McDAVID ENGINEERING MECHANICAL & ELECTRICAL **ENGINEERING CONSULTANTS**

NOTES:

DUCT SIZES SHOWN ARE SHEET-METAL DIMENSIONS, w/ ALLOWANCE FOR LINER INCLUDED.

SECURE LINER WITH WELDED MECHANICAL PIN FASTENERS AT 8 INCHES O. C., BOTH WAYS.

RUN DUCTS IN SPACE ABOVE LAY-IN CEILING. HOLD DUCT TIGHT TO GYP. BOARD APPLIED TO UNDERSIDE

SOUND LINE TRUNK DUCTS WITH 1/2 INCH THICKNESS OF FIBERGLASS DUCT LINER WITH ANTI-MICROBIAL INNER LINER. COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

SEAL EDGES OF LINER WHERE IT HAS BEEN CUT WITH MASTIC OR DUCT BUTTER, TO ELIMINATE FRAYING OF LINER AND TO KEEP CONTAMINATES OUT OF THE LINER.

AIR GUIDE DIFFUSERS & GRILLES ARE THE BASIS OF DESIGN. DO NOT SUBSTITUTE "HIGH" CAPACITY DIFFUSERS

ALTERNATE MANUFACTURERS ARE ACCEPTABLE, PROVIDED THAT THE SAME STYLE OF DIFFUSER IS USED.

BALANCE AIR DISTRIBUTION SYSTEM TO -10% TO +20% OF AIRFLOW INDICATED ON DRAWINGS, USING ALNOR BALOMETER (HOOD), OR EQUAL BY SHORTRIDGE. SET BLOWER TO LOWEST SPEED THAT SATISFIES AIRFLOW

WHERE THE ENTIRE LAY-IN PANEL IS OCCUPIED BY THE LOUVER FACE OF THE DIFFUSER. TITUS, METAL-AIRE, KRUEGER, E. C. PRICE, TUTTLE & BAILEY, HART & COOLEY AND LIMA MAKE THE STYLE THAT HAS BEEN SPECIFIED.

BRANCH DUCTS SHALL HAVE 1-1/2" FIBERGLASS INSULATION APPLIED TO OUTSIDE OF METAL DUCTS.

BRANCH DUCT TAPS SHALL BE HIGH EFFICIENCY "BOOT" TYPE, w/ 45 DEGREE LEADING EDGE FOR BOTH SUPPLY & RETURN DUCTS. REFER TO TAP DETAIL ON DRAWING M-2.

WORK SHALL COMPLY WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE.

ADHERE DUCT LINER TO DUCT WITH ADHESIVE APPLIED AT 75% COVERAGE.

RUN CONDENSATE DRAIN DOWN IN EXTERIOR WALL TO DISCHARGE AT +6" AFG.

REQUIREMENTS. SUBMIT REPORT TO OWNER.

OF ROOF TRUSSES. RUN OUTSIDE AIR INTAKE AND EXHAUST DUCTS IN ATTIC.

