

LEGEND:

SYMBOL	DESCRIPTION
	CONNECTION
	EARTH
	PLUG AND SOCKET
	CABLE WITH PLUG
	FUSE ISOLATOR
	CONTACTOR WITH CONTROL COIL
	MCCB - 2 POLES MINIATURE CIRCUIT BREAKER (DRAW-OUT TYPE)
	MCCB - 3 POLES MOULDED CASE CIRCUIT BREAKER (DRAW-OUT TYPE)
	XXX - RATED CURRENT FOR CASE; Ir = xxA - RATED CURRENT FOR OVERLOAD RELEASE
	MCCB - 3 POLES MOULDED CASE CIRCUIT BREAKER (DRAW-OUT TYPE) NORMAL CLOSED
	SWITCH
	ELECTRIC MOTOR 3 PHASE; 60Hz
	ELECTRIC MOTOR 1 PHASE; 60Hz
	MOTOR STARTER
	VARIABLE FREQUENCY DRIVE
	STOP BUTTON
	START BUTTON/ RUNNING LAMP
	SWITCH
	TRANSFORMER; 3 PHASE
	GENERATOR 3 PHASE; 600V; 60Hz Δ/Δ
	TRANSFORMERS; 3 x 1PH. CONNECTED Δ/Δ
	UPS
	BATTERY CHARGER
	BATTERY
	HEATING ELEMENT
	MCCB - 3 POLES FOR GENERATORS (DRAW-OUT TYPE)
	STARTER MOUNTED IN SWITCHBOARD WITH BREAKER, CONTROL, THERMAL RELAY (DRAW-OUT TYPE)
	EARTH DETECTION RELAY
	SWITCHBOARDS / CONTROL PANEL
	SWITCH 2 POLE 115V; 60Hz; 15A; IP56; SURFACE
	TRANSFORMER 1PH.
	3 POLE DISCONNECT SWITCH
	SWITCH 3 POLE 230V; 60Hz; 15A; IP54; SURFACE
	MOTOR STARTER WITH START, STOP BUTTON AND SWITCH FOR REMOTE OR LOCAL CONTROL
	PRESSURE SWITCH
	JUNCTION BOX
	DISCONNECT SWITCH

GENERAL NOTES:

- ALL ELECTRICAL INSTALLATIONS ARE IN ACCORDANCE WITH: LRS RULES AND REGULATIONS FOR THE CLASSIFICATION OF SPECIAL SERVICE CRAFT, JULY 2009, VOL. 7, PART 16 (CONTROL AND ELECTRICAL ENGINEERING); TRANSPORT CANADA TP127E "SHIPS ELECTRICAL STANDARDS".
- "LOCAL" MEANS THAT THE STARTER/CONTROL PANELS ARE INSTALLED IN THE VICINITY OF MECHANICAL EQUIPMENT.
- SYMBOLS FOR ELECTRICAL EQUIPMENT ARE VALID FOR ALL SHEETS.

ABBREVIATIONS:

- BWA = BRAIDED WIRE ARMOUR
- ESB = EMERGENCY SWITCHBOARD
- FR = FIRE RESISTANT
- MCB = MINIATURE CIRCUIT BREAKER
- MCCB = MOULDED CASE CIRCUIT BREAKER
- MSB = MAIN SWITCHBOARD
- UPS = UNINTERRUPTIBLE POWER SUPPLY
- VFD = VARIABLE FREQUENCY DRIVE
- MCR = MACHINERY CONTROL ROOM
- MCS = MACHINERY CONTROL STATION
- PMS = POWER MANAGEMENT SYSTEM

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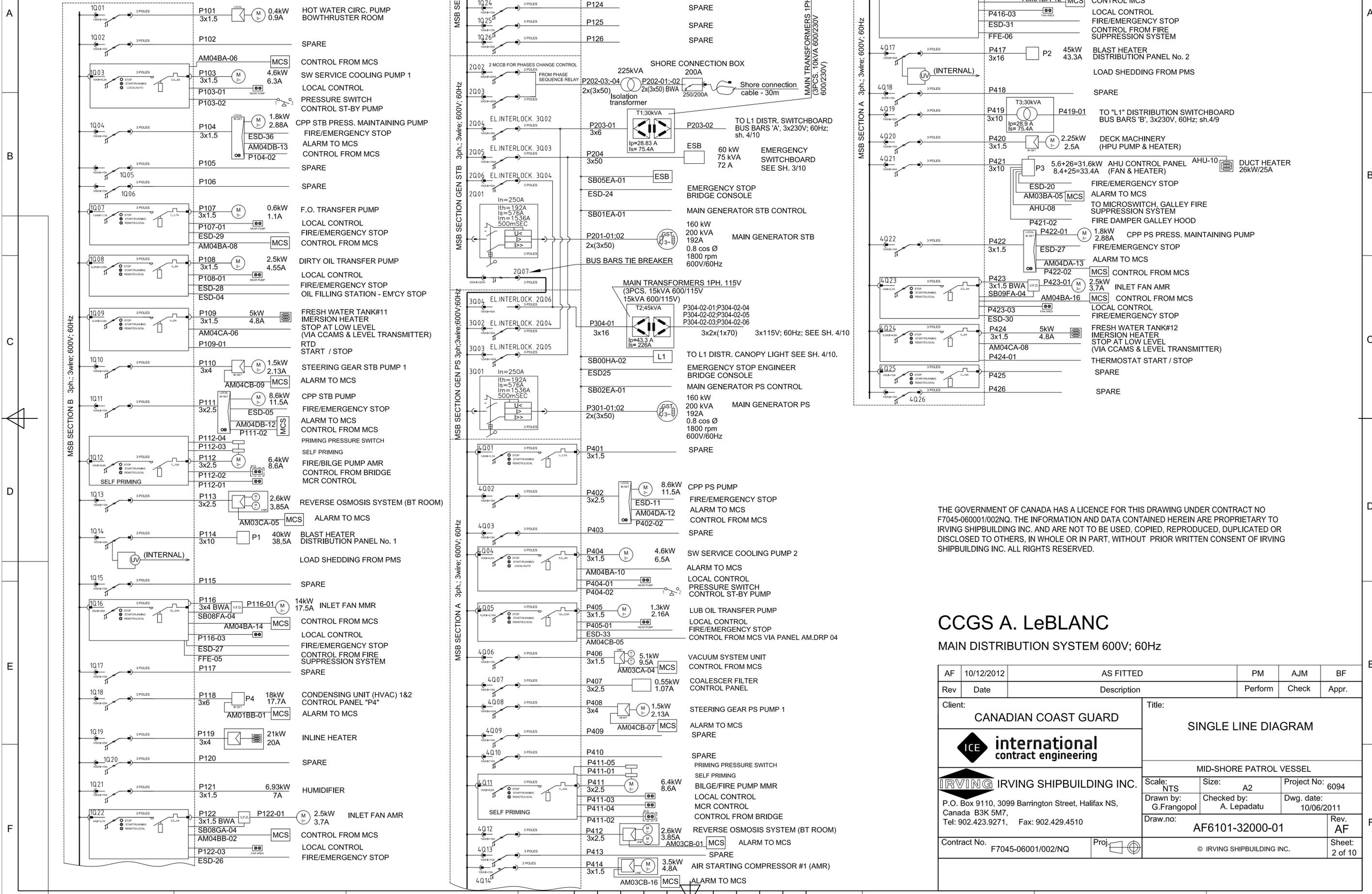
CCGS A. LeBLANC

AF	10/12/2012	AS FITTED	PM	AJM	BF
Rev	Date	Description	Perform	Check	Appr.
Client: CANADIAN COAST GUARD			Title: SINGLE LINE DIAGRAM		
			MID-SHORE PATROL VESSEL		
			Scale: NTS	Size: A2	Project No: 6094
P.O. Box 9110, 3099 Barrington Street, Halifax NS, Canada B3K 5M7, Tel: 902.423.9271, Fax: 902.429.4510			Drawn by: G.Frangopol	Checked by: A. Lepadatu	Dwg. date: 10/06/2011
Contract No. F7045-06001/002/NQ			Draw.no.: AF6101-32000-01		Rev. AF
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					Sheet: 1 of 10

