MECHANICAL/ELECTRICAL/PLUMBING/ARCHITECTURE COORDINATION SCHEDULE

EQUIPMENT IDENTIFICATION				ELECTRICAL CHARACTERISTICS								DISCONNECT										STARTER																								
																PROVIDED BY										ACCESSORIES														PROVIDED BY						CONTROL	
																								AUX. CONTACTS		AUX. RELAY 24Vdc COIL										PILOT LIGHTS									
DESIGNATION	DESCRIPTION	LOCATION	OPERATING WEIGHTS LBS.	HORSEPOWER	KILO-WATT	FULL LOAD AMPS	MOCP	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	TVSS	PH LOSS PH REVERSAL	PH REVERSAL U.V. RELAY	RED	GREEN	DIV. 15	DIV.16	PACKAGED UNIT	NORMAL POWER	EMER. POWER	FUTURE EMER. POWER	STAND-BY	BUILDING MANAGEMENT SYSTEM CONTROL	REMARKS
CENTRAL UTILITY PLANT – CHILLER AND BOILER PLANT INFORMATION																																															
CH-1	CHILLER	CENTRAL UTILITY PLANT	21,000.00		784	1131			460	3	3	X			X		X	RVSD														X		X	X				YES	
CH-2	CHILLER	CENTRAL UTILITY PLANT	21,000.00		784	1131			460	3	3	X			X		X	RVSD														X		X	X				YES	
CH-3F	FUTURE CHILLER	CENTRAL UTILITY PLANT	21,000.00		784	1131			460	3	3	X			X		X	RVSD														X			X				YES	
COH-1	CHILLER OIL HEATER FOR CH-1	CENTRAL UTILITY PLANT			3				460	3	3	X				X																				X			NO	
COH-2	CHILLER OIL HEATER FOR CH-2	CENTRAL UTILITY PLANT			3				460	3	3	X				X																				X			NO	
COH-3F	FUTURE CHILLER OIL HEATER FOR CH-3F	CENTRAL UTILITY PLANT			3				460	3	3	X				X																				X			NO	
P-1	SECONDARY CHILLED WATER PUMP	CENTRAL UTILITY PLANT		250					460	3	3	X				X		VFD-1														X			X				YES	
P-2	SECONDARY CHILLED WATER PUMP	CENTRAL UTILITY PLANT		250					460	3	3	X				X		VFD-2														X			X				YES	
P-2F	FUTURE SECONDARY CHILLED WATER PUMP	CENTRAL UTILITY PLANT		250					460	3	3	X				X		VFD														X			X			X	YES	MOTOR IS FULL STANDBY
P-3	PRIMARY CHILLED WATER PUMP	CENTRAL UTILITY PLANT		50					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X		X				YES	
P-4	PRIMARY CHILLED WATER PUMP	CENTRAL UTILITY PLANT		50					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X		X				YES	
P-5	PRIMARY CHILLED WATER PUMP	CENTRAL UTILITY PLANT		50					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X		X				YES	
P-5F	FUTURE PRIMARY CHILLED WATER PUMP	CENTRAL UTILITY PLANT		50					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X		X			X	YES	MOTOR IS FULL STANDBY
P-6	CONDENSER WATER PUMP	CENTRAL UTILITY PLANT		100					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X		X				YES	
P-7	CONDENSER WATER PUMP	CENTRAL UTILITY PLANT		100					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X		X				YES	
P-8	CONDENSER WATER PUMP	CENTRAL UTILITY PLANT		100					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X		X				YES	
P-8F	FUTURE CONDENSER WATER PUMP	CENTRAL UTILITY PLANT		100					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X		X			X	YES	MOTOR IS FULL STANDBY
BFP-1	BOILER FEED PUMP	CENTRAL UTILITY PLANT		40					460	3	3	X			X			VFD-10	X	X	X	X	X							X	X		X			X			YES	
BFP-2	BOILER FEED PUMP	CENTRAL UTILITY PLANT		40					460	3	3	X			X			VFD-11	X	X	X	X	X							X	X		X			X			YES	
BFP-3	BOILER FEED PUMP	CENTRAL UTILITY PLANT		40					460	3	3	X			X			VFD-12	X	X	X	X	X							X	X		X			X			YES	
BFP-4	BOILER FEED PUMP	CENTRAL UTILITY PLANT		40					460	3	3	X			X			VFD-13	X	X	X	X	X							X	X		X			X		X	YES	MOTOR IS FULL STANDBY
BP-1	SURGE TANK BOOSTER PUMP	CENTRAL UTILITY PLANT		15					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
BP-2	SURGE TANK BOOSTER PUMP	CENTRAL UTILITY PLANT		15					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X		X	YES	MOTOR IS FULL STANDBY
WS-1	WATER SOFTENER	CENTRAL UTILITY PLANT		2@0.33					120	1	2			X		X																				X				
WTS-1	WATER FILTRATION SYSTEM	CENTRAL UTILITY PLANT		5					460	3	3	X			X			FVNR	X	X	X	X	X							X	X	X		X	X				YES	
CT-1A	COOLING TOWER	CENTRAL UTILITY PLANT – ROOF		50					460	3	3	X				X		VFD-3														X			X				YES	
CT-1B	COOLING TOWER	CENTRAL UTILITY PLANT – ROOF		50					460	3	3	X				X		VFD-4														X			X				YES	
CT-2A	COOLING TOWER	CENTRAL UTILITY PLANT – ROOF		50					460	3	3	X				X		VFD-5														X			X				YES	
CT-2B	COOLING TOWER	CENTRAL UTILITY PLANT – ROOF		50					460	3	3	X				X		VFD-6														X			X				YES	
CT-3AF	FUTURE COOLING TOWER	CENTRAL UTILITY PLANT – ROOF		50					460	3	3	X				X		VFD														X			X				YES	
