

California High-Speed Rail Authority

Merced to Fresno Section: Central Valley Wye

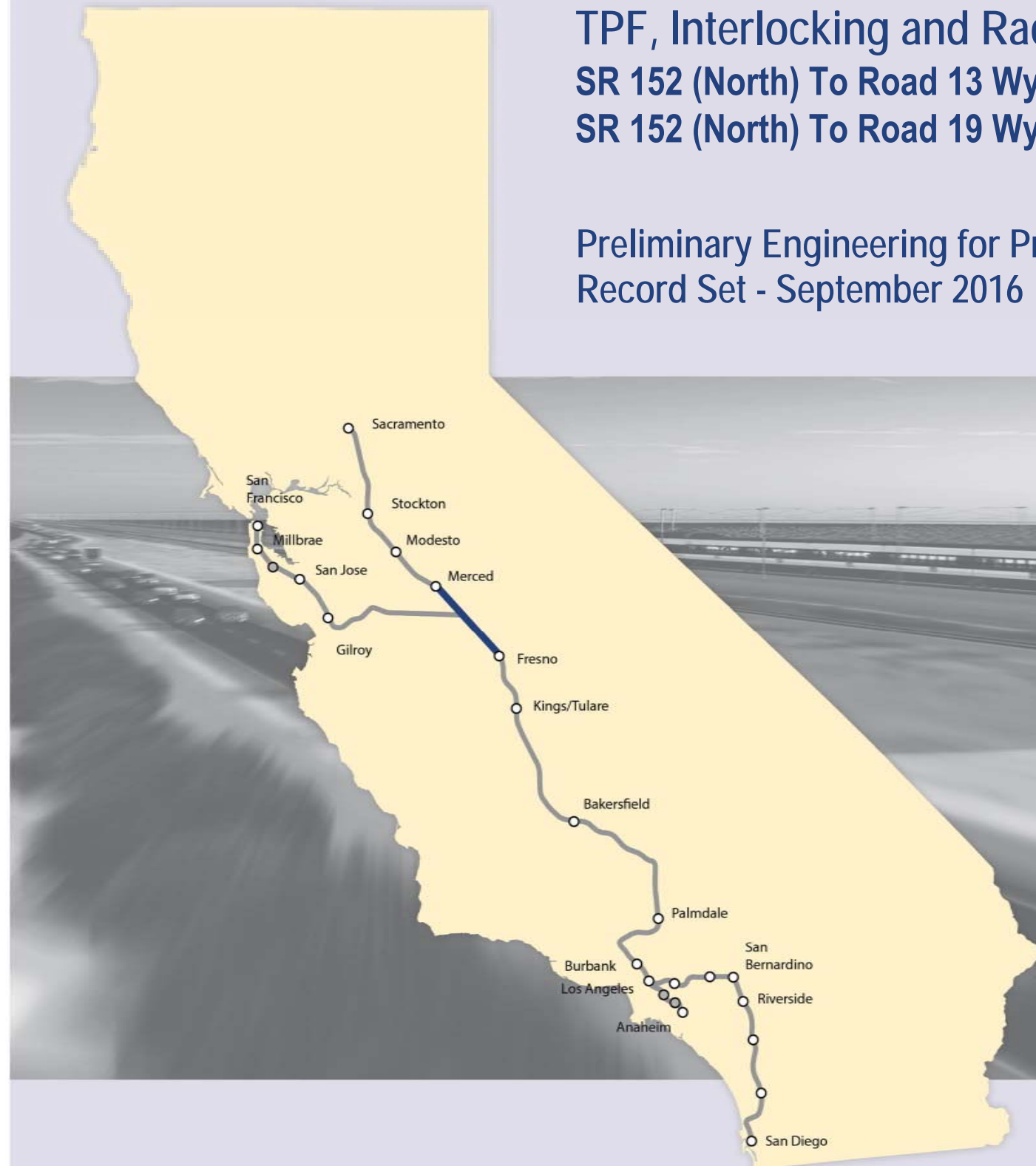
TPF, Interlocking and Radio Site Plans (Book 1 of 2)

SR 152 (North) To Road 13 Wye Alternative

SR 152 (North) To Road 19 Wye Alternative

Preliminary Engineering for Project Definition

Record Set - September 2016



p0042226 16-AUG-2016 04:22 MF-TP-B0002.dgn

| INDEX OF DRAWINGS | | | | |
|---|--------------------|---|-----------------------------------|--|
| DRAWING NO. | SECTION | ALIGNMENT / PLAN SET | TITLE | DESCRIPTION |
| GENERAL | | | | |
| TP-B0001 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | COVER | |
| TP-B0002 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | INDEX OF DRAWINGS | SHEET 1 OF 5 |
| TP-B0003 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | INDEX OF DRAWINGS | SHEET 2 OF 5 |
| TP-B0004 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | INDEX OF DRAWINGS | SHEET 3 OF 5 |
| TP-B0005 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | INDEX OF DRAWINGS | SHEET 4 OF 5 |
| TP-B0006 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | INDEX OF DRAWINGS | SHEET 5 OF 5 |
| TP-B0007 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | ABBREVIATIONS | SHEET 1 OF 2 |
| TP-B0008 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | ABBREVIATIONS | SHEET 2 OF 2 |
| TP-B4000 | CENTRAL VALLEY WYE | TPF, INTERLOCKING AND RADIO SITE PLANS | LOCATION PLAN | |
| SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | | | | |
| TP-B4001-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | SYSTEMS FACILITIES KEY PLAN | SHEET 1 OF 1 |
| TP-O1030-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION C4 ALTERNATE SITES 1 & 2 |
| TP-O1090-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SUBSTATION D (EL NIDO) ALTERNATE SITE 1 |
| TP-O1091-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SUBSTATION D (EL NIDO) ALTERNATE SITE 2 |
| TP-O1120-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D1 ALTERNATE SITES 1 & 2 |
| TP-O1160-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D2 ALTERNATE SITES 1 & 2 |
| TP-O1200-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION D ALTERNATE SITE 1 |
| TP-O1201-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION D ALTERNATE SITE 2 |
| TP-O1240-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D3 ALTERNATE SITE 1 |
| TP-O1241-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D3 ALTERNATE SITE 2 |
| TP-O1280-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D4 ALTERNATE SITES 1 & 2 |
| TP-O1320-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D5 ALTERNATE SITE 1 |
| TP-O1321-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D5 ALTERNATE SITE 2 |
| TP-O1430-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION E ALTERNATE SITES 1 & 2 |
| TP-O1480-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION E1 ALTERNATE SITE 1 |
| TP-O1490-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION E1 ALTERNATE SITE 2 |
| TP-O1520-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION E2 ALTERNATE SITE 1 |
| TP-O1530-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION E2 ALTERNATE SITE 2 |
| TP-O1630-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION F ALTERNATE SITE 1 |
| TP-O1631-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION F ALTERNATE SITE 2 |
| CO-F1010-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2 |
| CO-F1060-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2 |
| CO-F1100-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 6 ALTERNATE SITES 1 & 2 |
| CO-F1130-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 8 ALTERNATE SITE 1 |
| CO-F1140-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 8 ALTERNATE SITE 2 |
| CO-F1180-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 12 ALTERNATE SITES 1 & 2 |
| CO-F1220-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 14 ALTERNATE SITES 1 & 2 |
| CO-F1260-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 18 ALTERNATE SITE 1 |
| CO-F1261-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 18 ALTERNATE SITE 2 |
| CO-F1440-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE MF 2 ALTERNATE SITES 1 & 2 |
| CO-F1500-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE MF 5 ALTERNATE SITES 1 & 2 |
| CO-F1640-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJM 2 ALTERNATE SITES 1 & 2 |

| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

| |
|--------------------------|
| DESIGNED BY C. LEMLEY |
| DRAWN BY J. ALADIN |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
INDEX OF DRAWINGS
SHEET 1 OF 5

| |
|--------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-B0002 |
| SCALE NO SCALE |
| SHEET NO. |

p0042226 12-AUG-2016 1:36 MF-TP-B0003.dgn

| INDEX OF DRAWINGS | | | | |
|---|--------------------|---|-----------------------------------|---|
| DRAWING NO. | SECTION | ALIGNMENT / PLAN SET | TITLE | DESCRIPTION |
| TC-F1030-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D1 ALTERNATE SITE 2 |
| TC-F1050-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D1 ALTERNATE SITE 1 |
| TC-F1090-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D2 ALTERNATE SITE 1 |
| TC-F1100-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D2 ALTERNATE SITE 2 |
| TC-F1150-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6156+00 |
| TC-F1151-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE E @ 6170+00 |
| TC-F1160-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6190+00 |
| TC-F1170-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 6246+00 |
| TC-F1171-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6267+00 |
| TC-F1230-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6584+50 |
| TC-F1231-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 6603+00 |
| TC-F1240-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6666+68 & SITE E @ 6678+50 |
| TC-F1250-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6690+45 |
| TC-F1310-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2 |
| TC-F1460-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 15226+00 |
| TC-F1461-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 15247+50 |
| TC-F1510-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 15535+00 |
| TC-F1511-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE E @ 15550+50 |
| TC-F1520-A | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 15569+00 |
| SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | | | | |
| TP-B4001-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | SYSTEMS FACILITIES KEY PLAN | SHEET 1 OF 1 |
| TP-O1030-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION C4 ALTERNATE SITES 1 & 2 |
| TP-O1090-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SUBSTATION D (EL NIDO) ALTERNATE SITE 1 |
| TP-O1091-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SUBSTATION D (EL NIDO) ALTERNATE SITE 2 |
| TP-O1130-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D1 ALTERNATE SITE 1 |
| TP-O1140-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D1 ALTERNATE SITE 2 |
| TP-O1190-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D2 ALTERNATE SITES 1 & 2 |
| TP-O1250-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION D ALTERNATE SITES 1 & 2 |
| TP-O1280-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D3 ALTERNATE SITES 1 & 2 |
| TP-O1320-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D4 ALTERNATE SITES 1 & 2 |
| TP-O1420-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION E ALTERNATE SITE 1 |
| TP-O1430-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION E ALTERNATE SITE 2 |
| TP-O1470-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION E1 ALTERNATE SITES 1 & 2 |
| TP-O1510-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION E2 ALTERNATE SITES 1 & 2 |
| TP-O1540-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SUBSTATION E (SANDY MUSH) ALTERNATE SITE 1 |
| TP-O1541-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SUBSTATION E (SANDY MUSH) ALTERNATE SITE 2 |
| TP-O1630-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION F ALTERNATE SITES 1 & 2 |
| ME-S1540-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | MECHANICAL FACILITY SITE PLAN | PORTAL VENTILATION SITE @ 15443+00 |
| CO-F1010-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2 |
| CO-F1060-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2 |
| CO-F1100-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 6 ALTERNATE SITE 1 |
| CO-F1110-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 6 ALTERNATE SITE 2 |

| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

| |
|--------------------------|
| DESIGNED BY C. LEMLEY |
| DRAWN BY J. ALADIN |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
INDEX OF DRAWINGS
SHEET 2 OF 5

| |
|--------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-B0003 |
| SCALE NO SCALE |
| SHEET NO. |

p0042226 12-AUG-2016 11:36 MF-TP-B0004.dgn

| INDEX OF DRAWINGS | | | | |
|--------------------------------------|--------------------|---|-----------------------------------|---|
| DRAWING NO. | SECTION | ALIGNMENT / PLAN SET | TITLE | DESCRIPTION |
| CO-F1160-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 9 ALTERNATE SITES 1 & 2 |
| CO-F1290-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 17 ALTERNATE SITE 1 |
| CO-F1300-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 17 ALTERNATE SITE 2 |
| CO-F1520-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE MF 7 ALTERNATE SITE 1 |
| CO-F1530-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE MF 7 ALTERNATE SITE 2 |
| TC-F1030-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D1 ALTERNATE SITE 2 |
| TC-F1050-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D1 ALTERNATE SITE 1 |
| TC-F1120-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D2 ALTERNATE SITES 1 & 2 |
| TC-F1200-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6416+00 |
| TC-F1201-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE E @ 6430+00 |
| TC-F1202-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6449+00 |
| TC-F1230-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 6570+00 |
| TC-F1231-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6591+65 |
| TC-F1260-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2 |
| TC-F1270-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6846+80 |
| TC-F1280-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 6868+50 |
| TC-F1310-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 7066+00 |
| TC-F1320-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE E ALT 1 @ 7075+50 & ALT 2 @ 7079+50 |
| TC-F1321-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 7099+00 |
| TC-F1430-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D4 ALTERNATE SITE 1 |
| TC-F1431-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D4 ALTERNATE SITE 2 |
| TC-F1450-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 14958+30 |
| TC-F1451-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 14980+00 |
| TC-F1490-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 15180+00 |
| TC-F1491-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE E @ 15197+00 |
| TC-F1500-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 15221+00 |
| TC-F1560-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D5 ALTERNATE SITE 1 |
| TC-F1570-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D5 ALTERNATE SITE 2 |
| TC-F1640-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D6 ALTERNATE SITES 1 & 2 |
| AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | | | | |
| TP-B4001-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | SYSTEMS FACILITIES KEY PLAN | SHEET 1 OF 1 |
| TP-O1030-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION C4 ALTERNATE SITES 1 & 2 |
| TP-O1090-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SUBSTATION D (EL NIDO) ALTERNATE SITES 1 & 2 |
| TP-O1120-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D1 ALTERNATE SITE 1 |
| TP-O1130-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D1 ALTERNATE SITE 2 |
| TP-O1160-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D2 ALTERNATE SITE 1 |
| TP-O1161-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D2 ALTERNATE SITE 2 |
| TP-O1210-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION D ALTERNATE SITES 1 & 2 |
| TP-O1260-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D3 ALTERNATE SITE 1 |
| TP-O1261-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D3 ALTERNATE SITE 2 |
| TP-O1310-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D4 ALTERNATE SITE 1 |
| TP-O1311-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION D4 ALTERNATE SITE 2 |
| TP-O1430-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION E ALTERNATE SITE 1 |

| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

| |
|--------------------------|
| DESIGNED BY C. LEMLEY |
| DRAWN BY J. ALADIN |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |



RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
INDEX OF DRAWINGS
SHEET 3 OF 5

| |
|--------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-B0004 |
| SCALE NO SCALE |
| SHEET NO. |

| | | | | | | | | | | | |
|-----|------|----|-----|-----|-------------|--------------------------|---|---|---|--|--------------------------|
| | | | | | | DESIGNED BY K. MA | RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION |  |  | CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE TPF, INTERLOCKING AND RADIO SITE PLANS INDEX OF DRAWINGS SHEET 4 OF 5 | CONTRACT NO. HSR08-05 |
| | | | | | | DRAWN BY B. MCINNIS | | | | | DRAWING NO. TP-B0005 |
| | | | | | | CHECKED BY ECASTELINO | | | | | SCALE NO SCALE |
| | | | | | | IN CHARGE C. LEMLEY | | | | | SHEET NO. |
| | | | | | | DATE 08/12/2016 | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION | | | | | | |

p0042226 12-AUG-2016 01:06 MF-TP-B0006.dgn

| INDEX OF DRAWINGS | | | | | |
|-------------------|--------------------|---|-----------------------------------|--|--|
| DRAWING NO. | SECTION | ALIGNMENT / PLAN SET | TITLE | DESCRIPTION | |
| TP-O1510-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION E2 ALTERNATE SITE 1 | |
| TP-O1520-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | PARALLELING STATION E2 ALTERNATE SITE 2 | |
| TP-O1640-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | TRACTION POWER FACILITY SITE PLAN | SWITCHING STATION F ALTERNATE SITES 1 & 2 | |
| CO-F1010-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2 | |
| CO-F1060-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2 | |
| CO-F1110-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 7 ALTERNATE SITE 1 | |
| CO-F1111-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 7 ALTERNATE SITE 2 | |
| CO-F1160-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 11 ALTERNATE SITES 1 & 2 | |
| CO-F1200-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 13 ALTERNATE SITES 1 & 2 | |
| CO-F1250-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 17 ALTERNATE SITES 1 & 2 | |
| CO-F1310-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 20 ALTERNATE SITE 1 | |
| CO-F1311-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE SJF 20 ALTERNATE SITE 2 | |
| CO-F1460-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE MF 2 ALTERNATE SITES 1 & 2 | |
| CO-F1490-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE MF 6 ALTERNATE SITE 1 | |
| CO-F1500-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | COMMUNICATIONS SYSTEM SITE PLAN | STANDALONE RADIO SITE MF 6 ALTERNATE SITE 2 | |
| TC-F1030-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D1 ALTERNATE SITE 2 | |
| TC-F1050-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D1 ALTERNATE SITE 1 | |
| TC-F1090-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D2 ALTERNATE SITES 1 & 2 | |
| TC-F1140-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6083+15 | |
| TC-F1141-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE E @ 6099+00 | |
| TC-F1142-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6114+14 | |
| TC-F1150-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 6128+15 | |
| TC-F1151-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6156+00 | |
| TC-F1200-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6455+00 | |
| TC-F1210-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 6477+00 | |
| TC-F1211-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6494+00 & SITE E @ 6503+00 | |
| TC-F1220-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 6524+00 | |
| TC-F1280-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2 | |
| TC-F1460-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 15294+00 | |
| TC-F1461-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE AA @ 15317+00 | |
| TC-F1470-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 15344+15 | |
| TC-F1471-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE E @ 15360+00 | |
| TC-F1472-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | INTERLOCKING SITE B @ 15374+15 | |
| TC-F1520-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | AUTOMATIC TRAIN CONTROL SITE PLAN | TRAIN CONTROL SITE D4 ALTERNATE SITES 1 & 2 | |

| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

| |
|--------------------------|
| DESIGNED BY K. MA |
| DRAWN BY B. MCINNIS |
| CHECKED BY ECASTELINO |
| IN CHARGE C. LEMLEY |
| DATE 08/12/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
INDEX OF DRAWINGS
SHEET 5 OF 5

| |
|--------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-B0006 |
| SCALE NO SCALE |
| SHEET NO. |



p005133g MF-TP-B0007.dgn 15-AUG-2016 7:49

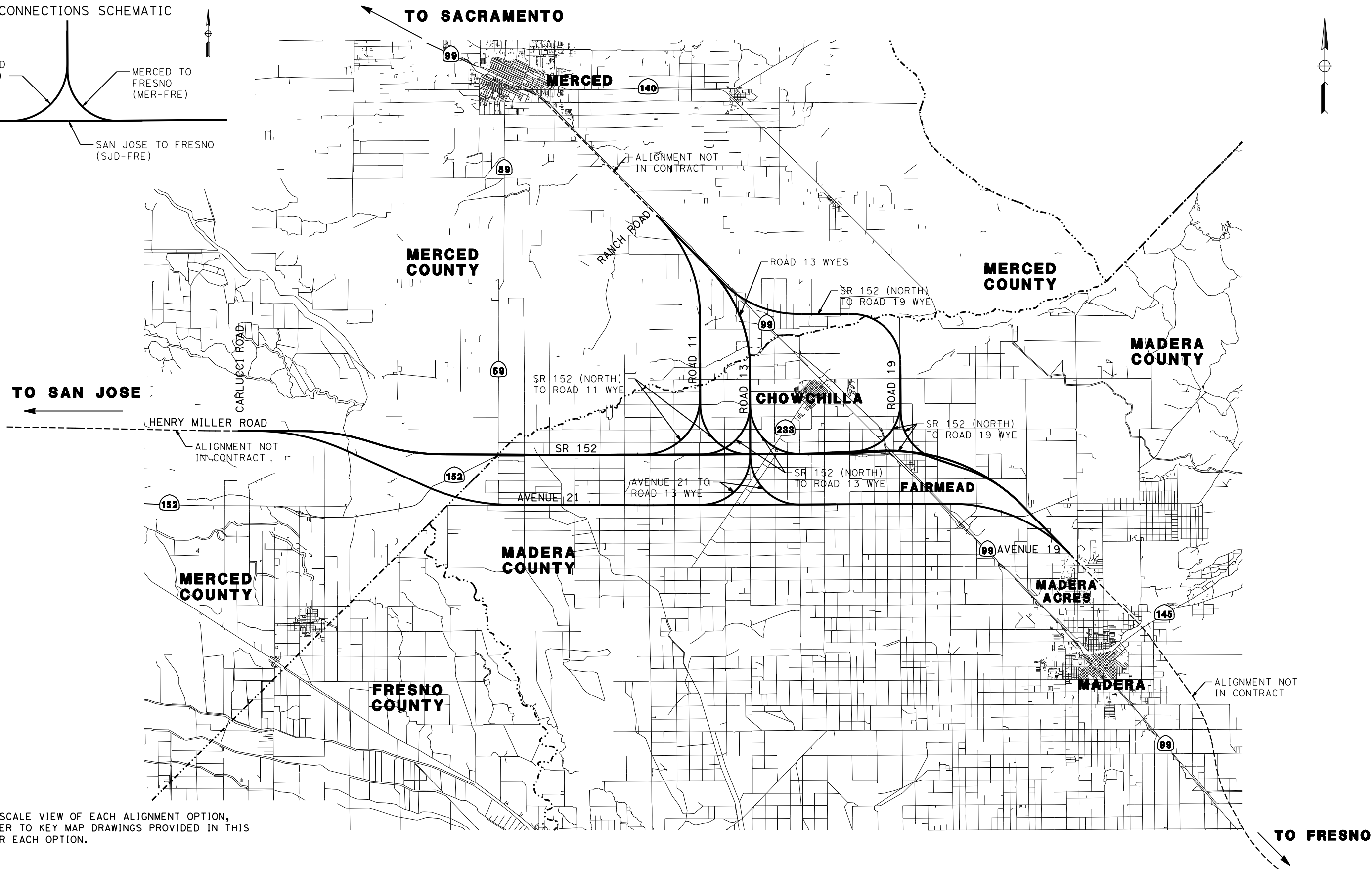
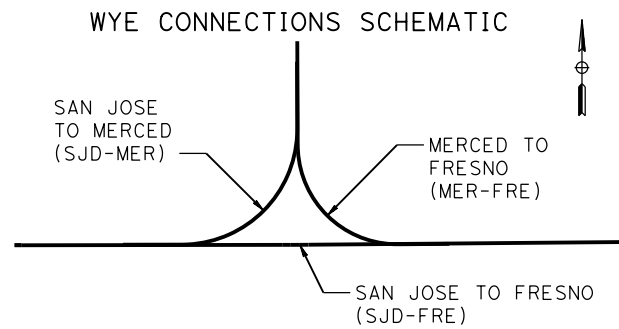
| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--------------------------------------|-------|---|------------|------------------------------|--------|--|------------|-------------------------------|-------------|--|--|--|--|-------------|--|--|--|--|-------------|--|--|--|--|
| A | | | | | C | | | | | D CONTINUED | | | | | F CONTINUED | | | | | J CONTINUED | | | | |
| AB | AGGREGATE BASE | CAA | CABLE ANCHOR ASSEMBLY | DET | DETAIL, DETOUR | FNTB | FACING NORTHBOUND TRAFFIC | JS | JUNCTION STRUCTURE | | | | | | | | | | | | | | | |
| ABBC | ASBESTOS BONDED BITUMINOUS COATED | CAP | CORRUGATED ALUMINUM PIPE | DF | DOUGLAS FIR, DIRECT FIXATION | FOB | FREE ON BOARD | JT | JOINT | | | | | | | | | | | | | | | |
| ABM | AIR-BLOWN MORTAR | CAPA | CORRUGATED ALUMINUM PIPE ARCH | DI | DRAINAGE INLET, DROP INLET | FOC | FACE OF CONCRETE | | | | | | | | | | | | | | | | | |
| ABN | ABANDON | CAS | CONSTRUCTION AREA SIGN | DIA | DIAMETER | FR RD | FRONTAGE ROAD | | | | | | | | | | | | | | | | | |
| ABUT | ABUTMENT | CB | CONCRETE BARRIER | DIAPH | DIAPHRAGM | FRE | FRESNO | L | LENGTH | | | | | | | | | | | | | | | |
| AC | ASPHALT CONCRETE | CBW | CONCRETE BLOCK WALL | DIST | DISTANCE, DISTRICT | FS | FAR SIDE, FINISHED SURFACE | LAT | LATITUDE | | | | | | | | | | | | | | | |
| ACB | ASPHALT CONCRETE BASE | C-C | CENTER TO CENTER | DMBB | DOUBLE METAL BEAM BARRIER | FSBT | FACING SOUTHBOUND TRAFFIC | LCB | LEAN CONCRETE BASE | | | | | | | | | | | | | | | |
| ACP | ASBESTOS CEMENT PIPE | CHSRA | CALIFORNIA HIGH-SPEED RAIL | DR | DRIVE | FTG | FOOTING | LLT | LAST LONG TIE | | | | | | | | | | | | | | | |
| ADL | ADDED DEAD LOAD | | AUTHORITY (SEE AUTHORITY) | DTBB | DOUBLE THRIE BEAM BARRIER | FWBT | FACING WESTBOUND TRAFFIC | LN | LANE | | | | | | | | | | | | | | | |
| ADJ | ADJUST | CHSR | CALIFORNIA HIGH-SPEED RAIL | DWY | DRIVEWAY | FWY | FREEWAY | LOC | LOCATION | | | | | | | | | | | | | | | |
| AFES | ALTERNATIVE FLARED END SECTION | CHST | CALIFORNIA HIGH-SPEED TRAIN | | | | | LOL | LAYOUT LINE | | | | | | | | | | | | | | | |
| AHD | AHEAD | CG | CENTER OF GRAVITY | | | | | LONG | LONGITUDE | | | | | | | | | | | | | | | |
| ALT | ALTERNATE | CHNL | CHANNEL | E | EAST | G | GRADE, ACCELERATION DUE TO GRAVITY | LONGIT | LONGITUDINAL | | | | | | | | | | | | | | | |
| AM | TIME FROM MIDNIGHT TO NOON | CI | CAST IRON | EA | ACTUAL SUPERELEVATION | | | LS | LUMP SUM, LENGTH OF SPIRAL | | | | | | | | | | | | | | | |
| AP | ALTERNATIVE PIPE | CIDH | CAST-IN-DRILLED-HOLE | EASE | EASEMENT | GA | GAGE | LT | LEFT | | | | | | | | | | | | | | | |
| APC | ALTERNATIVE PIPE CULVERT | CIP | CAST-IN-PLACE, CAST IRON PIPE | EB | END OF BRIDGE, EASTBOUND | GALV | GALVANIZED | LVC | LENGTH OF VERTICAL CURVE | | | | | | | | | | | | | | | |
| APPROX | APPROXIMATE | CIPCP | CAST-IN-PLACE CONCRETE PIPE | EC | END HORIZONTAL CURVE | GP | GRADING PLANE | | | | | | | | | | | | | | | | | |
| APU | ALTERNATIVE PIPE UNDERDRAIN | CISS | CAST-IN-STEEL SHELL | ECR | END CURB RETURN | GR | GUARD RAILING | | | | | | | | | | | | | | | | | |
| AR | ACCESS RESTRICTION | CJP | COMPLETE JOINT PENETRATION | ED | EDGE DRAIN | GRDR | GIRDER | | | | | | | | | | | | | | | | | |
| ARS | ACCELERATION RESPONSE SPECTRUM | CL | CHAIN LINK, CLASS | EDC | EDGE DRAIN CLEANOUT | GSP | GALVANIZED STEEL PIPE | MAINT | MAINTENANCE | | | | | | | | | | | | | | | |
| AS | AGGREGATE SUBBASE | CL-6 | CHAIN LINK FENCE (6 FT) | EDO | EDGE DRAIN OUTLET | GTR | GUTTER | MAX | MAXIMUM | | | | | | | | | | | | | | | |
| ASRP | ALUMINUM SPIRAL RIB PIPE | CLR | CLEAR, CLEARANCE | EDV | EDGE DRAIN VENT | | | MB | METAL BEAM | | | | | | | | | | | | | | | |
| ASSY | ASSEMBLY | CM | CORRUGATED METAL | ELEC | ELECTROLIER | | | MBB | METAL BEAM BARRIER | | | | | | | | | | | | | | | |
| ATC | AUTOMATIC TRAIN CONTROL | CMP | CORRUGATED METAL PIPE | ELECT | ELECTRIC | H | HEIGHT | MBGR | METAL BEAM GUARD RAILING | | | | | | | | | | | | | | | |
| ATPB | ASPHALT TREATED PERMEABLE BASE | CO | COUNTY | ELEV | ELEVATION | H, HR | HOUR | MED | MEDIAN | | | | | | | | | | | | | | | |
| ATPM | ASPHALT TREATED PERMEABLE MATERIAL | COL | COLUMN | EMB | EMBANKMENT | HD | HORIZONTAL DRAIN | MER | MERCED | | | | | | | | | | | | | | | |
| AUTHORITY | CALIFORNIA HIGH-SPEED RAIL AUTHORITY | CONC | CONCRETE | ENGR | ENGINEER | HDWL | HEADWALL | MF | MERCED TO FRESNO | | | | | | | | | | | | | | | |
| AVE | AVENUE | COND | CONDUIT | EOD | EDGE OF DECK | HEX HD | HEXAGONAL HEAD | MH | MANHOLE | | | | | | | | | | | | | | | |
| AVG | AVERAGE | CONN | CONNECTOR | EP | EDGE OF PAVEMENT | HMA | HOT MIXED ASPHALT | MIN | MINIMUM | | | | | | | | | | | | | | | |
| @ | AT | CONST | CONSTRUCT, CONSTRUCTION | EQ | EQUATION | HORIZ | HORIZONTAL | MISC | MISCELLANEOUS | | | | | | | | | | | | | | | |
| | | CONT | CONTINUOUS | ES | EDGE OF SHOULDER | HP | HINGE POINT, HORSEPOWER | MISC I & S | MISCELLANEOUS IRON AND STEEL | | | | | | | | | | | | | | | |
| | | COORD | COORDINATE | ET | END TUNNEL | HPS | HIGH PERFORMANCE STEEL | MKR | MARKER | | | | | | | | | | | | | | | |
| BAGR | BRIDGE APPROACH GUARD RAILING | CP | CANDLEPOWER | ETW | EDGE OF TRAVELED WAY | HS | HIGH STRENGTH | MOD | MODIFIED, MODIFY | | | | | | | | | | | | | | | |
| BB | BEGINNING OF BRIDGE | CP1 | CONSTRUCTION PACKAGE 1 | EU | UNBALANCED SUPERELEVATION | HSR | HIGH-SPEED RAIL | MON | MONUMENT | | | | | | | | | | | | | | | |
| B-B | BACK-TO-BACK | CR | CREEK | EVC | END VERTICAL CURVE | HST | HIGH-SPEED TRAIN | MOW | MAINTENANCE-OF-WAY FACILITY | | | | | | | | | | | | | | | |
| BC | BEGIN HORIZONTAL CURVE | CRCP | CONTINUOUS REINFORCED CONCRETE PAVEMENT | EW | ENDWALL | HW | HEADWALL, 100-YR HIGH WATER (UNLESS NOTED OTHERWISE) | MP | METAL PLATE | | | | | | | | | | | | | | | |
| BCR | BEGIN CURB RETURN | CRSP | CONCRETED ROCK SLOPE PROTECTION | EXC | EXCAVATION | | | MPGR | METAL PLATE GUARD RAILING | | | | | | | | | | | | | | | |
| BEG | BEGIN | CRZ | CLEAR RECOVERY ZONE | EXIST, (E) | EXISTING | | | MPH | MILES PER HOUR | | | | | | | | | | | | | | | |
| BIT CTD | BITUMINOUS COATED | CS | CURVE SPIRAL POINT | EXP | EXPANSION, EXPRESSWAY | | | MR | MOVEMENT RATING | | | | | | | | | | | | | | | |
| BK | BACK | CSP | CORRUGATED STEEL PIPE | EXP JT | EXPANSION JOINT | HWM | HIGH WATER MARK | MSE | MECHANICALLY STABILIZED EARTH | | | | | | | | | | | | | | | |
| BKF | BACKFILL | CSPA | CORRUGATED STEEL PIPE ARCH | EXT | EXTERIOR | HWY | HIGHWAY | MTL | MATERIAL | | | | | | | | | | | | | | | |
| BLDG | BUILDING | CTB | CEMENT TREATED BASE | | | | | | | | | | | | | | | | | | | | | |
| BLM | BRIDGE-LOG MILE | CTPB | CEMENT TREATED PERMEABLE BASE | | | | | | | | | | | | | | | | | | | | | |
| BLVD | BOULEVARD | CTPM | CEMENT TREATED PERMEABLE MATERIAL | | | | | | | | | | | | | | | | | | | | | |
| BM | BENCH MARK | CTRS | CENTERS | F & C | FRAME AND COVER | IB | IMPORTED BORROW | N | NORTH | | | | | | | | | | | | | | | |
| BOT | BOTTOM | CULV | CULVERT | F & G | FRAME AND GRATE | ID | INSIDE DIAMETER | NB | NORTHBOUND | | | | | | | | | | | | | | | |
| BNSF | BNSF RAILWAY | ℄ | CENTERLINE | FB | FLOOR BEAM | IF | INSIDE FACE | NC | NORMAL CROWN | | | | | | | | | | | | | | | |
| BR | BRIDGE | | | FDN | FOUNDATION | INT | INTERIOR | NIC | NOT IN CONTRACT | | | | | | | | | | | | | | | |
| BRG | BEARING | | | FEBT | FACING EASTBOUND TRAFFIC | INV | INVERT | NO. | NUMBER (MUST HAVE PERIOD) | | | | | | | | | | | | | | | |
| BT | BEGIN TUNNEL | | | FES | FLARED END SECTION | IRR | IRRIGATION | NOS. | NUMBERS (MUST HAVE PERIOD) | | | | | | | | | | | | | | | |
| BTU | BRITISH THERMAL UNIT | | | FF | FILTER FABRIC | IS | INTERLOCKING SITE | NPS | NOMINAL PIPE SIZE | | | | | | | | | | | | | | | |
| BVC | BEGIN VERTICAL CURVE | DD | DOWNDRAIN | FG | FINISHED GRADE | | | NS | NEAR SIDE | | | | | | | | | | | | | | | |
| BW | BARBED WIRE | DBL | DOUBLE | FH | FIRE HYDRANT | JCT | JUNCTION | NTS | NOT TO SCALE | | | | | | | | | | | | | | | |
| | | DEG | DEGREE | FIG | FIGURE | JP | JOINT POLE | | | | | | | | | | | | | | | | | |
| | | DEL | DELINEATOR | FL | FLOW LINE | JPCP | JOINTED PLAIN CONCRETE PAVEMENT | OBLR | OBLITERATE | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----|------|----|-----|-----|-------------|--------------------------|---------------------------------------|-------------------------|---|---|--|--------------------------|
| | | | | | | DESIGNED BY C. LEMLEY | RECORD SET 15% DESIGN SUBMITTAL | NOT FOR CONSTRUCTION |  |  | CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE TPF, INTERLOCKING AND RADIO SITE PLANS ABBREVIATIONS SHEET 1 OF 2 | CONTRACT NO. HSR08-05 |
| | | | | | | DRAWN BY J. KIDWELL | | | | | | DRAWING NO. TP-B0007 |
| | | | | | | CHECKED BY A. M. | | | | | | SCALE NO SCALE |
| | | | | | | IN CHARGE C. LEMLEY | | | | | | SHEET NO. |
| REV | DATE | BY | CHK | APP | DESCRIPTION | DATE 08/12/2016 | | | | | | |

15-AUG-2016 01:27 MF-TP-B0008.dgn

| O CONTINUED | | | | | | P CONTINUED | | | | | | S CONTINUED | | | | | | T CONTINUED | | | | | |
|-------------|-------------------------------------|--|--|--|--|-------------|----------------------------------|--|--|--|--|-------------|----------------------------------|--|--|--|--|-------------|-------------------------------------|--|--|--|--|
| OC | OVERCROSSING | | | | | PVI | POINT OF VERTICAL INTERSECTION | | | | | SJM | SAN JOSE TO MERCED | | | | | TS | TRANSVERSE, TRAFFIC SIGNAL, | | | | |
| OCS | OVERHEAD CONTACT SYSTEM | | | | | PVMT | PAVEMENT | | | | | SJV | SAN JOAQUIN VALLEY | | | | | | TUBULAR STEEL, TANGENT SPIRAL POINT | | | | |
| OD | OUTSIDE DIAMETER | | | | | PVT | POINT OF VERTICAL TANGENT | | | | | S | STATION LINE | | | | | TYP | TYPICAL | | | | |
| OF | OUTSIDE FACE | | | | | | | | | | | SM | SELECTED MATERIAL | | | | | | | | | | |
| OG | ORIGINAL GROUND | | | | | | | | | | | SPEC | SPECIAL, SPECIFICATIONS | | | | | | | | | | |
| OGAC | OPEN GRADED ASPHALT CONCRETE | | | | | QTY | QUANTITY | | | | | SPP | SLOTTED PLASTIC PIPE | | | | | UC | UNDERCROSSING | | | | |
| OH | OVERHEAD | | | | | | | | | | | SR | STATE ROUTE | | | | | UD | UNDERDRAIN | | | | |
| O-O | OUT TO OUT | | | | | | | | | | | SRS | STANDALONE RADIO SITE | | | | | UON | UNLESS OTHERWISE NOTED | | | | |
| OPP | OPPOSITE | | | | | R | RADIUS | | | | | SS | SLOPE STAKE, SUBSTATION | | | | | UP | UNDERPASS | | | | |
| | | | | | | R & D | REMOVE AND DISPOSE | | | | | SSBM | STRAP AND SADDLE BRACKET METHOD | | | | | UPRR | UNION PACIFIC RAILROAD | | | | |
| | | | | | | R & S | REMOVE AND SALVAGE | | | | | SSD | STRUCTURAL SECTION DRAIN | | | | | UXO | UNIVERSAL CROSSOVER | | | | |
| P | PAGE | | | | | R/C | RATE OF CHANGE | | | | | SSPA | STRUCTURAL STEEL PLATE ARCH | | | | | | | | | | |
| PAP | PERFORATED ALUMINUM PIPE | | | | | RCA | REINFORCED CONCRETE ARCH | | | | | SSPP | STRUCTURAL STEEL PLATE PIPE | | | | | | | | | | |
| PB | PULL BOX, PHASE BREAK | | | | | RCB | REINFORCED CONCRETE BOX | | | | | SSPPA | STRUCTURAL STEEL PLATE PIPE ARCH | | | | | V | DESIGN SPEED, VALVE | | | | |
| PC | POINT OF CURVATURE, PRECAST | | | | | RCP | REINFORCED CONCRETE PIPE | | | | | SSRP | STEEL SPIRAL RIB PIPE | | | | | VAR | VARIABLE | | | | |
| PCC | POINT OF COMPOUND CURVE, | | | | | RCPA | REINFORCED CONCRETE PIPE ARCH | | | | | ST | STREET, SPIRAL TANGENT POINT | | | | | VC | VERTICAL CURVE | | | | |
| | PORTLAND CEMENT CONCRETE | | | | | RD | ROAD | | | | | STA | STATION | | | | | VCP | VITRIFIED CLAY PIPE | | | | |
| PCP | PERFORATED CONCRETE PIPE, | | | | | REINF | REINFORCED, REINFORCEMENT, | | | | | STBB | SINGLE THRIE BEAM BARRIER | | | | | VERT | VERTICAL | | | | |
| | PRESTRESSED CONCRETE PIPE | | | | | | REINFORCING | | | | | STD | STANDARD | | | | | VIA | VIADUCT | | | | |
| PCVC | POINT OF COMPOUND VERTICAL CURVE | | | | | REL | RELOCATE | | | | | STR | STRUCTURE | | | | | VOL | VOLUME | | | | |
| PED | PEDESTRIAN | | | | | REPL | REPLACEMENT | | | | | SURF | SURFACING | | | | | | | | | | |
| PED OC | PEDESTRIAN OVERCROSSING | | | | | RET | RETAINING | | | | | SW | SIDEWALK, SOUND WALL | | | | | | | | | | |
| PED UC | PEDESTRIAN UNDERCROSSING | | | | | REV | REVISED | | | | | SWR | SEWER | | | | | W | WEST, WIDTH | | | | |
| PERM MTL | PERMEABLE MATERIAL | | | | | RDWY | ROADWAY | | | | | SWS | SWITCHING STATION | | | | | WB | WESTBOUND | | | | |
| PG | PROFILE GRADE | | | | | RM | ROAD-MIXED | | | | | SYM | SYMMETRICAL | | | | | WCB | WORLD COORDINATE BEARING | | | | |
| PG&E | PACIFIC GAS AND ELECTRIC | | | | | RP | RADIUS POINT, | | | | | S4S | SURFACE 4 SIDES | | | | | WH | WEEP HOLE | | | | |
| PI | POINT OF INTERSECTION | | | | | | REFERENCE POINT | | | | | | | | | | | WM | WIRE MESH | | | | |
| PITO | POINT OF INTERSECTION TURNOUT | | | | | RR | RAILROAD | | | | | | | | | | | WS | WATER SURFACE | | | | |
| PJP | PARTIAL JOINT PENETRATION | | | | | RSP | ROCK SLOPE PROTECTION | | | | | T | SEMI-TANGENT | | | | | WSP | WELDED STEEL PIPE | | | | |
| PL, PL | PLATE | | | | | RT | RIGHT | | | | | TAB | TABLET | | | | | WT | WEIGHT | | | | |
| P/L | PROPERTY LINE | | | | | RTE | ROUTE | | | | | TAN | TANGENT | | | | | WV | WATER VALVE | | | | |
| PM | POST MILE, | | | | | RW | REDWOOD, | | | | | TBB | THRIE BEAM BARRIER | | | | | WW | WINGWALL | | | | |
| | TIME FROM NOON TO MIDNIGHT | | | | | | RETAINING WALL | | | | | TBD | TO BE DETERMINED | | | | | WWLOL | WINGWALL LAYOUT LINE | | | | |
| PN | PAVING NOTCH | | | | | R/W | RIGHT-OF-WAY | | | | | TBR | TIMBER | | | | | | | | | | |
| POB | POINT OF BEGINNING | | | | | RWY | RAILWAY | | | | | TC | TOP OF CURB, TRAIN CONTROL | | | | | | | | | | |
| POC | POINT OF HORIZONTAL CURVE | | | | | | | | | | | TCB | TRAFFIC CONTROL BOX | | | | | X SEC | CROSS SECTION | | | | |
| POE | POINT OF END | | | | | | | | | | | TCE | TEMPORARY CONSTRUCTION EASEMENT | | | | | XING | CROSSING | | | | |
| POT | POINT OF TANGENT | | | | | S | SOUTH, SUPPLEMENT | | | | | TEL | TELEPHONE | | | | | XO | CROSSOVER | | | | |
| POVC | POINT OF VERTICAL CURVE | | | | | SAE | STRUCTURE APPROACH EMBANKMENT | | | | | TEMP | TEMPORARY | | | | | | | | | | |
| PP | PIPE PILE, PLASTIC PIPE, | | | | | SALV | SALVAGE | | | | | TG | TOP OF GRADE | | | | | | | | | | |
| | POWER POLE | | | | | SAPP | STRUCTURAL ALUMINUM PLATE PIPE | | | | | TM | TECHNICAL MEMORANDUM | | | | | YR | YEAR | | | | |
| PPL | PREFORMED PERMEABLE LINER | | | | | SB | SOUTHBOUND | | | | | TO | TURNOUT | | | | | YRS | YEARS | | | | |
| PPP | PERFORATED PLASTIC PIPE | | | | | SC | SAND CUSHION, SPIRAL CURVE POINT | | | | | TOT | TOTAL | | | | | | | | | | |
| PRC | POINT OF REVERSE CURVE | | | | | SCSP | SLOTTED CORRUGATED STEEL PIPE | | | | | TP | TELEPHONE POLE | | | | | | | | | | |
| PRF | PAVEMENT REINFORCING FABRIC | | | | | SD | STORM DRAIN | | | | | TPB | TREATED PERMEABLE BASE | | | | | | | | | | |
| PRVC | POINT OF REVERSE VERTICAL CURVE | | | | | SEC | SECOND, SECTION | | | | | TPF | TRACTION POWER FACILITY | | | | | | | | | | |
| PS&E | PLANS, SPECIFICATIONS AND ESTIMATES | | | | | SEP | SEPARATION | | | | | TPM | TREATED PERMEABLE MATERIAL | | | | | | | | | | |
| PS, P/S | POINT OF SWITCH, PRESTRESSED, | | | | | SG | SUBGRADE | | | | | TPSS | TRACTION POWER SUBSTATION | | | | | | | | | | |
| | PARALLELING STATION | | | | | SHLD | SHOULDER | | | | | T/R | TOP OF RAIL | | | | | | | | | | |
| PSP | PERFORATED STEEL PIPE | | | | | SHT | SHEET | | | | | TRANS | TRANSITION | | | | | | | | | | |
| PT | POINT OF TANGENCY | | | | | SIM | SIMILAR | | | | | TRK | TRACK | | | | | | | | | | |
| PVC | POLYVINYL CHLORIDE, | | | | | SJD | SAN JOSE DIRIDON STATION | | | | | | | | | | | | | | | | |
| | POINT OF VERTICAL CURVE | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|------|----|-----|-----|-------------|--------------------------|--|---|---|--|--------------------------|
| | | | | | | DESIGNED BY C. LEMLEY | RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION |  |  | CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE TPF, INTERLOCKING AND RADIO SITE PLANS ABBREVIATIONS SHEET 2 OF 2 | CONTRACT NO. HSR08-05 |
| | | | | | | DRAWN BY J. KIDWELL | | | | | DRAWING NO. TP-B0008 |
| | | | | | | CHECKED BY A. M. | | | | | SCALE NO SCALE |
| | | | | | | IN CHARGE C. LEMLEY | | | | | SHEET NO. |
| REV | DATE | BY | CHK | APP | DESCRIPTION | DATE 08/12/2016 | | | | | |



NOTE:
FOR LARGE SCALE VIEW OF EACH ALIGNMENT OPTION,
PLEASE REFER TO KEY MAP DRAWINGS PROVIDED IN THIS
PACKAGE FOR EACH OPTION.

DESIGNED BY
C. LEMLEY
DRAWN BY
J. KIDWELL
CHECKED BY
A. M.
IN CHARGE
C. LEMLEY
DATE
08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



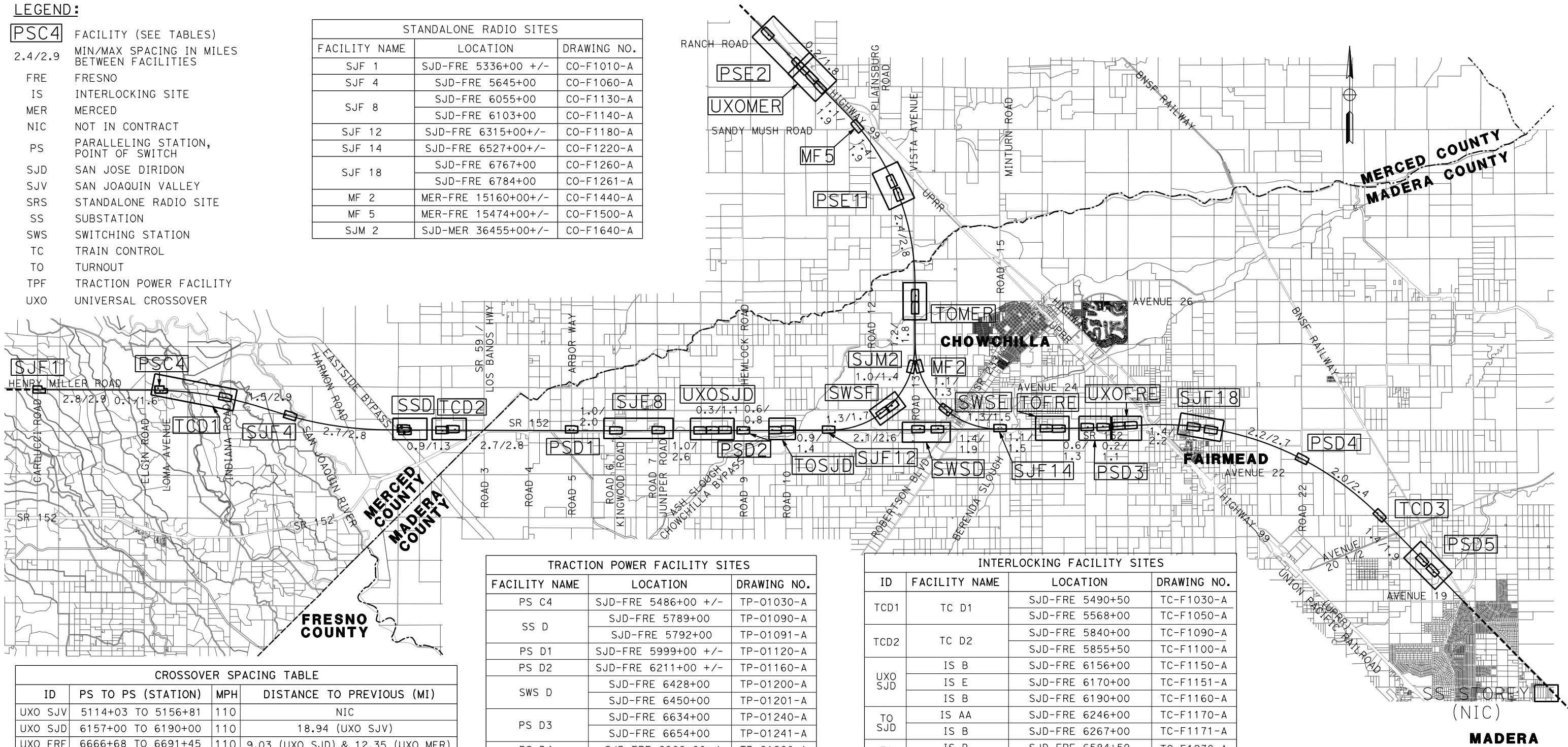
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
LOCATION PLAN

CONTRACT NO.
HSR08-05
DRAWING NO.
TP-B4000
SCALE
NTS
SHEET NO.

