SYMBOLS LEGEND

EXHAUST AIR

THERMOSTAT

DRAWING NOTE

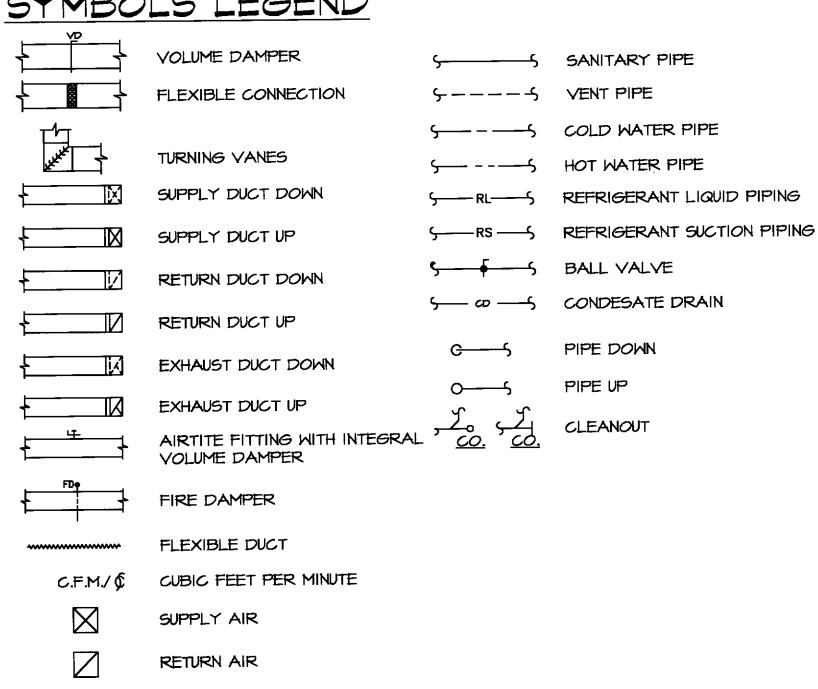
ELECTRONIC DAMPER

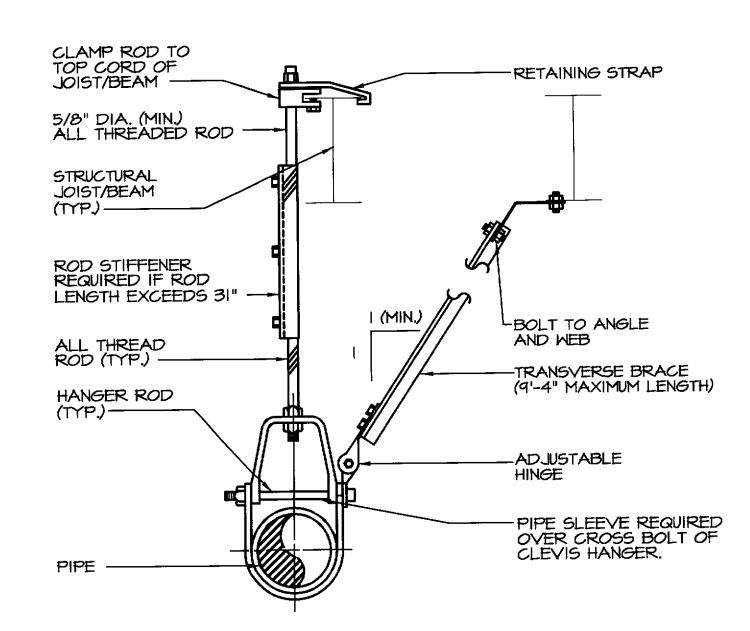
I" UNDERCUT DOOR

FAN DESIGNATION

ROOFTOP UNIT

DIRECTION OF AIR FLOW





SEISMIC PIPE SUPPORT DETAIL NO SCALE

GENERAL NOTES

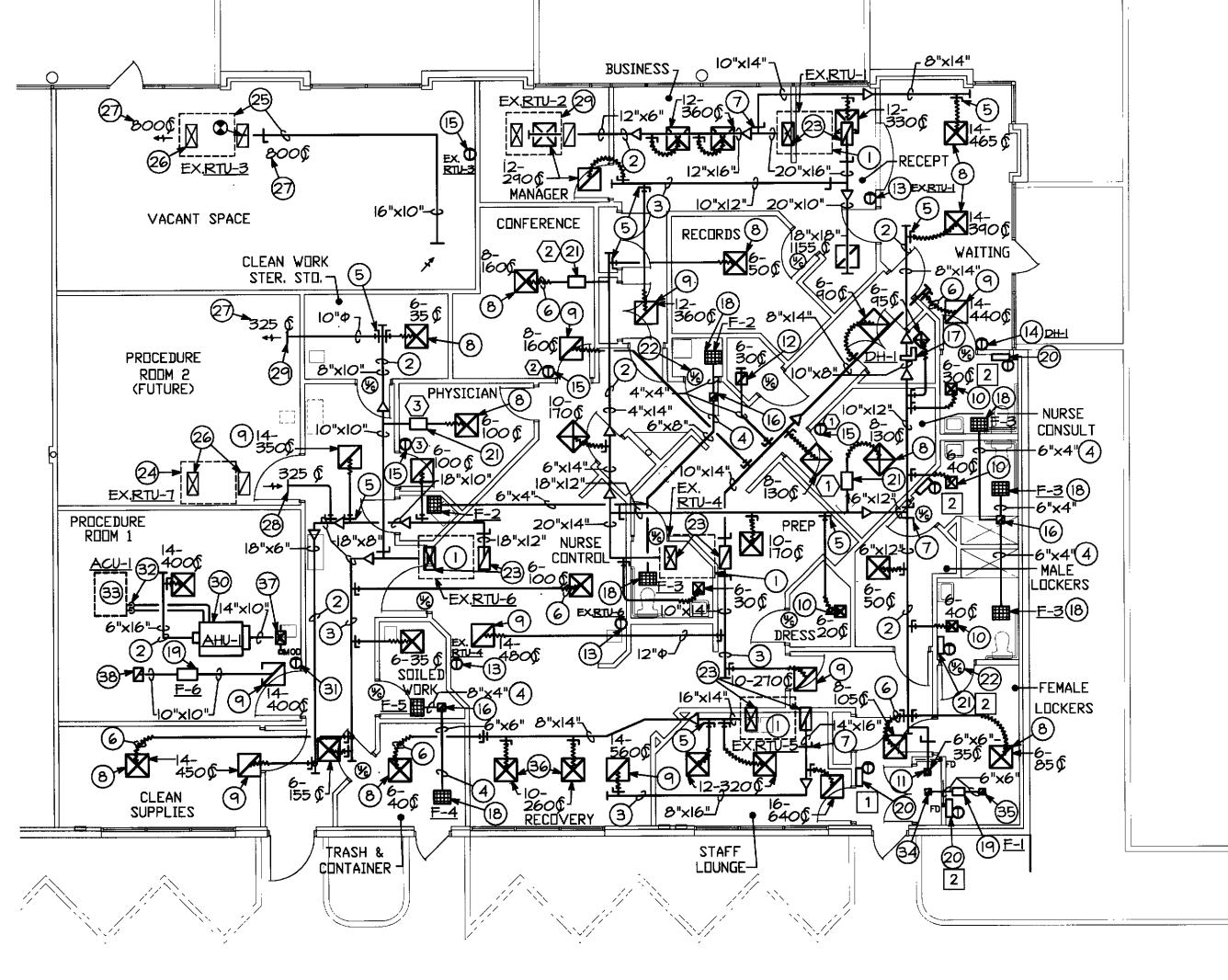
- I) ALL ITEMS INDICATED BOLD SHALL BE CONSIDERED NEW UNLESS OTHERWISE NOTED.
- 2) CONTRACTOR SHALL ENSURE ALL DUCTWORK IS PROPERLY SEALED, PATCHED AND MADE AIR!TOHT WHERE ANY DEMOLITION AND NEW WORK IS DONE. (TYPICAL ALL DUCTWORK).
- 3) ALL EXISTING THERMOSTATS, BEING RELOCATED, TO BE RECALIBRATED.
- 4) COORDINATE ALL THERMOSTAT LOCATIONS WITH FINAL PARTITION/FURNITURE
- 5) ANY ITEM NOT BEING REUSED SHALL BE TURNED OVER TO A BUILDING COORDINATOR FOR BUILDING STOCKPILE.
- 6) CONTRACTOR IS TO INSPECT EXISTING ROOFTOP EQUIPMENT SERVING THE REVISED TENANT LAYOUT AND CLEAN FILTERS, LUBRICATE MOTORS AND RECHARGE REFRIGERANT (AS NEEDED) TO OBTAIN MAXIMUM PERFORMANCE
