

GENERAL NOTES

- CIRCUIT NUMBERS FOR EXISTING PANELS ARE BASED ON AS-BUILT DRAWING INFORMATION AND MAY BE AT VARIANCE WITH ACTUAL CONDITIONS. FIELD INVESTIGATE CIRCUITING AND MAKE ADJUSTMENTS TO CIRCUIT ASSIGNMENTS IN THE PANEL AS REQUIRED. CONNECT TO EXISTING BREAKERS IN THE PANEL AS THEY BECOME AVAILABLE DURING DEMOLITION. ALL HOMERUNS TO EXISTING PANELS ARE TO SPARE BREAKERS OR EXISTING BREAKERS MADE AVAILABLE BY DEMOLITION U.O.I.
- COORDINATE DEMOLITIONS WITH THE OWNER'S PROJECT MANAGER BEFORE EQUIPMENT, DEVICES OR WIRING IS REMOVED.
- REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE AND DISPOSE OF PROPERLY AND LEGALLY.
- FIELD VERIFY EXISTING CONDITIONS AND PROJECT SCOPE PRIOR TO BIDDING THE PROJECT.
- ALL EXISTING EXTERIOR POWER DEVICES AND RECEPTACLES ON THE ROOF, AND ASSOCIATED WIRING SHALL REMAIN UNLESS OTHERWISE INDICATED.
- WEATHERPROOF RECEPTACLES WITH GROUND FAULT CIRCUIT INTERRUPTER PROTECTION ARE FACTORY INSTALLED IN OWNER PROVIDED HVAC ROOFTOP UNITS (RTU'S).
- DISCONNECTS ARE FACTORY INSTALLED IN THE HVAC ROOFTOP UNITS (RTU'S).

ELECTRICAL SPECIFICATIONS

- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
- ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE APPROXIMATE LOCATIONS AND GENERAL ARRANGEMENTS OF THE ELECTRICAL WORK. COORDINATE THE EXACT LOCATIONS OF DEVICES, ETC. WITH THE MILLWORK, EQUIPMENT AND ARCHITECTURE.
- CONCEAL CONDUITS BELOW FLOORS, WITHIN WALLS AND ABOVE CEILINGS WHERE POSSIBLE.
- TEST ALL EQUIPMENT, DEVICES AND WIRING THAT IS PART OF THIS SCOPE OF WORK FOR PROPER OPERATION AND REMEDY ANY DEFECTS.
- ALL CONDUIT, BOXES, FIXTURES, DEVICES AND WIRING SHALL BE NEW UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- PROVIDE ALL HANGERS AND SUPPORTS AS REQUIRED. TIE WIRE AND PLASTIC TIE WRAPS ARE NOT ACCEPTABLE.
- ABOVE GRADE CONDUIT SHALL BE EMT.
- CONDUIT FITTINGS SHALL BE ZINC COATED STEEL, RAIN TIGHT COMPRESSION TYPE. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- MINIMUM SIZE CONDUIT SHALL BE 3/4".
- WHERE CONDUITS PENETRATE FIRE RATED PARTITIONS, THEY SHALL BE SEALED IN AN APPROVED MANNER WITH FIRE RATED SEALANT.
- RUN CONDUITS PARALLEL AND PERPENDICULAR TO THE BUILDING LINES.
- JUNCTION BOXES SHALL BE ZINC COATED STEEL, SIZE AS REQUIRED. JUNCTION BOXES SHALL BE SUPPORTED FROM THE STRUCTURE.
- WIRE SHALL BE THWN OR THHN STRANDED COPPER UNLESS OTHERWISE INDICATED. THE MINIMUM SIZE SHALL BE NO. 12.
- WIRE FOR CONTROL AND ALARM SHALL BE COPPER OF THE TYPES SPECIFIED AND REQUIRED BY THE SYSTEMS MANUFACTURER.
- COLOR CODING OF THE WIRE SHALL BE THE SAME AS THE EXISTING.
- INSULATION ON WIRING NO. 8 AND SMALLER SHALL BE FACTOR COLOR CODED.
- WIRE CONNECTORS FOR NO. 8 AND SMALLER SHALL BE TOOL APPLIED, INSULATED, TWIST-ON TYPE APPROVED FOR THE WIRE SIZES.
- THE CONTRACTOR SHALL MAKE MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM AS REQUIRED. PROVIDE DEVICES AS INDICATED ON THE DRAWINGS. PROVIDE OUTLET BOXES, CONDUIT, WIRING AND PROGRAMMING AS REQUIRED TO PROVIDE A COMPLETE OPERATING SYSTEM. NEW DEVICES SHALL BE THE SAME AS EXISTING AND COMPATIBLE WITH THE EXISTING SYSTEM.
- FLEXIBLE METAL CONDUIT SHALL BE ZINC COATED OR GALVANIZED STRIP STEEL WITH CLAMP TYPE FITTING WITH INSULATED THROATS. LIQUID TIGHT FLEXIBLE CONDUIT SHALL BE FURNISHED WITH A PVC JACKET.
- PANELBOARDS SHALL BE GE, CIRCUIT BREAKER TYPE AS SPECIFIED BELOW. EACH PANELBOARD SHALL HAVE A LOCKABLE DOOR WITH A CIRCUIT DIRECTORY CARD AND FRAME TYPE CARD HOLDER INSIDE THE DOOR. LOAD CENTERS WILL NOT BE PERMITTED. PANELBOARD PHASE, NEUTRAL AND GROUND BUSSES SHALL BE ALUMINUM WITH FULL AMPERE RATED NEUTRAL BUSSES AND GROUND BUSSES. PROTECTIVE DEVICES AND BUSSES SHALL BE FULLY RATED. SERIES RATING OF DEVICES AND BUSSES SHALL NOT BE ACCEPTABLE. OVERCURRENT PROTECTIVE DEVICE TYPE SHALL BE BOLT ON MOLDED CASE CIRCUIT BREAKERS. WHERE INDICATED OR REQUIRED, CIRCUIT BREAKERS SHALL HAVE GROUND FAULT TRIPPING DEVICES.

KEYNOTES

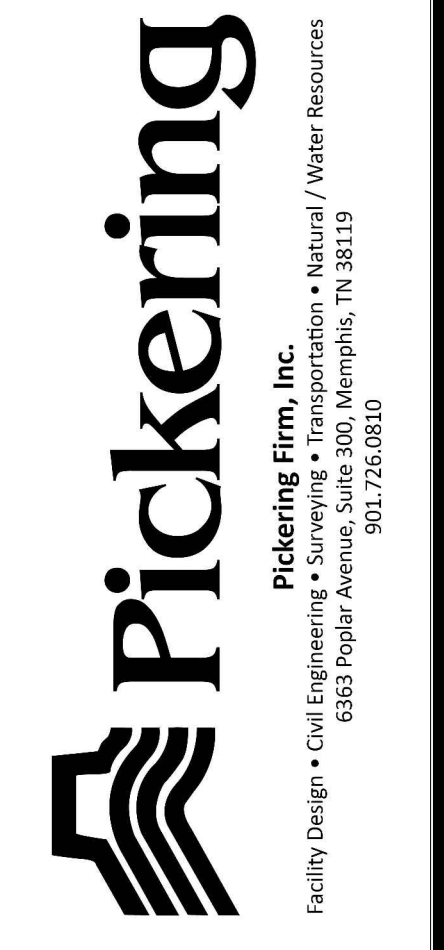
- DISCONNECT EQUIPMENT AND REMOVE WIRING AND CONDUIT BACK TO THE SOURCE. TURN OFF THE BREAKER AND LABEL AS SPARE.
- 3#6, 1#10G - 3/4" C
- 3#250 KCMIL AL, 1#2 AL G - 2 1/2" C
- 3#4, 1#8G - 1" C
- DISCONNECT AND THEN RECONNECT WIRING TO THE EXHAUST FAN (EF-4E) AS REQUIRED. FAN TO BE MODIFIED AND REINSTALLED. SEE MECHANICAL DRAWINGS.

ELECTRICAL LEGEND

GENERAL	
	LIGHTING OR RECEPTACLE PANELBOARD M.H. = 6'-6" TO TOP OF PANEL
	KEYNOTE CALLOUT
	PANELBOARD AND CIRCUIT DESIGNATION
	RACEWAY CONCEALED IN WALL OR CEILING OR EXPOSED ON STRUCTURE AS REQUIRED.
	HOMERUN TO PANELBOARD - LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT
	INDICATES #10 GROUND CONDUCTOR U.O.I. (DOUBLE TICK/SLASH INDICATES ISOLATED GROUND)
NOTE: ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 WIRE No.10 AWG CIRCUIT WITH A No.10 AWG GROUND. A GREATER NUMBER OF WIRES IS INDICATED AS FOLLOWS:	
	4 WIRE, 2 CIRCUITS & GROUND (LONGER SLASH INDICATES NEUTRAL)
	6 WIRE, 3 CIRCUITS & GROUND, ETC. (WIRING LARGER THAN No.10 AWG SHALL BE AS NOTED)
	DIRECT CONNECTION TO EQUIPMENT - NO LOCAL DISCONNECT/RECEPTACLE
	TESTING STATION
	DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM SYSTEM RELAY MODULE

REVISIONS:

PROJECT #: 26457.00
 DATE: JAN. 04, 2024
 DRAWN BY: PFI
 DESIGNER: PFI
 CHECKED BY: PFI



KROGER Y-624
HVAC RENOVATION
 1009 WEST MAIN ST
 RUSSELLVILLE, AR 72801

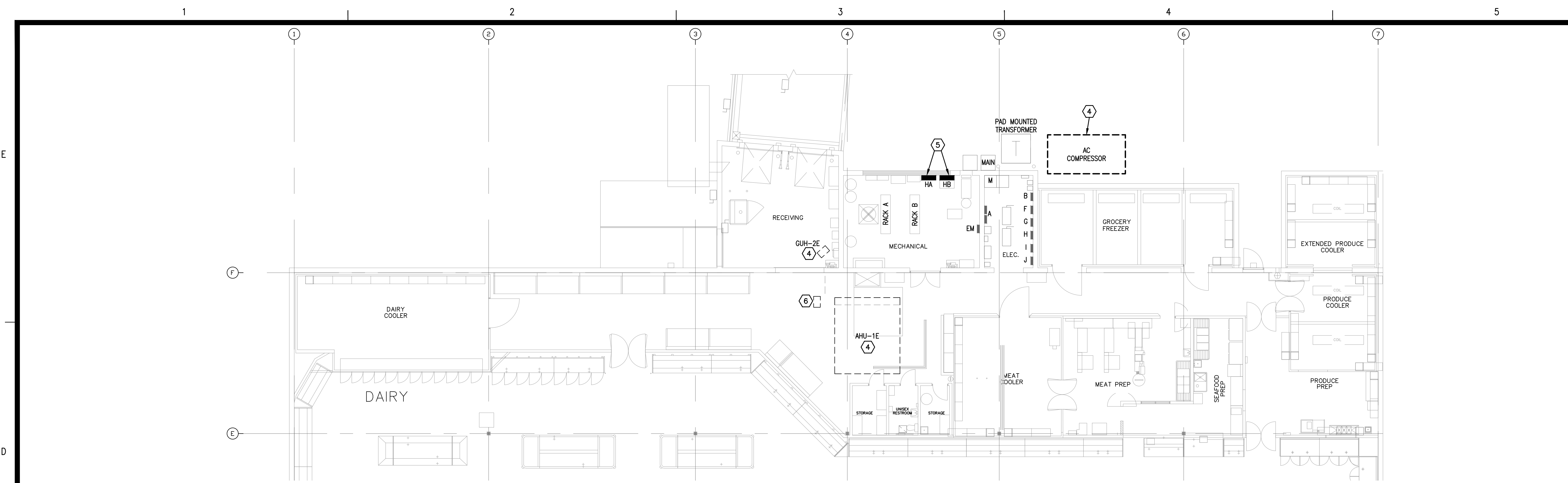
SEAL:

SHEET NUMBER:

E1.4

DESCRIPTION:
 ROOF POWER PLAN

PROJECT: KROGER Y-624 - HVAC RENOVATION - AR
 DATE: 01/04/2024
 DRAWN BY: PFI
 CHECKED BY: PFI
 PROJECT LOCATION: 1009 WEST MAIN ST, RUSSELLVILLE, AR 72801
 PROJECT NUMBER: 26457.00



GENERAL NOTES

1. ALL WIRING SHALL BE THHN/THWN COPPER, U.O.I.
2. EQUIPMENT AND FEEDERS SHOWN IN GRAY SCALE INDICATES EXISTING TO REMAIN. BOLD INDICATES NEW WORK. CROSS HATCHING INDICATES EQUIPMENT AND FEEDERS TO BE REMOVED.
3. THE CONTRACTOR SHALL COORDINATE FEEDER SIZES WITH LUG SIZES FOR BREAKERS, PANELBOARDS, DISCONNECT SWITCHES, ETC. AND ADJUST THE BREAKER FRAME SIZES AND LUGS AS REQUIRED.
4. THE CONTRACTOR SHALL DETERMINE THE ROUTING OF ALL FEEDERS TO PANELBOARDS, ETC. COORDINATE ROUTING WITH DUCTWORK, PIPING AND GENERAL CONSTRUCTION.
5. SEE PANEL SCHEDULE FOR LOAD AND FAULT CURRENT RATING OF NEW PANEL.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL BREAKERS AND FUSED SWITCHES, FUSES, ETC. REQUIRED FOR THE SCOPE OF THIS WORK FOR EXISTING PANELS AND SWITCHBOARDS.
7. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF PANELBOARDS, DISCONNECTS, ETC. TO AVOID CONFLICTS WITH PIPING, DUCTWORK, STRUCTURE, ETC. AND PROVIDE CODE REQUIRED CLEARANCES.
8. ALL NEW PANELS AND CIRCUIT BREAKERS SHALL BE FULLY RATED U.O.I.