LEGEND:

| | |
|---------|---|
| PSC4 | FACILITY (SEE TABLES) |
| 2.4/2.9 | MIN/MAX SPACING IN MILES BETWEEN FACILITIES |
| FRE | FRESNO |
| IS | INTERLOCKING SITE |
| MER | MERCED |
| NIC | NOT IN CONTRACT |
| PS | PARALLELING STATION, POINT OF SWITCH |
| SJD | SAN JOSE DIRIDON |
| SJV | SAN JOAQUIN VALLEY |
| SRS | STANDALONE RADIO SITE |
| SS | SUBSTATION |
| SWS | SWITCHING STATION |
| TC | TRAIN CONTROL |
| TO | TURNOUT |
| TPF | TRACTION POWER FACILITY |
| UXO | UNIVERSAL CROSSOVER |

| STANDALONE RADIO SITES | | |
|------------------------|---------------------|-------------|
| FACILITY NAME | LOCATION | DRAWING NO. |
| SJF 1 | SJD-FRE 5336+00 +/- | CO-F1010-A |
| SJF 4 | SJD-FRE 5645+00 | CO-F1060-A |
| SJF 8 | SJD-FRE 6055+00 | CO-F1130-A |
| | SJD-FRE 6103+00 | CO-F1140-A |
| SJF 12 | SJD-FRE 6315+00+/- | CO-F1180-A |
| SJF 14 | SJD-FRE 6527+00+/- | CO-F1220-A |
| SJF 18 | SJD-FRE 6767+00 | CO-F1260-A |
| | SJD-FRE 6784+00 | CO-F1261-A |
| MF 2 | MER-FRE 15160+00+/- | CO-F1440-A |
| MF 5 | MER-FRE 15474+00+/- | CO-F1500-A |
| SJM 2 | SJD-MER 36455+00+/- | CO-F1640-A |

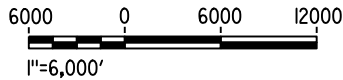


| CROSSOVER SPACING TABLE | | | |
|-------------------------|----------------------|-----|-----------------------------------|
| ID | PS TO PS (STATION) | MPH | DISTANCE TO PREVIOUS (MI) |
| UXO SJV | 5114+03 TO 5156+81 | 110 | NIC |
| UXO SJD | 6157+00 TO 6190+00 | 110 | 18.94 (UXO SJV) |
| UXO FRE | 6666+68 TO 6691+45 | 110 | 9.03 (UXO SJD) & 12.35 (UXO MER) |
| UXO MER | 15535+29 TO 15569+00 | 110 | 12.13 (UXO SJD) & 12.35 (UXO FRE) |

| TURNOUT SPACING TABLE | | | |
|-----------------------|------------------|-----|---------------------------------|
| ID | PS (STATION) | MPH | DISTANCE TO NEAREST XO/UXO (MI) |
| TO SJD | SJD-FRE 6246+00 | 150 | 1.06 (UXO SJD) |
| TO FRE | SJD-FRE 6603+00 | 150 | 1.21 (UXO FRE) |
| TO MER | MER-FRE 15247+44 | 150 | 5.45 (UXO MER) |

| TRACTION POWER FACILITY SITES | | |
|-------------------------------|---------------------|-------------|
| FACILITY NAME | LOCATION | DRAWING NO. |
| PS C4 | SJD-FRE 5486+00 +/- | TP-01030-A |
| SS D | SJD-FRE 5789+00 | TP-01090-A |
| | SJD-FRE 5792+00 | TP-01091-A |
| PS D1 | SJD-FRE 5999+00 +/- | TP-01120-A |
| PS D2 | SJD-FRE 6211+00 +/- | TP-01160-A |
| SWS D | SJD-FRE 6428+00 | TP-01200-A |
| | SJD-FRE 6450+00 | TP-01201-A |
| PS D3 | SJD-FRE 6634+00 | TP-01240-A |
| | SJD-FRE 6654+00 | TP-01241-A |
| PS D4 | SJD-FRE 6906+00+/- | TP-01280-A |
| | SJD-FRE 7102+00 | TP-01320-A |
| PS D5 | SJD-FRE 7120+00 | TP-01321-A |
| | SJD-FRE 7120+00 | TP-01321-A |
| SWS E | MER-FRE 15096+00+/- | TP-01430-A |
| PS E1 | MER-FRE 15376+50 | TP-01480-A |
| | MER-FRE 15394+00 | TP-01490-A |
| PS E2 | MER-FRE 15580+00 | TP-01520-A |
| | MER-FRE 15630+00 | TP-01530-A |
| SWS F | SJD-MER 36384+00 | TP-01630-A |
| | SJD-MER 36401+00 | TP-01631-A |

| INTERLOCKING FACILITY SITES | | | |
|-----------------------------|---------------|---------------------|-------------|
| ID | FACILITY NAME | LOCATION | DRAWING NO. |
| TCD1 | TC D1 | SJD-FRE 5490+50 | TC-F1030-A |
| | | SJD-FRE 5568+00 | TC-F1050-A |
| TCD2 | TC D2 | SJD-FRE 5840+00 | TC-F1090-A |
| | | SJD-FRE 5855+50 | TC-F1100-A |
| UXO SJD | IS B | SJD-FRE 6156+00 | TC-F1150-A |
| | IS E | SJD-FRE 6170+00 | TC-F1151-A |
| | IS B | SJD-FRE 6190+00 | TC-F1160-A |
| TO SJD | IS AA | SJD-FRE 6246+00 | TC-F1170-A |
| | IS B | SJD-FRE 6267+00 | TC-F1171-A |
| TO FRE | IS B | SJD-FRE 6584+50 | TC-F1230-A |
| | IS AA | SJD-FRE 6603+00 | TC-F1231-A |
| UXO FRE | IS B | SJD-FRE 6666+68 | TC-F1240-A |
| | IS E | SJD-FRE 6678+50 | TC-F1250-A |
| | IS B | SJD-FRE 6690+45 | TC-F1250-A |
| TCD3 | TC D3 | SJD-FRE 7024+00 +/- | TC-F1310-A |
| TO MER | IS B | MER-FRE 15226+00 | TC-F1460-A |
| | IS AA | MER-FRE 15247+50 | TC-F1461-A |
| UXO MER | IS B | MER-FRE 15535+00 | TC-F1510-A |
| | IS E | MER-FRE 15550+50 | TC-F1511-A |
| | IS B | MER-FRE 15569+00 | TC-F1520-A |



31-AUG-2016 5:21 MF-TP-B4001-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



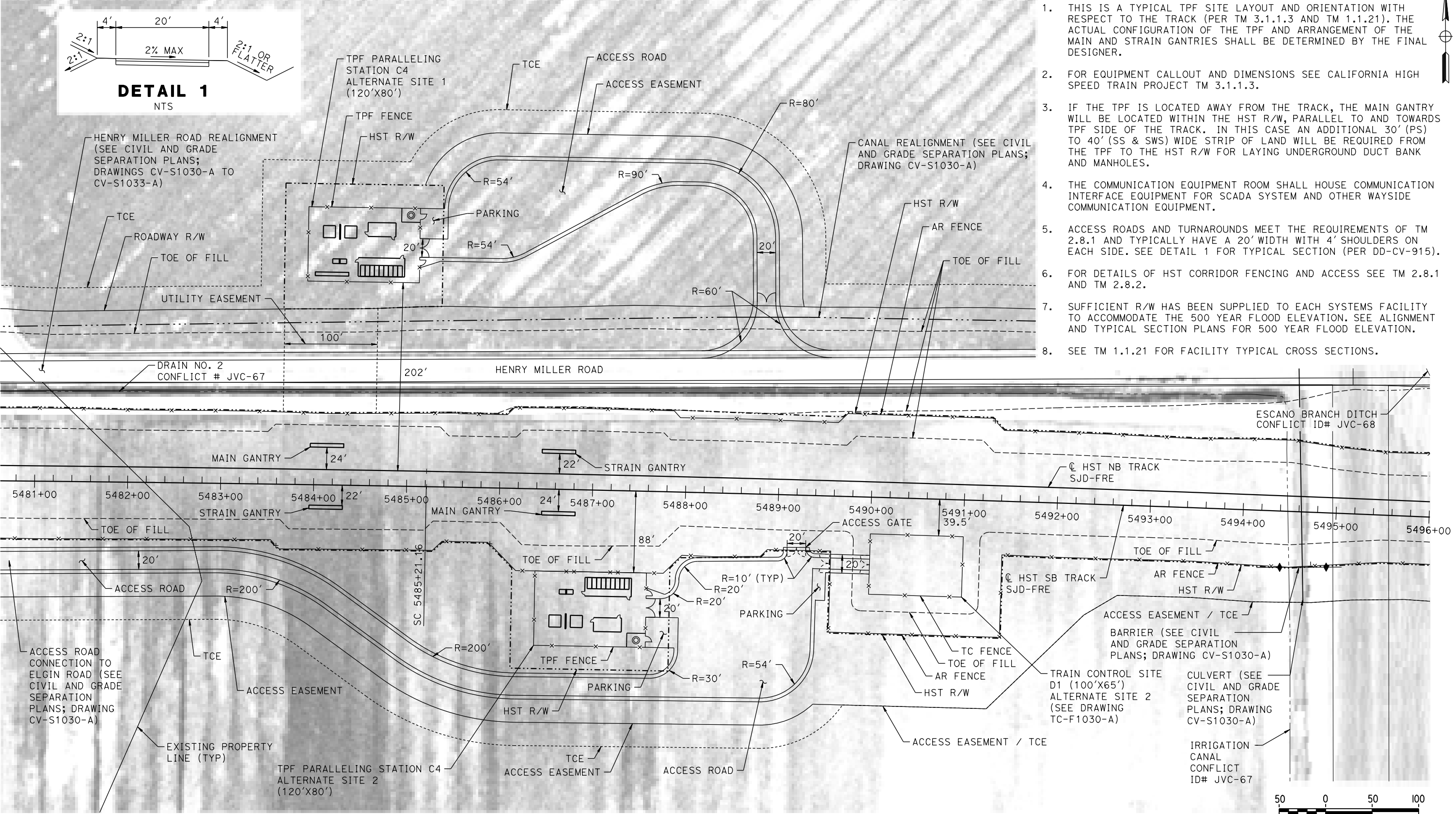
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
SYSTEMS FACILITIES KEY PLAN
SHEET 1 OF 1

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-B4001-A |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY



GENERAL NOTES:

1. THIS IS A TYPICAL TPF SITE LAYOUT AND ORIENTATION WITH RESPECT TO THE TRACK (PER TM 3.1.1.3 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE TPF AND ARRANGEMENT OF THE MAIN AND STRAIN GANTRIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. FOR EQUIPMENT CALLOUT AND DIMENSIONS SEE CALIFORNIA HIGH SPEED TRAIN PROJECT TM 3.1.1.3.
3. IF THE TPF IS LOCATED AWAY FROM THE TRACK, THE MAIN GANTRY WILL BE LOCATED WITHIN THE HST R/W, PARALLEL TO AND TOWARDS TPF SIDE OF THE TRACK. IN THIS CASE AN ADDITIONAL 30' (PS) TO 40' (SS & SWS) WIDE STRIP OF LAND WILL BE REQUIRED FROM THE TPF TO THE HST R/W FOR LAYING UNDERGROUND DUCT BANK AND MANHOLES.
4. THE COMMUNICATION EQUIPMENT ROOM SHALL HOUSE COMMUNICATION INTERFACE EQUIPMENT FOR SCADA SYSTEM AND OTHER WAYSIDE COMMUNICATION EQUIPMENT.
5. ACCESS ROADS AND TURNAROUNDS MEET THE REQUIREMENTS OF TM 2.8.1 AND TYPICALLY HAVE A 20' WIDTH WITH 4' SHOULDERS ON EACH SIDE. SEE DETAIL 1 FOR TYPICAL SECTION (PER DD-CV-915).
6. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND TM 2.8.2.
7. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
8. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.

PLAN

p0042226 11-MAR-2016 01:43 MF-TP-01030-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

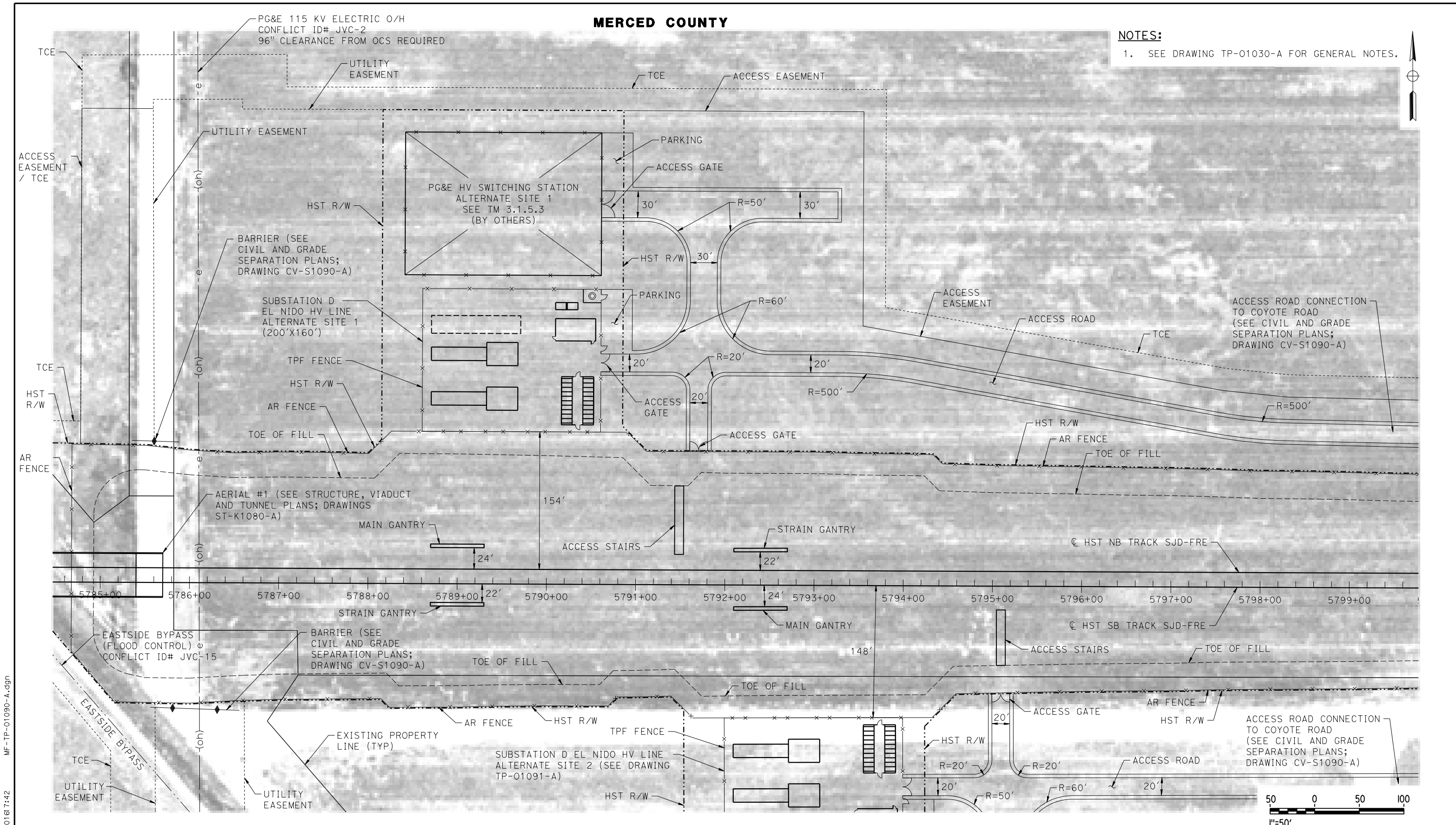
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION C4 ALTERNATE SITES 1 & 2

CONTRACT NO.
HSR08-05

DRAWING NO.
TP-01030-A

SCALE
AS SHOWN

SHEET NO.



NOTES:
1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

PLAN

07-MAR-2016 17:42 MF-TP-01090-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
M. TACTAY
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

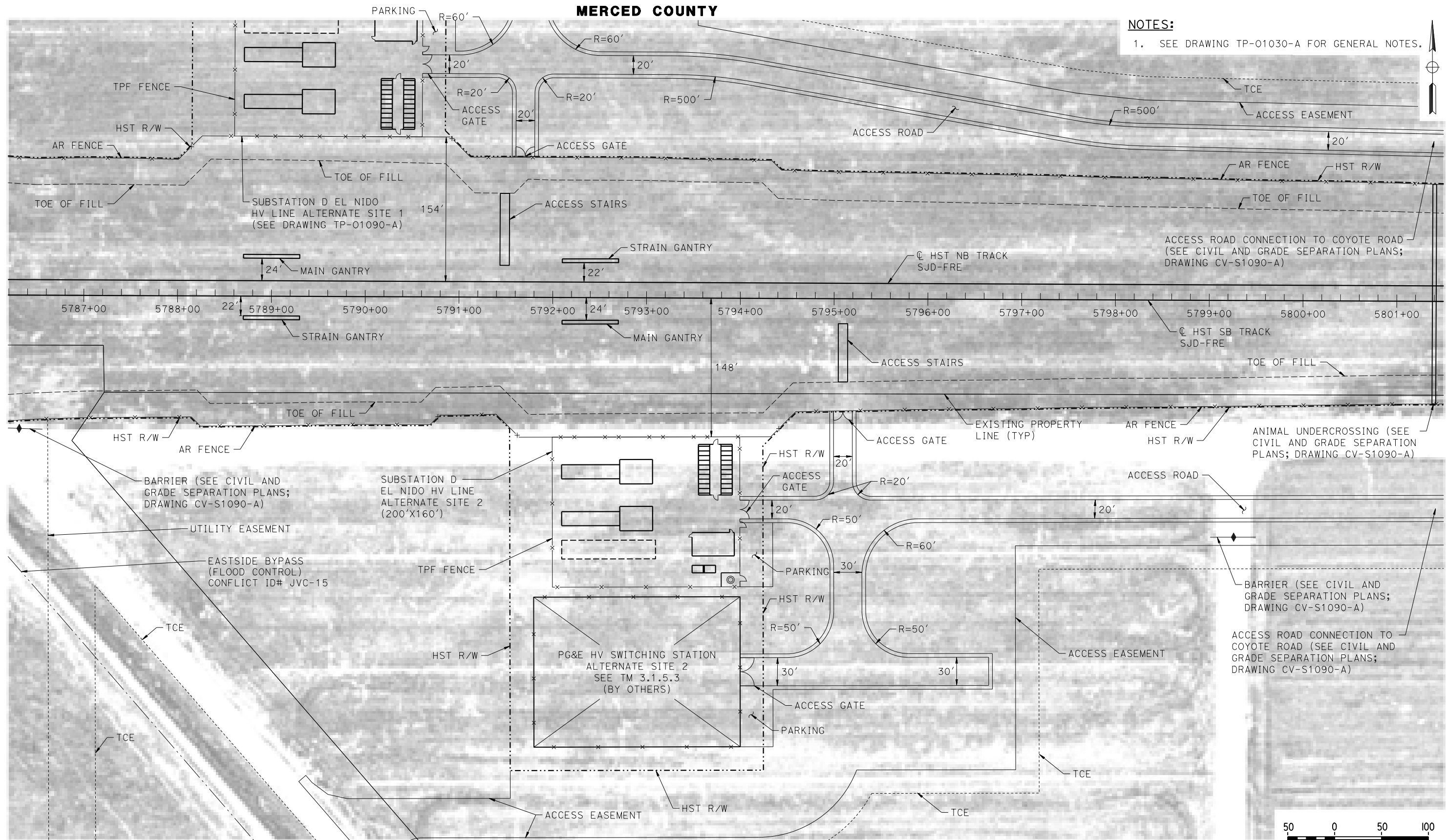
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION D (EL NIDO) ALTERNATE SITE 1

CONTRACT NO.
HSR08-05
DRAWING NO.
TP-01090-A
SCALE
AS SHOWN
SHEET NO.

07-MAR-2016 17:43 MF-TP-01091-A.dgn



NOTES:
1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

PLAN

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
M. TACTAY
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

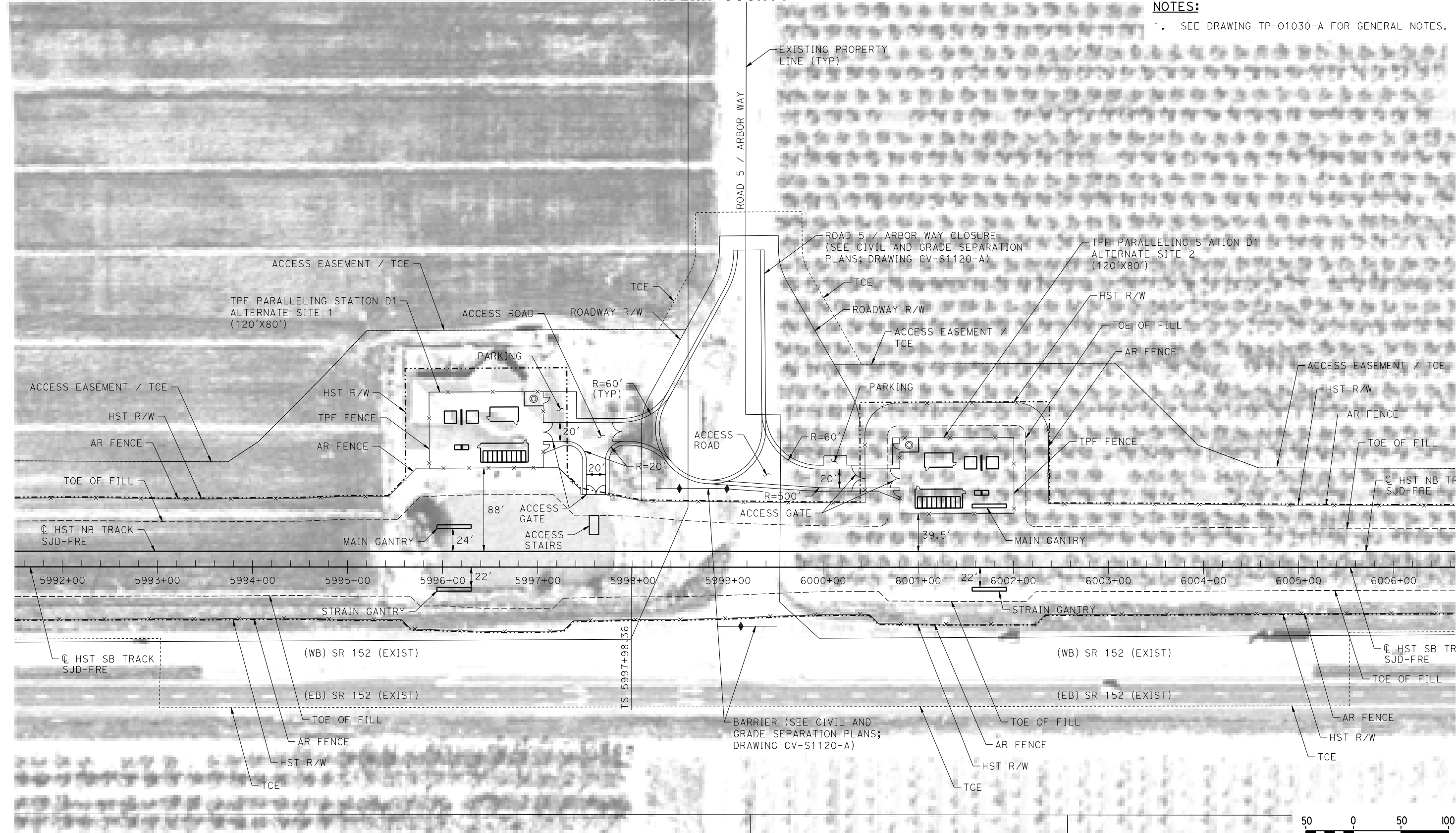


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION D (EL NIDO) ALTERNATE SITE 2

CONTRACT NO.
HSR08-05
DRAWING NO.
TP-01091-A
SCALE
AS SHOWN
SHEET NO.

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

07-MAR-2016 17:44 MF-TP-01120-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

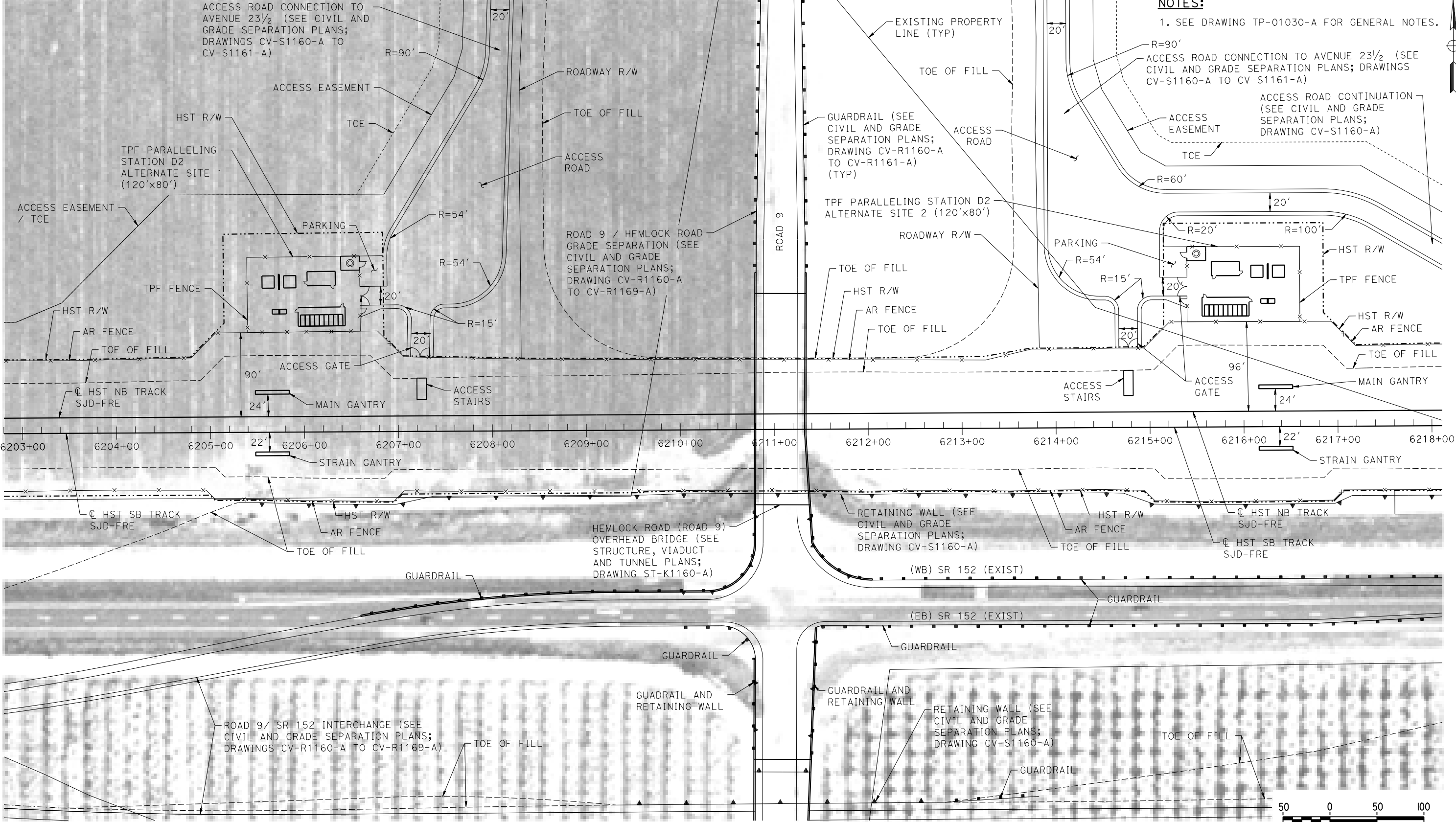
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D1 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01120-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY



NOTES:
1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.
ACCESS ROAD CONNECTION TO AVENUE 23 1/2 (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1160-A TO CV-S1161-A)
ACCESS ROAD CONTINUATION (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-A)

PLAN

18-MAR-2016 09:26 MF-TP-01160-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
M. TACTAY
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

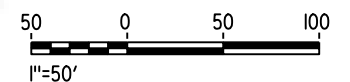
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D2 ALTERNATE SITES 1 & 2

CONTRACT NO.
HSR08-05
DRAWING NO.
TP-01160-A
SCALE
AS SHOWN
SHEET NO.



CONTRACT NO.
HSR08-05

DRAWING NO.
TP-01200-A

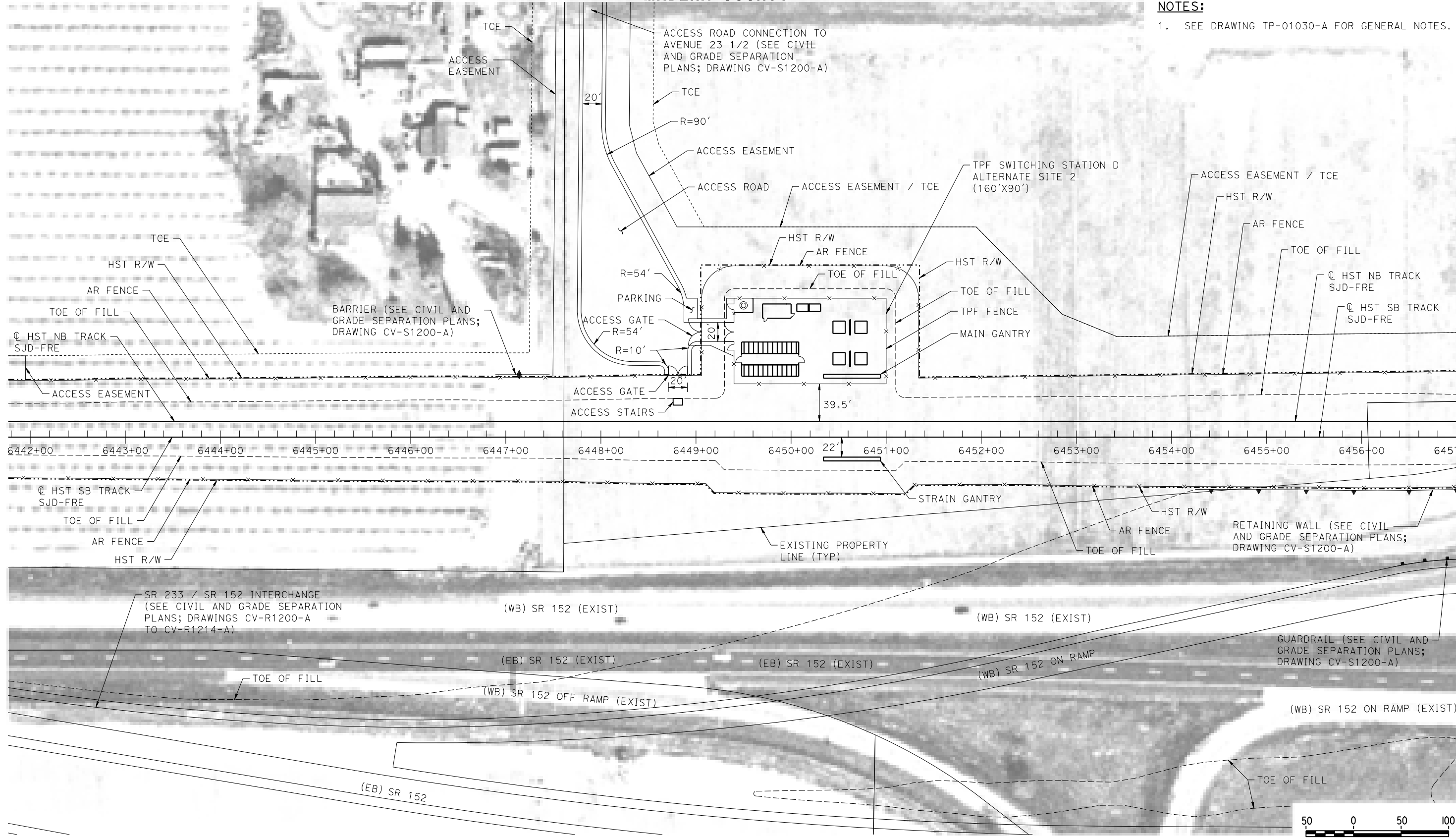

SCALE
AS SHOWN

SHEET NO.

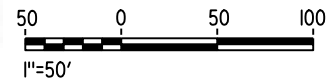
MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN



07-MAR-2016 17:47 MF-TP-01201-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA

DRAWN BY
M. TACTAY

CHECKED BY
A. GURA

IN CHARGE
C. LEMLEY

DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION D ALTERNATE SITE 2

CONTRACT NO.
HSR08-05

DRAWING NO.
TP-01201-A

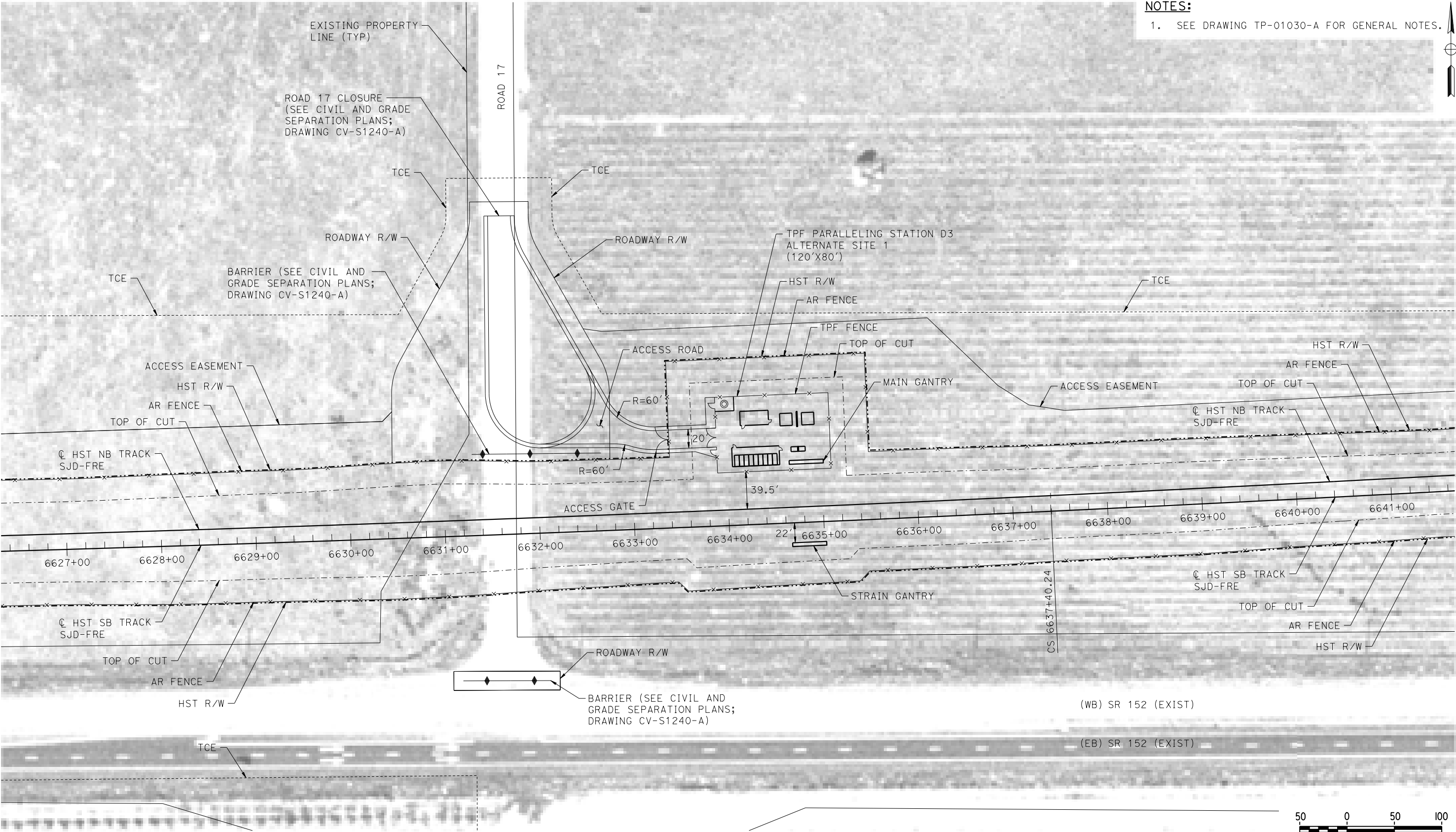
SCALE
AS SHOWN

SHEET NO.

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

07-MAR-2016 17:48 MF-TP-01240-A.dgn

00051330

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

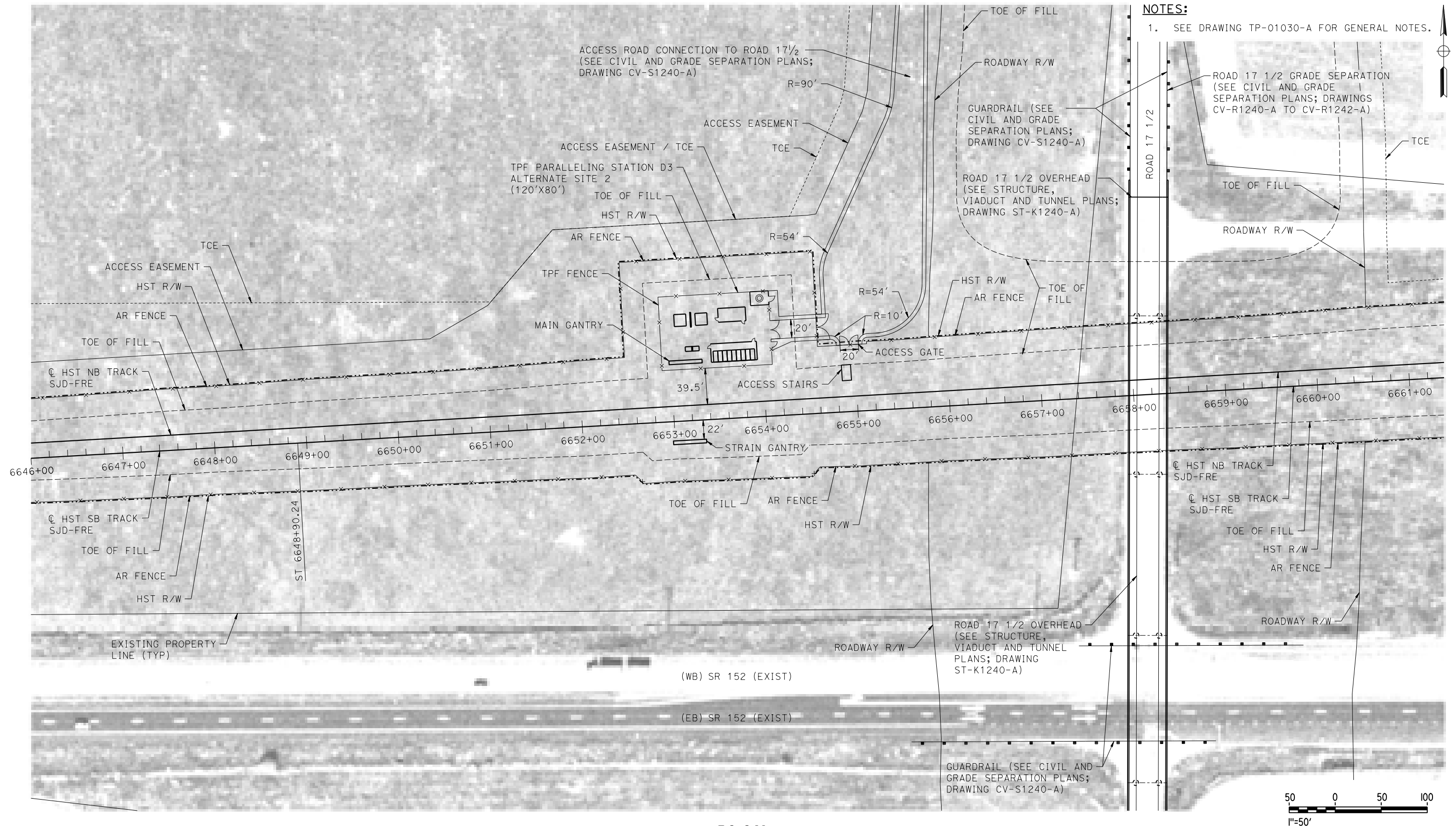
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D3 ALTERNATE SITE 1

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01240-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

PLAN

| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

| | |
|-------------|------------|
| DESIGNED BY | A. GURA |
| DRAWN BY | M. TACTAY |
| CHECKED BY | A. GURA |
| IN CHARGE | C. LEMLEY |
| DATE | 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



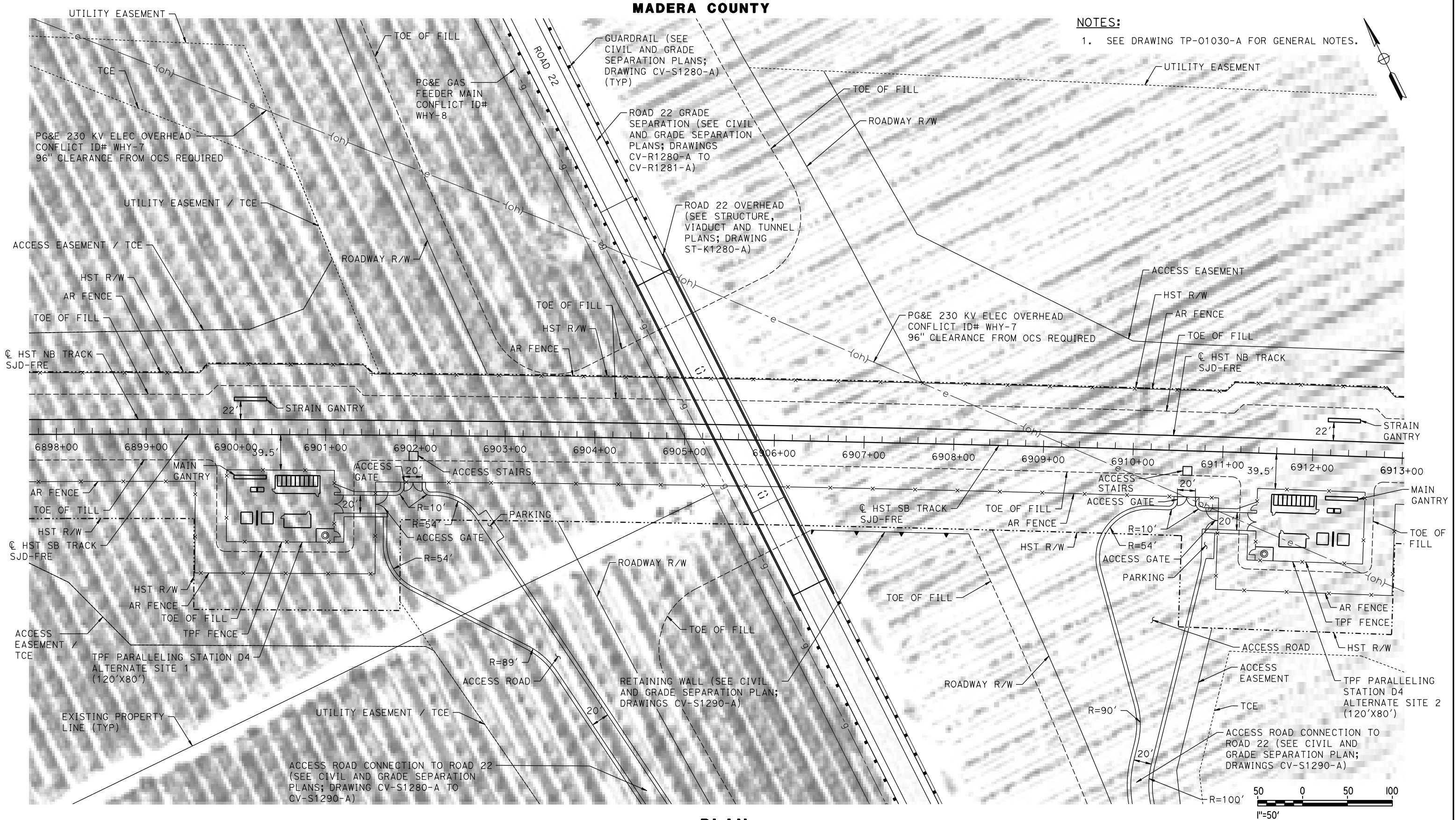
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D3 ALTERNATE SITE 2

| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TP-01241-A |
| SCALE | AS SHOWN |
| SHEET NO. | |

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

p0042226 11-MAR-2016 08:33 MF-TP-01280-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



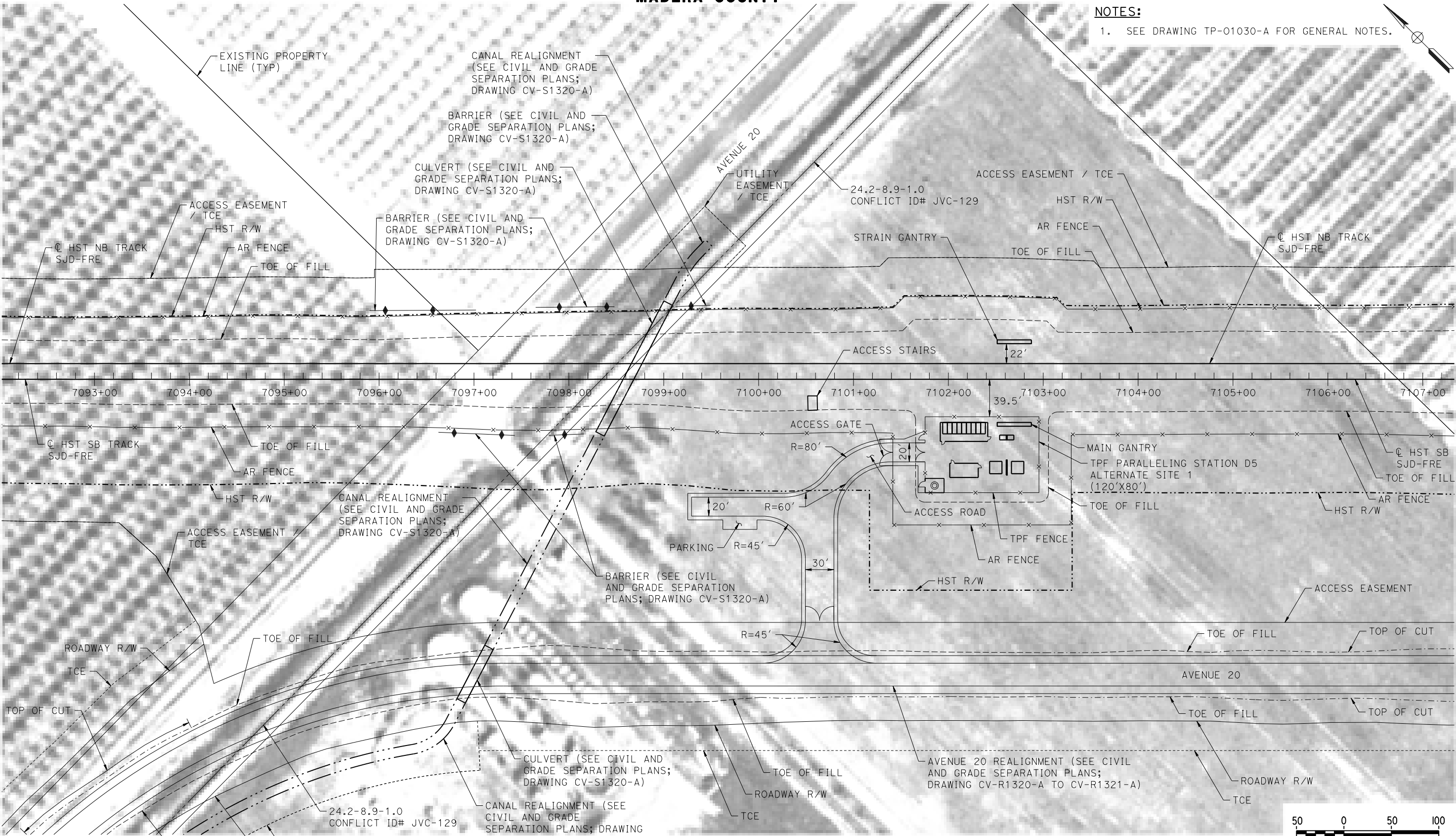
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D4 ALTERNATE SITES 1 & 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01280-A |
| SCALE AS SHOWN |
| SHEET NO. |

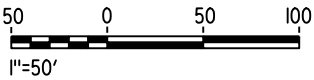
MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN



07-MAR-2016 7:52 MF-TP-01320-A.dgn

00051330

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

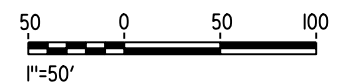
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D5 ALTERNATE SITE 1

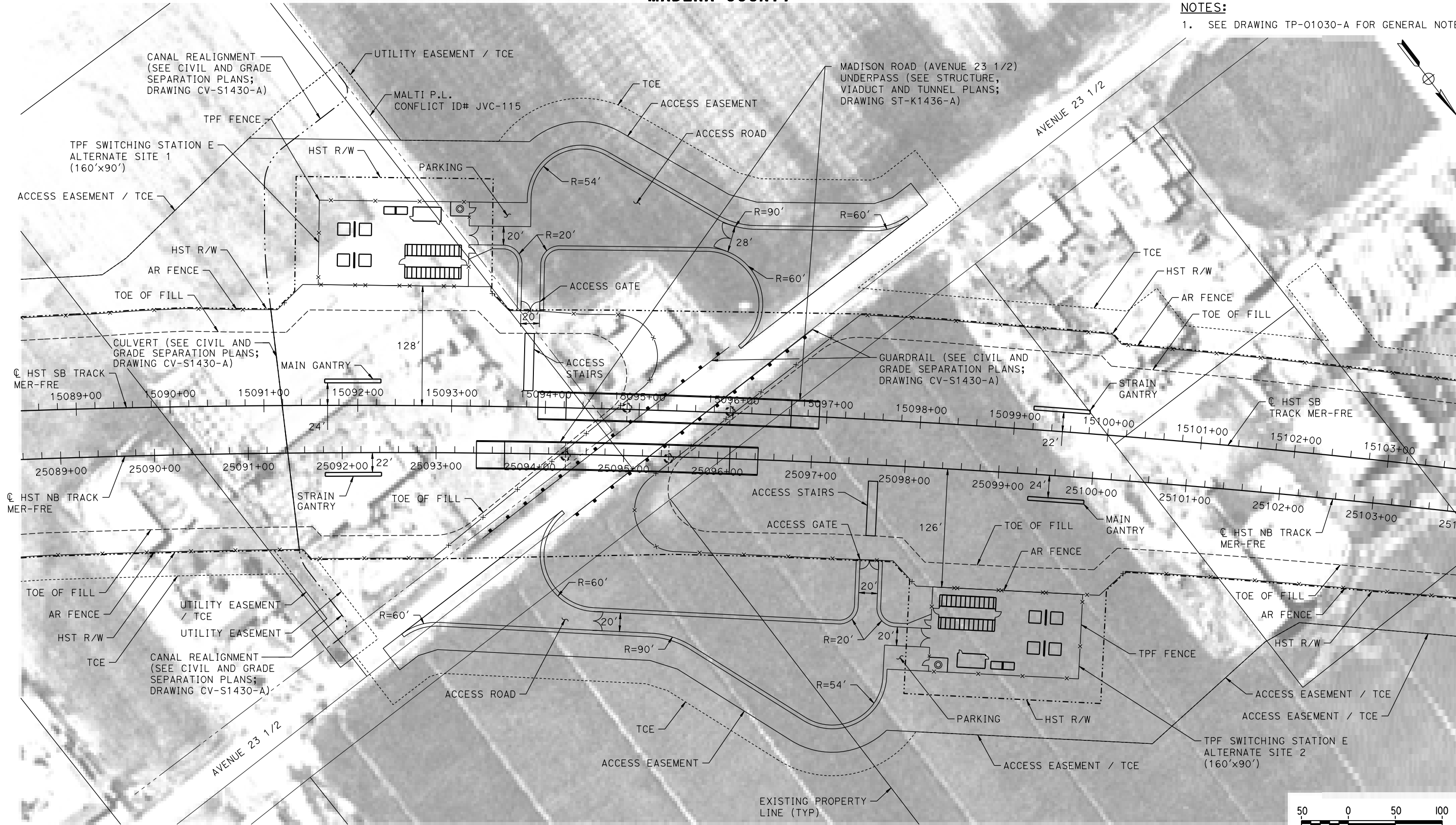
| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01320-A |
| SCALE AS SHOWN |
| SHEET NO. |



| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TP-01321-A |
| SCALE | AS SHOWN |
| SHEET NO. | |

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

p0042226 11-MAR-2016 08:34 MF-TP-01430-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



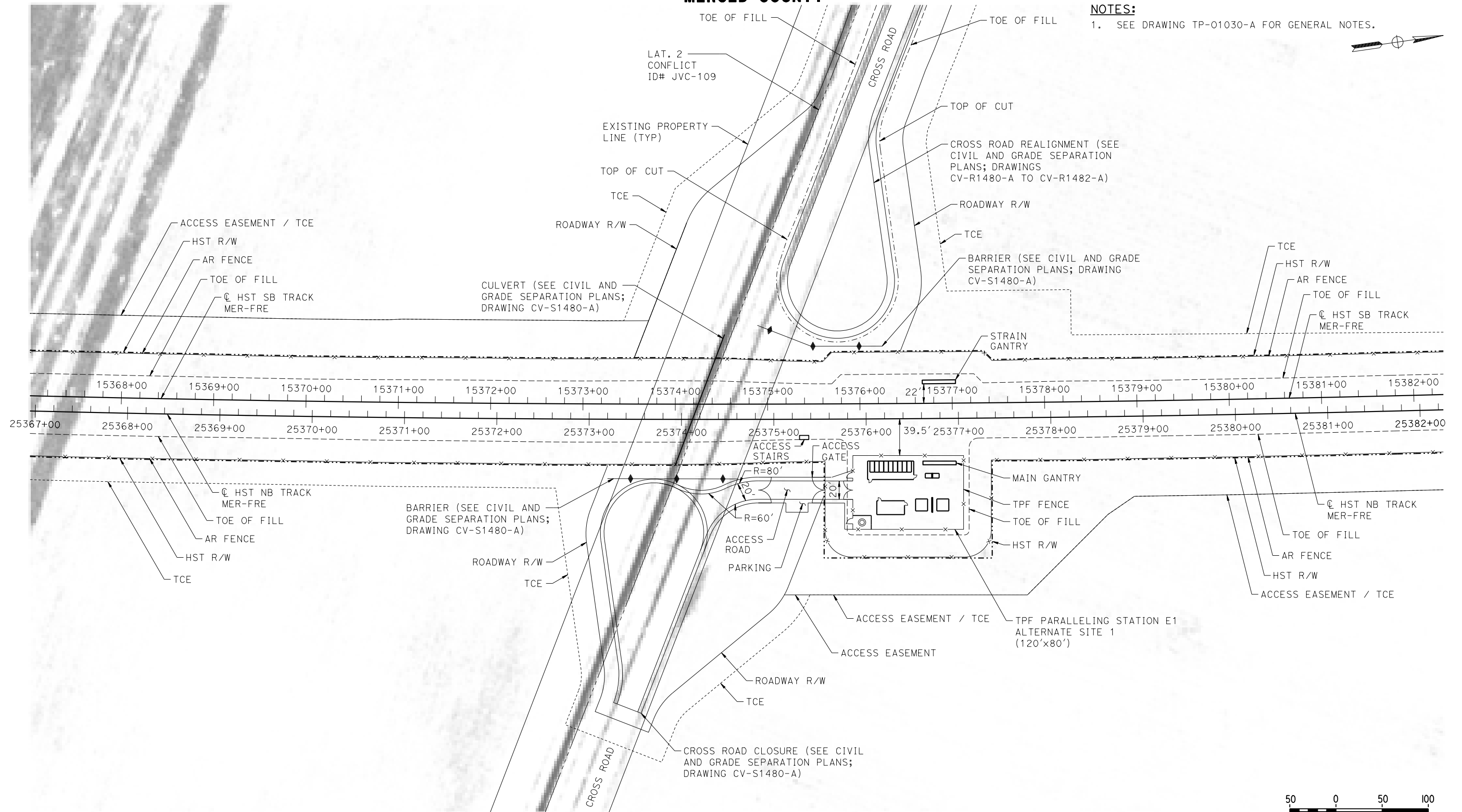
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION E ALTERNATE SITES 1 & 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01430-A |
| SCALE AS SHOWN |
| SHEET NO. |

