

MECHANICAL EQUIPMENT TAG NOTES:

- 1. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING 10 TON LENNOX ROOFTOP UNIT; MODEL NO. LGH120H8HG WITH NEW 12-1/2 TON ROOFTOP UNIT AS SCHEDULED ON DWG. M1.1. MECHANICAL CONTRACTOR SHALL REMOVE EXISTING ROOF CURBS AND FURNISH AND INSTALL NEW ROOF CURB FOR NEW LENNOX ROOFTOP UNIT. MODIFY EXISTING ROOF OPENINGS AS NECESSARY TO ACCOMMODATE NEW DUCTWORK FROM NEW ROOFTOP UNIT. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK. THE WEIGHT OF THE EXISTING ROOFTOP UNIT IS APPROXIMATELY 1400 LBS. THE WEIGHT OF THE NEW ROOFTOP UNIT IS 1500 LBS.
- 2. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING 10 TON LENNOX ROOFTOP UNIT; MODEL NO. LGH120H8HG WITH NEW 10 TON ROOFTOP UNIT AS SCHEDULED ON DWG. M1.1. MECHANICAL CONTRACTOR SHALL REMOVE EXISTING ROOF CURBS AND FURNISH AND INSTALL NEW ROOF CURB FOR NEW LENNOX ROOFTOP UNIT. MODIFY EXISTING ROOF OPENINGS AS NECESSARY TO ACCOMMODATE NEW DUCTWORK FROM NEW ROOFTOP UNIT. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK. THE WEIGHT OF THE EXISTING ROOFTOP UNIT IS APPROXIMATELY 1400 LBS. THE WEIGHT OF THE NEW ROOFTOP UNIT IS 1400 LBS.
- 3. MECHANICAL CONTRACTOR SHALL INSTALL NEW LENNOX ROOFTOP UNIT AND ROOF CURBS. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ROOF CURB FOR NEW ROOFTOP UNIT. PROVIDE NEW ROOF OPENINGS AS NECESSARY TO ACCOMMODATE NEW ROOFTOP UNIT. REFER TO ROOFTOP UNIT SCHEDULE ON DWG. M1.1 FOR ADDITIONAL INFORMATION. THE WEIGHT OF THE NEW ROOFTOP UNIT IS 1400 LBS.
- 4. EXISTING ROOFTOP UNIT TO BE ABANDONED IN PLACE. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL BURGLAR BARS AT THE ROOF OPENING(S) IF NONE EXIST. MECHANICAL CONTRACTOR SHALL ALSO COORDINATE WITH ELECTRICAL CONTRACTOR FOR DISCONNECTING POWER AND COORDINATE WITH PLUMBING CONTRACTOR FOR DISCONNECTING GAS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.

NOTE:
MECHANICAL CONTRACTOR SHALL PERFORM AN HVAC SYSTEM CHECK PRIOR TO AND AFTER COMPLETION OF SIEMENS SCOPE OF WORK INCLUDING THE SMOKE DETECTOR "TEST/RESET" BUTTON.

NOTE:
MECHANICAL CONTRACTOR SHALL ENSURE ALL NEW EXPOSED DUCTWORK IS SEALED CLEANLY IN THE EVENT IT DOES NOT RECEIVE A FINAL PAINTED FINISH. COORDINATE WORK WITH GENERAL CONTRACTOR AND HARBOR FREIGHT TOOLS PROJECT MANAGER.

NOTE:
MECHANICAL CONTRACTOR SHALL LEAVE ROOFTOP UNITS IN WIRED THERMOSTAT MODE UNTIL COMMISSIONING.

NOTE:
MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING UNUSED MECHANICAL EQUIPMENT, UNIT HEATERS, EXHAUST FANS, DUCTWORK (CAP AND REMOVE ALL DUCTWORK FROM ABANDONED ROOFTOP UNITS AT THE UNDERSIDE OF ROOF DECK, DEFUSERS, ETC... COMPLETELY UNLESS OTHERWISE NOTED TO REMAIN. GENERAL CONTRACTOR SHALL ENGAGE LANDLORD'S ROOFING CONTRACTOR FOR ALL ROOFING WORK. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO DISCONNECT ELECTRICAL SERVICE FROM EQUIPMENT BEING REMOVED AND COORDINATE WITH PLUMBING CONTRACTOR FOR DISCONNECTING GAS FROM EQUIPMENT BEING REMOVED.

