

## Electrical Addendum

**Project:** Nanoose Bay Water Treatment Plant  
Generator  
Nanoose, BC  
18-2990

**Addendum:** E1

**Date:** April 12, 2019

This Addendum forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts. The cost of all work contained herein shall be included in the Contract Sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above named project to the extent referenced and shall become part thereof.

The following are questions received from Bidders:

*Q) The ATS specifications call for NEMA 1 Enclosure and drawing E-1 states NEMA 3R. Please Clarify.*

A) ATS to be provided with NEMA 3R enclosure for installation on exterior of building.

*Q) Specifications call for 11ga satin-coated steel enclosure for generator. Is 14ga steel acceptable?*

A) 14ga is acceptable.

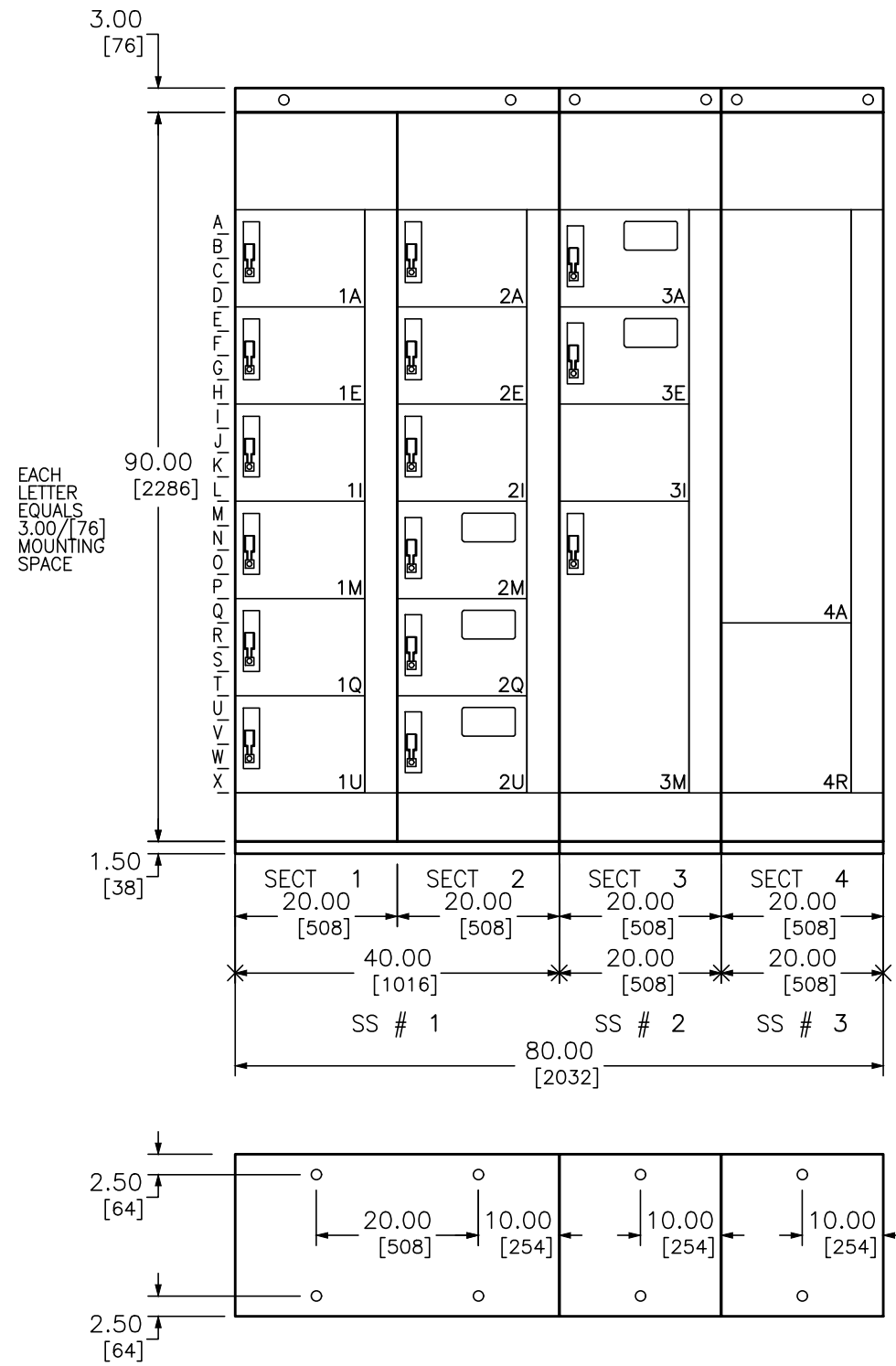
*Q) Specified sound level is 72dBA @ 7m while running at 75% loading. Is 73dBA at full load (71dBA at no load) acceptable?*

A) Sound rating is to be 72dBA @ 7m while running at **full** load.


The following were noted at the site visit:

- 1) All penetrations through the wall structure surrounding the washroom and electrical room are to be completely sealed to prevent the ingress of air from the main treatment area. Sealing can be obtained by appropriate fire blocking compounds.
- 2) There is insufficient space in the existing cable tray to run the new wiring. Contractor to install Unistrut bracing above or below the cable tray and fasten the new cables to the Unistrut with appropriate fasteners.
- 3) The shop drawing for the existing MCC is attached to this addendum for information only. The Contractor is responsible for reviewing the installation prior to completing any modifications and no allowance will be given for additional work based on discovered site condition after the fact.

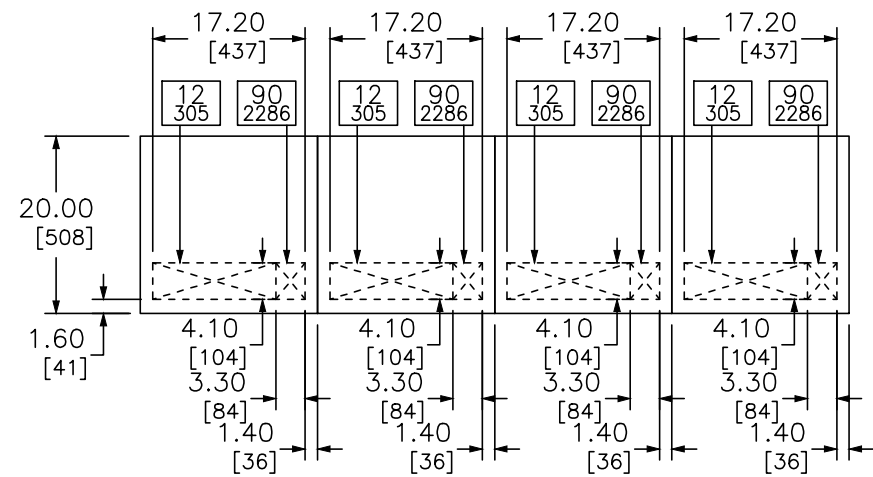
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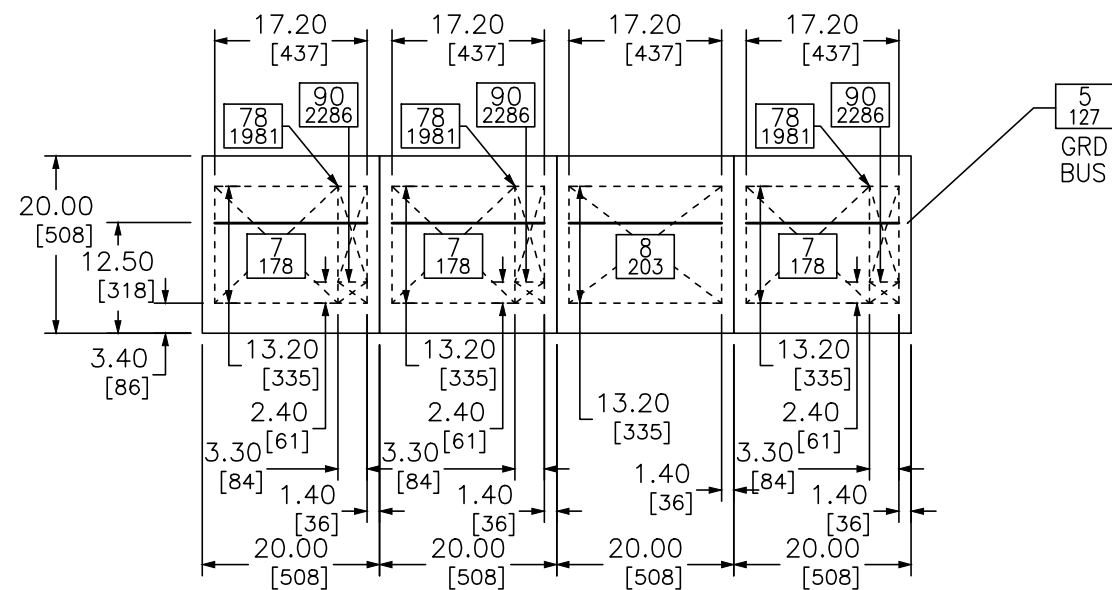
DUAL DIMENSIONS: INCHES  
MILLIMETERS