KEYNOTES

1. (2) 4-250 KCMIL AL, 1#1 AL G - 2 1/2" C
2. (2) 4-4/0 AL, 1#1 AL G - 2 1/2" C
3. CONNECT TO EXISTING CIRCUIT BREAKER
4. DISCONNECT EQUIPMENT AND REMOVE WIRING AND CONDUIT BACK TO THE SOURCE. TURN OFF THE BREAKER AND LABEL AS SPARE.
5. REMOVE ABANDONED INACTIVE EQUIPMENT AND WIRING ON THE WALL TO MAKE ROOM FOR THE NEW PANEL.
6. DISCONNECT THE EXISTING UNIT HEATER. RETAIN THE WIRING FOR CONNECTION TO THE RELOCATED UNIT HEATER (GUH-2E). CONNECT THE RELOCATED UNIT HEATER TO THE EXISTING WIRING AS REQUIRED. SEE MECHANICAL DRAWINGS.

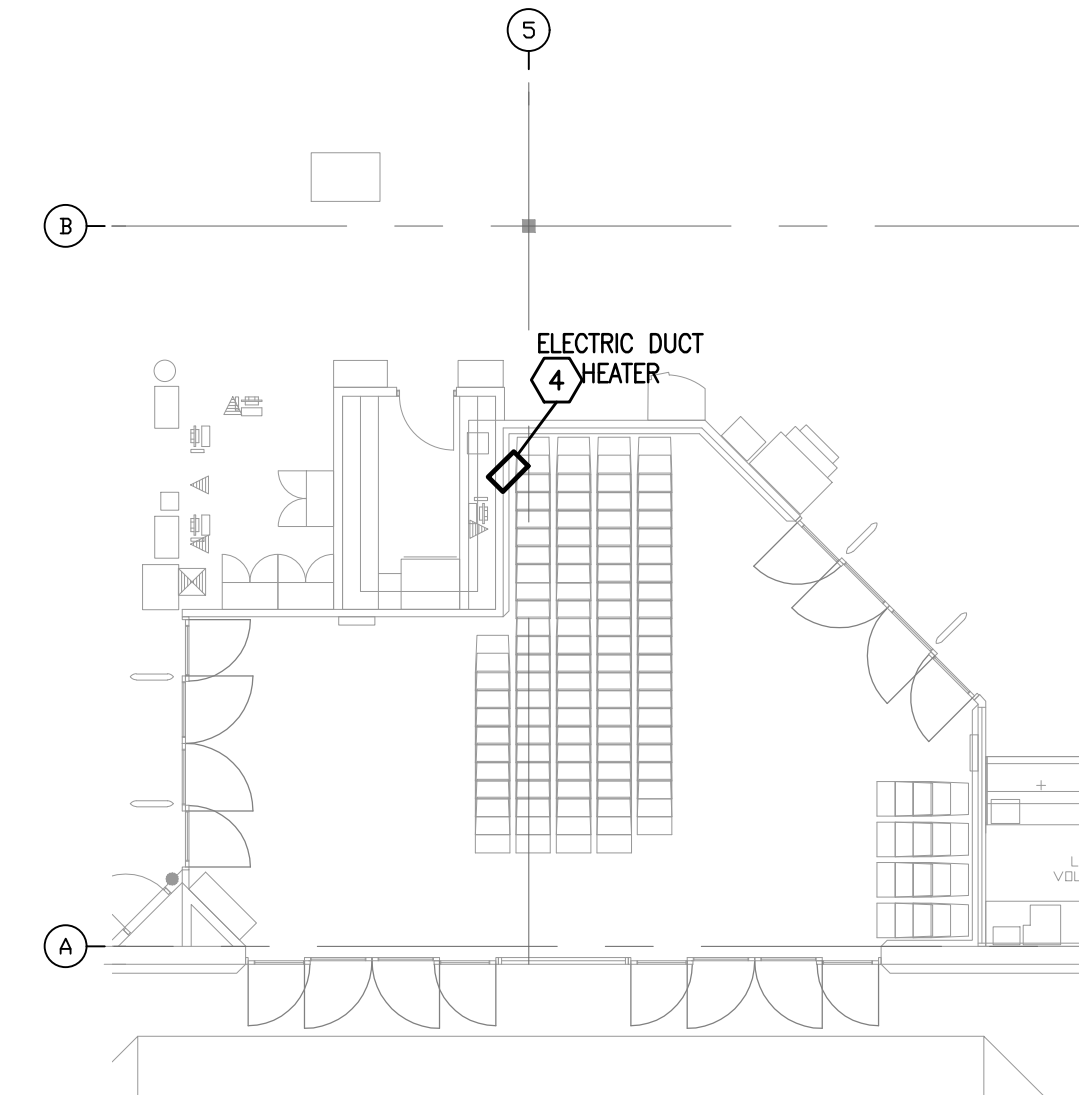
1D PARTIAL ELECTRICAL POWER PLAN
3/32" = 1'-0"

Panel Name: HA		MLO or Main C.B.: MLD	
Panel Location: 120/208V		Surface or Finish: SURFACE	
Voltage: 120/208V		Frame Amps: 400	
Phase/Wire: 3PH/4W		Grounding: EQUIPMENT GROUND	
Minimum Interrupting Rating:		Sections: ONE SECTION - 12X	
New/Existing: New		Nema Rating: NEMA 1	

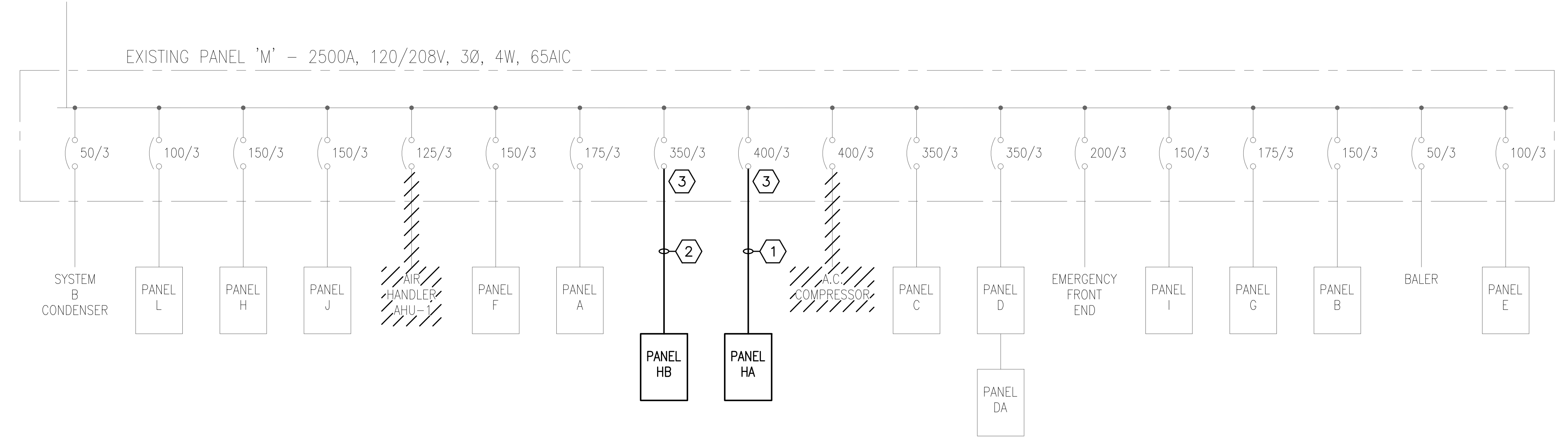
Load VA	LOAD TYPE	Cont #	Branch Load Data	Wire	Breaker	Wire	Branch Load Data	LOAD TYPE	Load VA
Ph A	Ph B	Ph C		Trips	Poles	No.	Trips		Ph A
23160			RTU-2	225	3	1 a 2	PROVISION		
6480			RTU-4	70	3	7 a 8	RTU-3	H	5040
29640	29640	29640	Sum per phase (VA) left side		Sum per phase (VA) right side				
5040	5040	5040	Sum per phase (VA) right side		Sum per phase (VA) panel				
34680	34680	34680	Sum per phase (VA) panel		Load Balance				
		289 amps		Total Connected (VA):		104040			
		350 amps		Largest Phase Load		289			
		Minimum Feeder Rating		Total Connected Amps:		338			
		Calculated Load (Amps) @ 117%							

Panel Name: HB		MLO or Main C.B.: MLD	
Panel Location: MECHANICAL ROOM		Surface or Finish: SURFACE	
Voltage: 120/208V		Frame Amps: 400	
Phase/Wire: 3PH/4W		Grounding: EQUIPMENT GROUND	
Minimum Interrupting Rating:		Sections: ONE SECTION - 12X	
New/Existing: New		Nema Rating: NEMA 1	

Load VA	LOAD TYPE	Cont #	Branch Load Data	Wire	Breaker	Wire	Branch Load Data	LOAD TYPE	Load VA
Ph A	Ph B	Ph C		Trips	Poles	No.	Trips		Ph A
23160			RTU-1	225	3	1 a 2	PROVISION		
5040			RTU-5	50	3	7 a 8	PROVISION	H	5040
28200	28200	28200	Sum per phase (VA) left side		Sum per phase (VA) right side				
28200	28200	28200	Sum per phase (VA) right side		Sum per phase (VA) panel				
		235 amps		Total Connected (VA):		84600			
		300 amps		Largest Phase Load		235			
		Minimum Feeder Rating		Total Connected Amps:		282			
		Calculated Load (Amps) @ 120%							



5B PARTIAL ELECTRICAL POWER PLAN
3/32" = 1'-0"

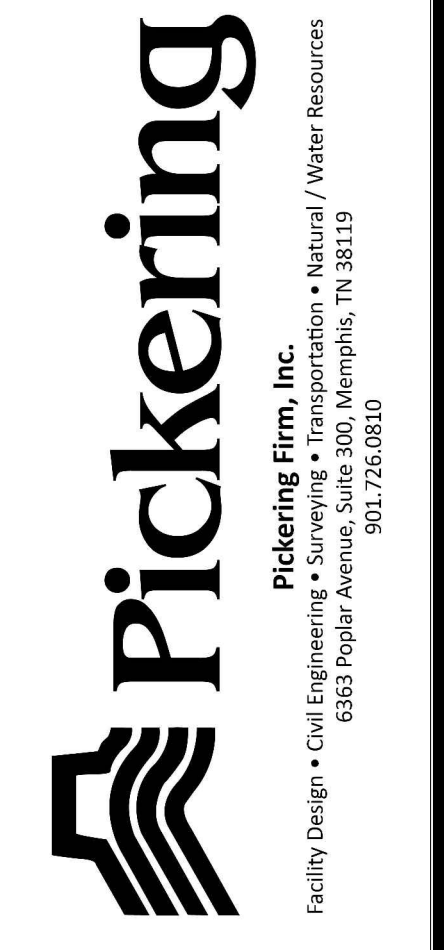


1A SINGLE LINE ELECTRICAL DIAGRAM
NOT TO SCALE

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS:

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DESIGNER: PFI
CHECKED BY: PFI