REFERENCE DOCUMENTS

NO.	DESCRIPTION	DOCUMENT NUMBER
1	ELECTRICAL LOAD ANALYSIS	AF6101-83560-01

**MAIN SWITCHBOARD (MSB)
ARRANGED IN AUXILIARY MACHINERY ROOM**



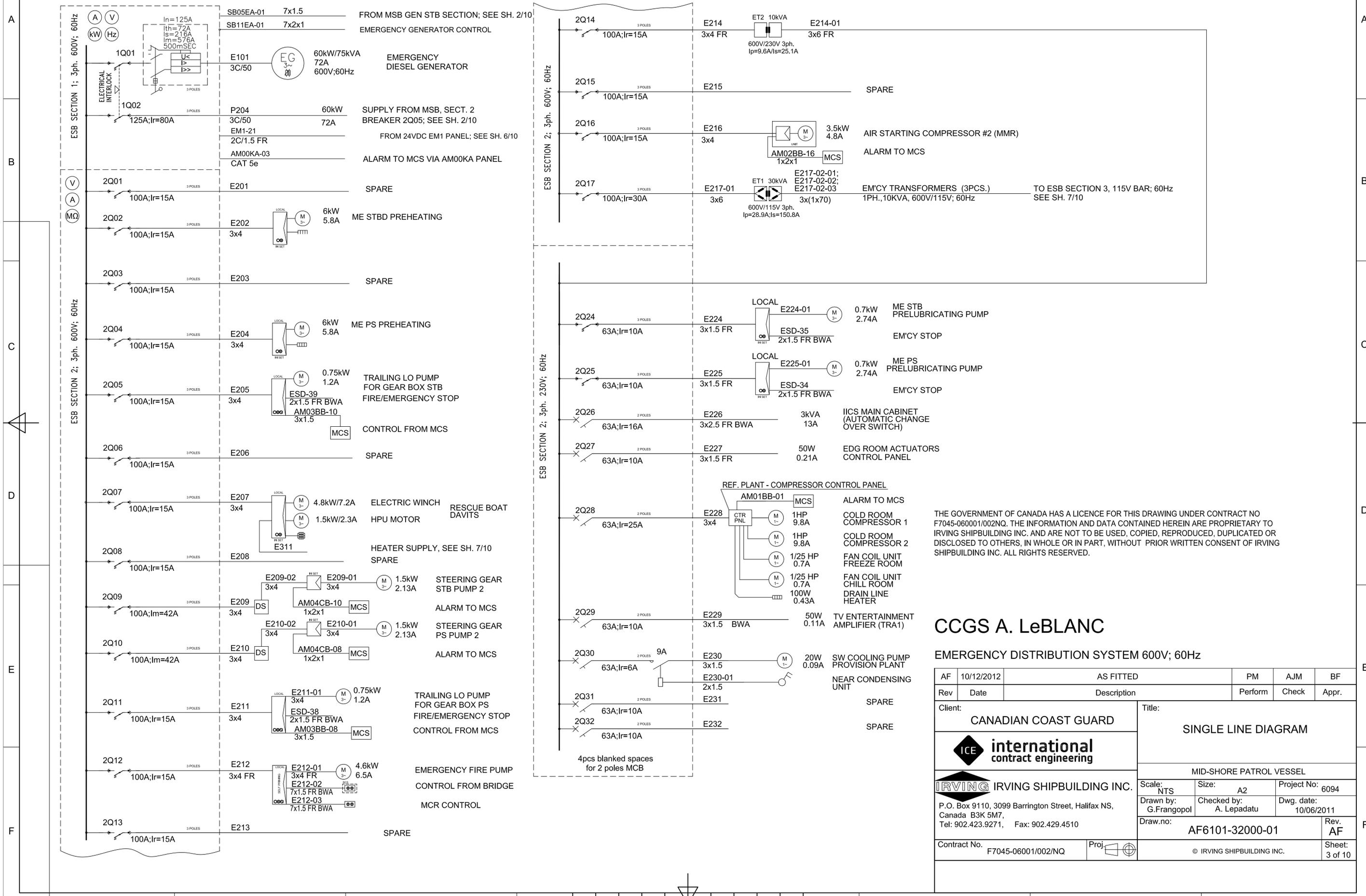
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**CCGS A. LeBLANC
MAIN DISTRIBUTION SYSTEM 600V; 60Hz**

AF	10/12/2012	AS FITTED	PM	AJM	BF
Rev	Date	Description	Perform	Check	Appr.
Client:		CANADIAN COAST GUARD	Title:		
			SINGLE LINE DIAGRAM		
MID-SHORE PATROL VESSEL					
Scale:	NTS	Size:	A2	Project No:	6094
Drawn by:	G. Frangopol	Checked by:	A. Lepadatu	Dwg. date:	10/06/2011
Draw.no:	AF6101-32000-01			Rev.	AF
Contract No.	F7045-06001/002/NQ	Proj.	© IRVING SHIPBUILDING INC.		
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**EMERGENCY SWITCHBOARD (ESB)
ARRANGED IN EMERGENCY D.G. COMP.**



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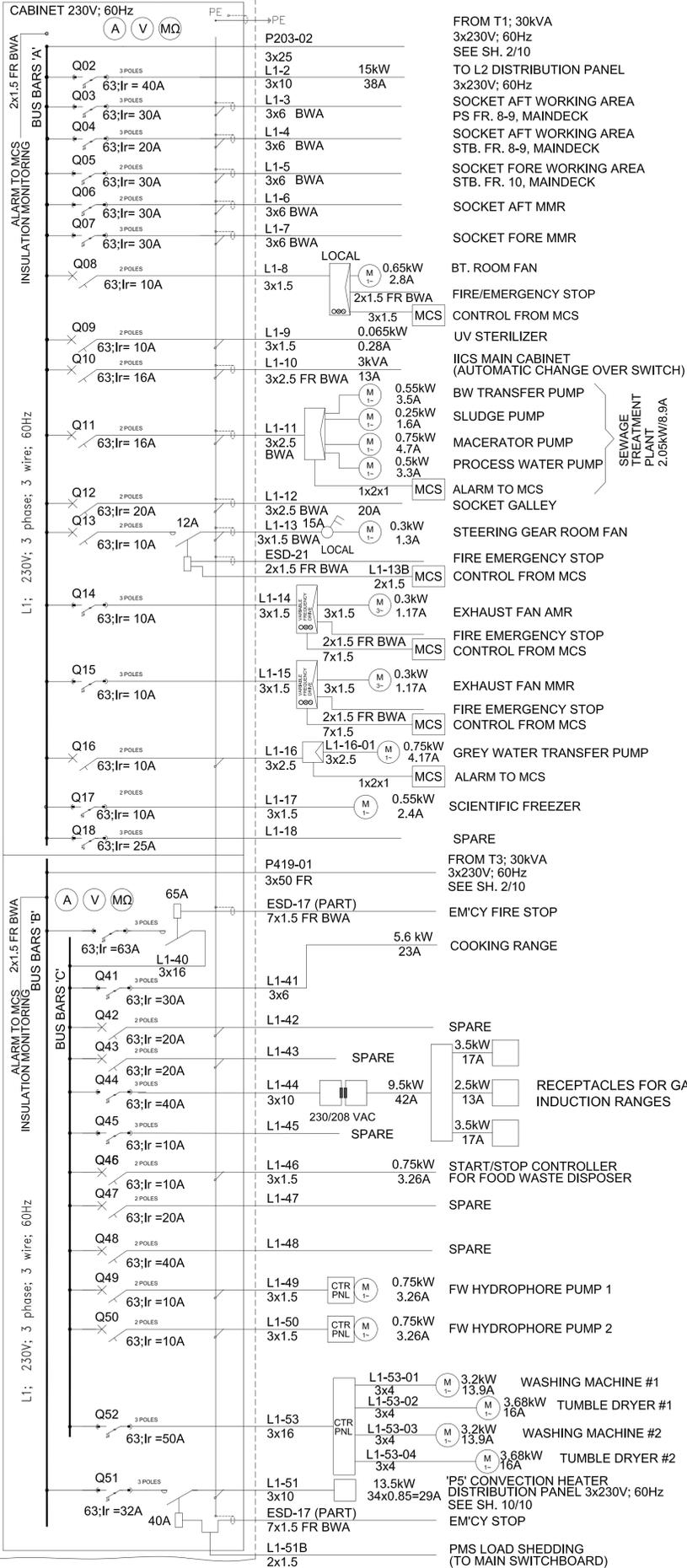
CCGS A. LeBLANC

