

MECHANICAL GENERAL DEMO NOTES

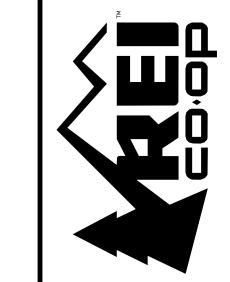
- 1. FOR EQUIPMENT TAGGED AS XRR, REFER TO CORRESPONDING MECHANICAL PLAN SHEET FOR FINAL LOCATION.
- 2. ALL UNUSED DUCTWORK SHALL BE CAPPED BACK TO MAIN.
- 3. ALL UNUSED EQUIPMENT, HANGERS, DUCTS, SUPPORTS, PIPES, AND WIRING SHALL BE DISCONNECTED, PROPERLY DISPOSED OF, AND REMOVED BACK TO SOURCE.
- 4. ALL RESULTING UNUSED OPENINGS IN WALLS, FLOORS, AND CEILINGS DUE TO DEMOLITION SHALL BE PATCHED TO MATCH EXISTING CORRESPONDING MATERIAL.
- 5. ALL UNUSED PIPING TO BE CAPPED BACK TO MAIN.
- 6. THE LOCATION OF EQUIPMENT SHOWN ON THE DRAWINGS IS BASED ON SITE OBSERVATIONS AND THE BEST AVAILABLE INFORMATION AT THE TIME OF DRAWING PREPARATION AND SOME DISCREPANCIES MAY EXIST. VERIFY EXACT LOCATIONS OF EQUIPMENT TO BE REMOVED IN THE FIELD AND REQUEST CLARIFICATION FROM THE ENGINEER WHEN LOCATION OR EXISTANCE DIFFERS FROM PLANS.

MECHANICAL DEMO KEY NOTES

- (1) EXISTING ROOFTOP UNIT AND ASSOCIATED GAS PIPING TO REMAIN AND BE RE-USED. BALANCE AS PER SCHEDULE. CONTRACTOR TO VERIFY LOCATION IN FIELD AND ADJUST DUCTWORK AS NECESSARY FOR COMPLETE INSTALLATION. PROVIDE ROUTINE MAINTENANCE INCLUDING BUT NOT LIMITED TO, CHANGING FILTERS & BELTS, RECHARGING REFRIGERANT, ETC.
- (2) EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO BE DEMOLISHED. CAP ROOF CURB FOR WEATHER TIGHT SEAL. EXHAUST DUCTWORK TO BE DEMO'D BACK TO ROOF AND CAPPED.
- 3 EXISTING UNIT HEATER TO REMAIN AND BE RE-USED.
- 4 EXISTING MECHANICAL EQUIPMENT ALONG WITH ASSOCIATED APPURTENANCE TO BE DEMOLISHED.
- (5) EXISTING DUCTWORK TO BE RE-USED WHEREVER POSSIBLE. SEE M-100 FOR NEW DUCTWORK LAYOUT.
- 6 EXISTING SENSOR TO REMAIN AND BE RE-USED.
- $\langle \overline{7} \rangle$ EXISTING RELIEF HOOD TO BE ABANDONED IN PLACE. DUCTWORK TO BE DEMO'D BACK TO ROOF AND
- (8) EXISTING CONCENTRIC DIFFUSER TO BE DEMOLISHED.
- (9) EXISTING SENSOR TO REMAIN AND BE RE-LOCATED. REFER TO SHEET M-100 FOR NEW LOCATION. EXTEND/ADJUST WIRING AS NECESSARY.
- EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO BE DEMOLISHED. RE-USE THE EXISTING CURB FOR NEW EXHAUST FAN AND PROVIDE ADAPTIVE CURB AS NEEDED.
- (11) EXISTING SUPPLY GRILLE TO BE DEMOLISHED. CAP DUCTWORK BACK AT MAIN.

		MECHANICAL ABBREVIATIONS
Х	(EXISTING TO REMAIN
Х	Ю	EXISTING TO BE DEMOLISHED
Х	(RR	EXISTING TO BE RELOCATED
Х	(R	EXISTING RELOCATED
N	١	NEW

CUTTING, PATCHING, AND REPAIRING OF WALL/FLOOR/CEILING/ROOF ASSEMBLIES MAY BE NECESSARY FOR INSTALLATION OF NEW WORK. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REVIEW DEMO DRAWINGS PRIOR TO SUBMITTING BID.



RCHITECT INFORMATION:

DNSULTANT INFORMATION:



PROJECT INFORMATION:

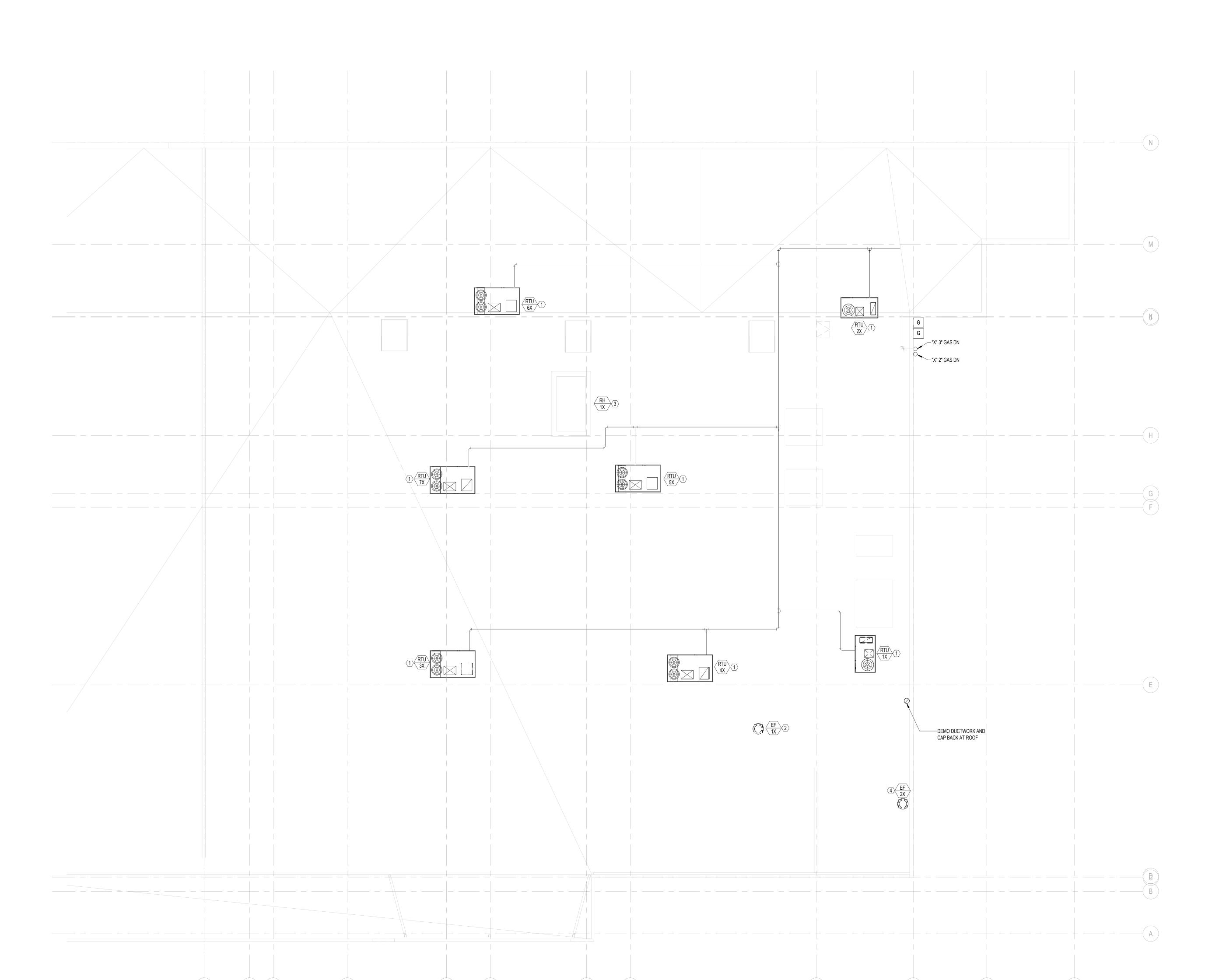


REV DATE DESCRIPTION
11/08/2021 BID SET

1ST FLOOR DEMOLITION PLAN - MECHANICAL

MD-100

MD-101



MECHANICAL GENERAL DEMO NOTES

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- (3) EXISTING RELIEF HOOD TO BE ABANDONED IN PLACE. DUCTWORK TO BE DEMO'D BACK TO ROOF AND CAPPED.
- EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO BE DEMOLISHED. RE-USE THE EXISTING CURB FOR NEW EXHAUST FAN AND PROVIDE ADAPTIVE CURB AS NEEDED.

