

THE FOLLOWING ADDENDUM SUPERCEDES INFORMATION CONTAINED IN DRAWINGS AND SPECIFICATIONS ISSUED FOR THE PROJECT TO THE EXTENT REFERENCED. THIS ADDENDUM FORMS PART OF THE TENDER DOCUMENTS AND IS SUBJECT TO ALL OF THE CONDITIONS SET OUT IN THE CONTRACT CONDITIONS.

This electrical addendum contains four (4) pages and attachments - one (1) page of mechanical schedule, one (1) page of panel M schedule, and one (1) page of partial L2 floor plan.

PART 1 REFER TO ELECTRICAL SPECIFICATIONS

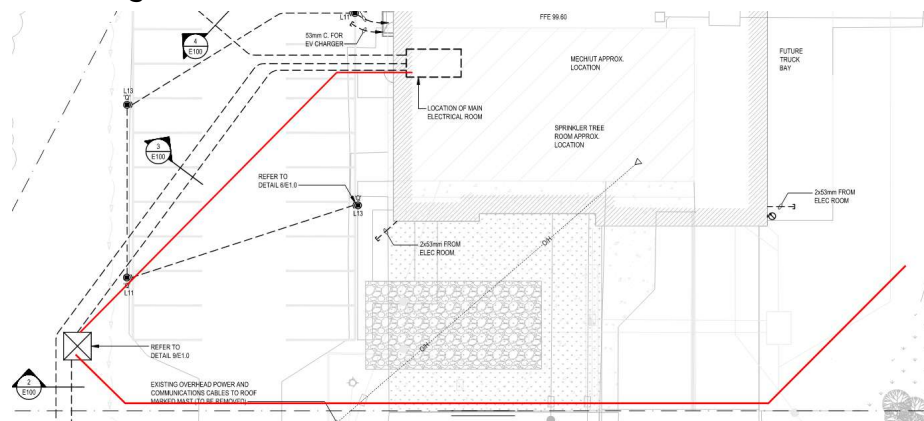
1.1 SECTION 26 32 13 POWER GENERATOR DIESEL

- .1 Revise 2.7.1.2 "... supplying generator for 24 hours." to "...supplying generator for 48 hours minimum."

PART 2 REFER TO THE ELECTRICAL DRAWINGS

2.1 DRAWING E1.0 – SITE PLAN, LEGEND, AND DETAILS

- .1 Delete Sump Pump 2 (SP-2) connections and associated wiring and conduit from scope.
- .2 BC Hydro is currently finalising their design, but the incoming primary is intended to be traversing across the frontage of the property. Revised incoming BC Hydro primary and secondary ducts but the PMT location has remained in its original location. The secondary ducts of the PMT shall be relocated slightly to coordinate with the temporary trailers and seacans on site. Electrical contractor to coordinate with the Owner / RDN on the final placement of the trailer on site prior to starting work.

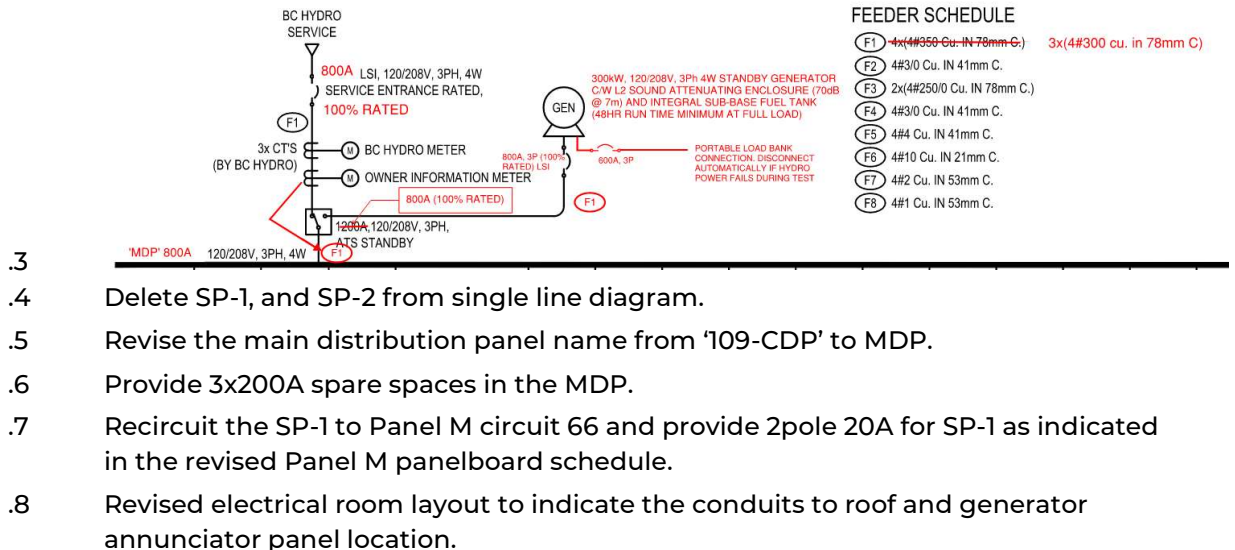


- .3 Delete the wall mounted vacancy sensor in the legend as shown below. Revise the vacancy sensor, ceiling mounted in the legend to Low voltage occupancy sensor, ceiling mounted as shown below.

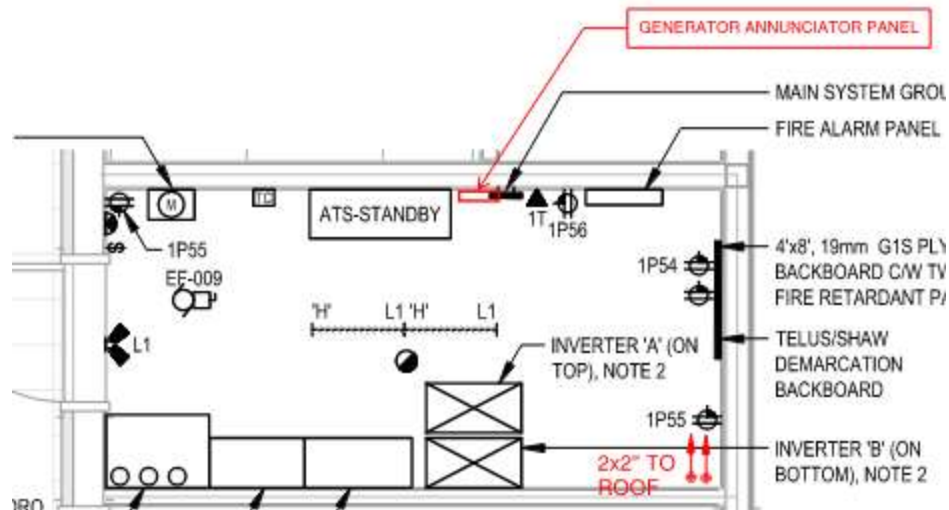


2.2 DRAWING E1.1 – DUCT PROFILE, SINGLE LINE DIAGRAM, ELECTRICAL ROOM LAYOUT, DETAILS AND SCHEDULES

- .1 Revise BC Hydro service size, main switchboard (MDP), ATS and generator systems as indicated.
- .2 Relocate the customer CT metering to load side of the ATS



- .3
- .4 Delete SP-1, and SP-2 from single line diagram.
- .5 Revise the main distribution panel name from '109-CDP' to MDP.
- .6 Provide 3x200A spare spaces in the MDP.
- .7 Recircuit the SP-1 to Panel M circuit 66 and provide 2pole 20A for SP-1 as indicated in the revised Panel M panelboard schedule.
- .8 Revised electrical room layout to indicate the conduits to roof and generator annunciator panel location.



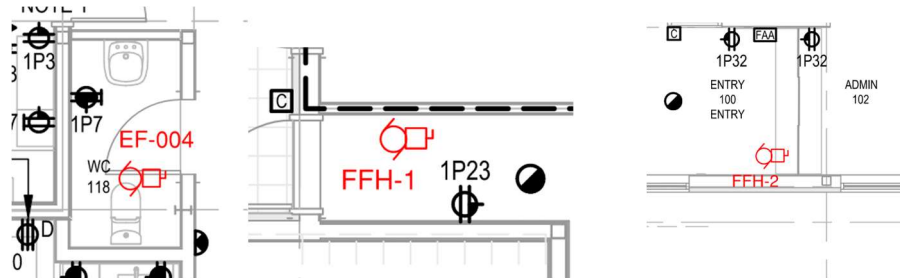
2.3 DRAWING E1.2 – DETAILS AND SCHEDULES

- .1 Add new mechanical equipment connections as per attached partial Mechanical Equipment Schedule.
- .2 Note the attached is only a partial Mechanical Equipment Schedule that shows only new mechanical equipment added.
- .3 Revise panel M panelboard schedule as attached.

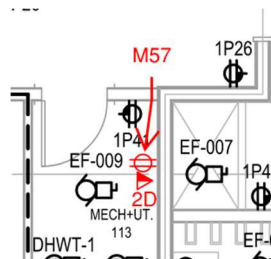
- .4 Revise the circuit 15 on panel 1P for OHD-4 from 15A, 1Pole to 20A, 1Pole.

2.4 DRAWING E2.0 – LEVEL 1 ELECTRICAL LAYOUTS

- .1 Delete the word “revised” from sheet name
.2 New mechanical unit locations are added as per below.



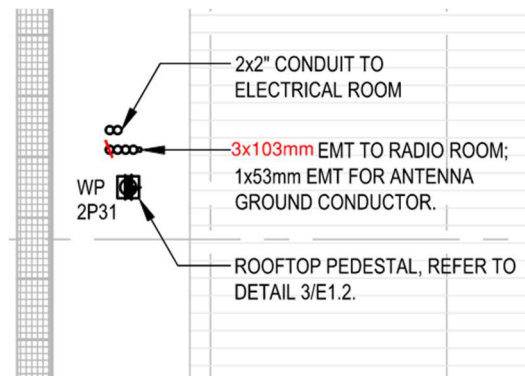
- .3 Provide 15A receptacle and 2D data drop for DDC Panel and circuit the receptacle to panel M circuit number 57 as shown below.



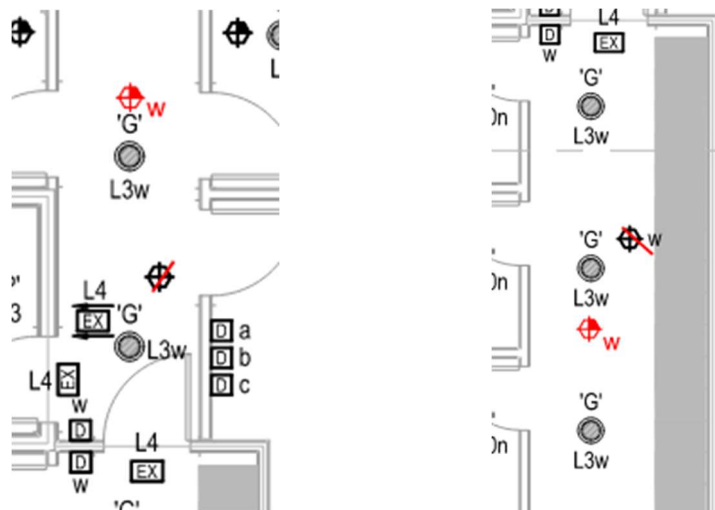
- .4 Contractor to coordinate with mechanical before rough-in for the DDC receptacle.

2.5 DRAWING E2.1 – LEVEL 2 ELECTRICAL LAYOUTS

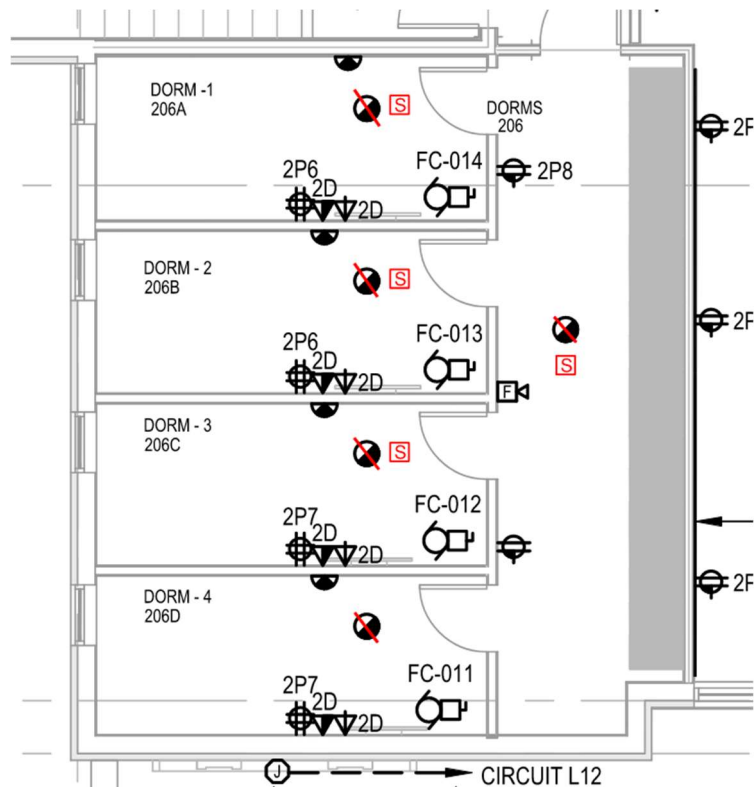
- .1 Delete the word “revised” from sheet name
.2 New mechanical unit locations have been shown in the attached partial L2 floor plan (Apparatus Bay).
.3 Revise the conduit on the rooftop from 4x103mm conduits to 3x103mm conduits as shown below.



- .4 Delete the ceiling mounted occupancy sensor with control ‘w’ and provide ceiling mounted occupancy sensor in the new place as shown below.



- .5 Revise the smoke detectors in the Dorms to the smoke alarms and group and connect all the smoke alarm to one circuit as shown below.



END OF ELECTRICAL ADDENDUM NO. 02

MECHANICAL EQUIPMENT SCHEDULE																																			
TAG	DESCRIPTION	EQUIPMENT LOCATION	LOAD							UNIT			STARTER				DISC.			CONTROL					PANEL		BREAKER			WIRE/CONDUIT			EMR PWR	STANDBY PWR	NOTE(S)
			MCA	KW	HP	VOLTS	PHASE	TYPE	FLA	SUPPLY	MOUNT	CONNECT	SUPPLY	MOUNT	CONNECT	TYPE	SUPPLY	MOUNT	CONNECT	SUPPLY	MOUNT	CONNECT	TYPE	FIRE ALARM	PANEL #	PANEL LOCATION	AMPS	POLE	CCT #'S	WIRE SIZE	NUMBER	CONDUIT SIZE			
BC-1	BRANCH SELECTOR	CORRIDOR 101	1.19			208	1	RESISTIVE	1.19	M	M	E	-	-	-	-	E	E	E	-	-	-	-		M	CORRIDOR 101	15	2	55	12	3	21			
CO/NOX	CO/NOX CONTROL PANEL	MECHANICAL ROOM				120	1	RESISTIVE		M	M	E	-	-	-	-	E	E	E	-	-	-	-		M	CORRIDOR 101	15	1	59	12	2	21			
HT	HEAT TRACING	APPARATUS BAY				120	1	RESISTIVE		M	M	E	-	-	-	-	E	E	E	-	-	-	-		M	CORRIDOR 101	20	1	61, 63	12	2	21			
NM-A	NEDERMAN MAGNARAIL	APPARATUS BAY				120	1	RESISTIVE		M	M	E	-	-	-	-	E	E	E	-	-	-	-		M	CORRIDOR 101	20	1	65	12	2	21			
NM-B	NEDERMAN MAGNARAIL	APPARATUS BAY				120	1	RESISTIVE		M	M	E	-	-	-	-	E	E	E	-	-	-	-		M	CORRIDOR 101	20	1	65	12	2	21			
NM-C	NEDERMAN MAGNARAIL	APPARATUS BAY				120	1	RESISTIVE		M	M	E	-	-	-	-	E	E	E	-	-	-	-		M	CORRIDOR 101	20	1	67	12	2	21			
NM-D	NEDERMAN MAGNARAIL	APPARATUS BAY				120	1	RESISTIVE		M	M	E	-	-	-	-	E	E	E	-	-	-	-		M	CORRIDOR 101	20	1	67	12	2	21			
MD	MOTORIZED DAMPERS	REFER TO MECH DRAWINGS				120	1	RESISTIVE		M	M	E	-	-	-	-	E	E	E	-	-	-	-		M	CORRIDOR 101	20	1	69, 71	12	2	21			
EF-004	APPARATUS BAY WC	APPARATUS BAY			0.50	120	1	RESISTIVE	9.80	M	M	E	E	E	E	WS	E	E	E	-	-	-	-		M	CORRIDOR 101	20	1	64	12	2	21			
FFH-1	ELECTRIC FORCE FLOW HTR	ENTRANCE		1.50		208	1		7.21	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS		M	CORRIDOR 101	15	2	73	12	3	21			
FFH-2	ELECTRIC FORCE FLOW HTR	STAIR		1.50		208	1		7.21	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS		M	CORRIDOR 101	15	2	75	12	3	21			
LEGEND																	NOTES																		
M = DENOTES BY MECHANICAL CONTRACTOR E = DENOTES BY ELECTRICAL CONTRACTOR T = THERMOSTAT TC = TIME CLOCK PCS = PACKAGED CONTROL SYSTEM MAG = MAGNETIC STARTER WITH AUX STATUS CONTACTS MAN = MANUAL STARTER CP = CONTROL PANEL INT = INTEGRAL WITH UNIT																	I = INTERLOCK OA = MAGNETIC STARTER WITH OFF-AUTO SELECTOR BMS = BUILDING MANAGEMENT SYSTEM W/T = WIRE TO VFD = VARIABLE FREQUENCY DRIVE RT = REVERSE ACTING THERMOSTAT SW = HP RATED SWITCH DDC = CONTROLLED BY DDC SYSTEM WS= WALL SWITCH																		
1 ALL VARIABLE SPEED DRIVES TO HAVE A DEDICATED COPPER BOND CONDUCTOR SIZED TO MATCH PHASE CONDUCTOR. 2 ALL WIRE SIZES ARE IN COPPER (UNLESS EXPLICITALLY STATED OTHERWISE) AND ARE TO BE PROVIDED WITH A BOND 3 CONFIRM FINAL MECHANICAL EQUIPMENT REQUIREMENTS WITH MECHANICAL CONTRACTOR'S SHOP DRAWINGS AND ADJUST CIRCUIT WIRING AND BREAKER RATING IF REQUIRED AT NO ADDITIONAL COST. 4 ALL WIRING AND RACEWAYS ARE SIZED BASED ON THE MINIMUM PROVISIONS OF THE CEC. THE CONTRACTOR IS TO ADJUST WIRE AND RACEWAY SIZES BASED ON FIELD CONDITIONS AND VOLTAGE DROP, AT NO ADDITIONAL COST TO THE OWNER.																																			

PANELBOARD SCHEDULE

JOB NO./NAME : 120-170/DASHWOOD FIRE HALL REPLACEMENT
 PANEL : M
 SYSTEM : 120/208V, 3PH, 4W
 TYPE : PANELBOARD
 LOCATION : CORRIDOR 101
 MOUNTING : RECESSED
 NO. CIRCUITS : 84
 BUS SIZE : 250A
 SYM. FAULT RATING : 22KAIC

DESCRIPTION	BRK	POLE	CCT	CCT	POLE	BRK	DESCRIPTION
FC-001, FC-002	15	2	01	02	2	15	FC-003, FC-004
			03	04			
FC-005, FC-006	15	2	05	06	2	15	FC-007, FC-008
			07	08			
FC-009, FC-010	15	2	09	10	2	15	FC-011, FC-012
			11	12			
FC-013, FC-014	15	2	13	14	3	100	SPARE
			15	16			
SPARE	100	2	17	18			
			19	20	2	20	HRV-1
SAPRE	100	2	21	22			
			23	24	2	20	HRV-2
SPARE	100	2	25	26			
			27	28	2	20	HRV-3
SPARE	20	1	29	30			
SPARE	20	1	31	32	1	20	EF-005
SPARE	20	1	33	34	1	20	EF-006
EF-002	30	1	35	36	1	20	EF-007
EF-008	20	1	37	38	1	20	EF-009
EF-010	20	1	39	40	1	20	EF-011
EF-012	20	1	41	42	3	15	CF-001
CF-002	15	3	43	44			
			45	46			
			47	48	1	20	P-001
DRY SPRINKLER ZONE COMPRESSOR	15	3	49	50	1	15	THERMOSTATION MIXING VALVE
			51	52	2	110	SPARE
			53	54			
BC-1	15	1	55	56	3	30	GEN HEATER
DDC PANEL REC	15	1	57	58			
CO/NOX CTRL PNL	15	1	59	60			
HEAT TRACE *	20	1	61	62	1	20	BATTERY CHARGER
HEAT TRACE *	20	1	63	64	1	20	EF-004
NM-A, NM-B	20	1	65	66	1	20	SP-1(PUMP)
NM-C, NM-D	20	1	67	68	1	20	SPARE
MOTORIZED DAMPERS	20	1	69	70	1	20	HIGH WATER ALARM PUMP
MOTORIZED DAMPERS	20	1	71	72	1	20	SPARE
FFH-1	15	1	73	74	1	20	SPARE
FFH-2	15	1	75	76	1	15	SPARE
	15	1	77	78	2	20	SPARE
SPARE	15	1	79	80			
SPARE	15	1	81	82	2	20	SPARE
SPARE	15	1	83	84			

* GFCI BREAKER