EMERGENCY DISTRIBUTION SYSTEM 600V; 60Hz

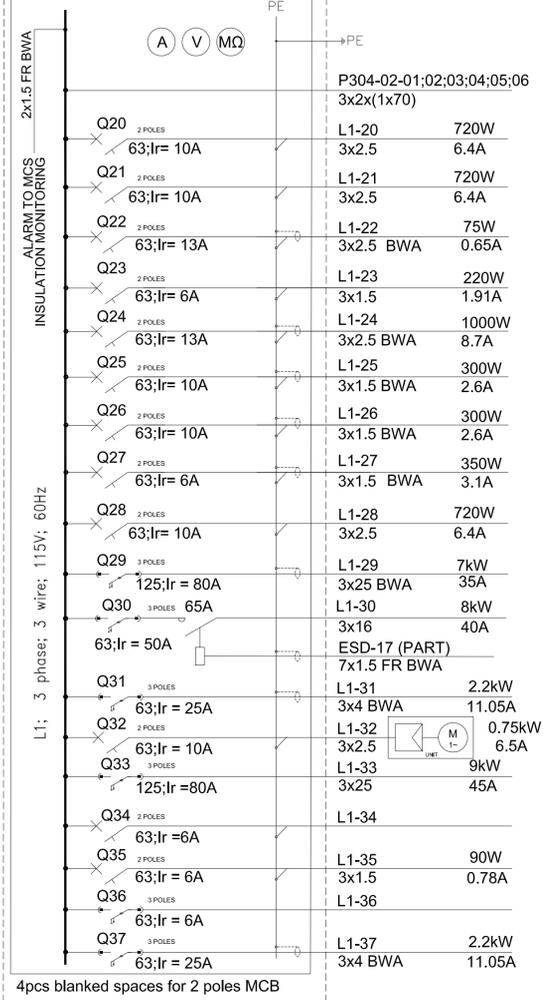
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AF	10/12/2012	AS FITTED	PM	AJM	BF

Client:	CANADIAN COAST GUARD		Title:	SINGLE LINE DIAGRAM	
			MID-SHORE PATROL VESSEL		
			Scale:	Size:	Project No:
P.O. Box 9110, 3099 Barrington Street, Halifax NS, Canada B3K 5M7, Tel: 902.423.9271, Fax: 902.429.4510			Drawn by:	Checked by:	Dwg. date:
Contract No. F7045-06001/002/NQ			Draw.no.:	AF6101-32000-01	
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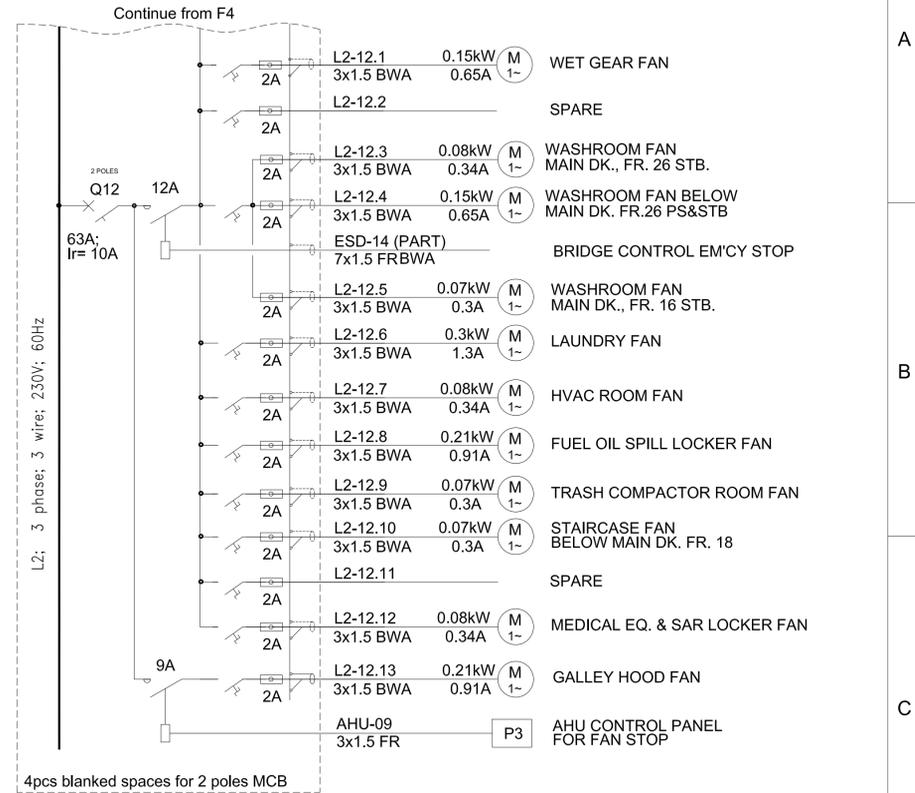
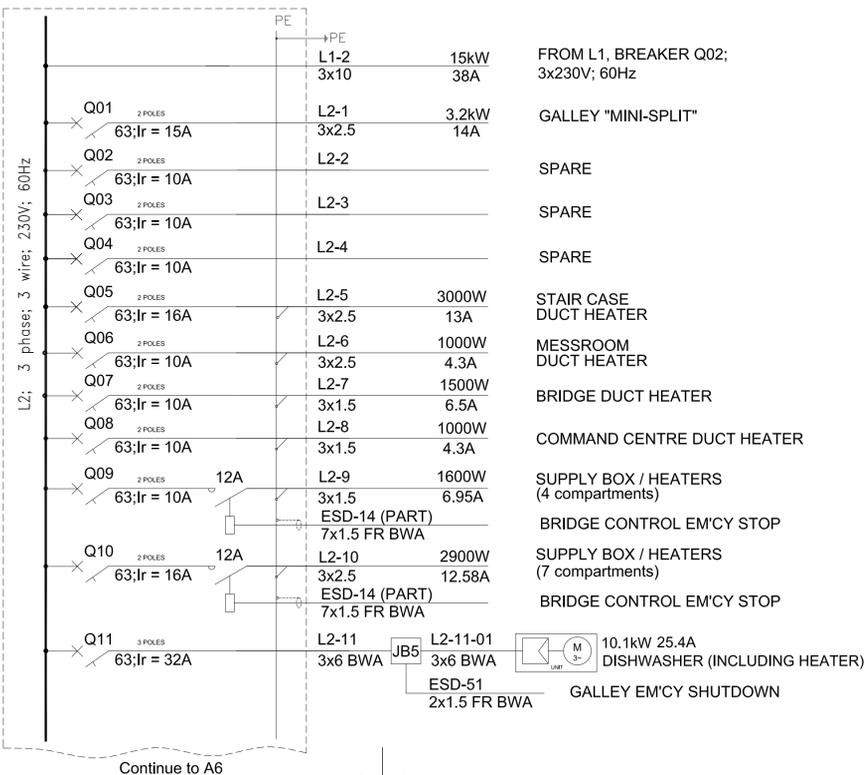
"L1" DISTRIBUTION SWITCHBOARD
3 phase; 3 wire; 230V & 115V; 60Hz
ARRANGED IN A.M.R.



CABINET 115V; 60Hz



"L2" HEATING DISTRIBUTION PANEL
3 phase; 3 wire; 230V; 60Hz
ARRANGED IN E.E.R.



