

EQUIPMENT CONNECTIONS AND CONTROLS

- INDICATES EXISTING CONDUIT
- MOTOR CONNECTION AS SPECIFIED
- COMBINATION MOTOR STARTER
- LOW TEMPERATURE SENSOR c/w N.O. CONTACTS
- NEW TANK MONITOR SENSOR
- RECESSED OR SURFACE MOUNTED ELECTRICAL PANEL
- JUNCTION BOX.
- 120/208V DIRECT CONNECTION.
- SURGE PROTECTIVE DEVICE (INTEGRAL)

FIRE ALARM SYSTEM

- SURFACE MOUNTED FIRE ALARM CONTROL PANEL

MISCELLANEOUS

- ELECTRICAL DRAWING NOTES

ABBREVIATIONS

- DEL - INDICATES DEVICE TO BE DELETED
- EX - INDICATES EXISTING DEVICE TO REMAIN

SPECIFIC NOTES:

- PROVIDE NEW 21mm EMT CONDUIT FOR FIRE ALARM RELAY CABINET TO SENSOR CONTROLLER.
- REMOVE FIRE PUMP MCC MODULE FROM SERVICE LABEL AS SPARE.
- REMOVE EXISTING SWITCHBOARD. NEW SWITCHBOARD TO BE INSTALLED IN PLACE OF EXISTING.
- NEW FIRE PUMP CONTROLLER TO BE SUPPLIED BY MECHANICAL AND WIRED BY ELECTRICAL. MOUNT IN EXISTING LOCATION TO ALLOW REUSE OF CONDUIT.
- CONTRACTOR SHALL DISCONNECT EXISTING JOCKEY PUMP CONTROLLER AND RECONNECT REPLACEMENT JP-1 CONTROLLER. COORDINATE WITH MECHANICAL CONTRACTOR. PROVIDE TEMPORARY POWER TO JOCKEY PUMP FOR MANUAL CONTROL THROUGHOUT THE SERVICE INTERRUPTION.
- RECONNECT ALL EXISTING SUPERVISORY VALVES FIRE PUMP SENSORS AND CONTROLS WIRING.
- DOMESTIC WATER PUMPS SHALL HAVE A MAXIMUM DOWNTIME OF TWO (2) HOURS DURING TEMPORARY GENERATOR CONNECTION/DISCONNECTION. SEE PHASING SEQUENCE NOTES AND SINGLE LINE DIAGRAM ON DRAWING E-2.
- PROVIDE SUITABLE 610x610mm JUNCTION BOX TO ALLOW FOR EXTENSION OF FIRE ALARM, CONTROL WIRING AND SUPERVISORY SIGNAL FOR FP-1.

PHASING SEQUENCE:

- PROVIDE TEMPORARY GENERATOR: 200kW, 600V, 3Ø, 4W. COORDINATE WATER SYSTEM OPERATORS TO SELECT A MAXIMUM OF TWO (2) PUMPS. COORDINATE A MAXIMUM OF 2HR DOWNTIME OF WATER SYSTEM WITH DEPARTMENTAL REPRESENTATIVE.
- SELECT DIESEL FP-2 AS PRIMARY FIRE PUMP. DECOMMISSION FP-1. REMOVE FIRE PUMP AND ELECTRICAL FEEDS.
- RE-USE FIRE PUMP MCC MODULE TO BACKFEED, CONNECT 600V TEMPORARY GENERATOR AND SHORE POWER AS INDICATED BY DETAIL 1 ON DRAWING E-2. LOCKOUT MAIN BREAKER OF MCC BEFORE STARTING GENERATOR.
- DECOMMISSION SWITCHBOARD, LOCKOUT PRIMARY 2400V AT PAD MOUNT TRANSFORMER. REMOVE SWITCHBOARD AND PREPARE FOR NEW INSTALL. INSTALL NEW SWITCHBOARD. FEED NEW FIRE PUMP CONTROLLER. FEED NEW FIRE PUMP.
- COMMISSION FP-1, RETURN TO SERVICE AS PRIMARY PUMP.
- REPLACE FP-2 AND ASSOCIATED DIESEL TANK.

DRAWING LEGEND

3
E-1

SCALE : N.T.S.

DRAWING NOTES

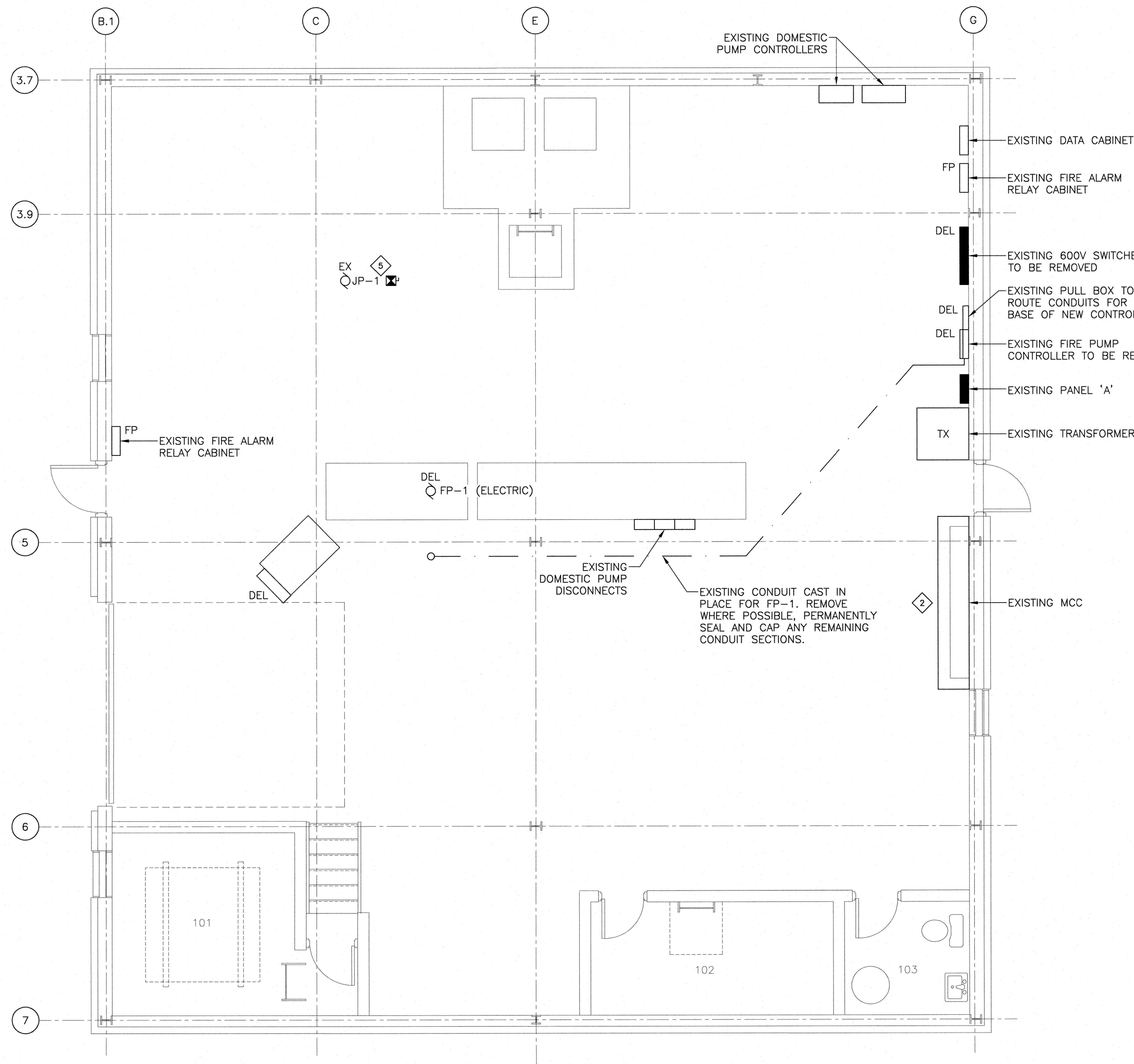
4
E-1

SCALE : N.T.S.

PHASING SEQUENCE

5
E-1

SCALE : N.T.S.

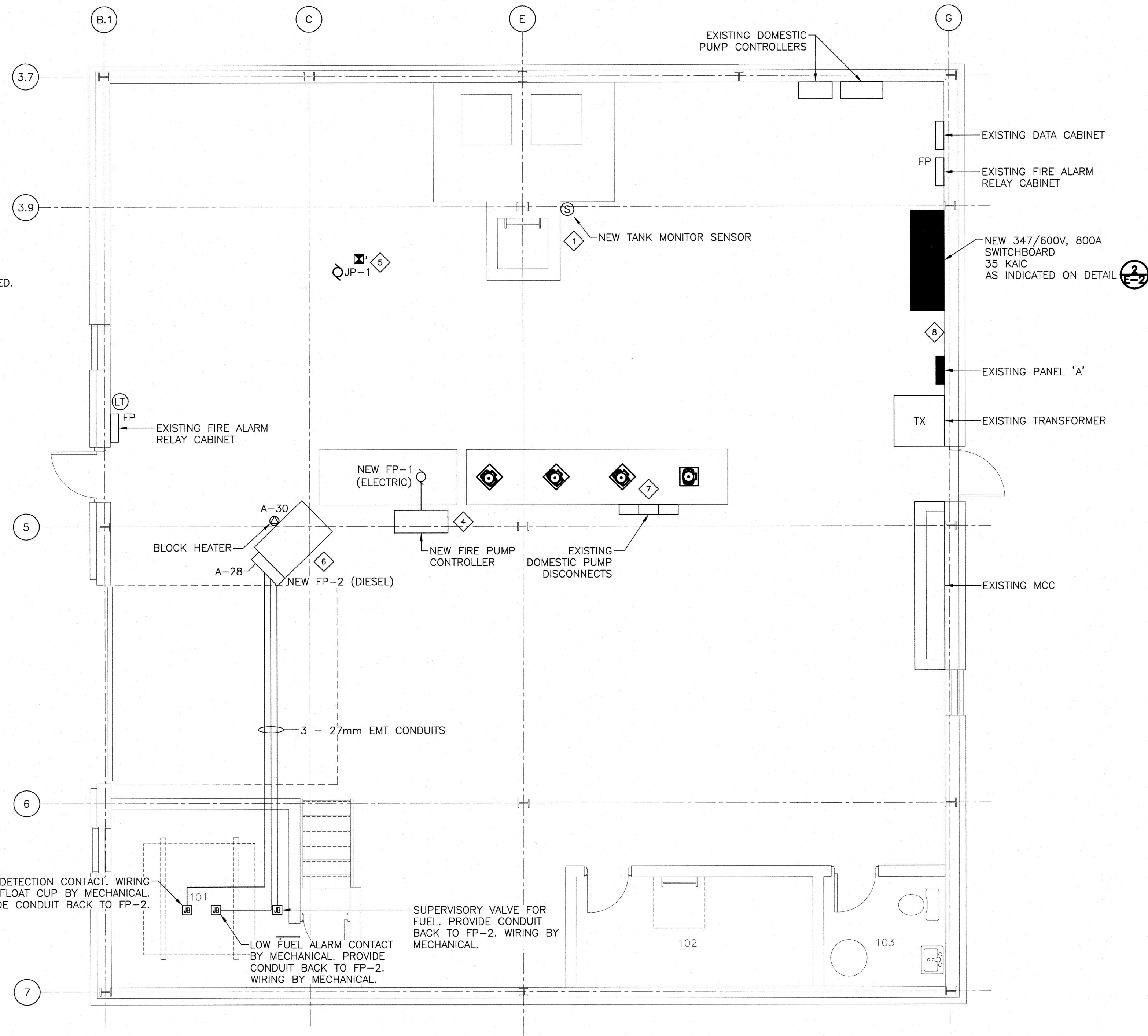


PUMP HOUSE FLOOR PLAN - DEMOLITION

1
E-1

SCALE : 1:50

0m 1m 2m 3m 4m 5m



PUMP HOUSE FLOOR PLAN - MODIFICATION

2
E-1

SCALE : 1:50

0m 1m 2m 3m 4m 5m



0	ISSUED FOR TENDER	03/14 2019
revisions		date

project project

RENOUS DIESEL AND ELECTRIC FIRE PUMP REPLACEMENT

drawing dessin

ELECTRICAL FLOOR PLAN AND DETAILS

designed T.D. conçu

date MARCH, 2018

drawn T.J.F./J.A. dessiné

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Tender Soumission

Project Manager Administrateur de projets TPSGC

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E-1