

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

Revised Draft EIR /
Supplemental Draft EIS
Fresno to Bakersfield Section

Volume III: Section C – Roadway and Grade Separation Plans Part 1 of 2

July 2012

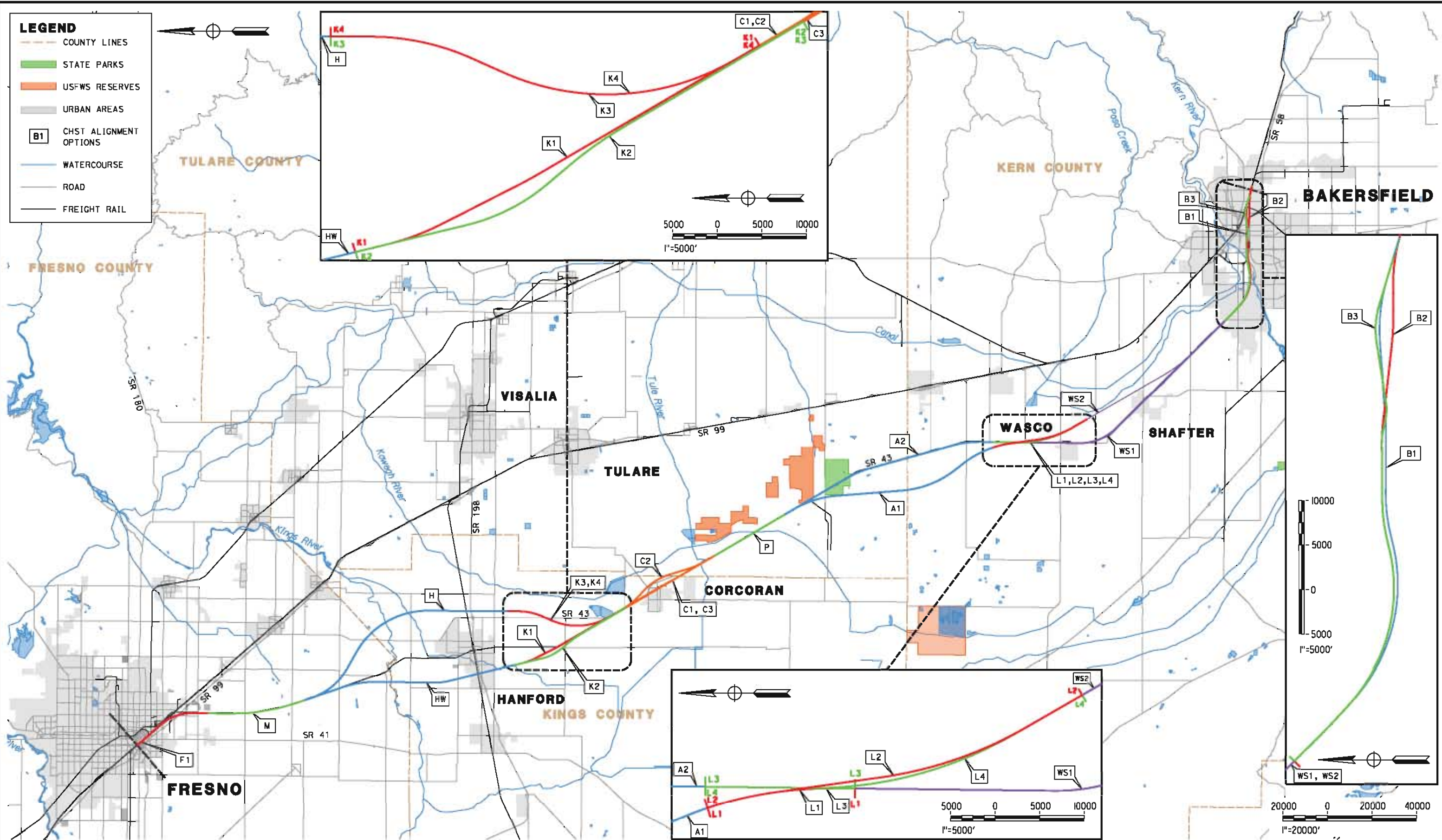


CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration



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DESIGNED BY	K. SEYMOUR
DRAWN BY	P. TONKIN
CHECKED BY	D. HUNT
IN CHARGE	R. COFFIN
DATE	05/18/12

**RECORD SET 15X
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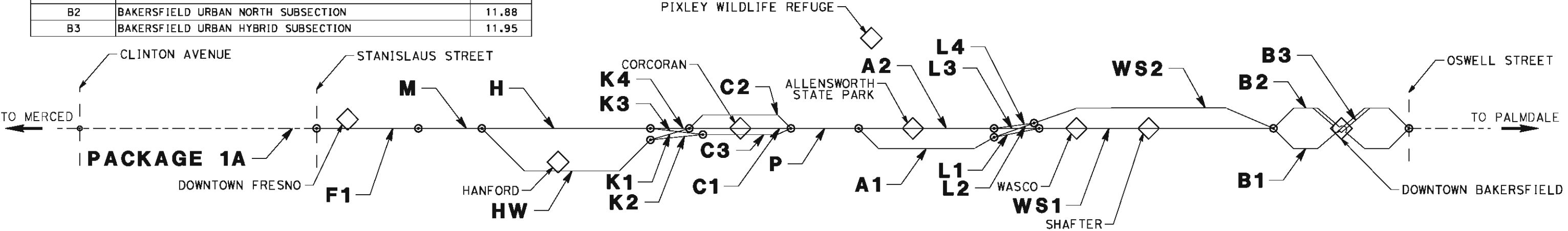


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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 11

SUBSECTION CODE	NAME	LENGTH (MI)
F1	FRESNO SUBSECTION	7.00
M	MONMOUTH SUBSECTION	8.24
H	HANFORD SUBSECTION	20.45
HW	HANFORD WEST BYPASS SUBSECTION	18.27
K1	KAWEAH SUBSECTION	9.68
K2	KAWEAH SUBSECTION	10.83
K3	KAWEAH SUBSECTION	10.61
K4	KAWEAH SUBSECTION	9.53
C1	CORCORAN SUBSECTION	9.80
C2	CORCORAN BYPASS SUBSECTION	9.94
C3	CORCORAN SUBSECTION	8.74
P	PIXLEY SUBSECTION	6.88
A1	ALLENSWORTH BYPASS SUBSECTION	19.06
A2	THROUGH ALLENSWORTH SUBSECTION	19.03
L1	POSO CREEK SUBSECTION	3.18
L2	POSO CREEK SUBSECTION	8.41
L3	POSO CREEK SUBSECTION	3.18
L4	POSO CREEK SUBSECTION	8.43
WS1	THROUGH WASCO-SHAFTER SUBSECTION	20.63
WS2	WASCO-SHAFTER BYPASS SUBSECTION	14.49
B1	BAKERSFIELD URBAN SOUTH SUBSECTION	11.95
B2	BAKERSFIELD URBAN NORTH SUBSECTION	11.88
B3	BAKERSFIELD URBAN HYBRID SUBSECTION	11.95



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. LABANOWSKI
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DATE 05/18/12

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

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0002
SCALE AS SHOWN
SHEET NO. 2 OF 11

GENERAL SHEETS

DRAWING No.	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0001	ALIGNMENT - LOCATION MAP	SHEET 1 OF 11	1
CB0002	ALIGNMENT - ALIGNMENT SUBSECTIONS DIAGRAM	SHEET 2 OF 11	
CB1003	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 1 OF 7	SHEET 3 OF 11	
CB1004	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 2 OF 7	SHEET 4 OF 11	
CB1005	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 3 OF 7	SHEET 5 OF 11	
CB1006	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 4 OF 7	SHEET 6 OF 11	
CB1007	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 5 OF 7	SHEET 7 OF 11	
CB1008	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 6 OF 7	SHEET 8 OF 11	
CB1009	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 7 OF 7	SHEET 9 OF 11	
CB0010	GENERAL - ABBREVIATIONS & LEGENDS - SHEET 1 OF 2	SHEET 10 OF 11	
CB0011	GENERAL - ABBREVIATIONS & LEGENDS - SHEET 2 OF 2	SHEET 11 OF 11	

ALIGNMENT F1 - FRESNO SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0040	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 32	1
CT1012	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - STANISLAUS ST & TUOLUMNE ST	SHEET 2 OF 32	
CT1013	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - FRESNO ST	SHEET 3 OF 32	
CT1016	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - TULARE ST (OVERHEAD)	SHEET 4 OF 32	
CT1017	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - TULARE ST (UNDERPASS)	SHEET 5 OF 32	
CT1019	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - VENTURA ST (OVERHEAD)	SHEET 6 OF 32	
CT1020	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - VENTURA ST (UNDERPASS)	SHEET 7 OF 32	
CT1021	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E CHURCH AVE	SHEET 8 OF 32	
CT1025	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E CENTRAL AVE	SHEET 9 OF 32	
CT1028	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E AMERICAN AVE	SHEET 10 OF 32	
CT2011	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - STANISLAUS ST	SHEET 11 OF 32	
CT2012	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - TUOLUMNE ST	SHEET 12 OF 32	
CT2013	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - FRESNO ST	SHEET 13 OF 32	
CT2014	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - H ST (FRESNO ST)	SHEET 14 OF 32	
CT2015	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - G ST (FRESNO ST)	SHEET 15 OF 32	
CT2016	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - TULARE ST (OVERHEAD)	SHEET 16 OF 32	
CT2017	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - TULARE ST (UNDERPASS)	SHEET 17 OF 32	
CT2018	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - G ST (TULARE ST UNDERPASS)	SHEET 18 OF 32	
CT2019	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - VENTURA ST (OVERHEAD)	SHEET 19 OF 32	
CT2020	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - VENTURA ST (UNDERPASS)	SHEET 20 OF 32	
CT2029	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - G ST & H ST (VENTURA ST UNDERPASS)	SHEET 21 OF 32	
CT2021	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - E CHURCH AVE	SHEET 22 OF 32	
CT2022	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - G ST (E CHURCH ST)	SHEET 23 OF 32	
CT2023	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - OLD E CHURCH AVE	SHEET 24 OF 32	
CT2024	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - S GOLDEN STATE BLVD	SHEET 25 OF 32	
CT2025	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - E CENTRAL AVE	SHEET 26 OF 32	
CT2027	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - S CEDAR AVE	SHEET 27 OF 32	
CT2028	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - E AMERICAN AVE	SHEET 28 OF 32	
CT3001	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 29 OF 32	
CT3002	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 30 OF 32	
CT3003	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 31 OF 32	
CT3004	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 32 OF 32	

ALIGNMENT M - MONMOUTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0050	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 29	1
CT1101	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E LINCOLN AVE	SHEET 2 OF 29	
CT1103	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E ADAMS AVE	SHEET 3 OF 29	
CT1104	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E SOUTH AVE	SHEET 4 OF 29	
CT1106	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E MANNING AVE	SHEET 5 OF 29	
CT1109	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E FLORAL AVE	SHEET 6 OF 29	
CT1110	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E FLORAL AVE	SHEET 7 OF 29	
CT1111	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E NEBRASKA AVE	SHEET 8 OF 29	
CT1112	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E NEBRASKA AVE	SHEET 9 OF 29	
CT1113	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E MOUNTAIN VIEW AVE	SHEET 10 OF 29	
CT1114	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E MOUNTAIN VIEW AVE	SHEET 11 OF 29	
CT1115	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY LAYOUT - S CHESTNUT AVE (NORTH)	SHEET 12 OF 29	
CT1116	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY LAYOUT - S CHESTNUT AVE (SOUTH)	SHEET 13 OF 29	
CT2101	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E LINCOLN AVE	SHEET 14 OF 29	
CT2102	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY PROFILE - S CEDAR AT E ADAMS AVE	SHEET 15 OF 29	
CT2103	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E ADAMS AVE	SHEET 16 OF 29	
CT2104	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E SOUTH AVE	SHEET 17 OF 29	
CT2106	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E MANNING AVE	SHEET 18 OF 29	
CT2108	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E FLORAL AVE	SHEET 19 OF 29	
CT2109	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E FLORAL AVE	SHEET 20 OF 29	
CT2110	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E NEBRASKA AVE	SHEET 21 OF 29	
CT2111	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E NEBRASKA AVE	SHEET 22 OF 29	
CT2112	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - S CHESTNUT AVE AT E NEBRASKA AVE	SHEET 23 OF 29	
CT2113	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E MOUNTAIN VIEW AVE	SHEET 24 OF 29	
CT2114	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E MOUNTAIN VIEW AVE	SHEET 25 OF 29	
CT2115	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY PROFILE - S CHESTNUT AVE (NORTH)	SHEET 26 OF 29	
CT2116	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY PROFILE - S CHESTNUT AVE (SOUTH)	SHEET 27 OF 29	
CT3010	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 28 OF 29	
CT3011	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 29 OF 29	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
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IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 152
DESIGN SUBMISSION
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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 1 OF 7

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB1003
SCALE	NO SCALE
SHEET NO.	3 OF 11

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ALIGNMENT H - HANFORD SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0055	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 69	1
CT1117	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 2 OF 69	
CT1118	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 3 OF 69	
CT1119	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 4 OF 69	
CT1120	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 5 OF 69	
CT1121	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S FOWLER AVE	SHEET 6 OF 69	
CT1122	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S FOWLER AVE	SHEET 7 OF 69	
CT1123	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E DAVIS AVE	SHEET 8 OF 69	
CT1124	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E DAVIS AVE	SHEET 9 OF 69	
CT1125	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - STATE ROUTE 43 - KINGS RIVER LEVEE ACCESS	SHEET 10 OF 69	
CT1126	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - STATE ROUTE 43 - KINGS RIVER LEVEE ACCESS	SHEET 11 OF 69	
CT1128	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - CAIRO AVE	SHEET 12 OF 69	
CT1129	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - CAIRO AVE	SHEET 13 OF 69	
CT1130	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - DOVER AVE	SHEET 14 OF 69	
CT1131	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - DOVER AVE	SHEET 15 OF 69	
CT1132	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - 8TH AVE (NORTH)	SHEET 16 OF 69	
CT1133	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - 8TH AVE (SOUTH)	SHEET 17 OF 69	
CT1134	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 18 OF 69	
CT1135	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 19 OF 69	
CT1136	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - ELDER AVE	SHEET 20 OF 69	
CT1137	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - ELDER AVE	SHEET 21 OF 69	
CT1138	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 22 OF 69	
CT1139	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 23 OF 69	
CT1140	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 24 OF 69	
CT1141	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 25 OF 69	
CT1144	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HANFORD ARMONA RD	SHEET 26 OF 69	
CT1145	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HANFORD ARMONA RD	SHEET 27 OF 69	
CT1146	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 28 OF 69	
CT1147	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 29 OF 69	
CT1148	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 30 OF 69	
CT1149	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 31 OF 69	
CT2117	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 32 OF 69	
CT2118	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 33 OF 69	
CT2119	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 34 OF 69	
CT2120	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 35 OF 69	
CT2121	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - S FOWLER AVE	SHEET 36 OF 69	
CT2122	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - S FOWLER AVE	SHEET 37 OF 69	
CT2123	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - E DAVIS AVE	SHEET 38 OF 69	
CT2124	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - E DAVIS AVE	SHEET 39 OF 69	
CT2125	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43	SHEET 40 OF 69	
CT2126	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - STATE ROUTE 43 KINGS RIVER LEVEE ACCESS	SHEET 41 OF 69	
CT2127	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - STATE ROUTE 43 KINGS RIVER LEVEE ACCESS	SHEET 42 OF 69	
CT2128	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - CAIRO AVE	SHEET 43 OF 69	
CT2129	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - CAIRO AVE	SHEET 44 OF 69	
CT2130	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - DOVER AVE	SHEET 45 OF 69	
CT2131	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - DOVER AVE	SHEET 46 OF 69	
CT2132	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - 8TH AVE (NORTH)	SHEET 47 OF 69	
CT2133	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - 8TH AVE (SOUTH)	SHEET 48 OF 69	
CT2134	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 49 OF 69	
CT2135	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 50 OF 69	
CT2136	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - ELDER AVE	SHEET 51 OF 69	
CT2137	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - ELDER AVE	SHEET 52 OF 69	
CT2138	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 53 OF 69	
CT2139	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 54 OF 69	
CT2140	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 55 OF 69	
CT2141	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 56 OF 69	
CT2142	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - 7 1/2 AVE CONNECTOR	SHEET 57 OF 69	
CT2143	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - 7 1/2 AVE	SHEET 58 OF 69	
CT2144	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 59 OF 69	
CT2145	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 60 OF 69	
CT2146	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 61 OF 69	
CT2147	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 62 OF 69	
CT2148	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - IONA AVE	SHEET 63 OF 69	
CT2149	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - IONA AVE	SHEET 64 OF 69	

ALIGNMENT H - HANFORD SUBSECTION CONT'D

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CR1251	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY LAYOUT - E CLARKSON AVE & S MINNEWAWA AVE	SHEET 65 OF 69	1
CR2251	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY PROFILE - E CLARKSON AVE & S MINNEWAWA AVE	SHEET 66 OF 69	
CR2252	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY PROFILE - E CLARKSON AVE & S MINNEWAWA AVE	SHEET 67 OF 69	
CT3030	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 68 OF 69	
CT3031	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 69 OF 69	

ALIGNMENT HW - HANFORD WEST BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0210	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 51	1
CT1310	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - E CONEJO AVE	SHEET 2 OF 51	
CT1311	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 3 OF 51	
CT1313	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 4 OF 51	
CT1314	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 5 OF 51	
CT1315	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 6 OF 51	
CT1316	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 7 OF 51	
CT1317	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 8 OF 51	
CT1319	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 9 OF 51	
CT1321	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - GRANGEVILLE BLVD	SHEET 10 OF 51	
CT1322	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION LAYOUT - W LACEY BLVD / 13TH AVE	SHEET 11 OF 51	
CT1323	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION LAYOUT - W LACEY BLVD / 13TH AVE	SHEET 12 OF 51	
CT1325	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (BELOW-GRADE) - GRADE SEPARATION LAYOUT - W LACEY BLVD / 13TH AVE	SHEET 13 OF 51	
CT1327	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION LAYOUT - GLENDALE AVE/STATE ROUTE 198/HANFORD ARMONA RD	SHEET 14 OF 51	
CT1328	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION LAYOUT - GLENDALE AVE/STATE ROUTE 198/HANFORD ARMONA RD	SHEET 15 OF 51	
CT1330	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (BELOW-GRADE) - GRADE SEPARATION LAYOUT - GLENDALE AVE/STATE ROUTE 198/HANFORD ARMONA RD	SHEET 16 OF 51	
CT1334	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 17 OF 51	
CT1336	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 18 OF 51	
CT2310	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - E CONEJO AVE	SHEET 19 OF 51	
CT2311	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 20 OF 51	
CT2312	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 21 OF 51	
CT2313	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 22 OF 51	
CT2314	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 23 OF 51	
CT2315	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 24 OF 51	
CT2316	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 25 OF 51	
CT2317	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 26 OF 51	
CT2318	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 27 OF 51	
CT2319	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 28 OF 51	
CT2320	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 29 OF 51	
CT2321	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - GRANGEVILLE BLVD	SHEET 30 OF 51	
CT2322	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION PROFILE - W LACEY BLVD	SHEET 31 OF 51	
CT2323	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION PROFILE - 13TH AVE	SHEET 32 OF 51	
CT2324	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION PROFILE - 13TH AVE	SHEET 33 OF 51	
CT2325	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (BELOW-GRADE) - GRADE SEPARATION PROFILE - W LACEY BLVD	SHEET 34 OF 51	
CT2326	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (BELOW-GRADE) - GRADE SEPARATION PROFILE - 13TH AVE	SHEET 35 OF 51	
CT2327	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 198	SHEET 36 OF 51	
CT2328	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 198	SHEET 37 OF 51	
CT2329	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION PROFILE - GLENDALE AVE	SHEET 38 OF 51	
CT2330	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 39 OF 51	
CT2331	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 198 RAMPS	SHEET 40 OF 51	
CT2332	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (BELOW-GRADE) - GRADE SEPARATION PROFILE - STATE ROUTE 198 / GLENDALE AVE	SHEET 41 OF 51	
CT2333	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (BELOW-GRADE) - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 42 OF 51	
CT2334	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 43 OF 51	
CT2335	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 44 OF 51	
CT2336	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - IONA AVE	SHEET 45 OF 51	
CT2337	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - IONA AVE	SHEET 46 OF 51	
CT2338	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - 12TH AVE (AT IONA AVE)	SHEET 47 OF 51	
CT 3330	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 48 OF 51	
CT 3331	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 49 OF 51	
CT 3332	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 50 OF 51	
CT 3333	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 51 OF 51	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
CHECKED BY G. SCHLERETH
IN CHARGE R. COFFIN
DATE 05/18/12

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NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 2 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1004
SCALE NO SCALE
SHEET NO. 4 OF 11

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ALIGNMENT C1 - CORCORAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0070	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 19	1
CT1230	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 2 OF 19	
CT1231	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 3 OF 19	
CT1232	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - AVE 144	SHEET 4 OF 19	
CT1233	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - AVE 144	SHEET 5 OF 19	
CT2230	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 6 OF 19	
CT2231	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 7 OF 19	
CT2232	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION PROFILE - AVE 144	SHEET 8 OF 19	
CT2233	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION PROFILE - AVE 144	SHEET 9 OF 19	
CR1201	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE OFF RAMP	SHEET 10 OF 19	
CR1202	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 11 OF 19	
CR1203	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 12 OF 19	
CR1204	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 13 OF 19	
CR2201	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE & SUPERELEVATION DIAGRAM - SANTA FE AVE OFF RAMP	SHEET 14 OF 19	
CR2202	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE - SANTA FE AVE	SHEET 15 OF 19	
CR2203	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE - SANTA FE AVE	SHEET 16 OF 19	
CR2204	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE - SANTA FE AVE	SHEET 17 OF 19	
CT3040	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 18 OF 19	
CT3041	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 19 OF 19	

ALIGNMENT C2 - CORCORAN BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0075	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 24	1
CT1239	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 2 OF 24	
CT1240	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 3 OF 24	
CT1241	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (CORCORAN)	SHEET 4 OF 24	
CT1242	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (CORCORAN)	SHEET 5 OF 24	
CT1243	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (CORCORAN)	SHEET 6 OF 24	
CT1244	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - CORCORAN HWY	SHEET 7 OF 24	
CT1248	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - WHITLEY AVE/ STATE ROUTE 137	SHEET 8 OF 24	
CT2239	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 9 OF 24	
CT2240	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 10 OF 24	
CT2241	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 (CORCORAN)	SHEET 11 OF 24	
CT2242	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 (CORCORAN)	SHEET 12 OF 24	
CT2243	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 (CORCORAN)	SHEET 13 OF 24	
CT2244	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - CORCORAN HWY	SHEET 14 OF 24	
CT2245	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - CORCORAN HWY	SHEET 15 OF 24	
CT2246	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - 5TH AVE	SHEET 16 OF 24	
CT2247	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - ORANGE AVE CONNECTOR	SHEET 17 OF 24	
CT2248	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - WHITLEY AVE / STATE ROUTE 137	SHEET 18 OF 24	
CR1230	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY LAYOUT - NILES AVE	SHEET 19 OF 24	
CR1231	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY LAYOUT - 5 1/2 AVE	SHEET 20 OF 24	
CR2230	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY PROFILE - NILES AVE	SHEET 21 OF 24	
CR2231	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY PROFILE - 5 1/2 AVE	SHEET 22 OF 24	
CT3042	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 23 OF 24	
CT3043	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 24 OF 24	

ALIGNMENT C3 - CORCORAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0080	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 43	1
CT1271	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - CHARLES ST	SHEET 2 OF 43	
CT1272	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - CHARLES ST	SHEET 3 OF 43	
CT1273	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - OTIS AVE	SHEET 4 OF 43	
CT1274	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - OTIS AVE	SHEET 5 OF 43	
CT1275	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - OTIS AVE	SHEET 6 OF 43	
CT1280	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 7 OF 43	
CT1281	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 8 OF 43	
CT1282	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 9 OF 43	
CT1283	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 10 OF 43	
CT1284	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 11 OF 43	
CT1294	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - AVE 148	SHEET 12 OF 43	
CT1295	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - AVE 148 & RD 24	SHEET 13 OF 43	
CT1296	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - RD 24	SHEET 14 OF 43	
CT2271	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - CHARLES ST	SHEET 15 OF 43	
CT2272	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - CHARLES ST	SHEET 16 OF 43	
CT2273	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - SANTA FE AVE	SHEET 17 OF 43	
CT2274	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - OTIS AVE	SHEET 18 OF 43	
CT2275	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - OTIS AVE	SHEET 19 OF 43	
CT2276	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - OTIS AVE	SHEET 20 OF 43	
CT2277	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - CONNECTIONS TO OTIS AVE	SHEET 21 OF 43	
CT2278	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - CONNECTIONS TO OTIS AVE	SHEET 22 OF 43	
CT2279	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - LETTS AVE	SHEET 23 OF 43	
CT2284	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 24 OF 43	
CT2285	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 25 OF 43	
CT2286	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 26 OF 43	
CT2287	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 27 OF 43	
CT2288	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 28 OF 43	
CT2289	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 29 OF 43	
CT2290	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 30 OF 43	
CT2291	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 31 OF 43	
CT2292	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 32 OF 43	
CT2293	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 MAINLINE (SB)	SHEET 33 OF 43	
CT2294	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 SB OFF RAMP	SHEET 34 OF 43	
CT2295	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 SB ON RAMP	SHEET 35 OF 43	
CT2296	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 NB OFF RAMP	SHEET 36 OF 43	
CT2297	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 NB ON RAMP	SHEET 37 OF 43	
CT2298	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 148	SHEET 38 OF 43	
CT2299	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 148	SHEET 39 OF 43	
CT2300	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - RD 24	SHEET 40 OF 43	
CT2301	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - RD 24	SHEET 41 OF 43	
CT3044	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 42 OF 43	
CT3045	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 43 OF 43	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
CHECKED BY G. SCHLERETH
IN CHARGE R. COFFIN
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
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INDEX OF SHEETS
SHEET 4 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1006
SCALE NO SCALE
SHEET NO. 6 OF 11

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ALIGNMENT P - PIXLEY SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0100	PIXLEY SUBSECTION - ALIGNMENT P - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 16	1
CT1401	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION LAYOUT - AVE 128	SHEET 2 OF 16	
CT1411	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION LAYOUT - HESSE AVE	SHEET 3 OF 16	
CT1421	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION LAYOUT - AVE 112	SHEET 4 OF 16	
CT1431	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION LAYOUT - AVE 88	SHEET 5 OF 16	
CT2401	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 128	SHEET 6 OF 16	
CT2402	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 128	SHEET 7 OF 16	
CT2411	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - HESSE AVE	SHEET 8 OF 16	
CT2412	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - HESSE AVE	SHEET 9 OF 16	
CT2421	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 112	SHEET 10 OF 16	
CT2422	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 112	SHEET 11 OF 16	
CT2423	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 112 CONNECTOR	SHEET 12 OF 16	
CT2431	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 88	SHEET 13 OF 16	
CT2432	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 88	SHEET 14 OF 16	
CT2433	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 88 CONNECTOR	SHEET 15 OF 16	
CT3060	PIXLEY SUBSECTION - ALIGNMENT P - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 16 OF 16	

ALIGNMENT A1 - ALLENSWORTH BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0110	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 20	2
CT1501	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - COUNTY RD J22	SHEET 2 OF 20	
CT1511	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - GARCES HWY	SHEET 3 OF 20	
CT1512	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - SCOFIELD AVE	SHEET 4 OF 20	
CT1513	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - SCOFIELD AVE	SHEET 5 OF 20	
CT1521	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - POND RD	SHEET 6 OF 20	
CT1522	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - POND RD	SHEET 7 OF 20	
CT1523	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - MAGNOLIA AVE	SHEET 8 OF 20	
CT1531	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - PETERSON RD	SHEET 9 OF 20	
CT2501	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - COUNTY RD J22	SHEET 10 OF 20	
CT2511	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - GARCES HWY	SHEET 11 OF 20	
CT2512	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - SCOFIELD AVE	SHEET 12 OF 20	
CT2513	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - SCOFIELD AVE	SHEET 13 OF 20	
CT2514	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - SCOFIELD AVE	SHEET 14 OF 20	
CT2521	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - POND RD	SHEET 15 OF 20	
CT2522	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - POND RD	SHEET 16 OF 20	
CT2523	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - MAGNOLIA AVE	SHEET 17 OF 20	
CT2524	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - MAGNOLIA AVE	SHEET 18 OF 20	
CT2531	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - PETERSON RD	SHEET 19 OF 20	
CT3070	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 20 OF 20	

ALIGNMENT A2 - ALLENSWORTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0120	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 18	2
CT1601	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - COUNTY RD J22	SHEET 2 OF 18	
CT1602	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - COUNTY RD J22	SHEET 3 OF 18	
CT1611	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - AVE 24	SHEET 4 OF 18	
CT1621	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - GARCES HWY	SHEET 5 OF 18	
CT1631	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - SCHUSTER RD	SHEET 6 OF 18	
CT1641	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - PETERSON RD	SHEET 7 OF 18	
CT2601	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - COUNTY RD J22	SHEET 8 OF 18	
CT2602	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - COUNTY RD J22	SHEET 9 OF 18	
CT2611	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - AVE 24	SHEET 10 OF 18	
CT2612	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - AVE 24	SHEET 11 OF 18	
CT2621	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - GARCES HWY	SHEET 12 OF 18	
CT2622	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - GARCES HWY	SHEET 13 OF 18	
CT2631	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - SCHUSTER RD	SHEET 14 OF 18	
CT2632	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - SCHUSTER RD	SHEET 15 OF 18	
CT2641	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - PETERSON RD	SHEET 16 OF 18	
CT2642	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - PETERSON RD	SHEET 17 OF 18	
CT3080	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 18 OF 18	

ALIGNMENT L1 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0130	POSO CREEK SUBSECTION - ALIGNMENT L1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 1	2

ALIGNMENT L2 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0140	POSO CREEK SUBSECTION - ALIGNMENT L2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 7	2
CT1751	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEPARATION LAYOUT - STATE ROUTE 46	SHEET 2 OF 7	
CT1752	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEPARATION LAYOUT - STATE ROUTE 46	SHEET 3 OF 7	
CT2751	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 46	SHEET 4 OF 7	
CT2752	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 46	SHEET 5 OF 7	
CT2753	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEPARATION PROFILE - ROOT AVE	SHEET 6 OF 7	
CT3100	POSO CREEK SUBSECTION - ALIGNMENT L2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 7 OF 7	

ALIGNMENT L3 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0150	POSO CREEK SUBSECTION - ALIGNMENT L3 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 1	2

ALIGNMENT L4 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0160	POSO CREEK SUBSECTION - ALIGNMENT L4 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 7	2
CT1851	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEPARATION LAYOUT - STATE ROUTE 46	SHEET 2 OF 7	
CT1852	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEPARATION LAYOUT - STATE ROUTE 46	SHEET 3 OF 7	
CT2851	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 46	SHEET 4 OF 7	
CT2852	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 46	SHEET 5 OF 7	
CT2853	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEPARATION PROFILE - ROOT AVE	SHEET 6 OF 7	
CT3120	POSO CREEK SUBSECTION - ALIGNMENT L4 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 7 OF 7	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
CHECKED BY G. SCHLERETH
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 5 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1007
SCALE NO SCALE
SHEET NO. 7 OF 11

ALIGNMENT WS1 - WASCO-SHAFTER SUBSECTION

[illegible]

ALIGNMENT WS2 - WASCO-SHAFTER BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0180	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 59	2
CT1931	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KIMBERLINA RD	SHEET 2 OF 59	
CT1932	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KIMBERLINA RD & POPLAR AVE	SHEET 3 OF 59	
CT1933	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - POPLAR AVE	SHEET 4 OF 59	
CT1941	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - SHAFTER AVE	SHEET 5 OF 59	
CT1942	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - SHAFTER AVE	SHEET 6 OF 59	
CT1951	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - BEECH AVE	SHEET 7 OF 59	
CT1952	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - BEECH AVE & FRESNO AVE	SHEET 8 OF 59	
CT1961	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - EAST LERDO HWY	SHEET 9 OF 59	
CT1962	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - EAST LERDO HWY & CHERRY AVE	SHEET 10 OF 59	
CT1963	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - CHERRY AVE & RIVERSIDE ST	SHEET 11 OF 59	
CT1964	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - CHERRY AVE & RIVERSIDE ST	SHEET 12 OF 59	
CT1970	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - 7TH STANDARD RD	SHEET 13 OF 59	
CT1971	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KRATZMEYER RD	SHEET 14 OF 59	
CT1975	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - RENFRO RD	SHEET 15 OF 59	
CT1976	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - RENFRO RD	SHEET 16 OF 59	
CT2931	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KIMBERLINA RD	SHEET 17 OF 59	
CT2932	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KIMBERLINA RD	SHEET 18 OF 59	
CT2933	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - POPLAR AVE	SHEET 19 OF 59	
CT2934	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - POPLAR AVE	SHEET 20 OF 59	
CT2935	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - POPLAR AVE	SHEET 21 OF 59	
CT2941	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - SHAFTER AVE	SHEET 22 OF 59	
CT2942	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - SHAFTER AVE	SHEET 23 OF 59	
CT2951	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - BEECH AVE	SHEET 24 OF 59	
CT2952	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - BEECH AVE	SHEET 25 OF 59	
CT2953	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - FRESNO AVE	SHEET 26 OF 59	
CT2961	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - EAST LERDO HWY	SHEET 27 OF 59	
CT2962	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - EAST LERDO HWY	SHEET 28 OF 59	
CT2963	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - CHERRY AVE	SHEET 29 OF 59	
CT2964	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - CHERRY AVE	SHEET 30 OF 59	
CT2965	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RIVERSIDE ST	SHEET 31 OF 59	
CT2966	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RIVERSIDE ST	SHEET 32 OF 59	
CT2967	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RIVERSIDE ST	SHEET 33 OF 59	
CT2970	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - 7TH STANDARD RD	SHEET 34 OF 59	
CT2971	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KRATZMEYER RD	SHEET 35 OF 59	
CT2972	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KRATZMEYER CONNECTOR	SHEET 36 OF 59	
CT2977	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RENFRO RD	SHEET 37 OF 59	
CT2978	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RENFRO RD	SHEET 38 OF 59	
CT2979	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - NORIEGA CONNECTOR	SHEET 39 OF 59	
CR1984	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - MANNEL AVE & MERCED AVE	SHEET 40 OF 59	
CR1985	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 41 OF 59	
CR1986	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 42 OF 59	
CR1987	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 43 OF 59	
CR1988	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 44 OF 59	
CR1989	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 45 OF 59	
CR1990	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 46 OF 59	
CR1991	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY & RENFRO RD	SHEET 47 OF 59	
CR2984	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - MANNEL AVE & MERCED AVE	SHEET 48 OF 59	
CR2985	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 49 OF 59	
CR2986	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 50 OF 59	
CR2987	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 51 OF 59	
CR2988	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 52 OF 59	
CR2989	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 53 OF 59	
CR2990	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 54 OF 59	
CR2991	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 55 OF 59	
CR2992	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 56 OF 59	
CT3140	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 57 OF 59	
CT3141	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 58 OF 59	
CT3142	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 59 OF 59	

						DESIGNED BY E. SUDHAUSEN	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 CALIFORNIA HIGH-SPEED TRAIN	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD ROADWAY & GRADE SEPARATION INDEX OF SHEETS SHEET 6 OF 7	CONTRACT NO. HSR 06-0003
					DRAWN BY P. LEES	DRAWING NO. CB1008					
					CHECKED BY G. SCHLERETH	SCALE NO SCALE					
					IN CHARGE R. COFFIN	SHEET NO. 8 OF 11					
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12					

5/14/2012 12:03:24 PM paul.tankin \\global\americas\labs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Rail\General Sheets\FB-CB-1009.dgn

ALIGNMENT B1 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0190	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 10	2
CT1980	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 10	
CT2980	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 10	
CR1949	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 4 OF 10	
CR1950	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - ENGER ST	SHEET 5 OF 10	
CR1951	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - N ST PEDESTRIAN BRIDGE	SHEET 6 OF 10	
CR1952	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - VERDUGO LN	SHEET 7 OF 10	
CR2949	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 8 OF 10	
CR2950	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY PROFILE - ENGER ST AND VERDUGO LN	SHEET 9 OF 10	
CT3170	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 10 OF 10	

ALIGNMENT B2 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0200	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 13	2
CT1981	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 13	
CT2981	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 13	
CR1959	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 4 OF 13	
CR1960	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - ENGER ST	SHEET 5 OF 13	
CR1961	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - N ST PEDESTRIAN BRIDGE	SHEET 6 OF 13	
CR1962	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - EAST CALIFORNIA AVE	SHEET 7 OF 13	
CR1963	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - VERDUGO LN	SHEET 8 OF 13	
CR2959	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 9 OF 13	
CR2960	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - ENGER ST AND VERDUGO LN	SHEET 10 OF 13	
CR2962	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - EAST CALIFORNIA AVE	SHEET 11 OF 13	
CT3160	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 12 OF 13	
CT3180	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 13 OF 13	

ALIGNMENT B3 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0240	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 9	2
CT1990	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 9	
CT2990	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 9	
CR1970	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 4 OF 9	
CR2970	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY PROFILE - SANTA FE WAY	SHEET 5 OF 9	
CR1971	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - ENGER ST	SHEET 6 OF 9	
CR1972	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - VERDUGO LN	SHEET 7 OF 9	
CR2971	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY PROFILE - ENGER AND VERDUGO LN	SHEET 8 OF 9	
CT3190	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTION	SHEET 9 OF 9	

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DRAWN BY P. LEES
CHECKED BY G. SCHLERETH
IN CHARGE R. COFFIN
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 7 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1009
SCALE NO SCALE
SHEET NO. 9 OF 11

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

<div>D</div>	
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
<div>E</div>	
E	EAST, EASTING
EA	ACTUAL SUPERELEVATION
EU	UNBALANCED SUPERELEVATION

	<div>_____</div>
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

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

	<div style="border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">K</div>
K	DISTANCE TO ACHIEVE 1% GRADE CHANGE
	<div style="border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">L</div>
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)

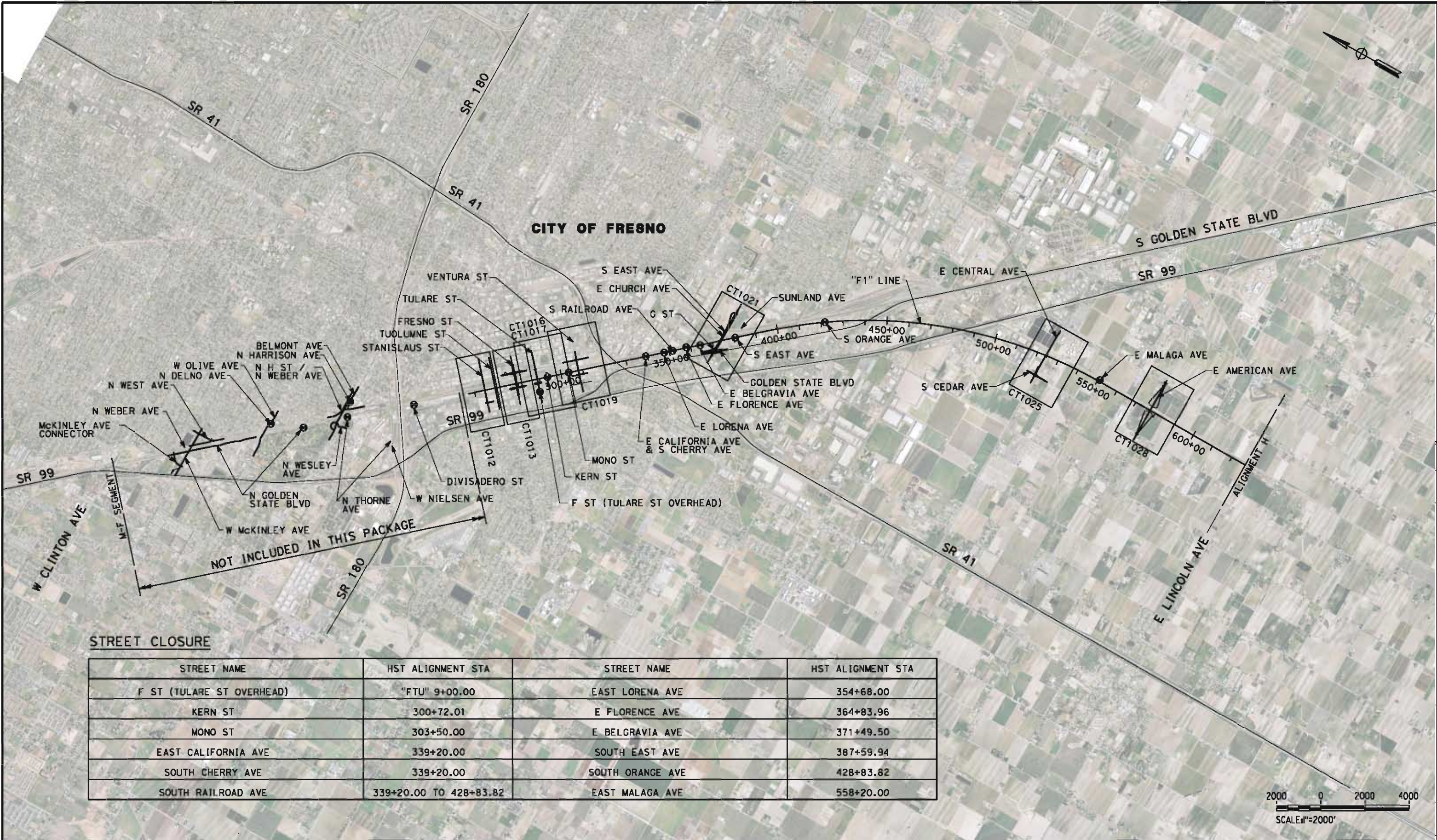
M CONTINUED	
MOD	MODIFIED, MODIFY
MON	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MPH	MILES PER HOUR
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EARTH
MTL	MATERIAL
MSS	MOVING SCAFFOLDING SYSTEM
N	
N	NORTH, NORTHING
NB	NORTHBOUND
NO.	NUMBER (MUST HAVE PERIOD)
NOS.	NUMBERS (MUST HAVE PERIOD)
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
P, 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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB0010
SCALE	NO SCALE
SHEET NO.	10 OF 11

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STREET CLOSURE

STREET NAME	HST ALIGNMENT STA	STREET NAME	HST ALIGNMENT STA
F ST (TULARE ST OVERHEAD)	"FTU" 9+00.00	EAST LORENA AVE	354+68.00
KERN ST	300+72.01	E FLORENCE AVE	364+83.96
MONO ST	303+50.00	E BELGRAVIA AVE	371+49.50
EAST CALIFORNIA AVE	339+20.00	SOUTH EAST AVE	387+59.94
SOUTH CHERRY AVE	339+20.00	SOUTH ORANGE AVE	428+83.82
SOUTH RAILROAD AVE	339+20.00 TO 428+83.82	EAST MALAGA AVE	558+20.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0040
SCALE
AS SHOWN
SHEET NO.
1 OF 32

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RETAINING WALL DATA				
NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	30.48' LT "STN" 16+22.65	30.48' LT "STN" 20+01.08	379'	26'
2	30.48' RT "STN" 16+91.14	30.48' RT "STN" 20+01.08	310'	26'
3	30.48' LT "STN" 27+96.08	30.48' LT "STN" 30+78.65	283'	19'
4	30.48' RT "STN" 27+96.08	30.48' RT "STN" 30+77.33	281'	19'

LINE DATA		
NO.	BEARING	DISTANCE
1	N 48°41'35" E	883.44'
2	N 48°58'12" E	1616.56'
3	N 49°00'00" E	1269.19'
4	N 48°53'05" E	1130.81'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. NETTLETON
DRAWN BY V. ORTEGA
CHECKED BY B. RAWSON
IN CHARGE O. EARLE
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION LAYOUT
STANISLAUS ST & TUOLUMNE ST

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1012
SCALE AS SHOWN
SHEET NO. 2 OF 32

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CURVE DATA

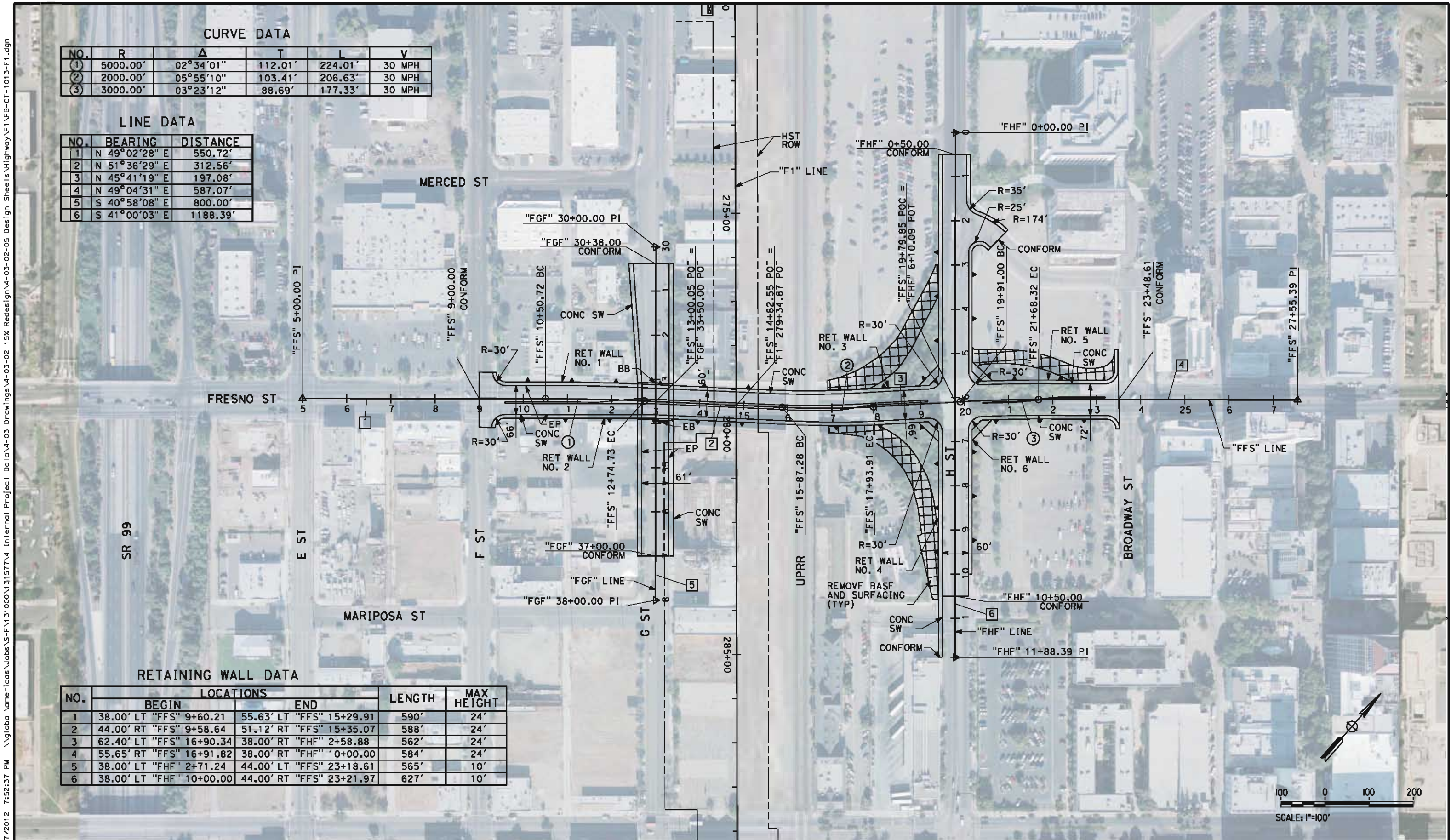
NO.	R	Δ	T	L	V
①	5000.00'	02°34'01"	112.01'	224.01'	30 MPH
②	2000.00'	05°55'10"	103.41'	206.63'	30 MPH
③	3000.00'	03°23'12"	88.69'	177.33'	30 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	N 49°02'28" E	550.72'
2	N 51°36'29" E	312.56'
3	N 45°41'19" E	197.08'
4	N 49°04'31" E	587.07'
5	S 40°58'08" E	800.00'
6	S 41°00'03" E	1188.39'

RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	38.00' LT "FFS" 9+60.21	55.63' LT "FFS" 15+29.91	590'	24'
2	44.00' RT "FFS" 9+58.64	51.12' RT "FFS" 15+35.07	588'	24'
3	62.40' LT "FFS" 16+90.34	38.00' RT "FHF" 2+58.88	562'	24'
4	55.65' RT "FFS" 16+91.82	38.00' RT "FHF" 10+00.00	584'	24'
5	38.00' LT "FHF" 2+71.24	44.00' LT "FFS" 23+18.61	565'	10'
6	38.00' LT "FHF" 10+00.00	44.00' RT "FFS" 23+21.97	627'	10'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMB
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



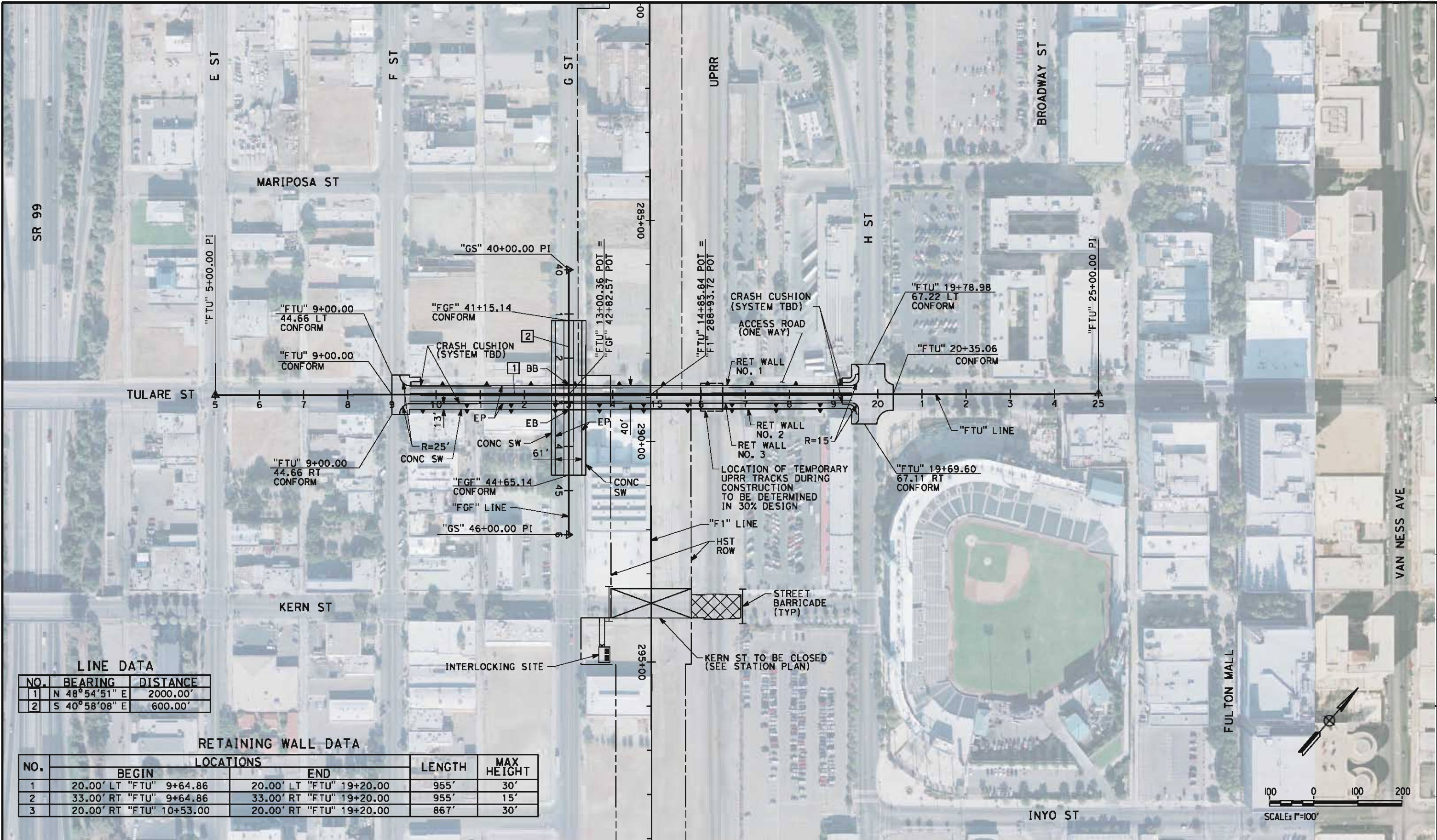
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 GRADE SEPARATION LAYOUT FRESNO ST

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1013
SCALE AS SHOWN
SHEET NO. 3 OF 32

NO.	BEARING	DISTANCE
1	N 49°56'15" E	228.35'
2	N 48°54'51" E	1720.30'
3	N 48°41'02" E	60.34'

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	31.00' LT "FTU" 5+60.68	20.00' LT "FTU" 12+55.00	689'	28'
2	28.00' RT "FTU" 5+41.19	28.00' RT "FTU" 12+55.00	713'	28'
3	20.00' LT "FTU" 20+35.00	20.00' LT "FTU" 25+23.01	488'	27'
4	28.00' RT "FTU" 20+35.00	32.84' RT "FTU" 25+39.66	506'	27'

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LINE DATA

NO.	BEARING	DISTANCE
1	N 48°54'51" E	2000.00'
2	S 40°58'08" E	600.00'

RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	20.00' LT "FTU" 9+64.86	20.00' LT "FTU" 19+20.00	955'	30'
2	33.00' RT "FTU" 9+64.86	33.00' RT "FTU" 19+20.00	955'	15'
3	20.00' RT "FTU" 10+53.00	20.00' RT "FTU" 19+20.00	867'	30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 GRADE SEPARATION LAYOUT TULARE ST (UNDERPASS)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1017
SCALE AS SHOWN
SHEET NO. 5 OF 32

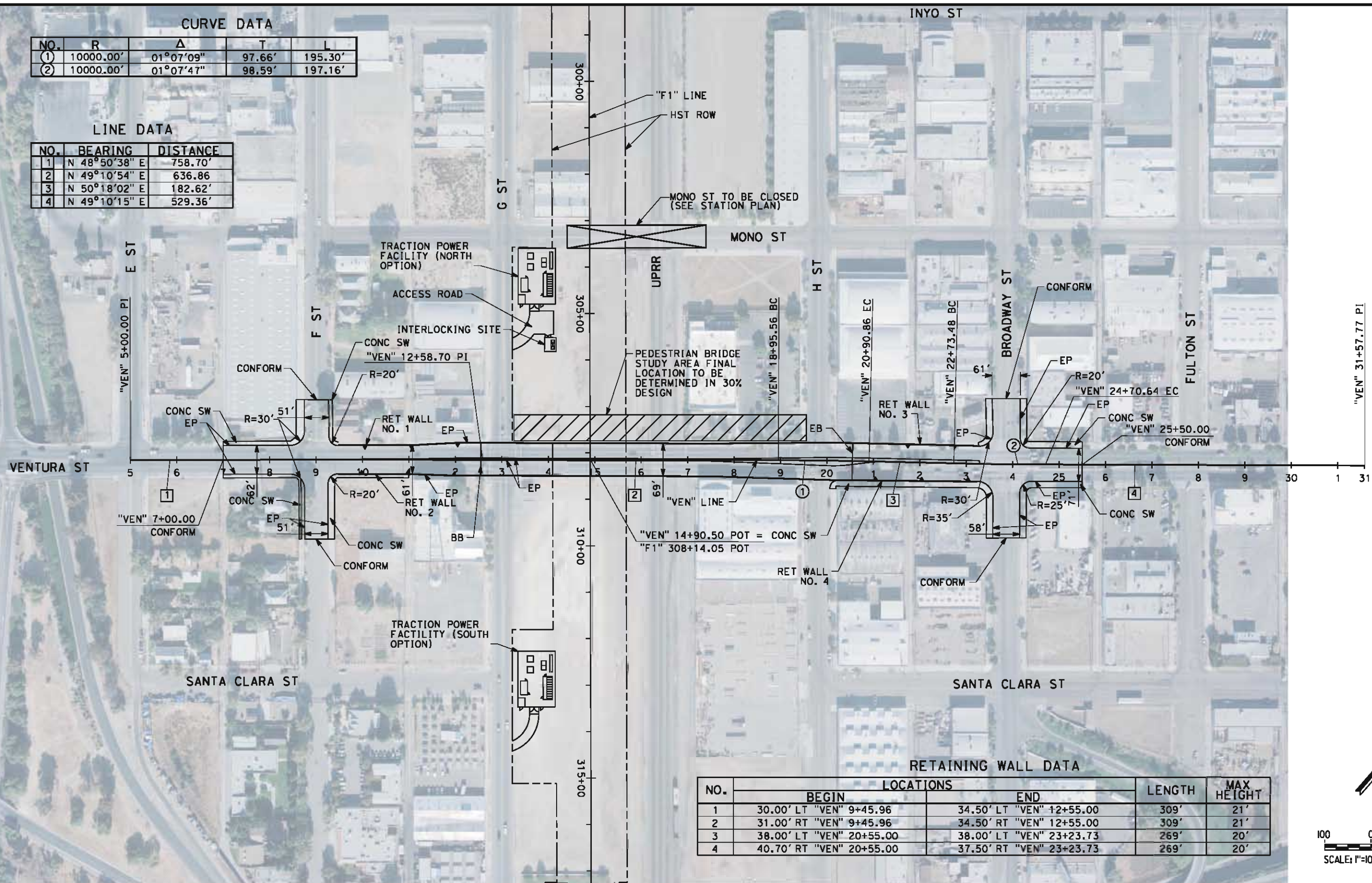
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CURVE DATA

NO.	R	Δ	T	L
①	10000.00'	01°07'09"	97.66'	195.30'
②	10000.00'	01°07'47"	98.59'	197.16'

LINE DATA

NO.	BEARING	DISTANCE
1	N 48°50'38" E	758.70'
2	N 49°10'54" E	636.86
3	N 50°18'02" E	182.62'
4	N 49°10'15" E	529.36'



RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	30.00' LT "VEN" 9+45.96	34.50' LT "VEN" 12+55.00	309'	21'
2	31.00' RT "VEN" 9+45.96	34.50' RT "VEN" 12+55.00	309'	21'
3	38.00' LT "VEN" 20+55.00	38.00' LT "VEN" 23+23.73	269'	20'
4	40.70' RT "VEN" 20+55.00	37.50' RT "VEN" 23+23.73	269'	20'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. NETTLETON
DRAWN BY V. ORTEGA
CHECKED BY M. BANN
IN CHARGE O. EARLE
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

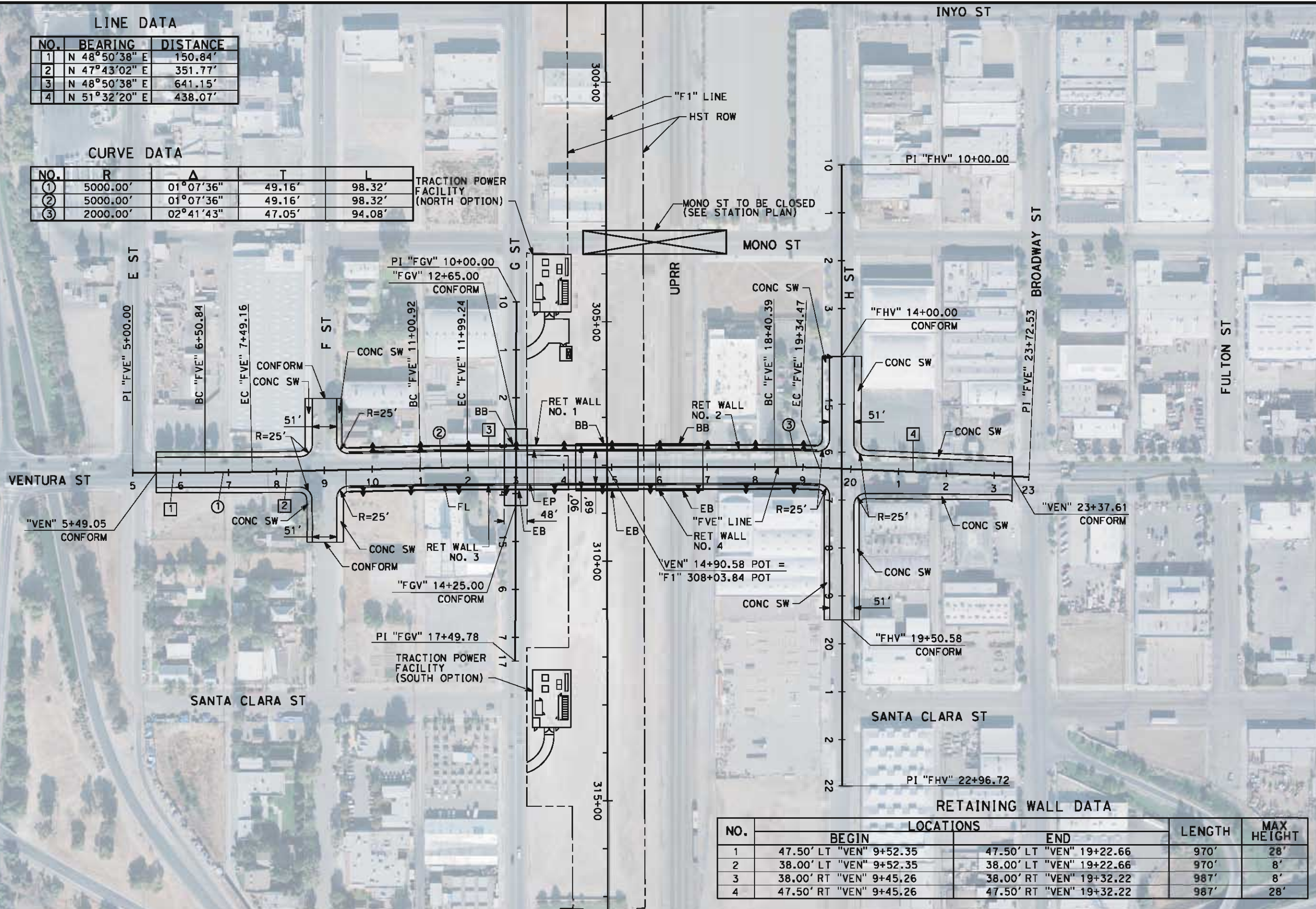


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 GRADE SEPARATION LAYOUT VENTURA ST (OVERHEAD)

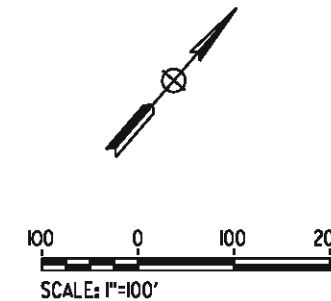
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1019
SCALE AS SHOWN
SHEET NO. 6 OF 32

NO.	BEARING	DISTANCE
1	N 48°50'38" E	150.84'
2	N 47°43'02" E	351.77'
3	N 48°50'38" E	641.15'
4	N 51°32'20" E	438.07'

NO.	R	Δ	T	L
①	5000.00'	01°07'36"	49.16'	98.32'
②	5000.00'	01°07'36"	49.16'	98.32'
③	2000.00'	02°41'43"	47.05'	94.08'



NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	47.50' LT "VEN" 9+52.35	47.50' LT "VEN" 19+22.66	970'	28'
2	38.00' LT "VEN" 9+52.35	38.00' LT "VEN" 19+22.66	970'	8'
3	38.00' RT "VEN" 9+45.26	38.00' RT "VEN" 19+32.22	967'	8'
4	47.50' RT "VEN" 9+45.26	47.50' RT "VEN" 19+32.22	967'	28'

[illegible]

DESIGNED BY	J. NETTLETON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	Q. EARLE
DATE	05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

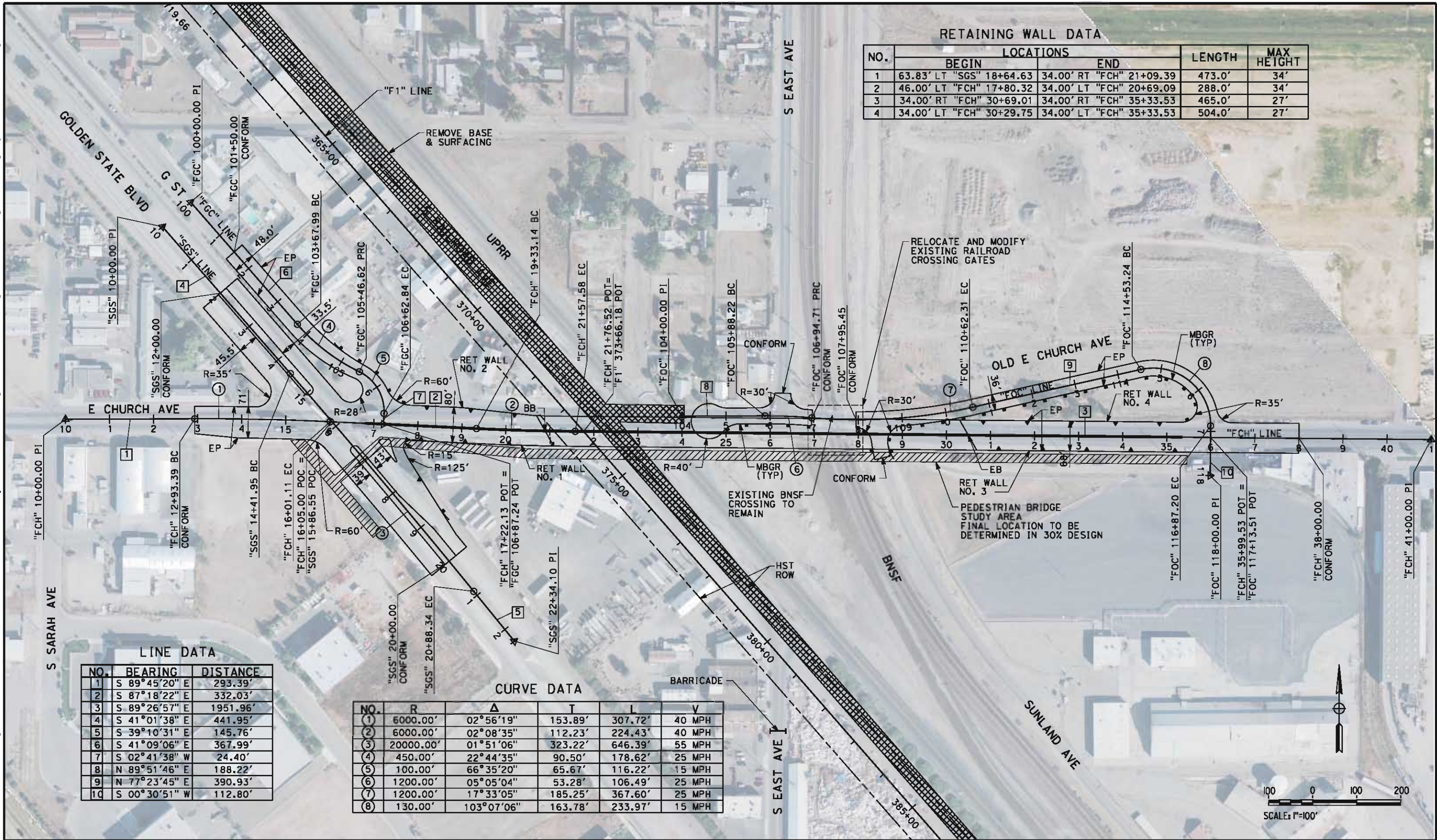
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION LAYOUT
VENTURA ST (UNDERPASS)**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1020
SCALE	AS SHOWN
SHEET NO.	7 OF 32

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RETAINING WALL DATA					
NO.	LOCATIONS		LENGTH	MAX HEIGHT	
	BEGIN	END			
1	63.83' LT "SGS" 18+64.63	34.00' RT "FCH" 21+09.39	473.0'	34'	
2	46.00' LT "FCH" 17+80.32	34.00' LT "FCH" 20+69.09	288.0'	34'	
3	34.00' RT "FCH" 30+69.01	34.00' RT "FCH" 35+33.53	465.0'	27'	
4	34.00' LT "FCH" 30+29.75	34.00' LT "FCH" 35+33.53	504.0'	27'	

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°45'20" E	293.39'
2	S 87°18'22" E	332.03'
3	S 89°26'57" E	1951.96'
4	S 41°01'38" E	441.95'
5	S 39°10'31" E	145.76'
6	S 41°09'06" E	367.99'
7	S 02°41'38" W	24.40'
8	N 89°51'46" E	188.22'
9	N 77°23'45" E	390.93'
10	S 00°30'51" W	112.80'

CURVE DATA

NO.	R	Δ	T	L	V
①	6000.00'	02°56'19"	153.89'	307.72'	40 MPH
②	6000.00'	02°08'35"	112.23'	224.43'	40 MPH
③	20000.00'	01°51'06"	323.22'	646.39'	55 MPH
④	450.00'	22°44'35"	90.50'	178.62'	25 MPH
⑤	100.00'	66°35'20"	65.67'	116.22'	15 MPH
⑥	1200.00'	05°05'04"	53.28'	106.49'	25 MPH
⑦	1200.00'	17°33'05"	185.25'	367.60'	25 MPH
⑧	130.00'	103°07'06"	163.78'	233.97'	15 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

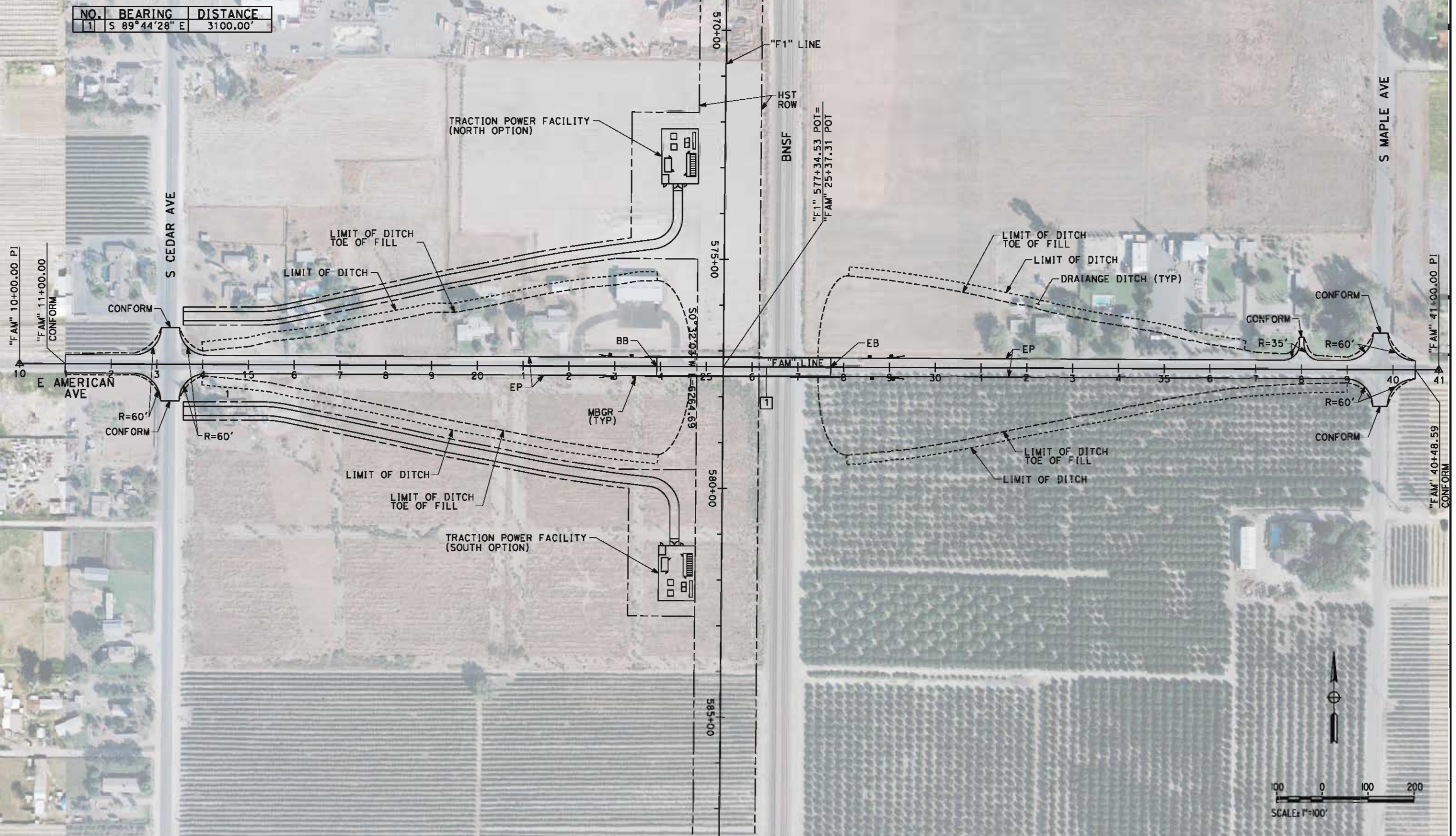
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION LAYOUT
E CHURCH AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1021
SCALE AS SHOWN
SHEET NO. 8 OF 32

REV	DATE	BY	CHK	APP	DESCRIPTION



CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1025
SCALE	AS SHOWN
SHEET NO.	9 OF 32

[illegible]

DESIGNED BY	J. MONG
DRAWN BY	E. SUDHAUSEN
CHECKED BY	M. BAMM
IN CHARGE	R. COFFIN
DATE	05/18/12

**RECORD SET 15X
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

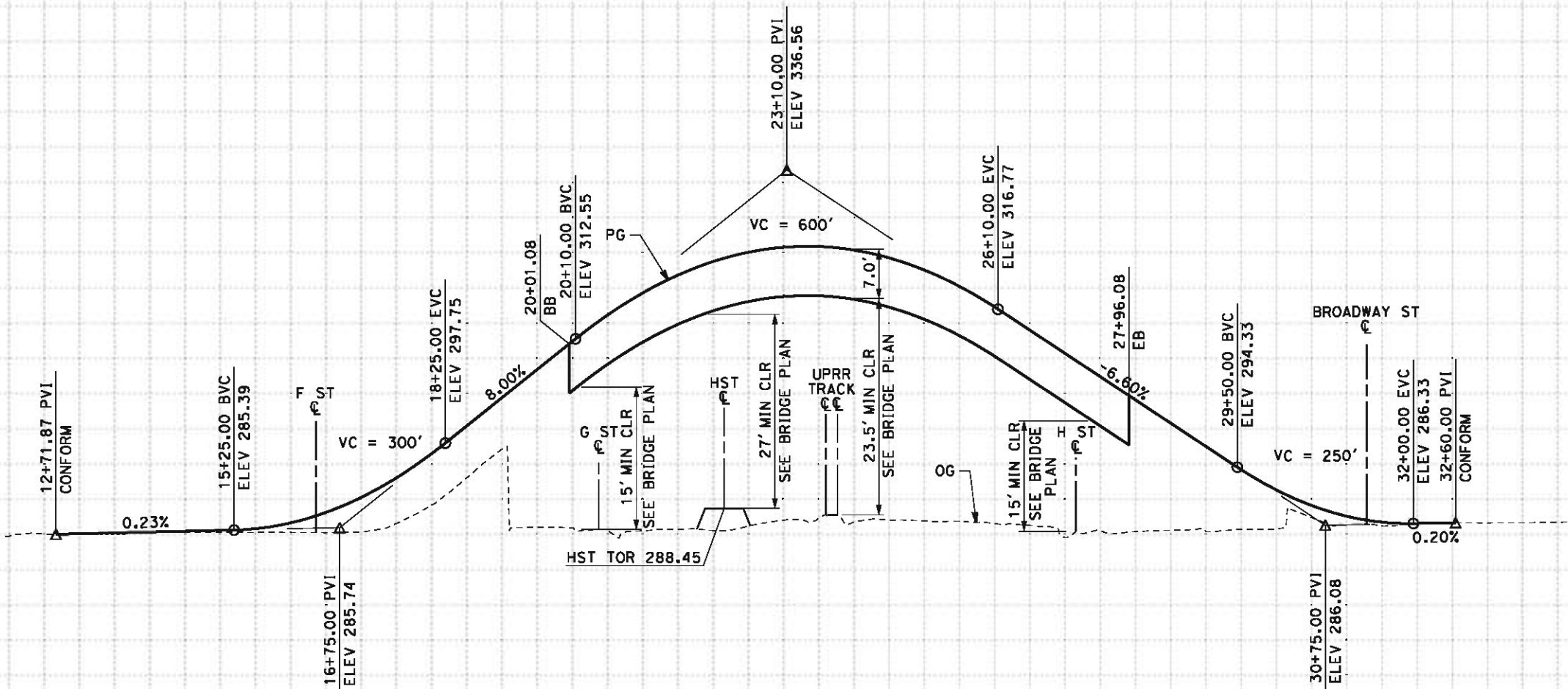
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION LAYOUT
E AMERICAN AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1028
SCALE	AS SHOWN
SHEET NO.	10 OF 32

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NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL.
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 15' FROM ROAD SURFACE.
4. VERTICAL DESIGN SPEED = 30 MPH



PROFILE
"STN" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

2012 2013	STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	TOTAL
	CY	Exc																											
		Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

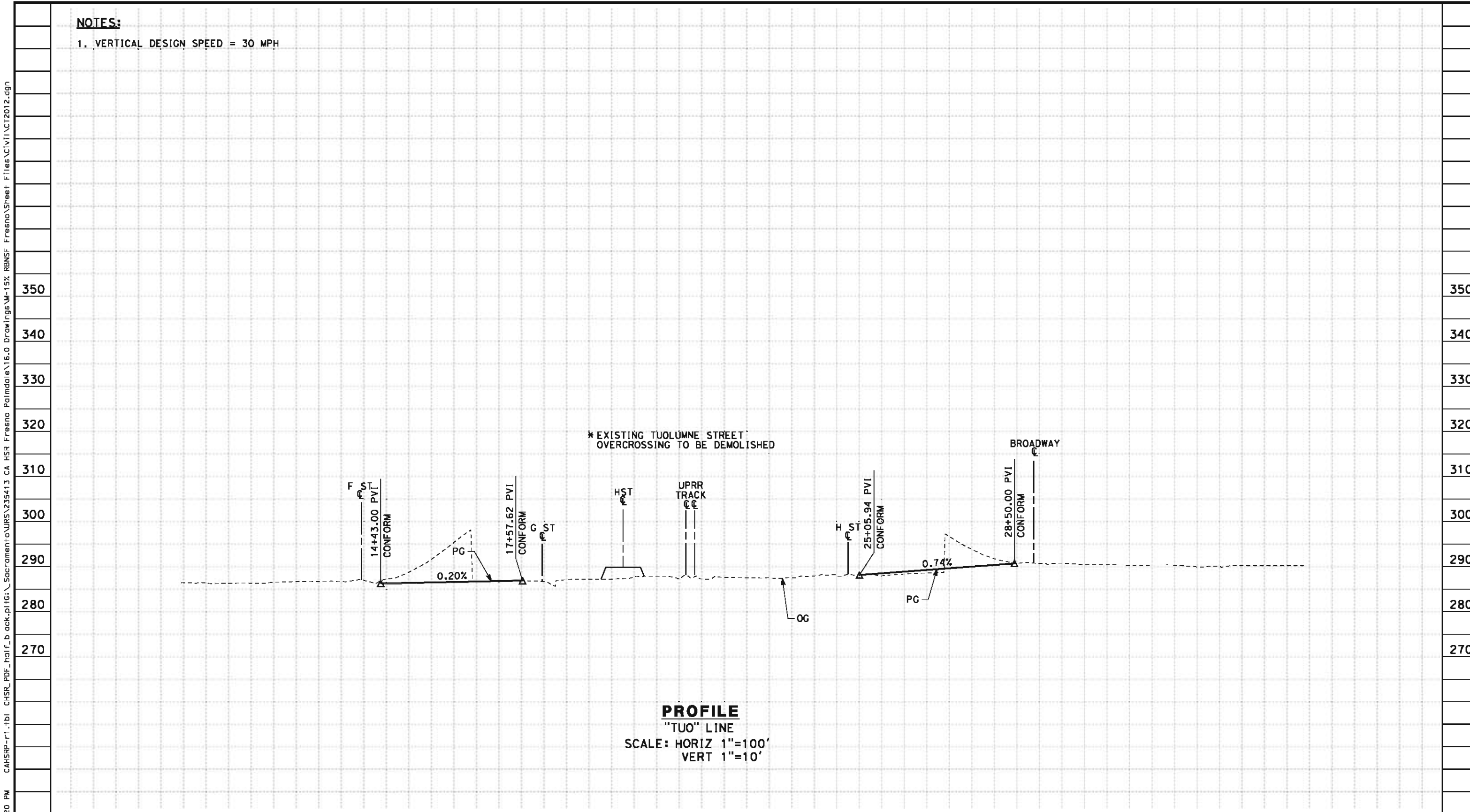


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
STANISLAUS ST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2011
SCALE
AS SHOWN
SHEET NO.
11 OF 32

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NOTES:
1. VERTICAL DESIGN SPEED = 30 MPH



2012 2:39:12	STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	TOTAL
	CY	Exc																						
		Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

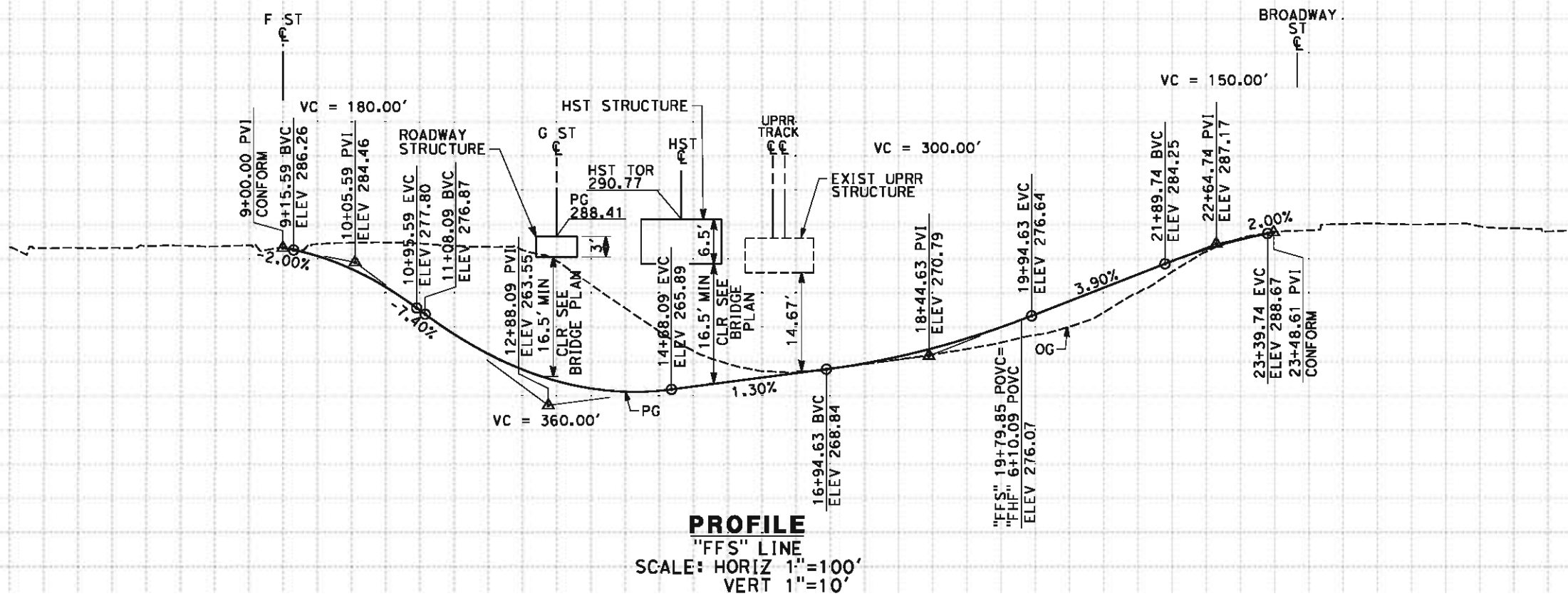


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
TUOLUMNE ST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2012
SCALE
AS SHOWN
SHEET NO.
12 OF 32

eron.sudhausen 5/17/2012 7:53:09 PM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\F1\FB-CT-2013-F1.dgn

- NOTES:
- 1. VERTICAL CLEARANCE FOR FRESNO STREET UNDERPASS TO MATCH EXISTING CONDITION
 - 2. VERTICAL DESIGN SPEED = 30 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	TOTAL
CY	Exc																								
	Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

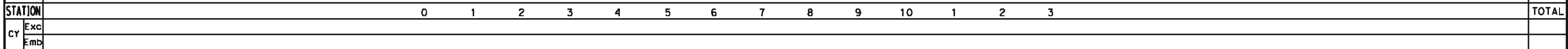
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
FRESNO ST

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2013
SCALE AS SHOWN
SHEET NO. 13 OF 32

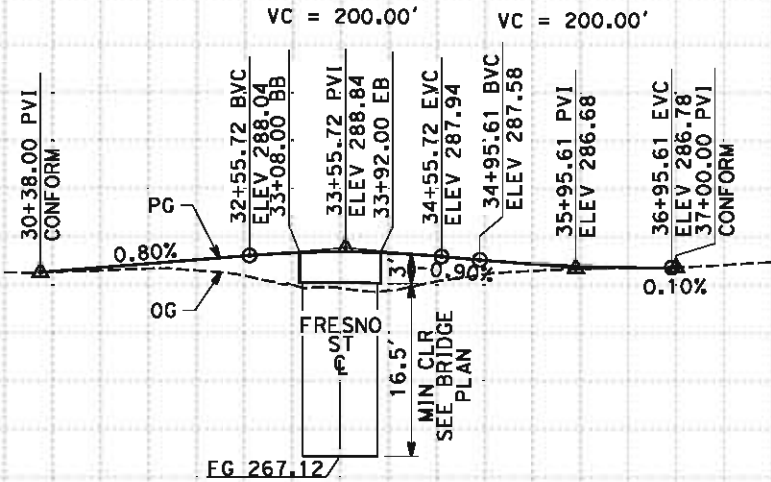
1. VERTICAL DESIGN SPEED = 30 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
3. REFER TO SHEET CT1013 FOR LAYOUT



						DESIGNED BY K. MING	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 GRADE SEPARATION PROFILE H ST (FRESNO ST)	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN					DRAWING NO. CT2014
						CHECKED BY M. BAMM					SCALE AS SHOWN
						IN CHARGE R. COFFIN					SHEET NO. 14 OF 32
						DATE 05/18/12					
REV	DATE	BY	CHK	APP	DESCRIPTION						

eron.sudhausen 5/17/2012 7:53:11 PM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Design Sheets\Highway\F1\FB-CT-2015-F1.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
 - 2. VERTICAL DESIGN SPEED = 40 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 4. REFER TO SHEET CT1013 FOR LAYOUT



PROFILE
"FGF" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		30	1	2	3	4	35	6	7	8	TOTAL
CY	Exc										
	Emb										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
G ST (FRESNO ST)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2015
SCALE
AS SHOWN
SHEET NO.
15 OF 32

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 15' FROM ROAD SURFACE
4. VERTICAL DESIGN SPEED = 30 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM

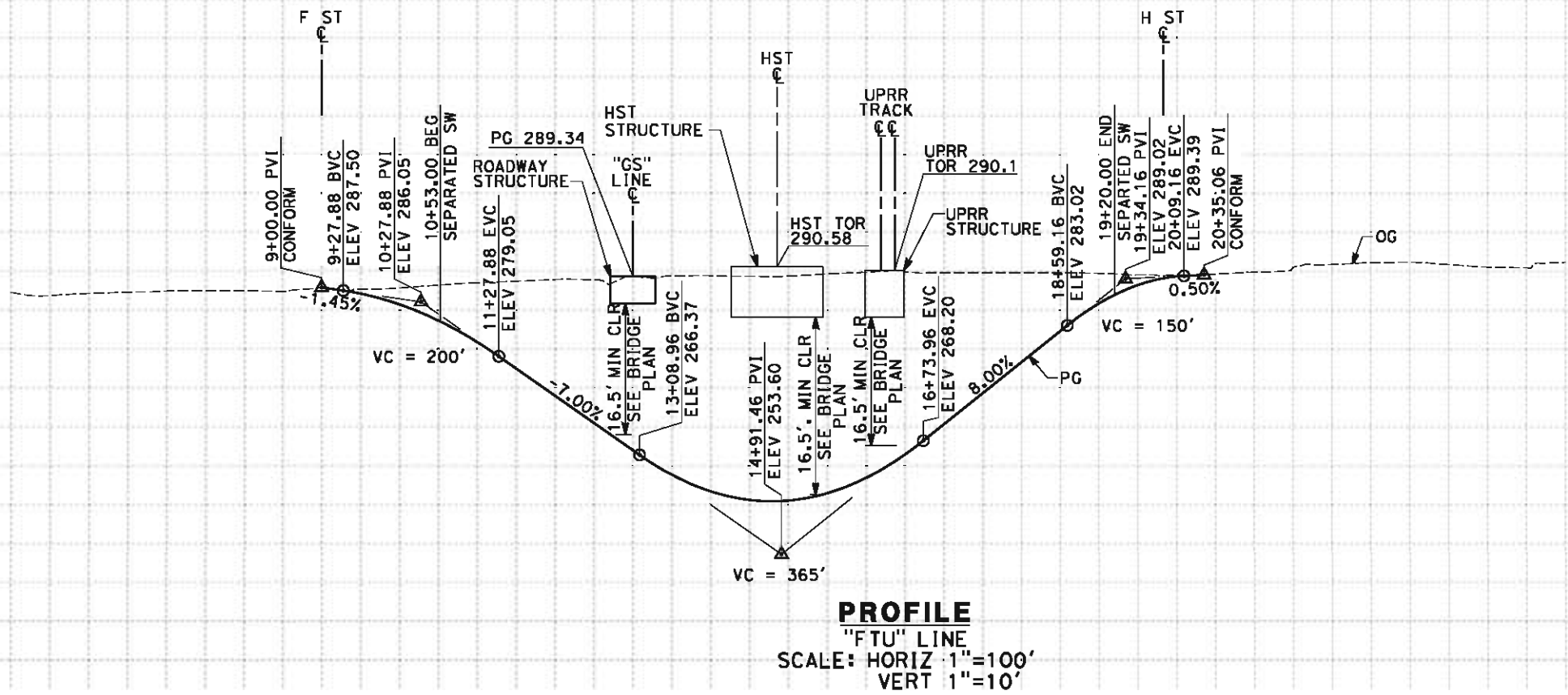


						DESIGNED BY K. MING	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 GRADE SEPARATION PROFILE TULARE ST (OVERHEAD)	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN				DRAWING NO. CT2016
						CHECKED BY M. BAMM				SCALE AS SHOWN
						IN CHARGE R. COFFIN				SHEET NO. 16 OF 32
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12				

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2016
SCALE	AS SHOWN
SHEET NO.	16 OF 32

eron.sudhausen 5/17/2012 7:53:13 PM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\F1\FB-CT-2017-F1.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE
 - 2. VERTICAL DESIGN SPEED = 25 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Exc																						
Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
TULARE ST (UNDERPASS)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2017
SCALE AS SHOWN
SHEET NO. 17 OF 32

1. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
2. VERTICAL DESIGN SPEED = 40 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
4. REFER TO SHEET CT1017 FOR LAYOUT

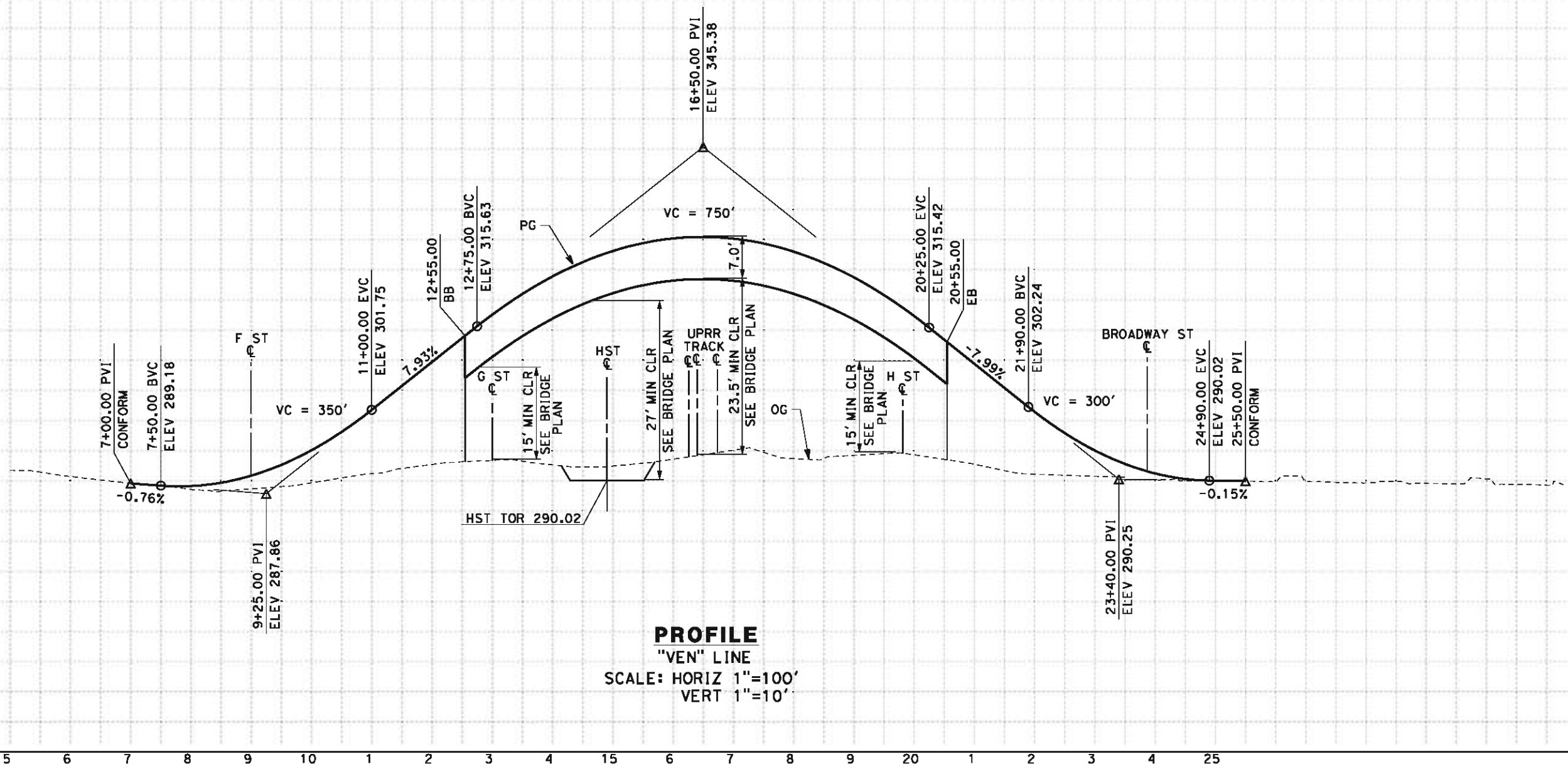
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						DESIGNED BY K. MING DRAWN BY E. SUDHAUSEN CHECKED BY M. BAMM IN CHARGE R. COFFIN DATE 05/18/12	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 GRADE SEPARATION PROFILE G ST (TULARE ST UNDERPASS)	CONTRACT NO. HSR 06-0003 DRAWING NO. CT2018 SCALE AS SHOWN SHEET NO. 18 OF 32
REV	DATE	BY	CHK	APP	DESCRIPTION					

5/11/2012 2:21:43 PM CAHSR-r1.tbl CHSR_PDF_half_black.plt G:\Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\W-15% RBNSE Fresno\Sheet Files\Civil\CT2019.dgn

NOTES:

- 1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
- 2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
- 3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 15' FROM ROAD SURFACE
- 4. VERTICAL DESIGN SPEED = 30 MPH



PROFILE
"VEN" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	TOTAL
CY	Exc																						
	Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
M. BMM
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
VENTURA ST (OVERHEAD)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2019
SCALE
AS SHOWN
SHEET NO.
19 OF 32


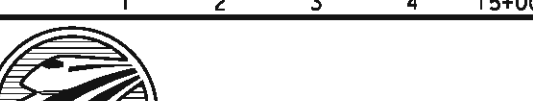
1. MINIMUM VERTICAL CLEARANCE UNDER HST IS 16.5' FROM BOTTOM OF STRUCTURE
2. MINIMUM VERTICAL CLEARANCE UNDER UPRR IS 16.5' FROM BOTTOM OF STRUCTURE
3. MINIMUM VERTICAL CLEARANCE UNDER LOCAL STREET IS 16.5' FROM BOTTOM OF STRUCTURE
4. VERTICAL DESIGN SPEED = 25 MPH (AASHTO)



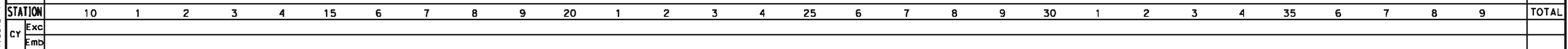
STATION																											TOTAL
CY	Exc																										
	Emb	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25					



1. MINIMUM VERTICAL CLEARANCE UNDER LOCAL STREET IS 16.5' FROM BOTTOM OF STRUCTURE
2. VERTICAL DESIGN SPEED = 30 MPH



STATION										TOTAL									
CY										TOTAL									
Exc										Exc									
Emb										Emb									
10+00 1 2 3 4 15+00 6 7 8 9										1 2 3 4 15+00 6 7 8 9 20+00 1 2									
DESIGNED BY J. NETTLETON										RECORD SET 15% DESIGN SUBMISSION									
DRAWN BY V. ORTEGA										NOT FOR CONSTRUCTION									
CHECKED BY B. RAWSON																			
IN CHARGE O. EARLE																			
DATE 05/18/12										CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 GRADE SEPARATION PROFILE G ST & H ST (VENTURA ST UNDERPASS)									
CONTRACT NO. HSR 06-0003										DRAWING NO. CT2029									
SCALE AS SHOWN										SHEET NO. 21 OF 32									
REV	DATE	BY	CHK	APP	DESCRIPTION														

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL
4. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
5. VERTICAL DESIGN SPEED = 40 MPH
6. OG IS BASED UPON APPROXIMATED INTERMAP DTM



						DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 GRADE SEPARATION PROFILE E CHURCH AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN				DRAWING NO. CT2021
						CHECKED BY M. BAMB				SCALE AS SHOWN
						IN CHARGE R. COFFIN				SHEET NO. 22 OF 32
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12				

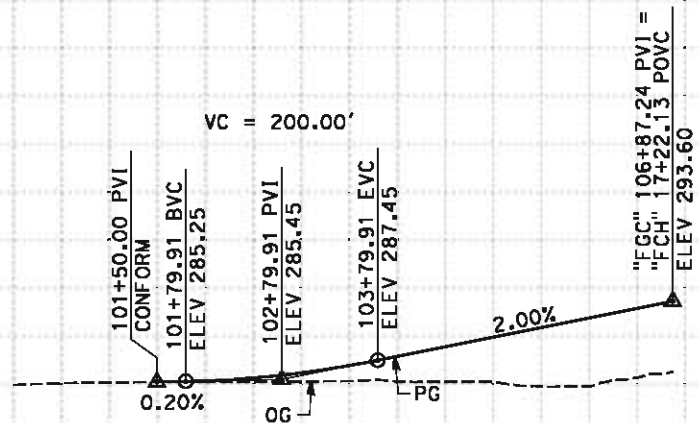
eron, sudhausen 5/17/2012 7:53:16 PM \\global\\america\\os\\jobs\\S-F\\131000\\131577\\4 Internal Project Data\\4-03 Drawings\\4-03-02-05 Design Sheets\\Highway\\F1\\B-CT-2021-F1.dgn

eron.sudhausen 5/17/2012 7:53:16 PM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Design Sheets\Highway\F1\FB-CT-2022-F1.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 25 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. REFER TO SHEET CT1020 FOR LAYOUT

350
340
330
320
310
300
290
280
270

350
340
330
320
310
300
290
280
270



PROFILE

"FGC" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		100	1	2	3	4	105	6	7	8	TOTAL
CY	Exc										
	Emb										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



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

FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
G ST (E CHURCH AVE)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2022
SCALE AS SHOWN
SHEET NO. 23 OF 32

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- NOTES:
- 1. VERTICAL DESIGN SPEED = 25 MPH & 15 MPH AT INTERSECTION
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. REFER TO SHEET CT1020 FOR LAYOUT

350

340

330

320

310

300

290

280

270

STATION

CY Exc
Emb

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

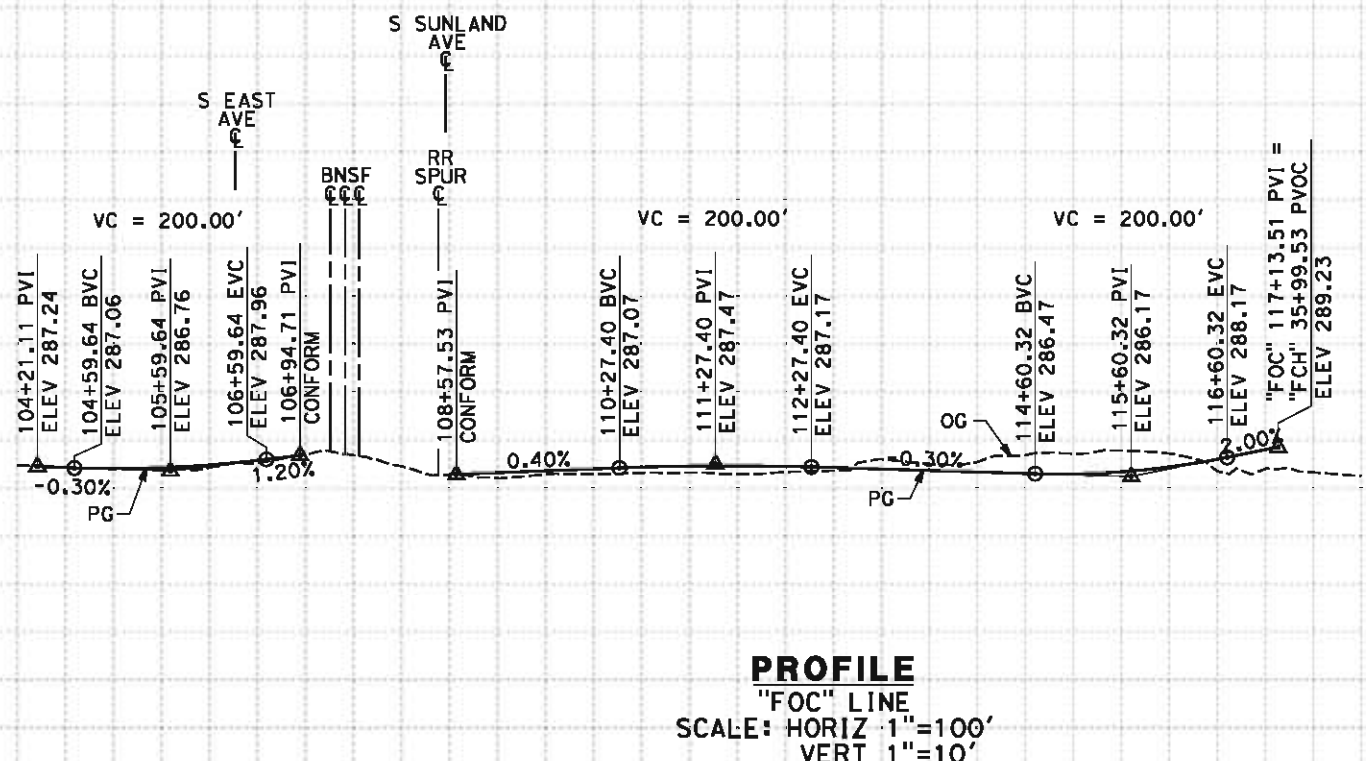
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
OLD E CHURCH AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2023
SCALE AS SHOWN
SHEET NO. 24 OF 32



350

340

330

320

310

300

290

280

270

TOTAL

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- NOTES:
- 1. VERTICAL DESIGN SPEED = 50 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. REFER TO SHEET CT1021 FOR LAYOUT

340

330

320

310

300

290

280

270

340

330

320

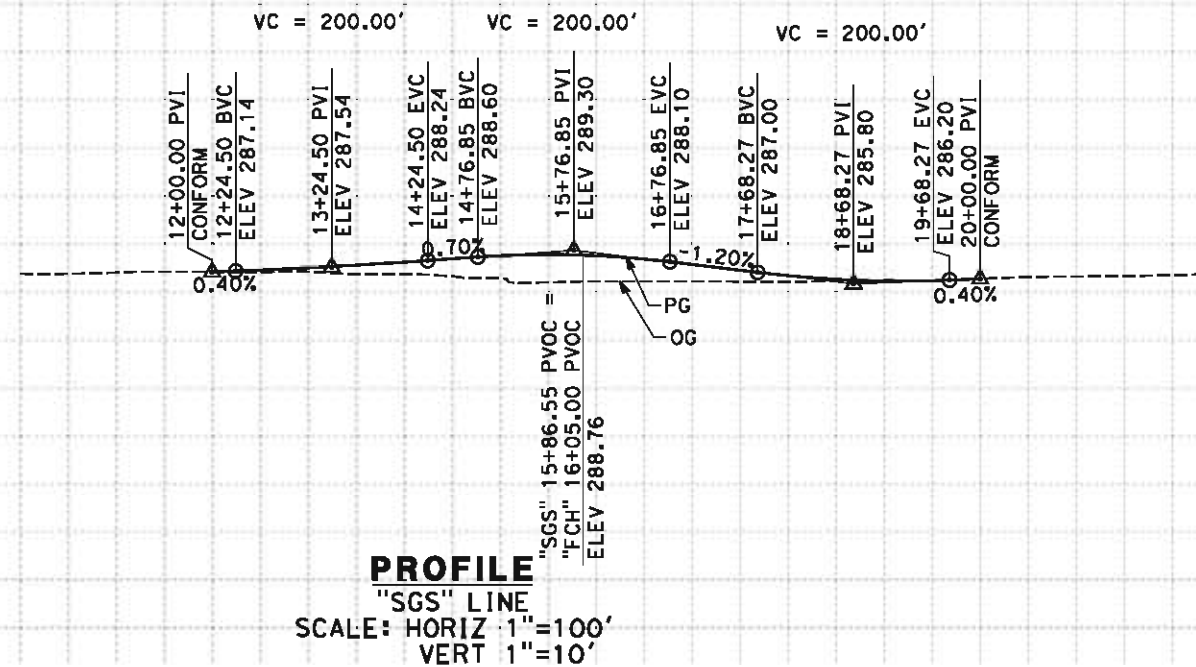
310

300

290

280

270



STATION

10 1 2 3 4 15 6 7 8 9 20

TOTAL

CY Exc
 Emb

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG

DRAWN BY
E. SUDHAUSEN

CHECKED BY
M. BMM

IN CHARGE
R. COFFIN

DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



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

FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
S GOLDEN STATE BLVD

CONTRACT NO.
HSR 06-0003

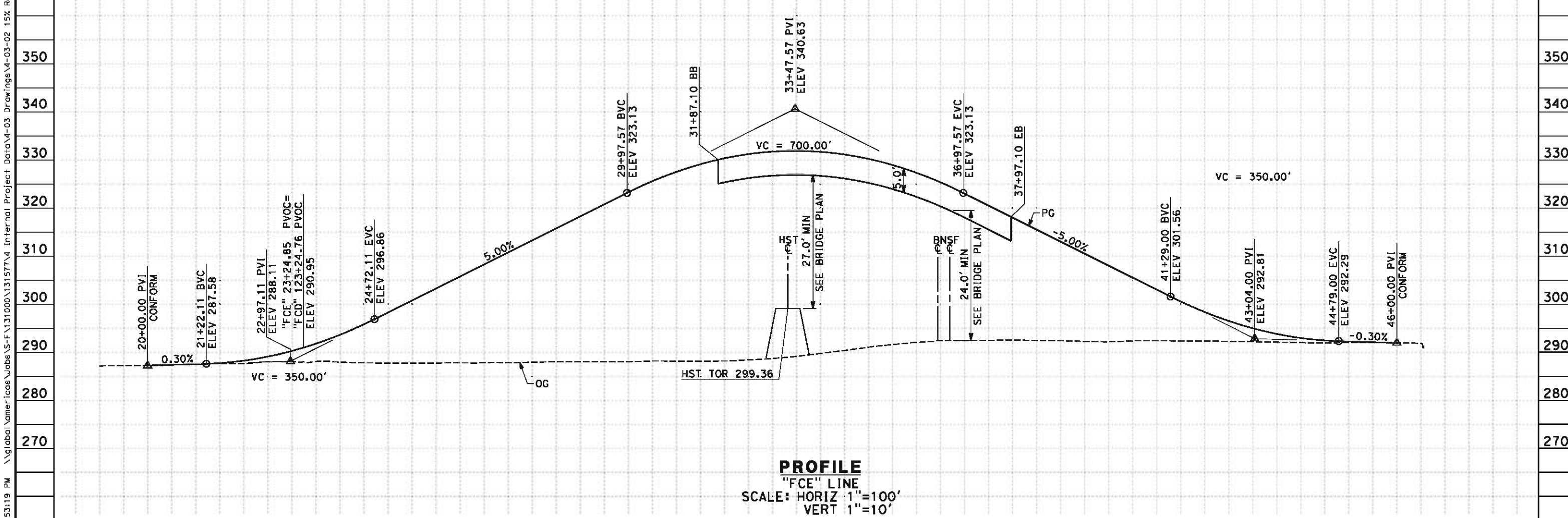
DRAWING NO.
CT2024

SCALE
AS SHOWN

SHEET NO.
25 OF 32

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- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
 - 3. VERTICAL DESIGN SPEED = 35 MPH
 - 4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



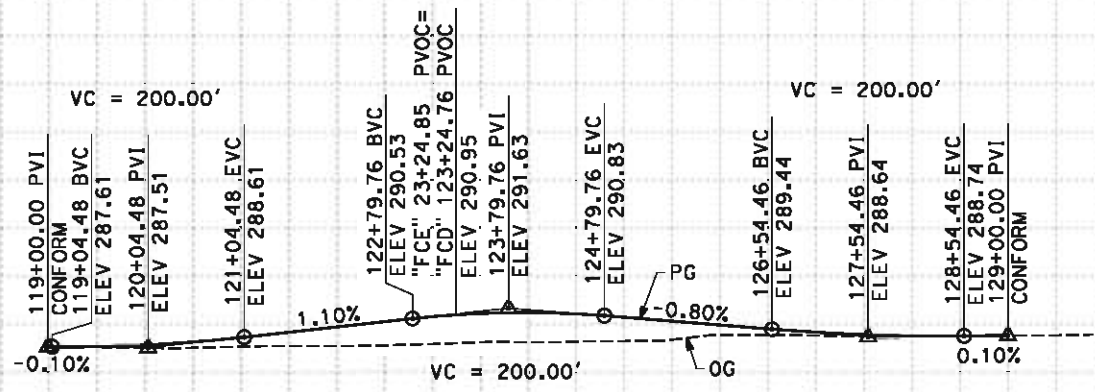
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
E CENTRAL AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2025
SCALE
AS SHOWN
SHEET NO.
26 OF 32

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- NOTES:
- 1. VERTICAL DESIGN SPEED = 45 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. REFER TO SHEET CT1025 FOR LAYOUT

340
330
320
310
300
290
280
270



PROFILE
"FCD" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	6	7	8	9	120	1	2	3	4	125	6	7	8	9	130	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



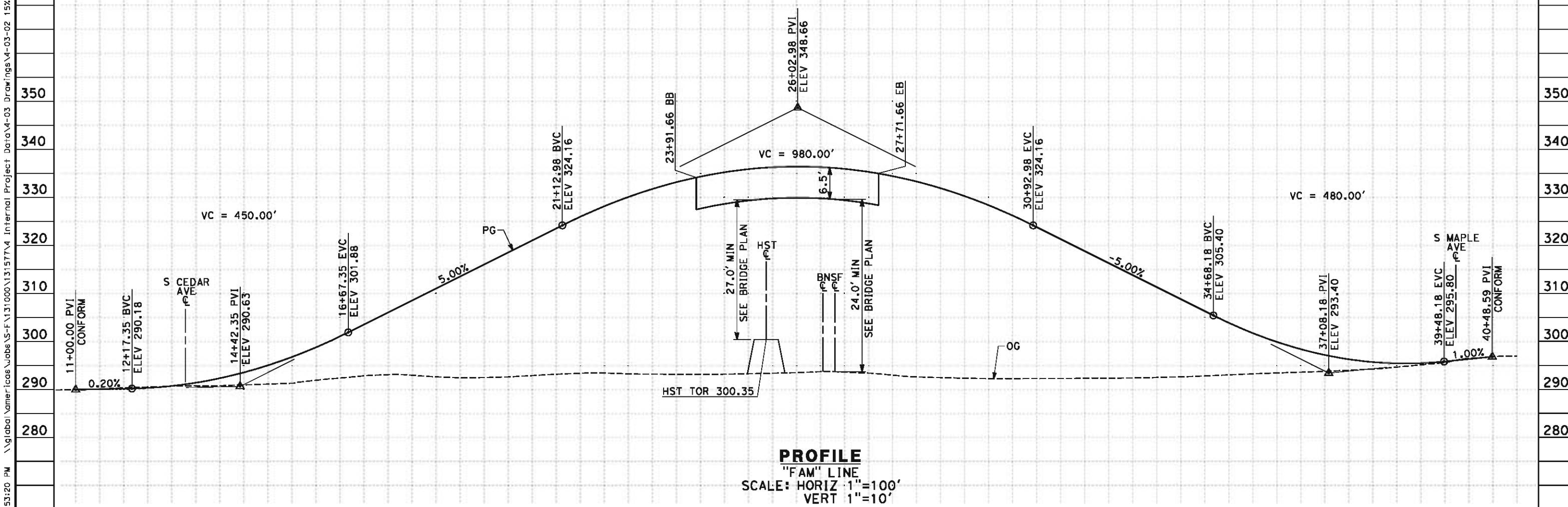
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
S CEDAR AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2027
SCALE AS SHOWN
SHEET NO. 27 OF 32

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- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
 - 3. VERTICAL DESIGN SPEED = 45 MPH
 - 4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	TOTAL
Exc																																
Emb																																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

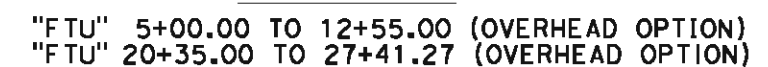


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEPARATION PROFILE
E AMERICAN AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2028
SCALE
AS SHOWN
SHEET NO.
28 OF 32

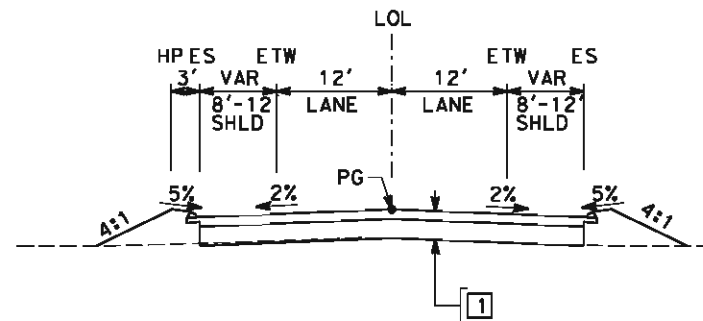
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2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.
3. PEDESTRIAN FACILITIES WILL BE DESIGNED TO COMPLY WITH ADA REQUIREMENTS.

1-0.50' HMA (TYPE A)
1.50' CL2 AB

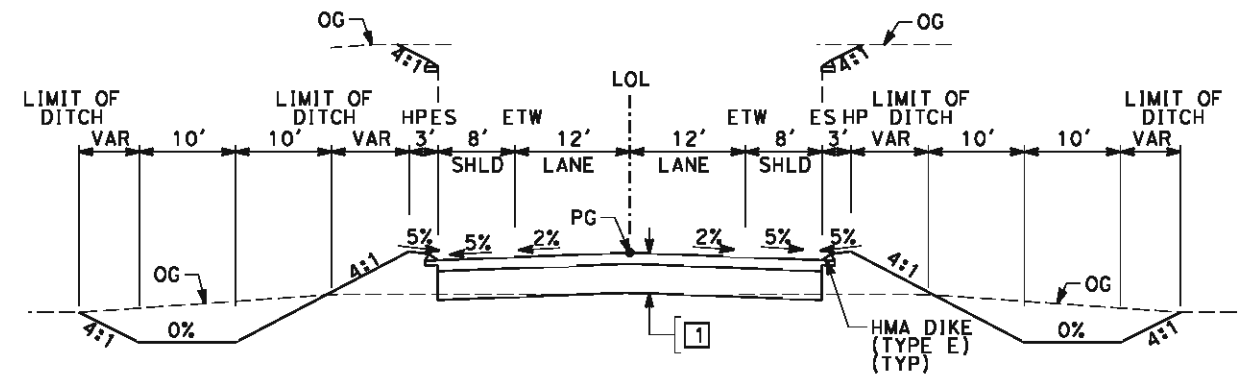


CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT3001
SCALE	NO SCALE
SHEET NO.	29 OF 32

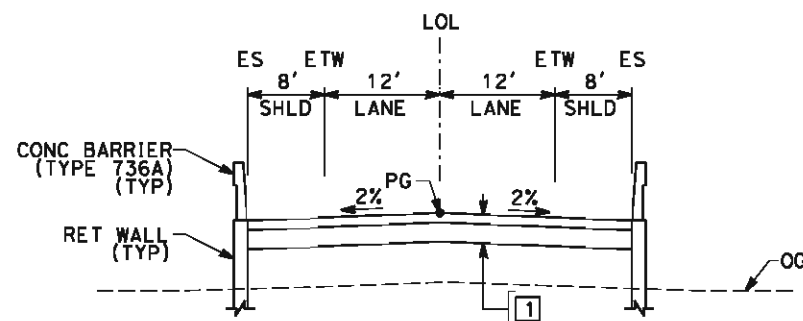
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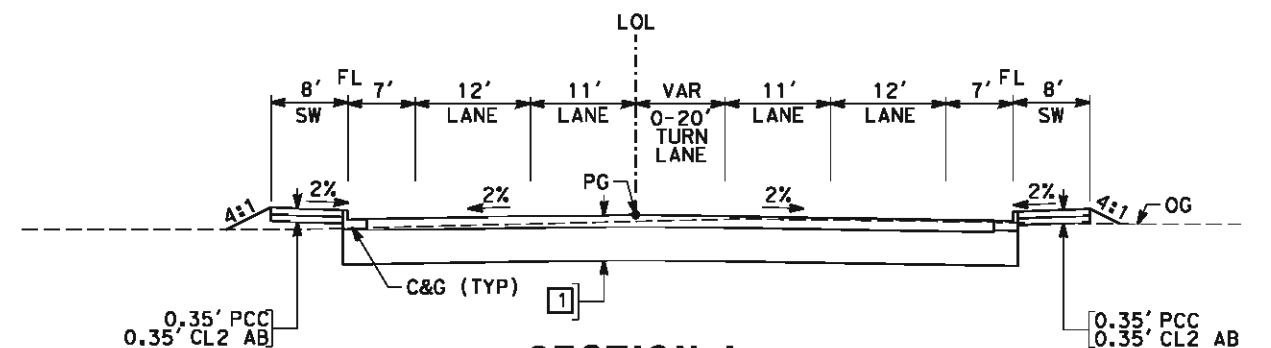
SECTION I
"FGC" 101+50.00 TO 106+87.24



SECTION K
"FAM" 11+00.00 TO 23+91.66
"FAM" 27+71.66 TO 40+48.59



SECTION J
"FCE" 24+06.53 TO 31+87.10
"FCE" 37+97.10 TO 44+00.00



SECTION L
"FGF" 30+38.00 TO 33+08.00
"FGF" 33+92.00 TO 37+00.00
"FGF" 41+15.14 TO 42+60.11
"FGF" 43+17.11 TO 44+65.14

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

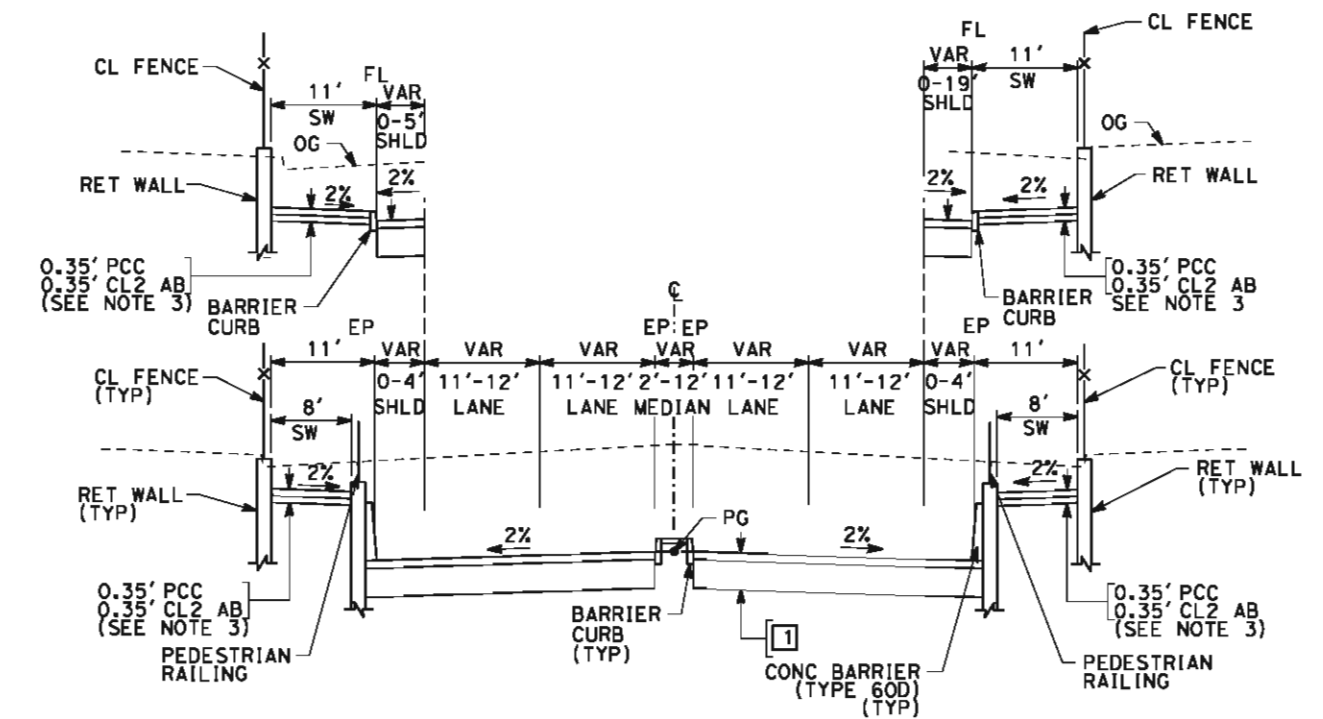
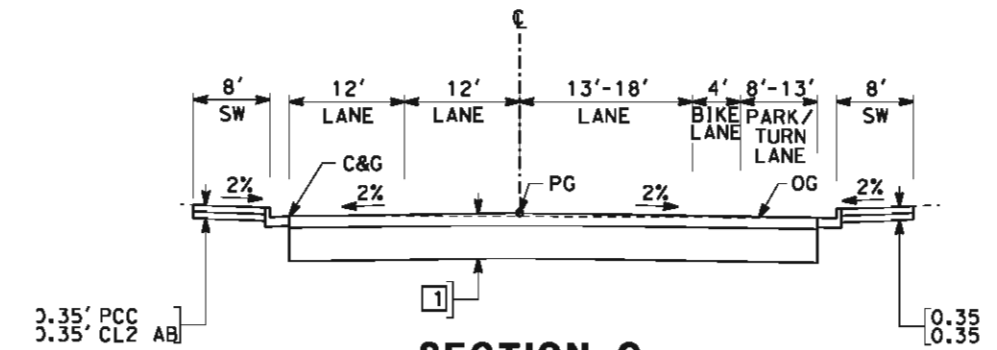
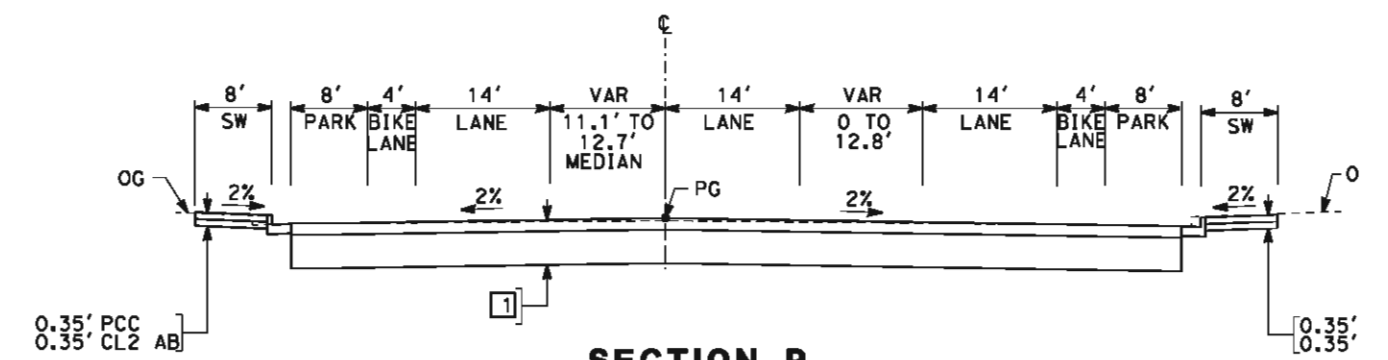
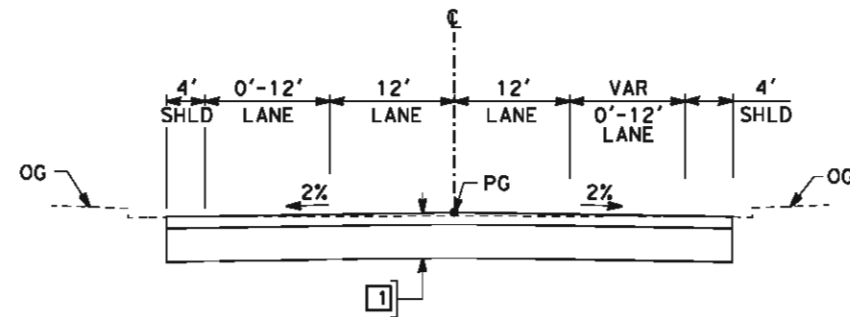
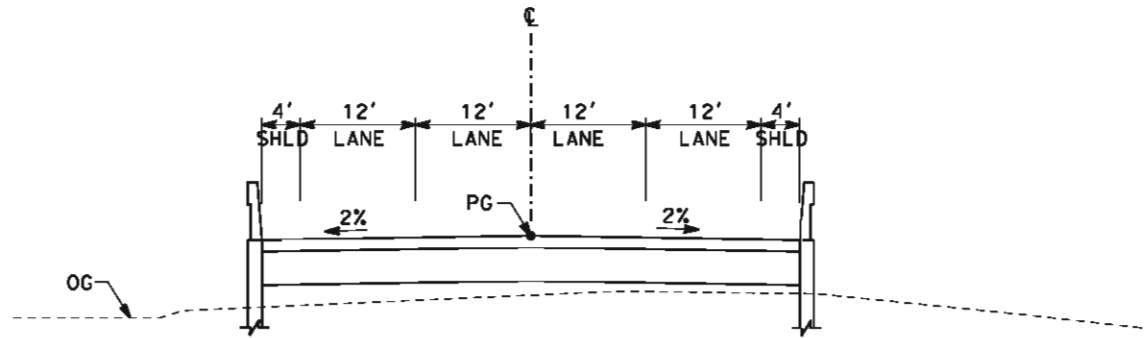
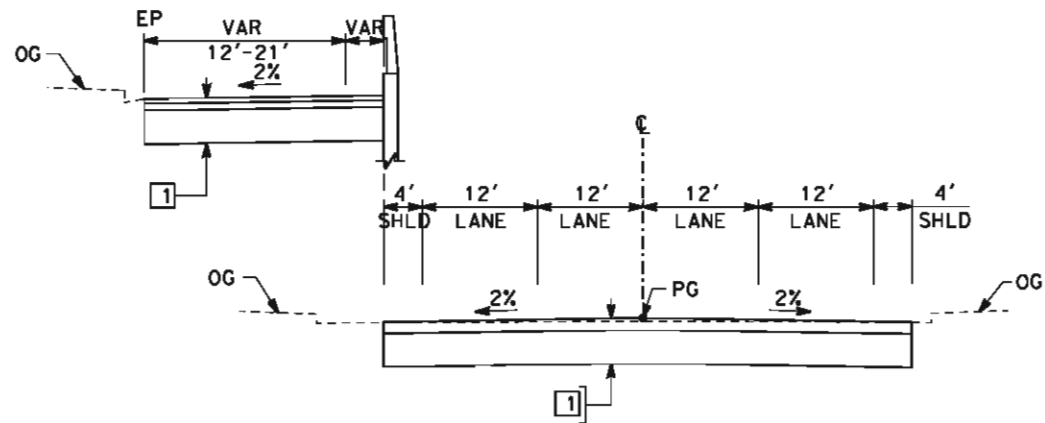
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NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3003
SCALE NO SCALE
SHEET NO. 31 OF 32

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

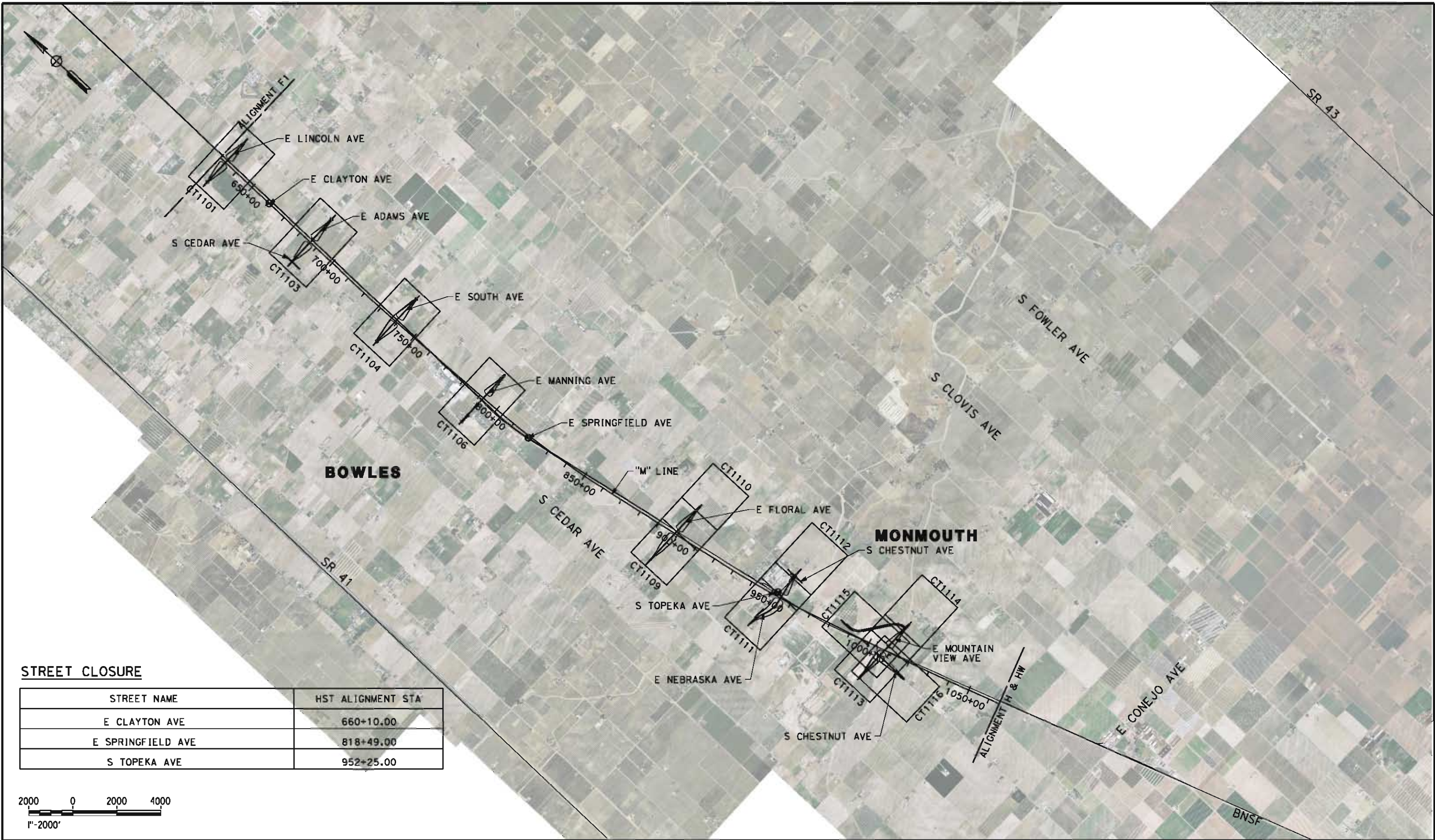
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

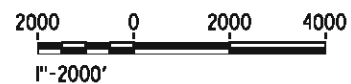
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3004
SCALE
AS SHOWN
SHEET NO.
32 OF 32

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STREET CLOSURE

STREET NAME	HST ALIGNMENT STA
E CLAYTON AVE	660+10.00
E SPRINGFIELD AVE	818+49.00
S TOPEKA AVE	952+25.00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

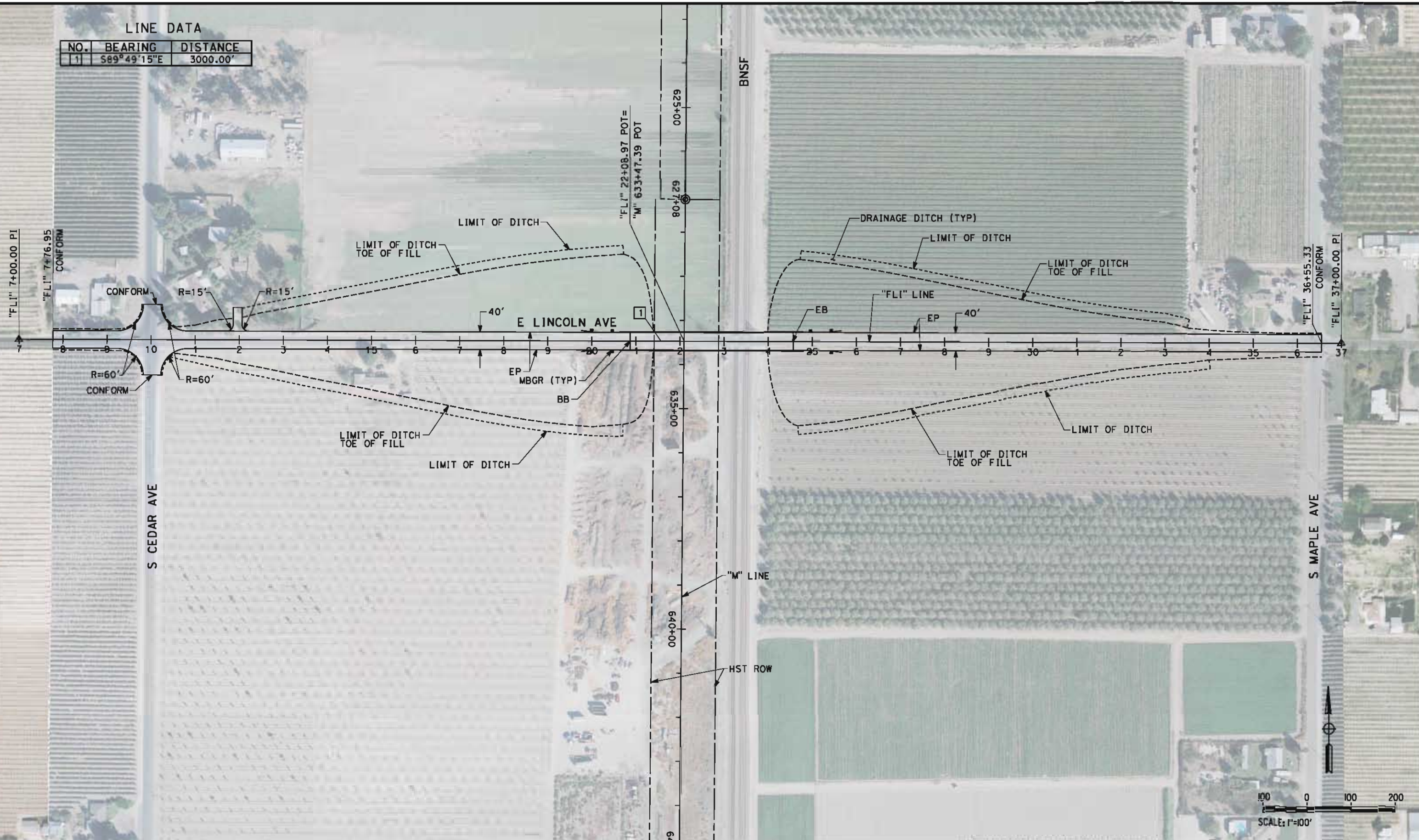
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
MONMOUTH SUBSECTION
ALIGNMENT M
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0050
SCALE AS SHOWN
SHEET NO. 1 OF 29

eron.sudhausen 5/17/2012 8:02:01 PM \\global\america\cas\labs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\MNF-C\1101-M.dgn

LINE DATA

NO.	BEARING	DISTANCE
11	S89°49'15"E	3000.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BANN
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

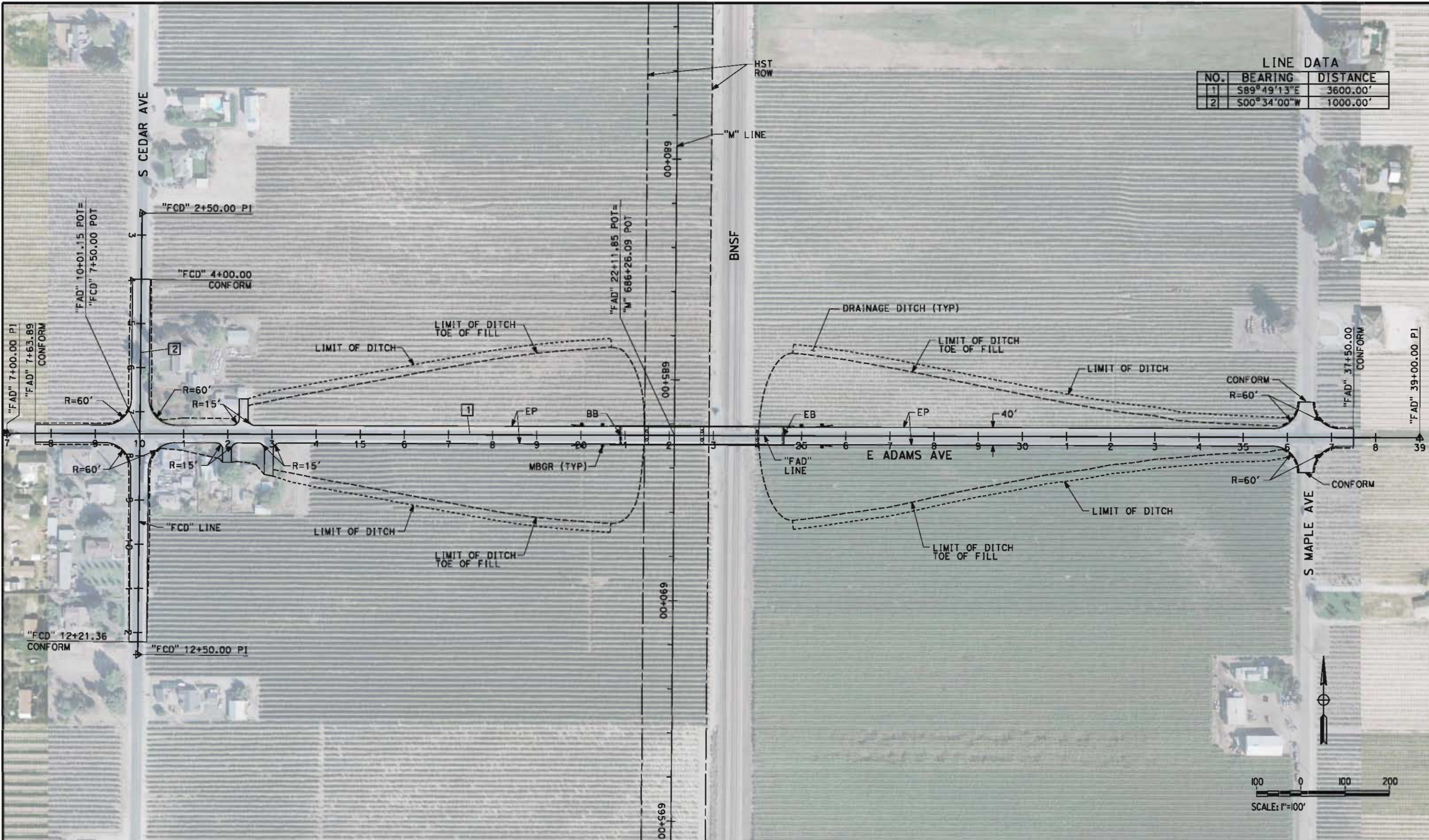


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E LINCOLN AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1101
SCALE AS SHOWN
SHEET NO. 2 OF 29

\\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\MFB-CT-1103-M.dgn 5/17/2012 8:02:09 PM



						DESIGNED BY K. MING	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 CALIFORNIA HIGH-SPEED TRAIN	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD MONMOUTH SUBSECTION ALIGNMENT M GRADE SEPARATION LAYOUT E ADAMS AVE		CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN	DRAWING NO. CT1103						
					CHECKED BY M. BMM	SCALE AS SHOWN						
					IN CHARGE R. COFFIN	SHEET NO. 3 OF 29						
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12						

						DESIGNED BY K. MING	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD MONMOUTH SUBSECTION ALIGNMENT M GRADE SEPARATION LAYOUT E SOUTH AVE	CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN	DRAWING NO. CT1104				
					CHECKED BY M. BMM	SCALE AS SHOWN				
					IN CHARGE R. COFFIN	SHEET NO. 4 OF 29				
					DATE 05/18/12					
REV	DATE	BY	CHK	APP	DESCRIPTION					

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	20.00' RT 11+00.00	20.00' RT 15+35.77	436'	32'
2	20.00' LT 11+00.00	20.00' LT 15+35.77	436'	32'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BANN
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15X
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**



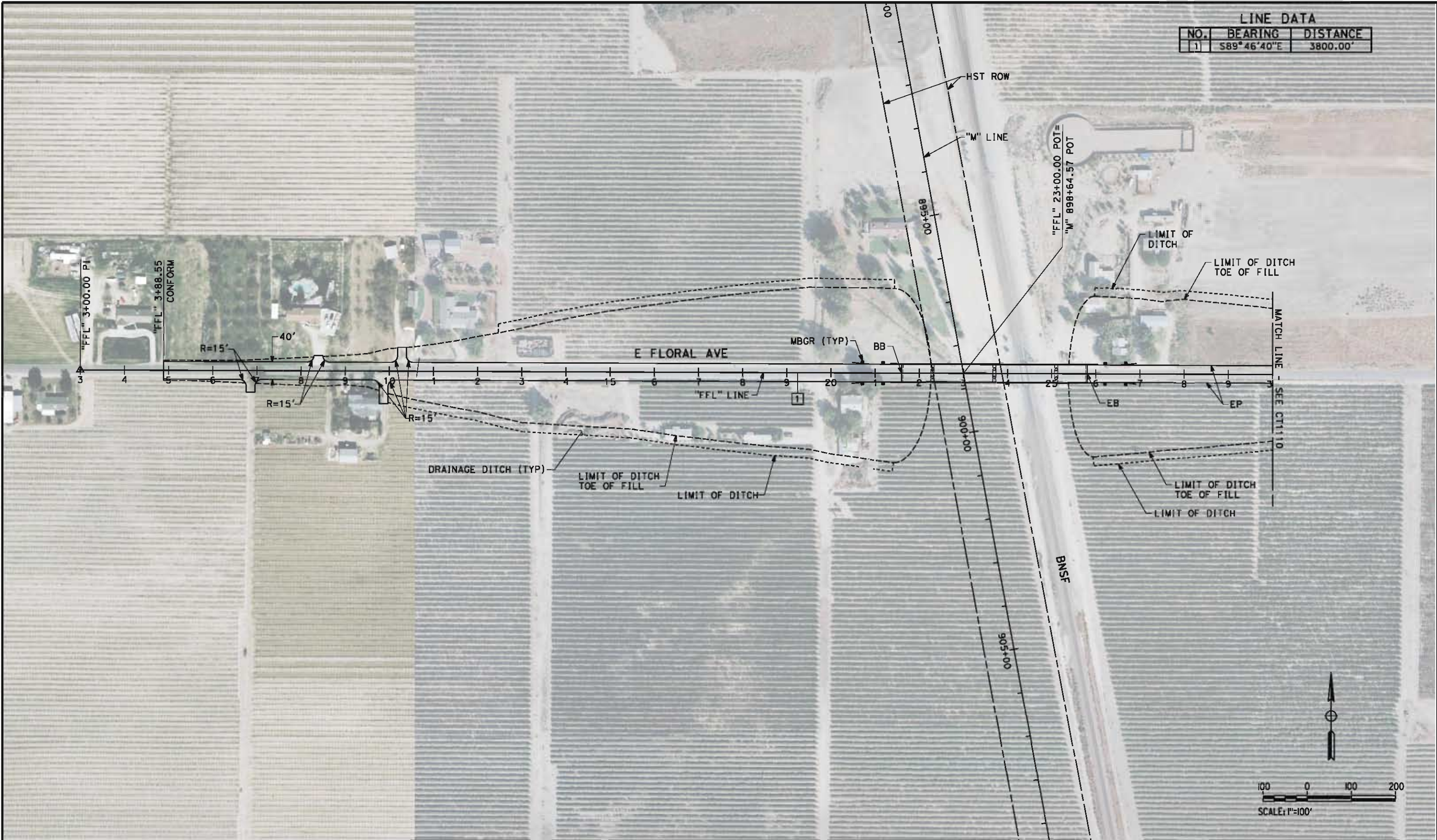
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E MANNING AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1106
SCALE	AS SHOWN
SHEET NO.	5 OF 29

