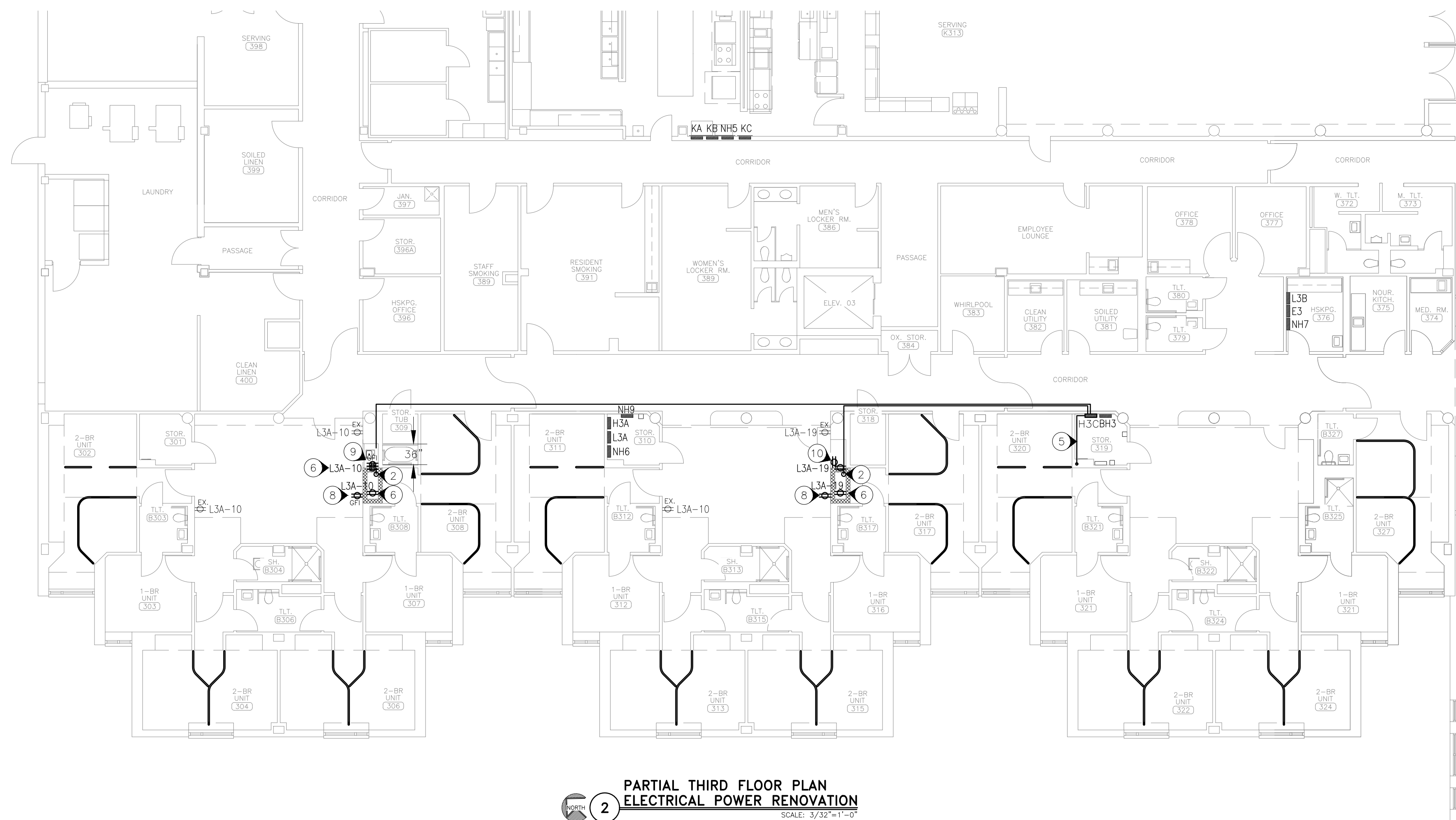
CONSTRUCTION NOTES

INDICATES KEYED NOTES

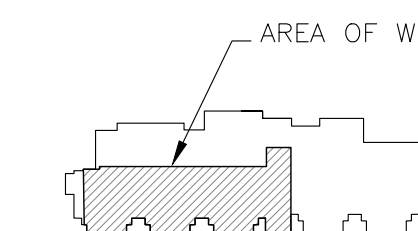
- 1 ELC TO UTILIZE 200A SPARE IN SECTION "A" OF 4000A MAIN DISTRIBUTION PANEL AS SHOWN ON RISER DETAIL TO FEED NEW 200A 3P ELECTRICAL PANEL "H3C" ON THE THIRD FLOOR TO FEED POWER TO THE TWO NEW MAKEUP AIR UNITS (FACTORY INSTALLED DISCONNECT). RUN (3) 4/0 CU THWN AND (1) 3/0 CU THWN AND (1) #6 CU GROUND IN (1) 2" CONDUIT TO STORAGE ROOM 219 AND UP CHASE TO THIRD FLOOR. SEE SHEET E-501 FOR RISER INFORMATION.
- 2 ELC TO RUN (3) #8 CU THHN, (1) #10 CU THHN AND (1) #10 CU GROUND IN (1) 1" EMT FROM NEW ROOF MOUNTED MAKEUP AIR UNIT (FED THRU CHASE FOR UNIT DUCTWORK) TO NEW PANEL "H3C". PROVIDE NEW 60A 3P BREAKERS AND 20A SPARES IN PANEL. USE RUBBER BOOT AT CONDUIT PENETRATION ON ROOF. SEAL PENETRATIONS TO WATER TIGHT CONDITION. COORDINATE WITH MECHANICAL EQUIPMENT. SEE M106.
- 3 RUN (3) 4/0 CU THWN AND (1) 3/0 CU THWN AND (1) #6 CU GROUND IN (1) 2" CONDUIT FROM 200A SPARE IN SECTION "D" OF 4000A MAIN DISTRIBUTION PANEL TO NEW PANEL "NH1" IN THE ELECTRIC ROOM ON FIRST FLOOR. SEE SHEETS E-102 AND E-501.
- 4 CONTRACTOR SHALL VERIFY WITH OWNER ON TIMELINE OF CONSTRUCTION ACTIVITIES TO MINIMIZE DISRUPTION TO OWNER'S STAFF OPERATIONS.
- 5 SEE NOTE 1 ABOVE. RUN (3) 4/0 CU THWN AND (1) 3/0 CU THWN AND (1) #6 CU GROUND IN (1) 2" CONDUIT ABOVE FROM CHASE AND ABOVE CEILING TO NEW 225A ELECTRIC PANEL "H3C". SEE SHEET E-501 FOR RISER INFORMATION.
- 6 THIS EXISTING OUTLET IS TO BE REMOVED. TEMPORARILY WIRE NUT AND TAPE WIRE AS NEEDED. EXISTING CIRCUIT TO BE EXTENDED TO NEW OUTLET. COORDINATE WITH GENERAL CONTRACTOR TO REPAIR WALL.
