

- SHEET KEYNOTES**
- BUSHING CURRENT TRANSFORMERS (BCT'S) WHICH ARE CONNECTED TO THE THE FIELD TERMINATION CABINET (FTC) ARE TO HAVE THE NEUTRAL GROUNDED ONLY AT THE FTC.
  - BCT'S WHICH ARE NOT CONNECTED TO THE THE FTC ARE TO HAVE THE NEUTRAL GROUNDED WITHIN THE SOURCE EQUIPMENT CONTROL COMPARTMENT (CAB), AND EACH TAP SHORTED AT THE CAB SHORTING BLOCK USING THE SHORTING STRIP.

- LEGEND**
- FIELD INTERCONNECT WIRE
  - OR □ TERMINAL BLOCK IN EQUIPMENT FOR FACTORY CONNECTIONS
  - ⊗ TERMINAL BLOCK IN FIELD TERMINAL CABINET (FTC)
  - ⊗ SHUNT TERMINAL BLOCK IN EQUIPMENT FOR FACTORY USE
  - ⊗ SHUNT TERMINAL BLOCK IN EQUIPMENT FOR CUSTOMER CONNECTIONS
  - ⊗<sub>S</sub> SHORTING TERMINAL BLOCK IN FTC FOR FIELD CONNECTIONS
  - # BUSHING
  - TERMINAL IN CIRCUIT BREAKER
  - TERMINAL IN TRANSFORMER
  - TERMINAL IN DISCONNECT SWITCH
  - (RP#) RELAY PANEL NUMBER
  - (M) DISCONNECT SWITCH MOTOR OPERATOR
  - (J) FIELD INSTALLED JUMPER
  - TERMINAL BLOCK CONTROL ENCLOSURE RELAY PANEL
  - + RELAY PANEL INTERCONNECT WIRE (PANEL TO PANEL)

