

SINGLE & DUAL DUCT VAV TERMINAL SCHEDULE								
TAG	INLET SIZE		COOLING CFM (MAX)	MINIMUM MIXED CFM	HEATING CFM	MAX. PRESSURE DROP THRU TERMINAL	TITUS MODEL NO.	NOTES:
	COLD	HOT						
DDVAV 2-1	9"	9"	600	600	600	0.18	DEDV	①
DDVAV 2-2	7"	7"	300	300	300	0.16	DEDV	①
DDVAV 2-3	7"	7"	300	300	300	0.16	DEDV	①
DDVAV 2-4	8"	8"	500	500	500	0.36	DEDV	①
DDVAV 2-5	7"	7"	300	300	300	0.16	DEDV	①
DDVAV 2-6	7"	7"	300	300	300	0.16	DEDV	①
DDVAV 2-7 (TYP.)	12"	9"	1200	800	1000	0.26	DEDV	①
DDVAV 2-8	14"	9"	1500	750	750	0.19	DEDV	①
DDVAV 2-9	12"	9"	1400	700	700	0.36	DEDV	①
DDVAV 2-10	12"	8"	1080	540	540	0.21	DEDV	①
DDVAV 2-11 (TYP.)	4"	4"	130	130	130	0.25	DEDV	①
DDVAV 2-12	12"	8"	1100	550	550	0.22	DEDV	①
DDVAV 2-13	10"	10"	1000	500	800	0.42	DEDV	①
DDVAV 2-14 (TYP.)	5"	5"	250	130	250	0.29	DEDV	①
DDVAV 2-15 (TYP.)	5"	5"	200	130	200	0.19	DEDV	①
DDVAV 2-16	7"	7"	480	160	480	0.41	DEDV	①
DDVAV 2-17	7"	7"	360	130	360	0.23	DEDV	①
DDVAV 2-18	9"	9"	810	405	810	0.32	DEDV	①
SDVAV 2-1 (TYP.)	5"	-	350	175	0	0.15	DES	①
SDVAV 2-2 (TYP.)	10"	-	1050	525	0	0.14	DES	①
SDVAV 2-3 (TYP.)	9"	-	800	400	0	0.14	DES	①
SDVAV 2-4	10"	-	1225	610	0	0.19	DES	①
SDVAV 2-5	7"	-	525	270	0	0.15	DES	①
SDVAV 2-6	8"	-	700	500	0	0.16	DES	①
SDVAV 2-7	10"	-	1200	800	0	0.18	DES	①
SDVAV 2-8	9"	-	975	650	0	0.21	DES	①

NOTES: ① PROVIDE ATTENUATOR

EXISTING SINGLE DUCT VARIABLE VOLUME UNIT SCHEDULE ①				
EXISTING DUAL DUCT VARIABLE VOLUME UNIT	MAX. COOLING CFM	MAX. HEATING CFM	TYPICAL UNIT MFG & MODEL NO.	NOTES:
(E) VAV H2-16	-	300		
(E) VAV H2-17	-	300		
(E) C2-1	630	-		
(E) C2-3	600	-		
(E) C2-5	600	-		
(E) C2-7	650	-		
(E) C2-10	640	-		
(E) C2-12	650	-		
(E) C2-18	560	-		
(E) C2-19	1485	-		
(E) C2-20	630	-		
(E) C2-21	600	-		
(E) C2-23	600	-		
(E) C2-25	650	-		
(E) C2-28	650	-		
(E) C2-30	640	-		
(E) C2-35	560	-		
(E) C2-36	1485	-		
(E) VAV C2-37	300	-		
(E) VAV C2-38	400	-		
(E) VAV C2-39	400	-		
(E) VAV C2-40	300	-		
(E) DDAV-2-4	500	500		
(E) DDAV-2-5	300	300		
(E) DDAV-2-4	300	300		

NOTES: ① REBALANCE EXISTING BOXES.

SPECIFICATIONS & NOTES:

CONTRACTOR SHALL VISIT THE SITE TO DETERMINE PRE-EXISTING CONDITIONS AND ALL WORK NECESSARY, PRIOR TO BIDDING. VERIFY ALL MEASUREMENTS AND EXISTING CONDITIONS IN THE FIELD. GENERAL SCHEMATIC LAYOUT IS INDICATED, ALL OFFSETS, OBSTRUCTIONS, AND EXISTING CONFIGURATIONS AND CONSTRAINTS MUST BE FIELD VERIFIED.

OBTAIN NECESSARY PERMITS AND PAY ASSOCIATED FEES.

COORDINATE ANY SERVICE DISRUPTIONS WITH THE OWNER.

INSTALL ALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, ALL LOCAL CODES AND STANDARDS, AND UNIM PROVIDENT REQUIREMENTS.

DRAWINGS ARE DIAGRAMMATIC ONLY; FIELD-VERIFY ALL EXISTING CONDITIONS. COORDINATE INSTALLATIONS WITH OTHER TRADES.

THE INTENTION OF THESE CONTRACT DOCUMENTS IS TO CALL FOR FINISHED WORK, FULLY TESTED AND READY FOR OPERATION. ANY COMPONENTS OR LABOR NOT MENTIONED IN THE CONTRACT DOCUMENTS BUT REQUIRED FOR FUNCTIONING SYSTEMS SHALL BE PROVIDED. SHOULD THERE APPEAR TO BE ANY DISCREPANCIES OR QUESTIONS OF INTENT, THE CONTRACTOR SHALL REFER THE MATTER TO THE ARCHITECT FOR DECISION BEFORE START OF ANY RELATED WORK.

PERFORM WORK IN ACCORDANCE WITH LOCAL CODES.

SEAL ALL DUCT AND PIPE PENETRATIONS WITH FIRE SEALANT.

OBSERVE THE OWNER'S CLEANLINESS PROTOCOLS.

METAL DUCTWORK
GALVANIZED STEEL DUCTWORK: ASTM A653 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, AND G90 ZINC COATING. ALL DUCTWORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. CONSTRUCT DUCT SYSTEMS SO THAT LEAKAGE DOES NOT EXCEED ONE PERCENT OF THE TOTAL AIR QUANTITIES. SEAL ALL DUCT JOINTS WITH GASKETED CONNECTIONS, DUCTMATE, OR EQUAL.

DUCTWORK PRESSURE/SEAL CLASS.
SUPPLY DUCTWORK UPSTREAM OF DUAL DUCT VAV TERMINAL UNITS: 6 INCH/CLASS A
SUPPLY DUCTWORK DOWNSTREAM OF DUAL DUCT VAV TERMINAL UNITS: 2 INCH/CLASS C.

INSULATE DUCTWORK WITH 1-1/2" F.G. BLANKET WITH VAPOR BARRIER JACKET EQUAL TO SCHULLER MICOLITE TYPE 75, ASTM C533, WITH FSK FACING.

PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS.

SPECIFICATIONS & NOTES: (CONT)

INSULATED FLEXIBLE DUCTS
ALUMINUM LAMINATE AND POLYESTER FILM WITH LATEX ADHESIVE SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE, FIBERGLASS INSULATION, POLYETHYLENE VAPOR BARRIER FILM. R-VALUE = 4.2, UL 181, CLASS 1. MAXIMUM LENGTH: 5 FEET.

SINGLE DUCT VAV TERMINAL UNITS
DESIGN IS BASED ON TITUS SINGLE DUCT AIR VOLUME TERMINALS. PROVIDE TERMINALS OF SIZES AND CAPACITIES SHOWN IN THE SCHEDULES.

TERMINAL CASING SHALL BE MINIMUM 22 GAUGE GALVANIZED STEEL INTERNALLY LINED WITH FIBRE-FREE ENGINEERED POLYMER FOAM INSULATION WHICH COMPLIES TO UL 181 AND NFPA 90A. THE INSULATION SHALL BE MECHANICALLY FASTENED TO THE UNIT CASING.

PROVIDE SOUND ATTENUATOR.

PROVIDE 120 VOLT/24 VOLT CONTROL TRANSFORMER WITH EACH TERMINAL.

DUAL DUCT VAV TERMINAL UNITS
DESIGN IS BASED ON TITUS DUAL DUCT AIR VOLUME TERMINALS. PROVIDE TERMINALS OF SIZES AND CAPACITIES SHOWN IN THE SCHEDULES.

THE TERMINAL CASING SHALL BE MINIMUM 22 GAUGE GALVANIZED STEEL INTERNALLY LINED WITH FIBRE-FREE ENGINEERED POLYMER FOAM INSULATION WHICH COMPLIES TO UL 181 AND NFPA 90A. THE INSULATION SHALL BE MECHANICALLY FASTENED TO THE UNIT CASING.

UNIT SHALL INCLUDE A MIXER-ATTENUATOR SECTION AS AN INTEGRAL PART OF THE TERMINAL MINIMIZE DOWNSTREAM STRATIFICATION.

COOLING AND HEATING INLETS SHALL HAVE SEPARATE DAMPER ASSEMBLIES FOR COMPLETE PRESSURE INDEPENDENT CONTROL OF EACH AIRSTREAM FOR VARIABLE OR CONSTANT VOLUME TOTAL DISCHARGE APPLICATIONS. TERMINALS WITH INLET DAMPERS MECHANICALLY INTERCONNECTED ARE NOT ACCEPTABLE. THE DAMPERS SHALL BE HEAVY GAUGE STEEL WITH SOLID SHAFT ROTATING IN SELF-LUBRICATING BEARINGS.

PROVIDE 120 VOLT/24 VOLT CONTROL TRANSFORMER WITH EACH TERMINAL.

AUTOMATIC TEMPERATURE CONTROLS
EXTEND THE EXISTING AND/OVER CONTROL SYSTEM TO SERVE THE RENOVATED AREA. ALL NEW CONTROLS SHALL BE ELECTRONIC/DDC.

PROVIDE COMPLETE CONTROLS FOR VAV TERMINAL UNITS.

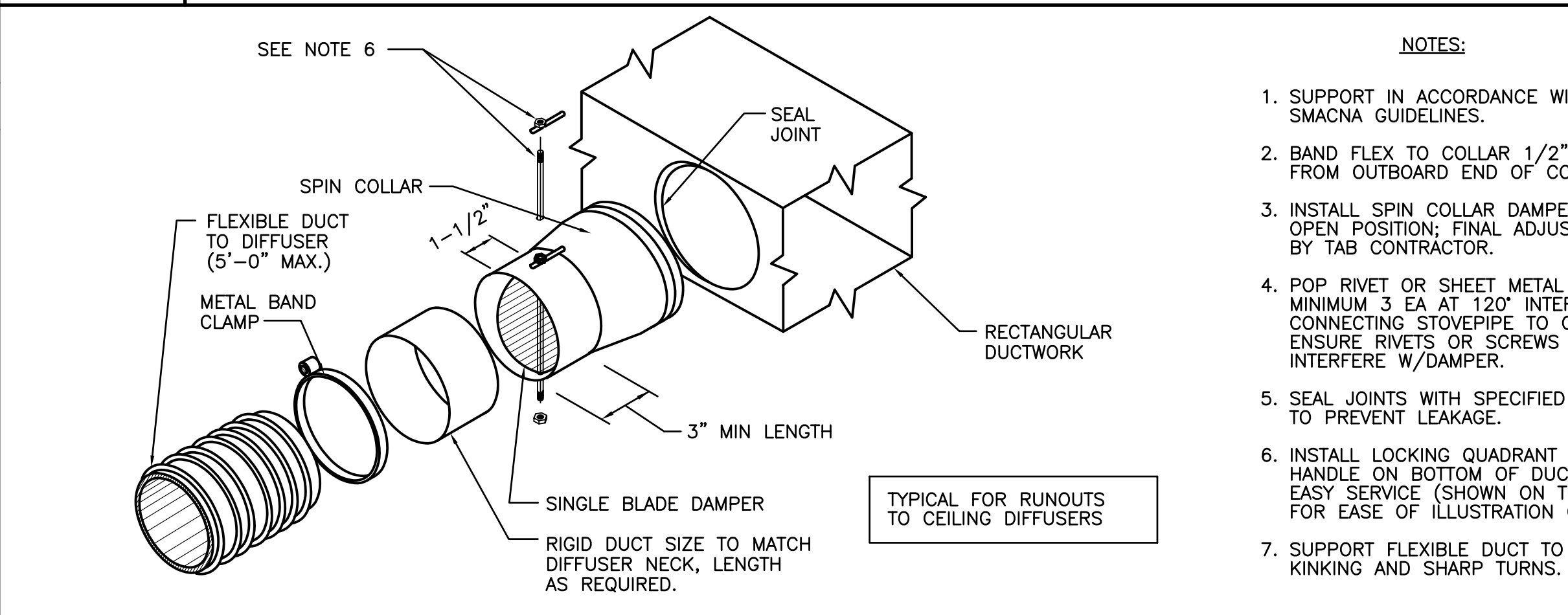
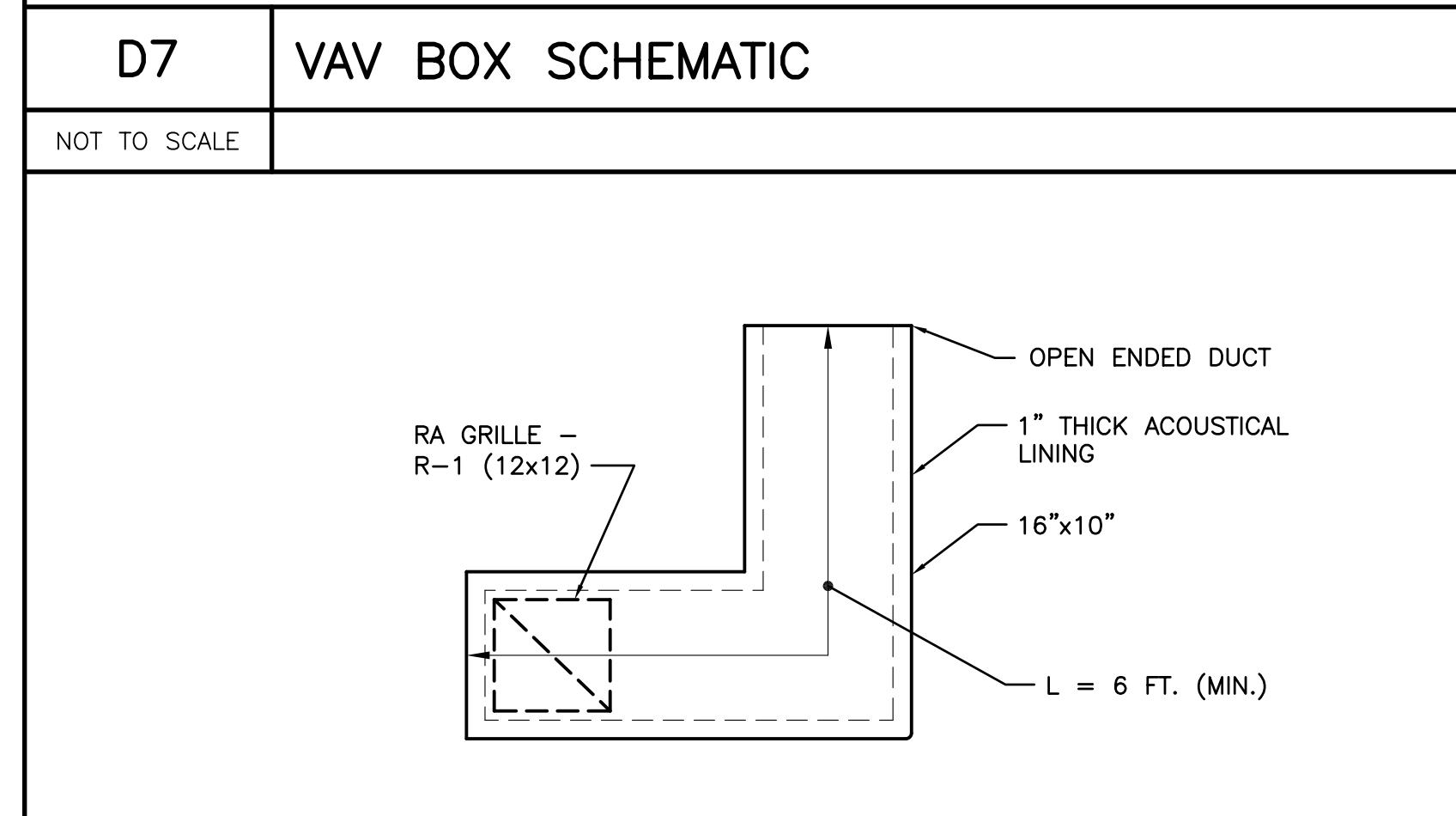
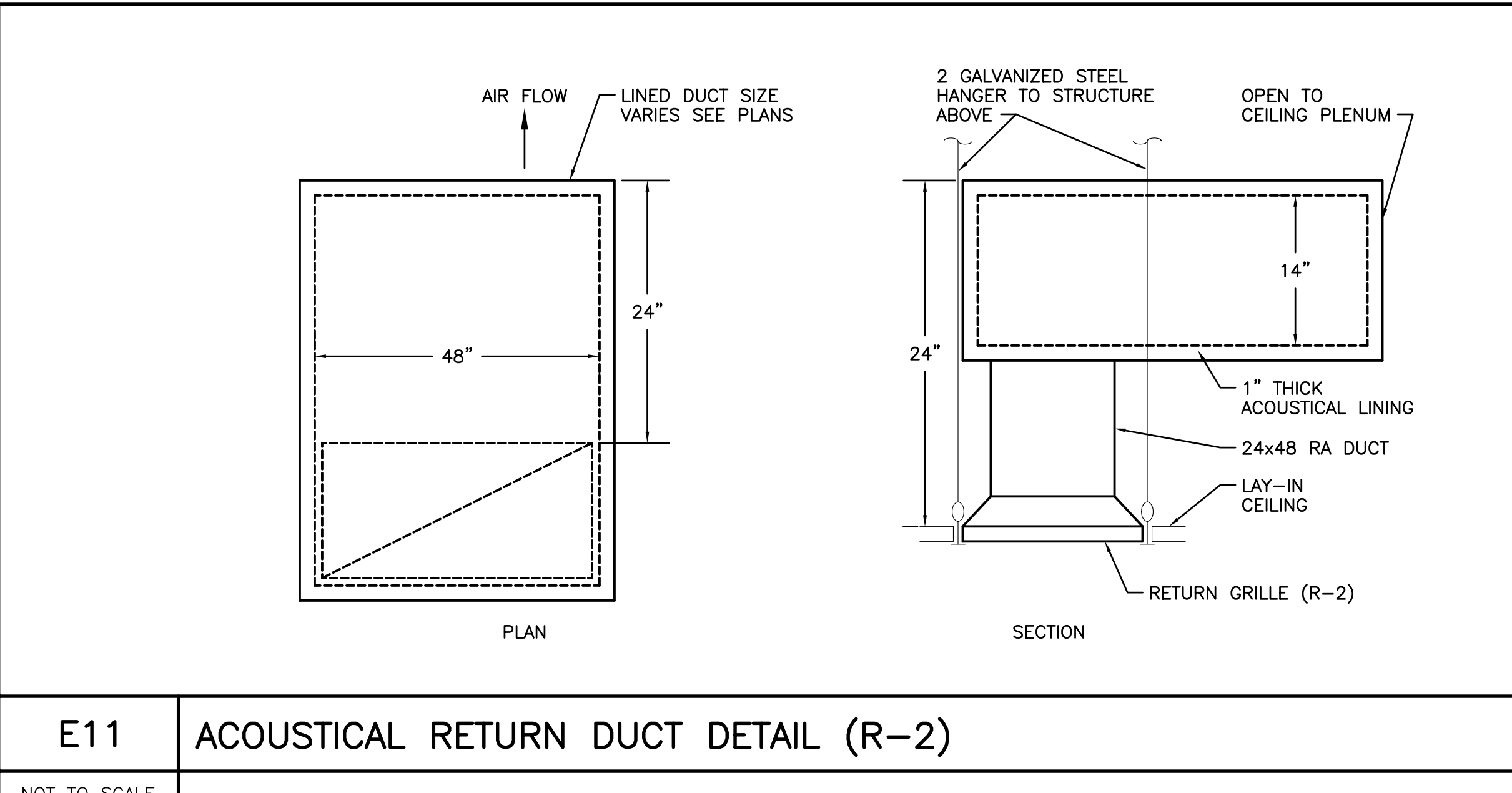
