

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

DRAFT

Merced to Fresno Section
Draft EIR-EIS

Volume III:

**Section I – Roadway and Grade
Separation Plans**

BNSF Alternative with Ave 24 Wye

August 2011



CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration



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LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
A1 AVE 24 WYE (GENERAL)						
		B0110-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 1 OF 6
		B0111-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 2 OF 6
		B0112-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 3 OF 6
		B0113-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 4 OF 6
		B0114-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 5 OF 6
		B0115-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 6 OF 6
		B0116-A	BNSF - AVE 24 WYE	GENERAL	ABBREVIATIONS, SYMBOLS & NOTES	SHEET 1 OF 1
		B0117-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 1 OF 4
		B0118-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 2 OF 4
		B0119-A	BNSF - AVE 24 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 3 OF 4
		B0120-A	BNSF - AVE 24 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 4 OF 4
		CT0121-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	GRADE SEPARATION	SHEET 1 OF 1
		CT0122-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	GRADE SEPARATION	SHEET 2 OF 2
		CT5000-A	BNSF - AVE 24 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH		SHEET 1 OF 2
		CT5000-B	BNSF - AVE 24 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH		SHEET 2 OF 2
A1- AVE 24 WYE (LAYOUT)						
1		CT0001-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 1 OF 3
1		CT0002-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 2 OF 3
1		CT0003-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 3 OF 3
2		CT0004-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 1 OF 3
2		CT0005-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 2 OF 3
2		CT0006-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 3 OF 3
3		CT0007-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 1 OF 3
3		CT0008-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 2 OF 3
3		CT0009-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 3 OF 3
4		CT0010-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 1 OF 3
4		CT0011-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 2 OF 3
4		CT0012-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 3 OF 3
5		CT0013-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 1 OF 4
5		CT0014-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 2 OF 4
5		CT0015-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 3 OF 4
5		CT0016-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 4 OF 4
6		CT0017-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 1 OF 3
6		CT0018-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 2 OF 3
6		CT0019-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 3 OF 3
7		CT0020-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 1 OF 3
7		CT0021-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 2 OF 3
7		CT0022-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 3 OF 3
8		CT0023-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 1 OF 3
8		CT0024-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 2 OF 3
8		CT0025-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 3 OF 3
9		CT0026-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 1 OF 3
9		CT0027-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 2 OF 3
9		CT0028-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 3 OF 3
11		CT0032-A	BNSF MAIN LINE - AVE 24 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 1 OF 3
11		CT0033-A	BNSF MAIN LINE - AVE 24 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 2 OF 3
11		CT0034-A	BNSF MAIN LINE - AVE 24 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 3 OF 3
12		CT0035-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 1 OF 3
12		CT0036-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 2 OF 3
12		CT0037-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 3 OF 3
13		CT0038-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 1 OF 3
13		CT0039-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 2 OF 3
13		CT0040-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 3 OF 3
16		CT0048-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - SANTA FE AVE	LAYOUT	SHEET 1 OF 3
16		CT0049-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - SANTA FE AVE	LAYOUT	SHEET 2 OF 3
16		CT0050-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - SANTA FE AVE	LAYOUT	SHEET 3 OF 3
17		CT0051-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 1 OF 3
17		CT0052-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 2 OF 3
17		CT0053-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 3 OF 3
18		CT0054-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	LAYOUT	SHEET 1 OF 3
18		CT0055-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	LAYOUT	SHEET 2 OF 3
18		CT0056-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	LAYOUT	SHEET 3 OF 3
19		CT0057-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 1 OF 3
19		CT0058-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3
19		CT0059-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 3 OF 3
20		CT0060-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 1 OF 3
20		CT0061-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 2 OF 3
20		CT0062-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 3 OF 3
28		CT0100-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	LAYOUT	SHEET 1 OF 3
28		CT0101-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	LAYOUT	SHEET 2 OF 3

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

BNSF - AVE 24
GENERAL

INDEX OF DRAWINGS
SHEET 1 OF 6

CONTRACT NO.
HSR06-007

DRAWING NO.
B0110

SCALE
NONE

SHEET NO.
OF

7/22/2011 12:13:21 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Index of Drawings\COMINED_SET\MF-B-0111.dgn

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
28		CT0102-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	LAYOUT	SHEET 3 OF 3
29		CT0103-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 1 OF 4
29		CT0104-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 2 OF 4
29		CT0105-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 3 OF 4
29		CT0106-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 4 OF 4
30		CT0107-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - ROAD 21	LAYOUT	SHEET 1 OF 3
30		CT0108-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - ROAD 21	LAYOUT	SHEET 2 OF 3
30		CT0109-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - ROAD 21	LAYOUT	SHEET 3 OF 3
31		CT0110-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	LAYOUT	SHEET 1 OF 3
31		CT0111-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	LAYOUT	SHEET 2 OF 3
31		CT0112-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	LAYOUT	SHEET 3 OF 3
32		CT0113-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 1 OF 3
32		CT0114-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 2 OF 3
32		CT0115-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 3 OF 3
33		CT0116-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 3
33		CT0117-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 2 OF 3
33		CT0118-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 3 OF 3
34		CT0119-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 1 OF 3
34		CT0120-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 2 OF 3
35		CT0121-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 3 OF 3
35		CT0122-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 22	LAYOUT	SHEET 1 OF 3
35		CT0123-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 22	LAYOUT	SHEET 2 OF 3
35		CT0124-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 22	LAYOUT	SHEET 3 OF 3
36		CT0125-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 1 OF 3
36		CT0126-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 2 OF 3
36		CT0127-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 3 OF 3
37		CT0128-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 1 OF 3
37		CT0129-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 2 OF 3
37		CT0130-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 3 OF 3
38		CT0131-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 1 OF 3
38		CT0132-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 2 OF 3
38		CT0133-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 3 OF 3
39		CT0134-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 14	LAYOUT	SHEET 1 OF 3
39		CT0135-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 14	LAYOUT	SHEET 2 OF 3
39		CT0136-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 14	LAYOUT	SHEET 3 OF 3
40		CT0137-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 1 OF 3
40		CT0138-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 2 OF 3
40		CT0139-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 3 OF 3
41		CT0140-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 10	LAYOUT	SHEET 1 OF 3
41		CT0141-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 10	LAYOUT	SHEET 2 OF 3
41		CT0142-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 10	LAYOUT	SHEET 3 OF 3
42		CT0143-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 9	LAYOUT	SHEET 1 OF 3
42		CT0144-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 9	LAYOUT	SHEET 2 OF 3
42		CT0145-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 9	LAYOUT	SHEET 3 OF 3
65		CT0146-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 1 OF 3
65		CT0147-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 2 OF 3
65		CT0148-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 3 OF 3
64		CT0149-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - G STREET	LAYOUT	SHEET 1 OF 1
MC - A1- AVE 24 WYE - ALT 01 (LAYOUT)						
70		CT0200-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - WHITE ROCK RD	LAYOUT	SHEET 1 OF 3
70		CT0201-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - WHITE ROCK RD	LAYOUT	SHEET 2 OF 3
70		CT0202-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - WHITE ROCK RD	LAYOUT	SHEET 3 OF 3
71		CT0203-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 1 OF 3
71		CT0204-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 2 OF 3
71		CT0205-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 3 OF 3
72		CT0206-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 1 OF 3
72		CT0207-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 2 OF 3
72		CT0208-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 3 OF 3
73		CT0209-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 1 OF 3
73		CT0210-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 2 OF 3
73		CT0211-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 3 OF 3
74		CT0212-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	LAYOUT	SHEET 1 OF 3
74		CT0213-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	LAYOUT	SHEET 2 OF 3
74		CT0214-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	LAYOUT	SHEET 3 OF 3
MC - A1 - AVE 24 WYE - ALT 02 (LAYOUT)						
75		CT0250-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 1 OF 3
75		CT0251-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 2 OF 3
75		CT0252-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 3 OF 3
76		CT0253-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 1 OF 3
76		CT0254-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 2 OF 3
76		CT0255-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 3 OF 3
77		CT0256-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 1 OF 3

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 24
GENERAL
INDEX OF DRAWINGS
SHEET 2 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
B0111-A
SCALE
NONE
SHEET NO.
OF

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LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
77		CT0257-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 2 OF 3
77		CT0258-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 3 OF 3
78		CT0259-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 1 OF 3
78		CT0260-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3
78		CT0261-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 3 OF 3
MC - A1 - AVE 24 WYE - ALT 03 (LAYOUT)						
79		CT0300-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 1 OF 3
79		CT0301-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 2 OF 3
79		CT0302-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 3 OF 3
80		CT0303-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 1 OF 3
80		CT0304-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3
80		CT0305-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 3 OF 3
81		CT0306-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 1 OF 3
81		CT0307-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 2 OF 3
81		CT0308-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 3 OF 3
82		CT0309-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 1 OF 3
82		CT0310-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 2 OF 3
82		CT0311-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 3 OF 3
A1 - AVE 24 WYE (SUPERELEVATION TEMPLATES)						
		CT0996-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 1 OF 4
		CT0997-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 2 OF 4
		CT0998-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		CT0999-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
A1 - AVE 24 WYE (PROFILES)						
1		CT1000-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 1 OF 3
1		CT1001-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 2 OF 3
1		CT1002-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 3 OF 3
2		CT1003-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 1 OF 3
2		CT1004-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 2 OF 3
2		CT1005-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 3 OF 3
3		CT1006-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 1 OF 3
3		CT1007-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 2 OF 3
3		CT1008-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 3 OF 3
4		CT1009-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 1 OF 3
4		CT1010-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 2 OF 3
4		CT1011-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 3 OF 3
5		CT1012-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 1 OF 3
5		CT1013-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 2 OF 3
5		CT1014-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 3 OF 3
6		CT1015-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 1 OF 3
6		CT1016-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 2 OF 3
6		CT1017-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 3 OF 3
7		CT1018-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 1 OF 3
7		CT1019-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 2 OF 3
7		CT1020-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 3 OF 3
8		CT1021-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	PROFILE	SHEET 1 OF 3
8		CT1022-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	PROFILE	SHEET 2 OF 3
8		CT1023-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	PROFILE	SHEET 3 OF 3
9		CT1024-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 1 OF 3
9		CT1025-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 2 OF 3
9		CT1026-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 3 OF 3
11		CT1030-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 1 OF 3
11		CT1031-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 2 OF 3
11		CT1032-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 3 OF 3
12		CT1033-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	PROFILE	SHEET 1 OF 3
12		CT1034-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	PROFILE	SHEET 2 OF 3
12		CT1035-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	PROFILE	SHEET 3 OF 3
13		CT1036-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 1 OF 3
13		CT1037-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 2 OF 3
13		CT1038-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 3 OF 3
16		CT1045-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE	SHEET 1 OF 3
16		CT1046-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE	SHEET 2 OF 3
16		CT1047-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE	SHEET 3 OF 3
17		CT1048-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	PROFILE	SHEET 1 OF 3
17		CT1049-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	PROFILE	SHEET 2 OF 3
17		CT1050-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	PROFILE	SHEET 3 OF 3
18		CT1051-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	PROFILE	SHEET 1 OF 3
18		CT1052-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	PROFILE	SHEET 2 OF 3
18		CT1053-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	PROFILE	SHEET 3 OF 3
19		CT1054-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 1 OF 3

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

BNSF - AVE 24
GENERAL
INDEX OF DRAWINGS
SHEET 3 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
B0112-A
SCALE
NONE
SHEET NO.
OF

7/22/2011 12:13:37 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Index of Drawings\COMINED_SET\MF-B-0113.dgn

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
19		CT1055-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 2 OF 3
19		CT1056-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 3 OF 3
20		CT1057-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	PROFILE	SHEET 1 OF 3
20		CT1058-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	PROFILE	SHEET 2 OF 3
20		CT1059-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	PROFILE	SHEET 3 OF 3
28		CT1100-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROFILE	SHEET 1 OF 3
28		CT1101-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROFILE	SHEET 2 OF 3
28		CT1102-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROFILE	SHEET 3 OF 3
29		CT1103-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 1 OF 4
29		CT1104-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 2 OF 4
29		CT1105-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 3 OF 4
29		CT1106-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 4 OF 4
30		CT1107-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - ROAD 21	PROFILE	SHEET 1 OF 3
30		CT1108-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - ROAD 21	PROFILE	SHEET 2 OF 3
30		CT1109-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - ROAD 21	PROFILE	SHEET 3 OF 3
31		CT1110-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROFILE	SHEET 1 OF 3
31		CT1111-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROFILE	SHEET 2 OF 3
31		CT1112-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROFILE	SHEET 3 OF 3
32		CT1113-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 1 OF 3
32		CT1114-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 2 OF 3
32		CT1115-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 3 OF 3
33		CT1116-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 1 OF 3
33		CT1117-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 2 OF 3
33		CT1118-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 3 OF 3
34		CT1119-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 1 OF 3
34		CT1120-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 2 OF 3
34		CT1121-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 3 OF 3
35		CT1122-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 22	PROFILE	SHEET 1 OF 3
35		CT1123-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 22	PROFILE	SHEET 2 OF 3
35		CT1124-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 22	PROFILE	SHEET 3 OF 3
36		CT1125-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 1 OF 3
36		CT1126-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 2 OF 3
36		CT1127-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 3 OF 3
37		CT1128-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 1 OF 3
37		CT1129-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 2 OF 3
37		CT1130-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 3 OF 3
38		CT1131-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 1 OF 3
38		CT1132-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 2 OF 3
38		CT1133-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 3 OF 3
39		CT1134-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 14	PROFILE	SHEET 1 OF 3
39		CT1135-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 14	PROFILE	SHEET 2 OF 3
39		CT1136-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 14	PROFILE	SHEET 3 OF 3
40		CT1137-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 1 OF 3
40		CT1138-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 2 OF 3
40		CT1139-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 3 OF 3
41		CT1140-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 10	PROFILE	SHEET 1 OF 3
41		CT1141-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 10	PROFILE	SHEET 2 OF 3
41		CT1142-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 10	PROFILE	SHEET 3 OF 3
42		CT1143-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 9	PROFILE	SHEET 1 OF 3
42		CT1144-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 9	PROFILE	SHEET 2 OF 3
42		CT1145-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 9	PROFILE	SHEET 3 OF 3
65		CT1146-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 1 OF 3
65		CT1147-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 2 OF 3
65		CT1148-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 3 OF 3
64		CT1149-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - G STREET	PROFILE	SHEET 1 OF 1
MC - A1 - AVE 24 WYE - ALT 01 (PROFILES)						
70		CT1200-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - WHITE ROCK RD	PROFILE	SHEET 1 OF 3
70		CT1201-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - WHITE ROCK RD	PROFILE	SHEET 2 OF 3
70		CT1202-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - WHITE ROCK RD	PROFILE	SHEET 3 OF 3
71		CT1203-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 1 OF 3
71		CT1204-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 2 OF 3
71		CT1205-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 3 OF 3
72		CT1206-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 1 OF 3
72		CT1207-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 2 OF 3
72		CT1208-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 3 OF 3
73		CT1209-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 1 OF 3
73		CT1210-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 2 OF 3
73		CT1211-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 3 OF 3
74		CT1212-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	PROFILE	SHEET 1 OF 3
74		CT1213-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	PROFILE	SHEET 2 OF 3
74		CT1214-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	PROFILE	SHEET 3 OF 3
MC - A1 - AVE 24 WYE - ALT 02 (PROFILES)						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

BNSF - AVE 24
GENERAL
INDEX OF DRAWINGS
SHEET 4 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
B0113-A
SCALE
NONE
SHEET NO.
OF

7/22/2011 12:13:46 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Index of Drawings\COMINED_SET\MF-B-0114.dgn

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
75		CT1250-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 1 OF 3
75		CT1251-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 2 OF 3
75		CT1252-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 3 OF 3
76		CT1253-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 1 OF 3
76		CT1254-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 2 OF 3
76		CT1255-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 3 OF 3
77		CT1256-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 1 OF 3
77		CT1257-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 2 OF 3
77		CT1258-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 3 OF 3
78		CT1259-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 1 OF 3
78		CT1260-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 2 OF 3
78		CT1261-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 3 OF 3
MC - A1 - AVE 24 WYE - ALT 03 (PROFILES)						
79		CT1300-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	PROFILE	SHEET 1 OF 3
79		CT1301-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	PROFILE	SHEET 2 OF 3
79		CT1302-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	PROFILE	SHEET 3 OF 3
80		CT1303-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 1 OF 3
80		CT1304-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 2 OF 3
80		CT1305-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 3 OF 3
81		CT1306-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	PROFILE	SHEET 1 OF 3
81		CT1307-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	PROFILE	SHEET 2 OF 3
81		CT1308-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	PROFILE	SHEET 3 OF 3
82		CT1309-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	PROFILE	SHEET 1 OF 3
82		CT1310-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	PROFILE	SHEET 2 OF 3
82		CT1311-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	PROFILE	SHEET 3 OF 3
CH2 (LAYOUTS AND PROFILES)						
		T-1		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TITLE	
		X-1		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-2		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-3		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-4		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-5		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-6		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-7		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-8		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-9		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-10		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-11		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-12		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-13		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-14		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-15		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-16		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-17		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-18		GOLDEN STATE BOULEVARD RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		K-1		GOLDEN STATE BOULEVARD RE-ALIGNMENT	KEY MAP	
		L-1		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"NB" 75+73 TO "NB" 100+00
		L-2		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 100+00 TO "GSB" 111+50
		L-3		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 111+50 TO "GSB" 138+50
		L-4		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 138+50 TO "GSB" 163+50
		L-5		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 163+50 TO "GSB" 191+00
		L-6		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 191+00 TO "GSB" 216+00
		L-7		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 216+00 TO "GSB" 241+00
		L-8		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 241+00 TO "GSB" 264+00
		L-9		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 264+00 TO "GSB" 289+00
		L-10		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 289+00 TO "GSB" 314+00
		L-11		GOLDEN STATE BOULEVARD RE-ALIGNMENT	LAYOUT	"GSB" 314+00 TO "GSB" 338+77
		L-12		VETERANS BOULEVARD	LAYOUT	"V" 105+00 TO "V" 122+35
		L-13		BULLARD AVENUE	LAYOUT	"BU" 100+00 TO "BU" 132+72
		L-14		SHAW AVENUE RE-ALIGNMENT	LAYOUT	"S" 50+00 TO "S" 66+00
		L-15		SHAW AVENUE RE-ALIGNMENT	LAYOUT	"S" 66+00 TO "S" 80+81
		L-16		CORNELIA AVENUE RE-ALIGNMENT	LAYOUT	"C" 10+00 TO "C" 26+00
		L-17		SANTA ANA AVENUE RE-ALIGNMENT	LAYOUT	"C" 26+00 TO "C" 46+23
		SE-1		GOLDEN STATE BOULEVARD RE-ALIGNMENT	SUPERELEVATION DIAGRAM	
		SE-2		GOLDEN STATE BOULEVARD RE-ALIGNMENT	SUPERELEVATION DIAGRAM	
		BR-1		GOLDEN STATE BOULEVARD RE-ALIGNMENT	ADVANCED PLANNING STUDY	
		BR-2		GOLDEN STATE BOULEVARD RE-ALIGNMENT	ADVANCED PLANNING STUDY	
		BR-3		GOLDEN STATE BOULEVARD RE-ALIGNMENT	ADVANCED PLANNING STUDY	
		BR-4		GOLDEN STATE BOULEVARD RE-ALIGNMENT	ADVANCED PLANNING STUDY	
		BR-5		GOLDEN STATE BOULEVARD RE-ALIGNMENT	ADVANCED PLANNING STUDY	
URS (LAYOUTS AND PROFILES)						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
07/20/2011

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

BNSF - AVE 24
GENERAL
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CONTRACT NO.
HSR06-007

DRAWING NO.
B0114-A

SCALE
NONE

SHEET NO.
OF

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
		CT9550-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	W MCKINLEY AVE
		CT9551-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	N GOLDEN STATE BLVD
		CT9552-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	W OLIVE AVE
		CT9553-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	BELMONT AVE
		CT9554-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	STANISLAUS ST & TUOLUMNE ST
		CT9555-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	FRESNO ST
		CT9556-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	TULARE ST OVERHEAD
		CT9557-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	TULARE ST UNDERPASS
		CT9558-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEPARATION LAYOUT	VENTURA ST
		CT9559-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	W MCKINLEY AVE
		CT9560-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	W MCKINLEY CONNECTOR
		CT9561-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	N WEBER AVE
		CT9562-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	N WEST AVE
		CT9563-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	N GOLDEN STATE BLVD
		CT9564-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	N GOLDEN STATE BLVD
		CT9565-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	W OLIVE AVE
		CT9566-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	BELMONT AVE
		CT9567-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	N WESLEY AVE
		CT9568-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	N H ST
		CT9569-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	STANISLAUS ST
		CT9570-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	TUOLUMNE ST
		CT9571-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	FRESNO ST
		CT9572-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	H ST
		CT9573-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	G ST
		CT9574-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	TULARE ST - OVERHEAD
		CT9575-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	TULARE ST - UNDERPASS
		CT9576-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	G ST (TULARE ST UNDERPASS)
		CT9577-A	FRESNO SUBSECTION	ALIGNMENT F1	GRADE SEP PROFILE & SUPERELEVATION DIAGRAM	VENTURA ST
		CT9578-A	FRESNO SUBSECTION	ALIGNMENT F1	ROADWAY LAYOUT	N THORNE AVE
		CT9579-A	FRESNO SUBSECTION	ALIGNMENT F1	ROADWAY PROFILE & SUPERELEVATION DIAGRAM	N THORNE AVE
		CT9580-A	FRESNO SUBSECTION	ALIGNMENT F1	ROADWAY/GRADE SEPARATION	TYPICAL CROSS SECTIONS
		CT9581-A	FRESNO SUBSECTION	ALIGNMENT F1	ROADWAY/GRADE SEPARATION	TYPICAL CROSS SECTIONS
		CT9582-A	FRESNO SUBSECTION	ALIGNMENT F1	ROADWAY/GRADE SEPARATION	TYPICAL CROSS SECTIONS

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DESIGNED BY
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07/20/2011

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

BNSF - AVE 24
GENERAL
INDEX OF DRAWINGS
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CONTRACT NO.
HSR06-007

DRAWING NO.
B0115-A

SCALE
NONE

SHEET NO.
OF

ABBREVIATIONS

ALIGNMENT

HORIZONTAL

BC BEGINNING OF CURVE
 EC END OF CURVE
 PC POINT OF CURVE
 PI POINT OF INTERSECTION OF TWO TANGENTS
 POC POINT ON CURVE
 POT POINT ON TANGENT
 PRC POINT OF REVERSE CURVES
 PT POINT OF TANGENCY
 R RADIUS OF CURVATURE IN FEET
 V, DS DESIGN VELOCITY IN MILES PER HOUR

VERTICAL

PVC POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
 PVI POINT OF VERTICAL INTERSECTION (OF TANGENTS)
 PVT POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
 VC VERTICAL CURVE

MISCELLANEOUS

BEG BEGIN
 BLVD BOULEVARD
 CL CENTER LINE
 CLR CENTERLINE, CLASS
 CLR CLEAR
 COL COLUMN
 DWG DRAWING
 EQ EQUATION
 EXIST(E) EXISTING
 IN INCH
 LT LEFT
 MAX MAXIMUM
 MIN MINIMUM
 N NORTH
 NB NORTH BOUND
 NTS NOT TO SCALE
 OG ORIGINAL GROUND
 O/H OH OVERHEAD
 PG&E PACIFIC GAS & ELECTRIC
 PGL, FG PROFILE GRADE LINE
 RR RAILROAD
 RD ROAD
 R/W RIGHT OF WAY
 RT RIGHT
 SS SANITARY SEWER
 SHT SHEET
 ST STREET
 STD STANDARD
 SD STORM DRAIN
 STRUCT, STR STRUCTURE
 T TELEPHONE
 (OH) OVERHEAD LINE
 (UG) UNDERGROUND LINE
 TOR TOP OF RAIL
 TK TRACK
 TYP TYPICAL
 TBD TO BE DETERMINED
 TF TELECOMMUNICATIONS FIBER
 OPTIC
 V VERT VERTICAL
 W WATER, WEST

SYMBOLS

————— MATCH LINE
 ————— HST TRACK
 - - - - - PROPOSED HST RIGHT-OF-WAY
 ———+——— FREIGHT/PASSENGER TRACK - EXISTING
 ———-——— EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES
 ▲▲▲▲ RETAINING WALLS
 - - - - - ORIGINAL GROUND
 ——— G16 ——— GAS LINE (16")
 - - - TC ——— COMMUNICATION LINE
 - - - W ——— WATER LINE
 ——— F0 ——— FIBER OPTIC LINE
 ——— -E ——— ELECTRICAL LINE
 X ELECTRICAL TOWER
 - - - S ——— SEWER LINE
 - - - SD ——— STORM DRAIN LINE
 - - - O ——— FUEL LINE
 - - - TC ——— TELEPHONE LINE
 ——— P12 ——— PETROLEUM LINE (12")
 ——— (OH) ——— OVERHEAD
 NORTH ARROW
 PVI