JOB NAME:	NANOOSE BAY PENINSULA WTP MCC	EQUIPMENT DESIGNATION:	15-MCC-950
JOB LOCATION:	NANAIMO, BC	EQUIPMENT TYPE:	MODEL 6 MOTOR CONTROL CENTER
DRAWN BY:	CAD	DRAWING TYPE:	ELEVATION
ENGR:	DU		
DATE:	SEPTEMBER 14, 2011		
DRAWING STATUS:	RECORD	DWG# F30057286-001-01	PG 1 OF 3 REV B

REV	DESCRIPTION	BY	DATE	B	REVISED & RELEASED TO MANUFACTURING	KP	01/10/2012	-	----	--	--/--/--
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TOP VIEW



FLOOR VIEW

DUAL DIMENSIONS: INCHES  
MILLIMETERS

CROSSED AREA REPRESENTS CONDUIT ENTRY AREA. NUMBERS IN BOXES INDICATE VERTICAL CLEARANCE TO NEAREST OBSTRUCTION.

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## GENERAL NOTES

Class 1 Type B Wiring

## PRODUCT DESCRIPTION AND RATINGS

### POWER SYSTEM DATA:

600V 3PH 3W 60Hz  
SHORT CIRCUIT RATING: 42kA  
POWER CONNECTS TO EXISTING  
CONTROL POWER: 120Vac

### BUS SYSTEM DATA:

MAIN HORIZONTAL BUS: 600 Amp Copper/Tin Plated / 1.5"  
BUS BRACING: 42kA  
VERTICAL BUS: 300 Amp Tin Plated Copper  
HORIZONTAL GROUND BUS: .25" X 2.0" (6.35mm X 50.8mm) Tin Plated Copper  
Units Securely Grounded To Structure

### ENCLOSURE DATA:

ENCLOSURE TYPE: 20" DEEP Type 1A  
EXTERIOR COLOR: Electrodeposition Finish ANSI 49 Medium Light Grey  
INTERIOR COLOR: Electrodeposition Finish White

### STRUCTURE MODIFICATIONS:


Ground Bus Lug  
Rodent Barriers 1,4  
Manual Bus Shutters 1,2,3,4  
Fishtape Barriers 1,2,3,4  
Copper Vertical Ground Bus 1,2,3,4  
Splice to M6 L

### EQUIPMENT WEIGHT:

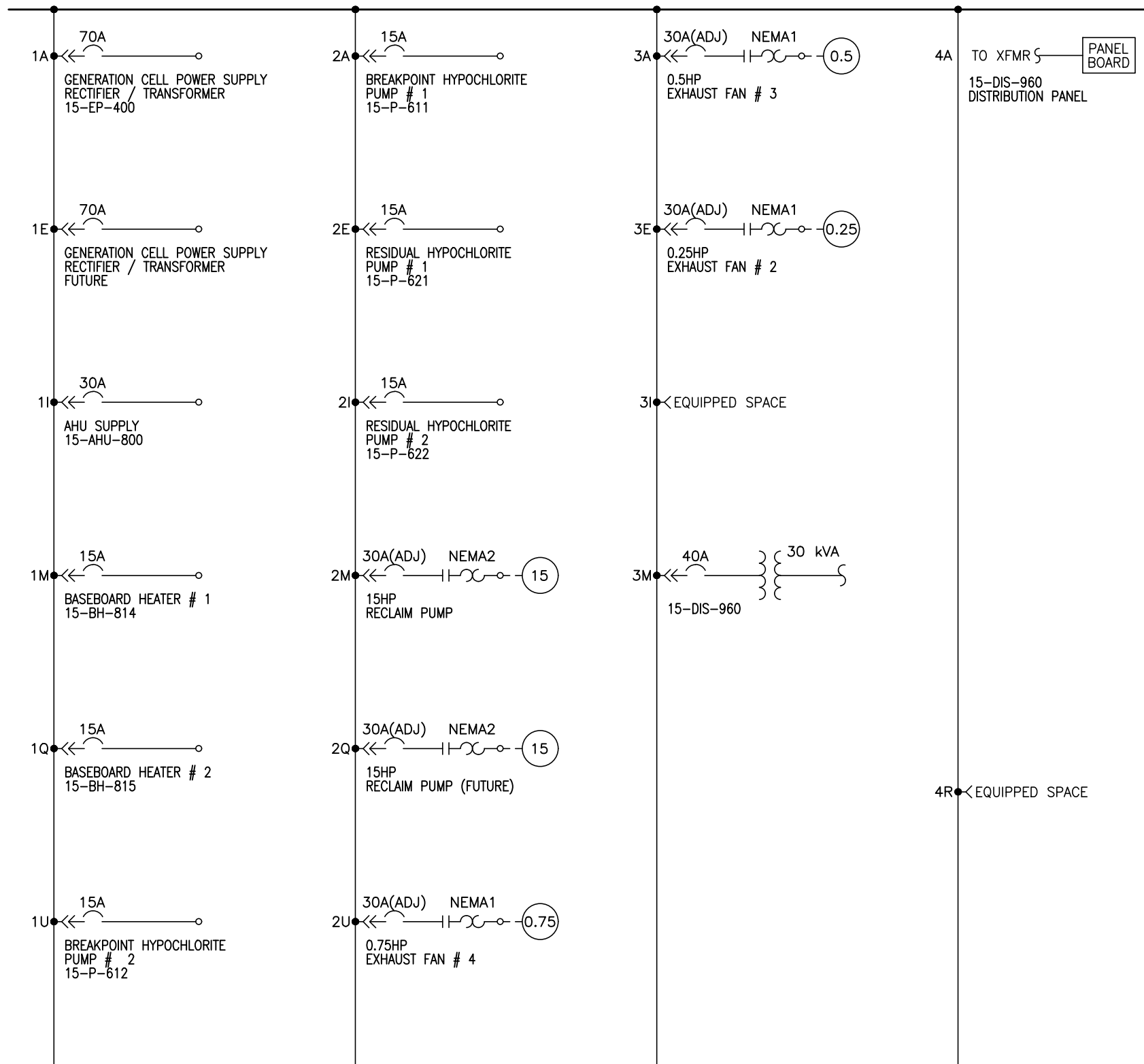
SHIPPING SPLIT # 1: 1500.00 Lbs. (680.40 Kg.)  
SHIPPING SPLIT # 2: 875.00 Lbs. (396.90 Kg.)  
SHIPPING SPLIT # 3: 750.00 Lbs. (340.20 Kg.)  
TOTAL LINEUP WEIGHT (APPROX): 3125.00 Lbs. (1417.50 Kg.)