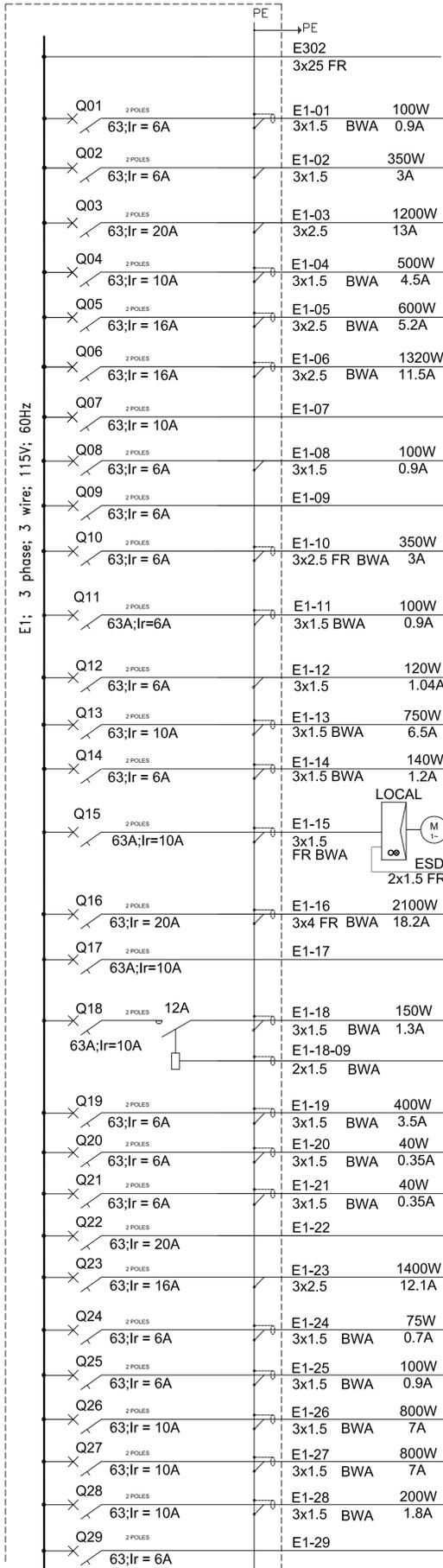
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CCGS A. LEBLANC

MAIN DISTRIBUTION SYSTEM 230V & 115V; 60Hz

AF	09/11/2013	AS FITTED	PM	AJM	BF
Rev	Date	Description	Perform	Check	Appr.
Client:		Title:			
CANADIAN COAST GUARD		SINGLE LINE DIAGRAM			
MID-SHORE PATROL VESSEL					
Scale:	NTS	Size:	A2	Project No:	6094
Drawn by:	G.Frangopol	Checked by:	A. Lepadatu	Dwg. date:	10/06/2011
Draw.no.:	AF6101-32000-01			Rev.	AF
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"E1" EM'CY DISTRIBUTION SWB.
3 phase; 3 wire; 115V; 60Hz
ARRANGED IN E.E.R.



FROM ESB, SECTION 3;
BREAKER 3Q02; 3x115V; 60Hz
SEE SH. 7/10

SOCKET FOR ECHO SOUNDER TRANSCEIVER

EMAIL-AT-SEA EQUIPMENT

ECS SYSTEM (JB) BRIDGE

X-BAND RADAR (VIA ISOLATION SWITCH)

S-BAND RADAR JB

SPARE

CCTV CONTROLLER (EER)

SPARE

FIRE DETECTION CONTROL UNIT

GYRO COMPASS INTERFACE AND POWER SUPPLY UNIT

MCR PRINTER (VIA SOCKET)

SEARCHLIGHT PS

SATELLITE CONNECTIVITY ADAPTERS (VIA SOCKETS)

EM'CY DG COMP. FAN

EMERGENCY STOP OUTSIDE EMERGENCY GENERATOR ROOM

RECTIFIER FOR BATTERY BACK-UP SYSTEM

SPARE

RED LIGHTING (STAIRS, PASSAGEWAY, MESSROOM)

BCS CONTROL

ECS SYSTEM IN COMMAND CENTRE (VIA JB)

ECS DISPLAY BRIDGE WING PS

ECS DISPLAY BRIDGE WING STB

SPARE

UPS FOR LAN

CELLULAR PHONE TRANSCEIVER & AMPLIFIER

SATELLITE ANTENNA EMAIL-AT-SEA

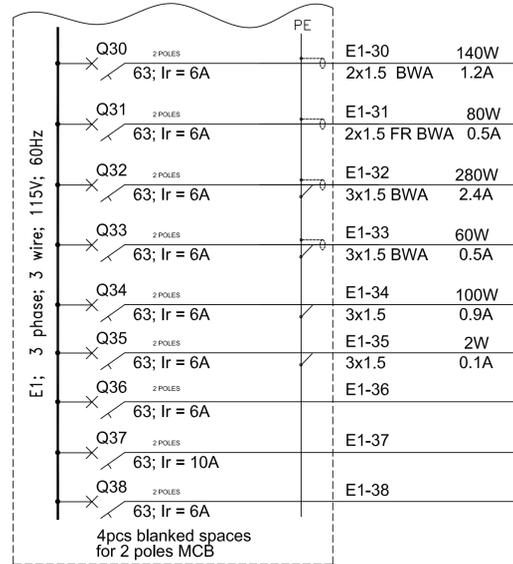
SOCKET IN RADIOCOMMUNICATION RACK CABINET, EER

RADIOCOMMUNICATION RACK CABINET, COMMAND CENTRE

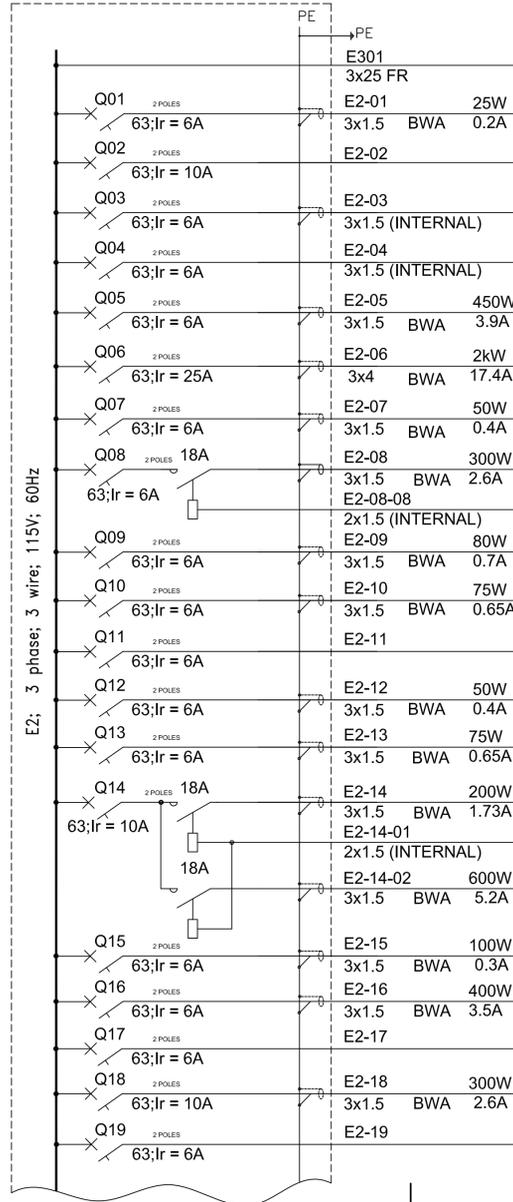
REMOTE RADAR PCIO UNIT COMMAND CENTRE

SPARE

"E1" EM'CY DISTRIBUTION SWB.
3 phase; 3 wire; 115V; 60Hz
ARRANGED IN E.E.R.



"E2" EM'CY DISTRIBUTION PANEL
3 phase; 3 wire; 115V; 60Hz
ARRANGED IN BRIDGE CONSOLE



HEATER FOR SOUND POWERED TELEPHONES (JB)

RED FLASHING BEACONS FOR GENERAL ALARM SYSTEM (JB)

FLASHING BEACONS FOR AUTOMATIC TELEPHONES (JB)

SHORE CONNECTION BOX FOR AUTOMATIC TELEPHONES

HEATER FOR BATTERY LOCKER

WHITE/RED LIGHTING RELAY BOX

SPARE

SPARE

SPARE

FROM ESB, SECTION 3; BREAKER 3Q01; 3x115V; 60Hz SEE SH. 7/10

RECEPTACLE FOR SECURITY DEVICE (SCIP)

SPARE

WIPER CONTROL DEVICE NET POWER SUPPLY

NAVIGATION LIGHTS MOUNTING PLATE

JUNCTION BOX FOR ECHO SOUNDER TERMINALS (PROCESSOR, DISPLAYS AND PRINTER)

SONAR ASSEMBLY

SPEED LOG

OPEN DECK AREA LIGHTING BRIDGE DECK

BCS CONTROL

SINGLE SOCKET FOR FAX MACHINE (CHART TABLE)

SOCKETS FOR CHARGERS PORTABLE RADIOTELEPHONE

SPARE

CHARGER FOR AUTOMATIC VOLUNTARY OBSERVATION SHIP'S (AVOS)
SOCKET 115V;15A;
TOP DK. RADAR ANTENNA

SOCKET FOR PORTABLE FLOODLIGHT BRIDGE TOP, FR. 14 CENTRELINE.