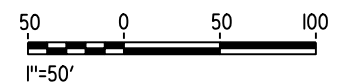
MERCED COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN



18-MAR-2016 01:25 MF-TP-01480-A.dgn

18-MAR-2016 01:25 MF-TP-01480-A.dgn

18-MAR-2016 01:25 MF-TP-01480-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E1 ALTERNATE SITE 1

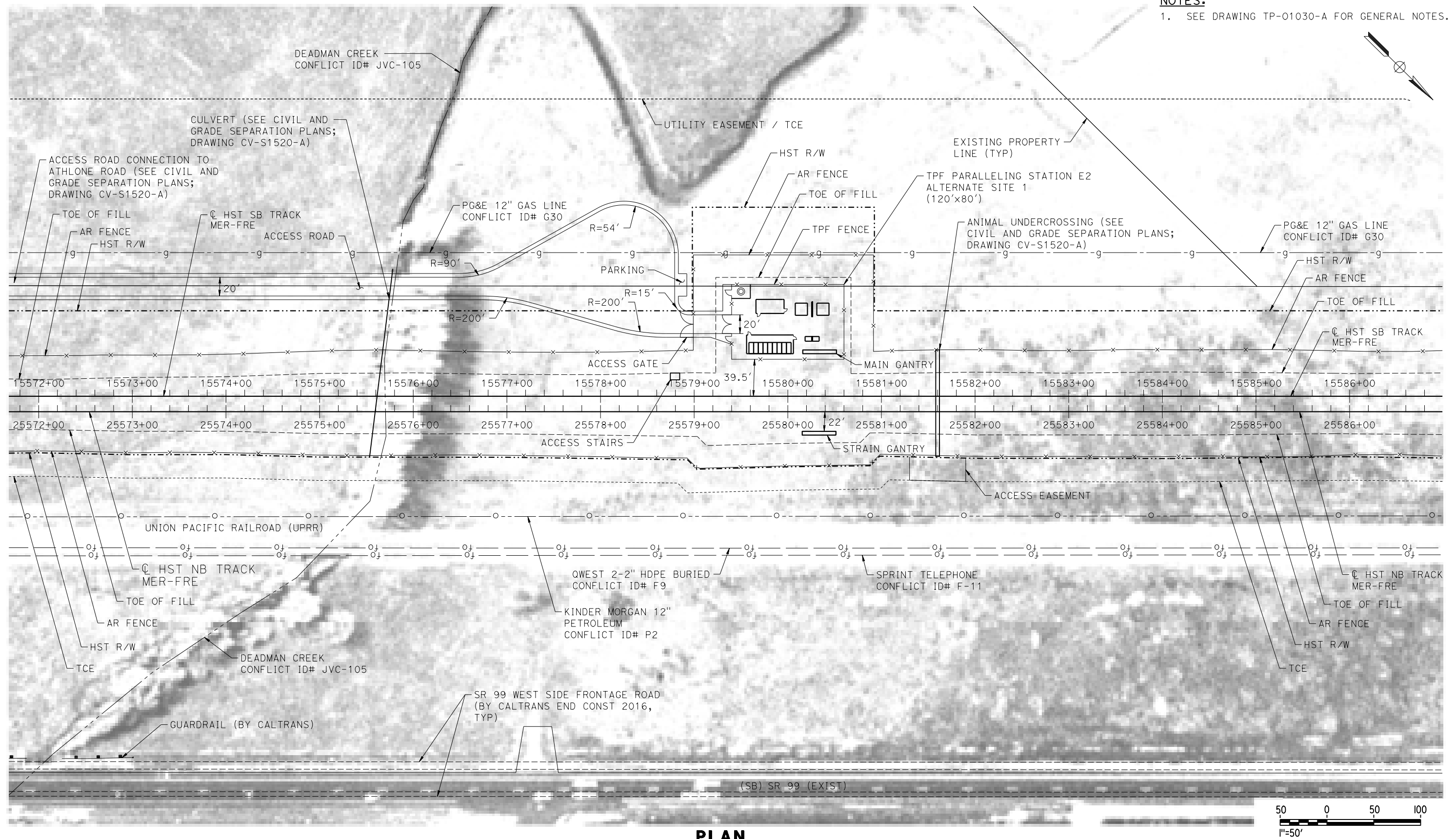
| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01480-A |
| SCALE AS SHOWN |
| SHEET NO. |

| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TP-01490-A |
| SCALE | AS SHOWN |
| SHEET NO. | |

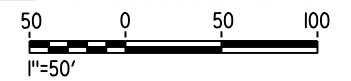
MERCED COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN



MF-TP-01520-A.dgn

18-MAR-2016 09:32

p005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



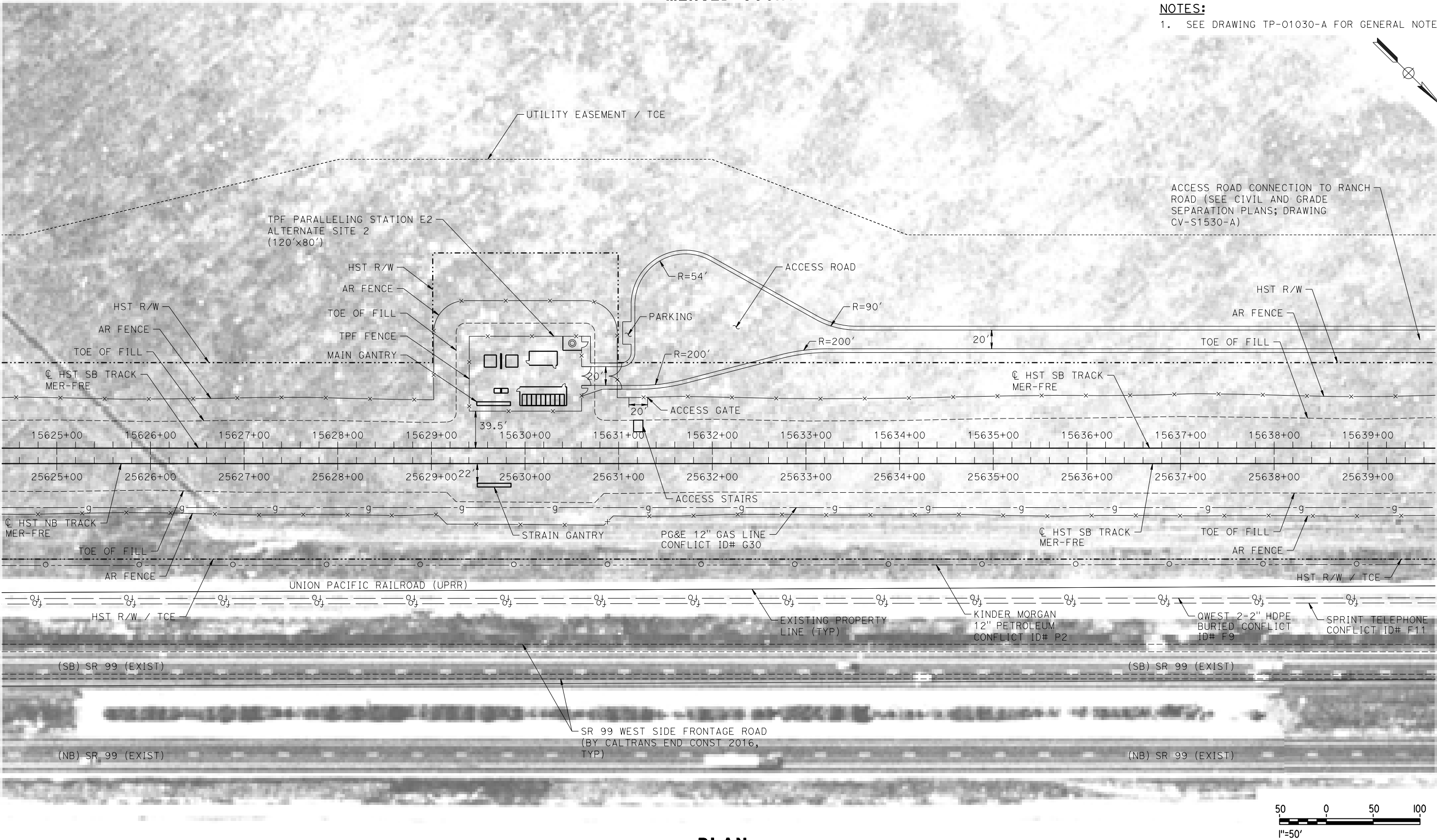
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E2 ALTERNATE SITE 1

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01520-A |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:
1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

07-MAR-2016 17:59 MF-TP-01530-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

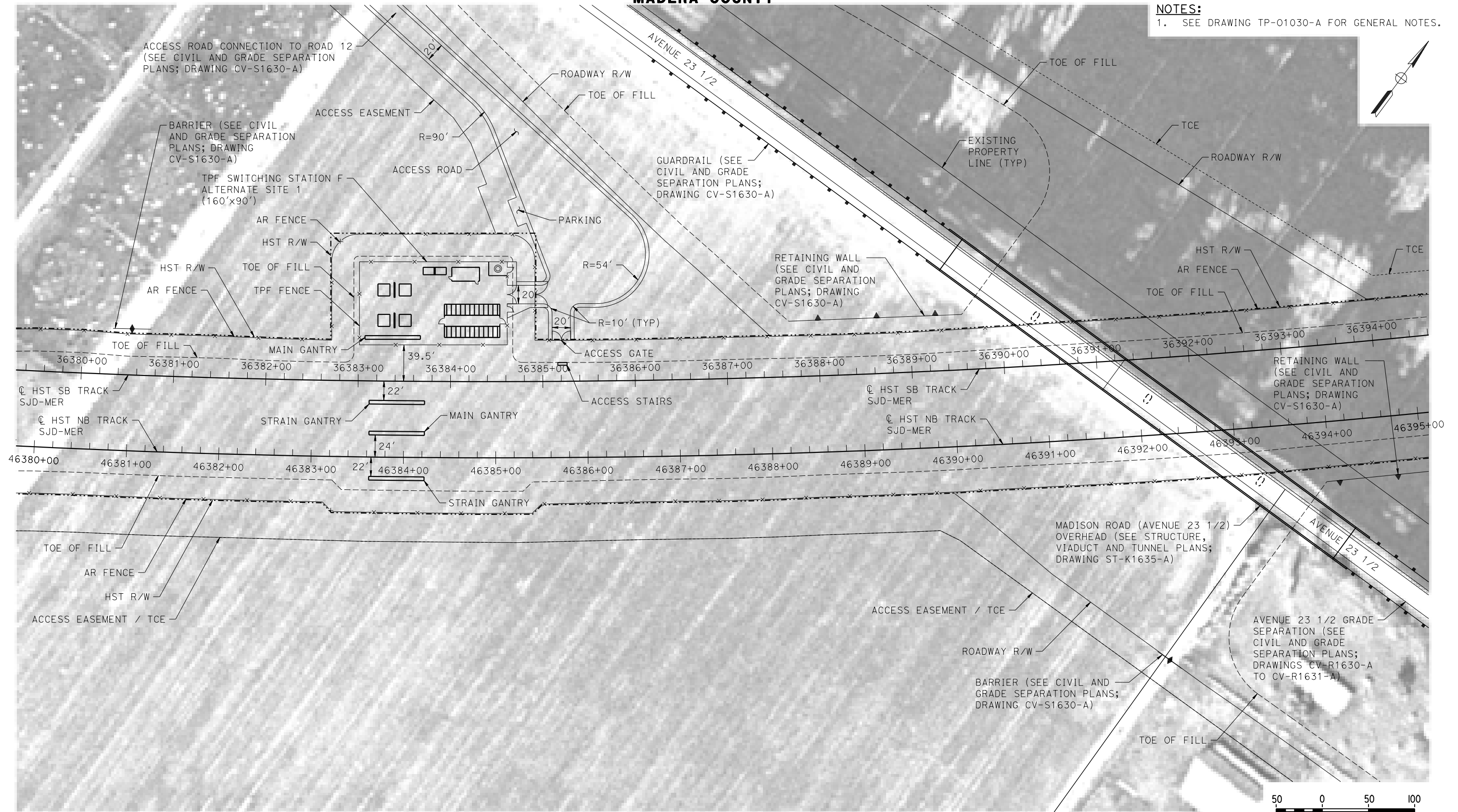
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E2 ALTERNATE SITE 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01530-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

18-MAR-2016 09:34 MF-TP-01630-A.dgn

18-MAR-2016 09:34

00051330

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



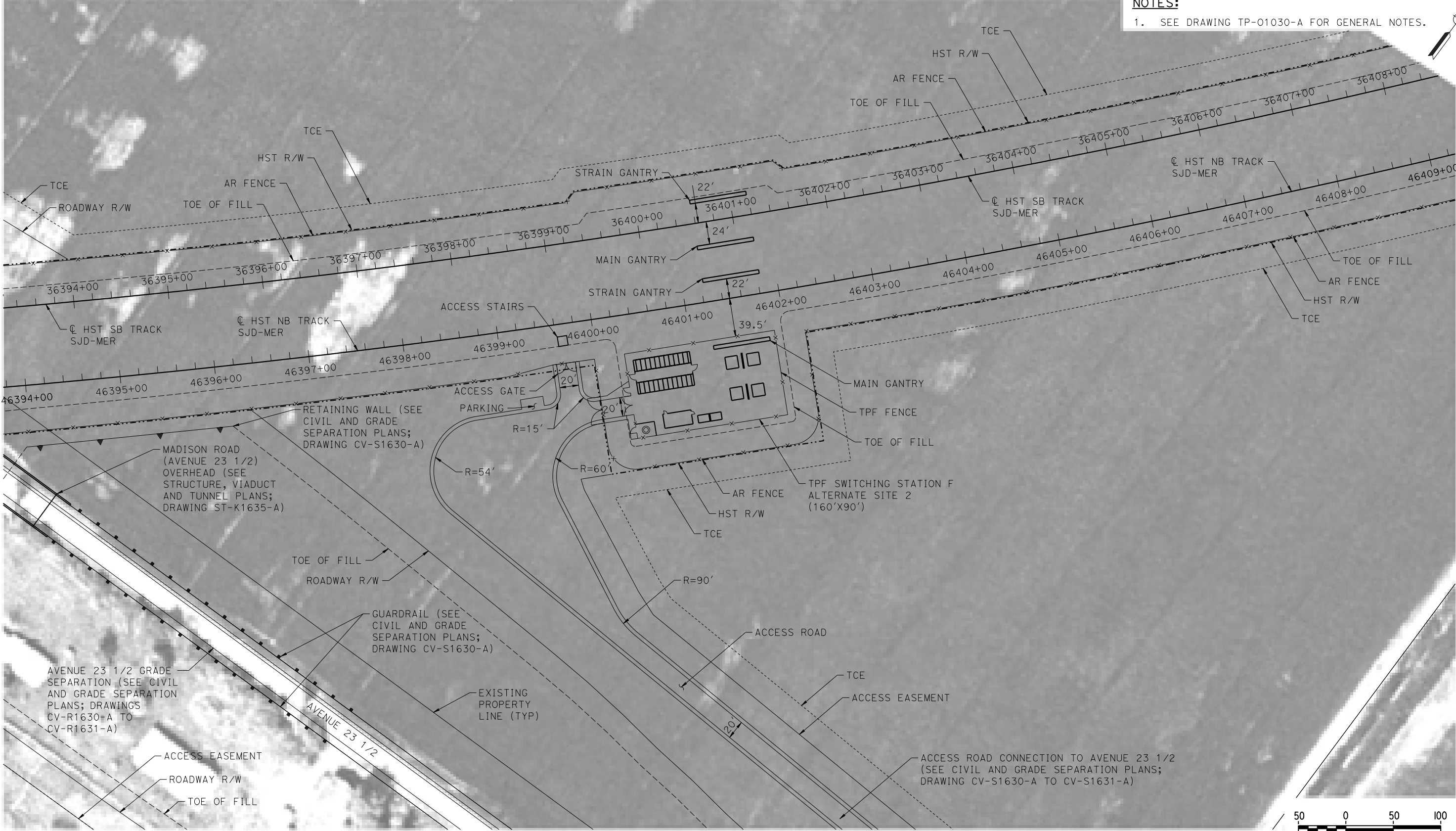
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION F ALTERNATE SITE 1

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01630-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

p005133g 18-MAR-2016 09:35 MF-TP-01631-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

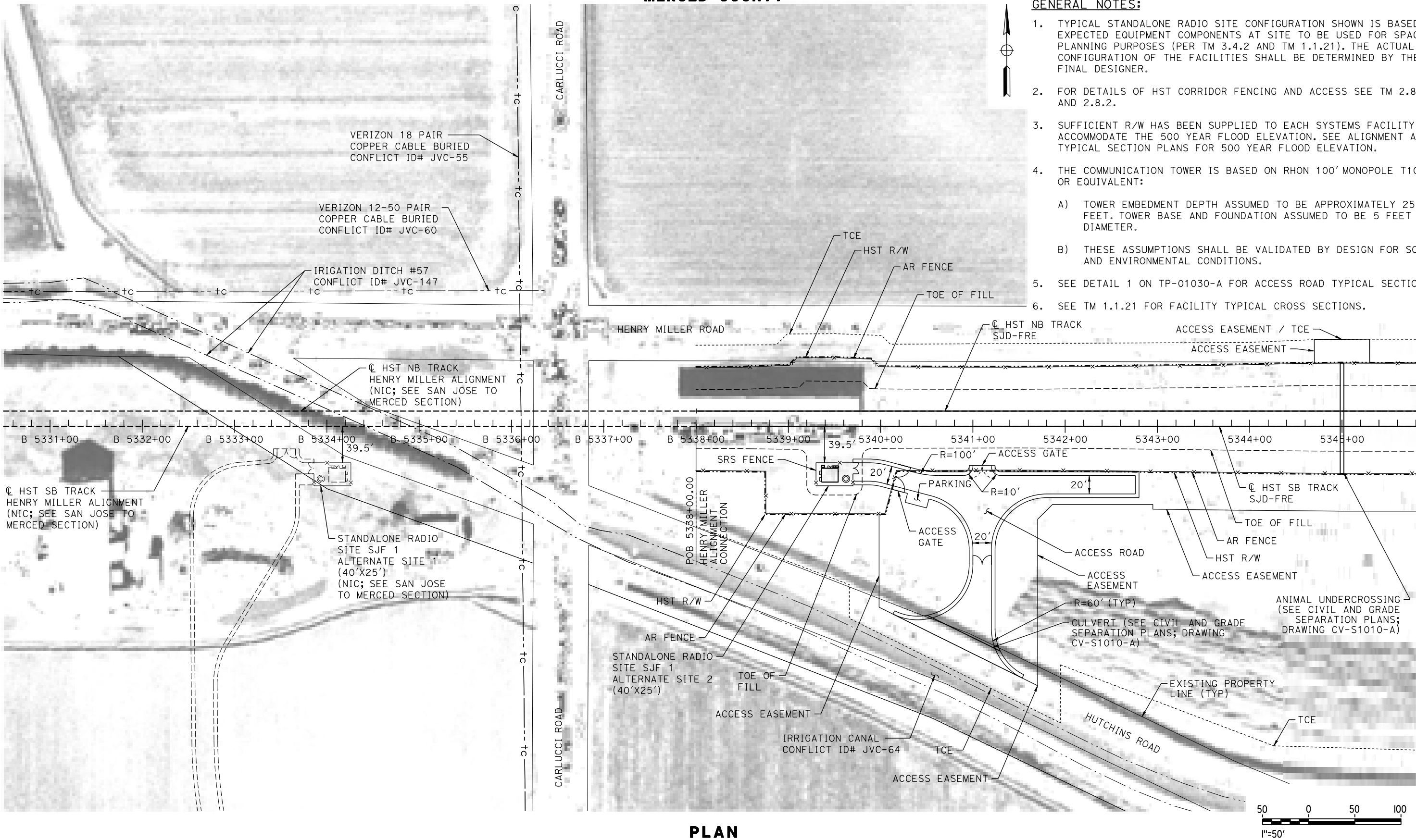
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION F ALTERNATE SITE 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01631-A |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY



- GENERAL NOTES:**
- 1. TYPICAL STANDALONE RADIO SITE CONFIGURATION SHOWN IS BASED ON EXPECTED EQUIPMENT COMPONENTS AT SITE TO BE USED FOR SPACE PLANNING PURPOSES (PER TM 3.4.2 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE FACILITIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
 - 2. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND 2.8.2.
 - 3. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
 - 4. THE COMMUNICATION TOWER IS BASED ON RHON 100' MONOPOLE T100HA OR EQUIVALENT:
 - A) TOWER EMBEDMENT DEPTH ASSUMED TO BE APPROXIMATELY 25 FEET. TOWER BASE AND FOUNDATION ASSUMED TO BE 5 FEET IN DIAMETER.
 - B) THESE ASSUMPTIONS SHALL BE VALIDATED BY DESIGN FOR SOIL AND ENVIRONMENTAL CONDITIONS.
 - 5. SEE DETAIL 1 ON TP-01030-A FOR ACCESS ROAD TYPICAL SECTION.
 - 6. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.

PLAN



p0042226 11-MAR-2016 08:28 MF-CO-F1010-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2

CONTRACT NO.
HSR08-05

DRAWING NO.
CO-F1010-A

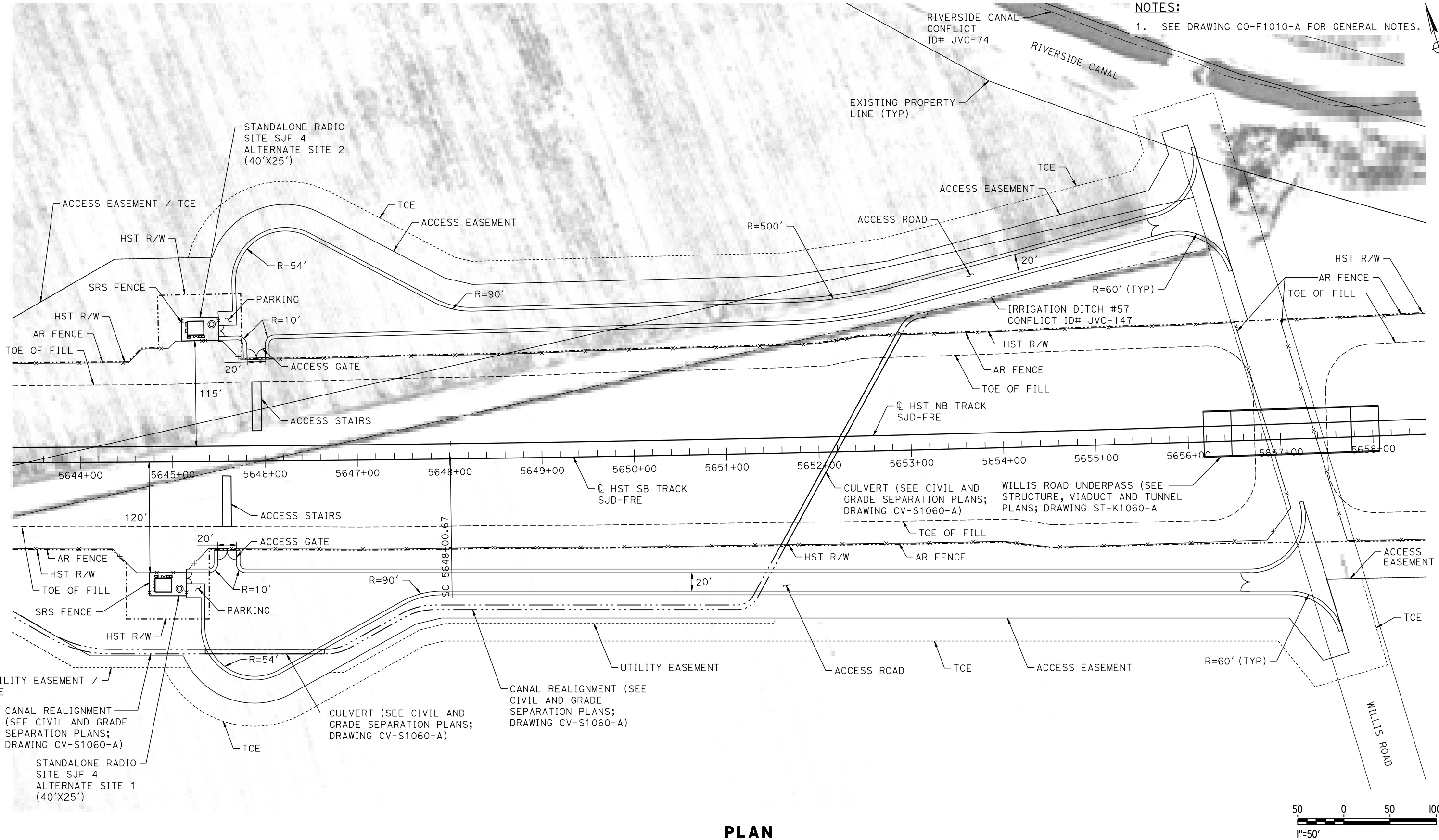
SCALE
AS SHOWN

SHEET NO.

MERCED COUNTY

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



PLAN

MF-CO-F1060-A.dgn
11-MAR-2016 08:29
p0042226

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

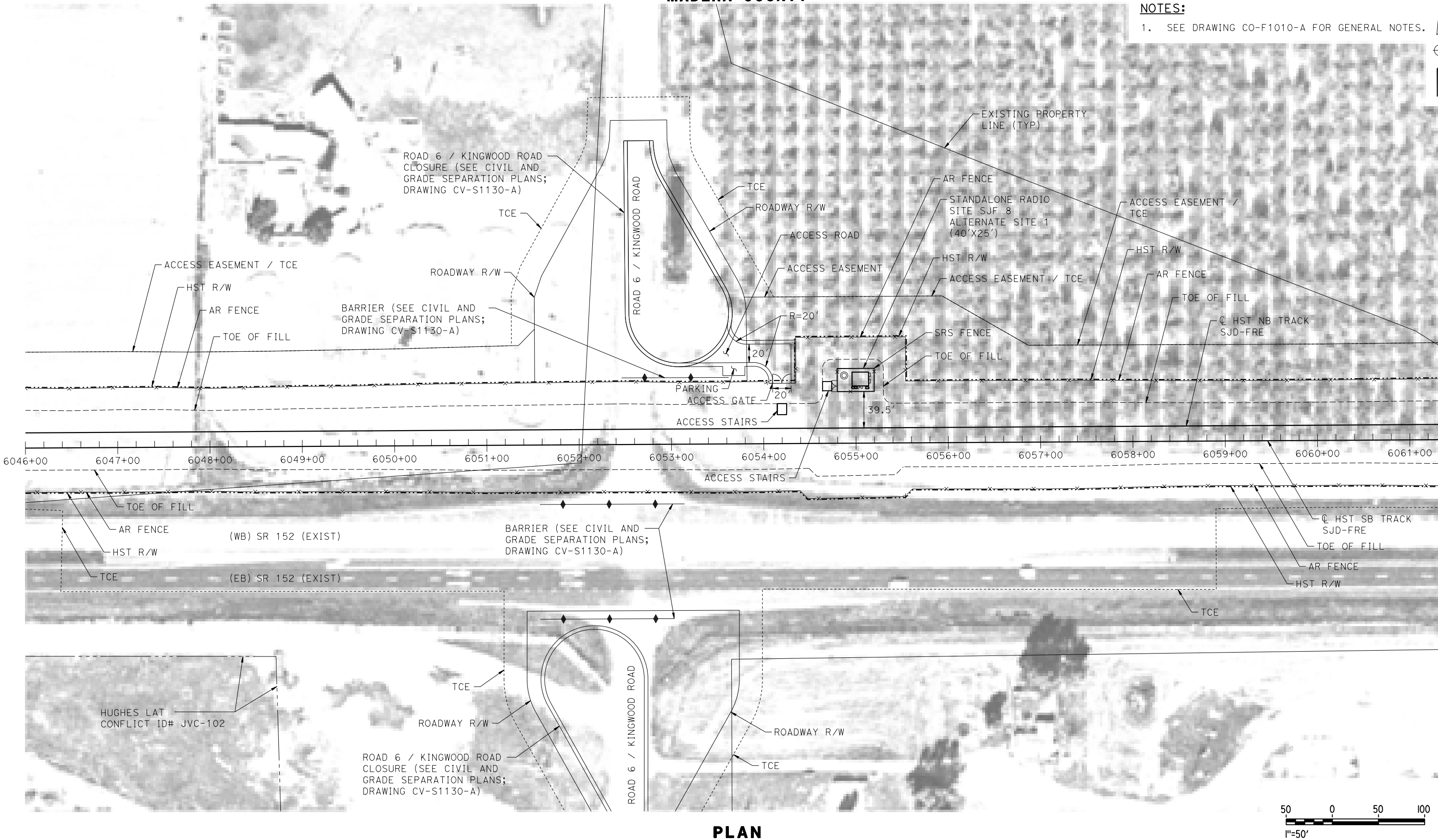


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1060-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



PLAN

p005133g 07-MAR-2016 7:33 MF-CO-F1130-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



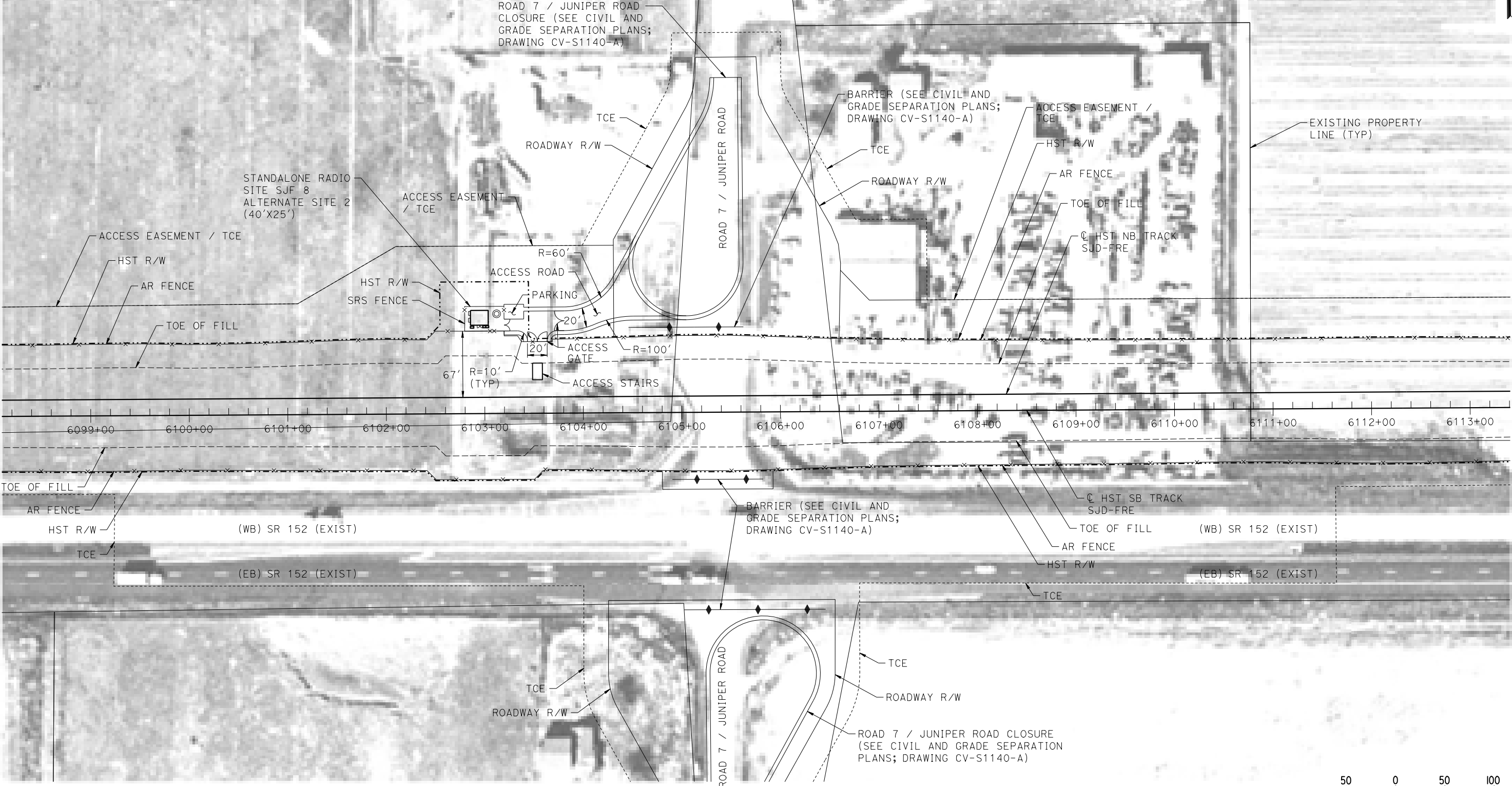
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 8 ALTERNATE SITE 1

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1130-A |
| SCALE AS SHOWN |
| SHEET NO. |

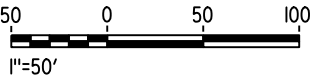
MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



PLAN



MF-CO-F1140-A.dgn
07-MAR-2016 17:34
p005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

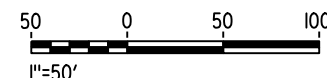
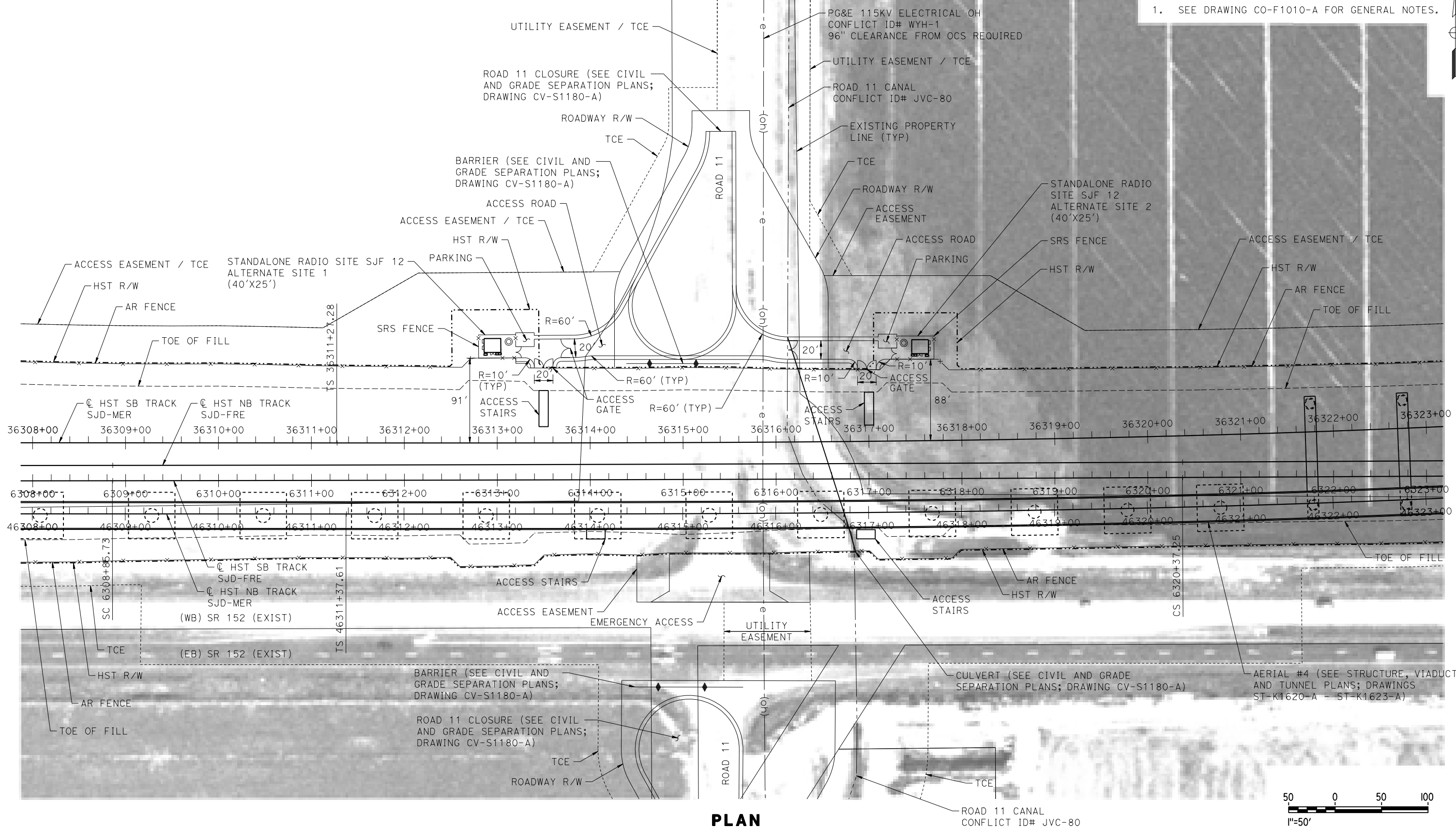
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 8 ALTERNATE SITE 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1140-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



MF-CO-F1180-A.dgn

18-MAR-2016 09:36

p005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA
HIGH-SPEED RAIL AUTHORITY**

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

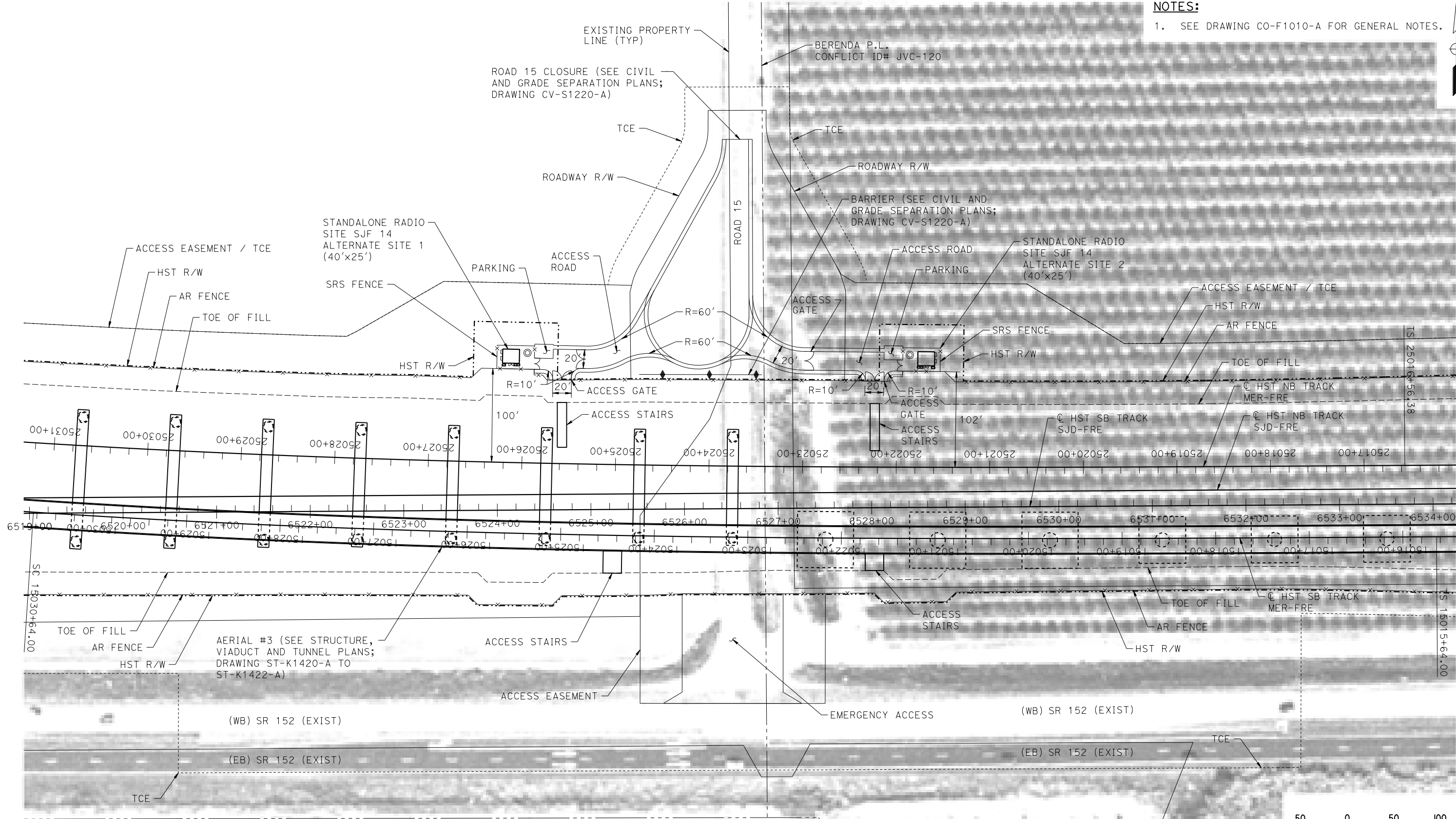
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 12 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1180-A |
| SCALE AS SHOWN |
| SHEET NO. |

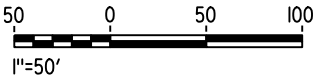
MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



PLAN



p005133g 07-MAR-2016 17:36 MF-CO-F1220-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

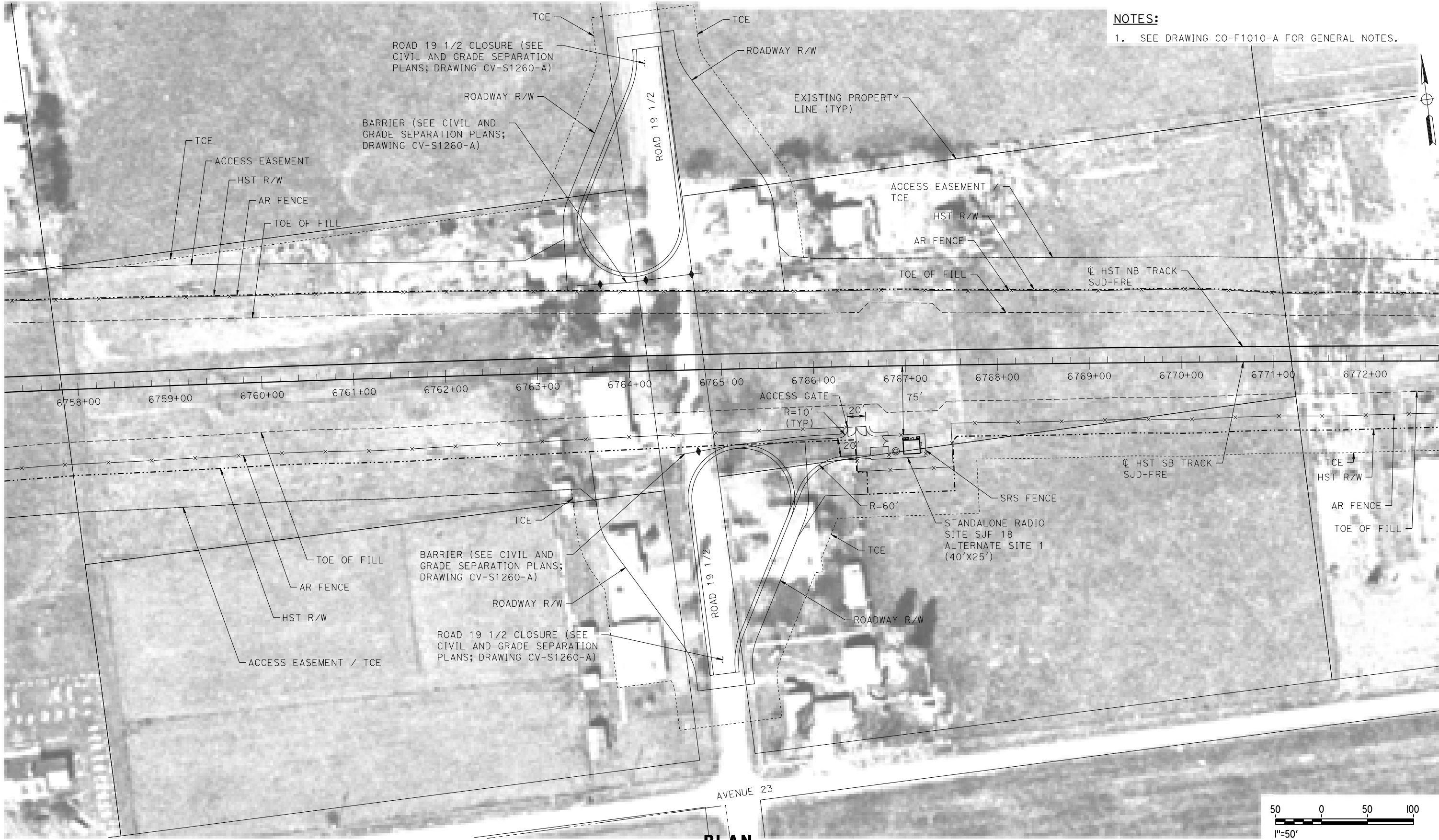
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 14 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1220-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



PLAN

18-MAR-2016 15:35 MF-CO-F1260-A.dgn

0005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 18 ALTERNATE SITE 1

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1260-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



PLAN

DESIGNED BY
A. GURA
DRAWN BY
M. TACTAY
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

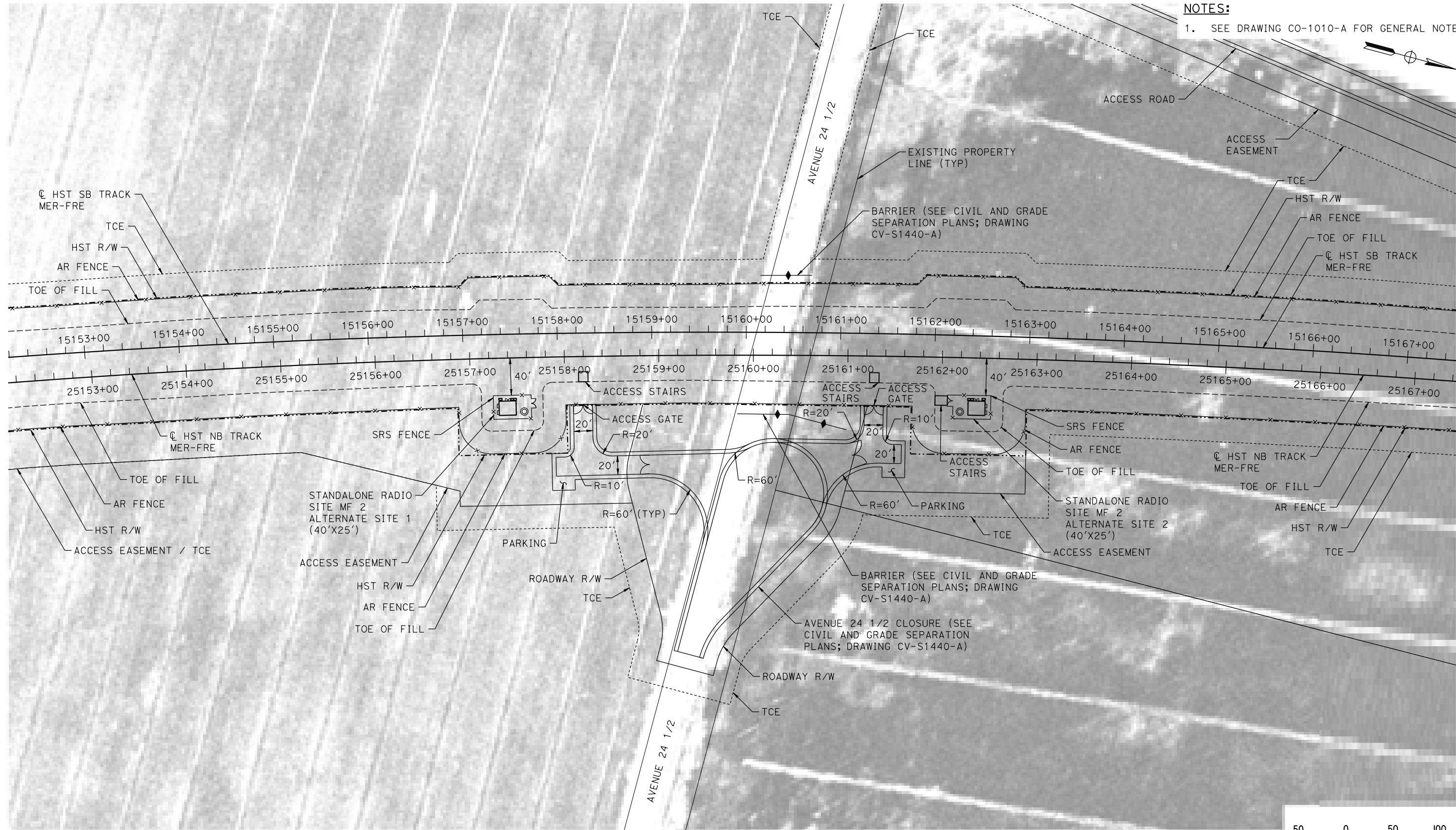
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 18 ALTERNATE SITE 2

CONTRACT NO.
HSR08-05
DRAWING NO.
CO-F1261-A
SCALE
AS SHOWN
SHEET NO.

MADERA COUNTY



NOTES:
1. SEE DRAWING CO-1010-A FOR GENERAL NOTES.

