



**SINGLE LINE DIAGRAM - DEMOLITION** **1**  
**E-2**  
SCALE : N.T.S.

**SINGLE LINE DIAGRAM - NEW WORK** **2**  
**E-2**  
SCALE : N.T.S.

**SPECIFIC NOTES:**

- 1 CONTRACTOR SHALL PERFORM PILL TEST OF EXISTING CONDUITS TO ENSURE CONDUIT INTEGRITY.
- 2 REMOVE FIRE PUMP MCC MODULE FROM SERVICE LABEL AS SPARE FOLLOWING COMPLETION OF FP-1, SEE NOTE 5.
- 3 AFTER ELECTRIC FIRE PUMP REMOVAL, LOCKOUT MAIN BREAKER FOR MCC TO ALLOW BACKFEED OR TEMPORARY POWER TO MCC.
- 4 NEW FIRE PUMP CONTROLLER TO BE SUPPLIED BY MECHANICAL AND WIRED BY ELECTRICAL.
- 5 REUSE SPARE MCC MODULE TO CONNECT TEMPORARY GENERATOR DURING SWITCHBOARDS REPLACEMENT ONLY.
- 6 TEMPORARY DIESEL GENERATOR SIZED TO 200KW, 600V, 3Ø, 4W. BREAKER AND TEMPORARY CABLES SIZED TO MEET GENERATOR SUPPLIER RECOMMENDATIONS. CONTRACTOR TO PROVIDE ALL FUEL REQUIRED FOR SHUTDOWN.

**DRAWING NOTES** **3**  
**E-2**  
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**PHASING SEQUENCE:**

1. 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.
2. SELECT DIESEL FP-2 AS PRIMARY FIRE PUMP. DECOMMISSION FP-1. REMOVE FIRE PUMP AND ELECTRICAL FEEDS.
3. 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.
4. 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.
5. COMMISSION FP-1, RETURN TO SERVICE AS PRIMARY PUMP.
6. REPLACE FP-2 AND ASSOCIATED DIESEL TANK.

**PHASING SEQUENCE** **4**  
**E-2**  
SCALE : N.T.S.



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revisions		date

project

**RENOUS DIESEL AND  
ELECTRIC FIRE PUMP  
REPLACEMENT**

drawing

**ELECTRICAL  
SCHEMATICS**

designed T.D.

date MARCH, 2018

drawn T.J.F./J.A.

date MARCH, 2018

approved T.D.

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Tender

Submission

PWSC Project Manager

Administrateur de projets PWSC

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**E-2**