BCS CONTROL

FLOODLIGHTS BRIDGE DK. FOR LIFERAFT & FWD. MANOEUVRING AREA;

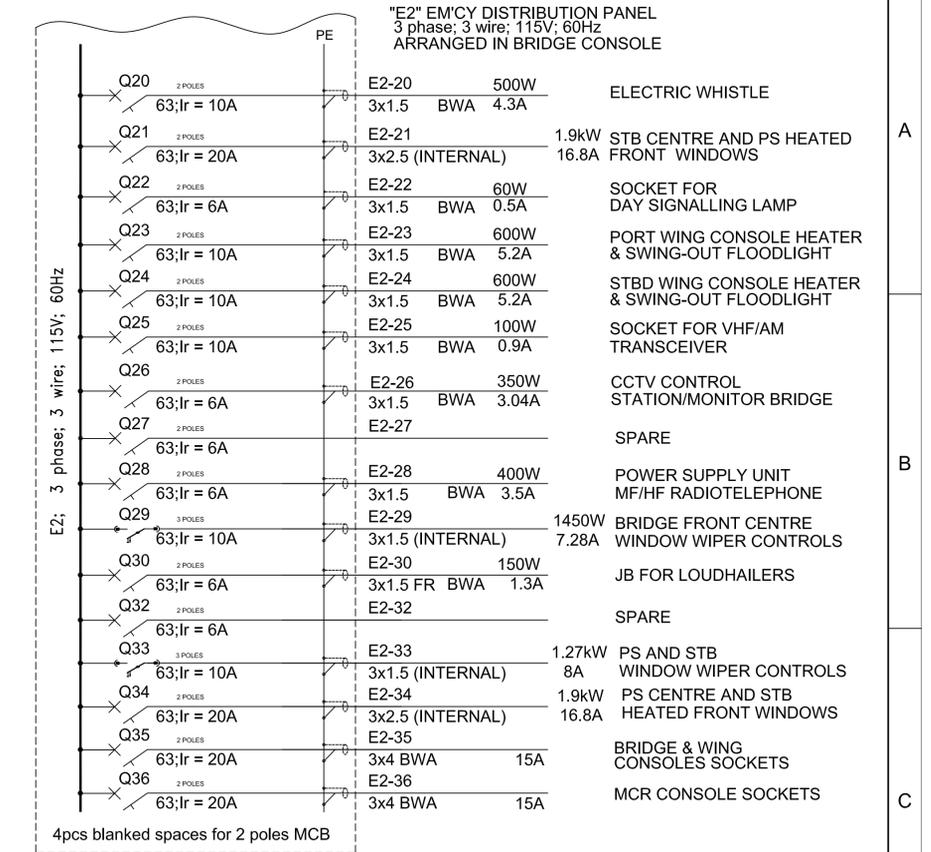
RED LIGHT BRIDGE & COMMAND CENTRE EM'CY LIGHT BRIDGE/CHART LAMP COMMAND CENTRE;

SPARE

S-BAND RADAR (VIA ISOLATING SWITCH)

SPARE

"E2" EM'CY DISTRIBUTION PANEL
3 phase; 3 wire; 115V; 60Hz
ARRANGED IN BRIDGE CONSOLE



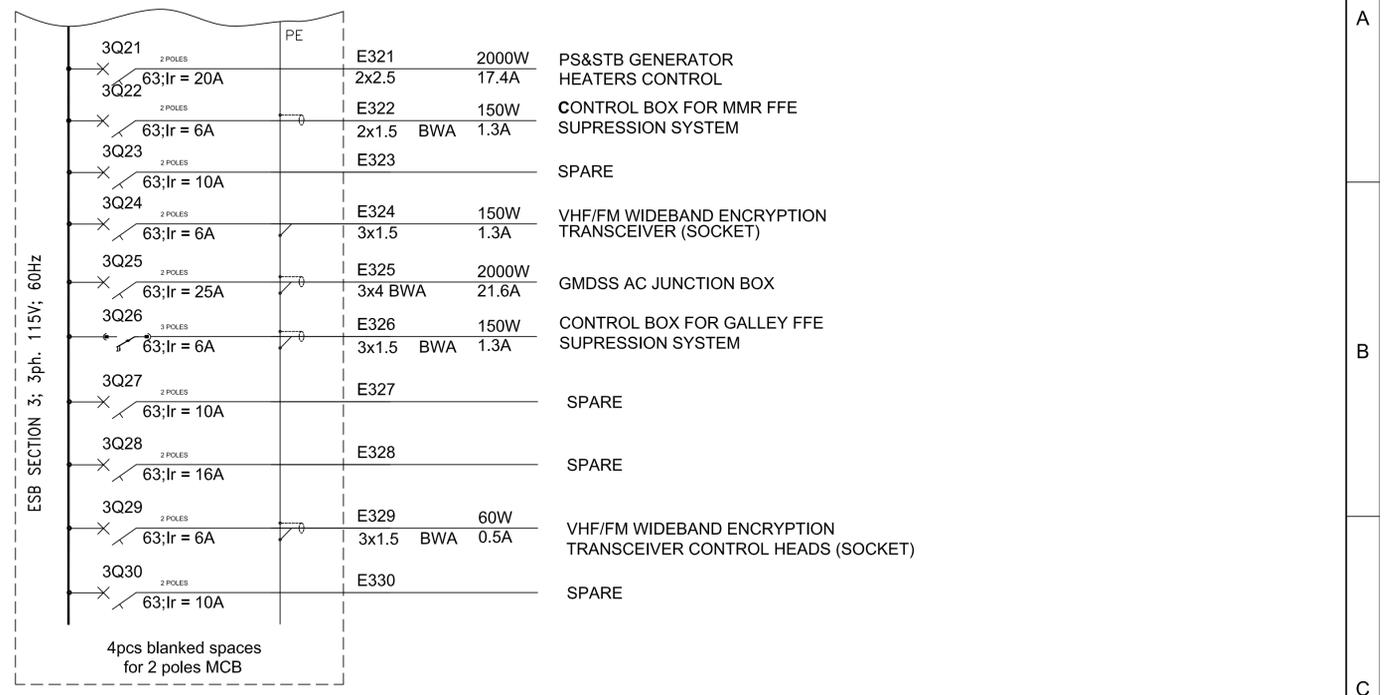
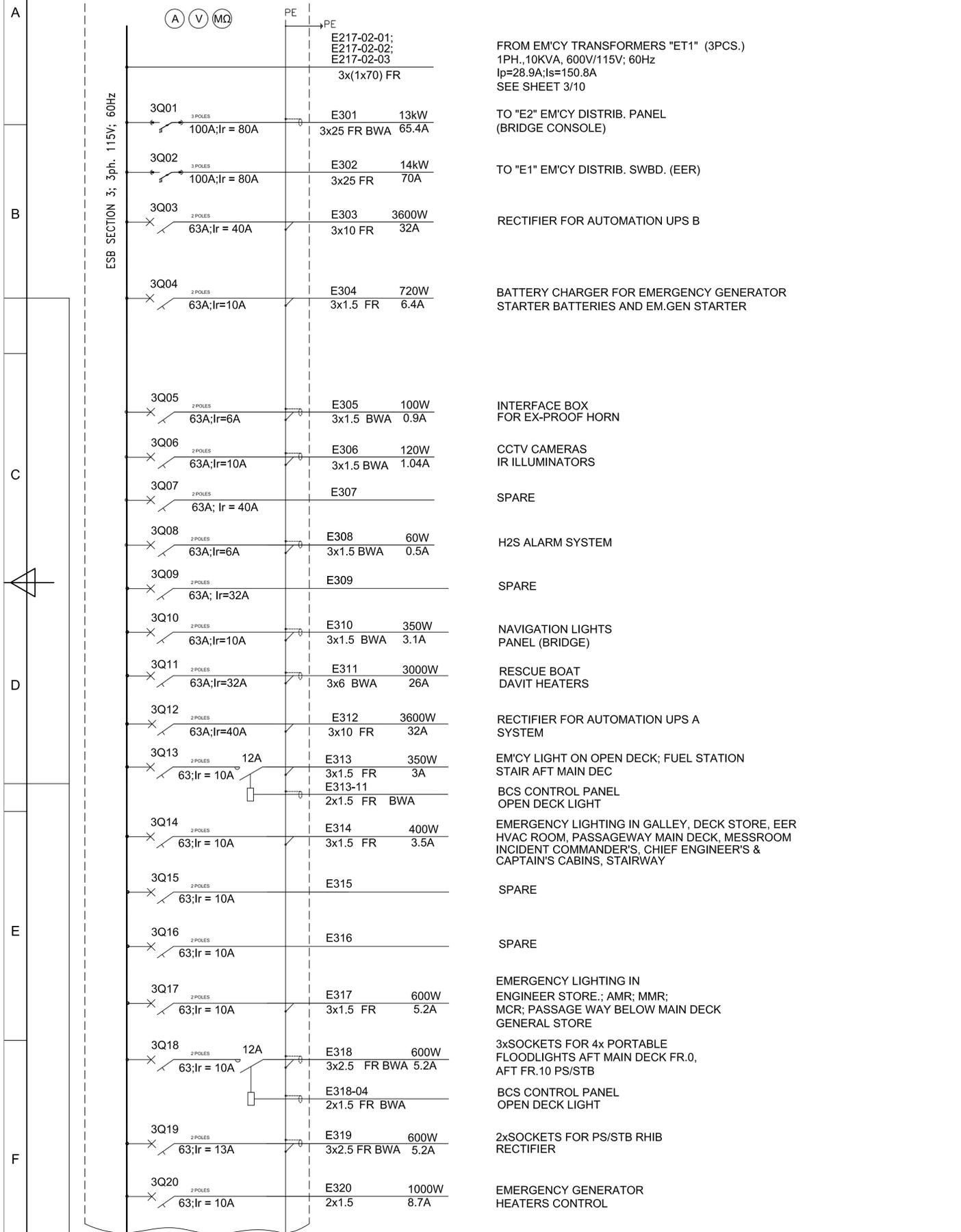
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CCGS A. LeBLANC