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LINE DATA		
NO.	BEARING	DISTANCE
1	S89°46'40"E	3800.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

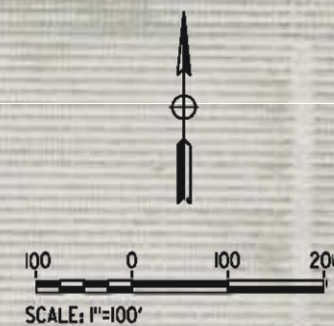
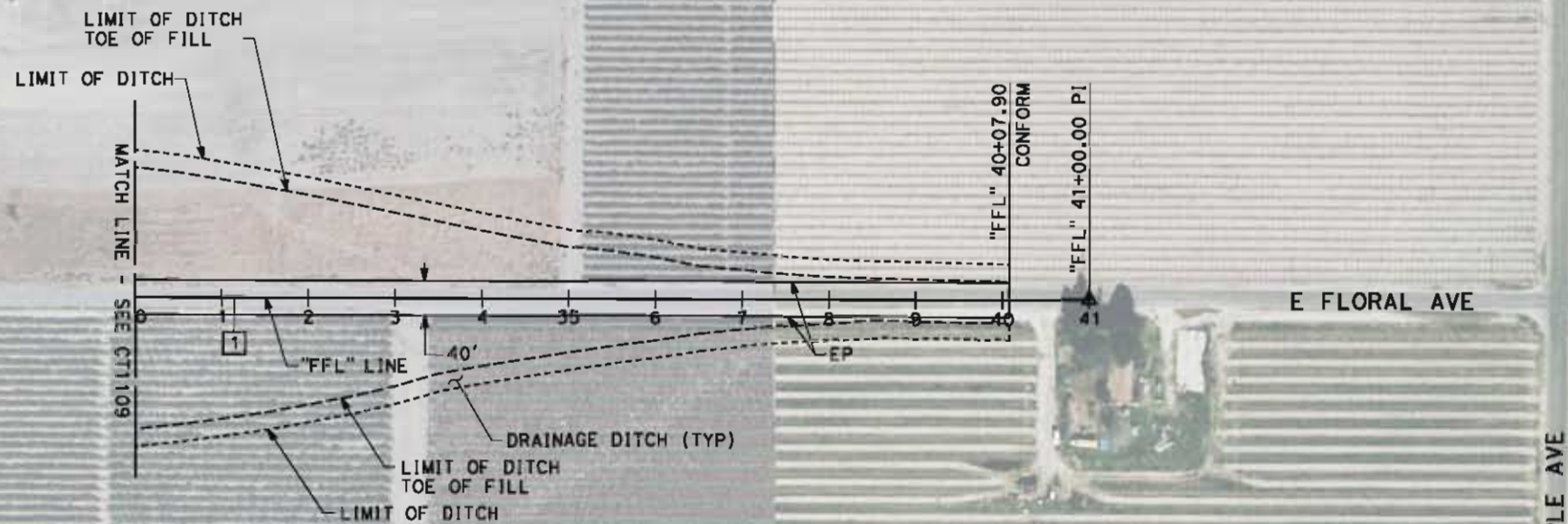


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E FLORAL AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1109
SCALE AS SHOWN
SHEET NO. 6 OF 29

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°46'40"E	3800.00'



REV	DATE	BY	CHE	APP	DESCRIPTION

DESIGNED BY	K. MING
DRAWN BY	E. SUDHAUSEN
CHECKED BY	M. BAMM
IN CHARGE	R. COFFIN
DATE	05/18/12

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



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E FLORAL AVE**

CONTRACT NO.	HST 06-0003
DRAWING NO.	CT1110
SCALE	AS SHOWN
SHEET NO.	7 OF 29

eron.sudhausen 5/18/2012 9:22:02 AM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\WB-B-CT-1111-M.dgn

"FNE" 12+00.00 PI
"FNE" 12+50.00 CONFORM
"FNE" 13+00.00 BC
E NEBRASKA AVE
1

R=30'
R=15'

20' ACCESS ROAD

CONFORM

LIMIT OF DITCH

LIMIT OF DITCH TOE OF FILL

STREET BARRICADE

EP

BB

"FNE" LINE

DRAINAGE DITCH (TYP)

LIMIT OF DITCH TOE OF FILL

LIMIT OF DITCH

"FNE" 31+77.92 POT=
"M" 954+83.44 POC

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°24'09"E	100.00'
2	N78°56'01"E	1048.18'

CURVE DATA					
NO.	R	Δ	T	L	V
①	2000.00'	23°03'40"	408.02'	804.99'	55 MPH
②	1500.00'	34°43'31"	469.00'	909.10'	55 MPH

S TOPEKA AVE

REMOVE EXIST AT-GRADE CROSSING

STREET BARRICADE

RETAINING WALL NO. 1

MBGR (TYP)

EB

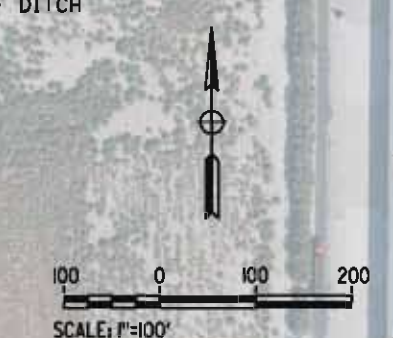
MATCH LINE - SEE CT1112

LIMIT OF DITCH TOE OF FILL

LIMIT OF DITCH

BNSF TRACK RELOCATION

RETAINING WALL DATA				
NO.	BEGIN	LOCATION	END	MAX HEIGHT
1	136.76' LT	"FNE" 34+74.02	79.38' LT "FNE" 40+86.68	631' 14'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E NEBRASKA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1111
SCALE
AS SHOWN
SHEET NO.
8 OF 29

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LINE DATA		
NO.	BEARING	DISTANCE
2	N78°56'01"E	1048.18'
3	S88°44'05"E	307.27'
4	S00°41'22"W	900.00'

CURVE DATA					
NO.	R	Δ	T	L	V
(3)	2000.00'	12°19'55"	216.07'	430.46	55 MPH

RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	136.76' LT "FNE" 34+74.02	79.38' LT "FNE" 40+86.68	631'	18'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E NEBRASKA AVE

CONTRACT NO. HST 06-0003
DRAWING NO. CT1112
SCALE AS SHOWN
SHEET NO. 9 OF 29

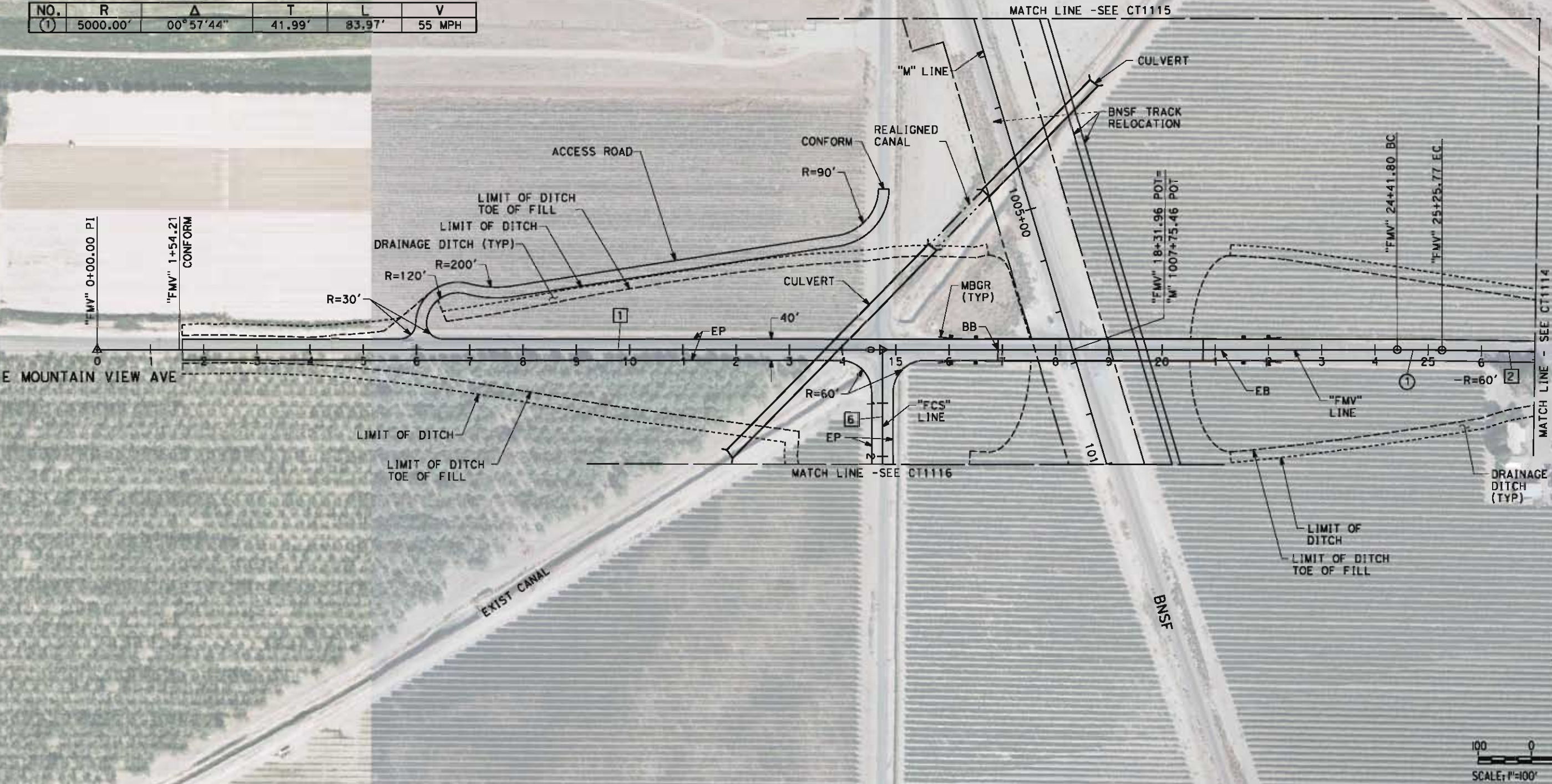
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LINE DATA

NO.	BEARING	DISTANCE
1	S90°00'00"E	2441.80'
2	S89°02'16"E	1074.23'
6	S00°00'00"E	845.11'

CURVE DATA

NO.	R	Δ	T	L	V
①	5000.00'	00°57'44"	41.99'	83.97'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BARR
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



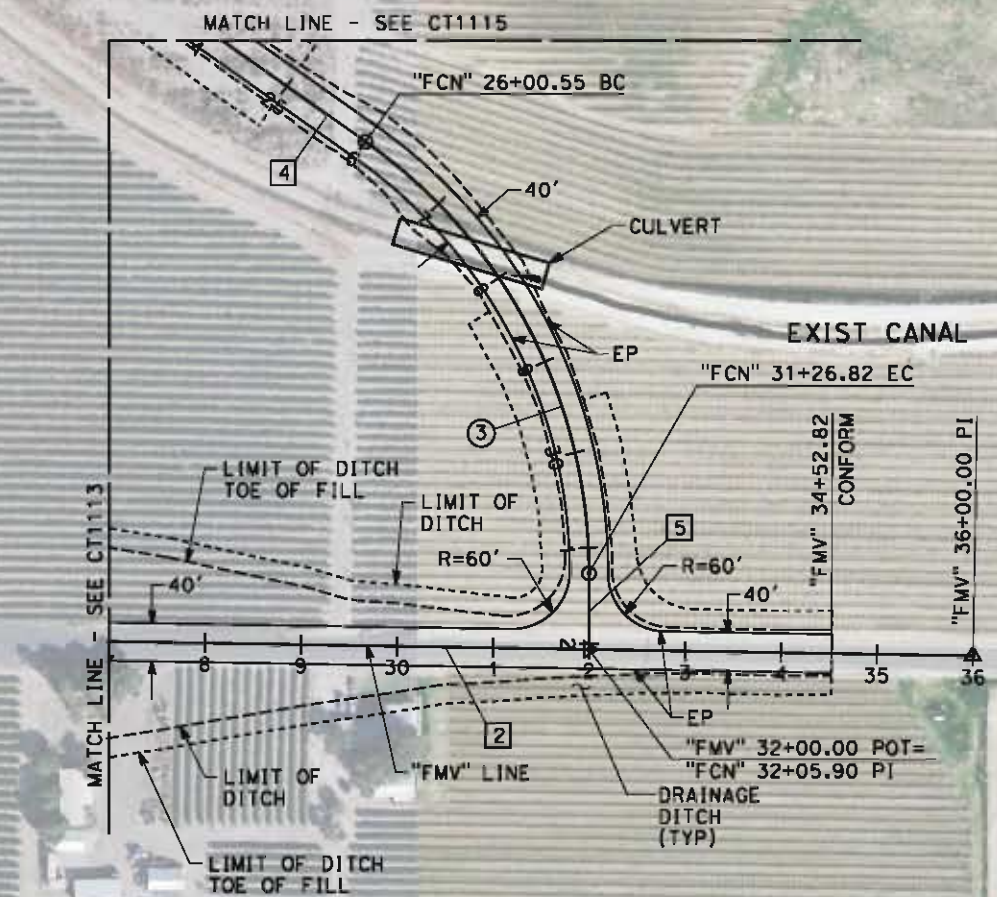
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E MOUNTAIN VIEW AVE

CONTRACT NO. HST 06-0003
DRAWING NO. CT1113
SCALE AS SHOWN
SHEET NO. 10 OF 29

\\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\Highway\WB\B-CT-1114-M.dgn 5/17/2012 8:03:09 PM

LINE DATA		
NO.	BEARING	DISTANCE
2	S89°02'16"E	1074.23'
4	S54°48'20"E	1434.72'
5	S00°01'03"W	79.08'

CURVE DATA					
NO.	R	Δ	T	L	V
(1)	550.00'	54°49'23"	285.23'	526.26'	35 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

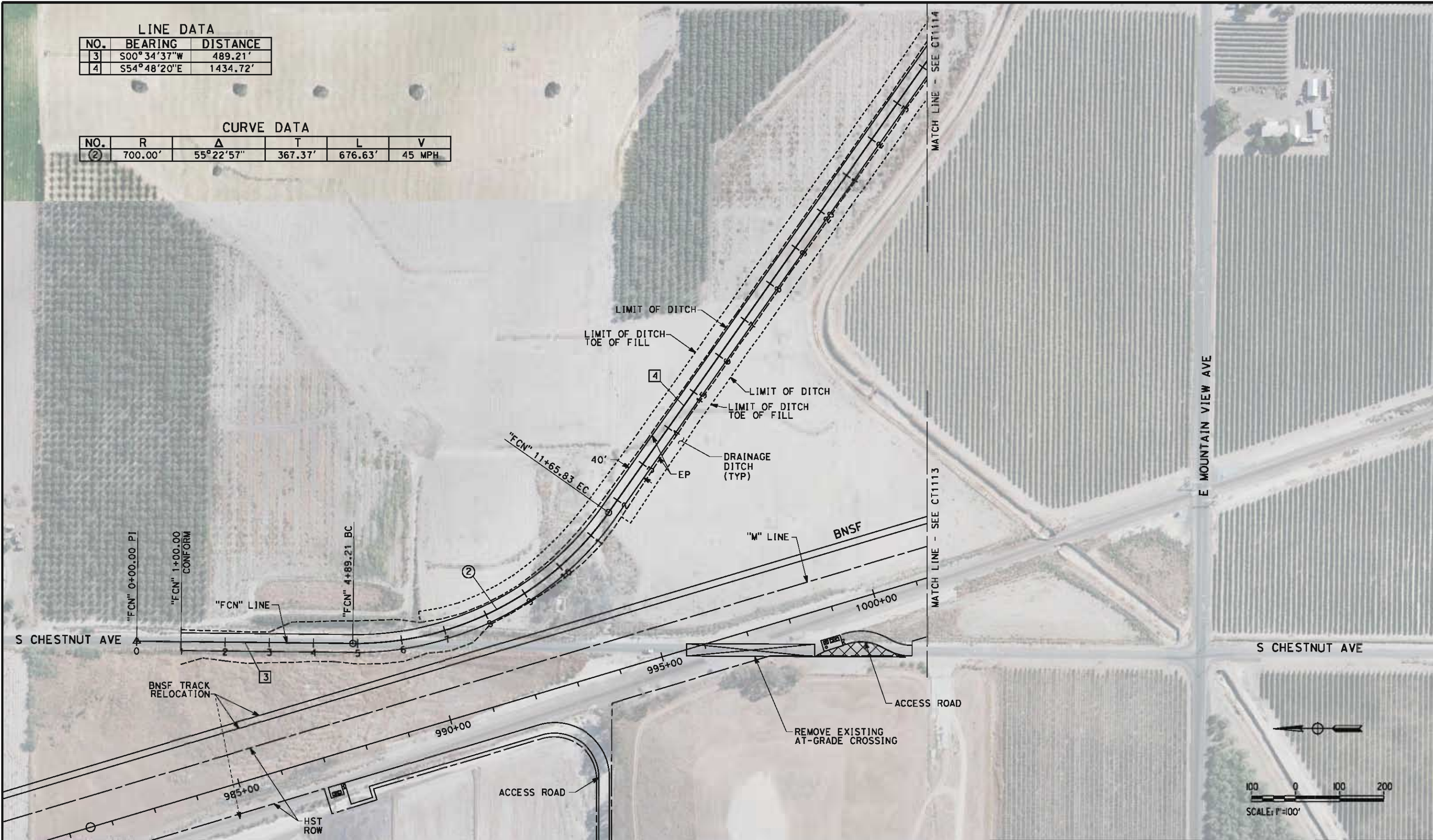


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E MOUNTAIN VIEW AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1114
SCALE AS SHOWN
SHEET NO. 11 OF 29

LINE DATA		
NO.	BEARING	DISTANCE
3	S00°34'37"W	489.21'
4	S54°48'20"E	1434.72'

CURVE DATA					
NO.	R	Δ	T	L	V
(2)	700.00'	55°22'57"	367.37'	676.63'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	K. MING
DRAWN BY	E. SUDHAUSEN
CHECKED BY	M. BAMM
IN CHARGE	R. COFFIN
DATE	05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



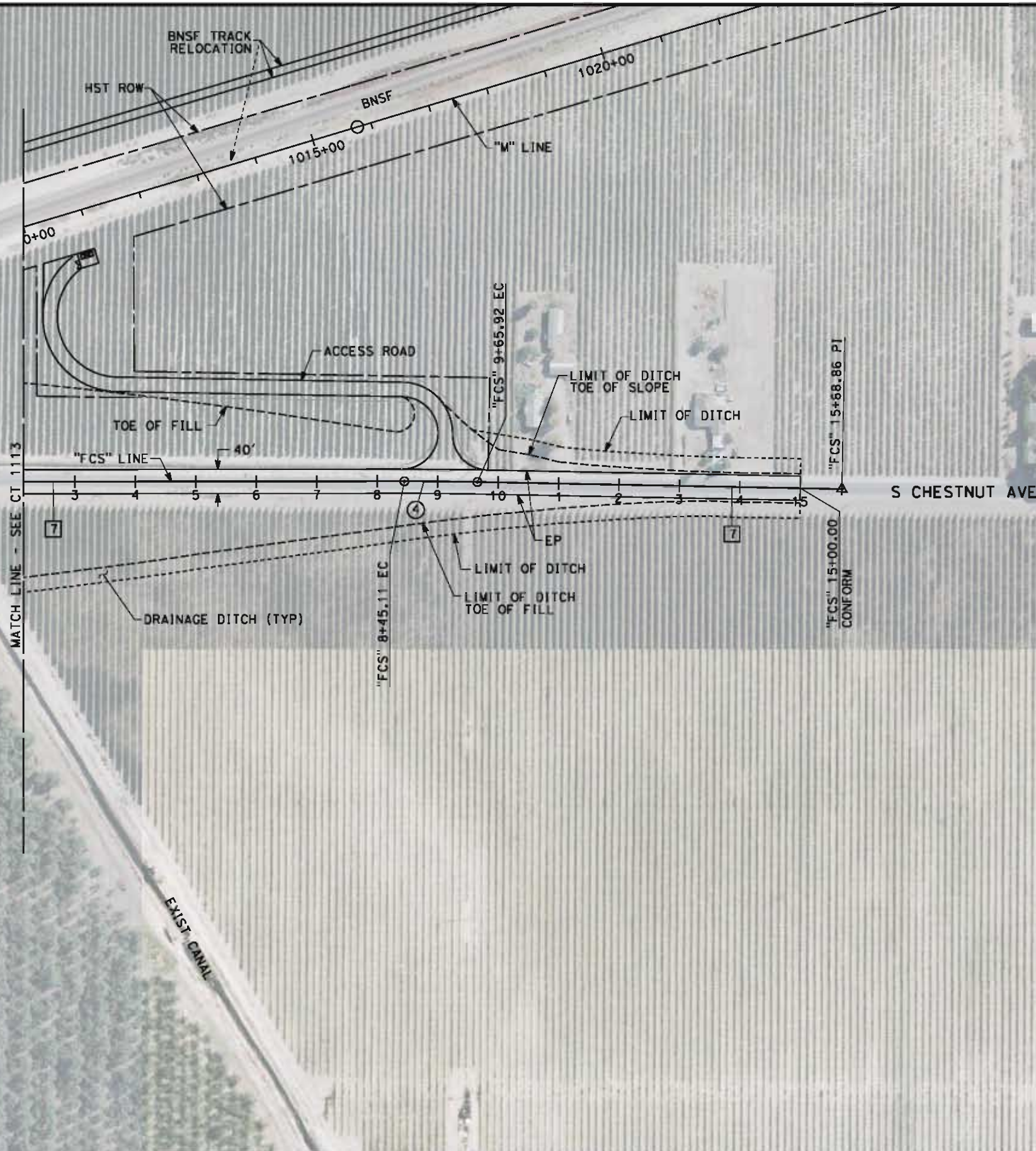
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
ROADWAY LAYOUT
S CHESTNUT AVE (NORTH)**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1115
SCALE	AS SHOWN
SHEET NO.	12 OF 29

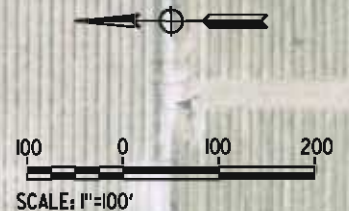
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E MOUNTAIN VIEW AVE



LINE DATA		
NO.	BEARING	DISTANCE
6	S00°00'00"E	845.11'
7	S01°09'13"W	602.93'

CURVE DATA					
NO.	R	Δ	T	L	V
(4)	6000.00'	01°09'13"	60.41'	120.81'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

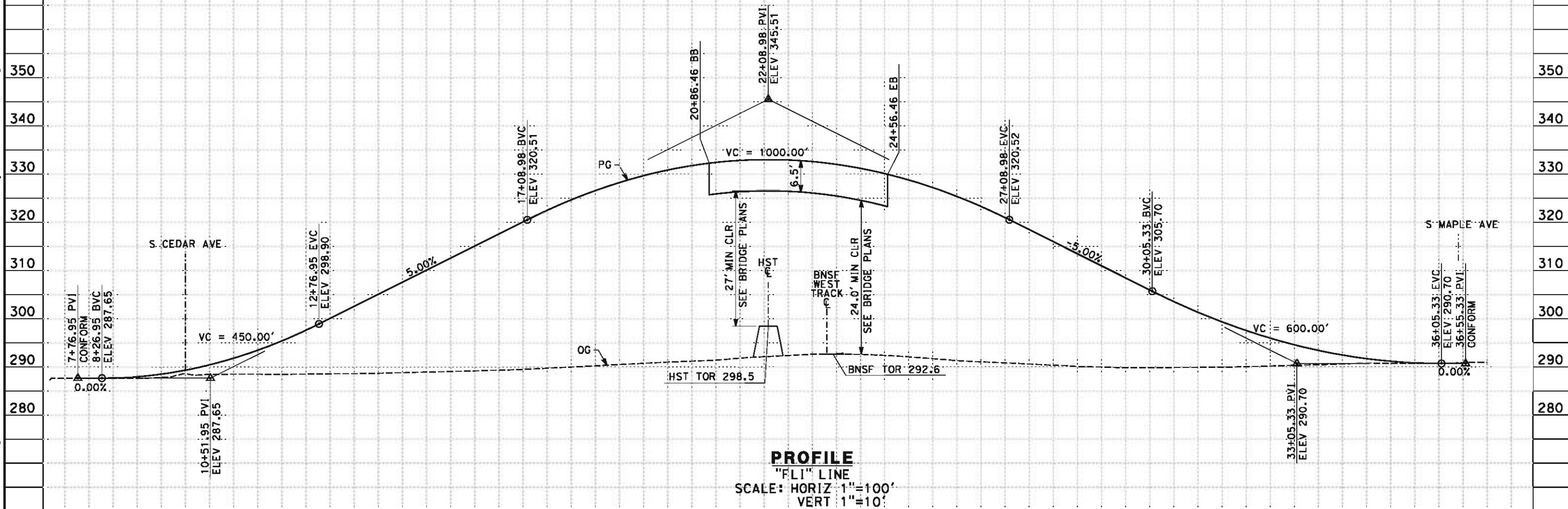


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
ROADWAY LAYOUT
S CHESTNUT AVE (SOUTH)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1116
SCALE AS SHOWN
SHEET NO. 13 OF 29

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- NOTES:
1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
 3. VERTICAL DESIGN SPEED = 45 MPH
 4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E LINCOLN AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2101
SCALE
AS SHOWN
SHEET NO.
14 OF 29

1. VERTICAL DESIGN SPEED = 45 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	K. MING
DRAWN BY	E. SUDHAUSEN
CHECKED BY	M. BAMM
IN CHARGE	R. COFFIN
DATE	05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



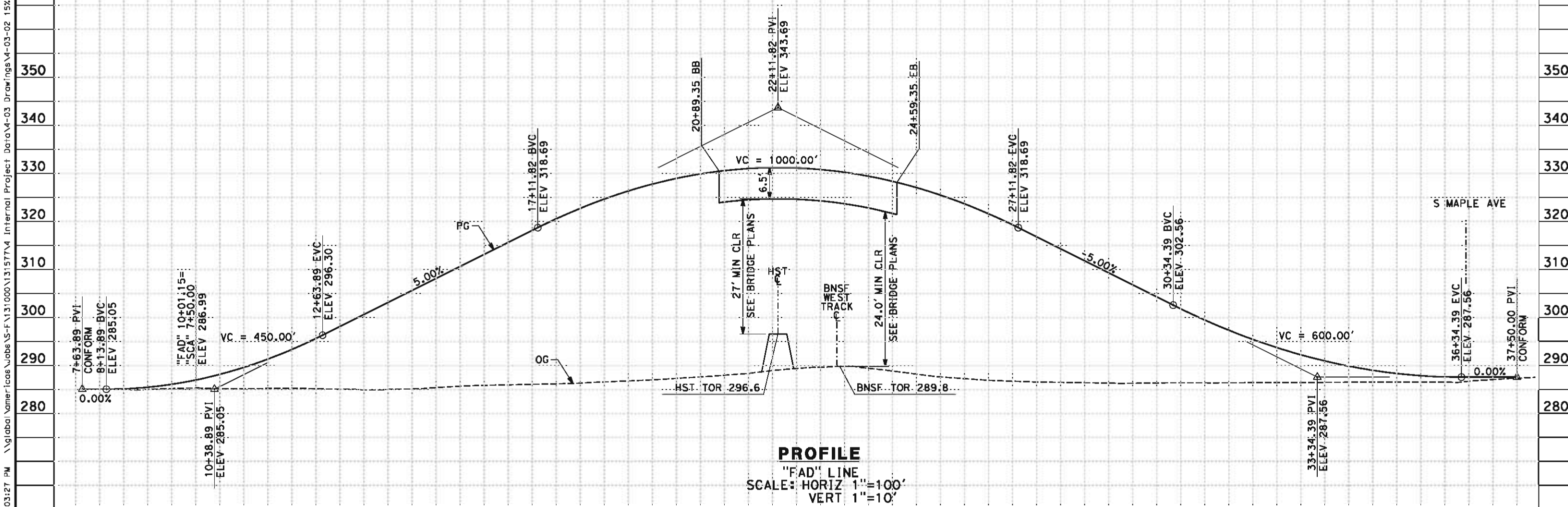
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
ROADWAY PROFILE
S CEDAR AT E ADAMS AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2102
SCALE	AS SHOWN
SHEET NO.	15 OF 29

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- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
 - 3. VERTICAL DESIGN SPEED = 45 MPH
 - 4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



PROFILE
"FAD" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

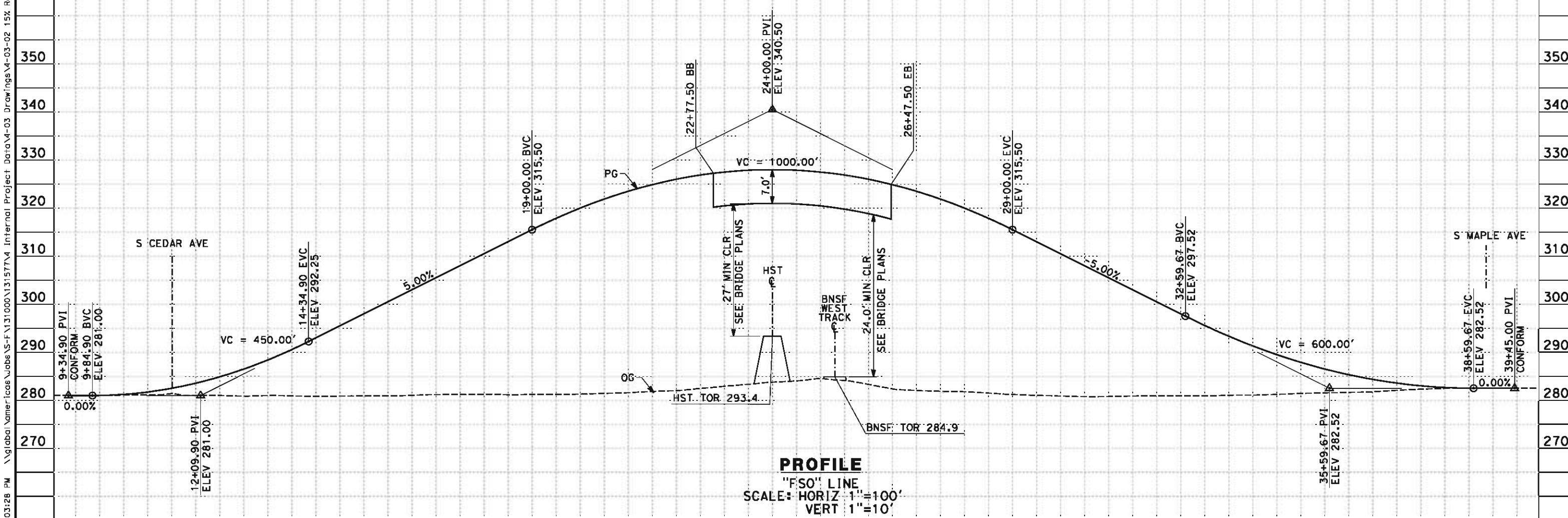


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E ADAMS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2103
SCALE
AS SHOWN
SHEET NO.
16 OF 29

eron.sudhausen 5/17/2012 8:03:28 PM \\global\america\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\MVB-B-CT-2104-M.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
 - 3. VERTICAL DESIGN SPEED = 45 MPH
 - 4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

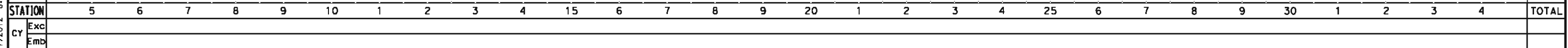
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E SOUTH AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2104
SCALE AS SHOWN
SHEET NO. 17 OF 29

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER S CHANCE AVE IS 16.5'
4. VERTICAL DESIGN SPEED = 45 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMM
IN CHARGE R. COFFIN
DATE 05/18/12



URS | HMM | ARUP

CALIFORNIA HIGH-SPEED TRAIN



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E MANNING AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2106
SCALE	AS SHOWN
SHEET NO.	18 OF 29

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
3. VERTICAL DESIGN SPEED = 55 MPH
4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



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DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMM
IN CHARGE R. COFFIN
DATE 05/18/12

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

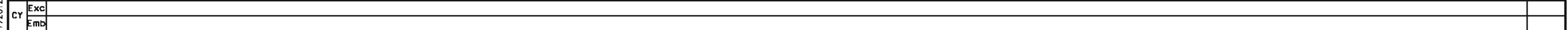





**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E FLORAL AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2108
SCALE	AS SHOWN
SHEET NO.	19 OF 29



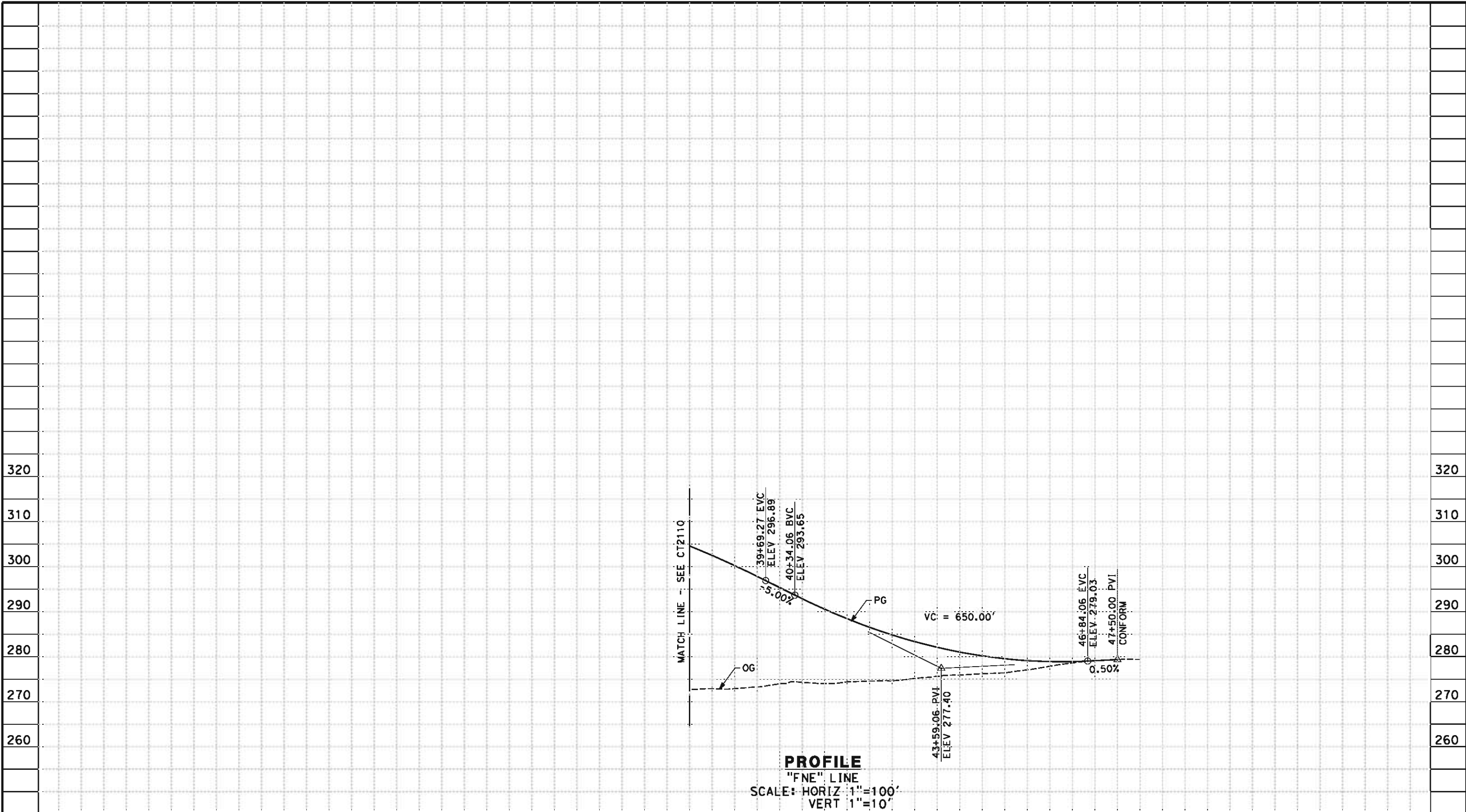
1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
3. VERTICAL DESIGN SPEED = 55 MPH
4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



						DESIGNED BY K. MING	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD MONMOUTH SUBSECTION ALIGNMENT M GRADE SEPARATION PROFILE E NEBRASKA AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN					DRAWING NO. CT2110
						CHECKED BY M. BAMM					SCALE AS SHOWN
						IN CHARGE R. COFFIN					SHEET NO. 21 OF 29
						DATE 05/18/12					
REV	DATE	BY	CHK	APP	DESCRIPTION						

eron.sudhausen 5/17/2012 8:03:33 PM \\global\\americas\\Jobs\\SF\\131000\\131577\\4 Internal Project Data\\4-03 Drawings\\4-03-02 15% Redesign\\4-03-02-05 Design Sheets\\Highway WAFB-CT-2110-M.cogn

eron.sudhausen 5/17/2012 8:03:34 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\Highway\WVB-CT-2111-M.dgn



STATION		6	7	8	9	40	1	2	3	4	45	6	7	8	TOTAL
CY	Exc														
	Emb														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

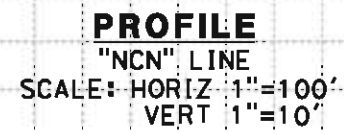
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E NEBRASKA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2111
SCALE AS SHOWN
SHEET NO. 22 OF 29

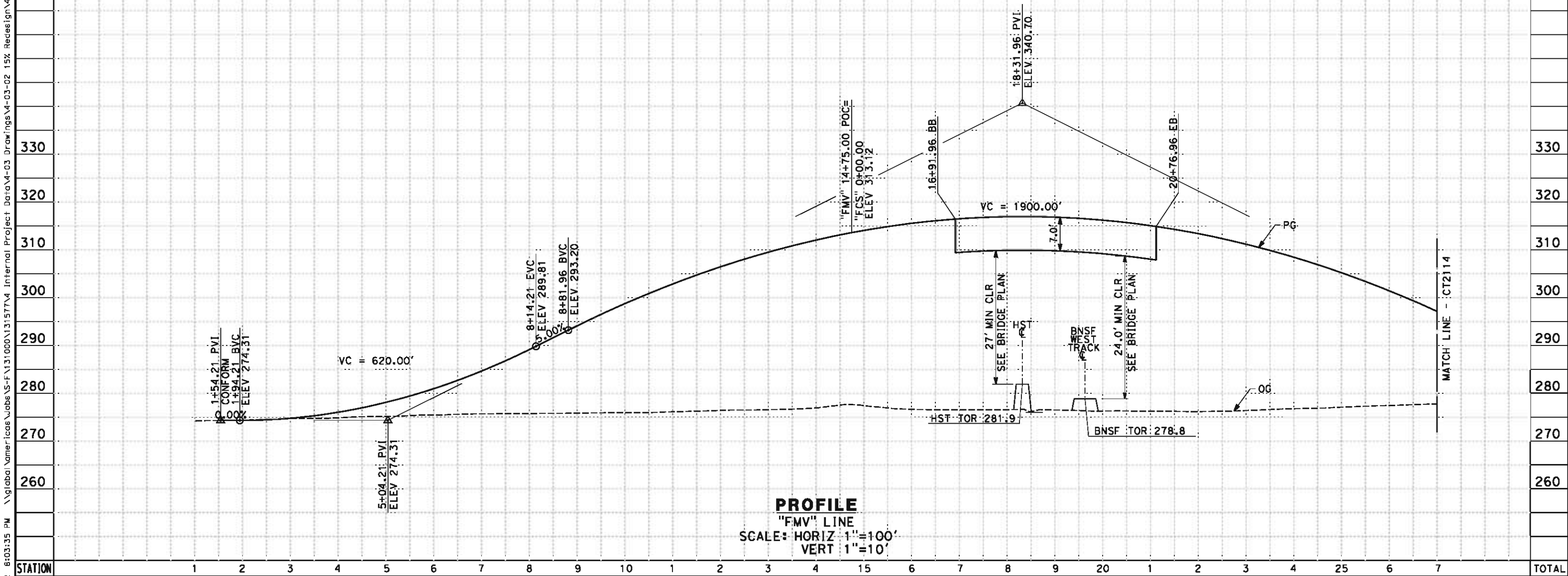
1. VERTICAL DESIGN SPEED = 25 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM

[illegible]

						DESIGNED BY K. MING DRAWN BY E. SUDHAUSEN CHECKED BY M. BAMM IN CHARGE R. COFFIN DATE 05/18/12	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD MONMOUTH SUBSECTION ALIGNMENT M GRADE SEPARATION PROFILE S CHESTNUT AVE AT E NEBRASKA AVE	CONTRACT NO. HSR 06-0003 DRAWING NO. CT2112 SCALE AS SHOWN SHEET NO. 23 OF 29
REV	DATE	BY	CHK	APP	DESCRIPTION					

eron.sudhausen 5/17/2012 8:03:35 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\WB-B-CT-2113-M.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
 - 3. VERTICAL DESIGN SPEED = 55 MPH
 - 4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



Exc

CY

Emb



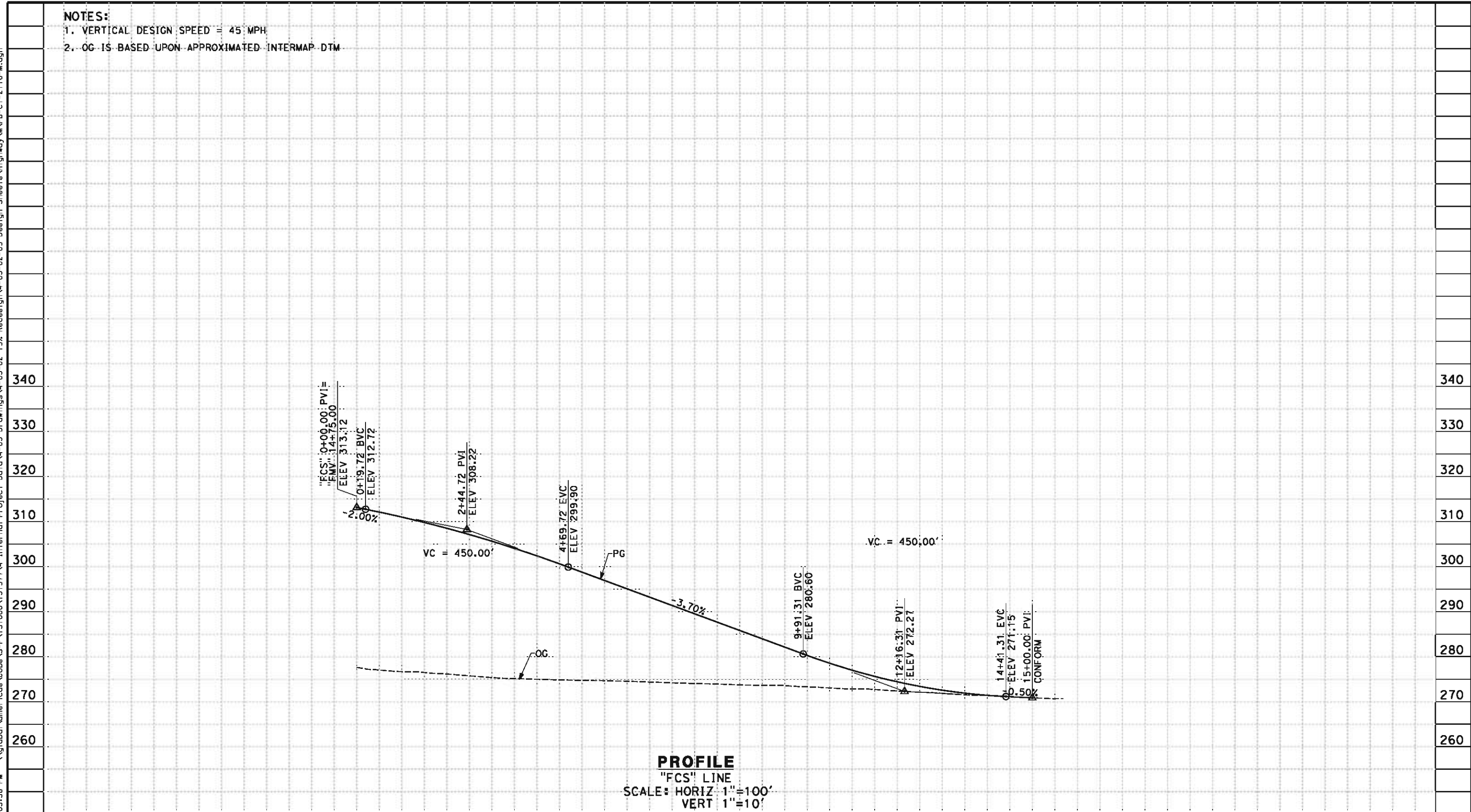
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2114
SCALE	AS SHOWN
SHEET NO.	25 OF 29

1. VERTICAL DESIGN SPEED = 35 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



eron.sudhausen 5/17/2012 8:03:38 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\WB-B-CT-2116-M.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 45 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		0	1	2	3	4	5	6	7	8	9	10	1	2	3	4		TOTAL
CY	Exc																	
	Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

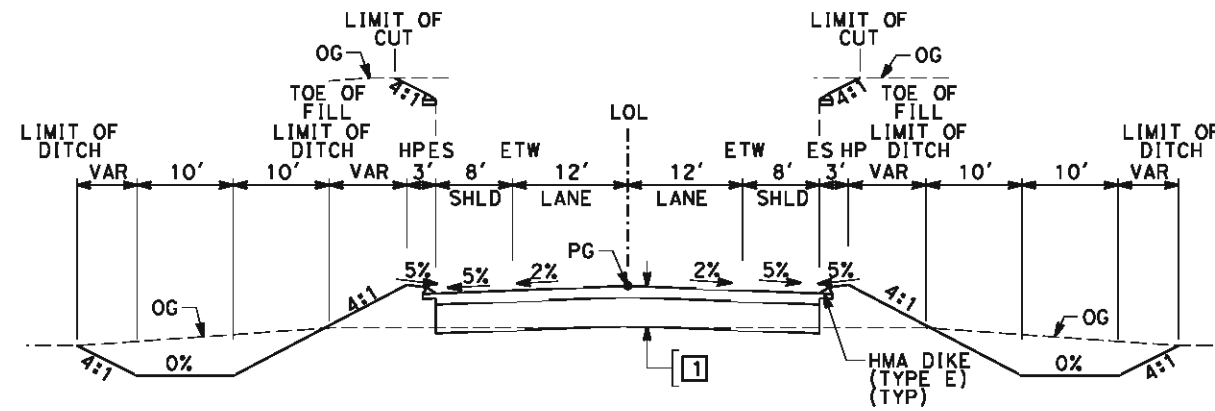
MONMOUTH SUBSECTION
ALIGNMENT M
ROADWAY PROFILE
S CHESTNUT AVE (SOUTH)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2116
SCALE AS SHOWN
SHEET NO. 27 OF 29

2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

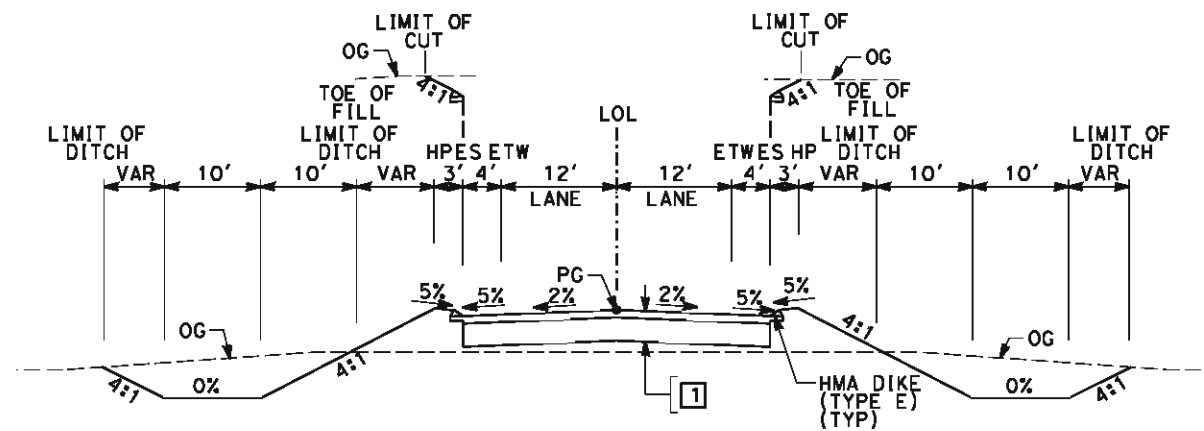
STRUCTURAL SECTIONS TYPICAL ROADWAY

1-0.60' HMA (TYPE A)
1.50' CL2 AB



SECTION A

"FLI"	07+76.95	TO	20+86.47	"FNE"	34+57.92	TO	47+50.00
"FLI"	24+56.47	TO	36+55.33	"FMV"	01+54.21	TO	16+91.96
"FAD"	07+63.89	TO	20+89.35	"FMV"	21+11.96	TO	34+52.82
"FAD"	24+59.35	TO	38+00.38	"FCN"	01+00.00	TO	32+05.90
"FNE"	12+50.00	TO	30+37.92	"FCS"	00+00.00	TO	15+00.00



SECTION B

"FSO"	09+34.90	TO	22+77.50
"FSO"	26+67.50	TO	39+45.00
"FFL"	04+88.71	TO	21+60.00
"FFL"	25+80.00	TO	40+07.90

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	K. MING
DRAWN BY	E. SUDHAUSEN
CHECKED BY	M. BAMM
IN CHARGE	R. COFFIN
DATE	05/18/12

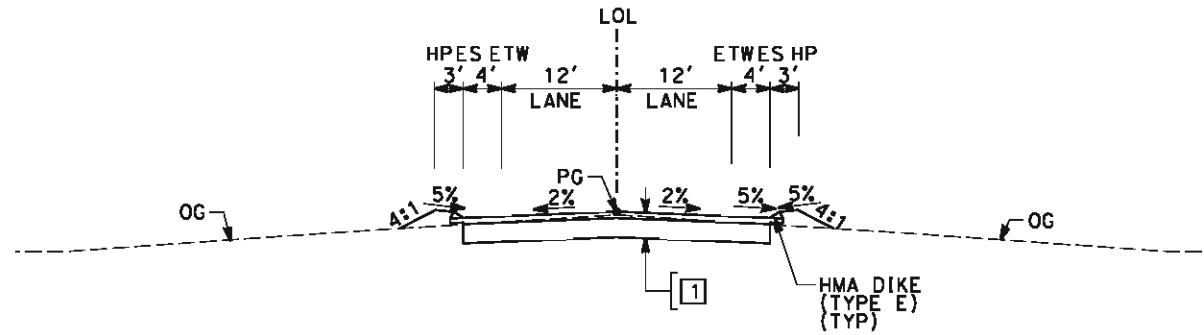
**RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS**

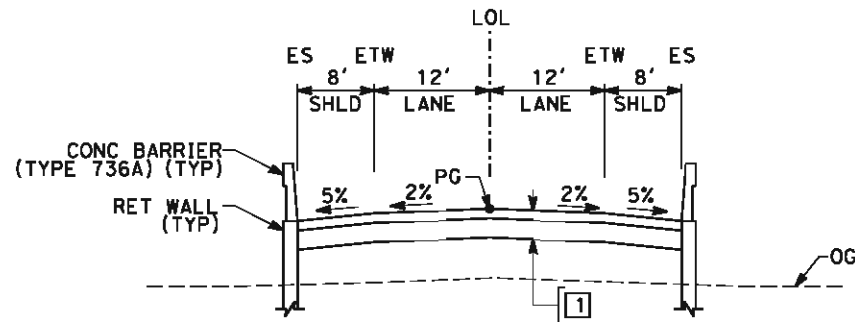
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT3010
SCALE	NO SCALE
SHEET NO.	28 OF 29

eron.sudhausen 5/17/2012 8:03:41 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\MVB-CT-3011-M.dgn



SECTION C

"FCD" 04+00.00 TO 11+00.00
"NCN" 03+00.00 TO 11+00.00



SECTION D

"FMN" 05+48.21 TO 15+35.77
"FMN" 23+05.77 TO 34+00.73

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MING
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

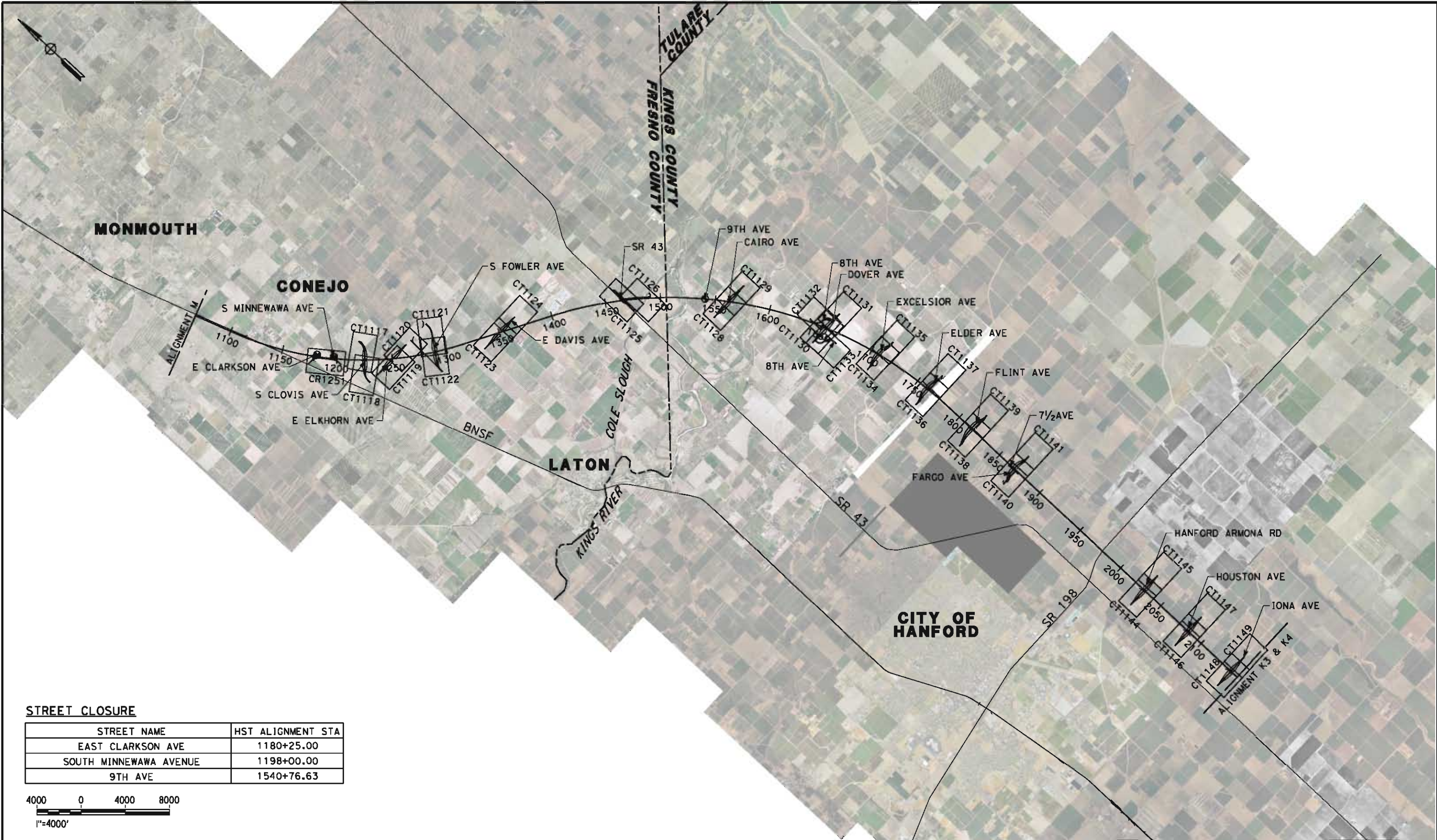
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD MONMOUTH SUBSECTION ALIGNMENT M ROADWAY / GRADE SEPARATION TYPICAL CROSS SECTIONS
--

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3011
SCALE NO SCALE
SHEET NO. 29 OF 29

\\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CB-0055-H.dgn 5/17/2012 8:18:58 PM eron.sudhausen



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA
EAST CLARKSON AVE	1180+25.00
SOUTH MINNEWAWA AVENUE	1198+00.00
9TH AVE	1540+76.63



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0055
SCALE
AS SHOWN
SHEET NO.
1 OF 69

eron.sudhausen 5/17/2012 8:19:13 PM \\global\americas\Jobs\AS-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\HV-B-CT-1117-H.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	S00°31'37"W	250.00'
2	S47°07'24"W	1821.26'

CURVE DATA

NO.	R	Δ	T	L	V
①	1100.00'	46°35'47"	473.69'	894.58'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
S CLOVIS AVE

CONTRACT NO. HST 06-0003
DRAWING NO. CT1117
SCALE AS SHOWN
SHEET NO. 2 OF 69

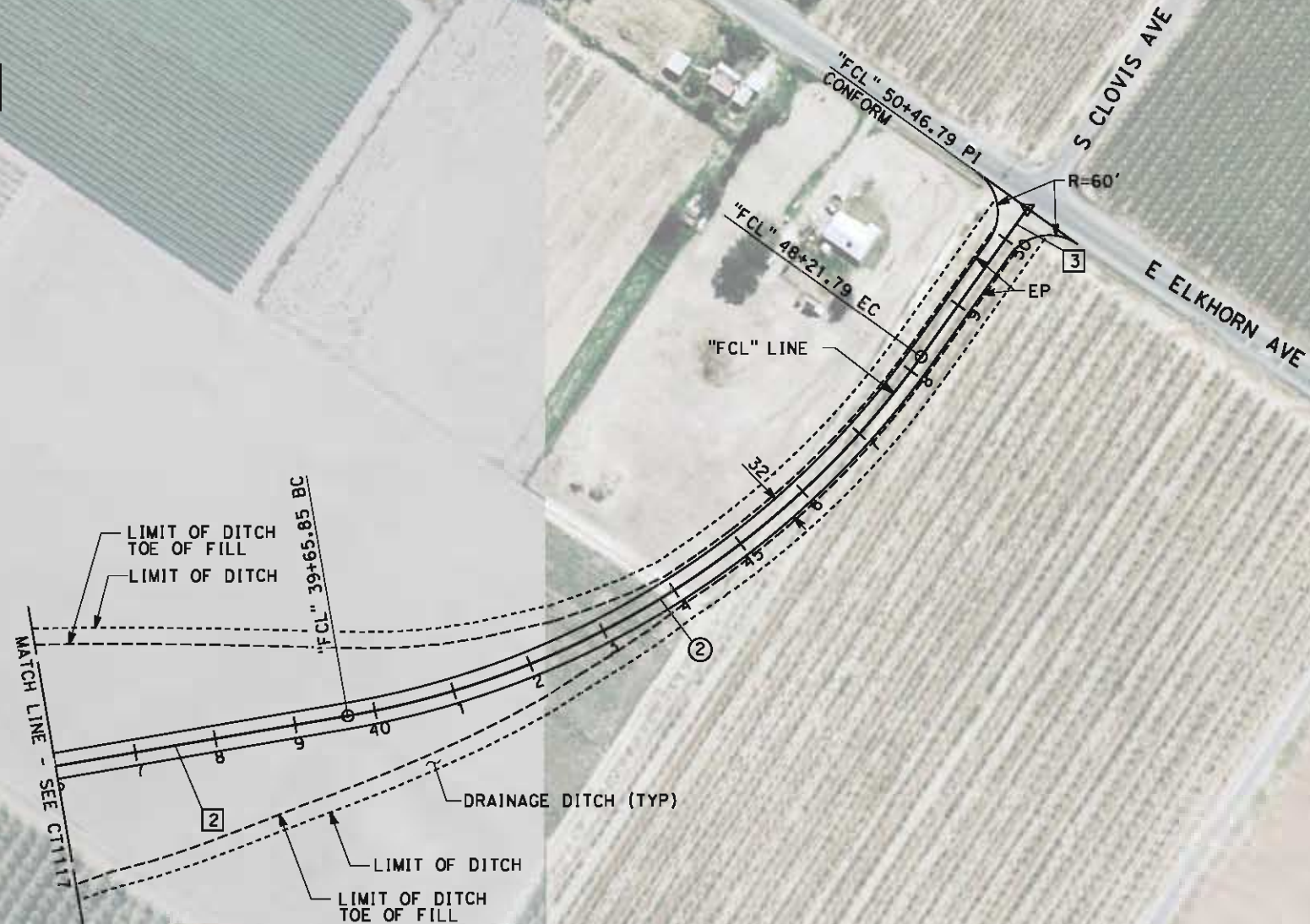
eran.sudhausen 5/17/2012 8:19:19 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-1118-H.dgn

LINE DATA

NO.	BEARING	DISTANCE
2	S47°07'24"W	1821.26'
3	S2°32'24"W	225.00'

CURVE DATA

NO.	R	Δ	T	L	V
(2)	1100.00'	44°35'00"	450.96'	855.94'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

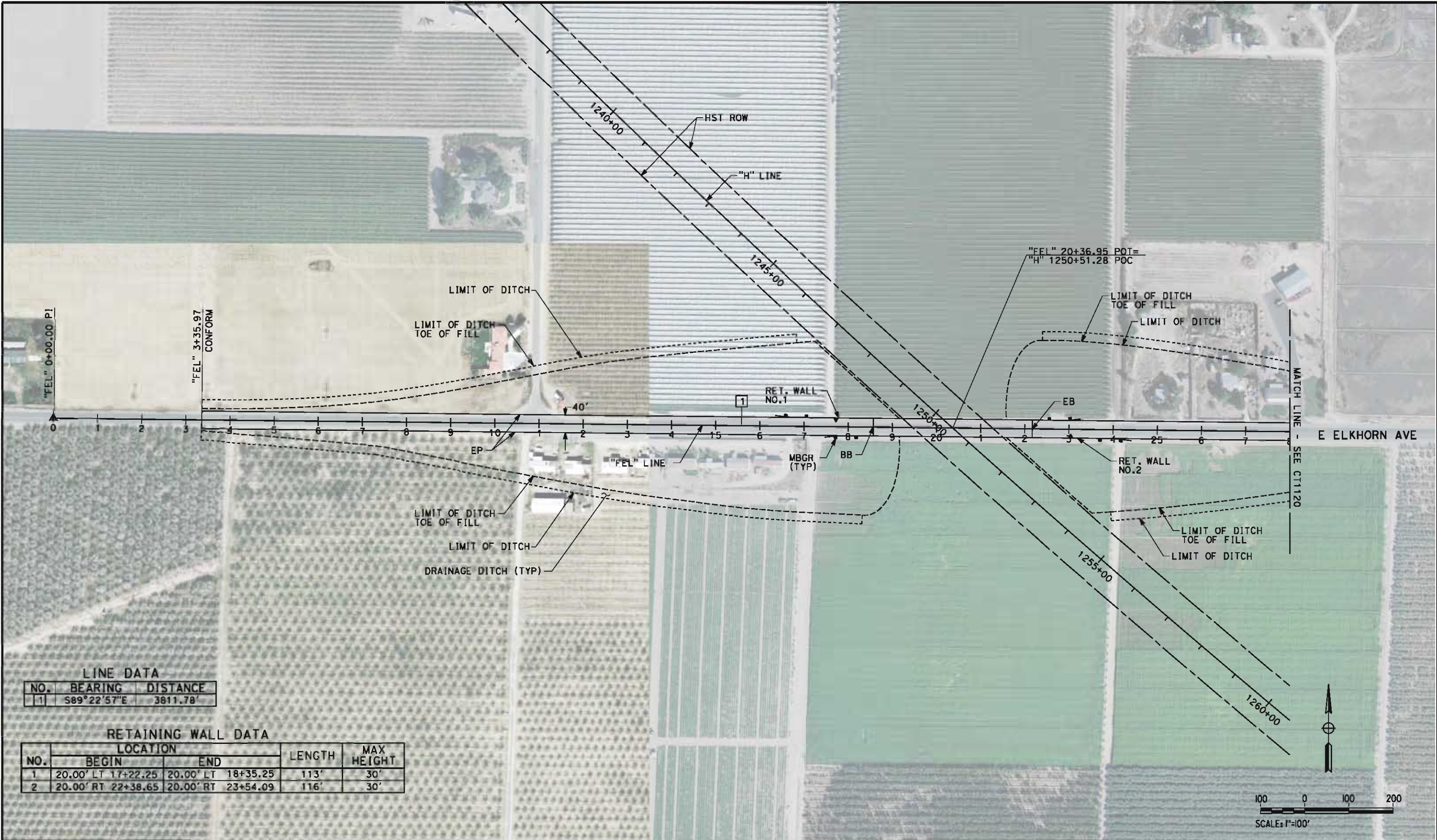
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
S CLOVIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1118
SCALE AS SHOWN
SHEET NO. 3 OF 69

eron.sudhausen 5/17/2012 8:19:26 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\HVB-CT-1119-H.dgn



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°22'57"E	3811.78'

RETAINING WALL DATA					
NO.	LOCATION		LENGTH	MAX HEIGHT	
	BEGIN	END			
1	20.00' LT 17+22.25	20.00' LT 18+35.25	113'	30'	
2	20.00' RT 22+38.65	20.00' RT 23+54.09	116'	30'	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

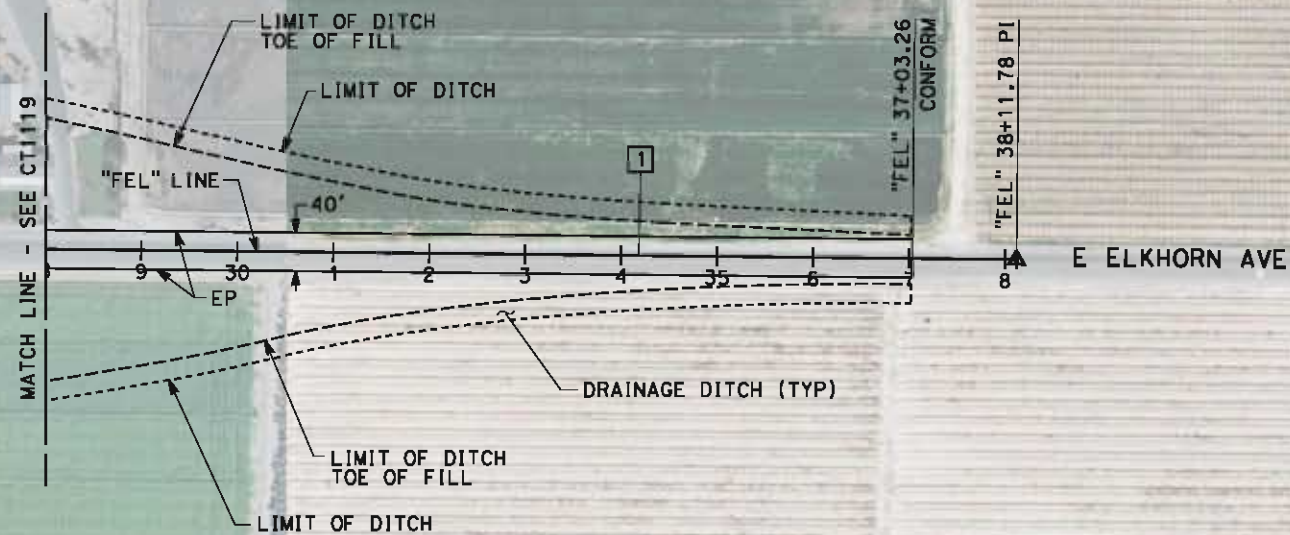
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
E ELKHORN AVE

CONTRACT NO.
HST 06-0003
DRAWING NO.
CT1119
SCALE
AS SHOWN
SHEET NO.
4 OF 69

eron.sudhausen 5/17/2012 8:19:33 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-1120-H.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	S89°22'57"E	3811.78'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

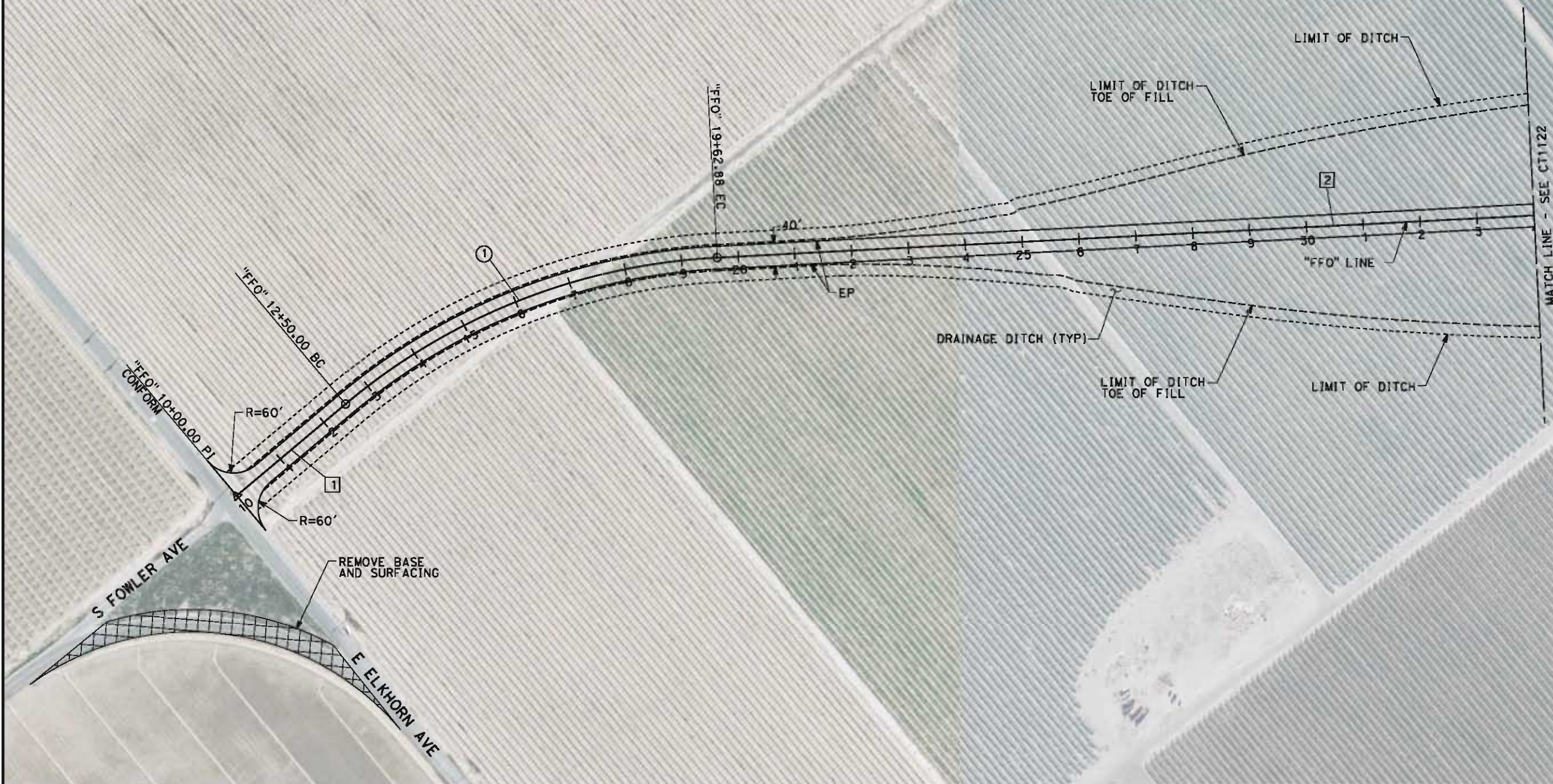
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
E ELKHORN AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1120
SCALE AS SHOWN
SHEET NO. 5 OF 69

eron.sudhausen 5/17/2012 8:19:49 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Design Sheets\Highway\HV-B-CT-1121-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S00°00'00"W	250.00'
2	S37°07'55"W	2826.61'

CURVE DATA					
NO.	R	Δ	T	L	V
(1)	1100.00'	37°07'55"	369.46'	712.88'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



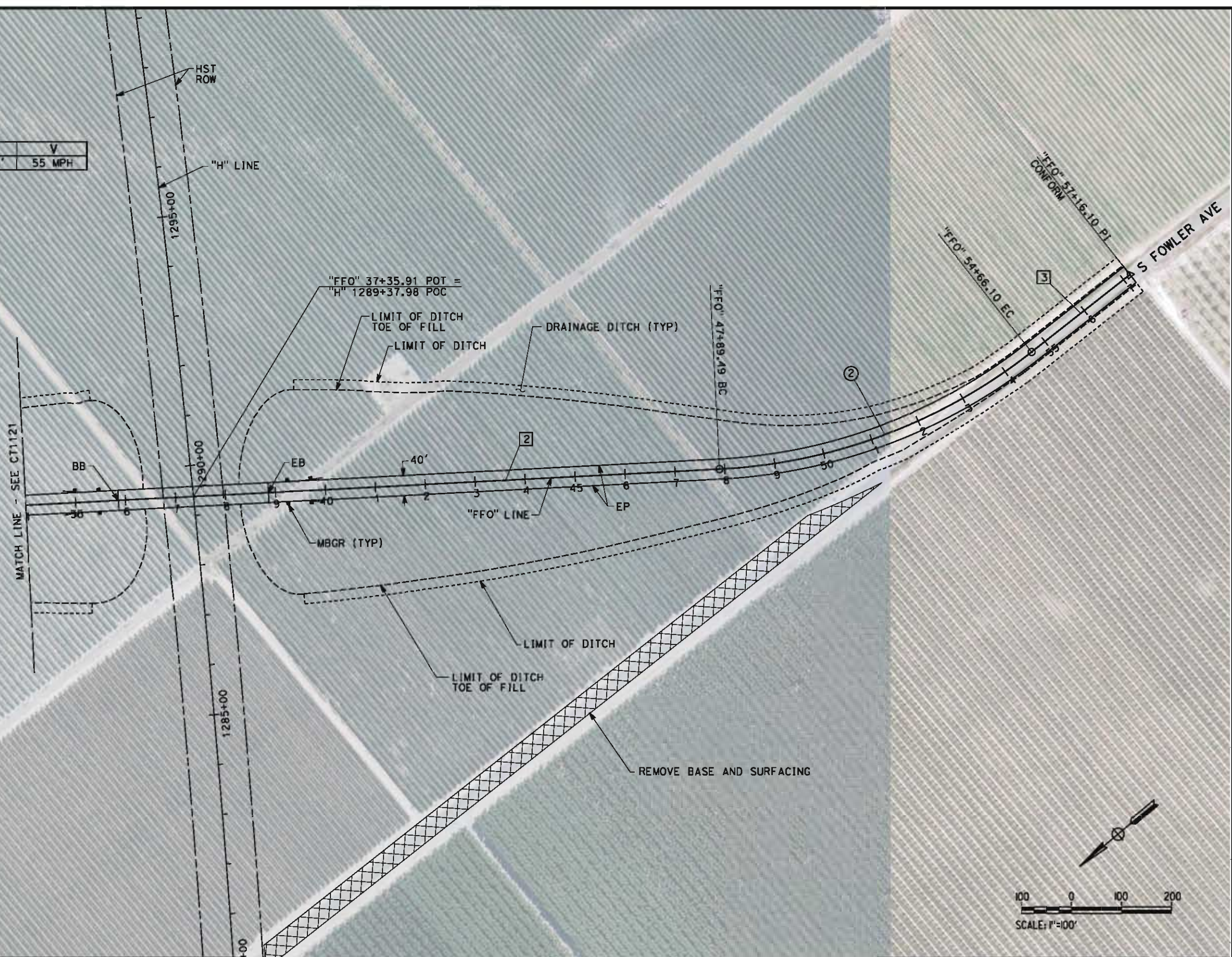
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
S FOWLER AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1121
SCALE AS SHOWN
SHEET NO. 6 OF 69

eron.sudhausen 5/17/2012 8:19:56 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-1122-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
2	S37°07'55"W	2826.61'
3	S01°53'22"W	250.00'

CURVE DATA					
NO.	R	Δ	T	L	V
(2)	1100.00'	35°14'34"	349.39'	676.61'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



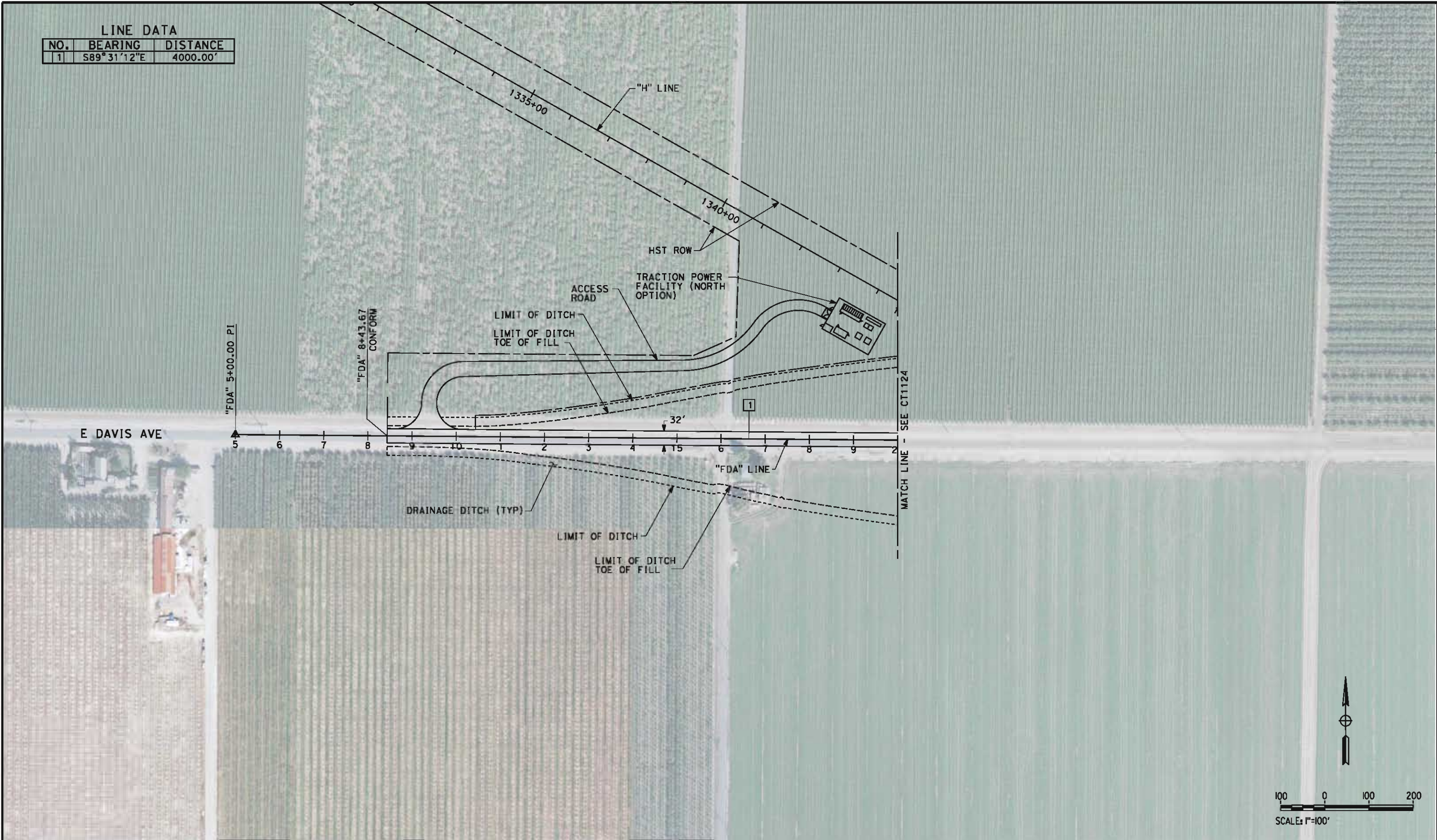
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
S FOWLER AVE

CONTRACT NO. HST 06-0003
DRAWING NO. CT1122
SCALE AS SHOWN
SHEET NO. 7 OF 69

eron.sudhausen 5/18/2012 10:13:15 AM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Design Sheets\Highway\HVB-CT-1123-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°31'12"E	4000.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
E DAVIS AVE

CONTRACT NO. HST 06-0003
DRAWING NO. CT1123
SCALE AS SHOWN
SHEET NO. 8 OF 69

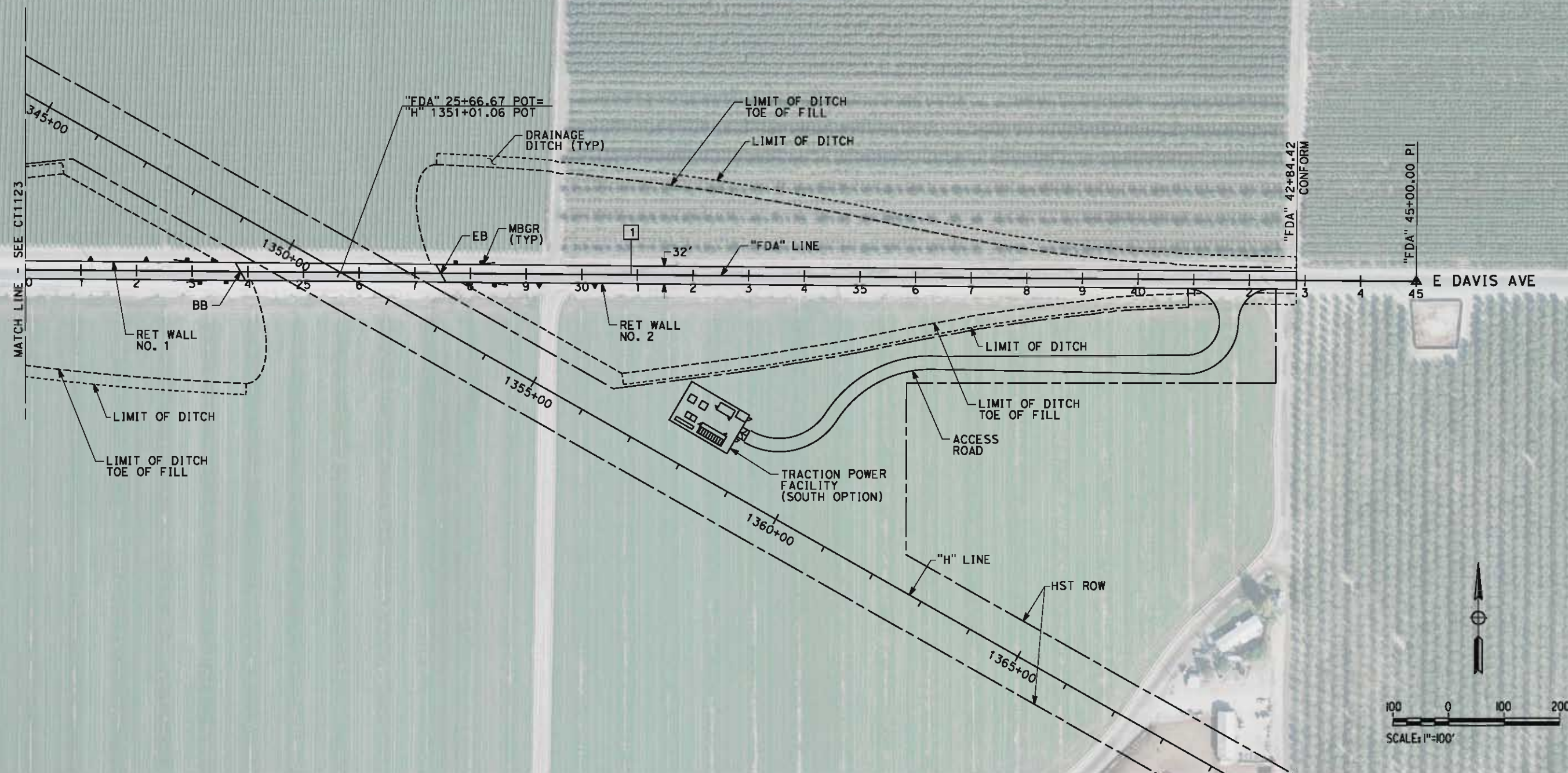
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LINE DATA

NO.	BEARING	DISTANCE
1	S89°31'12"E	4000.00'

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	16.00' LT 20+67.35	16.00' LT 22+42.41	175'	30'
2	16.00' RT 28+59.81	16.00' RT 30+73.83	214'	30'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



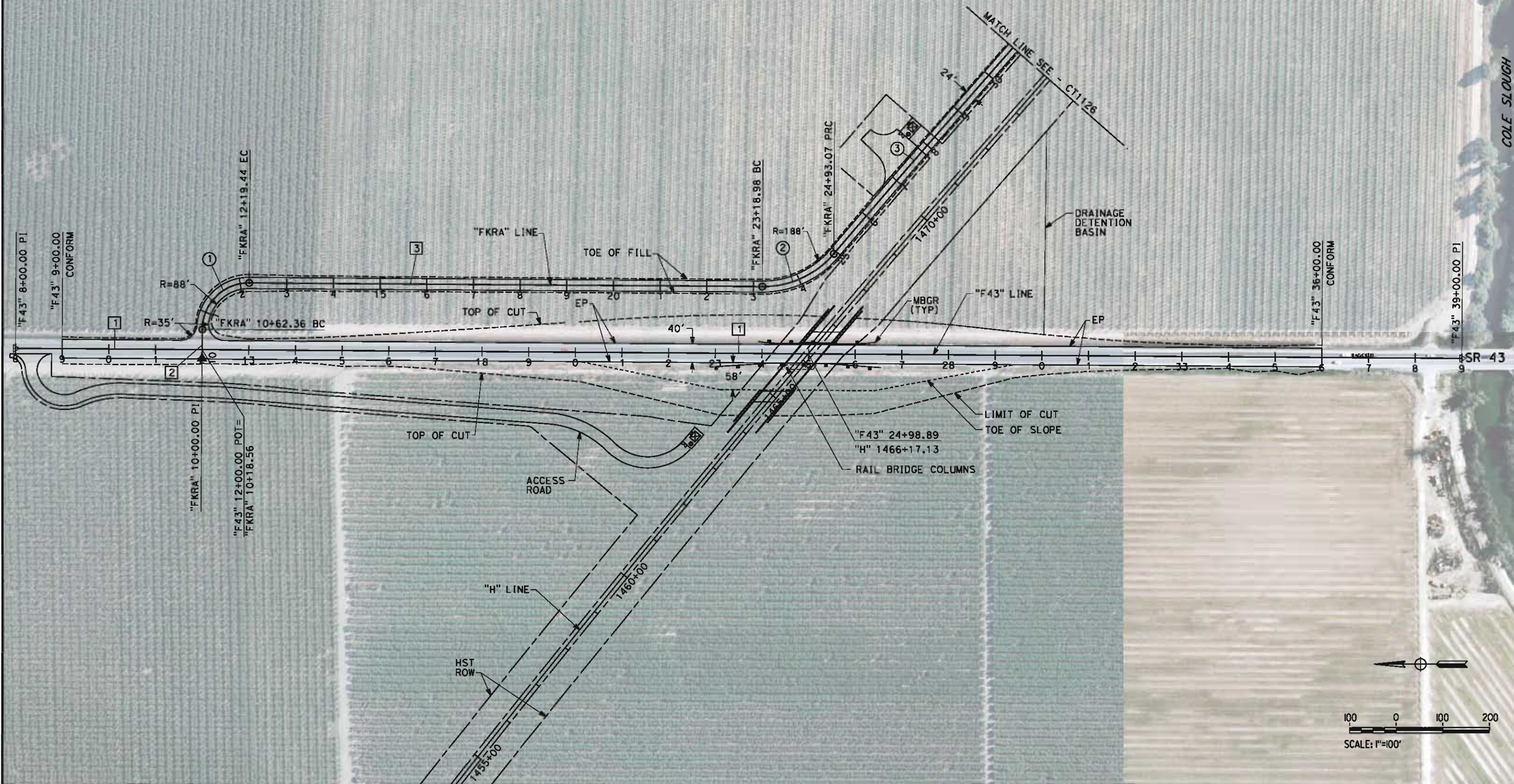
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
E DAVIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1124
SCALE AS SHOWN
SHEET NO. 9 OF 69

\\gabal\americas\labs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HVB-CT-1125-H.dgn 5/18/2012 9:42:41 AM

LINE DATA		
NO.	BEARING	DISTANCE
1	S00°23'57"W	3100.00'
2	S89°36'03"E	62.36'
3	S00°23'57"W	1099.54'

CURVE DATA					
NO.	R	Δ	T	L	V
①	100.00'	90°00'00"	100.00'	157.08'	15 MPH
②	200.00'	49°52'27"	92.99'	174.09'	15 MPH
③	36597.00'	02°40'05"	852.24'	1704.17'	15 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

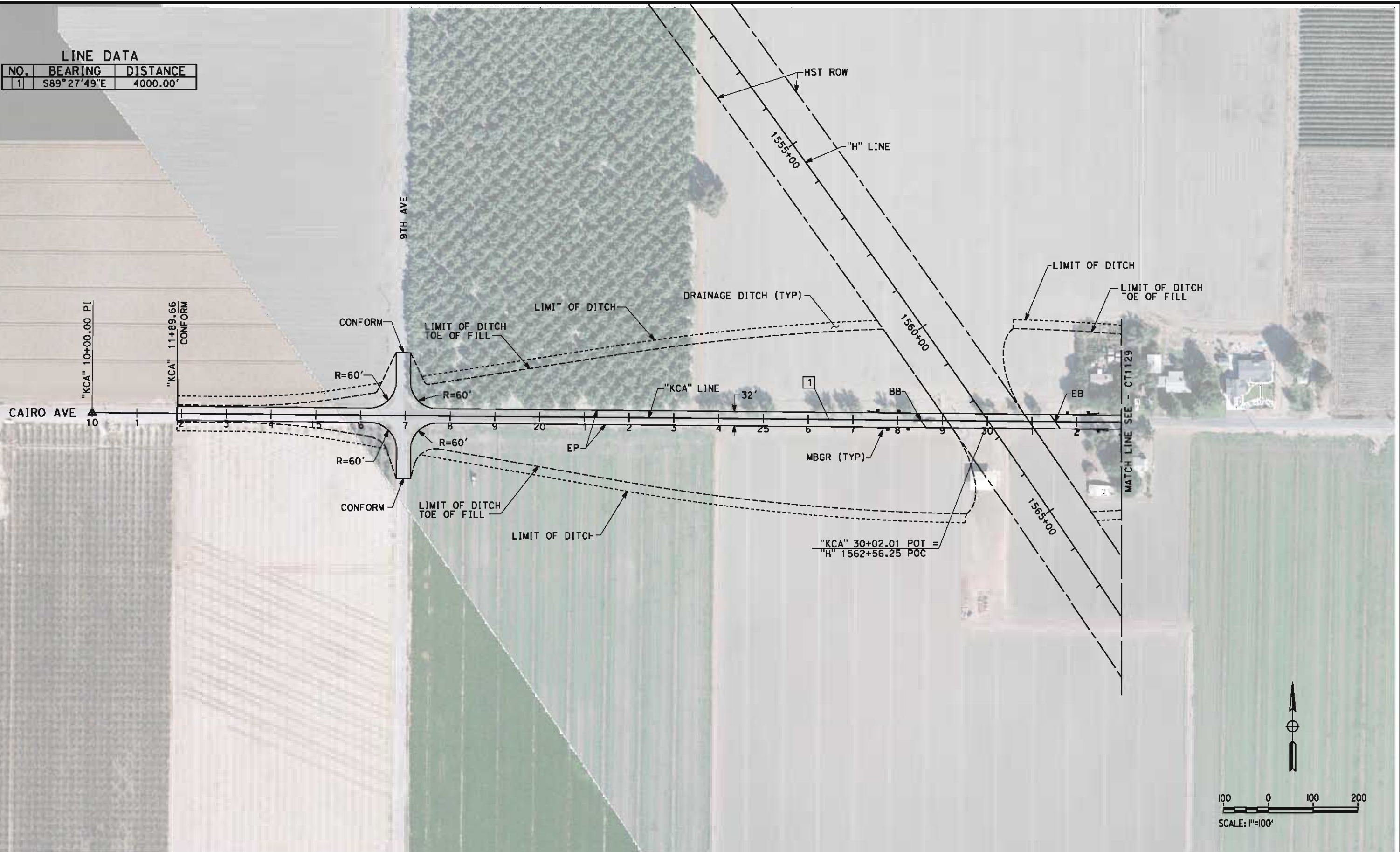


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
STATE ROUTE 43 - KINGS RIVER LEVEE ACCESS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1125
SCALE AS SHOWN
SHEET NO. 10 OF 69

\\global\americas\labe\5-F\131000\131571\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-1128-H.cgn 5/17/2012 8:20:44 PM

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°27'49"E	4000.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



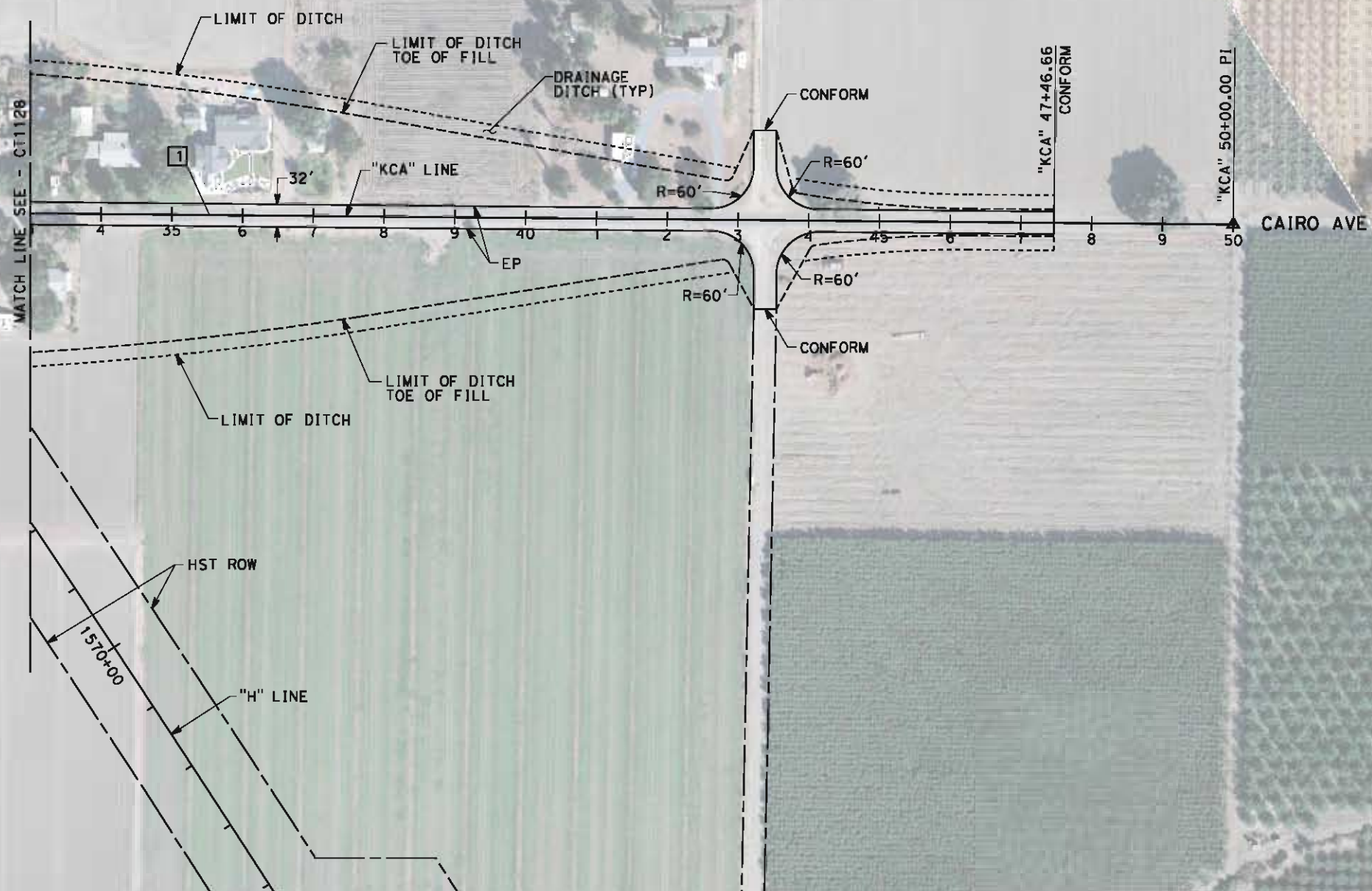
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
CAIRO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1128
SCALE AS SHOWN
SHEET NO. 12 OF 69

eron.sudhausen 5/17/2012 8:20:51 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\HVB-CT-1129-H.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	S89°27'49"E	4000.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

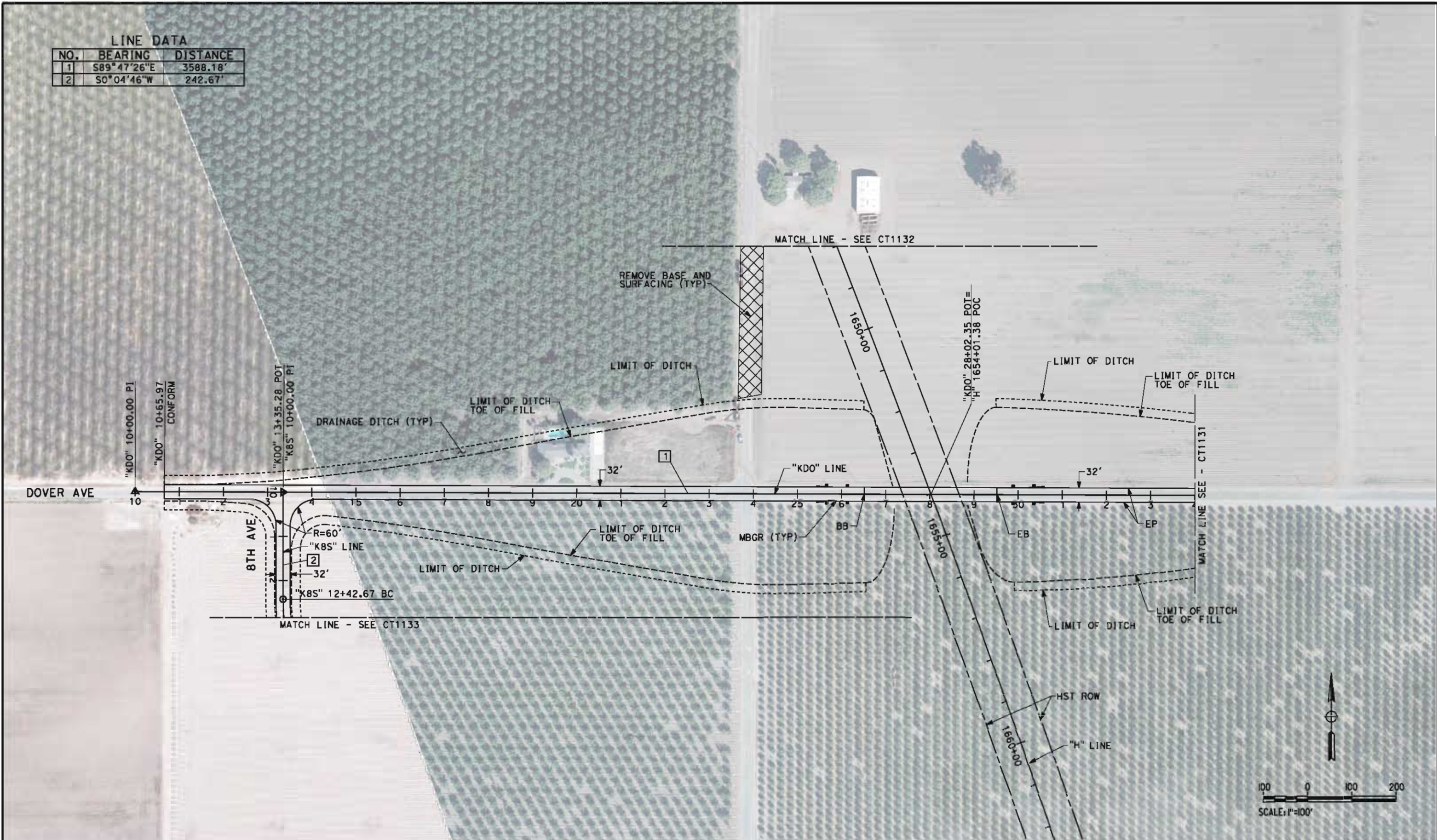


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
CAIRO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1129
SCALE AS SHOWN
SHEET NO. 13 OF 69

\\global\america\cas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HVPB-CT-1130-H.dgn 5/17/2012 8:20:58 PM

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°47'26"E	3588.18'
2	S0°04'46"W	242.67'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
DOVER AVE

CONTRACT NO. HST 06-0003
DRAWING NO. CT1130
SCALE AS SHOWN
SHEET NO. 14 OF 69

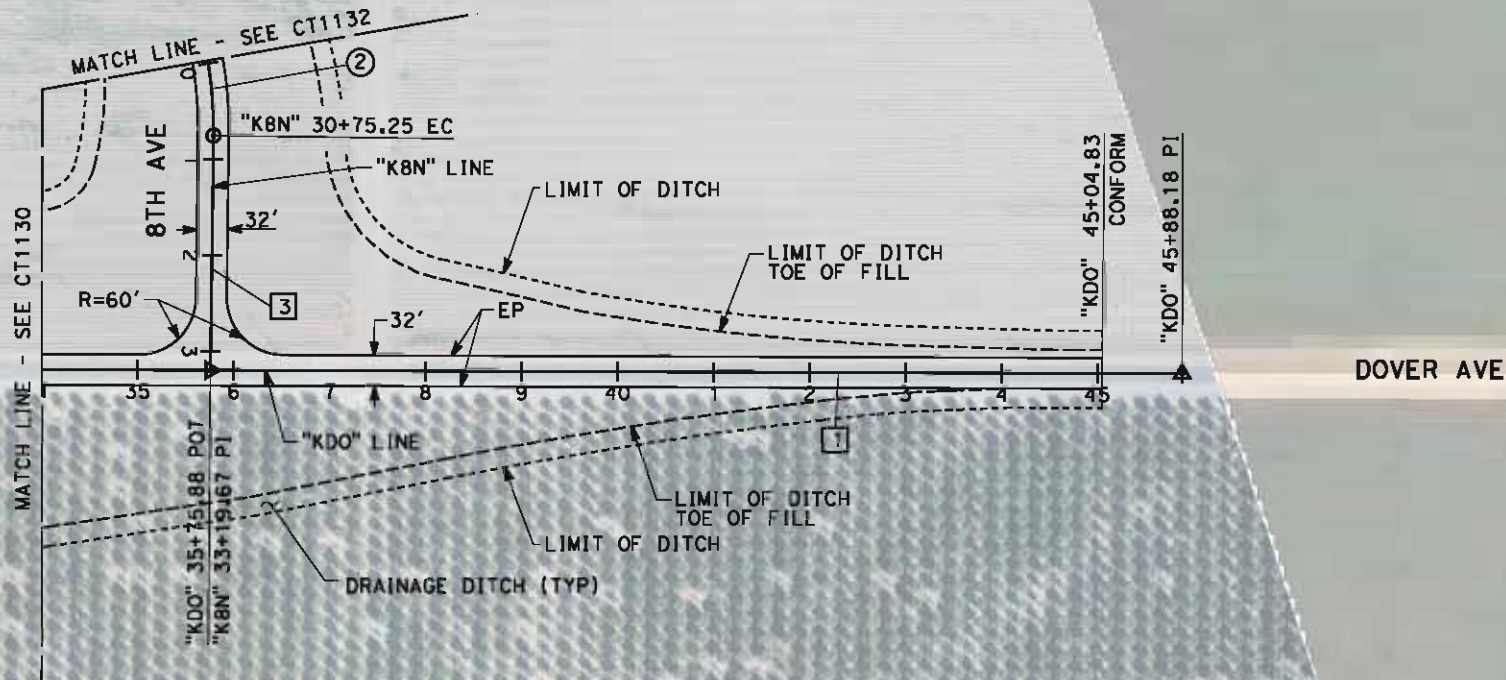
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LINE DATA

NO.	BEARING	DISTANCE
1	S89°47'26"E	3588.18'
3	S0°44'50"W	244.42'

CURVE DATA

NO.	R	Δ	T	L	V
(2)	425.00'	83°11'29"	377.27'	617.08'	35 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

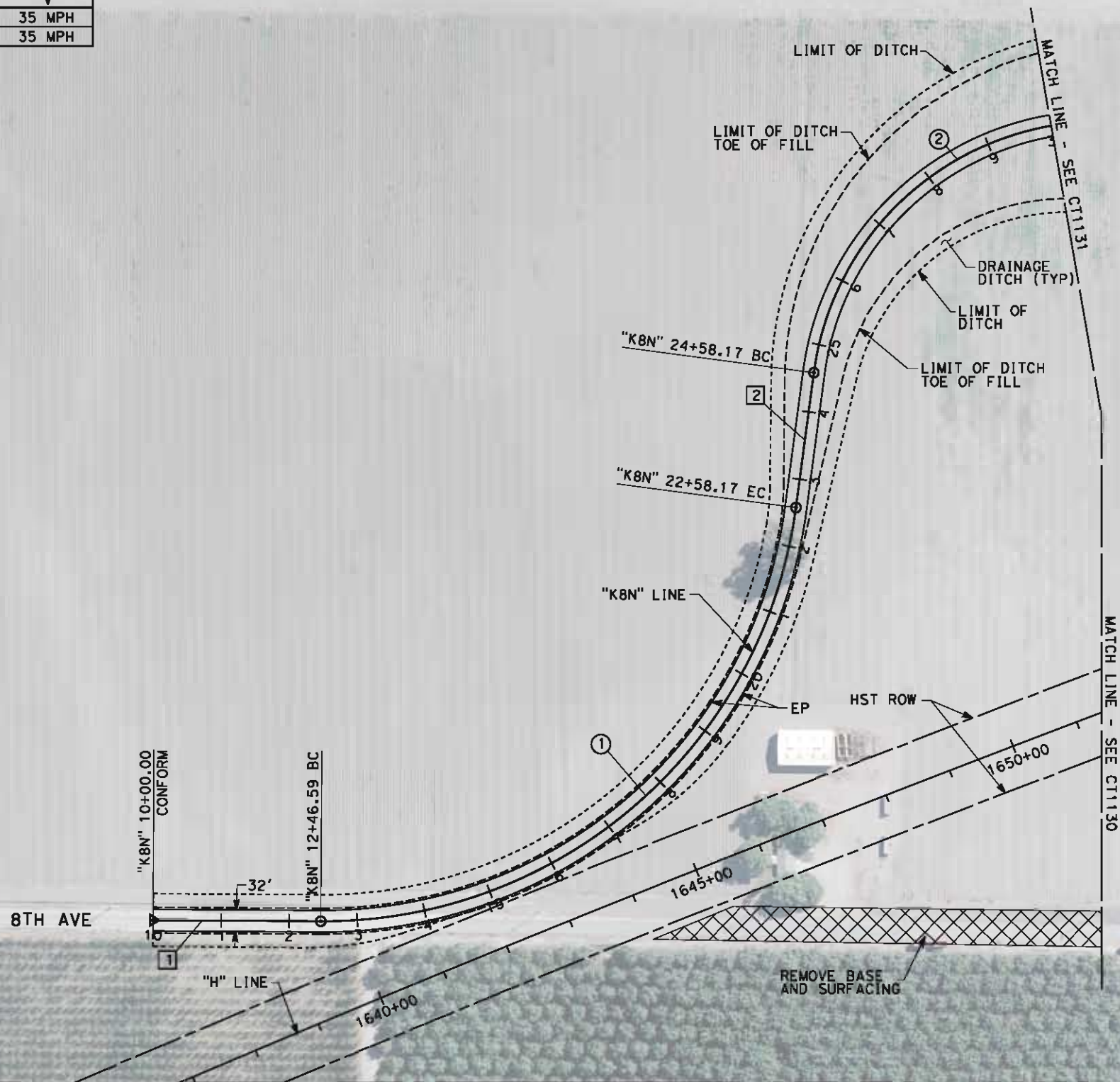


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
DOVER AVE

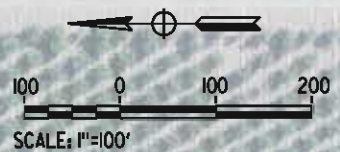
CONTRACT NO. HST 06-0003
DRAWING NO. CT1131
SCALE AS SHOWN
SHEET NO. 15 OF 69

LINE DATA		
NO.	BEARING	DISTANCE
1	S00°21'19"W	246.59'
2	S82°26'38"E	200.00'

CURVE DATA					
NO.	R	Δ	T	L	V
(1)	700.00'	82°47'57"	617.12'	1011.58'	35 MPH
(2)	425.00'	83°11'29"	377.27'	617.08'	35 MPH



DOVER AVE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

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



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
8TH AVE (NORTH)

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1132
SCALE	AS SHOWN
SHEET NO.	16 OF 69

eran.sudhausen 5/17/2012 8:21:17 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Date\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\HV-B-CT-1133-H.dgn

DOVER AVE

MATCH LINE - SEE CT1130

REMOVE BASE
AND SURFACING

EP

"K8S" LINE

"K8S" 20+08.71 BC

"K8S" 18+08.71 EQ

32'

"K8S" 29+44.38 EC

"K8S" 31+94.38 PI
"K8S" 31+92.71
CONFORM

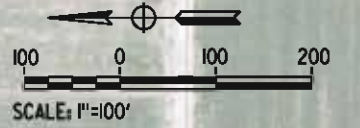
8TH AVE

LINE DATA

NO.	BEARING	DISTANCE
3	S76°13'50"E	200.00'
4	S0°21'19"W	250.00'

CURVE DATA

NO.	R	Δ	T	L	V
②	425.00'	76°18'37"	333.90'	566.04'	35 MPH
③	700.00'	76°35'09"	552.69'	935.67'	35 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
8TH AVE (SOUTH)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1133
SCALE AS SHOWN
SHEET NO. 17 OF 69

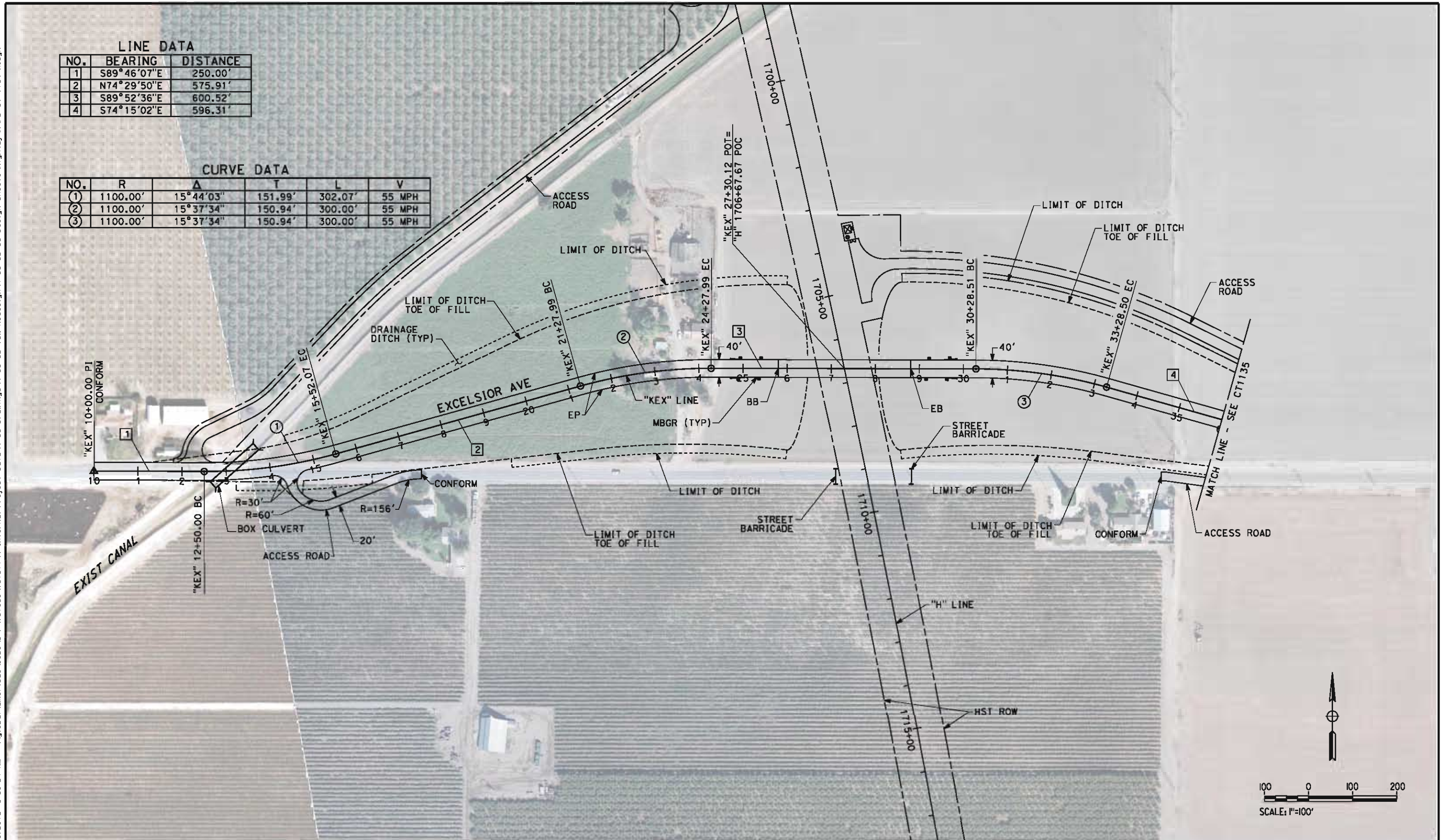
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LINE DATA

NO.	BEARING	DISTANCE
1	S89°46'07"E	250.00'
2	N74°29'50"E	575.91'
3	S89°52'36"E	600.52'
4	S74°15'02"E	596.31'

CURVE DATA

NO.	R	Δ	T	L	V
①	1100.00'	15°44'03"	151.99'	302.07'	55 MPH
②	1100.00'	15°37'34"	150.94'	300.00'	55 MPH
③	1100.00'	15°37'34"	150.94'	300.00'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



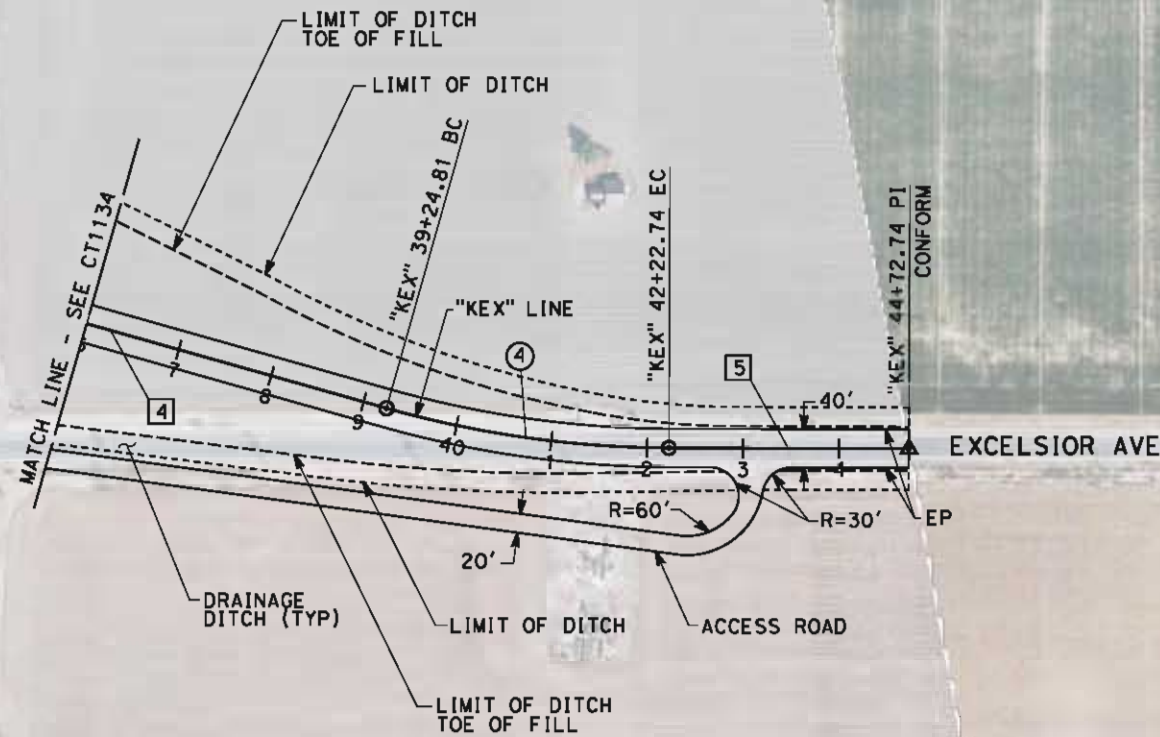
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
EXCELSIOR AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1134
SCALE AS SHOWN
SHEET NO. 18 OF 69

\\global\america\jobs\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HFB-CT-1135-H.dgn 5/17/2012 8:21:31 PM

LINE DATA		
NO.	BEARING	DISTANCE
4	S74°15'02"E	596.31'
5	S89°46'07"E	250.00'

CURVE DATA					
NO.	R	Δ	T	L	V
(4)	1100.00'	15°31'05"	149.88'	297.93'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



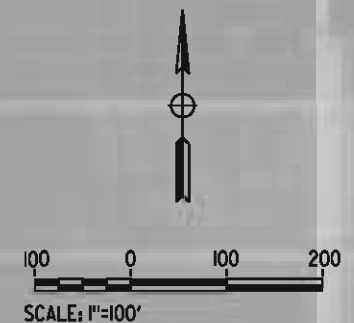
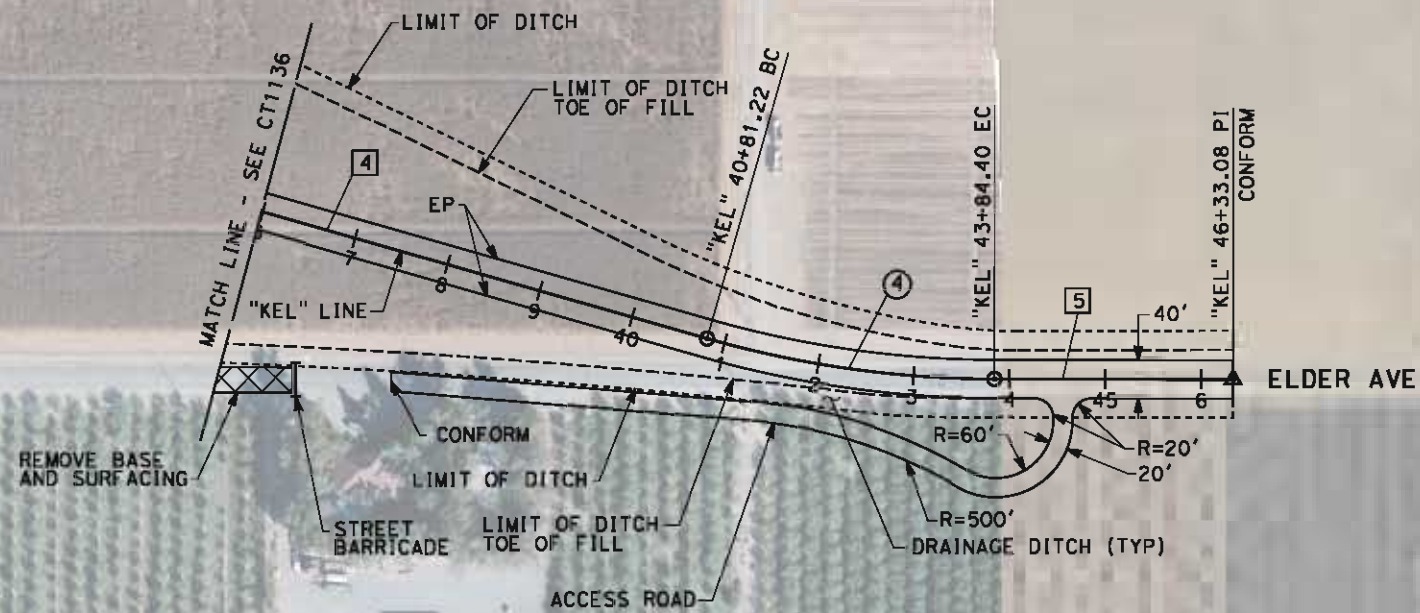
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
EXCELSIOR AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1135
SCALE
AS SHOWN
SHEET NO.
19 OF 69

5/17/2012 8:21:43 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-1137-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
4	S74°05'35"E	560.07'
5	N89°53'06"E	248.68'

CURVE DATA					
NO.	R	Δ	T	L	V
(4)	1100.00'	15°47'31"	152.56'	303.18'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
ELDER AVE

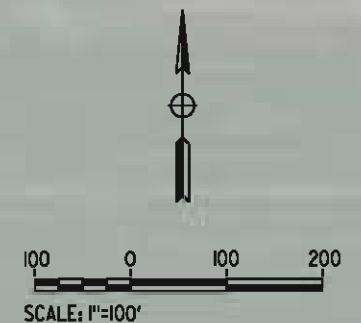
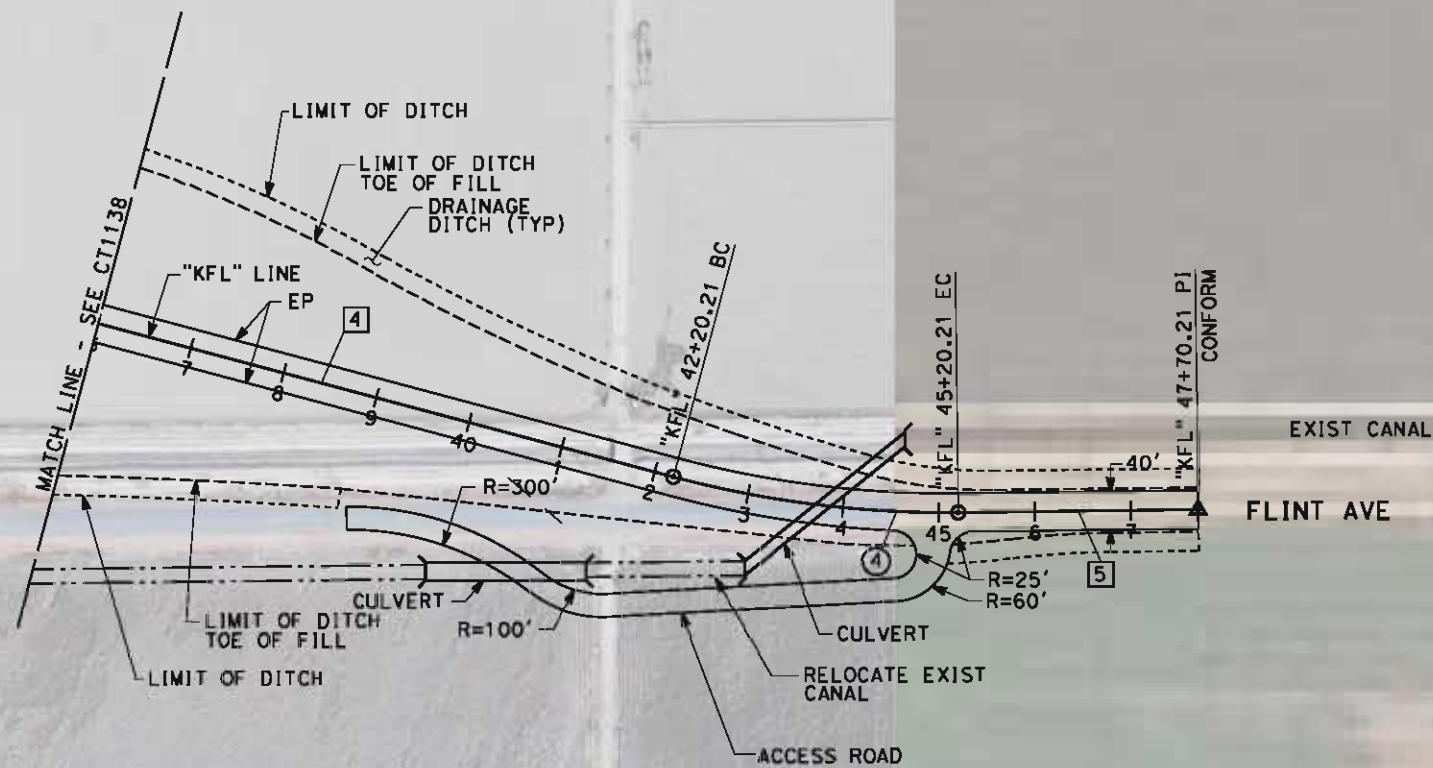
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1137
SCALE AS SHOWN
SHEET NO. 21 OF 69

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1138
SCALE	AS SHOWN
SHEET NO.	22 OF 69

eran-sudhausen 5/17/2012 8:21:55 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-1139-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
4	S75°03'57"E	635.11'
5	N89°18'29"E	250.00'

CURVE DATA					
NO.	R	Δ	T	L	V
(4)	1100.00'	15°37'34"	150.94'	300.00'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H GRADE SEPARATION LAYOUT FLINT AVE

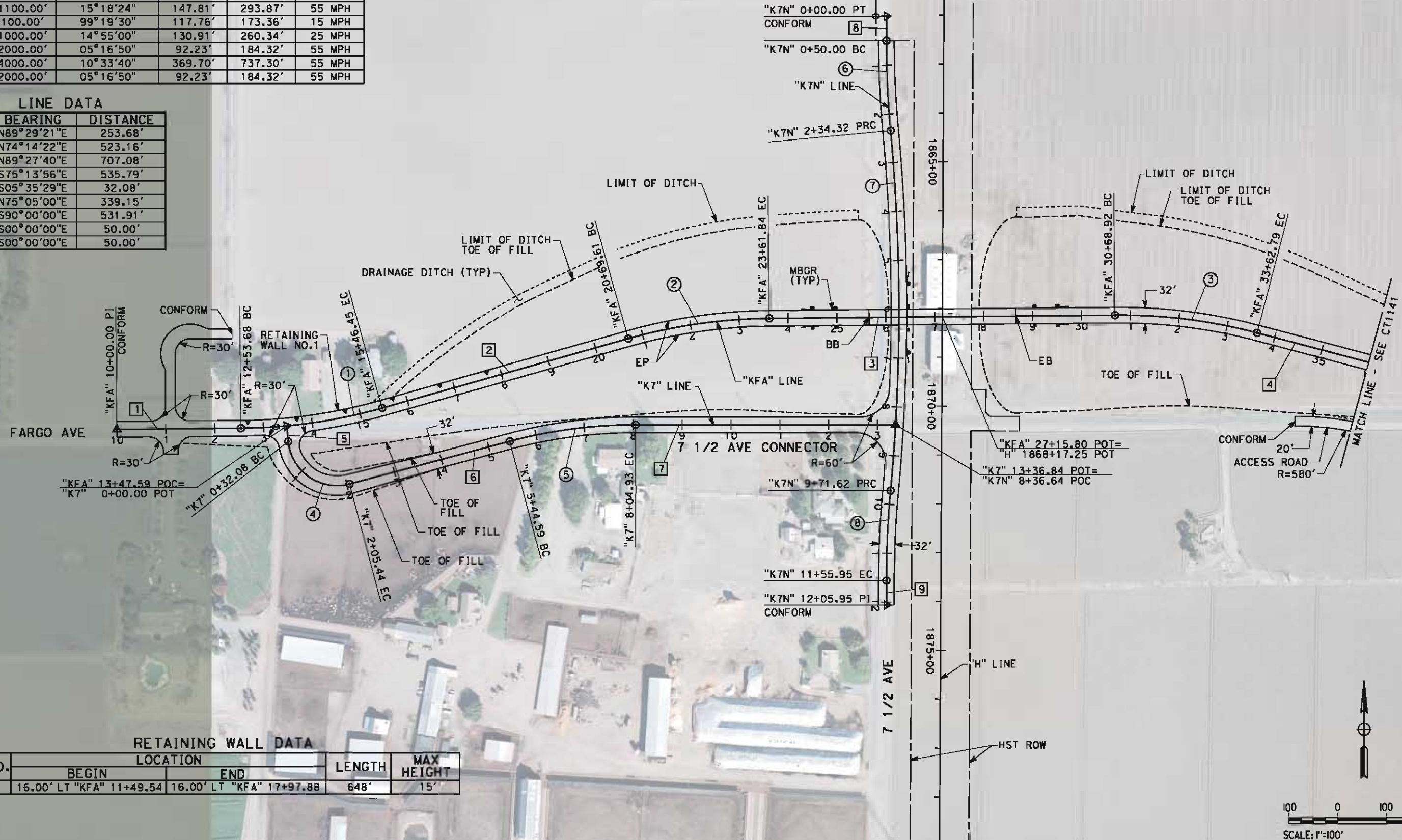
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1139
SCALE AS SHOWN
SHEET NO. 23 OF 69

\\global\americas\Jobs\AS-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-1140-H.dgn 5/17/2012 8:22:01 PM

CURVE DATA					
NO.	R	Δ	T	L	V
①	1100.00'	15°14'58"	147.26'	292.77'	55 MPH
②	1100.00'	15°13'18"	146.98'	292.23'	55 MPH
③	1100.00'	15°18'24"	147.81'	293.87'	55 MPH
④	100.00'	99°19'30"	117.76'	173.36'	15 MPH
⑤	1000.00'	14°55'00"	130.91'	260.34'	25 MPH
⑥	2000.00'	05°16'50"	92.23'	184.32'	55 MPH
⑦	4000.00'	10°33'40"	369.70'	737.30'	55 MPH
⑧	2000.00'	05°16'50"	92.23'	184.32'	55 MPH

LINE DATA		
NO.	BEARING	DISTANCE
1	N89°29'21"E	253.68'
2	N74°14'22"E	523.16'
3	N89°27'40"E	707.08'
4	S75°13'56"E	535.79'
5	S05°35'29"E	32.08'
6	N75°05'00"E	339.15'
7	S90°00'00"E	531.91'
8	S00°00'00"E	50.00'
9	S00°00'00"E	50.00'

RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	16.00' LT "KFA" 11+49.54	16.00' LT "KFA" 17+97.88	648'	15'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



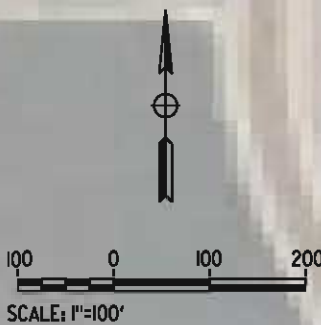
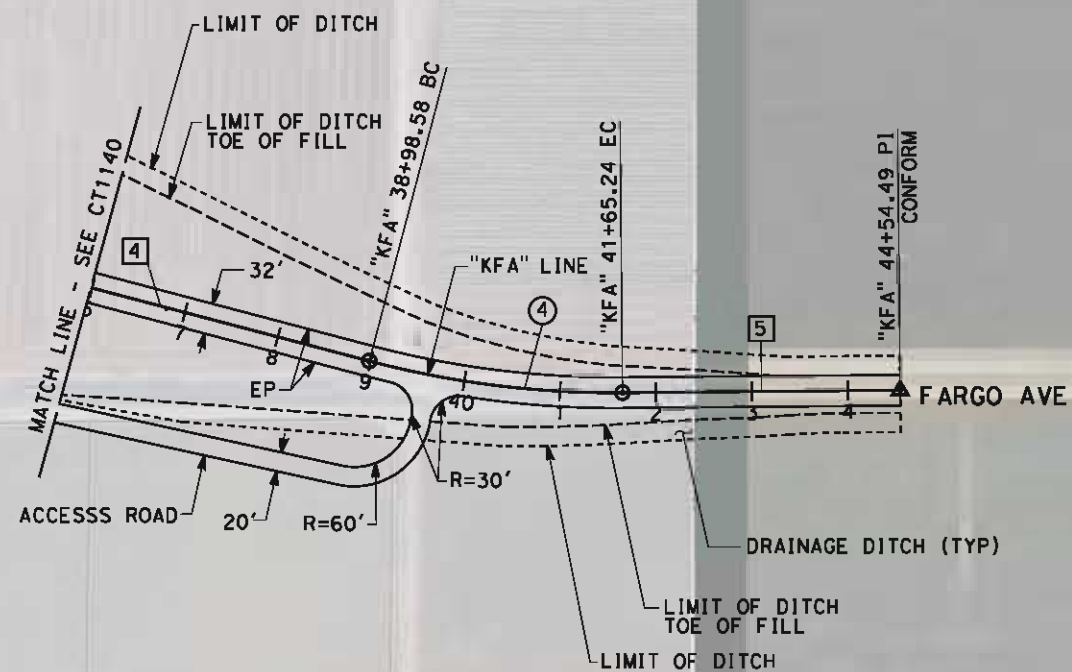
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
FARGO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1140
SCALE AS SHOWN
SHEET NO. 24 OF 69

eron.sudhausen 5/17/2012 8:22:07 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-1141-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
4	S74°13'56"E	535.79'
5	N89°29'21"E	289.25'

CURVE DATA					
NO.	R	Δ	T	L	V
(4)	1000.00'	15°16'43"	134.13'	266.66'	55 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

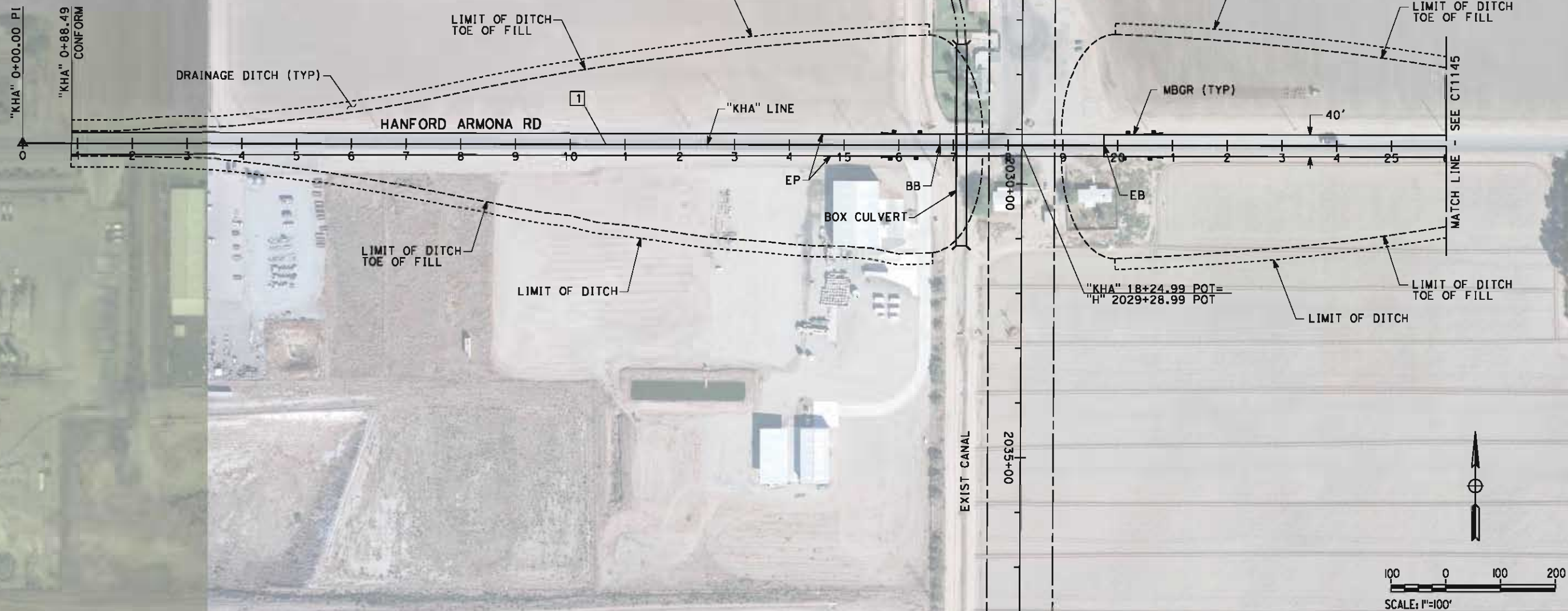


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
FARGO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1141
SCALE AS SHOWN
SHEET NO. 25 OF 69

eran.sudhausen 5/17/2012 8:22:13 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HVB-CT-1144-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°52'53"E	3650.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



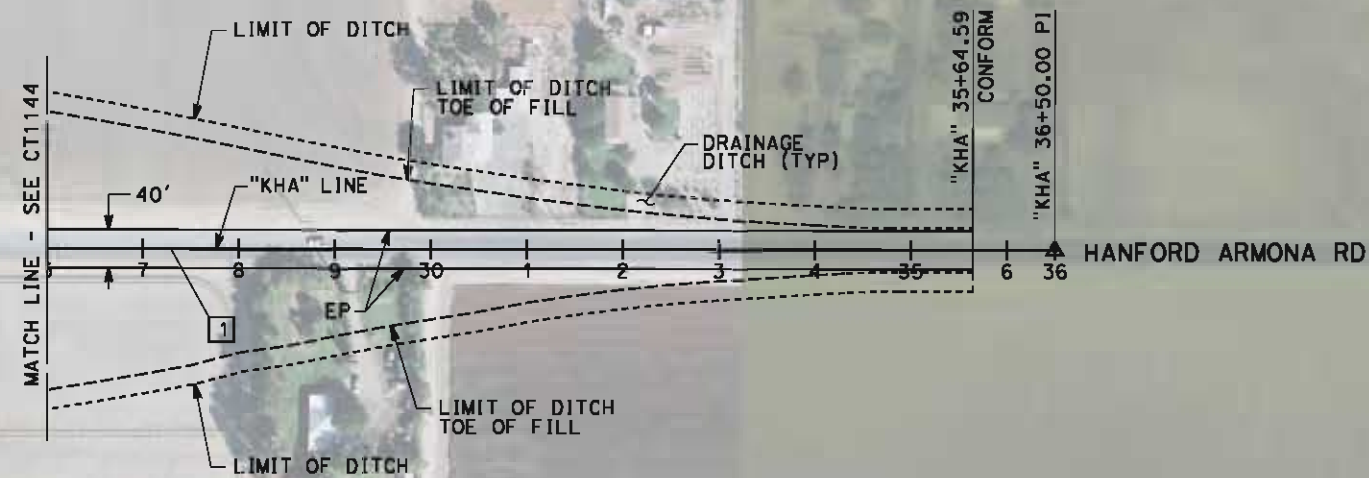
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
HANFORD ARMONA RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1144
SCALE AS SHOWN
SHEET NO. 26 OF 69

eron.sudhausen 5/17/2012 8:22:17 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HVB-CT-1145-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°52'53"E	3650.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

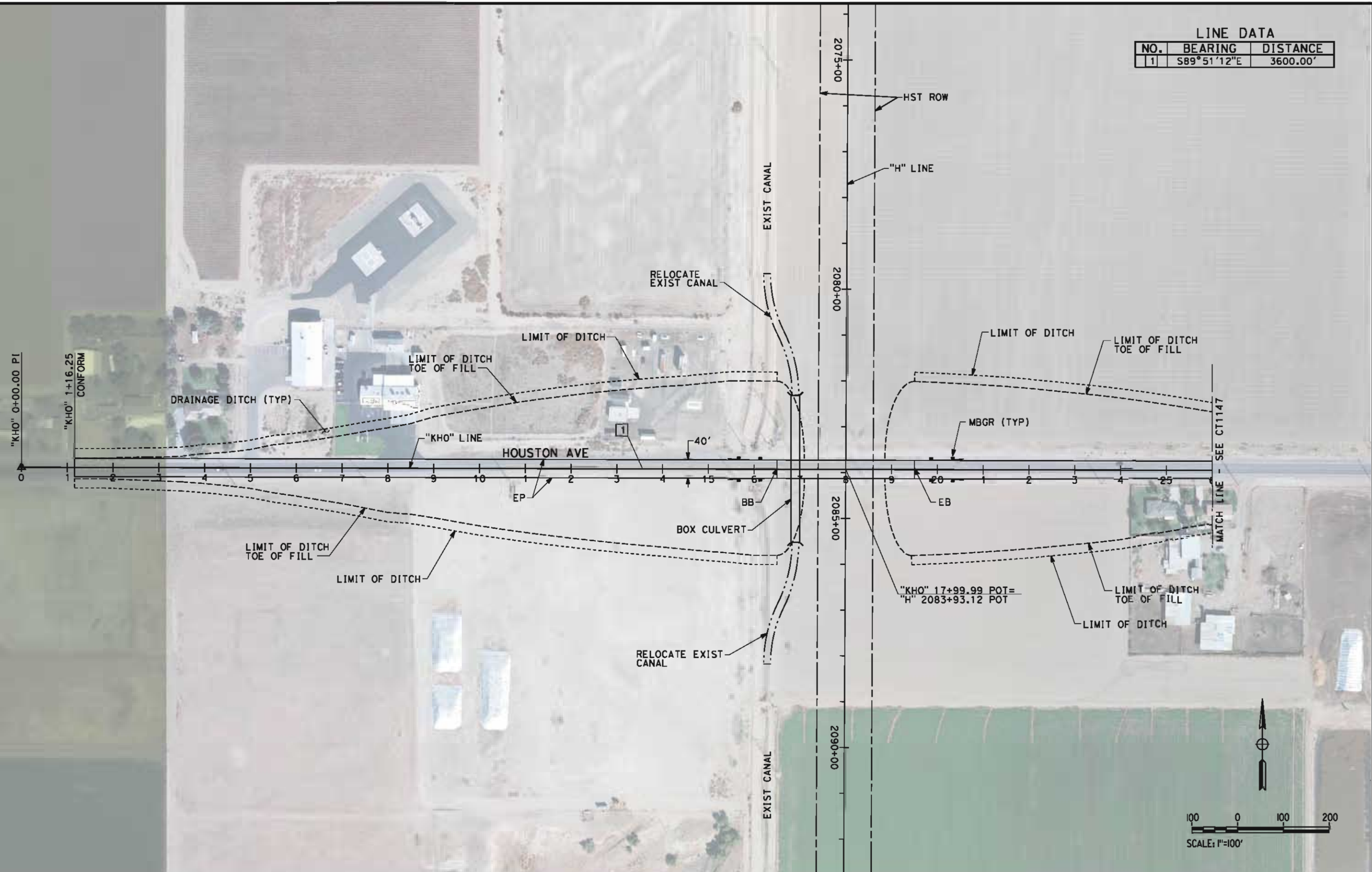
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H GRADE SEPARATION LAYOUT HANFORD ARMONA RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1145
SCALE AS SHOWN
SHEET NO. 27 OF 69

\\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HFB-CT-1146-H.dgn 5/17/2012 8:22:24 PM



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°51'12"E	3600.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

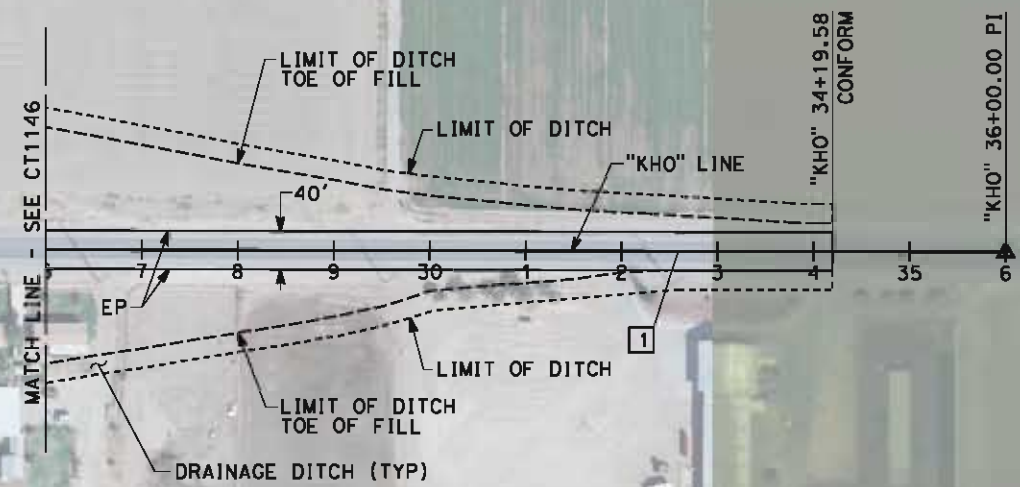


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
HOUSTON AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1146
SCALE AS SHOWN
SHEET NO. 28 OF 69

eron.sudhausen 5/17/2012 8:22:30 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-1147-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°51'12"E	3600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