### PRODUCT ACCESSORIES:

See Unit Features  
TeSys T Handheld Display  
Power Suite Software Kit

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DRAWN BY:	CAD	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:	DU		
DATE:	SEPTEMBER 14, 2011		
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		PG	1 OF 1
		REV	B

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		UNIT 2M	UNIT 2Q	UNIT 2U	UNIT 3A						
	FIRMWARE	2.1.0/2.2.0	2.1.0/2.2.0	2.1.0/2.2.0	2.1.0/2.2.0						
	CURRENT RANGE	5-100A	5-100A	0.4-8A	0.4-8A						
	NETWORK	MODBUS	MODBUS	MODBUS	MODBUS						
	CONTROL VOLTAGE	100-240VAC	100-240VAC	100-240VAC	100-240VAC						
	L> INPUT CONFIGURATION	<170V 60HZ	<170V 60HZ	<170V 60HZ	<170V 60HZ						
	NOMINAL VOLTAGE	600V	600V	600V	600V						
	LOAD CT PRIMARY TURNS*	1	1	1	1						
	LOAD CT SECONDARY TURNS*	1	1	1	1						
	LOAD CT NUMBER OF PASSES*	1	1	1	1						
	GROUND CURRENT MODE*	INTERNAL	INTERNAL	INTERNAL	INTERNAL						
	GROUND CURRENT FAULT*	NO	NO	NO	NO						
	GROUND CT PRIMARY TURNS*	1	1	1	1						
	GROUND CT SECONDARY TURNS*	1	1	1	1						
	TRIP TYPE*	INVERSE THERMAL	INVERSE THERMAL	INVERSE THERMAL	INVERSE THERMAL						
	L> TRIP CLASS	20	20	20	20						
	CURRENT PHASE IMBALANCE FAULT ENABLE	NO	NO	NO	NO						
	CURRENT PHASE IMBALANCE WARNING ENABLE	YES	YES	YES	YES						
	LONG START	YES	YES	YES	YES						
	JAM	YES	YES	YES	YES						
	VOLTAGE PHASE IMBALANCE WARNING ENABLE	NO	NO	NO	NO						
	VOLTAGE PHASE LOSS FAULT ENABLE	NO	NO	NO	NO						
	VOLTAGE PHASE LOSS WARNING ENABLE	NO	NO	NO	NO						
	VOLTAGE PHASE REVERSAL FAULT ENABLE	NO	NO	NO	NO						
	UNDER VOLTAGE FAULT ENABLE	NO	NO	NO	NO						
	UNDER VOLTAGE WARNING ENABLE	NO	NO	NO	NO						
	OVER VOLTAGE FAULT ENABLE	NO	NO	NO	NO						
	OVER VOLTAGE WARNING ENABLE	NO	NO	NO	NO						
	LOCAL CONTROL CHANNEL	TERMINAL STRIP	TERMINAL STRIP	TERMINAL STRIP	TERMINAL STRIP						
	ON-OFF DIAGNOSTIC FAULT ENABLE	NO	NO	NO	NO						
	WIRING ERROR FAULT ENABLE	NO	NO	NO	NO						
	RESET MODE	REMOTE	REMOTE	REMOTE	REMOTE						
	OPERATING MODE*	2 Wire Overload	2 Wire Overload	2 Wire Overload	2 Wire Overload						
	STAR-DELTA*	NO	NO	NO	NO						
	CONTACTOR RATING*	45	45	27	27						
	HMI MODBUS ADDRESS	1	1	1	1						
	HMI COMM LOSS WARNING ENABLE	NO	NO	NO	NO						
	DISPLAY SETTINGS -> DISPLAY ALL	YES	YES	YES	YES						
	MODBUS ADDRESS	1	1	1	1						
	MODBUS BAUD RATE	19200	19200	19200	19200						
	MODBUS COMM LOSS WARNING ENABLE	YES	YES	YES	YES						

\* CAN BE SET ONLY IN CONFIGURATION MODE


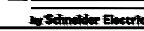
NOTE: REFER TO 'APPENDIX B: CONFIGURABLE PARAMETERS' IN TESYS T USER'S MANUAL FOR ADDITIONAL INFORMATION.

ALSO, IF THERE IS AN HMI IN THE SYSTEM, PLEASE REFER TO THE TESYS T LTM CU CONTROL OPERATOR UNIT USER'S MANUAL.

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JOB LOCATION:	NANAIMO, BC	EQUIPMENT TYPE:	MODEL 6 MOTOR CONTROL CENTER
DRAWN BY:	CAD	DRAWING TYPE:	PARAMETER SETTINGS
ENGR:	DU		
DATE:	SEPTEMBER 14, 2011		
DRAWING STATUS:	RECORD	DWG#	P30057286-001-01
		PG 1	OF 1
		REV B	


REV	DESCRIPTION	BY	DATE	B	REVISED & RELEASED TO MANUFACTURING	KP	01/10/2012	-	----	---	---/---/---
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UNIT LOC	NAMEPLATE DESIGNATION (WHITE SURFACE/BLACK LETTERS)	UNIT TYPE	SIZE	HP	FRAME AMPS	TRIP AMPS	CONTROL SOURCE	VA	FUSE SIZE		INTERLOCKS		PILOT DEVICE FEATURES 22 mm- XB5		OTHER UNIT FEATURES	ELEMENTARY #		
									PRI	SEC	NO	NC	ON LIGHT	OFF LIGHT			ADDL P/L	SS / PB
1A	GENERATION CELL POWER SUPPLY RECTIFIER / TRANSFORMER 15-EP-400	BRANCH BKR			HL 150	70									14-3/0AWG 1 LUG/PH	E30057286-001-01		
1E	GENERATION CELL POWER SUPPLY RECTIFIER / TRANSFORMER FUTURE	BRANCH BKR			HL 150	70									14-3/0AWG 1 LUG/PH	E30057286-001-01		
1I	AHU SUPPLY 15-AHU-800	BRANCH BKR			HL 150	30									14-3/0AWG 1 LUG/PH	E30057286-001-02		
1M	BASEBOARD HEATER # 1 15-BH-814	BRANCH BKR			HL 150	15									14-3/0AWG 1 LUG/PH	E30057286-001-03		
1Q	BASEBOARD HEATER # 2 15-BH-815	BRANCH BKR			HL 150	15									14-3/0AWG 1 LUG/PH	E30057286-001-03		
1U	BREAKPOINT HYPOCHLORITE PUMP # 2 15-P-612	BRANCH BKR			HL 150	15									14-3/0AWG 1 LUG/PH	E30057286-001-03		
2A	BREAKPOINT HYPOCHLORITE PUMP # 1 15-P-611	BRANCH BKR			HL 150	15									14-3/0AWG 1 LUG/PH	E30057286-001-03		
2E	RESIDUAL HYPOCHLORITE PUMP # 1 15-P-621	BRANCH BKR			HL 150	15									14-3/0AWG 1 LUG/PH	E30057286-001-03		
2I	RESIDUAL HYPOCHLORITE PUMP # 2 15-P-622	BRANCH BKR			HL 150	15									14-3/0AWG 1 LUG/PH	E30057286-001-03		
2M	15HP RECLAIM PUMP	FVNR	NEMA 2	15	HL 150	ADJ 30	CONTROL TRANSFORMER	100	.50	1.00	2	2	GREEN	RED	#16 AWG MTW CONTROL WIRE, 600V SYSTEM, CNTRL TRANSFORMER TAPS, MODBUS 2-WIRE, MOTOR CIRCUIT PROTECTOR, RESET PB, RJ45 PORT, Tesys T OL, TRANSIENT SUPPRESSION, WIRED RELAY	E30057286-001-04		
2Q	15HP RECLAIM PUMP (FUTURE)	FVNR	NEMA 2	15	HL 150	ADJ 30	CONTROL TRANSFORMER	100	.50	1.00	2	2	GREEN	RED	#16 AWG MTW CONTROL WIRE, 600V SYSTEM, CNTRL TRANSFORMER TAPS, MODBUS 2-WIRE, MOTOR CIRCUIT PROTECTOR, RESET PB, RJ45 PORT, Tesys T OL, TRANSIENT SUPPRESSION, WIRED RELAY	E30057286-001-04		
2U	0.75HP EXHAUST FAN # 4	FVNR	NEMA 1	0.75	HL 150	ADJ 30	CONTROL TRANSFORMER	100	.50	1.00	2	2	GREEN	RED	#16 AWG MTW CONTROL WIRE, 600V SYSTEM, CNTRL TRANSFORMER TAPS, MODBUS 2-WIRE, MOTOR CIRCUIT PROTECTOR, RESET PB, RJ45 PORT, Tesys T OL, TRANSIENT SUPPRESSION, WIRED RELAY	E30057286-001-05		
UNIT LOC	NAMEPLATE DESIGNATION	UNIT TYPE	SIZE	HP	FRAME AMPS	TRIP AMPS	CONTROL SOURCE	VA	PRI	SEC	NO	NC	ON LIGHT	OFF LIGHT	ADDL P/L	SS / PB	OTHER UNIT FEATURES	ELEMENTARY #