MECHANICAL ABBREVIATIONS

X EXISTING TO REMAIN

XO EXISTING TO BE DEMOLISHED

XRR EXISTING TO BE RELOCATED

XR EXISTING RELOCATED

NEW

CUTTING, PATCHING, AND REPAIRING OF WALL/FLOOR/CEILING/ROOF ASSEMBLIES MAY BE NECESSARY FOR INSTALLATION OF NEW WORK. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REVIEW DEMO DRAWINGS PRIOR TO SUBMITTING BID.

MECHANICAL

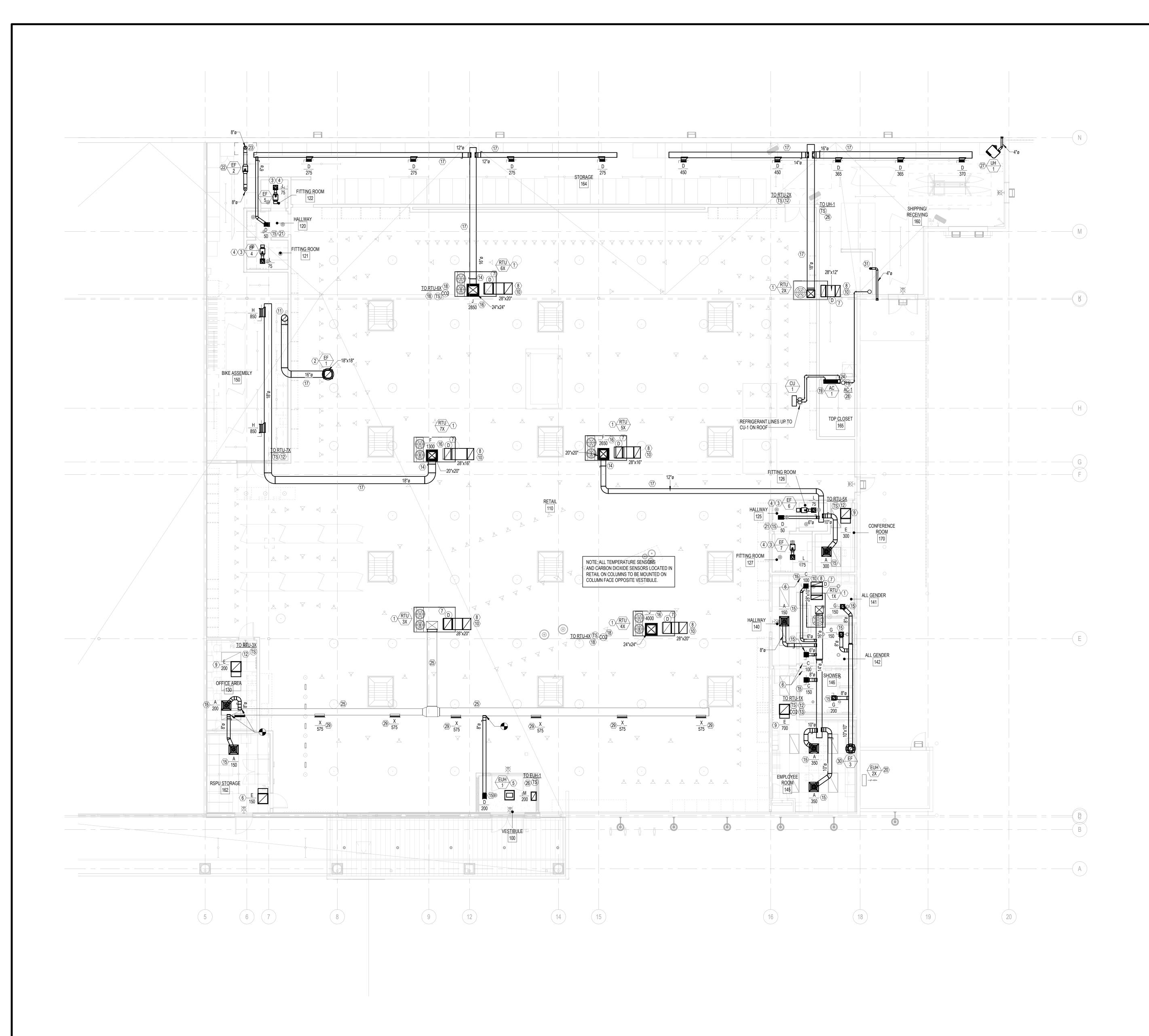
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FLOOR PLAN - MECHANICAI

M-100

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MECHANICAL GENERAL NOTES

- 1. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE, PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- 3. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- 4. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY
- 5. EXHAUST OUTLETS SHALL BE LOCATED A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKES.
- 6. PROVIDE LABEL ON EACH ROOFTOP UNIT WHICH CLEARLY STATES "RTU-#A". UNIT NUMBER SHALL MATCH NUMBER SHOWN ON PLAN. TEXT SHALL BE 4" HELV. MED.
- 7. THE LOCATION OF EQUIPMENT SHOWN ON THE DRAWINGS IS BASED ON SITE OBSERVATIONS AND THE BEST AVAILABLE INFORMATION AT THE TIME OF DRAWING PREPARATION AND SOME DISCREPANCIES MAY EXIST. VERIFY EXACT LOCATIONS OF EQUIPMENT TO BE REMOVED IN THE FIELD AND REQUEST CLARIFICATION FROM THE ENGINEER WHEN LOCATION OR EXISTANCE DIFFERS FROM PLANS.
- 8. INSTALL ALL METAL DUCT SUPPORTS AND SPACING ON THE PLANS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

