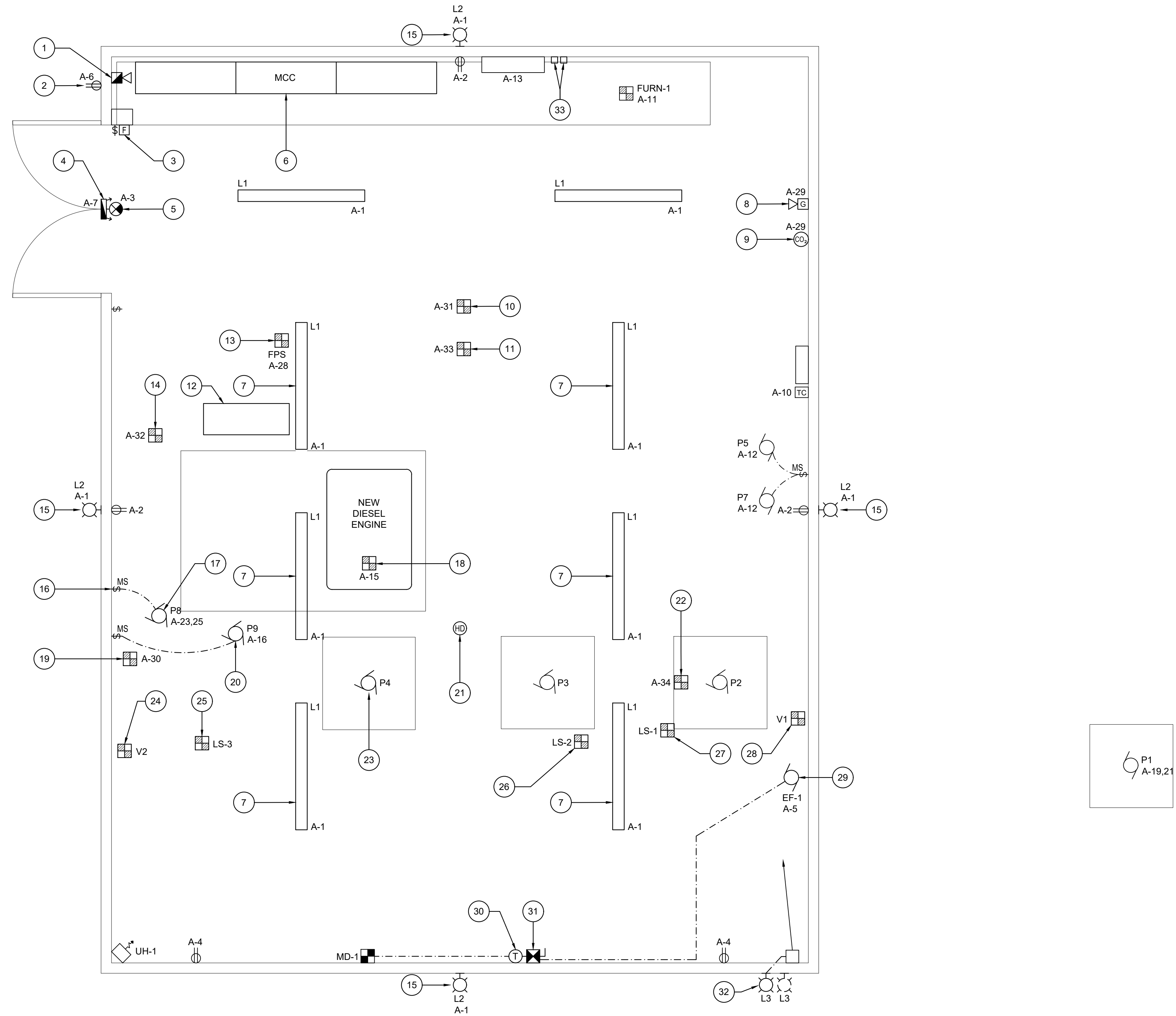


ELECTRICAL NOTES:

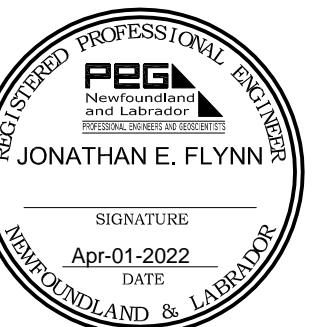
- NEW FIRE ALARM HORN/STROBE. EDWARDS GENESIS G1SERIES, MODEL NO. G1AVRF OR APPROVED EQUIVALENT. INSTALL NEW WIRING 2C#12 AWG WITH DEDICATED BOND WIRE (CSA FAS 105 RATED). RE-USE EXISTING CONDUIT.
- ONE (1) NEW WEATHERPROOF, GROUND FAULT INTERRUPTING EXTERIOR DUPLEX RECEPTACLE AND DEVICE BACK BOX C/W WEATHERPROOF IN-USE COVER MARKED "EXTRA DUTY". INSTALL NEW WIRING AND RE-USE EXISTING CONDUIT.
- NEW FIRE ALARM PULL STATION. EDWARDS, MODEL NO. SIGA-270 OR APPROVED EQUIVALENT. INSTALL NEW WIRING 2C#14 AWG WITH DEDICATED BOND WIRE (CSA FAS 105 RATED). RE-USE EXISTING CONDUIT.
- NEW WALL MOUNTED EMERGENCY BATTERY UNIT C/W TWO (2) 4W LED REMOTE HEADS. RATED FOR 90 MINUTES OF EMERGENCY LIGHTING. INSTALL NEW CONDUIT AND NEW WIRING.
- NEW WALL MOUNTED LED RUNNING MAN SIGN. INSTALL NEW CONDUIT AND NEW WIRING.
- NEW MOTOR CONTROL CENTRE. EQUIPMENT SPECIFICATIONS: 60 HZ, CLASS 1B WIRING, 600V 3-PHASE SERVICE, 42,000 BRACING, SHORT CIRCUIT RATING, BOTTOM INCOMING, EEMAC 1A GASKETED 533mm FRONT MOUNTING ONLY ENCLOSURE, 600A COPPER MAIN HORIZONTAL BUS, A NEUTRAL, MAIN BREAKER, COMPLETE WITH TOP AND BOTTOM HORIZONTAL WIREWAYS, NEW MCC C/W CIRCUIT BREAKER QUANTITY, 120/240V, 225A, 1Ø PANEL 'A' AND 15KVA TRANSFORMER AS PER SINGLE LINE DIAGRAM DETAIL 2/E1.
- NEW SUSPENDED LED VAPOR TIGHT FIXTURES, SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. INSTALL NEW WIRING AND RE-USE EXISTING CONDUIT AND EXTEND TO NEW SOURCE AS REQUIRED.
- NEW GAS DETECTION HORN/STROBE. SEE MECHANICAL DRAWING M3 FOR DETAILS. SUPPLIED BY MECHANICAL AND WIRED BY ELECTRICAL. INSTALL NEW WIRING AND CONDUIT.
- NEW COMBINATION CO₂ GAS DETECTION SENSOR AND CONTROLLER, SEE MECHANICAL DRAWING M3 FOR DETAILS. SUPPLIED BY MECHANICAL AND WIRED BY ELECTRICAL. INSTALL NEW WIRING AND CONDUIT.
- NEW 120V ELECTRIC ACTUATOR ON EXISTING GATE. INSTALL NEW WIRING AND CONDUIT.
- NEW 120V ELECTRIC ACTUATOR ON EXISTING GATE. INSTALL NEW WIRING AND CONDUIT.
- NEW BACK-UP BATTERIES, REFER TO MECHANICAL FIRE PUMP SPECIFICATION. INSTALL NEW WIRING.
- NEW FUEL POLISHING SYSTEM, SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING AND CONDUIT.
- NEW 120V ELECTRIC ACTUATOR ON EXISTING GATE. INSTALL NEW WIRING AND CONDUIT.
- NEW EXTERIOR SURFACE MOUNTED LED LIGHTING FIXTURES. RECOMMENDED REPLACEMENT TO MATCH EXTERIOR LIGHTING FIXTURES ON MAINTENANCE GARAGE, SIGNIFY WALL PACK LED, MODEL NO. WP50-NW-G1-8. NEW CONDUIT AND NEW WIRING FOR LIGHT FIXTURES, SEE PANEL SCHEDULE FOR DETAILS.
- NEW 30A 1P MANUAL MOTOR STARTER FOR NEW RE-CIRCULATION PUMP 'P8'. PROVIDED AND WIRED BY ELECTRICAL. INSTALL NEW CONDUIT AND NEW WIRING.
- NEW RE-CIRCULATION PUMP 'P8'. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING AND NEW CONDUIT. FED FROM 15A BREAKER IN PANEL 'A'.
- NEW DIESEL ENGINE BLOCK HEATER. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING AND NEW CONDUIT. COORDINATE WITH MECHANICAL CONTRACTOR.
- NEW 120V ELECTRIC ACTUATOR ON NEW SLIDE GATE. INSTALL NEW WIRING AND CONDUIT.
- NEW CHLORINE PUMP 'P9', SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING AND NEW CONDUIT. MOTOR STARTER SUPPLIED AND WIRED BY ELECTRICAL.
- NEW CEILING MOUNTED HEAT DETECTOR, EDWARDS INTELLIGENT HEAT DETECTORS, MODEL NO. SIGA-HRD OR APPROVED EQUIVALENT. INSTALL NEW WIRING. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED.
- NEW 120V ELECTRIC ACTUATOR ON EXISTING GATE. INSTALL NEW WIRING AND CONDUIT.
- NEW FIRE PUMP 'P4'. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
- NEW SOLENOID VALVE 'V2'. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
- NEW LEVEL SWITCH 'LS-3'. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
- NEW LEVEL SWITCH 'LS-2'. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
- NEW LEVEL SWITCH 'LS-1'. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
- NEW SOLENOID VALVE 'V1'. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
- NEW EXHAUST FAN 'EF-1'. SEE MECHANICAL DRAWINGS FOR DETAILS. INSTALL NEW WIRING. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
- NEW REVERSE ACTING THERMOSTAT, SEE MECHANICAL DRAWINGS FOR DETAILS. PROVIDED BY MECHANICAL AND WIRED BY ELECTRICAL. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED.
- NEW 30A COMBINATION MOTOR STARTER AND DISCONNECT SWITCH. PROVIDED AND WIRED BY ELECTRICAL. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED.
- ONE (1) NEW RED AND ONE (1) NEW GREEN FIRE PUMP RUNNING LIGHT FIXTURES. RAB DVBKSX-LED14, MODEL NO. DVBKSX-LED14-B-4K-DGY-FR WITH ACCESSORIES: GD100CGS-DGY, RGL100G, AND RGL100R OR APPROVED EQUIVALENT. INSTALL NEW WIRING AND CONNECT TO EXISTING FIRE PUMP CONTROLLER. RE-USE EXISTING CONDUIT AND EXTEND AS REQUIRED.
- TWO (2) NEW FIRE ALARM INPUT MODULES, MODEL: EDWARDS SIGA CT2 FOR FIRE PUMP CONTROLLER. ONE (1) MODULE IS FOR ACTIVATION OF FIRE PUMP AND ONE (1) MODULE FOR FIRE PUMP ALARM NOTIFICATIONS. INPUT MODULES TO BE WIRED INTO FIRE ALARM INITIATING DEVICE LOOP. FIRE ALARM MANUFACTURER TO REPROGRAM AS REQUIRED.



PUMP HOUSE POWER PLAN - NEW

SCALE : 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm

1
E3



PROVINCE OF NEWFOUNDLAND AND LABRADOR
ENGINEERING PERMIT N0458
SNC - LAVALIN INC.
06035
Signature or Member Number (Member-in-Responsible Charge)

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

drawing
POWER PLAN - NEW

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. E3	no. du dessin