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DRAWN BY:	CAD	DRAWING TYPE:	UNIT INFORMATION
ENGR:	DU		
DATE:	SEPTEMBER 14, 2011		
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		PG 1	OF 2
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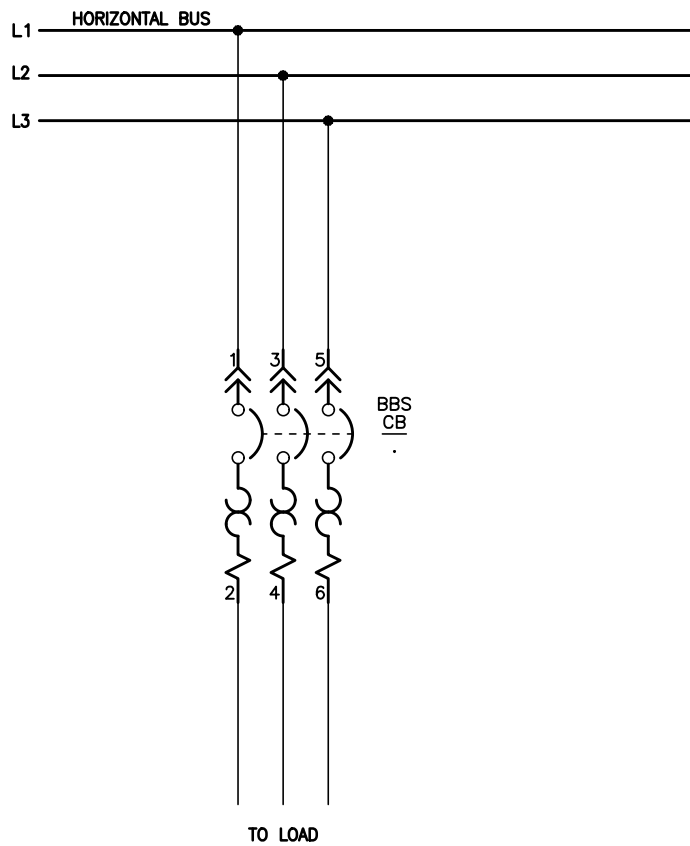
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									PRI	SEC	NO	NC	ON LIGHT	OFF LIGHT	ADDL P/L			SS / PB
3A	0.5HP EXHAUST FAN # 3	FVNR	NEMA 1	0.5	HL 150	ADJ 30	CONTROL TRANSFORMER	100	.50	1.00	2	2	GREEN		RED	#16 AWG MTW CONTROL WIRE, 600V SYSTEM, CNTRL TRANSFORMER TAPS, MODBUS 2-WIRE, MOTOR CIRCUIT PROTECTOR, RESET PB, RJ45 PORT, Tesys T OL, TRANSIENT SUPPRESSION, WIRED RELAY	E30057286-001-05	
3E	0.25HP EXHAUST FAN # 2	FVNR	NEMA 1	0.25	HL 150	ADJ 30	CONTROL TRANSFORMER	100	.50	1.00	2	2	GREEN		RED	#14 AWG MTW CONTROL WIRE, 600V SYSTEM, CNTRL TRANSFORMER TAPS, FACTORY PROVIDED THERM UNIT, MELTING ALLOY O/L, MOTOR CIRCUIT PROTECTOR, TRANSIENT SUPPRESSION, WIRED RELAY	E30057286-001-06	
3I		SPACE																
3M	15-DIS-960	3PH DIST XFMR	30 KVA		HL 150	40										SECONDARY WIRE TO PANELBOARD	E30057286-001-07	
4A	15-DIS-960 DISTRIBUTION PANEL	PANEL BOARD	225A		QB											42 CIRCUITS, FULLY RATED, NQ, (1) QOB230, (20) QOB115, (2) QOB115GFI,	E30057286-001-08	
4R		SPACE																
UNIT LOC	NAMEPLATE DESIGNATION	UNIT TYPE	SIZE	HP	FRAME AMPS	TRIP AMPS	CONTROL SOURCE	VA	PRI	SEC	NO	NC	ON LIGHT	OFF LIGHT	ADDL P/L	SS / PB	OTHER UNIT FEATURES	ELEMENTARY #

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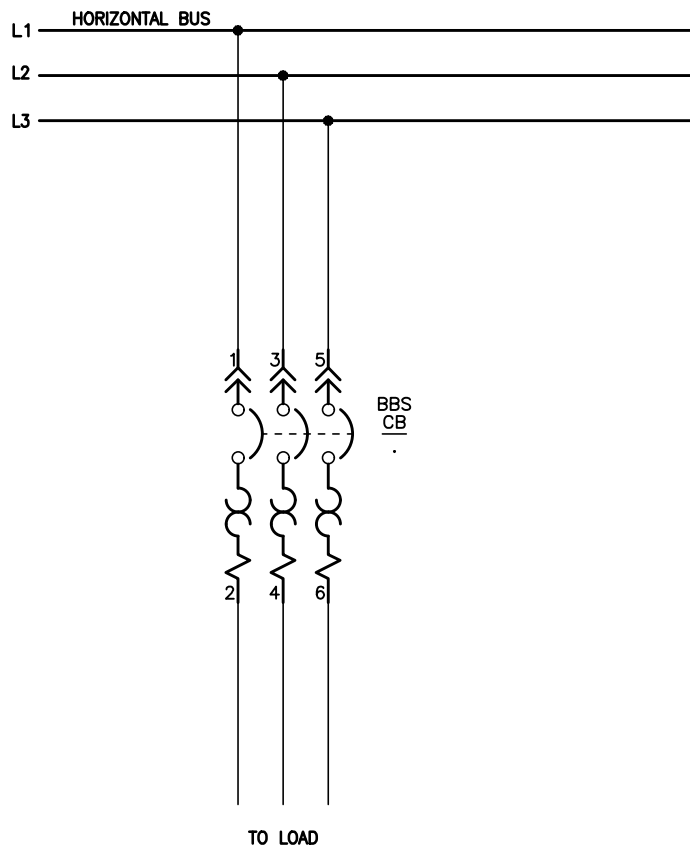



