

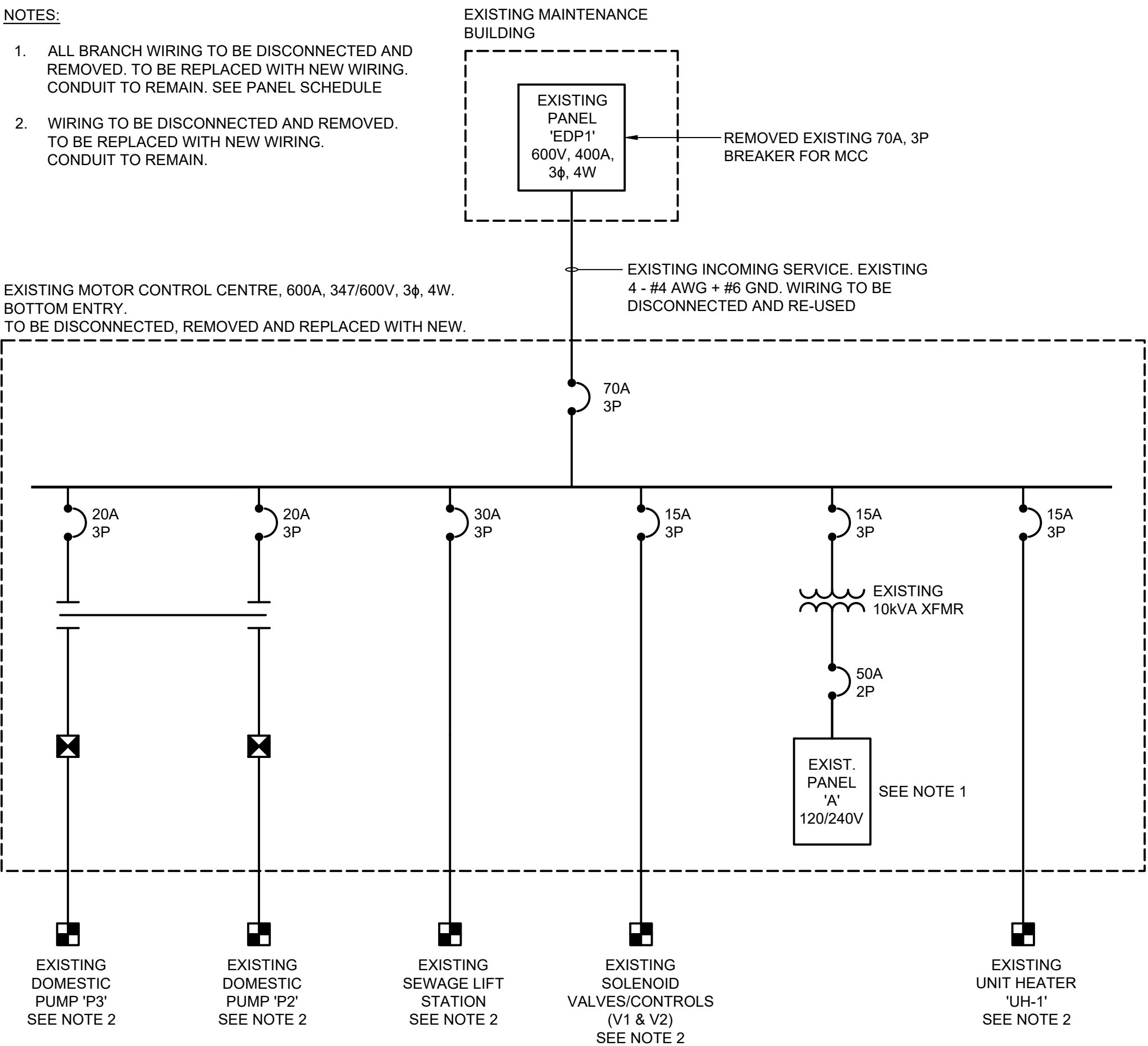
ELECTRICAL LEGEND	
L1	LINEAR LIGHTING FIXTURE. 'L1' INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
L2	EXTERIOR SURFACE MOUNTED LIGHTING FIXTURE. 'L2' INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
\$	LINE VOLTAGE SINGLE GANG TOGGLE SWITCH.
	DUPLEX RECEPTACLE CSA CONFIGURATION 5-15R, 15A, 120V.
	DIRECT CONNECTION TO MECHANICAL EQUIPMENT.
	SINGLE PHASE MOTOR.
	THREE PHASE MOTOR.
\$MS	TOGGLE SWITCH MOTOR STARTER.
	MAGNETIC MOTOR STARTER.
	COMBINATION TYPE MAGNETIC MOTOR STARTER AND DISCONNECT.
TC	TIME CLOCK.
	SURFACE MOUNTED UNIT HEATER.
T	LOW VOLTAGE THERMOSTAT.
CO2	COMBINATION CO GAS DETECTION SENSOR AND CONTROLLER.
	GAS DETECTION HORN/STROBE.
	WALL MOUNTED LED "RUNNING MAN" EXIT SIGN. SHADED AREA INDICATES LOCATION OF SIGN FACE.
	EMERGENCY LED LIGHTING BATTERY UNIT C/W DOUBLE LIGHTING HEADS.
	FIRE ALARM BELL.
	FIRE ALARM HORN/STROBE.
F	FIRE ALARM PULL STATION.
HD	CEILING MOUNTED HEAT DETECTOR.

