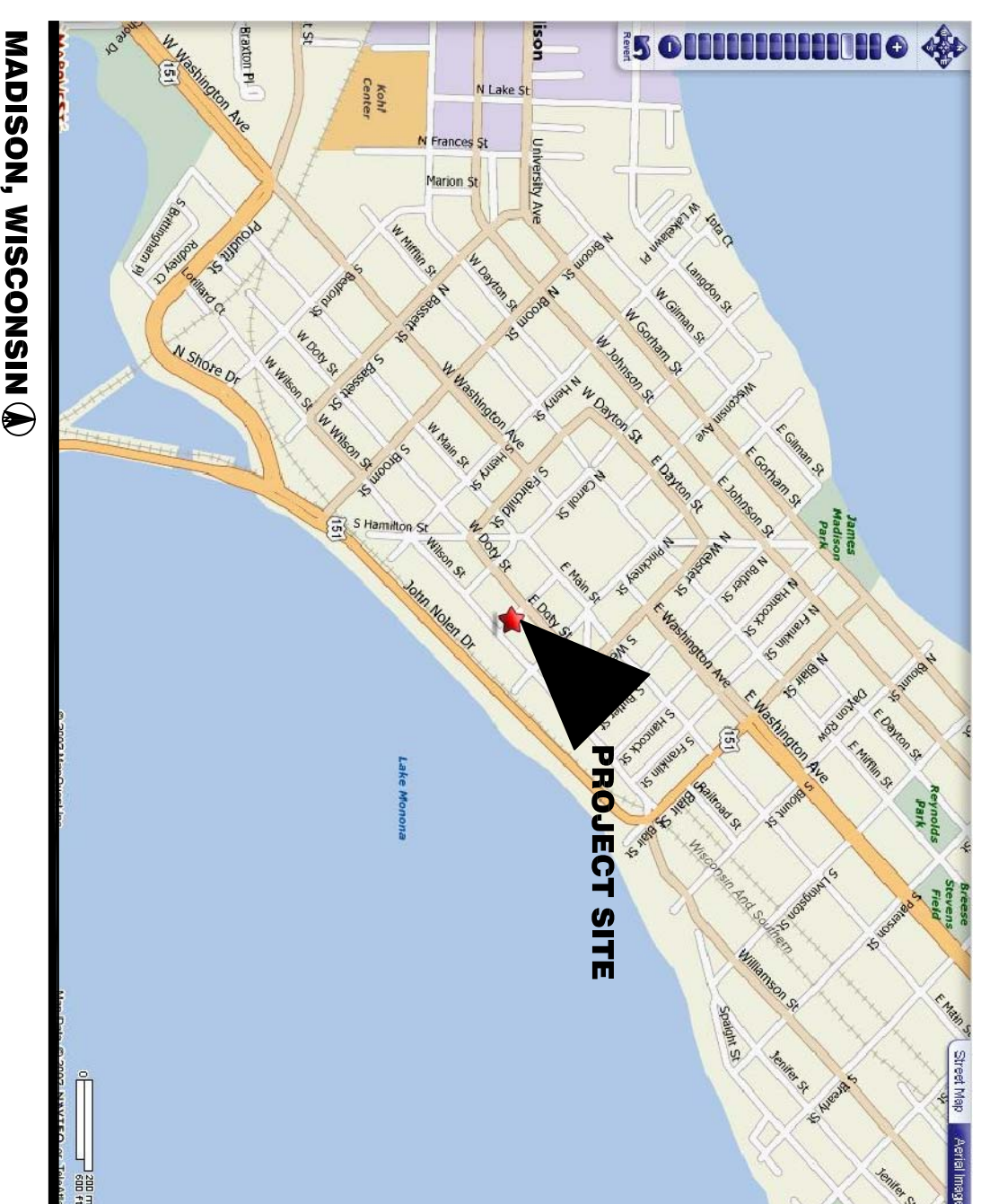
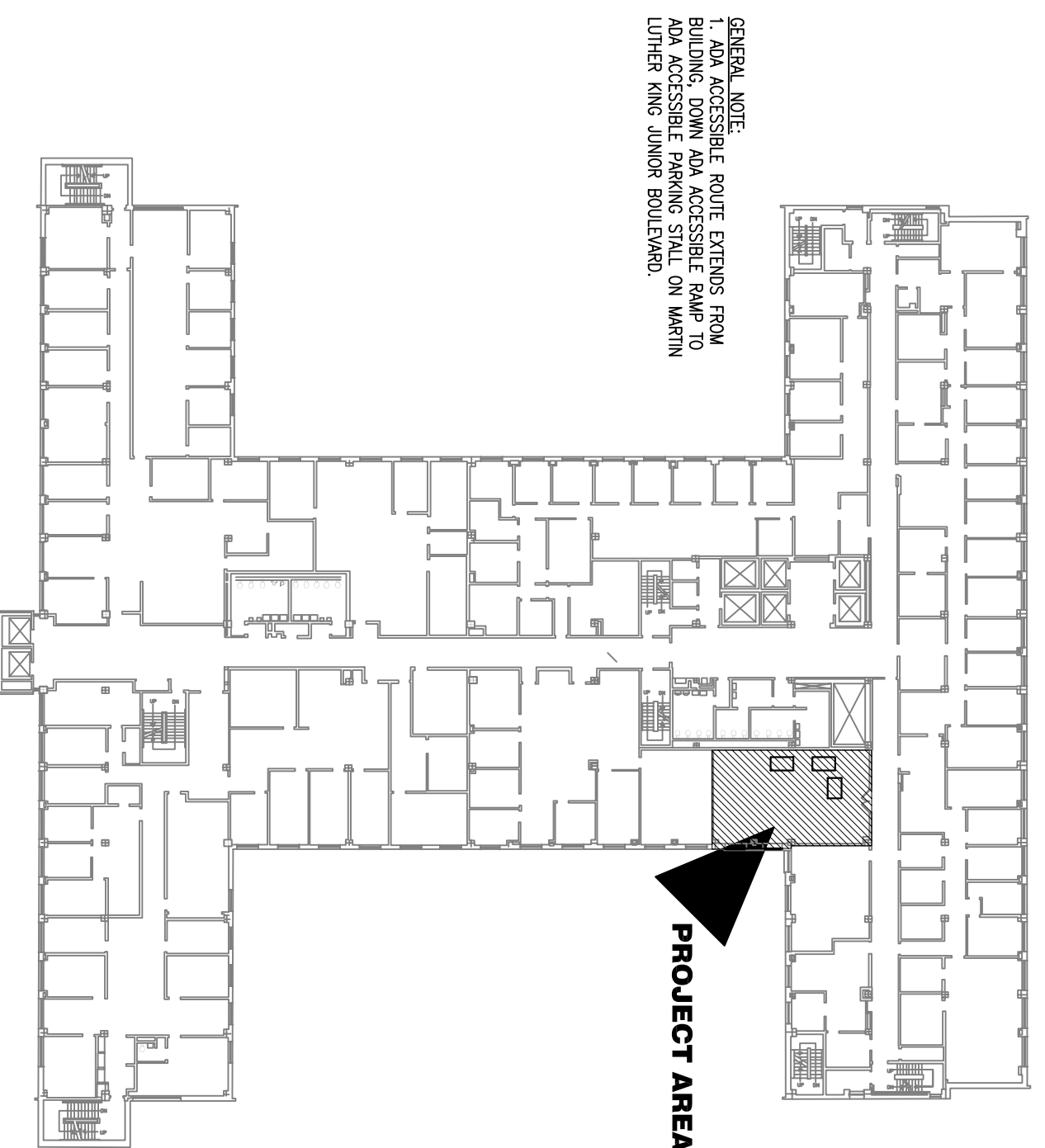


CITY-COUNTY BUILDING 4TH FLOOR AIR HANDLING UNIT REPLACEMENT 210 MARTIN LUTHER KING, JR. BLVD. MADISON, WISCONSIN



MADISON, WISCONSIN



GENERAL NOTE:
1. ADA ACCESSIBLE ROUTE EXTENDS FROM BUILDING CORNER FOR ACCESSIBLE ROUTE TO 210 MARTIN LUTHER KING JUNIOR BOULEVARD.