EM'CY DISTRIBUTION SYSTEM 3~115V; 60Hz

AF	09/01/2013	AS FITTED	AJM	-	BF
Rev	Date	Description	Perform	Check	Appr.
Client:		CANADIAN COAST GUARD		Title:	
		international contract engineering		SINGLE LINE DIAGRAM	
		IRVING IRVING SHIPBUILDING INC.		MID-SHORE PATROL VESSEL	
P.O. Box 9110, 3099 Barrington Street, Halifax NS, Canada B3K 5M7, Tel: 902.423.9271, Fax: 902.429.4510		Scale: NTS		Size: A2	
Draw.no: AF6101-32000-01		Project No: 6094		Dwg. date: 10/06/2011	
Contract No. F7045-06001/002/NQ		Proj.		Rev. AF	
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**EMERGENCY SWITCHBOARD (ESB)
ARRANGED IN EMERGENCY D.G. COMP.**



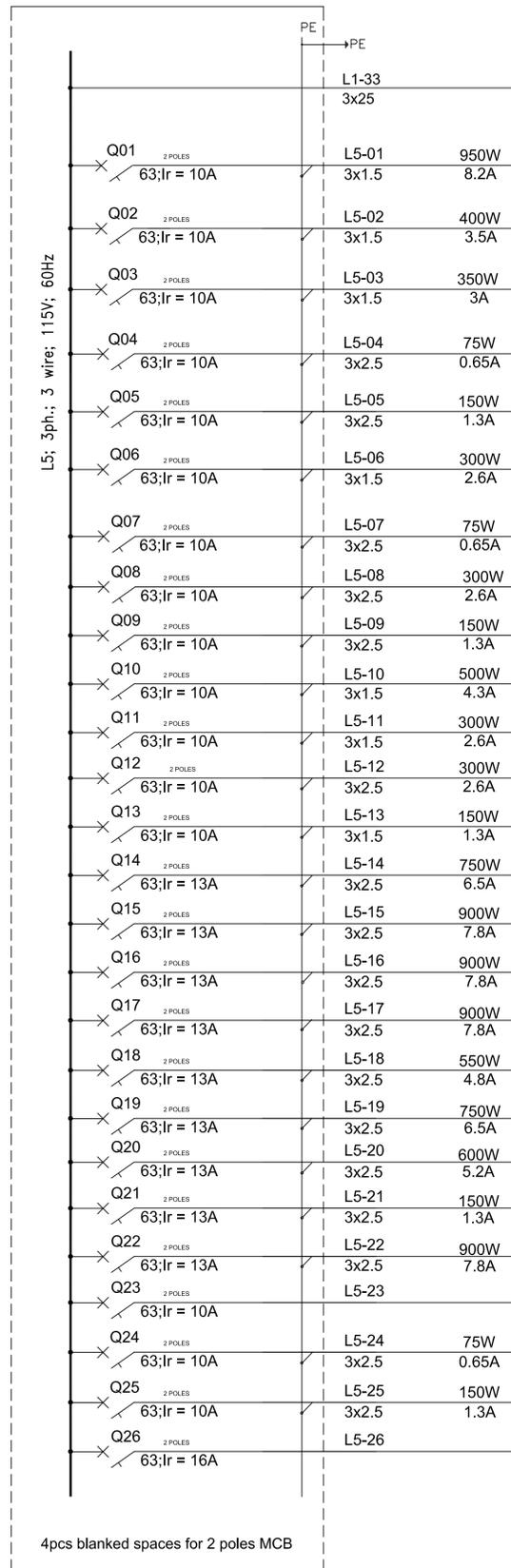
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CCGS A. LeBLANC
EMERGENCY DISTRIBUTION SYSTEM 115V; 60Hz

Rev	Date	Description	Perform	Check	Appr.
AF	10/12/2012	AS FITTED	PM	AJM	BF

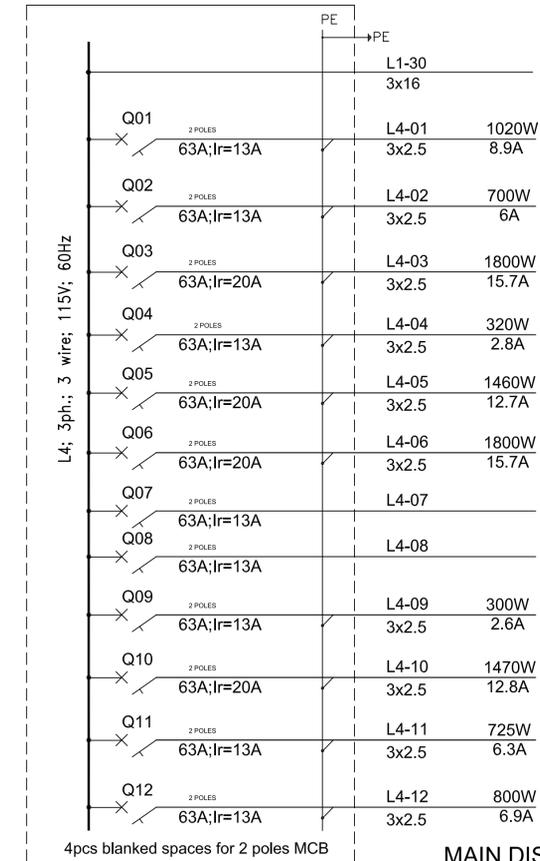
Client:	CANADIAN COAST GUARD		Title:	SINGLE LINE DIAGRAM	
		MID-SHORE PATROL VESSEL			
		Scale:	Size:	Project No:	
P.O. Box 9110, 3099 Barrington Street, Halifax NS, Canada B3K 5M7, Tel: 902.423.9271, Fax: 902.429.4510		NTS	A2	6094	
Drawn by: G.Frangopol		Checked by: A. Lepadatu	Dwg. date: 10/06/2011		
Contract No. F7045-06001/002/NQ		Draw.no: AF6101-32000-01		Rev. AF	
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"L5" DISTRIBUTION PANEL; 3 phase; 3 wire; 115V; 60Hz
ARRANGED IN MESSROOM