NEW PANEL 'A'																	LOCATION: NEW MOTOR CONTROL CENTRE SERVICE: 120/240V, 1Ø, 3W										MOUNTING: SURFACE BRANCH CIRCUIT I.C.										225 AMP. MAINS. - AMPS RMS SYM.	
LOAD DESCRIPTION	WATTS	COND. (MM)	GND	NEUT.	WIRE	BKR	CIRCUIT		BKR	WIRE	NEUT.	GND	COND. (MM)	WATTS	LOAD DESCRIPTION	PHASE LOAD																						
							A	B																														
NEW INTERIOR AND EXTERIOR LIGHTING	486	21	12	12	12	15A	1	2	15A	12	12	12	ER	750	EXISTING INTERIOR RECEPTACLES	1002																						
NEW EXIT LIGHT	100	21	12	12	12	15A	3	4	15A	12	12	12	ER	500	EXISTING INTERIOR RECEPTACLES		600																					
NEW EXHAUST FAN 'F-1'	373	ER	12	12	12	15A	5	6	15A	12	12	12	21	500	NEW EXTERIOR RECEPTACLE	750																						
NEW EMERGENCY LIGHTING UNIT	75	21	12	12	12	15A	7	8	15A	12	12	12	ER	120	EXISTING CHLORINE AGITATORS		195																					
EXISTING FILTER	100	ER	12	12	12	15A	9	10	15A	12	12	12	ER	100	EXISTING TIME CLOCK/PUMP 'P7'	200																						
EXISTING FURNACE	1500	ER	12	12	12	15A	11	12	15A	12	12	12	ER	100	EXISTING CHLORINE PUMPS 'P5' AND 'P7'		1600																					
EXISTING FIRE PUMP CONTROLLER	500	ER	12	12	12	15A	13	14	15A	12	12	12	ER	100	EXISTING PRESSURE SWITCH	600																						
NEW FIRE PUMP ENGINE HEATER	1000	21	12	12	12	15A	15	16	15A	12	12	12	21	78	NEW CHLORINE PUMP 'P9'		1050																					
SPARE						20A	17	18	20A						SPARE																							
EXISTING DEEP WELL PUMP 'P1'	509	ER	12	-	12	2P 20A	19	20	2P 20A						SPARE		509																					
	509		12	-	-	21	22							509																								
NEW RE-CIRCULATION PUMP 'P-8'	288	21	12	-	12	2P 15A	23	24	2P 80A						SPARE																							
	288	-	-	-	12	25	26																															
SPARE						15A	27	28	20A	12	12	12	21	1800	NEW FUEL POLISHING SYSTEM 'FPS'		2098																					
NEW CO ₂ GAS DETECTION SYSTEM	50	21	12	12	12	15A	29	30	20A	12	12	12	21	720	NEW ELECTRIC ACTUATOR	720																						
NEW ELECTRIC ACTUATOR	720	21	12	12	12	20A	31	32	20A	12	12	12	21	720	NEW ELECTRIC ACTUATOR		1440																					
NEW ELECTRIC ACTUATOR	720	21	12	12	12	20A	33	34	20A	12	12	12	21	720	NEW ELECTRIC ACTUATOR		1440																					
SPACE							35	36							SPACE																							
SPACE							37	38							SPACE																							
SPACE							39	40							SPACE																							
SPACE							41	42							SPACE																							
COMMENTS: + - INDICATES C/W LOCK-ON DEVICE.								CONNECTED LOAD								12.7 KW.		TOTAL WATTS		5,230	7,492																	