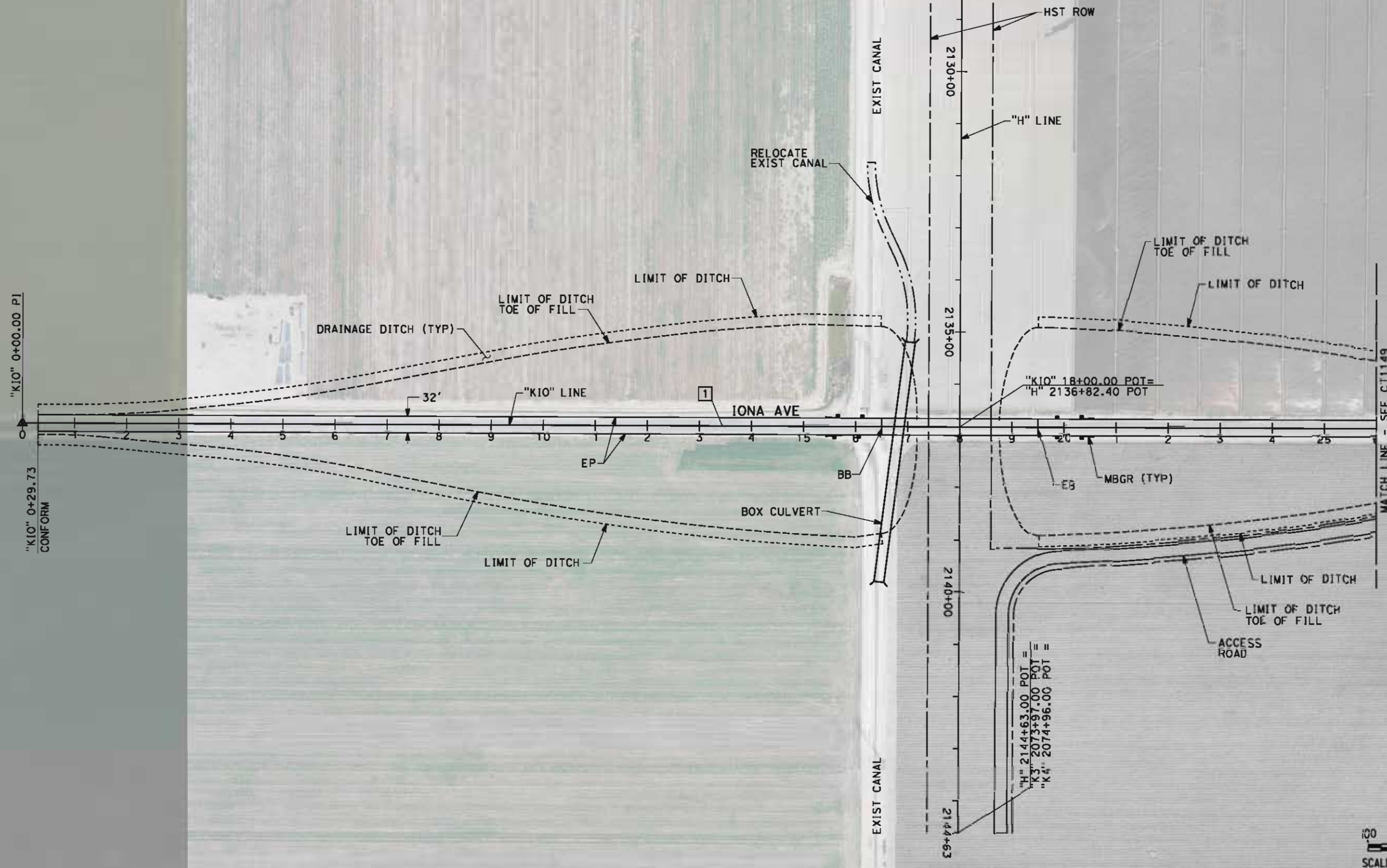


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H GRADE SEPARATION LAYOUT HOUSTON AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1147
SCALE AS SHOWN
SHEET NO. 29 OF 69

\\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HFB-CT-1148-H.dgn 5/18/2012 10:00:35 AM

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°45'10"E	3600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



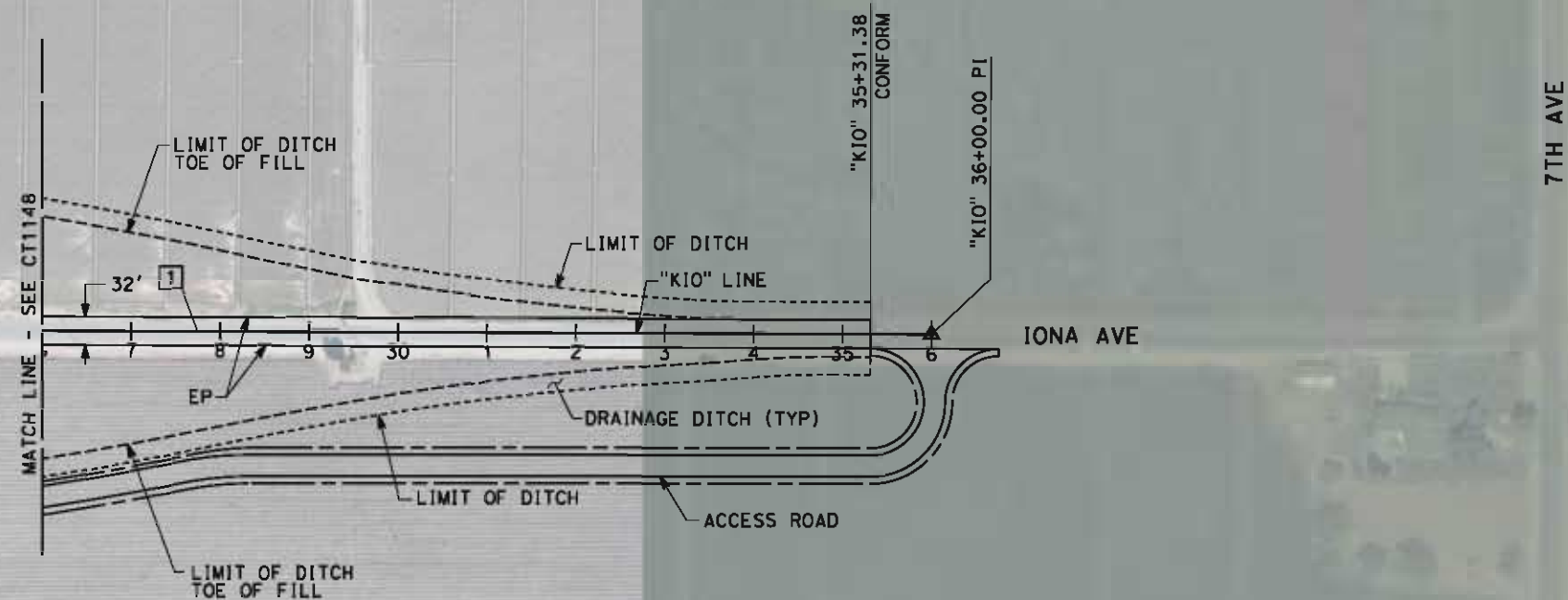
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
IONA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1148
SCALE AS SHOWN
SHEET NO. 30 OF 69

eran-sudhausen 5/17/2012 8:22:42 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Design Sheets\Highway\HVB-CT-1149-H.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°45'10"E	3600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



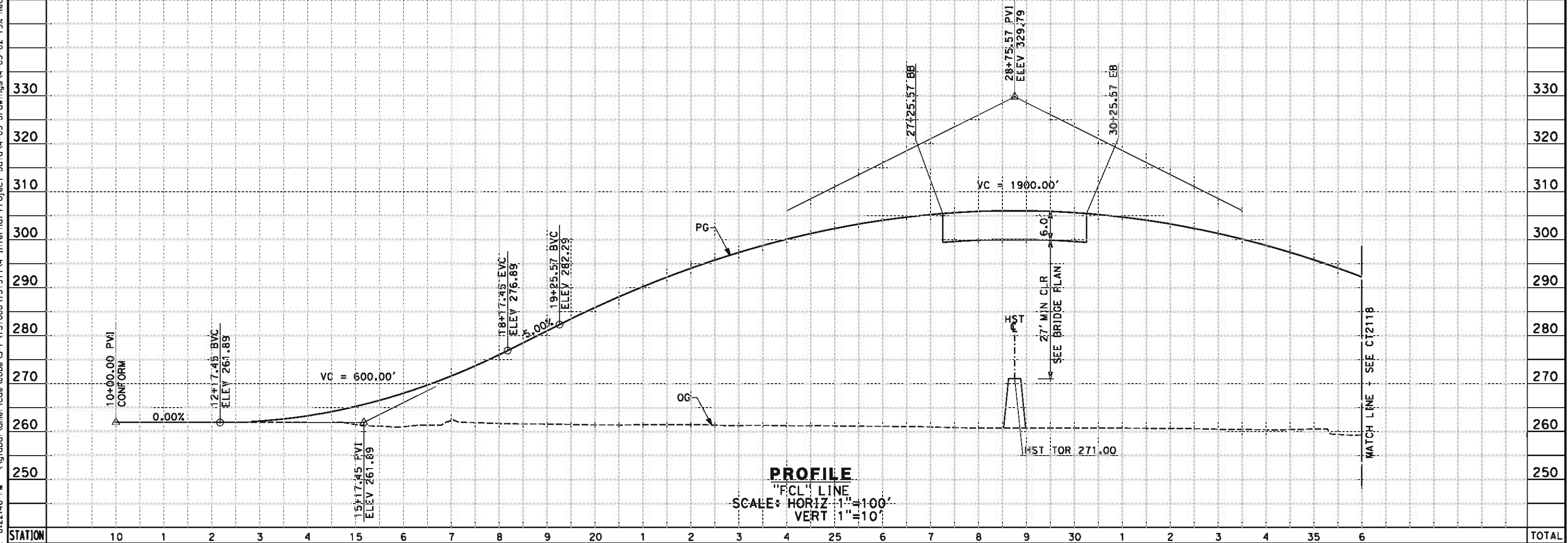
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H GRADE SEPARATION LAYOUT IONA AVE
--

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1149
SCALE AS SHOWN
SHEET NO. 31 OF 69

eron.sudhausen 5/17/2012 8:22:46 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2117-H.dgn

NOTES:

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	TOTAL	
CY	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

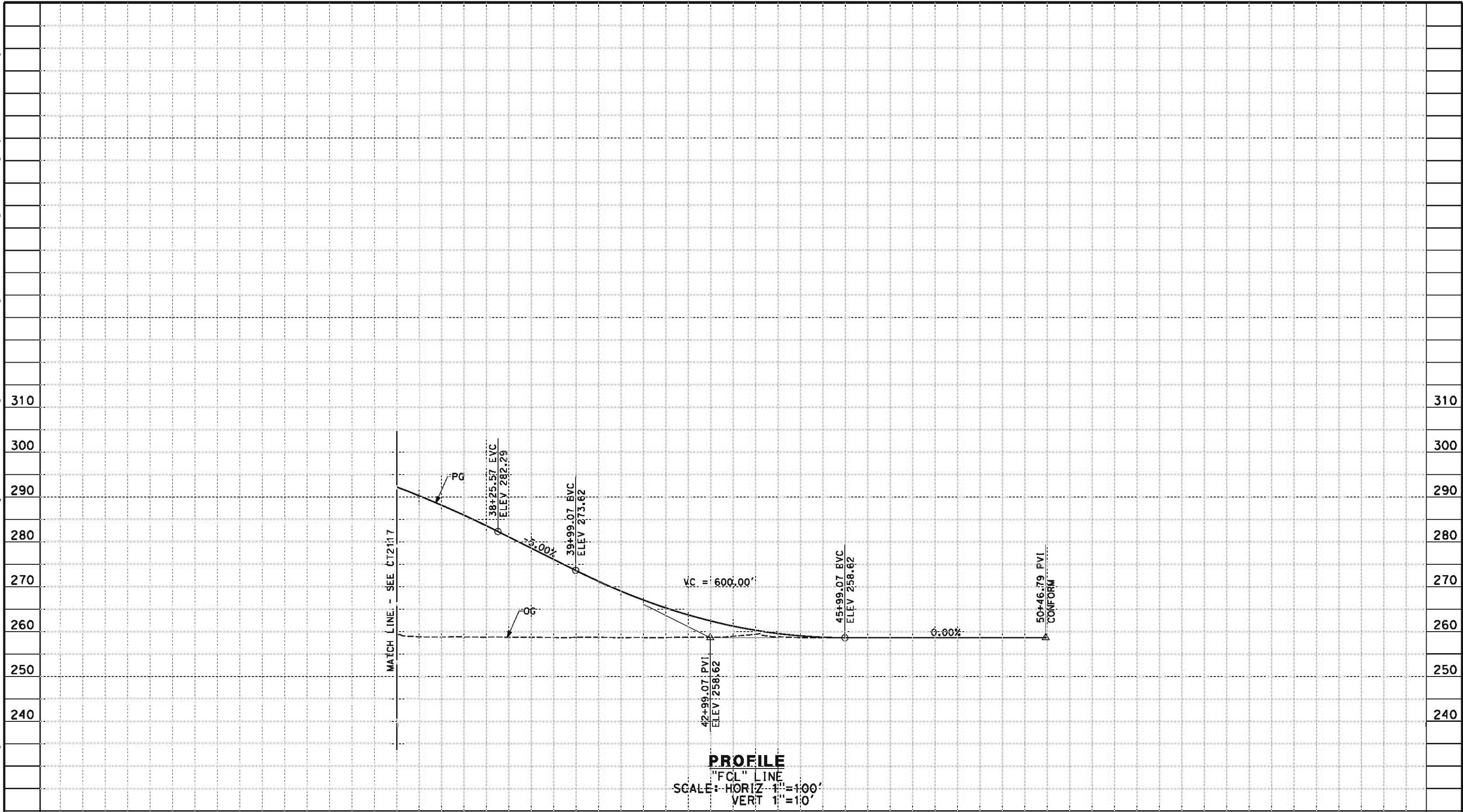
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
S CLOVIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2117
SCALE
AS SHOWN
SHEET NO.
32 OF 69

eron.sudhausen 5/17/2012 8:22:46 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2118-H.dgn



STATION		6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	TOTAL
CY	Exc																	
	Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

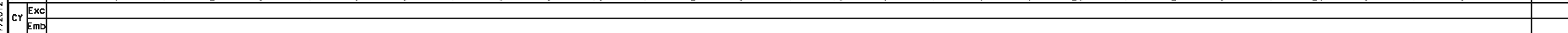


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

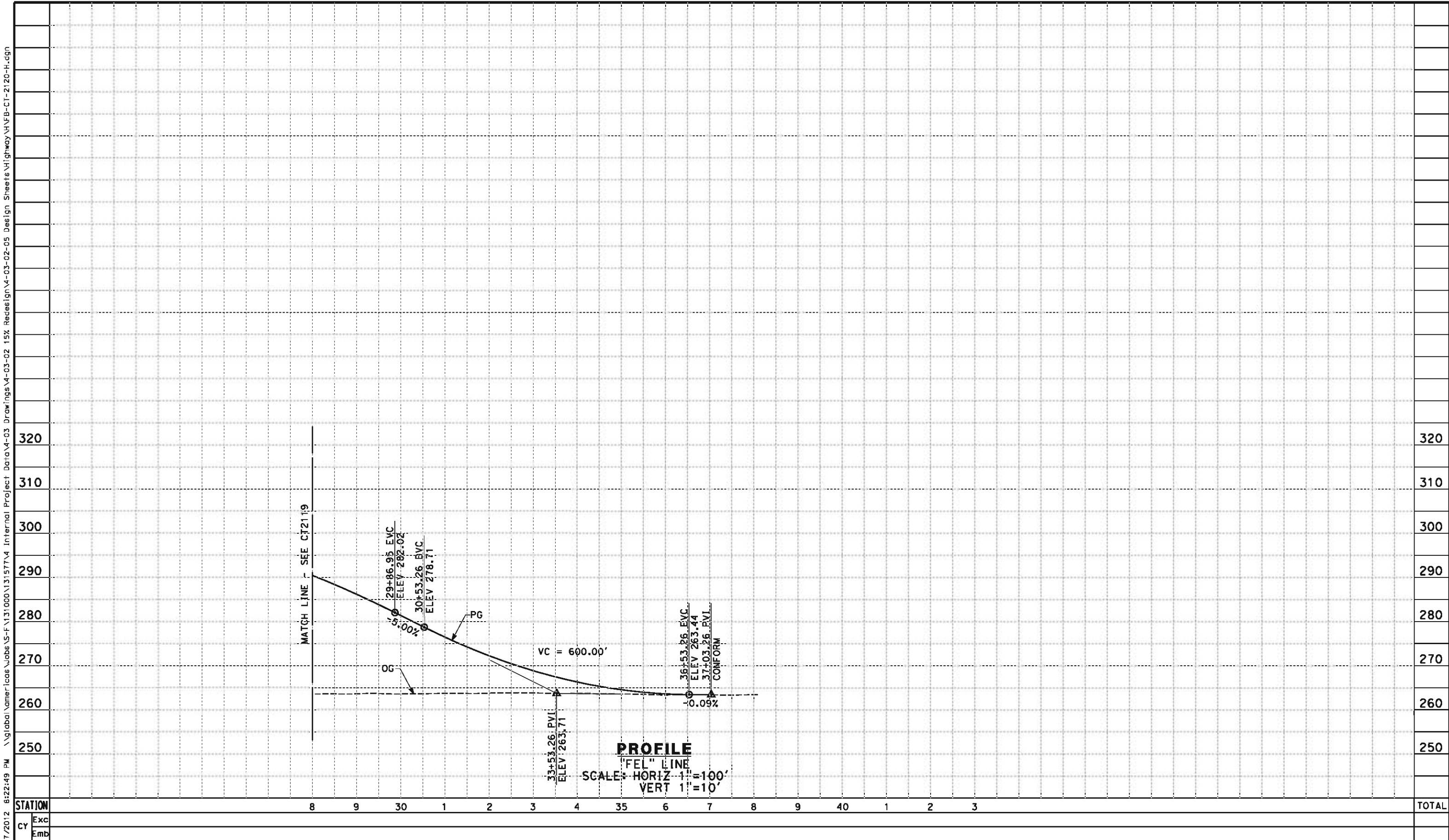
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
S CLOVIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2118
SCALE AS SHOWN
SHEET NO. 33 OF 69

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
~~3. OG IS BASED UPON APPROXIMATED INTERMAP DTM~~

[illegible]

eron.sudhausen 5/17/2012 8:22:49 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2120-H.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



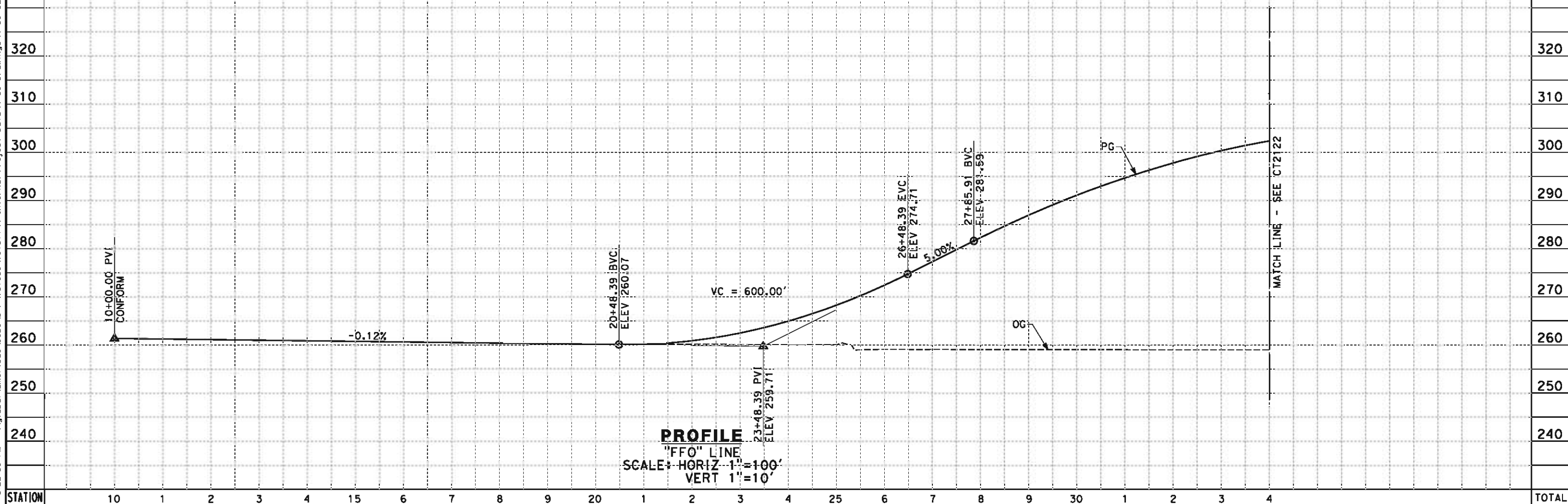
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
E ELKHORN AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2120
SCALE
AS SHOWN
SHEET NO.
35 OF 69

eron.sudhausen 5/17/2012 8:22:50 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2121-H.dgn

NOTES:

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	TOTAL
CY	Exc																										
	Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

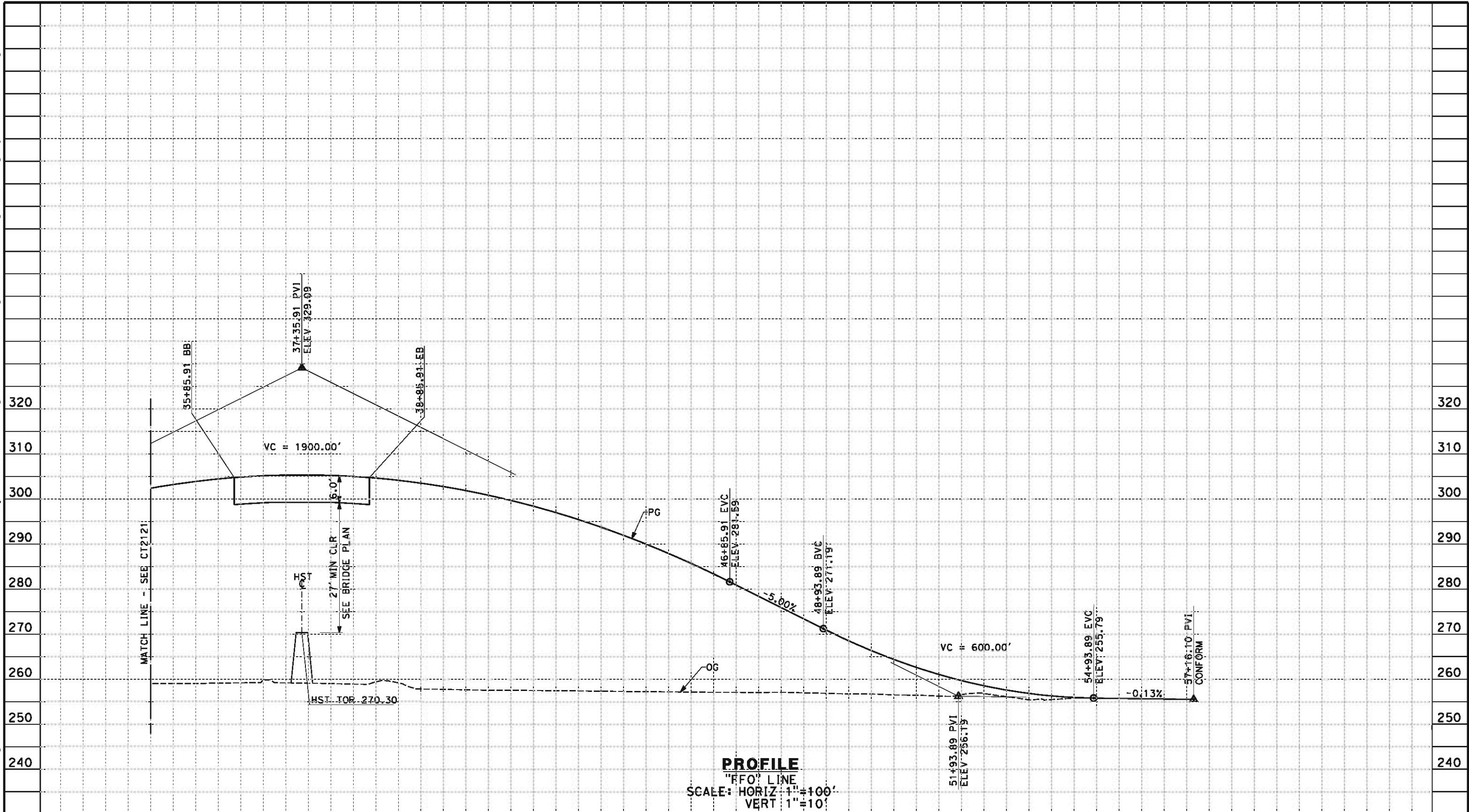
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
S FOWLER AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2121
SCALE
AS SHOWN
SHEET NO.
36 OF 69

eron.sudhausen 5/17/2012 8:22:50 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2122-H.dgn



STATION		4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	6	7	8	TOTAL
CY	Exc																										
	Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

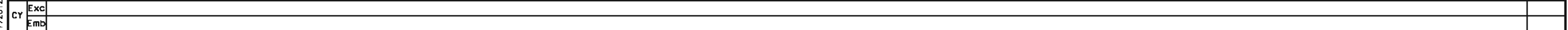
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
S FOWLER AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2122
SCALE
AS SHOWN
SHEET NO.
37 OF 69

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



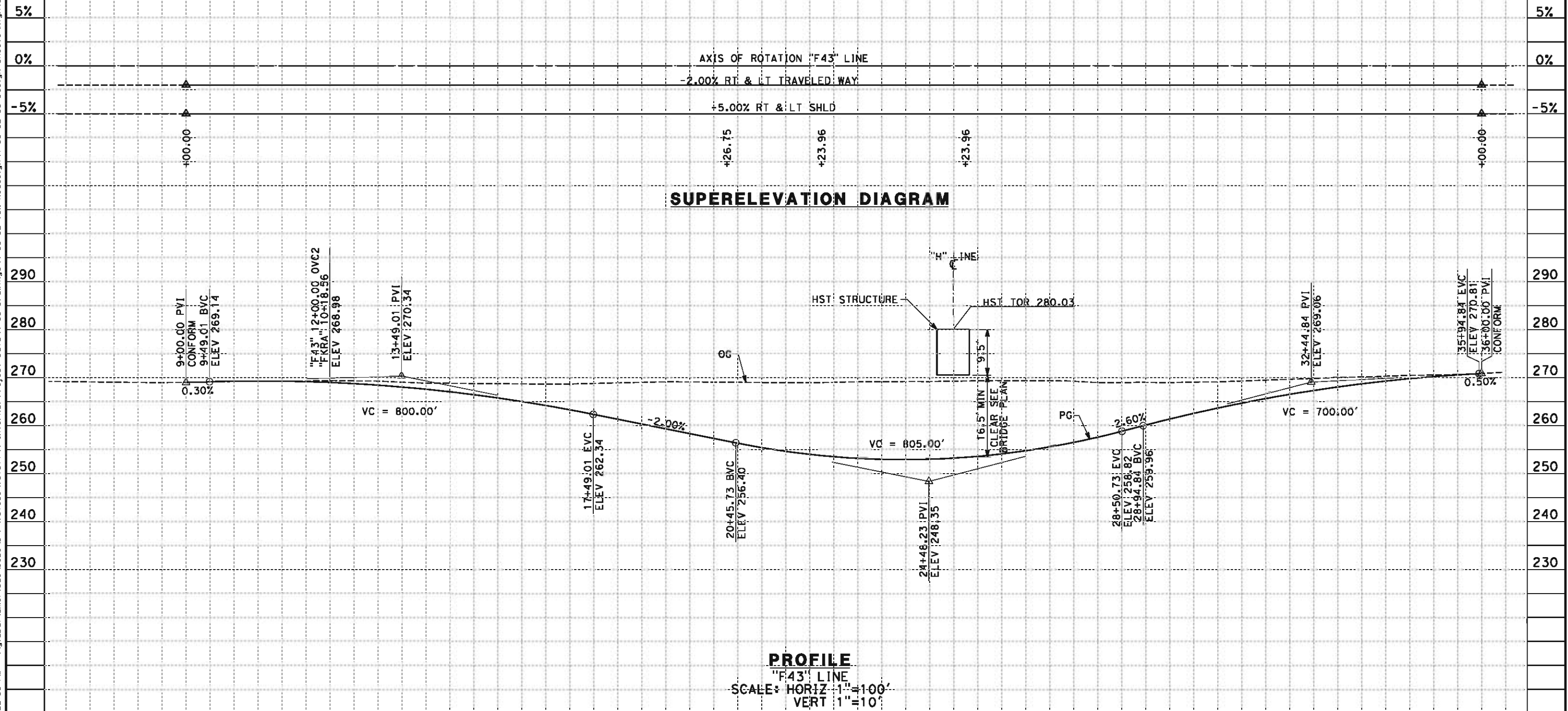
						DESIGNED BY M. BAMM	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H GRADE SEPARATION PROFILE E DAVIS AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN				DRAWING NO. CT2123
						CHECKED BY J. MONG				SCALE AS SHOWN
						IN CHARGE R. COFFIN				SHEET NO. 38 OF 69
						DATE 05/18/12				
REV	DATE	BY	CHK	APP	DESCRIPTION					

STATION		20123425678930123435678940123445																									TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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NOTES:

1. MIN VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROAD SURFACE
2. VERTICAL DESIGN SPEED = 65 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BMM
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



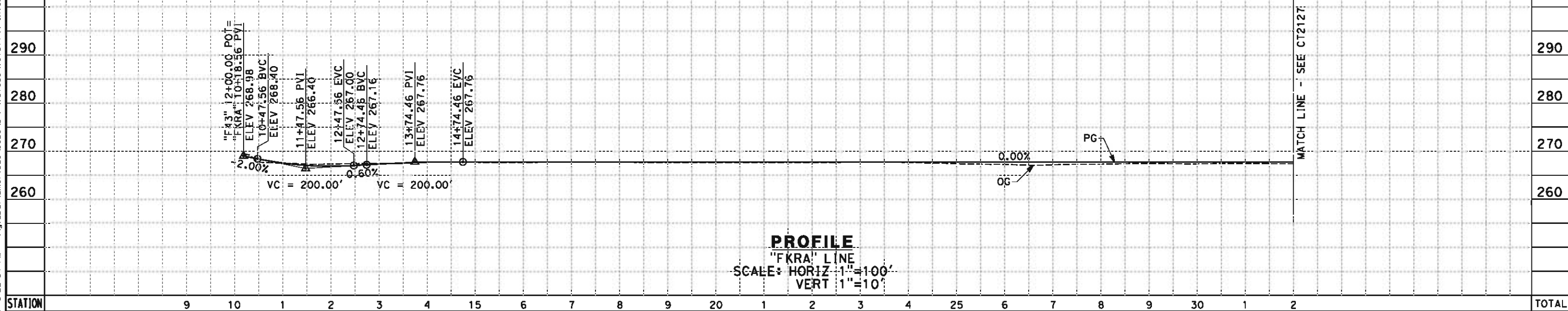
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2125
SCALE
AS SHOWN
SHEET NO.
40 OF 69

eron.sudhausen 5/17/2012 8:22:54 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2126-H.dgn

NOTES:

1. MIN VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY
2. VERTICAL DESIGN SPEED = 15 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	TOTAL
CY	Exc																									
	Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

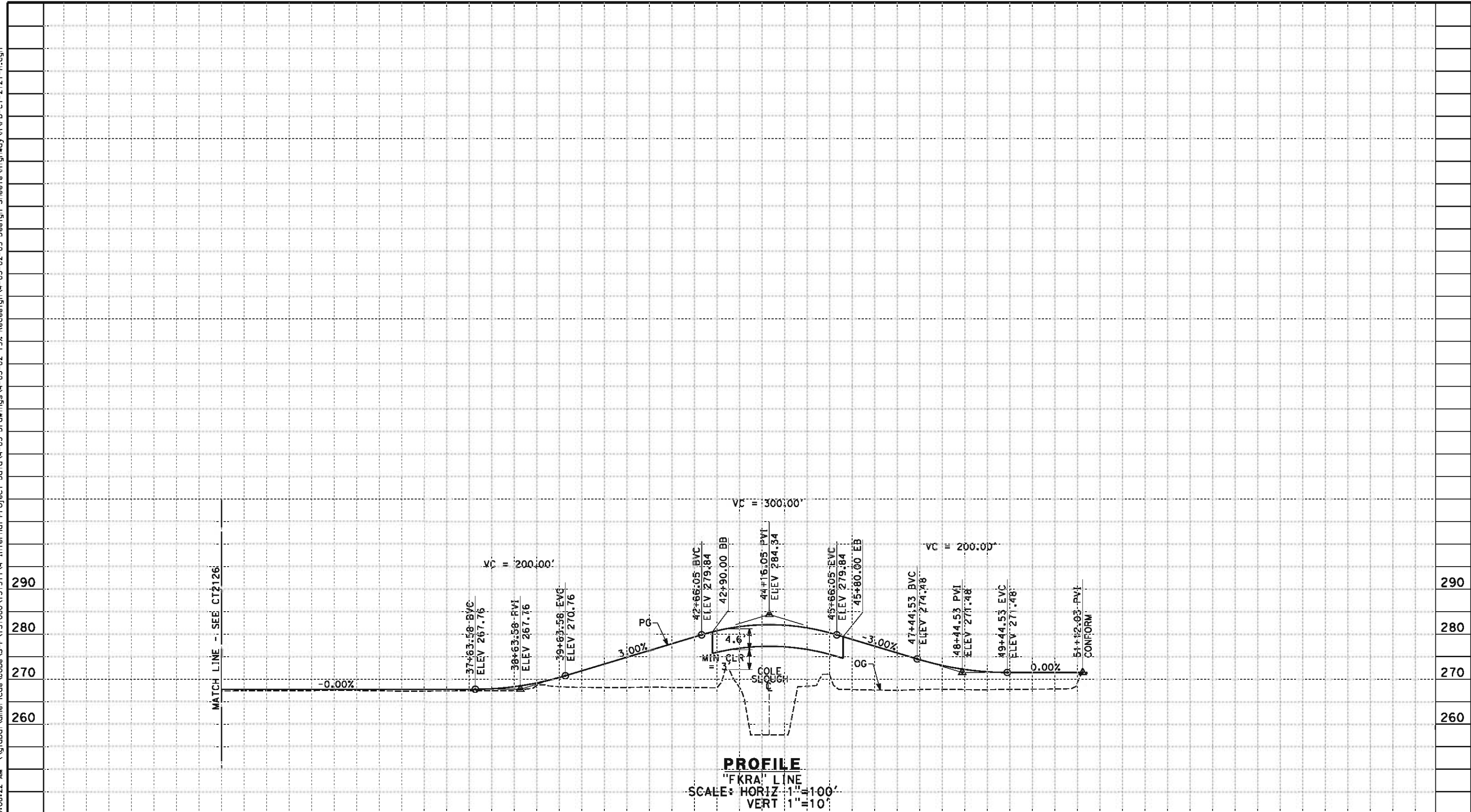
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
STATE ROUTE 43 - KINGS RIVER LEVEE ACCESS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2126
SCALE AS SHOWN
SHEET NO. 41 OF 69

eron.sudhausen 5/18/2012 10:06:22 AM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\HV-B-CT-2127-H.dgn



STATION		2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	TOTAL
CY	Exc																						
	Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

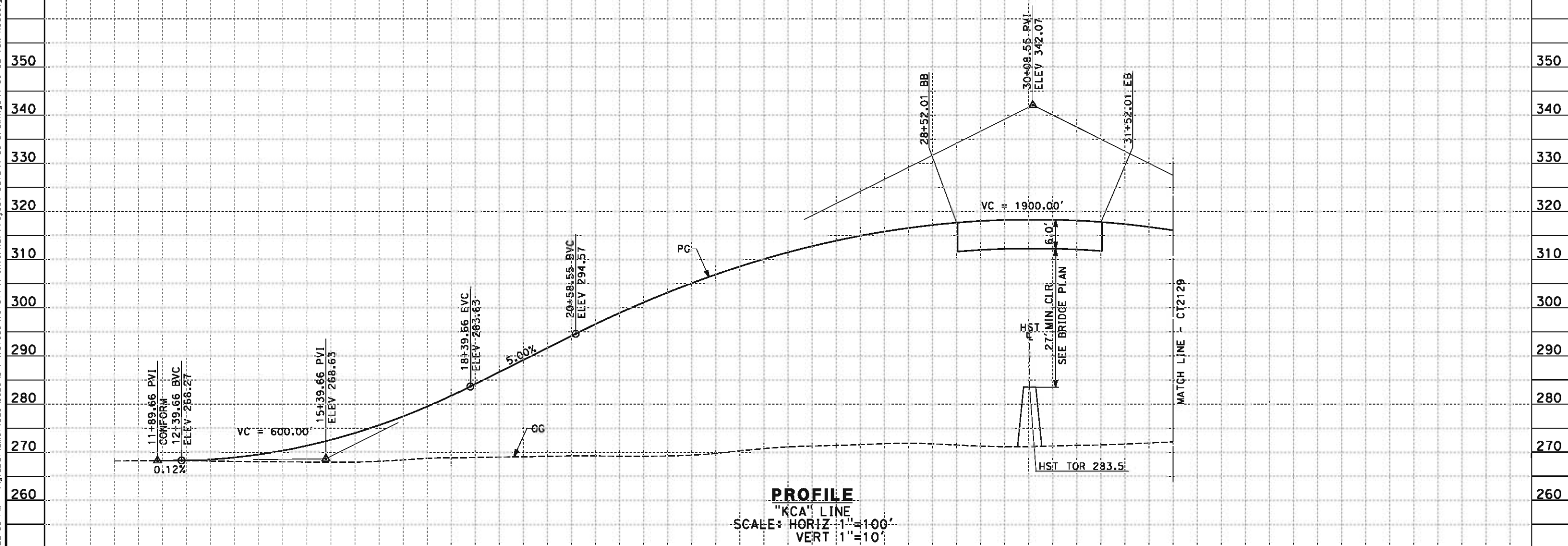


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
STATE ROUTE 43 - KINGS RIVER LEVEE ACCESS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2127
SCALE
AS SHOWN
SHEET NO.
42 OF 69

5/17/2012 8:22:55 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2128-H.dgn

- NOTES:
1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 2. VERTICAL DESIGN SPEED = 55 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION																										TOTAL
CY	Exc	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3		
	Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

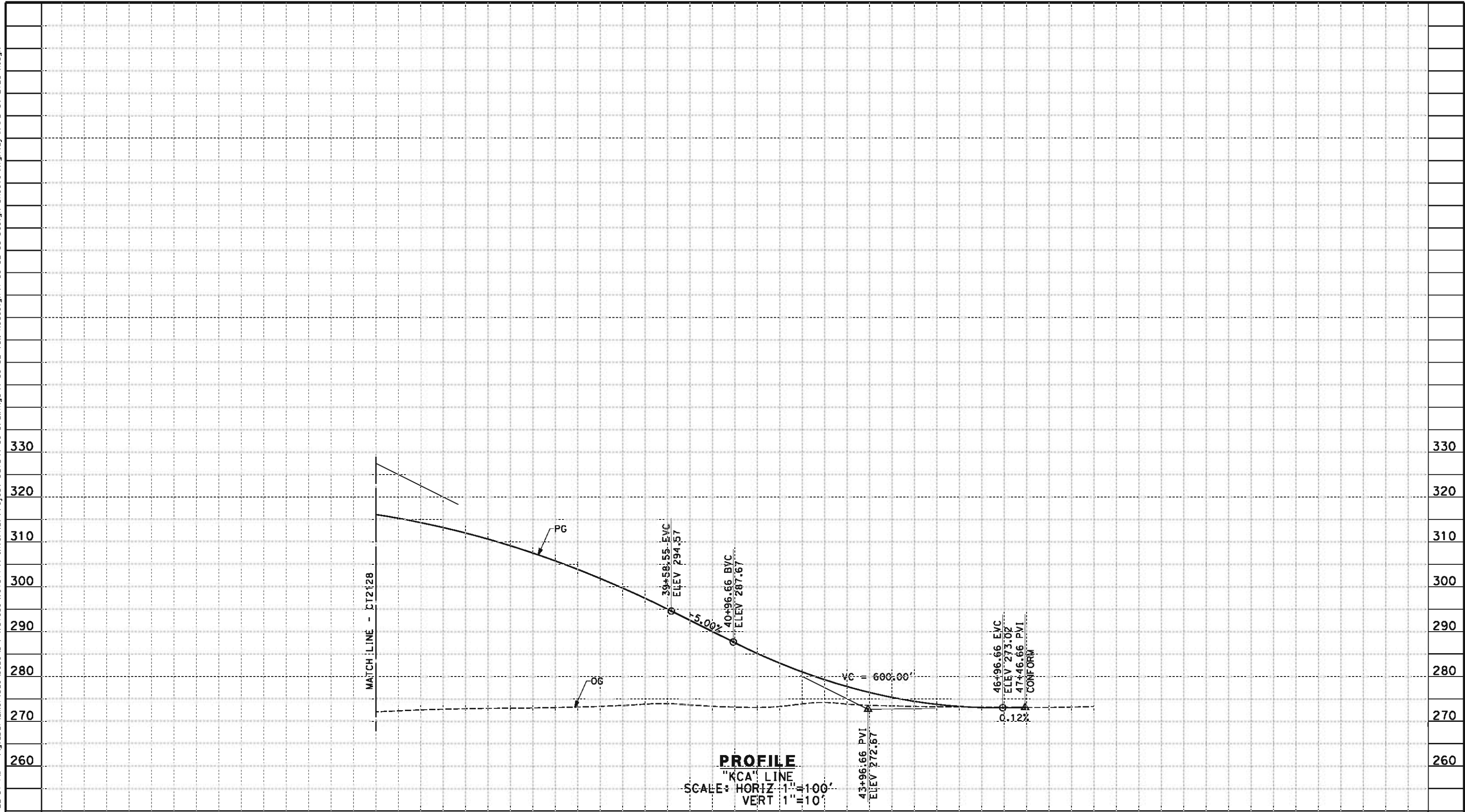
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
CAIRO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2128
SCALE
AS SHOWN
SHEET NO.
43 OF 69

eron.sudhausen 5/17/2012 8:22:57 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2129-H.dgn



STATION																		TOTAL
CY	Exc	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	
	Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

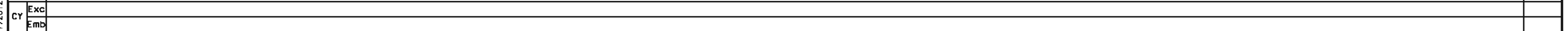


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
CAIRO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2129
SCALE AS SHOWN
SHEET NO. 44 OF 69

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. ~~OG IS BASED UPON APPROXIMATED INTERMAP DTM~~



DESIGNED BY M. BAMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12



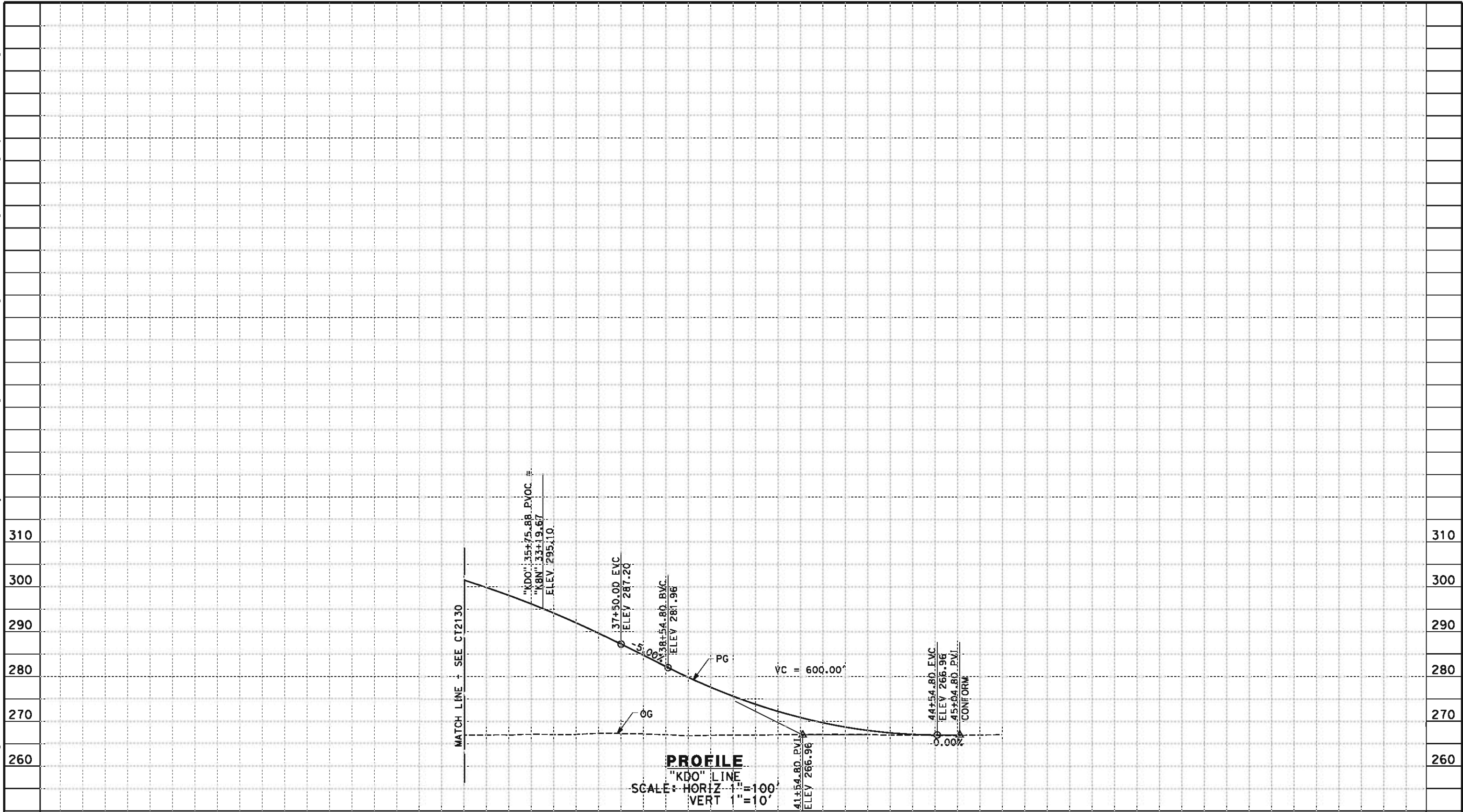
URS | HMM | ARUP



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
DOVER AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2130
SCALE	AS SHOWN
SHEET NO.	45 OF 69

eron.sudhausen 5/17/2012 8:22:58 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2131-H.dgn



STATION		4	35	6	7	8	9	40	1	2	3	4	45	6	TOTAL
CY	Exc														
	Emb														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

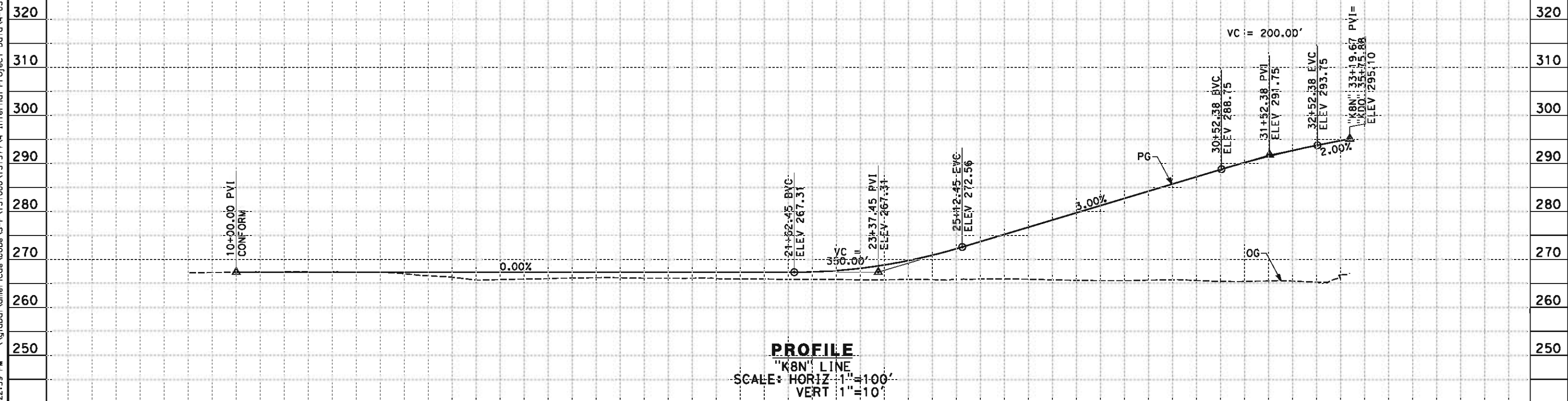


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H GRADE SEPARATION PROFILE DOVER AVE
CONTRACT NO. HSR 06-0003
DRAWING NO. CT2131
SCALE AS SHOWN
SHEET NO. 46 OF 69

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2131
SCALE AS SHOWN
SHEET NO. 46 OF 69

eron.sudhausen 5/17/2012 8:22:59 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2132-H.dgn

- NOTES:
1. VERTICAL DESIGN SPEED = 35 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM.



STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	TOTAL
Exc																										
Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BMM
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

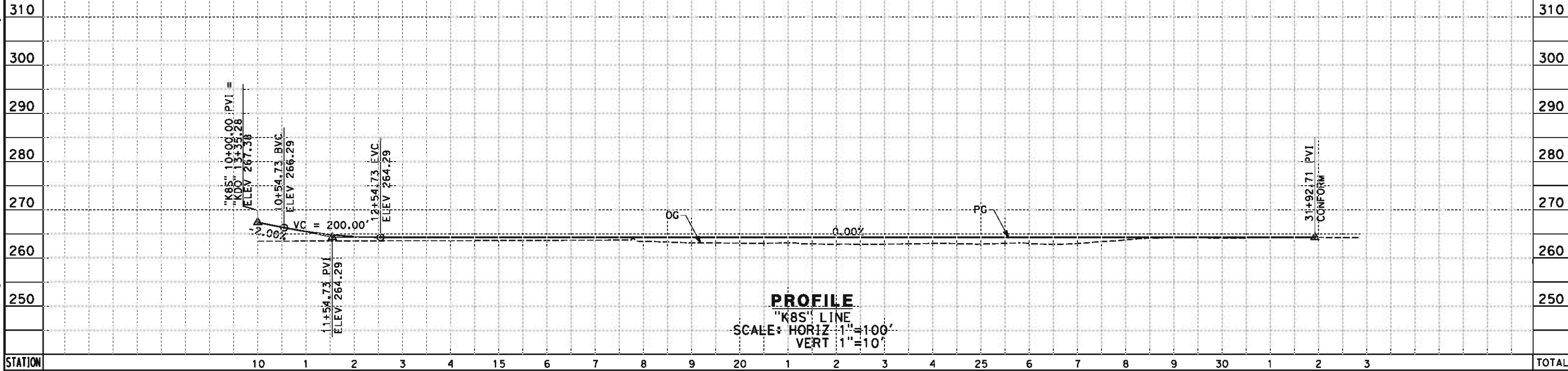


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
8TH AVE (NORTH)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2132
SCALE
AS SHOWN
SHEET NO.
47 OF 69

eron.sudhausen 5/17/2012 8:23:00 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\HV-B-CT-2133-H.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 35 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



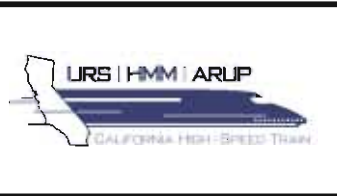
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CY	Exc																									
	Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



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

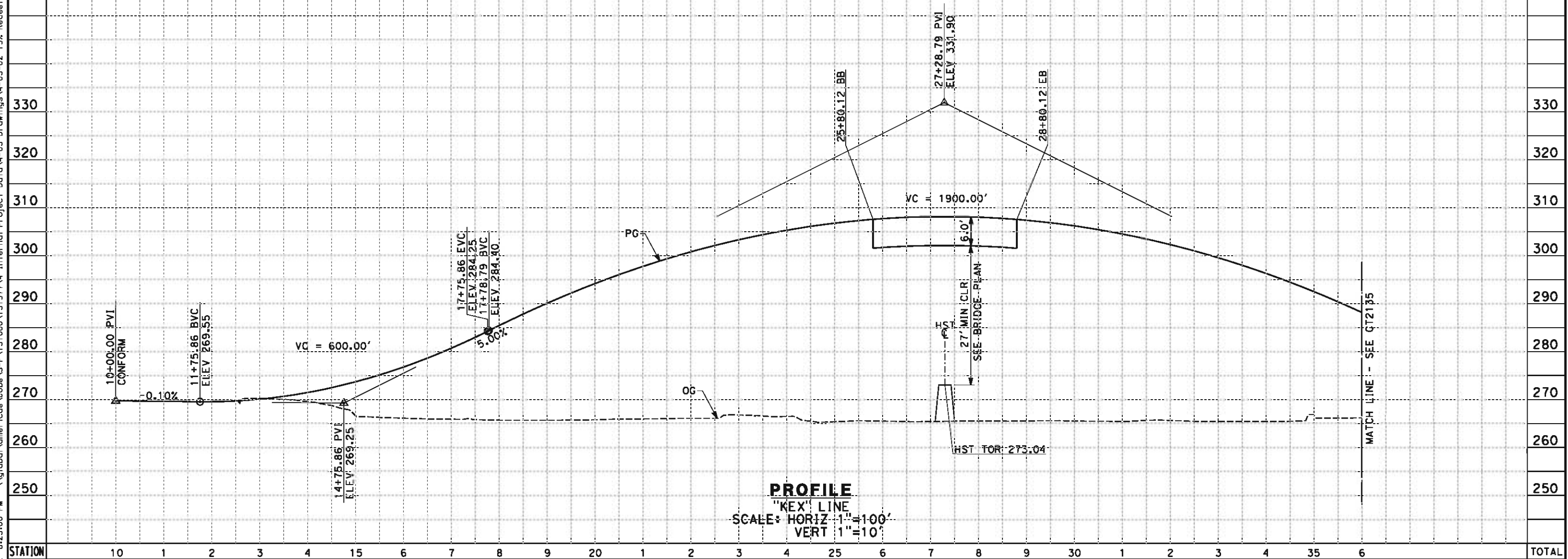
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
8TH AVE (SOUTH)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2133
SCALE AS SHOWN
SHEET NO. 48 OF 69

eron.sudhausen 5/17/2012 8:23:00 PM \\global\america\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2134-H.dgn

NOTES:

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	TOTAL
CY	Exc																												
	Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

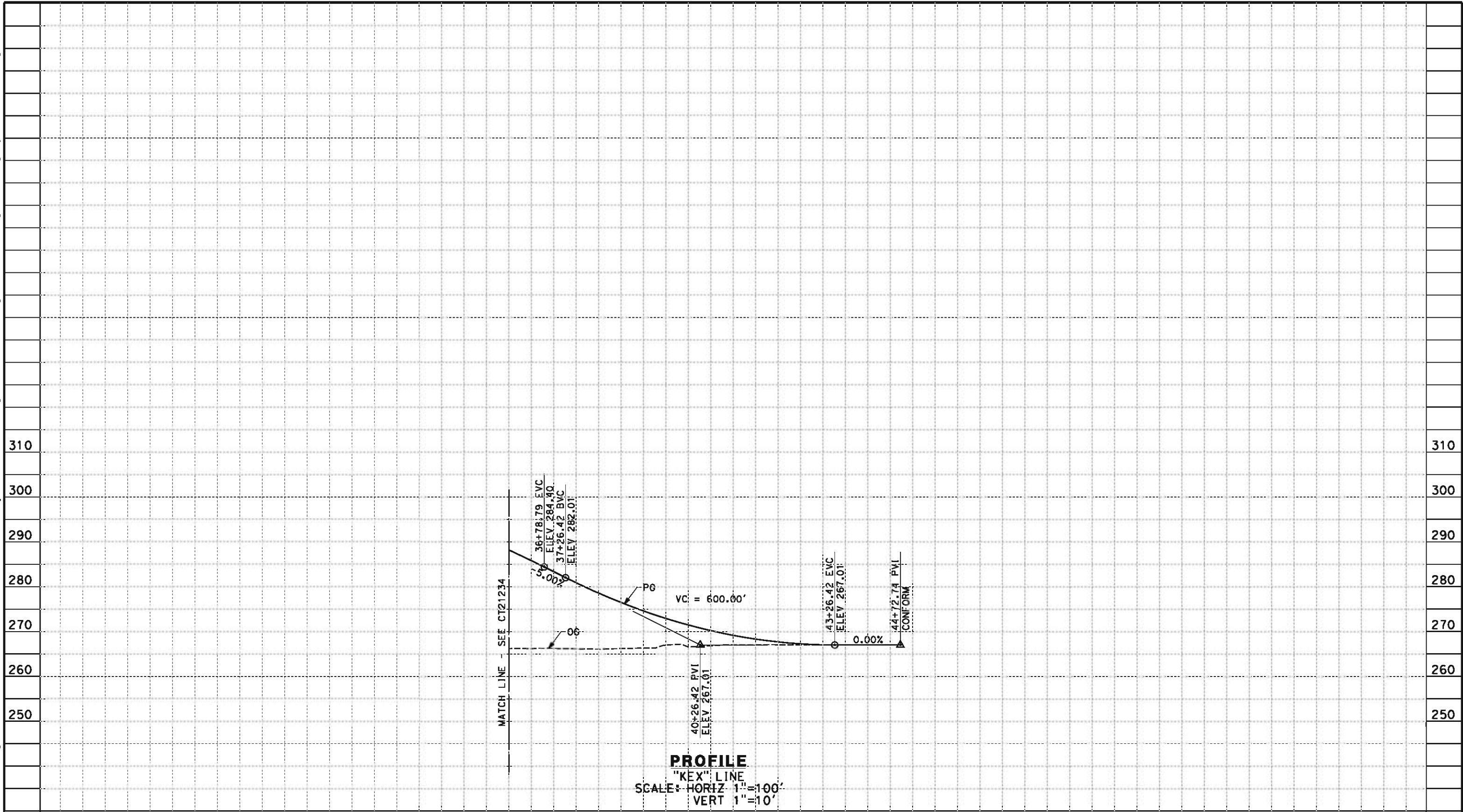
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
EXCELSIOR AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2134
SCALE
AS SHOWN
SHEET NO.
49 OF 69

eron.sudhausen 5/17/2012 8:23:01 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2135-H.dgn



STATION		6	7	8	9	40	1	2	3	4	45	6	TOTAL
CY	Exc												
	Emb												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BMM
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

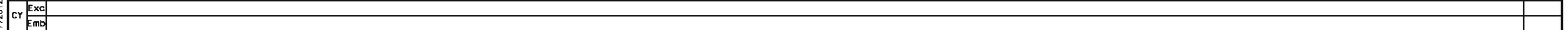
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
EXCELSIOR AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2135
SCALE
AS SHOWN
SHEET NO.
50 OF 69

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



DESIGNED BY M. BAMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12



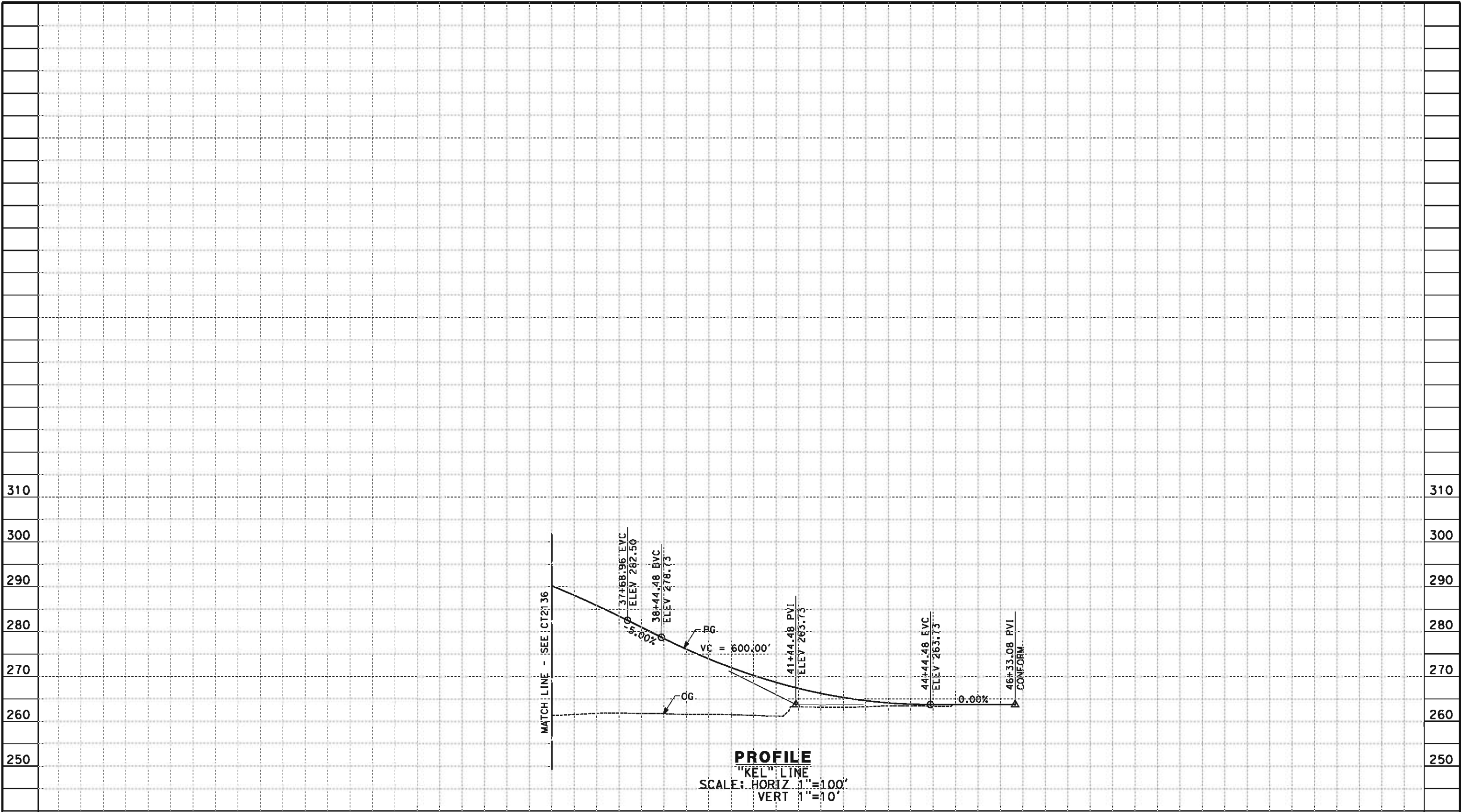
URS | HMM | ARUP



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
ELDER AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2136
SCALE	AS SHOWN
SHEET NO.	51 OF 69

eron.sudhausen 5/17/2012 8:23:03 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\HV-B-CT-2137-H.dgn



STATION		6	7	8	9	40	1	2	3	4	45	6	7	TOTAL
CY	Exc													
	Emb													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB

DRAWN BY
E. SUDHAUSEN

CHECKED BY
J. MONG

IN CHARGE
R. COFFIN

DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
ELDER AVE

CONTRACT NO.
HSR 06-0003

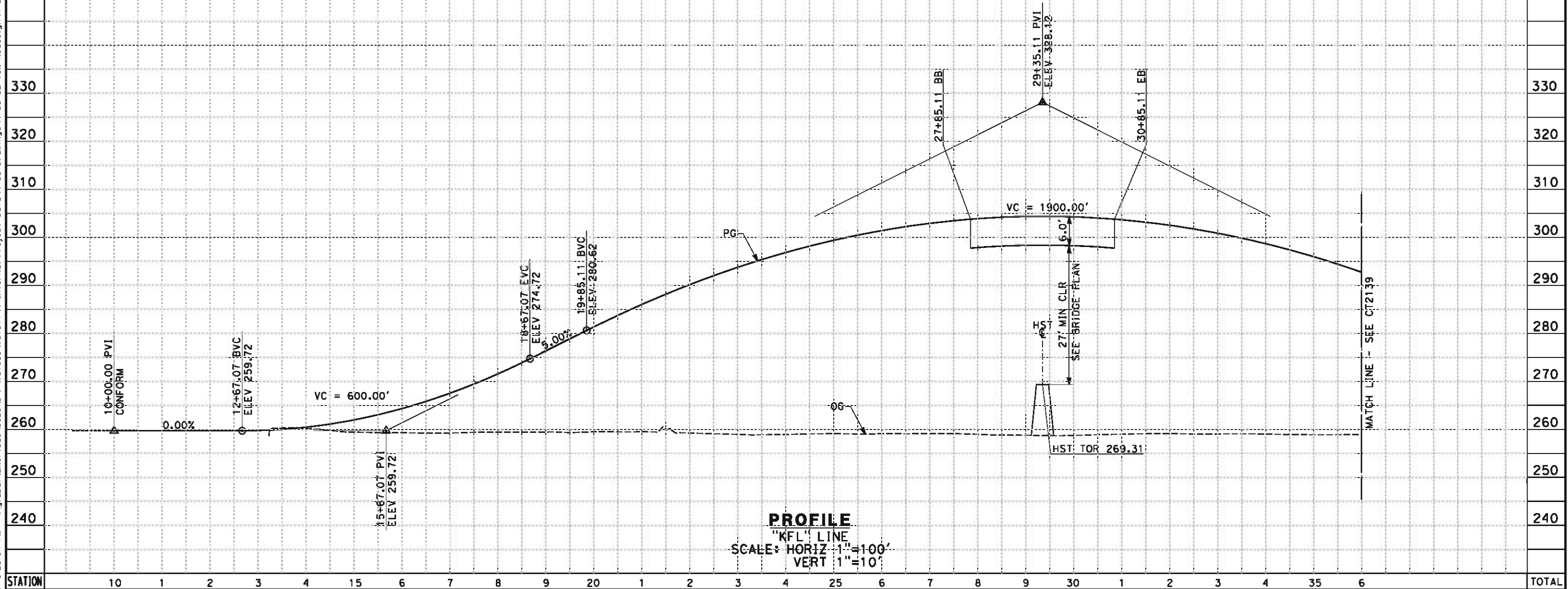
DRAWING NO.
CT2137

SCALE
AS SHOWN

SHEET NO.
52 OF 69

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- NOTES:
1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 2. VERTICAL DESIGN SPEED = 55 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	TOTAL
CY	Exc																												
	Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

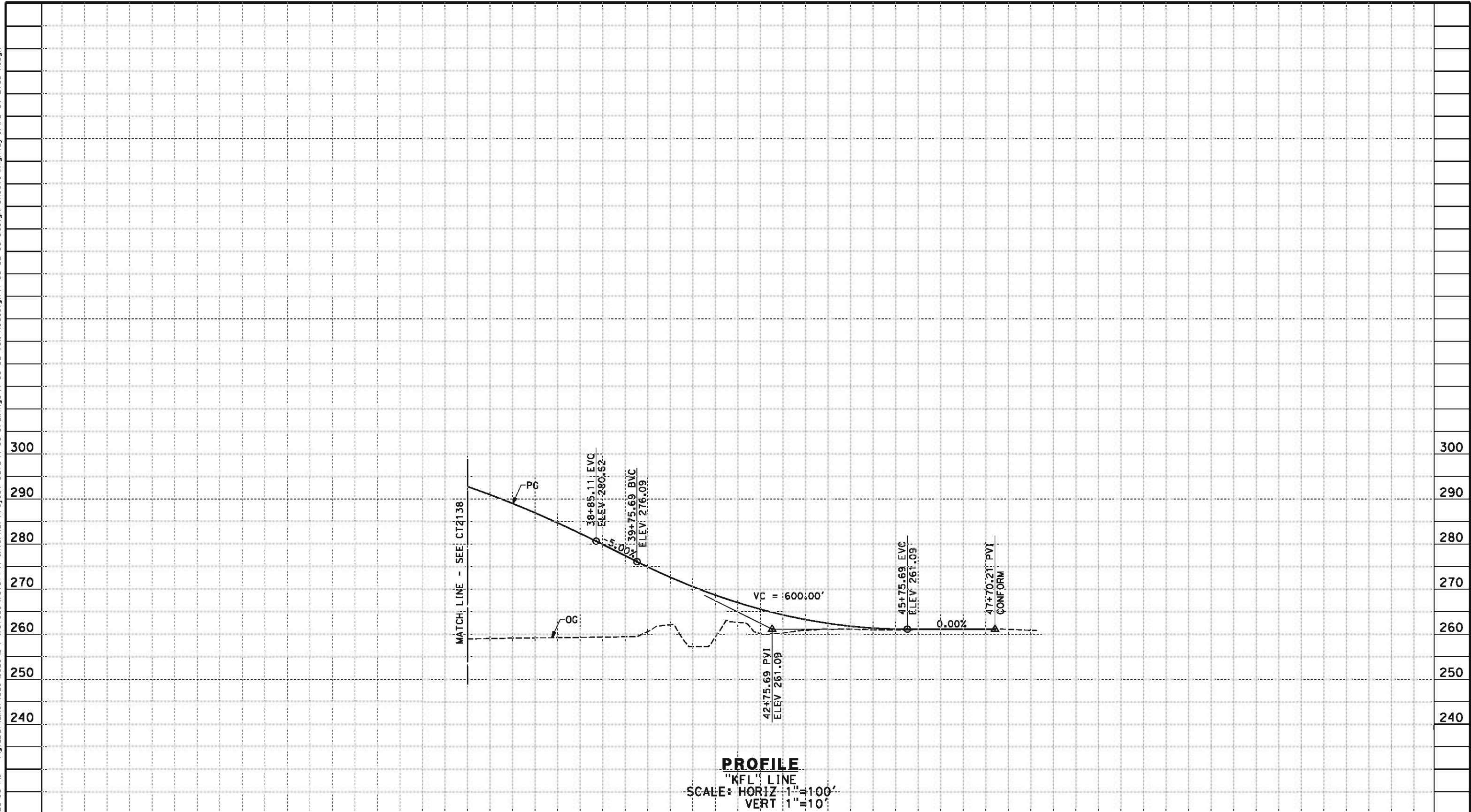
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
FLINT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2138
SCALE
AS SHOWN
SHEET NO.
53 OF 69

eron.sudhausen 5/17/2012 8:23:05 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2139-H.dgn



STATION		6	7	8	9	40	1	2	3	4	45	6	7	8	TOTAL
CY	Exc														
	Emb														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BMM
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

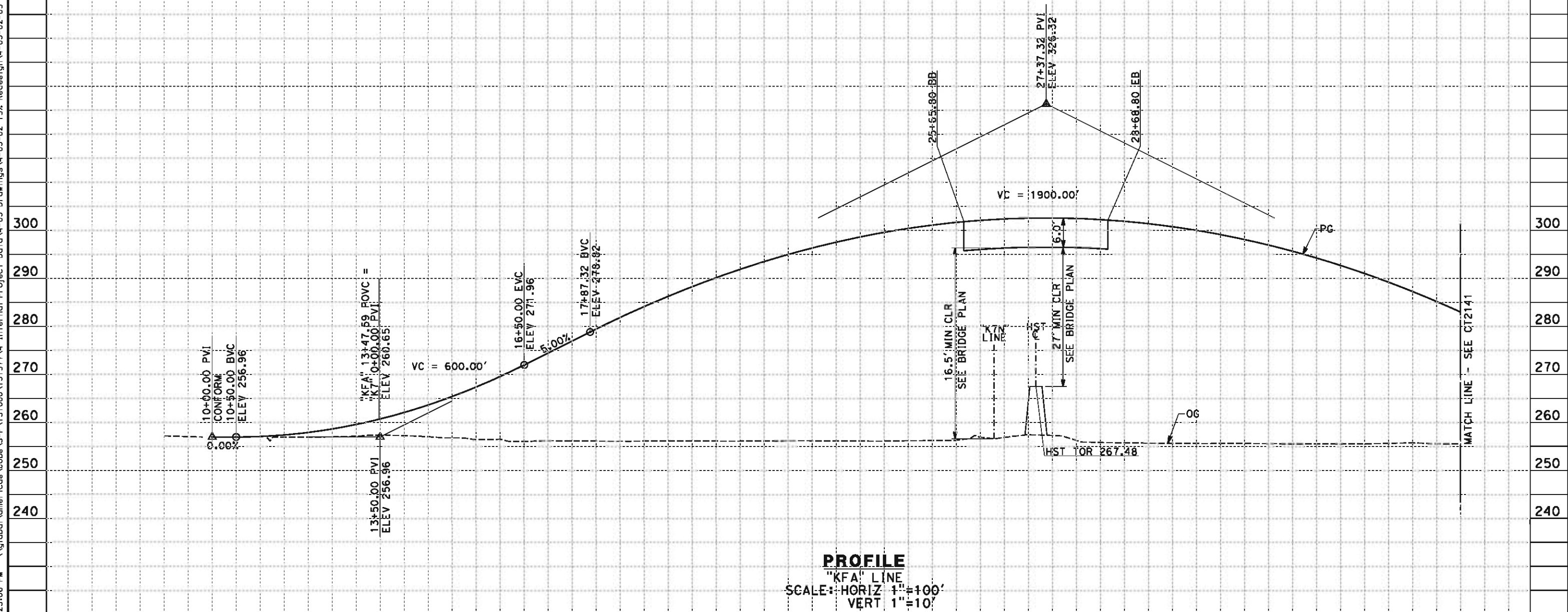


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
FLINT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2139
SCALE
AS SHOWN
SHEET NO.
54 OF 69

eron.sudhausen 5/17/2012 8:23:06 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2140-H.dgn

- NOTES:
1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 2. VERTICAL DESIGN SPEED = 55 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	TOTAL
Exc																													
Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

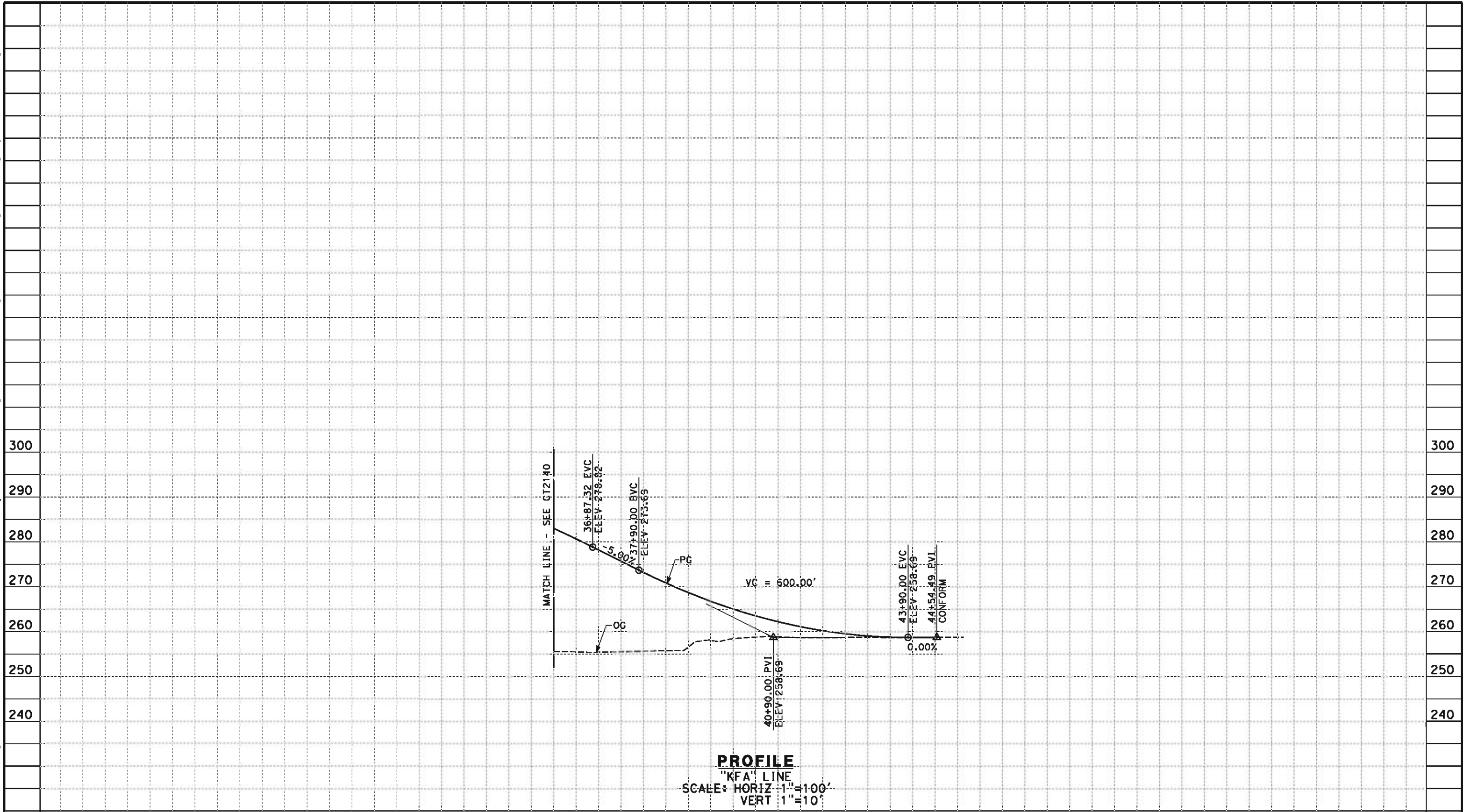
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
FARGO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2140
SCALE
AS SHOWN
SHEET NO.
55 OF 69

eron.sudhausen 5/17/2012 8:23:07 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2141-H.dgn



STATION		6	7	8	9	40	1	2	3	4	5	TOTAL
CY	Exc											
	Emb											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BMM
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

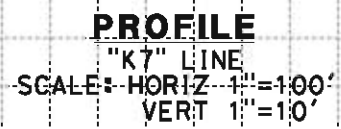
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
FARGO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2141
SCALE
AS SHOWN
SHEET NO.
56 OF 69

1. VERTICAL DESIGN SPEED = 25 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
3. REFER TO DRAWING CT1140 FOR LAYOUT



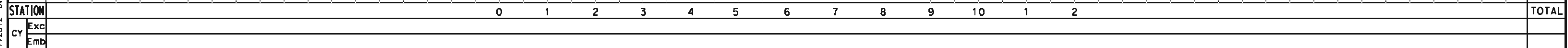
STATION		0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	TOTAL
CY	Exc																
	Emb																

						DESIGNED BY M. BAMB	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H GRADE SEPARATION PROFILE 7 1/2 AVE CONNECTOR	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN				DRAWING NO. CT2142
						CHECKED BY J. MONG				SCALE AS SHOWN
						IN CHARGE R. COFFIN				SHEET NO. 57 OF 69
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12				

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
7 1/2 AVE CONNECTOR

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2142
SCALE	AS SHOWN
SHEET NO.	57 OF 69

1. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE.
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
4. REFER TO DRAWINGS CT-139 FOR LAYOUT



DESIGNED BY M. BAMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12



URS | HMM | ARUP

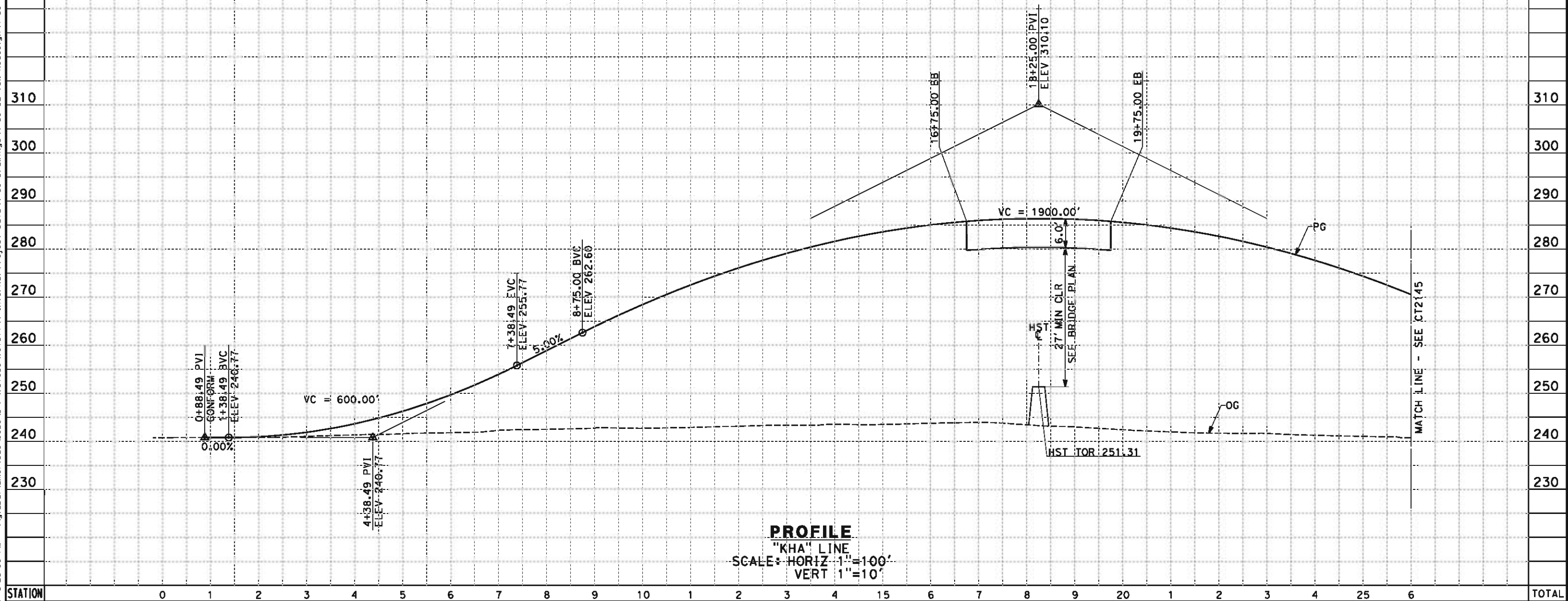


CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2143
SCALE	AS SHOWN
SHEET NO.	58 OF 69

eron.sudhausen 5/17/2012 8:23:09 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2144-H.dgn

NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	TOTAL
CY	Exc																												
	Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

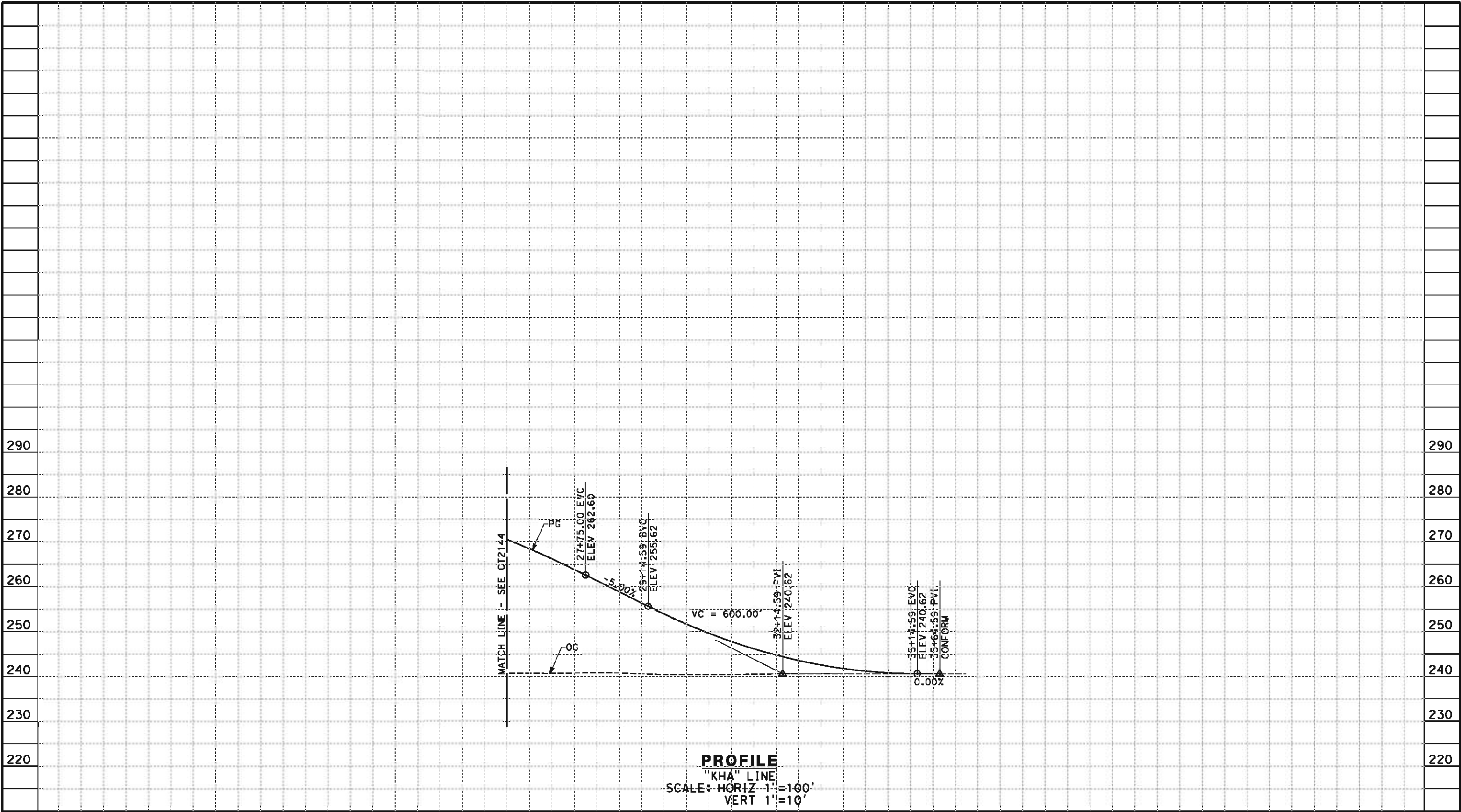
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
HANFORD ARMONA RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2144
SCALE
AS SHOWN
SHEET NO.
59 OF 69

eron.sudhausen 5/17/2012 8:23:10 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2145-H.dgn



STATION		6	7	8	9	30	1	2	3	4	35	6	TOTAL
CY	Exc												
	Emb												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB

DRAWN BY
E. SUDHAUSEN

CHECKED BY
J. MONG

IN CHARGE
R. COFFIN

DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
HANFORD ARMONA RD

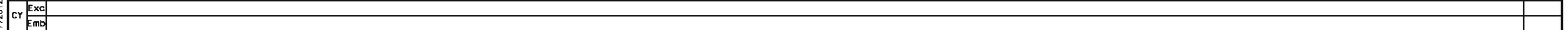
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2145

SCALE
AS SHOWN

SHEET NO.
60 OF 69

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



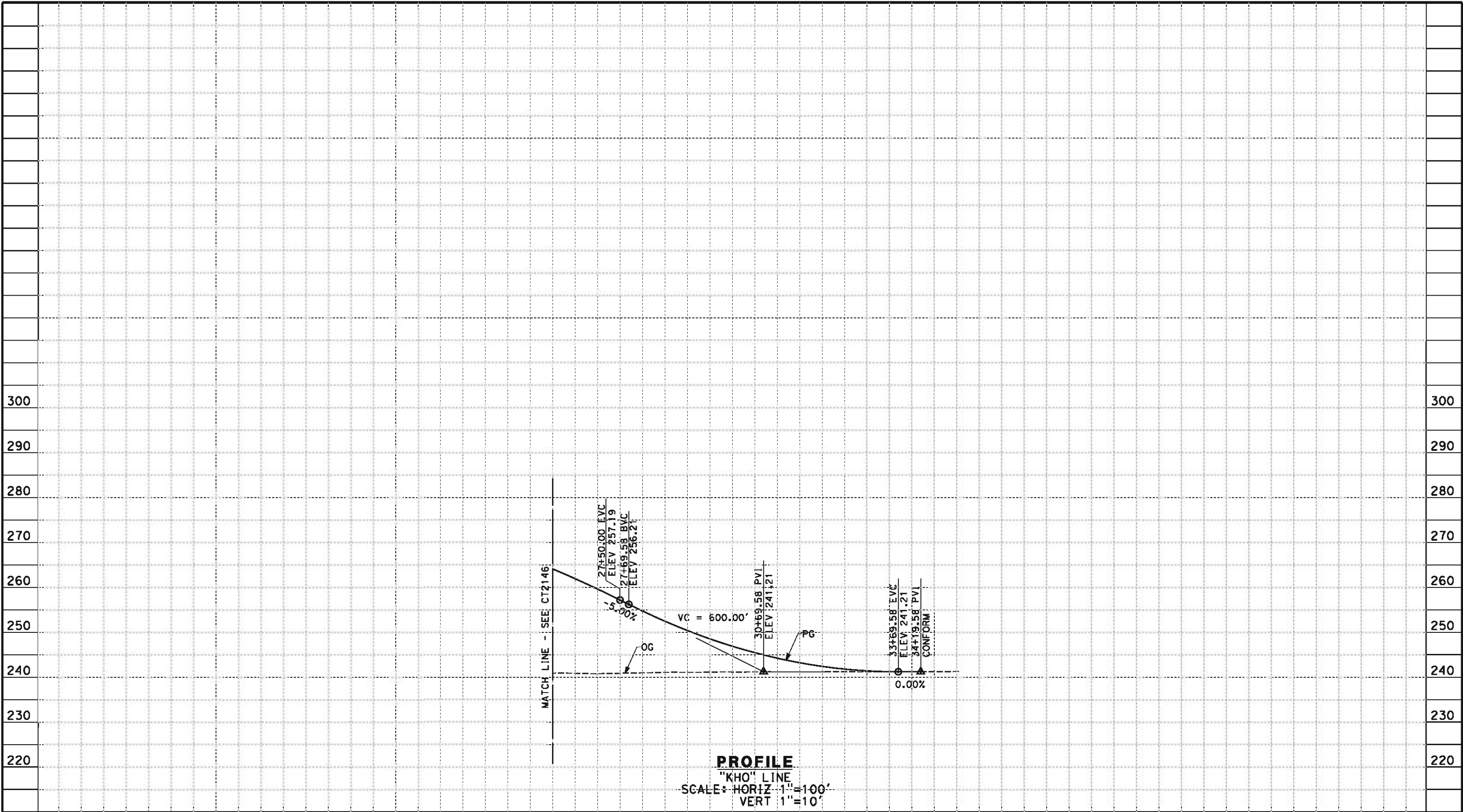
DESIGNED BY M. BAMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
HOUSTON AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2146
SCALE	AS SHOWN
SHEET NO.	61 OF 69

eron.sudhausen 5/17/2012 8:23:12 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2147-H.dgn



STATION		6	7	8	9	30	1	2	3	4	35	TOTAL
CY	Exc											
	Emb											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BMM
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

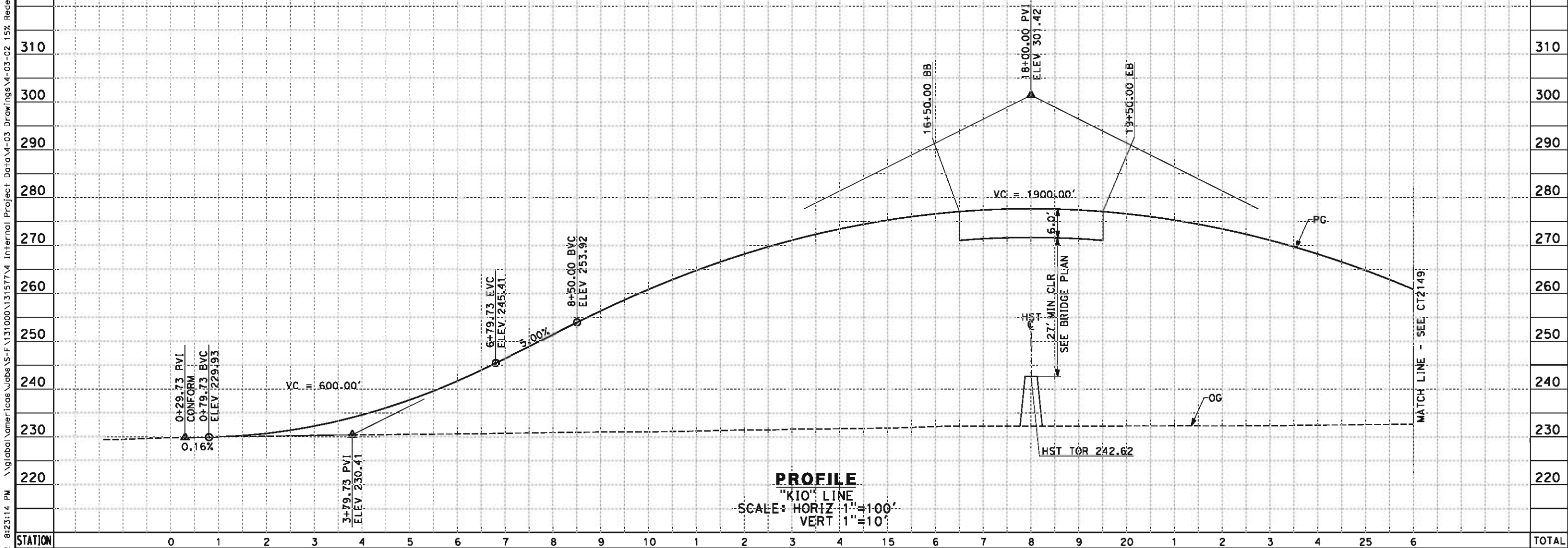


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
HOUSTON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2147
SCALE
AS SHOWN
SHEET NO.
62 OF 69

eron.sudhausen 5/17/2012 8:23:14 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\HV-B-CT-2148-H.dgn

- NOTES:
- 1. MIN. VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	TOTAL
Exc																												
Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

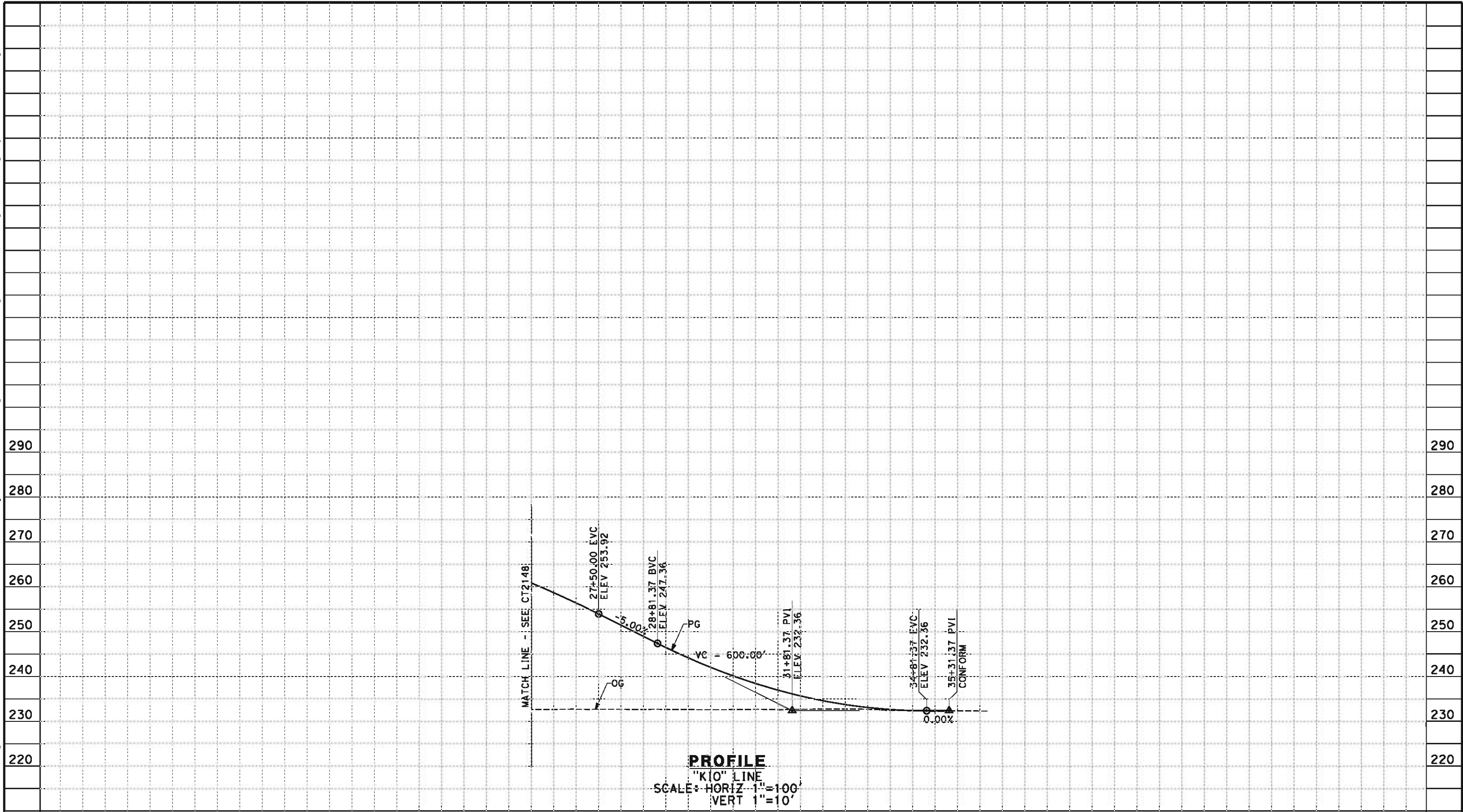
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
IONA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2148
SCALE
AS SHOWN
SHEET NO.
63 OF 69

eron.sudhausen 5/17/2012 8:23:14 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CT-2149-H.dgn



STATION		6	7	8	9	30	1	2	3	4	35	6	TOTAL
CY	Exc												
	Emb												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB

DRAWN BY
E. SUDHAUSEN

CHECKED BY
J. MONG

IN CHARGE
R. COFFIN

DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
IONA AVE

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2149

SCALE
AS SHOWN

SHEET NO.
64 OF 69

NO.	R	Δ	T	L	V
(1)	1100.00'	53°14'50"	551.41'	1022.27'	55 MPH
(2)	1100.00'	36°32'04"	363.09'	701.41'	55 MPH

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CR1251
SCALE	AS SHOWN
SHEET NO.	65 OF 69

1. VERTICAL DESIGN SPEED = 55 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



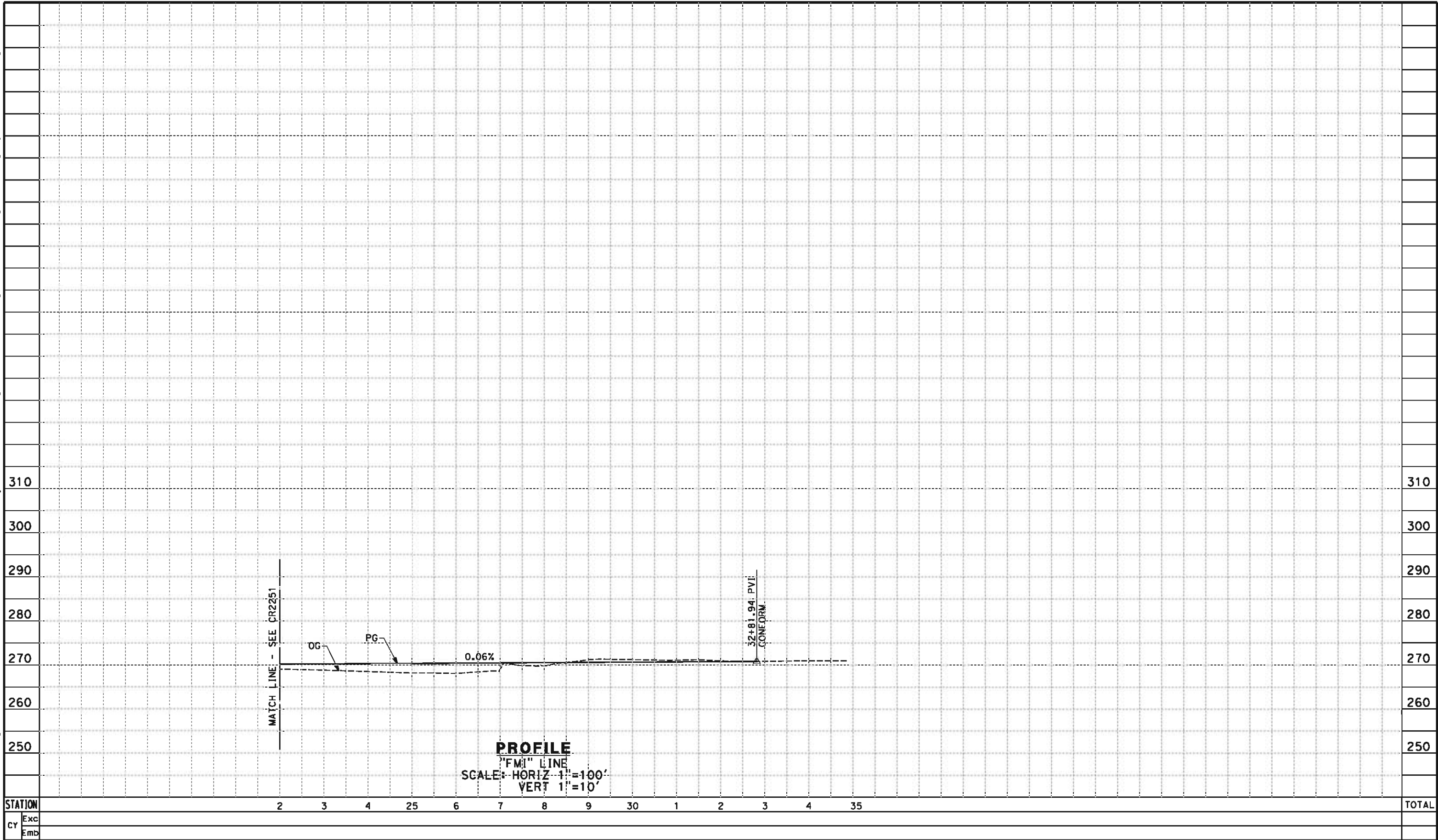
REV	DATE	BY	CHK	APP	DESCRIPTION

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



CONTRACT NO.	HSR 06-0003
DRAWING NO.	CR2251
SCALE	AS SHOWN
SHEET NO.	66 OF 69

eron.sudhausen 5/17/2012 8:23:28 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\HV-B-CR-2252-H.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
ROADWAY PROFILE
E CLARKSON AVE & S MINNEWAWA AVE

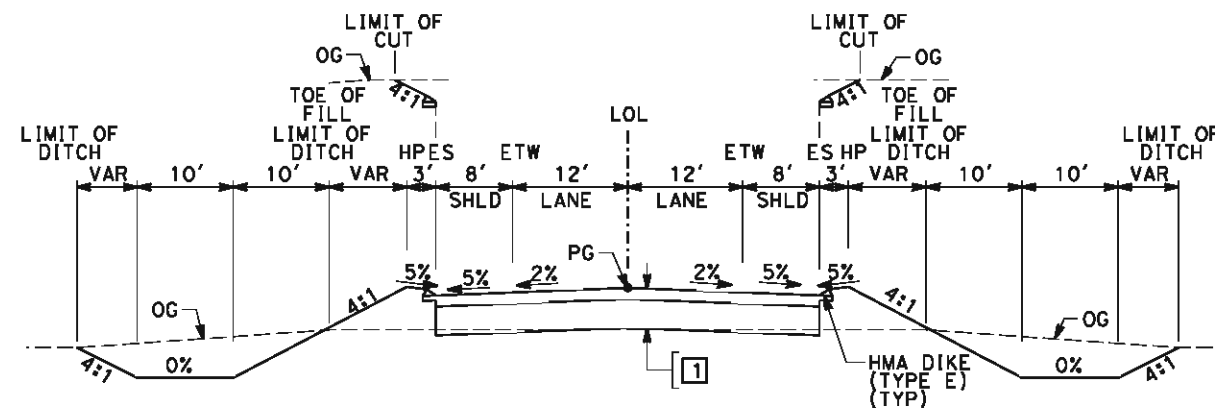
CONTRACT NO. HSR 06-0003
DRAWING NO. CR2252
SCALE AS SHOWN
SHEET NO. 67 OF 69

2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

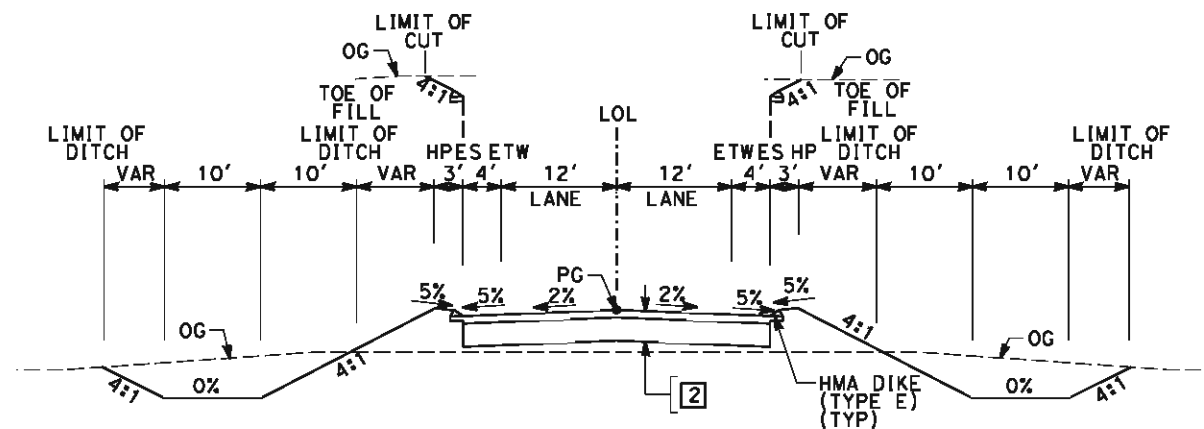
1-0.60' HMA (TYPE A)
1.50' CL2 AB

2-0.40' HMA (TYPE A)
1.20' CL2 AB

3-1.00' CL2 AB



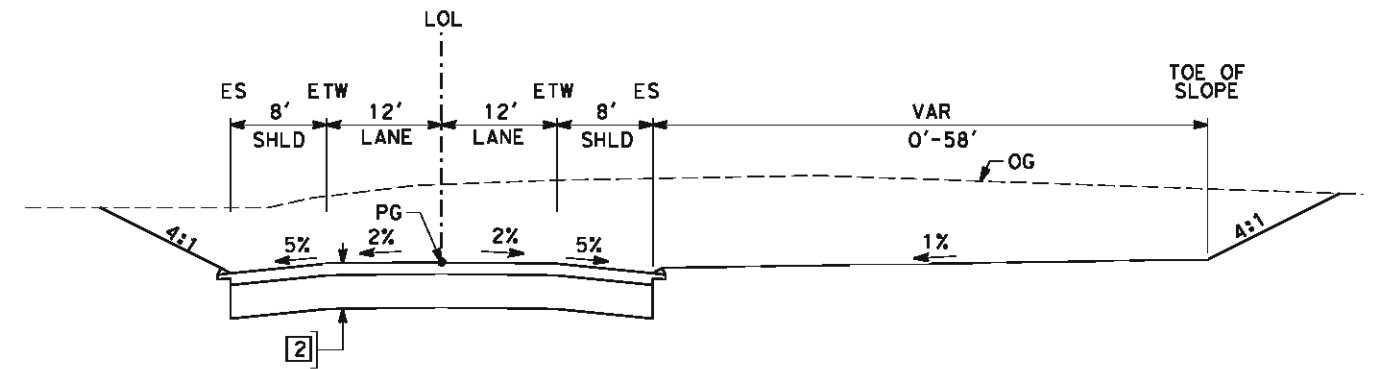
"FEL"	03+35.97	TO	18+56.94	"KEL"	29+68.84	TO	46+33.08
"FEL"	22+16.94	TO	37+03.26	"KFL"	10+00.00	TO	27+85.11
"FFO"	10+00.00	TO	35+85.91	"KFL"	30+85.11	TO	47+70.21
"FFO"	38+85.91	TO	57+16.10	"KHA"	00+88.49	TO	16+75.00
"KEX"	10+00.00	TO	25+80.12	"KHA"	19+75.00	TO	35+64.59
"KEX"	28+80.12	TO	44+72.74	"KHO"	01+16.25	TO	16+50.00
"KEL"	10+00.00	TO	26+68.84	"KHO"	19+50.00	TO	34+19.58



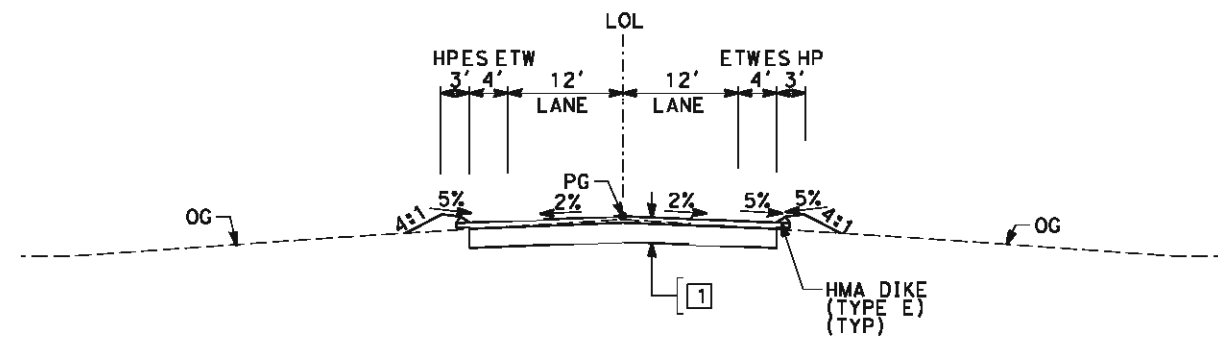
"FCL"	10+00.00	TO	27+25.57	"KDO"	29+51.73	TO	45+04.83
"FCL"	30+25.57	TO	50+46.79	"K8N"	10+00.00	TO	33+19.67
"FDA"	08+43.67	TO	23+86.67	"K8S"	10+00.00	TO	31+92.71
"FDA"	27+46.67	TO	42+84.42	"KFA"	10+00.00	TO	25+65.80
"KCA"	11+89.66	TO	28+52.01	"KFA"	28+68.80	TO	44+54.49
"KCA"	31+52.01	TO	47+46.66	"KIO"	00+29.73	TO	16+50.00
"KDO"	10+65.97	TO	26+51.73	"KIO"	19+50.00	TO	35+31.37

[illegible]

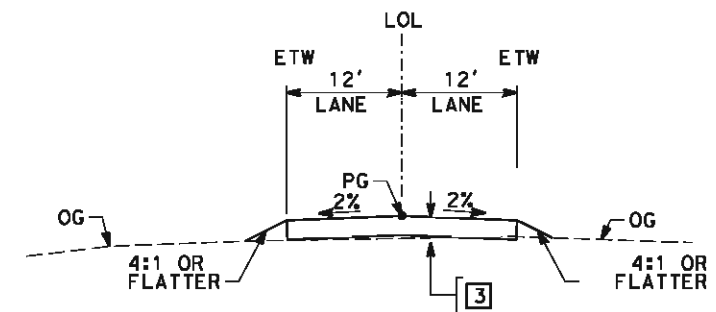
\\global\\americas\\Jobs\\S-F\\131000\\131577\\4 Internal Project Data\\4-03 Drawings\\4-03-02 15% Redesign\\4-03-02 15% Redesign\\Highway\\HV\\B-CT-3031-H.dgn 5/17/2012 8:23:30 PM



SECTION E
"F43" 09+00.00 TO 36+00.00



SECTION D
"K7" 00+00.00 TO 13+36.84
"K7N" 00+00.00 TO 12+05.95
"FM1" 00+00.00 TO 32+81.94



SECTION F
"FKRA" 10+18.56 TO 42+90.00
"FKRA" 46+37.97 TO 51+12.03

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H ROADWAY / GRADE SEPARATION TYPICAL CROSS SECTIONS

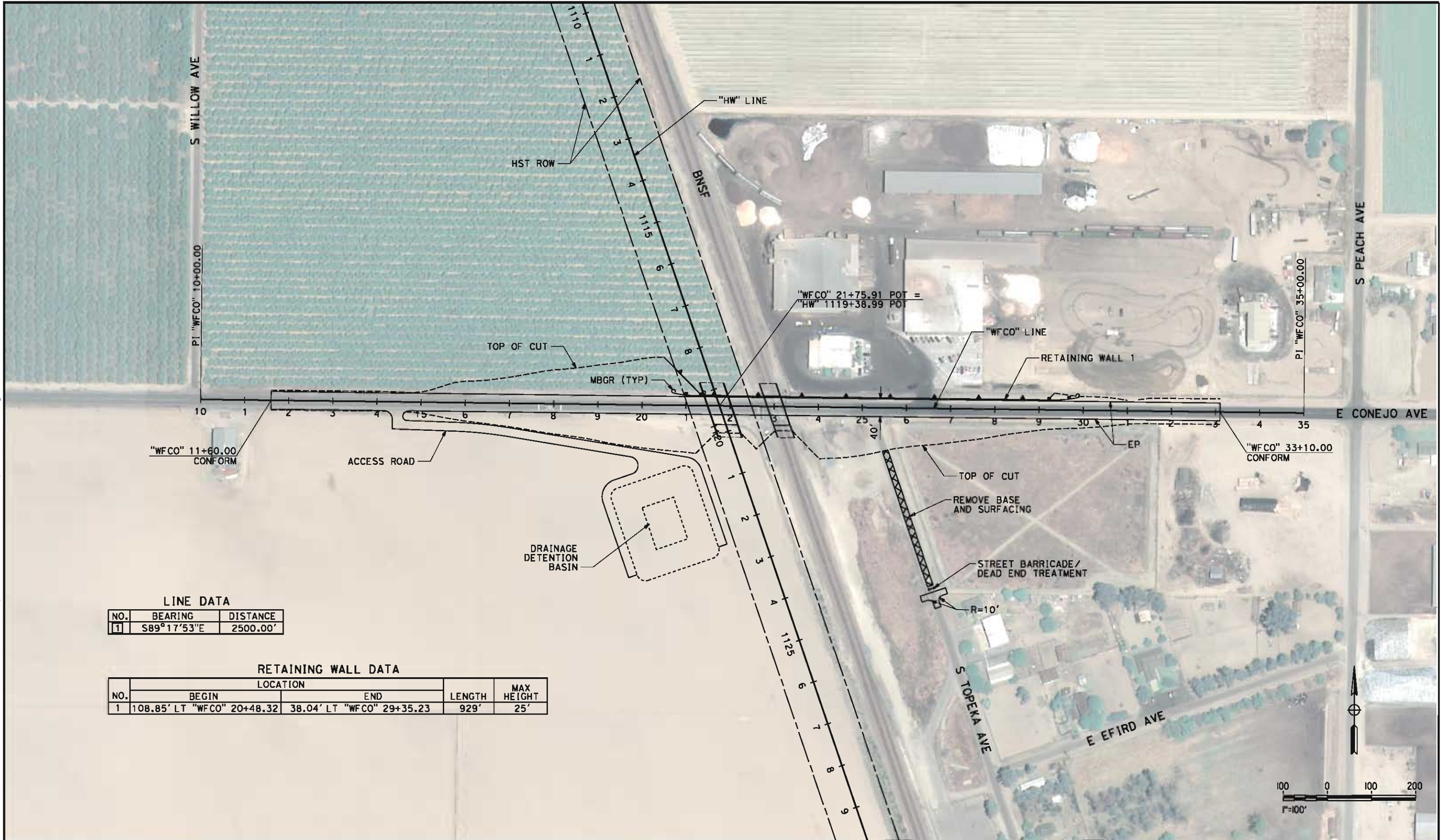
CONTRACT NO. HSR 06-0003
DRAWING NO. CT3031
SCALE NO SCALE
SHEET NO. 69 OF 69

STREET NAME	HST ALIGNMENT STA.
S TOPEKA AVE	1124+00.00
S PEACH AVE	1162+00.00
E CLARKSON AVE	1175+00.00
S MINNEWAWA AVE	1230+00.00
E DAVIS ST	1288+00.00
E BARRETT AVE	1368+00.00
ELDER AVE	1610+00.00

[illegible]

5/11/2012 8:13:19 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWN\FB-CT1310.dgn

NET53329



LINE DATA

NO.	BEARING	DISTANCE
1	S89°17'53"E	2500.00'

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	108.85' LT "WFCO" 20+48.32	38.04' LT "WFCO" 29+35.23	929'	25'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

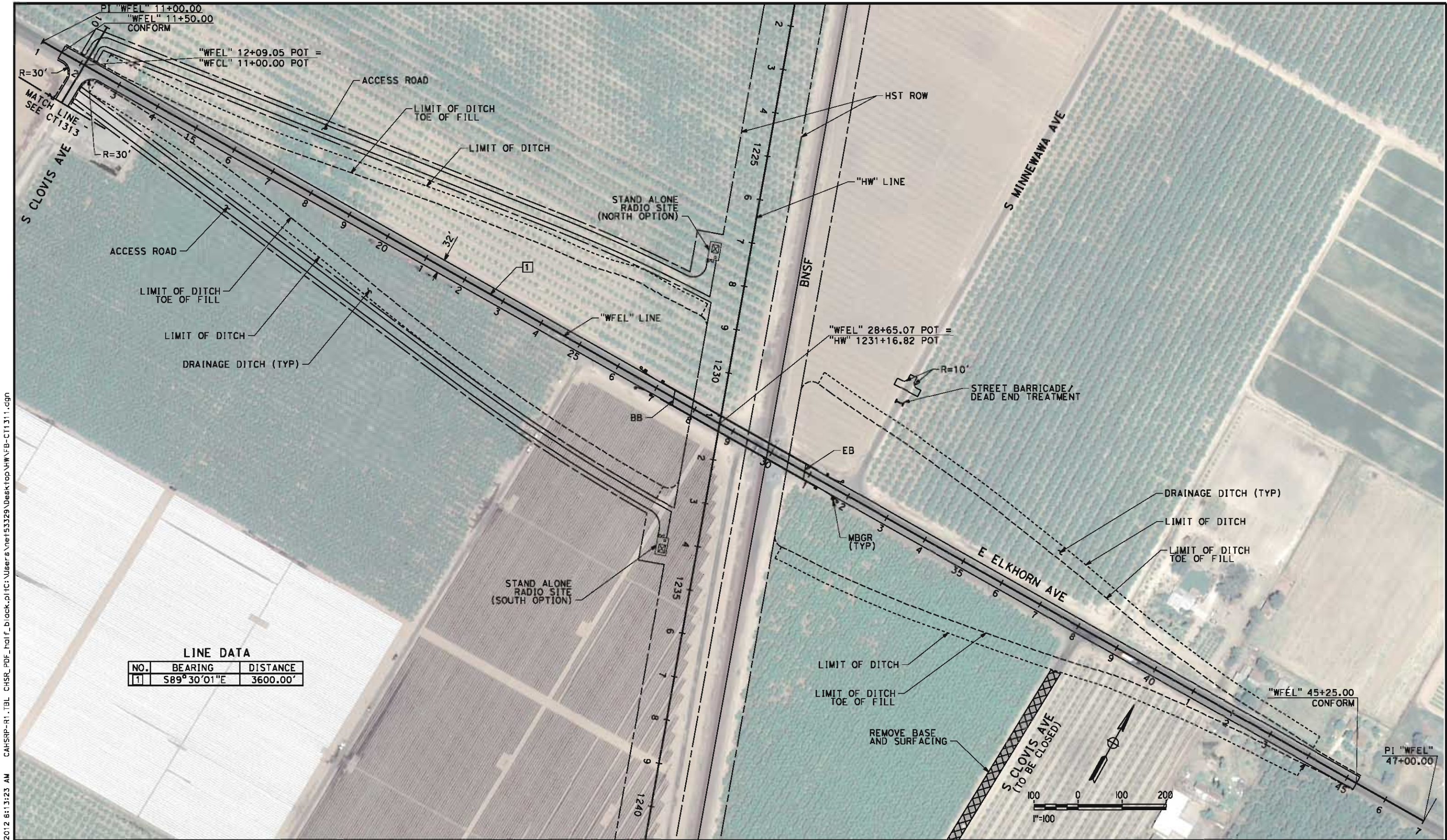
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
E CONEJO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1310
SCALE
AS SHOWN
SHEET NO.
2 OF 51

5/11/2012 8:13:23 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWN\FB-CT1311.dgn



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°30'01"E	3600.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
E ELKHORN AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1311
SCALE
AS SHOWN
SHEET NO.
3 OF 51

NET153329 5/11/2012 8:13:25 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net153329\Desktop\HMM\B-CT1313.dgn

E ELKHORN AVE

MATCH LINE - SEE CT1311

MATCH LINE - SEE CT1314

S CLOVIS AVE

1

TOE OF FILL/
TOP OF CUT

EP

"WFCL" LINE

32'

BC "WFCL" 35+68.44

EC "WFCL" 40+48.10

2

LINE DATA

NO.	BEARING	DISTANCE
1	S02°01'02"W	2568.44'
2	S89°35'27"E	1955.68'

CURVE DATA

NO.	R	Δ	T	L	V
①	300.00'	91°36'29"	308.54'	479.66'	30mph



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. NETTLETON
DRAWN BY P. BARBER
CHECKED BY B. RAWSON
IN CHARGE O. EARLE
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

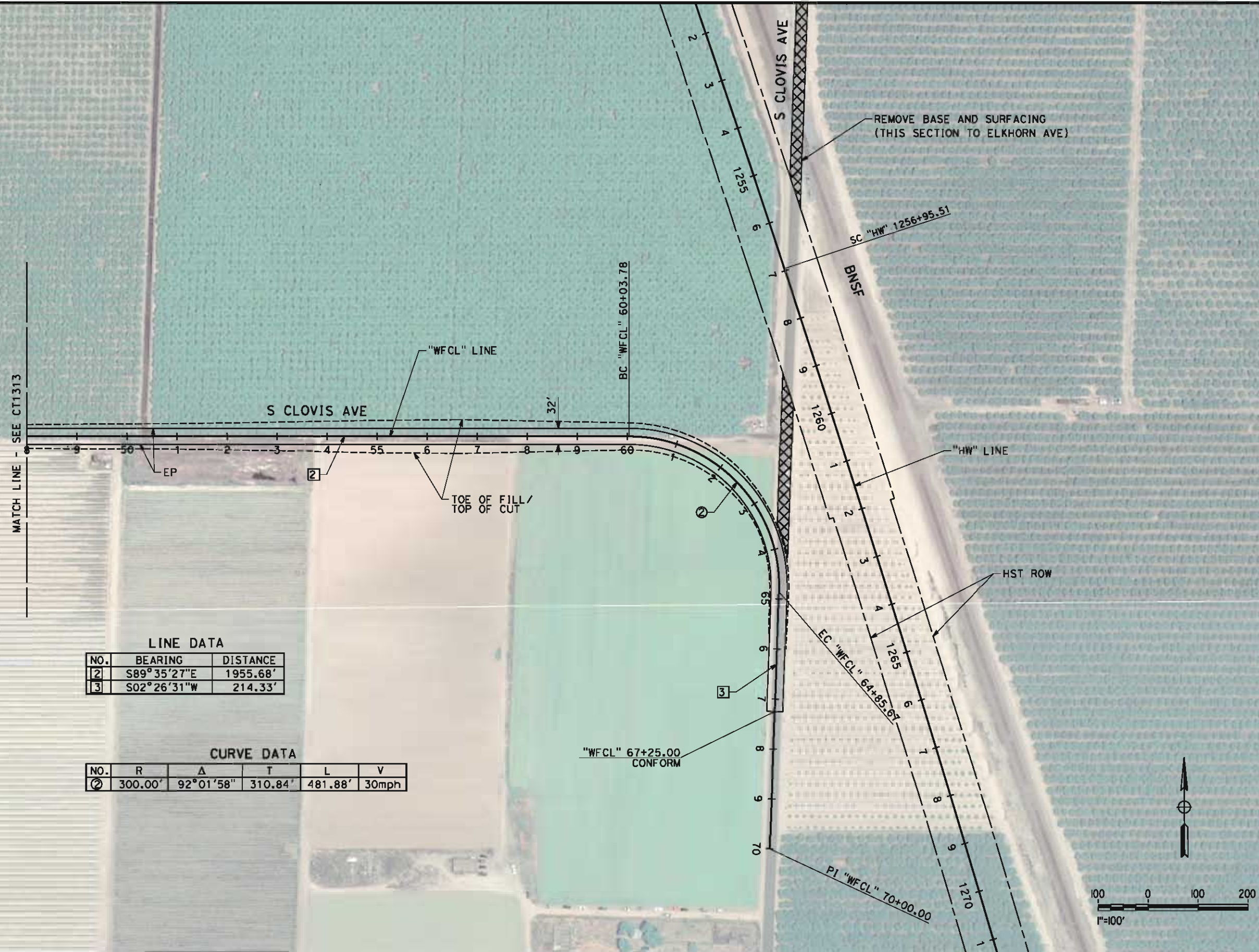


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
S CLOVIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1313
SCALE AS SHOWN
SHEET NO. 4 OF 51

5/11/2012 8:13:28 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWN\FB-CT1314.dgn

NET53329



LINE DATA		
NO.	BEARING	DISTANCE
2	S89°35'27"E	1955.68'
3	S02°26'31"W	214.33'

CURVE DATA					
NO.	R	Δ	T	L	V
2	300.00'	92°01'58"	310.84'	481.88'	30mph

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

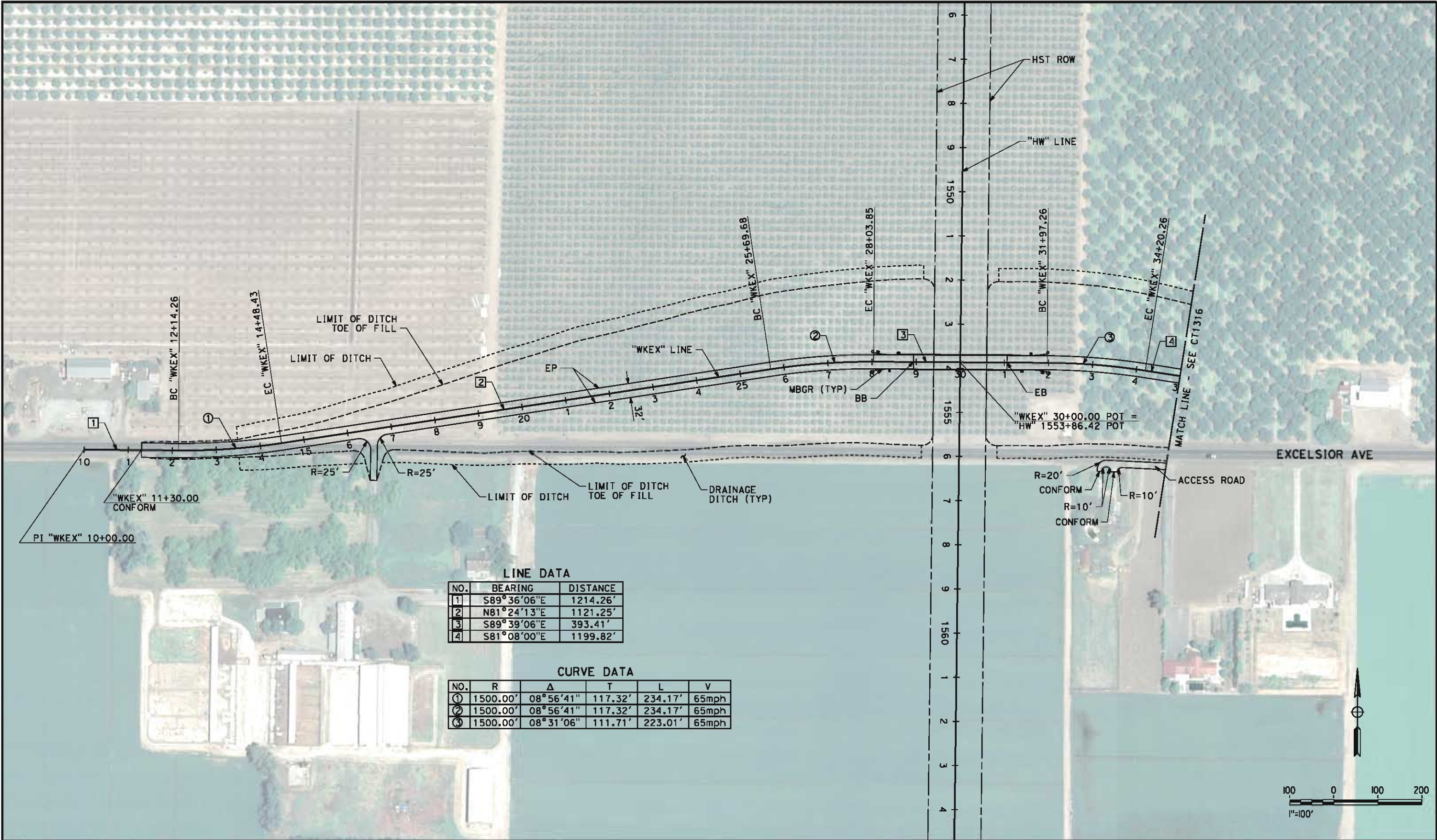


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
S CLOVIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1314
SCALE
AS SHOWN
SHEET NO.
5 OF 51

5/11/2012 8:13:34 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\ne153329\Desktop\HWVB-CT1315.dgn

NET53329



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°36'06"E	1214.26'
2	N81°24'13"E	1121.25'
3	S89°39'06"E	393.41'
4	S81°08'00"E	1199.82'

CURVE DATA					
NO.	R	Δ	T	L	V
①	1500.00'	08°56'41"	117.32'	234.17'	65mph
②	1500.00'	08°56'41"	117.32'	234.17'	65mph
③	1500.00'	08°31'06"	111.71'	223.01'	65mph

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
G. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
EXCELSIOR AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1315
SCALE
AS SHOWN
SHEET NO.
6 OF 51

5/11/2012 8:13:36 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\ne153329\Desktop\HWVB-CT1316.dgn

NET153329

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. NETTLETON
DRAWN BY P. BARBER
CHECKED BY B. RAWSON
IN CHARGE G. EARLE
DATE 05/18/12

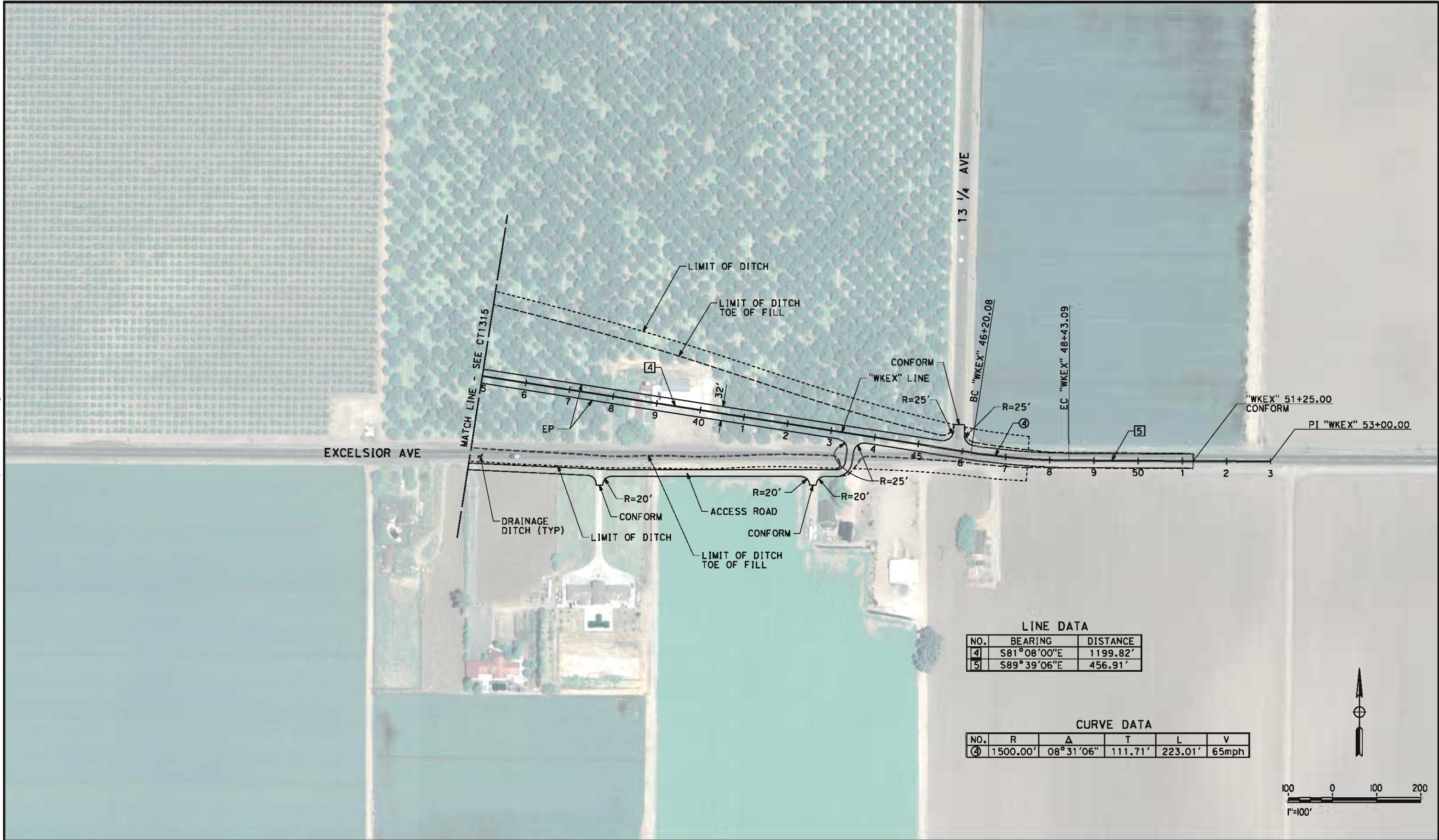
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
EXCELSIOR AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1316
SCALE AS SHOWN
SHEET NO. 7 OF 51

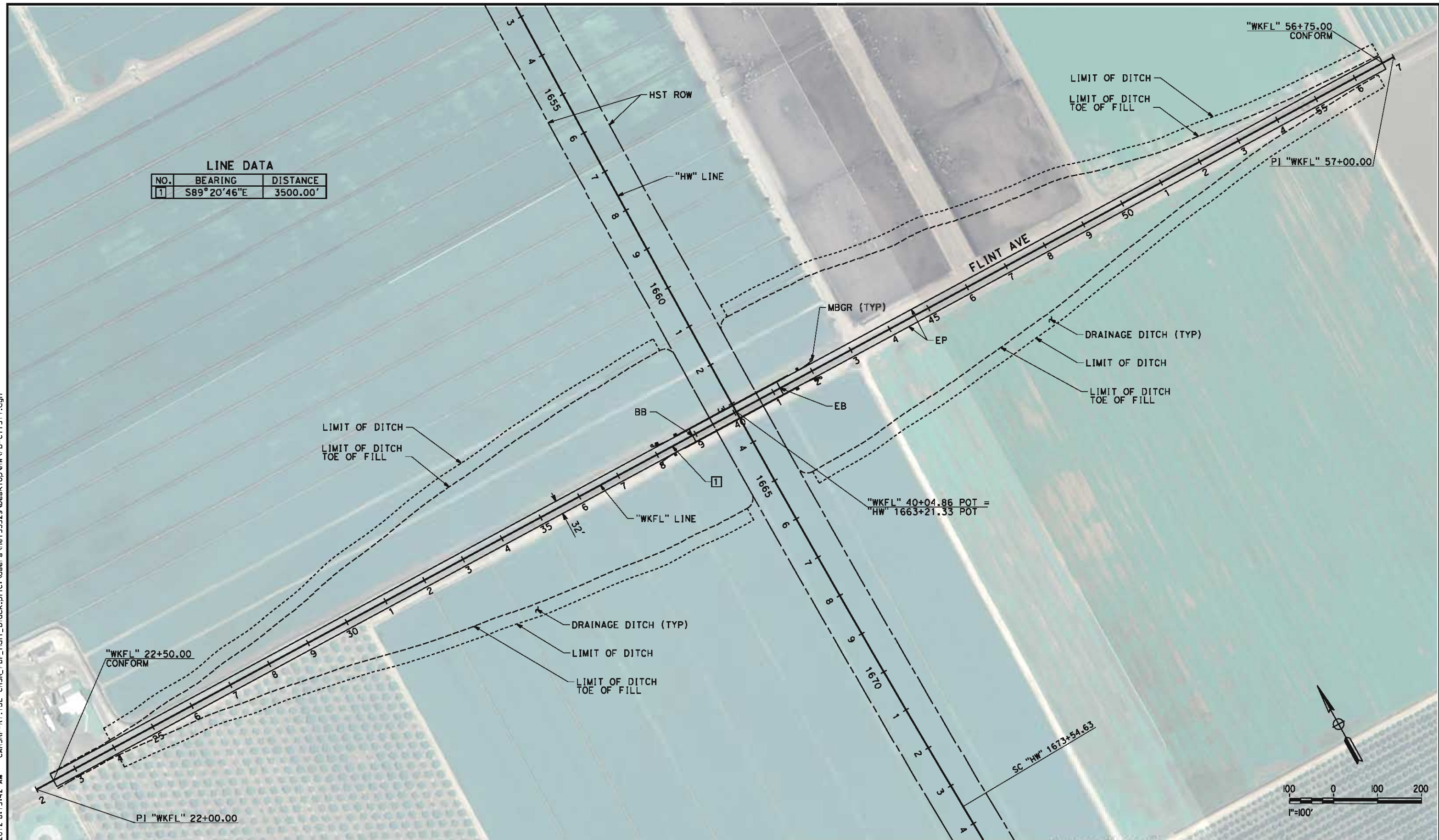


LINE DATA		
NO.	BEARING	DISTANCE
4	S81°08'00"E	1199.82'
5	S89°39'06"E	456.91'

CURVE DATA					
NO.	R	Δ	T	L	V
4	1500.00'	08°31'06"	111.71'	223.01'	65mph

5/11/2012 8:13:42 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HW\FB-CT1317.dgn

NET53329



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°20'46"E	3500.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

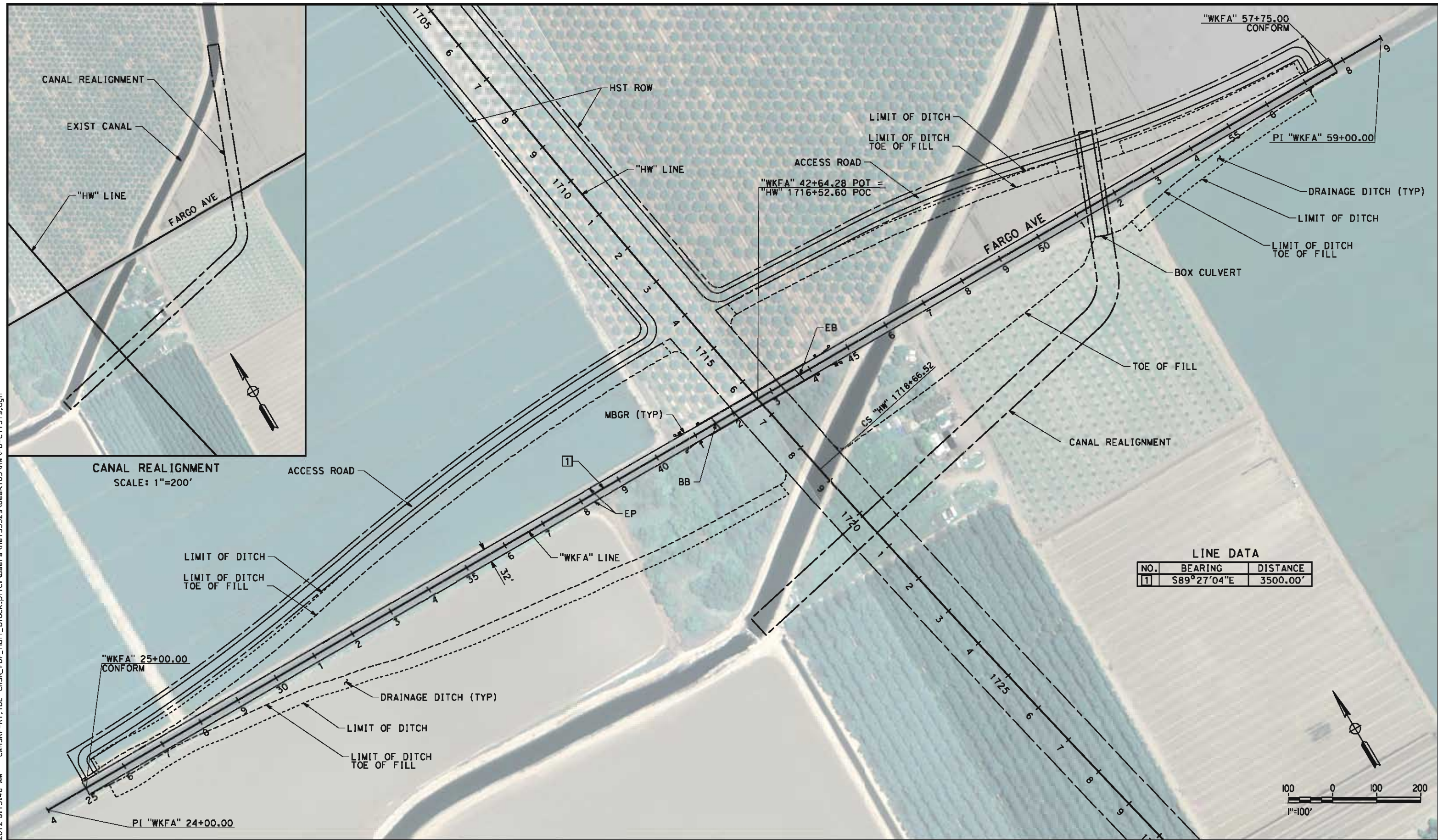
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
FLINT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1317
SCALE
AS SHOWN
SHEET NO.
8 OF 51

5/11/2012 8:13:46 AM CAHSR-R1.TBL CHSR_PDF_hai_r_block.plt C:\Users\ner53329\Desktop\HWVB-CT1319.dgn



CANAL REALIGNMENT
SCALE: 1"=200'

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°27'04"E	3500.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 10%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

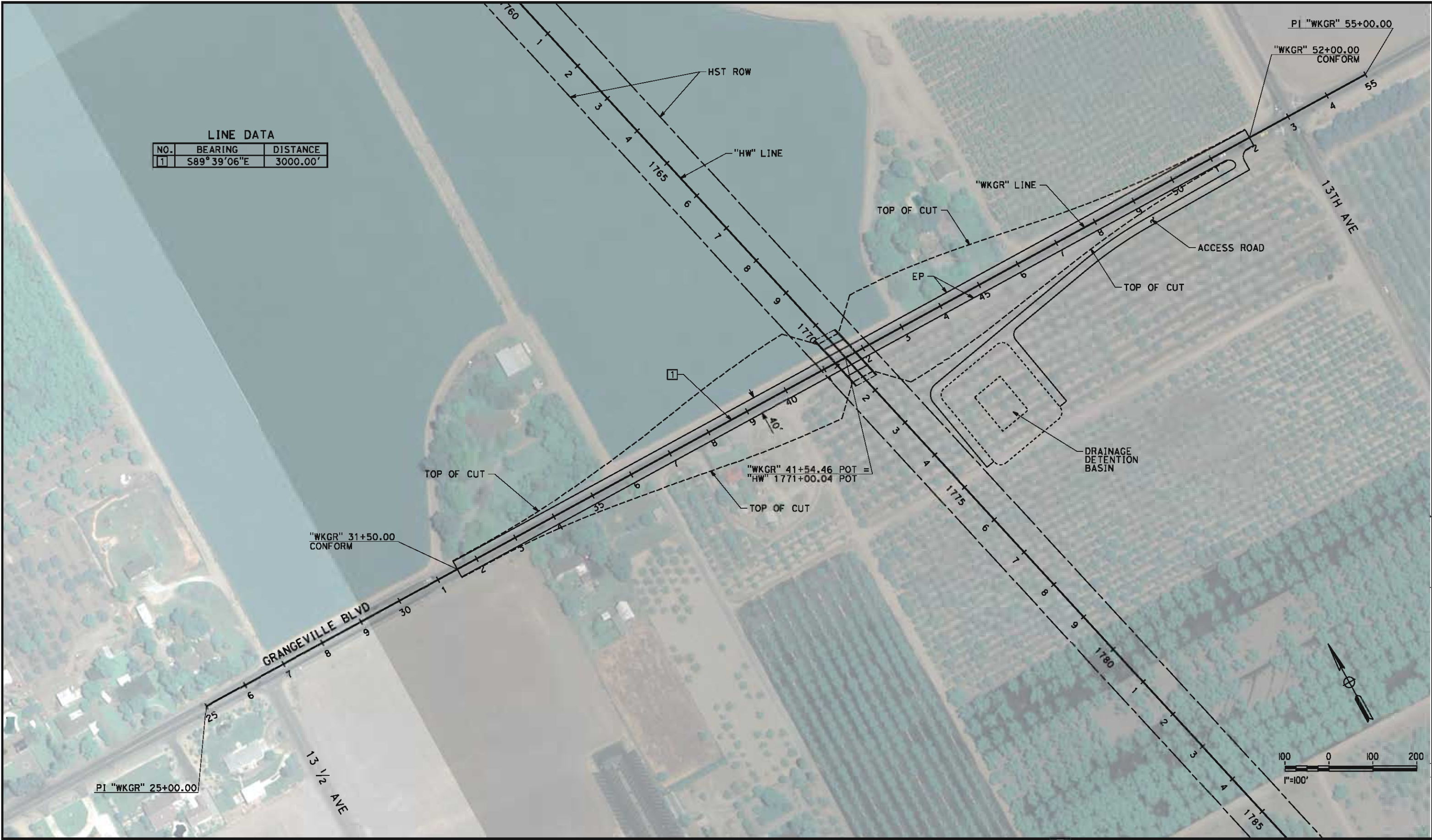


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
FARGO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1319
SCALE
AS SHOWN
SHEET NO.
9 OF 51

5/11/2012 8:13:51 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWNFB-CT1321.dgn

NET53329



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°39'06"E	3000.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
GRANGEVILLE BLVD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1321
SCALE
AS SHOWN
SHEET NO.
10 OF 51

5/17/2012 9:26:05 AM CAHSR-r1.tbl CHSR_PDF_half_black.plt:hpworking\hmm\external\nef53329\dms09252\FB-CT1322.dgn

NET53329



CANAL REALIGNMENT
SCALE: 1"=500'

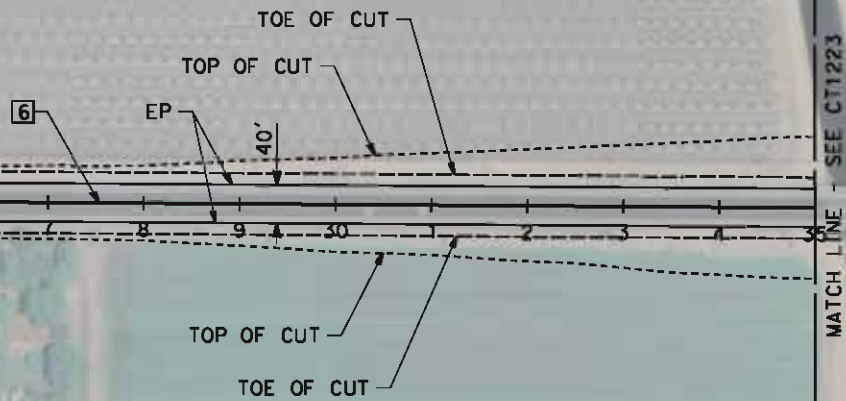
LINE DATA		
NO.	BEARING	DISTANCE
6	S89°35'53"E	3000.00'

CANAL REALIGNMENT
(SEE THIS SHEET)

PI "WKLC" 20+00.00

BOX CULVERT

"WKLC" 24+75.00
CONFORM



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY B. RAWSON
IN CHARGE G. EARLE
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
GRADE SEPARATION LAYOUT
W LACEY BOULEVARD / 13TH AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1322
SCALE AS SHOWN
SHEET NO. 11 OF 51