MECHANICAL KEY NOTES

- $\langle 1 \rangle$ Existing rooftop unit and associated gas piping to remain and be re-used. Balance as per schedule. CONTRACTOR TO VERIFY LOCATION IN FIELD AND ADJUST DUCTWORK AS NECESSARY FOR COMPLETE INSTALLATION. PROVIDE ROUTINE MAINTENANCE INCLUDING BUT NOT LIMITED TO, CHANGING FILTERS & BELTS, RECHARGING REFRIGERANT, ETC.
- $\langle \overline{2} \rangle$ PROVIDE ROOF MOUNTED EXHAUST FAN ON FACTORY FABRICATED ROOF CURB. REFER TO DETAIL 2/M-300.
- 3 PROVIDE INLINE EXHAUST FAN. SUPPORT FAN FROM STRUCTURE ABOVE WITH STEEL CHANNEL AND THREADED ROD WITH VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTORS ON THE INLET AND DISCHARGE DUCT CONNECTIONS. DISCHARGE DUCT TO HAVE ACOUSTICAL LINER (INSTALLED PER DETAIL 11/M-300) AND TERMINATE WITH OPEN ENDED DUCT. REFER TO DETAIL 5/M-300.
- 4 TERMINATE EXHAUST GRILLE AT 10'-7" A.F.F. COORDINATE WITH STRUCTURAL FRAMING.
- $\overline{5}$ PROVIDE RECESSED CEILING MOUNTED UNIT HEATER. MOUNTER HEATER IN CEILING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- (6) UNDERCUT DOOR 1".
- 7 DUCT MOUNTED SMOKE DETECTOR FURNISHED BY FIRE ALARM CONTRACTOR AND INSTALLED IN DUCT BY MECHANICAL CONTRACTOR. INTERLOCK WIRING BETWEEN FIRE ALARM SYSTEM RELAY AND UNIT SHUTDOWN CONTACT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. ALL OTHER WIRING BY FIRE ALARM CONTRACTOR. UPON DETECTION OF SMOKE, UNIT SHALL SHUT DOWN UPON SIGNAL FROM FIRE ALARM SYSTEM.
- $\langle 8 \rangle$ PROVIDE RETURN AIR BOOT WITH ACOUSTICAL DUCT LINER. LINER SHALL BE 1" THICK 3 PCF DENSITY, LONG TEXTILE TYPE FIBER, WITH SURFACE CLEANABLE PER NAIMA DUCT CLEANING GUIDELINES. INSTALL LINER IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. LAMINATE LINER TO INTERNAL SURFACES OF DUCT IN ACCORDANCE WITH LINER MANUFACTURER'S INSTRUCTIONS, AND FASTEN WITH MECHANICAL FASTENERS.
- 9 REFER TO DETAIL 11/M-300.
- (10) ELBOW END OF RETURN AIR DUCT UP. PROVIDE ONE DUCT DEPTH BETWEEN DECK AND OPENING. REFER TO DETAIL 3/M-300
- (11) REFER TO DETAILS 1/M-300 AND 7/M-300
- (12) RELOCATED TEMPERATURE SENSOR. ADJUST CONTROL WIRING AS NECESSARY FOR NEW LOCATION.
- (13) INSTALL CO2 SENSOR COMPATIBLE WITH NOVAR SYSTEM. MOUNT SENSOR AT 60" AFF.
- (14) USE 60° SHOE TAP FOR DUCT CONNECTION.
- (15) PROVIDE RIGID DUCTWORK ALL THE WAY TO DIFFUSER. REFER TO DETAIL 6/M-300.
- (16) BALANCE DROP BOX DIFFUSER TO CFM INDICATED IN ROOFTOP UNIT SCHEDULE MINUS THE BRACH TAKE-OFF
- $\langle \overline{17} \rangle$ MOUNT TOP OF DUCTWORK TIGHT TO BOTTOM OF JOISTS.
- (18) EXISTING TEMPERATURE SENSOR TO REMAIN AND BE RE-USED.
- (19) NEW SPLIT SYSTEM. ROUTE DX PIPING UP TO ASSOCIATED CU-1 ON ROOF. COORDINATE WITH PLUMBING CONTRACTOR FOR CONDENSATE ROUTING AND CONDENSATE PUMP. MOUNT INDOOR UNIT ON WALL (BOTTOM AT 8'-6" AFF). REFER TO DETAIL 8/M-300 FOR MORE INFORMATION.
- (20) EXISTING UNIT HEATER TO REMAIN AND BE RE-USED.
- (21) MOUNT BOTTOM OF SUPPLY DIFFUSER AT 10'-7" A.F.F. COORDINATE WITH STRUCTURAL FRAMING.
- 22 PROVIDE INLINE EXHAUST FAN. SUPPORT FAN FROM STRUCTURE ABOVE WITH STEEL CHANNEL AND THREADED ROD WITH VIBRATION ISOLATORS. MOUNT BOTTOM OF FAN AT 12'-0" ABOVE FINISHED FLOOR. PROVIDE FLEXIBLE CONNECTORS ON THE INLET AND DISCHARGE DUCT CONNECTIONS. TRANSITION FROM FAN DISCHARGE TO DUCT SIZE SHOWN AND EXTEND UP THRU ROOF TO JACK, STORM COLLAR, AND ALL-WEATHER CAP. REFER TO DETAIL
- (23) CONNECT DUCT TO OWNER FURNISHED ROPE CUTTER.
- (24) CONDENSATE DRAIN LINE FROM AC-1. PROVIDE WITH CONDENSATE PUMP AND ROUTE 3/4" CONDENSATE DRAIN TO NEAREST SERVICE SINK. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION. CONDENSATE LINE TO DROP DOWN INTO WALL AND DISCHARGE INTO SERVICE SINK WITH AIR GAP.
- (25) EXISTING DUCTWORK TO REMAIN AND BE RE-USED.
- (26) INSTALL BAS TEMPERATURE SENSOR AT 60" AFF.
- PROVIDE GAS FIRED UNIT HEATER AND SUSPEND HEATER FROM STRUCTURE ABOVE WITH STEEL CHANNEL AND ALL-THREAD ROD. MOUNT BOTTOM OF UNIT HEATER AT 10'-0" AFF. PROVIDE VENT WITH SIDEWALL VENT TERMINATION KIT AND INSTALL IN ACCORDANCE WITH UNIT HEATER MANUFACTURER'S INSTRUCTIONS. TERMINATE VENT PER CODE, AND A MINIMUM OF 10'-0" ABOVE GRADE.
- THERMOSTAT TO BE SET TO 72 DEGREES F; CONNECT TO NOVAR TO ALLOW FOR MONITORING.
- 29 BALANCE EXISTING DIFFUSER/GRILLE TO PLAN SPECIFICED CFM.
- PROVIDE NEW ROOF MOUNTED EXHAUST FAN ON EXISTING ROOF CURB. PROVIDE ADAPTICE CURB AS NECESSARY.
- (31) FURNISH AND INSTALL 4" VENT DUCTWORK FROM DRYER THRU SIDEWALL. INSTALL AND TERMINATE VENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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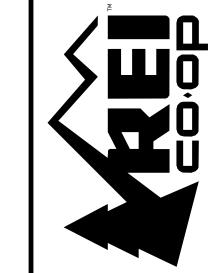
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- 6. PROVIDE LABEL ON EACH ROOFTOP UNIT WHICH CLEARLY STATES "RTU-#A". UNIT NUMBER SHALL MATCH NUMBER SHOWN ON PLAN. TEXT SHALL BE 4" HELV. MED.
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- 8. INSTALL ALL METAL DUCTS SUPPORTS AND SPACING ON THE PLANS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

MECHANICAL KEY NOTES

CONTRACTOR TO VERIFY LOCATION IN FIELD AND ADJUST DUCTWORK AS NECESSARY FOR COMPLETE INSTALLATION. PROVIDE ROUTINE MAINTENANCE INCLUDING BUT NOT LIMITED TO, CHANGING FILTERS & BELTS, RECHARGING REFRIGERANT, ETC.

 $\langle 1 \rangle$ EXISTING ROOFTOP UNIT AND ASSOCIATED GAS PIPING TO REMAIN AND BE RE-USED. BALANCE AS PER SCHEDULE.

- 2 PROVIDE ROOF MOUNTED EXHAUST FAN ON FACTORY FABRICATED ROOF CURB. REFER TO DETAIL 2/M-300.
- PROVIDE CODE APPROVED ROOFTOP STAND SIZED BY MANUFACTURER FOR ROOFTOP EQUIPMENT. INSTALL PER MANUFACTURER'S INSTRUCTION.
- (4) LIQUID/SUCTION LINES DOWN TO AC UNITS. PROVIDE ROOF PENETRATIONS AND BOOT (MODEL TO BE PATE PCC-3
- $\overline{\langle 5 \rangle}$ PROVIDE NEW ROOF MOUNTED EXHAUST FAN ON EXISTING ROOF CURB. PROVIDE ADAPTIVE CURB AS NEEDED.
- (6) EXISTING RELIEF HOOD TO BE ABANDONED IN PLACE. DUCTWORK TO BE DEMO'D BACK TO ROOF AND CAPPED.
- 7 ROUTE 1" GAS DOWN BELOW ROOF TO CONNECT TO UNIT HEATER.