PLAN

18-MAR-2016 16:41:40 MF-CO-F1440-A.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

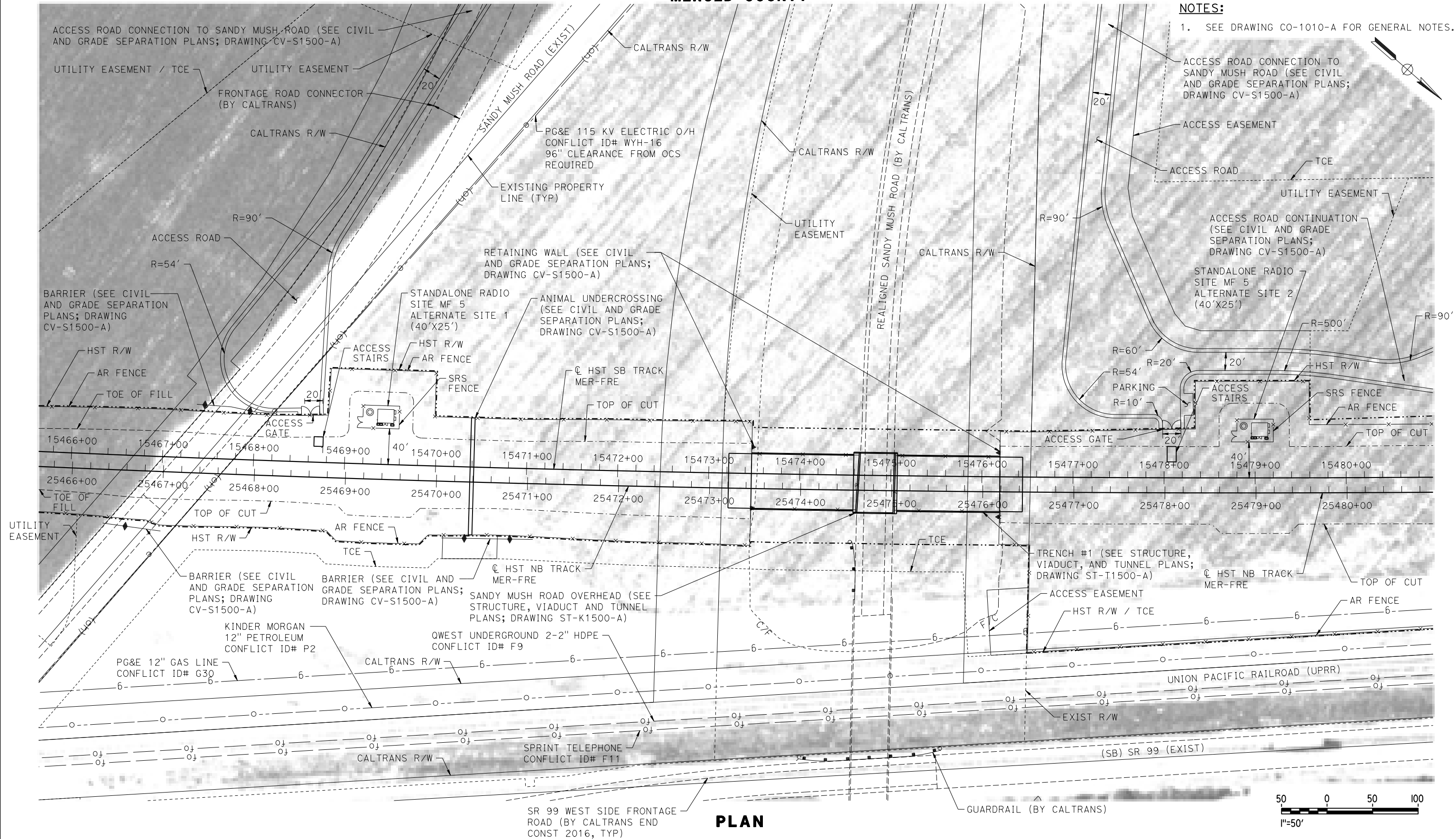
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE MF 2 ALTERNATE SITES 1 & 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1440-A |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:

1. SEE DRAWING CO-1010-A FOR GENERAL NOTES.



PLAN



p005133g 18-MAR-2016 09:38 MF-CO-F1500-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

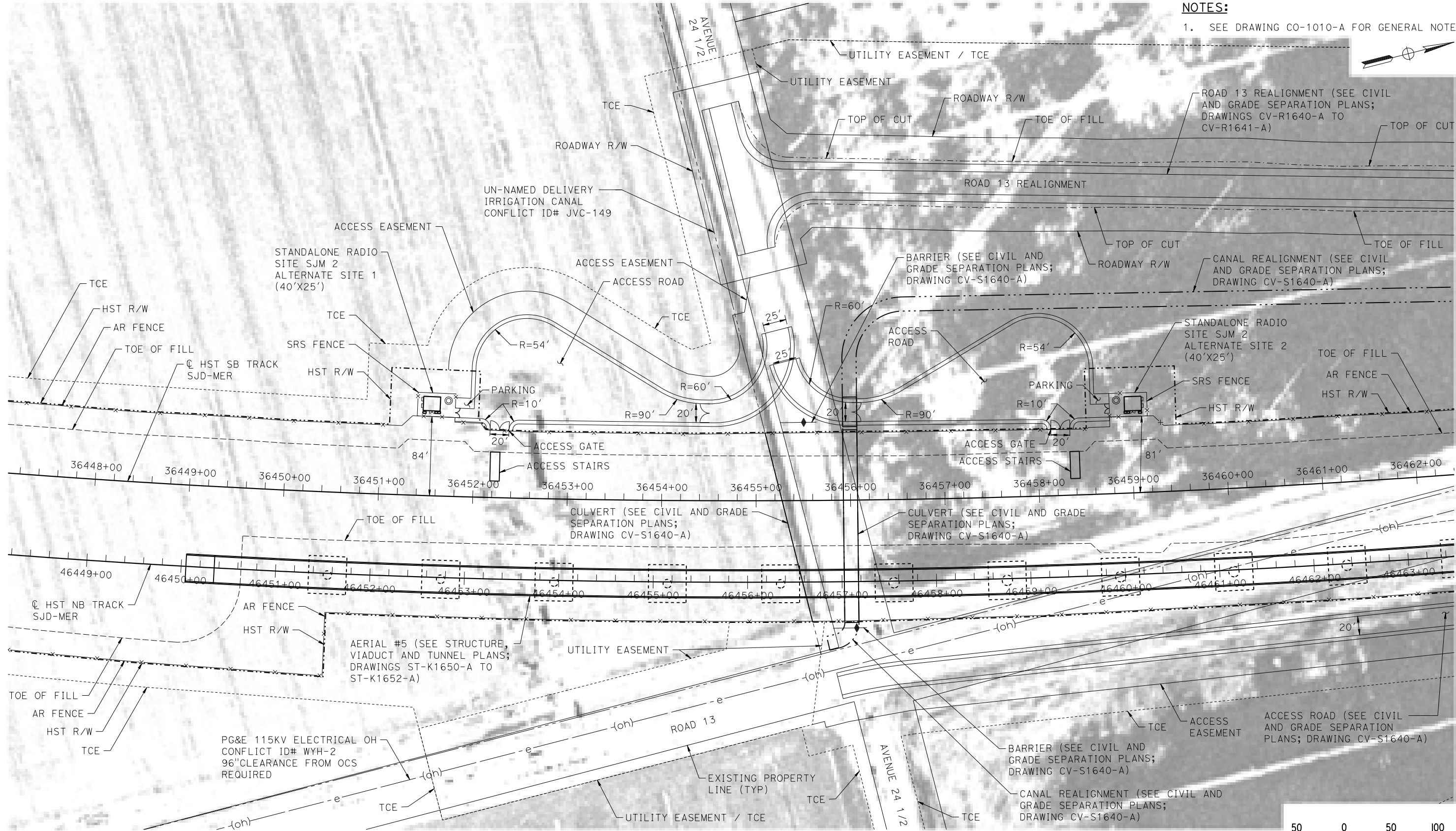
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE MF 5 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1500-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-1010-A FOR GENERAL NOTES.



PLAN

MF-CO-F1640-A.dgn
18-MAR-2016 09:40
p005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJM 2 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1640-A |
| SCALE AS SHOWN |
| SHEET NO. |

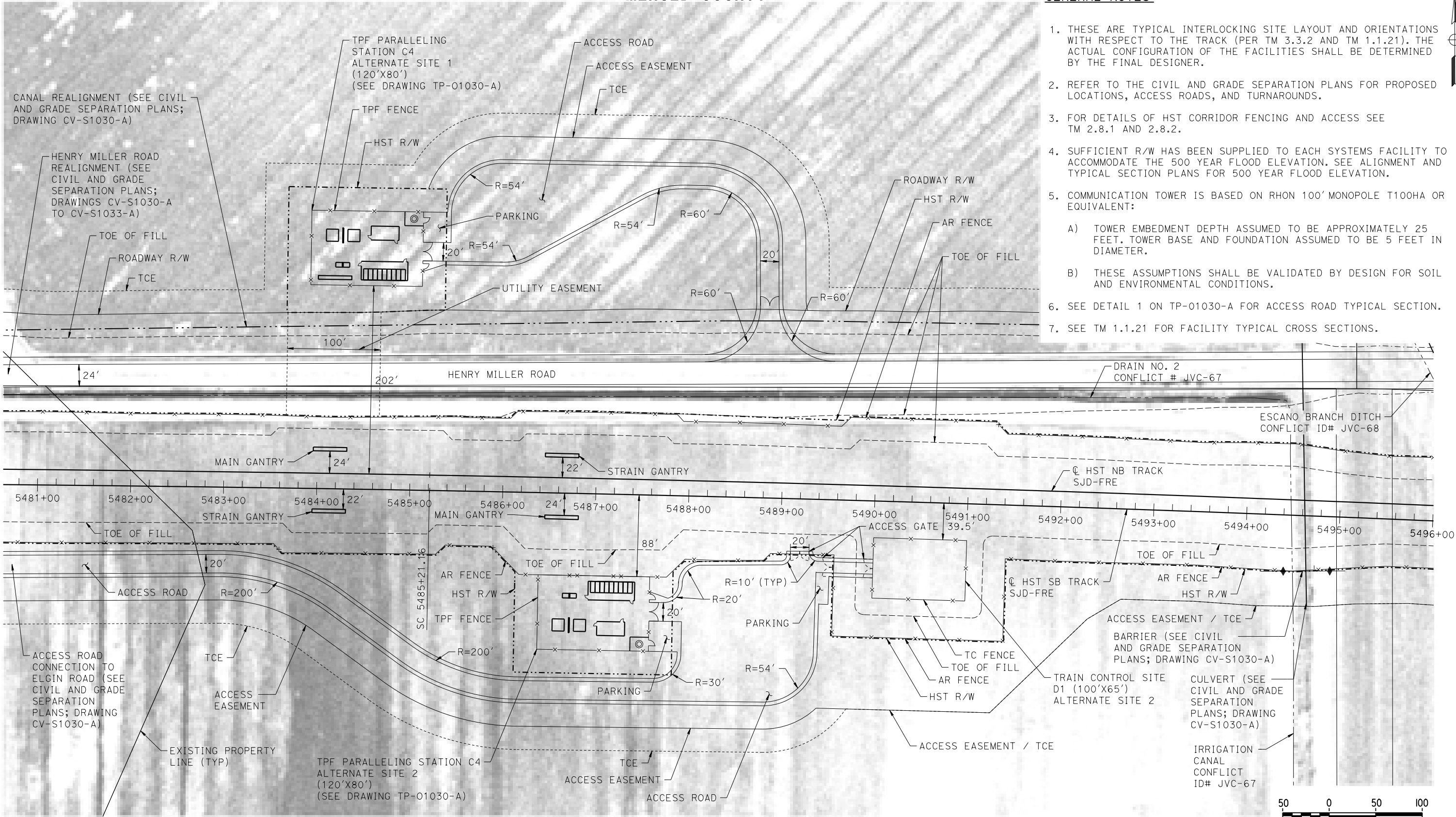
MERCED COUNTY

GENERAL NOTES:

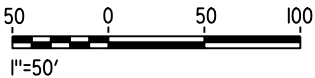
1. THESE ARE TYPICAL INTERLOCKING SITE LAYOUT AND ORIENTATIONS WITH RESPECT TO THE TRACK (PER TM 3.3.2 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE FACILITIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. REFER TO THE CIVIL AND GRADE SEPARATION PLANS FOR PROPOSED LOCATIONS, ACCESS ROADS, AND TURNAROUNDS.
3. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND 2.8.2.
4. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
5. COMMUNICATION TOWER IS BASED ON RHON 100' MONOPOLE T100HA OR EQUIVALENT:

A) TOWER EMBEDMENT DEPTH ASSUMED TO BE APPROXIMATELY 25 FEET. TOWER BASE AND FOUNDATION ASSUMED TO BE 5 FEET IN DIAMETER.

B) THESE ASSUMPTIONS SHALL BE VALIDATED BY DESIGN FOR SOIL AND ENVIRONMENTAL CONDITIONS.
6. SEE DETAIL 1 ON TP-01030-A FOR ACCESS ROAD TYPICAL SECTION.
7. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.



PLAN



MF-TC-F1030-A.dgn
08-MAR-2016 4:37
p005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
J. CASTILLO
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

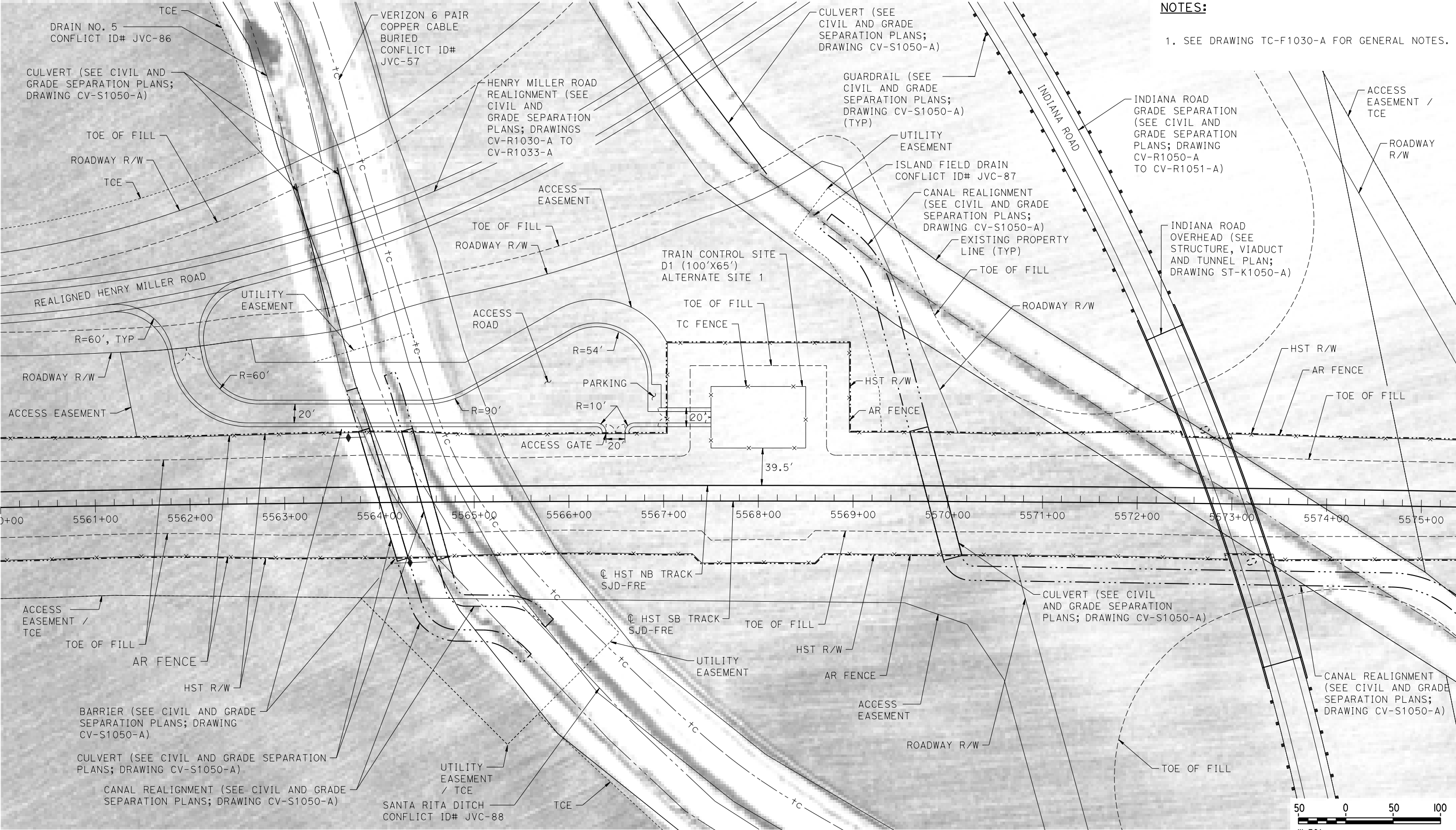


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D1 ALTERNATE SITE 2

CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1030-A
SCALE
AS SHOWN
SHEET NO.

MERCED COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

18-MAR-2016 09:41 MF-TC-F1050-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
J. CASTILLO
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

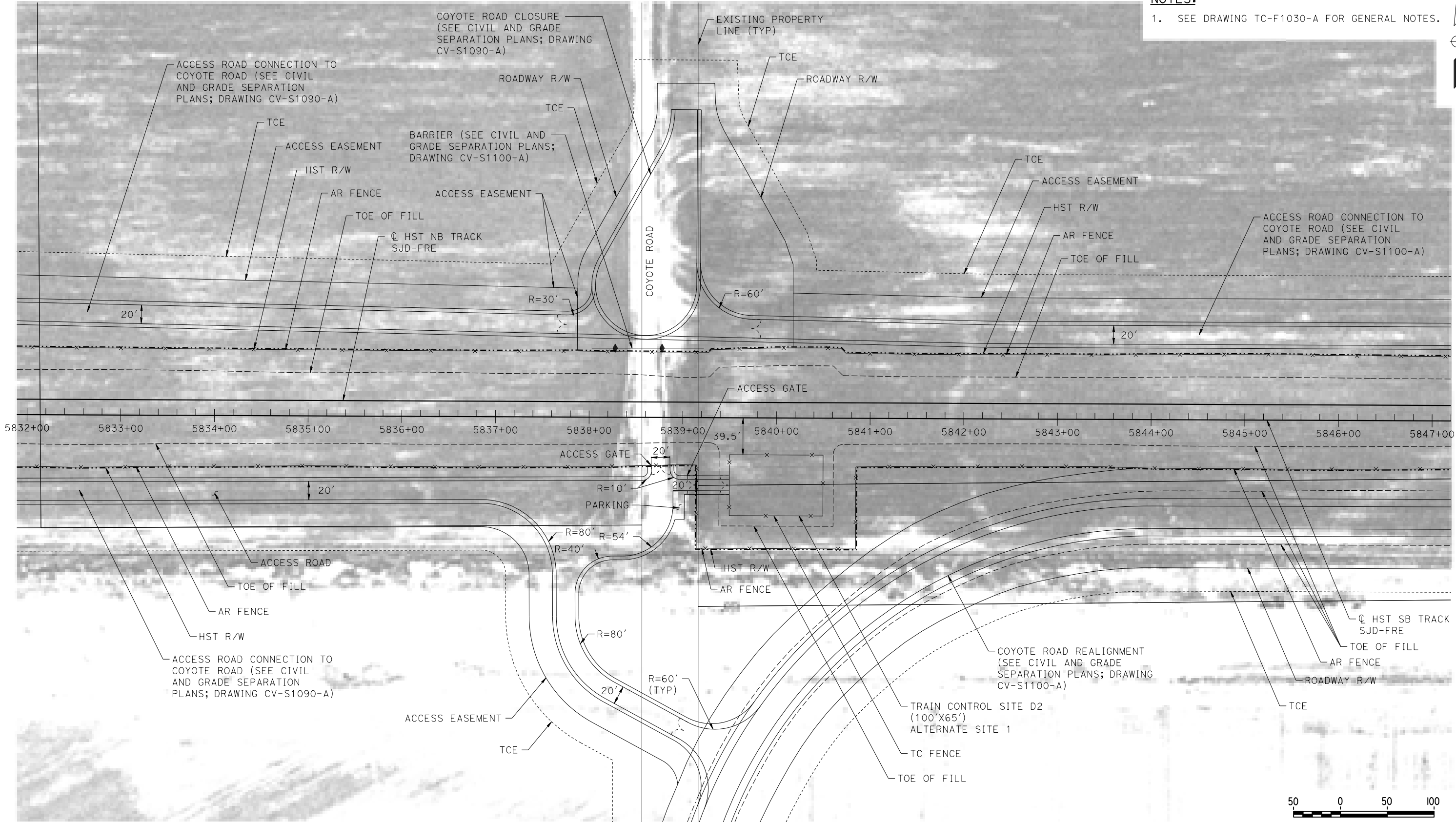


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D1 ALTERNATE SITE 1

CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1050-A
SCALE
AS SHOWN
SHEET NO.

MERCED COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

DESIGNED BY
A. GURA
DRAWN BY
J. CASTILLO
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

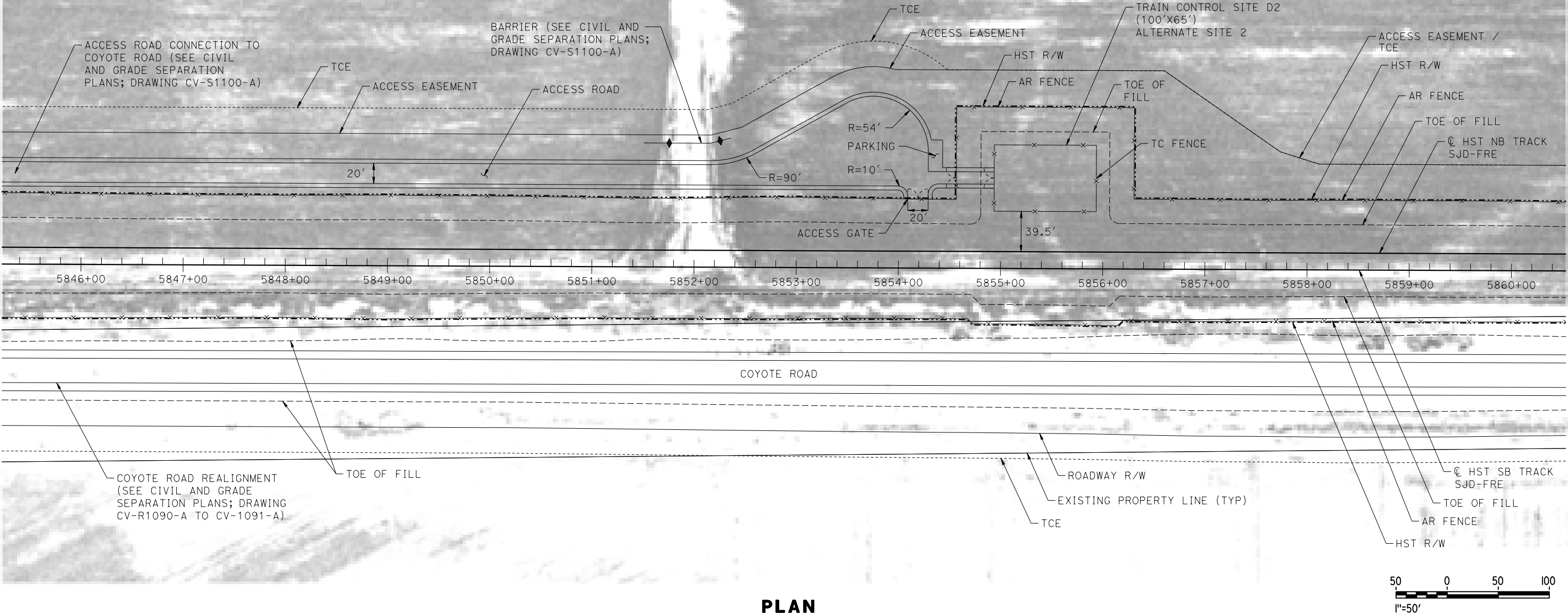


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D2 ALTERNATE SITE 1

CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1090-A
SCALE
AS SHOWN
SHEET NO.

MERCED COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

18-MAR-2016 09:43 MF-TC-F1100-A.dgn

00051330

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D2 ALTERNATE SITE 2

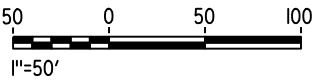
| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1100-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

- NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN



18-MAR-2016 09:44 MF-TC-F1150-A.dgn

00051330

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



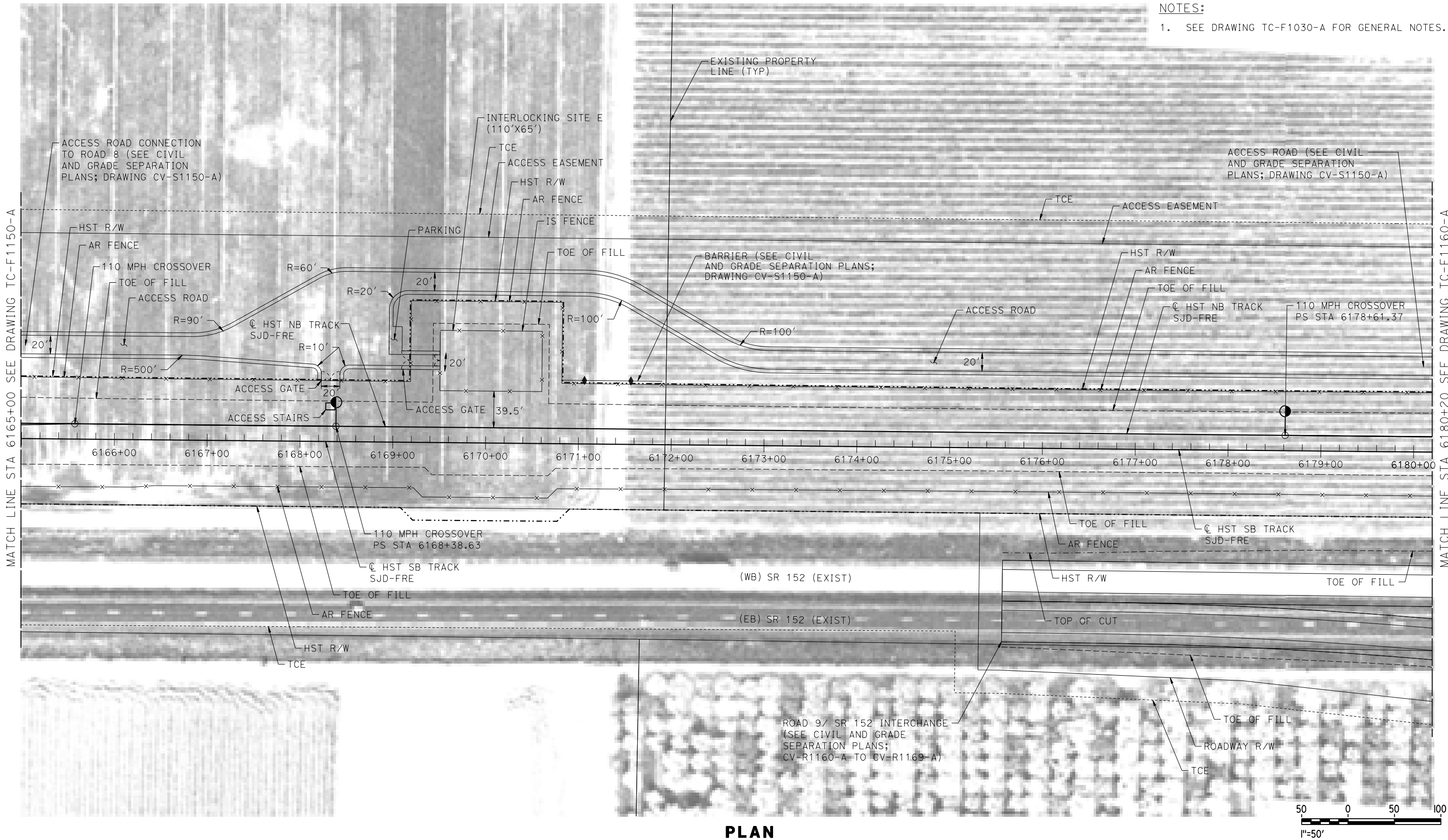
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6156+00

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1150-A |
| SCALE AS SHOWN |
| SHEET NO. |

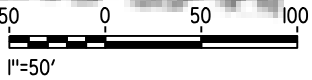
MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN



p005133g 18-MAR-2016 09:45 MF-TC-F1151-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY N. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

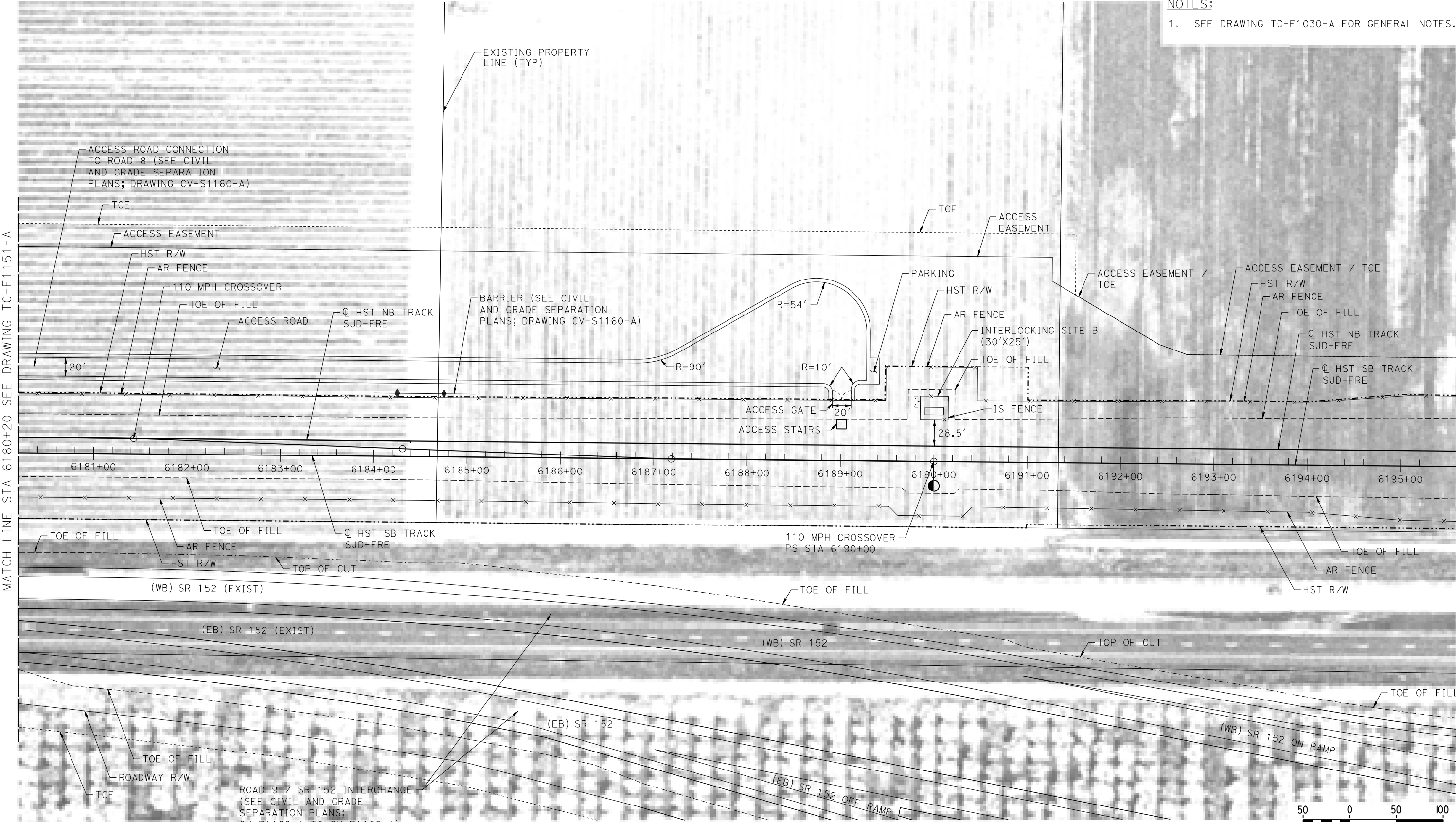


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E @ 6170+00

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1151-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

08-MAR-2016 4:43 MF-TC-F1160-A.dgn

REV DATE BY CHK APP DESCRIPTION

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
M. TACTAY
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

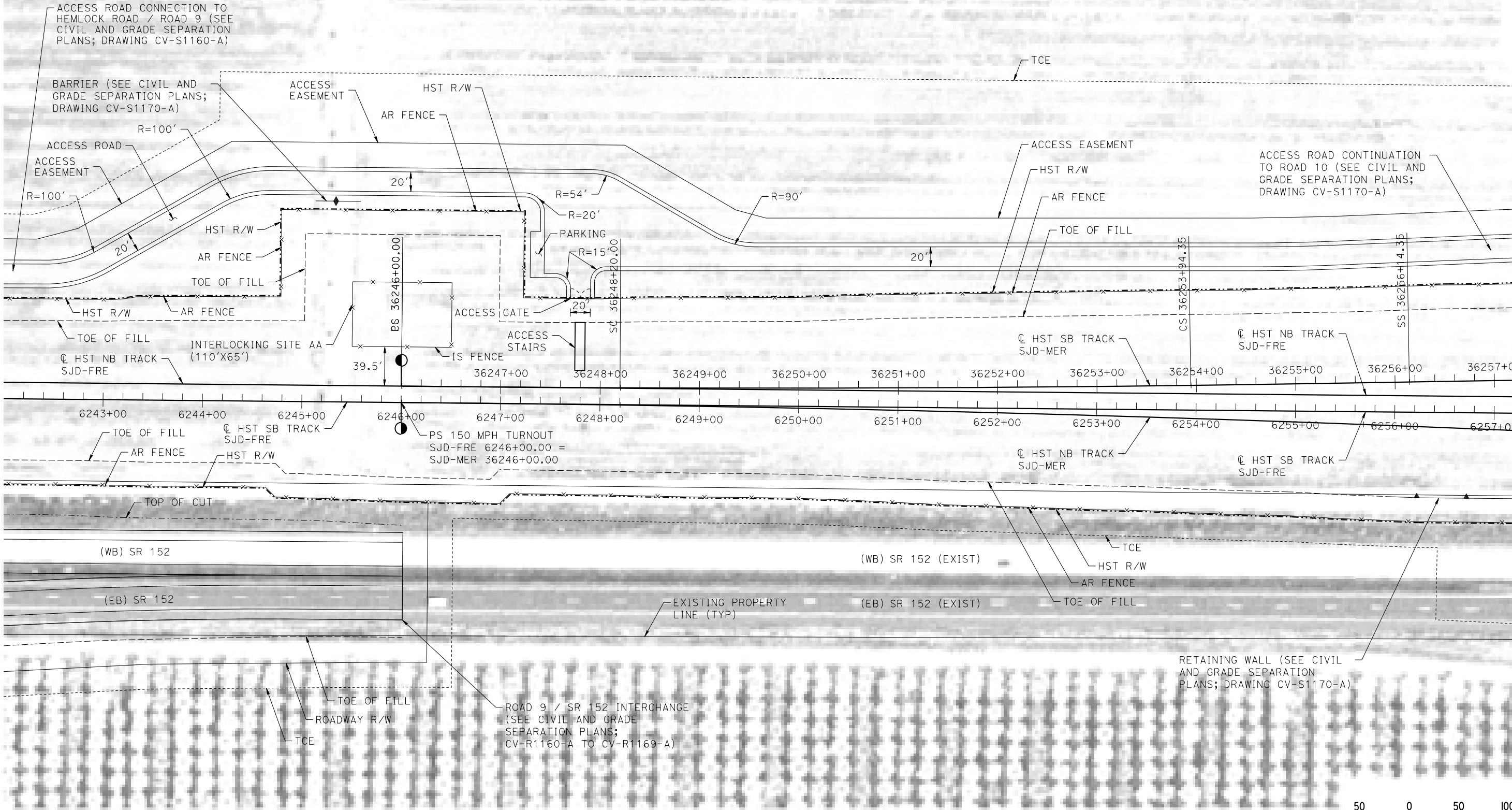


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6190+00

CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1160-A
SCALE
AS SHOWN
SHEET NO.

MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN



| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

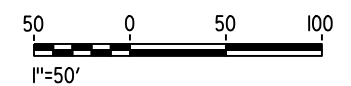
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 6246+00

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1170-A |
| SCALE AS SHOWN |
| SHEET NO. |

18-MAR-2016 09:46 MF-TC-F1170-A.dgn

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

| | |
|-------------|------------|
| DESIGNED BY | A. GURA |
| DRAWN BY | M. TACTAY |
| CHECKED BY | A. GURA |
| IN CHARGE | C. LEMLEY |
| DATE | 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

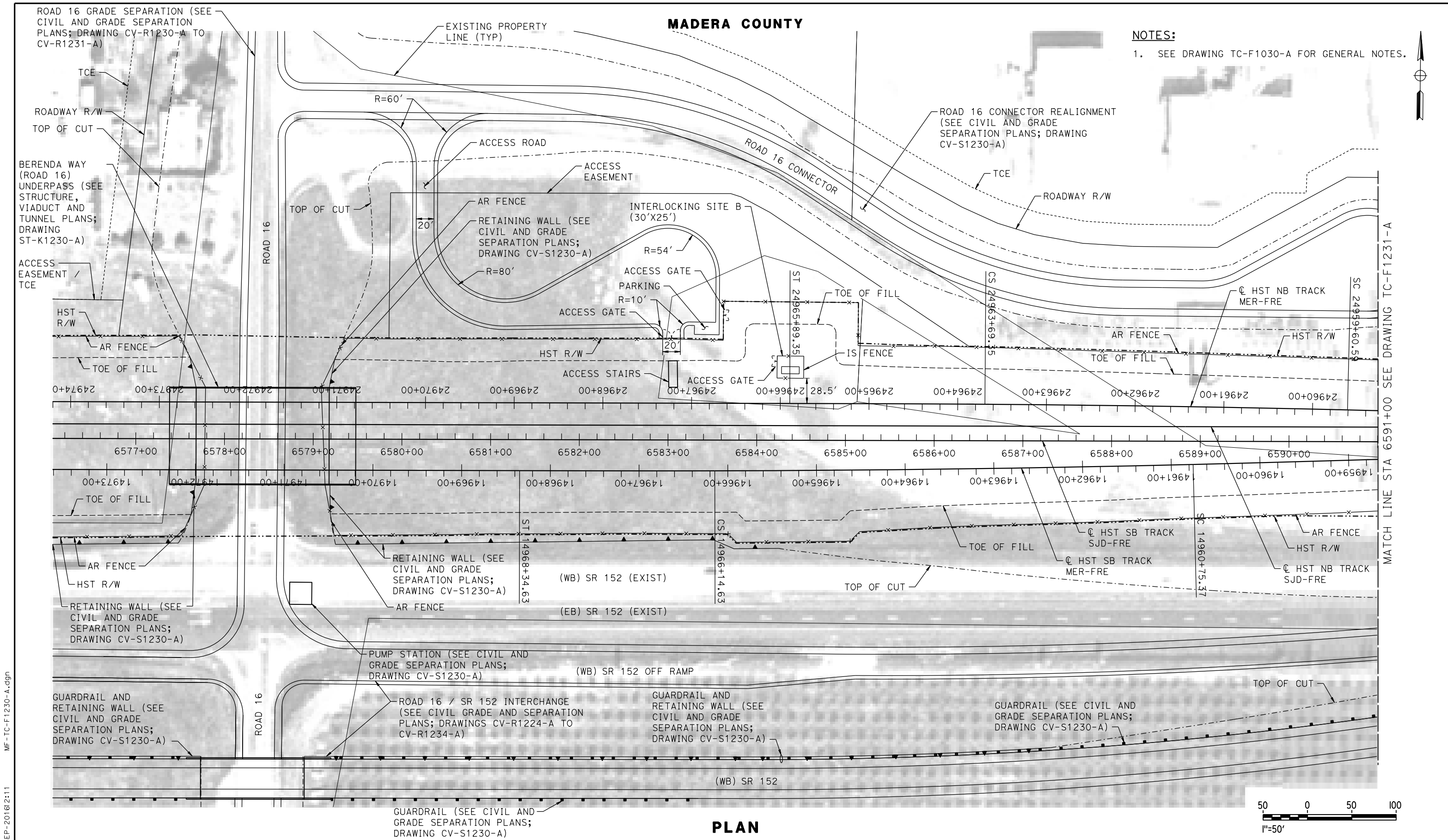
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6267+00

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1171-A |
| SCALE AS SHOWN |
| SHEET NO. |



MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.

ROAD 16 GRADE SEPARATION (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1230-A TO CV-R1231-A)

TCE
ROADWAY R/W
TOP OF CUT

BERENDA WAY (ROAD 16) UNDERPASS (SEE STRUCTURE, VIADUCT AND TUNNEL PLANS; DRAWING ST-K1230-A)

ACCESS EASEMENT / TCE

HST R/W
AR FENCE
TOE OF FILL

0+24974+00
1+24973+00
2+24972+00
3+24971+00
4+24970+00
5+24969+00
6+24968+00
7+24967+00
8+24966+00
9+24965+00
10+24964+00
11+24963+00
12+24962+00
13+24961+00
14+24960+00

15+6577+00
16+6578+00
17+6579+00
18+6580+00
19+6581+00
20+6582+00
21+6583+00
22+6584+00
23+6585+00
24+6586+00
25+6587+00
26+6588+00
27+6589+00
28+6590+00

29+14973+00
30+14972+00
31+14971+00
32+14970+00
33+14969+00
34+14968+00
35+14967+00
36+14966+00
37+14965+00
38+14964+00
39+14963+00
40+14962+00
41+14961+00
42+14960+00

43+14959+00
44+14958+00
45+14957+00
46+14956+00
47+14955+00
48+14954+00
49+14953+00
50+14952+00
51+14951+00
52+14950+00
53+14949+00
54+14948+00
55+14947+00
56+14946+00

57+14945+00
58+14944+00
59+14943+00
60+14942+00
61+14941+00
62+14940+00
63+14939+00
64+14938+00
65+14937+00
66+14936+00
67+14935+00
68+14934+00
69+14933+00
70+14932+00

71+14931+00
72+14930+00
73+14929+00
74+14928+00
75+14927+00
76+14926+00
77+14925+00
78+14924+00
79+14923+00
80+14922+00
81+14921+00
82+14920+00
83+14919+00
84+14918+00

85+14917+00
86+14916+00
87+14915+00
88+14914+00
89+14913+00
90+14912+00
91+14911+00
92+14910+00
93+14909+00
94+14908+00
95+14907+00
96+14906+00
97+14905+00
98+14904+00

99+14903+00
100+14902+00
101+14901+00
102+14900+00
103+14899+00
104+14898+00
105+14897+00
106+14896+00
107+14895+00
108+14894+00
109+14893+00
110+14892+00
111+14891+00
112+14890+00

113+14889+00
114+14888+00
115+14887+00
116+14886+00
117+14885+00
118+14884+00
119+14883+00
120+14882+00
121+14881+00
122+14880+00
123+14879+00
124+14878+00
125+14877+00
126+14876+00

127+14875+00
128+14874+00
129+14873+00
130+14872+00
131+14871+00
132+14870+00
133+14869+00
134+14868+00
135+14867+00
136+14866+00
137+14865+00
138+14864+00
139+14863+00
140+14862+00

141+14861+00
142+14860+00
143+14859+00
144+14858+00
145+14857+00
146+14856+00
147+14855+00
148+14854+00
149+14853+00
150+14852+00
151+14851+00
152+14850+00
153+14849+00
154+14848+00

155+14847+00
156+14846+00
157+14845+00
158+14844+00
159+14843+00
160+14842+00
161+14841+00
162+14840+00
163+14839+00
164+14838+00
165+14837+00
166+14836+00
167+14835+00
168+14834+00

169+14833+00
170+14832+00
171+14831+00
172+14830+00
173+14829+00
174+14828+00
175+14827+00
176+14826+00
177+14825+00
178+14824+00
179+14823+00
180+14822+00
181+14821+00
182+14820+00

183+14819+00
184+14818+00
185+14817+00
186+14816+00
187+14815+00
188+14814+00
189+14813+00
190+14812+00
191+14811+00
192+14810+00
193+14809+00
194+14808+00
195+14807+00
196+14806+00

197+14805+00
198+14804+00
199+14803+00
200+14802+00
201+14801+00
202+14800+00
203+14799+00
204+14798+00
205+14797+00
206+14796+00
207+14795+00
208+14794+00
209+14793+00
210+14792+00

211+14791+00
212+14790+00
213+14789+00
214+14788+00
215+14787+00
216+14786+00
217+14785+00
218+14784+00
219+14783+00
220+14782+00
221+14781+00
222+14780+00
223+14779+00
224+14778+00

225+14777+00
226+14776+00
227+14775+00
228+14774+00
229+14773+00
230+14772+00
231+14771+00
232+14770+00
233+14769+00
234+14768+00
235+14767+00
236+14766+00
237+14765+00
238+14764+00

239+14763+00
240+14762+00
241+14761+00
242+14760+00
243+14759+00
244+14758+00
245+14757+00
246+14756+00
247+14755+00
248+14754+00
249+14753+00
250+14752+00
251+14751+00
252+14750+00

253+14749+00
254+14748+00
255+14747+00
256+14746+00
257+14745+00
258+14744+00
259+14743+00
260+14742+00
261+14741+00
262+14740+00
263+14739+00
264+14738+00
265+14737+00
266+14736+00

267+14735+00
268+14734+00
269+14733+00
270+14732+00
271+14731+00
272+14730+00
273+14729+00
274+14728+00
275+14727+00
276+14726+00
277+14725+00
278+14724+00
279+14723+00
280+14722+00

281+14721+00
282+14720+00
283+14719+00
284+14718+00
285+14717+00
286+14716+00
287+14715+00
288+14714+00
289+14713+00
290+14712+00
291+14711+00
292+14710+00
293+14709+00
294+14708+00

295+14707+00
296+14706+00
297+14705+00
298+14704+00
299+14703+00
300+14702+00
301+14701+00
302+14700+00
303+14699+00
304+14698+00
305+14697+00
306+14696+00
307+14695+00
308+14694+00

309+14693+00
310+14692+00
311+14691+00
312+14690+00
313+14689+00
314+14688+00
315+14687+00
316+14686+00
317+14685+00
318+14684+00
319+14683+00
320+14682+00
321+14681+00
322+14680+00

323+14679+00
324+14678+00
325+14677+00
326+14676+00
327+14675+00
328+14674+00
329+14673+00
330+14672+00
331+14671+00
332+14670+00
333+14669+00
334+14668+00
335+14667+00
336+14666+00

337+14665+00
338+14664+00
339+14663+00
340+14662+00
341+14661+00
342+14660+00
343+14659+00
344+14658+00
345+14657+00
346+14656+00
347+14655+00
348+14654+00
349+14653+00
350+14652+00

351+14651+00
352+14650+00
353+14649+00
354+14648+00
355+14647+00
356+14646+00
357+14645+00
358+14644+00
359+14643+00
360+14642+00
361+14641+00
362+14640+00
363+14639+00
364+14638+00

365+14637+00
366+14636+00
367+14635+00
368+14634+00
369+14633+00
370+14632+00
371+14631+00
372+14630+00
373+14629+00
374+14628+00
375+14627+00
376+14626+00
377+14625+00
378+14624+00

379+14623+00
380+14622+00
381+14621+00
382+14620+00
383+14619+00
384+14618+00
385+14617+00
386+14616+00
387+14615+00
388+14614+00
389+14613+00
390+14612+00
391+14611+00
392+14610+00

393+14609+00
394+14608+00
395+14607+00
396+14606+00
397+14605+00
398+14604+00
399+14603+00
400+14602+00
401+14601+00
402+14600+00
403+14599+00
404+14598+00
405+14597+00
406+14596+00

407+14595+00
408+14594+00
409+14593+00
410+14592+00
411+14591+00
412+14590+00
413+14589+00
414+14588+00
415+14587+00
416+14586+00
417+14585+00
418+14584+00
419+14583+00
420+14582+00

421+14581+00
422+14580+00
423+14579+00
424+14578+00
425+14577+00
426+14576+00
427+14575+00
428+14574+00
429+14573+00
430+14572+00
431+14571+00
432+14570+00
433+14569+00
434+14568+00

435+14567+00
436+14566+00
437+14565+00
438+14564+00
439+14563+00
440+14562+00
441+14561+00
442+14560+00
443+14559+00
444+14558+00
445+14557+00
446+14556+00
447+14555+00
448+14554+00

449+14553+00
450+14552+00
451+14551+00
452+14550+00
453+14549+00
454+14548+00
455+14547+00
456+14546+00
457+14545+00
458+14544+00
459+14543+00
460+14542+00
461+14541+00
462+14540+00

463+14539+00
464+14538+00
465+14537+00
466+14536+00
467+14535+00
468+14534+00
469+14533+00
470+14532+00
471+14531+00
472+14530+00
473+14529+00
474+14528+00
475+14527+00
476+14526+00

477+14525+00
478+14524+00
479+14523+00
480+14522+00
481+14521+00
482+14520+00
483+14519+00
484+14518+00
485+14517+00
486+14516+00
487+14515+00
488+14514+00
489+14513+00
490+14512+00

491+14511+00
492+14510+00
493+14509+00
494+14508+00
495+14507+00
496+14506+00
497+14505+00
498+14504+00
499+14503+00
500+14502+00
501+14501+00
502+14500+00
503+14499+00
504+14498+00

505+14497+00
506+14496+00
507+14495+00
508+14494+00
509+14493+00
510+14492+00
511+14491+00
512+14490+00
513+14489+00
514+14488+00
515+14487+00
516+14486+00
517+14485+00
518+14484+00

519+14483+00
520+14482+00
521+14481+00
522+14480+00
523+14479+00
524+14478+00
525+14477+00
526+14476+00
527+14475+00
528+14474+00
529+14473+00
530+14472+00
531+14471+00
532+14470+00

533+14469+00
534+14468+00
535+14467+00
536+14466+00
537+14465+00
538+14464+00
539+14463+00
540+14462+00
541+14461+00
542+14460+00
543+14459+00
544+14458+00
545+14457+00
546+14456+00

547+14455+00
548+14454+00
549+14453+00
550+14452+00
551+14451+00
552+14450+00
553+14449+00
554+14448+00
555+14447+00
556+14446+00
557+14445+00
558+14444+00
559+14443+00
560+14442+00

561+14441+00
562+14440+00
563+14439+00
564+14438+00
565+14437+00
566+14436+00
567+14435+00
568+14434+00
569+14433+00
570+14432+00
571+14431+00
572+14430+00
573+14429+00
574+14428+00

575+14427+00
576+14426+00
577+14425+00
578+14424+00
579+14423+00
580+14422+00
581+14421+00
582+14420+00
583+14419+00
584+14418+00
585+14417+00
586+14416+00
587+14415+00
588+14414+00

589+14413+00
590+14412+00
591+14411+00
592+14410+00
593+14409+00
594+14408+00
595+14407+00
596+14406+00
597+14405+00
598+14404+00
599+14403+00
600+14402+00
601+14401+00
602+14400+00

603+14399+00
604+14398+00
605+14397+00
606+14396+00
607+14395+00
608+14394+00
609+14393+00
610+14392+00
611+14391+00
612+14390+00
613+14389+00
614+14388+00
615+14387+00
616+14386+00

617+14385+00
618+14384+00
619+14383+00
620+14382+00
621+14381+00
622+14380+00
623+14379+00
624+14378+00
625+14377+00
626+14376+00
627+14375+00
628+14374+00
629+14373+00
630+14372+00

631+14371+00
632+14370+00
633+14369+00
634+14368+00
635+14367+00
636+14366+00
637+14365+00
638+14364+00
639+14363+00
640+14362+00
641+14361+00
642+14360+00
643+14359+00
644+14358+00

645+14357+00
646+14356+00
647+14355+00
648+14354+00
649+14353+00
650+14352+00
651+14351+00
652+14350+00
653+14349+00
654+14348+00
655+14347+00
656+14346+00
657+14345+00
658+14344+00

659+14343+00
660+14342+00
661+14341+00
662+14340+00
663+14339+00
664+14338+00
665+14337+00
666+14336+00
667+14335+00
668+14334+00
669+14333+00
670+14332+00
671+14331+00
672+14330+00

673+14329+00
674+14328+00
675+14327+00
676+14326+00
677+14325+00
678+14324+00
679+14323+00
680+14322+00
681+14321+00
682+14320+00
683+14319+00
684+14318+00
685+14317+00
686+14316+00

687+14315+00
688+14314+00
689+14313+00
690+14312+00
691+14311+00
692+14310+00
693+14309+00
694+14308+00
695+14307+00
696+14306+00
697+14305+00
698+14304+00
699+14303+00
700+14302+00

701+14301+00
702+14300+00
703+14299+00
704+14298+00
705+14297+00
706+14296+00
707+14295+00
708+14294+00
709+14293+00
710+14292+00
711+14291+00
712+14290+00
713+14289+00
714+14288+00

