

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

DRAFT

Fresno to Bakersfield Section
Draft EIR-EIS

Volume III: Section D – Roadway and Grade Separation Plans

Part 2 of 2

August 2011



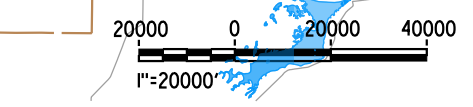
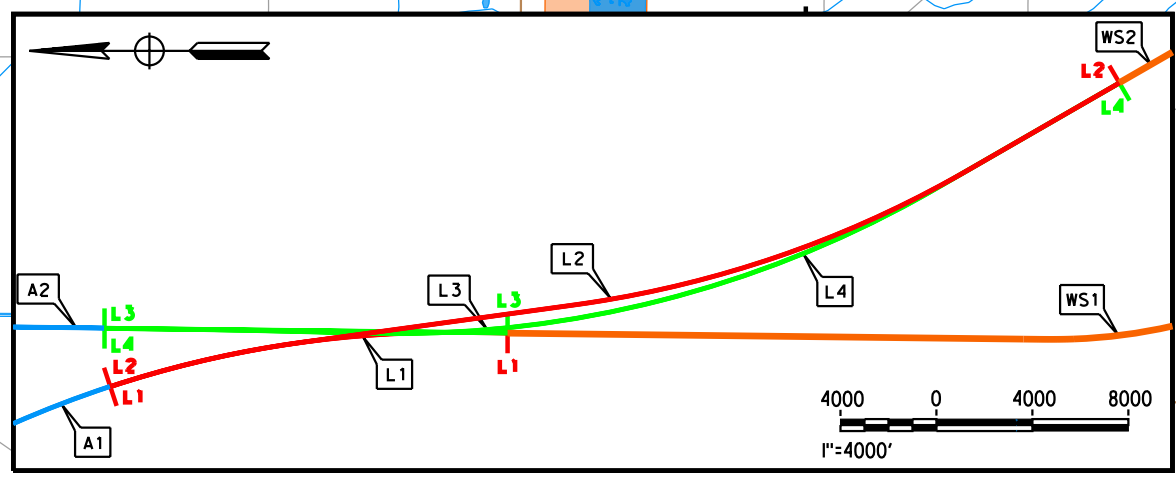
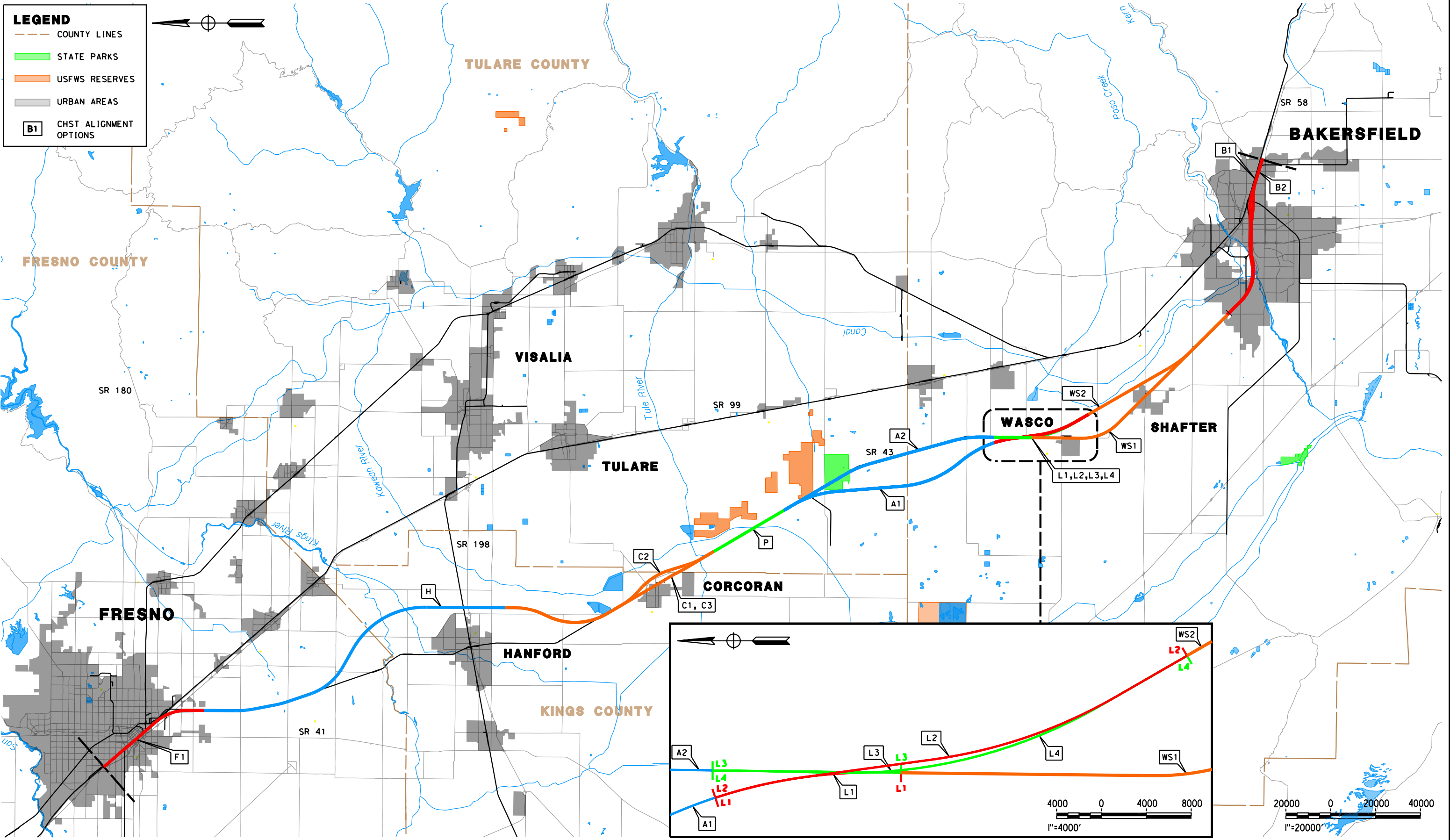
CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration



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REV	DATE	BY	CHK	APP	DESCRIPTION

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05/13/11

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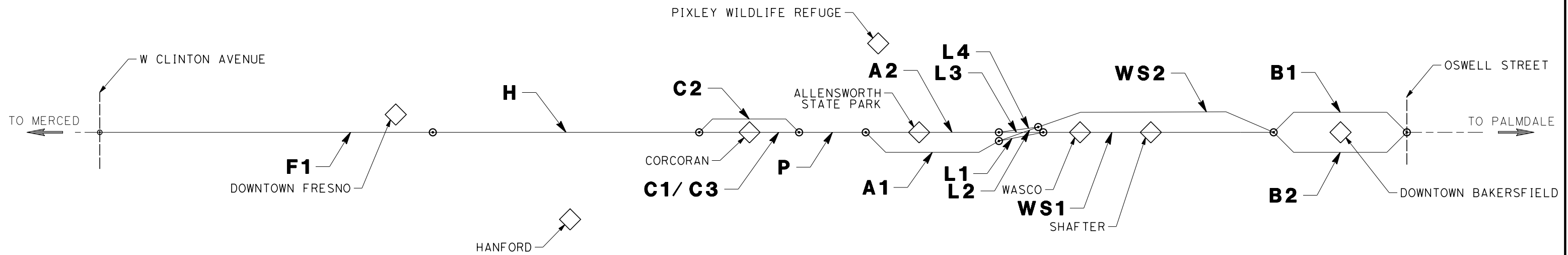


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT
LOCATION MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0001
SCALE
AS SHOWN
SHEET NO.
2 OF 13

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SUBSECTION CODE	NAME	LENGTH (MI)
F1	FRESNO	10.12
H	HANFORD	28.69
C1	CORCORAN (ELEVATED)	19.34
C2	CORCORAN BYPASS	19.49
C3	CORCORAN (AT GRADE)	19.36
P	PIXLEY	6.88
A1	ALLENSWORTH BYPASS	19.07
A2	THROUGH ALLENSWORTH	19.04
L1	POSO CREEK	3.18
L2	POSO CREEK	8.41
L3	POSO CREEK	3.18
L4	POSO CREEK	8.44
WS1	THROUGH WASCO-SHAFTER	20.63
WS2	WASCO-SHAFTER BYPASS	14.49
B1	BAKERSFIELD URBAN (NORTH)	11.96
B2	BAKERSFIELD URBAN (SOUTH)	11.89



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

ALIGNMENT
ALIGNMENT SUBSECTIONS DIAGRAM

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CB0002

SCALE
NO SCALE

SHEET NO.
3 OF 13

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GENERAL SHEETS

DRG NO.	DRAWING DESCRIPTION	SHEET NO.
	FRESNO TO BAKERSFIELD - ROADWAY & GRADE SEPARATION - COVER SHEET	SHEET 1 OF 13
CB0001	ALIGNMENT - LOCATION MAP	SHEET 2 OF 13
CB0002	ALIGNMENT - ALIGNMENT SUBSECTION DIAGRAM	SHEET 3 OF 13
CB1003	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 1 OF 8	SHEET 4 OF 13
CB1004	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 2 OF 8	SHEET 5 OF 13
CB1005	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 3 OF 8	SHEET 6 OF 13
CB1006	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 4 OF 8	SHEET 7 OF 13
CB1007	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 5 OF 8	SHEET 8 OF 13
CB1008	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 6 OF 8	SHEET 9 OF 13
CB1009	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 7 OF 8	SHEET 10 OF 13
CB1010	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 8 OF 8	SHEET 11 OF 13
CB0009	GENERAL - ABBREVIATIONS AND LEGEND - SHEET 1 OF 2	SHEET 12 OF 13
CB0010	GENERAL - ABBREVIATIONS AND LEGEND - SHEET 2 OF 2	SHEET 13 OF 13

REFER TO ROADWAY PLANS - PART 1 OF 2

GRADE SEPARATION PLANS - ALIGNMENT F1

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0040	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 47	NOT INCLUDED IN THIS PACKAGE 1
CT1001	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - W MCKINLEY AVE	SHEET 2 OF 47	
CT1005	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY LAYOUT - N GOLDEN STATE BLVD	SHEET 3 OF 47	
CT1007	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - W OLIVE AVE	SHEET 4 OF 47	
CT1008	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - BELMONT AVE	SHEET 5 OF 47	
CT1011	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - STANISLAUS ST & TUOLUMNE ST	SHEET 6 OF 47	
CT1013	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - FRESNO ST	SHEET 7 OF 47	
CT1016	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - TULARE ST OVERHEAD	SHEET 8 OF 47	
CT1017	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - TULARE ST UNDERPASS	SHEET 9 OF 47	
CT1019	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - VENTURA ST	SHEET 10 OF 47	
CT1020	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - CHURCH AVE	SHEET 11 OF 47	
CT1025	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E CENTRAL AVE	SHEET 12 OF 47	
CT1026	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E CENTRAL AVE	SHEET 13 OF 47	
CT1028	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E AMERICAN AVE	SHEET 14 OF 47	

ALIGNMENT F1 - CONT'D

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CT2001	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - W MCKINLEY AVE	SHEET 15 OF 47	NOT INCLUDED IN THIS PACKAGE 1
CT2002	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM MCKINLEY CONNECTOR	SHEET 16 OF 47	
CT2003	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - N WEBER AVE	SHEET 17 OF 47	
CT2004	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - N WEST AVE	SHEET 18 OF 47	
CT2005	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM N GOLDEN STATE BLVD	SHEET 19 OF 47	
CT2006	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM N GOLDEN STATE BLVD	SHEET 20 OF 47	
CT2007	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - W OLIVE AVE	SHEET 21 OF 47	
CT2008	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - BELMONT AVE	SHEET 22 OF 47	
CT2009	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - N WESLEY AVE	SHEET 23 OF 47	
CT2010	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - N H ST	SHEET 24 OF 47	
CT2011	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STANISLAUS ST	SHEET 25 OF 47	
CT2012	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - TUOLUMNE ST	SHEET 26 OF 47	
CT2013	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - FRESNO ST	SHEET 27 OF 47	
CT2014	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM H ST (FRESNO ST)	SHEET 28 OF 47	
CT2015	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM G ST (FRESNO ST)	SHEET 29 OF 47	
CT2016	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM TULARE ST - OVERHEAD	SHEET 30 OF 47	
CT2017	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM TULARE ST - UNDERPASS	SHEET 31 OF 47	
CT2018	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM G ST (TULARE ST UNDERPASS)	SHEET 32 OF 47	
CT2019	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - VENTURA ST	SHEET 33 OF 47	
CT2020	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E CHURCH AVE	SHEET 34 OF 47	
CT2021	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM G ST (E CHURCH AVE)	SHEET 35 OF 47	
CT2022	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - S SUNLAND AVE	SHEET 36 OF 47	
CT2023	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM OLD EAST CHURCH AVE	SHEET 37 OF 47	
CT2024	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM S GOLDEN STATE BLVD	SHEET 38 OF 47	
CT2025	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E CENTRAL AVE	SHEET 39 OF 47	
CT2026	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E CENTRAL AVE	SHEET 40 OF 47	
CT2027	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - S CEDAR AVE	SHEET 41 OF 47	
CT2028	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E AMERICAN AVE	SHEET 42 OF 47	
CR1001	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY LAYOUT - N THORNE AVE	SHEET 43 OF 47	
CR2001	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY PROFILE & SUPERELEVATION DIAGRAM - N THORNE AVE	SHEET 44 OF 47	
CT3001	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 45 OF 47	
CT3002	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 46 OF 47	
CT3003	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 47 OF 47	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 1 OF 8

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1003
SCALE
NO SCALE
SHEET NO.
4 OF 13

GRADE SEPARATION PLANS - ALIGNMENT H

ALIGNMENT H - CONT'D

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.	DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0050	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 101	1	CT1139	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 39 OF 101	1
CB0051	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 2 OF 101		CT1140	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 40 OF 101	
CT1101	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E LINCOLN AVE	SHEET 3 OF 101		CT1141	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 41 OF 101	
CT1102	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E CLAYTON AVE	SHEET 4 OF 101		CT1144	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HANFORD ARMONA RD	SHEET 42 OF 101	
CT1103	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E ADAMS AVE	SHEET 5 OF 101		CT1145	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HANFORD ARMONA RD	SHEET 43 OF 101	
CT1104	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E SOUTH AVE	SHEET 6 OF 101		CT1146	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 44 OF 101	
CT1105	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E SOUTH AVE	SHEET 7 OF 101		CT1147	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 45 OF 101	
CT1106	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E MANNING AVE	SHEET 8 OF 101		CT1148	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 46 OF 101	
CT1107	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E SPRINGFIELD AVE	SHEET 9 OF 101		CT1149	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 47 OF 101	
CT1109	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E FLORAL AVE	SHEET 10 OF 101		CT2101	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E LINCOLN AVE	SHEET 48 OF 101	
CT1110	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E FLORAL AVE	SHEET 11 OF 101		CT2102	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E CLAYTON AVE	SHEET 49 OF 101	
CT1111	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E NEBRASKA AVE	SHEET 12 OF 101		CT2103	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E ADAMS AVE	SHEET 50 OF 101	
CT1112	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E NEBRASKA AVE	SHEET 13 OF 101		CT2104	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E SOUTH AVE	SHEET 51 OF 101	
CT1113	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E MOUNTAIN VIEW AVE	SHEET 14 OF 101		CT2105	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E SOUTH AVE	SHEET 52 OF 101	
CT1114	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E MOUNTAIN VIEW AVE	SHEET 15 OF 101		CT2106	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E MANNING AVE	SHEET 53 OF 101	
CT1115	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S CHESTNUT AVE (NORTH)	SHEET 16 OF 101		CT2107	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM E SPRINGFIELD AVE	SHEET 54 OF 101	
CT1116	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S CHESTNUT AVE (SOUTH)	SHEET 17 OF 101		CT2108	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - S CHANCE AVE	SHEET 55 OF 101	
CT1117	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 18 OF 101		CT2109	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E FLORAL AVE	SHEET 56 OF 101	
CT1118	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 19 OF 101		CT2110	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E FLORAL AVE	SHEET 57 OF 101	
CT1119	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 20 OF 101		CT2111	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E NEBRASKA AVE	SHEET 58 OF 101	
CT1120	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 21 OF 101		CT2112	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E NEBRASKA AVE	SHEET 59 OF 101	
CT1121	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S FOWLER AVE	SHEET 22 OF 101		CT2113	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM E MOUNTAIN VIEW AVE	SHEET 60 OF 101	
CT1122	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S FOWLER AVE	SHEET 23 OF 101		CT2114	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM E MOUNTAIN VIEW AVE	SHEET 61 OF 101	
CT1123	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E DAVIS AVE	SHEET 24 OF 101		CT2115	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM S CHESTNUT AVE (NORTH)	SHEET 62 OF 101	
CT1124	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E DAVIS AVE	SHEET 25 OF 101		CT2116	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM S CHESTNUT AVE (SOUTH)	SHEET 63 OF 101	
CT1125	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT STATE ROUTE 43 - KINGS RIVER LEVEE ACCESS	SHEET 26 OF 101		CT2117	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - S CLOVIS AVE	SHEET 64 OF 101	
CT1126	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - KINGS RIVER LEVEE ACCESS	SHEET 27 OF 101		CT2118	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - S CLOVIS AVE	SHEET 65 OF 101	
CT1128	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - CAIRO AVE	SHEET 28 OF 101		CT2119	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E ELKHORN AVE	SHEET 66 OF 101	
CT1129	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - CAIRO AVE	SHEET 29 OF 101		CT2120	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E ELKHORN AVE	SHEET 67 OF 101	
CT1130	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - DOVER AVE	SHEET 30 OF 101					
CT1131	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - DOVER AVE	SHEET 31 OF 101					
CT1132	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - 8TH AVE (NORTH)	SHEET 32 OF 101					
CT1133	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - 8TH AVE (SOUTH)	SHEET 33 OF 101					
CT1134	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 34 OF 101					
CT1135	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 35 OF 101					
CT1136	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - ELDER AVE	SHEET 36 OF 101					
CT1137	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - ELDER AVE	SHEET 37 OF 101					
CT1138	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 38 OF 101					

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
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ROADWAY & GRADE SEPARATION
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SHEET 2 OF 8

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ALIGNMENT H - CONT'D

GRADE SEPARATION PLANS - ALIGNMENT C1

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CT2121	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - S FOWLER AVE	SHEET 68 OF 101	
CT2122	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - S FOWLER AVE	SHEET 69 OF 101	
CT2123	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E DAVIS AVE	SHEET 70 OF 101	
CT2124	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - E DAVIS AVE	SHEET 71 OF 101	
CT2125	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43	SHEET 72 OF 101	
CT2126	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KINGS RIVER LEVEE ACCESS	SHEET 73 OF 101	
CT2127	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KINGS RIVER LEVEE ACCESS	SHEET 74 OF 101	
CT2128	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - CAIRO AVE	SHEET 75 OF 101	
CT2129	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - CAIRO AVE	SHEET 76 OF 101	
CT2130	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - DOVER AVE	SHEET 77 OF 101	
CT2131	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - DOVER AVE	SHEET 78 OF 101	
CT2132	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - 8TH AVE (NORTH)	SHEET 79 OF 101	
CT2133	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - 8TH AVE (SOUTH)	SHEET 80 OF 101	
CT2134	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - EXCELSIOR AVE	SHEET 81 OF 101	
CT2135	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - EXCELSIOR AVE	SHEET 82 OF 101	
CT2136	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ELDER AVE	SHEET 83 OF 101	
CT2137	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ELDER AVE	SHEET 84 OF 101	
CT2138	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - FLINT AVE	SHEET 85 OF 101	
CT2139	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - FLINT AVE	SHEET 86 OF 101	
CT2140	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - FARGO AVE	SHEET 87 OF 101	
CT2141	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - FARGO AVE	SHEET 88 OF 101	
CT2142	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM 7 1/2 AVE CONNECTOR	SHEET 89 OF 101	
CT2143	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - 7 1/2 AVE	SHEET 90 OF 101	
CT2144	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM HANFORD ARMONA RD	SHEET 91 OF 101	
CT2145	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM HANFORD ARMONA RD	SHEET 92 OF 101	
CT2146	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - HOUSTON AVE	SHEET 93 OF 101	
CT2147	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - HOUSTON AVE	SHEET 94 OF 101	
CT2148	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - IONA AVE	SHEET 95 OF 101	
CT2149	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - IONA AVE	SHEET 96 OF 101	
CR1251	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY LAYOUT - E CLARKSON AVE AND S MINNEWAWA AVE	SHEET 97 OF 101	
CR2251	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY PROFILE & SUPERELEVATION DIAGRAM E CLARKSON AVE AND S MINNEWAWA AVE	SHEET 98 OF 101	
CR2252	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY PROFILE & SUPERELEVATION DIAGRAM E CLARKSON AVE AND S MINNEWAWA AVE	SHEET 99 OF 101	
CT3030	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 100 OF 101	
CT3031	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 101 OF 101	

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0060	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 34	
CT1201	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 2 OF 34	
CT1202	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 3 OF 34	
CT1203	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 4 OF 34	
CT1204	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 5 OF 34	
CT1205	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (JERSEY AVE)	SHEET 6 OF 34	
CT1206	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 7 OF 34	
CT1207	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 8 OF 34	
CT1208	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 9 OF 34	
CT1209	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 10 OF 34	
CT1210	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 11 OF 34	
CT1211	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 12 OF 34	
CT2201	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - IDAHO AVE	SHEET 13 OF 34	
CT2202	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - IDAHO AVE	SHEET 14 OF 34	
CT2203	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - JACKSON AVE	SHEET 15 OF 34	
CT2204	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - JACKSON AVE	SHEET 16 OF 34	
CT2205	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (JERSEY AVE)	SHEET 17 OF 34	
CT2206	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - KENT AVE	SHEET 18 OF 34	
CT2207	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - KENT AVE	SHEET 19 OF 34	
CT2208	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - KANSAS AVE	SHEET 20 OF 34	
CT2209	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - KANSAS AVE	SHEET 21 OF 34	
CT2210	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - NEVADA AVE	SHEET 22 OF 34	
CT2211	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - NEVADA AVE	SHEET 23 OF 34	
CR1201	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE OFF RAMP	SHEET 24 OF 34	
CR1202	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 25 OF 34	
CR1203	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 26 OF 34	
CR1204	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 27 OF 34	
CR1205	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 28 OF 34	
CR2201	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE & SUPERELEVATION DIAGRAM SANTA FE AVE OFF RAMP	SHEET 29 OF 34	
CR2202	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE & SUPERELEVATION DIAGRAM - ORANGE AVE	SHEET 30 OF 34	
CR2203	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE & SUPERELEVATION DIAGRAM - SANTA FE AVE	SHEET 31 OF 34	
CR2204	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE & SUPERELEVATION DIAGRAM - SANTA FE AVE	SHEET 32 OF 34	
CT3040	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 33 OF 34	
CT3041	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 34 OF 34	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
06/30/11

**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 3 OF 8

CONTRACT NO.
HSR 06-0003
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CB1005
 SCALE
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 SHEET NO.
6 OF 13

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GRADE SEPARATION PLANS - ALIGNMENT C2

ALIGNMENT C2 - CONT'D

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0070	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 42	
CT1230	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 2 OF 42	
CT1231	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 3 OF 42	
CT1232	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 4 OF 42	
CT1233	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 5 OF 42	
CT1234	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (JERSEY AVE)	SHEET 6 OF 42	
CT1235	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 7 OF 42	
CT1236	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 8 OF 42	
CT1237	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 9 OF 42	
CT1238	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 10 OF 42	
CT1239	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 11 OF 42	
CT1240	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 12 OF 42	
CT1241	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (CORCORAN)	SHEET 13 OF 42	
CT1242	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (CORCORAN)	SHEET 14 OF 42	
CT1243	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (CORCORAN)	SHEET 15 OF 42	
CT1244	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - CORCORAN HWY	SHEET 16 OF 42	1
CT1245	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - 5 1/2 AVE	SHEET 17 OF 42	
CT1246	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - 5 1/2 AVE	SHEET 18 OF 42	
CT1248	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT WHITLEY AVE/STATE ROUTE 137	SHEET 19 OF 42	
CT2230	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM IDAHO AVE	SHEET 20 OF 42	
CT2231	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM IDAHO AVE	SHEET 21 OF 42	
CT2232	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM JACKSON AVE	SHEET 22 OF 42	
CT2233	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM JACKSON AVE	SHEET 23 OF 42	
CT2234	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (JERSEY AVE)	SHEET 24 OF 42	
CT2235	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KENT AVE	SHEET 25 OF 42	
CT2236	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KENT AVE	SHEET 26 OF 42	
CT2237	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KANSAS AVE	SHEET 27 OF 42	
CT2238	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KANSAS AVE	SHEET 28 OF 42	

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CT2239	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM NEVADA AVE	SHEET 29 OF 42	
CT2240	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM NEVADA AVE	SHEET 30 OF 42	
CT2241	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (CORCORAN)	SHEET 31 OF 42	
CT2242	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (CORCORAN)	SHEET 32 OF 42	
CT2243	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (CORCORAN)	SHEET 33 OF 42	
CT2244	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM CORCORAN HWY	SHEET 34 OF 42	1
CT2245	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM 5 1/2 AVE	SHEET 35 OF 42	
CT2246	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM 5 1/2 AVE	SHEET 36 OF 42	
CT2247	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM 5 1/2 AVE	SHEET 37 OF 42	
CT2248	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM WHITLEY AVE/STATE ROUTE 137	SHEET 38 OF 42	
CR1230	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY LAYOUT - NILES AVE	SHEET 39 OF 42	
CR2230	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY PROFILE & SUPERELEVATION DIAGRAM NILES AVE	SHEET 40 OF 42	
CT3042	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 41 OF 42	
CT3043	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 42 OF 42	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
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J. MONG
 IN CHARGE
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 DATE
06/30/11

**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 4 OF 8

CONTRACT NO.
HSR 06-0003
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 SCALE
NO SCALE
 SHEET NO.
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GRADE SEPARATION PLANS - ALIGNMENT C3

ALIGNMENT C3 - CONT'D

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DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0080	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 71	
CT1260	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 2 OF 71	
CT1261	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 3 OF 71	
CT1262	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 4 OF 71	
CT1263	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 5 OF 71	
CT1264	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (JERSEY AVE)	SHEET 6 OF 71	
CT1265	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 7 OF 71	
CT1266	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 8 OF 71	
CT1267	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 9 OF 71	
CT1268	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 10 OF 71	
CT1269	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 11 OF 71	
CT1270	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 12 OF 71	
CT1271	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - CHARLES ST	SHEET 13 OF 71	
CT1272	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - CHARLES ST	SHEET 14 OF 71	
CT1273	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - PATTERSON AVE	SHEET 15 OF 71	
CT1274	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - OTIS AVE	SHEET 16 OF 71	
CT1275	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - OTIS AVE	SHEET 17 OF 71	
CT1277	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - WHITLEY AVE & BOSWELL PRIVATE RD	SHEET 18 OF 71	
CT1280	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 19 OF 71	
CT1281	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 20 OF 71	
CT1282	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 21 OF 71	
CT1283	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 22 OF 71	
CT1284	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 23 OF 71	
CT1294	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - AVENUE 148	SHEET 24 OF 71	
CT1295	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - AVENUE 148 & ROAD 24	SHEET 25 OF 71	
CT1296	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - ROAD 24	SHEET 26 OF 71	
CT2260	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - IDAHO AVE	SHEET 27 OF 71	
CT2261	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - IDAHO AVE	SHEET 28 OF 71	
CT2262	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - JACKSON AVE	SHEET 29 OF 71	
CT2263	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - JACKSON AVE	SHEET 30 OF 71	
CT2264	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 (JERSEY AVE)	SHEET 31 OF 71	
CT2265	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - KENT AVE	SHEET 32 OF 71	
CT2266	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - KENT AVE	SHEET 33 OF 71	
CT2267	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - KANSAS AVE	SHEET 34 OF 71	
CT2268	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - KANSAS AVE	SHEET 35 OF 71	
CT2269	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - NEVADA AVE	SHEET 36 OF 71	
CT2270	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - NEVADA AVE	SHEET 37 OF 71	
CT2271	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - CHARLES ST	SHEET 38 OF 71	
CT2272	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - CHARLES ST	SHEET 39 OF 71	
CT2273	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - SANTA FE AVE	SHEET 40 OF 71	
CT2274	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - PATTERSON AVE	SHEET 41 OF 71	
CT2275	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - YODER BLVD	SHEET 42 OF 71	

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DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CT2276	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - OTIS AVE	SHEET 43 OF 71	
CT2277	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - OTIS AVE	SHEET 44 OF 71	
CT2278	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - OTIS AVE	SHEET 45 OF 71	
CT2279	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM CONNECTIONS TO OTIS AVE	SHEET 46 OF 71	
CT2280	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - LETTS AVE	SHEET 47 OF 71	
CT2281	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - WHITLEY AVE	SHEET 48 OF 71	
CT2282	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - WHITLEY AVE	SHEET 49 OF 71	
CT2283	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM BOSWELL PRIVATE RD	SHEET 50 OF 71	
CT2284	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (SB)	SHEET 51 OF 71	
CT2285	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (SB)	SHEET 52 OF 71	
CT2286	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (SB)	SHEET 53 OF 71	
CT2287	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (SB)	SHEET 54 OF 71	
CT2288	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (SB)	SHEET 55 OF 71	
CT2289	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (NB)	SHEET 56 OF 71	
CT2290	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (NB)	SHEET 57 OF 71	1
CT2291	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (NB)	SHEET 58 OF 71	
CT2292	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (NB)	SHEET 59 OF 71	
CT2293	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 & MAINLINE (NB)	SHEET 60 OF 71	
CT2294	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 SB OFF RAMP	SHEET 61 OF 71	
CT2295	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 SB ON RAMP	SHEET 62 OF 71	
CT2296	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 NB OFF RAMP	SHEET 63 OF 71	
CT2297	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 NB ON RAMP	SHEET 64 OF 71	
CT2298	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 148	SHEET 65 OF 71	
CT2299	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 148	SHEET 66 OF 71	
CT2300	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - RD 24	SHEET 67 OF 71	
CT2301	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - RD 24	SHEET 68 OF 71	
CT3044	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 69 OF 71	
CT3045	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 70 OF 71	
CT3046	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 71 OF 71	

REFER TO ROADWAY PLANS - PART 2 OF 2

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
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 DATE
06/30/11

**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 8

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB1007
 SCALE
NO SCALE
 SHEET NO.
8 OF 13

GRADE SEPARATION PLANS - ALIGNMENT P

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0100	PIXLEY SUBSECTION - ALIGNMENT P - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 16	2
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 SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 128	SHEET 6 OF 16	
CT2402	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 128	SHEET 7 OF 16	
CT2411	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - HESSE AVE	SHEET 8 OF 16	
CT2412	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - HESSE AVE	SHEET 9 OF 16	
CT2421	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 112	SHEET 10 OF 16	
CT2422	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 112	SHEET 11 OF 16	
CT2423	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 112 CONNECTOR	SHEET 12 OF 16	
CT2431	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 88	SHEET 13 OF 16	
CT2432	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 88	SHEET 14 OF 16	
CT2433	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 88 CONNECTOR	SHEET 15 OF 16	
CT3060	PIXLEY SUBSECTION - ALIGNMENT P - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 16 OF 16	

GRADE SEPARATION PLANS - ALIGNMENT A1

DRG 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 SEP PROFILE & SUPERELEVATION DIAGRAM COUNTY RD J22	SHEET 10 OF 20	
CT2511	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM GARCES HWY	SHEET 11 OF 20	
CT2512	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM SCOFIELD AVE	SHEET 12 OF 20	
CT2513	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM SCOFIELD AVE	SHEET 13 OF 20	
CT2514	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM SCOFIELD AVE	SHEET 14 OF 20	
CT2521	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM POND RD	SHEET 15 OF 20	

ALIGNMENT A1 - CONT'D

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CT2522	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM POND RD	SHEET 16 OF 20	2
CT2523	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM MAGNOLIA AVE	SHEET 17 OF 20	
CT2524	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM MAGNOLIA AVE	SHEET 18 OF 20	
CT2531	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM PETERSON RD	SHEET 19 OF 20	
CT3070	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 20 OF 20	

GRADE SEPARATION PLANS - ALIGNMENT A2

DRG 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 - AVENUE 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 SEP PROFILE & SUPERELEVATION DIAGRAM PETERSON RD	SHEET 7 OF 18	
CT2601	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM COUNTY RD J22	SHEET 8 OF 18	
CT2602	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM COUNTY RD J22	SHEET 9 OF 18	
CT2611	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM AVE 24	SHEET 10 OF 18	
CT2612	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM AVE 24	SHEET 11 OF 18	
CT2621	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM GARCES HWY	SHEET 12 OF 18	
CT2622	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM GARCES HWY	SHEET 13 OF 18	
CT2631	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM SCHUSTER RD	SHEET 14 OF 18	
CT2632	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM SCHUSTER RD	SHEET 15 OF 18	
CT2641	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM PETERSON RD	SHEET 16 OF 18	
CT2642	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM PETERSON RD	SHEET 17 OF 18	
CT3080	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 18 OF 18	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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DRAWN BY
E. SUDHAUSEN
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DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 6 OF 8

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1008
SCALE
NO SCALE
SHEET NO.
9 OF 13

GRADE SEPARATION PLANS - ALIGNMENT L2

DRG 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 SEP PROFILE & SUPERELEVATION DIAGRAM - ROOT AVENUE	SHEET 6 OF 7	
CT3100	POSO CREEK SUBSECTION - ALIGNMENT L2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 7 OF 7	

GRADE SEPARATION PLANS - ALIGNMENT L4

DRG 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 SEP PROFILE & SUPERELEVATION DIAGRAM - ROOT AVENUE	SHEET 6 OF 7	
CT3120	POSO CREEK SUBSECTION - ALIGNMENT L4 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 7 OF 7	

GRADE SEPARATION PLANS - ALIGNMENT WS1

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0170	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 35	2
CT1900	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - MCCOMBS AVE	SHEET 2 OF 35	
CT1901	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - KIMBERLINA RD	SHEET 3 OF 35	
CT1911	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - MERCED AVE	SHEET 4 OF 35	
CT1912	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - POPLAR AVE	SHEET 5 OF 35	
CT1913	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - FRESNO AVE	SHEET 6 OF 35	
CT1914	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - BURBANK ST	SHEET 7 OF 35	
CT1921	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - KRATZMEYER RD	SHEET 8 OF 35	
CT1923	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - REINA RD	SHEET 9 OF 35	
CT2899	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM MCCOMBS AVE	SHEET 10 OF 35	
CT2900	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM MCCOMBS AVE	SHEET 11 OF 35	
CT2901	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KIMBERLINA RD	SHEET 12 OF 35	
CT2911	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM MERCED AVE	SHEET 13 OF 35	
CT2912	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM MERCED AVE	SHEET 14 OF 35	

ALIGNMENT WS1 - CONT'D

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CT2913	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM POPLAR AVE	SHEET 15 OF 35	2
CT2914	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM POPLAR FRONTAGE RD	SHEET 16 OF 35	
CT2915	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM FRESNO AVE	SHEET 17 OF 35	
CT2916	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM FRESNO AVE	SHEET 18 OF 35	
CT2917	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM BURBANK ST	SHEET 19 OF 35	
CT2918	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM BURBANK ST	SHEET 20 OF 35	
CT2919	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM BURBANK ST WEST	SHEET 21 OF 35	
CT2921	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KRATZMEYER RD	SHEET 22 OF 35	
CT2923	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KRATZMEYER FRONTAGE RD	SHEET 23 OF 35	
CT2924	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM REINA RD	SHEET 24 OF 35	
CT2925	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM REINA FRONTAGE RD	SHEET 25 OF 35	
CR1980	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 26 OF 35	
CR1981	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 27 OF 35	
CR1982	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 28 OF 35	
CR2990	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 29 OF 35	
CR2991	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 30 OF 35	
CR2992	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 31 OF 35	
CR2993	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY & SUPERELEVATION DIAGRAM SANTA FE WAY	SHEET 32 OF 35	
CR2994	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY & SUPERELEVATION DIAGRAM SANTA FE WAY	SHEET 33 OF 35	
CT3130	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 34 OF 35	
CT3131	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 35 OF 35	

GRADE SEPARATION PLANS - ALIGNMENT WS2

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0180	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 44	2
CT1931	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KIMBERLINA ROAD	SHEET 2 OF 44	
CT1932	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT KIMBERLINA RD & POPLAR AVE	SHEET 3 OF 44	
CT1933	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - POPLAR AVE	SHEET 4 OF 44	
CT1941	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - SHAFTER AVE	SHEET 5 OF 44	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
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J. MONG
 IN CHARGE
A. LUFT
 DATE
06/30/11

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 ROADWAY & GRADE SEPARATION
 INDEX OF SHEETS
 SHEET 7 OF 8

CONTRACT NO.
HSR 06-0003
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 SHEET NO.
10 OF 13

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ALIGNMENT WS2 - CONT'D

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CT1942	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - SHAFTER AVE	SHEET 6 OF 44	2
CT1951	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - BEECH AVE	SHEET 7 OF 44	
CT1952	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT BEECH AVE & FRESNO AVE	SHEET 8 OF 44	
CT1961	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - EAST LERDO HWY	SHEET 9 OF 44	
CT1962	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT EAST LERDO HWY & CHERRY AVE	SHEET 10 OF 44	
CT1963	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT CHERRY AVE & RIVERSIDE ST	SHEET 11 OF 44	
CT1964	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT CHERRY AVE & RIVERSIDE ST	SHEET 12 OF 44	
CT1971	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KRATZMEYER RD	SHEET 13 OF 44	
CT1973	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - REINA RD	SHEET 14 OF 44	
CT2931	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KIMBERLINA RD	SHEET 15 OF 44	
CT2932	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KIMBERLINA RD	SHEET 16 OF 44	
CT2933	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM POPLAR AVE	SHEET 17 OF 44	
CT2934	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM POPLAR AVE	SHEET 18 OF 44	
CT2935	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM POPLAR AVE	SHEET 19 OF 44	
CT2941	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM SHAFTER AVE	SHEET 20 OF 44	
CT2942	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM SHAFTER AVE	SHEET 21 OF 44	
CT2951	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM BEECH AVE	SHEET 22 OF 44	
CT2952	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM BEECH AVE	SHEET 23 OF 44	
CT2953	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM FRESNO AVE	SHEET 24 OF 44	
CT2961	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM EAST LERDO HWY	SHEET 25 OF 44	
CT2962	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM EAST LERDO HWY	SHEET 26 OF 44	
CT2963	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM CHERRY AVE	SHEET 27 OF 44	
CT2964	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM CHERRY AVE	SHEET 28 OF 44	
CT2965	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM RIVERSIDE ST	SHEET 29 OF 44	
CT2966	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM RIVERSIDE ST	SHEET 30 OF 44	
CT2967	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM RIVERSIDE ST	SHEET 31 OF 44	

ALIGNMENT WS2 - CONT'D

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CT2971	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KRATZMEYER RD	SHEET 32 OF 44	2
CT2973	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM KRATZMEYER FRONTAGE RD	SHEET 33 OF 44	
CT2974	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM REINA RD	SHEET 34 OF 44	
CT2975	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM REINA FRONTAGE RD	SHEET 35 OF 44	
CR1985	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 36 OF 44	
CR1986	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 37 OF 44	
CR2995	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 38 OF 44	
CR2996	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 39 OF 44	
CR2997	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY SUPERELEVATION DIAGRAM SANTA FE WAY	SHEET 40 OF 44	
CT3140	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 41 OF 44	
CT3141	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 42 OF 44	
CT3142	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 43 OF 44	
CT3143	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	SHEET 44 OF 44	

GRADE SEPARATION PLANS - ALIGNMENT B1

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0190	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 5	2
CT1980	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEPARATION LAYOUT ROSEDALE HWY/STATE ROUTE 58	SHEET 2 OF 5	
CT2980	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM ROSEDALE HWY/STATE ROUTE 58	SHEET 3 OF 5	
CR1401	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - N ST PEDESTRIAN BRIDGE	SHEET 4 OF 5	
CT3170	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 5 OF 5	

GRADE SEPARATION PLANS - ALIGNMENT B2

DRG NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0200	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 8	2
CT1981	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEPARATION LAYOUT ROSEDALE HWY/STATE ROUTE 58	SHEET 2 OF 8	
CT2981	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM ROSEDALE HWY/STATE ROUTE 58	SHEET 3 OF 8	
CR1501	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - N ST PEDESTRIAN BRIDGE	SHEET 4 OF 8	
CR1511	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - E CALIFORNIA AVE	SHEET 5 OF 8	
CR2511	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE & SUPERELEVATION DIAGRAM E CALIFORNIA AVE	SHEET 6 OF 8	
CT3160	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 7 OF 8	
CT3180	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 8 OF 8	

NOT INCLUDED IN THIS PACKAGE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
A. LUFT
DATE
06/30/11

**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 8 OF 8

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1010
SCALE
NO SCALE
SHEET NO.
11 OF 13

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A

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

B

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

C

CAA CABLE ANCHOR ASSEMBLY
CAP CORRUGATED ALUMINUM PIPE
CAPA CORRUGATED ALUMINUM PIPE ARCH
CAS CONSTRUCTION AREA SIGN
CB CONCRETE BARRIER
CBW CONCRETE BLOCK WALL
C-C CENTER TO CENTER
CHSRA CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST CALIFORNIA HIGH SPEED TRAIN
CHSR CALIFORNIA HIGH SPEED RAIL

C CONTINUED

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

D

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

E

E EAST
EA ACTUAL SUPERELEVATION
EU UNBALANCED SUPERELEVATION
EASE EASEMENT
EB END OF BRIDGE, EASTBOUND
EC END HORIZONTAL CURVE
ECR END CURB RETURN
ED EDGE DRAIN

E CONTINUED

EDC EDGE DRAIN CLEANOUT
EDO EDGE DRAIN OUTLET
EDV EDGE DRAIN VENT
ELEC ELECTROLIER
ELECT ELECTRIC
ELEV ELEVATION
EMB EMBANKMENT
ENGR ENGINEER
EOD EDGE OF DECK
EP EDGE OF PAVEMENT
EO EQUATION
ES EDGE OF SHOULDER
ETW EDGE OF TRAVELED WAY
EVC END VERTICAL CURVE
EW ENDWALL
EXC EXCAVATION
EXIST, EX. EXISTING
EXP EXPANSION, EXPRESSWAY
EXP JT EXPANSION JOINT
EXT EXTERIOR

F

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

G

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

H

H HEIGHT
H, HR HOUR
HD HORIZONTAL DRAIN
HDWL HEADWALL
HEX HD HEXAGONAL HEAD
HMA HOT MIXED ASPHALT
HORIZ HORIZONTAL
HP HINGE POINT, HORSEPOWER

H CONTINUED

HPS HIGH PERFORMANCE STEEL
HS HIGH STRENGTH
HST HIGH SPEED TRAIN
HSR HIGH SPEED RAIL
HW HEADWALL, HIGH WATER
HWM HIGH WATER MARK
HWY HIGHWAY

I

IB IMPORTED BORROW
ID INSIDE DIAMETER
IF INSIDE FACE
INT INTERIOR
INV INVERT
IRR IRRIGATION

J

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

K

K DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

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

M

MAINT MAINTENANCE
MAX MAXIMUM
MB METAL BEAM
MBB METAL BEAM BARRIER
MBGR METAL BEAM GUARD RAILING
MED MEDIAN
M-F MERCED TO FRESNO
MH MANHOLE
MIN MINIMUM
MISC MISCELLANEOUS
MISC I & S IRON AND STEEL
MKR MARKER
M/L MAIN LINE (RAILWAY)
MOD MODIFIED, MODIFY
MON MONUMENT
MP METAL PLATE
MPGR METAL PLATE GUARD RAILING
MPH MILES PER HOUR
MR MOVEMENT RATING
MSE MECHANICALLY STABILIZED EMBANKMENT
MTL MATERIAL
MSS MOVING SCAFFOLDING SYSTEM

N

N NORTH
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 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
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 PERFORMED PERMEABLE LINER
PPP PERFORATED PLASTIC PIPE
PRC POINT OF REVERSE CURVE
PRF PAVEMENT REINFORCING FABRIC
PRVC POINT OF REVERSE VERTICAL CURVE
PS&E PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S PRESTRESSED
PSP PERFORATED STEEL PIPE
PT POINT OF TANGENCY
PVC POLYVINYL CHLORIDE
PVMT PAVEMENT

Q

QTY QUANTITY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. SEYMOUR
 DRAWN BY
P. TONKIN
 CHECKED BY
D. HUNT
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

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

GENERAL
 ABBREVIATIONS AND LEGENDS
 SHEET 1 OF 2

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CB0009
 SCALE
NO SCALE
 SHEET NO.
12 OF 13

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R

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

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
SALV	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SPIRAL TO CURVE
SD	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SEC	SECOND, SECTION
SEP	SEPARATION
SG	SUBGRADE
SHLD	SHOULDER
SHT	SHEET
SIM	SIMILAR
S	STATION LINE
SM	SELECTED MATERIAL
SPEC	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE, SPIRAL TO SPIRAL
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
SR	STATE ROUTE
ST	STREET, SPIRAL TO TANGENT
STA	STATION
STBB	SINGLE THRIE BEAM BARRIER

S CONTINUED

STD	STANDARD
STR	STRUCTURE
SURF	SURFACING
SW	SIDEWALK, SOUND WALL
SWR	SEWER
SYM	SYMMETRICAL
S4S	SURFACE 4 SIDES
SJV RR	SAN JOAQUIN VALLEY RAILROAD

T

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

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD

V

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

W

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

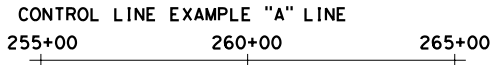
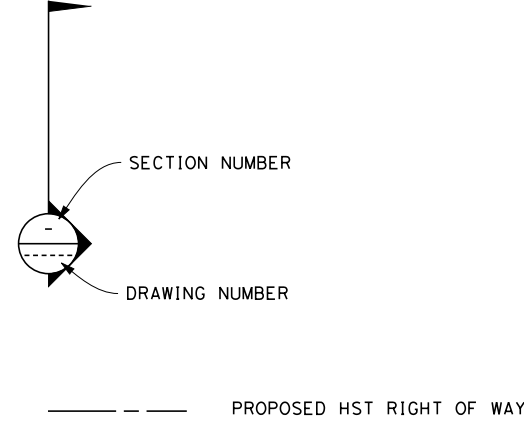
X

X SEC	CROSS SECTION
XING	CROSSING

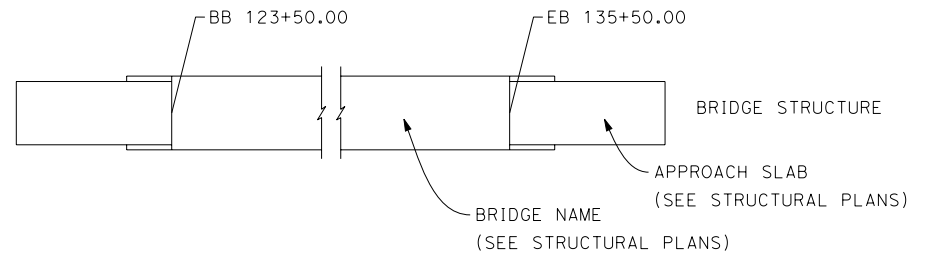
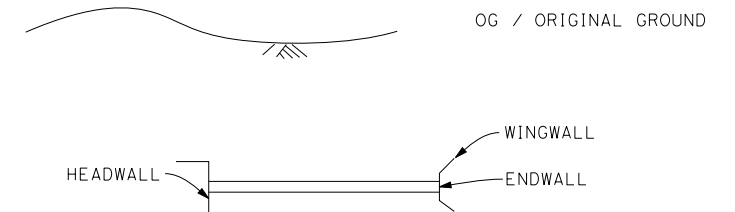
Y

YR	YEAR
YRS	YEARS

LEGEND



	OR	TRACK (PLAN AND ELEVATION)
		TRACK TO BE REMOVED AND RELOCATED PER BNSF
		REMOVE BASE & SURFACING
		DIRECTION OF FLOW
		WATER SURFACE
		CURVE DATA
		LINE DATA
		EXISTING OVERHEAD HIGH VOLTAGE POWER LINES
		EXISTING HIGH VOLTAGE TOWER FOOTPRINT



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	K. SEYMOUR
DRAWN BY	P. TONKIN
CHECKED BY	D. HUNT
IN CHARGE	A. LUFT
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

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CONSTRUCTION**



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

GENERAL
ABBREVIATIONS AND LEGENDS
SHEET 2 OF 2

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB0010
SCALE	NO SCALE
SHEET NO.	13 OF 13



5/12/2011 11:16:26 AM HSTFB_P_K01.dgn

**TULARE COUNTY
KINGS COUNTY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

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CONSTRUCTION**



**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

5/12/2011 11:17:41 AM HSTFB_P_A128_L01.dgn

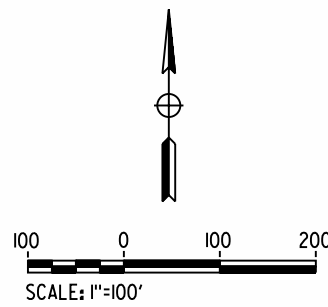


LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'34"E	442.10'
2	S47°11'57"E	200.00'
3	S89°41'50"E	1120.47'
4	S59°33'52"W	293.52'

CURVE DATA

NO.	R	Δ	T	L	V
①	700.00'	42°21'37"	271.23'	517.53'	45 MPH
②	700.00'	42°29'53"	272.20'	519.21'	45 MPH
③	425.00'	149°15'42"	1546.20'	1107.17'	35 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

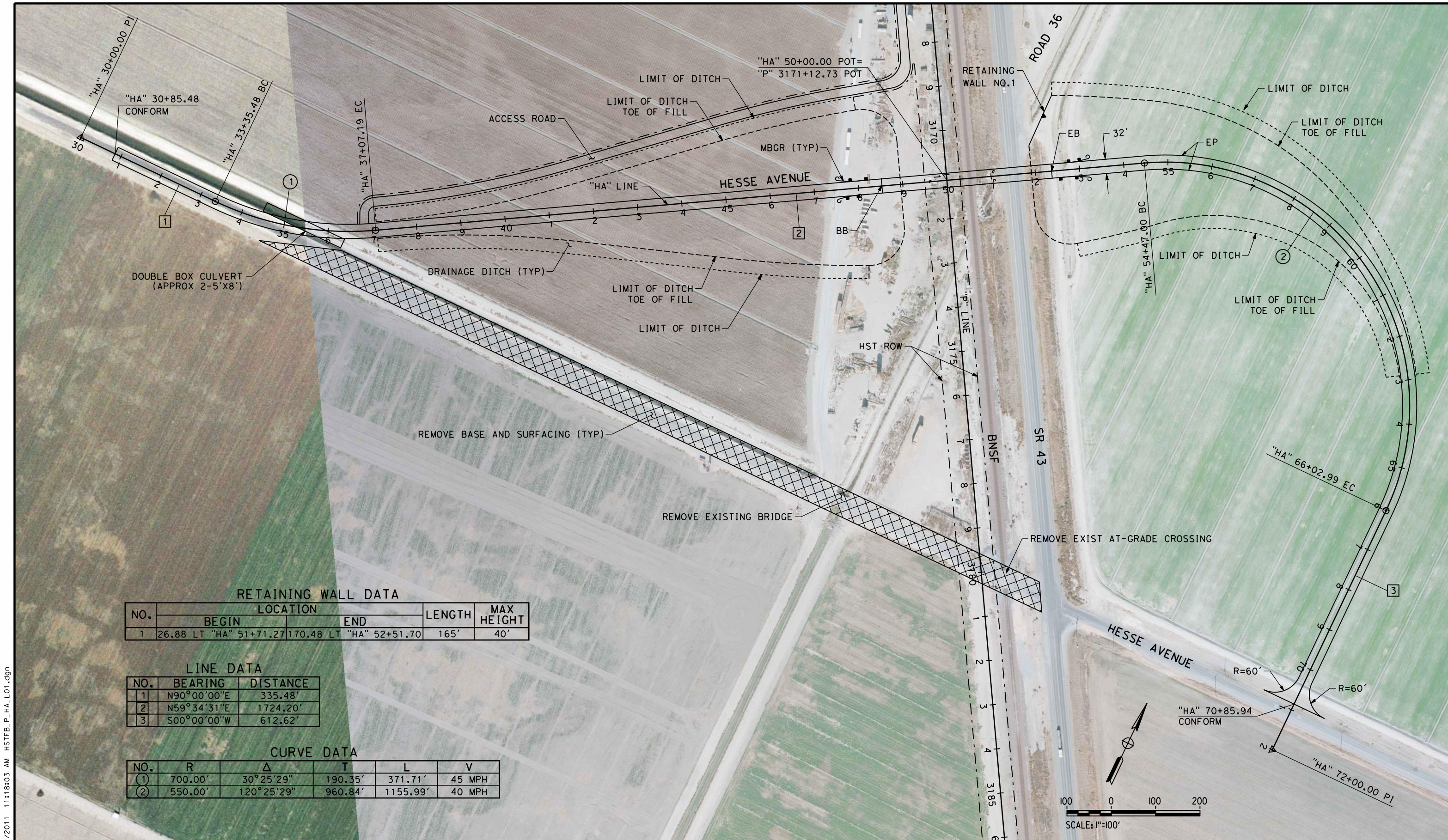
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DESIGN SUBMISSION**

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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

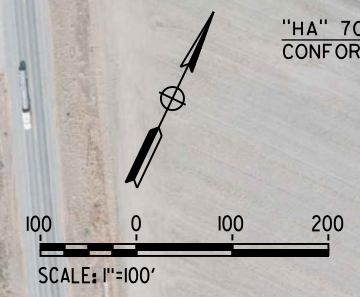
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	26.88 LT "HA" 51+71.27	170.48 LT "HA" 52+51.70	165'	40'

LINE DATA

NO.	BEARING	DISTANCE
1	N90°00'00"E	335.48'
2	N59°34'31"E	1724.20'
3	S00°00'00"W	612.62'

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



5/12/2011 11:18:03 AM HSTFB_P_HA_L01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
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CHECKED BY
J. LABANOWSKI
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G. HORTON
DATE
05/13/11

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
HESSA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1411
SCALE
AS SHOWN
SHEET NO.
3 OF 16

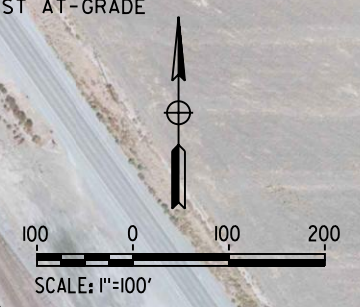
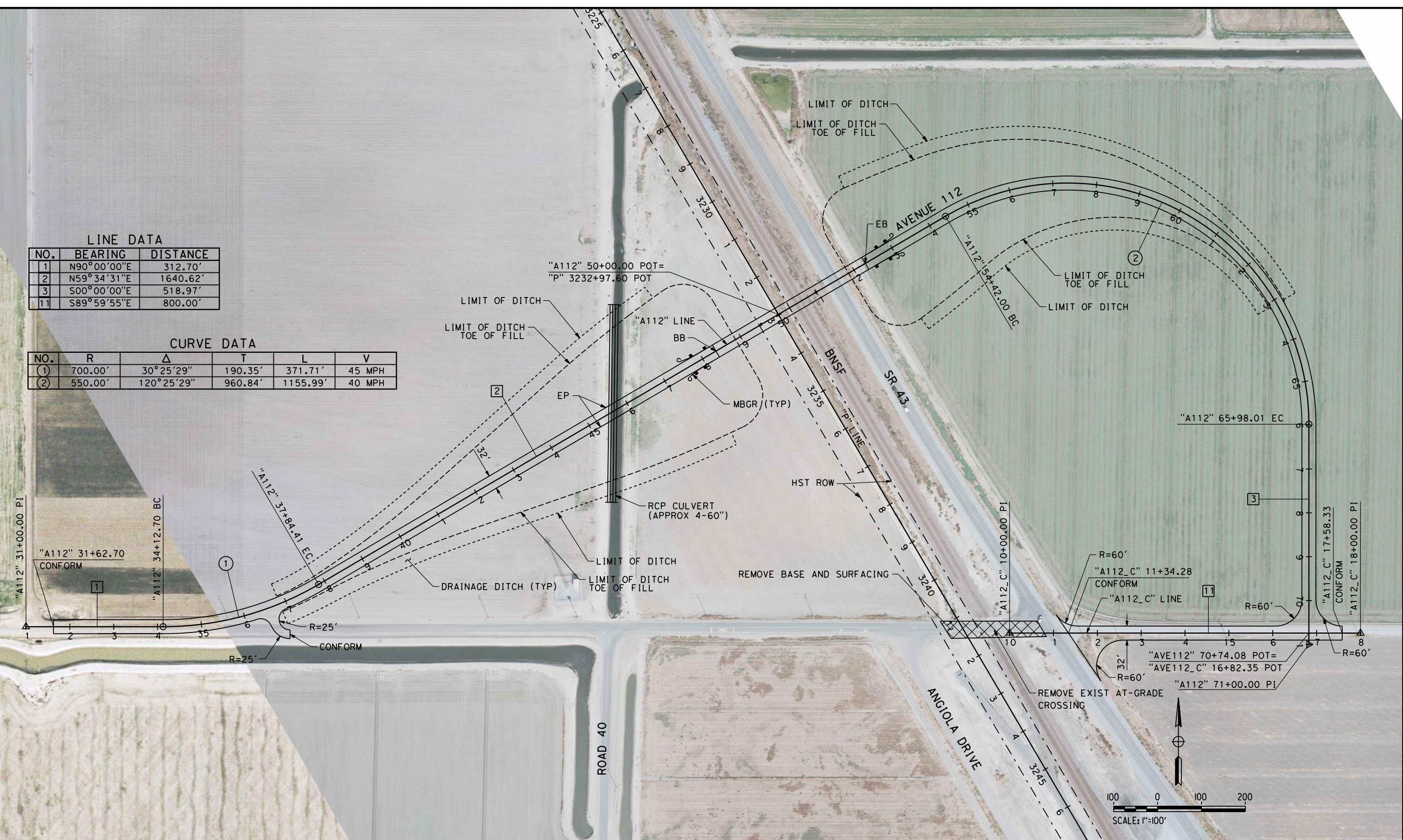
5/12/2011 11:18:21 AM HSTFB_P_A112_L01.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	N90°00'00"E	312.70'
2	N59°34'31"E	1640.62'
3	S00°00'00"E	518.97'
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°25'29"	960.84'	1155.99'	40 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

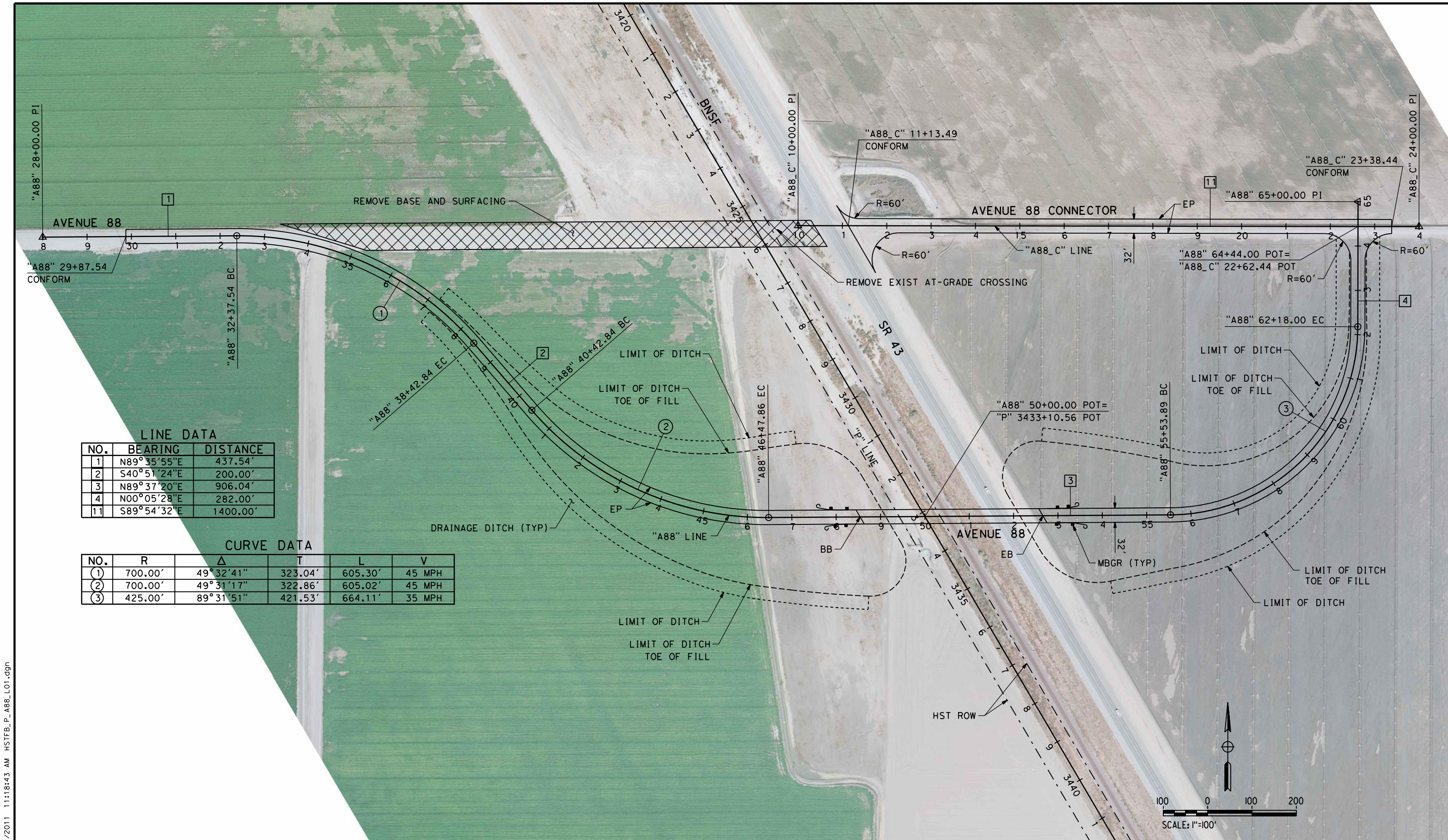
**RECORD SET 15%
DESIGN SUBMISSION**

**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



LINE DATA

NO.	BEARING	DISTANCE
1	N89°35'55"E	437.54'
2	S40°51'24"E	200.00'
3	N89°37'20"E	906.04'
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

5/12/2011 11:18:43 AM HSTFB_P_A88_LO1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

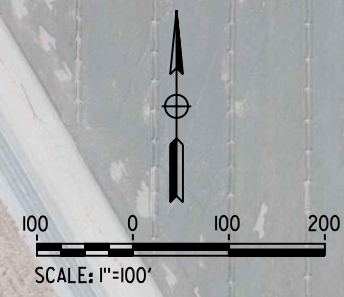
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



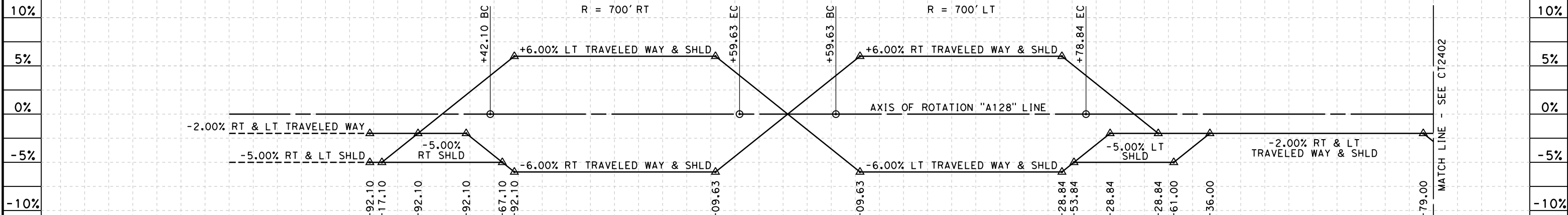
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
AVE 88

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1431
SCALE
AS SHOWN
SHEET NO.
5 OF 16

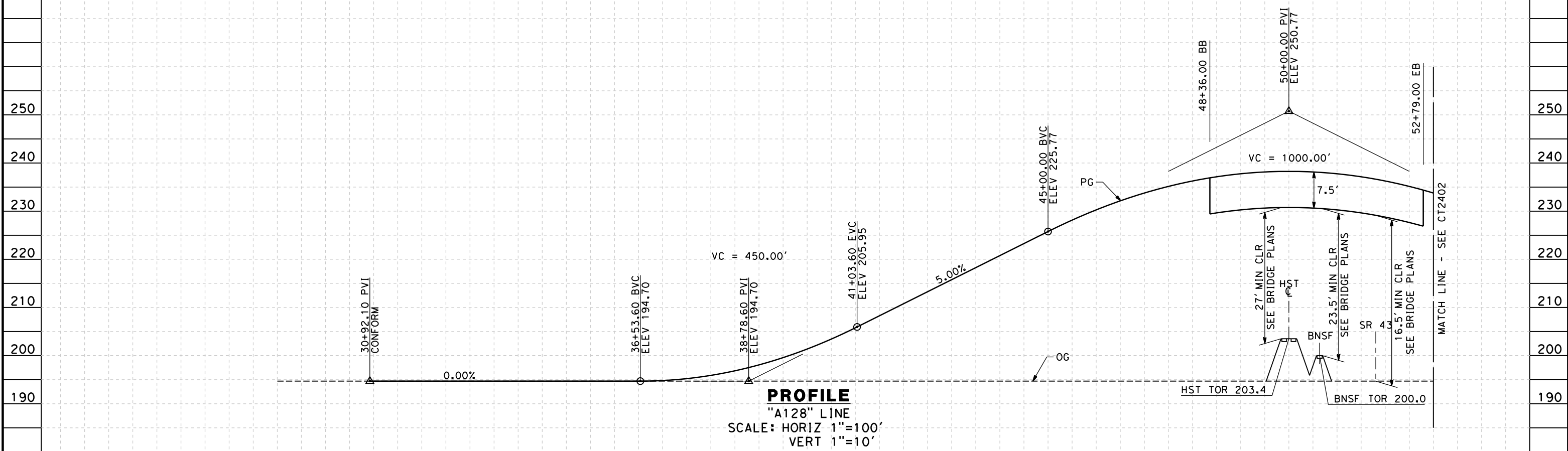


NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' 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



SUPERELEVATION DIAGRAM



PROFILE
"A128" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	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	3	TOTAL
Exc																												
Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

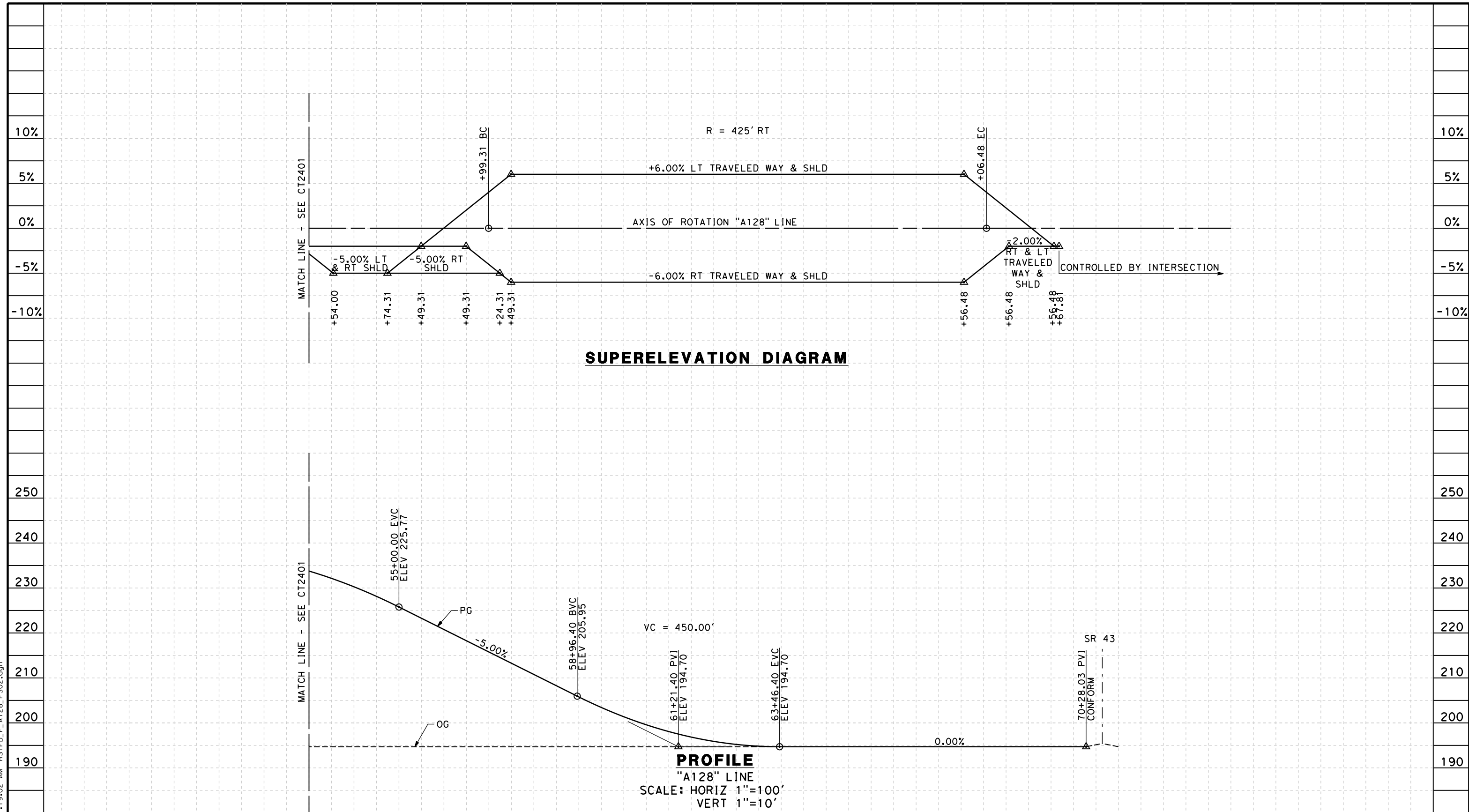


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 128

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2401
SCALE
AS SHOWN
SHEET NO.
6 OF 16

5/12/2011 11:18:57 AM HSTFB_P_A128_PS01.dgn

5/12/2011 11:19:02 AM HSTFB_P_A128_PS02.dgn



STATION	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	2	3	4	75	TOTAL
Exc																								
Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
C. ALLEN

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

PIXLEY SUBSECTION
ALIGNMENT P

GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 128

CONTRACT NO.
HSR 06-0003

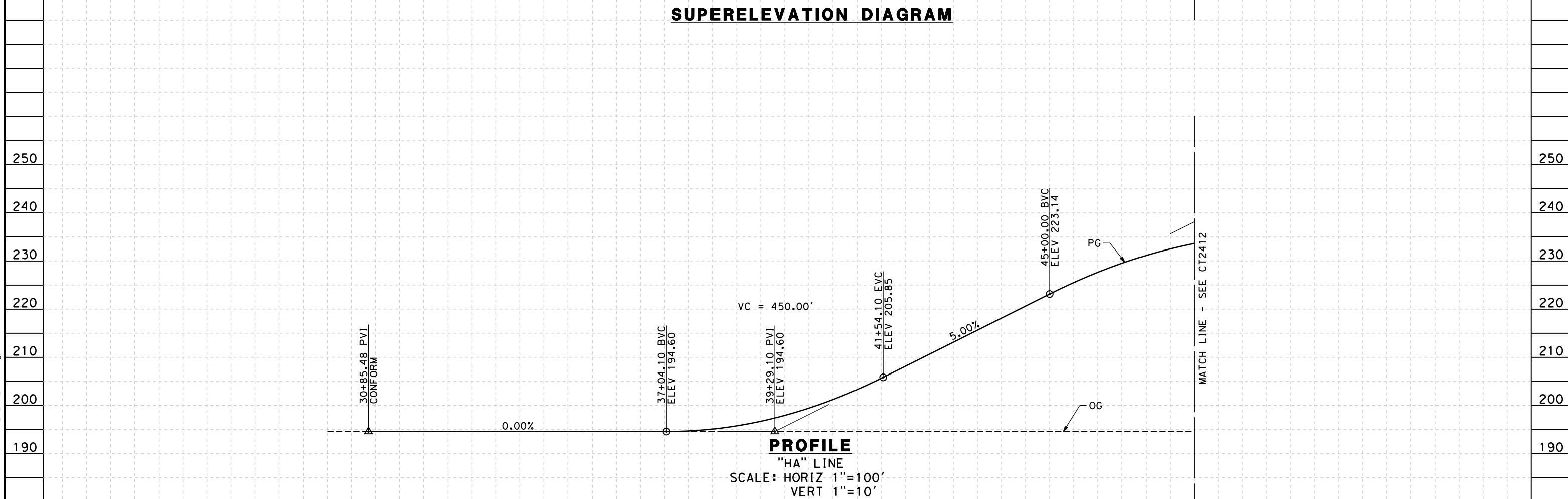
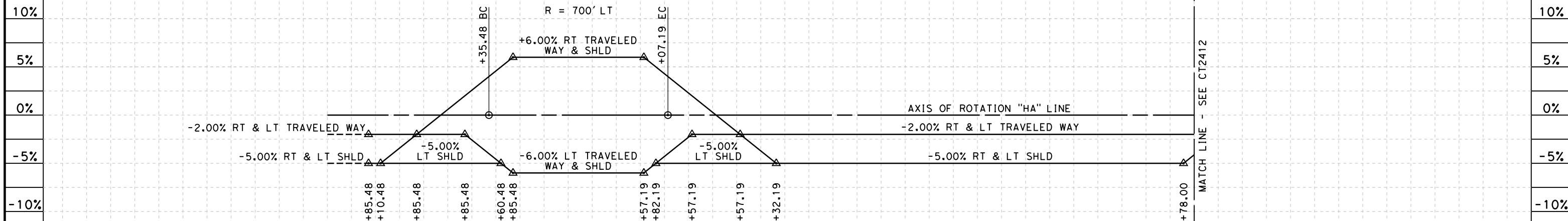
DRAWING NO.
CT2402

SCALE
AS SHOWN

SHEET NO.
7 OF 16

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' 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	
Exc																					
Emb																					