- 7 IF ANY MECHANICAL OR ELECTRICAL EQUIPMENT SPECIFIED IN THE DRAWINGS IS SUBSTITUTED BY A CONTRACTOR, THAT CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE EQUIPMENT'S ELECTRICAL PROTECTION PER THE MANUFACTURER'S NAMEPLATE, AND THE CURRENT NEC, ALONG WITH ALL EXPENSES INCURRED DUE TO SAID SUBSTITUTION. THE CONTRACTOR WHO IS PROVIDING THE SUBSTITUTION SHALL COORDINATE WITH ALL DISCIPLINES AFFECTED BY THIS CHANGE.
- 8 PROVIDE AND INSTALL NEW OUTLET AT 24" AFF ON NEW FIRE WALL FOR CHASE. SEE PLAN TO DETERMINE IF OUTLET IS GFI. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. OUTLET ON NEW CHASE WALL TO RECEIVE 3M FIRE BARRIER MOLDABLE PUTTY PADS MPP+. FORM PAD AROUND THE ENTIRE BOX AND ALL BOX CONDUITS AND WIRES SO AS TO LEAVE NO OPENINGS. EXTEND EXISTING CIRCUIT.
- 9 PROVIDE AND INSTALL A NEW GFI QUAD OUTLET AT 36" FROM END OF WALL AT 44" AFF. COORDINATE WITH ARCHITECTURAL DRAWINGS AND SECTIONS. EXTEND EXISTING CIRCUIT FROM OUTLET REMOVED.
- 10 REMOVE EXISTING OUTLET. PLACE NEW OUTLET ON THE SHORT SIDE OF THE NEW FIRE WALL AS SHOWN AND AT SAME LOCATION ABOVE THE FLOOR. SEE NOTE 8 ABOVE FOR FIRE PUTTY INSTALLATION. EXTEND EXISTING CIRCUIT. COORDINATE WITH GENERAL CONTRACTOR TO HAVE WALL REPAIRED.

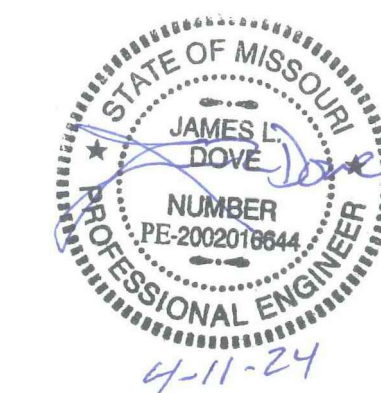


**1 PARTIAL SECOND FLOOR PLAN
ELECTRICAL POWER RENOVATION**
SCALE: 3/32"=1'-0"



**2 PARTIAL THIRD FLOOR PLAN
ELECTRICAL POWER RENOVATION**
SCALE: 3/32"=1'-0"





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CAD DWG FILE: MIFIC-e.dwg
DRAWN BY: MDS
CHECKED BY: JLD
DESIGNED BY: JLD

SHEET TITLE:
**ROOF ELECTRICAL
POWER
RENOVATION PLAN**

SHEET NUMBER:

