

CALIFORNIA HIGH-SPEED TRAIN

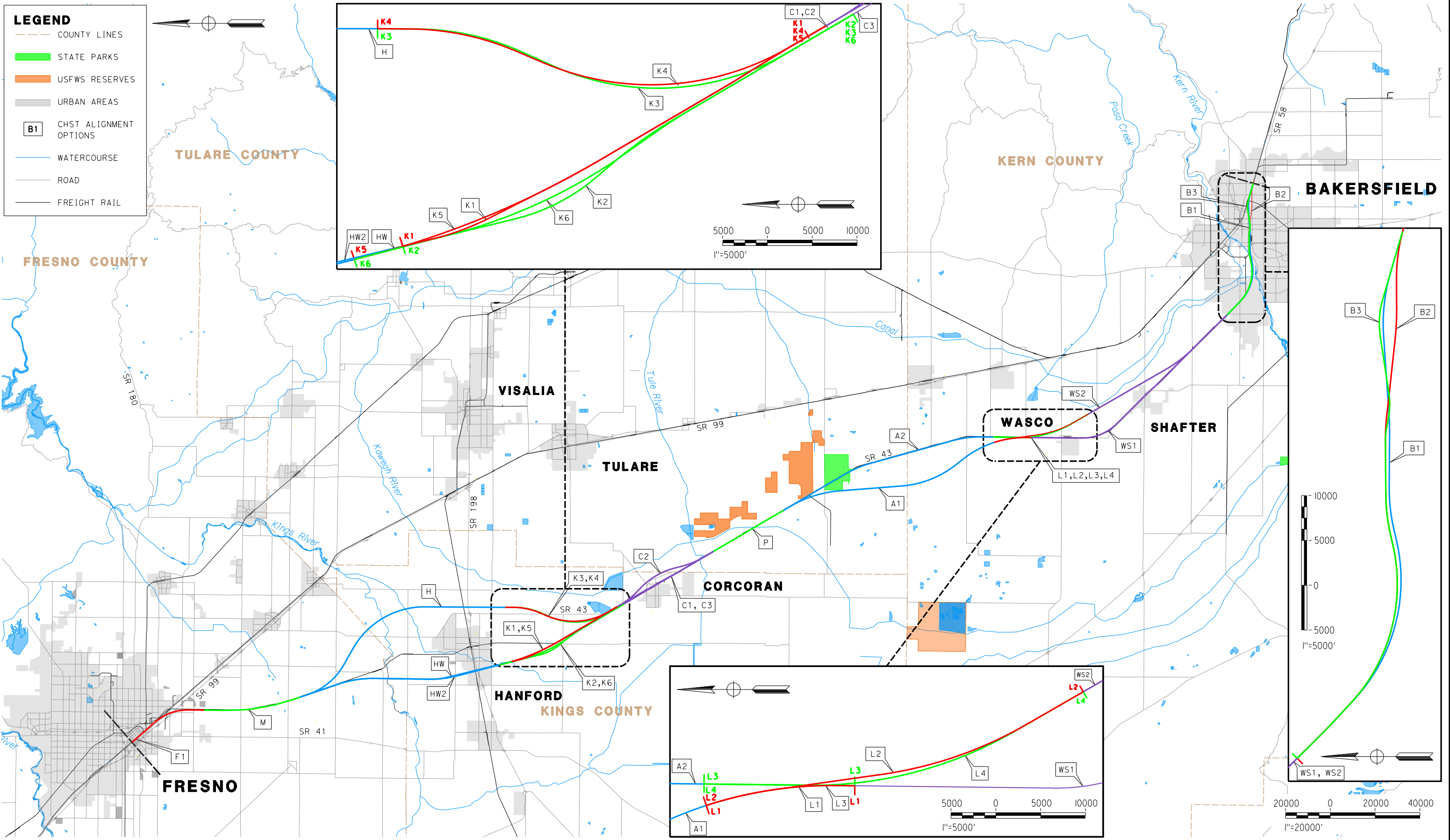
Project Environmental Impact Report/Environmental Impact Statement

Final EIR/EIS
Fresno to Bakersfield Section
Volume III:
Alignments and Other Plans
Section A
Alignment Plans
Part 1 of 2

April 2014

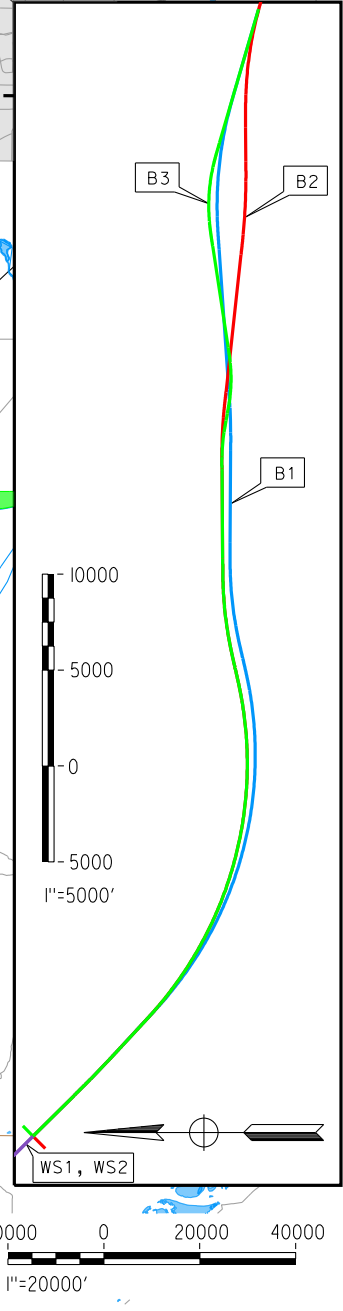
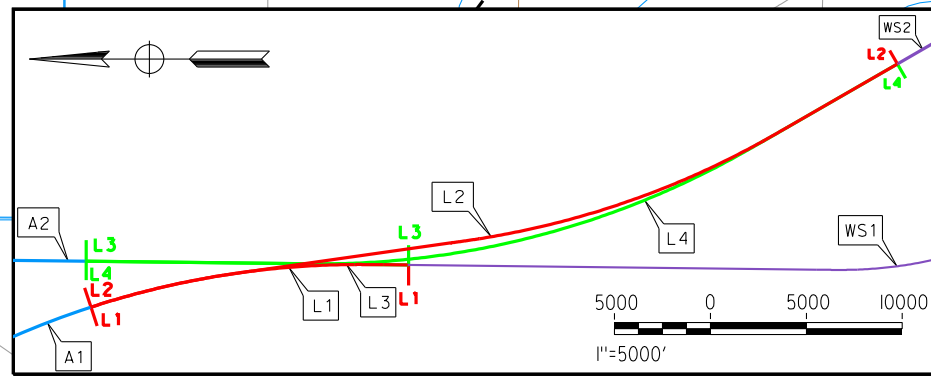
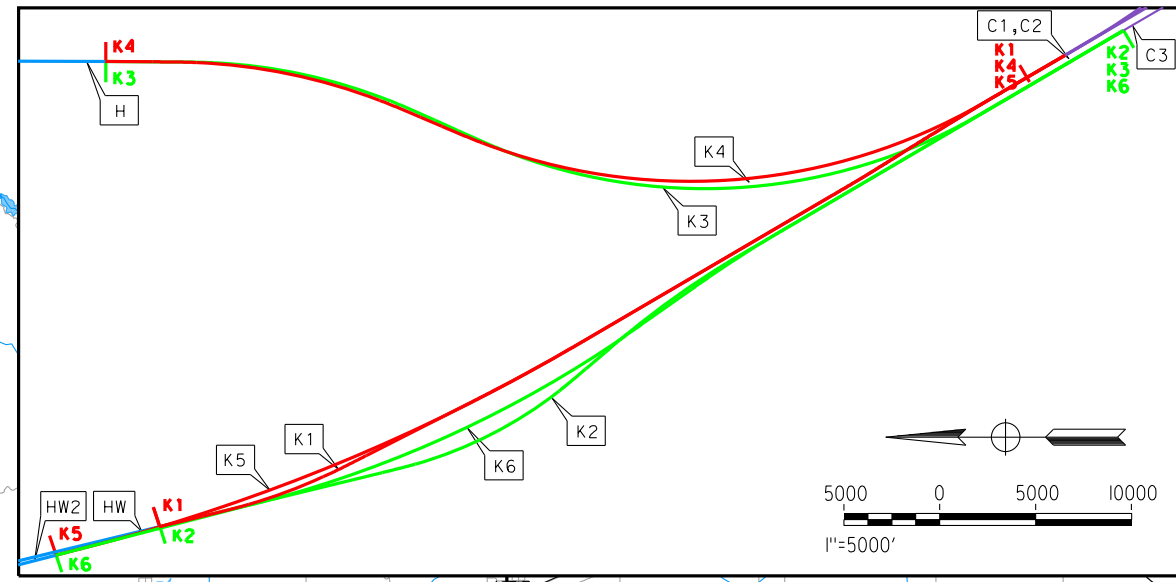


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LEGEND

- COUNTY LINES
- STATE PARKS
- USFWS RESERVES
- URBAN AREAS
- B1 CHST ALIGNMENT OPTIONS
- WATERCOURSE
- ROAD
- FREIGHT RAIL



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

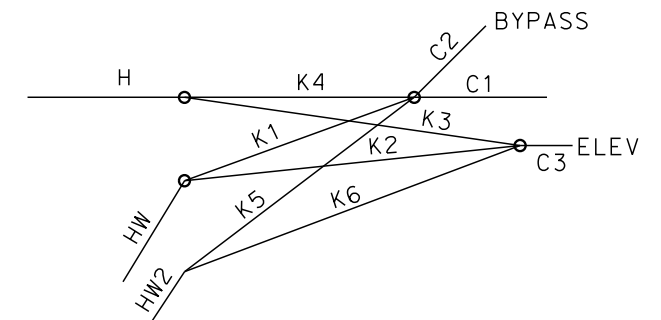


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

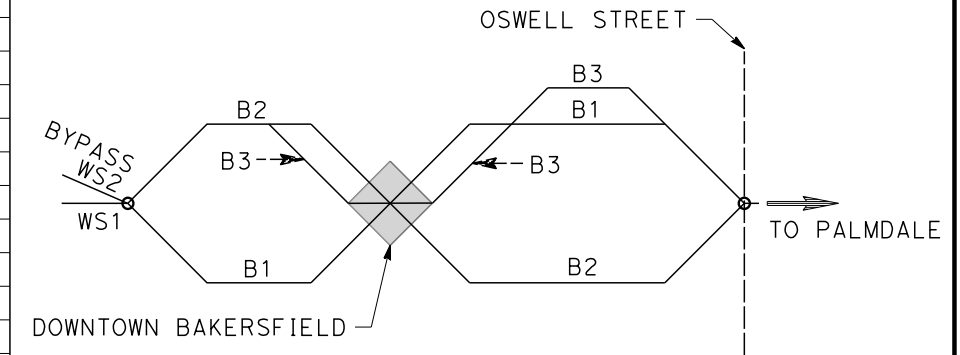
ALIGNMENT
LOCATION MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0001
SCALE
AS SHOWN
SHEET NO.
1 OF 16

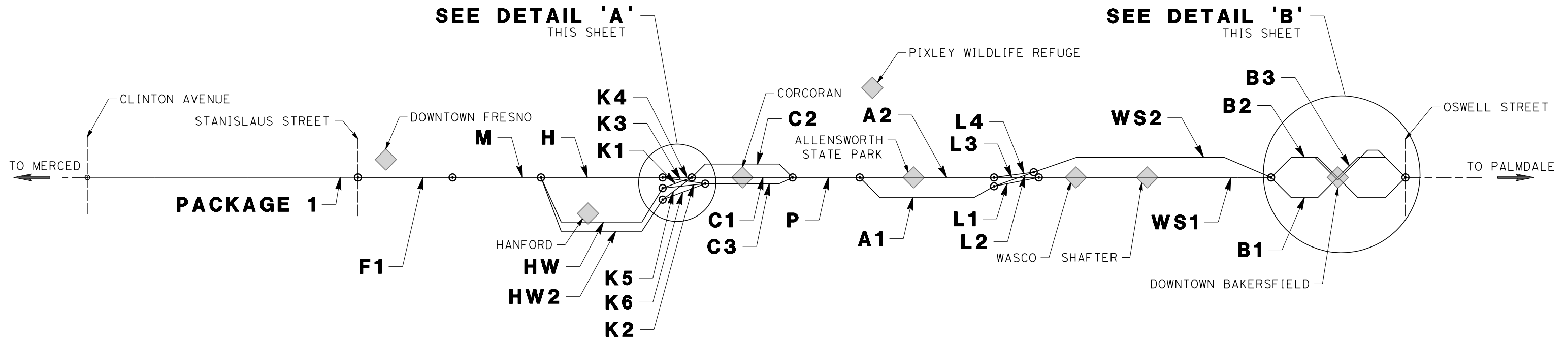
SUBSECTION CODE	NAME	LENGTH (MI)	EIR-EIS ALTERNATIVE
F1	FRESNO SUBSECTION	7.00	BNSF
M	MONMOUTH SUBSECTION	8.24	BNSF
H	HANFORD SUBSECTION	20.45	BNSF (HANFORD EAST)
HW	HANFORD WEST BYPASS SUBSECTION	18.27	HANFORD WEST BYPASS 1 & 2
HW2	HANFORD WEST BYPASS SUBSECTION	17.22	HANFORD WEST BYPASS 1 & 2 MODIFIED
K1	KAWEAH SUBSECTION	10.12	HANFORD WEST BYPASS 2 (AT-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K2	KAWEAH SUBSECTION	10.83	HANFORD WEST BYPASS 1 (AT-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K3	KAWEAH SUBSECTION	10.61	BNSF (HANFORD EAST) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K4	KAWEAH SUBSECTION	9.92	BNSF (HANFORD EAST) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K5	KAWEAH SUBSECTION	11.17	HANFORD WEST BYPASS 2 MODIFIED (BELOW-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K6	KAWEAH SUBSECTION	11.84	HANFORD WEST BYPASS 1 MODIFIED (BELOW-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
C1	CORCORAN SUBSECTION	9.36	CORCORAN ELEVATED
C2	CORCORAN BYPASS SUBSECTION	9.49	CORCORAN BYPASS
C3	CORCORAN SUBSECTION	8.74	BNSF (THROUGH CORCORAN)
P	PIXLEY SUBSECTION	6.88	BNSF
A1	ALLENSWORTH BYPASS SUBSECTION	19.05	ALLENSWORTH BYPASS
A2	THROUGH ALLENSWORTH SUBSECTION	19.03	BNSF (THROUGH ALLENSWORTH)
L1	POSO CREEK SUBSECTION	3.18	ALLENSWORTH BYPASS (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L2	POSO CREEK SUBSECTION	8.41	ALLENSWORTH BYPASS (CONNECTS TO WASCO-SHAFTER BYPASS)
L3	POSO CREEK SUBSECTION	3.18	BNSF (THROUGH ALLENSWORTH) (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L4	POSO CREEK SUBSECTION	8.43	BNSF (THROUGH ALLENSWORTH) (CONNECTS TO WASCO-SHAFTER BYPASS)
WS1	THROUGH WASCO-SHAFTER SUBSECTION	20.63	BNSF (THROUGH WASCO-SHAFTER)
WS2	WASCO-SHAFTER BYPASS SUBSECTION	14.49	WASCO-SHAFTER BYPASS
B1	BAKERSFIELD URBAN SUBSECTION	11.95	BNSF (BAKERSFIELD NORTH)
B2	BAKERSFIELD URBAN SUBSECTION	11.88	BAKERSFIELD SOUTH
B3	BAKERSFIELD URBAN SUBSECTION	11.95	BAKERSFIELD HYBRID



DETAIL 'A'



DETAIL 'B'



\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALIGNMENT
ALIGNMENT SUBSECTION DIAGRAM

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0002
SCALE
NTS
SHEET NO.
2 OF 16

GENERAL SHEETS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0001	ALIGNMENT - LOCATION MAP	SHEET 1 OF 16	1
CB0002	ALIGNMENT - ALIGNMENT SUBSECTION DIAGRAM	SHEET 2 OF 16	
CB0003	ALIGNMENT - INDEX OF SHEETS - SHEET 1 OF 6	SHEET 3 OF 16	
CB0004	ALIGNMENT - INDEX OF SHEETS - SHEET 2 OF 6	SHEET 4 OF 16	
CB0005	ALIGNMENT - INDEX OF SHEETS - SHEET 3 OF 6	SHEET 5 OF 16	
CB0006	ALIGNMENT - INDEX OF SHEETS - SHEET 4 OF 6	SHEET 6 OF 16	
CB0007	ALIGNMENT - INDEX OF SHEETS - SHEET 5 OF 6	SHEET 7 OF 16	
CB0008	ALIGNMENT - INDEX OF SHEETS - SHEET 6 OF 6	SHEET 8 OF 16	
CB0010	GENERAL - ABBREVIATIONS AND LEGENDS - SHEET 1 OF 2	SHEET 9 OF 16	
CB0011	GENERAL - ABBREVIATIONS AND LEGENDS - SHEET 2 OF 2	SHEET 10 OF 16	
CB0012	ALIGNMENT - CURVE DATA - SHEET 1 OF 2	SHEET 11 OF 16	
CB0013	ALIGNMENT - CURVE DATA - SHEET 2 OF 2	SHEET 12 OF 16	
CB0014	TPSS - LOCATION MAP	SHEET 13 OF 16	
CB0015	COMMUNICATIONS RADIO SITES - LOCATION MAP	SHEET 14 OF 16	
CB0016	WILDLIFE CROSSINGS - LOCATION MAP	SHEET 15 OF 16	
CB0017	TRACTION POWER FACILITY CROSS OVER AND STATION LOCATION EXHIBIT	SHEET 16 OF 16	

REFER TO ALIGNMENT PLANS - PART 1 OF 2

ALIGNMENT F1 - FRESNO SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1650	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 257+24 TO 627+07 - KEY MAP	SHEET 1 OF 24	1
CB1657	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 257+24 TO 261+00 - PLAN AND PROFILE	SHEET 2 OF 24	
CB1658	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 261+00 TO 275+00 - PLAN AND PROFILE	SHEET 3 OF 24	
CB1659	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 275+00 TO 289+00 - PLAN AND PROFILE	SHEET 4 OF 24	
CB1660	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 289+00 TO 303+00 - PLAN AND PROFILE	SHEET 5 OF 24	
CB1661	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 303+00 TO 317+25 - PLAN AND PROFILE	SHEET 6 OF 24	
CB1662	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 317+25 TO 345+00 - PLAN AND PROFILE	SHEET 7 OF 24	
CB1663	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 345+00 TO 373+00 - PLAN AND PROFILE	SHEET 8 OF 24	
CB1664	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 373+00 TO 401+00 - PLAN AND PROFILE	SHEET 9 OF 24	
CB1665	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 401+00 TO 429+00 - PLAN AND PROFILE	SHEET 10 OF 24	
CB1666	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 429+00 TO 457+00 - PLAN AND PROFILE	SHEET 11 OF 24	
CB1667	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 457+00 TO 485+00 - PLAN AND PROFILE	SHEET 12 OF 24	
CB1668	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 485+00 TO 513+00 - PLAN AND PROFILE	SHEET 13 OF 24	
CB1669	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 513+00 TO 541+00 - PLAN AND PROFILE	SHEET 14 OF 24	
CB1670	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 541+00 TO 569+00 - PLAN AND PROFILE	SHEET 15 OF 24	
CB1671	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 569+00 TO 598+00 - PLAN AND PROFILE	SHEET 16 OF 24	
CB1672	FRESNO SUBSECTION - ALIGNMENT F1 - STA. 598+00 TO 627+07 - PLAN AND PROFILE	SHEET 17 OF 24	
CB3010	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 18 OF 24	
CB3011	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 19 OF 24	
CB3012	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 20 OF 24	
CB3013	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 21 OF 24	
CB3014	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 22 OF 24	
CB3015	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 23 OF 24	
CB3016	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 24 OF 24	

ALIGNMENT M - MONMOUTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1790	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 630+26 TO 1065+07 - KEY MAP	SHEET 1 OF 11	1
CB1791	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 630+26 TO 687+00 - PLAN AND PROFILE	SHEET 2 OF 11	
CB1792	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 687+00 TO 743+00 - PLAN AND PROFILE	SHEET 3 OF 11	
CB1793	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 743+00 TO 799+00 - PLAN AND PROFILE	SHEET 4 OF 11	
CB1794	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 799+00 TO 855+00 - PLAN AND PROFILE	SHEET 5 OF 11	
CB1795	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 855+00 TO 911+00 - PLAN AND PROFILE	SHEET 6 OF 11	
CB1796	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 911+00 TO 967+00 - PLAN AND PROFILE	SHEET 7 OF 11	
CB1797	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 967+00 TO 1023+00 - PLAN AND PROFILE	SHEET 8 OF 11	
CB1798	MONMOUTH SUBSECTION - ALIGNMENT M - STA. 1023+00 TO 1065+07 - PLAN AND PROFILE	SHEET 9 OF 11	
CB3140	MONMOUTH SUBSECTION - ALIGNMENT M - CROSS SECTIONS	SHEET 10 OF 11	
CB3141	MONMOUTH SUBSECTION - ALIGNMENT M - CROSS SECTIONS	SHEET 11 OF 11	

ALIGNMENT H - HANFORD SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1800	HANFORD SUBSECTION - ALIGNMENT H - STA. 1065+07 TO 2144+63 - KEY MAP	SHEET 1 OF 31	1
CB1808	HANFORD SUBSECTION - ALIGNMENT H - STA. 1065+07 TO 1080+00 - PLAN AND PROFILE	SHEET 2 OF 31	
CB1809	HANFORD SUBSECTION - ALIGNMENT H - STA. 1080+00 TO 1136+00 - PLAN AND PROFILE	SHEET 3 OF 31	
CB1810	HANFORD SUBSECTION - ALIGNMENT H - STA. 1136+00 TO 1192+00 - PLAN AND PROFILE	SHEET 4 OF 31	
CB1811	HANFORD SUBSECTION - ALIGNMENT H - STA. 1192+00 TO 1248+00 - PLAN AND PROFILE	SHEET 5 OF 31	
CB1812	HANFORD SUBSECTION - ALIGNMENT H - STA. 1248+00 TO 1304+00 - PLAN AND PROFILE	SHEET 6 OF 31	
CB1813	HANFORD SUBSECTION - ALIGNMENT H - STA. 1304+00 TO 1360+00 - PLAN AND PROFILE	SHEET 7 OF 31	
CB1814	HANFORD SUBSECTION - ALIGNMENT H - STA. 1360+00 TO 1416+00 - PLAN AND PROFILE	SHEET 8 OF 31	
CB1815	HANFORD SUBSECTION - ALIGNMENT H - STA. 1416+00 TO 1472+00 - PLAN AND PROFILE	SHEET 9 OF 31	
CB1816	HANFORD SUBSECTION - ALIGNMENT H - STA. 1472+00 TO 1528+00 - PLAN AND PROFILE	SHEET 10 OF 31	
CB1817	HANFORD SUBSECTION - ALIGNMENT H - STA. 1528+00 TO 1584+00 - PLAN AND PROFILE	SHEET 11 OF 31	
CB1818	HANFORD SUBSECTION - ALIGNMENT H - STA. 1584+00 TO 1640+00 - PLAN AND PROFILE	SHEET 12 OF 31	
CB1819	HANFORD SUBSECTION - ALIGNMENT H - STA. 1640+00 TO 1696+00 - PLAN AND PROFILE	SHEET 13 OF 31	
CB1820	HANFORD SUBSECTION - ALIGNMENT H - STA. 1696+00 TO 1752+00 - PLAN AND PROFILE	SHEET 14 OF 31	
CB1821	HANFORD SUBSECTION - ALIGNMENT H - STA. 1752+00 TO 1808+00 - PLAN AND PROFILE	SHEET 15 OF 31	
CB1822	HANFORD SUBSECTION - ALIGNMENT H - STA. 1808+00 TO 1864+00 - PLAN AND PROFILE	SHEET 16 OF 31	
CB1823	HANFORD SUBSECTION - ALIGNMENT H - STA. 1864+00 TO 1914+00 - PLAN AND PROFILE	SHEET 17 OF 31	
CB1824	HANFORD SUBSECTION - ALIGNMENT H - STA. 1914+00 TO 1928+00 - PLAN AND PROFILE	SHEET 18 OF 31	
CB1825	HANFORD SUBSECTION - ALIGNMENT H - STA. 1928+00 TO 1942+00 - PLAN AND PROFILE	SHEET 19 OF 31	
CB1826	HANFORD SUBSECTION - ALIGNMENT H - STA. 1942+00 TO 1956+00 - PLAN AND PROFILE	SHEET 20 OF 31	
CB1827	HANFORD SUBSECTION - ALIGNMENT H - STA. 1956+00 TO 1970+00 - PLAN AND PROFILE	SHEET 21 OF 31	
CB1828	HANFORD SUBSECTION - ALIGNMENT H - STA. 1970+00 TO 1984+00 - PLAN AND PROFILE	SHEET 22 OF 31	
CB1829	HANFORD SUBSECTION - ALIGNMENT H - STA. 1984+00 TO 2032+00 - PLAN AND PROFILE	SHEET 23 OF 31	
CB1830	HANFORD SUBSECTION - ALIGNMENT H - STA. 2032+00 TO 2088+00 - PLAN AND PROFILE	SHEET 24 OF 31	
CB1831	HANFORD SUBSECTION - ALIGNMENT H - STA. 2088+00 TO 2144+63 - PLAN AND PROFILE	SHEET 25 OF 31	
CB3151	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 26 OF 31	
CB3152	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 27 OF 31	
CB3153	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 28 OF 31	
CB3154	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 29 OF 31	
CB3155	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 30 OF 31	
CB3156	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 31 OF 31	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. TONKIN
DRAWN BY
P. LEES
CHECKED BY
A. BRUNDAGE
IN CHARGE
R. COFFIN
DATE
12/31/13

**DRAFT 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALIGNMENT
INDEX OF SHEETS
SHEET 1 OF 6

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0003
SCALE
NO SCALE
SHEET NO.
3 OF 16

ALIGNMENT HW - HANFORD WEST (AT-GRADE) BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1000	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1065+00 TO 2029+61 - KEY MAP	SHEET 1 OF 29	1
CB1001	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1065+00 TO 1089+00 - PLAN AND PROFILE	SHEET 2 OF 29	
CB1002	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1089+00 TO 1145+00 - PLAN AND PROFILE	SHEET 3 OF 29	
CB1003	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1145+00 TO 1201+00 - PLAN AND PROFILE	SHEET 4 OF 29	
CB1004	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1201+00 TO 1257+00 - PLAN AND PROFILE	SHEET 5 OF 29	
CB1005	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1257+00 TO 1313+00 - PLAN AND PROFILE	SHEET 6 OF 29	
CB1006	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1313+00 TO 1369+00 - PLAN AND PROFILE	SHEET 7 OF 29	
CB1007	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1369+00 TO 1425+00 - PLAN AND PROFILE	SHEET 8 OF 29	
CB1008	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1425+00 TO 1481+00 - PLAN AND PROFILE	SHEET 9 OF 29	
CB1009	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1481+00 TO 1537+00 - PLAN AND PROFILE	SHEET 10 OF 29	
CB1010	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1537+00 TO 1593+00 - PLAN AND PROFILE	SHEET 11 OF 29	
CB1011	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1593+00 TO 1649+00 - PLAN AND PROFILE	SHEET 12 OF 29	
CB1012	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1649+00 TO 1705+00 - PLAN AND PROFILE	SHEET 13 OF 29	
CB1023	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1705+00 TO 1761+00 - PLAN AND PROFILE	SHEET 14 OF 29	
CB1024	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1761+00 TO 1817+00 - PLAN AND PROFILE	SHEET 15 OF 29	
CB1025	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1817+00 TO 1873+00 - PLAN AND PROFILE	SHEET 16 OF 29	
CB1026	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1873+00 TO 1887+00 - PLAN AND PROFILE	SHEET 17 OF 29	
CB1027	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1887+00 TO 1943+00 - PLAN AND PROFILE	SHEET 18 OF 29	
CB1028	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1943+00 TO 1999+00 - PLAN AND PROFILE	SHEET 19 OF 29	
CB1029	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 1999+00 TO 2029+61 - PLAN AND PROFILE	SHEET 20 OF 29	
CB1030	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 2029+61 TO 2099+00 - PLAN AND PROFILE	SHEET 21 OF 29	
CB1031	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 2099+00 TO 2169+00 - PLAN AND PROFILE	SHEET 22 OF 29	
CB1031	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - STA 2169+00 TO 2239+00 - PLAN AND PROFILE	SHEET 23 OF 29	
CB1036	HANFORD WEST BYPASS SUBSECTION - SJVR SPUR REALIGNMENT - STA 100+00 TO 154+00 - PLAN AND PROFILE	SHEET 24 OF 29	
CB1037	HANFORD WEST BYPASS SUBSECTION - SJVR SPUR REALIGNMENT - STA 154+00 TO 190+00 - PLAN AND PROFILE	SHEET 25 OF 29	
CB3900	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - CROSS SECTIONS	SHEET 26 OF 29	
CB3901	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - CROSS SECTIONS	SHEET 27 OF 29	
CB3905	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - CROSS SECTIONS	SHEET 28 OF 29	
CB3906	HANFORD WEST BYPASS SUBSECTION - SJVR SPUR REALIGNMENT - CROSS SECTIONS	SHEET 29 OF 29	

ALIGNMENT HW2 - HANFORD WEST (BELOW-GRADE) BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1200	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1065+00 TO 1974+01.65 - KEY MAP	SHEET 1 OF 29	1
CB1201	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1065+00 TO 1089+00 - PLAN AND PROFILE	SHEET 2 OF 29	
CB1202	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1089+00 TO 1145+00 - PLAN AND PROFILE	SHEET 3 OF 29	
CB1203	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1145+00 TO 1201+00 - PLAN AND PROFILE	SHEET 4 OF 29	
CB1204	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1201+00 TO 1257+00 - PLAN AND PROFILE	SHEET 5 OF 29	
CB1205	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1257+00 TO 1313+00 - PLAN AND PROFILE	SHEET 6 OF 29	
CB1206	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1313+00 TO 1369+00 - PLAN AND PROFILE	SHEET 7 OF 29	
CB1207	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1369+00 TO 1425+00 - PLAN AND PROFILE	SHEET 8 OF 29	
CB1208	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1425+00 TO 1481+00 - PLAN AND PROFILE	SHEET 9 OF 29	
CB1209	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1481+00 TO 1537+00 - PLAN AND PROFILE	SHEET 10 OF 29	
CB1210	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1537+00 TO 1593+00 - PLAN AND PROFILE	SHEET 11 OF 29	
CB1211	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1593+00 TO 1649+00 - PLAN AND PROFILE	SHEET 12 OF 29	
CB1212	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1649+00 TO 1705+00 - PLAN AND PROFILE	SHEET 13 OF 29	
CB1213	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1705+00 TO 1761+00 - PLAN AND PROFILE	SHEET 14 OF 29	
CB1214	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1761+00 TO 1817+00 - PLAN AND PROFILE	SHEET 15 OF 29	
CB1215	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1817+00 TO 1873+00 - PLAN AND PROFILE	SHEET 16 OF 29	
CB1216	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1873+00 TO 1887+00 - PLAN AND PROFILE	SHEET 17 OF 29	
CB1217	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1887+00 TO 1943+00 - PLAN AND PROFILE	SHEET 18 OF 29	
CB1218	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1943+00 TO 1999+00 - PLAN AND PROFILE	SHEET 19 OF 29	
CB1219	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 1999+00 TO 2029+61 - PLAN AND PROFILE	SHEET 20 OF 29	
CB1220	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 2029+61 TO 2099+00 - PLAN AND PROFILE	SHEET 21 OF 29	
CB1221	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - STA 2099+00 TO 2169+00 - PLAN AND PROFILE	SHEET 22 OF 29	
CB1222	HANFORD WEST BYPASS SUBSECTION - SJVR SPUR REALIGNMENT - STA 143+89 TO 150+64 - PLAN AND PROFILE	SHEET 23 OF 29	
CB3201	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - CROSS SECTIONS	SHEET 24 OF 29	
CB3202	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - CROSS SECTIONS	SHEET 25 OF 29	
CB3203	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - CROSS SECTIONS	SHEET 26 OF 29	
CB3204	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - CROSS SECTIONS	SHEET 27 OF 29	
CB3205	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - CROSS SECTIONS	SHEET 28 OF 29	
CB3206	HANFORD WEST BYPASS SUBSECTION - SJVR SPUR REALIGNMENT - CROSS SECTIONS	SHEET 29 OF 29	