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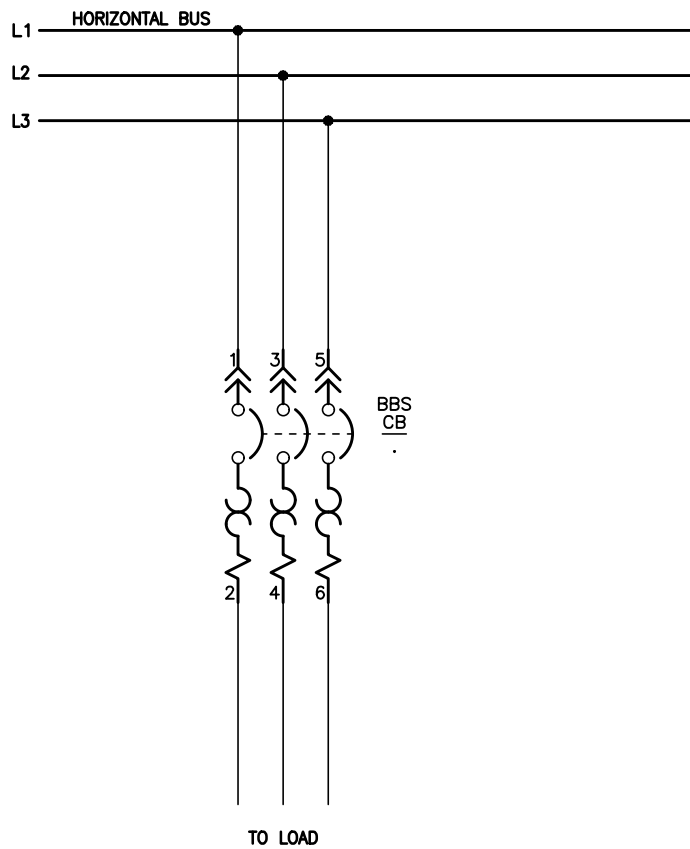
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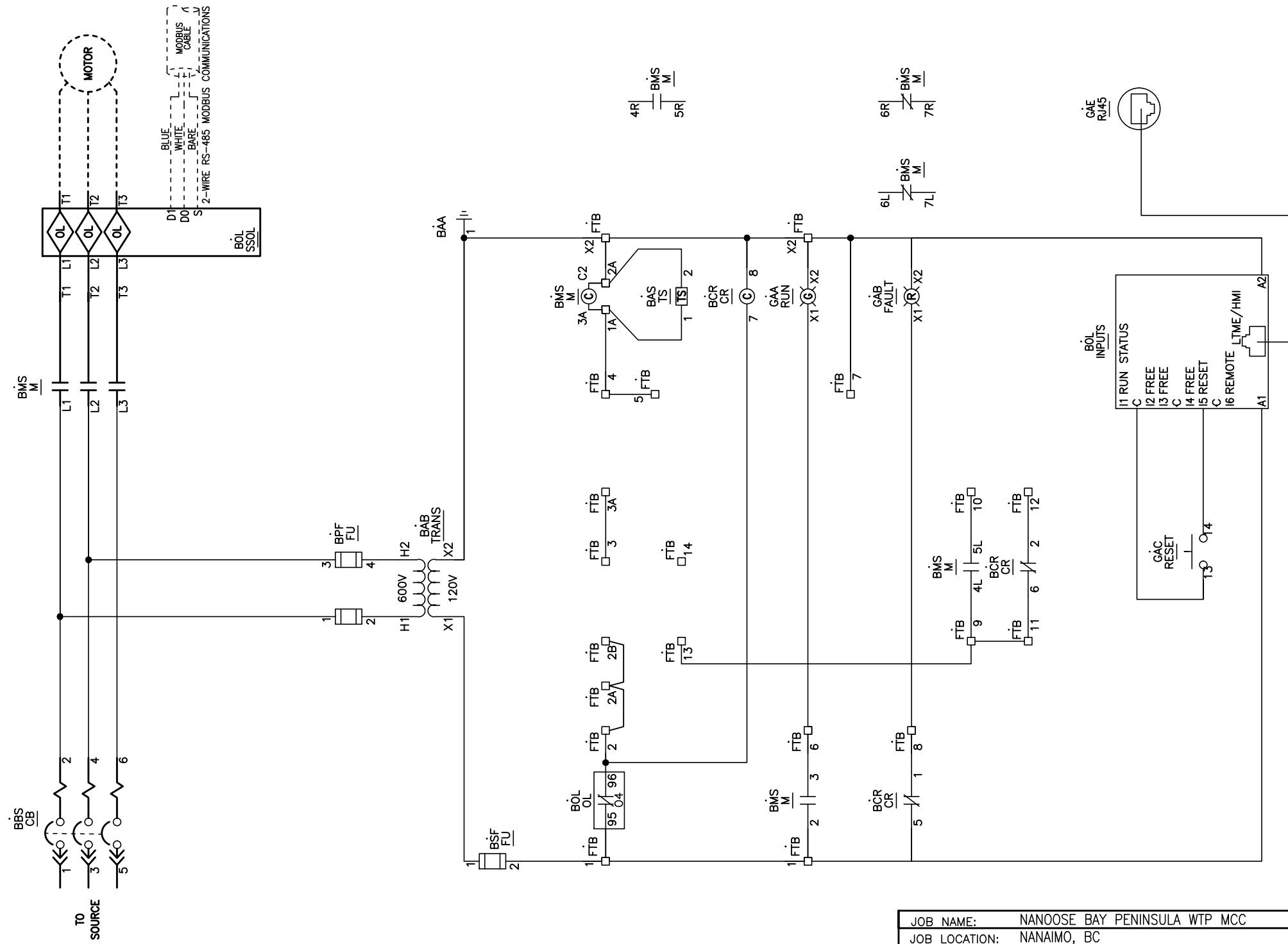
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		PG 1	OF 1
		REV B	

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A	REVISED & RESUBMITTED FOR APPROVAL	KP	12/08/2011	C	CORRECTED TERMINAL NUMBERS	KP	02/02/2012	-	----				

