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GENERAL		MECHANICAL													ELECTRICAL													
EQUIPMENT TAG	SERVICE	FAN SECTIONS											BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	MECHANICAL NOTES	HP OR LOAD	VOLTAGE/PHASE	CONTROLLER			POWER SOURCE	CONDUIT AND CONDUCTOR SIZE	ELECTRICAL NOTES					
		FAN TAG	FAN SERVICE	FAN CFM	MINIMUM OUTDOOR AIR CFM	ESP (IN)	TOTAL SP (IN)	WHEEL TYPE	WHEEL DIAMETER (IN)	BLADE TYPE	BLADE CLASS	VARIABLE FREQUENCY DRIVE (YES/NO)						FAN RPM	MOTOR BHP (HP)	FAN QUANTITY				TOTAL HP	PROVIDED BY	SIZE	LOCATION	DISCONNECT SIZE AND TYPE
70-AHBSW-1	EXISTING	70-SF-6	SUPPLY	33,070	33,070	---	5.2	---	16	---	---	YES	3525	7.5	6	45	HUNTAIR	FANWALL	1,2,3	45HP	460/3	MECH	VFD	AS INDICATED ON PLANS	100A NFSS	EHBJS-1	(1) 1 1/4" C, 3#4 AWC AND 1#8 GND	1,2

MECHANICAL NOTES:
1. AHU'S EXHAUST FAN IS REMOTELY LOCATED AND IS NOT MOUNTED IN THE UNIT.
2. DIV 23 CONTRACTOR TO PROVIDE CONNECTION FROM VFD'S TO EACH SUPPLY FAN. SINGLE DISCONNECT BY DIVISION 26.
3. CONTRACTOR TO CONFIRM SIZE AND CAPACITY OF EXISTING VALVES TO BE REPLACED WITH DDC CONTROL.

ELECTRICAL NOTES:
1. PROVIDE LUGS IN DISCONNECT SWITCH TO SERVE MULTIPLE VFD'S.
2. EC TO PROVIDE CONNECTION TO DISC AND FROM DISC TO VFD'S. SEE MECH SCHEDULE FOR QUANTITY.

GENERAL		AIR DATA													WATER DATA				SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	MECHANICAL NOTES
EQUIPMENT TAG	AHU SERVED	CFM	NUMBER OF COILS	EACH COIL SIZE (W x H)	ROWS	FINS PER INCH	EAT DB (F)	WLB (F)	LAT DB (F)	FACE VELOCITY (FPM)	AIR PRESSURE DROP (IN W.C.)	EWT (F)	LWT (F)	GPM	GLYCOL (% TYPE)	WATER PD (FT)							
CC-01	70-AHBSW-1	33,070	4	83.05"x45.0"	6	12	93.0	80.0	54.6	54.4	393.7	0.58	44.0	56.1	126.7	-	15.6	346.8	768.8	McQUAY	5WS1206B	-	

MECHANICAL NOTES:
1. WATER FLOW RATE AND CAPACITY VALUES ARE PER COIL. APPLICABLE DATA TO BE QUADRUPLE AS UNIT CONTAINS FOUR COIL.

GENERAL		MECHANICAL													NOTES			
EQUIP. NO.	SERVES	TYPE	INLET SIZE (IN DIA)	CFM MIN.	CFM MAX.	MAX. NC	MAX. AIR PD (IN)	COIL ROWS	EWT (F)	LWT (F)	GPM	MAX WATER PD (FT)	MBH	EAT (F)		LAT (F)	BASIS OF DESIGN MANUF.	BASIS OF DESIGN MODEL NO.
VAV-SC-1	SC-155	SINGLE DUCT	6	120	120	25	0.5	1	180	160	0.55	5	5.51	55.0	85.0	TITUS	DESV	2-WAY CONTROL VALVE
VAV-SC-2	SC-177	SINGLE DUCT	6	120	120	25	0.5	1	180	160	0.55	5	5.51	55.0	85.0	TITUS	DESV	2-WAY CONTROL VALVE
VAV-SC-3	SC-228	SINGLE DUCT	5	75	75	25	0.5	1	180	160	0.41	5	4.05	55.0	85.0	TITUS	DESV	2-WAY CONTROL VALVE
VAV-SC-4	SC-118	SINGLE DUCT	5	50	50	25	0.5	1	180	160	0.32	5	3.24	55.0	85.0	TITUS	DESV	2-WAY CONTROL VALVE

GENERAL		MECHANICAL													NOTES
EQUIP. NO.	SERVES	TYPE	INLET SIZE (IN DIA)	CFM MIN.	CFM MAX.	MAX. NC	MAX. AIR PD (IN)	BASIS OF DESIGN MANUF.	BASIS OF DESIGN MODEL NO.						
CVAV-1	BM-116	DUAL DUCT	6	280	280	25	0.5	TITUS	DEDV	PROVIDE WITH MIXER/ATTENUATOR SECTION					
CVAV-2	BM-116C	DUAL DUCT	6	280	280	25	0.5	TITUS	DEDV	PROVIDE WITH MIXER/ATTENUATOR SECTION					
CVAV-3	BM-119	DUAL DUCT	8	600	600	25	0.5	TITUS	DEDV	PROVIDE WITH MIXER/ATTENUATOR SECTION					
CVAV-4	BM-103, BM-104	DUAL DUCT	8	440	440	25	0.5	TITUS	DEDV	PROVIDE WITH MIXER/ATTENUATOR SECTION					

VFD NUMBER	MOTOR NUMBER	VOLTAGE/PHASE	MIN SHORT CIRCUIT RATING (KA)	ENCLOSURE TYPE	ENCLOSURE PLENUM RATED (YES/NO)	SEISMIC BRACING (YES/NO)	VARIABLE TORQUE/CONSTANT TORQUE (VT/CT)	INPUT AC LINE HARMONIC CONTROL (YES/NO)	OUTPUT AC LINE HARMONIC CONTROL (YES/NO)	BYPASS CONTACTOR (YES/NO)	BYPASS CONTACTOR TYPE (MANUAL/AUTOMATIC)	MOTOR STARTING IN BYPASS (FULL VOLTAGE/REDUCED VOLTAGE)	MULTIPLE MOTOR CONTROL (YES/NO)	DAMPER CONTROL CIRCUIT (YES/NO)	ESSENTIAL SERVICE/FIRE FIGHTER MODE (YES/NO)	LEED REQUIREMENTS (YES/NO)	ELECTRICAL NOTES
VFD-70-1-SA	70-SF-A	480/3	35	NEMA 1	NO	NO	VT	NO	YES	YES	MANUAL	REDUCED VOLTAGE	YES	NO	NO	NO	1
VFD-70-1-SB	70-SF-B	480/3	35	NEMA 1	NO	NO	VT	NO	YES	YES	MANUAL	REDUCED VOLTAGE	YES	NO	NO	NO	1

ELECTRICAL NOTES:
1. EACH VFD CONTROLS 3 FANS.

EQUIPMENT TAG	SERVICE	CFM	CAPACITY (LBS/HR)	STEAM PRESSURE (PSI)	UNIT WIDTH	UNIT HEIGHT	TUBE SPACING	ABSORPTION DISTANCE (FT)	GRID WIDTH	GRID HEIGHT	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	MECHANICAL NOTES
H-1	70-AHBSW-1	33,070	704	25 PSI	144	120	6"	1'	144	120	DRI-STEEM	ULTRA-SORB MODEL XV	-

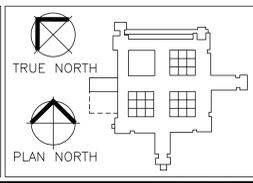
MECHANICAL NOTES:
1.

EQUIP. LETTER	SERVICE	MOUNTING TYPE	DESCRIPTION	REMARKS
CD-A	SUPPLY	LAY-IN	24x24 PERFORATED	TITUS, PAS-AA
ER-A	RETURN	LAY-IN	24x24 PERFORATED	TITUS, PAR-AA
RR-A	RETURN	LAY-IN	24x24 PERFORATED	TITUS, PAR, STEEL
CD-B	SUPPLY	LAY-IN	24x24 PERFORATED	TITUS, PAS, STEEL

REVISIONS	ADDENDUM #3	DATE
	ADDENDUM #1	02/05/13
		DATE

GENERAL NOTES:
GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.
GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS. ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE. FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota.
DARIN MAY
Date 08/13/2012 Reg. No. 42401
Drawing Scale AS NOTED
Plot Scale 12" = 1'-0"

Drawing Title
MECHANICAL SCHEDULES
Approved: Cynthia Doolittle, Chief, Projects Section
Approved: Steven Challeen, Director, Engineering

Project Title
VA SPD HVAC IMPROVEMENTS
Location V.A. MEDICAL CENTER
ONE VETERANS DRIVE
MINNEAPOLIS, MN 55417
Date 08/13/2012
Checked CM
Drawn AU

Project No.
618-12-127
Building Number
70
DRAWING NO.
1260-M20
Dwg. 25 of 28

100% CD ISSUE
FULLY SPRINKLERED
Office of
Facilities
Management
Department of
Veterans Affairs