5/17/2012 9:28:03 AM CAHSR-r1.tbl CHSR_PDF_half_black.plt \\pwworking\hmm\external\nef53329\dms09252\FB-CT1323.dgn

NET53329

REV DATE BY CHK APP DESCRIPTION

DESIGNED BY
I. JOSIFEK

DRAWN BY
P. BARBER

CHECKED BY
B. RAWSON

IN CHARGE
O. EARLE

DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

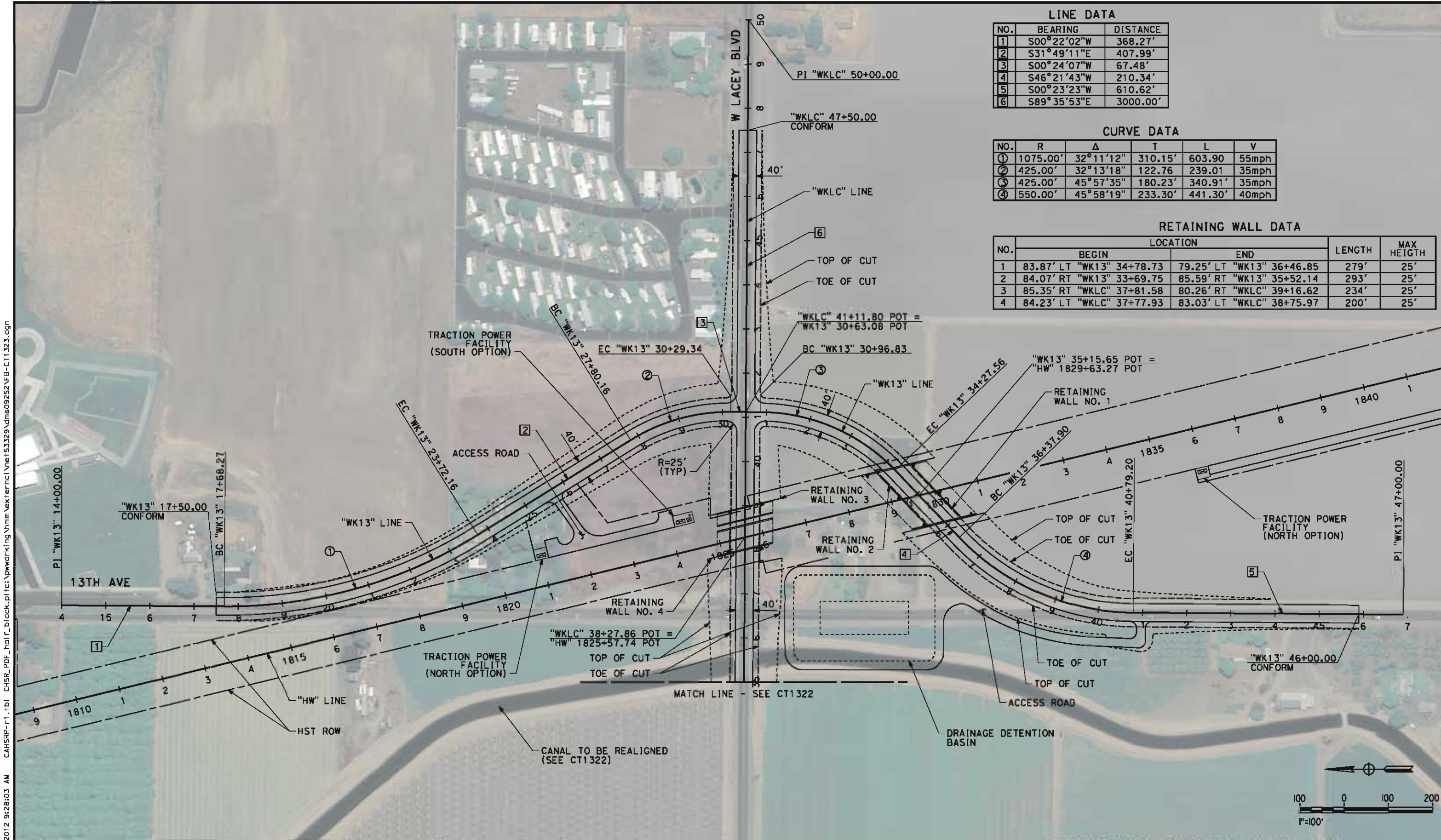
CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
GRADE SEPARATION LAYOUT
W LACEY BOULEVARD/13TH AVE

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1323

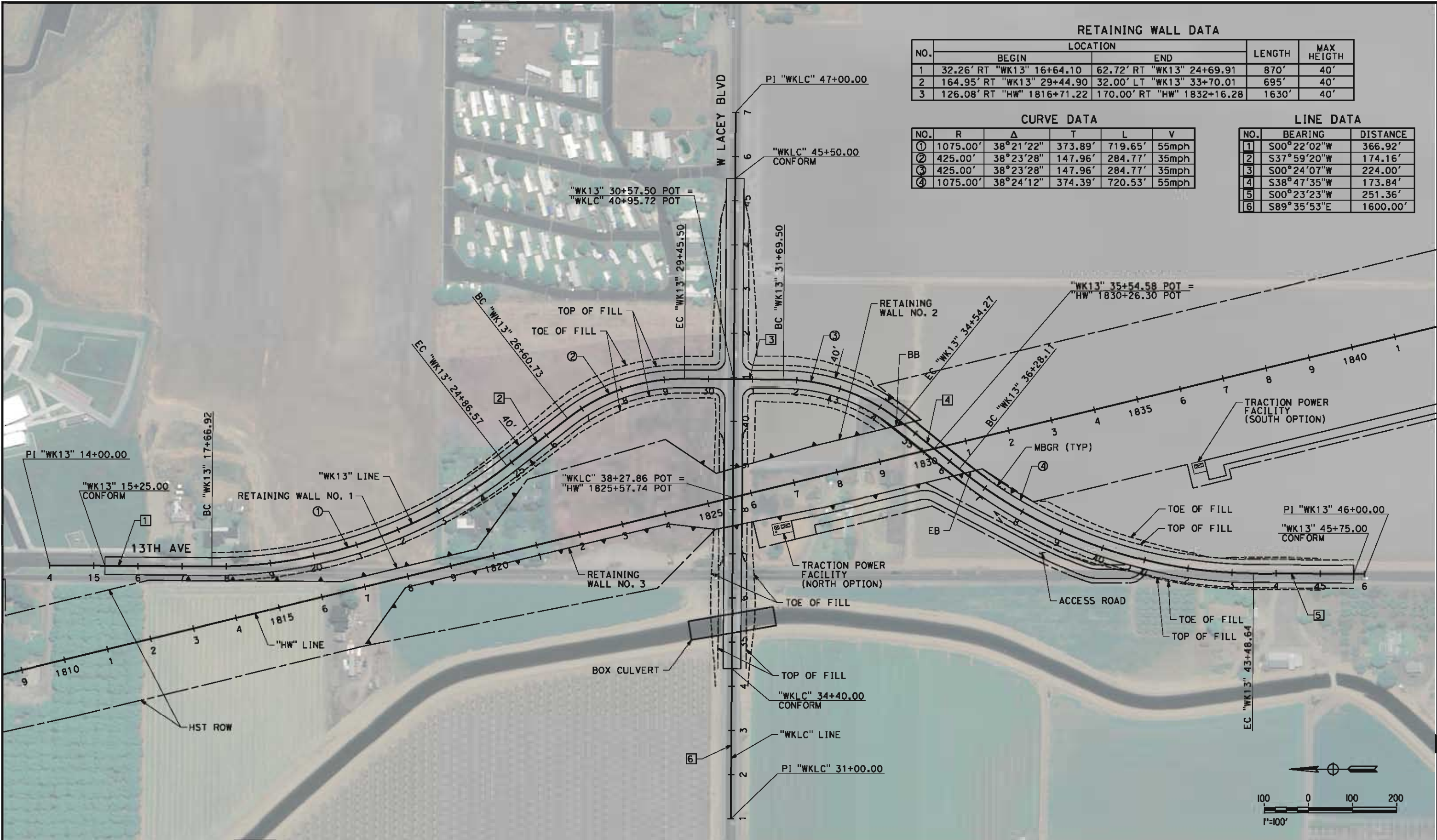
SCALE
AS SHOWN

SHEET NO.
12 OF 51



5/17/2012 9:29:56 AM CAHSR-r1.tbl CHSR_PDF_half_black.plt \\pwworking\hmm\external\nef53329\dms09252\FB-CT1325.dgn

NET53329



RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	32.26' RT "WK13" 16+64.10	62.72' RT "WK13" 24+69.91	870'	40'
2	164.95' RT "WK13" 29+44.90	32.00' LT "WK13" 33+70.01	695'	40'
3	126.08' RT "HW" 1816+71.22	170.00' RT "HW" 1832+16.28	1630'	40'

CURVE DATA				
NO.	R	Δ	T	L
①	1075.00'	38°21'22"	373.89'	719.65'
②	425.00'	38°23'28"	147.96'	284.77'
③	425.00'	38°23'28"	147.96'	284.77'
④	1075.00'	38°24'12"	374.39'	720.53'

LINE DATA		
NO.	BEARING	DISTANCE
1	S00°22'02"W	366.92'
2	S37°59'20"W	174.16'
3	S00°24'07"W	224.00'
4	S38°47'35"W	173.84'
5	S00°23'23"W	251.36'
6	S89°35'53"E	1600.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (BELOW-GRADE)
GRADE SEPARATION LAYOUT
W LACEY BOULEVARD/13TH AVE

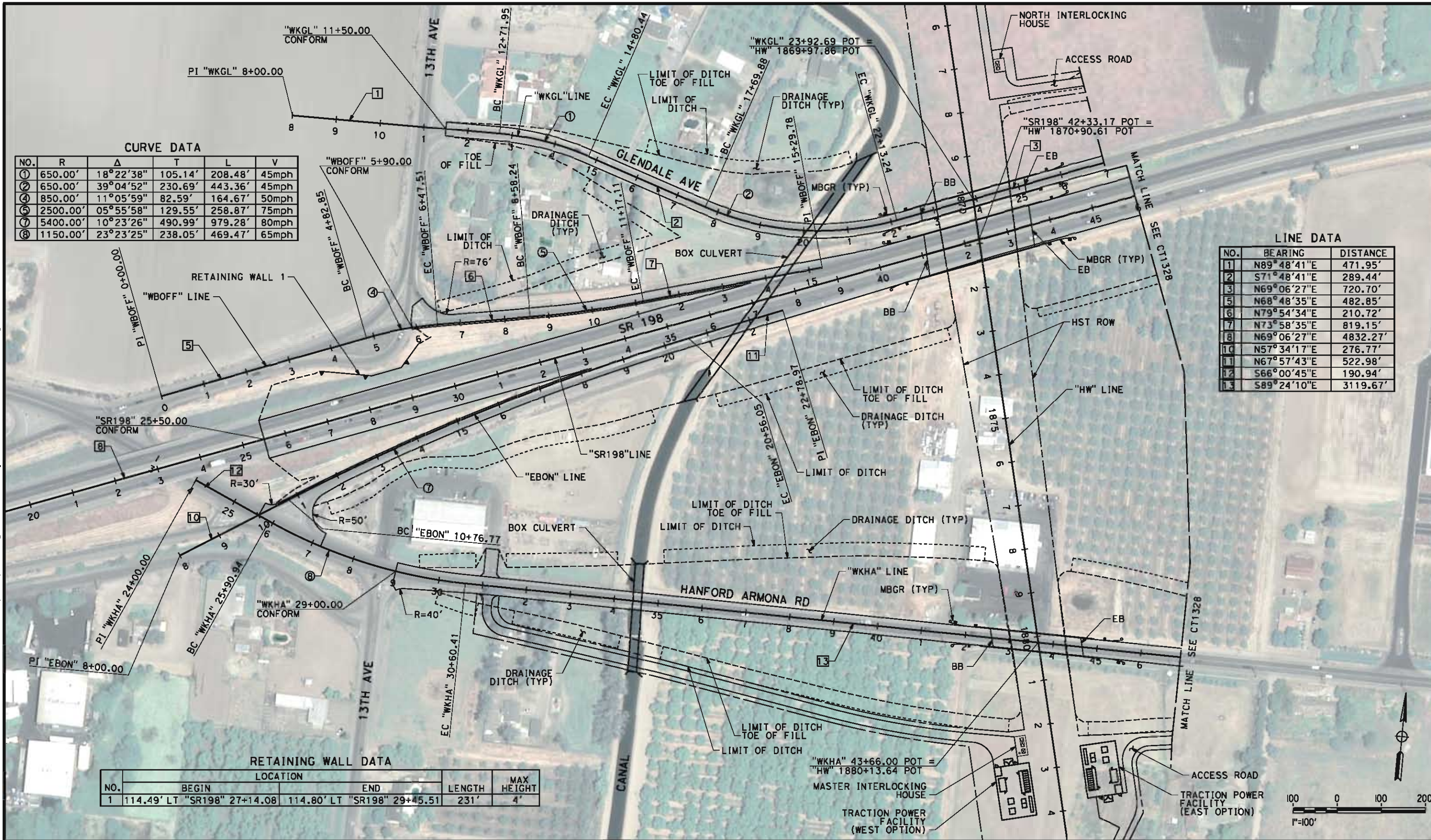
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1325
SCALE
AS SHOWN
SHEET NO.
13 OF 51

5/15/2012 9:47:00 AM CAHSR-r1.tbl CHSR_PDF_half_black.plt \\pwworking\hmm\external\jos53823\dms09252\FB-CT1327.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	650.00'	18°22'38"	105.14'	208.48'	45mph
②	650.00'	39°04'52"	230.69'	443.36'	45mph
④	850.00'	11°05'59"	82.59'	164.67'	50mph
⑤	2500.00'	05°55'58"	129.55'	258.87'	75mph
⑦	5400.00'	10°23'26"	490.99'	979.28'	80mph
⑧	1150.00'	23°23'25"	238.05'	469.47'	65mph

LINE DATA		
NO.	BEARING	DISTANCE
1	N89°48'41"E	471.95'
2	S71°48'41"E	289.44'
3	N69°06'27"E	720.70'
5	N68°48'35"E	482.85'
6	N79°54'34"E	210.72'
7	N73°58'35"E	819.15'
8	N69°06'27"E	4832.27'
10	N57°34'17"E	276.77'
11	N67°57'43"E	522.98'
12	S66°00'45"E	190.94'
13	S89°24'10"E	3119.67'

RETAINING WALL DATA				
NO.	BEGIN	END	LENGTH	MAX HEIGHT
1	114.49' LT "SR198" 27+14.08	114.80' LT "SR198" 29+45.51	231'	4'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
Q. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
GRADE SEPARATION LAYOUT
GLENDALE AVE/STATE ROUTE 198/HANFORD ARMONA RD

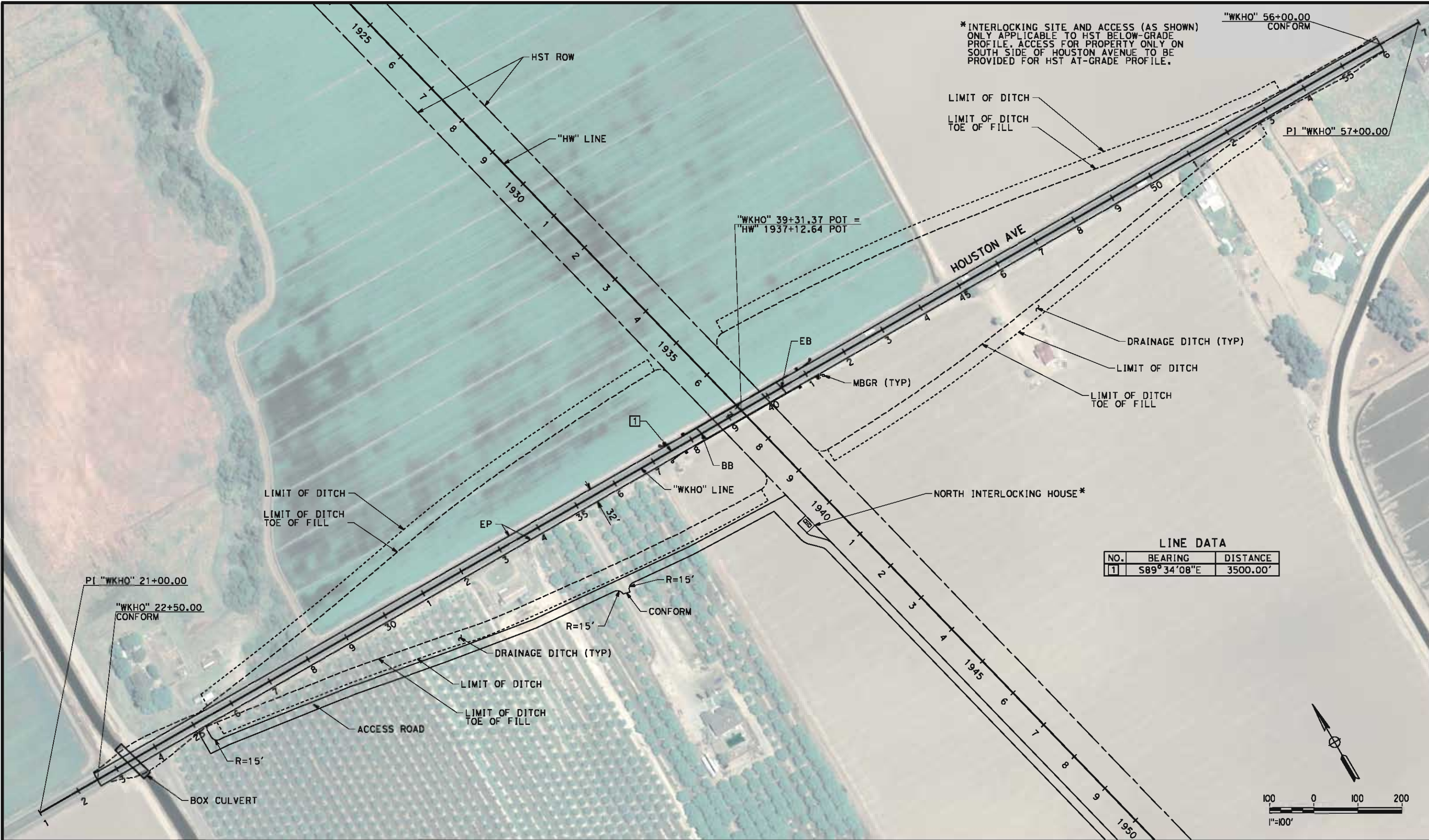
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1327
SCALE
AS SHOWN
SHEET NO.
14 OF 51

RETAINING WALL DATA					
NO.	LOCATION		LENGTH	MAX HEIGHT	
	BEGIN	END			
1	47.00' LT "SR198" 47+75.00	47.00' LT "SR198" 62+45.00	1470'	11'	

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1328
SCALE	AS SHOWN
SHEET NO.	15 OF 51

5/11/2012 8:14:10 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HW\FB-CT1334.dgn

NET53329



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

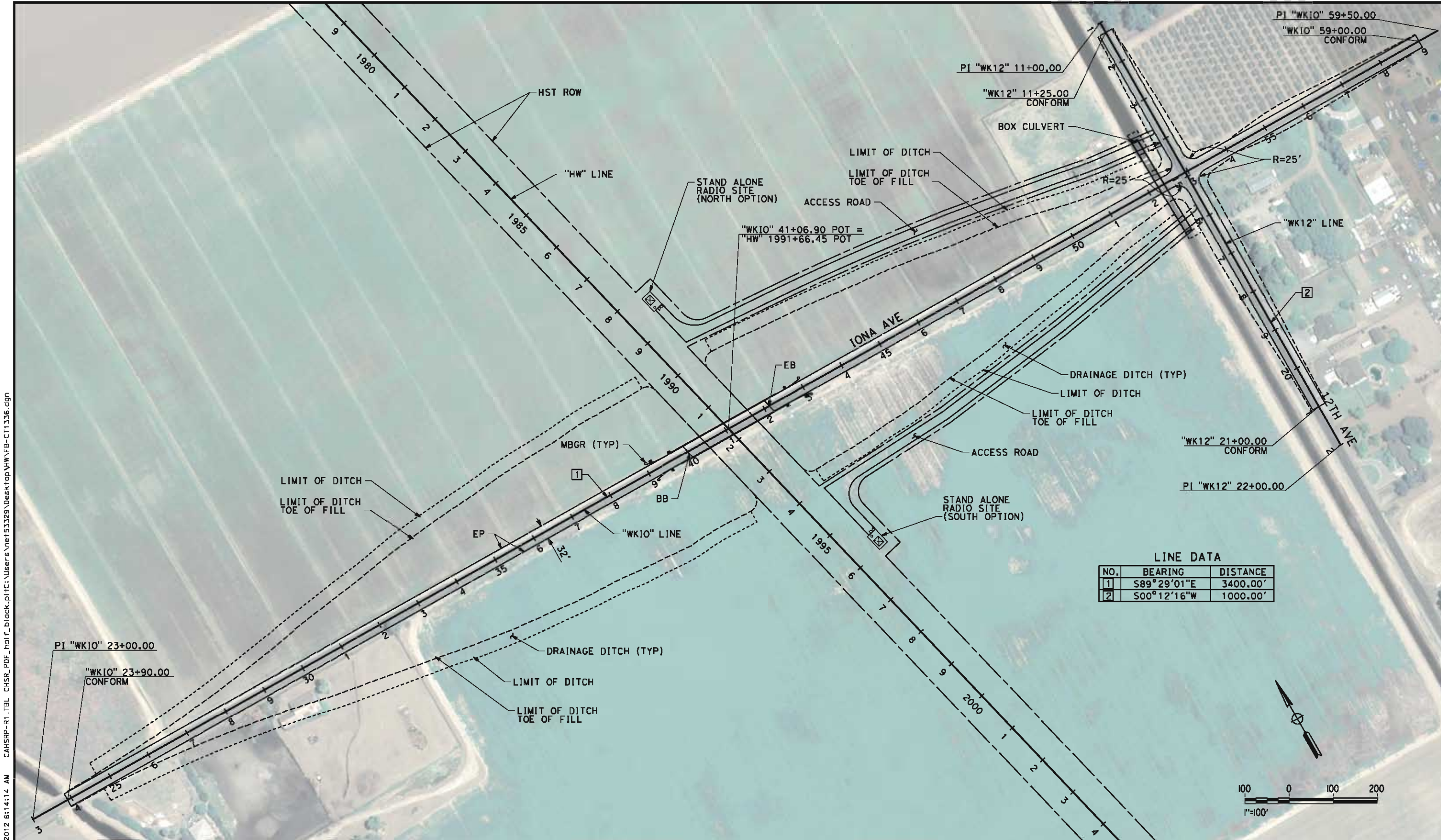


CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION LAYOUT
HOUSTON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1334
SCALE
AS SHOWN
SHEET NO.
17 OF 51

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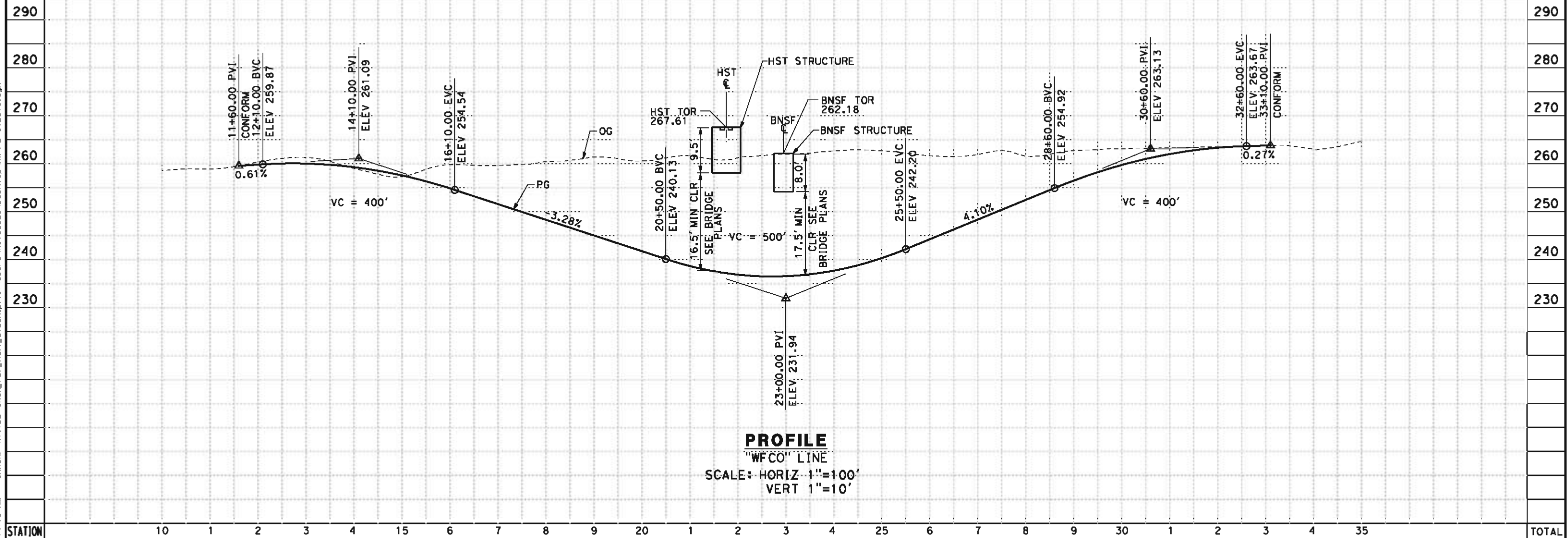
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NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST IS: 16.5'
2. VERTICAL DESIGN SPEED = 40 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
4. MIN VERTICAL CLEARANCE UNDER BNSF STRUCTURE IS: 16.5'



PROFILE
"WFCO" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	TOTAL
Exc																											
Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

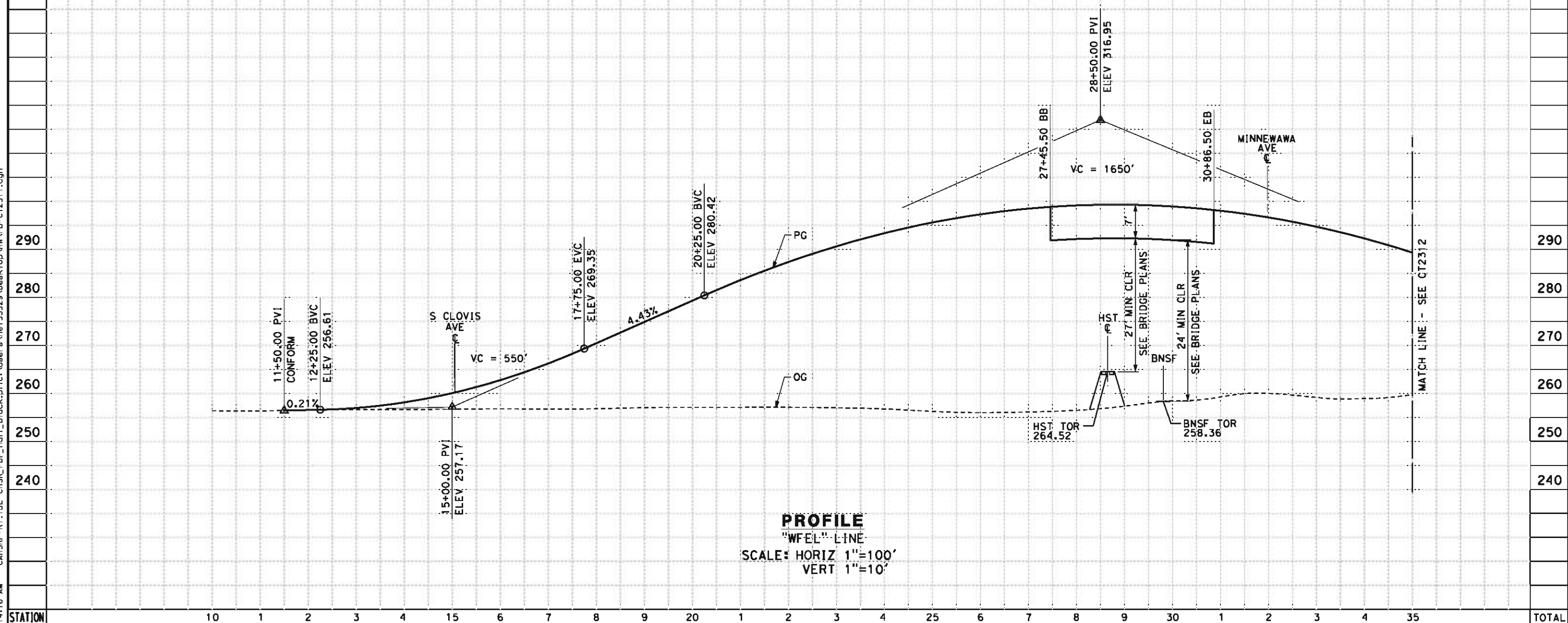


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION PROFILE
E CONEJO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2310
SCALE
AS SHOWN
SHEET NO.
19 OF 51

5/11/2012 8:14:16 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWN-B-CT2311.dgn

- NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 2. VERTICAL DESIGN SPEED = 55 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	TOTAL
CY	Exc																											
	Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

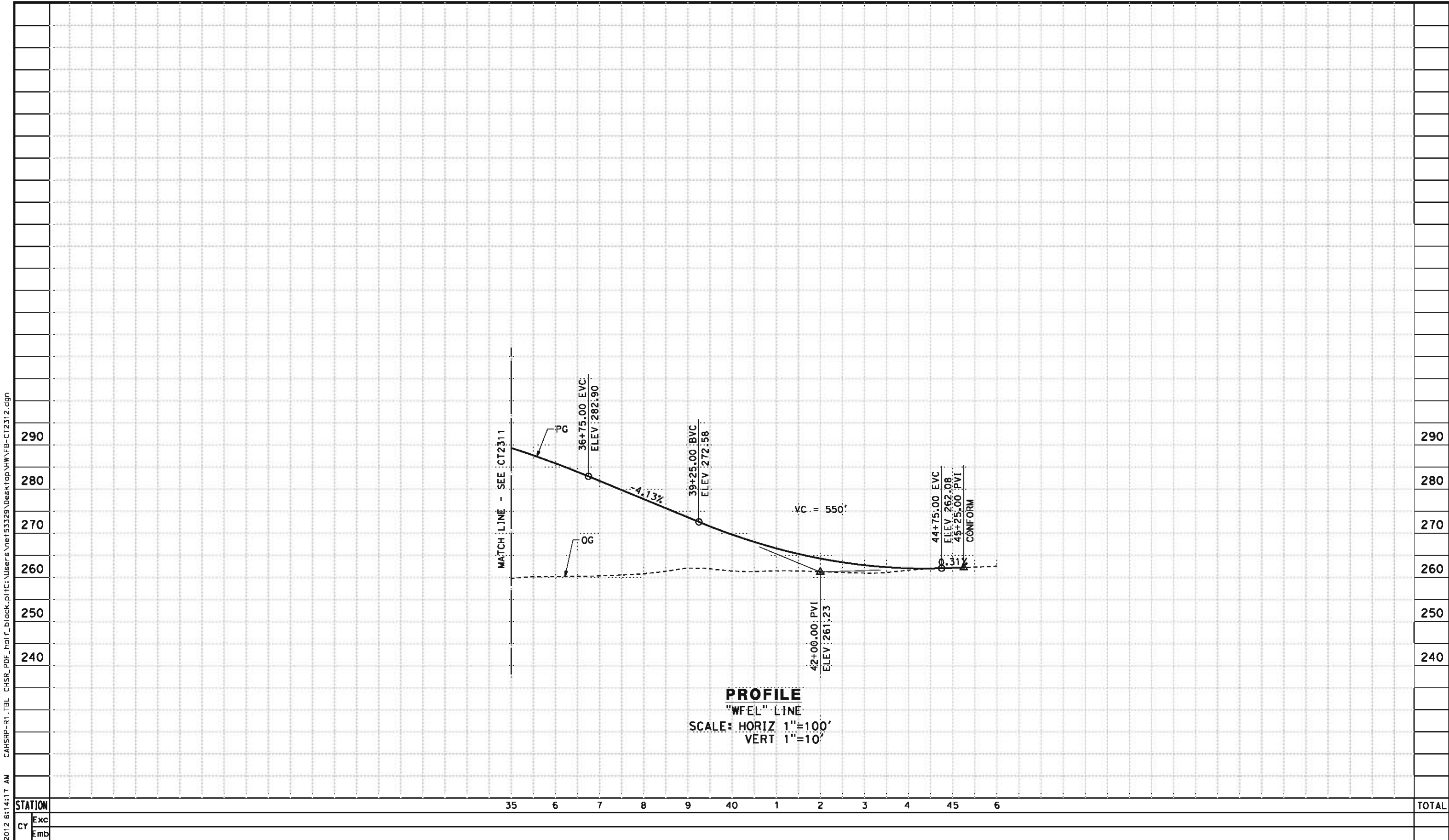
**NOT FOR
CONSTRUCTION**





**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION PROFILE
E ELKHORN AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2311
SCALE
AS SHOWN
SHEET NO.
20 OF 51

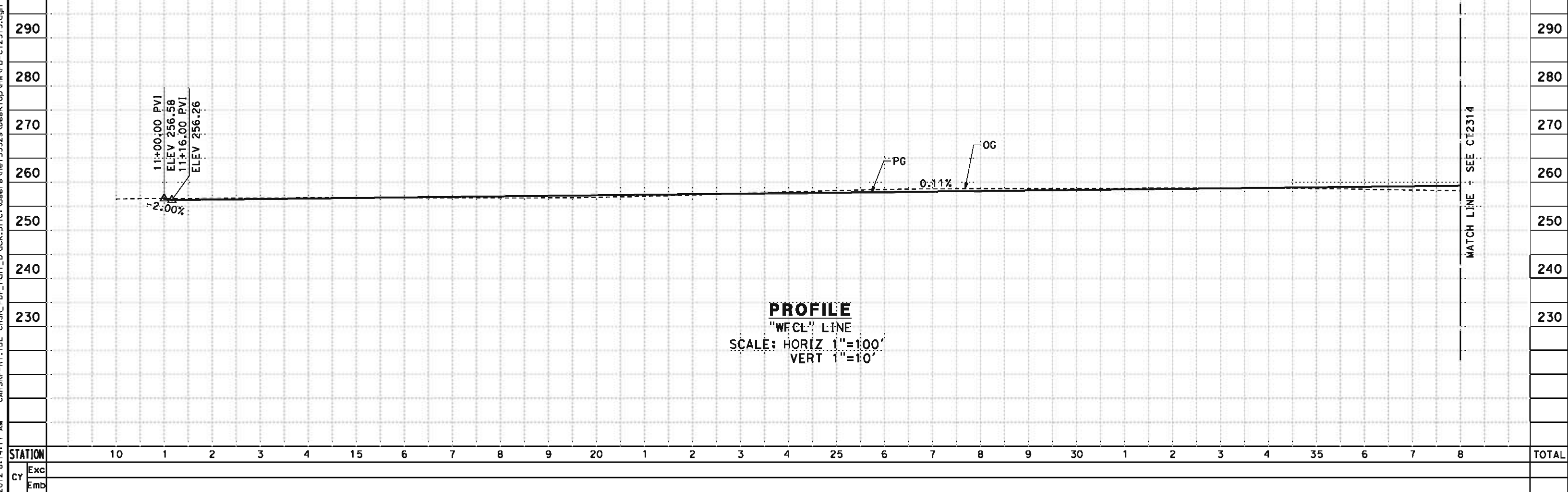
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5/11/12						DESIGNED BY J. NETTLETON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW GRADE SEPARATION PROFILE E ELKHORN AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY D. BARNHART				DRAWING NO. CT2312
						CHECKED BY B. RAWSON				SCALE AS SHOWN
						IN CHARGE O. EARLE				SHEET NO. 21 OF 51
						DATE 05/18/12				
NET/53329	REV	DATE	BY	CHK	APP	DESCRIPTION				

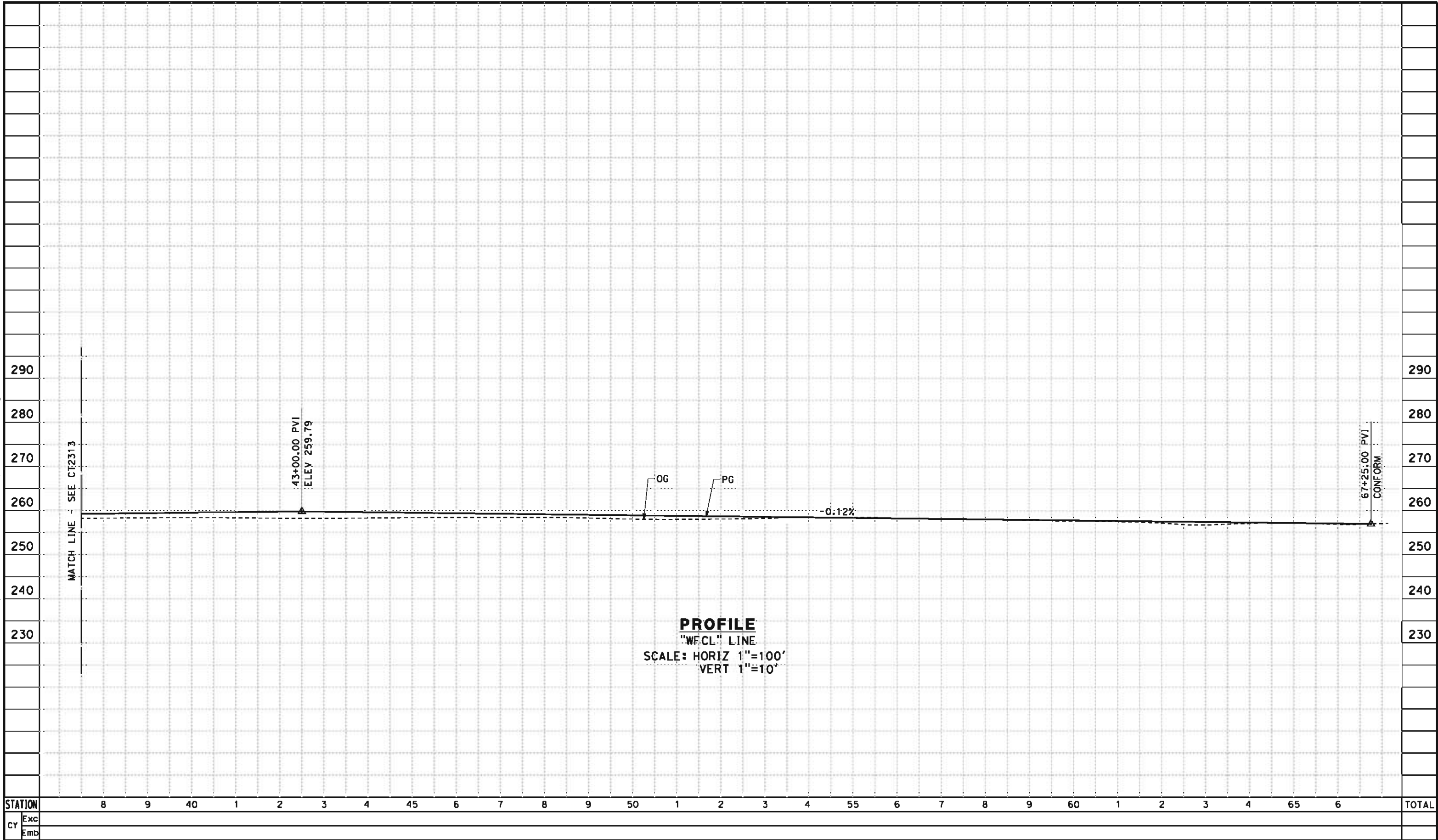
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- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



						DESIGNED BY J. NETTLETON						RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION						 						CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW GRADE SEPARATION PROFILE S CLOVIS AVE												CONTRACT NO. HSR 06-0003					
						DRAWN BY D. BARNHART																														DRAWING NO. CT2313					
						CHECKED BY B. RAWSON																														SCALE AS SHOWN					
						IN CHARGE Q. EARLE																														SHEET NO. 22 OF 51					
REV						DATE						BY						CHK						APP						DESCRIPTION						DATE 05/18/12					

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

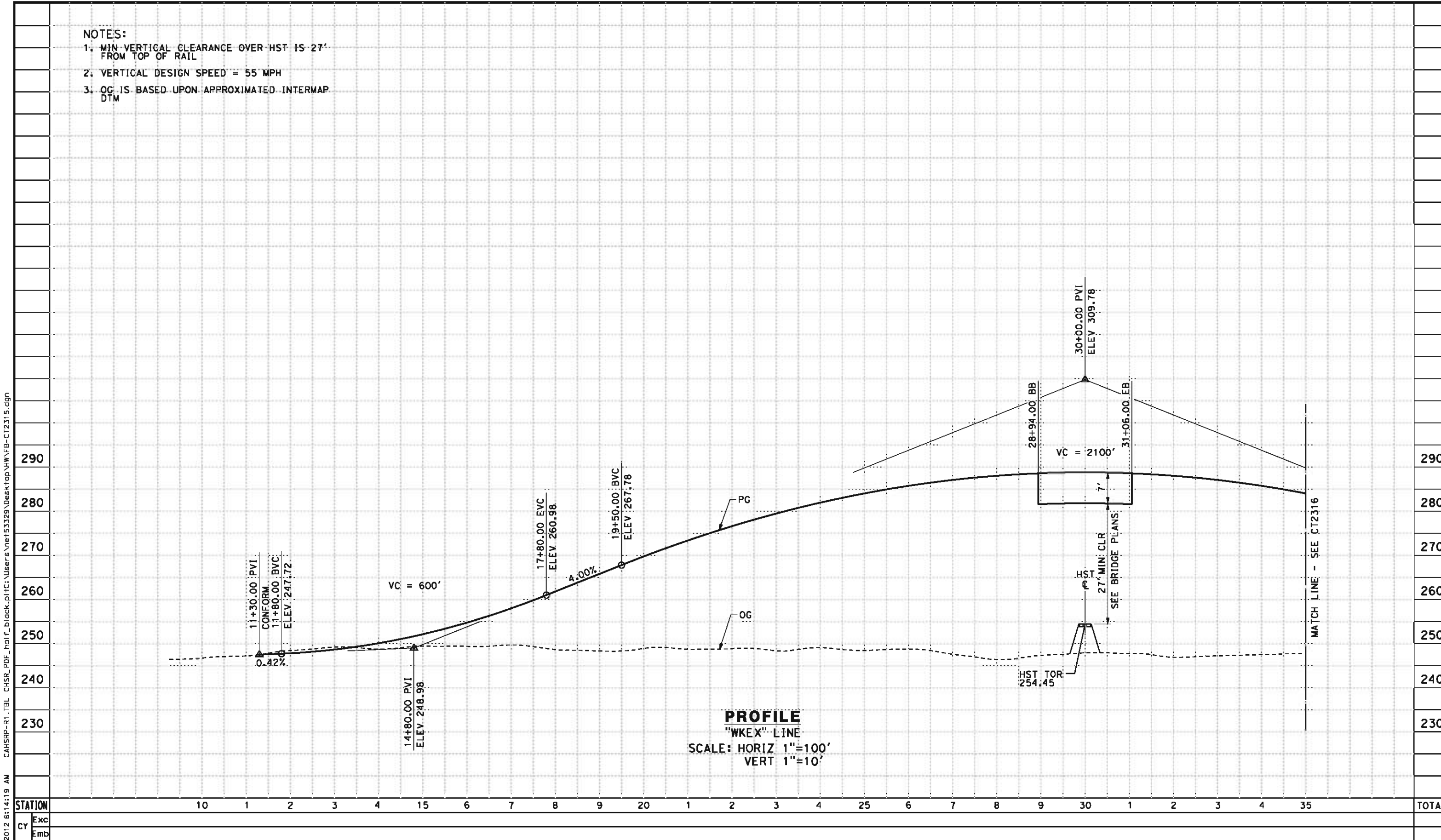


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION PROFILE
S CLOVIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2314
SCALE
AS SHOWN
SHEET NO.
23 OF 51

5/11/2012 8:14:19 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWN\B-CT2315.dgn

- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

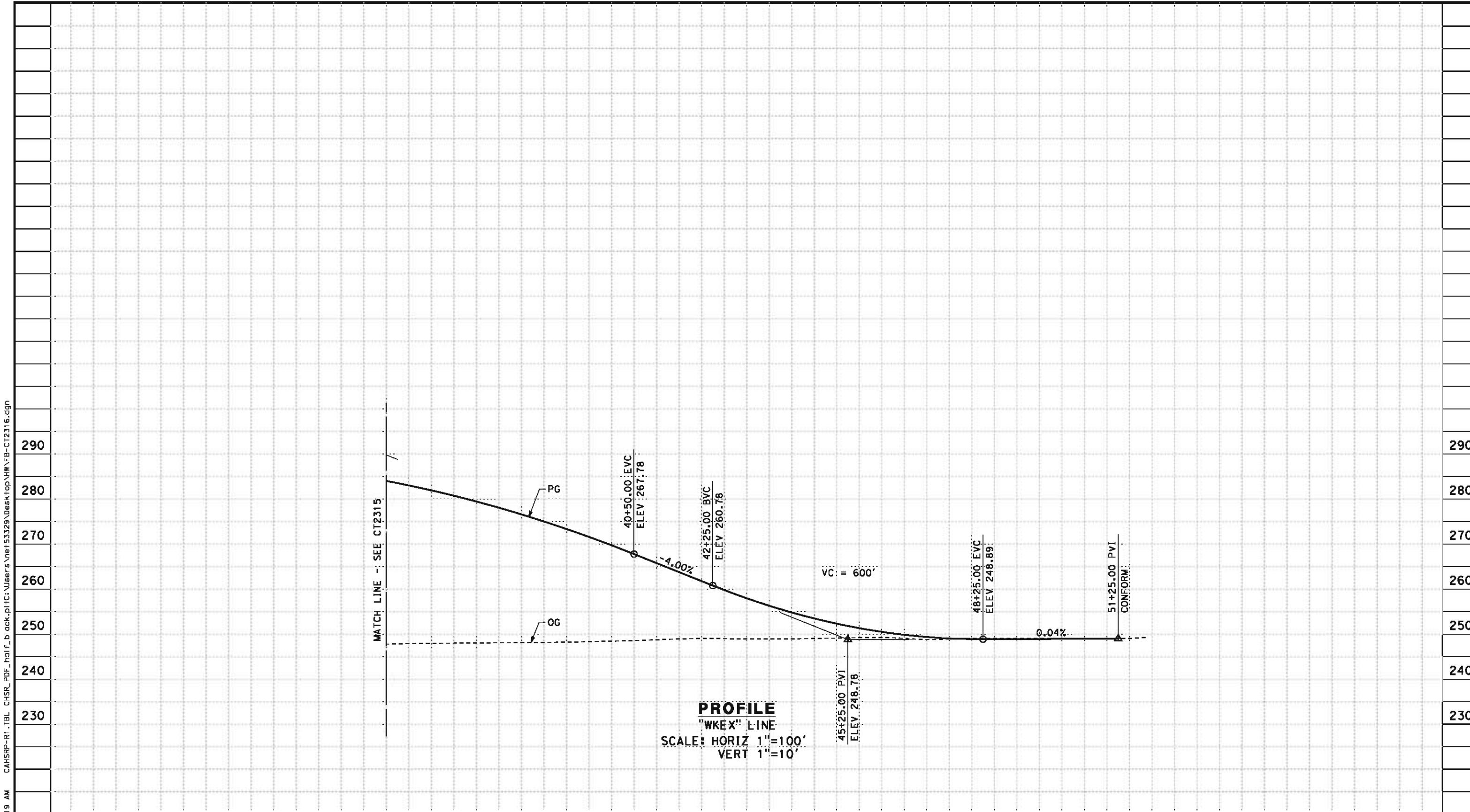


5/11

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STATION		35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	TOTAL
CY	Exc																				
	Emb																				

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

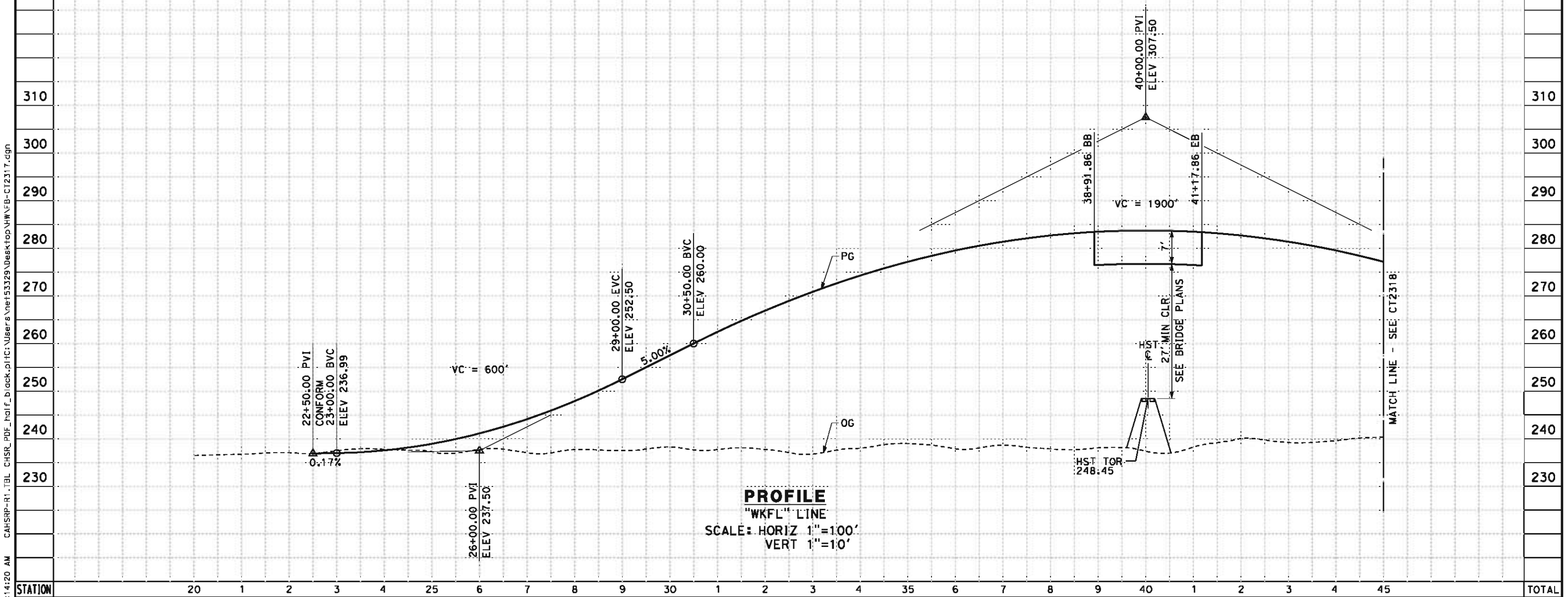
**NOT FOR
CONSTRUCTION**





**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION PROFILE
EXCELSIOR AVE

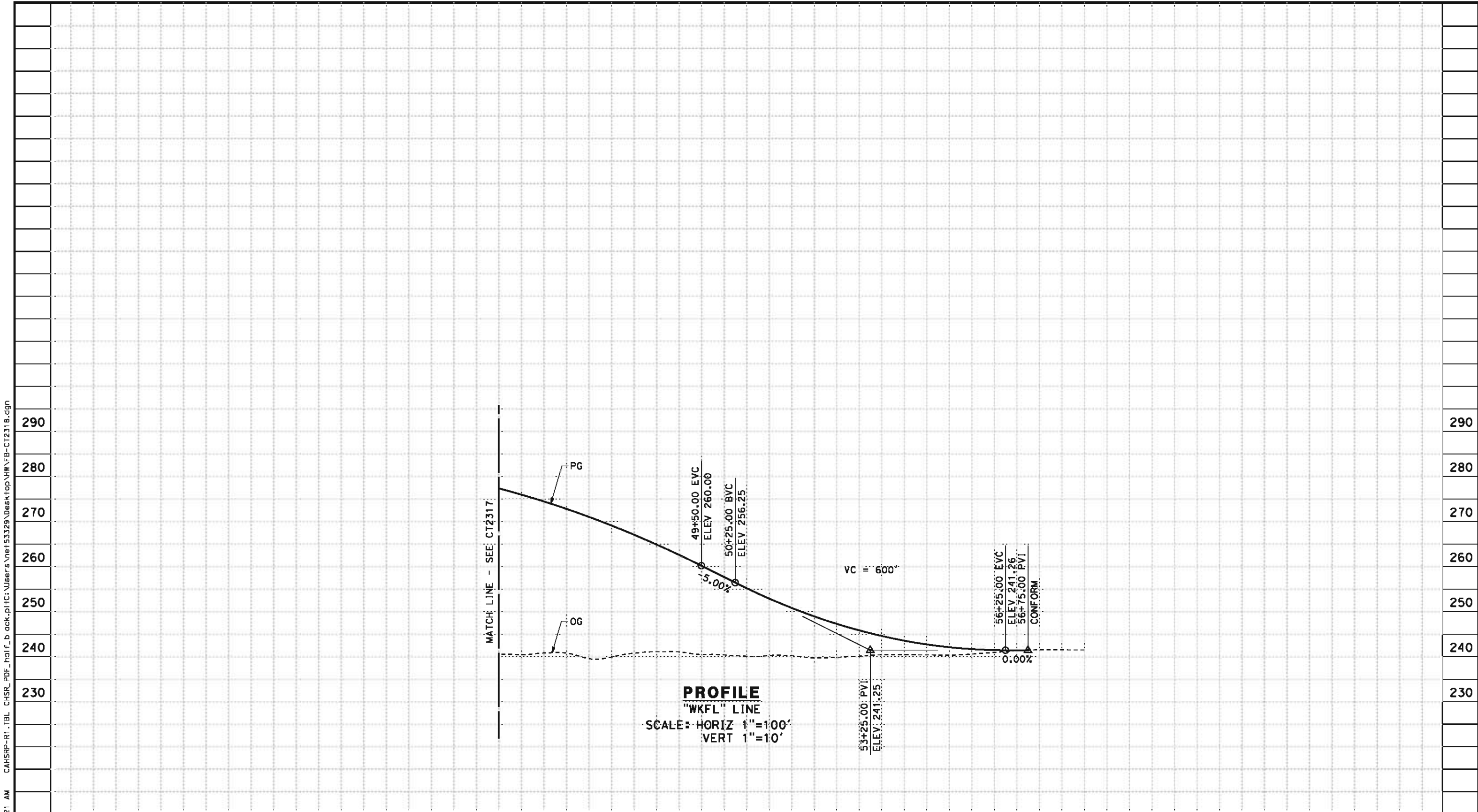
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2316
SCALE
AS SHOWN
SHEET NO.
25 OF 51

1. MIN VERTICAL CLEARANCE OVER HST IS 27'
FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP
DTM



CY	Exc																			
	Emb																			
5/11/2012							DESIGNED BY R. DEASON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW GRADE SEPARATION PROFILE FLINT AVE	CONTRACT NO. HSR 06-0003								
							DRAWN BY D. BARNHART					DRAWING NO. CT2317								
							CHECKED BY B. RAWSON					SCALE AS SHOWN								
							IN CHARGE O. EARLE					SHEET NO. 26 OF 51								
							DATE 05/18/12													
NET 153329	REV	DATE	BY	CHK	APP	DESCRIPTION														

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STATION		45	6	7	8	9	50	1	2	3	4	55	6	7	8	TOTAL
CY	Exc															
	Emb															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

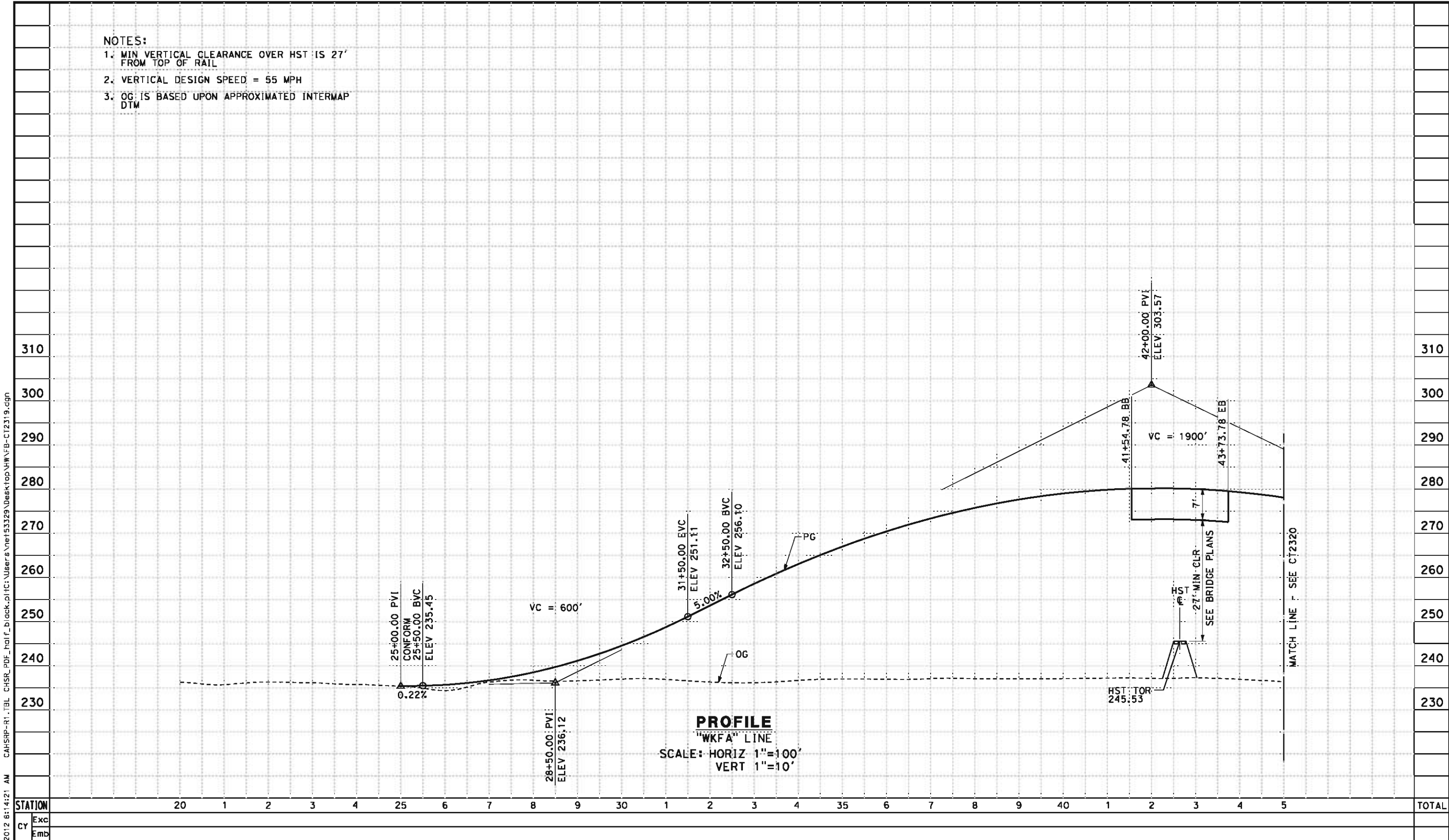


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION PROFILE
FLINT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2318
SCALE
AS SHOWN
SHEET NO.
27 OF 51

- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

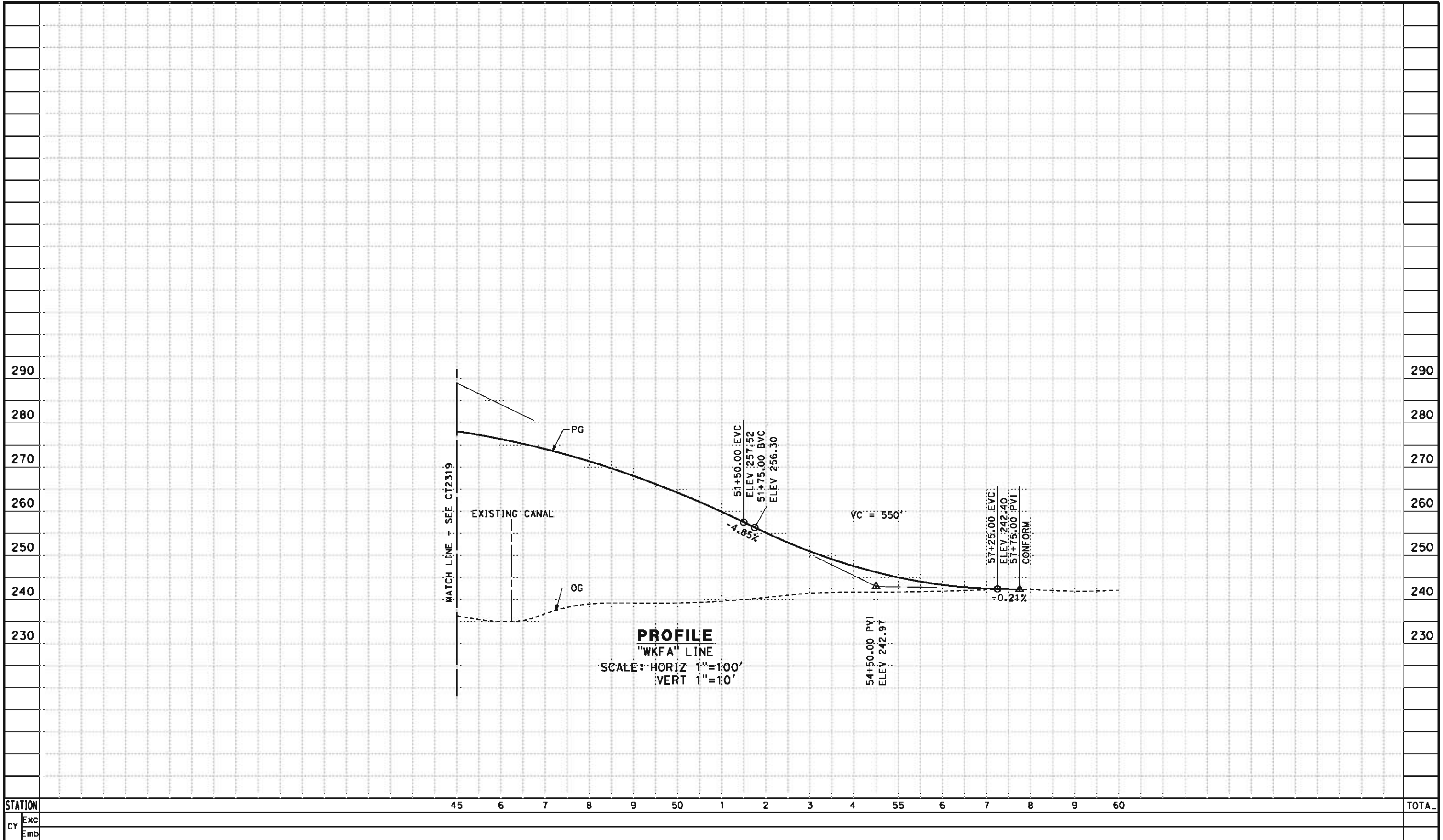
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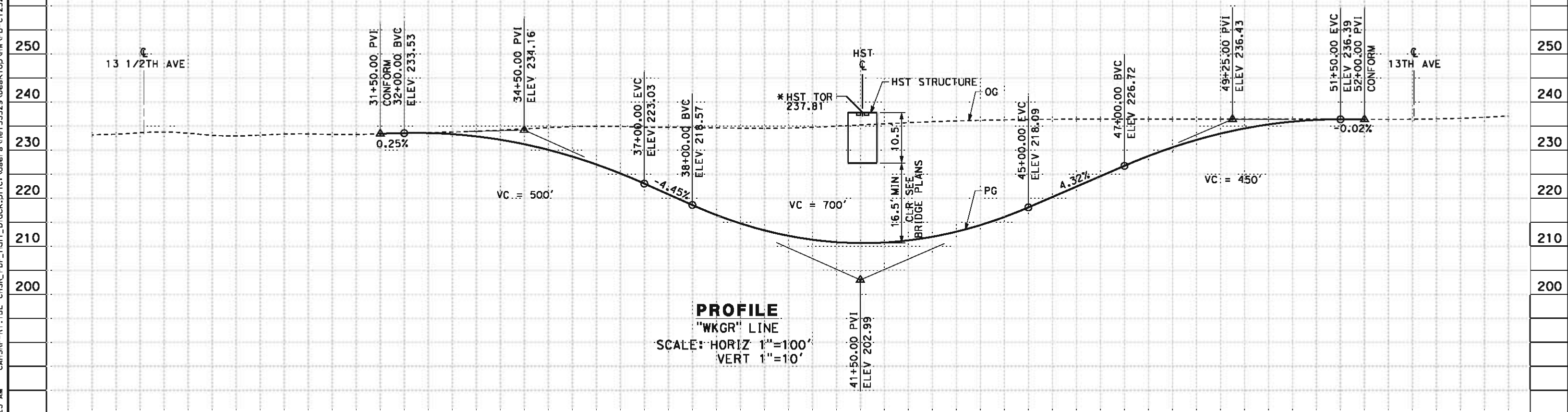
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NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST IS 16.5'
2. VERTICAL DESIGN SPEED = 45 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
4. MIN VERTICAL CLEARANCE UNDER BNSF STRUCTURE IS 16.5'

* AT-GRADE HST OPTION:
HST TOR = 238.18

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PROFILE
"WKGR" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2		TOTAL
CY	Exc																									
	Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

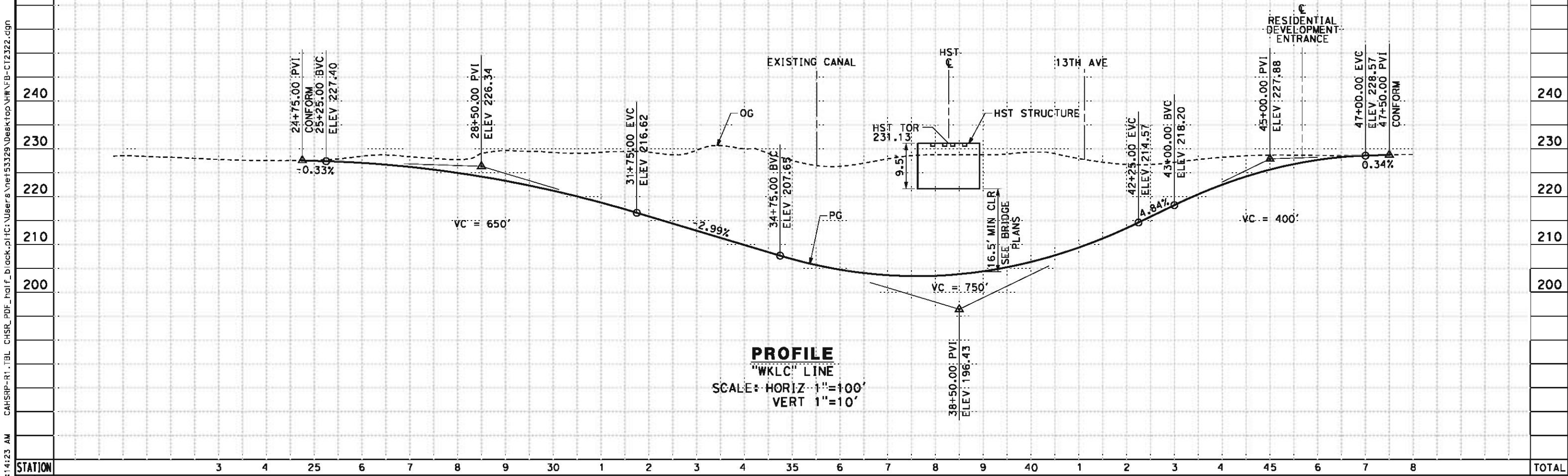




**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION PROFILE
GRANGEVILLE BLVD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2321
SCALE
AS SHOWN
SHEET NO.
30 OF 51

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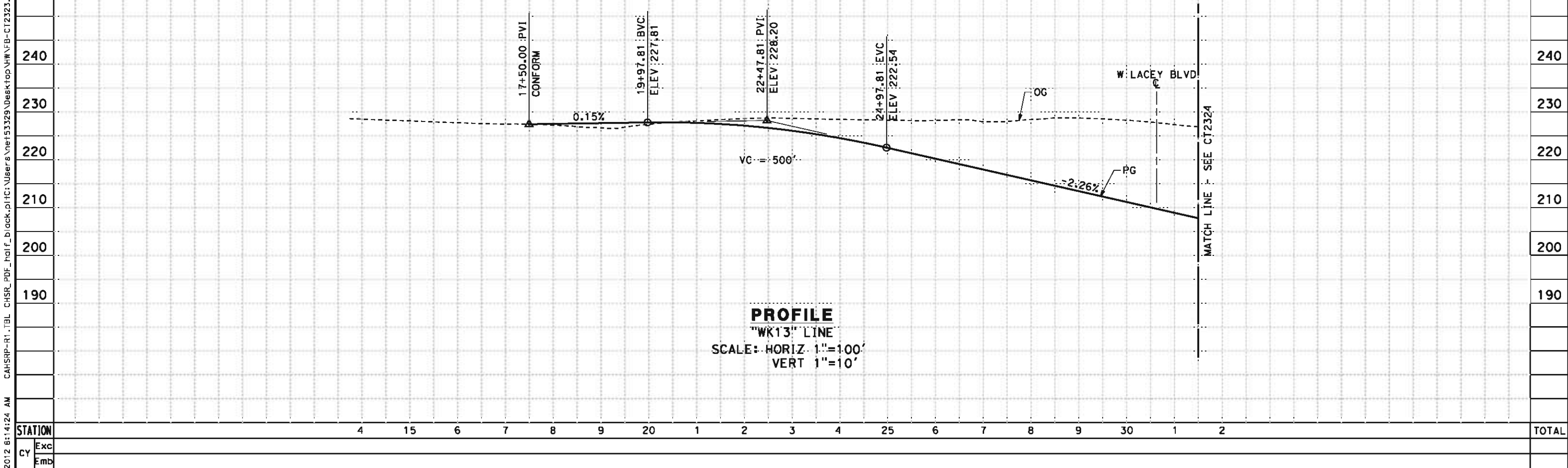
- NOTES:
- 1. MIN VERTICAL CLEARANCE UNDER HST IS 16.5'
 - 2. VERTICAL DESIGN SPEED = 40 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM





CY	Exc												
	Emb												
5/11/2012							DESIGNED BY	RECORD SET 15% DESIGN SUBMISSION			CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CONTRACT NO. HSR 06-0003	
							DRAWN BY						NOT FOR CONSTRUCTION
							CHECKED BY						
							IN CHARGE						
NET 53329							Q. EARLE					CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW (AT-GRADE) GRADE SEPARATION PROFILE W LACEY BLVD	
							DATE				CONTRACT NO. HSR 06-0003		
							05/18/12				DRAWING NO. CT2322		
											SCALE AS SHOWN		
	REV	DATE	BY	CHK	APP	DESCRIPTION						SHEET NO. 31 OF 51	

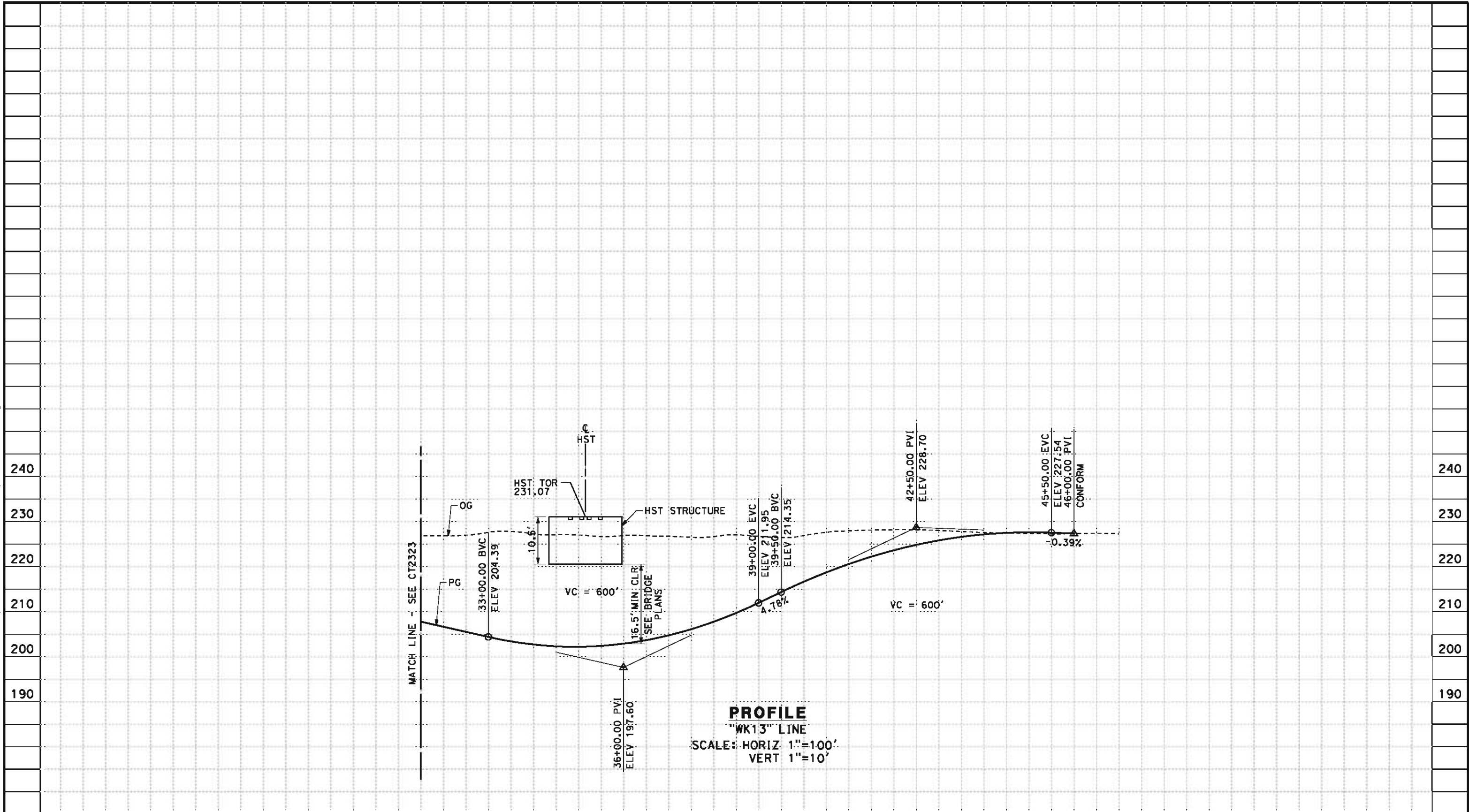
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- NOTES:
- 1. MIN VERTICAL CLEARANCE UNDER HST IS 16.5'
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



5/11/12							DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW (AT-GRADE) GRADE SEPARATION PROFILE 13TH AVE	CONTRACT NO. HSR 06-0003
							DRAWING NO. CT2323					
							SCALE AS SHOWN					
							SHEET NO. 32 OF 51					
NET 153329	REV	DATE	BY	CHK	APP	DESCRIPTION	CHECKED BY B. RAWSON					
							IN CHARGE O. EARLE					
							DATE 05/18/12					

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STATION		30	1	2	3	4	5	6	7	8	9	40	1	2	3	4	45	6	7	TOTAL
CY	Exc																			
	Emb																			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK

DRAWN BY
D. BARNHART

CHECKED BY
B. RAWSON

IN CHARGE
O. EARLE

DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
GRADE SEPARATION PROFILE
13TH AVE

CONTRACT NO.
HSR 06-0003

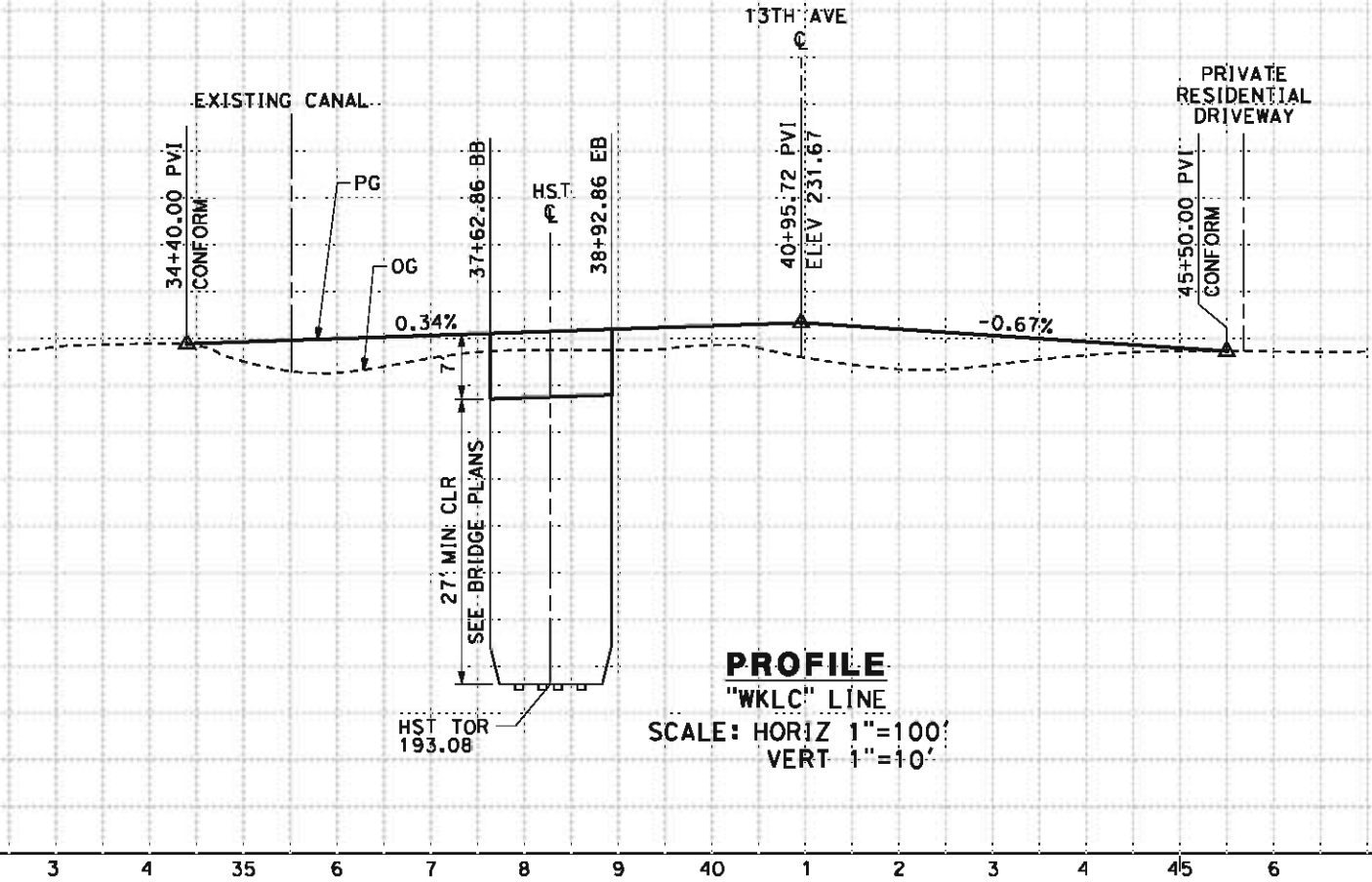
DRAWING NO.
CT2324

SCALE
AS SHOWN

SHEET NO.
33 OF 51

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- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		3	4	35	6	7	8	9	40	1	2	3	4	45	6	TOTAL
CY	Exc															
	Emb															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



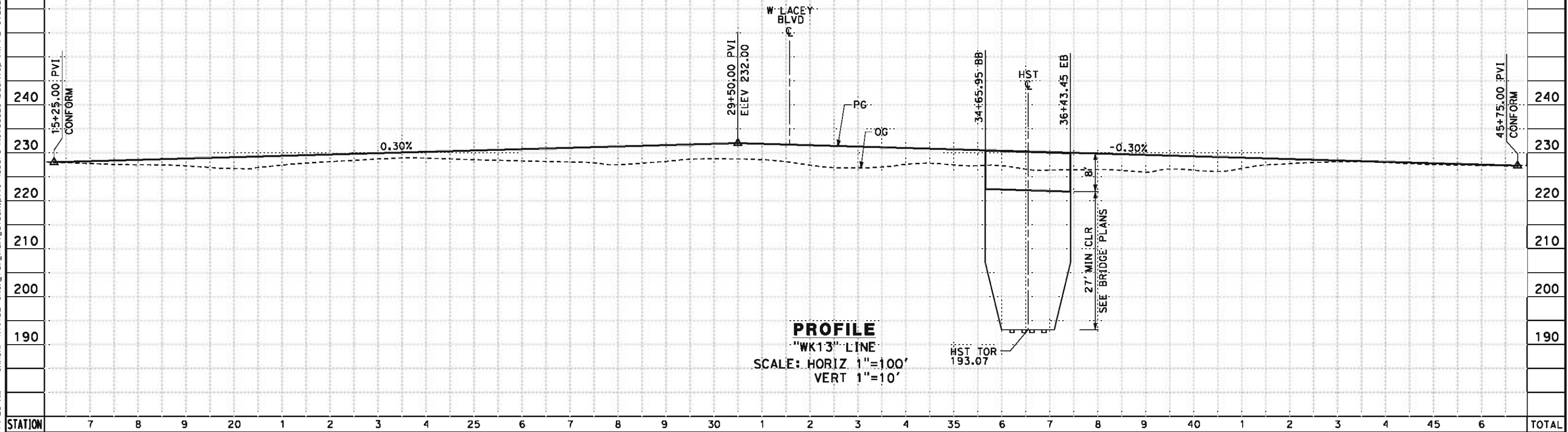
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (BELOW-GRADE)
GRADE SEPARATION PROFILE
W LACEY BLVD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2325
SCALE
AS SHOWN
SHEET NO.
34 OF 51

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NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK

DRAWN BY
D. BARNHART

CHECKED BY
B. RAWSON

IN CHARGE
O. EARLE

DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (BELOW-GRADE)
GRADE SEPARATION PROFILE
13TH AVE

CONTRACT NO.
HSR 06-0003

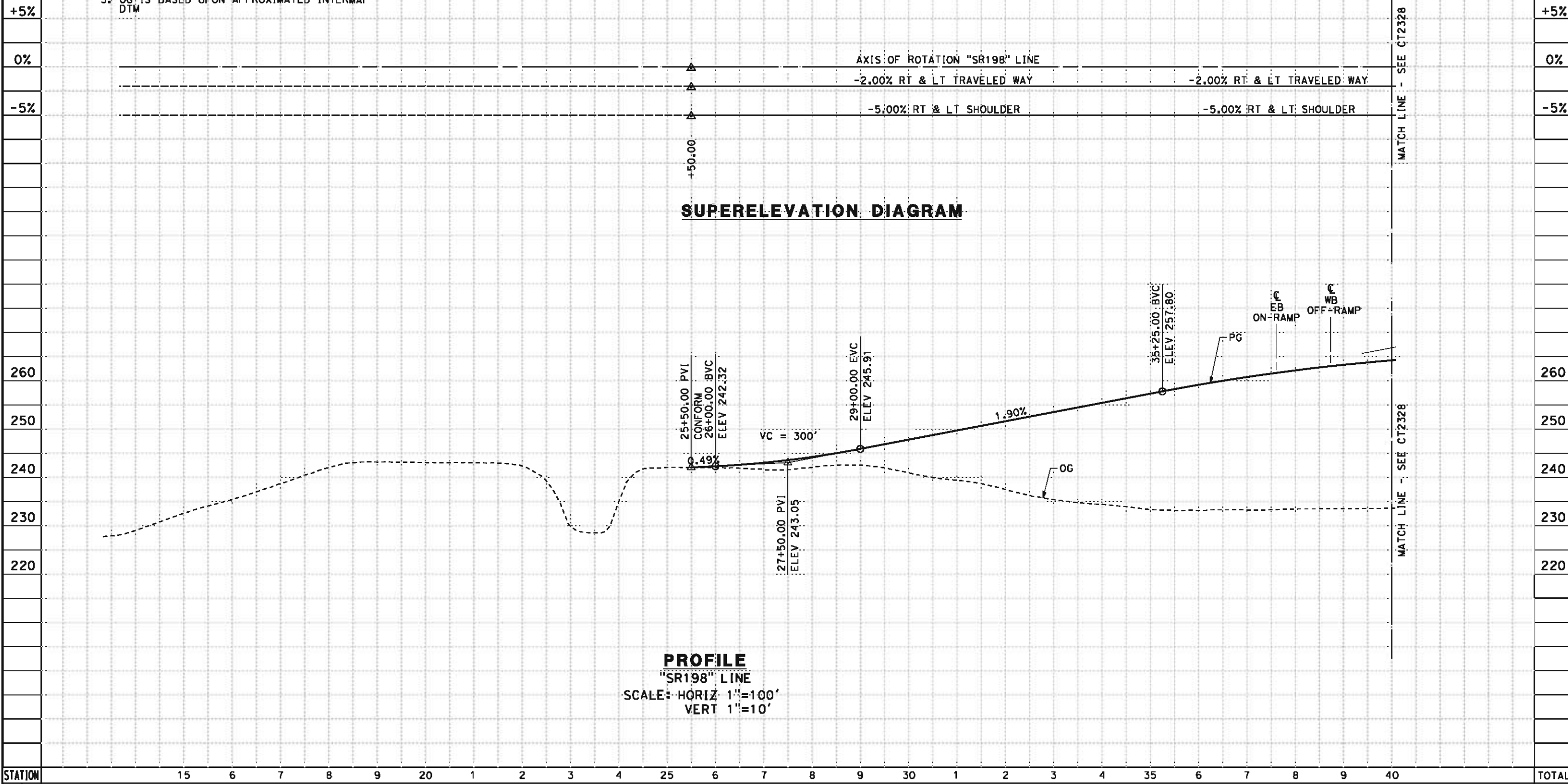
DRAWING NO.
CT2326

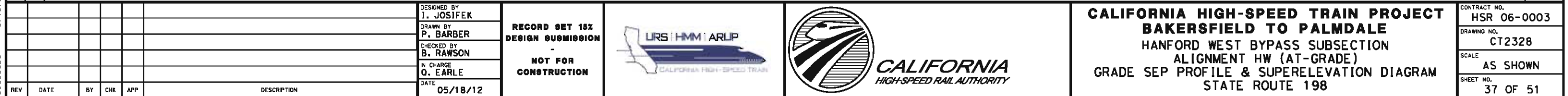
SCALE
AS SHOWN

SHEET NO.
35 OF 51

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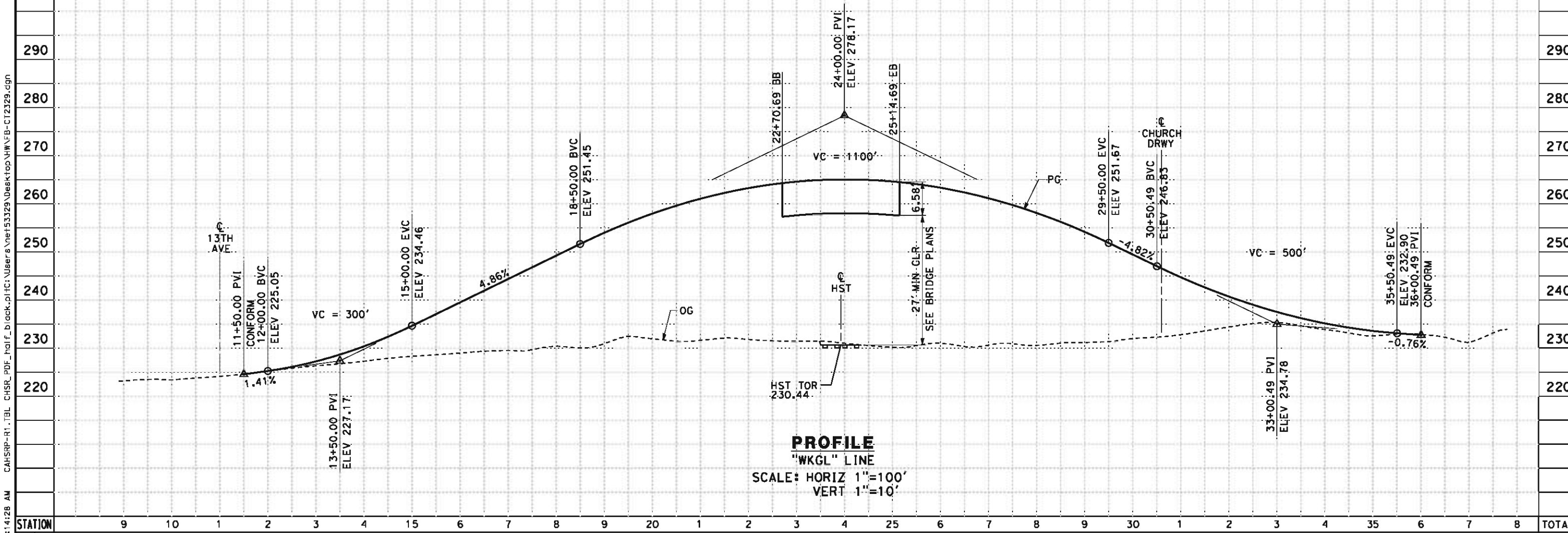
- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 70 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM





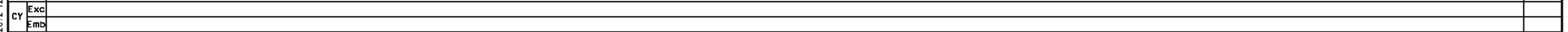
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- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 40 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



CY	Exc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 45 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

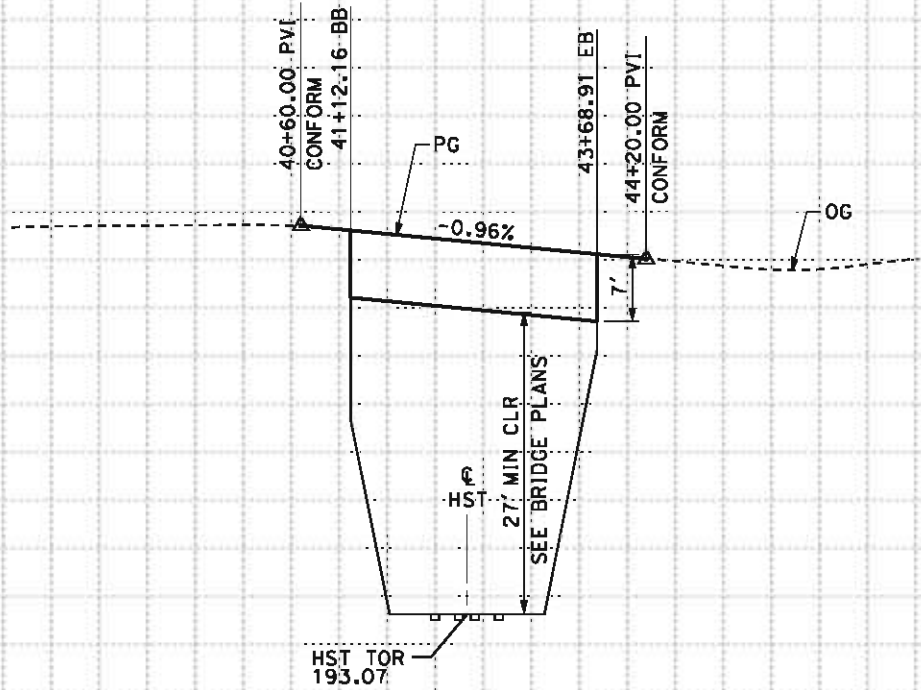


						DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW (AT-GRADE) GRADE SEPARATION PROFILE HANFORD ARMONA RD	CONTRACT NO. HSR 06-0003
						DRAWN BY P. BARBER					DRAWING NO. CT2330
						CHECKED BY B. RAWSON					SCALE AS SHOWN
						IN CHARGE G. EARLE					SHEET NO. 39 OF 51
						DATE 05/18/12					
REV	DATE	BY	CHK	APP	DESCRIPTION						

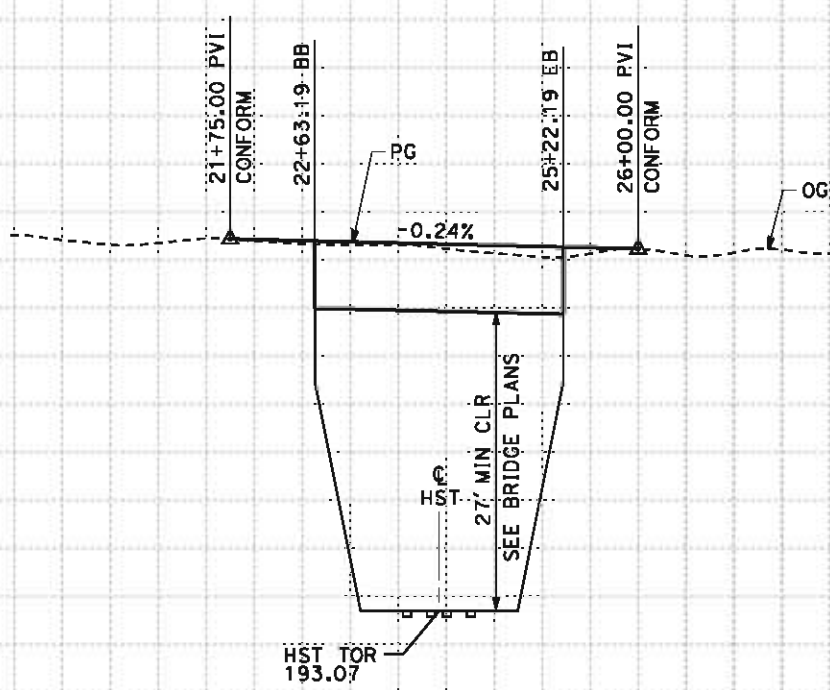
- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

AXIS OF ROTATION "SR198" LINE
-2.00% RT & LT TRAVELED WAY & SHLD

SUPERELEVATION DIAGRAM



PROFILE
"SR198" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'



PROFILE
"WKGL" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

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STATION						40	1	2	3	4	45	20	1	2	3	4	25	6	7	TOTAL
CY	Exc																			
	Emb																			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY B. RAWSON
IN CHARGE O. EARLE
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (BELOW-GRADE)
GRADE SEPARATION PROFILE
STATE ROUTE 198/GLENDALE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2332
SCALE AS SHOWN
SHEET NO. 41 OF 51

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- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

260

250

240

230

220

210

200

190

STATION

Exc

Emb

REV

DATE

BY

CHK

APP

DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (BELOW-GRADE)
GRADE SEPARATION PROFILE
HANFORD ARMONA RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2333
SCALE
AS SHOWN
SHEET NO.
42 OF 51

260

250

240

230

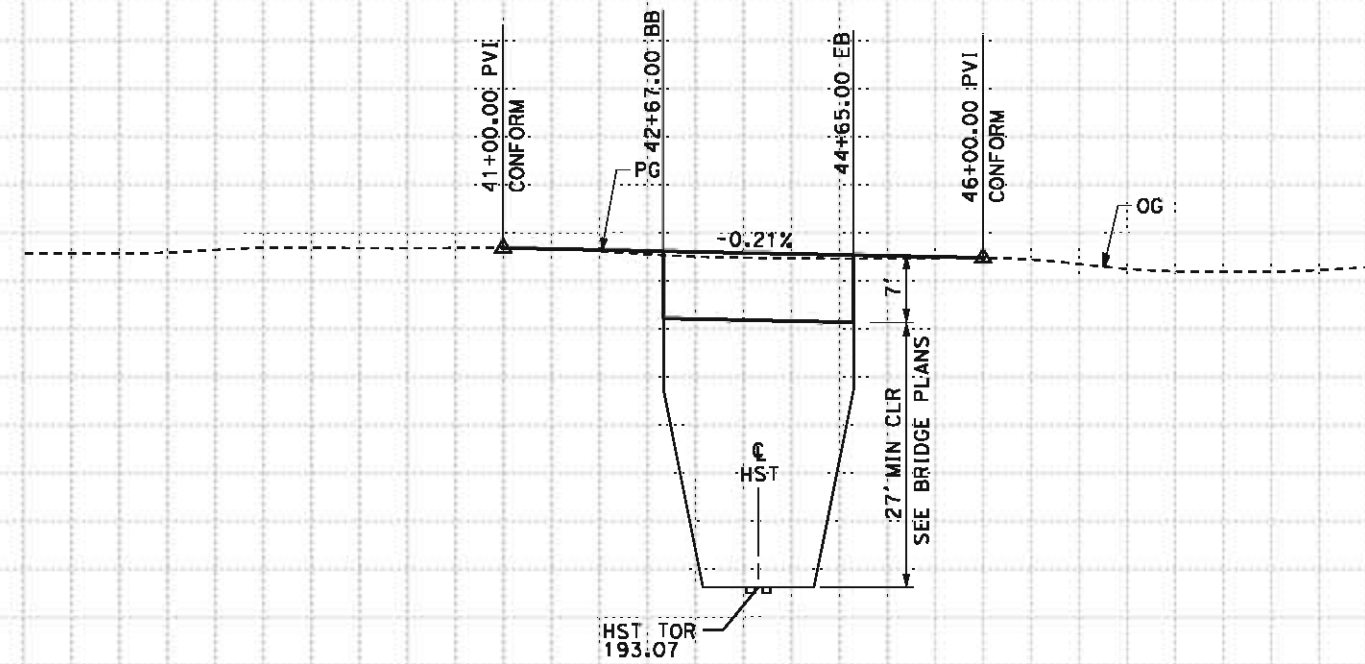
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210

200

190

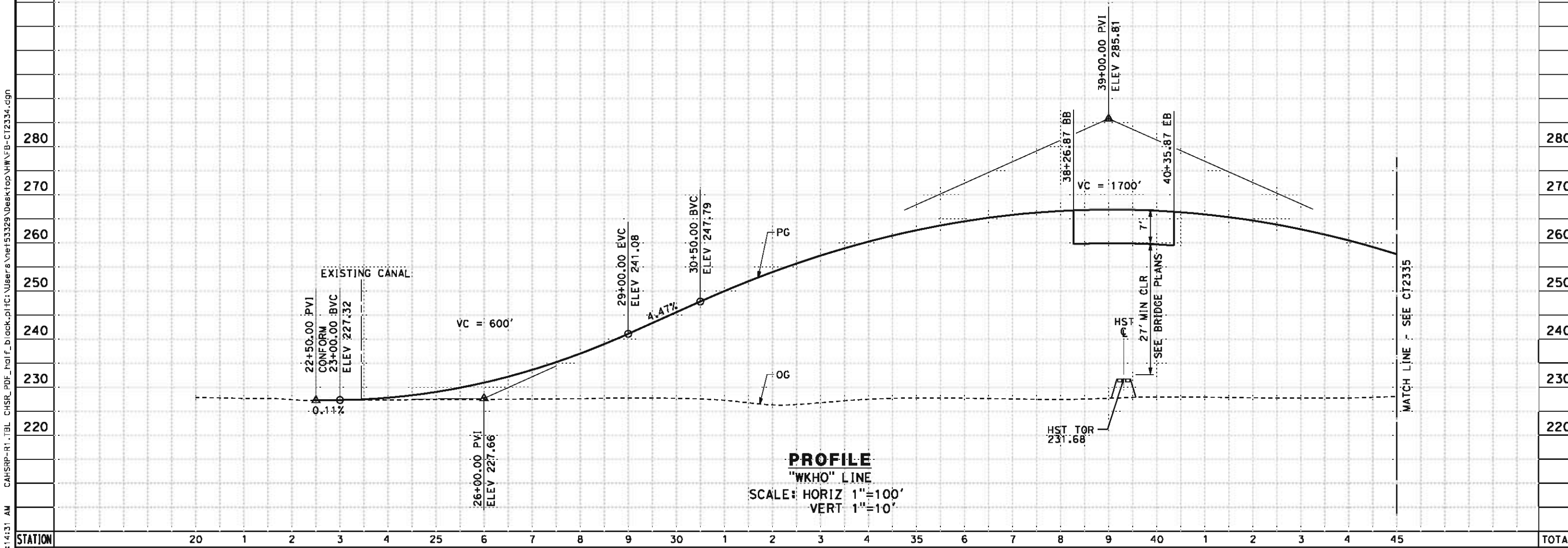
TOTAL



PROFILE
"WKHA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

5/11/2012 8:14:31 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWN-B-CT2334.dgn

- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	TOTAL
CY	Exc																											
	Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

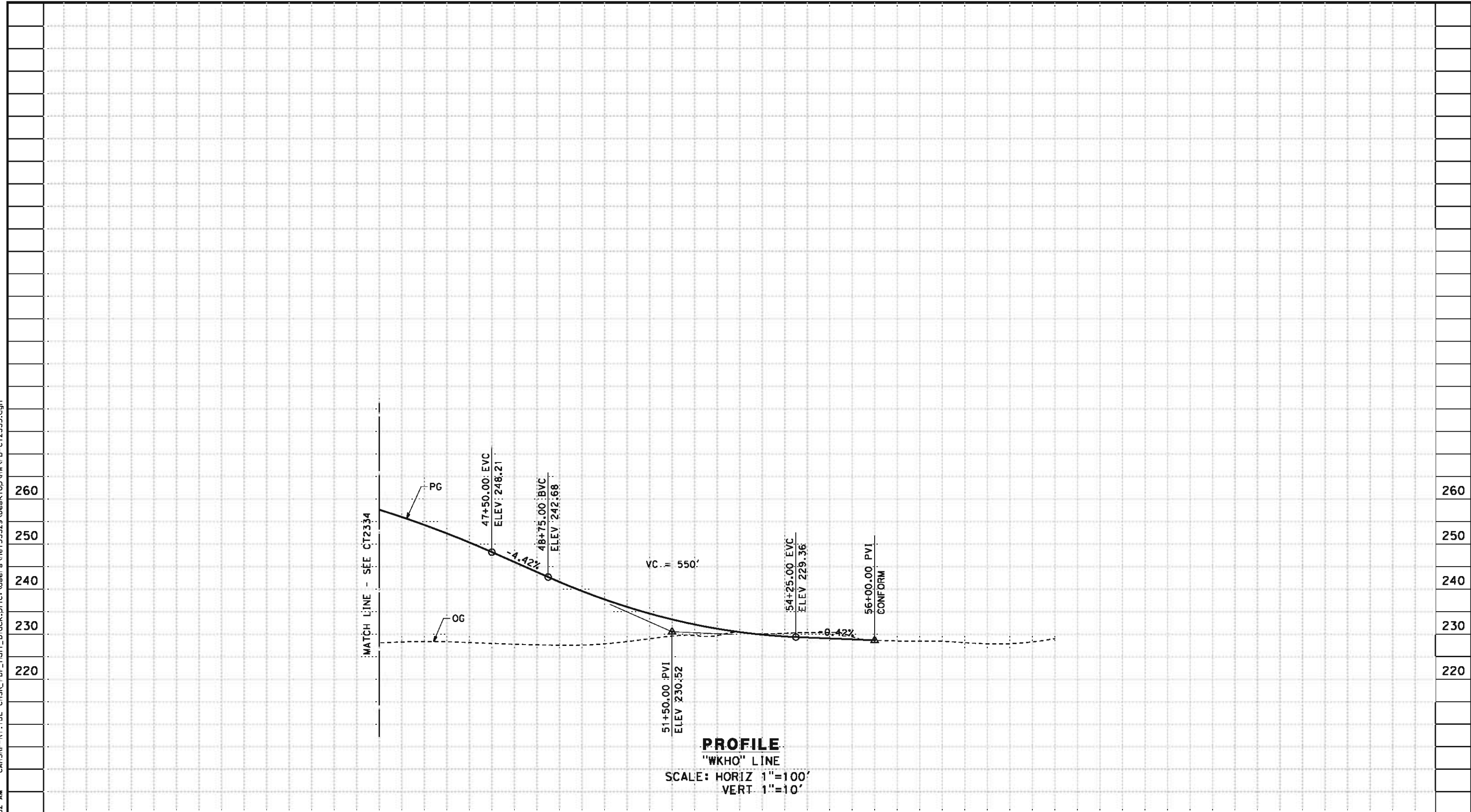
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION PROFILE
HOUSTON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2334
SCALE
AS SHOWN
SHEET NO.
43 OF 51

NET153329 5/11/2012 8:14:32 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net153329\Desktop\HWN\B-CT2335.dgn



STATION		45	6	7	8	9	50	1	2	3	4	55	6	7	8	9	60	TOTAL
CY	Exc																	
	Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

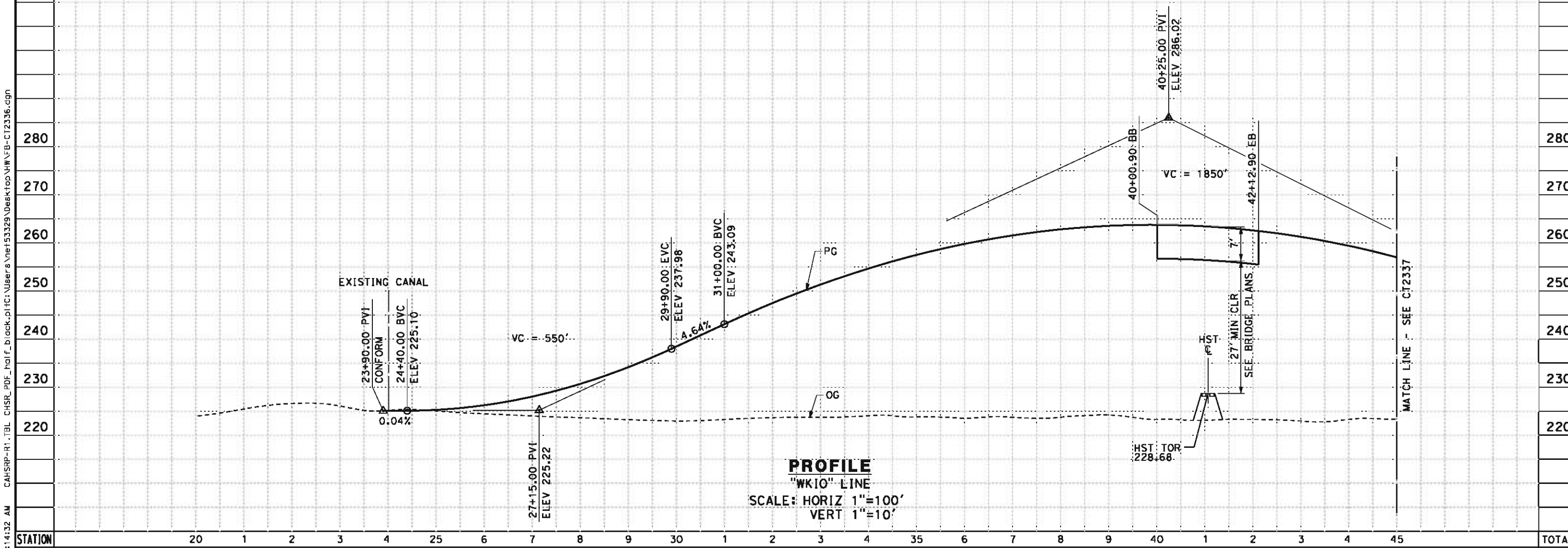





**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
GRADE SEPARATION PROFILE
HOUSTON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2335
SCALE
AS SHOWN
SHEET NO.
44 OF 51

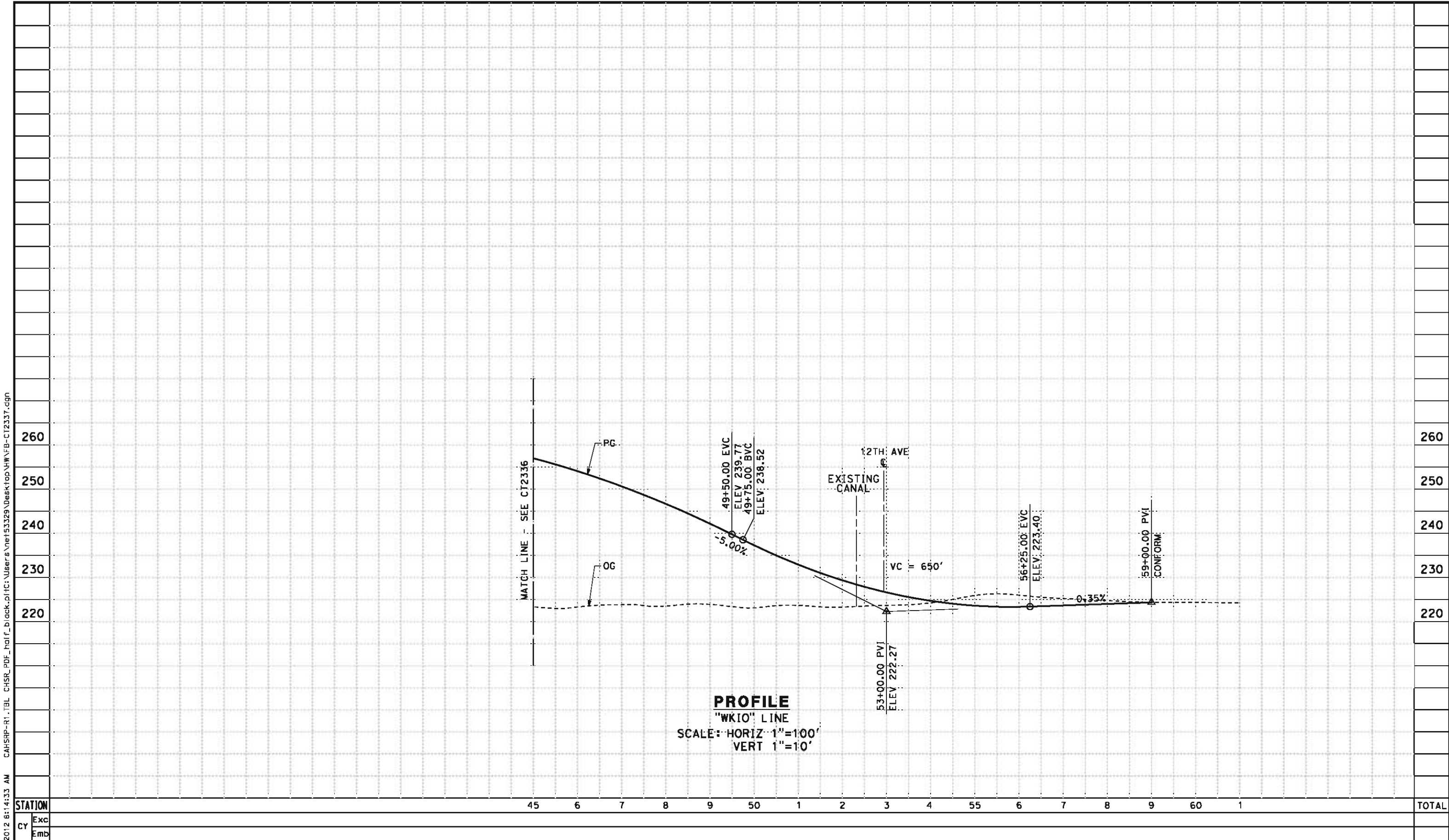
5/11/2012 8:14:32 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWN\B-CT2336.dgn

- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



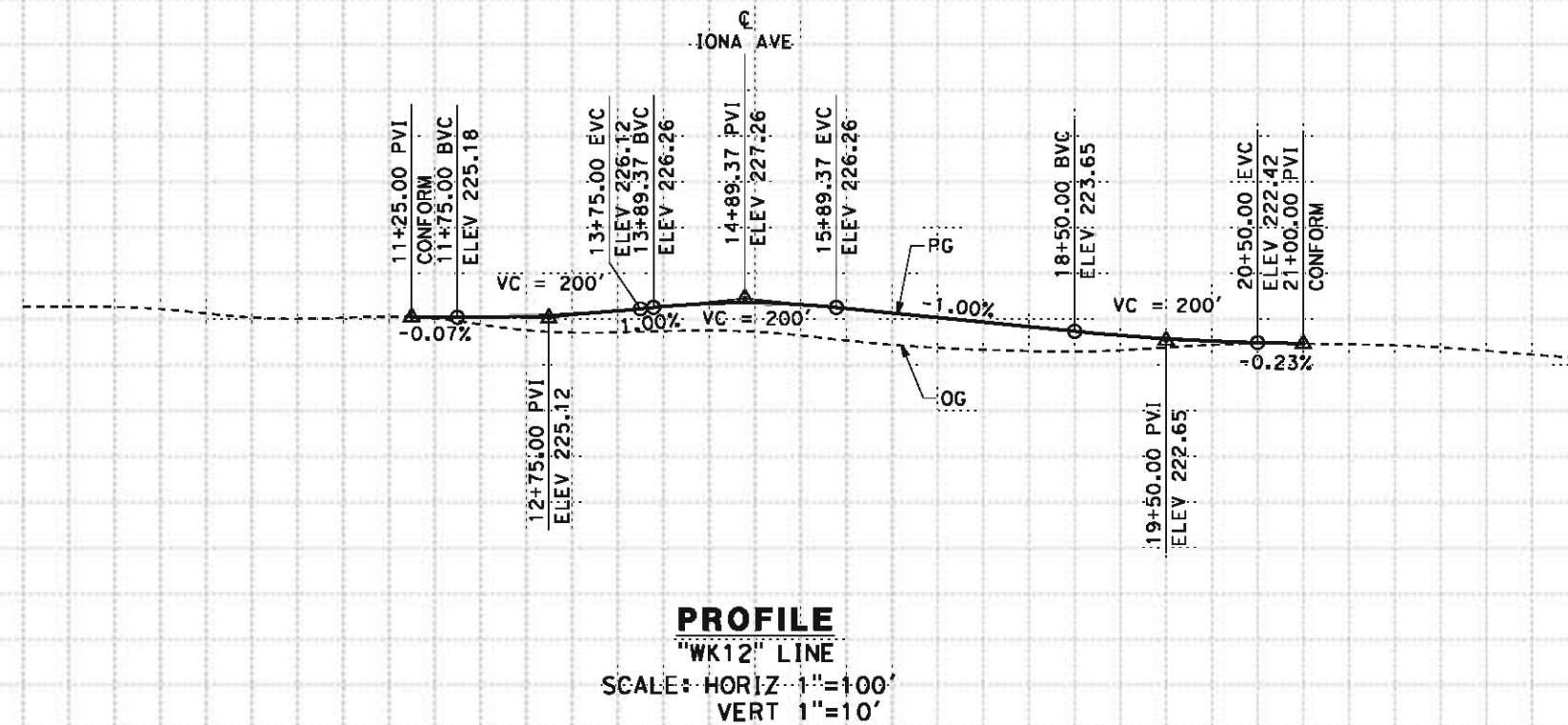
STATION						20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	TOTAL									
CY	Exc																																								
	Emb																																								
5/11/2012 8:14:39 NET53329																																									
REV	DATE	BY	CHK	APP	DESCRIPTION																																				
					DESIGNED BY R. DEASON					RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION					 															CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW GRADE SEPARATION PROFILE IONA AVE										CONTRACT NO. HSR 06-0003	
					DRAWN BY D. BARNHART																																			DRAWING NO. CT2336	
					CHECKED BY B. RAWSON																																			SCALE AS SHOWN	
					IN CHARGE O. EARLE																																			SHEET NO. 45 OF 51	
					DATE 05/18/12																																				



5/11/2012 8:14:33 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWN\B-CT2337.dgn



DESIGNED BY R. DEASON					RECORD SET 15% DESIGN SUBMISSION					NOT FOR CONSTRUCTION					CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW GRADE SEPARATION PROFILE IONA AVE					CONTRACT NO. HSR 06-0003				
DRAWN BY D. BARNHART															DRAWING NO. CT2337									
CHECKED BY B. RAWSON															SCALE AS SHOWN									
IN CHARGE O. EARLE															SHEET NO. 46 OF 51									
DATE 05/18/12																								
REV	DATE	BY	CHK	APP	DESCRIPTION																			

1. VERTICAL DESIGN SPEED = 55 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP
DTM

[illegible]

						DESIGNED BY J. NETTLETON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW GRADE SEPARATION PROFILE 12TH AVE (AT IONA AVE)	CONTRACT NO. HSR 06-0003
						DRAWN BY D. BARNHART					DRAWING NO. CT2338
						CHECKED BY B. RAWSON					SCALE AS SHOWN
						IN CHARGE Q. EARLE					SHEET NO. 47 OF 51
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12					

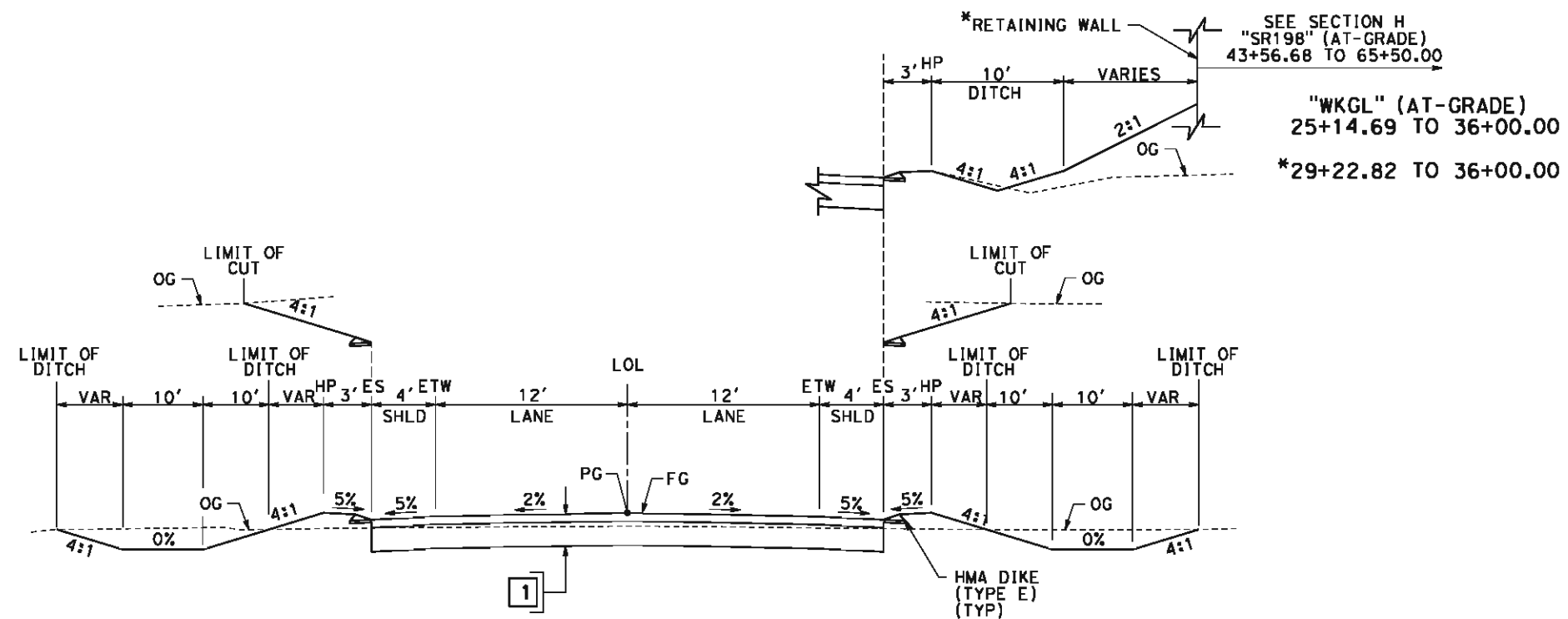
1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

TYPICAL ROADWAY (4' SHOULDER)

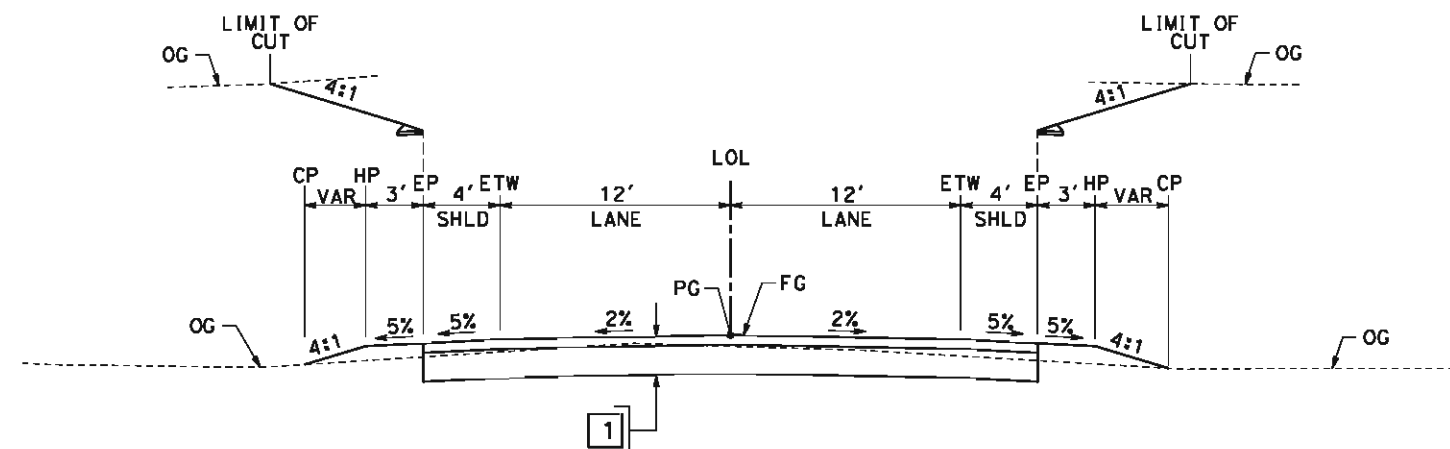
1 — [0.30' HMA (TYPE A)
1.40' CL 2 AB

2 — 0.40' HMA (TYPE A)
1.70' CL 2 AB

3 — 0.60' HMA (TYPE A)
1.80' CL 2 AB



"WFEL" 12+50.00 TO 27+45.50	"WKFL" 24+00.00 TO 38+91.86	"WKGL" (AT-GRADE) 11+50.00 TO 22+70.69	"WKHO" 25+50.00 TO 38+26.87
"WFEL" 30+86.50 TO 44+00.00	"WKFL" 41+17.86 TO 56+75.00	"WKGL" (AT-GRADE) 25+14.69 TO 36+00.00	"WKHO" 40+35.87 TO 53+50.00
"WKEX" 11+30.00 TO 28+94.00	"WKFA" 25+50.00 TO 41+54.78	"WKGL" (BELOW-GRADE) 21+75.00 TO 22+63.19	"WKIO" 24+75.00 TO 40+00.90
"WKEX" 31+06.00 TO 47+50.00	"WKFA" 43+73.78 TO 57+00.00	"WKGL" (BELOW-GRADE) 25+22.19 TO 26+00.00	"WKIO" 42+12.90 TO 52+57.36



"WFEL" 11+50.00 TO 12+50.00	"WKFL" 22+50.00 TO 24+00.00	"WKHO" 53+50.00 TO 56+00.00
"WFEL" 44+00.00 TO 45+25.00	"WKFA" 25+00.00 TO 25+50.00	"WKIO" 23+90.00 TO 24+75.00
"WFCL" 11+00.00 TO 67+25.00	"WKFA" 57+00.00 TO 57+75.00	"WKIO" 52+57.36 TO 59+00.00
"WKEX" 47+50.00 TO 51+25.00	"WKHO" 22+50.00 TO 25+50.00	"WK12" 11+25.00 TO 21+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	J. NETTLETON
DRAWN BY	D. BARNHART
CHECKED BY	B. RAWSON
IN CHARGE	Q. EARLE
DATE	05/18/12

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

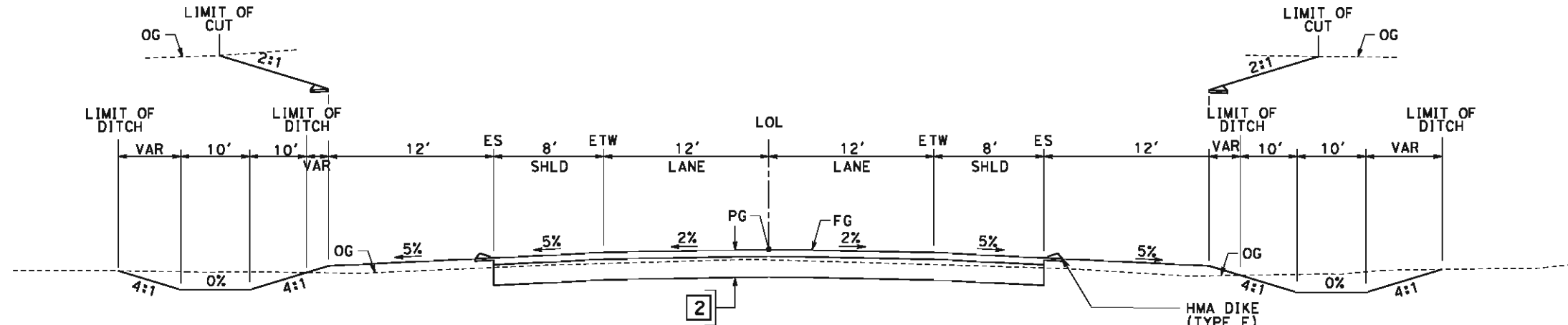


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT3330
SCALE	AS SHOWN
SHEET NO.	48 OF 51

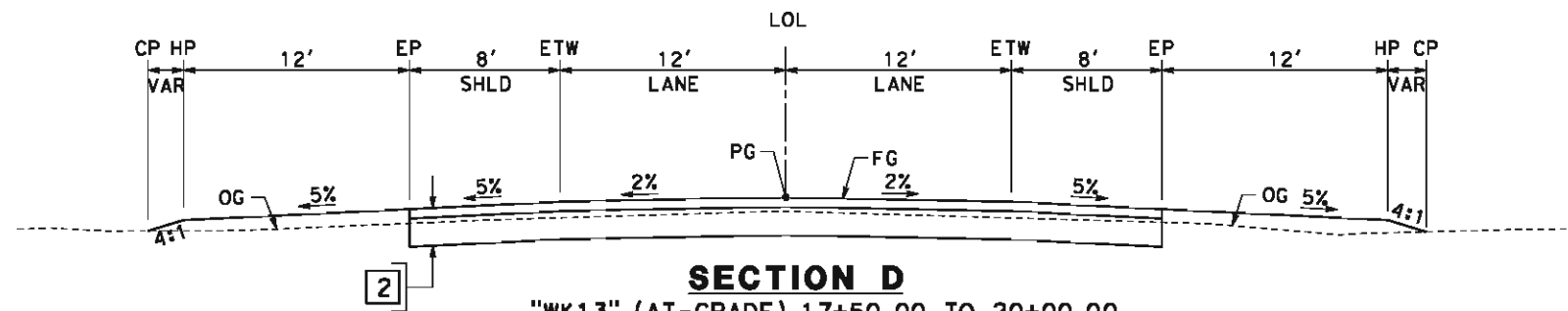
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NET53329



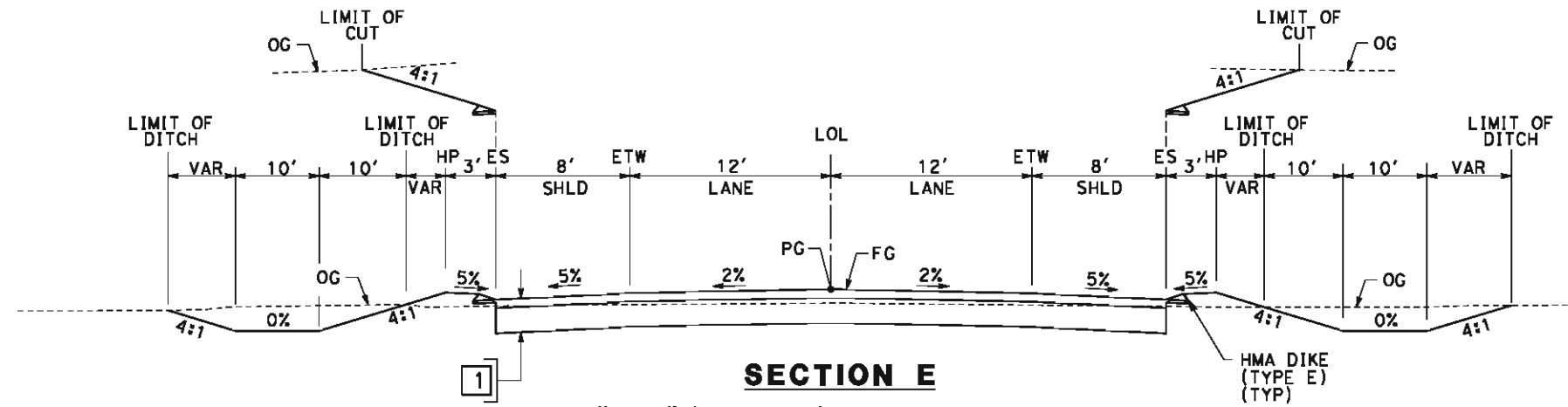
SECTION C

"WK13" (AT-GRADE) 20+00.00 TO 46+00.00 "WK13" (BELOW GRADE) 15+25.00 TO 34+65.95
"WKLC" (AT-GRADE) 24+75.00 TO 47+50.00 "WK13" (BELOW GRADE) 36+43.45 TO 45+75.00



SECTION D

"WK13" (AT-GRADE) 17+50.00 TO 20+00.00
"WKLC" (BELOW GRADE) 34+40.00 TO 37+62.86
"WKLC" (BELOW GRADE) 38+92.86 TO 45+50.00



SECTION E

"WKHA" (AT-GRADE) 30+00.00 TO 42+70.02
"WKHA" (AT-GRADE) 44+76.02 TO 54+60.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3331
SCALE
AS SHOWN
SHEET NO.
49 OF 51

5/11/2012 8:14:35 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\HWNFB-CT3332.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. NETTLETON
DRAWN BY D. BARNHART
CHECKED BY B. RAWSON
IN CHARGE O. EARLE
DATE 05/18/12

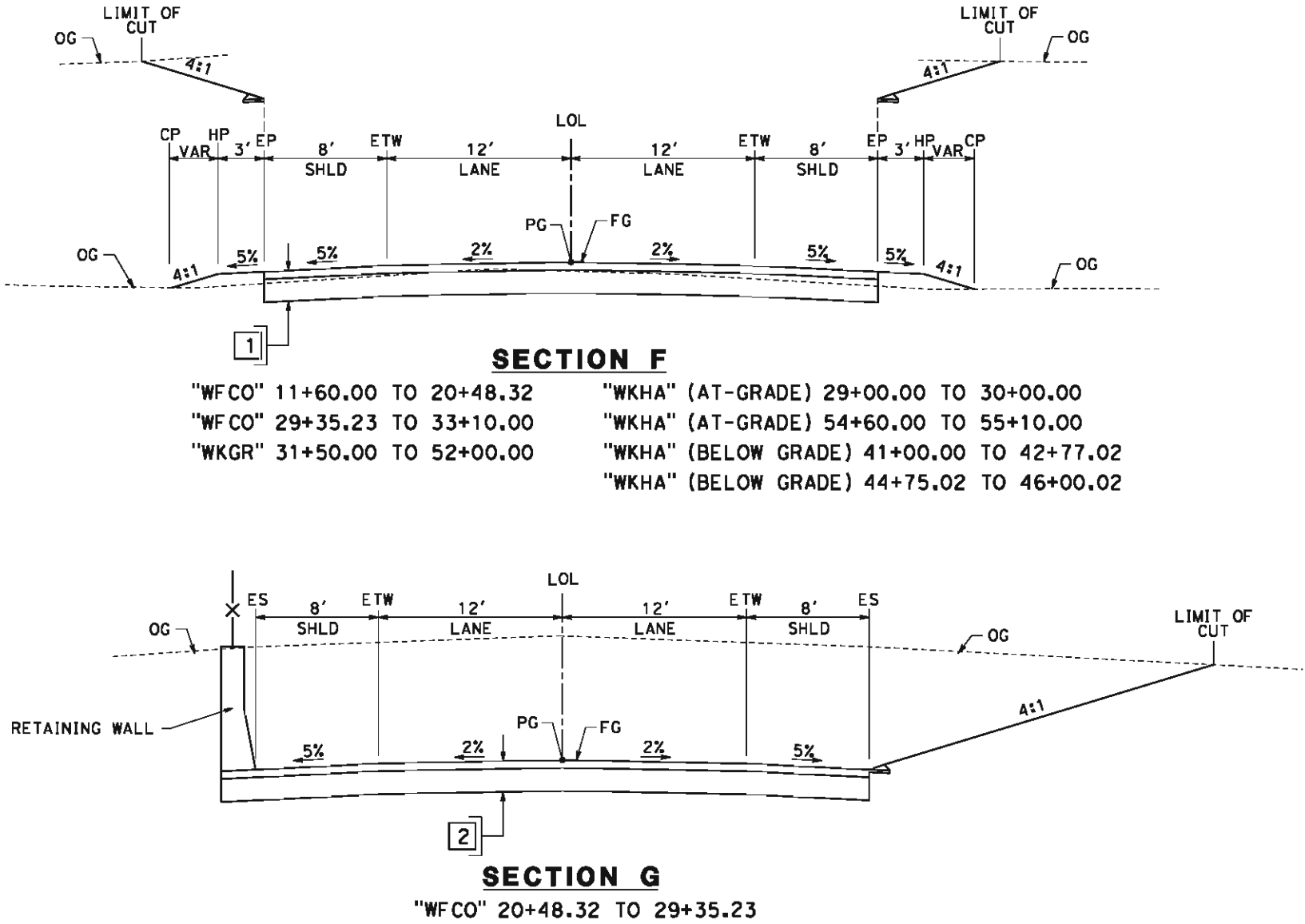
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3332
SCALE AS SHOWN
SHEET NO. 50 OF 51





"EBON" 10+00.00 TO 22+78.97



"WBOFF" 5+70.27 TO 15+29.78

"SR198" (AT-GRADE)
47+75.00 TO 62+45.00

RETAINING WALL

25+14.69 TO 36+00.00



"SR198" (AT-GRADE) 25+50.00 TO 41+09.68
 "SR198" (AT-GRADE) 43+56.68 TO 65+50.00
 "SR198" (BELOW GRADE) 40+60.00 TO 41+12.16
 "SR198" (BELOW GRADE) 43+68.91 TO 44+20.00

REV	DATE	BY	CHK	APP
-----	------	----	-----	-----

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY B. RAWSON
IN CHARGE Q. EARLE
DATE 05/18/

**RECORD SET 182
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT3333
SCALE	AS SHOWN
SHEET NO.	51 OF 51

5/11/2012 8:03:29 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CB0220.dgn NET53329



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
S 10TH AVE	2290+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. NETTLETON
DRAWN BY V. ORTEGA
CHECKED BY B. RAWSON
IN CHARGE O. EARLE
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

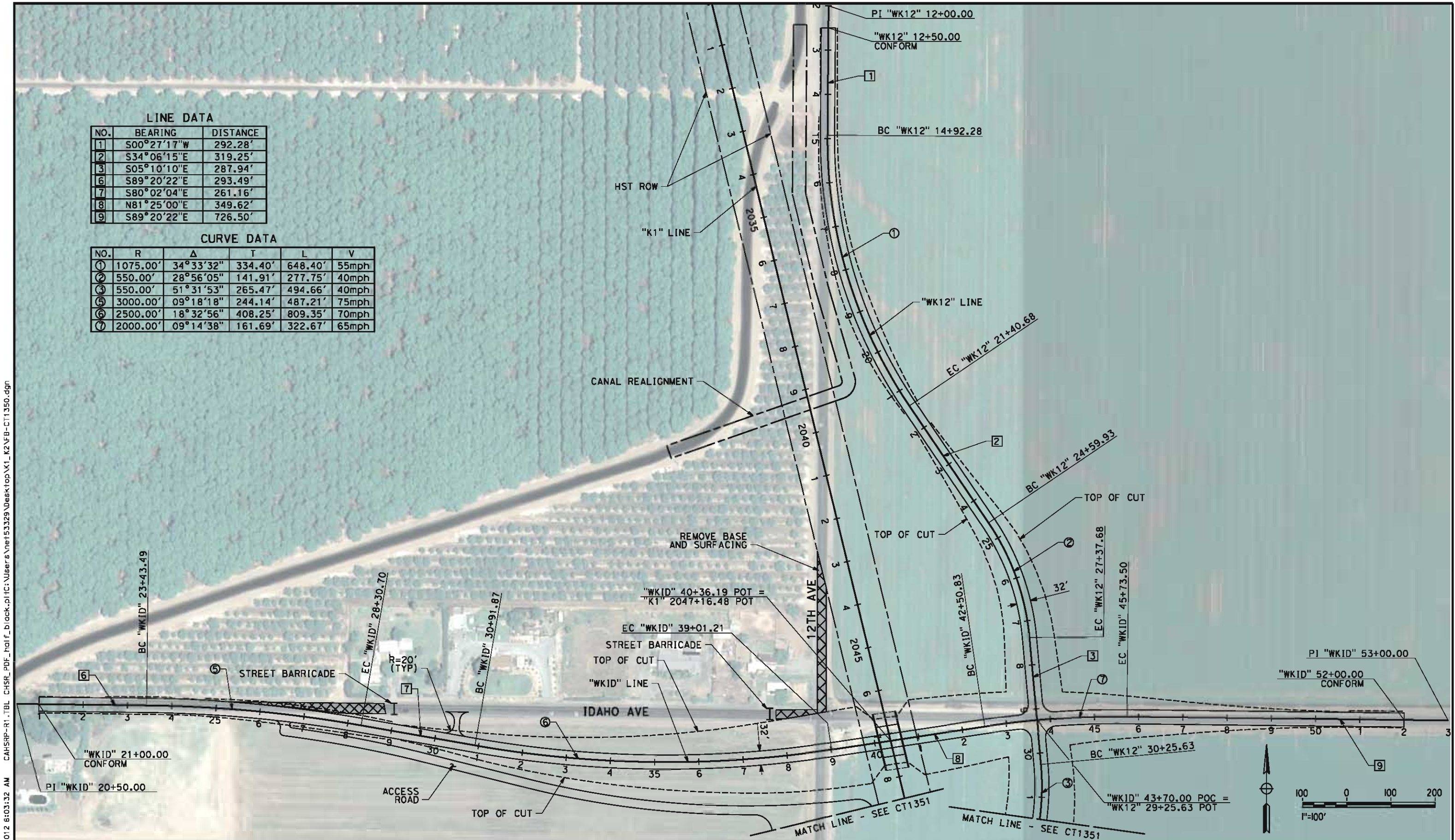
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**

KAWEAH SUBSECTION
ALIGNMENT K1
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0220
SCALE AS SHOWN
SHEET NO. 1 OF 19

NO.	BEARING	DISTANCE
1	S00°27'17"W	292.28'
2	S34°06'15"E	319.25'
3	S05°10'10"E	287.94'
6	S89°20'22"E	293.49'
7	S80°02'04"E	261.16'
8	N81°25'00"E	349.62'
9	S89°20'22"E	726.50'

NO.	R	Δ	T	L	V
①	1075.00'	24° 33' 32"	334.40'	648.40'	55mph
②	550.00'	38° 56' 05"	141.91'	277.75'	40mph
③	550.00'	51° 31' 53"	265.47'	494.66'	40mph
⑤	3000.00'	09° 18' 18"	244.14'	487.21'	75mph
⑥	2500.00'	18° 32' 56"	408.25'	809.35'	70mph
⑦	2000.00'	09° 14' 38"	161.69'	322.67'	65mph



REV	DATE	BY	CHK	APP	DESCRIPTION	

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY B. RAWSON
IN CHARGE Q. EARLE
DATE 05/18/12

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



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION LAYOUT
12TH AVE / IDAHO AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1350
SCALE	AS SHOWN
SHEET NO.	2 OF 19

5/11/2012 8:03:34 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT1351.dgn

NET53329



LINE DATA		
NO.	BEARING	DISTANCE
4	S46°21'42"W	224.82'
5	S00°27'17"W	614.22'

CURVE DATA					
NO.	R	Δ	T	L	V
3	550.00'	51°31'53"	265.47'	494.66'	40mph
4	550.00'	45°54'25"	232.93'	440.68'	40mph

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

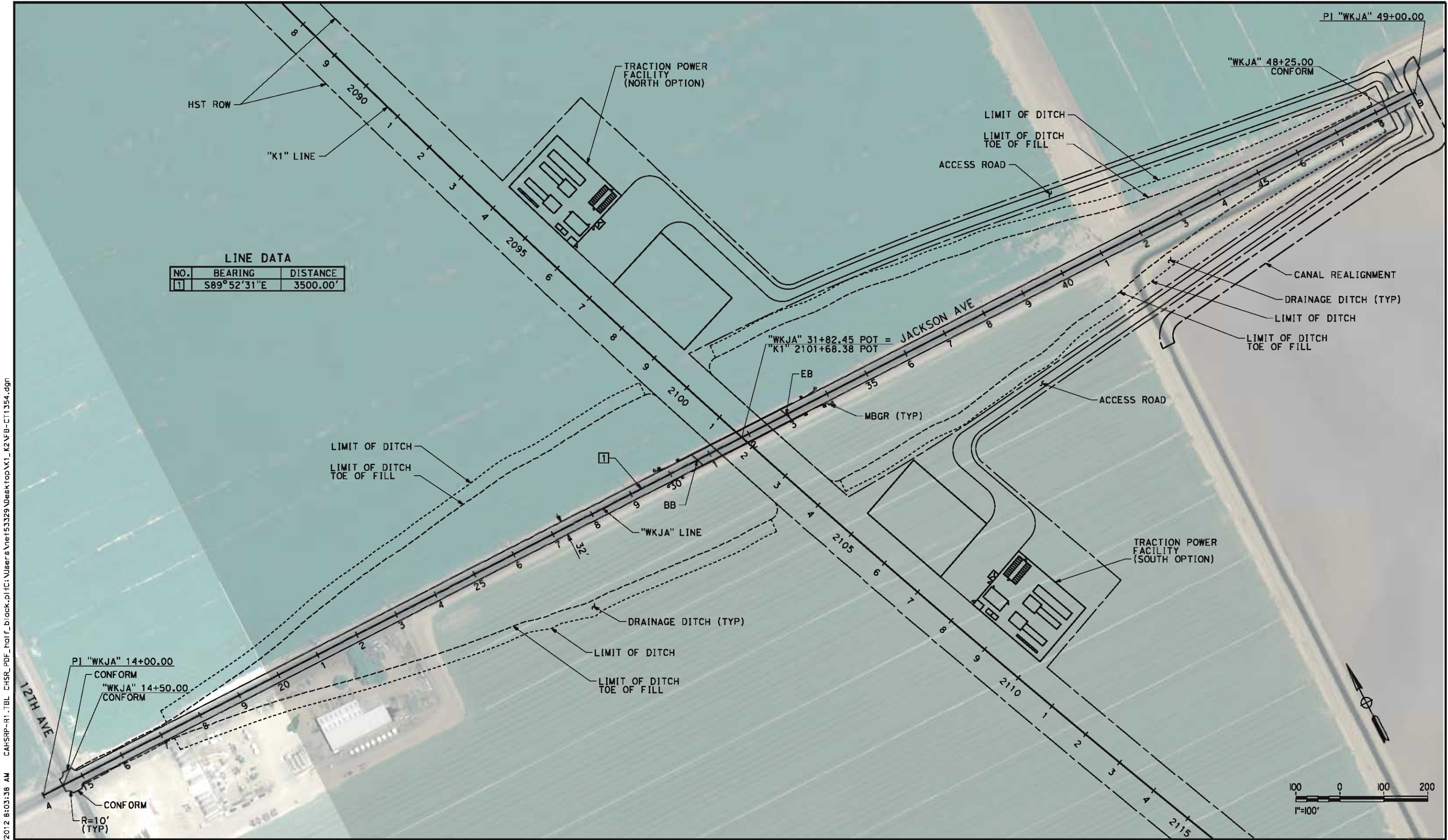
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION LAYOUT
12TH AVE / IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1351
SCALE
AS SHOWN
SHEET NO.
3 OF 19

5/11/2012 8:03:38 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT1354.dgn



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°52'31"E	3500.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. NETTLETON
DRAWN BY P. BARBER
CHECKED BY B. RAWSON
IN CHARGE O. EARLE
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



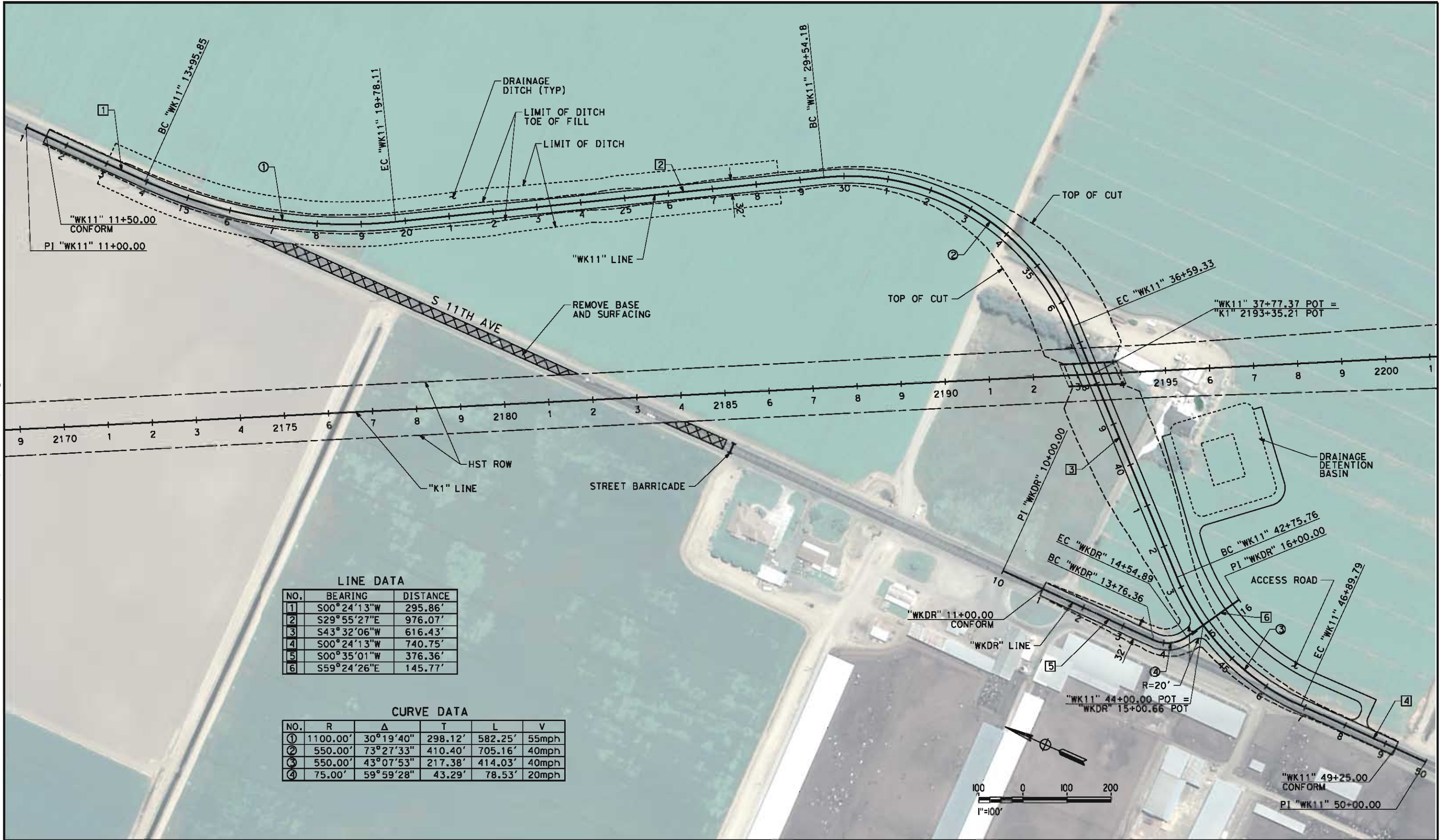
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**

KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION LAYOUT
JACKSON AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1354
SCALE AS SHOWN
SHEET NO. 4 OF 19

5/11/2012 8:03:41 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT1356.dgn

NET53329



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON

DRAWN BY
P. BARBER

CHECKED BY
B. RAWSON

IN CHARGE
O. EARLE

DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE

KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION LAYOUT
S 11TH AVE

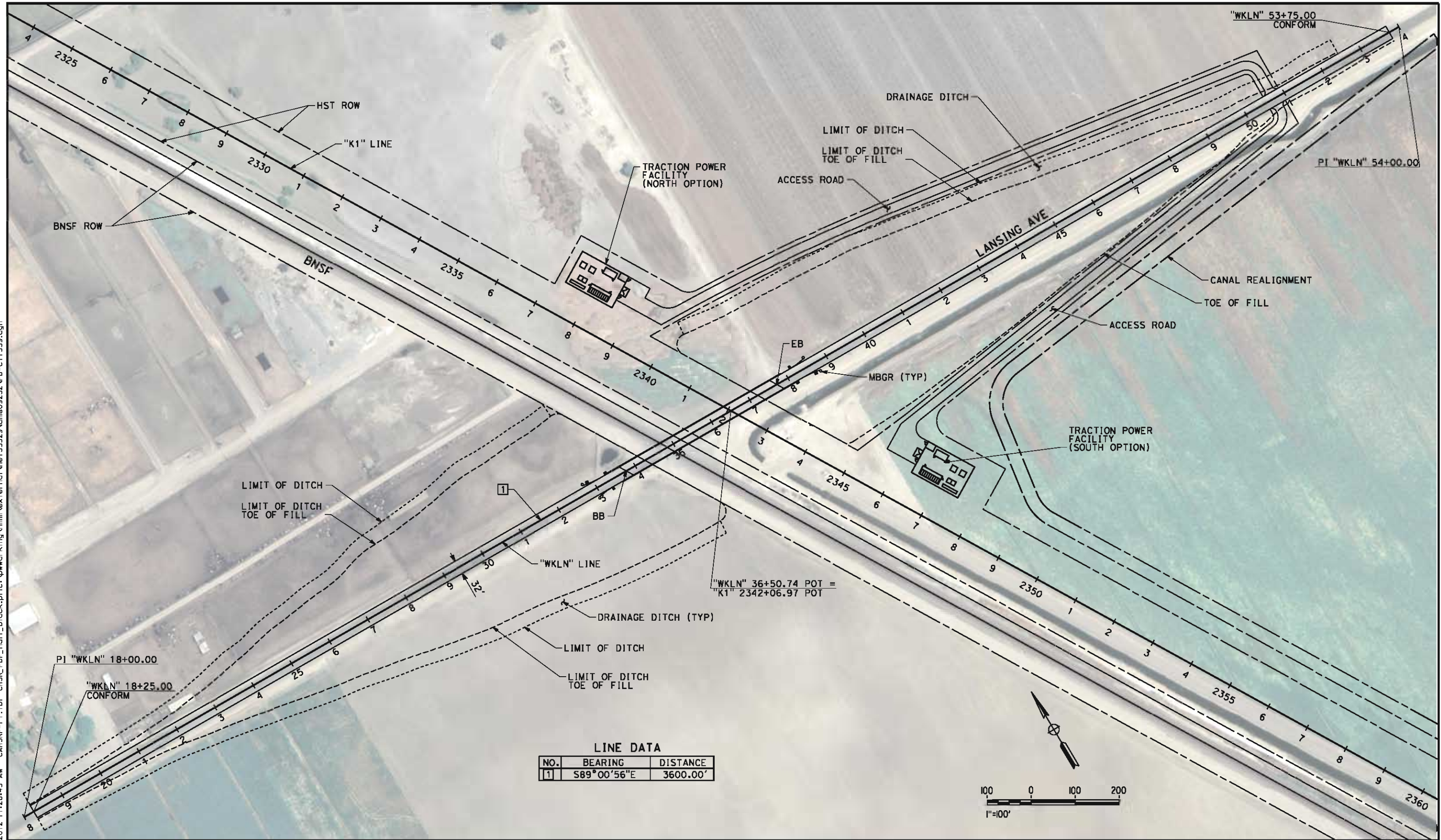
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1356

SCALE
AS SHOWN

SHEET NO.
5 OF 19

5/15/2012 11:28:43 AM CAHSR-r1.tbl CHSR_PDF_half_black.plt \\pwworking\hmm\external\nef51329\dms09252\FB-CT1359.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK

DRAWN BY
P. BARBER

CHECKED BY
B. RAWSON

IN CHARGE
O. EARLE

DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION LAYOUT
LANSING AVE

CONTRACT NO.
HSR 06-0003

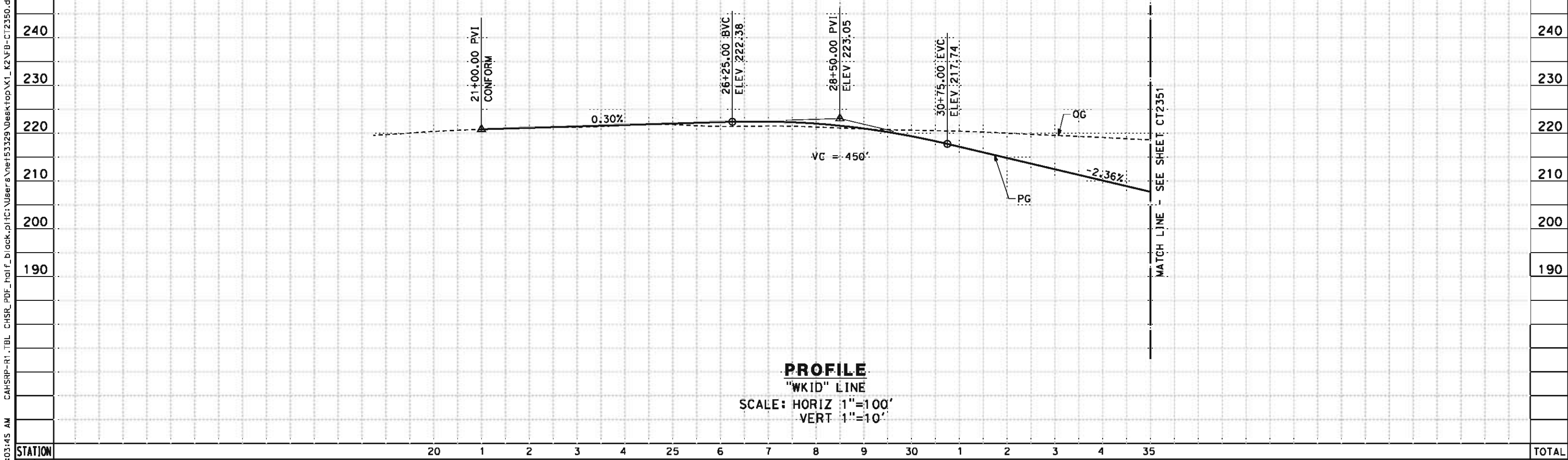
DRAWING NO.
CT1359



SCALE
AS SHOWN

SHEET NO.
6 OF 19

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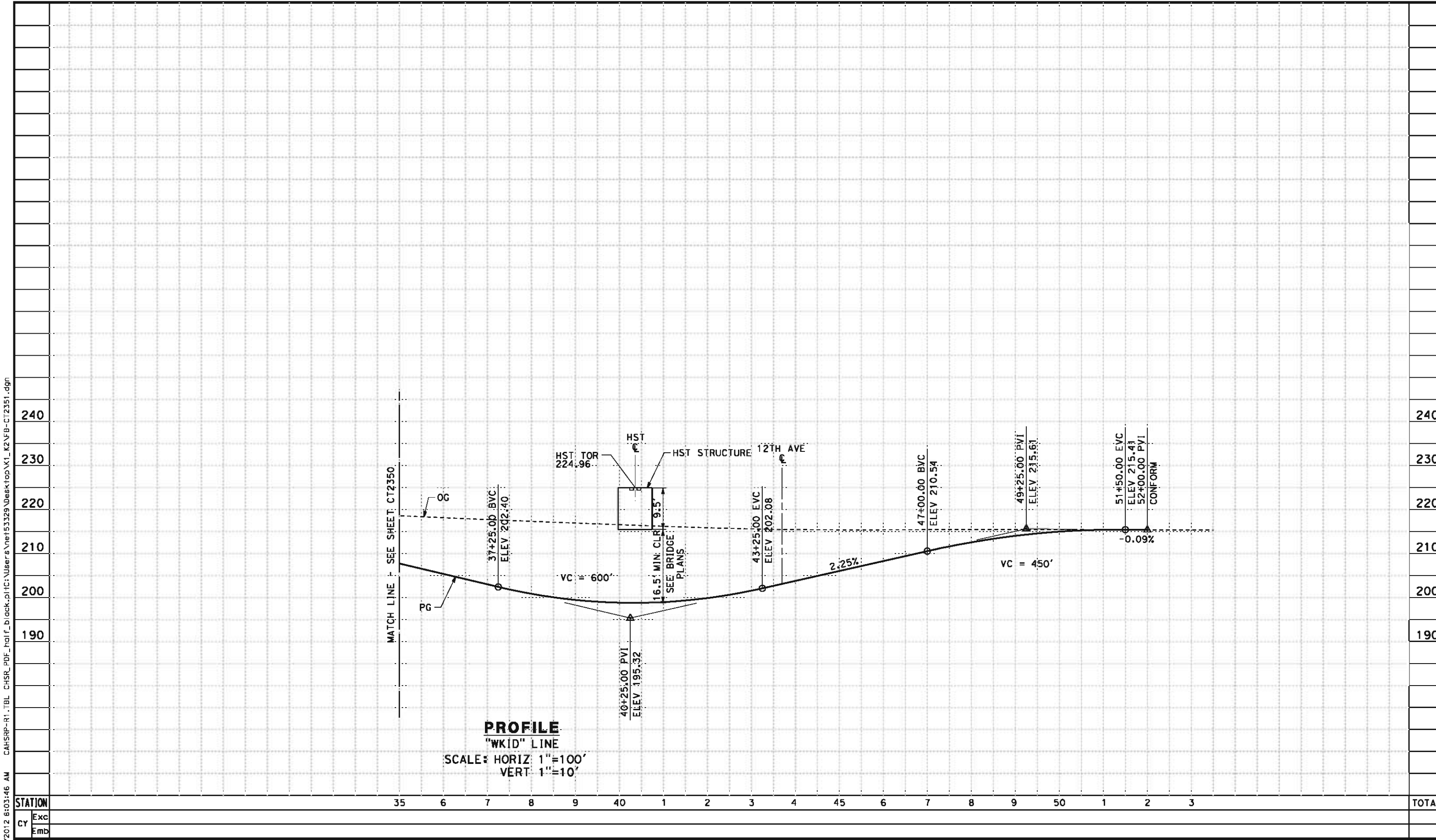
- NOTES:
- 1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5'
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION						20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	TOTAL
CY	Exc																					
	Emb																					
5/11/2012 8:03:29 NET153329							DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE KAWEAH SUBSECTION ALIGNMENT K1 GRADE SEPARATION PROFILE IDAHO AVE	CONTRACT NO. HSR 06-0003										
							DRAWING NO. CT2350															
							SCALE AS SHOWN															
							SHEET NO. 7 OF 19															
	REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12															

5/11/2012 8:03:46 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2351.dgn

NET53329



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

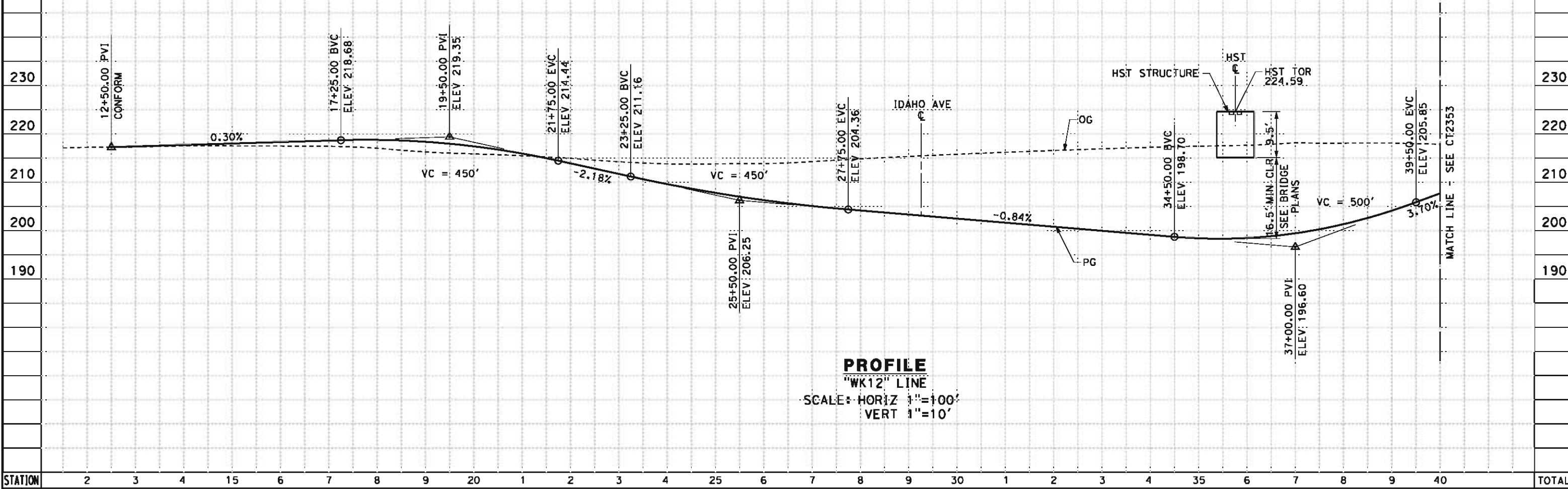


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION PROFILE
IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2351
SCALE
AS SHOWN
SHEET NO.
8 OF 19

5/11/2012 8:03:46 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2352.dgn

- NOTES:
- 1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5'
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	TOTAL
CY	Exc																														
	Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION PROFILE
12TH AVE (AT IDAHO AVE)

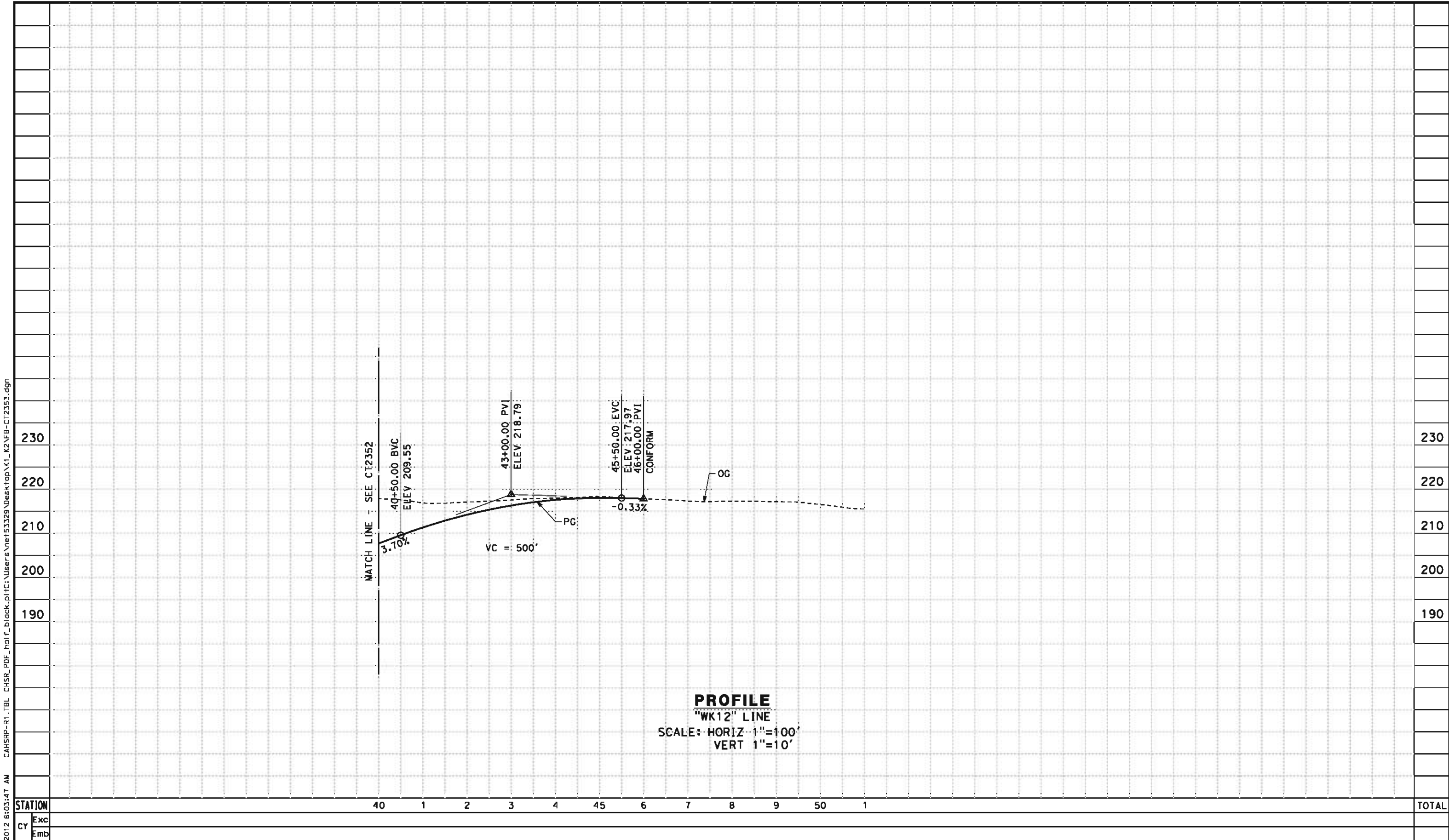
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2352

SCALE
AS SHOWN

SHEET NO.
9 OF 19

5/11/2012 8:03:47 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2353.dgn



PROFILE
"WK12" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		40	1	2	3	4	45	6	7	8	9	50	1	TOTAL
CY	Exc													
	Emb													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

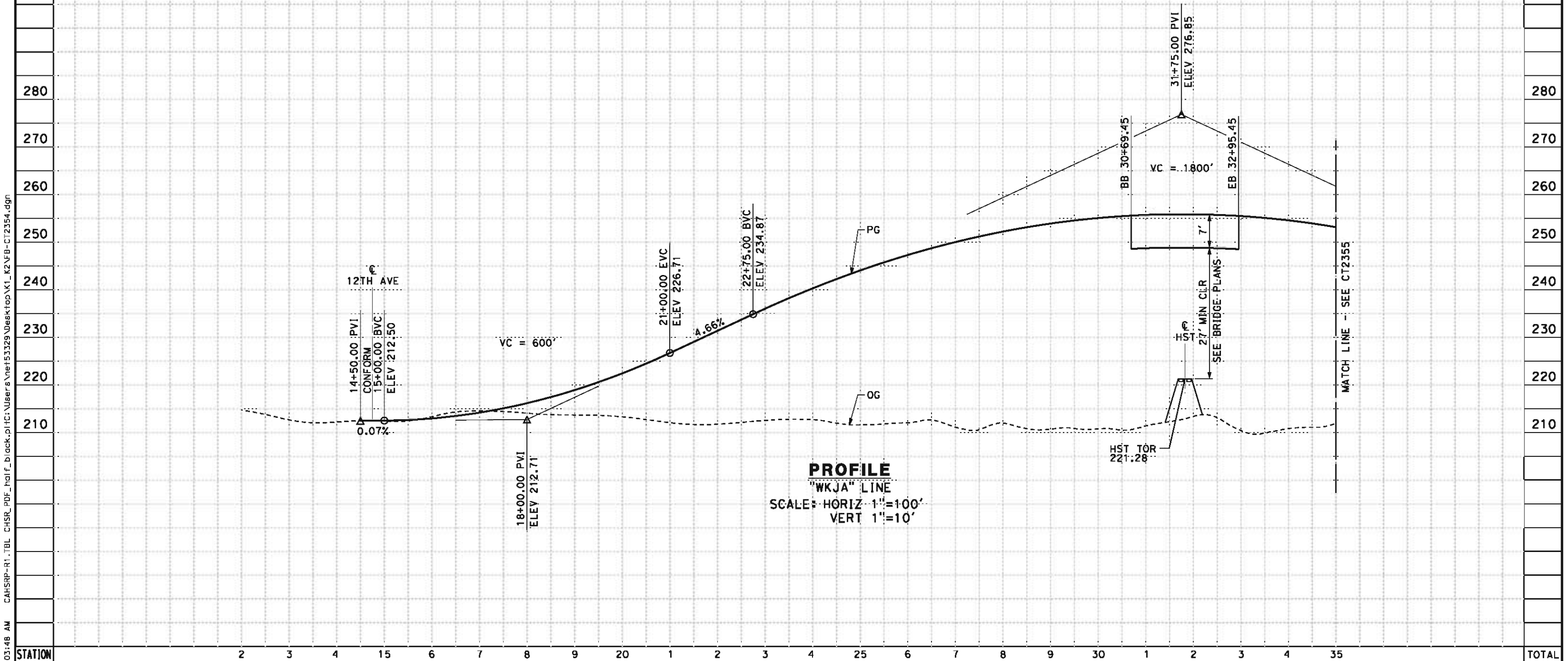
**NOT FOR
CONSTRUCTION**





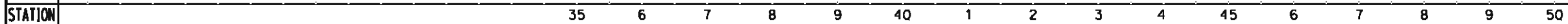
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION PROFILE
12TH AVE (AT IDAHO AVE)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2353
SCALE
AS SHOWN
SHEET NO.
10 OF 19

1. MIN VERTICAL CLEARANCE OVER HST IS 27'
FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP
DTM



5/11/2012	CY	Exc										
		Emb										
NET153329							DESIGNED BY J. NETTLETON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE KAWEAH SUBSECTION ALIGNMENT K1 GRADE SEPARATION PROFILE JACKSON AVE	CONTRACT NO. HSR 06-0003
							DRAWN BY D. BARNHART					DRAWING NO. CT2354
							CHECKED BY B. RAWSON					SCALE AS SHOWN
							IN CHARGE Q. EARLE					SHEET NO. 11 OF 19
							DATE 05/18/12					
	REV	DATE	BY	CHK	APP	DESCRIPTION						



REV	DA

REV	DATE	BY	CHK	APP	DESCRIPTION
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DATE 05/18/12

**NOT FOR
CONSTRUCTION**



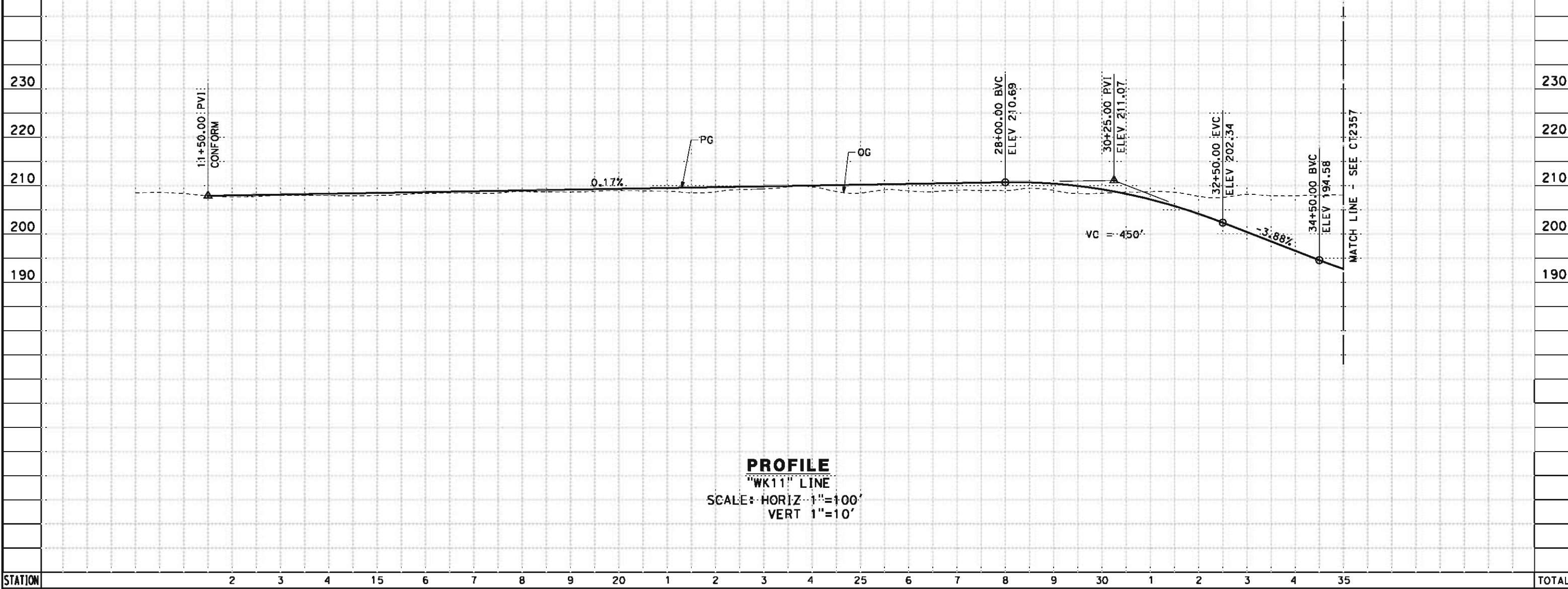
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

ALIGNMENT K1
GRADE SEPARATION PROFILE
JACKSON AVE

12 OF 19

5/11/2012 8:03:49 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2356.dgn NET53329

- NOTES:
- 1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5'
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	TOTAL
CY	Exc																									
	Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



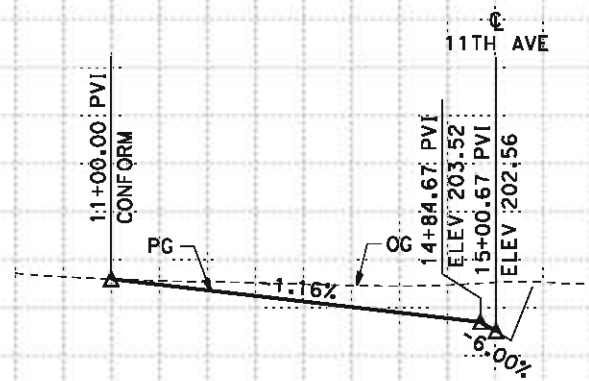
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION PROFILE
11TH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2356
SCALE
AS SHOWN
SHEET NO.
13 OF 19

5/11/2012 8:03:50 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2358.dgn NET53329

- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

230
220
210
200
190



PROFILE
"WKDR" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

230
220
210
200
190

STATION		10	1	2	3	4	15	6	TOTAL
CY	Exc								
	Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

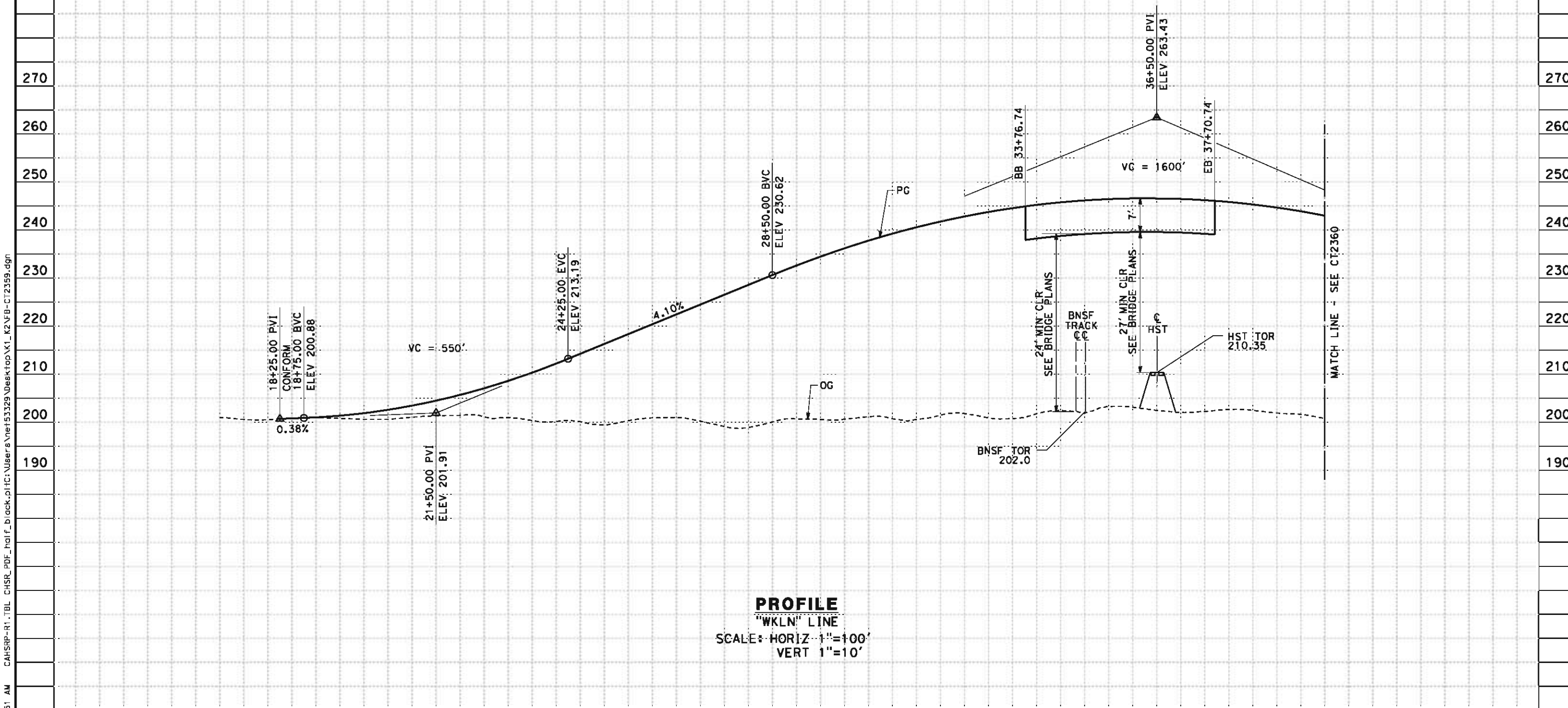


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION PROFILE
DRIVEWAY (AT 11TH AVE)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2358
SCALE
AS SHOWN
SHEET NO.
15 OF 19

5/11/2012 8:03:51 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2359.dgn

- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 55 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 4. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' FROM TOP OF RAIL



PROFILE
"WKLN" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	TOTAL
CY	Exc																									
	Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION PROFILE
LANSING AVE

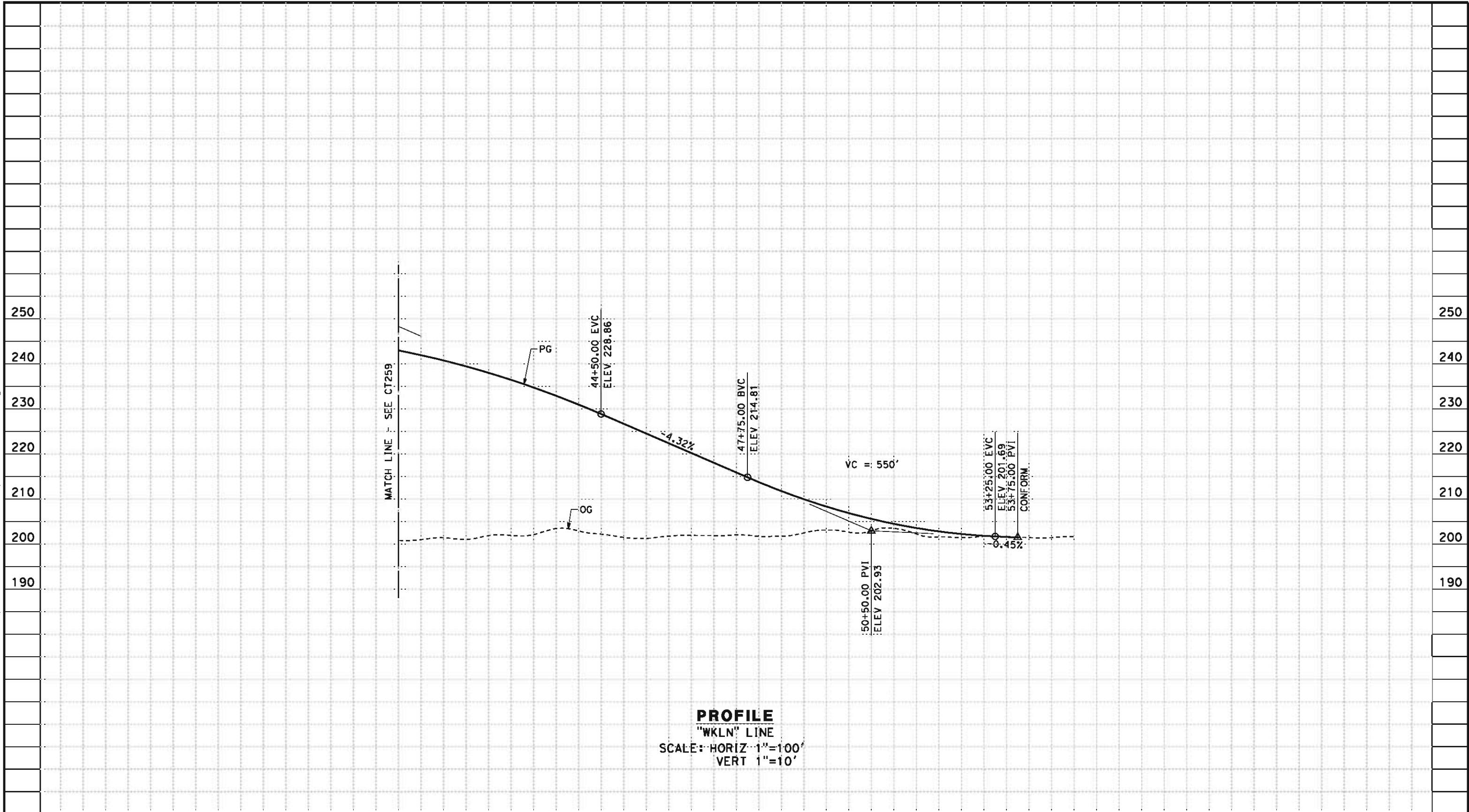
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2359

SCALE
AS SHOWN

SHEET NO.
16 OF 19

5/11/2012 8:03:51 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2360.dgn NET53329



STATION		40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	TOTAL
CY	Exc																	
	Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

KAWEAH SUBSECTION
ALIGNMENT K1
GRADE SEPARATION PROFILE
LANSING AVE

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2360

SCALE
AS SHOWN

SHEET NO.
17 OF 19

- NOTES:
- 1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - 2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

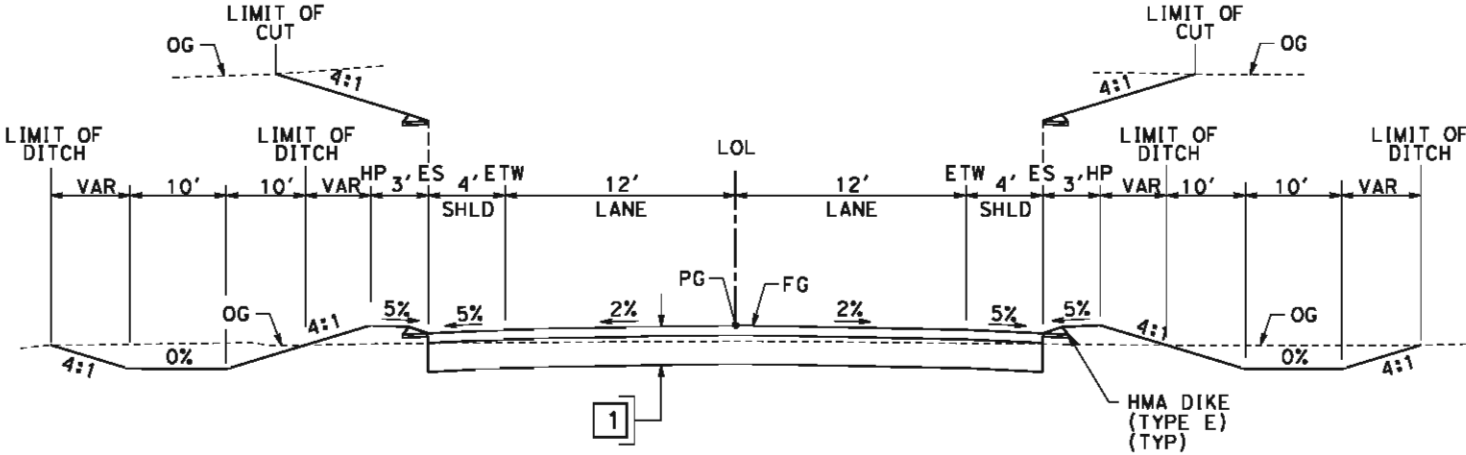
STRUCTURAL SECTIONS

TYPICAL ROADWAY (4' SHOULDER)

1 0.30' HMA (TYPE A)
1.40' CL 2' AB

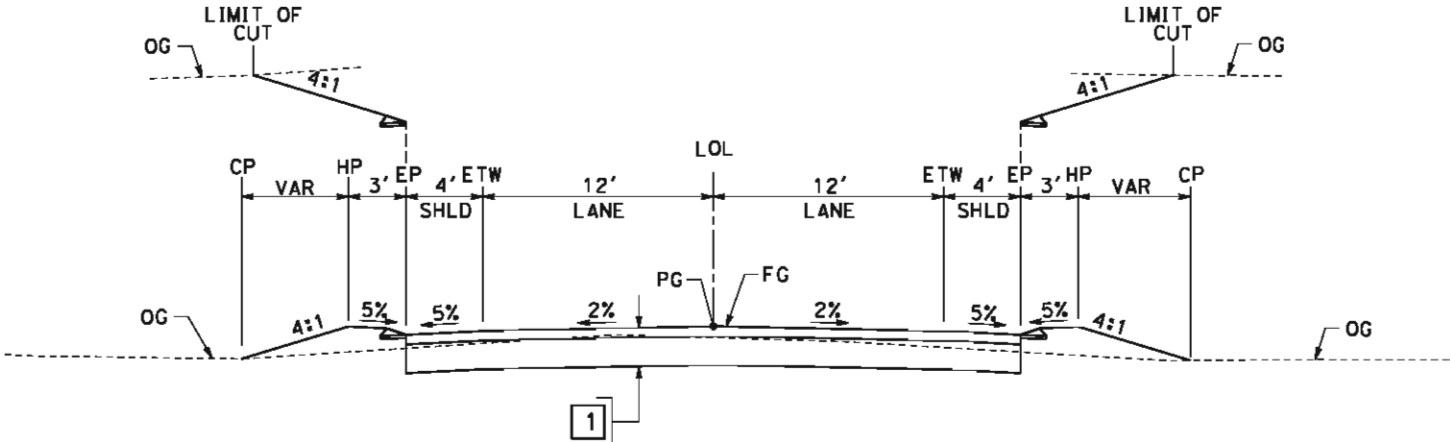
TYPICAL ROADWAY (8' SHOULDER)

2 0.40' HMA (TYPE A)
1.70' CL 2' AB



SECTION A

"WKJA" 17+25.00 TO 30+69.45
"WKJA" 32+95.45 TO 48+00.00
"WK11" 13+00.00 TO 28+50.00
"WKLN" 18+25.00 TO 33+76.74



SECTION B

"WKID" 21+00.00 TO 52+00.00
"WK12" 12+50.00 TO 46+00.00
"WKJA" 14+50.00 TO 17+25.00
"WKJA" 48+00.00 TO 48+25.00
"WK11" 11+50.00 TO 13+00.00
"WK11" 28+50.00 TO 49+25.00
"WKDR" 11+00.00 TO 14+84.66
"WKLN" 52+50.00 TO 53+75.00

5/11/2012 8:03:52 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT3340.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
Q. EARLE
DATE
05/18/12

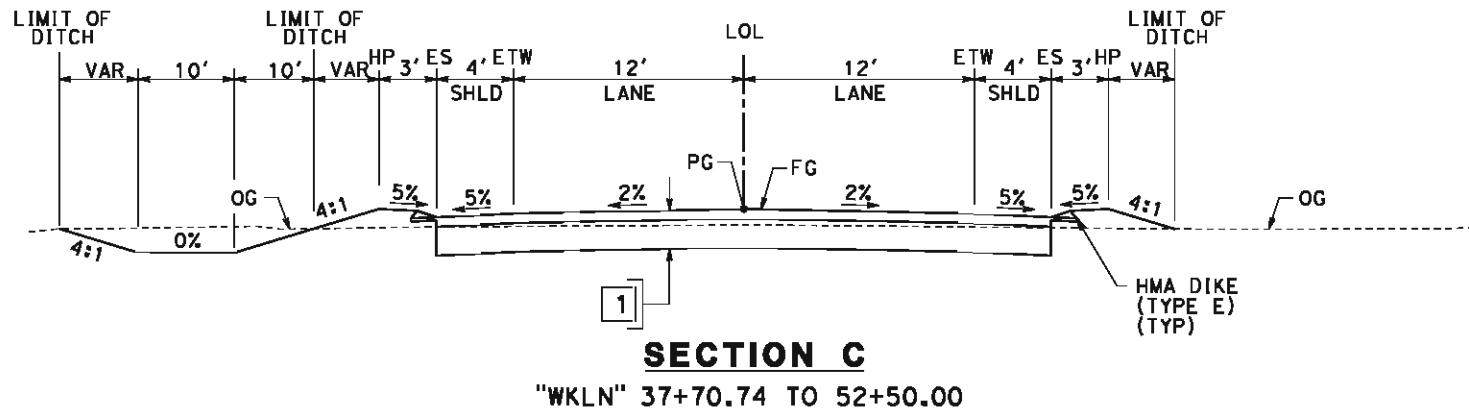
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWEAH SUBSECTION
ALIGNMENT K1
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3340
SCALE AS SHOWN
SHEET NO. 18 OF 19

NET151329 5/11/2012 8:03:53 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net151329\Desktop\K1_K2\FB-CT3341.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

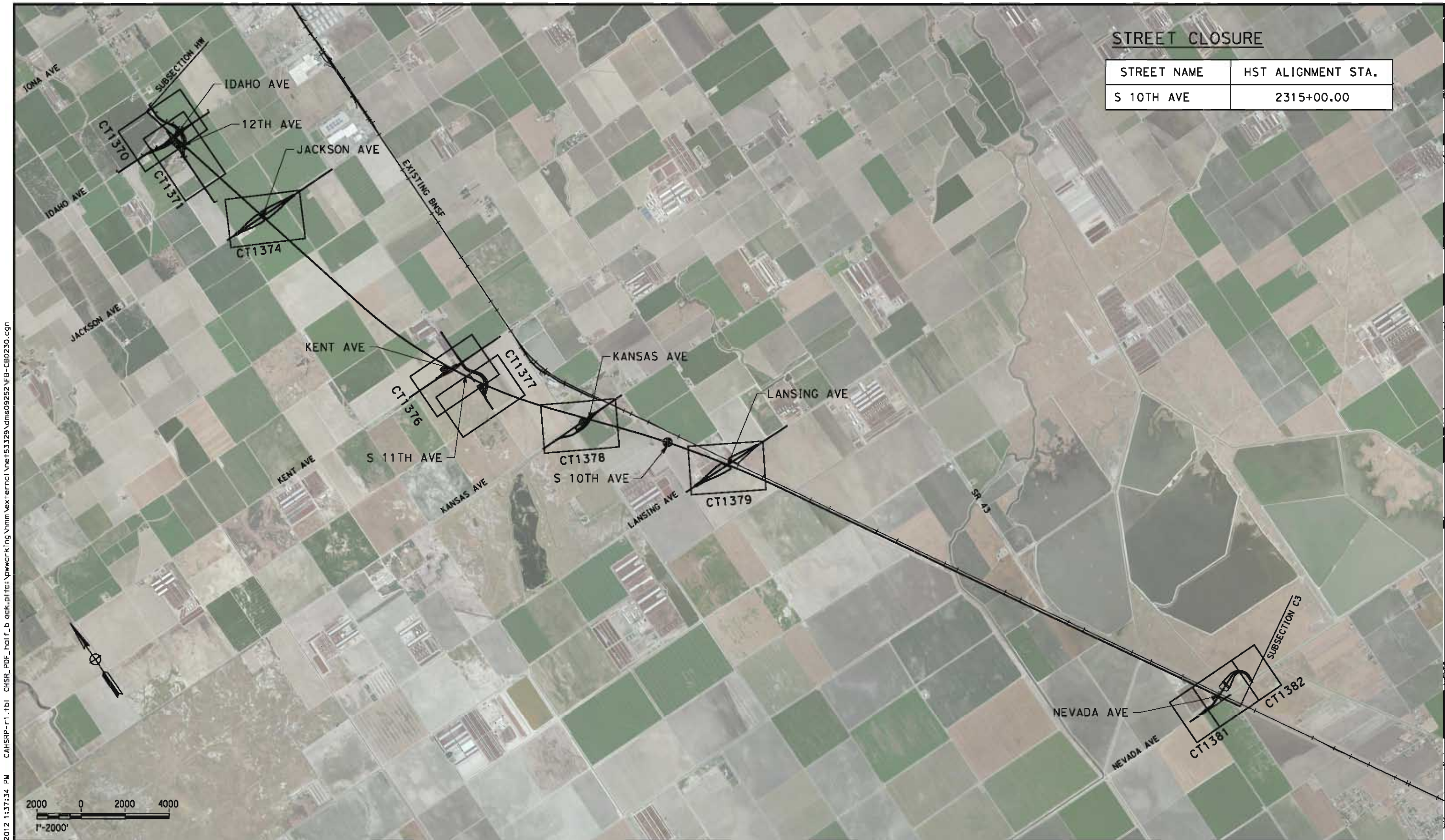
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K1
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3341
SCALE
AS SHOWN
SHEET NO.
19 OF 19

5/14/2012 1:37:34 PM CAHSR-r1.tbl CHSR_PDF_half_black.plt p:\working\hmm\external\net151329\dms09252\FB-CB0230.dgn



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
S 10TH AVE	2315+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

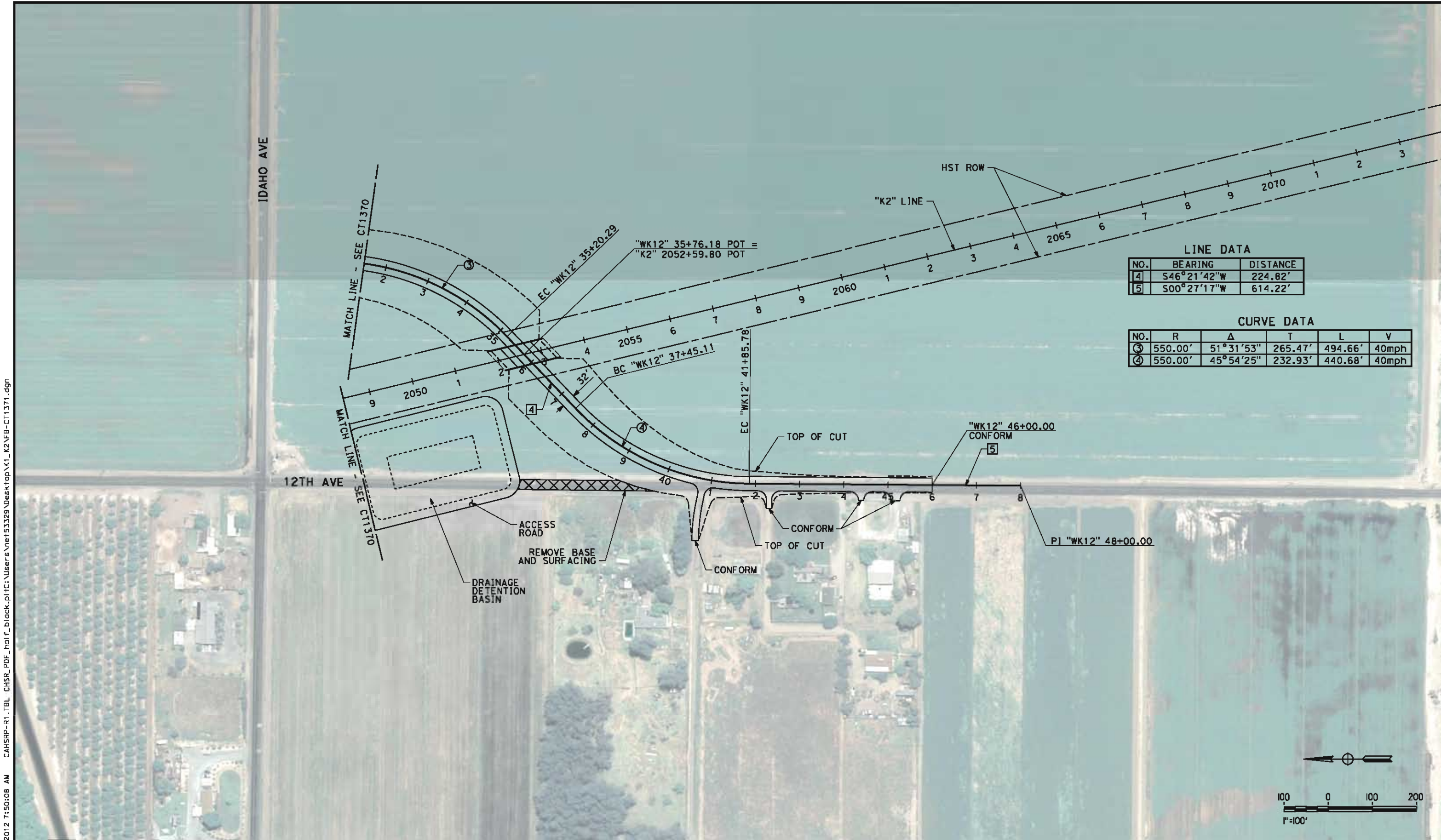


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K2
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0230
SCALE
AS SHOWN
SHEET NO.
1 OF 26

5/11/2012 7:50:08 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT1371.dgn

NET53329



LINE DATA		
NO.	BEARING	DISTANCE
4	S46°21'42"W	224.82'
5	S00°27'17"W	614.22'

CURVE DATA					
NO.	R	Δ	T	L	V
3	550.00'	51°31'53"	265.47'	494.66'	40mph
4	550.00'	45°54'25"	232.93'	440.68'	40mph

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

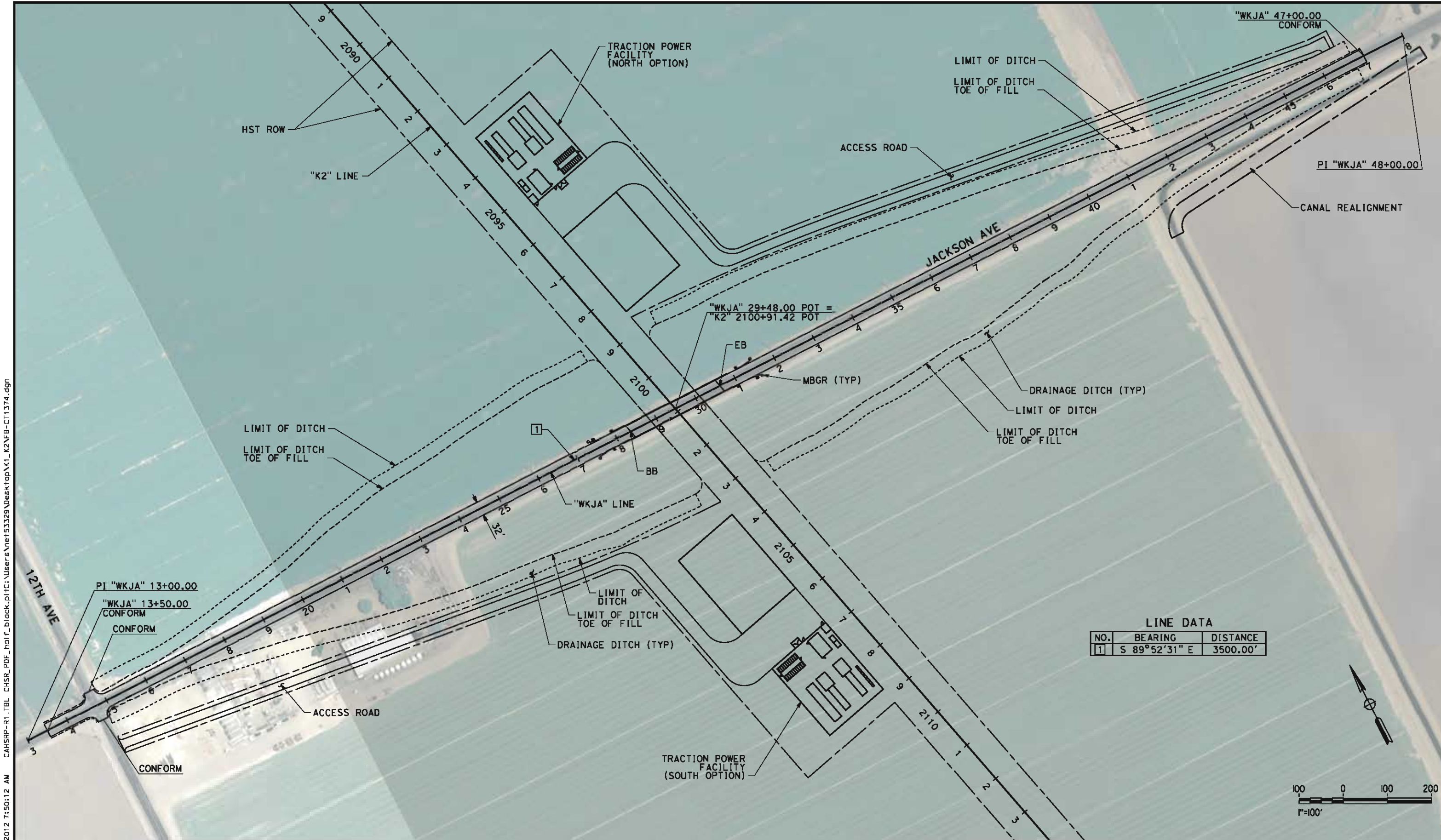


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION LAYOUT
12TH AVE / IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1371
SCALE
AS SHOWN
SHEET NO.
3 OF 26

5/11/2012 7:50:12 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT1374.dgn

NET53329



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

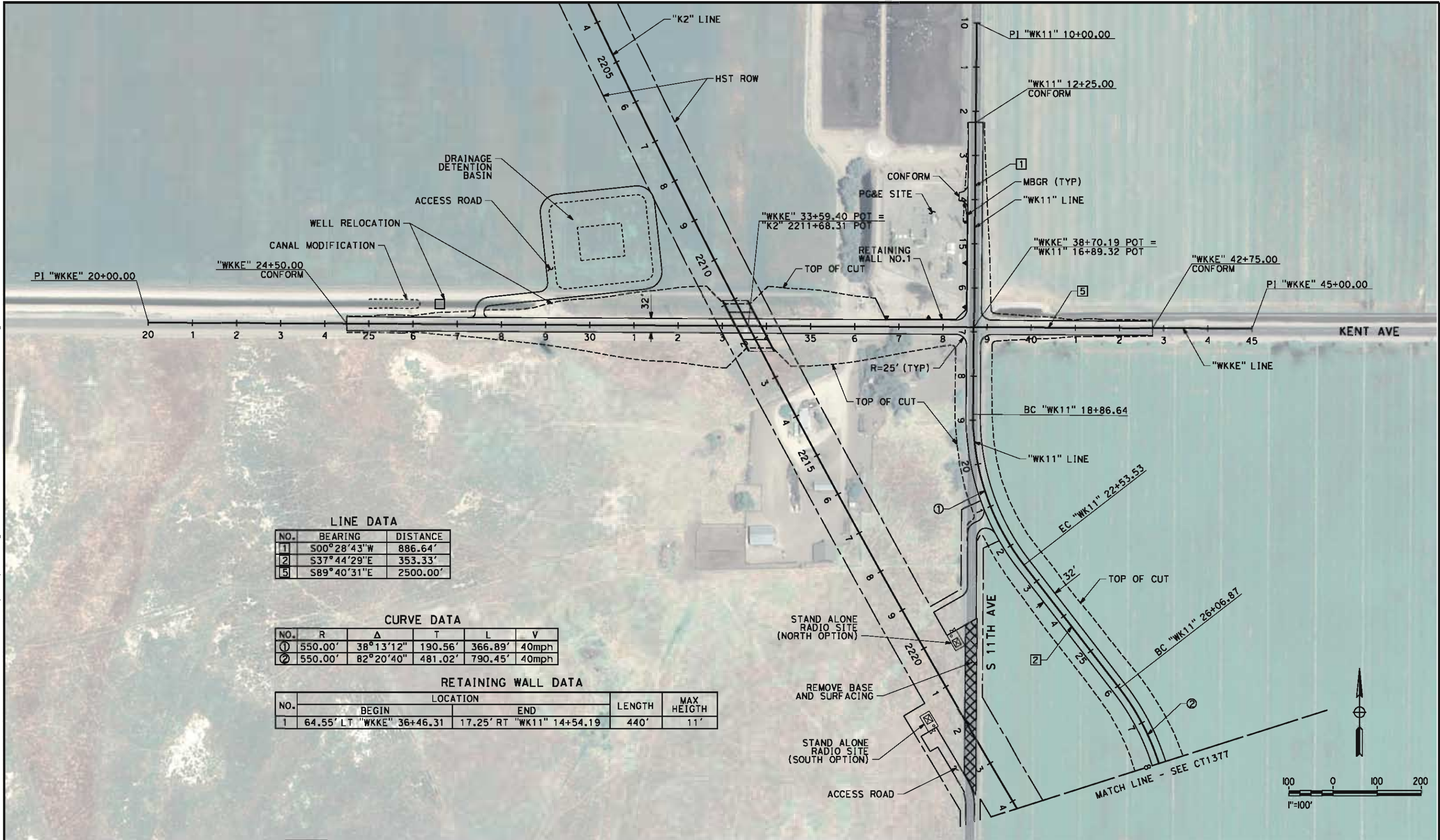


CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWAHEH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION LAYOUT
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1374
SCALE
AS SHOWN
SHEET NO.
4 OF 26

5/15/2012 1:51:35 PM CAHSR-r1.tbl CHSR_PDF_half_black.plt \\hmm\external\nef53329\dms09252\FB-C11376.dgn

NET53329



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



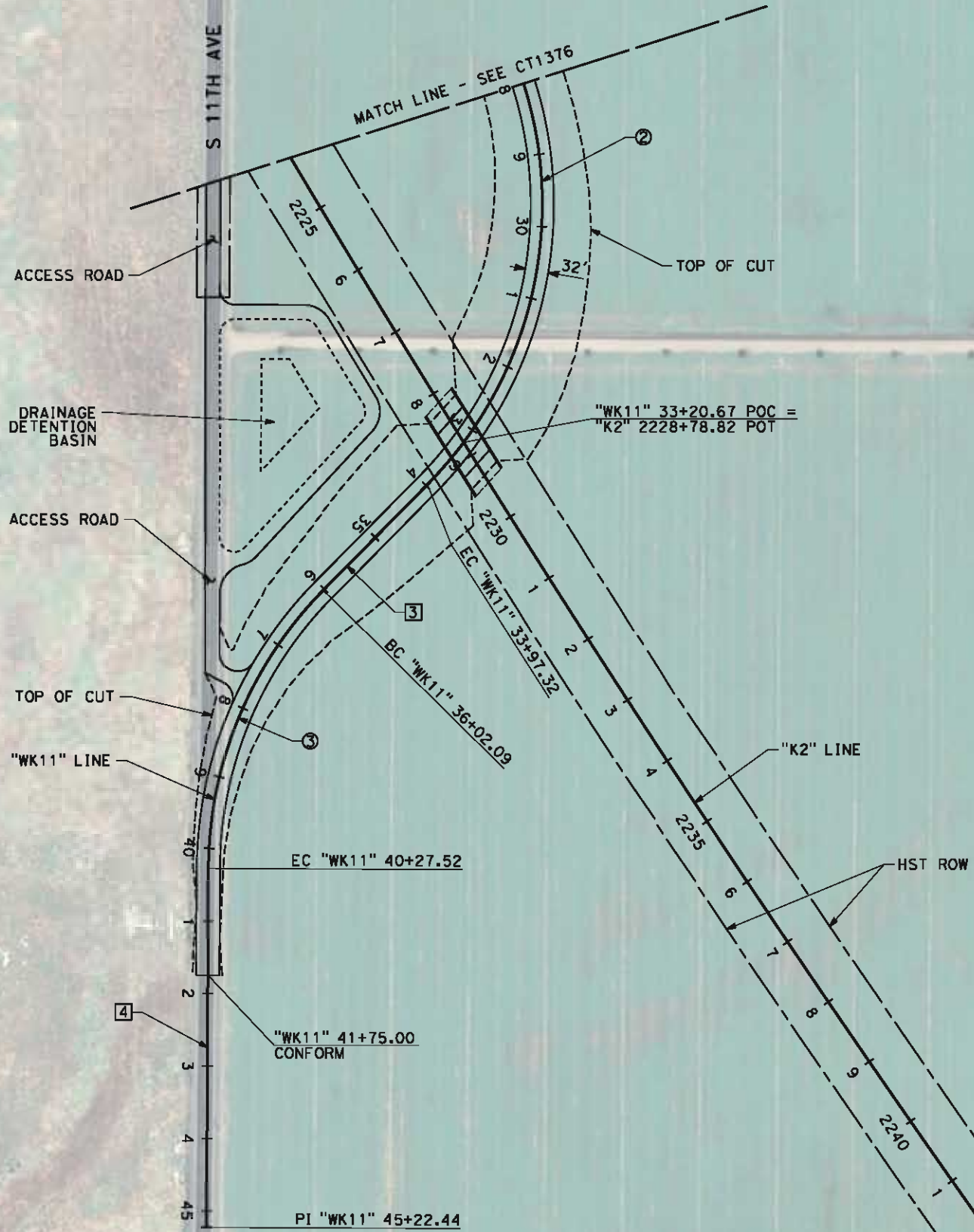
CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION LAYOUT
S 11TH AVE / KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1376
SCALE
AS SHOWN
SHEET NO.
5 OF 26

5/14/2012 1:32:48 PM CAHSR-r1.tbl CHSR_PDF_half_black.plt \\pwworking\hmm\external\nef53329\dms09252\FB-CT1377.dgn

LINE DATA		
NO.	BEARING	DISTANCE
3	S44°36'11"W	204.78'
4	S00°17'04"W	494.92'

CURVE DATA					
NO.	R	Δ	T	L	V
2	550.00'	82°20'40"	481.02'	790.45'	40mph
3	550.00'	44°19'06"	223.99'	425.43'	40mph



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

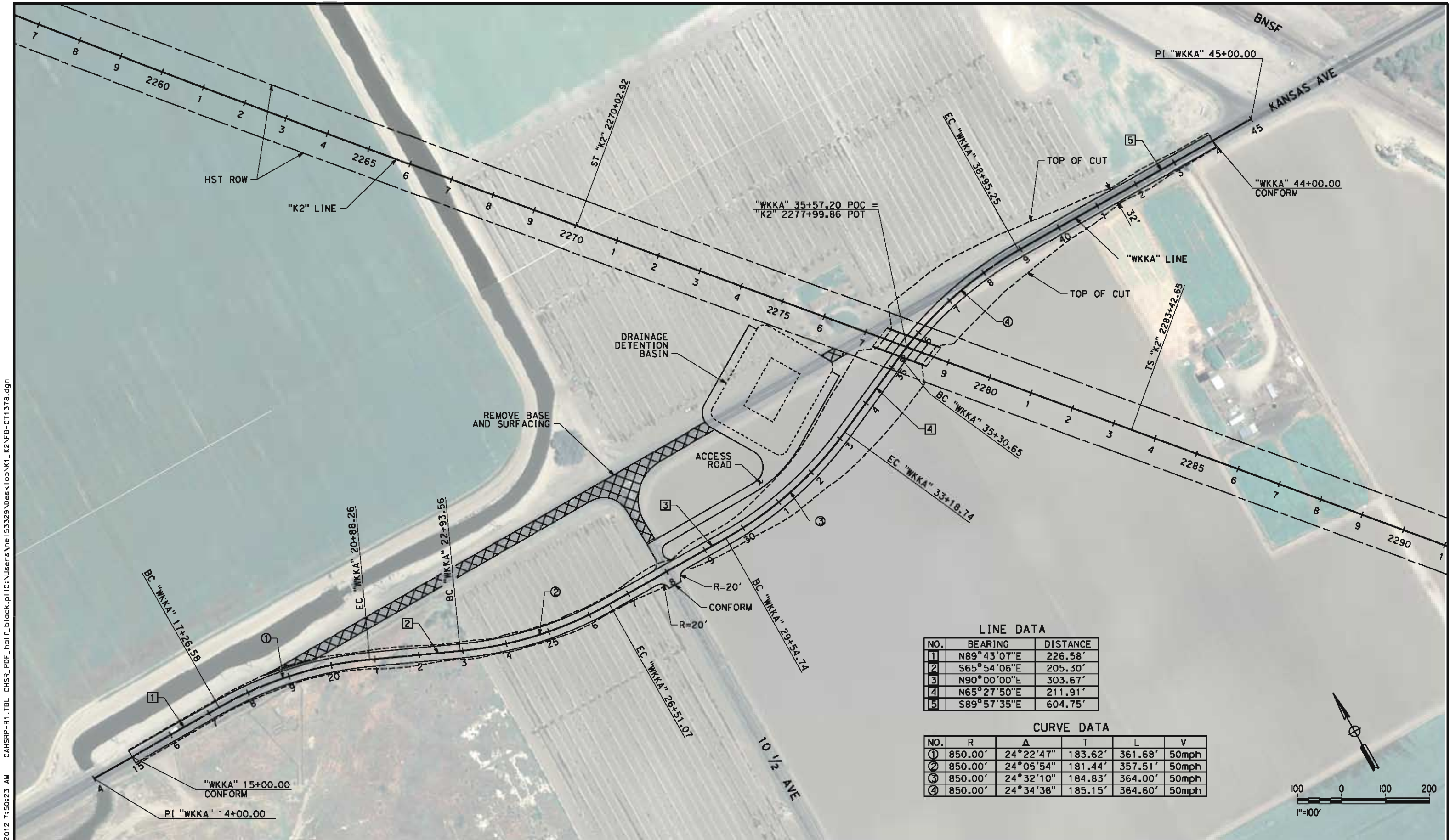
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION LAYOUT
S 11TH AVE / KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1377
SCALE
AS SHOWN
SHEET NO.
6 OF 26

5/11/2012 7:50:23 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT1378.dgn



LINE DATA		
NO.	BEARING	DISTANCE
1	N89°43'07"E	226.58'
2	S65°54'06"E	205.30'
3	N90°00'00"E	303.67'
4	N65°27'50"E	211.91'
5	S89°57'35"E	604.75'

CURVE DATA					
NO.	R	Δ	T	L	V
①	850.00'	24°22'47"	183.62'	361.68'	50mph
②	850.00'	24°05'54"	181.44'	357.51'	50mph
③	850.00'	24°32'10"	184.83'	364.00'	50mph
④	850.00'	24°34'36"	185.15'	364.60'	50mph

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

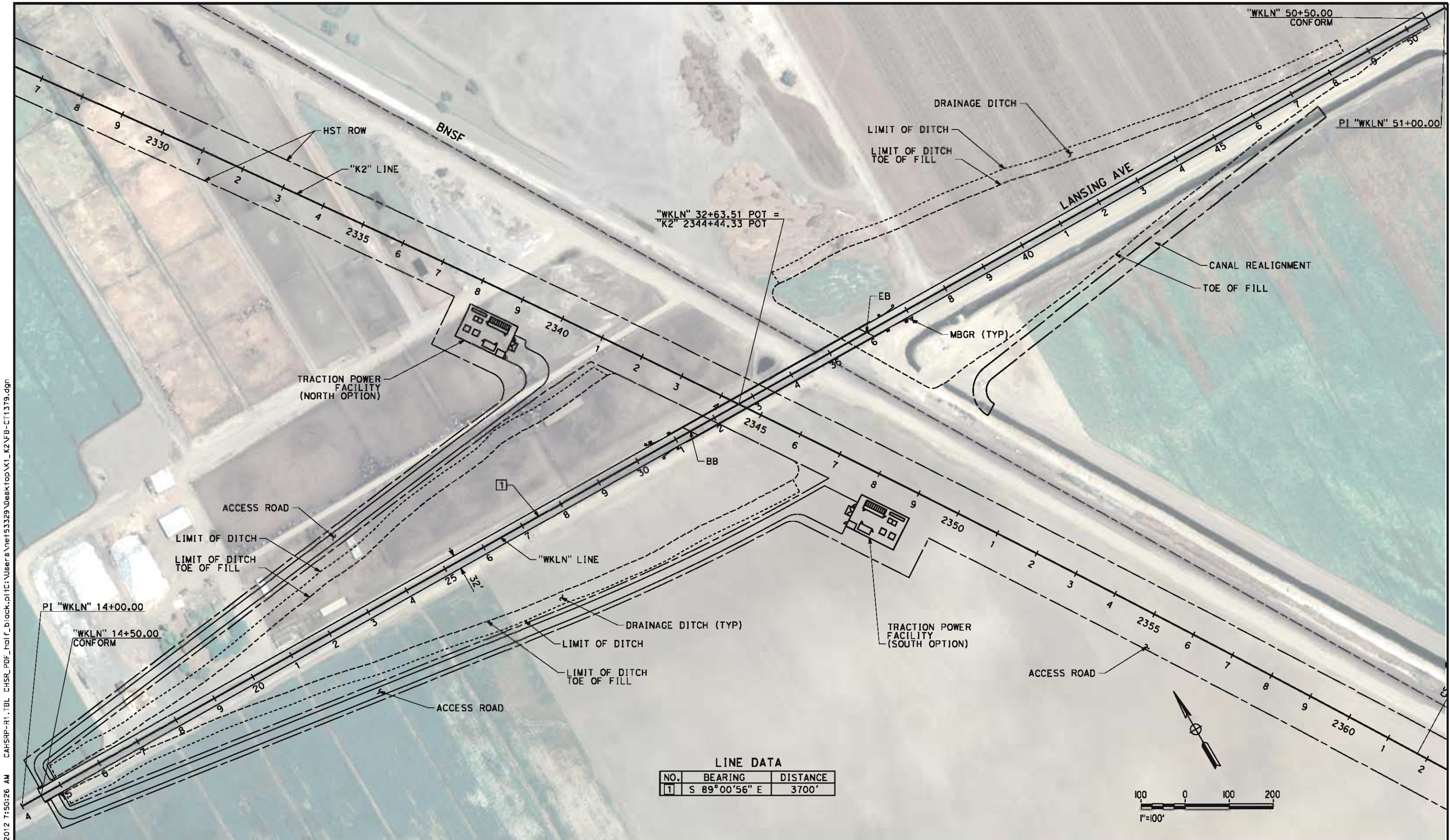


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION LAYOUT
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1378
SCALE
AS SHOWN
SHEET NO.
7 OF 26

5/11/2012 7:50:26 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT1379.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
P. BARBER
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

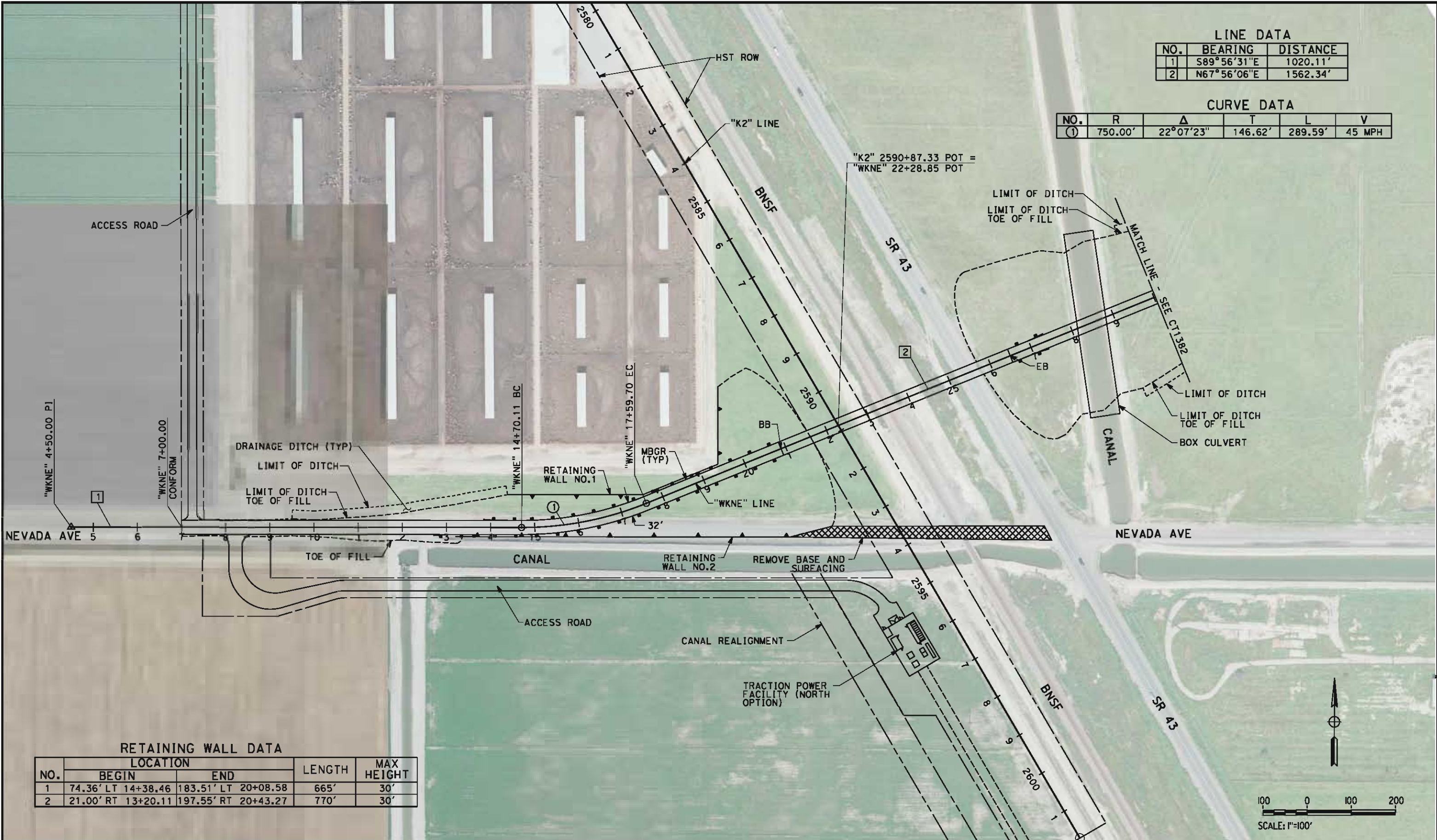
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION LAYOUT
LANSING AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1379
SCALE
AS SHOWN
SHEET NO.
8 OF 26

5/18/2012 5:13 PM C:\Users\jms53823\Documents\jms53823\Drawings\K2\K2-06-003.dgn JMS53823



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°56'31"E	1020.11'
2	N67°56'06"E	1562.34'

CURVE DATA					
NO.	R	Δ	T	L	V
①	750.00'	22°07'23"	146.62'	289.59'	45 MPH

RETAINING WALL DATA					
NO.	LOCATION		LENGTH	MAX HEIGHT	
	BEGIN	END			
1	74.36' LT 14+38.46	183.51' LT 20+08.58	665'	30'	
2	21.00' RT 13+20.11	197.55' RT 20+43.27	770'	30'	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BANN
IN CHARGE R. COFFIN
DATE 05/18/12

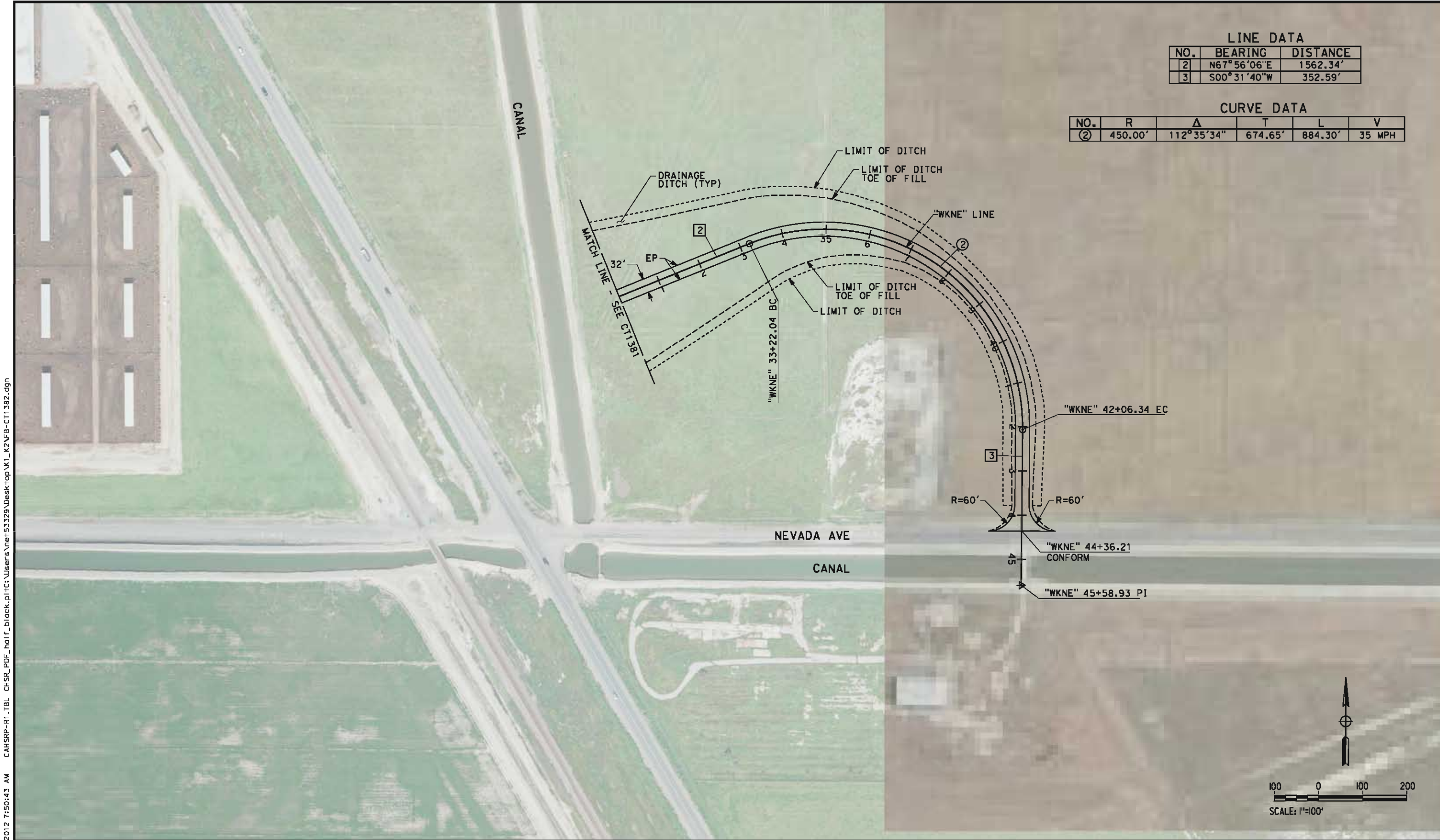
RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION LAYOUT
NEVADA AVE

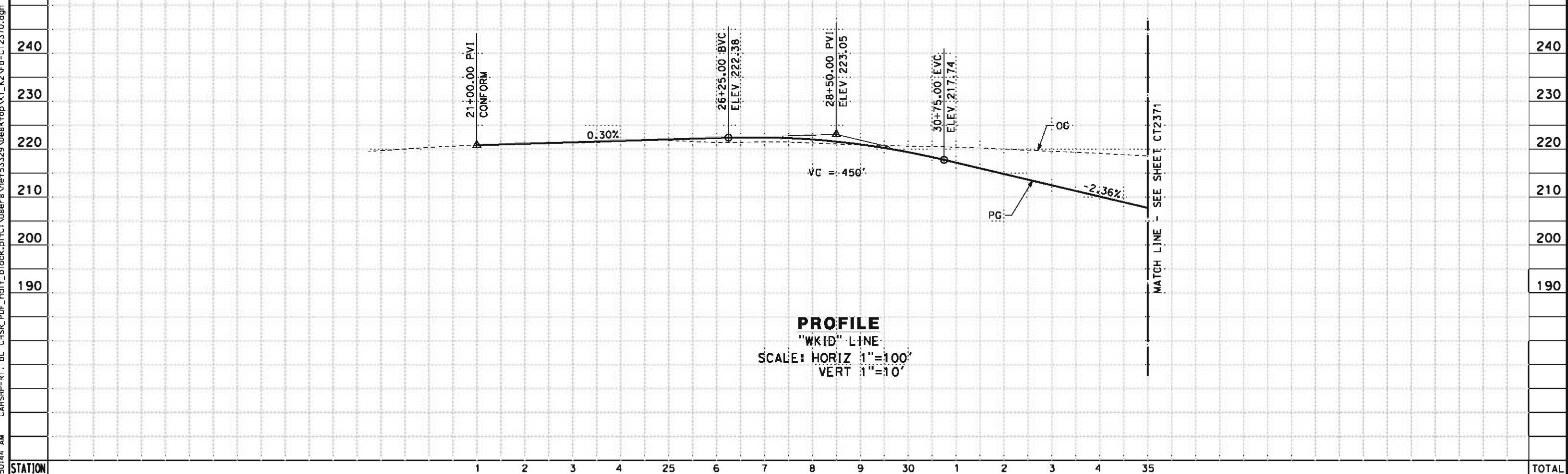
CONTRACT NO.
HSR 06-003
DRAWING NO.
CT1381
SCALE
AS SHOWN
SHEET NO.
9 OF 26



5/11/2012 7:50:43 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\nef53329\Desktop\K1_K2\FB-CT1382.dgn



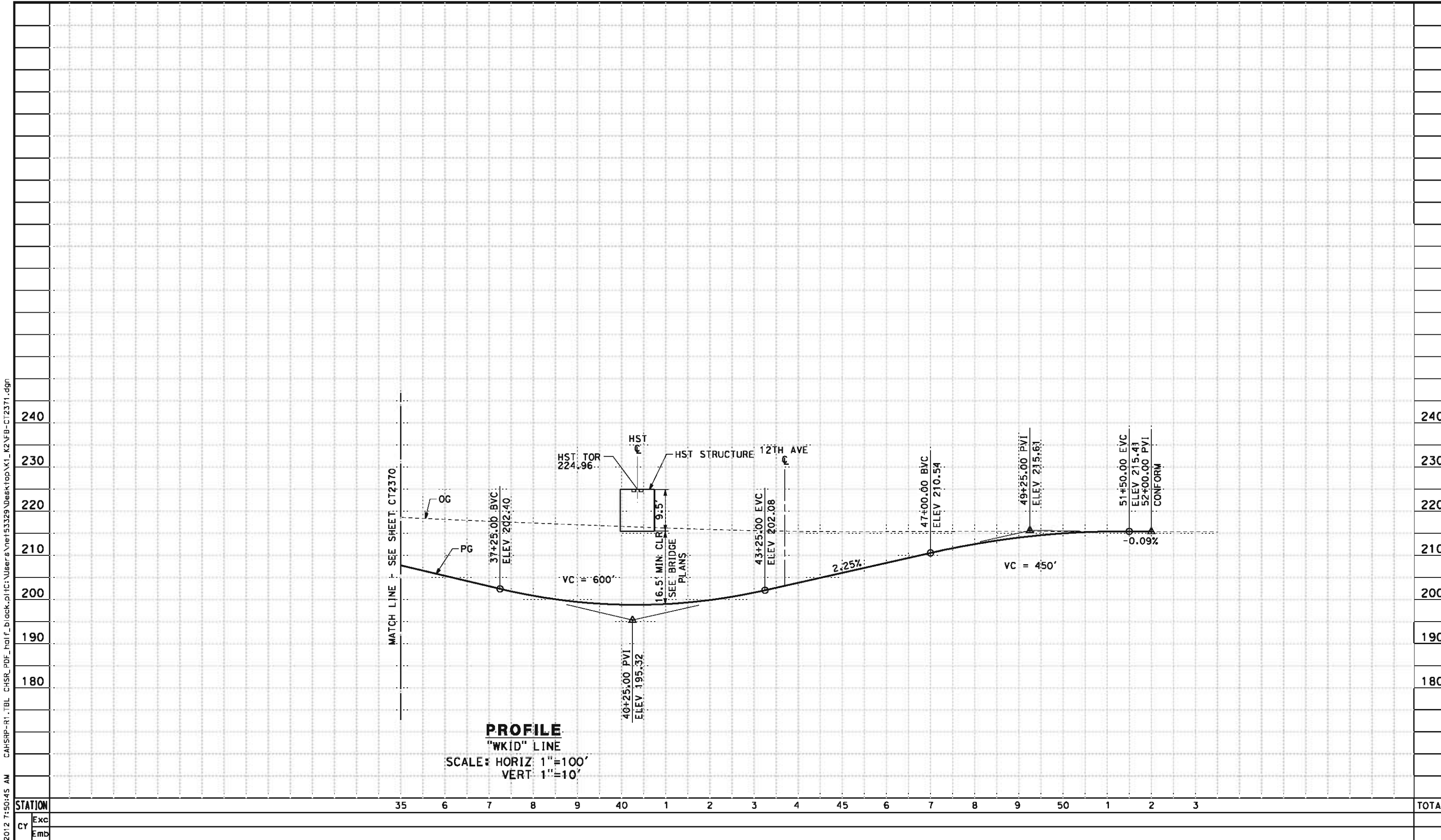
5/11/12							DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE KAWEAH SUBSECTION ALIGNMENT K2 GRADE SEPARATION LAYOUT NEVADA AVE			CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN	DRAWING NO. CT1382							
						CHECKED BY M. BMM	SCALE AS SHOWN							
						IN CHARGE R. COFFIN	SHEET NO. 10 OF 26							
						DATE 05/18/12								
NET53329	REV	DATE	BY	CHK	APP	DESCRIPTION								

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5'
2. VERTICAL DESIGN SPEED = 45 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



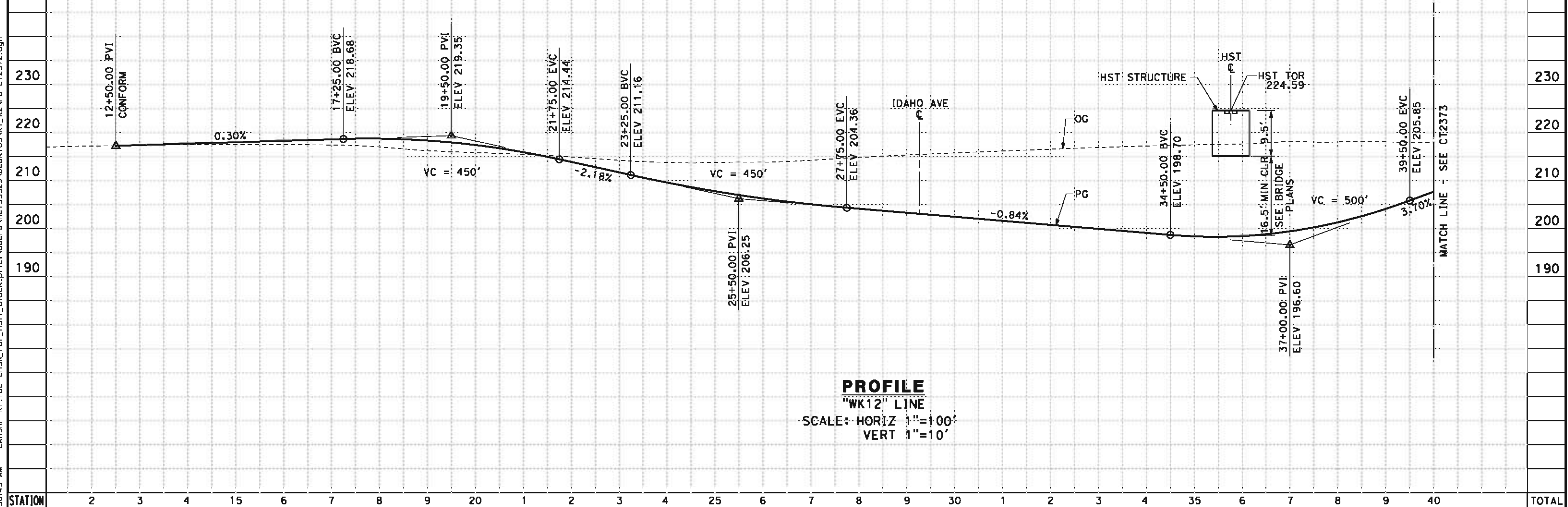
CY	Exc										
	Emb										
						DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE KAWEAH SUBSECTION ALIGNMENT K2 GRADE SEPARATION PROFILE IDAHO AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY D. BARNHART					DRAWING NO. CT2370
						CHECKED BY B. RAWSON					SCALE AS SHOWN
						IN CHARGE O. EARLE					SHEET NO. 11 OF 26
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12					

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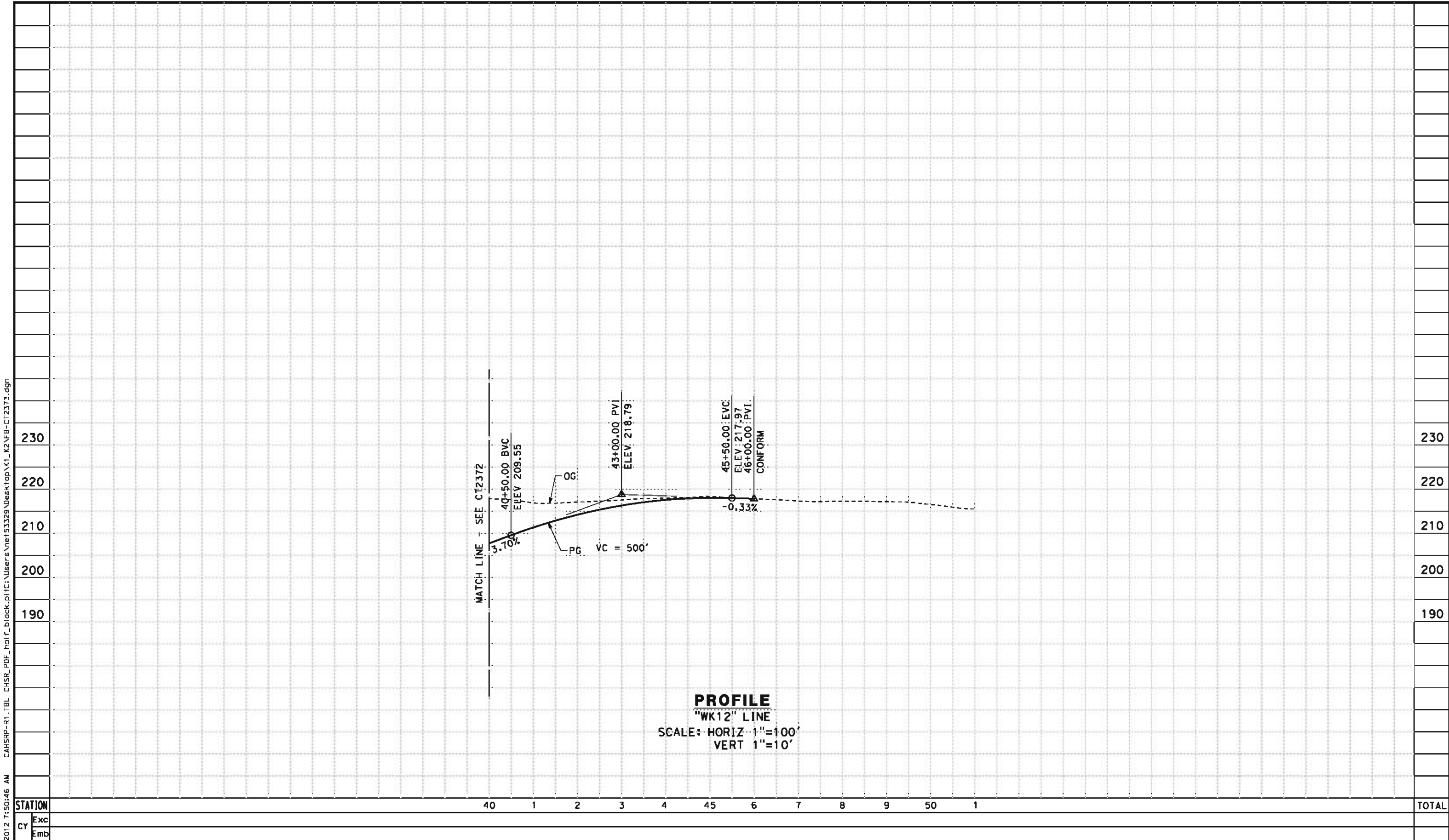


5/11							DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION			CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE KAWEAH SUBSECTION ALIGNMENT K2 GRADE SEPARATION PROFILE IDAHO AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY D. BARNHART	DRAWING NO. CT2371					
						CHECKED BY B. RAWSON	SCALE AS SHOWN					
						IN CHARGE O. EARLE	SHEET NO. 12 OF 26					
						DATE 05/18/12						
NET 53329	REV	DATE	BY	CHK	APP	DESCRIPTION						

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5'
2. VERTICAL DESIGN SPEED = 45 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

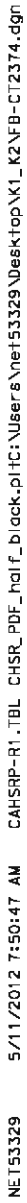
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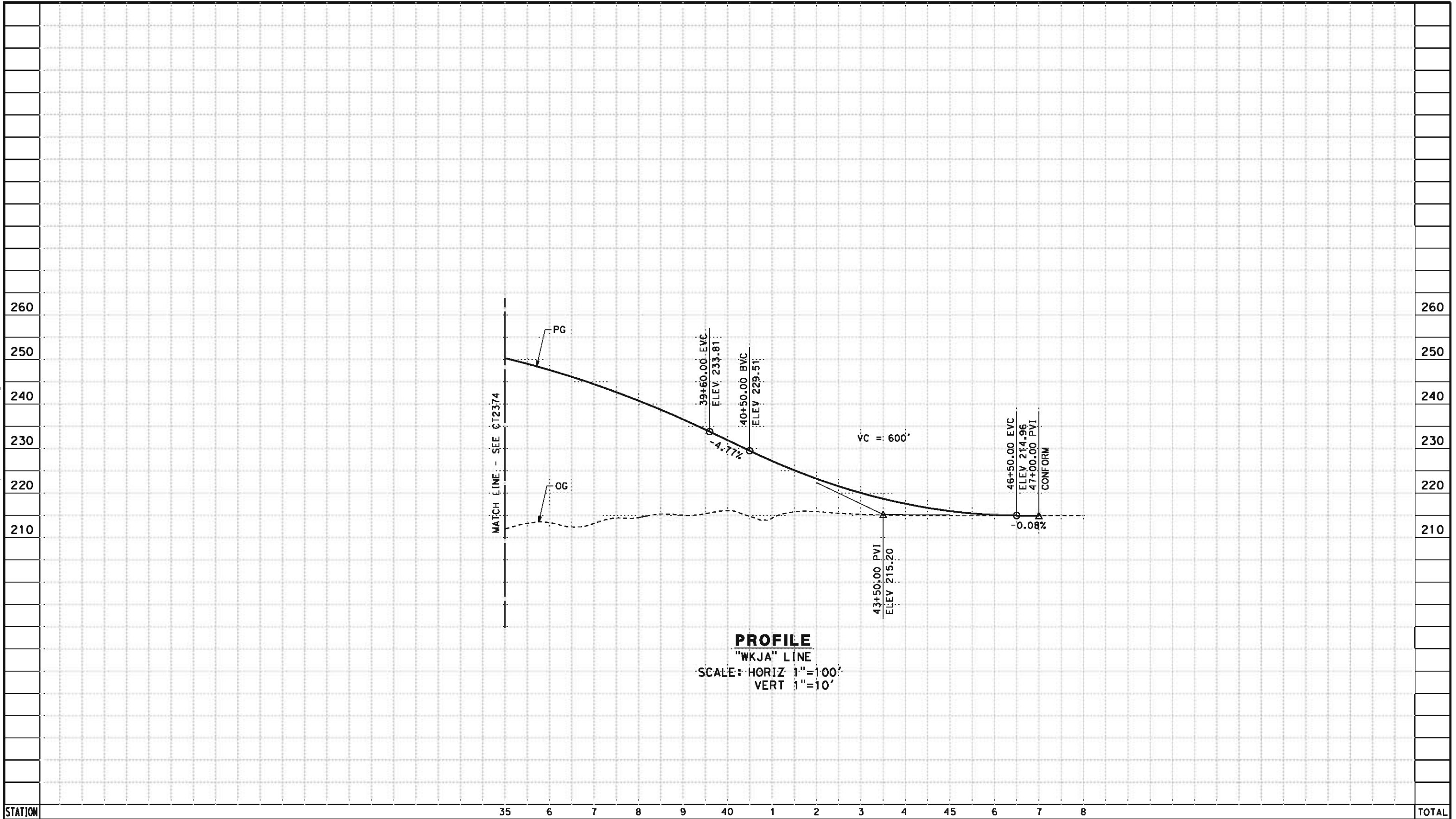




DESIGNED BY I. JOSIFEK					RECORD SET 15% DESIGN SUBMISSION					CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE					CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART					NOT FOR CONSTRUCTION					KAWEAH SUBSECTION ALIGNMENT K2					DRAWING NO. CT2373
CHECKED BY B. RAWSON					DATE 05/18/12					GRADE SEPARATION PROFILE 12TH AVE (AT IDAHO AVE)					SCALE AS SHOWN
IN CHARGE O. EARLE															SHEET NO. 14 OF 26
DATE 05/18/12															
REV	DATE	BY	CHK	APP	DESCRIPTION										

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



CY	Exc																			
	Emb																			
						DESIGNED BY J. NETTLETON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 CALIFORNIA HIGH-SPEED TRAIN	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE					CONTRACT NO. HSR 06-0003					
						DRAWN BY D. BARNHART				KAWEAH SUBSECTION					DRAWING NO. CT2374					
						CHECKED BY B. RAWSON				ALIGNMENT K2					SCALE AS SHOWN					
						IN CHARGE O. EARLE				GRADE SEPARATION PROFILE					SHEET NO. 15 OF 26					
						DATE 05/18/12				JACKSON AVE										
REV	DATE	BY	CHK	APP	DESCRIPTION															

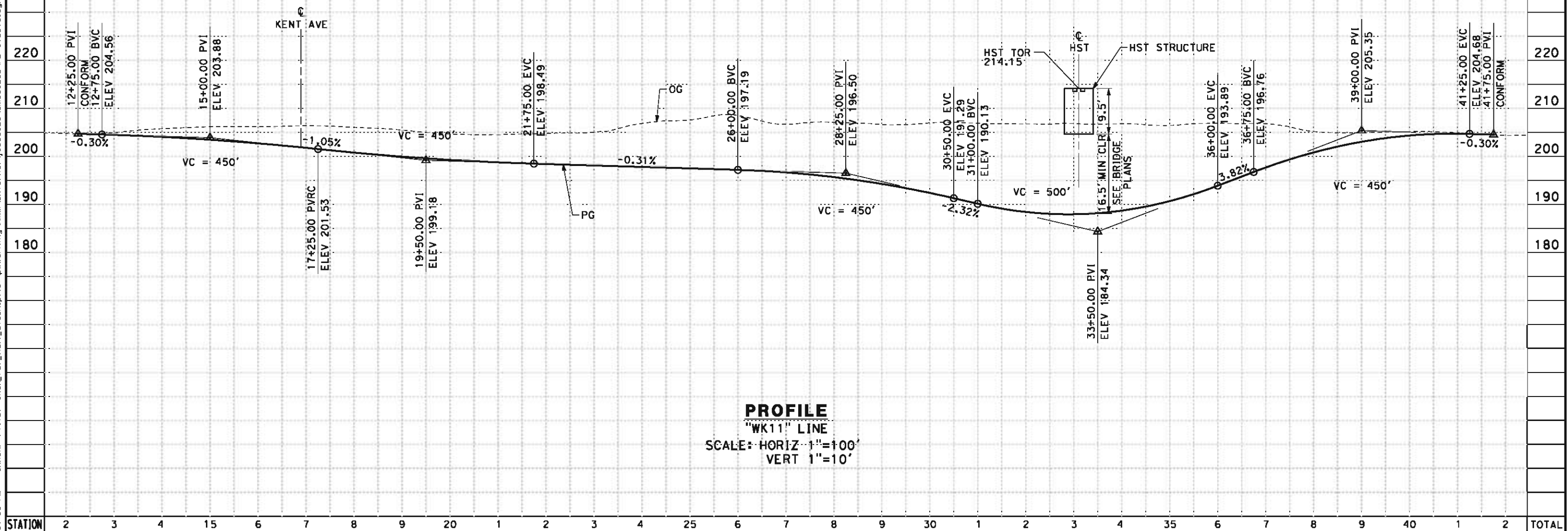


CY	Exc										
	Emb										
						DESIGNED BY J. NETTLETON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 CALIFORNIA HIGH-SPEED TRAIN	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE KAWEAH SUBSECTION ALIGNMENT K2 GRADE SEPARATION PROFILE JACKSON AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY D. BARNHART					DRAWING NO. CT2375
						CHECKED BY B. RAWSON					SCALE AS SHOWN
						IN CHARGE O. EARLE					SHEET NO. 16 OF 26
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12					

J0553823 5/14/2012 1:37:58 PM CAHSR-r1.tbl CHSR_PDF_half_black.plt: \\j0553823\mms09252\FB-C12376.dgn

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5'
2. VERTICAL DESIGN SPEED = 45 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	TOTAL
Exc																																
Emb																																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

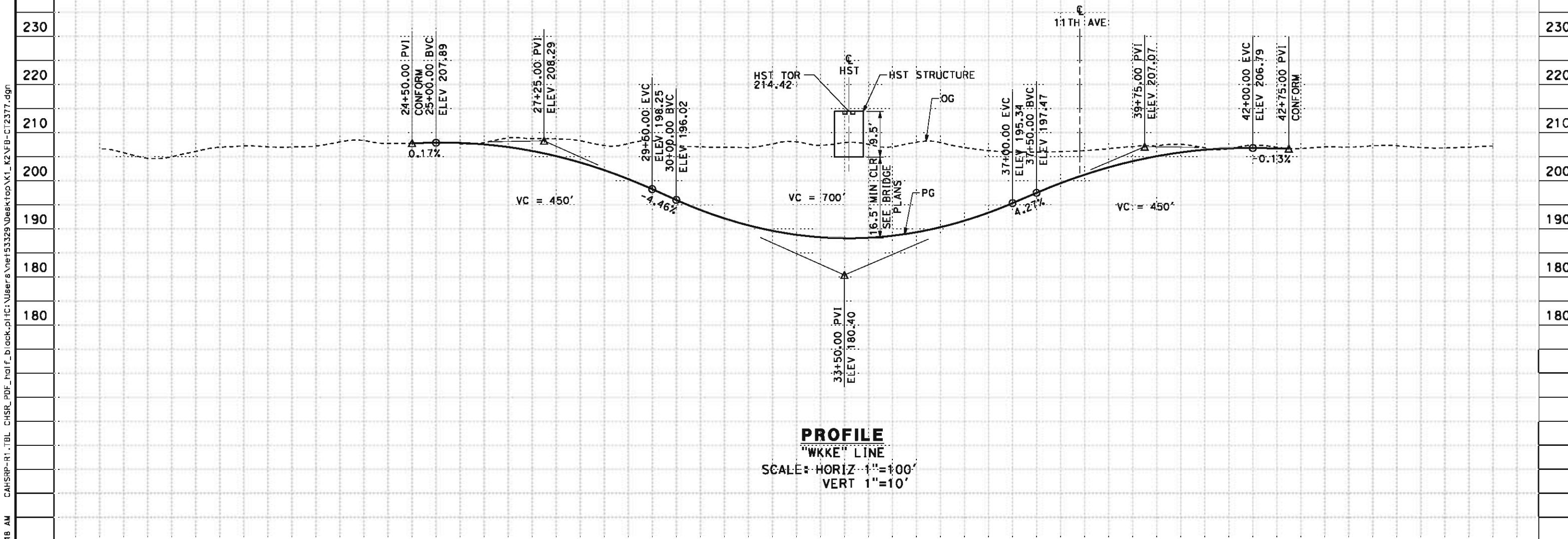


CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION PROFILE
11TH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2376
SCALE
AS SHOWN
SHEET NO.
17 OF 26

5/11/2012 7:50:48 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2377.dgn NET53329

- NOTES:
- 1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5'
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



PROFILE
"WKKE" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

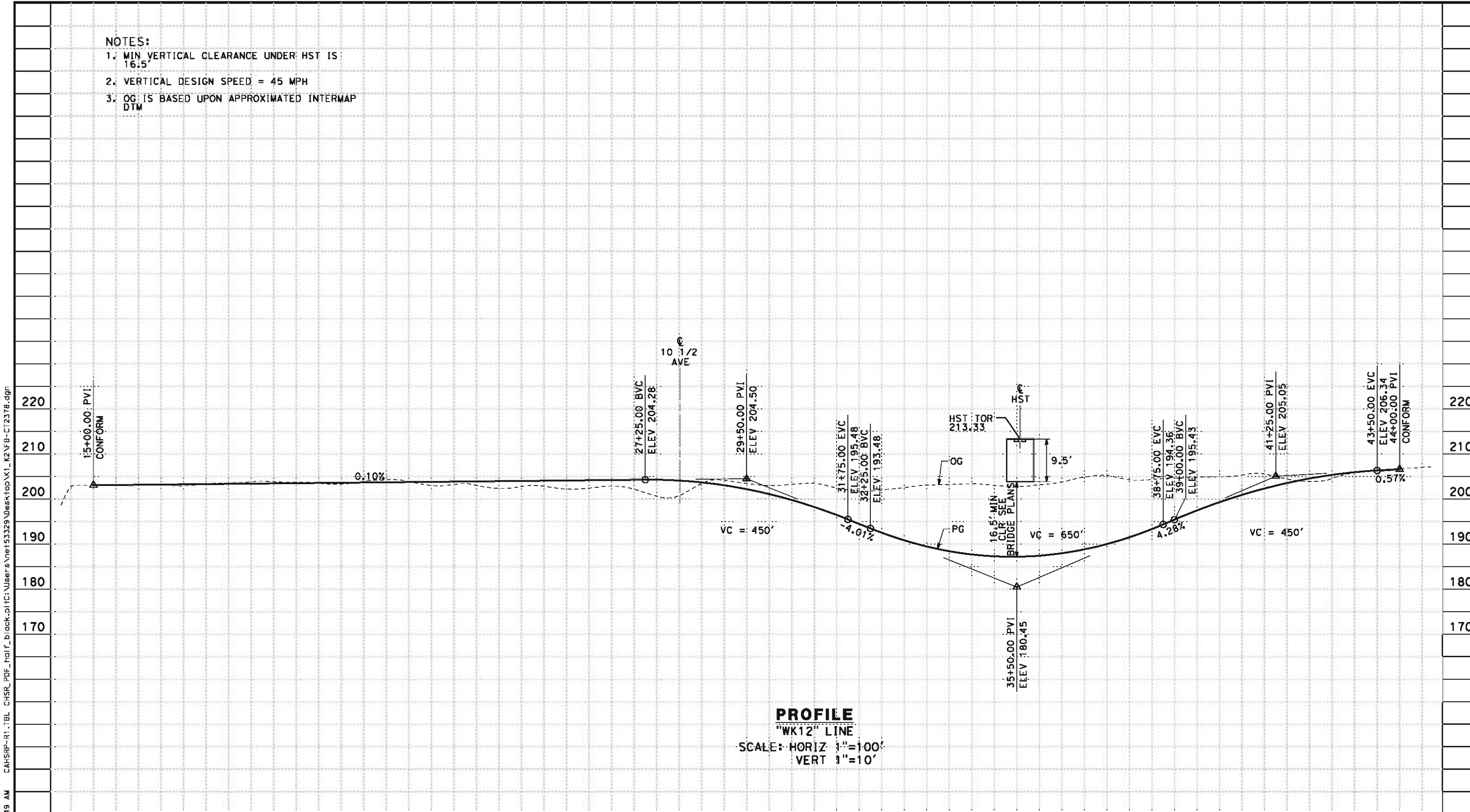
**NOT FOR
CONSTRUCTION**





**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION PROFILE
KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2377
SCALE
AS SHOWN
SHEET NO.
18 OF 26

- NOTES:
- 1. MIN VERTICAL CLEARANCE UNDER HST IS 16.5'
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

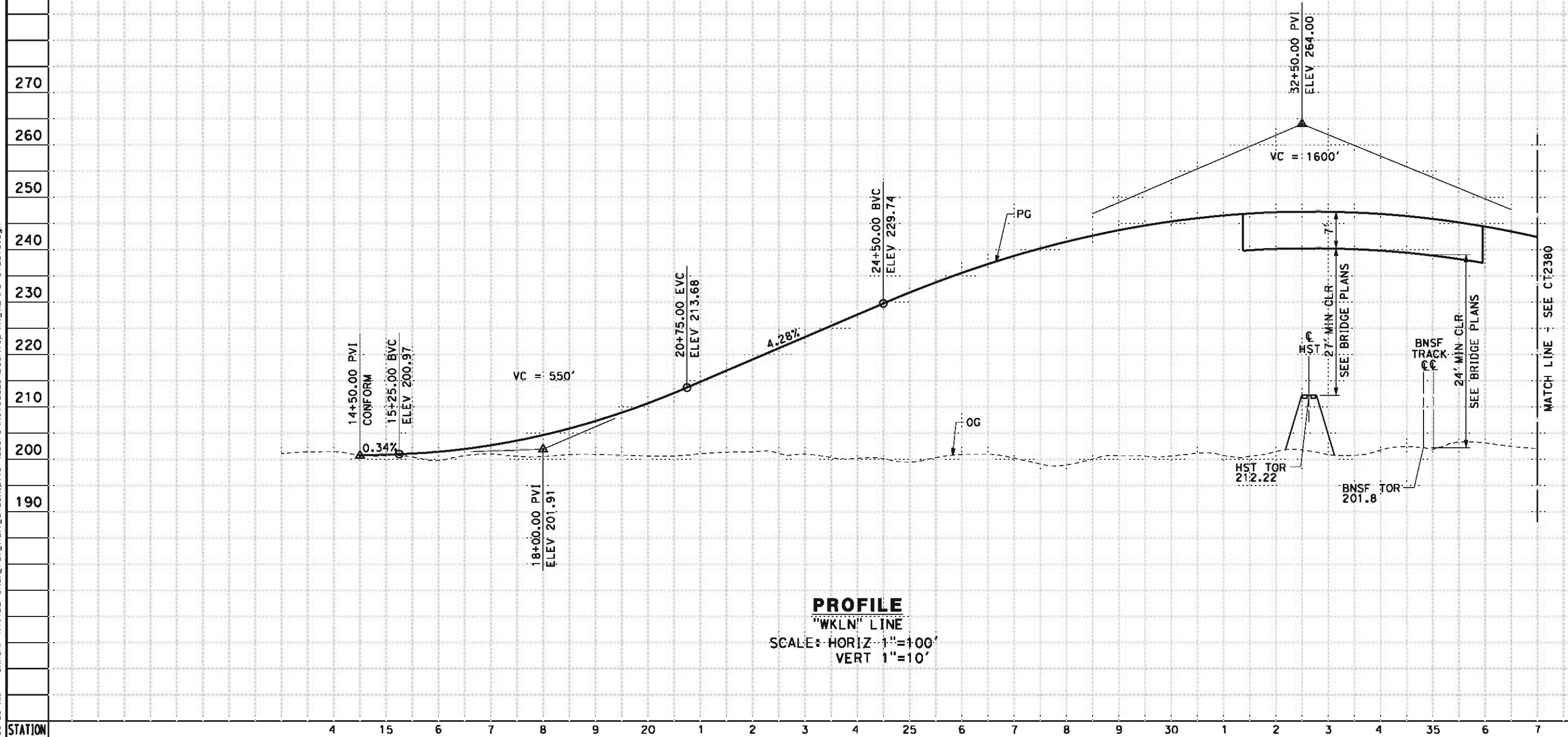


PROFILE
"WK12" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	5	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	TOTAL		
	Exc																																
	Emb																																
CY																																	
5/11/2012 T=50 NE153329																																	
REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY J. NETTLETON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 CALIFORNIA HIGH-SPEED TRAIN	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE KAWEAH SUBSECTION ALIGNMENT K2 GRADE SEPARATION PROFILE KANSAS AVE	CONTRACT NO. HSR 06-0003																						
						DRAWING NO. CT2378																											
						SCALE AS SHOWN																											
						SHEET NO. 19 OF 26																											

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



PROFILE
 "WKLN" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

STATION	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	TOTAL
Exc																									
Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
 DRAWN BY
D. BARNHART
 CHECKED BY
B. RAWSON
 IN CHARGE
O. EARLE
 DATE
05/18/12

**RECORD SET 15%
 DESIGN SUBMISSION**

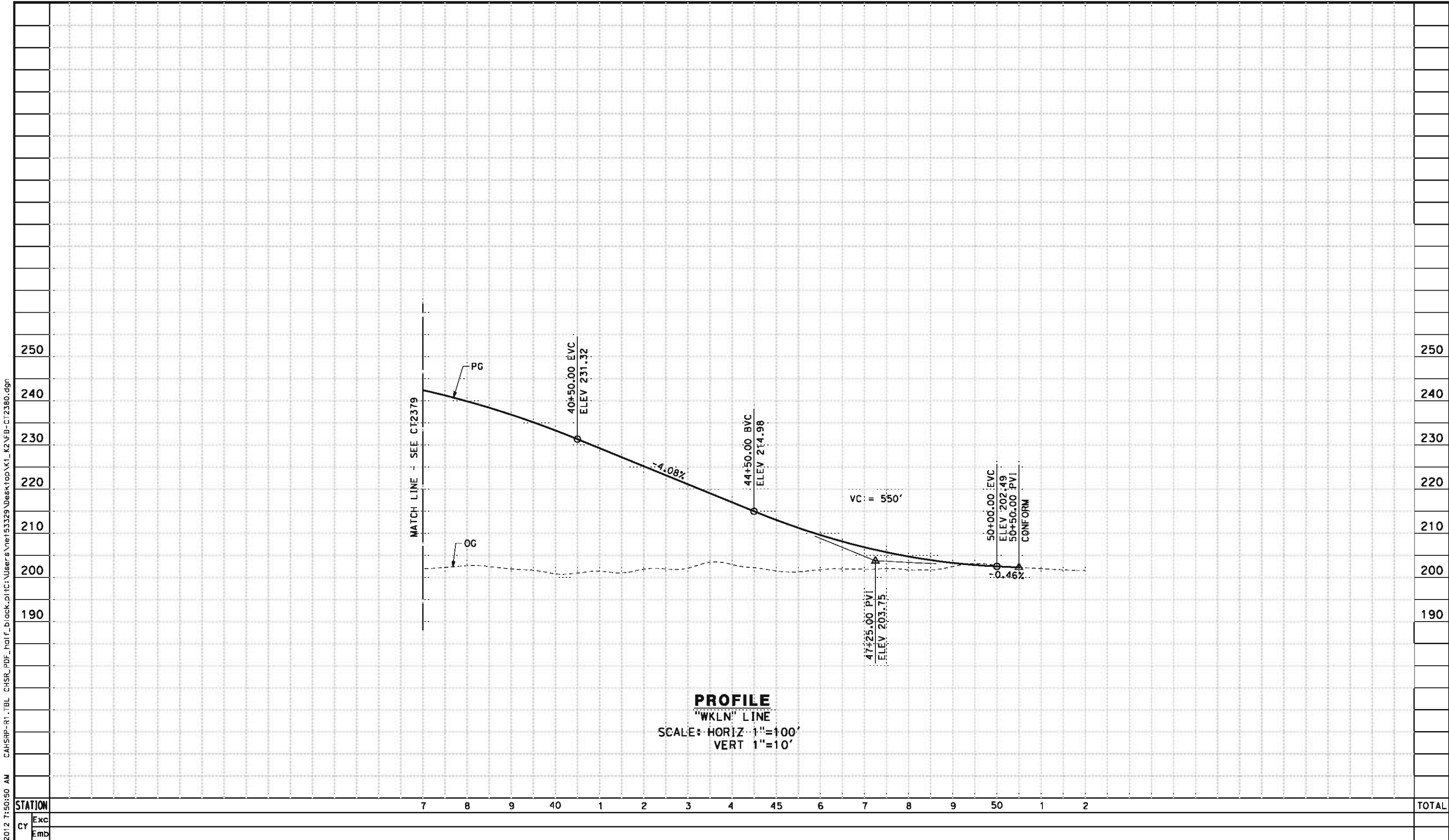
**NOT FOR
 CONSTRUCTION**





**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 BAKERSFIELD TO PALMDALE**
 KAWAIAH SUBSECTION
 ALIGNMENT K2
 GRADE SEPARATION PROFILE
 LANSING AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2379
 SCALE
AS SHOWN
 SHEET NO.
20 OF 26

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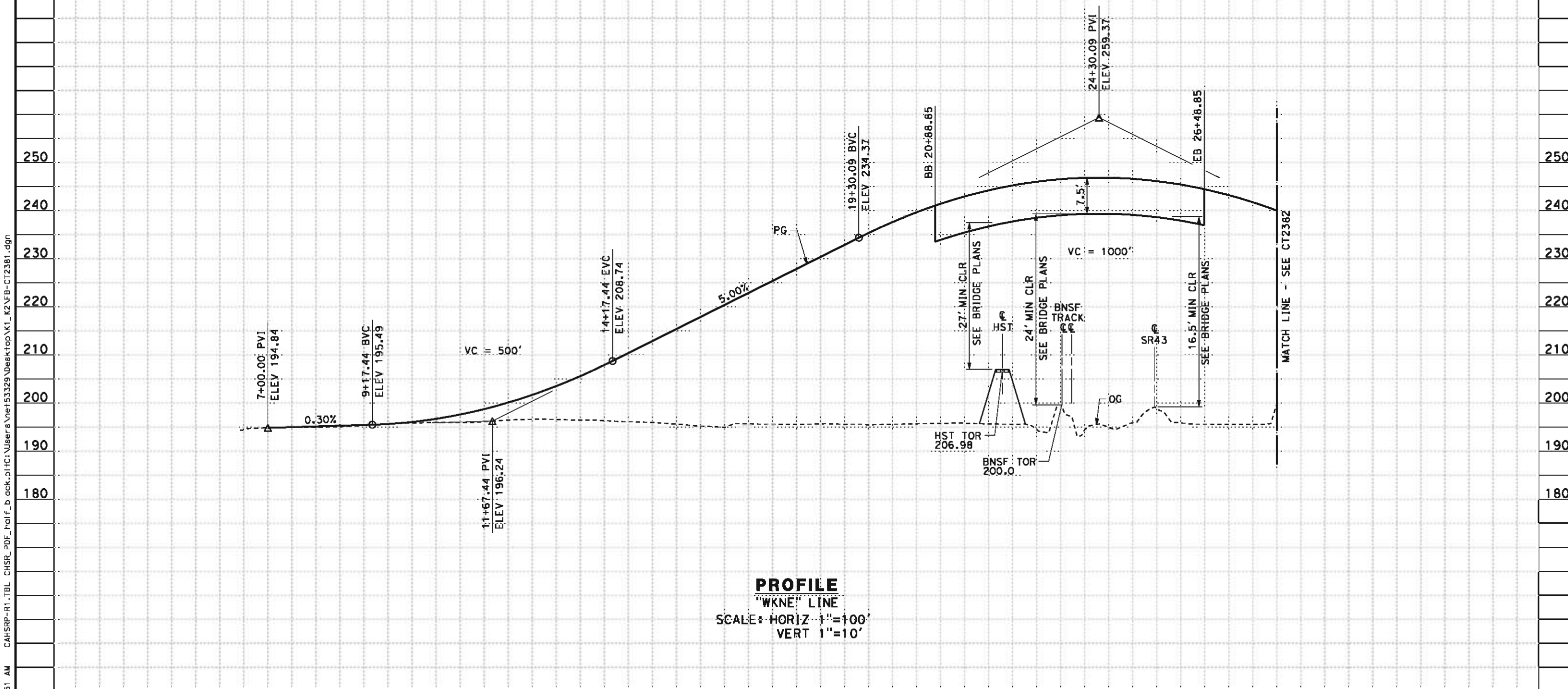


DESIGNED BY I. JOSIFEK						DRAWN BY D. BARNHART						CHECKED BY B. RAWSON						IN CHARGE O. EARLE						DATE 05/18/12					
RECORD SET 15% DESIGN SUBMISSION						NOT FOR CONSTRUCTION																		CALIFORNIA HIGH-SPEED TRAIN PROJECT BAKERSFIELD TO PALMDALE					
																		KAWEAH SUBSECTION ALIGNMENT K2 GRADE SEPARATION PROFILE LANSING AVE						CONTRACT NO. HSR 06-0003					
																		DRAWING NO. CT2380											
																		SCALE AS SHOWN											
																		SHEET NO. 21 OF 26											

5/11/2012 7:50:51 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2381.dgn

NOTES:

- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
- 2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 23.5' FROM TOP OF RAIL
- 3. MINIMUM VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY
- 4. VERTICAL DESIGN SPEED = 45 MPH
- 5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



PROFILE
"WKNE" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	TOTAL
CY	Exc																											
	Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

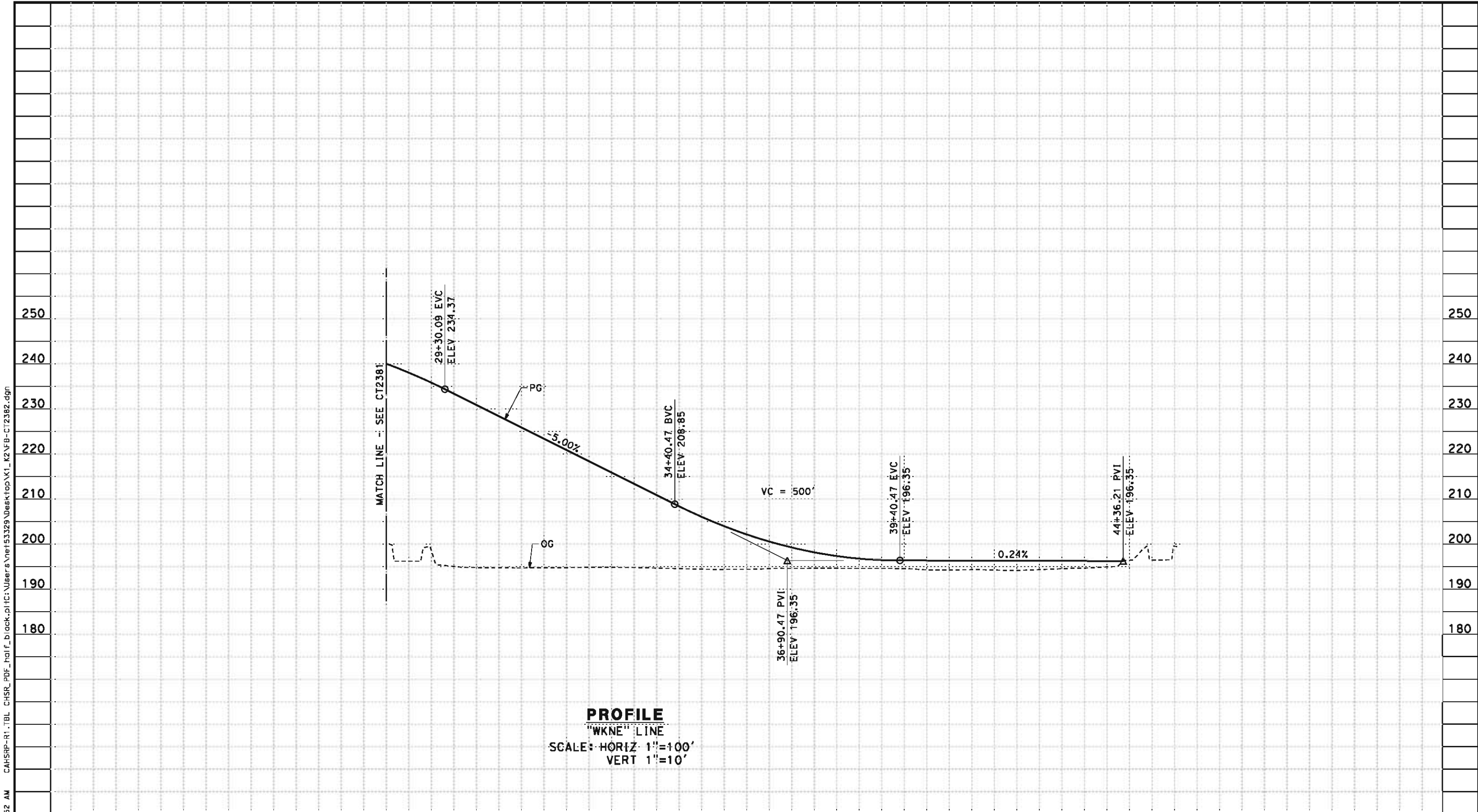


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**

KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION PROFILE
NEVADA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2381
SCALE AS SHOWN
SHEET NO. 22 OF 26

5/11/2012 7:50:52 AM CAHSR-R1.TBL CHSR_PDF_half_black.plt C:\Users\Net53329\Desktop\K1_K2\FB-CT2382.dgn



PROFILE
"WKNE" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	TOTAL
CY	Exc																			
	Emb																			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BAMM
IN CHARGE
R. COFFIN
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE**
KAWEAH SUBSECTION
ALIGNMENT K2
GRADE SEPARATION PROFILE
NEVADA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2382
SCALE
AS SHOWN
SHEET NO.
23 OF 26

NOTES:

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

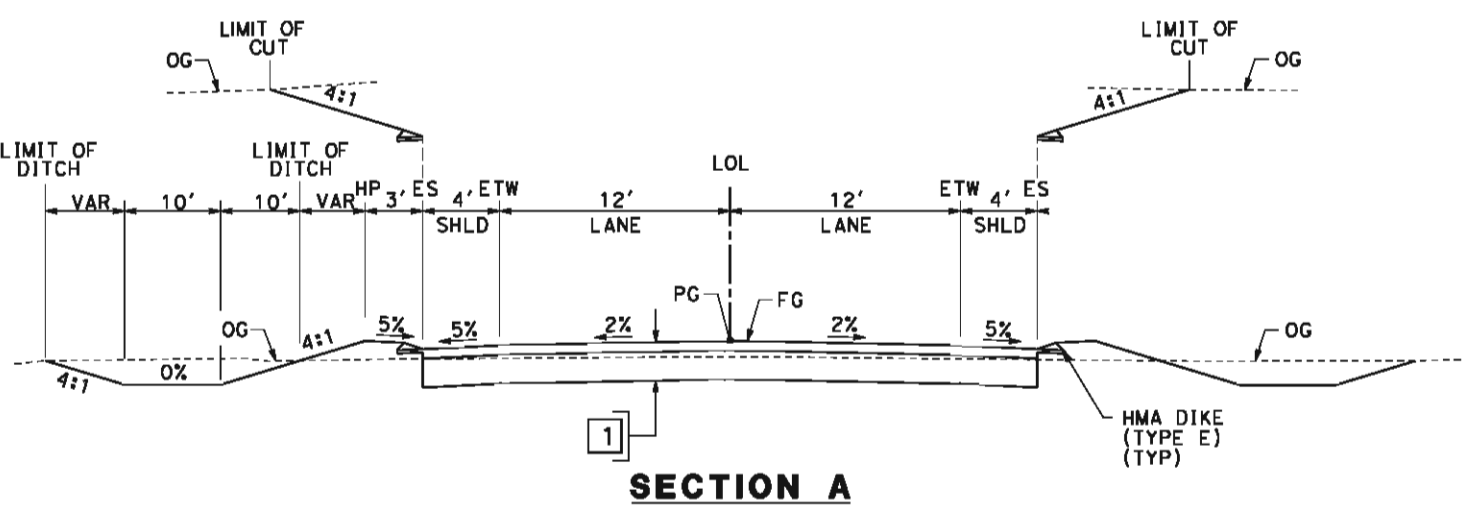
STRUCTURAL SECTIONS

TYPICAL ROADWAY (4' SHOULDER)

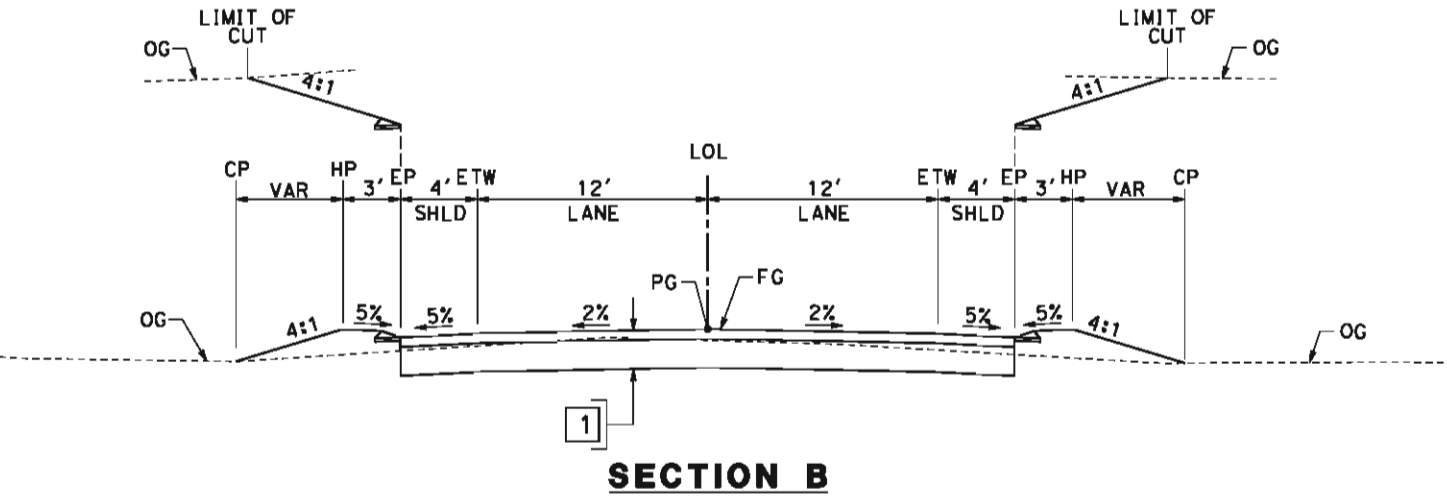
1 — 0.30' HMA (TYPE A)
1.40' CL 2' AB

TYPICAL ROADWAY (8' SHOULDER)

2 — 0.40' HMA (TYPE A)
1.70' CL 2' AB



"WKJA" 14+88.53 TO 28+34.50
"WKJA" 30+61.50 TO 46+75.00
"WKLN" 15+00.00 TO 31+37.51



"WKID" 21+00.00 TO 52+00.00
"WK12" 12+50.00 TO 46+00.00
"WKJA" 13+50.00 TO 14+88.53
"WKJA" 46+75.00 TO 47+00.00
"WK11" 12+25.00 TO 14+54.19
"WK11" 16+71.93 TO 41+75.00
"WKKE" 24+50.00 TO 36+46.31
"WKKE" 38+52.98 TO 42+75.00
"WKKA" 15+00.00 TO 44+00.00
"WKLN" 14+50.00 TO 15+00.00
"WKLN" 48+50.00 TO 50+50.00
"WKNE" 7+00.00 TO 9+50.00

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
D. BARNHART
CHECKED BY
B. RAWSON
IN CHARGE
Q. EARLE
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWEAH SUBSECTION
ALIGNMENT K2
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3350
SCALE AS SHOWN
SHEET NO. 24 OF 26

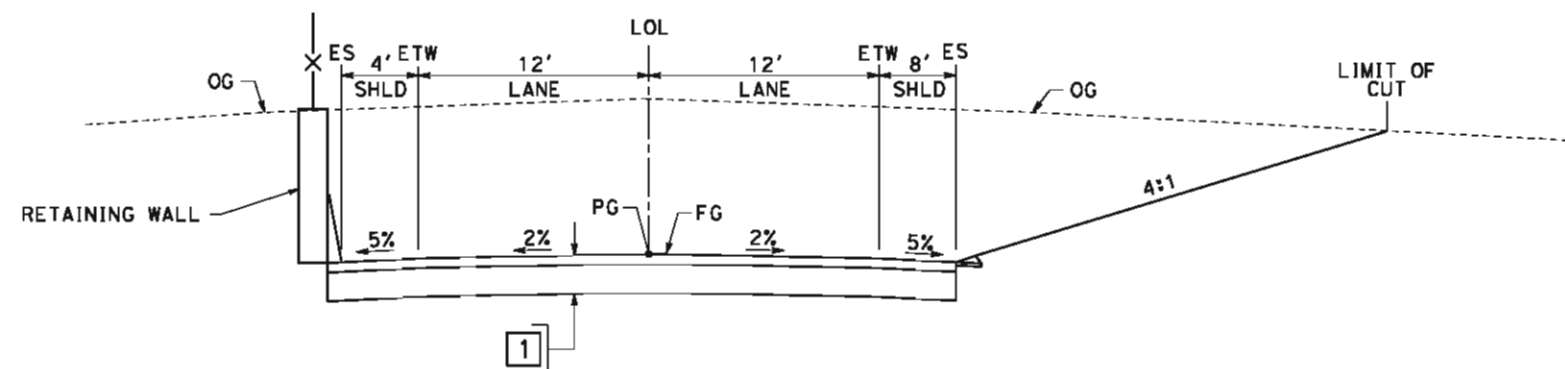


The diagram illustrates a highway cross-section with the following components and dimensions:

- Horizontal Dimensions:**
 - Left Shoulder (SHLD): 4'
 - Left Lane (LANE): 12'
 - Right Lane (LANE): 12'
 - Right Shoulder (SHLD): 4'
- Vertical Dimensions:**
 - Left Slope: 4:1
 - Right Slope: 4:1
- Key Features:**
 - LOL (Line of Sight):** Indicated by a vertical dashed line.
 - PG (Proposed Grade):** The main horizontal line representing the road surface.
 - FG (Finished Grade):** The line below PG, representing the existing ground level.
 - Grades:** 5% on the left shoulder, 2% on the left lane, 2% on the right lane, and 5% on the right shoulder.
 - Limit of Cut:** Indicated by a dashed line on the left side.
 - Retaining Wall:** Located on the right side of the road.
 - OG (Original Ground):** Indicated by a dashed line on the right side.