PROJECT AREA

4TH FLOOR KEY PLAN

DATE: 08.08.08

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
AL	ALUMINUM
AP	ACCESS PANEL
CC	CORNER GUARD
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
CUH	CABINET UNIT HEATER
EJ	EXPANSION JOINT
ENC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FO	FOUNDATION DRAIN SYSTEM FUSHOUT
FRT	FIRE TREATED
FX-#	FIRE EXTINGUISHER AND TYPE
GMB	GYPSUM WALL BOARD
HM	HOLLOW METAL
MB	MARKER BOARD
TB	TACK BOARD
BB	BULLETIN BOARD
M.O.	MASONRY OPENING
N.I.C.	NOT IN CONTRACT
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
PLAM	PLASTIC LAMINATE
REV	REVERSE
R.O.	ROUGH OPENING
S.S.	STAINLESS STEEL
TZO	TERAZZO
U.N.O.	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
WD	WOOD
WP	WORK POINT

MAJOR USE & OCCUPANCY CLASSIFICATION: B
CONSTRUCTION CLASSIFICATION: IB
GROSS FLOOR AREA: 1,102 CSF
SPRINKLERED

INDEX OF DRAWINGS

GENERAL	
G10	COVER SHEET AND INDEX OF DRAWINGS
ARCHITECTURAL	
A10	EXTERIOR ELEVATIONS
A20	FOURTH FLOOR MECHANICAL ROOM PLAN & DEMOLITION PLAN
A30	NOT USED
A40	NOT USED
A50	NOT USED
A60	NOT USED
A70	WALL SECTIONS
MECH	
H10	NOT USED
H1.1	FOURTH FLOOR MECHANICAL ROOM AND HVAC SCHEDULES
H20	HVAC DEMOLITION PLAN, NEW WORK SCHEDULES AND DETAILS
ELECTRICAL	
E10	NOT USED
E1.1	ELECTRICAL FLOOR PLAN, DETAILS AND ABBREVIATIONS
E1.2	ELECTRICAL RISER DIAGRAM AND SCHEDULES

ARCHITECTURAL SYMBOLS AND LEGEND

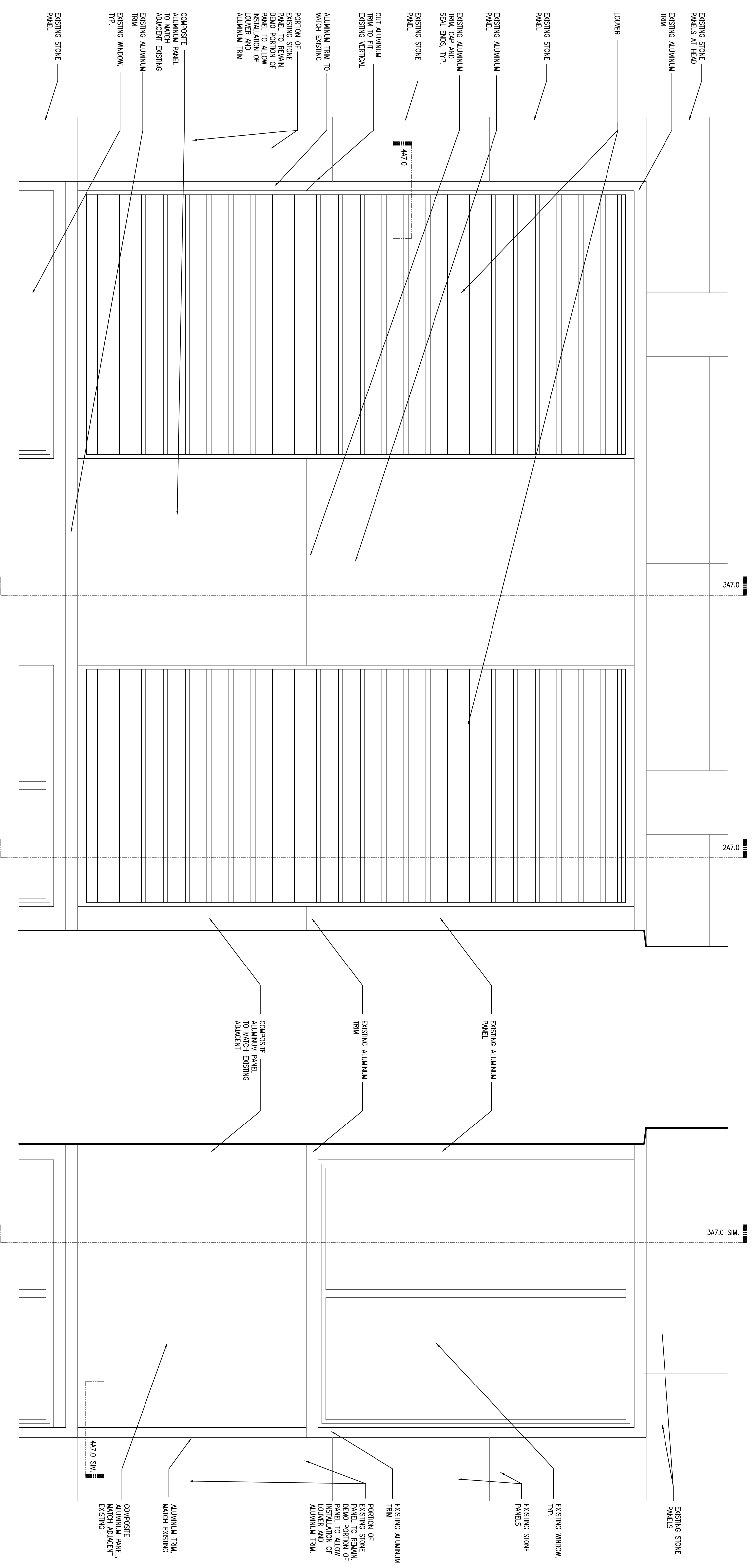
X/XXX	DETAIL REFERENCE SHEET REFERENCE DETAIL NUMBER
X/XXX J	WALL SECTION REFERENCE SHEET REFERENCE DETAIL NUMBER
X/XXX I	WALL SECTION REFERENCE SHEET REFERENCE DETAIL NUMBER
X/XXX J	WALL SECTION REFERENCE SHEET REFERENCE DETAIL NUMBER
X/XXX I	WALL SECTION REFERENCE SHEET REFERENCE DETAIL NUMBER
X/XXX	WALL SECTION REFERENCE SHEET REFERENCE DETAIL NUMBER
X	ELEVATION REFERENCE
X	PARTITION TYPE REF
X	NEW WALLS
X	WINDOW TYPES
X	1 HOUR FIRE RATED WALL
X	2 HOUR FIRE RATED WALL
X	DOOR SWING V./NUMBER
PK-1	REVISIONS
PK-2	RECESSED FIRE EXTINGUISHER
PK-1	SURFACE MOUNT FIRE EXTINGUISHER
PK-1	SPOT ELEVATION (FEET-INCHES)
PK-1	SPOT ELEVATION (FEET/DECIMAL)
PK-1	ROOM NAME & NUMBER

GENERAL NOTES:
 1. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.

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1 EXTERIOR ELEVATION

2 EXTERIOR ELEVATION

PROJECT
 CITY-COUNTY BUILDING
 4TH FLOOR AIR HANDLING
 UNIT REPLACEMENT
 210 MARTIN LUTHER KING,
 JR. BLVD., MADISON, WI

DRAWING
 EXTERIOR ELEVATIONS
 DATE
 08.08.08

A1.0

Architecture
Planning

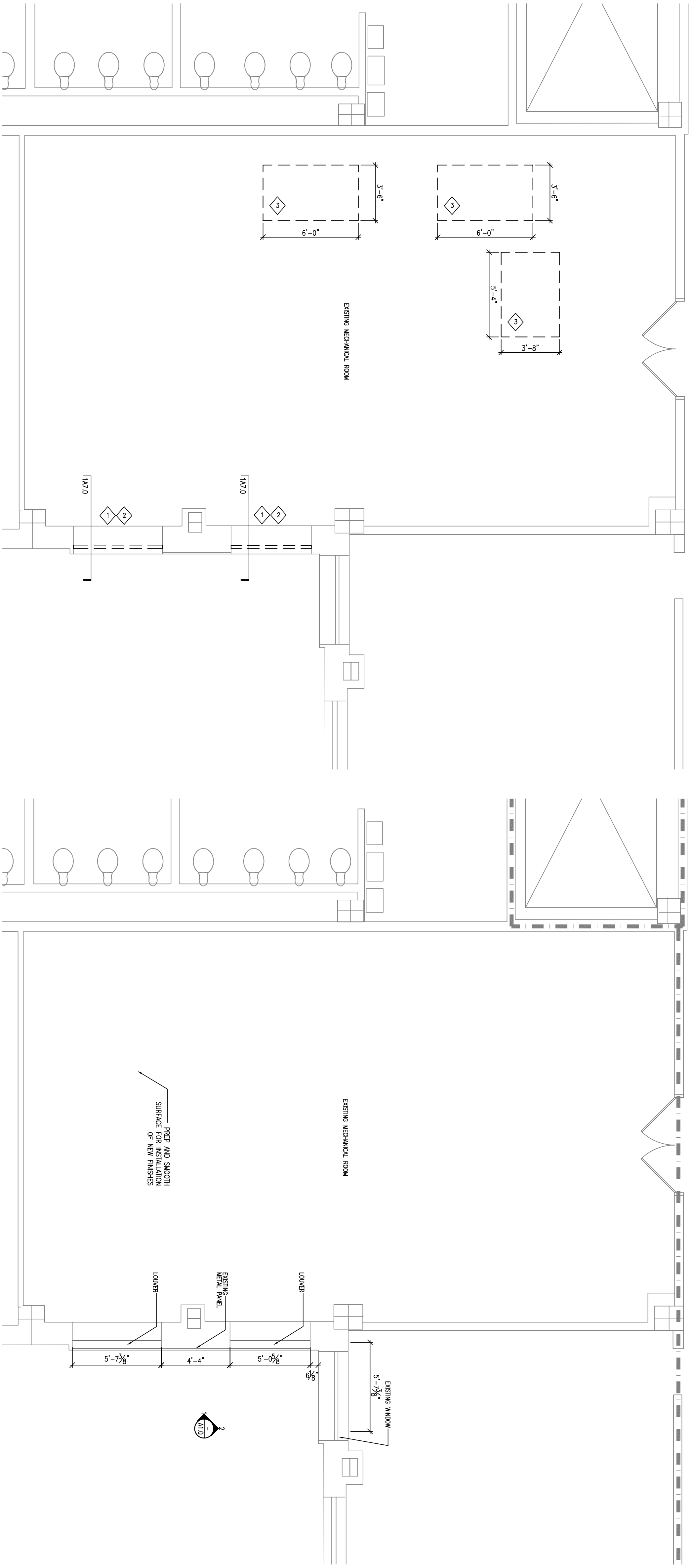
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DEMOLITION NOTES

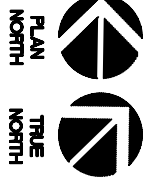
- 1) GRAB EXISTING LOUVER IN ITS ENTIRETY FOR INSTALLATION OF NEW LOUVER.
- 2) DEMO PORTION OF EXISTING EXTERIOR STONE PANEL ON CMU EXISTING WALL DEMOLITION. EQUIPMENT PANS, GRAB FLUSH WITH EXISTING FLOOR AND SEAL TO ENABLE NEW FLOOR COATING INSTALLATION.
- 3) DEMO EXISTING LOUVER IN ITS ENTIRETY FOR INSTALLATION OF NEW LOUVER.