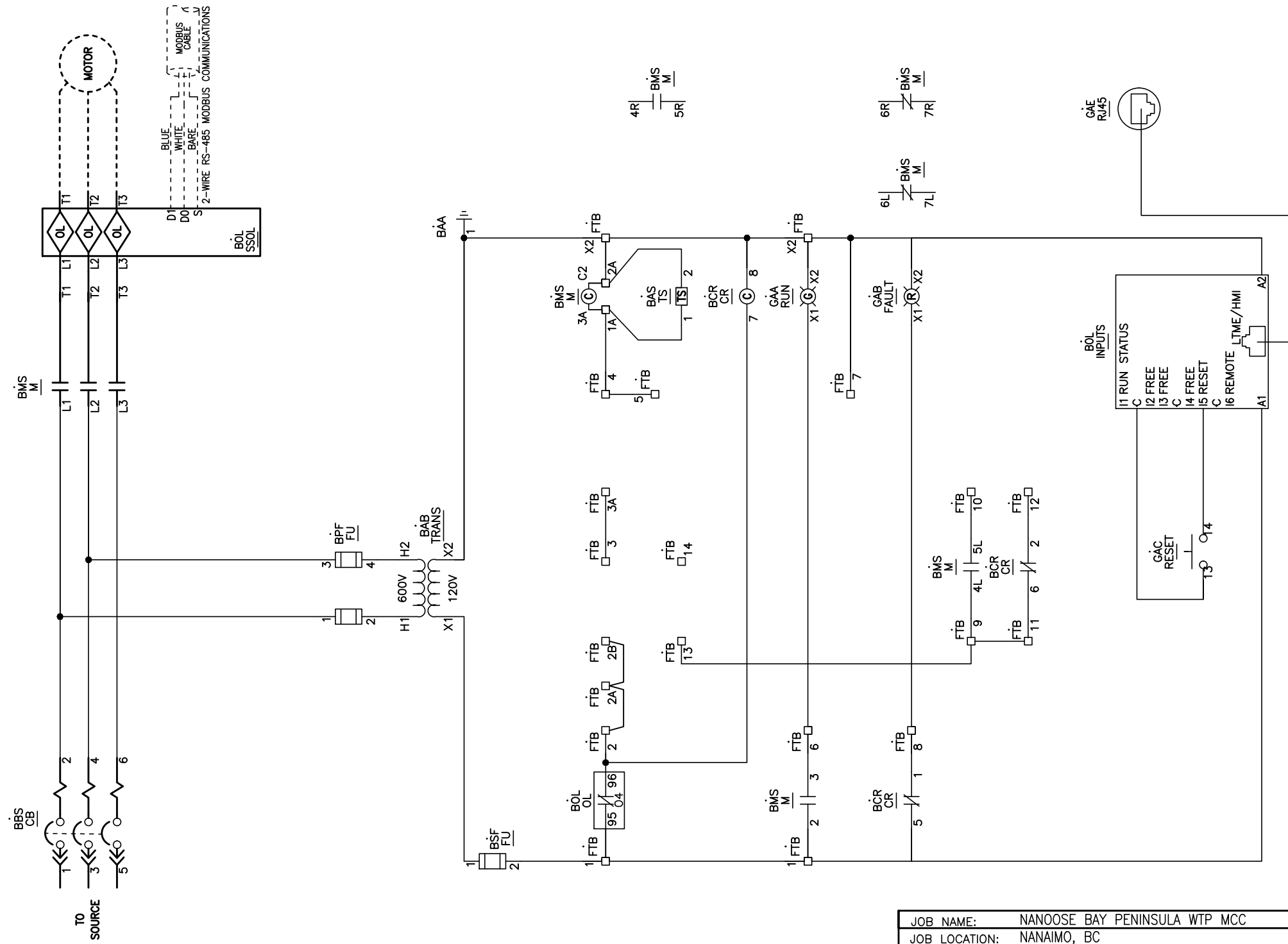


X2	X2	1	1	2	2A	2B	3	3A	4	5	6	7	8	9	10	11	12	13	14
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2 Wire Overload OPERATING MODE

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		PG 1	OF 1
		REV C	

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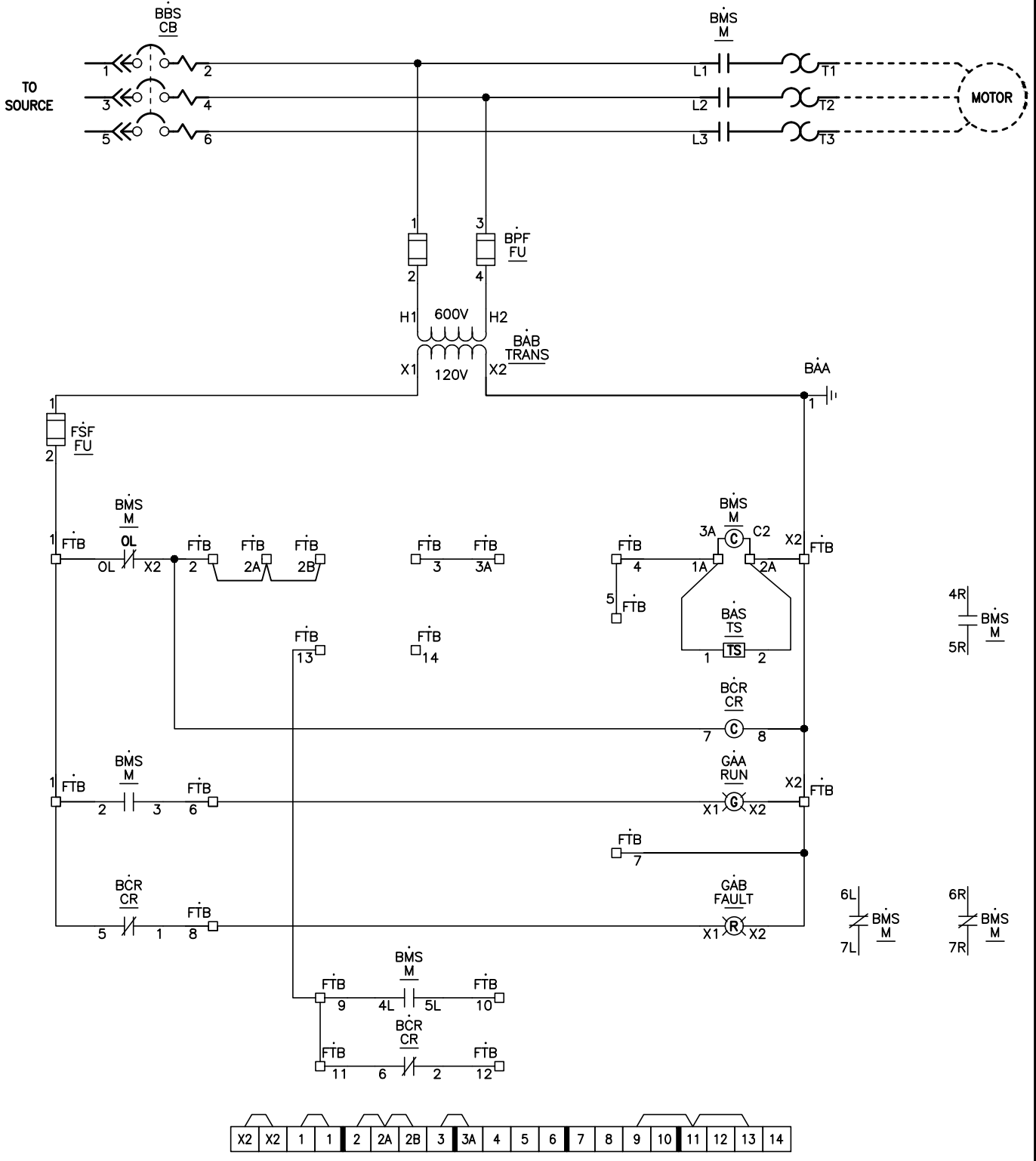
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		PG 1	OF 1
		REV	C