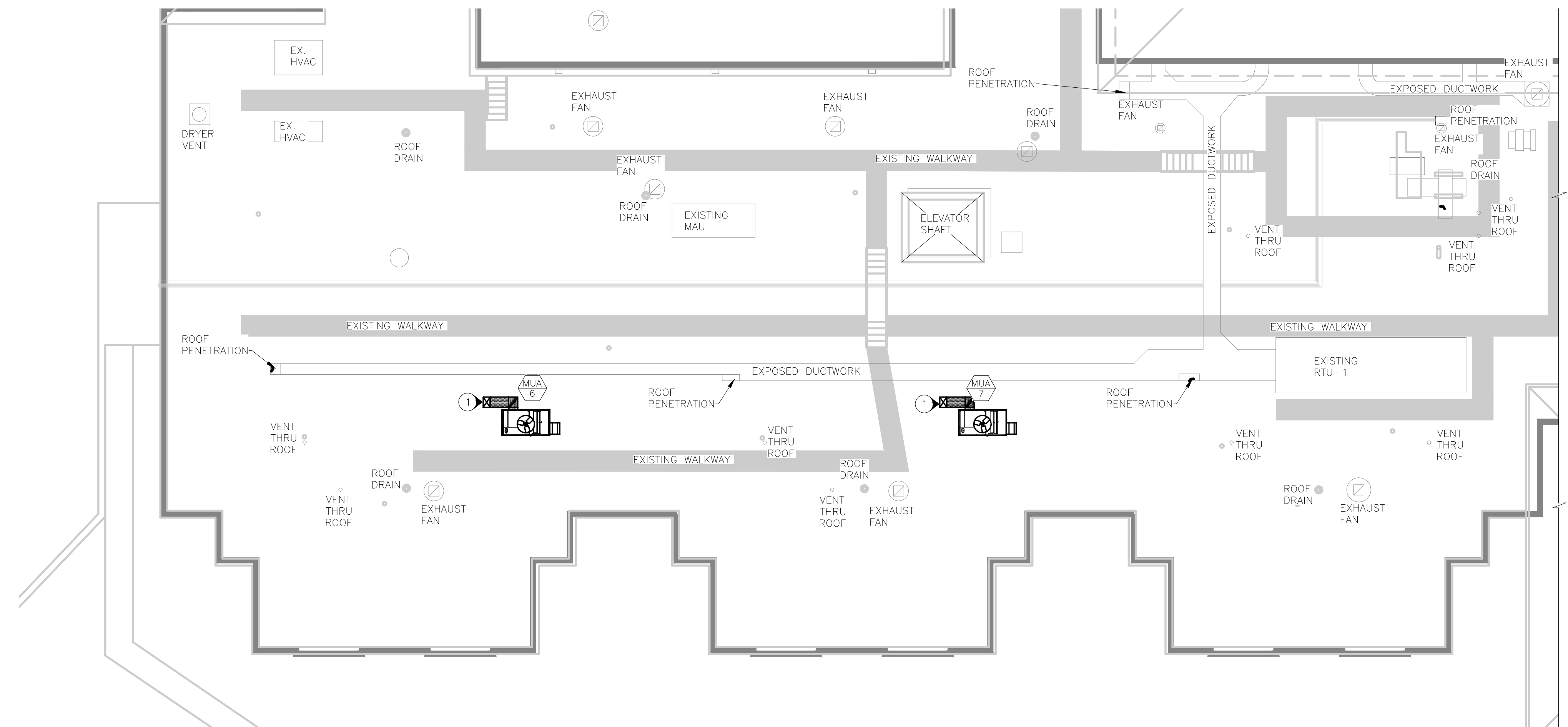
E-104

26 OF 28 SHEETS
04/11/2024

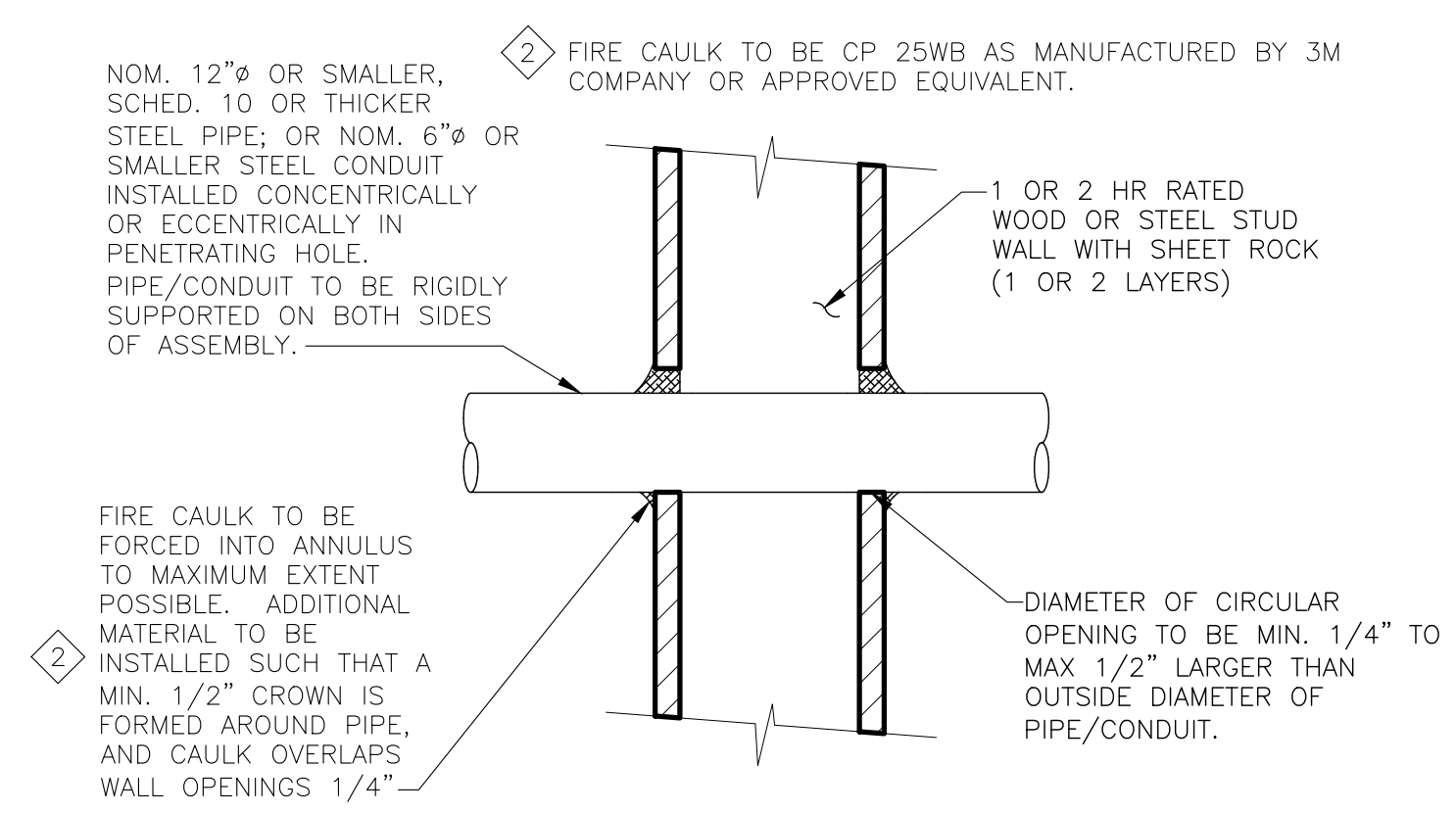
CONSTRUCTION NOTES

(N) INDICATES KEYED NOTES

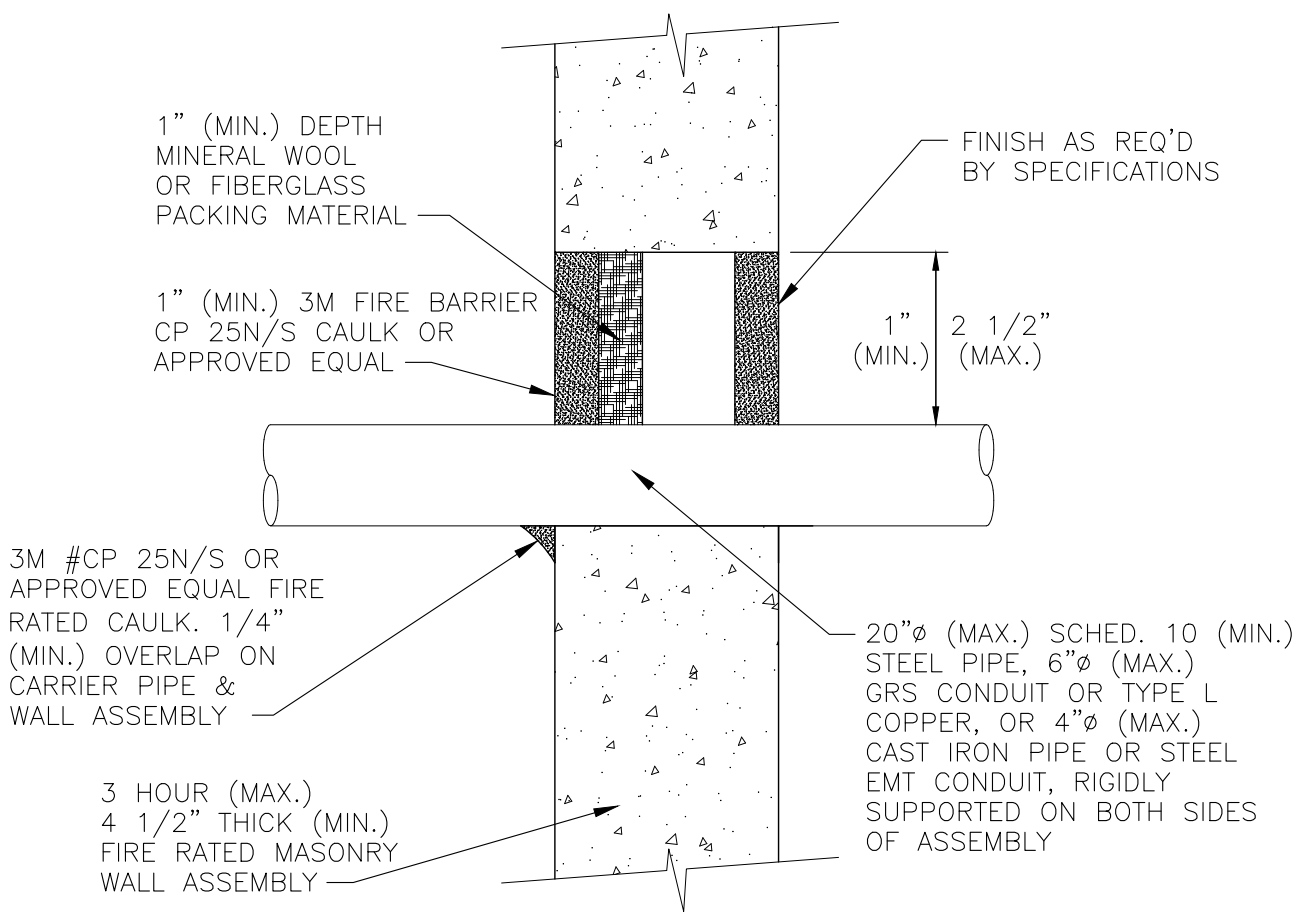
- 1 ELC TO RUN (2) #8 CU THHN, (1) #10 CU THHN AND (1) #10 CU GROUND IN (1) 1" EMT FROM NEW ROOF MOUNTED MAKEUP AIR UNIT (FED THRU OPENING FOR UNIT DUCTWORK) TO NEW PANEL "H3C" ON THIRD FLOOR. SEE SHEET E-103. PROVIDE NEW 60A/3P BREAKERS AND 20A/1P SPARES IN PANEL AS SHOWN ON E-601. COORDINATE WITH MECHANICAL CONTRACTOR TO RUN AN ADDITIONAL 1" CONDUIT FROM EACH UNIT DOWN TO ACCESSIBLE CEILING SPACE NEXT TO THE 1" POWER CONDUIT FOR CONTROL WIRING. COORDINATE WITH CONTROLS CONTRACTOR. USE RUBBER BOOT(S) AT CONDUIT PENETRATION ON ROOF. SEAL PENETRATIONS TO WATER TIGHT CONDITION. COORDINATE WITH GENERAL CONTRACTOR ON ROOF WARRANTY.