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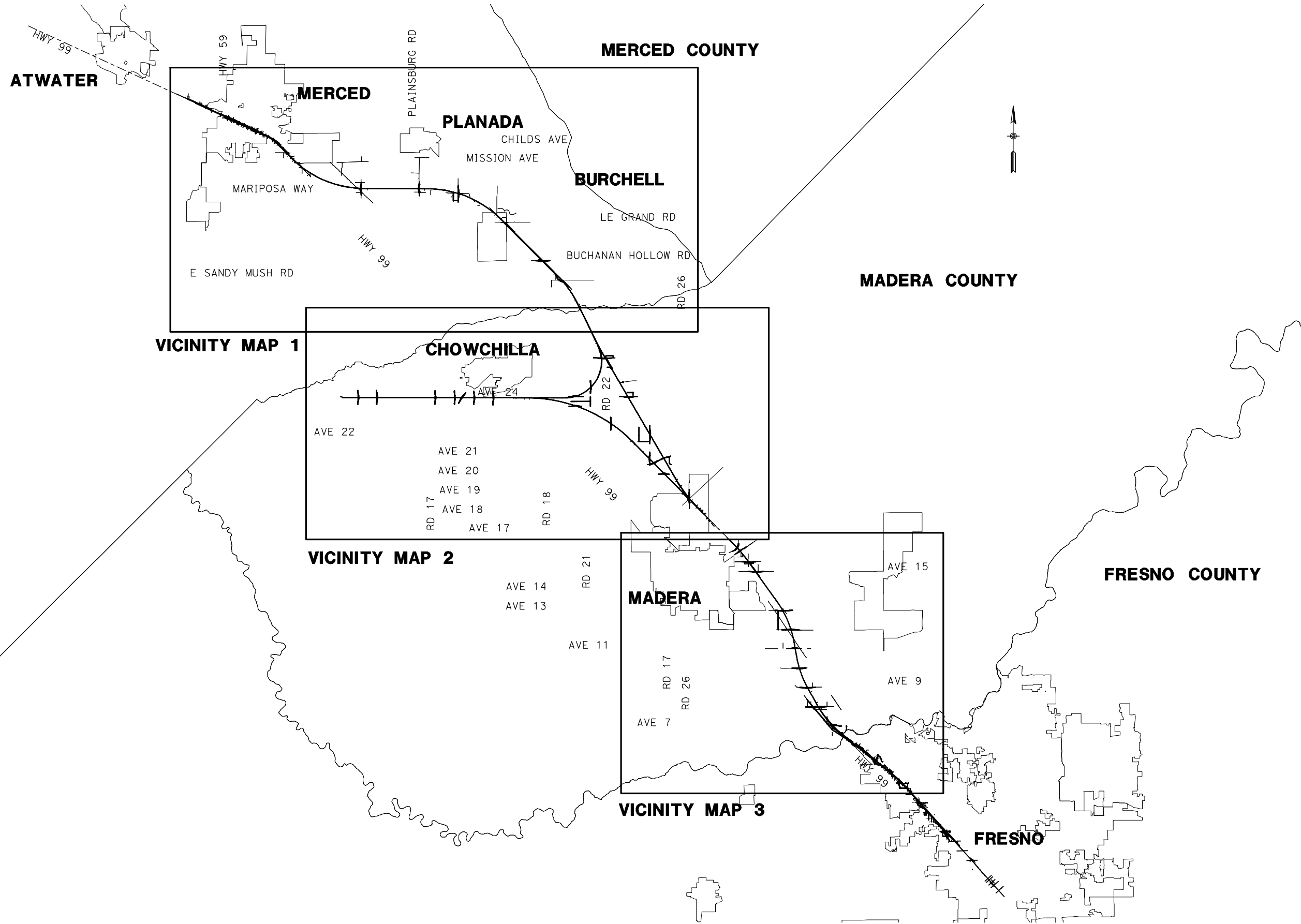
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 24 WYE
 GENERAL
 ABBREVIATIONS, SYMBOLS & NOTES
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CONTRACT NO.
HSR06-007
 DRAWING NO.
B0116-A
 SCALE
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 SHEET NO.
OF

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MERCED TO FRESNO
BNSF - AVE 24 WYE

INDEX MAP
SHEET 1 OF 4

CONTRACT NO.
HSR06-007

DRAWING NO.
B0117-A

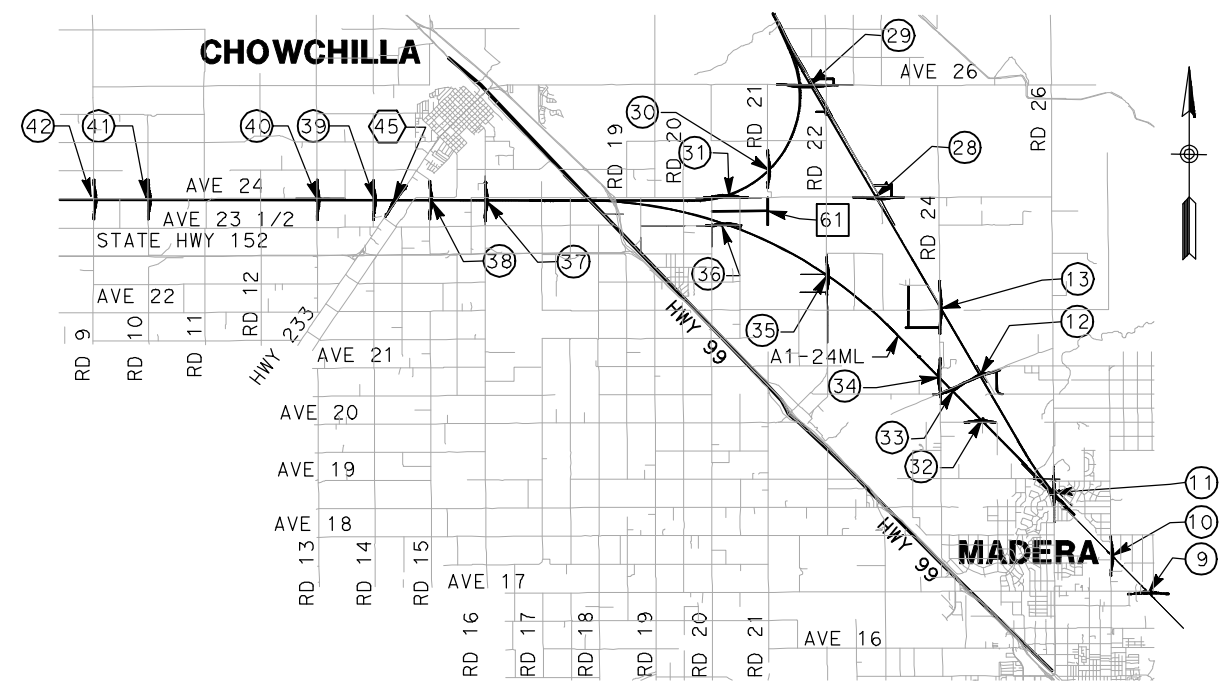
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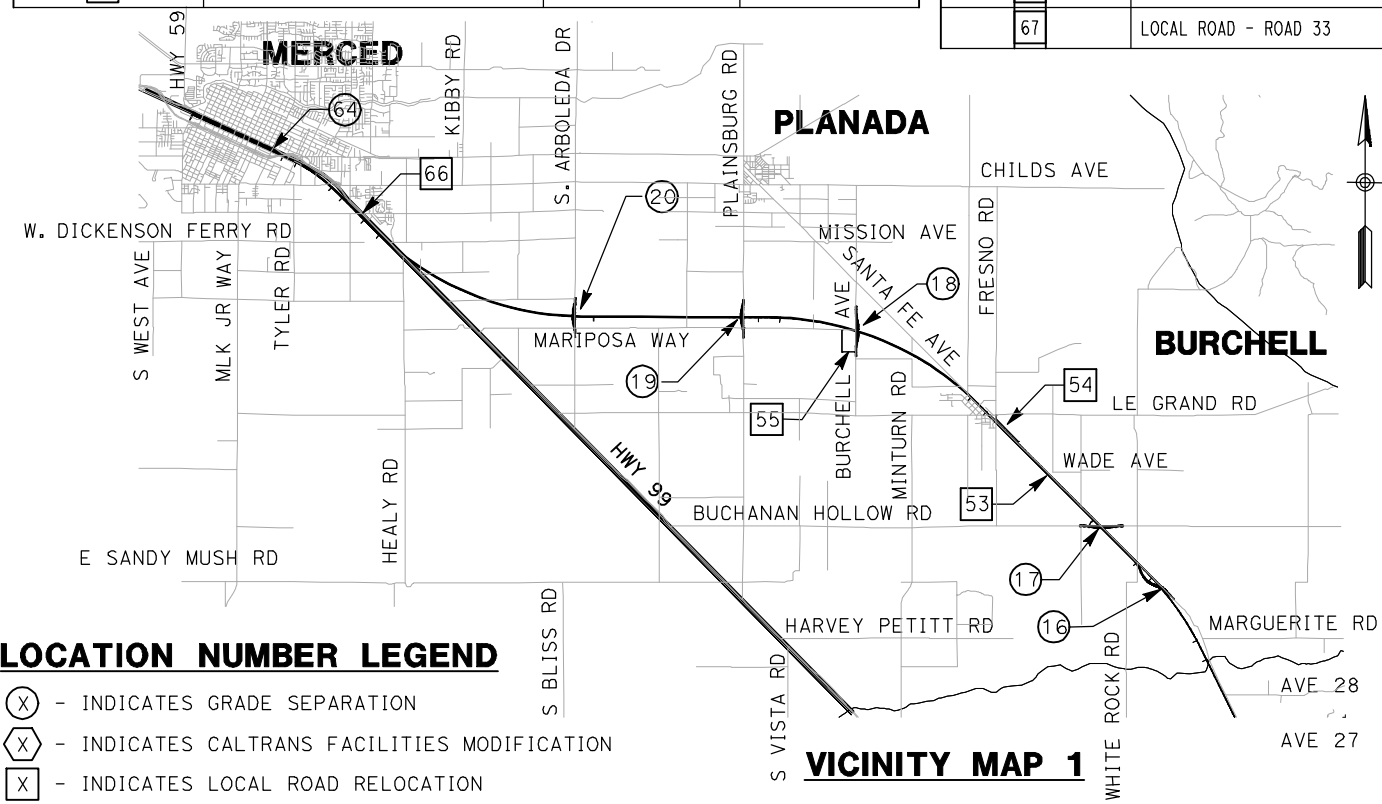
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LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
1	GRADE SEPARATION - AVENUE 9	CT0001-A - CT0003-A	ST1001
2	GRADE SEPARATION - AVENUE 10	CT0004-A - CT0006-A	ST1002
3	GRADE SEPARATION - AVENUE 11	CT0007-A - CT0009-A	ST1003
4	GRADE SEPARATION - AVENUE 12	CT0010-A - CT0012-A	ST1004
5	GRADE SEPARATION - AVENUE 13	CT0013-A - CT0016-A	ST1005
6	GRADE SEPARATION - AVENUE 15	CT0017-A - CT0019-A	ST1006
7	GRADE SEPARATION - AVENUE 15 1/2	CT0020-A - CT0022-A	ST1007
8	GRADE SEPARATION - RAYMOND RD	CT0023-A - CT0025-A	ST1008
9	GRADE SEPARATION - AVENUE 17	CT0026-A - CT0028-A	ST1009
11	UNDERPASS - ROAD 26	CT0032-A - CT0034-A	ST1011
12	GRADE SEPARATION - AVENUE 21	CT0035-A - CT0037-A	ST1012
13	GRADE SEPARATION - ROAD 24	CT0038-A - CT0040-A	ST1013
16	GRADE SEPARATION - SANTA FE AVE	CT0048-A - CT0050-A	ST1016
17	GRADE SEPARATION - BUCHANAN HOLLOW	CT0051-A - CT0053-A	ST1017
18	GRADE SEPARATION - BURCHELL AVE	CT0054-A - CT0056-A	ST1018
19	GRADE SEPARATION - PLAINSBURG RD	CT0057-A - CT0059-A	ST1019
20	GRADE SEPARATION - ARBOLEDA DR	CT0060-A - CT0062-A	ST1020
64	GRADE SEPARATION - G STREET	CT0149-A	ST1180
65	GRADE SEPARATION - AVENUE 7	CT0146-A - CT0148-A	ST1070
43	CALTRANS - AVENUE 8	CT2000-A - CT2003-A	ST1000
44	CALTRANS - SR 145	CT2004-A - CT2006-A	
46	LOCAL ROAD - ROAD 30 1/2	CR4000-A	

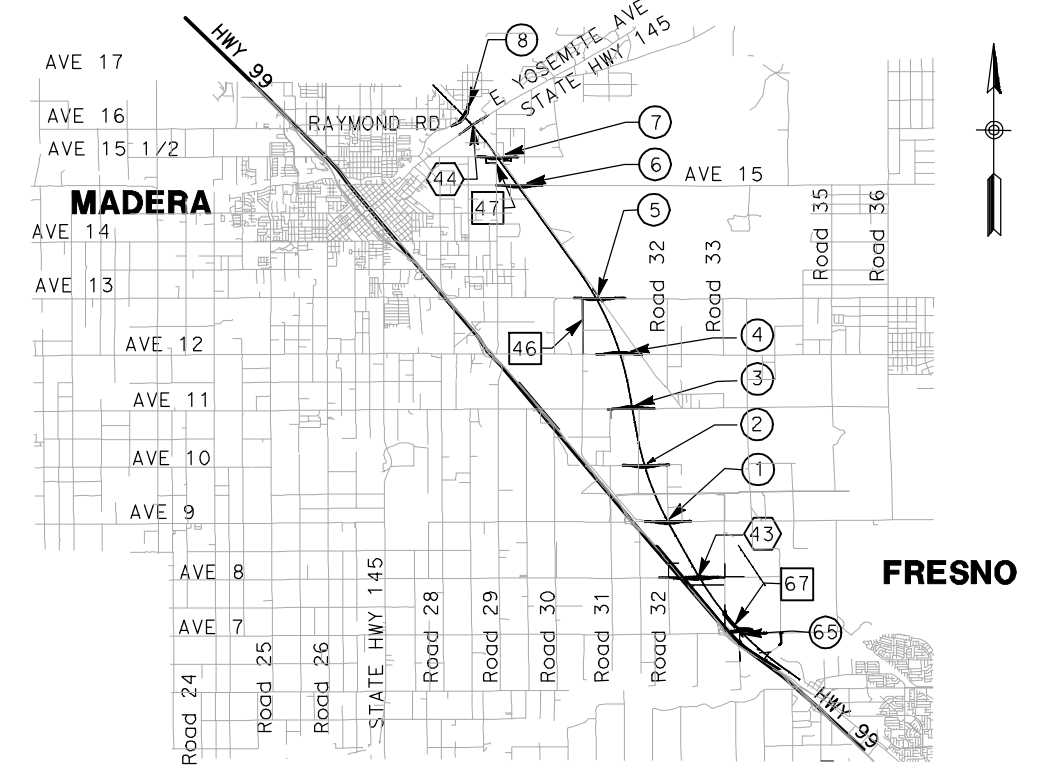
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
47	LOCAL ROAD - ROAD 29	CR4001-A	
53	LOCAL ROAD - SANTA FE AVE	CR4007-A - CR4009-A	
54	LOCAL ROAD - SANTA FE AVE (SOUTH)	CR4009-A	
55	LOCAL ROAD - BURCHELL RD	CR4010-A	
28	GRADE SEPARATION - AVENUE 24	CT0100-A - CT0102-A	ST1030
29	GRADE SEPARATION - AVENUE 26	CT0103-A - CT0106-A	ST1031 - ST1032
30	GRADE SEPARATION - ROAD 21	CT0107-A - CT0109-A	ST1033
31	GRADE SEPARATION - AVENUE 24	CT0110-A - CT0112-A	ST1034
32	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
33	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
34	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
35	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
36	GRADE SEPARATION - AVENUE 23 1/2	CT0125-A - CT0127-A	ST1041
37	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
38	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
39	GRADE SEPARATION - ROAD 14	CT0134-A - CT0136-A	ST1044
40	GRADE SEPARATION - ROAD 13	CT0137-A - CT0139-A	ST1045
41	GRADE SEPARATION - ROAD 10	CT0140-A - CT0142-A	ST1046
42	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1047
45	CALTRANS - SR 233	CT0210-A - CT0212-A	ST1150
61	LOCAL ROAD - AVENUE 23 1/2	CR4100-A - CR4101-A	
66	LOCAL ROAD - PROP W. FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-A	



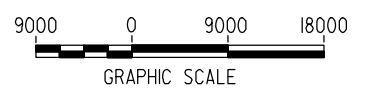
VICINITY MAP 4



VICINITY MAP 1



VICINITY MAP 3



FOR ROADWAY STRUCTURES
SEE STRUCTURAL
INDEX MAPS

- LOCATION NUMBER LEGEND**
- (X) - INDICATES GRADE SEPARATION
 - (X) - INDICATES CALTRANS FACILITIES MODIFICATION
 - (X) - INDICATES LOCAL ROAD RELOCATION

REV	DATE	BY	CHK	APP	DESCRIPTION

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R. GIBSON
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T. WALTZ
CHECKED BY
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07/20/2011

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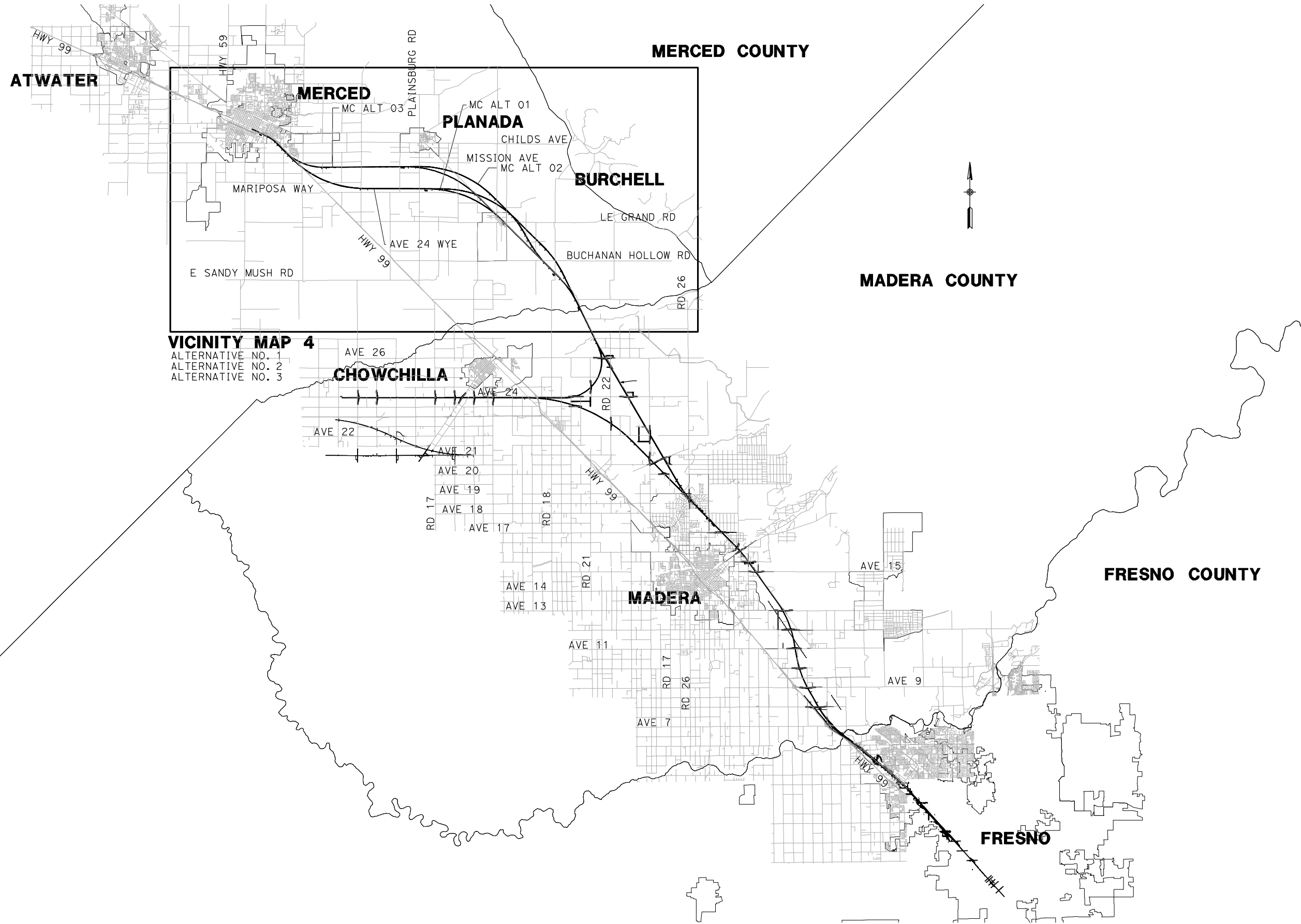


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 24 WYE

INDEX MAP
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CONTRACT NO.
HSR06-007
DRAWING NO.
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VICINITY MAP 4
 ALTERNATIVE NO. 1
 ALTERNATIVE NO. 2
 ALTERNATIVE NO. 3

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 24 WYE
 MC-ALTERNATIVES NO. 1, NO. 2, & NO. 3