GENERAL NOTES:

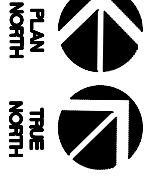
- 1. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 2. VERIFY ALL DIMENSIONS TO MATCH EXISTING, MAINTAIN EXISTING FIRE RATINGS.
- 3. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 4. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 5. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 6. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 7. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 8. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 9. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 10. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 11. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 12. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.
- 13. REFER TO H2.0 AND E1.1 FOR MORE DEMOLITION INFORMATION.



1 FOURTH FLOOR DEMOLITION PLAN
1/4"=1'-0"



1 FOURTH FLOOR PLAN
1/4"=1'-0"



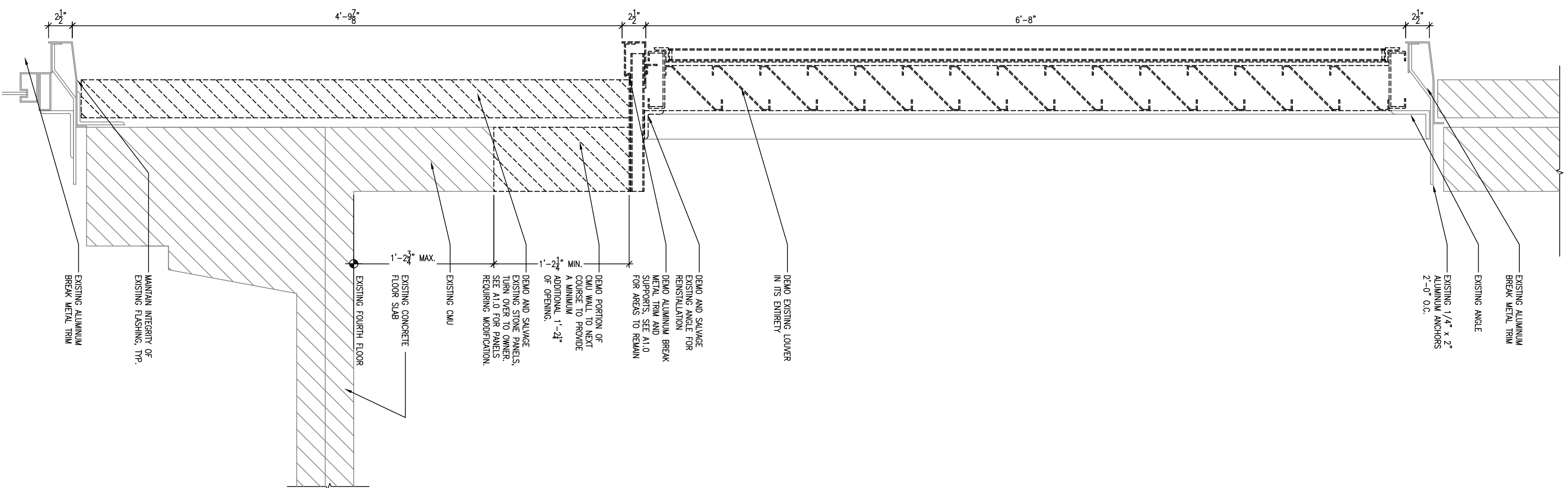
ISSUED

DRAWING
FOURTH FLOOR
MECHANICAL ROOM PLAN
& DEMOLITION PLAN
DATE
08.08.08

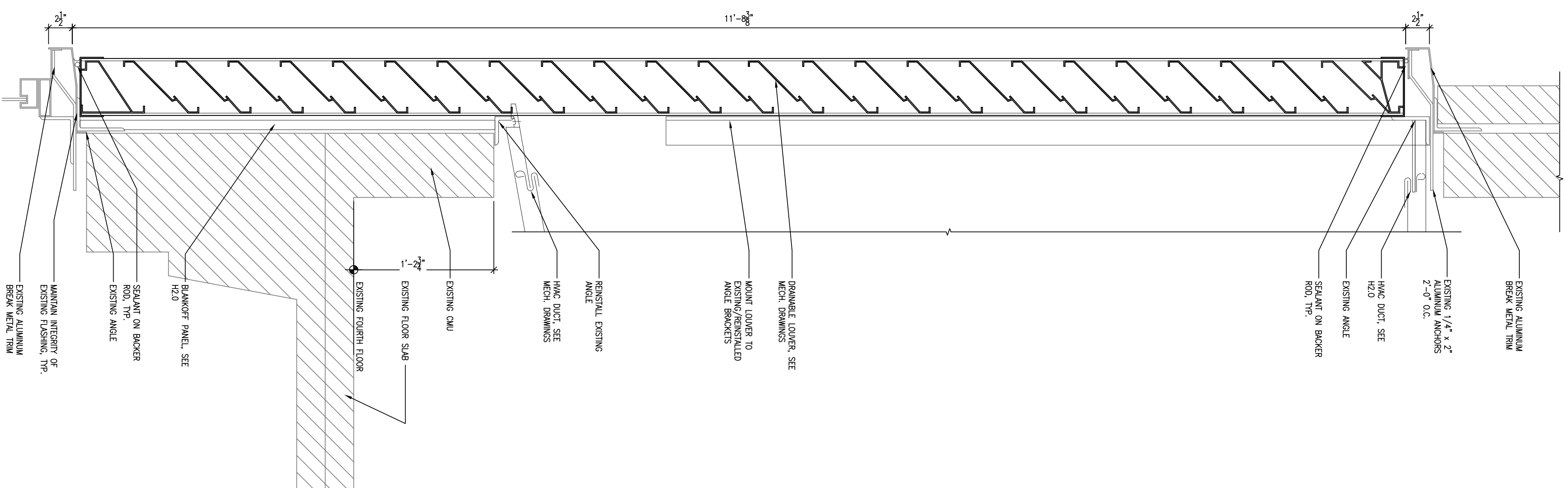
PROJECT
CITY-COUNTY BUILDING
4TH FLOOR AIR HANDLING
UNIT REPLACEMENT
210 MARTIN LUTHER KING,
JR. BLVD., MADISON, WI

A2.0

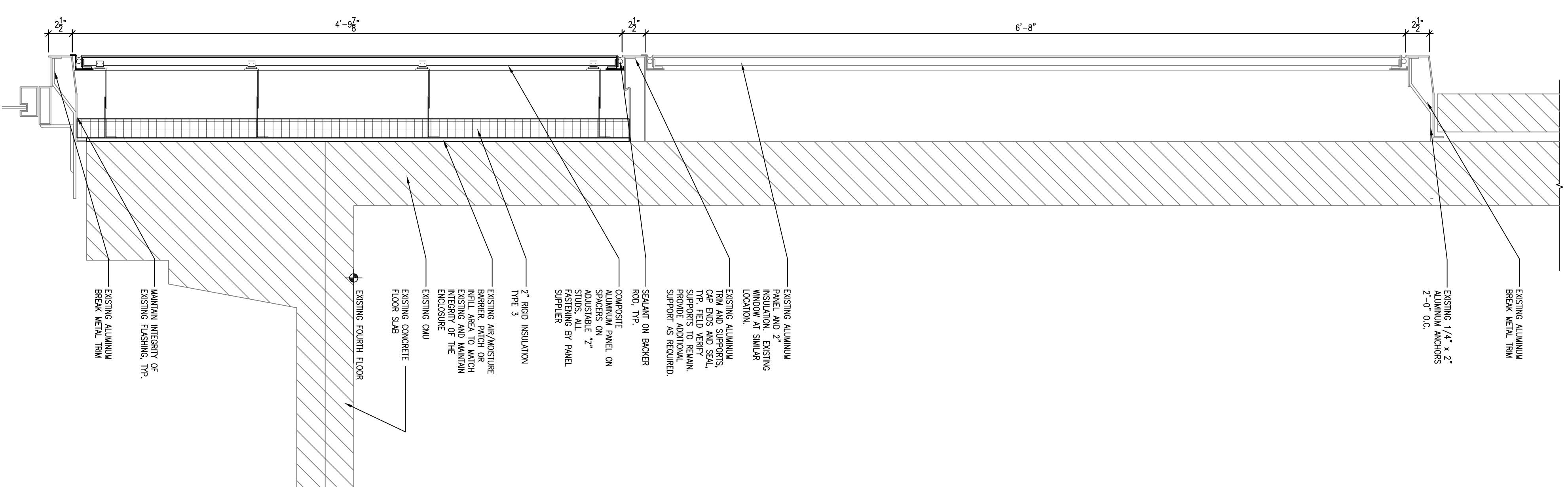
- GENERAL NOTES:
1. FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 2. REUSE OF EXISTING ANGLES FOR ATTACHMENT OF LOUVER ACCEPTABLE WHERE FEASIBLE. MORTAR/PACKAGE AND REINSTALL AS NECESSARY FOR COMPLETE INSTALLATION. ADDITIONAL MATERIALS AS REQUIRED FOR COMPLETE INSTALLATION.
 3. REUSE OF EXISTING FASTENERS AT STONE PANELS ACCEPTABLE WHERE INSTALLATION PROVIDE ADDITIONAL MATERIALS AS REQUIRED FOR COMPLETE INSTALLATION.
 4. REUSE OF ALUMINUM BREAK METAL TRIM SUPPORTS ACCEPTABLE WHERE FEASIBLE. PROVIDE ADDITIONAL MATERIALS AS REQUIRED FOR COMPLETE INSTALLATION.