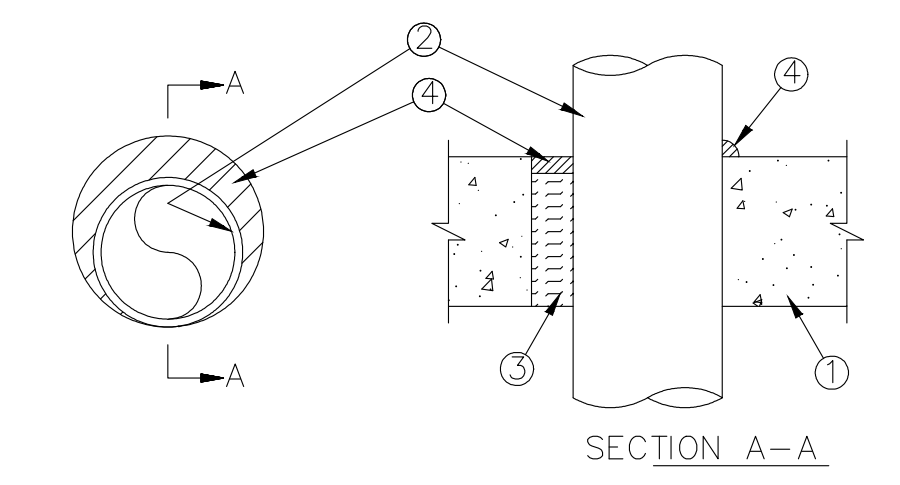
**1 PARTIAL ROOF PLAN
ELECTRICAL POWER RENOVATION**
SCALE: 3/32"=1'-0"



2 UNINSULATED CONDUIT THRU 1-2 HR FIRE RATED GYPSUM WALL ASSEMBLY DETAIL
U.L. SYSTEM #W-L-1085 NO SCALE

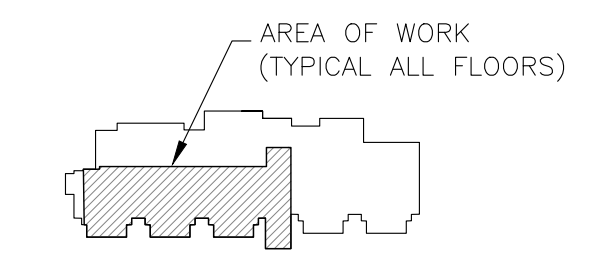


3 CONDUIT THROUGH FIRE RATED MASONRY WALL DETAIL
U.L. SYSTEM #C-AJ-1001 NO SCALE



- FLOOR OR WALL ASSEMBLY - MIN. 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS MAX. DIA. OF OPENING IS 12 IN.
- THROUGH PENETRATIONS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE 0 IN. TO MAX 1-1/4 IN. THE FOLLOWING TYPES OF SIZES OF METALLIC PIPES, CONDUIT OR TUBING MAY BE USED:
A. STEEL PIPE - NOM. 10 IN. DIA. OR SMALLER SCHEDULE 10 OR HEAVIER STEEL PIPE.
B. IRON PIPE - NOM. 10 IN. DIA. OR SMALLER CAST OR DUCTILE IRON PIPE.
C. CONDUIT - NOM. 4 IN. DIA. OR SMALLER STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.
D. COPPER TUBING - NOM. 4 IN. DIA. OR SMALLER TYPE L OR HEAVIER COPPER TUBING.
E. COPPER PIPE - NOM. 4 IN. DIA. OR SMALLER REGULAR OR HEAVIER COPPER PIPE.
- PACKING MATERIAL - MIN. 3 IN. THICKNESS OF MIN. 4 PCF MINERAL WOOL BATT INSULATION FOR NOM. 4 IN. DIA. OR SMALLER PIPES, CONDUITS OR TUBINGS AND A MIN 4 IN. THICKNESS OF MIN. 4 PCF MINERAL WOOL BATT INSULATION FOR PIPE GREATER THAN NOM. 4 IN. DIA. FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID OR CAVITY MATERIAL - SEALANT - MIN. 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. AT THE POINT OF CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MIN. 1/2 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CP601S OR CP604 SEALANT IS USED.