- FROM L1, BREAKER Q33; 3x115V; 60Hz SEE SH. 4/10
- LIGHTING IN FREEZER, GALLEY, DRY FOOD STORE, REFRIGERATOR, WET GEAR STORE, TRASH COMPACTOR, EMERGENCY GENERATOR ROOM, WASHROOM FR.16 STB, MESS ROOM, PASSAGEWAYS AND STAIRWAY
- LIGHTING IN ELECTRONIC EQUIPMENT ROOM, WASHROOM FR.26 STB, CAPTAIN'S CABIN, CHIEF ENGINEER'S CABIN, INCIDENT COMMANDER'S CABIN, HVAC ROOM, AMMUNITION LOCKERS, DECK EQUIPMENT LOCKER AND FUEL OIL SPILL LOCKER
- MIRROR LAMPS ON MAIN DECK & BELOW MAIN DECK
- SOCKET - OPEN MAIN DECK FR.28 PS
- SOCKET - OPEN MAIN DECK FR.21 & 12 STB
- OPEN MAIN DECK PS & STB LIGHTING
- SOCKET - OPEN MAIN DECK FR.28 STB
- SOCKET - MESS ROOM PS - FR 23 & FR25
- SOCKET - OPEN MAIN DECK FR.33 PS &STB
- LINEN/LAUNDRY LOCKER, MCR, 2nd ENGINEER CABIN AND 2P CABINS ON BELOW MAIN DECK
- WASHROOM FR.29 STB, LOCKER, STEWARD LOCKER, WASHROOM FR.29 PS AND BOW THRUSTER ROOM ON BELOW MAIN DECK
- MESS ROOM SOCKETS FR.23 STB MAIN DECK
- BED LAMPS ON BELOW MAIN DECK & MAIN DECK
- SOCKETS - LAUNDRY AND PASSAGEWAY BELOW MAIN DECK
- SOCKETS - MCR BELOW MAIN DECK
- SOCKETS - 2nd ENGINEER AND 2P CABINS BELOW MAIN DECK
- SOCKETS - 1P AND 2P CABINS BELOW MAIN DECK
- SOCKETS - EER AND CAPTAIN'S CABIN MAIN DECK
- SOCKETS - INCIDENT COMMANDER AND CHIEF ENGINEER CABINS MAIN DECK
- SOCKETS - PASSAGEWAY, HVAC ROOM AND DECK EQUIPMENT LOCKER MAIN DECK
- SOCKET FOR WORKBENCH EM'CY DG ROOM, MAIN DECK
- SOCKETS 2P CABIN PS AND 2P CABIN STB BELOW MAIN DECK
- SPARE
- SOCKET - OPEN MAIN DECK FR.10-11 STB
- SOCKET - OPEN MAIN DECK FR.21&12 PS
- SPARE

"L4" DISTRIBUTION PANEL; 3 phase; 3 wire; 115V; 60Hz
ARRANGED IN MESSROOM



- FROM L1, BREAKER Q30; 3x115V; 60Hz SEE SH. 4/10
- SOCKET FOR REFRIGERATOR GALLEY
- SOCKET FOR FOOD PROCESSOR GALLEY
- SOCKET FOR DEEP FRYER GALLEY
- SOCKETS FOR MESS ROOM REFRIGERATOR & GENERAL USE
- SOCKET FOR MICROWAVE OVEN MESS ROOM
- SOCKET FOR TOASTER MESS ROOM
- SPARE
- SPARE
- SOCKETS FOR REFRIGERATORS IN CABINS (CAPTAIN & CHIEF ENGINEER)
- SOCKET FOR COFFEE MAKER MESS ROOM
- SOCKET FOR SOUP WARMER AND GENERAL USE - MESS ROOM
- SOCKET FOR MIXER GALLEY

MAIN DISTRIBUTION SYSTEM (LIGHTING) 115V; 60Hz
GALLEY AND MESSROOM DISTRIBUTION SYSTEM 115V; 60Hz

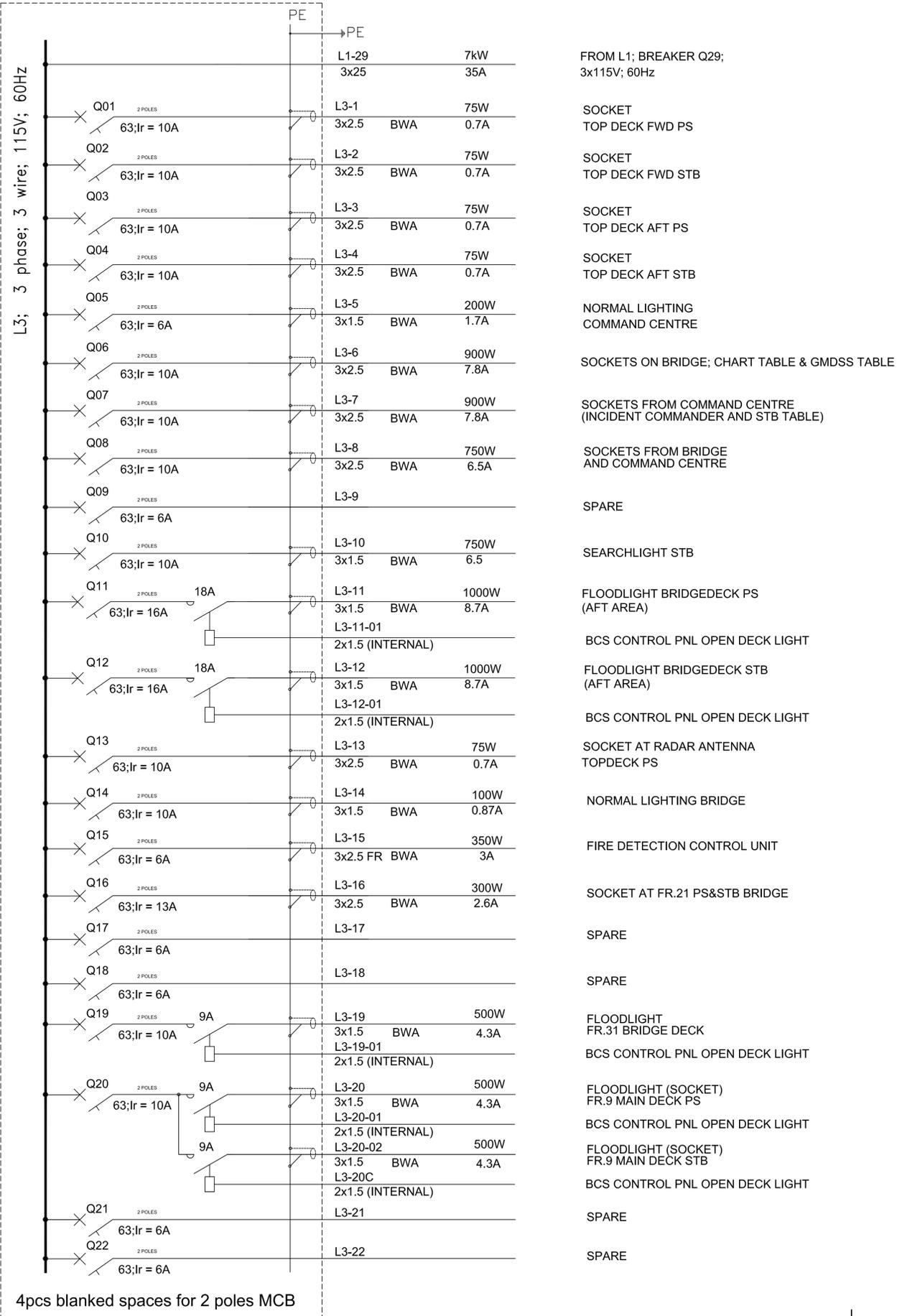
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CCGS A. LeBLANC