1 DEMOLITION DETAIL
1/16\"/>



2 LOUVER DETAIL
1/16\"/>



3 ALUMINUM PANEL DETAIL
1/16\"/>



4 JAMB DETAIL
1/16\"/>

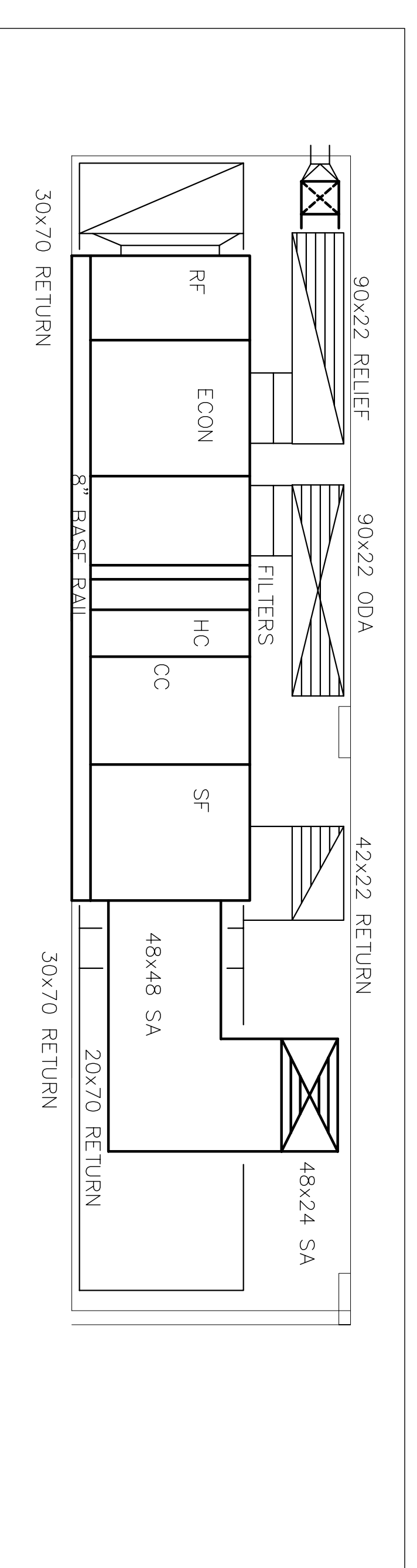
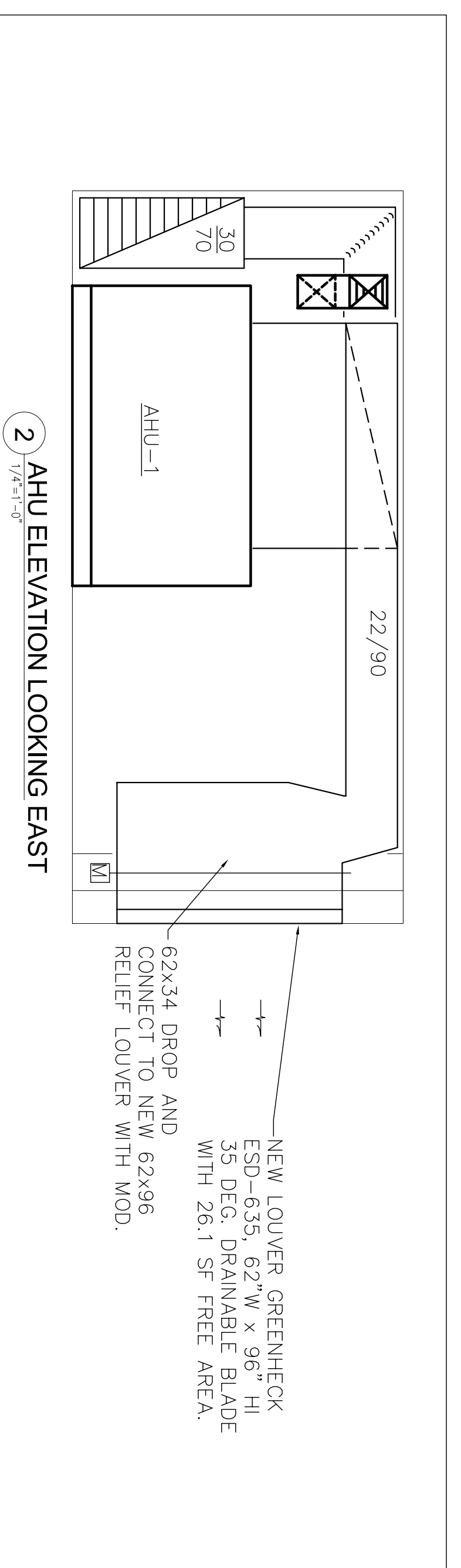
ISSUED

DRAWING
WALL SECTIONS

DATE
08.08.08

A7.0

PROJECT
CITY-COUNTY BUILDING
4TH FLOOR AIR HANDLING
UNIT REPLACEMENT
210 MARTIN LUTHER KING,
JR. BLVD., MADISON, WI



HEATING COIL SCHEDULE

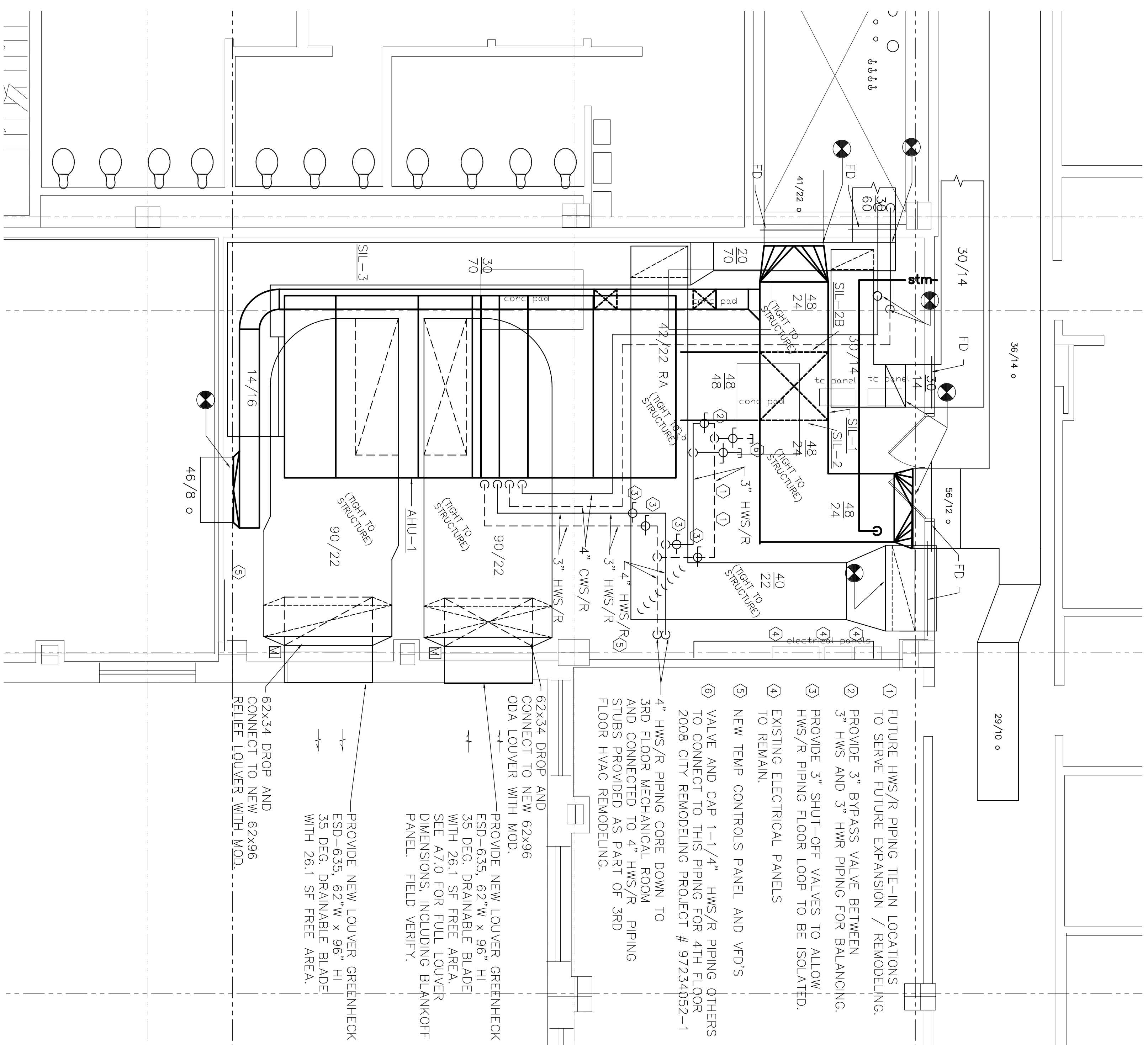
COIL NO.	UNIT	CFM	FACE AREA SQ. FT.	FACE VELOCITY FPM	FACE AREA SQ. FT.	FACE VELOCITY FPM	TYPE COIL	ROWS	FPI	AIR ENTER °F	AIR DISCH. °F	CAPACITY MBH	E.W.T.	WATER DROP °F	GPM	WATER CAP. MBH	WATER RISE °F	WATER CAP. MBH	WATER FRICT. FT.	AIR FRICT. IN.	WATER FRICT. IN.	CONN. SIZE IN.	
1	AHU-1	24,000	505	505	505	505	CW	6	10	80	67	55	54	45	10	205	978.8	9.86	0.96"	3"	3"	3"	
2																							
3																							
4																							
5																							

