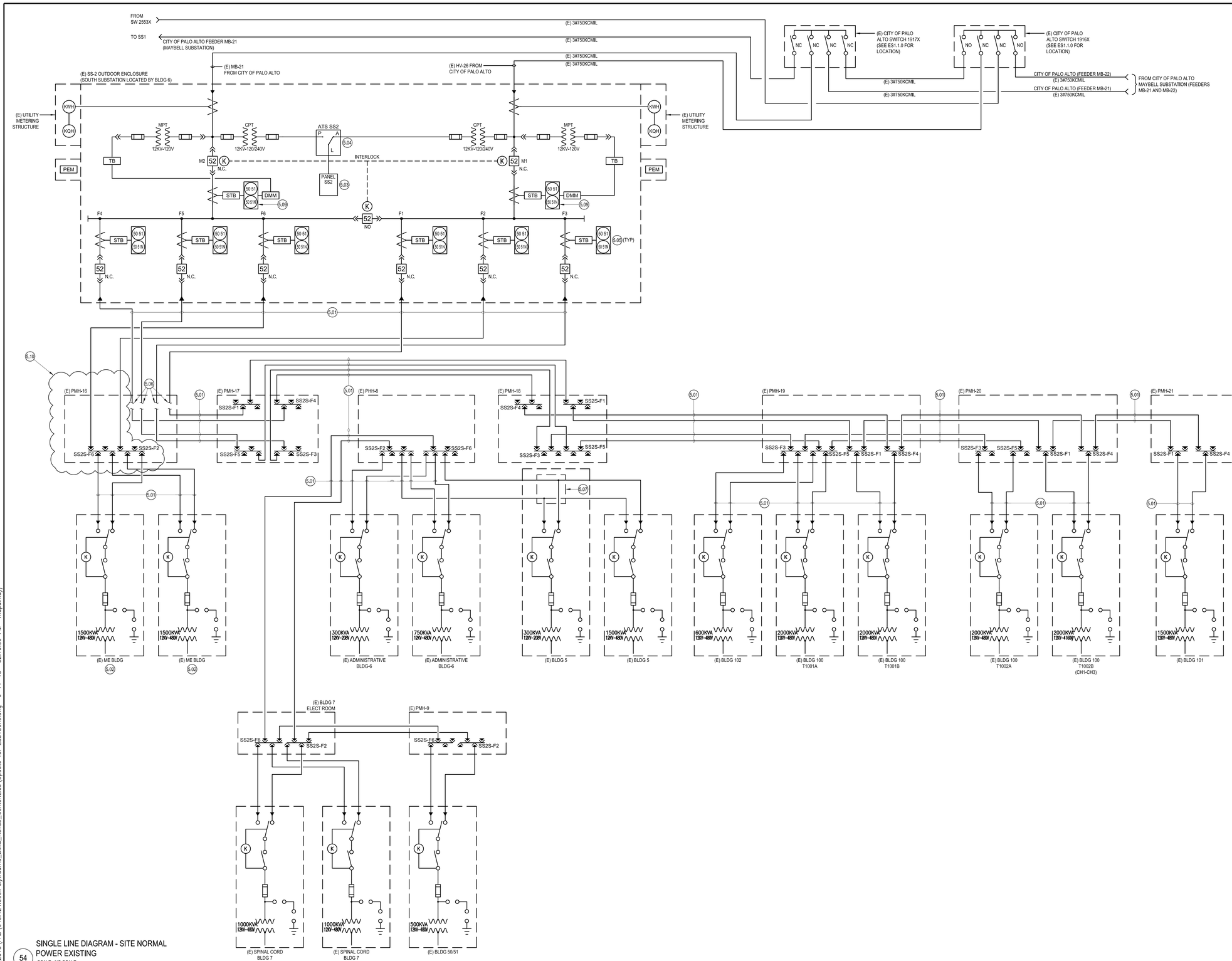

54 SINGLE LINE DIAGRAM - SITE NORMAL POWER EXISTING
SCALE: NO SCALE

SHEET NOTES

1. REFER TO SITE PLANS FOR LOCATION OF NEW AND EXISTING UNDERGROUND DUCTBANKS, MANHOLES, AND BUILDINGS.
2. REMOVAL OR MODIFICATIONS TO PRIMARY SERVICE FEEDER SHALL BE PHASED TO MINIMIZE POWER INTERRUPTIONS. GENERALLY, REPLACE ONE SERVICE FEEDER AT A TIME. SUBMIT REMOVAL AND REPLACEMENT PHASING PLAN AND METHOD OF PROCEDURE TO VAPA FOR REVIEW AND APPROVAL. PROVIDE TEMPORARY POWER FOR EXTENDED (4 HOURS OR MORE) POWER INTERRUPTIONS OR AS REQUIRED BY VAPA. COORDINATE POWER INTERRUPTION REQUIREMENTS WITH VAPA.

KEYNOTES

5,01 (E) FEEDER: 4" DUCT WITH 3#2/0 15KV CABLE + 1#1/0G.

5,02 COORDINATE REMOVAL AND RECONNECTION OF BUILDING ELECTRICAL SERVICE TO MINIMIZE SHUT DOWN DURATION, REFER TO NEW WORK ES5,1.5, COORDINATE SHUT DOWN WITH VAPA.

5,03 EXISTING PANEL SERVES STATION BATTERY CHARGER, LIGHTS, RECEPTACLES, SPACE HEATERS, AND MISCELLANEOUS POWER AT SUBSTATION SS-2.

5,04 ATS SS2 PROVIDES AUTOMATIC TRANSFER OF CONTROL POWER BETWEEN UTILITY SOURCE 1 (MB-21) AND UTILITY SOURCE 2 (HV-26).

5,05 PROTECTIVE RELAY PROVIDES PHASE AND GROUND OVERCURRENT PROTECTION, BASLER TYPE BE1-51.

5,06 INTERCEPT FEEDERS AND CUT/DISCONNECT, RE-CONNECT PER FINAL CONDITIONS, REFER TO ES5,1.4. COORDINATE SHUT DOWN WITH VAPA. FEEDERS ARE CONNECTED USING A PERMANENT 3-WAY SPLICE. CUT LINE SIDE (INCOMING SERVICE) LEAVING A PIGTAIL LONG ENOUGH TO CONNECT TO NEW FEEDER USING A STRAIGHT SPLICE. REFER TO ES 5,1.4 FOR FINAL CONDITIONS.

5,07 12KV PRIMARY FEEDERS SPLICE BOX LOCATED INSIDE BUILDING MAIN ELECTRICAL ROOM.

5,08 RELOCATION OF ELECTRICAL SERVICES TO INDICATED BUILDING IS A DEDUCT ALTERNATE SCOPE OF WORK.

5,09 REMOVE EXISTING PROTECTIVE RELAY. TO BE REPLACED PER FINAL CONDITION, REFER TO ES5,1.4 FOR DETAILS. COORDINATE INSTALLATION AND POWER INTERRUPTION WITH VA RESIDENT ENGINEER.

5,10 SEE 5,1,3a FOR CHANGES TO EXISTING.

Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

Drawing Title

Approved: Project Director

Project Title

Location

Date | Checked | Drawn

Project Number

Building Number

Drawing Number

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

S:\Engineering\C4D_File\C4D_Projects_2013\VPAD\640.424.500.Polytrauma_Blind_Rehab_Center.Elec\Update for ES513one.dwg 6-11-13 02:19:00 PM vhapalmosj