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
C. ALLEN

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
HESSE AVE

CONTRACT NO.
HSR 06-0003

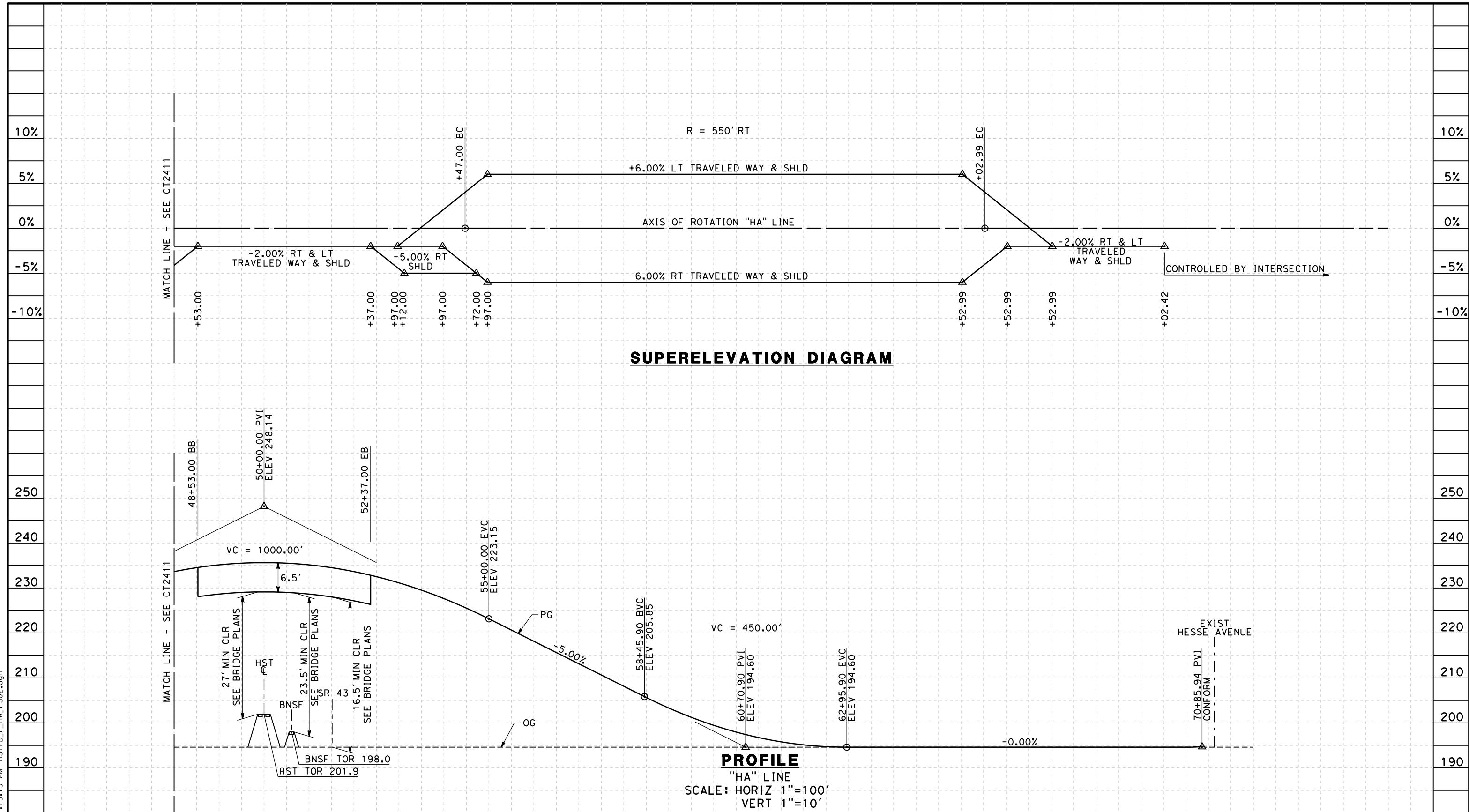
DRAWING NO.
CT2411

SCALE
AS SHOWN

SHEET NO.
8 OF 16

5/12/2011 11:19:07 AM HSTFB_P_HA_PS01.dgn

5/12/2011 11:19:13 AM HSTFB_P_HA_PS02.dgn



SUPERELEVATION DIAGRAM

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

STATION	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	TOTAL
Exc																									
Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
HESSE AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2412
SCALE
AS SHOWN
SHEET NO.
9 OF 16

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' 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

10%

5%

0%

-5%

-10%

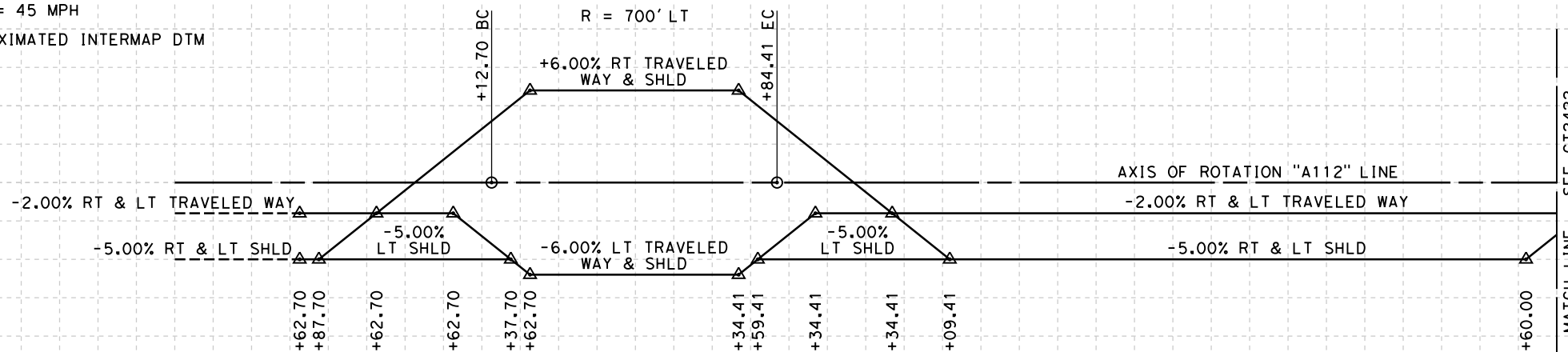
10%

5%

0%

-5%

-10%



250

240

230

220

210

200

190

250

240

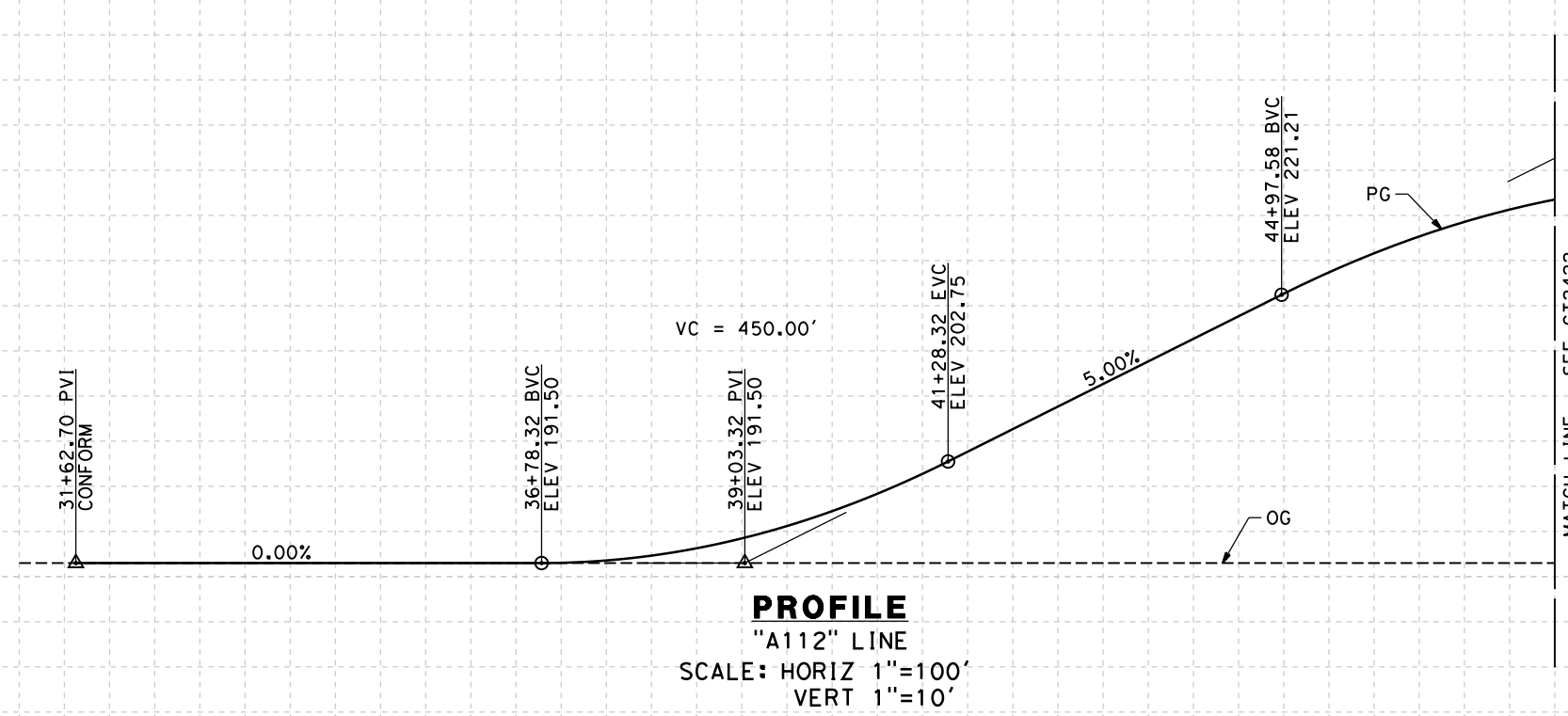
230

220

210

200

190



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
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



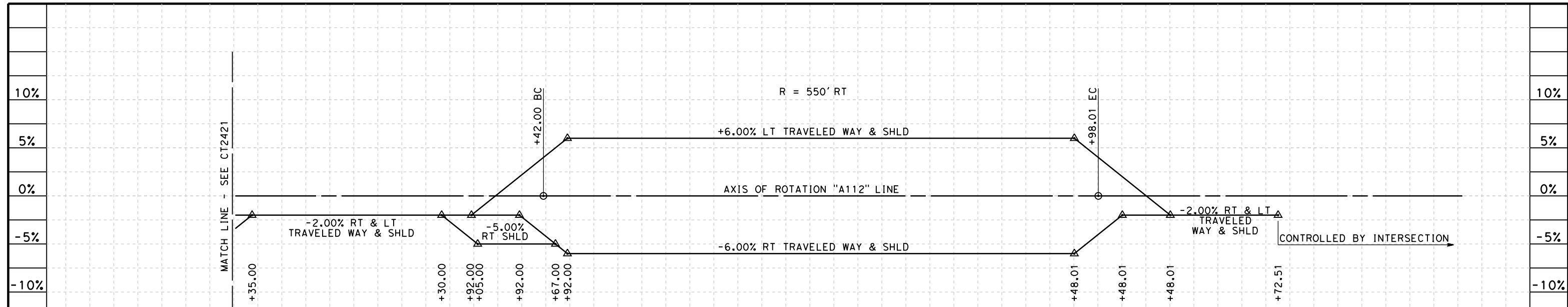
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 112

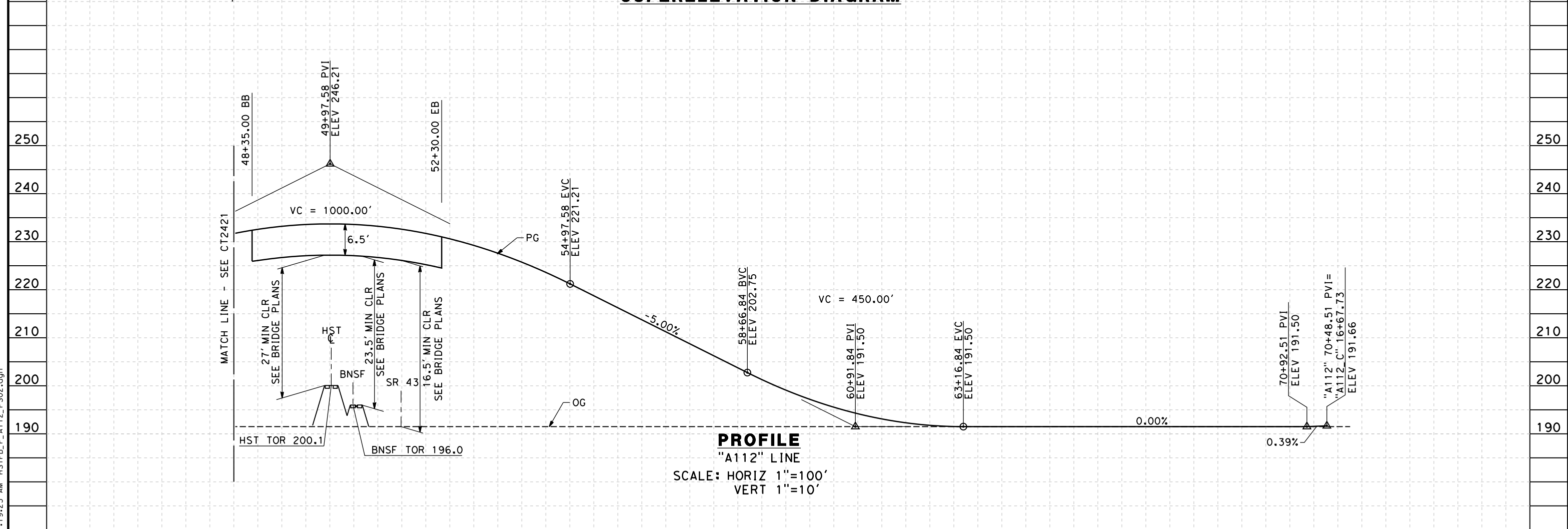
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2421
SCALE
AS SHOWN
SHEET NO.
10 OF 16

5/12/2011 11:19:18 AM HSTFB_P_A112_PS01.dgn

5/12/2011 11:19:23 AM HSTFB_P_A112_PS02.dgn



SUPERELEVATION DIAGRAM



PROFILE
"A112" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	TOTAL
Exc																									
Emb																									

DESIGNED BY	M. POLISCHUK
DRAWN BY	C. ALLEN
CHECKED BY	J. LABANOWSKI
IN CHARGE	G. HORTON
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 112

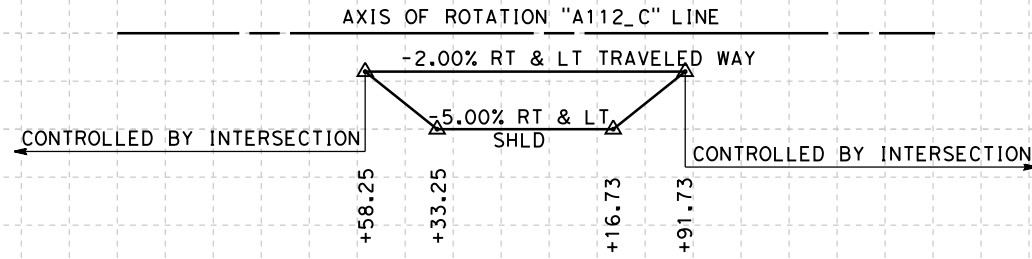
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2422
SCALE	AS SHOWN
SHEET NO.	11 OF 16

NOTES:

1. VERTICAL DESIGN SPEED = 55 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
3. SEE SHEET CT1421 FOR LAYOUT VIEW

10%
5%
0%
-5%
-10%

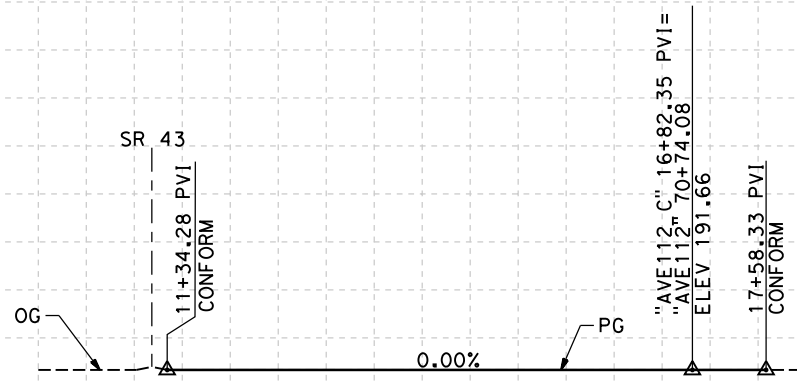
10%
5%
0%
-5%
-10%



SUPERELEVATION DIAGRAM

210
200
190

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
Exc										
Emb										

5/12/2011 11:19:28 AM HSTFB_P_A112_C_PS01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

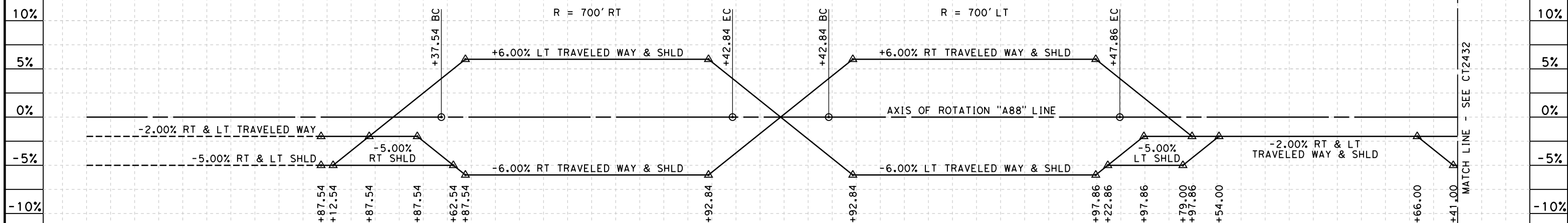


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 112 CONNECTOR

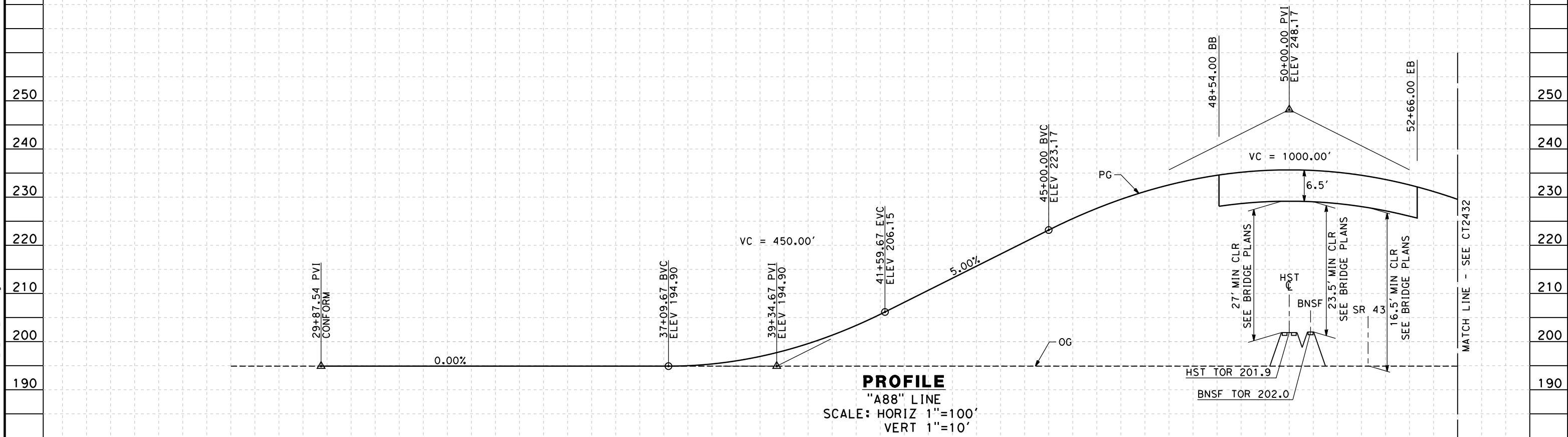
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2423
SCALE
AS SHOWN
SHEET NO.
12 OF 16

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' 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



SUPERELEVATION DIAGRAM



PROFILE

"A88" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	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	3	TOTAL
Exc																												
Emb																												

DESIGNED BY	M. POLISCHUK
DRAWN BY	C. ALLEN
CHECKED BY	J. LABANOWSKI
IN CHARGE	G. HORTON
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



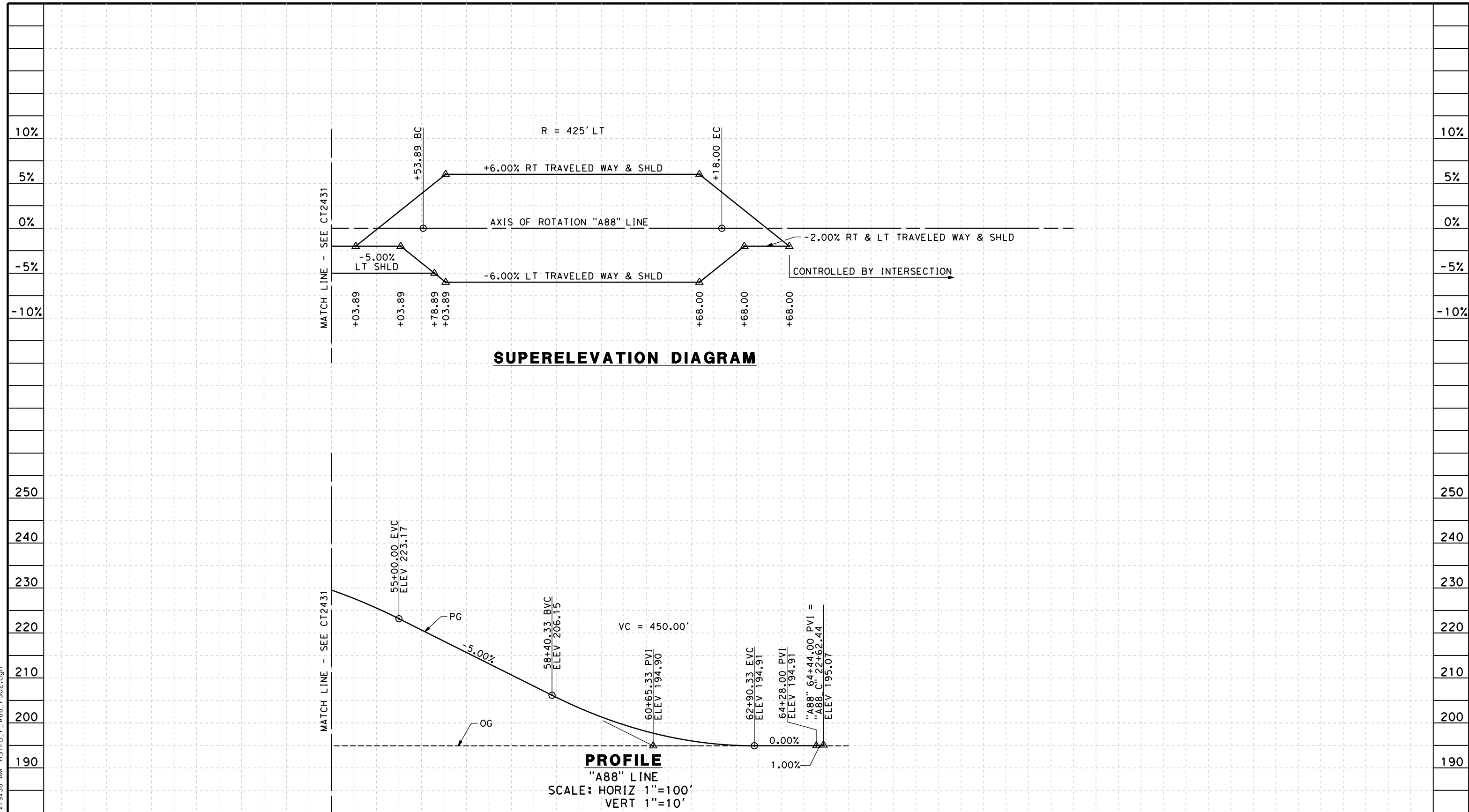
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 88

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2431
SCALE	AS SHOWN
SHEET NO.	13 OF 16

5/12/2011 11:19:33 AM HSTFB_P_A88_PS01.dgn

5/12/2011 11:19:38 AM HSTFB_P_A88_PS02.dgn



STATION	3	4	55	6	7	8	9	60	1	2	3	4	65	TOTAL
Exc														
Emb														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
C. ALLEN

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 88

CONTRACT NO.
HSR 06-0003

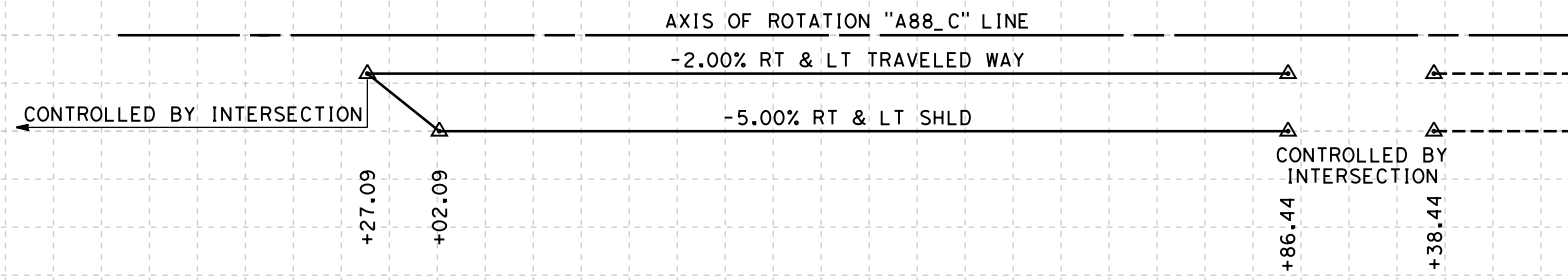
DRAWING NO.
CT2432

SCALE
AS SHOWN

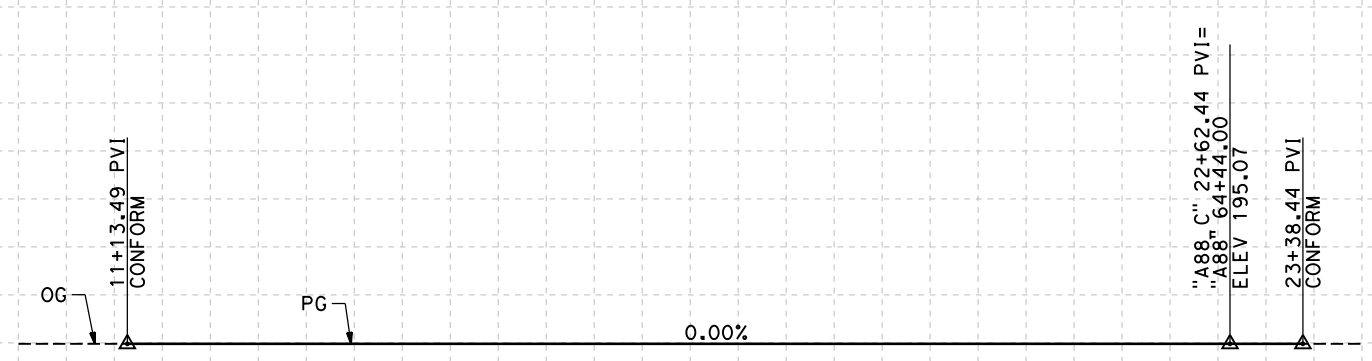
SHEET NO.
14 OF 16

NOTES:

1. VERTICAL DESIGN SPEED = 55 MPH
2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
3. SEE SHEET CT1431 FOR LAYOUT VIEW



SUPERELEVATION DIAGRAM



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
Exc																	
Emb																	

5/12/2011 11:19:44 AM HSTFB_P_A88_C_P501.dgn

DESIGNED BY	M. POLISCHUK
DRAWN BY	C. ALLEN
CHECKED BY	J. LABANOWSKI
IN CHARGE	G. HORTON
DATE	05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



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

PIXLEY SUBSECTION
 ALIGNMENT P
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 AVE 88 CONNECTOR

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2433
SCALE	AS SHOWN
SHEET NO.	15 OF 16

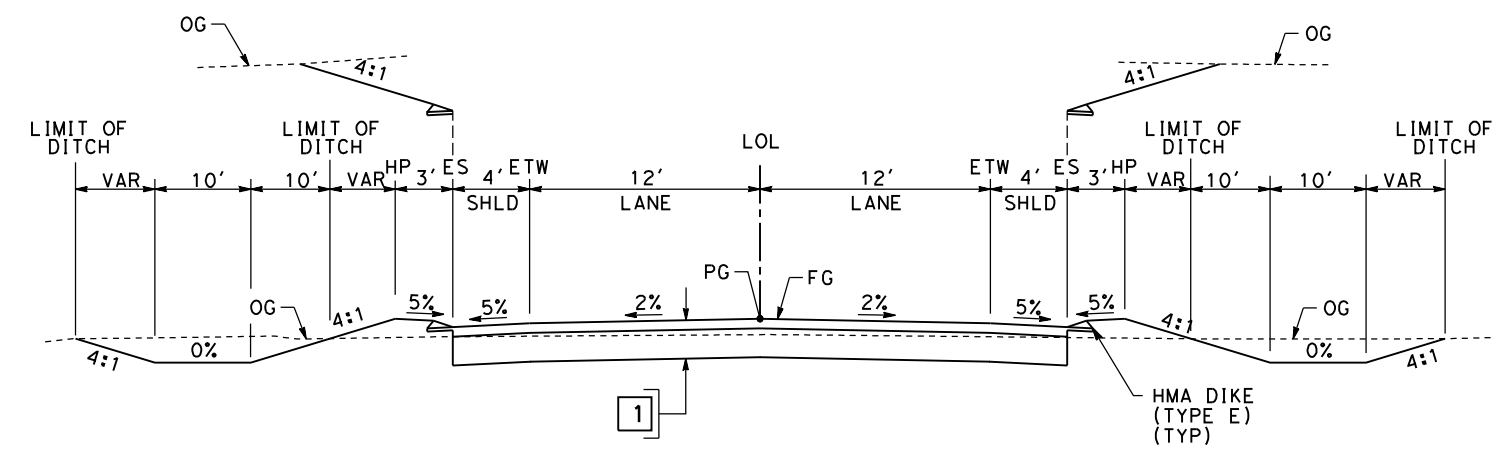
NOTES:

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

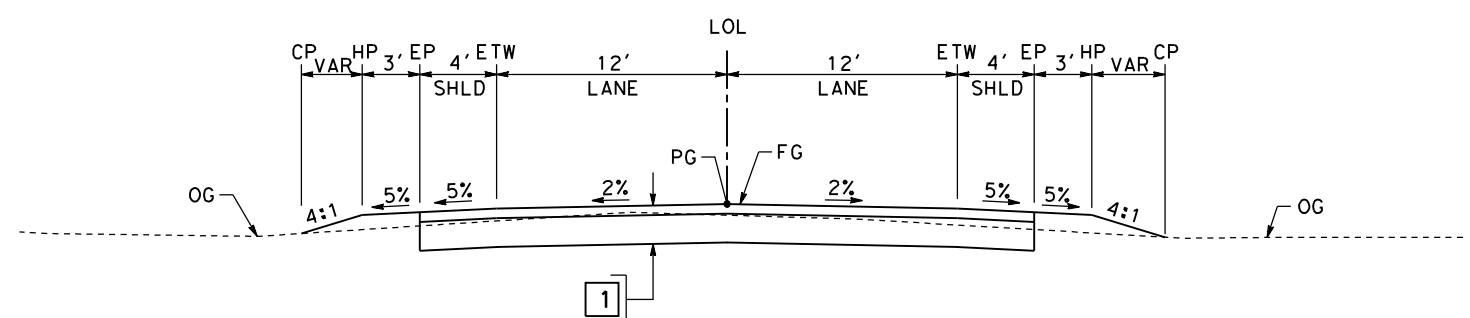
TYPICAL ROADWAY

- 1 0.30' HMA (TYPE A)
- 1.40' CL 2' AB



SECTION A

- "A128" 36+53.60 TO 48+36.00
- "A128" 52+79.00 TO 63+46.40
- "HA" 37+10.00 TO 48+53.00
- "HA" 52+37.00 TO 62+95.00
- "A112" 36+85.00 TO 48+35.00
- "A112" 52+30.00 TO 63+15.00
- "A88" 37+20.00 TO 48+54.00
- "A88" 52+66.00 TO 64+21.61



SECTION B

- "A128" 30+92.10 TO 36+53.60
- "A128" 63+46.40 TO 70+28.03
- "HA" 30+85.48 TO 37+10.00
- "HA" 62+95.00 TO 70+85.94
- "A112" 31+62.70 TO 36+85.00
- "A112" 63+15.00 TO 70+74.08
- "A112_C" 11+34.28 TO 17+58.33
- "A88" 29+87.54 TO 37+20.00
- "A88" 64+21.61 TO 64+44.00
- "A88_C" 11+13.49 TO 23+38.44

mark_polischuk 5/12/2011 12:10:12 PM HSTFB_P_X01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



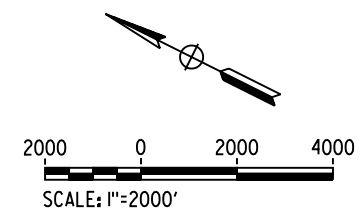
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3060
SCALE
AS SHOWN
SHEET NO.
16 OF 16



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA
WOOLLOMES AVENUE	4657+00.00
ELMO HIGHWAY	4908+00.00



5/12/2011 11:30:48 AM HSTFB_A1_K01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0110
SCALE
AS SHOWN
SHEET NO.
1 OF 20

LINE DATA

NO.	BEARING	DISTANCE
1	N89°36'35"E	3,200.00'



5/12/2011 11:32:30 AM HSTFB_A1_J22_L01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
COUNTY RD J22

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1501
SCALE
AS SHOWN
SHEET NO.
2 OF 20

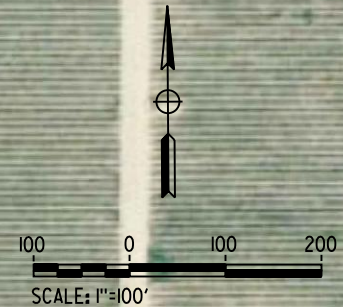
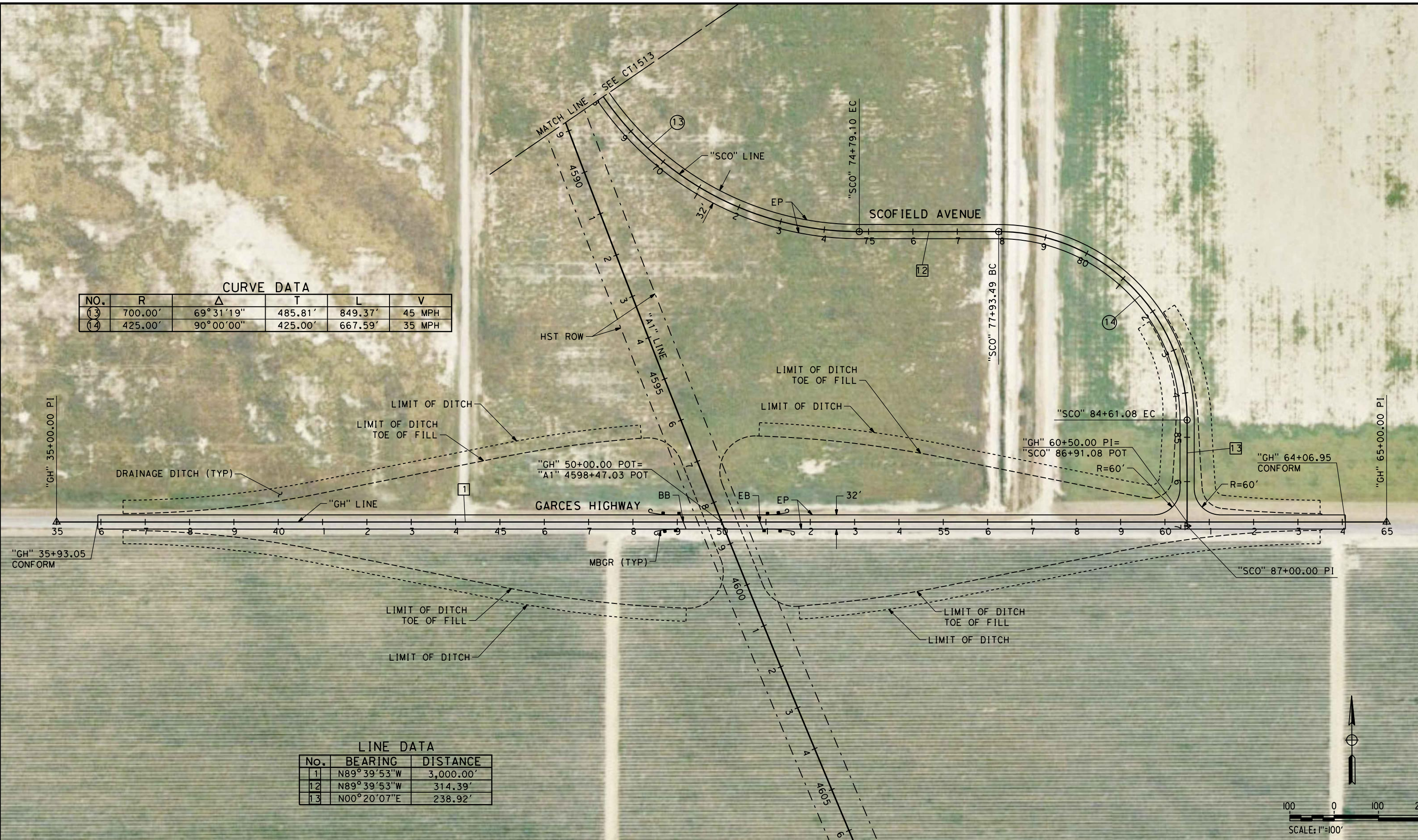
5/12/2011 11:32:46 AM HSTFB_A1_GH_L01.dgn

CURVE DATA

NO.	R	Δ	T	L	V
13	700.00'	69°31'19"	485.81'	849.37'	45 MPH
14	425.00'	90°00'00"	425.00'	667.59'	35 MPH

LINE DATA

No.	BEARING	DISTANCE
1	N89°39'53"W	3,000.00'
12	N89°39'53"W	314.39'
13	N00°20'07"E	238.92'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
GARCES HWY

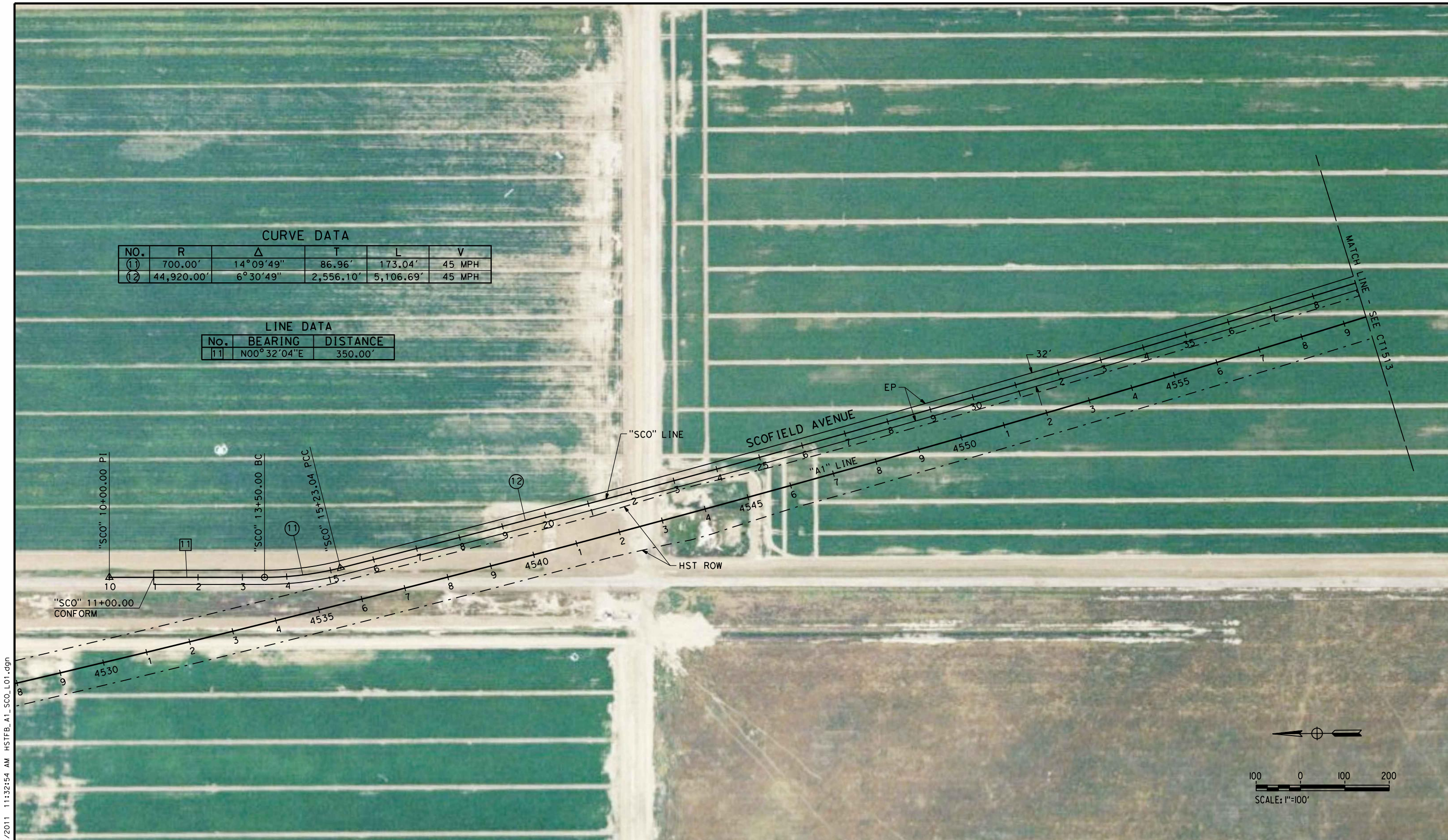
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1511
SCALE
AS SHOWN
SHEET NO.
3 OF 20

CURVE DATA

NO.	R	Δ	T	L	V
(1)	700.00'	14°09'49"	86.96'	173.04'	45 MPH
(2)	44,920.00'	6°30'49"	2,556.10'	5,106.69'	45 MPH

LINE DATA

No.	BEARING	DISTANCE
11	N00°32'04"E	350.00'



5/12/2011 11:32:54 AM HSTFB_A1_SCO_L01.dgn carlton_allen

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

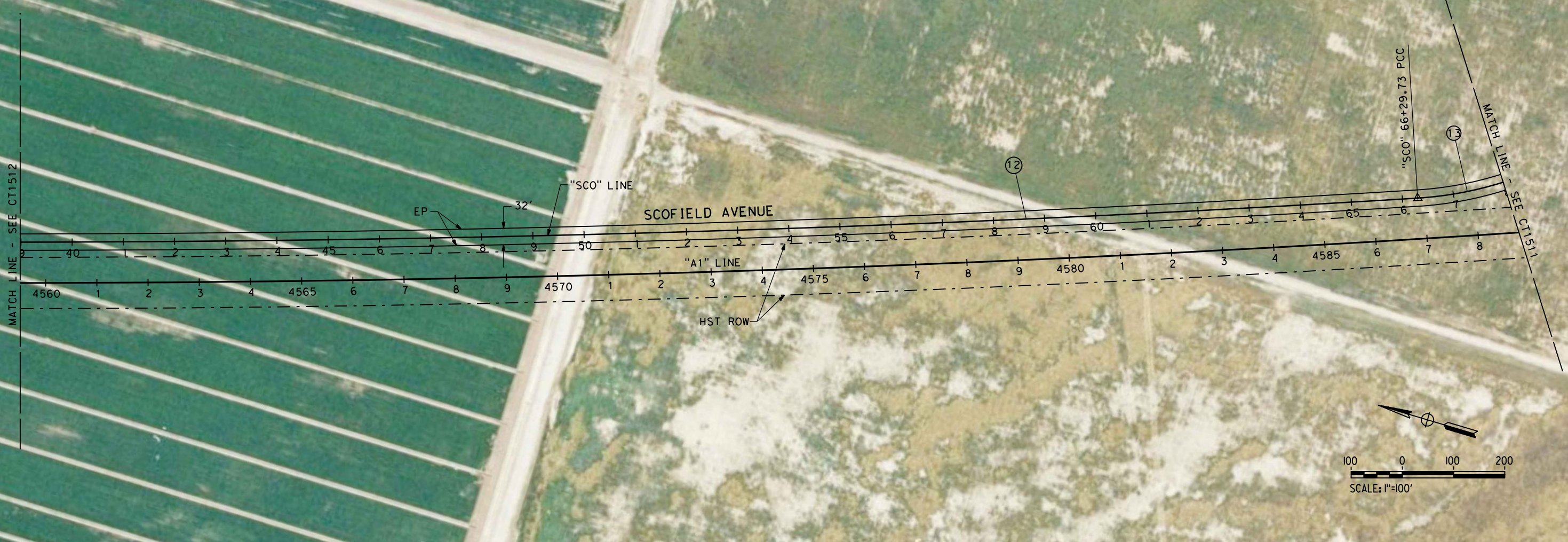


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
SCOFIELD AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1512
SCALE
AS SHOWN
SHEET NO.
4 OF 20

5/12/2011 11:33:02 AM HSTFB_A1_SCO_L02.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
(12)	44,920.00'	6°30'49"	2,556.10'	5,106.69'	45 MPH
(13)	700.00'	69°31'19"	485.81'	849.37'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

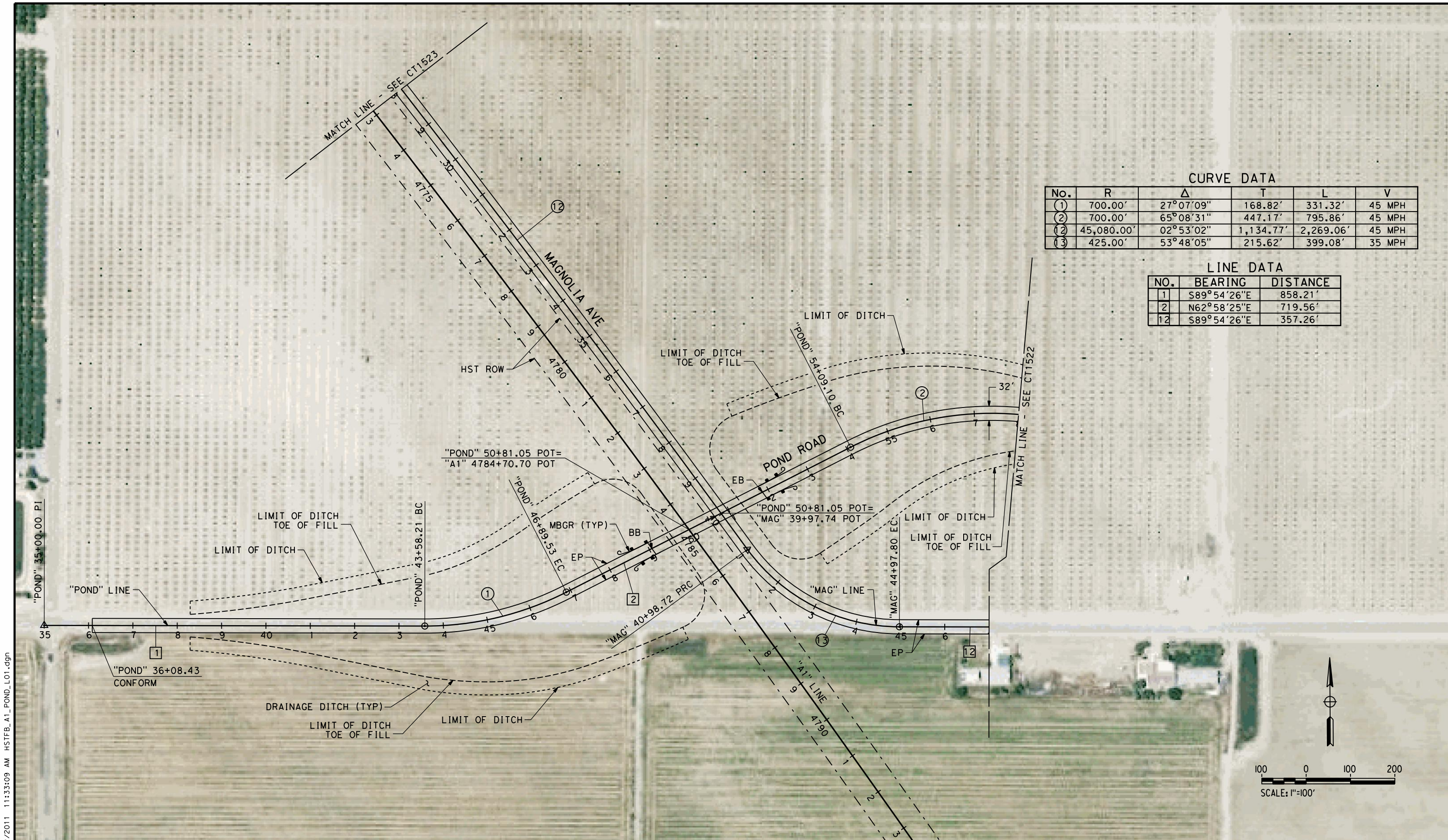
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
SCOFIELD AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1513
SCALE
AS SHOWN
SHEET NO.
5 OF 20

5/12/2011 11:33:09 AM HSTFB_A1_POND_L01.dgn



CURVE DATA

No.	R	Δ	T	L	V
①	700.00'	27°07'09"	168.82'	331.32'	45 MPH
②	700.00'	65°08'31"	447.17'	795.86'	45 MPH
⑫	45,080.00'	02°53'02"	1,134.77'	2,269.06'	45 MPH
⑬	425.00'	53°48'05"	215.62'	399.08'	35 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S89°54'26"E	858.21'
2	N62°58'25"E	719.56'
12	S89°54'26"E	357.26'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
C. ALLEN

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 ALLENSWORTH BYPASS SUBSECTION
 ALIGNMENT A1
 GRADE SEPARATION LAYOUT
 POND RD

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1521

SCALE
AS SHOWN

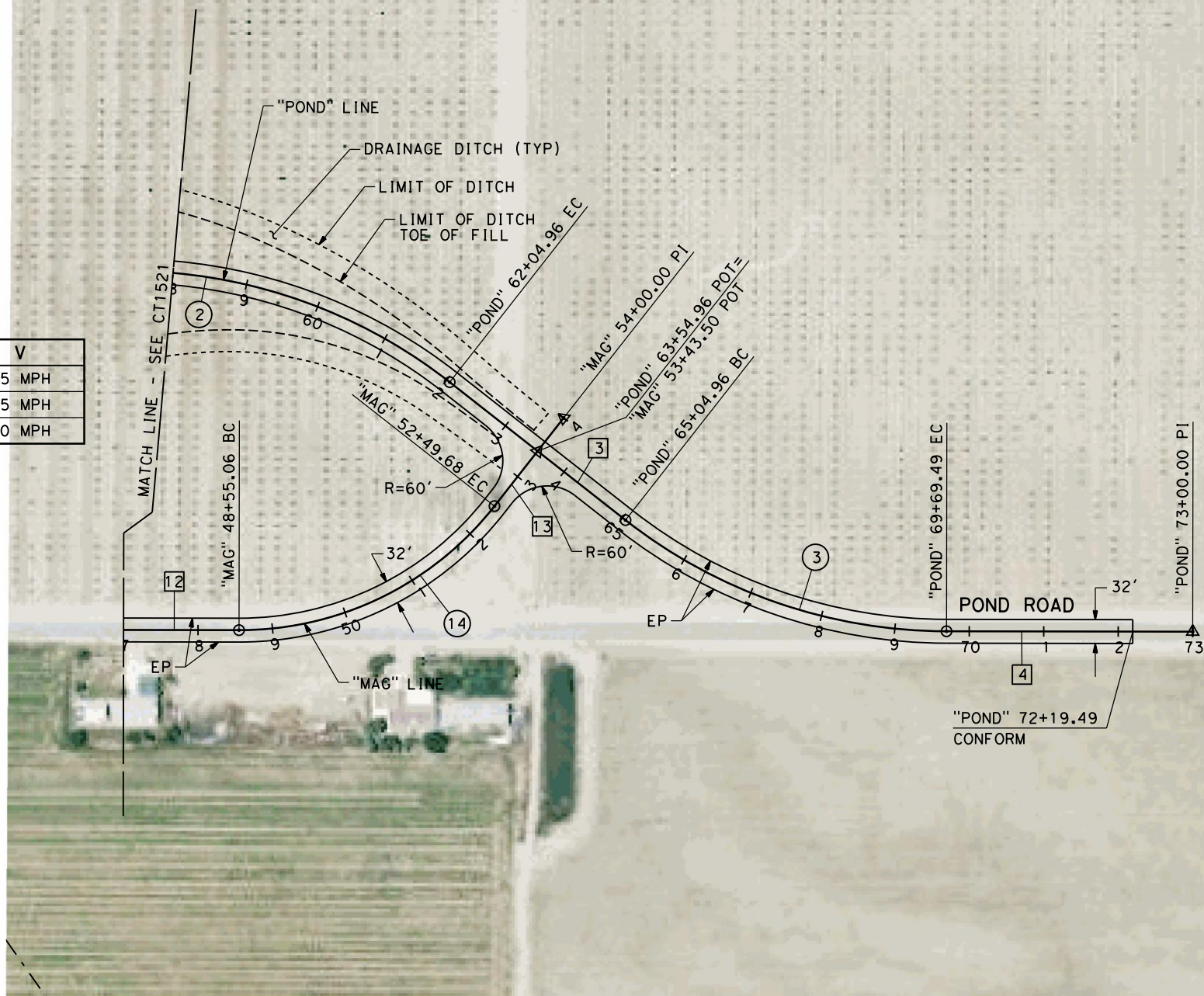
SHEET NO.
6 OF 20

LINE DATA

NO.	BEARING	DISTANCE
3	S51°53'04"E	300.00'
4	S89°54'26"E	330.51'
12	S89°54'26"E	357.26'
13	N38°06'56"E	150.32'

CURVE DATA

No.	R	Δ	T	L	V
2	700.00'	65°08'31"	447.17'	795.86'	45 MPH
3	700.00'	38°01'22"	241.19'	464.54'	45 MPH
14	435.00'	51°58'38"	212.06'	394.62'	30 MPH



5/12/2011 11:33:18 AM HSTFB_A1_POND_L02.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

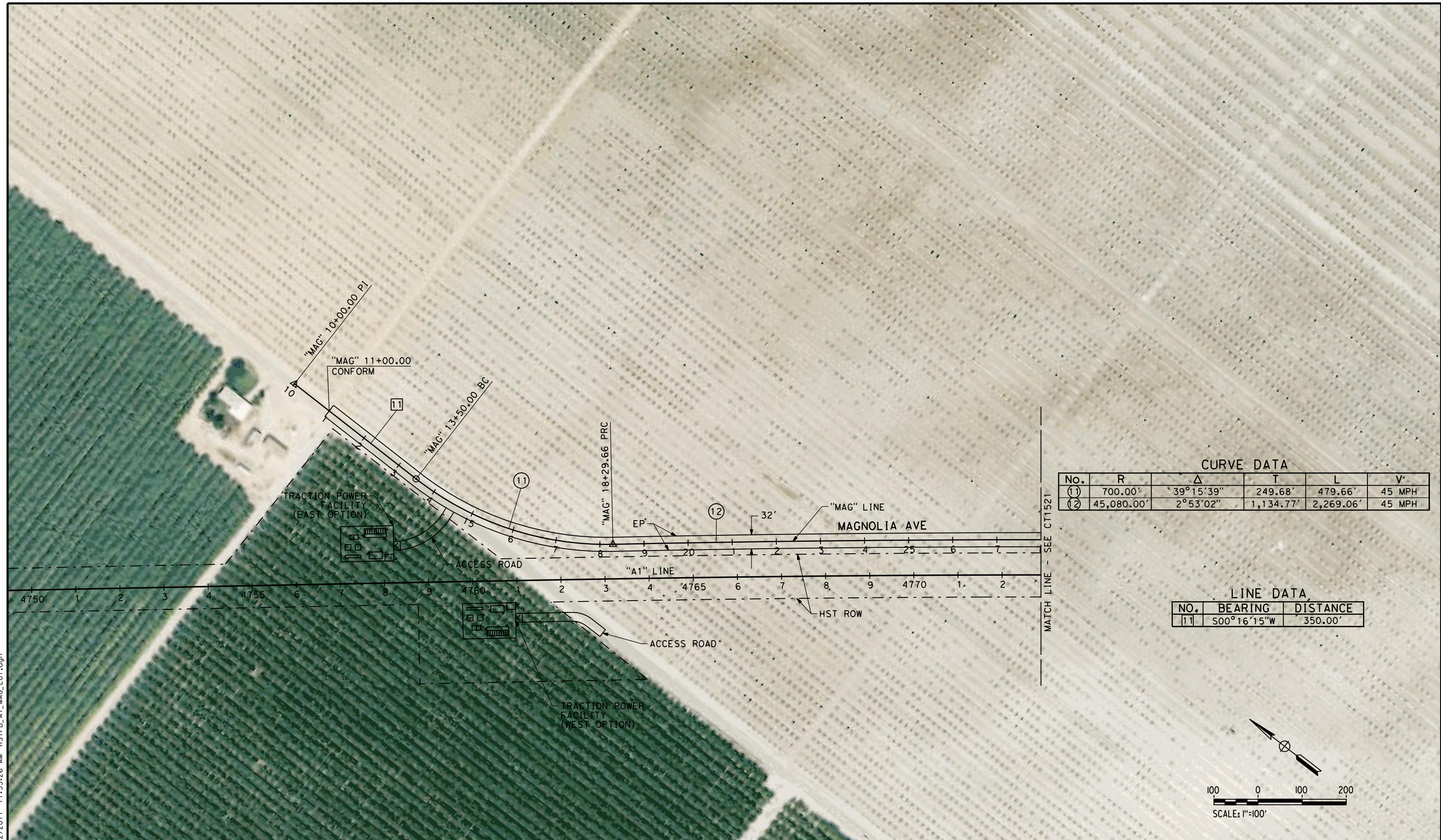
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
POND RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1522
SCALE
AS SHOWN
SHEET NO.
7 OF 20

5/12/2011 11:33:26 AM HSTFB_A1_MAG_L01.dgn

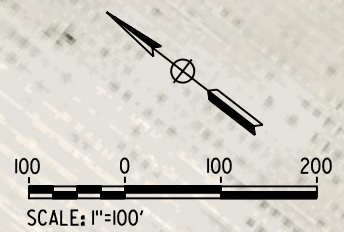


CURVE DATA

No.	R	Δ	T	L	V
(1)	700.00'	39°15'39"	249.68'	479.66'	45 MPH
(2)	45,080.00'	2°53'02"	1,134.77'	2,269.06'	45 MPH

LINE DATA

NO.	BEARING	DISTANCE
11	S00°16'15"W	350.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
MAGNOLIA AVE

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1523

SCALE
AS SHOWN

SHEET NO.
8 OF 20

LINE DATA		
No.	BEARING	DISTANCE
1	S89°46'41"E	3,000.00'



5/12/2011 11:33:36 AM HSTFB_A1_PTR_L01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

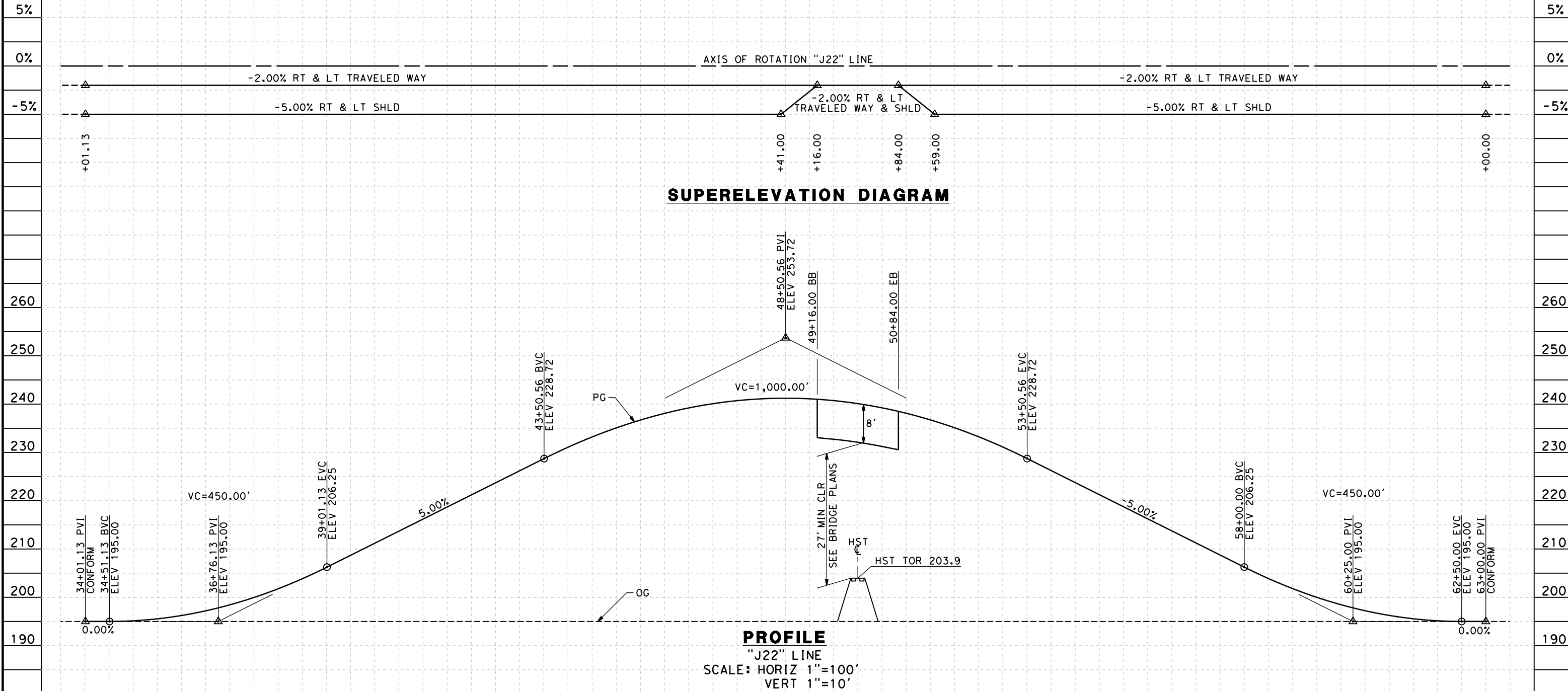
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
PETERSON RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1531
SCALE
AS SHOWN
SHEET NO.
9 OF 20

- 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



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	9	60	1	2	3	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
C. ALLEN

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
COUNTY RD J22

CONTRACT NO.
HSR 06-0003

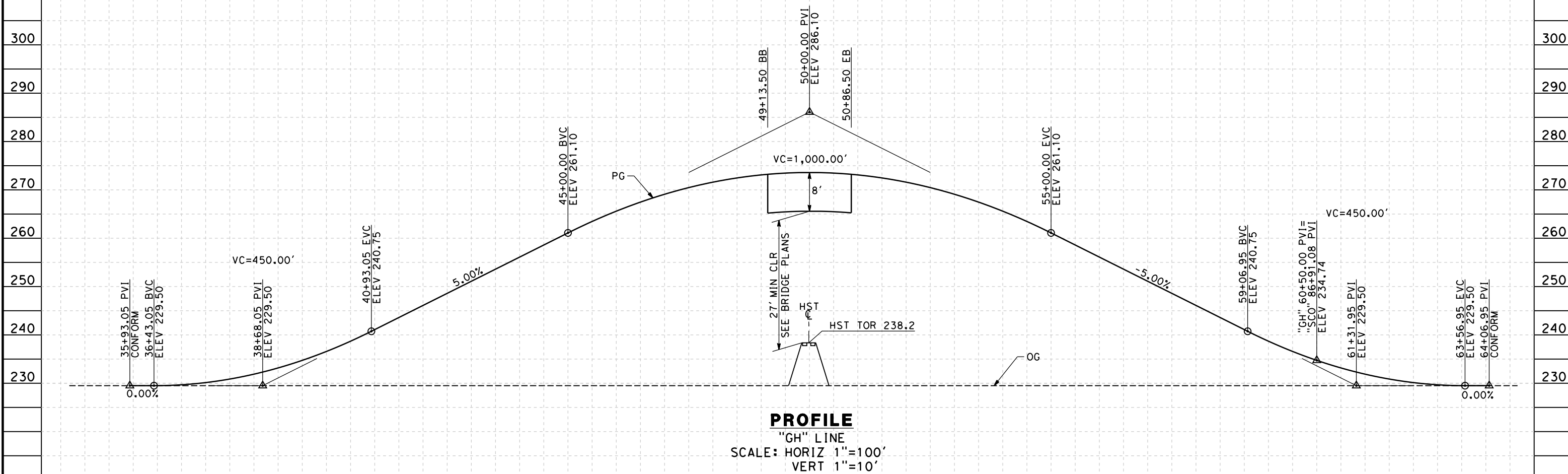
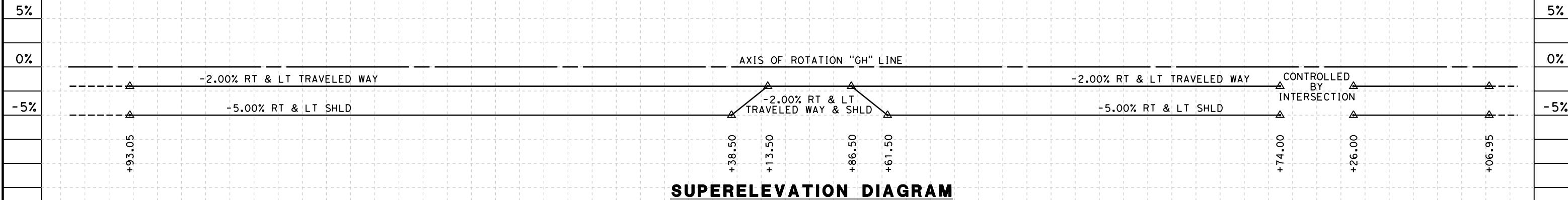
DRAWING NO.
CT2501

SCALE
AS SHOWN

SHEET NO.
10 OF 20

5/12/2011 11:33:47 AM HSTFB_A1_J22_PS01.dgn

- 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



STATION	35	6	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	TOTAL		
Exc																																	
Emb																																	

5/12/2011 11:33:55 AM HSTFB_A1_GH_PS01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
 DRAWN BY
C. ALLEN
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

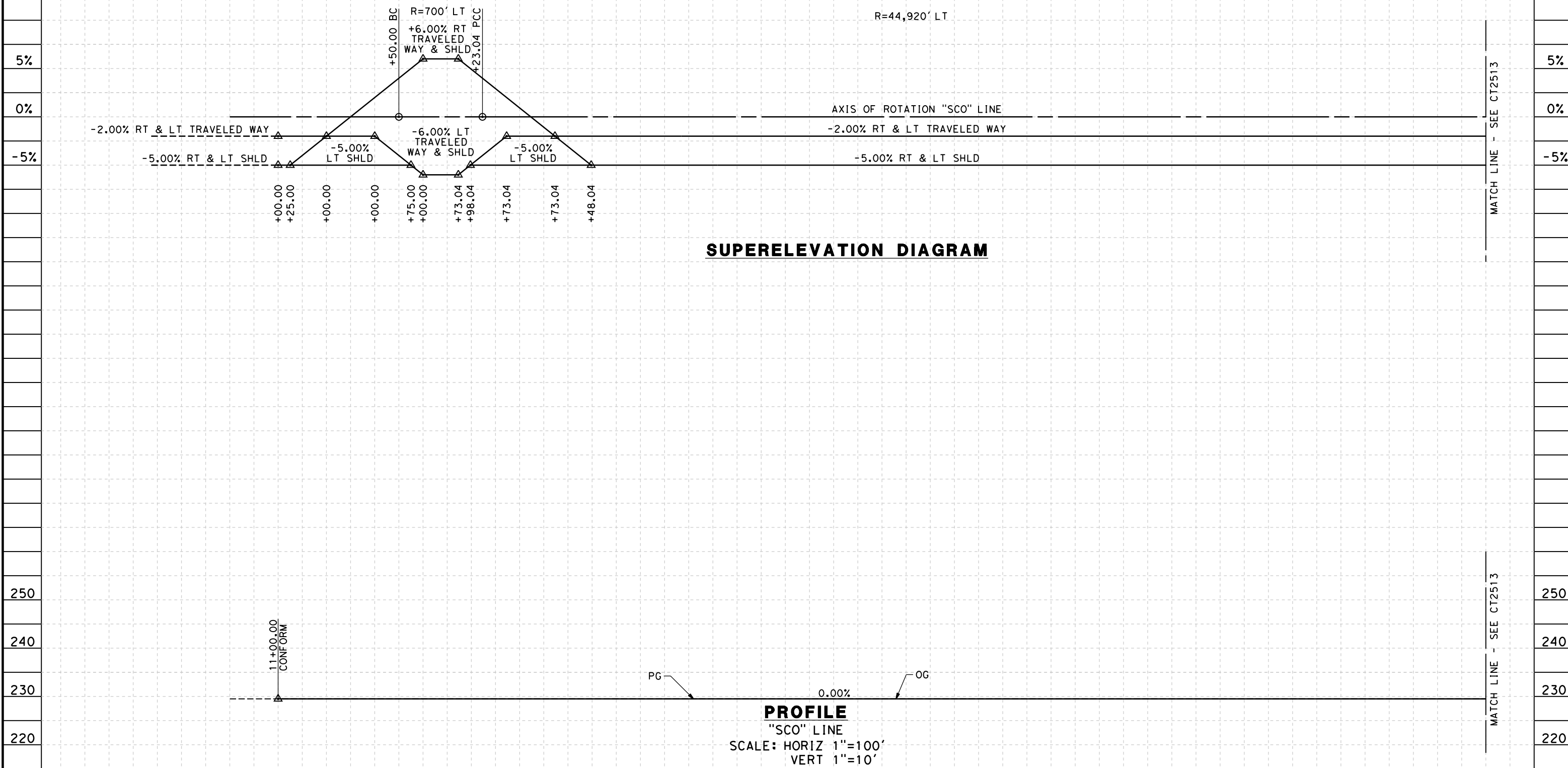
**RECORD SET 15%
 DESIGN SUBMISSION**
 -
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 ALLENSWORTH BYPASS SUBSECTION
 ALIGNMENT A1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 GARCES HWY

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2511
 SCALE
AS SHOWN
 SHEET NO.
11 OF 20

- NOTES:
 1. VERTICAL DESIGN SPEED = 55 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	35	6	TOTAL
Exc																												
Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
 DRAWN BY
C. ALLEN
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

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

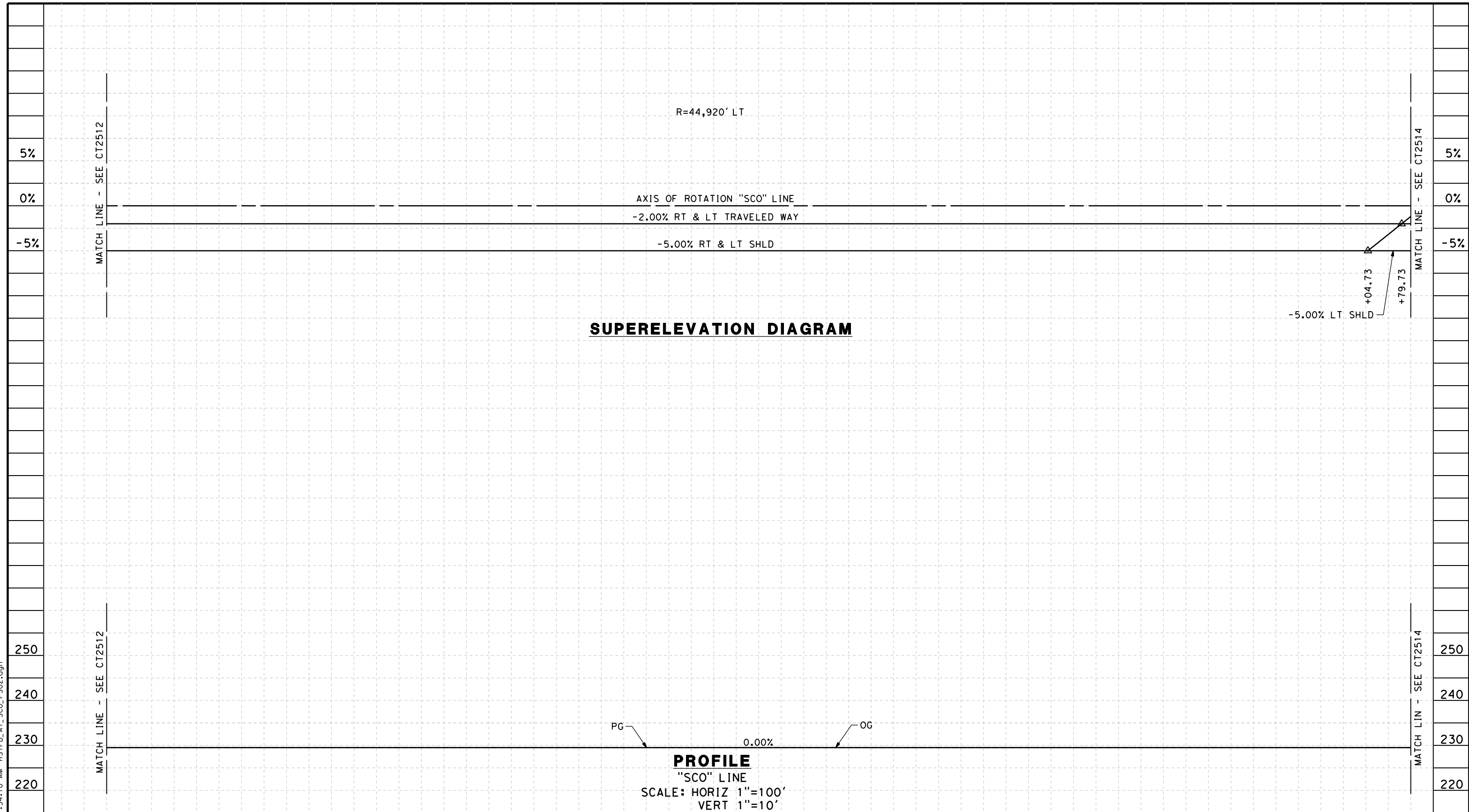


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 ALLENSWORTH BYPASS SUBSECTION
 ALIGNMENT A1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 SCOFIELD AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2512
 SCALE
AS SHOWN
 SHEET NO.
12 OF 20

5/12/2011 11:34:03 AM HSTFB_A1_SCO_PS01.dgn

5/12/2011 11:34:10 AM HSTFB_A1_SCO_PS02.dgn



STATION	6	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	TOTAL	
Exc																																
Emb																																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