- 7) ALL MANUFACTURES SHALL BE EQUAL TO THOSE INDICATED.
- 8) ALL AIR DEVICES AND THERMOSTATS SHALL BE STOCKPILED FOR REUSE EXCEPT FOR PERFORATED RETURN AIR DEVICES. CONTRACTOR TO TURNOVER PERFORATED RETURN AIR DEVICES TO A BUILDING REPRESENATIVE/OWNER FOR THEIR STOCKPILE.
- 9) CONTRACTOR TO FIELD VERIFY AND REMOVE EXISTING EXHAUST FANS, CONTROLS, DUCTWORK, ETC. WITHIN THE AREA OF WORK, CAP/SEAL ANY EXISTING EXHAUST DUCTWORK, WITHIN THE CEILING, TO THE OUTSIDE TO PREVENT THE MIGRATION OF UNTEMPERED OUTSIDE AIR AND RAIN.
- IO) CONTRACTOR TO FIELD INSPECT EXISTING ROOFTOP EQUIPMENT SERVING THE REVISED TENANT LAYOUT FOR PROPER OPERATION AND REPORT ANY COSTLY DEFICIENCIES TO THE OWNER.
- II) ANY CUTTING OR PATCHING OF THE ROOF TO BE DONE BY THE OWNER'S ROOFING CONTRACTOR.
- 12) CONTRACTOR TO INSTALL/SIZE AND TRAP REFRIGERANT PIPING PER MANUFACTUER'S RECOMMENDATIONS.