NOTE:
MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL BURGLAR BARS IN THE DUCT DROPS OF THE NEW ROOFTOP UNITS. MECHANICAL CONTRACTOR SHALL ALSO FURNISH AND INSTALL BURGLAR BARS IN DUCT DROPS OF EXISTING ROOFTOP UNIT BEING ABANDONED IF NONE EXIST.

NOTE:
MECHANICAL CONTRACTOR SHALL REFER TO DRAWING M1.1 FOR LABELING OF EQUIPMENT PROCEDURE.

NOTE:
GENERAL CONTRACTOR SHALL ENGAGE LANDLORD'S ROOFING CONTRACTOR FOR ANY ROOFING WORK.

NOTE:
MECHANICAL CONTRACTOR SHALL REFER TO THE SIEMENS EMS DRAWING SET (EMS-1 THRU EMS-3) FOR COMPLETE INTERFACE REQUIREMENTS.

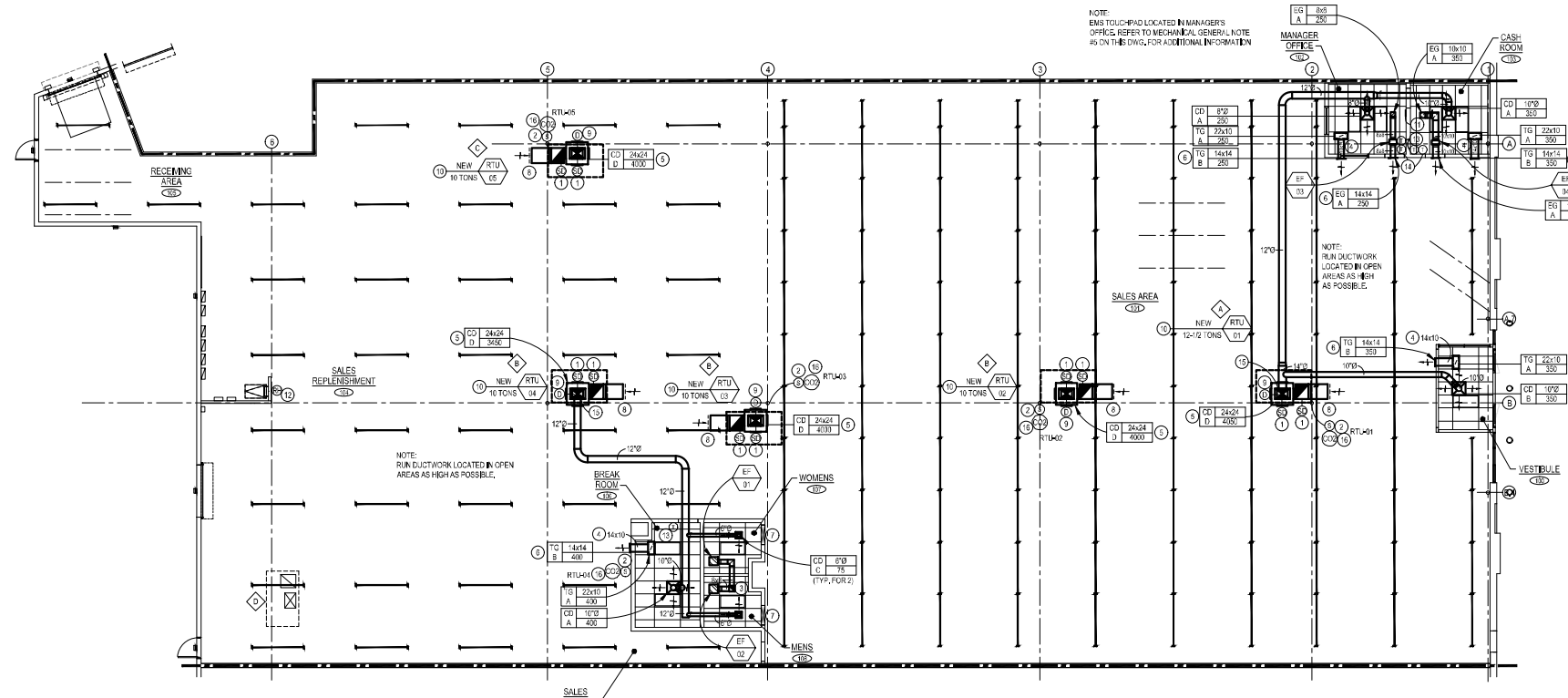
MECHANICAL GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, ETC., NEEDED FOR COMPLETE AND OPERATIONAL SYSTEMS.
2. PERFORM ALL WORK IN ACCORDANCE WITH THE RULES & REGULATIONS OF THE APPROPRIATE STATE AND LOCAL BUILDING CODES AND SUBTITLES.
3. QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
4. IF CONFLICTS EXIST, PRIORITY OF LOCATION IN REFLECTED CEILING GRID SHALL BE AS FOLLOWS FROM HIGH TO LOW: SPRINKLER, MECHANICAL LIGHTS, AND FIRE ALARM DEVICES (AS APPLICABLE).
5. SENSORS AS MANUFACTURED BY SIEMENS. MECHANICAL CONTRACTOR SHALL LABEL EACH SENSOR APPROPRIATELY TO THE CORRESPONDING ROOFTOP UNIT IT SERVES. TOUCHPAD SHALL BE LOCATED IN THE MANAGER'S OFFICE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR.
6. MECHANICAL CONTRACTOR SHALL PROVIDE AN AIR BALANCE REPORT TO VERIFY THAT THE HVAC EQUIPMENT IS FULLY OPERATIONAL. AIR BALANCE REPORT SHALL BE PREPARED BY A THIRD PARTY HIRED BY THE GENERAL CONTRACTOR. PAYMENT OF ALL COSTS FOR TESTING SHALL BE MADE BY THE MECHANICAL CONTRACTOR. TURN OVER AIR BALANCE REPORT TO HARBOR FREIGHT TOOLS GENERAL CONTRACTOR FOR DISTRIBUTION. REFER TO MECHANICAL SPECIFICATIONS ON DWG. M1.3 FOR ADDITIONAL INFORMATION REGARDING TESTING AND BALANCING.