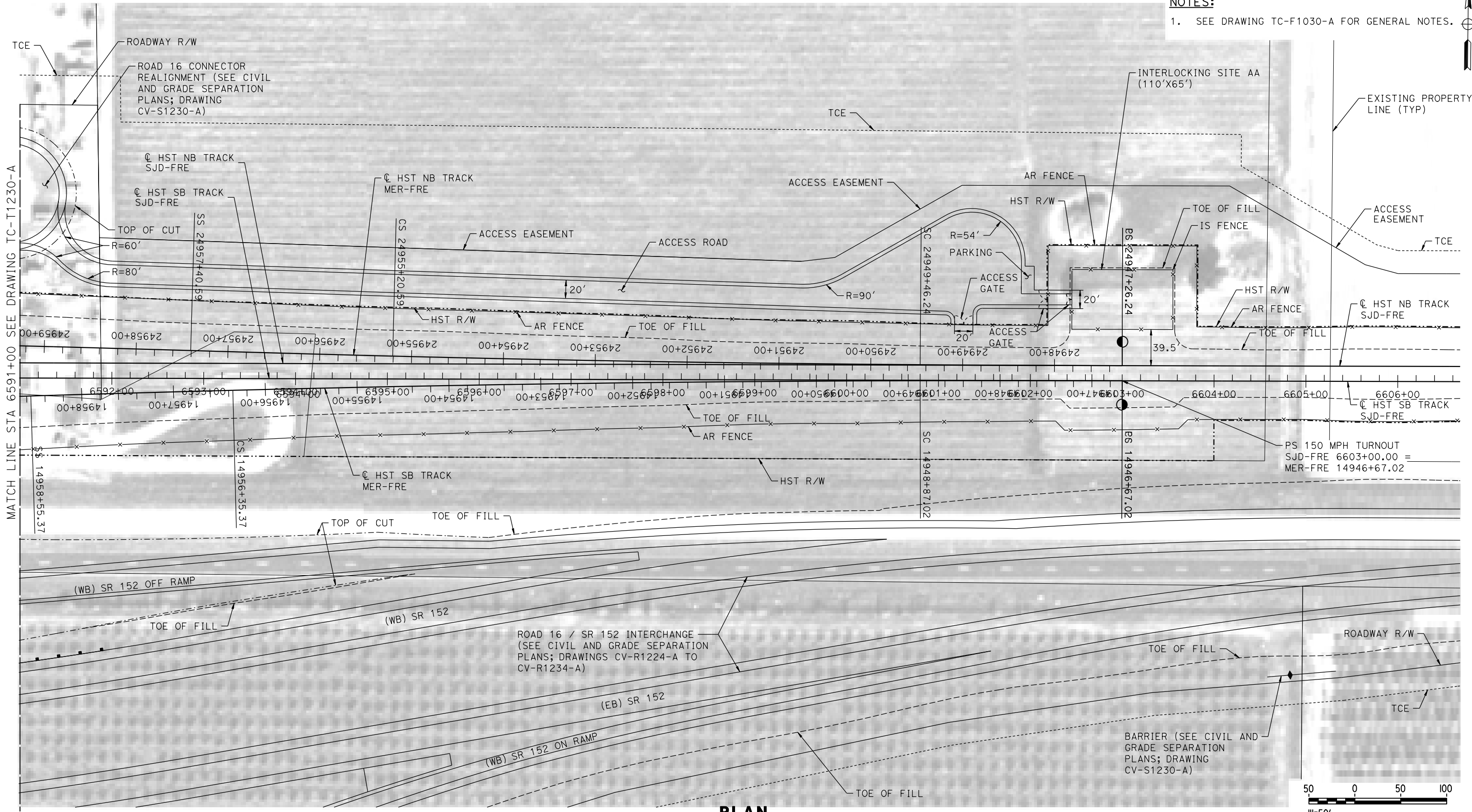
715+14287+00
716+14286+00
717+14285+00
718+14284+00
719+14283+00
720+14282+00
721+14281+00
722+14280+00
723+14279+00
724+14278+00
725+14277+00
726+14276+00
727+14275+00
728+14274+00

729+14273+00
730+14272+00
731+14271+00
732+14270+00
733+14269+00
734+14268+00
735+14267+00
736+14266+00
737+14265+00
738+14264+00
739+14263+00
740+

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

| | |
|-------------|------------|
| DESIGNED BY | A. GURA |
| DRAWN BY | M. TACTAY |
| CHECKED BY | K. MA |
| IN CHARGE | C. LEMLEY |
| DATE | 09/09/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

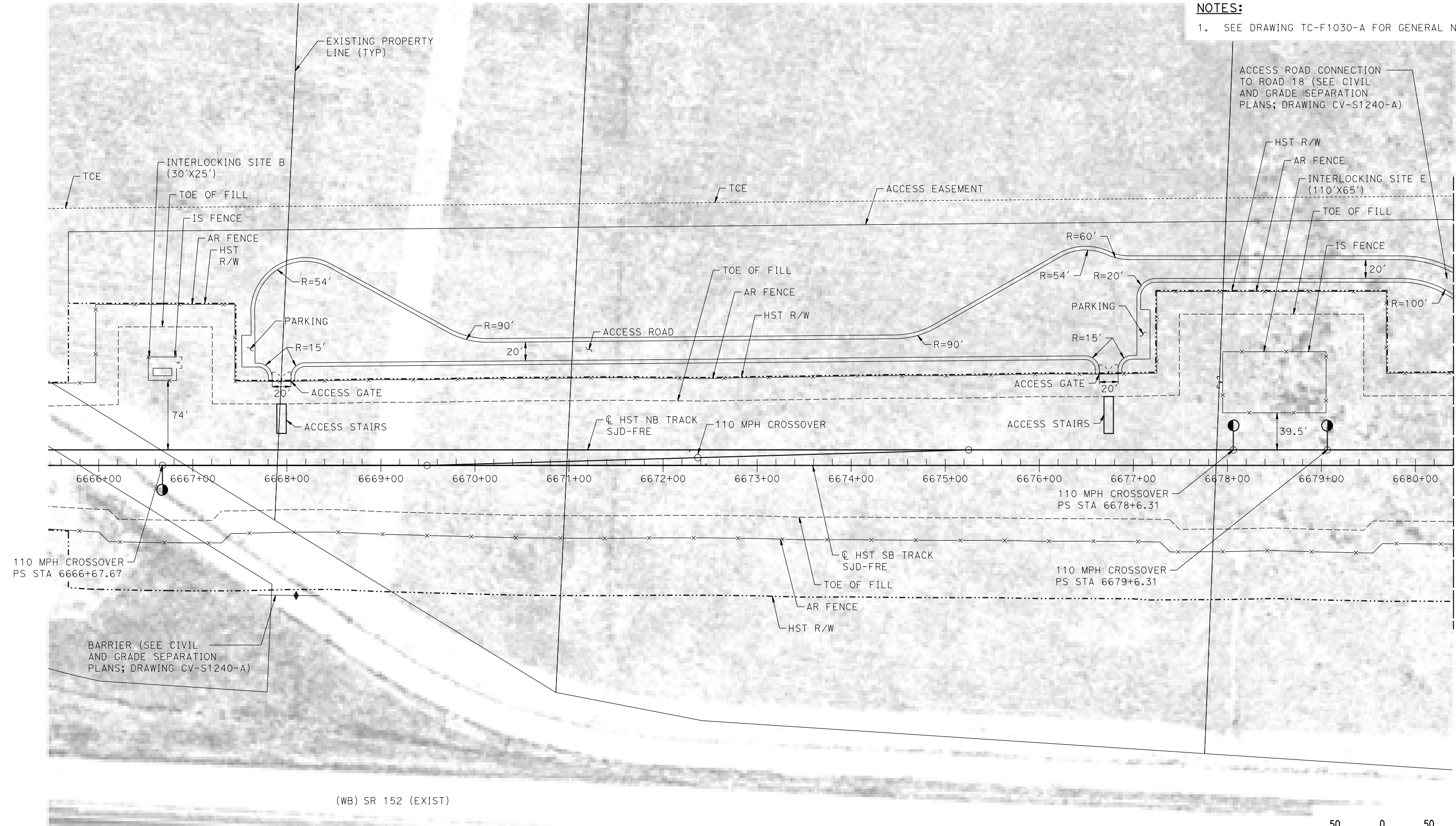


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 6603+00

| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TC-F1231-A |
| SCALE | AS SHOWN |
| SHEET NO. | |

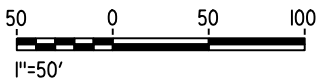
MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



MATCH LINE STA 6680+40 SEE DRAWING TC-F1250-A

PLAN



p005133g 18-MAR-2016 09:49 MF-TC-F1240-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

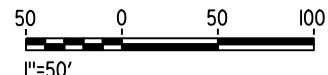
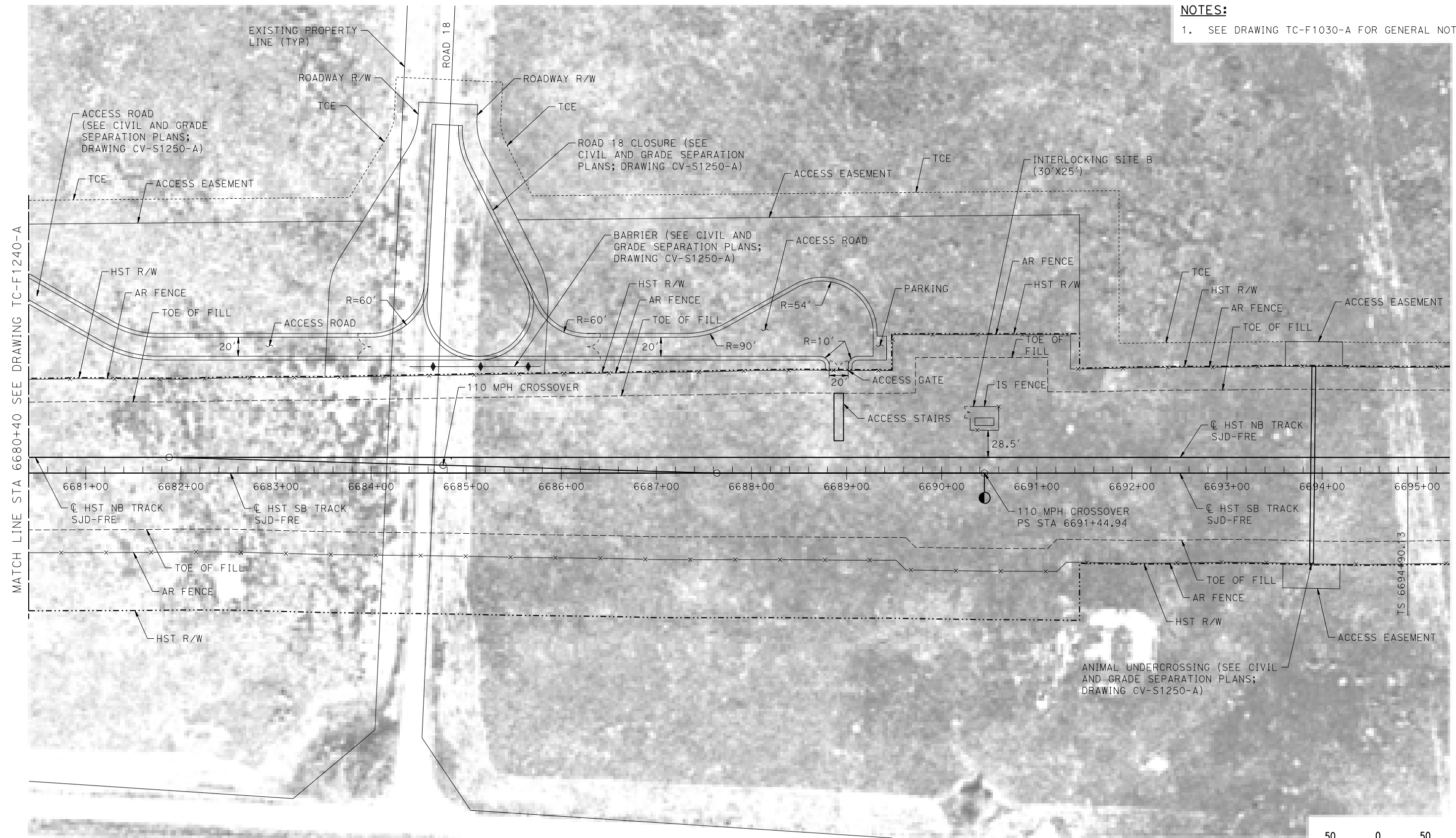


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6666+68 & SITE E @ 6678+50

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1240-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



08-MAR-2016 4:48 MF-TC-F1250-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
M. TACTAY
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

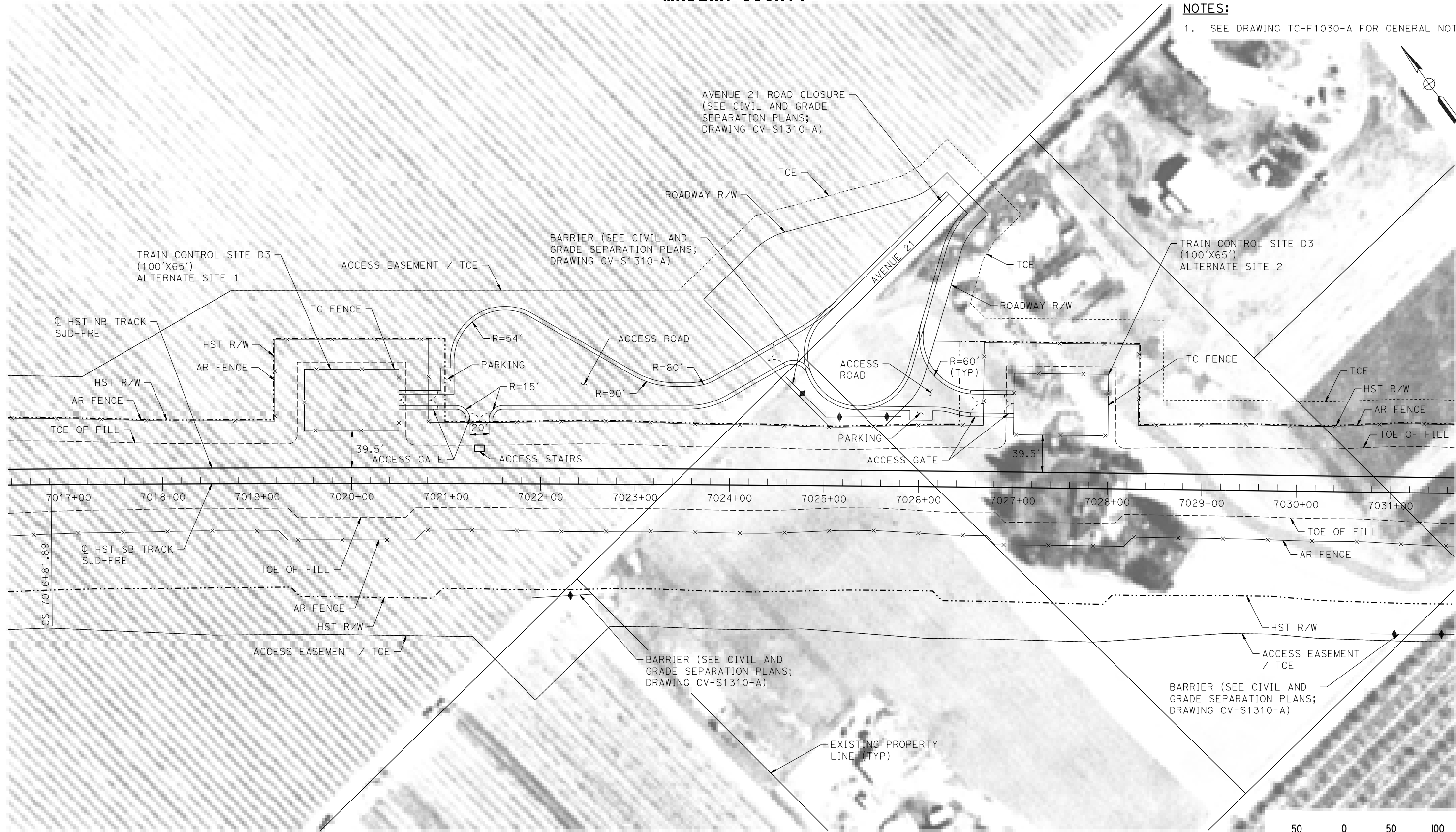


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6690+45

CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1250-A
SCALE
AS SHOWN
SHEET NO.

MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

18-MAR-2016 09:50 MF-TC-F1310-A.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

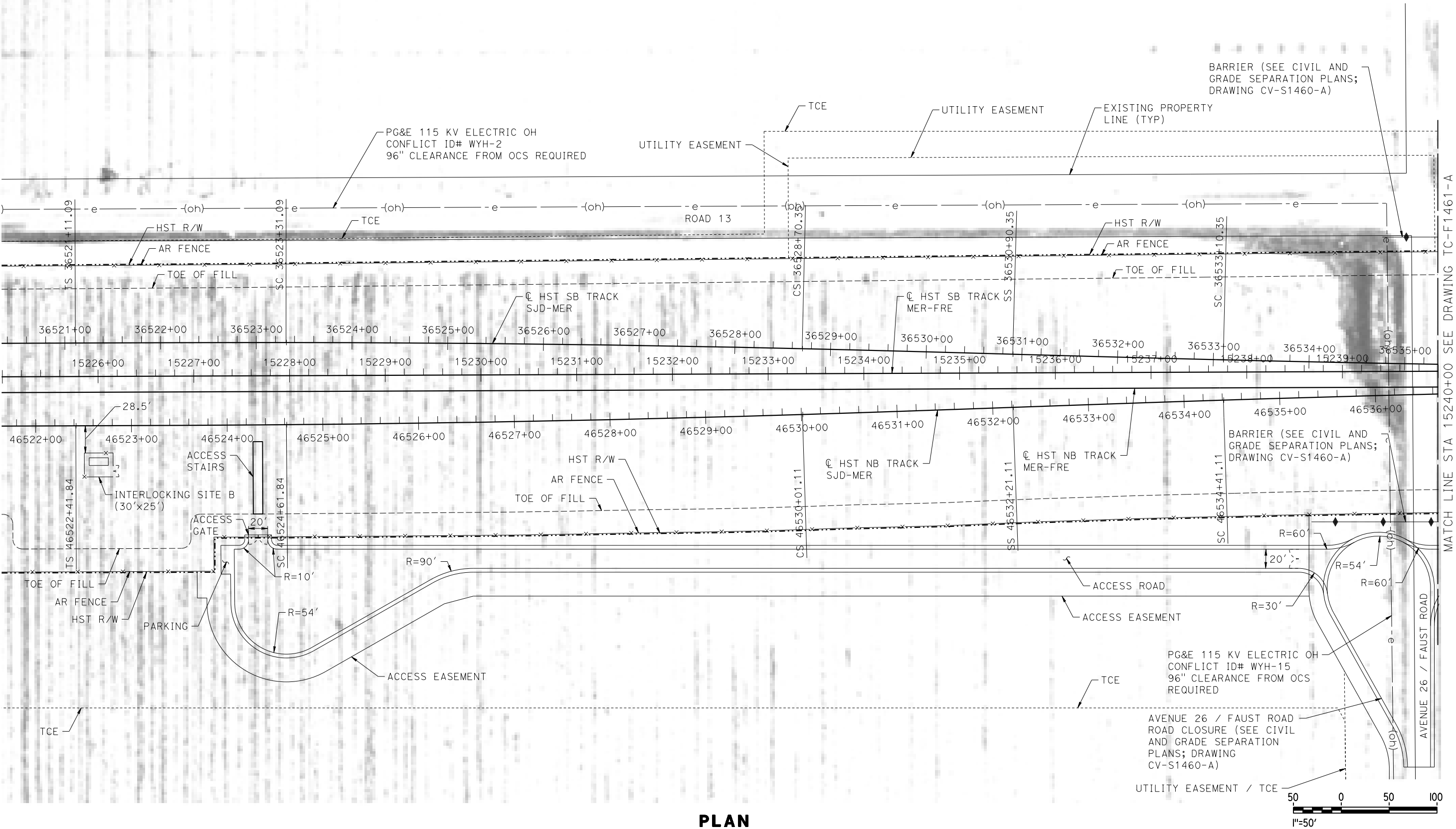


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1310-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

08-MAR-2016 16:41:50 MF-TC-F1460-A.dgn

0005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15226+00

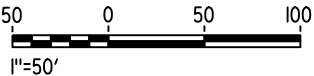
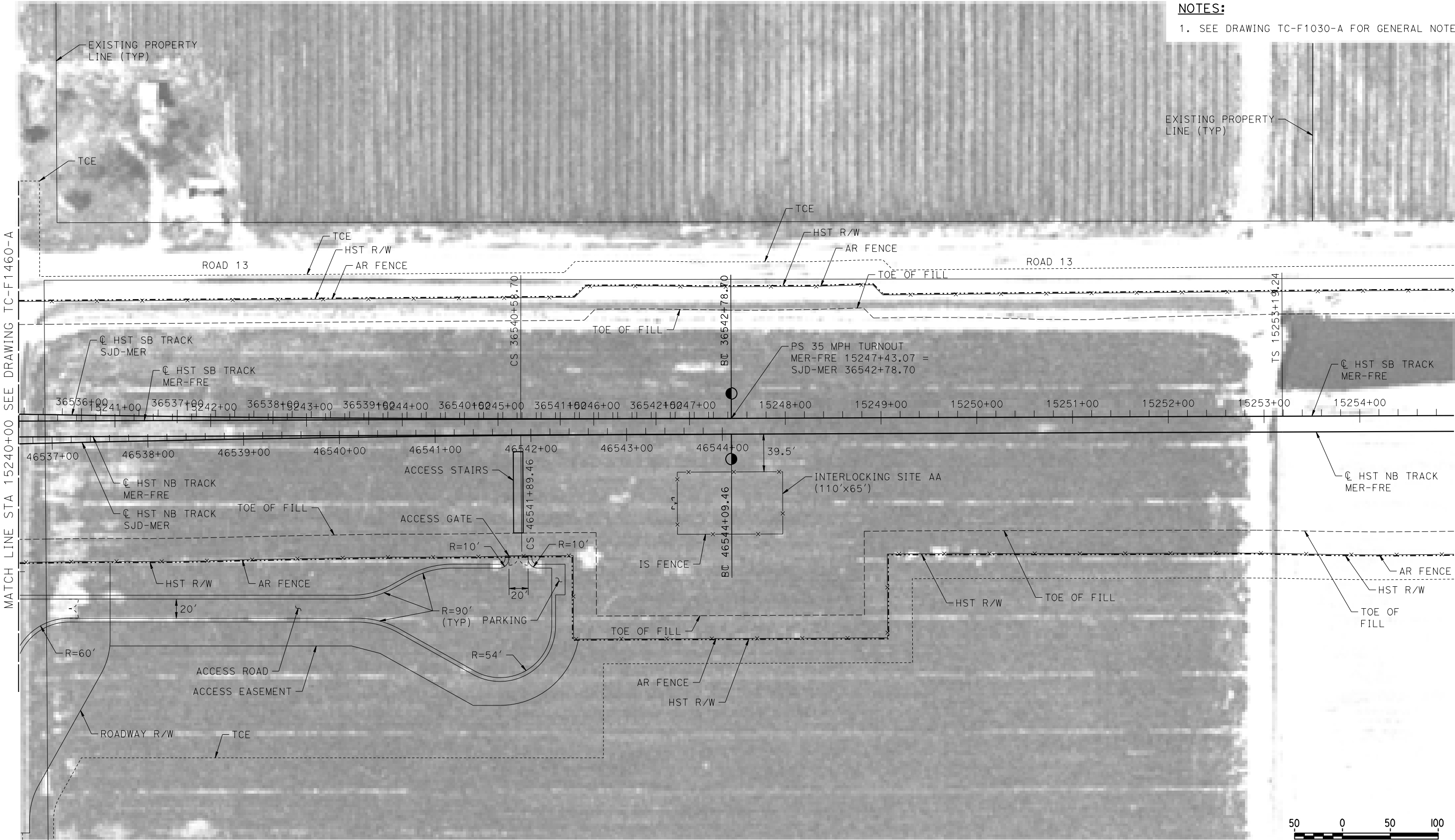
| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1460-A |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY



NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

MF-TC-F1461-A.dgn
08-MAR-2016 16:41:51
p005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

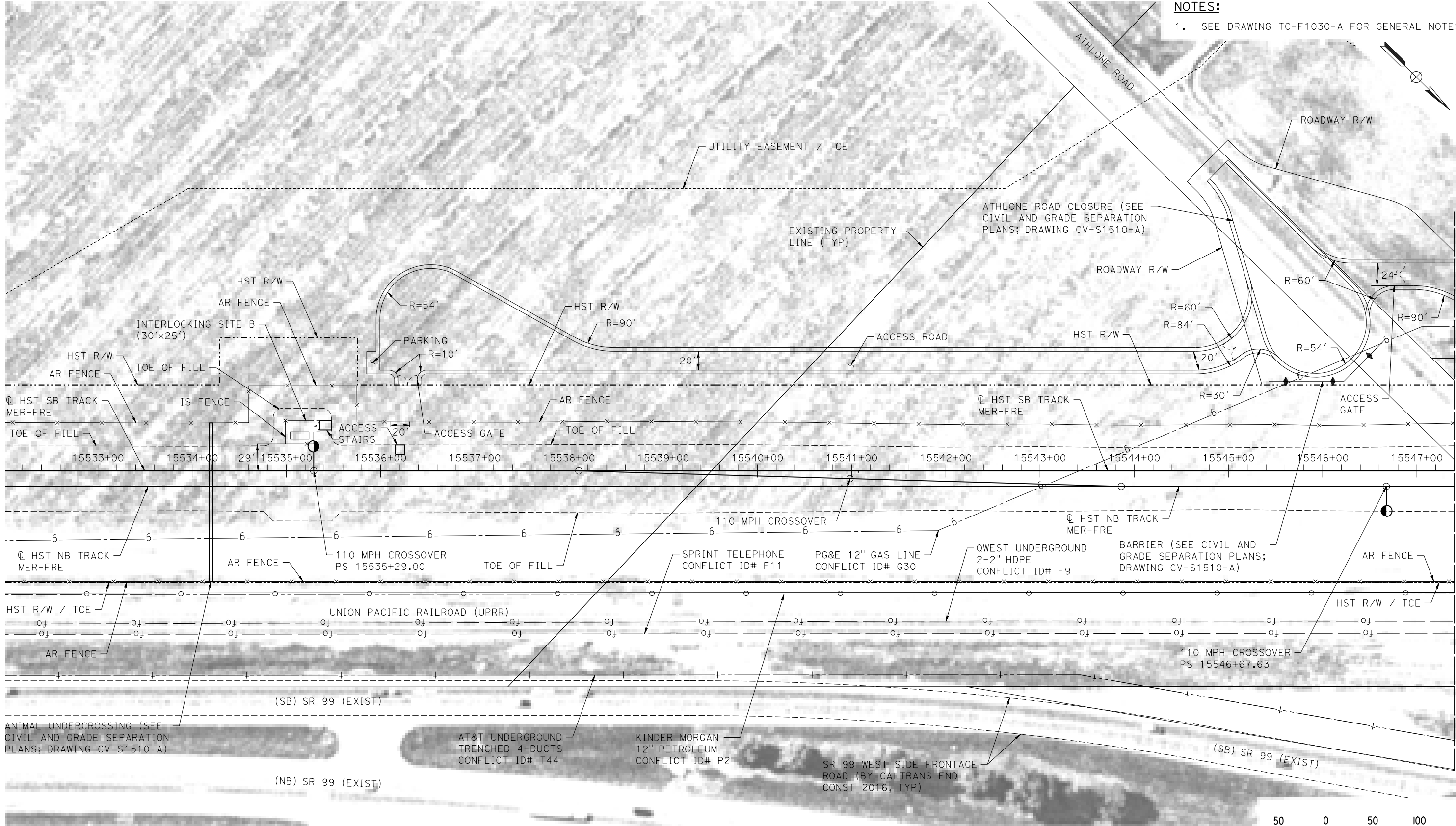


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 15247+50

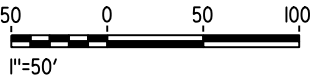
| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1461-A |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN



MF-TC-F1510-A.dgn
18-MAR-2016 15:25
p005133g

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



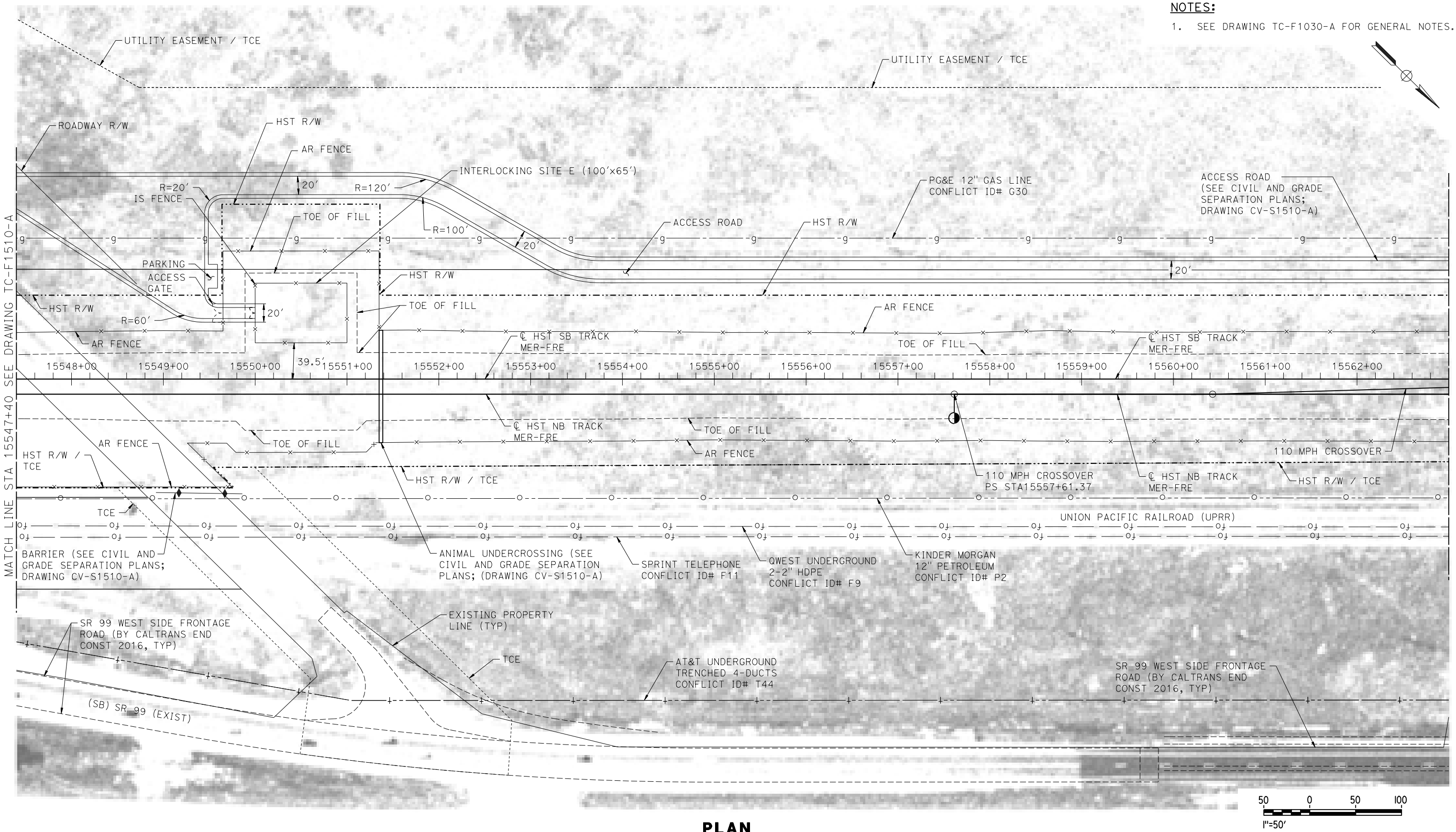
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15535+00

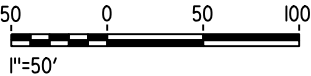
| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1510-A |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:
1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN



18-MAR-2016 09:52 MF-TC-F1511-A.dgn

REV DATE BY CHK APP DESCRIPTION

DESIGNED BY
A. GURA
DRAWN BY
M. TACTAY
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E @ 15550+50

CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1511-A
SCALE
AS SHOWN
SHEET NO.

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.

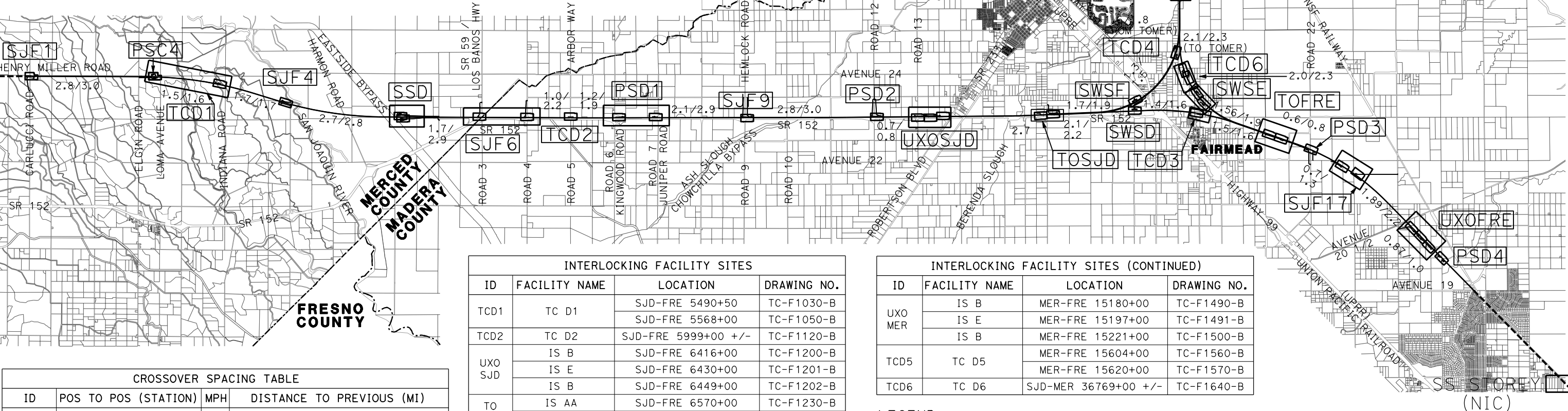


| | | | | | | | | | | | |
|-----|------|----|-----|-----|-------------|------------------------|---|--|---|---|---------------------------|
| | | | | | | DESIGNED BY A. GURA | RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION |  PARSONS |  <i>CALIFORNIA</i> <i>HIGH-SPEED RAIL AUTHORITY</i> | CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE AUTOMATIC TRAIN CONTROL SITE PLAN INTERLOCKING SITE B @ 15569+00 | CONTRACT NO. HSR08-05 |
| | | | | | | DRAWN BY M. TACTAY | | | | | DRAWING NO. TC-F1520-A |
| | | | | | | CHECKED BY A. GURA | | | | | SCALE AS SHOWN |
| | | | | | | IN CHARGE C. LEMLEY | | | | | SHEET NO. |
| | | | | | | DATE 03/18/2016 | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION | | | | | | |

| TRACTION POWER FACILITY SITES | | |
|-------------------------------|----------------------|-------------|
| FACILITY NAME | LOCATION | DRAWING NO. |
| PS C4 | SJD-FRE 5486+00 +/- | TP-01030-B |
| SS D | SJD-FRE 5790+00 | TP-01090-B |
| | SJD-FRE 5793+00 | TP-01091-B |
| PS D1 | SJD-FRE 6064+00 | TP-01130-B |
| | SJD-FRE 6099+00 | TP-01140-B |
| PS D2 | SJD-FRE 6375+00 +/- | TP-01190-B |
| SWS D | SJD-FRE 6685+00 +/- | TP-01250-B |
| PS D3 | SJD-FRE 6905+00 +/- | TP-01280-B |
| PS D4 | SJD-FRE 7115+00 +/- | TP-01320-B |
| SWS E | MER-FRE 14819+50 | TP-01420-B |
| | MER-FRE 14837+50 | TP-01430-B |
| PS E1 | MER-FRE 15081+00 +/- | TP-01470-B |
| PS E2 | MER-FRE 15280+00 +/- | TP-01510-B |
| SS E | MER-FRE 15465+00 | TP-01540-B |
| | MER-FRE 15478+00 | TP-01541-B |
| SWS F | SJD-MER 36688+00 +/- | TP-01630-B |

| STANDALONE RADIO SITES | | | |
|------------------------|---------------------|-------------|--|
| FACILITY NAME | LOCATION | DRAWING NO. | |
| SJF 1 | SJD-FRE 5339+50 | CO-F1010-B | |
| SJF 4 | SJD-FRE 5645+00 | CO-F1060-B | |
| SJF 6 | SJD-FRE 5885+00 | CO-F1100-B | |
| | SJD-FRE 5942+00 | CO-F1110-B | |
| SJF 9 | SJD-FRE 6217+00 +/- | CO-F1160-B | |
| SJF 17 | SJD-FRE 6950+00 | CO-F1290-B | |
| | SJD-FRE 6967+00 | CO-F1300-B | |
| MF 7 | MER-FRE 15364+00 | CO-F1520-B | |
| | MER-FRE 15399+50 | CO-F1530-B | |

| MECHANICAL FACILITY SITE | | |
|--------------------------|------------------|-------------|
| FACILITY NAME | LOCATION | DRAWING NO. |
| ME 1 | MER-FRE 15443+00 | ME-S1540-B |



| CROSSOVER SPACING TABLE | | | |
|-------------------------|----------------------|-----|-----------------------------------|
| ID | POS TO POS (STATION) | MPH | DISTANCE TO PREVIOUS (MI) |
| UXO SJV | 5114+03 TO 5156+81 | 110 | NIC |
| UXO SJD | 6416+00 TO 6449+00 | 110 | 23.85 (UXO SJV) |
| UXO FRE | 7066+00 TO 7099+00 | 110 | 11.65 (UXO SJD) & 13.19 (UXO MER) |
| UXO MER | 15180+00 TO 15221+00 | 110 | 11.71 (UXO SJD) & 13.19 (UXO FRE) |

| TURNOUT SPACING TABLE | | | |
|-----------------------|------------------|-----|---------------------------------|
| ID | POS (STATION) | MPH | DISTANCE TO NEAREST XO/UXO (MI) |
| TO SJD | SJD-FRE 6570+00 | 150 | 0.95 (SJD) |
| TO FRE | SJD-FRE 6868+51 | 150 | 3.71 (FRE) |
| TO MER | MER-FRE 14979+98 | 150 | 3.79 (MER) |

| INTERLOCKING FACILITY SITES | | | |
|-----------------------------|---------------|---------------------|-------------|
| ID | FACILITY NAME | LOCATION | DRAWING NO. |
| TCD1 | TC D1 | SJD-FRE 5490+50 | TC-F1030-B |
| | | SJD-FRE 5568+00 | TC-F1050-B |
| TCD2 | TC D2 | SJD-FRE 5999+00 +/- | TC-F1120-B |
| UXO SJD | IS B | SJD-FRE 6416+00 | TC-F1200-B |
| | IS E | SJD-FRE 6430+00 | TC-F1201-B |
| | IS B | SJD-FRE 6449+00 | TC-F1202-B |
| TO SJD | IS AA | SJD-FRE 6570+00 | TC-F1230-B |
| | IS B | SJD-FRE 6591+50 | TC-F1231-B |
| TCD3 | TC D3 | SJD-FRE 6765+00 +/- | TC-F1260-B |
| | | SJD-FRE 6846+80 | TC-F1270-B |
| TO FRE | IS AA | SJD-FRE 6868+50 | TC-F1280-B |
| | IS B | SJD-FRE 7066+00 | TC-F1310-B |
| UXO FRE | IS E | SJD-FRE 7077+00 +/- | TC-F1320-B |
| | IS B | SJD-FRE 7099+00 | TC-F1321-B |
| TCD4 | TC D4 | MER-FRE 14858+00 | TC-F1430-B |
| | | MER-FRE 14868+00 | TC-F1431-B |
| TO MER | IS B | MER-FRE 14958+30 | TC-F1450-B |
| | IS AA | MER-FRE 14980+00 | TC-F1451-B |

| INTERLOCKING FACILITY SITES (CONTINUED) | | | |
|---|---------------|----------------------|-------------|
| ID | FACILITY NAME | LOCATION | DRAWING NO. |
| UXO MER | IS B | MER-FRE 15180+00 | TC-F1490-B |
| | IS E | MER-FRE 15197+00 | TC-F1491-B |
| | IS B | MER-FRE 15221+00 | TC-F1500-B |
| TCD5 | TC D5 | MER-FRE 15604+00 | TC-F1560-B |
| | | MER-FRE 15620+00 | TC-F1570-B |
| TCD6 | TC D6 | SJD-MER 36769+00 +/- | TC-F1640-B |

LEGEND:

PSC4

2.4/2.9

FRE

IS

ME

MER

NIC

PS

SJD

FACILITY (SEE TABLES)

MIN/MAX SPACING IN MILES BETWEEN FACILITIES

FRESNO

INTERLOCKING SITE

MECHANICAL SITE

MERCED

NOT IN CONTRACT

PARALLELING STATION, POINT OF SWITCH

SAN JOSE DIRIDON

SJV

SRS

SS

SWS

TC

TO

TPF

UXO

SAN JOAQUIN VALLEY

STANDALONE RADIO SITE

SUBSTATION

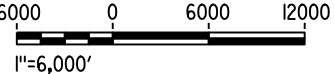
SWITCHING STATION

TRAIN CONTROL

TURNOUT

TRACTION POWER FACILITY

UNIVERSAL CROSSOVER



08-MAR-2016 11:29 MF-TP-B4001-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



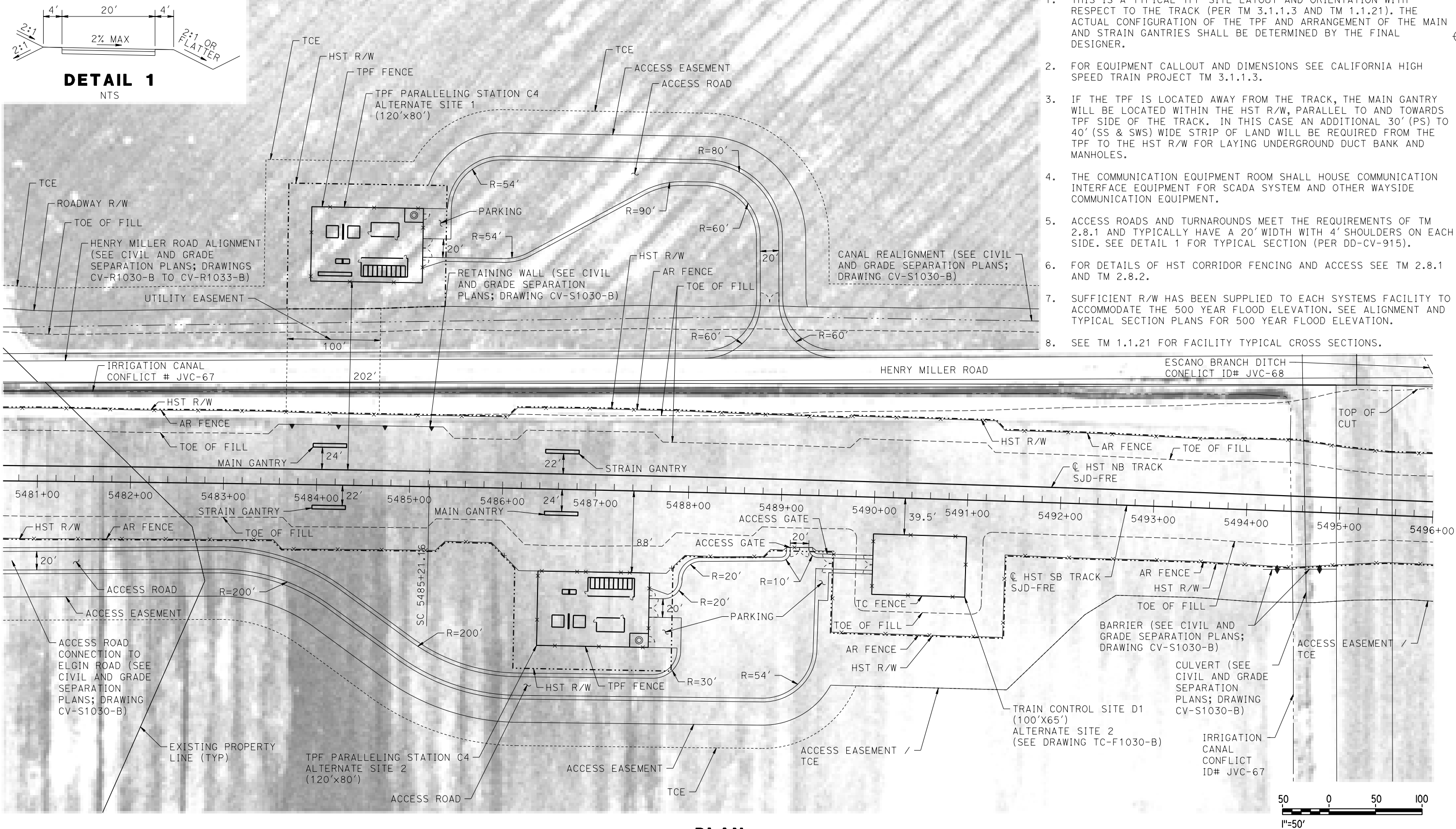
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
SYSTEMS FACILITIES KEY PLAN
SHEET 1 OF 1

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-B4001-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

GENERAL NOTES:

1. THIS IS A TYPICAL TPF SITE LAYOUT AND ORIENTATION WITH RESPECT TO THE TRACK (PER TM 3.1.1.3 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE TPF AND ARRANGEMENT OF THE MAIN AND STRAIN GANTRIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. FOR EQUIPMENT CALLOUT AND DIMENSIONS SEE CALIFORNIA HIGH SPEED TRAIN PROJECT TM 3.1.1.3.
3. IF THE TPF IS LOCATED AWAY FROM THE TRACK, THE MAIN GANTRY WILL BE LOCATED WITHIN THE HST R/W, PARALLEL TO AND TOWARDS TPF SIDE OF THE TRACK. IN THIS CASE AN ADDITIONAL 30' (PS) TO 40' (SS & SWS) WIDE STRIP OF LAND WILL BE REQUIRED FROM THE TPF TO THE HST R/W FOR LAYING UNDERGROUND DUCT BANK AND MANHOLES.
4. THE COMMUNICATION EQUIPMENT ROOM SHALL HOUSE COMMUNICATION INTERFACE EQUIPMENT FOR SCADA SYSTEM AND OTHER WAYSIDE COMMUNICATION EQUIPMENT.
5. ACCESS ROADS AND TURNAROUNDS MEET THE REQUIREMENTS OF TM 2.8.1 AND TYPICALLY HAVE A 20' WIDTH WITH 4' SHOULDERS ON EACH SIDE. SEE DETAIL 1 FOR TYPICAL SECTION (PER DD-CV-915).
6. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND TM 2.8.2.
7. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
8. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.



PLAN

18-MAR-2016 01:56 MF-TP-01030-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

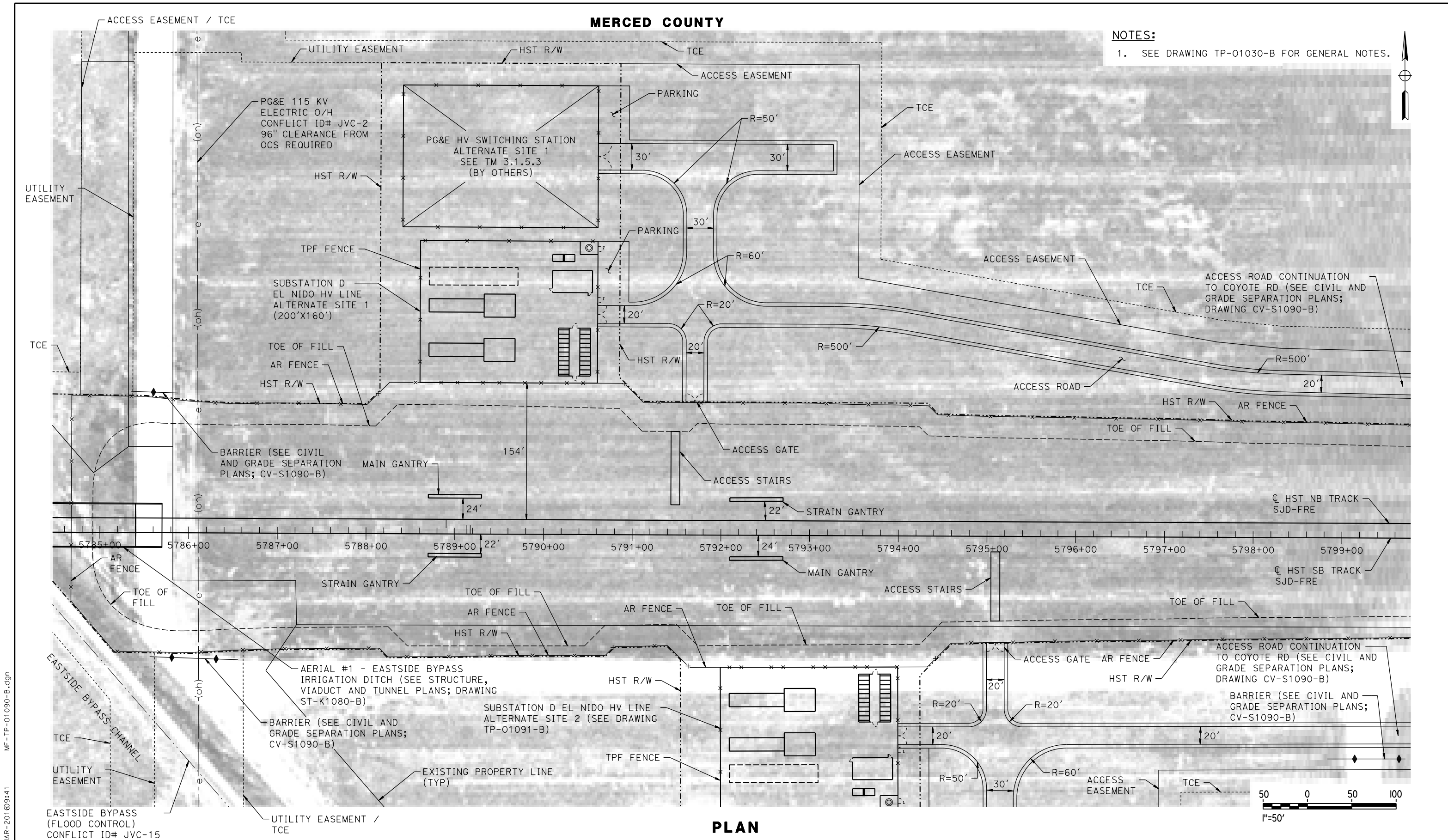
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

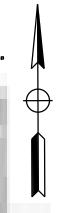


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION C4 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01030-B |
| SCALE AS SHOWN |
| SHEET NO. |



NOTES:
1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
J. CASTILLO
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

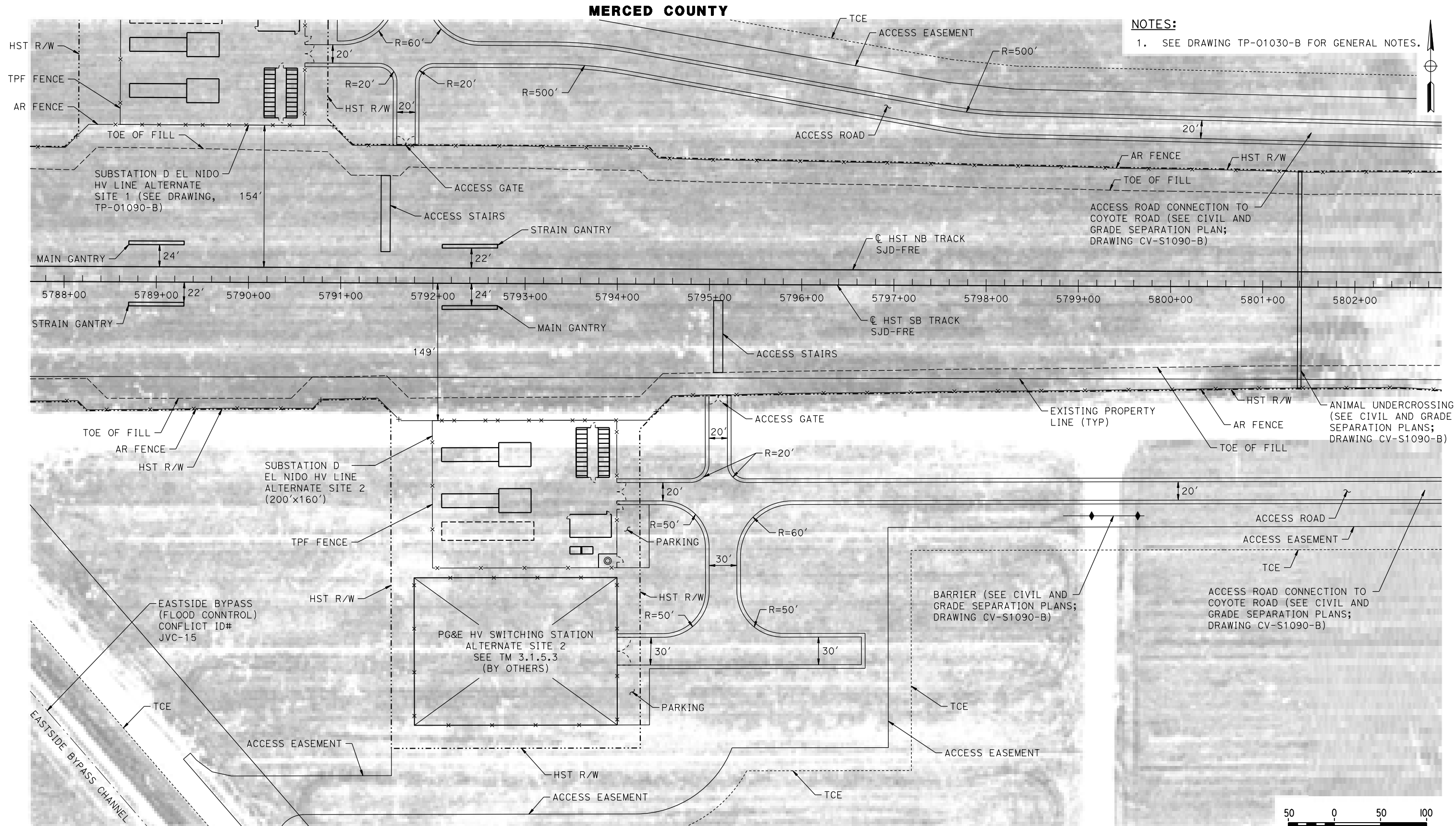


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION D (EL NIDO) ALTERNATE SITE 1

CONTRACT NO.
HSR08-05
DRAWING NO.
TP-01090-B
SCALE
AS SHOWN
SHEET NO.