NOTICE TO CONTRACTORS:

ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS THAT DIFFERS FROM THAT SHOWN ON THIS PLAN SHALL BE REPORTED TO ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO SCOPE OF WORK WHICH RESULTS FROM CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID. SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.

MECHANICAL H.V.A.C DESIGN CRITERIA

- 1.0 OUTSIDE CONDITIONS
 - A. IOI DEGREES F. DB., SUMMER @ 68 DEGREES WB. B. 34 DEGREES F. DB., WINTER @ 285 DEGREES WB.
- 2.0 INSIDE CONDITIONS
 - A. 75 DEGREES F. DB., SUMMER (2 DEGREE F. DB.) @ 50% RELATIVE HUMIDITY
 - B. 10 DEGREES F. DB., WINTER (2 DEGREE F. DB.)
 - C. 68 DEGREES F. DB., WINTER/SUMMER (2 DEGREE F. DB.) FOR PROCEDURE ROOM
- 3.0 OCCUPANCY RATE
- A. ONE PERSON PER OFFICE/EXAM ROOM
- 4.0 VENTILATION RATE
- A. .20 C.F.M. PER SQ. FOOT
- 5.0 ELECTRICAL LOADS
- A. 350 WATTS PER P/C (I PERSON/I PC) B. LIGHTING 2 WATTS PER SQ. FOOT
- 6.0 BUILDING "U" VALVES
- A. ROOF .09
- B. EXTERIOR WALL .10
- C. GLASS .60 "U" VALUE
 - .75 SHADING COEFFICIENT

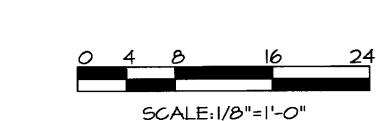


FLOOR PLAN-EXISTING CONDITIONS/ NEW WORK (HYAC) SCALE:1/8"=1'-0"