MECHANICAL GENERAL NOTES (CONTINUED):

7. MECHANICAL CONTRACTOR ENSURE THERE ARE FILTERS IN ALL ROOFTOP UNITS DURING CONSTRUCTION AND SHALL INSTALL NEW FILTERS DURING CONSTRUCTION AND REPLACE ALL FILTERS PRIOR TO TURNOVER AND DATE ALL FILTERS WITH INSTALL DATE.
8. MECHANICAL CONTRACTOR SHALL RUN ALL DUCTWORK AS HIGH AS POSSIBLE, MINIMUM OF 12'-0" AFF.
9. MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF SPACE TEMPERATURE SENSORS, RELATIVE HUMIDITY SENSOR AND CARBON DIOXIDE SENSORS WITH SALES FLOOR FIXTURES AND GENERAL CONTRACTOR PRIOR TO INSTALLING SENSORS.
10. THE MECHANICAL CONTRACTOR SHALL BE ON SITE AS THE EMS COMMISSIONING IS BEING PERFORMED TO ENSURE ALL THE REQUIREMENTS ARE RESPONDED TO IF NOT PERFORMING CORRECTLY.
11. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ROOF CURBS COMPLETE WITH BURGLAR BARS FOR ROOFTOP UNITS. MECHANICAL CONTRACTOR SHALL CONFIRM ROOF CURB HEIGHT, ROOF SLOPE, ETC. TO ORDER PROPER ROOF CURB.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
SA	SUPPLY AIR
EA	EXHAUST AIR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
CD	CEILING DEFUSER
OA	OUTSIDE AIR
RA	RETURN AIR
TO	TRANSFER GRILLE
RTU	ROOFTOP UNIT
AF	ABOVE FINISH FLOOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
LL	LANDLORD
⊙	DUCT TEMPERATURE SENSOR
⊙	THERMOSTAT (MTL-42" AFF)
⊙	SPACE TEMPERATURE SENSOR (AS NOTED)
⊙	SMOKE DETECTOR
⊙	RELATIVE HUMIDITY
—	FLEXIBLE DUCT (8'-0" MAX. LENGTH)
—	FLEXIBLE DUCT CONNECTOR
—	MANUAL VOLUME DAMPER
—	ELBOW W/ DEL. THICKNESS TURNING VANES
—	FRESH/RETURN/EXHAUST AIR DUCT
—	SUPPLY AIR DUCT
—	EXTERNAL STATIC PRESSURE