SECTION D

"WK11" 14+54.19 TO 16+71.93



SECTION E

"WKKE" 36+46.31 TO 38+52.98

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	J. NETTLETON
DRAWN BY	D. BARNHART
CHECKED BY	B. RAWSON
IN CHARGE	Q. EARLE
DATE	05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

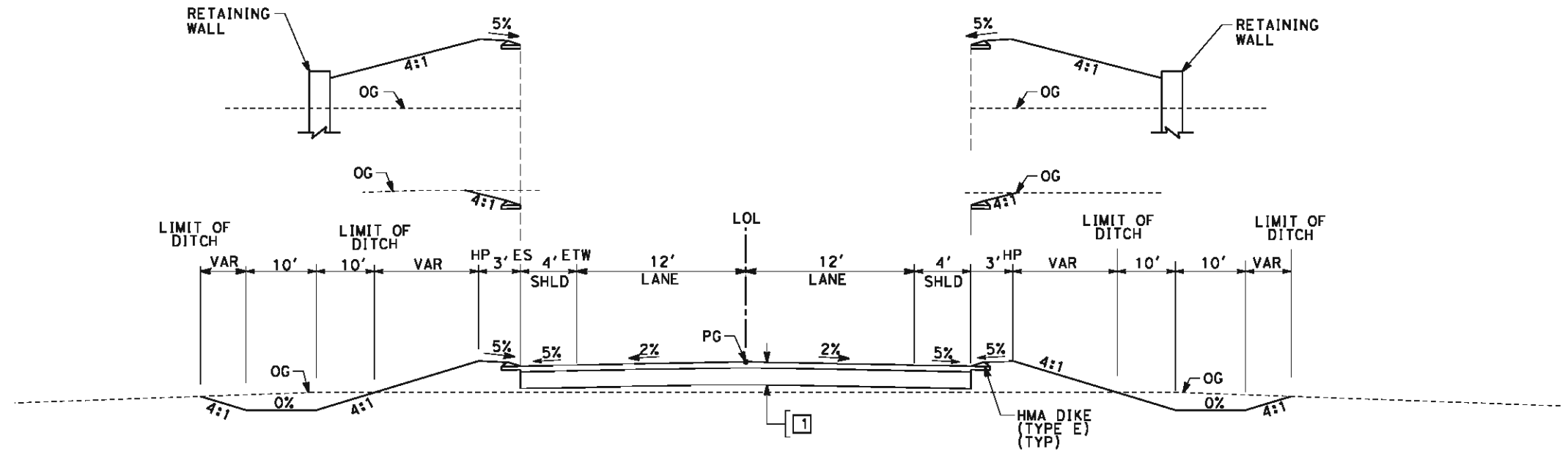


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
BAKERSFIELD TO PALMDALE
KAWEAH SUBSECTION
ALIGNMENT K2
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT3351
SCALE	AS SHOWN
SHEET NO.	25 OF 26

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SECTION F

"WKNE" 9+50.00 TO 20+88.85

"WKNE" 26+48.85 TO 44+36.21

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON

DRAWN BY
D. BARNHART

CHECKED BY
B. RAWSON

IN CHARGE
O. EARLE

DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

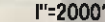
**KAWEAH SUBSECTION
ALIGNMENT K2
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT3352

SCALE
AS SHOWN

SHEET NO.
26 OF 26



STREET CLOSURE	
STREET NAME	HST ALIGNMENT STA
JERSEY AVE	2227+50.00
LANSING AVE	2395+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAHM
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 152
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB0060
SCALE	AS SHOWN
SHEET NO.	1 OF 27

eran-sudhausen 5/17/2012 9:02:07 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K3\FB-CT-1201-K3.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°43'34" E	3600.00'

IDAHO AVE

"KID" 10+00.00 PI
CONFORM

DRAINAGE DITCH (TYP)

LIMIT OF DITCH
LIMIT OF DITCH
TOE OF FILL

EP

LIMIT OF DITCH
TOE OF FILL
LIMIT OF DITCH

1

32'

"KID" LINE

BB

MBGR
(TYP)

"K3" 2119+06.63 POC =
"KID" 28+03.68 POT

CULVERT

EXIST CANAL

2110+00

2115+00

2120+00

2125+00

HST ROW

"K3" LINE

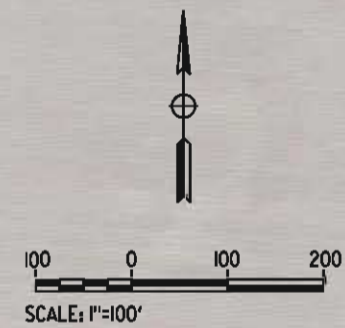
LIMIT OF DITCH
LIMIT OF DITCH
TOE OF FILL

EB

MATCH LINE - SEE CT1202

LIMIT OF DITCH
TOE OF FILL
LIMIT OF DITCH

RELOCATE
CANAL



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMB
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



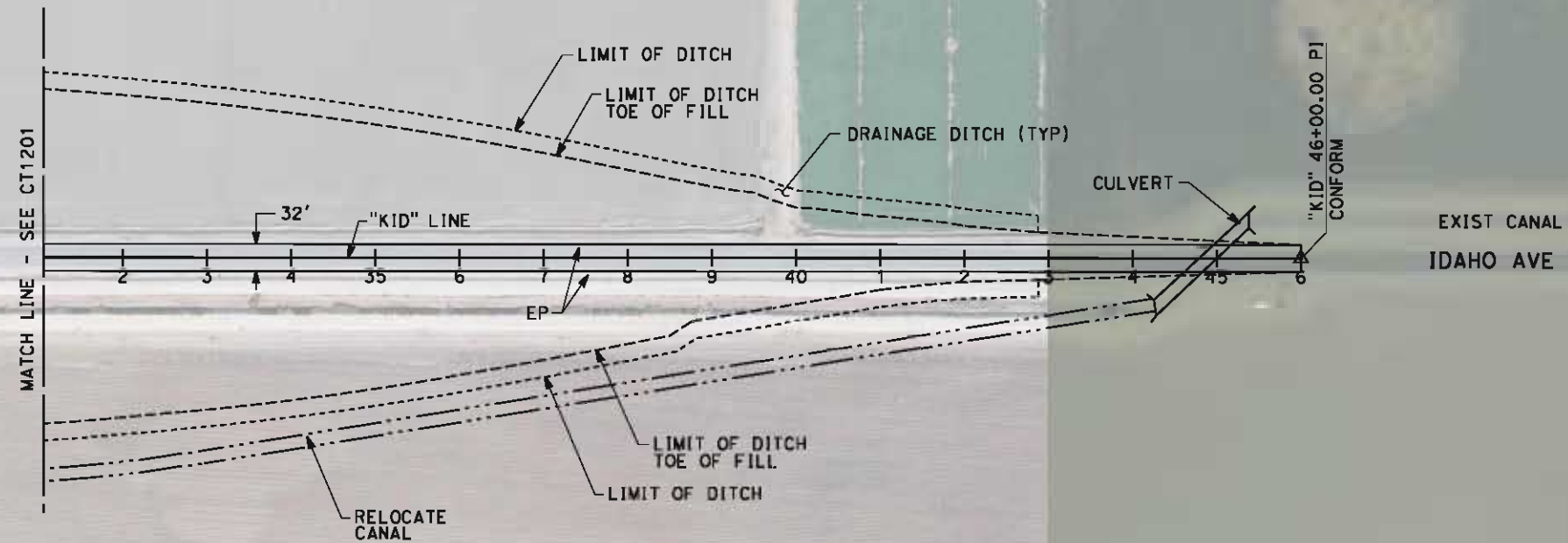
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
IDAHO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1201
SCALE AS SHOWN
SHEET NO. 2 OF 27

eron.sudhausen 5/17/2012 9:02:12 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K3\FB-CT-1202-K3.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89°43'34" E	3600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

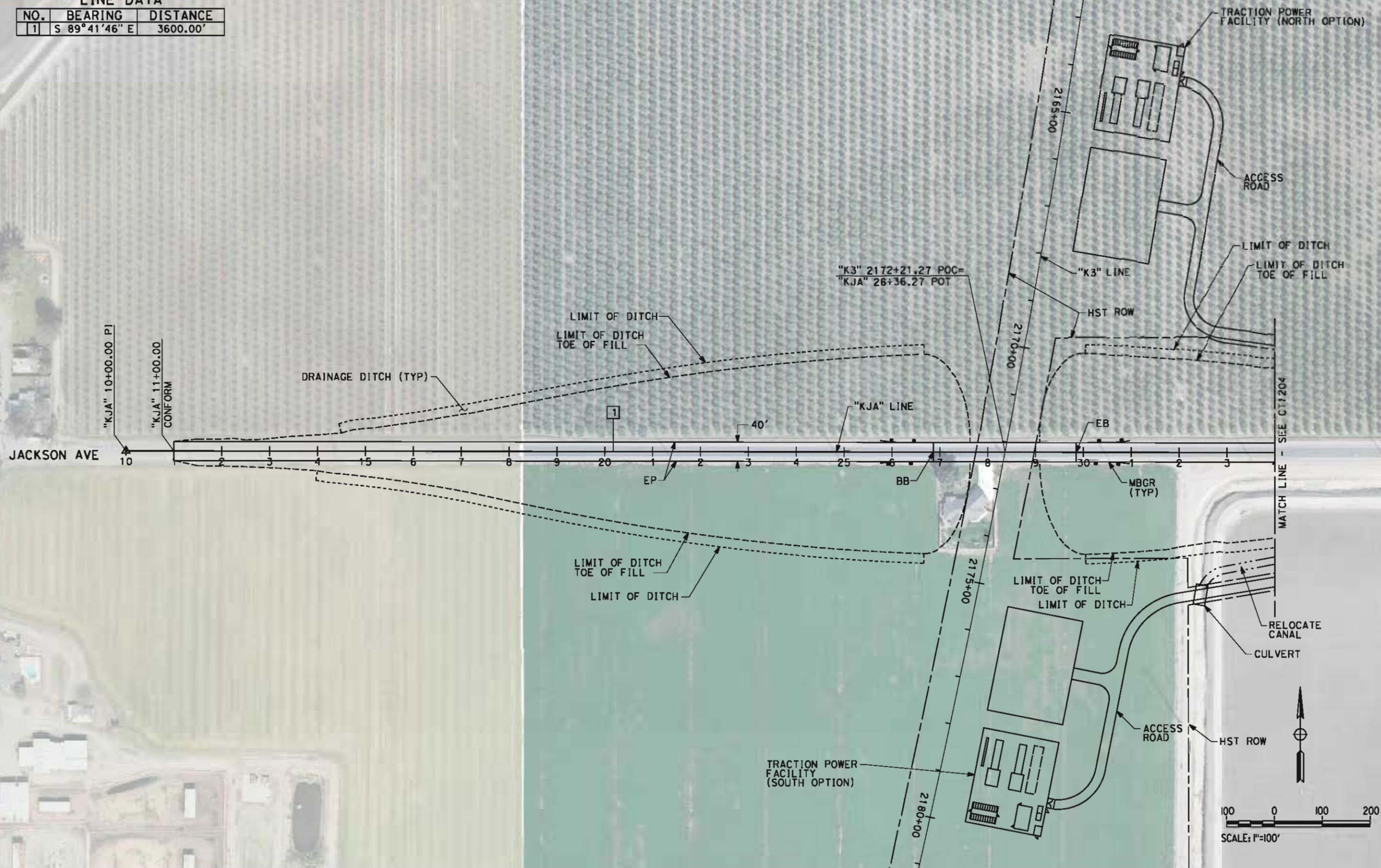


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
IDAHO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1202
SCALE AS SHOWN
SHEET NO. 3 OF 27

\\global\americas\labe\5-F\131000\131577\4 Internal Project Date\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K3\FB-CT-1203-K3.dgn 5/17/2012 9:02:19 PM

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89°41'46" E	3600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

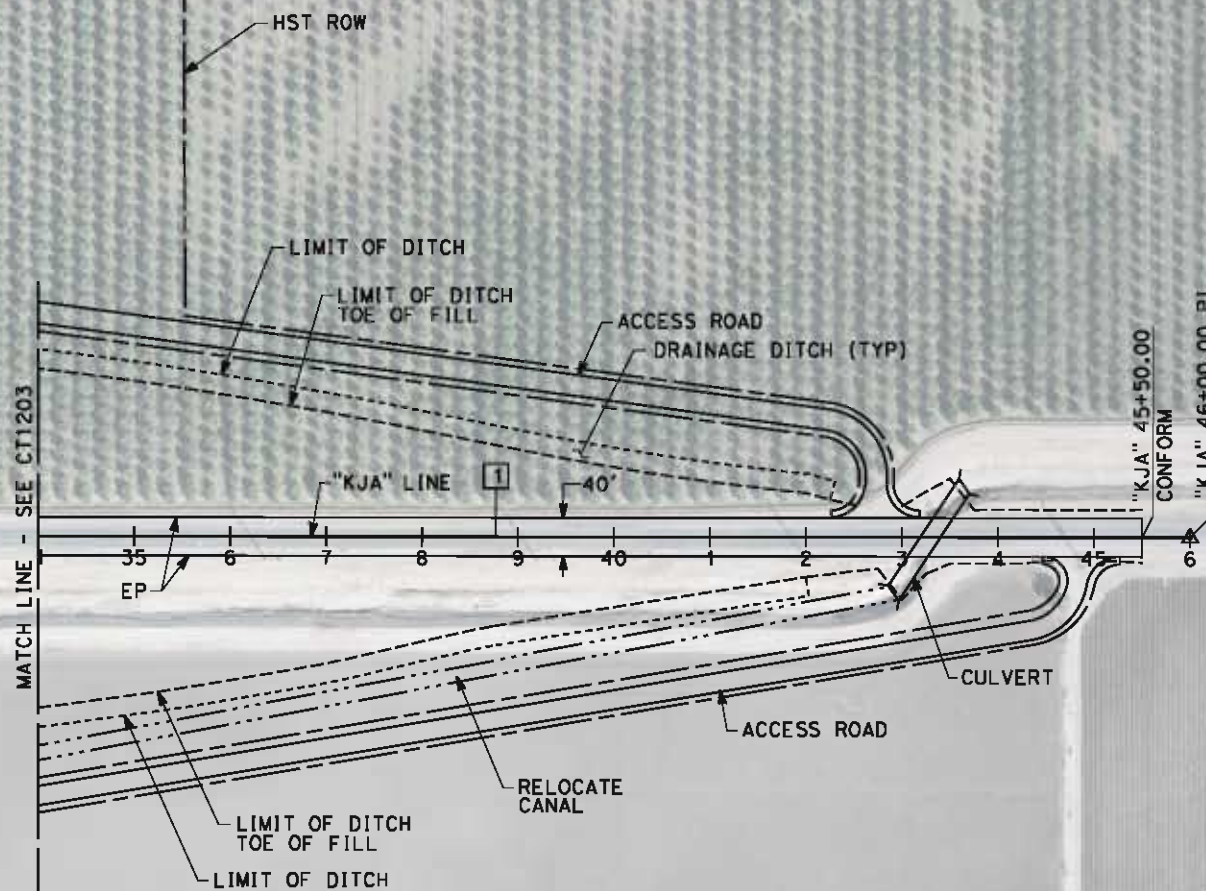


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
JACKSON AVE

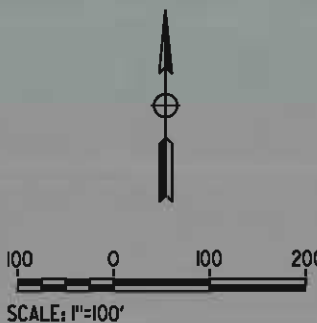
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1203
SCALE AS SHOWN
SHEET NO. 4 OF 27

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89° 41' 46" E	3600.00'



EXIST CANAL

JACKSON AVE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMM
IN CHARGE R. COFFIN
DATE 05/18/12

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

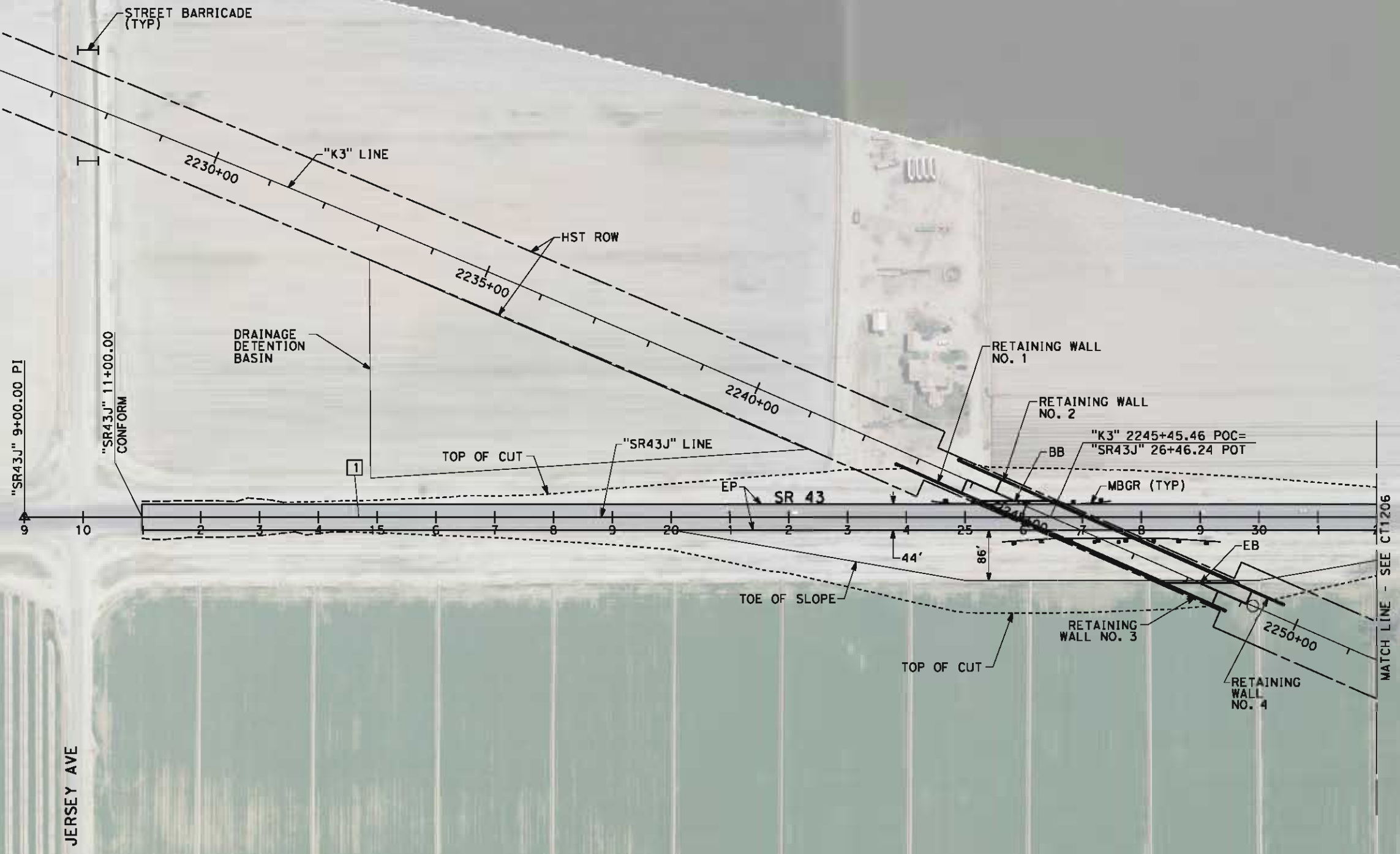


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
JACKSON AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1204
SCALE	AS SHOWN
SHEET NO.	5 OF 27

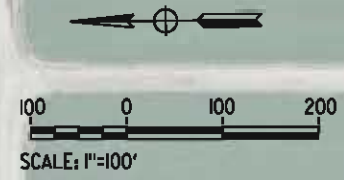
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LINE DATA		
NO.	BEARING	DISTANCE
1	S 00°27'06" W	3400.00'



RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	23.50' RT "K3" 2242+66.95	23.50' RT "K3" 2244+25.05	158'	30'
2	23.50' LT "K3" 2243+61.35	23.50' LT "K3" 2245+31.76	170'	30'
3	23.50' RT "K3" 2247+67.75	23.50' RT "K3" 2248+82.02	112'	30'
4	23.50' LT "K3" 2248+76.36	23.50' LT "K3" 2249+68.52	92'	30'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
STATE ROUTE 43 (JERSEY AVE)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1205
SCALE
AS SHOWN
SHEET NO.
6 OF 27

REV	DATE	BY	CHK	APP	DESCRIPTION

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



CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1206
SCALE	AS SHOWN
SHEET NO.	7 OF 27

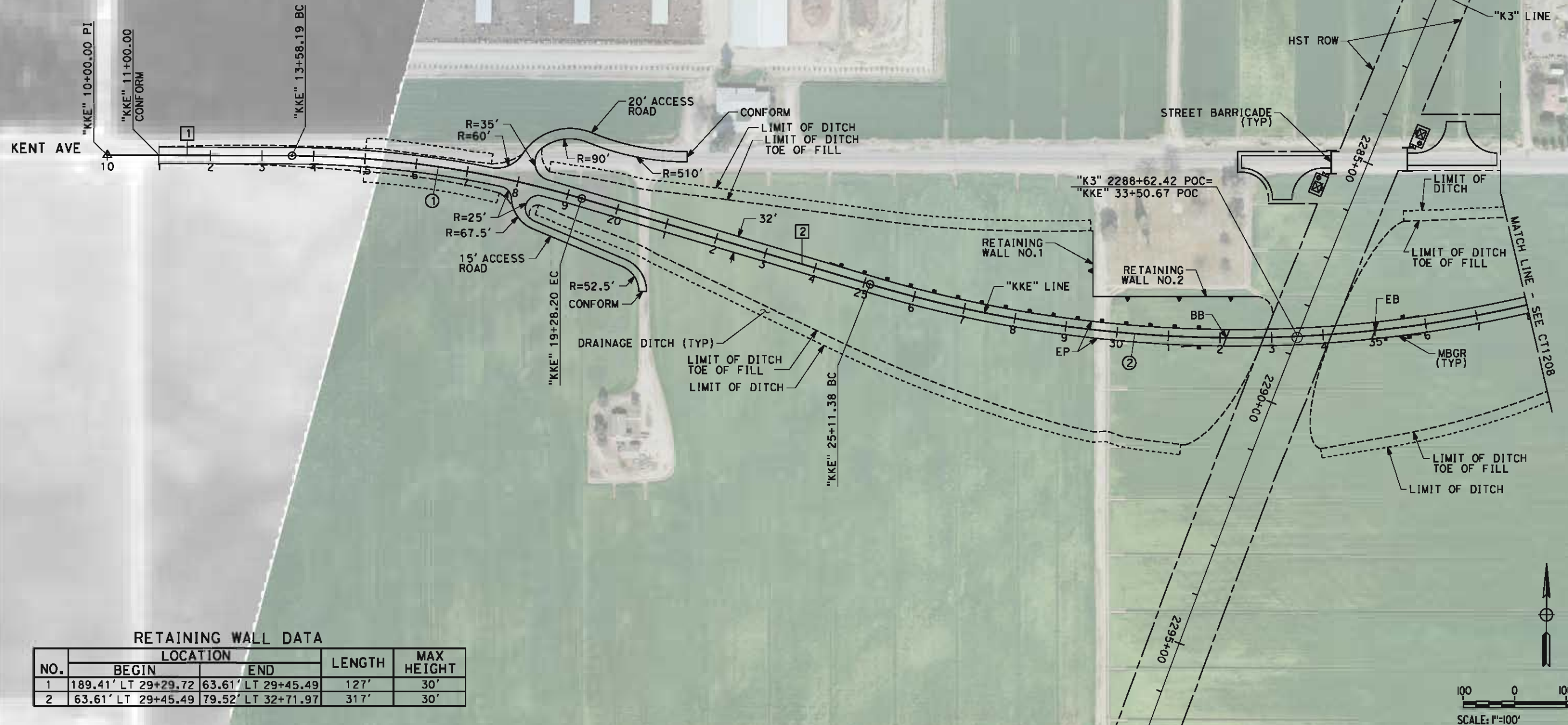
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LINE DATA

NO.	BEARING	DISTANCE
1	S 89°46'22" E	358.19'
2	S 73°26'35" E	583.18'

CURVE DATA

NO.	R	Δ	T	L	V
①	2000.00'	16°19'46"	286.95'	570.01'	45 MPH
②	2500.00'	40°19'05"	917.79'	1759.21'	45 MPH



RETAINING WALL DATA

NO.	BEGIN	END	LENGTH	MAX HEIGHT
1	189.41' LT 29+29.72	63.61' LT 29+45.49	127'	30'
2	63.61' LT 29+45.49	79.52' LT 32+71.97	317'	30'

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1207
SCALE
AS SHOWN
SHEET NO.
8 OF 27

eron.sudhausen 5/17/2012 9:02:47 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\K3\FB-CT-1208-K3.dgn

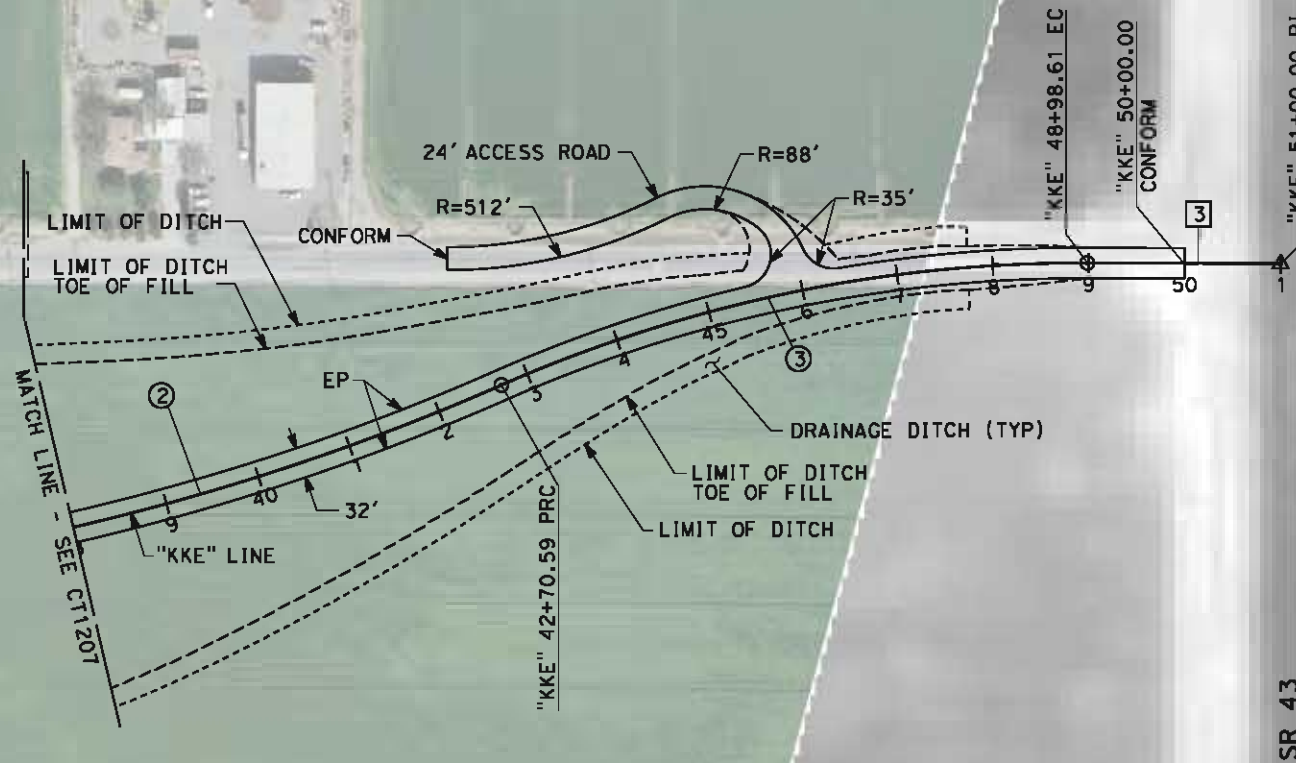
LINE DATA

NO.	BEARING	DISTANCE
3	S 89°46'22" E	201.39'

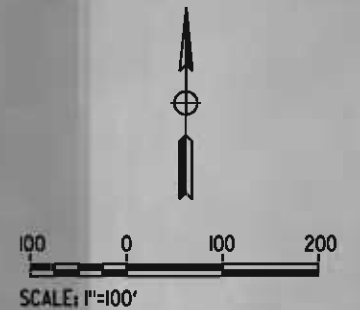
CURVE DATA

NO.	R	Δ	T	L	V
2	2500.00'	40°19'05"	917.79'	1759.21'	45 MPH
3	1500.00'	23°59'19"	318.68'	628.02'	45 MPH

KENT AVE



SR 43



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
KENT AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1208
SCALE AS SHOWN
SHEET NO. 9 OF 27

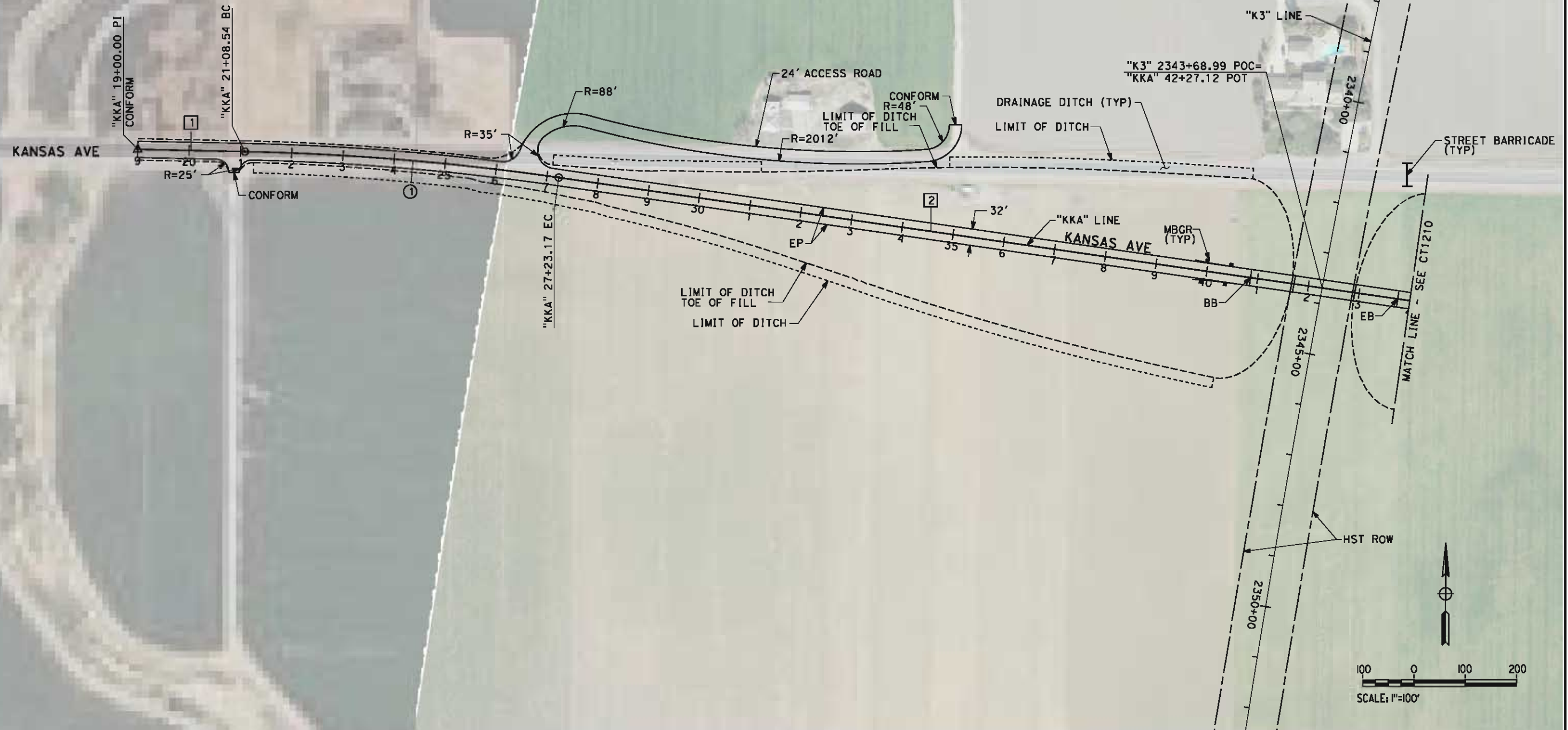
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LINE DATA

NO.	BEARING	DISTANCE
1	S 88°48'29" E	208.54'
2	S 81°45'53" E	2295.80'

CURVE DATA

NO.	R	Δ	T	L	V
(1)	5000.00'	07°02'35"	307.70'	614.63'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



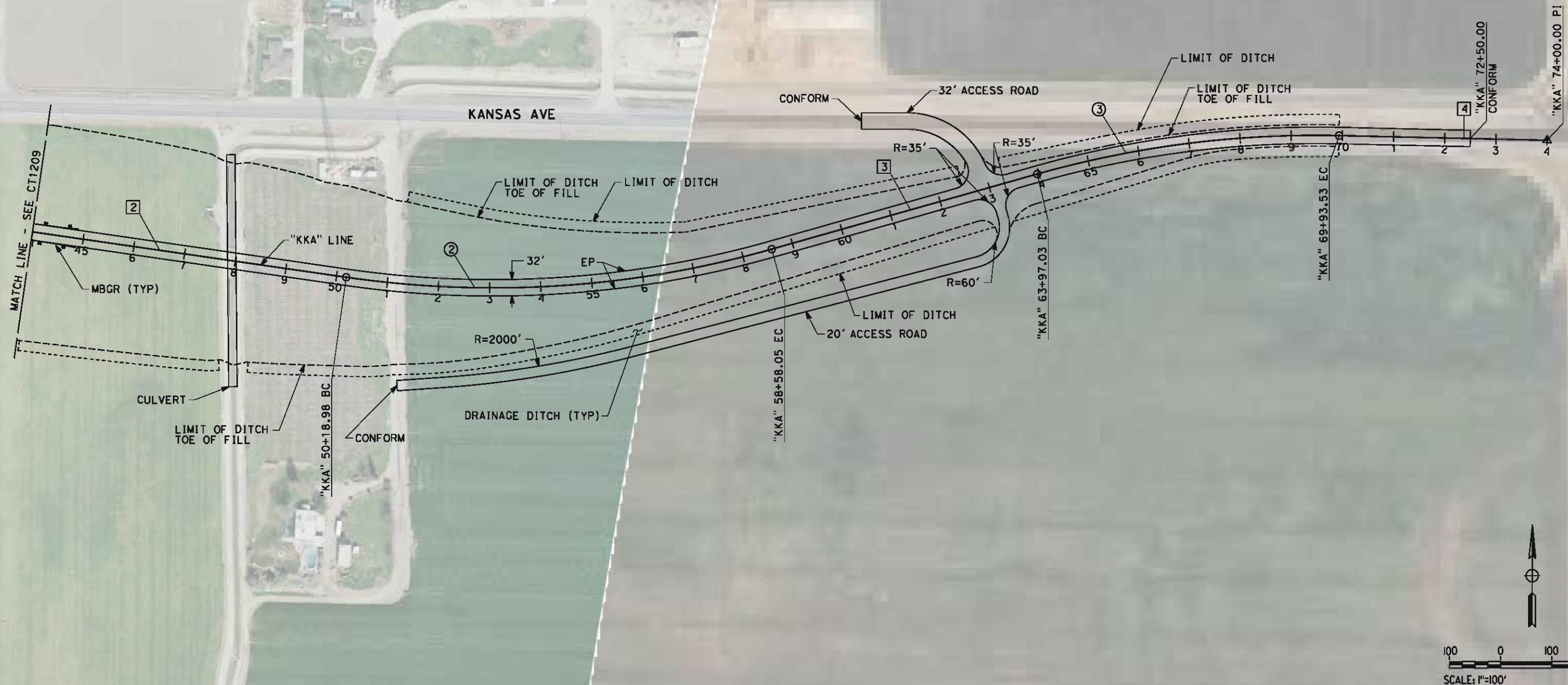
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
KANSAS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1209
SCALE AS SHOWN
SHEET NO. 10 OF 27

eron.sudhausen 5/17/2012 9:02:56 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K3\FB-CT-1210-K3.dgn

LINE DATA		
NO.	BEARING	DISTANCE
2	S 81°45'53" E	2295.80'
3	S 74°11'51" E	538.98'
4	S 88°42'51" E	406.47'

CURVE DATA					
NO.	R	Δ	T	L	V
②	2000.00'	24°02'16"	425.80'	839.07'	45 MPH
③	2000.00'	17°05'18"	300.48'	596.50'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
KANSAS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1210
SCALE AS SHOWN
SHEET NO. 11 OF 27

CURVE DATA					
NO.	R	Δ	T	L	V
(1)	750.00'	22°07'23"	146.62'	289.59'	45 MPH

RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	74.36' LT 14+38.46	183.51' LT 20+08.58	665'	30'
2	21.00' RT 13+20.11	197.55' RT 20+43.27	770'	30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAHM
IN CHARGE R. COFFIN
DATE 05/18/12

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

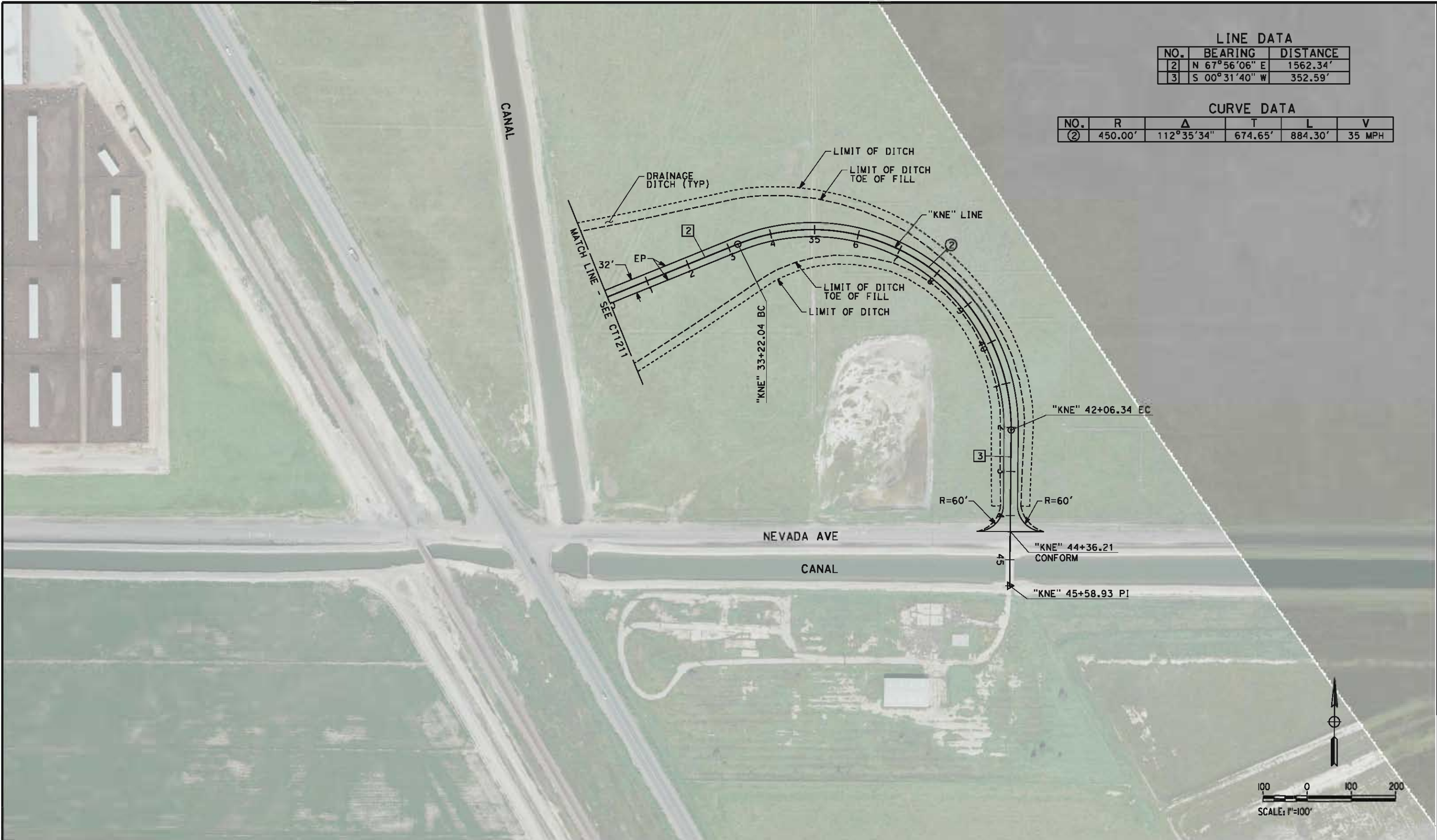


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
NEVADA AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1211
SCALE	AS SHOWN
SHEET NO.	12 OF 27

\\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K3\FB-CT-1212-K3.dgn 5/17/2012 9:03:08 PM



LINE DATA		
NO.	BEARING	DISTANCE
2	N 67°56'06" E	1562.34'
3	S 00°31'40" W	352.59'

CURVE DATA					
NO.	R	Δ	T	L	V
②	450.00'	112°35'34"	674.65'	884.30'	35 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



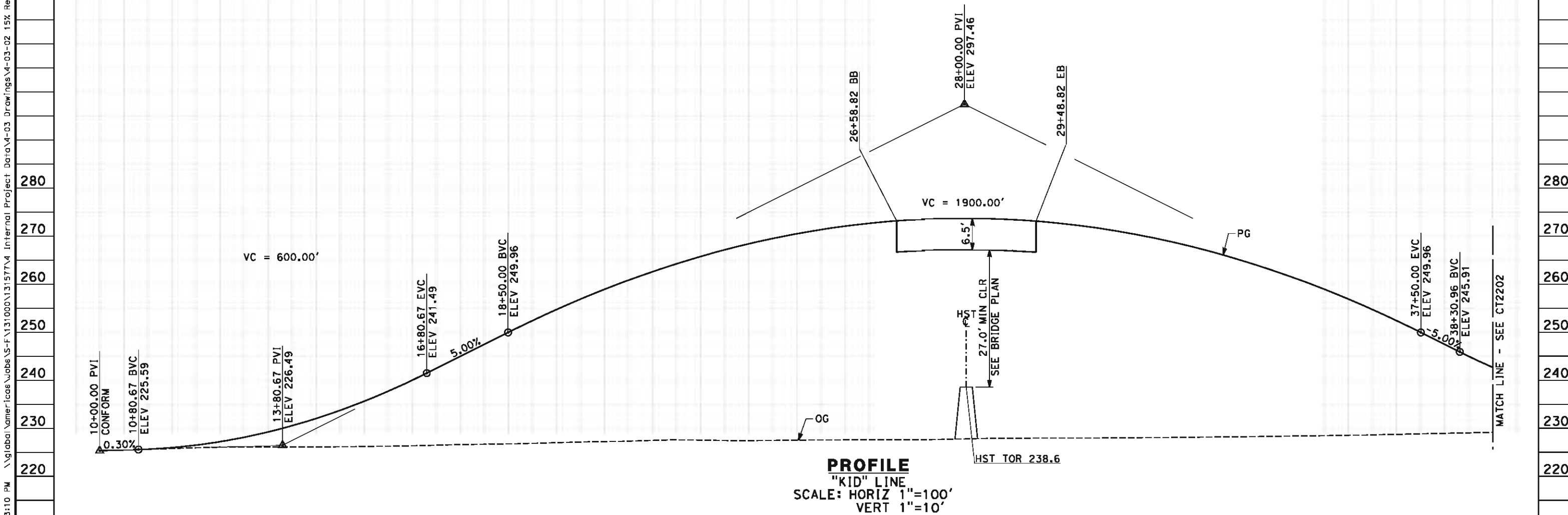
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
NEVADA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1212
SCALE AS SHOWN
SHEET NO. 13 OF 27

eron.sudhausen 5/17/2012 9:03:10 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\Highway\K3\FB-CT-2201-K3.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

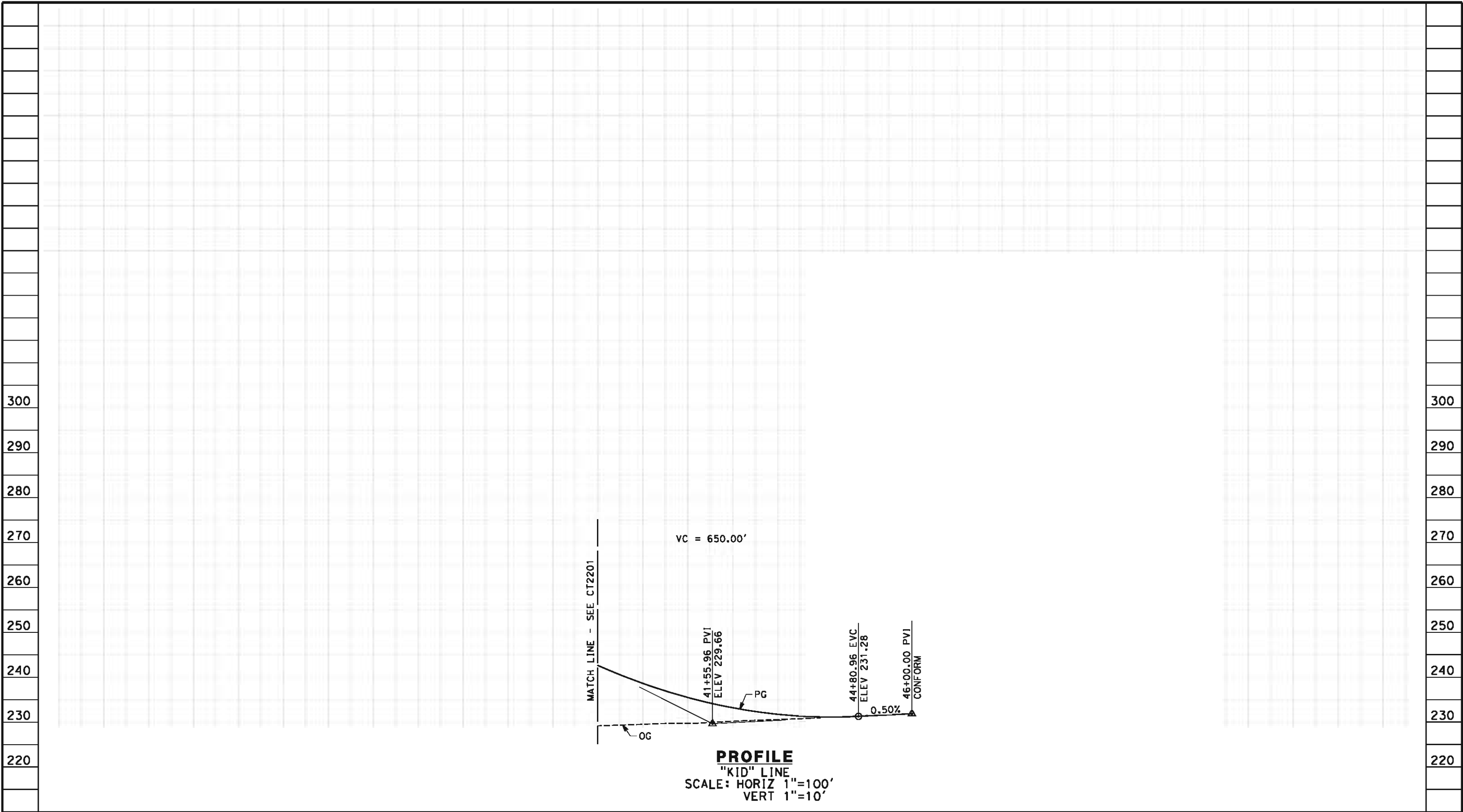
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2201
SCALE
AS SHOWN
SHEET NO.
14 OF 27

eron.sudhausen 5/17/2012 9:03:11 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K3\FB-CT-2202-K3.dgn



STATION		9	40	1	2	3	4	45	6	TOTAL
CY	Exc									
	Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

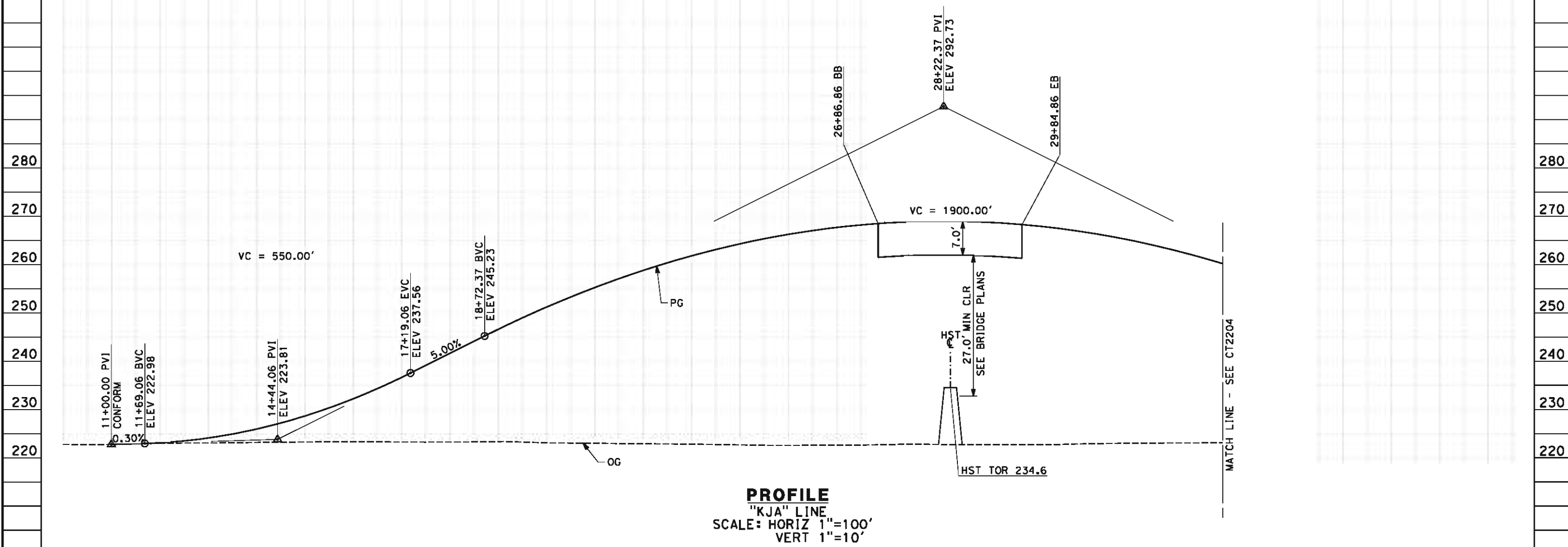


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
IDAHO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2202
SCALE AS SHOWN
SHEET NO. 15 OF 27

eron.sudhausen 5/17/2012 9:03:12 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K3\FB-CT-2203-K3.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	TOTAL
Exc																										
Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

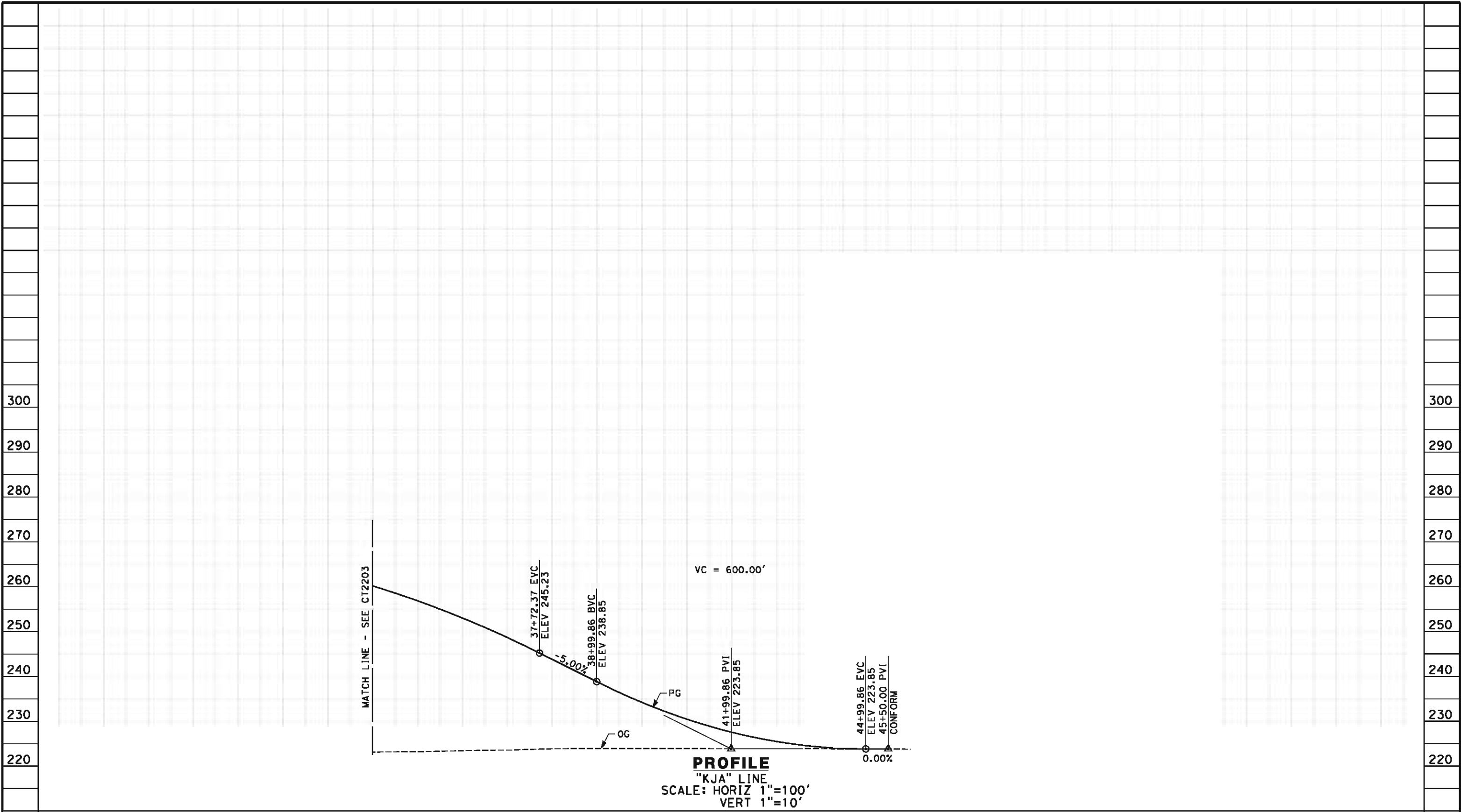
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2203
SCALE
AS SHOWN
SHEET NO.
16 OF 27

eron.sudhausen 5/17/2012 9:03:13 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K3\FB-CT-2204-K3.dgn



STATION		4	35	6	7	8	9	40	1	2	3	4	45	6	TOTAL
CY	Exc														
	Emb														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

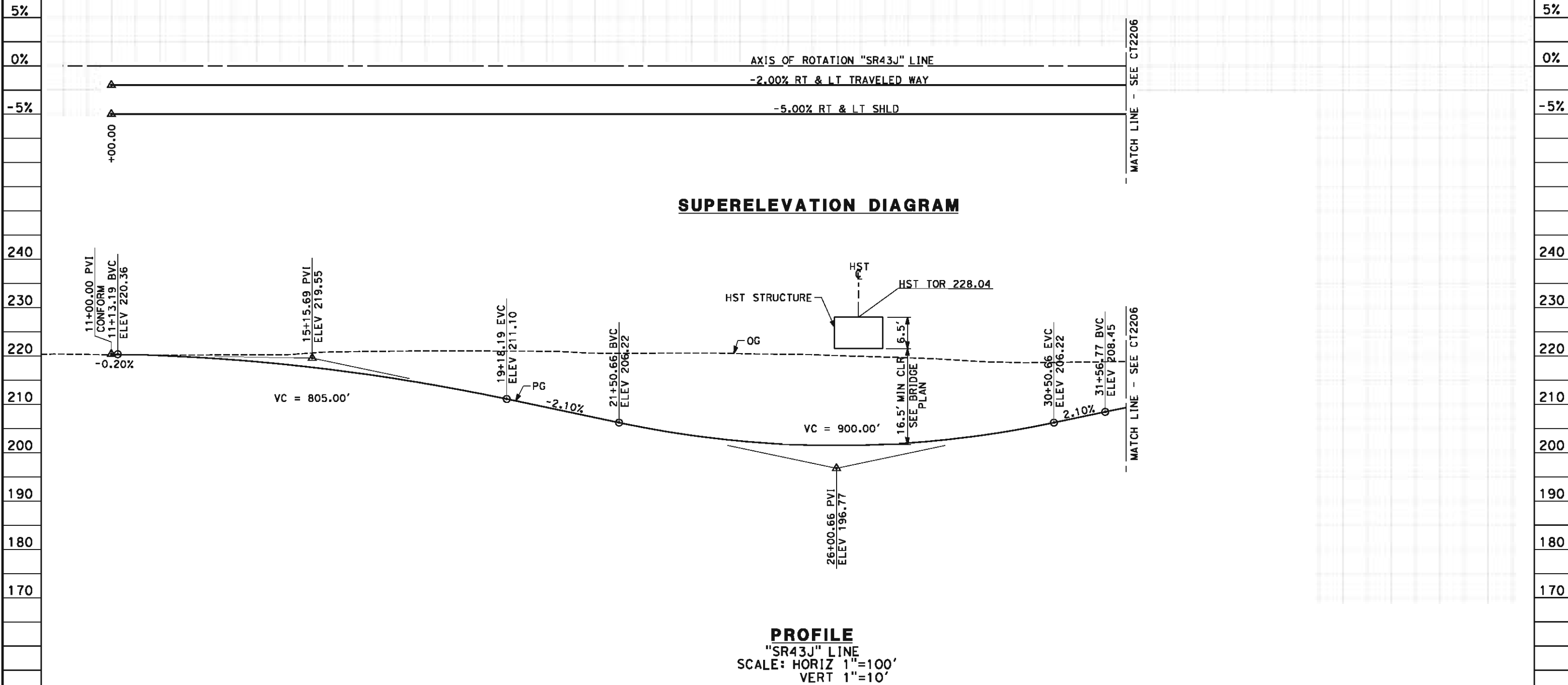


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
JACKSON AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2204
SCALE AS SHOWN
SHEET NO. 17 OF 27

eron.sudhausen 5/17/2012 9:03:14 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\Highway\K3\FB-CT-2205-K3.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY
 - 2. VERTICAL DESIGN SPEED = 70 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	TOTAL
Exc																								
Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

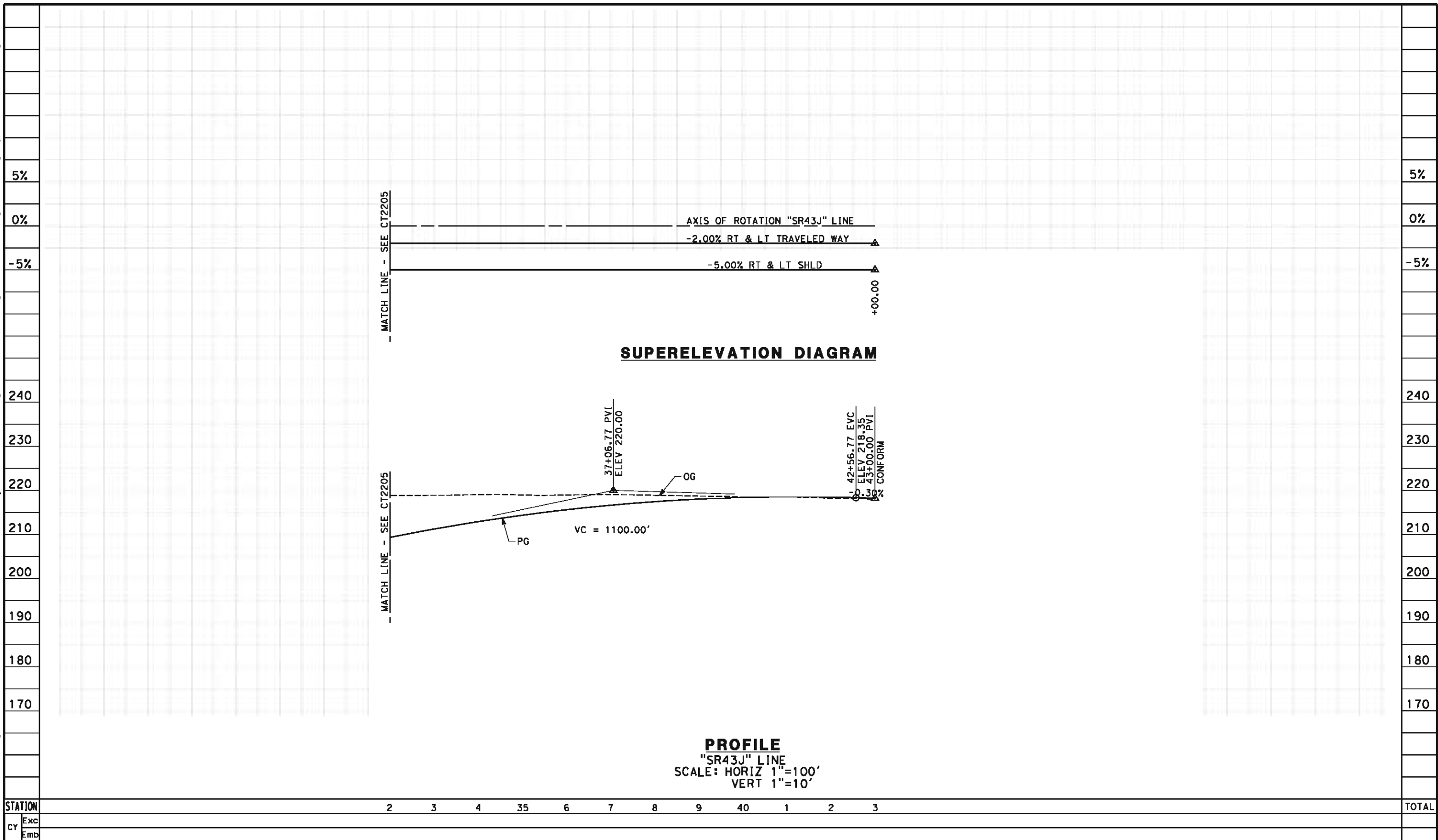
RECORD SET 15%
DESIGN SUBMISSION



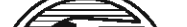
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 (JERSEY AVE)

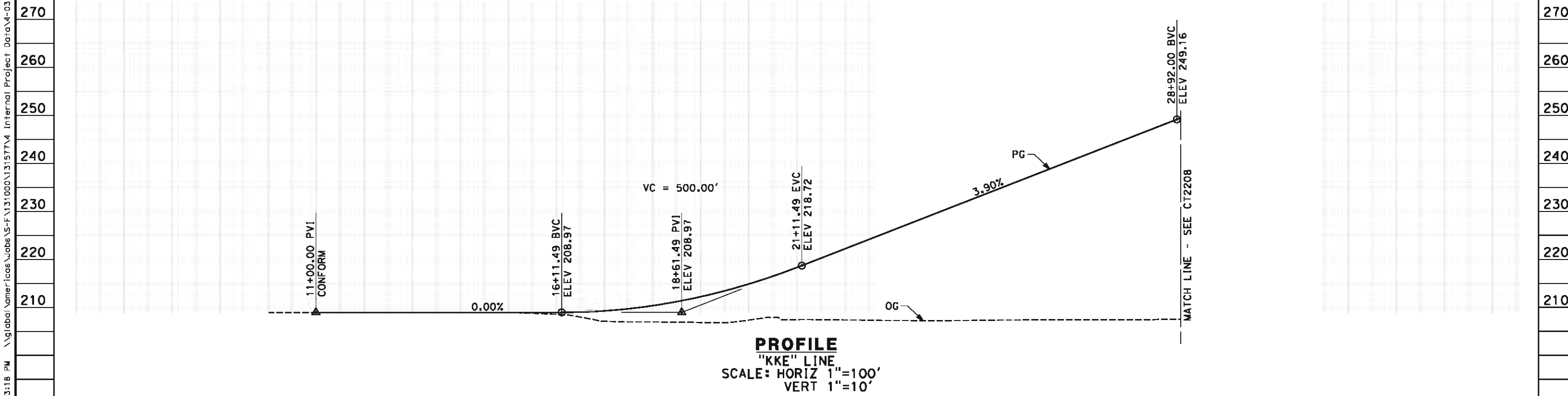
CONTRACT NO. HSR 06-0003
DRAWING NO. CT2205
SCALE AS SHOWN
SHEET NO. 18 OF 27



						DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWAHEH SUBSECTION ALIGNMENT K3 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (JERSEY AVE)	CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN	DRAWING NO. CT2206					
					CHECKED BY M. BAMM	SCALE AS SHOWN					
					IN CHARGE R. COFFIN	SHEET NO. 19 OF 27					
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12					

eron.sudhausen 5/17/2012 9:03:18 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K3\FB-CT-2207-K3.dgn

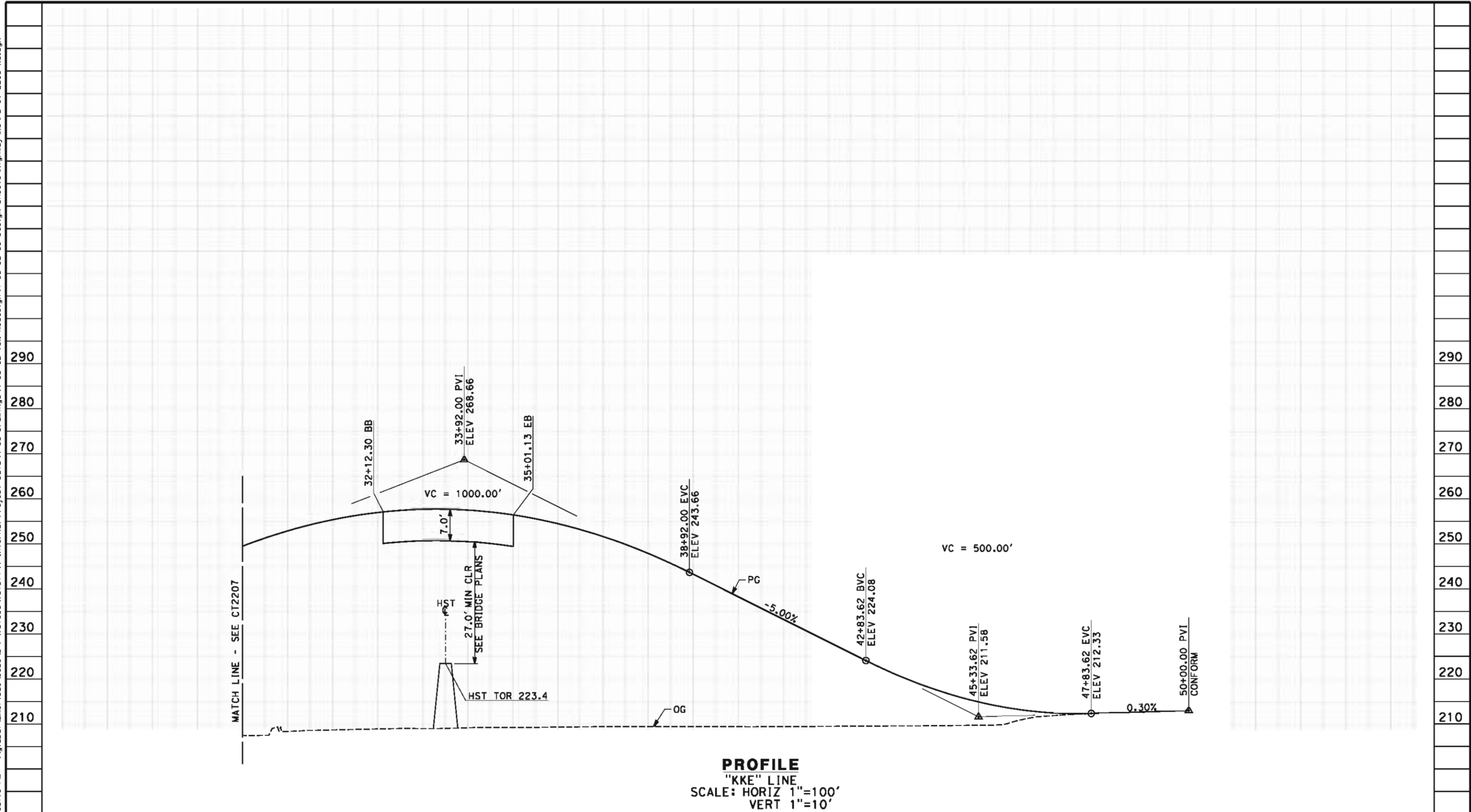
- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	TOTAL
Exc																					
Emb																					

						DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWEAH SUBSECTION ALIGNMENT K3 GRADE SEPARATION PROFILE KENT AVE	CONTRACT NO. HSR 06-0003 DRAWING NO. CT2207 SCALE AS SHOWN SHEET NO. 20 OF 27
						DRAWN BY E. SUDHAUSEN				
						CHECKED BY M. BMM				
						IN CHARGE R. COFFIN DATE 05/18/12				
REV	DATE	BY	CHK	APP	DESCRIPTION					

eron-sudhausen 5/17/2012 9:03:19 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K3\FB-CT-2208-K3.dgn



STATION		9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	TOTAL
CY	Exc																								
	Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

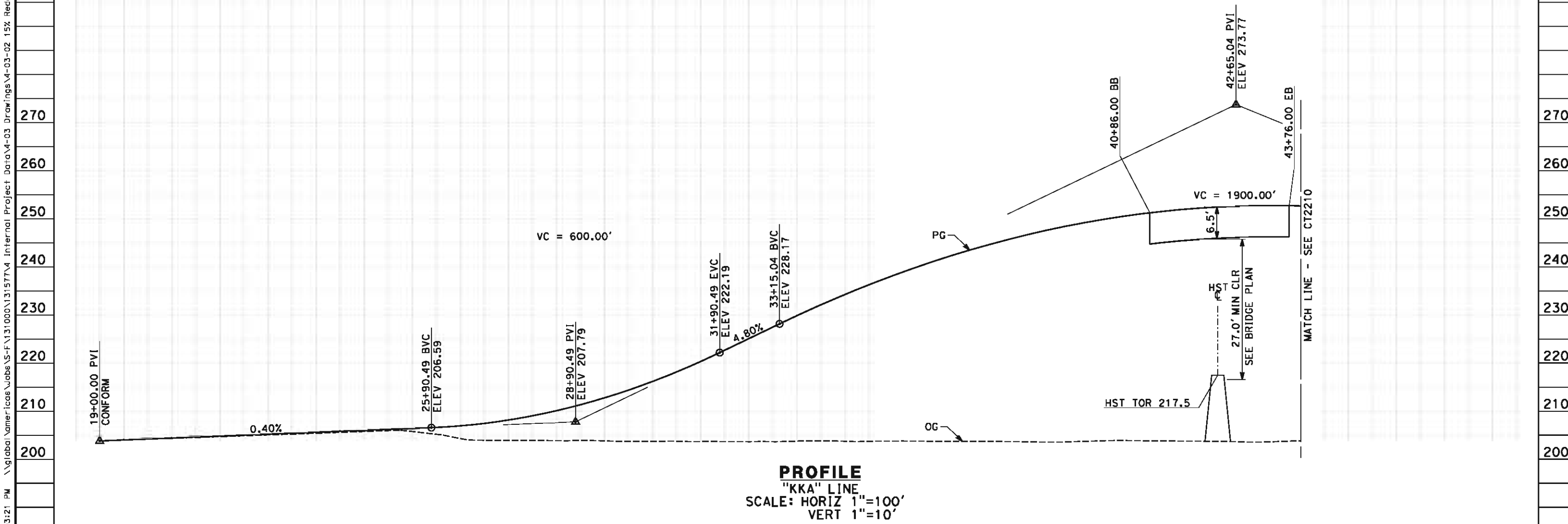


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
KENT AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2208
SCALE AS SHOWN
SHEET NO. 21 OF 27

eron.sudhausen 5/17/2012 9:03:21 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\Highway\K3\FB-CT-2209-K3.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	TOTAL
Exc																											
Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

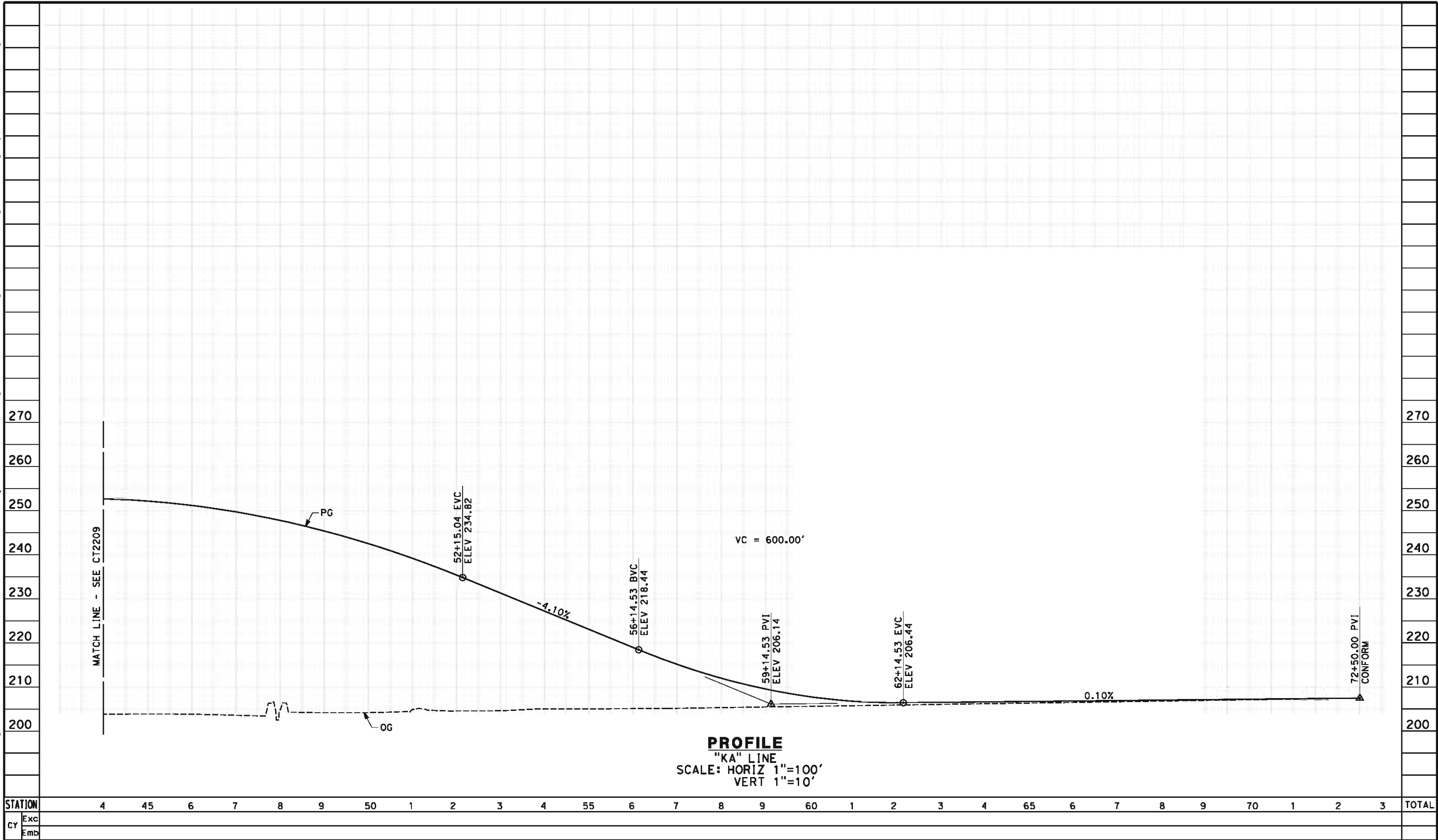
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2209
SCALE
AS SHOWN
SHEET NO.
22 OF 27

eron.sudhausen 5/17/2012 9:03:22 PM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K3\FB-CT-2210-K3.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

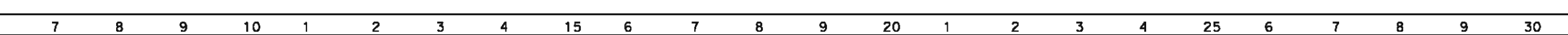
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2210
SCALE
AS SHOWN
SHEET NO.
23 OF 27

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY
4. VERTICAL DESIGN SPEED = 45 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



						DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWEAH SUBSECTION ALIGNMENT K3 GRADE SEPARATION PROFILE NEVADA AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN				DRAWING NO. CT2211
						CHECKED BY M. BAMM				SCALE AS SHOWN
						IN CHARGE R. COFFIN				SHEET NO. 24 OF 27
						DATE 05/18/12				
REV	DATE	BY	CHK	APP	DESCRIPTION					

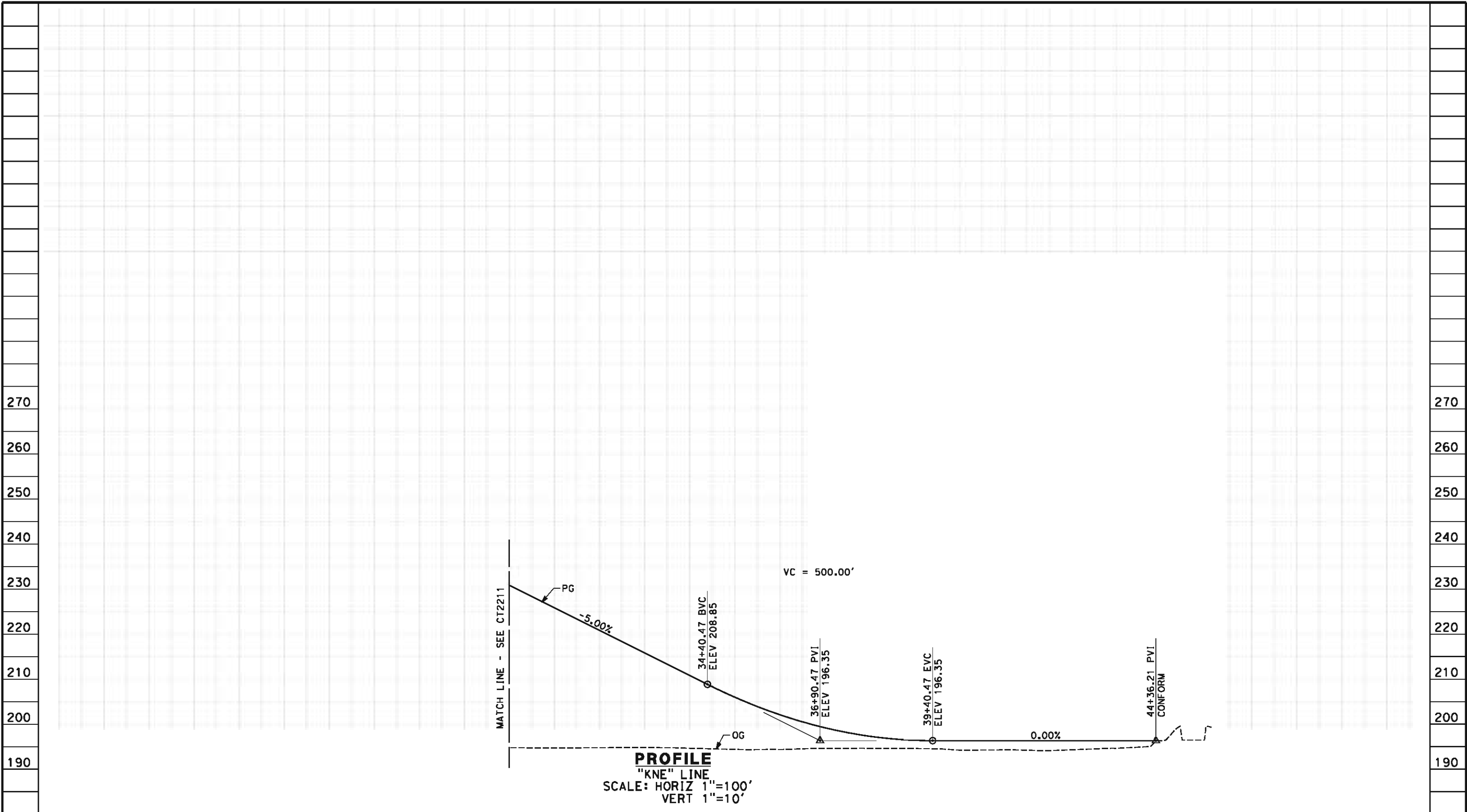
**RECORD SET 15X
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
NEVADA AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2211
SCALE	AS SHOWN
SHEET NO.	24 OF 27

eron.sudhausen 5/17/2012 9:03:24 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K3\FB-CT-2212-K3.dgn



STATION		30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	TOTAL
CY	Exc																	
	Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



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

KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
NEVADA AVE

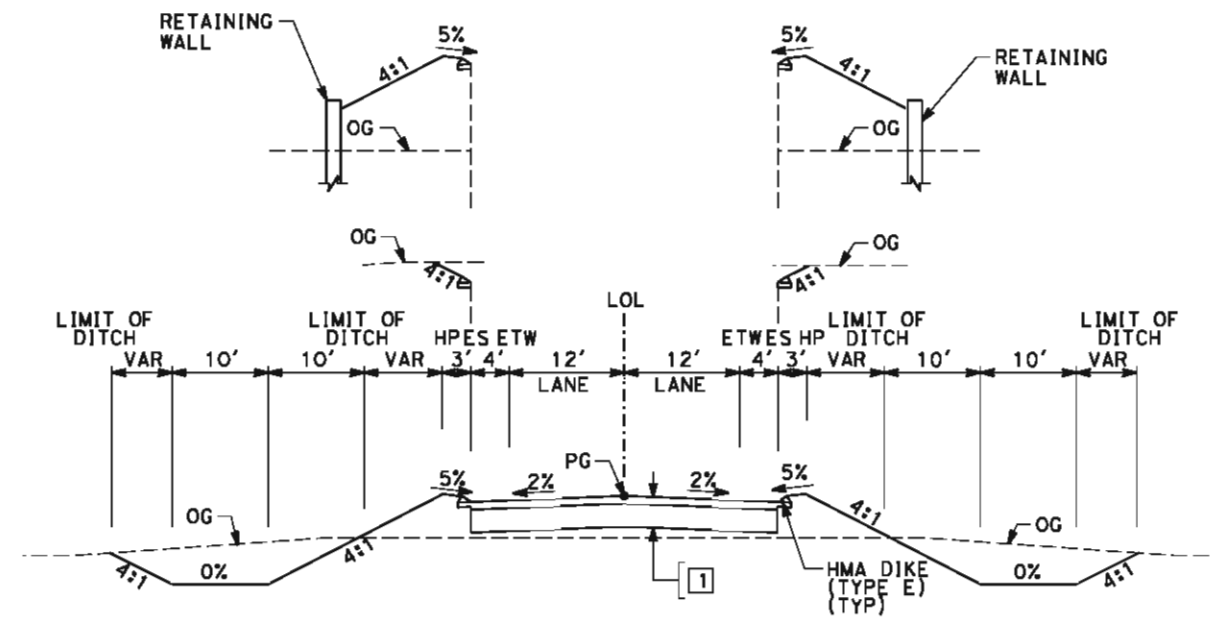
CONTRACT NO. HSR 06-0003
DRAWING NO. CT2212
SCALE AS SHOWN
SHEET NO. 25 OF 27

eron.sudhausen 5/17/2012 9:03:25 PM \\global\americos\jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02-05 Redesign\4-03-02 15% Redesign\4-03-02-05 Design Sheets Vhighway\K3\FB-CT-3220-K3.dgn

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

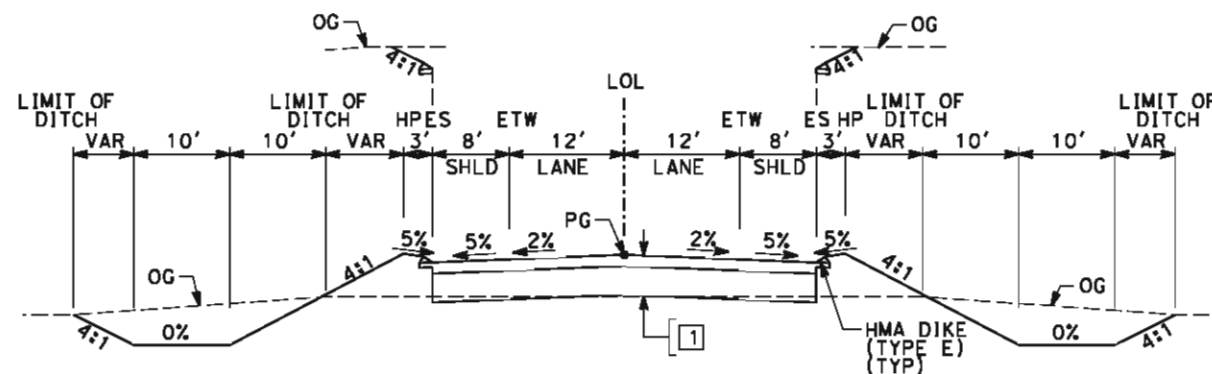
STRUCTURAL SECTIONS TYPICAL ROADWAY

- 1—0.50' HMA (TYPE A)
1.00' CL2 AB
- 2—0.65' HMA (TYPE A)
1.75' CL2 AB



SECTION A

"KID"	10+00.00	TO	26+58.82
"KID"	29+48.82	TO	46+00.00
"KKE"	11+00.00	TO	32+12.30
"KKE"	35+01.13	TO	50+00.00
"KKA"	19+00.00	TO	40+86.00
"KKA"	43+76.00	TO	72+50.00
"KNE"	7+00.00	TO	20+88.85
"KNE"	26+48.85	TO	44+36.21

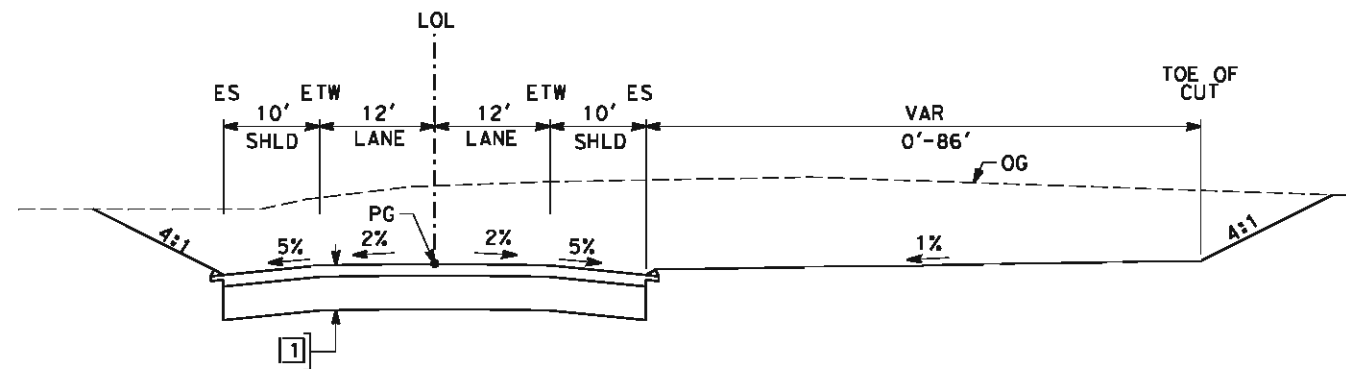


SECTION B

"KJA" 11+00.00 TO 26+86.86
"KJA" 29+84.86 TO 45+50.00

					DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWAHEH SUBSECTION ALIGNMENT K3 ROADWAY / GRADE SEPARATION TYPICAL CROSS SECTIONS	CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN				DRAWING NO. CT3220
					CHECKED BY M. BMM				SCALE NO SCALE
					IN CHARGE R. COFFIN				SHEET NO. 26 OF 27
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12			

eron.sudhausen 5/17/2012 9:03:26 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\K3\B-CT-3221-K3.dgn



SECTION C

"SR43J" 11+00.00 TO 43+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

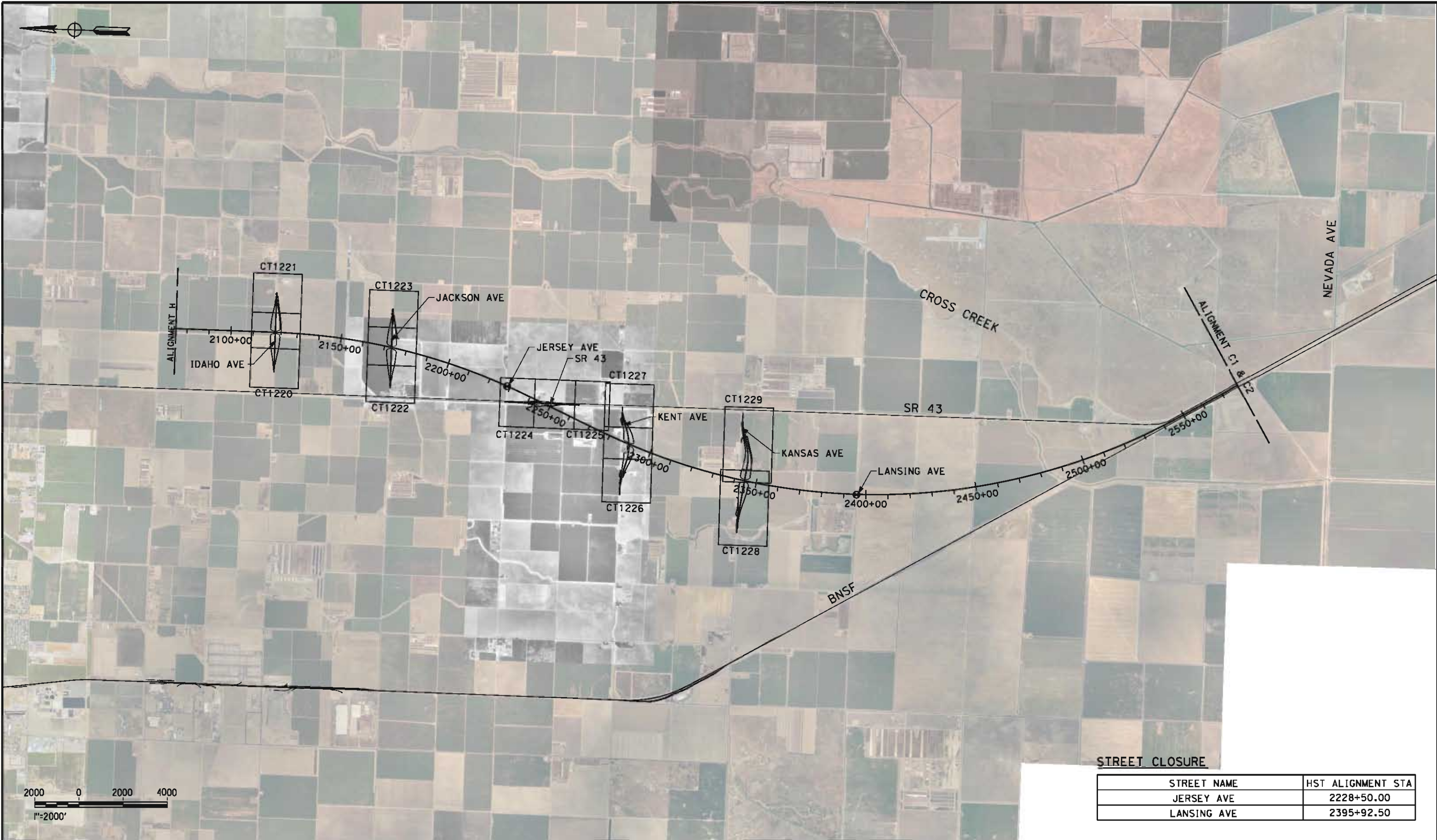
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K3
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3221
SCALE NO SCALE
SHEET NO. 27 OF 27

\\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\K4\FB-CB-0065-K4.dgn 5/17/2012 9:14:05 PM eran.sudhausen



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA
JERSEY AVE	2228+50.00
LANSING AVE	2395+92.50

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

KAWEAH SUBSECTION
ALIGNMENT K4
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0065
SCALE AS SHOWN
SHEET NO. 1 OF 23

eran-sudhausen 5/21/2012 3:15:15 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-1220-K4.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89°43'34" E	3600.00'

IDAHO AVE

"KID" 10+00.00 PI
CONFORM

DRAINAGE DITCH (TYP)

LIMIT OF DITCH
LIMIT OF DITCH
TOE OF FILL

EP

LIMIT OF DITCH
TOE OF FILL

LIMIT OF DITCH

32'

"KID" LINE

MBGR
(TYP)

CULVERT

EXIST CANAL

2125+00

2120+00

2115+00

2110+00

HST ROW

"K4" LINE

"K4" 2120+05.63 POC =
"KID" 28+03.68 POT

LIMIT OF DITCH

LIMIT OF DITCH
TOE OF FILL

EB

MATCH LINE - SEE CT1221

LIMIT OF DITCH
TOE OF FILL

LIMIT OF DITCH

RELOCATE
CANAL

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMB
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



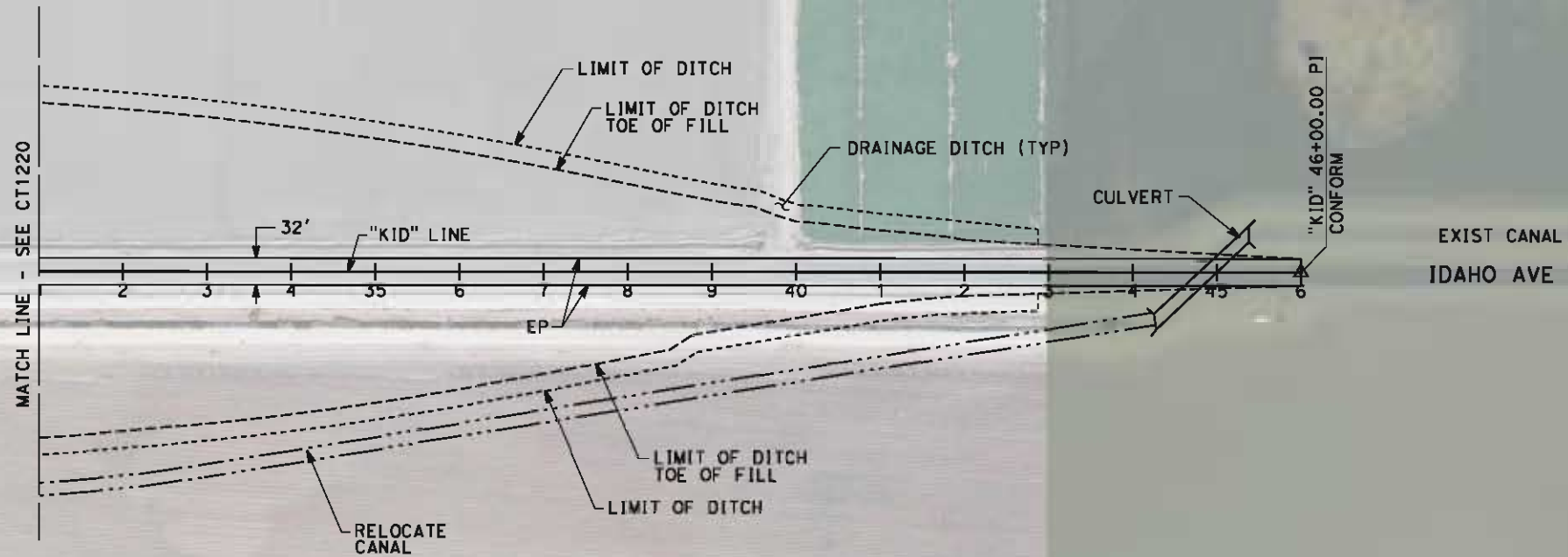
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
IDAHO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1220
SCALE AS SHOWN
SHEET NO. 2 OF 23

eron.sudhausen 5/21/2012 3:15:21 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-1221-K4.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89°43'34" E	3600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

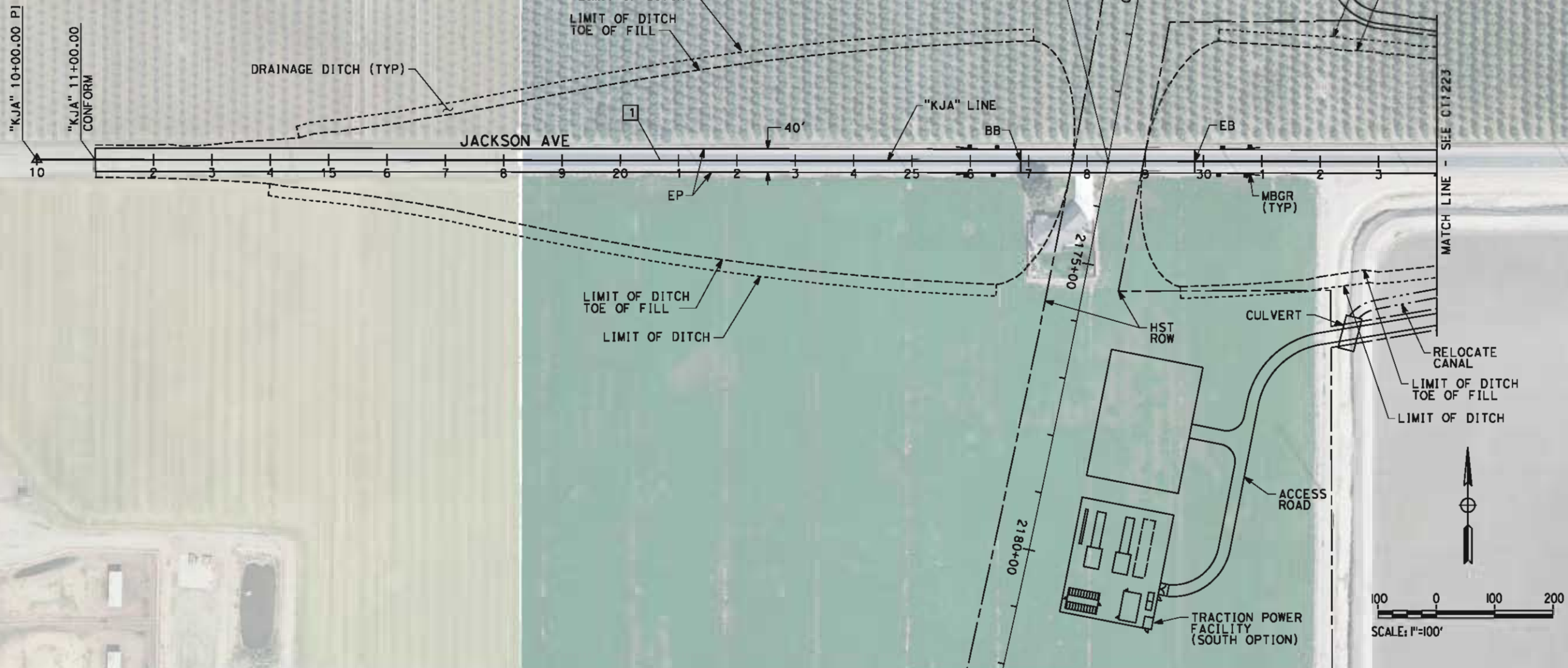


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
IDAHO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1221
SCALE AS SHOWN
SHEET NO. 3 OF 23

\\global\america\cas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-1222-K4.dgn 5/21/2012 3:15:47 PM

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89°41'46" E	3600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BANN
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

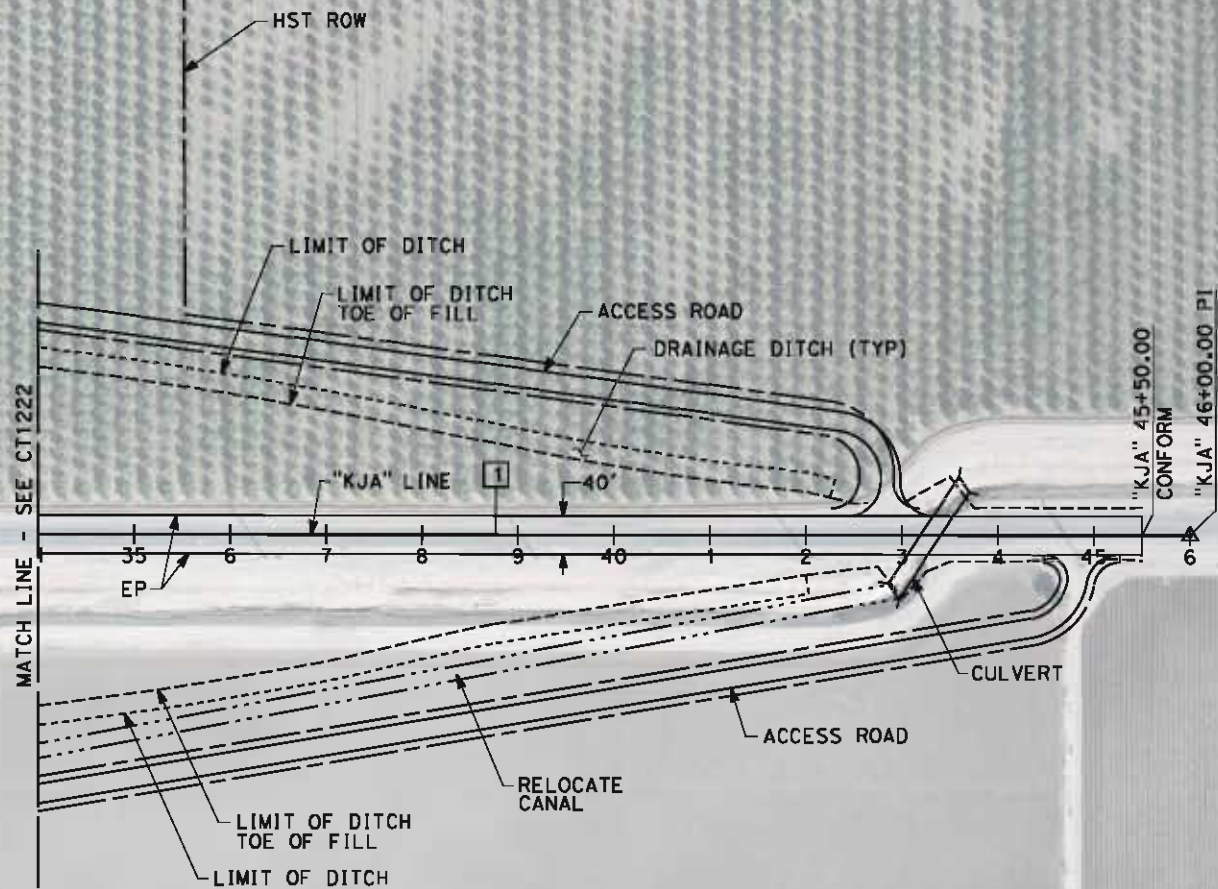
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
JACKSON AVE

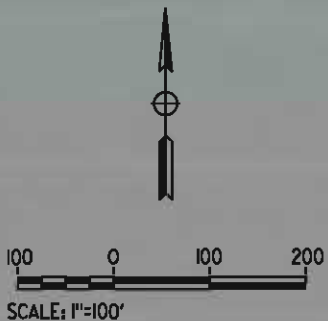
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1222
SCALE AS SHOWN
SHEET NO. 4 OF 23

eron.sudhausen 5/21/2012 3:15:54 PM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-1223-K4.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89°41'46" E	3600.00'



EXIST CANAL
JACKSON AVE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

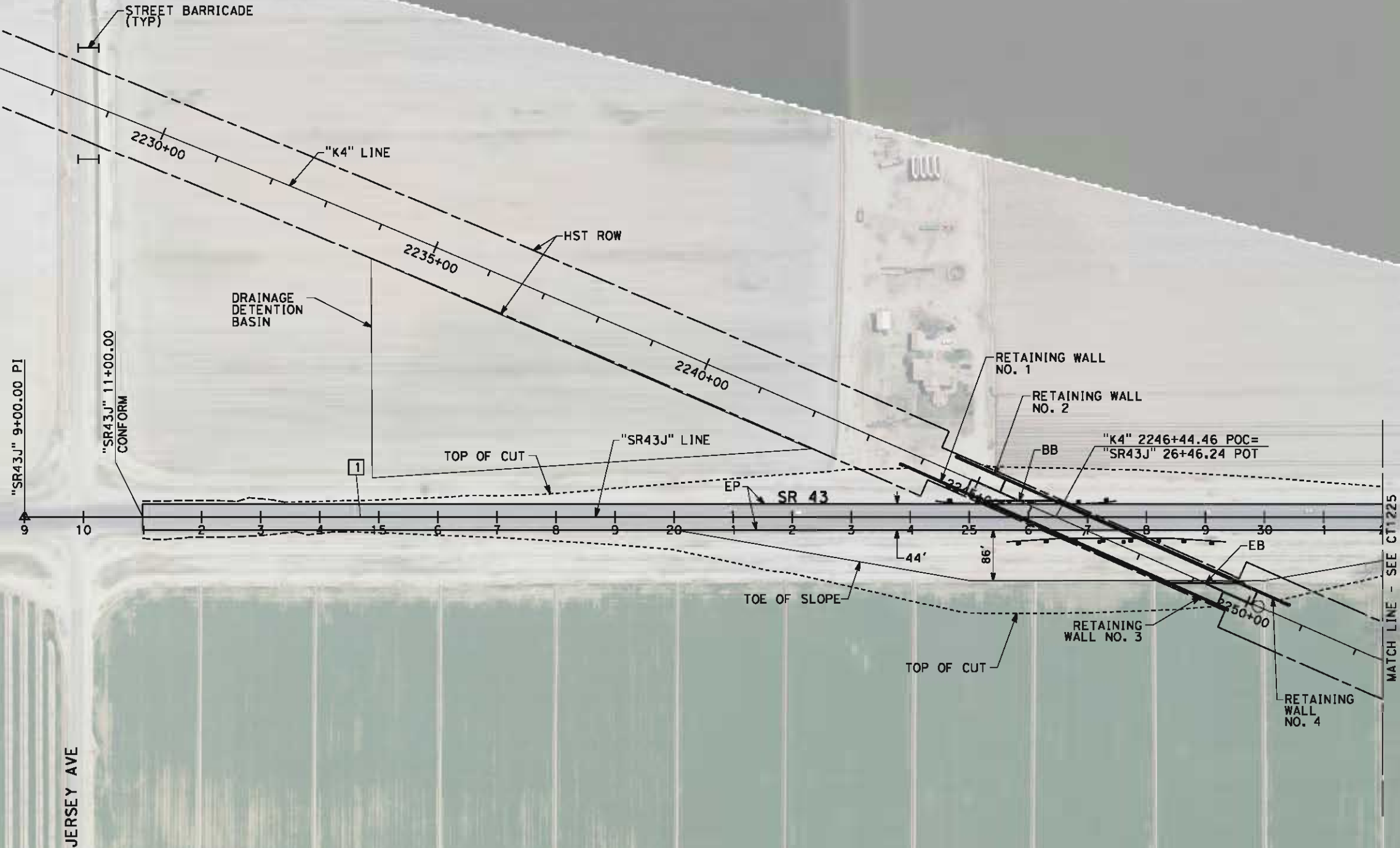


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
JACKSON AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1223
SCALE AS SHOWN
SHEET NO. 5 OF 23

eron.sudhausen 5/18/2012 10:33:55 AM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-1224-K4.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S 00°27'06" W	3400.00'



RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	23.50' RT "K4" 2243+65.95	23.50' RT "K4" 2245+23.98	158'	30'
2	23.50' LT "K4" 2244+60.35	23.50' LT "K4" 2246+30.29	170'	30'
3	23.50' RT "K4" 2248+68.76	23.50' RT "K4" 2249+83.49	115'	30'
4	23.50' LT "K4" 2249+75.36	23.50' LT "K4" 2250+70.86	96'	30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

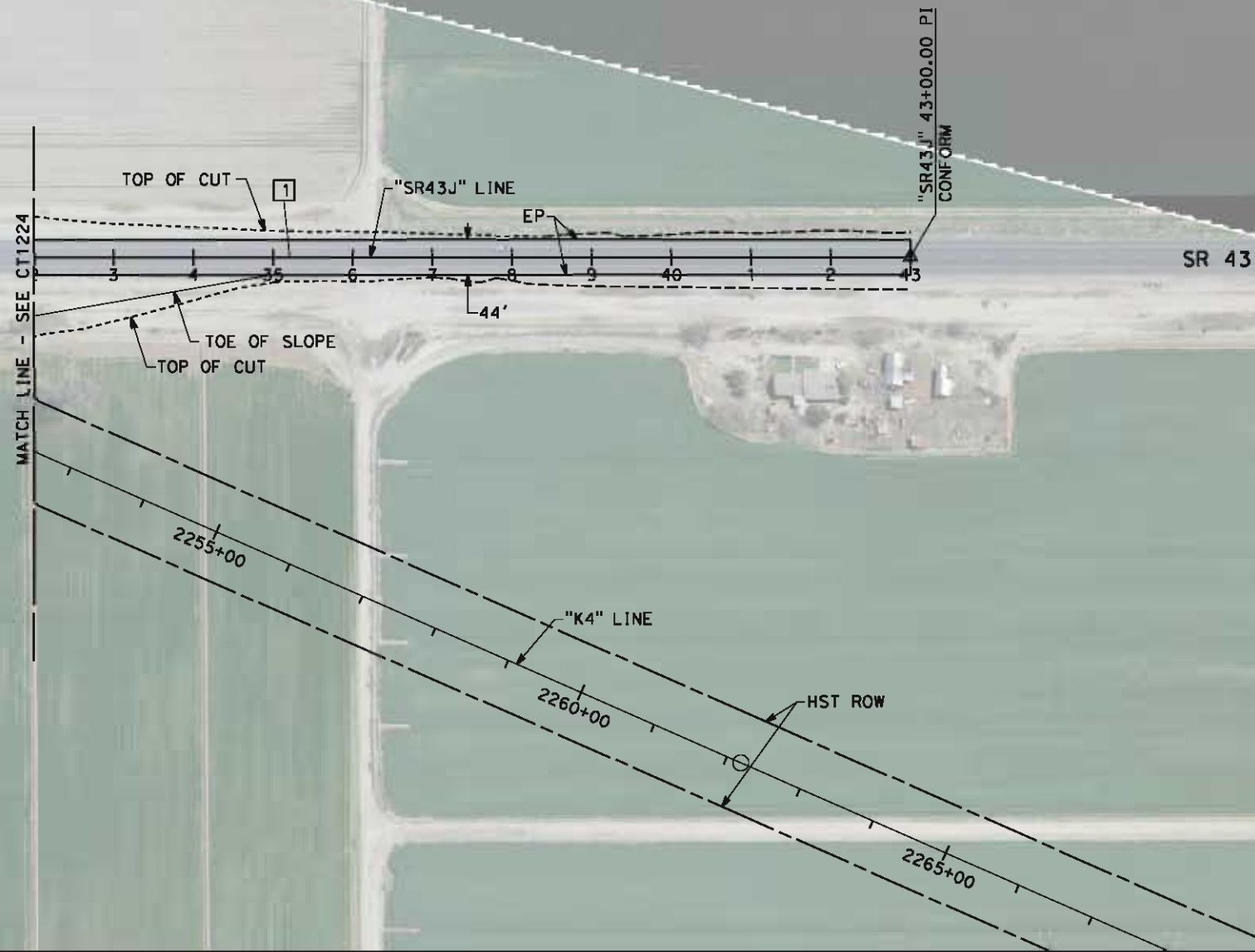


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
STATE ROUTE 43 (JERSEY AVE)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1224
SCALE AS SHOWN
SHEET NO. 6 OF 23

eron.sudhausen 5/21/2012 3:15:59 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-1225-K4.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S 00°27'06" W	3400.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
STATE ROUTE 43 (JERSEY AVE)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1225
SCALE AS SHOWN
SHEET NO. 7 OF 23

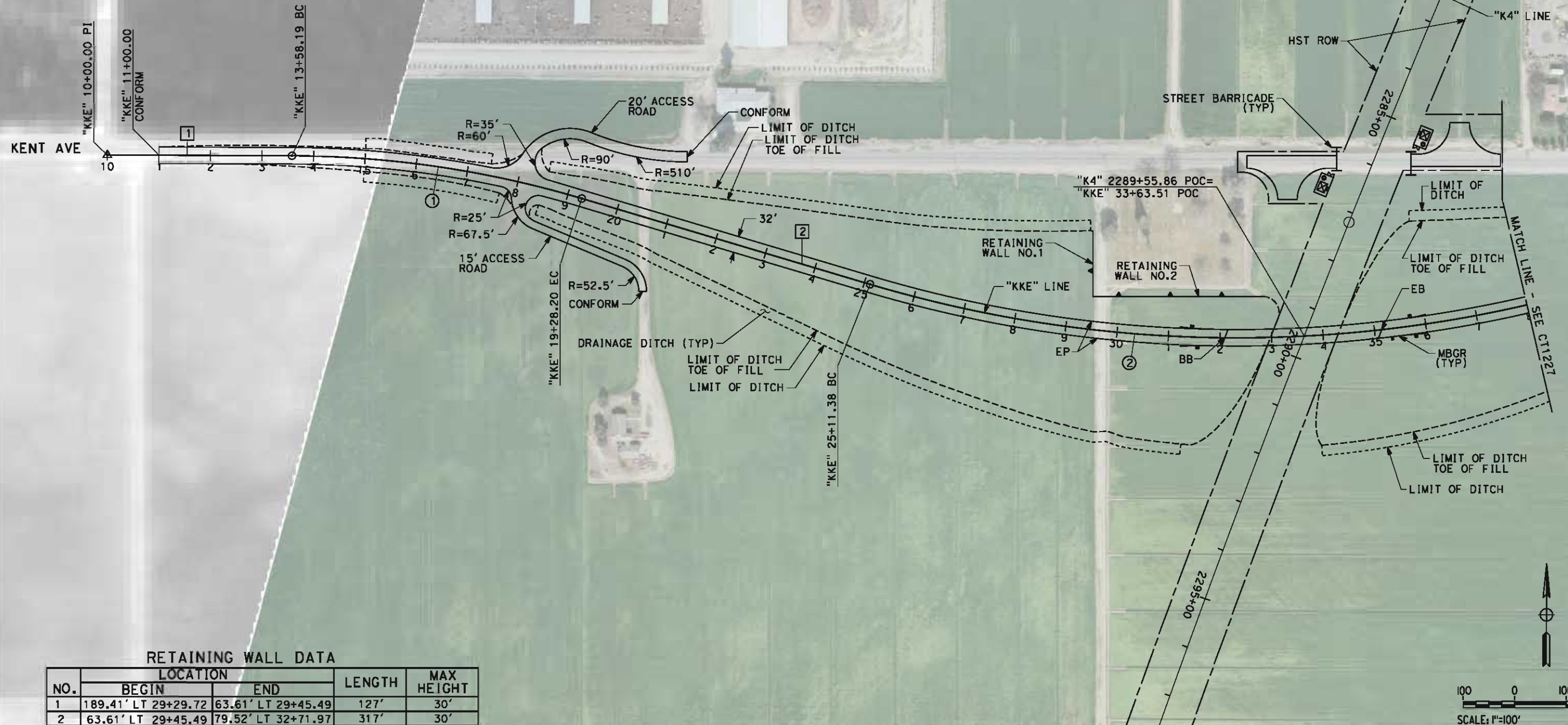
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LINE DATA

NO.	BEARING	DISTANCE
1	S 89°46'22" E	358.19'
2	S 73°26'35" E	583.18'

CURVE DATA

NO.	R	Δ	T	L	V
①	2000.00'	16°19'46"	286.95'	570.01'	45 MPH
②	2500.00'	40°19'05"	917.79'	1759.21'	45 MPH



RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	189.41' LT 29+29.72	63.61' LT 29+45.49	127'	30'
2	63.61' LT 29+45.49	79.52' LT 32+71.97	317'	30'

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1226
SCALE
AS SHOWN
SHEET NO.
8 OF 23

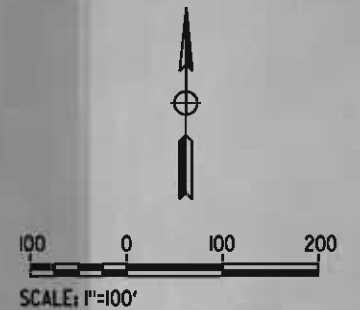
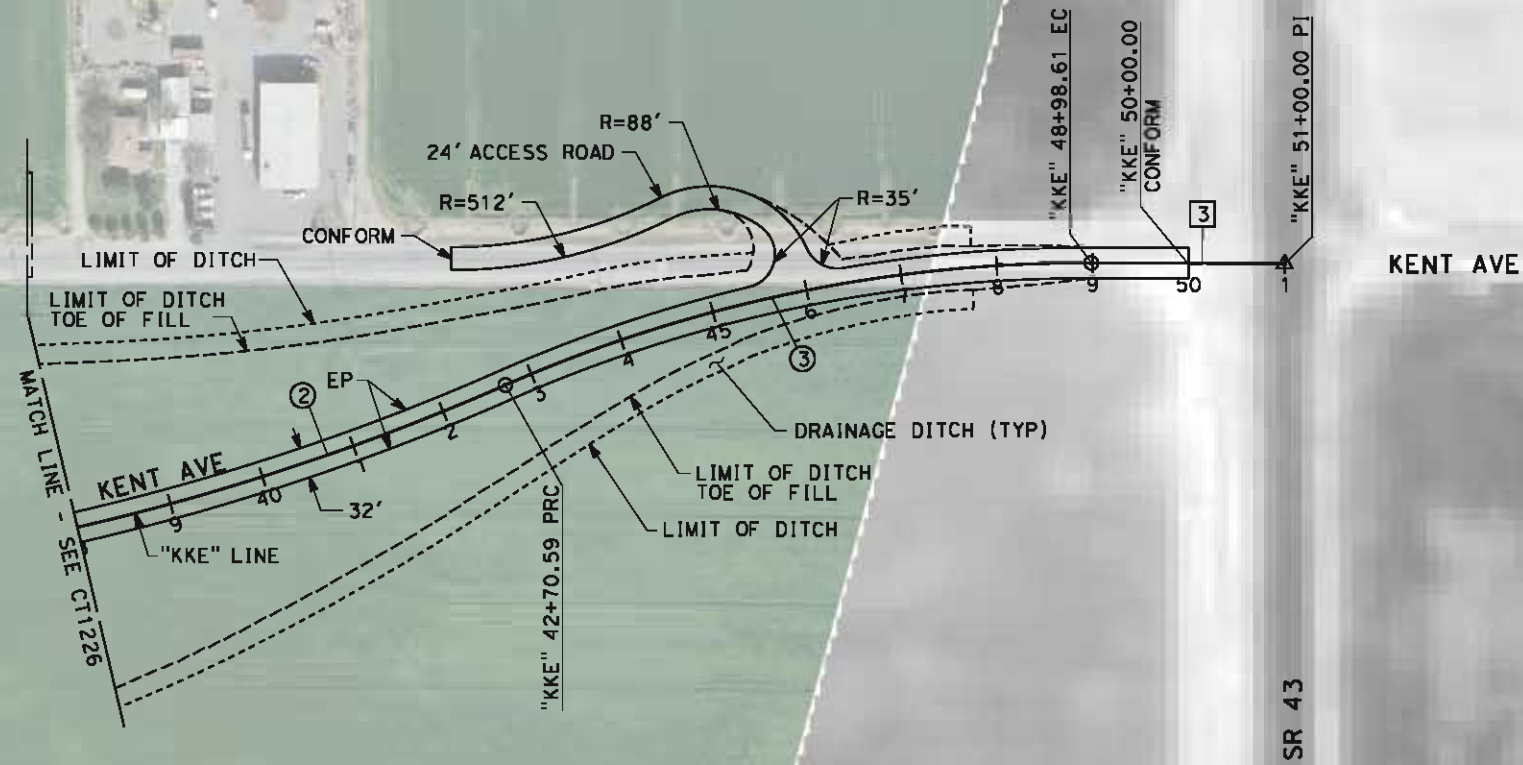
eron.sudhausen 5/17/2012 9:20:11 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\K4\FB-CT-1227-K4.dgn

LINE DATA

NO.	BEARING	DISTANCE
3	S 89°46'22" E	201.39'

CURVE DATA

NO.	R	Δ	T	L	V
2	2500.00'	40°19'05"	917.79'	1759.21'	45 MPH
3	1500.00'	23°59'19"	318.68'	628.02'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

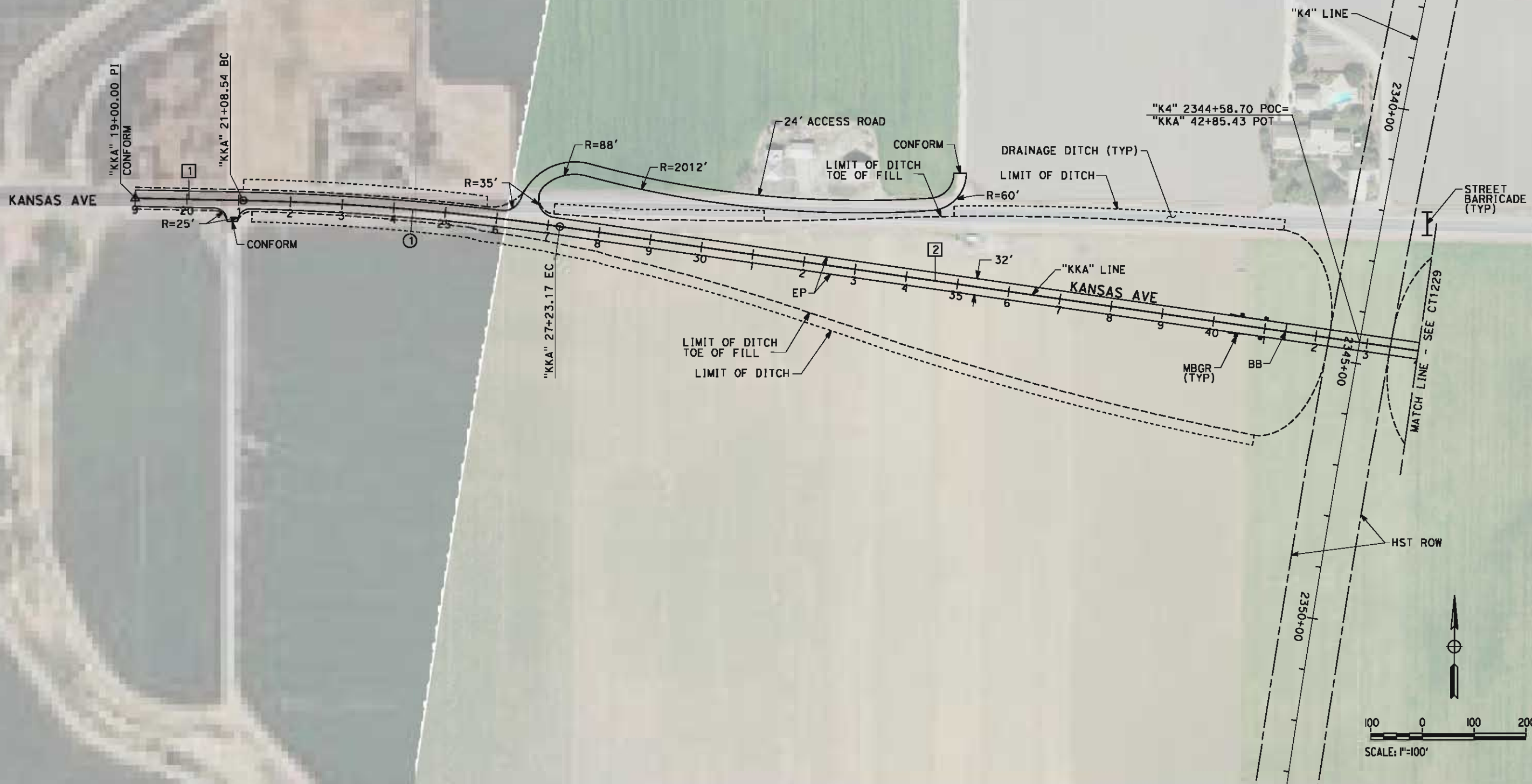


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
KENT AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1227
SCALE AS SHOWN
SHEET NO. 9 OF 23

LINE DATA		
NO.	BEARING	DISTANCE
1	S 88°48'29" E	208.54'
2	S 81°45'53" E	2295.80'

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	07°02'35"	307.70'	614.63'	45 MPH



REV	DATE	BY	CHE	APP	DESCRIPTION

DESIGNED BY	J. MONG
DRAWN BY	E. SUDHAUSEN
CHECKED BY	M. BAMM
IN CHARGE	R. COFFIN
DATE	05/18/12

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



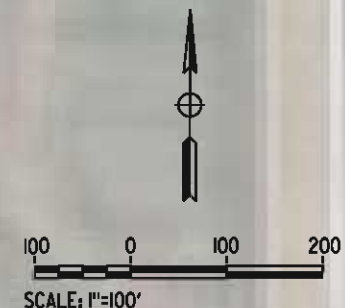
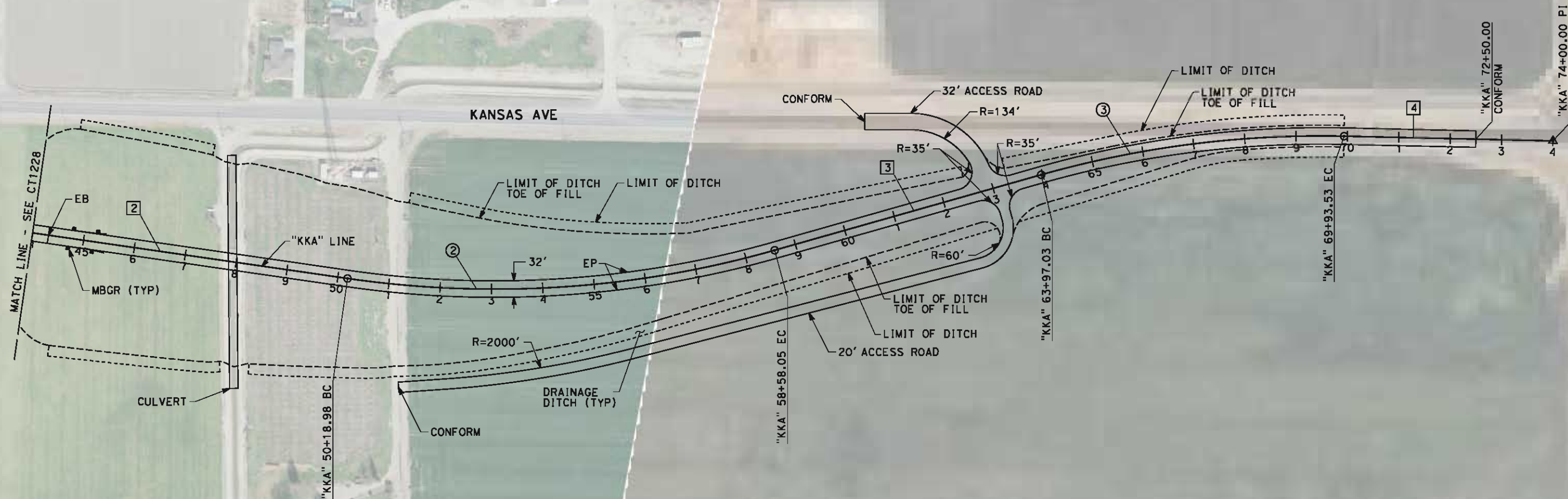
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
KANSAS AVE**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1228
SCALE	AS SHOWN
SHEET NO.	10 OF 23

eron.sudhausen 5/21/2012 3:16:13 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-1229-K4.dgn

LINE DATA		
NO.	BEARING	DISTANCE
2	S 81°45'53" E	2295.80'
3	S 74°11'51" E	538.98'
4	S 88°42'51" E	406.47'

CURVE DATA					
NO.	R	Δ	T	L	V
②	2000.00'	24°02'16"	425.80'	839.07'	45 MPH
③	2000.00'	17°05'18"	300.48'	596.50'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

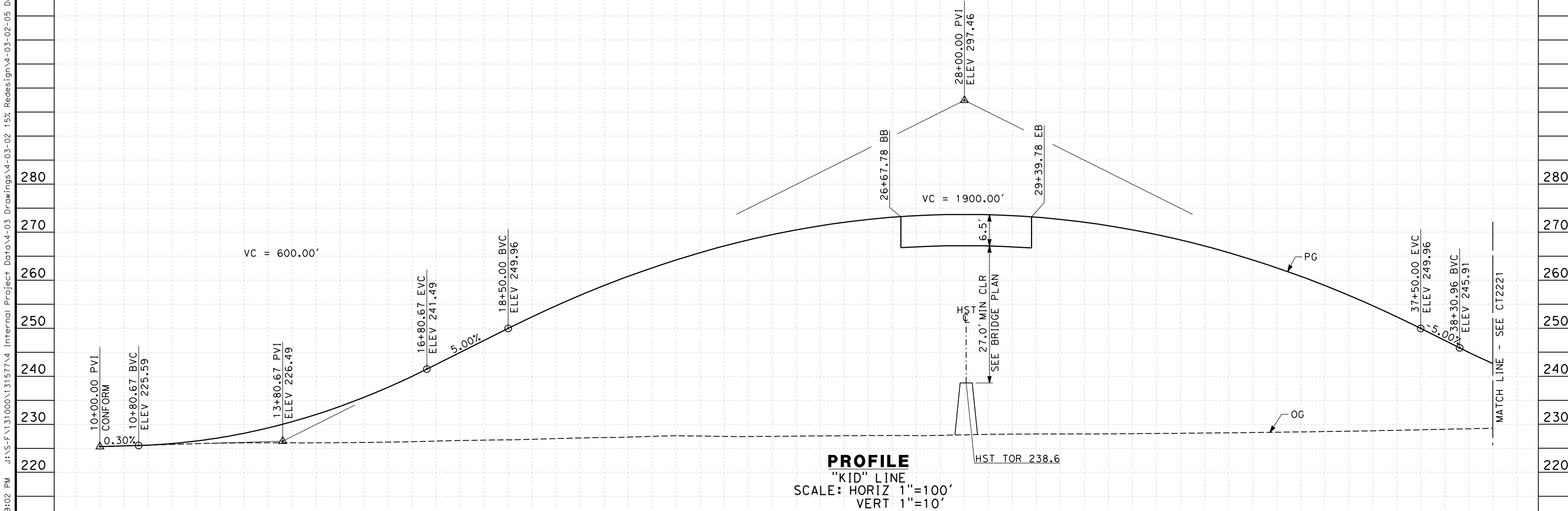


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWEAH SUBSECTION ALIGNMENT K4 GRADE SEPARATION LAYOUT KANSAS AVE
--

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1229
SCALE AS SHOWN
SHEET NO. 11 OF 23

J:\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway K4\FB-CT-2220-K4.dgn 7/9/2012 2:09:02 PM eron.sudhausen

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	TOTAL
CY	Exc																															
	Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMB
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

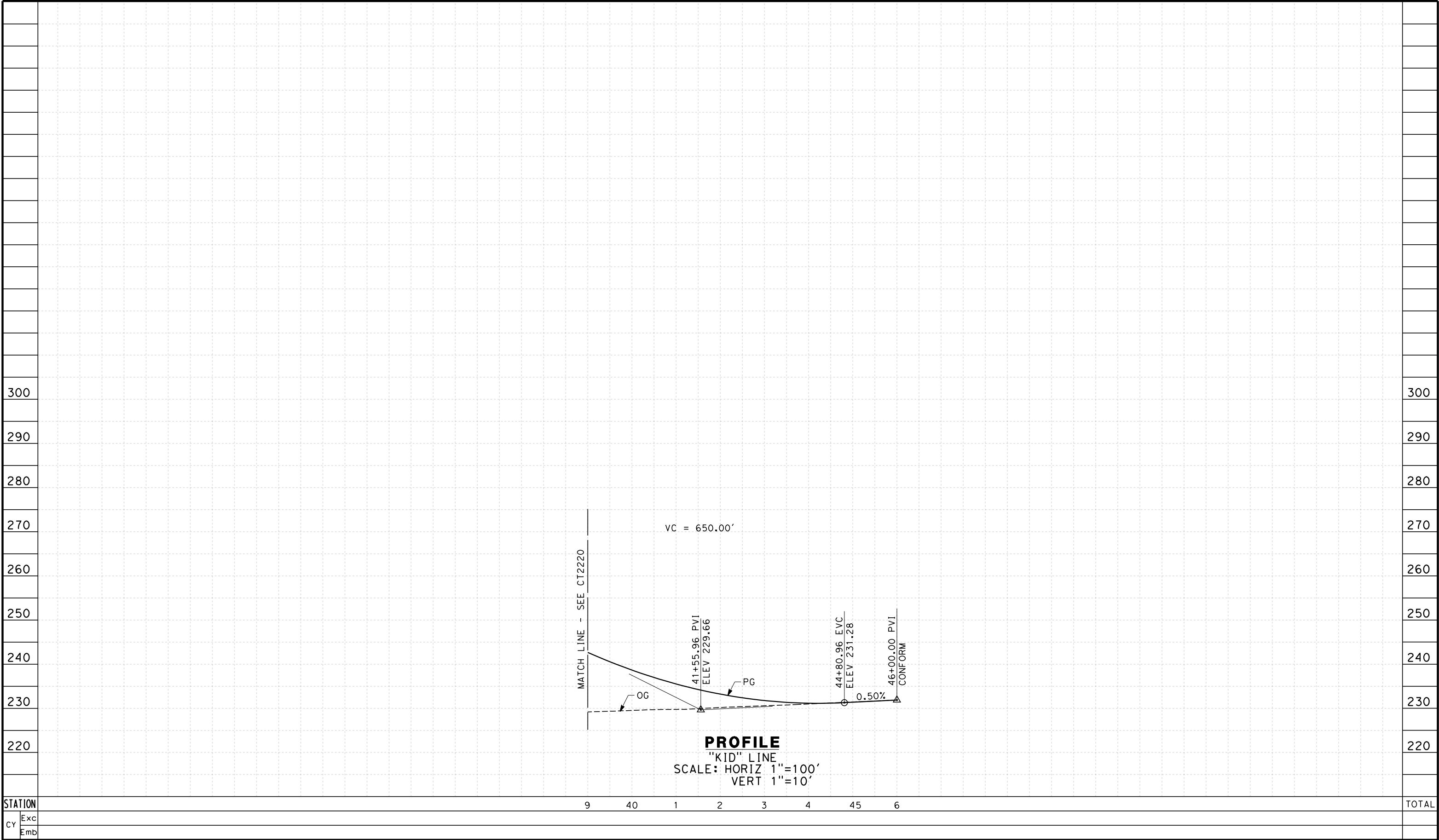


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
IDAHO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2220
SCALE AS SHOWN
SHEET NO. 12 OF 23

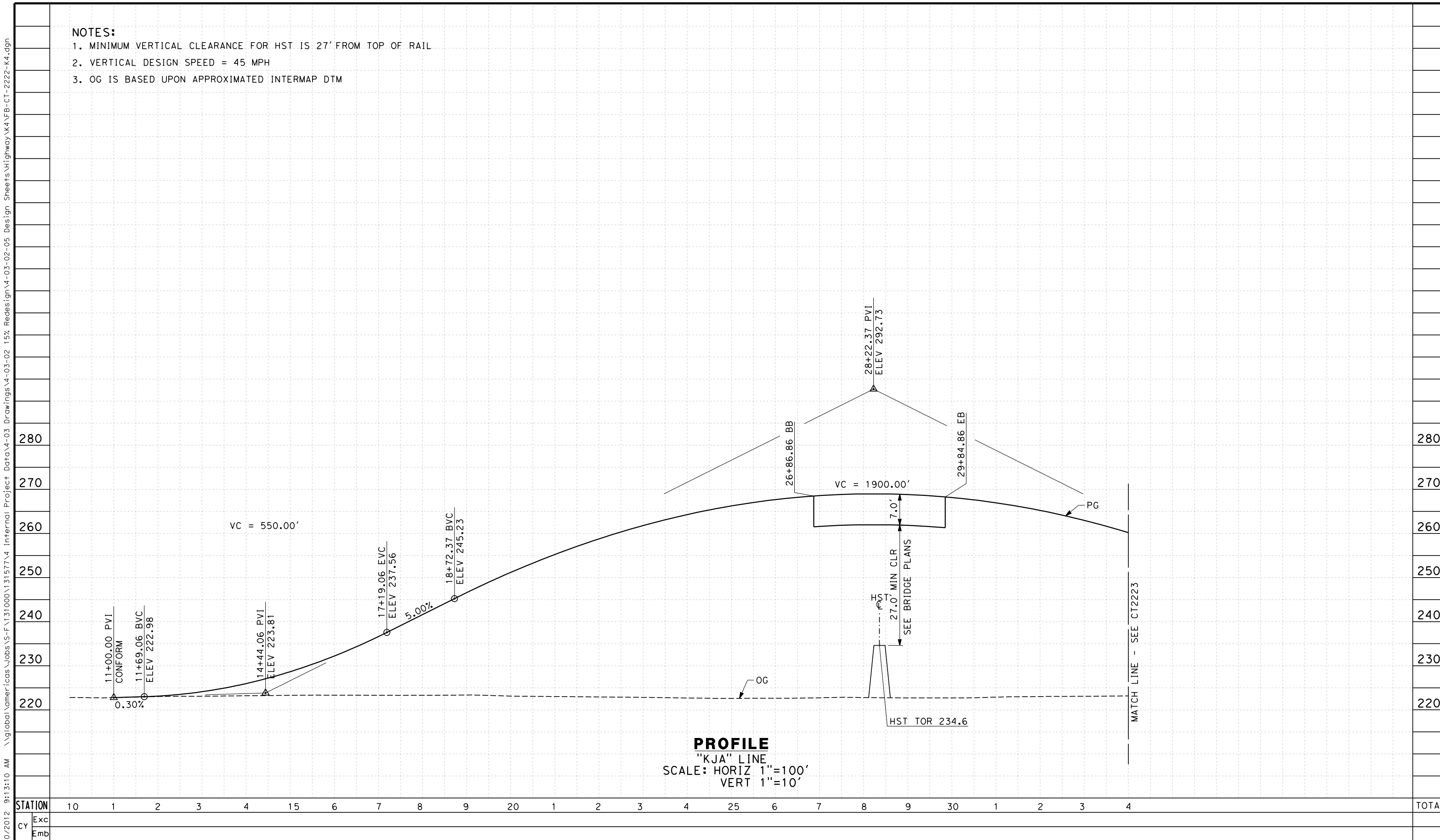
eron-sudhausen 7/10/2012 9:13:09 AM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-2221-K4.dgn



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7/10/2012 9:13:10 AM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\K4\FB-CT-2222-K4.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



PROFILE
"KJA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	TOTAL
Exc																										
Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMB
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

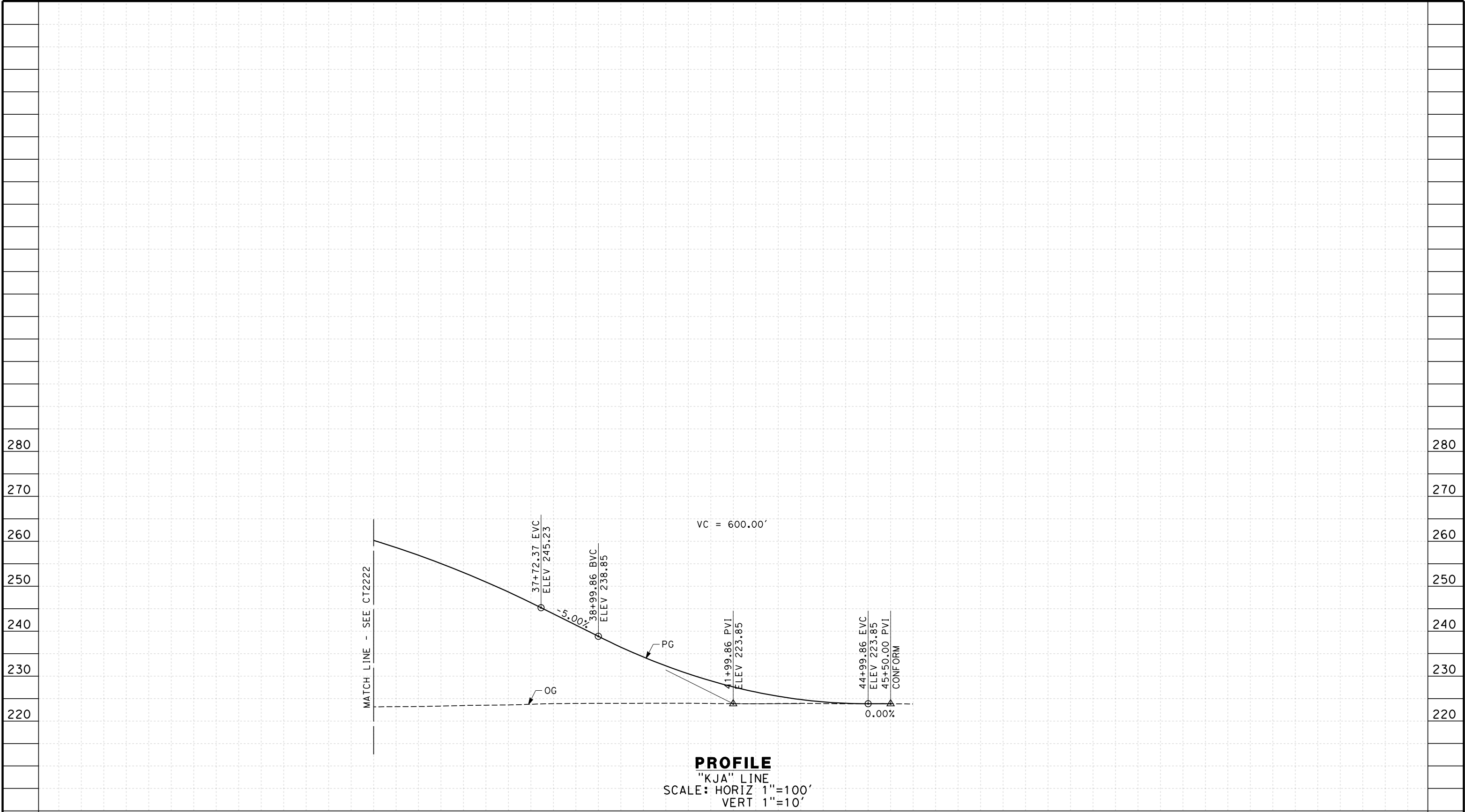


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
JACKSON AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2222
SCALE AS SHOWN
SHEET NO. 14 OF 23

eron-sudhausen 7/10/2012 9:13:12 AM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Design Sheets\Highway\K4\FB-CT-2223-K4.dgn



STATION		4	35	6	7	8	9	40	1	2	3	4	45	6	TOTAL
CY	Exc														
	Emb														

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7/10/2012 9:13:13 AM \\global\americas\Jobs\S-F\31000\31577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\K4\FB-CT-2224-K4.dgn

- NOTES:
1. MINIMUM VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY
 2. VERTICAL DESIGN SPEED = 70 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

5%

0%

-5%

▲

▲

+00.00

AXIS OF ROTATION "SR43J" LINE

-2.00% RT & LT TRAVELED WAY

-5.00% RT & LT SHLD

MATCH LINE - SEE CT2225

SUPERELEVATION DIAGRAM

11+00.00 PVI
CONFORM
11+13.19 BVC
ELEV 220.36

15+15.69 PVI
ELEV 219.55

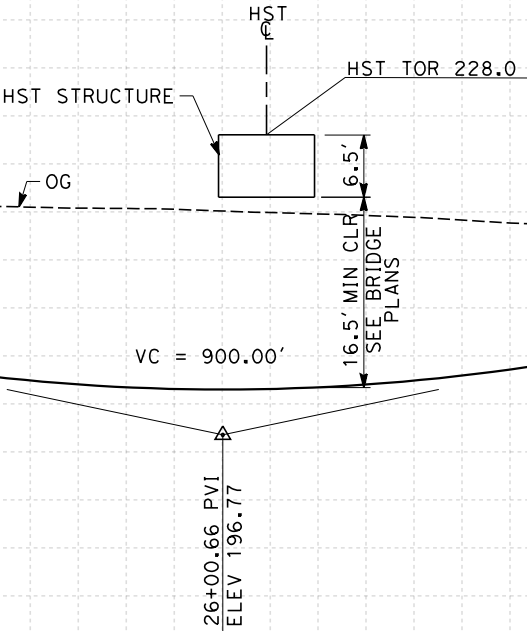
19+18.19 EVC
ELEV 211.10

21+50.66 BVC
ELEV 206.22

30+50.66 EVC
ELEV 206.22

31+56.77 BVC
ELEV 208.45

MATCH LINE - SEE CT2225



PROFILE
"SR43J" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	TOTAL
---------	----	---	---	---	---	----	---	---	---	---	----	---	---	---	---	----	---	---	---	---	----	---	---	-------

CY	Exc																								
	Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

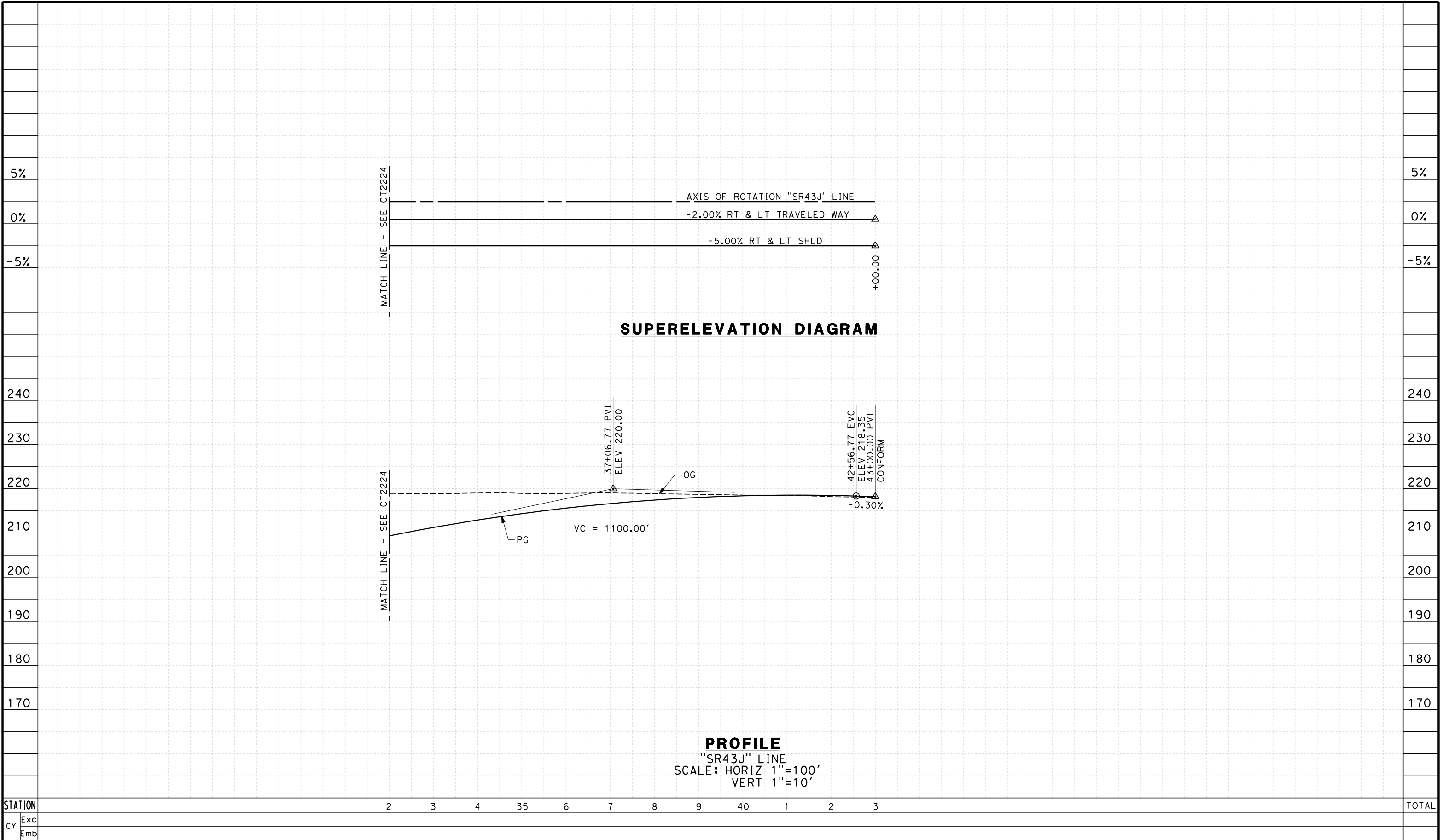
RECORD SET 15%
DESIGN SUBMISSION

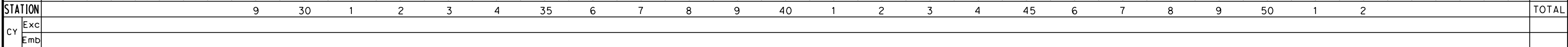
NOT FOR
CONSTRUCTION






CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 (JERSEY AVE)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2224
SCALE AS SHOWN
SHEET NO. 16 OF 23

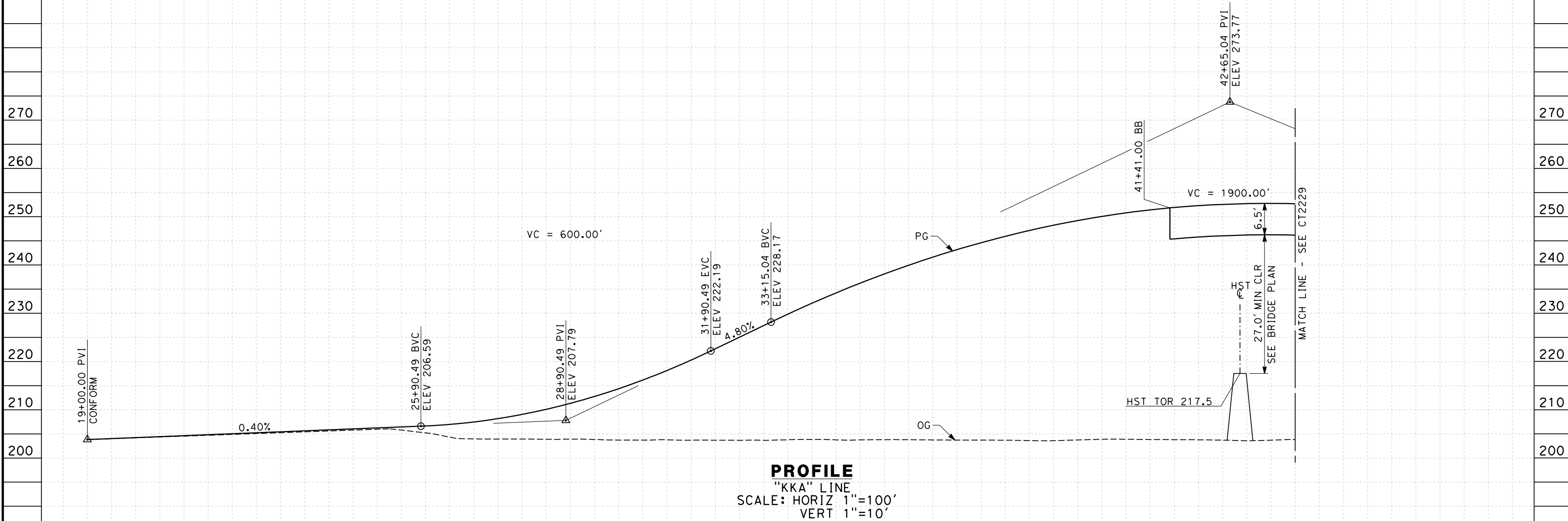
[illegible]



						DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWEAH SUBSECTION ALIGNMENT K4 GRADE SEPARATION PROFILE KENT AVE	CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN	DRAWING NO. CT2227					
					CHECKED BY M. BMM	SCALE AS SHOWN					
					IN CHARGE R. COFFIN	SHEET NO. 19 OF 23					
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12					

J:\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway K4\FB-CT-2228-K4.dgn 7/10/2012 9:40:19 AM eron.sudhausen

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. VERTICAL DESIGN SPEED = 45 MPH
 - 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	TOTAL
CY	Exc																											
	Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMB
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

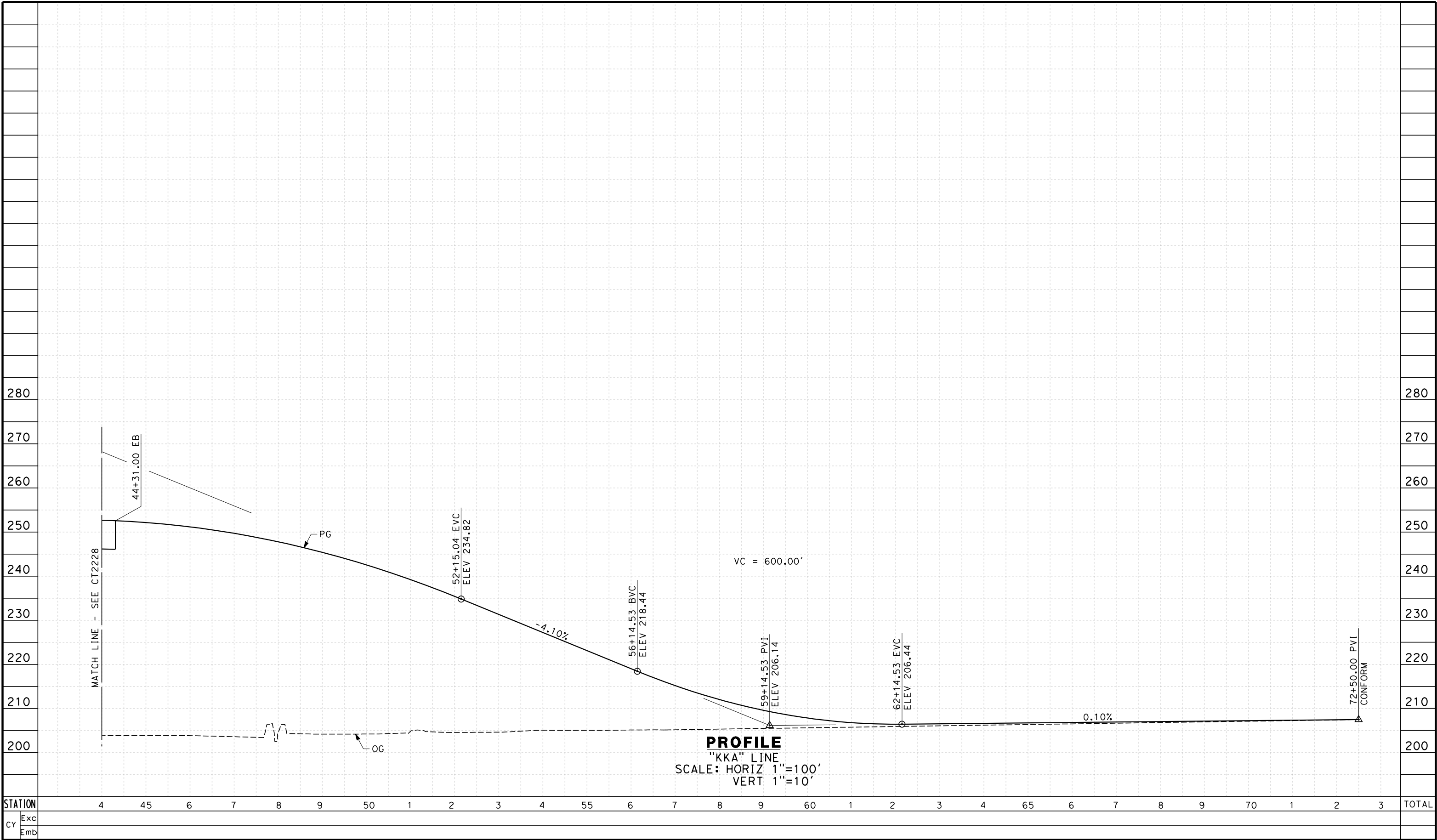


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
KANSAS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2228
SCALE AS SHOWN
SHEET NO. 20 OF 23

eron-sudhausen 7/10/2012 9:13:19 AM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\K4\FB-CT-2229-K4.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMB
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



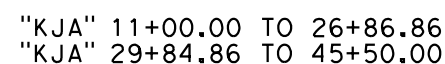
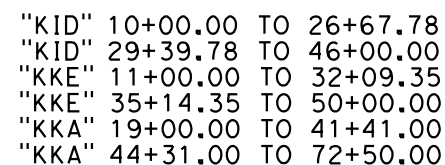
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**




KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
KANSAS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2229
SCALE AS SHOWN
SHEET NO. 21 OF 23