DRAWING NOTES

- (I) OUTLINE OF EXISTING ROOFTOP UNIT MOUNTED ON THE ROOF TO REMAIN. CONTRACTOR TO FIELD VERIFY, LOCATE AND REMOVE ALL ASSOCIATED AIR DEVICES AND EXISTING DUCTWORK UP TO POINT OF DUCT PENETRATION THROUGH THE ROOF.
- (2) SUPPLY AIR DUCTWORK SUPPORTED ABOVE CEILING (TYPICAL).
- (3) RETURN AIR DUCTWORK SUPPORTED ABOVE CEILING (TYPICAL).
- (4) EXHAUST AIR DUCTWORK SUPPORTED ABOVE CEILING (TYPICAL).
- (5) AIR-TITE FITTING WITH DAMPER AND ADHESIVE GASKET (TYPICAL).
- (6) INSULATED FLEXIBLE DUCTWORK SUPPORTED ABOVE CEILING (TYPICAL).
- (7) VOLUME DAMPER (TYPICAL).
- 8 NEWRELOCATED 24"x24" PERFORATED SUPPLY AIR DIFFUSER MOUNTED IN ACOUSTICAL TILE CEILING WITH NECK SIZE AND AIR VOLUME INDICATED
- 9 NEW 24"x24" RETURN AIR GRILLE (TITUS-25R) MOUNTED IN ACOUSTICAL TILE CEILING WITH NECK SIZE AIR VOLUME INDICATED (TYPICAL).
- NEW 12"x12" PERFORATED SUPPLY AIR DIFFUSER MOUNTED IN ACOUSTICAL TILE/DRYWALL CEILING WITH NECK SIZE AND AIR VOLUME INDICATED. PROVIDE TRIM PANELS FOR DRYWALL INSTALLATION (TYPICAL).
- DOUBLE DEFLECTION SIDEWALL SUPPLY AIR REGISTER MOUNTED IN DRYWALL CEILING WITH NECK SIZE AND AIR VOLUME INDICATED.
- RETURN AIR REGISTER MOUNTED IN DRYWALL CEILING WITH NECK SIZE AND AIR VOLUME INDICATED.
- RELOCATED THERMOSTAT TO BE MOUNTED ±5'-0" ABOVE FINISHED FLOOR ON WALL TO CONTROL ROOFTOP UNIT (TYPICAL).
- 14) THERMOSTAT TO BE MOUNTED ±5'-0" ABOVE FINISHED FLOOR ON WALL TO CONTROL ELECTRIC DUCT HEATER.
- THERMOSTAT TO BE MOUNTED 15'-O" ABOVE FINISHED FLOOR ON WALL TO CONTROL ELECTRONIC DAMPER (TYPICAL).
- (16) 8"x8" EXHAUST AIR DUCTWORK UP TO GOOSENECK ON ROOF.
- (17) ELECTRIC SLIP-IN DUCT HEATER. REFER TO SHEET M-5 FOR SIZE AND CAPACITY (TYPICAL).
- (B) CEILING MOUNTED EXHAUST FAN MOUNTED IN ACOUSTICAL TILE CEILING. REFER TO SHEET M-5 SIZE AND CAPACITY (TYPICAL).
- (19) IN-LINE EXHAUST FAN SUPPORTED ABOVE CEILING. REFER TO SHEET M-5 SIZE AND CAPACITY.
- ELECTRIC WALL MOUNTED HEATER WITH INTEGRAL THERMOSTAT. REFER TO SHEET M-5 FOR SIZE AND CAPACITY (TYPICAL).
- 2) ELECTRONIC VOLUME (SLAVE) DAMPER ABOVE CEILING. REFER TO SHEET M-5 FOR SIZE AND CAPACITY.
- (2) I" DOOR UNDERCUT. COORDINATE WITH ARCHITECT (TYPICAL).