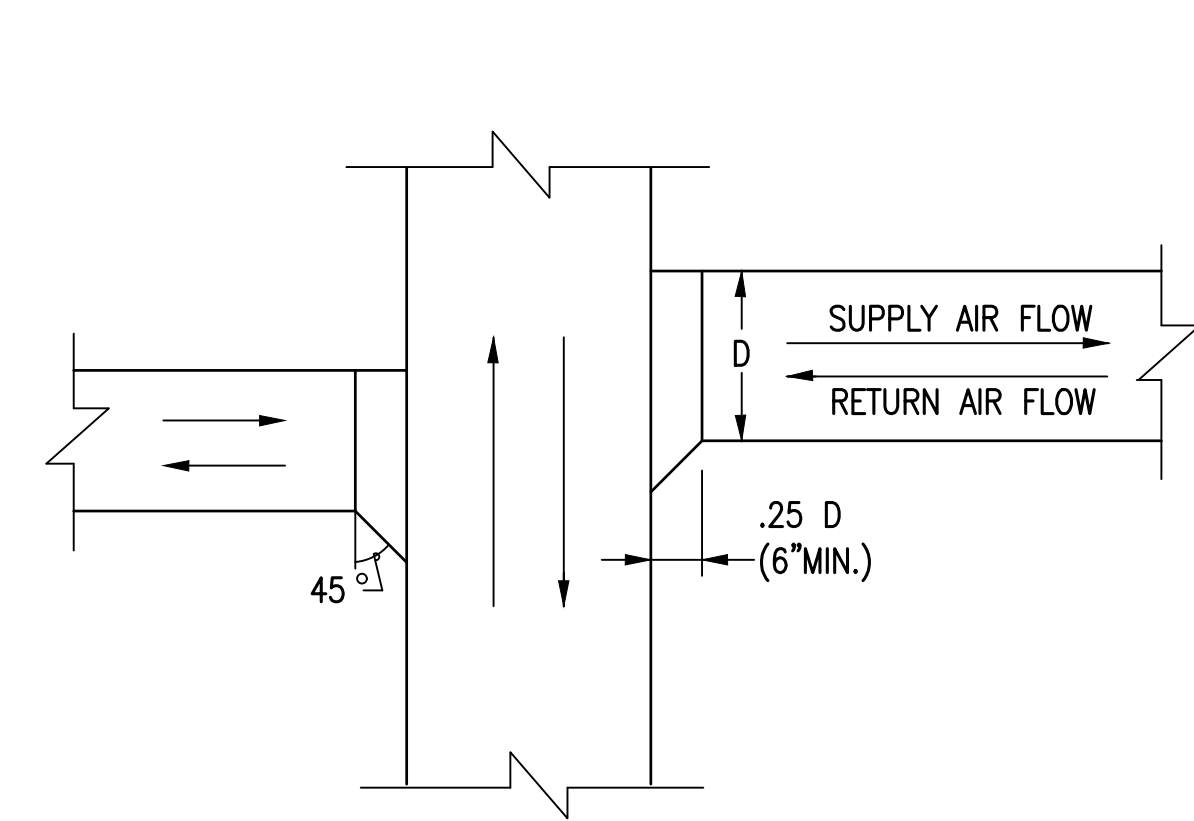
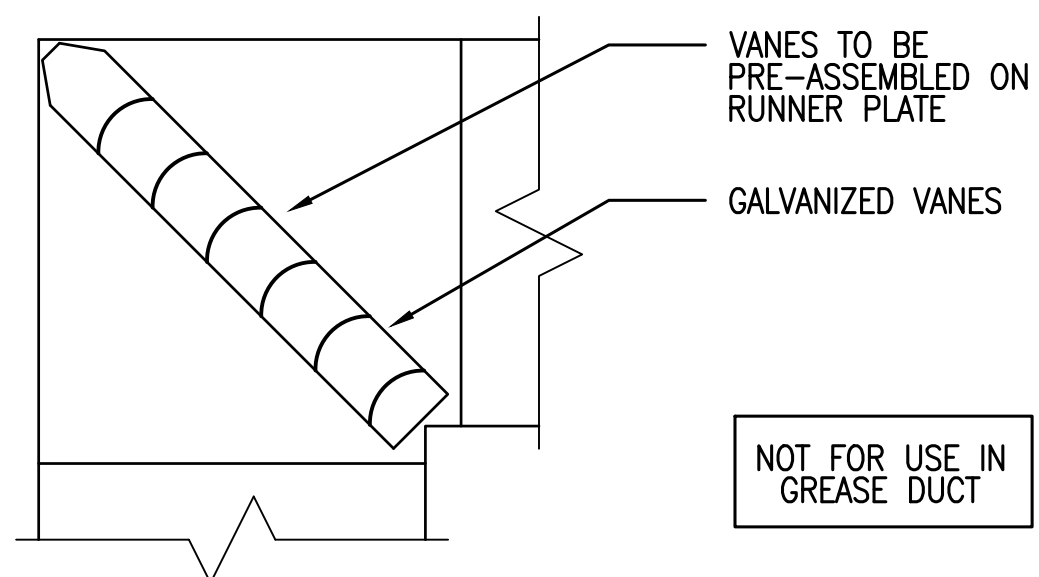
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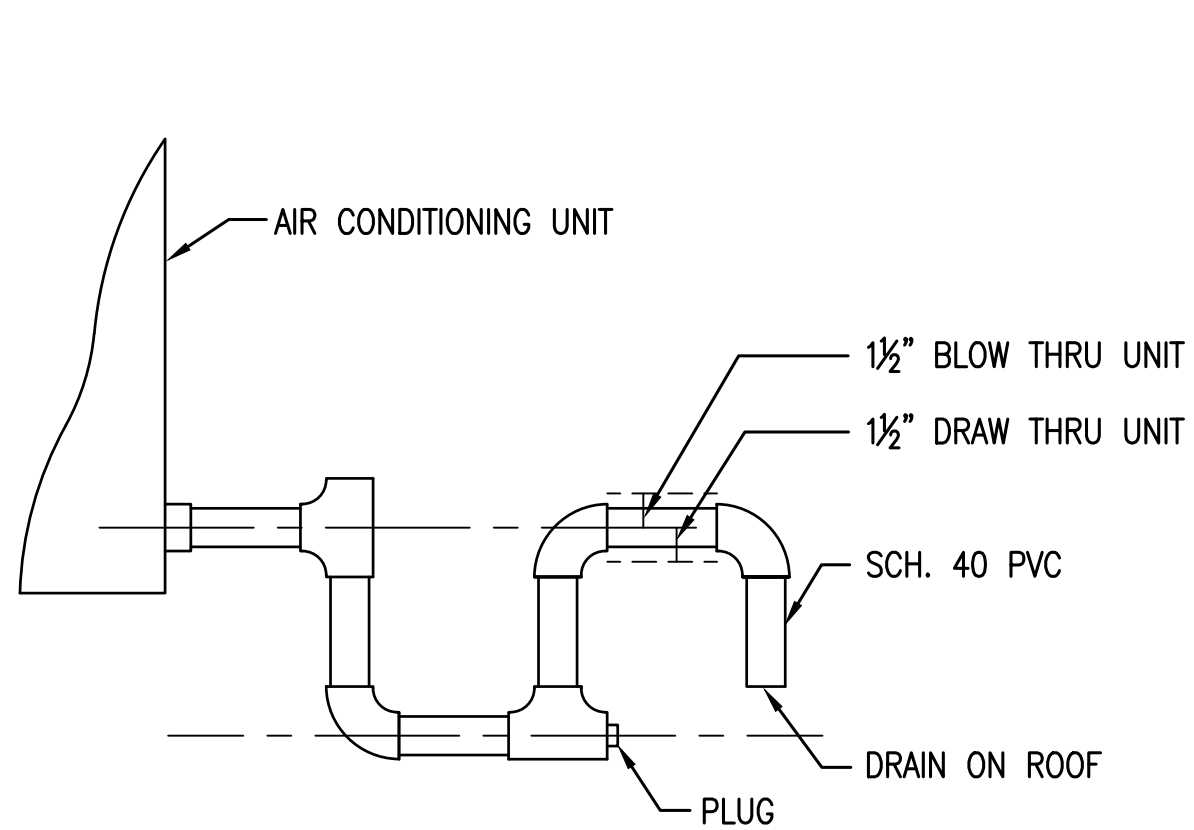
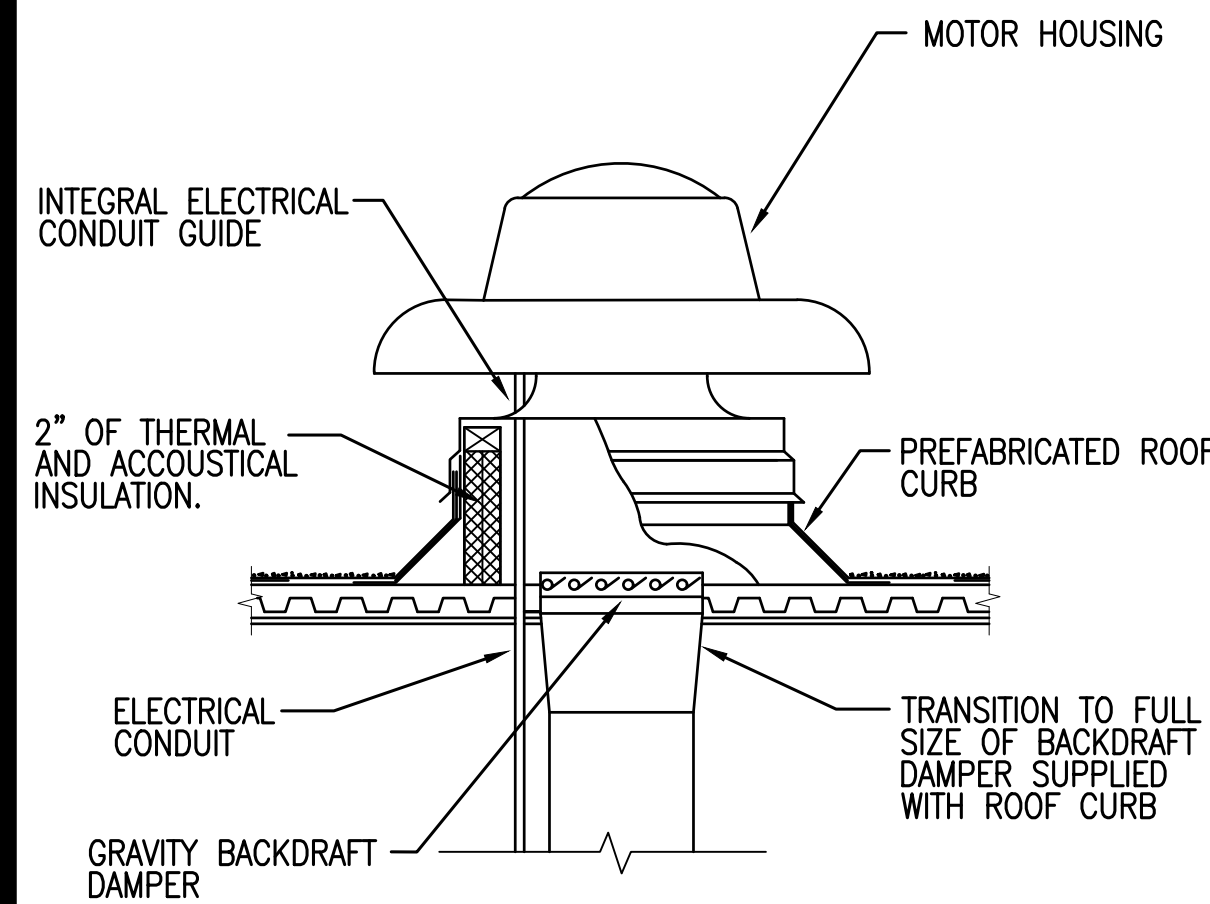
E6.2

DESCRIPTION:
SINGLE LINE ELECTRICAL
DIAGRAM



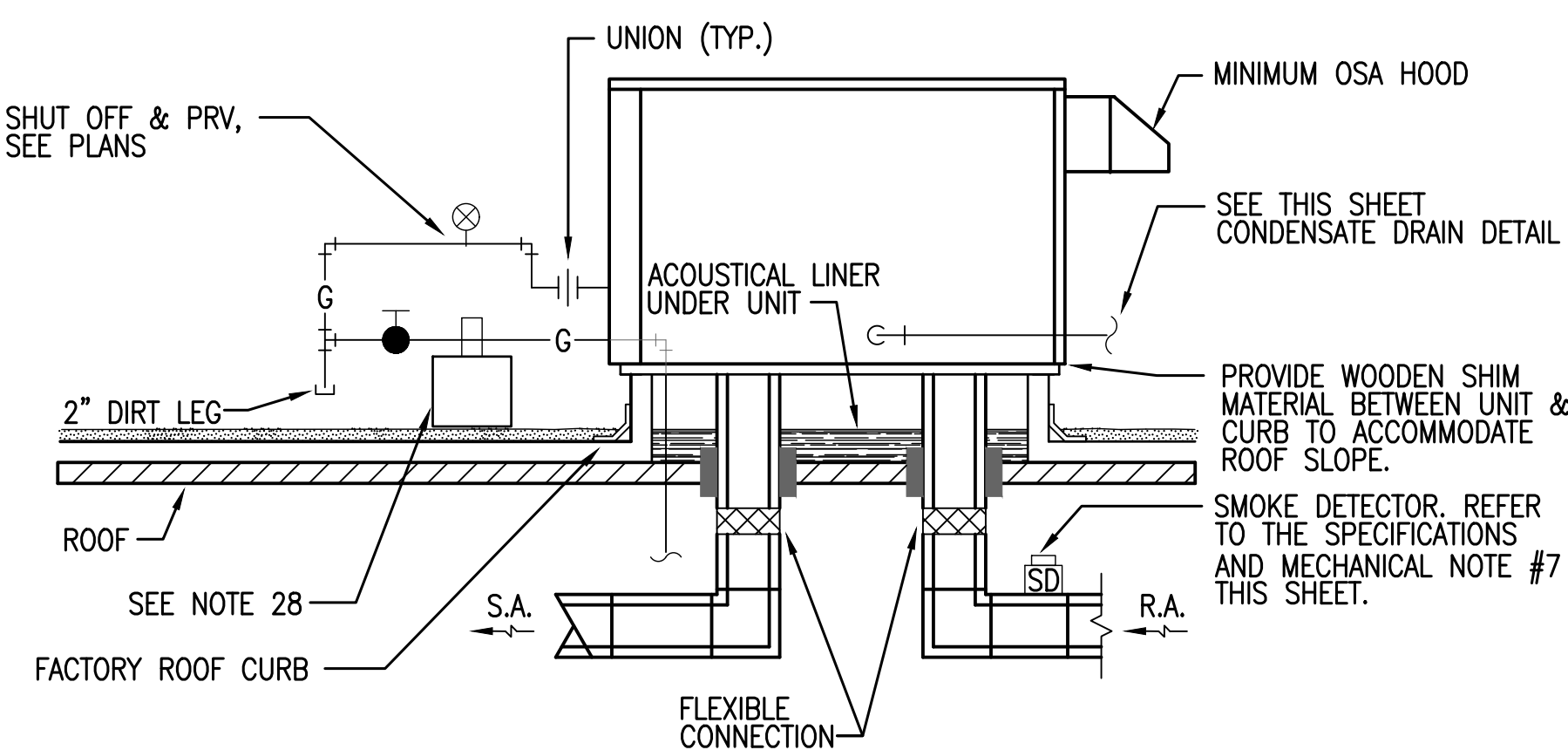
1E SQUARE ELBOW WITH TURNING VANES
N.T.S.

2E BRANCH DUCT DETAIL
N.T.S.



1D EXHAUST FAN CURB
N.T.S.

2D CONDENSATE TRAP
N.T.S.



1C ROOF TOP UNIT DETAIL
N.T.S.

