MECHANICAL/ELECTRICAL/PLUMBING COORDINATION SCHEDULE

EQUIPMENT IDENTIFICATION				ELECTRICAL CHARACTERISTICS								DISCONNECT					STARTER																						
															PROVIDED BY					ACCESSORIES													PROVIDED BY						CONTROL	
																				AUXILIARY CONTACTS			AUXILIARY RELAY 24Vdc COIL												PILOT LIGHTS						
DESIGNATION	DESCRIPTION	LOCATION	SERVES	HORSEPOWER	KILO-WATT	FULL LOAD AMPS	MCCP	MFP	WSA/MCA	VOLTAGE	PHASE	WIRE	UNFUSED DISCONNECT	FUSED DISCONNECT	MANUAL MOTOR STARTER WITH T. OVERLOAD	DIV. 15	DIV. 16	COMBINATION UNIT	TYPE	N.C.	N.O.	N.C.	N.O.	HAND OFF	AUTO SWITCH	ELAPSED TIMER	AMMETER	VOLTMETER	WYES	PH LOSS PH REVERSAL	PH REVERSAL	U.V. DELAY	RED	GREEN	DIV. 15	DIV.16	PACKAGED UNIT	NORMAL POWER	EMERGENCY POWER	STAND-BY	BUILDING MANAGEMENT SYSTEM CONTROL	REMARKS
HVAC EQUIPMENT																																								
AHU-1	AIR HANDLER	PENTHOUSE	BSMT-3rd FLOORS		0.9					120	1	2	X			X																						X			UNIT LIGHTS/RECEPTACLES
AHU-2	AIR HANDLER	PENTHOUSE	4th FLOOR		0.9					120	1	2	X			X																						X			UNIT LIGHTS/RECEPTACLES
AHU-3	AIR HANDLER	PENTHOUSE	BSMT-3rd FLOORS		0.9					120	1	2	X			X																						X			UNIT LIGHTS/RECEPTACLES
AHU-4	AIR HANDLER	PENTHOUSE	BSMT-3rd FLOORS		0.9					120	1	2	X			X																						X			UNIT LIGHTS/RECEPTACLES
AHU-5	AIR HANDLER	PENTHOUSE	BSMT-3rd FLOORS		0.9					120	1	2	X			X																						X			UNIT LIGHTS/RECEPTACLES
AHU-6	FUTURE AHU	PENTHOUSE	FUTURE 6 & 7		0.9					120	1	2	X			X																						X			UNIT LIGHTS/RECEPTACLES
AHU-7	FUTURE AHU	PENTHOUSE	FUTURE 6 & 7		0.9					120	1	2	X			X																						X			UNIT LIGHTS/RECEPTACLES
SF-1	AHU-1 SUPPLY FAN	PENTHOUSE	BSMT-3rd FLOORS	100						460	3	3	X				X		VFD-1					X	X									X			X		YES	
SF-2	AHU-2 SUPPLY FAN	PENTHOUSE	4th FLOOR	100						460	3	3	X				X		VFD-2					X	X									X			X		YES	
SF-3	AHU-3 SUPPLY FAN	PENTHOUSE	BSMT-3rd FLOORS	100						460	3	3	X				X		VFD-3					X	X									X			X		YES	
SF-4	AHU-4 SUPPLY FAN	PENTHOUSE	BSMT-3rd FLOORS	100						460	3	3	X				X		VFD-4					X	X									X			X		YES	
SF-5	AHU-5 SUPPLY FAN	PENTHOUSE	BSMT-3rd FLOORS	100						460	3	3	X				X		VFD-5					X	X									X			X		YES	
SF-6	FUTURE SUPPLY FAN	PENTHOUSE	FUTURE 6 & 7	100						460	3	3	X				X		FUTURE																					
SF-7	FUTURE SUPPLY FAN	PENTHOUSE	FUTURE 6 & 7	100						460	3	3	X				X		FUTURE																					
RF-1	AHU-1 RETURN FAN	PENTHOUSE	AHU-1	40						460	3	3	X				X		VFD-1A					X	X									X			X		YES	
RF-2	AHU-2 RETURN FAN	PENTHOUSE	AHU-2	40						460	3	3	X				X		VFD-2A					X	X									X			X		YES	
RF-3	AHU-3 RETURN FAN	PENTHOUSE	AHU-3	40						460	3	3	X				X		VFD-3A					X	X									X			X		YES	
RF-4	AHU-4 RETURN FAN	PENTHOUSE	AHU-4	40						460	3	3	X				X		VFD-4A					X	X									X			X		YES	
RF-5	AHU-5 RETURN FAN	PENTHOUSE	AHU-5	50						460	3	3	X				X		VFD-5A					X	X									X			X		YES	
RF-6	FUTURE RETURN FAN	PENTHOUSE	FUTURE 6 & 7	40						460	3	3	X				X		FUTURE																					
RF-7	FUTURE RETURN FAN	PENTHOUSE	FUTURE 6 & 7	40						460	3	3	X				X		FUTURE																					
