

DUCTWORK SIZES / DIMENSIONS ARE GIVEN TO INDICATE CLEAR-SPACE INSIDE THE DUCT. DUCTWORK LOCATED ABOVE A CEILING SHALL HAVE A MINIMUM 1" INSULATION. SEE DETAILS ON SHEET M1.0 FOR OTHER INSULATION REQUIREMENTS. PROVIDE SOLID UNISTRUT SUPPORT (P1000) - NO EXCEPTIONS, FIELD DRILL THE NECESSARY HOLES AS REQUIRED, COORDINATE WITH OWNER.

EXP. EXPOSED ROUND DUCTWORK UP TO 26" DIAMETER IN SALES AREA SHALL BE 26 GAUGE. (FOR DUCTS OVER 26" DIAMETER, USE 24 GAUGE.) DUCTWORK SHALL BE SINGLE WALL, GALVANIZED STEEL, SPIRAL LOCKSEAM. FITTINGS SHALL BE SINGLE WALL GALVANIZED STEEL, STANDING SEAM OR SOLD WELDED CONSTRUCTION. ELBOWS SHALL BE STANDING SEAM, CORUGATED BOWLS, GRILLE COLLARS SHALL HAVE 4-SIDED SADDLE TAPS AND BE ATTACHED TO THE DUCTWORK WITH SELF-TAPPING STEEL METAL SCREWS, MINIMUM 10 ON EACH SIDE, AND DUCTTAPTE NEOPRENE GASKET TAPE OR APPROVED EQUAL. CAULK IS NOT ALLOWED. TO DUCT JOINTS SHALL BE MADE WITH THE SPIRAL SEAM ROTATED SO THAT THE STANDING SEAM FORMS A CONTINUOUS HELICAL PATTERN ACROSS THE JOINT.	6. MOUNT LIGHTSTAT REMOTE ROOM TEMPERATURE SENSOR ON PARTITION (NON-MIRRORRED SIDE WHERE APPLICABLE) AT 7'-0" ABOVE FINISH FLOOR AND 1'-0" FROM EDGE OF PARTITION. DO NOT MOUNT SENSORS ON MIRRORRED OR BRICKSTONE PARTITIONS.
2. ALL DUCTWORK AND FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS LATEST EDITION.	9. MOUNT CO2 SENSOR DIRECTLY ABOVE ROOM TEMPERATURE SENSOR. SEE KEYNOTE #8 FOR ADDITIONAL INFORMATION. SENSOR SHALL BE WIRED TO UNITS INDICED.
ALL EXPOSED DUCTWORK AND FITTINGS IN THE SALES AREA SHALL BE PROVIDED WITH A MILL PHOSPHORIZED FINISH ("PAINT GRIT", "ZINC GRIT", OR SIMILAR ETCH TREATMENT) TO ALLOW THE DUCTWORK TO BE PAINTED. ALL EXPOSED DUCTWORK, DIFFUSERS, GRILLES AND HANGERS SHALL BE PAINTED. PAINT SHALL NOT EXCEED A FLAME SPREAD OF 25 AND SMOKE DEVELOPMENT OF 50.	10. PROVIDE AND INSTALL LIGHTSTAT EPC CABINET WITH PRE-MOUNTED s-STAT THERMOSTATS IN THE EXISTING ELECTRICAL ROOM. COORDINATE LOCATION OF CABINET WITH OTHER EQUIPMENT/PLANS. PROVIDE AND INSTALL LIGHTSTAT REMOTE ROOM TEMPERATURE SENSORS ON SALES FLOOR AS SHOWN. PROVIDE AND INSTALL AT EACH ROOFTOP UNIT LIGHTSTAT SUPPLY AIR SENSORS MOUNTED ON DISCHARGE AIR WITH PROBE IN DISCHARGE AIR STREAM. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT FOR THERMOSTAT/SENSOR WIRES. REFER TO ELECTRICAL DRAWINGS FOR SENSOR/THERMOSTAT WIRE ROUTING. PERMANENTLY IDENTIFY EACH THERMOSTAT AND SENSOR WITH A PHENOLIC NAMEPLATE STATING RTU SERVED.
PRECAUTIONS SHALL BE TAKEN TO STORE DUCTWORK IN SUCH A MANNER AS TO MINIMIZE DENTS/DAMAGE. ALL VISIBLE DENTS SHALL BE REPAIRED.	LIGHTSTAT CONTACT INFO: ROBERT GALLAGHER LIGHTSTAT INC. 22 W. WEST HILL RD. PLEASANT VALLEY, CT 06065 TEL: 1-800-292-2444 EXT. 274; FAX 860-738-4123.