GENERAL HVAC NOTES

- EVERYTHING NECESSARY FOR A COMPLETE, SAFE AND SATISFACTORY INSTALLATION, INCLUDING ALL NECESSARY PARTS, DEVICES, ACCESSORIES, ETC., REQUIRED, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE.
- THE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF DUCTS, AND SUGGEST PROPER ROUTES TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS AND PRESERVE CLEARANCES. HOWEVER, IT IS NOT INTENDED THAT DRAWINGS INDICATE ALL NECESSARY OFFSETS; AND IT SHALL BE THE WORK OF THE CONTRACTOR TO INSTALL DUCTS IN SUCH A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER INSTRUCTION OR COST TO THE OWNER.
- IT IS INTENDED THAT ALL APPARATUS BE LOCATED SYMMETRICAL WITH ARCHITECTURAL ELEMENTS.
- THE CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS FURNISHED AND INSTALLED UNDER THE CONTRACT. HE SHALL EXERCISE DUE AND PARTICULAR CAUTION TO DETERMINE THAT ALL PARTS OF HIS WORK ARE MADE QUICKLY AND EASILY ACCESSIBLE.
- THE CONTRACTOR SHALL BE GUIDED BY THE CONDITIONS EXISTING AT THE JOB, CORRELATING THIS WORK WITH THAT OF THE OTHER TRADES, AND REPORT TO THE DESIGNER ANY DISCREPANCIES OR INTERFERENCES THAT ARE DISCOVERED. FAILURE TO REPORT SUCH DISCREPANCIES AND INTERFERENCES SHALL RESULT IN THE CORRECTING OF THESE ERRORS AND OMISSIONS AT HIS OWN EXPENSE. ALL WORK INSTALLED UNDER THIS DIVISION WHICH DEVIATES FROM THE DRAWINGS AND SPECIFICATIONS WITHOUT PRIOR APPROVAL OF THE DESIGNER SHALL BE ALTERED BY THE CONTRACTOR AT HIS OWN EXPENSE TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS AS DIRECTED BY THE DESIGNER.
- ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK. THE CONTRACTOR SHALL INCLUDE IN HIS QUOTATION ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, AND OTHER SIMILAR COSTS IN CONNECTION THEREWITH. IF, TO THE KNOWLEDGE OF THE CONTRACTOR, THE DRAWINGS OR SPECIFICATIONS ARE AT VARIANCE WITH THE ABOVE MENTIONED LAWS, RULES AND REGULATIONS, HE SHALL PROMPTLY NOTIFY THE DESIGNER IN WRITING SO THAT ANY NECESSARY CHANGES CAN BE PROVIDED FOR IN HIS CONTRACT. IF THE CONTRACTOR PERFORMS ANY WORK WITHOUT NOTICE AS REQUIRED ABOVE, HE SHALL BEAR ALL COSTS ARISING THEREFROM.
- IN AIR SYSTEMS 2,000 CFM THAT SERVE MULTIPLE ENCLOSED SPACES, SMOKE DETECTORS SHALL BE LOCATED IN THE RETURN AIR SYSTEM AHEAD OF THE AIR FILTERS AND DOWNSTREAM OF ANY BRANCH CONNECTIONS WHICH DEVIATES FROM FRESH AIR IN TAKE. SMOKE DETECTORS SHOULD AUTOMATICALLY SHUTDOWN THE RTU WHEN SMOKE IS DETECTED IN THE DUCT.
- PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES, WORKING CONDITIONS TO BE ENCOUNTERED, ETC.
- ALL WORK AND EQUIPMENT SHALL BE WARRANTIED FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER REGARDLESS OF THE DATE OF SHIPMENT.
- THE DESIGNER RESERVES THE RIGHT TO REJECT ANY MATERIALS AND WORKMANSHIP NOT IN ACCORDANCE WITH THE SPECIFICATIONS OR MEETING THE DESIGNER'S APPROVAL, EITHER BEFORE OR AFTER INSTALLATION.
- MATERIALS AND/OR EQUIPMENT SPECIFIED HEREIN ARE USED AS A STANDARD. OTHER MATERIALS AND/OR EQUIPMENT MAY BE SUBSTITUTED PROVIDED THEY MEET OR EXCEED QUALITY, CAPACITIES AND SPACE REQUIREMENTS.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS. ALL DUCTWORK DIMENSIONS ARE ACTUAL SHEET METAL DIMENSIONS. ALL DUCTWORK ENCLOSED BY CEILING/WALL SHALL BE INSULATED.
- DUCT INSULATION INSIDE BUILDING SHALL BE R-6 FOIL BACKED FIBERGLASS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED FOR THIS WORK.
- PROVIDE CONDENSATE DRAINS FOR ALL EQUIPMENT REQUIRING THEM. ALL CONDENSATE DRAINAGE PIPING SHALL BE SCHEDULE 40 PVC WITH SOCKET JOINTS USING SOLVENT CEMENT. PIPING SHALL RUN FULL SIZE OF THE CONNECTION AND SHALL HAVE AN ADEQUATE AIR SEAL TRAP AT EACH UNIT CONNECTION WITH A VENT UPSTREAM OF THE TRAP.
- ALL RTUS TO BE CONTROLLED BY AN OWNER PROVIDED ENERGY MANAGEMENT SYSTEM.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE. 2-INCHES AND SMALLER FITTINGS SHALL BE MALLEABLE IRON THREADED. 2-1/2-INCHES AND LARGER FITTINGS SHALL BE WROUGHT-STEEL BUTTWELDING. PROVIDE DIRT LEG & CUTOFF VALVE AT CONNECTION TO UNIT.
- CONTRACTOR SHALL PROVIDE ELECTRONIC SUBMITTALS OF ALL EQUIPMENT/MATERIALS TO OWNER'S PROJECT MANAGER.
- CONTRACTOR SHALL PROVIDE TRANE START-UP BY A TRANE-AUTHORIZED AGENCY/TECHNICIAN. START-UP AGENCY SHALL COMPLETE A TRANE TEST/CHECKLIST FORM, PROVIDED BY OWNER.
- CONTRACTOR SHALL INSTALL THE EM WIRE FOR THE RTU. OWNER WILL TERMINATE THE WIRE & PROGRAM EMS.
- CONTRACTOR SHALL PERFORM WORK ON THE ROOF AT ANYTIME. WORK INSIDE THE BACKROOM SHALL BE PERFORMED BETWEEN THE HOURS OF 9PM AND 10AM, ANY DAY OF THE WEEK. CONTRACTOR SHALL KEEP BACK ROOM AREAS CLEAN AT ALL TIMES.
- OWNER WILL REMOVE THE REFRIGERANT FROM HEAT RECOVERY COIL/PIPE AND CUT PIPING FREE FOR CONTRACTOR TO DEMOLISH THE UNIT. OWNER WILL PROVIDE HEAT RECOVERY PIPING AND REFRIGERANT CHARGE AFTER CONTRACTOR HAS COMPLETED THE WORK.
- CLEAN/PAINT: ALL EXISTING EXTERIOR GAS PIPE TO REMAIN, & ALL EXTERIOR GAS PIPE INSTALLED IN THIS WORK.
- PROVIDE MOLDED PLASTIC WRAP-AROUND LABELS ON GAS PIPE INSTALLED IN THIS WORK. INDICATE GAS PRESSURE ON LABEL.
- ALL ROOF EQUIPMENT INSTALLED IN THIS PROJECT, THAT WILL REQUIRE MAINTENANCE, SHALL BE NO LESS THAN 10' AWAY FROM THE ROOF'S EDGE.

NOTES TO GENERAL CONTRACTOR REGARDING OWNER SUPPLIED, CONTRACTOR INSTALLED EQUIPMENT:

- CONTRACTOR TO OBTAIN APPROVAL OF ANY DELIVERY DATE CHANGES FROM OWNER PROJECT ENGINEER AND COORDINATE WITH VENDOR.
- CONTRACTOR TO RECEIVE EQUIPMENT, PROVIDE INSPECTION, AND NOTIFY VENDOR & OWNER PROJECT ENGINEER OF MISSING AND/OR DAMAGED MATERIALS WITHIN 48 HOURS AFTER DELIVERY (20 DAYS FOR CONCEALED DAMAGE).
- CONTRACTOR TO PROVIDE SAFE HARBORING, INSTALLATION, AND REMOVAL OF ANY SALVAGE MATERIALS.
- CONTRACTOR TO HANDLE ANY WARRANTY CLAIMS (PRIOR TO STORE OPENING) DIRECTLY WITH VENDOR.

CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BOD	BOTTOM OF DUCT
CFM	CUBIC FEET PER MINUTE
COMP.	COMPRESSOR
CONN.	CONNECTION
CU	CONDENSING UNIT
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EBH	ELECTRIC BASEBOARD HEATER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EH	ELECTRIC HEATER
ENT	ENTERING
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FSD	FIRE SMOKE DAMPER
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
IN	INCH
LAT	LEAVING AIR TEMPERATURE
LVG	LEAVING
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MIN	MINIMUM
MOT	MOTORIZED
MSS	MINI SPLIT SYSTEM
NC	NOISE CRITERION
NO.	NUMBER
NOM	NOMINAL
OPER	OPERATING
OSA	OUTSIDE AIR
ΔP	PRESSURE DIFFERENTIAL
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
RA(R)	RETURN AIR (REGISTER)
REQ'D	REQUIRED
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SAD	SUPPLY AIR DIFFUSER
SA(R)	SUPPLY AIR (REGISTER)
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TOD	TOP OF DUCT
T'STAT	THERMOSTAT
(TYP)	TYPICAL
VEL	VELOCITY
VOL	VOLUME
WB	WET BULB
VAV	VARIABLE AIR VOLUME

LEGEND

	SUPPLY AIR DIFFUSER
	RETURN/EXHAUST AIR REGISTER
	BALANCING DAMPER IN DUCT
	SUPPLY DUCT TURNING DOWN
	RETURN/EXHAUST TURNING DOWN
	SUPPLY DUCT TURNING UP
	RETURN/EXHAUST TURNING UP
	THERMOSTAT TO EQUIPMENT NUMBER
	TEMPERATURE SENSOR
	RELATIVE HUMIDITY SENSOR
	CONNECT TO EXISTING
	AIR FLOW DIRECTION
	GAS PIPE IN PROJECT
	GAS PRESSURE REGULATOR
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	WORK IN PROJECT
	STANDARD BRANCH CONNECTION WITH AIR VOLUME DAMPER
	90° ELBOW WITH TURNING VANES
	EXISTING EQUIPMENT ON ROOF
	PADDLE FAN
	FIRE DAMPER IN DUCT

REVISIONS:

PROJECT #: 26457.00
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DESIGNER: PFI
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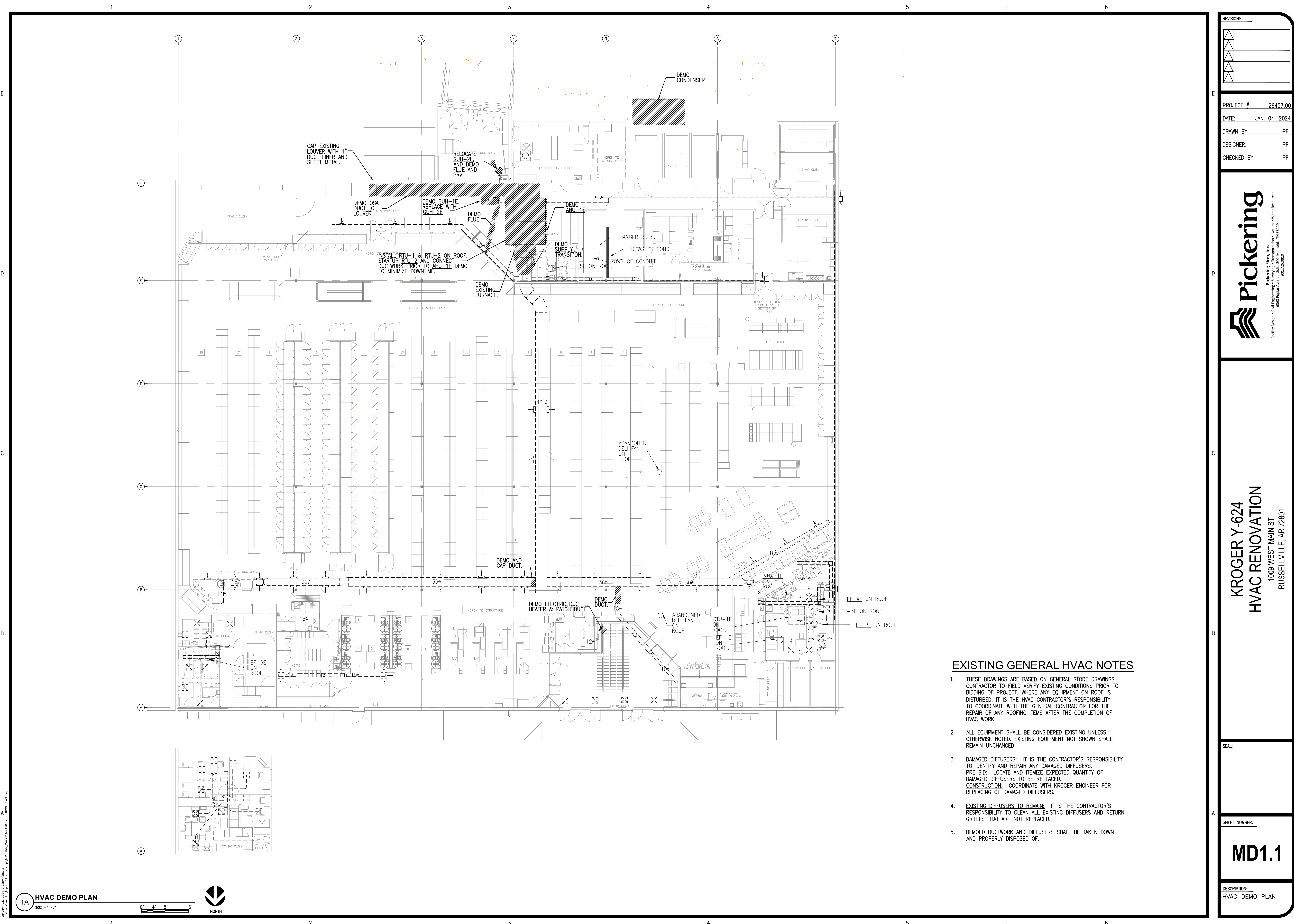
**KROGER Y-624
HVAC RENOVATION**
1009 WEST MAIN ST
RUSSELLVILLE, AR 72801

