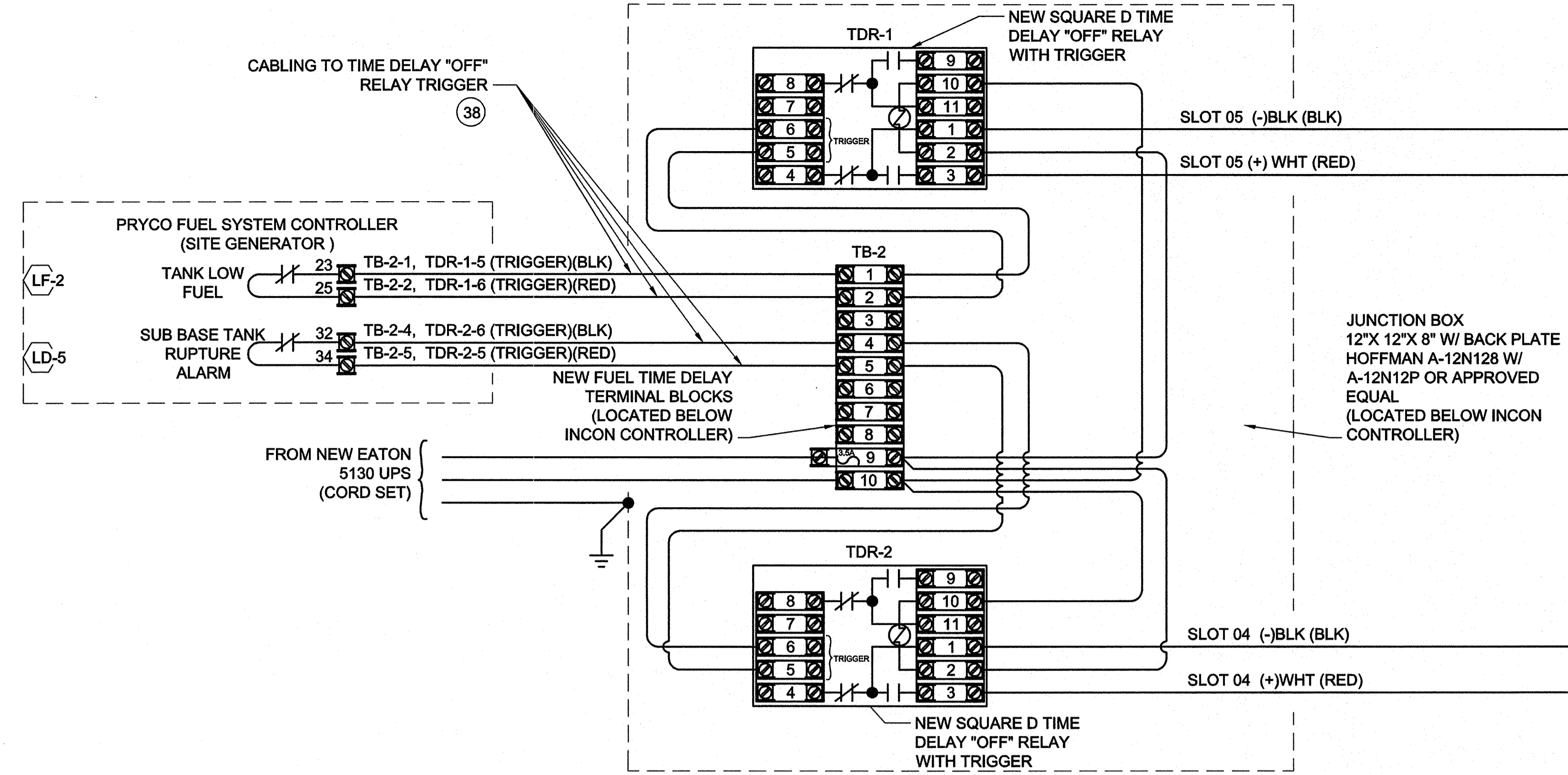


CABLING TO TIME DELAY "OFF" RELAY TRIGGER (38)