3. INSTALL SUPPLY AIR DUCTWORK WITH APPROXIMATELY 1/2" SPACE BETWEEN TOP OF LARGEST DIAMETER DUCTWORK AND UNDERSIDE OF JOIST/GIRDER. MAINTAIN CONSISTENT CENTERLINE THROUGHOUT DUCT MAIN. ALL DUCT TRANSITIONS SHALL BE MADE WITH CONCENTRIC FITTINGS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO INSTALLATION THAT DUCT MOUNTING HEIGHT DOES NOT POSE A CONFLICT WITH ANY STRUCTURAL ELEMENTS OR LIGHTING. TYPICAL OF ALL ROUND DUCTWORK IN SALES AREA.	11. EXISTING EXHAUST FAN (EF-1), DUCTWORK, GRILLES AND CONTROLS TO REMAIN. SEE DEMOLITION PLAN ON SHEET M1.0 FOR MORE INFORMATION.
4. CUT ROOF DECK THE SIZE OF THE SUPPLY AND RETURN DUCT OPENING. SUPPLY AND RETURN DUCTWORK UP TO RTU SHALL BE FULL SIZE OF RTU CURB DUCT OPENING. TRANSITION DUCT BELOW ROOF. THE REMAINING ROOF DECK AND INSULATION SHALL REMAIN BENEATH RTU WITHIN THE CONFINES OF THE RTU CURB.	12. EXISTING EXHAUST AIR DUCT TO REMAIN. RELOCATE IN NEW CEILING GRID. CONNECT TO EXISTING EXHAUST BRANCH DUCT AND BALANCE TO CFM LISTED.
5. ROUTE RETURN AIR DUCT FROM UNIT PER SECTION DIAGRAMS ON SHEET M1.0. TRANSITION AS REQUIRED FOR RTU-5 & 7. PROVIDE EXPANDED METAL MESH SCREEN WITH A MINIMUM OF 80% FREE AREA IN RETURN AIR DUCT OPENING.	13. NEW ROOFTOP UNIT ON EXISTING CURB. SEE SHEET M1.0 FOR MORE INFORMATION. IF UNITS OTHER THAN TRANE ARE UTILIZED, NEW UNITS WILL REQUIRE ADAPTER CURBS AND STRUCTURAL ANALYSIS. SEE RTU SCHEDULE ON SHEET M1.0 FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO FURNISH AND INSTALL SUPPLY AIR SMOKE DETECTORS (PROVIDE IN RETURN WHERE REQUIRED BY CODE - FIELD VERIFY). SMOKE DETECTOR SHALL DE-ACTIVATE RTU FAN UPON SENSING SMOKE AND SHALL BE TIED INTO BUILDING'S FIRE ALARM CONTROL PANEL WITH SUPERVISORY SIGNAL. WIRING BY CONTRACTOR. LOCATE SMOKE DETECTOR RESET IN ELECTRICAL ROOM WHEN ALLOWED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.	14. NEW ROOFTOP UNIT WITH CURB ADAPTER ON EXISTING CURB. SEE SHEET M1.0 FOR MORE INFORMATION. IF UNITS OTHER THAN TRANE ARE UTILIZED, NEW UNITS WILL REQUIRE STRUCTURAL ANALYSIS. SEE RTU SCHEDULE ON SHEET M1.0 FOR ADDITIONAL INFORMATION.
7. PROVIDE TEE WITH TURNING VANES AND VOLUME DAMPER IN EACH DIRECTION, AT BOTTOM OF DROP FROM UNIT. TRANSITION TO ROUND DUCT WITH A CONCENTRIC FITTING.	15. MOUNT NEW CO2 SENSOR 90° AFF. DO NOT MOUNT SENSORS ON MIRROR OR BRICK/STONE PARTITIONS. COORDINATE LOCATION WITH OWNER.
	16. PROVIDE ELBOWS TO DROP DUCT BRANCH AND ROUTE JUST ABOVE LAY-IN CEILING.



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