COOLING COIL SCHEDULE

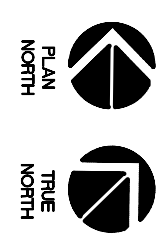
COIL NO.	UNIT	CFM	FACE AREA SQ. FT.	FACE VELOCITY FPM	FACE AREA SQ. FT.	FACE VELOCITY FPM	TYPE COIL	ROWS	FPI	AIR ENTER °F	AIR DISCH. °F	CAPACITY MBH	E.W.T.	WATER DROP °F	GPM	WATER CAP. MBH	WATER RISE °F	WATER CAP. MBH	WATER FRICT. FT.	AIR FRICT. IN.	WATER FRICT. IN.	CONN. SIZE IN.	
1	AHU-1	24,000	505	505	505	505	CW	6	10	80	67	55	54	45	10	205	978.8	9.86	0.96"	3"	3"	3"	
2																							
3																							
4																							
5																							

AIR HANDLING UNIT SCHEDULE

MARK NO.	AREA SERVED	LOCATION	TYPE	UNIT ARRANGEMENT	MANUFACTURER	MODEL	AIR HANDLING DATA										RETURN EXHAUST FAN DATA					VIBRATION ISOLATION TYPE	DEFLECTION	REMARKS						
							SUPPLY CFM	MIN. O.A.	OUTLET VELOCITY	TOTAL SP	MOTOR H.P.	FAN RPM	MAX. B.H.P.	FAN WHEEL TYPE	FAN WHEEL SIZE	MODEL	RETURN CFM	TOTAL SP	MOTOR H.P.	FAN RPM	MAX. B.H.P.				FAN WHEEL TYPE	FAN WHEEL SIZE	DUCT PRESS CONSTRUCTION			
AHU-1	4TH AND 5TH FLOORS	4TH FLOOR	HW/CW	HORIZONTAL	CARRIER-ALLIANCE		24,000	6,000	4.5"	40	1501	27.31	EPF	330		22,000	1.5"	20	1259	14.02	EPF	330	4"	INTERNAL	HWC-1	CC-1	460V. VFD'S			
1																														
2																														
3																														
4																														
5																														



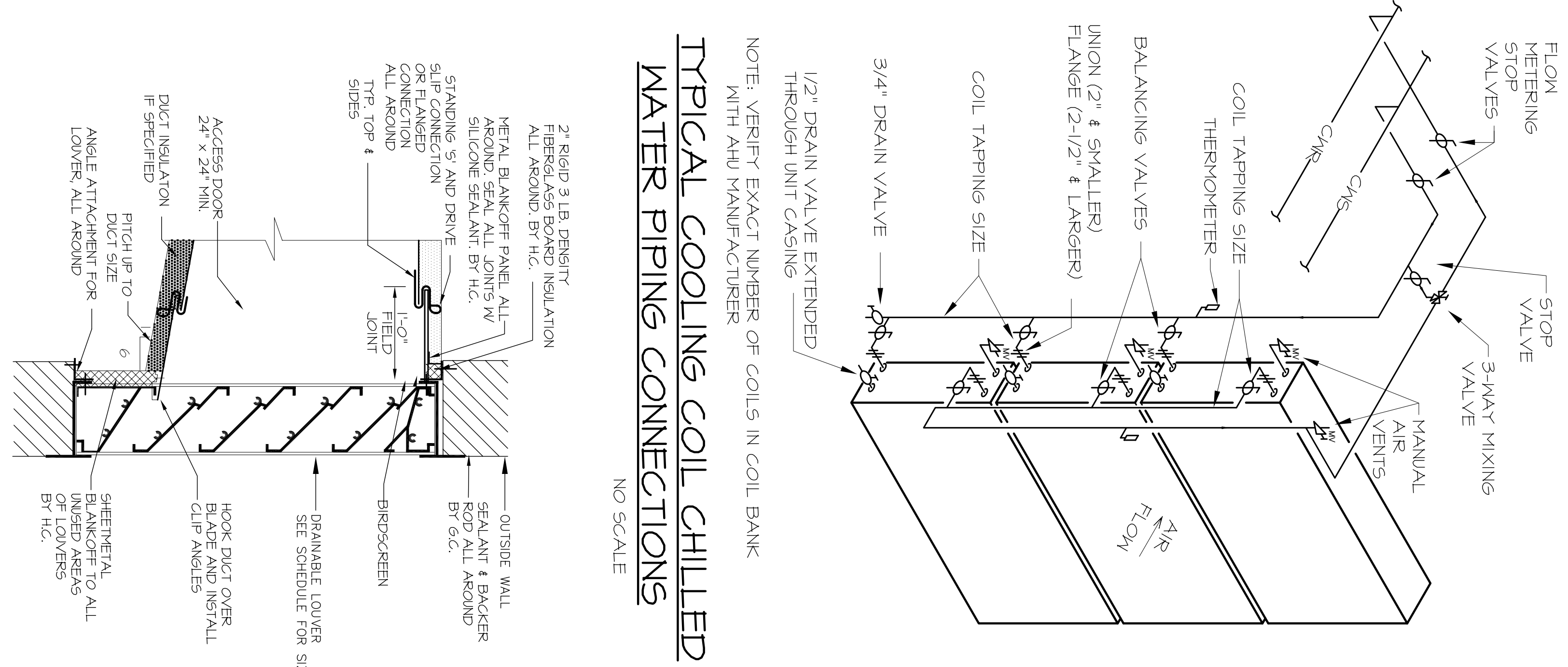
FOURTH FLOOR MECHANICAL ROOM



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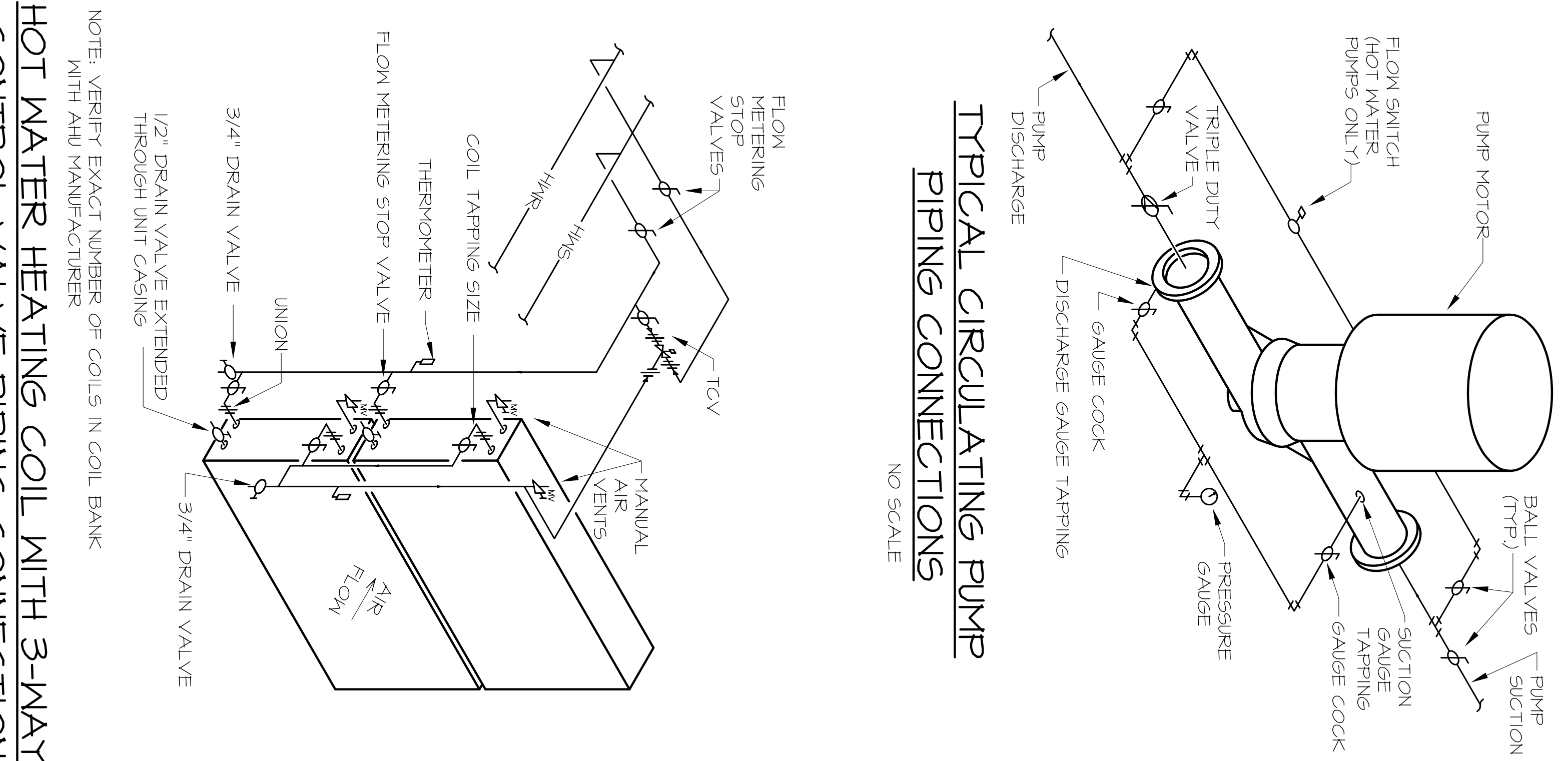
ISSUED