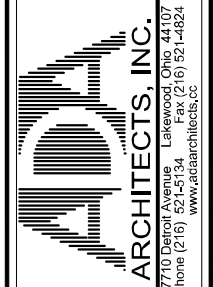


MECHANICAL PLAN TAG NOTES:

1. LENNOX SHALL FURNISH AND INSTALL SMOKE DETECTORS IN THE SUPPLY AND RETURN AIR DUCTS. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL WIRE-ROPE TEST STATION WITH AUDIO VISUAL ALARM SYSTEM SENSOR MODEL RT24AS NEXT TO THE PHONE BOOTH OR AT A LOCATION APPROVED BY THE AUTHORITY HAVING JURISDICTION. MECHANICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING TO RTU AND INTERCONNECT WIRING TO OTHER DUCT DETECTORS AS REQUIRED FOR GLOBAL SHUT-DOWN. MECHANICAL CONTRACTOR SHALL WIRE DETECTORS TO THE ALARM SYSTEM (IF REQUIRED). SEE DUCT DETECTOR DETAIL ON DRAWING M1.2 FOR WIRING.
2. SPACE TEMPERATURE SENSORS MOUNTED ON WALL OR COLUMN AT 7'-0" AFF.
3. EXHAUST AIR DUCT RIBBON TRUSSEY ROOF IN PRE-FAB INSULATED ROOF CURBS TO GOOSENECK WITH BESSOREL. COORDINATE ROOF CURB AND ROOFING REPAIR WITH LANDLORD'S ROOFING CONTRACTOR.
4. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL TRANSFER AIR DUCT WITH 1" THICK ACOUSTIC LINING.
5. MECHANICAL CONTRACTOR SHALL TRANSITION SUPPLY AIR DUCT IN DROP AND CONNECT TO DROP OFF FRESH SYSTEM MOUNT DROP OFF FUSER SYSTEM AS HIGH AS POSSIBLE. REFER TO RTU DROP BOX DEFUSER DETAIL ON DWG. M1.2 FOR ADDITIONAL INFORMATION. OFFSET DROP DEFUSER SYSTEM AS NECESSARY TO AVOID LIGHTS.
6. MOUNT TRANSFER AIR AND/OR EXHAUST AIR GRILLE ON WALL AS HIGH AS POSSIBLE. APPROXIMATELY 2 FEET BELOW STRUCTURE. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL 1/2" X 1/2" X 2" EXEM BOX BEHIND GRILLE. MECHANICAL CONTRACTOR SHALL EXTEND AND CONNECT TRANSFER OR EXHAUST AIR DUCT INTO BACK OF FLEXUM BOX.
7. 1" TOTAL FREE AREA BETWEEN FLOORING AND BOTTOM OF DOOR UNDERCUT DOOR BY GENERAL CONTRACTOR.
8. EXTEND RETURN AIR DUCT FULL SIZE WITH ELBOW AS HIGH AS POSSIBLE. REFER TO RTU DROP BOX DEFUSER DETAIL ON DWG. M1.2. COVER RETURN AIR DUCT OPENING WITH 1/2" WIRE MESH SCREEN. FURNISH AND INSTALL RETURN AIR DUCT WITH 1" THICK ACOUSTIC LINING.
9. DUCT TEMPERATURE SENSOR MOUNTED IN BOTTOM OF MAIN SUPPLY AIR DUCT. REFER TO THE SIEMENS EMS DRAWING SET (EMS-1 THRU EMS-3) FOR MORE INFORMATION.
10. ROOFTOP UNIT DIGITAL ZONE CONTROLLER. REFER TO THE SIEMENS EMS DRAWING SET (EMS-1 THRU EMS-3) FOR MORE INFORMATION.
11. EMS TOUCHPAD. COORDINATE WITH ELECTRICAL CONTRACTOR AND EMS DRAWINGS FOR MORE INFORMATION.
12. RELATIVE HUMIDITY SENSOR MOUNTED ON WALL AT 7'-0" AFF. NOTE: REFER TO SIEMENS EMS DRAWINGS SET FOR ADDITIONAL INFORMATION.
13. THERMOSTAT MOUNTED ON WALL AT 4'-0" AFF. TO CONTROL DEFUSER.
14. THERMOSTAT MOUNTED ON WALL AT 4'-0" AFF. TO EXHAUST FAN.
15. EXTEND AND CONNECT NEW SUPPLY AIR BRANCH DUCT. SEE AS INDICATED ON PLAN INTO SUPPLY AIR DUCT MAIN PRIOR TO CONNECTING DEFUSER. INSTALL OPPOSED BLADE DAMPER BETWEEN BRANCH SUPPLY AIR DUCT TAKE-OFF AND DROP BOX DEFUSER.
16. CARBON DIOXIDE SENSOR MOUNTED ON WALL OR COLUMN AT 7'-0" AFF. REFER TO THE SIEMENS EMS DRAWING SET (EMS-1 THRU EMS-3) FOR MORE INFORMATION.