EM'CY DISTRIBUTION SYSTEM 3~115V; 60Hz

Rev	Date	Description	Perform	Check	Appr.
AF	10/12/2012	AS FITTED	PM	AJM	BF
Client: CANADIAN COAST GUARD			Title: SINGLE LINE DIAGRAM		
			MID-SHORE PATROL VESSEL		
			Scale: NTS	Size: A2	Project No: 6094
P.O. Box 9110, 3099 Barrington Street, Halifax NS, Canada B3K 5M7, Tel: 902.423.9271, Fax: 902.429.4510			Drawn by: G.Frangopol	Checked by: A. Lepadatu	Dwg. date: 10/06/2011
Contract No. F7045-06001/002/NQ			Draw.no: AF6101-32000-01		Rev. AF
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"L3" DISTRIBUTION PANEL; 3 phase; 3 wire; 115V; 60Hz
ARRANGED IN BRIDGE CONSOLE



4pcs blanked spaces for 2 poles MCB

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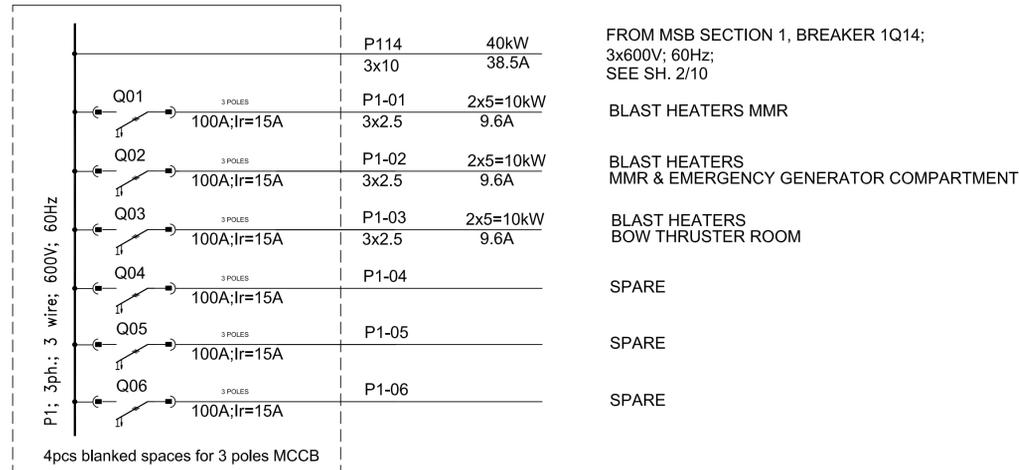
CCGS A. LeBLANC

"L3" DISTRIBUTION PANEL 115V; 60Hz

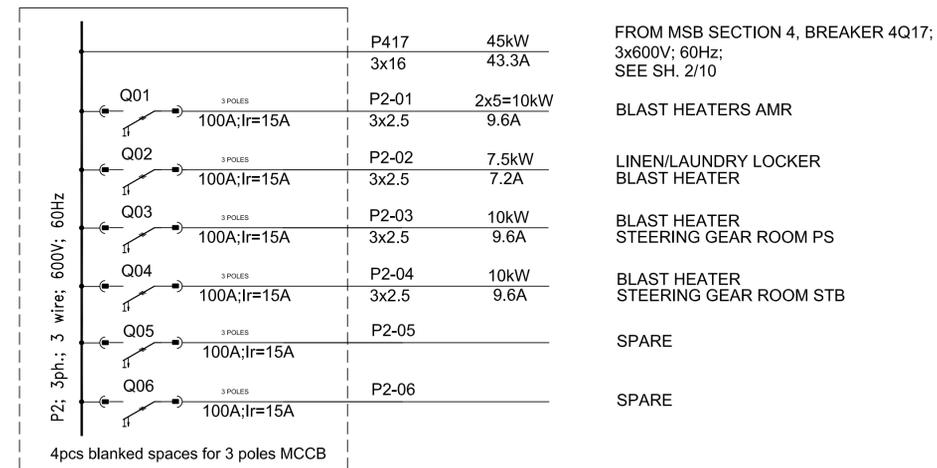
Rev	Date	Description	Perform	Check	Appr.
AF	10/12/2012	AS FITTED	PM	AJM	BF

Client: CANADIAN COAST GUARD	Title: SINGLE LINE DIAGRAM	
MID-SHORE PATROL VESSEL		
Scale: NTS	Size: A2	Project No: 6094
Drawn by: G.Frangopol	Checked by: A.Lepadatu	Dwg. date: 10/06/2011
Draw.no: AF6101-32000-01		Rev. AF
Contract No. F7045-06001/002/NQ	Proj.	© IRVING SHIPBUILDING INC.
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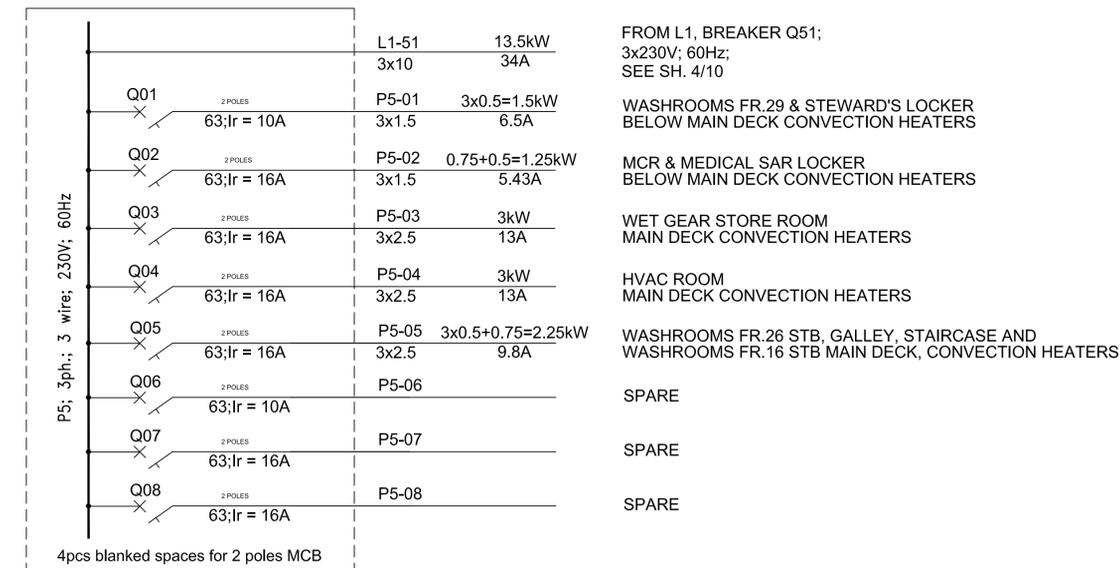
"P1" BLAST HEATER DISTRIBUTION PANEL; 3 phase; 3 wire; 600V; 60Hz
ARRANGED IN MMR



"P2" BLAST HEATER DISTRIBUTION PANEL; 3 phase; 3 wire; 600V; 60Hz
ARRANGED IN STEERING GEAR COMPARTMENT



"P5" CONVECTION HEATER DISTRIBUTION PANEL; 3 phase; 3 wire; 230V; 60Hz
ARRANGED IN HVAC ROOM



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CCGS A. LeBLANC

BLAST HEATER DISTRIBUTION PANELS P1 AND P2; 600V; 60Hz
CONVECTION HEATER DISTRIBUTION PANEL P5; 230V; 60Hz

AF	10/12/2012	AS FITTED	PM	AJM	BF
Rev	Date	Description	Perform	Check	Appr.
Client: CANADIAN COAST GUARD			Title: SINGLE LINE DIAGRAM		
			MID-SHORE PATROL VESSEL		
			Scale: NTS	Size: A2	Project No: 6094
P.O. Box 9110, 3099 Barrington Street, Halifax NS, Canada B3K 5M7, Tel: 902.423.9271, Fax: 902.429.4510			Drawn by: G.Frangopol	Checked by: A. Lepadatu	Dwg. date: 10/06/2011
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