NOTE: VERIFY EXACT NUMBER OF COILS IN COIL BANK WITH AHU MANUFACTURER

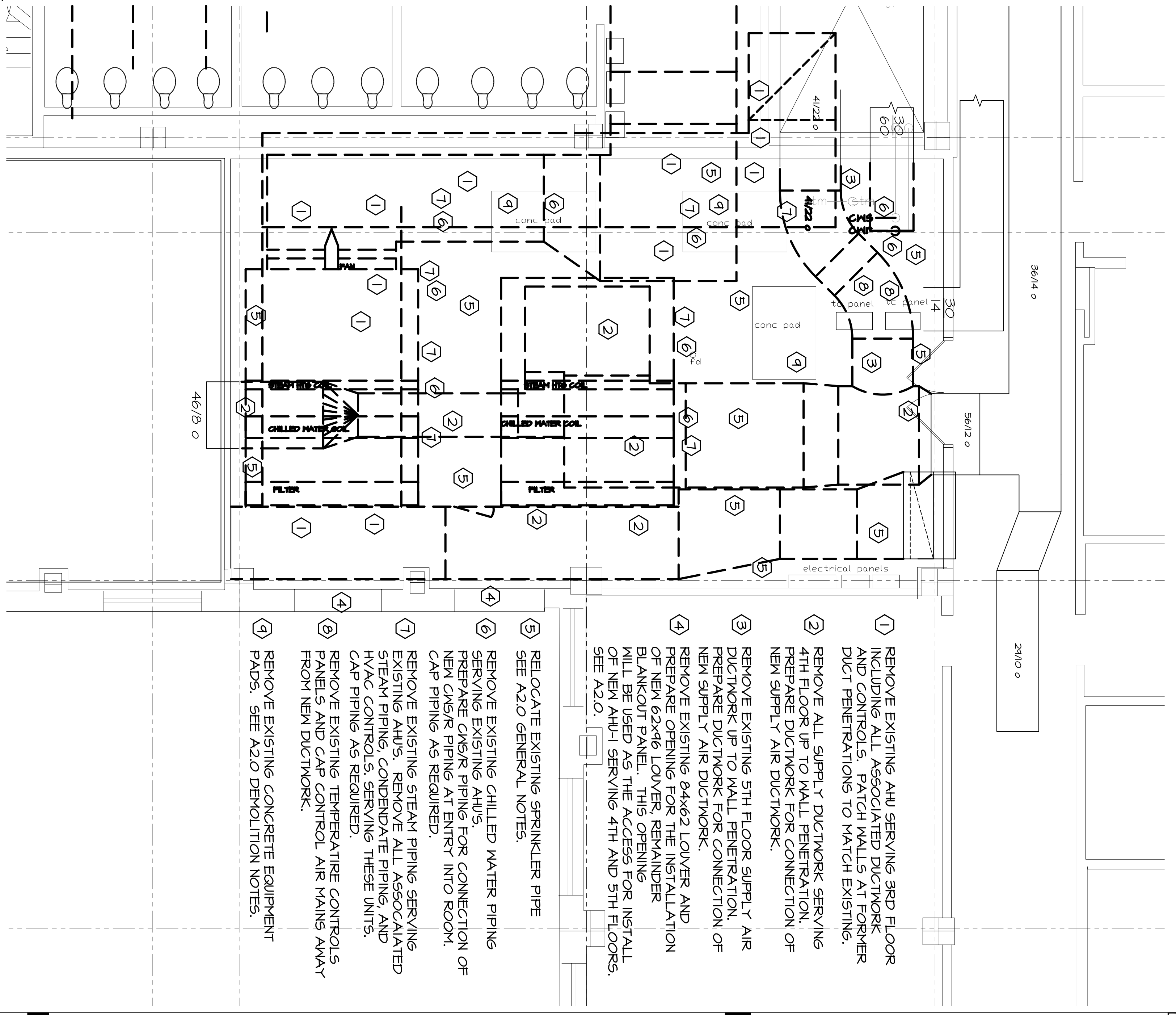
**TYPICAL PIPING CONNECTIONS
WATER PIPING COILS CHILLED**

NO SCALE



**TYPICAL CIRCULATING PUMP
PIPING CONNECTIONS**

NO SCALE



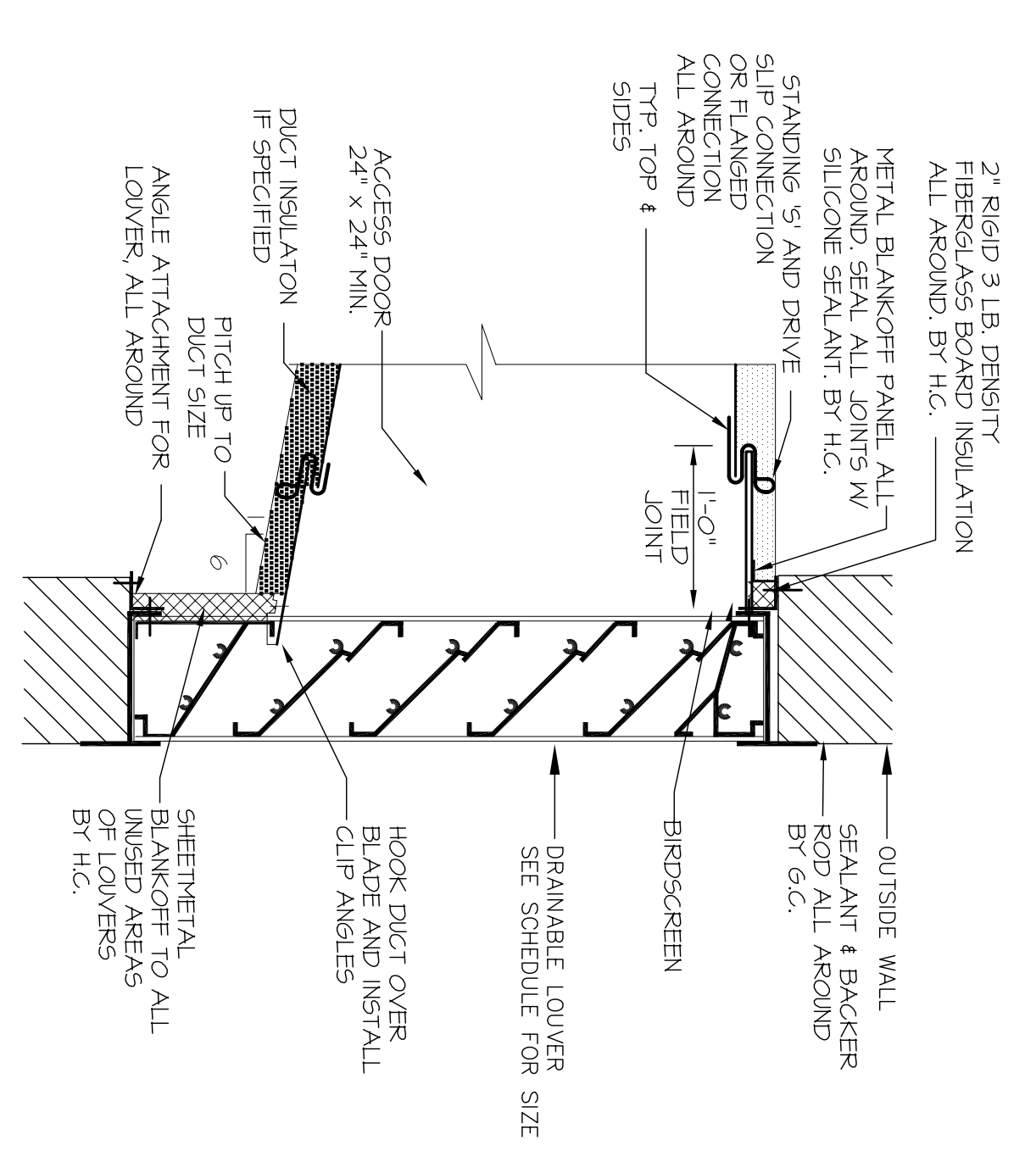
- 1 REMOVE EXISTING AHU SERVING 3RD FLOOR INCLUDING ALL ASSOCIATED DUCTWORK AND CONTROLS. PATCH WALLS AT FORMER DUCT PENETRATIONS TO MATCH EXISTING.
- 2 REMOVE ALL SUPPLY DUCTWORK SERVING 4TH FLOOR UP TO WALL FOR PENETRATION. PREPARE DUCTWORK FOR CONNECTION OF NEW SUPPLY AIR DUCTWORK.
- 3 REMOVE EXISTING 5TH FLOOR SUPPLY AIR DUCTWORK UP TO WALL PENETRATION. PREPARE DUCTWORK FOR CONNECTION OF NEW SUPPLY AIR DUCTWORK.
- 4 REMOVE EXISTING 84x62 LOUVER AND PREPARE OPENING FOR THE INSTALLATION OF NEW 62x46 LOUVER. REMAINDER BLANKOUT PANEL. THIS OPENING WILL BE USED AS THE ACCESS FOR INSTALL OF NEW AHU1 SERVING 4TH AND 5TH FLOORS. SEE A2.0.
- 5 RELOCATE EXISTING SPRINKLER PIPE SEE A2.0 GENERAL NOTES.
- 6 REMOVE EXISTING CHILLED WATER PIPING SERVING EXISTING AHU5. PREPARE CWS/R PIPING FOR CONNECTION OF NEW CWS/R PIPING AT ENTRY INTO ROOM. CAP PIPING AS REQUIRED.
- 7 REMOVE EXISTING STEAM PIPING SERVING EXISTING AHU5. REMOVE ALL ASSOCIATED STEAM PIPING, CONDENSATE PIPING, AND HVAC CONTROLS, SERVING THESE UNITS. CAP PIPING AS REQUIRED.
- 8 REMOVE EXISTING TEMPERATURE CONTROLS PANELS AND CAP CONTROL AIR MAINS AWAY FROM NEW DUCTWORK.
- 9 REMOVE EXISTING CONCRETE EQUIPMENT PADS. SEE A2.0 DEMOLITION NOTES.