CT-3BF	FUTURE COOLING TOWER	CENTRAL UTILITY PLANT – ROOF		50					460	3	3	X				X		VFD														X			X				YES	
CTH-1A	COOLING TOWER HEATER	CENTRAL UTILITY PLANT – ROOF			18				460	3	3																									X			YES	ELECTRIC BASIN HEATER
CTH-1B	COOLING TOWER HEATER	CENTRAL UTILITY PLANT – ROOF			18				460	3	3																									X			YES	ELECTRIC BASIN HEATER
CTH-2A	COOLING TOWER HEATER	CENTRAL UTILITY PLANT – ROOF			18				460	3	3																									X			YES	ELECTRIC BASIN HEATER
CTH-2B	COOLING TOWER HEATER	CENTRAL UTILITY PLANT – ROOF			18				460	3	3																									X			YES	ELECTRIC BASIN HEATER
CTH-3AF	FUTURE COOLING TOWER HEATER	CENTRAL UTILITY PLANT – ROOF			18				460	3	3																										X		YES	ELECTRIC BASIN HEATER
CTH-3BF	FUTURE COOLING TOWER HEATER	CENTRAL UTILITY PLANT – ROOF			18				460	3	3																										X		YES	ELECTRIC BASIN HEATER
EF-1	GENERATOR ROOM VENT FAN	LEVEL 1 EMER. GEN. ROOM		0.33					120	1	2			X		X																			X				YES	
EF-2	ELECTRICAL ROOMS EXH FAN	CENTRAL UTILITY PLANT – ROOF		3					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
EF-3	GENERATOR ROOM VENT FAN	LEVEL 2 EMER. GEN. ROOM		0.33					120	1	2	X		X		X																			X				YES	
EF-4	BOILER PLANT RESTROOM	LEVEL 1 REST ROOM		0.01					120	1	2			X		X																			X				NO	WIRED TO LIGHT SWITCH FOR ROOM
EF-5	REFRIGERANT PURGE EXH. FAN	LEVEL 2 CHILLER PLANT		10					460	3	3	X				X		VFD-9	X	X	X	X	X							X	X		X			X			YES	
EF-6	STROBIC – GEN EXHAUST FAN	ROOF		15					460	3	3	X				X		VFD-9	X	X	X	X	X							X	X		X			X			YES	
AHU-1	BOILER PLANT AHU	LEVEL 1 BOILER PLANT			0.9				120	1	2	X			X																					X			NO	
AHU-2	BOILER PLANT AHU	LEVEL 2 CHILLER PLANT			0.9				120	1	2	X			X																					X			NO	
SF-1	AHU-1 SUPPLY FAN	LEVEL 1 BOILER PLANT		40					460	3	3	X					X	VFD-8														X				X			YES	
SF-2	AHU-2 SUPPLY FAN	LEVEL 2 CHILLER PLANT		25					460	3	3	X					X	VFD-7														X			X				YES	
CAC-1	CONTROL AIR COMPRESSOR	CENTRAL UTILITY PLANT		2@30					460	3	3	X			X		X															X		X		X		X	YES	ONE MOTOR IS FULL STANDBY
B-1	BOILER	BOILER PLANT		75					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X			X			YES	
AAC-1	BOILER #1 ATOMIZING AIR COMPRESSOR	BOILER PLANT		15					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
BOP-1	BOILER #1 BURNER OIL PUMP MOTOR	BOILER PLANT		1.5					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
B-2	BOILER	BOILER PLANT		75					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X			X			YES	
AAC-2	BOILER #2 ATOMIZING AIR COMPRESSOR	BOILER PLANT		15					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
BOP-2	BOILER #2 BURNER OIL PUMP MOTOR	BOILER PLANT		1.5					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
B-3	BOILER	BOILER PLANT		75					460	3	3	X				X		RVAT	X	X	X	X	X							X	X		X			X			YES	
AAC-3	BOILER #3 ATOMIZING AIR COMPRESSOR	BOILER PLANT		15					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
BOP-3	BOILER #3 BURNER OIL PUMP MOTOR	BOILER PLANT		1.5					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
CP-1	CONDENSATE PUMP	BOILER PLANT		2@5					460	3	3	X			X		X	FVNR	X	X	X	X	X							X	X	X		X		X		X	YES	ONE MOTOR IS FULL STANDBY
CP-2	CONDENSATE PUMP	EXISTING BOILER PLANT		2@7.5					460	3	3	X			X		X	FVNR	X	X	X	X	X							X	X	X		X		X		X	YES	ONE MOTOR IS FULL STANDBY
FOP-1	FUEL OIL PUMP SET FOR BOILERS	EXISTING PUMP HOUSE		2@5.0					460	3	3	X			X		X	FVNR	X	X	X	X	X							X	X	X		X		X		X	YES	ONE MOTOR IS FULL STANDBY
FOP-2	FUEL OIL PUMP SET FOR GENERATORS	EXISTING PUMP HOUSE		2@3.0					460	3	3	X			X		X	FVNR	X	X	X	X	X							X	X	X		X		X		X	YES	ONE MOTOR IS FULL STANDBY
FDT-1	FUEL OIL DAY TANK	EMERGENCY GENERATOR PLANT							120	1	2																									X				DAY TANK CONTROL PANEL
FDT-2F	FUTURE FUEL OIL DAY TANK	EMERGENCY GENERATOR PLANT							120	1	2																									X				DAY TANK CONTROL PANEL
	FUEL OVERFLOW PUMP FOR FDT-1	EMERGENCY GENERATOR PLANT		0.75					460	3	3	X				X	X	FVNR	X	X	X	X	X							X	X		X			X			NO	
	FUTURE FUEL OVERFLOW PUMP FOR FDT-2F	EMERGENCY GENERATOR PLANT		0.75					460	3	3	X				X	X	FVNR	X	X	X	X	X							X	X		X			X			NO	
EF-6	GEN ERATOR EXH. "STROBIC" FAN	CENTRAL UTILITY PLANT – ROOF		15.00					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X			X			YES	
EF-7F	GEN ERATOR EXH. "STROBIC" FAN	CENTRAL UTILITY PLANT – ROOF		15.00					460	3	3	X				X		FVNR	X	X	X	X	X							X	X		X				X		YES	

STARTER TYPE LEGEND

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

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

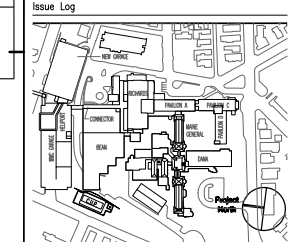
NOTES:
* DENOTES PLUMBING OR FIRE PROTECTION EQUIPMENT
1. BUILDING MANAGEMENT REQUIREMENTS SHALL BE COORDINATED BETWEEN DIV 15, DIV 16, AND SPECIFICATIONS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM
2. REFER TO DIV 15 SPECIFICATIONS FOR VARIABLE SPEED DRIVE REQUIREMENTS AND ACCESSORIES.
3. ALL MOTORS 1/2 HORSEPOWER AND LARGER SHALL BE 460 VOLT, 3PH, 3WIRE, 60 Hz.
4. ALL MOTORS SMALLER THAN 1/2 HORSEPOWER SHALL BE 120 VOLT, 1PH, 2WIRE, 60 Hz.

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 Fitzhide Organization
83 Bridge Street
Newton, MA 02465-1134
617-969-9400

Maine Medical Center
Central Utility Plant
Portland, Maine

Drawing Title
MECHANICAL, ELECTRICAL, AND PLUMBING COORDINATION SHEET

0' 0 0 0 0

Commission No.	4677	Date Issued	
Scale	NTS	Sheet Number	
Drawn By	MC		MEP-1
Approved By	MC		
Filename	4677M700		

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