LIGHTING FIXTURE SCHEDULE										REMARKS
FIXTURE TAG	FIXTURE SIZE	FIXTURE TYPE	LAMP SOURCE	LOCATION	MOUNTING	VOLTAGE	BALLAST	APPROX. WATTAGE	APPROX. LUMENS	
L1	137mm X 1278mm	LED VAPOR TIGHT	LED 4000K	INTERIOR	CHAIN HUNG	120	LED DRIVER	42W	5000LM	
L2	236mm X 365mm	LED WALL PACK	LED 4000K	EXTERIOR	SURFACE	120	LED DRIVER	49W	5541LM	C/W PHOTOCELL.
L3	122mm X 184mm	WALL MOUNT LED VAPOR TIGHT	LED 4000K	EXTERIOR	SURFACE	120	LED DRIVER	14W	1585LM	TWO (2) FIXTURES ARE NEEDED, ONE WITH A GREEN GLOBE (RGL100G) AND ONE WITH A RED GLOBE (RGL100R).

NOTES:

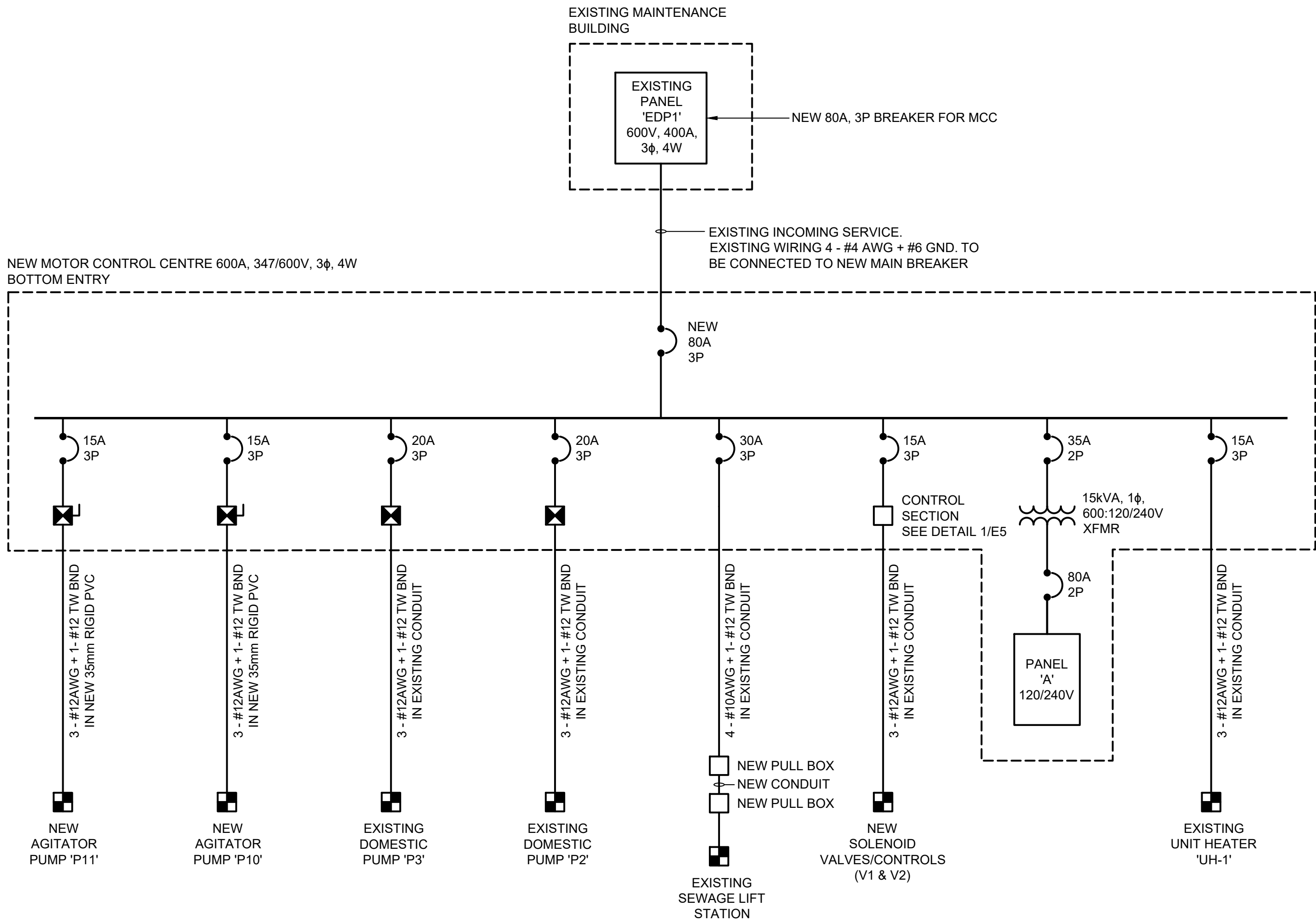
- ALL BRANCH WIRING TO BE DISCONNECTED AND REMOVED. TO BE REPLACED WITH NEW WIRING. CONDUIT TO REMAIN. SEE PANEL SCHEDULE
- WIRING TO BE DISCONNECTED AND REMOVED. TO BE REPLACED WITH NEW WIRING. CONDUIT TO REMAIN.