EF-1	GENERAL EXHAUST	PENTHOUSE	NORTH BLOCK	15						460	3	3	X				X		FVNR	X	X	X	X	X	X								X	X		X		X		YES	
EF-2	GENERAL EXHAUST	PENTHOUSE	SOUTH BLOCK	15						460	3	3	X				X		FVNR	X	X	X	X	X	X								X	X		X		X		YES	
EF-3	ISOLATION EXHAUST	PENTHOUSE	ISOLATION ROOMS	7.5						460	3	3	X				X		VFD-EF3	X	X	X	X	X	X								X	X		X			X	YES	
EF-4	PENTHOUSE VENTILATION	PENTHOUSE	PENTHOUSE	3						460	3	3	X				X		FVNR	X	X	X	X	X	X								X	X		X		X		YES	
EF-5	PENTHOUSE VENTILATION	PENTHOUSE	PENTHOUSE	3						460	3	3	X				X		FVNR	X	X	X	X	X	X								X	X		X		X		YES	
SPF-1	FUTURE STAIRWELL PRESSURIZATION FAN	FUTURE ROOFTOP	NORTH STAIRWELL	15						460	3	3	X				X		FVNR	X	X	X	X	X	X								X	X		X		X		YES	CONTROLLED BY FACP
SPF-2	FUTURE STAIRWELL PRESSURIZATION FAN	FUTURE ROOFTOP	SOUTH STAIRWELL	15						460	3	3	X				X		FVNR	X	X	X	X	X	X								X	X		X		X		YES	CONTROLLED BY FACP
P-1	PRIMARY HOT WATER PUMP	PENTHOUSE	HOT WATER REHEAT	10.0						460	3	3																								X		X		YES	
P-2	PRIMARY HOT WATER PUMP	PENTHOUSE	HOT WATER REHEAT	10.0						460	3	3																								X		X		YES	
P-3	STANDBY HOT WATER PUMP	PENTHOUSE	HOT WATER REHEAT	10.0						460	3	3																								X		X		YES	
P-4	VARIABLE HOT WATER PUMP	PENTHOUSE	RADIANT PANELS	7.5						460	3	3																								X				YES	
P-5	VARIABLE HOT WATER PUMP	PENTHOUSE	RADIANT PANELS	7.5						460	3	3																								X				YES	
AC-1	PACKAGED HEAT PUMP	PENTHOUSE ROOF	ELEVATOR MACH. RM					70	67	480	3	3		X			X																			X	X		X		YES	
AC-2	SPLIT SYSTEM HEAT PUMP FCU-2	SUB BSMT	NORMAL ELEC. RM	7.5				15	10	460	3	3	X				X		FVNR	X	X															X	X	X			YES	
	HEAT PUMP ACCU-2	GRADE @ AREAWAY	FCU-2 OF AC-2					50	36.1	460	3	3	X				X		FVNR	X	X															X	X	X			YES	
AC-3	SPLIT SYSTEM HEAT PUMP FCU-3	SUB BSMT	EMERGENCY ELEC. RM	5.0				15	6	460	3	3	X				X		FVNR	X	X															X	X		X		YES	
	HEAT PUMP ACCU-3	GRADE @ AREAWAY	FCU-3 OF AC-3					35	27.6	460	3	3	X				X		FVNR	X	X															X	X		X		YES	
AC-4	SPLIT SYSTEM HEAT PUMP FCU-4	SUB BSMT	MEDICAL VAC. RM	(1) 1/2		3.3				208	1	2	X				X		FVNR	X	X															X	X		X		YES	
	HEAT PUMP ACCU-4	GRADE @ AREAWAY	FCU-4 OF AC-4					40	23	208	1	2	X				X		FVNR	X	X															X	X		X		YES	
AC-5	SPLIT SYSTEM HEAT PUMP FCU-5	SUB BSMT	TEL/DATA RM	(1) 1/8		0.9				208	1	2	X				X		FVNR	X	X															X	X		X		YES	
	HEAT PUMP ACCU-5	GRADE @ AREAWAY	FCU-5 OF AC-5					15	11	208	1	2	X				X		FVNR	X	X															X	X		X		YES	
ACCP-1	A/C COOLING CONDENSATE PUMP	SUB BASEMENT CEILING	AC-2, 3, 4, 5	(4)1/30						115	1	2	X		X		X																			X		X			NO	EMERG. POWER FOR AC-3,4,5 UNITS
CP-1	LPR CONDENSATE PUMP	PENTHOUSE	PHC-1,2 & DHWH-1	(2) 5 ea						460	3	3	x				x	x																							
CP-2	LPR CONDENSATE PUMP	PENTHOUSE	PHC-3	(2) 3 ea						460	3	3	x				x	x																		x			x		YES	
CP-3	LPR CONDENSATE PUMP	PENTHOUSE	PHC-4, USG-1	(2) 3 ea						460	3	3	x				x	x																		x			x		YES	
CP-4	LPR CONDENSATE PUMP	PENTHOUSE	PHC-5	(2) 3 ea						460	3	3	x				x	x																		x			x		YES	
CP-5	LPR CONDENSATE PUMP	PENTHOUSE	PRV-2	(2) 3 ea						460	3	3	x				x	x																		x			x		YES	