1 MECHANICAL ROOM DEMO PLAN
1/4\"/>

NOTE: VERIFY EXACT NUMBER OF COILS IN COIL BANK WITH AHU MANUFACTURER

**HOT WATER HEATING COIL WITH 3-WAY
CONTROL VALVE PIPING CONNECTIONS**

NO SCALE



LOWER INSTALLATION DETAIL

NOT TO SCALE

DUCT SILENCER SCHEDULE

SIL. NO.	SIZE M x H x L (IN)	VELOCITY F.P.M.	P.D. IN MAX.	SOUND ATTENUATION MINIMUM										SOUND REGENERATION MAXIMUM									
				63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000				
1	48x48x84/54 ELBOM	1500	0.18	10	14	21	32	40	38	21	38	64	55	48	45	41	45	42					
2	48x24x36\"/>																						

DRAWING
HVAC DEMOLITION PLAN,
NEW WORK SCHEDULES AND
DETAILS
DATE
08.08.08

H2.0

PROJECT
CITY-COUNTY BUILDING
4TH FLOOR AIR HANDLING
UNIT REPLACEMENT
210 MARTIN LUTHER KING,
JR. BLVD., MADISON, WI

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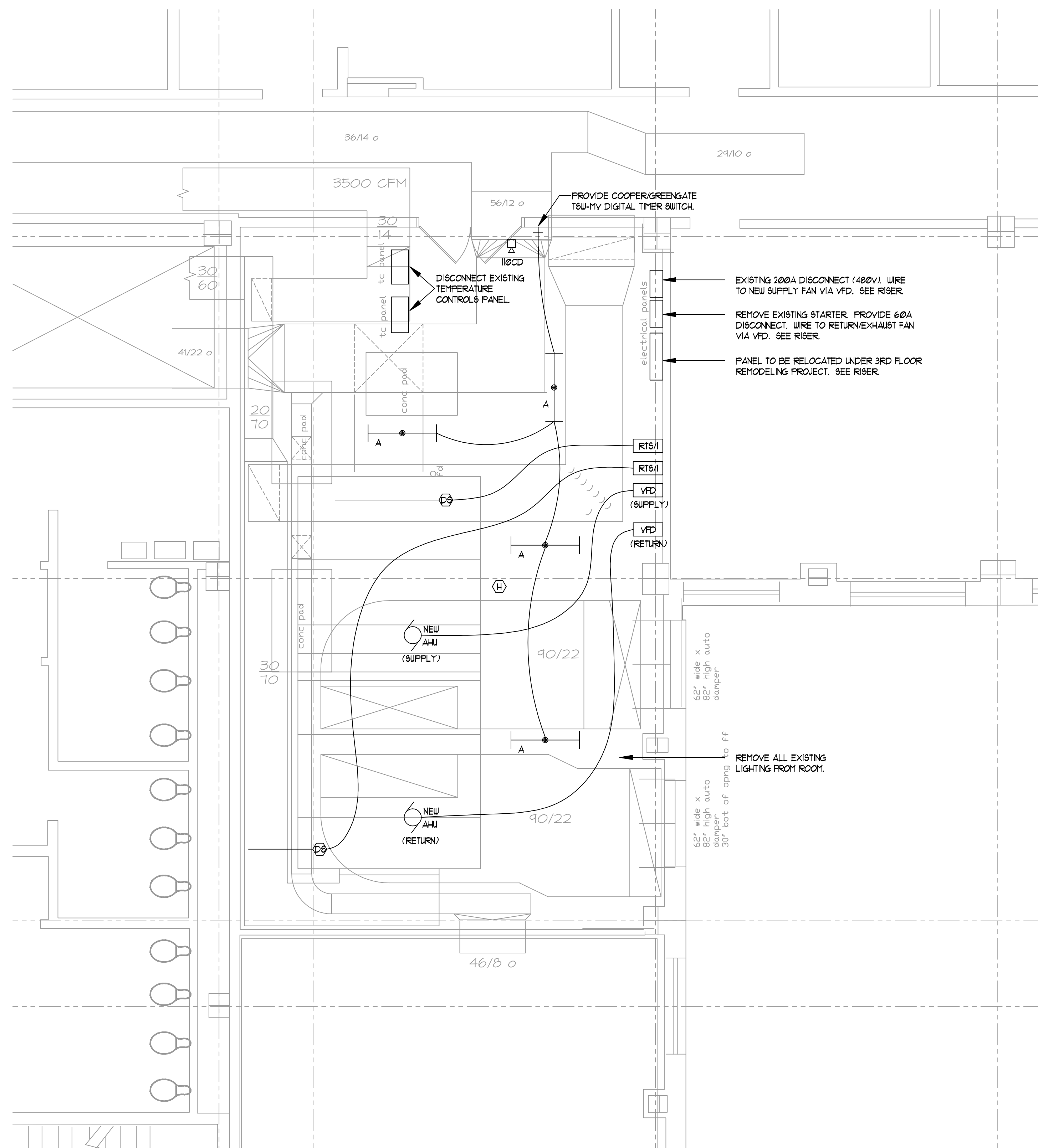
ISSUED

ELECTRICAL SYMBOLS

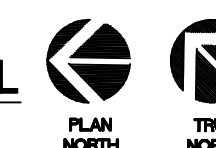
- INDUSTRIAL FLUORESCENT - PROVIDE LLITHONIA L232 MVOLT. CHAN MOUNT EVEN WITH ADJACENT DUCTS AND PIPES. COORDINATE LOCATIONS WITH HVAC. LAMP WITH (2) F28T8/SP39/AMX/ECO.
- SINGLE POLE TOGGLE SWITCH (3) THREE WAY (4) FOUR WAY (K) KEY (P) PILOT LIGHT (OS) OCCUPANCY SENSOR MOUNT 48" ABOVE FLOOR TO TOP OF BOX.
- MOTOR
- VARIABLE FREQUENCY DRIVE FURNISHED BY DIV 15, INSTALLED AND WIRED BY DIV 16.
- REMOTE TEST SWITCH AND INDICATOR STATION
- HORN/STROBE 80" AFF TO BOTTOM OF BOX OR 6' DOWN FROM CEILING TO TOP OF BOX WHICHEVER IS LOWER
- INTELLIGENT 135°F FIXED 4 RATE OF RISE (20°F/M) UNLESS NOTED ON THE PLANS
- INTELLIGENT PHOTOELECTRIC DUCT SMOKE DETECTOR

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BFG BELOW FINAL GRADE
- BOL BUILT-IN OVERLOAD
- C CONDUIT
- CKT CIRCUIT
- CB COMBINATION STARTER
- D DEDICATED
- DD DOUBLE DUPLEX
- EC ELECTRICAL CONTRACTOR
- EWC ELECTRIC WATER COOLER
- ER EXISTING TO BE REMOVED
- ERL EXISTING RELOCATED (NEW LOCATION)
- ETL EXISTING TO BE RELOCATED (OLD LOCATION)
- EX EXISTING TO REMAIN
- FACP FIRE ALARM CONTROL PANEL
- GC GENERAL CONTRACTOR
- GFI GROUND FAULT INTERRUPTER
- HV HEATING AND VENTILATION CONTRACTOR
- IG ISOLATED GROUND IN ROOM
- IR IN UNIT
- IJ IN UNIT
- MAN MANUAL STARTER
- MAG MAGNETIC STARTER
- MCA MINIMUM CIRCUIT AMPACITY
- NIC NOT IN CONTRACT
- NL NIGHT LIGHT
- NU NEAR UNIT
- PB PUSHBUTTON
- PC PLUMBING CONTRACTOR
- PIU PRE-WIRED
- RV REDUCED VOLTAGE STARTER
- RAI REMAIN AS IS
- SC SEPARATE CIRCUIT
- SS SPEED SWITCH
- SW SWITCH
- TC TIMECLOCK
- TS THERMOSTAT
- UM UNIT MANUFACTURER
- UP WEATHERPROOF



1 FOURTH FLOOR MECHANICAL ROOM - ELECTRICAL
1/4"=1'-0"



PROJECT
CITY-COUNTY BUILDING
4TH FLOOR AIR HANDLING
UNIT REPLACEMENT
210 MARTIN LUTHER KING,
JR. BLVD., MADISON, WI

DRAWING
ELECTRICAL FLOOR
PLAN, DETAILS AND
ABBREVIATIONS

DATE
08.08.08

C08059
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WEB PAGE: www.czeng.com