EXISTING MCC SINGLE LINE DIAGRAM

SCALE : N.T.S.

1
E1



NEW MCC SINGLE LINE DIAGRAM

SCALE : N.T.S.

2
E1

GENERAL NOTES:

- RE-USE EXISTING CONDUIT AND PROVIDE NEW WIRING FOR ALL ELECTRICAL DEVICES AND EQUIPMENT. EXTEND CONDUIT AS REQUIRED.
- ALL MECHANICAL AND ELECTRICAL EQUIPMENT BEING REMOVED TO BE TURNED OVER TO OWNER. CONTRACTOR TO REMOVE MECHANICAL AND ELECTRICAL EQUIPMENT FROM SITE IF REFUSED BY OWNER.
- ENSURE ALL NEW FIRE ALARM ADDRESSABLE DEVICES ARE RECONNECTED TO EXISTING FIRE ALARM PANEL. OBTAIN SERVICES OF FIRE ALARM SERVICE PROVIDER TO RECERTIFY FIRE ALARM SYSTEM IN ACCORDANCE WITH CAN/ULC-S524 AND CAN/ULC-S537.
- REFER TO MECHANICAL DRAWINGS AND COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO WORK FOR EQUIPMENT SPECIFICATIONS AND EXACT LOCATIONS.
- CONTRACTOR RESPONSIBLE FOR PROTECTION OF THE EXISTING ELECTRICAL COMPONENTS DURING CONSTRUCTION.
- EXISTING CONDUIT TO REMAIN, EXISTING WIRING TO BE DISCONNECTED AND REMOVED. NEW WIRING TO BE SUPPLIED AND INSTALLED.

CO2	REVISED FOR TENDER	04/01/2022
CO1	ISSUED FOR TENDER	03/04/2022
revisions		date

project	ST. ANTHONY AIRPORT FIRE PUMP REPLACEMENT NEWFOUNDLAND-LABRADOR	project
drawing		dessin

ELECTRICAL LEGEND, SCHEDULES AND RISER DIAGRAMS

designed J. FLYNN	conçu
date 2021.04.16	
drawn J. HANLEY	dessiné
date 2021.04.16	
approved S. LUNDRIGAN	approuvé
date 2021.04.16	
Tender	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC
project number R.104845.001	no. du projet
drawing no. E1	no. du dessin