SEAL:

SHEET NUMBER:

M0.1

DESCRIPTION:
MECHANICAL SYMBOLS
AND GENERAL NOTES



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 DESIGNER: PFI
 CHECKED BY: PFI



**KROGER Y-624
 HVAC RENOVATION**
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 RUSSELLVILLE, AR 72801

EXISTING GENERAL HVAC NOTES


1. THESE DRAWINGS ARE BASED ON GENERAL STORE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING OF PROJECT. WHERE ANY EQUIPMENT ON ROOF IS DISTURBED, IT IS THE HVAC CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR FOR THE REPAIR OF ANY ROOFING ITEMS AFTER THE COMPLETION OF HVAC WORK.
2. ALL EQUIPMENT SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. EXISTING EQUIPMENT NOT SHOWN SHALL REMAIN UNCHANGED.
3. **DAMAGED DIFFUSERS:** IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND REPAIR ANY DAMAGED DIFFUSERS. **PRE BID:** LOCATE AND ITEMIZE EXPECTED QUANTITY OF DAMAGED DIFFUSERS TO BE REPLACED. **CONSTRUCTION:** COORDINATE WITH KROGER ENGINEER FOR REPLACING OF DAMAGED DIFFUSERS.
4. **EXISTING DIFFUSERS TO REMAIN:** IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ALL EXISTING DIFFUSERS AND RETURN GRILLES THAT ARE NOT REPLACED.
5. DEMOED DUCTWORK AND DIFFUSERS SHALL BE TAKEN DOWN AND PROPERLY DISPOSED OF.

DEMO KEYNOTES

- PATCH ROOF PER DETAIL 5E/S-502

REVISIONS:

PROJECT #: 26457.00
 DATE: JAN. 04, 2024
 DRAWN BY: PFI
 DESIGNER: PFI
 CHECKED BY: PFI



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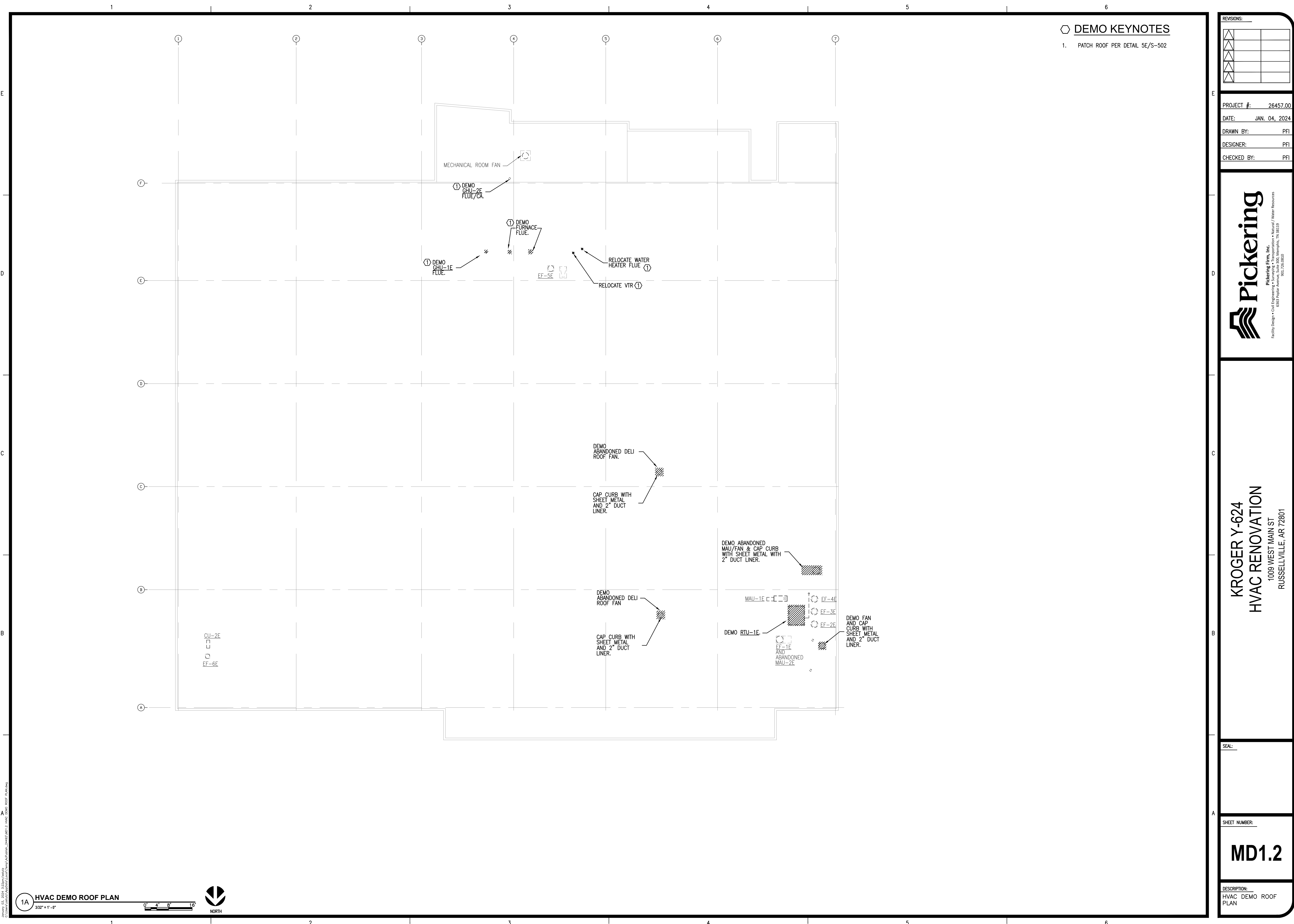
**KROGER Y-624
 HVAC RENOVATION**
 1009 WEST MAIN ST
 RUSSELLVILLE, AR 72801

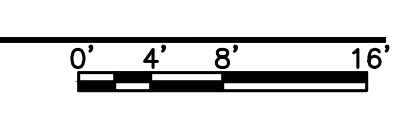
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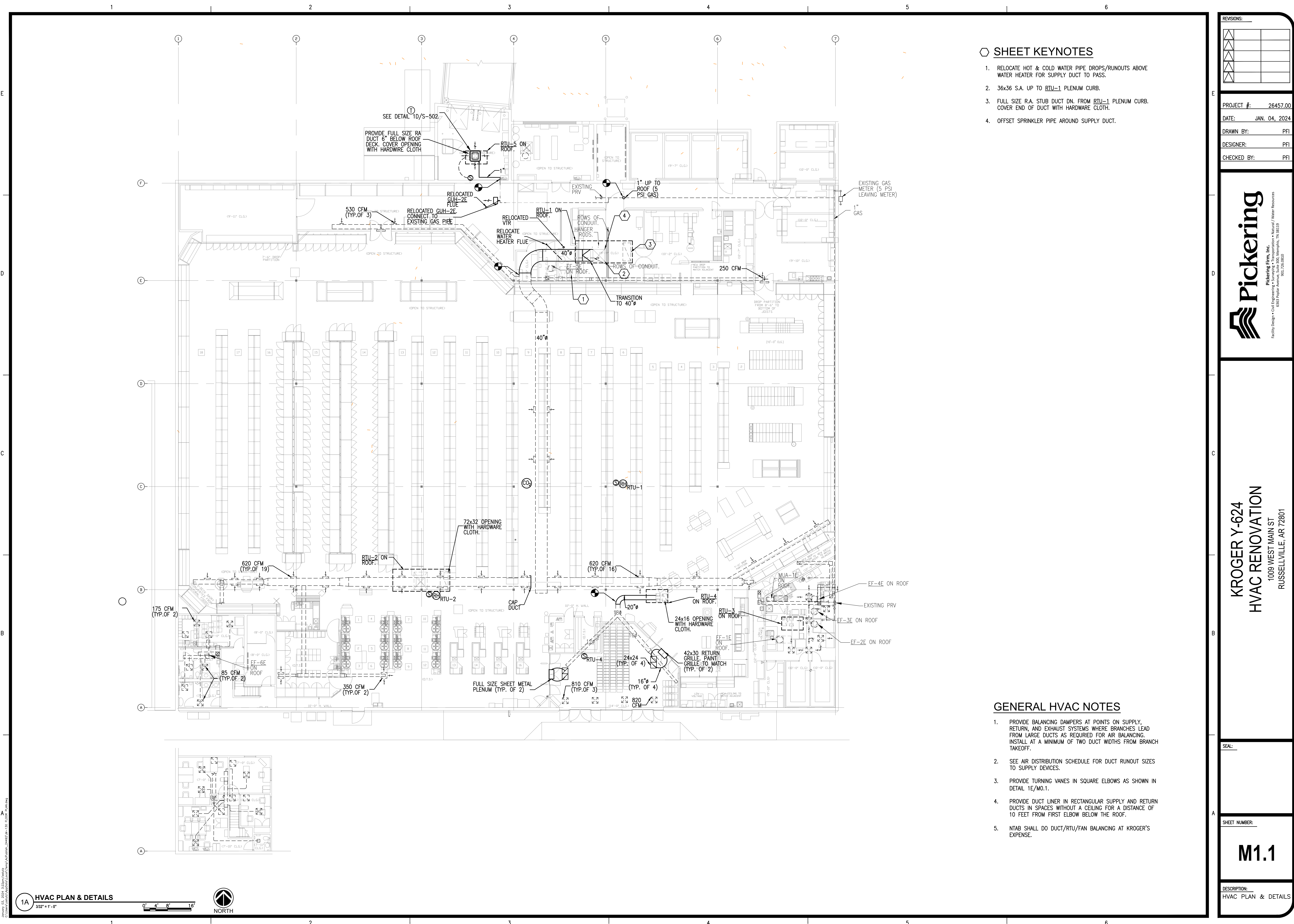
MD1.2

DESCRIPTION:
 HVAC DEMO ROOF PLAN



1A HVAC DEMO ROOF PLAN
 3/32" = 1' - 0"

 NORTH

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○ SHEET KEYNOTES

1. RELOCATE HOT & COLD WATER PIPE DROPS/RUNOUTS ABOVE WATER HEATER FOR SUPPLY DUCT TO PASS.
2. 36x36 S.A. UP TO RTU-1 PLENUM CURB.
3. FULL SIZE R.A. STUB DUCT DN. FROM RTU-1 PLENUM CURB. COVER END OF DUCT WITH HARDWARE CLOTH.
4. OFFSET SPRINKLER PIPE AROUND SUPPLY DUCT.

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**KROGER Y-624
 HVAC RENOVATION**
 1009 WEST MAIN ST
 RUSSELLVILLE, AR 72801

GENERAL HVAC NOTES

1. PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGE DUCTS AS REQUIRED FOR AIR BALANCING. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
2. SEE AIR DISTRIBUTION SCHEDULE FOR DUCT RUNOUT SIZES TO SUPPLY DEVICES.
3. PROVIDE TURNING VANES IN SQUARE ELBOWS AS SHOWN IN DETAIL 1E/MO.1.
4. PROVIDE DUCT LINER IN RECTANGULAR SUPPLY AND RETURN DUCTS IN SPACES WITHOUT A CEILING FOR A DISTANCE OF 10 FEET FROM FIRST ELBOW BELOW THE ROOF.
5. NTAB SHALL DO DUCT/RTU/FAN BALANCING AT KROGER'S EXPENSE.