MECHANICAL PLAN
SCALE: 3/32" = 1'-0"

TONNAGE BREAKDOWN	
TOTAL TONNAGE	62.0
TOTAL SQUARE FOOTAGE	18,270
SQUARE FOOT/TON	348



HARBOR FREIGHT TOOLS
1460 EASTCHASE PKWY.
FORT WORTH, TX 76120

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MECHANICAL PLAN
DATE 05/13/22
JOB NO. 21374
M1.0
SHEET NO.

BELT ROOFTOP UNIT SCHEDULE (NO SUBSTITUTIONS ALLOWED)																			
TAG	LABEL TAG	MANUFACTURER MODEL NUMBER	NOMINAL TONnage	CFM	E.A.P. INCH	OUTDOOR AIR	HEATING CAPACITY				GROSS COOLING CAPACITY				ELECTRICAL DATA	REMARKS			
							1st STAGE (MBH)	2nd STAGE (MBH)	AFLUE (%)	EAT D5/MB	1st STAGE (MBH)	2nd STAGE (MBH)	SENERGIC (MBH)	DEFROST (MBH)			AMBIENT TEMP.	SHUT OFF VOLTAGE	MCA
RTU-01	XXXX-RTU-01	LENNOX LGH1204MHHC	12-1/2	5000	0.8"	1330	150-124.5	240-102	80	8067	116.1	85.6	12.0 EER 13.0 EER	100°F	3 HP 460V 3 PH	30	30	1400	SEE NOTES BELOW.
RTU-02	XXXX-RTU-02	LENNOX LGH1204MHHC	10	4000	0.8"	1043	150-124.5	240-102	80	8067	116.1	85.6	12.0 EER 13.0 EER	100°F	3 HP 460V 3 PH	25	30	1400	SEE NOTES BELOW.
RTU-03	XXXX-RTU-03	LENNOX LGH1204MHHC	10	4000	0.8"	1043	150-124.5	240-102	80	8067	116.1	85.6	12.0 EER 13.0 EER	100°F	3 HP 460V 3 PH	25	30	1400	SEE NOTES BELOW.
RTU-04	XXXX-RTU-04	LENNOX LGH1204MHHC	10	4000	0.8"	600	150-124.5	240-102	80	8067	116.1	85.6	12.0 EER 13.0 EER	100°F	3 HP 460V 3 PH	25	30	1400	SEE NOTES BELOW.
RTU-05	XXXX-RTU-05	LENNOX LGH1204MHHC	10	4000	0.8"	600	150-124.5	240-102	80	8067	116.1	85.6	12.0 EER 13.0 EER	100°F	3 HP 460V 3 PH	25	30	1400	SEE NOTES BELOW.

FURNISH WITH THE FOLLOWING:

- 14" HIGH PREFABRICATED INSULATED ROOF CURB BY MECHANICAL CONTRACTOR
- BAROMETRIC RELIEF DAMPERS
- HIGH PERFORMANCE ECONOMIZER 9-10% COMPLETE WITH FAULT DETECTOR AND DIAGNOSTICS SYSTEM (FDD)
- DIRTY FILTER SWITCH 2" MERV # 8 FILTERS
- BUNG AIR BARS BY MECHANICAL CONTRACTOR
- MSMV MULTI-STAGE REVOLVING SUPPLY AIR BLOWER
- FACTORY INSTALLED UNIT NON-USED DISCONNECT - WEATHERPROOF
- 14" HIGH PREFABRICATED INSULATED ROOF CURB BY MECHANICAL CONTRACTOR
- HINGED ACCESS PANELS
- HIGH AND LOW PRESSURE SWITCHES
- FREESTAT
- SERVICE VALVES
- COMBINATION VALVE COIL GUARD
- 14" HIGH PREFABRICATED INSULATED ROOF CURB BY MECHANICAL CONTRACTOR
- 4" STAR COMPRESSOR WARRANTY
- 12" GFCI-HAZARDOUS VOLTAGE DETECTED BY ELECTRICAL CONTRACTOR
- CURBS PLUS INCL. DROP DEFUSER SYSTEM
- 15" VFD 240V-0W-22
- ROOFTOP UNIT REMOTE SPACE TEMPERATURE SENSORS AND CARBON DIOXIDE SENSORS