HARRISONBURG, VIRGINIA 22801 e-mail: fred@fastaz.net

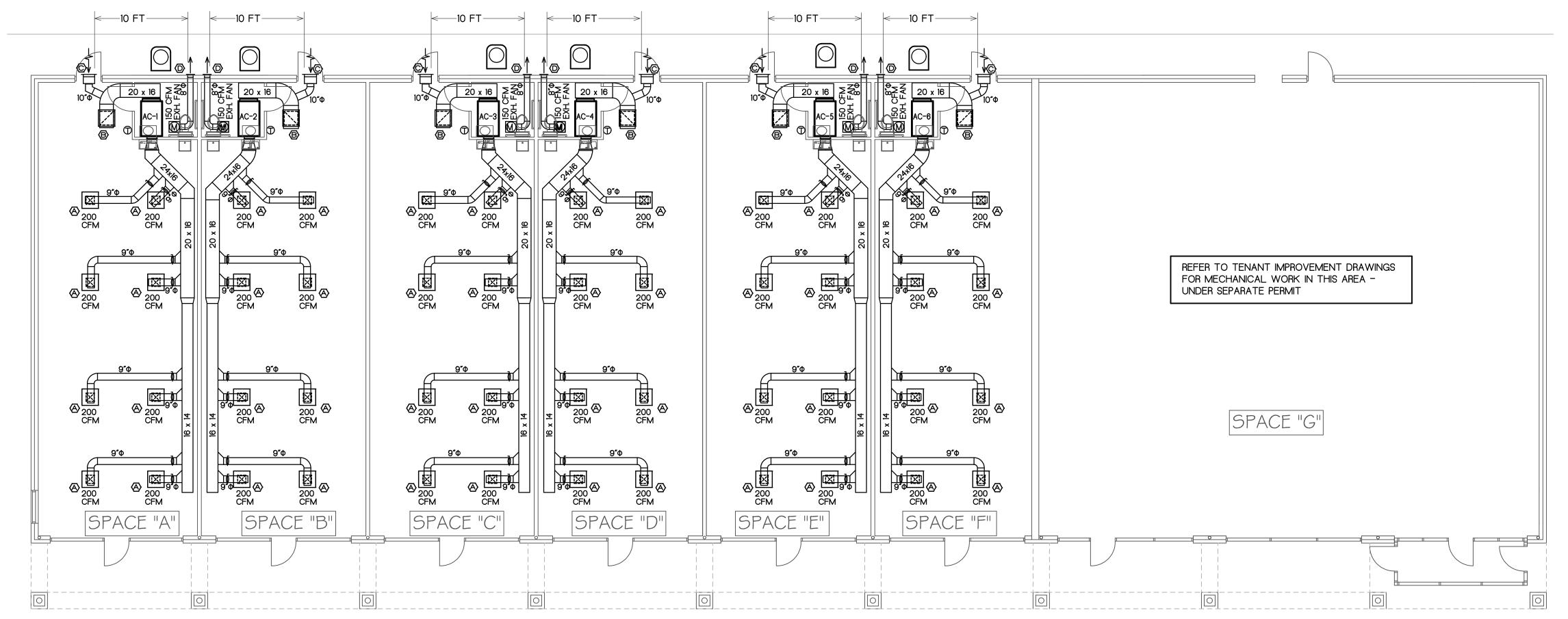
BURGER JOHN

VISIONS DEC 06 RE II

DATE: 24 MAY 06 JOB NO.: 0607 SHEET NO.:

11 OF 14 SHEETS

VENTILATION REQUIREMENTS: 1052 SF - RETAIL SALES FLOOR AT 0.30 CFM/SF = 316 CFM



MECHANICAL FLOOR PLAN SCALE: 1/8" = 1' - 0"

GRILLES - REGISTERS - DIFFUSERS & VENTS							
TYPE	DESCRIPTION	NECK	FRAME	FINISH	O.B.D.	MFR - MODEL	REMARKS
\triangle	CEILING DIFFUSER	9 x 9	24 x 24 LAY-IN	WHITE	YES	AIR GUIDE AVP-OB-PLT	
₿	RETURN AIR GRILLE	22 x 22	24 x 24 LAY-IN	WHITE	NO	AIR GUIDE RA-T	
©	OUTSIDE AIR INTAKE VENT	16 x 8	FLANGE	WHITE	NO	SYLRO SUNVENT FL-168	
0	EXHAUST VENT	8 x 8	FLANGE	WHITE	NO	SYLRO SUNVENT FL-808	

EQUIPMENT LIST:

AC-1 THROUGH AC-6

EXH. FANS

SPLIT-SYSTEM HEAT PUMP w/20 kW AUX. ELECTRIC HEAT AND SEER > 10 208 VOLT, 3 PHASE, 60 Hz. DESIGN BASED UPON CARRIER FC4C-048 w/ THERMAL EXPANSION VALVE AND 38-YCC-048-501

THERMOSTAT SHALL BE PROGRAMMABLE, 7 DAY, AUTO-CHANGE-OVER ELECTRONIC TYPE w/ AUX. CONTACTS TO OPEN OUTSIDE AIR VENT DAMPER DURING "OCCUPIED" MODE.

ACCEPTABLE MFRS: CARRIER, TRANE OR YORK

CENTRIFUGAL CEILING EXHAUSTER, 150 CFM AT 0.25 INCHES S.P. BROAN LO-SONE L-150 OR EQUAL BY ACME, GREENHECK OR PENN