SOUTHERN NEVADA  
WATER AUTHORITY™

VERIFY SCALE  
1 1/2 0 1/2  
BAR REPRESENTS  
ONE AND ONE-HALF  
INCHES ON ORIGINAL

STAGE II RELIABILITY UPGRADES  
POWER SUBSTATION

ELECTRICAL  
THREE LINE DIAGRAM  
HVCB 52TA

SCALE  
HORIZ SCALE  
VERT SCALE  
NTS

3010 West Charleston Blvd Ste 100  
Las Vegas NV 89102-1969  
Tel. 702-978-8010  
Fax 702-978-7633

DRAWN BY:  
CHRIS IMAI

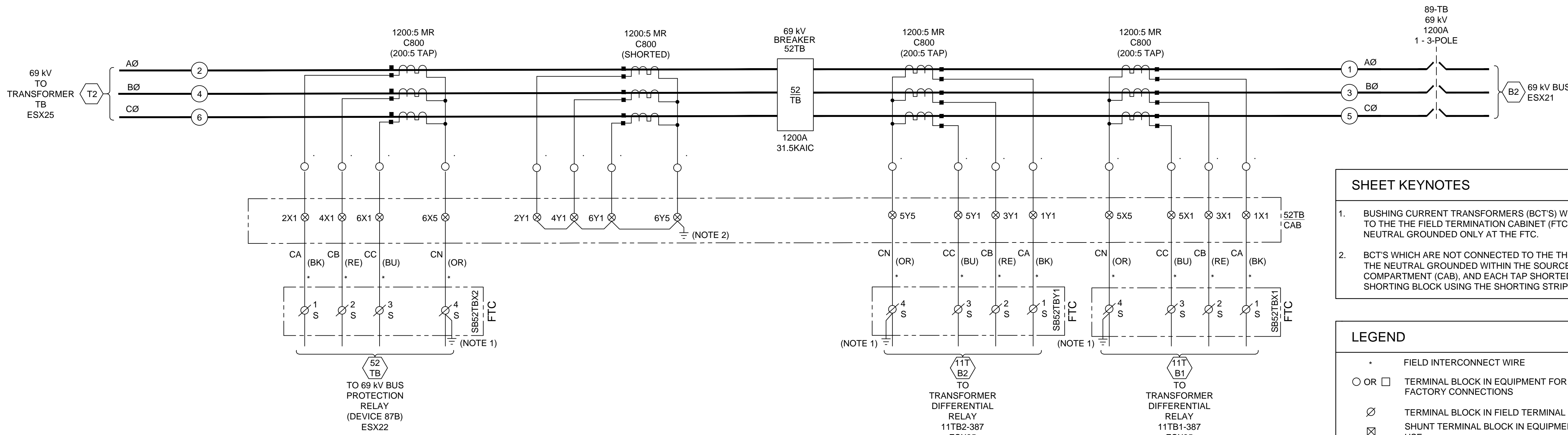
CHECKED BY:  
KEN LONG

ISSUED FOR PROCUREMENT  
AUGUST 24, 2023

PROJECT: 3636S  
COMMIT: 010327.0.2  
DRAWING/NUMBER  
ESX22  
SHEET 2 OF 7

CLV DWG # \_\_\_\_\_

REVISIONS:



- SHEET KEYNOTES**
- BUSHING CURRENT TRANSFORMERS (BCT'S) WHICH ARE CONNECTED TO THE THE FIELD TERMINATION CABINET (FTC) ARE TO HAVE THE NEUTRAL GROUNDED ONLY AT THE FTC.
  - BCT'S WHICH ARE NOT CONNECTED TO THE THE FTC ARE TO HAVE THE NEUTRAL GROUNDED WITHIN THE SOURCE EQUIPMENT CONTROL COMPARTMENT (CAB), AND EACH TAP SHORTED AT THE CAB SHORTING BLOCK USING THE SHORTING STRIP.