RCHITECT INFORMATION:

DNSULTANT INFORMATION:



ROOF PLAN - MECHANICAL

M-101

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*SERVED BY ADJACENT SPACE SUPPLY **SPACE MONITORED BY CO2 SENSOR

			AIR DE	VICE SC	HEDULE					
MARK	MANUFACTURER	MODEL	TYPE	NECK SIZE (L"XW")	FACE SIZE (L"XW")	FRAME TYPE	FINISH	NOISE CRITERIA LEVEL	ACCESSORIES	NOTES
Α	PRICE	SCD	SQUARE CONE DIFFUSER	PER PLAN	24"X24"	LAY-IN	WHITE	<30	SB	-
С	PRICE	SCD	SQUARE CONE DIFFUSER	PER PLAN	12"X12"	SURFACE	WHITE	<30	OBD, TRM	-
D	PRICE	520D	SUPPLY REGISTER	12"X8"	14"X10"	SURFACE	WHITE	<30	OBD, TRM	-
E	PRICE	80	EGGCRATE GRILLE	22"X22"	24"X24"	LAY-IN	WHITE	<30	-	-
F	AES INDUSTRIES INC	ADB-1-7-4	DROP BOX DIFFUSER	19"X19"	28"X28"	-	WHITE	<35	DDG	-
G	PRICE	80	EGGCRATE GRILLE	10"X10"	12"X12"	SURFACE	WHITE	<20	OBD, STR, TRM	-
Н	PRICE	SDGE	SPIRAL DUCT GRILLE	18"X8"	20"X10"	DUCT MOUNT	-	<30	ASD	1,2
J	AES INDUSTRIES INC	ADB-1-10-4	DROP BOX DIFFUSER	24"X24"	30"X30"	-	WHITE	<35	DDG	-
L	PRICE	610Z	LOUVERED RETURN GRILLE	10"x10"	12"x12"	SURFACE	WHITE	<30	OBD, TRM	-
М	PRICE	80	EGGCRATE GRILLE	22"X10"	24"X12"	SURFACE	WHITE	<30	TRM	-

ASD-AIR SCOOP DAMPER, DDG-DOUBLE DEFLECTION GRILLES, OBD-OPPOSED BLADE DAMPER, SB- SECTORIZING BAFFLE FOR OTHER THAN 4-WAY THROW, STR- SQUARE TO ROUND TRANSITION, TRM-RAPID MOUNT SHEETROCK FRAME

3. PROVIDE WITH RECESSED MOUNTING ENCLOSURE.

 PROVIDE WITH DOUBLE DEFLECTION CORE. 2. ADJUST FRONT BLADES TO BLOW 30 DEG FROM CENTER-LINE OF GRILLE AND REAR BLADES TO BLOW AIR 22 DEG DOWNWARD FROM HORIZONTAL

			ELECTR	IC HEAT	TER SO	CHEDUI	LE			
				AID ELOW	ELEC	TRIC HEAT	EL			
MARK	MANUFACTURER	MODEL	TYPE	AIR FLOW (CFM)	INPUT (WATTS)	OUTPUT (BTU/HR)	VOLTS/Ø/HZ	MCA (AMPS)	MOCP (AMPS)	NOTES
EUH-1	QMARK	CDF-548	RECESSED CEILING	300	4,000	13,700	208/1/60	19.2	-	1-3

1. FURNISH WITH TEMPERATURE SENSOR COMPATIBLE WITH NOVAR SYSTEM. UNIT SHALL BE CONTROLLED THROUGH NOVAR CONTROL SYSTEM. 2. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.

MECHANICA	L SYMBOLS LEGEND				
ABBREVIATIONS:		EQUIPMENT:			
AFF	ABOVE FINISHED FLOOR		ROOF MOUNTED EXHAUST FAN		EXHAUST DUCT ELBOW UP OR DOWN
BOD	BOTTOM OF DUCT	\ <u>L</u> _Jy			DUOT EL DOMINITU ENTED TUDNINO VANEO
BTU	BRITISH THERMAL UNIT		IN-LINE CABINET FAN	<u> </u>	DUCT ELBOW WITH FIXED TURNING VANES
CFM	CUBIC FEET PER MINUTE		DOOFTON UNIT	}	DUCT BRANCH TAKE-OFF
DB	DRY BULB		ROOFTOP UNIT		DOUBLE ORINI NUMETU DAMBER
EAT	ENTERING AIR TEMPERATURE		RECESSED CEILING UNIT HEATER		ROUND SPIN-IN WITH DAMPER
ESP	EXTERNAL STATIC PRESSURE				SQUARE TO ROUND TAP WITH DAMPER
FOB	FLAT ON BOTTOM		UNIT HEATER		FLEVIDLE BUOT CONNECTION
HZ	FREQUENCY	(5)	TEMPERATURE SENSOR		FLEXIBLE DUCT CONNECTION
NC	NOISE CRITERIA			\	VOLUME DAMPER
PSI	POUNDS PER SQUARE INCH	\bigcirc	THERMOSTAT	VD	
RTU	ROOFTOP UNIT	© 2	CARBON DIOXIDE SENSOR		BACKDRAFT DAMPER
TYP	TYPICAL	D	DUCT SMOKE DETECTOR	BD	
WC	WATER COLUMN	DOUBLE LINE DUCT SYM	MBOLS:		FLEXIBLE DUCTWORK
WB	WET BULB		NEW SHEET METAL DUCTWORK	GENERAL REFERENCES	/NOTATIONS:
GRILLES/DIFFUSERS:			SUPPLY OR OUTSIDE AIR DUCT	$\langle \# angle$	NOTE DESIGNATION
	SUPPLY DIFFUSER		RETURN AIR DUCT		REVISION DESIGNATION
	SUPPLY DIFFUSER WITH 3-WAY THROW		EXHAUST AIR DUCT	TYPE	
	SUPPLY DIFFUSER WITH 2-WAY THROW		EXTINUST AIN DOCT	#	MECHANICAL EQUIPMENT DESIGNATION
ر ا	SIDEWALL MOUNTED SUPPLY REGISTER		DUCTWORK TRANSITION	TAG	
	RETURN GRILLE		DUCTWORK TRANSITION - RECTANGULAR TO ROUND	TAG CFM	DIFFUSER DESIGNATION AND CFM
	EXHAUST GRILLE		SUPPLY DUCT ELBOW UP OR DOWN	DESCRIPTION OF	FICATIONS AND PLAN NOTES FOR DETAILED ALL DEVICES SHOWN IN THIS SCHEDULE.
	DROP BOX DIFFUSER		RETURN DUCT ELBOW UP OR DOWN	2. PROJECT MAY NO INDICATED ON TH	DT USE EVERY SYMBOL OR DEVICE IIS LEGEND.

	EXHAUST FAN SCHEDULE														
						PERFORMANCE			ELECTRICAL			APPROX.			
MARK	MANUFACTURER	MODEL	TYPE	DRIVE TYPE	AIR FLOW (CFM)	EXT. STATIC (IN W.C.)	FAN SPEED (RPM)	VOLTS/Ø/HZ	FAN MOTOR HP	FAN MOTOR WATTS	ACCESSORIES	WEIGHT (LBS)	SERVES	NOTES	
EF-1	GREENHECK	GB-141-3	DOWNBLAST	BELT	1,400	0.5	1,054	120/1/60	1/3	-	BD, BS,DS, RC	85	SHOP	1,2,6	
EF-2	FANTECH	FR-110	INLINE	DIRECT	130	0.4	2,900	120/1/60	-	80	BD, DS, BS	7	ROPECUTTER	1	
EF-3	GREENHECK	G-090-VG	DOWNBLAST	DIRECT	500	0.3	1,725	120/1/60	1/10	-	BD, BS,DS, RC, SC	40	RESTROOMS/SHOWER	4,5,7	
EF-4,-5,-6,-7	GREENHECK	SQ-60-VG	INLINE	DIRECT	75	0.15	1,184	120/1/60	1/10	-	BD, DS	35	FITTING ROOMS	3	

BS-BIRD SCREEN, BD-BACKDRAFT DAMPER, DS-DISCONNECT SWITCH, RC-ROOF CURB, SC-SPEED CONTROLLER

1. FAN SHALL BE CONTROLLED THROUGH THE SWITCH. ELECTRICAL CONTRACTOR TO WIRE. 2. PROVIDE WITH EXPLOSION PROOF MOTOR AND ALUMINUM RUB RING.

3. FAN SHALL BE CONTROLLED THROUGH THE OCCUPANCY SENSOR. ELECRICAL CONTRACTOR TO WIRE. 4. PROVIDE NEMA 3R DISCONNECT SWITCH.