NOTE: MECHANICAL CONTRACTOR SHALL PROVIDE REMOTE TEST STRIPING FOR DUCT DETECTORS. REFER TO MECHANICAL PLAN TAG NOTE #1 ON DWG. M10 FOR ADDITIONAL INFORMATION.

LENNOX CONTACT: Derek Gainer, LennoxNationalAccount@Lennox.com (972) 497-6392 LENNOX NATIONAL ACCOUNT TECH SUPPORT: (800) 367-6255 ext 2

GRILLE, REGISTER AND DIFFUSER SCHEDULE											
TAG	MANUFACTURER & MODEL NUMBER	CFM	AIR PATTERN	NECK SIZE	DAMPER	FRAME STYLE	PANEL SIZE	MAXIMUM INCH LEVEL	FINISH	MATERIAL	REMARKS
CD A	PRICE PFD2	AS NOTED	AS SHOWN	AS NOTED	OPPOSED BLADE	JAY-IN CEILING	24x24	30	WHITE POWDER COAT	STEEL	PROVIDE WITH WALL MOUNTED ROOM STAT TO CONTROL TEMPERATURE TO PROVIDE 100% CONTROL. TRANSFORMER, MC SHALL WIRE LOW VOLTAGE TESTS, PROVIDE WITH INSULATED BACKPANS.
CD B	PRICE SPD	AS NOTED	AS SHOWN	AS NOTED	OPPOSED BLADE	JAY-IN CEILING	24x24	30	WHITE POWDER COAT	STEEL	
CD C	PRICE SPD	AS NOTED	AS SHOWN	AS NOTED	OPPOSED BLADE	SURFACE MOUNTED	12x12	30	WHITE POWDER COAT	STEEL	
CD D	CURBS PLUS INCL. VFD 240V-0W-22	AS NOTED	4-WAY	24x24	-	EXPOSED	48x48	38	MIL. FINISH	STEEL	FURNISHED BY LENNOX AND INSTALLED BY THE MECHANICAL CONTRACTOR.
EG A	PRICE 535	AS NOTED	EXHAUST	AS NOTED	-	SURFACE MOUNTED	NECK SIZE 1-1/4"	30	WHITE POWDER COAT	STEEL	
TG A	PRICE 81	AS NOTED	TRANSFER	AS NOTED	-	JAY-IN CEILING	24x12	30	WHITE POWDER COAT	ALUMINUM	
TG B	PRICE 535	AS NOTED	TRANSFER	AS NOTED	-	SURFACE MOUNTED	NECK SIZE 1-1/4"	30	WHITE POWDER COAT	STEEL	

FAN SCHEDULE												
PLAN TAG	LABEL TAG	MANUFACTURER & MODEL NUMBER	AREA SERVED	SERVICE	CFM	ESP	WATTS & VOLTAGE	FAN RPM	FAN TYPE	MAX. SOUND LEVEL	WEIGHT (LBS)	REMARKS
EF-01	XXXX-EF-01	GREENHECK SP4V190	WOMEN'S RESTROOM	EXHAUST	100	2"	113 WATTS 120V/0	1400	CEILING MTL.	3/4 SONES	17	SEE NOTES 1 & 7 BELOW
EF-02	XXXX-EF-02	GREENHECK SP4V190	MEN'S RESTROOM	EXHAUST	100	2"	113 WATTS 120V/0	1400	CEILING MTL.	3/4 SONES	17	SEE NOTES 1 & 7 BELOW
EF-03	XXXX-EF-03	FANTECH FG 5	MANAGERS OFFICE	EXHAUST	250	2"	119 WATTS 120V/0	2500	IN-LINE		12	SEE NOTES 3 & 8 BELOW
EF-04	XXXX-EF-04	FANTECH FG 13	CASH OFFICE	EXHAUST	300	2"	139 WATTS 120V/0	3000	IN-LINE		12	SEE NOTES 3 & 8 BELOW

NOTES: PROVIDE WITH THE FOLLOWING ITEMS:

- DISCONNECT SWITCH
- GRAVITY BACKDRAFT DAMPER
- INTERNAL SPEED CONTROL SWITCH FOR BALANCING
- METAL CEILING GRILLE
- CONTROLLED BY LIGHT SWITCH (WHEN LIGHT SWITCHES ACTIVATED THE FAN WILL ENGAGE)
- 14" HIGH PREFAB ROOF CURB
- HANGING WITH NEOPRENE VIBRATION ISOLATORS
- LINE VOLTAGE (120V) COOLING ONLY THERMOSTAT TRIP STRIPS

VENTILATION AIR REQUIREMENT						
HVAC UNIT	AREA SERVED	OCCUPANT LOAD	REQUIRED VENTILATION	O.A. REQUIRED (CFM)	O.A. MIN. SUPPLIED (CFM)	REMARKS
RTU (D1)	SALES AREA 101	187 (10,880 SF)	7.5 CFM/PERSON 1/2 CFM/SF (L2)	3045	3133	PER TEXAS MECHANICAL CODE
RTU (D1)	RECEIVING/SALES REPRESENTATION AREA 104 & 105	6 (7,161 SF)	5 CFM/PERSON 1/2 CFM/SF (L2)	575	1118	PER TEXAS MECHANICAL CODE
RTU (D1)	CASH ROOM 103	1 (116 SF)	5 CFM/PERSON 1/2 CFM/SF (L2)	16	91	PER TEXAS MECHANICAL CODE
RTU (D1)	MANAGER OFFICE 102	1 (128 SF)	5 CFM/PERSON 1/2 CFM/SF (L2)	16	85	PER TEXAS MECHANICAL CODE
RTU (D1)	VESTIBULE 100	1 (97 SF)	2/6 CFM/SF (L2)	7	91	PER TEXAS MECHANICAL CODE
RTU (D1)	BREAK ROOM 105	6 (154 SF)	5 CFM/PERSON 1/2 CFM/SF (L2)	45	80	PER TEXAS MECHANICAL CODE
EF (D1)	WOMEN'S 107	1 V/C	73 CFM EXH/V/C	70 EXH	100 EXH	QUANTITIES ARE EXHAUSTED (11 CFM OF O.A. - RTU-04)
EF (D2)	MEN'S 108	1 V/C	73 CFM EXH/V/C	70 EXH	100 EXH	QUANTITIES ARE EXHAUSTED (11 CFM OF O.A. - RTU-04)

NOTE: TEXAS MECHANICAL CODE BREATHING ZONE OUTDOOR AIR FLOW (CFM) VIB = R_{PH} + R_{AL} x 1.25
WHERE:
R_{PH} = ZONE FLOOR AREA
R_{AL} = POPULATION
R_{PH} + TABLE 6.1 OUTDOOR AIR PER PERSON
R_{AL} + TABLE 6.1 OUTDOOR AIR PER AREA

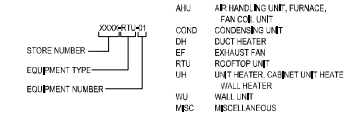
DUCTWORK SCHEDULE				
DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS	DUCT MATERIAL	INSULATION
EXPOSED SUPPLY AIR DUCTWORK	2" W.C.	B	GALVANIZED STEEL	REFER TO SPECIFICATIONS
CONCEALED SUPPLY AIR DUCTWORK	2" W.C.	B	GALVANIZED STEEL	2" DUCT WRAP
RETURN AIR DUCTWORK	1" W.C.	C	GALVANIZED STEEL	1" DUCT LINING
EXHAUST AIR DUCTWORK	1" W.C.	C	GALVANIZED STEEL	NONE