4 2 HR METALLIC PIPE THROUGH CONCRETE FIRE RATED PENETRATION
U.L. SYSTEM: C-AJ-1175 NO SCALE

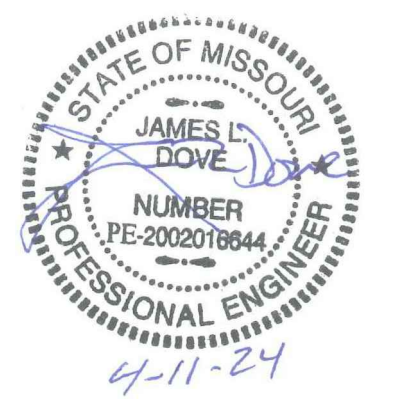
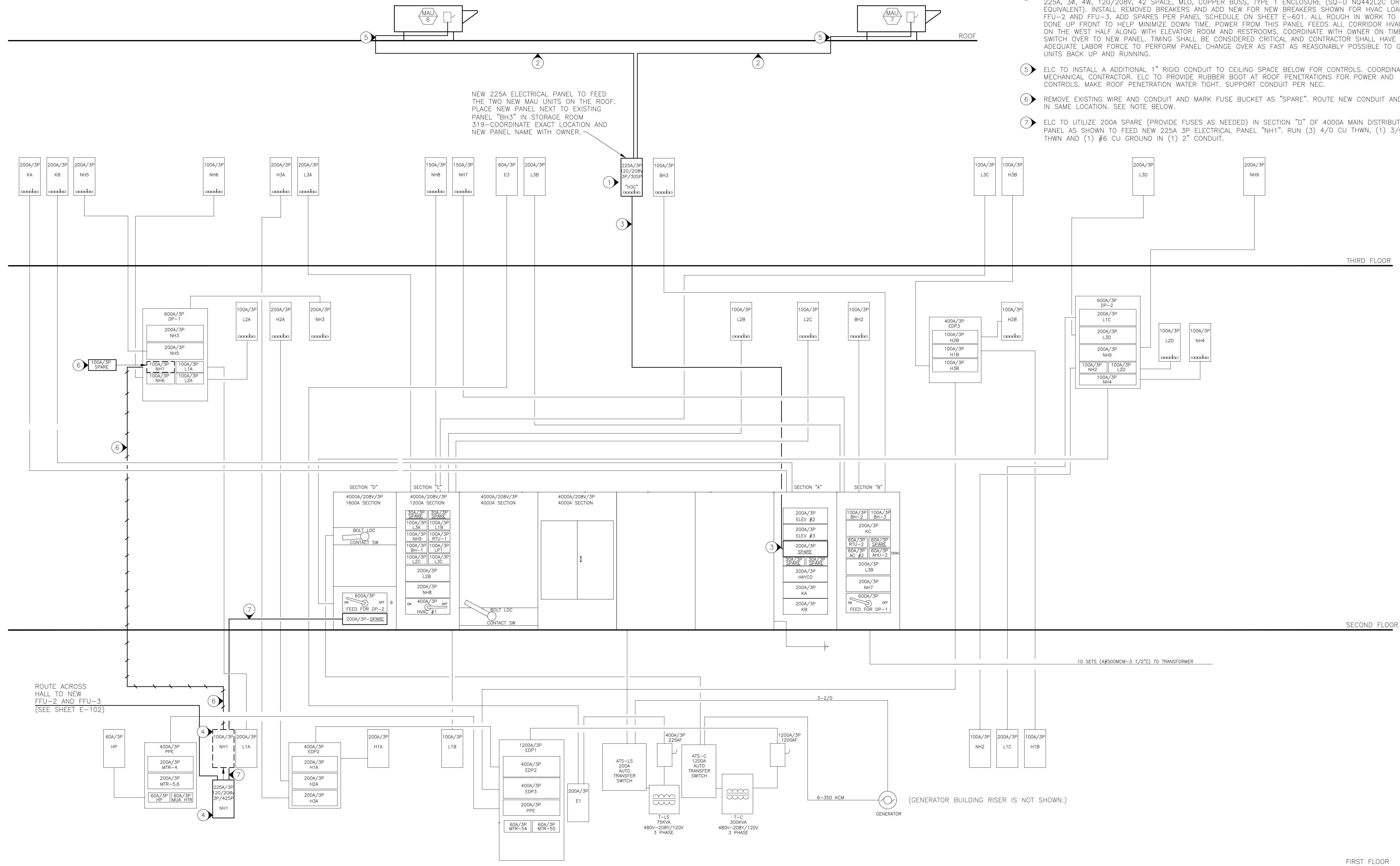


5 KEY MAP
SCALE: 1"=200'

CONSTRUCTION NOTES

(N) INDICATES KEYED NOTES

- 1 ELC TO PROVIDE AND INSTALL NEW 225A, 3Ø, 4W, 120/208V, 3Ø SPACE, MLO, COPPER BUSS, TYPE 1 ENCLOSURE (SQ-D NQ430L2C OR EQUIVALENT) "H3C" IN THIS MECHANICAL ROOM. PROVIDE NAMEPLATE. NAMEPLATE SHALL BE TWO-LAYER OR THREE-LAYER LAMINATED ACRYLIC OR ELECTRICALLY NON-CONDUCTIVE PHENOLIC WITH BEVELED EDGES AND A MIN. THICKNESS OF 1/16 INCH AND ENGRAVED. PROVIDE TYPED PANEL SCHEDULE IN PLASTIC SLEEVE ATTACHED TO THE INSIDE OF THE DOOR.
- 2 ELC TO RUN (3) #8 CU THHN, (1) #10 CU THHN AND (1) #10 CU GROUND IN (1) 1" EMT/RIGID CONDUIT TO NEW MAKEUP AIR UNITS 6 AND 7. (FED THRU ROOF NEXT TO DUCT PENETRATION) FROM NEW PANEL H3C. PROVIDE A NEW 60A 3Ø BREAKER IN NEW PANEL TO POWER EACH ROOF MOUNTED MAKE-UP AIR UNIT. ELC TO SEAL ROOF PENETRATION TO WATER PROOF CONDITION. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3 ELC TO UTILIZE 200A SPARE (PROVIDE FUSES AS NEEDED) IN SECTION "A" OF 4000A MAIN DISTRIBUTION PANEL AS SHOWN ON RISER DETAIL TO FEED NEW 225A 3Ø ELECTRICAL PANEL ON THE THIRD FLOOR TO FEED POWER TO THE TWO NEW MAKEUP AIR UNITS FACTORY INSTALLED DISCONNECTS. RUN (3) 4/0 CU THWN, (1) 3/0 CU THWN AND (1) #6 CU GROUND IN (1) 2" CONDUIT. SEE SHEET E-103 FOR ROUTING AND PANEL LOCATION.
- 4 ELC DISCONNECT POWER TO PANEL "NH1" AND TEMPORARILY REMOVE BREAKERS. SUPPLY AND INSTALL NEW 225A, 3Ø, 4W, 120/208V, 4Ø SPACE, MLO, COPPER BUSS, TYPE 1 ENCLOSURE (SQ-D NQ442L2C OR EQUIVALENT). INSTALL REMOVED BREAKERS AND ADD NEW FOR NEW BREAKERS SHOWN FOR HVAC LOADS FFU-2 AND FFU-3. ADD SPARES PER PANEL SCHEDULE ON SHEET E-601. ALL ROUGH IN WORK TO BE DONE UP FRONT TO HELP MINIMIZE DOWN TIME. POWER FROM THIS PANEL FEEDS ALL CORRIDOR HVAC LOADS ON THE WEST HALF ALONG WITH ELEVATOR ROOM AND RESTROOMS. COORDINATE WITH OWNER ON TIME TO SWITCH OVER TO NEW PANEL. TIMING SHALL BE CONSIDERED CRITICAL AND CONTRACTOR SHALL HAVE ADEQUATE LABOR FORCE TO PERFORM PANEL CHANGE OVER AS FAST AS REASONABLY POSSIBLE TO GET HVAC UNITS BACK UP AND RUNNING.
- 5 ELC TO INSTALL A ADDITIONAL 1" RIGID CONDUIT TO CEILING SPACE BELOW FOR CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR. ELC TO PROVIDE RUBBER BOOT AT ROOF PENETRATIONS FOR POWER AND CONTROLS. MAKE ROOF PENETRATION WATER TIGHT. SUPPORT CONDUIT PER NEC.
- 6 REMOVE EXISTING WIRE AND CONDUIT AND MARK FUSE BUCKET AS "SPARE". ROUTE NEW CONDUIT AND WIRE IN SAME LOCATION. SEE NOTE BELOW.
- 7 ELC TO UTILIZE 200A SPARE (PROVIDE FUSES AS NEEDED) IN SECTION "D" OF 4000A MAIN DISTRIBUTION PANEL AS SHOWN TO FEED NEW 225A 3Ø ELECTRICAL PANEL "NH1". RUN (3) 4/0 CU THWN, (1) 3/0 CU THWN AND (1) #6 CU GROUND IN (1) 2" CONDUIT.



