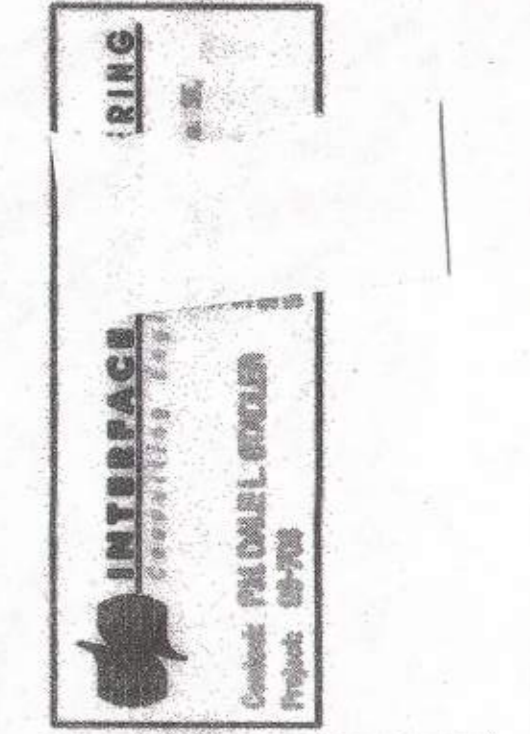


ABBREVIATIONS		PLUMBING AND HVAC PIPING		HVAC DUCT SYMBOLS		DRAWING SCHEDULE	
AC	PACKAGED ROOFTOP AC UNIT	ID	INSIDE DIAMETER	ELBOW		M0.1	LEGEND - MECHANICAL
AD	ACCESS DOOR	LBS	POUNDS	TEE		M2.1	PARTIAL FLOOR PLANS - HVAC - DEMOLITION
AF	ABOVE FINISHED FLOOR	LH	LATENT HEAT	CAP		M3.1	DETAILS - HVAC
AFU	AIR HANDLING	IN	INCHES	FLOW INDICATOR		M4.1	SCHEDULES - HVAC
ARI	AMERICAN REFRIGERATION INSTITUTE	KW	KILOWATT	GLOBE VALVE		P2.1	FLOOR PLAN - PLUMBING
B	BOILER	LWT	LEAVING WATER TEMPERATURE	CHECK VALVE		P2.2	DETAILS AND SCHEDULES - PLUMBING
BDD	BACKDRAFT DAMPER	MAU	MAKE-UP AIR UNIT	PRESSURE REDUCING VALVE			
BFP	BACKFLOW PREVENTOR	MAX	MAXIMUM	QUARTER TURN VALVE (BALL OR BUTTERFLY)			
BFF	BELOW FINISHED FLOOR	MBH	THOUSAND BTU PER HOUR	THERMOMETER			
BHP	BRAKE HORSE POWER	MD	MOTORIZED DAMPER	PRESSURE GAUGE W/COCK			
CC	COOLING COIL	MH	MOUNTING HEIGHT	AUTOMATIC AIR VENT			
CD	CEILING DIFFUSER	MN	MINIMUM	MANUAL AIR VENT			
CF	CONDENSATE DRAIN	MS	MAKE-UP WATER	CONCENTRIC REDUCER			
CFM	CUBIC FEET PER MINUTE	N/A	NOT APPLICABLE	ECCENTRIC REDUCER			
CH	CHILLED	NC	NOISE CRITERIA	PIPE GUIDE			
CHIR	CHILLED WATER RETURN	NIC	NOT IN CONTRACT	TEST PORT (PETE'S PLUG, OR EQUAL)			
CHRS	CHILLED WATER SUPPLY	NLL	NIGHT LOW LIMIT	FLEXIBLE CONNECTOR			
CI	CENTRIFUGAL	NO	NUMBER	T & P RELIEF VALVE (W/ PIPE TO DRAIN)			
CO	CARBON MONOXIDE	NOA	NORMALLY OPEN	SHOCK ABSORBER			
CO2	CARBON DIOXIDE	NTS	NOT TO SCALE	BACKFLOW PREVENTOR			
COEFF.	COEFFICIENT OF PERFORMANCE	OSD	OPPOSED BLADE DAMPER	WATER METER			
CONT.	CONTINUATION	OC	ON CENTER	HOSE BIBB			
CPR	AIR COMPRESSOR	OD	OUTSIDE DIAMETER	STRAINER			
CR	CONDENSATE RETURN	OSA	OUTSIDE AIR	UNION			
CRU	SPLIT SYSTEM COMPUTER ROOM UNIT	P	PUMP	PUMP			
CT	CONDENSING UNIT	PA	PAINT SPRAY BOOTH	PIPE ANCHOR			
CU	CUBIC FEET	PCRU	PACKAGED COMPUTER ROOM UNIT	PRESSURE RELIEF VALVE			
CUH	CABINET UNIT HEATER	PD	PRESSURE DROP	FLOOR CLEAN OUT			
CV	CHECK VALVE	PH	PHASE	CLEAN OUT - EXPOSED			
CVF	VALVE FLOW COEFFICIENT	PI	PROJECT MANAGER	WALL CLEAN OUT			
CW	COLD WATER	PRV	PRESSURE REDUCING VALVE	CLEAN OUT TOP TO GRADE			
CWR	CONDENSOR WATER RETURN	PS	POUNDS PER SQUARE INCH	FLOOR DRAIN			
CWS	CONDENSOR WATER SUPPLY	PTAC	PACKAGED TERMINAL AC UNIT	ROOF DRAIN			
D	DUCT DROP	PTHF	PACKAGED TERMINAL HEAT PUMP	FLOOR SINK			
DB	DECEASED	QTY	QUANTITY	CATCH BASIN			
DC	DUCT COLLECTOR	R	DUCT RISE	BALANCING VALVE (CIRCUIT SETTER, OR EQUAL)			
DD	DUCT DRAINAGE	RA	RETURN AIR	MOTORIZED VALVE, 2 WAY			
DE	DUCT HEATER	RET	RETURN	EXPANSION TANK			
DF	DUCT FITTING	RF	RETURN FAN	FLOW METER			
DH	DUCT HEATER	RH	RELATIVE HUMIDITY	FLOW SWITCH			
DHU	DEHUMIDIFIER	RL	REFRIGERANT LIQUID	EXPANSION JOINT			
DIA	DIAMETER	RLD	RELIEF DAMPER	AIR SEPARATOR			
DN	DOWN	RPM	REVOLUTIONS PER MINUTE	TEMPERATURE SENSOR			
DP	DEW POINT	RS	REFRIGERANT SUCTION	TEE WITH RISER			
DSH	DOWN SPOUT NOZZLE	S	SANITARY	TEE WITH DROP			
DX	DIRECT EXPANSION	SA	SUPPLY AIR	RISER UP FROM TEE			
EA	EXHAUST AIR	SAO	SMOKE DETECTOR	DROP FROM TEE			
EAT	ENTERING AIR TEMPERATURE	SEER	SEASONAL ENERGY EFFICIENCY RATING	VERTICAL OFFSET			
EDH	EXHAUST DUCT HEATER	SF	SQUARE FEET	RISER UP FROM ELBOW			
ER	ENERGY EFFICIENCY RATING	SFAN	SUPPLY FAN	DROP FROM ELBOW			
EF	EXHAUST FAN	SH	SENSIBLE HEAT	PRESSURE SENSOR			
EFY	EFFICIENT FAN YIELD	SHV	SHUT OFF VALVE	MOTORIZED VALVE, 3 WAY			
EL	ELEVATION	ST	STORAGE TANK	CONTINUATION			
ELECT	ELECTRICAL	ST	SOUND TRAP				
ET	EXPANSION TANK	SP	STATIC PRESSURE				
EW	ELECTRIC WALL HEATER	SST	SATURATED SUCTION TEMPERATURE				
EWV	ENTERING WATER TEMPERATURE	SSTM	STEAM				
EXH	EXHAUST	T	TEMPERATURE				
F	FAN	TD	TEMPERATURE DIFFERENCE				
FA	FACE AREA	TEMP	TEMPERATURE				
FAP	FAN POWERED BOX	TF	TRANSFER FAN				
FC	FLEXIBLE CONNECTOR	TG	TRANSFER GRILLE				
FCD	FLOOR CLEANOUT	TH	TOTAL HEAT				
FD	FIRE DAMPER	TP	TOTAL PRESSURE				
FF	FLOOR FINISH	TU	VARIABLE VOLUME TERMINAL UNIT				
FLA	FULL LOAD AMPS	UD	UNDERCUT DOOR				
FM	FLOW METER	UH	UNIT HEATER				
FPI	FIRE PER INCH	UHO	UNLESS NOTED OTHERWISE				
PPM	FEET PER MINUTE	V	VENT				
FPS	FEET PER SECOND	VAV	VARIABLE AIR VOLUME				
FS	FLOW SWITCH	VD	VOLUME DAMPER (HAND OPERATOR)				
FSD	FIRE SMOKE DAMPER	VEL	VELOCITY				
FT	FINNED TUBE	VTR	VENT THRU ROOF				
FTU	FAN POWERED VARIABLE VOLUME TERMINAL UNIT	W	WATT				
FVEL	FACE VELOCITY	W/	WITH				
G	GALLONS	WB	WET BULB				
GAL	GALLONS	WC	WATER COLUMN				
GPF	GALLONS PER FLUSH	WCO	WALL CLEANOUT				
GPH	GALLONS PER HOUR	W/O	WITHOUT				
GPM	GALLONS PER MINUTE	WSP	WATER SOURCE HEAT PUMP				
H	HOOD						
HC	HEATING COIL						
HD	HEAD						
HP	PACKAGED ROOFTOP HEAT PUMP						
HP	HORSE POWER						
HRU	HEAT RECOVERY UNIT						
HTG	HEATING						
HTR	HEATER						
HU	HUMIDIFIER						
HWC	HOT WATER COIL						
HWR	HEATING WATER RETURN						
HWS	HEATING WATER SUPPLY						
HX	HEAT EXCHANGER						
HYD	HYDRAULIC						

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**GENERAL PROJECT NOTES**

SHEET TITLE:

**LEGEND MECHANICAL**

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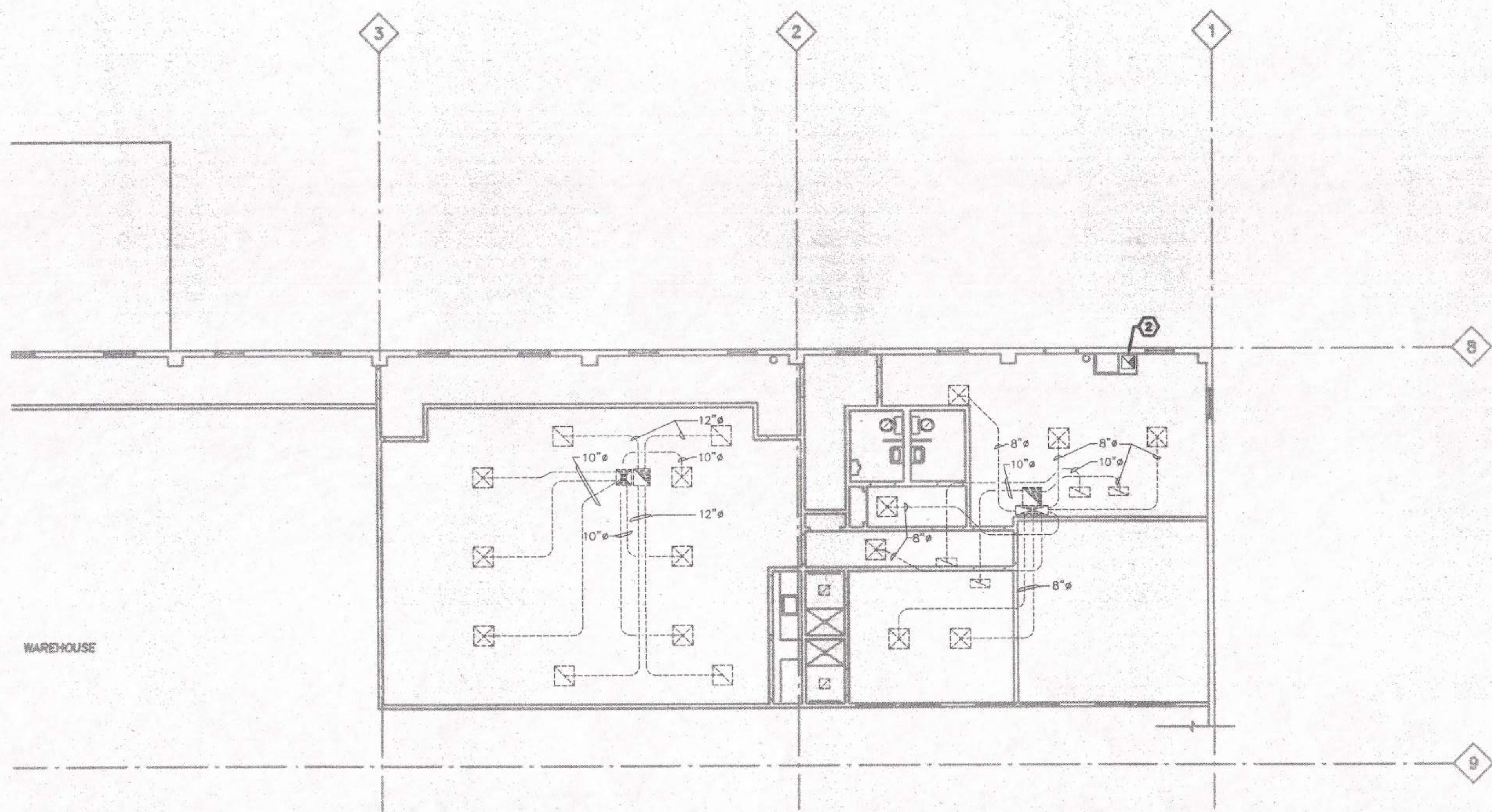
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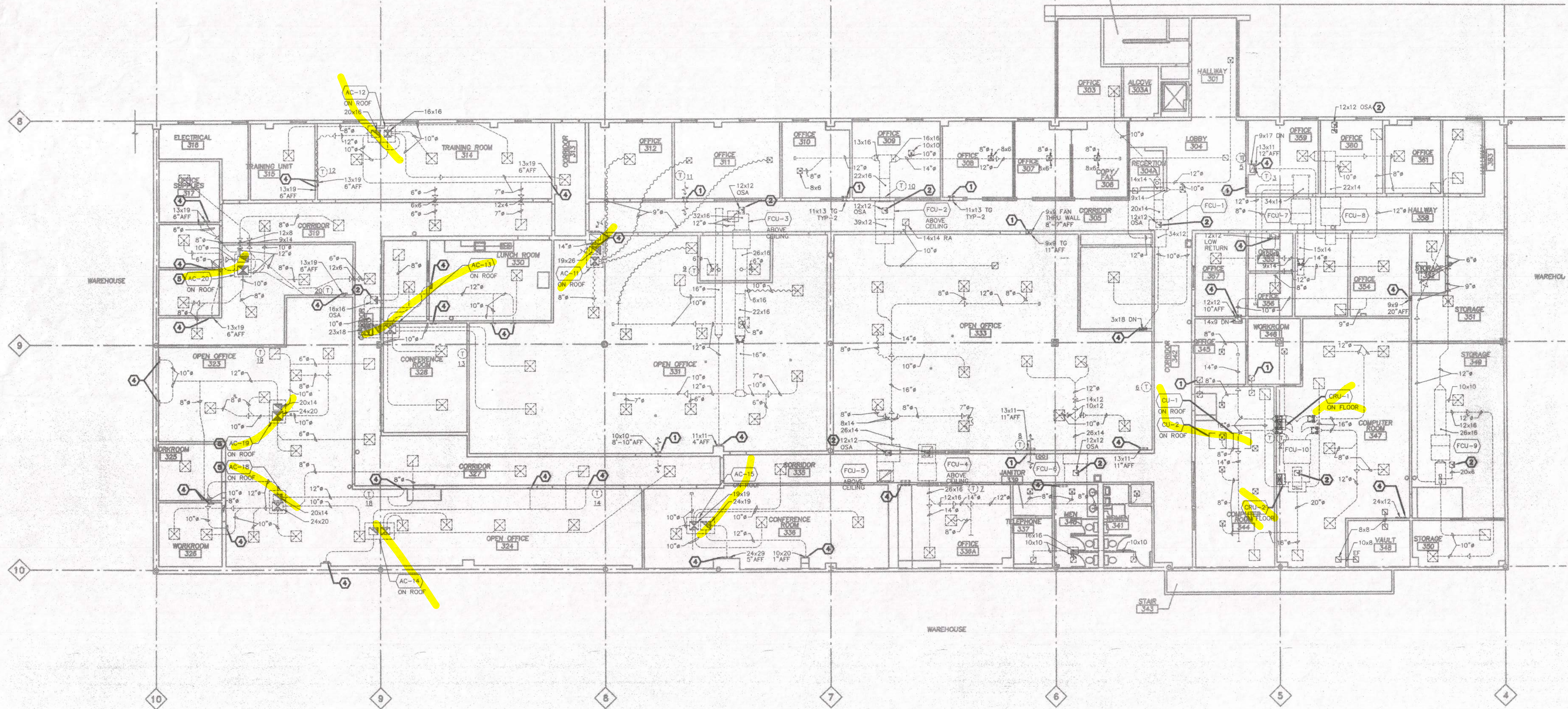
**MO.1**

OF  
 JOB NO. 298349



**2 HVAC PARTIAL DEMOLITION PLAN**  
M2.1 1/8"=1'-0"

- NOTES THIS SHEET**
- 1 REMOVE TRANSFER DUCT/GRILLS. PATCH PER ARCHITECTURAL/STRUCTURAL REQUIREMENTS.
  - 2 REMOVE OSA HOOD, CAP AND DUCT. PATCH ROOF PER ARCHITECTURAL/STRUCTURAL REQUIREMENTS.
  - 3 TRANSITION TO EXISTING RETURN DUCT IN WALL.
  - 4 RETURN GRILLE TO BE REMOVED. RETURN DUCT IN WALL TO REMAIN. PATCH WALL AT OPENING.
  - 5 EXISTING TO REMAIN.



**1 HVAC PARTIAL DEMOLITION PLAN**  
M2.1 1/8"=1'-0"

(BASED ON CONTRACTOR PROVIDED INFORMATION) RECORD DRAWINGS: 9/17/01

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SHEET TITLE:  
**DEMO PLANS HVAC**

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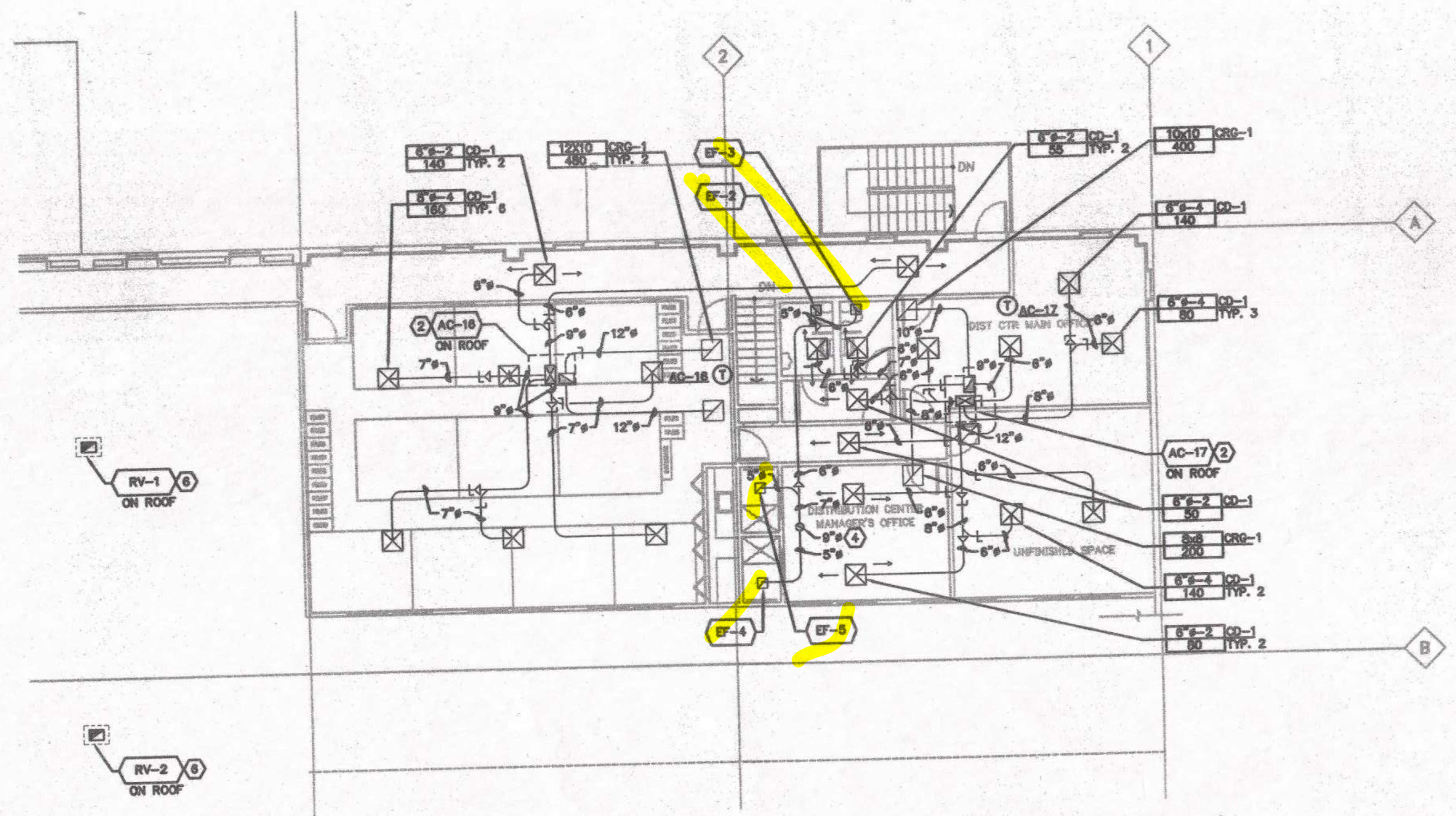
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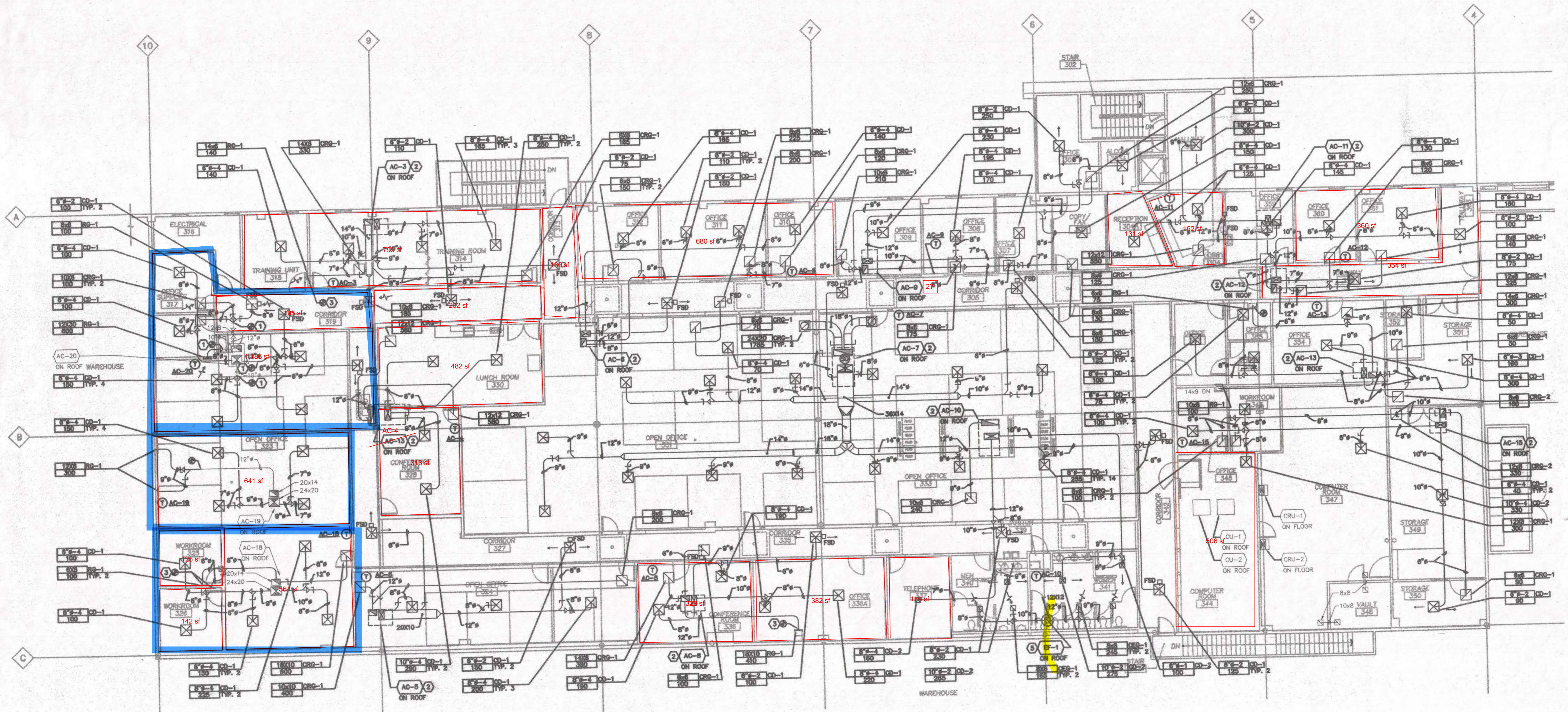
**M2.1**  
OF  
JOB NO. 298349