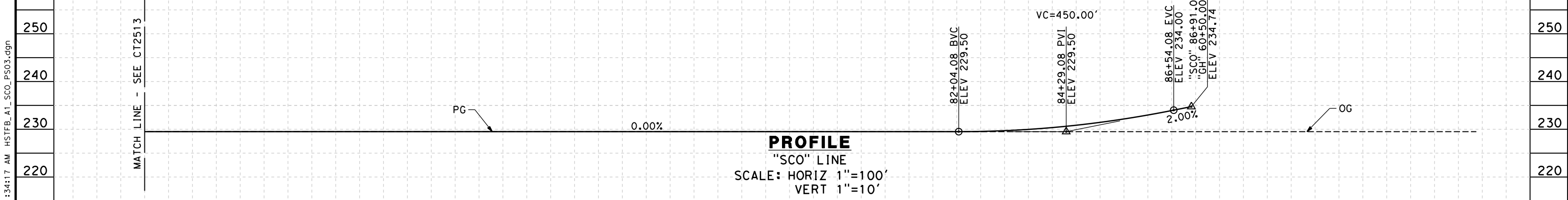
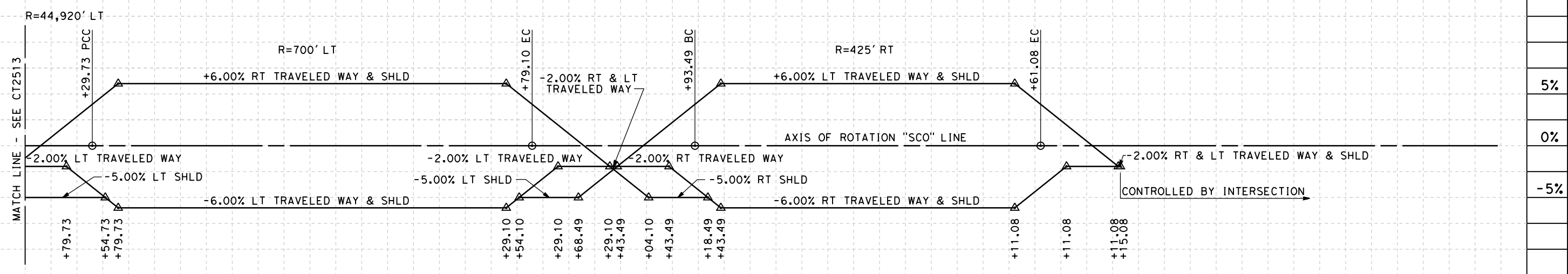
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
SCOFIELD AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2513
SCALE
AS SHOWN
SHEET NO.
13 OF 20

5/12/2011 11:34:17 AM HSTFB_A1_SCO_PS03.dgn



STATION	65	6	7	8	9	70	1	2	3	4	75	6	7	8	9	80	1	2	3	4	85	6	7	8	9	90	1	2	3	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

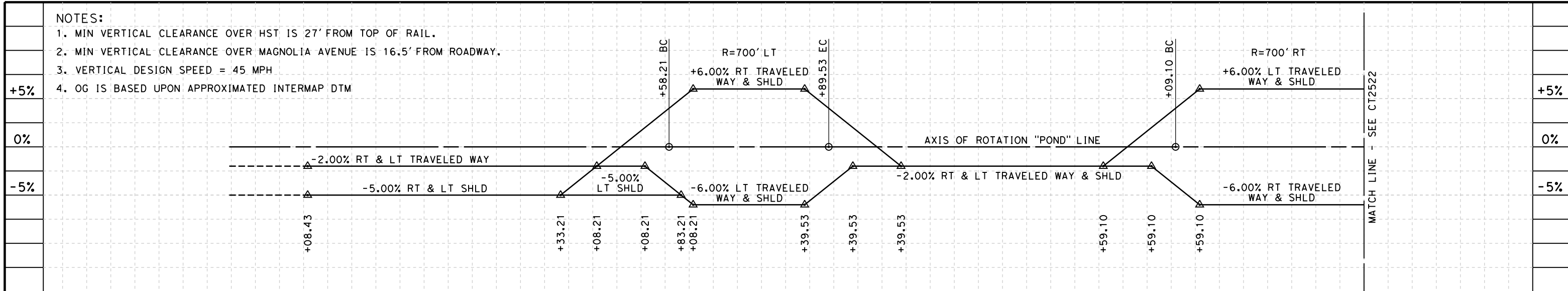


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

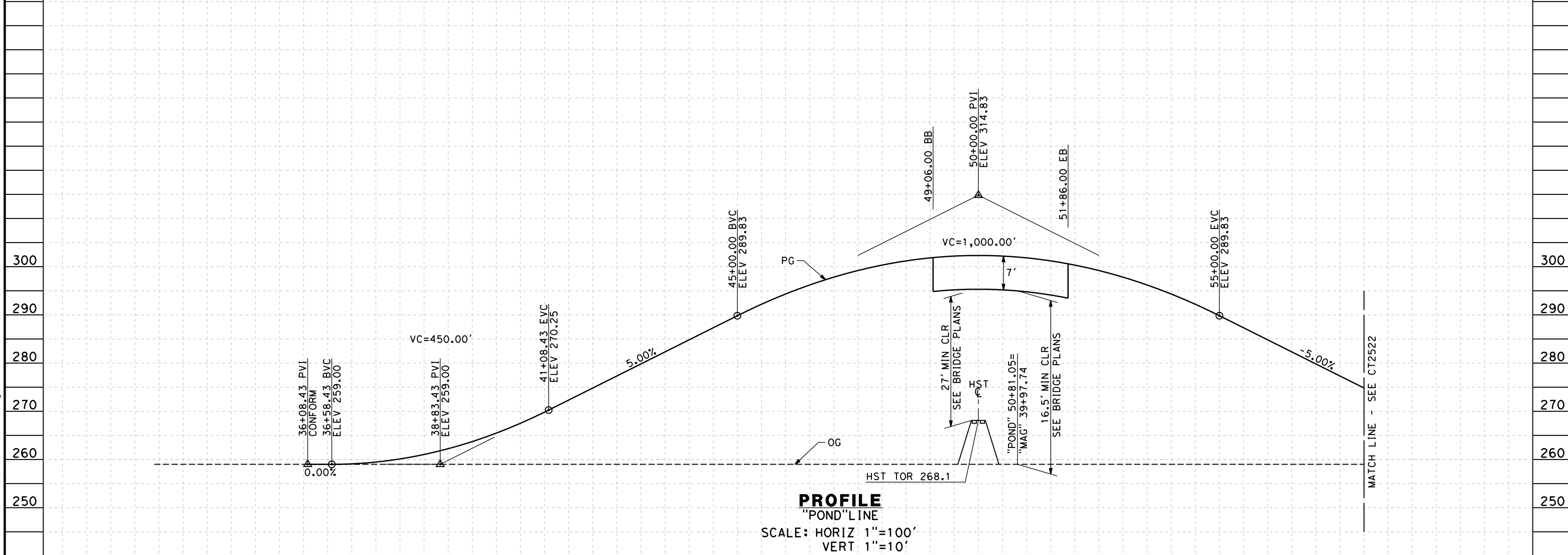
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
SCOFIELD AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2514
SCALE
AS SHOWN
SHEET NO.
14 OF 20

- NOTES:
 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 2. MIN VERTICAL CLEARANCE OVER MAGNOLIA AVENUE IS 16.5' FROM ROADWAY.
 3. VERTICAL DESIGN SPEED = 45 MPH
 4. OG IS BASED UPON APPROXIMATED INTERMAP DTM



SUPERELEVATION DIAGRAM



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

STATION	3	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
Exc																											
Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
 DRAWN BY
C. ALLEN
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

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

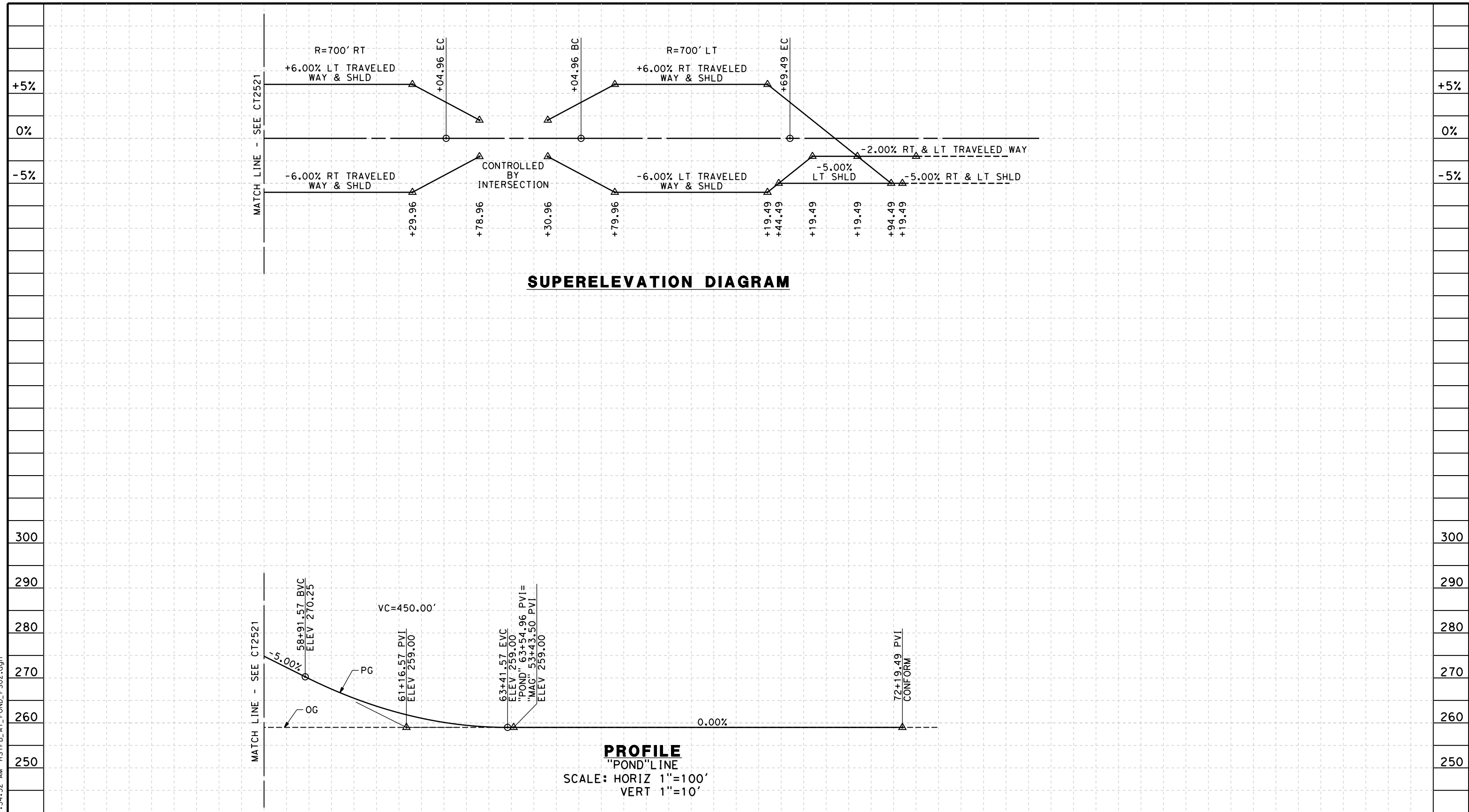


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 ALLENSWORTH BYPASS SUBSECTION
 ALIGNMENT A1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 POND RD

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2521
 SCALE
AS SHOWN
 SHEET NO.
15 OF 20

5/12/2011 11:34:24 AM HSTFB_A1_POND_PS01.dgn carlton_allen

5/12/2011 11:34:32 AM HSTFB_A1_POND_P502.dgn



STATION	8	9	60	1	2	3	4	65	6	7	8	9	70	1	2	3	4	75	TOTAL
Exc																			
Emb																			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

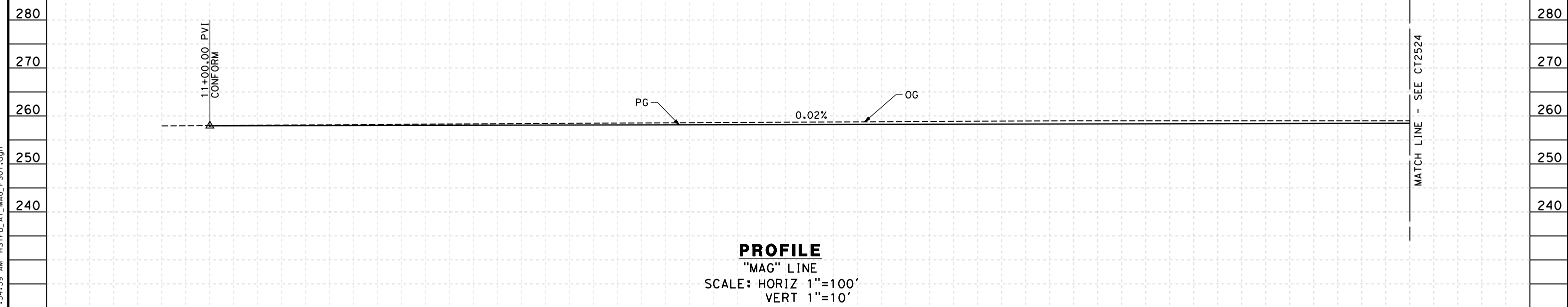
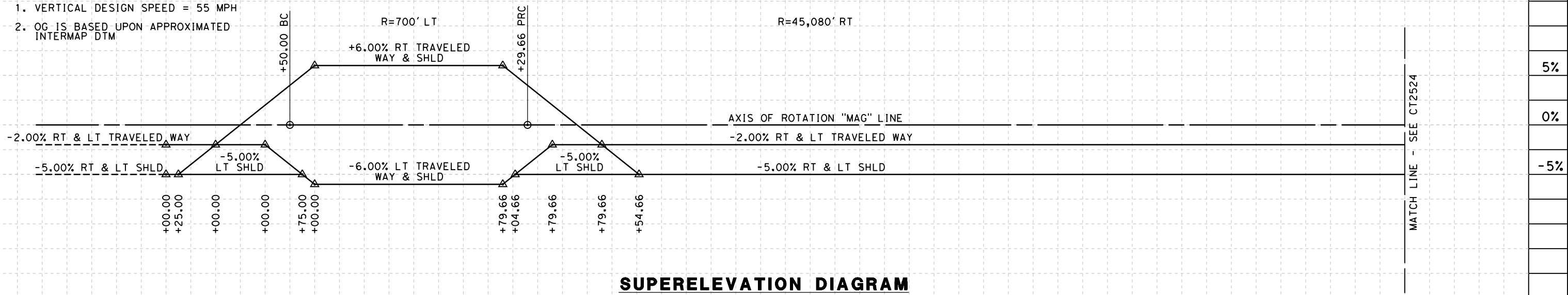
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
POND RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2522
SCALE
AS SHOWN
SHEET NO.
16 OF 20

NOTES:
 1. VERTICAL DESIGN SPEED = 55 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	35	6	TOTAL
Exc																												
Emb																												

5/12/2011 11:34:39 AM HSTFB_A1_MAG_PS01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
 DRAWN BY
C. ALLEN
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

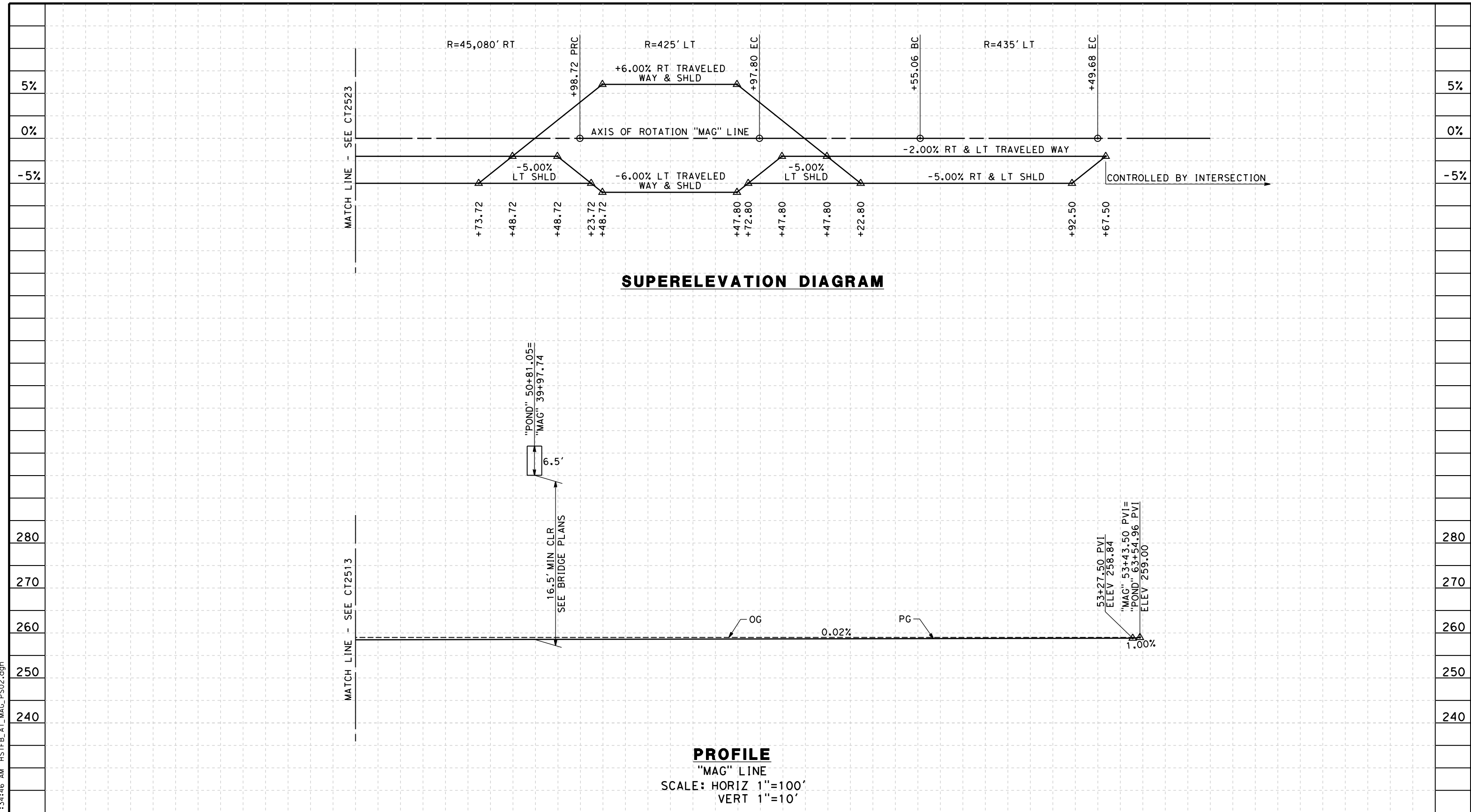
**RECORD SET 15%
 DESIGN SUBMISSION**
 -
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 ALLENSWORTH BYPASS SUBSECTION
 ALIGNMENT A1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 MAGNOLIA AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2523
 SCALE
AS SHOWN
 SHEET NO.
17 OF 20

5/12/2011 11:34:46 AM HSTFB_A1_MAG_PS02.dgn



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
C. ALLEN

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
MAGNOLIA AVE

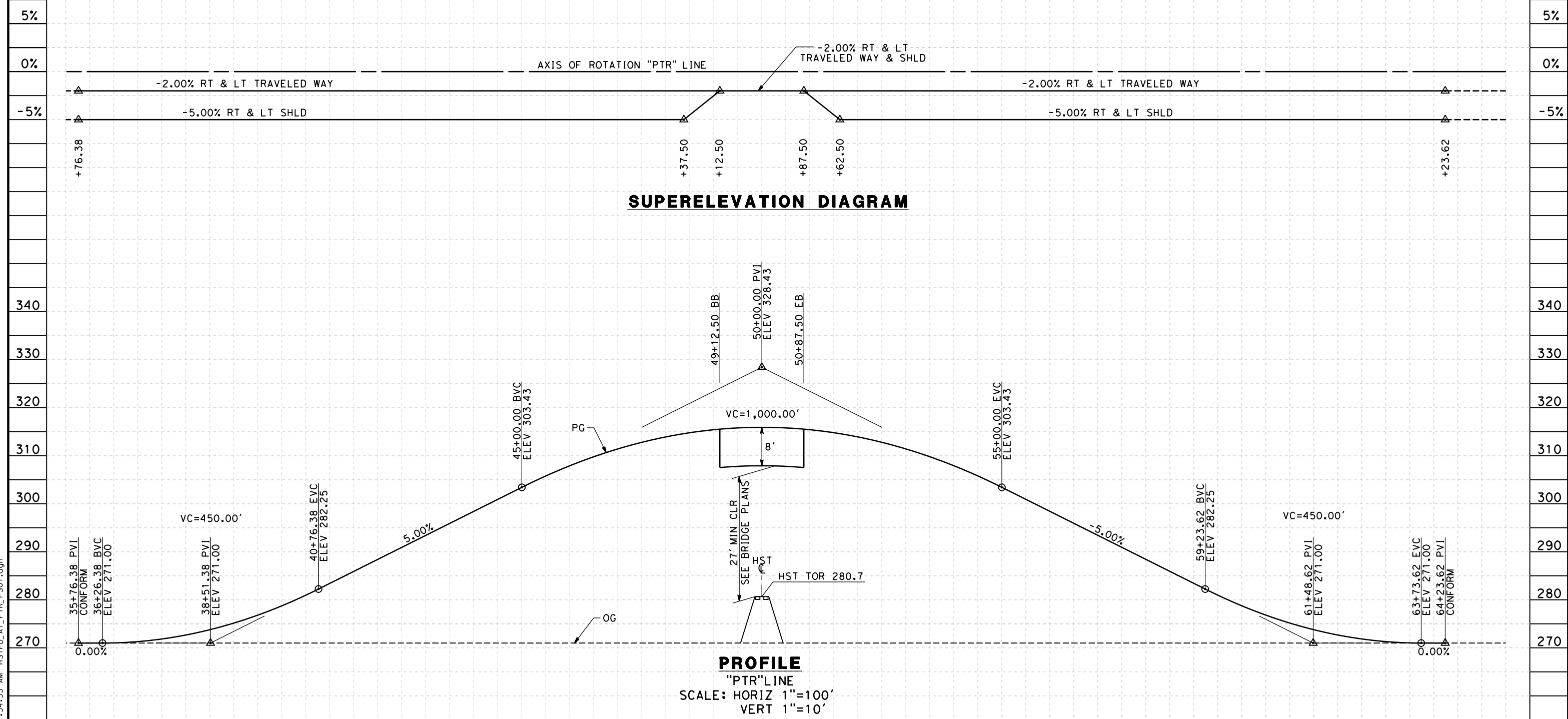
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2524

SCALE
AS SHOWN

SHEET NO.
18 OF 20

- 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



STATION	6	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	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
 DRAWN BY
C. ALLEN
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 ALLENSWORTH BYPASS SUBSECTION
 ALIGNMENT A1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 PETERSON RD

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2531
 SCALE
AS SHOWN
 SHEET NO.
19 OF 20

5/12/2011 11:34:53 AM HSTFB_A1_PTR_PS01.dgn

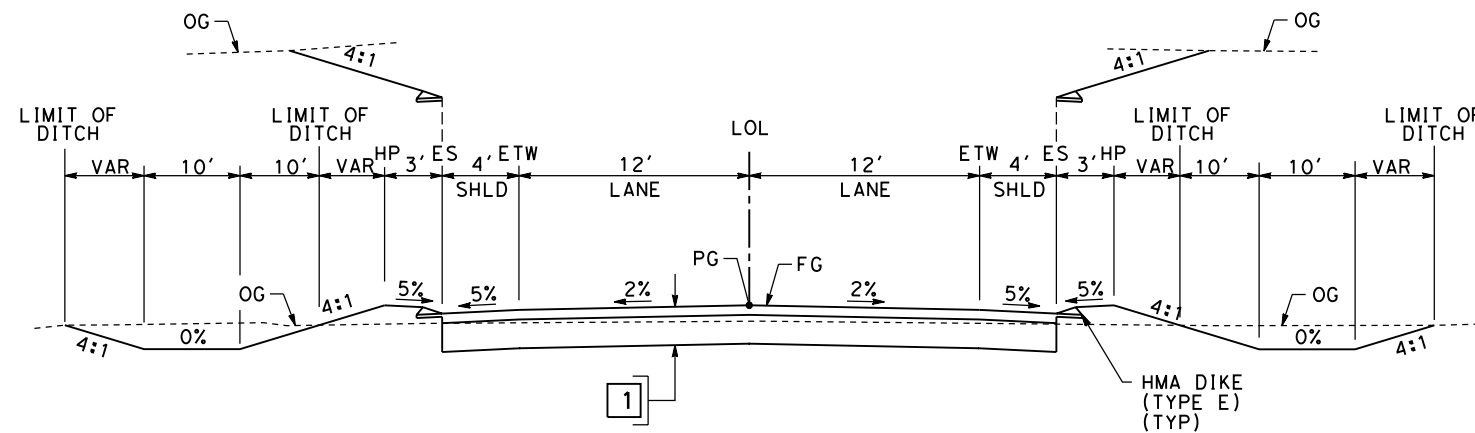
NOTES:

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

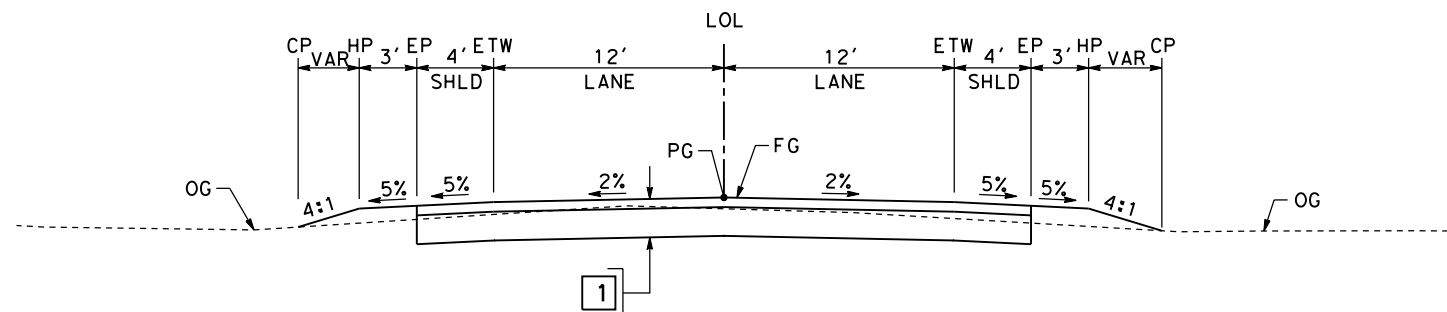
TYPICAL ROADWAY

- 1 0.30' HMA (TYPE A)
- 1.40' CL 2' AB



SECTION A

- "J22" 34+51.23 TO 49+16.00
- "J22" 50+84.00 TO 62+50.00
- "GH" 36+43.05 TO 49+13.50
- "GH" 50+86.50 TO 63+56.95
- "SCO" 82+04.08 TO 86+91.08
- "POND" 36+58.43 TO 49+06.00
- "POND" 51+86.00 TO 63+41.57
- "PTR" 36+26.38 TO 49+12.50
- "PTR" 50+87.50 TO 63+73.62



SECTION B

- "J22" 34+01.23 TO 34+51.23
- "J22" 62+50.00 TO 63+00.00
- "GH" 35+93.05 TO 36+43.05
- "GH" 63+56.95 TO 64+06.95
- "SCO" 11+00.00 TO 82+04.08
- "POND" 36+08.43 TO 36+58.43
- "POND" 63+41.57 TO 72+19.49
- "MAG" 11+00.00 TO 53+43.50
- "PTR" 35+76.38 TO 36+26.38
- "PTR" 63+73.62 TO 64+23.62

carlton_allen 5/12/2011 11:34:59 AM HSTFB_A1_X01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3070
SCALE
AS SHOWN
SHEET NO.
20 OF 20

STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
PALMER AVENUE	4245+50.00
POND ROAD	4804+00.00



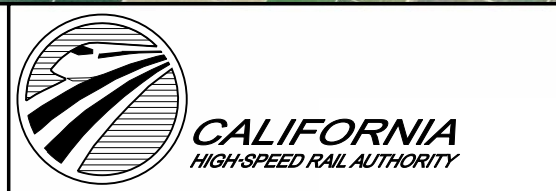
6/29/2011 12:35:24 PM HSTFB_A2_K01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0120
SCALE
AS SHOWN
SHEET NO.
1 OF 18

LINE DATA

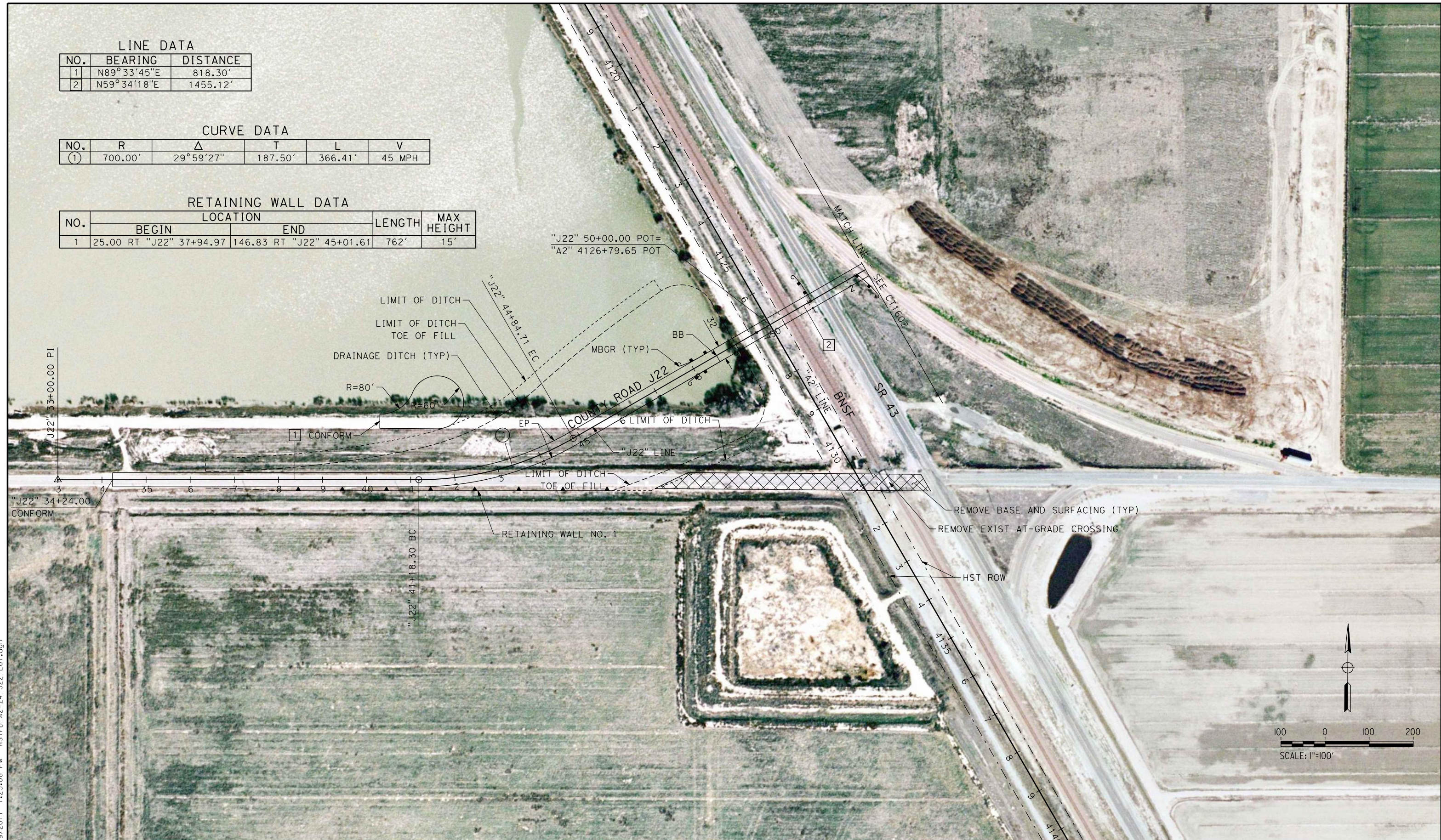
NO.	BEARING	DISTANCE
1	N89°33'45"E	818.30'
2	N59°34'18"E	1455.12'

CURVE DATA

NO.	R	Δ	T	L	V
(1)	700.00'	29°59'27"	187.50'	366.41'	45 MPH

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	25.00 RT "J22" 37+94.97	146.83 RT "J22" 45+01.61	762'	15'



6/29/2011 1:23:08 PM HSTFB_A2-Z4_J22_L01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
COUNTY RD J22

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1601
SCALE
AS SHOWN
SHEET NO.
2 OF 18

5/12/2011 11:42:51 AM HSTFB_A2-Z4_J22_L02.dgn

LINE DATA

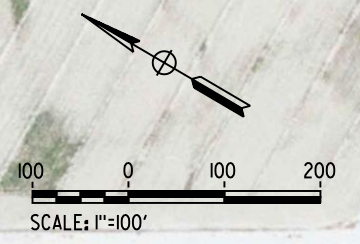
NO.	BEARING	DISTANCE
2	N59°34'18"E	1455.12'
3	S00°32'24"E	295.45'

CURVE DATA

NO.	R	Δ	T	L	V
②	700.00'	119°53'18"	1209.71'	1464.71'	45 MPH

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT	
	BEGIN	END			
1	42.90 RT "J22"	52+99.17 149.01 RT "J22"	53+30.30	111'	38'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

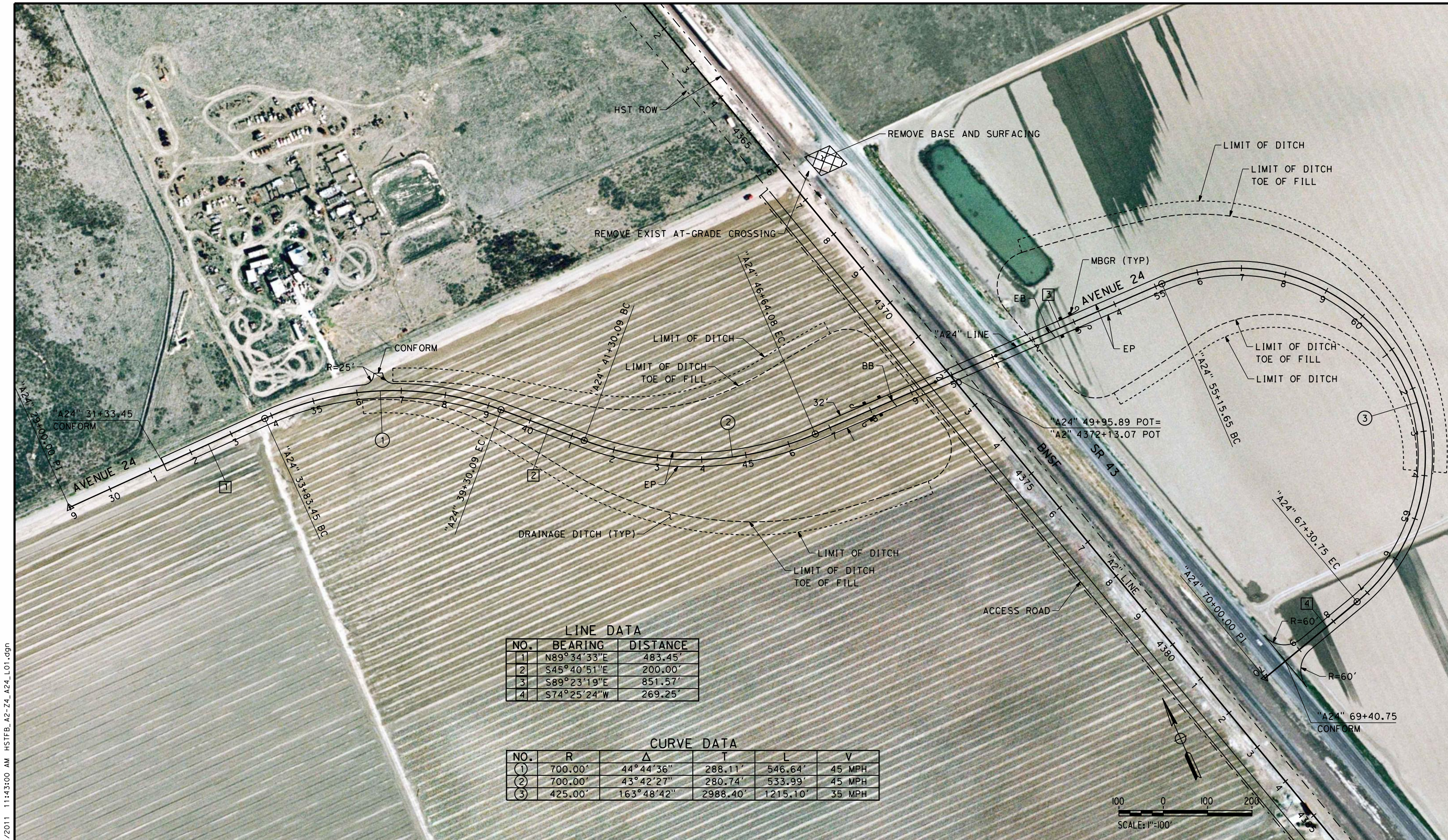
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
COUNTY RD J22

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1602
SCALE
AS SHOWN
SHEET NO.
3 OF 18

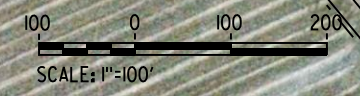


LINE DATA

NO.	BEARING	DISTANCE
1	N89°34'33"E	483.45'
2	S45°40'51"E	200.00'
3	S89°23'19"E	851.57'
4	S74°25'24"W	269.25'

CURVE DATA

NO.	R	Δ	T	L	V
①	700.00'	44°44'36"	288.11'	546.64'	45 MPH
②	700.00'	43°42'27"	280.74'	533.99'	45 MPH
③	425.00'	163°48'42"	2988.40'	1215.10'	35 MPH



5/12/2011 11:43:00 AM HSTFB_A2-Z4_A24_L01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
C. ALLEN

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 THROUGH ALLENSWORTH SUBSECTION
 ALIGNMENT A2
 GRADE SEPARATION LAYOUT
 AVE 24

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1611

SCALE
AS SHOWN

SHEET NO.
4 OF 18

5/12/2011 11:43:10 AM HSTFB_A2-Z5_GH_L01.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°24'30"E	301.83'
2	N75°05'11"E	2279.24'
3	S00°35'30"W	346.90'

CURVE DATA

NO.	R	Δ	T	L	V
①	700.00'	15°30'19"	95.30'	189.43'	45 MPH
②	425.00'	105°30'19"	558.96'	782.60'	35 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

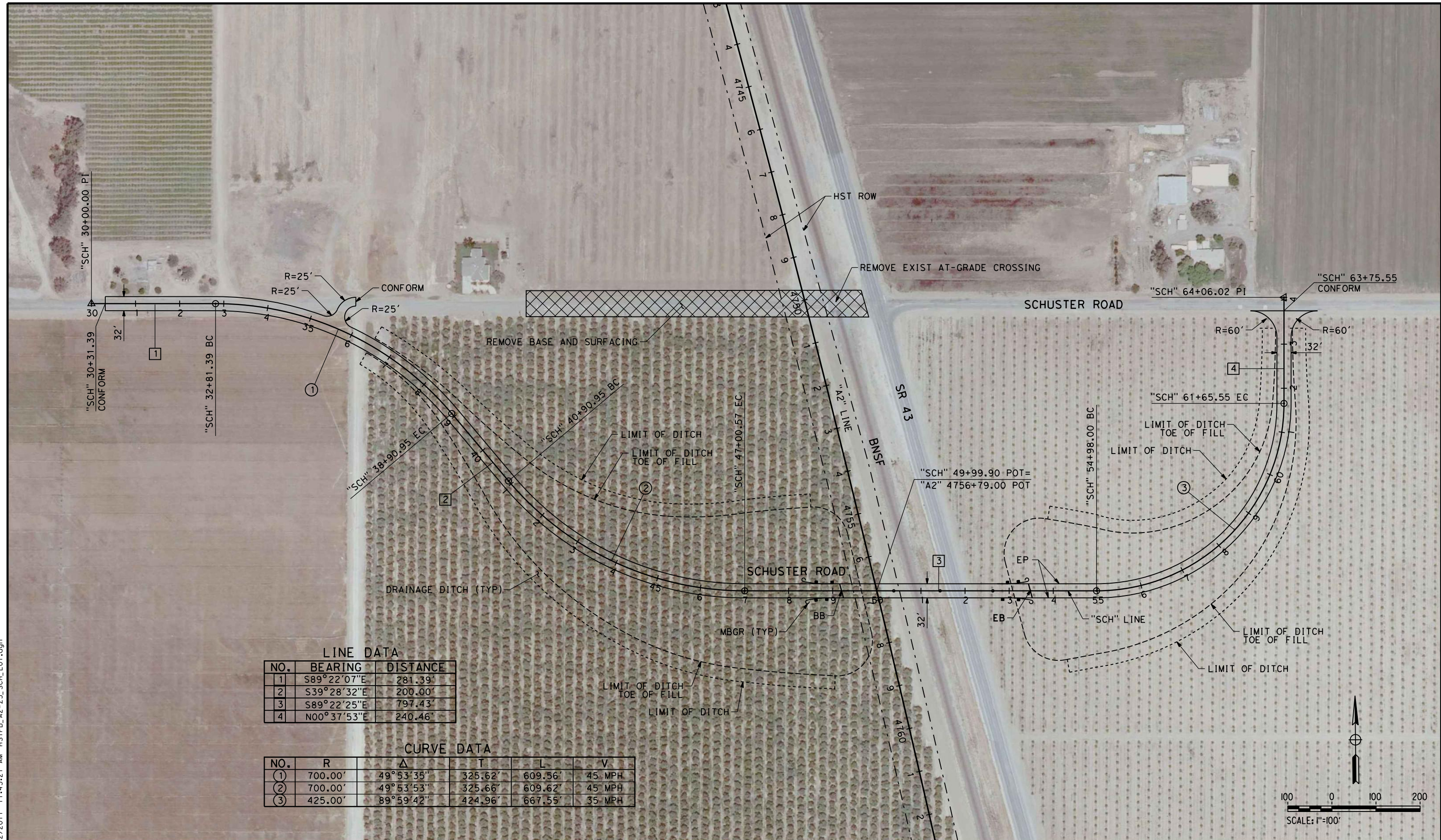
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
GARCES HWY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1621
SCALE
AS SHOWN
SHEET NO.
5 OF 18

5/12/2011 11:43:21 AM HSTFB_A2-Z5_SCH_L01.dgn

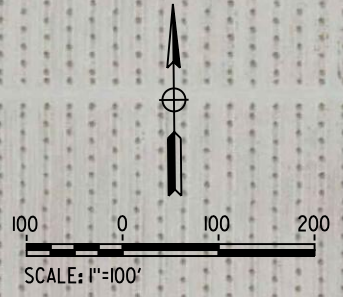


LINE DATA

NO.	BEARING	DISTANCE
1	S89°22'07"E	281.39'
2	S39°28'32"E	200.00'
3	S89°22'25"E	797.43'
4	N00°37'53"E	240.46'

CURVE DATA

NO.	R	Δ	T	L	V
①	700.00'	49°53'35"	325.62'	609.56'	45 MPH
②	700.00'	49°53'53"	325.66'	609.62'	45 MPH
③	425.00'	89°59'42"	424.96'	667.55'	35 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

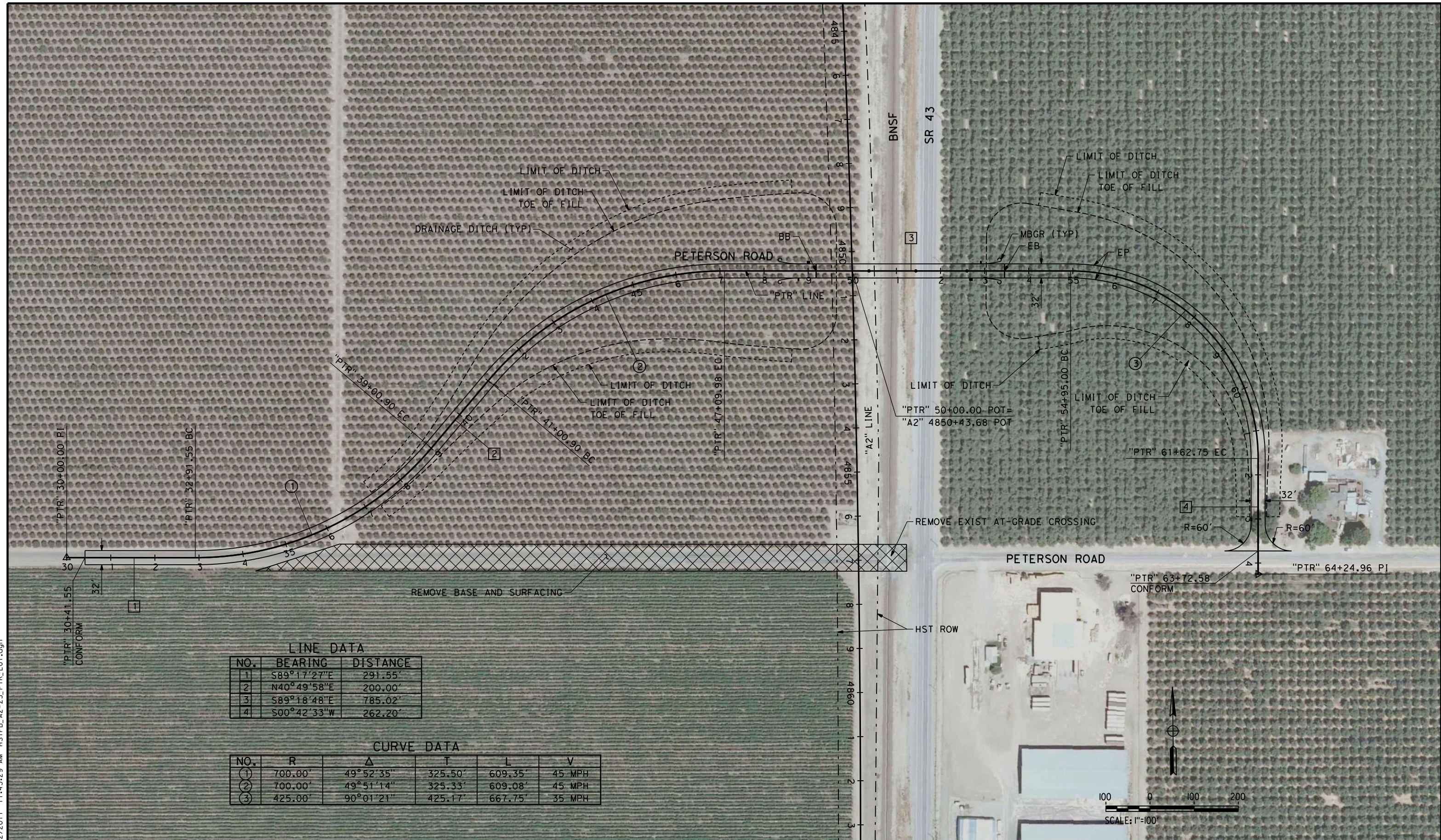
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
SCHUSTER RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1631
SCALE
AS SHOWN
SHEET NO.
6 OF 18

5/12/2011 11:43:29 AM HSTFB_A2-Z5_PTR_L01.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°17'27"E	291.55'
2	N40°49'58"E	200.00'
3	S89°18'48"E	785.02'
4	S00°42'33"W	262.20'

CURVE DATA

NO.	R	Δ	T	L	V
①	700.00'	49°52'35"	325.50'	609.35'	45 MPH
②	700.00'	49°51'14"	325.33'	609.08'	45 MPH
③	425.00'	90°01'21"	425.17'	667.75'	35 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

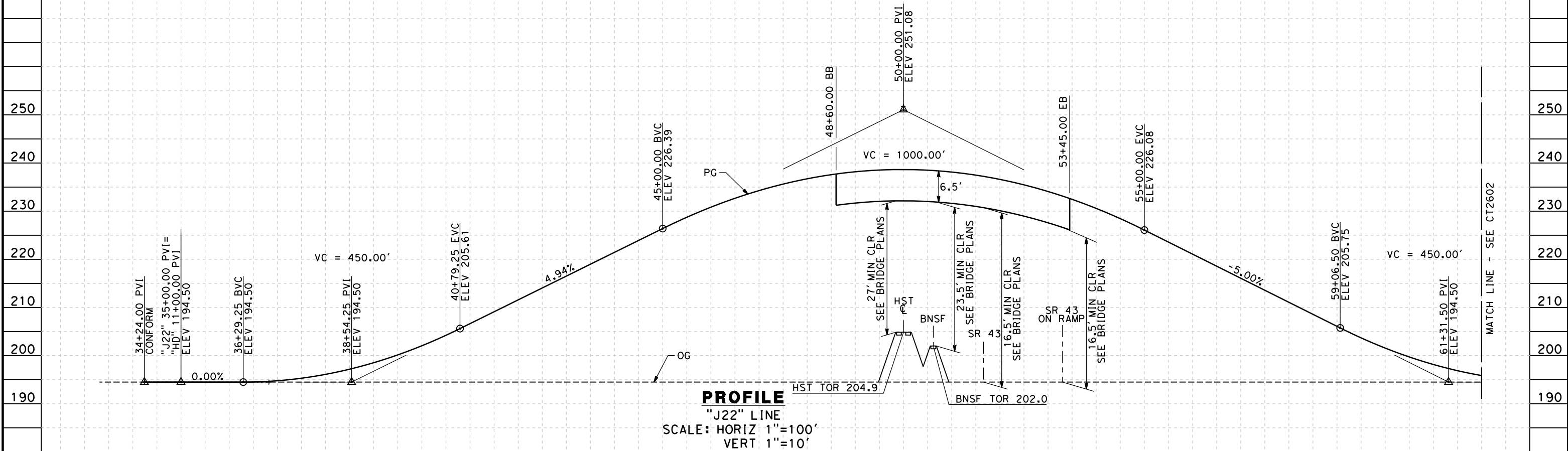
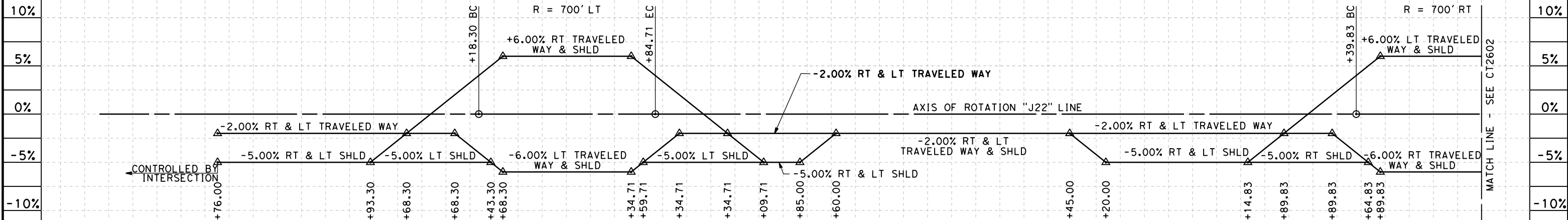


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
PETERSON RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1641
SCALE
AS SHOWN
SHEET NO.
7 OF 18

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' 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	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	9	60	1	2	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



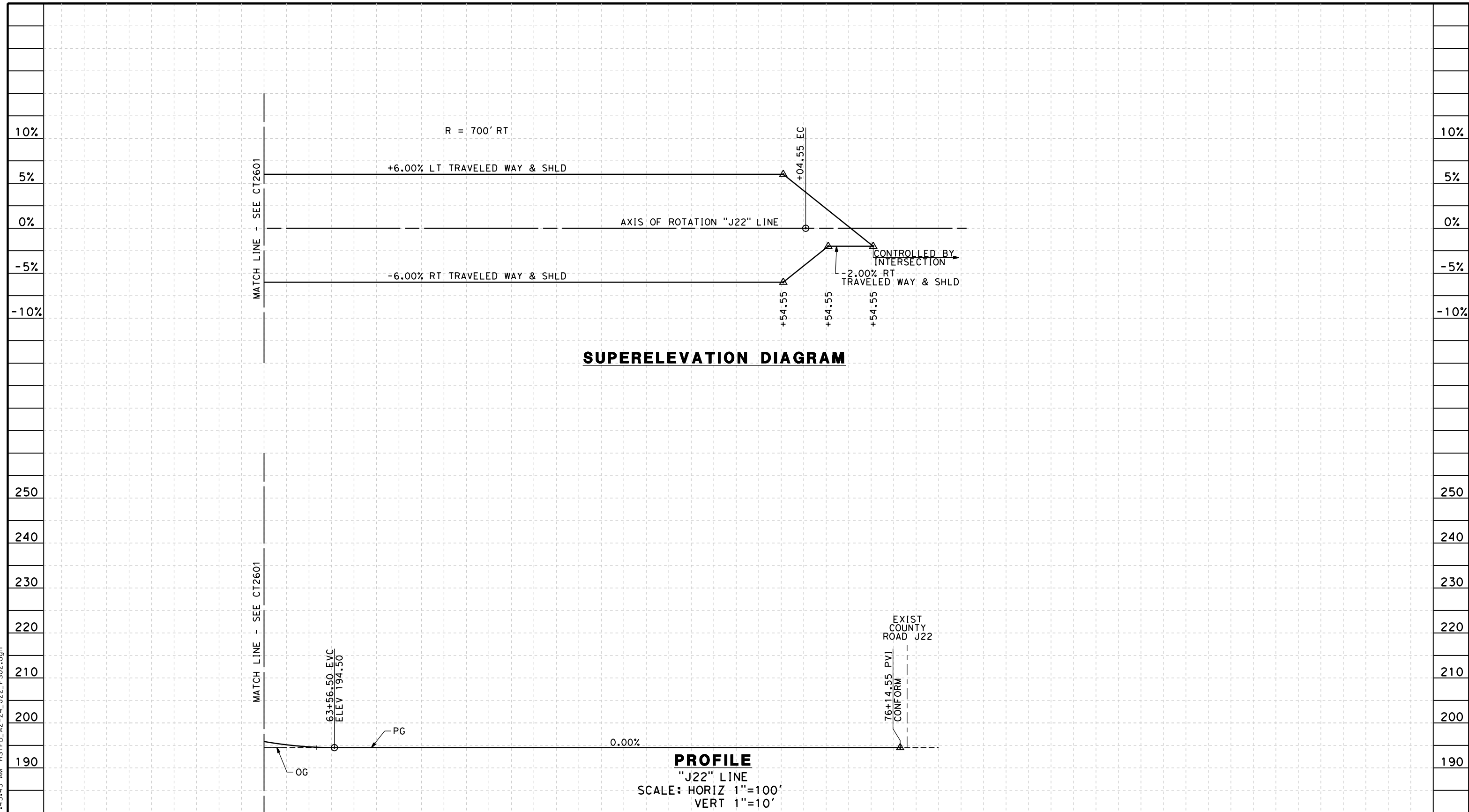
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
COUNTY RD J22

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2601
SCALE
AS SHOWN
SHEET NO.
8 OF 18

5/12/2011 11:43:37 AM HSTFB_A2-Z4_J22_PS01.dgn carlton_allen

5/12/2011 11:43:43 AM HSTFB_A2-Z4_J22_PS02.dgn



STATION	2	3	4	65	6	7	8	9	70	1	2	3	4	75	6	7	TOTAL
Exc																	
Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

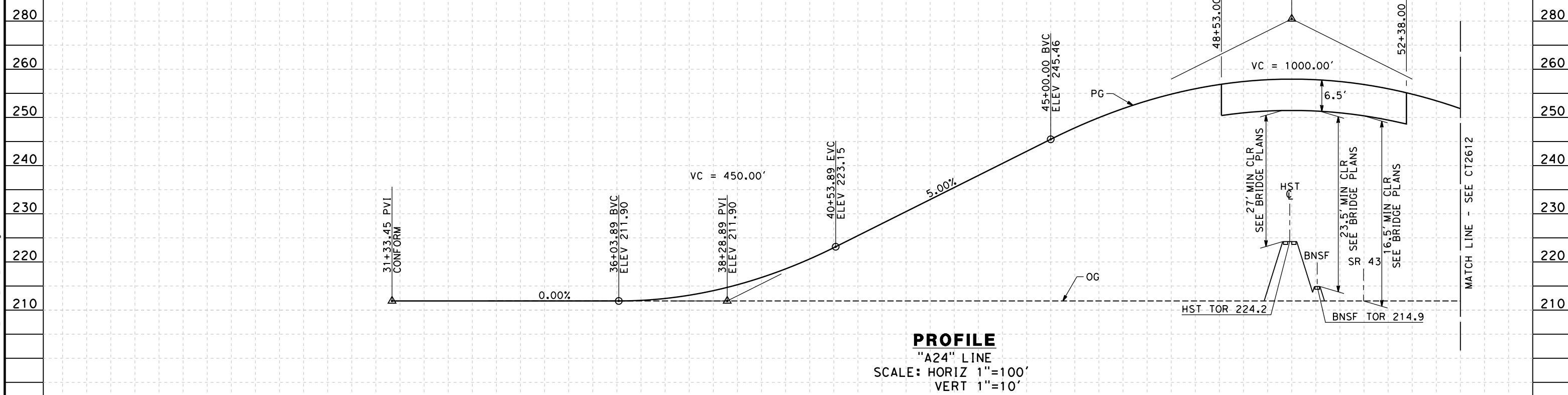
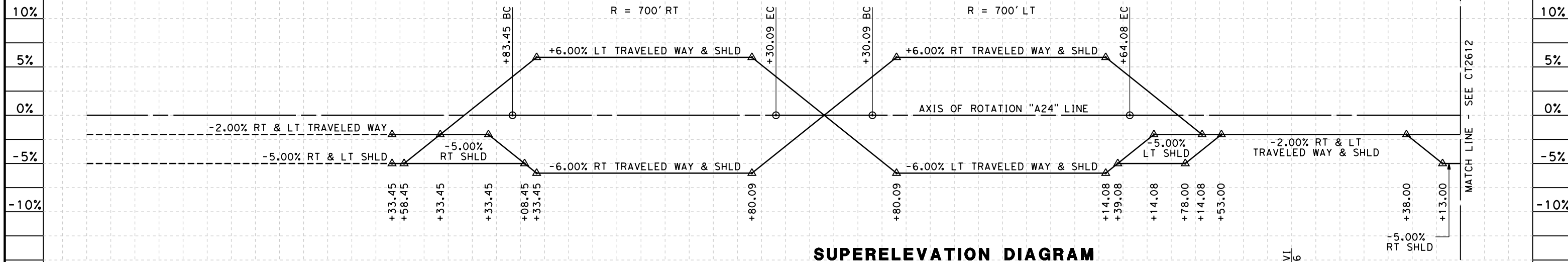


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
COUNTY RD J22

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2602
SCALE
AS SHOWN
SHEET NO.
9 OF 18

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' 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	29	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	TOTAL
Exc																											
Emb																											

DESIGNED BY	M. POLISCHUK
DRAWN BY	C. ALLEN
CHECKED BY	J. LABANOWSKI
IN CHARGE	G. HORTON
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



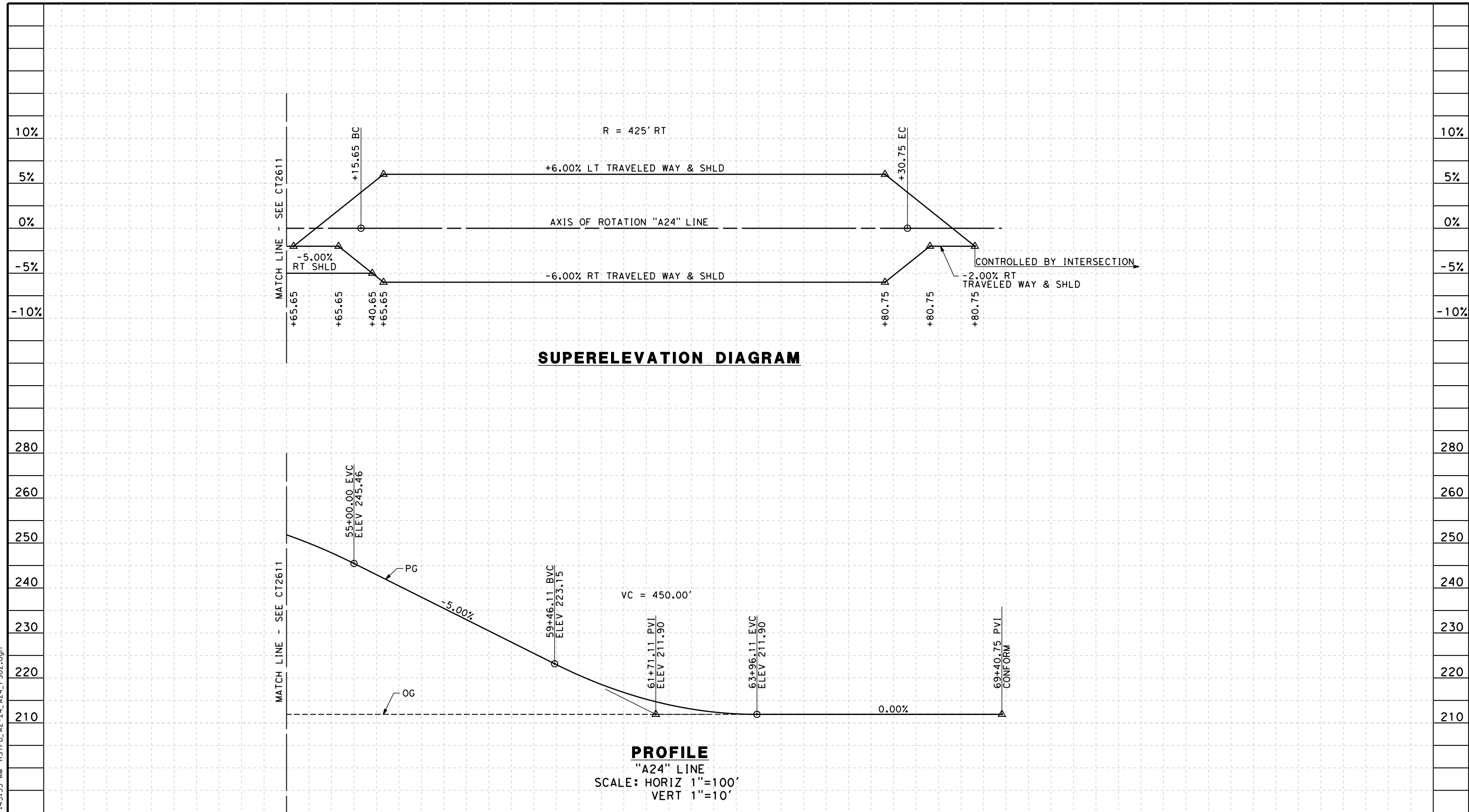
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 24

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2611
SCALE	AS SHOWN
SHEET NO.	10 OF 18

5/12/2011 11:43:48 AM HSTFB_A2-Z4_A24_PS01.dgn

5/12/2011 11:43:53 AM HSTFB_A2-Z4_A24_PS02.dgn



STATION	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	2	TOTAL	
Exc																						
Emb																						

DESIGNED BY	M. POLISCHUK
DRAWN BY	C. ALLEN
CHECKED BY	J. LABANOWSKI
IN CHARGE	G. HORTON
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

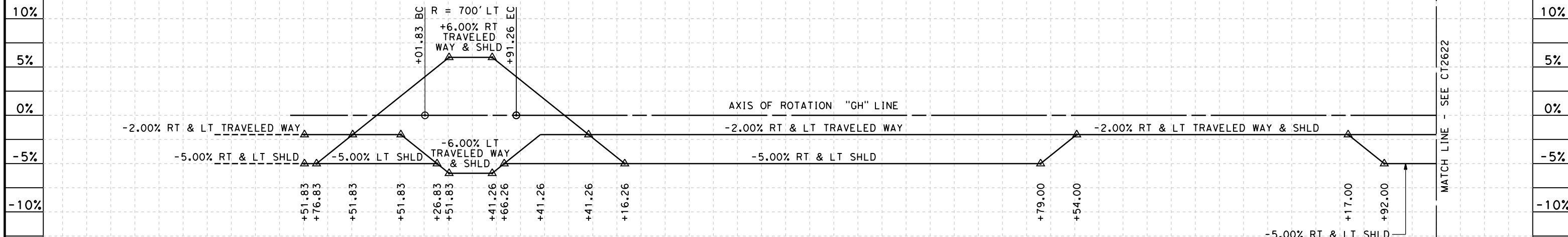
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2

GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 24

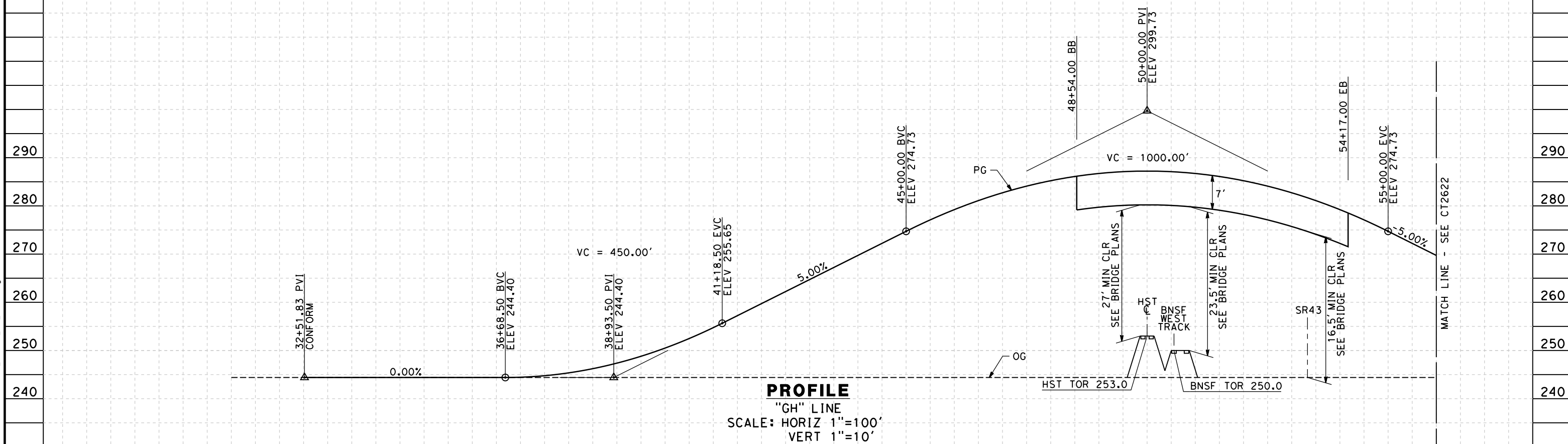
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2612
SCALE	AS SHOWN
SHEET NO.	11 OF 18

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' 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



SUPERELEVATION DIAGRAM



PROFILE

"GH" 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	3	4	55	6	TOTAL
Exc																												
Emb																												

DESIGNED BY	M. POLISCHUK
DRAWN BY	C. ALLEN
CHECKED BY	J. LABANOWSKI
IN CHARGE	G. HORTON
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



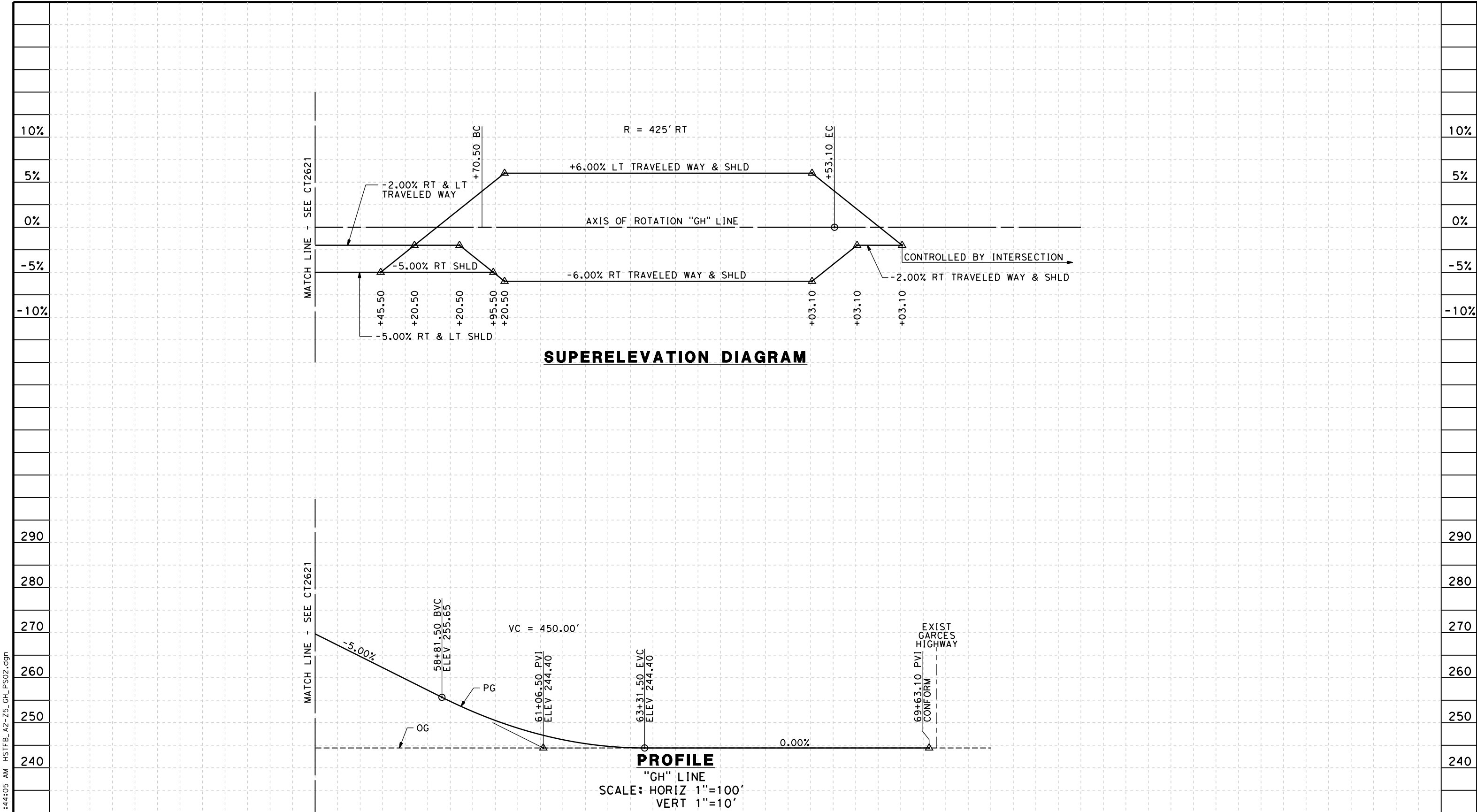
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
GARCES HWY

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2621
SCALE	AS SHOWN
SHEET NO.	12 OF 18

5/12/2011 11:43:59 AM HSTFB_A2-Z5_GH_PS01.dgn

5/12/2011 11:44:05 AM HSTFB_A2-Z5_GH_PS02.dgn



STATION	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	2	TOTAL
Exc																		
Emb																		

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



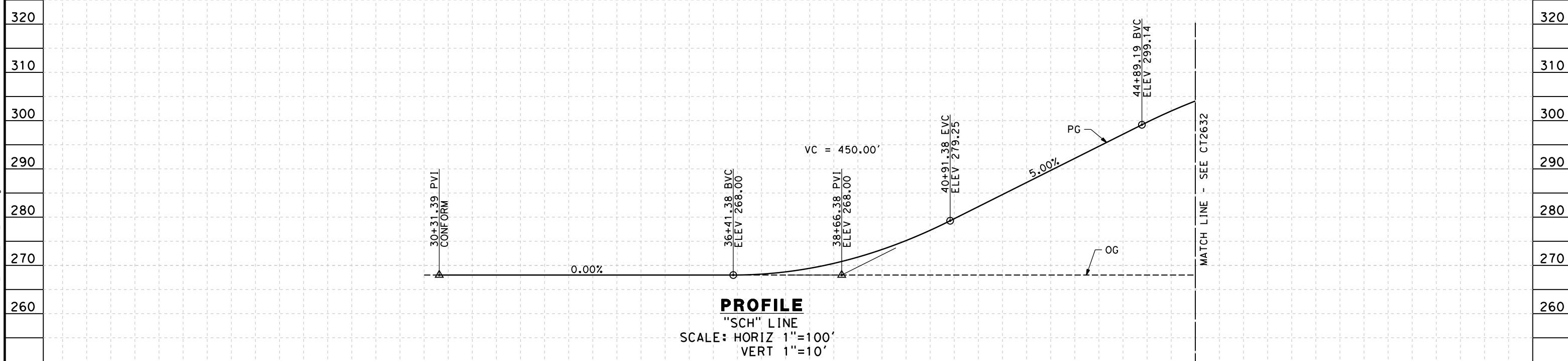
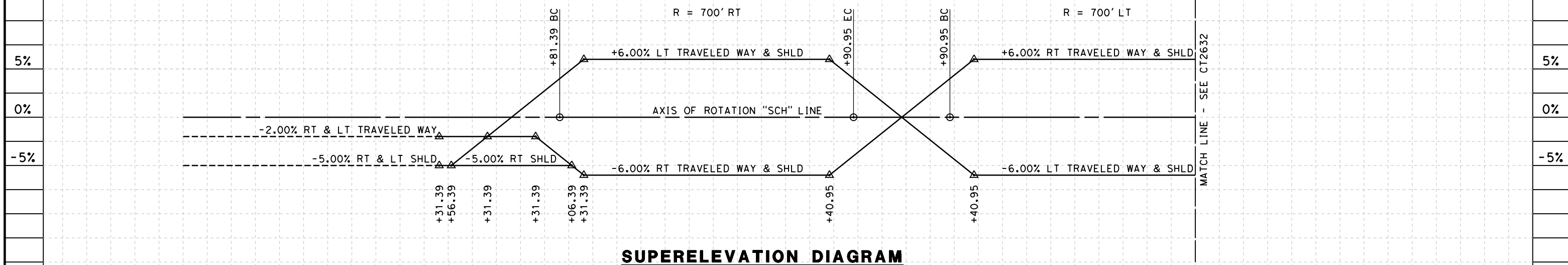
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
GARCES HWY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2622
SCALE
AS SHOWN
SHEET NO.
13 OF 18

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' FROM TOP OF RAIL.
3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5'.
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	TOTAL
Exc																		
Emb																		