5. FAN TO BE CONTROLLED VIA TIME-CLOCK.

6. PROVIDE WITH 14" HIGH MANUFACTURER RECOMMENDED ROOF CURB.
7. PROVIDE WITH ADAPTIVE CURB AS NEEDED.

						MINI	- SPLI	T SYS	TEM AIR C	CONDITION	IER S	CHED	ULE									
MANUFACTURER	AREA SERVED	TONS	REFRIGERANT	COOLING CAP (BTU/HR)		HEATING C	APACITY			INDO	OOR UNIT						OUTDOOR A	IR COOLED CO	NDENSING	JNIT		REMARKS
MANUFACTURER	AREA SERVED	TONS	REFRIGERAINT	TOTAL	SEER	BTU/HR	COP	TAG	MODEL	ENTERING AIR DB/WB	CFM	WEIGHT	V/PH	MCA	MOCP	TAG	MODEL	WEIGHT	V/PH	MCA	MOCP	REWARNS
DAIKIN	TDP CLOSET 165	1.5	R-410A	18,000	17	20,000	3	AC-1	FAQ18TAVJU	80/67	500	31	208/1	0.5	15	CU-1	RZQ18TAVJU	175	208/1	16.5	20	1-10

1. CONTRACTOR TO PROVIDE SERVICE DISCONNECT SWITCH.

2. PROVIDE FACTORY START UP AND COMPLETE WRITTEN REPORT. 3. MOUNT OUTDOOR UNIT ON ROOF PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SOLID CONCRETE PAD OR PLATFORM.

4. MOUNT INDOOR UNIT ON WALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE MOUNTING SUPPORTS AS NEEDED. 5. MAINTAIN MANUFACTURER'S MINIMUM INSTALLATION CLEARANCES.

6. CONTROL WIRING PER MANUFACTURER'S INSTRUCTIONS. 7. PROVIDE DX LIQUID AND SUCTION REFRIGERANT PIPING SIZED FOR ACTUAL FIELD CONDITIONS AND MANUFACTURER'S RECOMMENDATION.

8. PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP KIT.
9. PROVIDE WITH BRC1E73 CONTROLLER AND BACNET INTERFACE.
10. PROVIDE WITH WIND BAFFLE.

RAND DAGNET INTERFACE.		

1.MECHANICAL CONTRACTOR TO NOTIFY ENGINEER ON RECORD OF ANY DISCREPANCIES.

					GAS FIR	ED UNIT HE	ATER SCHE	DULE				
					VENT SIZE (IN)		HEATER		ELECT	RICAL	APPROX. WEIGHT (LBS)	
MARK	MANUFACTURER	MODEL	TYPE	AIR FLOW (CFM)		FUEL	INPUT (BTU/HR)	OUTPUT (BTU/HR)	VOLTS/Ø/HZ	MOTOR HP		ACCESSORIES
UH-1	REZNOR	UDAP125	V3 SERIES	1,555	4	NATURAL GAS	120,000	100,000	120/1/60	1/4	100	EI,PV,DC
ACCESSORIES EI-ELECTRIC IO	S: GNITION, PV-POWER VENT, D	C-DDC CONTROL			'		-				-1	

1. FURNISH WITH TEMPERATURE SENSOR COMPATIBLE WITH NOVAR SYSTEM. UNIT SHALL BE CONTROLLED THROUGH NOVAR CONTROL SYSTEM.

						EXIS	STING	PACKA	GE RO	OFTO	P UNIT	SCHEDU	JLE										
		OA				AIR	AMBIENT			EXTERNAL	DX	COOLING CO)IL		GAS HE	AT			ELECT	RICAL		APPROX.	
MARK	MANUFACTURER	MODEL	FLOW (CFM)	FLOW (CFM)	OAT (°F)	SEER	EER	STATIC (IN W.C.)	EAT (*FDB/WB)	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	FUEL	INPUT (BTU/HR)	OUTPUT (BTU/HR)	EFF %	VOLTS/Ø/HZ	MOTOR HP	UNIT MCA	MOCP AMPS	WEIGHT (LBS)	NOTES		
RTU-1X	LENNOX	LGH036H4EM1G	120	1,200	95	17	12.5	1.2	80.0/67.0	35,200	-	NATURAL GAS	105,000	84,000	80	460/3/60	1.0	12	15	-	ALL		
RTU-2X	LENNOX	LGH060H4EH1G	400	2,000	95	17	12.7	1.2	80.0/67.0	60,000	-	NATURAL GAS	150,000	120,000	80	460/3/60	0.5	19	25	- '	ALL		
RTU-3X, 4X, 6X	LENNOX	LGH120H4BH2G	920	4,000	95	-	12	1.6	80.0/67.0	118,000	-	NATURAL GAS	240,000	192,000	80	460/3/60	3	27	30	-	ALL		
RTU-5X, 7X	LENNOX	LGH092H4BH1G	690	3,000	95	-	12.5	1.6	80.0/67.0	90,000	-	NATURAL GAS	240,000	192,000	80	460/3/60	2	22	25	-	ALL		
DEMARKS.					•				•														

2. EXISTING UNIT SHALL BE BALANCED AS PER SCHEDULE. CONTRACTOR SHALL FULLY INSPECT AND SERVICE THE UNIT. PROVIDE ROUTINE MAINTENANCE INCLUDING BUT NOT LIMITED TO, CHANGING FILTERS & BELTS, RECHARGING REFRIGERANT, ETC.

HVAC SEQUENCE OF OPERATION

PROVIDE ALL NECESSARY SENSORS, DAMPER ACTUATORS, CONTROL TRANSFORMERS WITH SECONDARY OVERLOAD PROTECTION, WIRING AND CONDUIT TO COMMUNICATE NECESSARY POINTS TO THE NOVAR CONTROLLER TO ACCOMPLISH THE FOLLOWING SEQUENCE OF

OCCUPIED MODE:

THE NOVAR CONTROLLER SHALL BE SET TO DETERMINE OCCUPIED AND UNOCCUPIED HOURS OF OPERATION. HOURS TO BE COORDINATED WITH OWNER.

THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO THE MINIMUM POSITION TO DELIVER THE SCHEDULED QUANTITY OF VENTILATION AIR. REFER TO DEMAND CONTROL VENTILATION BOX FOR CO2 CONTROL INFORMATION.

UPON A SIGNAL FROM THE NOVAR CONTROLLER, IF SPACE TEMPERATURE RISES 2 DEGREES OR MORE ABOVE SET POINT, FIRST STAGE OF COOLING SHALL BE ENERGIZED. IF TEMPERATURE CONTINUES TO RISE AN ADDITIONAL 1 DEGREE OR MORE, ADDITIONAL STAGES OF COOLING (WHERE APPLICABLE) SHALL BE ACTIVATED AS REQUIRED TO SATISFY COOLING DEMAND. WHEN TEMPERATURE FALLS 2 DEGREES BELOW SET POINT, COMPRESSOR(S) SHALL BE DE-ENERGIZED. FOR UNITS WITH MULTI-STAGE AIR VOLUME SUPPLY FANS AND MULTIPLE COMPRESSORS, THE FAN SPEED SHALL BE STAGED ALONG WITH THE COOLING SUCH THAT WHEN ALL COMPRESSORS ARE ENERGIZED. THE SUPPLY FAN IS AT FULL SPEED. FOR SINGLE COMPRESSOR UNITS, THE FAN SPEED SHALL BE STAGED ALONG WITH THE COOLING SUCH THAT WHEN COMPRESSOR IS ENERGIZED IN SECOND STAGE COOLING, THE SUPPLY FAN IS AT FULL SPEED.

ECONOMIZER:

WHEN THE OUTSIDE AIR ENTHALPY IS BELOW THE INDOOR ENTHALPY, CONTROLLER SHALL SIGNAL ECONOMIZER TO MODULATE BETWEEN ITS MINIMUM SET POINT AND FULL OPEN TO MAINTAIN A 55 DEGREE MIXED AIR TEMPERATURE. IF THE OUTDOOR TEMPERATURE IS ABOVE THE COMPRESSOR LOCKOUT THERMOSTAT SETTING. THE FIRST STAGE OF MECHANICAL COOLING SHALL BE ENABLED AS THE SECOND STAGE OF COOLING. THE DIFFERENTIAL ECONOMIZER'S HIGH LIMIT SHUT OFF SHALL BE SET WHEN THE OUTSIDE AIR ENTHALPY EXCEEDS THE INDOOR AIR ENTHALPY.