18-MAR-2016 09:41 MF-TP-01091-B.dgn

0005133A



PLAN

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

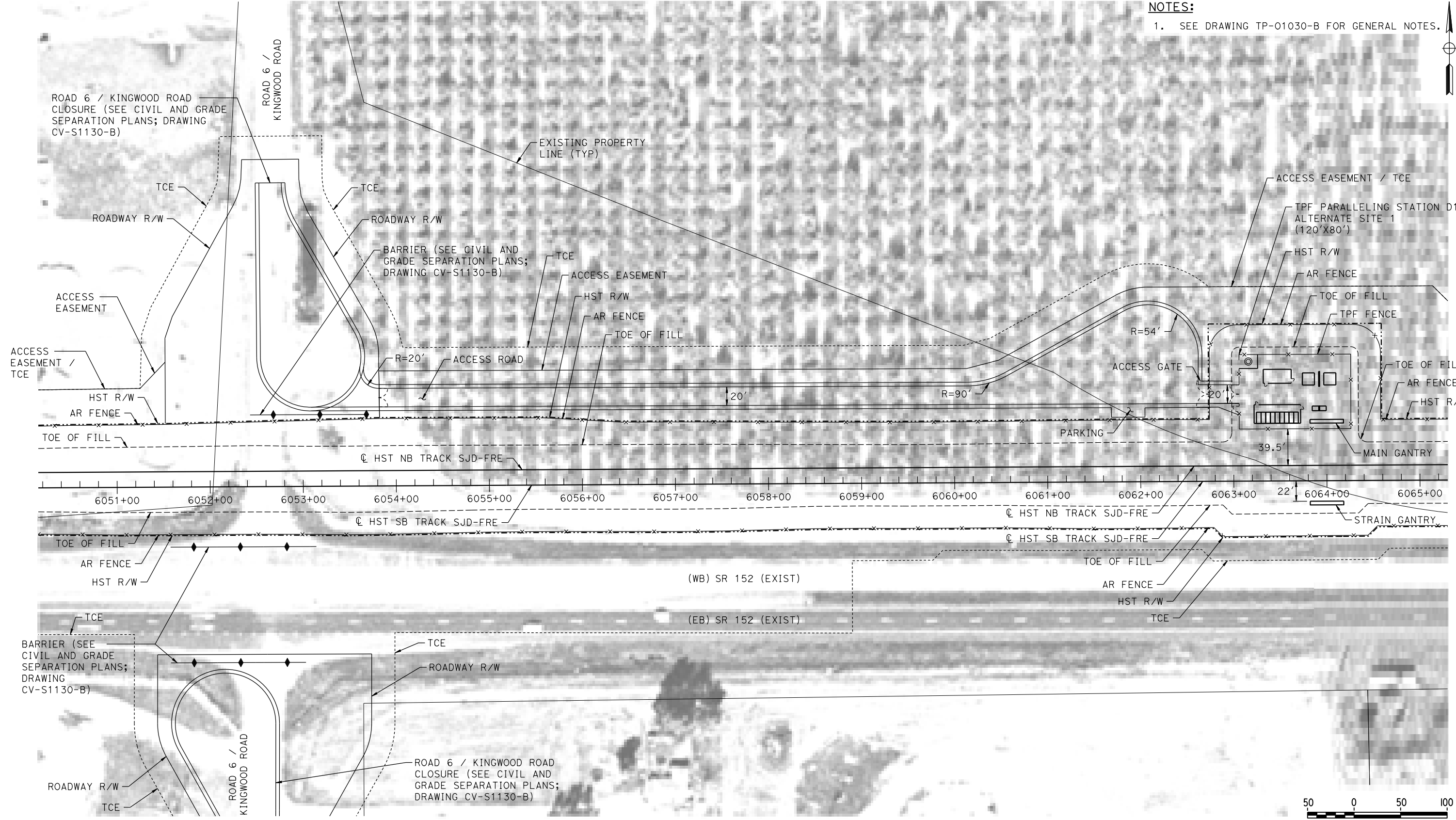
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION D (EL NIDO) ALTERNATE SITE 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01091-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

08-MAR-2016 1:31 MF-TP-01130-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D1 ALTERNATE SITE 1

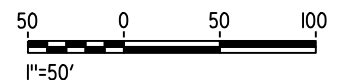
CONTRACT NO.
HSR08-05

DRAWING NO.
TP-01130-B

SCALE
AS SHOWN

SHEET NO.

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

| | |
|-------------|-------------|
| DESIGNED BY | A. GURA |
| DRAWN BY | J. CASTILLO |
| CHECKED BY | A. GURA |
| IN CHARGE | C. LEMLEY |
| DATE | 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D1 ALTERNATE SITE 2

| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TP-01140-B |
| SCALE | AS SHOWN |
| SHEET NO. | |

MF-TP-01140-B.dgn

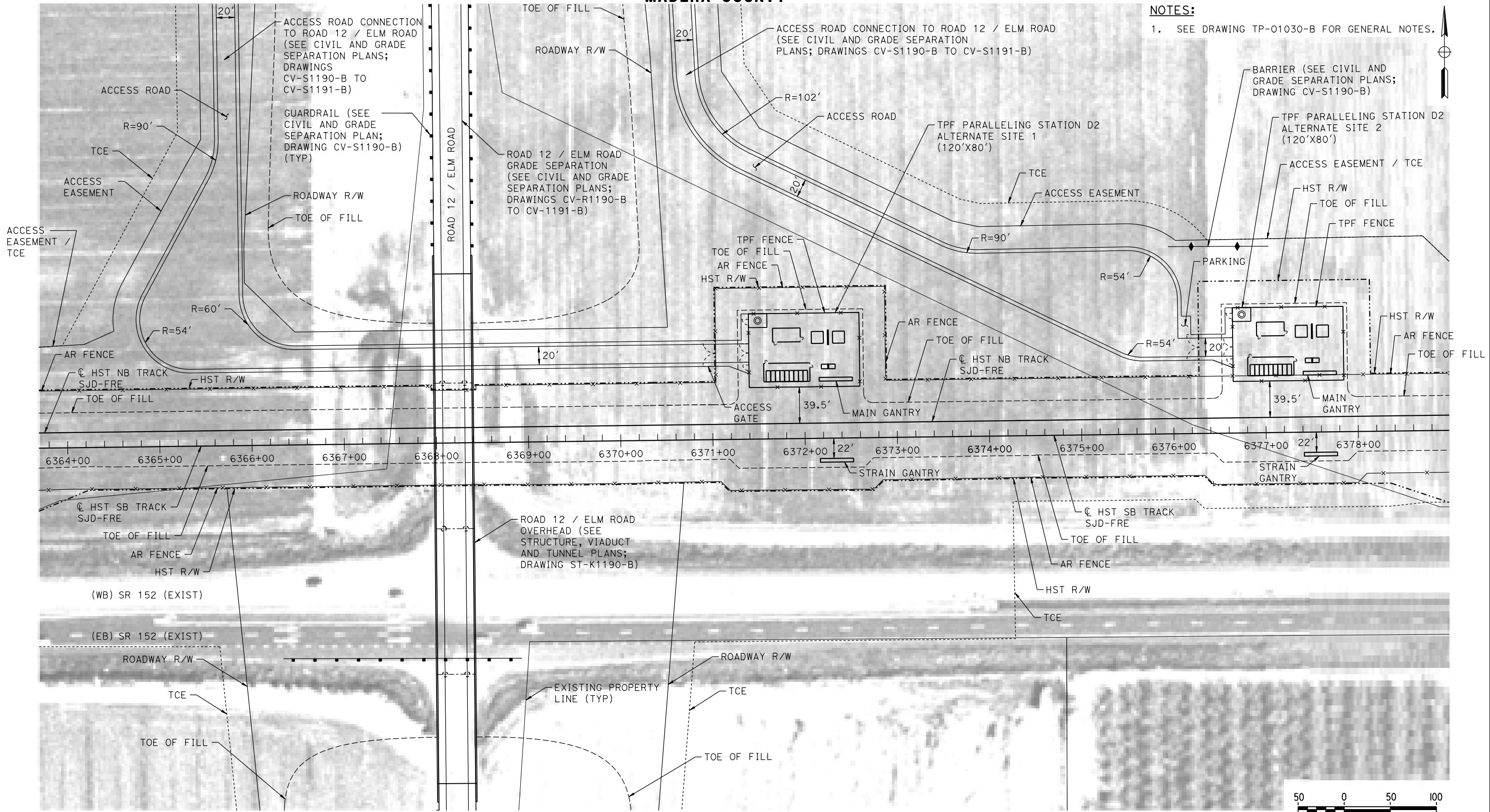
08-MAR-2016 11:31

D005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

18-MAR-2016 09:41 MF-TP-01190-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



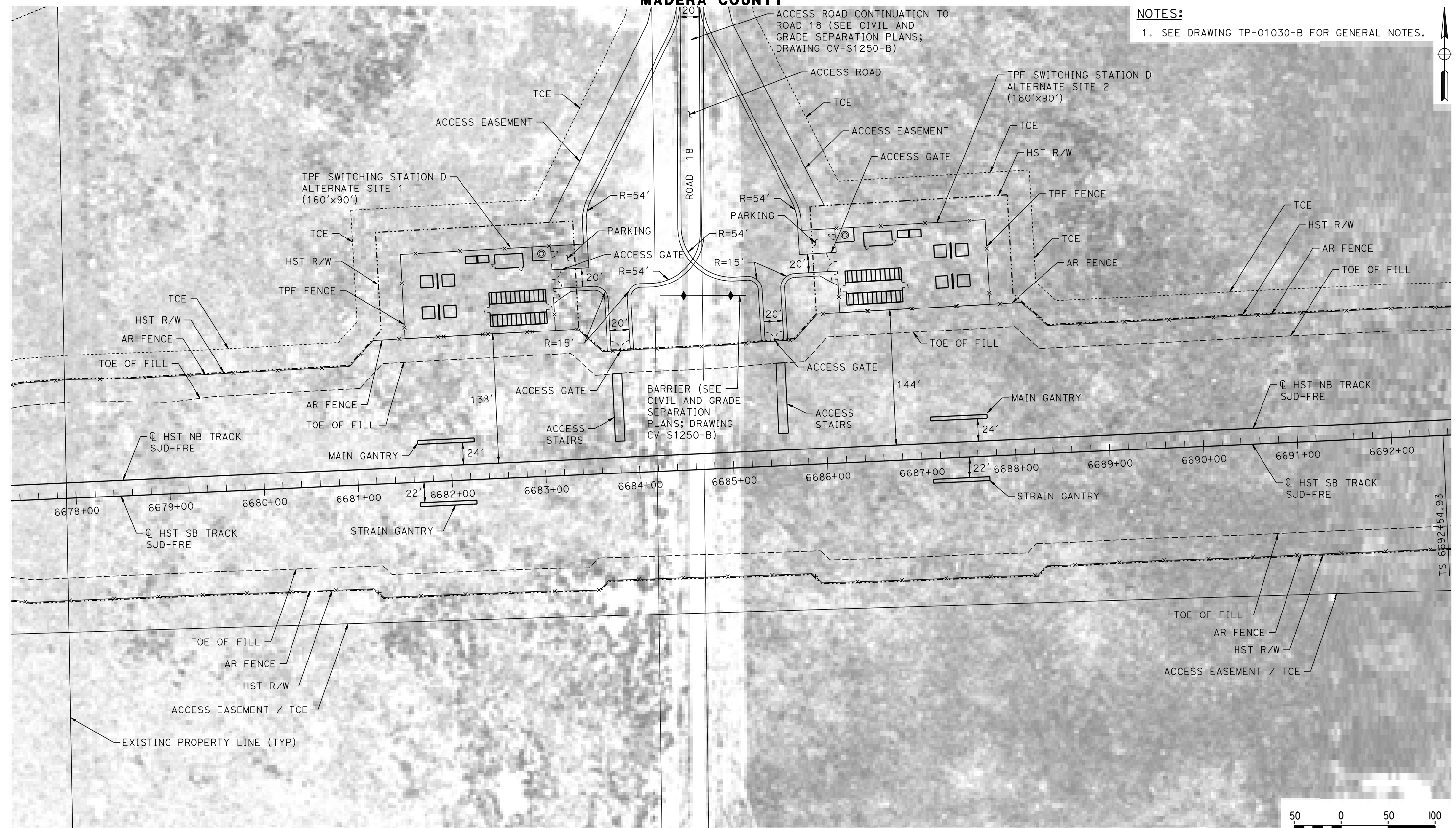
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D2 ALTERNATE SITES 1 & 2

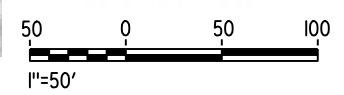
| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01190-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN



08-MAR-2016 1:32 MF-TP-01250-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

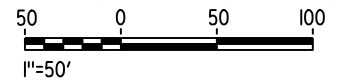
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION D ALTERNATE SITES 1 & 2



| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01250-B |
| SCALE AS SHOWN |
| SHEET NO. |



| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01280-B |
| SCALE AS SHOWN |
| SHEET NO. |

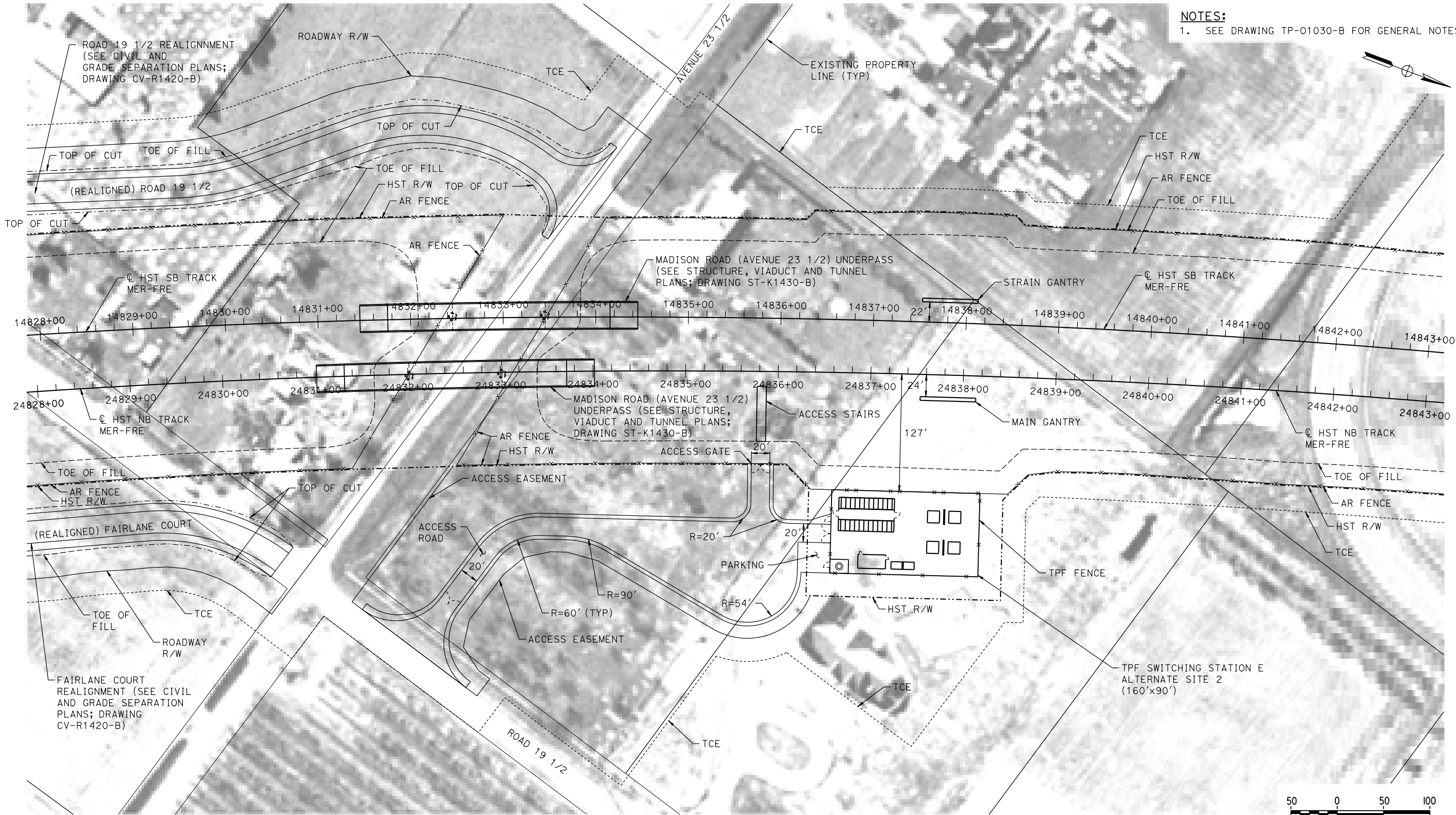


| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TP-01320-B |
| SCALE | AS SHOWN |
| SHEET NO. | |

| | | | | | | | | | | | |
|-----|------|----|-----|-----|-------------|-------------------------|---|---|---|---|---------------------------|
| | | | | | | DESIGNED BY A. GURA | RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION |  |  | CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE TRACTION POWER FACILITY SITE PLAN SWITCHING STATION E ALTERNATE SITE 1 | CONTRACT NO. HSR08-05 |
| | | | | | | DRAWN BY J. CASTILLO | | | | | DRAWING NO. TP-01420-B |
| | | | | | | CHECKED BY A. GURA | | | | | SCALE AS SHOWN |
| | | | | | | IN CHARGE C. LEMLEY | | | | | SHEET NO. |
| | | | | | | DATE 03/18/2016 | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION | | | | | | |

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

18-MAR-2016 09:42 MF-TP-01430-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

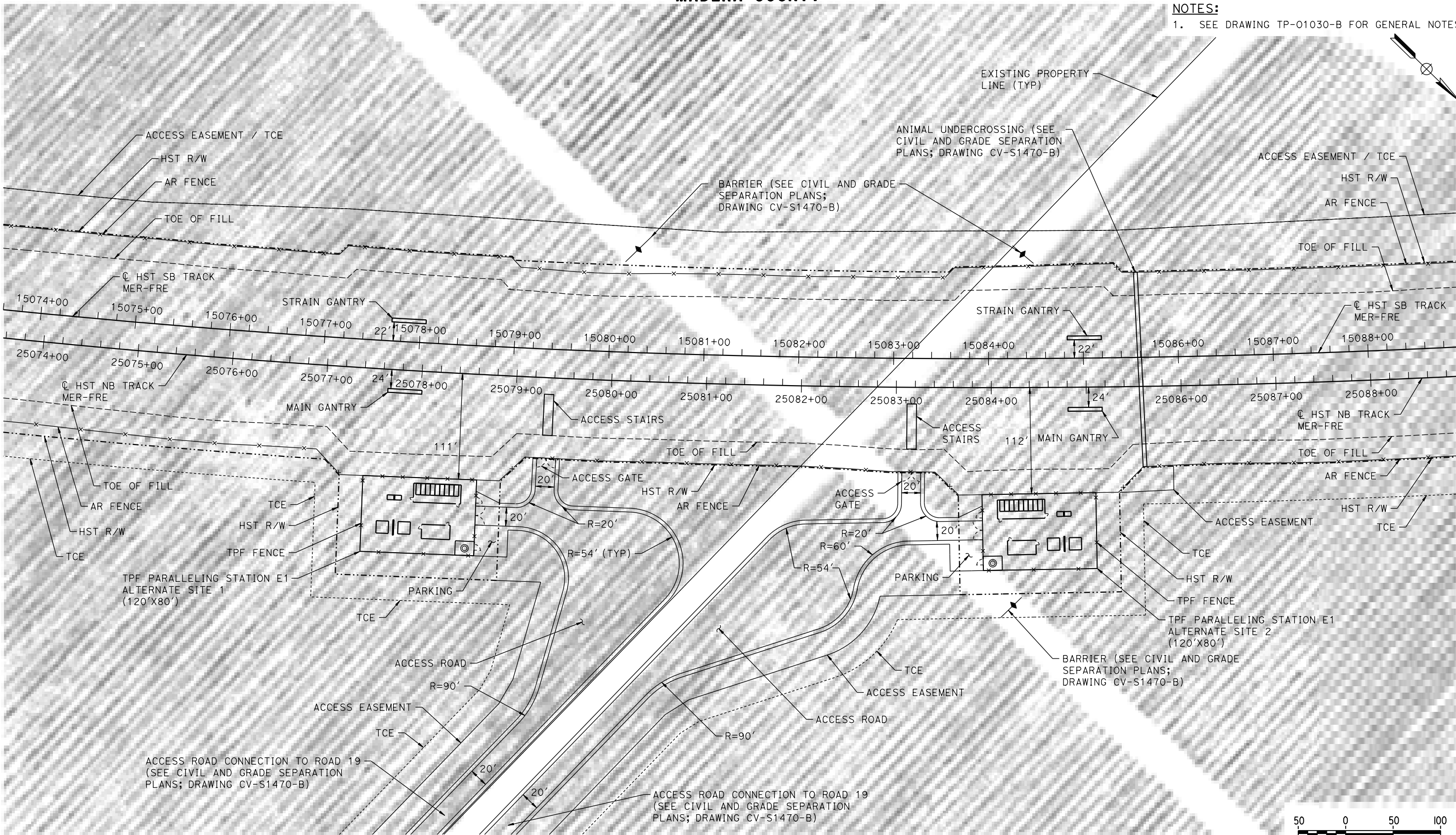


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION E ALTERNATE SITE 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01430-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

10-MAR-2016 8:03 MF-TP-01470-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



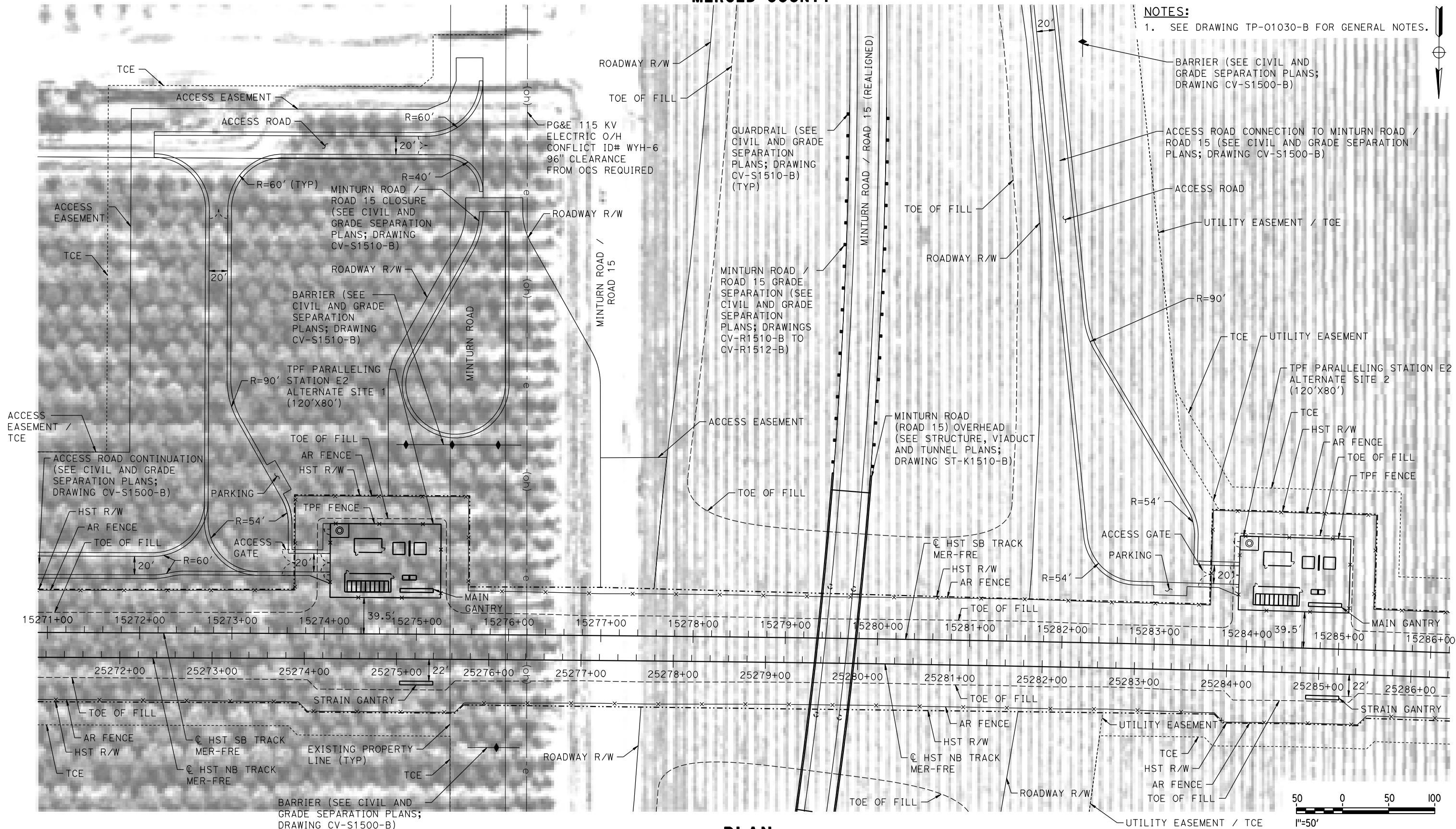
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E1 ALTERNATE SITES 1 & 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01470-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

18-MAR-2016 15:28 MF-TP-01510-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E2 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01510-B |
| SCALE AS SHOWN |
| SHEET NO. |

ACCESS ROAD CONNECTION TO SANDY MUSKIE
ROAD (SEE CIVIL AND GRADE SEPARATION
PLANS; DRAWING CV-S1540-B)

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



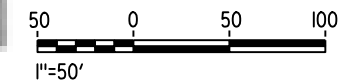
| | |
|-------------|-------------|
| DESIGNED BY | A. GURA |
| DRAWN BY | J. CASTILLO |
| CHECKED BY | A. GURA |
| IN CHARGE | C. LEMLEY |
| DATE | 03/18/2016 |

**NOT FOR
CONSTRUCTION**



CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION E (SANDY MUSH) ALTERNATE SITE 1

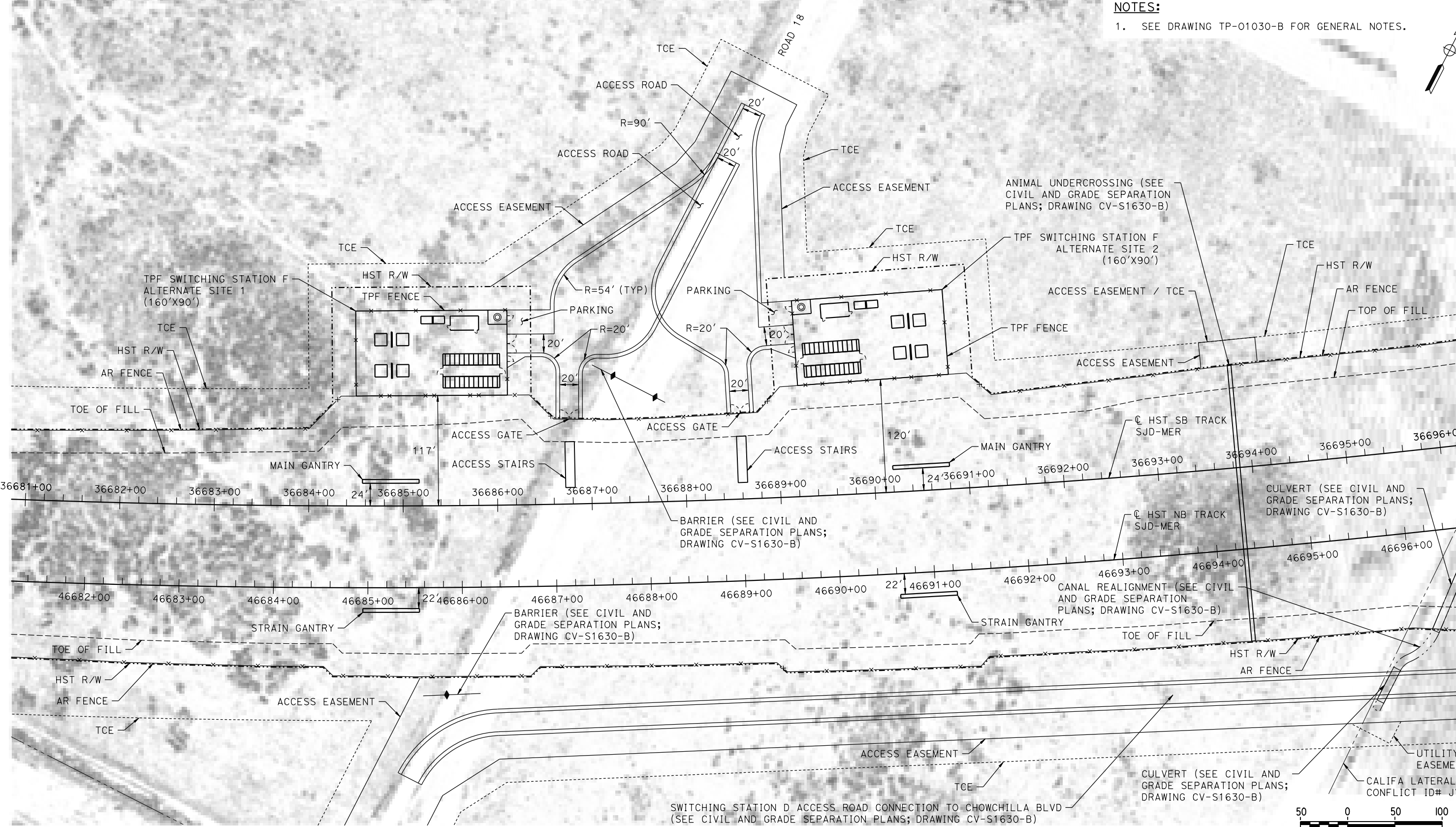
SHEET NO.



| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TP-01541-B |
| SCALE | AS SHOWN |
| SHEET NO. | |

MADERA COUNTY

NOTES:
1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

08-MAR-2016 11:36 MF-TP-01630-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

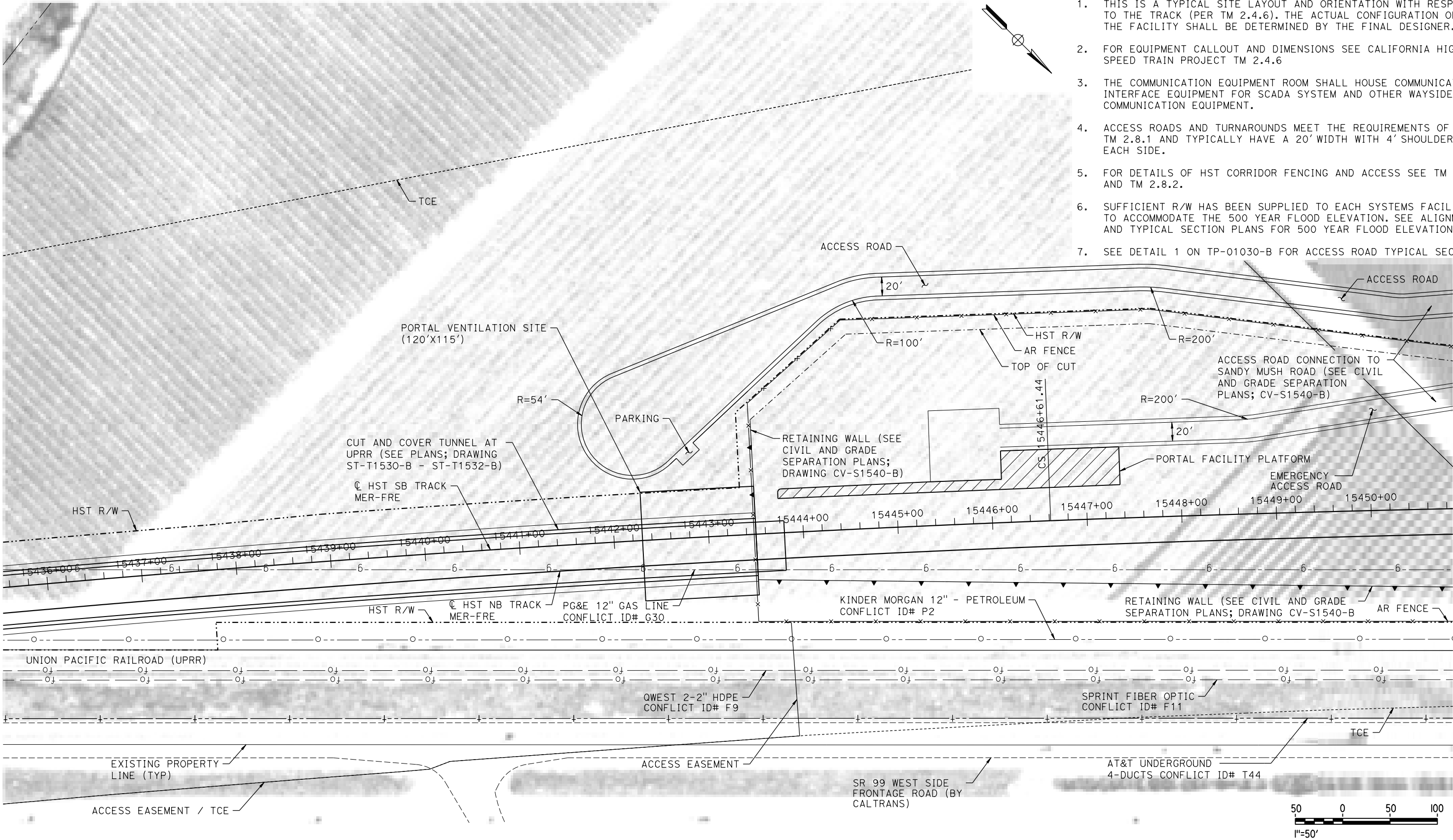
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION F ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TP-01630-B |
| SCALE AS SHOWN |
| SHEET NO. |

- GENERAL NOTES:**
1. THIS IS A TYPICAL SITE LAYOUT AND ORIENTATION WITH RESPECT TO THE TRACK (PER TM 2.4.6). THE ACTUAL CONFIGURATION OF THE FACILITY SHALL BE DETERMINED BY THE FINAL DESIGNER.
 2. FOR EQUIPMENT CALLOUT AND DIMENSIONS SEE CALIFORNIA HIGH SPEED TRAIN PROJECT TM 2.4.6
 3. THE COMMUNICATION EQUIPMENT ROOM SHALL HOUSE COMMUNICATION INTERFACE EQUIPMENT FOR SCADA SYSTEM AND OTHER WAYSIDE COMMUNICATION EQUIPMENT.
 4. ACCESS ROADS AND TURNAROUNDS MEET THE REQUIREMENTS OF TM 2.8.1 AND TYPICALLY HAVE A 20' WIDTH WITH 4' SHOULDERS ON EACH SIDE.
 5. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND TM 2.8.2.
 6. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
 7. SEE DETAIL 1 ON TP-01030-B FOR ACCESS ROAD TYPICAL SECTION.



18-MAR-2016 09:43 MF-ME-S1540-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

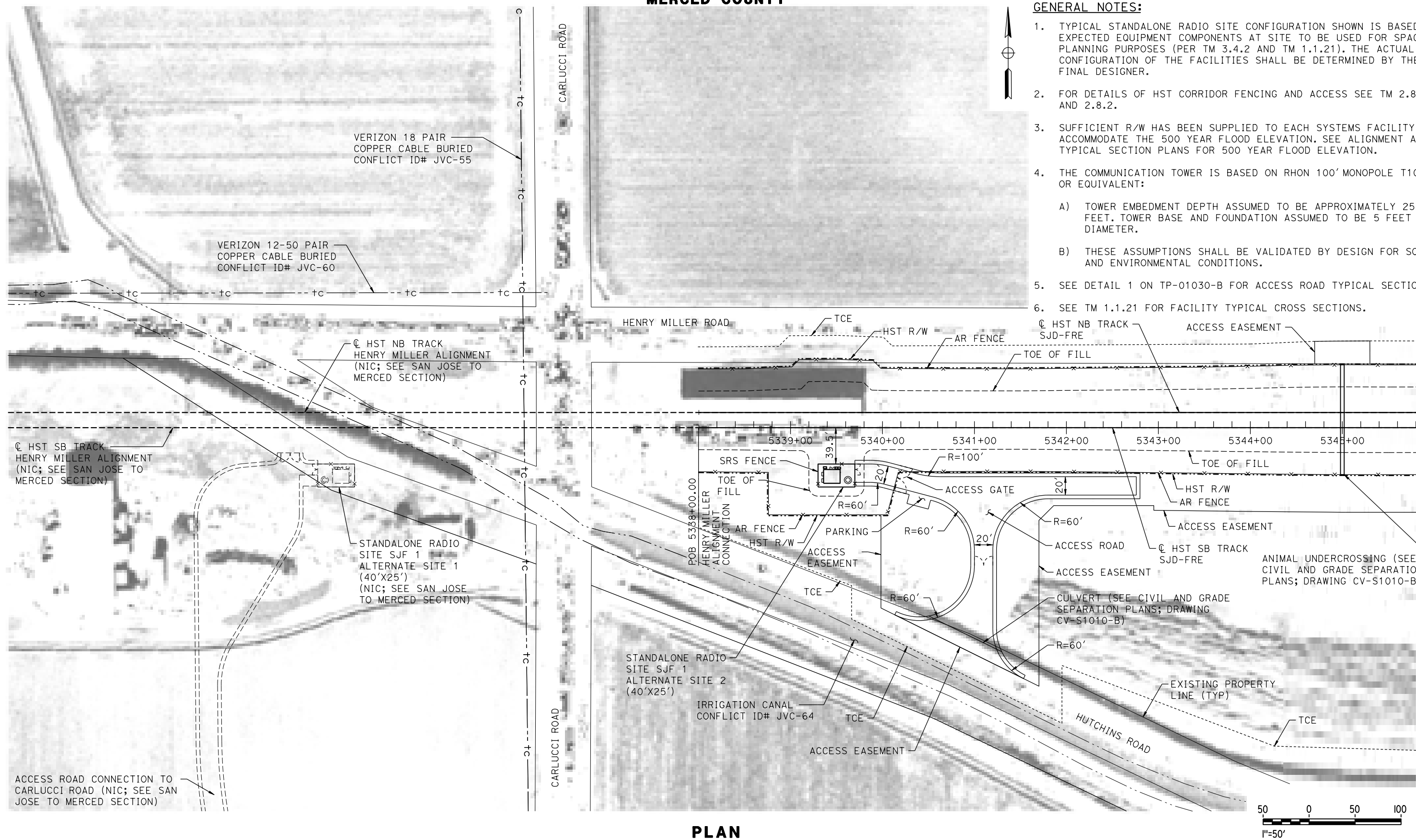


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
MECHANICAL FACILITY SITE PLAN
PORTAL VENTILATION SITE @ 15443+00

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. ME-S1540-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

- GENERAL NOTES:
- 1. TYPICAL STANDALONE RADIO SITE CONFIGURATION SHOWN IS BASED ON EXPECTED EQUIPMENT COMPONENTS AT SITE TO BE USED FOR SPACE PLANNING PURPOSES (PER TM 3.4.2 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE FACILITIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
 - 2. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND 2.8.2.
 - 3. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
 - 4. THE COMMUNICATION TOWER IS BASED ON RHON 100' MONOPOLE T100HA OR EQUIVALENT:
 - A) TOWER EMBEDMENT DEPTH ASSUMED TO BE APPROXIMATELY 25 FEET. TOWER BASE AND FOUNDATION ASSUMED TO BE 5 FEET IN DIAMETER.
 - B) THESE ASSUMPTIONS SHALL BE VALIDATED BY DESIGN FOR SOIL AND ENVIRONMENTAL CONDITIONS.
 - 5. SEE DETAIL 1 ON TP-01030-B FOR ACCESS ROAD TYPICAL SECTION.
 - 6. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.



PLAN

MF-CO-F1010-B.dgn
08-MAR-2016 11:11
p005133a

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

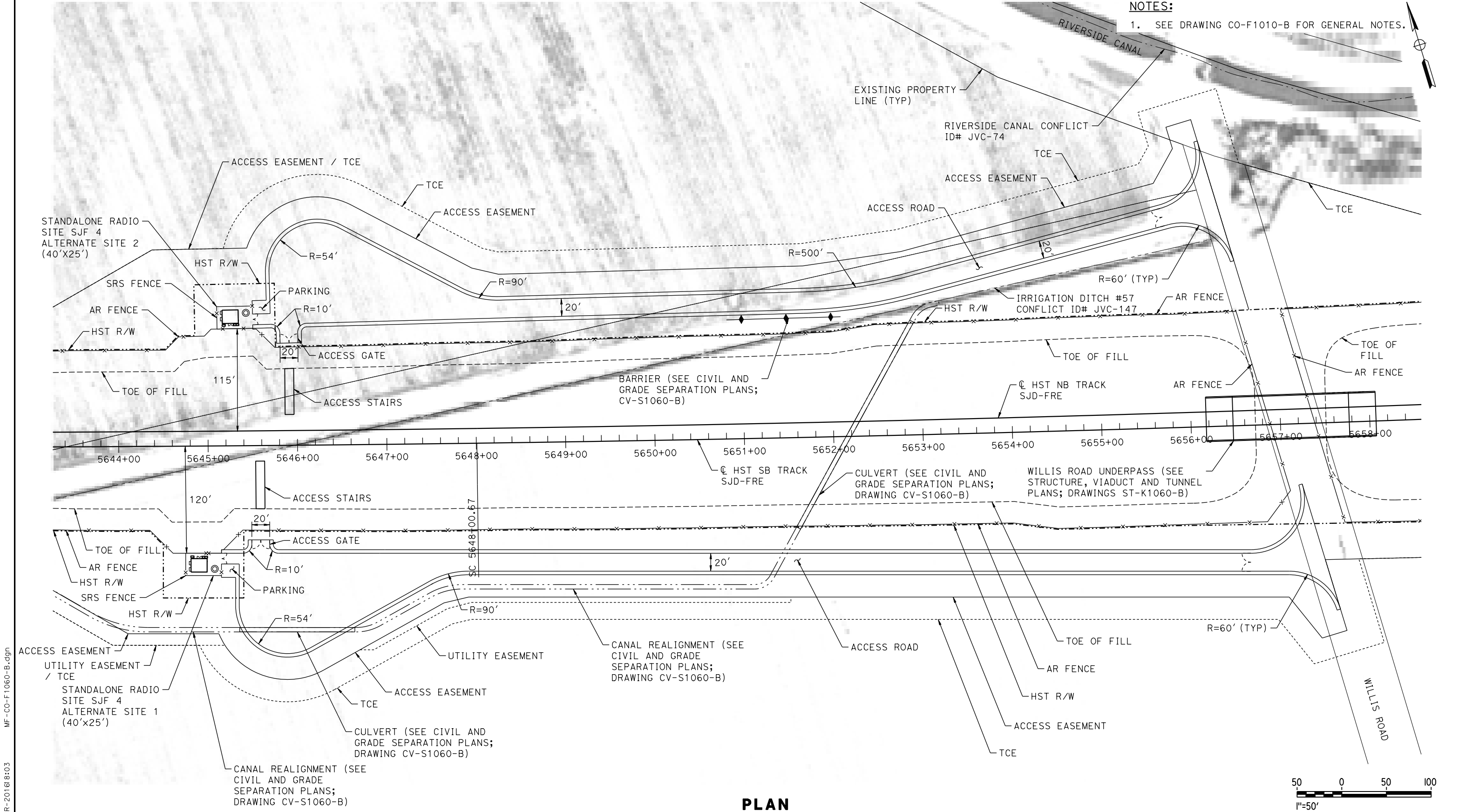
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1010-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. GURA
DRAWN BY
M. TACTAY
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

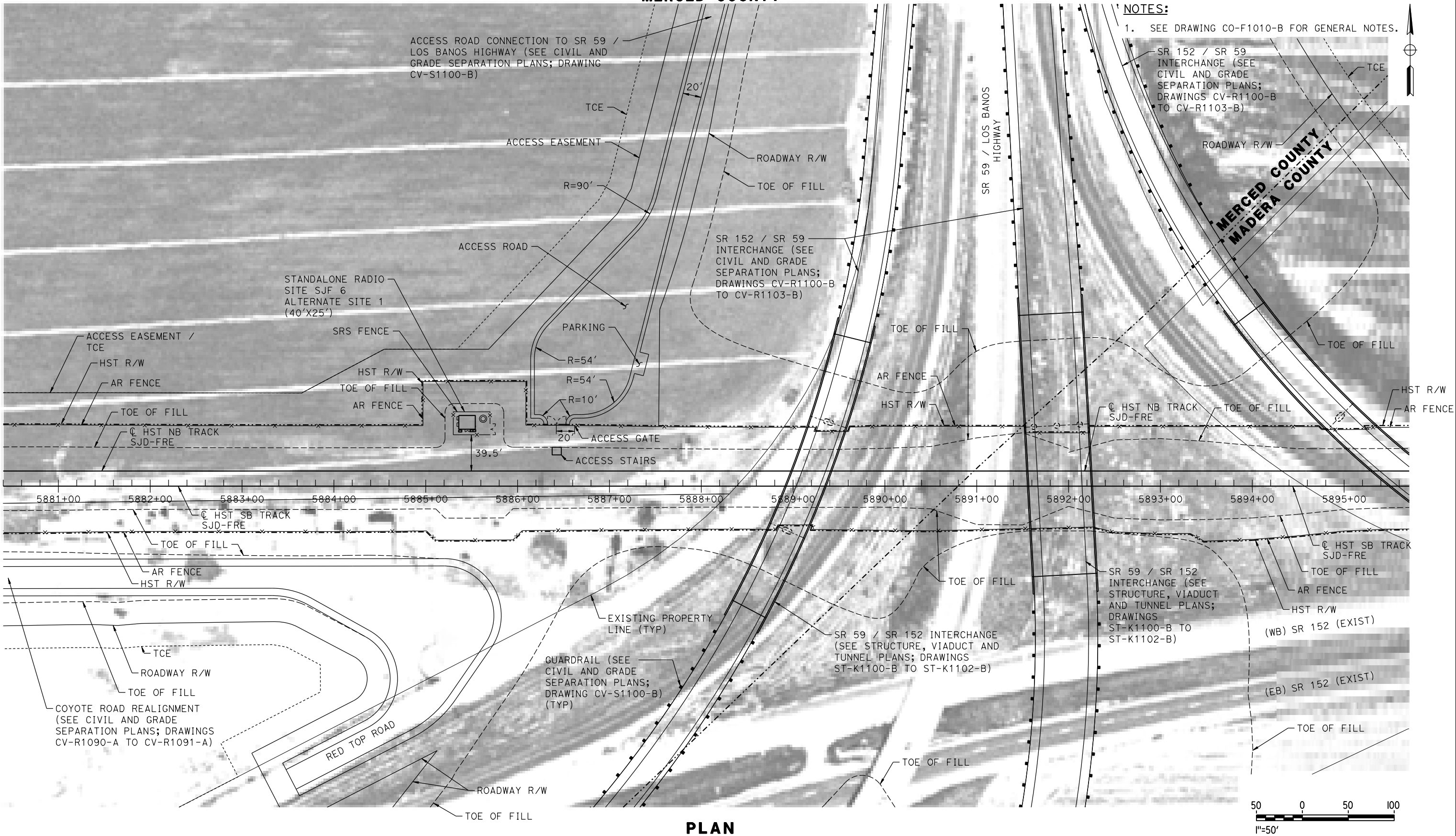
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2

CONTRACT NO.
HSR08-05
DRAWING NO.
CO-F1060-B
SCALE
AS SHOWN
SHEET NO.