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



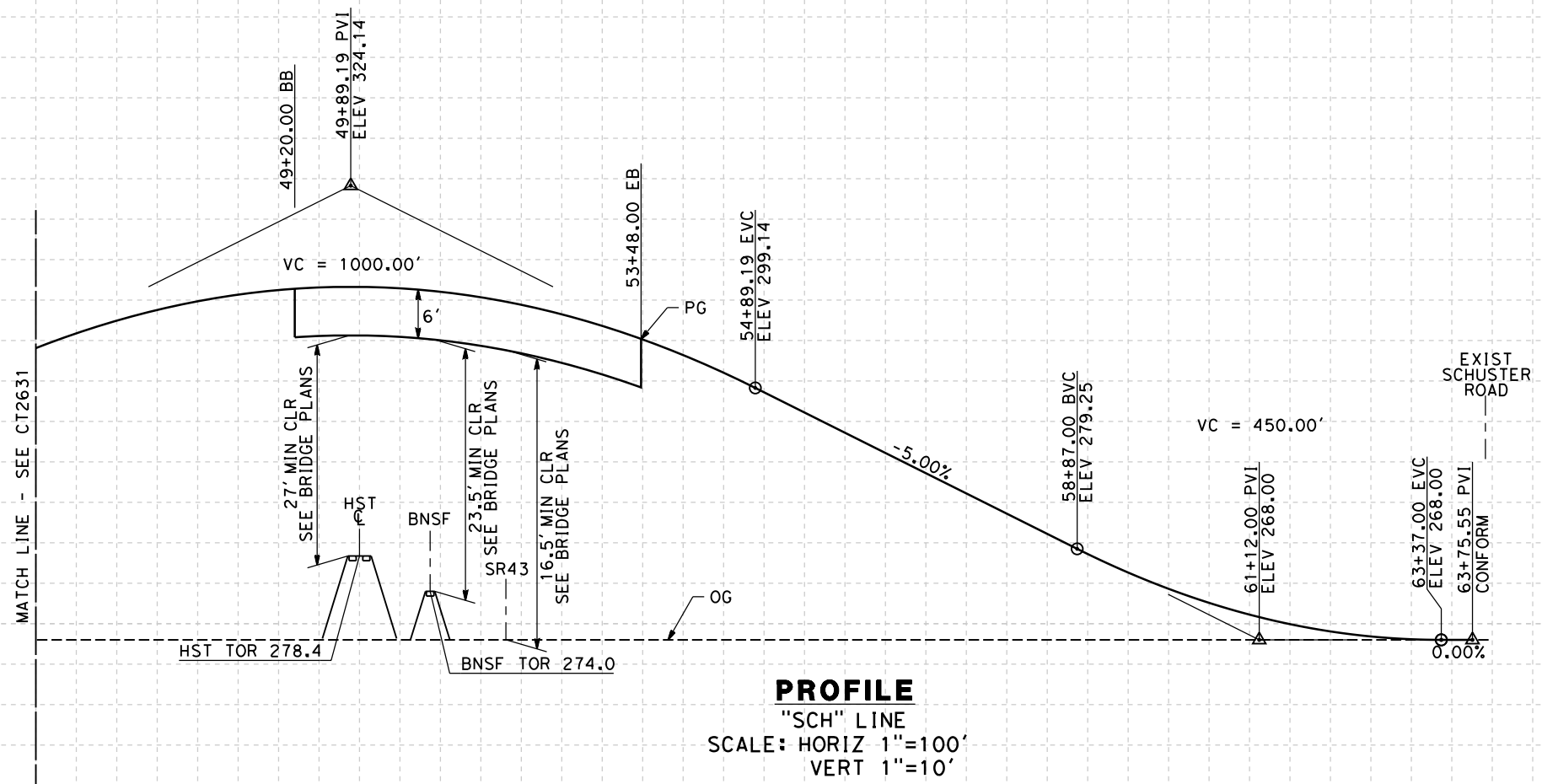
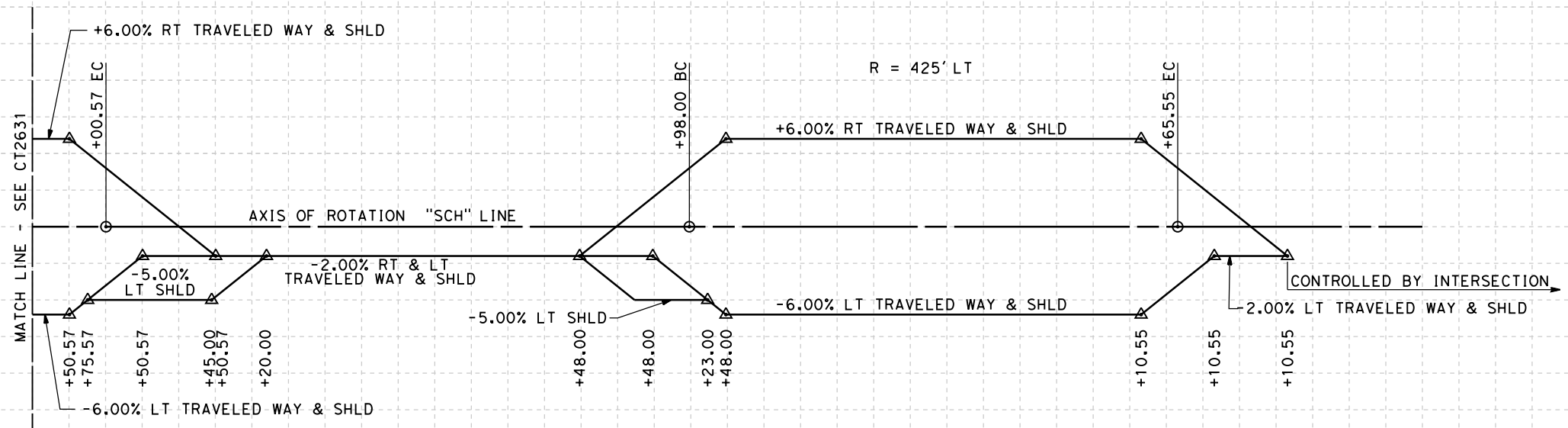
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
SCHUSTER RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2631
SCALE
AS SHOWN
SHEET NO.
14 OF 18

5/12/2011 11:44:13 AM HSTFB_A2-Z5_SCH_PS01.dgn

5/12/2011 11:44:19 AM HSTFB_A2-Z5_SCH_PS02.dgn



STATION	6	7	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	TOTAL	
Exc																						
Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK

DRAWN BY
C. ALLEN

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
SCHUSTER RD

CONTRACT NO.
HSR 06-0003

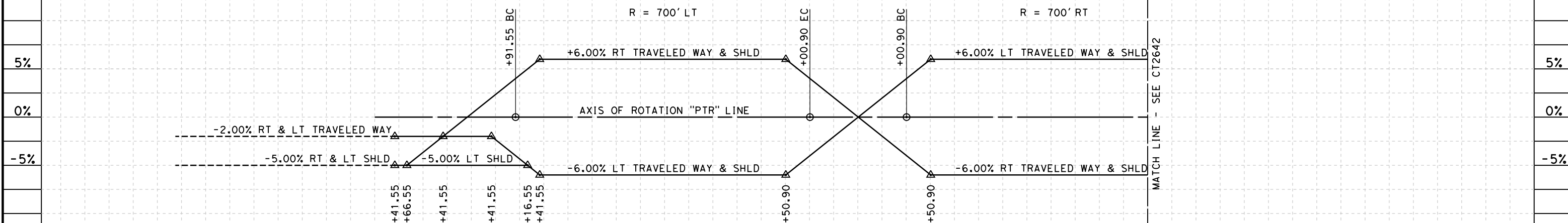
DRAWING NO.
CT2632

SCALE
AS SHOWN

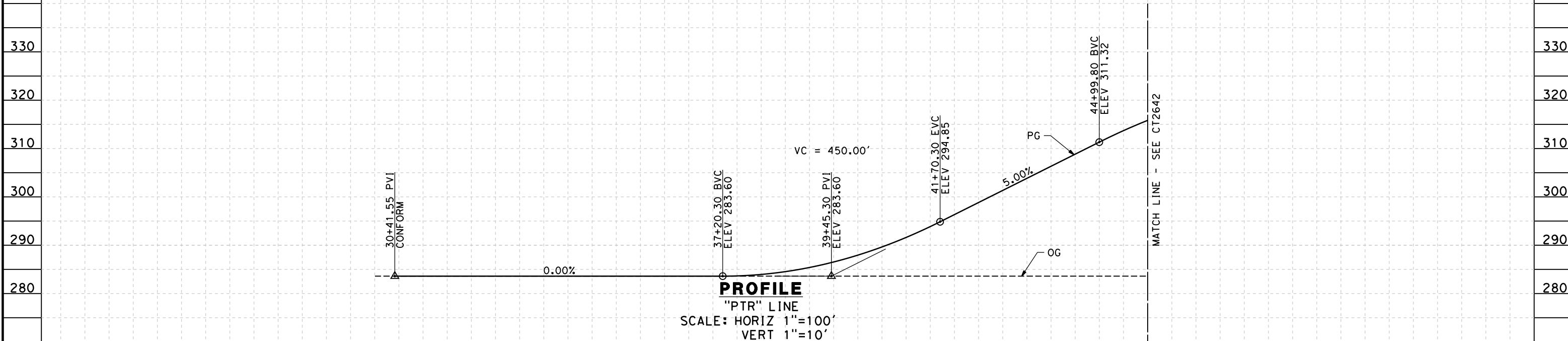
SHEET NO.
15 OF 18

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' 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



SUPERELEVATION DIAGRAM



PROFILE
"PTR" 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	TOTAL
Exc																		
Emb																		

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

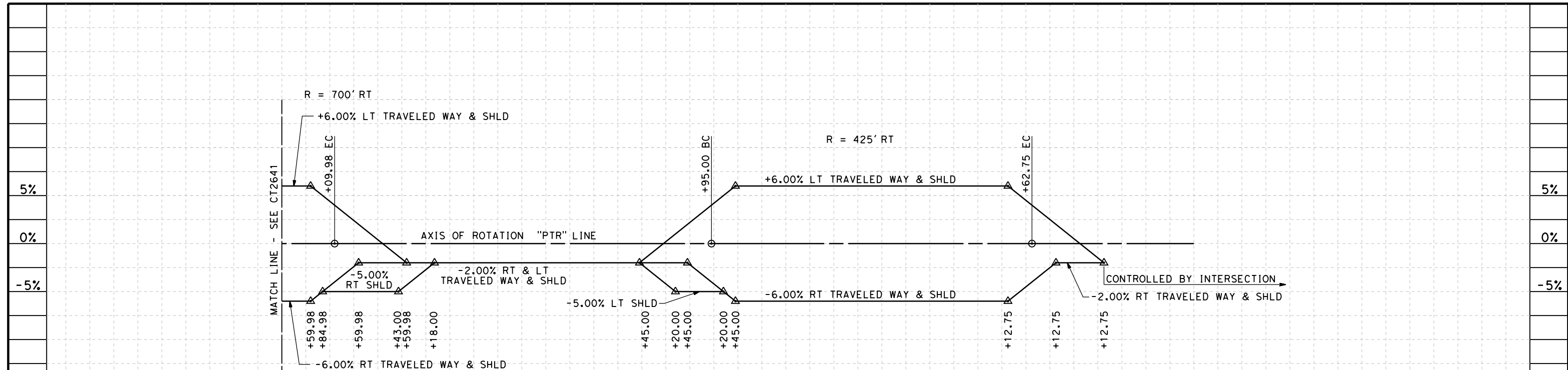


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
PETERSON RD

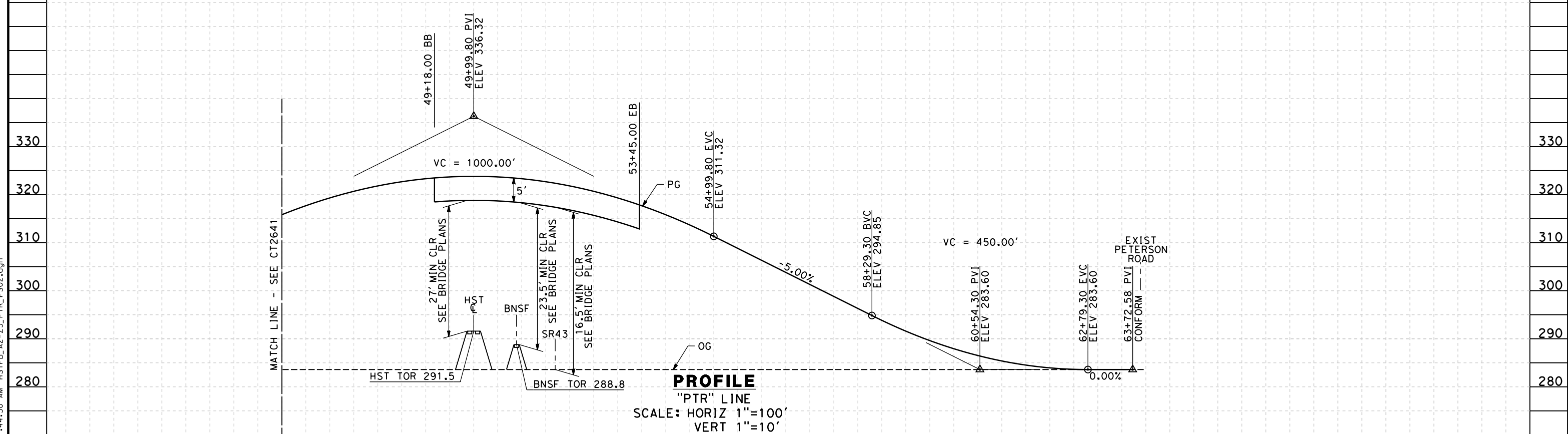
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2641
SCALE
AS SHOWN
SHEET NO.
16 OF 18

5/12/2011 11:44:24 AM HSTFB_A2-Z5_PTR_PS01.dgn

5/12/2011 11:44:30 AM HSTFB_A2-Z5_PTR_PS02.dgn



SUPERELEVATION DIAGRAM



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

STATION	6	7	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	TOTAL	
Exc																						
Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. POLISCHUK
DRAWN BY
C. ALLEN
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
PETERSON RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2642
SCALE
AS SHOWN
SHEET NO.
17 OF 18

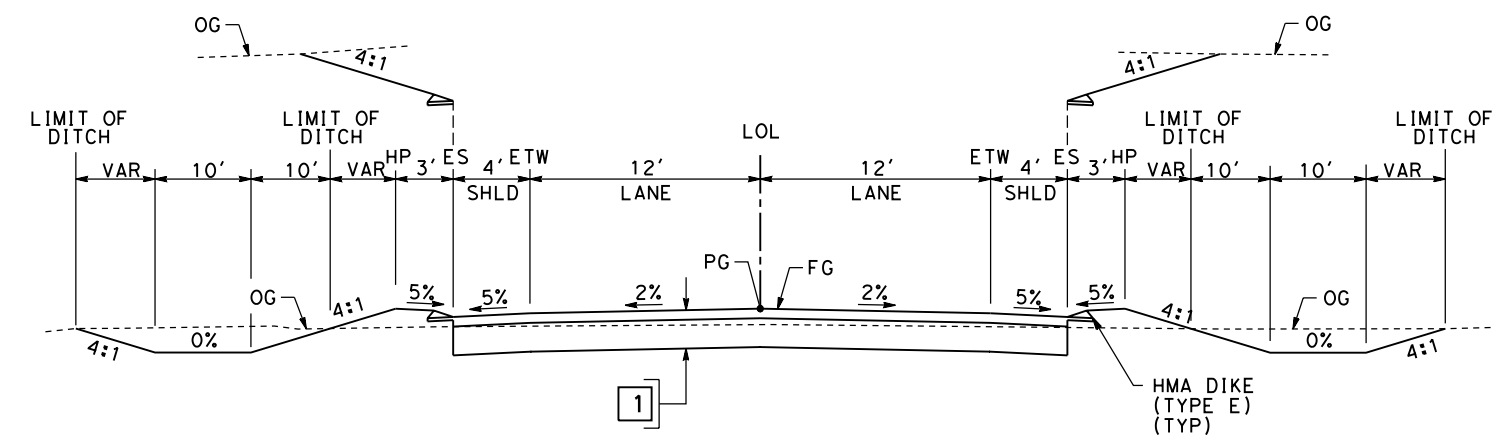
NOTES:

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

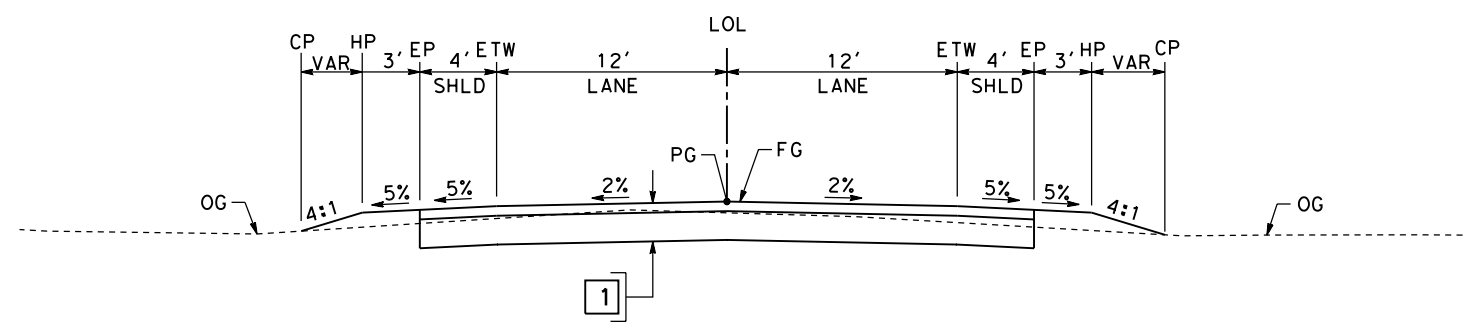
TYPICAL ROADWAY

- 1 0.30' HMA (TYPE A)
- 1.40' CL 2 AB



SECTION A

- "J22" 36+29.25 TO 48+60.00
- "J22" 53+45.00 TO 63+56.50
- "A24" 36+03.89 TO 48+53.00
- "A24" 52+38.00 TO 63+96.11
- "GH" 36+68.50 TO 48+54.00
- "GH" 54+17.00 TO 63+31.50
- "SCH" 36+41.38 TO 49+20.00
- "SCH" 53+48.00 TO 63+37.00
- "PTR" 37+20.30 TO 49+18.00
- "PTR" 53+45.00 TO 62+79.30



SECTION B

- "J22" 34+24.00 TO 36+29.25
- "J22" 63+56.50 TO 76+14.55
- "A24" 31+33.45 TO 36+03.89
- "A24" 63+96.11 TO 69+40.75
- "GH" 32+51.83 TO 36+68.50
- "GH" 63+31.50 TO 69+63.10
- "SCH" 30+31.39 TO 36+41.38
- "SCH" 63+37.00 TO 63+75.55
- "PTR" 30+41.55 TO 37+20.30
- "PTR" 62+79.30 TO 63+72.58

carlton_allen 5/12/2011 11:44:37 AM HSTFB_A2-Z4_X01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 THROUGH ALLENSWORTH SUBSECTION
 ALIGNMENT A2
 ROADWAY/GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003

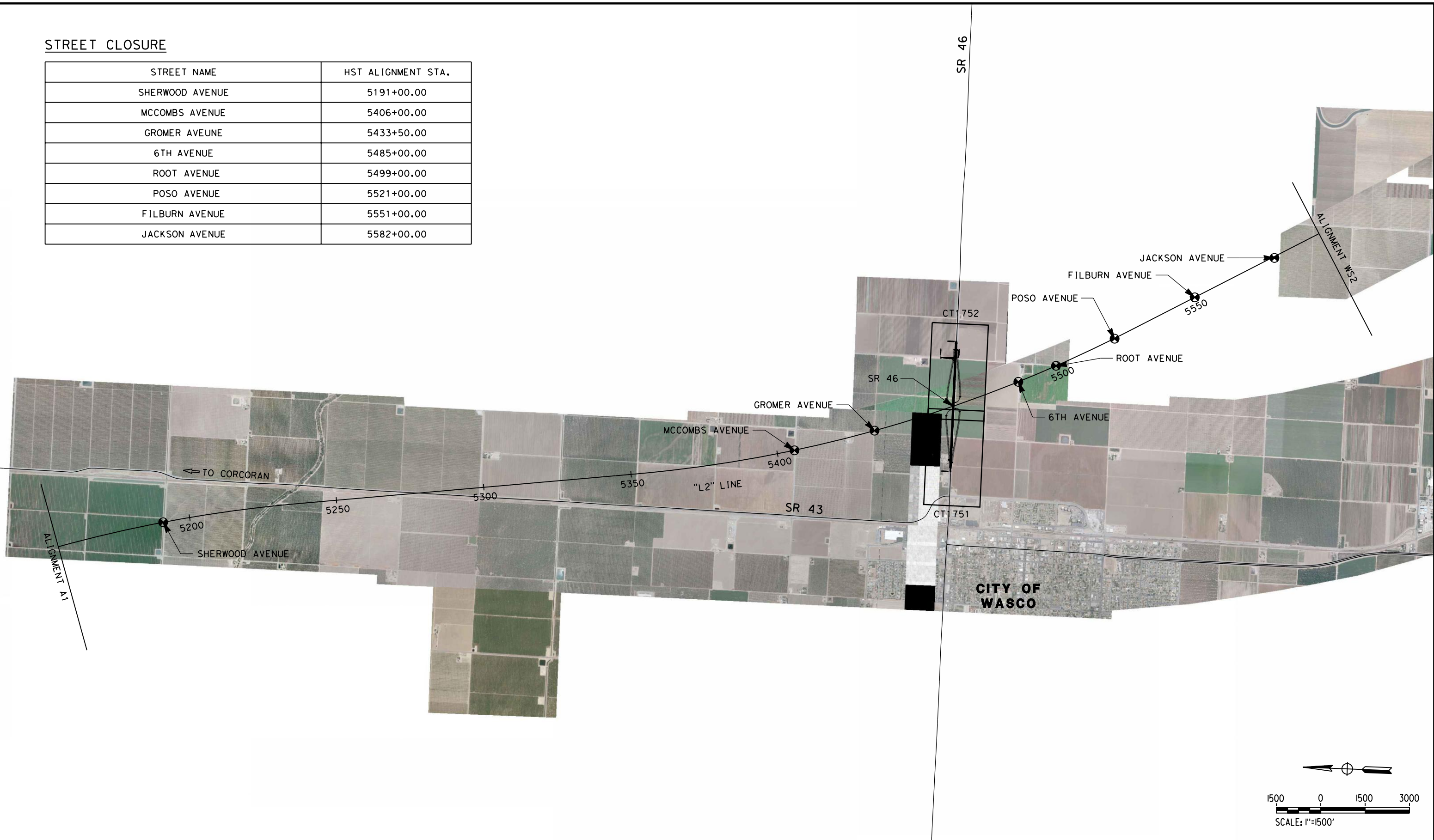
DRAWING NO.
CT3080

SCALE
AS SHOWN

SHEET NO.
18 OF 18

STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
SHERWOOD AVENUE	5191+00.00
MCCOMBS AVENUE	5406+00.00
GROMER AVEUNE	5433+50.00
6TH AVENUE	5485+00.00
ROOT AVENUE	5499+00.00
POSO AVENUE	5521+00.00
FILBURN AVENUE	5551+00.00
JACKSON AVENUE	5582+00.00



carlton_allen 5/12/2011 11:45:57 AM HSTFB_L2_K01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
POSO CREEK SUBSECTION
ALIGNMENT L2
ROADWAY/GRADE SEPARATION
KEY MAP

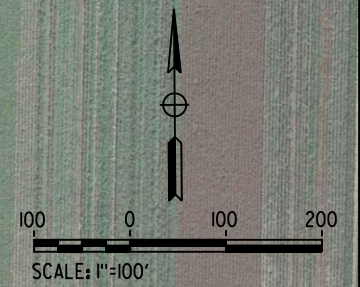
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0140
SCALE
AS SHOWN
SHEET NO.
1 OF 7

5/12/2011 11:46:25 AM HSTFB_L2_SR46_L01.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'39"E	4400.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
POSO CREEK SUBSECTION
ALIGNMENT L2
GRADE SEPARATION LAYOUT
STATE ROUTE 46

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1751
SCALE
AS SHOWN
SHEET NO.
2 OF 7

5/12/2011 11:46:47 AM HSTFB_L2_SR46_L02.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'39"E	4400.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

POSO CREEK SUBSECTION
ALIGNMENT L2
GRADE SEPARATION LAYOUT
STATE ROUTE 46

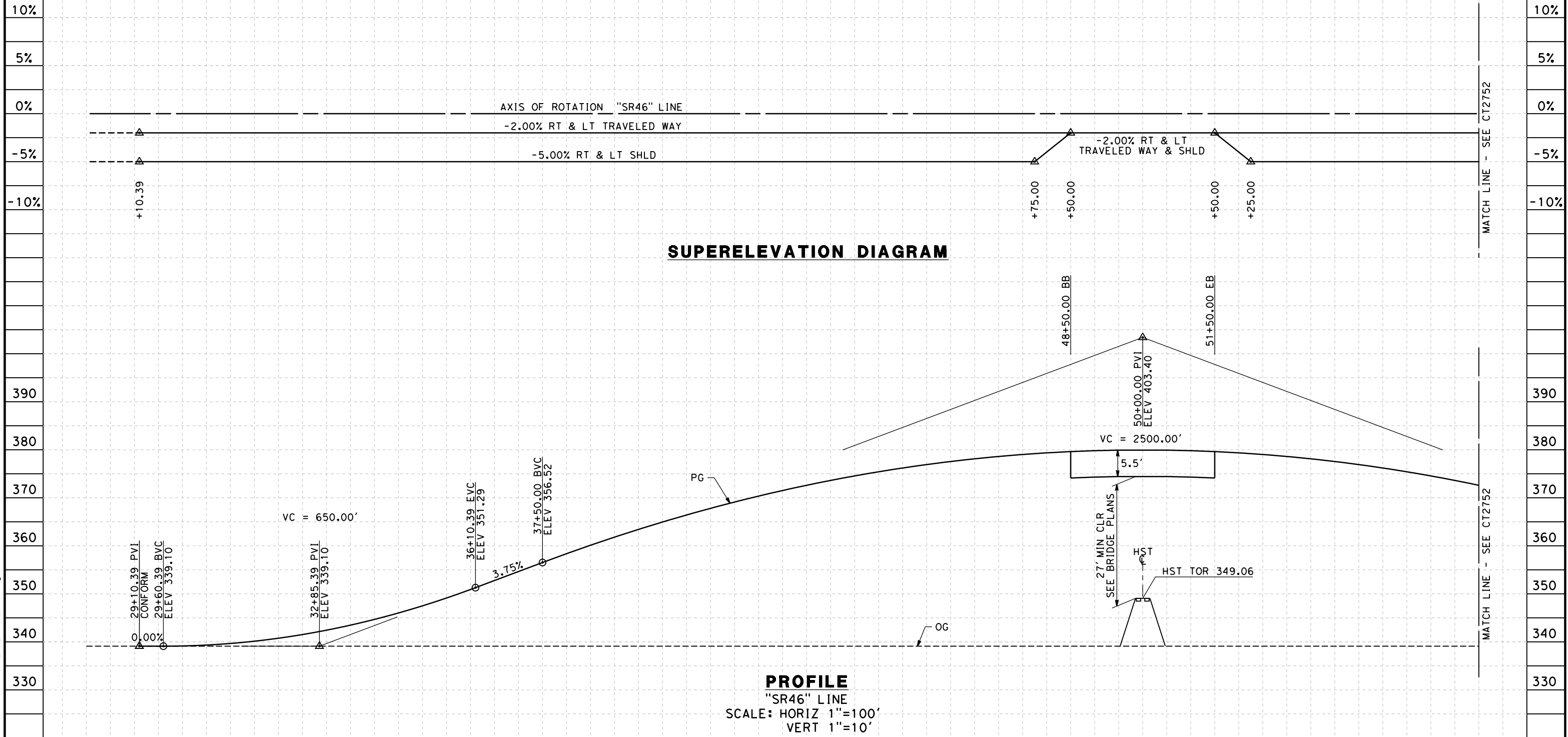
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1752

SCALE
AS SHOWN

SHEET NO.
3 OF 7

- NOTES:
 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 2. VERTICAL DESIGN SPEED = 65 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	6	7	TOTAL
Exc																														
Emb																														

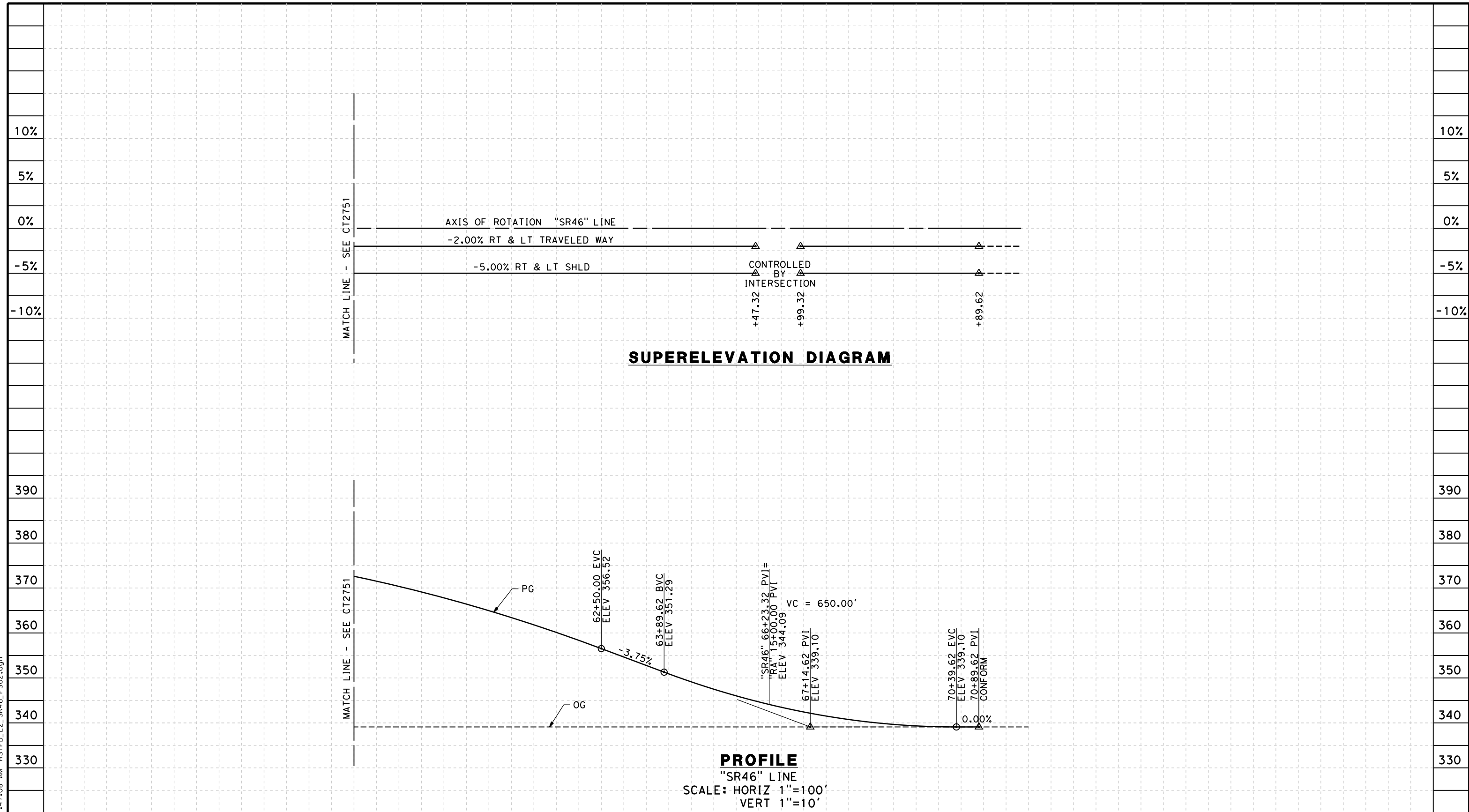
DESIGNED BY C. ALLEN	RECORD SET 15% DESIGN SUBMISSION		
DRAWN BY M. POLISCHUK	NOT FOR CONSTRUCTION		
CHECKED BY J. LABANOWSKI			
IN CHARGE G. HORTON			
DATE 05/13/11			

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 POSO CREEK SUBSECTION
 ALIGNMENT L2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2751
SCALE AS SHOWN
SHEET NO. 4 OF 7

5/12/2011 11:47:00 AM HSTFB_L2_SR46_P501.dgn

5/12/2011 11:47:08 AM HSTFB_L2_SR46_P502.dgn



STATION	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



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

POSO CREEK SUBSECTION
 ALIGNMENT L2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 STATE ROUTE 46

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2752
 SCALE
AS SHOWN
 SHEET NO.
5 OF 7

- NOTES:
 1. VERTICAL DESIGN SPEED = 35 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 3. SEE SHEET CT1752 FOR LAYOUT VIEW

10%

5%

0%

-5%

-10%

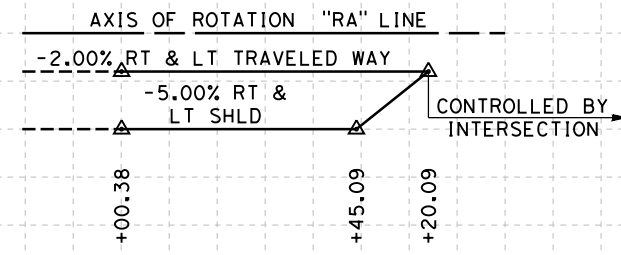
10%

5%

0%

-5%

-10%



SUPERELEVATION DIAGRAM

390

380

370

360

350

340

330

390

380

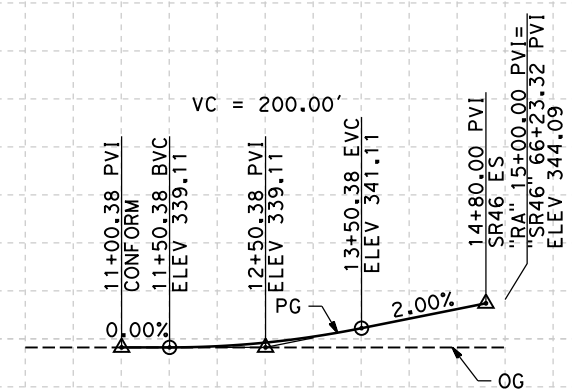
370

360

350

340

330



PROFILE

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

STATION

10 1 2 3 4 15

TOTAL

Exc
Emb

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 POSO CREEK SUBSECTION
 ALIGNMENT L2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 ROOT AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2753
 SCALE
AS SHOWN
 SHEET NO.
6 OF 7

5/12/2011 11:47:15 AM HSTFB_L2_RA_PS01.dgn

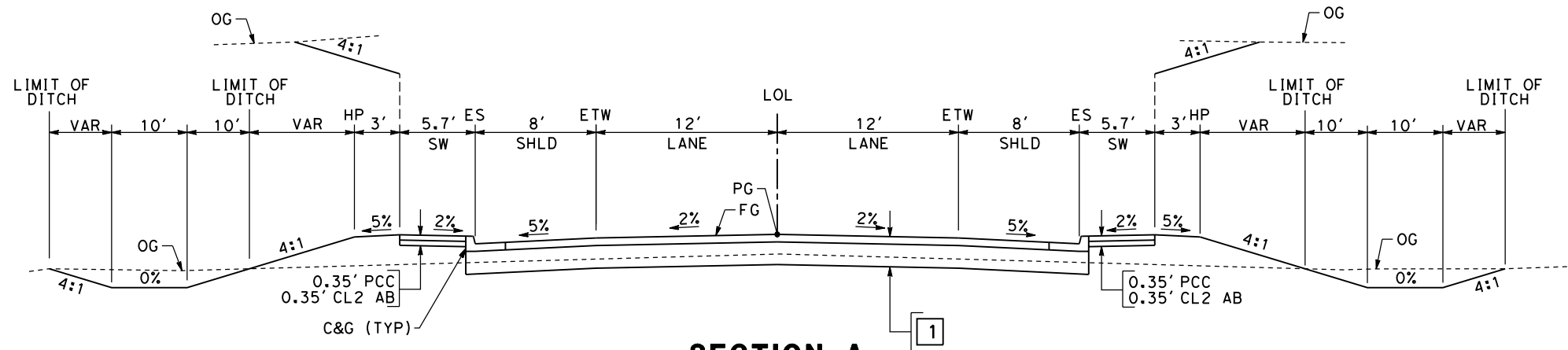
NOTES:

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

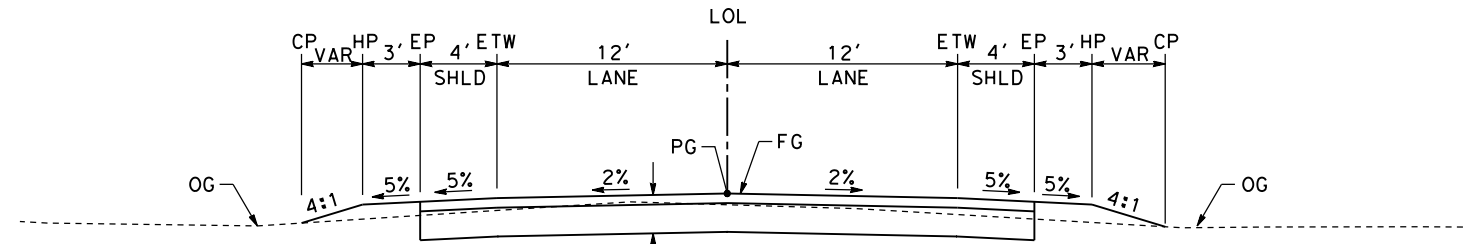
SR 46
 1 0.45' HMA (TYPE A)
 1.95' CL 2 AB

TYPICAL ROADWAY
 2 0.30' HMA (TYPE A)
 1.40' CL 2 AB



SECTION A

"SR46" 29+10.39 TO 48+50.00
 "SR46" 51+50.00 TO 70+89.62



SECTION B

"RA" 11+00.38 TO 15+00.00

carlton_allen 5/12/2011 11:47:22 AM HSTFB_L2_X01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

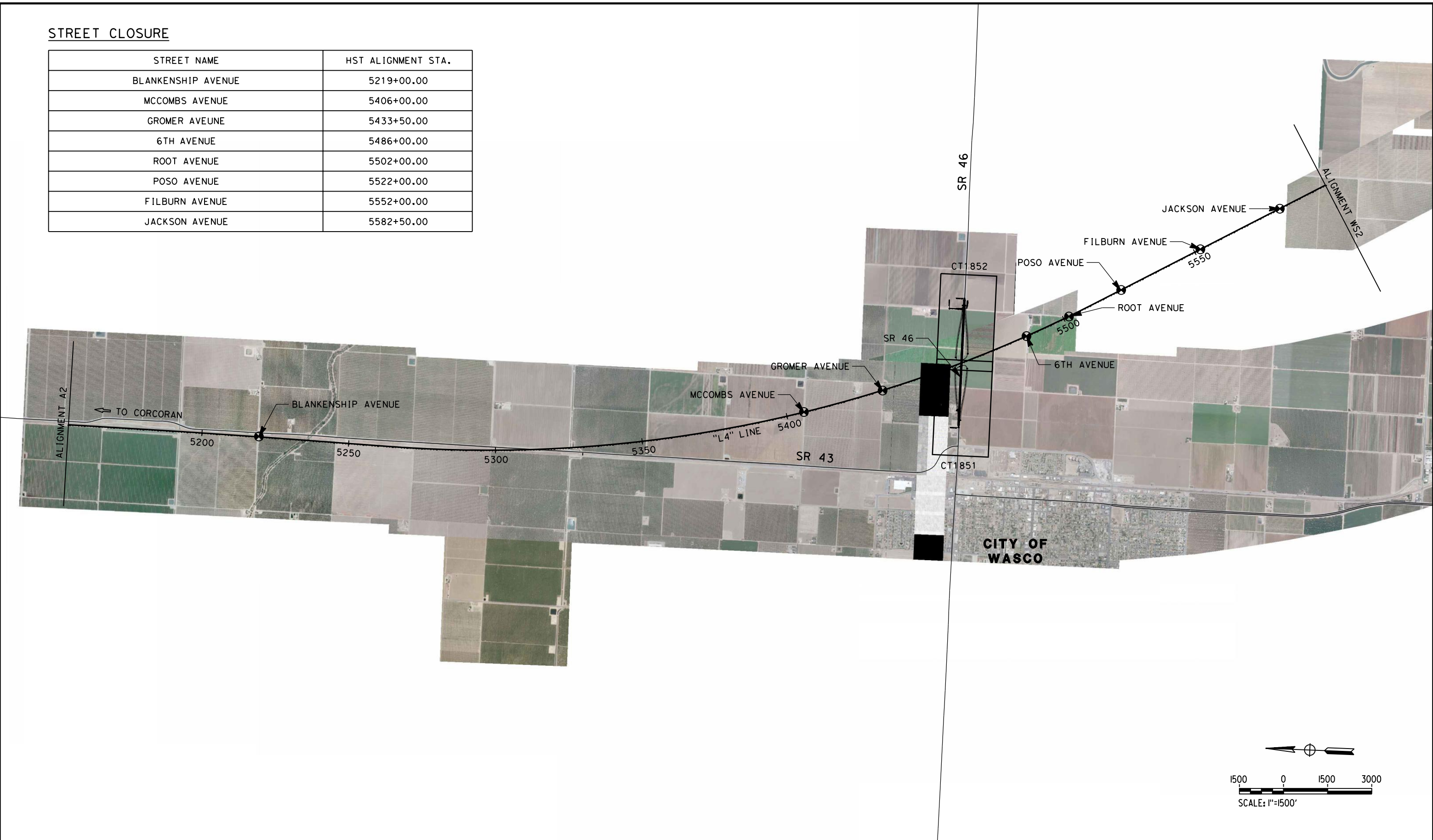


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 POSO CREEK SUBSECTION
 ALIGNMENT L2
 ROADWAY/GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT3100
 SCALE
AS SHOWN
 SHEET NO.
7 OF 7

STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
BLANKENSHIP AVENUE	5219+00.00
MCCOMBS AVENUE	5406+00.00
GROMER AVEUNE	5433+50.00
6TH AVENUE	5486+00.00
ROOT AVENUE	5502+00.00
POSO AVENUE	5522+00.00
FILBURN AVENUE	5552+00.00
JACKSON AVENUE	5582+50.00



carlton_allen 5/12/2011 11:48:07 AM HSTFB_L4_K01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
POSO CREEK SUBSECTION
ALIGNMENT L4
ROADWAY/GRADE SEPARATION
KEY MAP

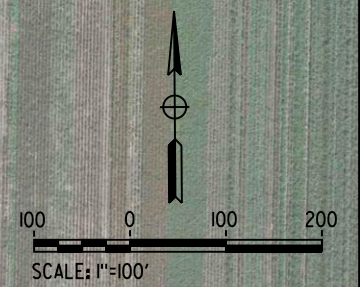
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0160
SCALE
AS SHOWN
SHEET NO.
1 OF 7

5/12/2011 11:48:37 AM HSTFB_L4_SR46_L01.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'39"E	4400.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

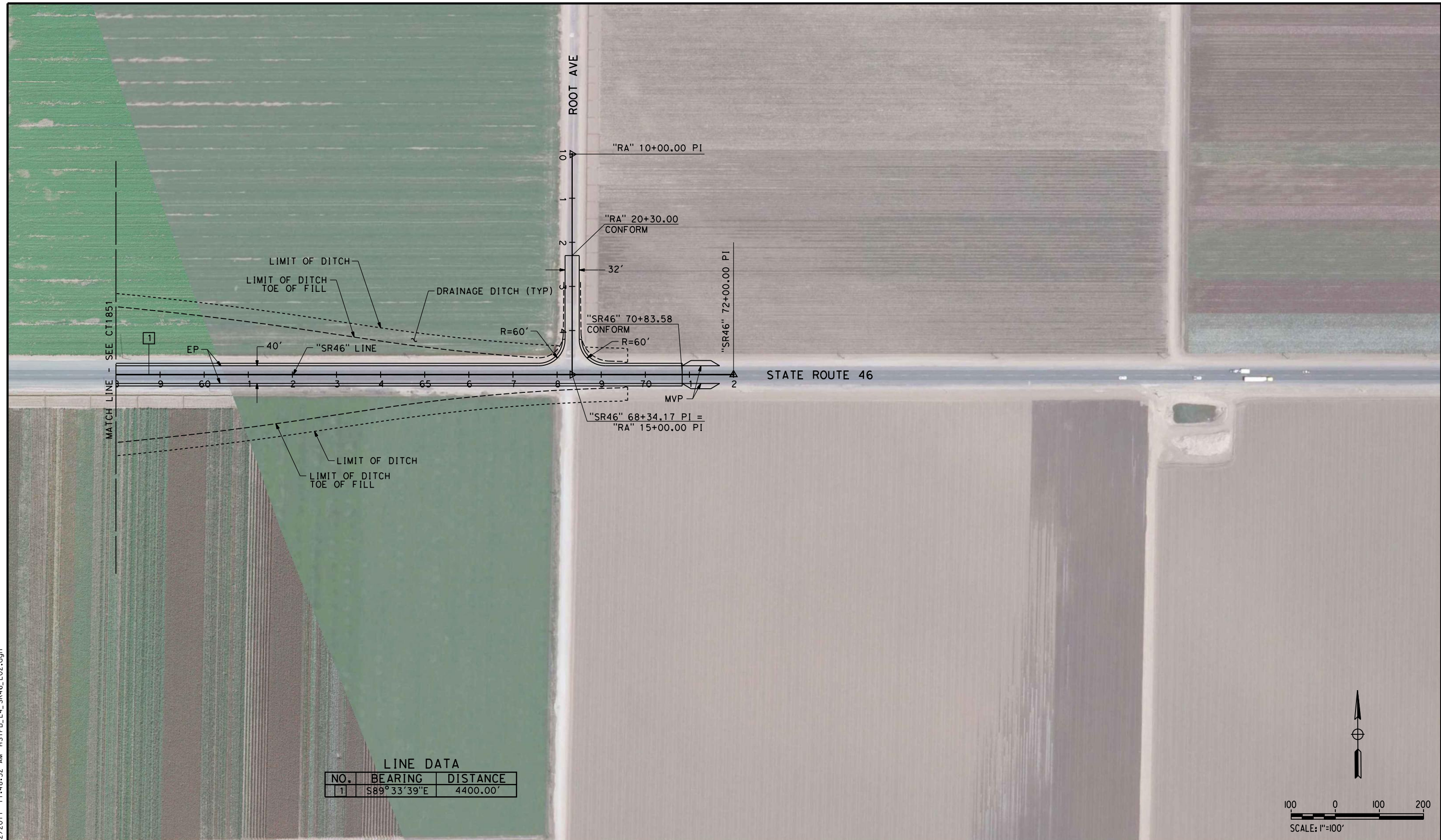
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEPARATION LAYOUT
STATE ROUTE 46

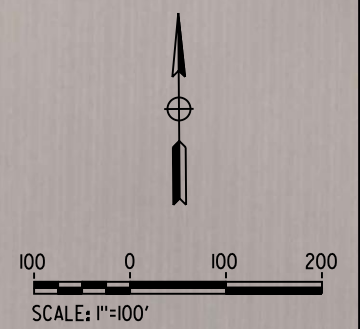
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1851
SCALE
AS SHOWN
SHEET NO.
2 OF 7

carlton_allen 5/12/2011 11:48:52 AM HSTFB_L4_SR46_L02.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'39"E	4400.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEPARATION LAYOUT
STATE ROUTE 46

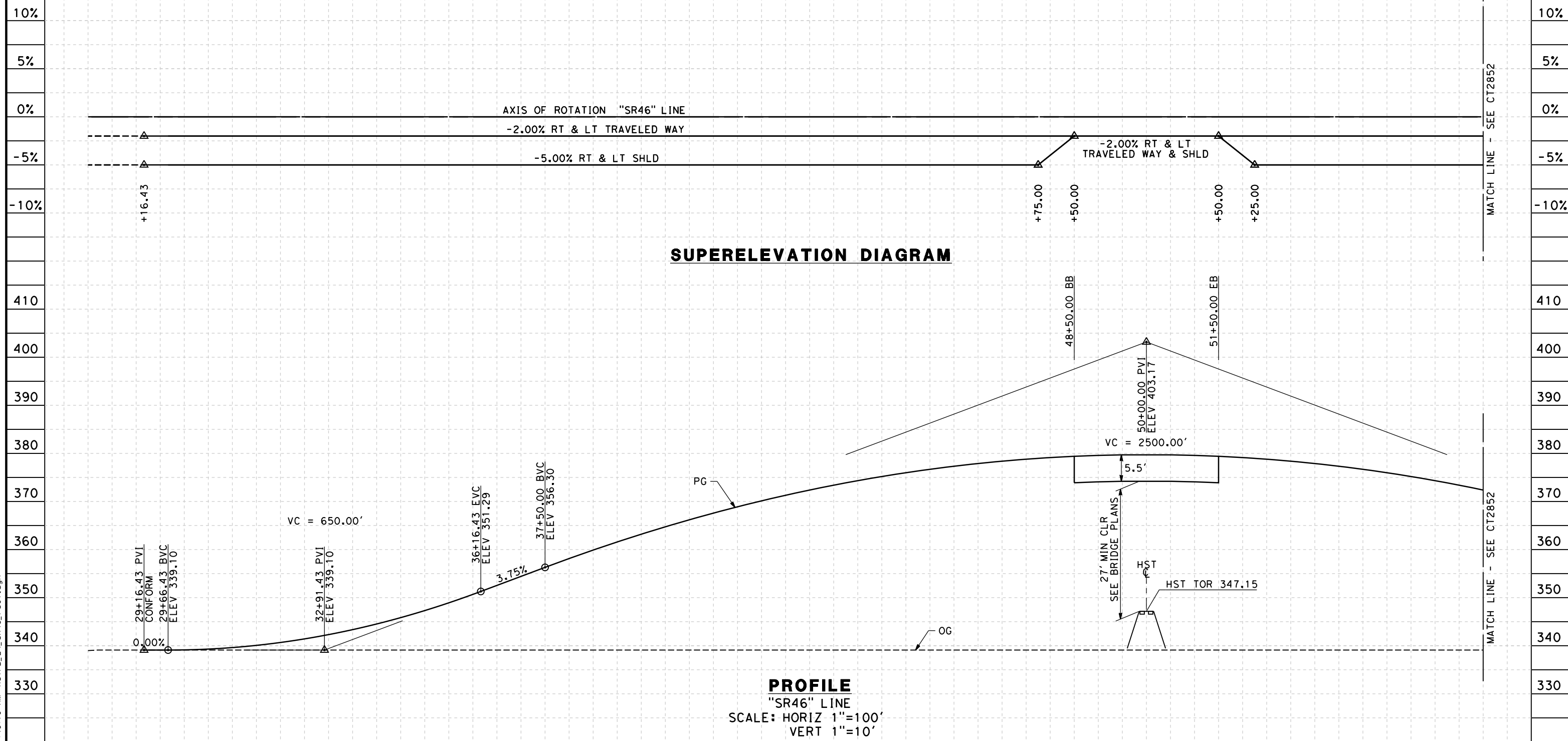
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1852

SCALE
AS SHOWN

SHEET NO.
3 OF 7

- NOTES:
 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 2. VERTICAL DESIGN SPEED = 65 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	6	7	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

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

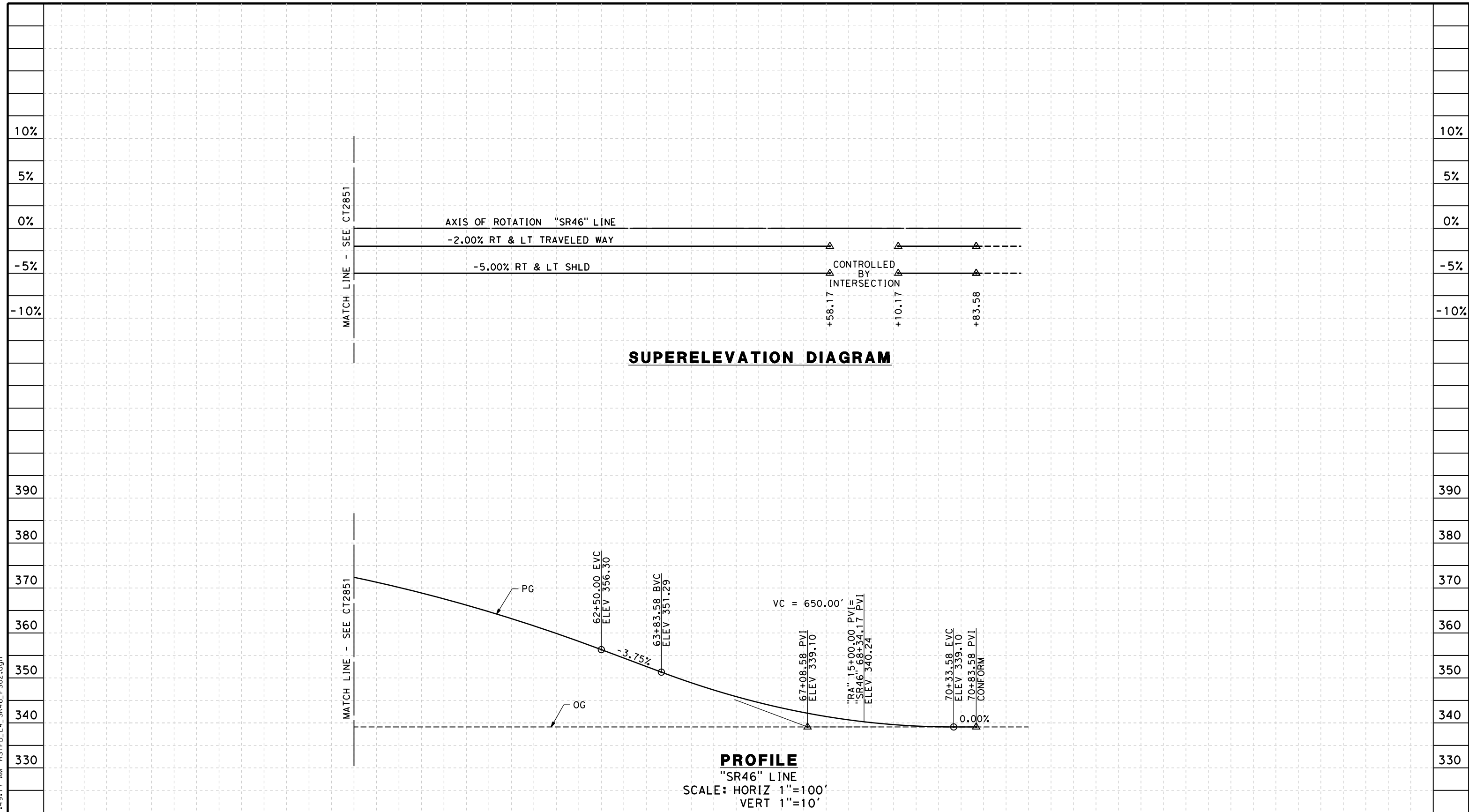


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 POSO CREEK SUBSECTION
 ALIGNMENT L4
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 STATE ROUTE 46

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2851
 SCALE
AS SHOWN
 SHEET NO.
4 OF 7

5/12/2011 11:49:10 AM HSTFB_L4_SR46_P501.dgn

5/12/2011 11:49:17 AM HSTFB_L4_S46_P502.dgn



STATION	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 46

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2852

SCALE
AS SHOWN

SHEET NO.
5 OF 7

- NOTES:
1. VERTICAL DESIGN SPEED = 35 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 3. SEE SHEET CT1852 FOR LAYOUT VIEW

10%

5%

0%

-5%

-10%

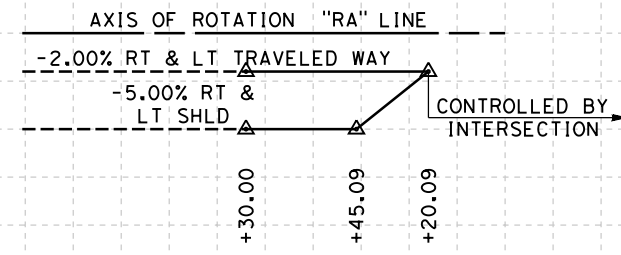
10%

5%

0%

-5%

-10%



SUPERELEVATION DIAGRAM

390

380

370

360

350

340

330

390

380

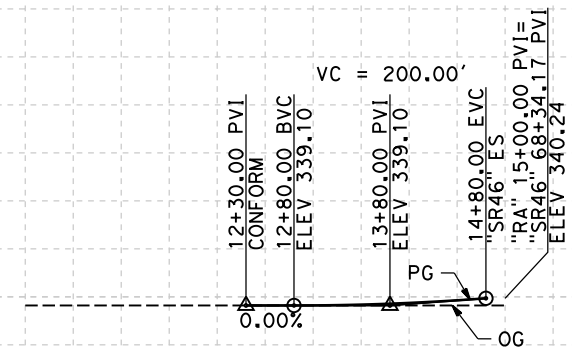
370

360

350

340

330



PROFILE

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

STATION

10 1 2 3 4 15

TOTAL

Exc
Emb

5/12/2011 11:49:25 AM HSTFB_L4_RA_PS01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
ROOT AVE

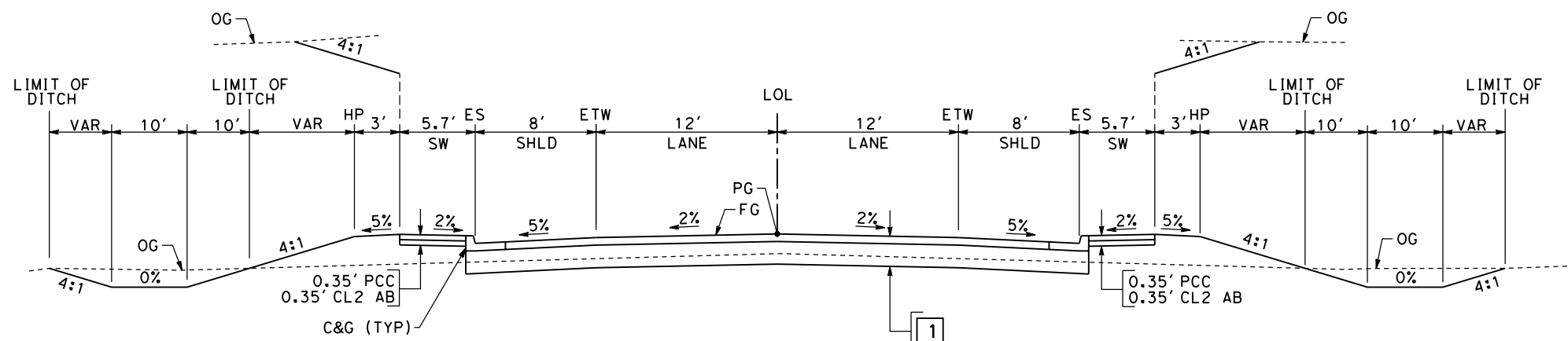
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2853
SCALE
AS SHOWN
SHEET NO.
6 OF 7

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.

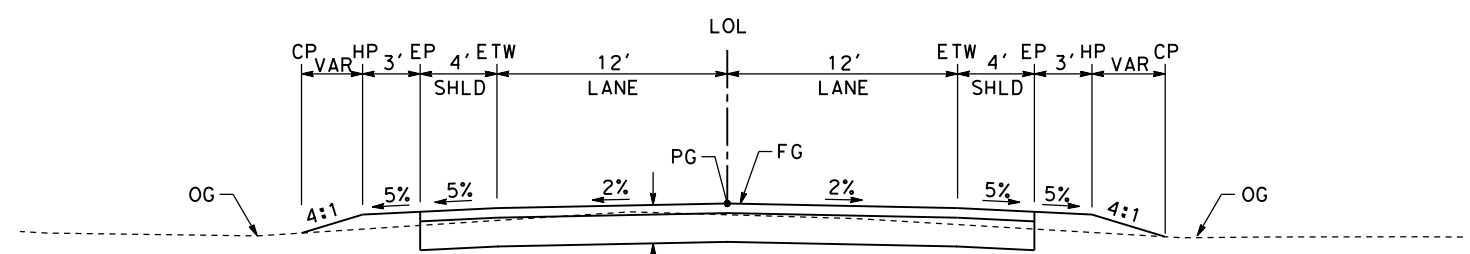
STRUCTURAL SECTIONS

- SR 46**
- 1 0.45' HMA (TYPE A)
1.95' CL 2 AB
- TYPICAL ROADWAY**
- 2 0.30' HMA (TYPE A)
1.40' CL 2 AB



SECTION A

"SR46" 29+16.43 TO 48+50.00
"SR46" 51+50.00 TO 70+83.58



SECTION B

"RA" 12+30.00 TO 15+00.00

carlton_allen 5/12/2011 11:49:32 AM HSTFB_L4_X01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

POSO CREEK SUBSECTION
ALIGNMENT L4
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

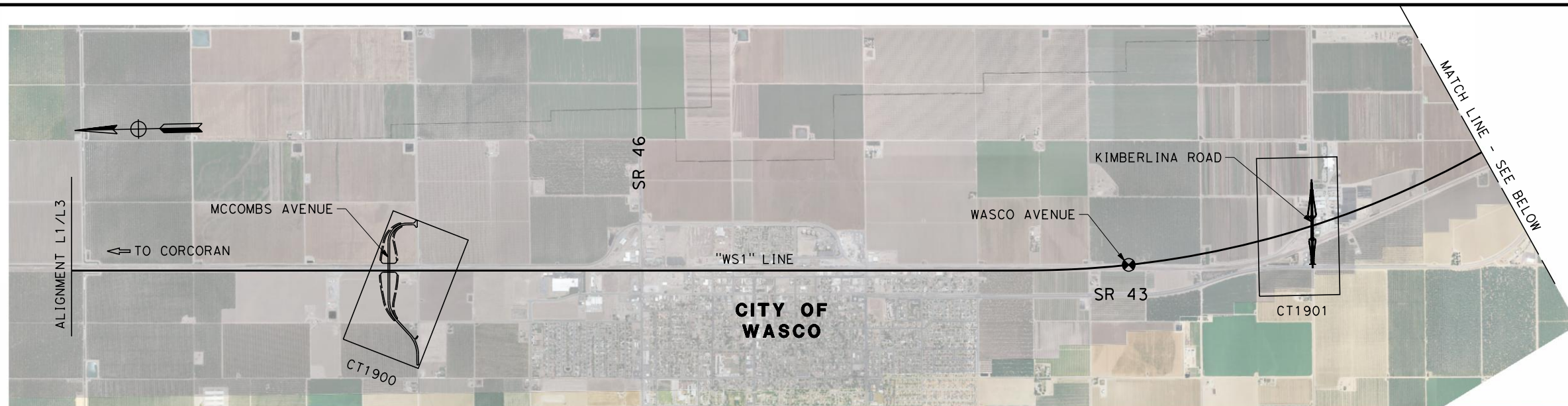
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT3120

SCALE
AS SHOWN

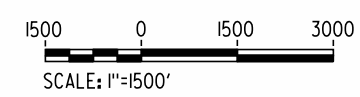
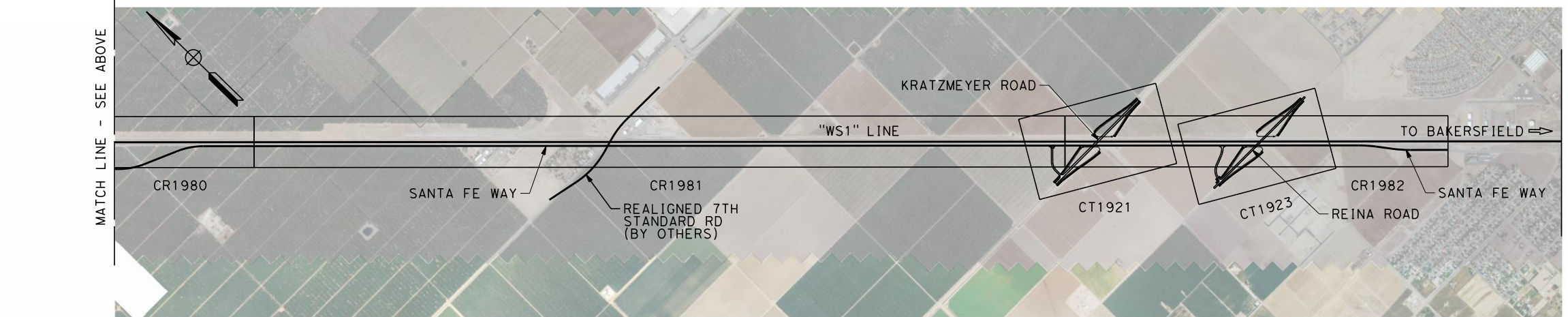
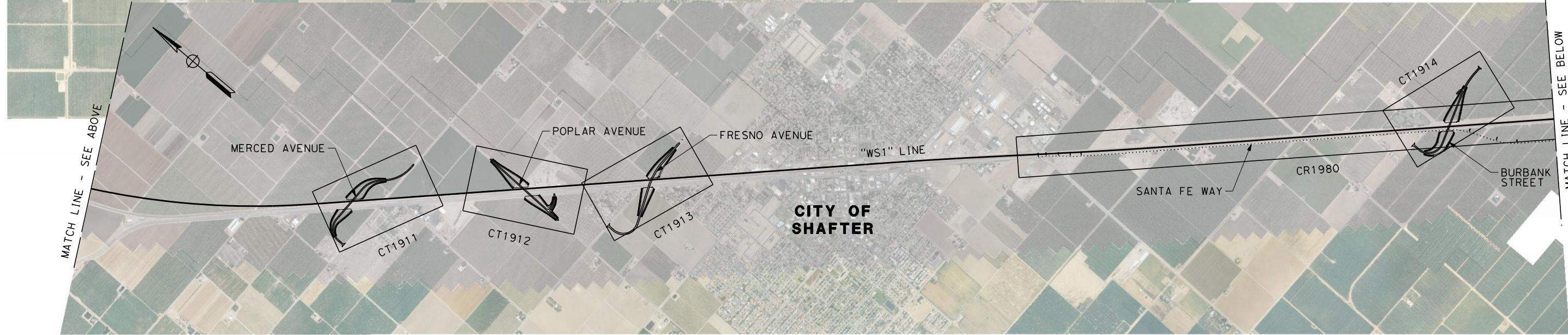
SHEET NO.
7 OF 7

6/28/2011 3:52:25 PM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-0170.dgn



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
WASCO AVENUE	5672+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
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

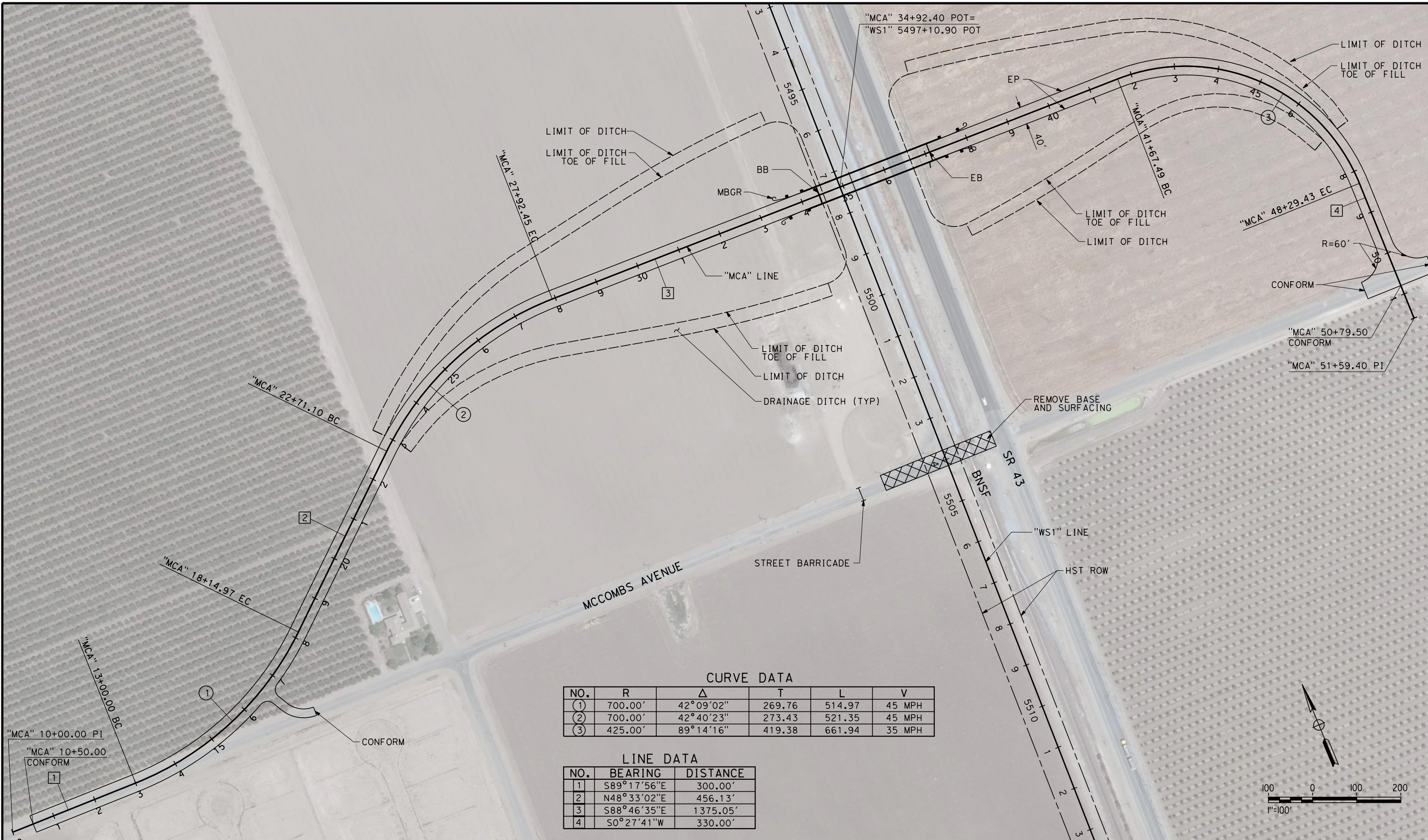
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0170
SCALE
AS SHOWN
SHEET NO.
1 OF 35

6/29/2011 10:43:12 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1900.dgn

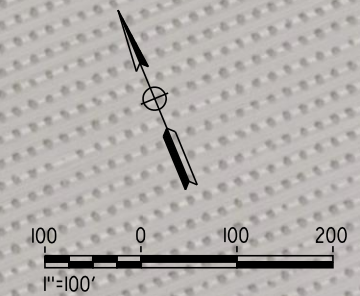


CURVE DATA

NO.	R	Δ	T	L	V
①	700.00'	42°09'02"	269.76	514.97	45 MPH
②	700.00'	42°40'23"	273.43	521.35	45 MPH
③	425.00'	89°14'16"	419.38	661.94	35 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S89°17'56"E	300.00'
2	N48°33'02"E	456.13'
3	S88°46'35"E	1375.05'
4	S0°27'41"W	330.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
MCCOMBS AVENUE

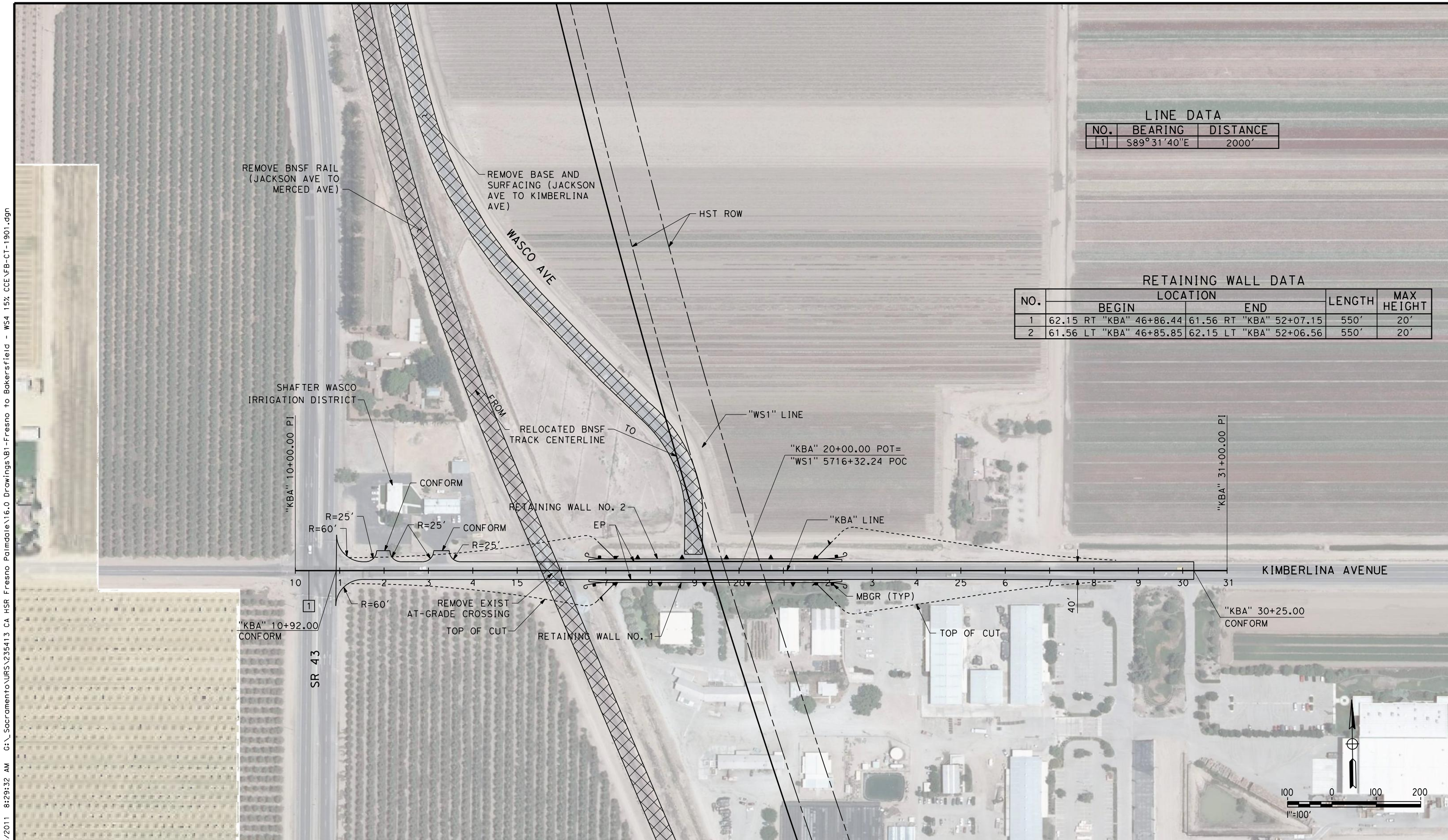
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1900

SCALE
AS SHOWN

SHEET NO.
2 OF 35

6/29/2011 8:29:32 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1901.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°31'40"E	2000'

RETAINING WALL DATA

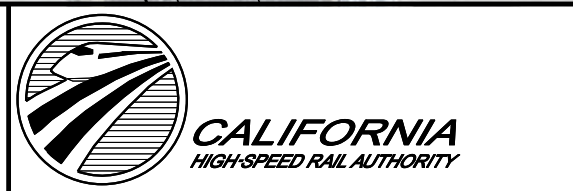
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	62.15 RT "KBA" 46+86.44	61.56 RT "KBA" 52+07.15	550'	20'
2	61.56 LT "KBA" 46+85.85	62.15 LT "KBA" 52+06.56	550'	20'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