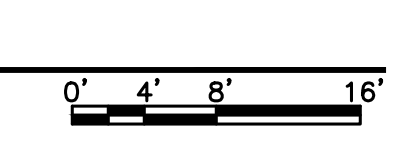
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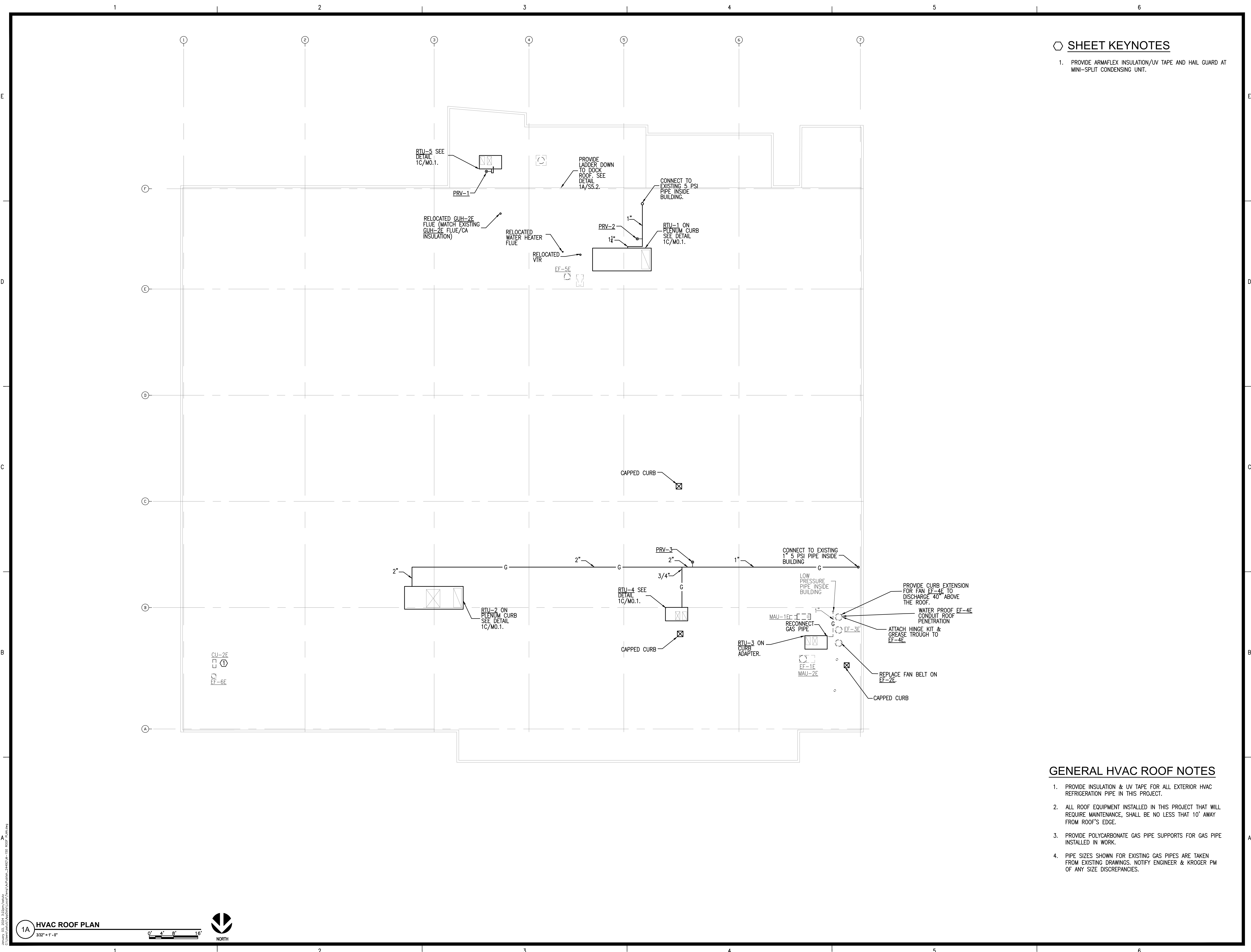
M1.1

DESCRIPTION:
 HVAC PLAN & DETAILS

1A HVAC PLAN & DETAILS
 3/32" = 1'-0"



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SHEET KEYNOTES

1. PROVIDE ARMAFLEX INSULATION/UV TAPE AND HAIL GUARD AT MINI-SPLIT CONDENSING UNIT.

REVISIONS:

PROJECT #: 26457.00
 DATE: JAN. 04, 2024
 DRAWN BY: PFI
 DESIGNER: PFI
 CHECKED BY: PFI



**KROGER Y-624
 HVAC RENOVATION**
 1009 WEST MAIN ST
 RUSSELLVILLE, AR 72801

GENERAL HVAC ROOF NOTES

1. PROVIDE INSULATION & UV TAPE FOR ALL EXTERIOR HVAC REFRIGERATION PIPE IN THIS PROJECT.
2. ALL ROOF EQUIPMENT INSTALLED IN THIS PROJECT THAT WILL REQUIRE MAINTENANCE, SHALL BE NO LESS THAT 10' AWAY FROM ROOF'S EDGE.
3. PROVIDE POLYCARBONATE GAS PIPE SUPPORTS FOR GAS PIPE INSTALLED IN WORK.
4. PIPE SIZES SHOWN FOR EXISTING GAS PIPES ARE TAKEN FROM EXISTING DRAWINGS. NOTIFY ENGINEER & KROGER PM OF ANY SIZE DISCREPANCIES.

SEAL:

SHEET NUMBER:

M1.2

DESCRIPTION:
 HVAC ROOF PLAN

ROOFTOP UNIT SCHEDULE																			
MARK	SA (CFM)	OSA (CFM)	TSP (in. w.g.)	COOLING				HEATING		ELECTRICAL DATA				BASIS OF DESIGN (TRANE)	ROOF CURB PART # (AES INDUSTRIES)	APPROX. WEIGHT W/ CURB (lb)	TONNAGE (NOMINAL)	LOCATION	NOTES
				EAT (°F db)	EAT (°F wb)	TOT. CAP. (MBH)	SEN. CAP. (MBH)	INPUT (MBH)	EVAP. (hp)	MCA	MOCP	VOLTAGE							
RTU-1	13,000	2,600	2.53	77.6	64.5	450	345	800	15	193	225	208V/3φ	YCD480	PLENUM CURB 060-99106	6,650	40	REAR MAIN SALES FLOOR	① ② ③ ④ ⑤ ⑦ ⑧ ⑩ ⑫ ⑬ ⑭	
RTU-2	13,000	2,400	2.53	77.6	64.5	450	345	800	15	193	225	208V/3φ	YCD480	PLENUM CURB 060-99106	6,650	40	FRONT MAIN SALES FLOOR	① ② ③ ④ ⑤ ⑦ ⑧ ⑩ ⑫ ⑬ ⑭	
RTU-3	2,625	0	0.78	73	61	79.9	64.2	120	3.1	42	50	208V/3φ	YSJ090	ADAPTER CURB 060-99106	1,150	7.5	DELI / BAKERY	① ② ③ ④ ⑦ ⑧ ⑩ ⑫ ⑬	
RTU-4	3,250	650	0.72	78.0	64.8	114	85.8	200	3.1	54	70	208V/3φ	YSJ120	STANDARD CURB	1,300	10	CART CORRAL	① ② ③ ④ ⑦ ⑧ ⑩ ⑫ ⑬	
RTU-5	2,625	525	0.65	81.2	64.8	86.4	74.1	200	3.1	42	50	208V/3φ	YSJ090	STANDARD CURB	1,250	7.5	DOCK	① ② ③ ④ ⑦ ⑧ ⑩ ⑫ ⑬	

NOTES (NOT ALL NOTES ARE USED):

- OWNER MAINTAINS A NATIONAL ACCOUNT WITH TRANE. ROOFTOP UNITS WILL BE OWNER PROVIDED. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT AND COMPLETE INSTALLATION OF ROOFTOP UNITS.
- CURBS, CURB ADAPTERS, DUCT CURBS, PLENUM CURBS, AND SERVICE PLATFORMS ARE CONTRACTOR PROVIDED FROM AES INDUSTRIES. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT AND COMPLETE INSTALLATION OF ROOFTOP UNIT CURBS. CONTACT PAUL LEDBETTER AT 334-283-3468.
- UNIT SHALL HAVE SENSORS / THERMOSTATS AS SPECIFIED FOR THE OWNER PROVIDED ENERGY MANAGEMENT SYSTEM.
- PROVIDE ALL ELECTRICAL CONNECTIONS UP THRU RTU CURB.

- PROVIDE MODULATING HOT GAS REHEAT
- PROVIDED WITH HEAT RECLAIM COIL.
- PROVIDE WITH A WATER-LEVEL MONITORING DEVICE INSIDE THE PRIMARY DRAIN PAN WHICH SHALL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THE PRIMARY DRAIN PAN BECOMES RESTRICTED.
- PROVIDE REFERENCE ENTHALPHY ECONOMIZER WITH BAROMETRIC RELIEF.
- PROVIDE COMPARATIVE ENTHALPHY ECONOMIZER WITH BAROMETRIC RELIEF.
- PROVIDE CURB ADAPTER
- PROVIDE WITH BACNET CONTROLS AND CONNECT TO EXISTING BUILDING CONTROLLER.
- 24" TALL PLENUM CURB
- ROOFTOP UNITS TO HAVE NON-FUSED DISCONNECT AND FACTORY WIRED CONVENIENCE OUTLET.
- PROVIDE 65 KAIC SCCR.
- OSA MODULATED BY CO2 WHEN HOOD IS OFF. SEE AIR BALANCE SCHEDULE.

AIR DISTRIBUTION SCHEDULE							
MARK	TYPE	SIZE (INCHES)		FINISH	O.B.D.	BASIS OF DESIGN (TITUS)	NOTES
		NECK	FACE				
A	SUPPLY	6"	24x24	WHITE	---	TDC-A4	① ⑨ ⑩
B	SUPPLY	8"	24x24	WHITE	---	TDC-A4	① ⑨ ⑩
C	SUPPLY	10"	24x24	WHITE	---	TDC-A4	① ⑨ ⑩
D	SUPPLY	12"	24x24	WHITE	---	TDC-A4	① ⑨ ⑩
E	SUPPLY	6"	12x12	WHITE	---	TDC-A4	① ⑨ ⑩
F	SUPPLY	8"	12x12	WHITE	---	TDC-A4	① ⑨ ⑩
G	SUPPLY	10"	24x24	WHITE	NO	TDC-A3	① ⑩
H	SUPPLY	8"	24x24	WHITE	NO	TDC-G2	① ⑩
I	SUPPLY	10"	24x24	WHITE	NO	TDC-G2	① ⑩
J	SUPPLY	12"	24x24	WHITE	NO	TDC-S2	① ⑩
K	SUPPLY	14"	24x24	WHITE	NO	TDC-S2	① ⑩
L	SUPPLY	10"	24x24	WHITE	NO	TDC-S2	① ⑩
M	SUPPLY	20"	45.5"	WHITE	NO	TMRA	① ②
N	SUPPLY	24"	54.5"	WHITE	NO	TMRA	① ②
O	SUPPLY	30"	67.5"	WHITE	NO	TMRA	① ②
P	SUPPLY	36"	67.5"	WHITE	NO	TMRA	① ②
Q	SUPPLY	---	---	WHITE	YES	ADB-1-20-3 (AES INDUSTRIES)	① ③
R	SUPPLY	---	---	WHITE	---	ADB-6-20 (AES INDUSTRIES)	① ④
S	SUPPLY	---	---	WHITE	YES	ADB-1-20-2 (B) (AES INDUSTRIES)	① ⑤
T	SUPPLY	---	---	WHITE	---	ADB-1-07-4 (AES INDUSTRIES)	① ⑥
U	SUPPLY	SEE DWGS.	24x24	WHITE	NO	TF-HC (ACUTHERM)	①
V	SUPPLY	SEE DWGS.	SEE DWGS.	WHITE	YES	300-RS	① ②
W	RETURN / TRANSFER EXHAUST	SEE DWGS.	SEE DWGS.	WHITE	---	350-RL	① ⑦ ⑧ ⑨ ⑩
X	SUPPLY	12"	24x24	WHITE	NO	TDC-G2	①
Y	RETURN / TRANSFER EXHAUST	SEE DWGS.	SEE DWGS.	WHITE	---	355-RL	① ⑦ ⑧ ⑨ ⑩
Z	RETURN / TRANSFER EXHAUST	SEE DWGS.	SEE DWGS.	WHITE	---	50F	① ⑦ ⑧ ⑨ ⑩

ALL AIR DISTRIBUTION DEVICES SHALL BE CONTRACTOR PROVIDED. SOME AIR DISTRIBUTION DEVICES MAY NOT BE USED. VERIFY USAGE WITH FLOOR PLAN. NOTES (NOT ALL NOTES ARE USED):

- DIFFUSER MOUNTING STYLE SHALL BE CONFIRMED WITH SHEET A1.3, REFLECTED CEILING PLAN.
- DISCHARGE PATTERN SHALL BE ADJUSTABLE.
- 3 WAY DISCHARGE, UP TO 8,000 CFM, DROP BOX DIFFUSER, PART #: 42441. BOTTOM FACE DIMENSION 58x58. CONTRACTOR TO VERIFY FIRE SPRINKLER REQUIREMENT. CONTACT PAUL LEDBETTER AT 334-283-3449.
- 6 WAY DISCHARGE, UP TO 6,000 CFM, DROP BOX DIFFUSER, PART #: 42446. BOTTOM FACE DIMENSION 56x56. CONTRACTOR TO VERIFY FIRE SPRINKLER REQUIREMENT. CONTACT PAUL LEDBETTER AT 334-283-3449.
- 2 WAY DISCHARGE, UP TO 8,000 CFM, DROP BOX DIFFUSER, PART #: 42443. BOTTOM FACE DIMENSION 59x59. CONTRACTOR TO VERIFY FIRE SPRINKLER REQUIREMENT. CONTACT PAUL LEDBETTER AT 334-283-3449.
- 4 WAY DISCHARGE, UP TO 3,000 CFM, DROP BOX DIFFUSER, PART #: 42420. BOTTOM FACE DIMENSION 28x28. CONTRACTOR TO VERIFY FIRE SPRINKLER REQUIREMENT. CONTACT PAUL LEDBETTER AT 334-283-3449.
- OMIT SCREW HOLES IN LAY-IN CEILINGS.
- PROVIDE 6" HIGH SQUARE-TO-ROUND TRANSITION.
- PROVIDE O.B.D.s IN NECK OF GRILLES IN SHEETROCK CEILINGS.
- PROVIDE FULL-FACE VANES IN FACE OF DIFFUSER.

