

MECHANICAL EQUIPMENT TAG NOTES:

- MECHANICAL CONTRACTOR SHALL REPLACE EXISTING 10 TON LENNOX ROOFTOP UNIT; MODEL NO. LGH120H8HG6 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.
- MECHANICAL CONTRACTOR SHALL REPLACE EXISTING 10 TON LENNOX ROOFTOP UNIT; MODEL NO. LGH120H8HG6 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.
- 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.
- 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, DIFFUSERS, 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:

- 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.
- PERFORM ALL WORK IN ACCORDANCE WITH THE RULES & REGULATIONS OF THE APPROPRIATE STATE AND LOCAL BUILDING CODES AND SUBTILES.
- 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.
- 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).
- 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.
- 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.

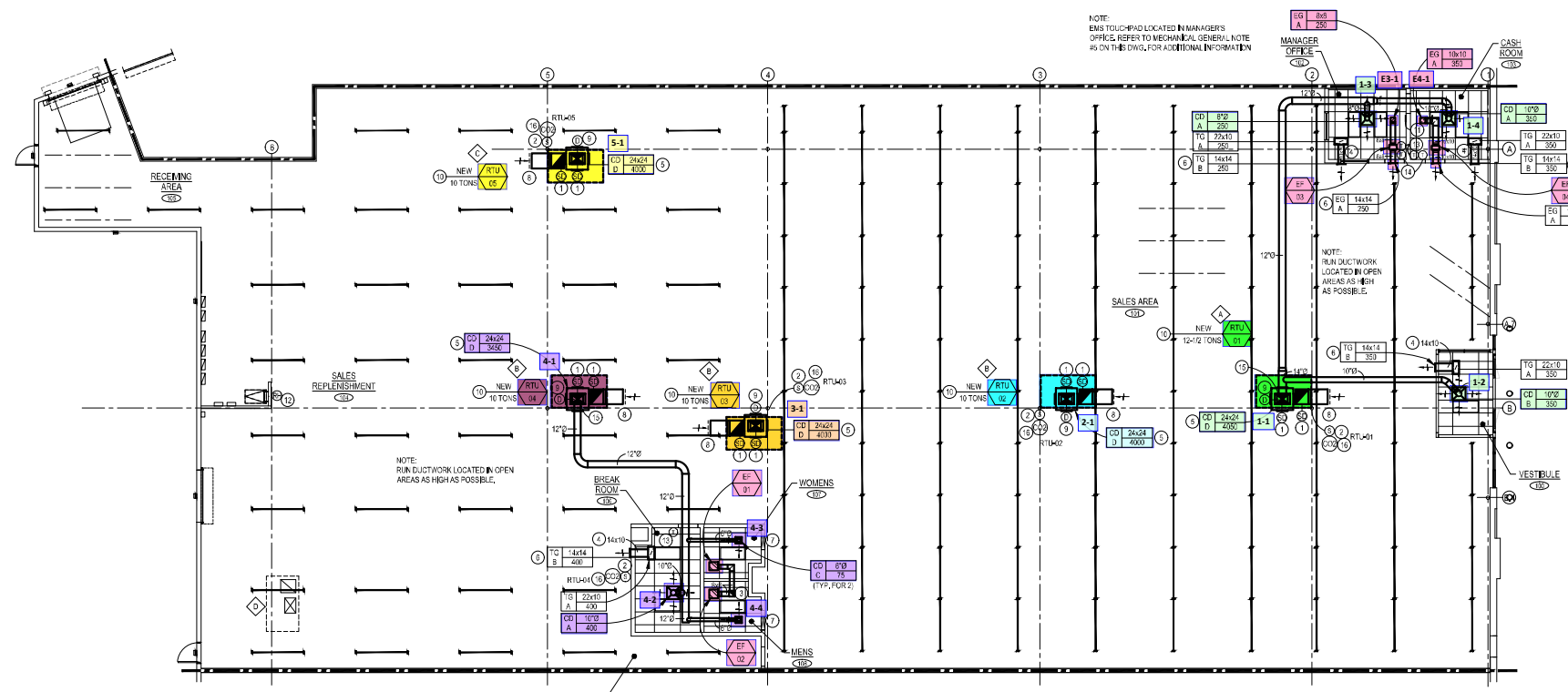
MECHANICAL GENERAL NOTES (CONTINUED):

- 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.
- MECHANICAL CONTRACTOR SHALL RUN ALL DUCTWORK AS HIGH AS POSSIBLE, MINIMUM OF 12'-0" AFF.
- 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.
- 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.
- 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 DIFFUSER
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

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MECHANICAL PLAN TAG NOTES:

- LENNOX SHALL FURNISH AND INSTALL SMOKE DETECTORS IN THE SUPPLY AND RETURN AIR DUCTS. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL WIRE-ROUNDED 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.
- SPACE TEMPERATURE SENSORS MOUNTED ON WALL OR COLUMN AT 7'-0" AFF.
- SMOKE EXHAUST AIR DUCT FIBER TUBING SHALL BE INSTALLED ABOVE ROOF CURBS TO GOOSENECK WITH BESSOREL. COORDINATE ROOF OPENING AND ROOFING REPAIR WITH LANDLORD AND LANDLORD'S ROOFING CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL TRANSFER AIR DUCT WITH 1" THICK ACOUSTIC LINING.
- 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 DIFFUSER DETAIL ON DWG. M1.2 FOR ADDITIONAL INFORMATION. OFFSET DROP DIFFUSER SYSTEM AS NECESSARY TO AVOID LIGHTS.
- 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" DIM. BOX BEHIND GRILLE. MECHANICAL CONTRACTOR SHALL EXTEND AND CONNECT TRANSFER OR EXHAUST AIR DUCT INTO BACK OF FLENUM BOX.
- 1" TOTAL FREE AREA BETWEEN FLOORING AND BOTTOM OF DOOR UNDERCUT DOOR BY GENERAL CONTRACTOR.
- EXTEND RETURN AIR DUCT FULL SIZE WITH ELBOW AS HIGH AS POSSIBLE. REFER TO RTU DROP BOX DIFFUSER DETAIL ON DWG. M1.2. COVER RETURN AIR DUCT OPENING WITH 1" WIRE MESH SCREEN. FURNISH AND INSTALL RETURN AIR DUCT WITH 1" THICK ACOUSTIC LINING.
- 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.
- ROOFTOP UNIT DIGITAL ZONE CONTROLLER. REFER TO THE SIEMENS EMS DRAWING SET (EMS-1 THRU EMS-3) FOR MORE INFORMATION.
- EMS TOUCHPAD. COORDINATE WITH ELECTRICAL CONTRACTOR AND EMS DRAWINGS FOR MORE INFORMATION.
- RELATIVE HUMIDITY SENSOR MOUNTED ON WALL AT 7'-0" AFF. NOTE: REFER TO SIEMENS EMS DRAWINGS SET FOR ADDITIONAL INFORMATION.
- THERMOSTAT MOUNTED ON WALL AT 4'-0" AFF. TO CONTROL DIFFUSER.
- THERMOSTAT MOUNTED ON WALL AT 4'-0" AFF. TO EXHAUST FAN.
- EXTEND AND CONNECT NEW SUPPLY AIR BRANCH DUCT. SEE AS INDICATED ON PLAN INTO SUPPLY AIR DUCT MAIN PRIOR TO CONNECTING DIFFUSER. INSTALL OPPOSED BLADE DAMPER BETWEEN BRANCH SUPPLY AIR DUCT TAKE-OFF AND DROP BOX DIFFUSER.
- 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	345

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MECHANICAL PLAN

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