UPON A SIGNAL FROM THE NOVAR CONTROLLER, WHEN SPACE TEMPERATURE FALLS 2 DEGREES OR MORE BELOW SET POINT, FIRST STAGE OF GAS HEAT SHALL BE ACTIVATED. IF SPACE TEMPERATURE CONTINUES TO FALL AN ADDITIONAL 1 DEGREE, SECOND STAGE OF GAS HEAT SHALL BE ACTIVATED. WHEN TEMPERATURE RISES 2 DEGREES ABOVE SPACE SET POINT, GAS HEAT SHALL BE SHUT OFF. FOR UNITS WITH MULTI-STAGE AIR VOLUME SUPPLY FANS THE FAN SHALL OPERATE AT FULL SPEED DURING HEATING.

<u>UNOCCUPIED MODE:</u>

UPON SIGNAL FROM THE NOVAR CONTROLLER, THE FAN SHALL BE DE-ENERGIZED AND OUTSIDE AIR DAMPER SHALL CLOSE. IF SPACE TEMPERATURE RISES 2 DEGREES OR MORE ABOVE SET POINT, FIRST STAGE OF COOLING SHALL BE ENERGIZED. IF TEMPERATURE CONTINUES TO RISE AN ADDITIONAL 1 DEGREE OR MORE, ADDITIONAL STAGES OF COOLING (WHERE APPLICABLE) SHALL BE ACTIVATED AS REQUIRED TO SATISFY COOLING DEMAND. WHEN TEMPERATURE FALLS 2 DEGREES BELOW SET POINT, COMPRESSOR(S) SHALL BE DE-ENERGIZED AND THE SUPPLY FAN SHUT OFF. FOR UNITS WITH MULTI-STAGE AIR VOLUME SUPPLY FANS AND MULTIPLE COMPRESSORS, THE FAN SPEED SHALL BE STAGED ALONG WITH THE COOLING SUCH THAT WHEN ALL COMPRESSORS ARE ENERGIZED. THE SUPPLY FAN IS AT FULL SPEED. FOR SINGLE COMPRESSOR UNITS, THE FAN SPEED SHALL BE STAGED ALONG WITH THE COOLING SUCH THAT WHEN COMPRESSOR IS ENERGIZED IN SECOND STAGE COOLING, THE SUPPLY FAN IS AT FULL SPEED.

UPON A SIGNAL FROM THE NOVAR CONTROLLER, THE FAN SHALL BE DE-ENERGIZED AND OUTSIDE AIR DAMPER SHALL CLOSE. WHEN SPACE TEMPERATURE DROPS 2 DEGREES OR SHALL BE ACTIVATED AND FIRST STAGE OF GAS HEAT SHALL BE ACTIVATED. IF SPACE TEMPERATURE CONTINUES TO DROP AN ADDITIONAL 1 DEGREE, SECOND STAGE OF GAS HEAT SHALL BE ACTIVATED. WHEN SPACE TEMPERATURE RISES 2 DEGREES ABOVE SET POINT, GAS HEAT SHALL BE SHUT OFF. FAN SHALL RUN AN ADDITIONAL 2 MINUTES AFTER GAS HEAT SHUTS DOWN THEN FAN SHALL SHUT OFF.

WINTER MORNING WARM-UP: UPON SIGNAL FROM THE NOVAR CONTROLLER, 1 HOUR PRIOR TO THE SPACE BEING OCCUPIED, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE ROOFTOP UNITS SHALL OPERATE IN HEATING MODE TO RAISE, AND THEN MAINTAIN, EACH SPACE

OCCUPIED COOLING SET POINT: 74 DEGREES OCCUPIED HEATING SET POINT: 67 DEGREES UNOCCUPIED COOLING SET POINT: 85 DEGREES UNOCCUPIED HEATING SET POINT: 55 DEGREES

TEMPERATURE AT 70 DEGREES F.

A SMOKE DETECTOR SHALL DE-ENERGIZE THE ROOFTOP UNIT FANS AND CLOSE THE OUTSIDE AIR DAMPER IN BOTH THE OCCUPIED AND UNOCCUPIED MODES WHENEVER SMOKE IS SENSED BY SMOKE DETECTORS.

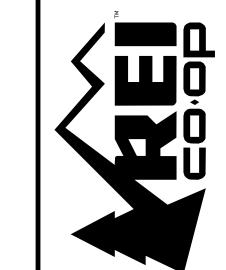
DEMAND CONTROL VENTILATION

DEMAND CONTROL VENTILATION SYSTEM SHALL OPERATE DURING ALL OCCUPIED HOURS. OCCUPIED OPERATION:

CO2 SENSORS SHALL MEASURE CO2 LEVEL OF ROOM AIR. THERE SHALL BE TWO SPACE CO2 SENSORS PER STORE. ONE SENSOR SHALL BE LOCATED IN EMPLOYEE ROOM TO CONTROL EMPLOYEE ROOM HVAC UNIT AND ONE SENSOR SHALL BE LOCATED ON SALES FLOOR TO CONTROL ALL HAVE UNITS SERVING SALES FLOOR. REFER TO MECHANICAL PLAN FOR LOCATIONS. SPACE CO2 SENSORS SHALL SEND A SIGNAL TO NOVAR CONTROL SYSTEM UPON REACHING C02 LEVEL OF 1000 PPM WHICH WILL SIGNAL HVAC UNIT CONTROLLER(S) TO MODULATE OUTDOOR AIR DAMPER FROM A MINIMUM VENTILATION RATE OF 0 TO THE CODE REQUIRED MINIMUM OUTSIDE AIR CFM LISTED IN ROOFTOP UNIT SCHEDULE.

ECONOMIZER MODE SHALL OVERRIDE THE DEMAND CONTROL VENTILATION ALGORITHM TO MODULATE DAMPERS OPEN TO REQUIRED ECONOMIZER DAMPER POSITION. <u>UNOCCUPIED OPERATION:</u>

WHEN BUILDING IS UNOCCUPIED, THE DEMAND CONTROL VENTILATION SYSTEM SHALL BE DISABLED, AND ALL ROOFTOP UNIT OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED.



RCHITECT INFORMATION:

DNSULTANT INFORMATION:



PROJECT INFORMATION:

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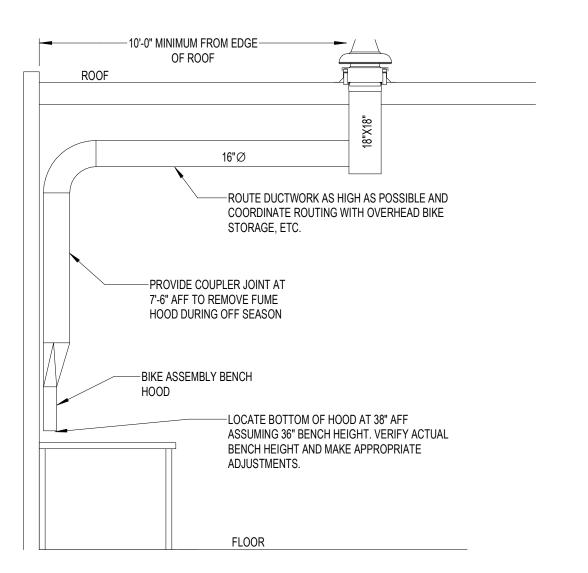
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MECHANICAL SYMBOLS, NOTES, & SCHEDULES

