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LEGEND:

SYMBOL	DESCRIPTION
	CONNECTION
	EARTH
	PLUG AND SOCKET
	CABLE WITH PLUG
	FUSE ISOLATOR
	CONTACTOR WITH CONTROL COIL
	MCB - 2 POLES MINIATURE CIRCUIT BREAKER (DRAW-OUT TYPE)
	MCCB - 3 POLES MOULDED CASE CIRCUIT BREAKER (DRAW-OUT TYPE)
	XXX - RATED CURRENT FOR CASE; If = 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:

1. 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".  
2."LOCAL" MEANS THAT THE STARTER/CONTROL PANELS ARE INSTALLED IN THE VICINITY OF MECHANICAL EQUIPMENT.  
3. 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 CAPORAL KAEBLE V.C

AF	20/11/2012	AS FITTED	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	
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		Proj.		Rev. AF	
		© IRVING SHIPBUILDING INC.		Sheet: 1 of 10	

REFERENCE DOCUMENTS

NO.	DESCRIPTION	DOCUMENT NUMBER
1	ELECTRICAL LOAD ANALYSIS	AF6095-83560-01