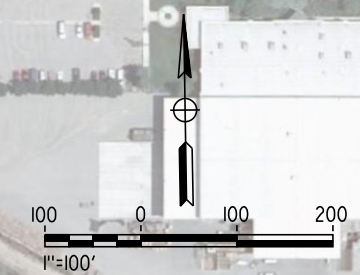
**NOT FOR
CONSTRUCTION**



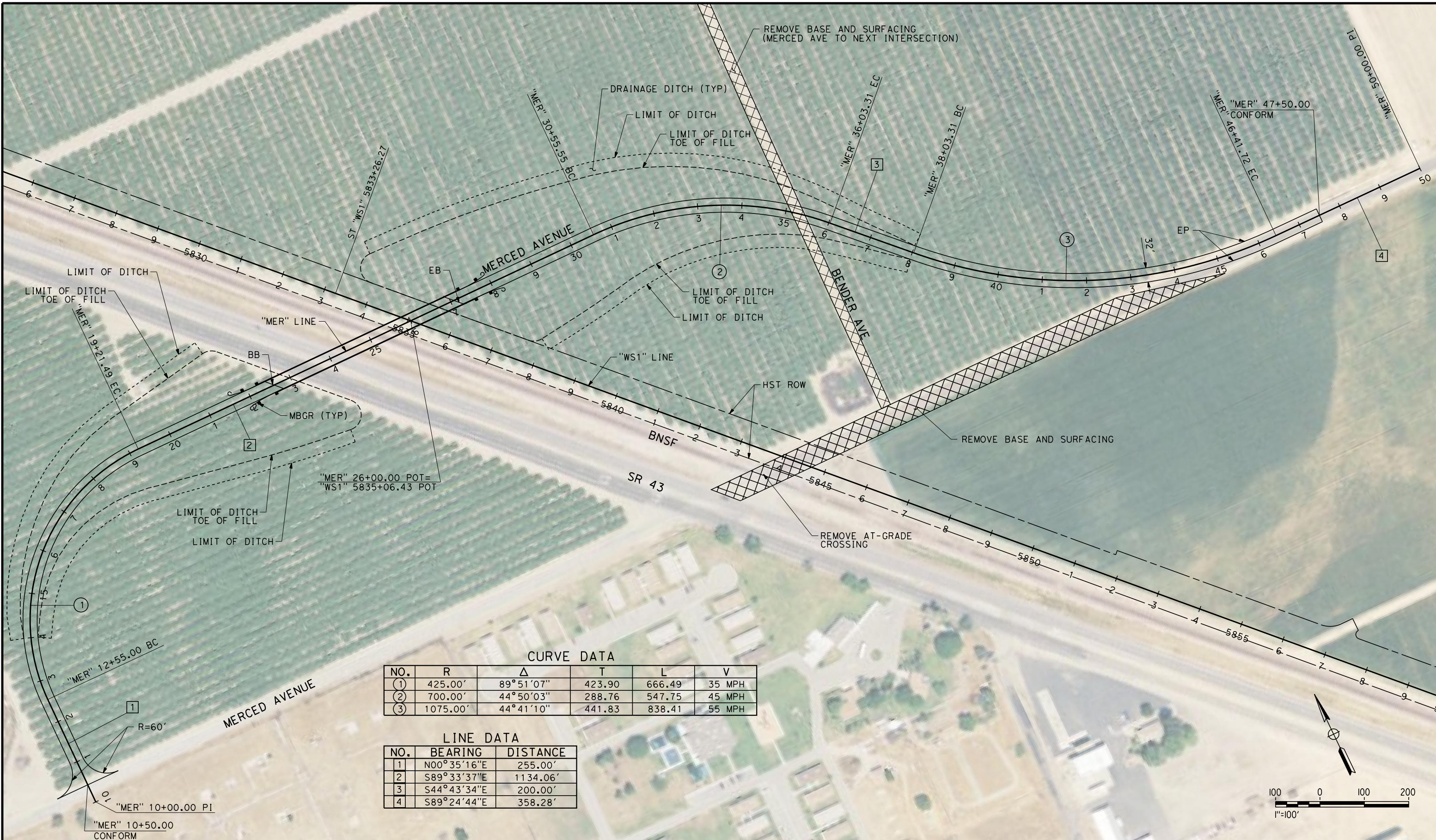
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
KIMBERLINA ROAD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1901
SCALE
AS SHOWN
SHEET NO.
3 OF 35



6/29/2011 8:28:16 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS1 15% CCE\FB-CT-1911.dgn



CURVE DATA

NO.	R	Δ	T	L	V
①	425.00'	89°51'07"	423.90	666.49	35 MPH
②	700.00'	44°50'03"	288.76	547.75	45 MPH
③	1075.00'	44°41'10"	441.83	838.41	55 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	N00°35'16"E	255.00'
2	S89°33'37"E	1134.06'
3	S44°43'34"E	200.00'
4	S89°24'44"E	358.28'

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

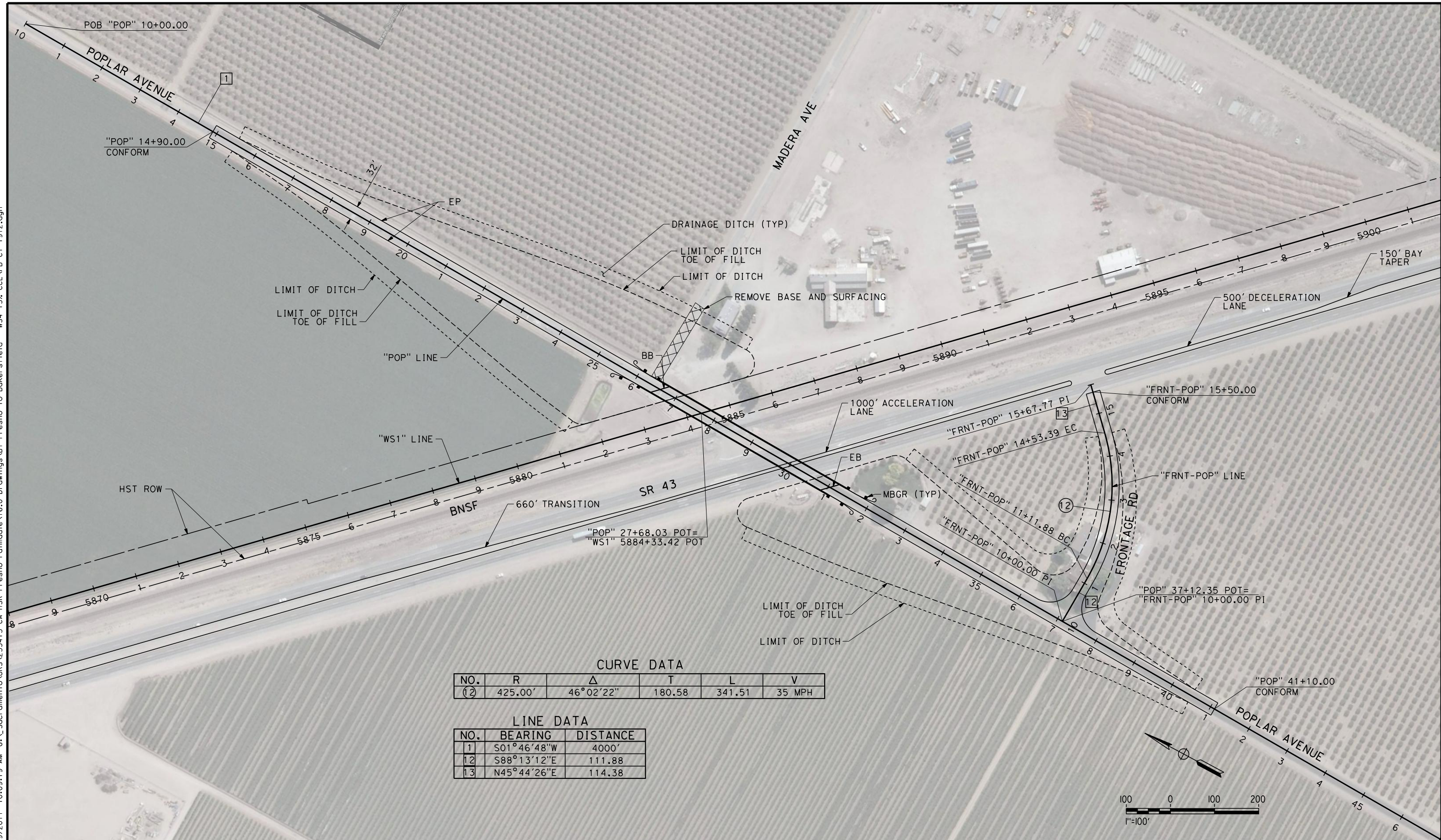


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
MERCED AVENUE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1911
SCALE
AS SHOWN
SHEET NO.
4 OF 35

REV	DATE	BY	CHK	APP	DESCRIPTION

6/29/2011 10:09:19 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1912.dgn



CURVE DATA

NO.	R	Δ	T	L	V
(2)	425.00'	46°02'22"	180.58	341.51	35 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S01°46'48"W	4000'
2	S88°13'12"E	111.88
3	N45°44'26"E	114.38

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON

DRAWN BY
V. ORTEGA

CHECKED BY
B. RAWSON

IN CHARGE
O. EARLE

DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
POPLAR AVENUE

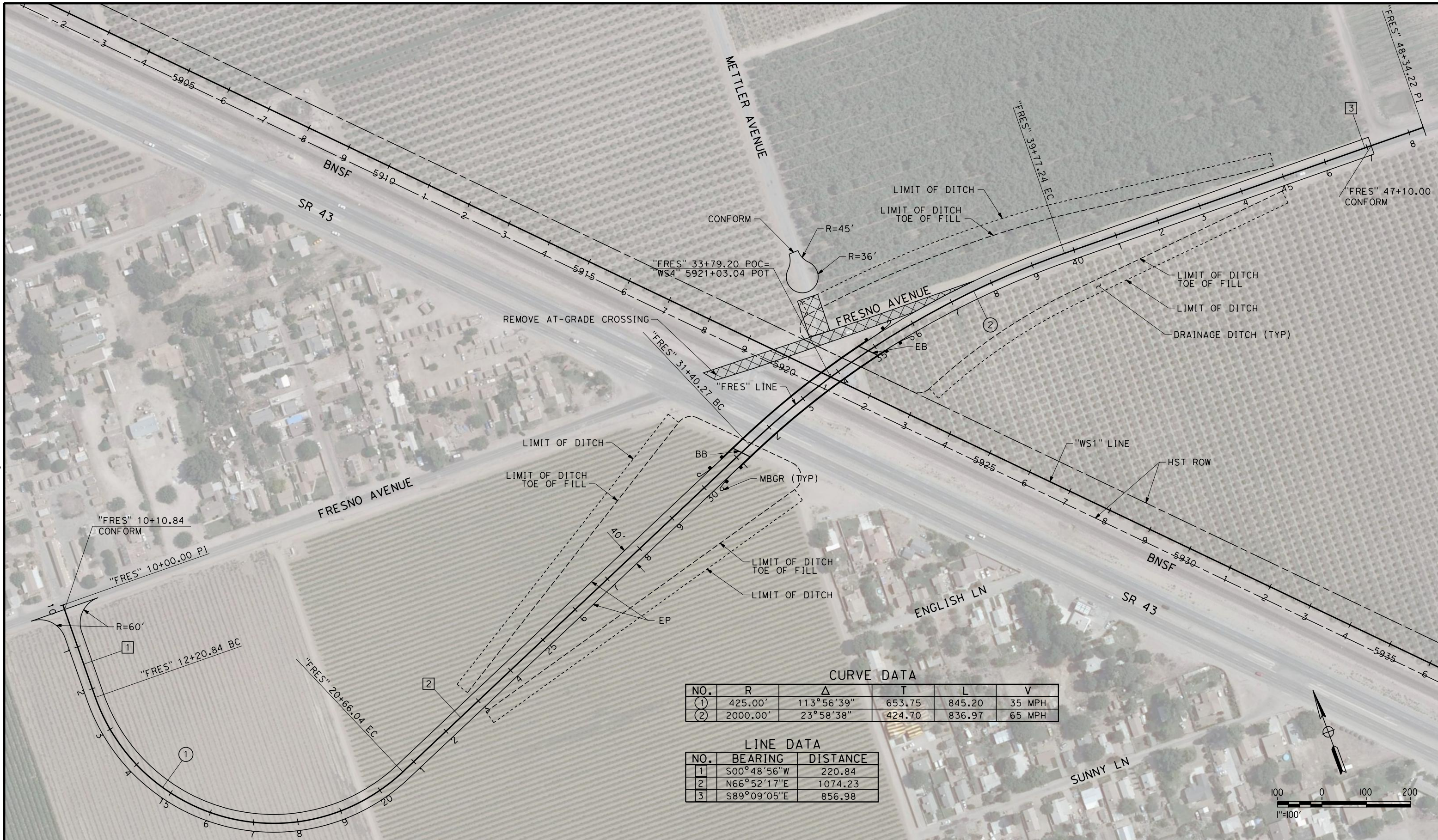
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1912

SCALE
AS SHOWN

SHEET NO.
5 OF 35

6/29/2011 10:48:38 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1913.dgn



CURVE DATA

NO.	R	Δ	T	L	V
(1)	425.00'	113°56'39"	653.75	845.20	35 MPH
(2)	2000.00'	23°58'38"	424.70	836.97	65 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S00°48'56"W	220.84
2	N66°52'17"E	1074.23
3	S89°09'05"E	856.98

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

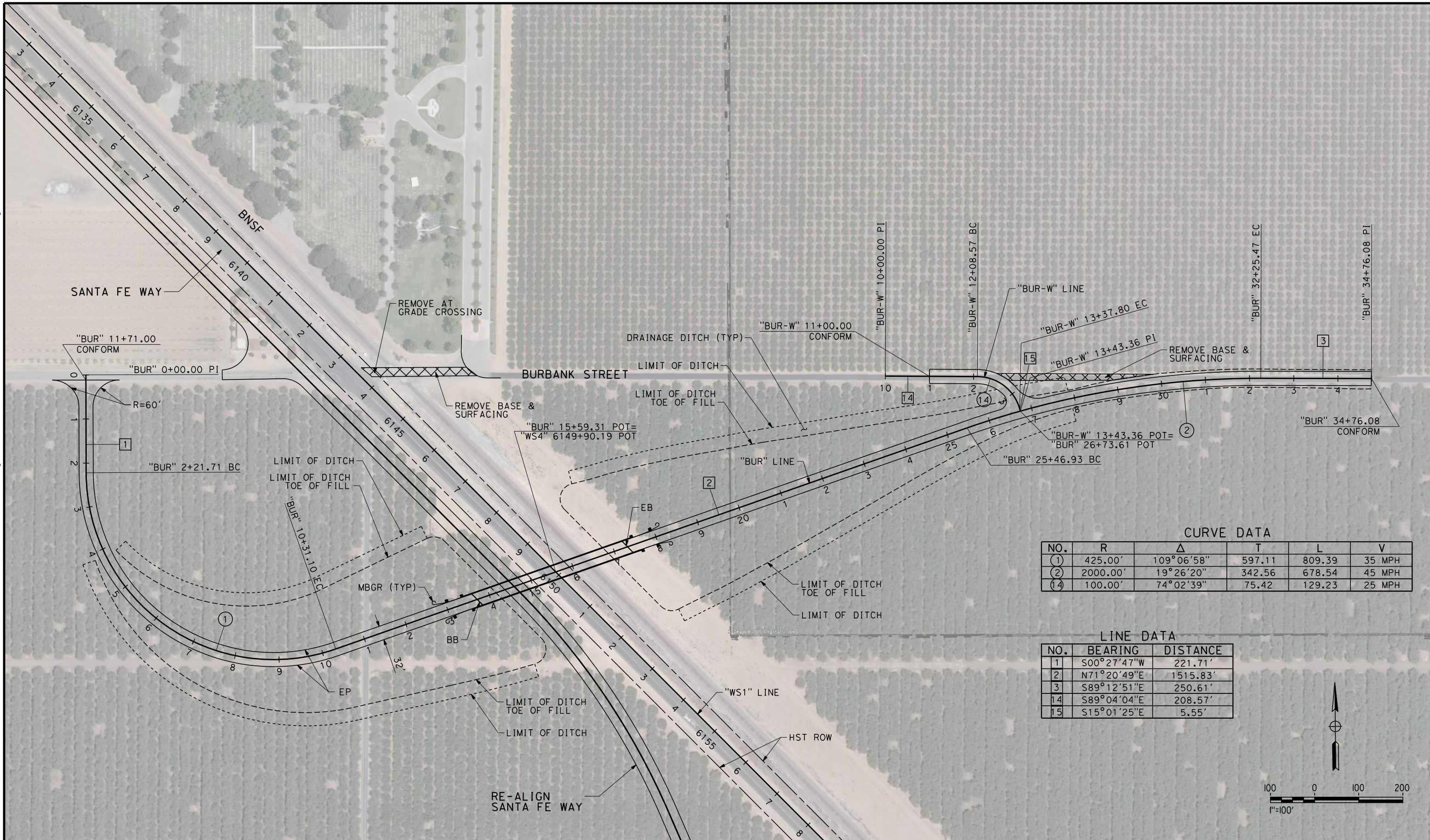


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
FRESNO AVENUE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1913
SCALE
AS SHOWN
SHEET NO.
6 OF 35

6/29/2011 9:23:53 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1914.dgn

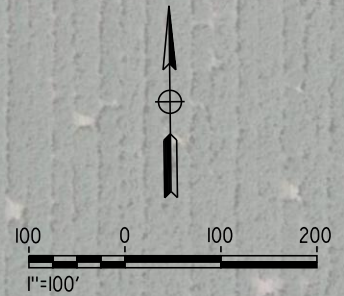


CURVE DATA

NO.	R	Δ	T	L	V
(1)	425.00'	109°06'58"	597.11	809.39	35 MPH
(2)	2000.00'	19°26'20"	342.56	678.54	45 MPH
(14)	100.00'	74°02'39"	75.42	129.23	25 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S00°27'47"W	221.71'
2	N71°20'49"E	1515.83'
3	S89°12'51"E	250.61'
14	S89°04'04"E	208.57'
15	S15°01'25"E	5.55'

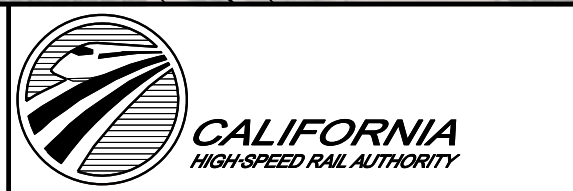


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
BURBANK STREET

CONTRACT NO.
HSR 06-0003

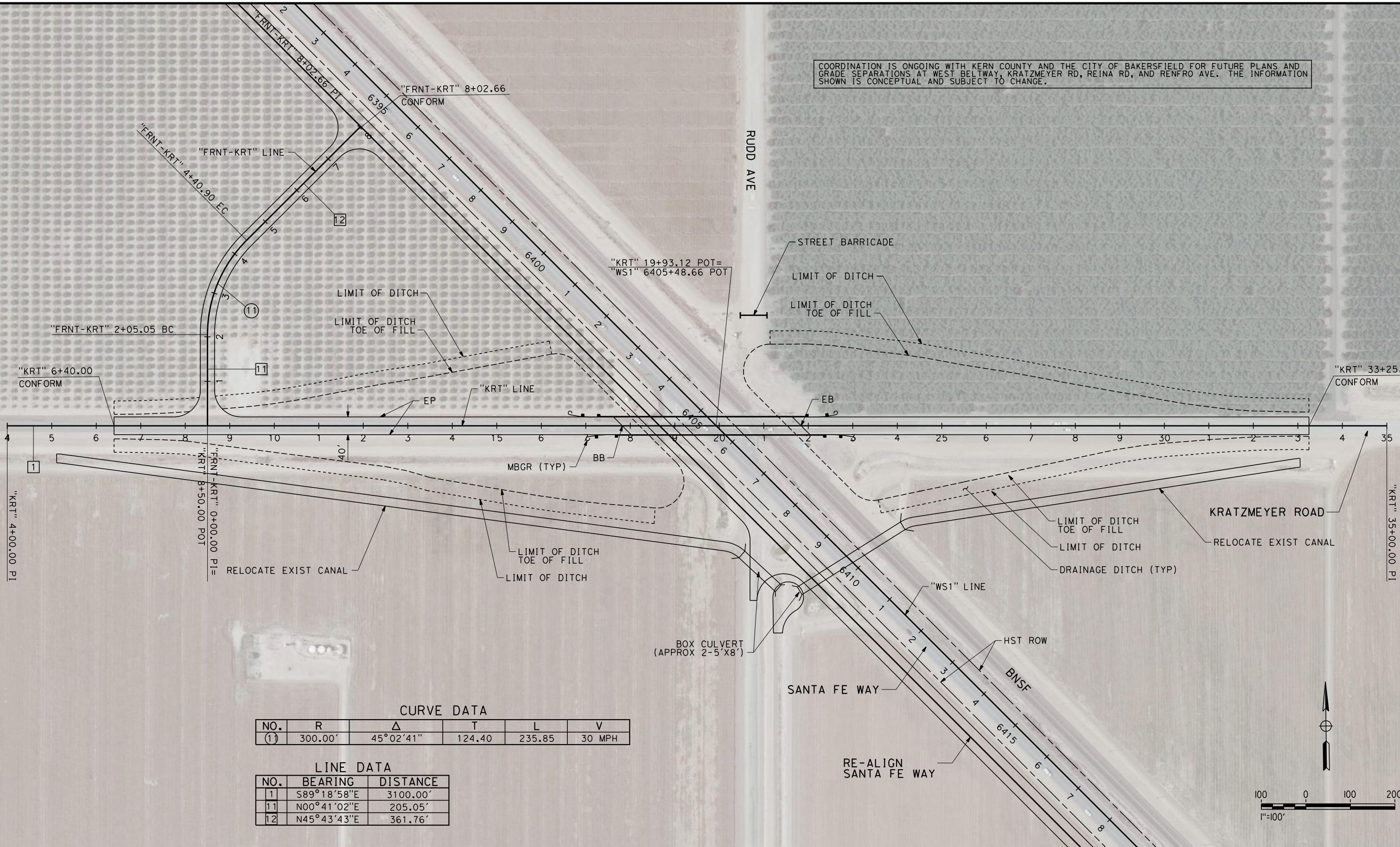
DRAWING NO.
CT1914

SCALE
AS SHOWN

SHEET NO.
7 OF 35

COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.

6/29/2011 9:27:07 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1921.dgn

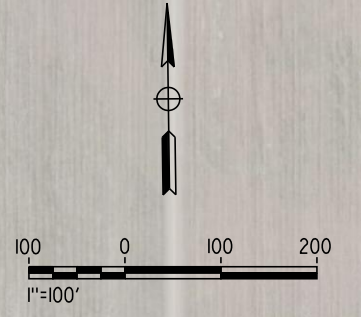


CURVE DATA

NO.	R	Δ	T	L	V
(1)	300.00'	45° 02' 41"	124.40	235.85	30 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S89° 18' 58" E	3100.00'
11	N00° 41' 02" E	205.05'
12	N45° 43' 43" E	361.76'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



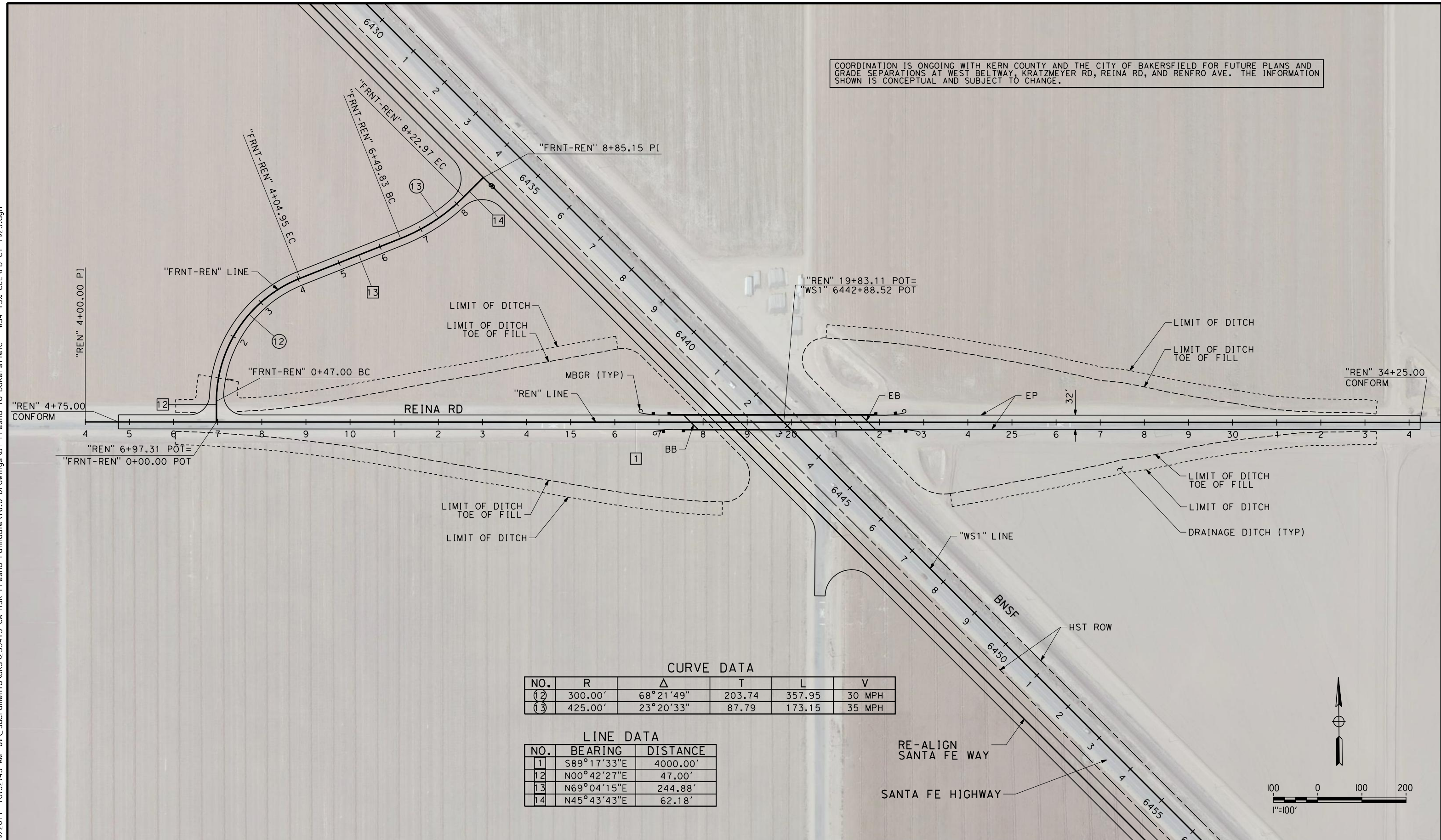
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
KRATZMEYER ROAD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1921
SCALE
AS SHOWN
SHEET NO.
8 OF 35

COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.

6/29/2011 10:52:43 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1923.dgn

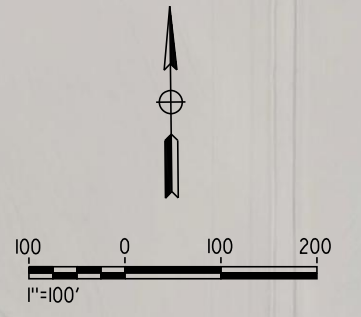


CURVE DATA

NO.	R	Δ	T	L	V
(12)	300.00'	68°21'49"	203.74	357.95	30 MPH
(13)	425.00'	23°20'33"	87.79	173.15	35 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S89°17'33"E	4000.00'
12	N00°42'27"E	47.00'
13	N69°04'15"E	244.88'
14	N45°43'43"E	62.18'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

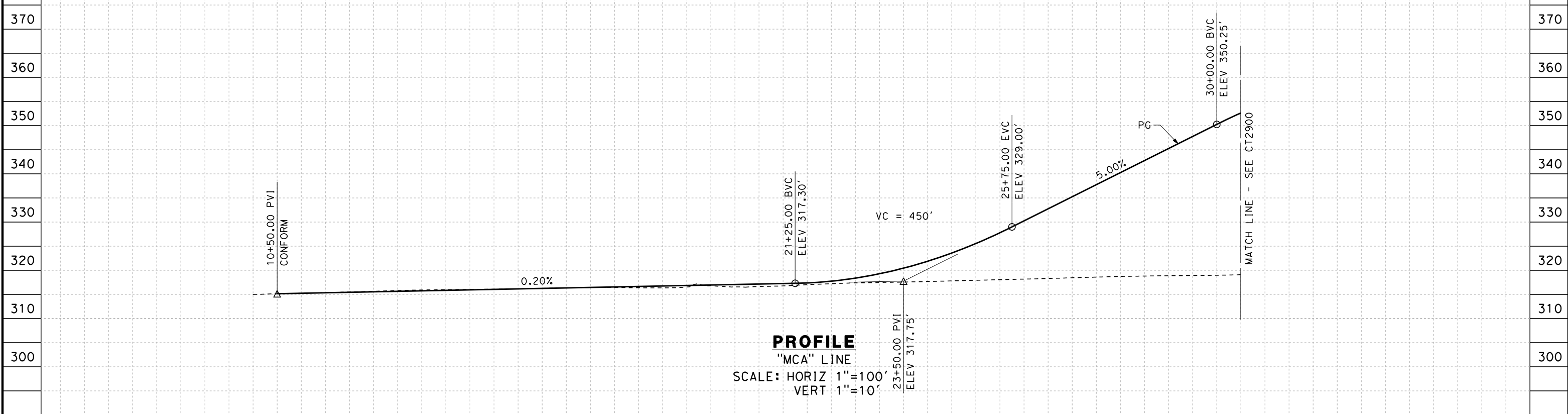
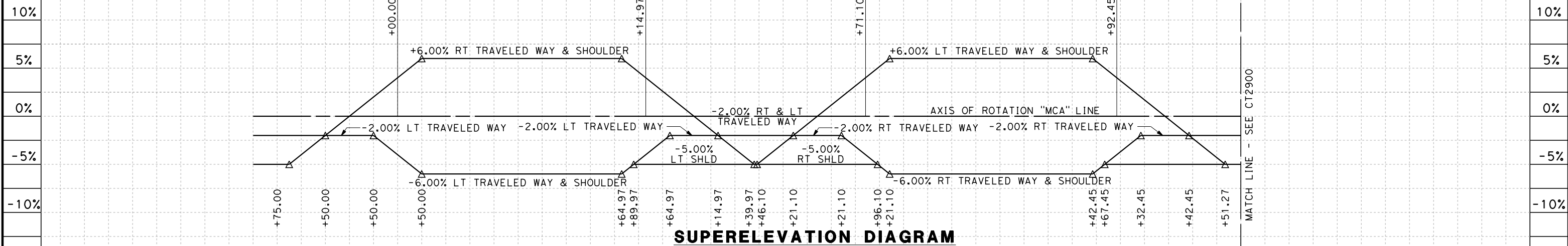
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
REINA ROAD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1923
SCALE
AS SHOWN
SHEET NO.
9 OF 35

- 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



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

DESIGNED BY	J. NETTLETON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
 DESIGN SUBMISSION**

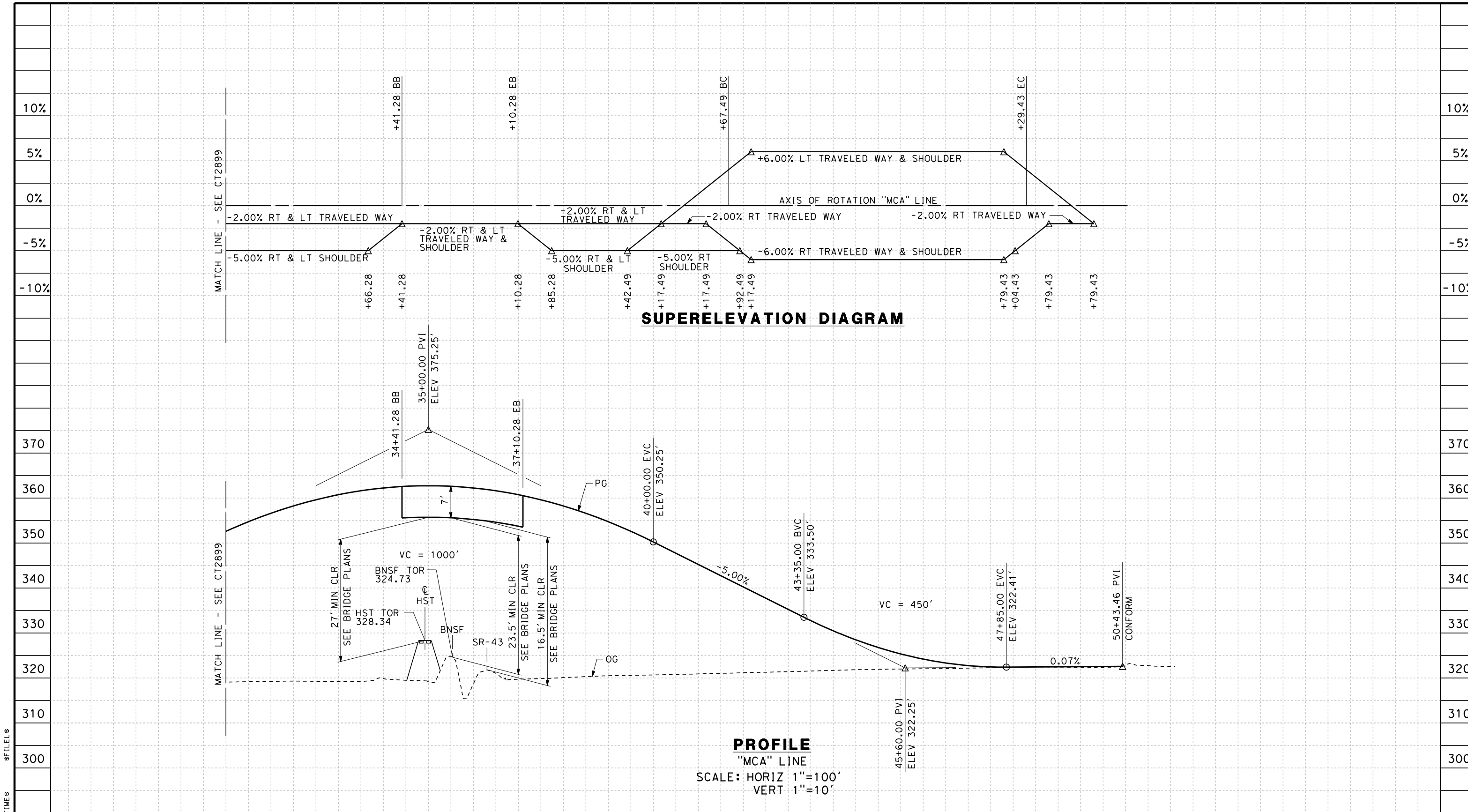
**NOT FOR
 CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
 ALIGNMENT WS1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 MCCOMBS AVENUE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2899
SCALE	AS SHOWN
SHEET NO.	10 OF 35



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	
Exc																									
Emb																									

\$USER\$	\$DATE\$	\$TIME\$	\$FILEL\$		
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

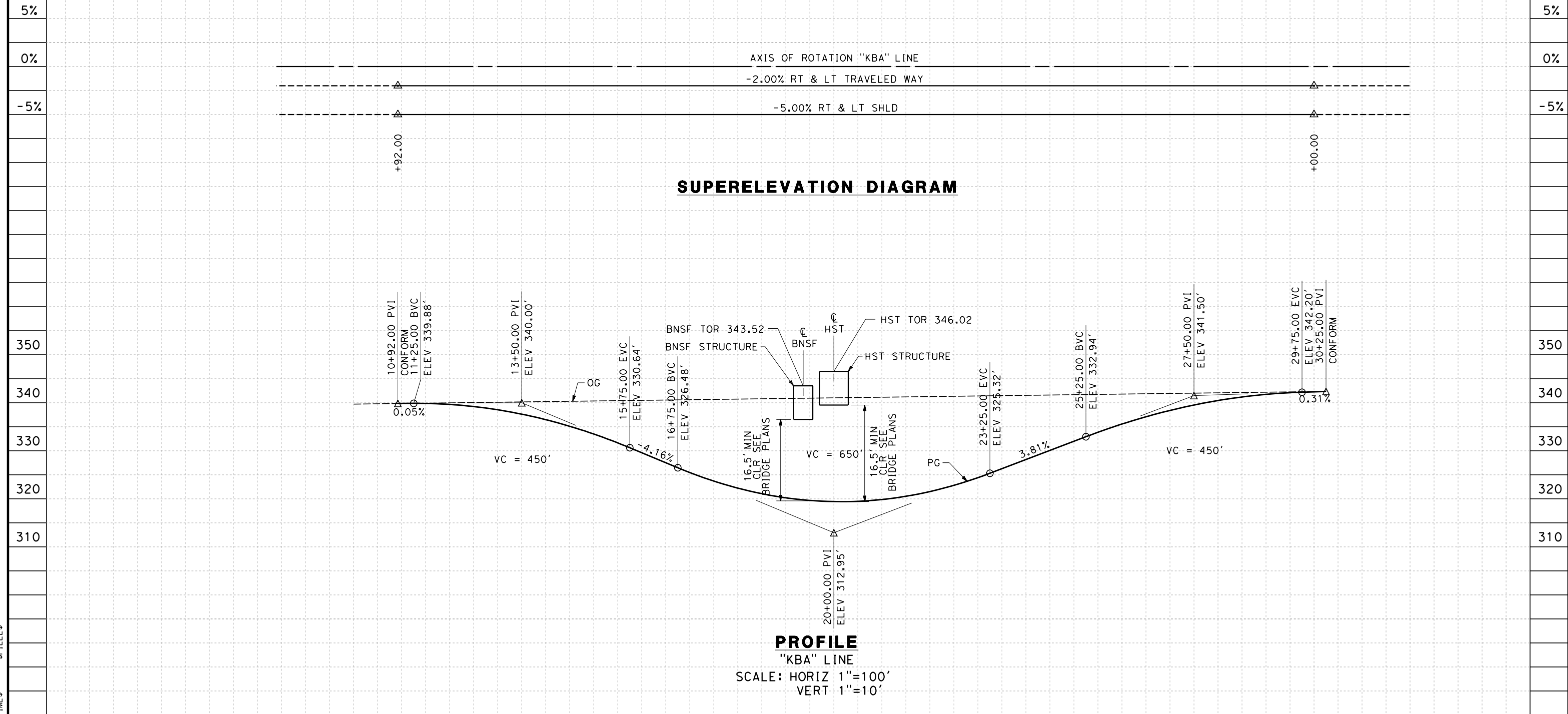
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
MCCOMBS AVENUE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2900
SCALE
AS SHOWN
SHEET NO.
11 OF 35

- 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
 4. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5'.
 5. MIN VERTICAL CLEARANCE UNDER BNSF STRUCTURE IS 16.5'



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																							

DESIGNED BY	J. NETTLETON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

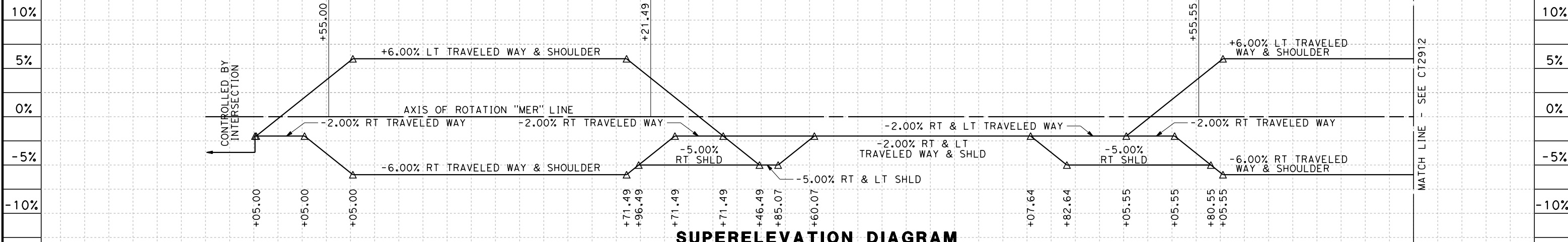


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

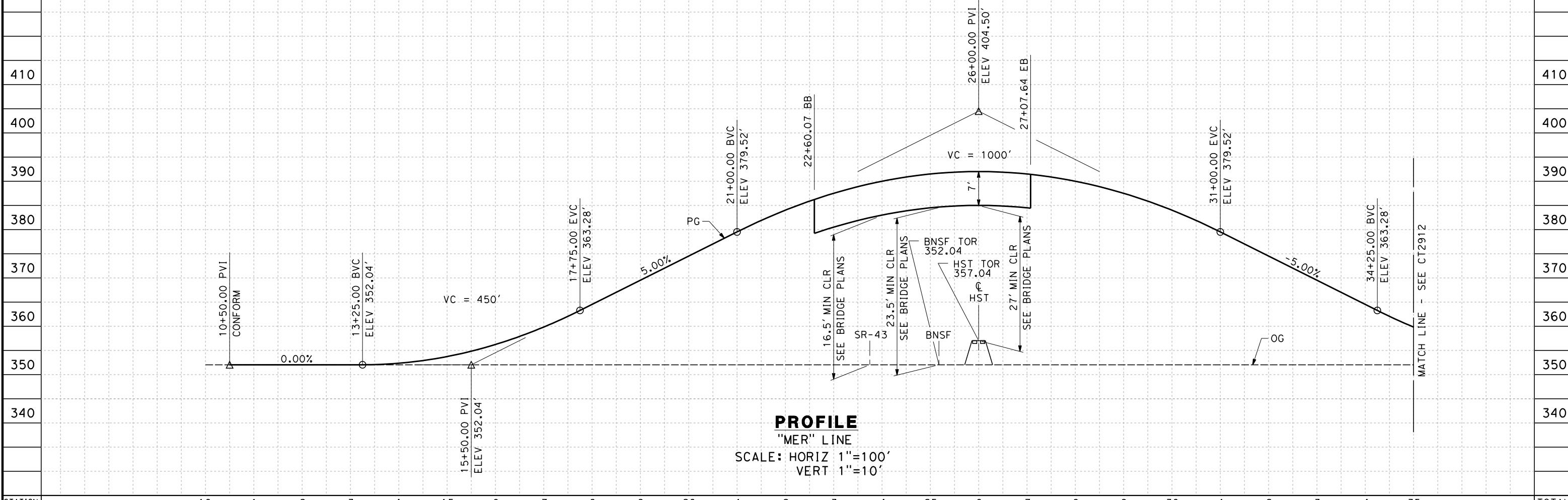
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
KIMBERLINA ROAD

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2901
SCALE	AS SHOWN
SHEET NO.	12 OF 35

- 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



SUPERELEVATION DIAGRAM



PROFILE

"MER" 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																											

DESIGNED BY	J. NETTLETON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

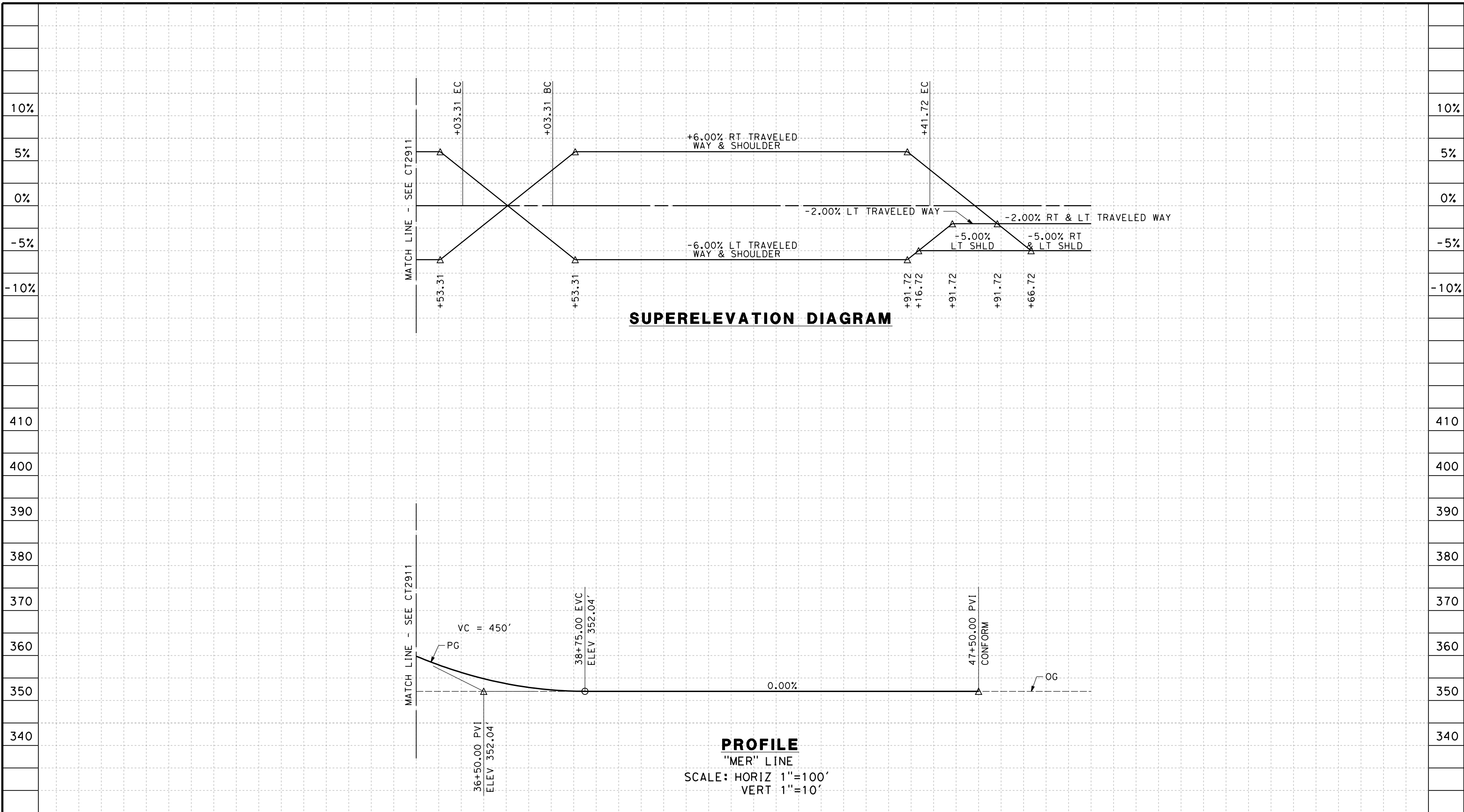
**NOT FOR
CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
MERCED AVENUE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2911
SCALE	AS SHOWN
SHEET NO.	13 OF 35



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

DESIGNED BY	J. NETTLETON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
MERCED AVENUE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2912
SCALE	AS SHOWN
SHEET NO.	14 OF 35

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

- 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

5%

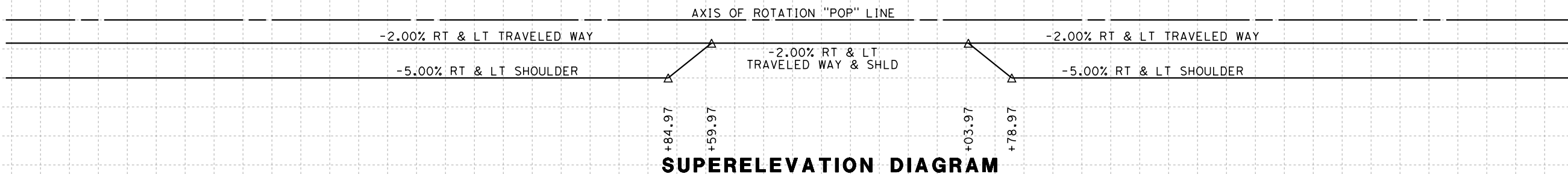
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410

400

390

380

370

360

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340

410

400

390

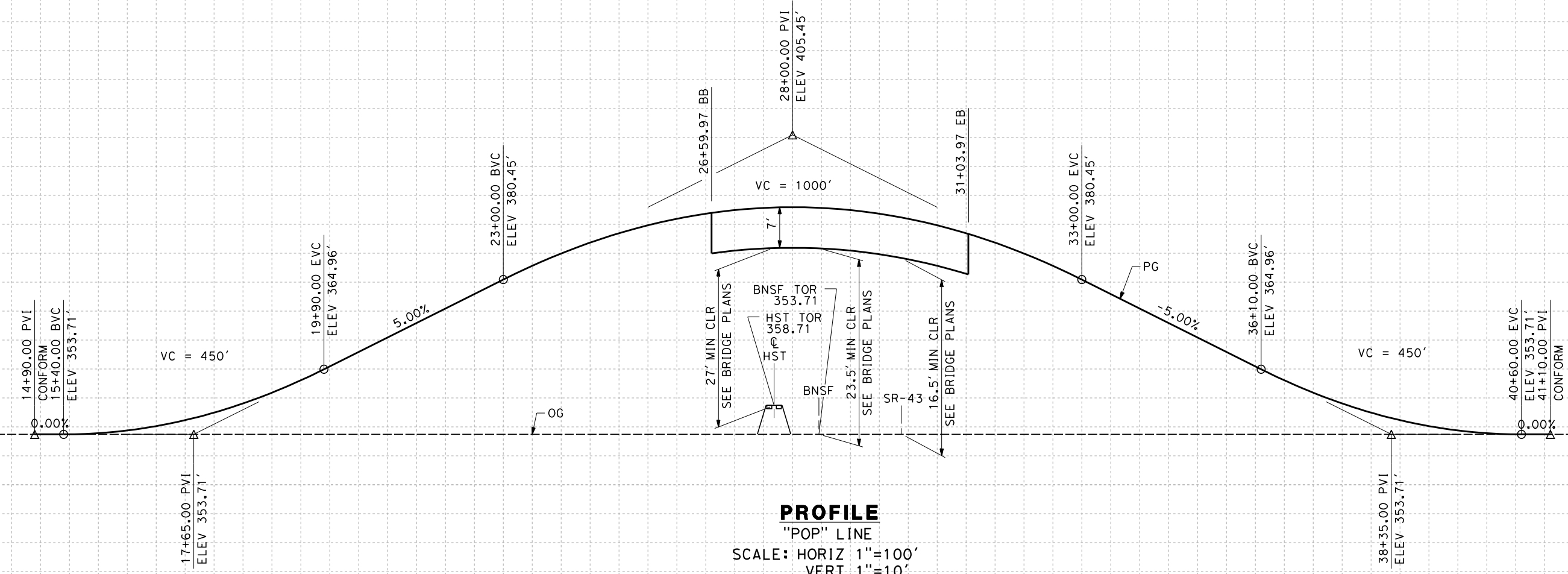
380

370

360

350

340



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

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	8	9	40	1	2	TOTAL	
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
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
POPLAR AVENUE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2913
SCALE
AS SHOWN
SHEET NO.
15 OF 35

- NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
 2. VERTICAL DESIGN SPEED = 20 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM

10%

10%

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0%

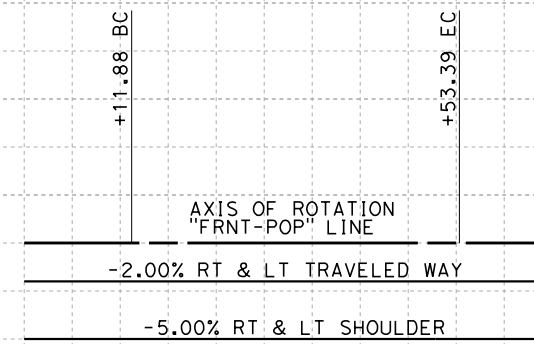
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-5%

-10%

-10%



SUPERELEVATION DIAGRAM

380

380

370

370

360

360

350

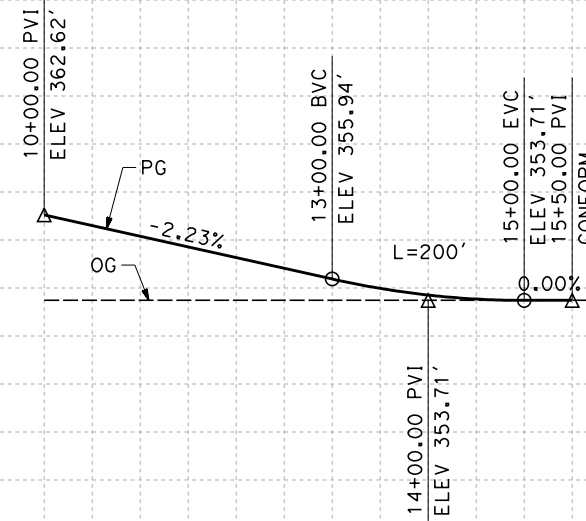
350

340

340

330

330



PROFILE

"FRNT-POP" LINE

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

STATION

10 1 2 3 4 15 6

TOTAL

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
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

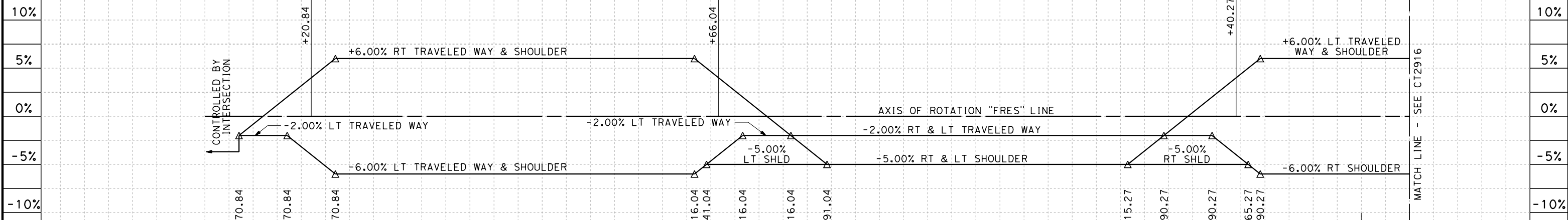
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CONSTRUCTION**



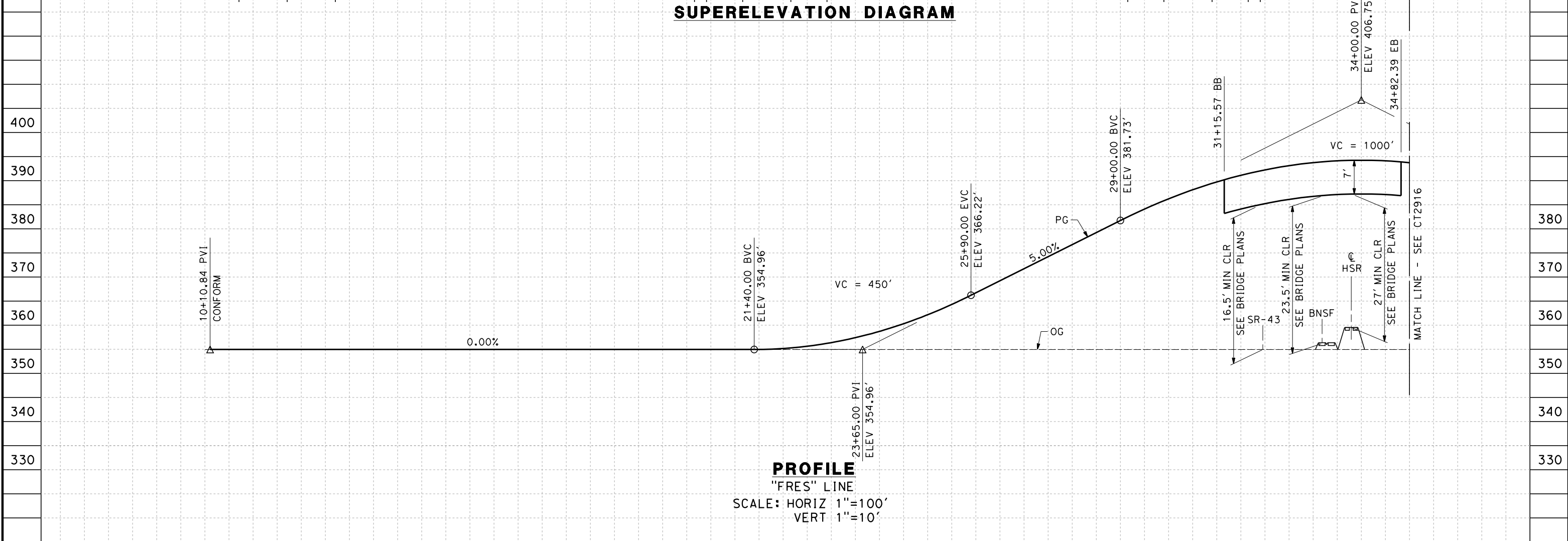
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
FRONTAGE ROAD FOR POPLAR AVENUE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2914
SCALE
AS SHOWN
SHEET NO.
16 OF 35

- 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



SUPERELEVATION DIAGRAM



PROFILE
"FRES" 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																											

DESIGNED BY	J. NETTLETON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

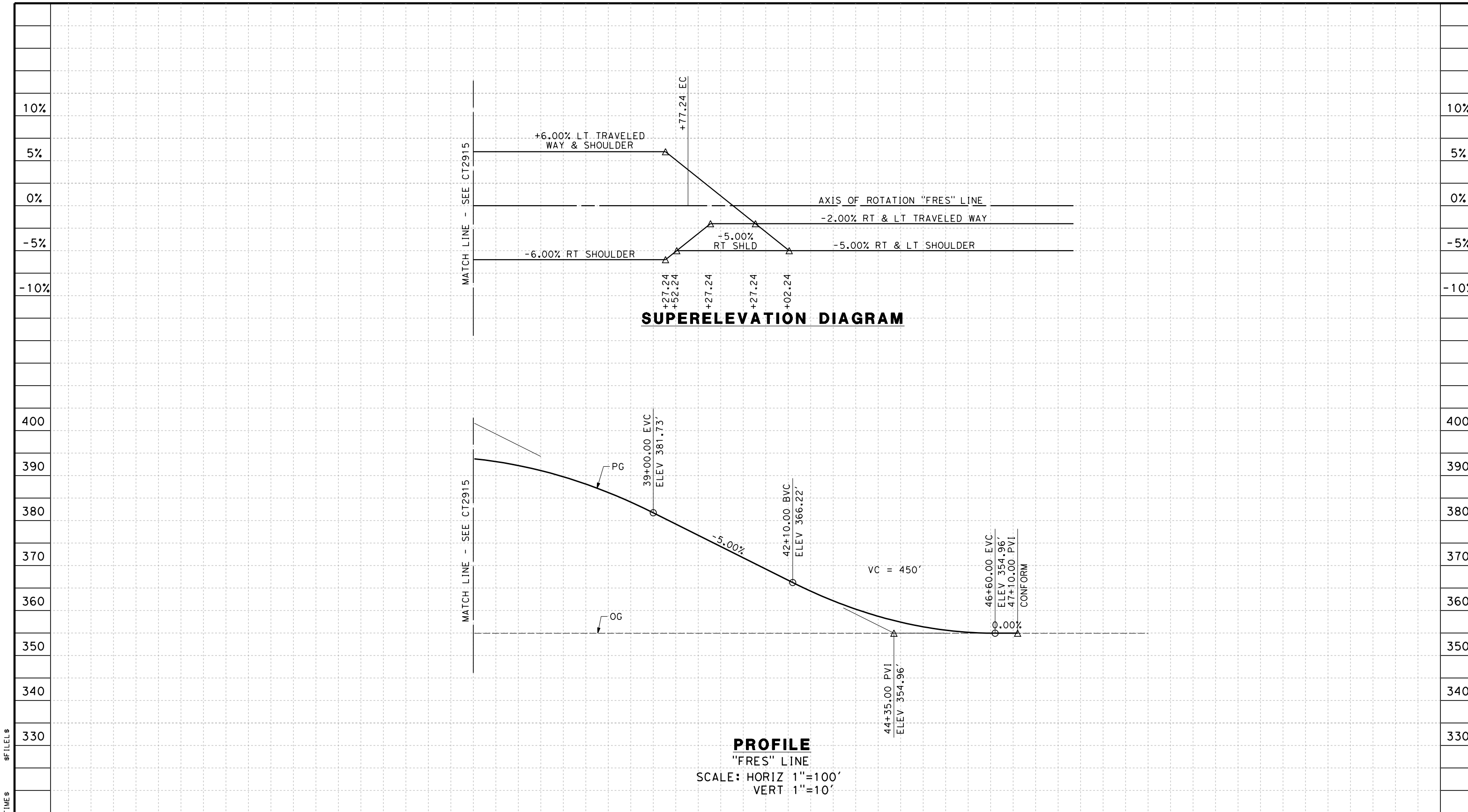
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
FRESNO AVENUE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2915
SCALE	AS SHOWN
SHEET NO.	17 OF 35



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

DESIGNED BY	J. NETTLETON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



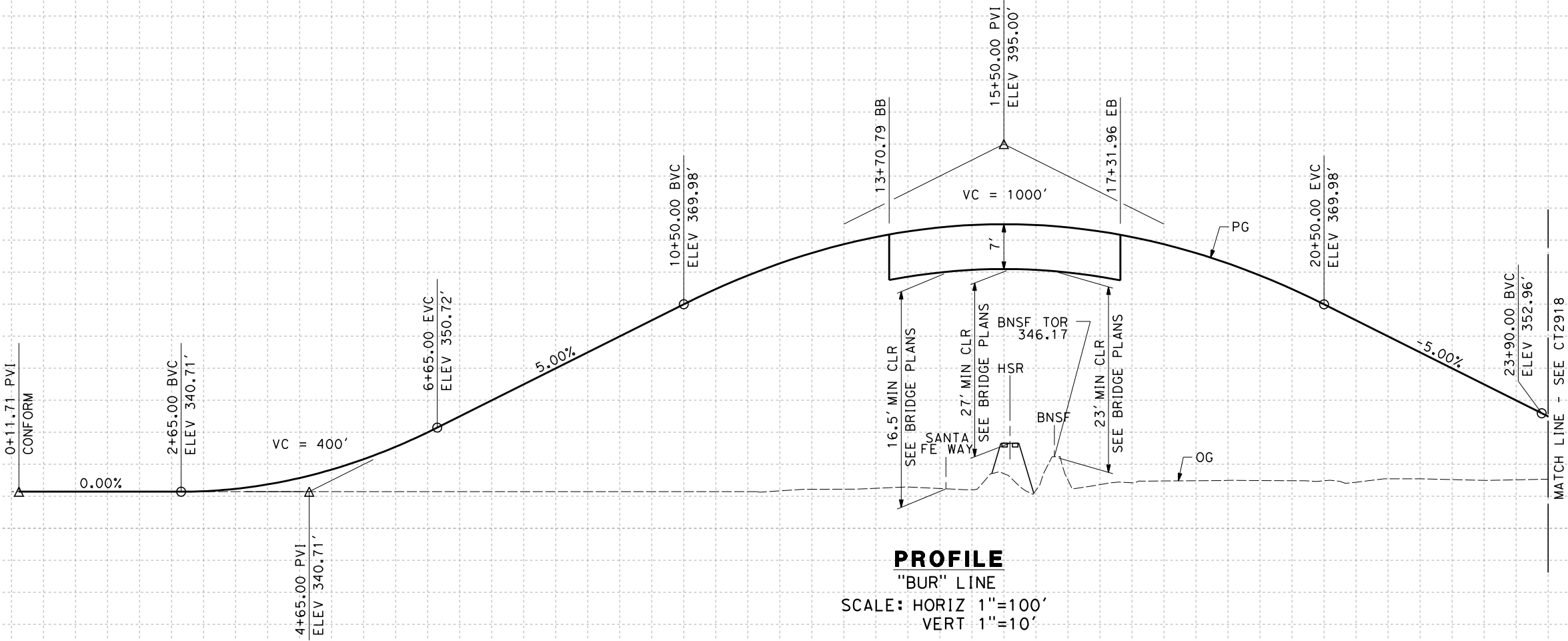
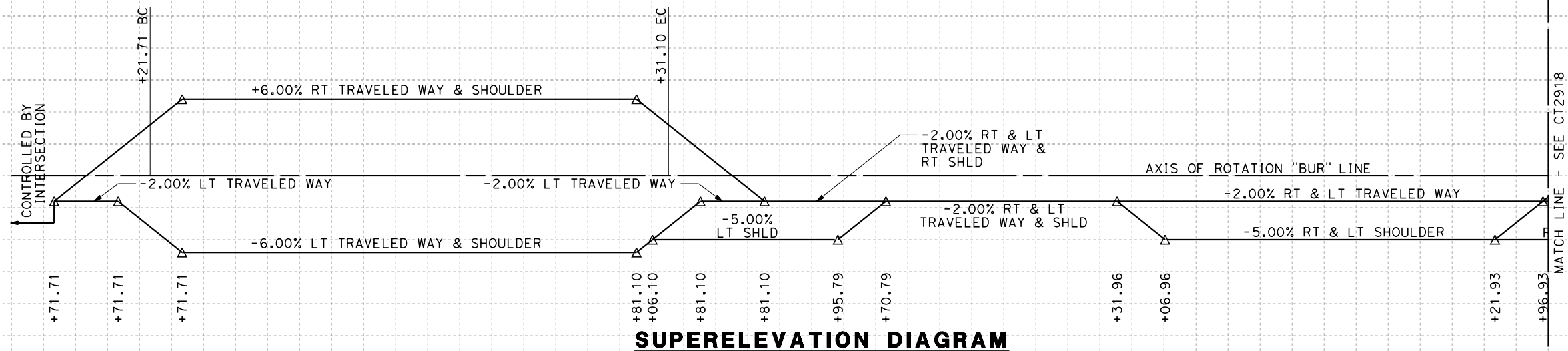
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
FRESNO AVENUE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2916
SCALE	AS SHOWN
SHEET NO.	18 OF 35

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

- 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



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	TOTAL
Exc																										
Emb																										

DESIGNED BY	R. DEASON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

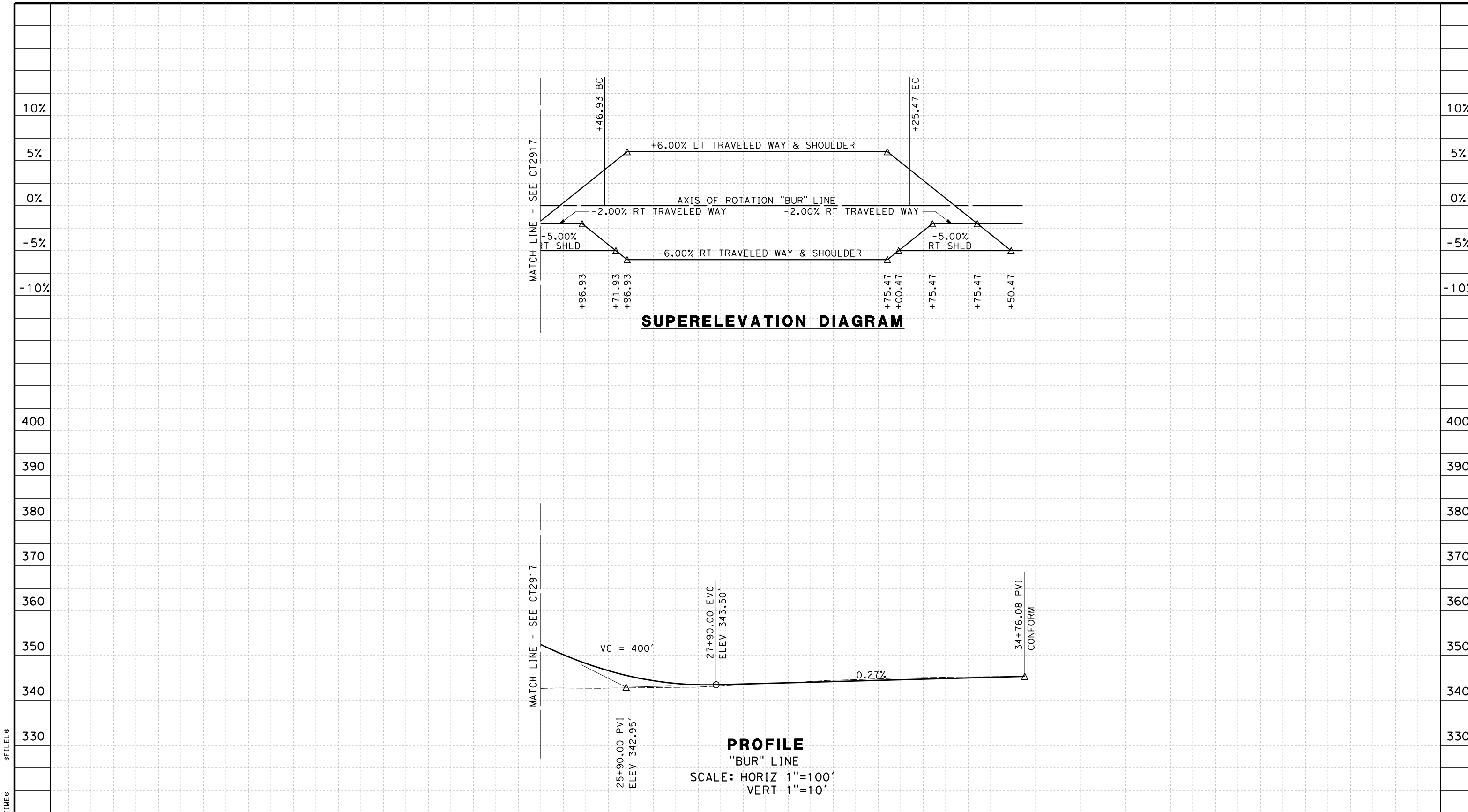
**NOT FOR
CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
BURBANK STREET

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2917
SCALE	AS SHOWN
SHEET NO.	19 OF 35



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
BURBANK STREET

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2918
SCALE
AS SHOWN
SHEET NO.
20 OF 35

- 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

10%

10%

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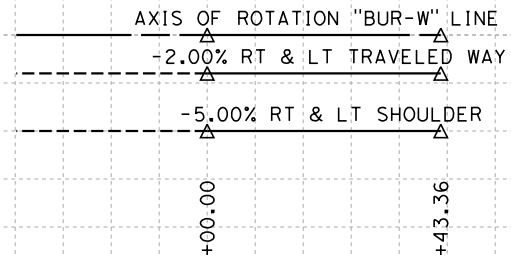
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-10%

-10%



SUPERELEVATION DIAGRAM

370

370

360

360

350

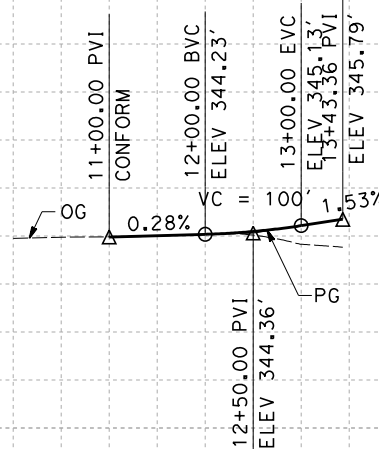
350

340

340

330

330



PROFILE

"BUR-W" LINE

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

STATION	10	1	2	3	4	15	TOTAL
---------	----	---	---	---	---	----	-------

CY	Exc						
	Emb						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

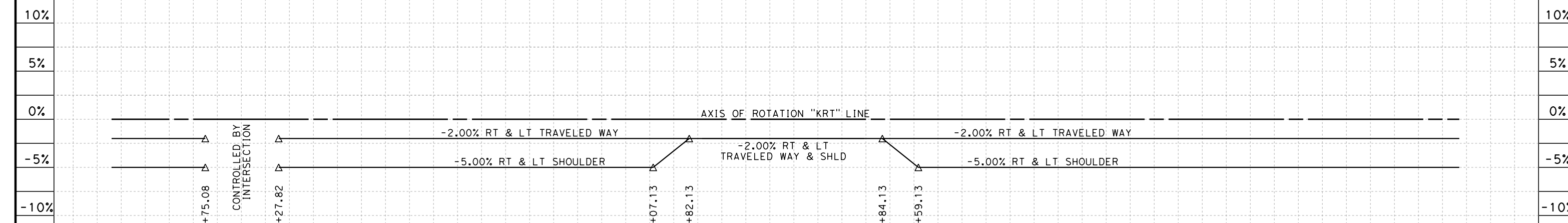
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CONSTRUCTION**



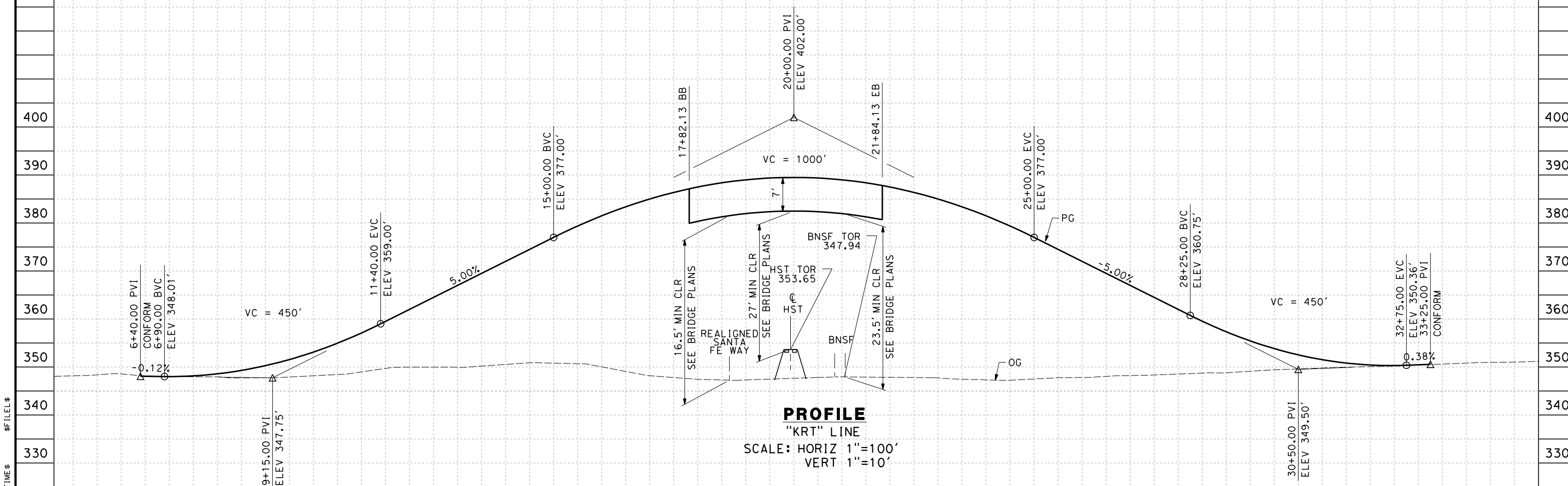
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
BURBANK STREET WEST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2919
SCALE
AS SHOWN
SHEET NO.
21 OF 35

- 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



SUPERELEVATION DIAGRAM



PROFILE

"KRT" 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	1	2	3	4	35	TOTAL
Exc																																
Emb																																

DESIGNED BY	R. DEASON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

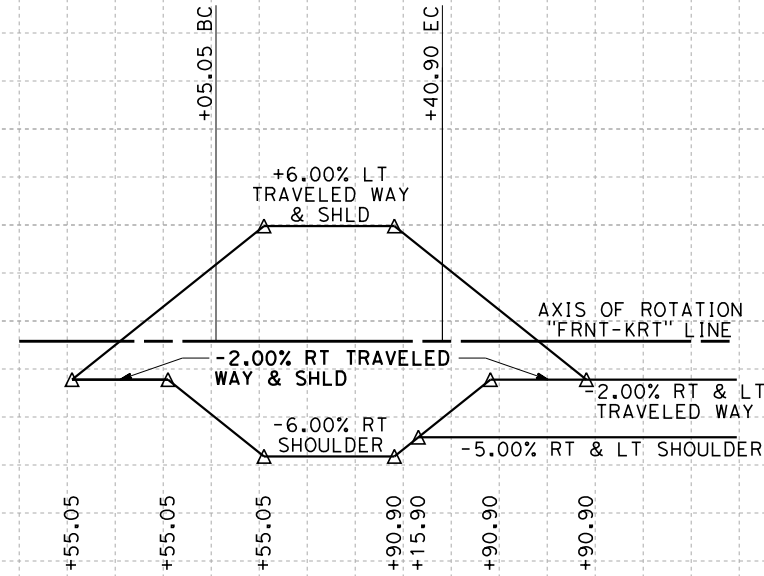
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
KRATZMEYER ROAD

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2921
SCALE	AS SHOWN
SHEET NO.	22 OF 35

- 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

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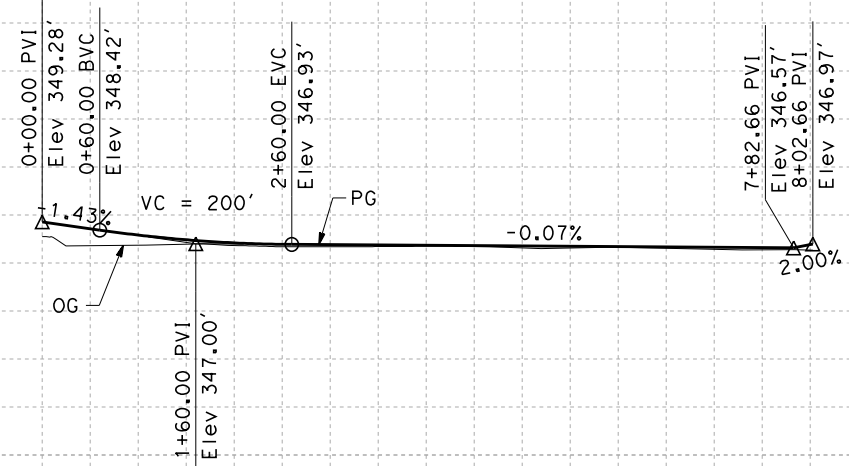
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SUPERELEVATION DIAGRAM

380
370
360
350
340
330
320

380
370
360
350
340
330
320



PROFILE
"FRNT-KRT" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

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

DESIGNED BY	R. DEASON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



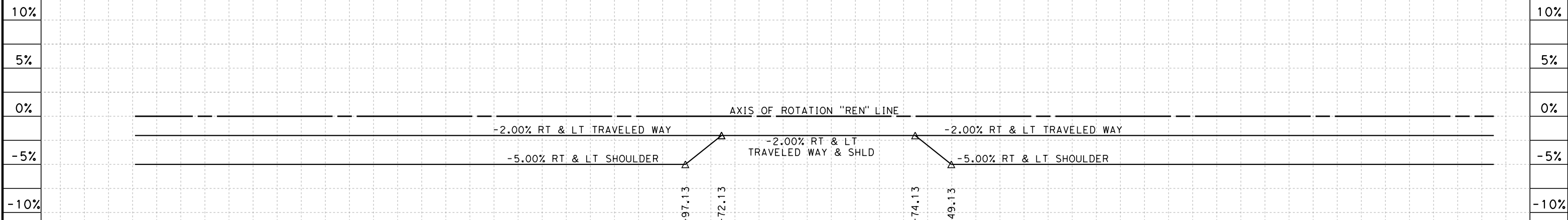
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
KRATZMEYER FRONTAGE ROAD

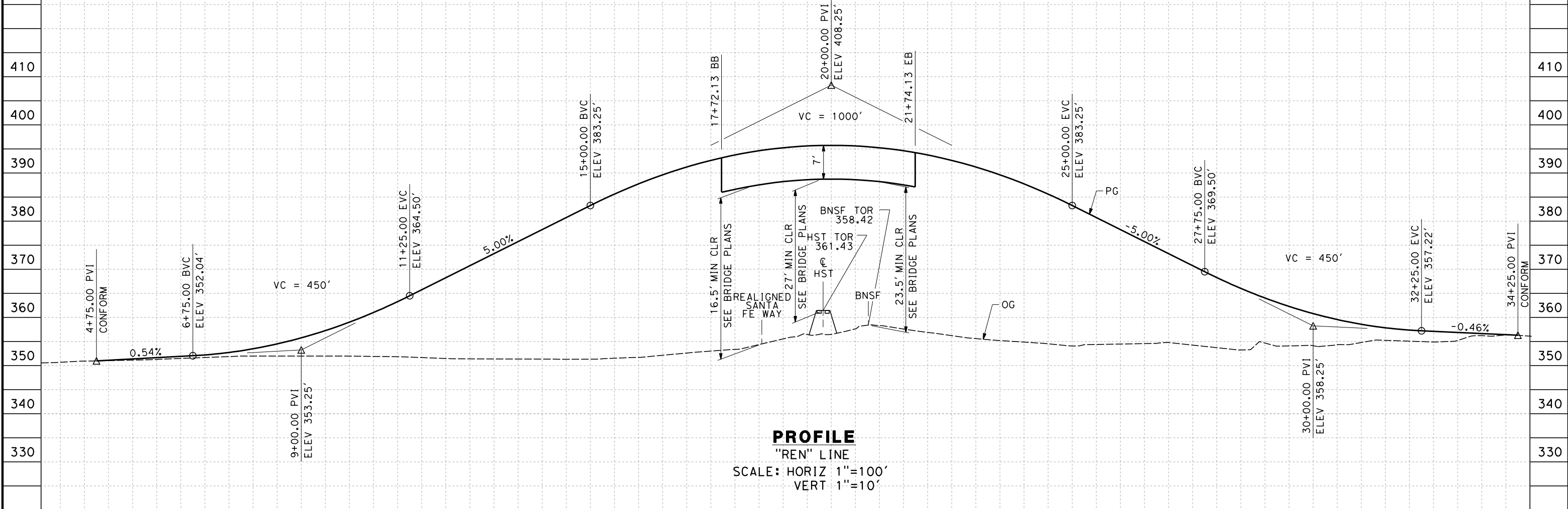
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2923
SCALE	AS SHOWN
SHEET NO.	23 OF 35

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

- 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



SUPERELEVATION DIAGRAM



PROFILE

"REN" 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	1	2	3	4	TOTAL
Exc																															
Emb																															

DESIGNED BY	R. DEASON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
REINA ROAD

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2924
SCALE	AS SHOWN
SHEET NO.	24 OF 35

- 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

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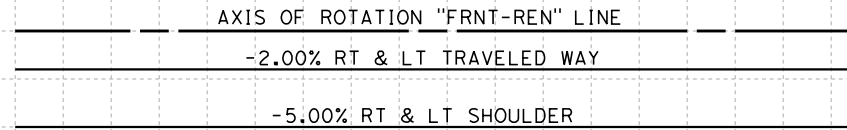
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-10%

-10%



SUPERELEVATION DIAGRAM

380

380

370

370

360

360

350

350

340

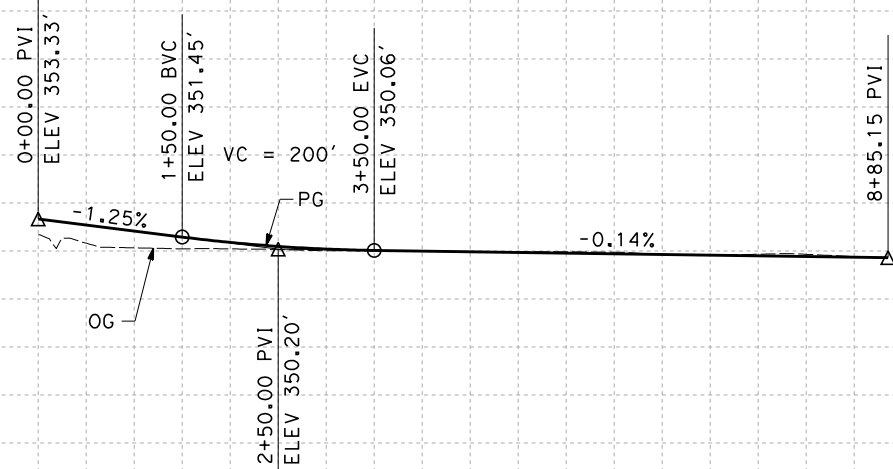
340

330

330

320

320



PROFILE

"FRNT-REN" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

STATION

0 1 2 3 4 5 6 7 8 9

TOTAL

Exc
Emb

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
 DRAWN BY
V. ORTEGA
 CHECKED BY
B. RAWSON
 IN CHARGE
O. EARLE
 DATE
06/30/11

**RECORD SET 15%
 DESIGN SUBMISSION**

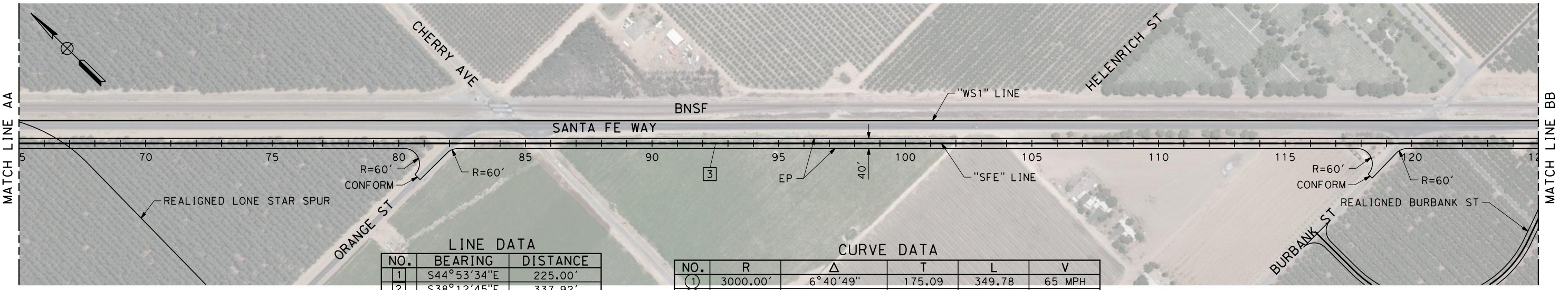
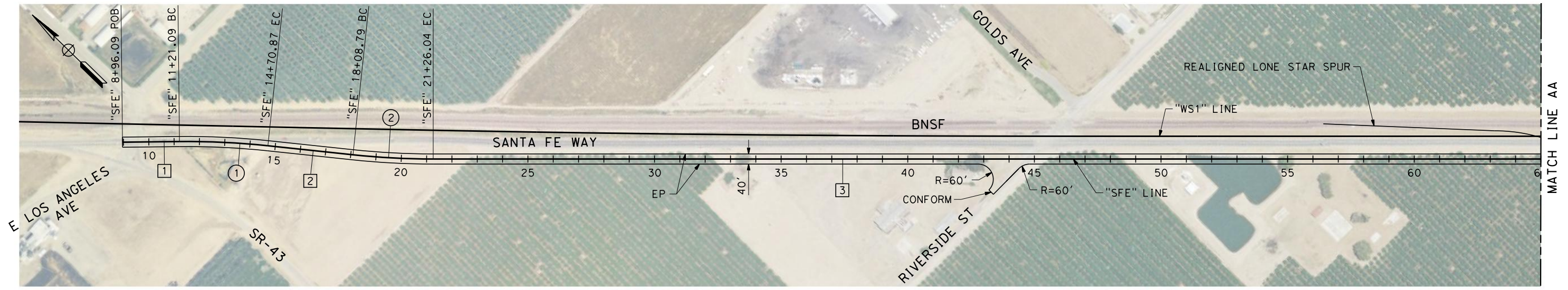
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 THROUGH WASCO-SHAFTER SUBSECTION
 ALIGNMENT WS1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 REINA FRONTAGE ROAD

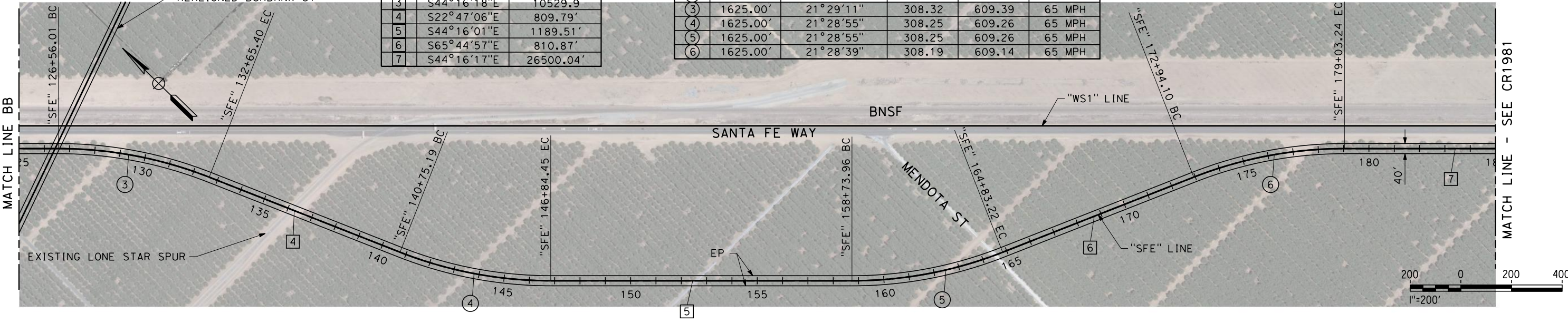
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2925
 SCALE
AS SHOWN
 SHEET NO.
25 OF 35

6/28/2011 4:03:52 PM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CR-1980.dgn



LINE DATA		
NO.	BEARING	DISTANCE
1	S44°53'34"E	225.00'
2	S38°12'45"E	337.92'
3	S44°16'18"E	10529.9
4	S22°47'06"E	809.79'
5	S44°16'01"E	1189.51'
6	S65°44'57"E	810.87'
7	S44°16'17"E	26500.04'

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	6°40'49"	175.09	349.78	65 MPH
②	3000.00'	6°03'33"	158.77	317.25	65 MPH
③	1625.00'	21°29'11"	308.32	609.39	65 MPH
④	1625.00'	21°28'55"	308.25	609.26	65 MPH
⑤	1625.00'	21°28'55"	308.25	609.26	65 MPH
⑥	1625.00'	21°28'39"	308.19	609.14	65 MPH

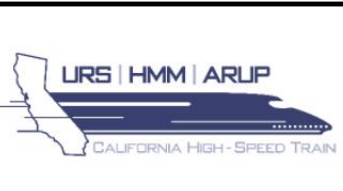


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

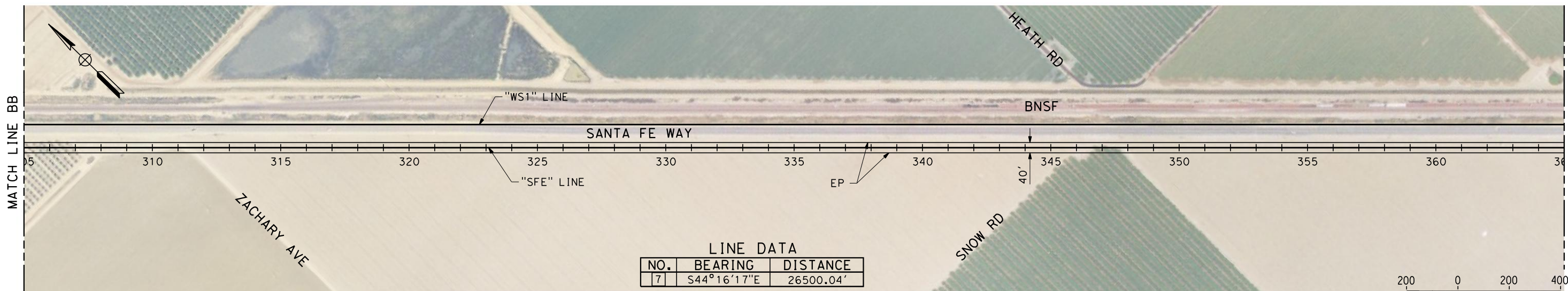
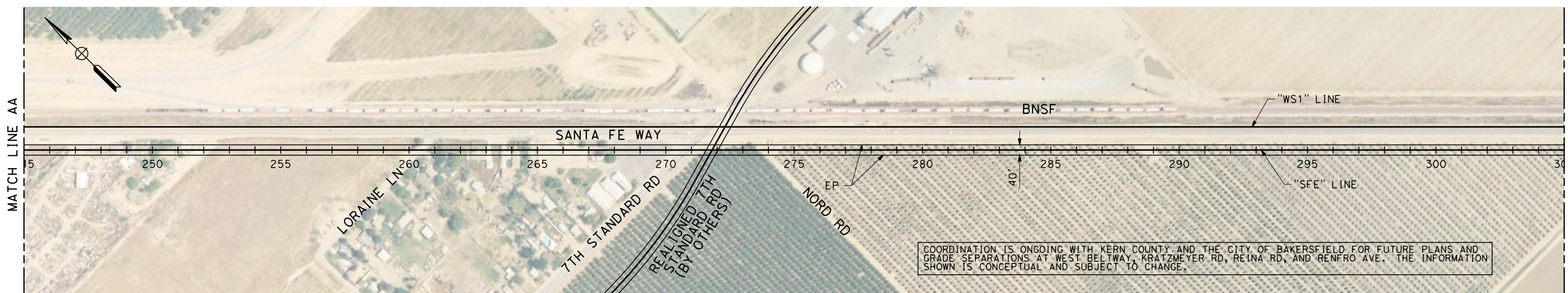
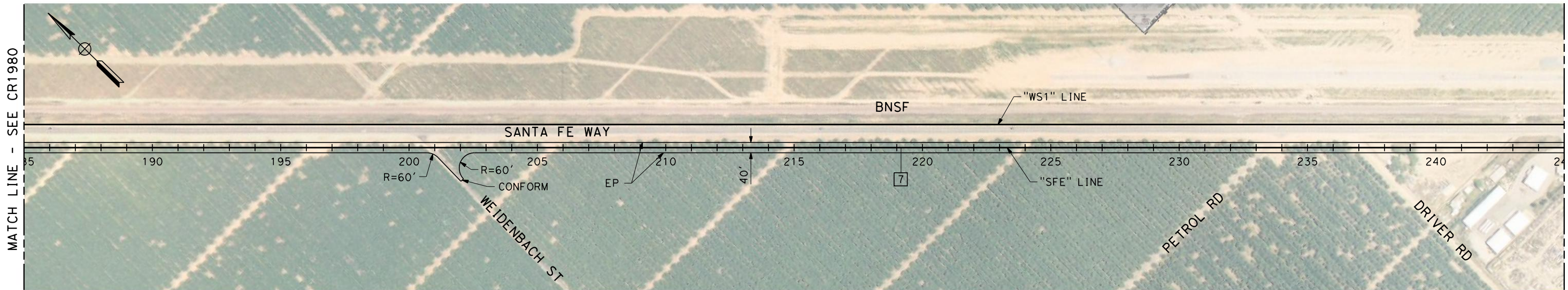
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
ROADWAY LAYOUT
SANTA FE WAY

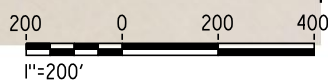
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR1980
SCALE
AS SHOWN
SHEET NO.
26 OF 35



COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.

LINE DATA

NO.	BEARING	DISTANCE
7	S44°16'17"E	26500.04'



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

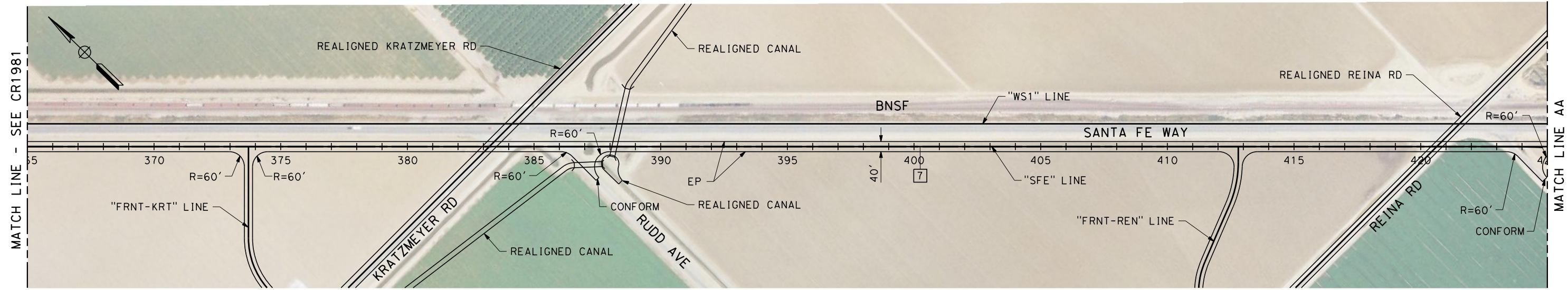
**NOT FOR
CONSTRUCTION**



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

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
ROADWAY LAYOUT
SANTA FE WAY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR1981
SCALE
AS SHOWN
SHEET NO.
27 OF 35

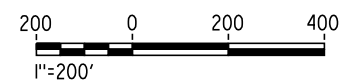


LINE DATA

NO.	BEARING	DISTANCE
7	S44°16'17"E	26500.04'
8	S36°29'17"E	373.32'
9	S44°22'10"E	864.07'

CURVE DATA

NO.	R	Δ	T	L	V
(7)	3000.00'	7°47'00"	204.08	407.54	65 MPH
(8)	3000.00'	7°52'52"	206.66	412.66	65 MPH



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

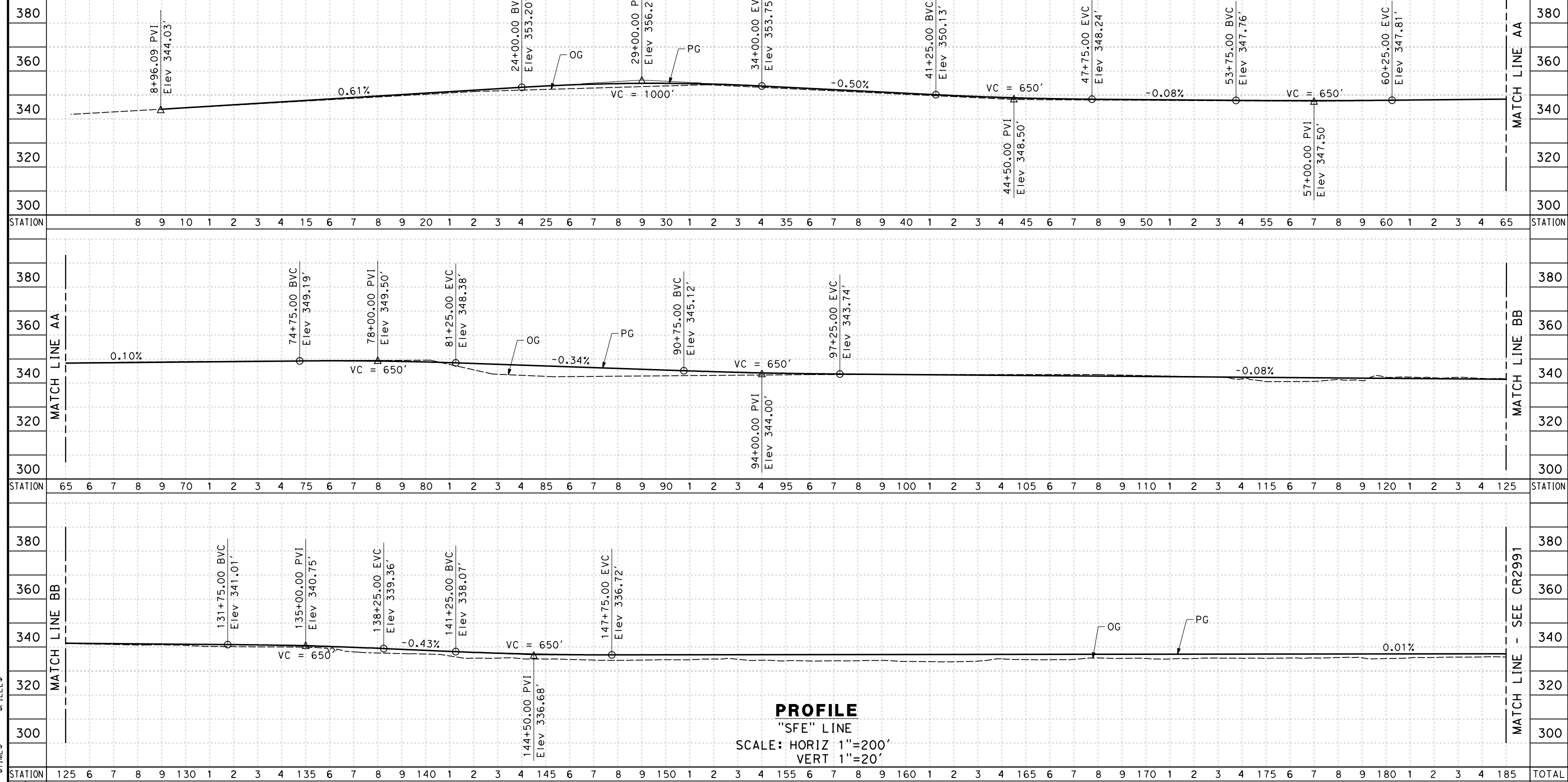
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
ROADWAY LAYOUT
SANTA FE WAY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR1982
SCALE
AS SHOWN
SHEET NO.
28 OF 35

NOTES:
 1. VERTICAL DESIGN SPEED = 65 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM



\$USER\$	\$DATE\$	\$TIME\$	\$FILEL\$
REV	DATE	BY	CHK
		APP	DESCRIPTION

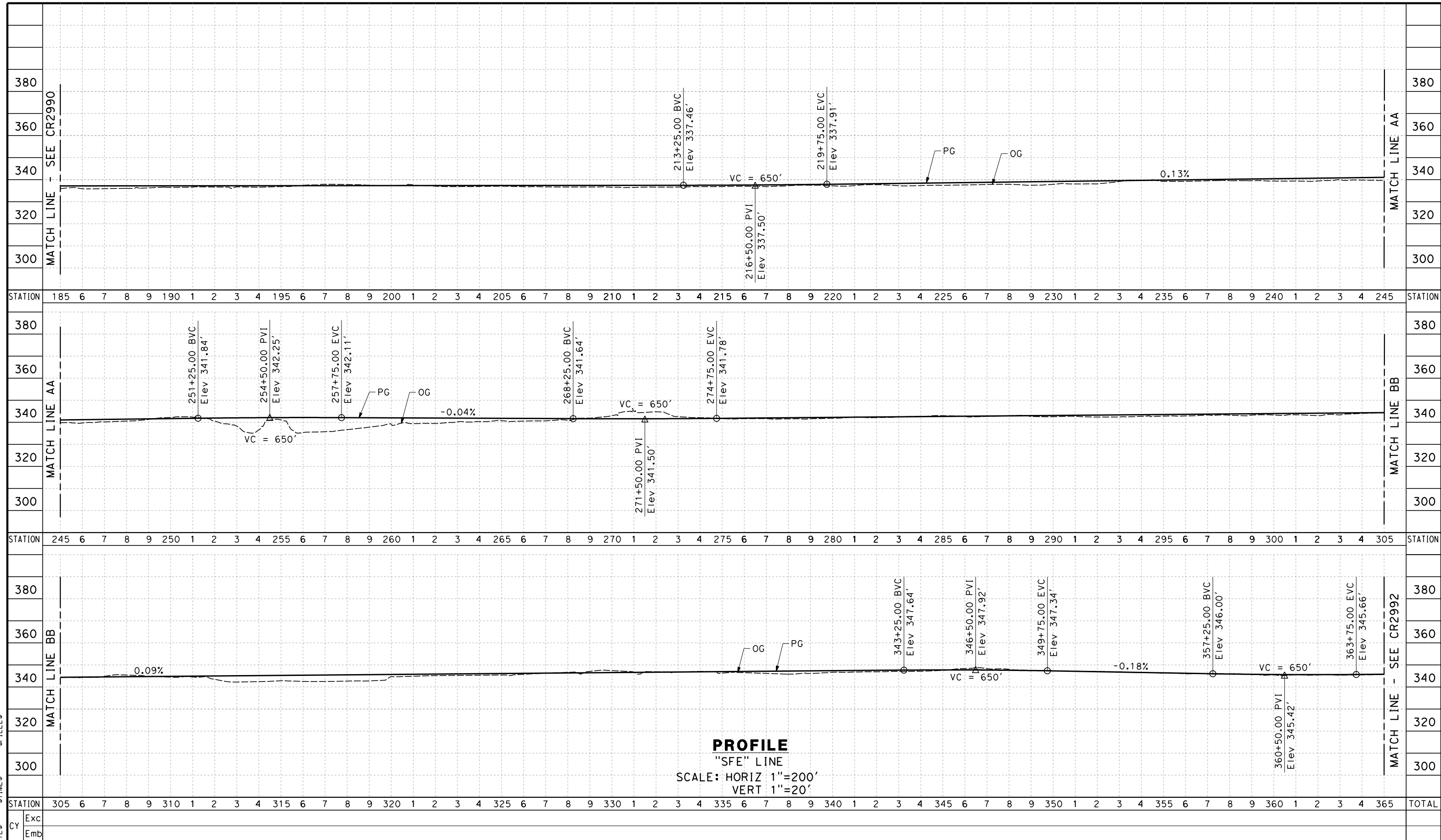
DESIGNED BY
J. NETTLETON
 DRAWN BY
V. ORTEGA
 CHECKED BY
B. RAWSON
 IN CHARGE
O. EARLE
 DATE
06/30/11

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



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 THROUGH WASCO-SHAFTER SUBSECTION
 ALIGNMENT WS1
 ROADWAY PROFILE
 SANTA FE WAY

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CR2990
 SCALE
AS SHOWN
 SHEET NO.
29 OF 35



\$USER\$ \$DATE\$ \$TIME\$ \$FILEL\$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 J. NETTLETON
 DRAWN BY
 V. ORTEGA
 CHECKED BY
 B. RAWSON
 IN CHARGE
 O. EARLE
 DATE
 06/30/11

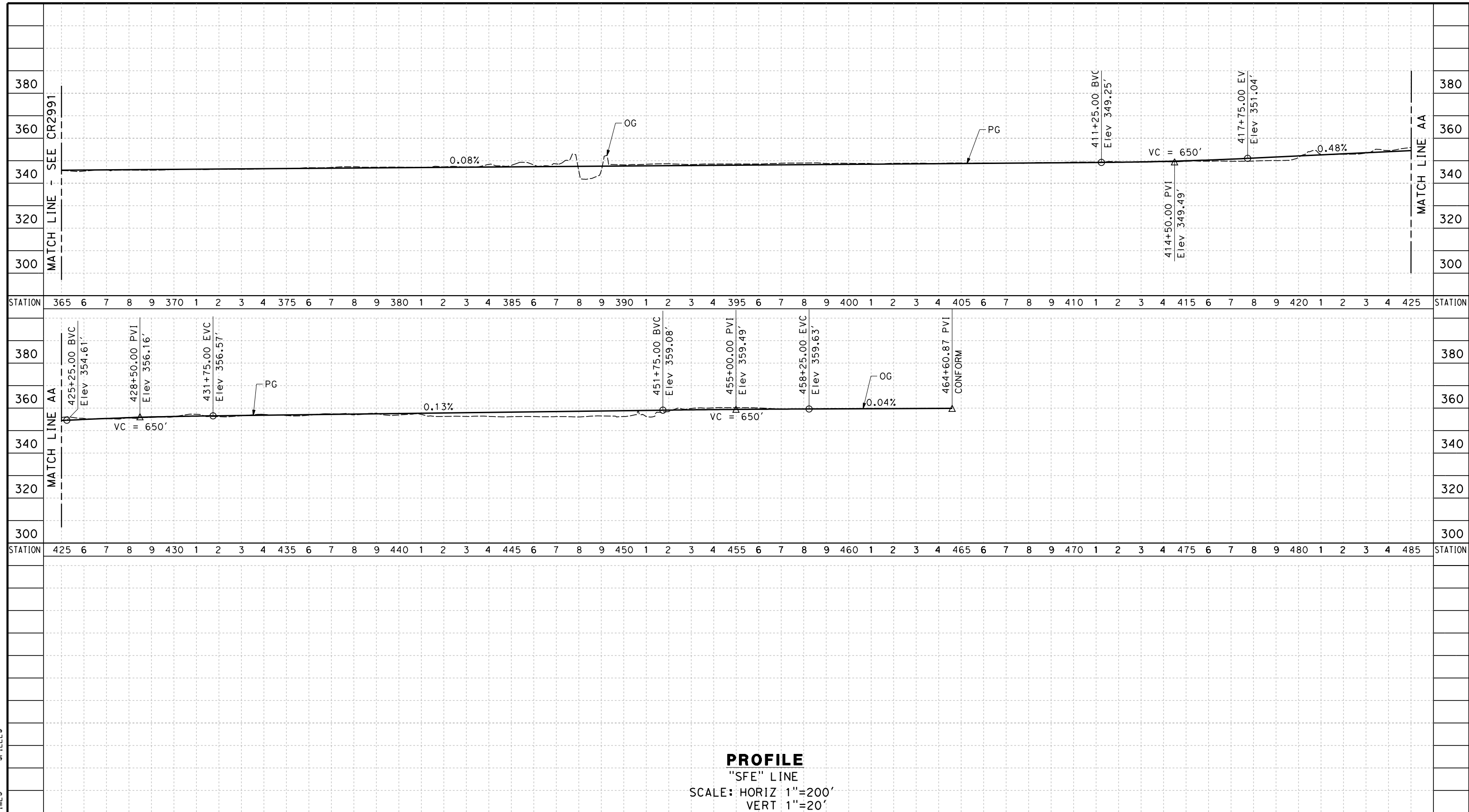
**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 THROUGH WASCO-SHAFTER SUBSECTION
 ALIGNMENT WS1
 ROADWAY PROFILE
 SANTA FE WAY

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CR2991
 SCALE
 AS SHOWN
 SHEET NO.
 30 OF 35



STATION											TOTAL
Exc											
Emb											

DESIGNED BY	J. NETTLETON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	06/30/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

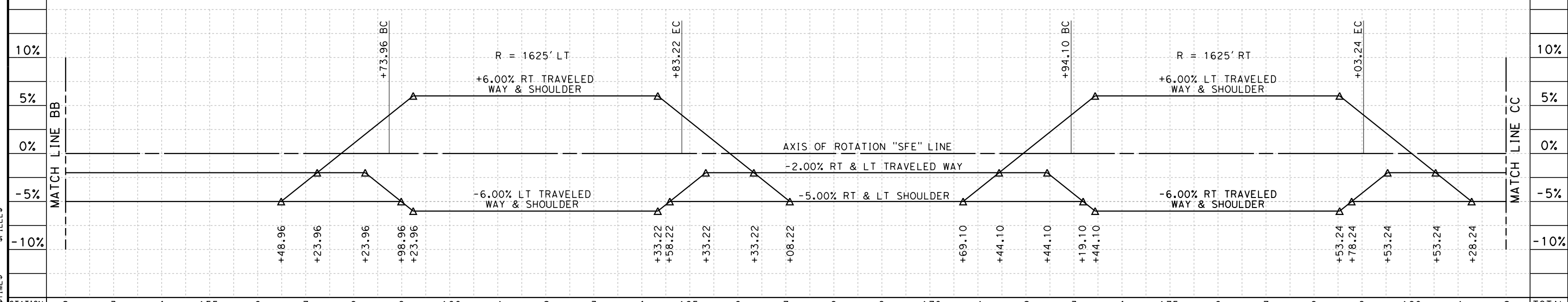
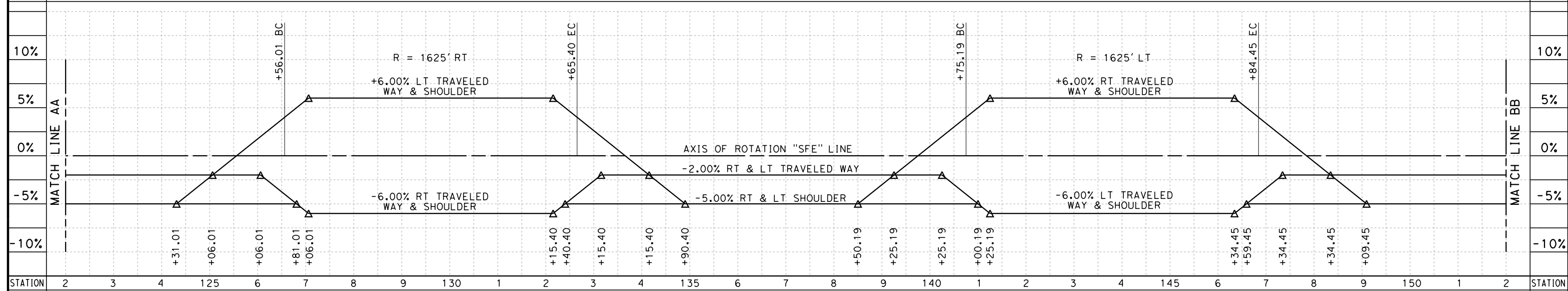
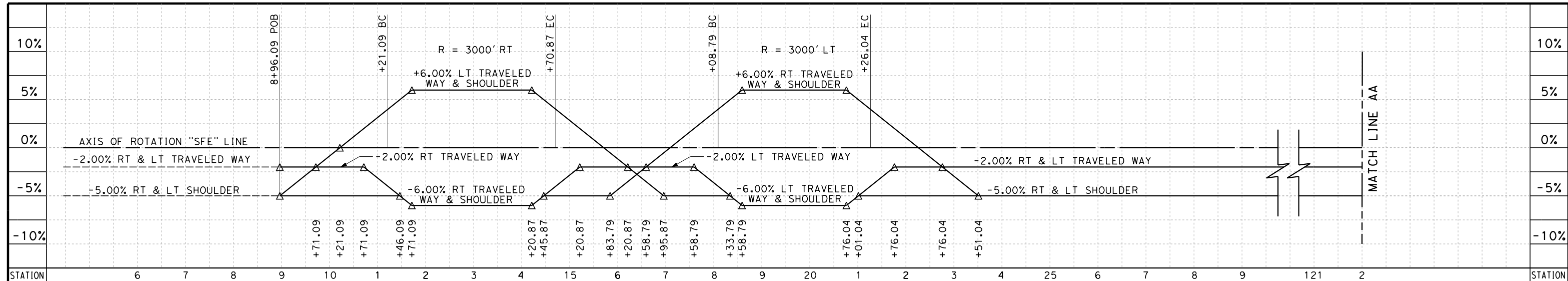


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION
 ALIGNMENT WS1
 ROADWAY PROFILE
 SANTA FE WAY

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CR2992
SCALE	AS SHOWN
SHEET NO.	31 OF 35

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



STATION	2	3	4	155	6	7	8	9	160	1	2	3	4	165	6	7	8	9	170	1	2	3	4	175	6	7	8	9	180	1	2	TOTAL
Exc																																
Emb																																

\$USER\$	\$DATE\$	\$TIME\$	\$FILEL\$		
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

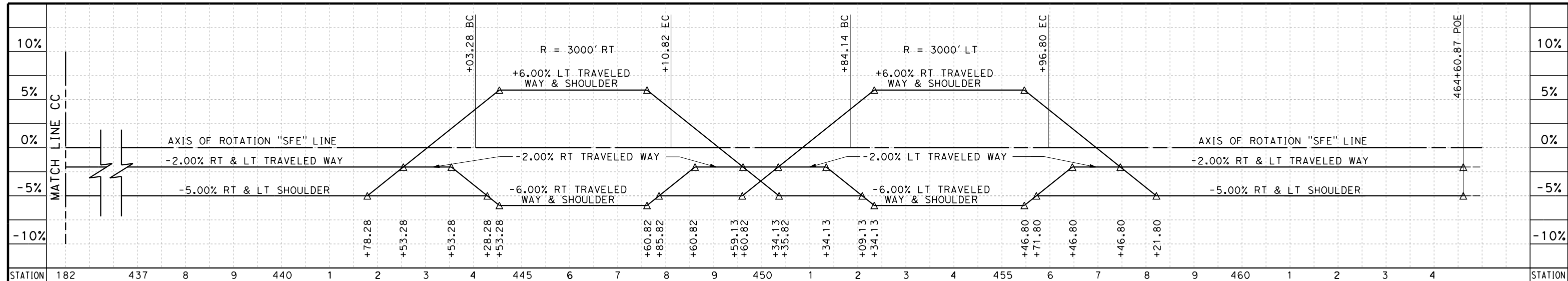
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
ROADWAY SUPERELEVATION DIAGRAM
SANTA FE WAY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR2993
SCALE
AS SHOWN
SHEET NO.
32 OF 35



STATION	182	437	8	9	440	1	2	3	4	445	6	7	8	9	450	1	2	3	4	455	6	7	8	9	460	1	2	3	4	STATION	
Exc																															
Emb																															
TOTAL																															

STATION		TOTAL
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
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
ROADWAY SUPERELEVATION DIAGRAM
SANTA FE WAY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR2994
SCALE
AS SHOWN
SHEET NO.
33 OF 35

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.

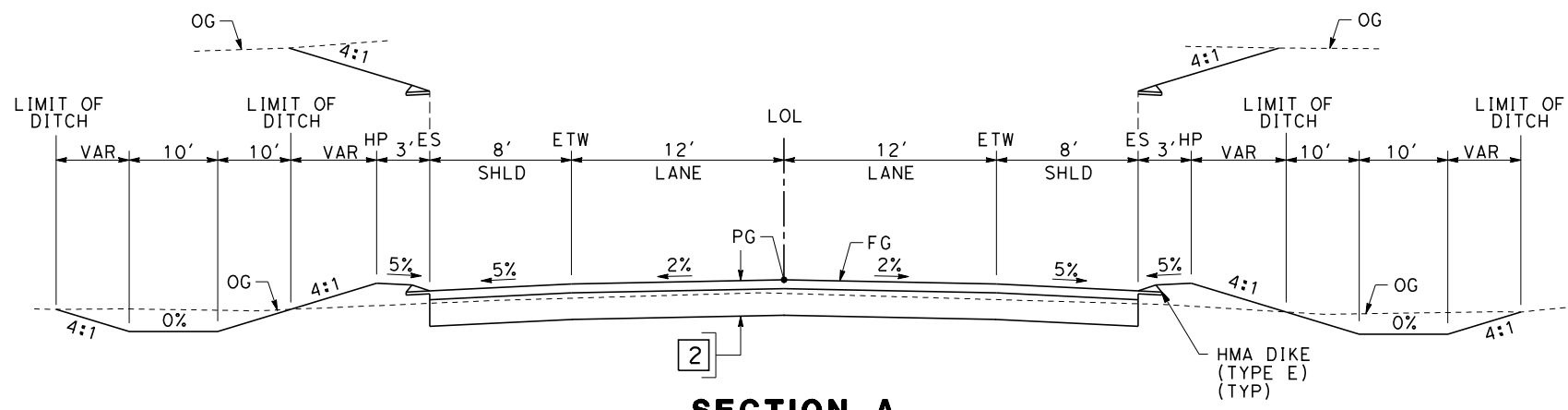
STRUCTURAL SECTIONS

TYPICAL ROADWAY (4' SHOULDER)

- 1 0.30' HMA (TYPE A)
- 1.40' CL 2 AB

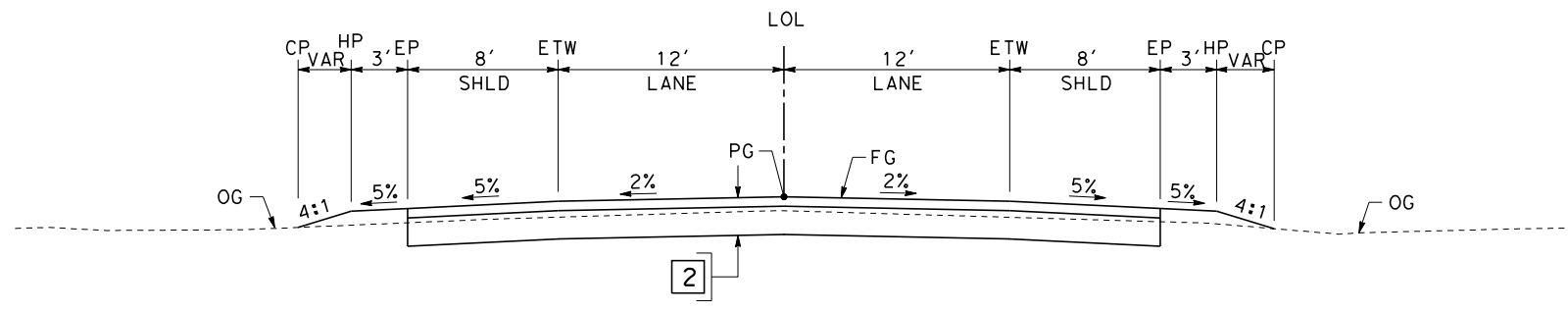
TYPICAL ROADWAY (8' SHOULDER)

- 2 0.40' HMA (TYPE A)
- 1.70' CL 2 AB



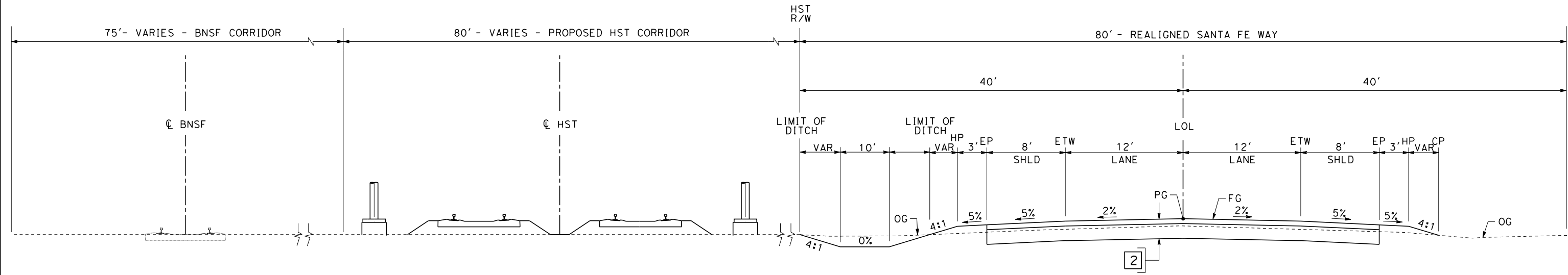
SECTION A

"MCA" 21+25.00 TO 34+41.28 "FRES" 34+82.39 TO 46+60.00
 "MCA" 37+10.28 TO 47+85.00 "KRT" 6+90 TO 17+82.13
 "FRES" 21+40.00 TO 31+15.57 "KRT" 21+84.06 TO 32+75.00



SECTION B

"MCA" 10+50.00 TO 21+25.00 "FRES" 10+00.00 TO 21+40.00
 "MCA" 47+85.00 TO 50+43.46 "FRES" 46+60.00 TO 47+10.00
 "KBA" 10+92.00 TO 11+25.00 "KRT" 6+40.00 TO 6+90.00
 "KBA" 29+75.00 TO 30+25.00 "KRT" 32+75.00 TO 33+25.00



SECTION C

"SFE" 10+00.00 TO 463+05.87

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
 DRAWN BY
V. ORTEGA
 CHECKED BY
B. RAWSON
 IN CHARGE
O. EARLE
 DATE
06/30/11

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

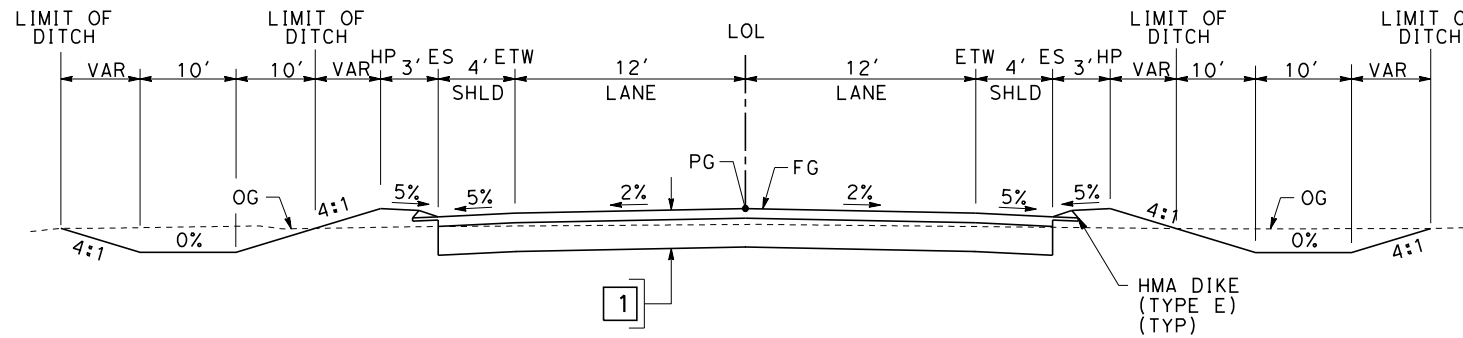


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 THROUGH WASCO-SHAFTER SUBSECTION
 ALIGNMENT WS1
 ROADWAY/GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT3130
 SCALE
AS SHOWN
 SHEET NO.
34 OF 35

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.



SECTION D

STRUCTURAL SECTIONS

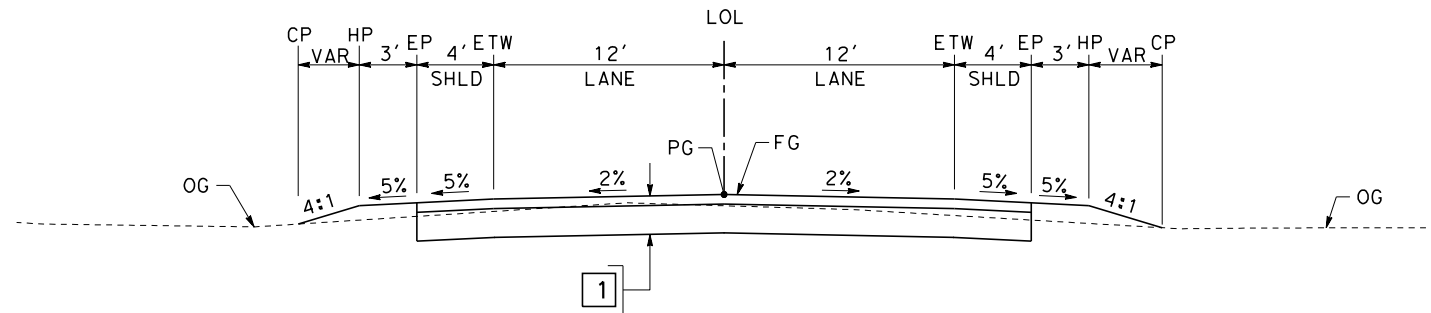
TYPICAL ROADWAY (4' SHOULDER)

- 1 0.30' HMA (TYPE A)
- 1.40' CL 2 AB

TYPICAL ROADWAY (8' SHOULDER)

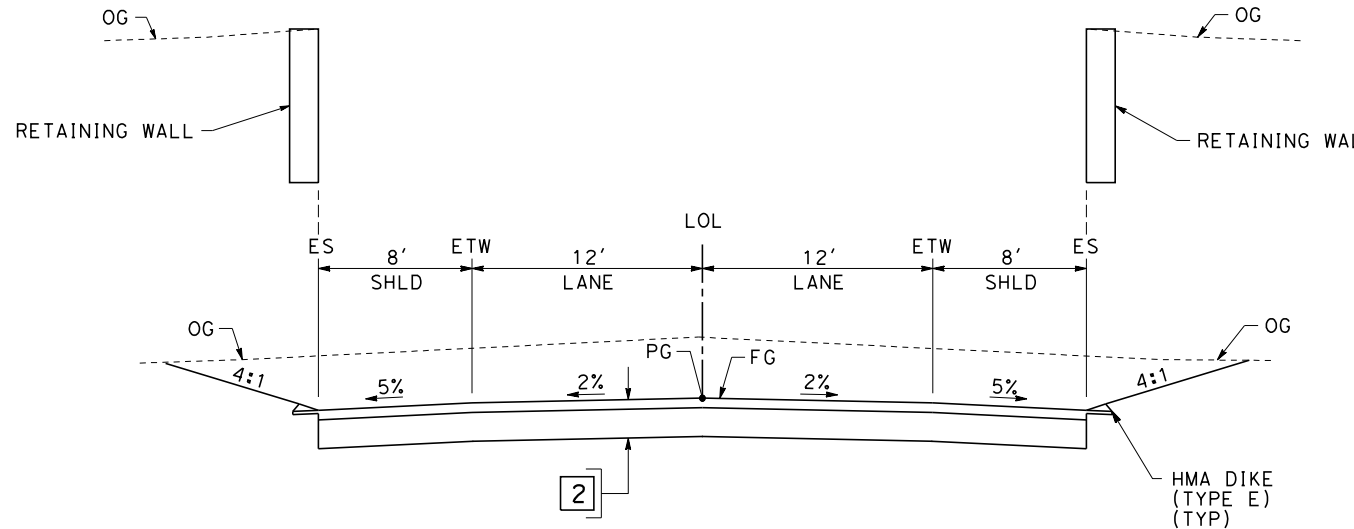
- 2 0.40' HMA (TYPE A)
- 1.70' CL 2 AB

"MER" 13+25.00 TO 22+06.07	"POP" 31+03.97 TO 40+60.00	"BUR" 17+31.96 TO 27+90.00	"REN" 21+74.13 TO 32+25.00
"MER" 27+07.64 TO 38+75.00	"FRNT-POP" 10+00.00 TO 15+00.00	"FRNT-KRTZ" 0+00.00 TO 2+60.29	"FRNT-REN" 0+00.00 TO 3+50.00
"POP" 15+40.00 TO 26+59.97	"BUR" 2+65.00 TO 13+70.79	"REN" 6+75.00 TO 17+72.13	



SECTION E

"MER" 10+50.00 TO 13+25.00	"POP" 40+60.00 TO 41+10.00	"BUR" 27+90.00 TO 34+76.08	"REN" 4+75.00 TO 6+75.00
"MER" 38+75.00 TO 47+50.00	"FRONT-POP" 15+00.00 TO 15+50.00	"BUR-W" 11+00.00 TO 13+43.36	"REN" 32+25.00 TO 34+25.00
"POP" 14+90.00 TO 15+40.00	"BUR" 0+10.80 TO 2+65.00	"FRNT-KRTZ" 2+60.29 TO 7+59.19	"FRNT-REN" 3+50.00 TO 8+85.15



SECTION F

"KBA" 11+25.00 TO 29+75.00

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

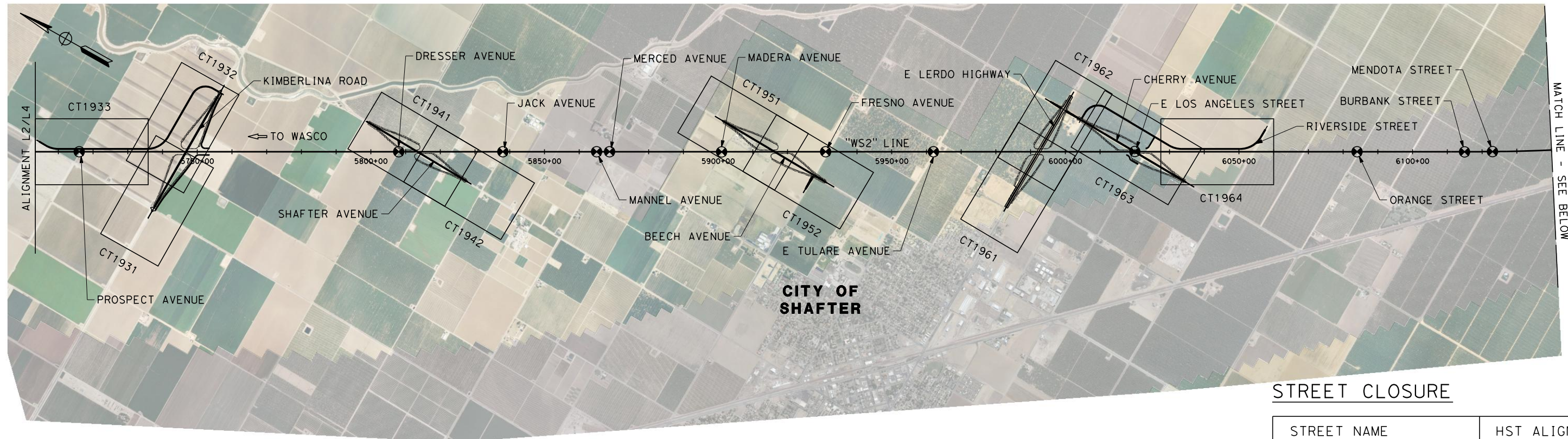


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION
ALIGNMENT WS1
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

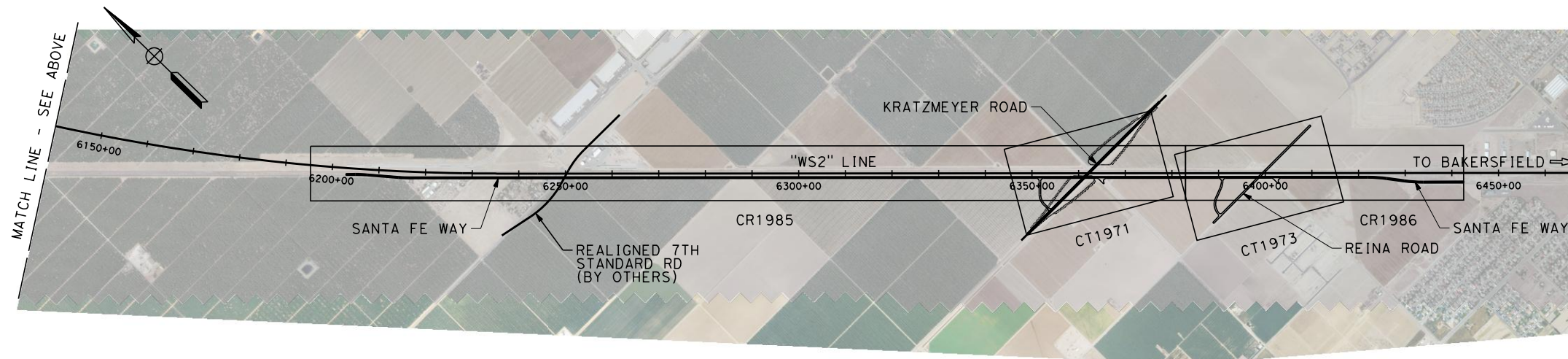
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3131
SCALE
AS SHOWN
SHEET NO.
35 OF 35

5/13/2011 8:27:20 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-0180.dgn



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
PROSPECT AVENUE	5716+00.00
DRESSER AVENUE	5808+00.00
JACK AVENUE	5838+00.00
MANNEL AVENUE	5865+00.00
MERCED AVENUE	5868+00.00
MADERA AVENUE	5901+00.00
FRESNO AVENUE	5931+00.00
E TULARE AVENUE	5962+00.00
E LOS ANGELES STREET	6020+00.00
ORANGE STREET	6084+00.00
BURBANK STREET	6115+00.00
MENDOTA STREET	6123+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
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

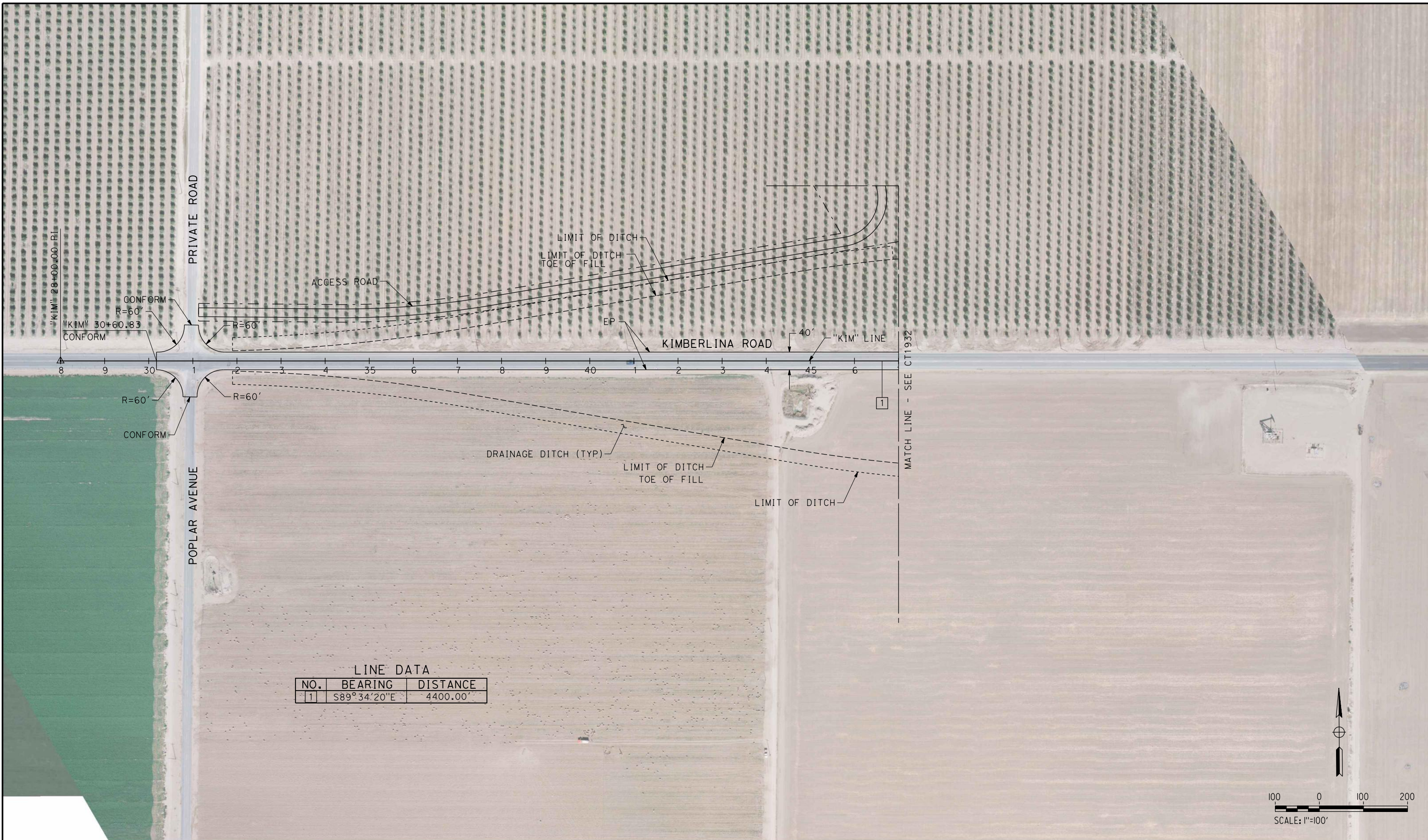
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0180
SCALE
AS SHOWN
SHEET NO.
1 OF 44

6/28/2011 7:40:13 PM HSTFB_WS2_KIM_L01.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°34'20"E	4400.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

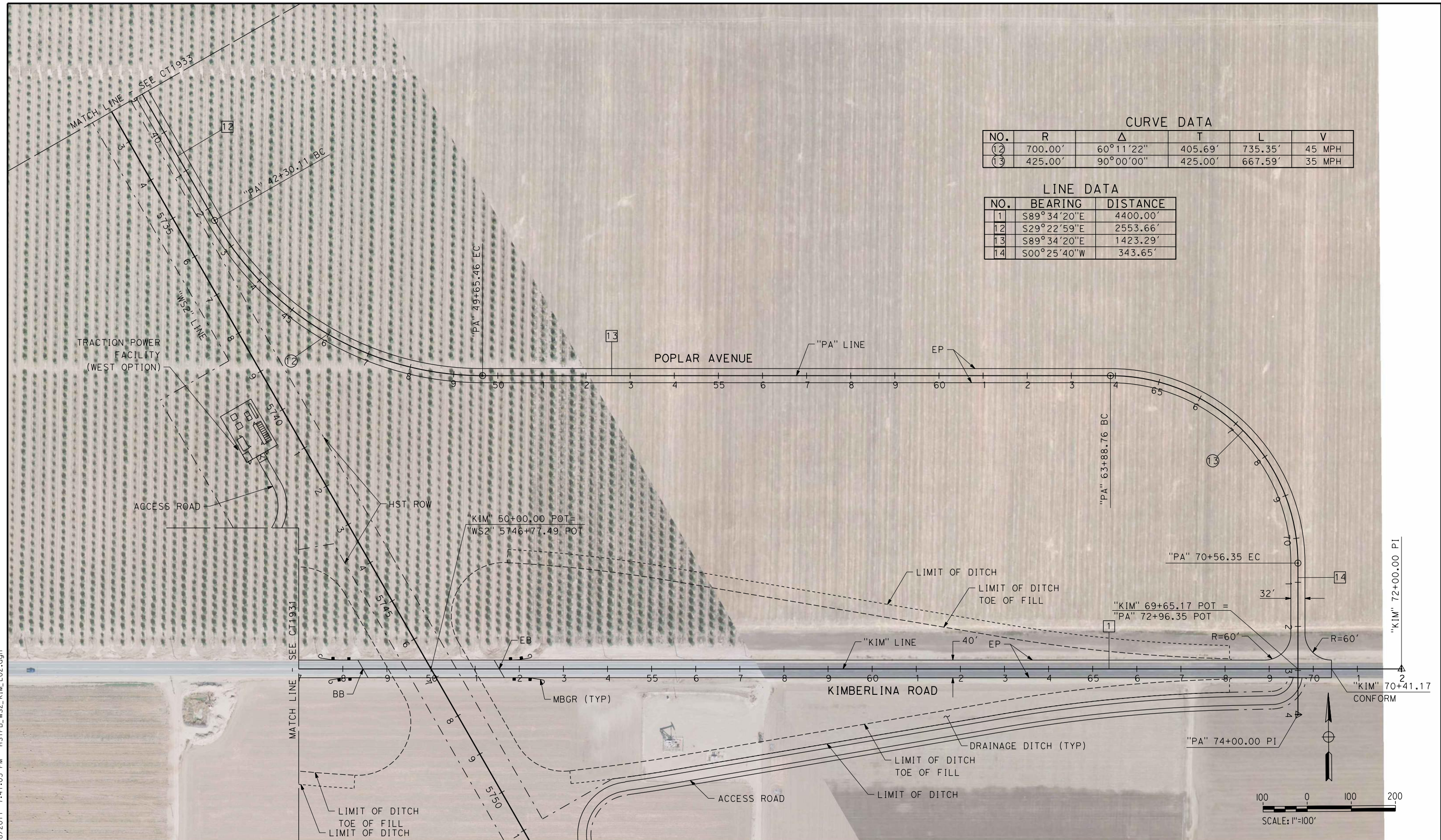
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
KIMBERLINA RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1931
SCALE
AS SHOWN
SHEET NO.
2 OF 44

6/28/2011 7:41:03 PM HSTFB_WS2_KIM_L02.dgn



CURVE DATA

NO.	R	Δ	T	L	V
12	700.00'	60°11'22"	405.69'	735.35'	45 MPH
13	425.00'	90°00'00"	425.00'	667.59'	35 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S89°34'20"E	4400.00'
12	S29°22'59"E	2553.66'
13	S89°34'20"E	1423.29'
14	S00°25'40"W	343.65'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
KIMBERLINA RD & POPLAR AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1932
SCALE
AS SHOWN
SHEET NO.
3 OF 44

5/12/2011 1:10:36 PM HSTFB_WS2_PA_L01.dgn

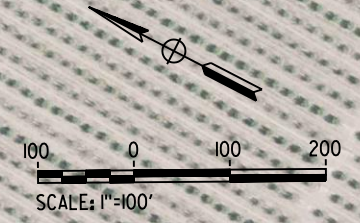


CURVE DATA

NO.	R	Δ	T	L	V
(1)	700.00'	30°48'46"	192.90'	376.45'	45 MPH

LINE DATA

NO.	BEARING	DISTANCE
11	S01°25'47"W	300.00'
12	S29°22'59"E	2553.66'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

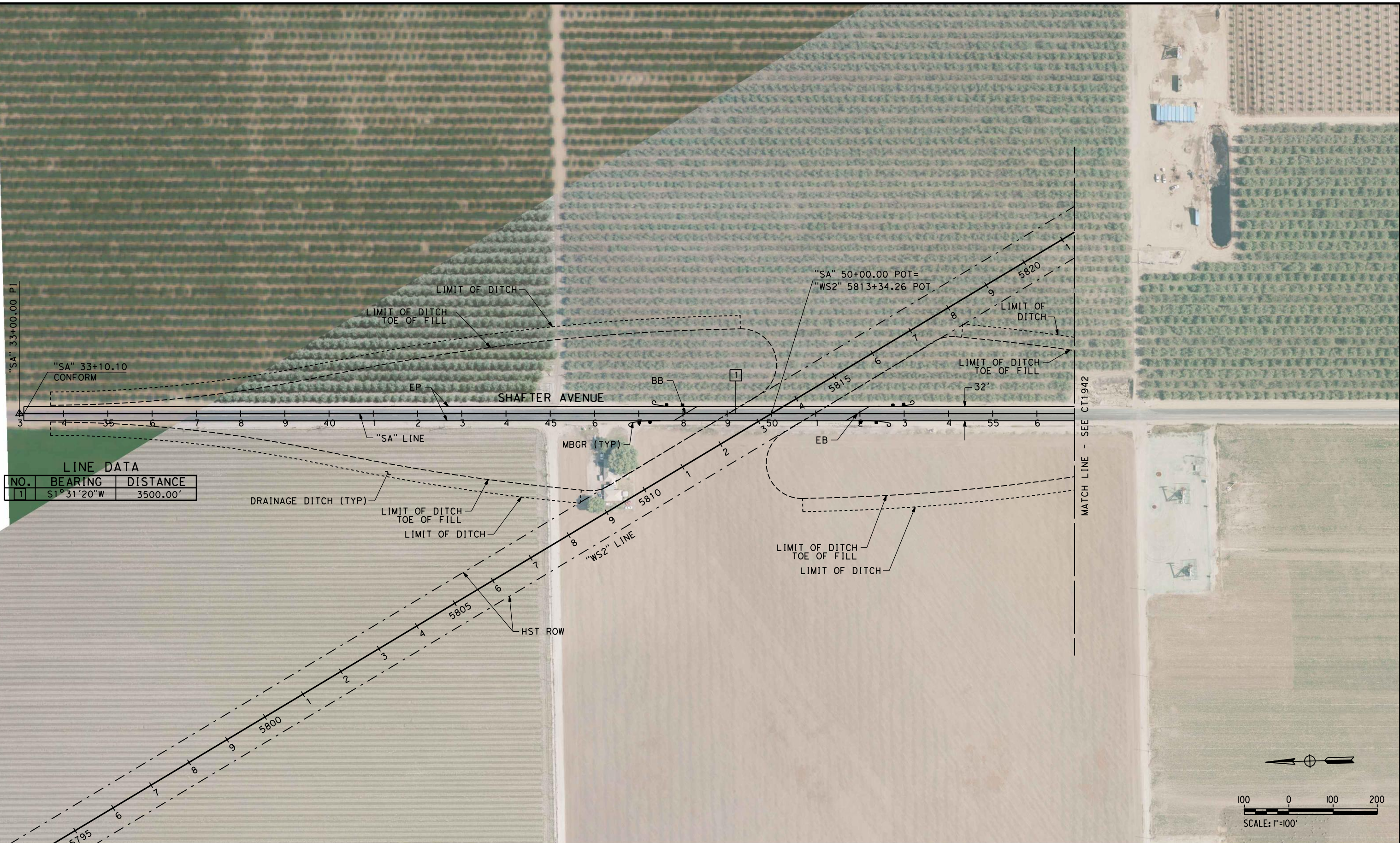
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
POPLAR AVE

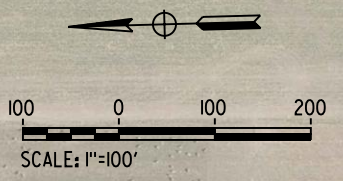
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1933
SCALE
AS SHOWN
SHEET NO.
4 OF 44

5/12/2011 1:10:54 PM HSTFB_WS2_SA_L01.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S1°31'20"W	3500.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

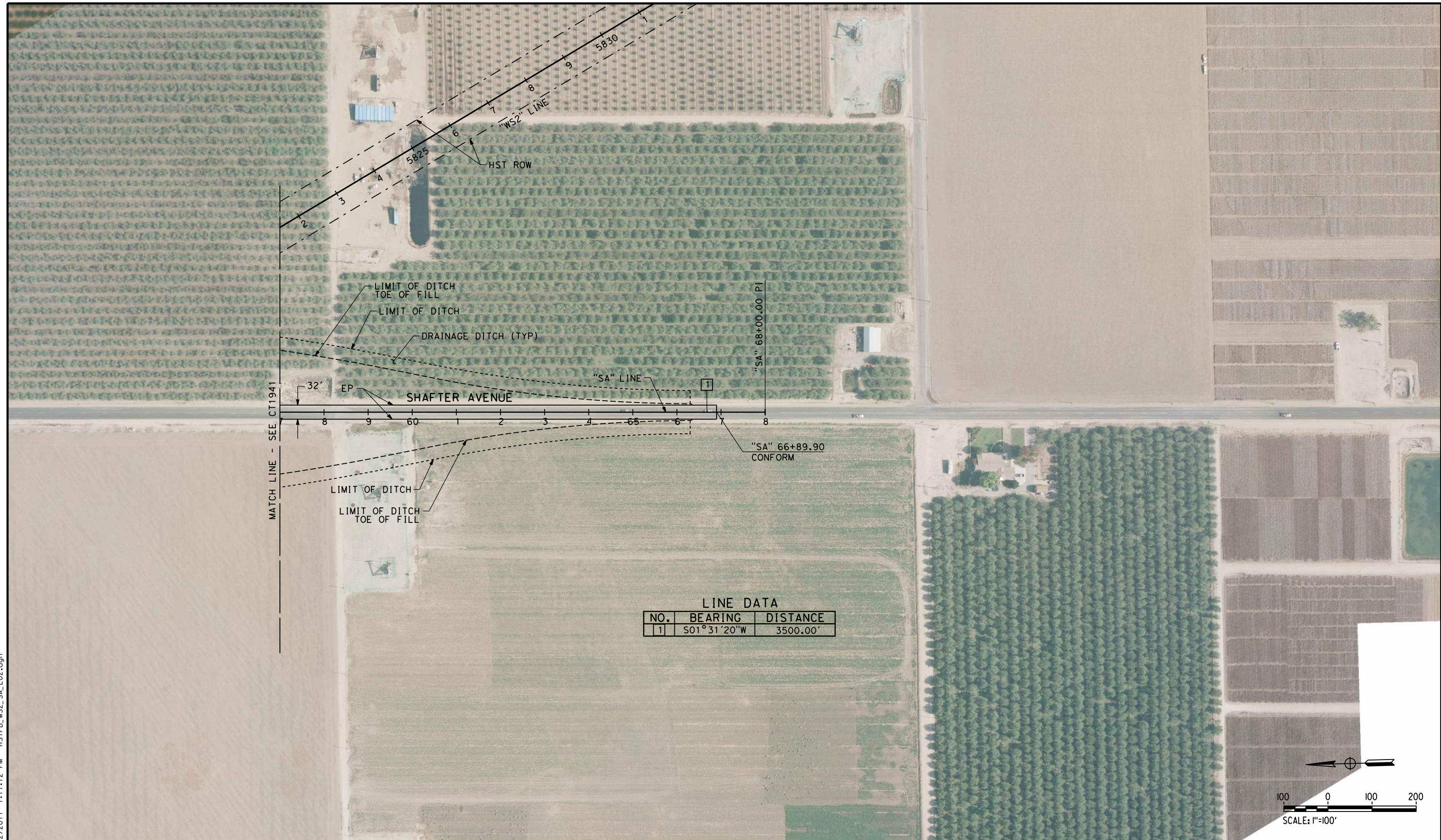
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
SHAFTER AVE

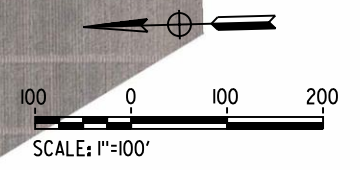
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1941
SCALE
AS SHOWN
SHEET NO.
5 OF 44

5/12/2011 1:11:12 PM HSTFB_WS2_SA_L02.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S01°31'20"W	3500.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
SHAFTER AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1942
SCALE
AS SHOWN
SHEET NO.
6 OF 44