**FUEL SYSTEM / ALARM
RELAY CONNECTION DIAGRAM**

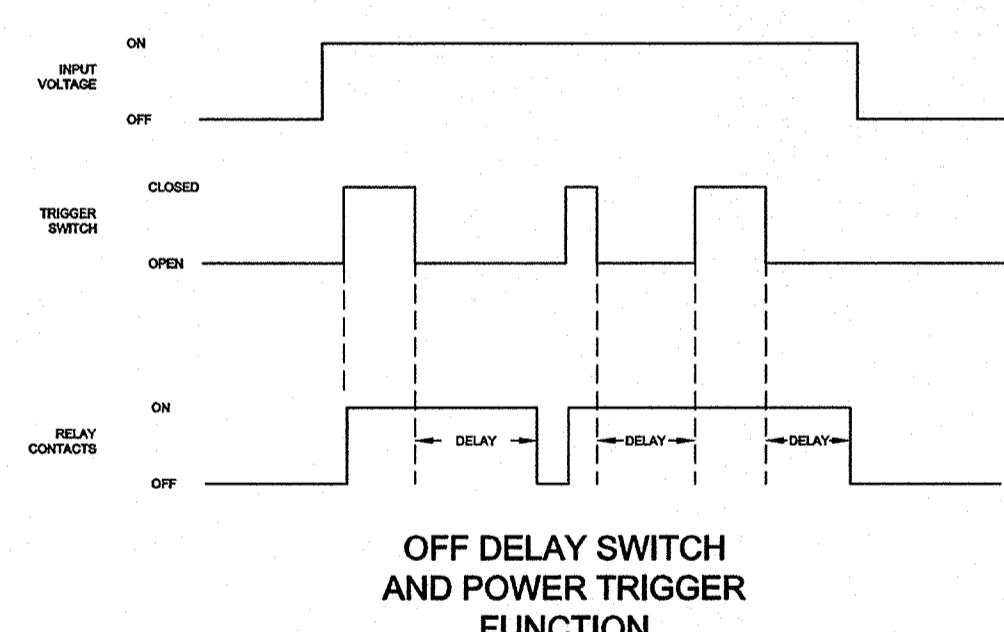
DEVICE DATA:

- 1. ELECTRONIC TIMING RELAY - OFF DELAY SWITCH - CLASS 9050 TYPE JCK2 2 V20 SQUARE D
- 2. SNAPMOUNT SOCKETS - SCREW TERMINAL - 11 PIN TUBULAR SINGLE TIER - 8501NR61 SQUARE D
- 3. 35 mm DIN 3 TRACK MOUNTING RAIL
- 4. TERMINAL BLOCKS - 300VAC RATED - #12AWG - #18AWG DIN RAIL MOUNTING
- 5. FUSED TERMINAL - 300VAC RATED - 10 AMP MAX RATING

RELAY OPERATIONAL DATA:

INPUT VOLTAGE MUST BE APPLIED CONTINUOUSLY. WHEN THE TRIGGER SWITCH CLOSES, THE RELAY CONTACTS CHANGE STATE. WHEN THE TRIGGER SWITCH OPENS, THE TIME DELAY BEGINS. WHEN THE DELAY IS COMPLETE, THE CONTACTS RETURN TO THEIR SHELF STATE. IF THE TRIGGER SWITCH CLOSES BEFORE THE TIME DELAY IS COMPLETE, THEN THE TIMING IS RESET. WHEN THE TRIGGER SWITCH OPENS, THE DELAY BEGINS AGAIN, AND THE RELAY CONTACTS REMAIN IN THE ENERGIZED STATE. IF THE INPUT VOLTAGE IS REMOVED, THE RELAY CONTACTS RETURN TO THEIR SHELF STATE.

TIMING DIAGRAM



NOTES:

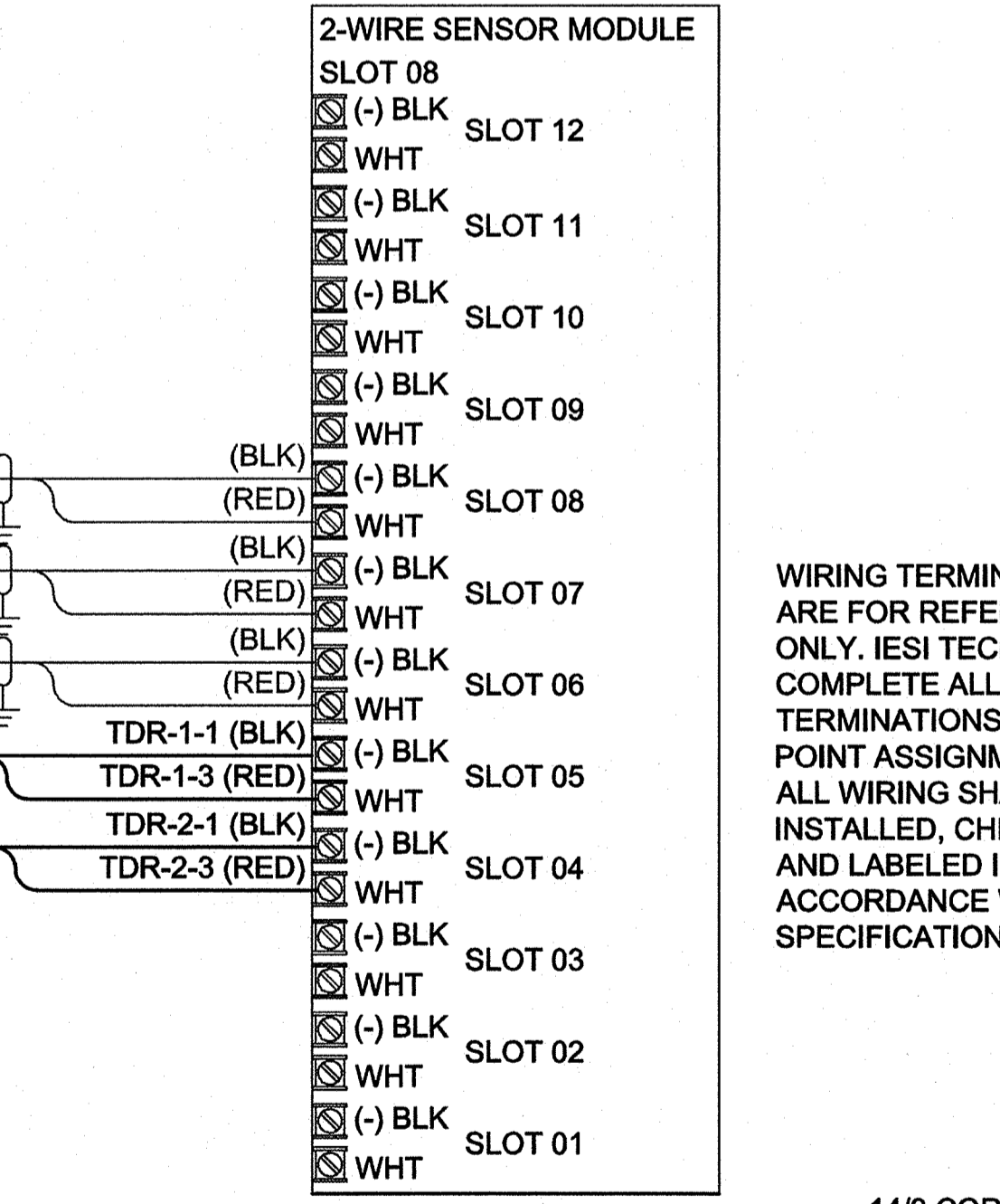
1. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC NFPA 70) AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND ALL SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS.
2. ALL INSTRUMENT / CONTROL CABLES SHALL BE INDIVIDUALLY SHIELDED DUE TO HIGH RF SIGNALS. SHIELDS SHALL BE BONDED AT THE CONTROLLER AND TAPED AT THE DEVICES UNLESS SHOWN DIFFERENTLY BY MANUFACTURER TERMINATION DRAWINGS.
3. SEE CONTROLLER SUPPLIER DRAWINGS FOR WIRING TERMINATIONS AND WIRING REQUIREMENTS. FUEL SYSTEM RISER DIAGRAM IS DIAGRAMMATIC. CABLING SIZE AND QUANTITY MAY VARY DEPENDING ON FURNISHED EQUIPMENT REQUIREMENTS.
4. ALL CONTACTS ARE SHOWN IN DE-ENERGIZED POSITIONS CONSIDERED "FAIL SAFE" WHICH WILL ALSO INDICATE AN ALARM STATE OF THE DEVICE.
5. REMOTE ALARM CIRCUITS WILL BE ROUTED THROUGH TIME DELAY RELAYS, THIS WILL ALLOW TIME FOR THE SITE GENERATOR TO COME ON LINE AND RESTORE POWER PREVENTING NUISANCE ALARMS DUE TO POWER OUTAGES. TIME DELAY OFF RELAYS SHALL BE SET AT 30 SECONDS TO ALLOW THE SITE POWER GENERATOR TO COME ON LINE AND PROVIDE POWER.
6. THE FOLLOWING PANELS WILL BE BACKED UP UTILIZING UPS:
 - GENERATOR MODULE - RLH FIBER OPTIC TRANSMITTER PANEL
 - GENERATOR FUEL SYSTEM CONTROLLER "SAUK"
 - TRANSMITTER MODULE - RLH FIBER OPTIC RECEIVER PANEL
 - INCON FUEL SYSTEM CONTROL PANEL FSCP-001
 - VIKING ALARM AUTO DIALER
7. UPS INSTALLATION IS BY SABRE INDUSTRIES AND IS SHOWN FOR REFERENCE.