MERCED COUNTY



PLAN

18-MAR-2016 15:27 MF-CO-F1100-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



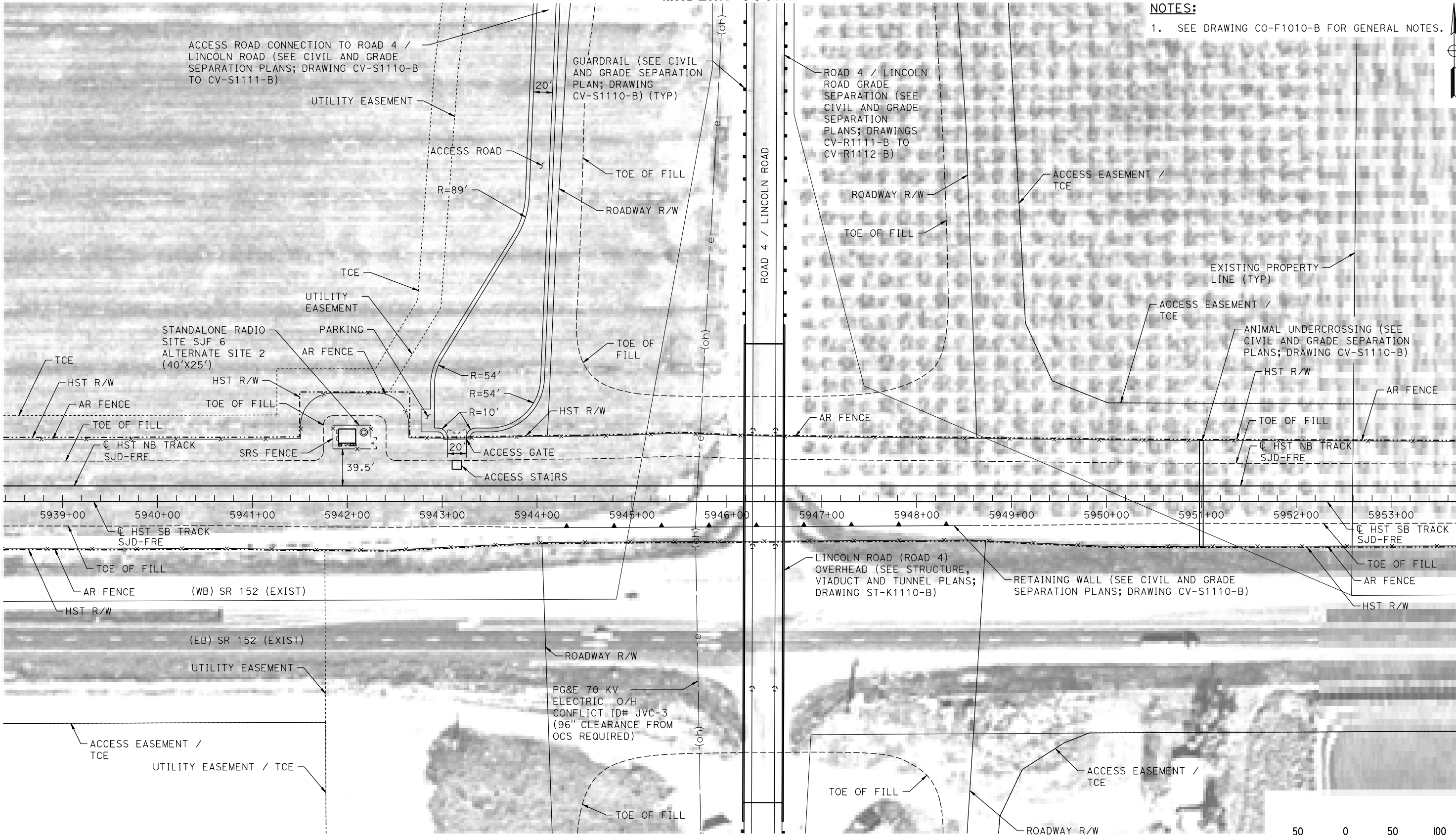
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 6 ALTERNATE SITE 1

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1100-B |
| SCALE AS SHOWN |
| SHEET NO. |

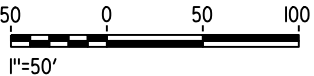
MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN



18-MAR-2016 09:44 MF-CO-F1110-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



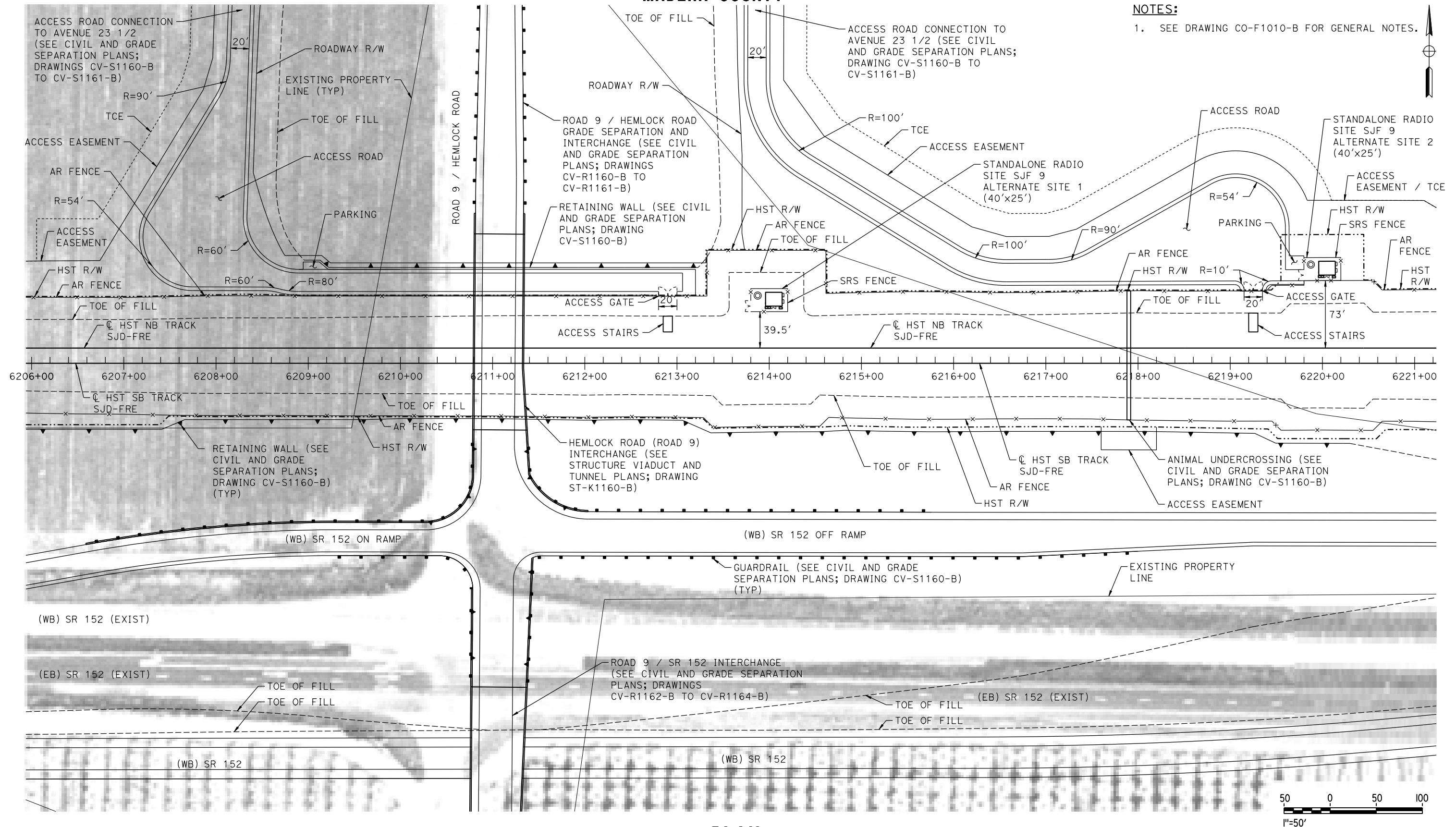
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 6 ALTERNATE SITE 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1110-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

MF-CO-F1160-B.dgn

18-MAR-2016 09:44

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

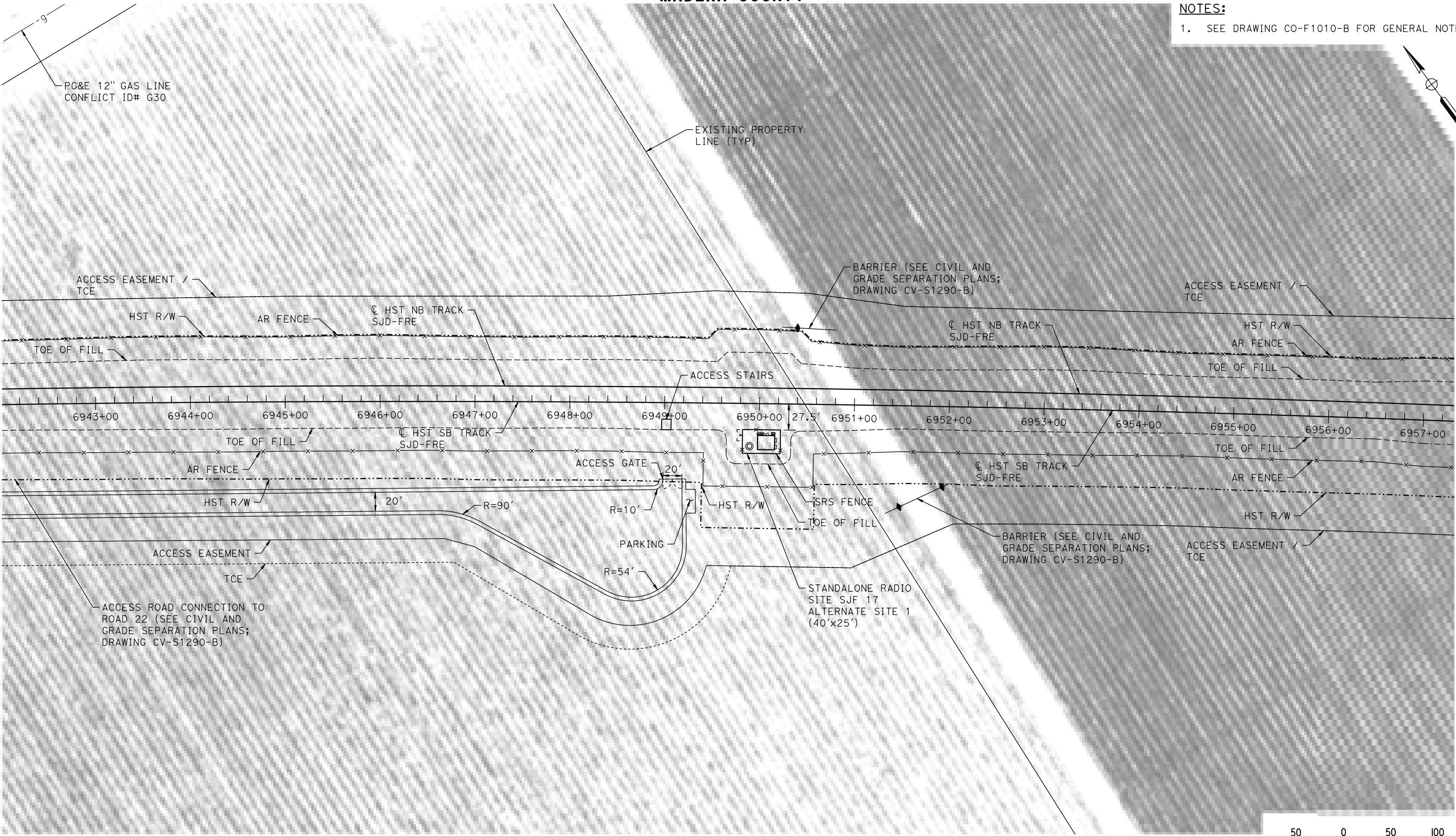
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 9 ALTERNATES SITES 1 & 2

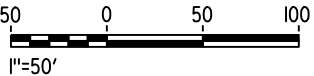
| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1160-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN



08-MAR-2016 11:14 MF-CO-F1290-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

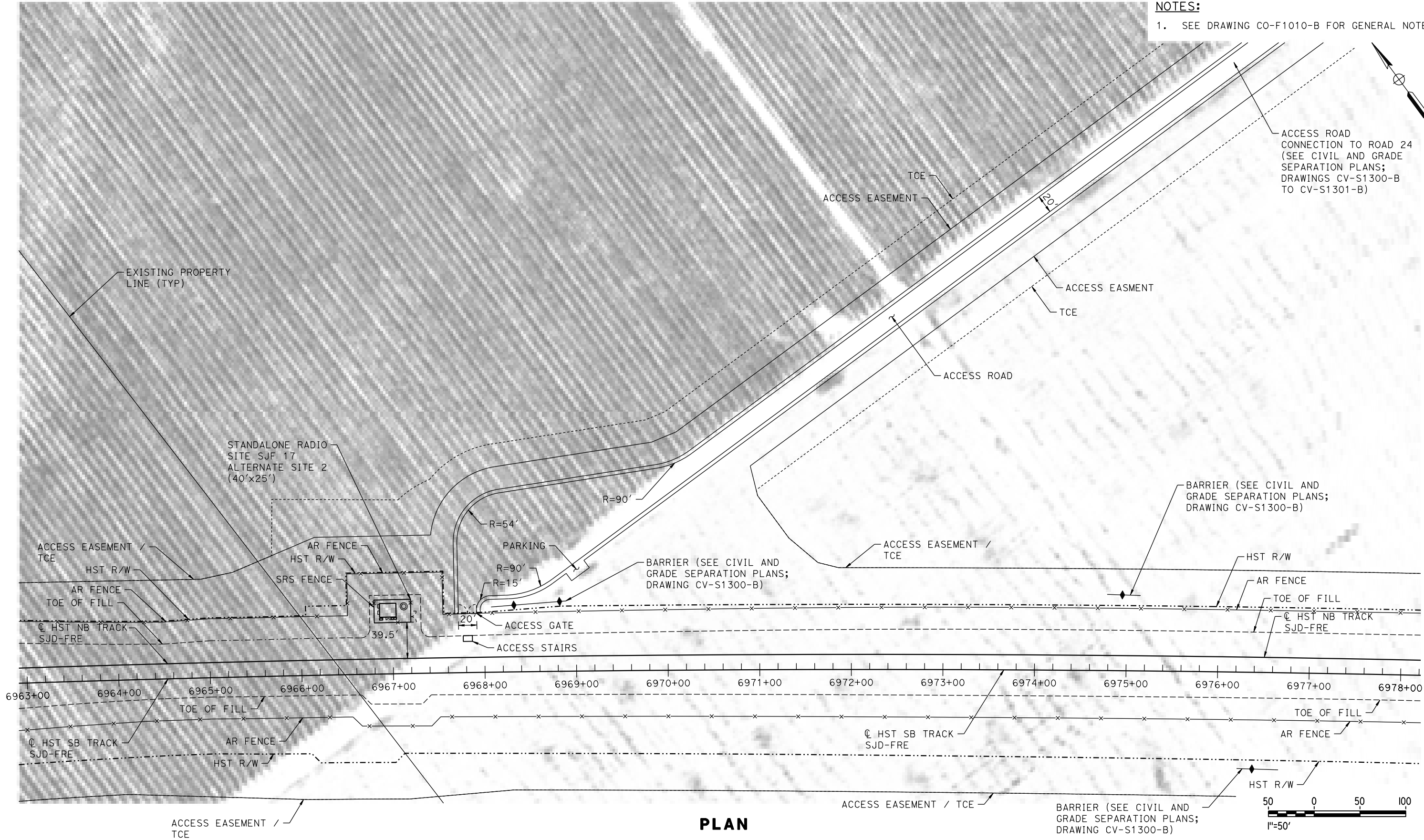


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 17 ALTERNATE SITE 1

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1290-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

MF-CO-F1300-B.dgn
10-MAR-2016 8:04
P0042226

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



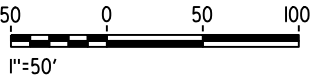
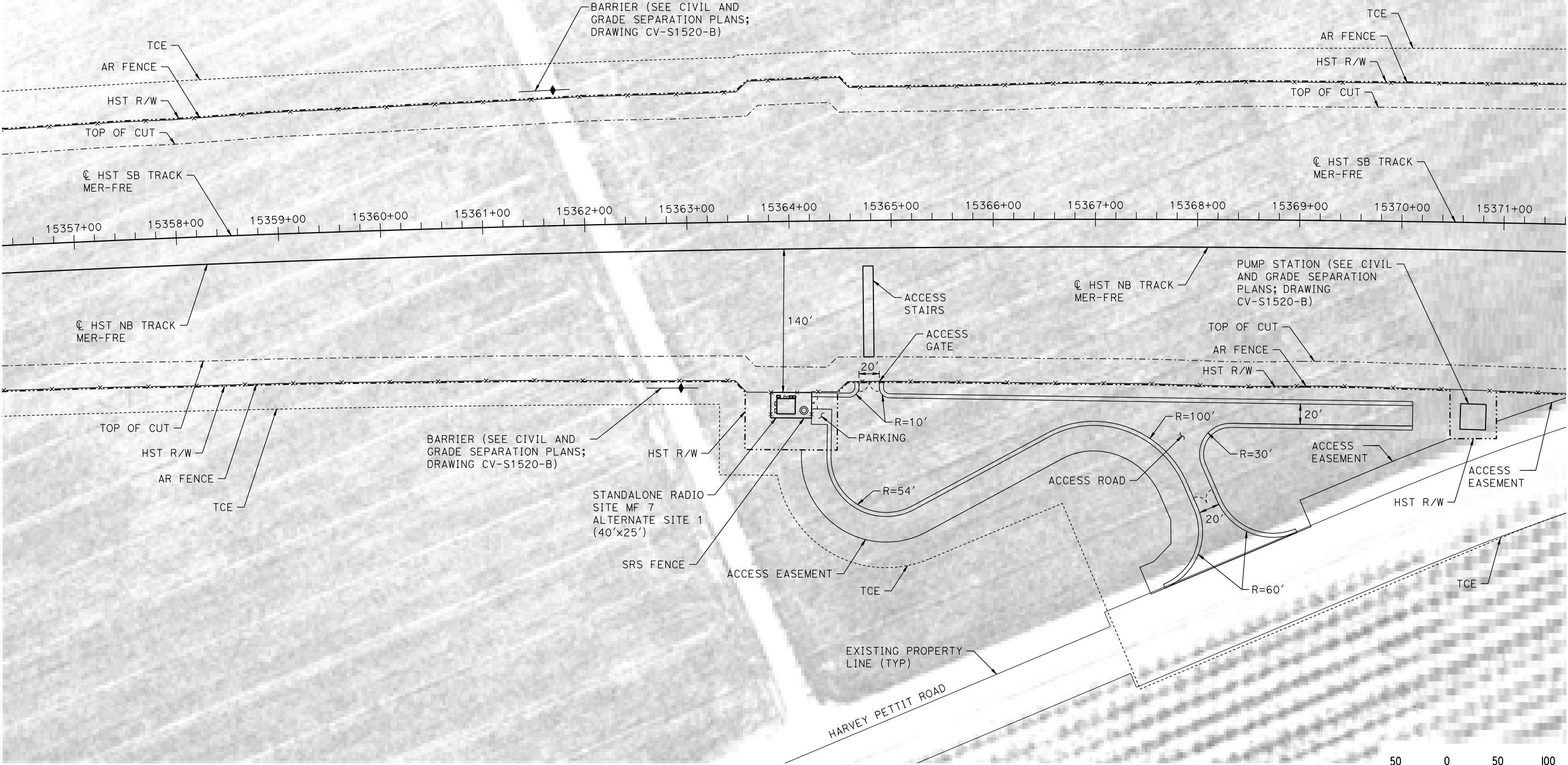
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 17 ALTERNATE SITE 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1300-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

08-MAR-2016 11:15 MF-CO-F1520-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE MF 7 ALTERNATE SITE 1

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1520-B |
| SCALE AS SHOWN |
| SHEET NO. |

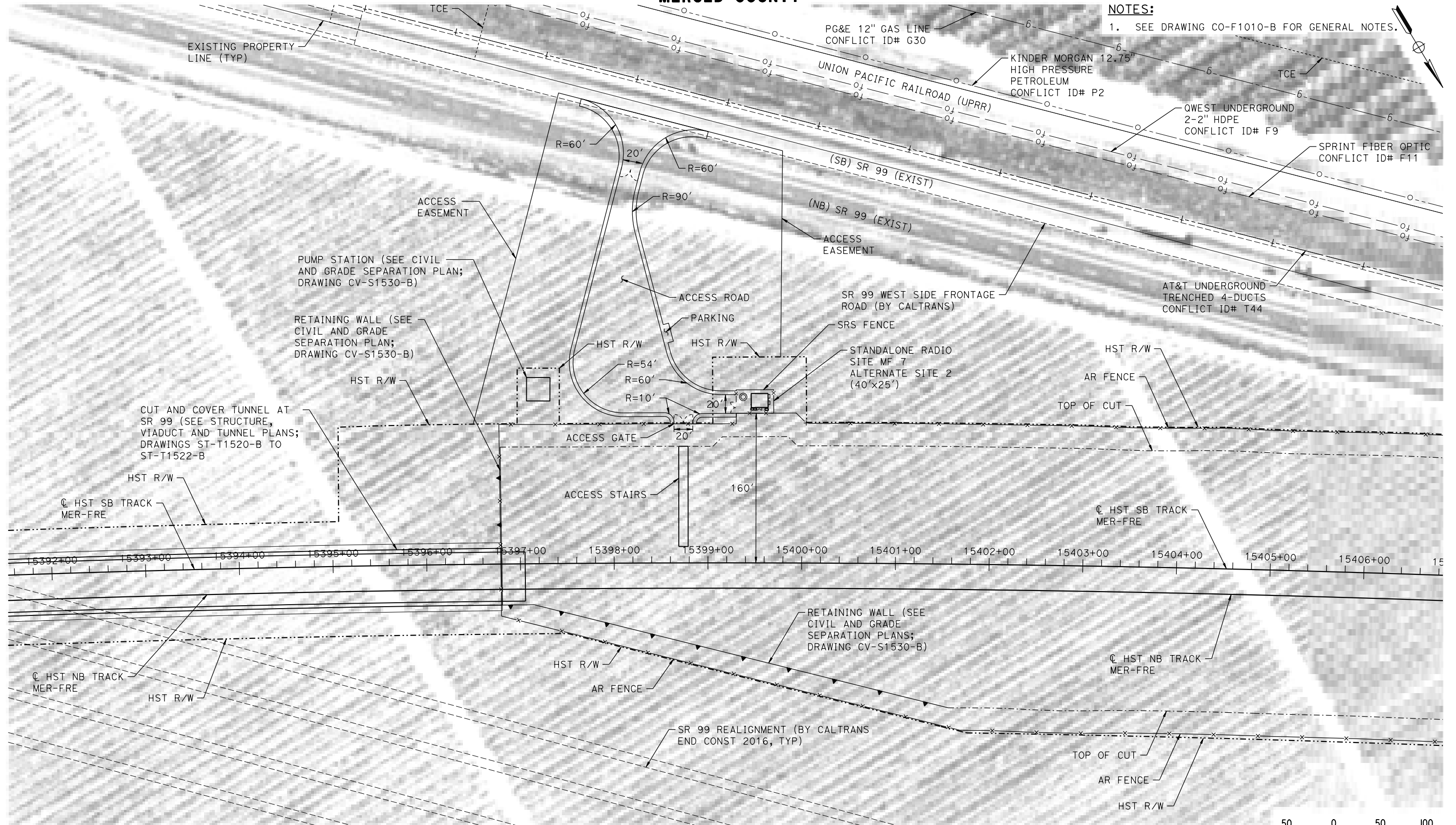
08-MAR-2016 11:16 MF-CO-F1530-B.dgn

0005133A

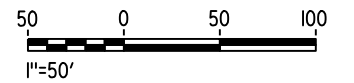
MERCED COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY M. TACTAY |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

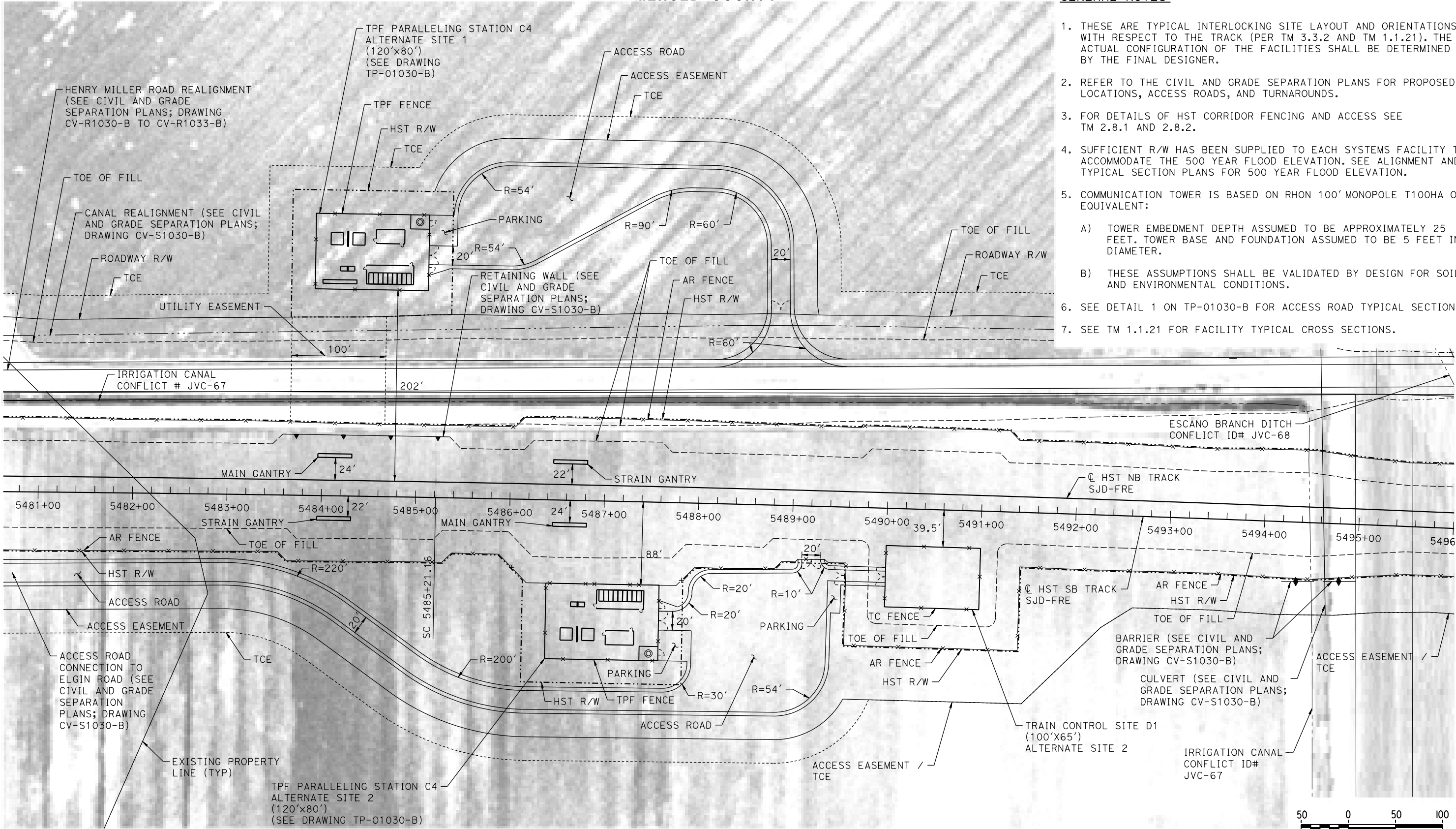
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE MF 7 ALTERNATE SITE 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. CO-F1530-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

GENERAL NOTES:

- 1. THESE ARE TYPICAL INTERLOCKING SITE LAYOUT AND ORIENTATIONS WITH RESPECT TO THE TRACK (PER TM 3.3.2 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE FACILITIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
- 2. REFER TO THE CIVIL AND GRADE SEPARATION PLANS FOR PROPOSED LOCATIONS, ACCESS ROADS, AND TURNAROUNDS.
- 3. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND 2.8.2.
- 4. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
- 5. COMMUNICATION TOWER IS BASED ON RHON 100' MONOPOLE T100HA OR EQUIVALENT:
 - A) TOWER EMBEDMENT DEPTH ASSUMED TO BE APPROXIMATELY 25 FEET. TOWER BASE AND FOUNDATION ASSUMED TO BE 5 FEET IN DIAMETER.
 - B) THESE ASSUMPTIONS SHALL BE VALIDATED BY DESIGN FOR SOIL AND ENVIRONMENTAL CONDITIONS.
- 6. SEE DETAIL 1 ON TP-01030-B FOR ACCESS ROAD TYPICAL SECTION.
- 7. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.



PLAN

p005133a 18-MAR-2016 09:45 MF-TC-F1030-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

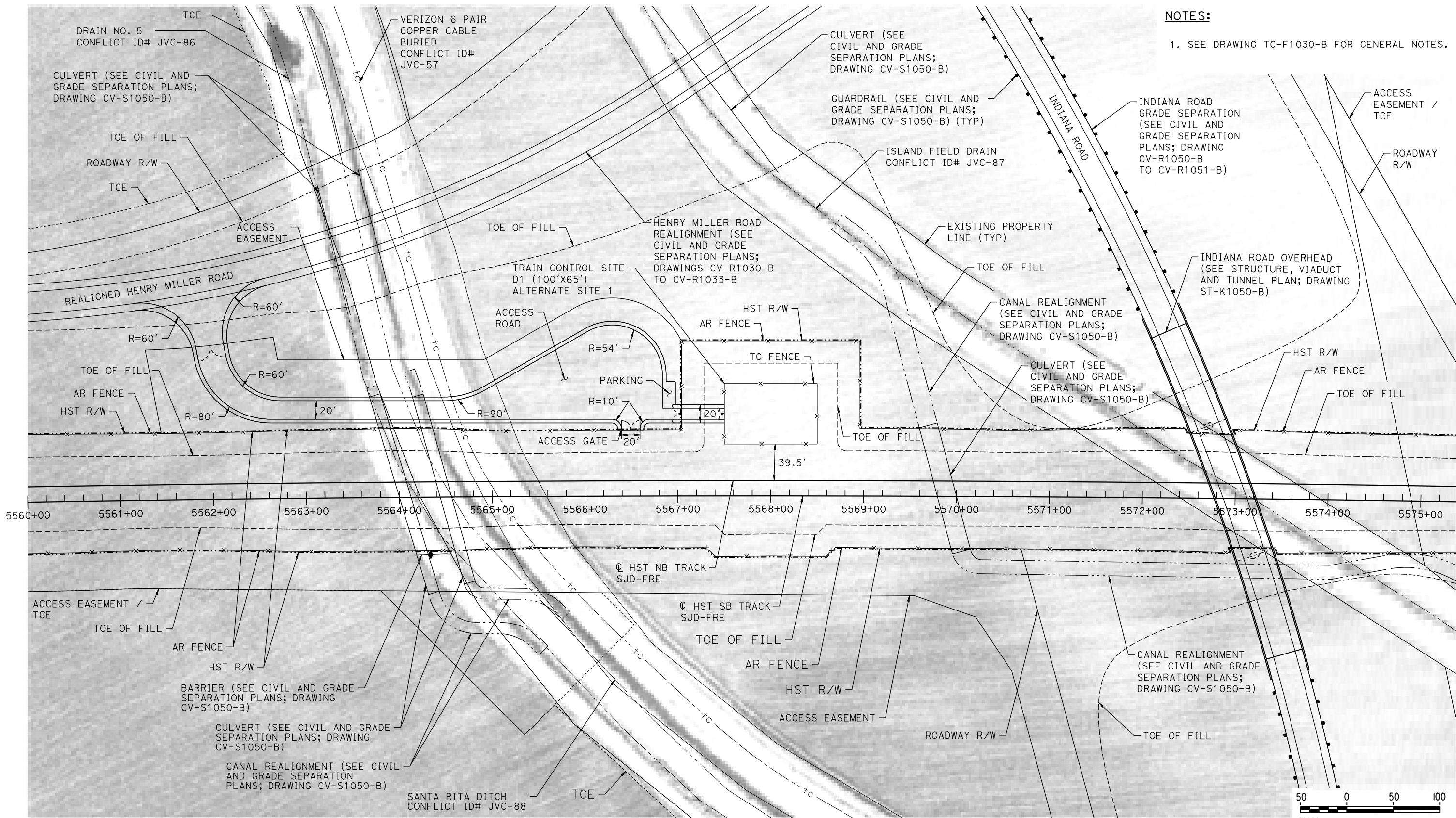
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D1 ALTERNATE SITE 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1030-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY



NOTES:
1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

PLAN

10-MAR-2016 8:05 MF-TC-F1050-B.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

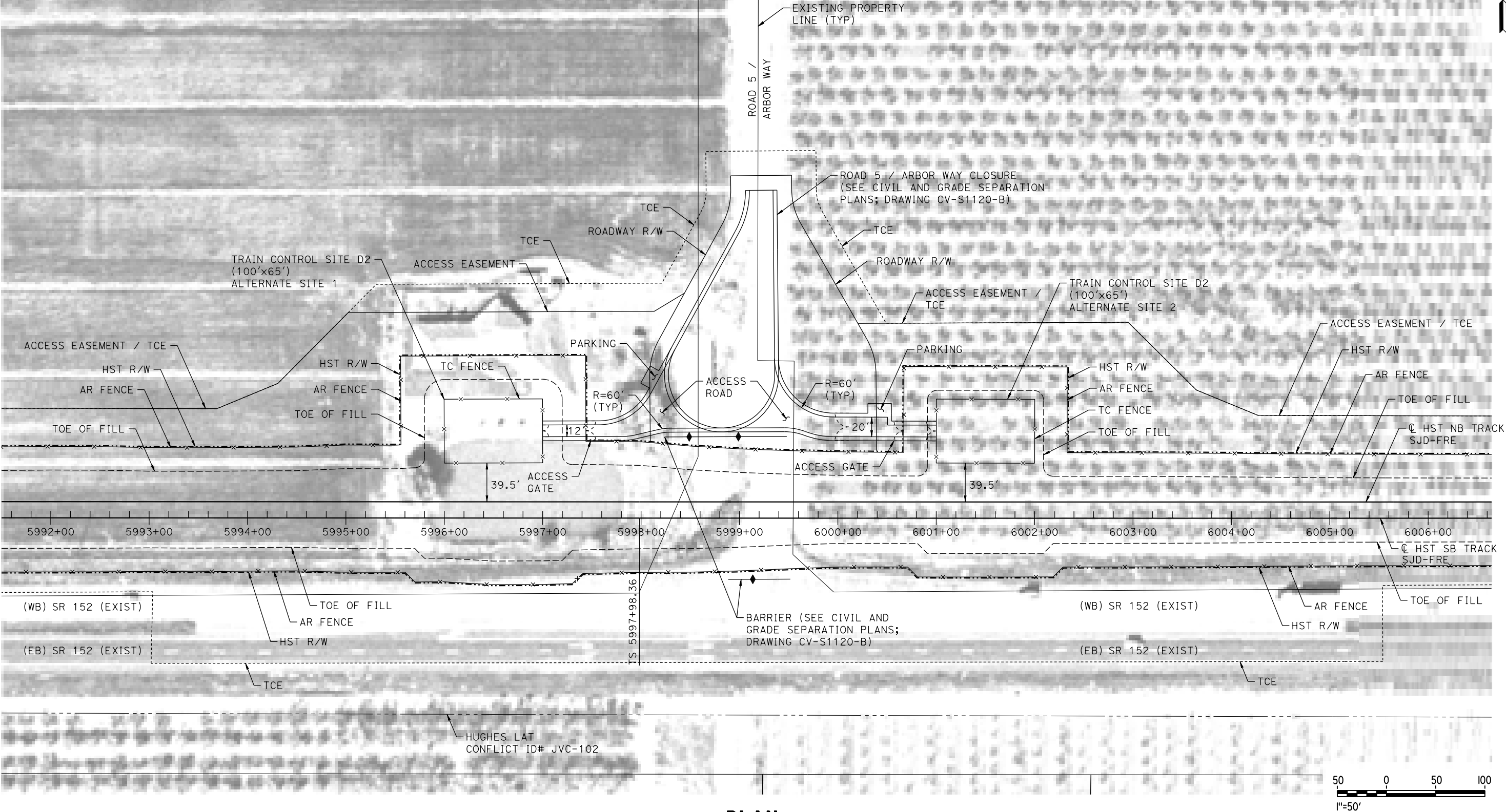


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D1 ALTERNATE SITE 1

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1050-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

- NOTES:
- 1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

08-MAR-2016 11:19 MF-TC-F1120-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

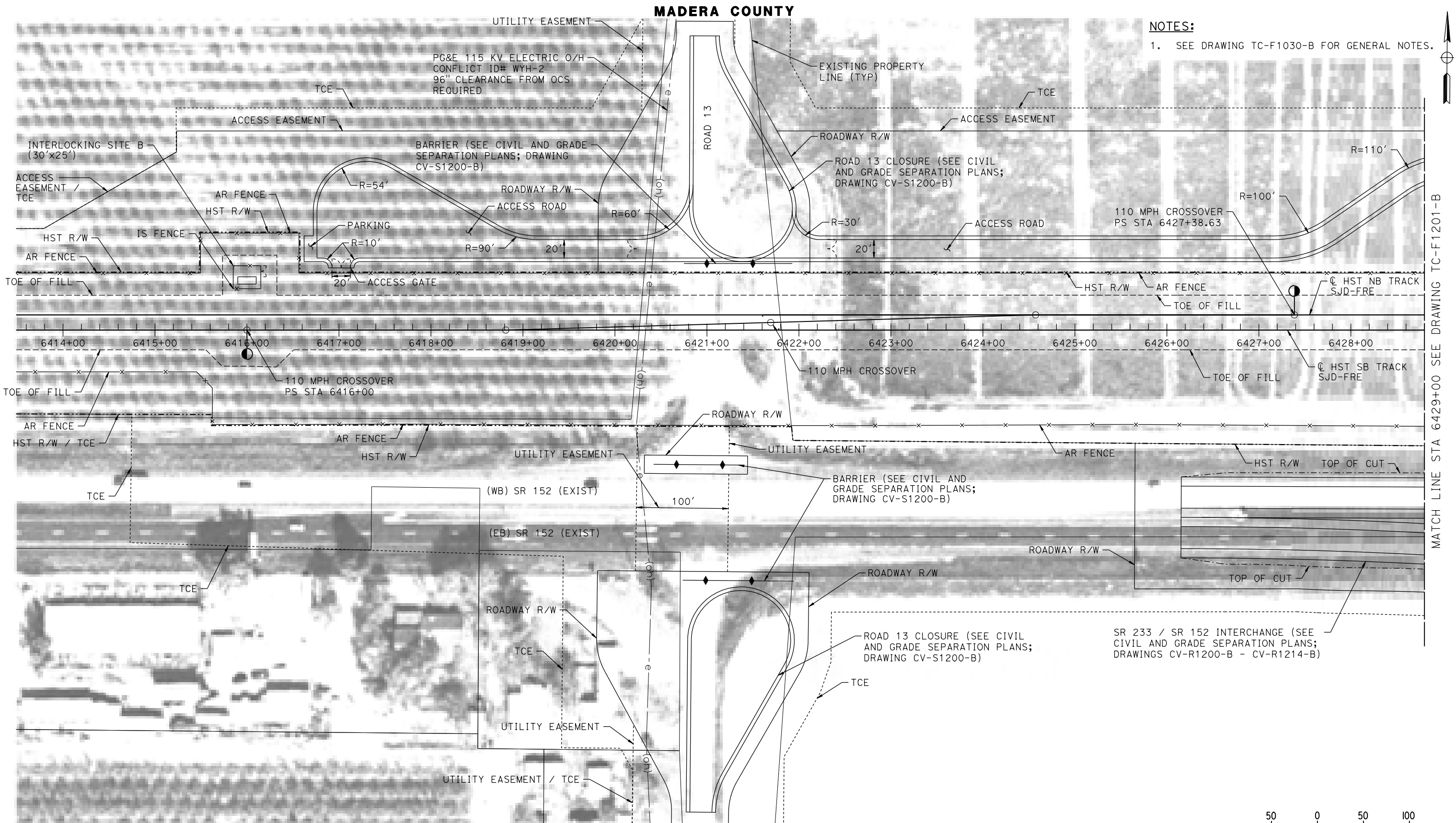


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D2 ALTERNATE SITES 1 & 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1120-B |
| SCALE AS SHOWN |
| SHEET NO. |

18-MAR-2016 09:45 MF-TC-F1200-B.dgn

0005133A



NOTES:
1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

PLAN



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



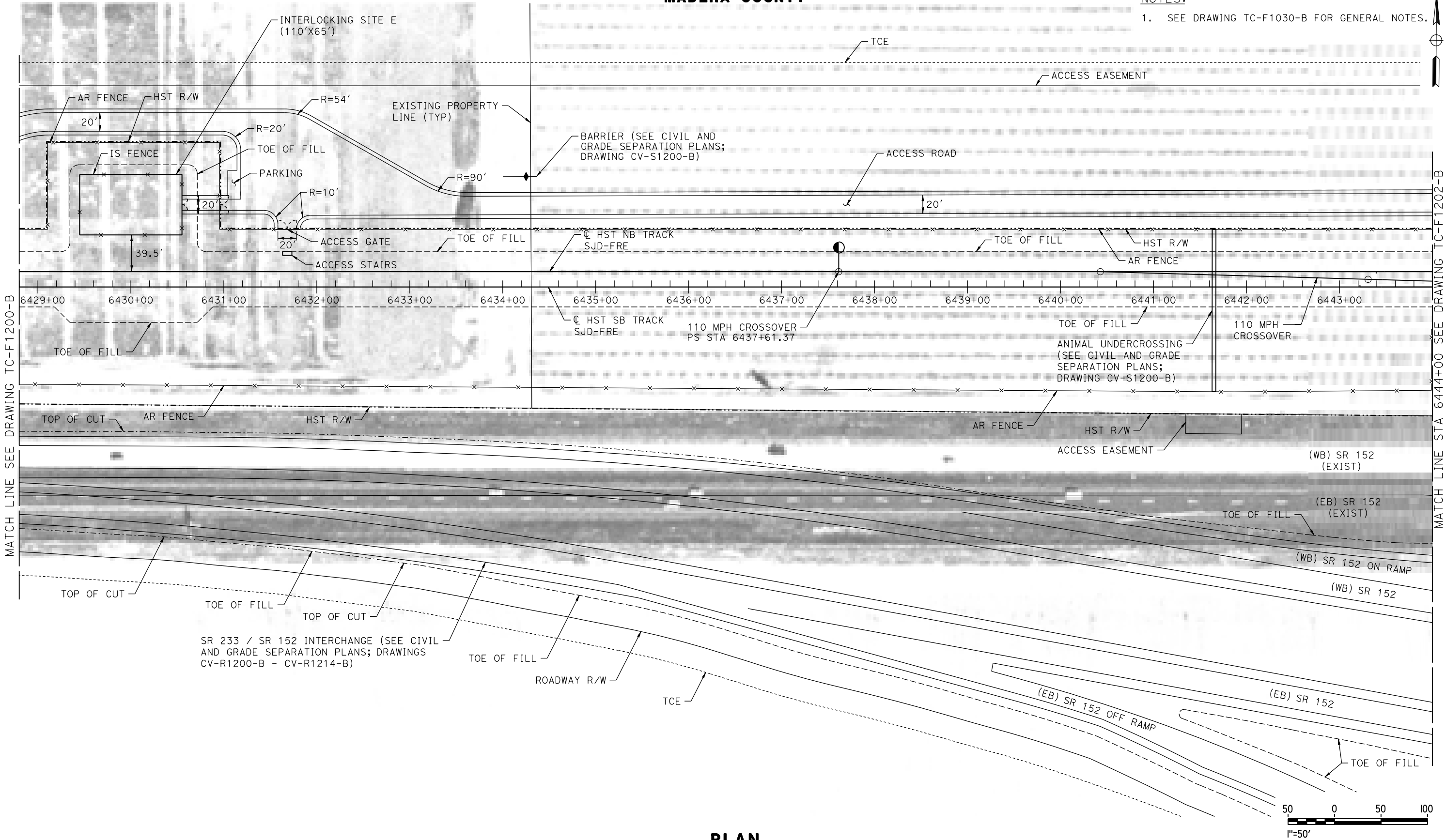
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6416+00

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1200-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

DESIGNED BY
A. GURA
DRAWN BY
J. CASTILLO
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

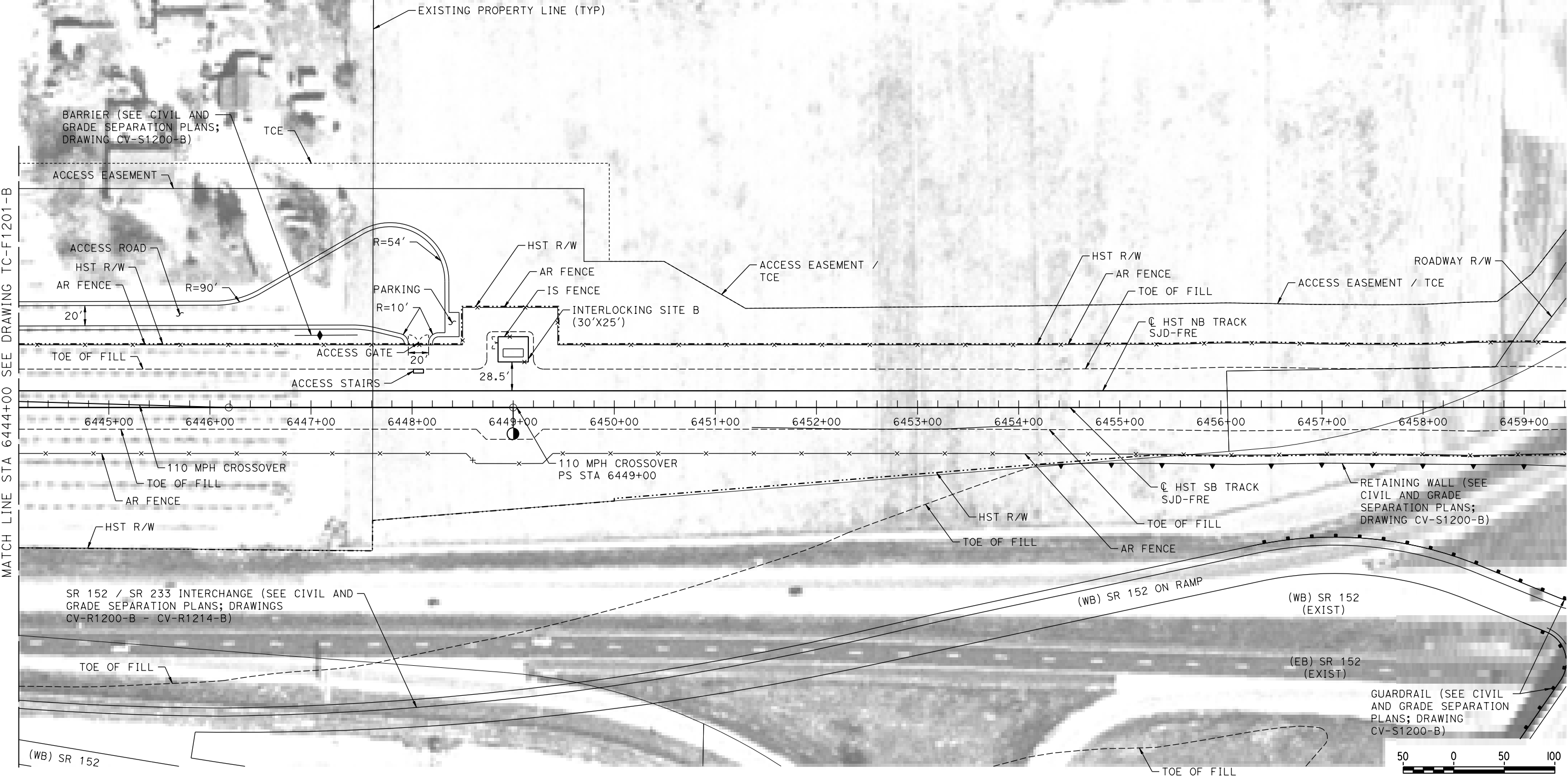


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E @ 6430+00

CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1201-B
SCALE
AS SHOWN
SHEET NO.

MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

10-MAR-2016 8:05 MF-TC-F1202-B.dgn

REV DATE BY CHK APP DESCRIPTION

DESIGNED BY
A. GURA
DRAWN BY
J. CASTILLO
CHECKED BY
A. GURA
IN CHARGE
C. LEMLEY
DATE
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

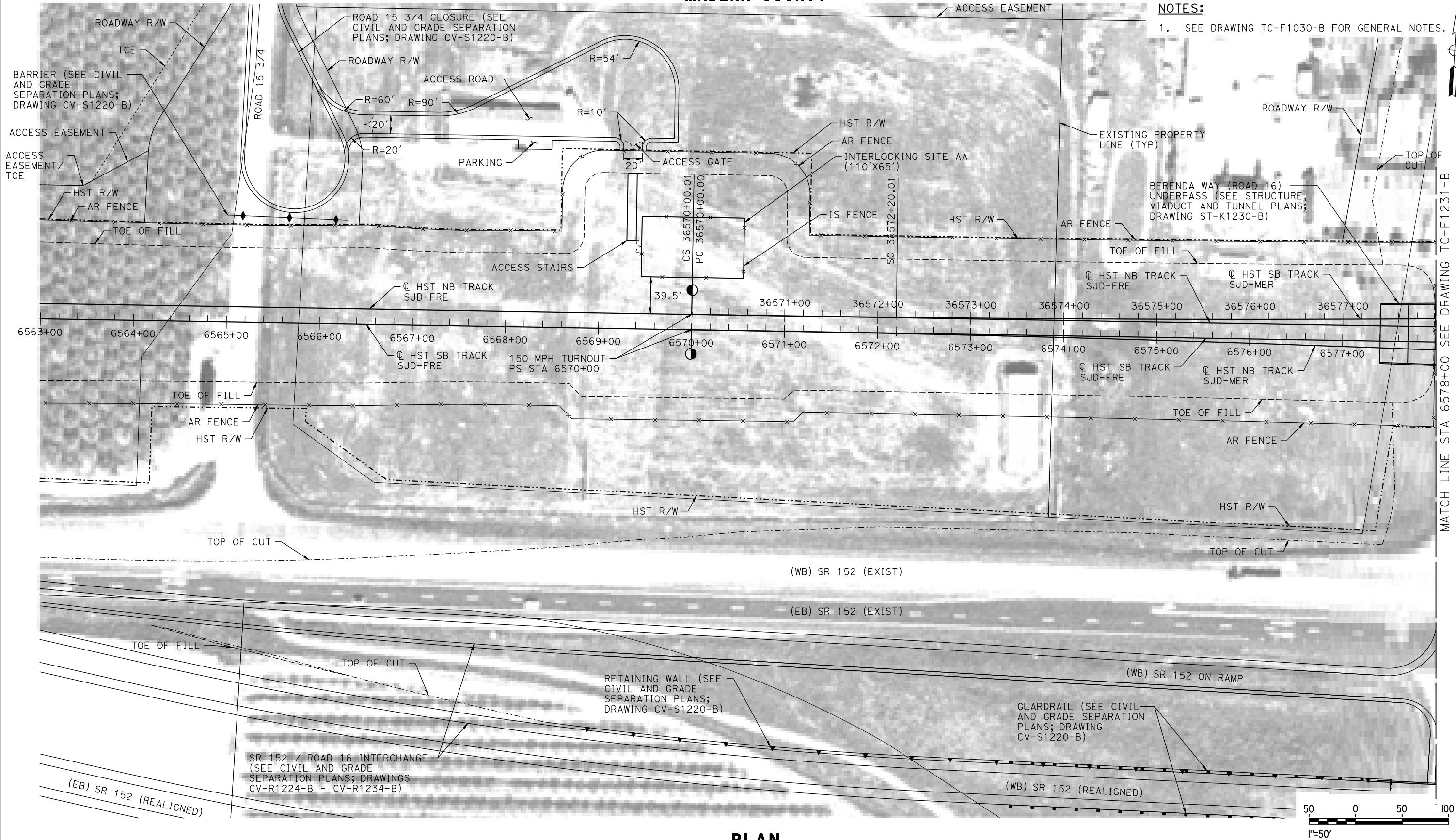
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6449+00

CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1202-B
SCALE
AS SHOWN
SHEET NO.