X2	X2	1	1	2	2A	2B	3	3A	4	5	6	7	8	9	10	11	12	13	14
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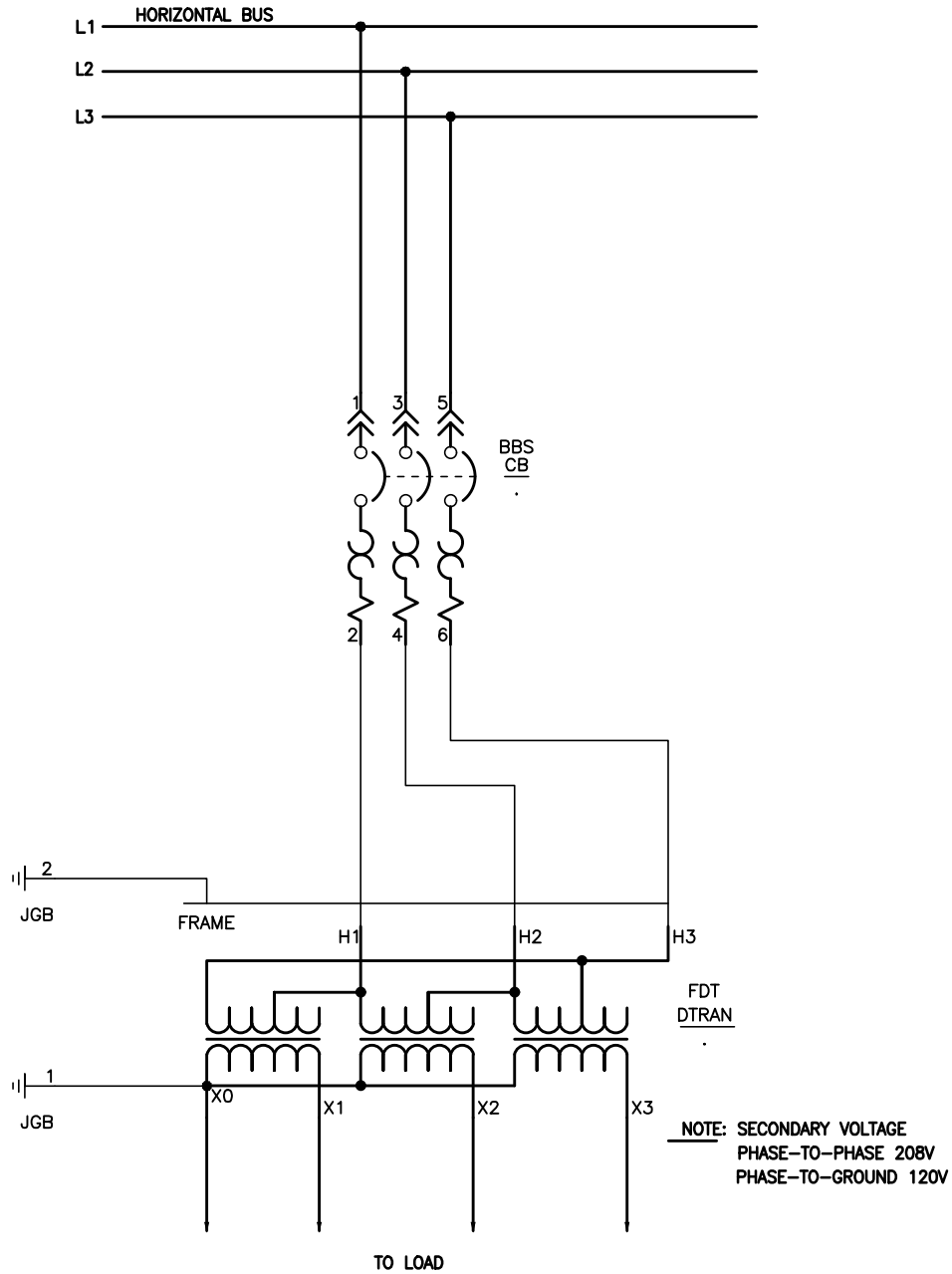
14M




FACTORY PROVIDED THERMAL UNITS

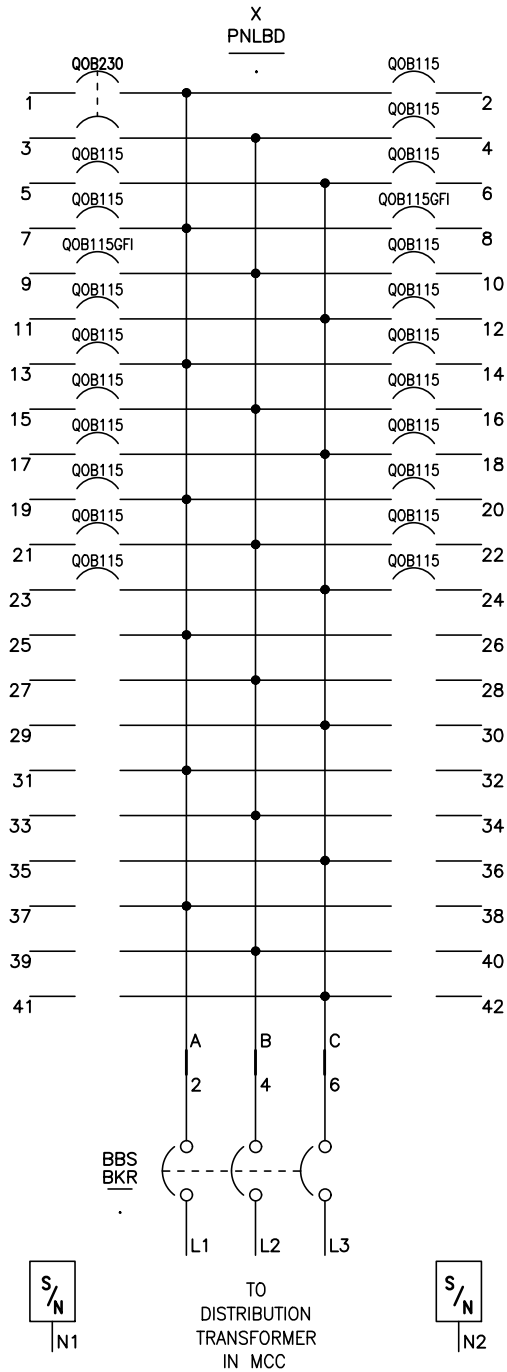
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DRAWING STATUS:	RECORD	DWG#	E30057286-001-06
		PG 1	OF 1
		REV C	


REV	DESCRIPTION	BY	DATE	B	REVISED & RELEASED TO MANUFACTURING	KP	01/10/2012
A	REVISED & RESUBMITTED FOR APPROVAL	KP	12/08/2011	-	----	--	--/--/--



JOB NAME:	NANOOSE BAY PENINSULA WTP MCC	EQUIPMENT DESIGNATION:	15-MCC-950
JOB LOCATION:	NANAIMO, BC	EQUIPMENT TYPE:	MODEL 6 MOTOR CONTROL CENTER
DRAWN BY:	CAD	DRAWING TYPE:	ELEMENTARY
ENGR:	DU		
DATE:	SEPTEMBER 14, 2011		
DRAWING STATUS:	RECORD	DWG#	E30057286-001-07
		PG 1	OF 1
		REV B	

REV	DESCRIPTION	BY	DATE	B	REVISED & RELEASED TO MANUFACTURING	KP	01/10/2012
A	REVISED & RESUBMITTED FOR APPROVAL	KP	12/08/2011	-	----	--	--/--/--