CP-6	LPR CONDENSATE PUMP		?																																	x			x		YES	
CP-7	LPR CONDENSATE PUMP		?																																						
UH-1	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/20						120	1	2																											X		NO	
UH-2	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/20						120	1	2	X			X																							X		NO	
UH-3	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/20						120	1	2	X			X																							X		NO	
UH-4	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/20						120	1	2	X			X																							X		NO	
UH-5	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/20						120	1	2	X			X																							X		NO	
UH-6	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/20						120	1	2	X			X																							X		NO	
UH-7	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/20						120	1	2	X			X																							X		NO	
UH-8	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/20						120	1	2	X			X																							X		NO	
UH-9	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/30						120	1	2	X			X																							X		NO	
UH-10	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/30						120	1	2	X			X																							X		NO	
UH-11	UNIT HEATER	PENTHOUSE	PENTHOUSE	1/30						120	1	2	X			X																							X		NO	
UH-12	UNIT HEATER	BASEMENT	BASEMENT	1/30						120	1	2	X			X																							X		NO	
UH-13	UNIT HEATER	BASEMENT	BASEMENT	1/30						120	1	2	X			X																							X		NO	
UH-14	UNIT HEATER	BASEMENT	BASEMENT	1/30						120	1	2	X			X																							X		NO	
UH-15	UNIT HEATER	BASEMENT	BASEMENT	1/30						120	1	2	X			X																							X		NO	
UH-16	UNIT HEATER	BASEMENT	BASEMENT	1/30						120	1	2	X			X																							X		NO	
UH-17	UNIT HEATER	BASEMENT	BASEMENT	1/30						120	1	2	X			X																							X		NO	
UH-18	UNIT HEATER	BASEMENT	BASEMENT	1/30						120	1	2	X			X																							X		NO	
CAC-1	CONTROL AIR COMPRESSOR	PENTHOUSE	CHARLES ST. BLDG.																																X		X		X		YES	
CUH-1	CABINET UNIT HEATER	GRND FL N. VESTIBULE	GRND FL N. VESTIBULE	1/10						115	1	2	X			X																						X		NO	
CUH-2	CABINET UNIT HEATER	GRND FL S-W ENTRANCE	GRND FL S-W ENTRANCE	1/10						115	1	2	X			X																						X		NO	
CUH-3	CABINET UNIT HEATER	GRND FL S. VESTIBULE	GRND FL S. VESTIBULE	1/15						115	1	2	X			X																						X		NO	
PLUMBING EQUIPMENT																																								
MAC-1	MEDICAL AIR COMPRESSOR	SUB-BSMT	CHARLES ST. BLDG	(3) 15 EA						460	3	3	X			X																									
MVP-1	MEDICAL VACUUM PUMP	PENTHOUSE	CHARLES ST. BLDG	(2) 10 EA						460	3	3	X			X																			X			X		NO	6,7
DHWH-1	DOMESTIC HOT WATER HEATER	PENTHOUSE	CHARLES ST. BLDG	1/12						460	3	3	X			X																			X			X		NO	6,7,9,10
RCP-1	RECIRCULATION PUMP	PENTHOUSE	CHARLES ST. BLDG	(2) 3/4						460	3	3	X					X	FVNR	X	X	X	X									X	X		X			X		NO	7,8
DVAC	DRY VALVE AIR COMPRESSOR	BASEMENT	CHARLES ST. BLDG	3/4						460	3	3	X			X																			X					NO	7