MADERA COUNTY



NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

MATCH LINE STA 6578+00 SEE DRAWING TC-F1231-B

PLAN

18-MAR-2016 09:46 MF-TC-F1230-B.dgn

00051334

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

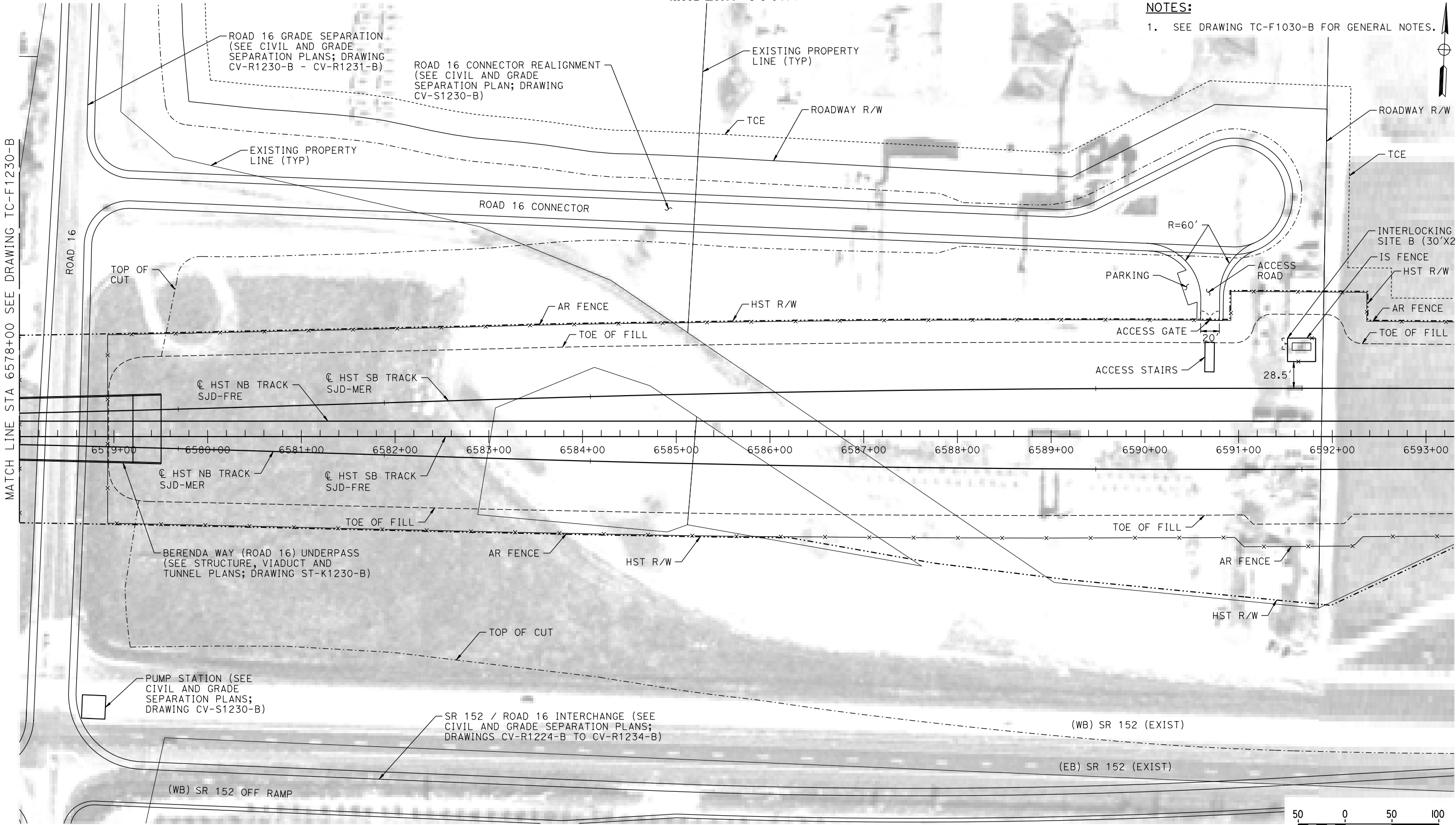
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 6570+00

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1230-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

DESIGNED BY
A. GURA
DRAWN BY
J. CASTILLO
CHECKED BY
K. MA
IN CHARGE
C. LEMLEY
DATE
09/09/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6591+65

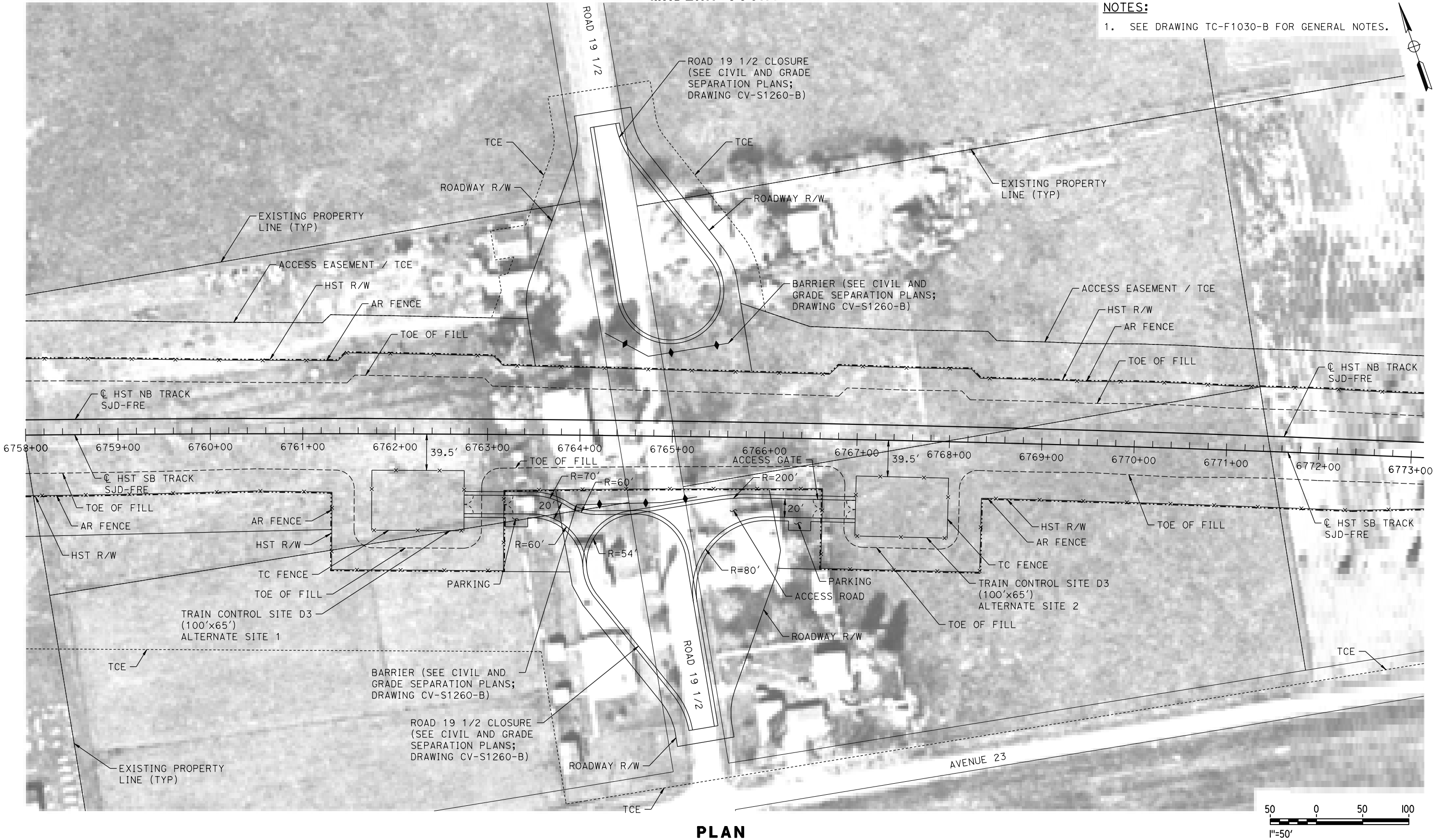
CONTRACT NO.
HSR08-05
DRAWING NO.
TC-F1231-B
SCALE
AS SHOWN
SHEET NO.

02-SEP-2016 16:21:10 MF-TC-F1231-B.dgn

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

18-MAR-2016 09:46 MF-TC-F1260-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1260-B |
| SCALE AS SHOWN |
| SHEET NO. |

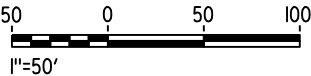
MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN



MF-TC-F1270-B.dgn

08-MAR-2016 1:22

p005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

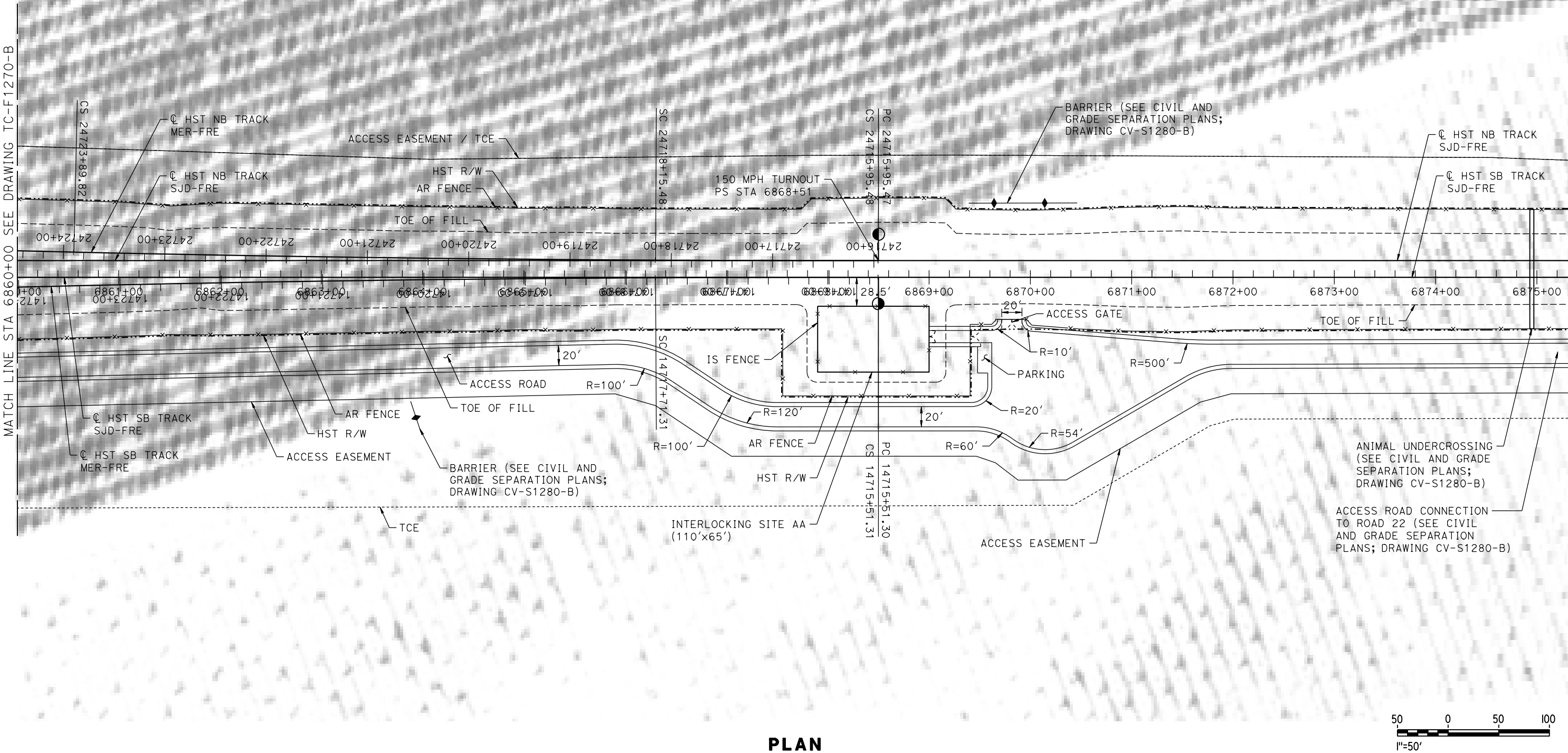
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6846+80

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1270-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

MF-TC-F1280-B.dgn

08-MAR-2016 1:23

p005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



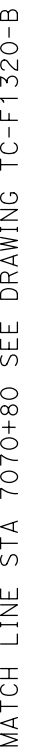
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 6868+50

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1280-B |
| SCALE AS SHOWN |
| SHEET NO. |

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

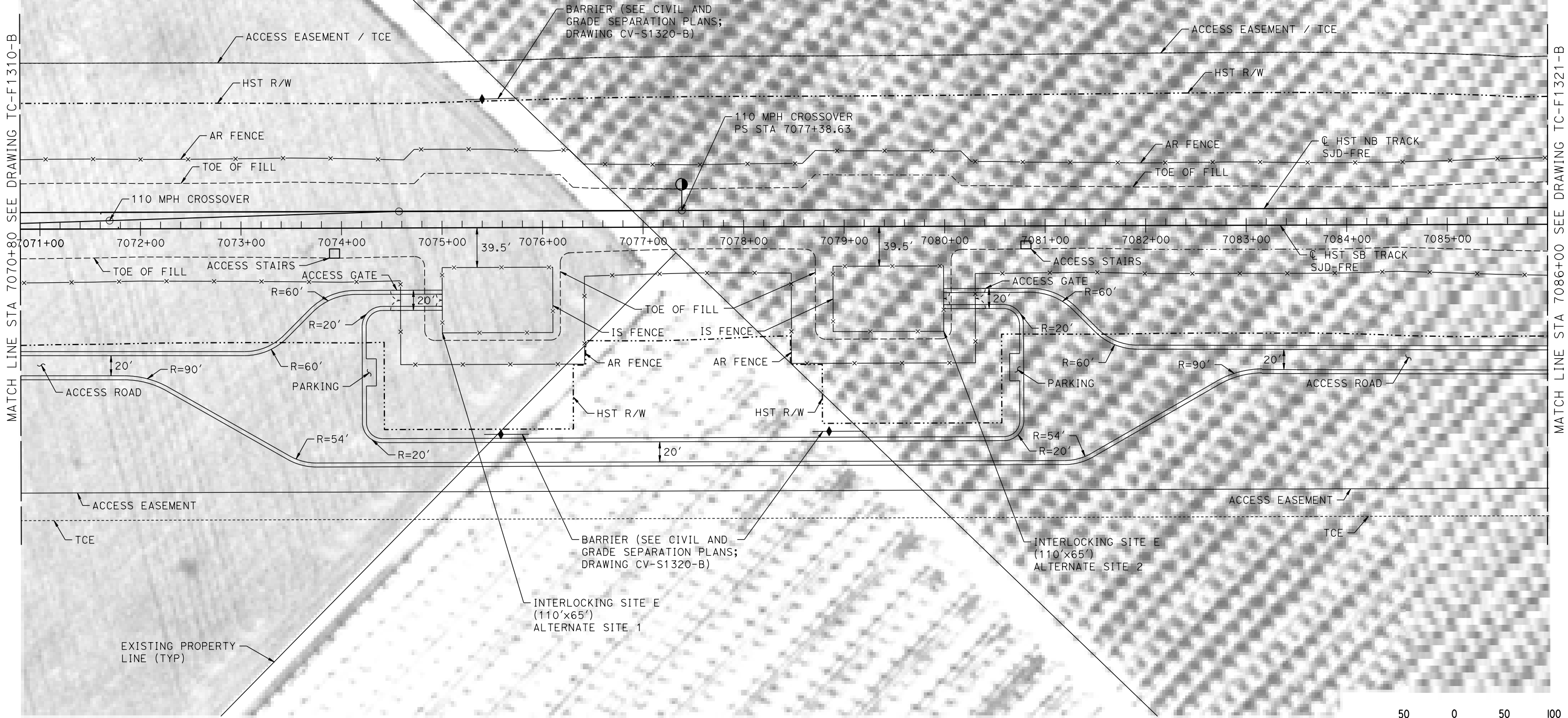
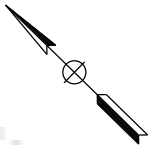


| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TC-F1310-B |
| SCALE | AS SHOWN |
| SHEET NO. | |

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN



08-MAR-2016 11:24 MF-TC-F1320-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



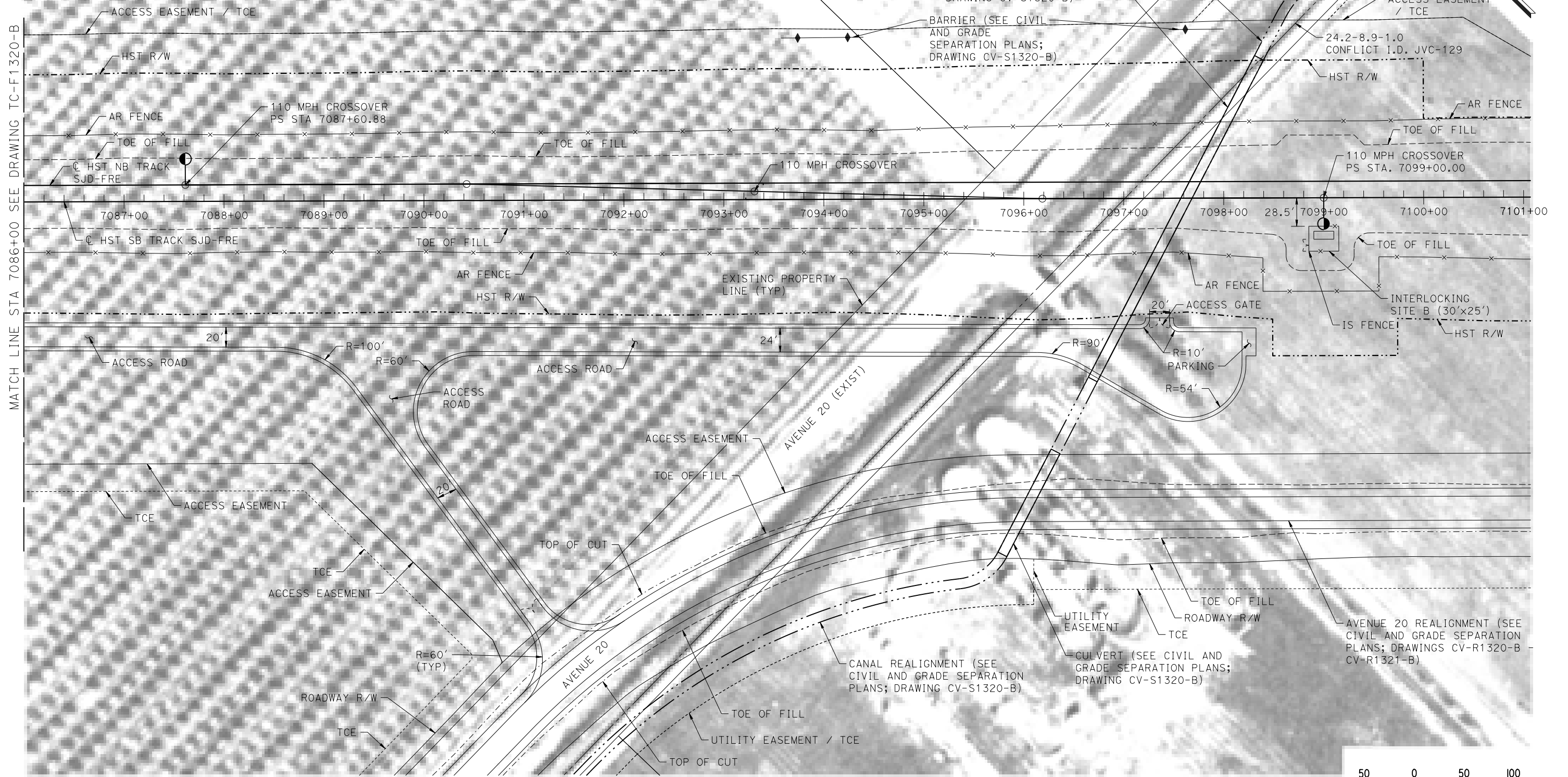
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E ALT 1 @ 7075+50 & ALT 2 @ 7079+50

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1320-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN



| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

| | |
|-------------|-------------|
| DESIGNED BY | A. GURA |
| DRAWN BY | J. CASTILLO |
| CHECKED BY | A. GURA |
| IN CHARGE | C. LEMLEY |
| DATE | 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 7099+00

CONTRACT NO.
HSR08-05

DRAWING NO.
TC-F1321-B

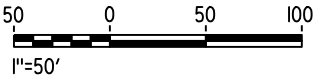
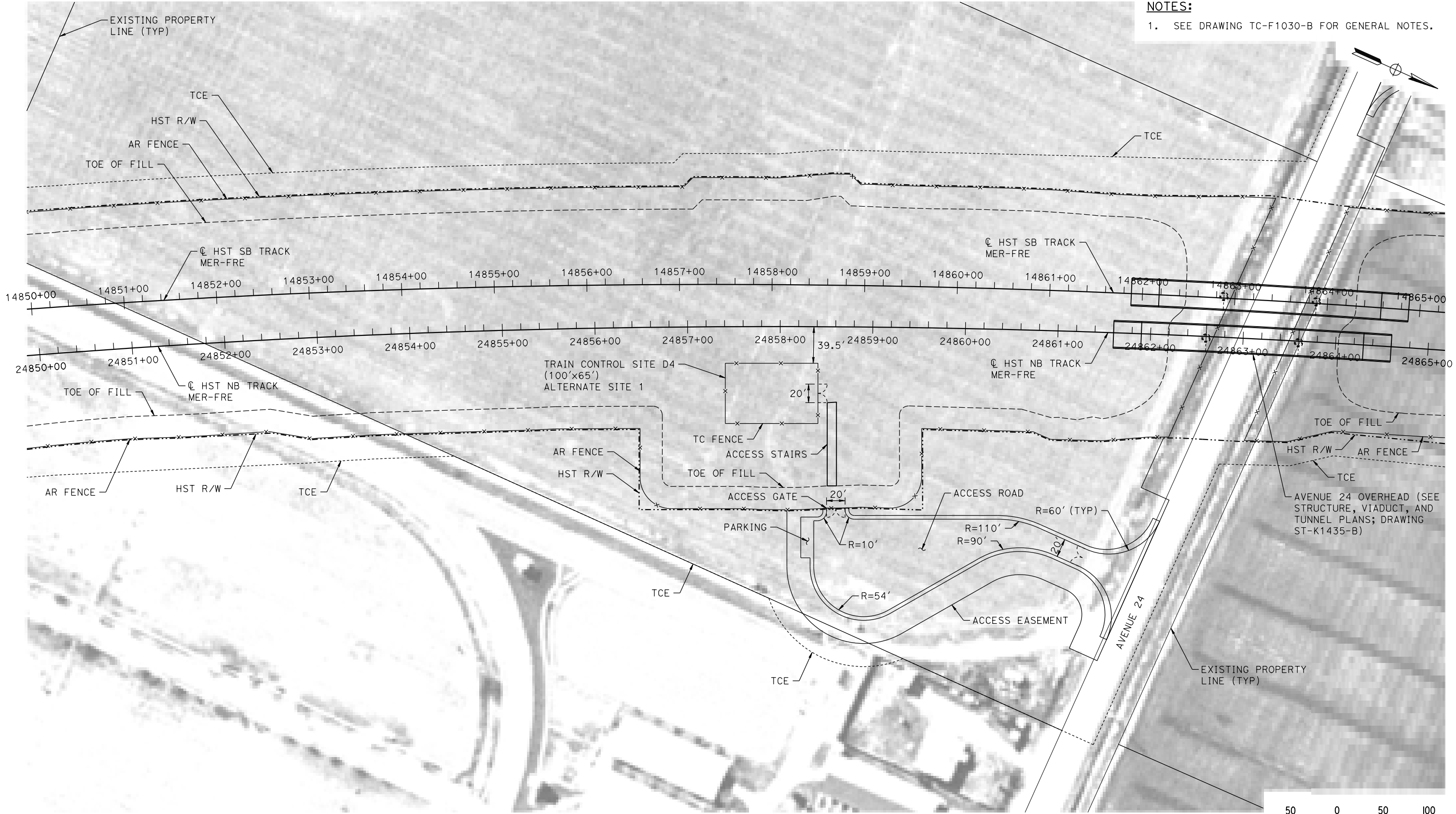
SCALE
AS SHOWN

SHEET NO.

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

08-MAR-2016 11:24 MF-TC-F1430-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

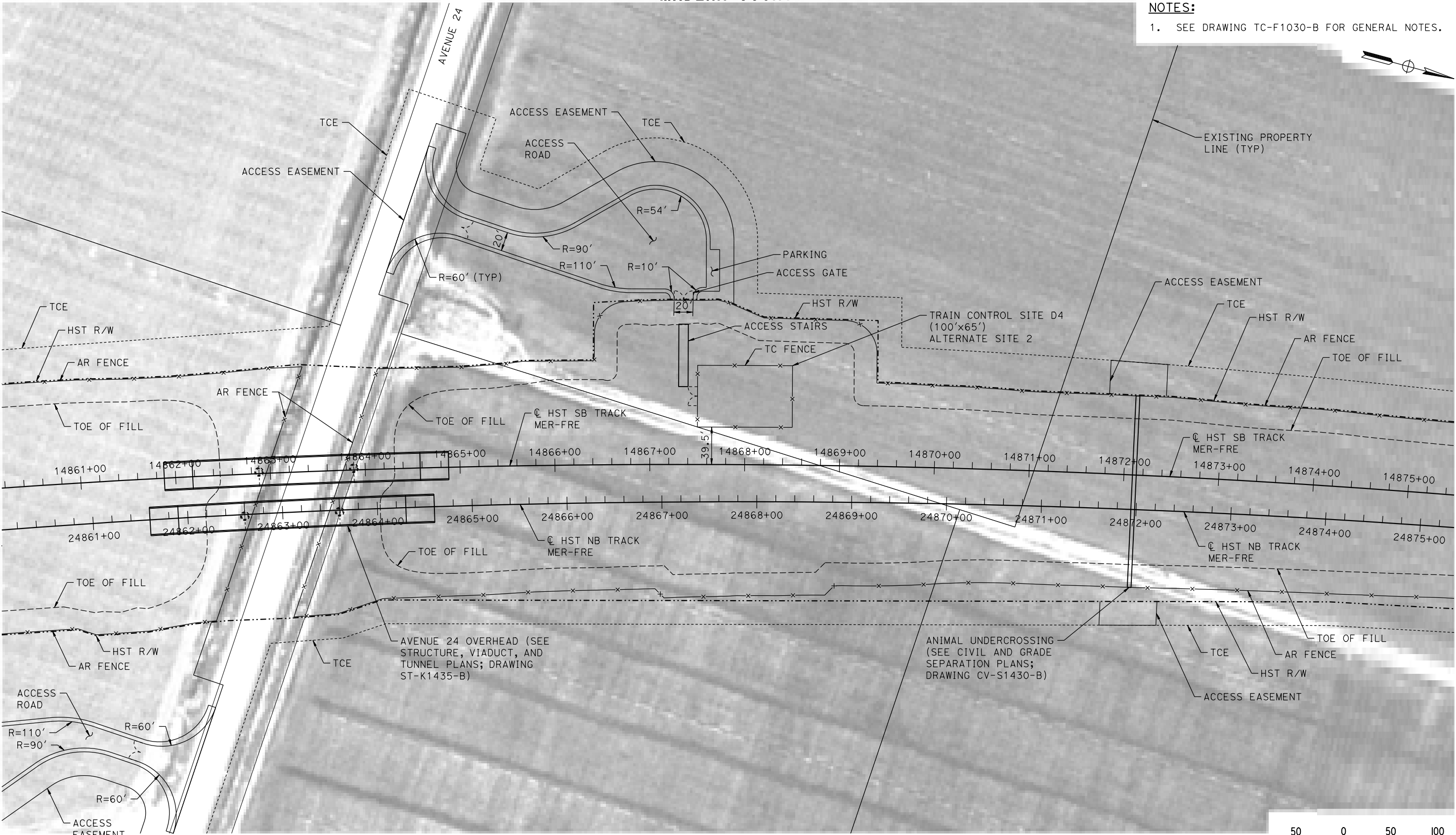
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D4 ALTERNATE SITE 1

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1430-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

08-MAR-2016 11:25 MF-TC-F1431-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

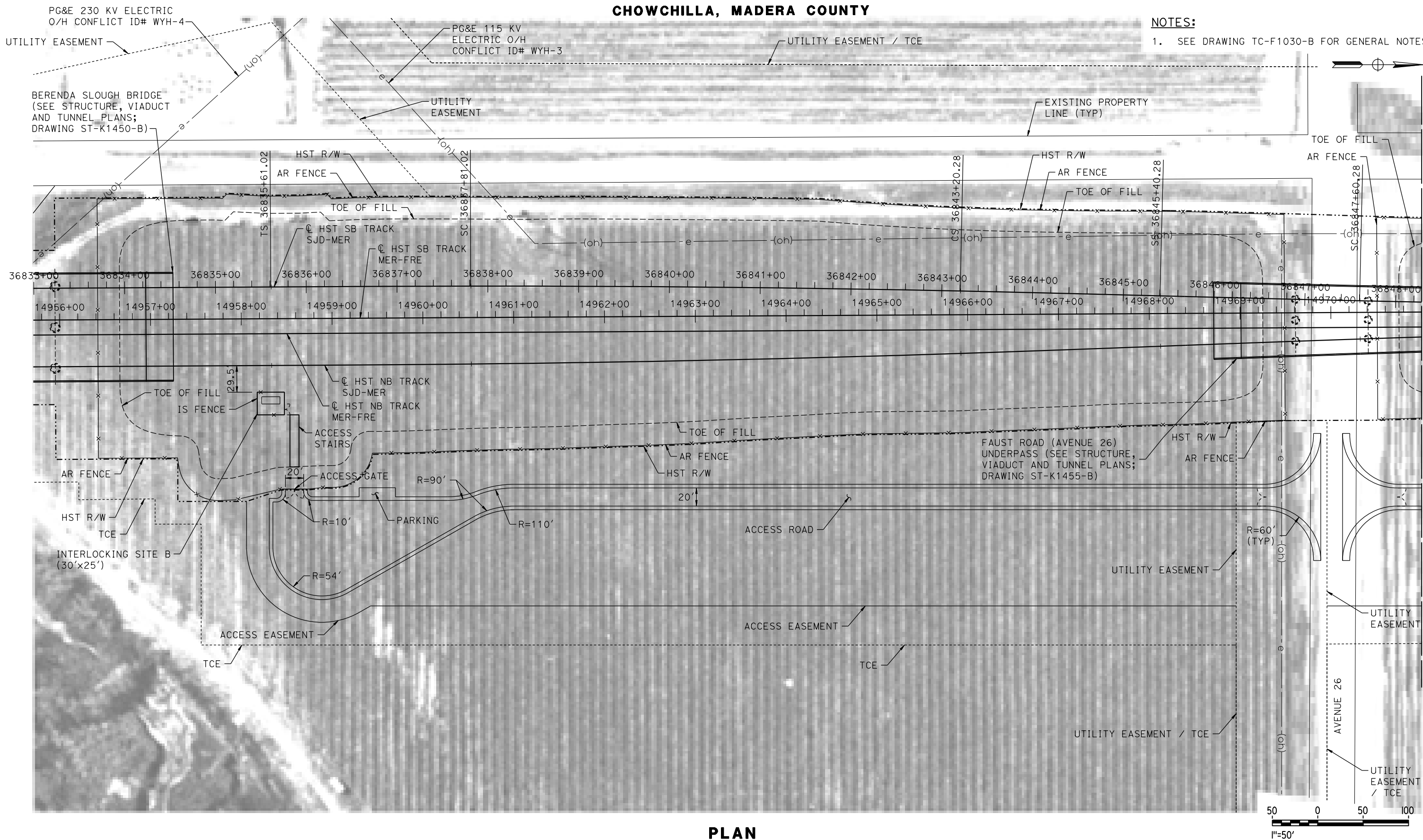
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D4 ALTERNATE SITE 2

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1431-B |
| SCALE AS SHOWN |
| SHEET NO. |



18-MAR-2016 09:47 MF-TC-F1450-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



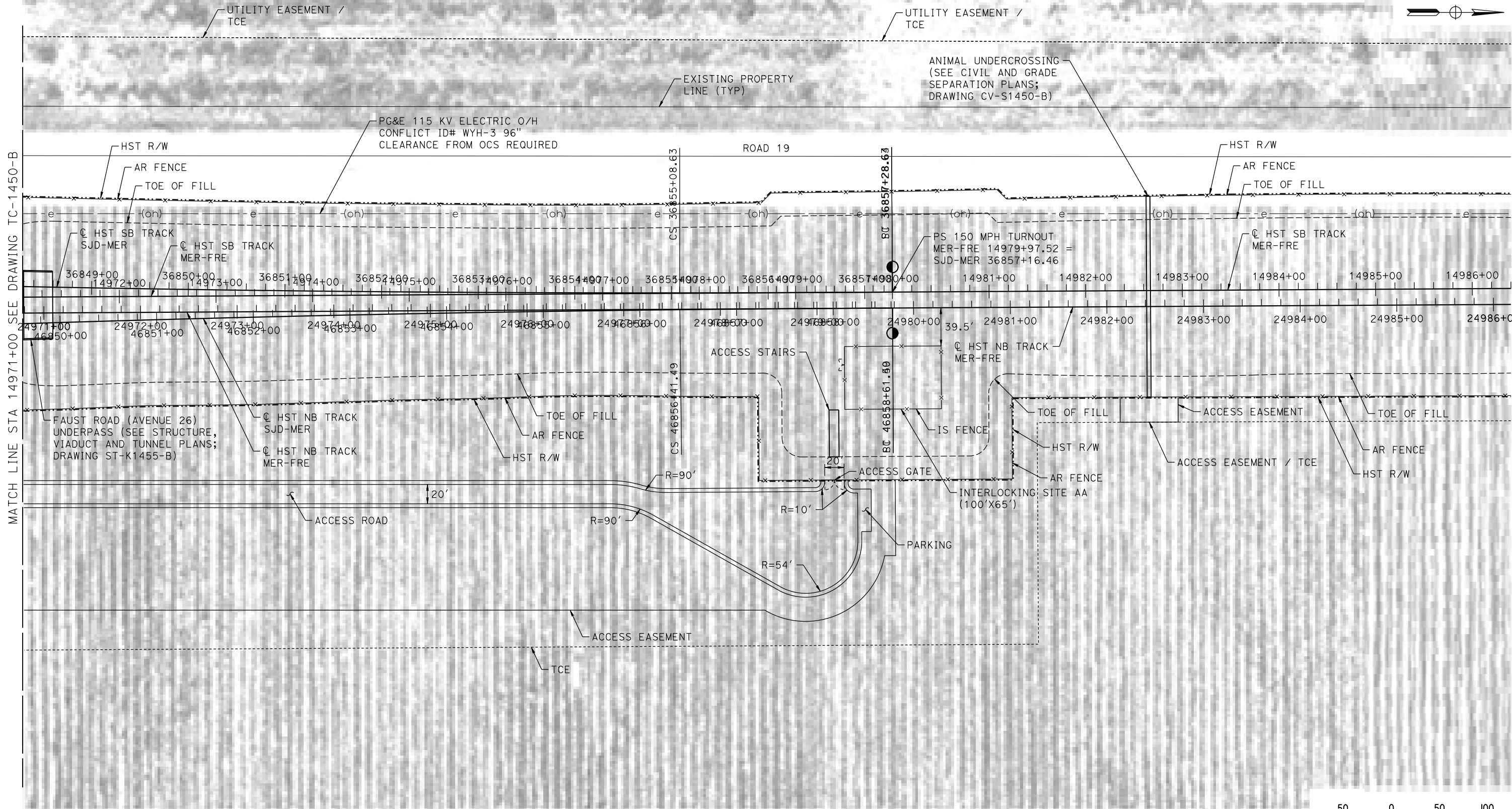
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 14958+30

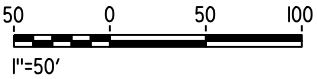
| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1450-B |
| SCALE AS SHOWN |
| SHEET NO. |

MADERA COUNTY

NOTES:
1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN



MF-TC-F1451-B.dgn
08-MAR-2016 11:26
p005133a

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

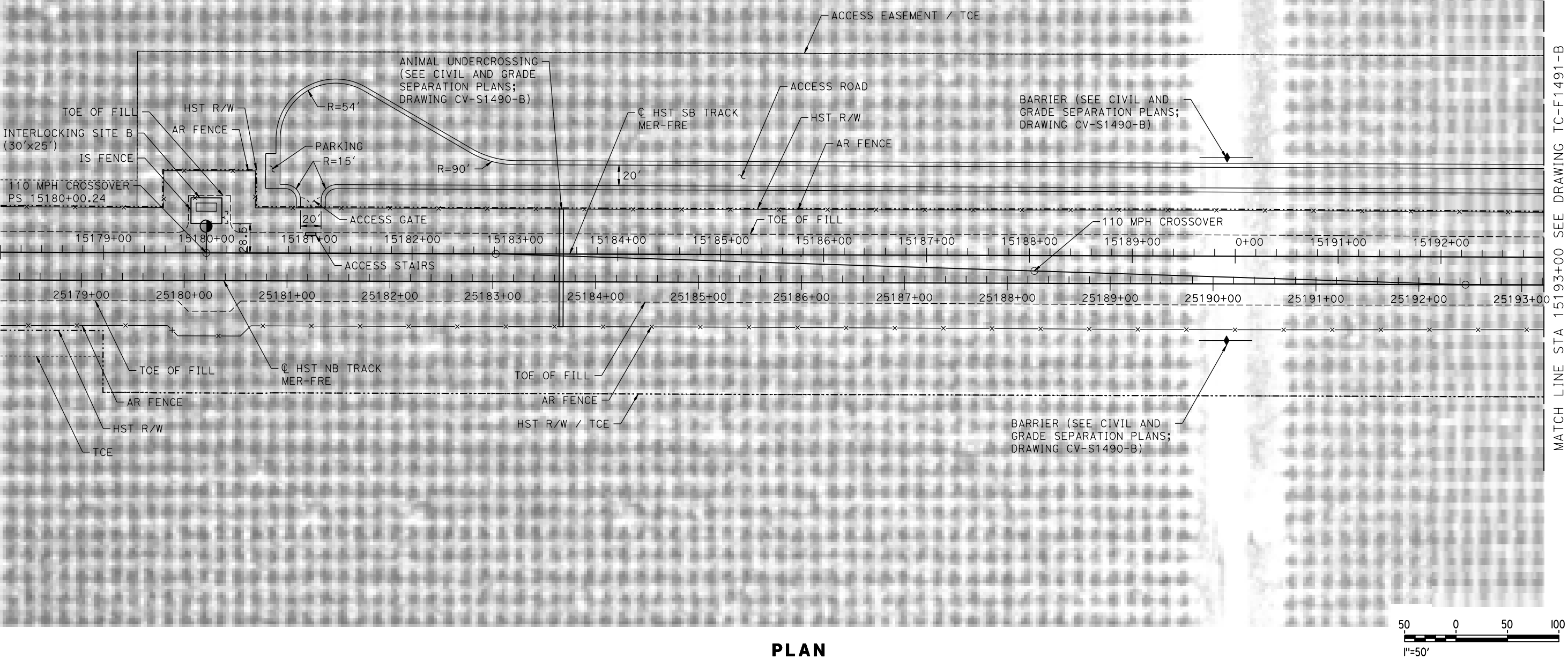
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 14980+00

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1451-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



MATCH LINE STA 15193+00 SEE DRAWING TC-F1491-B

08-MAR-2016 1:26 MF-TC-F1490-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



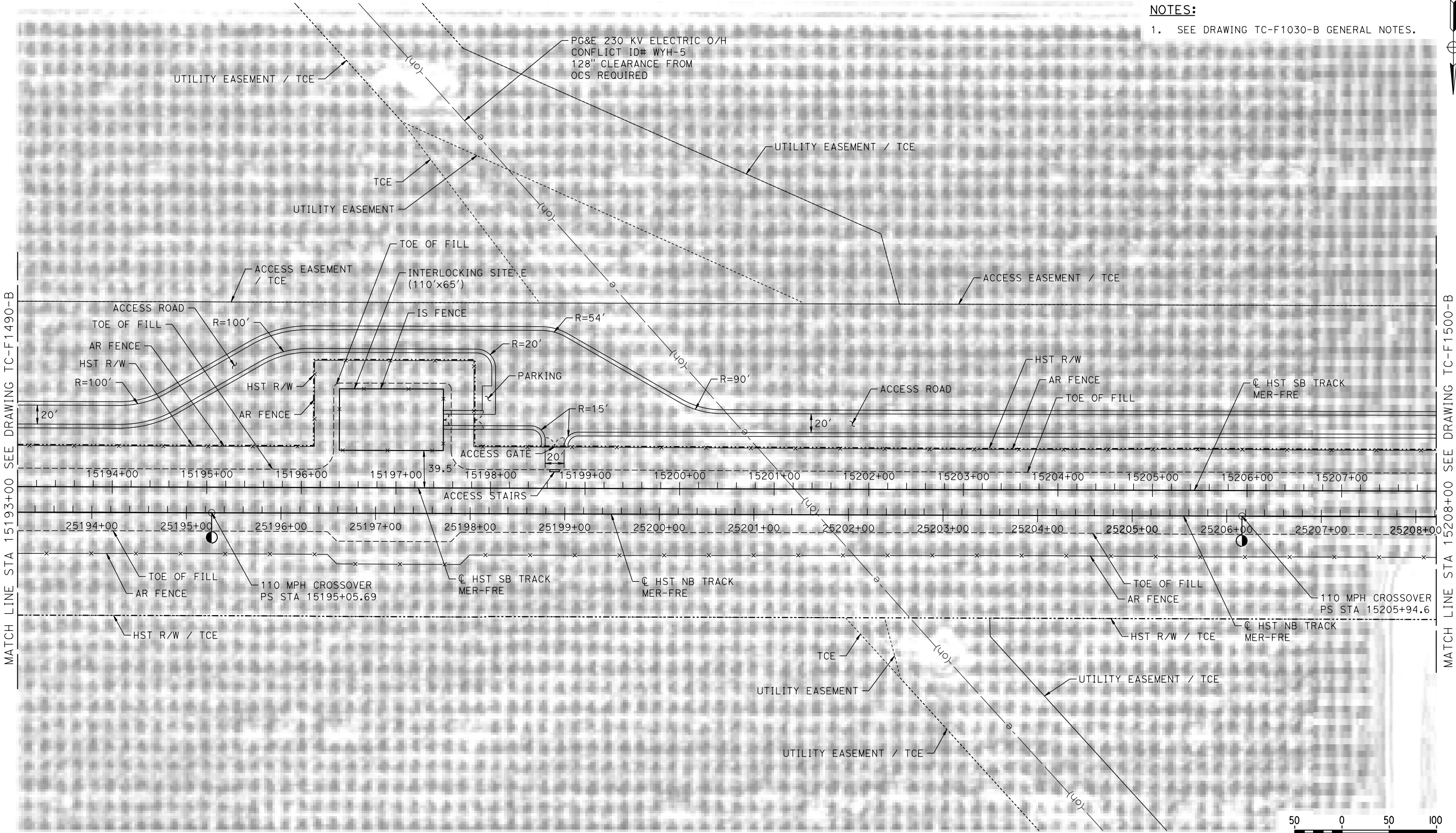
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15180+00

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1490-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:
1. SEE DRAWING TC-F1030-B GENERAL NOTES.



PLAN



18-MAR-2016 09:47 MF-TC-F1491-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E @ 15197+00

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1491-B |
| SCALE AS SHOWN |
| SHEET NO. |

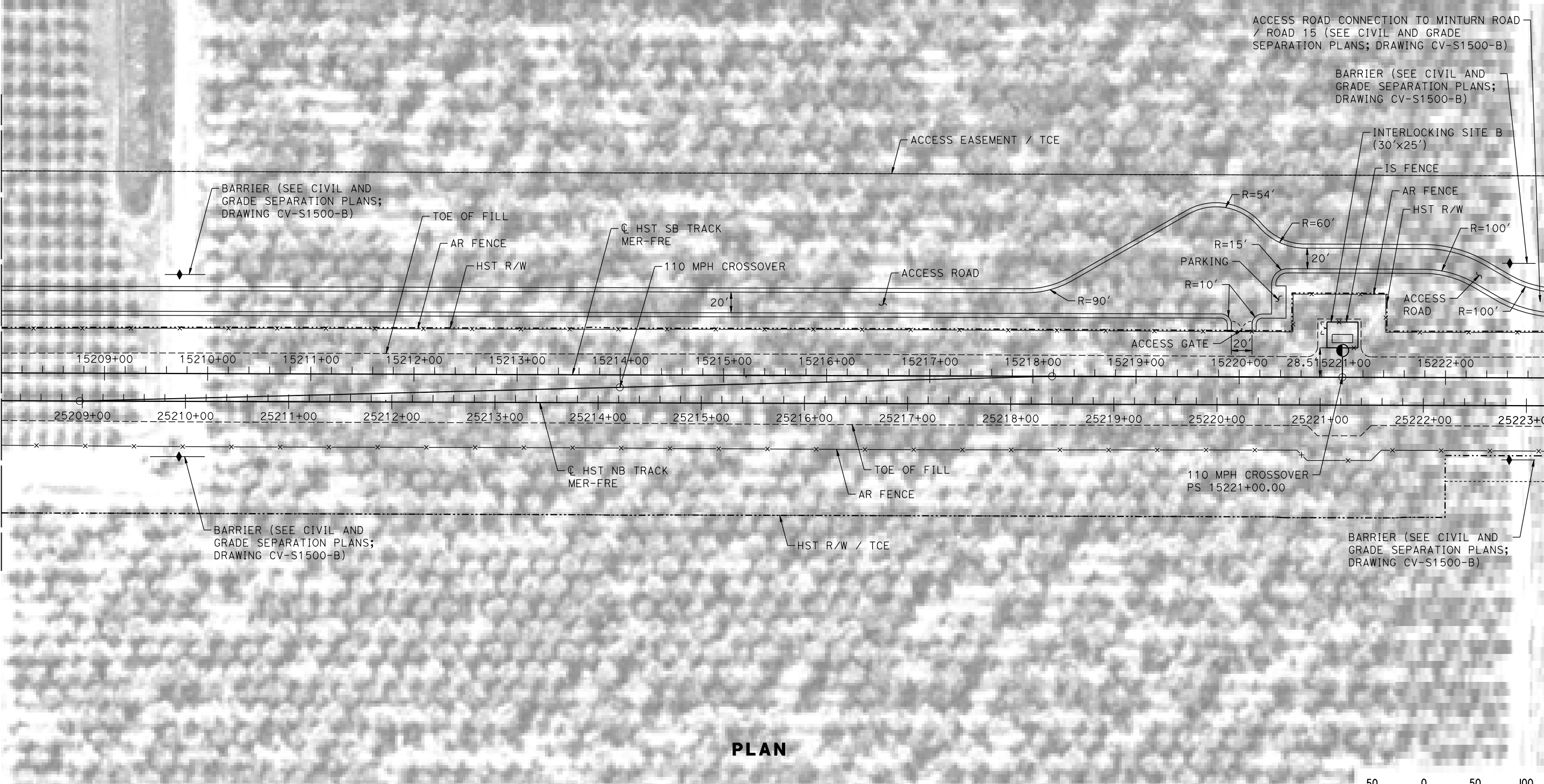
MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



MATCH LINE STA 15208+00 SEE DRAWING TC-F1491-B



PLAN

08-MAR-2016 1:27 MF-TC-F1500-B.dgn

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|-------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



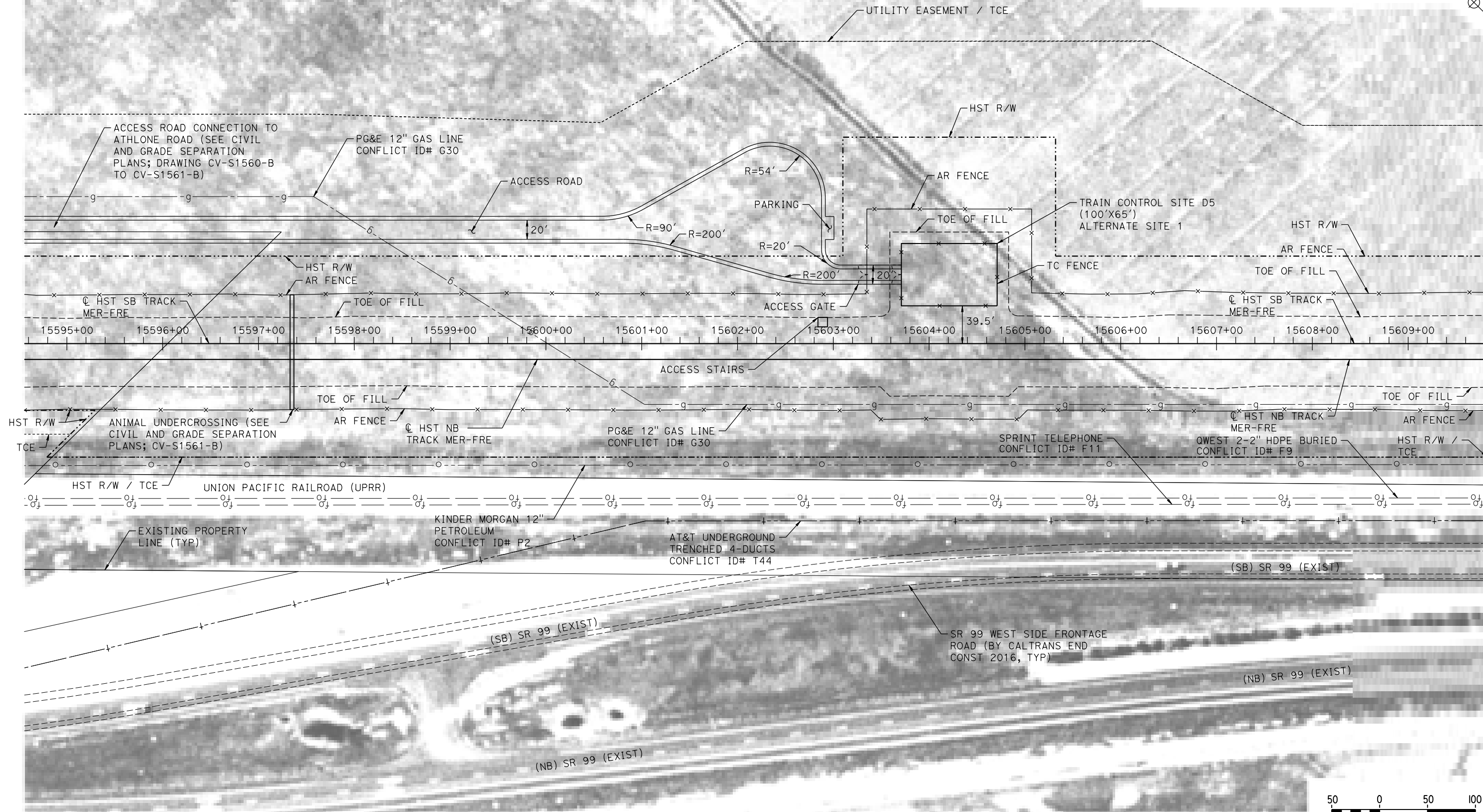
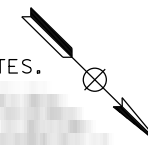
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15221+00

| |
|---------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1500-B |
| SCALE AS SHOWN |
| SHEET NO. |

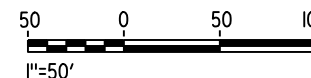
MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN



MF-TC-F1560-B.dgn

08-MAR-2016 11:27

0005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

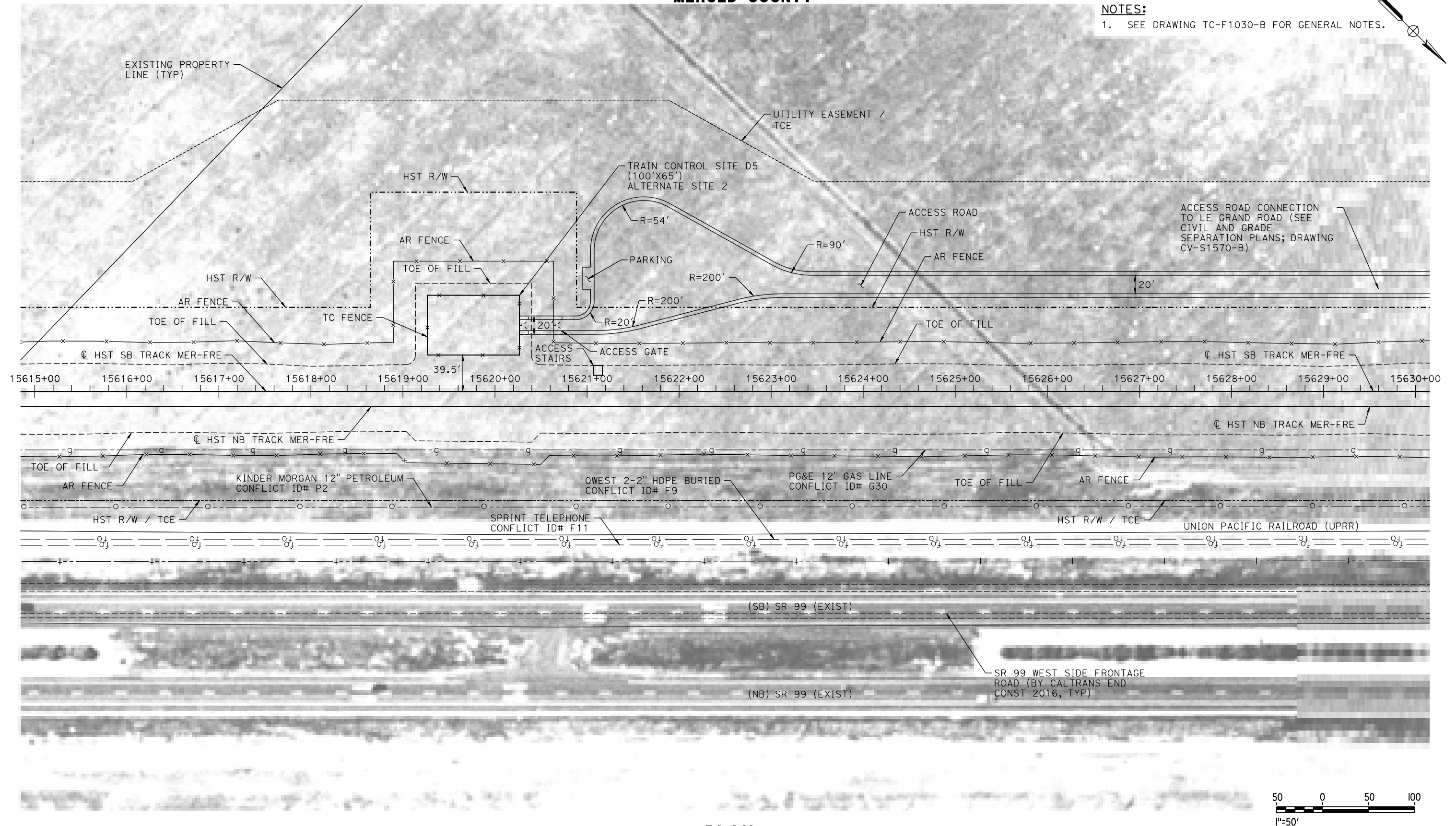
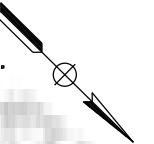
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D5 ALTERNATE SITE 1

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1560-B |
| SCALE AS SHOWN |
| SHEET NO. |

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

MF-TC-F1570-B.dgn

08-MAR-2016 11:28

p005133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------------------|
| DESIGNED BY A. GURA |
| DRAWN BY J. CASTILLO |
| CHECKED BY A. GURA |
| IN CHARGE C. LEMLEY |
| DATE 03/18/2016 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

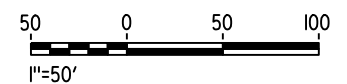


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D5 ALTERNATE SITE 2

| |
|----------------------------------|
| CONTRACT NO. HSR08-05 |
| DRAWING NO. TC-F1570-B |
| SCALE AS SHOWN |
| SHEET NO. |

AL NOTES.



| | |
|--------------|------------|
| CONTRACT NO. | HSR08-05 |
| DRAWING NO. | TC-F1640-B |
| SCALE | AS SHOWN |
| SHEET NO. | |

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

| | | | | | |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |