



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

MECAHNICAL H.V.A.C DESIGN CRITERIA

- 1.0 OUTSIDE CONDITIONS
 - A. 95 DEGREES F. DB, SUMMER • 78 DEGREES WB.
 - B. 0 DEGREES F. DB, WINTER
- 2.0 INSIDE CONDITIONS
 - A. 75 DEGREES F. DB, SUMMER (2 DEGREE F. DB) • 50% RELATIVE HUMIDITY
 - B. 70 DEGREES F. DB, WINTER (2 DEGREE F. DB)
 - C. 68 DEGREES F. DB, WINTER/SUMMER (2 DEGREE F. DB) FOR PROCEDURE AND OBSERVATION AREAS
- 3.0 OCCUPANCY RATE
 - A. ONE PERSON PER OFFICE/EXAM ROOM
- 4.0 VENTILATION RATE
 - A. 20 C.F.M. PER PERSON

- 5.0 ELECTRICAL LOADS
 - A. 350 WATTS PER P/C (1 PERSON/ 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
 - .80 SHADING COEFFICIENT

DRAWING NOTES

- ① EXISTING HORIZONTAL HEAT PUMP SUPPORTED FROM STRUCTURE ABOVE CEILING TO REMAIN. REFER TO SHEET M-5 FOR SIZE AND CAPACITY.
- ② EXISTING SUPPLY AIR DUCTWORK MOUNTED FROM STRUCTURE ABOVE CEILING TO REMAIN (TYPICAL).
- ③ SUPPLY AIR DUCTWORK MOUNTED FROM STRUCTURE ABOVE CEILING (TYPICAL).
- ④ 1" SOUNDLINED RETURN AIR DUCTWORK MOUNTED FROM STRUCTURE ABOVE CEILING. CONTRACTOR TO PROVIDE 1" AIR FILTER WITH FULL ACCESS (TYPICAL). EXCEPT FOR HEAT PUMP UNIT #4; NO SOUNDLINING REQUIRED.
- ⑤ OUTSIDE AIR DUCTWORK MOUNTED FROM STRUCTURE ABOVE CEILING (TYPICAL).
- ⑥ EXHAUST AIR DUCTWORK MOUNTED FROM STRUCTURE ABOVE CEILING (TYPICAL).
- ⑦ CONTRACTOR TO FIELD LOCATE AND CONNECT EXISTING EXHAUST/OUTSIDE AIR DUCT TAPS TO NEW EXHAUST DUCTWORK ABOVE CEILING AS INDICATED (TYPICAL).
- ⑧ 24"x24" VANE SUPPLY AIR DIFFUSER MOUNTED IN ACOUSTICAL CEILING TILE WITH NECK SIZE AND AIR VOLUME INDICATED (TYPICAL).
- ⑨ 12"x12" VANE SUPPLY AIR DIFFUSER MOUNTED IN ACOUSTICAL CEILING TILE WITH NECK SIZE AND AIR VOLUME INDICATED (TYPICAL).
- ⑩ 24"x24" CEILING RETURN AIR REGISTER MOUNTED IN ACOUSTICAL CEILING TILE WITH NECK SIZE AND AIR VOLUME INDICATED (TYPICAL).
- ⑪ EXHAUST AIR REGISTER MOUNTED IN DRYWALL CEILING WITH NECK SIZE AND AIR VOLUME INDICATED (TYPICAL).
- ⑫ 24"x24" PERFORATED SUPPLY AIR DIFFUSER MOUNTED IN ACOUSTICAL CEILING TILE WITH NECK SIZE AND AIR VOLUME INDICATED (TYPICAL).
- ⑬ PROVIDE BRICK VENT INTAKE LOUVER AS MANUFACTURED BY COOK, MODEL BVS IN EXTERIOR WALL WITH FULL SIZE PLENUM THROUGH THE WALL. EXTEND OUTSIDE AIR DUCTWORK AND CONNECT AS INDICATED.
- ⑭ ELECTRONIC ZONE DAMPER ABOVE CEILING. REFER TO SHEET M-5 FOR BALANCING INFORMATION (TYPICAL).