STARTER TYPE LEGEND
FVNR – FULL VOLTAGE NON-REVERSING
RVAT – REDUCED VOLTAGE AUTO-TRANSFORMER
SSRV – SOLID STATE REDUCED VOLTAGE
VFD – VARIABLE FREQUENCY DRIVE

GENERAL LEGEND
MOCP – OVERCURRENT PROTECTION
WSA/MCA – WIRE SIZE AMPS/MINIMUM CIRCUIT AMPACITY
N.O. – NORMALLY OPEN
N.C. – NORMALLY CLOSED

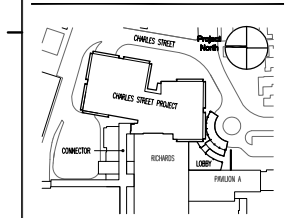
NOTES:
1 BUILDING MANAGEMENT REQUIREMENTS SHALL BE COORDINATED BETWEEN DIV 15, DIV 16, DRAWINGS AND SPECIFICATIONS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM
2 REFER TO DIV 15 SPECIFICATIONS FOR VARIABLE SPEED DRIVE REQUIREMENTS AND ACCESSORIES
3 REFER TO DIV 15 AND 16 DRAWINGS FOR QUANTITY, LOCATION AND CONFIGURATION OF DISCONNECTS AND STARTERS.
4 ALL MOTORS EQUAL TO OR LARGER THAN 1/2 HORSEPOWER SHALL BE 460 VOLT, 3PH, 3 WIRE, 60 HZ.
5 ALL MOTORS SMALLER THAN 1/2 HORSEPOWER SHALL BE 120 VOLT, 1PH, 60 HZ.
6 WIRED FOR FUTURE THIRD 10 HP PUMP
7 CONNECT VIA CONTROL PANEL
8 SEPARATE POWER FEEDS
9 REQUIRES 0.25 CFM OF CONTINUOS CONTROL AIR FROM CAC-1 UP TO 100 PSIG. MFR TO PROVIDE PRESSURE REGULATOR WITH DVAC.
10 MANUFACTURER TO PROVIDE STEAM CONTROL VALVE(S) FOR 10 PSIG STEAM INLET PRESSURE.

General Notes:

MARK	ISSUE DATE	DESCRIPTION
PERMIT	09/24/04	PERMIT SET – NOT FOR CONSTRUCTION

FOR PERMIT ONLY
NOT FOR CONSTRUCTION

Issue Log



Key Plan

TRO
Architecture
Planning
Engineering
Interior Design
The Fitzhile Organization
60 Bridge Street
Newton, MA 02465-2124
617-558-9400

Maine Medical Center
Charles Street Project
Portland, Maine MMC Project No. 21841

Drawing Title
MEP SCHEDULE

0' 0 0 0 0

Commission No.	4673	Date Issued	
Scale	NTS	Sheet Number	
Drawn By	FWC		
Approved By	CW		**MEP-1**
Filename	4673MEP		

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