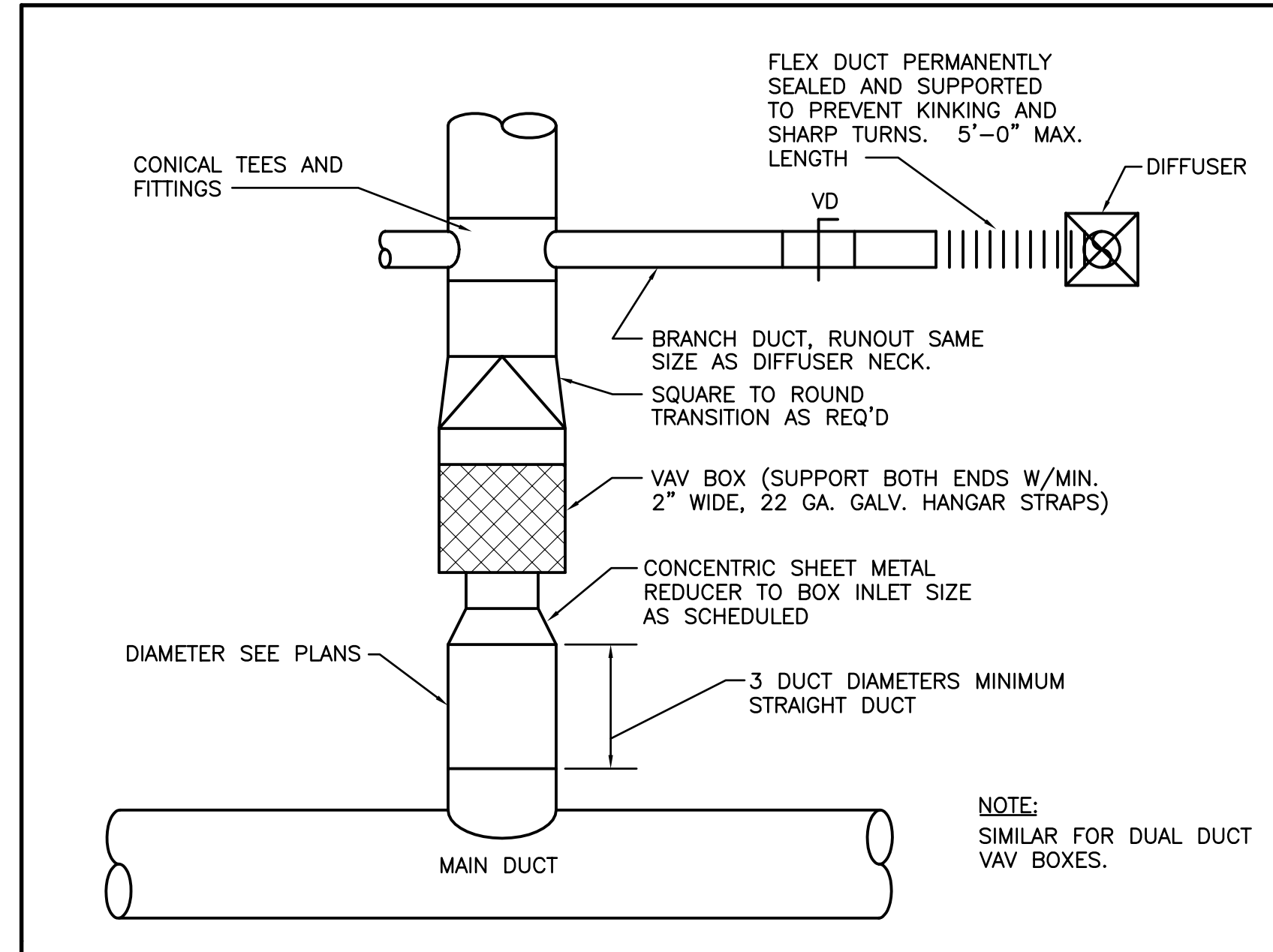
TESTING, ADJUSTING, AND BALANCING (T-A-B)
TEST, ADJUST, AND BALANCE EQUIPMENT AND DISTRIBUTION SYSTEMS IN ACCORDANCE WITH NEBB OR ABC PROCEDURAL STANDARDS. TESTS SHALL BE PERFORMED BY AN INDEPENDENT T-A-B AGENCY.