LINE DATA

NO.	BEARING	DISTANCE
1	S01°23'52"W	4000.00'



5/12/2011 1:11:33 PM HSTFB_WS2_BA_L01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
BEECH AVE

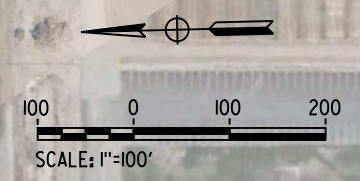
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1951
SCALE
AS SHOWN
SHEET NO.
7 OF 44

5/12/2011 1:11:51 PM HSTFB_WS2_BA_L02.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S01°23'52"W	4000.00'
11	S89°05'21"E	600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
BEECH AVE & FRESNO AVE

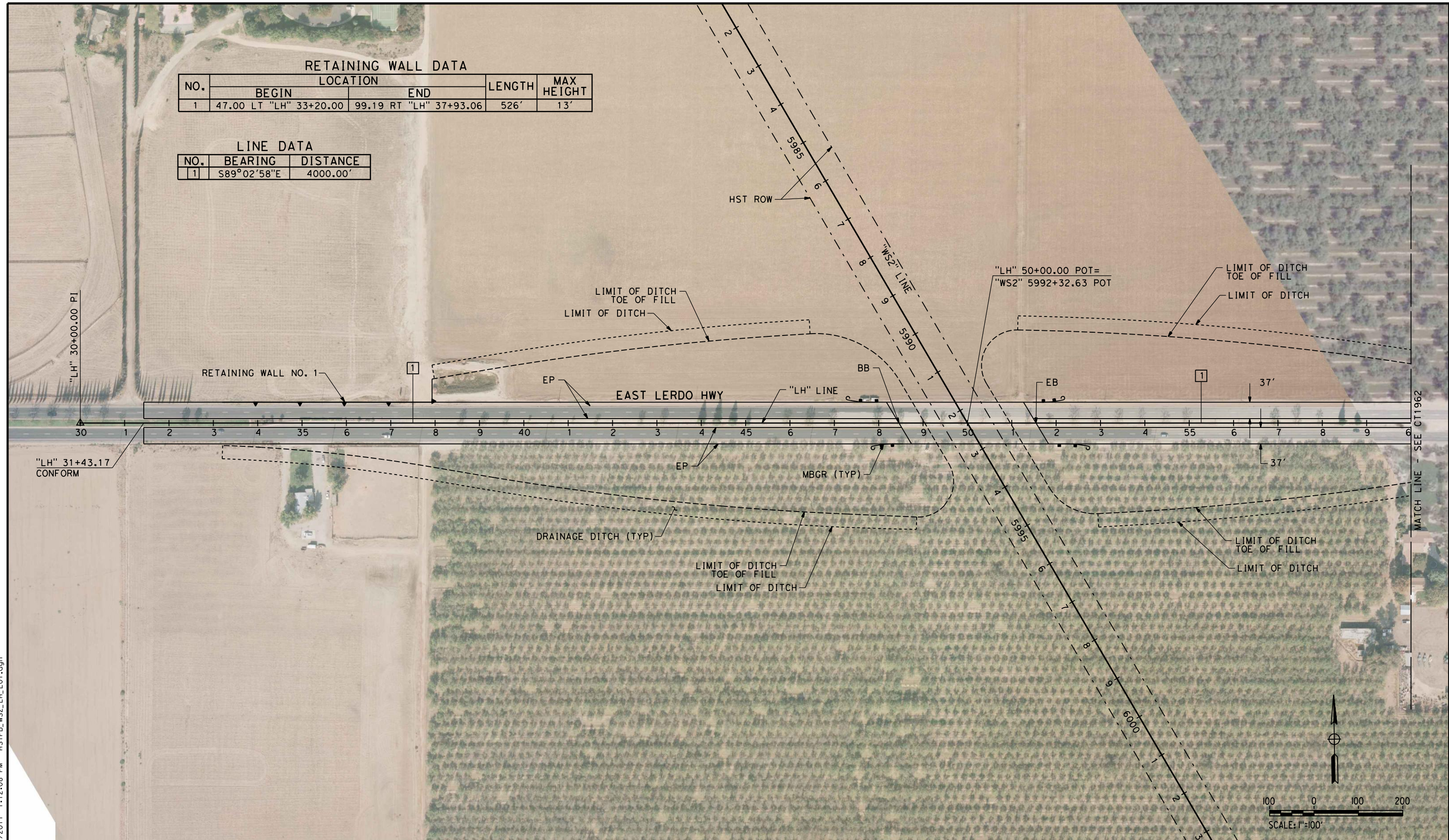
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1952
SCALE
AS SHOWN
SHEET NO.
8 OF 44

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	47.00 LT "LH" 33+20.00	99.19 RT "LH" 37+93.06	526'	13'

LINE DATA

NO.	BEARING	DISTANCE
1	S89°02'58"E	4000.00'



5/12/2011 1:12:08 PM HSTFB_WS2_LH_L01.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



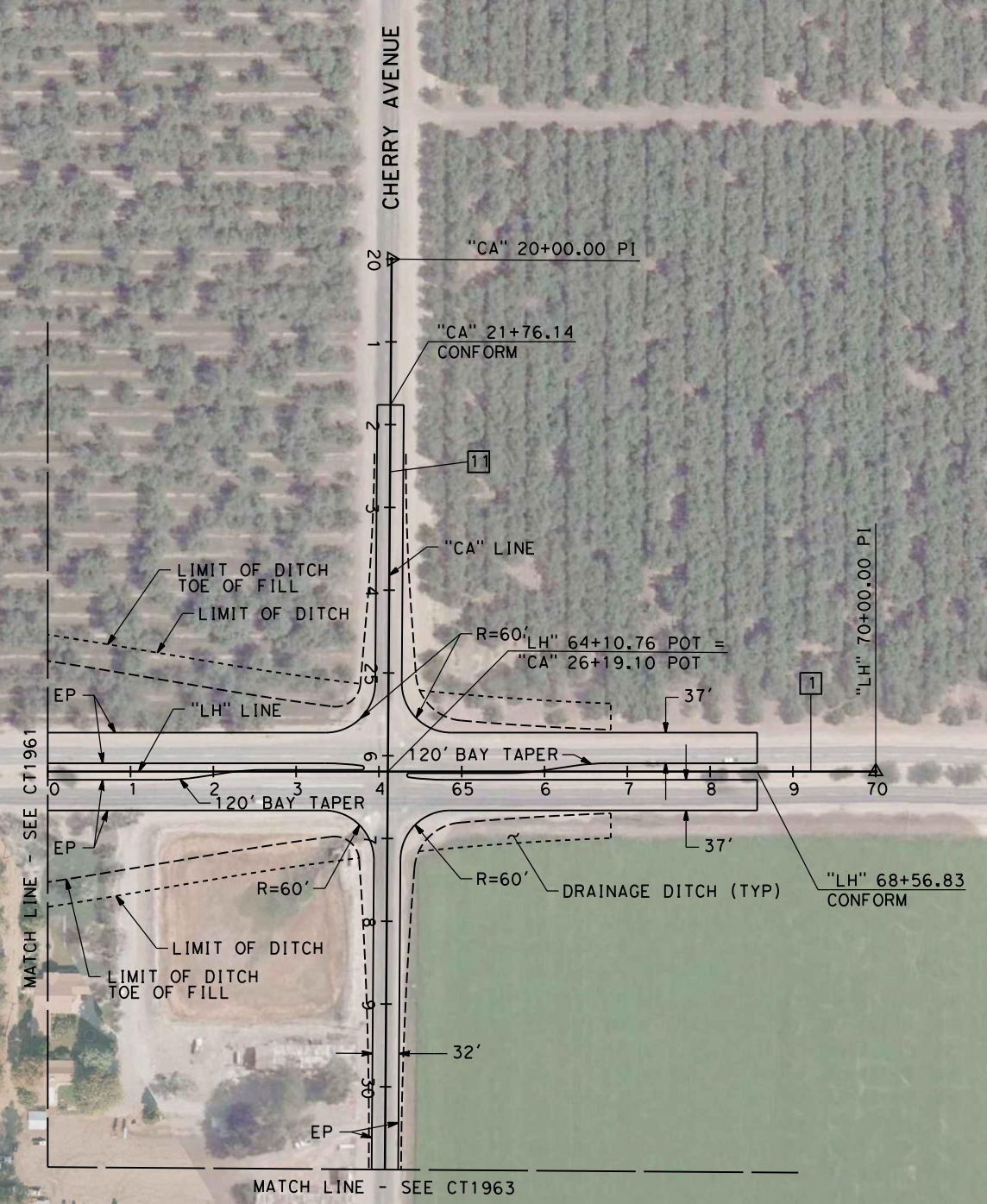
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
EAST LERDO HWY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1961
SCALE
AS SHOWN
SHEET NO.
9 OF 44

carlton_allen 5/12/2011 1:12:25 PM HSTFB_WS2_LH_L02.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	S89°02'58"E	4000.00'
11	S11°22'30"W	5000.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT

FRESNO TO BAKERSFIELD

WASCO-SHAFTER BYPASS SUBSECTION

ALIGNMENT WS2

GRADE SEPARATION LAYOUT

EAST LERDO HWY & CHERRY AVE

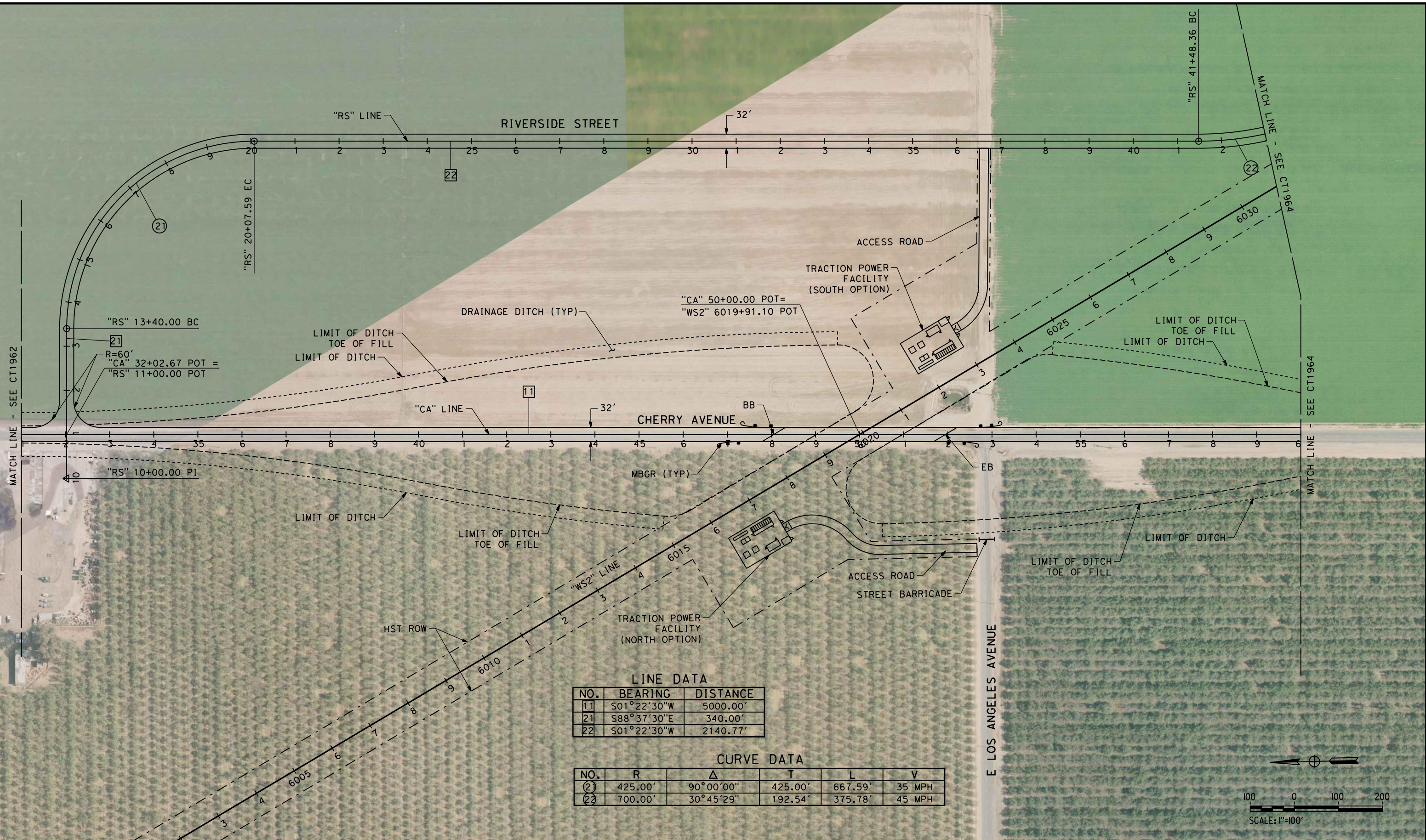
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1962

SCALE
AS SHOWN

SHEET NO.
10 OF 44

5/12/2011 1:12:45 PM HSTFB_WS2_CA_L01.dgn

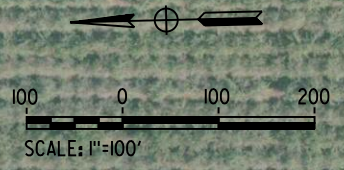


LINE DATA

NO.	BEARING	DISTANCE
11	S01°22'30"W	5000.00'
21	S88°37'30"E	340.00'
22	S01°22'30"W	2140.77'

CURVE DATA

NO.	R	Δ	T	L	V
(21)	425.00'	90°00'00"	425.00'	667.59'	35 MPH
(22)	700.00'	30°45'29"	192.54'	375.78'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
CHERRY AVE & RIVERSIDE ST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1963
SCALE
AS SHOWN
SHEET NO.
11 OF 44

5/12/2011 1:13:04 PM HSTFB_WS2_CA_L02.dgn carlton_allen

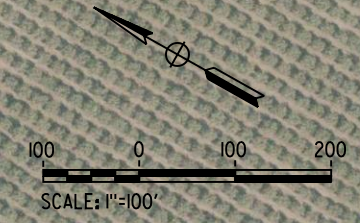


LINE DATA

NO.	BEARING	DISTANCE
11	S01°22'30"W	5000.00'
23	S29°22'59"E	1679.35'
24	S89°03'41"E	367.40'

CURVE DATA

NO.	R	Δ	T	L	V
(22)	700.00'	30°45'29"	192.54'	375.78'	45 MPH
(23)	700.00'	59°40'42"	401.53'	729.11'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

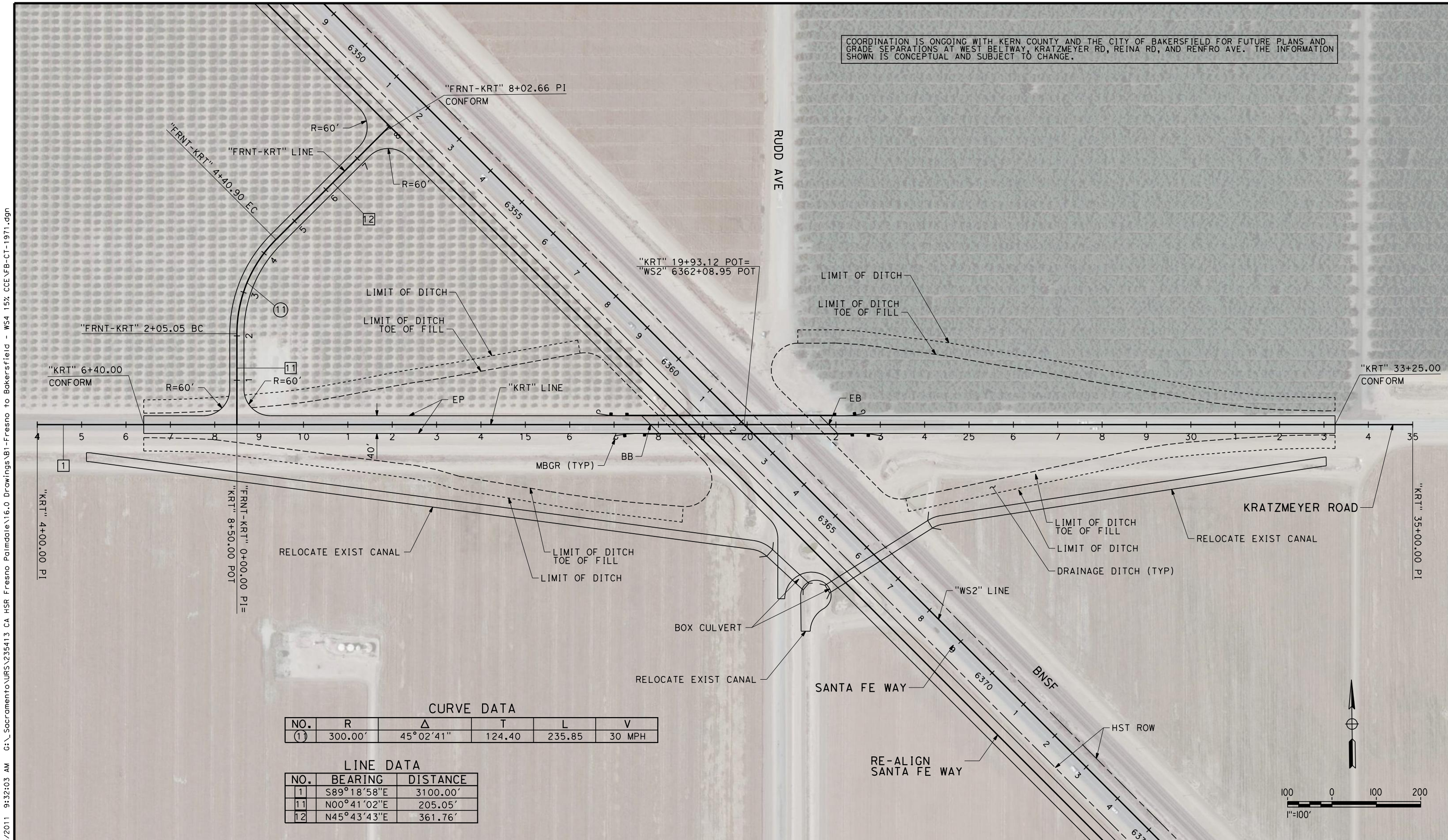
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
CHERRY AVE & RIVERSIDE ST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1964
SCALE
AS SHOWN
SHEET NO.
12 OF 44

COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.

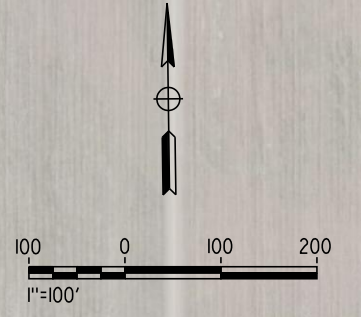


CURVE DATA

NO.	R	Δ	T	L	V
(1)	300.00'	45° 02' 41"	124.40	235.85	30 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S89° 18' 58" E	3100.00'
11	N00° 41' 02" E	205.05'
12	N45° 43' 43" E	361.76'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

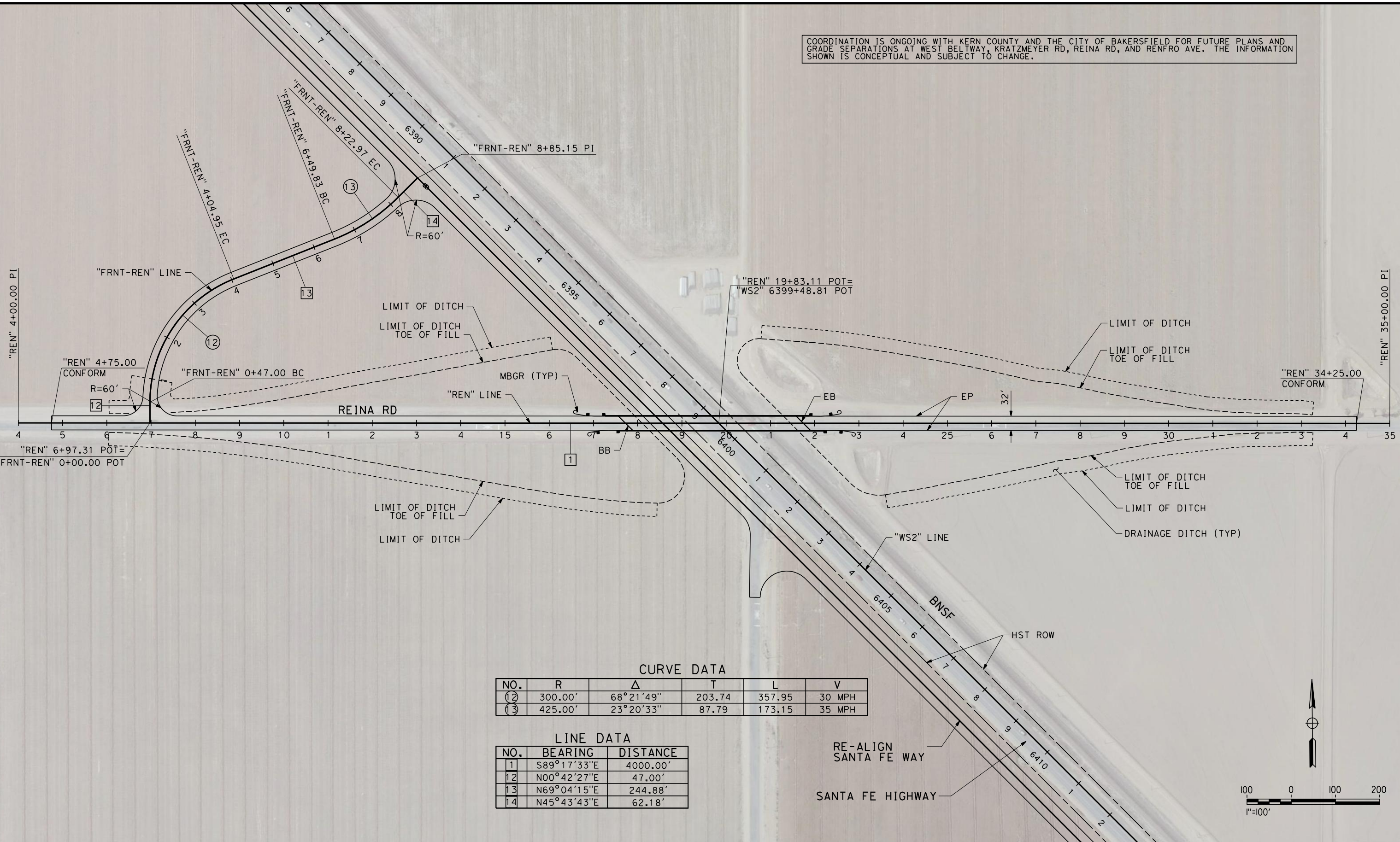


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
KRATZMEYER ROAD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1971
SCALE
AS SHOWN
SHEET NO.
13 OF 44

6/29/2011 9:32:03 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1971.dgn

COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.

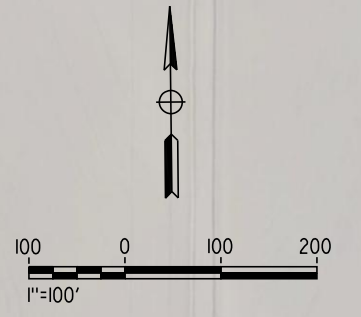


CURVE DATA

NO.	R	Δ	T	L	V
(12)	300.00'	68°21'49"	203.74	357.95	30 MPH
(13)	425.00'	23°20'33"	87.79	173.15	35 MPH

LINE DATA

NO.	BEARING	DISTANCE
1	S89°17'33"E	4000.00'
12	N00°42'27"E	47.00'
13	N69°04'15"E	244.88'
14	N45°43'43"E	62.18'



6/29/2011 10:00:34 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1973.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

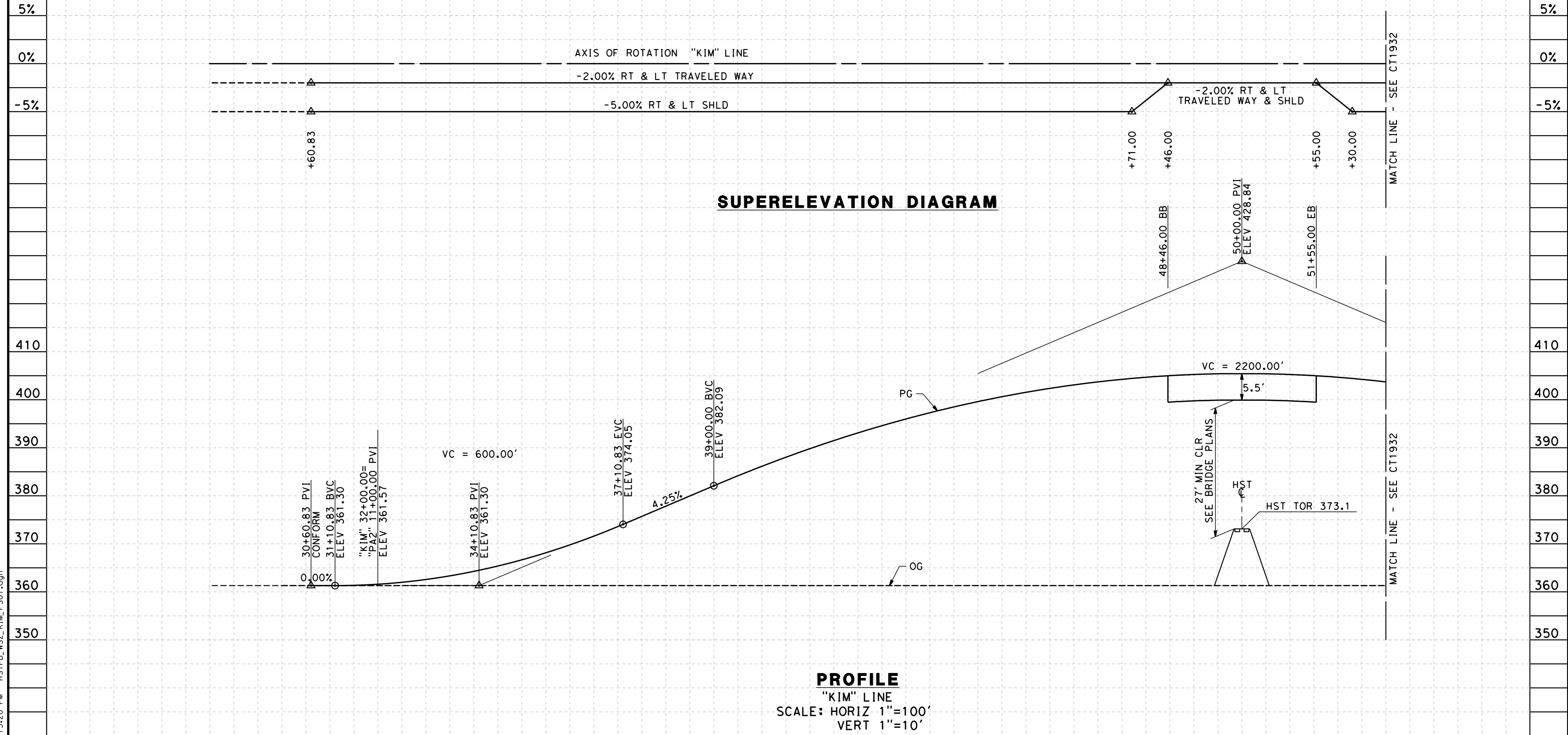
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEPARATION LAYOUT
REINA ROAD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1973
SCALE
AS SHOWN
SHEET NO.
14 OF 44

- NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 2. VERTICAL DESIGN SPEED = 60 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



PROFILE
 "KIM" 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	6	7	8	9	50	1	2	3	TOTAL
Exc																											
Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
KIMBERLINA RD

CONTRACT NO.
HSR 06-0003

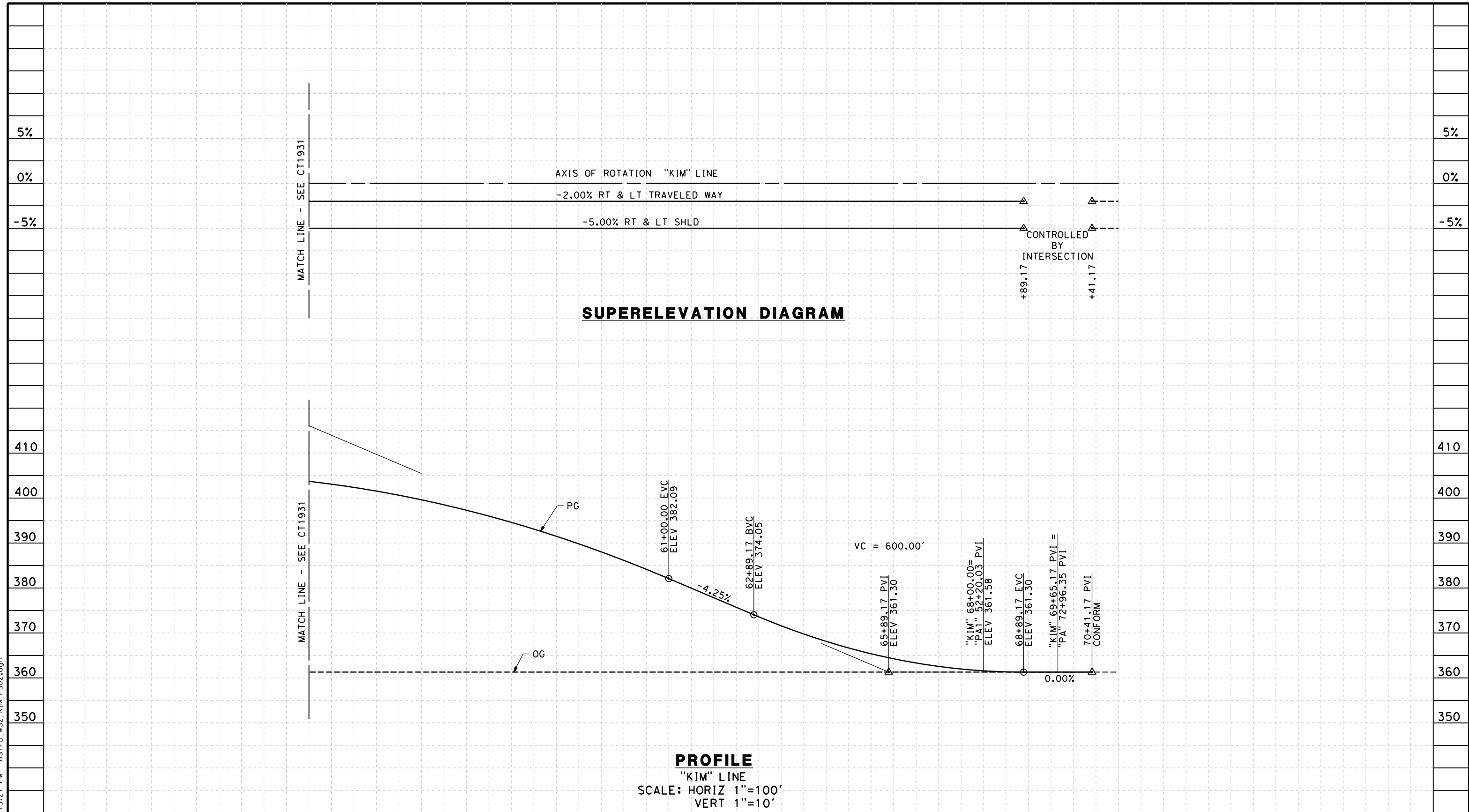
DRAWING NO.
CT2931

SCALE
AS SHOWN

SHEET NO.
15 OF 44

5/12/2011 1:13:20 PM HSTFB_WS2_KIM_PS01.dgn

5/12/2011 1:13:27 PM HSTFB_WS2_KIM_PS02.dgn



STATION	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	TOTAL	
Exc																					
Emb																					

DESIGNED BY C. ALLEN	RECORD SET 15% DESIGN SUBMISSION	
DRAWN BY M. POLISCHUK	NOT FOR CONSTRUCTION	
CHECKED BY J. LABANOWSKI		
IN CHARGE G. HORTON		
DATE 05/13/11		

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

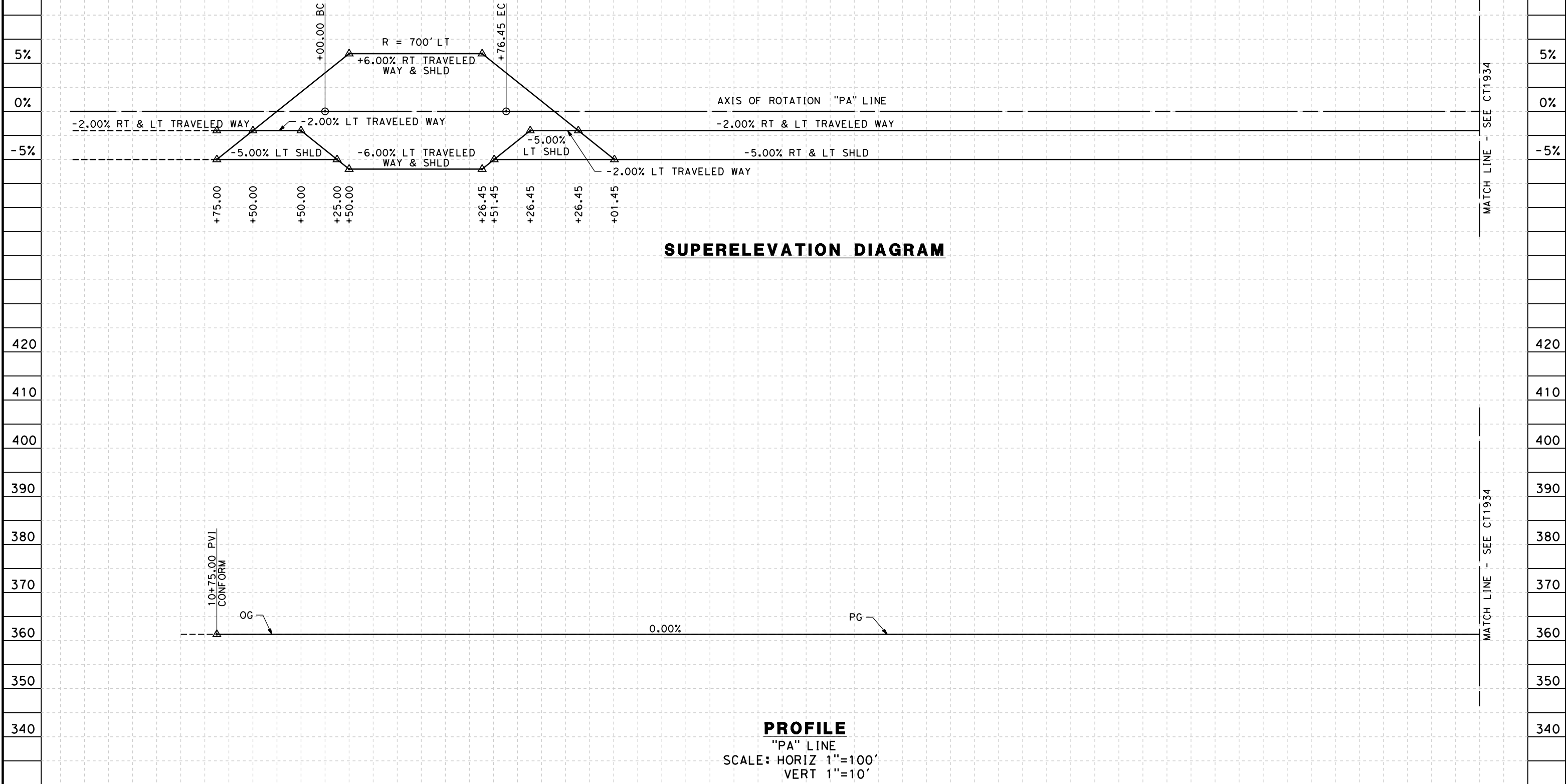
URS | HMM | ARUP

CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 KIMBERLINA RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2932
SCALE AS SHOWN
SHEET NO. 16 OF 44

- 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	6	7	TOTAL
Exc																													
Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

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

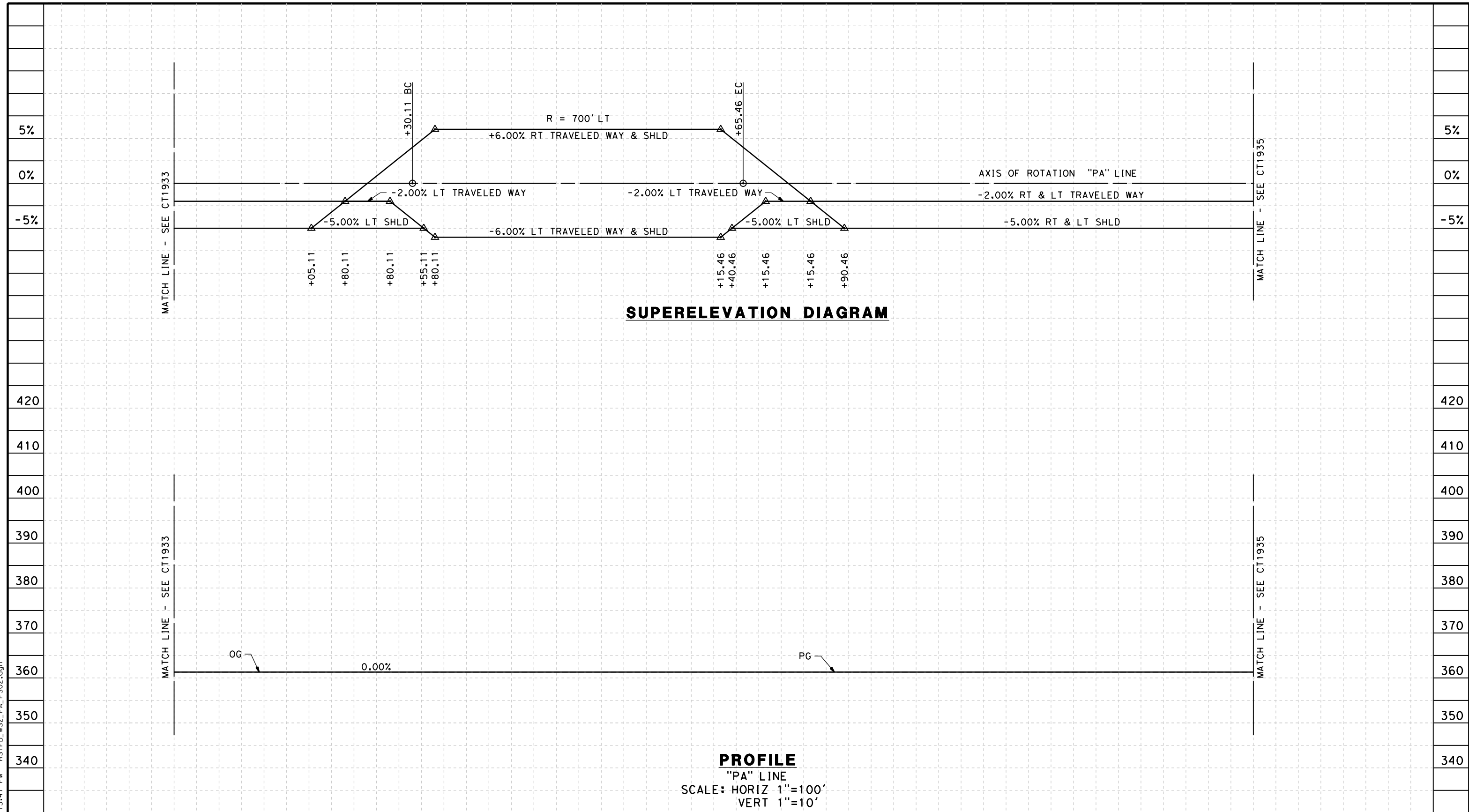


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 POPLAR AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2933
 SCALE
AS SHOWN
 SHEET NO.
17 OF 44

5/12/2011 1:13:34 PM HSTFB_WS2_PA_PS01.dgn

5/12/2011 1:13:47 PM HSTFB_WS2_PA_PS02.dgn



SUPERELEVATION DIAGRAM

PROFILE

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

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	TOTAL	
Exc																											
Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
POPLAR AVE

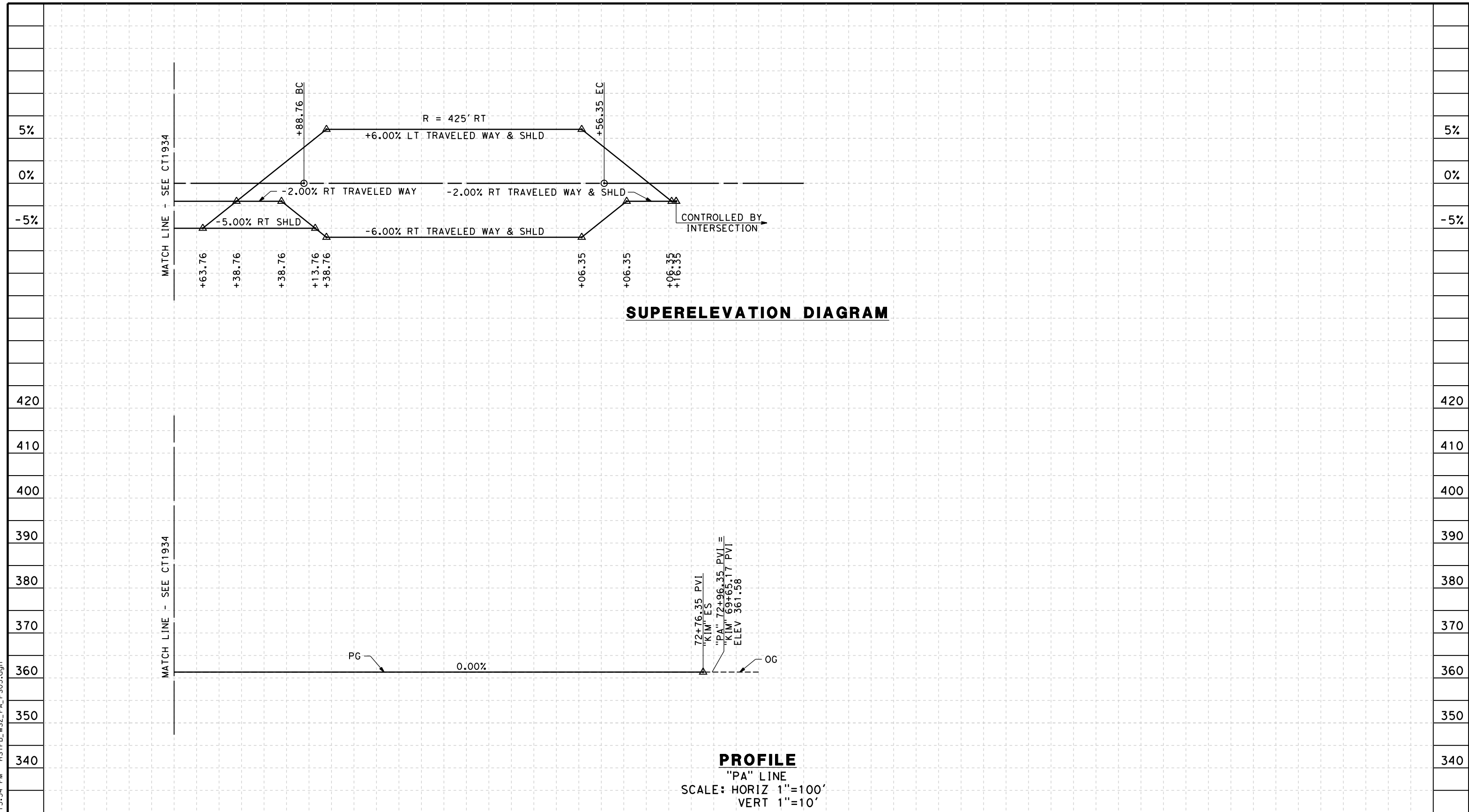
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2934

SCALE
AS SHOWN

SHEET NO.
18 OF 44

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STATION	1	2	3	4	65	6	7	8	9	70	1	2	3	4	TOTAL
Exc															
Emb															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

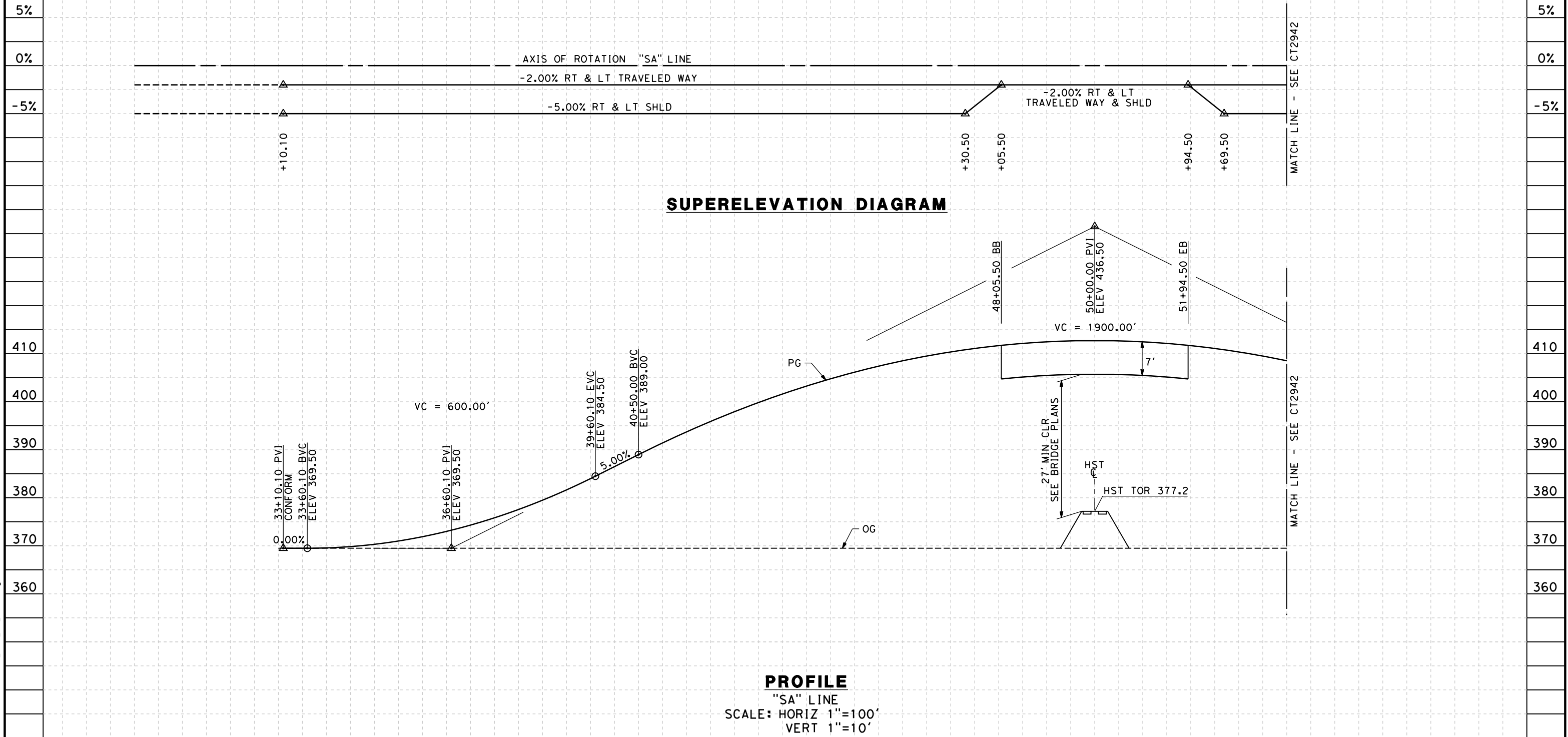
**RECORD SET 15%
 DESIGN SUBMISSION**
 -
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 POPLAR AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2935
 SCALE
AS SHOWN
 SHEET NO.
19 OF 44

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

DESIGNED BY C. ALLEN	DRAWN BY M. POLISCHUK	CHECKED BY J. LABANOWSKI	IN CHARGE G. HORTON	DATE 05/13/11	
REV	DATE	BY	CHK	APP	DESCRIPTION

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



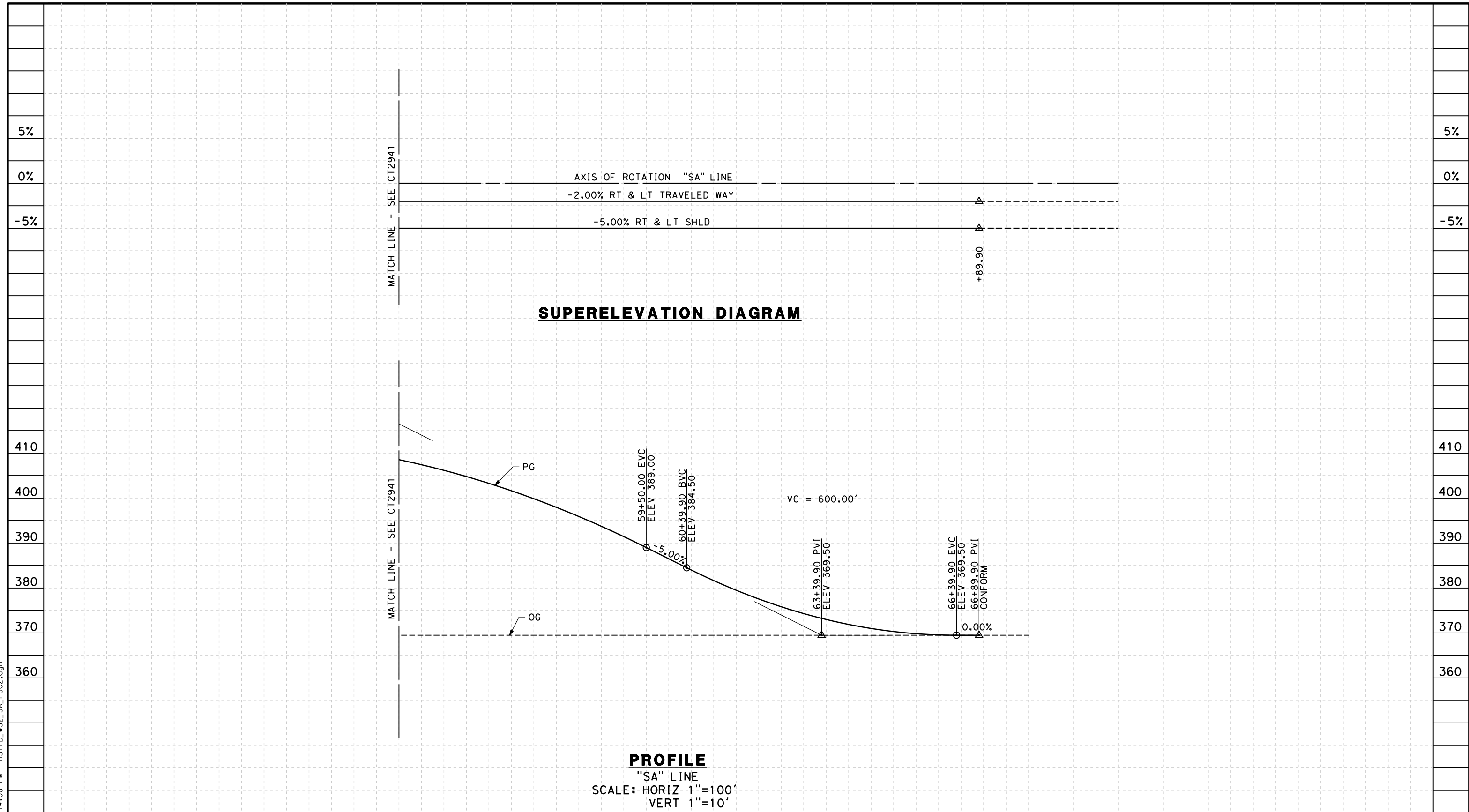
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
SHAFTER AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2941
SCALE AS SHOWN
SHEET NO. 20 OF 44

5/12/2011 1:14:01 PM HSTFB_WS2_SA_PS01.dgn

5/12/2011 1:14:08 PM HSTFB_WS2_SA_PS02.dgn



STATION	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



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

WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 SHAFTER AVE

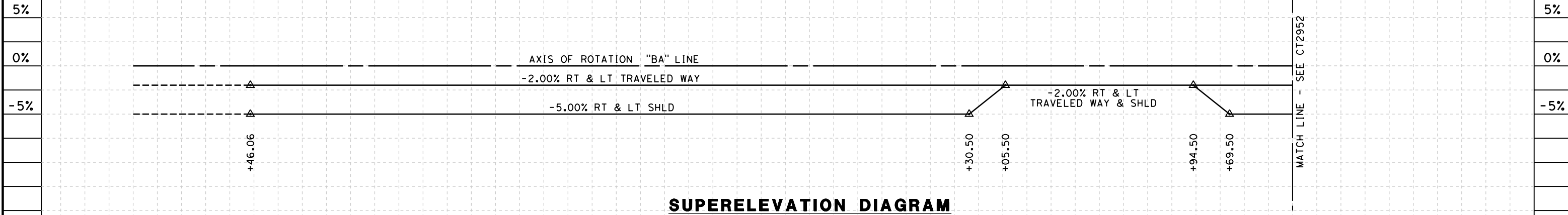
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HSR 06-0003

DRAWING NO.
CT2942

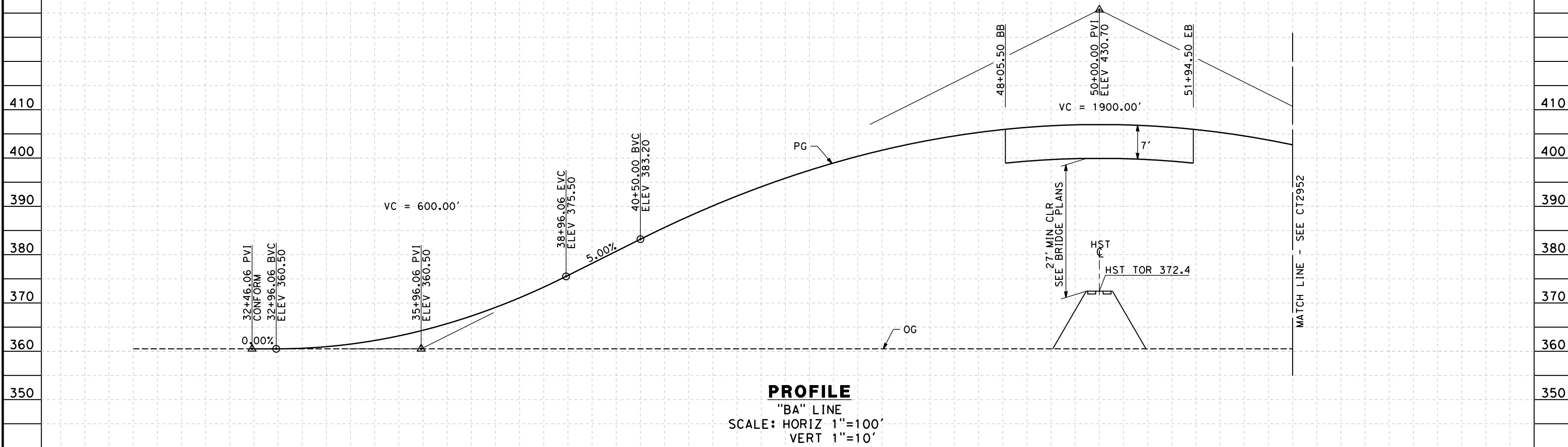
SCALE
AS SHOWN

SHEET NO.
21 OF 44

- 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



SUPERELEVATION DIAGRAM



PROFILE

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

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

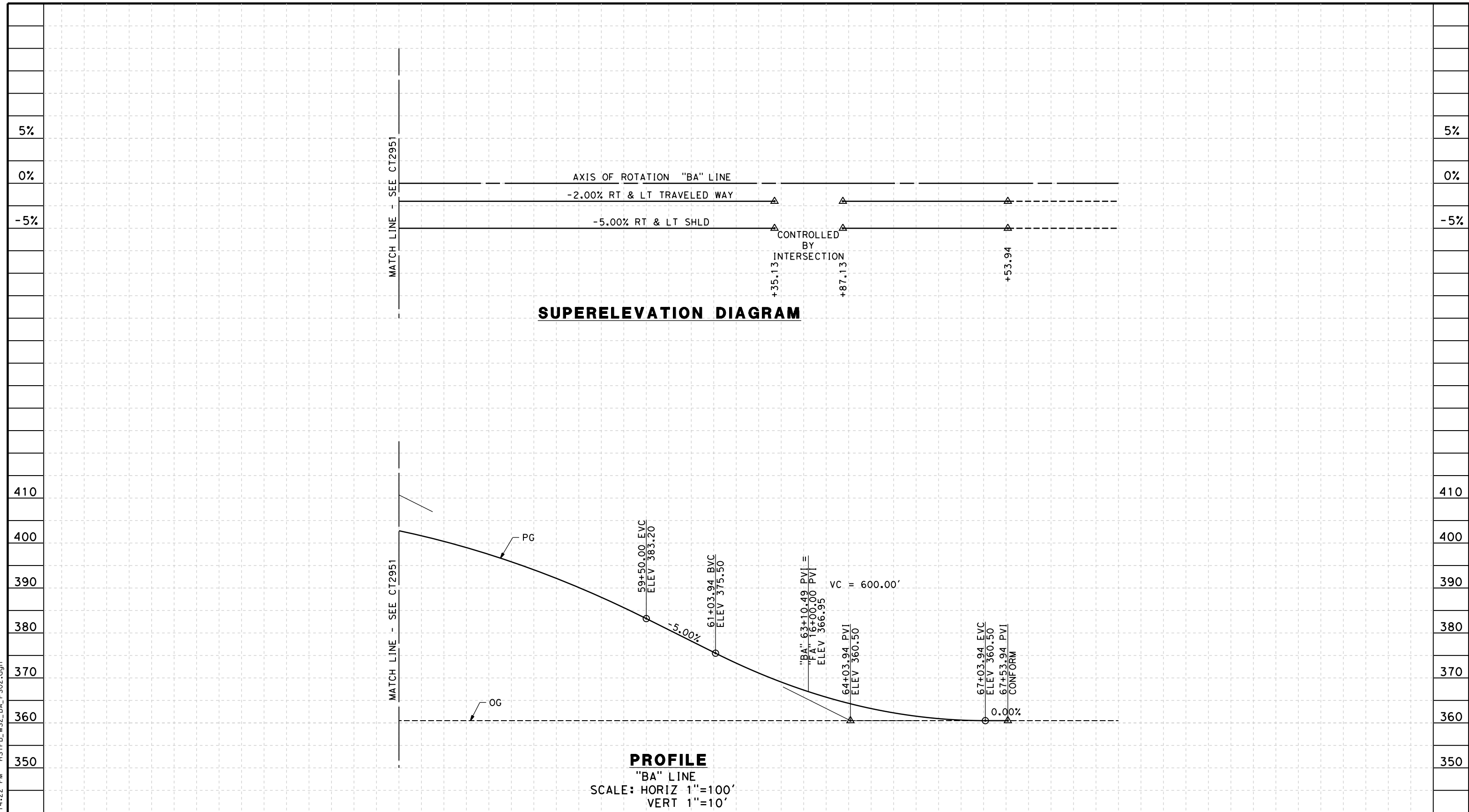


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 BEECH AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2951
 SCALE
AS SHOWN
 SHEET NO.
22 OF 44

5/12/2011 1:14:14 PM HSTFB_WS2_BA_PS01.dgn carlton_allen

5/12/2011 1:14:22 PM HSTFB_WS2_BA_PS02.dgn



STATION	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	TOTAL
Exc																
Emb																

DESIGNED BY C. ALLEN	RECORD SET 15% DESIGN SUBMISSION
DRAWN BY M. POLISCHUK	NOT FOR CONSTRUCTION
CHECKED BY J. LABANOWSKI	
IN CHARGE G. HORTON	
DATE 05/13/11	

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 BEECH AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2952
SCALE AS SHOWN
SHEET NO. 23 OF 44

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

5%

5%

0%

0%

-5%

-5%

420

420

410

410

400

400

390

390

380

380

370

370

360

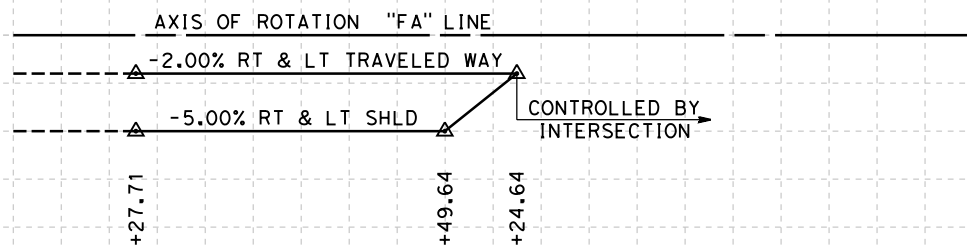
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350

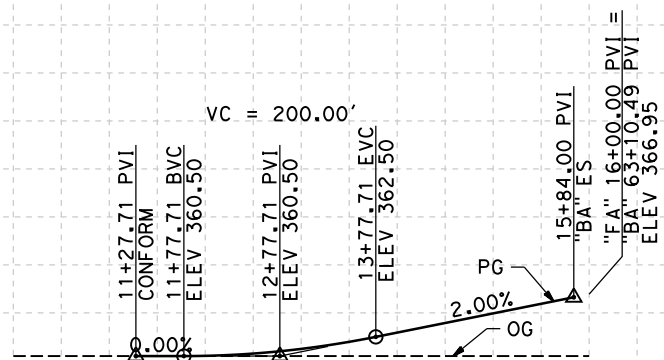
350

340

340



SUPERELEVATION DIAGRAM



PROFILE

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

5/12/2011 1:14:29 PM HSTFB_WS2_FA_PS01.dgn

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

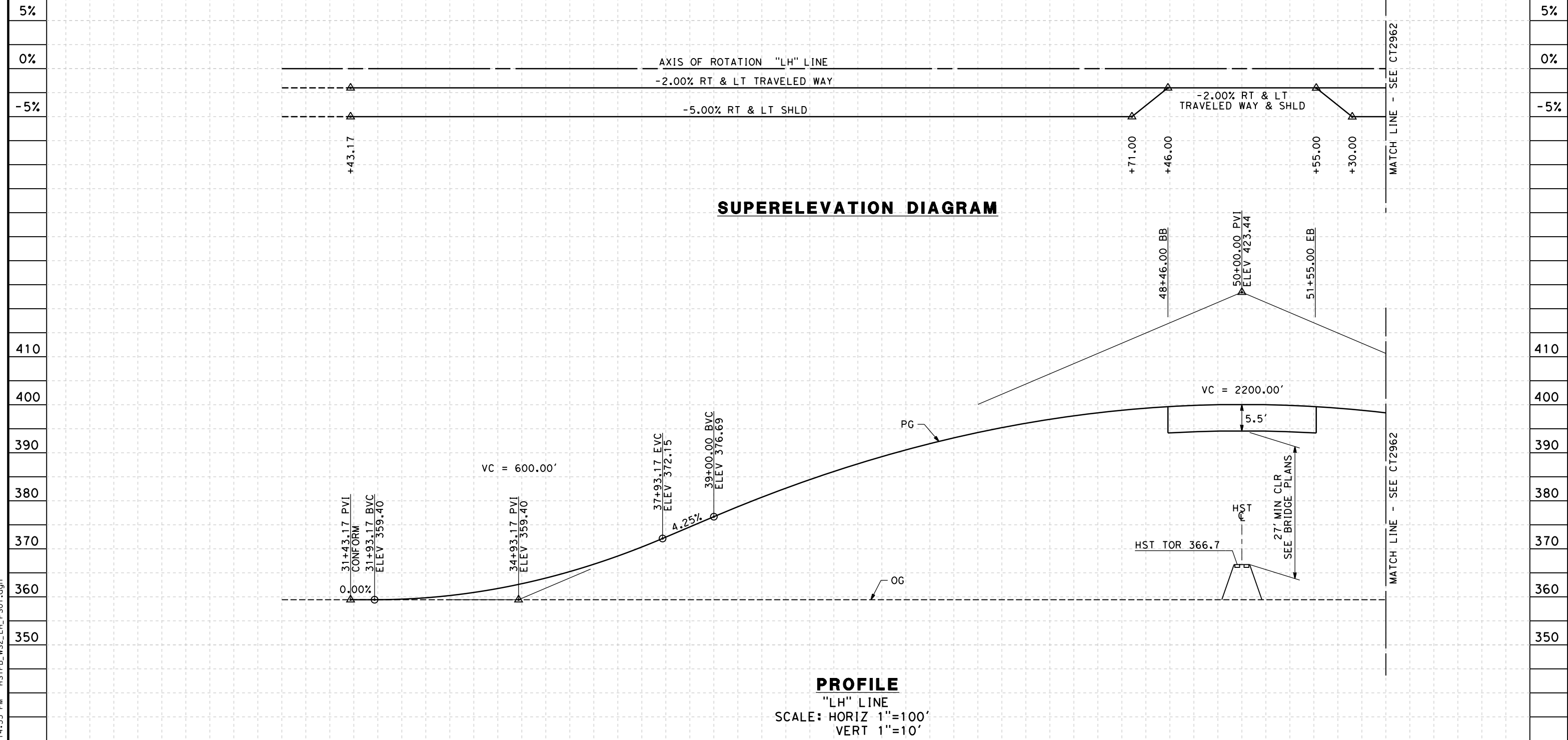
**RECORD SET 15%
 DESIGN SUBMISSION**
 -
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 FRESNO AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2953
 SCALE
AS SHOWN
 SHEET NO.
24 OF 44

- NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 2. VERTICAL DESIGN SPEED = 60 MPH
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	30	1	2	3	4	5	6	7	8	9	40	1	2	3	4	5	6	7	8	9	50	1	2	3	TOTAL
Exc																									
Emb																									

DESIGNED BY	C. ALLEN
DRAWN BY	M. POLISCHUK
CHECKED BY	J. LABANOWSKI
IN CHARGE	G. HORTON
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

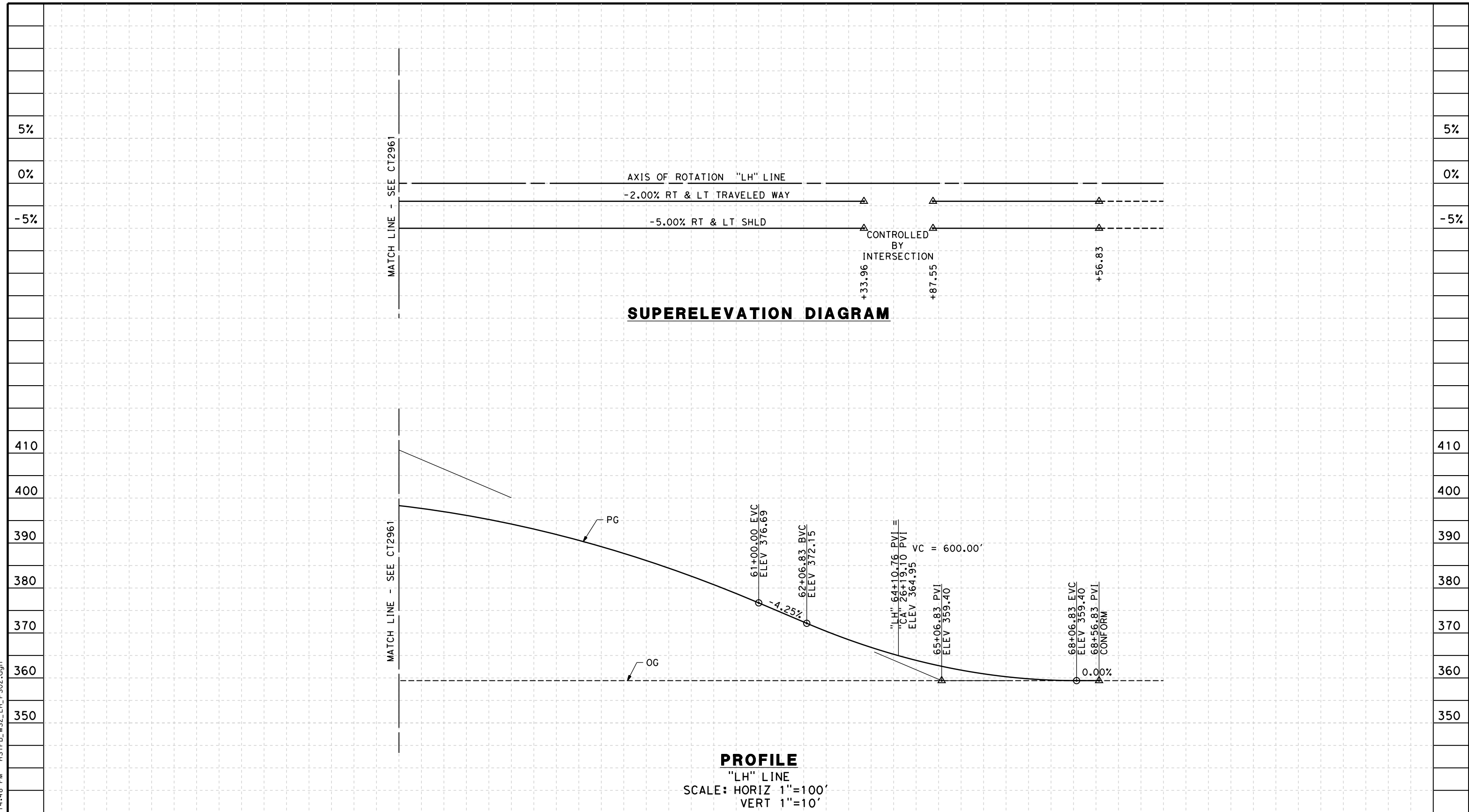


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
EAST LERDO HWY

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2961
SCALE	AS SHOWN
SHEET NO.	25 OF 44

5/12/2011 1:14:35 PM HSTFB_WS2_LH_PS01.dgn

5/12/2011 1:14:48 PM HSTFB_WS2_LH_PS02.dgn



STATION	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	TOTAL
Exc																			
Emb																			

DESIGNED BY	C. ALLEN
DRAWN BY	M. POLISCHUK
CHECKED BY	J. LABANOWSKI
IN CHARGE	G. HORTON
DATE	05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

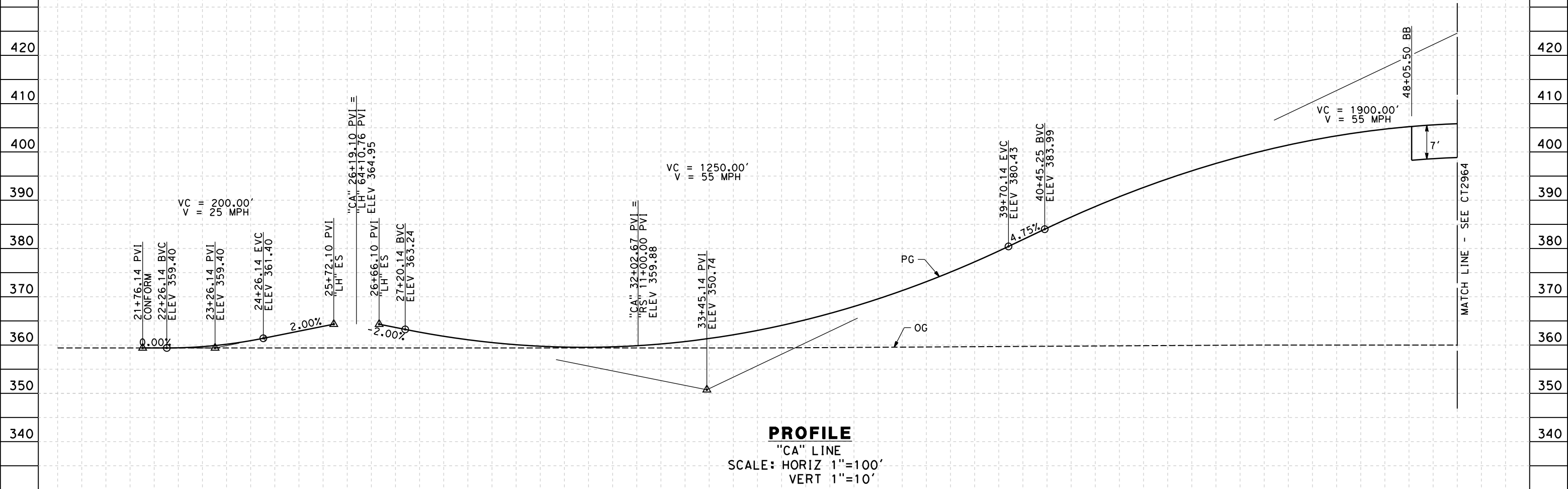
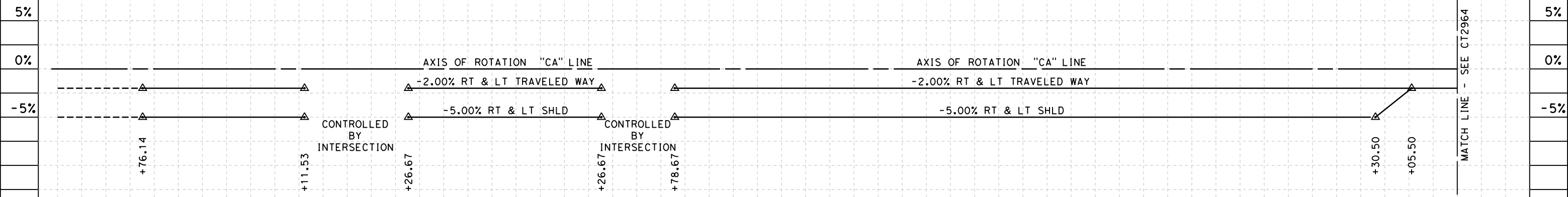


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 EAST LERDO HWY

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2962
SCALE	AS SHOWN
SHEET NO.	26 OF 44

- 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
 "CA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

5/12/2011 1:14:54 PM HSTFB_WS2_CA_PS01.dgn

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	9	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