NOTE: ALL DUCTWORK SIZES ARE AIRWAY DIMENSIONS

LIGHTING AND HEATING SCHEDULE										
CONTROL ZONE	PARKING LOT (NOV/SECURITY) SECURITY SENSORS	EXTERIOR SENS. SECURITY SENSORS (EXTERIOR ALWAYS ON DURING DARK)	INDOOR LIGHTS (NOV/SEC)	INDOOR LIGHTS (NOV/SEC)	INTERIOR OPEN (NOV/SEC)	INTERIOR SENS. (NOV/SEC)	HEATING	COOLING	SUNGLASS	REMARKS
OR	DUSK (BY PHOTOCELL)	DUSK TO DAWN (PHOTOCELL) (ALWAYS ON DURING DARK)	7:00 AM	6:00 AM	STORE OPEN	STORE OPEN	68 DEGREES AT 7:00 AM	72 DEGREES AT 7:30 AM	SAME TEMPS AT 8:00 AM	
OFF	10:15 PM	DURING THE DAY	1:00 PM	4:00 PM	8:00 PM	8:30 PM	62 DEGREES AT 10:00 PM	78 DEGREES AT 10:00 PM	SAME TEMPS AT 8:00 PM	
LIGHTING CONTROL ZONE	GROUP 4	GROUP 3	GROUP 1	GROUP 1	GROUP 2	GROUP 2				

NOTES: THE SYSTEM CAN BE OVERRIDDEN BY THE SECURITY KEYPAD, COORDINATE ON/OFF TIMES WITH HARBOR FREIGHT PRIOR TO PROGRAMMING.

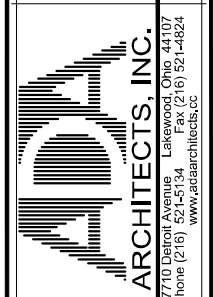
ASSET LABELING SCHEDULE		
PLAN TAG	LABEL TAG	DESCRIPTION LOCATION
RTU-01	XXXX-RTU-01	ROOFTOP UNIT SALES OFFICE/VESTIBULE AREA
RTU-02	XXXX-RTU-02	ROOFTOP UNIT SALES AREA
RTU-03	XXXX-RTU-03	ROOFTOP UNIT SALES AREA
RTU-04	XXXX-RTU-04	ROOFTOP UNIT SALES REP./BREAK ROOM AREA
RTU-05	XXXX-RTU-05	ROOFTOP UNIT RECEIVING AREA
EF-01	XXXX-EF-01	EXHAUST FAN WOMEN'S TOILET ROOM
EF-02	XXXX-EF-02	EXHAUST FAN MEN'S TOILET ROOM
EF-03	XXXX-EF-03	EXHAUST FAN MANAGERS OFFICE
EF-04	XXXX-EF-04	EXHAUST FAN CASH ROOM



NOTE: MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION PM TO ACQUIRE THE STORE NUMBER PRIOR TO LABELING THE EQUIPMENT. THE MECHANICAL CONTRACTOR SHALL UPDATE THE ASBUILT DRAWINGS WITH THE STORE NUMBER.

DIRECTIONS: MECHANICAL CONTRACTOR SHALL LABEL ALL EQUIPMENT SO THEY ARE VISIBLE FROM BELOW. EQUIPMENT SHALL BE IDENTIFIED WITH THE LABEL TAG AS INDICATED ABOVE. SPACE TEMPERATURE SENSORS AND THERMOSTATS SHALL BE IDENTIFIED WITH THE EQUIPMENT PLAN TAG THAT SERVES THEM. THERMOSTAT AND SENSOR LABELS ARE TO BE 1/4" TALL BLACK STICKERS AND AIR FLOW/EXHAUST FAN AND LINE HEATER (ALL TYPES) LABELS ARE TO BE 1/2" TALL BLACK STICKERS AND AIR FLOW/ROOFTOP EQUIPMENT LABELS ARE TO BE 1/4" TALL BLACK STICKERS AND AIR FLOW/CONCRETE DIFFUSER LABELS ARE TO BE 1/2" TALL BLACK STICKERS AND AIR FLOW/OTHER DIFFUSERS IN ENCLOSED SPACES ARE TO BE LABELED WITH THE RTU THAT SERVES THEM WITH 1/2" TALL BLACK STICKERS AND AIR FLOW.

NOTE: EXTERIOR LABELS MUST BE SUITABLE FOR WEATHER APPLICATIONS AND FINGER RESISTANT. EQUIPMENT LABELS SHALL BE MOUNTED NEXT TO THE UNIT MOUNTED DISCONNECT. IF THE UNIT DOES NOT HAVE A UNIT MOUNTED DISCONNECT, THEN PLACE ON THE MOST VISIBLE PLACE.



HARBOR FREIGHT TOOLS
1460 EASTCHASE PKWY.
FORT WORTH, TX 76120

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REVISIONS								
#	DATE	TYPE	1	2	3	4	5	6

MECHANICAL SCHEDULES

DATE 05/13/22
JOB NO. 21374
M1.1
SHEET NO.