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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MISSOURI VETERANS
COMMISSION

HVAC IMPROVEMENTS FOR
INFECTION CONTROL

MEXICO VETERANS
HOME
#1 VETERANS' DRIVE
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

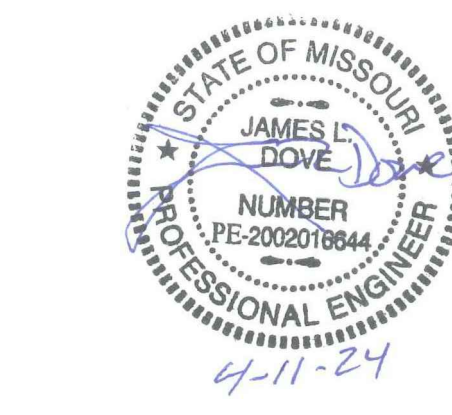
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DRAWN BY: MDS
CHECKED BY: JLD
DESIGNED BY: JLD

SHEET TITLE:
**ELECTRICAL
RISER
DETAIL**

SHEET NUMBER:

E-501



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MISSOURI VETERANS
COMMISSION

HVAC IMPROVEMENTS FOR
INFECTION CONTROL

MEXICO VETERANS
HOME
#1 VETERANS' DRIVE
MEXICO, MO 65265

PROJECT # U2301-03
SITE # 6802
ASSET # 8136802001

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DESIGNED BY: JLD

SHEET TITLE:
**ELECTRICAL
PANEL
SCHEDULES**

SHEET NUMBER:

E-601

28 OF 28 SHEETS
04/11/2024

NOTES

- ALL NEW ELECTRICAL PANELS ARE TO HAVE NEW PANEL SCHEDULES. EACH SCHEDULE SHALL BE TYPED OUT AND PLACED IN PANEL WITH PROTECTIVE SLEEVE.
- ALL NEW ELECTRICAL PANELS ARE TO HAVE COPPER BUSSING. ALL NEW WIRE TO BE COPPER. NEW PANEL TO HAVE ENGRAVED NAMEPLATE, (PER SPECIFICATION SECTION 260553), AFFIXED TO EXTERIOR NEAR THE TOP CENTER OF THE PANEL.

THIS IS THE EXISTING PANEL "NH1" BEING REMOVED AND REPLACED WITH NEW 42 SPACE PANEL SHOWN BELOW

PANEL DESIGNATION: NH1															
VOLTAGE: 208 3PHASE 4WIRE											PANEL LOCATION: 1ST FLOOR MECHANICAL ROOM		TOTAL VOLTAMPS THIS PANEL	0	
MAINS: 100 A _CB X MLO											MOUNTING: _ FLUSH X SURFACE		PANEL SPACES: 30	TOTAL CONNECTED LOAD (AMPS)	0
CIRCUIT DESIGNATION	WIRE	TRIP	CONNECTED LOAD			CKT. NO.	CONNECTED LOAD			TRIP	WIRE	CIRCUIT DESIGNATION			
			A	B	C		A	B	C						
HEAT PUMP IN CEILING & RM 156		20A/2P				1 2				15A/2P		H.P. IN CEILING & CORR. 1-050			
HEAT PUMP IN CEILING & RM 156						3 4						H.P. IN CEILING & CORR. 1-050			
HEAT PUMP IN CEILING & RM 157		20A/2P				5 6				20A/2P		H.P. IN CEILING & CORR. 1-050			
HEAT PUMP IN CEILING & RM 157						7 8						H.P. IN CEILING & CORR. 1-050			
H.P. IN CEILING & CORR. 1-050		15A/2P				9 10				20A/2P		H.P. IN CEILING & CORR. 1-094			
H.P. IN CEILING & CORR. 1-050						11 12						H.P. IN CEILING & CORR. 1-094			
H.P. IN CEILING & CORR. 1-049		20A/2P				13 14				20A/2P		H.P. IN CEILING & CORR. 1-001			
H.P. IN CEILING & CORR. 1-049						15 16						H.P. IN CEILING & CORR. 1-001			
H.P. IN CEILING & CORR. 1-049		15A/2P				17 18				20A/2P		H.P. IN CEILING & CORR. 1-001			
H.P. IN CEILING & CORR. 1-049						19 20						H.P. IN CEILING & CORR. 1-001			
HEAT PUMP IN ROOM 166		20A/2P				21 22				20A/2P		HEAT PUMP IN CEILING & RM 163			
HEAT PUMP IN ROOM 162						23 24						HEAT PUMP IN CEILING & RM 163			
H.P. IN CEILING & CORR. 1-033		20A/2P				25 26				20A/2P		H.P. IN CEILING & CORR. 1-033			
H.P. IN CEILING & CORR. 1-033						27 28						H.P. IN CEILING & CORR. 1-033			
HOT WATER HEATER (RES.+KIT.)		20A/1P				29 30				20A/1P		UNKNOWN (BREAKER IS ON)			
				0					0			PHASE A 0			
								0				PHASE B 0			
												PHASE C 0			

THIS IS THE NEW PANEL "NH1". ALL EXISTING LOADS TO BE TRANSFERRED. NEW LOADS SHOWN BOLDED. PANEL SCHEDULE SHALL BE REPLACED WITH NEW TYPED SCHEDULE. ELC TO UPDATE AS NEEDED.