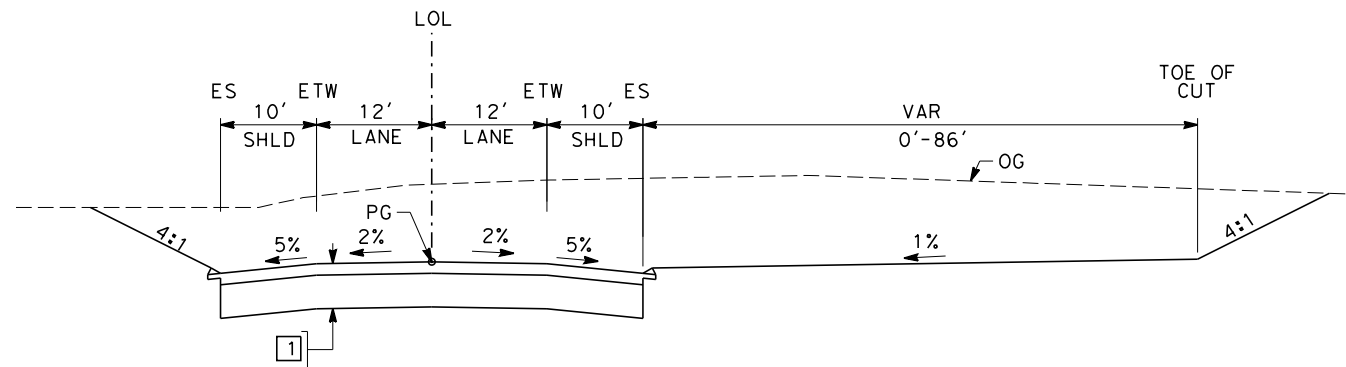
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

1 — [0.50' HMA (TYPE A)
1.00' CL2 AB



						DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWEAH SUBSECTION ALIGNMENT K4 ROADWAY / GRADE SEPARATION TYPICAL CROSS SECTIONS	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN					DRAWING NO. CT3230
						CHECKED BY M. BAMB					SCALE NO SCALE
						IN CHARGE R. COFFIN					SHEET NO. 22 OF 23
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12					

eron-sudhausen 7/10/2012 9:13:22 AM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Design Sheets\Highway\K4\FB-CT-3231-K4.dgn



SECTION C

"SR43J" 11+00.00 TO 43+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMB
IN CHARGE R. COFFIN
DATE 05/18/12

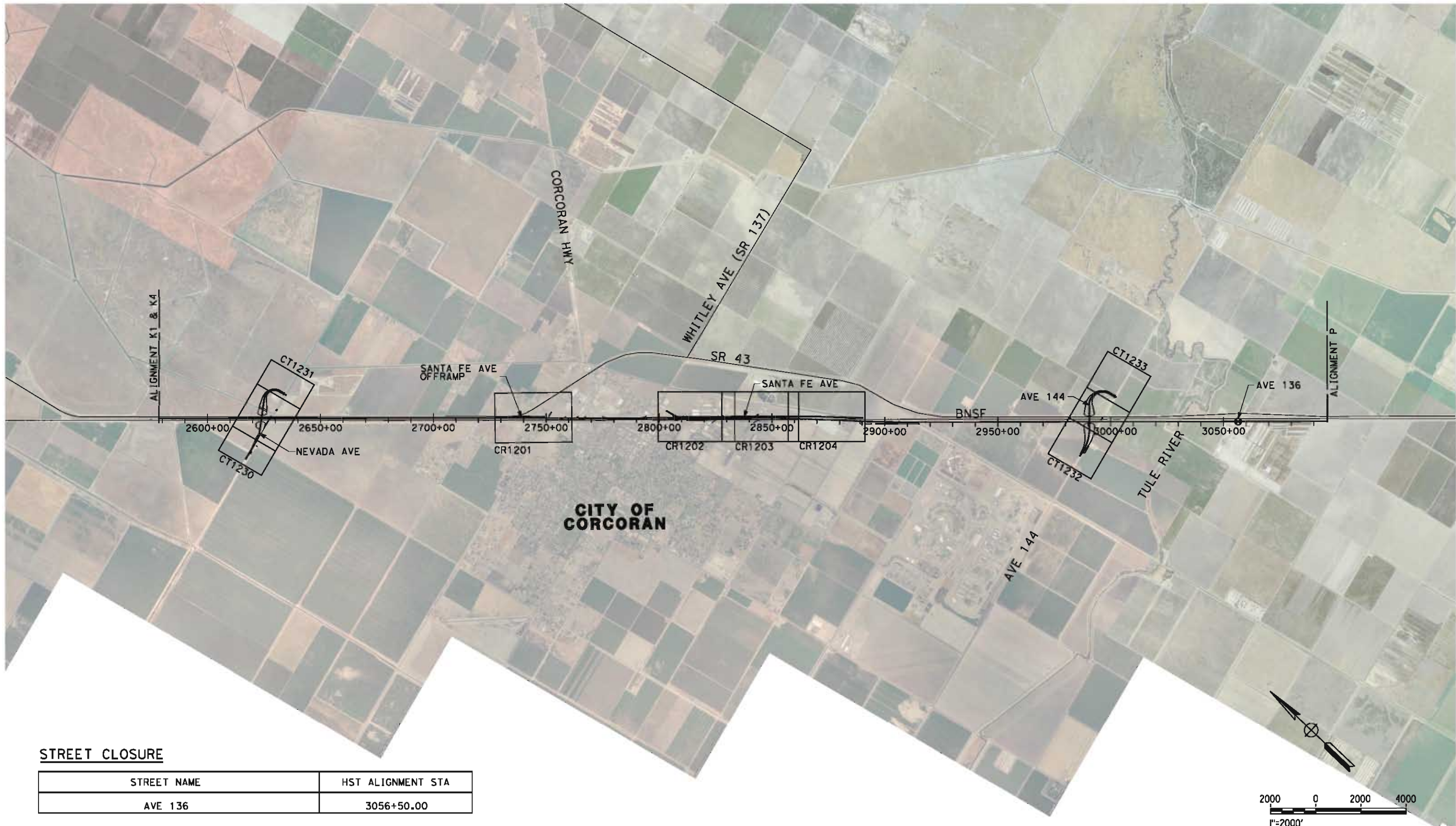
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION ALIGNMENT K4 ROADWAY / GRADE SEPARATION TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3231
SCALE NO SCALE
SHEET NO. 23 OF 23

eron.sudhausen 5/17/2012 9:42:38 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\C1\FB-CB-0070-C1.dgn



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA
AVE 136	3056+50.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



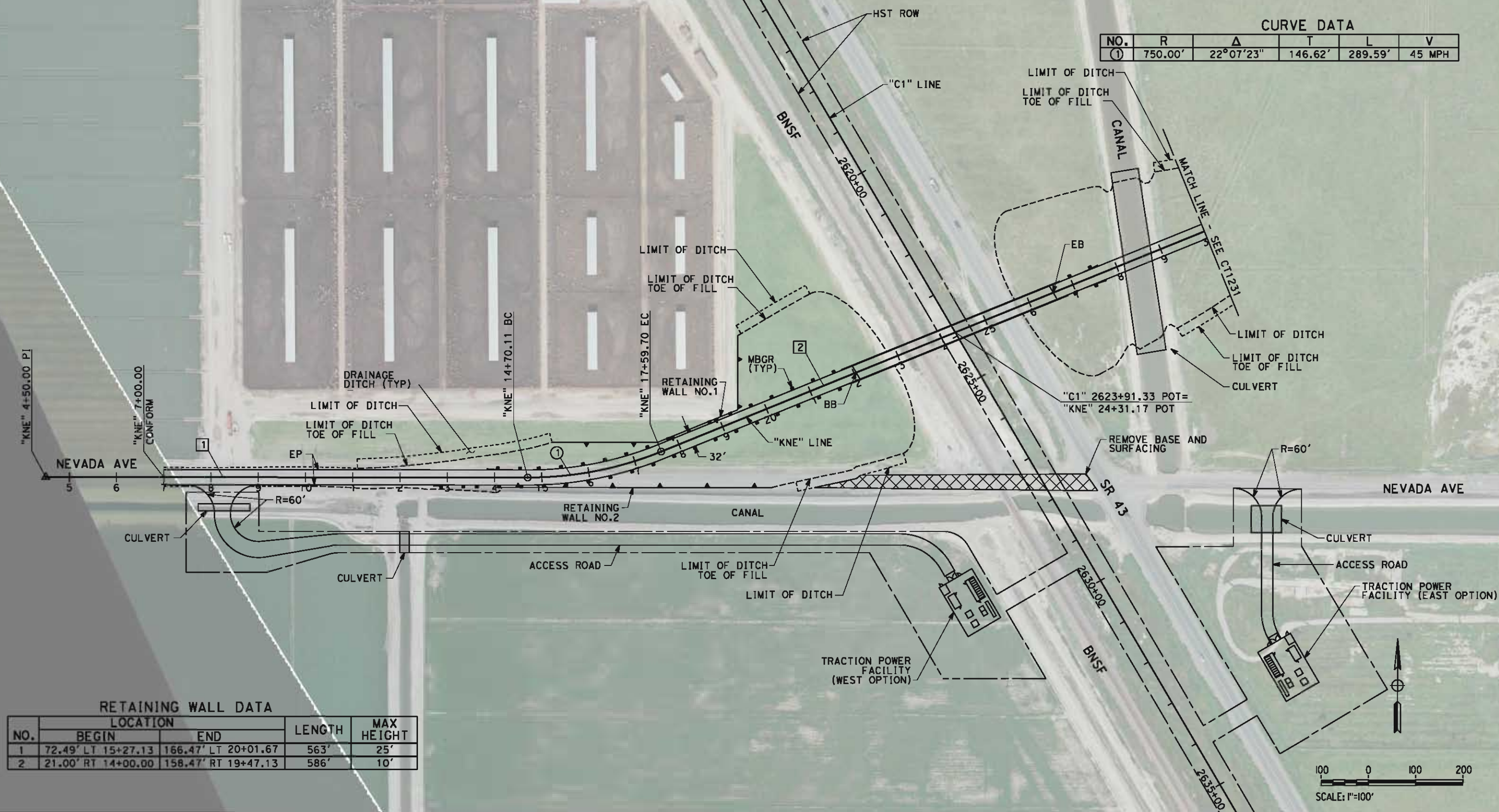
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0070
SCALE AS SHOWN
SHEET NO. 1 OF 19

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89°56'31" E	1020.11'
2	N 67°56'06" E	1562.34'

CURVE DATA					
NO.	R	Δ	T	L	V
①	750.00'	22°07'23"	146.62'	289.59'	45 MPH



RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	72.49' LT 15+27.13	166.47' LT 20+01.67	563'	25'
2	21.00' RT 14+00.00	158.47' RT 19+47.13	586'	10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	J. MONG
DRAWN BY	E. SUDHAUSEN
CHECKED BY	M. BAMM
IN CHARGE	R. COFFIN
DATE	05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION LAYOUT
NEVADA AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1230
SCALE	AS SHOWN
SHEET NO.	2 OF 19

CURVE DATA					
NO.	R	Δ	T	L	V
(2)	450.00'	112°35'34"	674.65'	884.30'	35 MPH



CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1231
SCALE	AS SHOWN
SHEET NO.	3 OF 19

LINE DATA		
NO.	BEARING	DISTANCE
1	S 89°47'07" E	409.51'
2	N 59°37'01" E	1152.38'

CURVE DATA					
NO.	R	Δ	T	L	V
①	1500.00'	30° 35' 52"	410.32'	801.05'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAHM
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 18%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION LAYOUT
AVE 144**

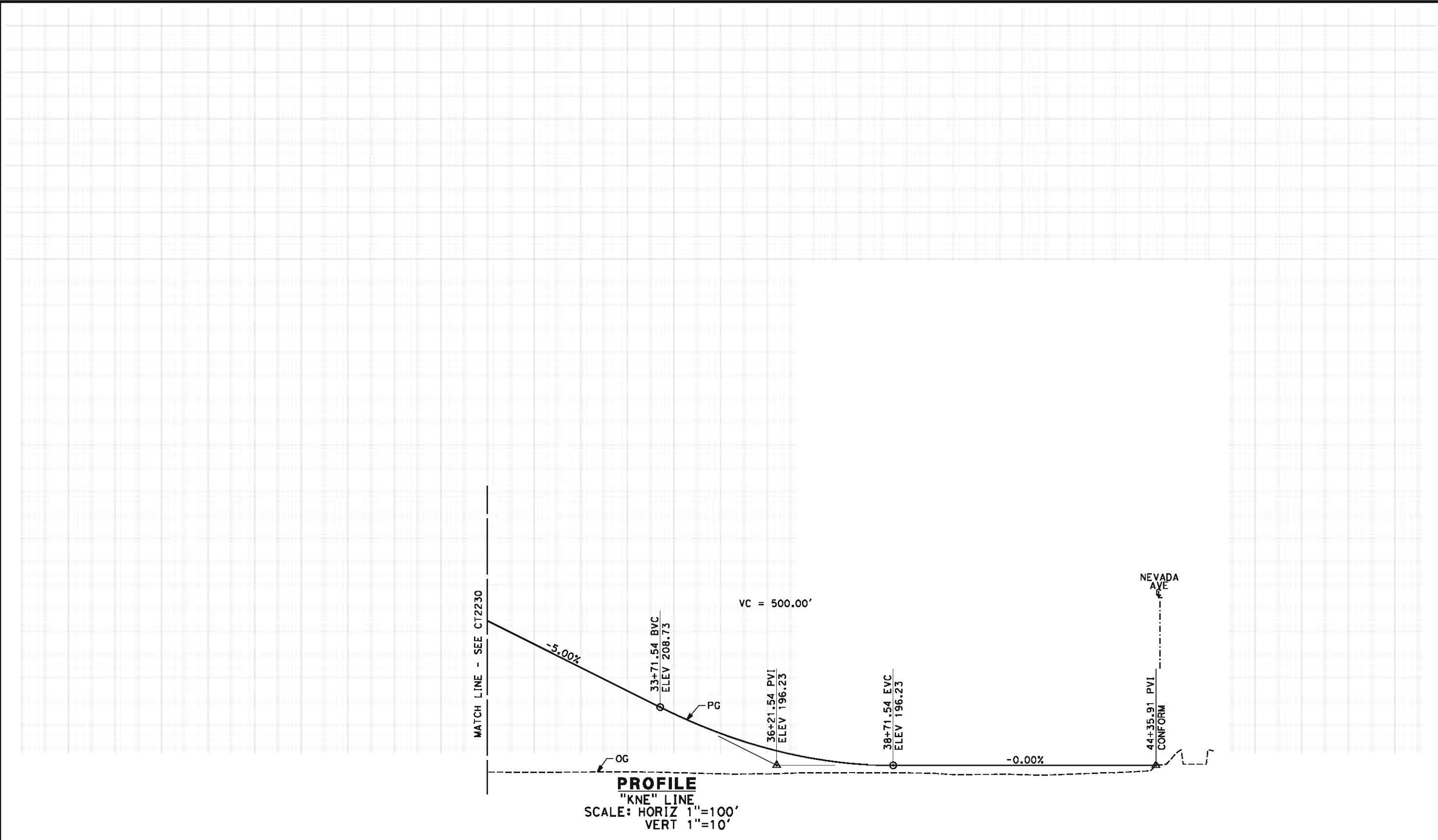
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1232
SCALE	AS SHOWN
SHEET NO.	4 OF 19

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1233
SCALE	AS SHOWN
SHEET NO.	5 OF 19

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY
4. VERTICAL DESIGN SPEED = 45 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



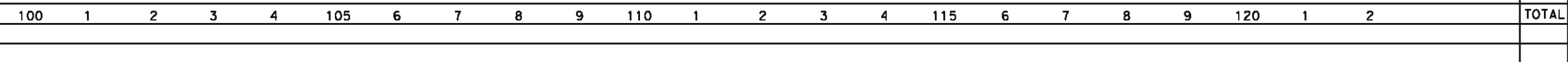
CY	Exc										
	Emb										
eron, sudhausen 5/17/2012							DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C1 GRADE SEPARATION PROFILE NEVADA AVE	CONTRACT NO. HSR 06-0003
							DRAWN BY E. SUDHAUSEN				DRAWING NO. CT2230
							CHECKED BY M. BAMM				SCALE AS SHOWN
							IN CHARGE R. COFFIN				SHEET NO. 6 OF 19
							DATE 05/18/12				
REV	DATE	BY	CHK	APP	DESCRIPTION						



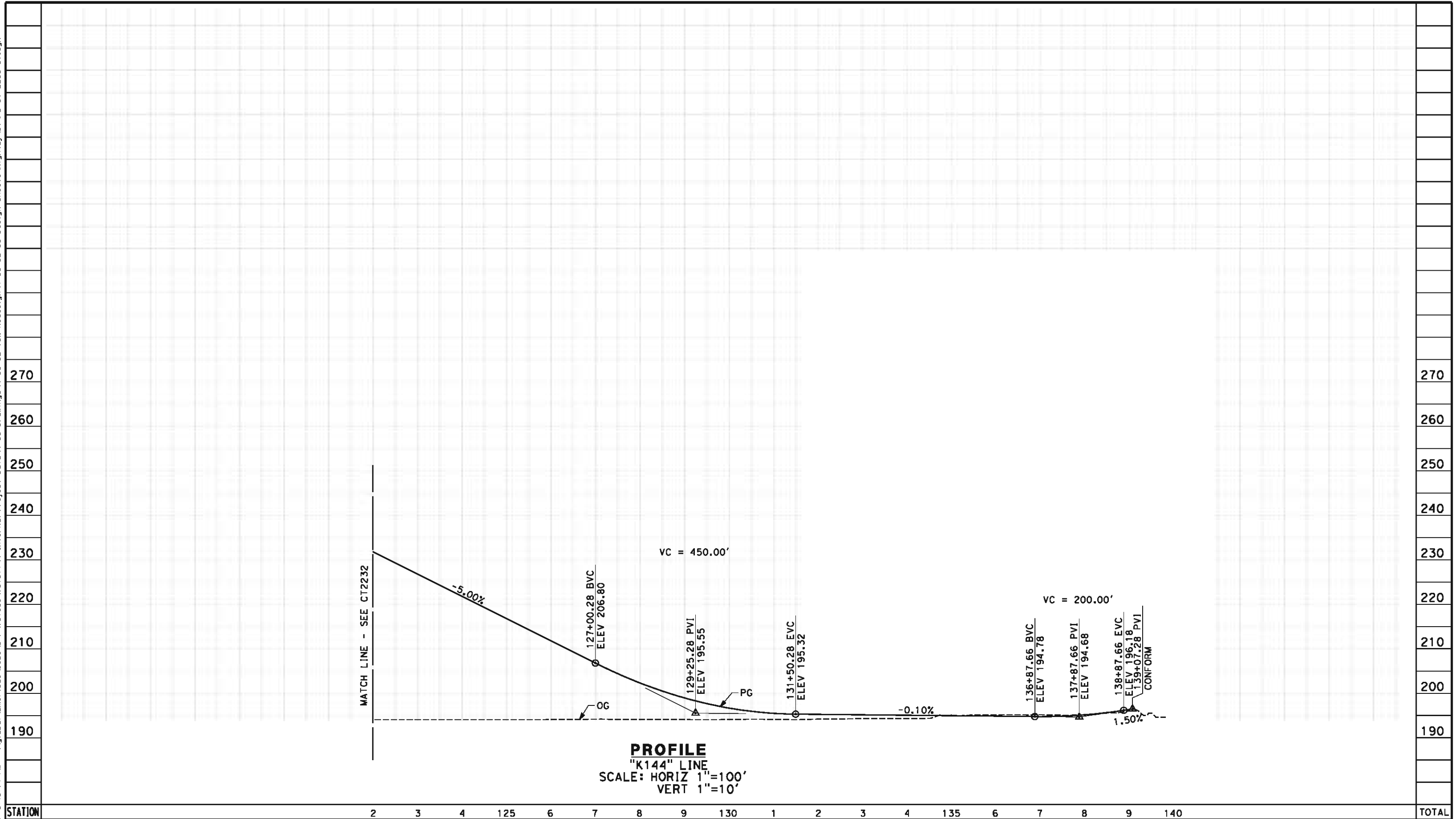
270
260
250
240
230
220
210
200
190

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2231
SCALE	AS SHOWN
SHEET NO.	7 OF 19

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY
4. VERTICAL DESIGN SPEED = 45 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C1 GRADE SEPARATION PROFILE AVE 144	CONTRACT NO. HSR 06-0003
DRAWN BY E. SUDHAUSEN					DRAWING NO. CT2232
CHECKED BY M. BAMB					SCALE AS SHOWN
IN CHARGE R. COFFIN					SHEET NO. 8 OF 19
DATE 05/18/12					



Exc											
CY											
Emb											
						DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C1 GRADE SEPARATION PROFILE AVE 144	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN					DRAWING NO. CT2233
						CHECKED BY M. BAMM					SCALE AS SHOWN
						IN CHARGE R. COFFIN					SHEET NO. 9 OF 19
						DATE 05/18/12					
REV	DATE	BY	CHK	APP	DESCRIPTION						

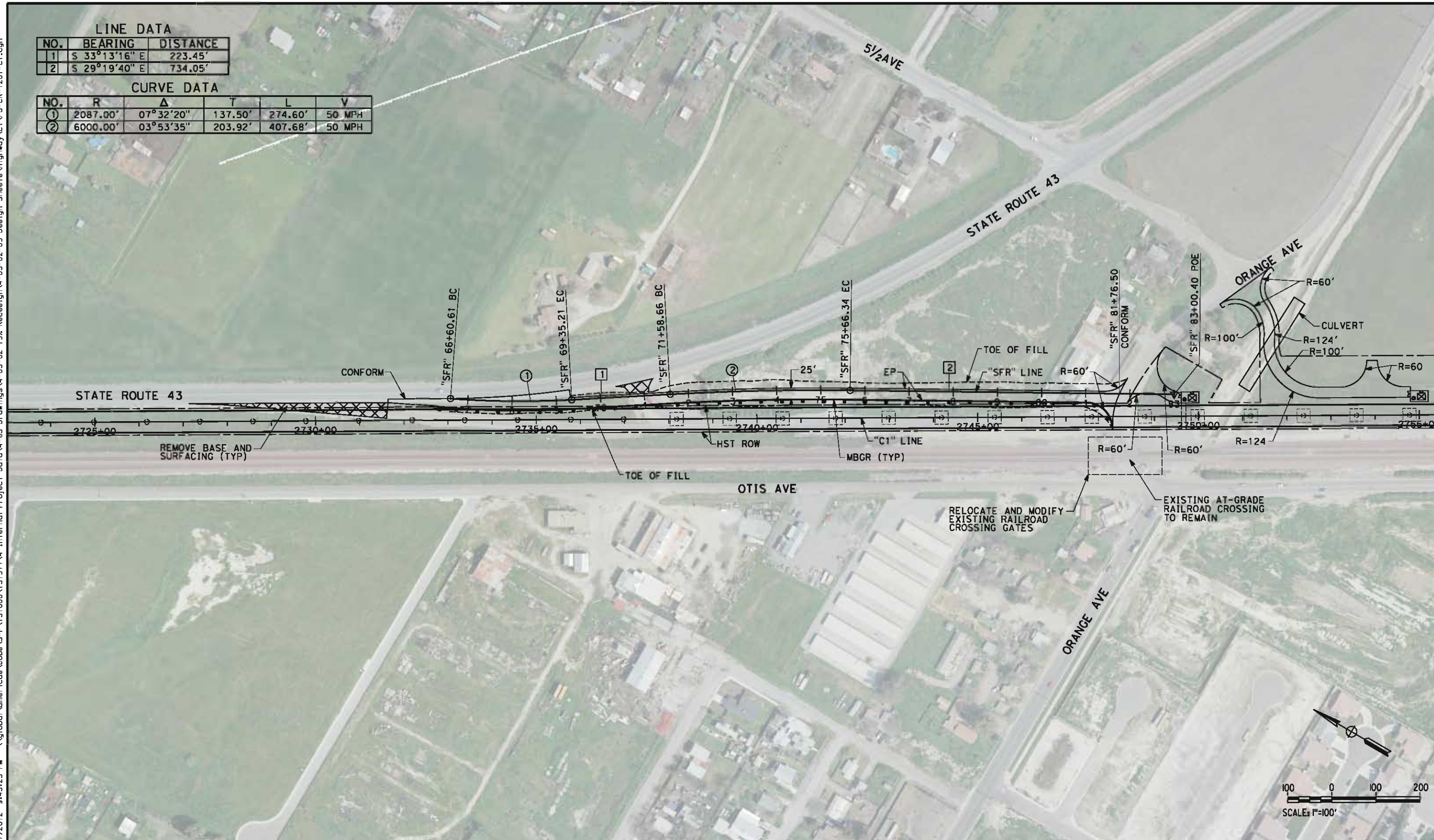
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LINE DATA

NO.	BEARING	DISTANCE
1	S 33°13'16" E	223.45'
2	S 29°19'40" E	734.05'

CURVE DATA

NO.	R	Δ	T	L	V
①	2087.00'	07°32'20"	137.50'	274.60'	50 MPH
②	6000.00'	03°53'35"	203.92'	407.68'	50 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

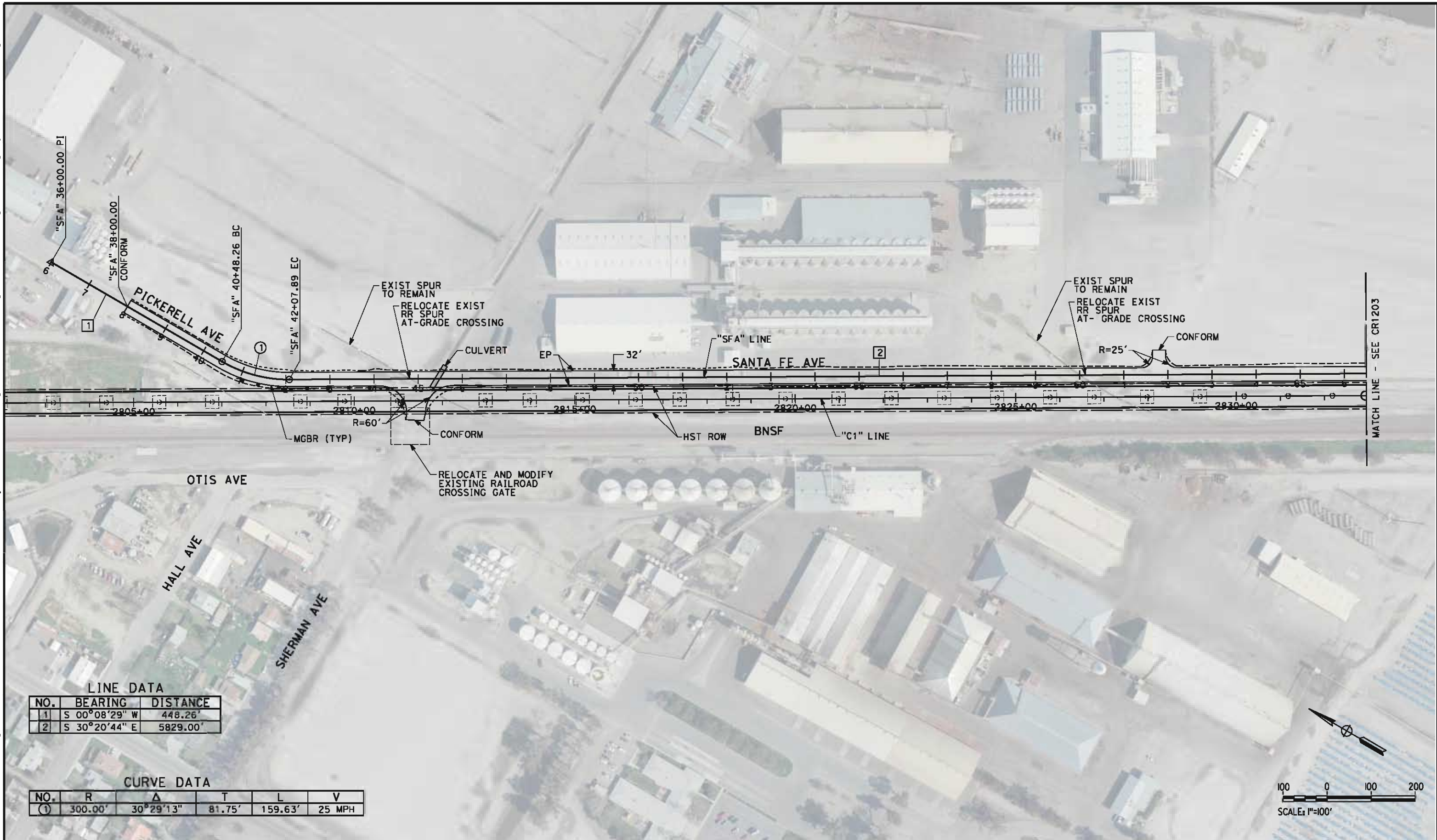
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY LAYOUT
SANTA FE AVE OFF RAMP

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1201
SCALE AS SHOWN
SHEET NO. 10 OF 19

eron.sudhausen 5/17/2012 9:43:29 PM \\global\americas\Jobs\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\CR-1202-C1.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S 00°08'29" W	448.26'
2	S 30°20'44" E	5829.00'

CURVE DATA

NO.	R	Δ	T	L	V
①	300.00'	30°29'13"	81.75'	159.63'	25 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY LAYOUT
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1202
SCALE AS SHOWN
SHEET NO. 11 OF 19

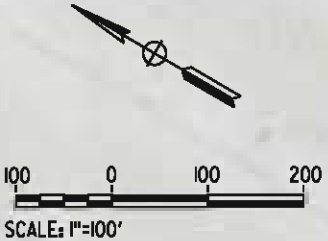
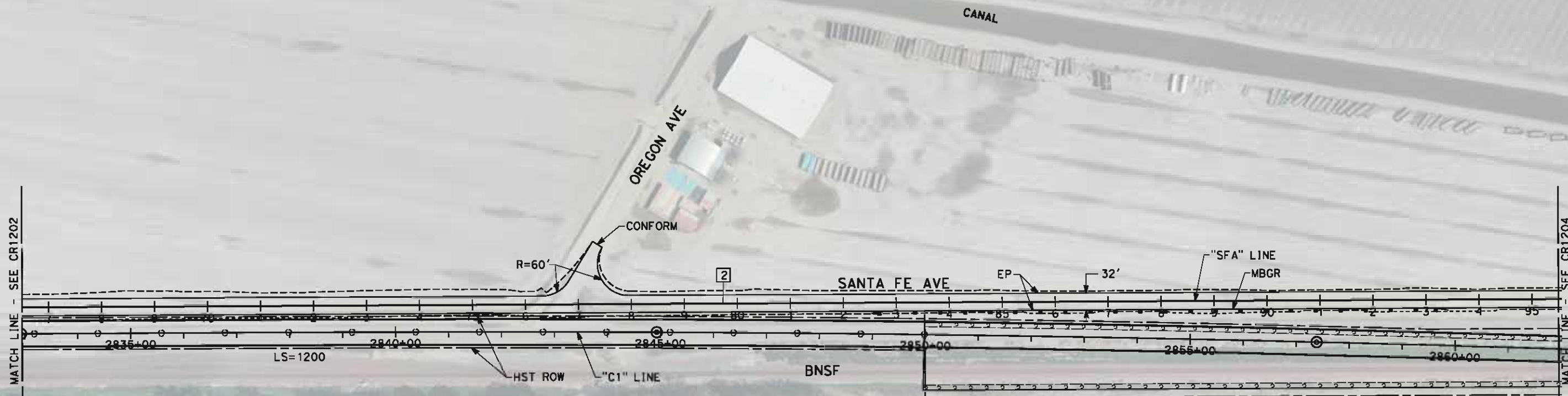
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LINE DATA

NO.	BEARING	DISTANCE
2	S 30°20'44" E	5829.00'

MATCH LINE - SEE CR1202

MATCH LINE - SEE CR1204



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY LAYOUT
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1203
SCALE AS SHOWN
SHEET NO. 12 OF 19

eron-sudhausen 5/17/2012 9:43:44 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\CR1204-C1.dgn

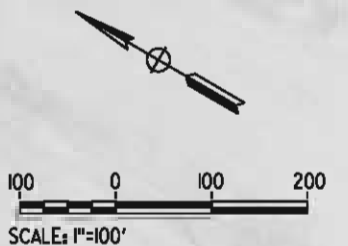


LINE DATA

NO.	BEARING	DISTANCE
2	S 30°20'44" E	5829.00'
3	S 28°03'13" E	909.56'
4	S 30°44'54" E	418.41'

CURVE DATA

NO.	R	Δ	T	L	V
2	20000.00'	02°17'31"	400.05'	800.00'	50 MPH
3	5000.00'	02°41'41"	117.60'	235.15'	50 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

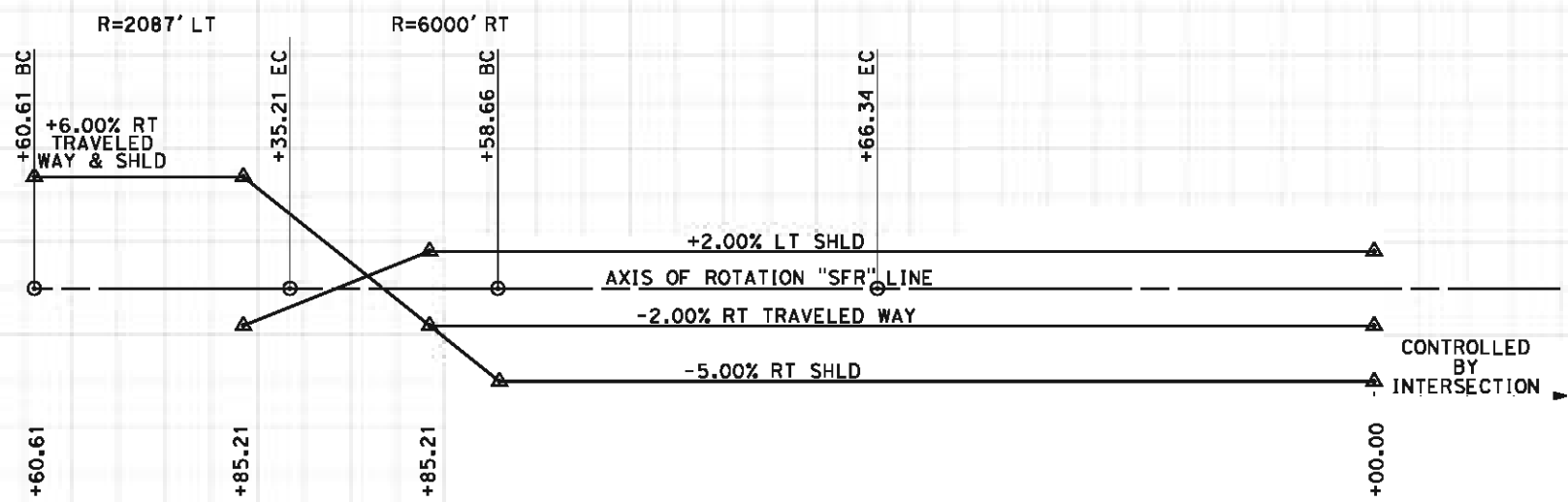


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C1 ROADWAY LAYOUT SANTA FE AVE

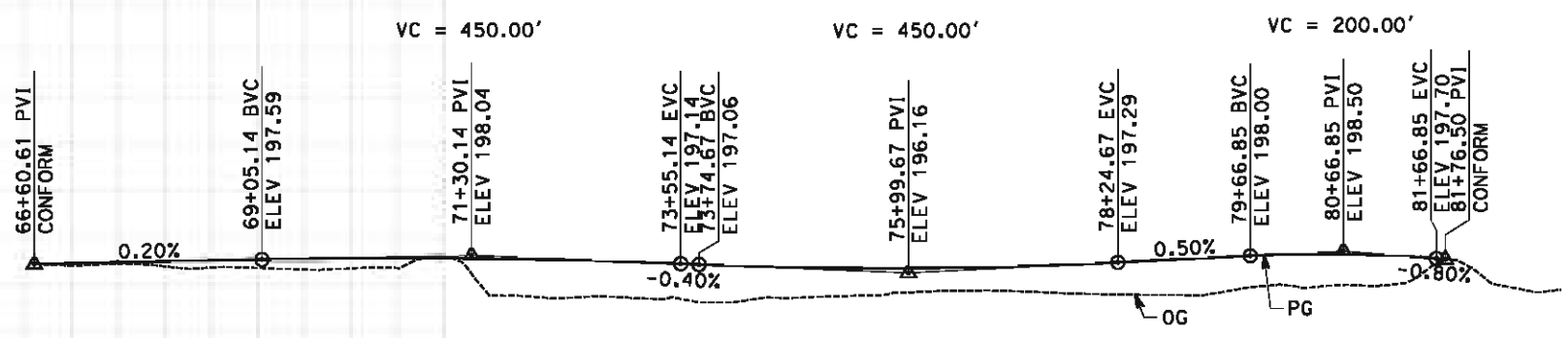
CONTRACT NO. HSR 06-0003
DRAWING NO. CR1204
SCALE AS SHOWN
SHEET NO. 13 OF 19

eron.sudhausen 5/17/2012 9:43:45 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% CR-2201-C1.dgn

- NOTES:
1. VERTICAL DESIGN SPEED = 50 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM




SUPERELEVATION DIAGRAM



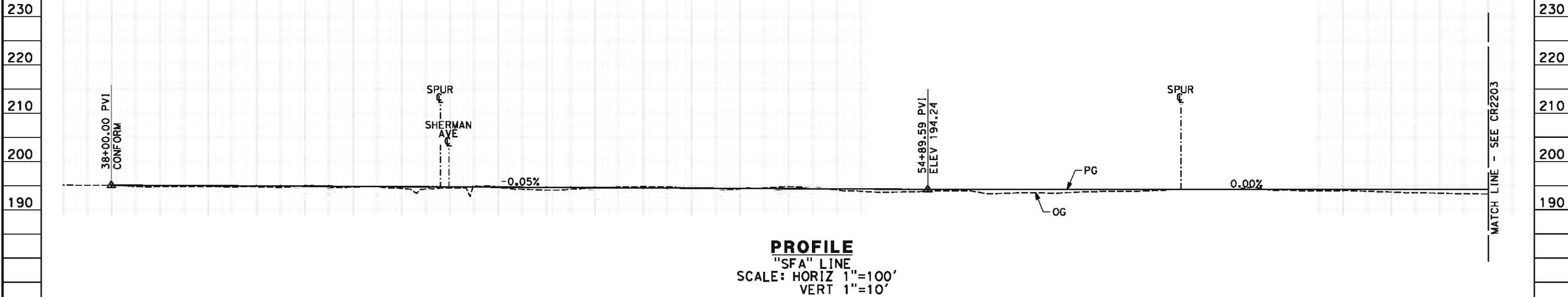
PROFILE
"SFR" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	65	6	7	8	9	70	1	2	3	4	75	6	7	8	9	80	1	2	3	4	85	TOTAL
Exc																						
Emb																						

<table><tr><th>REV</th><th>DATE</th><th>BY</th><th>CHK</th><th>APP</th><th>DESCRIPTION</th></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>	REV	DATE	BY	CHK	APP	DESCRIPTION																									<table><tr><td>DESIGNED BY M. BAMB</td></tr><tr><td>DRAWN BY E. SUDHAUSEN</td></tr><tr><td>CHECKED BY J. MONG</td></tr><tr><td>IN CHARGE R. COFFIN</td></tr><tr><td>DATE 05/18/12</td></tr></table>	DESIGNED BY M. BAMB	DRAWN BY E. SUDHAUSEN	CHECKED BY J. MONG	IN CHARGE R. COFFIN	DATE 05/18/12	<table><tr><td>RECORD SET 15% DESIGN SUBMISSION</td></tr><tr><td>NOT FOR CONSTRUCTION</td></tr></table>	RECORD SET 15% DESIGN SUBMISSION	NOT FOR CONSTRUCTION	 	<table><tr><td colspan="4">CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD</td></tr><tr><td colspan="4">CORCORAN SUBSECTION ALIGNMENT C1</td></tr><tr><td colspan="4">ROADWAY PROFILE & SUPERELEVATION DIAGRAM SANTA FE AVE OFF RAMP</td></tr></table>	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD				CORCORAN SUBSECTION ALIGNMENT C1				ROADWAY PROFILE & SUPERELEVATION DIAGRAM SANTA FE AVE OFF RAMP				<table><tr><td>CONTRACT NO. HSR 06-0003</td></tr><tr><td>DRAWING NO. CR2201</td></tr><tr><td>SCALE AS SHOWN</td></tr><tr><td>SHEET NO. 14 OF 19</td></tr></table>	CONTRACT NO. HSR 06-0003	DRAWING NO. CR2201	SCALE AS SHOWN	SHEET NO. 14 OF 19
REV	DATE	BY	CHK	APP	DESCRIPTION																																																					
DESIGNED BY M. BAMB																																																										
DRAWN BY E. SUDHAUSEN																																																										
CHECKED BY J. MONG																																																										
IN CHARGE R. COFFIN																																																										
DATE 05/18/12																																																										
RECORD SET 15% DESIGN SUBMISSION																																																										
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ROADWAY PROFILE & SUPERELEVATION DIAGRAM SANTA FE AVE OFF RAMP																																																										
CONTRACT NO. HSR 06-0003																																																										
DRAWING NO. CR2201																																																										
SCALE AS SHOWN																																																										
SHEET NO. 14 OF 19																																																										

eron.sudhausen 5/17/2012 9:43:47 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\Highway\C1\FB-CR-2202-C1.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 45 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	TOTAL
CY	Exc																														
	Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. MONG
DRAWN BY
E. SUDHAUSEN
CHECKED BY
M. BMM
IN CHARGE
R. COFFIN
DATE
05/18/12

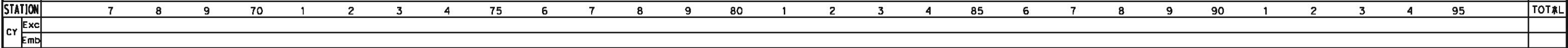
RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY PROFILE
SANTA FE AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR2202
SCALE
AS SHOWN
SHEET NO.
15 OF 19



						DESIGNED BY J. MONG	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C1 ROADWAY PROFILE SANTA FE AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN				DRAWING NO. CR2203
						CHECKED BY M. BAMM				SCALE AS SHOWN
						IN CHARGE R. COFFIN				SHEET NO. 16 OF 19
						DATE 05/18/12				
REV	DATE	BY	CHK	APP	DESCRIPTION					



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BAMM
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15X
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**

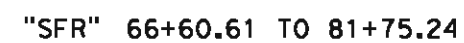


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY PROFILE
SANTA FE AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CR2204
SCALE	AS SHOWN
SHEET NO.	17 OF 19

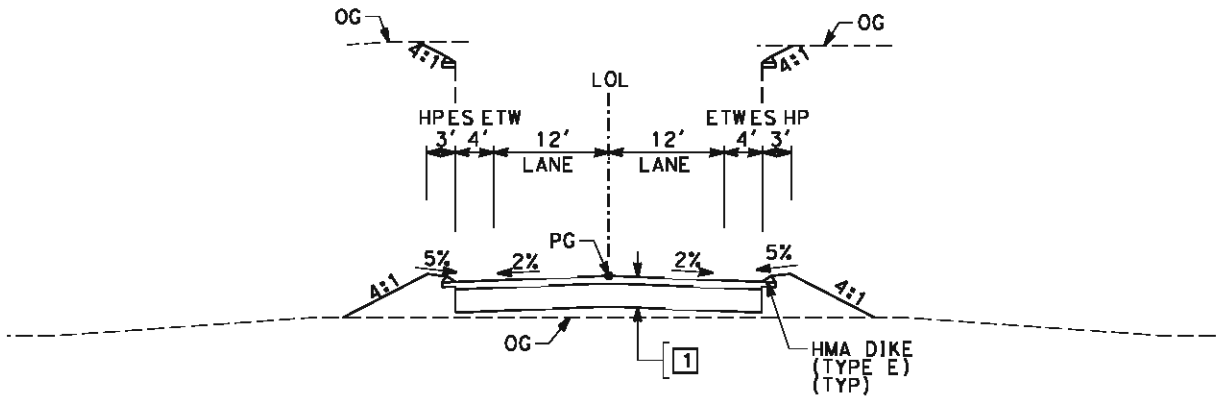
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

1-0.50' HMA (TYPE A)
1.50' CL2 AB



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SECTION C
"SFA" 38+00.00 TO 120+63.40

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. MONG
DRAWN BY E. SUDHAUSEN
CHECKED BY M. BMM
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

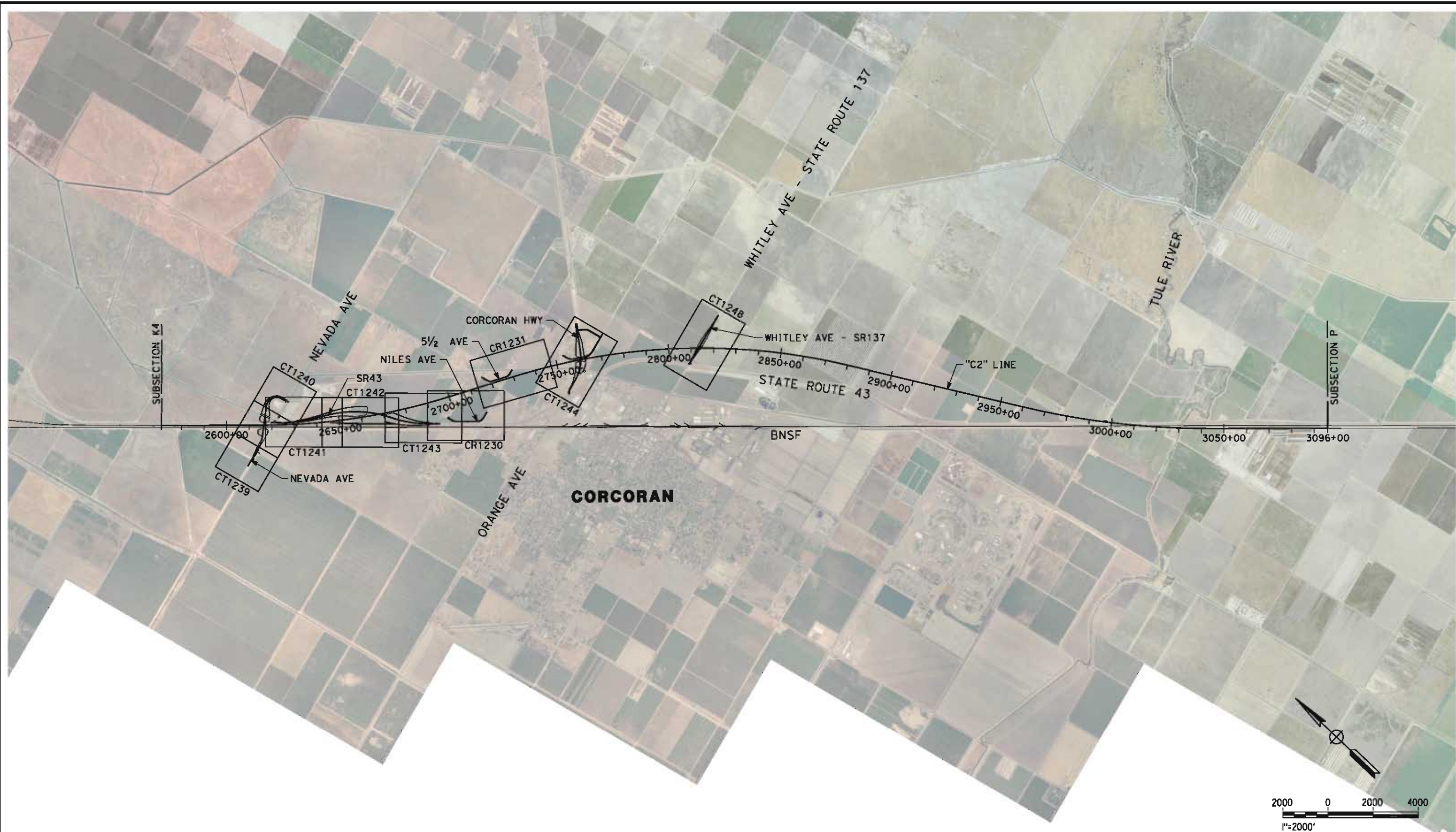
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3041
SCALE NO SCALE
SHEET NO. 19 OF 19

eron.sudhausen 5/17/2012 9:57:57 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\2\FB-CB-0075-C2.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



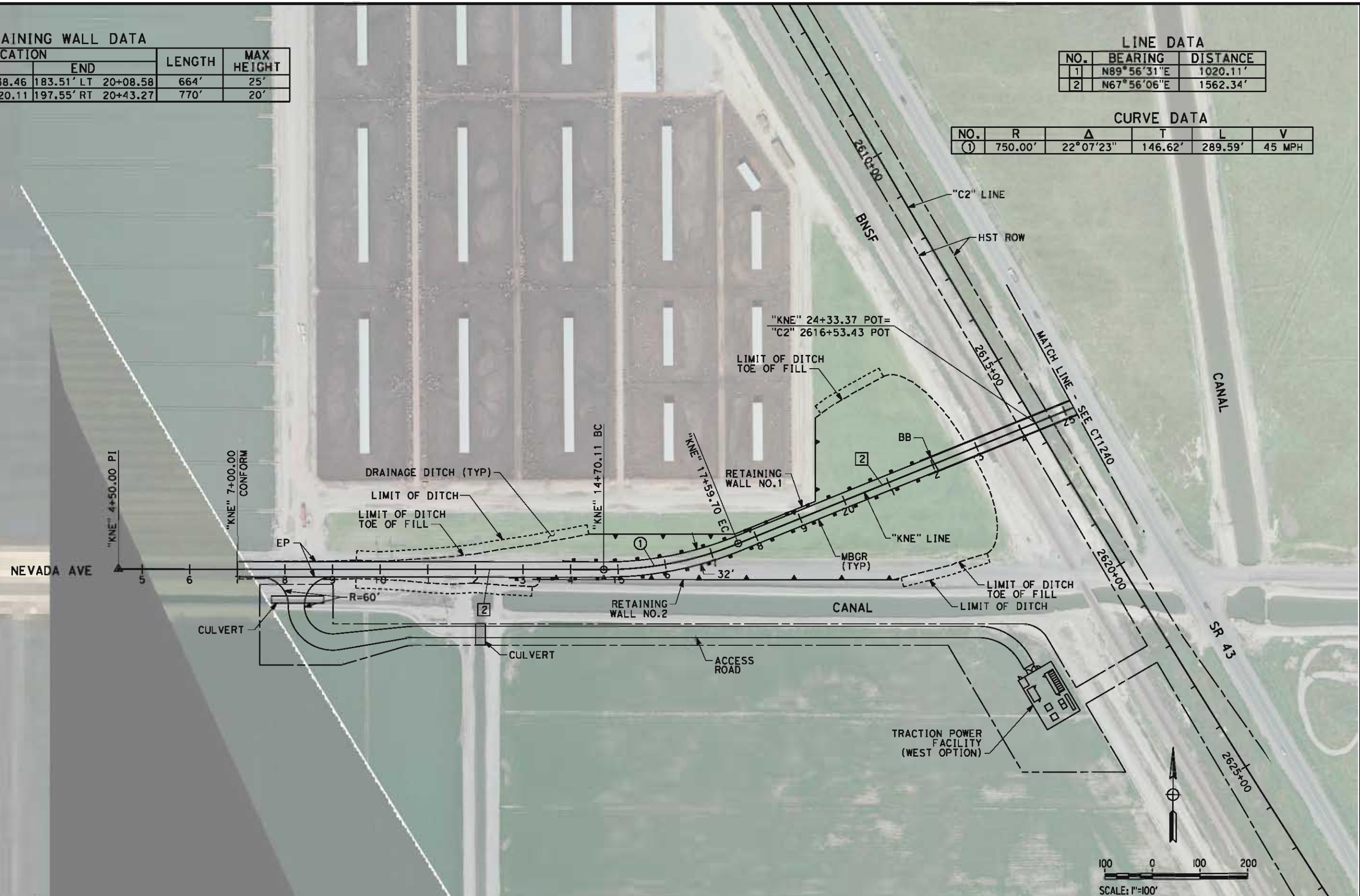
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0075
SCALE AS SHOWN
SHEET NO. 1 OF 24

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	74.36' LT 14+38.46	183.51' LT 20+08.58	664'	25'
2	21.00' RT 13+20.11	197.55' RT 20+43.27	770'	20'

LINE DATA		
NO.	BEARING	DISTANCE
1	N89°56'31"E	1020.11'
2	N67°56'06"E	1562.34'

CURVE DATA					
NO.	R	Δ	T	L	V
(1)	750.00'	22°07'23"	146.62'	289.59'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

**RECORD SET 15X
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

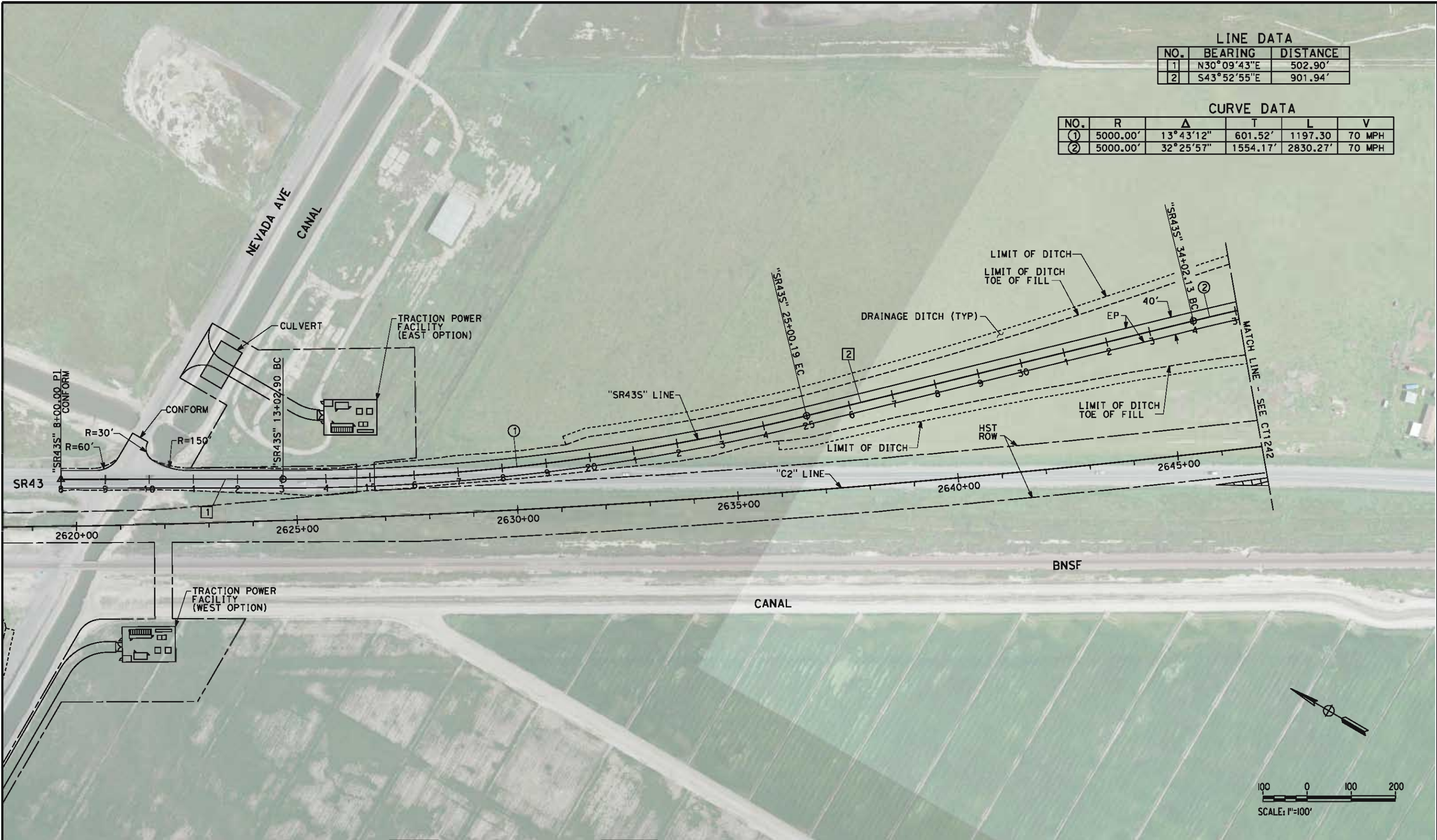
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
NEVADA AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1239
SCALE	AS SHOWN
SHEET NO.	2 OF 24

CURVE DATA					
NO.	R	Δ	T	L	V
(2)	450.00'	112°35'34"	674.65'	884.30'	35 MPH

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1240
SCALE	AS SHOWN
SHEET NO.	3 OF 24

\\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\CT1241-CT-1241-C2.dgn 5/17/2012 9:58:20 PM



LINE DATA		
NO.	BEARING	DISTANCE
1	N30°09'43"E	502.90'
2	S43°52'55"E	901.94'

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	13°43'12"	601.52'	1197.30	70 MPH
②	5000.00'	32°25'57"	1554.17'	2830.27'	70 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

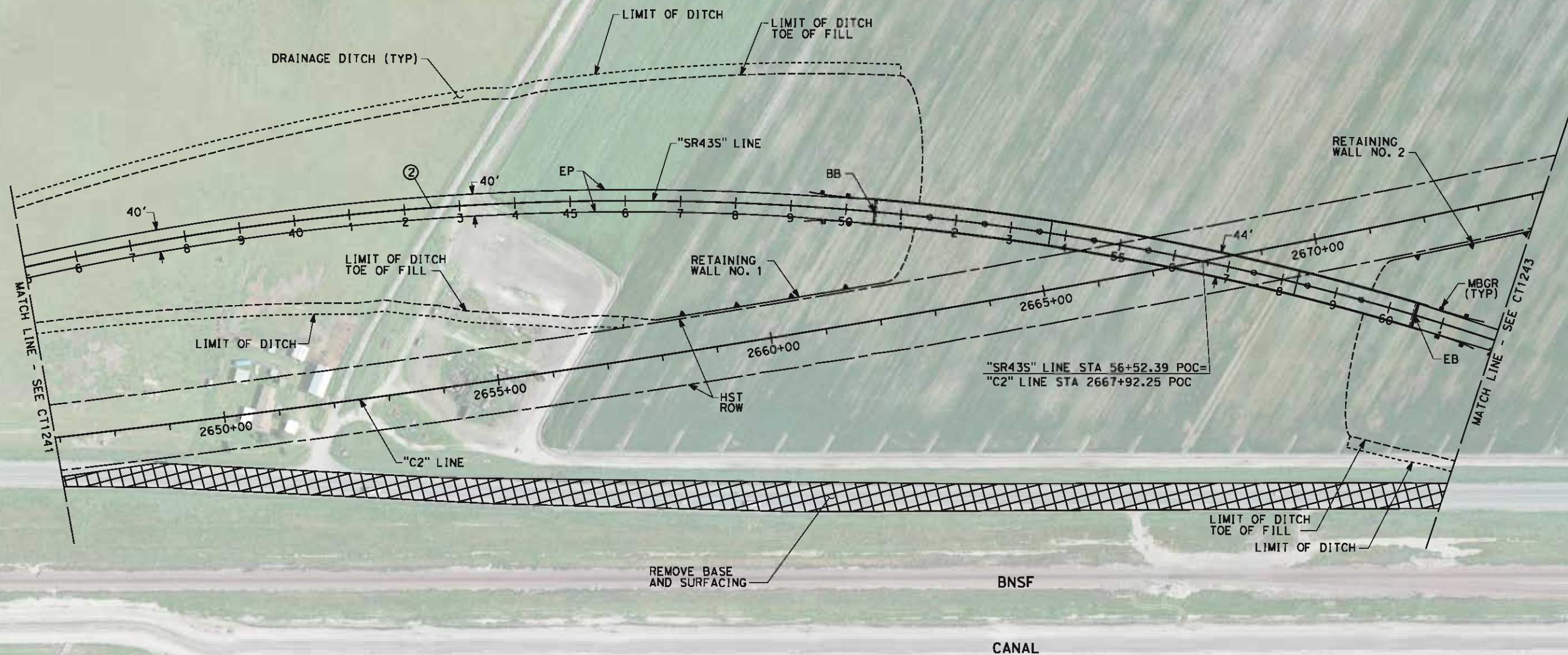


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

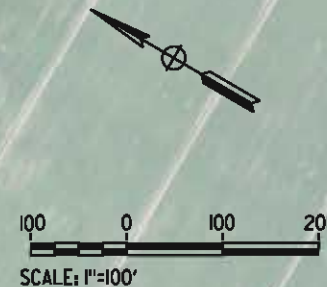
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
STATE ROUTE 43 (CORCORAN)

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1241
SCALE AS SHOWN
SHEET NO. 4 OF 24

CURVE DATA					
NO.	R	Δ	T	L	V
(2)	5000.00'	32°25'57"	1454.17'	2830.27'	70 MPH



RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	215.68' RT 46+56.39	125.27' RT 50+84.04	425'	35'
2	84.95' LT 59+83.45	228.37' LT 62+33.10	295'	35'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

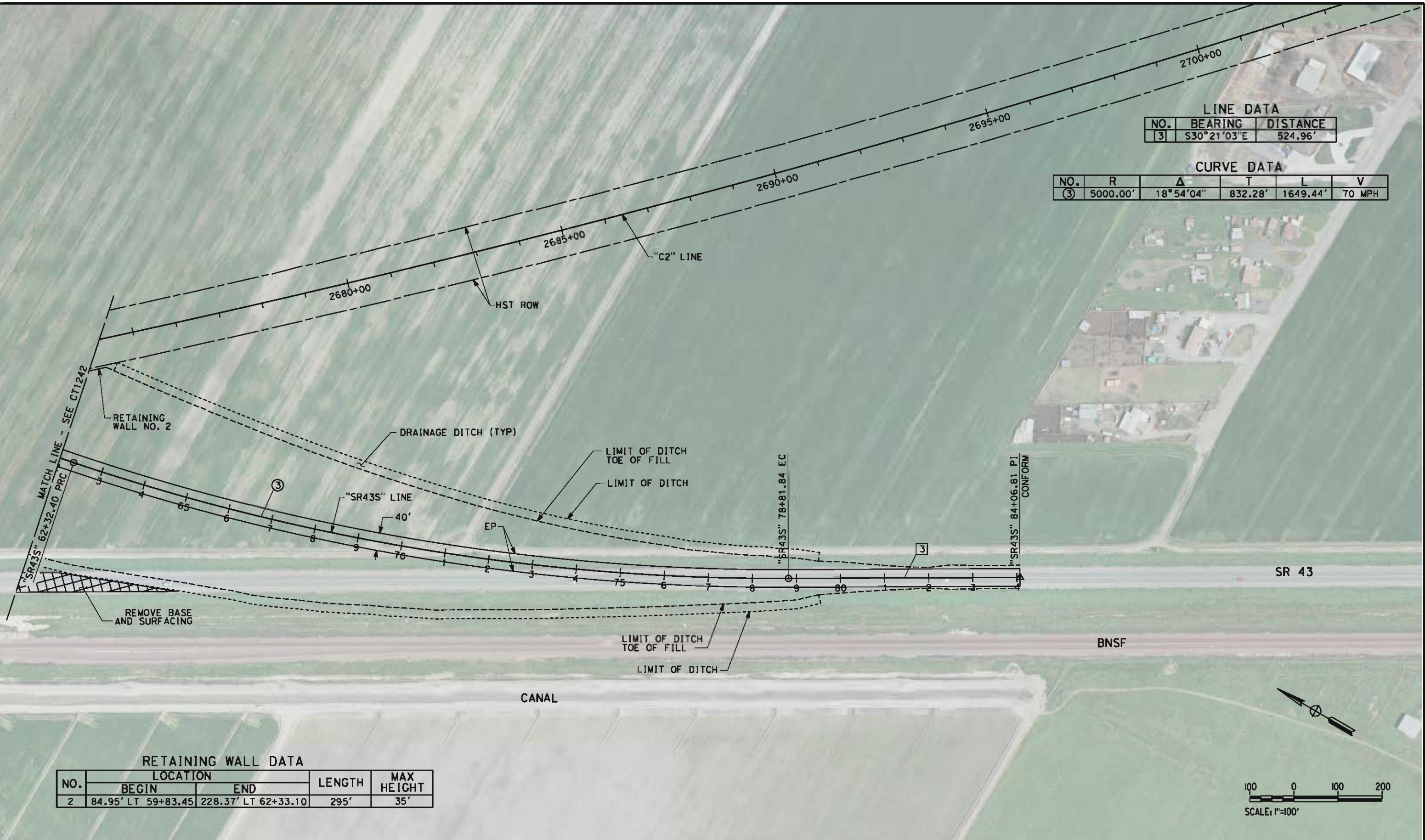
**RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
STATE ROUTE 43 (CORCORAN)**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1242
SCALE	AS SHOWN
SHEET NO.	5 OF 24

eron.sudhausen 5/17/2012 9:58:38 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\CT-1243-C2.dgn



LINE DATA		
NO.	BEARING	DISTANCE
3	S30°21'03"E	524.96'

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	18°54'04"	832.28'	1649.44'	70 MPH

RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
2	84.95' LT 59+83.45	228.37' LT 62+33.10	295'	35'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

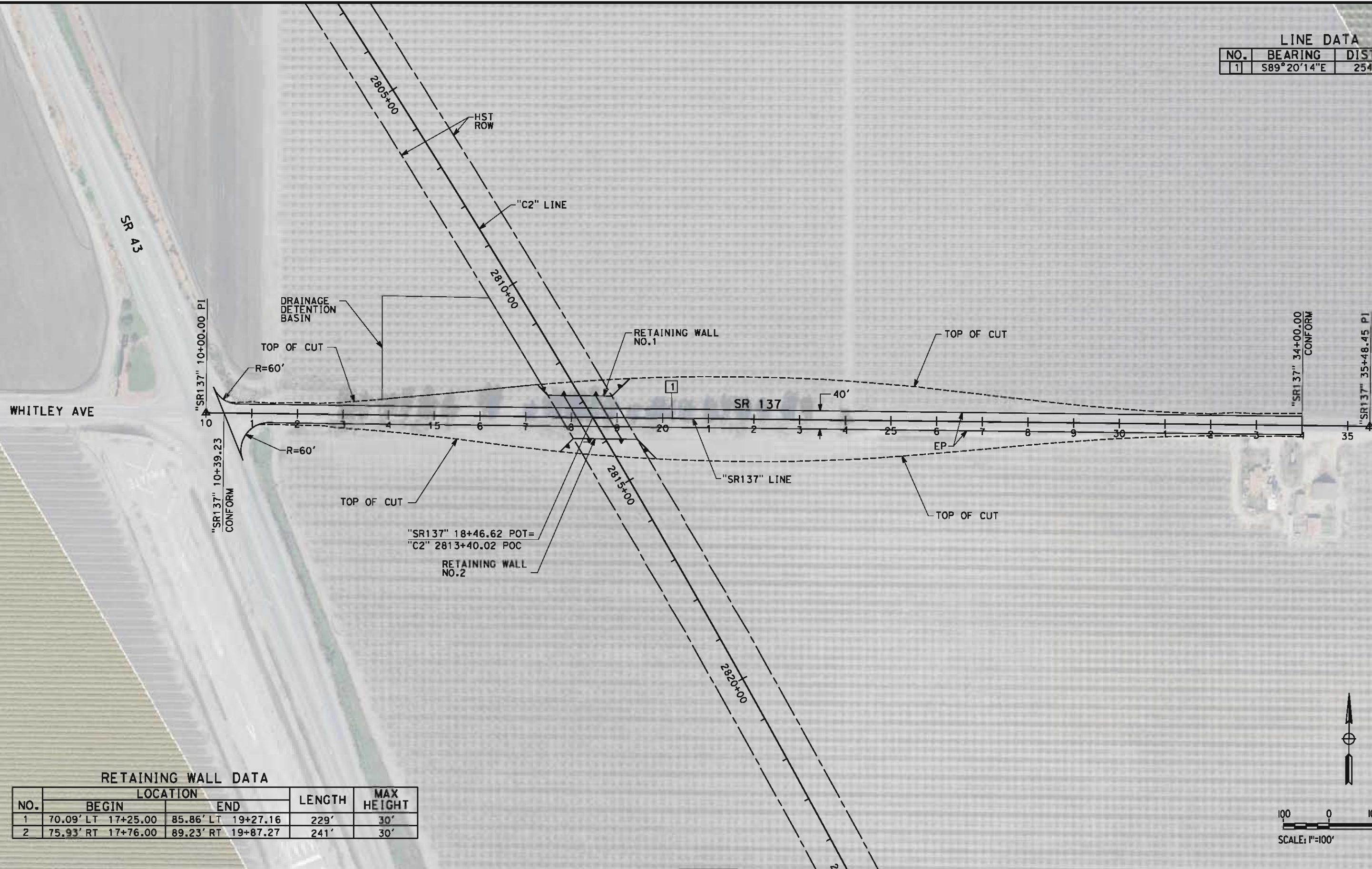


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 GRADE SEPARATION LAYOUT STATE ROUTE 43 (CORCORAN)
--

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1243
SCALE AS SHOWN
SHEET NO. 6 OF 24

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LINE DATA		
NO.	BEARING	DISTANCE
1	S89°20'14"E	2548.45'



RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	70.09' LT 17+25.00	85.86' LT 19+27.16	229'	30'
2	75.93' RT 17+76.00	89.23' RT 19+87.27	241'	30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

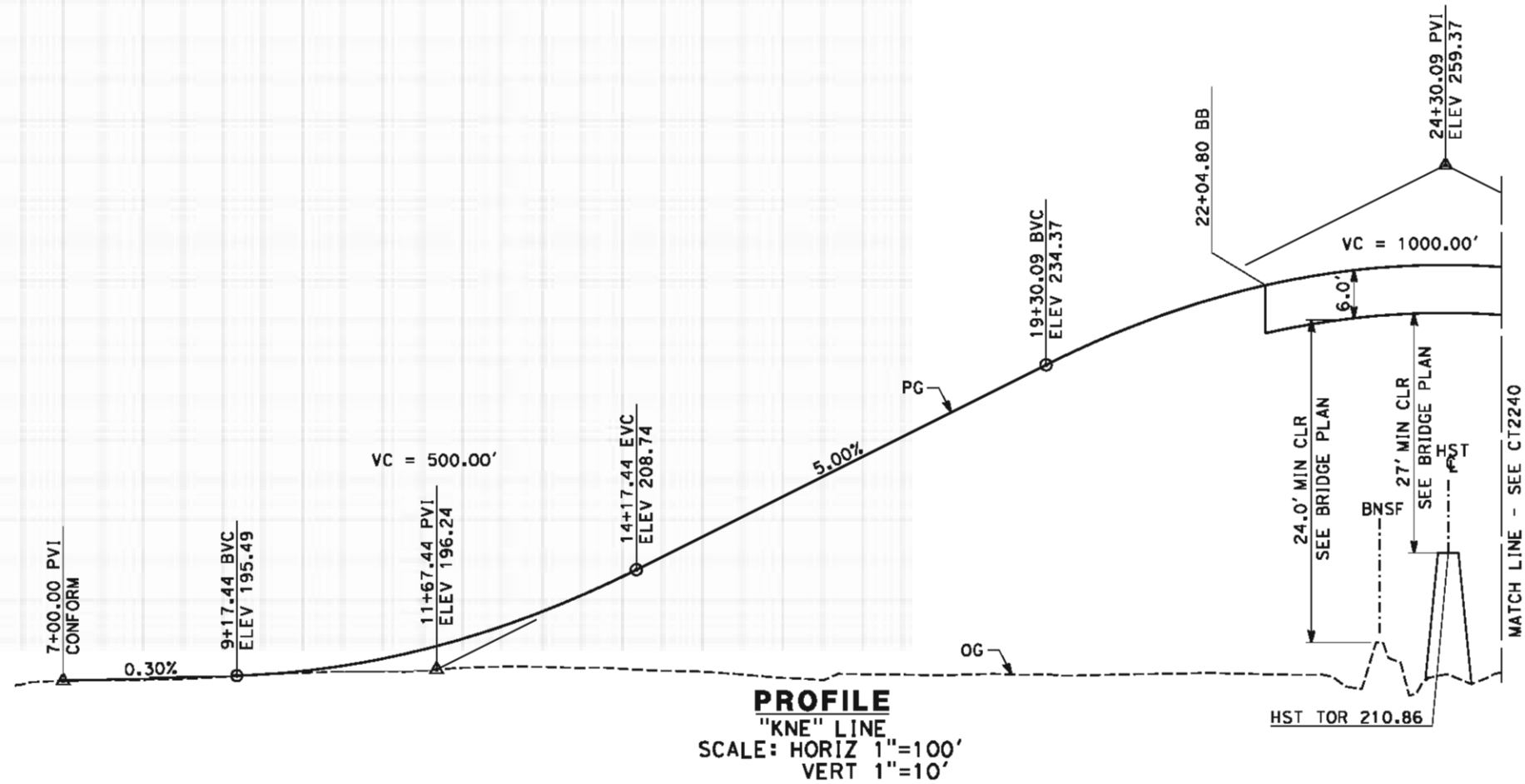


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 GRADE SEPARATION LAYOUT WHITLEY AVE/STATE ROUTE 137
--

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1248
SCALE AS SHOWN
SHEET NO. 8 OF 24

eron-sudhausen 5/17/2012 9:58:59 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Design Sheets\Highway\C2\FB-CT-2239-C2.dgn

- NOTES:
- 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
 - 2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24.0' FROM TOP OF RAIL
 - 3. MINIMUM VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY
 - 4. VERTICAL DESIGN SPEED = 45 MPH
 - 5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	4	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	TOTAL
Exc																							
Emb																							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

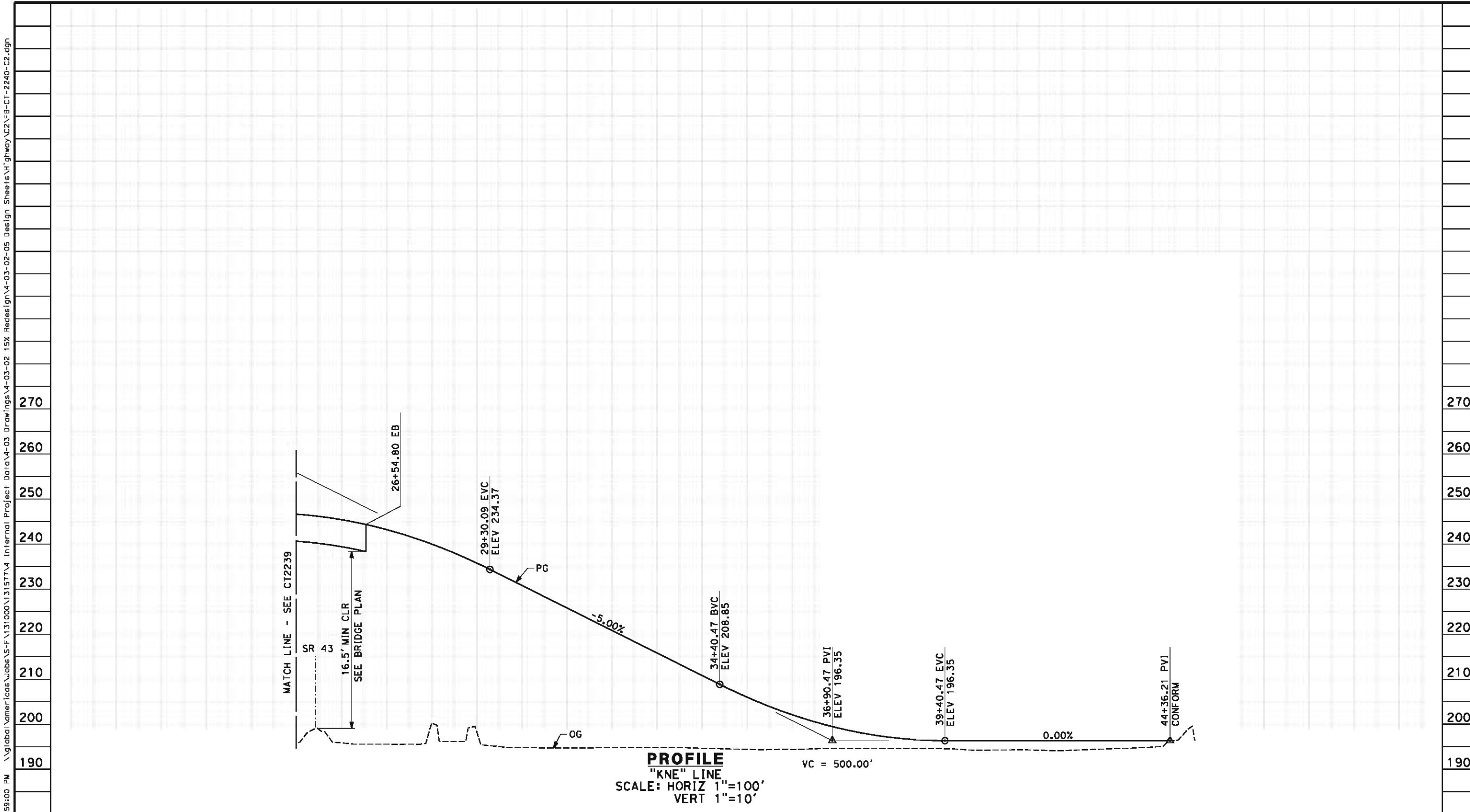
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
NEVADA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2239
SCALE AS SHOWN
SHEET NO. 9 OF 24

eron.sudhausen 5/17/2012 9:59:00 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign Sheets\Highway\C2\FB-CT-2240-C2.dgn



STATION		25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	TOTAL
CY	Exc																						
	Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

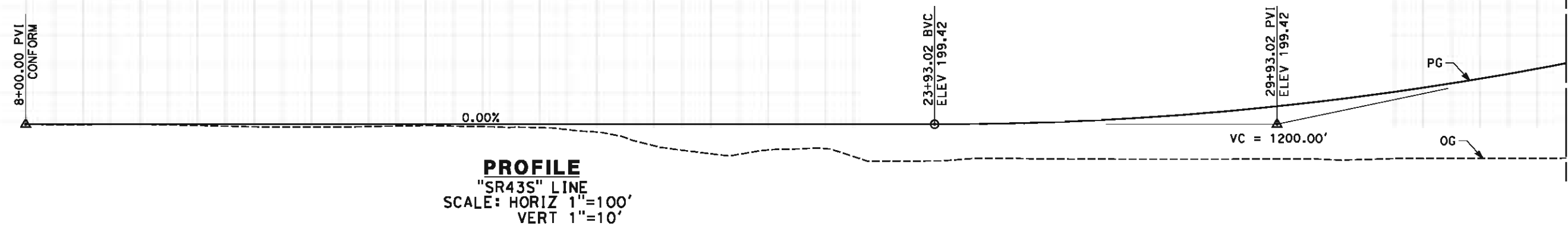
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
NEVADA AVE

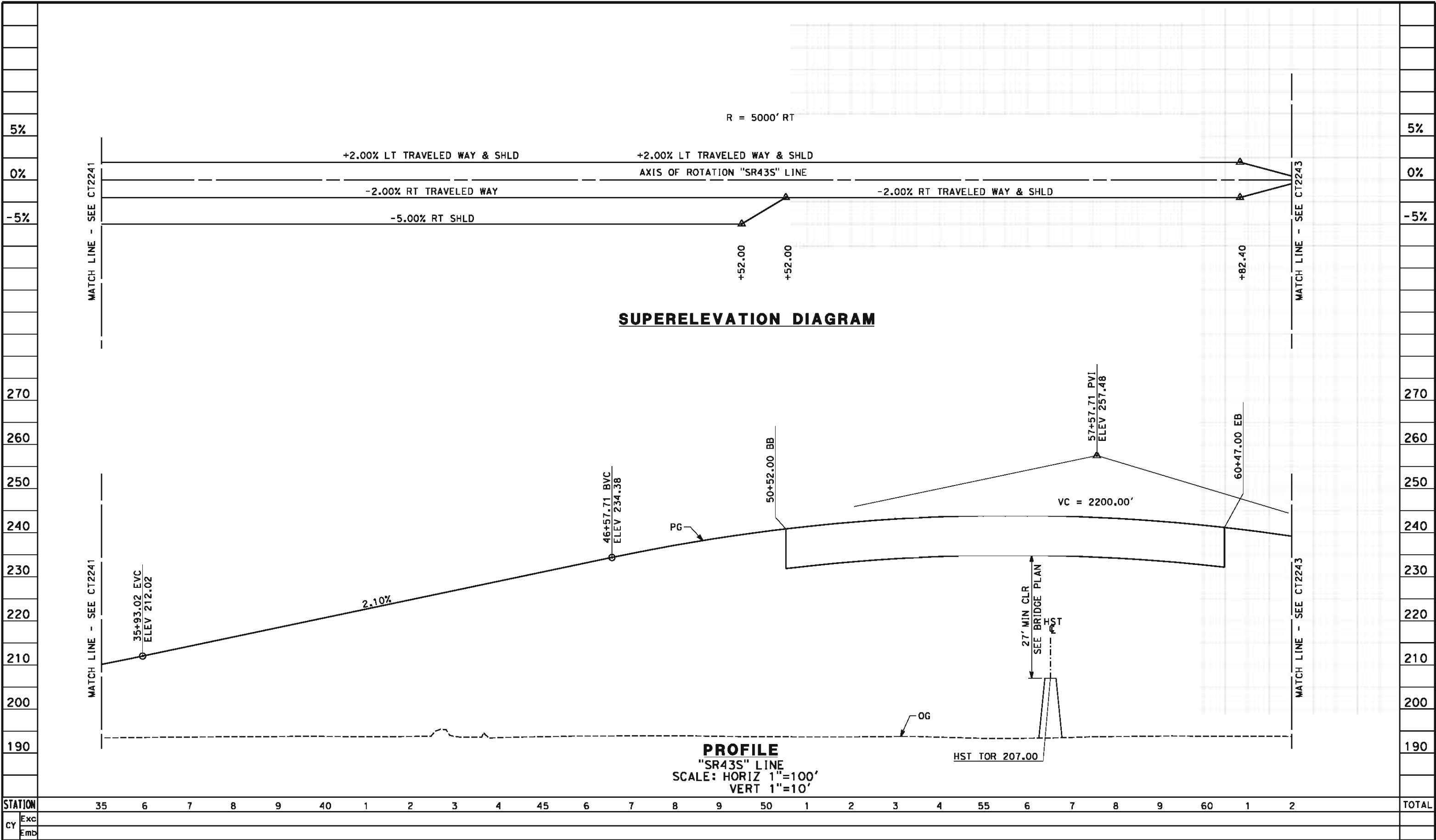
CONTRACT NO. HSR 06-0003
DRAWING NO. CT2240
SCALE AS SHOWN
SHEET NO. 10 OF 24

3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

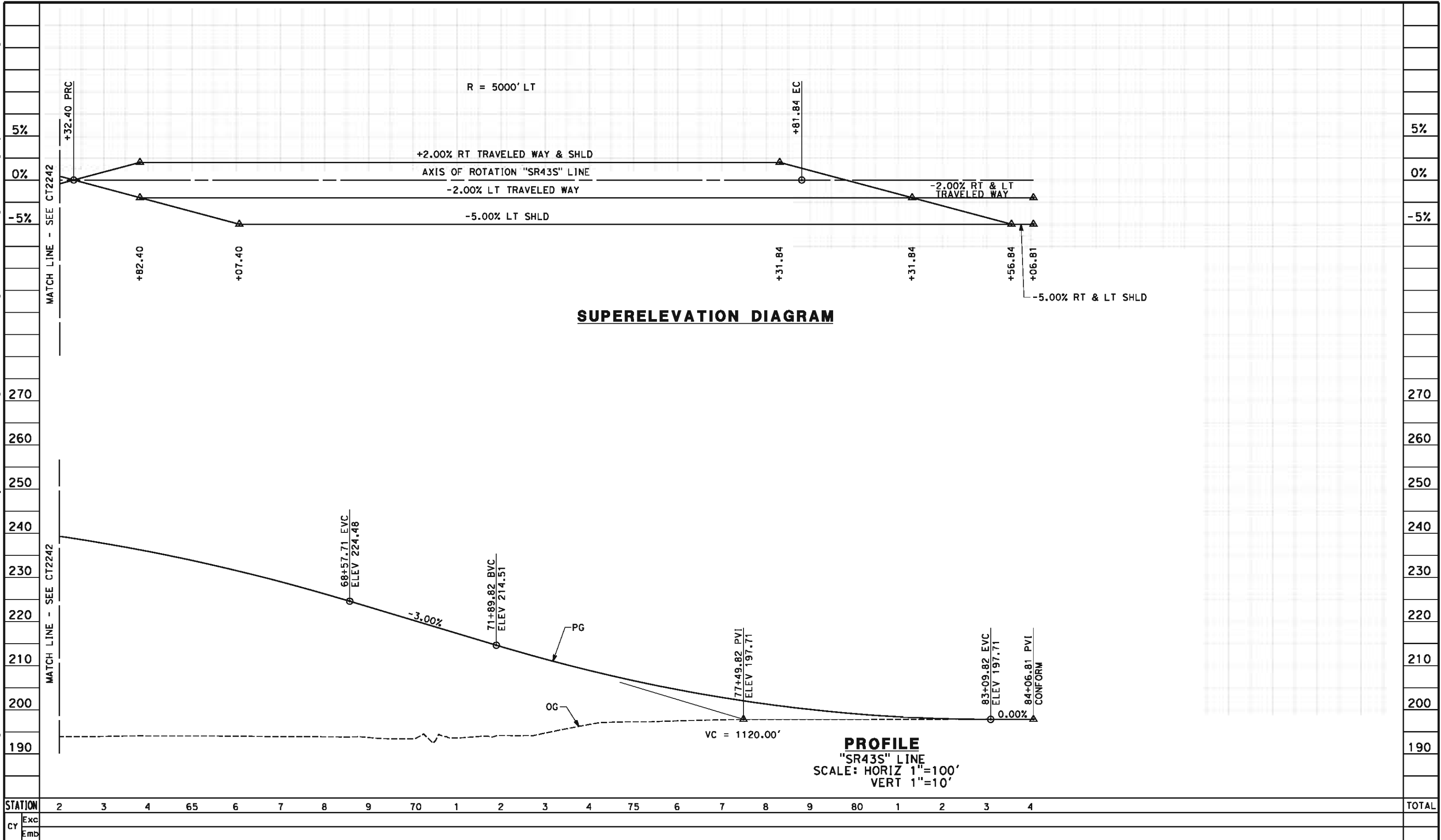
[illegible]

						DESIGNED BY M. BAMM	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (CORCORAN)	CONTRACT NO. HSR 06-0003
						DRAWN BY E. SUDHAUSEN				DRAWING NO. CT2241
						CHECKED BY J. MONG				SCALE AS SHOWN
						IN CHARGE R. COFFIN				SHEET NO. 11 OF 24
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12				

eron.sudhausen 5/17/2012 9:59:03 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\Highway\CT-2242-C2.dgn

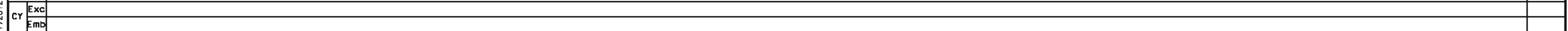


						DESIGNED BY M. BAMB	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (CORCORAN)						CONTRACT NO. HSR 06-0003			
						DRAWN BY E. SUDHAUSEN									DRAWING NO. CT2242			
						CHECKED BY J. MONG									SCALE AS SHOWN			
						IN CHARGE R. COFFIN									SHEET NO. 12 OF 24			
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12												



						DESIGNED BY M. BAMM	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (CORCORAN)	CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN	DRAWING NO. CT2243					
					CHECKED BY J. MONG	SCALE AS SHOWN					
					IN CHARGE R. COFFIN	SHEET NO. 13 OF 24					
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 05/18/12					

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE
3. VERTICAL DESIGN SPEED = 45 MPH
4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



DESIGNED BY M. BAMM
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

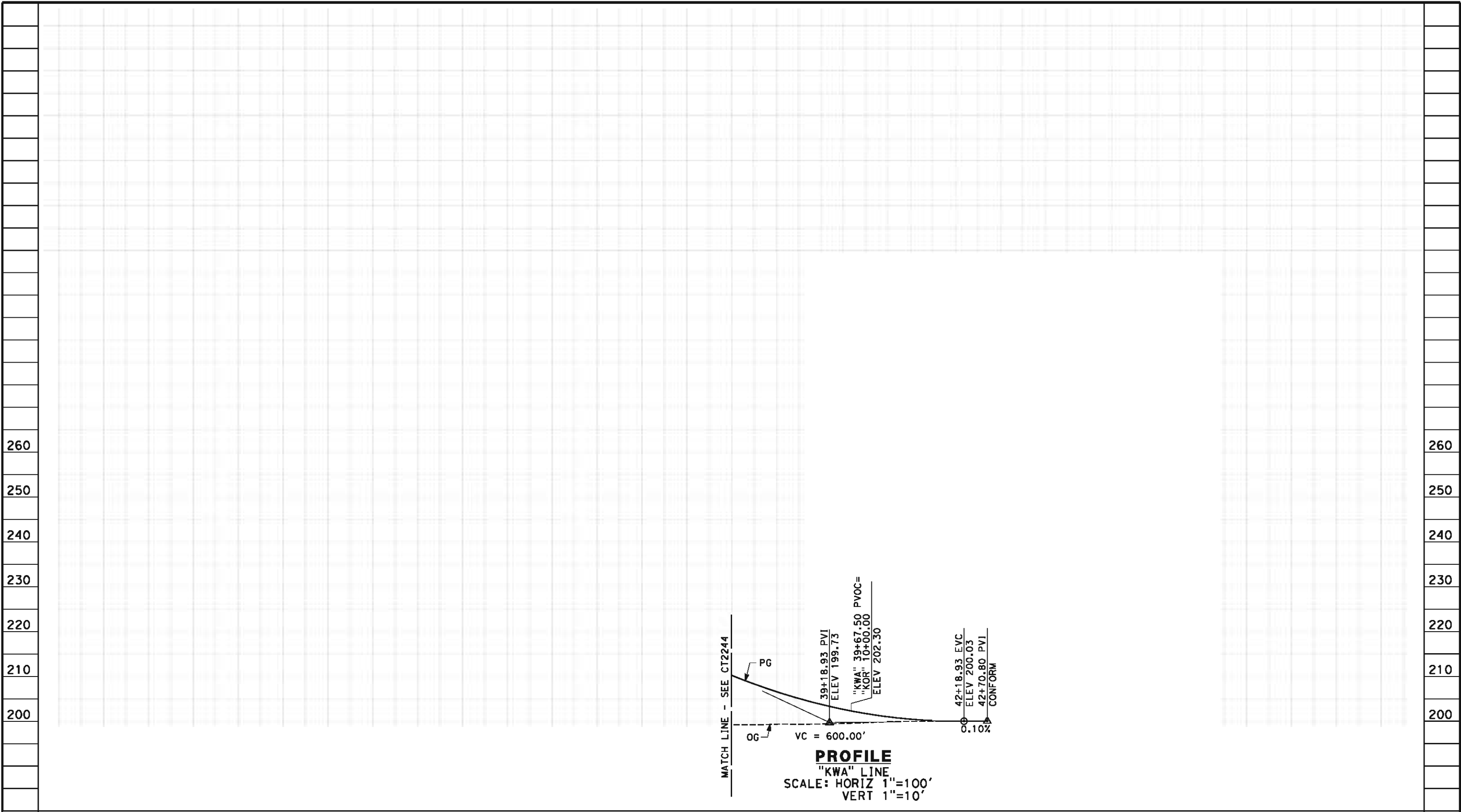


URS | HMM | ARUP



CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2244
SCALE	AS SHOWN
SHEET NO.	14 OF 24

eron.sudhausen 5/17/2012 9:59:08 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign Sheets\Highway\C2\FB-CT-2245-C2.dgn



STATION		7	8	9	40	1	2	3	TOTAL
CY	Exc								
	Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

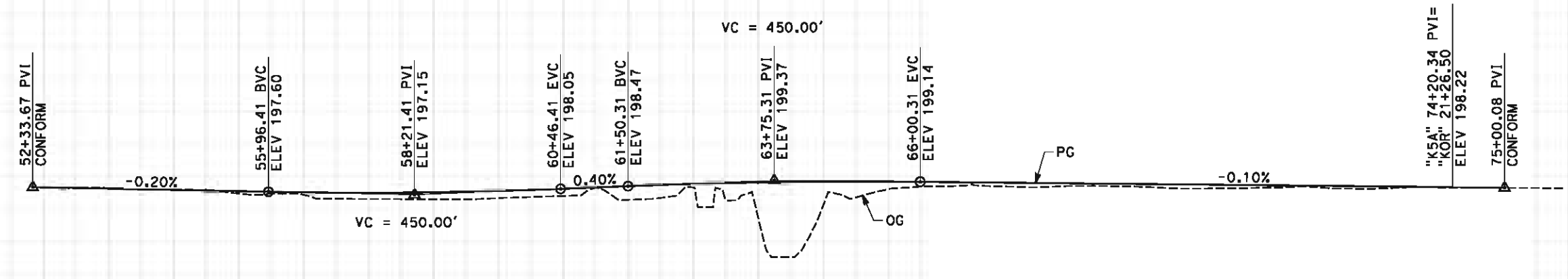


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 GRADE SEPARATION PROFILE CORCORAN HWY
CONTRACT NO. HSR 06-0003
DRAWING NO. CT2245
SCALE AS SHOWN

SHEET NO. 15 OF 24

eron.sudhausen 5/17/2012 9:59:09 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign\Highway\CT2246-CT-2246-C2.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 35 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. REFER TO DRAWING CT1244 FOR LAYOUT



PROFILE
"K5A" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	2	3	4	75	6	TOTAL
Exc																										
Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
5TH AVE

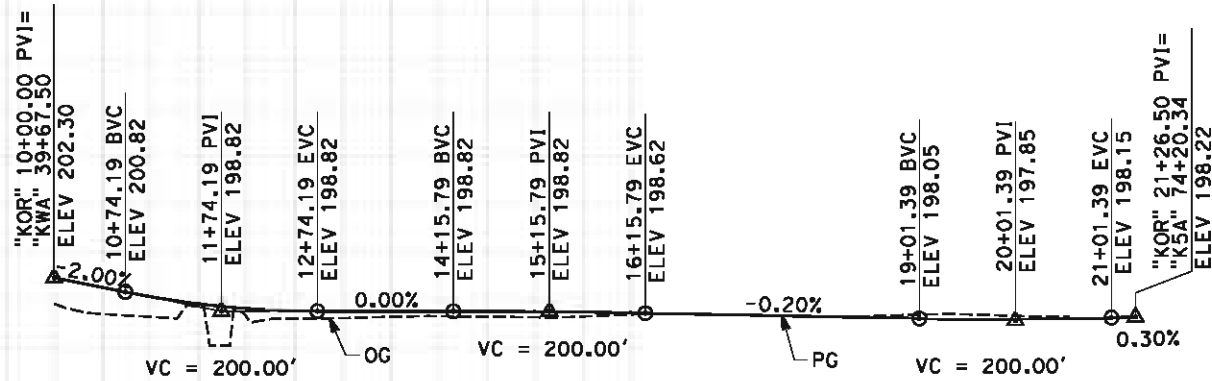
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2246
SCALE
AS SHOWN
SHEET NO.
16 OF 24

eron.sudhausen 5/17/2012 9:59:10 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign Sheets\Highway\C2\FB-CT-2247-C2.dgn

NOTES:

- 1. VERTICAL DESIGN SPEED = 35 MPH
- 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
- 3. REFER TO DRAWING CT1244 FOR LAYOUT

230
220
210
200
190



230
220
210
200
190

PROFILE
"KOR" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	TOTAL
CY	Exc															
	Emb															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
ORANGE AVE CONNECTOR

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2247
SCALE
AS SHOWN
SHEET NO.
17 OF 24

1. MINIMUM VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROAD SURFACE
2. VERTICAL DESIGN SPEED = 55 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



"SR137" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

27					
	REV	DATE	BY	CHK	APP
	DESCRIPTION				

DESIGNED BY	M. BAMB
DRAWN BY	E. SUDHAUSEN
CHECKED BY	J. MONG
IN CHARGE	R. COFFIN
DATE	05/18/12

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



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
WHITLEY AVE/STATE ROUTE 137**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2248
SCALE	AS SHOWN
SHEET NO.	18 OF 24

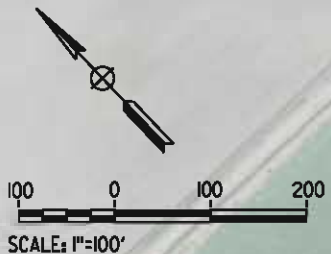
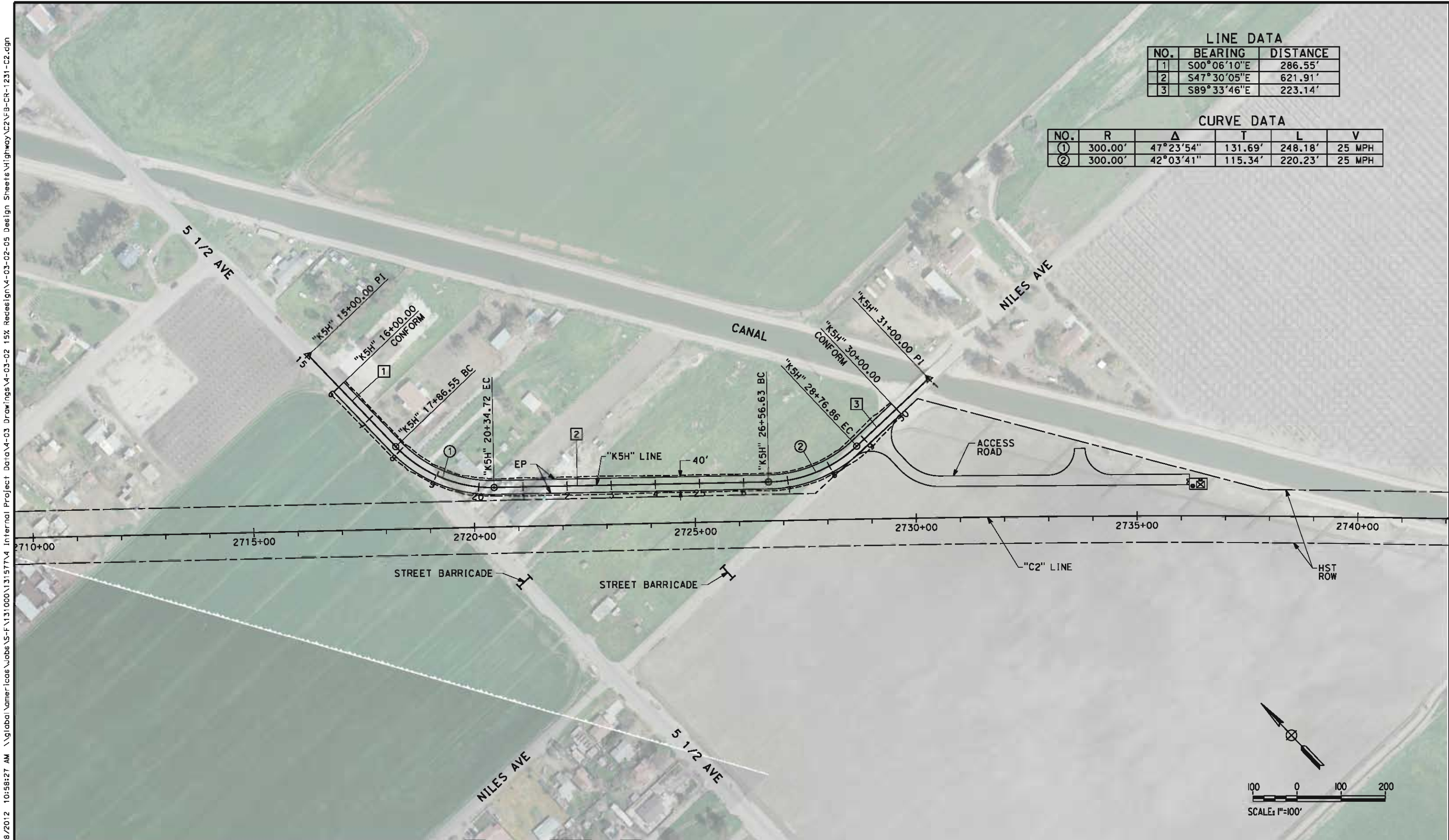
NO.	R	Δ	T	L	V
①	300.00'	31°10'53"	83.71'	163.27'	25 MPH
②	300.00'	58°55'01"	169.45'	308.49'	25 MPH

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CR1230
SCALE	AS SHOWN
SHEET NO.	19 OF 24

eron.sudhausen 5/18/2012 10:58:27 AM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\CR-1231-C2.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S00°06'10"E	286.55'
2	S47°30'05"E	621.91'
3	S89°33'46"E	223.14'

CURVE DATA					
NO.	R	Δ	T	L	V
①	300.00'	47°23'54"	131.69'	248.18'	25 MPH
②	300.00'	42°03'41"	115.34'	220.23'	25 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

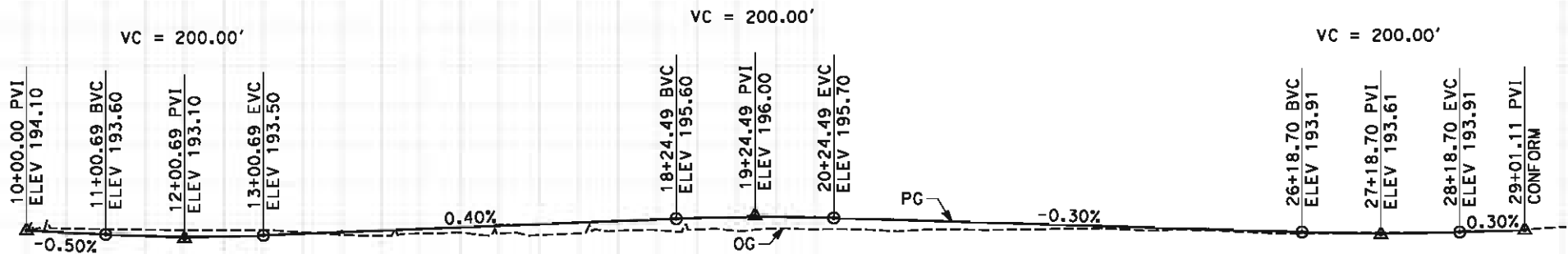


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY LAYOUT
5 1/2 AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1231
SCALE AS SHOWN
SHEET NO. 20 OF 24

eron.sudhausen 5/17/2012 9:59:35 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 15% Redesign Sheets\Highway\C2\FB-CR-2230-C2.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 25 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



PROFILE
"KNW" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	TOTAL
Exc																						
Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BAMB
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
R. COFFIN
DATE
05/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

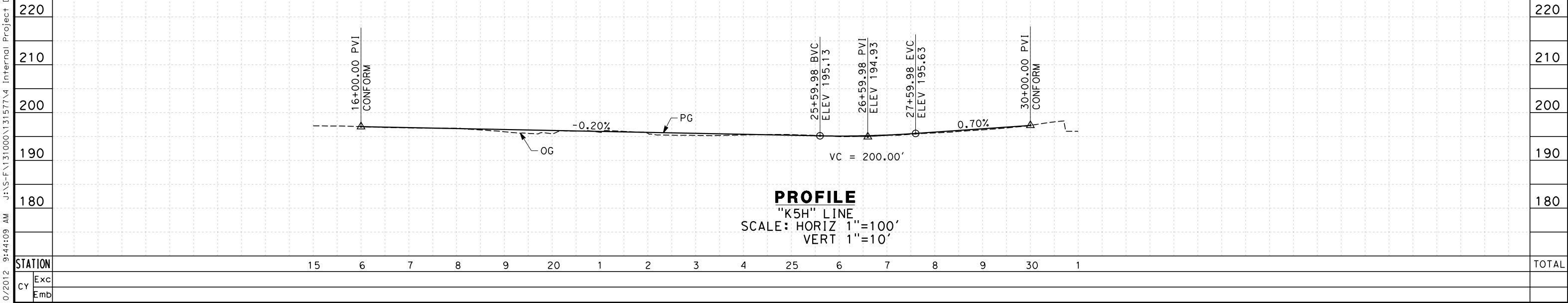




CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY PROFILE
NILES AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR2230
SCALE
AS SHOWN
SHEET NO.
21 OF 24

J:\S-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02-05 Design Sheets\Highway\CR-2231-C2.dgn 7/10/2012 9:44:09 AM eron.sudhausen

- NOTES:
- 1. VERTICAL DESIGN SPEED = 45 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM

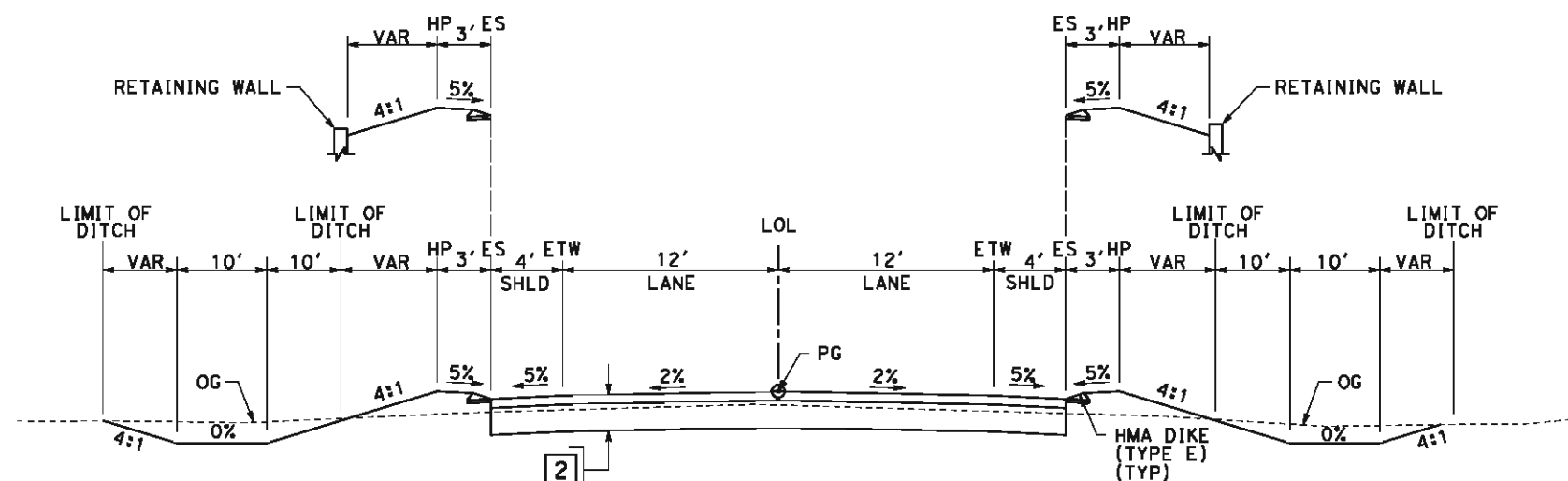


eron, sudhausen							DESIGNED BY M. BAMB	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 ROADWAY PROFILE 5 1/2 AVE	CONTRACT NO. HSR 06-0003
							DRAWN BY E. SUDHAUSEN					DRAWING NO. CR2231
							CHECKED BY J. MONG					SCALE AS SHOWN
							IN CHARGE R. COFFIN					SHEET NO. 22 OF 24
							DATE 05/18/12					
REV	DATE	BY	CHK	APP	DESCRIPTION							

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

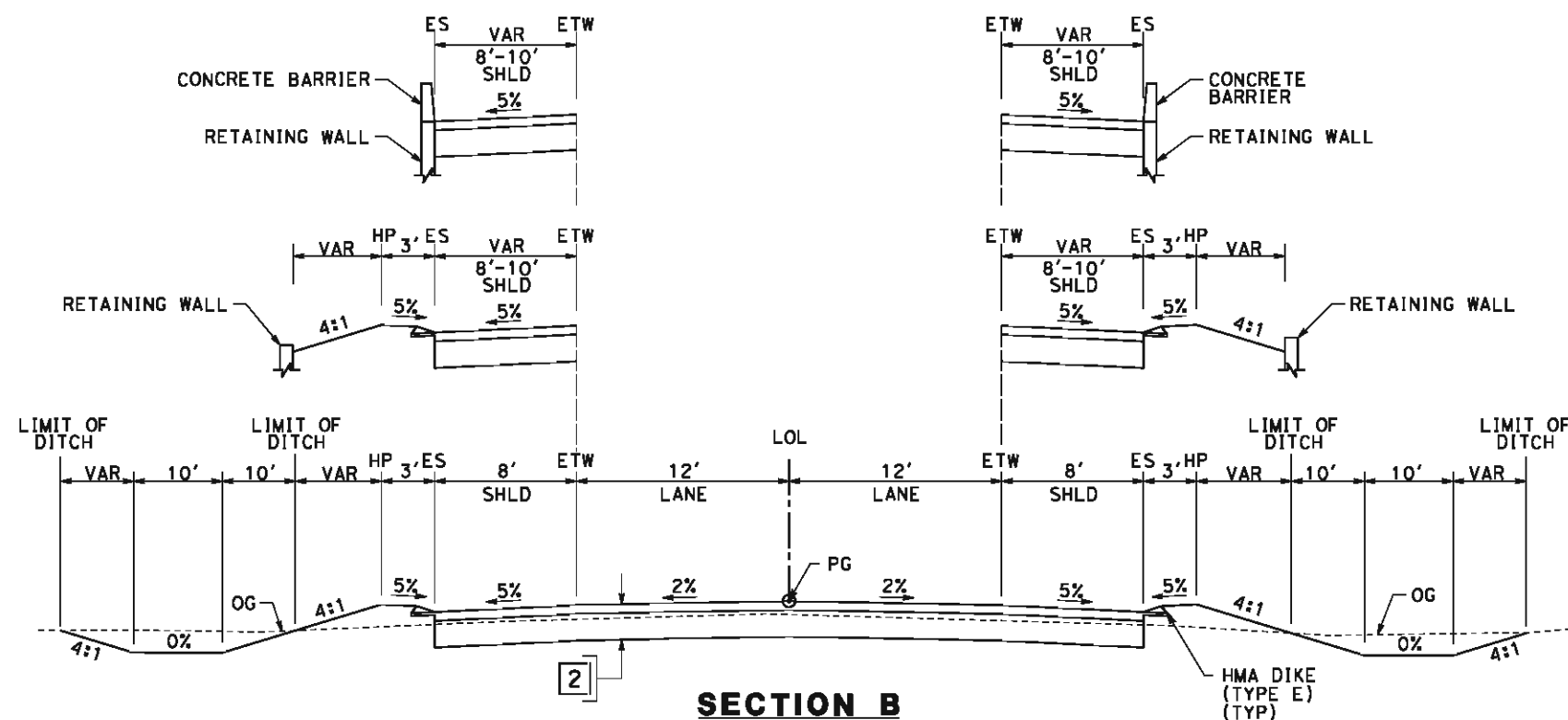
TYPICAL ROADWAY

- | | |
|---|-------------------------------------|
| 1 | 0.30' HMA (TYPE A)
1.40' CL 2 AB |
| 2 | 0.50' HMA (TYPE A)
1.50' CL 2 AB |



SECTION A

"KNE" 07+00.00 TO 22+04.80
"KNE" 26+54.80 TO 44+36.21

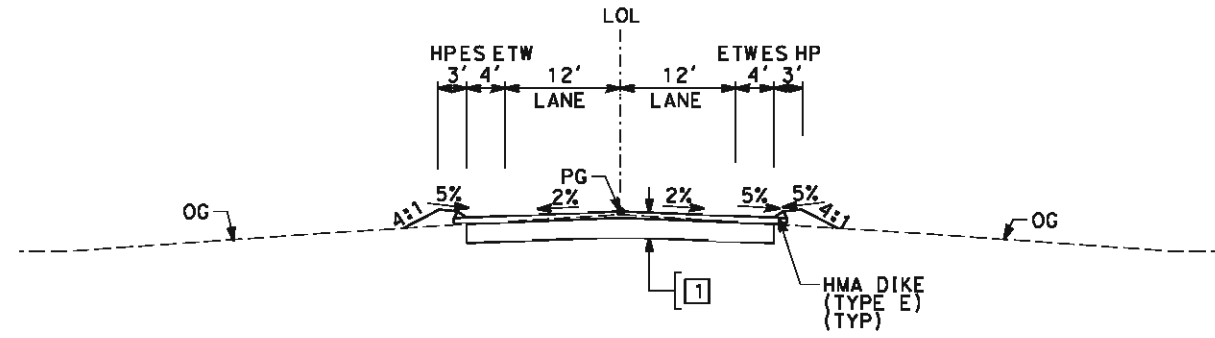


SECTION B

"SR43S"	8+00.00	TO	50+52.00
"SR43S"	60+47.00	TO	84+06.81
"KWA"	10+57.54	TO	21+15.00
"KWA"	28+45.00	TO	42+70+80

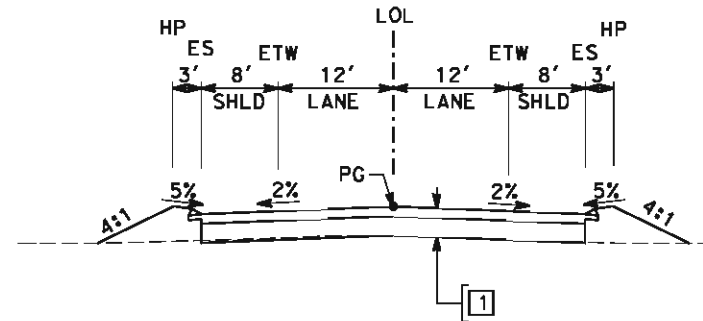
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eron.sudhausen 5/17/2012 9:59:38 PM \\global\americas\Jobs\5-F\131000\131577\4 Internal Project Data\4-03 Drawings\4-03-02 15% Redesign\4-03-02 Design Sheets\Highway\C2\FB-CT-3043-C2.dgn



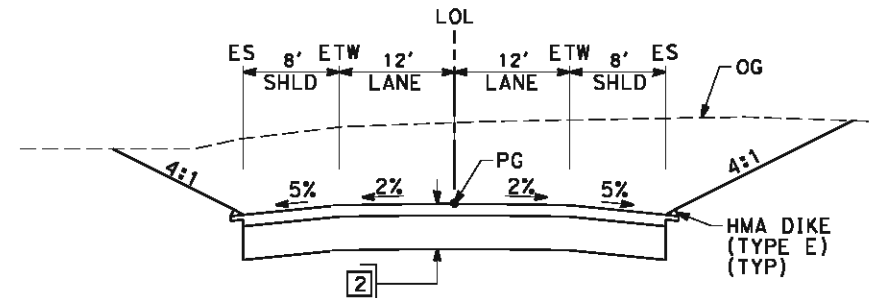
SECTION C

"KNW" 10+00.00 TO 29+01.11
"K5H" 16+00.00 TO 30+00.00
"K5A" 52+33.67 TO 75+00.08



SECTION D

"KOR" 10+00.00 TO 21+26.50



SECTION E

"SR137" 10+39.23 TO 34+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BAMB
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 05/18/12

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 ROADWAY / GRADE SEPARATION TYPICAL CROSS SECTIONS
--

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3043
SCALE NO SCALE
SHEET NO. 24 OF 24



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA
AVENUE 144	2995+60.00

corlton_allen 5/16/2012 2:12:21 PM HSTFB_C3_K01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0080
SCALE
AS SHOWN
SHEET NO.
1 OF 43

cor/for_allen 5/16/2012 2:13:21 PM HSTFB_C3_CHARLES_L01.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°52'29"E	312.76'
2	N65°20'19"E	525.76'

CURVE DATA					
NO.	R	Δ	T	L	V
①	300.00'	24°47'13"	65.92'	129.78'	25 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

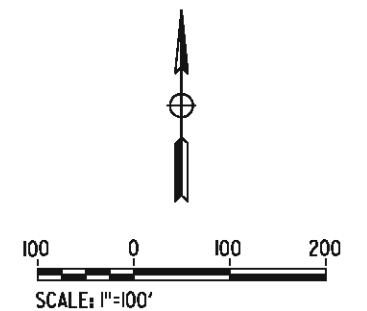
RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

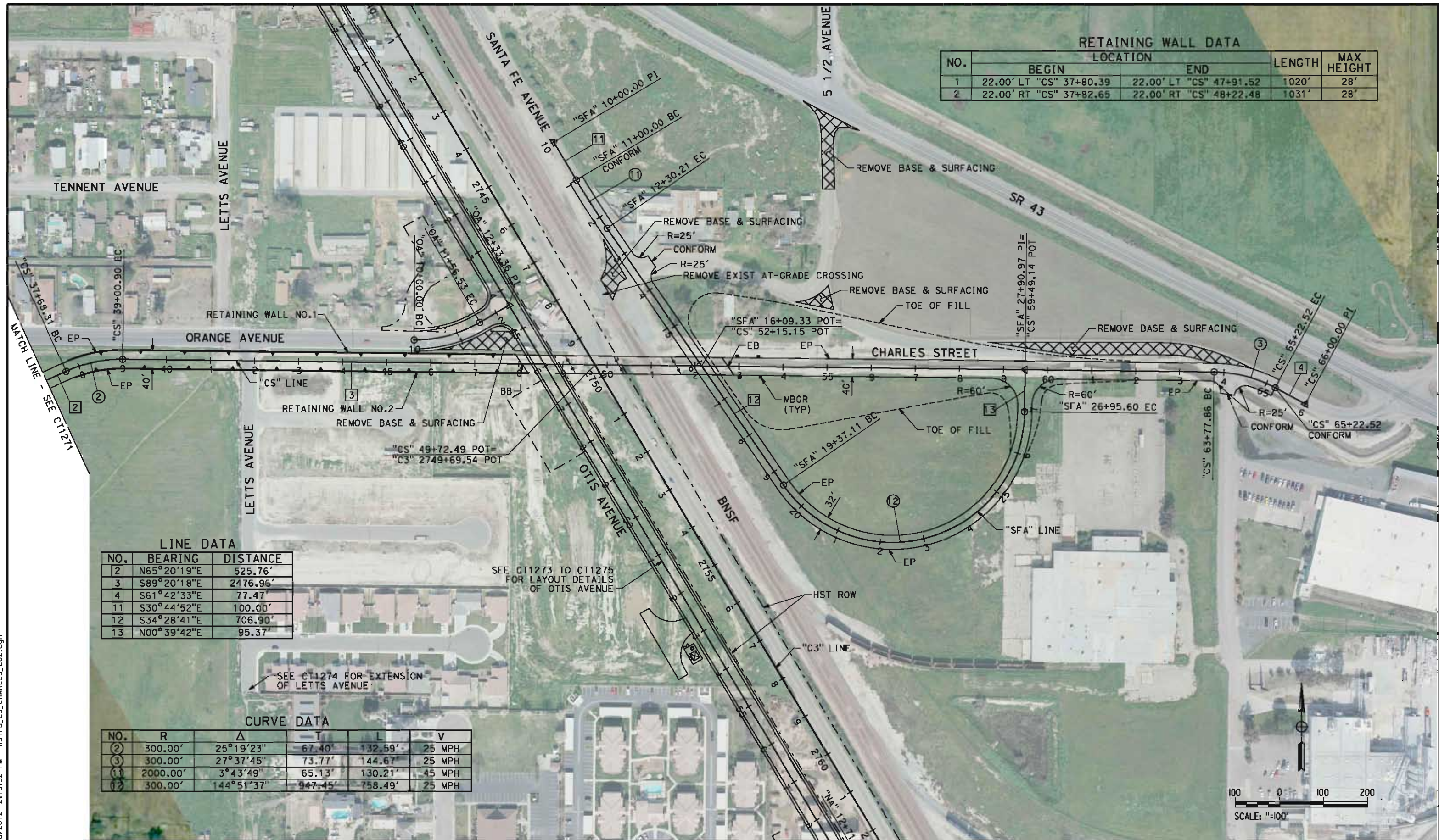


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
CHARLES ST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1271
SCALE
AS SHOWN
SHEET NO.
2 OF 43



cor/ton_allen 5/16/2012 2:13:32 PM HSTFB_C1_CHARLES_L02.dgn



RETAINING WALL DATA					
NO.	LOCATION		LENGTH	MAX HEIGHT	
	BEGIN	END			
1	22.00' LT "CS" 37+80.39	22.00' LT "CS" 47+91.52	1020'	28'	
2	22.00' RT "CS" 37+82.65	22.00' RT "CS" 48+22.48	1031'	28'	

LINE DATA		
NO.	BEARING	DISTANCE
2	N65°20'19"E	525.76'
3	S89°20'18"E	2476.96'
4	S61°42'33"E	77.47'
11	S30°44'52"E	100.00'
12	S34°28'41"E	706.90'
13	N00°39'42"E	95.37'

CURVE DATA					
NO.	R	Δ	T	L	V
2	300.00'	25°19'23"	67.40'	132.59'	25 MPH
3	300.00'	27°37'45"	73.77'	144.67'	25 MPH
11	2000.00'	3°43'49"	65.13'	130.21'	45 MPH
12	300.00'	144°51'37"	947.45'	758.49'	25 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

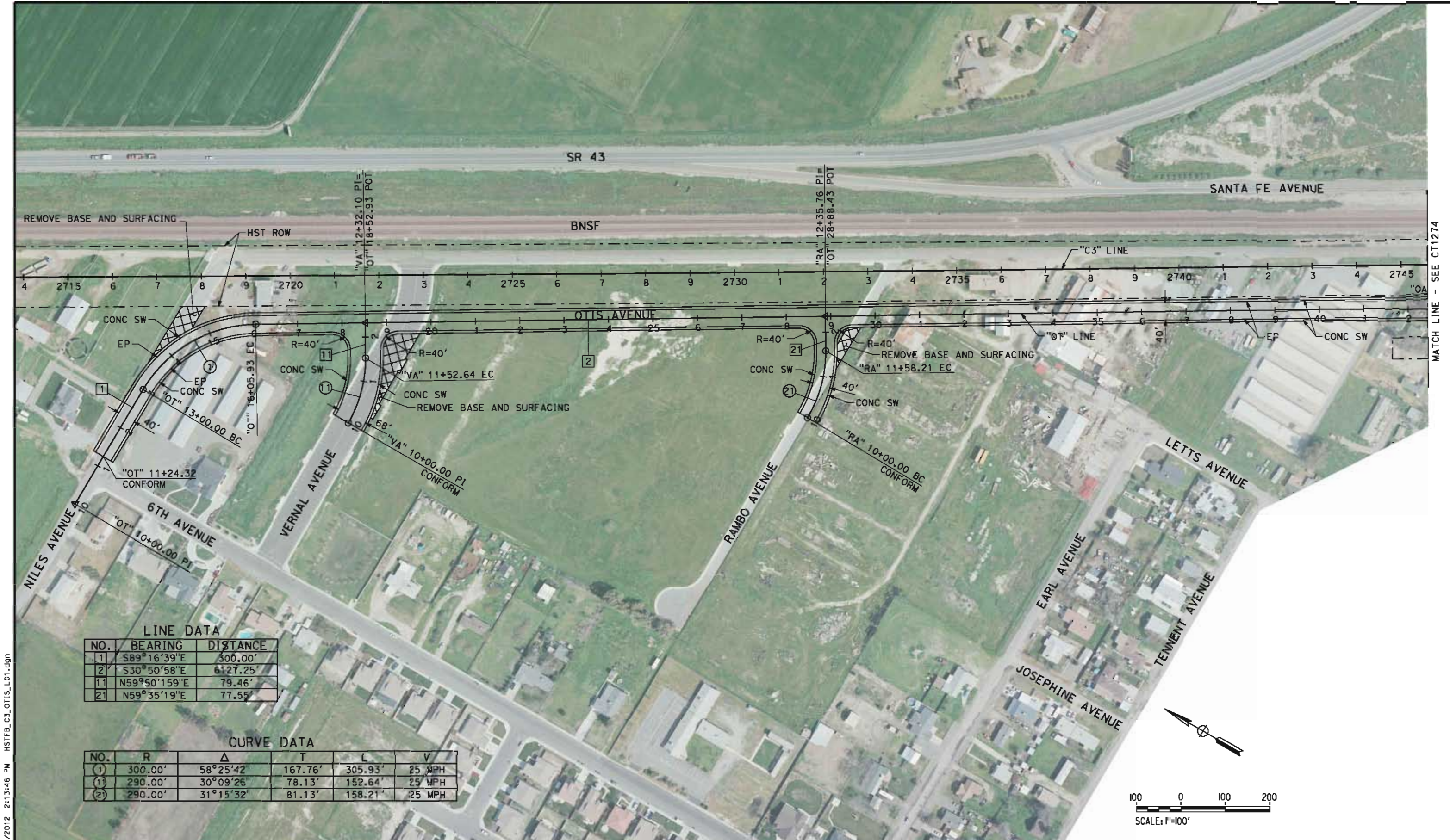
RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
CHARLES ST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1272
SCALE
AS SHOWN
SHEET NO.
3 OF 43



LINE DATA		
NO.	BEARING	DISTANCE
1	S89°16'39"E	300.00'
2	S30°50'58"E	6127.25'
11	N59°50'159"E	79.46'
21	N59°35'19"E	77.55'

CURVE DATA					
NO.	R	Δ	T	L	V
1	300.00'	58°25'42"	167.76'	305.93'	25 MPH
11	290.00'	30°09'26"	78.13'	152.64'	25 MPH
21	290.00'	31°15'32"	81.13'	158.21'	25 MPH

cor/ton_allen 5/16/2012 2:13:46 PM HSTFB_C3_OTIS_LO1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
OTIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1273
SCALE
AS SHOWN
SHEET NO.
4 OF 43

cor/ton_allen 5/16/2012 2:14:01 PM HSTFB_C3_OTIS_LAYOUT.dgn

MATCH LINE - SEE CT1273

MATCH LINE - SEE CT1275



LINE DATA

NO.	BEARING	DISTANCE
2	S30°50'58"E	6127.25'
31	N59°35'19"E	76.84'
41	S89°27'27"E	37.55'
42	N59°35'19"E	77.08'
51	S00°00'00"E	600.00'

CURVE DATA

NO.	R	Δ	T	L	V
(31)	290.00'	30°55'32"	80.22'	156.64'	25 MPH
(41)	290.00'	30°57'14"	80.30'	154.77'	25 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
OTIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1274
SCALE
AS SHOWN
SHEET NO.
5 OF 43

cor/ton_allen 5/16/2012 2:14:15 PM HSTFB_C3_OTIS_L03.dgn

MATCH LINE - SEE CT1274



LINE DATA

NO.	BEARING	DISTANCE
2	S30°50'58"E	6127.25'
3	S00°32'51"W	201.34'
61	S00°32'51"W	201.34'

CURVE DATA

NO.	R	Δ	T	L	V
2	300.00'	31°23'48"	84.32'	162.34'	25 MPH
61	290.00'	31°26'30"	81.63'	159.44'	25 MPH

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
OTIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1275
SCALE
AS SHOWN
SHEET NO.
6 OF 43

cor/ton_allen 5/16/2012 2:14:30 PM HSTFB_C3_SR43_L01.dgn



CURVE DATA

No.	R	Δ	T	L	V
(1)	20000.00'	3°42'50"	648.41'	1296.38'	70 MPH
(2)	20000.00'	3°42'50"	648.41'	1296.38'	70 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S22°06'52"E	3968.21'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
STATE ROUTE 43

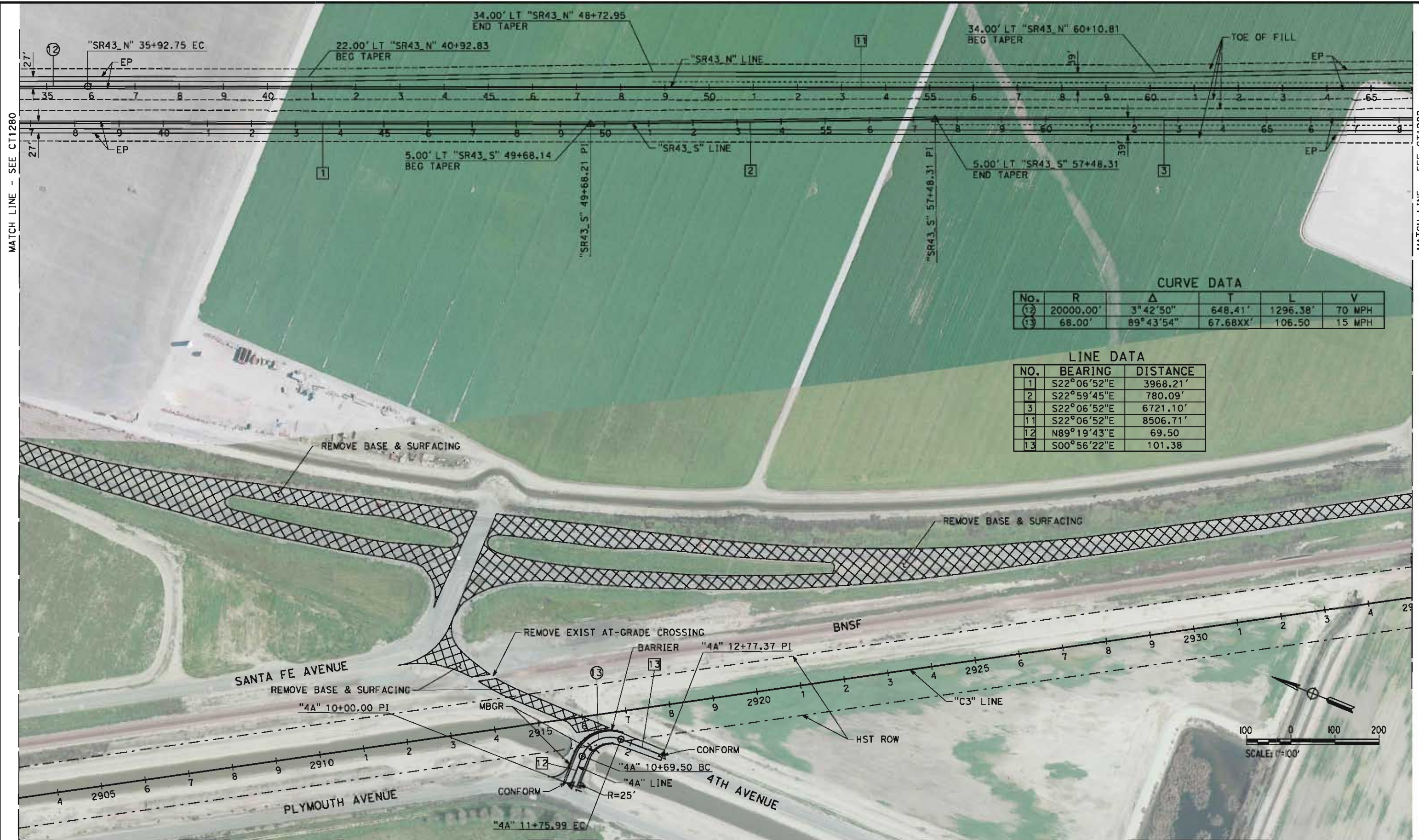
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1280
SCALE
AS SHOWN
SHEET NO.
7 OF 43

MATCH LINE - SEE CT1281

cor/ton_allen 5/16/2012 2:15:00 PM HSTFB_C3_SR43_L02.dgn

MATCH LINE - SEE CT1280

MATCH LINE - SEE CT1282



CURVE DATA					
No.	R	Δ	T	L	V
12	20000.00'	3°42'50"	648.41'	1296.38'	70 MPH
13	68.00'	89°43'54"	67.68XX'	106.50	15 MPH

LINE DATA		
NO.	BEARING	DISTANCE
1	S22°06'52"E	3968.21'
2	S22°59'45"E	780.09'
3	S22°06'52"E	6721.10'
11	S22°06'52"E	8506.71'
12	N89°19'43"E	69.50
13	S00°56'22"E	101.38

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. ROLESCHUK

DRAWN BY
S. KHAN

CHECKED BY
C. ALLEN

IN CHARGE
G. HORTON

DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

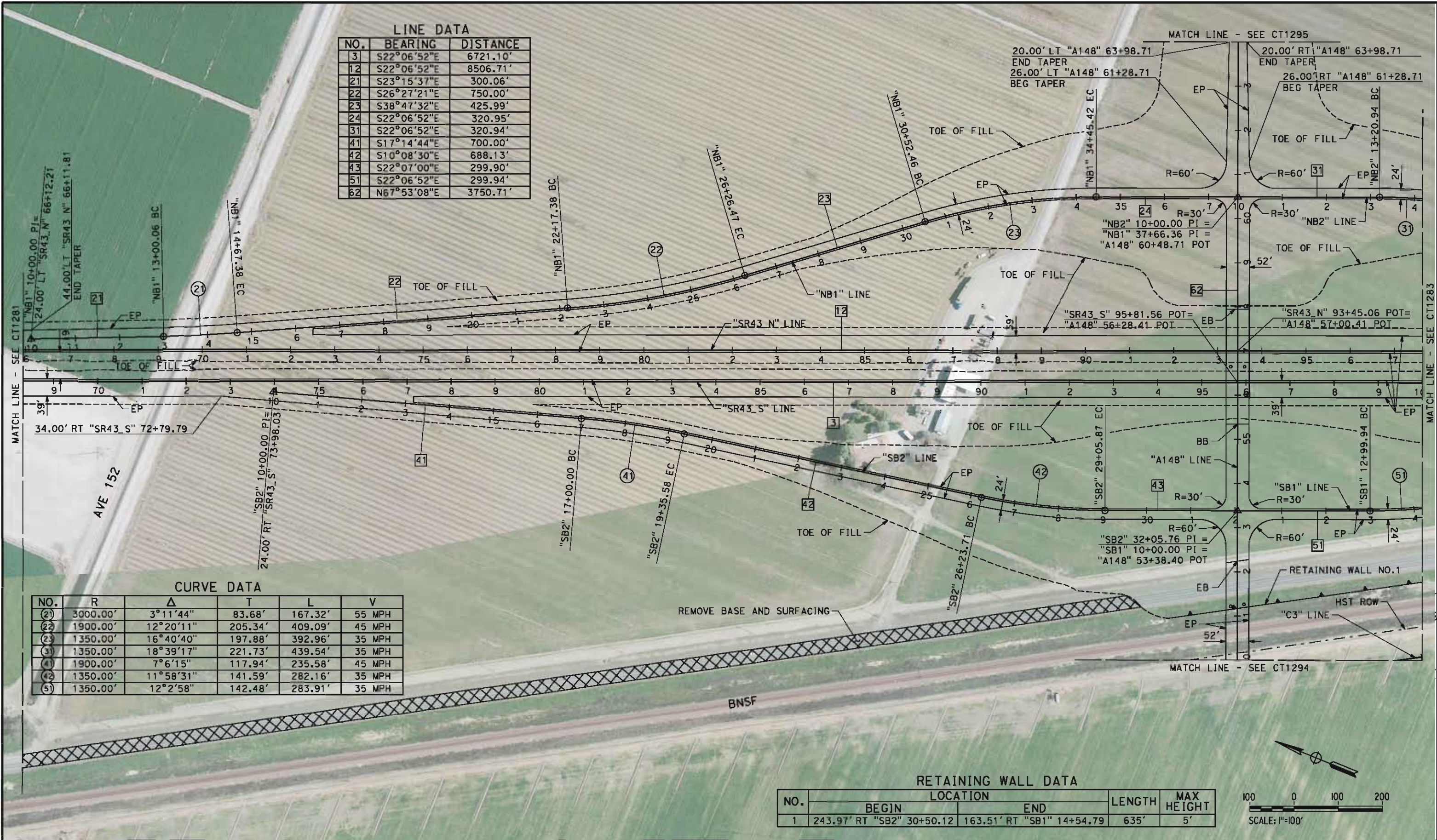
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
STATE ROUTE 43

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1281

SCALE
AS SHOWN

SHEET NO.
8 OF 43



LINE DATA		
NO.	BEARING	DISTANCE
3	S22°06'52"E	6721.10'
12	S22°06'52"E	8506.71'
21	S23°15'37"E	300.06'
22	S26°27'21"E	750.00'
23	S38°47'32"E	425.99'
24	S22°06'52"E	320.95'
31	S22°06'52"E	320.94'
41	S17°14'44"E	700.00'
42	S10°08'30"E	688.13'
43	S22°07'00"E	299.90'
51	S22°06'52"E	299.94'
62	N67°53'08"E	3750.71'

CURVE DATA					
NO.	R	Δ	T	L	V
(2)	3000.00'	3°11'44"	83.68'	167.32'	55 MPH
(22)	1900.00'	12°20'11"	205.34'	409.09'	45 MPH
(23)	1350.00'	16°40'40"	197.88'	392.96'	35 MPH
(3)	1350.00'	18°39'17"	221.73'	439.54'	35 MPH
(4)	1900.00'	7°6'15"	117.94'	235.58'	45 MPH
(42)	1350.00'	11°58'31"	141.59'	282.16'	35 MPH
(5)	1350.00'	12°2'58"	142.48'	283.91'	35 MPH

RETAINING WALL DATA				
NO.	BEGIN	END	LENGTH	MAX HEIGHT
1	243.97' RT "SB2" 30+50.12	163.51' RT "SB1" 14+54.79	635'	5'

cor/ton_allen 5/16/2012 2:15:31 PM HSTFB_C3_SR43_L03.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. ROLESCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

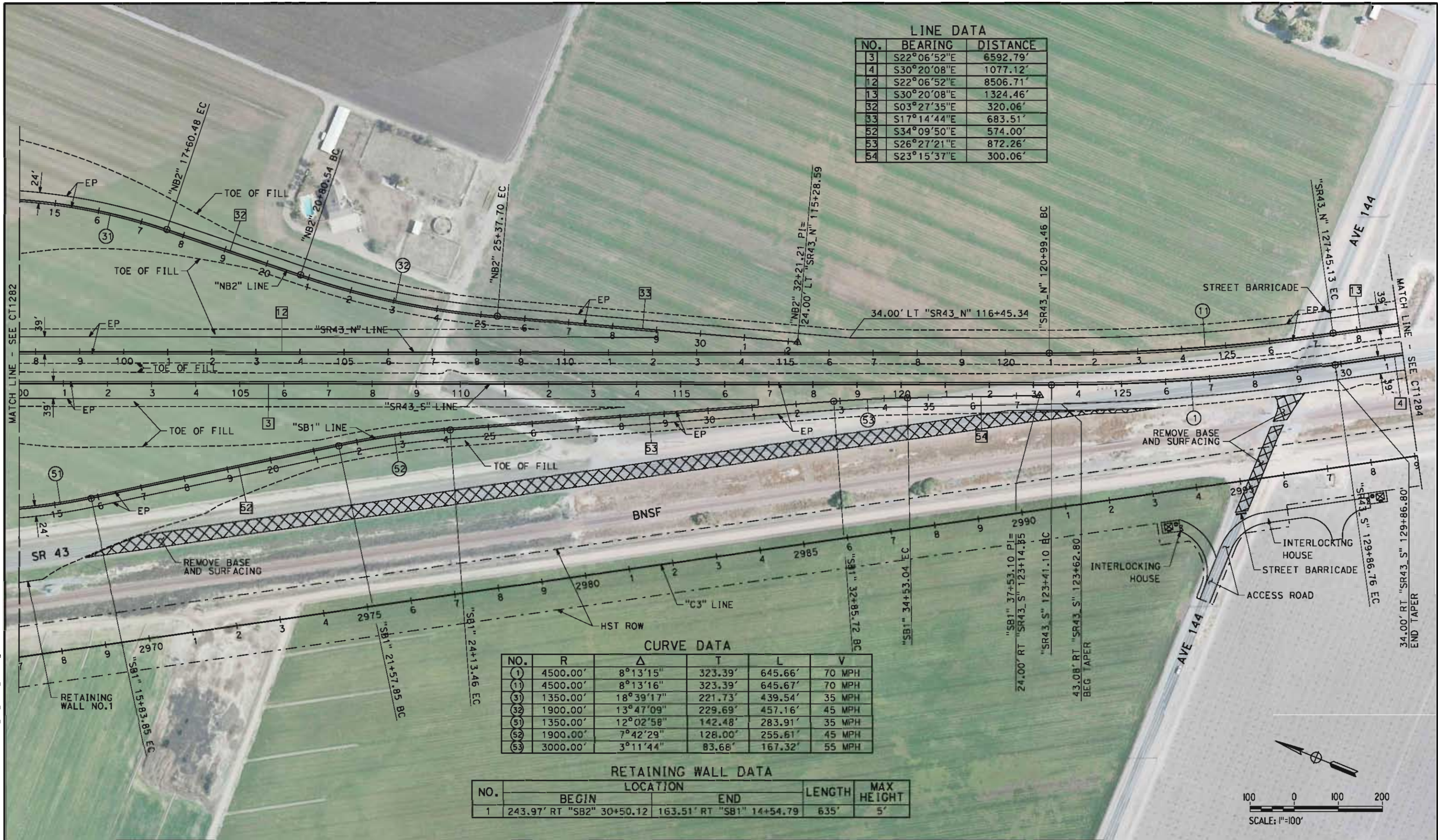
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
STATE ROUTE 43

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1282
SCALE
AS SHOWN
SHEET NO.
9 OF 43

corlton_allen 5/16/2012 2:16:03 PM HSTFB_C3_SR43_L04.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
STATE ROUTE 43

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1283
SCALE
AS SHOWN
SHEET NO.
10 OF 43

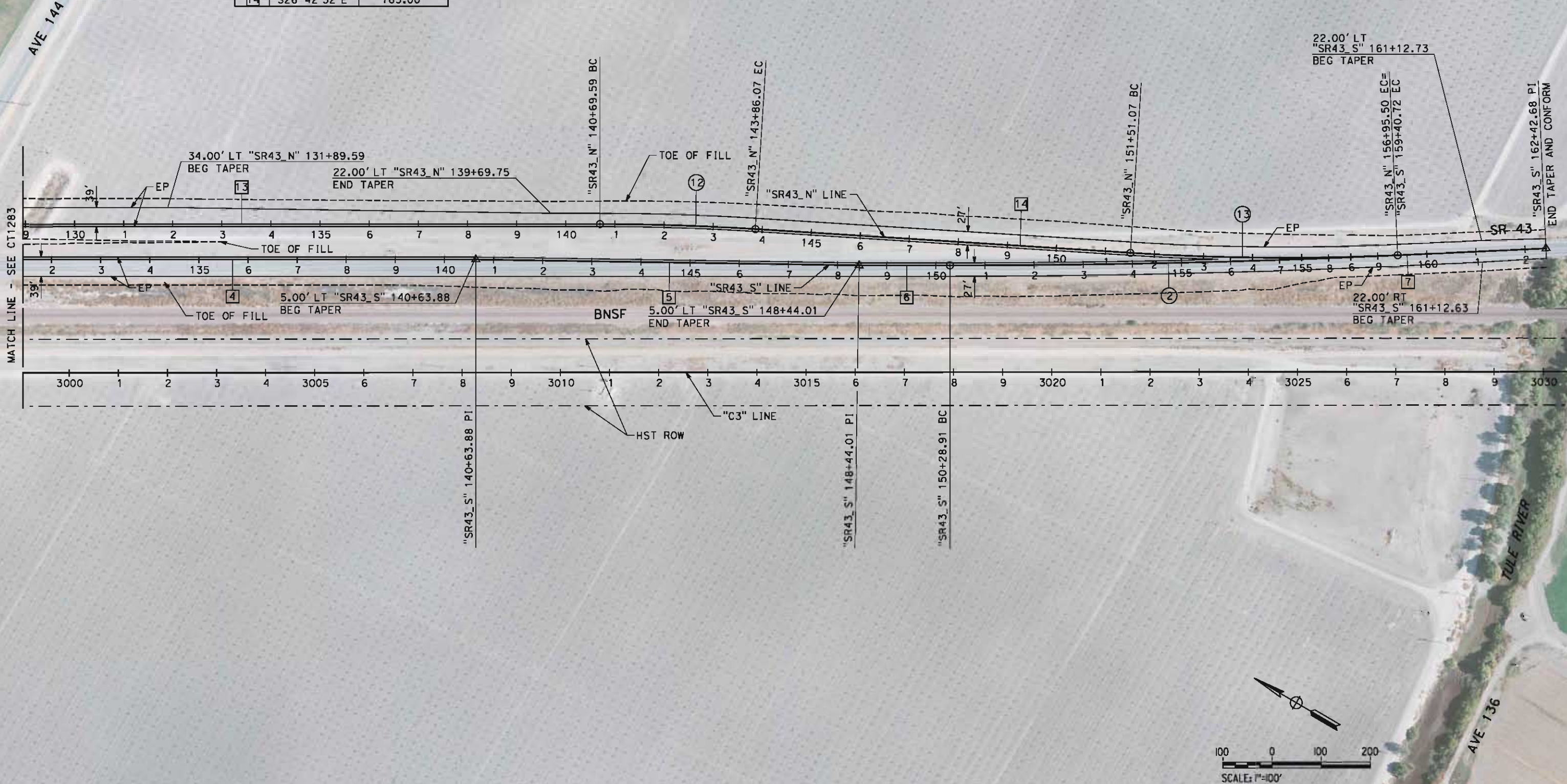
corlton_allen 5/16/2012 2:16:31 PM HSTFB_C3_SR43_L05.dgn

LINE DATA

NO.	BEARING	DISTANCE
4	S30°20'08"E	1077.12'
5	S29°27'15"E	780.13'
6	S30°20'08"E	184.90'
7	S32°56'52"E	301.96'
13	S30°20'08"E	1324.46'
14	S26°42'32"E	765.00'

CURVE DATA

NO.	R	Δ	T	L	V
(2)	20000.00'	02°36'44"	455.98'	911.81'	70 MPH
(12)	5000.00'	03°37'36"	158.29'	316.48'	70 MPH
(13)	5000.00'	06°14'19"	272.48'	544.43'	70 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