INDEX MAP
 SHEET 3 OF 4

CONTRACT NO.
HSR06-007

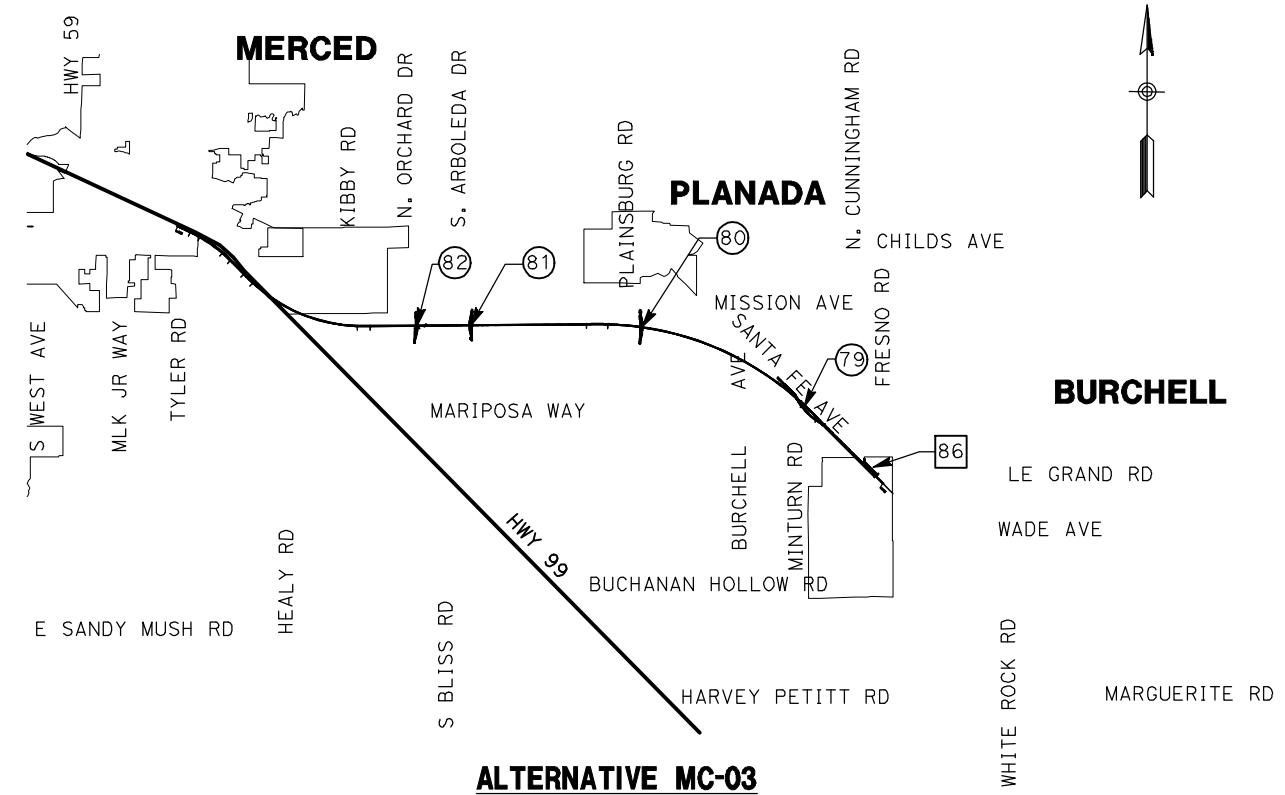
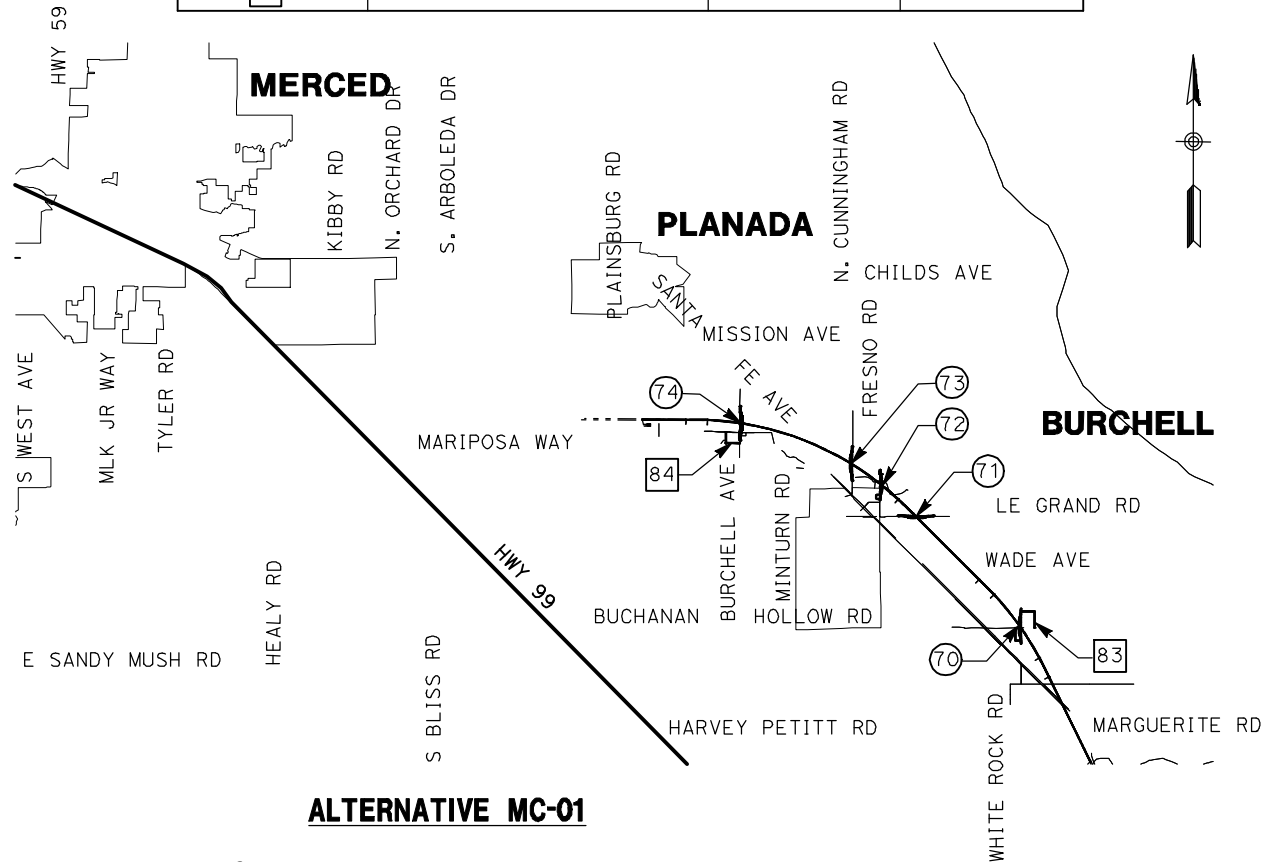
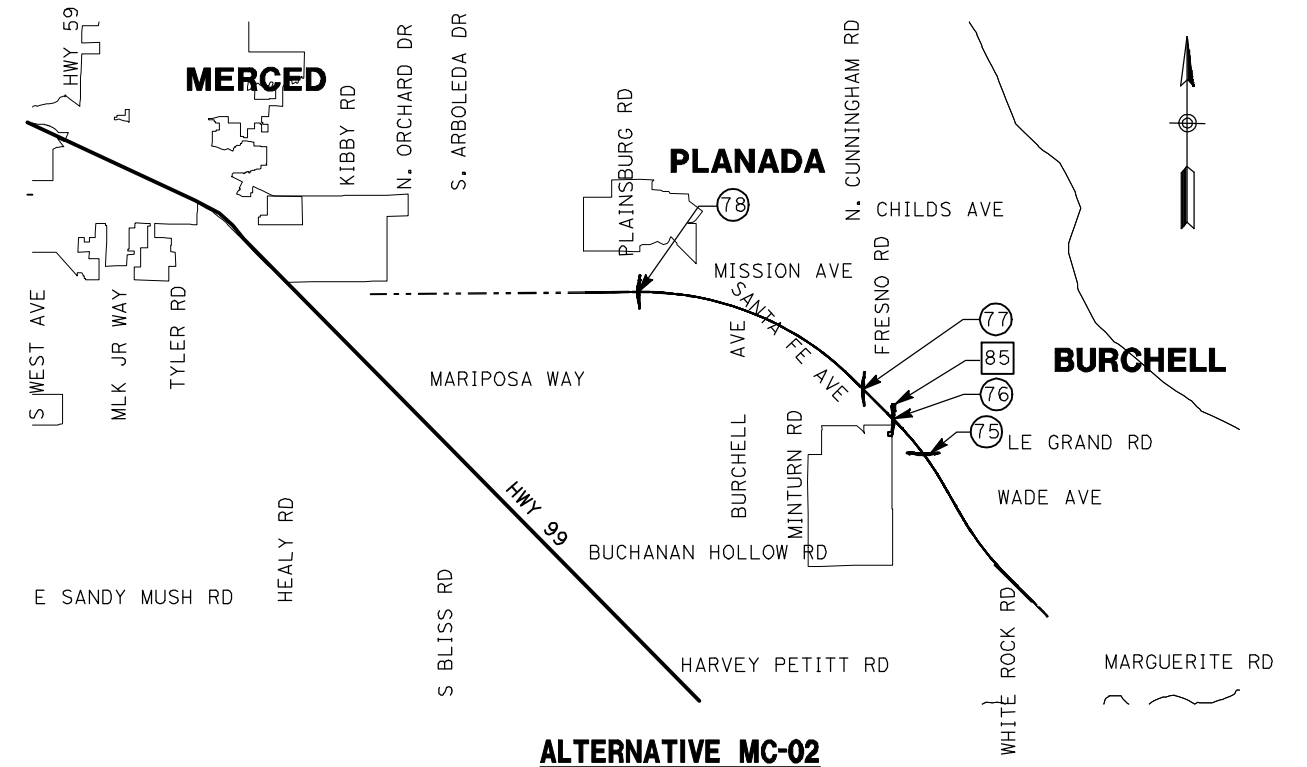
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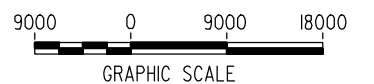
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
70	GRADE SEPARATION - WHITE ROCK RD	CT0200-A - CT0202-A	ST1050
71	GRADE SEPARATION - LE GRAND RD	CT0203-A - CT0205-A	ST1051
72	GRADE SEPARATION - S. FRESNO RD	CT0206-A - CT0208-A	ST1052
73	GRADE SEPARATION - S. CUNNINGHAM RD	CT0209-A - CT0211-A	ST1053
74	GRADE SEPARATION - S. BURCHELL AVE	CT0212-A - CT0214-A	ST1054
75	GRADE SEPARATION - LE GRAND RD	CT0250-A - CT0252-A	ST1055
76	GRADE SEPARATION - S. FRESNO RD	CT0253-A - CT0255-A	ST1056
77	GRADE SEPARATION - S. CUNNINGHAM RD	CT0256-A - CT0258-A	ST1057
78	GRADE SEPARATION - PLAINSBURG RD	CT0259-A - CT0261-A	ST1058
79	GRADE SEPARATION - S. SANTA FE AVE	CT0300-A - CT0302-A	ST1059
80	GRADE SEPARATION - PLAINSBURG RD	CT0303-A - CT0305-A	ST1060
81	GRADE SEPARATION - S. ARBOLEDA RD	CT0306-A - CT0308-A	ST1061
82	GRADE SEPARATION - S. ORCHARD DR	CT0309-A - CT0311-A	ST1062
83	LOCAL ROAD - WHITE ROCK	CR4200-A - CR4201-A	
84	LOCAL ROAD - BURCHELL	CR4202-A	
85	LOCAL ROAD - FRESNO	CR4250-A	
86	LOCAL ROAD - SANTA FE	CR4300-A - CR4301-A	



LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- (X) - INDICATES CALTRANS FACILITIES MODIFICATION
- (X) - INDICATES LOCAL ROAD RELOCATION

FOR ROADWAY STRUCTURES
SEE STRUCTURAL
INDEX MAPS



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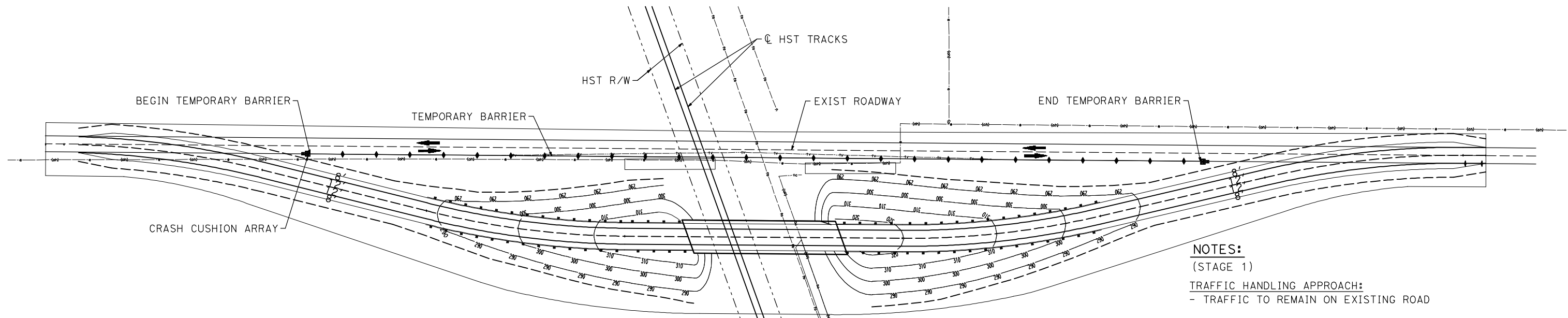


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 24 WYE
ALTERNATIVES NO. 1, NO. 2, & NO. 3

INDEX MAP
SHEET 4 OF 4

CONTRACT NO.	HSR06-007
DRAWING NO.	B0120-A
SCALE	NO SCALE
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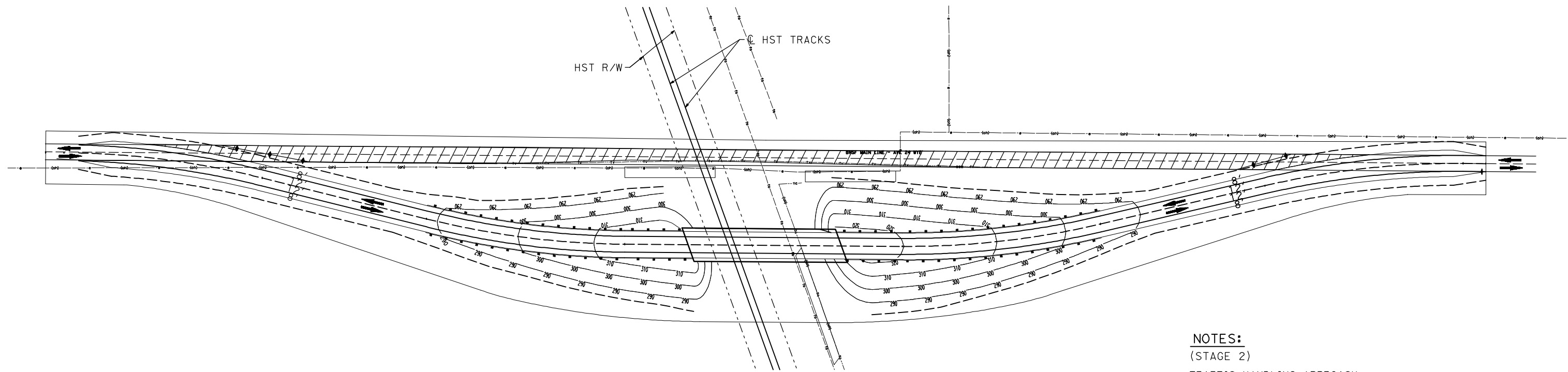
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STAGE CONSTRUCTION (STAGE 1)

NOTES:
 (STAGE 1)
TRAFFIC HANDLING APPROACH:
 - TRAFFIC TO REMAIN ON EXISTING ROAD

STAGE CONSTRUCTION ACTIVITIES:
 - CONSTRUCT NEW GRADE SEPARATION EMBANKMENT
 - CONSTRUCT NEW GRADE SEPARATION STRUCTURE
 - CONSTRUCT DRAINAGE FACILITY


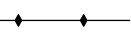

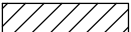


STAGE CONSTRUCTION (STAGE 2)

NOTES:
 (STAGE 2)
TRAFFIC HANDLING APPROACH:
 - SHIFT TRAFFIC TO NEW GRADE SEPARATION FACILITY

STAGE CONSTRUCTION ACTIVITIES:
 - CONSTRUCT REALIGNED ROAD CONFORMS
 - COMPLETE DRAINAGE FACILITIES
 - REMOVE BASE AND SURFACING OF EXIST ROAD

LEGEND:

-  CRASH CUSHION ARRAY (ARRAY TS 11)
-  TEMPORARY BARRIER (TYPE K)
-  DIRECTION OF TRAVEL
-  REMOVE BASE AND SURFACING (EXIST ROAD)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
SW
 DRAWN BY
SW/FD
 CHECKED BY
JZ
 IN CHARGE
AB
 DATE
04/29/2011

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**NOT FOR
 CONSTRUCTION**

AECOM
 Technical Services, Inc.
 2020 L Street, Suite 300
 Sacramento, CA 95811

CH2MHILL



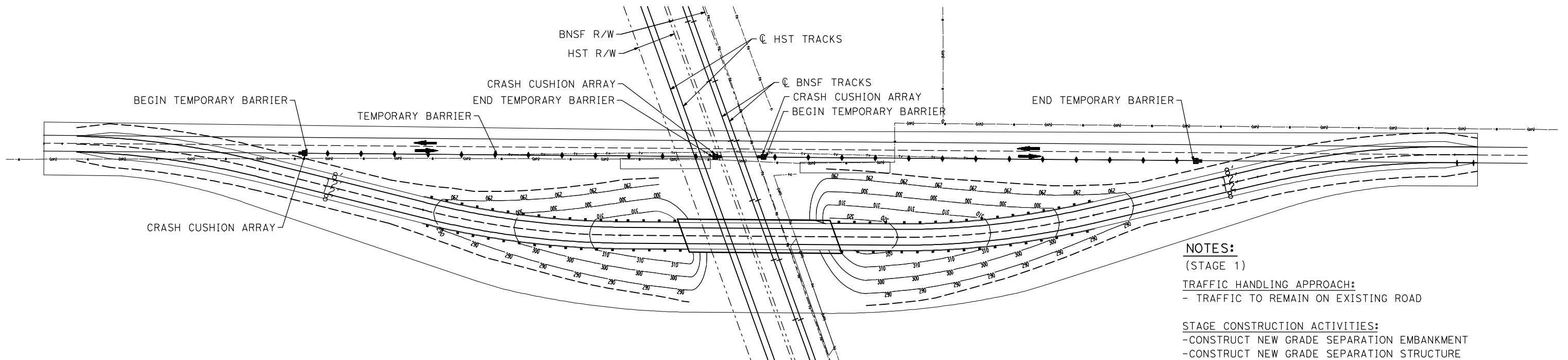
CALIFORNIA
 HIGH-SPEED RAIL AUTHORITY

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

BNSF - AVE 24 WYE
 GENERAL STAGE CONSTRUCTION &
 TRAFFIC HANDLING APPROACH
 SHEET 1 OF 2

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT5000-A
 SCALE
NO SCALE
 SHEET NO.
OF

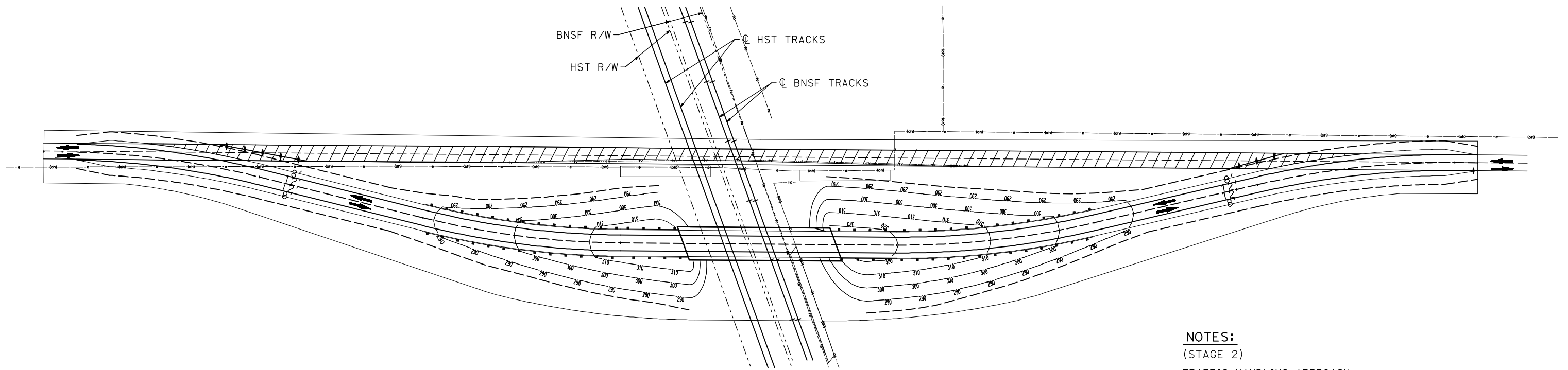
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STAGE CONSTRUCTION (STAGE 1)

NOTES:
 (STAGE 1)
TRAFFIC HANDLING APPROACH:
 - TRAFFIC TO REMAIN ON EXISTING ROAD




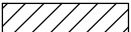
STAGE CONSTRUCTION ACTIVITIES:
 - CONSTRUCT NEW GRADE SEPARATION EMBANKMENT
 - CONSTRUCT NEW GRADE SEPARATION STRUCTURE
 - CONSTRUCT DRAINAGE FACILITY



STAGE CONSTRUCTION (STAGE 2)

NOTES:
 (STAGE 2)
TRAFFIC HANDLING APPROACH:
 - SHIFT TRAFFIC TO NEW GRADE SEPARATION FACILITY

STAGE CONSTRUCTION ACTIVITIES:
 - CONSTRUCT REALIGNED ROAD CONFORMS
 - COMPLETE DRAINAGE FACILITIES
 - REMOVE SURFACE AND BASE OF EXIST ROAD

- LEGEND:**
-  CRASH CUSHION ARRAY (ARRAY TS11)
 -  TEMPORARY BARRIER (TYPE K)
 -  DIRECTION OF TRAVEL
 -  REMOVE BASE AND SURFACING (EXIST ROAD)

REV	DATE	BY	CHK	APP	DESCRIPTION

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JZ
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AB
 DATE
04/29/2011

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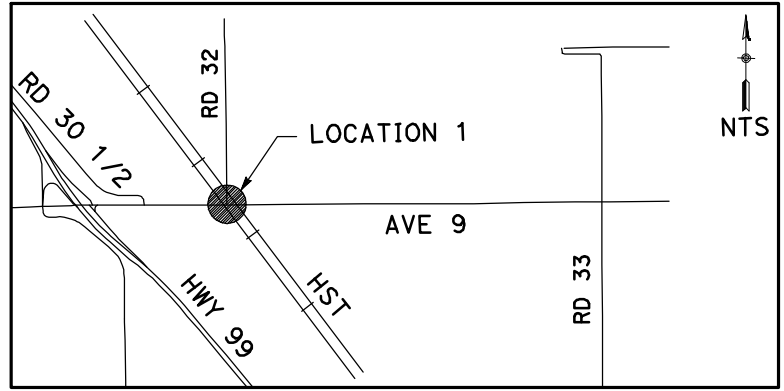
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

BNSF - AVE 24 WYE
 GENERAL STAGE CONSTRUCTION &
 TRAFFIC HANDLING APPROACH
 SHEET 2 OF 2

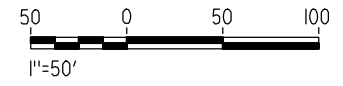
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HSR06-007
 DRAWING NO.
CT5000-B
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OF

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CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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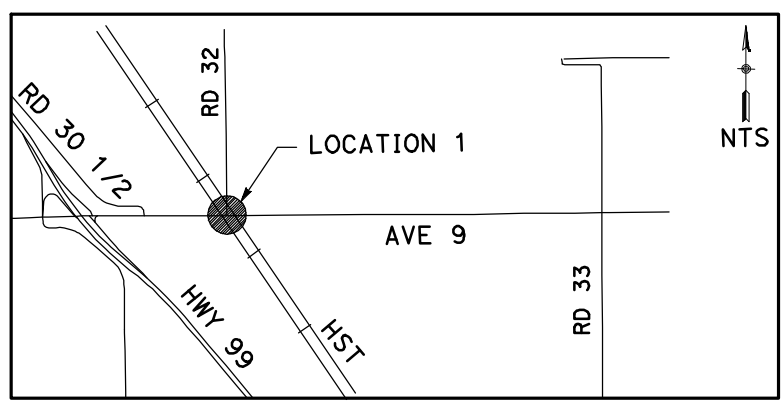
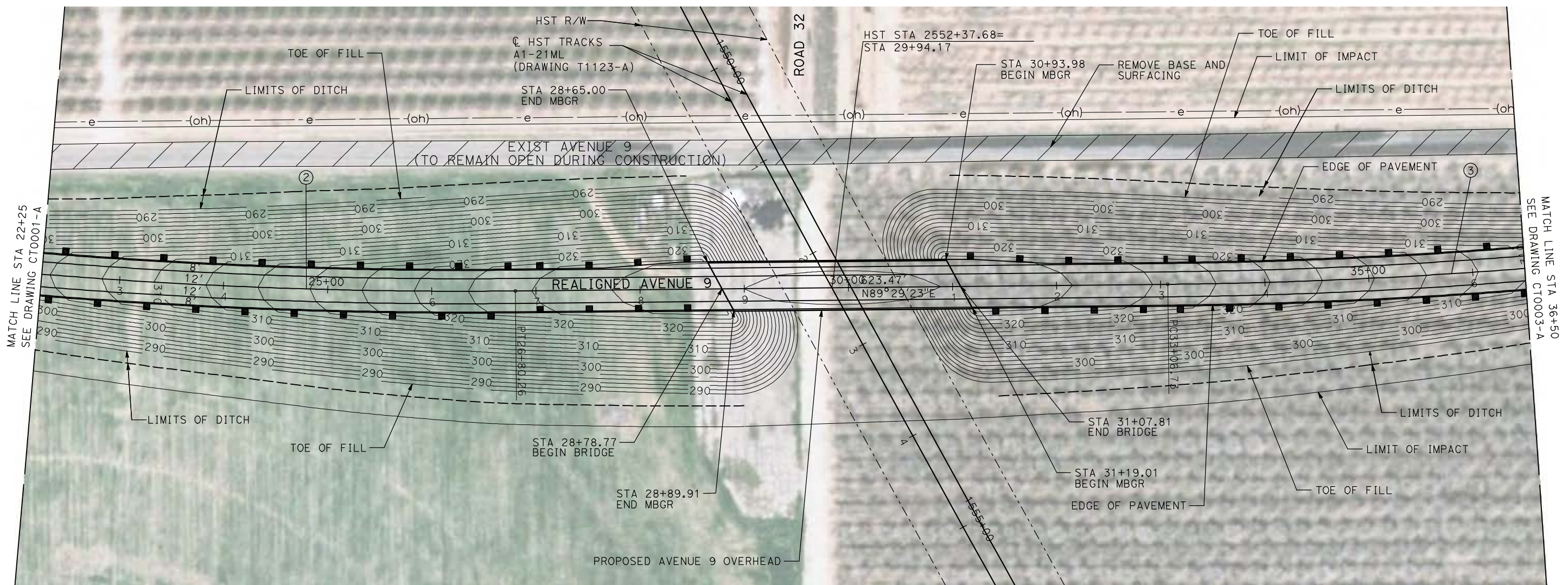


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 1 OF 3

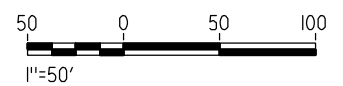
CONTRACT NO.
HST06-007
DRAWING NO.
CT0001-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:12:27 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0002-A.dgn

CURVE DATA					
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③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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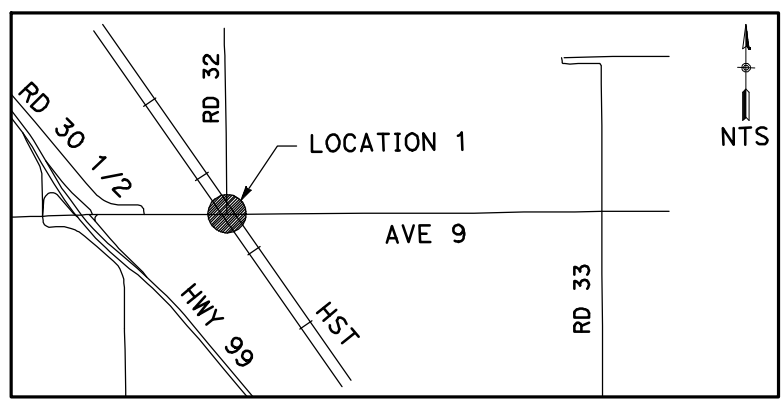