GAS LOAD SCHEDULE	
EXISTING EQUIPMENT	INPUT IN MBH
WATER HEATER	75
DOUBLE RACK OVEN	180
DOUBLE RACK OVEN	180
GENERATOR (EST.)	300
UNIT HEATER	125
ADDITIONAL EQUIPMENT INPUT IN MBH	
RTU-1	800
RTU-2	800
RTU-3	120
RTU-4	200
RTU-5	200
TOTAL MBH	2980

EXISTING MAKE-UP AIR UNIT SCHEDULE

CODE	MFR. AND MODEL NO.	CFM	MBH INPUT	HP	VOLTAGE	WEIGHT	REMARKS
MAU-1E	CAPTIVEAIRE D76	840	53	1.0	115V/1φ	---	EXISTING TO REMAIN
MAU-2E	---	---	---	---	---	---	DEMO

GAS-FIRED UNIT HEATER SCHEDULE

MARK	CFM	INPUT (MBH)	OUTPUT (MBH)	MOTOR DATA			BASIS OF DESIGN	LOCATION	NOTES
				HP	VOLTAGE	FLA			
GUH-1E	---	125	---	---	---	---	REZNR F	BACKROOM	DEMO
GUH-2E	2,256	131	121	1/4	115V/1φ	6.3	REZNR UEAS	DOCK	RELOCATED

- UNIT HEATERS ARE CONTRACTOR PROVIDED FROM REZNR ONLY. NO SUBSTITUTIONS
- DE-RATED FOR ALTITUDE OF 6,000 FT.
- PROVIDE VENT TERMINATION KIT. SEE HSD-14 OR 15.

FAN COIL AND CONDENSING UNIT SCHEDULE

INDOOR UNIT											OUTDOOR UNIT													
MARK	CFM (HIGH)	MIN O/A	EXT S.P.	COOLING			HEATING			ELECTRICAL DATA			BASIS OF DESIGN (MITSUBISHI)	LOCATION	MARK	COOLING CAP. 95°F AMB. (MBH)	HEATING CAP. 17°F AMB. (MBH)	ELECTRICAL DATA			BASIS OF DESIGN (MITSUBISHI)	SPLIT SYSTEM EPRO	ROOF CURB PART #	NOTES
				TOTAL (MBH)	E.A.T. D.B. W.B.	TOTAL (MBH)	E.A.T. D.B. W.B.	MCA	MOCP	VOLTAGE	MCA	MOCP						VOLTAGE						
FCU-2E	---	-0-	---	30.7	80	67	---	---	---	1.0	---	208V/1φ	---	ECR ROOM	CU-2E	30.7	---	21	25	208V/1φ	MUY-D30NA	---	---	EXISTING TO REMAIN

KITCHEN HOOD SCHEDULE

MARK	SIZE (WxLxH)	EXHAUST		SUPPLY		GAS SHUT OFF VALVE SIZE	BASIS OF DESIGN (CAPTIVE-AIRE)	EPRO	LOCATION	NOTES
		CFM	P.D. (IN. W.G.)	CFM	P.D. (IN. W.G.)					
GH-2E	48x96x24	2,462	---	---	---	---	---	---	DELI	EXISTING TO REMAIN
GH-3E	60x72x24	1,050	---	840	---	---	6024 ND (CAPTIVEAIRE)	K-0048399	DELI	EXISTING TO REMAIN

EXISTING AIR HANDLER/ROOFTOP UNIT SCHEDULE

MARK	MFR. AND MODEL NO.	AREA SERVED	BLOWER			ELECTRICAL DATA		HEATING (MBH)		COOLING (MBH)		UNIT WEIGHT	OUTSIDE AIR	NOTES
			CFM	ESP	HP	VOLTAGE	MCA	MOCP	IN	OUT	TOTAL			
AHU-1E / CU-1E	---	MAIN SALES FLOOR	32,000	---	---	208V/60/3	---	125/400	---	---	---	---	---	DEMO
RTU-1E	RHEEM	DELI / BAKERY	---	---	---	---	---	---	---	---	---	---	---	DEMO

NOTE: BALANCE UNITS TO AIRFLOWS SHOWN IN THIS SCHEDULE

EXISTING FAN SCHEDULE

MARK	MFR. AND MODEL NO.	AREA SERVED	FAN TYPE	ACFM	ESP	RPM	HP/ WATTS	ELECTRICAL DATA	NOTES
EF-1E	FANTECH 58DU18	DELI HOOD GH-2E	ROOF UPBLAST	2,462	---	1725	0.75	115V/1φ	EXISTING TO REMAIN
EF-2E	CAPTIVEAIRE NCA14HPFA	RIGHT BAKERY OVEN	ROOF UPBLAST	600	---	1735	0.33	115V/1φ	EXISTING TO REMAIN
EF-3E	CAPTIVEAIRE NCA14HPFA	LEFT BAKERY OVEN	ROOF UPBLAST	600	---	1735	0.33	115V/1φ	EXISTING TO REMAIN
EF-4E	CAPTIVEAIRE DU50HFA	DELI HOOD GH-3E	ROOF UPBLAST	1,050	---	1625	0.5	115V/1φ	EXISTING TO REMAIN
EF-5E	---	EMPLOYEE RR / CLEANING	ROOF UPBLAST	180	---	---	35W	120V/1φ	EXISTING TO REMAIN
EF-6E	---	CUSTOMER RESTROOM	ROOF UPBLAST	500	---	---	194 W	120V/1φ	EXISTING TO REMAIN

GAS PRESSURE REGULATOR SCHEDULE

MARK	GAS CFH	INLET PRESSURE (PSI)		OUTLET PRESSURE (in.)	DOWNSTREAM PIPE SIZE
		MAX.	MIN.		
PRV-1	200	5.0	1.5	10	3/4"
PRV-2	800	5.0	1.5	10	1-1/4"
PRV-3	1000	5.0	1.5	10	2"

NOTES:

- PROVIDE DIRT LEG AND SHUT-OFF VALVE UPSTREAM OF GAS REGULATOR UNLESS NOTED OTHERWISE.
- VENT PRV THRU ROOF AS NECESSARY

AIR BALANCE SCHEDULE

MARK	DESCRIPTION	S/A CFM	OUTSIDE AIR		EXHAUST AIR	
			DESIGN	HOODS OFF, ON	HOODS ON	HOODS OFF
EF-1E	DELI HOOD GH-2E	0	0	-2462	0	
EF-2E	RIGHT BAKERY OVEN	0	0	-600	-600	
EF-3E	LEFT BAKERY OVEN	0	0	-600	-600	
EF-4E	DELI HOOD GH-3E	0	0	-1050	0	
EF-5E	EMPLOYEE RR/ CLEANING	0	0	-180	-180	
EF-6E	CUSTOMER RESTROOM	0	0	-500	-500	
MAU-1E	DELI HOOD GH-2E	840	840	0	0	
RTU-1	REAR MAIN SALES FLOOR	13000	2600	2600	0	
*RTU-2	FRONT MAIN SALES FLOOR	13000	2400	0/1900	0	
RTU-3	DELI/BAKERY	2625	0	0	0	
RTU-4	CART CORRAL	3250	650	650	0	
SALES FLOOR TOTALS		32715	6490	3250	-5392	
RTU-5	DOCK	2625	525	525	0	
BUILDING TOTALS		35340	7015	3775	-5392	
SALES FLOOR AREA:		31100	S.F.			
SALES FLOOR SUPPLY AIRFLOW:		1.05	CFM/S.F.			
NET BUILDING PRESSURE:		DESIGN:	1623			
		CO2 SATISFIED, HOODS OFF, IMC MIN:	1895			
IMC MIN OSA REQ'D:		CFM/S.F. =	1866			
		CFM PER 187 PEOPLE =	1400			

* OSA MODULATED BY CO2 SENSOR WHEN HOOD IS OFF

REVISIONS:

PROJECT #: 26457.00

DATE: JAN. 04, 2024

DRAWN BY: ACS

DESIGNER: ACS

CHECKED BY: MRB



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KROGER Y-624
HVAC RENOVATION
1009 WEST MAIN ST
RUSSELLVILLE, AR 72801

SEAL:

SHEET NUMBER:

M6.1

DESCRIPTION:
HVAC SCHEDULES

STRUCTURAL ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	LBS	POUNDS
ADDL	ADDITIONAL	LL	LIVE LOAD
ALT	ALTERNATE	LLH	LONG LEG HORIZONTAL
AB	ANCHOR BOLT(S)	LLV	LONG LEG VERTICAL
APPROX	APPROXIMATELY	LSH	LONG SIDE HORIZONTAL
ARCH	ARCHITECTURAL	LSV	LONG SIDE VERTICAL
		LSL	LONG SLOTTED
BRG	BEARING		
BM	BEAM	MBM	METAL BUILDING MANUFACTURER
BOT	BOTTOM	MECH	MECHANICAL
BLDG	BUILDING	MEP	MECHANICAL, ELECTRICAL, & PLUMBING
CFMF	COLD-FORMED METAL FRAMING	MFR	MANUFACTURER
CTRD	CENTERED	MIN	MINIMUM
CL	CENTERLINE	MISC	MISCELLANEOUS
CLR	CLEAR	MTL	METAL
CMU	CONCRETE MASONRY		
COL	COLUMN	NF	NEAR FACE
CONN	CONNECTION(S)	NS	NEAR SIDE
CJ	CONSTRUCTION JOINT	NTS	NOT TO SCALE
CJP	COMPLETE JOINT PENETRATION		
COL	COLUMN	OC	ON CENTER
CONT	CONTINUOUS	OH	OPPOSITE HAND
COORD	COORDINATE	OPP	OPPOSITE
		OF	OUTSIDE FACE
		OD	OUTSIDE DIAMETER
DE	DECK EDGE		
DL	DEAD LOAD		
DIA	DIAMETER	PERIM	PERIMETER
DIM	DIMENSION	PL	PLATE
DWG(S)	DRAWING(S)	PCF	POUNDS PER CUBIC FOOT
		PCI	POUNDS PER CUBIC INCH
EA	EACH	PLUMB	PLUMBING
EF	EACH FACE	PJP	PARTIAL JOINT PENETRATION
EW	EACH WAY	PSF	POUNDS PER SQUARE FOOT
EH	EAVE HEIGHT	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL		
EL ELEV	ELEVATION (HEIGHT)	REF	REFER, REFER TO
EMBED	EMBEDMENT	REIN	REINFORCING
EQ	EQUAL	REQD	REQUIRED
EX	EXISTING	RMDR	REMAINDER
EXP	EXPANSION	RTU	ROOF TOP UNIT
EJ	EXPANSION JOINT		
		SCHED	SCHEDULE
FS	FAR SIDE	SSL	SHORT SLOTTED
FF	FINISHED FLOOR	SIM	SIMILAR
FTG	FOOTING	SOG	SLAB ON GRADE
		SF	SQUARE FOOT
GA	GAUGE OR GAGE	STD	STANDARD
		STIFF	STIFFENER
HK	HOOK	STRUCT	STRUCTURAL
HORIZ	HORIZONTAL	SYM	SYMMETRICAL
HSA	HEADED STUD ANCHOR	STL	STEEL
HT	HEIGHT		
		TOF	TOP OF FOOTING
IN	INCH	TOF SLAB	TOP OF SLAB
INFO	INFORMATION	TOS	TOP OF STEEL
IF	INSIDE FACE	TO WALL	TOP OF WALL
IMP	INSULATED METAL PANEL	TYP	TYPICAL
		T&B	TOP AND BOTTOM
JST	JOIST	UNO	UNLESS NOTED OTHERWISE
		VERT	VERTICAL
K	KIPS		
KSF	KIPS PER SQUARE FOOT		
KSI	KIPS PER SQUARE INCH	WWF	WELDED WIRE FABRIC
		WF	WIDE FLANGE SHAPE
		WL	WIND LOAD
		WP	WORK POINT

DESIGN LOADS

- CODE**
IBC 2012
- GRAVITY LOADS**
 - ROOF**
 - DEAD LOAD: 15 PSF (ASSUMED)
 - ROOF LIVE LOAD: 20 PSF (REDUCIBLE)
 - SNOW LOAD**
 - GROUND SNOW LOAD (P_g): 10 PSF
 - FLAT-ROOF SNOW LOAD (P): 10 PSF
 - SNOW EXPOSURE FACTOR (C_e): 1.0
 - SNOW LOAD IMPORTANCE FACTOR (I_s): 1.0
 - THERMAL FACTOR (C_t): 1.0
 - WIND LOADS**
 - WIND SPEED (V_w): 115 MPH
 - WIND SPEED (V_{min}): 89.1 MPH
 - WIND RISK CATEGORY: II
 - WIND EXPOSURE: C
 - INTERNAL PRESSURE COEFFICIENT (GC_p): +/- 0.18
 - SEISMIC DESIGN LOADS**
 - S₁: 0.274g
 - S₂: 0.127g
 - S_{0.5}: 0.288g
 - S_{0.1}: 0.194g
 - SEISMIC RISK CATEGORY: II
 - SEISMIC IMPORTANCE FACTOR (I_s): 1.0
 - SITE CLASS: D
 - SEISMIC DESIGN CATEGORY: C
- METHOD OF ANALYSIS**
 - REVIEWED EXISTING DRAWINGS "RUSSELLVILLE IGA" DATED 4/13/1992 TO DETERMINE AS-BUILT JOIST SIZES, SPAN LENGTHS, AND JOIST SPACING.
 - CALCULATED UNIFORM LOAD CAPACITY OF IN-PLACE JOISTS IN ACCORDANCE WITH VULCRAFT'S "STEEL JOIST AND JOIST GIRDER CATALOG".
 - APPLIED AN ASSUMED 15 PSF DL, 20 PSF RLL, AND RTU POINT LOADS TO THE IMPACTED JOISTS TO DETERMINE MAXIMUM SHEARS AT EACH END OF JOIST AND MAXIMUM MOMENT AT CENTER OF JOIST.
 - CALCULATED AN EQUIVALENT UNIFORM LOAD FOR THE MAXIMUM SHEARS AT END OF EACH JOIST AND THE MAXIMUM MOMENT AT CENTER OF EACH JOINT.
 - REINFORCEMENT IS SPECIFIED WHERE THE EQUIVALENT UNIFORM LOAD EXCEEDS THE UNIFORM CAPACITY.

