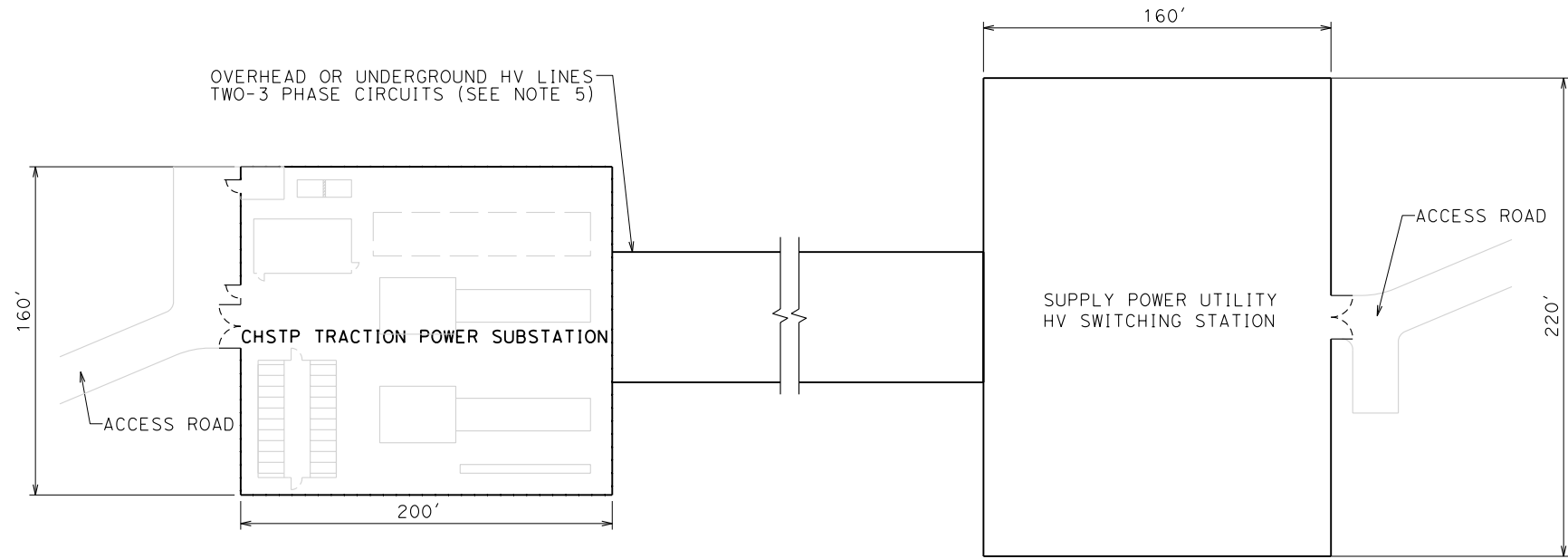


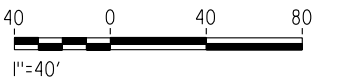
ALTERNATIVE 1: POWER UTILITY HV SWITCHING STATION LOCATED ADJACENT TO THE TRACTION POWER SUBSTATION



ALTERNATIVE 2: POWER UTILITY HV SWITCHING STATION LOCATED AWAY FROM THE TRACTION POWER SUBSTATION

**NOTES:**

1. THESE ARE TYPICAL DIMENSIONS OF THE SUPPLY POWER UTILITY HV SWITCHING STATION. THE ACTUAL REQUIREMENTS MAY VARY DEPENDING UPON SITE CONDITIONS, CONNECTION CONFIGURATION AND VOLTAGE OF THE HV SYSTEM.
2. ALTERNATIVE 1 IS THE PRFERRED OPTION.
3. ALTERNATIVE 2 MAY BE USED DEPENDING UPON THE ALIGNMENT OF THE HV LINES AND OTHER SITE SPECIFIC CONSTRAINTS.
4. THE SWITCHING STATION MAY CONTAIN CIRCUIT BREAKERS/CIRCUIT SWITCHERS, DISCONNECT SWITCHES, LV POWER SOURCE, AND COMMUNICATIONS, PROTECTION AND CONTROL EQUIPMENT.
5. THE EASEMENT REQUIRED IS 100 FEET FOR OVERHEAD HV LINES AND 40 FEET FOR UNDERGROUND HV LINES.
6. IN CASE OF ALTERNATIVE 1, ONE ACCESS ROAD MAY BE ACCEPTABLE PROVIDED THAT VEHICLE ACCESS IS MADE AVAILABLE TO BOTH THE TRACTION POWER SUBSTATION AND THE UTILITY SWITCHING STATION.



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REV	DATE	BY	CHK	APP	DESCRIPTION
B	06-11-10				
A	05-19-10				

DESIGNED BY V. SIBAL
DRAWN BY S. BURDEYNIK
CHECKED BY M. PAZ
IN CHARGE R. SCHMEDES
DATE 06-11-10



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
ALTERNATIVE CONCEPTUAL LOCATIONS OF POWER SUPPLY UTILITY HV SWITCHING STATION RELATIVE TO THE TRACTION POWER SUBSTATION

CONTRACT NO. 13259D
DRAWING NO. TM 3.1.5.3-A
SCALE 1"=40'-0"
SHEET NO. 008 OF 008