

MAINTENANCE BUILDINGS

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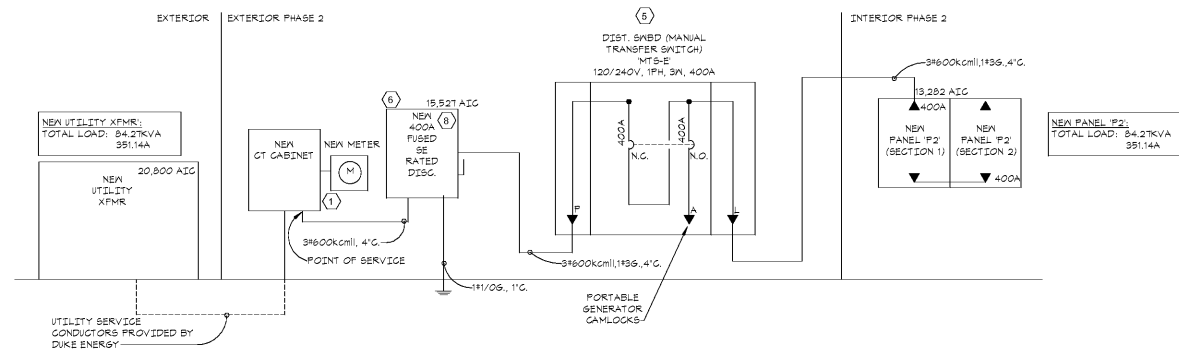
REVISIONS:

No.	Description	Date
01	ISSUED FOR CONSTRUCTION	06/19/20

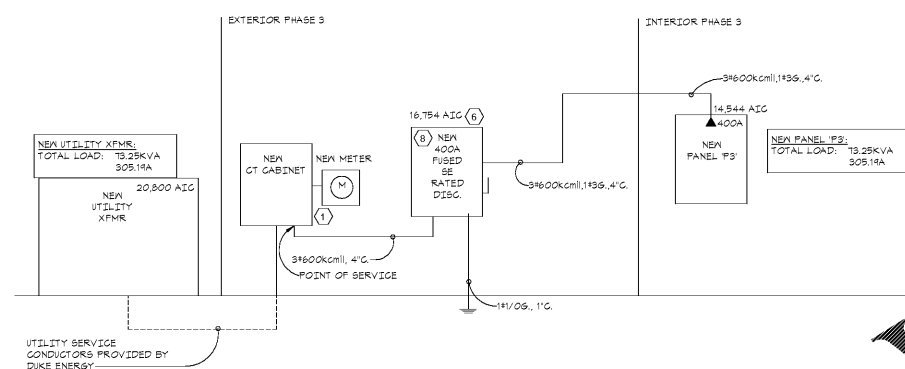
PROJECT: 9600-197950  
DATE: 19 JUNE 2020  
DRAWN BY: TT  
CHECKED BY: JSL

RISER DIAGRAMS

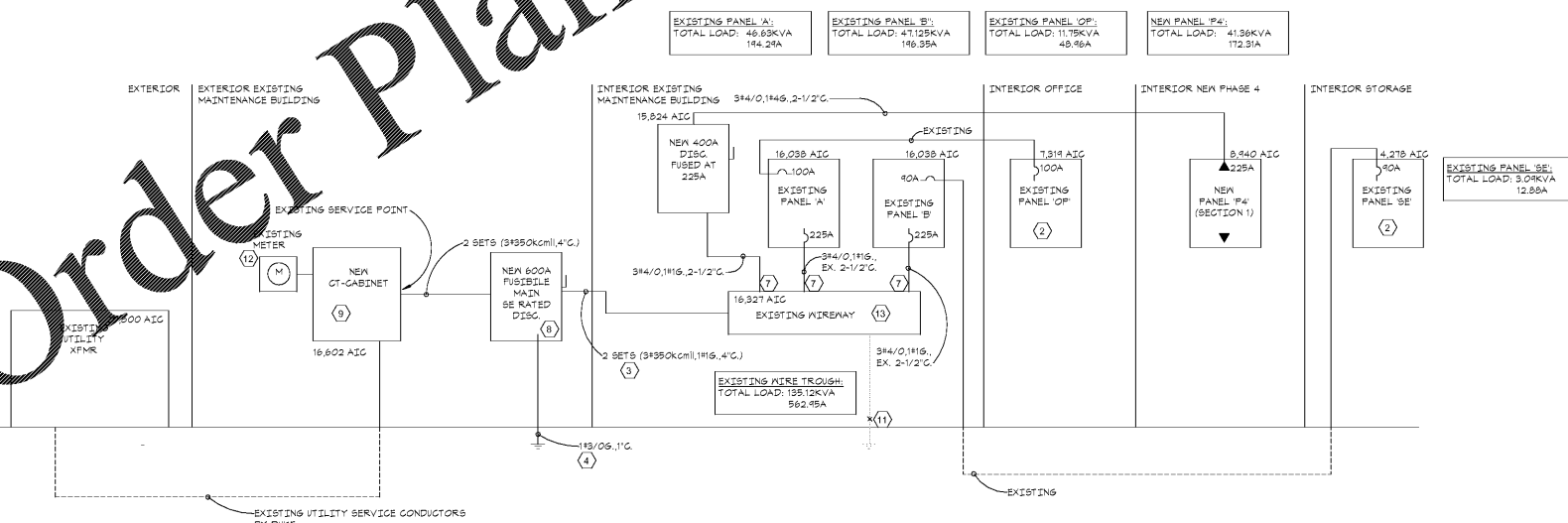
E-004



2 PARTIAL ELECTRICAL RISER DIAGRAM PHASE 2  
E-004 NOT TO SCALE



3 PARTIAL ELECTRICAL RISER DIAGRAM PHASE 3  
E-004 NOT TO SCALE



1 PARTIAL ELECTRICAL RISER DIAGRAM PHASE 1 AND 4  
E-004 NOT TO SCALE

- LEGEND NOTES:  
(APPLY TO THIS SHEET ONLY)
- (1) PROVIDE DUKE ENERGY COMPLIANT CT-CABINET AND METER ENCLOSURE.
  - (2) PANEL SHOWN FOR REFERENCE ONLY.
  - (3) REPLACE EXISTING SERVICE CONDUIT WITH NEW SERVICE CONDUIT SIZE AND CONDUCTORS DUE TO INCREASE OF SERVICE SIZE.
  - (4) NEW BUILDING GROUNDING ELECTRODE SYSTEM CONDUCTOR SHALL BE INTERCEPTED AT A POINT DETERMINED IN THE FIELD AND EXTENDED TO THE DISCONNECT TO REESTABLISH A COMPLETE GROUNDING ELECTRODE SYSTEM AT THE SERATED DISCONNECT PER NEC 250.
  - (5) PROVIDE A UL1009 UL LISTED MANUAL TRANSFER SWITCH, BY ESL POWER SYSTEMS IN COMPLIANCE WITH NEC 700.3(F) FOR TEMPORARY CONNECTIVITY OF A PORTABLE GENERATOR DURING NORMAL POWER LOSS. PROVIDE MECHANICAL INTERLOCK IF NORMALLY CLOSED CIRCUIT BREAKER AND NORMALLY OPEN BREAKER TO CAMLOCK ACCESS CONNECTION SECTION. MARK PHASE ROTATION AND GROUNDING ELECTRODE BONDING. PROVIDE A GROUND TERMINAL BUS CONNECTED TO THE BUILDING'S GROUNDING ELECTRODE, MATCHING SIZE TO THE GENERATOR, FOR THE PORTABLE GENERATOR'S CONNECTION.
  - (6) PROVIDE NEMA 3R ENCLOSURE FOR DISCONNECT.
  - (7) PROVIDE NEW POLARIS LUGS FOR TAPS OF 600A THROUGH CONDUCTORS IN EXISTING WIRE TROUGH.
  - (8) NAME PLATE ON NEW DISCONNECT MUST READ THE CALCULATED AVAILABLE FAULT CURRENT.
  - (9) PROVIDE NEW CT CABINET PER DUKE ENERGY STANDARD. CT-CABINET TO BE MOVED 3 FEET TO THE LEFT OF THE DEMOND CT-CABINET TO MAKE ROOM FOR NEW 600A DISCONNECT. REFER TO SHEET E-103.
  - (10) EXISTING GROUNDING WIRES TO BE REMOVED AND REPLACED WITH 1#16 PER NEC 250.122 (G). COORDINATE EXISTING GROUND BAR PANEL CAN ACCEPT 1#16. IF NOT THEN REPLACE IT.
  - (11) THE EXISTING BUILDING GROUNDING ELECTRODE SYSTEM CONNECTION SHALL BE REMOVED FROM THE EXISTING WIREWAY. THE EXISTING BONDING CONNECTION SHALL BE REMOVED BETWEEN THE GROUND AND NEUTRAL WITHIN THE WIREWAY. PROVIDE A NEW EQUIPMENT GROUNDING CONDUCTOR IN THE FEEDER BETWEEN THE MAIN DISCONNECT AND WIREWAY AS SHOWN.
  - (12) EXISTING METER NEEDS TO BE RECONNECTED TO NEW CT-CABINET. COORDINATE ANY WORK REQUIRED WITH DUKE ENERGY.
  - (13) REPLACE ALL EXISTING WIRE IN THE EXISTING WIREWAY WITH NEW.

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