T-A-B ALL NEW AIR INLETS AND OUTLETS, INCLUDING DESIGN AND ACTUAL CFM.

T-A-B NEW DUAL DUCT VAV TERMINAL UNITS.

REGISTER, DIFFUSER & GRILLE SCHEDULE							
TAG	MAX CFM	NECK SIZE	TYPE	ΔP	MAX NC	TITUS MODEL NO.	NOTES
S-1	300	10"ø	24x24 LAY-IN	0.08"	15	TDC 12x12 A4	①
S-2	210	8"ø	24x24 LAY-IN	0.06"	15	TDC 12x12 A4	①
S-3	210	8"ø	24x24 LAY-IN	0.06"	16	TDC 18x18 A4	①
S-4	300	10"ø	24x24 LAY-IN	0.08"	19	TDC 18x18 A4	①
S-5	400	12"ø	24x24 LAY-IN	0.06"	17	TDC 18x18 A4	①
S-6	210	8"ø	24x24 LAY-IN	0.06"	16	TDC 18x18 B3	①
S-7	300	10"ø	24x24 LAY-IN	0.08"	19	TDC 18x18 B3	①
R-1	400	12x12	24x24 LAY-IN	0.037"	12	50F	①
R-2	2672	46x22	48x24 LAY-IN	0.02"	13	50F	①

NOTES: ① WHITE FINISH



NOTE:
1. SEE SHEET M-001 FOR LEGEND AND ABBREVIATIONS.

ISSUED FOR CONSTRUCTION 1-28-04

REV. 0 ISSUED FOR CONSTRUCTION 1-28-04
DESCRIPTION DATE

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UNIMPROVIDENT HO-1
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PORTLAND, ME.

SCHEDULES, DETAILS & SPECIFICATIONS

SHEET TITLE: NO SCALE DATE: 1-28-04
PROJECT MANAGER: JLH GRAPHIC SCALE: 0" 1"
JOB CAP/DRAWN: CEB/CAH
A/E OF RECORD: LPA SHEET No.
SMRT CAD FILE: M-601-03100-0
PROJECT No. 03100-01 **M-601**