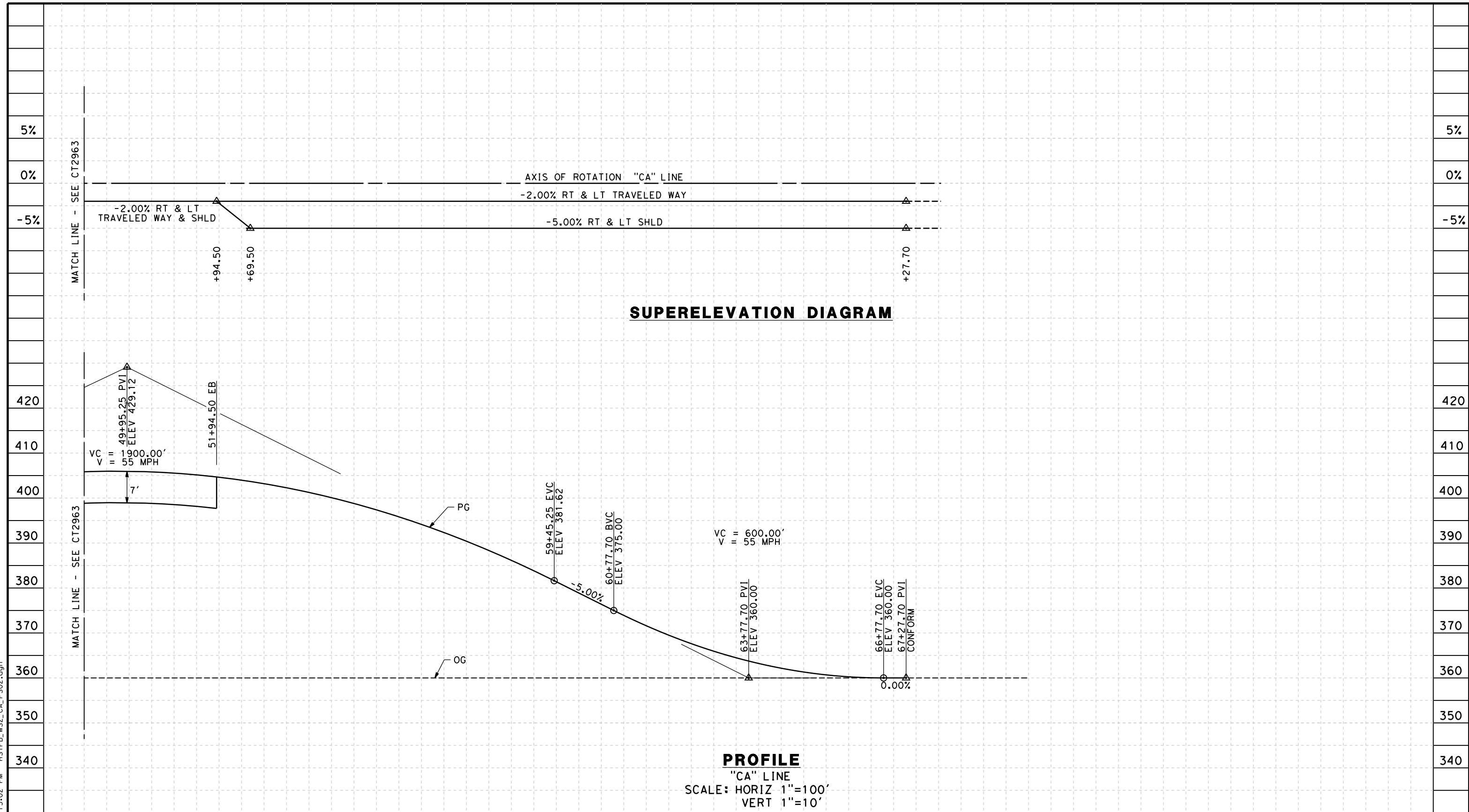
**RECORD SET 15%
 DESIGN SUBMISSION**
 -
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 CHERRY AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2963
 SCALE
AS SHOWN
 SHEET NO.
27 OF 44

5/12/2011 1:15:02 PM HSTFB_WS2_CA_PS02.dgn



STATION	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	TOTAL
Exc																							
Emb																							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
DRAWN BY
M. POLISCHUK
CHECKED BY
J. LABANOWSKI
IN CHARGE
G. HORTON
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

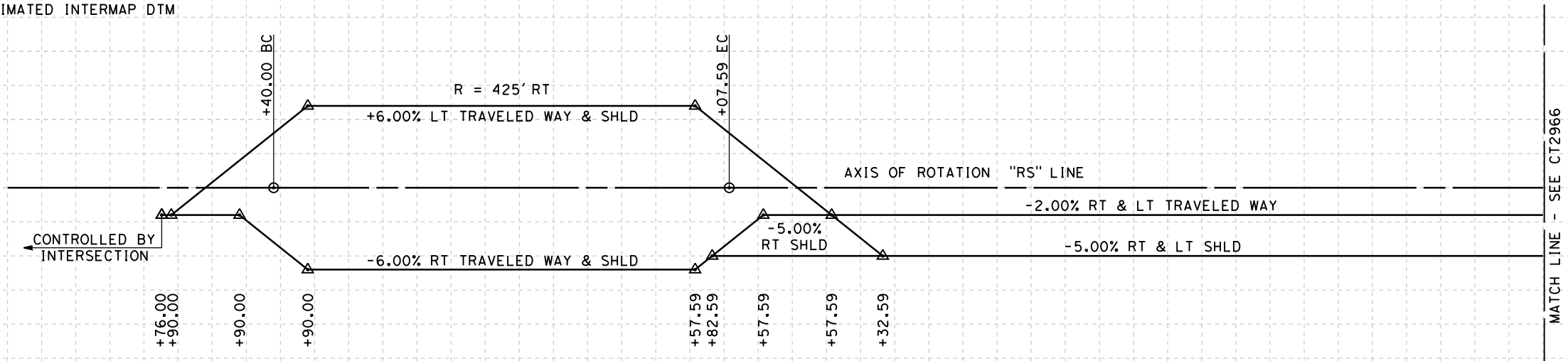
**NOT FOR
CONSTRUCTION**



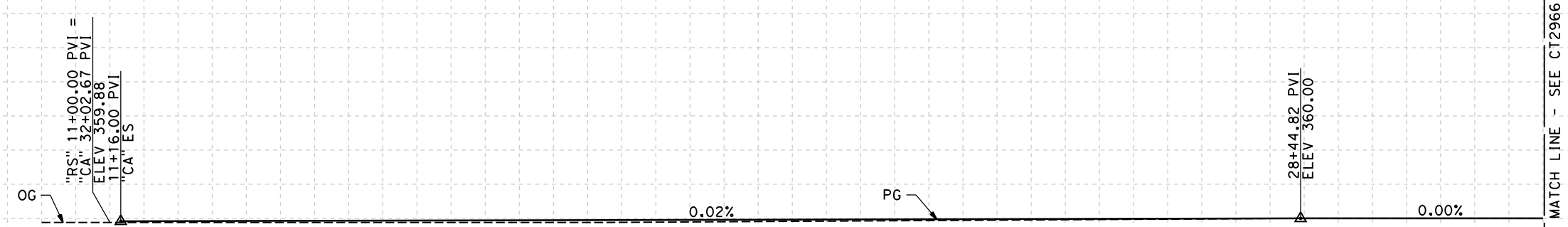
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
CHERRY AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2964
SCALE
AS SHOWN
SHEET NO.
28 OF 44

- 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



SUPERELEVATION DIAGRAM



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

5/12/2011 1:15:09 PM HSTFB_WS2_RS_PS01.dgn

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
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

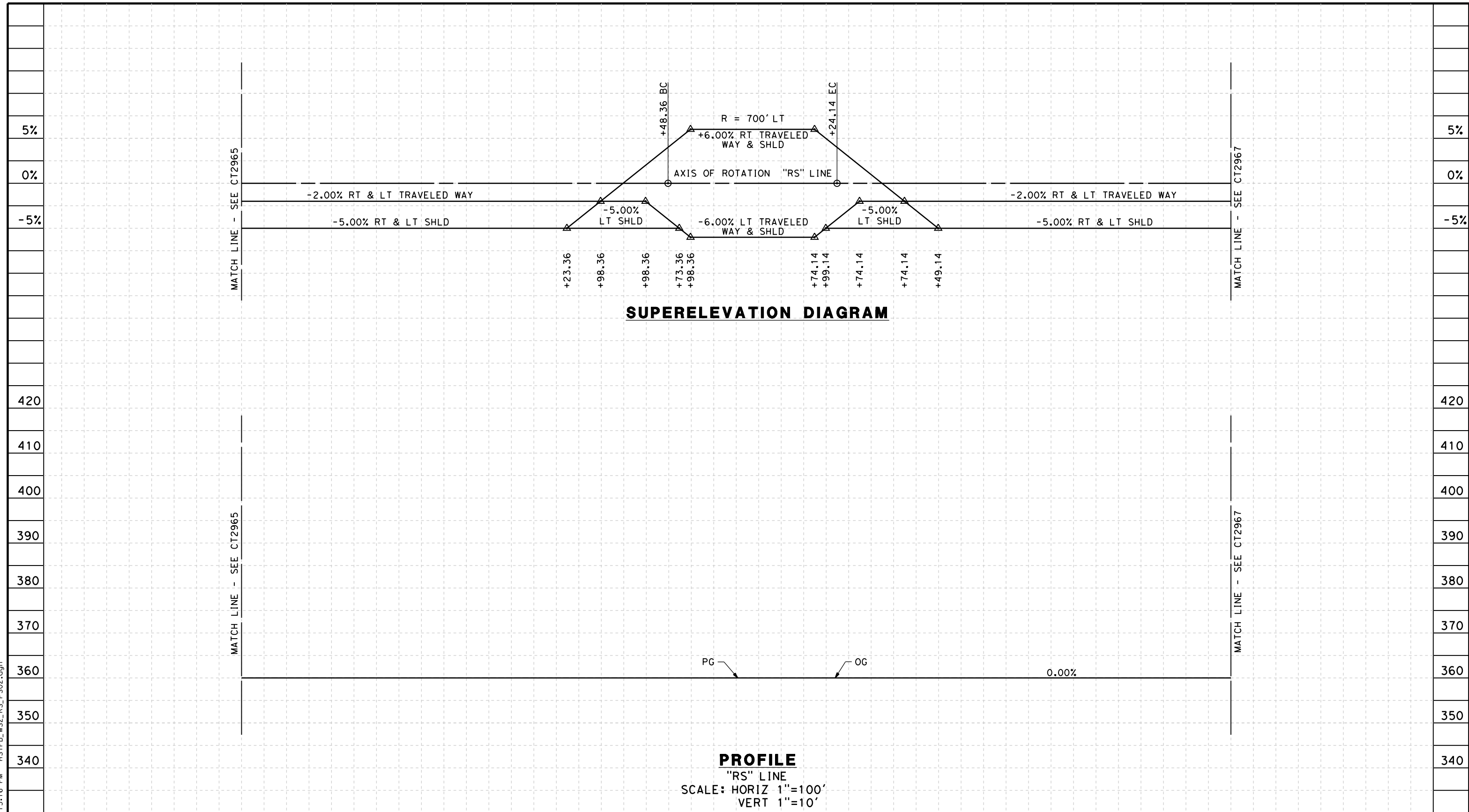
**RECORD SET 15%
 DESIGN SUBMISSION**
 -
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 RIVERSIDE ST

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2965
 SCALE
AS SHOWN
 SHEET NO.
29 OF 44

5/12/2011 1:15:16 PM HSTFB_WS2_RS_PS02.dgn



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN

DRAWN BY
M. POLISCHUK

CHECKED BY
J. LABANOWSKI

IN CHARGE
G. HORTON

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 RIVERSIDE ST

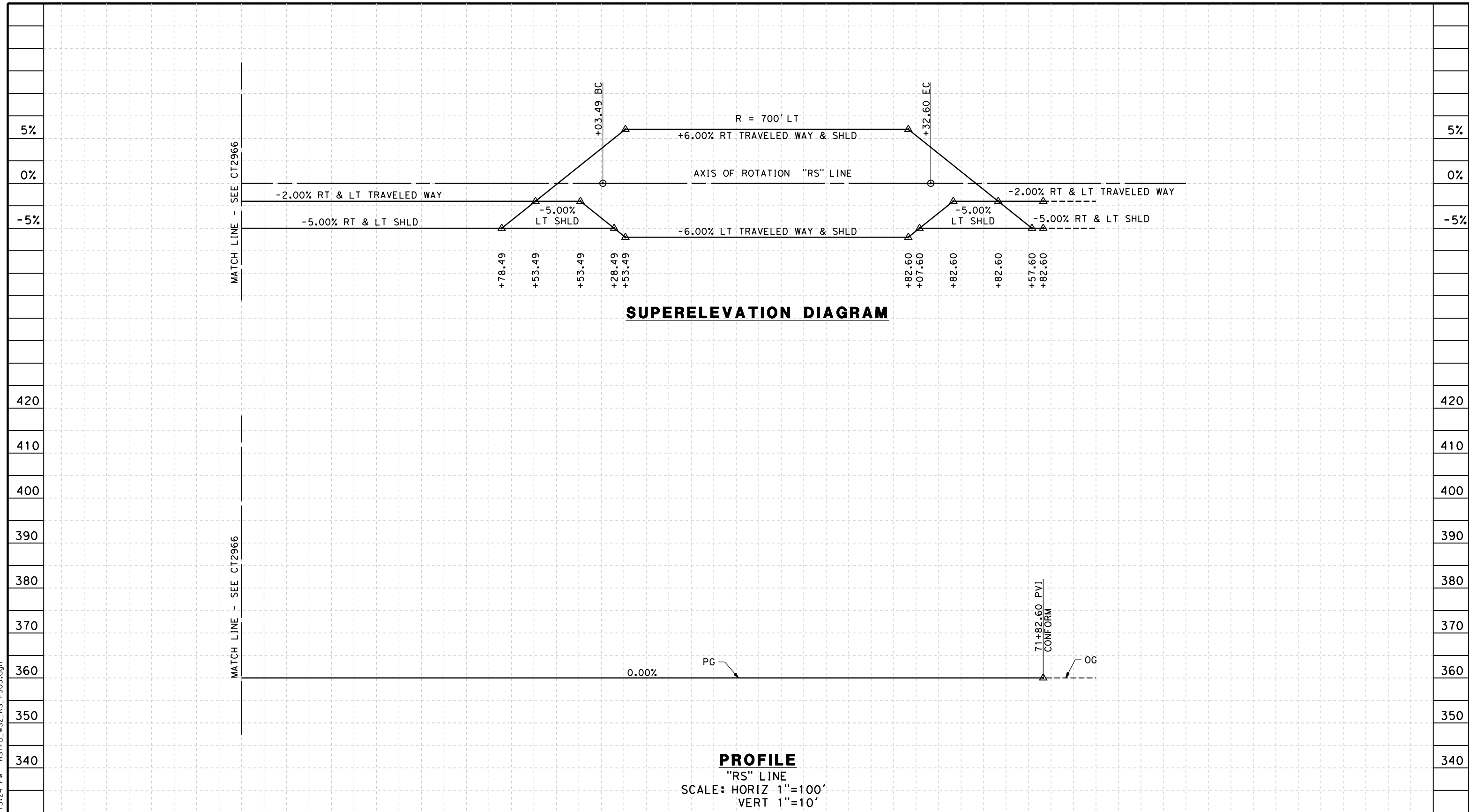
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2966

SCALE
AS SHOWN

SHEET NO.
30 OF 44

5/12/2011 1:15:24 PM HSTFB_WS2_RS_PS03.dgn



SUPERELEVATION DIAGRAM

PROFILE

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

STATION	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	2	3	TOTAL	
Exc																						
Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

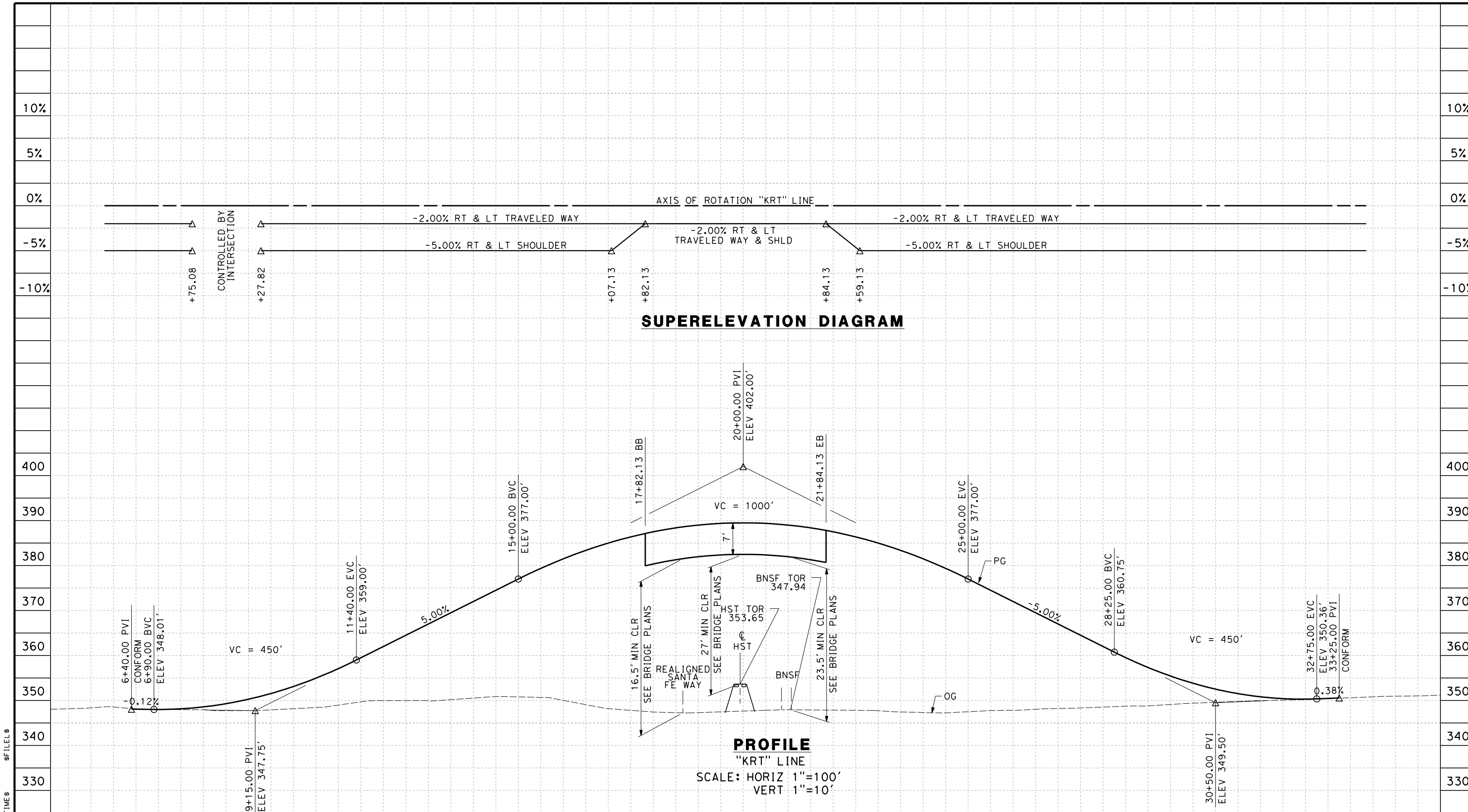
DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 RIVERSIDE ST

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2967
 SCALE
AS SHOWN
 SHEET NO.
31 OF 44



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	1	2	3	4	35	TOTAL
Exc																																
Emb																																

DESIGNED BY	R. DEASON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	05/13/11

REV	DATE	BY	CHK	APP	DESCRIPTION

**RECORD SET 15%
DESIGN SUBMISSION**

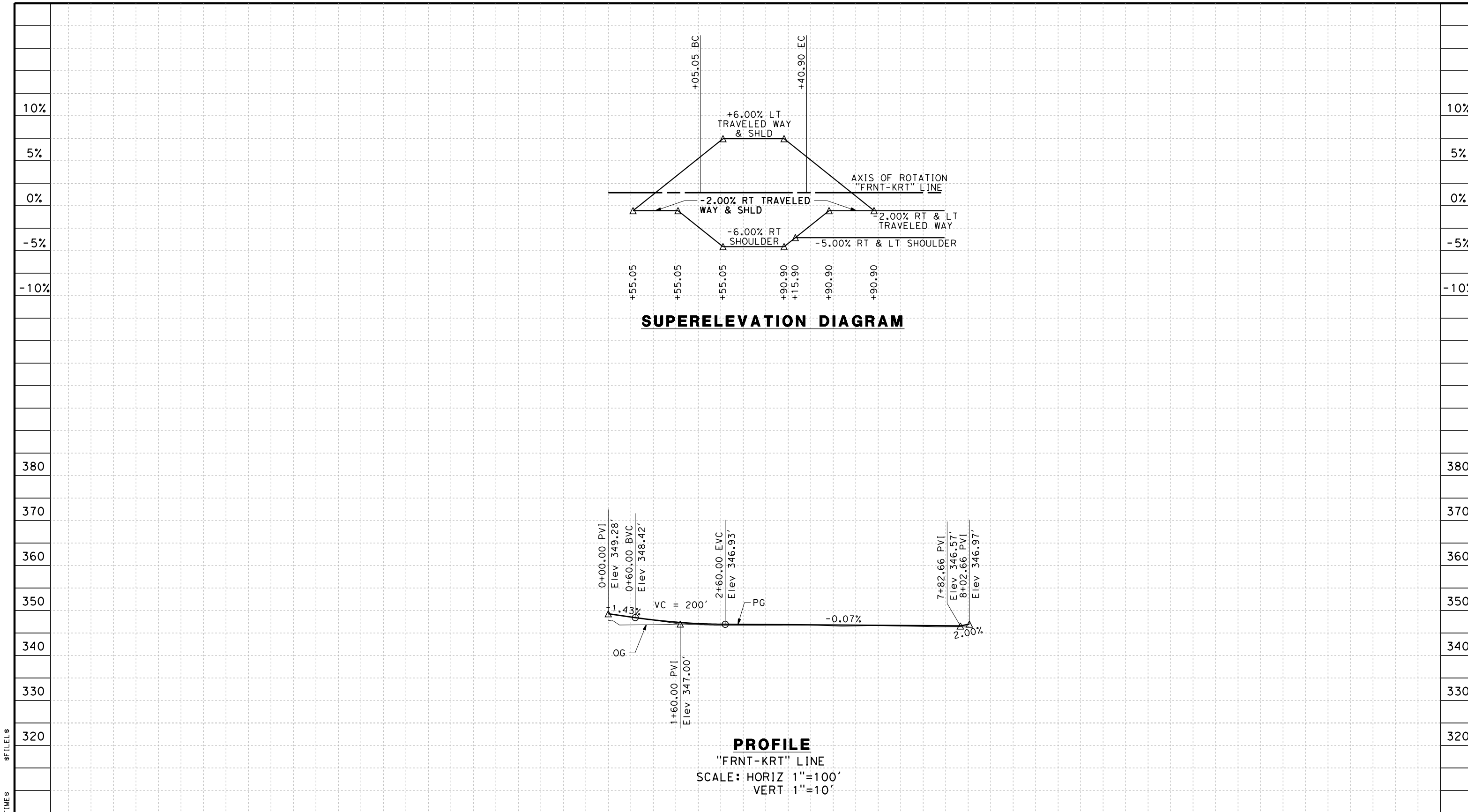
**NOT FOR
CONSTRUCTION**



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

WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
KRATZMEYER ROAD

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2971
SCALE	AS SHOWN
SHEET NO.	32 OF 44



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

DESIGNED BY	R. DEASON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

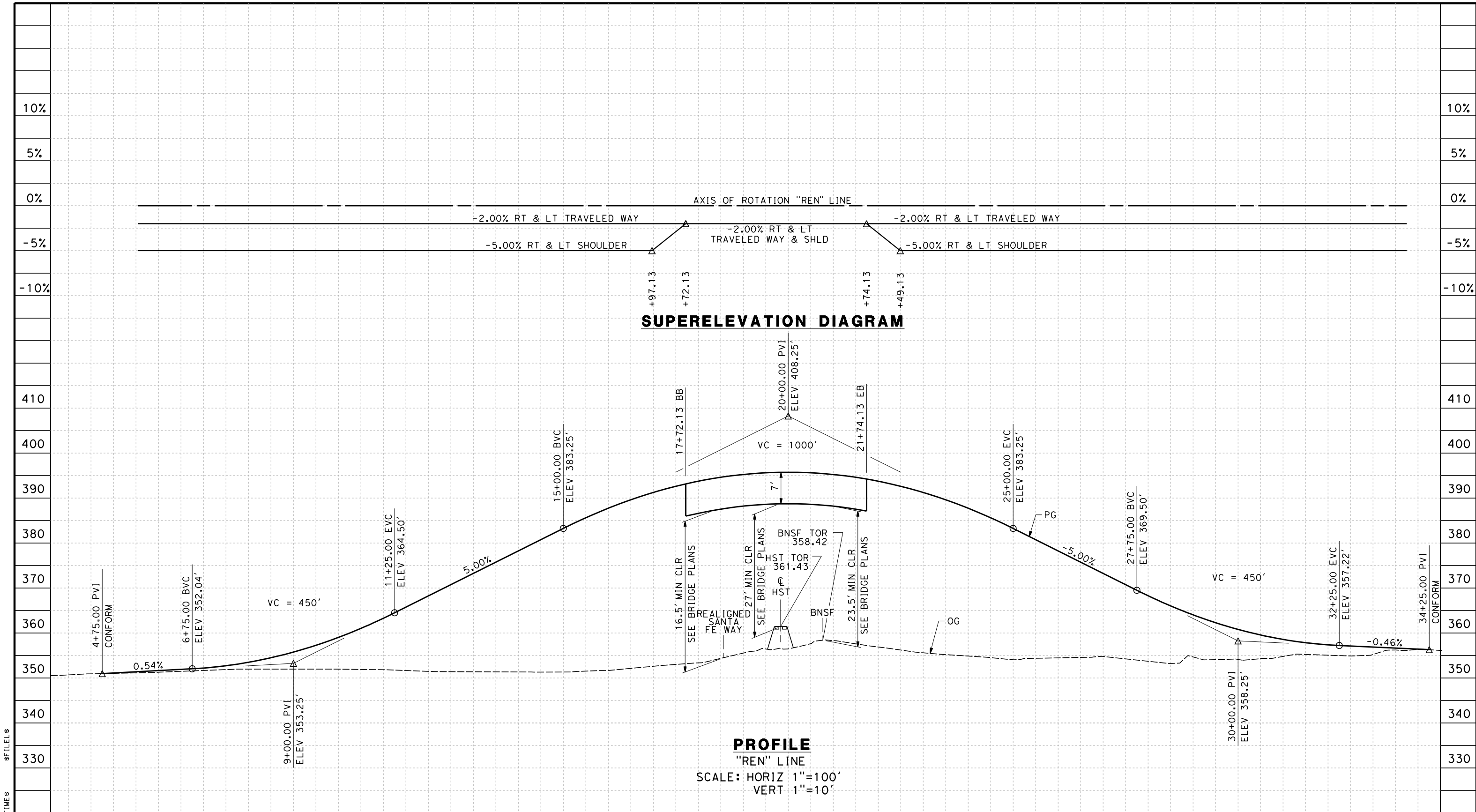
**NOT FOR
CONSTRUCTION**



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

WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
KRATZMEYER FRONTAGE ROAD

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2973
SCALE	AS SHOWN
SHEET NO.	33 OF 44



SUPERELEVATION DIAGRAM

PROFILE

"REN" 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	1	2	3	4	TOTAL
Exc																															
Emb																															

DESIGNED BY	R. DEASON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

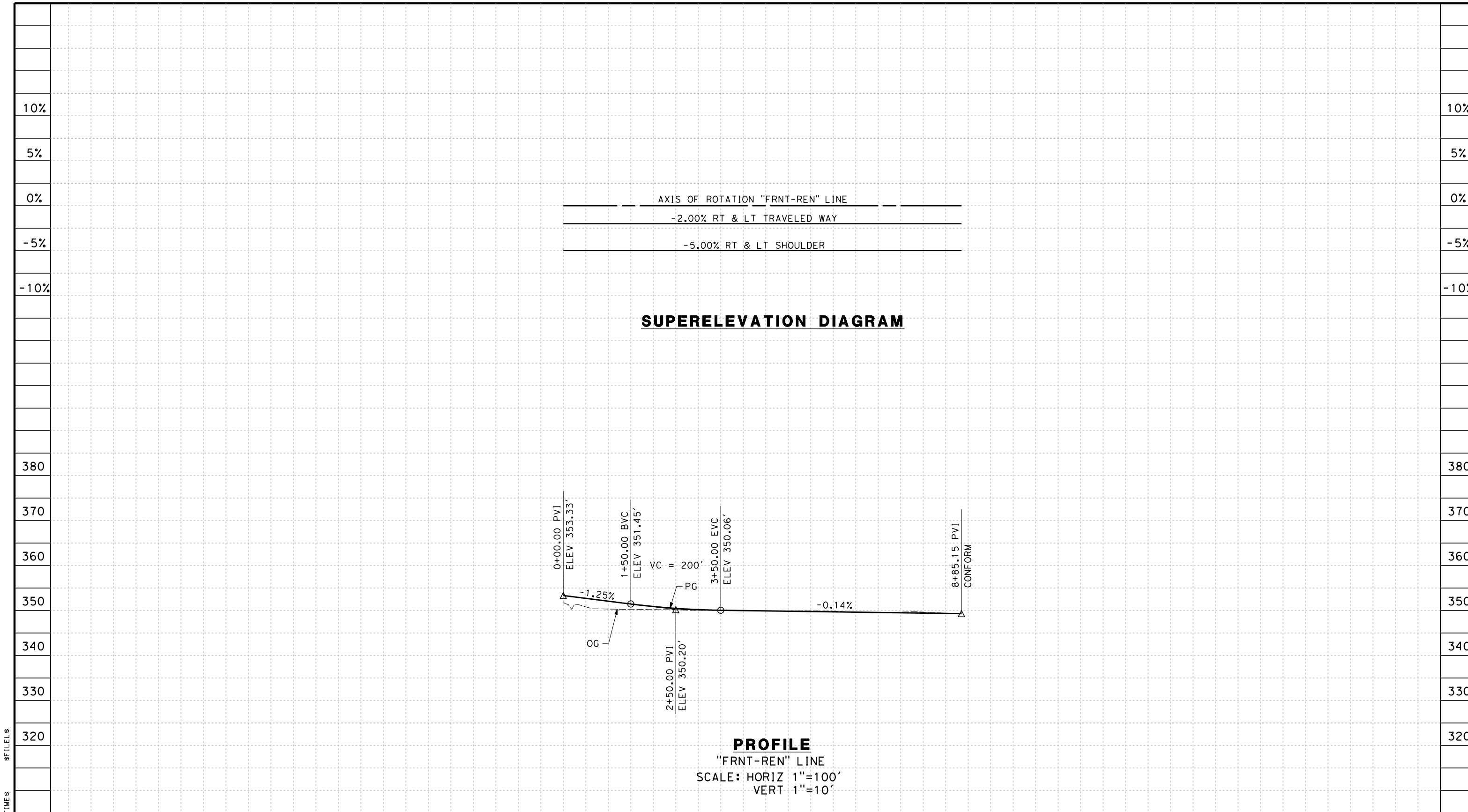
**NOT FOR
CONSTRUCTION**



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

WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
REINA ROAD

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2974
SCALE	AS SHOWN
SHEET NO.	34 OF 44



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

DESIGNED BY	R. DEASON
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	O. EARLE
DATE	05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



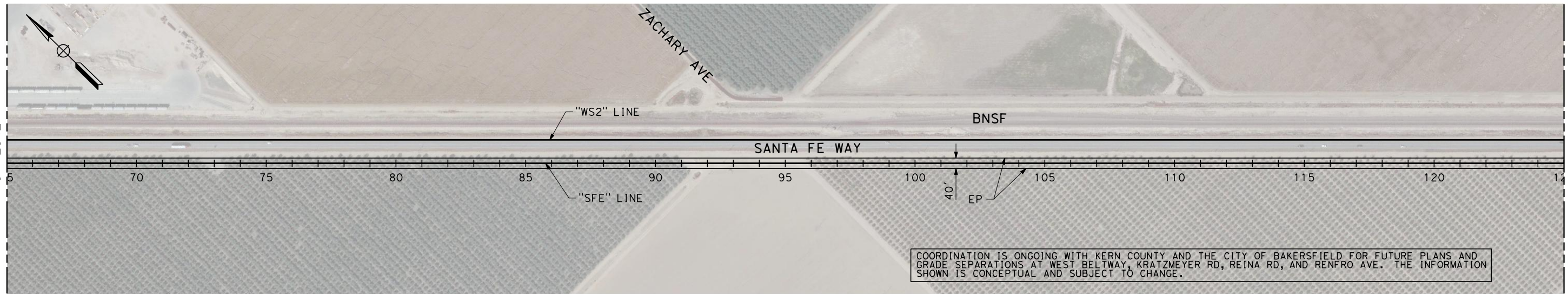
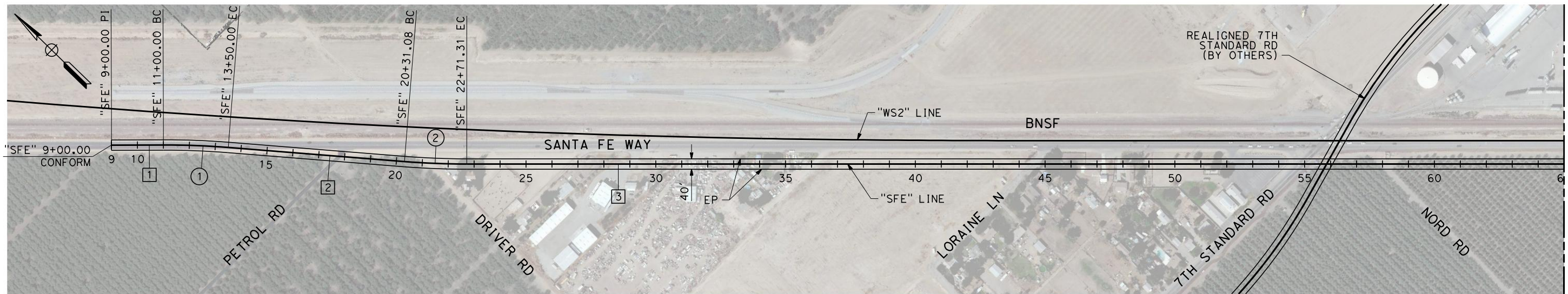
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
REINA FRONTAGE ROAD

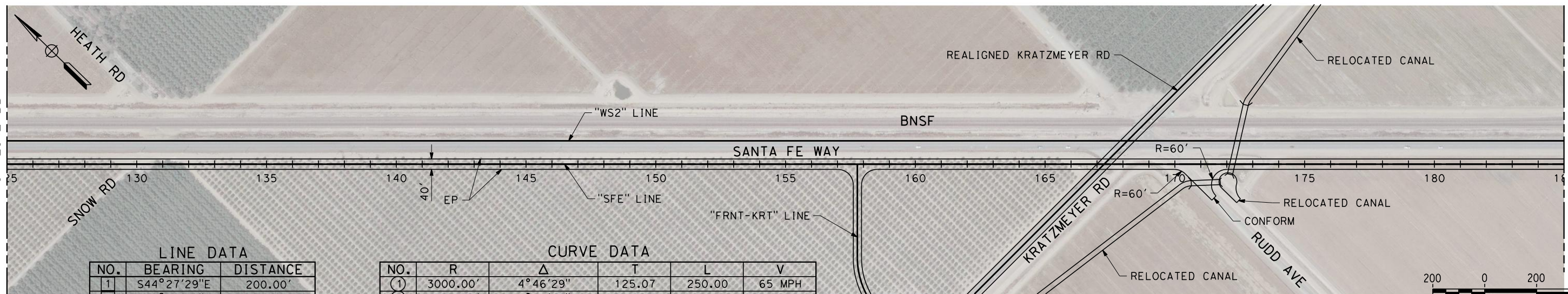
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2975
SCALE	AS SHOWN
SHEET NO.	35 OF 44

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

6/28/2011 2:48:38 PM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CR-1985.dgn



COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.

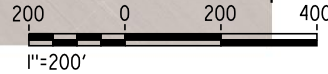


LINE DATA

NO.	BEARING	DISTANCE
1	S44°27'29"E	200.00'
2	S39°41'00"E	681.08'
3	S44°16'18"E	20535.92'

CURVE DATA

NO.	R	Δ	T	L	V
①	3000.00'	4°46'29"	125.07	250.00	65 MPH
②	3000.00'	4°35'17"	120.18	240.23	65 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

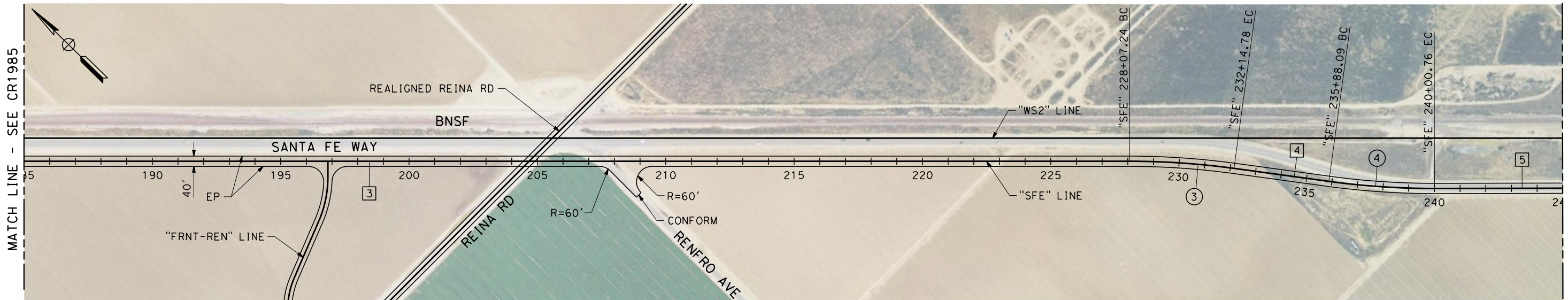
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
ROADWAY LAYOUT
SANTA FE WAY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR1985
SCALE
AS SHOWN
SHEET NO.
36 OF 44

6/28/2011 1:45:40 PM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CR-1986.dgn



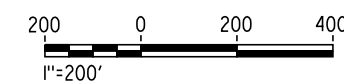
COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.

LINE DATA

NO.	BEARING	DISTANCE
3	S44°16'18"E	20535.92'
4	S36°29'17"E	373.32'
5	S44°22'10"E	864.07'

CURVE DATA

NO.	R	Δ	T	L	V
③	3000.00'	7°47'00"	204.08	407.54	65 MPH
④	3000.00'	7°52'53"	206.66	412.66	65 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
WASCO-SHAFTER BYPASS SUBSECTION
ALIGNMENT WS2
ROADWAY LAYOUT
SANTA FE WAY

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR1986
SCALE
AS SHOWN
SHEET NO.
37 OF 44

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.

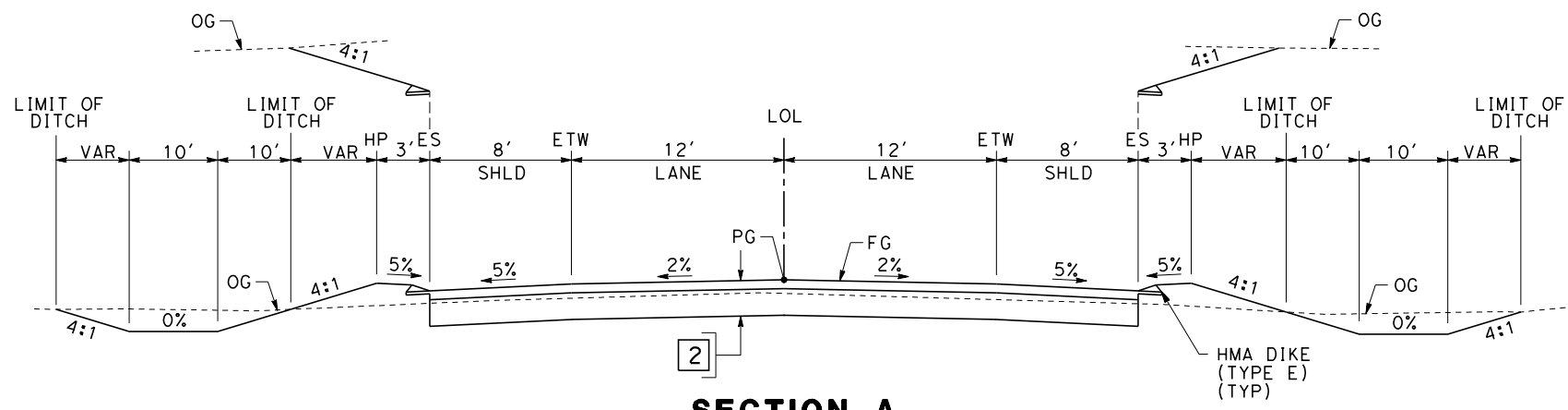
STRUCTURAL SECTIONS

TYPICAL ROADWAY (4' SHOULDER)

- 1 0.30' HMA (TYPE A)
- 1.40' CL 2 AB

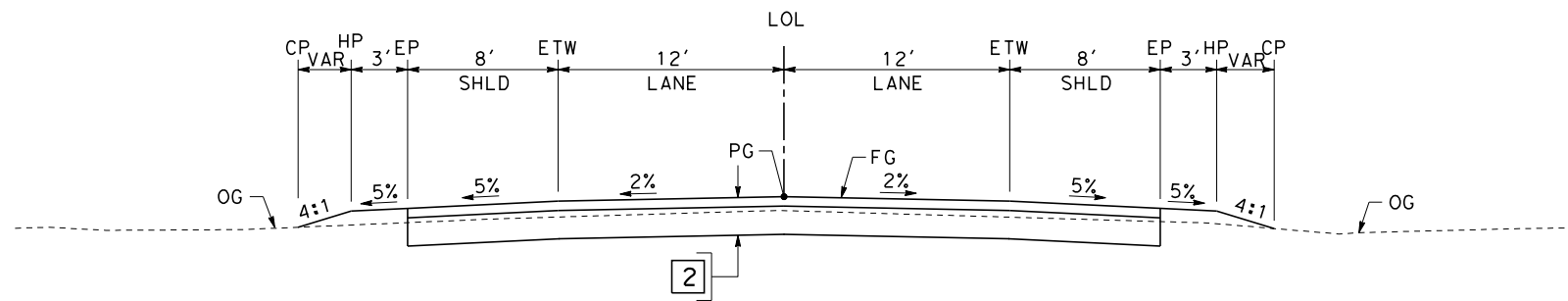
TYPICAL ROADWAY (8' SHOULDER)

- 2 0.40' HMA (TYPE A)
- 1.70' CL 2 AB



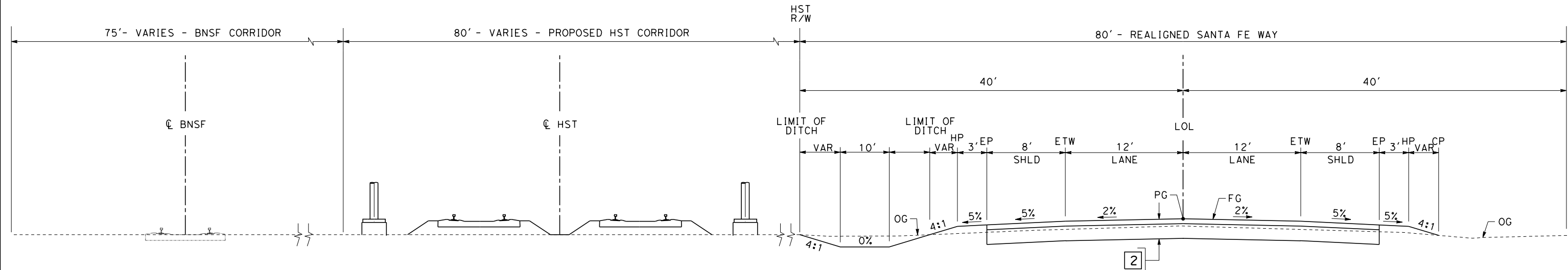
SECTION A

"KRT" 6+90.00 TO 17+82.13 "KIM" 31+10.83 TO 48+46.00
 "KRT" 21+84.06 TO 32+75.00 "KIM" 51+55.00 TO 68+89.17



SECTION B

"KRT" 6+40.00 TO 6+90.00 "KIM" 30+60.83 TO 31+10.83
 "KRT" 32+75.00 TO 33+25.00 "KIM" 68+89.17 TO 70+41.17



SECTION C

"SFE" 9+00.00 TO 248+79.11

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

REV	DATE	BY	CHK	APP	DESCRIPTION

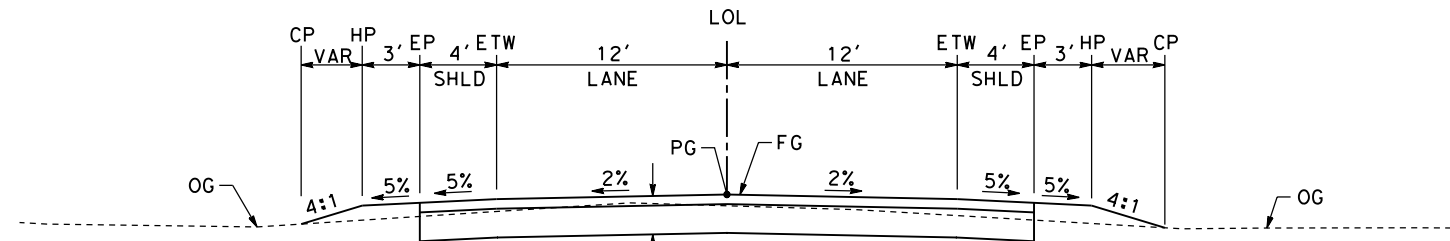
DESIGNED BY
J. NETTLETON
 DRAWN BY
V. ORTEGA
 CHECKED BY
B. RAWSON
 IN CHARGE
O. EARLE
 DATE
05/13/11

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



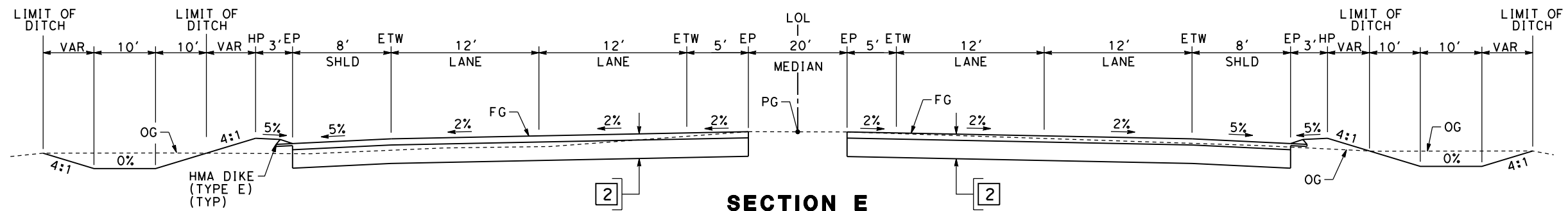
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 ROADWAY/GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT3140
 SCALE
AS SHOWN
 SHEET NO.
41 OF 44



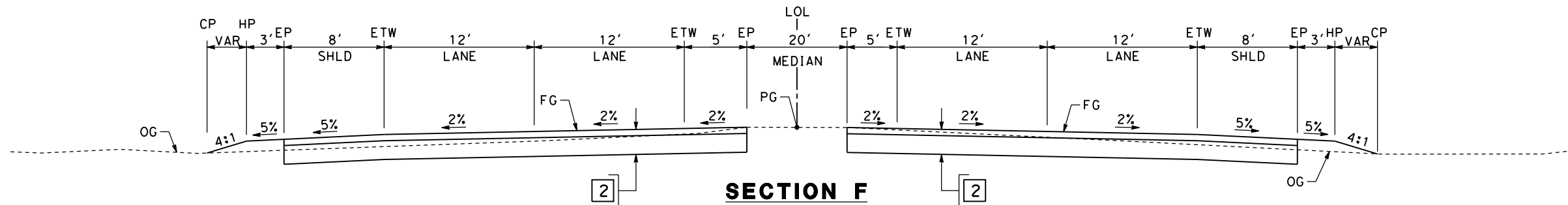
SECTION D

"PA" 10+00.00 TO 72+96.35
 "SA" 33+10.10 TO 33+60.10
 "SA" 66+39.90 TO 66+89.90
 "BA" 32+46.06 TO 32+96.06
 "BA" 67+03.94 TO 67+53.94
 "FA" 11+27.71 TO 16+00.00
 "CA" 21+76.14 TO 31+00.00
 "CA" 66+77.70 TO 67+27.70
 "RS" 11+00.00 TO 71+82.60



SECTION E

"LH" 31+93.17 TO 48+46.00
 "LH" 51+55.00 TO 68+06.83



SECTION F

"LH" 31+43.17 TO 31+93.17
 "LH" 68+06.83 TO 68+56.83

carlton_allen 5/12/2011 2:45:52 PM HSTFB_WS2_X02.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. ALLEN
 DRAWN BY
M. POLISCHUK
 CHECKED BY
J. LABANOWSKI
 IN CHARGE
G. HORTON
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 ROADWAY/GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT3141
 SCALE
AS SHOWN
 SHEET NO.
42 OF 44

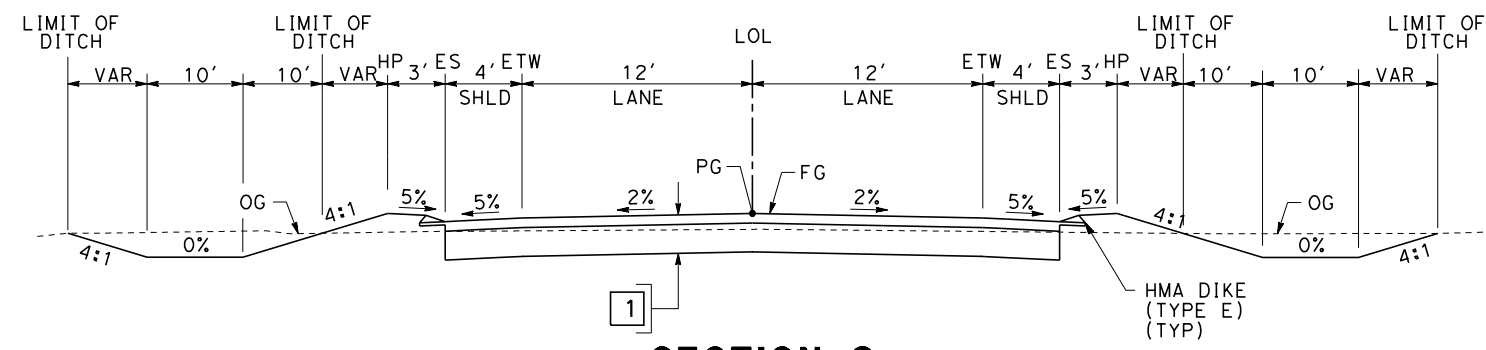
NOTES:

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

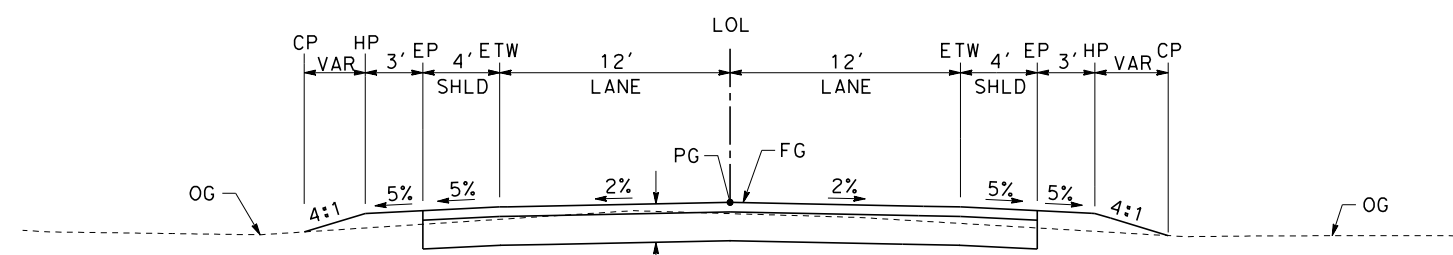
TYPICAL ROADWAY (4' SHOULDER)

- 1 0.30' HMA (TYPE A)
- 1.40' CL 2' AB



SECTION G

"FRNT-KRT" 0+00.00 TO 2+60.29 "REN" 6+75.00 TO 17+72.13
 "FRNT-REN" 0+00.00 TO 3+50.00 "REN" 21+74.13 TO 32+25.00



SECTION H

"FRNT-KRT" 2+60.29 TO 7+59+19 "REN" 4+75.00 TO 6+75.00
 "FRNT-REN" 3+50.00 TO 8+85.15 "REN" 32+25.00 TO 34+25.00

\$USER:\$ \$DATE:\$ \$TIME:\$ \$FILEL:\$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
 DRAWN BY
V. ORTEGA
 CHECKED BY
B. RAWSON
 IN CHARGE
O. EARLE
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 ROADWAY/GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT3142
 SCALE
AS SHOWN
 SHEET NO.
43 OF 44

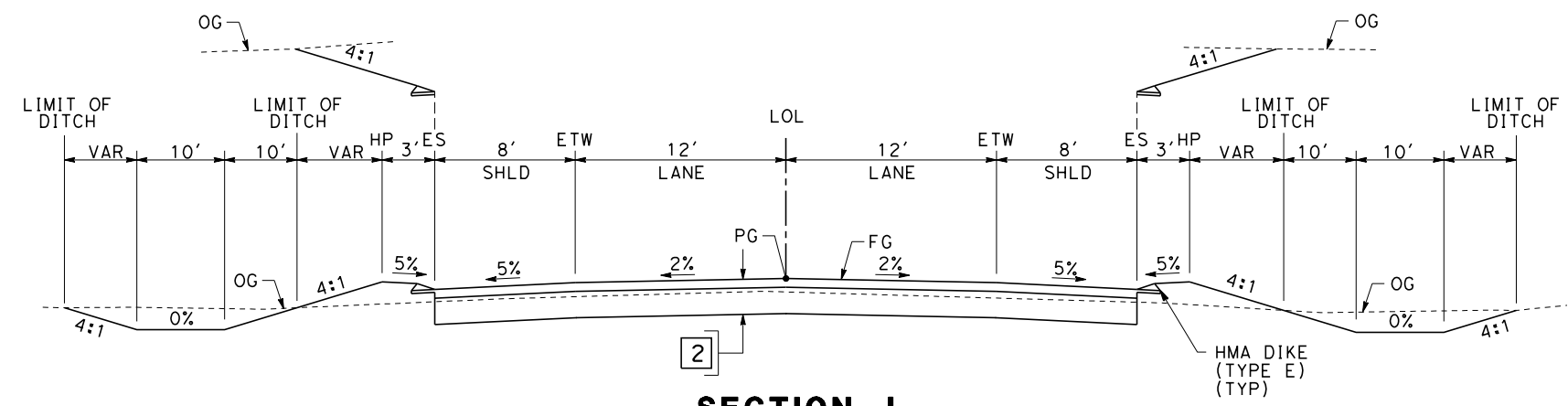
NOTES:

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



SECTION J

"SA" 33+60.10 TO 48+05.50 "SA" 51+94.50 TO 66+39.90
 "BA" 32+96.06 TO 48+05.50 "BA" 51+94.50 TO 67+03.94
 "CA" 31+00.00 TO 48+05.50 "CA" 51+94.50 TO 66+77.70

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. NETTLETON
 DRAWN BY
V. ORTEGA
 CHECKED BY
B. RAWSON
 IN CHARGE
O. EARLE
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

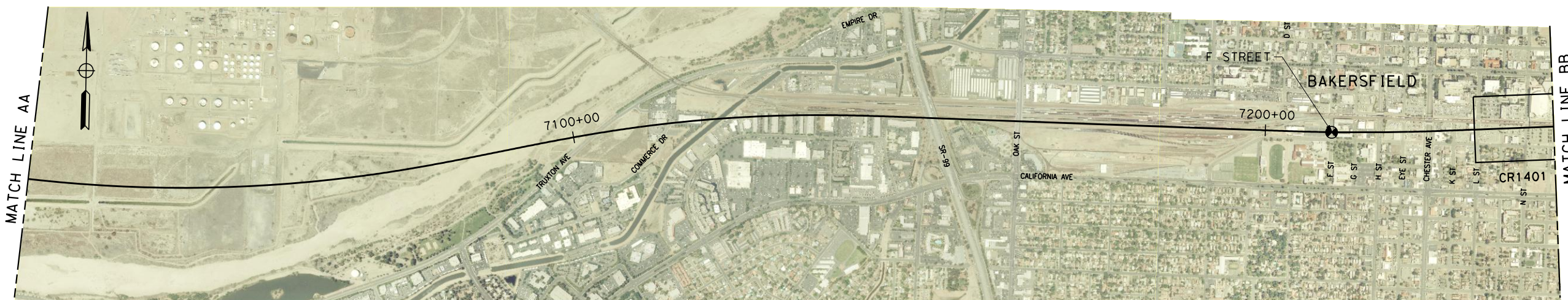
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 WASCO-SHAFTER BYPASS SUBSECTION
 ALIGNMENT WS2
 ROADWAY/GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT3143
 SCALE
AS SHOWN
 SHEET NO.
44 OF 44

6/29/2011 10:06:33 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-0190.dgn



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
PALM AVENUE	6928+00.00
F STREET	7209+00.00
CHICO STREET	7277+00.00
DELORES STREET	7289+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

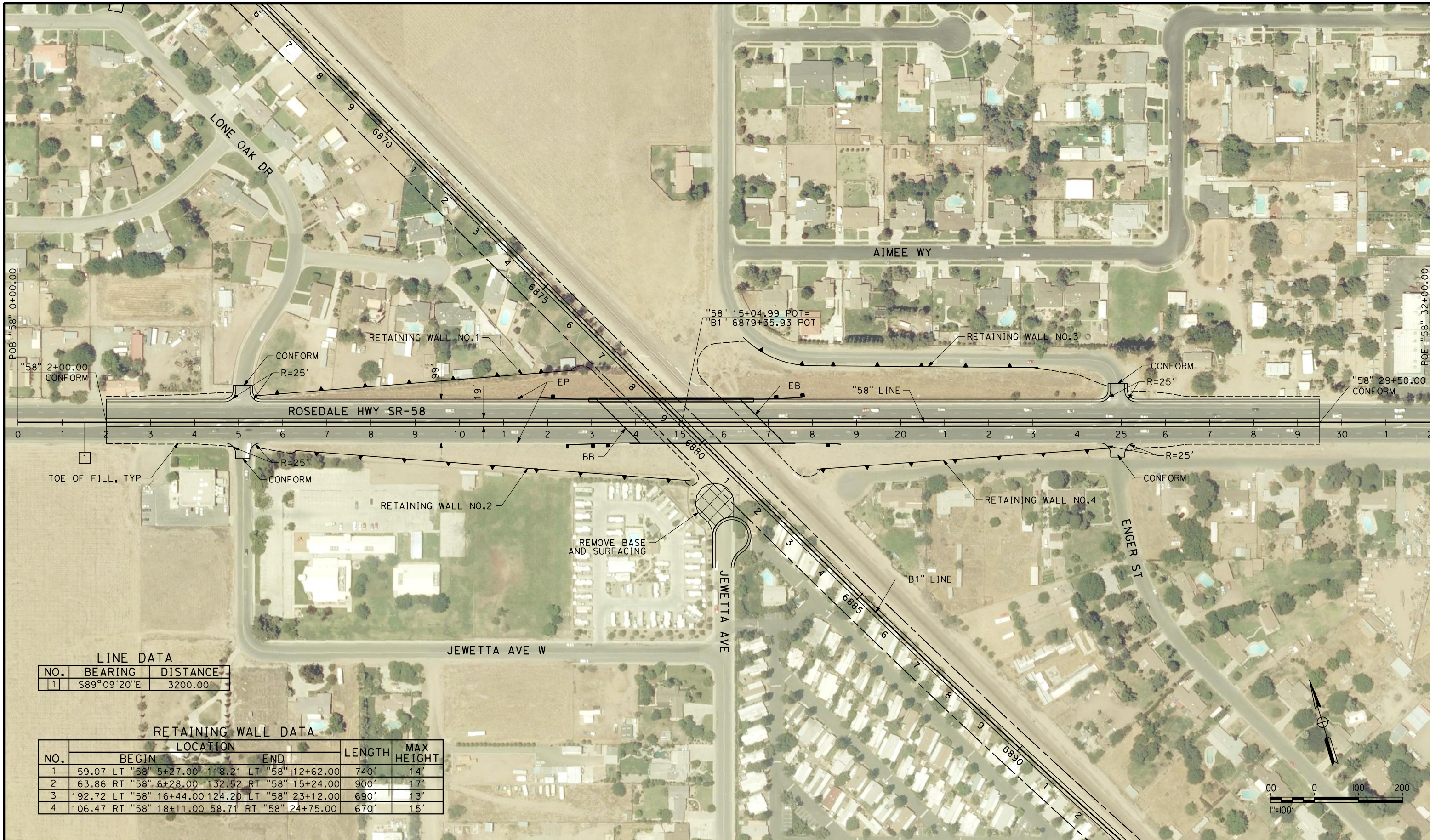
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B1
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0190
SCALE
NOT TO SCALE
SHEET NO.
1 OF 5

6/27/2011 9:28:16 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1980.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°09'20"E	3200.00'

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	59.07 LT "58" 5+27.00	118.21 LT "58" 12+62.00	740'	14'
2	63.86 RT "58" 6+28.00	132.52 RT "58" 15+24.00	900'	17'
3	192.72 LT "58" 16+44.00	124.20 LT "58" 23+12.00	690'	13'
4	106.47 RT "58" 18+11.00	58.71 RT "58" 24+75.00	670'	15'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



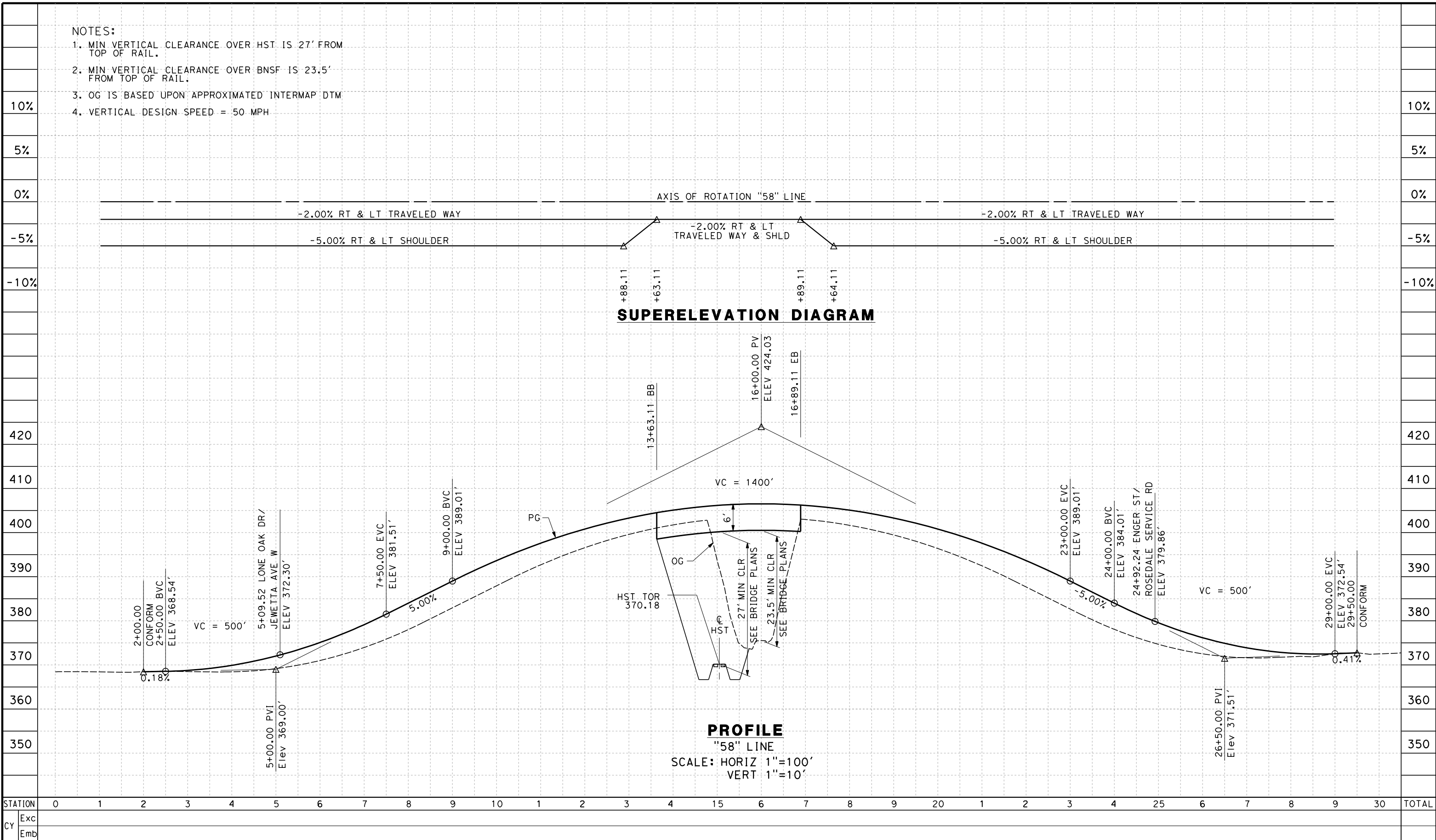
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B1
GRADE SEPARATION LAYOUT
ROSEDALE HIGHWAY / SR-58

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1980
SCALE
AS SHOWN
SHEET NO.
2 OF 5

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' FROM TOP OF RAIL.
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
4. VERTICAL DESIGN SPEED = 50 MPH

6/29/2011 7:13:51 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-2980.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B1
GRADE SEP PROFILE AND SUPERELEVATION DIAGRAM
ROSDALE HIGHWAY / SR-58

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2980
SCALE
AS SHOWN
SHEET NO.
3 OF 5



\$USER\$ \$DATE\$ \$TIME\$ \$FILEL\$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
B. RAWSON
 DRAWN BY
V. ORTEGA
 CHECKED BY
Y. BERI
 IN CHARGE
T. ROWORTH
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B1
 ROADWAY LAYOUT
 N STREET PEDESTRIAN BRIDGE

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CR1401
 SCALE
 AS SHOWN
 SHEET NO.
 4 OF 5

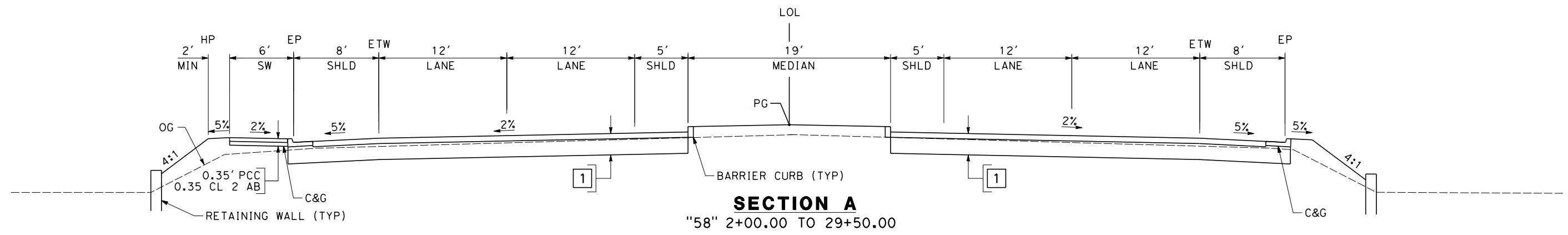
NOTES:

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 0.55' HMA (TYPE A)
2.20' CL 2 AB



SECTION A
"58" 2+00.00 TO 29+50.00

6/27/2011 9:29:33 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-3170.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

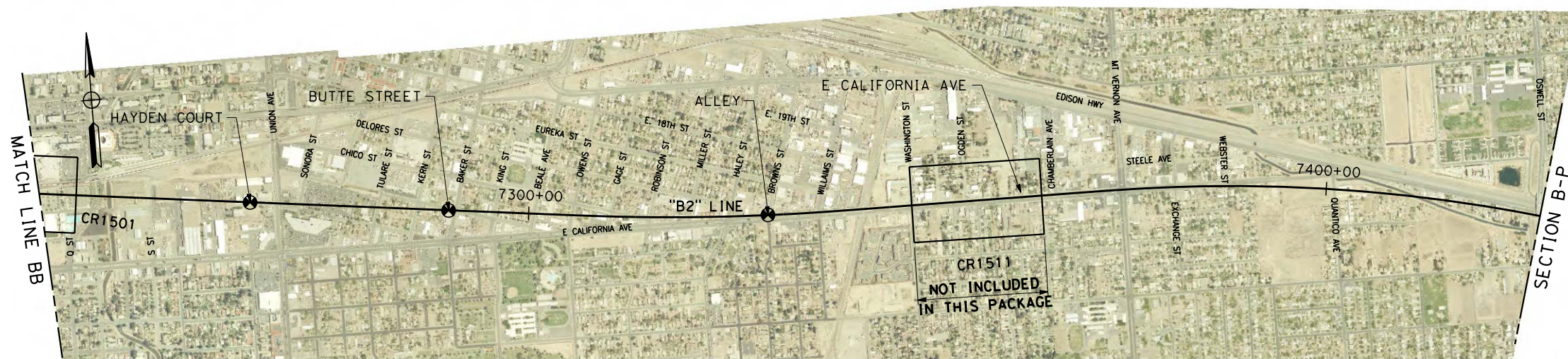
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B1
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
C-0-0000
DRAWING NO.
CT3170
SCALE
NOT TO SCALE
SHEET NO.
5 OF 5



STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.
VERDUGO LANE	6914+50.00
PALM AVENUE	6930+00.00
14th STREET	1752+00.00
S STREET	1752+00.00
ALLEY	7208+00.00
HAYDEN COURT	7265+00.00
BUTTE STREET	7290+00.00
ALLEY	7330+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
05-13-11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B2
ROADWAY / GRADE SERAPATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0200
SCALE
NOT TO SCALE
SHEET NO.
1 OF 8

6/27/2011 9:28:49 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-1981.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°09'20"E	3200.00'

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	59.07 LT "58" 5+27.00	118.21 LT "58" 12+62.00	740'	14'
2	63.86 RT "58" 6+28.00	132.52 RT "58" 15+24.00	900'	17'
3	192.72 LT "58" 16+44.00	124.20 LT "58" 23+12.00	690'	13'
4	106.47 RT "58" 18+11.00	58.71 RT "58" 24+75.00	670'	15'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B2
GRADE SEPARATION LAYOUT
ROSEDALE HIGHWAY / SR-58

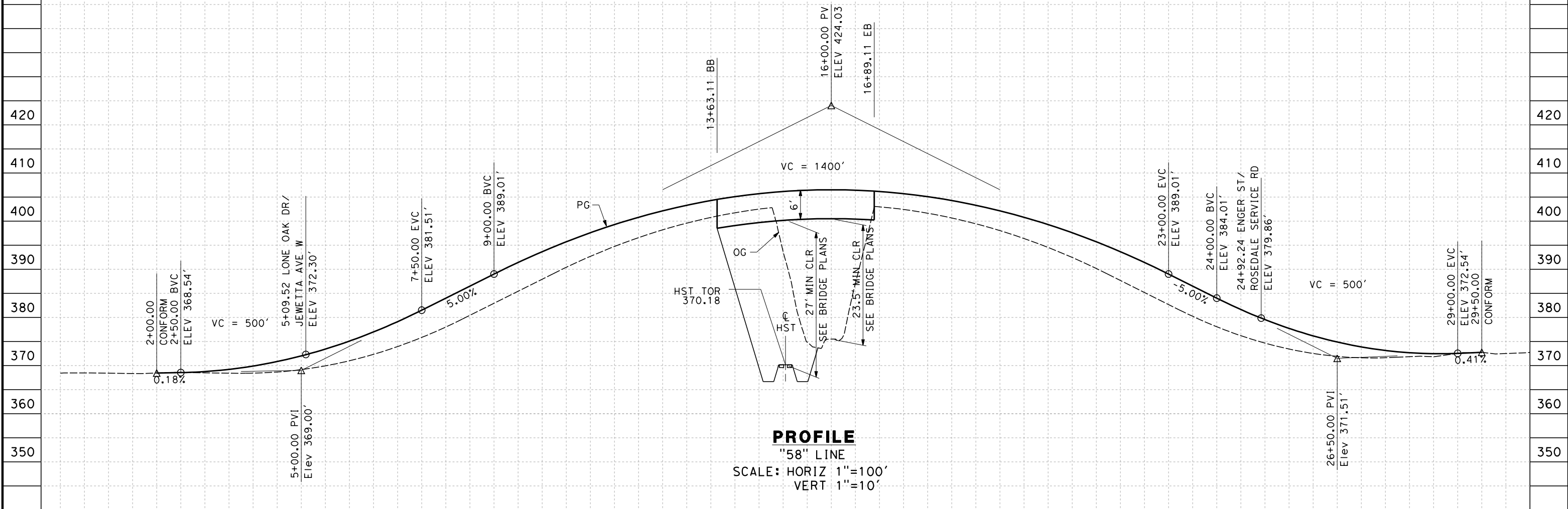
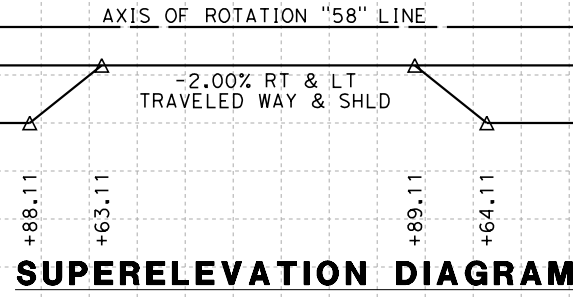
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1981
SCALE
AS SHOWN
SHEET NO.
2 OF 8

5/13/2011 7:38:04 AM \\SNA-DATA2\NSA_Projects\Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-2981.dgn

- NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 2. MIN VERTICAL CLEARANCE OVER BNSF IS 23.5' FROM TOP OF RAIL.
 3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 4. VERTICAL DESIGN SPEED = 50 MPH

10%
5%
0%
-5%
-10%

10%
5%
0%
-5%
-10%



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	7	8	9	30	TOTAL
Exc																																
Emb																																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON

DRAWN BY
V. ORTEGA

CHECKED BY
B. RAWSON

IN CHARGE
O. EARLE

DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
ROSEDALE HIGHWAY / SR-58

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2981

SCALE
AS SHOWN

SHEET NO.
3 OF 8



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
B. RAWSON
 DRAWN BY
V. ORTEGA
 CHECKED BY
Y. BERI
 IN CHARGE
T. ROWORTH
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B2
 ROADWAY LAYOUT
 N STREET PEDESTRIAN BRIDGE

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CR1501
 SCALE
 AS SHOWN
 SHEET NO.
 4 OF 8

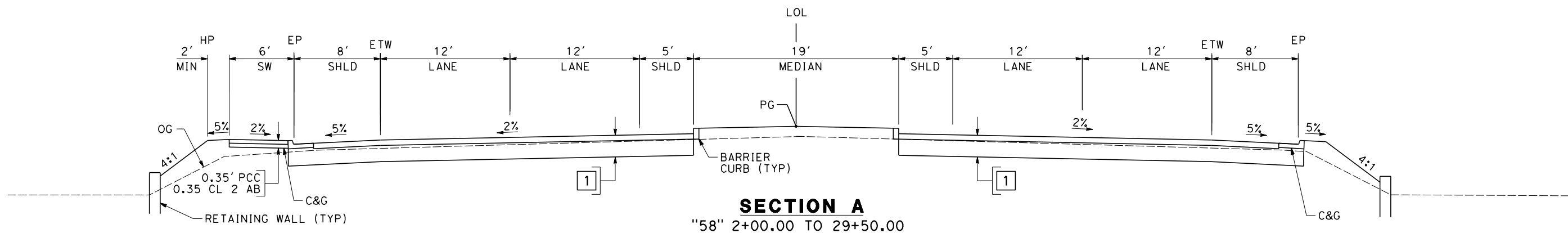
NOTES:

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 0.55' HMA (TYPE A)
- 2.20' CL 2 AB



6/29/2011 10:04:41 AM G:_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CT-3160.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. DEASON
DRAWN BY
V. ORTEGA
CHECKED BY
B. RAWSON
IN CHARGE
O. EARLE
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B2
ROADWAY/GRADE SEPERATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3160
SCALE
NOT TO SCALE
SHEET NO.
7 OF 8