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ISSUED

MOTOR WIRING SCHEDULE

TAG	DRIVING	LOC.	POWER			FEED FROM		BREAKER		BRANCH WIRING				STARTER				DISCONNECT				SEE NOTE
			HP	VOLT	PH	PANEL	CIRCUIT	SIZE	POLE	NO.	SIZE	COND.	FURN.	INST.	WIRED	LOC.	TYPE	FURN.	INST.	WIRED	LOC.	
AHU-1	SUPPLY FAN	4TH FLR	40	480	3	SEE RISER	30	3	3	3	1 1/4"	HV	EC	EC	NJ	VFD	EC	EC	EC	NJ	FD	1
AHU-1	RETURN FAN	4TH FLR	20	480	3	HP3	1311	30	3	3	3/4"	HV	EC	EC	NJ	VFD	EC	EC	EC	NJ	FD	1

ABBREVIATIONS:

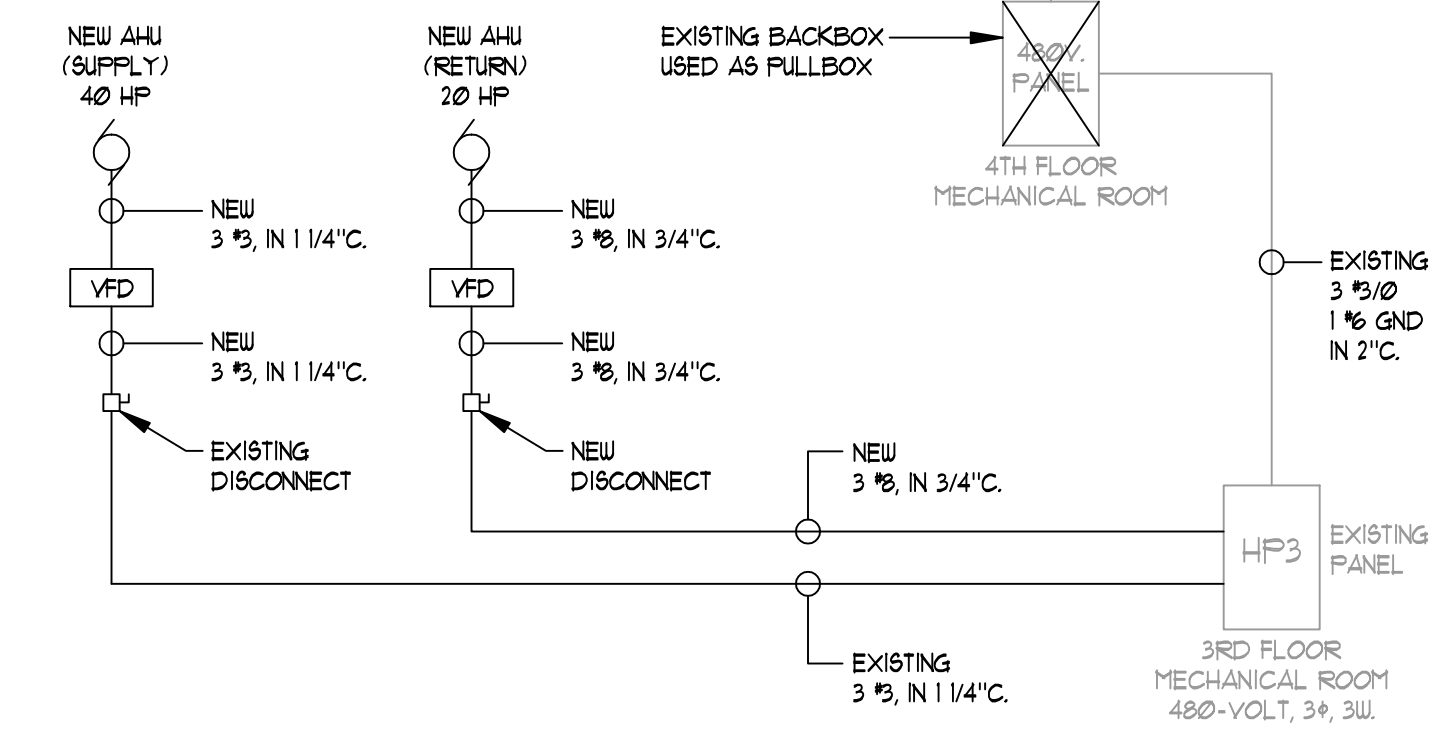
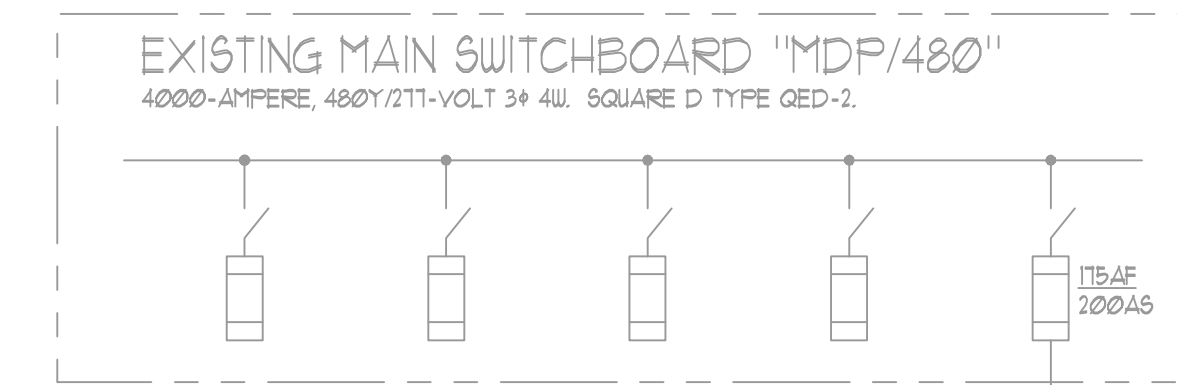
2SP = 2 SPEED MAGNETIC STARTER	HV = HVAC CONTRACTOR	HOA = HAND-OFF-AUTO	FL = PILOT LIGHT
BOL = BUILT-IN OVERLOAD	IU = IN UNIT	MCA = MINIMUM CIRCUIT AMPS	RV5 = REDUCED VOLTAGE STARTER
CS = COMBINATION STARTER	LMRS = LOCKABLE MOTOR RATED SWITCH	MFR = MANUFACTURER	TCP = TEMPERATURE CONTROL PANEL
EC = ELECTRICAL CONTRACTOR	MAN = MANUAL STARTER	NFD = NON-FUSIBLE DISCONNECT	T-STAT = THERMOSTAT
ECP = ELEVATOR CONTROL PANEL	MAG = MAGNETIC STARTER	NJ = NEAR UNIT	VFD = VARIABLE FREQUENCY DRIVE
EV = ELEVATOR CONTRACTOR	MC = MECHANICAL CONTRACTOR	OJ = ON UNIT	WF = WEATHERPROOF
FD = FUSIBLE DISCONNECT	MCC = MOTOR CONTROL CENTER	PC = PLUMBING CONTRACTOR	51ST = START/STOP

NOTES:
1. PROVIDE SIMPLEX.

PANEL HP3

MOUNTING TYPE: SURFACE		SHORT CIRCUIT INTERRUPTING RATING: 14 KAIC										LOCATION: 3RD FLOOR MECHANICAL ROOM	
CIRCUIT BKR	LOAD DESCRIPTION	LOAD TYPE	WATTS	PHASE LOADS	CIRCUIT	WATTS	LOAD TYPE	LOAD DESCRIPTION	CIRCUIT BKR	AMPS	POLES		
AMPS	POLES			A B C					AMPS	POLES			
80	3	AHU-1 (AIR HANDLING UNIT)	10623	1	16201	2	5578	V	RE-1 (RETURN FAN)	40	3		
X	X	X	10623	3	16201	4	5578	V	X	X	X		
X	X	X	10623	5	16201	6	5578	V	X	X	X		
30	3	NEW AHU - RETURN	15000	1	15000	8							
X	X	X	15000	3	15000	10							
X	X	X	15000	11	15000	12							
30	3	NEW AHU - SUPPLY	13810	13	13810	14							
X	X	X	13810	15	13810	16							
X	X	X	13810	17	13810	18							
		PREPARED SPACE		19	0	20							
		PREPARED SPACE		21	0	22							
		PREPARED SPACE		23	0	24							
		PREPARED SPACE		25	0	26							
		PREPARED SPACE		27	0	28							
		PREPARED SPACE		29	0	30							
				31	0	32							
				33	0	34							
				35	0	36							
				37	0	38							
				39	0	40							
										PANEL TOTAL LOAD = 112.5 KW			
												135.4 AMP	

NOTES:
1) THIS PANEL IS SQUARE D TYPE NF.
2) PROVIDE A NEW BREAKER IN SPACES 1, 3, 11. THE REMAINING BREAKERS ARE EXISTING.



PARTIAL ONE LINE RISER DIAGRAM
NO SCALE

PROJECT
CITY-COUNTY BUILDING
4TH FLOOR AIR HANDLING
UNIT REPLACEMENT
210 MARTIN LUTHER KING,
JR. BLVD., MADISON, WI

DRAWING
ELECTRICAL RISER
DIAGRAM AND
SCHEDULES

DATE
08.08.08

C08059
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