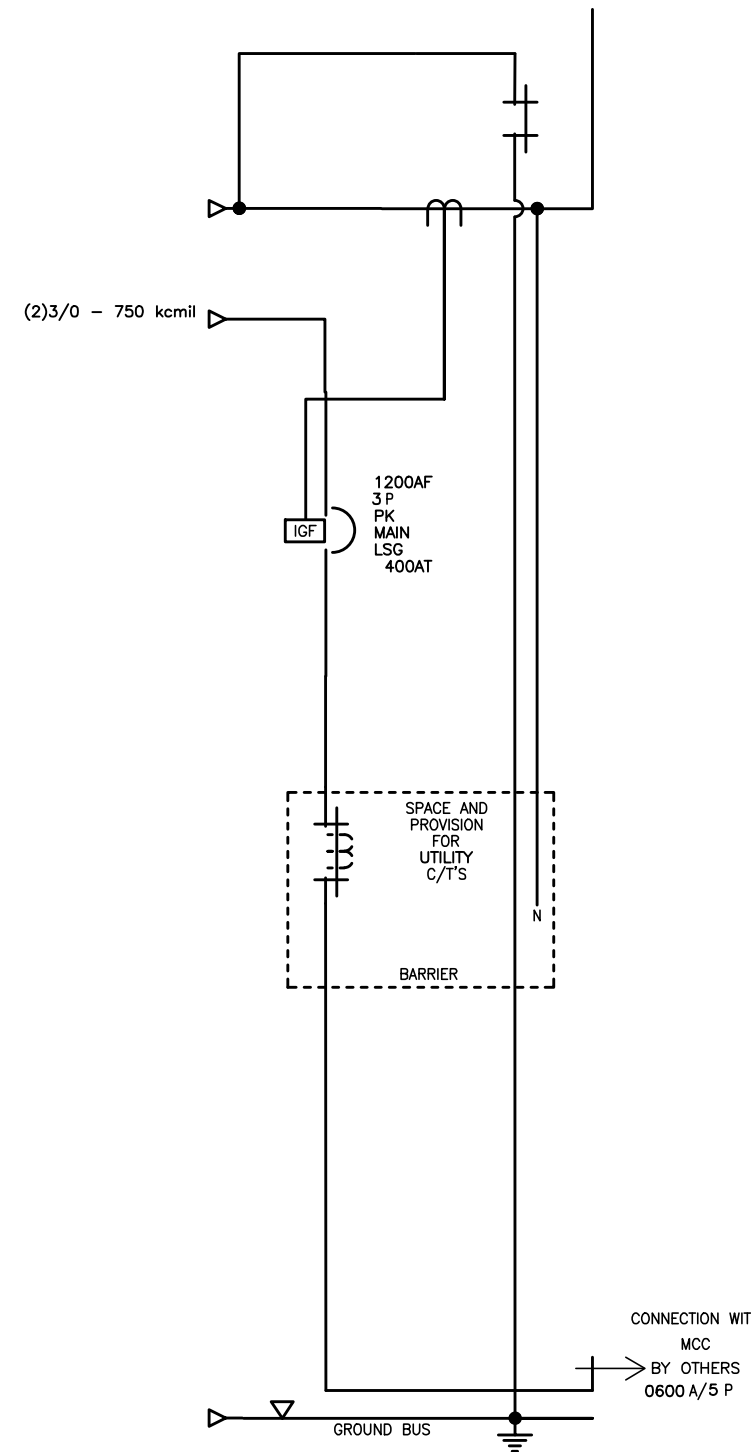
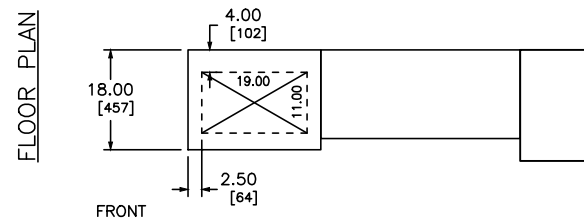
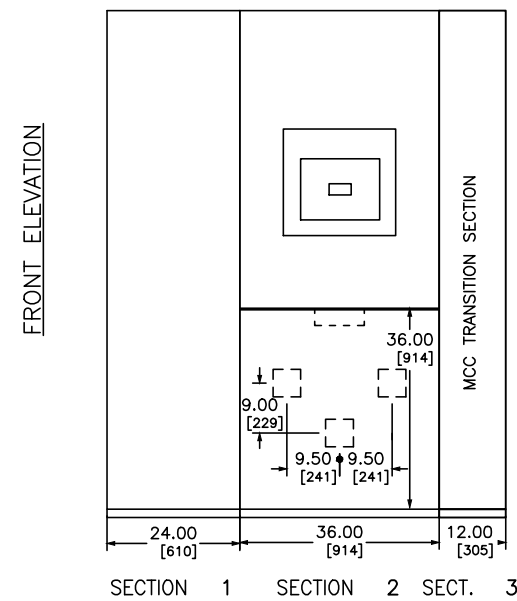
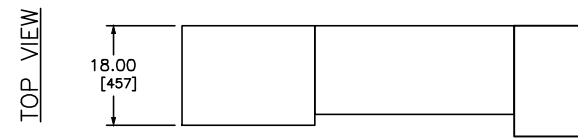
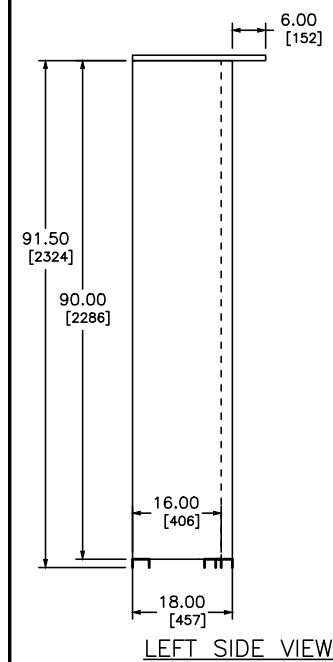
JOB NAME:	NANOOSE BAY PENINSULA WTP MCC	EQUIPMENT DESIGNATION:	15-MCC-950
JOB LOCATION:	NANAIMO, BC	EQUIPMENT TYPE:	MODEL 6 MOTOR CONTROL CENTER
DRAWN BY:	CAD	DRAWING TYPE:	ELEMENTARY
ENGR:	DU		
DATE:	SEPTEMBER 14, 2011		
DRAWING STATUS:	RECORD	DWG#	E30057286-001-08
		PG 1	OF 1
		REV B	



REV	DESCRIPTION	BY	DATE	B	REVISION	KP	DATE	---	---	---	---
A	REVISED & RESUBMITTED FOR APPROVAL	KP	10/05/2011	C	RELEASED TO MANUFACTURING	KP	01/10/2012	-	----	---	---
				B	REVISED & RESUBMITTED FOR APPROVAL	KP	10/14/2011	-	----	---	---

**GENERAL NOTES**

INCOMING FEED: BUSSED BC WIREWAY BOTTOM LEFT  
 SYSTEM VOLTAGE: 347/600 3-PH 4-W  
 MAX. AVAILABLE SHORT CIRCUIT CAPACITY  
 OF SYSTEM: 42,000 A RMS SYM  
 SYSTEM AMPERAGE: 0600 AMPS  
 BUS MATERIAL: COPPER  
 ACCESSIBILITY: FRONT  
 ENCLOSURE: TYPE 1 C/W DRIPHOOD  
 COLOUR: ANSI 49  
 SERVICE ENTRANCE  
 NOT SUITABLE FOR MOUNTING,  
 ON COMBUSTIBLE FLOOR  
 SWBD MK: MAIN 400AT




JOB NAME:	NANOSE BAY PENINSULA WTP MCC	EQUIPMENT DESIGNATION:	MAIN 400AT
JOB LOCATION:	NANAIMO, BC	EQUIPMENT TYPE:	MS16 SWITCHBOARD
DRAWN BY:	CAD	DRAWING TYPE:	ELEVATION
ENGR:	DU		
DATE:	SEPTEMBER 14, 2011		
DRAWING STATUS:	RECORD	DWG# F30057286-002-01	PG 1 OF 1 REV C

REV	DESCRIPTION	BY	DATE	B	REVISED & RESUBMITTED FOR APPROVAL	KP	10/14/2011	-	----	--	--/--/--
A	REVISED & RESUBMITTED FOR APPROVAL	KP	10/05/2011	C	RELEASED TO MANUFACTURING	KP	01/10/2012	-	----	--	--/--/--

DEVICE DATA TABLE

SECT NO	CKT NO	GMD HEIGHT	DEVICE TYPE	POLE QTY	MAXIMUM TRIP/FUSE AMPACITY	FUSE CLIP	MAX kA @ SYSTEM VOLTAGE	MICROLOGIC TRIP UNIT DETAILS					FEEDER LUG DETAILS			LOAD EXIT LOCATION	ACCESSORIES
								TRIP UNIT TYPE	TRIP SYSTEM	RATING PLUG	TRIP SETTING	MODEL REF	WIRE RANGE AL/CU	PHASE QTY	NEUT QTY		
2	SM	-	PK	3	400A	-	50kA	AMMETER	LSIG	PLUG-A	400A	6.0A	-	-	-	-	Q3,RA

ACCESSORIES LEGEND	
Q3	HANDLE PADLOCK BRACKET
RA	NCT

JOB NAME:	NANOOSE BAY PENINSULA WTP MCC	EQUIPMENT DESIGNATION:	MAIN 400AT
JOB LOCATION:	NANAIMO, BC	EQUIPMENT TYPE:	MS16 SWITCHBOARD
DRAWN BY:	CAD	DRAWING TYPE:	DEVICE DATA
ENGR:	DU		
DATE:	SEPTEMBER 14, 2011		
DRAWING STATUS:	RECORD	DWG#	F30057286-002-01