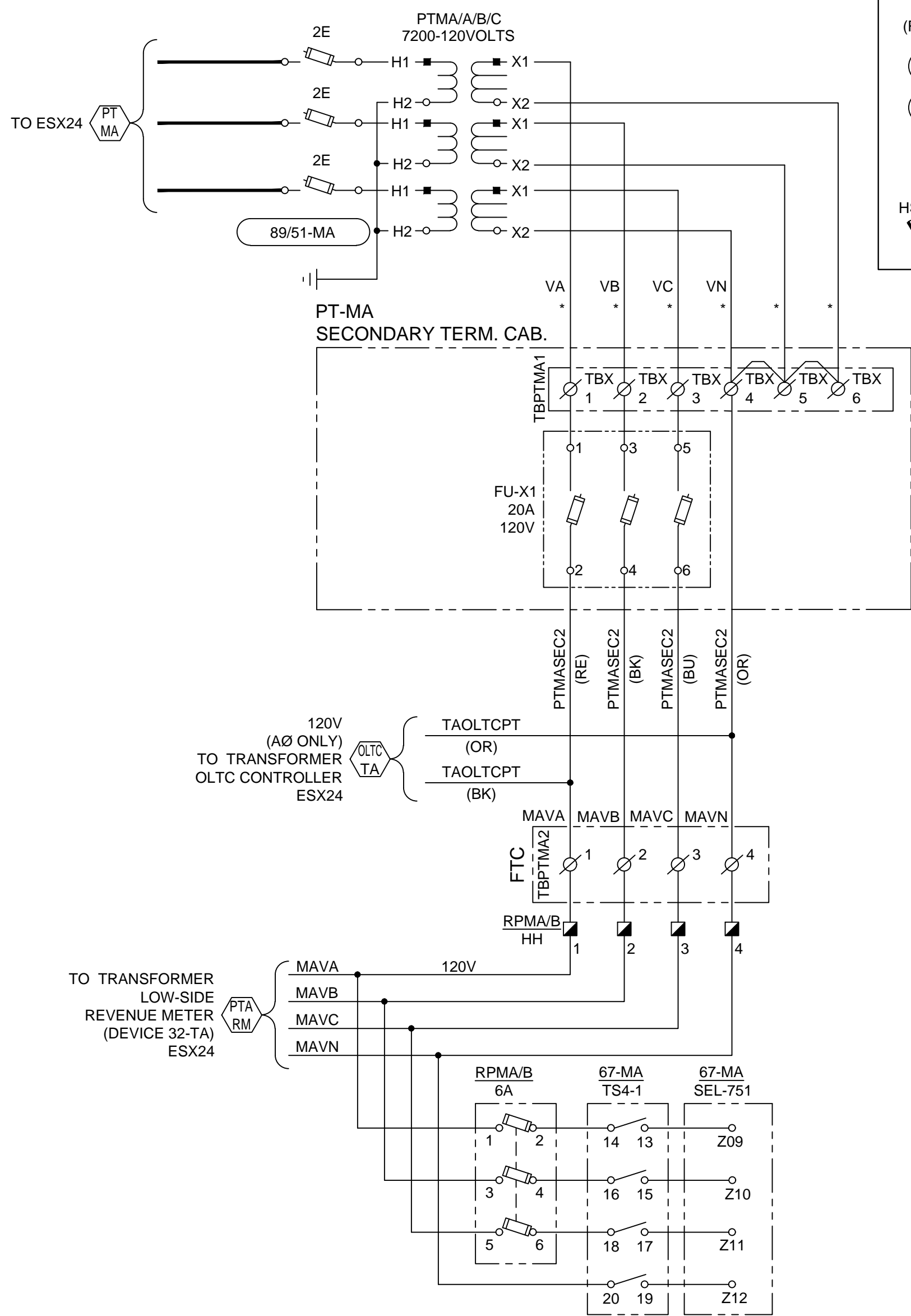
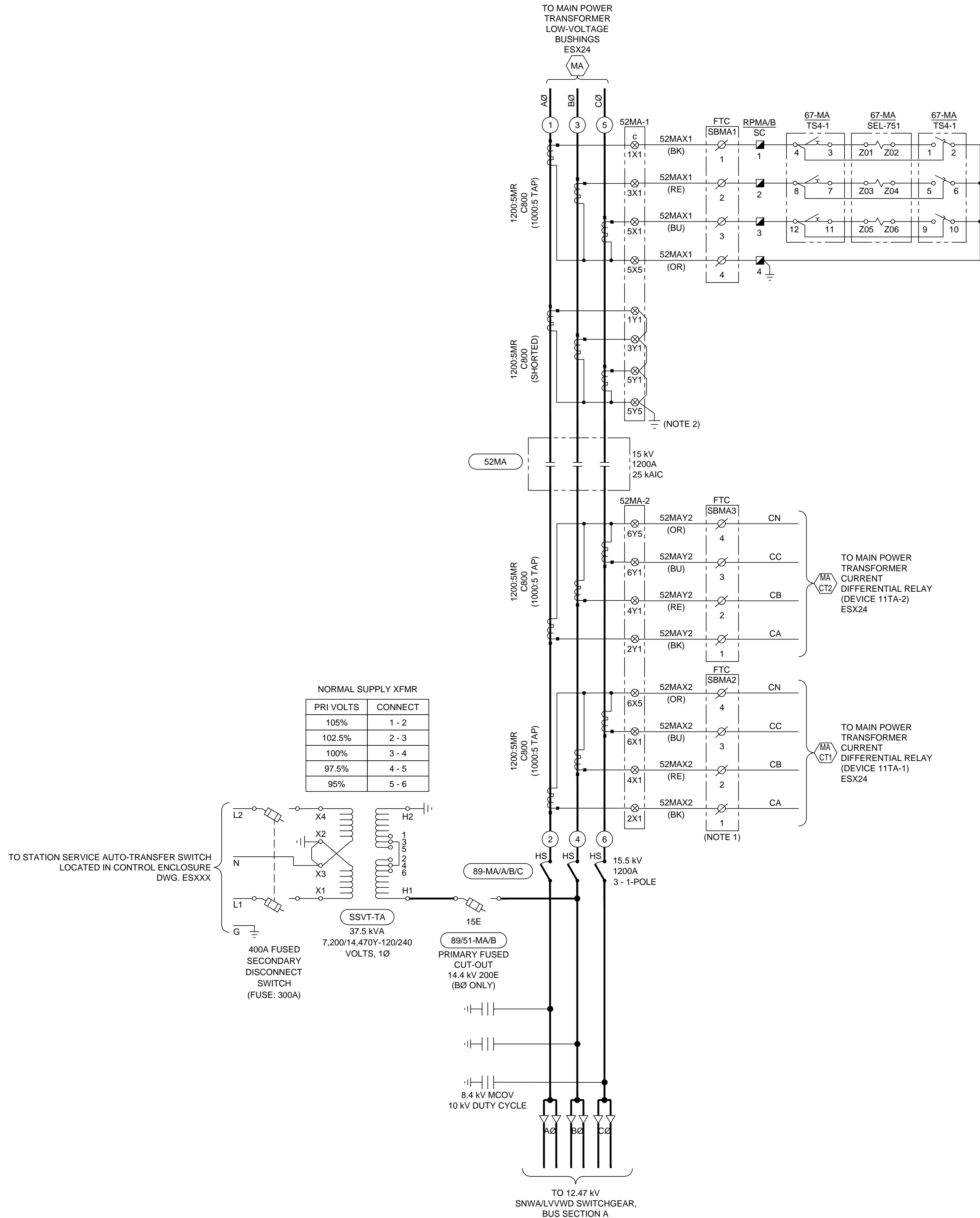
- LEGEND**
- FIELD INTERCONNECT WIRE
  - OR □ TERMINAL BLOCK IN EQUIPMENT FOR FACTORY CONNECTIONS
  - ⊗ TERMINAL BLOCK IN FIELD TERMINAL CABINET (FTC)
  - ⊗ SHUNT TERMINAL BLOCK IN EQUIPMENT FOR FACTORY USE
  - ⊗ SHUNT TERMINAL BLOCK IN EQUIPMENT FOR CUSTOMER CONNECTIONS
  - ⊗<sub>S</sub> SHORTING TERMINAL BLOCK IN FTC FOR FIELD CONNECTIONS
  - ⊗ BUSHING
  - TERMINAL IN CIRCUIT BREAKER
  - TERMINAL IN TRANSFORMER
  - TERMINAL IN DISCONNECT SWITCH
  - (RP#) RELAY PANEL NUMBER
  - (M) DISCONNECT SWITCH MOTOR OPERATOR
  - (J) FIELD INSTALLED JUMPER
  - TERMINAL BLOCK CONTROL ENCLOSURE RELAY PANEL
  - + RELAY PANEL INTERCONNECT WIRE (PANEL TO PANEL)











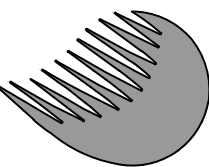
## SHEET KEYNOTES

- DO NOT GROUND DIFFERENTIAL RELAY CURRENT CIRCUIT AT LOCATION IN FTC.
- BCT'S WHICH ARE NOT CONNECTED TO THE THE FTC ARE TO HAVE THE NEUTRAL GROUNDED WITHIN THE SOURCE EQUIPMENT CONTROL COMPARTMENT (CAB), AND EACH TAP SHORTED AT THE CAB SHORTING BLOCK USING THE SHORTING STRIP.

## LEGEND

- FIELD INTERCONNECT WIRE
- OR TERMINAL BLOCK IN EQUIPMENT FOR FACTORY CONNECTIONS
- TERMINAL BLOCK IN FIELD TERMINAL CABINET (FTC)
- SHUNT TERMINAL BLOCK IN EQUIPMENT FOR FACTORY USE
- SHUNT TERMINAL BLOCK IN EQUIPMENT FOR CUSTOMER CONNECTIONS
- SHORTING TERMINAL BLOCK IN FTC FOR FIELD CONNECTIONS
- BUSHING
- TERMINAL IN CIRCUIT BREAKER
- TERMINAL IN TRANSFORMER
- TERMINAL IN DISCONNECT SWITCH
- RELAY PANEL NUMBER
- DISCONNECT SWITCH MOTOR OPERATOR
- FIELD INSTALLED JUMPER
- TERMINAL BLOCK CONTROL ENCLOSURE RELAY PANEL
- RELAY PANEL INTERCONNECT WIRE (PANEL TO PANEL)
- HOOK STICK OPERATED DISCONNECT SWITCH