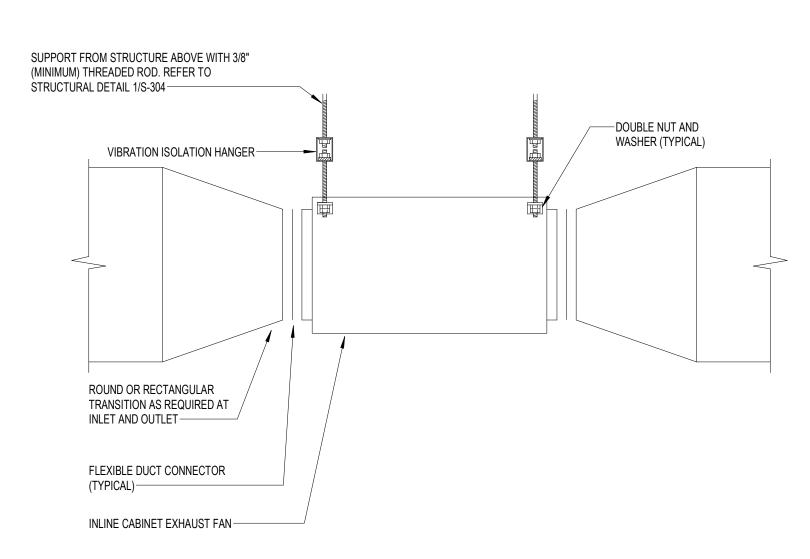
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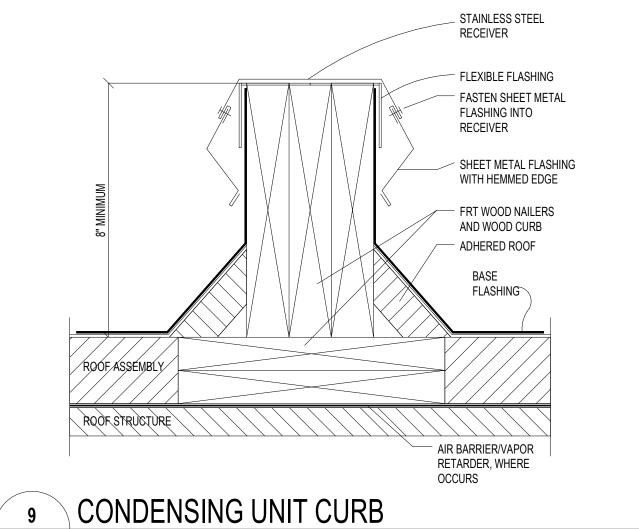
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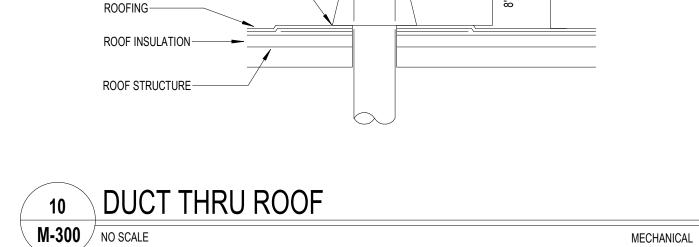


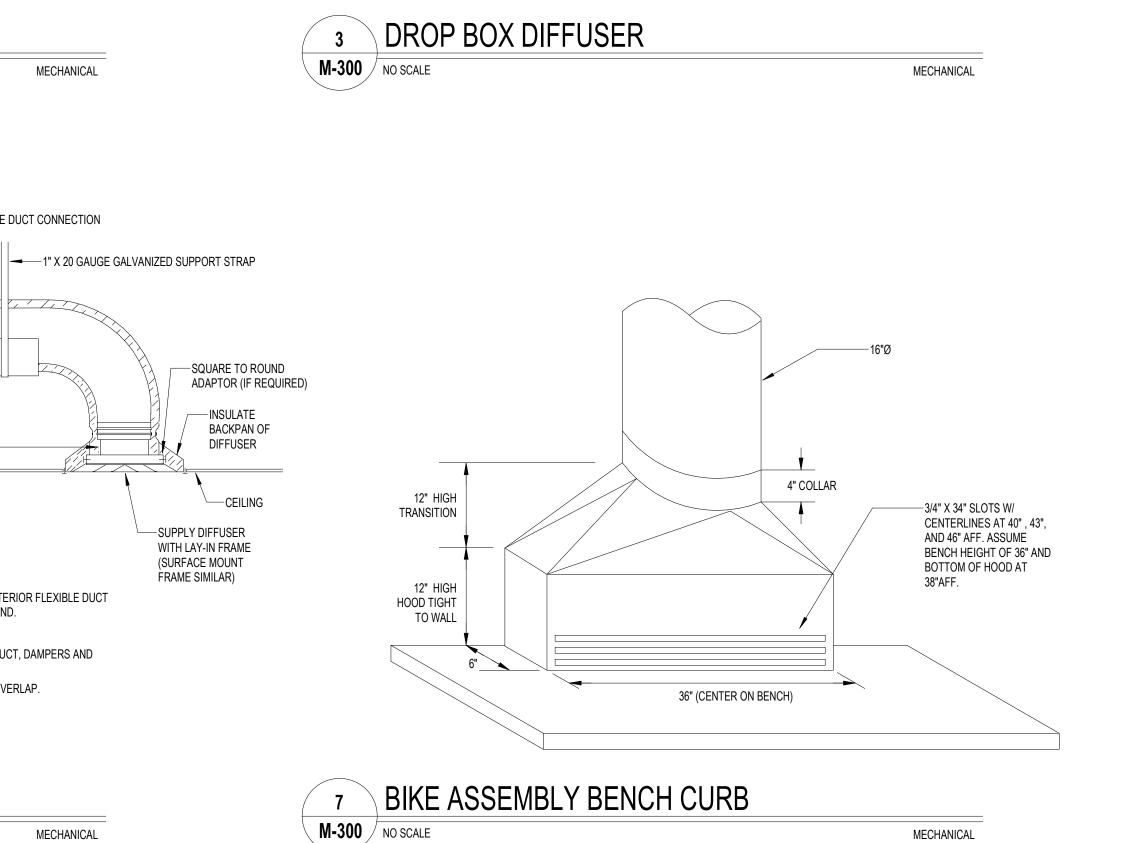






MECHANICAL





BOTTOM OF DROP BOX DIFFUSER

MOUNTED 14'-6" AFF.

NOTE: REFER TO PLANS FOR DUCT SIZE. INSTALL DIFFUSER IN ACCORDANCE

WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

EXTEND DUCTS UP THROUGH ROOF TO ROOFTOP UNIT

-RETURN AIR DUCT.

MOUNT TIGHT TO STRUCTURE.

ALL-THREAD ROD PER

MANUFACTURER'S

INSTALLATION

INSTRUCTIONS.

SUPPORT DROP BOX DIFFUSER

FROM STRUCTURE ABOVE WITH

SUPPLY AIR DUCT—

BRANCH DUCT TAP (WHERE SHOWN ON

VOLUME DAMPER 🖶

DROP BOX DIFFUSER

WHEN DROP BOX

IS BEING USED-

ASSEMBLY-

PROVIDE MAGNETIC LABEL ON SUPPLY DUCT WITH UNIT NUMBER. UNIT NUMBER

SHALL MATCH NUMBER SHOWN ON PLAN.

TEXT SHALL BE 4" HELV. MED. —

—EXHAUST FAN

-BIRD SCREEN

—FLASH AND

COUNTERFLASH

FACTORY FABRICATED

INSULATED ROOF CURB

COMPATIBLE WITH ROOF

ARCHITECTURAL DETAILS.

MECHANICAL

MECHANICAL

FLEXIBLE DUCT CONNECTION

COORDINATE WITH

ROOF CURB --- MINIMUM 14" HIGH

-BACKDRAFT

DAMPER

SECURE EXHAUST FAN TO ROOF CURB AS REQUIRED.

(MINIMUM 2 FASTENERS

ROOF INSULATION

ROOF STRUCTURE

FRAME ROOF OPENING—

INTERNALLY LINED EXHAUST

2 ROOF MOUNTED EXHAUST FAN

INSULATED FLEXIBLE DUCT

NOTES: 1) PROVIDE AT FLEXIBLE DUCT CONNECTION METAL OR "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT

3) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND

—ALL WEATHER VENT CAP

-STORM COLLAR

HELIX. SECURE THE INSULATION OVER THE DRAW BAND WITH AN ADDITIONAL DRAWBAND.

4) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

2) PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.