**NOTES THIS SHEET**

- ① CONNECT TO EXISTING RETURN DUCT IN CEILING.
- ② NEW CURB, SEE 1/M3.1.
- ③ CONNECT TO EXISTING RETURN DUCT IN WALL.
- ④ EXHAUST FROM EF-2,3,4,5. SEE 4/M3.1.
- ⑤ SEE 3/M3.1.
- ⑥ RELIEF FOR BATTERY CHARGE AREA. SEE CURB INSTALLATION DETAIL 3/M3.1.



**2 PARTIAL FLOOR PLAN - HVAC**  
 M2.2 1/8"=1'-0"



**1 PARTIAL FLOOR PLAN - HVAC**  
 M2.2 1/8"=1'-0"

(BASED ON CONTRACTOR PROVIDED INFORMATION) RECORD DRAWINGS : 9/17/01

SHEET TITLE:  
**PARTIAL FLOOR PLANS HVAC**



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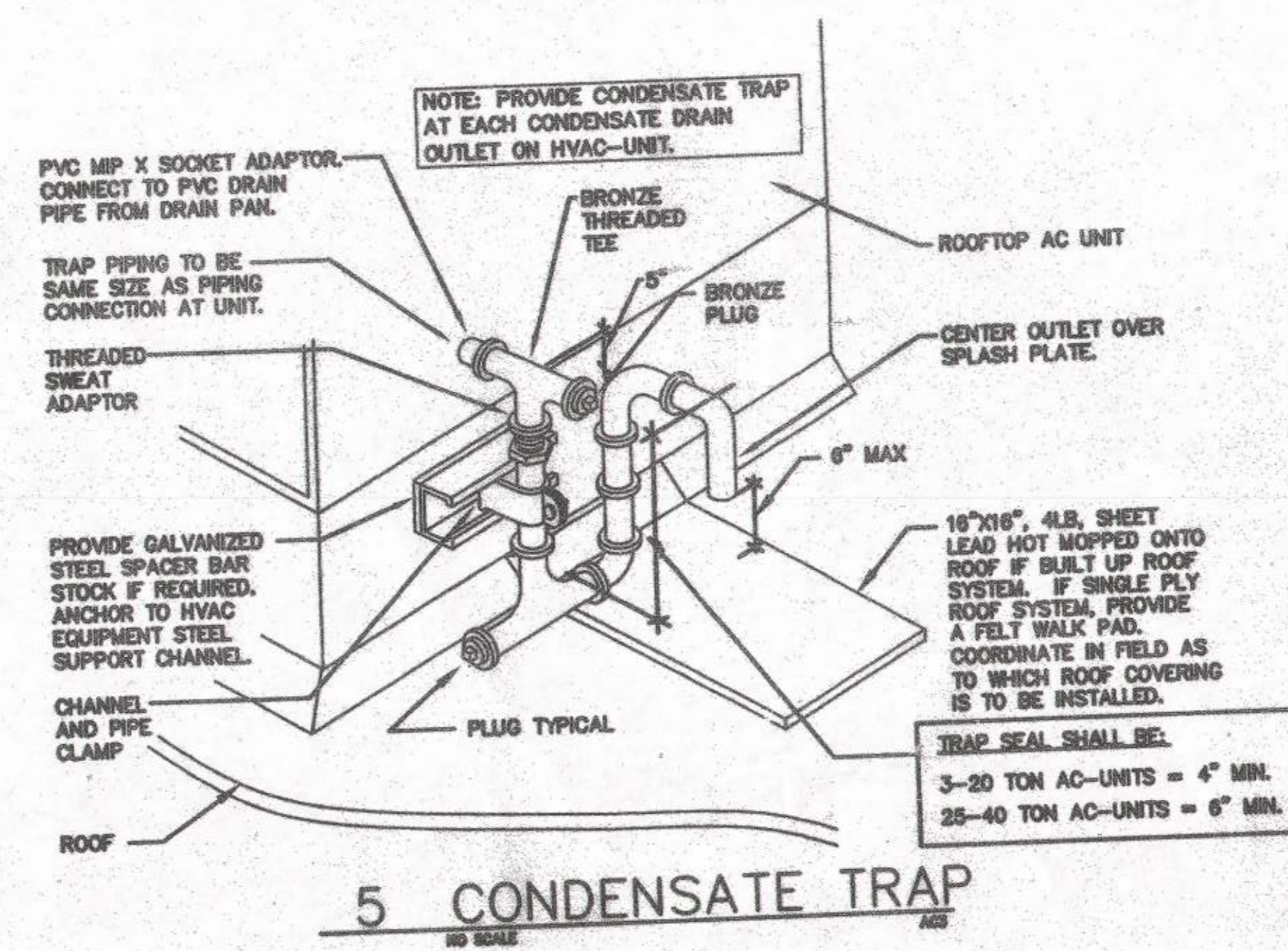
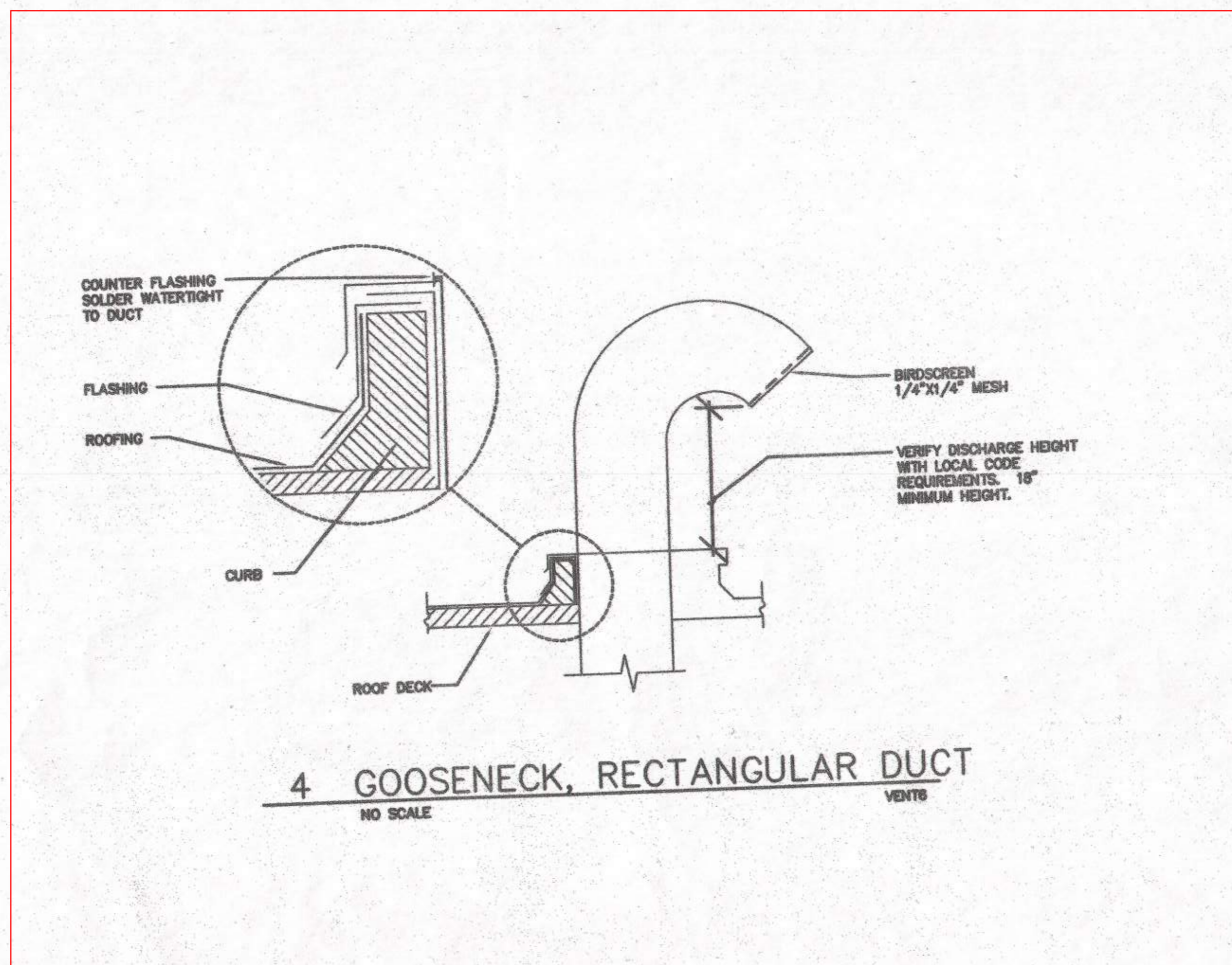
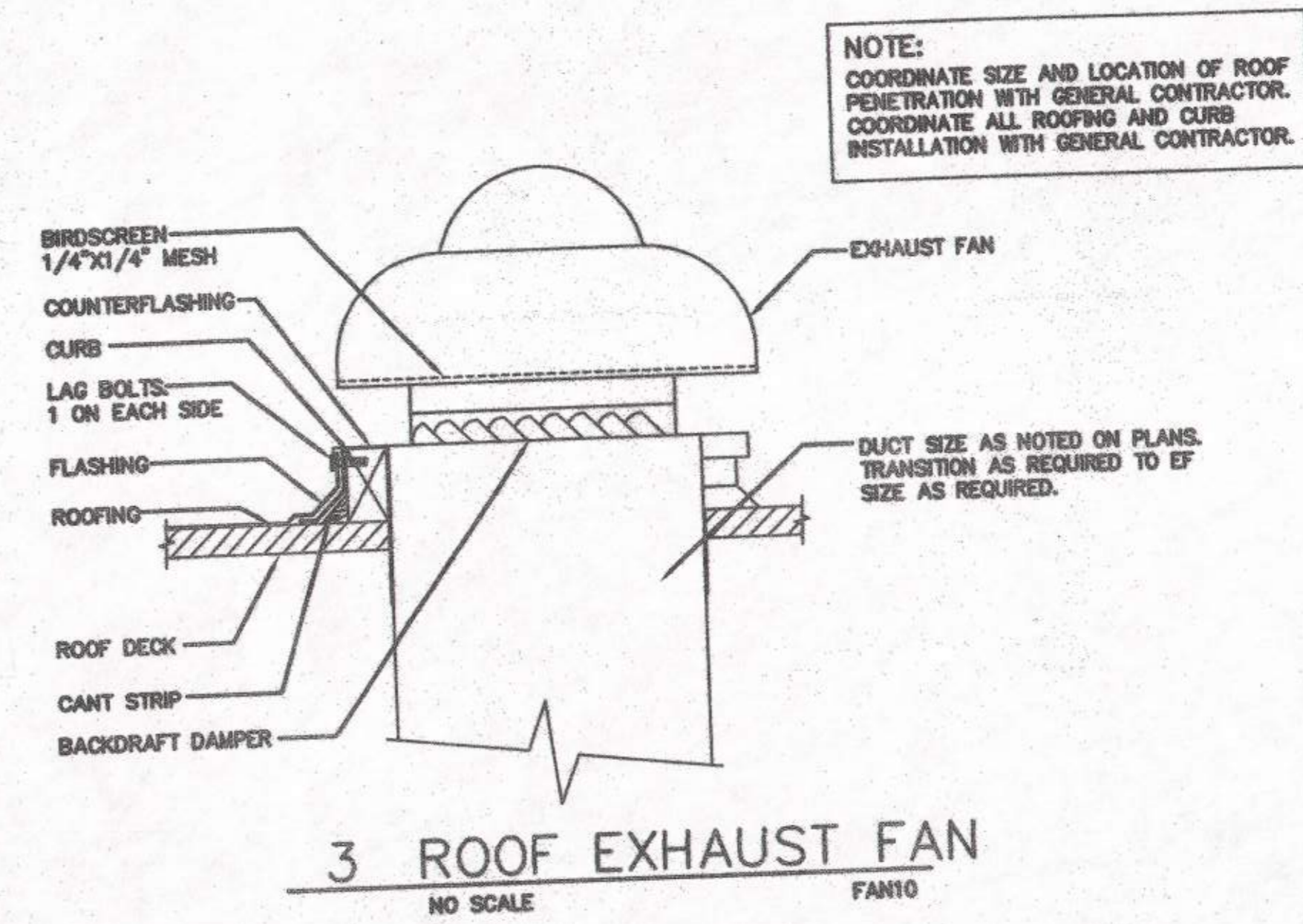
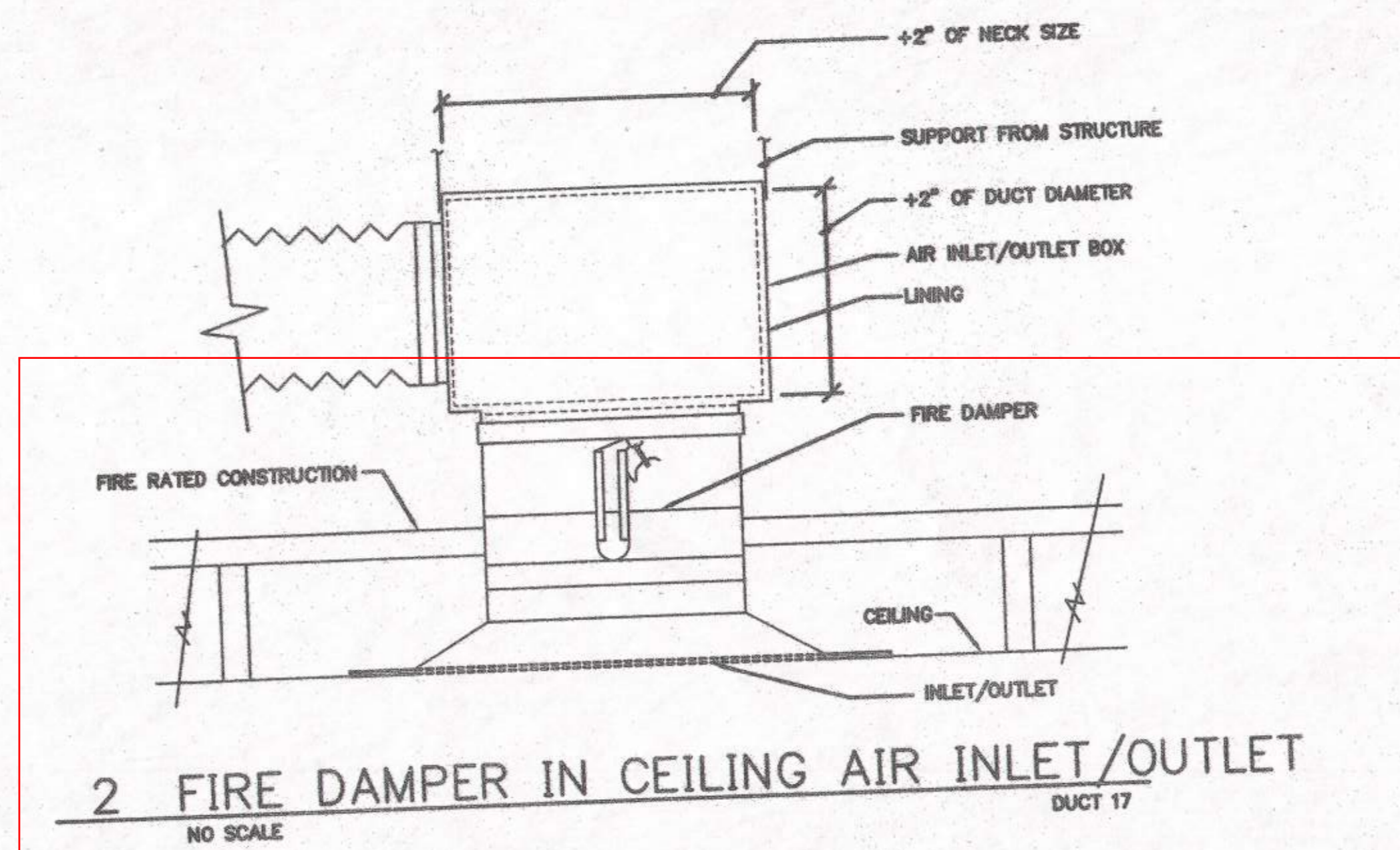
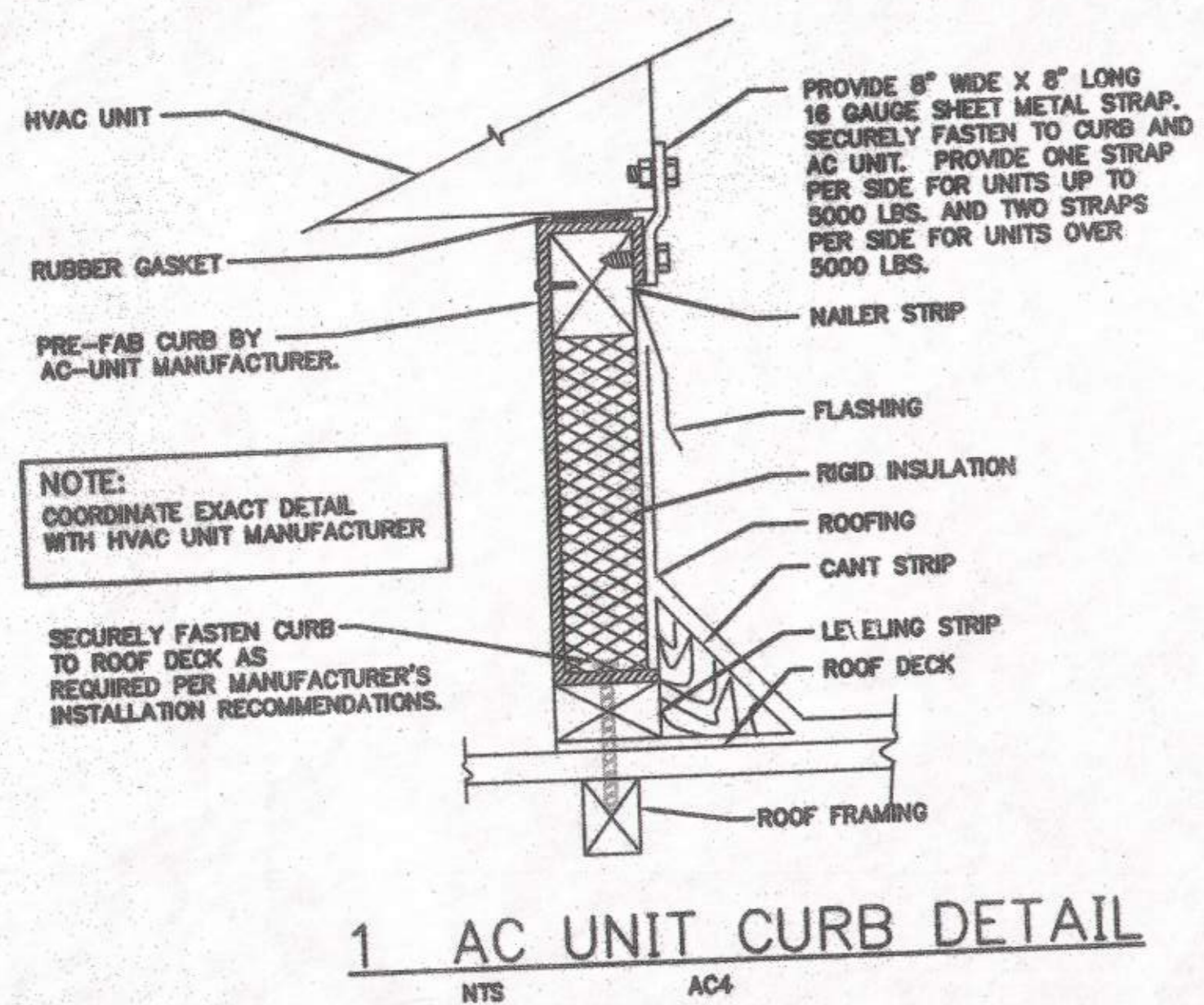
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**M2.2**

OF  
 JOB NO. 298349



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SHEET TITLE:  
**DETAILS  
 HVAC**

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**M3.1**

OF  
 JOB NO. 298349

DIFFUSER, REGISTER AND GRILLE SCHEDULE							
SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	MODEL NO.	REMARKS
CD-1	CEILING DIFFUSER	LOUVERED	T-BAR	NONE	WHITE	TITUS TDC	ROUND NECK
CD-2	CEILING DIFFUSER	LOUVERED	SURFACE	NONE	WHITE	TITUS TDC	ROUND NECK
CR0-1	CEILING RETURN GRILLE	EGGCRATE	T-BAR	NONE	WHITE	TITUS 50F	
CR0-2	CEILING RETURN GRILLE	EGGCRATE	SURFACE	NONE	WHITE	TITUS 50F	
CE0-1	CEILING EXHAUST GRILLE	EGGCRATE	SURFACE	NONE	WHITE	TITUS 50F	
RO-1	SIDEWALL RETURN GRILLE	LOUVERED	SURFACE	NONE	WHITE	TITUS 23RL	45° DEFLECTION

EQUIPMENT SCHEDULE		
SYMBOL	DESCRIPTION	ELECTRICAL
AC-1	NOT USED	
AC-2	NOT USED	
AC-3	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 810 CFM AT 0.5 IN. E.S.P. 80 CFM MIN. OSA. MIN. COOLING: 33.5 MBH TOTAL; 19.2 MBH SEN. AT 76.7°F EDB, 63.1°F EWB, 62.0°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 350 LB. TRANE YD0024.	208V/1φ 17.7 MCA 1/4 HP SUPPLY FAN.
AC-4	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 1080 CFM AT 0.5 IN. E.S.P. 990 CFM MIN. OSA. MIN. COOLING: 43.7 MBH TOTAL; 22.0 MBH SEN. AT 77.4°F EDB, 63.4°F EWB, 62.0°F AMBIENT. MIN. HEATING: 80.0 MBH INPUT; 65.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 800 LB. TRANE YD0027.	208V/3φ .40 HP SUPPLY FAN.
AC-5	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 910 CFM AT 0.5 IN. E.S.P. 120 CFM MIN. OSA. MIN. COOLING: 33.5 MBH TOTAL; 22.0 MBH SEN. AT 77.4°F EDB, 63.4°F EWB, 62.0°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 400 LB. TRANE YD0030.	208V/1φ 22.7 MCA 1/4 HP SUPPLY FAN.
AC-6	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 670 CFM AT 0.5 IN. E.S.P. 80 CFM MIN. OSA. MIN. COOLING: 35.4 MBH TOTAL; 15.4 MBH SEN. AT 77.4°F EDB, 63.4°F EWB, 62.0°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 350 LB. TRANE YD0024.	208V/1φ 17.7 MCA 1/4 HP SUPPLY FAN.
AC-7	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 4100 CFM AT 0.5 IN. E.S.P. 620 CFM MIN. OSA. RETURN/EXHAUST 3,700 CFM AT 0.25 IN. E.S.P. MIN. COOLING: 106.0 MBH TOTAL; 100.0 MBH SEN. AT 77.4°F EDB, 63.4°F EWB, 62.0°F AMBIENT. MIN. HEATING: 135.0 MBH INPUT; 105.0 MBH OUTPUT; WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 1,550 LB. TRANE YD120.	480V/3φ 3 HP SUPPLY FAN.
AC-8	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 900 CFM AT 0.5 IN. E.S.P. 640 CFM MIN. OSA. MIN. COOLING: 35.4 MBH TOTAL; 31.4 MBH SEN. AT 77.4°F EDB, 63.4°F EWB, 62.0°F AMBIENT. MIN. HEATING: 50.0 MBH INPUT; 40.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 400 LB. TRANE YD0030.	208V/1φ 22.7 MCA 1/4 HP SUPPLY FAN.
AC-9	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 1100 CFM AT 0.5 IN. E.S.P. 80 CFM MIN. OSA. MIN. COOLING: 35.4 MBH TOTAL; 24.4 MBH SEN. AT 77.4°F EDB, 63.4°F EWB, 62.0°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 900 LB. TRANE YD0030.	208V/3φ 0.4 HP SUPPLY FAN.
AC-10	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 850 CFM AT 0.5 IN. E.S.P. 820 CFM MIN. OSA. MIN. COOLING: 35.4 MBH TOTAL; 32.2 MBH SEN. AT 77.4°F EDB, 63.4°F EWB, 62.0°F AMBIENT. MIN. HEATING: 80.0 MBH INPUT; 65.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 900 LB. TRANE YD0027.	208V/3φ 0.4 HP SUPPLY FAN.
AC-11	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 580 CFM AT 0.5 IN. E.S.P. 100 CFM MIN. OSA. MIN. COOLING: 14.8 MBH TOTAL; 13.4 MBH SEN. AT 75.0°F EDB, 77.3°F EWB, 68°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 350 LB. TRANE YD0018.	208V/1φ 15 MCA 1/4 HP SUPPLY FAN.
AC-12	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 700 CFM AT 0.5 IN. E.S.P. 80 CFM MIN. OSA. MIN. COOLING: 35.4 MBH TOTAL; 14.2 MBH SEN. AT 75.0°F EDB, 76.5°F EWB, 62°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 350 LB. TRANE YD0024.	208V/1φ 17.7 MCA 1/4 HP SUPPLY FAN.
AC-13	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 800 CFM AT 0.5 IN. E.S.P. 140 CFM MIN. OSA. MIN. COOLING: 35.4 MBH TOTAL; 14.2 MBH SEN. AT 75.0°F EDB, 64.0°F EWB, 62.0°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 310 LB. TRANE YD0024.	208V/1φ 17.7 MCA 1/4 HP SUPPLY FAN.
AC-14	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 1050 CFM AT 0.5 IN. E.S.P. 80 CFM MIN. OSA. MIN. COOLING: 35.4 MBH TOTAL; 24.4 MBH SEN. AT 77.4°F EDB, 62.0°F EWB, 62.0°F AMBIENT. MIN. HEATING: 80.0 MBH INPUT; 62.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 900 LB. TRANE YD0030.	208V/1φ 0.4 HP SUPPLY FAN.
AC-15	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 820 CFM AT 0.5 IN. E.S.P. 0 CFM MIN. OSA. MIN. COOLING: 12.5 MBH TOTAL; 12.5 MBH SEN. AT 75.0°F EDB, 62.8°F EWB, 62.0°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 350 LB. TRANE YD0018.	208V/1φ 15 MCA 1/4 HP SUPPLY FAN.
AC-16	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 1250 CFM AT 0.5 IN. E.S.P. 200 CFM MIN. OSA. MIN. COOLING: 35.4 MBH TOTAL; 29.0 MBH SEN. AT 77.4°F EDB, 63.4°F EWB, 62.0°F AMBIENT. MIN. HEATING: 80.0 MBH INPUT; 62.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 900 LB. TRANE YD0030.	208V/3φ 0.4 HP SUPPLY FAN.
AC-17	PACKAGED ROOFTOP A/C UNIT WITH GAS HEAT: SUPPLY: 1050 CFM AT 0.5 IN. E.S.P. 180 CFM MIN. OSA. MIN. COOLING: 27.0 MBH TOTAL; 23.0 MBH SEN. AT 76.2°F EDB, 63.6°F EWB, 62.0°F AMBIENT. MIN. HEATING: 40.0 MBH INPUT; 32.0 MBH OUTPUT; WITH ROOF CURB AND ECONOMIZER. MIN. 10.0 EER. APPROXIMATE OPERATING WEIGHT: 350 LB. TRANE YD0030.	208V/1φ 21.3 MCA 1/4 HP SUPPLY FAN.
EF-1	CENTRIFUGAL ROOF EXHAUST FAN WITH ALUMINUM HOUSING: 820 CFM AT 0.5 IN. T.S.P. WITH BACKDRAFT DAMPER. MAX RPM 1,200. APPROXIMATE OPERATING WEIGHT: 80 LB.	115V/1φ 1/8 HP.
EF-2,3,4,5	CEILING MOUNTED EXHAUST FAN: 85 CFM AT 0.2 IN. T.S.P. WITH GRILLE AND BACKDRAFT DAMPER. MAX. 3.0 SONES.	115V/1φ 1/20 HP.

**GROUP MACKENZIE**  
Architecture  
Interior Design  
Land Use Planning

**INTERFACE ENGINEERING**  
Mechanical/Electrical  
Structural Engineering  
Transportation Planning

Project  
**OFFICE REMODEL  
FOR THE  
DEPARTMENT  
OF  
CORRECTIONS**  
SALEM,  
OREGON

Mechanical/Electrical  
**INTERFACE ENGINEERING, INC.**  
6542 SE Lake Road  
Milwaukie, Oregon 97222-2138  
Phone: (503)659-6344  
FAX: (503)659-9029

SHEET TITLE:  
**SCHEDULES  
HVAC**

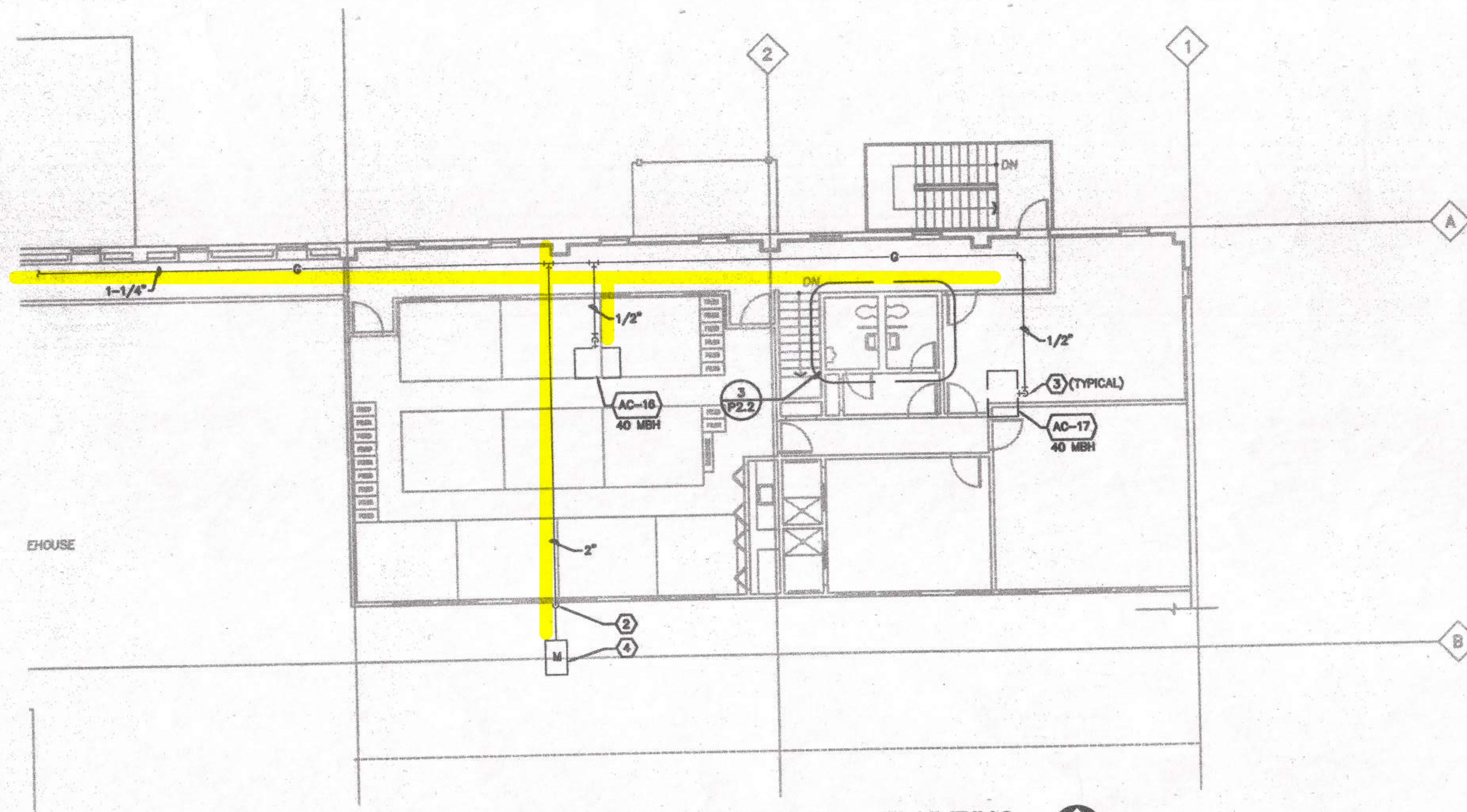
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REVISIONS:  
REVISION EDITION  
CLOSING DATE  
USPS ROOM 11/24/99

DATE:  
DRAWN BY: KDN  
CHECKED BY: JHC  
SHEET

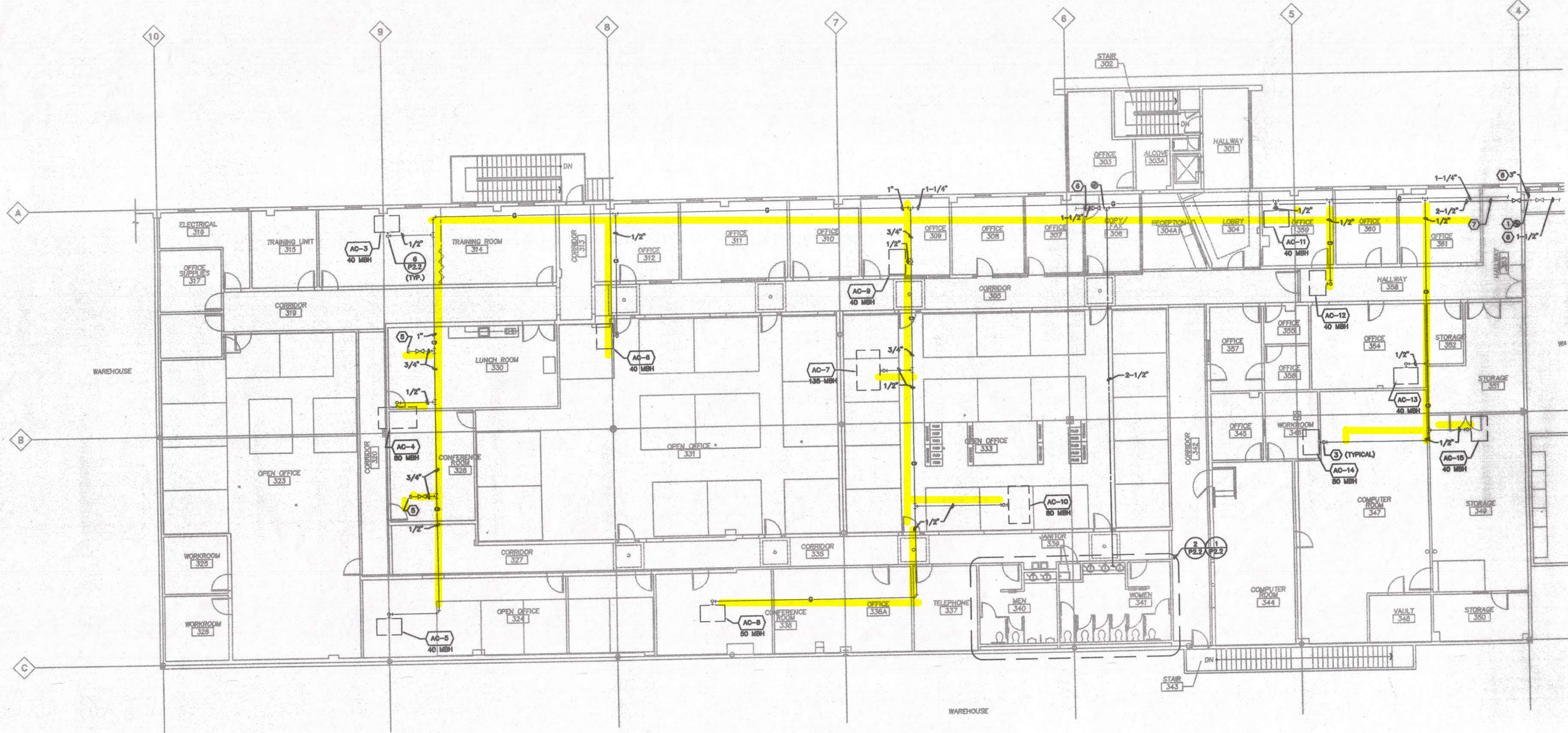
**M4.1**  
OF  
JOB NO. 298349



2 PARTIAL FLOOR PLAN - PLUMBING  
P2.1 1/8"=1'-0"

NOTES THIS SHEET

- 1 REMOVE 3X1-1/2X1-1/2 TEE. INSTALL 3X3X3 TEE.
- 2 ROUTE 1-1/8" GAS PIPING UP EXTERIOR WALL AND PENETRATE INTO CEILING SPACE OF TOP FLOOR.
- 3 1/2" GAS UP THRU ROOF TO CONNECT TO ROOFTOP EQUIPMENT. SEE P.2.2.
- 4 2 LB. GAS SERVICE AND METER PROVIDED BY HW NATURAL GAS CO.  
TOTAL DEVELOPED LENGTH: 400'  
CONNECTED LOAD: 865 MBH FUTURE 240 MBH  
SEE P.2.2 FOR CONNECTION SCHEDULE.
- 5 3/4" CAPPED BRANCH LINE FOR FUTURE GAS LOAD.
- 6 EXISTING TO REMAIN.
- 7 2-1/2" CW SECTION REPLACES EXISTING 1-1/2" SECTION. ABANDON EXISTING 1-1/2" SECTION IN PLACE.



1 PARTIAL FLOOR PLAN - PLUMBING  
P2.1 1/8"=1'-0"

(BASED ON CONTRACTOR PROVIDED INFORMATION) RECORD DRAWINGS : 9/17/01

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SHEET TITLE:  
FLOOR PLAN  
PLUMBING

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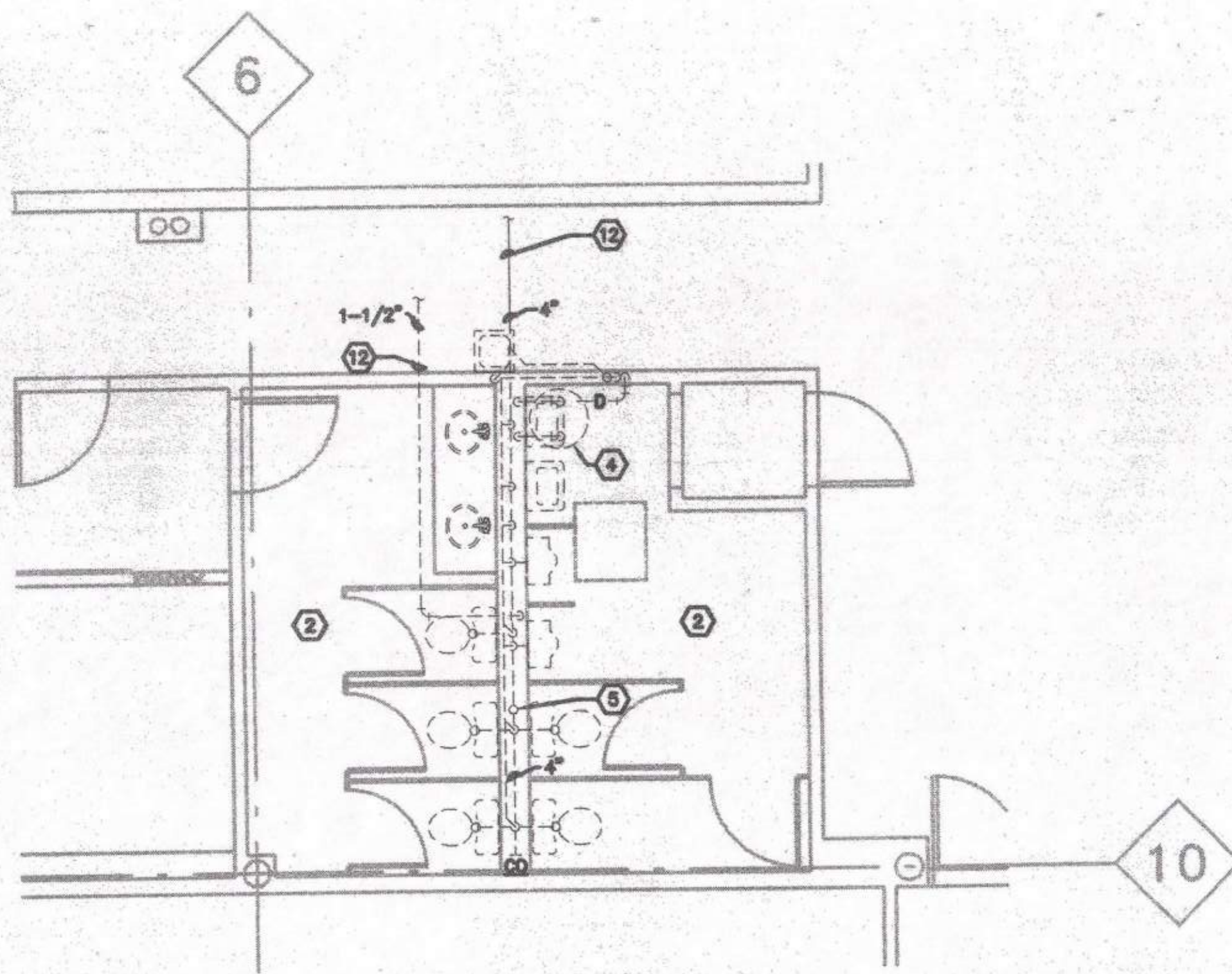
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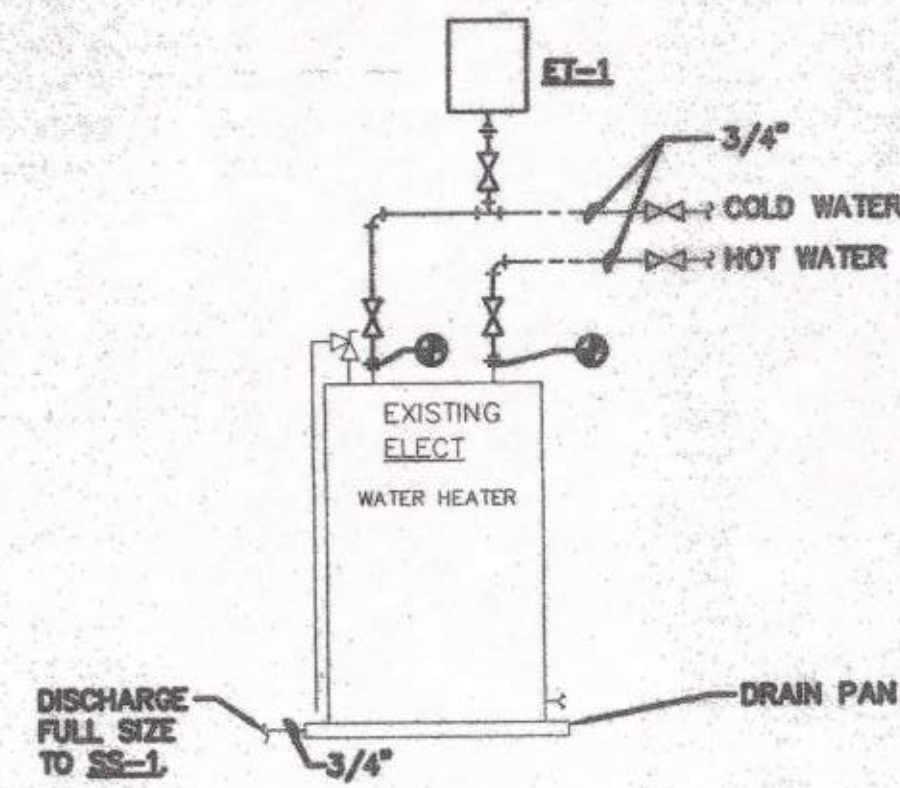
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P2.1

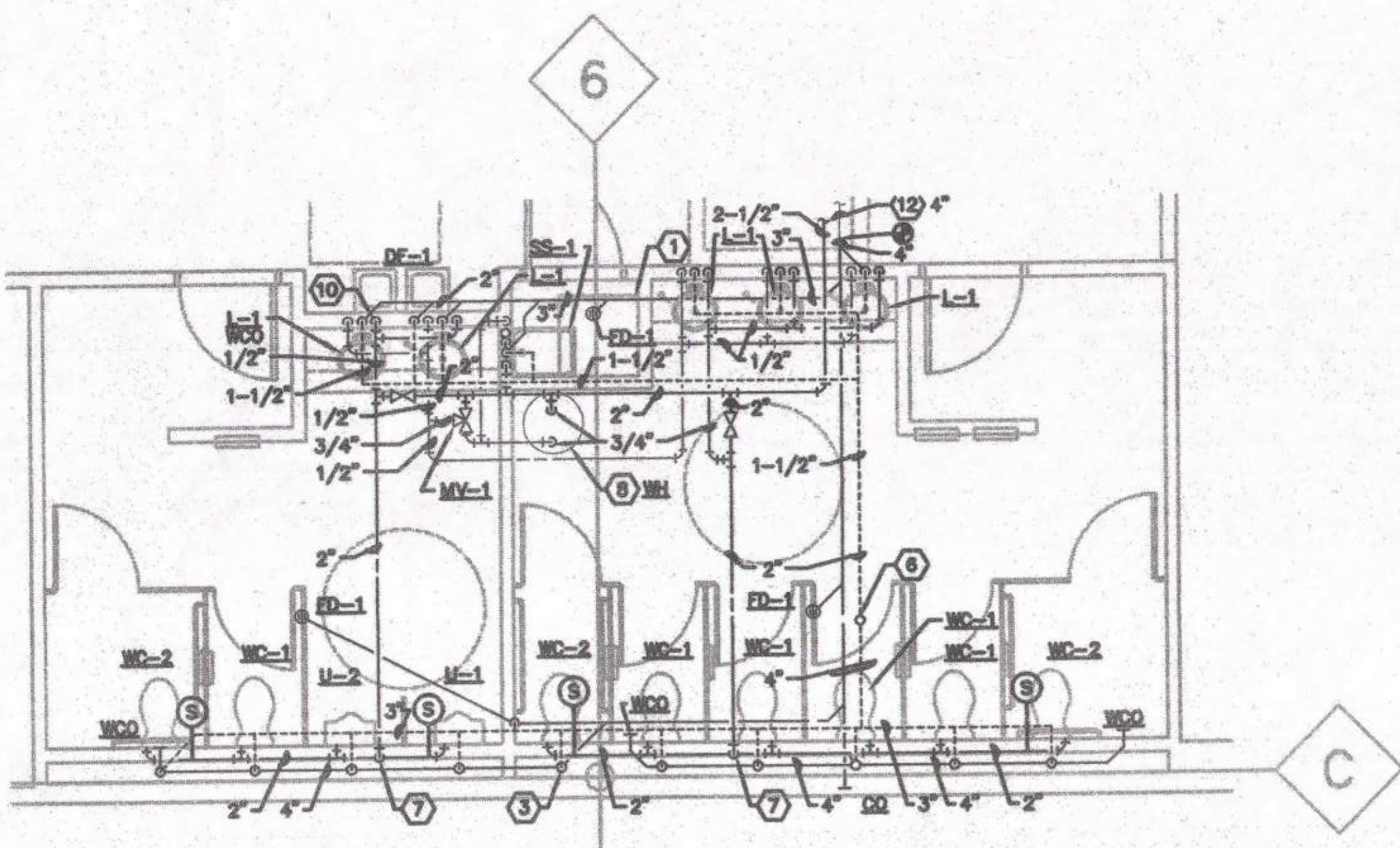
OF  
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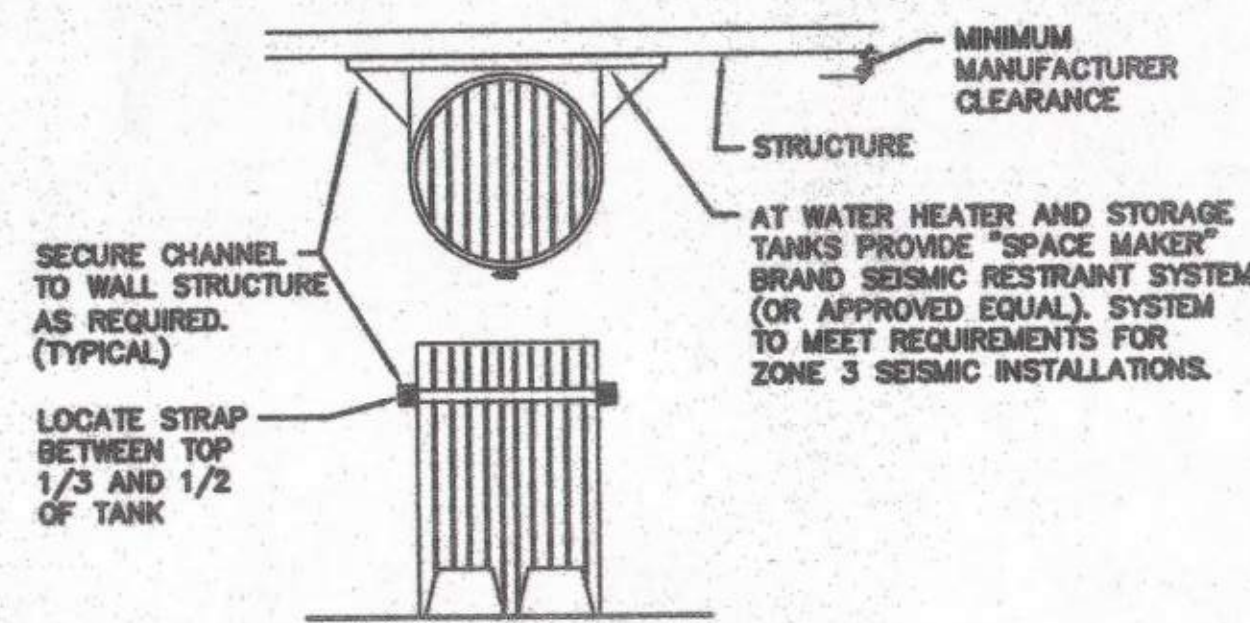
**1 RESTROOM GROUP (WEST) DEMOLITION PLAN**  
P21 1/4"=1'-0"



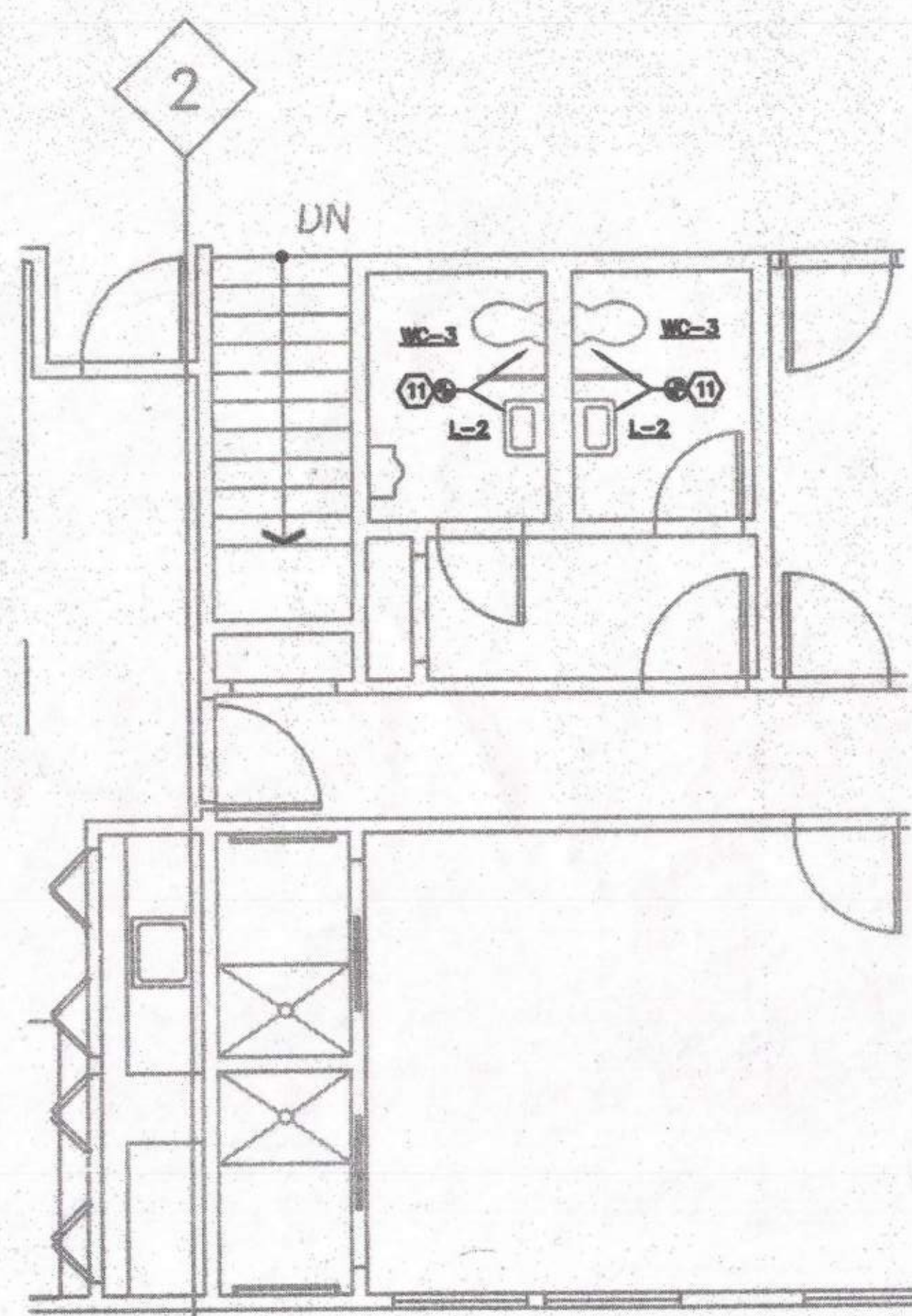
**4 WATER HEATER DETAIL**  
P21 SCALE: NONE



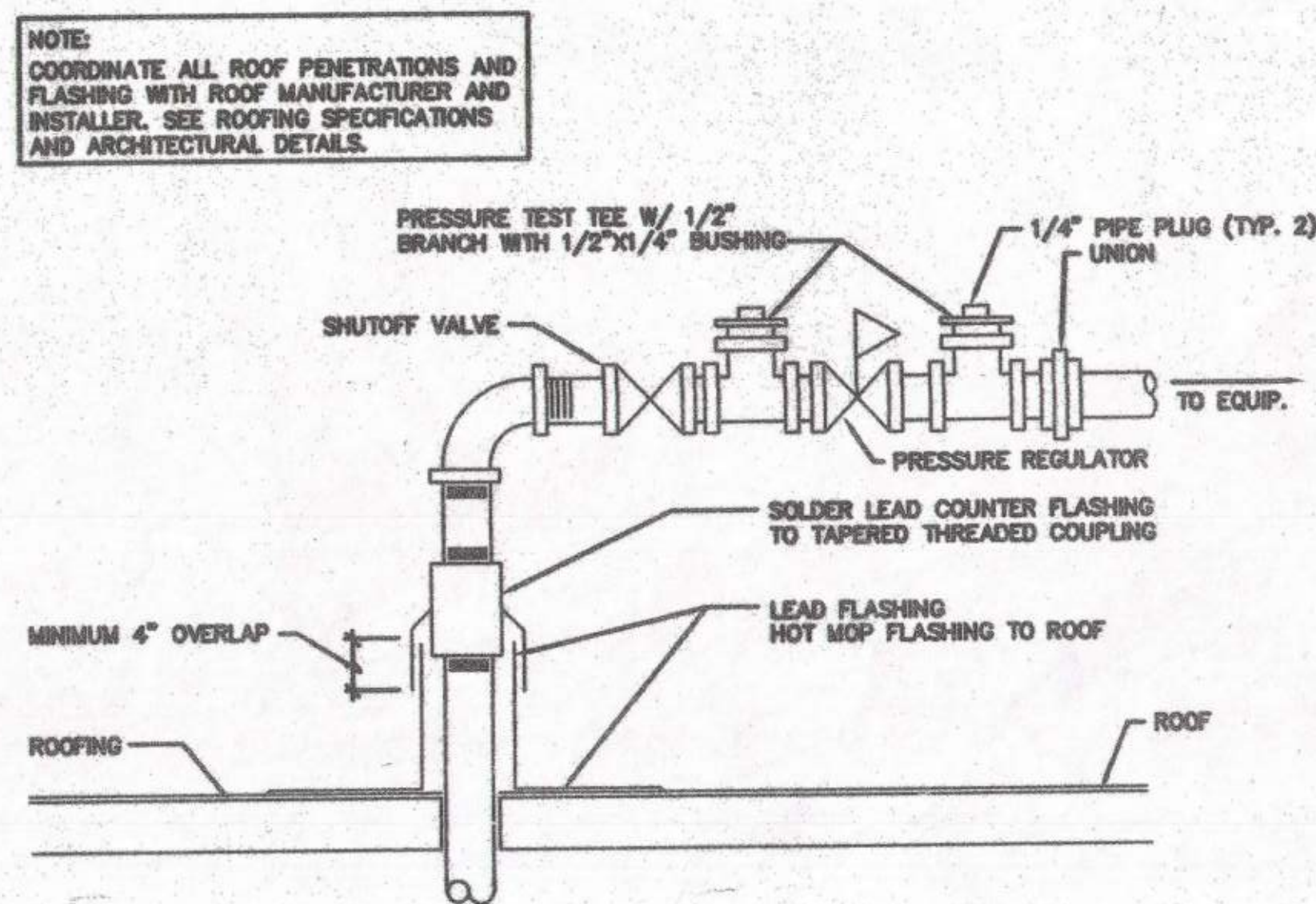
**2 RESTROOM GROUP (WEST) FLOOR PLAN**  
P21 1/4"=1'-0"



**5 SEISMIC BRACING FOR WATER HEATER**  
P21 SCALE: NONE



**3 RESTROOM GROUP (EAST) FLOOR PLAN**  
P21 1/4"=1'-0"



**6 GAS PIPE ROOF PENETRATION**  
P21 SCALE: NONE

**NOTES THIS SHEET**

- 1 30X30 ACCESS PANEL COORDINATE WITH ARCHITECTURAL DWG'S.
- 2 REMOVE ALL PLUMBING FIXTURES. REMOVE ALL BELOW FLOOR DWV PIPING UP TO POINT WHERE NEW WORK CONNECTS TO EXISTING PER 2/P2.2. REMOVE ALL ABOVE FLOOR DWV AND CW/HW PIPING INSULATED CW/HW PIPING ABOVE CEILING TO BE ABANDONED IN PLACE.
- 3 4" SANITARY DN.
- 4 REMOVE AND REUSE EXISTING 40 GAL. ELECTRIC WATER HEATER. SEE 2/P2.2 FOR NEW LOCATION.
- 5 REMOVE EXISTING 3" VTR.
- 6 NEW 4" VTR. ROUTE THRU ROOF PENETRATION LEFT BY REMOVED 3" VENT.
- 7 2" CW DN TO 2" FIXTURE MANIFOLD.
- 8 REUSE EXISTING WATER HEATER. SEE 4/P2.2 AND 5/P2.2.
- 9 NOT USED.
- 10 1/2" CW DN TO SERVE BOTH L-1 AND DE-1.
- 11 REMOVE EXISTING FIXTURES USING EXISTING NEW FIXTURES USING EXISTING CONNECTIONS.
- 12 EXISTING TO REMAIN.

**GAS CONNECTION SCHEDULE**

UNIT	MBH
AC-3	40
AC-4	80
AC-5	40
AC-6	40
AC-7	135
AC-8	50
AC-9	40
AC-10	80
AC-11	40
AC-12	40
AC-13	40
AC-14	80
AC-15	40
AC-16	80
AC-17	40
FUTURE	240
TOTAL	1105

**PLUMBING FIXTURE SCHEDULE**

SYMBOL	DESCRIPTION	CONNECTION SIZE			
		W	V	CW	HW
DF-1	DRINKING FOUNTAIN: STAINLESS STEEL, DUAL HEIGHT, WALL HUNG, HANDICAP, CHROME PLATED BUBBLER, FRONT PUSH BAR, SELF-CLOSING VALVE, AUTOMATIC STREAM REGULATION, VANDAL-RESISTANT BOTTOM PLATE, 1/2 IN. SCREWDRIVER STOP AND TUBING SUPPLY, CHROME PLATED STRAINER, 1-1/4 IN. TRAP, 10 x 6 MOUNTING PLATE FOR INSTALLATION ON WALL STUDS. HANS 1106.	1-1/2"	1-1/2"	1/2"	---
ET-1	EXPANSION TANK: WATTS DET-5.	---	---	3/4"	---
FD-1	FLOOR DRAIN: CAST-IRON BODY WITH ADJUSTABLE ROUND POLISHED NICKEL BRONZE TOP. STRAINER DIAMETER 6 IN. VANDAL-PROOF SCREWS. TRAP PRIMER CONNECTION. PROVIDE WITH P-TRAP. J.R. SMITH 2005-A.	3"	SEE DWGS	---	---
L-1	LAVATORY: COUNTERTOP, FRONT OVERFLOW, VITREOUS CHINA, SELF-RIMMING, 20 IN. BY 17 IN. OVAL. SEALANT, FAUCET HOLES 4 IN. CENTERS. AMERICAN STANDARD 0476.028 "AQUALYN". FAUCET: LEVER HANDLE TYPE, 4 IN. CENTERS, C.P. METAL HANDLE, 1/2 IN. IPS ADAPTORS, VANDAL-RESISTANT 0.5 GPM AERATOR, NO LIFT ROD HOLE, CHROME FINISH WITH PIPE INSTALLATION KIT FOR ADA COMPLIANCE. DELTA 523 HPD. FITTINGS: 1-1/4 IN. BY 1-1/2 IN. P-TRAP. SUPPLIES AND STOPS.	1-1/2"	1-1/2"	1/2"	1/2"
L-2	LAVATORY: WALL HUNG, VITREOUS CHINA, 19 IN. BY 17 IN., FRONT OVERFLOW, SOAP DEPRESSION, FAUCET HOLES ON 4 IN. CENTERS. WALL HANGER. AMERICAN STANDARD 0321.028. AMERICAN STANDARD 0355.012 "LUCERNE". FAUCET: LEVER HANDLE TYPE, 4 IN. CENTERS, C.P. METAL HANDLE, 1/2 IN. IPS ADAPTORS, VANDAL-RESISTANT 0.5 GPM AERATOR, NO LIFT ROD HOLE, CHROME FINISH. DELTA 523 HPD. FITTINGS: 1-1/4 IN. BY 1-1/2 IN. P-TRAP. SUPPLIES AND STOPS. CARRIER: FLOOR MOUNTED WITH CONCEALED ARMS. SMITH AS APPLICABLE.	1-1/2"	1-1/2"	1/2"	1/2"
MV-1	THERMOSTATIC MIXING VALVE: 2.0 GPM AT 10 PSI PRESSURE DROP. SYMONS 5-130.	---	---	3/4"	3/4"
SS-1	SERVICE SINK: FLOOR-MOUNTED, 24 IN. x 24 IN. x 10 IN., MOLDED STONE, S.S. DOMED STRAINER, AND RIM GUARDS. FIAT MSB2424 WITH E-77 AA VINYL RIM GUARDS. FAUCET: HOSE END SPOUT TYPE WITH INTEGRAL VACUUM BREAKER, ADJUSTABLE ARMS WITH INTEGRAL STOPS AND WALL BRACE. CHICAGO 987.	3"	1-1/2"	1/2"	1/2"
U-1	URINAL: SIPHON JET, VITREOUS CHINA, 3/4 IN. TOP SPUD, FLUSHING RIM, EXTENDED WIDTH STALL SIDES, WALL HANGER. AMERICAN STANDARD 8561.017 "THUNDERBOLT". FLUSH VALVE: SLOAN ROYAL 186 WATER SAVER. CARRIER: FLOOR MOUNTED, HANGER PLATE, SMITH AS APPLICABLE, NO RESIDENTIAL.	2"	1-1/2"	3/4"	---
U-2	URINAL: SAME AS U-1, EXCEPT SPECIAL MOUNTING HEIGHT FOR ADA COMPLIANCE.	2"	1-1/2"	3/4"	---
WC-1	WATER CLOSET: WALL HUNG, 1.5 GPF, SIPHON-JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. AMERICAN STANDARD 2257.103 "AFWALL AQUAMETER". SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C. FLUSH VALVE: SLOAN ROYAL 111. CARRIER: SMITH AS APPLICABLE, NO RESIDENTIAL.	4"	2"	1"	---
WC-2	WATER CLOSET: SAME AS WC-1, EXCEPT SPECIAL MOUNTING HEIGHT FOR ADA COMPLIANCE.	4"	2"	1"	---
WC-3	WATER CLOSET: FLOOR MOUNTED, 1.5 GPF, TANK TYPE, ELONGATED BOWL, VITREOUS CHINA, SIPHON JET ACTION, BOLT CAPS, SUPPLY AND STOP. AMERICAN STANDARD 2282.203 "NEW CADET AQUAMETER". SEAT: COMMERCIAL WEIGHT HEAVY-DUTY SOLID PLASTIC, WHITE, OPEN FRONT, STAINLESS STEEL CHECK HINGE, WITHOUT COVER. CHURCH 9500C.	4"	2"	1/2"	---

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**P2.2**

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