SOUTHERN NEVADA  
WATER AUTHORITY™



VERIFY SCALE



BAR REPRESENTS  
ONE AND ONE-HALF  
INCHES ON ORIGINAL

STAGE II RELIABILITY UPGRADES  
POWER SUBSTATION

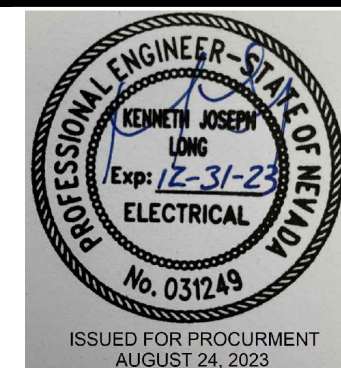
ELECTRICAL  
THREE LINE DIAGRAM  
MVCB 52MA, PT-MA & SSVT-TA

SCALE  
HORIZ SCALE  
VERT SCALE  
NTS

Stantec

3010 West Charleston Blvd Ste 100  
Las Vegas NV 89102-1969  
Tel: 702-978-8010  
Fax: 702-978-7633

DRAWN BY: CHRIS IMAI  
CHECKED BY: KEN LONG



PROJECT: 3636S

COMMIT: 010327.0.2

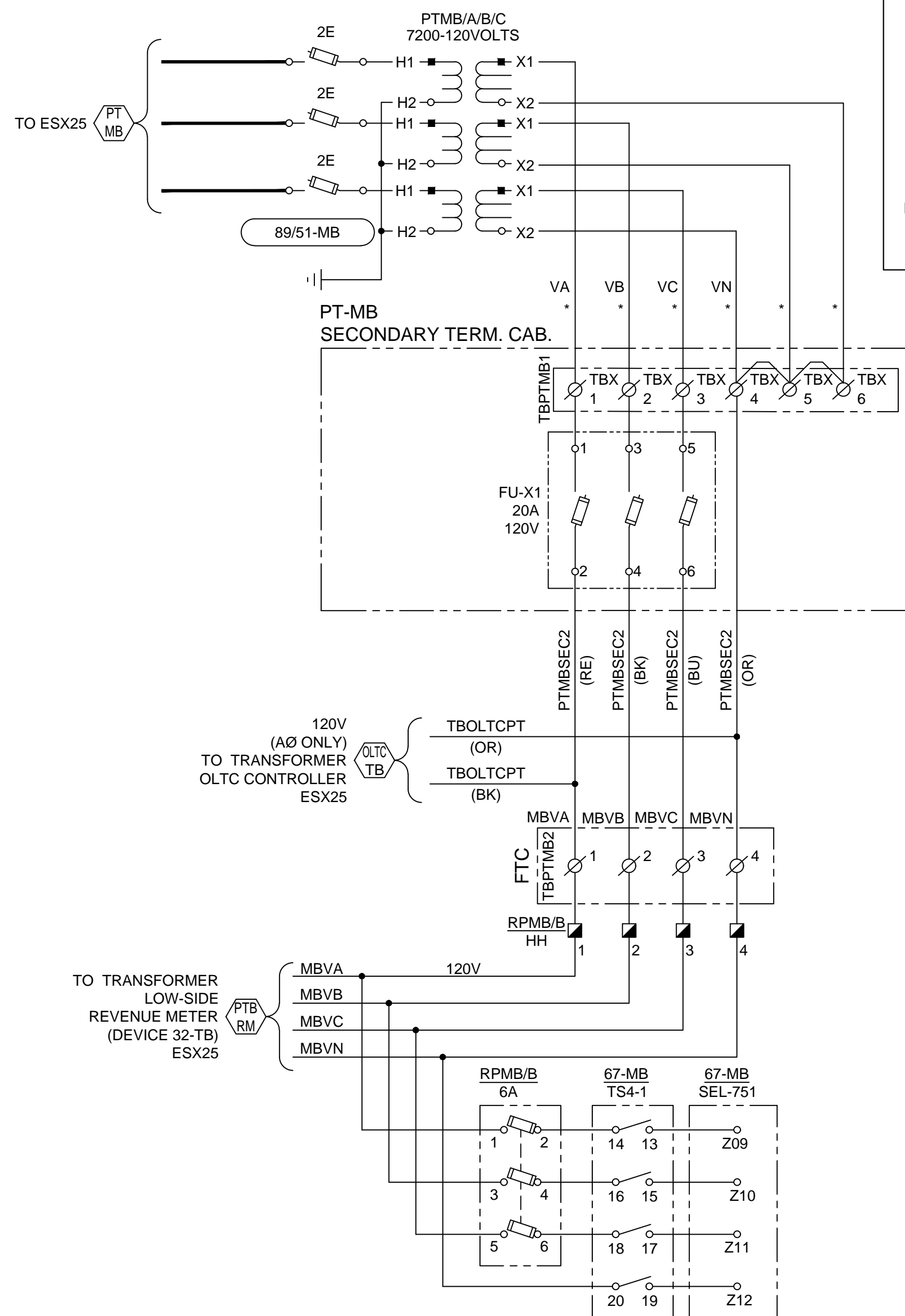
DRAWING/NUMBER

ESX26

SHEET 6 OF 7

CLV DWG #





CLV DWG #