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 2 OF 3

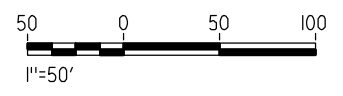
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HST06-007
DRAWING NO.
CT0002-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
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④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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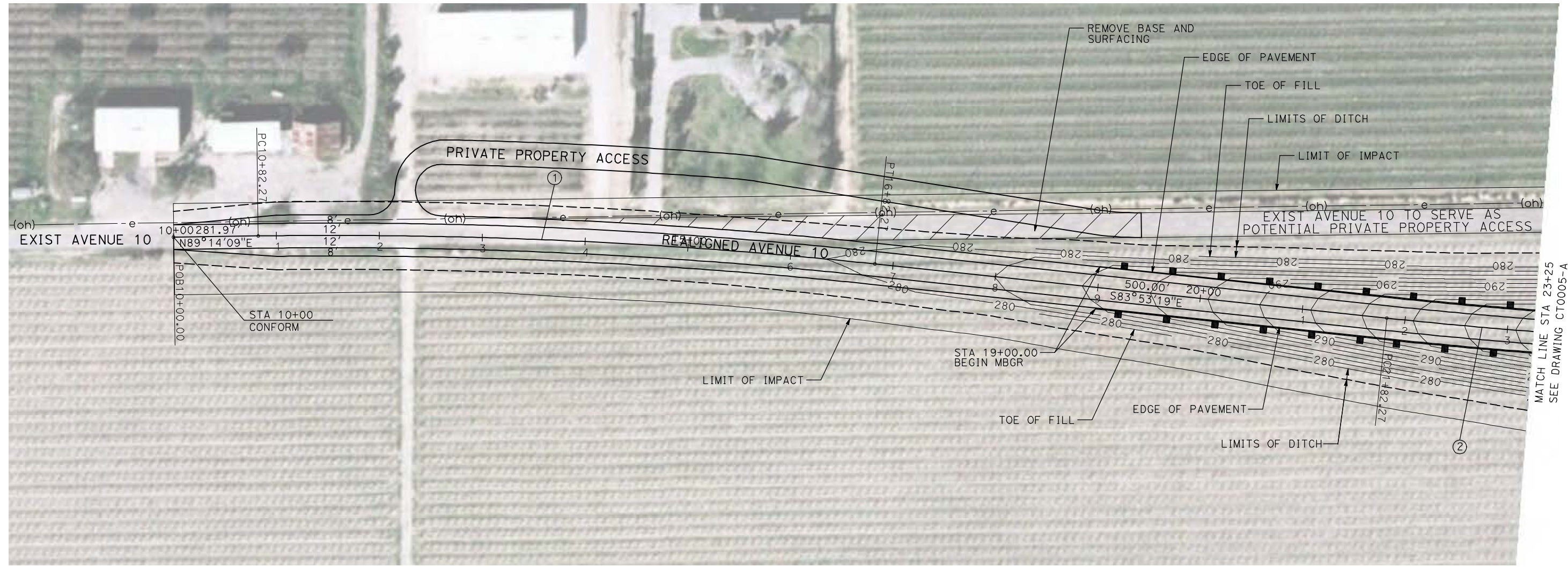
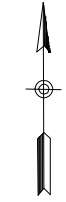


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 3 OF 3

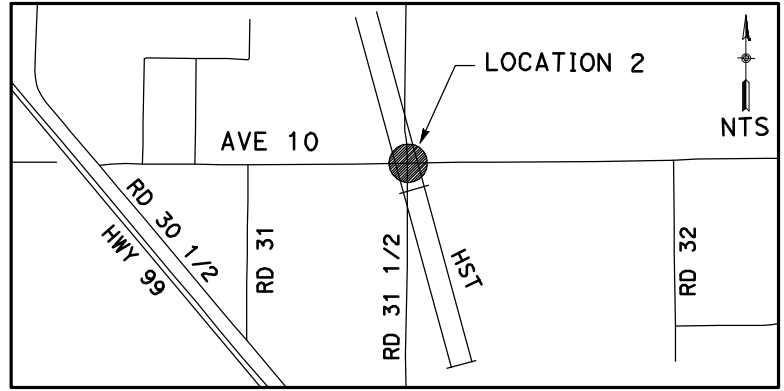
CONTRACT NO.
HST06-007
DRAWING NO.
CT0003-A
SCALE
AS SHOWN
SHEET NO.
OF

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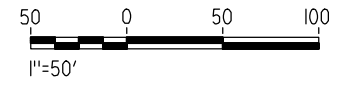
CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



MATCH LINE STA 23+25
SEE DRAWING CT0005-A



NOTE:
1. FOR PROFILES, SEE DRAWINGS CT1003-A THROUGH CT1005-A.



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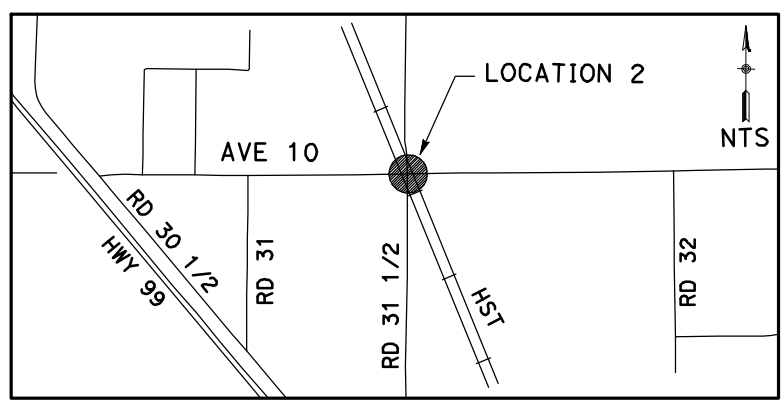
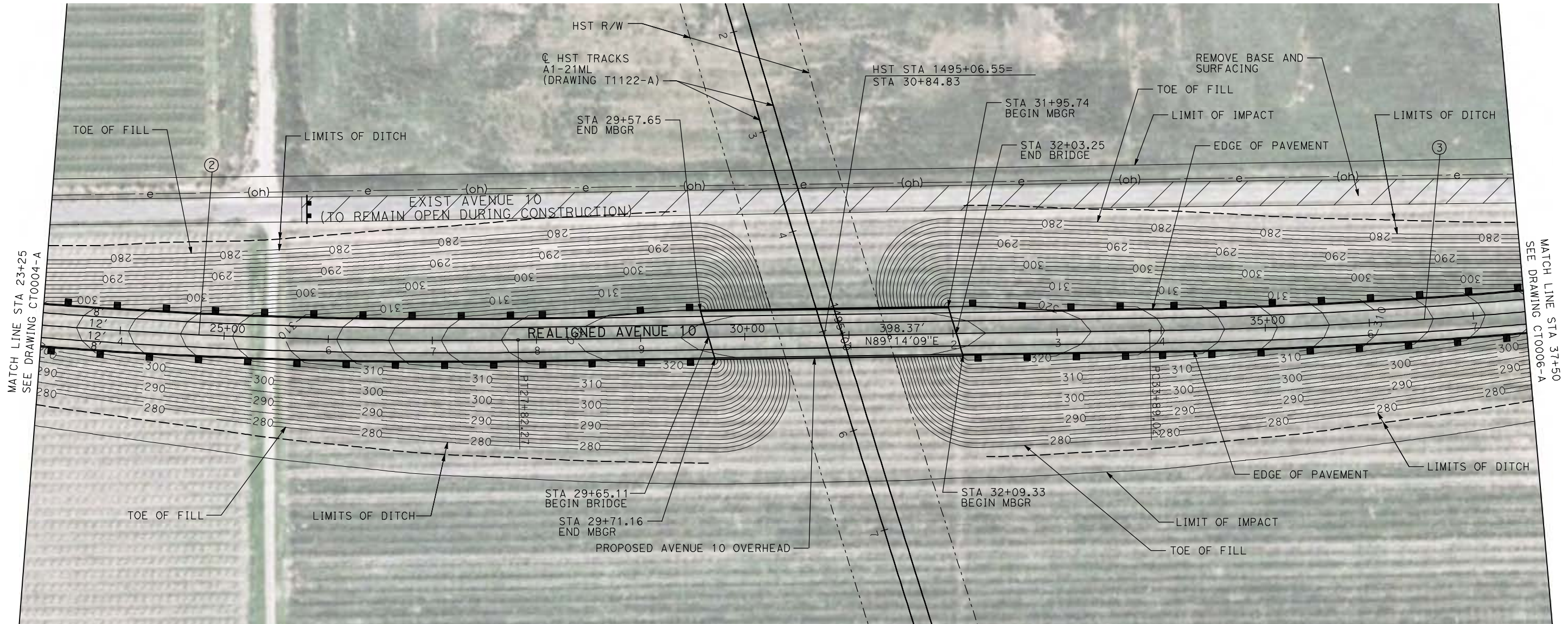
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0004-A
SCALE
AS SHOWN
SHEET NO.
OF

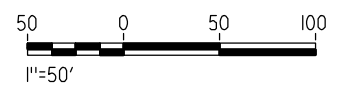
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CURVE DATA					
NO.	R	Δ	T	L	V
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③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1003-A THROUGH CT1005-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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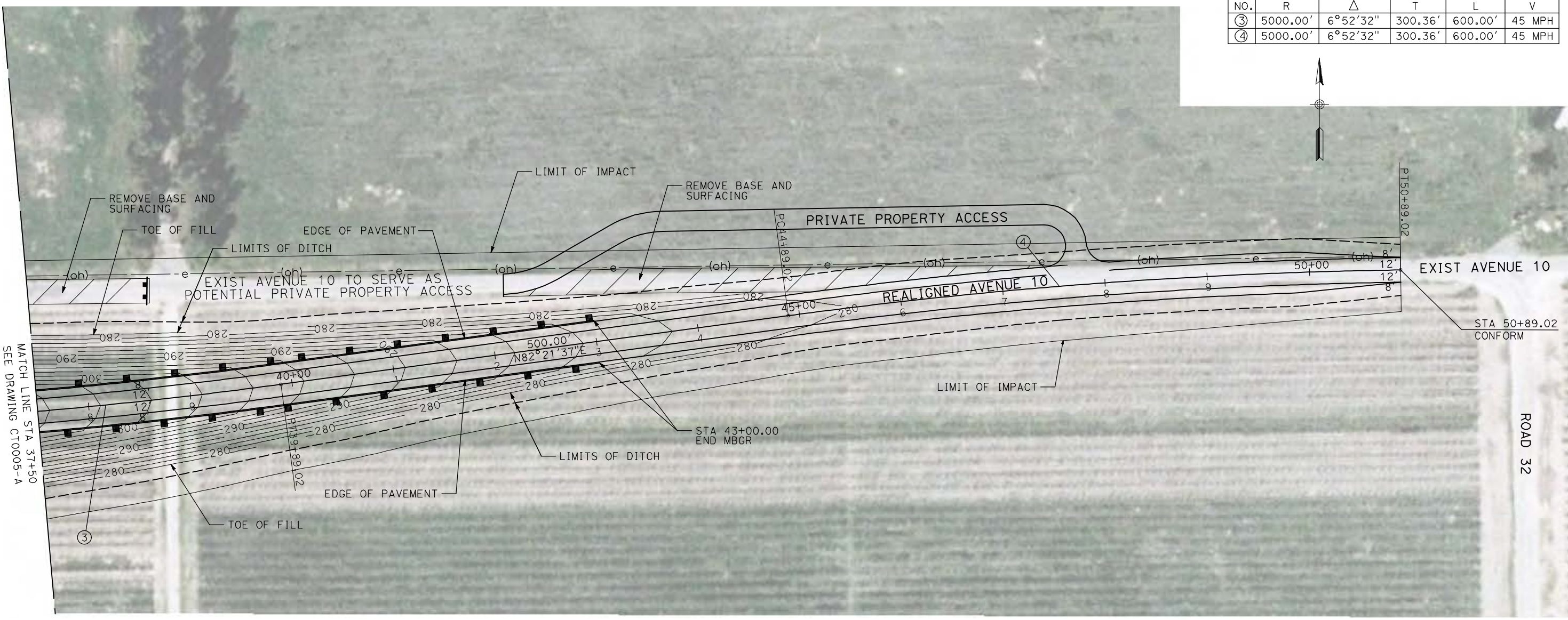


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 2 OF 3

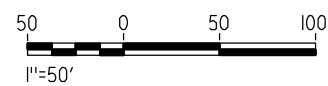
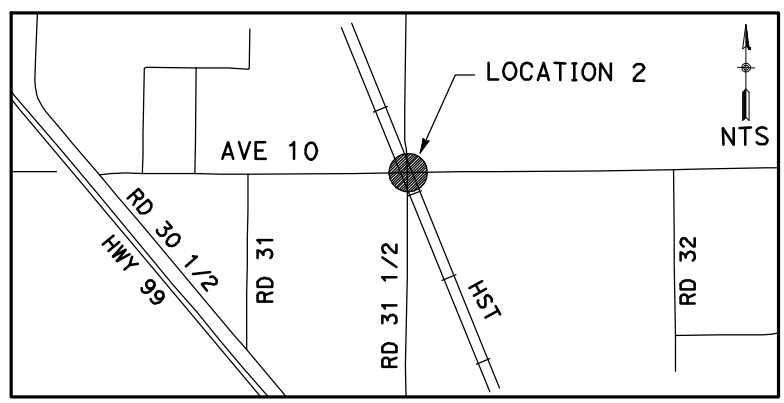
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HST06-007
DRAWING NO.
CT0005-A
SCALE
AS SHOWN
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OF

4/29/2011 2:12:59 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-0006-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1003-A THROUGH CT1005-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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04/29/2011

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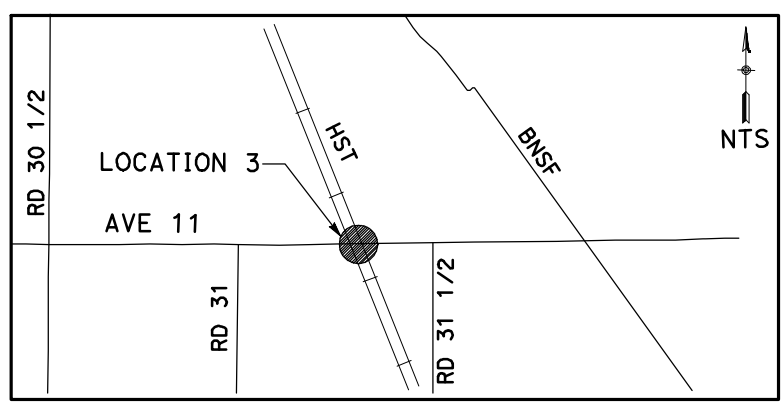
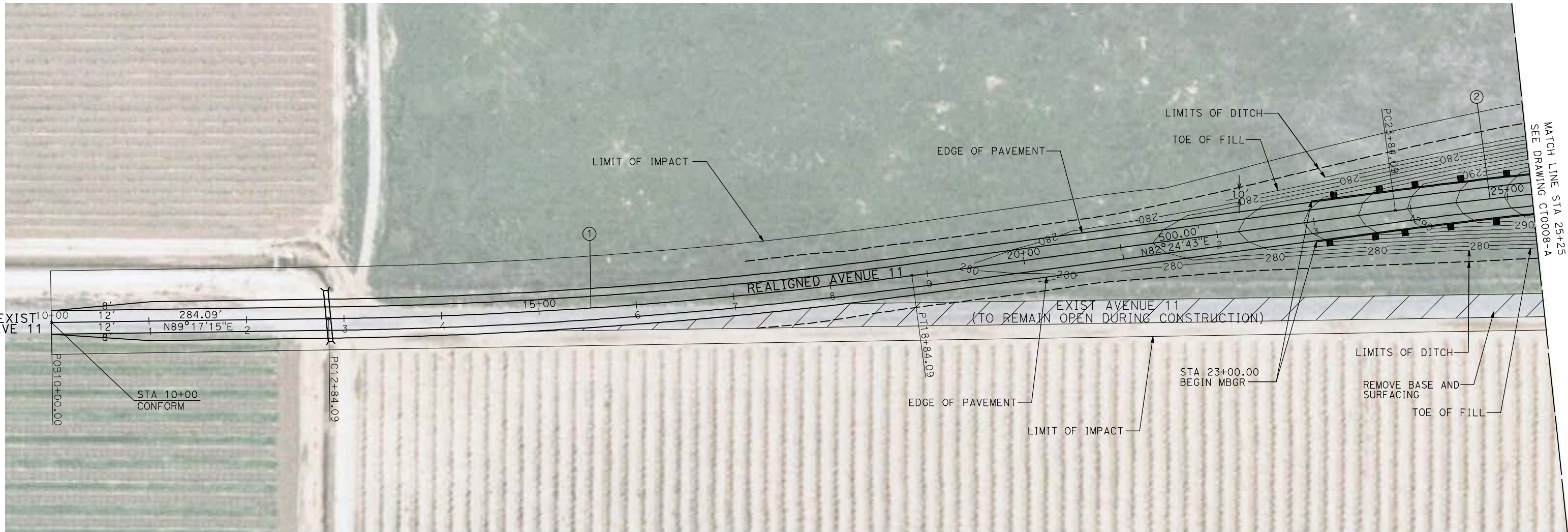
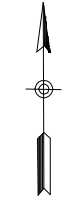


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 10
 LAYOUT
 SHEET 3 OF 3

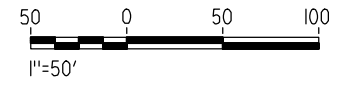
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AS SHOWN
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4/29/2011 2:13:06 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0007-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
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②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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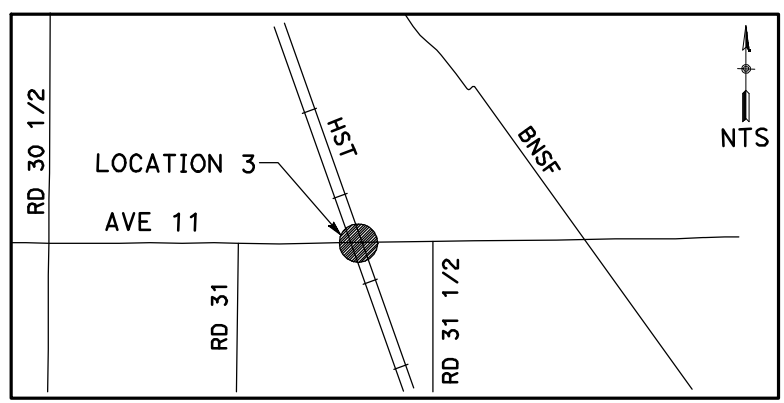
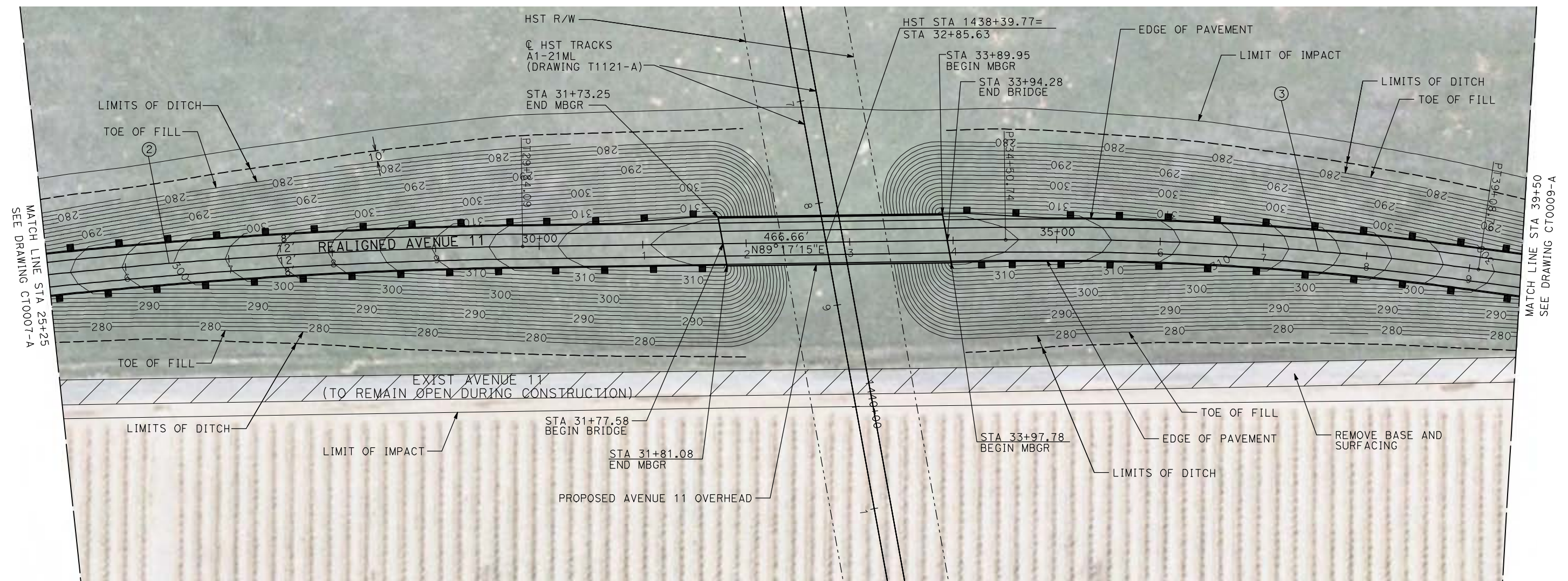


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 11
LAYOUT
SHEET 1 OF 3

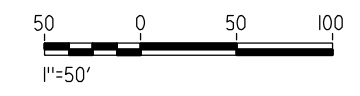
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DRAWING NO.
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SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
③	3000.00'	8°44'53"	229.47'	458.05'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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H. PHAN
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

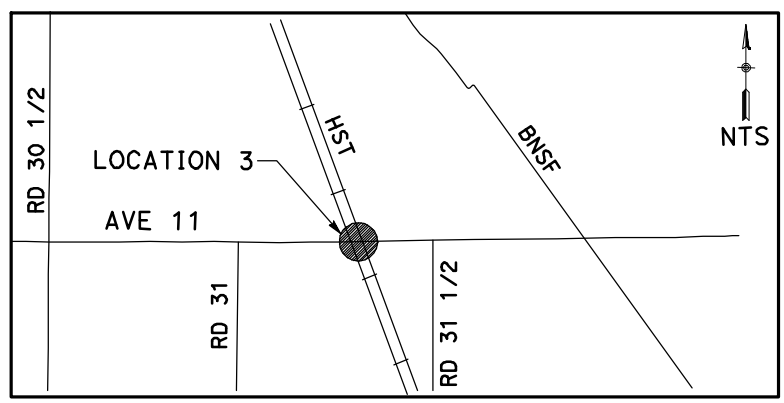
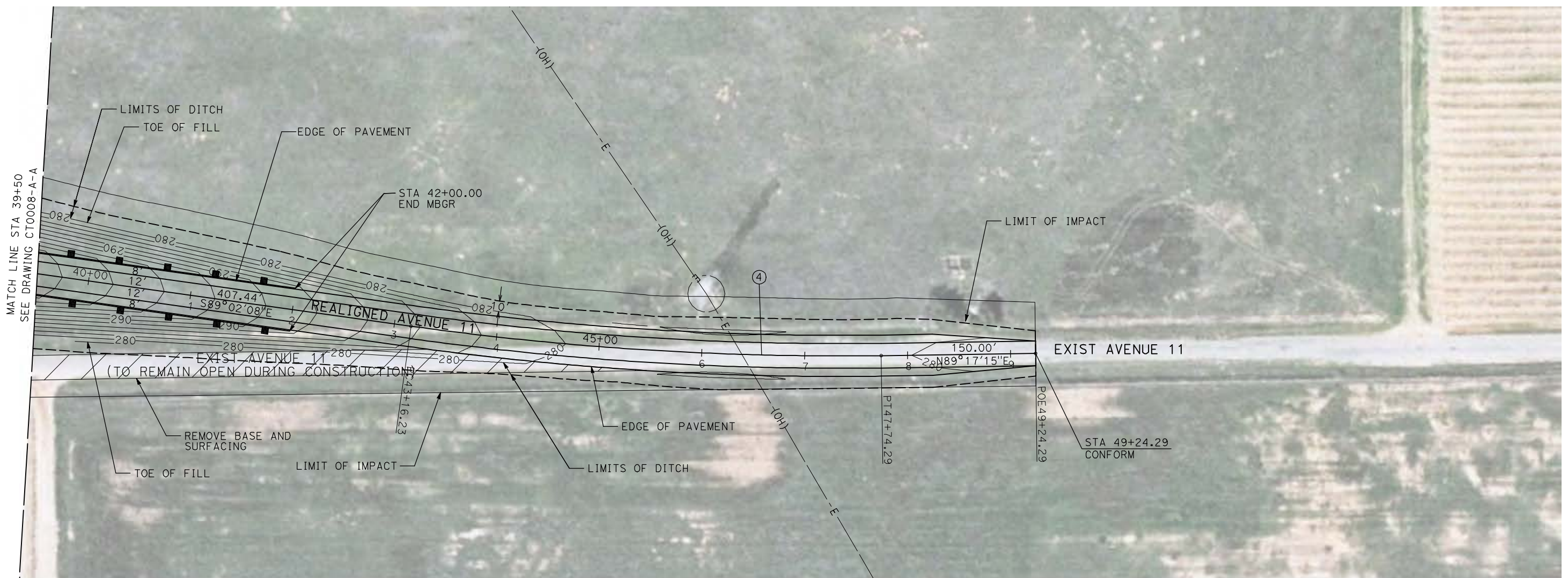
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 11
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0008-A
SCALE
AS SHOWN
SHEET NO.
OF

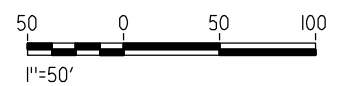
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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	8°44'53"	229.47'	458.05'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

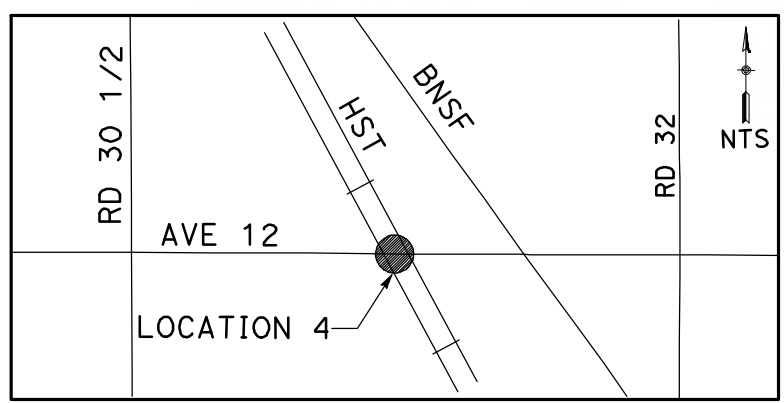
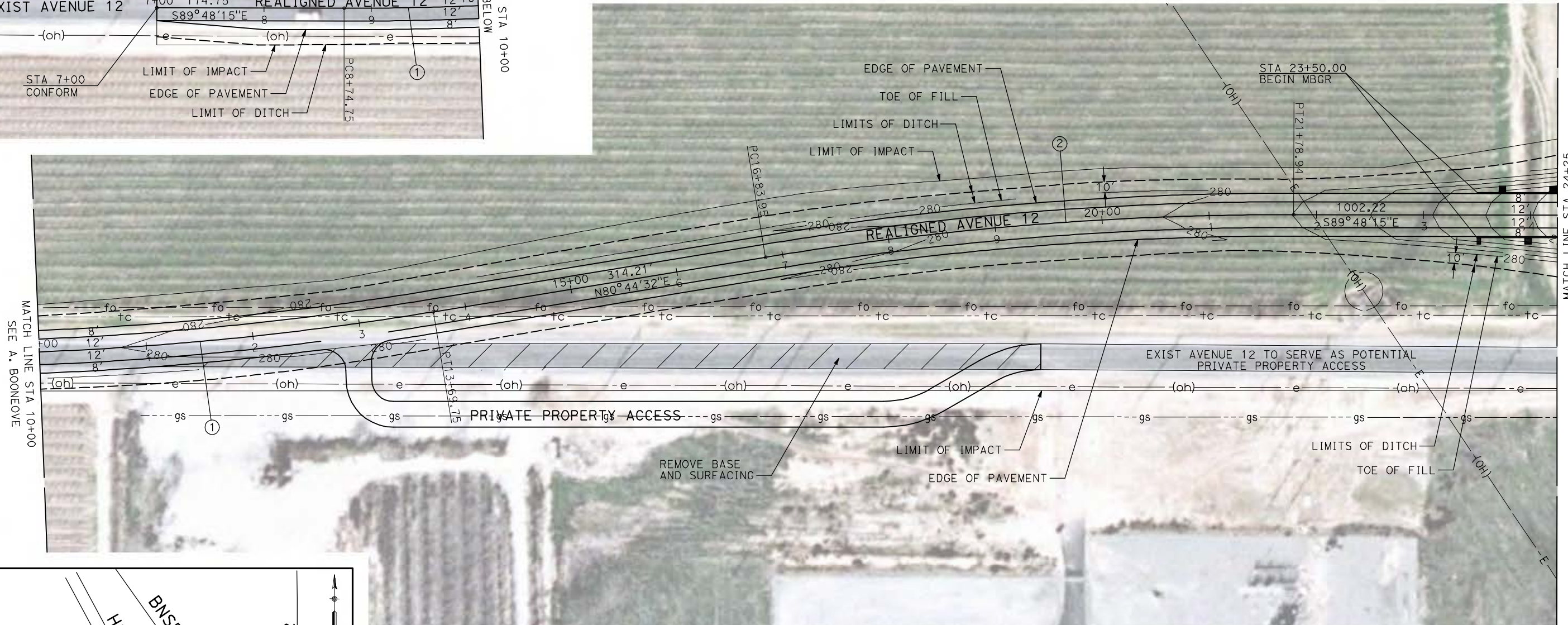
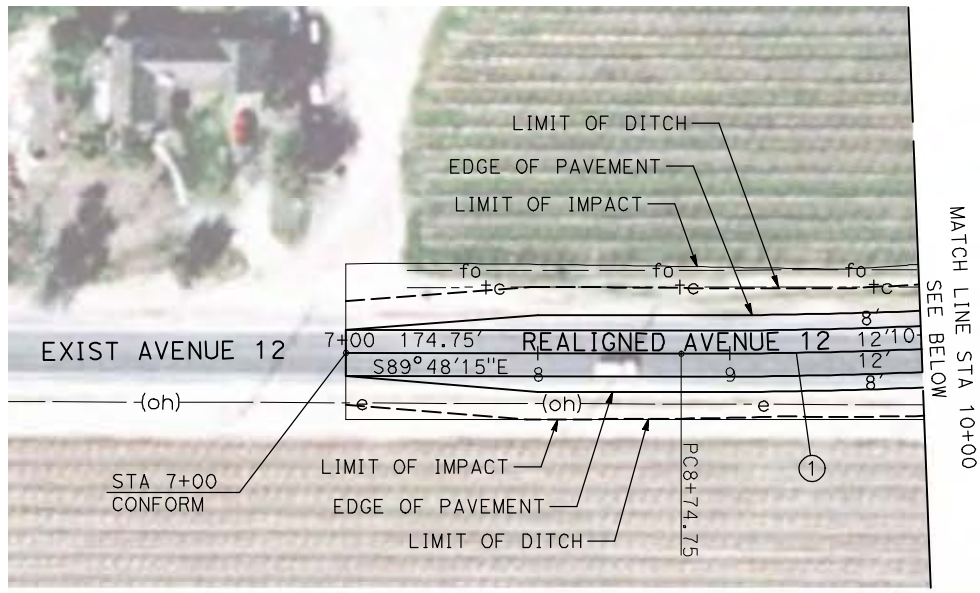
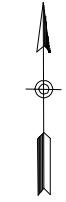


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 11
LAYOUT
SHEET 3 OF 3

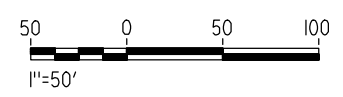
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OF

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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°27'13"	248.06'	494.99'	45 MPH
②	3000.00'	9°27'13"	248.06'	494.99'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1009-A THROUGH CT1011-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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J. ZANDIAN
IN CHARGE
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DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



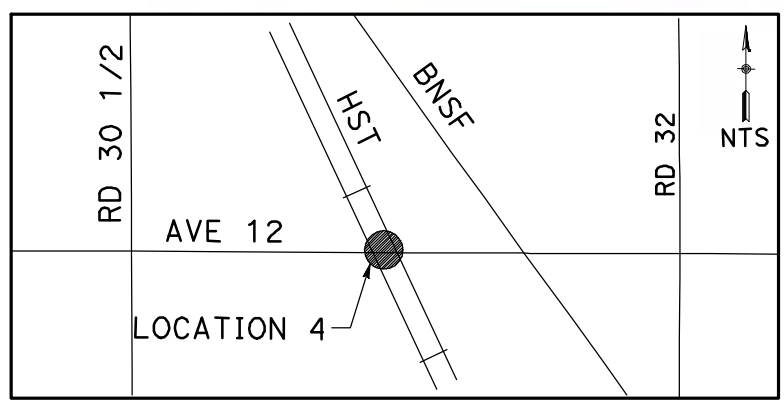
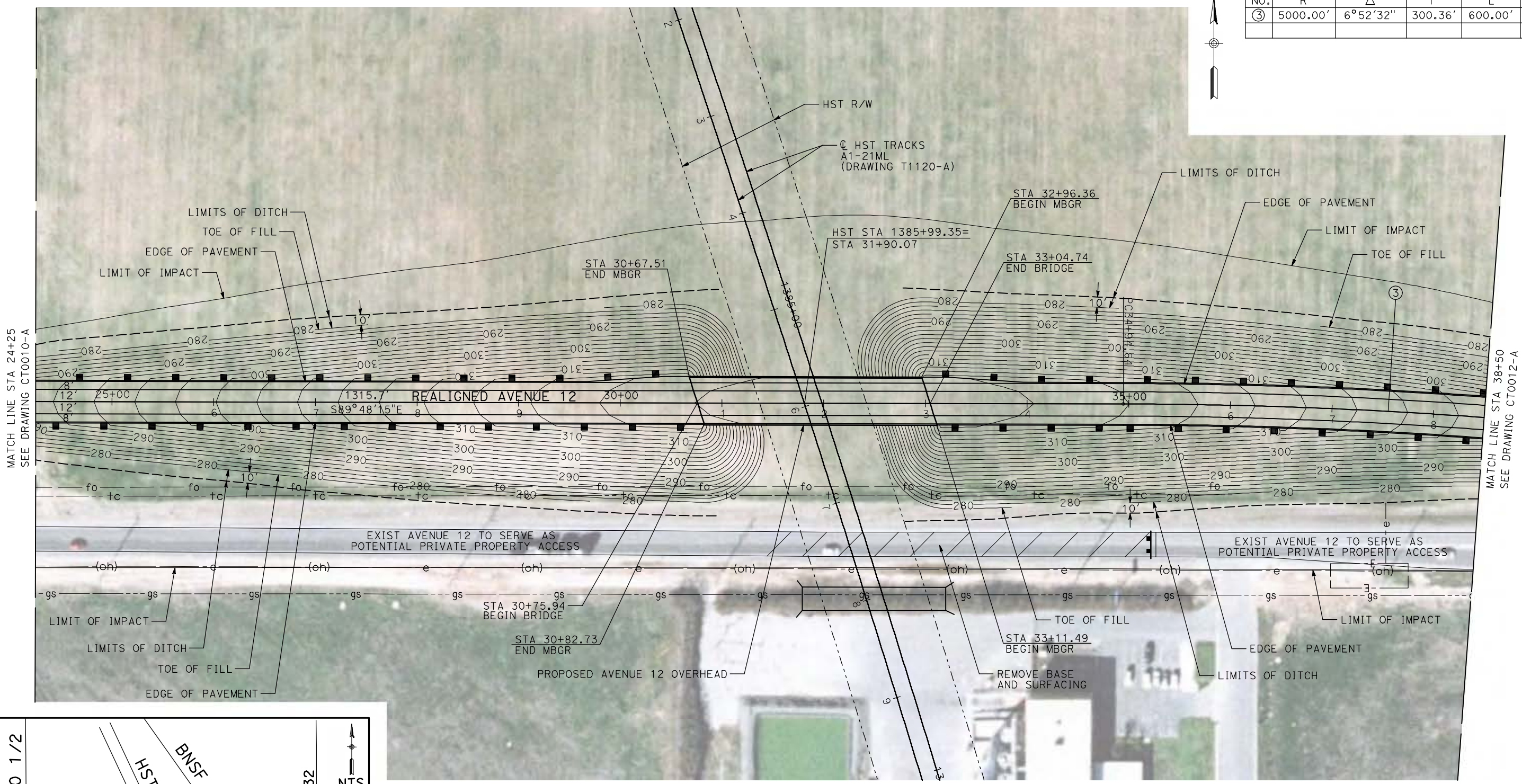
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 1 OF 3

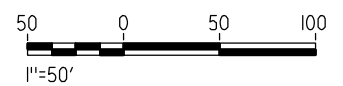
CONTRACT NO.
HST06-007
DRAWING NO.
CT0010-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:13:36 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0011-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1009-A THROUGH CT1011-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
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CONSTRUCTION

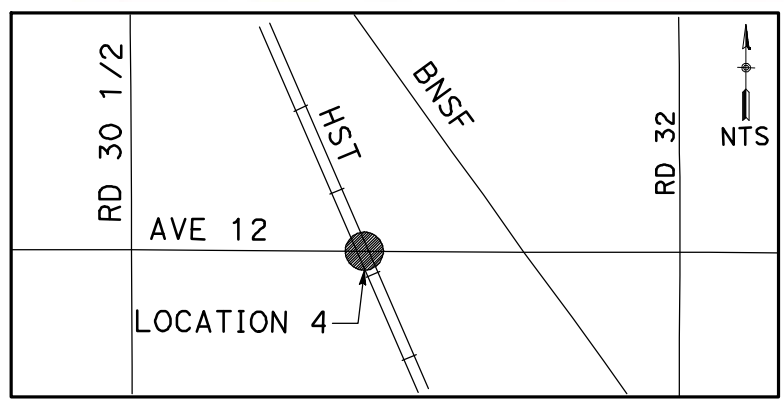
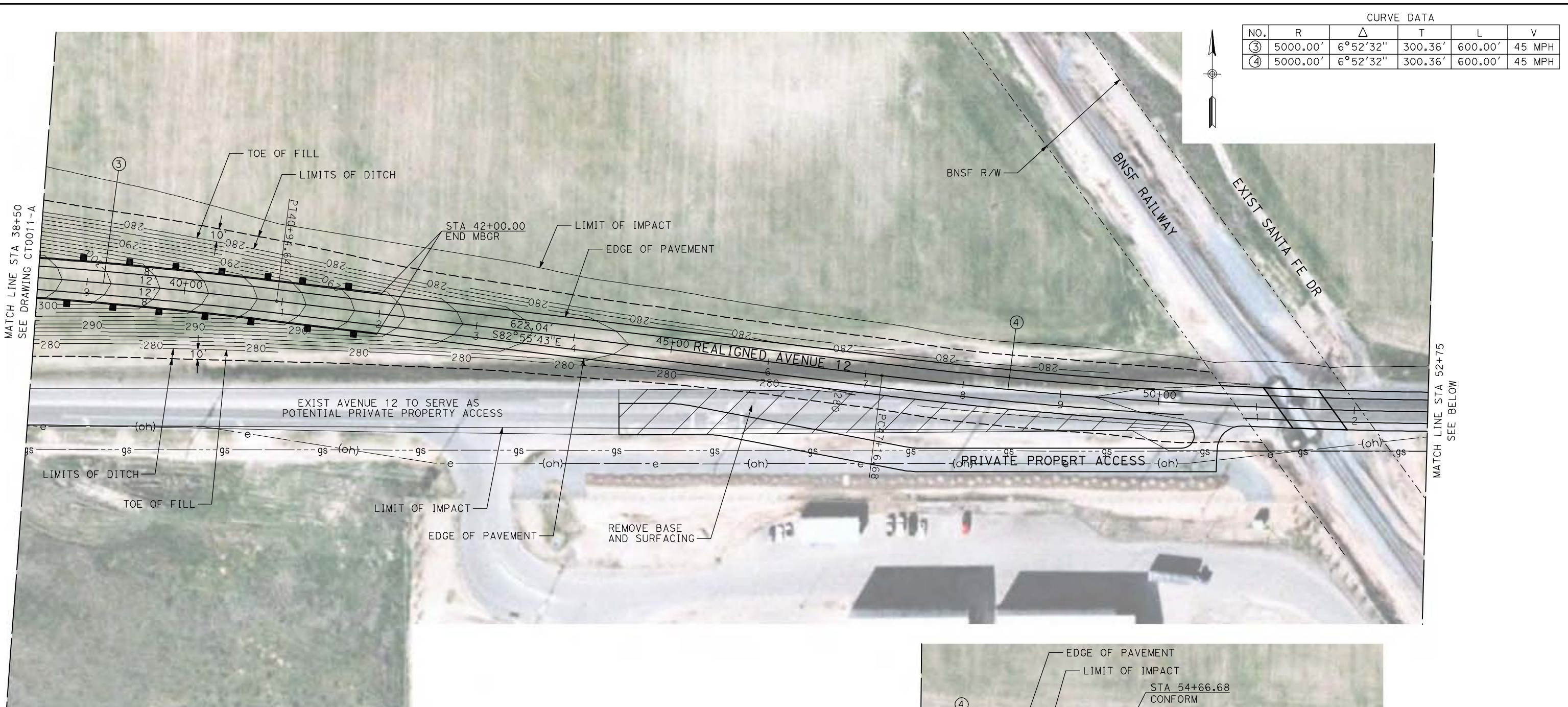


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

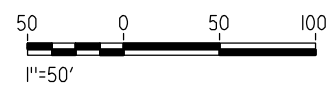
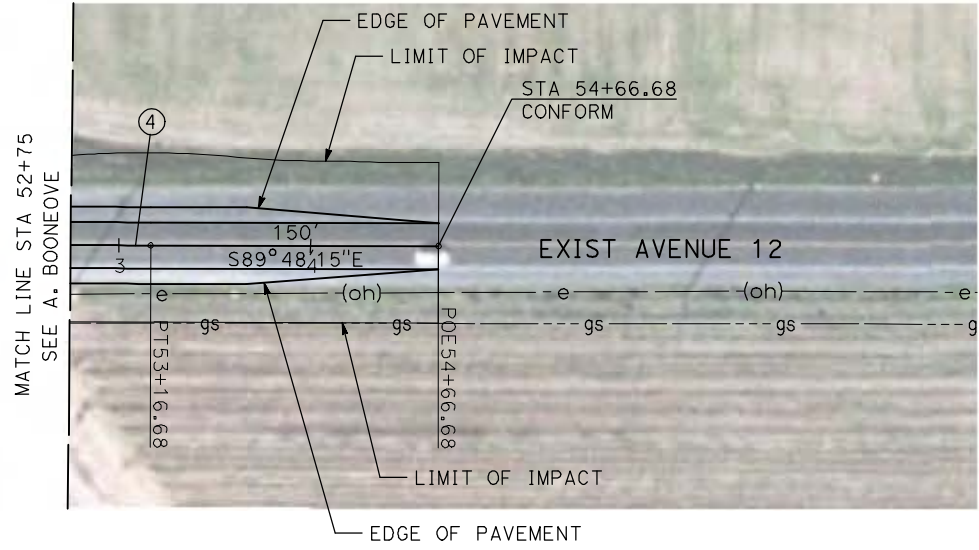
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0011-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:13:45 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0012-A.dgn



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1009-A THROUGH CT1011-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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J. ZANDIAN
IN CHARGE
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DATE
04/29/2011

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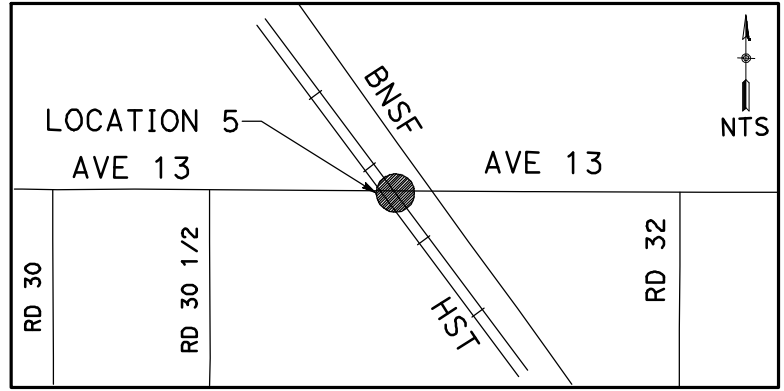
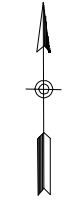


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 3 OF 3

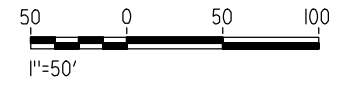
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HST06-007
DRAWING NO.
CT0012-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:13:52 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0013-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
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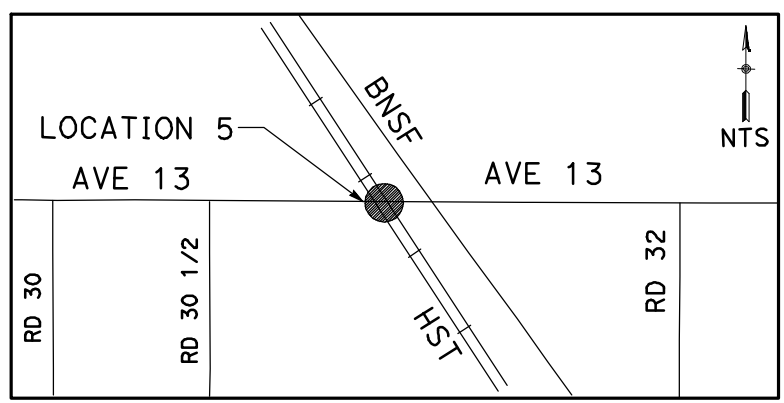
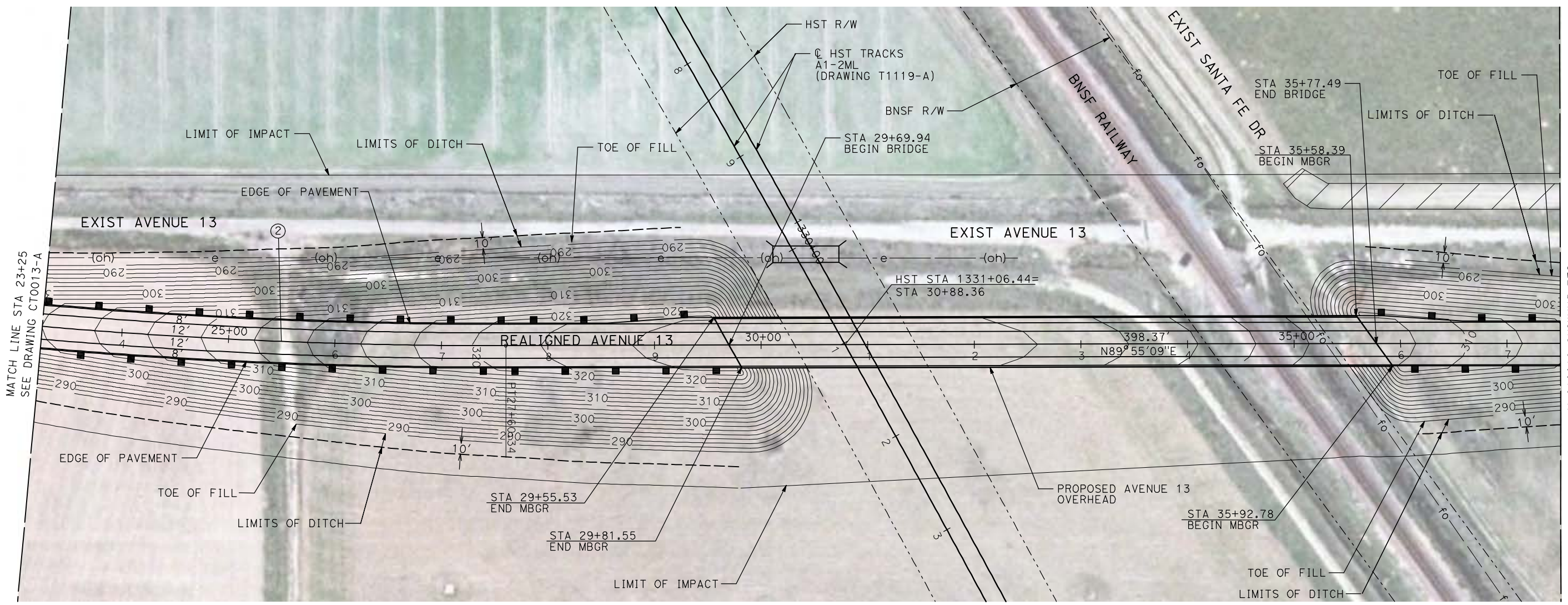
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 1 OF 4

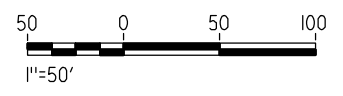
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HST06-007
DRAWING NO.
CT0013-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:13:59 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0014-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
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04/29/2011

RECORD SET
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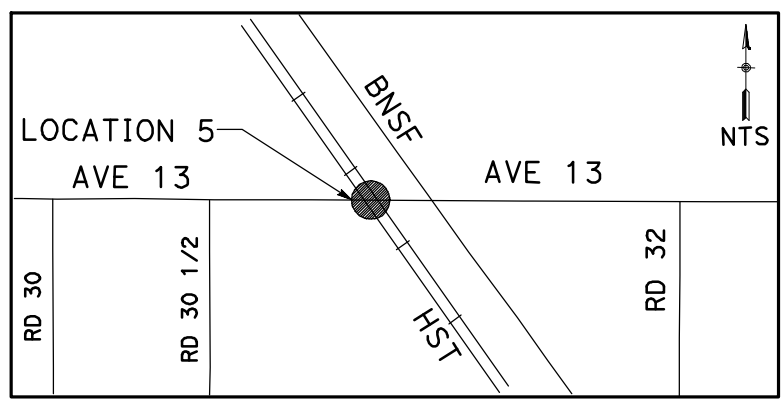
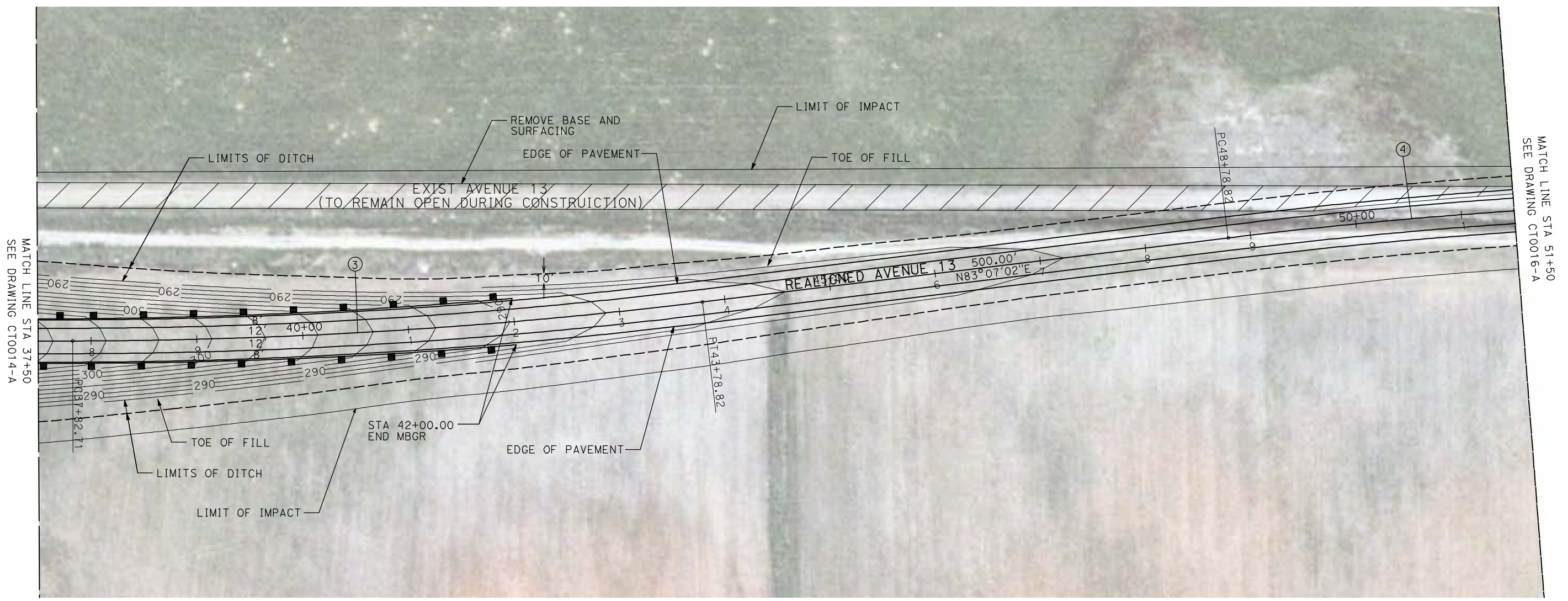


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 13
 LAYOUT
 SHEET 2 OF 4

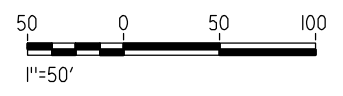
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0014-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:14:07 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0015-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

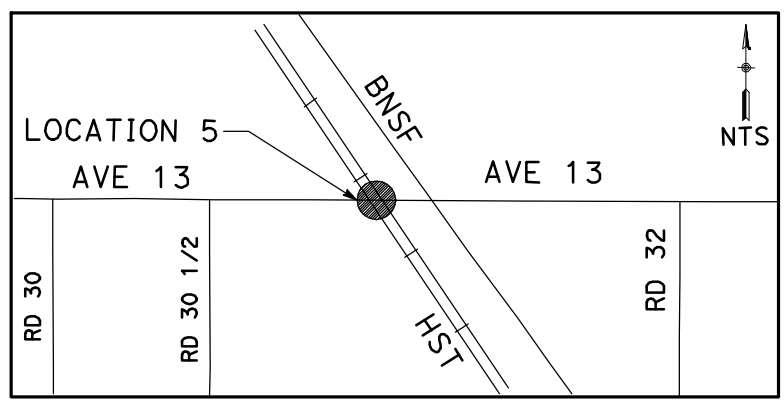
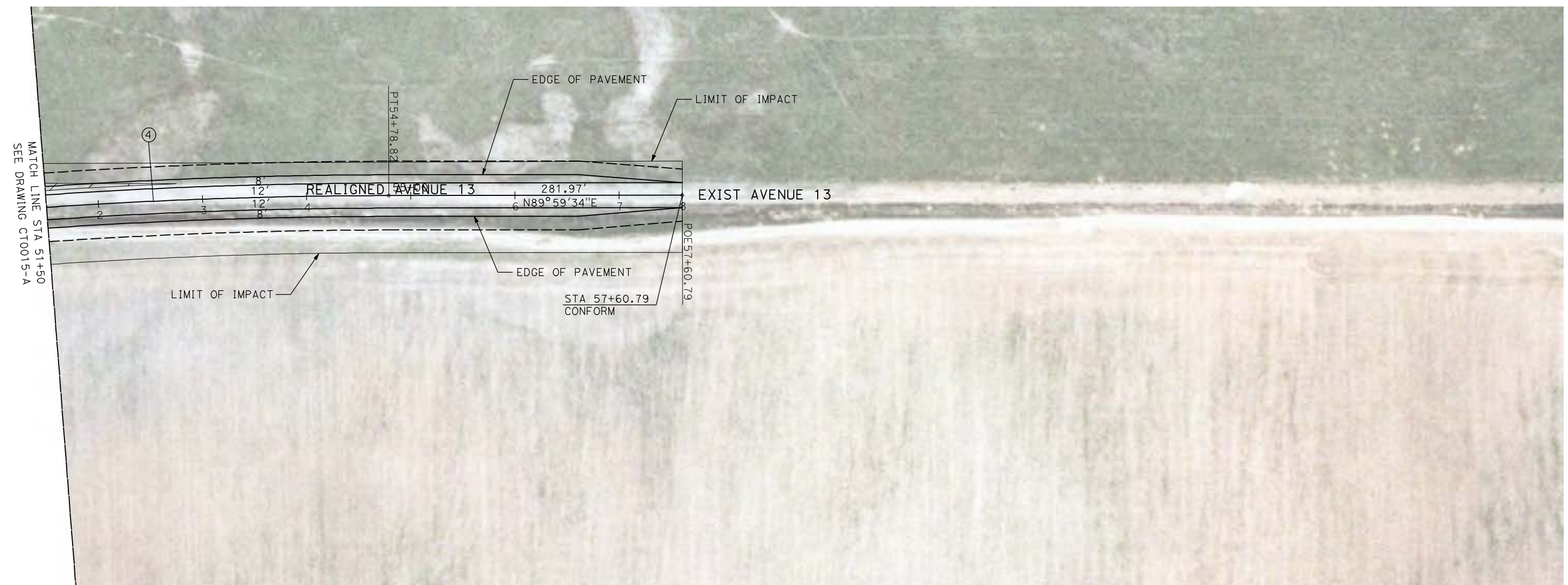
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 3 OF 4

CONTRACT NO.
HST06-007
DRAWING NO.
CT0015-A
SCALE
AS SHOWN
SHEET NO.
OF

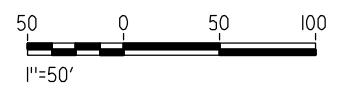
4/29/2011 2:14:13 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0016-A.dgn



CURVE DATA					
NO.	R	Δ	T	L	V
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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CHECKED BY
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04/29/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

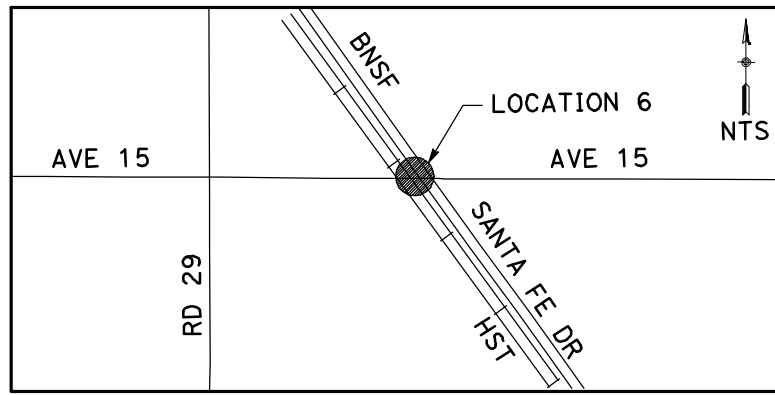
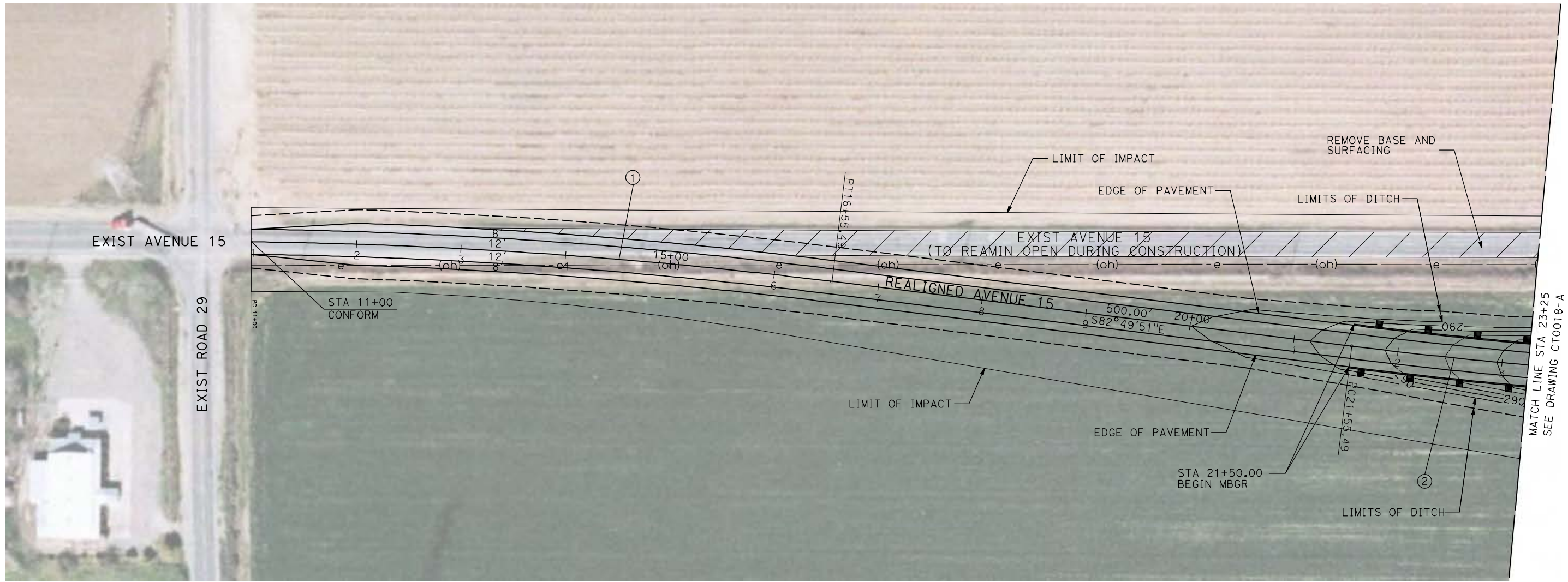
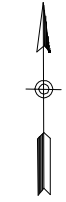
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 4 OF 4

CONTRACT NO.
HST06-007
DRAWING NO.
CT0016-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:14:20 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0017-A.dgn

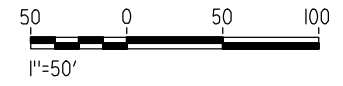
CURVE DATA

NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1015-A THROUGH CT1017-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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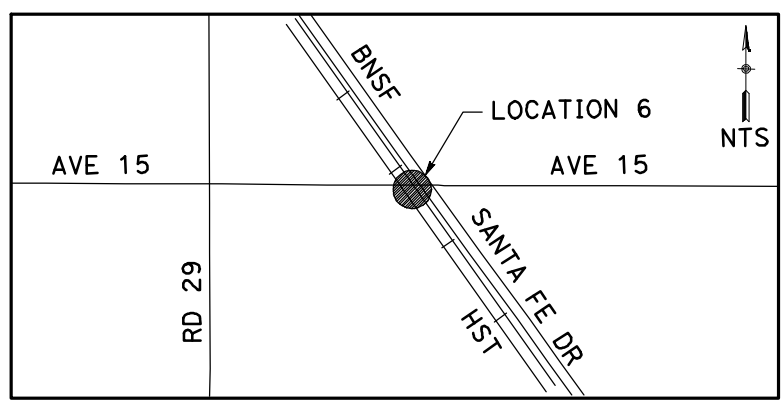
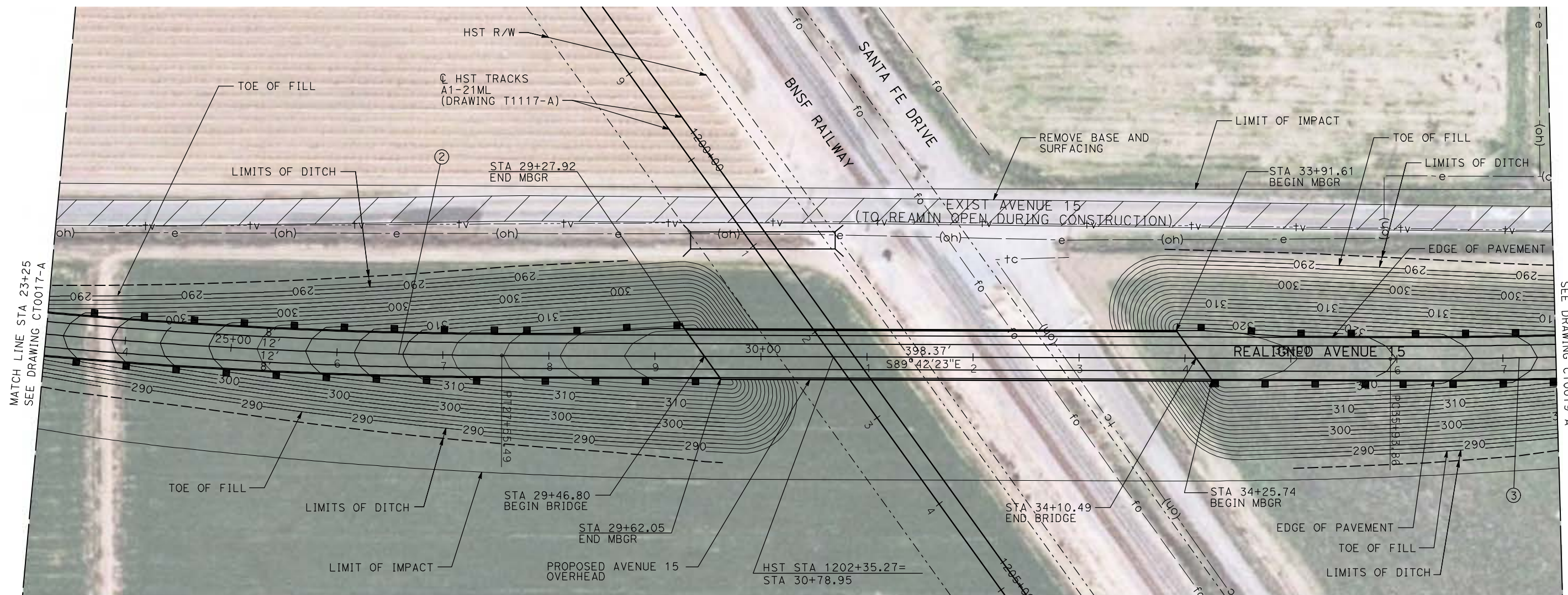
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 15
LAYOUT
SHEET 1 OF 3

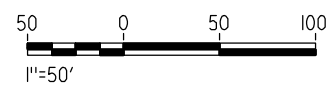
CONTRACT NO.
HST06-007
DRAWING NO.
CT0017-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:14:26 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0018-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1015-A THROUGH CT1017-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
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04/29/2011

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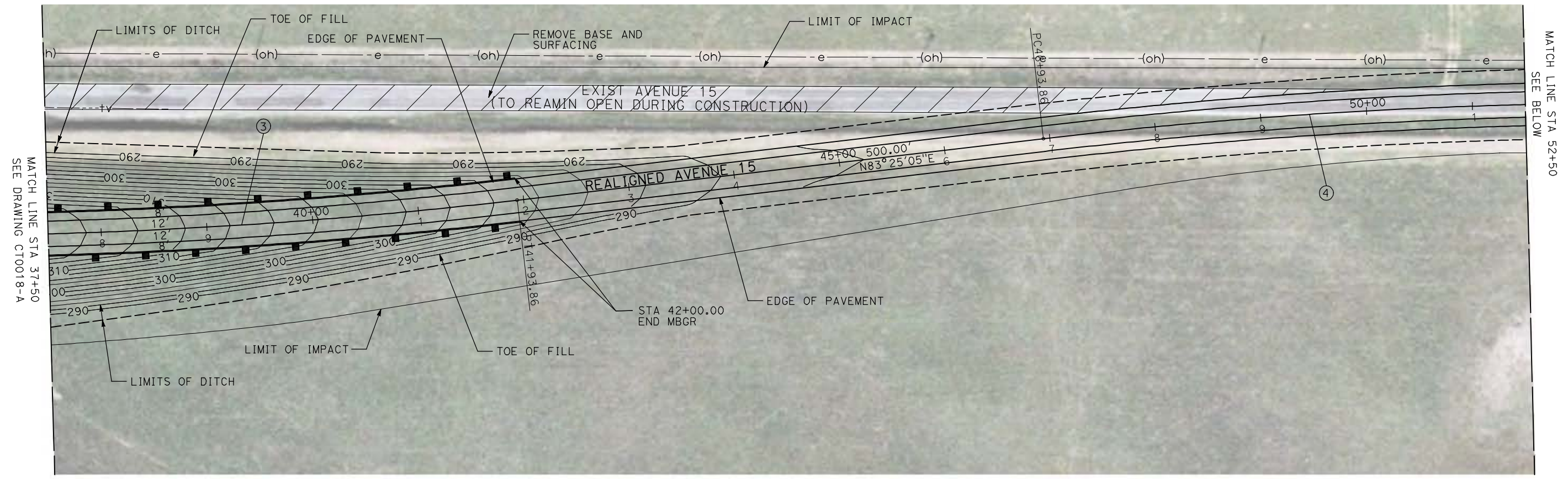
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

GRADE SEPARATION - AVENUE 15
 LAYOUT
 SHEET 2 OF 3

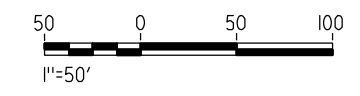
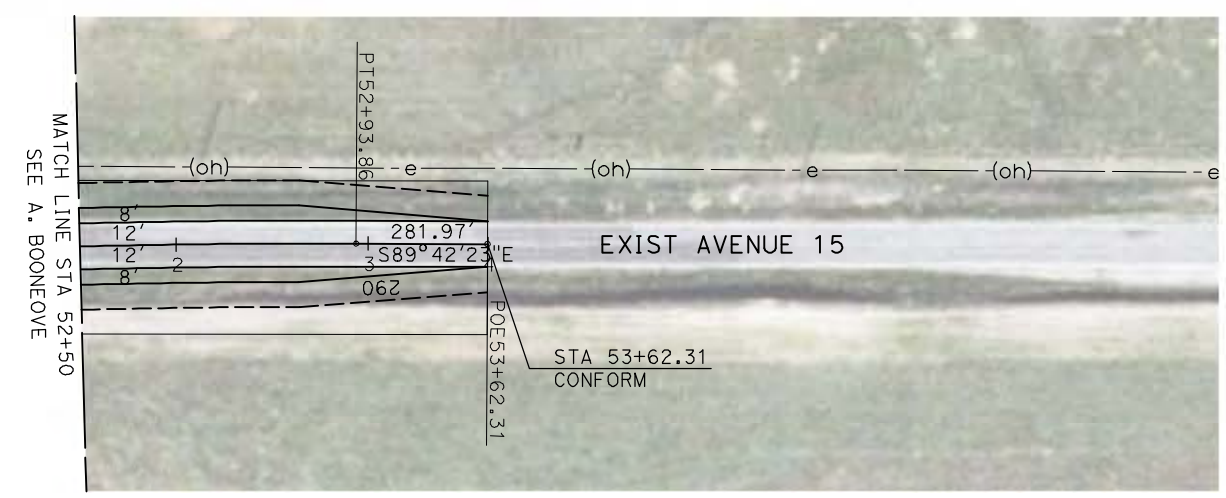
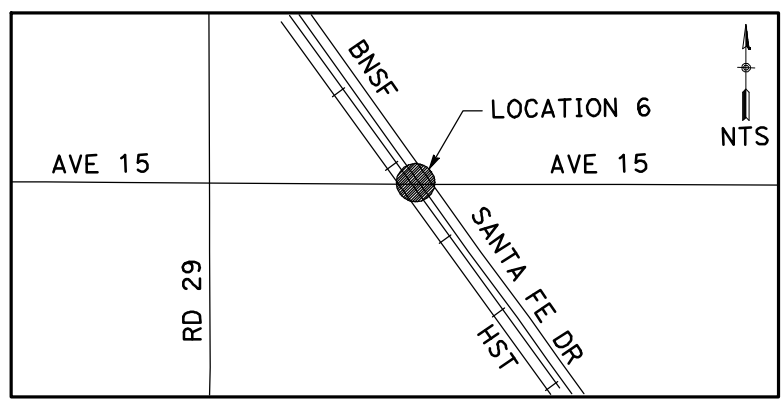
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0018-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

4/29/2011 2:14:34 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0019-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1015-A THROUGH CT1017-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
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 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

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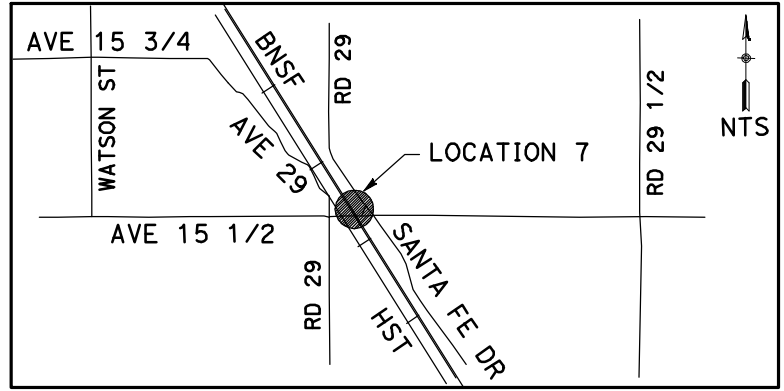
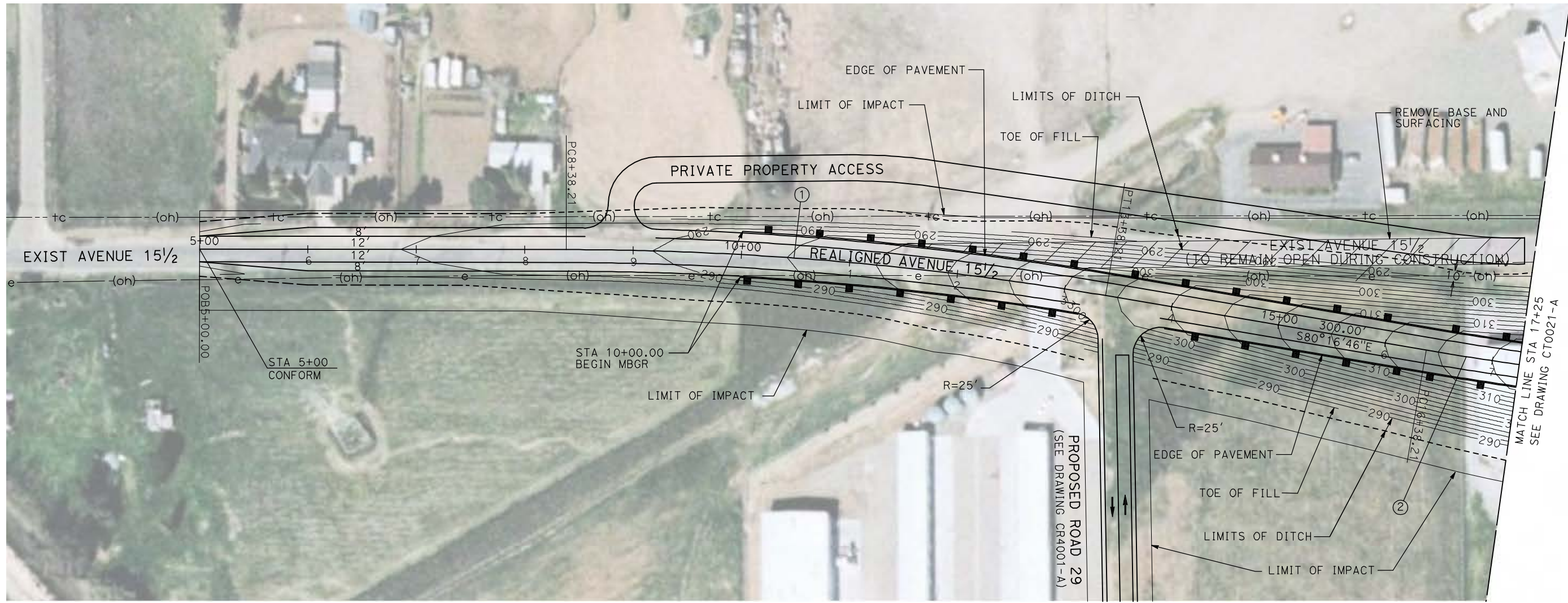
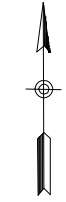
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 15
 LAYOUT
 SHEET 3 OF 3

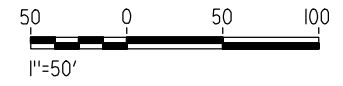
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0019-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:14:41 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0020-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1018-A THROUGH CT1020-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



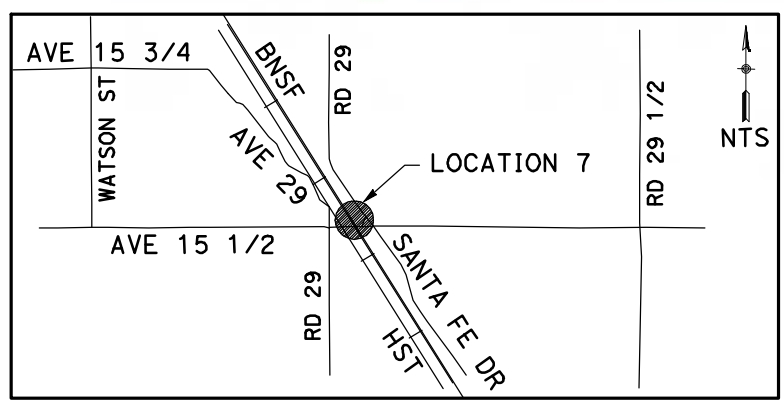
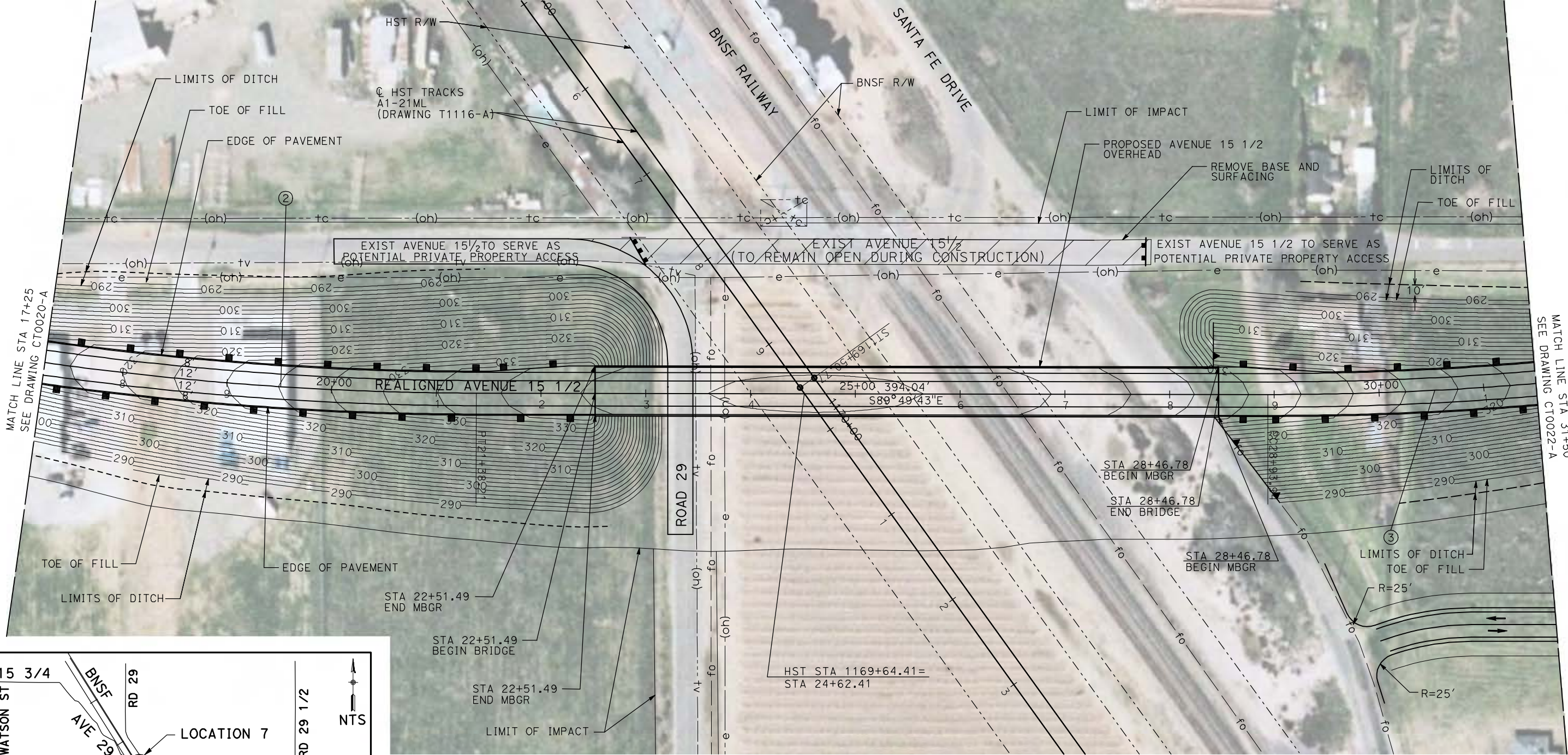
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 15 1/2
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0020-A
 SCALE
AS SHOWN
 SHEET NO.
OF

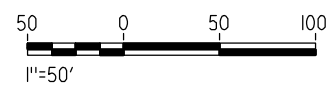
4/29/2011 2:14:48 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0021-A.dgn



CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1018-A THROUGH CT1020-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

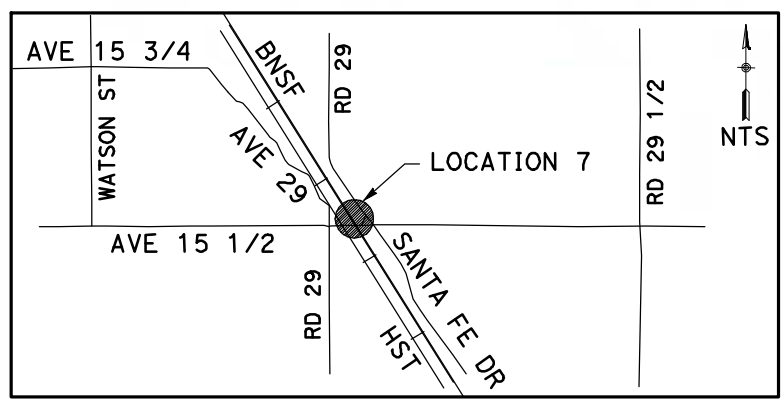
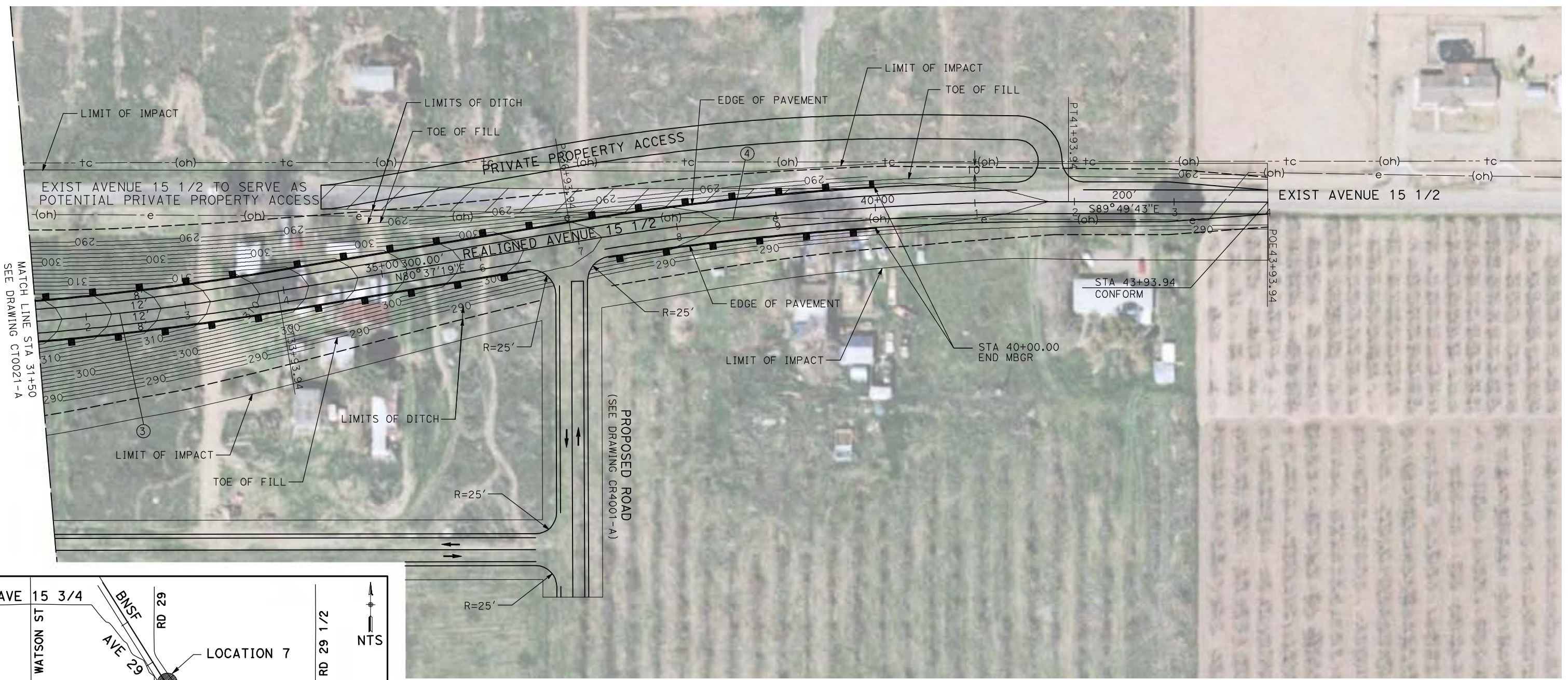
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 15 1/2
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0021-A
SCALE
AS SHOWN
SHEET NO.
OF

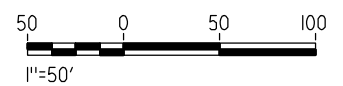
4/29/2011 2:14:57 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0022-A.dgn



CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1018-A THROUGH CT1020-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

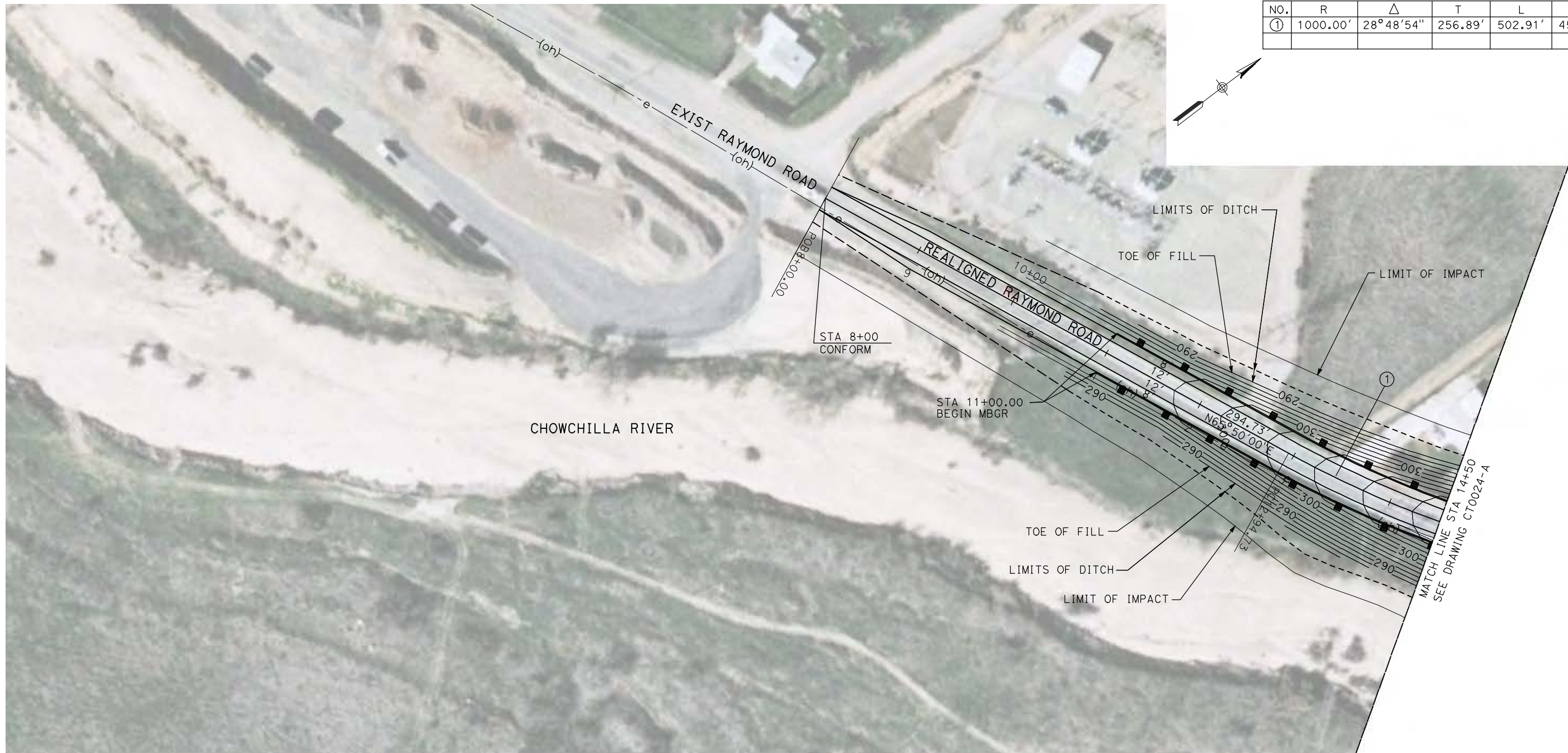


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

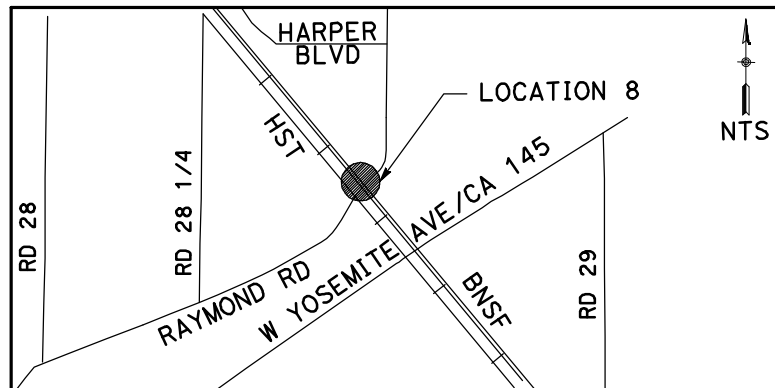
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 15 1/2
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0022-A
SCALE
AS SHOWN
SHEET NO.
OF

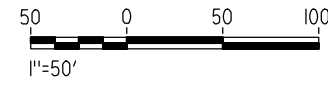
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CURVE DATA					
NO.	R	Δ	T	L	V
①	1000.00'	28° 48' 54"	256.89'	502.91'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1021-A THROUGH CT1023-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
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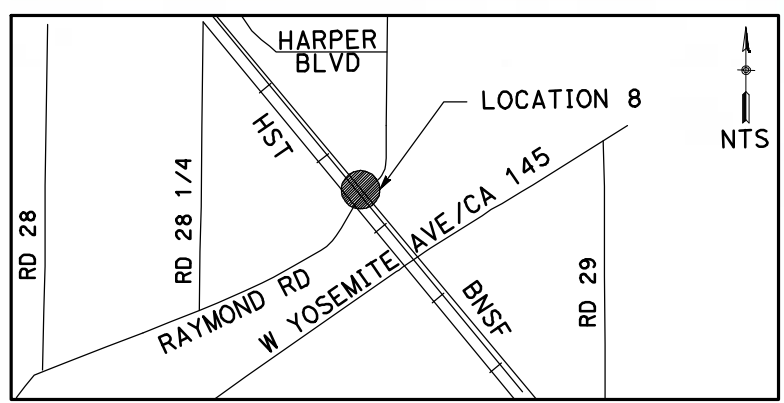
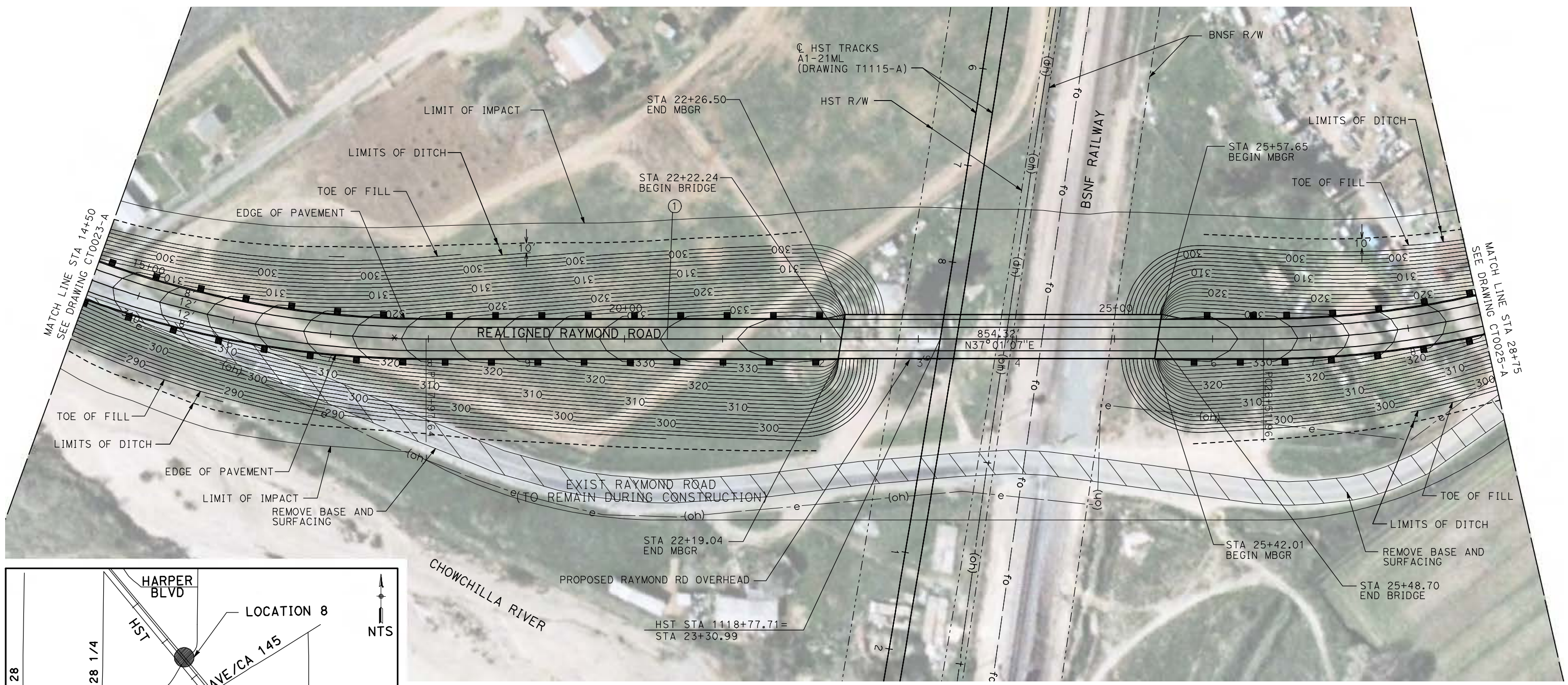
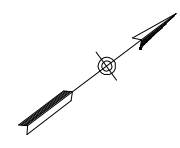


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - RAYMOND ROAD
LAYOUT
SHEET 1 OF 3

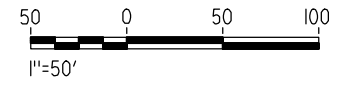
CONTRACT NO.
HST06-007
DRAWING NO.
CT0023-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:15:11 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0024-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	1000.00'	37°01'07"	334.77'	646.09'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1021-A THROUGH CT1023-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
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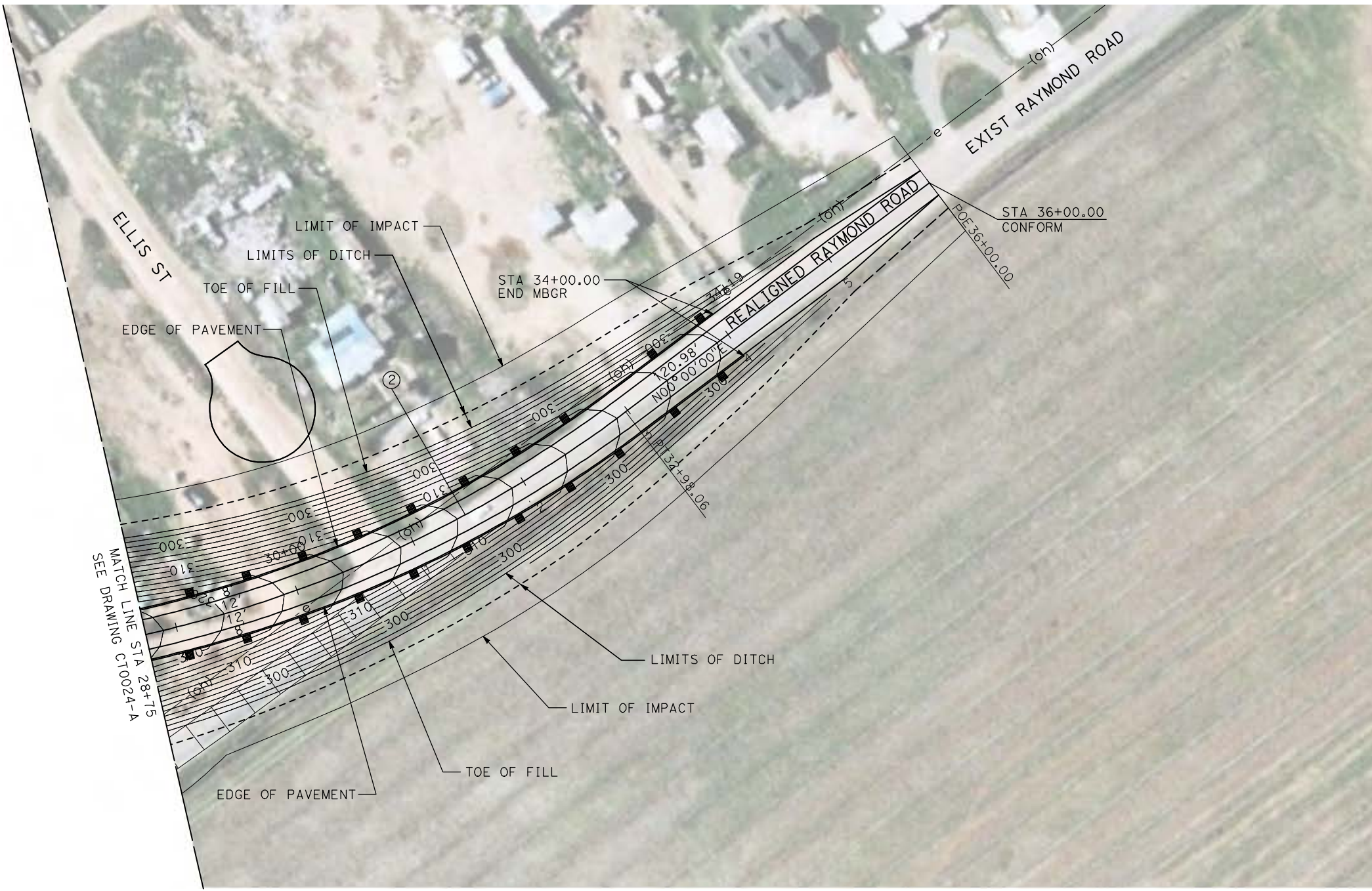
NOT FOR
CONSTRUCTION



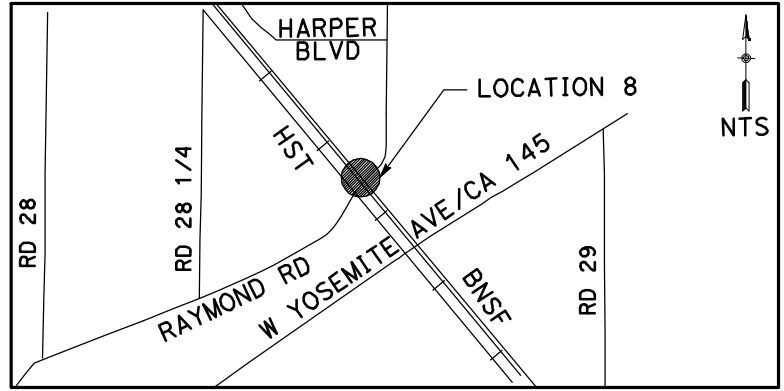
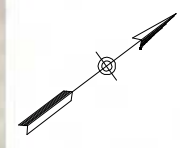
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - RAYMOND ROAD
 LAYOUT
 SHEET 2 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0024-A
 SCALE
AS SHOWN
 SHEET NO.
OF