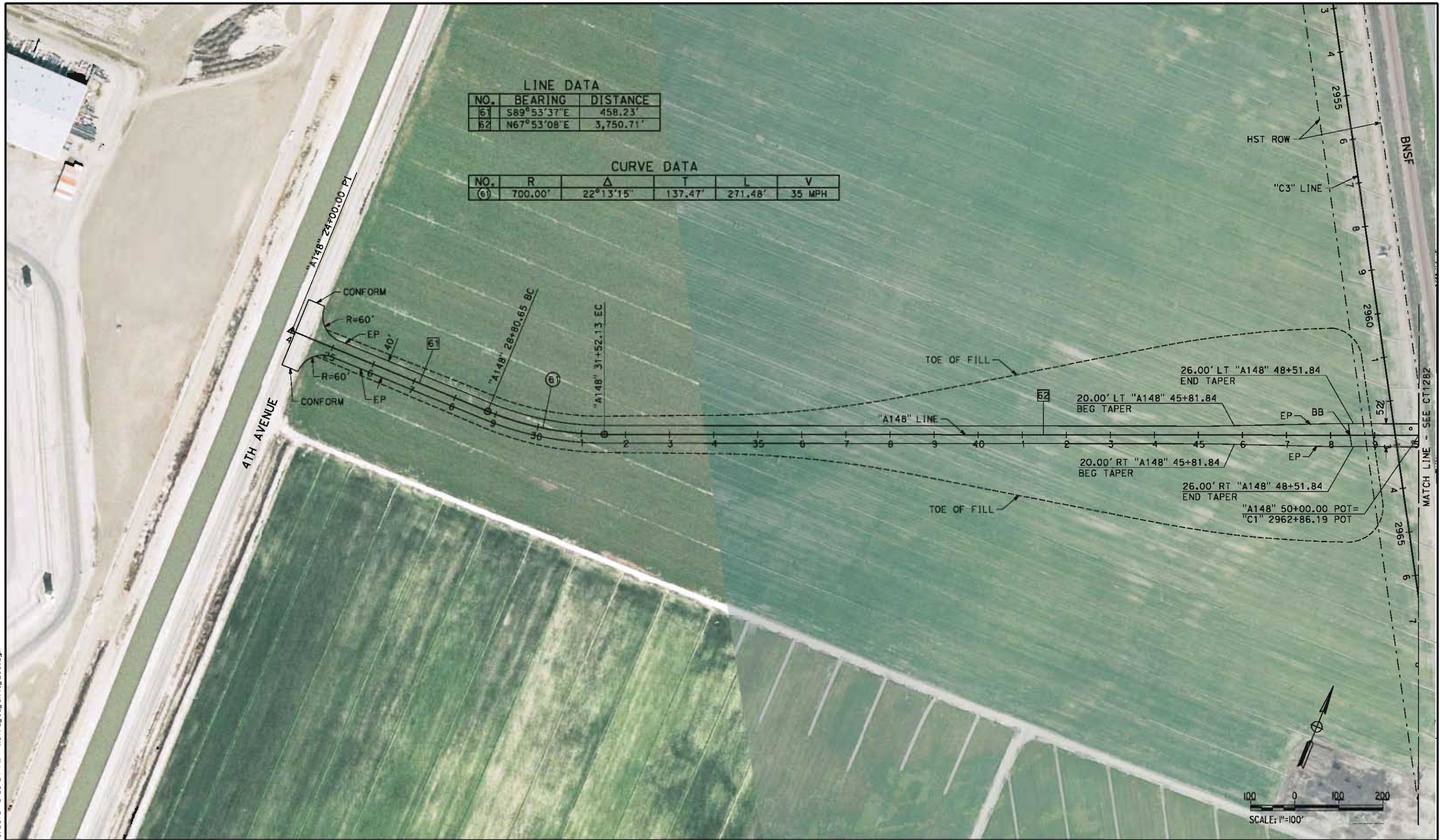
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
STATE ROUTE 43

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1284
SCALE
AS SHOWN
SHEET NO.
11 OF 43

cor/ton_allen 5/16/2012 2:25:24 PM HSTFB_C1_SR43_L06.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
AVE 148

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1294
SCALE
AS SHOWN
SHEET NO.
12 OF 43

cor/ton_allen 5/16/2012 2:21:04 PM HSTFB_C3_SR43_L07.dgn

LINE DATA

NO.	BEARING	DISTANCE
62	N67°53'08"E	3,750.71'
63	S89°45'51"E	890.77'
71	S00°14'09"W	3,817.83'

CURVE DATA

NO.	R	Δ	T	L	V
62	700.00'	22°21'01"	138.29'	273.06'	35 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

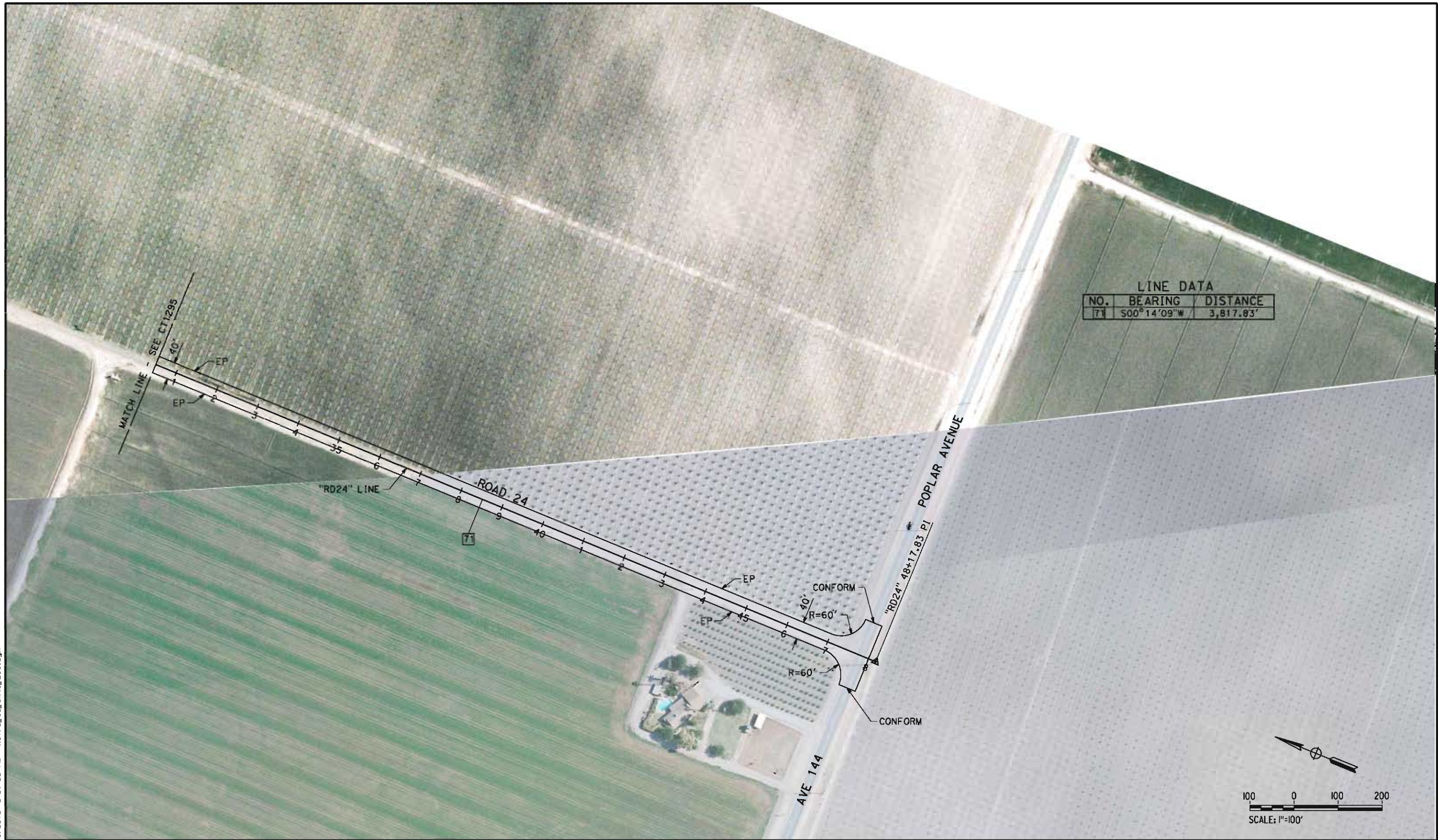


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

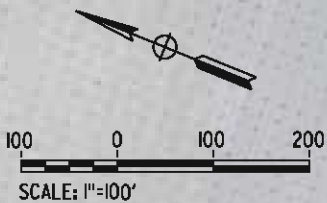
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
AVE 148 & RD 24

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1295
SCALE
AS SHOWN
SHEET NO.
13 OF 43

cor/ton_allen 5/16/2012 2:21:22 PM HSTFB_C3_SR43_LOB.dgn



LINE DATA		
NO.	BEARING	DISTANCE
71	S00°14'09"W	3,817.83'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**





**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
RD 24

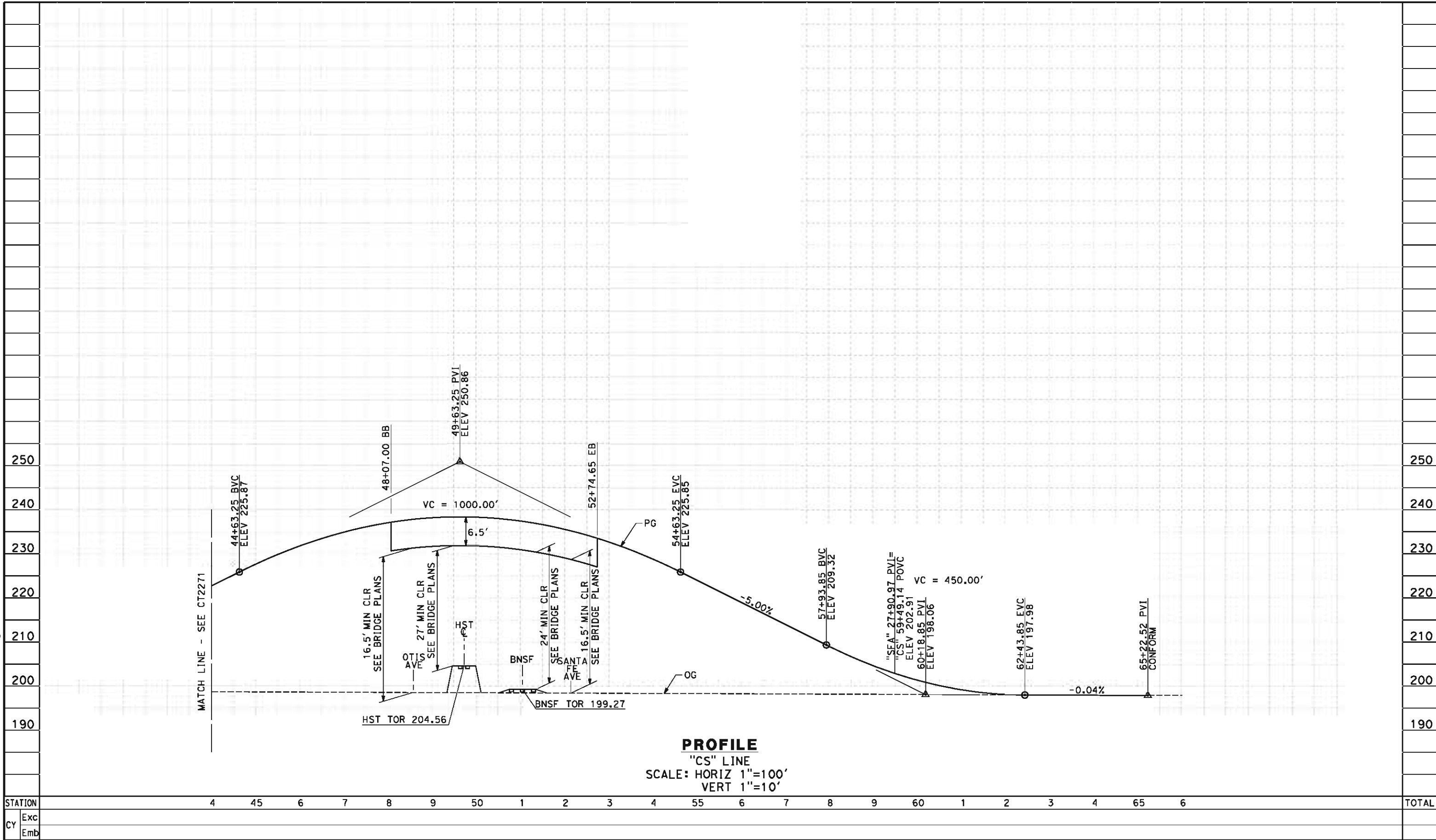
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1296
SCALE
AS SHOWN
SHEET NO.
14 OF 43

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE FOR HST IS 16.5' FROM TOP OF ROADWAY
4. VERTICAL DESIGN SPEED = 45 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



						DESIGNED BY M. POLISCHUK DRAWN BY S. KHAN CHECKED BY C. ALLEN IN CHARGE G. HORTON DATE 5/18/12	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEPARATION PROFILE CHARLES ST	CONTRACT NO. HSR 06-0003 DRAWING NO. CT2271 SCALE AS SHOWN SHEET NO. 15 OF 43
REV	DATE	BY	CHK	APP	DESCRIPTION					

carlton_allen 5/16/2012 2:21:47 PM HSTFB_C3_CHARLES_PS02.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
CHARLES ST

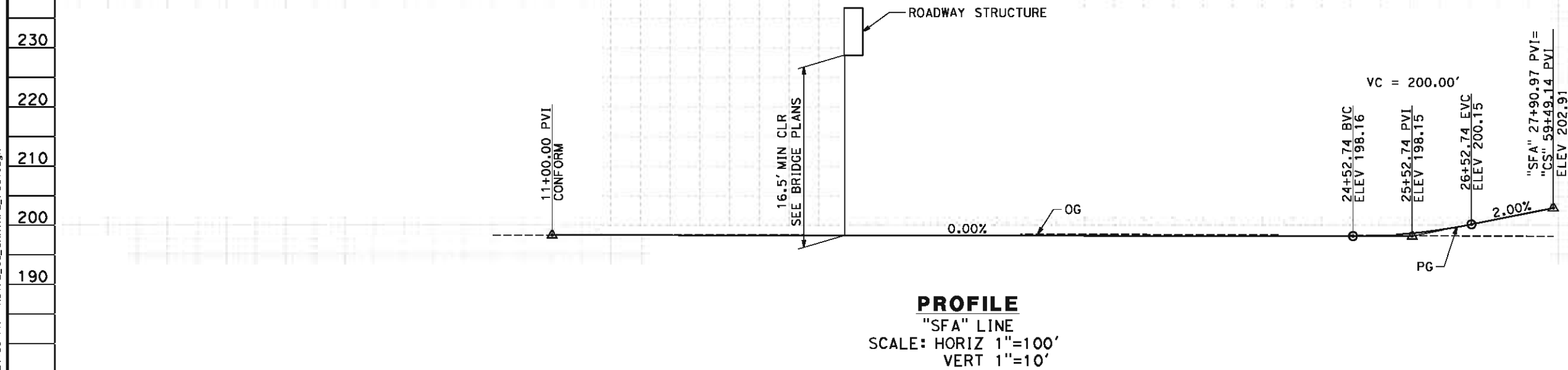
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2272
SCALE
AS SHOWN
SHEET NO.
16 OF 43

carlton_allen 5/16/2012 2:21:50 PM HSTFB_C3_SANTAFE_PS01.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 55 MPH AND 25 MPH AT INTERSECTION
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. SEE SHEET CT1272 FOR LAYOUT VIEW
 - 4. MINIMUM VERTICAL CLEARANCE IS 16.5' FROM TOP OF ROADWAY

250
240
230
220
210
200
190

250
240
230
220
210
200
190



PROFILE
"SFA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	TOTAL
Exc																				
Emb																				

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

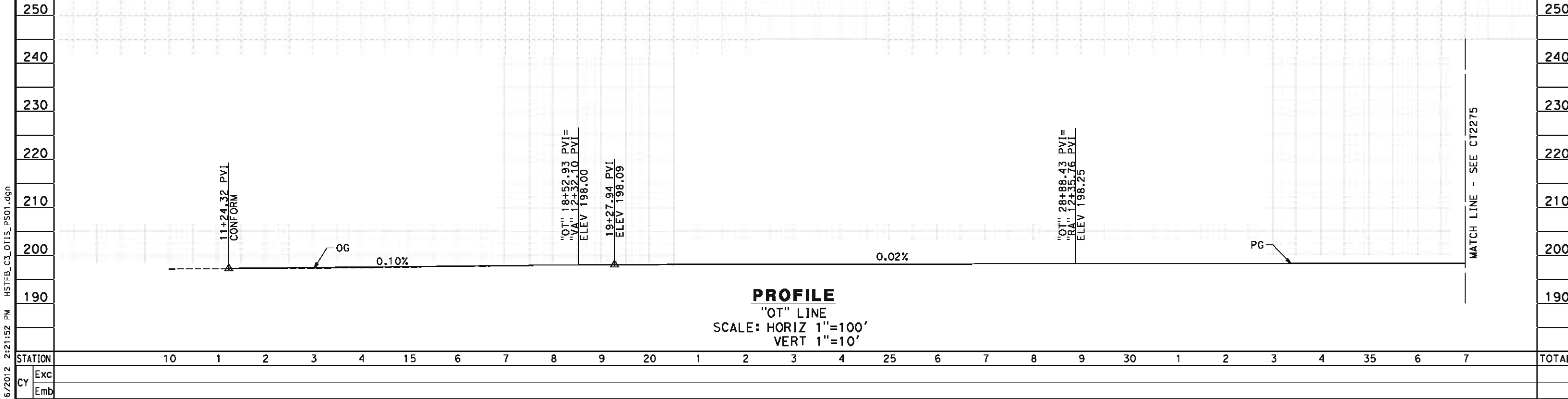


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
SANTA FE AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2273
SCALE
AS SHOWN
SHEET NO.
17 OF 43

carlton_allen 5/16/2012 2:21:52 PM HSTFB_C3_OTIS_PS01.dgn

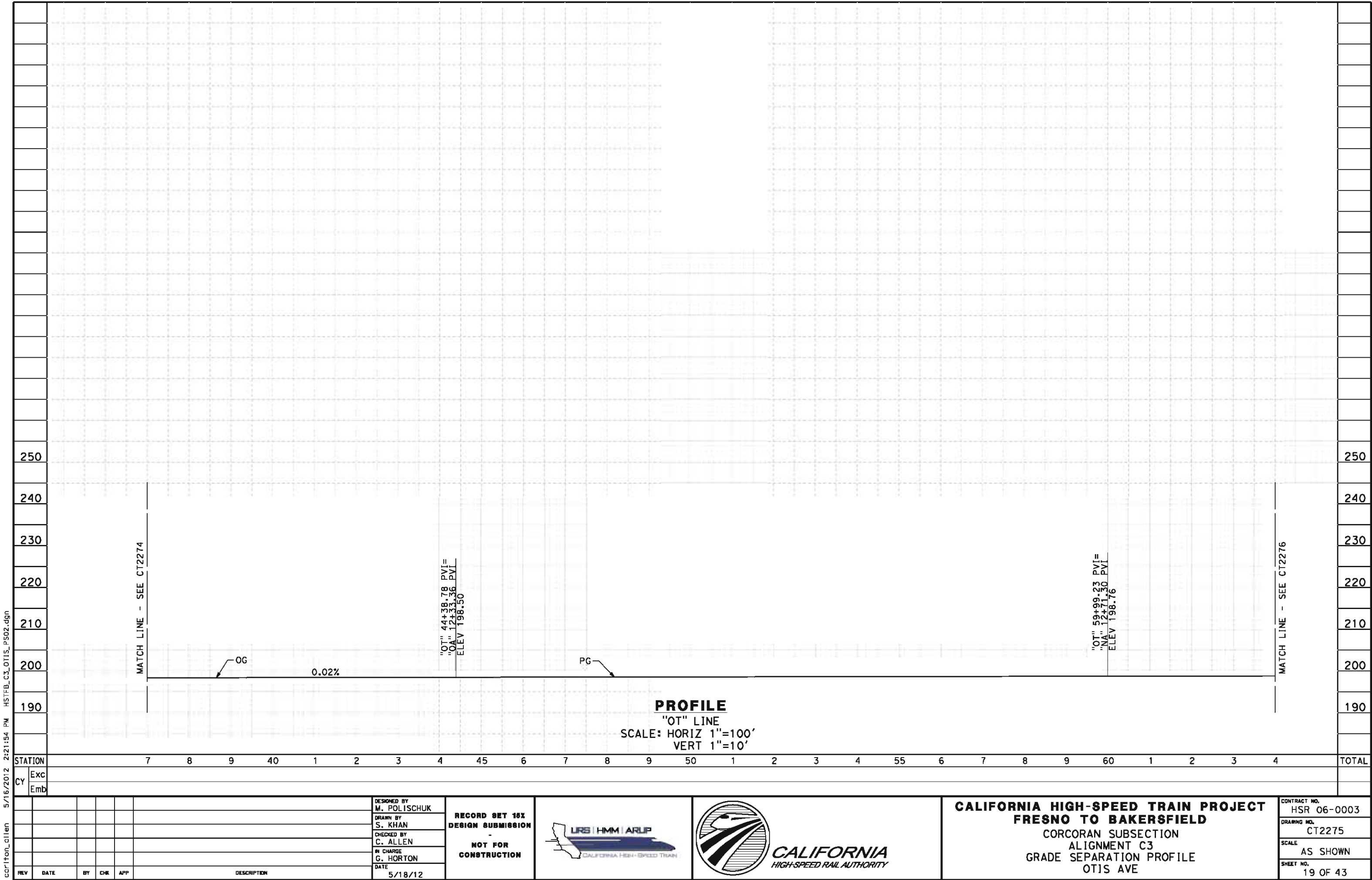
- NOTES:
- 1. VERTICAL DESIGN SPEED = 35 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



PROFILE
"OT" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

DESIGNED BY M. POLISCHUK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEPARATION PROFILE OTIS AVE	CONTRACT NO. HSR 06-0003
DRAWN BY S. KHAN					DRAWING NO. CT2274
CHECKED BY C. ALLEN					SCALE AS SHOWN
IN CHARGE G. HORTON					SHEET NO. 18 OF 43
DATE 5/18/12					
REV	DATE	BY	CHK	APP	DESCRIPTION

carlton_allen 5/16/2012 2:21:54 PM HSTFB_C3_OTIS_PS02.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

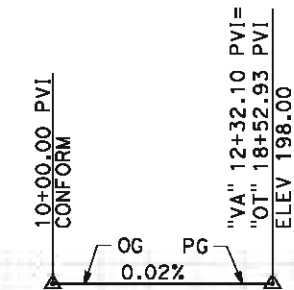


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
OTIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2275
SCALE
AS SHOWN
SHEET NO.
19 OF 43

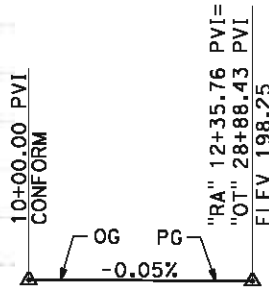
carlton_allen 5/16/2012 2:21:59 PM HSTFB_C3_OTIS_CONN_P501.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 55 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. SEE SHEETS CT1273, CT1274 AND CT1275 FOR LAYOUT VIEWS



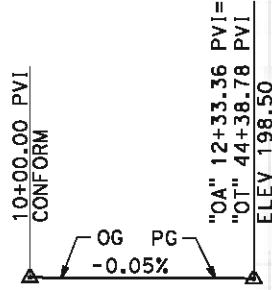
PROFILE
"VA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION 10 1 2 3



PROFILE
"RA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION 10 1 2 3



PROFILE
"OA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION 10 1 2 3

STATION
CY Exc
Emb

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



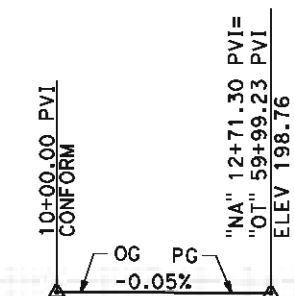
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
CONNECTIONS TO OTIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2277
SCALE
AS SHOWN
SHEET NO.
21 OF 43

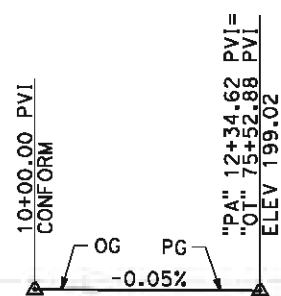
220
210
200
190

TOTAL

HSTFB C3 OTIS CONN PS02-dan



PROFILE
"NA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'



PROFILE
"PA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		10	1	2	3	10	1	2	3
CY	Exc								
	Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	M. POLISCHUK
DRAWN BY	S. KHAN
CHECKED BY	C. ALLEN
IN CHARGE	G. HORTON
DATE	5/18/12

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



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
CONNECTIONS TO OTIS AVE

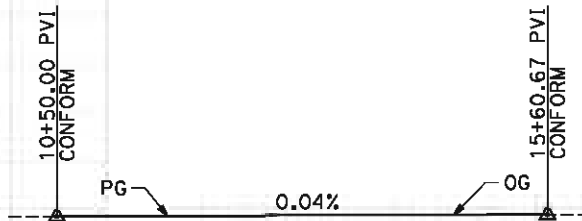
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2278
SCALE	AS SHOWN
SHEET NO.	22 OF 43

carlton_allen 5/16/2012 2:22:03 PM HSTFB_C3_LETTS_PS01.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 55 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. SEE SHEET CT1274 FOR LAYOUT VIEW

220
210
200
190

220
210
200
190



PROFILE
"LA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION 10 1 2 3 4 15 6

TOTAL

CY	Exc	
	Emb	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

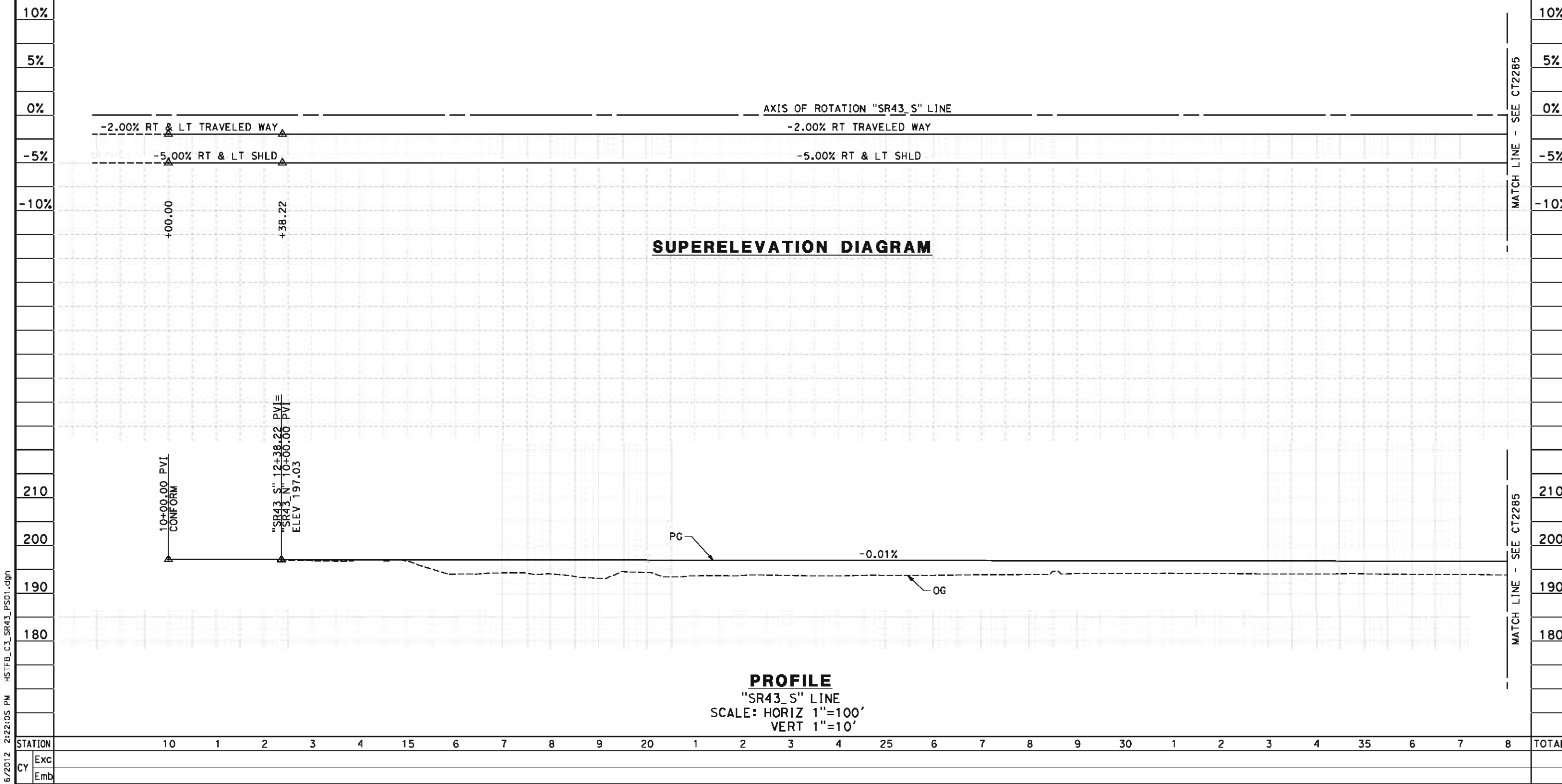


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
LETTS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2279
SCALE
AS SHOWN
SHEET NO.
23 OF 43

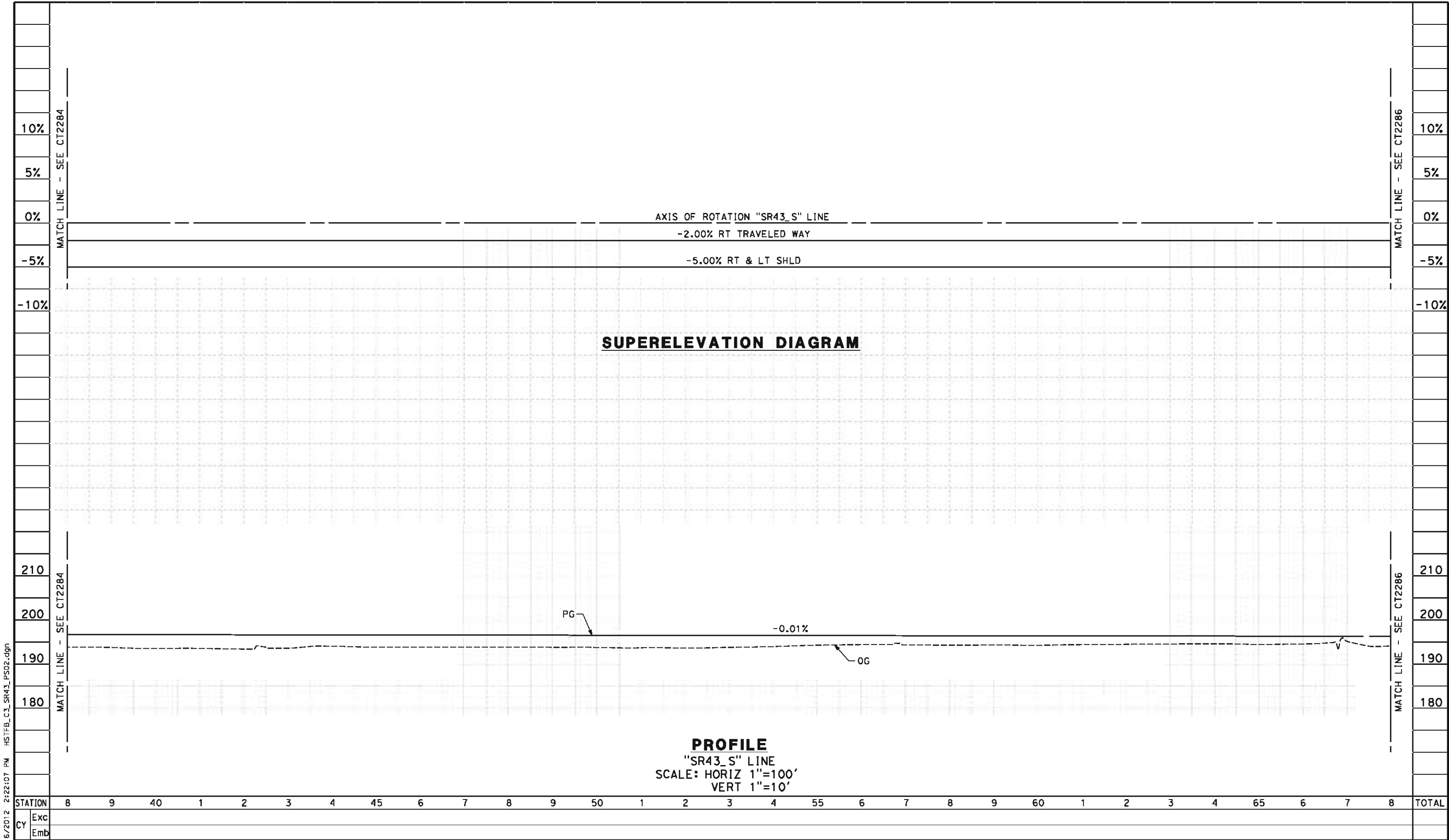
carlton_allen 5/16/2012 2:22:05 PM HSTFB_C3_SR43_PS01.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 70 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



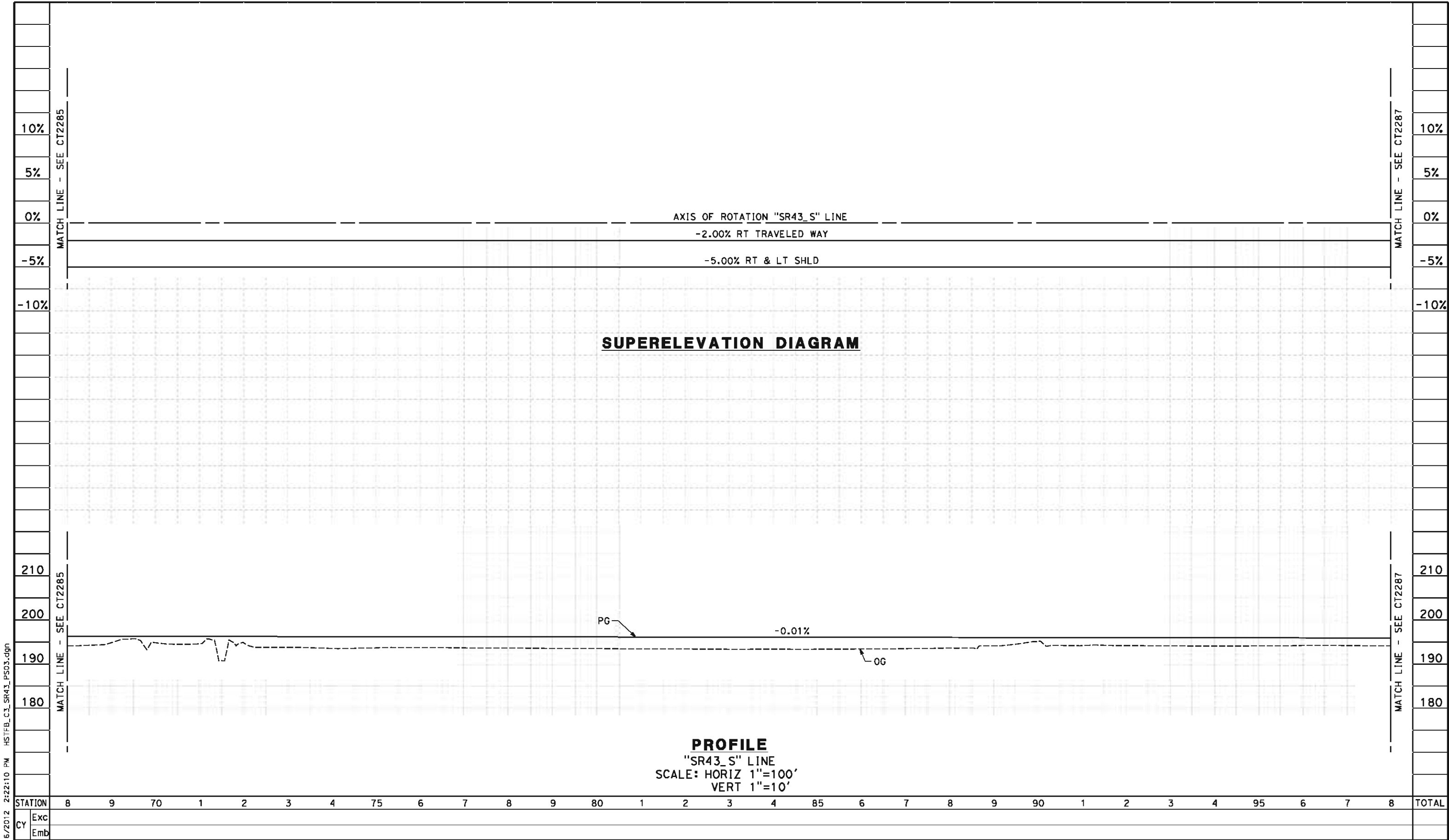
DESIGNED BY M. POLISCHUK	RECORD SET 15% DESIGN SUBMISSION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY S. KHAN					
CHECKED BY C. ALLEN					
IN CHARGE G. HORTON					
DATE 5/18/12	NOT FOR CONSTRUCTION			GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 MAINLINE (SB)	DRAWING NO. CT2284
					SCALE AS SHOWN
					SHEET NO. 24 OF 43

carlton_allen 5/16/2012 2:22:07 PM HSTFB_C3_SR43_PS02.dgn



DESIGNED BY M. POLISCHUK					RECORD SET 15% DESIGN SUBMISSION					CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD					CONTRACT NO. HSR 06-0003				
DRAWN BY S. KHAN					NOT FOR CONSTRUCTION					CORCORAN SUBSECTION ALIGNMENT C3					DRAWING NO. CT2285				
CHECKED BY C. ALLEN										GRADE SEP PROFILE & SUPERELEVATION DIAGRAM					SCALE AS SHOWN				
IN CHARGE G. HORTON										STATE ROUTE 43 MAINLINE (SB)					SHEET NO. 25 OF 43				
DATE 5/18/12																			
REV	DATE	BY	CHK	APP	DESCRIPTION														

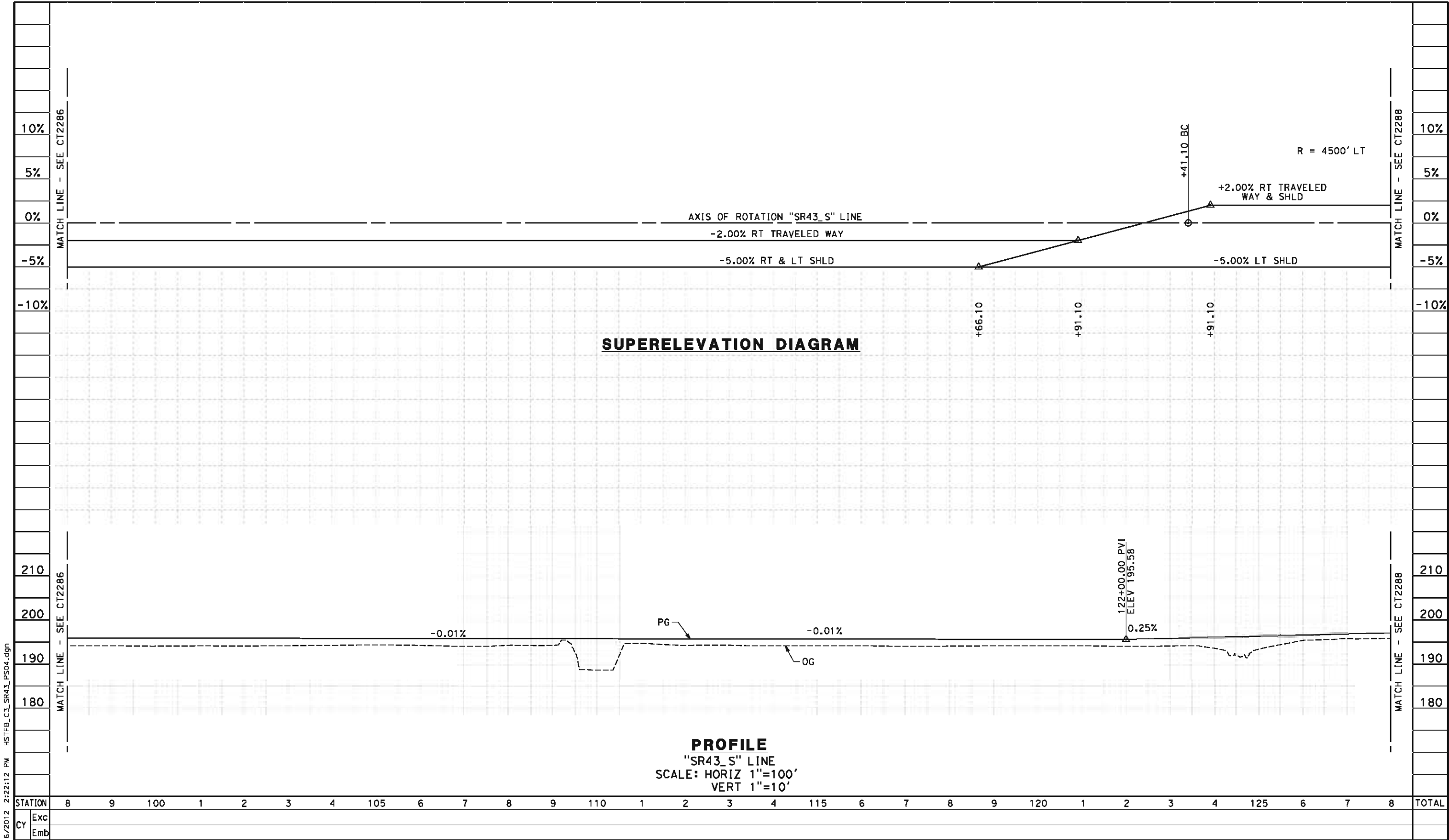
carlton_allen 5/16/2012 2:22:10 PM HSTFB_C3_SR43_PS03.dgn



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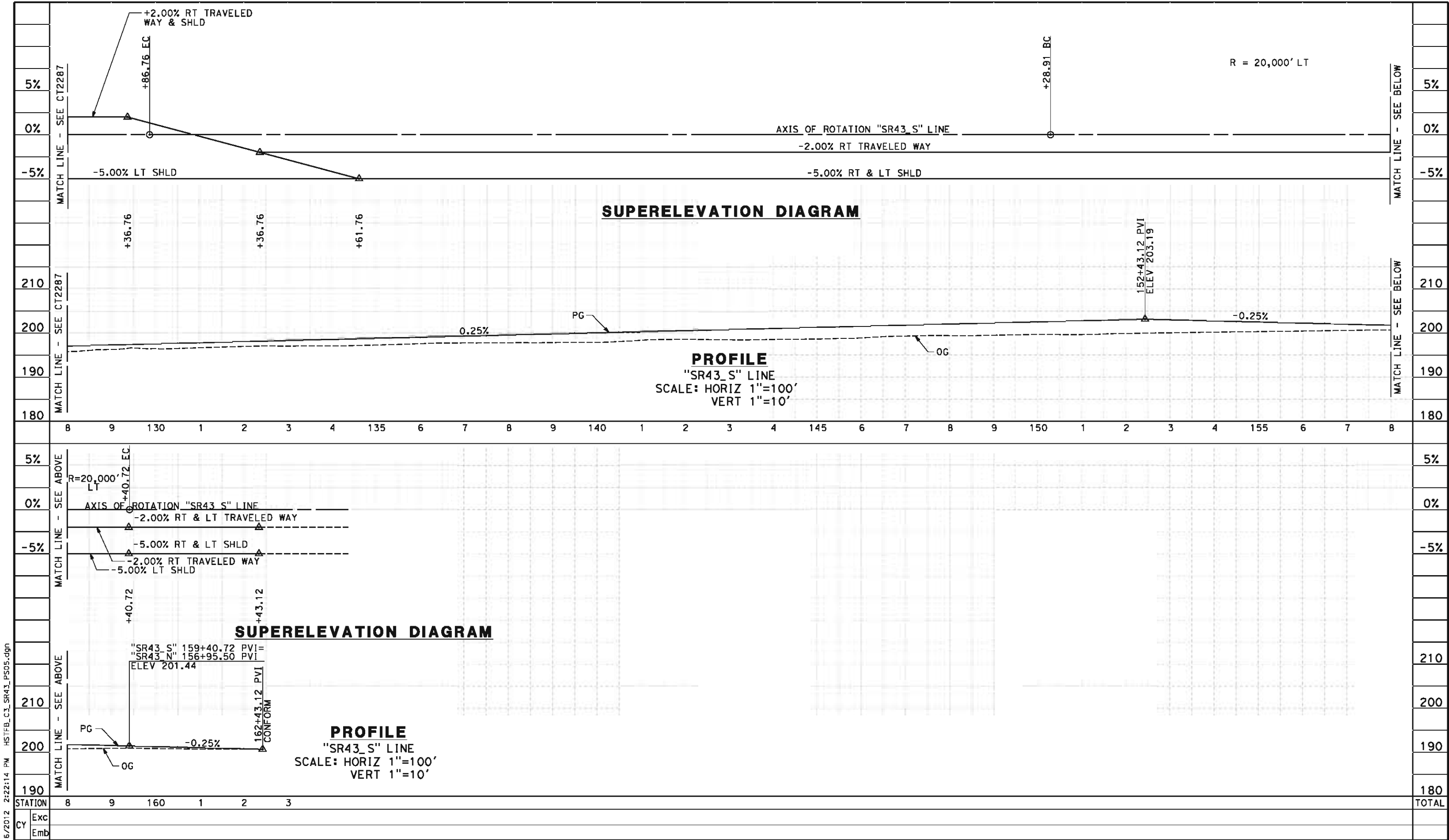


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5/16/2012 2:22:14 PM HSTFB_C3_SR43_PS05.dgn

carlton_allen



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

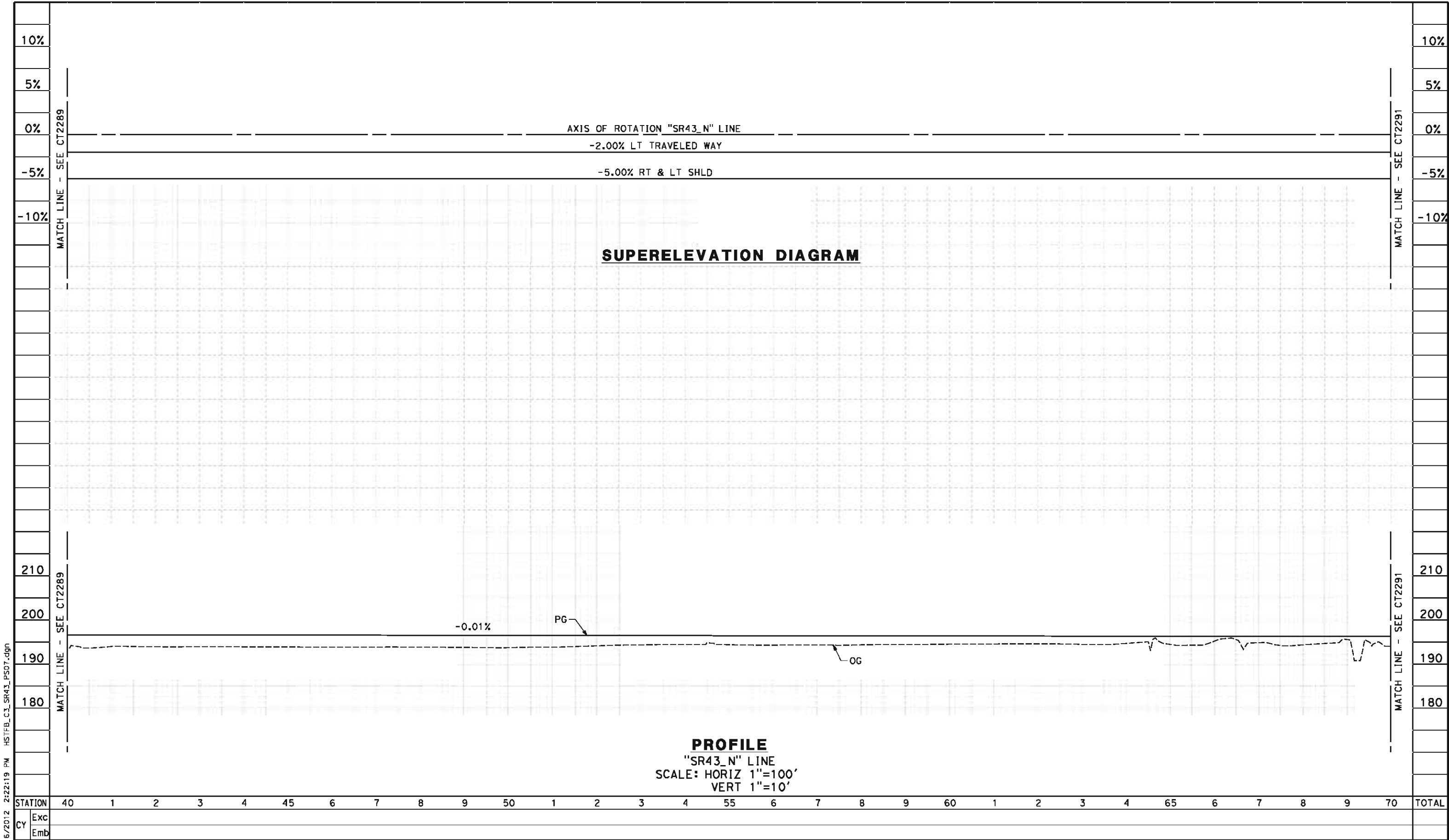
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 MAINLINE (SB)

CONTRACT NO.
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DRAWING NO.
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28 OF 43

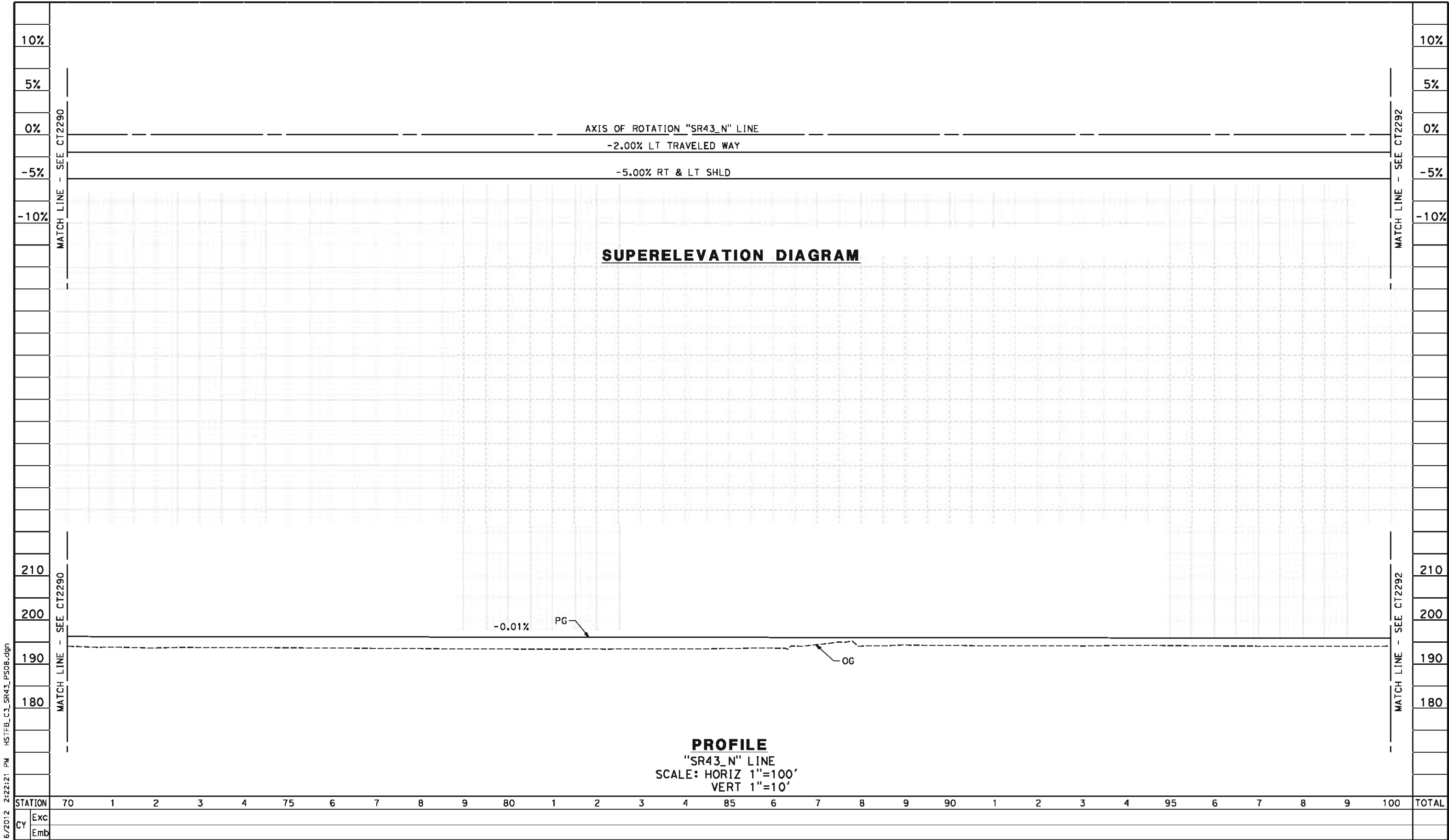
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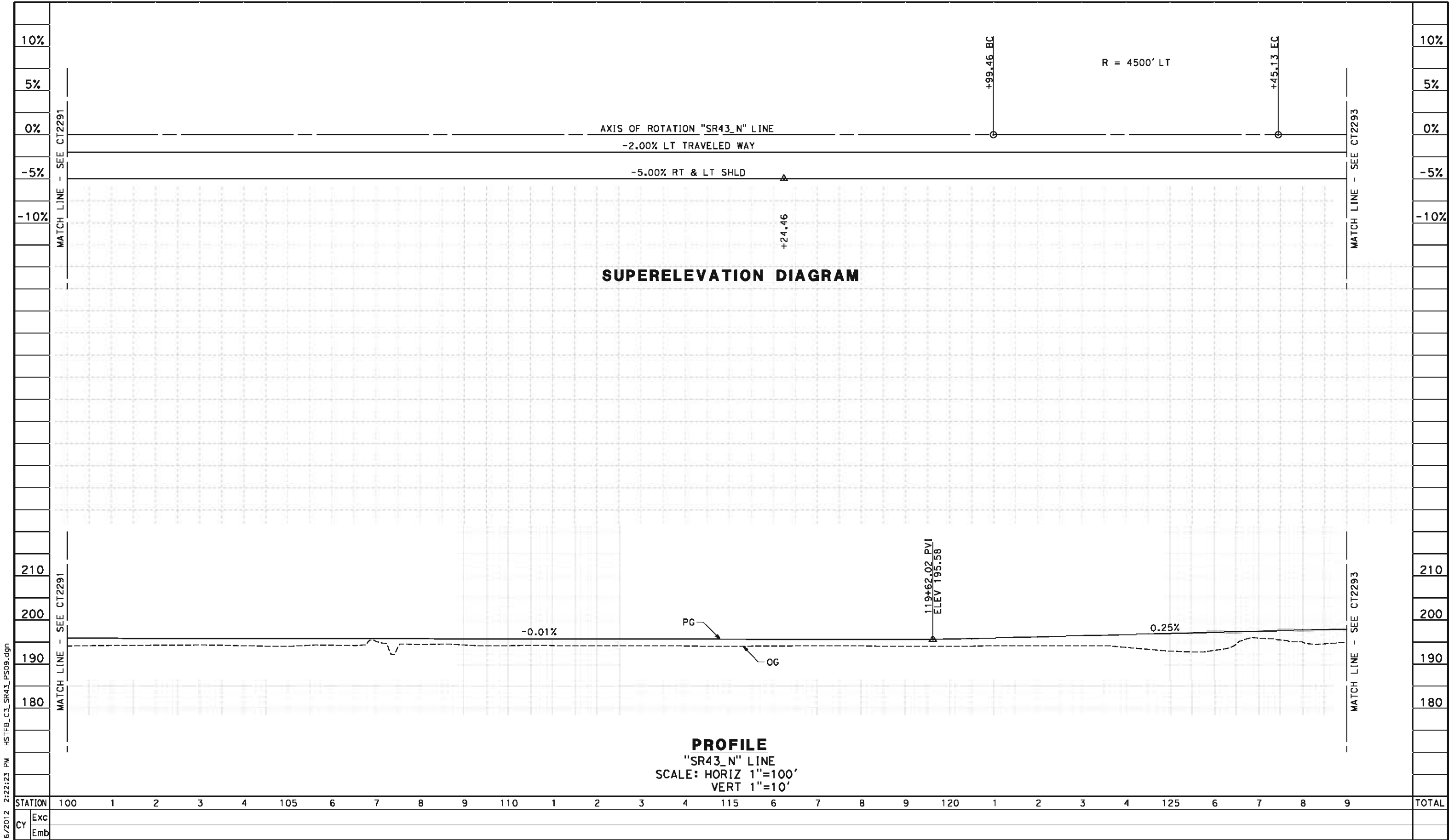
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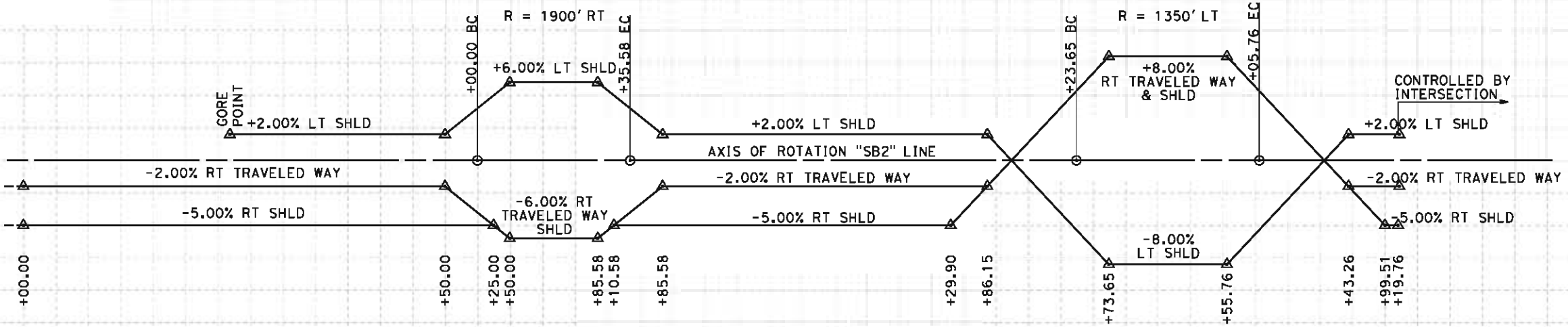
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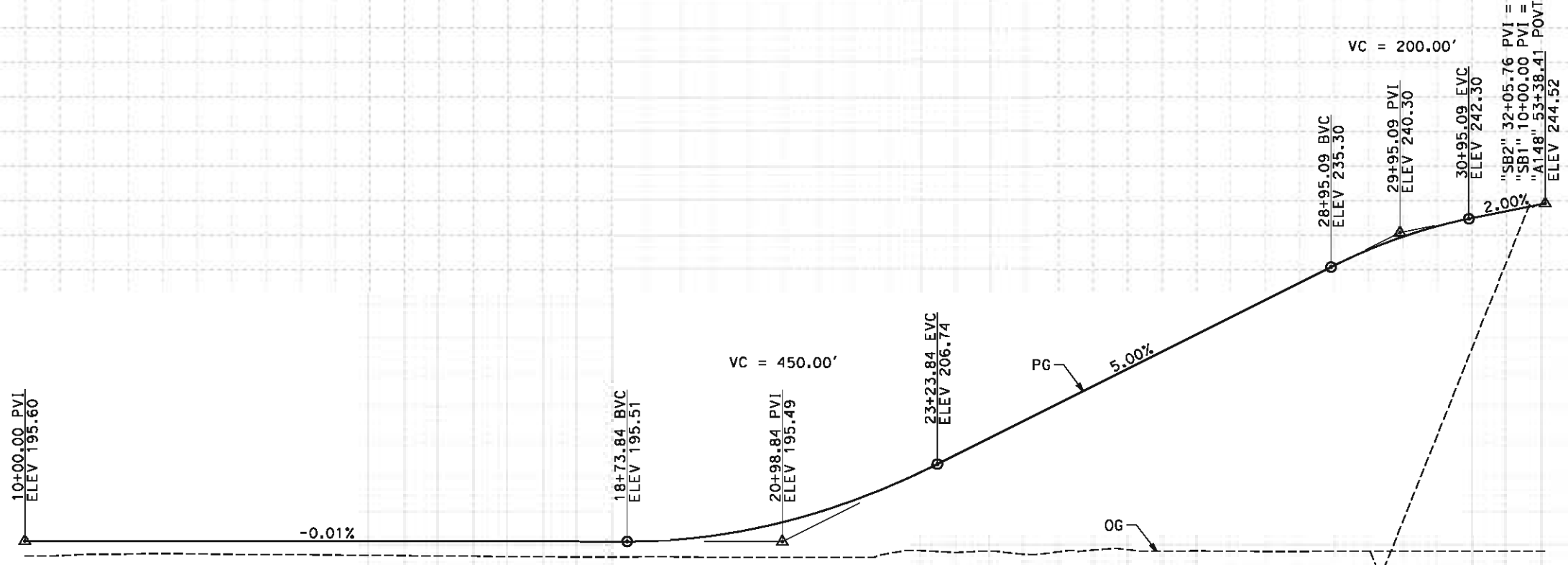
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NOTES:
1. VERTICAL DESIGN SPEED = 45 MPH IN SAG
VERTICAL DESIGN SPEED = 25 MPH AT CREST
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



SUPERELEVATION DIAGRAM



PROFILE
"SB2" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	TOTAL
CY	Exc																											
	Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. POLISCHUK
DRAWN BY S. KHAN
CHECKED BY C. ALLEN
IN CHARGE G. HORTON
DATE 5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



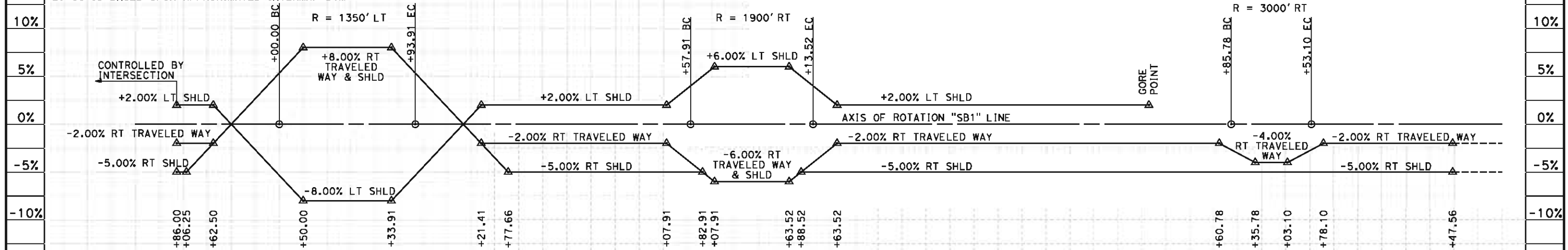
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 SB OFF RAMP

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2294
SCALE AS SHOWN
SHEET NO. 34 OF 43

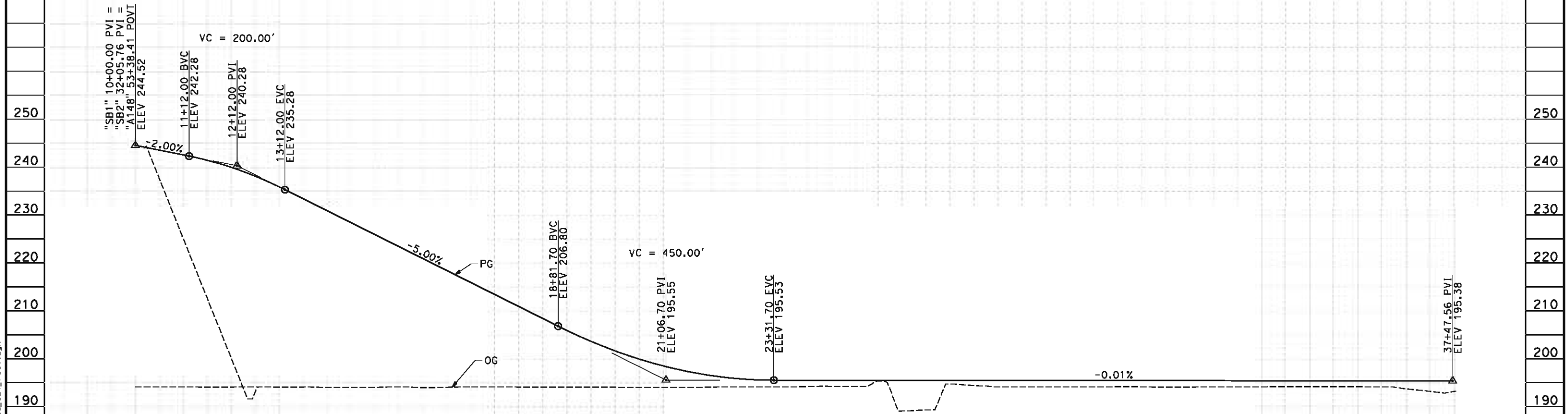
carlton_allen 5/16/2012 2:22:27 PM HSTFB_C3_SB1_PSO1.dgn

NOTES:

1. VERTICAL DESIGN SPEED = 45 MPH IN SAG
VERTICAL DESIGN SPEED = 25 MPH AT CREST
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



SUPERELEVATION DIAGRAM



PROFILE

"SB1" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 SB ON RAMP



CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2295
SCALE
AS SHOWN
SHEET NO.
35 OF 43

1. VERTICAL DESIGN SPEED = 45 MPH IN SAG
VERTICAL DESIGN SPEED = 25 MPH AT CREST

2. OG IS BASED UPON APPROXIMATED INTERMAP DTM

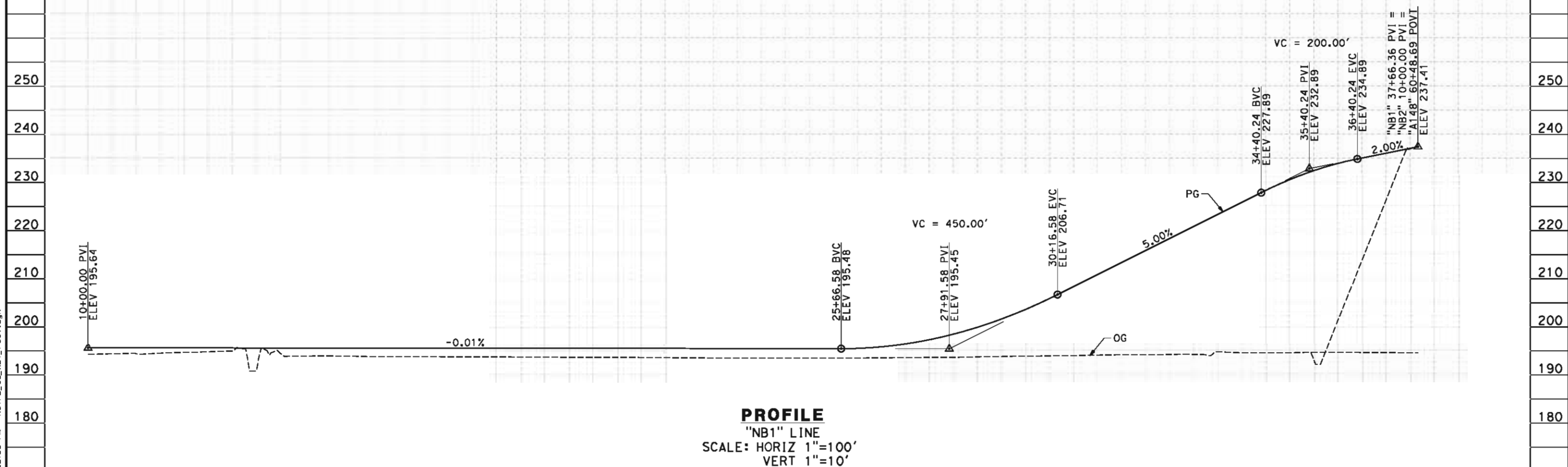
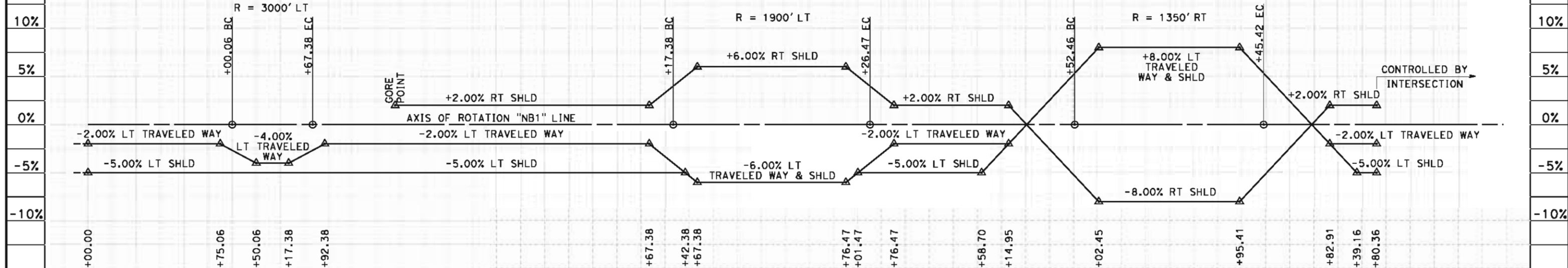


"NB2" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

						DESIGNED BY M. POLISCHUK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 NB OFF RAMP			CONTRACT NO. HSR 06-0003
						DRAWN BY S. KHAN						DRAWING NO. CT2296
						CHECKED BY C. ALLEN						SCALE AS SHOWN
						IN CHARGE G. HORTON						SHEET NO. 36 OF 43
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 5/18/12						

NOTES:

1. VERTICAL DESIGN SPEED = 45 MPH IN SAG
VERTICAL DESIGN SPEED = 25 MPH AT CREST
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM

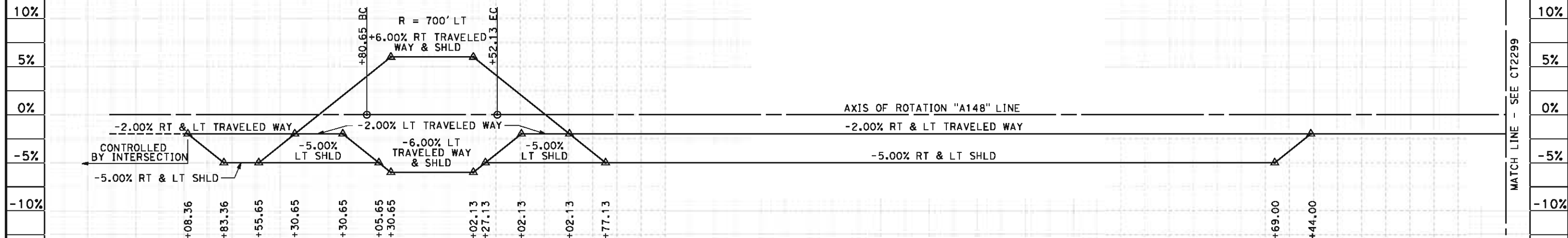


STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	TOTAL
Exc																															
Emb																															

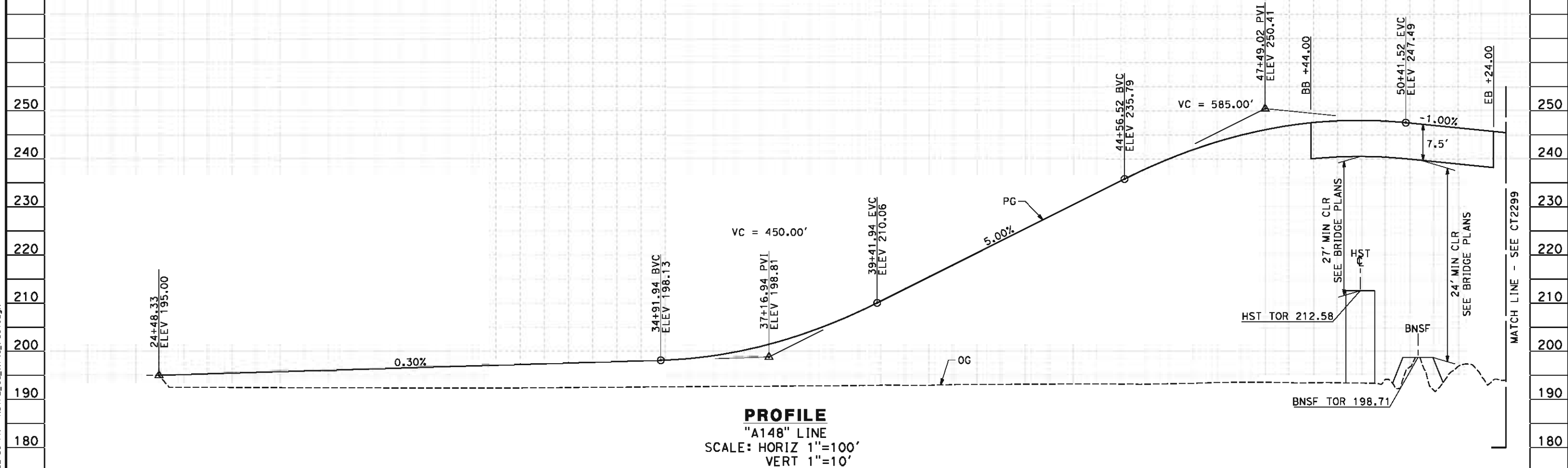
DESIGNED BY M. POLISCHUK DRAWN BY S. KHAN CHECKED BY C. ALLEN IN CHARGE G. HORTON DATE 5/18/12					RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION						CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 NB ON RAMP				CONTRACT NO. HSR 06-0003 DRAWING NO. CT2297 SCALE AS SHOWN SHEET NO. 37 OF 43	
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carlton_allen 5/16/2012 2:22:39 PM HSTFB_C3_A148_PS01.dgn

- NOTES:
1. VERTICAL DESIGN SPEED = 45 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



SUPERELEVATION DIAGRAM



PROFILE
"A148" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

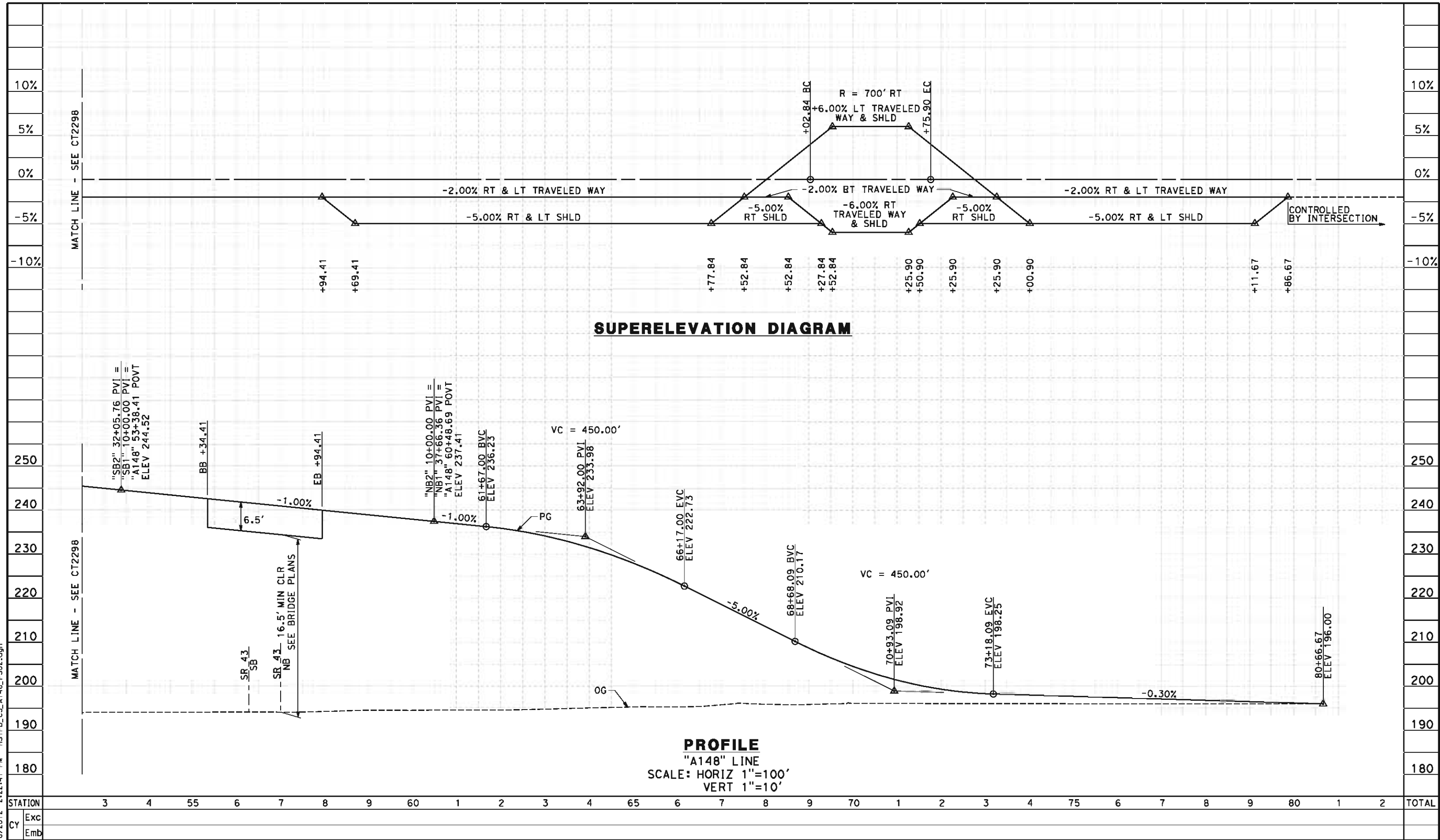
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 148

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2298
SCALE
AS SHOWN
SHEET NO.
38 OF 43

carlton_allen 5/16/2012 2:22:14 PM HSTFB_C3_A148_PS02.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

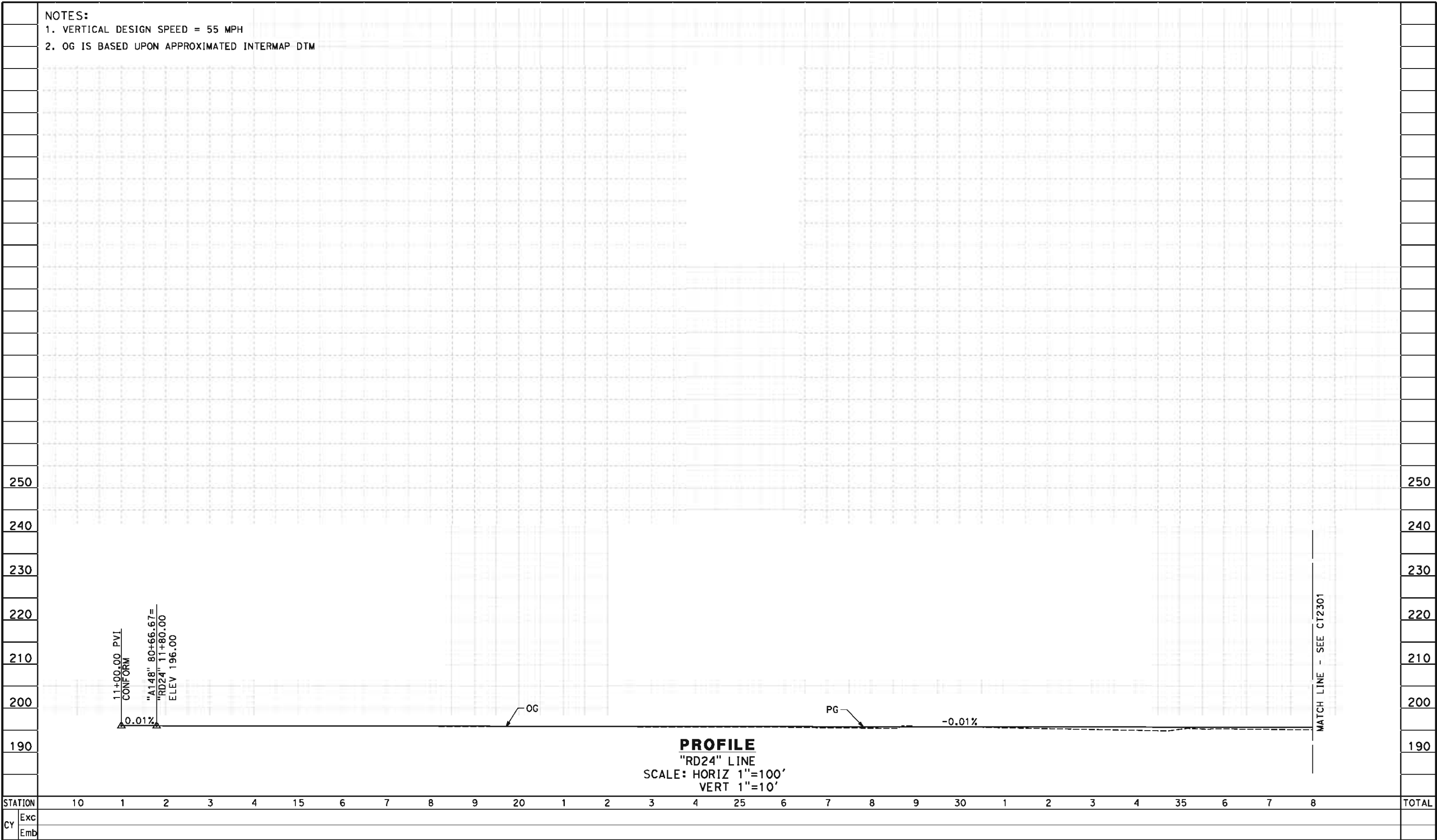


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 148

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2299
SCALE
AS SHOWN
SHEET NO.
39 OF 43

carlton_allen 5/16/2012 2:22:44 PM HSTFB_C3_RD24_PS01.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 55 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
S. KHAN

CHECKED BY
C. ALLEN

IN CHARGE
G. HORTON

DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



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

CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
RD 24

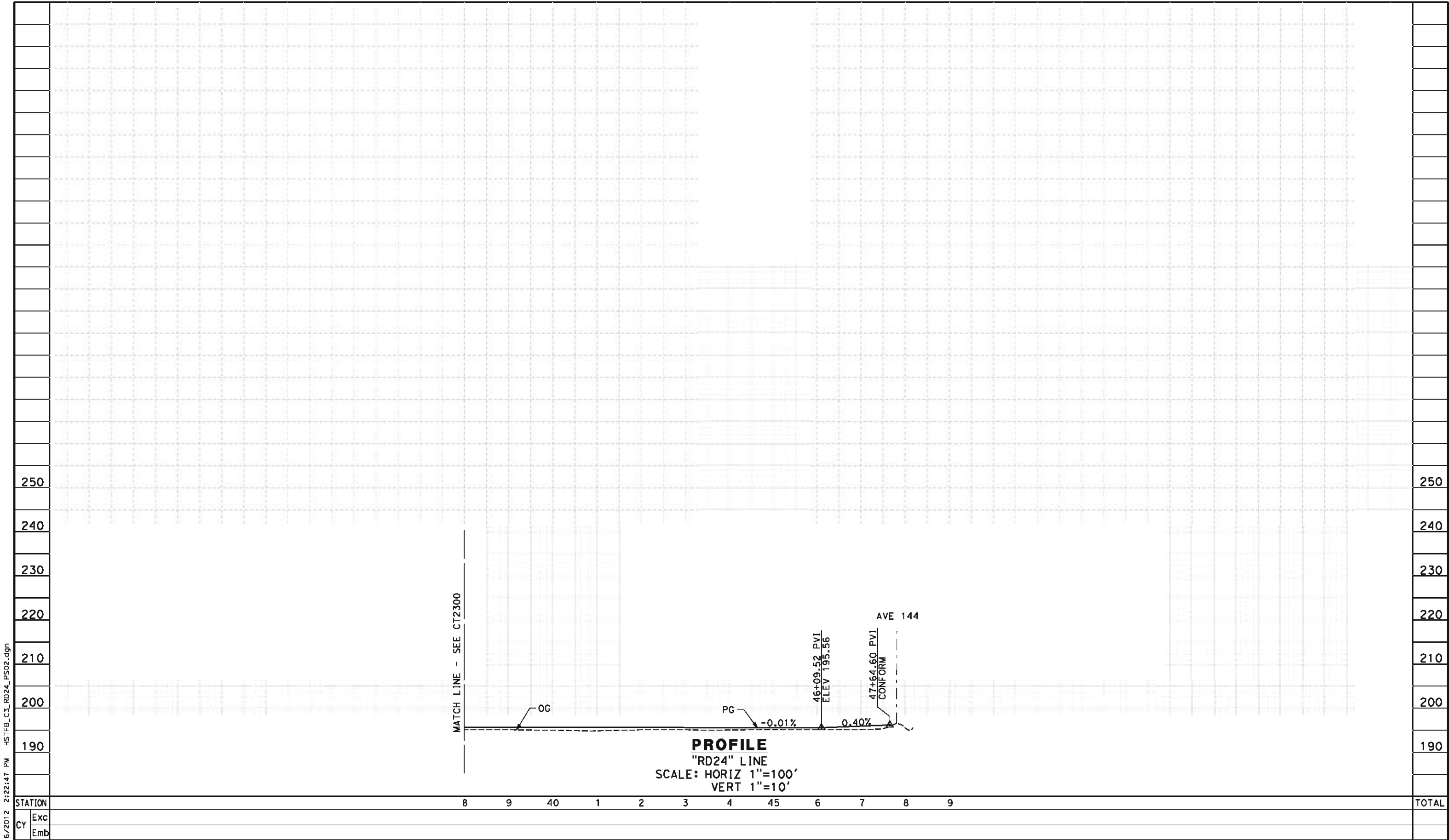
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2300

SCALE
AS SHOWN

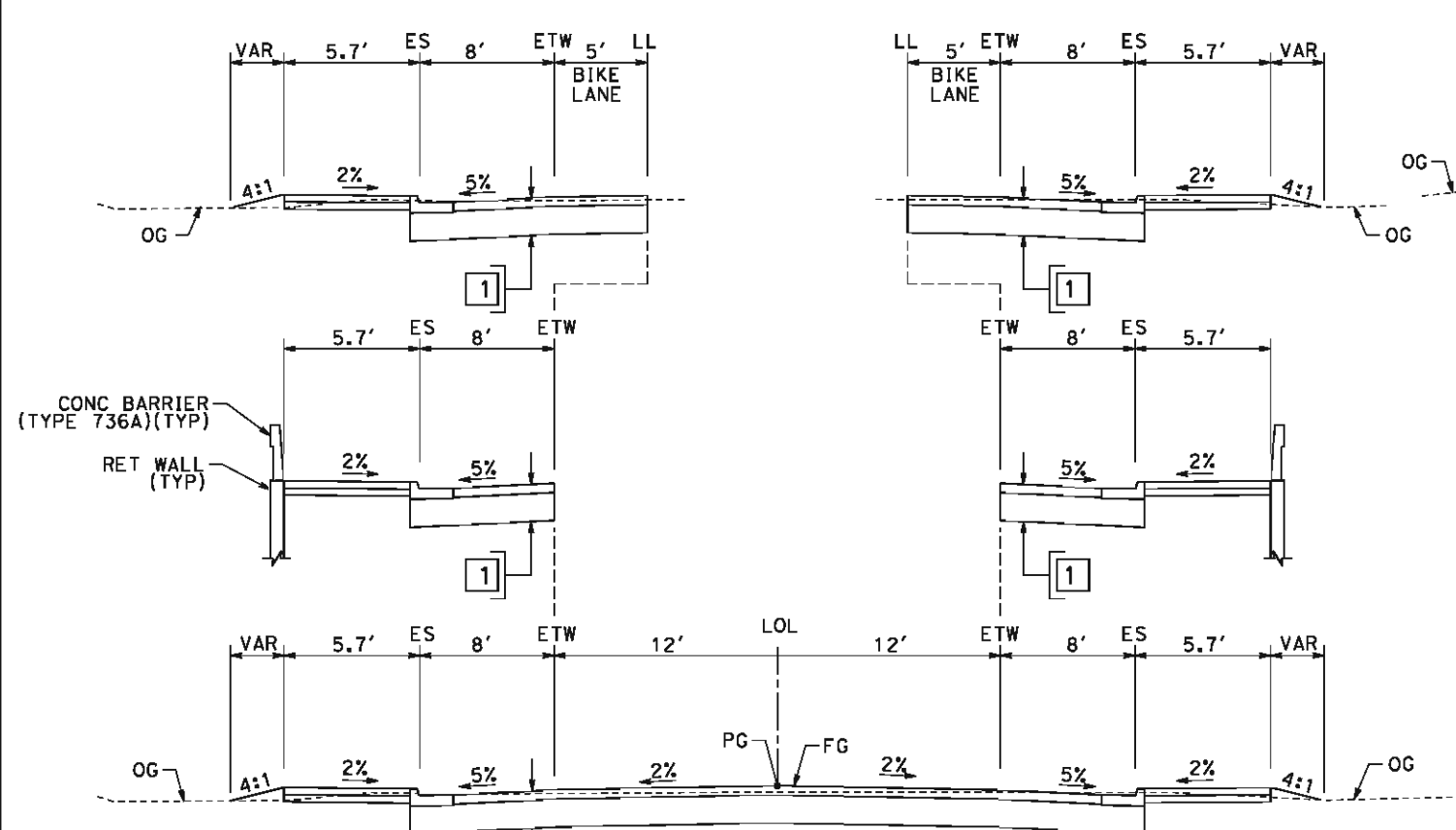
SHEET NO.
40 OF 43

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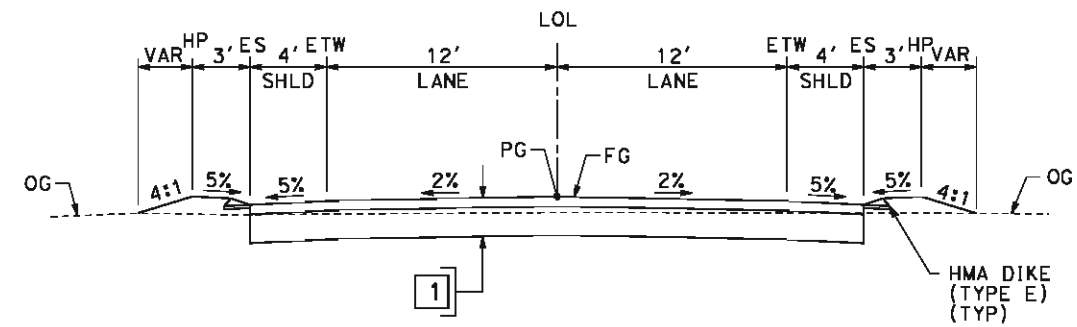
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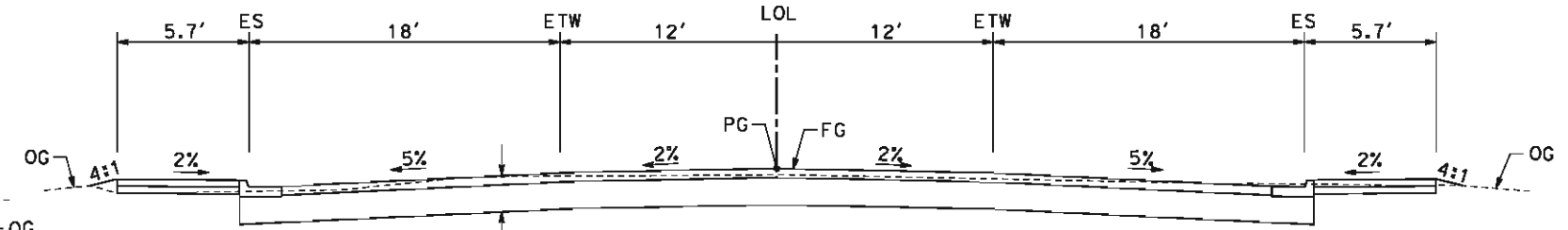
SECTION B

"OT" 11+00.00 TO 81+48.78
"RA" 10+00.00 TO 12+35.76
"OA" 10+00.00 TO 12+33.36
"NA" 10+00.00 TO 12+71.30
"PA" 10+00.00 TO 12+34.62



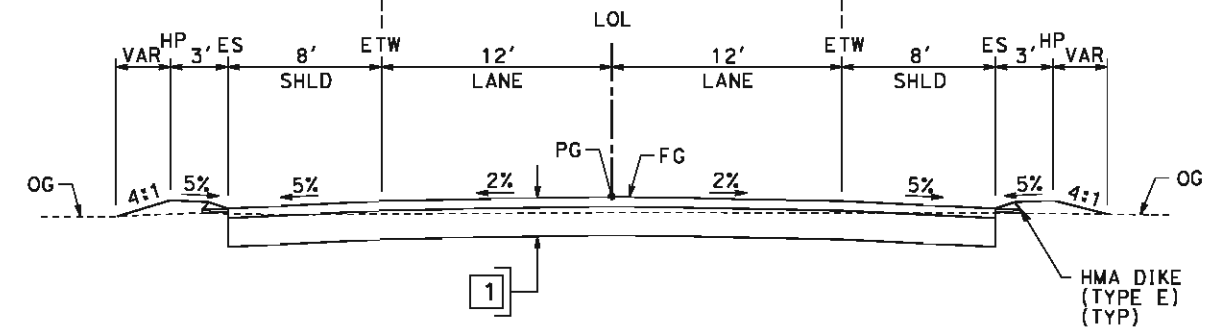
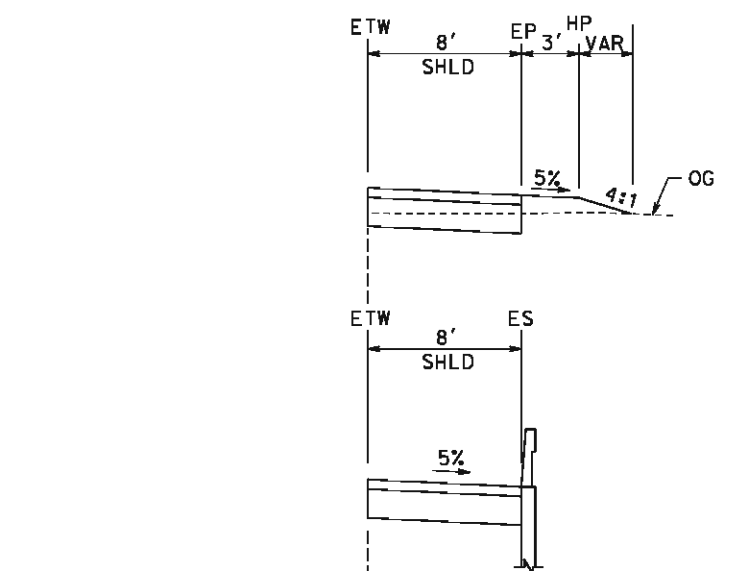
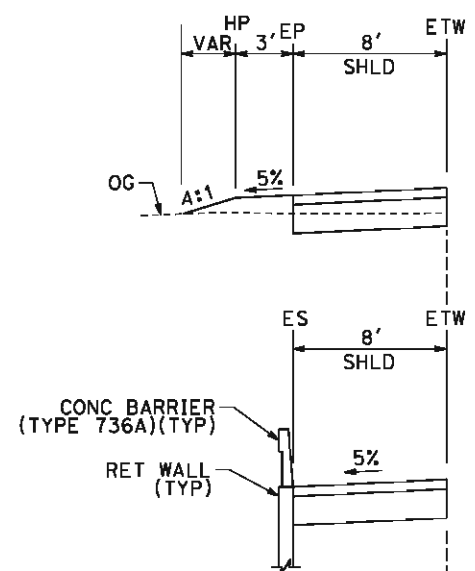
SECTION A

"SFA" 10+51.49 TO 27+90.97



SECTION E

"VA" 10+00.00 TO 12+32.10



SECTION D

"CS" 28+25.27 TO 65+22.52
"A148" 24+48.33 TO 80+66.67
"RD24" 11+00.00 TO 47+64.60

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

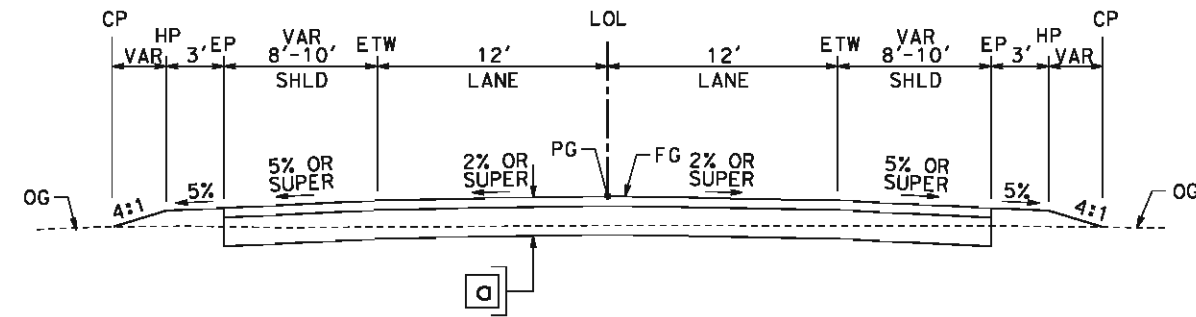
**NOT FOR
CONSTRUCTION**



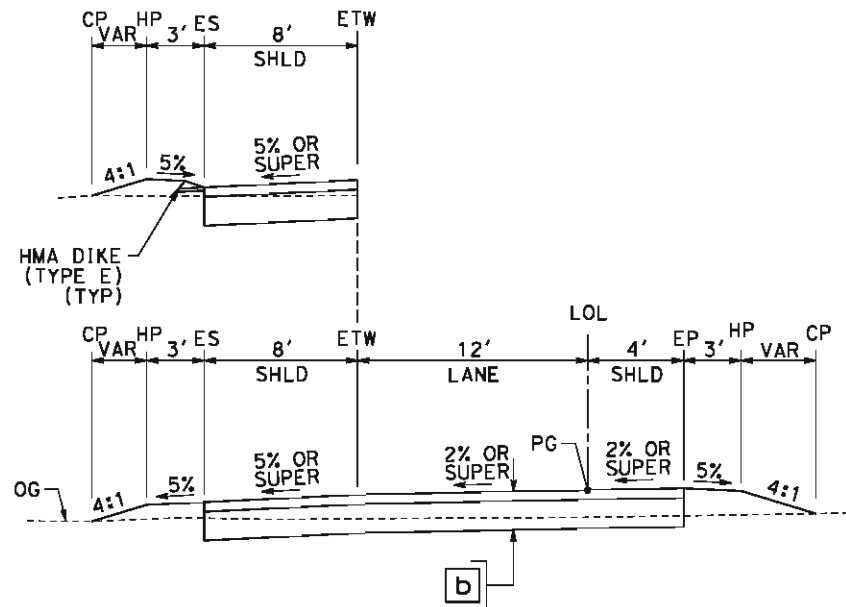
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3044
SCALE
AS SHOWN
SHEET NO.
42 OF 43

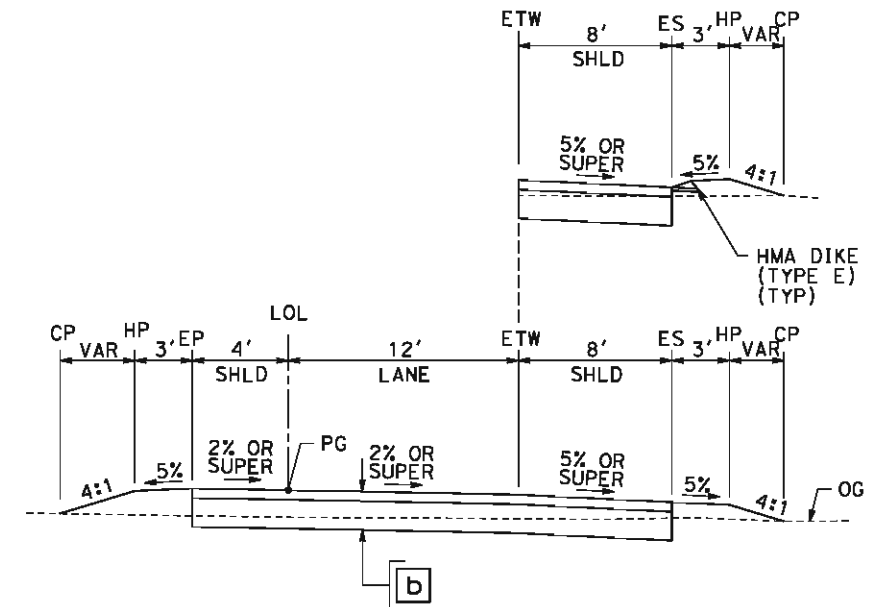
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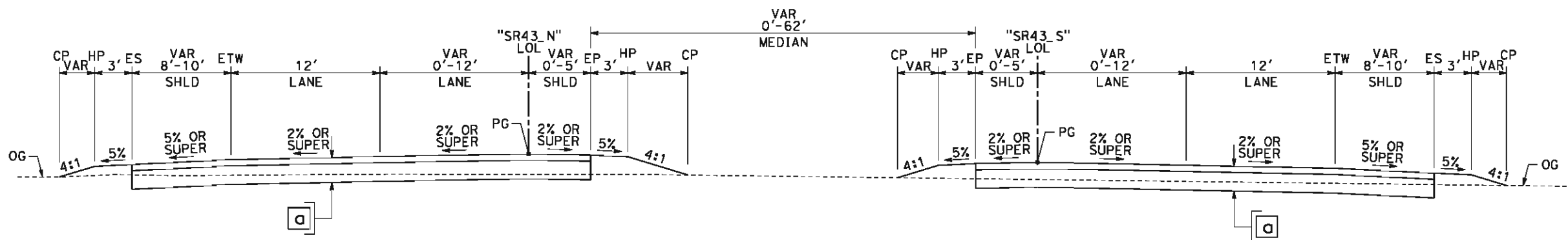
SECTION I
"SR43_S" 10+00.00 TO 12+38.22
"SR43_S" 159+40.72 TO 162+42.68



SECTION G
"NB1" 10+00.00 TO 37+66.36
"NB2" 10+00.00 TO 32+21.21



SECTION H
"SB1" 10+00.00 TO 37+53.10
"SB2" 10+00.00 TO 32+05.76



SECTION F
"SR43_N" 10+00.00 TO 156+95.50
"SR43_S" 12+38.22 TO 159+40.72

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3045
SCALE
AS SHOWN
SHEET NO.
43 OF 43

corlton_allen 5/16/2012 2:33:46 PM HSTFB_P_K01.dgn



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA
ANGIOLA DRIVE	3242+50.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

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CONSTRUCTION

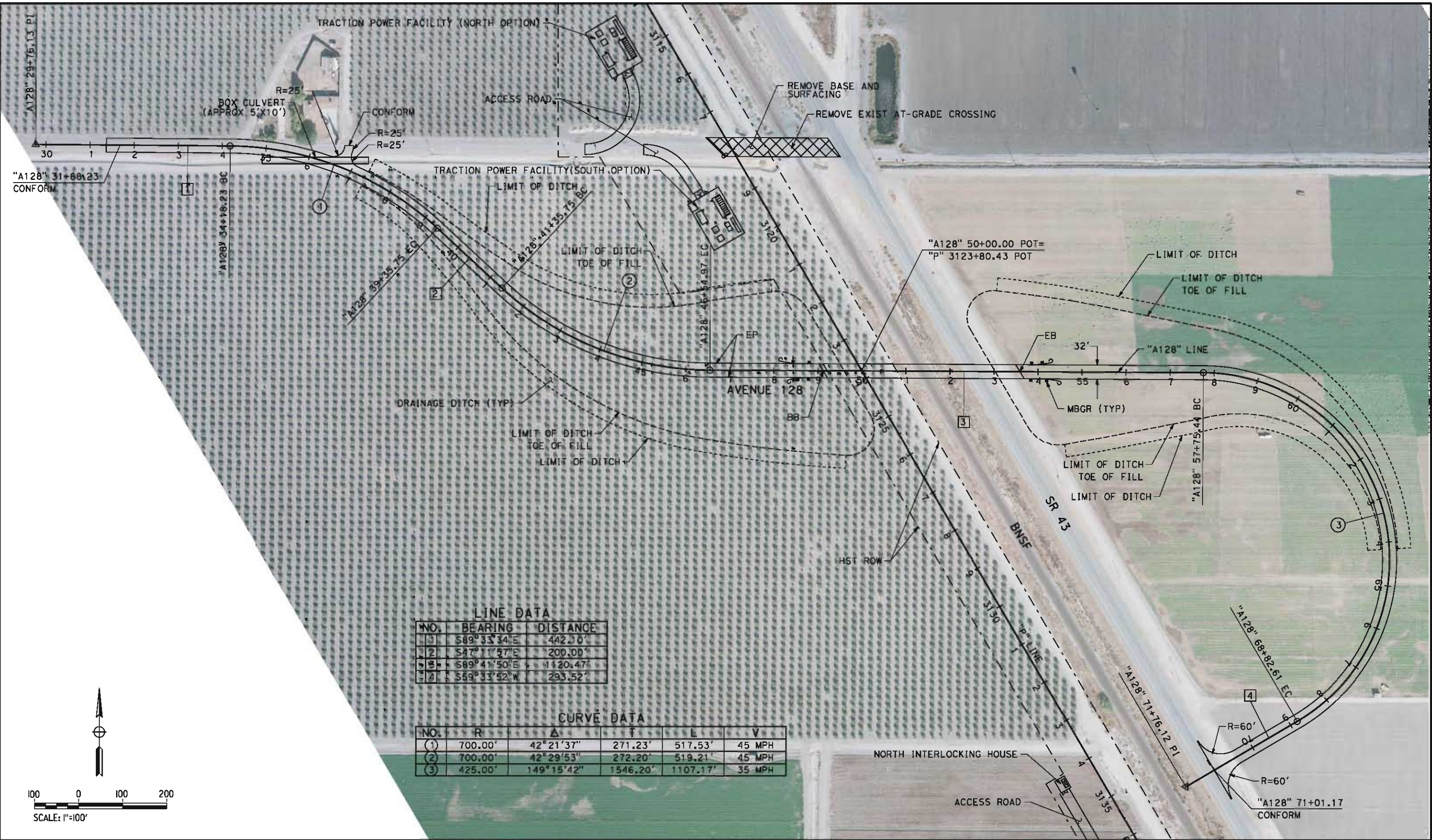


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB0100
SCALE	AS SHOWN
SHEET NO.	1 OF 16

cor/ton_allen 5/16/2012 2:34:47 PM HSTFB_P_A128_L01.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

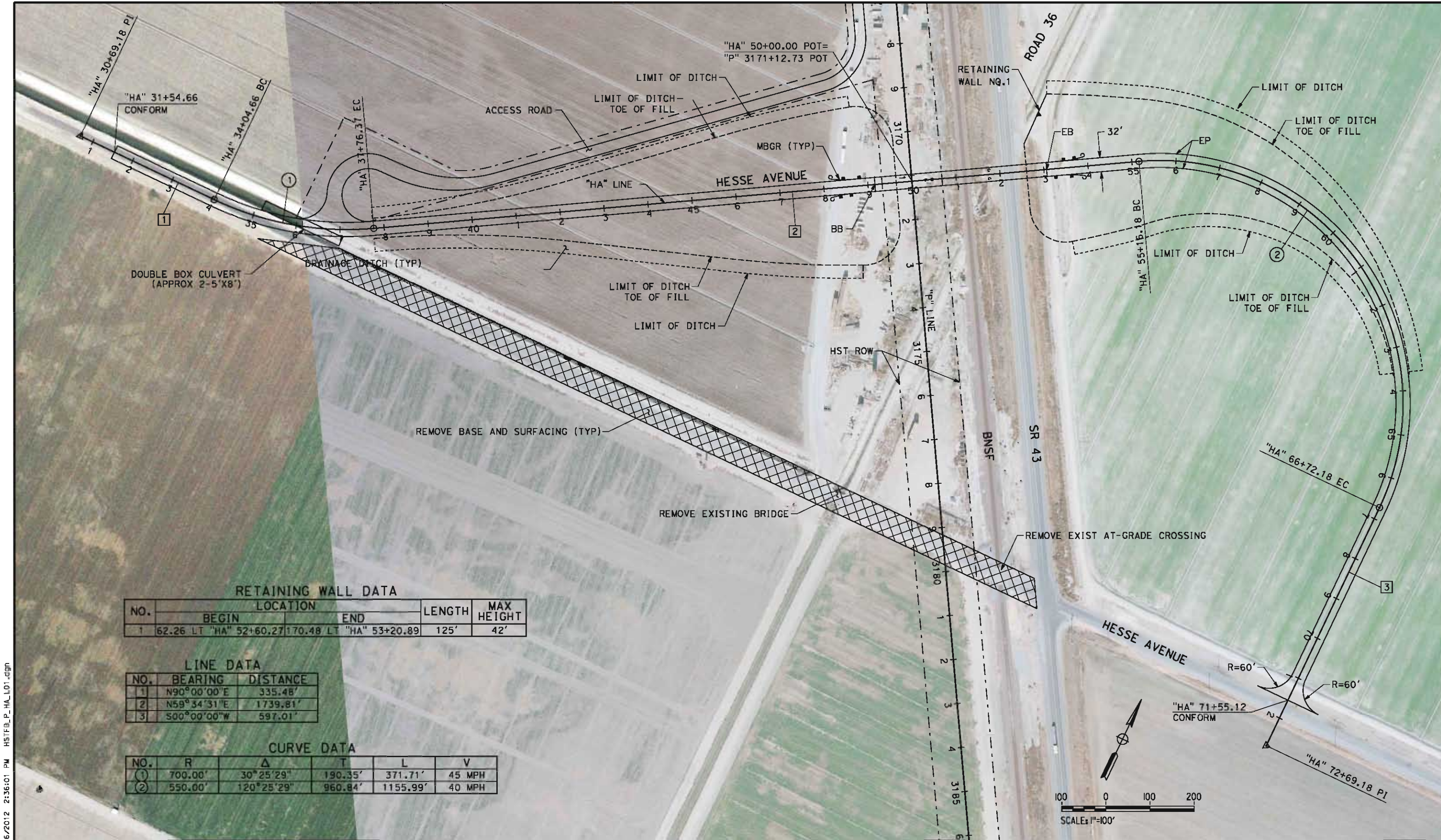
RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
AVE 128

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1401
SCALE
AS SHOWN
SHEET NO.
2 OF 16



RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	62.26 LT "HA" 52+60.27	170.48 LT "HA" 53+20.89	125'	42'

LINE DATA		
NO.	BEARING	DISTANCE
1	N90°00'00"E	335.48'
2	N59°34'31"E	1739.81'
3	S00°00'00"W	597.01'

CURVE DATA					
NO.	R	Δ	T	L	V
①	700.00'	30°25'29"	190.35'	371.71'	45 MPH
②	550.00'	120°25'29"	960.84'	1155.99'	40 MPH

cor/ton_allen 5/16/2012 2:36:01 PM HSTFB_P_HA_L01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



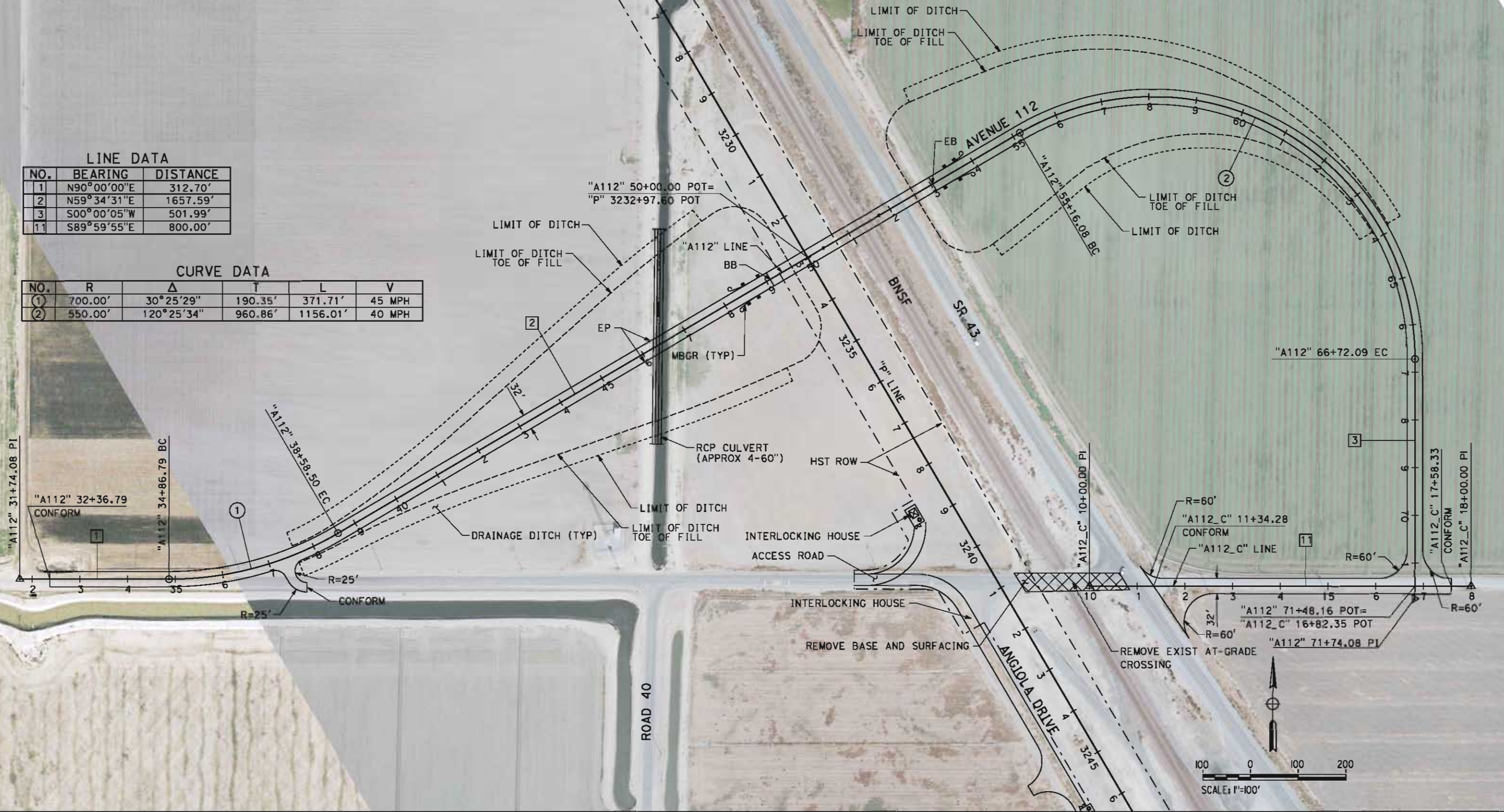
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
HESSE AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1411
SCALE
AS SHOWN
SHEET NO.
3 OF 16

cor/ton_allen 5/16/2012 2:36:58 PM HSTFB_P_A112_L01.dgn

LINE DATA		
NO.	BEARING	DISTANCE
1	N90°00'00"E	312.70'
2	N59°34'31"E	1657.59'
3	S00°00'05"W	501.99'
11	S89°59'55"E	800.00'

CURVE DATA					
NO.	R	Δ	T	L	V
1	700.00'	30°25'29"	190.35'	371.71'	45 MPH
2	550.00'	120°25'34"	960.86'	1156.01'	40 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

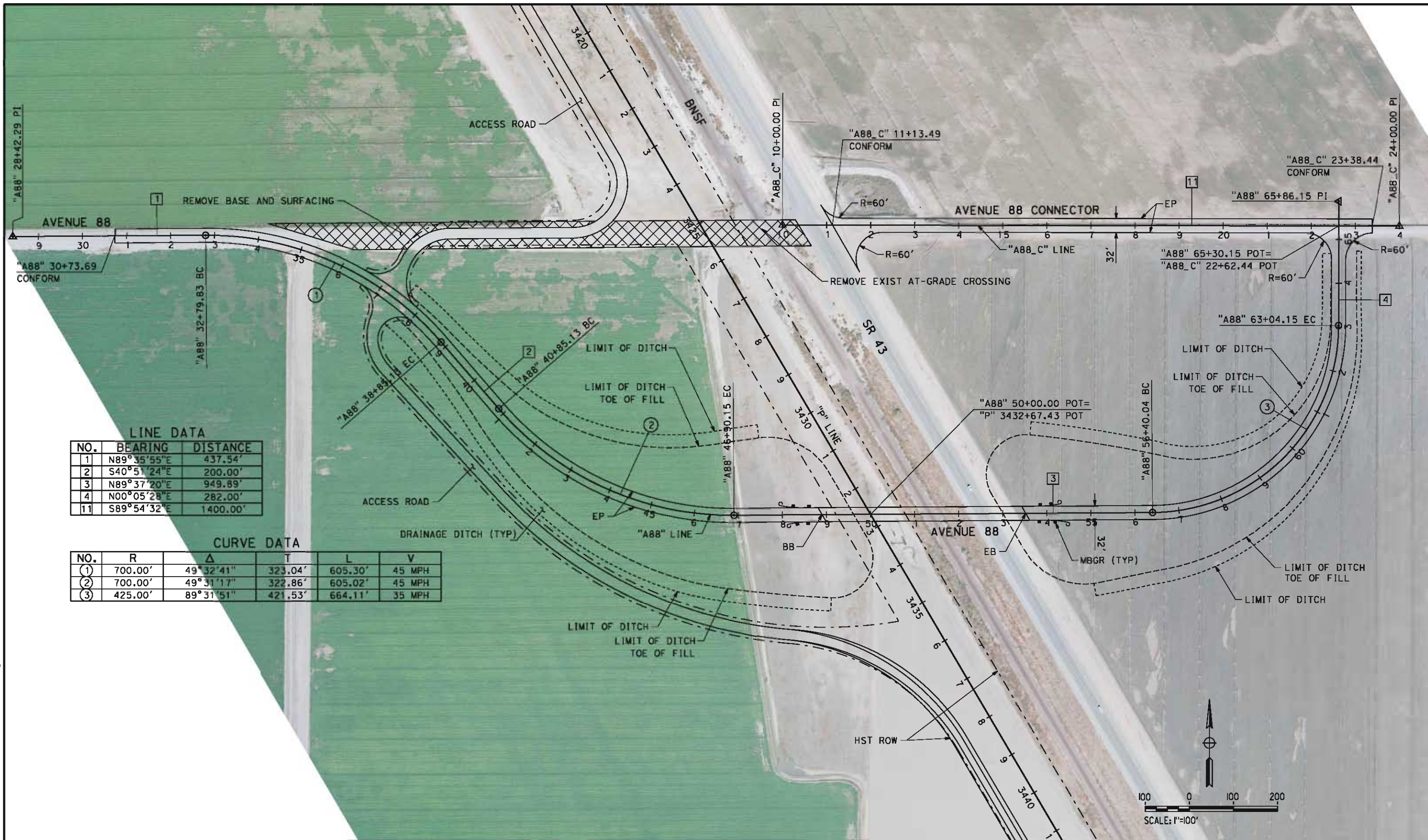
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
AVE 112

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1421
SCALE
AS SHOWN
SHEET NO.
4 OF 16

cor/ton_allen 5/16/2012 2:37:25 PM HSTFB_P_A88_LO1.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	N89°35'55"E	437.54'
2	S40°51'24"E	200.00'
3	N89°37'20"E	949.89'
4	N00°05'28"E	282.00'
11	S89°54'32"E	1400.00'

CURVE DATA

NO.	R	Δ	T	L	V
①	700.00'	49°32'41"	323.04'	605.30'	45 MPH
②	700.00'	49°31'17"	322.86'	605.02'	45 MPH
③	425.00'	89°31'51"	421.53'	664.11'	35 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

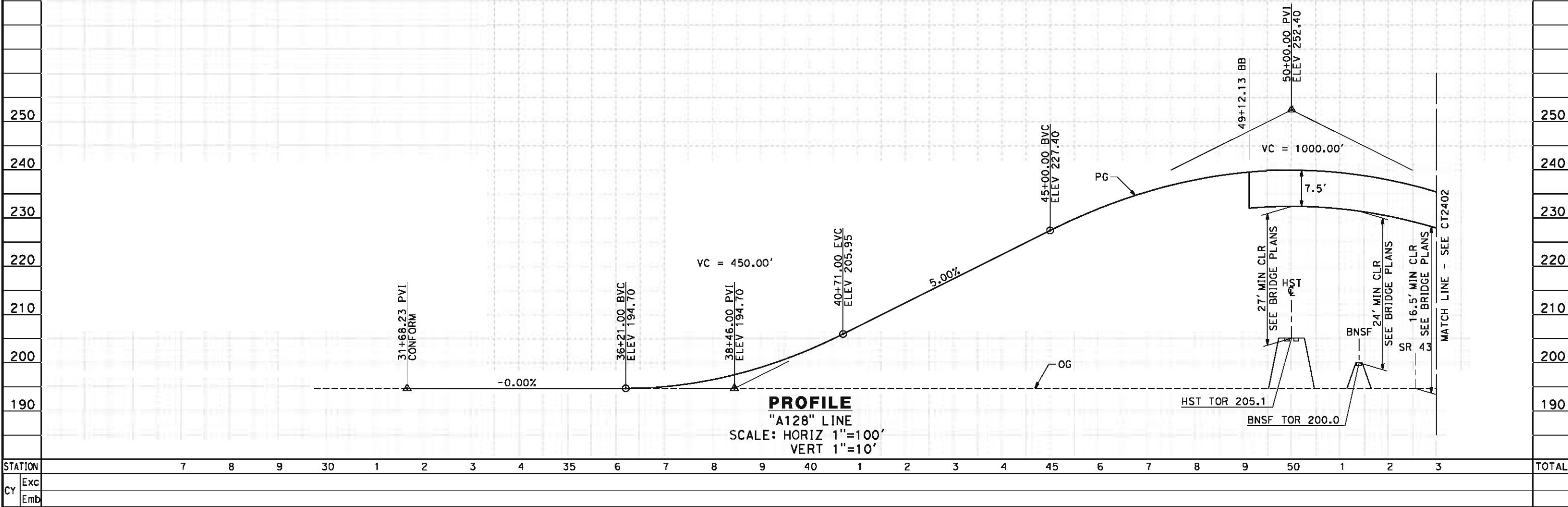
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
AVE 88

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1431
SCALE
AS SHOWN
SHEET NO.
5 OF 16

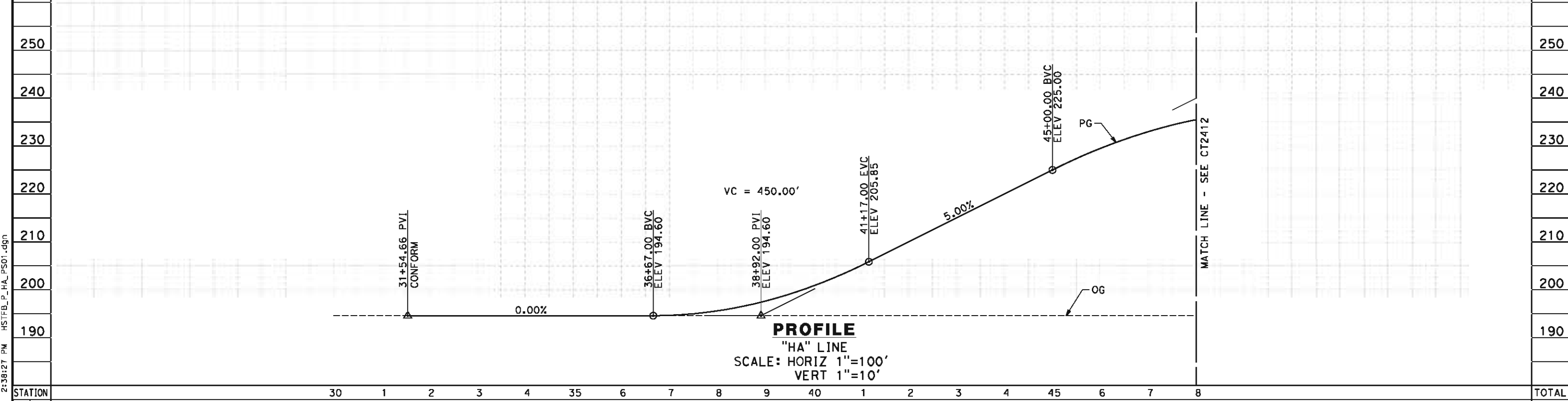
- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 - 2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
 - 3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY.
 - 4. VERTICAL DESIGN SPEED = 45 MPH
 - 5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



					DESIGNED BY M. POLISCHUK					RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD PIXLEY SUBSECTION ALIGNMENT P GRADE SEPARATION PROFILE AVE 128	CONTRACT NO. HSR 06-0003			
					DRAWN BY S. KHAN									DRAWING NO. CT2401			
					CHECKED BY C. ALLEN									SCALE AS SHOWN			
					IN CHARGE G. HORTON									SHEET NO. 6 OF 16			
					DATE 5/18/12												
REV	DATE	BY	CHK	APP	DESCRIPTION												

carlton_allen 5/16/2012 2:38:21 PM HSTFB_P_A128_P501.dgn

- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 - 2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
 - 3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY.
 - 4. VERTICAL DESIGN SPEED = 45 MPH
 - 5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION		30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	TOTAL
CY	Exc																				
	Emb																				

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

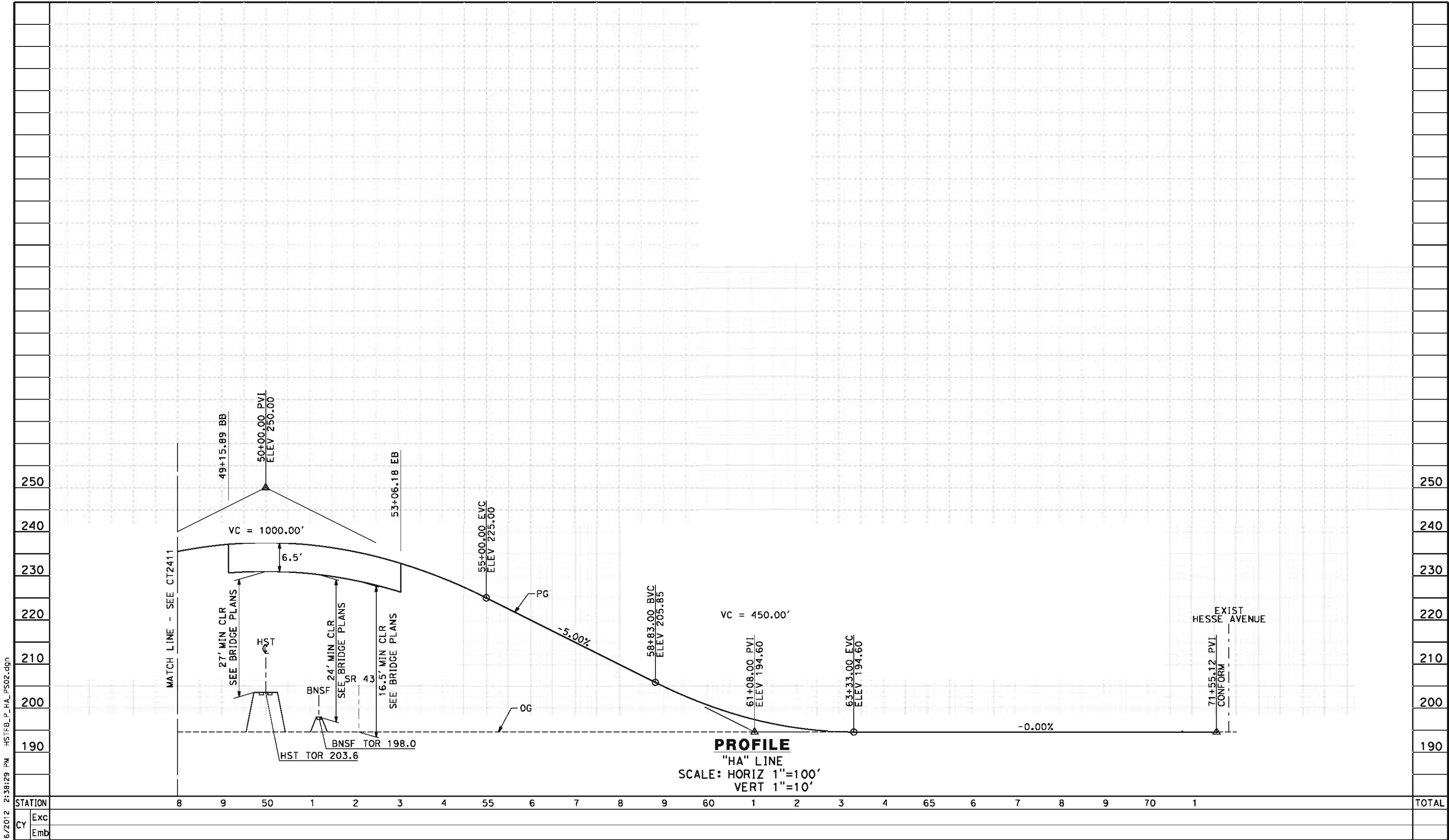


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
HESSE AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2411
SCALE
AS SHOWN
SHEET NO.
8 OF 16

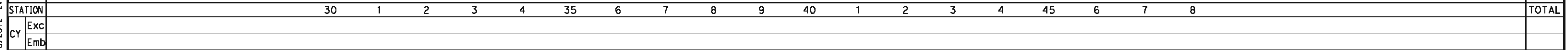
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carlton_allen 5/16/2012 2:38:29 PM HSTFB_P_HA_PS02.dgn



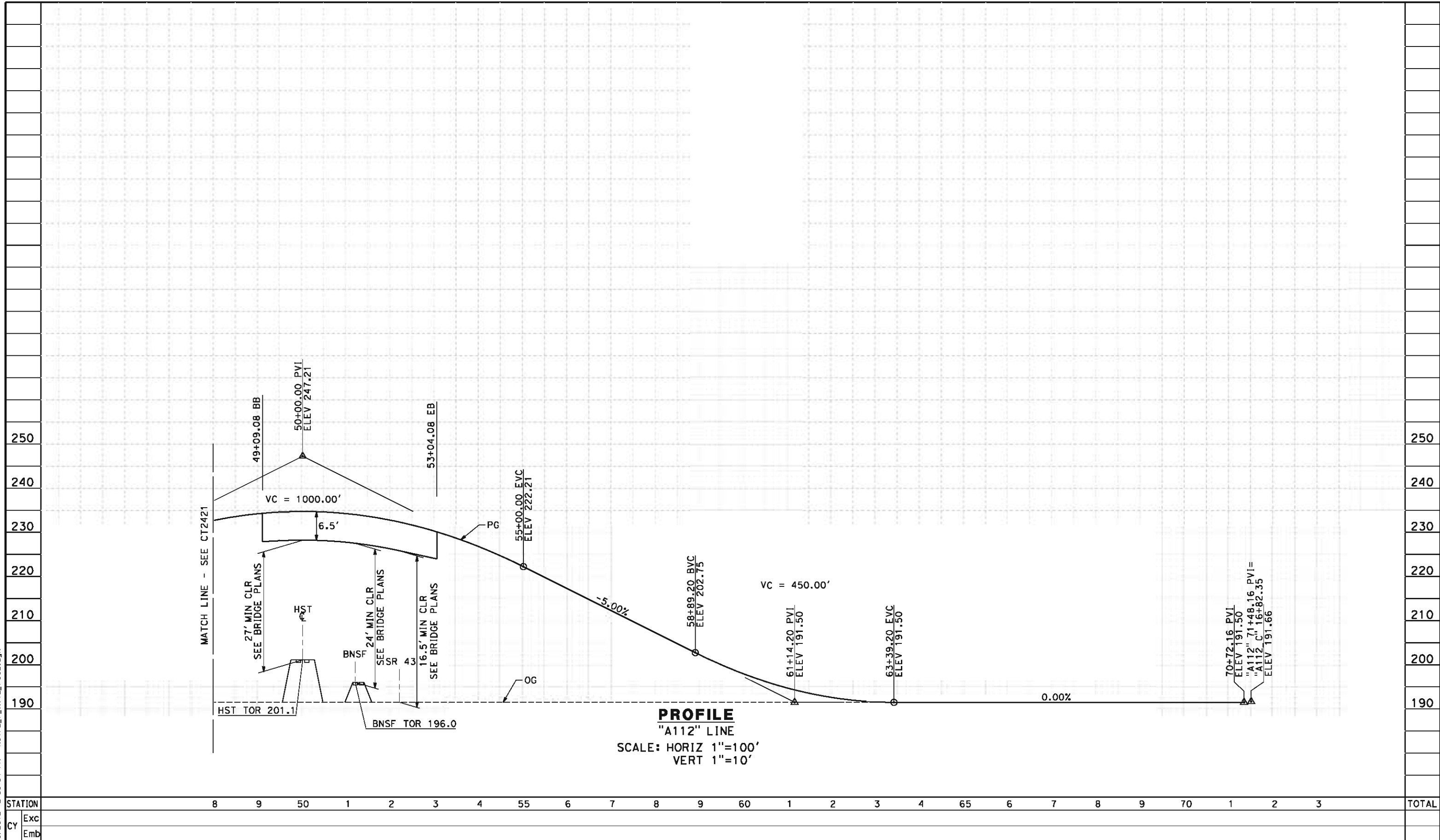
DESIGNED BY M. POLISCHUK						RECORD SET 15% DESIGN SUBMISSION						NOT FOR CONSTRUCTION						CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD						CONTRACT NO. HSR 06-0003					
DRAWN BY S. KHAN						CHECKED BY C. ALLEN						IN CHARGE G. HORTON						PIXLEY SUBSECTION ALIGNMENT P						DRAWING NO. CT2412					
DATE 5/18/12						SCALE AS SHOWN						SHEET NO. 9 OF 16						GRADE SEPARATION PROFILE HESSE AVE											
REV	DATE	BY	CHK	APP	DESCRIPTION																								

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY.
4. VERTICAL DESIGN SPEED = 45 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



						DESIGNED BY M. POLISCHUK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD PIXLEY SUBSECTION ALIGNMENT P GRADE SEPARATION PROFILE AVE 112	CONTRACT NO. HSR 06-0003
						DRAWN BY S. KHAN					DRAWING NO. CT2421
						CHECKED BY C. ALLEN					SCALE AS SHOWN
						IN CHARGE G. HORTON					SHEET NO. 10 OF 16
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 5/18/12					

carlton_allen 5/16/2012 2:38:34 PM HSTFB_P_A112_PS02.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



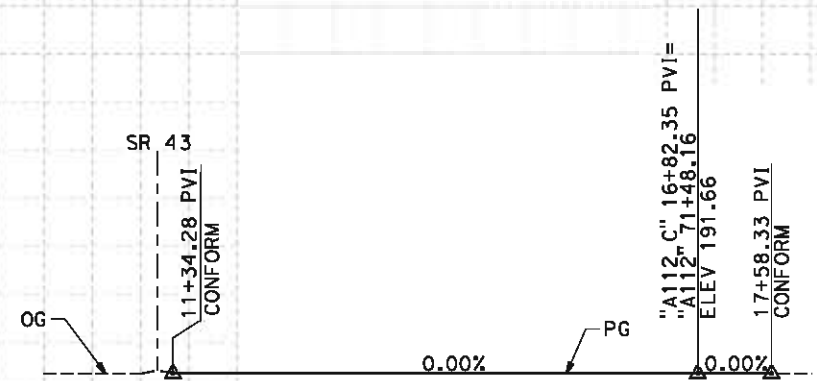
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 112

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2422
SCALE
AS SHOWN
SHEET NO.
11 OF 16

carlton_allen 5/16/2012 2:38:36 PM HSTFB_P_A112_C_PS01.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 55 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. SEE SHEET CT1421 FOR LAYOUT VIEW

210
200
190



PROFILE
"A112_C" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		10	1	2	3	4	15	6	7	8	TOTAL
CY	Exc										
	Emb										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

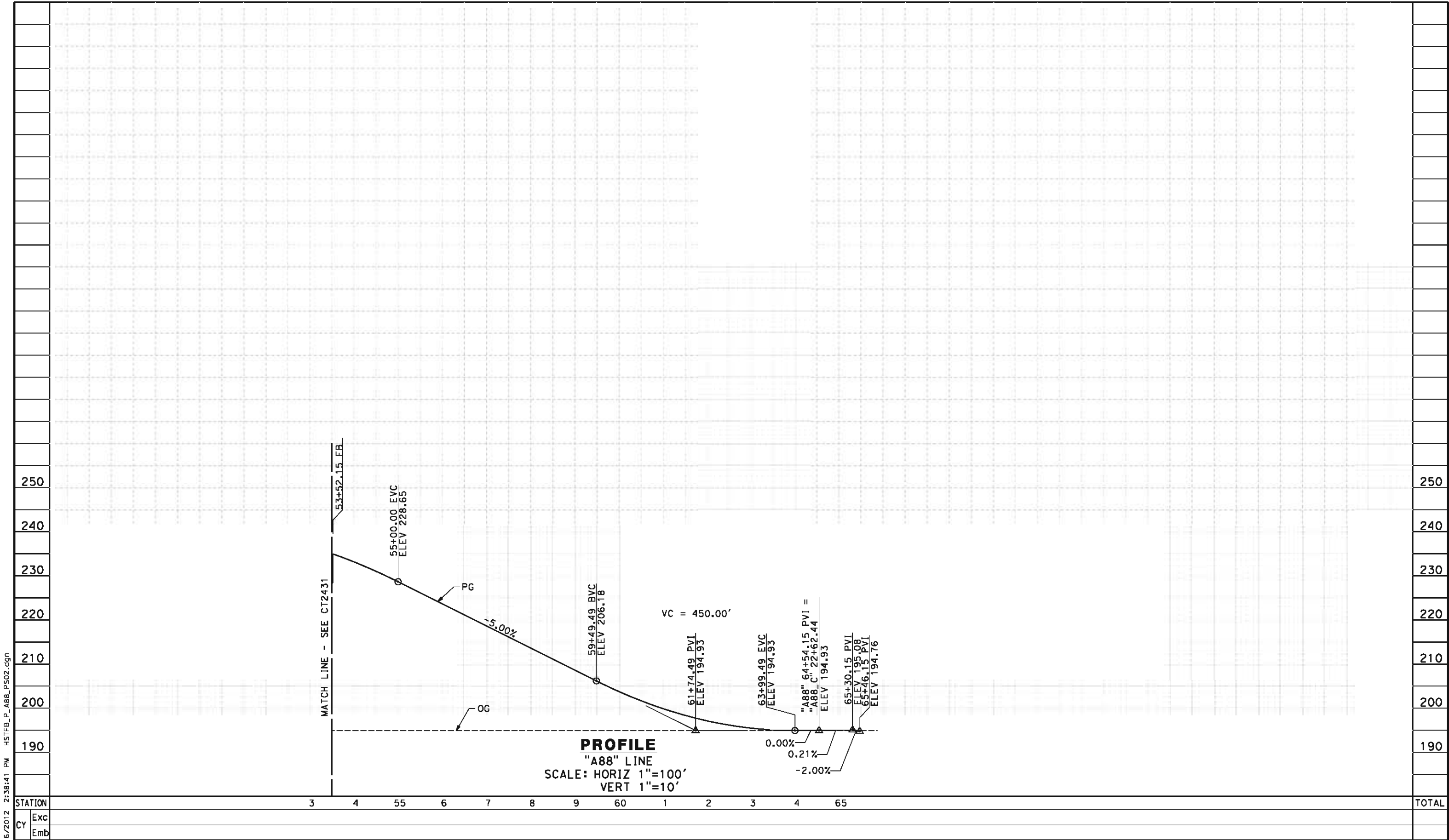
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 112 CONNECTOR

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2423
SCALE
AS SHOWN
SHEET NO.
12 OF 16

carlton_allen 5/16/2012 2:38:41 PM HSTFB_P_A88_PS02.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
S. KHAN
CHECKED BY
C. ALLEN
IN CHARGE
G. HORTON
DATE
5/18/12

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 88

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2432
SCALE
AS SHOWN
SHEET NO.
14 OF 16

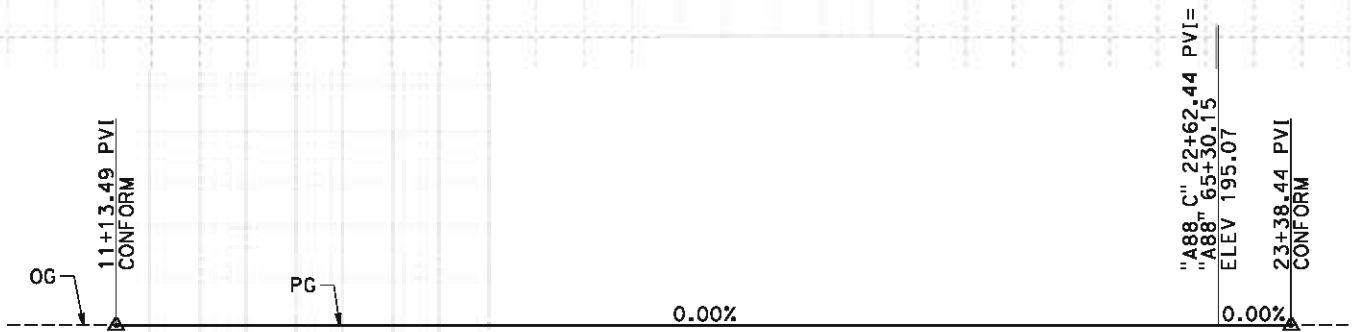
carlton_allen 5/16/2012 2:38:43 PM HSTFB_P_A88_C_PS01.dgn

- NOTES:
- 1. VERTICAL DESIGN SPEED = 55 MPH
 - 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 - 3. SEE SHEET CT1431 FOR LAYOUT VIEW

210

200

190



PROFILE
"A88_C" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	TOTAL
CY	Exc																	
	Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
S. KHAN

CHECKED BY
C. ALLEN

IN CHARGE
G. HORTON

DATE
5/18/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 88 CONNECTOR

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2433

SCALE
AS SHOWN

SHEET NO.
15 OF 16

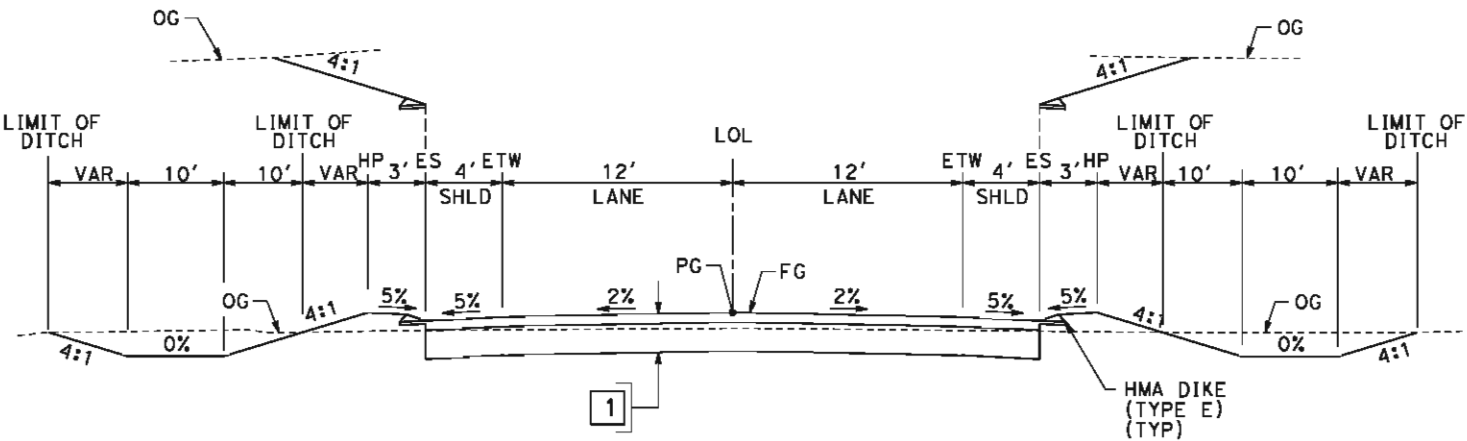
- NOTES:
- 1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - 2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

STRUCTURAL SECTIONS

TYPICAL ROADWAY

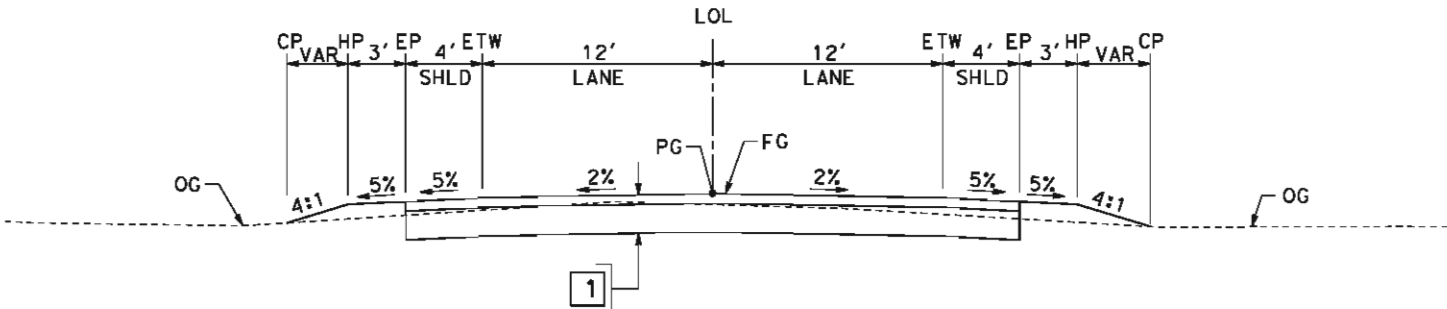
1

0.30' HMA (TYPE A)
1.40' CL 2 AB



SECTION A

"A128" 36+21.00 TO 49+12.13
"A128" 53+55.13 TO 63+79.00
"HA" 36+67.00 TO 49+15.89
"HA" 53+06.18 TO 63+33.00
"A112" 37+50.00 TO 49+09.08
"A112" 53+04.08 TO 63+39.20
"A88" 37+20.00 TO 48+90.15
"A88" 53+52.15 TO 63+99.49



SECTION B

"A128" 31+36.79 TO 36+21.00
"A128" 63+79.00 TO 71+01.17
"HA" 31+54.66 TO 36+67.00
"HA" 63+33.00 TO 71+55.12
"A112" 32+36.79 TO 37+50.00
"A112" 63+39.20 TO 70+72.61
"A112_C" 11+34.28 TO 17+58.33
"A88" 30+73.69 TO 37+20.00
"A88" 63+99.49 TO 65+30.15
"A88_C" 11+13.49 TO 23+38.44

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. POLISCHUK
DRAWN BY S. KHAN
CHECKED BY C. ALLEN
IN CHARGE G. HORTON
DATE 5/18/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3060
SCALE AS SHOWN
SHEET NO. 16 OF 16