ALIGNMENT K1 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1040	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2030+05 TO 2564+53 - KEY MAP	SHEET 1 OF 16	1
CB1041	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2030+05 TO 2086+00 - PLAN AND PROFILE	SHEET 2 OF 16	
CB1042	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2086+00 TO 2142+00 - PLAN AND PROFILE	SHEET 3 OF 16	
CB1043	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2142+00 TO 2198+00 - PLAN AND PROFILE	SHEET 4 OF 16	
CB1044	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2198+00 TO 2254+00 - PLAN AND PROFILE	SHEET 5 OF 16	
CB1045	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2254+00 TO 2310+00 - PLAN AND PROFILE	SHEET 6 OF 16	
CB1046	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2310+00 TO 2366+00 - PLAN AND PROFILE	SHEET 7 OF 16	
CB1047	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2366+00 TO 2422+00 - PLAN AND PROFILE	SHEET 8 OF 16	
CB1048	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2422+00 TO 2478+00 - PLAN AND PROFILE	SHEET 9 OF 16	
CB1049	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2478+00 TO 2534+00 - PLAN AND PROFILE	SHEET 10 OF 16	
CB1050	KAWEAH SUBSECTION - ALIGNMENT K1 - STA 2534+00 TO 2564+53 - PLAN AND PROFILE	SHEET 11 OF 16	
CB3910	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS SECTIONS	SHEET 12 OF 16	
CB3911	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS SECTIONS	SHEET 13 OF 16	
CB3912	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS SECTIONS	SHEET 14 OF 16	
CB3913	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS SECTIONS	SHEET 15 OF 16	
CB3914	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS SECTIONS	SHEET 16 OF 16	

ALIGNMENT K2 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1060	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2029+93 TO 2601+70 - KEY MAP	SHEET 1 OF 15	1
CB1061	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2029+93 TO 2066+00 - PLAN AND PROFILE	SHEET 2 OF 15	
CB1062	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2066+00 TO 2124+00 - PLAN AND PROFILE	SHEET 3 OF 15	
CB1063	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2124+00 TO 2182+00 - PLAN AND PROFILE	SHEET 4 OF 15	
CB1064	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2182+00 TO 2240+00 - PLAN AND PROFILE	SHEET 5 OF 15	
CB1065	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2240+00 TO 2298+00 - PLAN AND PROFILE	SHEET 6 OF 15	
CB1066	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2298+00 TO 2356+00 - PLAN AND PROFILE	SHEET 7 OF 15	
CB1067	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2356+00 TO 2414+00 - PLAN AND PROFILE	SHEET 8 OF 15	
CB1068	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2414+00 TO 2471+00 - PLAN AND PROFILE	SHEET 9 OF 15	
CB1069	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2471+00 TO 2529+00 - PLAN AND PROFILE	SHEET 10 OF 15	
CB1070	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2529+00 TO 2587+00 - PLAN AND PROFILE	SHEET 11 OF 15	
CB1071	KAWEAH SUBSECTION - ALIGNMENT K2 - STA 2587+00 TO 2601+70 - PLAN AND PROFILE	SHEET 12 OF 15	
CB3915	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS SECTIONS	SHEET 13 OF 15	
CB3916	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS SECTIONS	SHEET 14 OF 15	
CB3917	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS SECTIONS	SHEET 15 OF 15	

ALIGNMENT K3 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1100	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2073+97 TO 2634+00 - KEY MAP	SHEET 1 OF 16	1
CB1101	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2073+97 TO 2130+00 - PLAN AND PROFILE	SHEET 2 OF 16	
CB1102	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2130+00 TO 2186+00 - PLAN AND PROFILE	SHEET 3 OF 16	
CB1103	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2186+00 TO 2242+00 - PLAN AND PROFILE	SHEET 4 OF 16	
CB1104	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2242+00 TO 2298+00 - PLAN AND PROFILE	SHEET 5 OF 16	
CB1105	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2298+00 TO 2354+00 - PLAN AND PROFILE	SHEET 6 OF 16	
CB1106	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2354+00 TO 2410+00 - PLAN AND PROFILE	SHEET 7 OF 16	
CB1107	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2410+00 TO 2466+00 - PLAN AND PROFILE	SHEET 8 OF 16	
CB1108	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2466+00 TO 2522+00 - PLAN AND PROFILE	SHEET 9 OF 16	
CB1109	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2522+00 TO 2578+00 - PLAN AND PROFILE	SHEET 10 OF 16	
CB1110	KAWEAH SUBSECTION - ALIGNMENT K3 - STA. 2578+00 TO 2634+00 - PLAN AND PROFILE	SHEET 11 OF 16	
CB3161	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS SECTIONS	SHEET 12 OF 16	
CB3162	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS SECTIONS	SHEET 13 OF 16	
CB3163	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS SECTIONS	SHEET 14 OF 16	
CB3164	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS SECTIONS	SHEET 15 OF 16	
CB3165	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS SECTIONS	SHEET 16 OF 16	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. TONKIN
DRAWN BY
P. LEES
CHECKED BY
A. BRUNDAGE
IN CHARGE
R. COFFIN
DATE
12/31/13

**DRAFT 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

ALIGNMENT
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CONTRACT NO.
HSR 06-0003
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CB0004
SCALE
NO SCALE
SHEET NO.
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ALIGNMENT K4 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1130	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2074+96 TO 2598+60 - KEY MAP	SHEET 1 OF 15	1
CB1131	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2074+96 TO 2130+00 - PLAN AND PROFILE	SHEET 2 OF 15	
CB1132	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2130+00 TO 2186+00 - PLAN AND PROFILE	SHEET 3 OF 15	
CB1133	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2186+00 TO 2242+00 - PLAN AND PROFILE	SHEET 4 OF 15	
CB1134	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2242+00 TO 2298+00 - PLAN AND PROFILE	SHEET 5 OF 15	
CB1135	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2298+00 TO 2354+00 - PLAN AND PROFILE	SHEET 6 OF 15	
CB1136	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2354+00 TO 2410+00 - PLAN AND PROFILE	SHEET 7 OF 15	
CB1137	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2410+00 TO 2466+00 - PLAN AND PROFILE	SHEET 8 OF 15	
CB1138	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2466+00 TO 2522+00 - PLAN AND PROFILE	SHEET 9 OF 15	
CB1139	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2522+00 TO 2578+00 - PLAN AND PROFILE	SHEET 10 OF 15	
CB1140	KAWEAH SUBSECTION - ALIGNMENT K4 - STA. 2578+00 TO 2598+60 - PLAN AND PROFILE	SHEET 11 OF 15	
CB3171	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS SECTIONS	SHEET 12 OF 15	
CB3172	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS SECTIONS	SHEET 13 OF 15	
CB3173	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS SECTIONS	SHEET 14 OF 15	
CB3174	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS SECTIONS	SHEET 15 OF 15	

ALIGNMENT K5 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1250	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 1974+00 TO 2563+94 - KEY MAP	SHEET 1 OF 17	1
CB1251	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 1974+00 TO 2030+00 - PLAN AND PROFILE	SHEET 2 OF 17	
CB1252	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2030+00 TO 2086+00 - PLAN AND PROFILE	SHEET 3 OF 17	
CB1253	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2086+00 TO 2142+00 - PLAN AND PROFILE	SHEET 4 OF 17	
CB1254	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2142+00 TO 2198+00 - PLAN AND PROFILE	SHEET 5 OF 17	
CB1255	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2198+00 TO 2254+00 - PLAN AND PROFILE	SHEET 6 OF 17	
CB1256	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2254+00 TO 2310+00 - PLAN AND PROFILE	SHEET 7 OF 17	
CB1257	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2310+00 TO 2366+00 - PLAN AND PROFILE	SHEET 8 OF 17	
CB1258	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2366+00 TO 2422+00 - PLAN AND PROFILE	SHEET 9 OF 17	
CB1259	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2422+00 TO 2478+00 - PLAN AND PROFILE	SHEET 10 OF 17	
CB1260	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2478+00 TO 2534+00 - PLAN AND PROFILE	SHEET 11 OF 17	
CB1261	KAWEAH SUBSECTION - ALIGNMENT K5 - STA 2534+00 TO 2563+94 - PLAN AND PROFILE	SHEET 12 OF 17	
CB3950	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS SECTIONS	SHEET 13 OF 17	
CB3951	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS SECTIONS	SHEET 14 OF 17	
CB3952	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS SECTIONS	SHEET 15 OF 17	
CB3953	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS SECTIONS	SHEET 16 OF 17	
CB3954	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS SECTIONS	SHEET 17 OF 17	

ALIGNMENT K6 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1275	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 1974+00 TO 2598+85.20 - KEY MAP	SHEET 1 OF 16	1
CB1276	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 1974+00 TO 2030+00 - PLAN AND PROFILE	SHEET 2 OF 16	
CB1277	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2030+00 TO 2086+00 - PLAN AND PROFILE	SHEET 3 OF 16	
CB1278	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2086+00 TO 2142+00 - PLAN AND PROFILE	SHEET 4 OF 16	
CB1279	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2142+00 TO 2198+00 - PLAN AND PROFILE	SHEET 5 OF 16	
CB1280	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2198+00 TO 2254+00 - PLAN AND PROFILE	SHEET 6 OF 16	
CB1281	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2254+00 TO 2310+00 - PLAN AND PROFILE	SHEET 7 OF 16	
CB1282	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2310+00 TO 2366+00 - PLAN AND PROFILE	SHEET 8 OF 16	
CB1283	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2366+00 TO 2422+00 - PLAN AND PROFILE	SHEET 9 OF 16	
CB1284	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2422+00 TO 2476+00 - PLAN AND PROFILE	SHEET 10 OF 16	
CB1285	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2476+00 TO 2534+00 - PLAN AND PROFILE	SHEET 11 OF 16	
CB1286	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2534+00 TO 2590+00 - PLAN AND PROFILE	SHEET 12 OF 16	
CB1287	KAWEAH SUBSECTION - ALIGNMENT K6 - STA 2590+00 TO 2598+85.20 - PLAN AND PROFILE	SHEET 13 OF 16	
CB3975	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS SECTIONS	SHEET 14 OF 16	
CB3976	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS SECTIONS	SHEET 15 OF 16	
CB3977	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS SECTIONS	SHEET 16 OF 16	

ALIGNMENT C1 - CORCORAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1870	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2601+64 TO 3096+00 - KEY MAP	SHEET 1 OF 22	2
CB1880	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2601+64 TO 2622+00 - PLAN AND PROFILE	SHEET 2 OF 22	
CB1881	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2622+00 TO 2678+00 - PLAN AND PROFILE	SHEET 3 OF 22	
CB1882	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2678+00 TO 2706+00 - PLAN AND PROFILE	SHEET 4 OF 22	
CB1883	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2706+00 TO 2734+00 - PLAN AND PROFILE	SHEET 5 OF 22	
CB1884	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2734+00 TO 2762+00 - PLAN AND PROFILE	SHEET 6 OF 22	
CB1885	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2762+00 TO 2790+00 - PLAN AND PROFILE	SHEET 7 OF 22	
CB1886	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2790+00 TO 2818+00 - PLAN AND PROFILE	SHEET 8 OF 22	
CB1887	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2818+00 TO 2846+00 - PLAN AND PROFILE	SHEET 9 OF 22	
CB1888	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2846+00 TO 2874+00 - PLAN AND PROFILE	SHEET 10 OF 22	
CB1889	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2874+00 TO 2902+00 - PLAN AND PROFILE	SHEET 11 OF 22	
CB1890	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2902+00 TO 2930+00 - PLAN AND PROFILE	SHEET 12 OF 22	
CB1891	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2930+00 TO 2958+00 - PLAN AND PROFILE	SHEET 13 OF 22	
CB1892	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 2958+00 TO 3014+00 - PLAN AND PROFILE	SHEET 14 OF 22	
CB1893	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 3014+00 TO 3070+00 - PLAN AND PROFILE	SHEET 15 OF 22	
CB1894	CORCORAN SUBSECTION - ALIGNMENT C1 - STA. 3070+00 TO 3096+00 - PLAN AND PROFILE	SHEET 16 OF 22	
CB3210	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 17 OF 22	
CB3211	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 18 OF 22	
CB3212	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 19 OF 22	
CB3213	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 20 OF 22	
CB3214	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 21 OF 22	
CB3215	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 22 OF 22	

ALIGNMENT C2 - CORCORAN BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1850	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2594+81 TO 3096+00 - KEY MAP	SHEET 1 OF 16	2
CB1861	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2594+81 TO 2650+00 - PLAN AND PROFILE	SHEET 2 OF 16	
CB1862	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2650+00 TO 2706+00 - PLAN AND PROFILE	SHEET 3 OF 16	
CB1863	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2706+00 TO 2762+00 - PLAN AND PROFILE	SHEET 4 OF 16	
CB1864	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2762+00 TO 2818+00 - PLAN AND PROFILE	SHEET 5 OF 16	
CB1865	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2818+00 TO 2874+00 - PLAN AND PROFILE	SHEET 6 OF 16	
CB1866	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2874+00 TO 2930+00 - PLAN AND PROFILE	SHEET 7 OF 16	
CB1867	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2930+00 TO 2986+00 - PLAN AND PROFILE	SHEET 8 OF 16	
CB1868	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 2986+00 TO 3042+00 - PLAN AND PROFILE	SHEET 9 OF 16	
CB1869	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA. 3042+00 TO 3096+00 - PLAN AND PROFILE	SHEET 10 OF 16	
CB3255	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 11 OF 16	
CB3256	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 12 OF 16	
CB3257	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 13 OF 16	
CB3258	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 14 OF 16	
CB3259	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 15 OF 16	
CB3260	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 16 OF 16	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. TONKIN
DRAWN BY
P. LEES
CHECKED BY
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IN CHARGE
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DATE
12/31/13

**DRAFT 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

ALIGNMENT
INDEX OF SHEETS
SHEET 3 OF 6

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CB0005

SCALE
NO SCALE

SHEET NO.
5 OF 16

ALIGNMENT C3 - CORCORAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1900	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2634+47 TO 3096+00 - KEY MAP	SHEET 1 OF 20	2
CB1911	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2634+47 TO 2690+00 - PLAN AND PROFILE	SHEET 2 OF 20	
CB1912	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2690+00 TO 2718+00 - PLAN AND PROFILE	SHEET 3 OF 20	
CB1913	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2718+00 TO 2746+00 - PLAN AND PROFILE	SHEET 4 OF 20	
CB1914	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2746+00 TO 2774+00 - PLAN AND PROFILE	SHEET 5 OF 20	
CB1915	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2744+00 TO 2802+00 - PLAN AND PROFILE	SHEET 6 OF 20	
CB1916	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2802+00 TO 2830+00 - PLAN AND PROFILE	SHEET 7 OF 20	
CB1917	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2830+00 TO 2858+00 - PLAN AND PROFILE	SHEET 8 OF 20	
CB1918	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2858+00 TO 2886+00 - PLAN AND PROFILE	SHEET 9 OF 20	
CB1919	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2886+00 TO 2914+00 - PLAN AND PROFILE	SHEET 10 OF 20	
CB1920	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2914+00 TO 2942+00 - PLAN AND PROFILE	SHEET 11 OF 20	
CB1921	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2942+00 TO 2998+00 - PLAN AND PROFILE	SHEET 12 OF 20	
CB1922	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 2998+00 TO 3054+00 - PLAN AND PROFILE	SHEET 13 OF 20	
CB1923	CORCORAN SUBSECTION - ALIGNMENT C3 - STA. 3054+00 TO 3096+00 - PLAN AND PROFILE	SHEET 14 OF 20	
CB3275	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 15 OF 20	
CB3276	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 16 OF 20	
CB3277	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 17 OF 20	
CB3278	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 18 OF 20	
CB3279	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 19 OF 20	
CB3280	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 20 OF 20	

ALIGNMENT A2 - THROUGH ALLENSWORTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1420	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 3919+50 TO 4924+27 - KEY MAP	SHEET 1 OF 22	2
CB1421	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 3919+50 TO 3974+00 - PLAN AND PROFILE	SHEET 2 OF 22	
CB1422	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 3974+00 TO 4030+00 - PLAN AND PROFILE	SHEET 3 OF 22	
CB1423	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4030+00 TO 4086+00 - PLAN AND PROFILE	SHEET 4 OF 22	
CB1424	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4086+00 TO 4142+00 - PLAN AND PROFILE	SHEET 5 OF 22	
CB1425	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4142+00 TO 4198+00 - PLAN AND PROFILE	SHEET 6 OF 22	
CB1426	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4198+00 TO 4254+00 - PLAN AND PROFILE	SHEET 7 OF 22	
CB1427	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4254+00 TO 4310+00 - PLAN AND PROFILE	SHEET 8 OF 22	
CB1428	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4310+00 TO 4366+00 - PLAN AND PROFILE	SHEET 9 OF 22	
CB1429	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4366+00 TO 4422+00 - PLAN AND PROFILE	SHEET 10 OF 22	
CB1430	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4422+00 TO 4478+00 - PLAN AND PROFILE	SHEET 11 OF 22	
CB1431	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4478+00 TO 4534+00 - PLAN AND PROFILE	SHEET 12 OF 22	
CB1432	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4534+00 TO 4590+00 - PLAN AND PROFILE	SHEET 13 OF 22	
CB1433	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4590+00 TO 4646+00 - PLAN AND PROFILE	SHEET 14 OF 22	
CB1434	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4646+00 TO 4702+00 - PLAN AND PROFILE	SHEET 15 OF 22	
CB1435	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4702+00 TO 4758+00 - PLAN AND PROFILE	SHEET 16 OF 22	
CB1436	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4758+00 TO 4814+00 - PLAN AND PROFILE	SHEET 17 OF 22	
CB1437	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4814+00 TO 4870+00 - PLAN AND PROFILE	SHEET 18 OF 22	
CB1438	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA. 4870+00 TO 4924+27 - PLAN AND PROFILE	SHEET 19 OF 22	
CB3421	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - CROSS SECTIONS	SHEET 20 OF 22	
CB3422	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - CROSS SECTIONS	SHEET 21 OF 22	
CB3423	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - CROSS SECTIONS	SHEET 22 OF 22	

ALIGNMENT P - PIXLEY SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1300	PIXLEY SUBSECTION - ALIGNMENT P - STA. 3096+00 TO 3459+25 - KEY MAP	SHEET 1 OF 9	2
CB1301	PIXLEY SUBSECTION - ALIGNMENT P - STA. 3096+00 TO 3152+00 - PLAN AND PROFILE	SHEET 2 OF 9	
CB1302	PIXLEY SUBSECTION - ALIGNMENT P - STA. 3152+00 TO 3208+00 - PLAN AND PROFILE	SHEET 3 OF 9	
CB1303	PIXLEY SUBSECTION - ALIGNMENT P - STA. 3208+00 TO 3264+00 - PLAN AND PROFILE	SHEET 4 OF 9	
CB1304	PIXLEY SUBSECTION - ALIGNMENT P - STA. 3264+00 TO 3320+00 - PLAN AND PROFILE	SHEET 5 OF 9	
CB1305	PIXLEY SUBSECTION - ALIGNMENT P - STA. 3320+00 TO 3376+00 - PLAN AND PROFILE	SHEET 6 OF 9	
CB1306	PIXLEY SUBSECTION - ALIGNMENT P - STA. 3376+00 TO 3432+00 - PLAN AND PROFILE	SHEET 7 OF 9	
CB1307	PIXLEY SUBSECTION - ALIGNMENT P - STA. 3432+00 TO 3459+25 - PLAN AND PROFILE	SHEET 8 OF 9	
CB3301	PIXLEY SUBSECTION - ALIGNMENT P - CROSS SECTIONS	SHEET 9 OF 9	

ALIGNMENT L1 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1525	POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5154+50 TO 5322+33 - KEY MAP	SHEET 1 OF 6	2
CB1526	POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5154+50 TO 5210+50 - PLAN AND PROFILE	SHEET 2 OF 6	
CB1527	POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5210+50 TO 5266+50 - PLAN AND PROFILE	SHEET 3 OF 6	
CB1528	POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5266+50 TO 5322+33 - PLAN AND PROFILE	SHEET 4 OF 6	
CB3526	POSO CREEK SUBSECTION - ALIGNMENT L1 - CROSS SECTIONS	SHEET 5 OF 6	
CB3527	POSO CREEK SUBSECTION - ALIGNMENT L1 - CROSS SECTIONS	SHEET 6 OF 6	

ALIGNMENT A1 - ALLENSWORTH BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1400	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 3919+50 TO 4925+51 - KEY MAP	SHEET 1 OF 21	2
CB1401	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 3919+50 TO 3976+00 - PLAN AND PROFILE	SHEET 2 OF 21	
CB1402	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 3976+00 TO 4032+00 - PLAN AND PROFILE	SHEET 3 OF 21	
CB1750	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4032+00 TO 4088+00 - PLAN AND PROFILE	SHEET 4 OF 21	
CB1751	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4088+00 TO 4144+00 - PLAN AND PROFILE	SHEET 5 OF 21	
CB1752	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4144+00 TO 4200+00 - PLAN AND PROFILE	SHEET 6 OF 21	
CB1753	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4200+00 TO 4256+00 - PLAN AND PROFILE	SHEET 7 OF 21	
CB1754	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4256+00 TO 4312+00 - PLAN AND PROFILE	SHEET 8 OF 21	
CB1755	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4312+00 TO 4368+00 - PLAN AND PROFILE	SHEET 9 OF 21	
CB1756	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4368+00 TO 4424+00 - PLAN AND PROFILE	SHEET 10 OF 21	
CB1757	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4424+00 TO 4480+00 - PLAN AND PROFILE	SHEET 11 OF 21	
CB1758	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4480+00 TO 4536+00 - PLAN AND PROFILE	SHEET 12 OF 21	
CB1759	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4536+00 TO 4592+00 - PLAN AND PROFILE	SHEET 13 OF 21	
CB1760	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4592+00 TO 4648+00 - PLAN AND PROFILE	SHEET 14 OF 21	
CB1761	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4648+00 TO 4704+00 - PLAN AND PROFILE	SHEET 15 OF 21	
CB1762	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4704+00 TO 4760+00 - PLAN AND PROFILE	SHEET 16 OF 21	
CB1763	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4760+00 TO 4816+00 - PLAN AND PROFILE	SHEET 17 OF 21	
CB1764	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4816+00 TO 4872+00 - PLAN AND PROFILE	SHEET 18 OF 21	
CB1765	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4872+00 TO 4925+51 - PLAN AND PROFILE	SHEET 19 OF 21	
CB3401	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - CROSS SECTIONS	SHEET 20 OF 21	
CB3402	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - CROSS SECTIONS	SHEET 21 OF 21	

ALIGNMENT L2 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1550	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5154+50 TO 5598+43 - KEY MAP	SHEET 1 OF 13	2
CB1551	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5154+50 TO 5210+50 - PLAN AND PROFILE	SHEET 2 OF 13	
CB1552	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5210+50 TO 5266+50 - PLAN AND PROFILE	SHEET 3 OF 13	
CB1553	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5266+50 TO 5322+50 - PLAN AND PROFILE	SHEET 4 OF 13	
CB1554	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5322+50 TO 5378+50 - PLAN AND PROFILE	SHEET 5 OF 13	
CB1555	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5378+50 TO 5434+50 - PLAN AND PROFILE	SHEET 6 OF 13	
CB1556	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5434+50 TO 5490+50 - PLAN AND PROFILE	SHEET 7 OF 13	
CB1557	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5490+50 TO 5546+50 - PLAN AND PROFILE	SHEET 8 OF 13	
CB1558	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA. 5546+50 TO 5598+43 - PLAN AND PROFILE	SHEET 9 OF 13	
CB3551	POSO CREEK SUBSECTION - ALIGNMENT L2 - CROSS SECTIONS	SHEET 10 OF 13	
CB3552	POSO CREEK SUBSECTION - ALIGNMENT L2 - CROSS SECTIONS	SHEET 11 OF 13	
CB3553	POSO CREEK SUBSECTION - ALIGNMENT L2 - CROSS SECTIONS	SHEET 12 OF 13	
CB3554	POSO CREEK SUBSECTION - ALIGNMENT L2 - CROSS SECTIONS	SHEET 13 OF 13	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. TONKIN
DRAWN BY
P. LEES
CHECKED BY
A. BRUNDAGE
IN CHARGE
R. COFFIN
DATE
12/31/13

**DRAFT 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALIGNMENT
INDEX OF SHEETS
SHEET 4 OF 6

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0006
SCALE
NO SCALE
SHEET NO.
6 OF 16

ALIGNMENT L3 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1575	POSO CREEK SUBSECTION - ALIGNMENT L3 - STA. 5154+50 TO 5322+50 - KEY MAP	SHEET 1 OF 7	2
CB1576	POSO CREEK SUBSECTION - ALIGNMENT L3 - STA. 5154+50 TO 5210+50 - PLAN AND PROFILE	SHEET 2 OF 7	
CB1577	POSO CREEK SUBSECTION - ALIGNMENT L3 - STA. 5210+50 TO 5266+50 - PLAN AND PROFILE	SHEET 3 OF 7	
CB1578	POSO CREEK SUBSECTION - ALIGNMENT L3 - STA. 5266+50 TO 5322+50 - PLAN AND PROFILE	SHEET 4 OF 7	
CB3576	POSO CREEK SUBSECTION - ALIGNMENT L3 - CROSS SECTIONS	SHEET 5 OF 7	
CB3577	POSO CREEK SUBSECTION - ALIGNMENT L3 - CROSS SECTIONS	SHEET 6 OF 7	
CB3578	POSO CREEK SUBSECTION - ALIGNMENT L3 - CROSS SECTIONS	SHEET 7 OF 7	

ALIGNMENT L4 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1600	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5154+50 TO 5599+86 - KEY MAP	SHEET 1 OF 16	2
CB1601	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5154+50 TO 5210+50 - PLAN AND PROFILE	SHEET 2 OF 16	
CB1602	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5210+50 TO 5266+50 - PLAN AND PROFILE	SHEET 3 OF 16	
CB1603	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5266+50 TO 5322+50 - PLAN AND PROFILE	SHEET 4 OF 16	
CB1604	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5322+50 TO 5378+50 - PLAN AND PROFILE	SHEET 5 OF 16	
CB1605	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5378+50 TO 5434+50 - PLAN AND PROFILE	SHEET 6 OF 16	
CB1606	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5434+50 TO 5490+50 - PLAN AND PROFILE	SHEET 7 OF 16	
CB1607	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5490+50 TO 5546+50 - PLAN AND PROFILE	SHEET 8 OF 16	
CB1608	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA. 5546+50 TO 5599+86 - PLAN AND PROFILE	SHEET 9 OF 16	
CB3601	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 10 OF 16	
CB3602	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 11 OF 16	
CB3603	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 12 OF 16	
CB3604	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 13 OF 16	
CB3605	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 14 OF 16	
CB3606	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 15 OF 16	
CB3607	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 16 OF 16	

ALIGNMENT WS1 - THROUGH WASCO-SHAFTER SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1448	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5422+50 TO 6511+99 - KEY MAP	SHEET 1 OF 35	2
CB1449	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5422+50 TO 5478+50 - PLAN AND PROFILE	SHEET 2 OF 35	
CB1450	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5478+50 TO 5534+50 - PLAN AND PROFILE	SHEET 3 OF 35	
CB1451	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5534+50 TO 5562+50 - PLAN AND PROFILE	SHEET 4 OF 35	
CB1452	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5562+50 TO 5590+50 - PLAN AND PROFILE	SHEET 5 OF 35	
CB1453	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5590+00 TO 5618+50 - PLAN AND PROFILE	SHEET 6 OF 35	
CB1454	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5618+50 TO 5646+50 - PLAN AND PROFILE	SHEET 7 OF 35	
CB1455	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5646+50 TO 5702+50 - PLAN AND PROFILE	SHEET 8 OF 35	
CB1456	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5702+50 TO 5758+50 - PLAN AND PROFILE	SHEET 9 OF 35	
CB1457	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5758+50 TO 5814+50 - PLAN AND PROFILE	SHEET 10 OF 35	
CB1458	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5814+50 TO 5870+50 - PLAN AND PROFILE	SHEET 11 OF 35	
CB1459	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5870+50 TO 5926+50 - PLAN AND PROFILE	SHEET 12 OF 35	
CB1460	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5926+50 TO 5954+50 - PLAN AND PROFILE	SHEET 13 OF 35	
CB1461	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5954+50 TO 5982+50 - PLAN AND PROFILE	SHEET 14 OF 35	
CB1462	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 5982+50 TO 6010+50 - PLAN AND PROFILE	SHEET 15 OF 35	
CB1463	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6010+50 TO 6038+50 - PLAN AND PROFILE	SHEET 16 OF 35	
CB1464	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6038+50 TO 6094+50 - PLAN AND PROFILE	SHEET 17 OF 35	
CB1465	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6094+50 TO 6150+50 - PLAN AND PROFILE	SHEET 18 OF 35	
CB1466	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6150+50 TO 6206+50 - PLAN AND PROFILE	SHEET 19 OF 35	
CB1467	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6206+50 TO 6262+50 - PLAN AND PROFILE	SHEET 20 OF 35	
CB1468	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6262+50 TO 6318+50 - PLAN AND PROFILE	SHEET 21 OF 35	
CB1469	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6318+50 TO 6374+50 - PLAN AND PROFILE	SHEET 22 OF 35	
CB1470	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6374+50 TO 6430+50 - PLAN AND PROFILE	SHEET 23 OF 35	
CB1471	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6430+50 TO 6486+50 - PLAN AND PROFILE	SHEET 24 OF 35	
CB1472	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA. 6486+50 TO 6511+97 - PLAN AND PROFILE	SHEET 25 OF 35	

ALIGNMENT WS1 - THROUGH WASCO-SHAFTER SUBSECTION CONT'D

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB3446	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 26 OF 35	2
CB3447	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 27 OF 35	
CB3448	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 28 OF 35	
CB3449	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 29 OF 35	
CB3450	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 30 OF 35	
CB3451	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 31 OF 35	
CB3452	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 32 OF 35	
CB3453	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 33 OF 35	
CB3454	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 34 OF 35	
CB3455	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 35 OF 35	

ALIGNMENT WS2 - WASCO-SHAFTER BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB1483	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 5703+34 TO 6468+40 - KEY MAP	SHEET 1 OF 21	2
CB1484	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 5703+34 TO 5758+50 - PLAN AND PROFILE	SHEET 2 OF 21	
CB1485	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 5758+50 TO 5814+50 - PLAN AND PROFILE	SHEET 3 OF 21	
CB1486	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 5814+50 TO 5870+50 - PLAN AND PROFILE	SHEET 4 OF 21	
CB1487	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 5870+50 TO 5926+50 - PLAN AND PROFILE	SHEET 5 OF 21	
CB1488	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 5926+50 TO 5982+50 - PLAN AND PROFILE	SHEET 6 OF 21	
CB1489	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 5982+50 TO 6038+50 - PLAN AND PROFILE	SHEET 7 OF 21	
CB1490	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 6038+50 TO 6094+50 - PLAN AND PROFILE	SHEET 8 OF 21	
CB1491	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 6094+50 TO 6150+50 - PLAN AND PROFILE	SHEET 9 OF 21	
CB1492	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 6150+50 TO 6206+50 - PLAN AND PROFILE	SHEET 10 OF 21	
CB1493	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 6206+50 TO 6262+50 - PLAN AND PROFILE	SHEET 11 OF 21	
CB1494	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 6262+50 TO 6318+50 - PLAN AND PROFILE	SHEET 12 OF 21	
CB1495	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 6318+50 TO 6374+50 - PLAN AND PROFILE	SHEET 13 OF 21	
CB1496	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 6374+50 TO 6430+50 - PLAN AND PROFILE	SHEET 14 OF 21	
CB1497	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA. 6430+50 TO 6468+40 - PLAN AND PROFILE	SHEET 15 OF 21	
CB3476	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 16 OF 21	
CB3477	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 17 OF 21	
CB3478	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 18 OF 21	
CB3479	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 19 OF 21	
CB3480	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 20 OF 21	
CB3481	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 21 OF 21	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. TONKIN
DRAWN BY
P. LEES
CHECKED BY
A. BRUNDAGE
IN CHARGE
R. COFFIN
DATE
12/31/13

**DRAFT 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

ALIGNMENT
INDEX OF SHEETS
SHEET 5 OF 6

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0007
SCALE
NO SCALE
SHEET NO.
7 OF 16

A

AB AGGREGATE BASE
ABBC ASBESTOS BONDED BITUMINOUS COATED
ABM AIR-BLOWN MORTAR
ABN ABANDON
ABUT ABUTMENT
AC ASPHALT CONCRETE
ACB ASPHALT CONCRETE BASE
ACP ASBESTOS CEMENT PIPE
ADL ADDED DEAD LOAD
ADJ ADJUST
AFES ALTERNATIVE FLARED END SECTION
AHD AHEAD
ALT ALTERNATE
AM TIME FROM MIDNIGHT TO NOON
AP ALTERNATIVE PIPE
APC ALTERNATIVE PIPE CULVERT
APPROX APPROXIMATE
APU ALTERNATIVE PIPE UNDERDRAIN
ARS ACCELERATION RESPONSE SPECTRUM
AR ACCESS RESTRICTION
AS AGGREGATE SUBBASE
ASRP ALUMINUM SPIRAL RIB PIPE
ASSY ASSEMBLY
ATPB ASPHALT TREATED PERMEABLE BASE
ATPM ASPHALT TREATED PERMEABLE MATERIAL
AVE AVENUE
AVG AVERAGE
@ AT

B

BAGR BRIDGE APPROACH GUARD RAILING
BB BEGINNING OF BRIDGE
BC BEGIN HORIZONTAL CURVE
BCC BALANCED CANTILEVER CONSTRUCTION
BCR BEGIN CURB RETURN
BEG BEGIN
BIT CTD BITUMINOUS COATED
BK BACK
BKF BACKFILL
BLDG BUILDING
BLM BRIDGE-LOG MILE
BLVD BOULEVARD
BM BENCH MARK
BND BOUND
BNSF BURLINGTON NORTH & SANTA FE
BOT BOTTOM
BR BRIDGE
BRG BEARING
BTU BRITISH THERMAL UNIT
BVC BEGIN VERTICAL CURVE
BW BARBED WIRE

C

CAA CABLE ANCHOR ASSEMBLY
CAP CORRUGATED ALUMINUM PIPE
CAPA CORRUGATED ALUMINUM PIPE ARCH
CAS CONSTRUCTION AREA SIGN
CB CONCRETE BARRIER
CBW CONCRETE BLOCK WALL
C-C CENTER TO CENTER

C CONTINUED

CHSRA CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST CALIFORNIA HIGH SPEED TRAIN
CHSR CALIFORNIA HIGH SPEED RAIL
CG CENTER OF GRAVITY
CHNL CHANNEL
CI CAST IRON
CIDH CAST-IN-DRILLED-HOLE
CIP,C-I-P CAST-IN-PLACE, CAST IRON PIPE
CIPCP CAST IN PLACE CONCRETE PIPE
CISS CAST-IN-STEEL-SHELL
CJP COMPLETE JOINT PENETRATION
CL CENTERLINE, CLASS
CL2 CLASS 2
CL-6 CHAIN LINK FENCE (6 FT)
CLR CLEAR, CLEARANCE
CM CORRUGATED METAL
CMP CORRUGATED METAL PIPE
CO COUNTY
COL COLUMN
CONC CONCRETE
COND CONDUIT
CONN CONNECTOR
CONST CONSTRUCT, CONSTRUCTION
CONT CONTINUOUS
COORD COORDINATE
CP CLEARANCE POINT
CR CREEK
CRCP CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP CONCRETED ROCK SLOPE PROTECTION
CS CURVE TO SPIRAL
CSP CORRUGATED STEEL PIPE
CSPA CORRUGATED STEEL PIPE ARCH
CTB CEMENT TREATED BASE
CTPB CEMENT TREATED PERMEABLE BASE
CTPM CEMENT TREATED PERMEABLE MATERIAL
CTRS CENTERS
CVFPB CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV CULVERT
@ CENTERLINE

D

D DEPTH
DD DOWNDRAIN, DIRECTIVE DRILLING
DBL DOUBLE
DEG DEGREE
DEL DELINEATOR
DET DETAIL, DETOUR
DF DOUGLAS FIR
DI DRAINAGE INLET, DROP INLET
DIA DIAMETER
DIAPH DIAPHRAGM
DIST DISTANCE, DISTRICT
DMBB DOUBLE METAL BEAM BARRIER
DR DRIVE
DTBB DOUBLE THRIE BEAM BARRIER
DWY DRIVEWAY

E

E EAST, EASTING
EA ACTUAL SUPERELEVATION
EU UNBALANCED SUPERELEVATION

E CONTINUED

EASE EASEMENT
EB END OF BRIDGE, EASTBOUND
EC END HORIZONTAL CURVE
ECR END CURB RETURN
ED EDGE DRAIN
EDC EDGE DRAIN CLEANOUT
EDO EDGE DRAIN OUTLET
EDV EDGE DRAIN VENT
ELEC ELECTROLIER
ELECT ELECTRIC
ELEV ELEVATION
EMB EMBANKMENT
ENGR ENGINEER
EOD EDGE OF DECK
EP EDGE OF PAVEMENT
EO EQUATION, EQUAL
ES EDGE OF SHOULDER
ETW EDGE OF TRAVELED WAY
EVC END VERTICAL CURVE
EW ENDWALL
EXC EXCAVATION
EXIST, EX. EXISTING
EXP EXPANSION
EXP JT EXPANSION JOINT
EXWY EXPRESSWAY
EXT EXTERIOR

F

F & C FRAME AND COVER
F & G FRAME AND GRATE
FB FLOOR BEAM
F-B FRESNO TO BAKERSFIELD
FDN FOUNDATION
FEBT FACING EASTBOUND TRAFFIC
FES FLARED END SECTION
FF FILTER FABRIC
FG FINISHED GRADE
FH FIRE HYDRANT
FIG FIGURE
FL FLOW LINE
FNBT FACING NORTHBOUND TRAFFIC
FOC FACE OF CONCRETE
FR RD FRONTAGE ROAD
FS FAR SIDE, FINISHED SURFACE
FSBT FACING SOUTHBOUND TRAFFIC
FT FOOT, FEET
FTG FOOTING
FWBT FACING WESTBOUND TRAFFIC
FWY FREEWAY
FPLM FULL SPAN PRECAST LAUNCHING METHOD

G

G ACCELERATION DUE TO GRAVITY
GA GAGE
GALV GALVANIZED
GP GRADING PLANE
GR GUARD RAILING
GSP GALVANIZED STEEL PIPE
GTR GUTTER

H

H HEIGHT
HR HOUR
HD HORIZONTAL DRAIN
HDWL HEADWALL
HEX HD HEXAGONAL HEAD
HMA HOT MIXED ASPHALT
HORIZ HORIZONTAL
HP HINGE POINT, HORSEPOWER
HPS HIGH PERFORMANCE STEEL
HS HIGH STRENGTH
HST HIGH SPEED TRAIN
HSR HIGH SPEED RAIL
HW HEADWALL, HIGH WATER
HWM HIGH WATER MARK
HWY HIGHWAY

I

IB IMPORTED BORROW
ID INSIDE DIAMETER
IF INSIDE FACE
IN INCH, INCHES
INT INTERIOR
INV INVERT
IRR IRRIGATION

J

JCT JUNCTION
JP JOINT POLE
JPCP JOINTED PLAIN CONCRETE PAVEMENT
JS JUNCTION STRUCTURE
JT JOINT

K

K DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L LENGTH
LAT LATITUDE
LCB LEAN CONCRETE BASE
LN LANE
LOC LOCATION
LOL LAYOUT LINE
LONG LONGITUDE
LONGIT LONGITUDINAL
LS LENGTH OF SPIRAL
LC LENGTH OF CURVE
LT LEFT

M

MAINT MAINTENANCE
MAX MAXIMUM
MB METAL BEAM
MBB METAL BEAM BARRIER
MBGR METAL BEAM GUARD RAILING
MED MEDIAN
M-F MERCED TO FRESNO
MH MANHOLE
MIN MINIMUM
MISC MISCELLANEOUS
MISC I & S MISCELLANEOUS IRON AND STEEL
MKR MARKER
M/L MAIN LINE (RAILWAY)

M CONTINUED

MOD MODIFIED, MODIFY
MON MONUMENT
MP METAL PLATE
MPGR METAL PLATE GUARD RAILING
MPH MILES PER HOUR
MR MOVEMENT RATING
MSE MECHANICALLY STABILIZED EARTH MATERIAL
MTL MATERIAL
MSS MOVING SCAFFOLDING SYSTEM

N

N NORTH, NORTHING
NB NORTHBOUND
NO. NUMBER (MUST HAVE PERIOD)
NOS. NUMBERS (MUST HAVE PERIOD)
NPS NOMINAL PIPE SIZE
NS NEAR SIDE
NTS NOT TO SCALE
N/A NOT APPLICABLE

O

OBLR OBLITERATE
OC OVERCROSSING
OCS OVERHEAD CONTACT SYSTEM
OD OUTSIDE DIAMETER
OF OUTSIDE FACE
OG ORIGINAL GROUND
OGAC OPEN GRADED ASPHALT CONCRETE
OH OVERHEAD
O-O OUT TO OUT
OPP OPPOSITE

P

P PAGE
PAP PERFORATED ALUMINUM PIPE
PB PULL BOX
PC POINT OF CURVATURE, PRECAST
PCC POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCP PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC POINT OF COMPOUND VERTICAL CURVE
PED PEDESTRIAN
PED OC PEDESTRIAN OVERCROSSING
PED UC PEDESTRIAN UNDERCROSSING
PERM MTL PERMEABLE MATERIAL
PG PROFILE GRADE
PI POINT OF INTERSECTION
PJP PARTIAL JOINT PENETRATION
@,PL PLATE
P/L PROPERTY LINE
PM POST MILE, TIME FROM NOON TO MIDNIGHT
PN PAVING NOTCH
POB POINT OF BEGINNING
POC POINT OF HORIZONTAL CURVE
POE POINT OF ENDING
POT POINT OF TANGENT
POVC POINT OF VERTICAL CURVE
PP PIPE PILE, PLASTIC PIPE, POWER POLE
PPL PREFORMED PERMEABLE LINER
PPP PERFORATED PLASTIC PIPE
PRC POINT OF REVERSE CURVE

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Table with 5 columns: REV, DATE, BY, CHK, APP, DESCRIPTION. Includes revision history and a date entry of 12/31/13.

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

GENERAL ABBREVIATIONS AND LEGENDS
SHEET 1 OF 2

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0010
SCALE NO SCALE
SHEET NO. 9 OF 16

P CONTINUED

PRF PAVEMENT REINFORCING FABRIC
 PRVC POINT OF REVERSE VERTICAL CURVE
 PS&E PLANS, SPECIFICATIONS AND ESTIMATES
 PS, P/S PRESTRESSED, PARALLEL STATION
 PSP PERFORATED STEEL PIPE
 PT POINT OF TANGENCY
 PVC POLYVINYL CHLORIDE
 PVI POINT OF VERTICAL INTERSECTION
 PVMT PAVEMENT
 PVP MAINTENANCE VEHICLE PULLOUT

Q

QTY QUANTITY

R

R RADIUS
 R & D REMOVE AND DISPOSE
 R & S REMOVE AND SALVAGE
 R/C RATE OF CHANGE
 RCA REINFORCED CONCRETE ARCH
 RCB REINFORCED CONCRETE BOX
 RCP REINFORCED CONCRETE PIPE
 RCPA REINFORCED CONCRETE PIPE ARCH
 RD ROAD
 REINF REINFORCED, REINFORCEMENT, REINFORCING
 REL RELOCATE
 REPL REPLACEMENT
 RET RETAINING
 REV REVISED
 RDWY ROADWAY
 RM ROAD-MIXED
 RP RADIUS POINT, REFERENCE POINT
 RR RAILROAD
 RSP ROCK SLOPE PROTECTION
 RT RIGHT
 RTE ROUTE
 RW REDWOOD, RETAINING WALL
 R/W, ROW RIGHT OF WAY
 RWY RAILWAY

S

S SOUTH, SUPPLEMENT
 SAE STRUCTURE APPROACH EMBANKMENT
 SALV SALVAGE
 SAPP STRUCTURAL ALUMINUM PLATE PIPE
 SB SOUTHBOUND
 SC SPIRAL TO CURVE
 SCSP SLOTTED CORRUGATED STEEL PIPE
 SD STORM DRAIN
 SEC SECOND
 SECT SECTION
 SEP SEPARATION
 SG SUBGRADE
 SHLD SHOULDER
 SHT SHEET
 SIM SIMILAR
 S STATION LINE
 SM SELECTED MATERIAL
 SPEC SPECIAL, SPECIFICATIONS
 SPP SLOTTED PLASTIC PIPE
 SS SLOPE STAKE, SPIRAL TO SPIRAL

S CONTINUED

SSBM STRAP AND SADDLE BRACKET METHOD
 SSD STRUCTURAL SECTION DRAIN
 SSPA STRUCTURAL STEEL PLATE ARCH
 SSPP STRUCTURAL STEEL PLATE PIPE
 SSPPA STRUCTURAL STEEL PLATE PIPE ARCH
 SSRP STEEL SPIRAL RIB PIPE
 SR STATE ROUTE
 ST STREET, SPIRAL TO TANGENT
 STA STATION
 STBB SINGLE THRIE BEAM BARRIER
 STD STANDARD
 STR STRUCTURE
 SRS STAND ALONE RADIO SITE
 SURF SURFACING
 SW SIDEWALK, SOUND WALL
 SWR SEWER
 SWS SWITCHING STATION
 SYM SYMMETRICAL
 S4S SURFACE 4 SIDES
 SJVR SAN JOAQUIN VALLEY RAILROAD

T

T SEMI-TANGENT
 TAB TABLET
 TAN TANGENT
 TBB THRIE BEAM BARRIER
 TBR TIMBER
 TC TOP OF CURB, TANGENT TO CURVE
 TCB TRAFFIC CONTROL BOX
 TEL TELEPHONE
 TEMP TEMPORARY
 TG TOP OF GRADE
 TOT TOTAL
 TM TECHNICAL MEMORANDUM
 TP TELEPHONE POLE
 TPB TREATED PERMEABLE BASE
 TPM TREATED PERMEABLE MATERIAL
 TPSS TRACTION POWER SUPPLY STATION
 TRANS TRANSITION, TRANSVERSE
 TS TRAFFIC SIGNAL, TUBULAR STEEL, TANGET TO SPIRAL
 TYP TYPICAL
 TOR TOP OF RAIL

U

UC UNDERCROSSING
 UD UNDERDRAIN
 UON UNLESS OTHERWISE NOTED
 UP UNDERPASS
 UPRR UNION PACIFIC RAILROAD
 USFWS UNITED STATES FISH AND WILDLIFE SERVICE

V

V VALVE, DESIGN SPEED
 VAR VARIABLE
 VC VERTICAL CURVE
 VCP VITRIFIED CLAY PIPE
 VERT VERTICAL
 VIA VIADUCT
 VOL VOLUME

W

W WEST, WIDTH
 WB WESTBOUND
 WH WEEP HOLE
 WM WIRE MESH
 WS WATER SURFACE
 WSP WELDED STEEL PIPE
 WT WEIGHT
 WV WATER VALVE
 WW WINGWALL
 WWLWL WINGWALL LAYOUT LINE
 W/ WITH

X

X SEC CROSS SECTION
 XING CROSSING

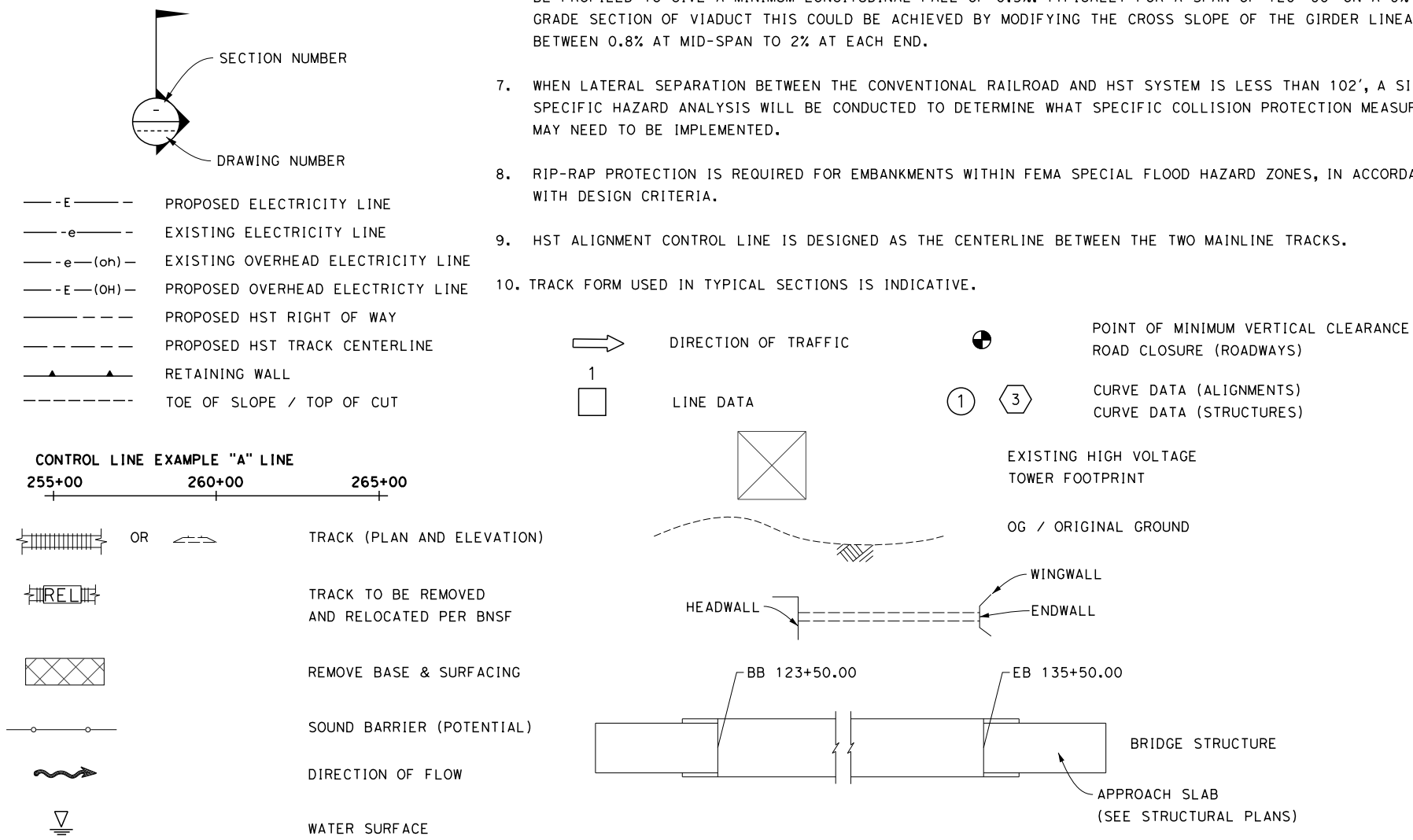
Y

YR YEAR
 YRS YEARS

GENERAL NOTES

1. TRACK PROFILE IS DESIGNED AS TOP OF THE LOW RAIL. VERTICAL CLEARANCE REQUIREMENTS ARE MEASURED FROM THE TOP OF THE HIGH RAIL ON SUPERELEVATED TRACK. THE CLEARANCE ENVELOPES SHOWN DEMONSTRATE THE MINIMUM CLEARANCE REQUIREMENTS.
2. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN. FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES.
3. THE FOLLOWING ARE ROADWAY DESIGN STANDARDS AND GUIDELINES:
 - A. CALTRANS HIGHWAY DESIGN MANUAL (2012)
 - B. AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2011)
 - C. AASHTO ROADSIDE DESIGN GUIDE (2011)
 - D. APPLICABLE LOCAL DESIGN STANDARD AND GUIDELINES (I.E., CITY OF FRESNO)
4. THE FEMA FLOODPLAIN BOUNDARIES ARE CALLED OUT AS "LIMIT OF 100YR FEMA FLOODPLAIN". THE LIMITS OF THE MODELED 100 YEAR WATER SURFACE ELEVATIONS (WSE) ARE APPROXIMATE AND ARE MARKED WITH THE NAME OF THE WATERBODY ASSOCIATED WITH THE MODELED FLOODING, E.G. "LIMIT OF POSO CREEK FLOODPLAIN".
5. THE STRUCTURE DESIGN ASSUMES THAT THE DEPTH FROM TOR TO TOP OF DECK IS 2'-6" THROUGHOUT. HOWEVER, WHERE BALLASTED TRACK FORM IS USED, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-9" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE, AND PROTECTION LAYER IF REQUIRED. FOR SLAB TRACKFORM, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-6" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE AND PROTECTION LAYER IF REQUIRED.
6. WHERE THE VERTICAL ALIGNMENT GRADE IS LESS THAN 0.5% THE UPPER SURFACE OF THE VIADUCT STRUCTURE SHALL BE PROFILED TO GIVE A MINIMUM LONGITUDINAL FALL OF 0.5%. TYPICALLY FOR A SPAN OF 120'-00" ON A 0% GRADE SECTION OF VIADUCT THIS COULD BE ACHIEVED BY MODIFYING THE CROSS SLOPE OF THE GIRDER LINEARLY BETWEEN 0.8% AT MID-SPAN TO 2% AT EACH END.
7. WHEN LATERAL SEPARATION BETWEEN THE CONVENTIONAL RAILROAD AND HST SYSTEM IS LESS THAN 102', A SITE SPECIFIC HAZARD ANALYSIS WILL BE CONDUCTED TO DETERMINE WHAT SPECIFIC COLLISION PROTECTION MEASURES MAY NEED TO BE IMPLEMENTED.
8. RIP-RAP PROTECTION IS REQUIRED FOR EMBANKMENTS WITHIN FEMA SPECIAL FLOOD HAZARD ZONES, IN ACCORDANCE WITH DESIGN CRITERIA.
9. HST ALIGNMENT CONTROL LINE IS DESIGNED AS THE CENTERLINE BETWEEN THE TWO MAINLINE TRACKS.
10. TRACK FORM USED IN TYPICAL SECTIONS IS INDICATIVE.

LEGEND



\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. SEYMOUR
 DRAWN BY
P. TONKIN
 CHECKED BY
D. HUNT
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 GENERAL
 ABBREVIATIONS AND LEGENDS
 SHEET 2 OF 2

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB0011
 SCALE
NO SCALE
 SHEET NO.
10 OF 16

ALIGNMENT F1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
1	220	21296.75	6.75	2.34	3000/2500	12747

ALIGNMENT M

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
2	250	70000	2.50	1.07	1200	1500
3	250	45000	3.75	1.81	1500	5364
4	250	45000	3.75	1.81	1500	3363
5	250	70000	2.50	1.07	1200	1486

ALIGNMENT H

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
6	250	29000	5.75	2.87	2000	19086
7	250	36500	4.25	2.60	1700	37009

ALIGNMENT HW

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
30	250	45000	3.75	1.81	1500	13826
31	250	28008.25	6.00	2.93	2500	4513

ALIGNMENT HW2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
130	250	45000	3.75	1.81	1500	13827
131	250	45000	3.75	1.81	1500	10443

ALIGNMENT K1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
32	250	28600	6.00	2.74	2500	4145
33	250	100000	1.50	1.00	1200	4694
34	250	85000	1.75	1.19	1200	1237
35	250	170000	1.00	0.47	1200	3692

ALIGNMENT K2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
36	220	22008.25	6.00	2.80	1800	8446
37	250	45000	3.75	1.81	1600	6233

ALIGNMENT K3

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
40	250	28600	6.00	2.74	2500	9439
41	250	28600	6.00	2.74	2500	24733

ALIGNMENT K4

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
8	250	30500	5.50	2.70	2300	9796
9	250	30500	5.50	2.70	2300	26096

ALIGNMENT K5

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
133	250	100000	1.50	1.00	1200	26432
134	250	85000	1.75	1.19	1200	1237
135	250	170000	0.00	1.47	1200	3692

ALIGNMENT K6

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
137	250	60000	2.75	1.42	1200	20392
138	250	60000	2.75	1.42	1200	3800

ALIGNMENT C1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
50	250	140000	0.75	1.04	1200	3807
51	250	66000	2.25	1.54	1200	1188
52	250	80000	2.00	1.13	900	2655
53	250	80000	2.00	1.13	900	2708

ALIGNMENT C2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
10	250	33000	5.00	2.58	2000	6870
11	250	32000	5.25	2.56	2100	15313
12	250	41000	4.00	2.10	1600	9735

ALIGNMENT C3

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
60	250	315000	0.00	0.79	1200	1215
61	250	116500	1.00	1.15	900	1831
62	250	125000	1.00	1.00	900	1166

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY P. TONKIN
DRAWN BY P. TONKIN
CHECKED BY K. SEYMOUR
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

ALIGNMENT
CURVE DATA
SHEET 1 OF 2

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0012
SCALE NO SCALE
SHEET NO. 11 OF 16

ALIGNMENT P

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
13	250	200000	0.00	0.13	0	1999

ALIGNMENT A1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
14	250	50500	3.50	1.45	1400	21393
15	250	45000	3.75	1.81	1500	25440.83
16	250	45000	3.75	1.81	1500	29556/22710

ALIGNMENT A2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
70	250	45000	3.75	1.81	1500	10257.35
71	250	45000	3.75	1.81	1500	11168.36

ALIGNMENT L1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
16	250	45000	3.75	1.81	1500	29556

ALIGNMENT L2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
16	250	45000	3.75	1.81	1500	22710
92	250	45000	3.75	1.81	1500	15689

ALIGNMENT L4

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
111	250	45000	3.75	1.81	1500	22536

ALIGNMENT WS1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
17	220	22008.25	6.50	2.30	2100	15380
18	250	640000	0.00	0.39	1200	4007
19	250	50000	2.75	2.25	1200	2221
20	250	68000	2.50	1.18	1200	4447
21	250	69000	2.50	1.12	1200	1216

ALIGNMENT WS2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
80	250	60000	3.00	1.17	1200	14392

ALIGNMENT B1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
22	250	60000	2.75	1.42	1200	1200
23	220	19508.25	7.00	2.92	1714	17153
24	220	19508.25	7.00	2.92	1714	2676
25	220	30008.25	3.50	2.95	956	1291
26	220	20008.34	7.00	2.68	1720	5348

ALIGNMENT B2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
100	250	60000	2.75	1.42	1200	1200
101	220	19508.25	7.00	2.92	1700	17086.93
102	220	19680	7.00	2.84	1692.55	2375
103	220	23508	5.50	2.74	1331.22	1432.02
104	220	33008	3.50	2.37	1050	2770.34
105	220	20008	7.00	2.68	1720.24	4097.46

ALIGNMENT B3

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
120	250	60000	2.75	1.42	1200	1200
121	220	19508.25	7.00	2.92	1700	17087
122	220	19680	7.00	2.84	1700	2375
123	130	10108.25	3.75	2.94	640	1245
124	125	8108.25	4.75	2.96	780	1896
125	145	9500	6.00	2.85	1300	2842

STANDARD STATION TRACK RETURN CURVE

DESIGN SPEED (MPH)	TOTAL LENGTH ALONG MAIN TRACK	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
110	1364.60	13500	1.25	2.34	160	320.21

B3 STATION TRACKS RETURN CURVE

DESIGN SPEED (MPH)	TOTAL LENGTH ALONG MAIN TRACK	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
80	991.80	7000	1.25	2.41	120	222.24

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. TONKIN
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALIGNMENT
CURVE DATA
SHEET 2 OF 2

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0013
SCALE
NO SCALE
SHEET NO.
12 OF 16

LEGEND

- COUNTY LINES
- B1 CHST ALIGNMENT OPTIONS
- SUPPLY STATION
- SWITCHING STATION
- PARALLELING STATION
- 5.0 SPACING (MILES)

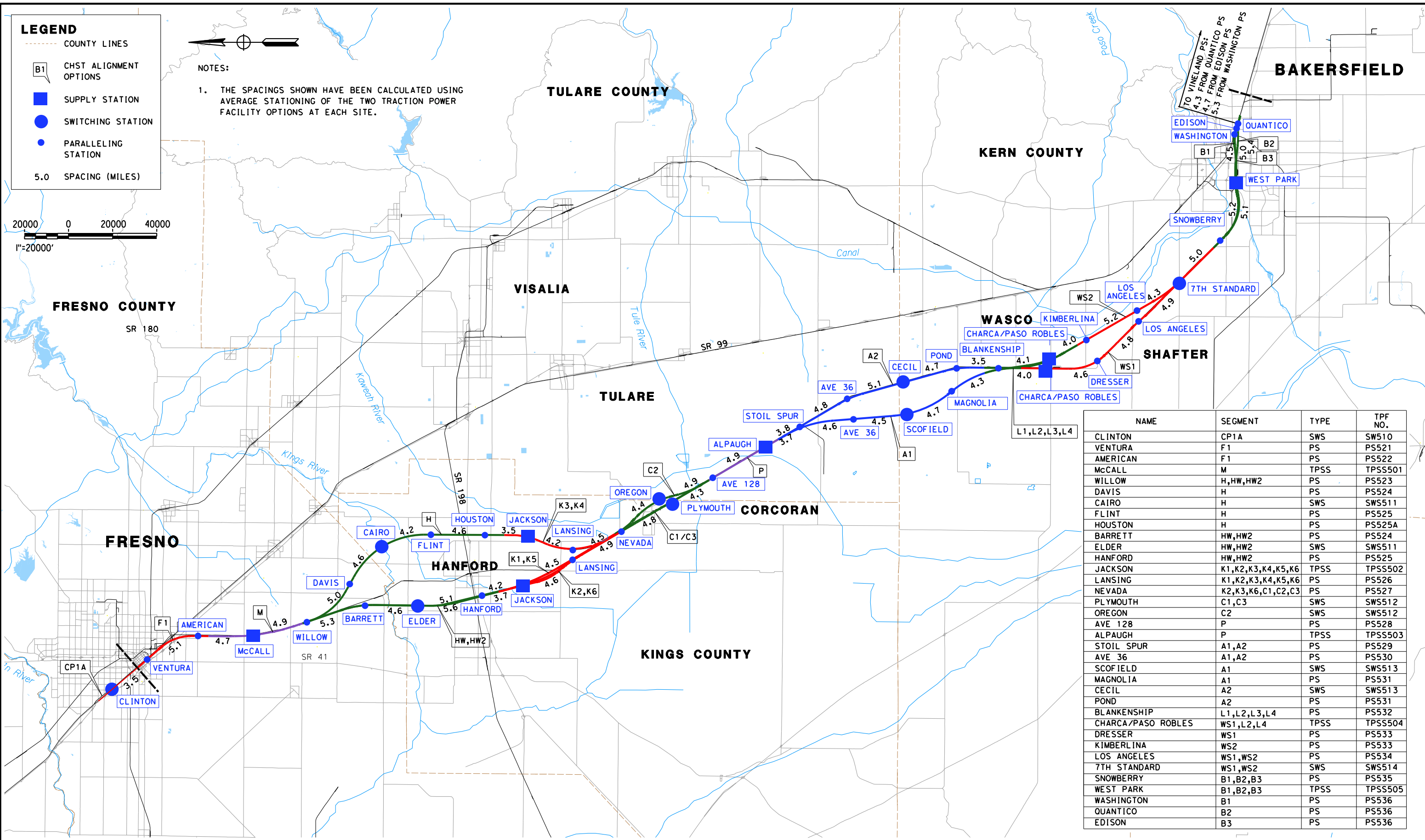


NOTES:

1. THE SPACINGS SHOWN HAVE BEEN CALCULATED USING AVERAGE STATIONING OF THE TWO TRACTION POWER FACILITY OPTIONS AT EACH SITE.



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 sPENTBL\$
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NAME	SEGMENT	TYPE	TPF NO.
CLINTON	CP1A	SWS	SW510
VENTURA	F1	PS	PS521
AMERICAN	F1	PS	PS522
McCALL	M	TPSS	TPSS501
WILLOW	H,HW,HW2	PS	PS523
DAVIS	H	PS	PS524
CAIRO	H	SWS	SWS511
FLINT	H	PS	PS525
HOUSTON	H	PS	PS525A
BARRETT	HW,HW2	PS	PS524
ELDER	HW,HW2	SWS	SWS511
HANFORD	HW,HW2	PS	PS525
JACKSON	K1,K2,K3,K4,K5,K6	TPSS	TPSS502
LANSING	K1,K2,K3,K4,K5,K6	PS	PS526
NEVADA	K2,K3,K6,C1,C2,C3	PS	PS527
PLYMOUTH	C1,C3	SWS	SWS512
OREGON	C2	SWS	SWS512
AVE 128	P	PS	PS528
ALPAUGH	P	TPSS	TPSS503
STOIL SPUR	A1,A2	PS	PS529
AVE 36	A1,A2	PS	PS530
SCOFIELD	A1	SWS	SWS513
MAGNOLIA	A1	PS	PS531
CECIL	A2	SWS	SWS513
POND	A2	PS	PS531
BLANKENSHIP	L1,L2,L3,L4	PS	PS532
CHARCA/PASO ROBLES	WS1,L2,L4	TPSS	TPSS504
DRESSER	WS1	PS	PS533
KIMBERLINA	WS2	PS	PS533
LOS ANGELES	WS1,WS2	PS	PS534
7TH STANDARD	WS1,WS2	SWS	SWS514
SNOWBERRY	B1,B2,B3	PS	PS535
WEST PARK	B1,B2,B3	TPSS	TPSS505
WASHINGTON	B1	PS	PS536
QUANTICO	B2	PS	PS536
EDISON	B3	PS	PS536

DESIGNED BY
J. SCHNURBUSCH
 DRAWN BY
J. SCHNURBUSCH
 CHECKED BY
A. THIBODEAU
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

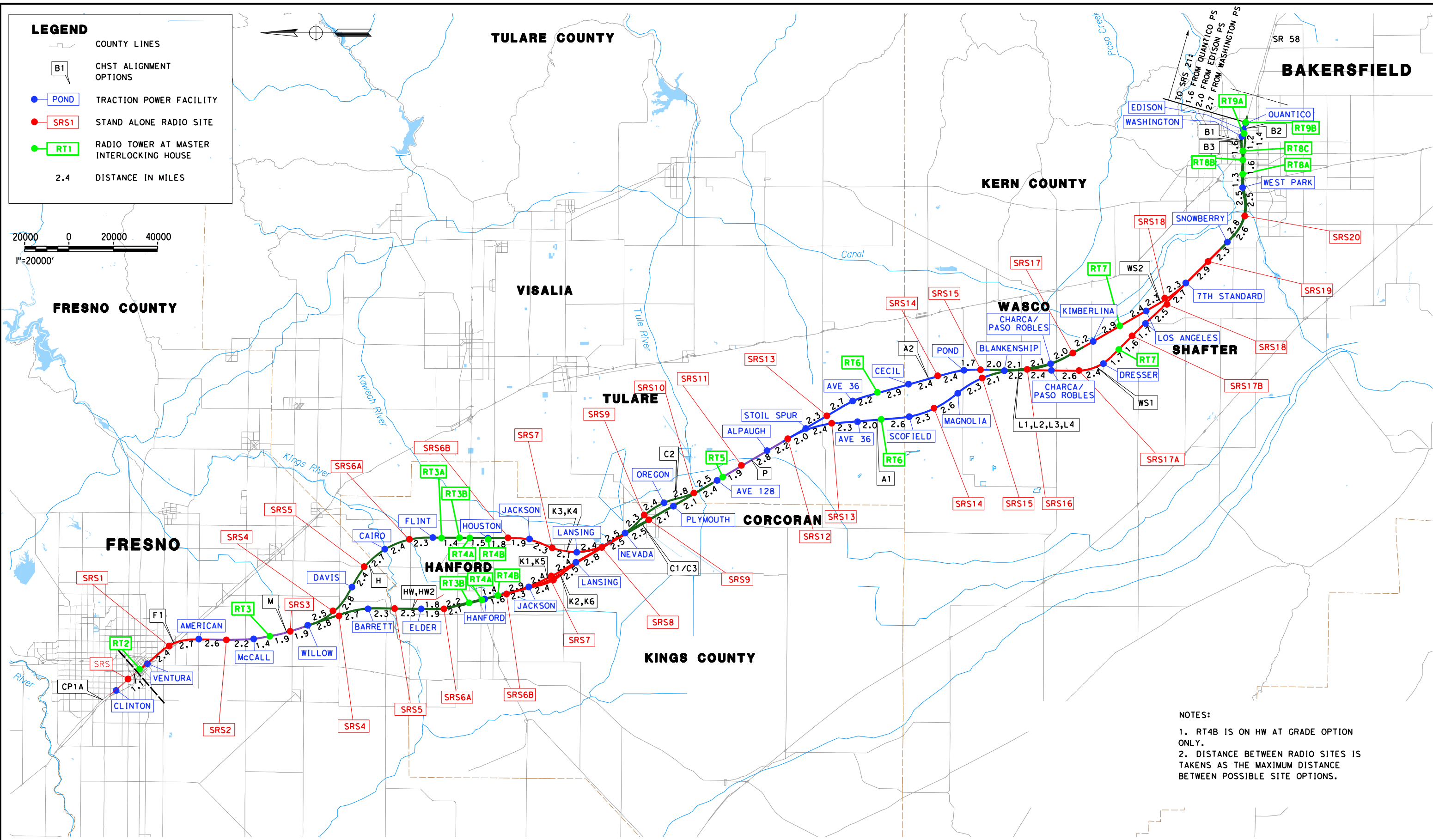


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 TPSS
 LOCATION MAP

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CB0014
 SCALE
 AS SHOWN
 SHEET NO.
 13 OF 16

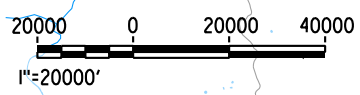
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LEGEND

- COUNTY LINES
- CHST ALIGNMENT OPTIONS
- TRACTION POWER FACILITY
- STAND ALONE RADIO SITE
- RADIO TOWER AT MASTER INTERLOCKING HOUSE
- 2.4 DISTANCE IN MILES



- NOTES:**
1. RT4B IS ON HW AT GRADE OPTION ONLY.
 2. DISTANCE BETWEEN RADIO SITES IS TAKENS AS THE MAXIMUM DISTANCE BETWEEN POSSIBLE SITE OPTIONS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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DRAWN BY
J. SCHNURBUSCH
CHECKED BY
A. THIBODEAU
IN CHARGE
R. COFFIN
DATE
12/31/13

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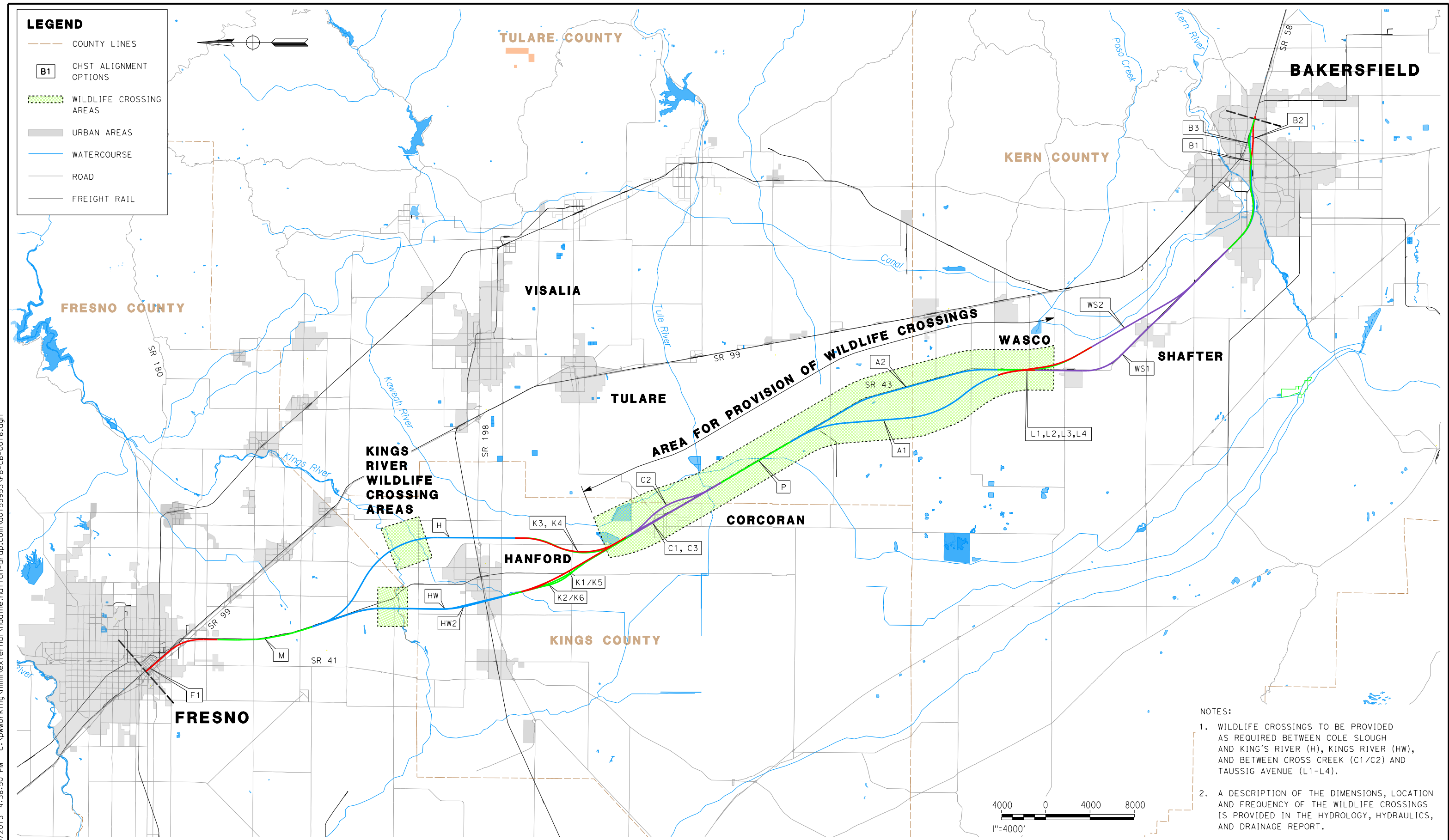
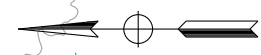


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
COMMUNICATIONS RADIO SITES
LOCATION MAP

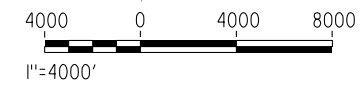
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0015
SCALE
AS SHOWN
SHEET NO.
14 OF 16

LEGEND

- COUNTY LINES
- B1 CHST ALIGNMENT OPTIONS
- WILDLIFE CROSSING AREAS
- URBAN AREAS
- WATERCOURSE
- ROAD
- FREIGHT RAIL



- NOTES:**
1. WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN COLE SLOUGH AND KING'S RIVER (H), KINGS RIVER (HW), AND BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-L4).
 2. A DESCRIPTION OF THE DIMENSIONS, LOCATION AND FREQUENCY OF THE WILDLIFE CROSSINGS IS PROVIDED IN THE HYDROLOGY, HYDRAULICS, AND DRAINAGE REPORT.



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DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE
12/31/13

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

WILDLIFE CROSSINGS
LOCATION MAP

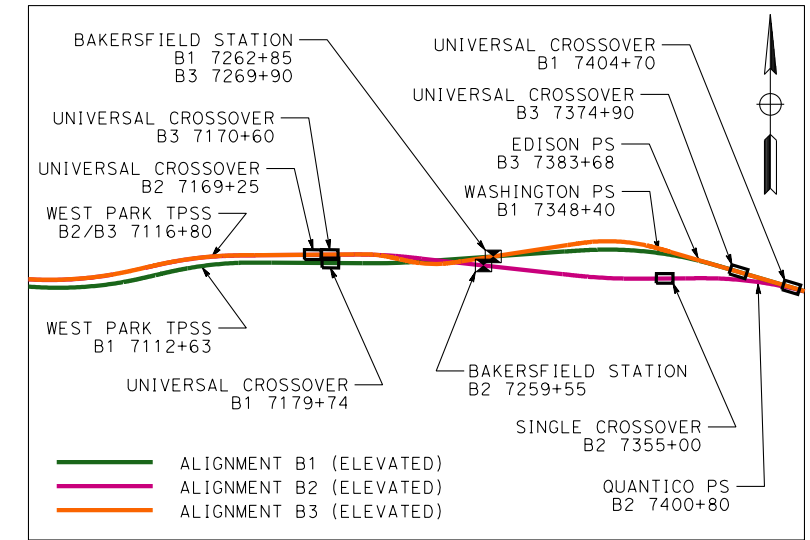
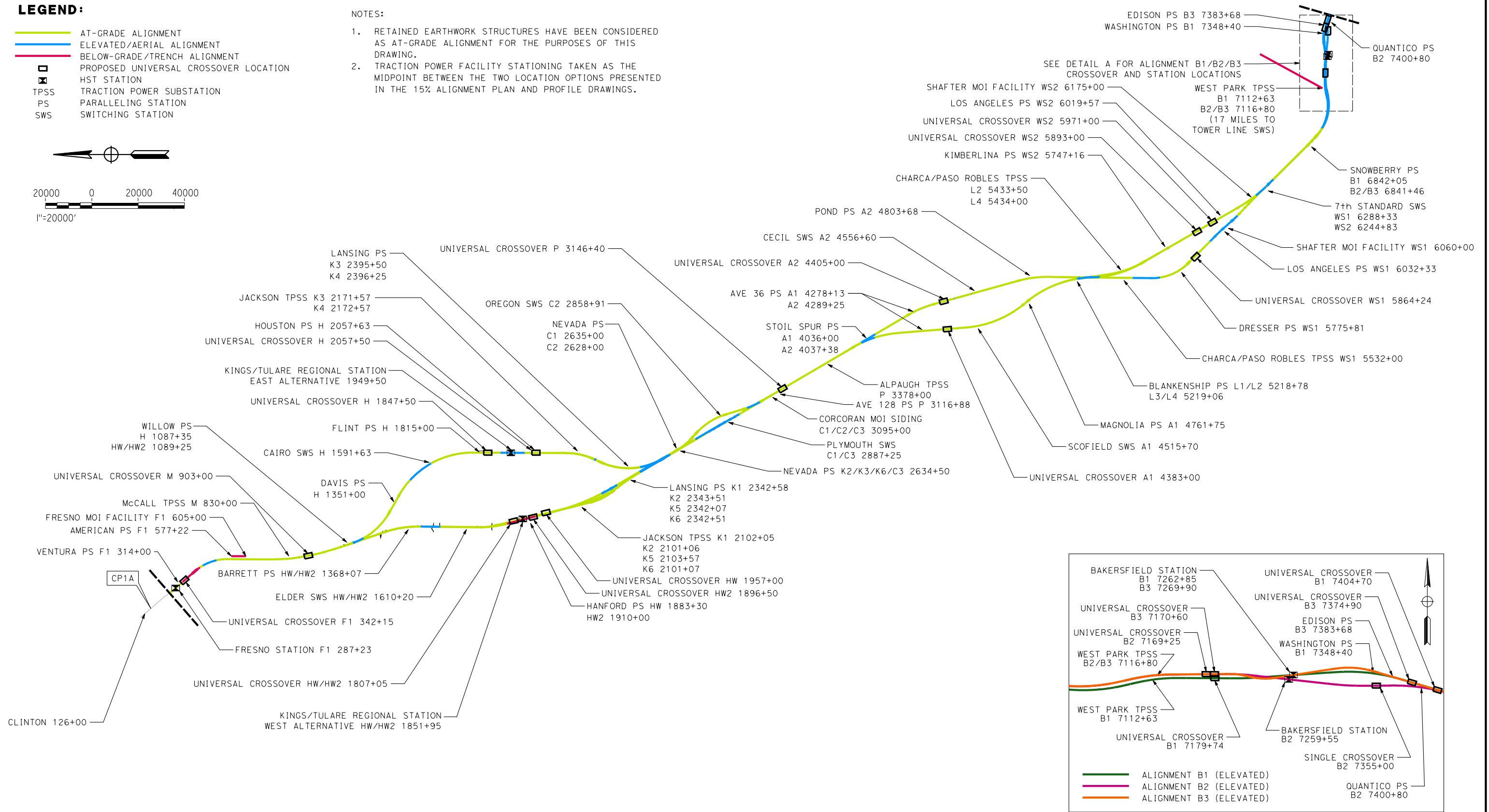
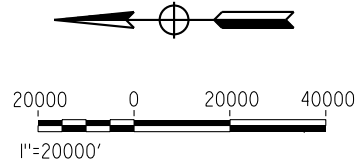
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0016
SCALE
AS SHOWN
SHEET NO.
15 OF 16

LEGEND:

- AT-GRADE ALIGNMENT
- ELEVATED/AERIAL ALIGNMENT
- BELOW-GRADE/TRENCH ALIGNMENT
- PROPOSED UNIVERSAL CROSSOVER LOCATION
- HST STATION
- TPSS
- PS
- SWS

NOTES:

1. RETAINED EARTHWORK STRUCTURES HAVE BEEN CONSIDERED AS AT-GRADE ALIGNMENT FOR THE PURPOSES OF THIS DRAWING.
2. TRACTION POWER FACILITY STATIONING TAKEN AS THE MIDPOINT BETWEEN THE TWO LOCATION OPTIONS PRESENTED IN THE 15% ALIGNMENT PLAN AND PROFILE DRAWINGS.



DETAIL A
ALIGNMENT B1/B2/B3 CROSSOVER AND STATION LOCATIONS
1"=10000'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. SCHNURBUSCH

DRAWN BY
J. SCHNURBUSCH

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A. THIBODEAU

IN CHARGE
R. COFFIN

DATE
12/31/13

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
TRACTION POWER FACILITY, CROSSOVER & STATION
LOCATION EXHIBIT

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CB0017

SCALE
AS SHOWN

SHEET NO.
16 OF 16

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LEGEND

- +—+—+ EXISTING FREIGHT RAILROAD
- PROPOSED CHST



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DESIGNED BY
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 DRAWN BY
P. TONKIN
 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
12/31/13

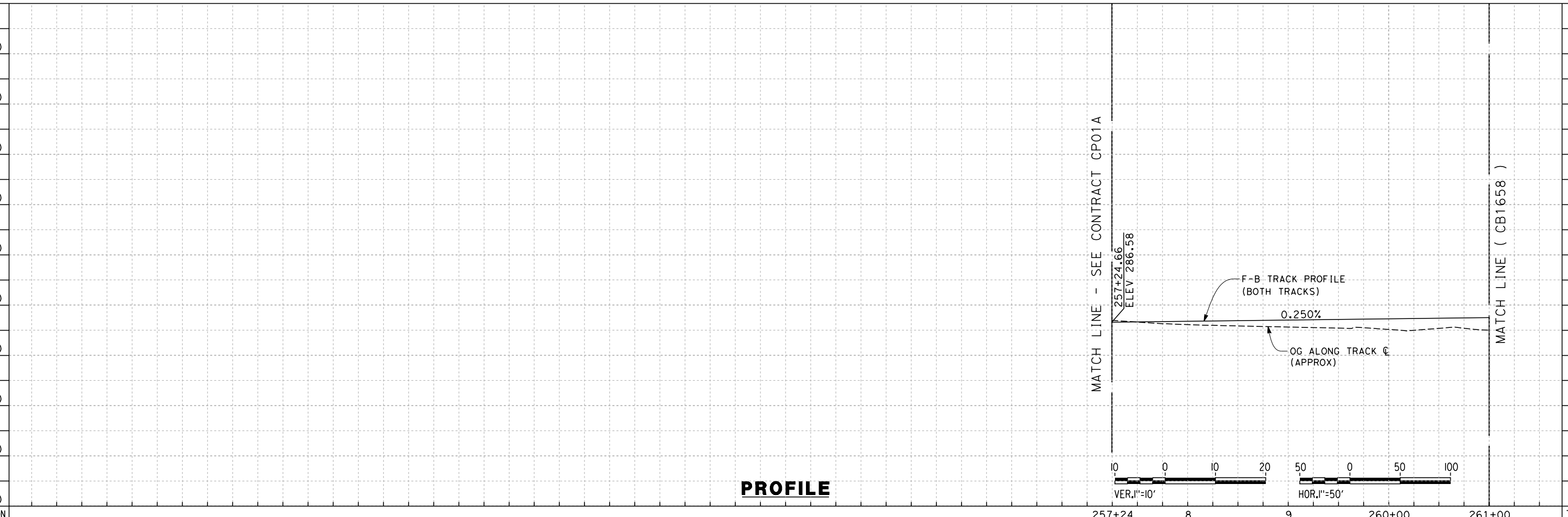
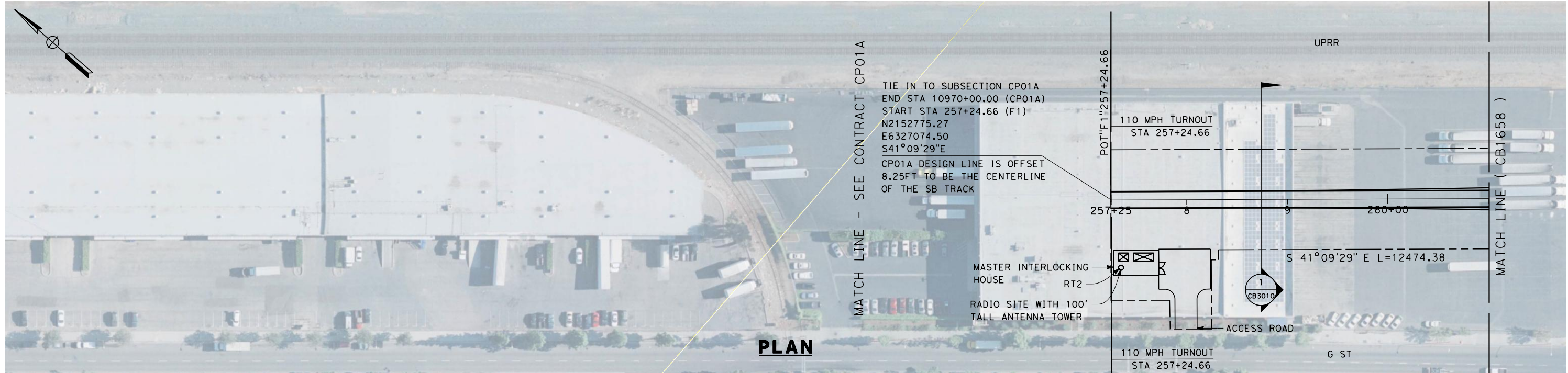
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DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 FRESNO SUBSECTION
 ALIGNMENT F1
 STA. 257+24 TO 627+07
 KEY MAP

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB1650
 SCALE
AS SHOWN
 SHEET NO.
1 OF 24



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
 DRAWN BY
P. TONKIN
 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
03/19/13

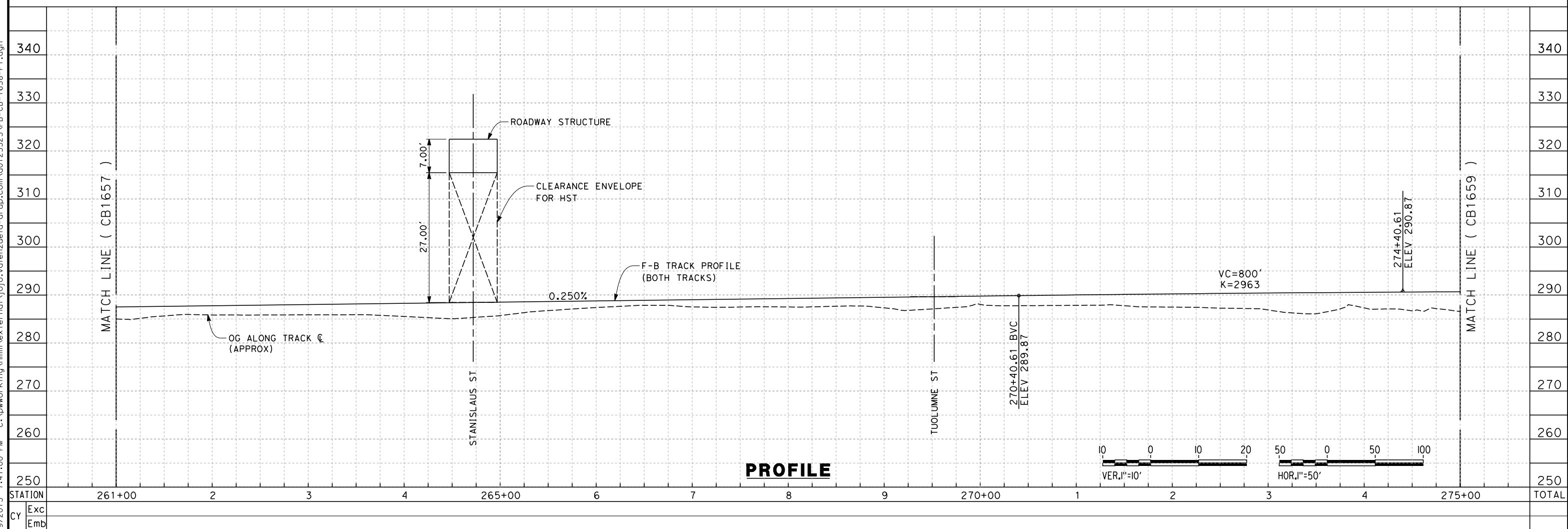
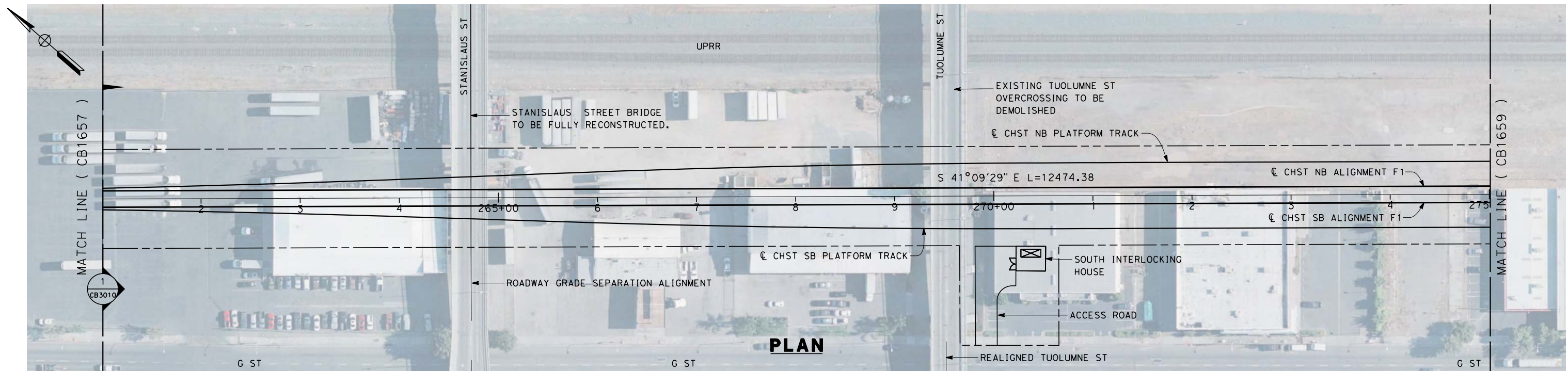
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DESIGN SUBMISSION**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
ALIGNMENT F1
STA. 257+24 TO 261+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB1657
 SCALE
AS SHOWN
 SHEET NO.
2 OF 24



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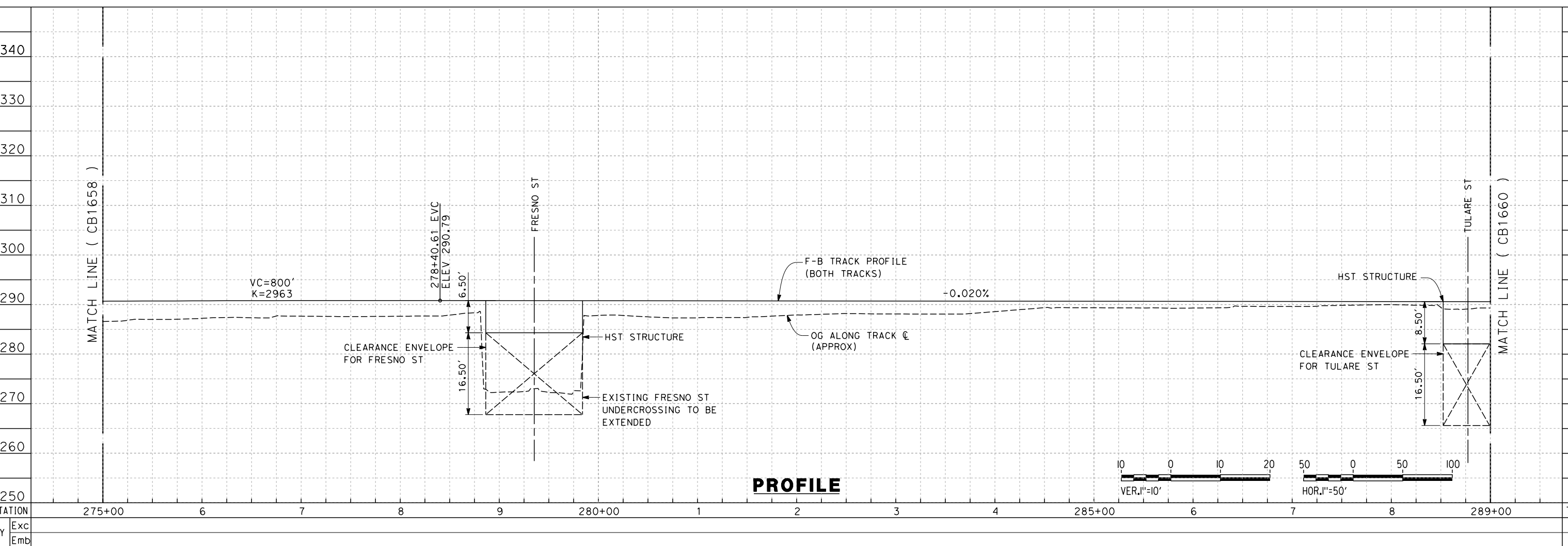
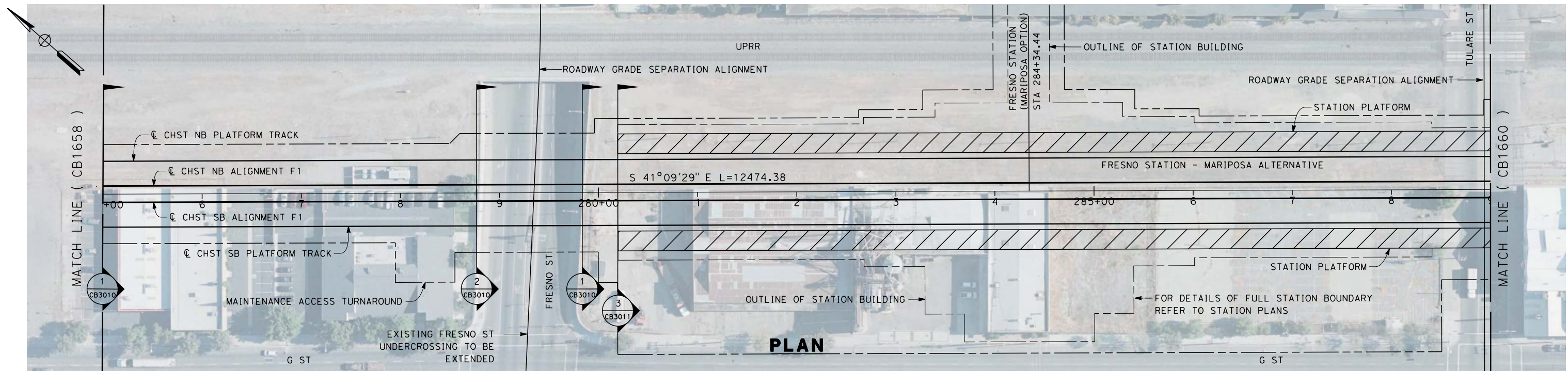
DESIGNED BY
A. POLING
 DRAWN BY
P. TONKIN
 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
 ALIGNMENT F1
 STA. 261+00 TO 275+00
 PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB1658
 SCALE
AS SHOWN
 SHEET NO.
3 OF 24



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 A. POLING
 DRAWN BY
 P. TONKIN
 CHECKED BY
 K. SEYMOUR
 IN CHARGE
 R. COFFIN
 DATE
 12/31/13

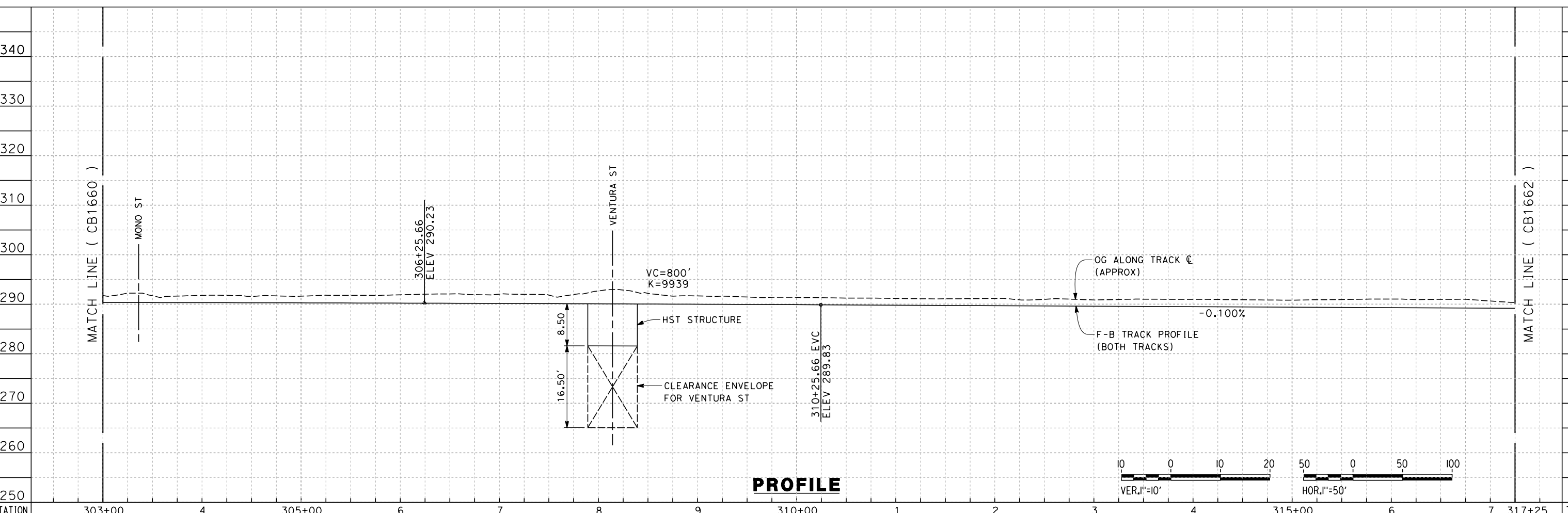
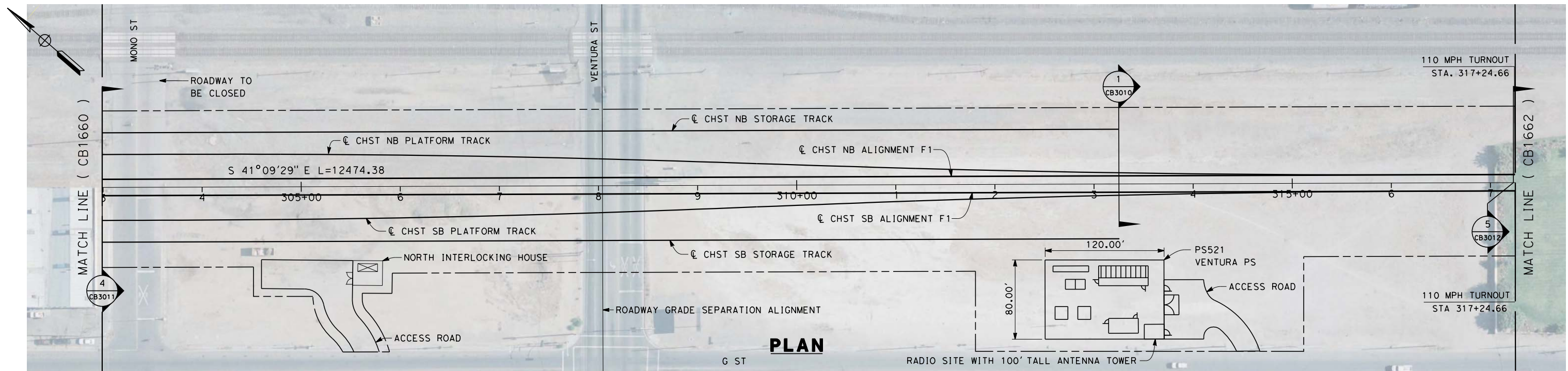
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 DESIGN SUBMISSION**

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 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
 ALIGNMENT F1
 STA. 275+00 TO 289+00
 PLAN AND PROFILE

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CB1659
 SCALE
 AS SHOWN
 SHEET NO.
 4 OF 24



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

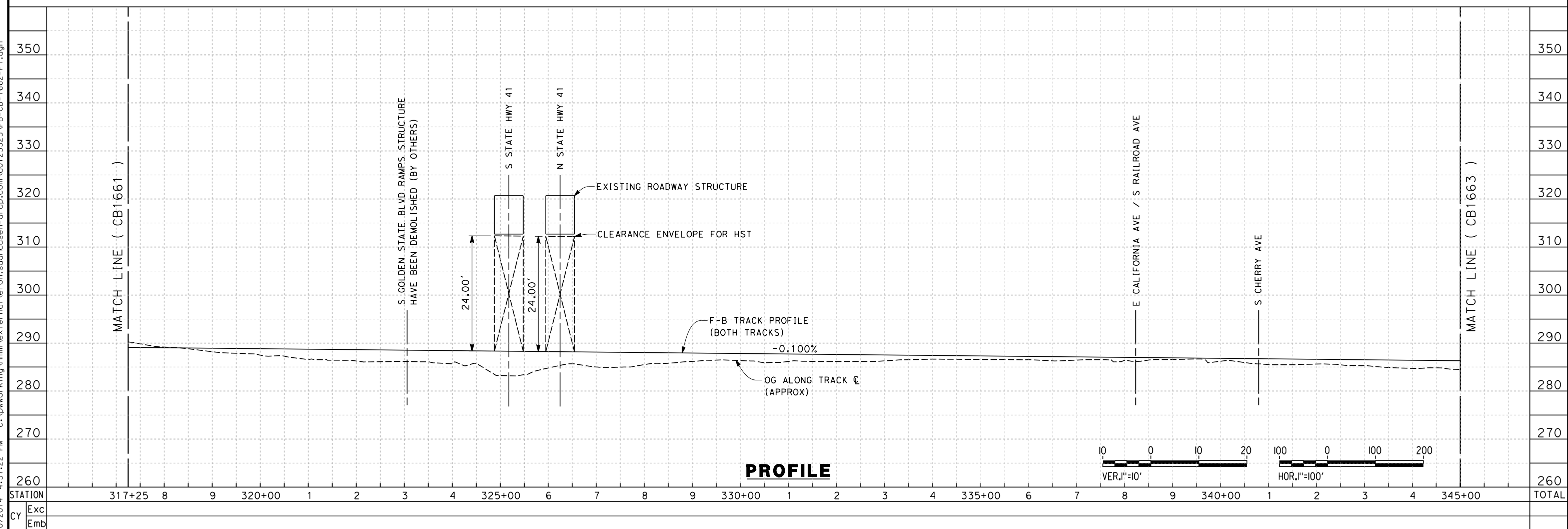
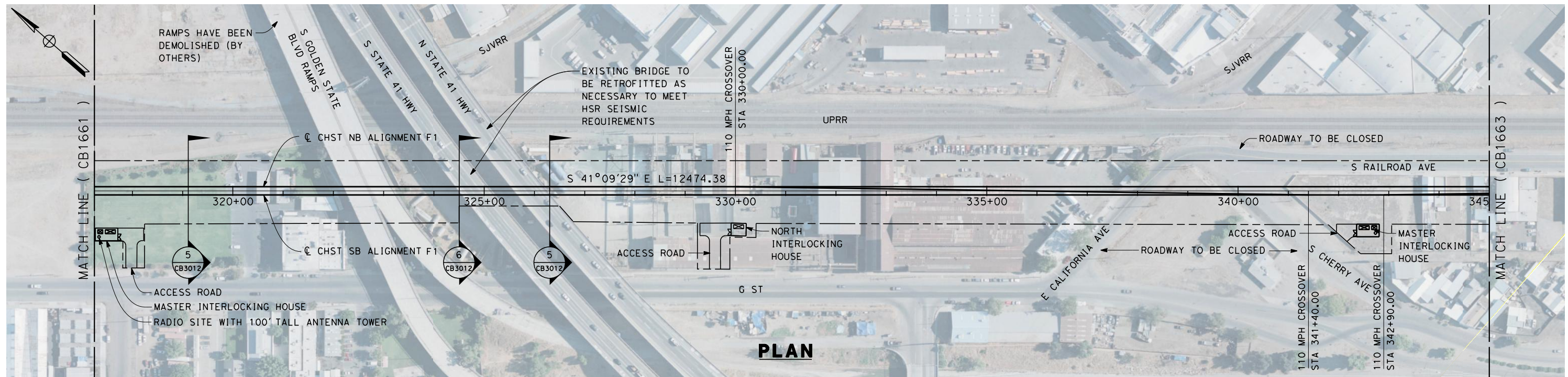
**RECORD SET 15%
DESIGN SUBMISSION**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
STA. 303+00 TO 317+25
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1661
SCALE
AS SHOWN
SHEET NO.
6 OF 24



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
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P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
03/19/13

**RECORD SET 15%
DESIGN SUBMISSION**

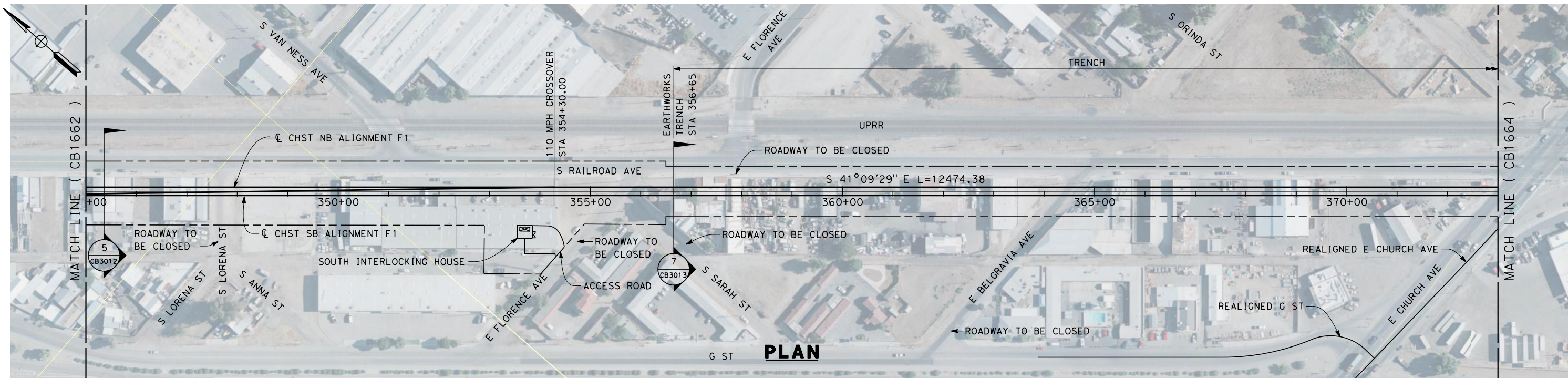
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CONSTRUCTION**



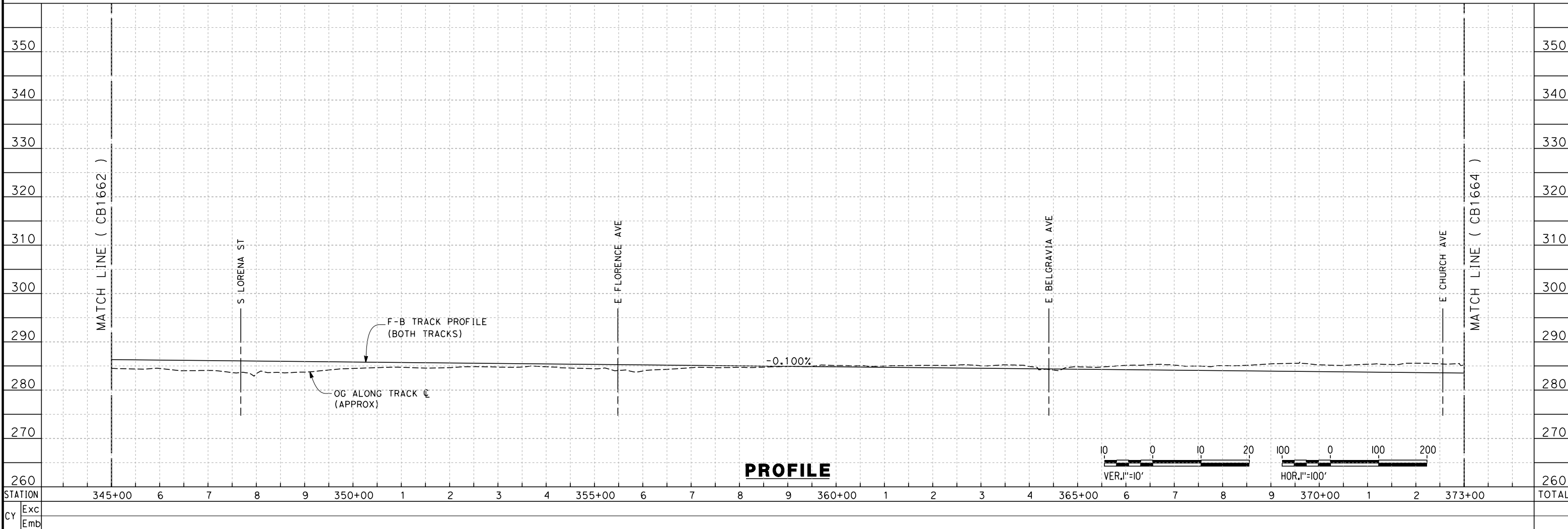
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FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
STA. 317+25 TO 345+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1662
SCALE
AS SHOWN
SHEET NO.
7 OF 24

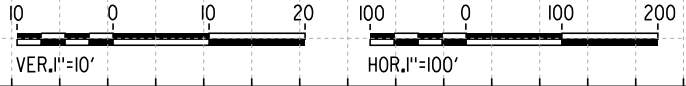
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PLAN



PROFILE



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
 DRAWN BY
P. TONKIN
 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
03/19/13

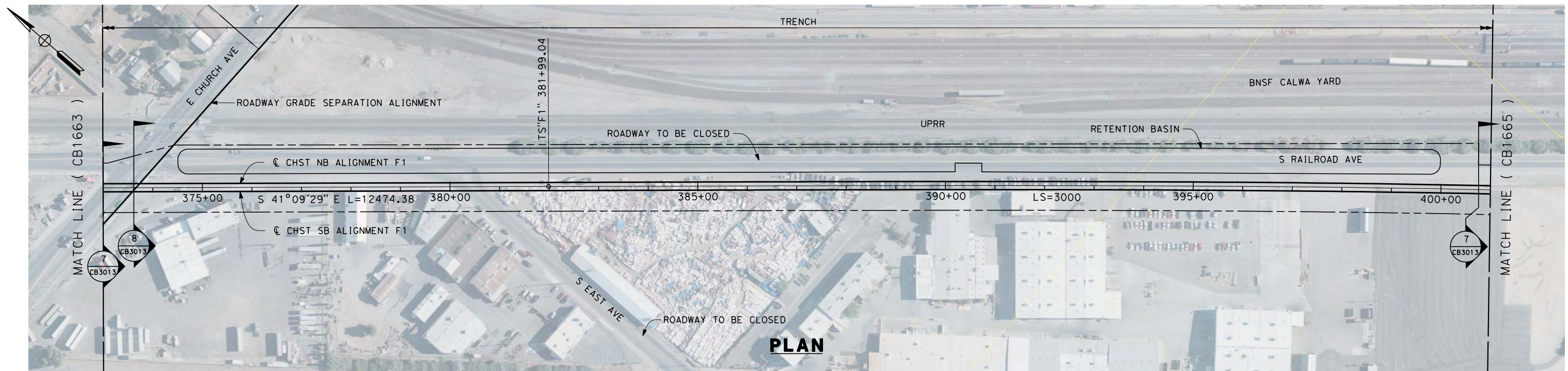
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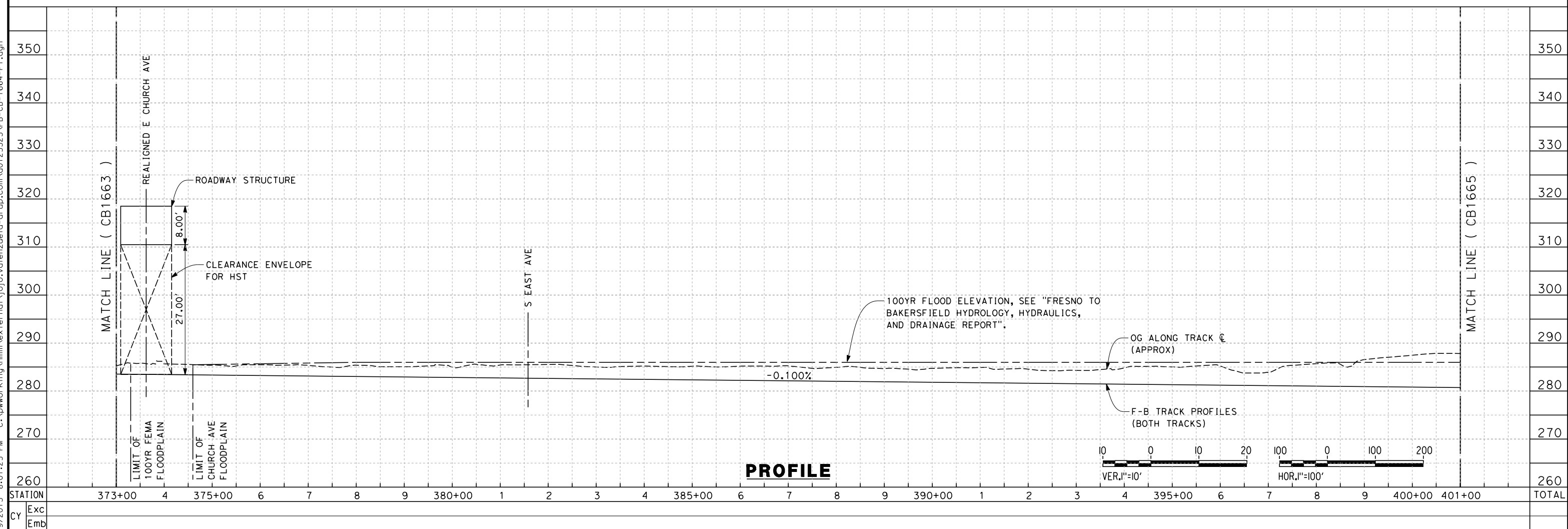
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
 ALIGNMENT F1
 STA. 345+00 TO 373+00
 PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB1663
 SCALE
AS SHOWN
 SHEET NO.
8 OF 24



PLAN

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PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

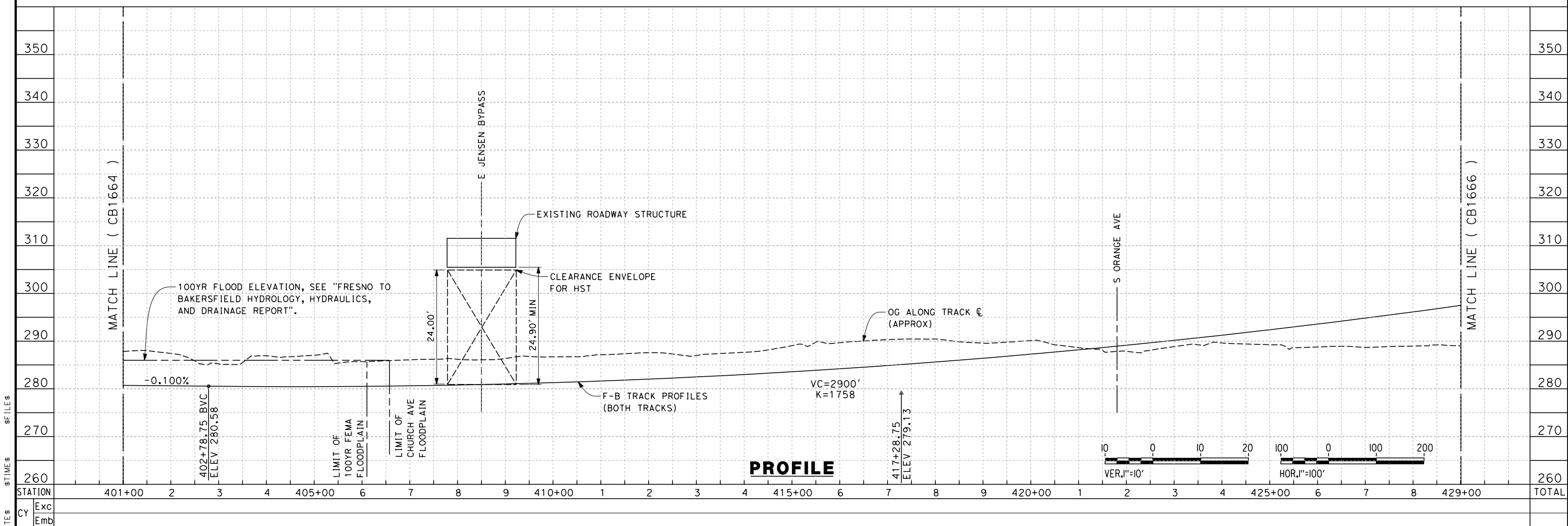
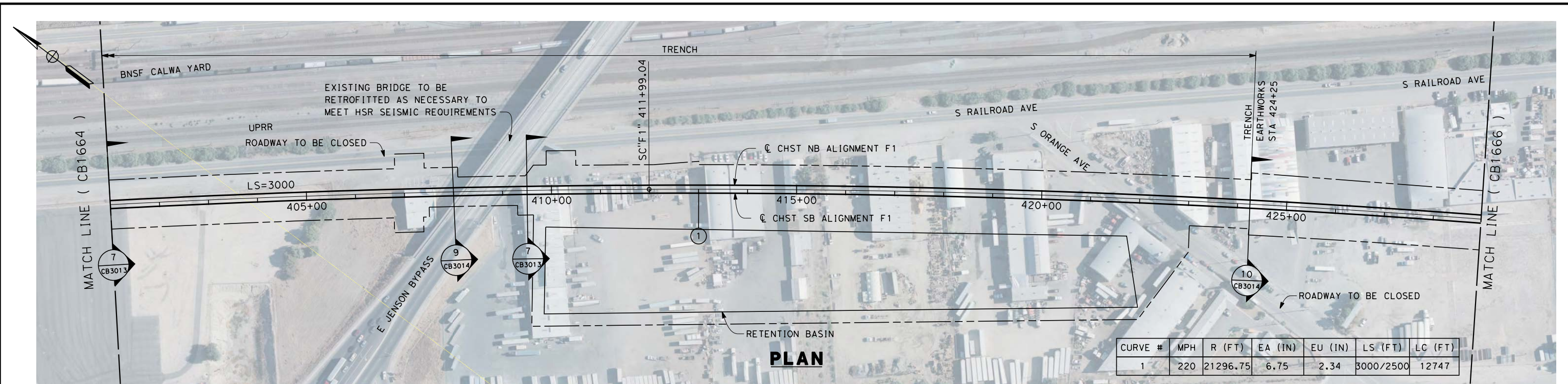
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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

FRESNO SUBSECTION
ALIGNMENT F1
STA. 373+00 TO 401+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1664
SCALE
AS SHOWN
SHEET NO.
9 OF 24



REV	DATE	BY	CHK	APP	DESCRIPTION

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A. POLING
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P. TONKIN
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IN CHARGE
R. COFFIN
DATE
03/19/13

**RECORD SET 15%
DESIGN SUBMISSION**

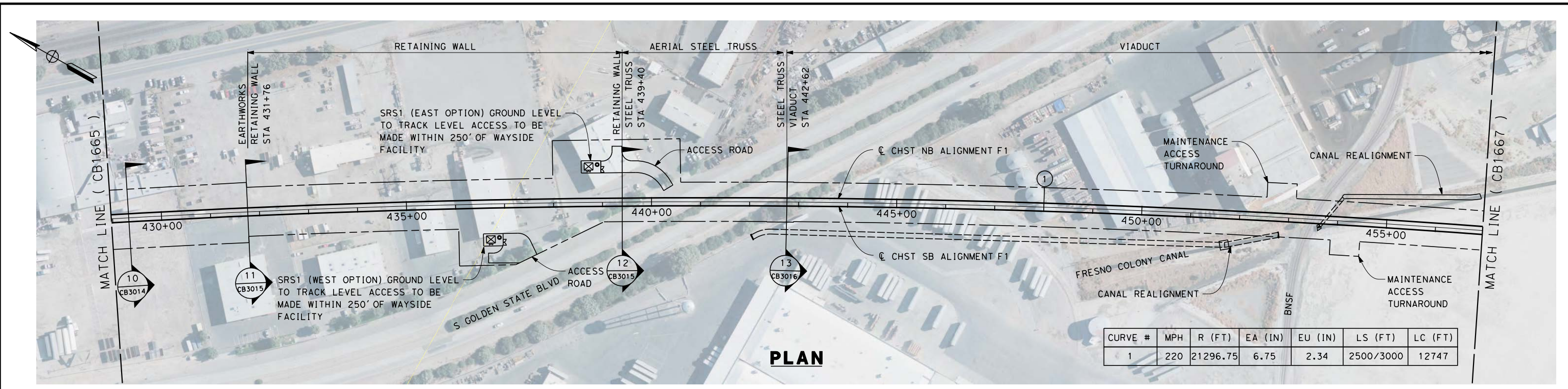
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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

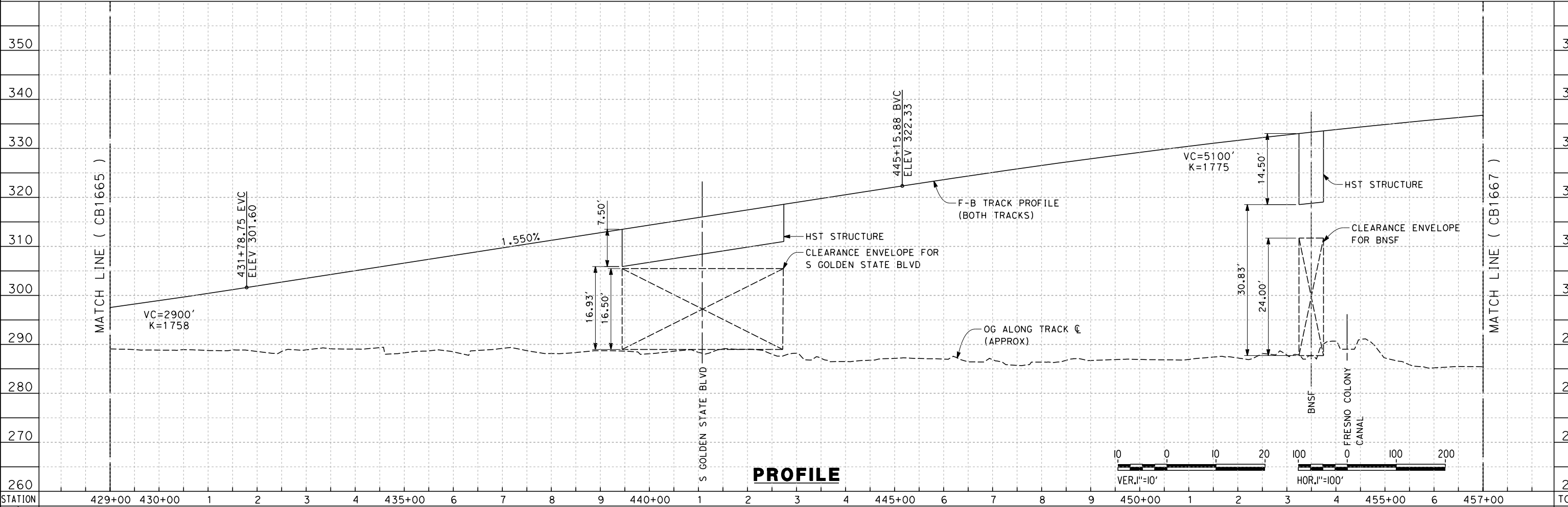
FRESNO SUBSECTION
ALIGNMENT F1
STA. 401+00 TO 429+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1665
SCALE
AS SHOWN
SHEET NO.
10 OF 24

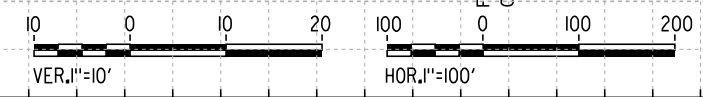


CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
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PLAN



PROFILE



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
DRAWN BY
P. TONKIN
CHECKED BY
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IN CHARGE
R. COFFIN
DATE
12/31/13

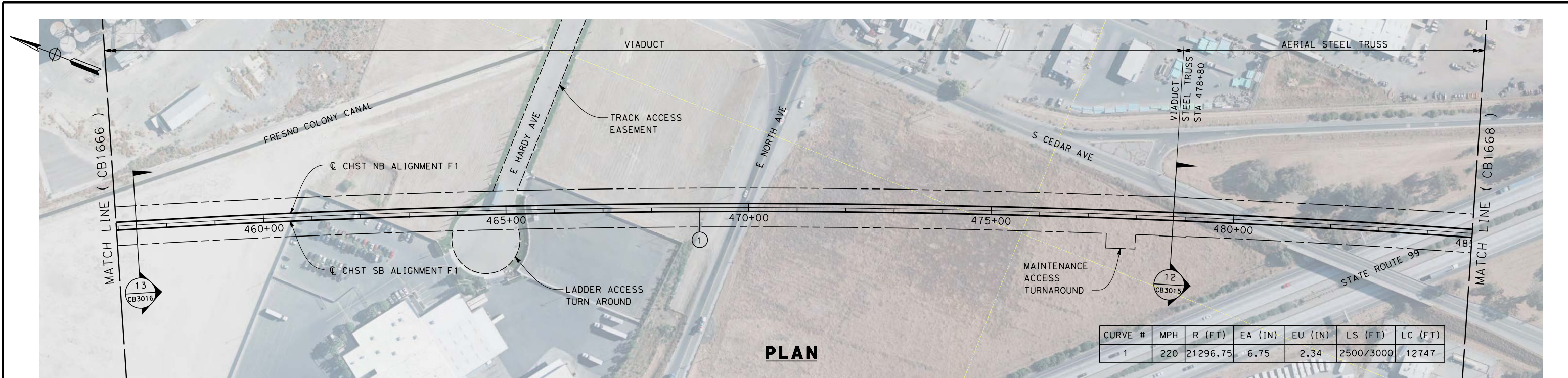
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DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



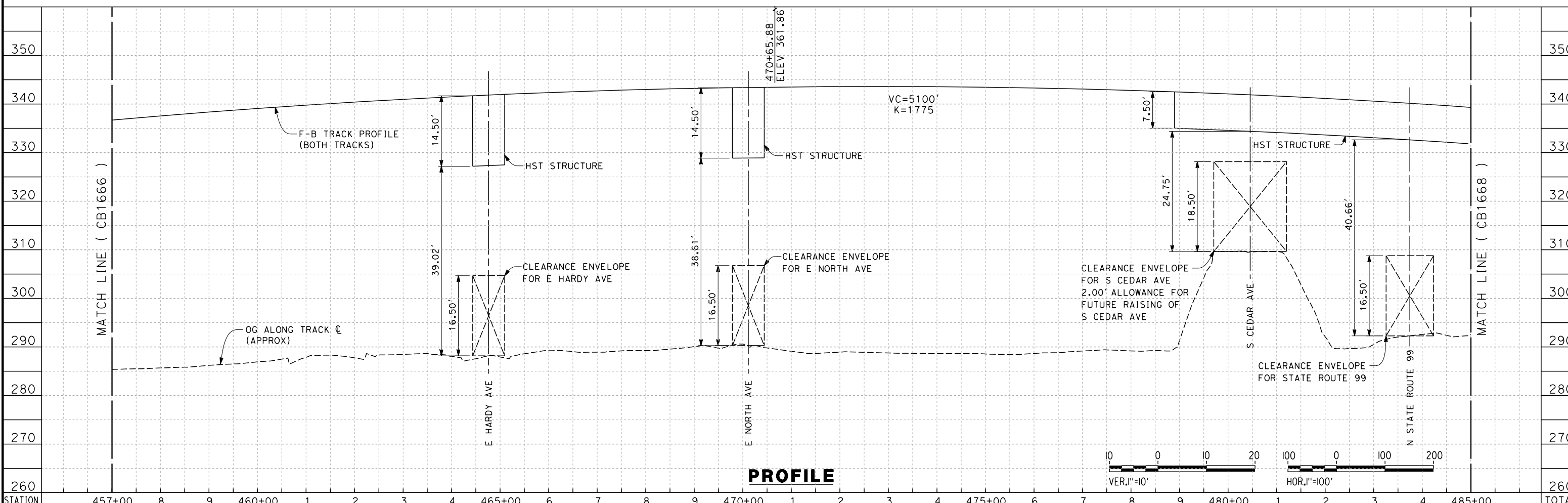
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
STA. 429+00 TO 457+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1666
SCALE
AS SHOWN
SHEET NO.
11 OF 24

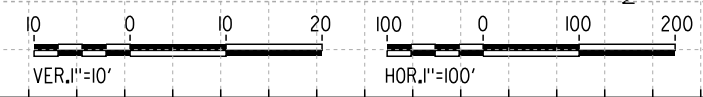


CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
1	220	21296.75	6.75	2.34	2500/3000	12747

PLAN



PROFILE



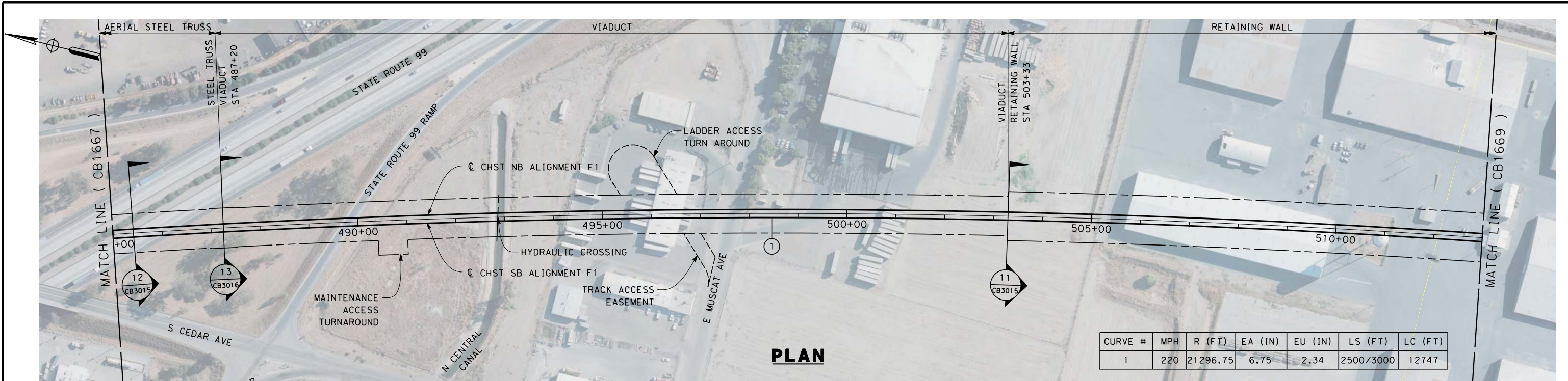
STATION	457+00	8	9	460+00	1	2	3	4	465+00	6	7	8	9	470+00	1	2	3	4	475+00	6	7	8	9	480+00	1	2	3	4	485+00	TOTAL
Exc																														
Emb																														

DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION
DRAWN BY P. TONKIN	
CHECKED BY K. SEYMOUR	
IN CHARGE R. COFFIN	
DATE 12/31/13	

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 FRESNO SUBSECTION
 ALIGNMENT F1
 STA. 457+00 TO 485+00
 PLAN AND PROFILE

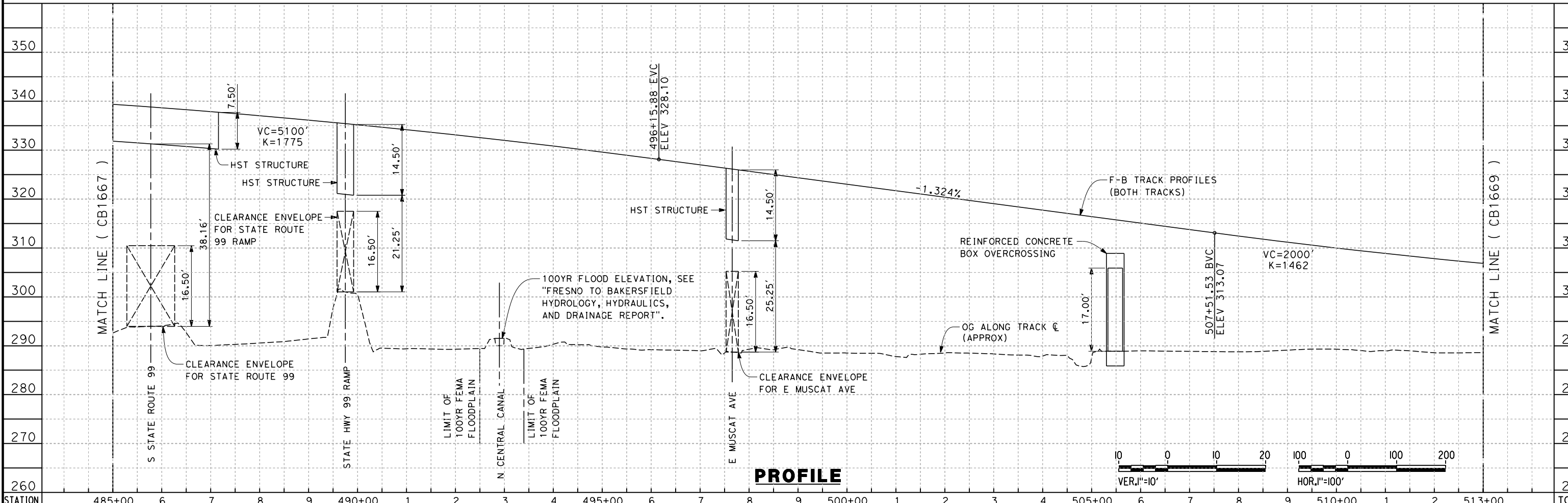
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DRAWING NO. CB1667
SCALE AS SHOWN
SHEET NO. 12 OF 24

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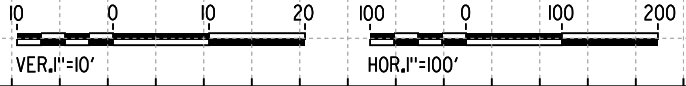


CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
1	220	21296.75	6.75	2.34	2500/3000	12747

PLAN



PROFILE



STATION	485+00	6	7	8	9	490+00	1	2	3	4	495+00	6	7	8	9	500+00	1	2	3	4	505+00	6	7	8	9	510+00	1	2	513+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

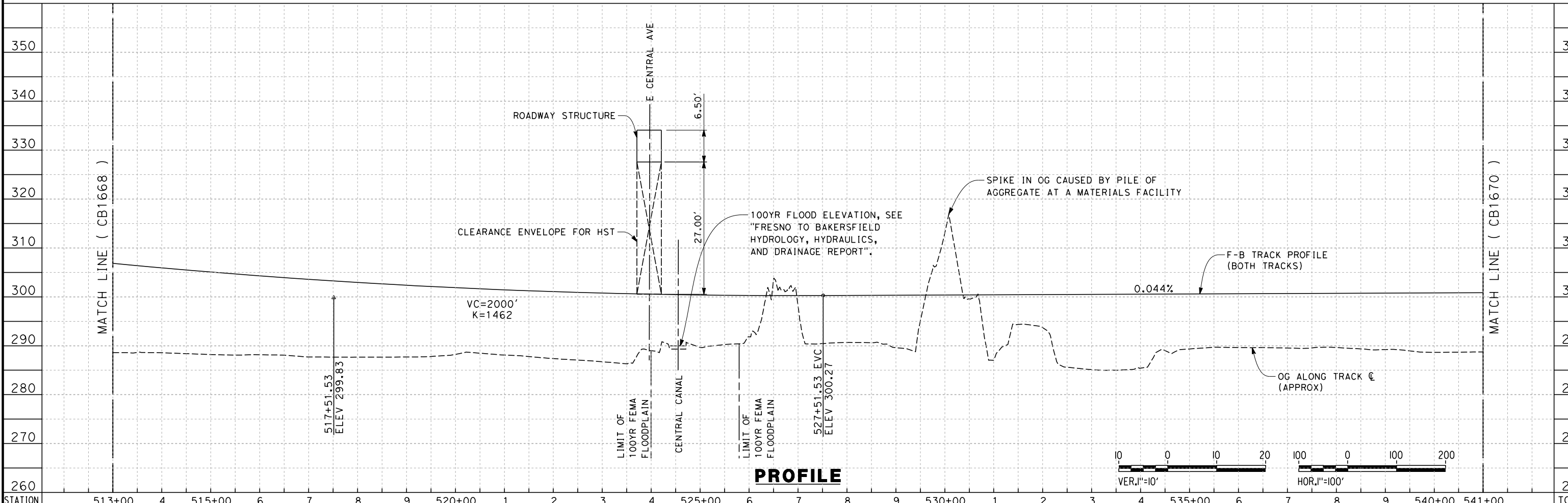
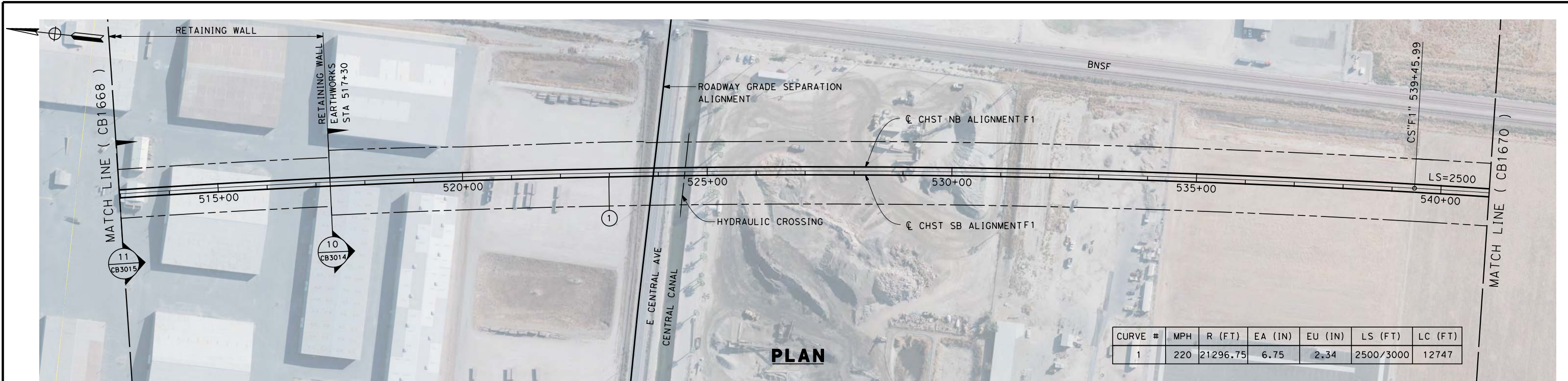
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
STA. 485+00 TO 513+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1668
SCALE
AS SHOWN
SHEET NO.
13 OF 24

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STATION	513+00	4	515+00	6	7	8	9	520+00	1	2	3	4	525+00	6	7	8	9	530+00	1	2	3	4	535+00	6	7	8	9	540+00	541+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

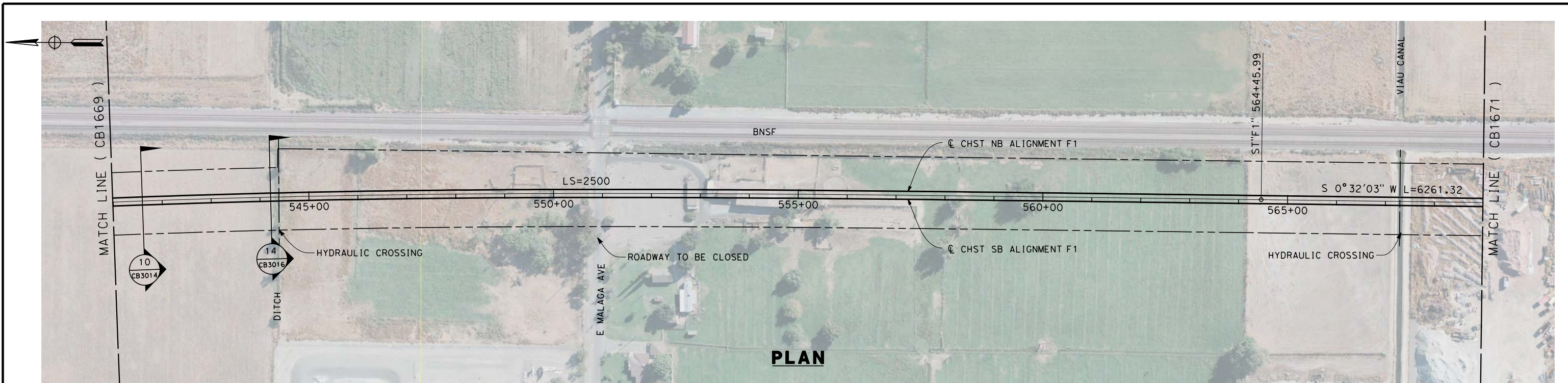


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
STA. 513+00 TO 541+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1669
SCALE
AS SHOWN
SHEET NO.
14 OF 24

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PLAN



PROFILE

STATION	541+00	2	3	4	545+00	6	7	8	9	550+00	1	2	3	4	555+00	6	7	8	9	560+00	1	2	3	4	565+00	6	7	8	569+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

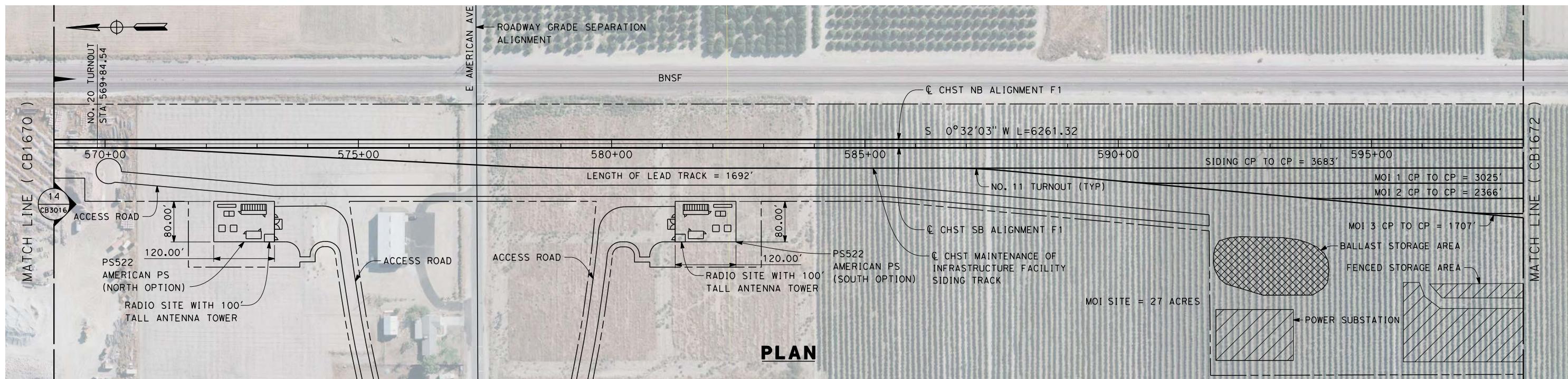
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**NOT FOR
CONSTRUCTION**

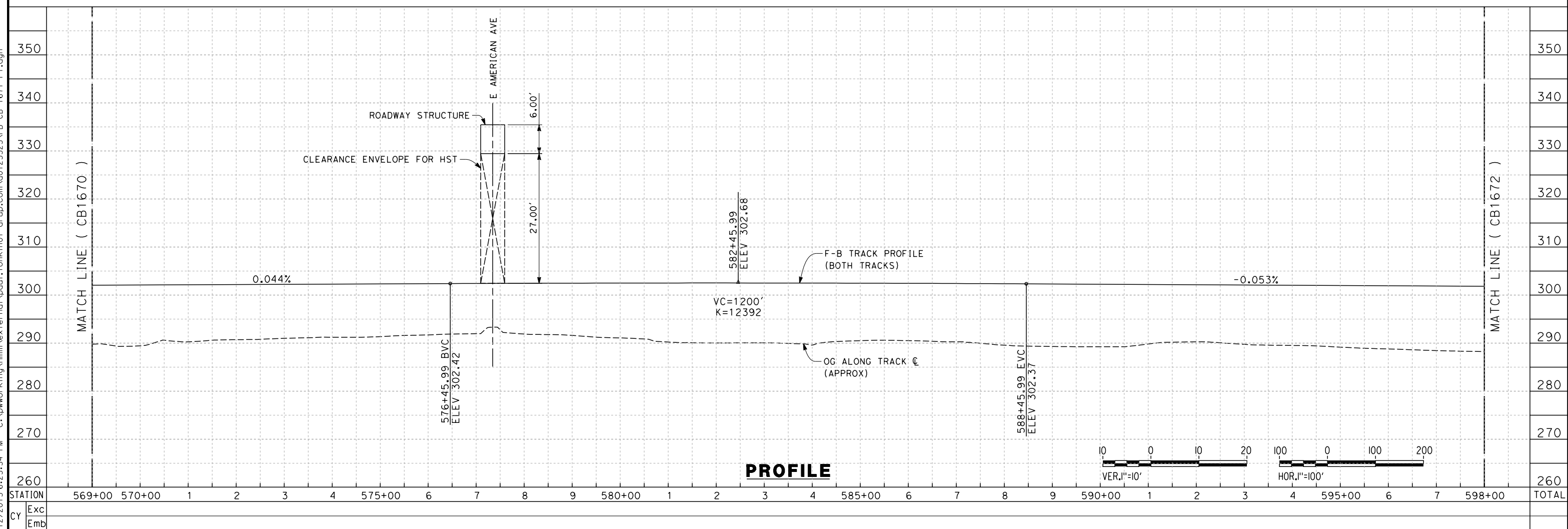


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
STA. 541+00 TO 569+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1670
SCALE
AS SHOWN
SHEET NO.
15 OF 24



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

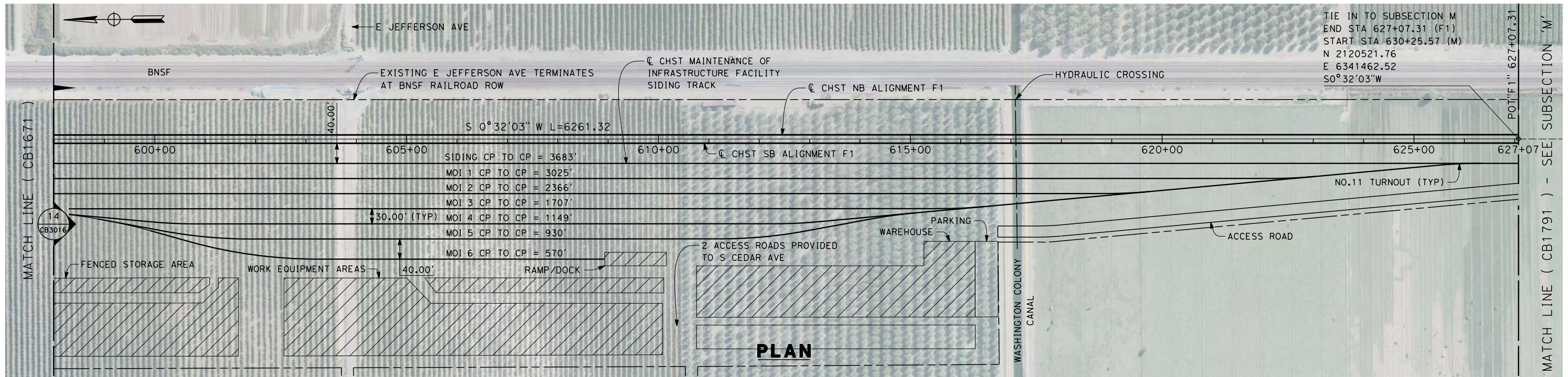
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
STA. 569+00 TO 598+00
PLAN AND PROFILE

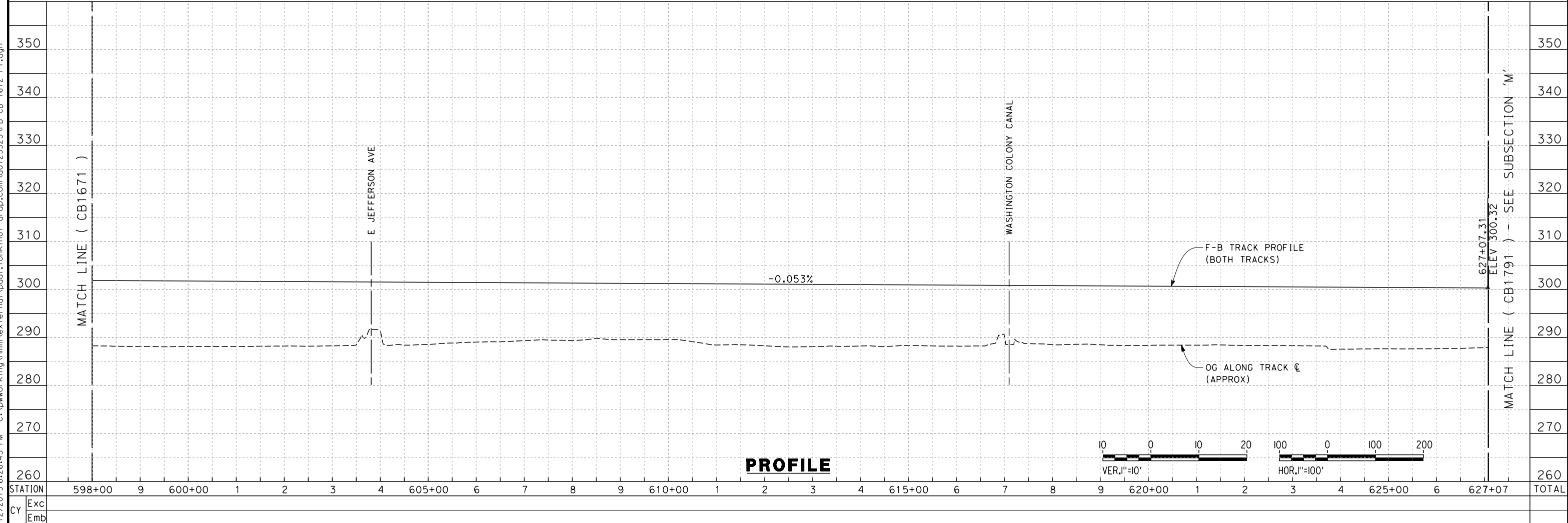
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HSR 06-0003
DRAWING NO.
CB1671
SCALE
AS SHOWN
SHEET NO.
16 OF 24

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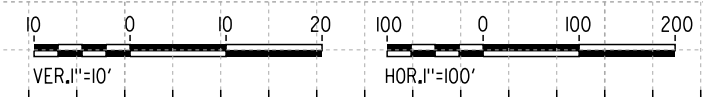


TIE IN TO SUBSECTION M
 END STA 627+07.31 (F1)
 START STA 630+25.57 (M)
 N 2120521.76
 E 6341462.52
 S0°32'03"W

PLAN



PROFILE



12/12/2013 6:26:43 PM c:\pwworking\hmm\external\paul.tonkin\01-arup.com\d0125323\FB-CB-1672-F1.dgn paul.tonkin

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
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P. TONKIN
 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**
**NOT FOR
 CONSTRUCTION**

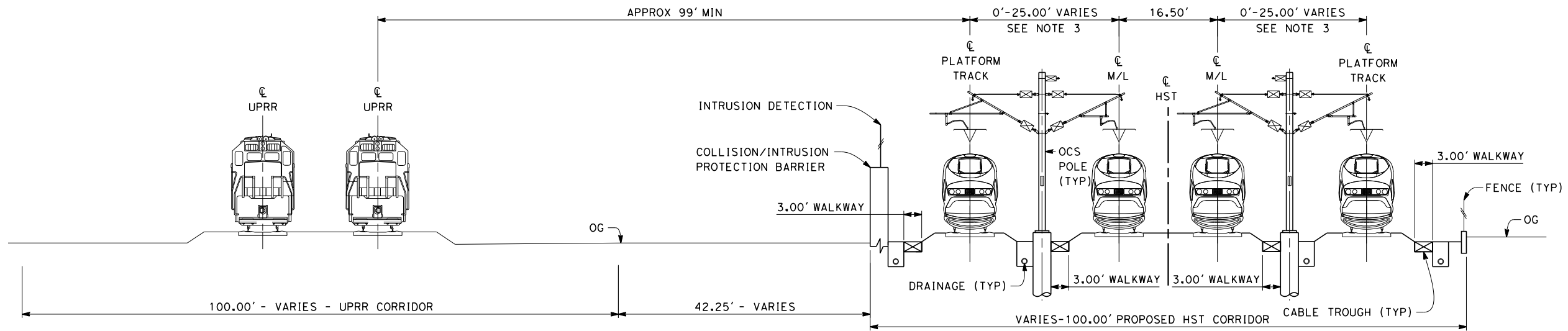


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
 ALIGNMENT F1
 STA. 598+00 TO 627+07
 PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB1672
 SCALE
AS SHOWN
 SHEET NO.
17 OF 24

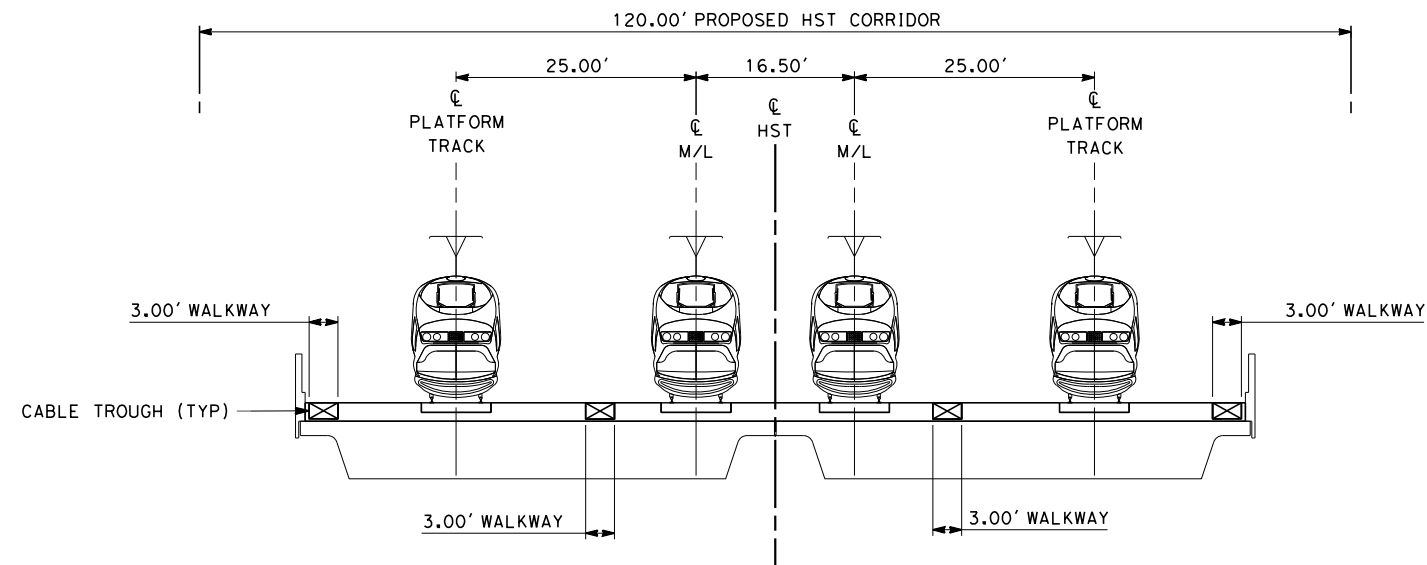
NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
3. DISTANCE BETWEEN TWO TRACKS VARIES FROM 0-25.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.



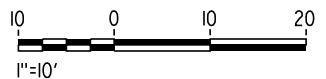
SECTION 1

4 TRACK - AT GRADE STATION APPROACH
 STA 257+25 THROUGH STA 278+93
 STA 279+77 THROUGH STA 280+20
 STA 294+30 THROUGH STA 295+05
 STA 313+25 THROUGH STA 317+24



SECTION 2

4 TRACK - AT GRADE STATION APPROACH OVER HIGHWAY
 STA 278+93 THROUGH STA 279+77



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K. SEYMOUR
 IN CHARGE
R. COFFIN
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12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

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 CONSTRUCTION**

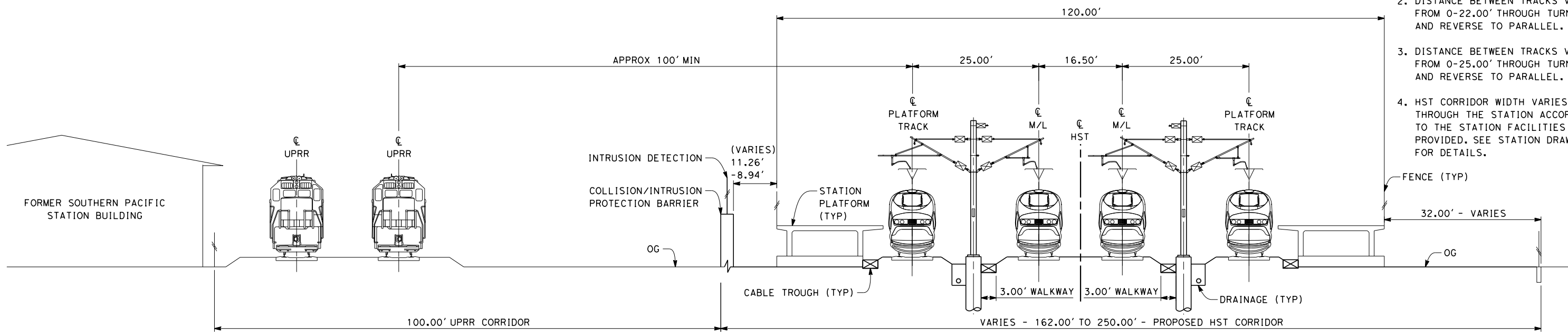


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
 ALIGNMENT F1
 TYPICAL SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB3010
 SCALE
AS SHOWN
 SHEET NO.
18 OF 24

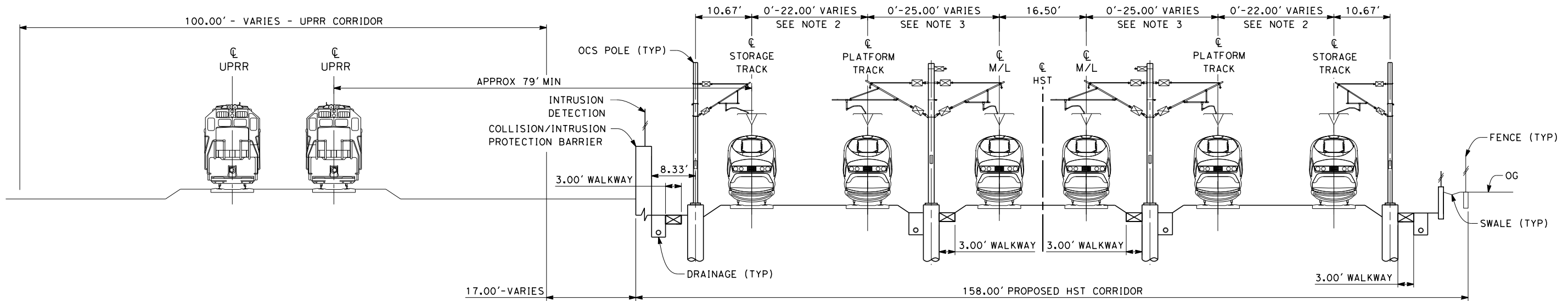
NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. DISTANCE BETWEEN TRACKS VARIES FROM 0'-22.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.
3. DISTANCE BETWEEN TRACKS VARIES FROM 0'-25.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.
4. HST CORRIDOR WIDTH VARIES THROUGH THE STATION ACCORDING TO THE STATION FACILITIES PROVIDED. SEE STATION DRAWINGS FOR DETAILS.



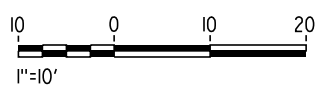
SECTION 3

4 TRACK - AT GRADE STATION PLATFORMS
STA 280+20 THROUGH STA 294+30



SECTION 4

6 TRACK - AT GRADE STORAGE TRACKS
STA 295+05 THROUGH STA 313+25



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DESIGN SUBMISSION**

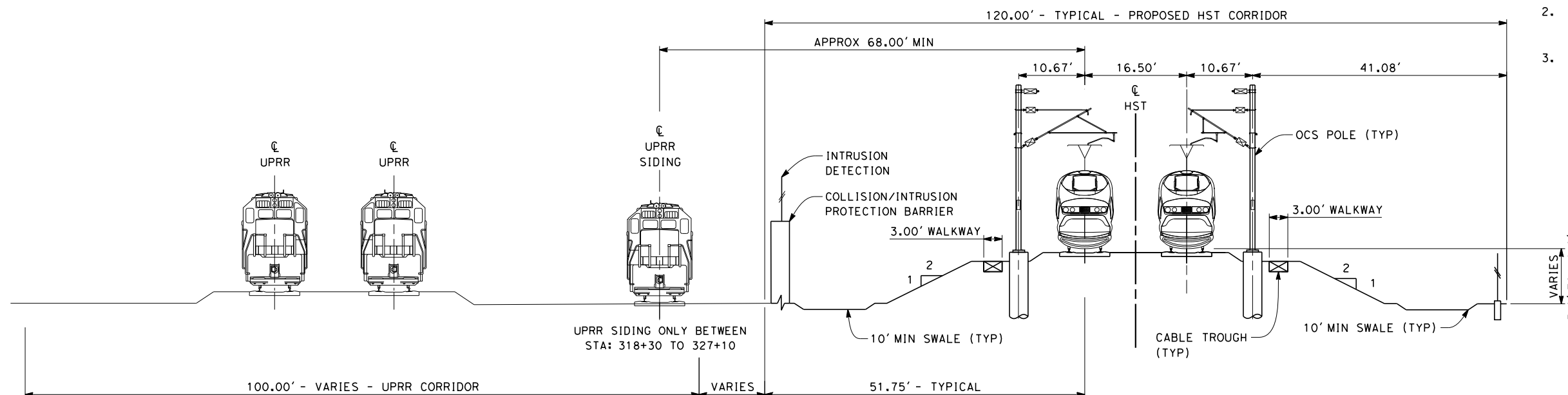
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CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
TYPICAL SECTIONS

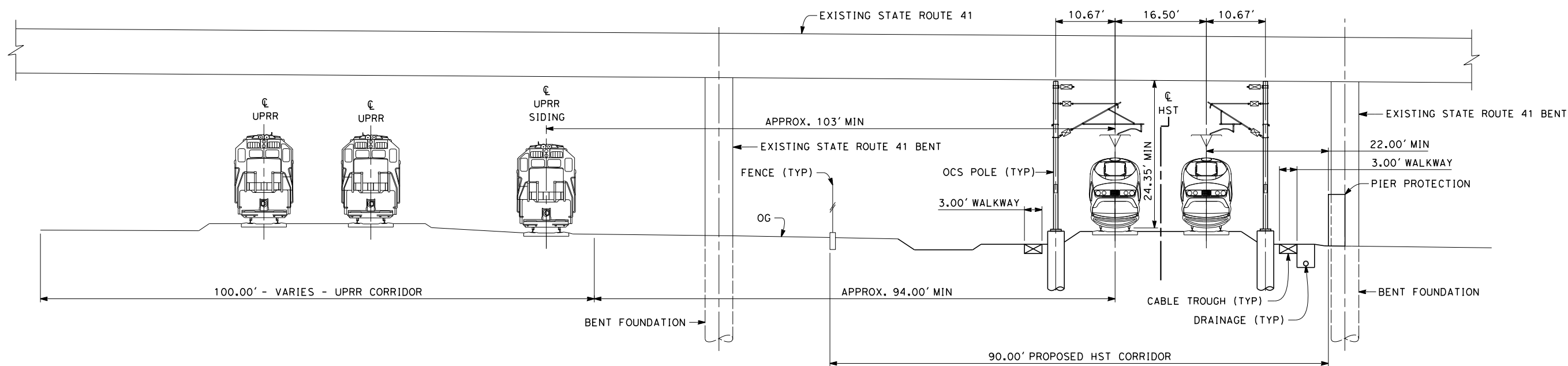
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB3011
SCALE
AS SHOWN
SHEET NO.
19 OF 24

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
 3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES



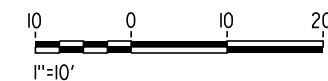
SECTION 5

TWIN TRACK - ADJACENT TO TWIN TRACK
 STA 317+24 THROUGH STA 324+50
 STA 326+30 THROUGH STA 356+65



SECTION 6

TWIN TRACK - AT GRADE UNDER SR-41
 STA 324+50 THROUGH STA 326+30



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A. POLING
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P. TONKIN
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K. SEYMOUR
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R. COFFIN
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12/31/13

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 DESIGN SUBMISSION**

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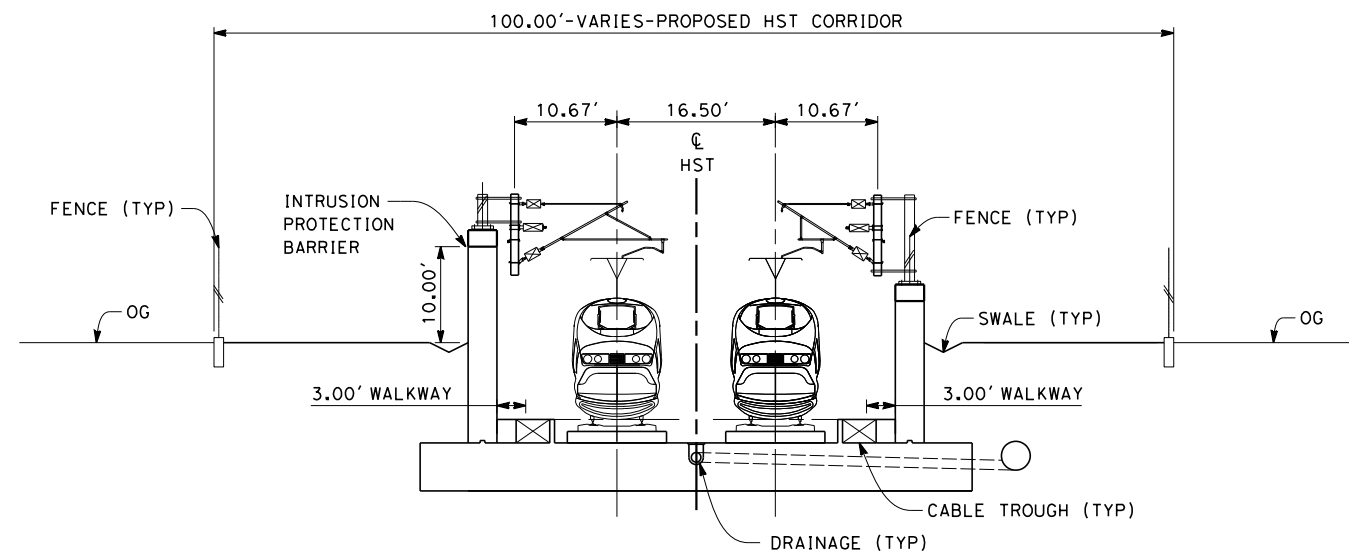


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
 ALIGNMENT F1
 TYPICAL SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB3012
 SCALE
AS SHOWN
 SHEET NO.
20 OF 24

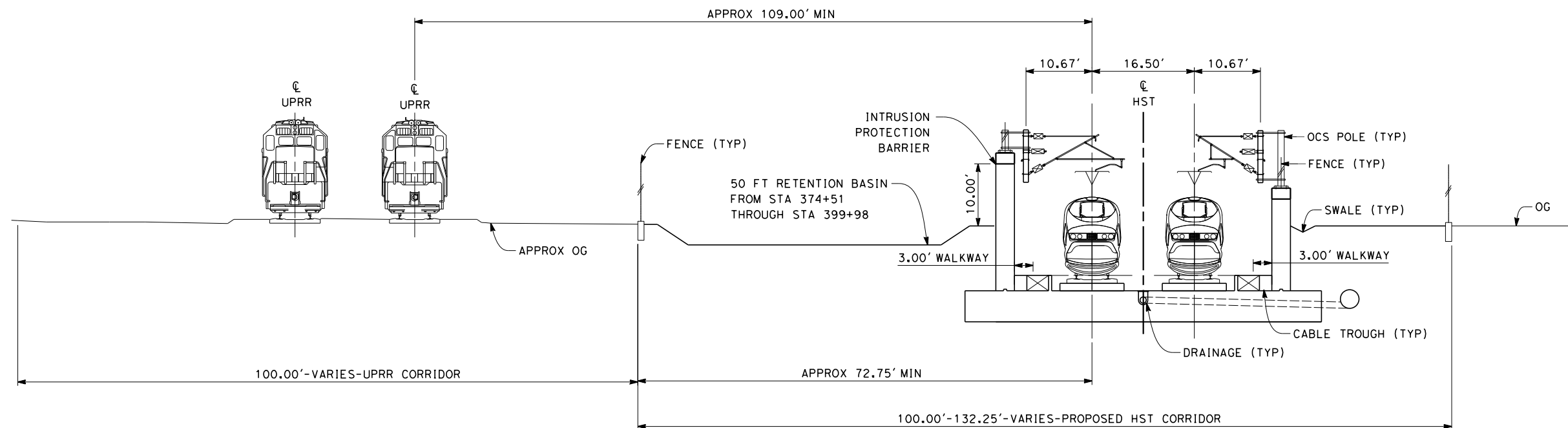
NOTES:

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2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES



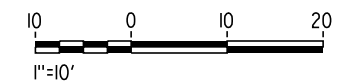
SECTION 7

TWIN TRACK - TRENCH
 STA 356+65 THROUGH STA 373+75
 STA 400+75 THROUGH STA 408+00
 STA 409+50 THROUGH STA 424+25



SECTION 8

TWIN TRACK - TRENCH ADJACENT TO UPRR
 STA 373+50 THROUGH STA 400+75



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 A. POLING
 DRAWN BY
 P. TONKIN
 CHECKED BY
 K. SEYMOUR
 IN CHARGE
 R. COFFIN
 DATE
 12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

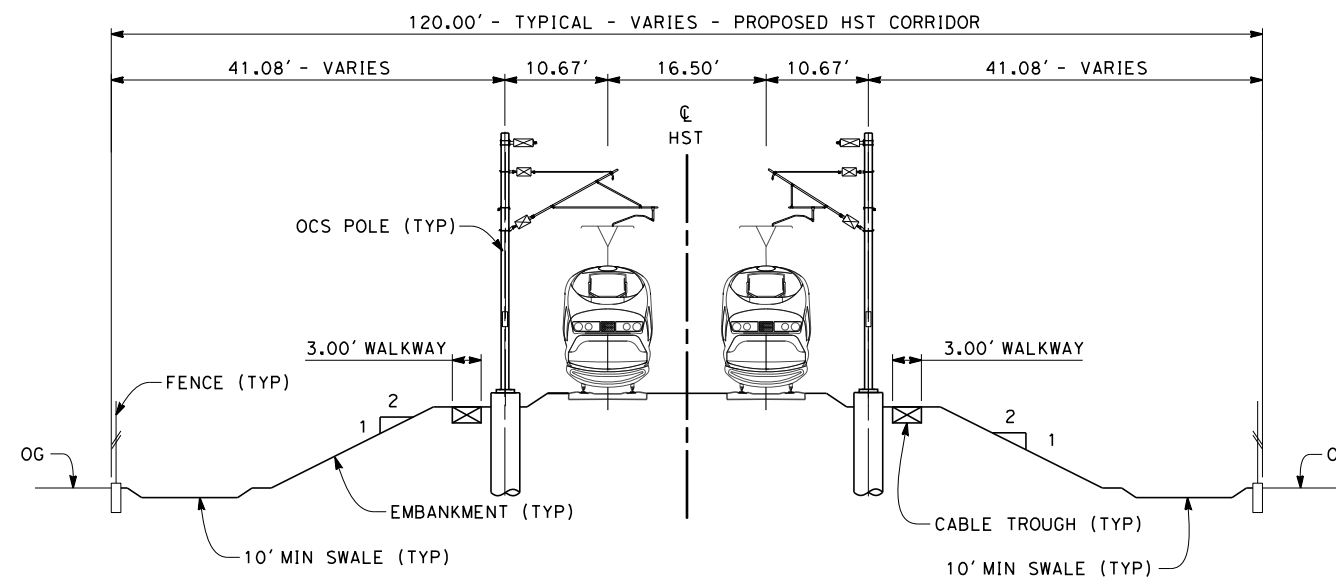
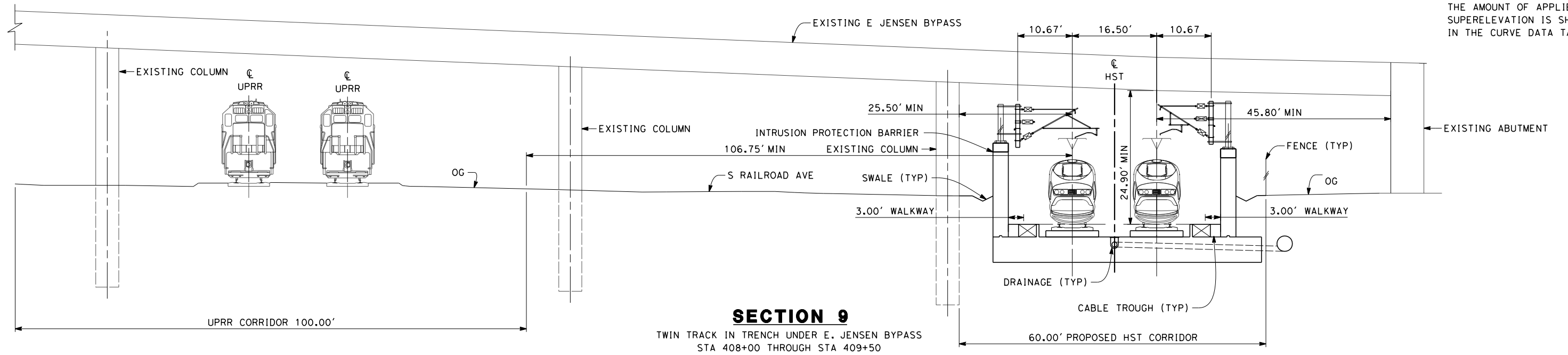
**NOT FOR
 CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 FRESNO SUBSECTION
 ALIGNMENT F1
 TYPICAL SECTIONS

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CB3013
 SCALE
 AS SHOWN
 SHEET NO.
 21 OF 24

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
 3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES



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REV	DATE	BY	CHK	APP	DESCRIPTION

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A. POLING
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

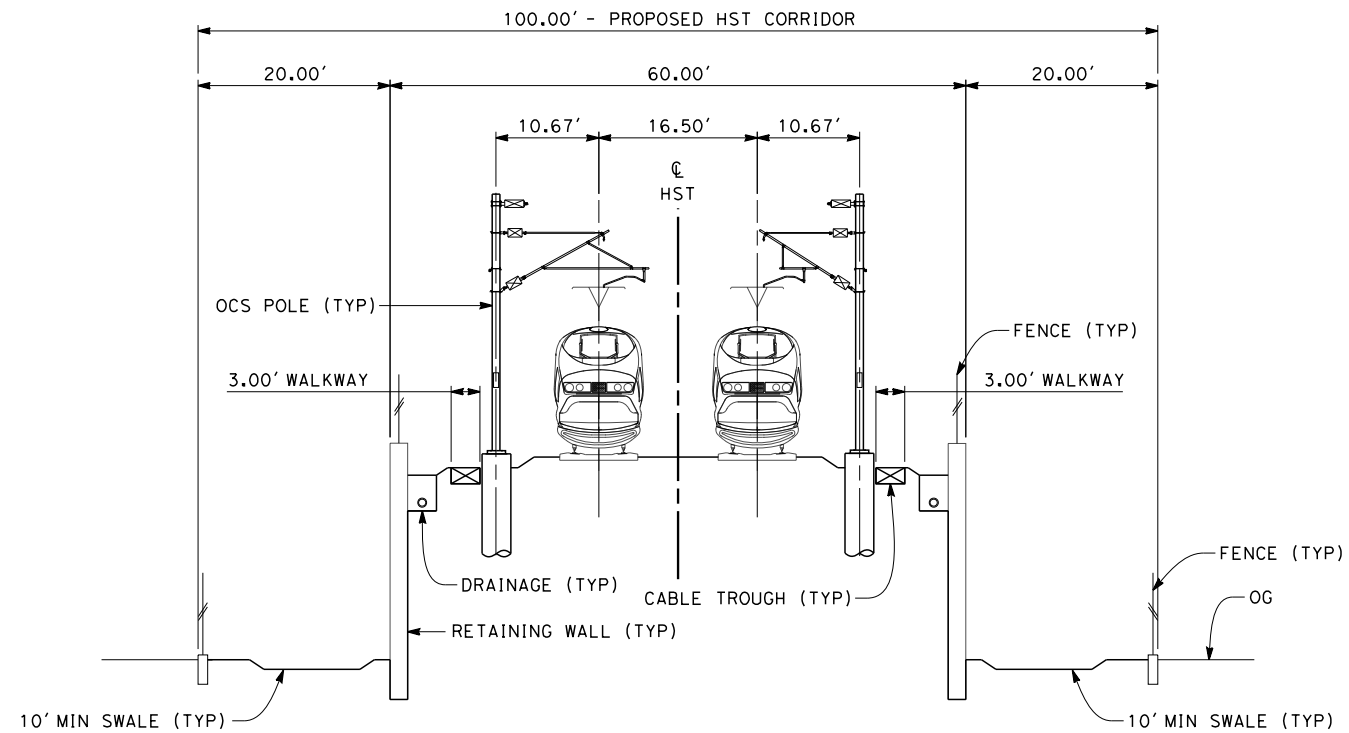


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
TYPICAL SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB3014
SCALE
AS SHOWN
SHEET NO.
22 OF 24

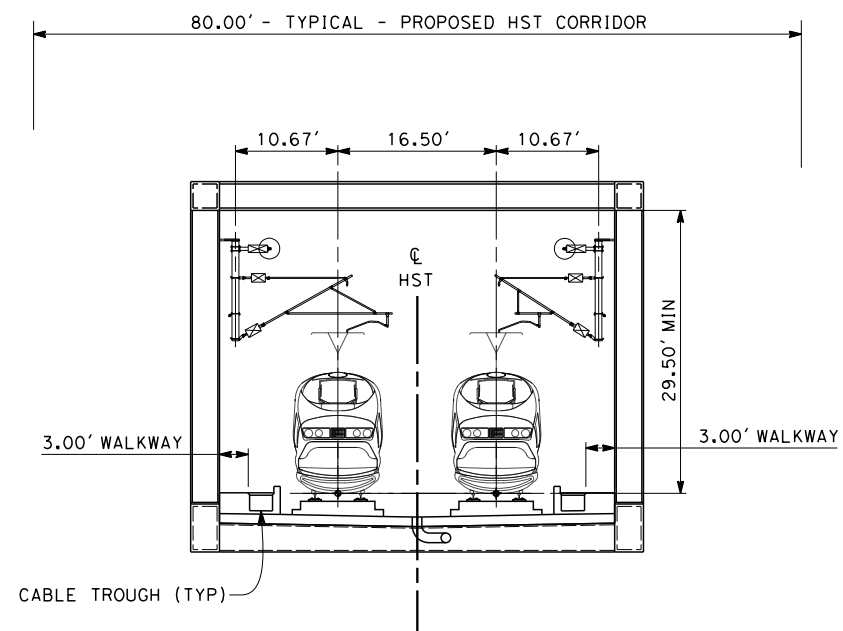
NOTES:

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.



SECTION 11

TWIN TRACK - RETAINED EMBANKMENT OPEN DRAINAGE
 STA 431+76 THROUGH STA 439+40
 STA 503+30 THROUGH STA 517+30



SECTION 12

TWIN TRACK - AERIAL STEEL TRUSS
 STA 439+40 THROUGH STA 442+62
 STA 478+75 THROUGH STA 487+26



\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
 DRAWN BY
P. TONKIN
 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
12/31/13

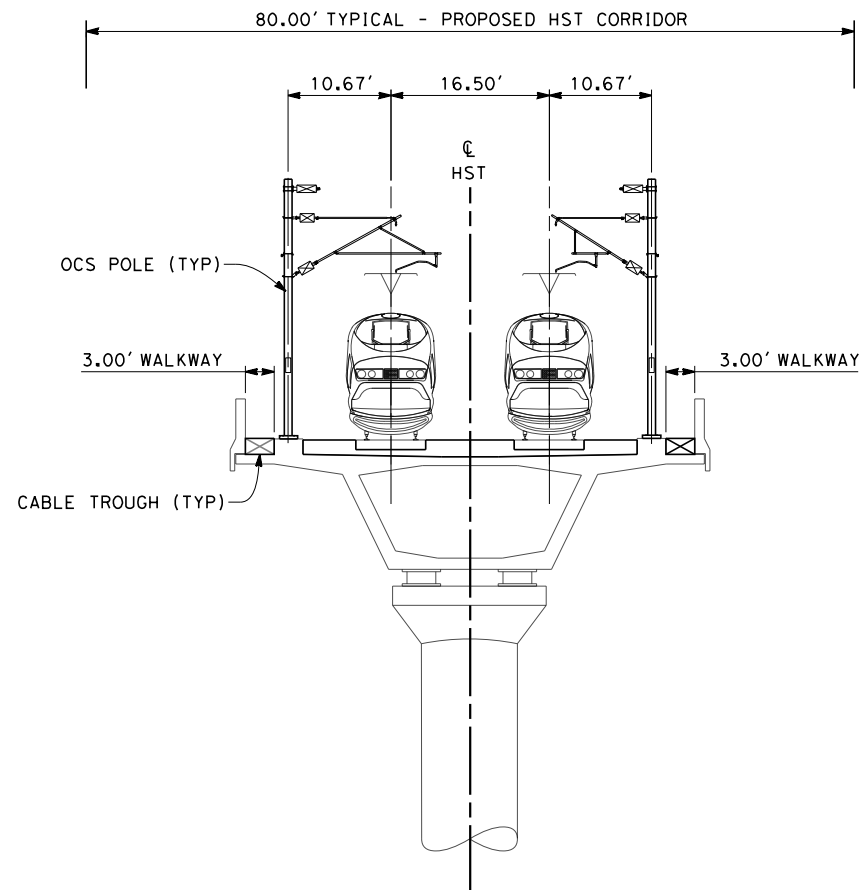
**RECORD SET 15%
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**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
 ALIGNMENT F1
 TYPICAL SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB3015
 SCALE
AS SHOWN
 SHEET NO.
23 OF 24

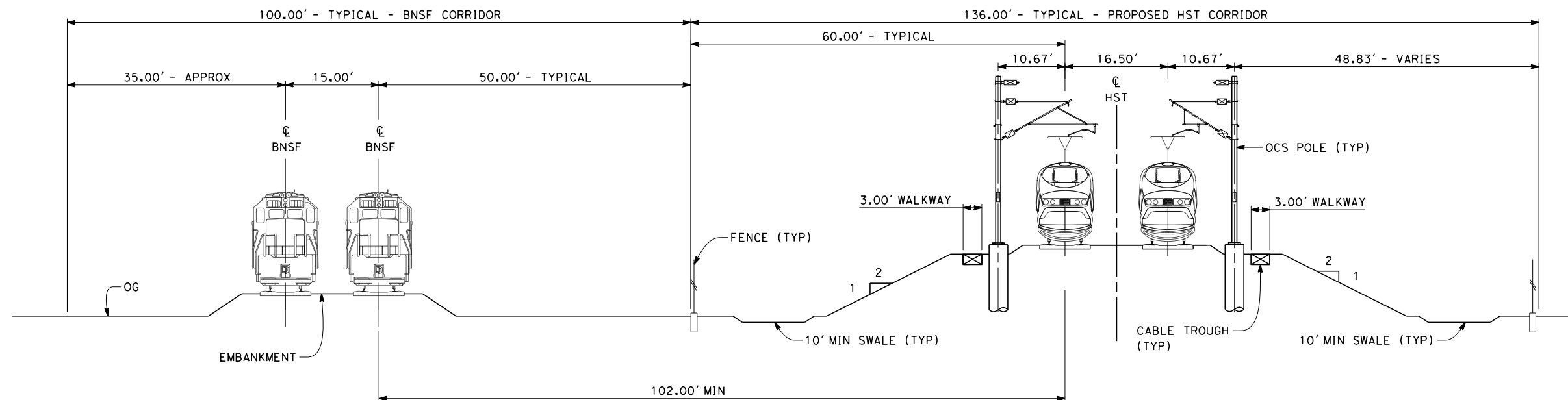


SECTION 13

TWIN TRACK - AERIAL VIADUCT
 STA 442+62 THROUGH STA 478+75
 STA 487+26 THROUGH STA 503+30

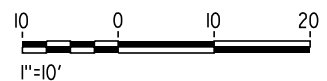
NOTES:

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.



SECTION 14

TWIN TRACK ADJACENT TO SINGLE TRACK BNSF
 STA 544+35 THROUGH STA 627+07



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. POLING
 DRAWN BY
P. TONKIN
 CHECKED BY
K. SEYMOUR
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R. COFFIN
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12/31/13

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 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 FRESNO SUBSECTION
 ALIGNMENT F1
 TYPICAL SECTIONS

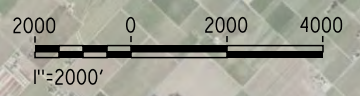
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB3016
 SCALE
AS SHOWN
 SHEET NO.
24 OF 24

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LEGEND

- +—+— EXISTING FREIGHT RAILROAD
- PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LITSAS
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

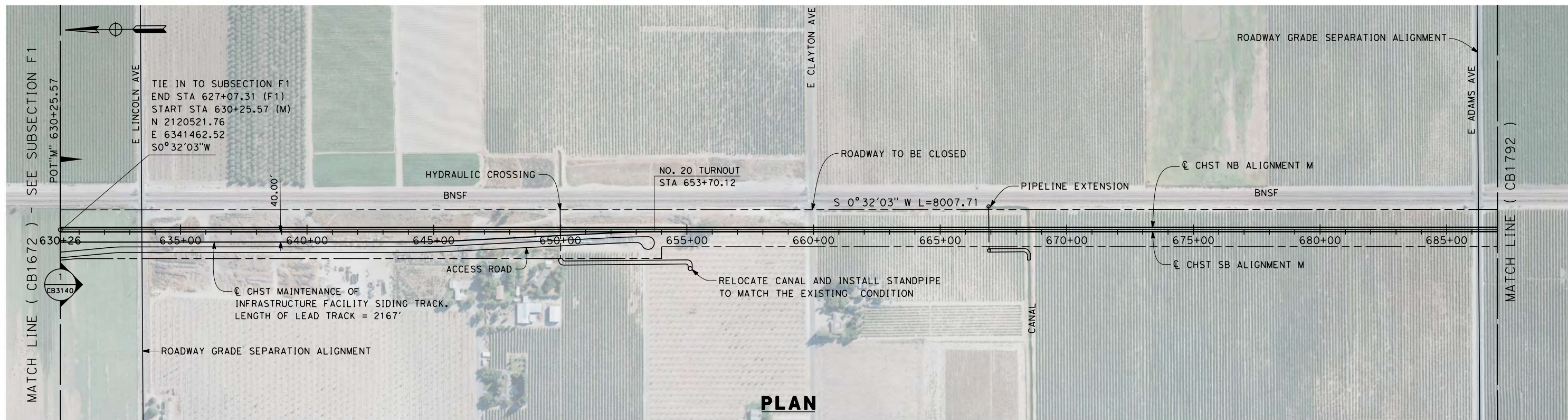
**NOT FOR
CONSTRUCTION**



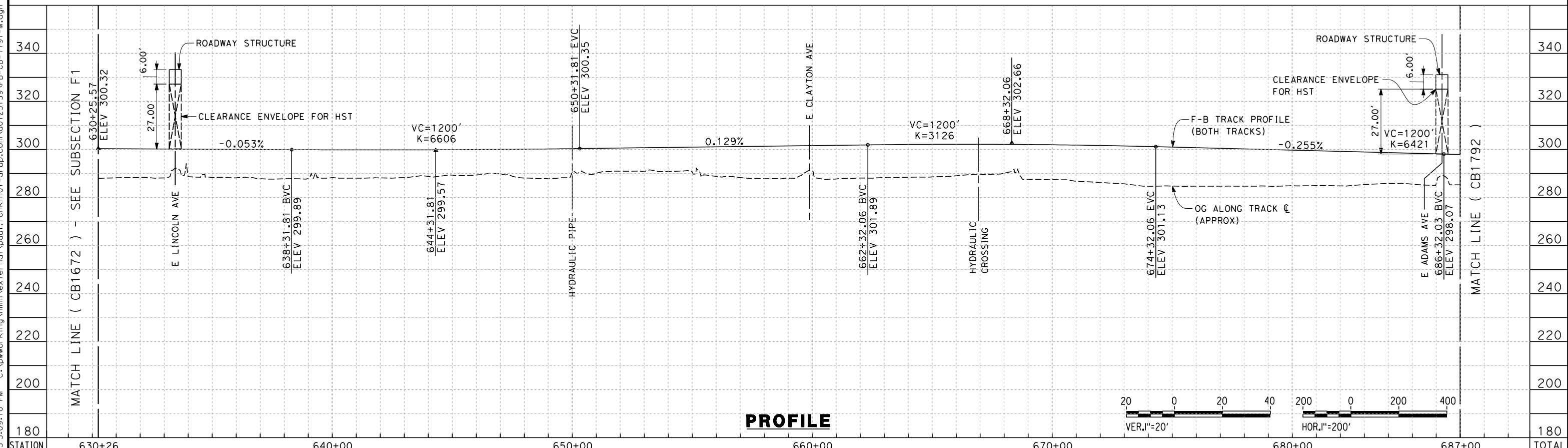
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

MONMOUTH SUBSECTION
ALIGNMENT M
STA. 630+26 TO 1065+07
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1790
SCALE
AS SHOWN
SHEET NO.
1 OF 11



PLAN



PROFILE

STATION	630+26	640+00	650+00	660+00	670+00	680+00	687+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LITSAS
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

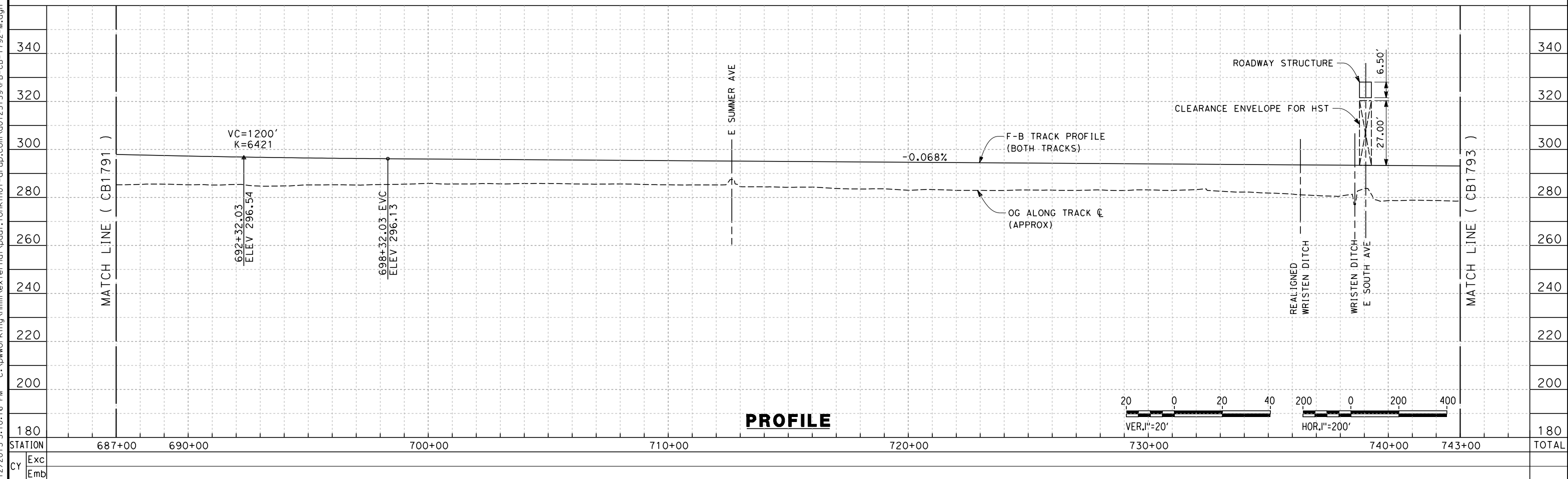
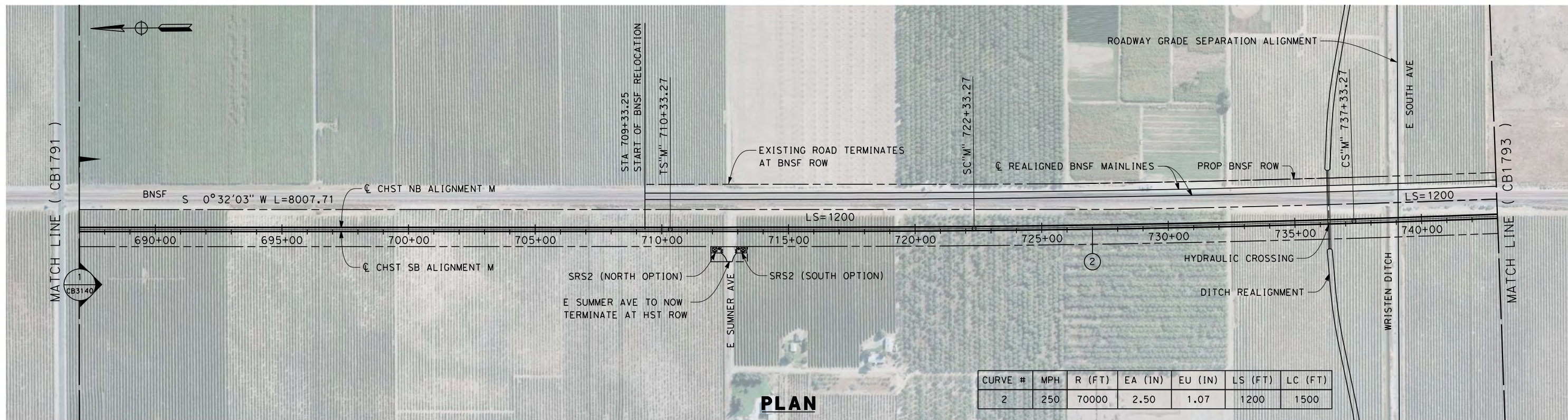
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
MONMOUTH SUBSECTION
ALIGNMENT M
STA. 630+26 TO 687+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1791
SCALE
AS SHOWN
SHEET NO.
2 OF 11

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12/12/2013 3:10:16 PM c:\pwworking\hmm\external\paul.tonkin\01-arup.com\d0125159\FB-CB-1792-M.dgn paul.tonkin

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LITSAS

DRAWN BY
P. TONKIN

CHECKED BY
K. SEYMOUR

IN CHARGE
R. COFFIN

DATE
12/31/13

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DESIGN SUBMISSION**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

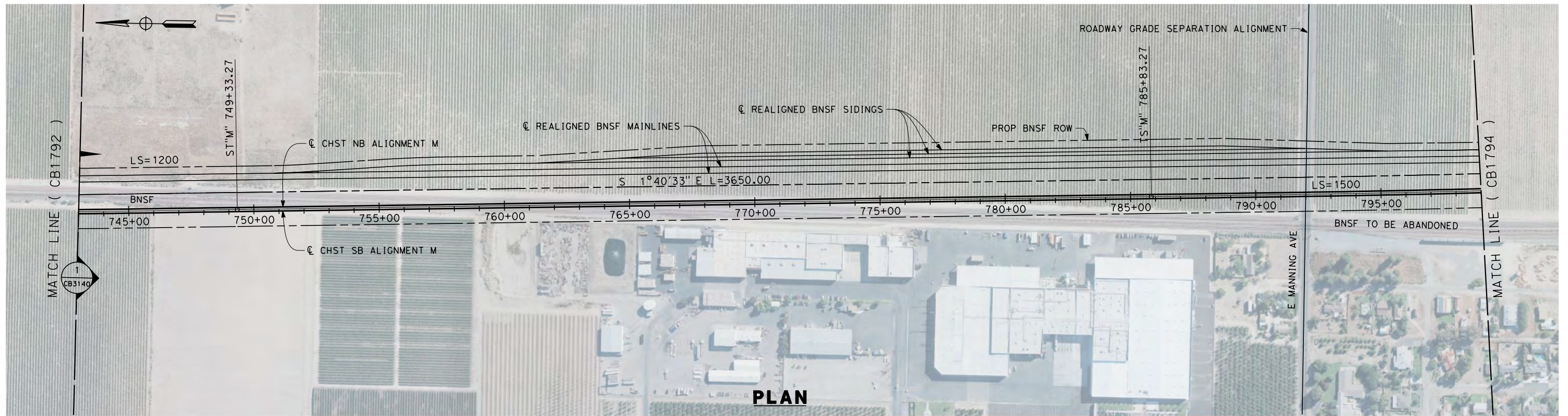
MONMOUTH SUBSECTION
ALIGNMENT M
STA. 687+00 TO 743+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003

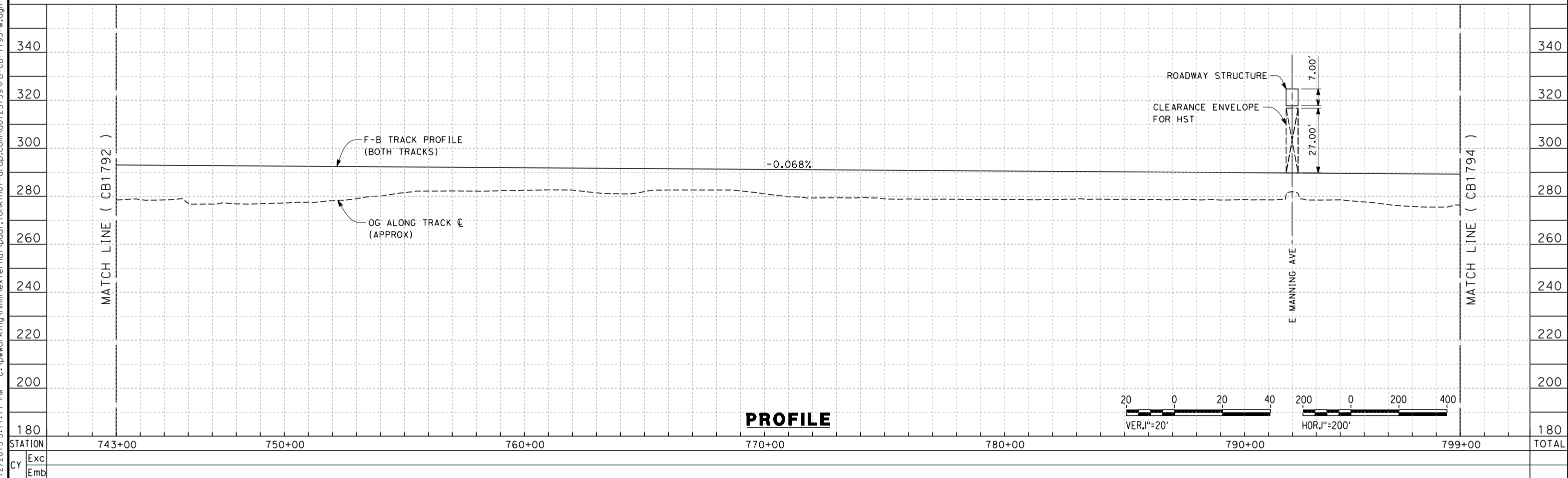
DRAWING NO.
CB1792

SCALE
AS SHOWN

SHEET NO.
3 OF 11



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DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

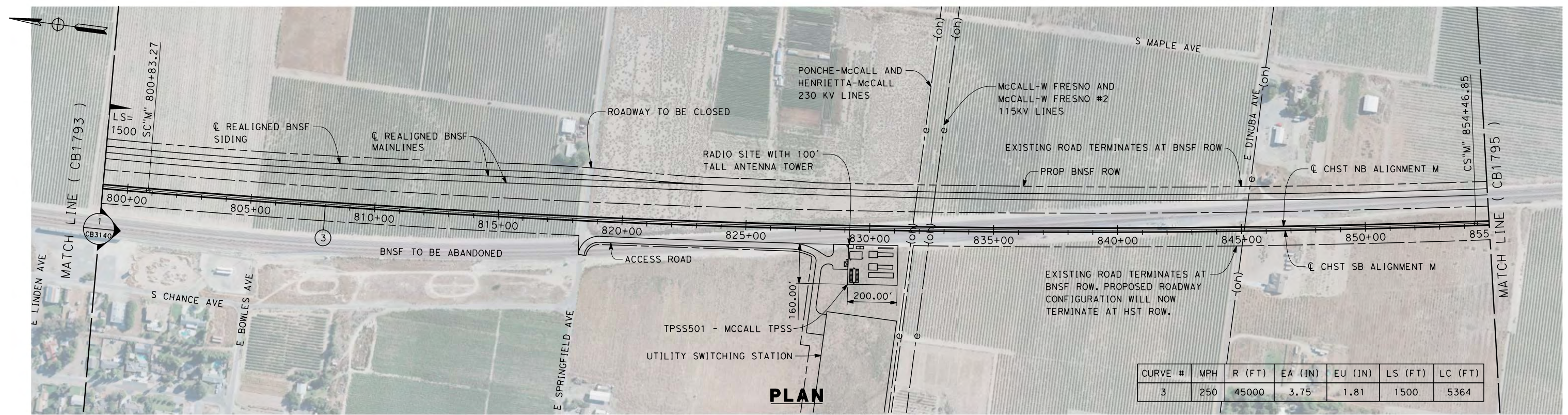
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CONSTRUCTION**



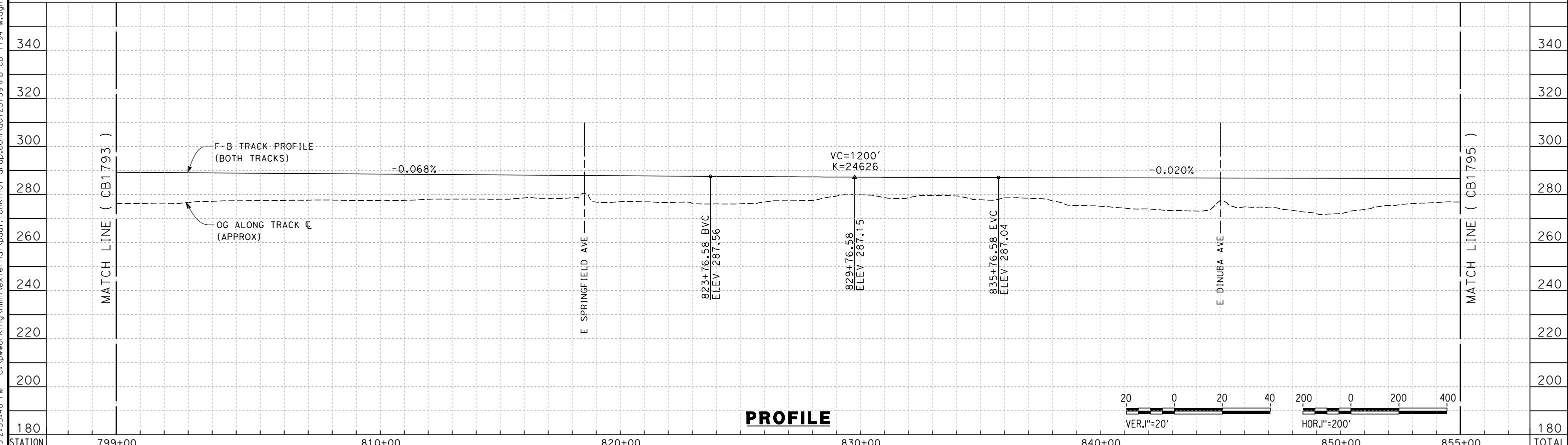
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

MONMOUTH SUBSECTION
ALIGNMENT M
STA. 743+00 TO 799+00
PLAN AND PROFILE

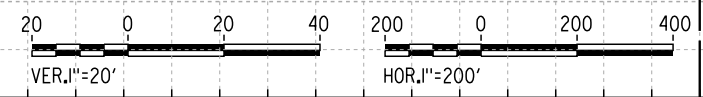
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1793
SCALE
AS SHOWN
SHEET NO.
4 OF 11



PLAN



PROFILE



STATION	799+00	810+00	820+00	830+00	840+00	850+00	855+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LITSAS
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CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

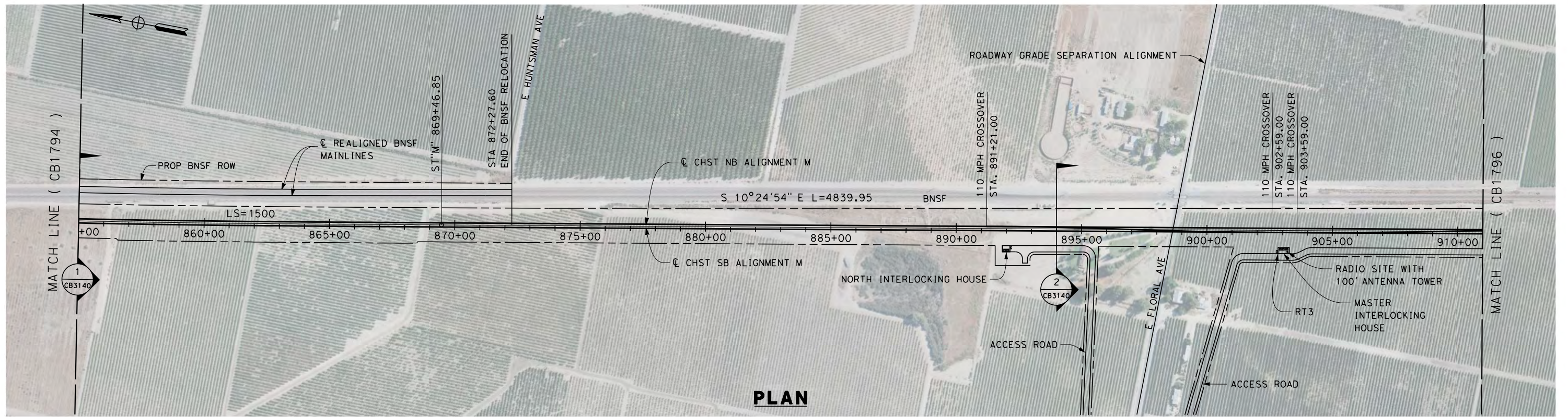
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CONSTRUCTION**



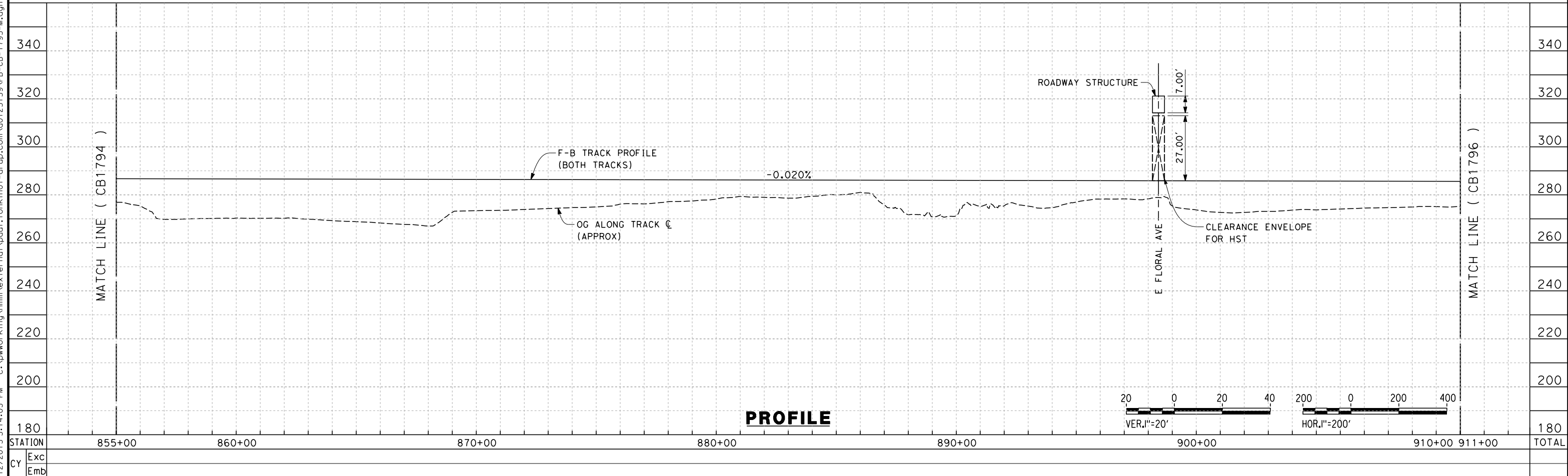
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
MONMOUTH SUBSECTION
ALIGNMENT M
STA. 799+00 TO 855+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1794
SCALE
AS SHOWN
SHEET NO.
5 OF 11

12/12/2013 2:35:48 PM c:\pwworking\hmm\external\paul.tonkin\paul.tonkin01-arup.com\d0125159\FB-CB-1794-M.dgn paul.tonkin



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LITSAS
DRAWN BY
P. TONKIN
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

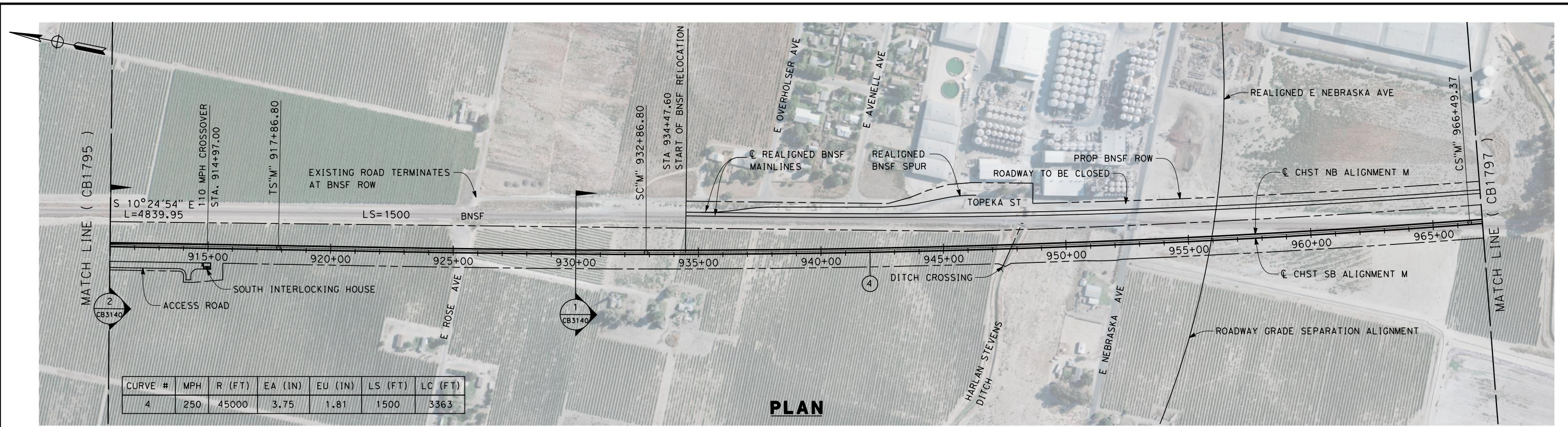
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
MONMOUTH SUBSECTION
ALIGNMENT M
STA. 855+00 TO 911+00
PLAN AND PROFILE

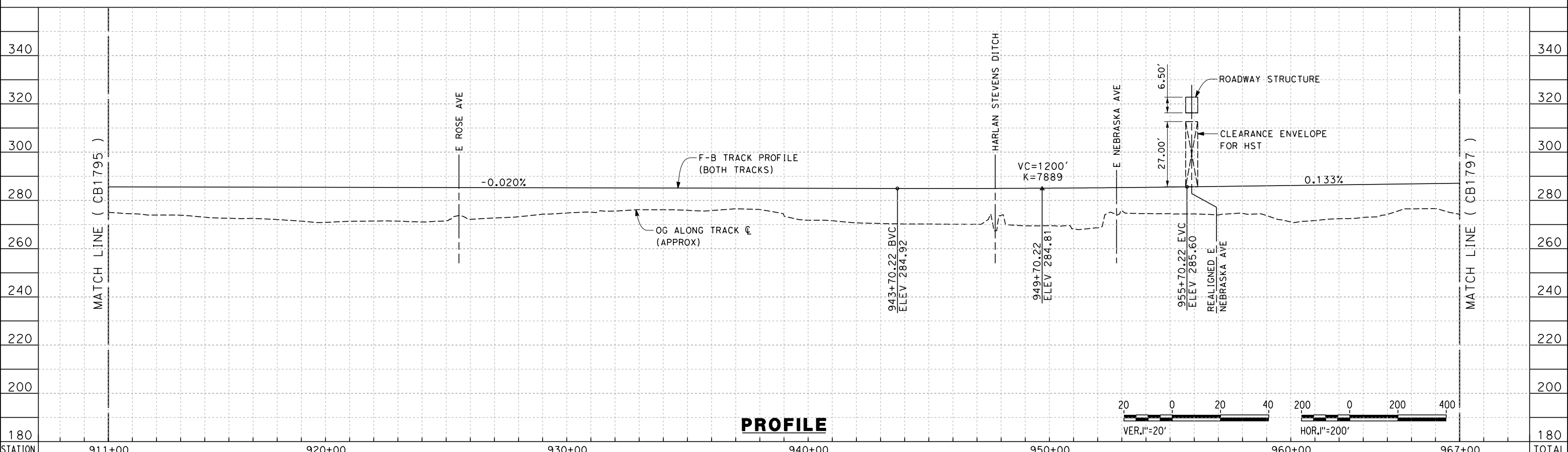
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1795
SCALE
AS SHOWN
SHEET NO.
6 OF 11

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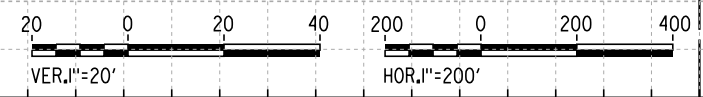


CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
4	250	45000	3.75	1.81	1500	3363

PLAN



PROFILE



c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125159\FB-CB-1796-M.dgn
 3/6/2014 4:35:29 PM
 eron.sudhausen

STATION	911+00	920+00	930+00	940+00	950+00	960+00	967+00	TOTAL
CY Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LITSAS
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 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
03/19/13

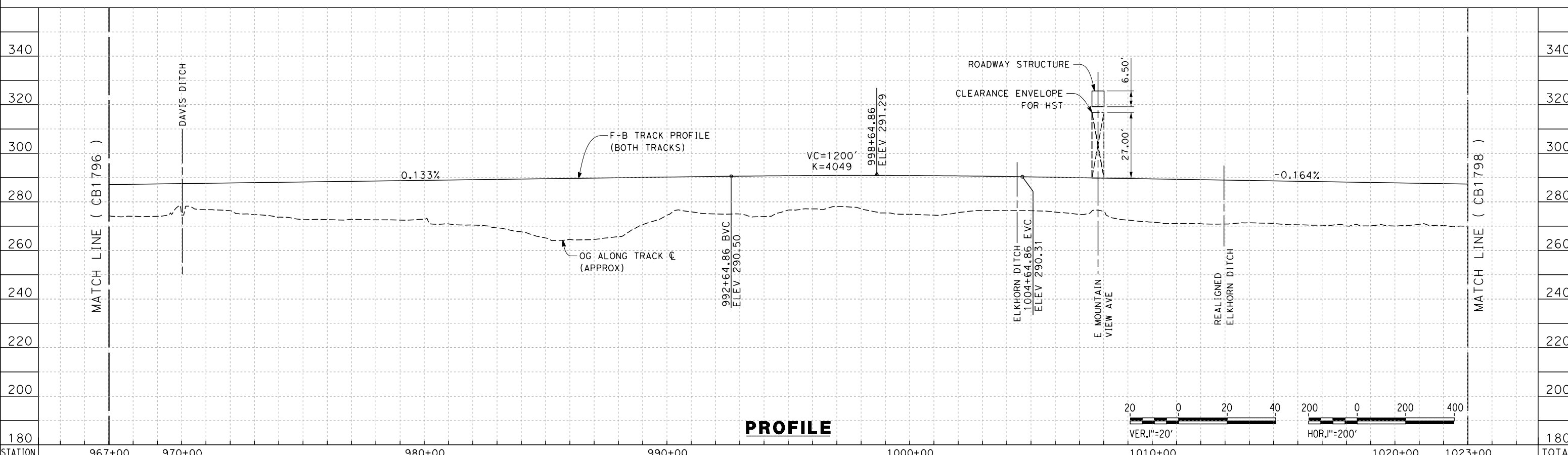
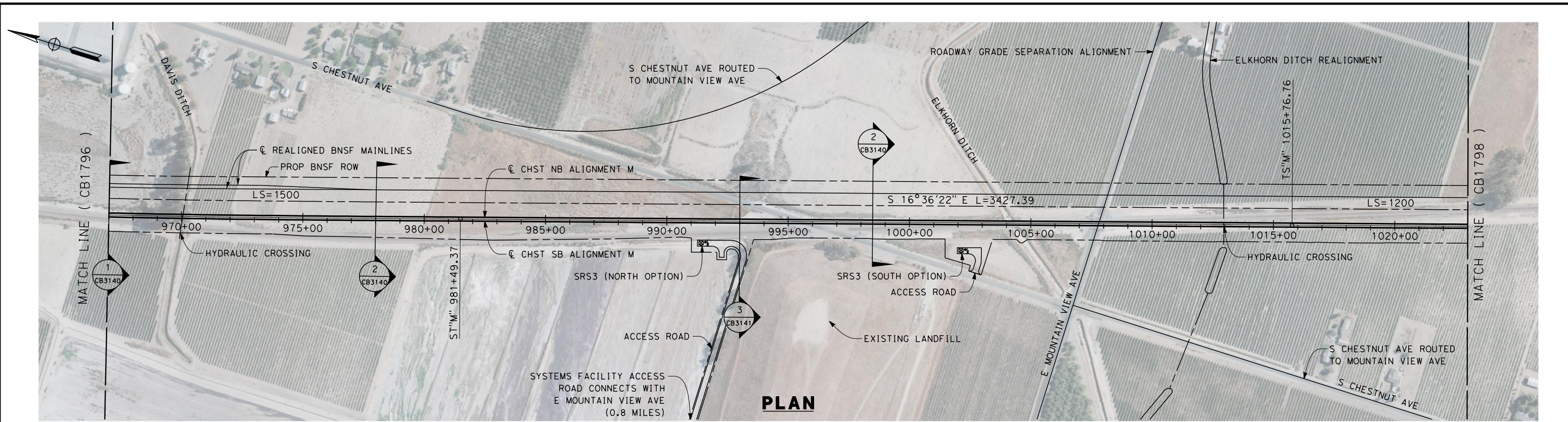
**RECORD SET 15%
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 MONMOUTH SUBSECTION
 ALIGNMENT M
 STA. 911+00 TO 967+00
 PLAN AND PROFILE

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CB1796
 SCALE
 AS SHOWN
 SHEET NO.
 7 OF 11



STATION	967+00	970+00	980+00	990+00	1000+00	1010+00	1020+00	1023+00	TOTAL
Exc									
Emb									

eron_sudhausen 3/10/2014 5:38:12 PM c:\pwworking\hmm\external\eron_sudhausen-arup.com\d0125159\FB-CB-1797-M.dgn

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 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
03/19/13

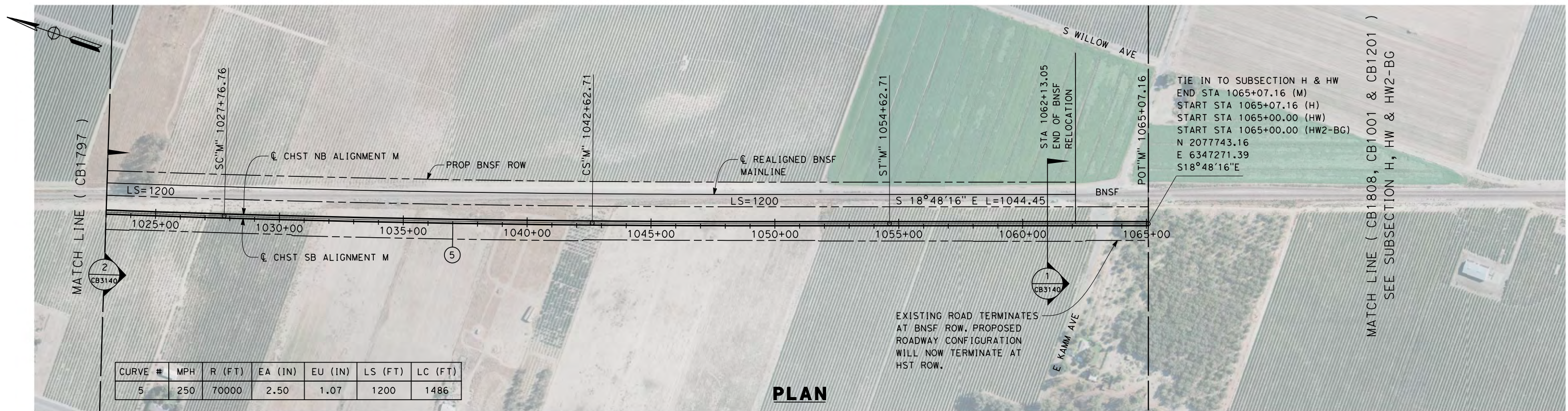
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DESIGN SUBMISSION**

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CONSTRUCTION**

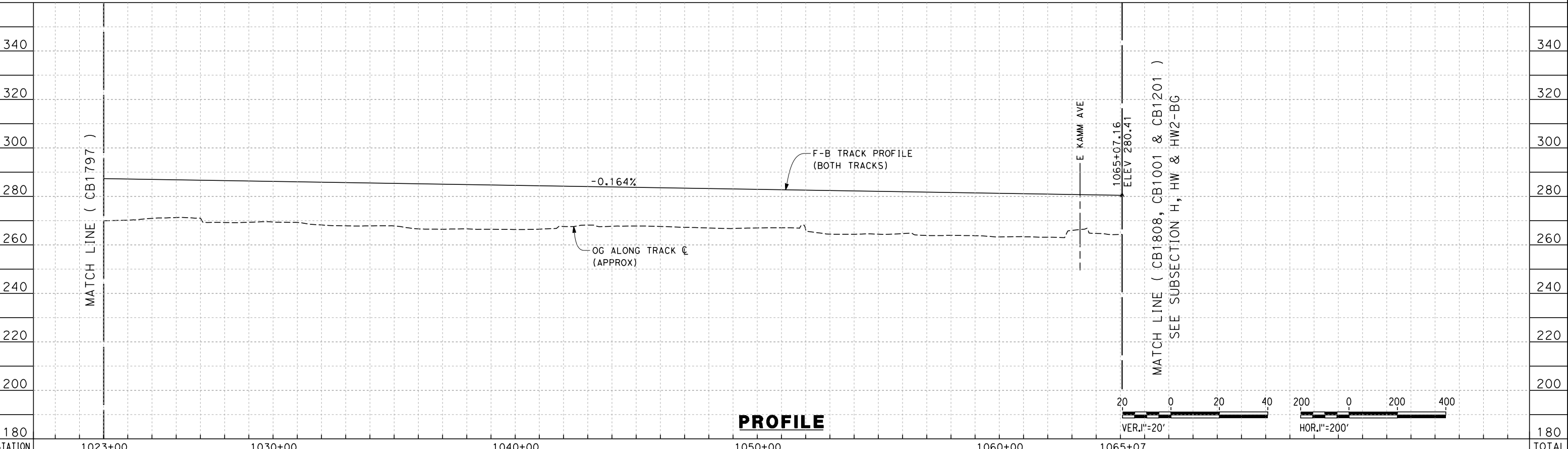


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
 MONMOUTH SUBSECTION
 ALIGNMENT M
 STA. 967+00 TO 1023+00
 PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB1797
 SCALE
AS SHOWN
 SHEET NO.
8 OF 11



PLAN



PROFILE

STATION	1023+00	1030+00	1040+00	1050+00	1060+00	1065+07	TOTAL
Exc							
Emb							

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IN CHARGE
R. COFFIN
DATE
12/31/13

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DESIGN SUBMISSION**

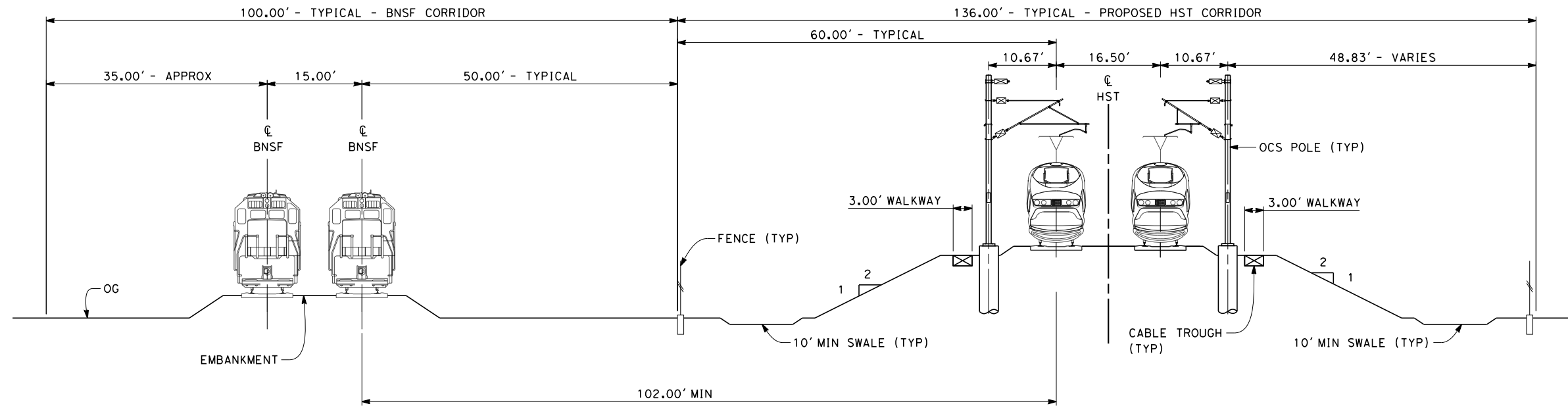
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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
MONMOUTH SUBSECTION
ALIGNMENT M
STA. 1023+00 TO 1065+07
PLAN AND PROFILE

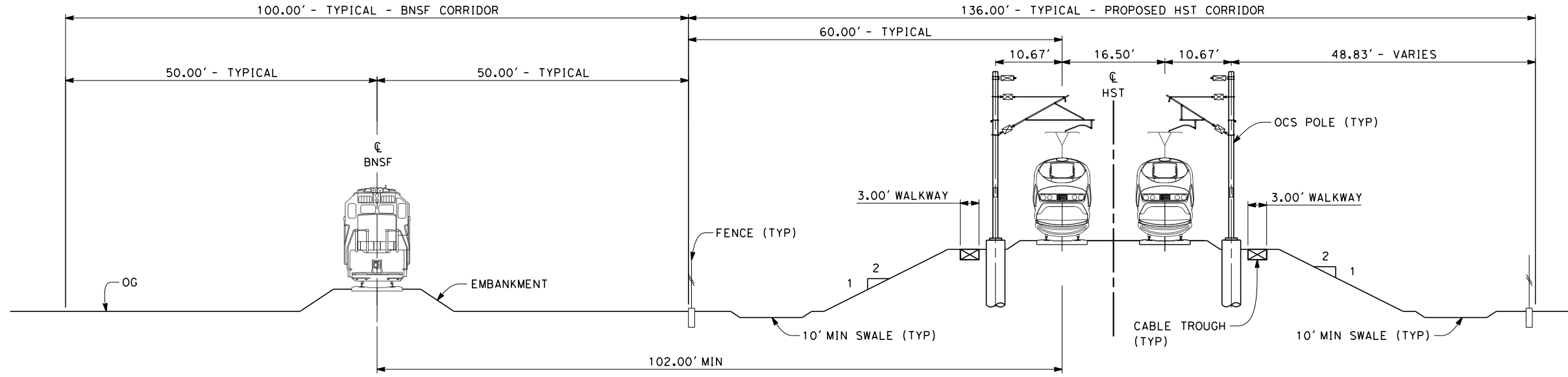
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1798
SCALE
AS SHOWN
SHEET NO.
9 OF 11

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. SUPERELEVATION IS NOT SHOWN IN CROSS SECTIONS. FOR DETAILS OF SUPERELEVATION SEE CURVE TABLES.
 3. FOR EXTENTS OF BNSF REALIGNED TRACKS, SEE PLAN SHEETS.



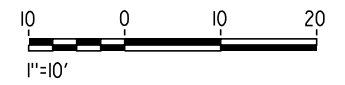
SECTION 1

TWIN TRACK ADJACENT TO BNSF - EMBANKMENT WITH OPEN DRAINAGE
 STA 630+26 THROUGH STA 894+00
 STA 930+00 THROUGH STA 978+00
 STA 1061+00 THROUGH STA 1065+07



SECTION 2

TWIN TRACK ADJACENT TO BNSF - EMBANKMENT WITH OPEN DRAINAGE
 STA 894+00 THROUGH STA 930+00
 STA 978+00 THROUGH STA 993+00
 STA 998+40 THROUGH STA 1061+00



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P. TONKIN
 CHECKED BY
K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

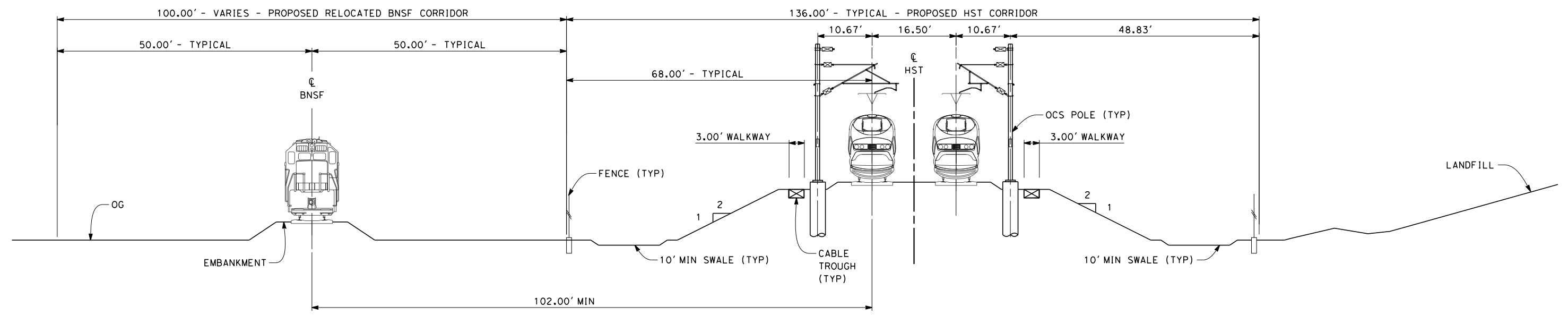
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 MONMOUTH SUBSECTION
 ALIGNMENT M
 TYPICAL SECTIONS

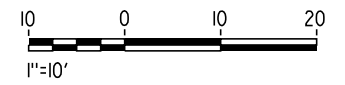
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB3140
 SCALE
AS SHOWN
 SHEET NO.
10 OF 11

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. SUPERELEVATION IS NOT SHOWN IN CROSS SECTIONS. FOR DETAILS OF SUPERELEVATION SEE CURVE TABLES.
 3. FOR EXTENTS OF BNSF REALIGNED TRACKS, SEE PLAN SHEETS.



SECTION 3

TWIN TRACK - BETWEEN LANDFILL AND REALIGNED BNSF - EMBANKMENT WITH OPEN DRAINAGE
 STA 993+00 THROUGH STA 998+40



12/12/2013 3:20:05 PM c:\pwworking\hmm\external\paul.tonkin01-arup.com\d0125159\FB-CB-3141-M.dgn paul.tonkin

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LITSAS
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P. TONKIN
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K. SEYMOUR
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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 DESIGN SUBMISSION**

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 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 MONMOUTH SUBSECTION
 ALIGNMENT M
 TYPICAL SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB3141
 SCALE
AS SHOWN
 SHEET NO.
11 OF 11