LEGEND:

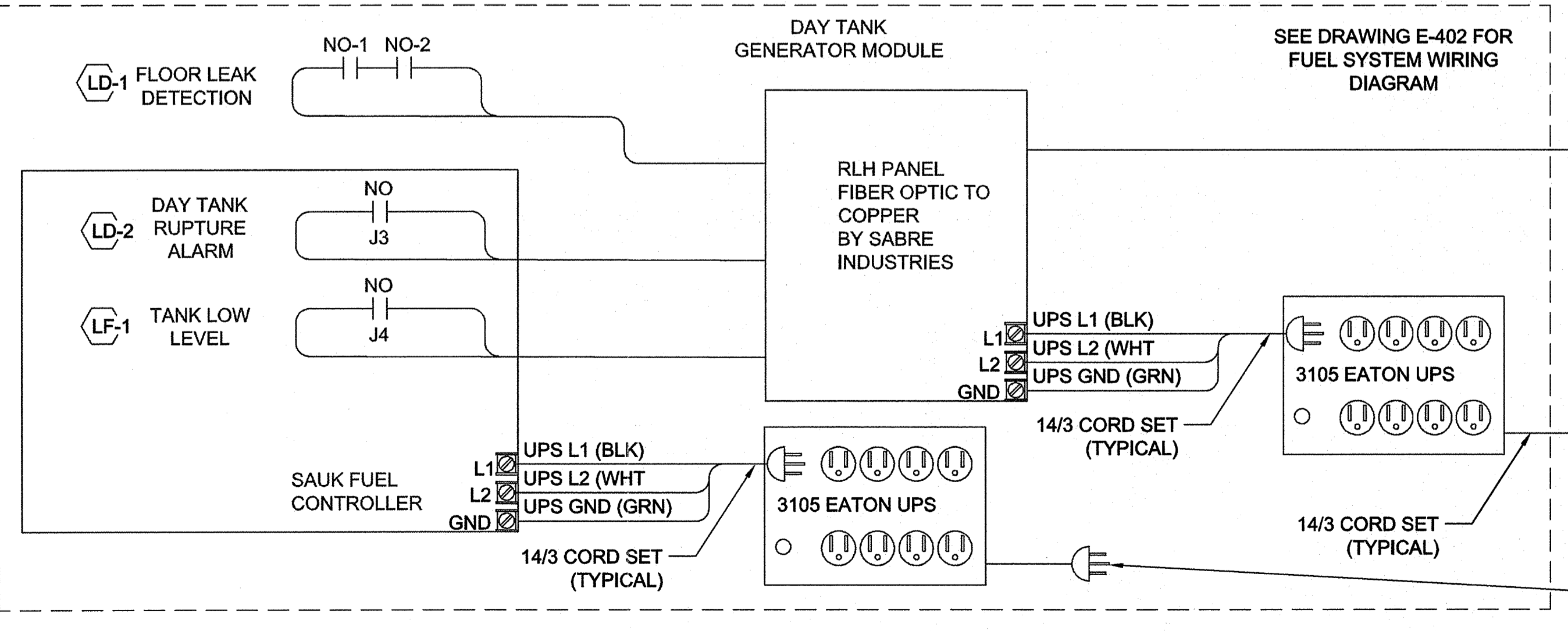
- * DENOTES WIRE / CABLE ONLY WITHIN CONTROLLER / ENCLOSURE
- CABLE SHIELD TERMINATED TO GROUNDING POINT
- CABLE SHIELD SHOWN CUT AND TAPED NOT TERMINATED
- INSTALLATION (BY SABRE INDUSTRIES)
- NEW INSTALLATION (BY SITE CONTRACTOR)

NEW CABLES ROUTED FROM RELAYS TO INCON TERMINALS SEE DRAWING E-402 (38)

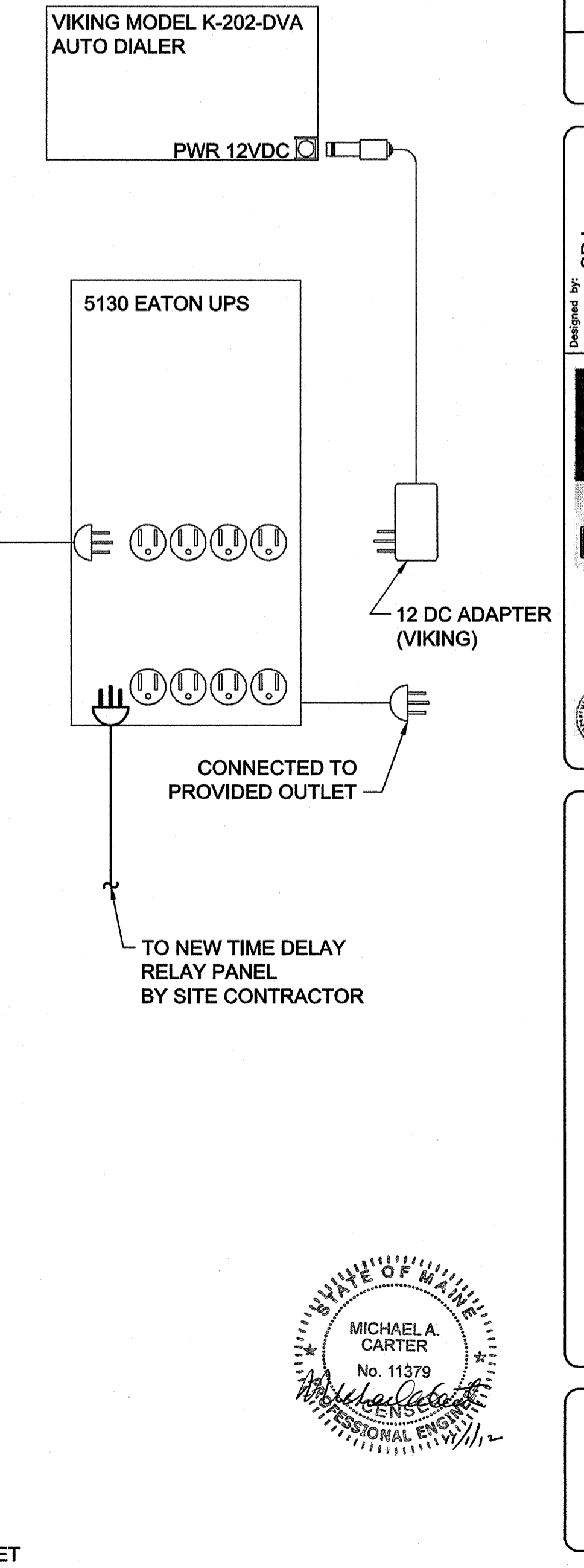
**TRANSMITTER MODULE FUEL SYSTEM CONTROL PANEL FSCP-001
PARTIAL CONNECTION DIAGRAM
(SEE SUPPLIER DRAWING FOR COMPLETE WIRING CONNECTION)**



WIRING TERMINATIONS ARE FOR REFERENCE ONLY. IESI TECH WILL COMPLETE ALL TERMINATIONS AND POINT ASSIGNMENTS ALL WIRING SHALL BE INSTALLED, CHECKED, AND LABELED IN ACCORDANCE WITH SPECIFICATIONS



**FUEL SYSTEM / ALARM
RISER DIAGRAM**



US Army Corps of Engineers
OMAHA DISTRICT

Project Manager	
DC Reviewer	
Architectural	
Mechanical	
Plumbing	
Electrical	
City	

ISSUED FOR CONSTRUCTION	0
Description	
Date	11/7/12
Appr	

Designed by: SDJ
Drawn by: SDJ
Reviewed by: SDJ
Date: 2012

63 SOUTH ROYAL STREET SUITE 200
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KBR
Engineering Services by
KBR Engineering Co. LLC

FEMA EMERGENCY RADIO NETWORK
ON WIGAN PORTLAND, MAINE

**TRANSMITTER / GENERATOR
UPS / TIME DELAY DIAGRAM**

STATE OF MAINE
MICHAEL A. CARTER
No. 11379
PROFESSIONAL ENGINEER

Drawing Number:
E-404