PANEL DESIGNATION: NEW NH1															
VOLTAGE: 208 3PHASE 4WIRE											PANEL LOCATION: 1ST FLOOR MECHANICAL ROOM		TOTAL VOLTAMPS THIS PANEL	1790	
MAINS: 225 A _CB X MLO											MOUNTING: _ FLUSH X SURFACE		PANEL SPACES: 42	TOTAL CONNECTED LOAD (AMPS)	5
CIRCUIT DESIGNATION	WIRE	TRIP	CONNECTED LOAD			CKT. NO.	CONNECTED LOAD			TRIP	WIRE	CIRCUIT DESIGNATION			
			A	B	C		A	B	C						
HEAT PUMP IN CEILING & RM 156		20A/2P				1 2				15A/2P		H.P. IN CEILING & CORR. 1-050			
HEAT PUMP IN CEILING & RM 156						3 4						H.P. IN CEILING & CORR. 1-050			
HEAT PUMP IN CEILING & RM 157		20A/2P				5 6				20A/2P		H.P. IN CEILING & CORR. 1-050			
HEAT PUMP IN CEILING & RM 157						7 8						H.P. IN CEILING & CORR. 1-050			
H.P. IN CEILING & CORR. 1-050		15A/2P				9 10				20A/2P		H.P. IN CEILING & CORR. 1-094			
H.P. IN CEILING & CORR. 1-050						11 12						H.P. IN CEILING & CORR. 1-094			
H.P. IN CEILING & CORR. 1-049		20A/2P				13 14				20A/2P		H.P. IN CEILING & CORR. 1-001			
H.P. IN CEILING & CORR. 1-049						15 16						H.P. IN CEILING & CORR. 1-001			
H.P. IN CEILING & CORR. 1-049		15A/2P				17 18				20A/2P		H.P. IN CEILING & CORR. 1-001			
H.P. IN CEILING & CORR. 1-049						19 20						H.P. IN CEILING & CORR. 1-001			
HEAT PUMP IN ROOM 166		20A/2P				21 22				20A/2P		HEAT PUMP IN CEILING & RM 163			
HEAT PUMP IN ROOM 162						23 24						HEAT PUMP IN CEILING & RM 163			
H.P. IN CEILING & CORR. 1-033		20A/2P				25 26				20A/2P		H.P. IN CEILING & CORR. 1-033			
H.P. IN CEILING & CORR. 1-033						27 28						H.P. IN CEILING & CORR. 1-033			
HOT WATER HEATER (RES.+KIT.)		20A/1P				29 30				20A/1P		UNKNOWN (BREAKER IS ON)			
NEW UNITS FFU-2	#12	20A/2P		895		31 32				20A/1P		SPARE			
AND FFU-3 IN CORRIDOR	#12			895		33 34				20A/1P		SPARE			
SPARE		20A/1P				35 36				20A/1P		SPARE			
SPARE		20A/1P				37 38				20A/1P		SPARE			
SPARE		20A/1P				39 40				20A/1P		SPARE			
SPARE		20A/1P				41 42				20A/1P		SPARE			
				895					0			PHASE A 895			
								895				PHASE B 895			
												PHASE C 0			

THIS IS THE NEW PANEL "H3C".

PANEL DESIGNATION: "H3C"															
VOLTAGE: 208 3PHASE 4WIRE											PANEL LOCATION: STORAGE ROOM 319		TOTAL VOLTAMPS THIS PANEL	19320	
MAINS: 225 A _CB X MLO											MOUNTING: _ FLUSH X SURFACE		PANEL SPACES: 30	TOTAL CONNECTED LOAD (AMPS)	54
CIRCUIT DESIGNATION	WIRE	TRIP	CONNECTED LOAD			CKT. NO.	CONNECTED LOAD			TRIP	WIRE	CIRCUIT DESIGNATION			
			A	B	C		A	B	C						
	#8		3220			1 2	3220				#8				
MAKEUP AIR UNIT (MAU-6)	#8	60A/3P			3220	3 4			3220	60A/3P	#8	MAKEUP AIR UNIT (MAU-7)			
	#8				3220	5 6			3220		#8				
SPARE		20A/1P				7 8				20A/1P		SPARE			
SPARE		20A/1P				9 10				20A/1P		SPARE			
SPARE		20A/1P				11 12				20A/1P		SPARE			
SPARE		20A/1P				13 14				20A/1P		SPARE			
SPARE		20A/1P				15 16				20A/1P		SPARE			
SPARE		20A/1P				17 18				20A/1P		SPARE			
SPARE		20A/1P				19 20				20A/1P		SPARE			
SPARE		20A/1P				21 22				20A/1P		SPARE			
SPARE		20A/1P				23 24				20A/1P		SPARE			
SPARE		20A/1P				25 26				20A/1P		SPARE			
SPARE		20A/1P				27 28				20A/1P		SPARE			
SPARE		20A/1P				29 30				20A/1P		SPARE			
				3220					3220			PHASE A 6440			
							3220					PHASE B 6440			
										3220		PHASE C 6440			