- (3) CONTRACTOR TO ROUTE SUPPLY/RETURN AIR DUCTWORK UP TO EXISTING ROOFTOP UNIT DUCT TAPS JUST BELOW ROOF LINE AND MAKE CONNECTION. TRANSITION DUCTWORK AS REQUIRED TO UNIT CONNECTIONS. PROVIDE FLEXIBLE CONNECTION AT DUCTWORK CONNECTION TO UNIT.
- OUTLINE OF EXISTING ROOFTOP UNIT (EX.RTU-7) MOUNTED ON THE ROOF TO REMAIN. CONTRACTOR TO ABANDONED UNIT IN PLACE AND PUT THERMOSTAT TO LOWEST POSSIBLE SETTINGS FOR BOTH HEATING/COOLING AND MOUNT TO SIDE OF OPEN END RETURN DUCTWORK ABOVE CEILING.
- (25) OUTLINE OF EXISTING ROOFTOP UNIT MOUNTED ON THE ROOF TO REMAIN. CONTRCATOR TO ROUTE/SUPPORT RETURN AIR DUCTWORK FROM OPEN STRUCTURE ABOVE AND PROVIDE A 1/2"x1/2" WIRE MESH SCREEN OVER OPEN END DUCTHORK.
- PROVIDE A 1/2"x1/2" WIRE MESH SCREEN OVER OPEN SUPPLY END DUCTWORK
- 13'-0" BELOW ROOF LINE.
- (TYPICAL).
- OPEN END DUCTWORK THROUGH DEMISING WALL WITH 1/2"x1/2" WIRE MESH SCREEN OVER DUCT OPENING. DUCTWORK MOUNTED ±12'-0" ABOVE FINISHED FLOOR WITHIN OPEN STRUCTURE AREA.
- OUTLINE OF EXISTING ROOFTOP UNIT (EX.RTU-2) MOUNTED ON THE ROOF TO REMAIN. CONTRACTOR TO ABANDONED UNIT IN PLACE AND MOUNT ASSOCIATED THERMOSTAT TO SIDE OF OPEN END RETURN DUCTWORK ABOVE CEILING. THERMOSTAT TO BE TURNED TO THE OFF POSITION.
- (6) AIR HANDLING UNIT SUPPORTED FROM STRUCTURE ABOVE CEILING. REFER TO SHEET M-5 FOR SIZE AND CAPACITY.
- (3) THERMOSTAT MOUNTED ON WALL 15'-O" ABOVE FINISHED FLOOR TO
- CONTROL AIR HANDLING UNIT. THERMOSTAT BY DESERT AIRE. 32 ROUTE REFRIGERANT PIPING UP THROUGH PITCH POCKET FROM FAN COIL
- UNIT TO AIR COOLED CONDENSING UNIT MOUNTED ON ROOF.
- (3) OUTLINE OF REMOTE AIR COOLED CONDENSER UNIT MOUNTED ON ROOF. REFER TO SHEET M-5 FOR SIZE AND CAPACITY.
- (34) EXHAUST AIR REGISTER MOUNTED IN DRYWALL CEILING.
- 35) 8"x8" EXHAUST AIR DUCTWORK UP TO GOOSENECK ON ROOF.
- 24"x24" SUPPLY AIR DIFFUSER MOUNTED IN ACOUSTICAL TILE CEILING WITH NECK SIZE AND AIR VOLUME INDICATED AS MANUFACTURED BY PRICE, MODEL#LFDC WITH HE 95% (HEPA) FILTER.
- (37) 14"XIO" INTAKE AIR DUCTWORK UP TO GOOSENECK ON ROOF WITH MOTOR OPERATED DAMPER.
- (8) 10"X10" RELIEF AIR DUCTWORK UP TO GOOSENECK ON ROOF.



DESCRIPTION REV# DATE



DON PENN CONSULTING ENGINEERS 3950 HIGHWAY 360, SUITE 101 GRAPEVINE, TEXAS 76051 817-410-2858 FAX 817-251-8411

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TENANT RENOVATIONS FOR: RMS LIFE LINE RIVERSIDE, CALIFORNIA

9/11/01 AS NOTED DLI SHEET 1 DF 5 FVA JOB NUMBER 2011215.00 JLR# 1-100a