- ⑮ THERMOSTAT TO BE MOUNTED 45'-0" ABOVE FINISHED FLOOR ON WALL TO CONTROL ELECTRONIC DAMPER (TYPICAL).
- ⑯ THERMOSTAT TO BE MOUNTED 45'-0" ABOVE FINISHED FLOOR ON WALL TO CONTROL EXISTING HEAT PUMP (TYPICAL).
- ⑰ THERMOSTAT TO BE MOUNTED 45'-0" ABOVE FINISHED FLOOR ON WALL TO CONTROL ELECTRIC DUCT HEATING COIL.
- ⑱ AIR-TITE FITTINGS (TYPICAL).
- ⑲ 1" DOOR UNDERCUT. COORDINATE WITH ARCHITECT.
- ⑳ MOTOR OPERATED DAMPER (TYPICAL).
- ㉑ VOLUME DAMPER (TYPICAL).
- ㉒ BACKDRAFT DAMPER (TYPICAL).
- ㉓ 24"x24" AIR TRANSFER GRILLE WITH 22"x22" PLENUM BOX ABOVE AIR DEVICE FOR FLEXIBLE DUCT CONNECTION (TYPICAL).
- ㉔ CEILING MOUNTED EXHAUST FAN SUPPORTED FROM STRUCTURE ABOVE. REFER TO SHEET M-5 FOR SIZE AND CAPACITY.
- ㉕ IN-LINE EXHAUST FAN SUPPORTED FROM STRUCTURE IN CEILING. REFER TO SHEET M-5 FOR SIZE AND CAPACITY.
- ㉖ GALVANIZED WALL CAP AS MANUFACTURED BY COOK, (LITTLE GEM) MODEL WCG-1.
- ㉗ WALL MOUNTED/RECESSED ELECTRIC WALL HEATER WITH INTEGRAL THERMOSTAT. REFER TO SHEET M-5 FOR SIZE AND CAPACITY.
- ㉘ INSULATED FLEXIBLE DUCT. MAXIMUM 8'-0" LENGTH (TYPICAL).
- ㉙ 8"x6" AIR TRANSFER GRILLE WITH 8"x4" DUCT CONNECTION ABOVE CEILING.
- ㉚ FIRE DAMPER IN DRYWALL CEILING (TYPICAL).
- ㉛ 6"x6" SUPPLY AIR GRILLE MOUNTED IN DRYWALL CEILING WITH NECK SIZE AND AIR VOLUME INDICATED.
- ㉜ EXISTING DUCTWORK RELOCATED TO AVOID NEW TENANT PARTITION WALL.
- ㉝ ELECTRONIC BYPASS DAMPER ABOVE CEILING. REFER TO SHEET M-4 FOR BALANCING INFORMATION (TYPICAL).
- ㉞ IN-LINE VENTILATION FAN SUPPORTED FROM STRUCTURE IN CEILING. REFER TO SHEET M-5 FOR SIZE AND CAPACITY.
- ㉟ 8"x6" SUPPLY AIR GRILLE MOUNTED IN DRYWALL CEILING WITH NECK SIZE AND AIR VOLUME INDICATED.

0 4 8 16 24
SCALE: 1/8"=1'-0"

REV#	DATE	DESCRIPTION

**MECHANICAL & ELECTRICAL
DESIGN CONSULTANTS, INC.**
1401 N. Fountain Green Road
Bel Air, MD 21039-1411
OFFICE 410-843-2822
Fax 410-803-0442
jrdesign@starpower.net

FREDRICK WARD ASSOCIATES, INC.
ENGINEERS
P.O. Box 727, 5 South Main Street Bel Air, Maryland 21014-0727
Architects
Phone: 410-879-2090 or 410-836-7900 Fax: 410-893-1243
SURVEYORS
Columbia, Maryland Warrenton, Virginia

TENANT RENOVATIONS FOR:
RMS LIFE LINE
2405 YORK ROAD
TIMONIUM, MARYLAND 21089

DATE
10/10/00
SCALE
AS NOTED
DESIGNED BY
GWR/DLI
DRAWN BY
DLI
PROJECT
2001216.00
JLR# 20136A