DIFFUSER STARTER COLLAR (MINIMUM 4"). -

PROTECTION SADDLE-

DUCT DROP. REFER TO

WRAPPED INSULATION COVERING RIGID ROUND DUCT-

BALANCING DAMPER—

INSULATED

SUPPLY DUCT—

BALANCING HANDLE.

LOCK INTO POSITION

6 DIFFUSER CONNECTION

AND MARK PERMANENTLY.

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SOLDER ALL ROUND-

TALL CONE FLASHING -

APPLY SEALANT—

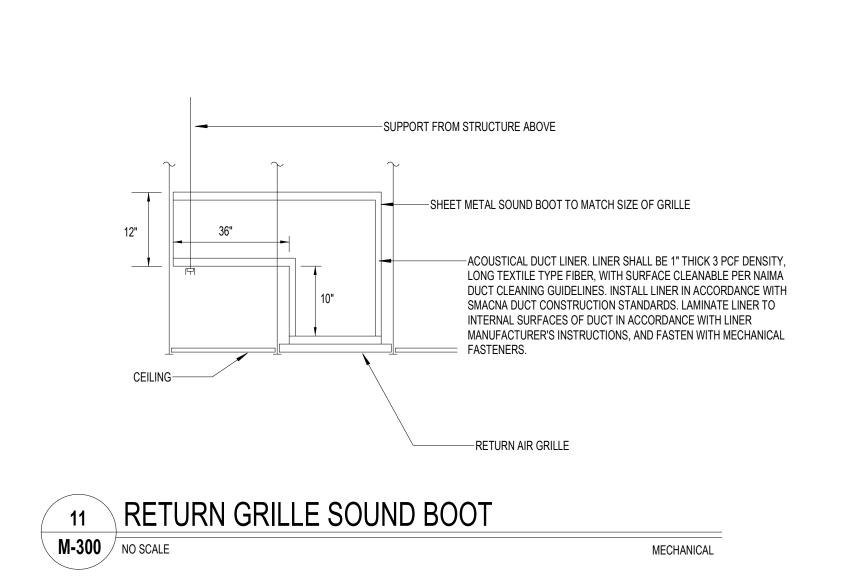
RIGID ROUND SHEET METAL DUCT —

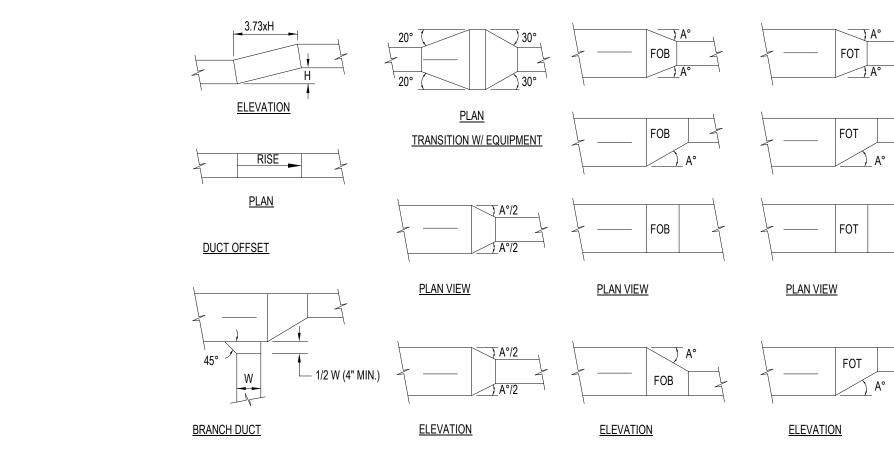
PLANS FOR DUCT SIZES.—

PER SIDE)—

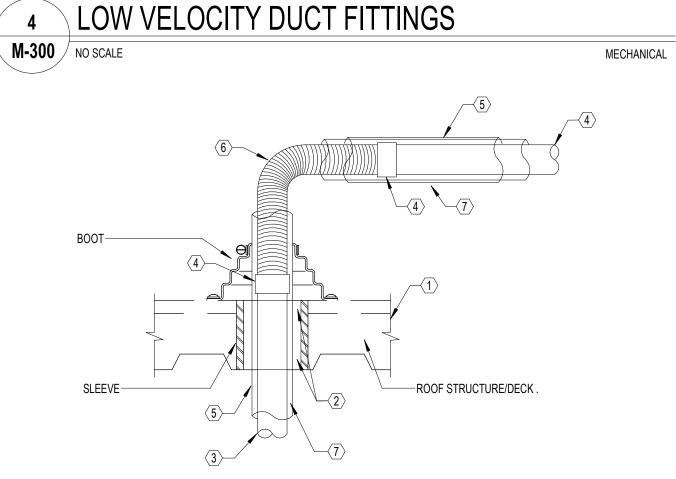
ROOFING-

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NOTES: 1) ANGLE A = 30° WHEN AIR FLOWS IN DIRECTION OF ARROW (SUPPLY AIR). 2) ANGLE A = 20° WHEN AIR FLOWS IN OPPOSITE DIRECTION OF ARROW (RETURN OR EXHAUST).

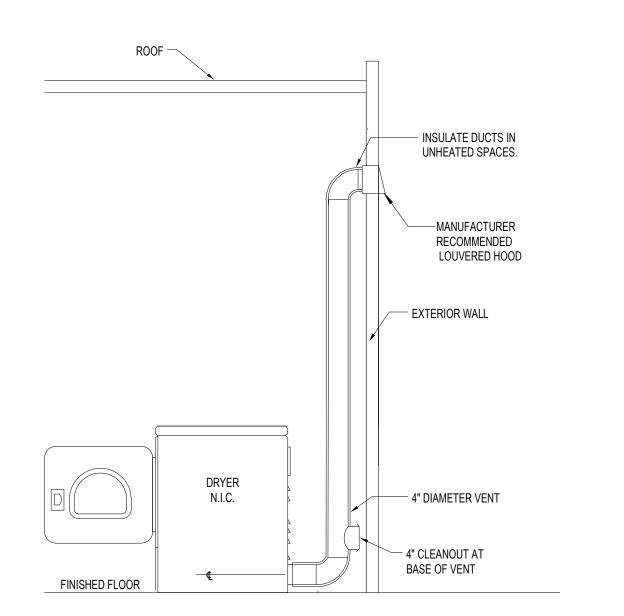


- 1 INSULATION AND BUILT UP ROOFING.
- (2) SEAL PENETRATION GAS-TIGHT WITH INSULATION AND FLEXIBLE SEALANT COMPATIBLE WITH PIPE MATERIAL.
- 3 STANDARD PIPE MATERIAL FOR REFRIGERANT LINES, SUPPORT PIPE
- AWAY FROM BUILDING .
- 4 SUITABLE ADAPTING COUPLING TO CONNECT COPPER REFRIGERANT LINE TO HOSE SECTION.
- 5 PIPE INSULATION SHALL BE CONTINUOUS THRU BOUNDARY SURFACE (ROOF) AND BEYOND.
- (6) NON-METAL HIGH PRESSURE HOSE SECTION. HOSE SECTION AND ABOVE ROOF PIPING SHALL BE COVERED W/ INSULATION AND
- BANDED ALUMINUM PIPE JACKET. PIPE SUPPORT POINT. ENSURE HOSE DOES NOT CARRY ANY PIPE

LOAD FROM REFRIGERANT LINES, SEE NOTE 3.



M-300 NO SCALE MECHANICAL



- NOTES: DRYER VENT DUCTWORK SHALL BE RIGID METAL.
 TERMINATE AND INSTALL VENT PER MANUFACTURER
- RECOMMENDATIONS. 3. VENT TO BE SIZED FOR ACTUAL FIELD CONDITIONS AND PER
- MANUFACTURER RECOMMENDATIONS.
- 4. USE CLAMPS TO SEAL ALL JOINTS. 5. PROVIDE VENT WITH BACKDRAFT DAMPER.



RCHITECT INFORMATION:

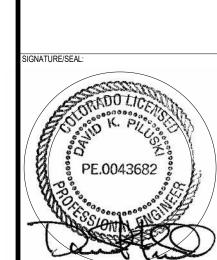
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DNSULTANT INFORMATION:

ROJECT INFORMATION:

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