A. GENERAL

- GENERAL**
 - THE COMPONENTS ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THEY ARE FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE STABILITY OF THE COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS WHICH MAY BE NECESSARY.
 - SAFETY**
 - IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
 - MISCELLANEOUS**
 - EQUIPMENT FRAMING LOADS, OPENINGS, AND STRUCTURES IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.

- DISCREPANCIES AND COORDINATION**
 - SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THESE DRAWINGS CONFLICT WITH THE SPECIFICATIONS, OTHER CONTRACT DOCUMENTS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN. REQUEST CLARIFICATION FROM PFI PRIOR TO PROCEEDING WITH THE WORK.

- VERIFY DIMENSIONS AND CONDITIONS AT THE PROJECT SITE.** ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE ASSUMED IN THE STRUCTURAL DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF PFI PRIOR TO PROCEEDING WITH THE WORK.

- STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS.** CONTRACTOR IS RESPONSIBLE FOR COORDINATING STRUCTURAL DOCUMENTS WITH OTHER TRADES AND DISCIPLINES, INCLUDING ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION. SOME REQUIREMENTS ARE NOT KNOWN PRIOR TO DOCUMENT ISSUE AND MAY CHANGE AS LAYOUT AND FABRICATION DRAWINGS ARE DEVELOPED. REPORT DEVIATIONS AND INTERFERENCES WITH STRUCTURAL COMPONENTS TO PFI.

- VERIFY WEIGHTS, LOCATIONS, AND DETAILS OF STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL COMPONENTS.** REPORT DEVIATIONS FROM ASSUMED CONDITIONS TO PFI.

- VERIFY LOCATIONS AND SIZES OF FLOOR AND ROOF PENETRATIONS AND SLEEVES FOR MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS.** SUBMIT REQUIRED OPENINGS IN BEAMS, GIRDERS, COLUMNS, WALLS, AND SLABS TO PFI FOR REVIEW PRIOR TO CONSTRUCTION. NOTIFY PFI WHEN DOCUMENTS BY OTHER DISCIPLINES SHOW OPENINGS, POCKETS, SLEEVES, ETC NOT INDICATED ON THE STRUCTURAL DOCUMENTS, BUT ARE LOCATED IN STRUCTURAL MEMBERS.

- DO NOT SCALE PLANS, DETAILS, AND SECTIONS FOR QUANTITY, LENGTH, OR FIT OF MATERIALS.**

- SECTION & DETAIL REFERENCES**
 - WHEN A SECTION OR A DETAIL IS REFERENCED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS, REGARDLESS OF WHETHER IT IS REFERENCED OR NOT, UNO.

- GENERAL NOTES AND TYPICAL DETAILS APPLY GENERALLY THROUGHOUT THE PROJECT WHEREVER CONDITIONS SIMILAR TO THOSE DEPICTED EXIST AND ARE NOT NECESSARILY REFERENCED SPECIFICALLY IN THE DOCUMENTS.**

- SUBMITTALS**
 - SUBMITTALS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO PFI.

- SUBMITTALS WILL BE REVIEWED BY PFI FOR GENERAL CONFORMANCE WITH THE PRINCIPLES AND CONTRACT DOCUMENTS OF THE PROJECT.** CONTRACTOR IS NOT RELIEVED FROM HIS SOLE RESPONSIBILITY REGARDING CHECKING OF DIMENSIONS, QUANTITIES, COORDINATION OF THE WORK OF TRADES, CORRELATION OF DESIGN DOCUMENTS THAT MAY CONTAIN CONTRADICTIONARY INFORMATION AND FOR INFORMATION THAT PERTAINS TO THE FABRICATION, CONSTRUCTION PROCESSES AND/OR SAFETY REQUIREMENTS.

- MISCELLANEOUS**
 - REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNO.

- CONTRACTOR DESIGNED ELEMENTS SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER LICENSED IN WHICH THE PROJECT IS LOCATED.** SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS ARE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. ALL DOCUMENTS NOTED SHALL BE SEALED BY THE LICENSED ENGINEER. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE BY THE CONTRACTOR'S ENGINEER:
 - TEMPORARY BRACING AND SHORING
 - RTU CURBS AND CURB ATTACHMENT TO STRUCTURAL STEEL

- EXISTING CONDITIONS**
 - EXISTING CONDITIONS INDICATED ON DRAWINGS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF ANY EXISTING STRUCTURE AT THE JOB SITE AND REPORT DISCREPANCIES FROM THE ASSUMED CONDITIONS INDICATED ON THE DRAWINGS TO PFI PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBER.

- ANY MODIFICATIONS TO THE PLANS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE SUBMITTED TO PFI FOR APPROVAL.**

- EXISTING STRUCTURE HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.**

- THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.**

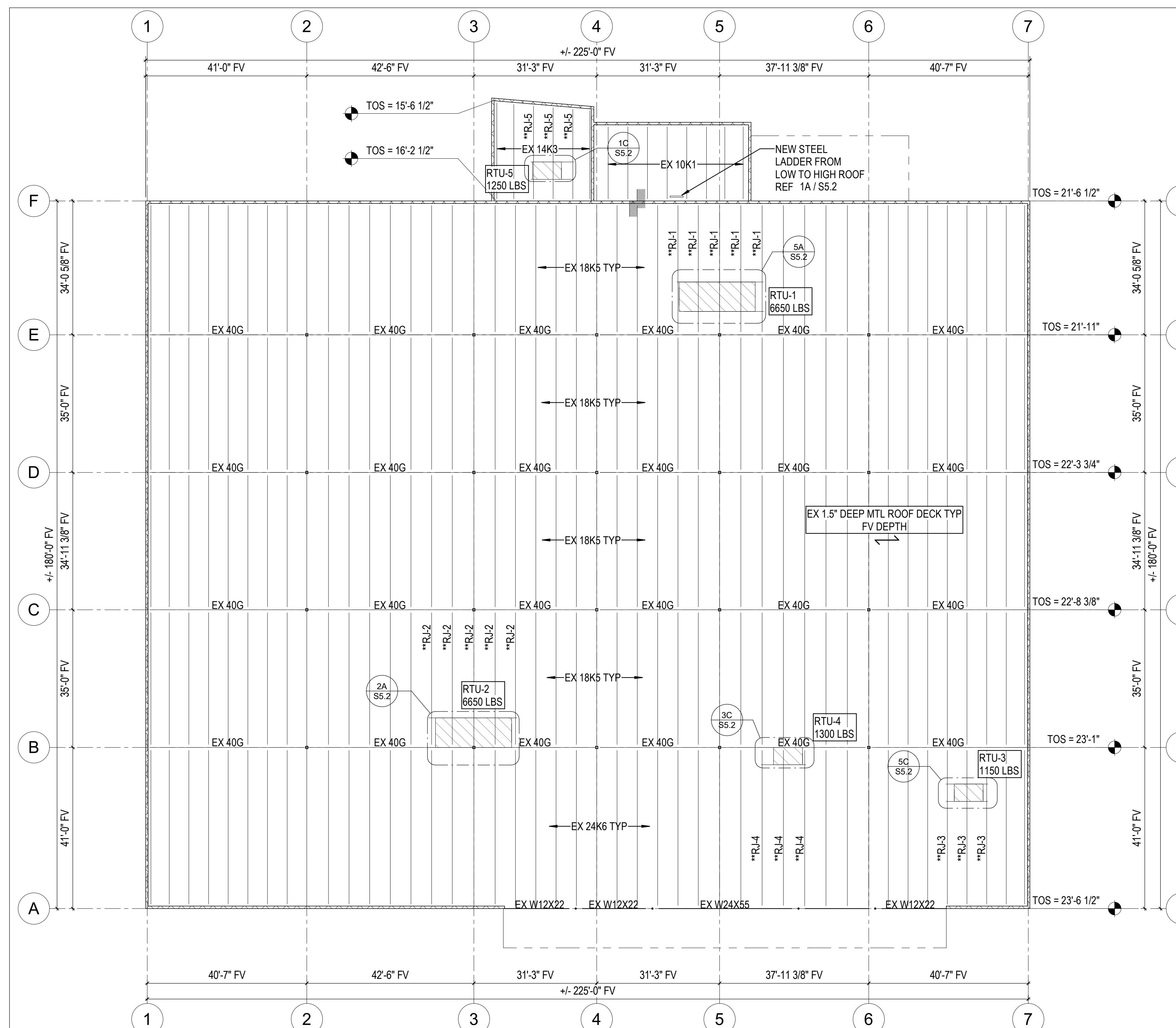
- EXISTING STRUCTURAL FRAMING AND LAYOUT IS BASED UPON EXISTING CONSTRUCTION DOCUMENTS TITLED "RUSSELLVILLE IGA", DATED 4/13/1992 AND VISUAL OBSERVATIONS PERFORMED BY PFI IN MAY 2022 AND JUNE 2023.**

B. STRUCTURAL STEEL, JOISTS, AND METAL ROOF DECK

- CODES AND STANDARDS:**
 - UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY:
 - AISC 360 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION
 - AISC 303 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION
 - SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, LATEST EDITION
 - AWS D1.1 - STRUCTURAL WELDING CODE - STEEL, LATEST EDITION
 - AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION
 - AMERICAN WELDING SOCIETY (AWS) D1.3 STRUCTURAL WELDING CODE - SHEET STEEL, LATEST EDITION
 - STEEL DECK INSTITUTE (SDI) MANUAL OF CONSTRUCTION WITH STEEL DECK, LATEST EDITION
 - STEEL DECK INSTITUTE (SDI) CODE OF STANDARD PRACTICE, LATEST EDITION
 - STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATION, LATEST EDITION
 - SJI CODE OF STANDARD PRACTICE, LATEST EDITION
 - APPLICABLE OSHA STANDARDS
 - WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1 AND D1.3.

- MATERIALS**
 - WIDE FLANGE SHAPES: ASTM A992, F_y = 50 KSI
 - CHANNELS AND ANGLES: ASTM A36, F_y = 36 KSI
 - PLATES: ASTM A36, F_y = 36 KSI OR ASTM A572, GRADE 50, F_y = 50 KSI
 - HSS SHAPES: ASTM A500, GRADE B, F_y = 42 OR 46 KSI
 - PIPES: ASTM A53, GRADE B, F_y = 35 KSI
 - HIGH STRENGTH BOLTS: ASTM A325 OR A490
 - NUTS: ASTM A563
 - WASHERS: ASTM F436
 - ANCHOR RODS: ASTM F1554, GRADE 36, 55, OR 105, F_y = 36, 55, OR 105 KSI
 - ELECTRODES: SERIES E70
 - HEADED STUD ANCHORS: ASTM A108, TYPE B, F_y = 65 KSI
 - DEFORMED BAR ANCHORS: ASTM A108, TYPE C, F_y = 80 KSI
 - EXPANSION BOLTS: HILTI "KWIK BOLT T22" OR APPROVED EQUAL
 - SCREW ANCHORS: HILTI "KWIK HUS-EZ" OR APPROVED EQUAL
 - ADHESIVE ANCHORING SYSTEM: HILTI "HIT-HY 200" WITH SAFESET AND HAS-E RODS OR APPROVED EQUAL
 - POWDERED ACTUATED FASTENERS: HILTI X-U OR APPROVED EQUAL

- MISCELLANEOUS:**
 - STRUCTURAL STEEL FRAMING SHALL BE ERECTED TRUE AND PLUMB. ANY FRAMING EXCEEDING TOLERANCES OF THE AISC CODE OF STANDARD PRACTICE SHALL BE CORRECTED AS DIRECTED BY PFI.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING OF THE STRUCTURAL STEEL AS REQUIRED DURING ERECTION.
 - PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, NOTIFY PFI.
 - STEEL SUPPORTING HVAC AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON PLANS AND DETAILS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR TO COORDINATE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH THIS WORK.
 - ALL STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO EARTH AND WEATHER SHALL BE HOT-DIPPED GALVANIZED.
 - DO NOT HANG APPURTENANCES SUCH AS LIGHT FIXTURES, DUCTWORK, AND OTHER UTILITIES FROM THE ROOF DECK.
 - ROOF DECK OPENINGS LARGER THAN 12" MUST BE REINFORCED AND FRAMED PER TYPICAL DETAIL.
 - ALL LOADS GREATER THAN 100# SUSPENDED FROM JOIST TOP OR BOTTOM CHORDS SHALL BE CENTERED ON THE JOIST CHORD AND ATTACHED TO ALL ELEMENTS OF MULTI-ELEMENT CHORDS. CLAMP TYPE OR SIDE MOUNTED HANGERS ARE NOT PERMITTED.
 - STEEL JOISTS AND JOIST GIRDERS SHALL NOT BE USED AS ANCHORAGE POINTS FOR A FALL ARREST SYSTEM.
 - WHERE FILLET WELD SIZE IS NOT INDICATED ON A DETAIL, ITS SIZE SHALL BE ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16".



4A ROOF FRAMING PLAN
1/16" = 1'-0"

- NOTE:**
- **RJ-X INDICATES JOIST REQUIRING REINFORCEMENT
 - TOS = BOTTOM OF METAL DECK

REVISIONS

PROJECT #: 26457.00
DATE: JAN. 04, 2024
DRAWN BY: HT
DESIGNER: HT
CHECKED BY: HT



KROGER Y-624
HVAC RENOVATION
1009 WEST MAIN STREET
RUSSELLVILLE, AR 72801

SHEET NUMBER

SHEET NUMBER

S0.1

DESCRIPTION:
GENERAL NOTES & ROOF PLAN