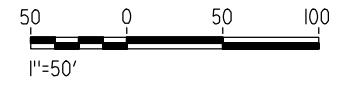
4/29/2011 2:15:20 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0025-A.dgn



CURVE DATA					
NO.	R	Δ	T	L	V
②	1000.00'	37°01'07"	334.77'	646.09'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1021-A THROUGH CT1023-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
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04/29/2011

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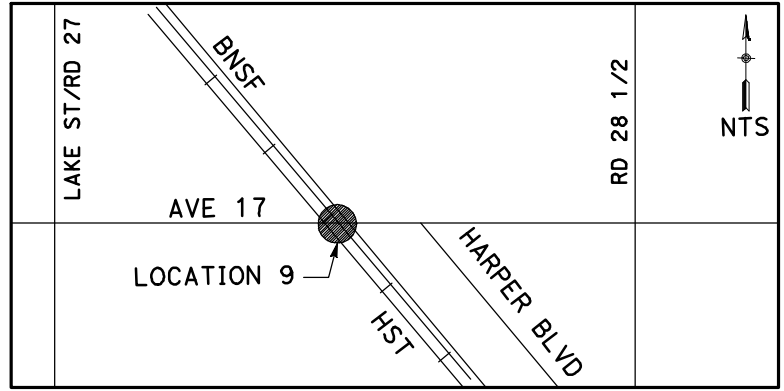
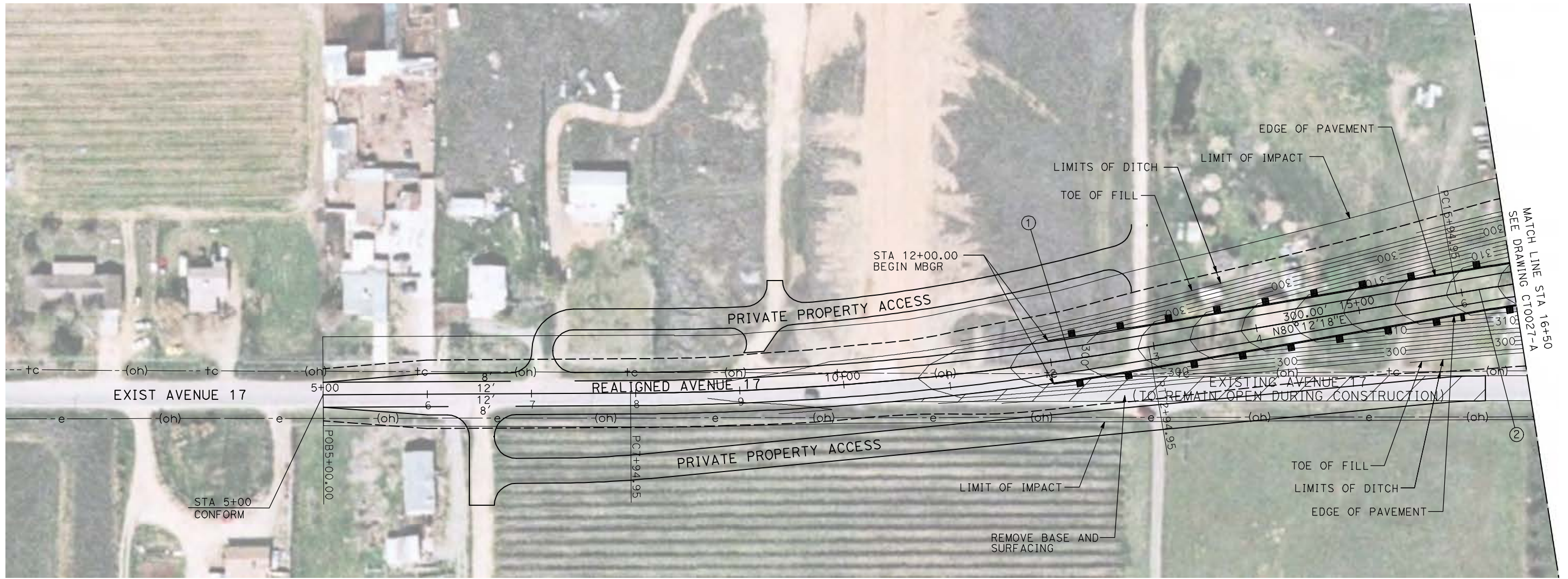
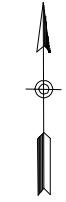


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - RAYMOND ROAD
 LAYOUT
 SHEET 3 OF 3

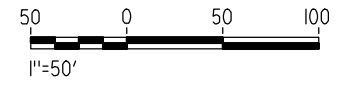
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0025-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:15:27 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0026-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1024-A THROUGH CT1026-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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H. PHAN
CHECKED BY
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IN CHARGE
A. BOONE
DATE
04/29/2011

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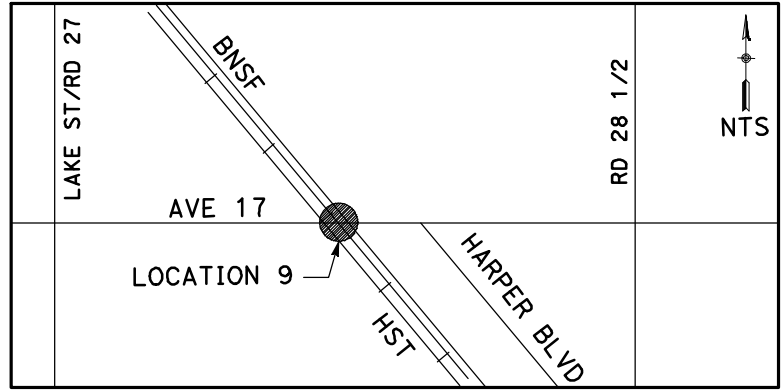
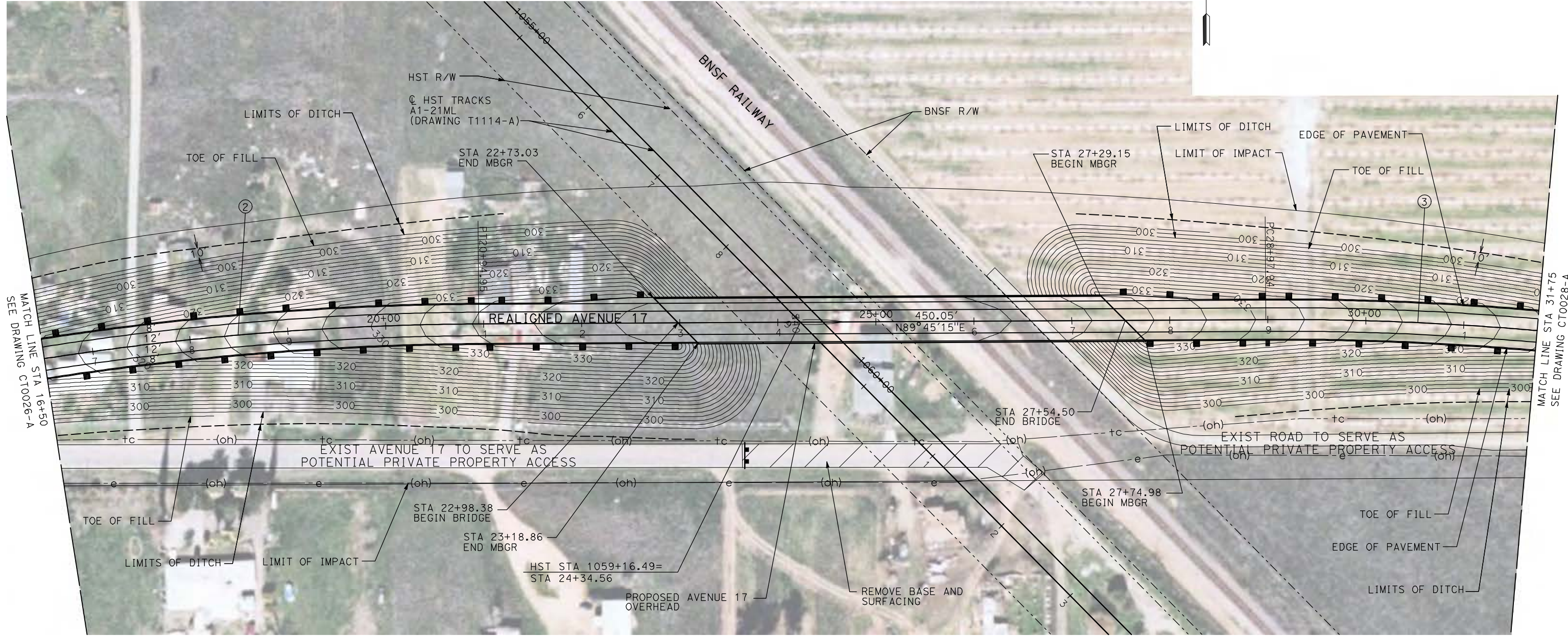
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 17
LAYOUT
SHEET 1 OF 3

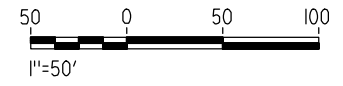
CONTRACT NO.
HST06-007
DRAWING NO.
CT0026-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:15:34 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\WF-CT-0027-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1024-A THROUGH CT1026-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON

DRAWN BY
H. PHAN

CHECKED BY
J. ZANDIAN

IN CHARGE
A. BOONE

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04/29/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 17
 LAYOUT
 SHEET 2 OF 3

CONTRACT NO.
HST06-007

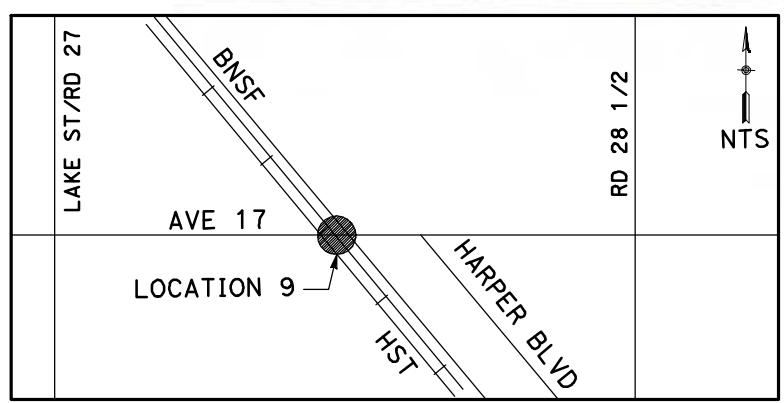
DRAWING NO.
CT0027-A

SCALE
AS SHOWN

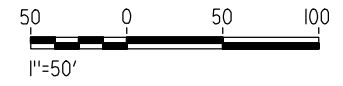
SHEET NO.
OF

4/29/2011 2:15:43 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0028-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1024-A THROUGH CT1026-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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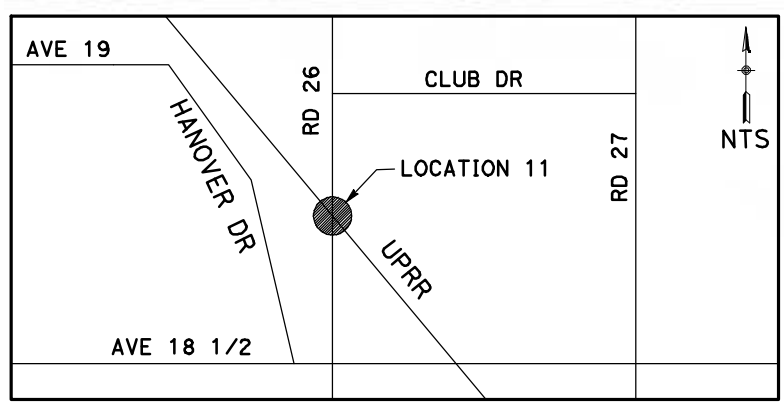
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 17
LAYOUT
SHEET 3 OF 3

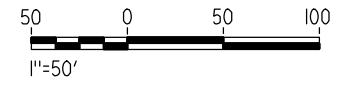
CONTRACT NO.
HST06-007
DRAWING NO.
CT0028-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:15:50 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0032-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	04° 35' 06"	200.16'	400.11'	45 MPH
②	5000.00'	04° 35' 06"	200.16'	400.11'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1030-A THROUGH CT1032-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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J. ZANDIAN
IN CHARGE
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DATE
04/29/2011

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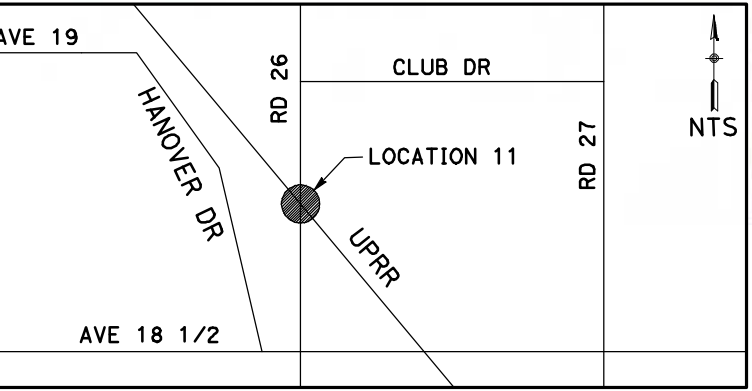
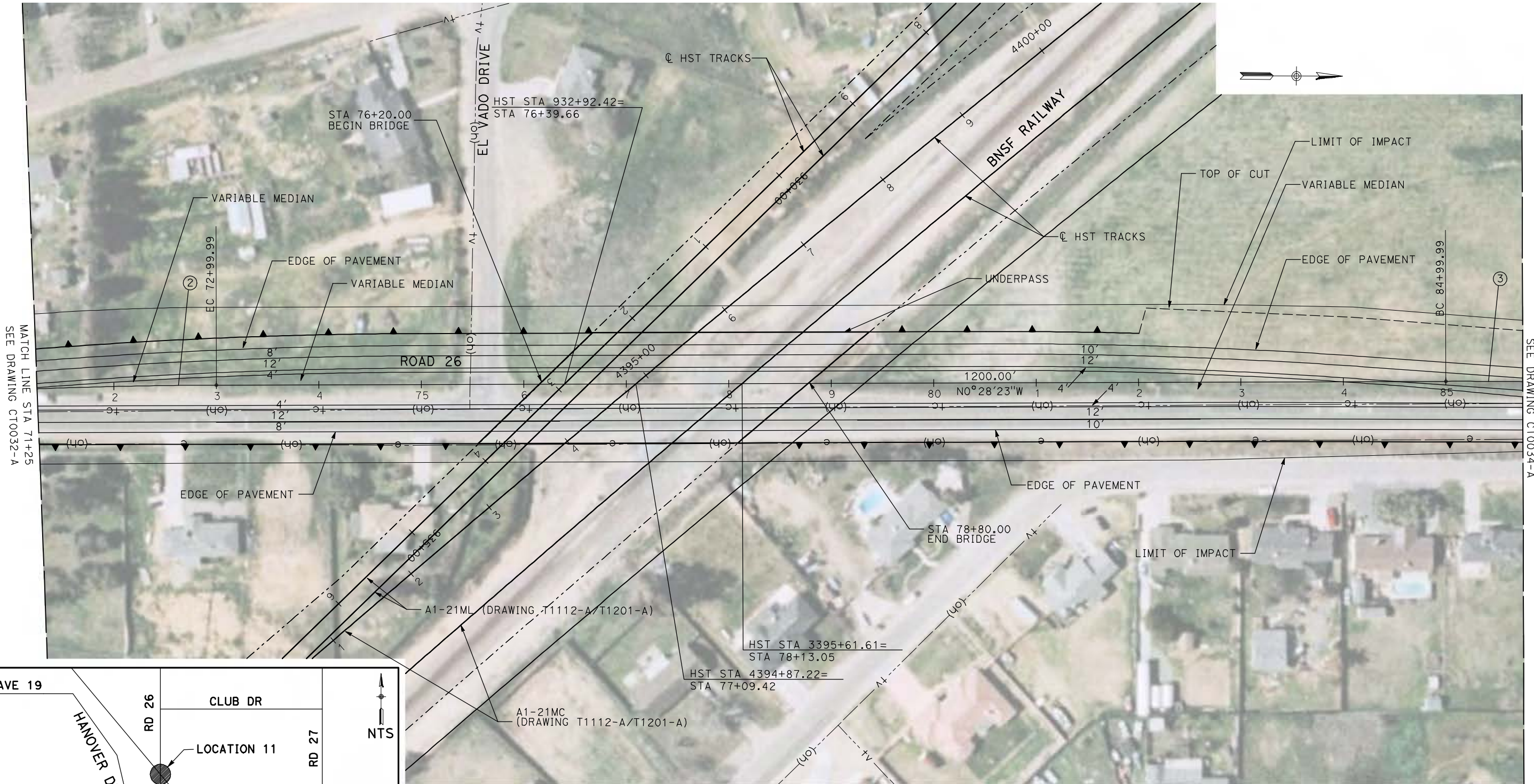


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
UNDERPASS - ROAD 26
LAYOUT
SHEET 1 OF 3

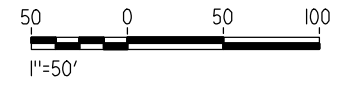
CONTRACT NO.
HSR06-007
DRAWING NO.
CT0032-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:15:56 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0033-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	04°35'06"	200.16'	400.11'	45 MPH
③	5000.00'	04°35'06"	200.16'	400.11'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1030-A THROUGH CT1032-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

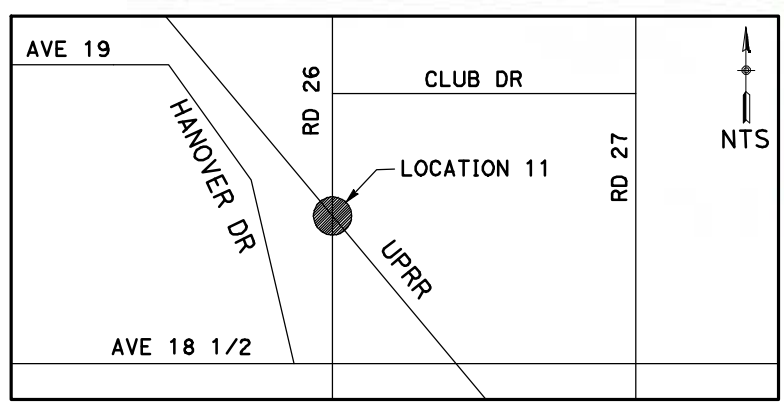


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
UNDERPASS - ROAD 26
LAYOUT
SHEET 2 OF 3

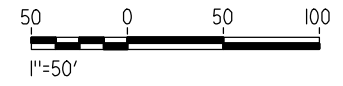
CONTRACT NO.
HSR06-007
DRAWING NO.
CT0033-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:16:03 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\11-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0034-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	04°35'06"	200.16'	400.11'	45 MPH
④	5000.00'	04°35'06"	200.16'	400.11'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1030-A THROUGH CT1032-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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IN CHARGE
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04/29/2011

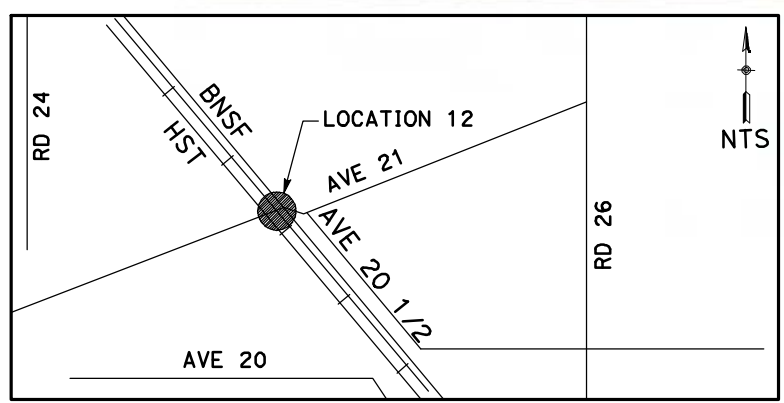
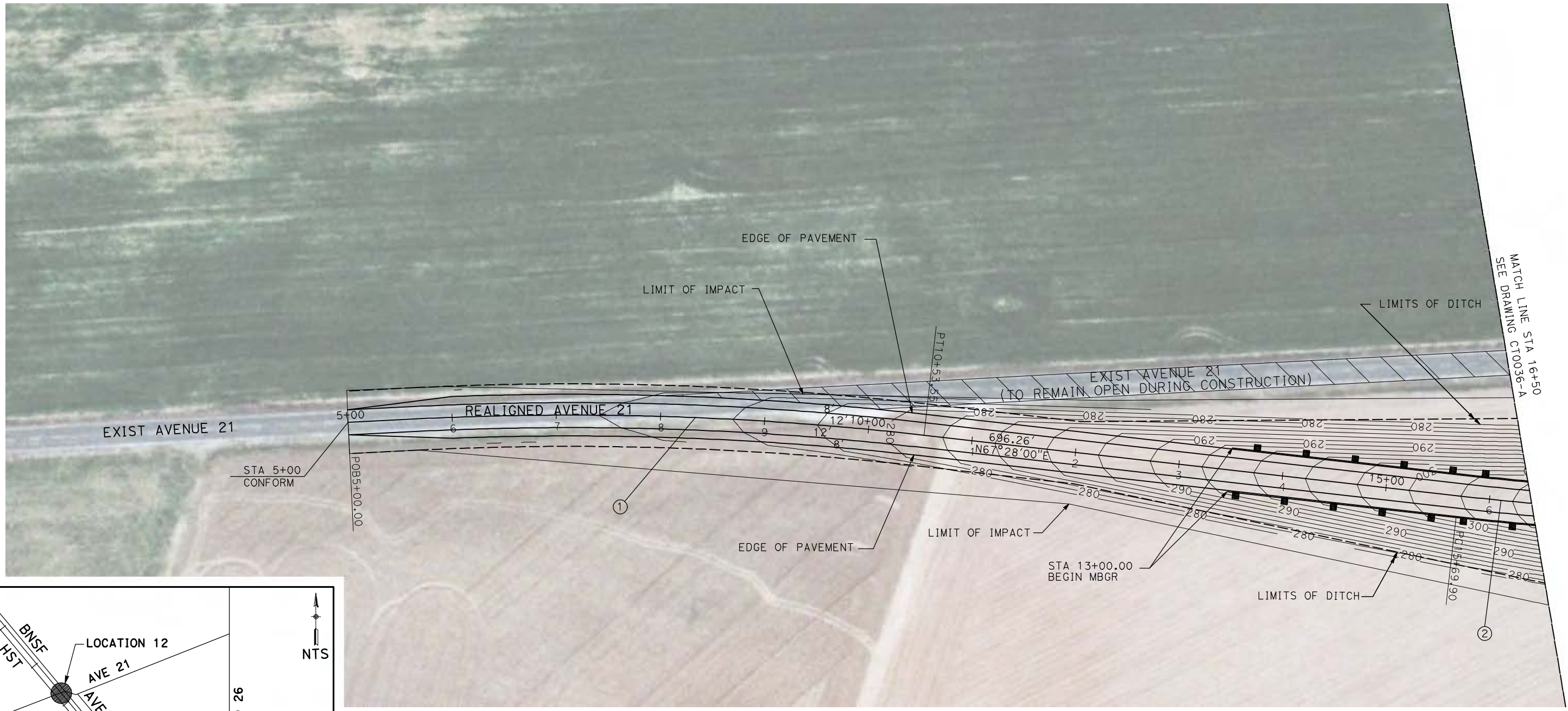
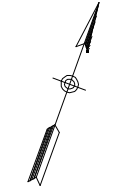


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
UNDERPASS - ROAD 26
LAYOUT
SHEET 3 OF 3

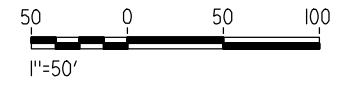
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HSR06-007
DRAWING NO.
CT0034-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:16:09 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0035-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	6°43'41"	176.34'	352.27'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1033-A THROUGH CT1035-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
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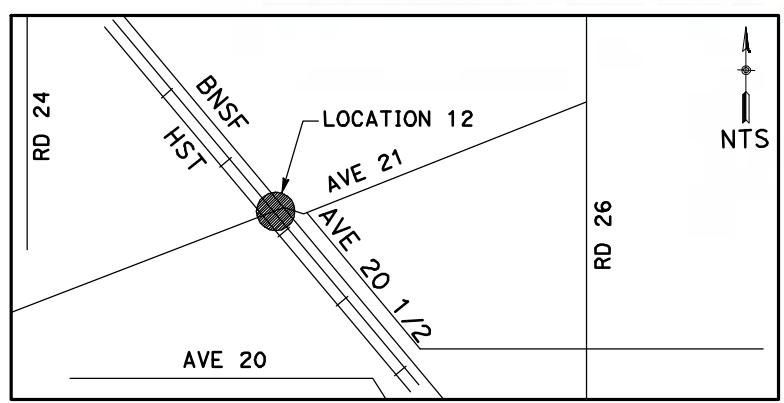
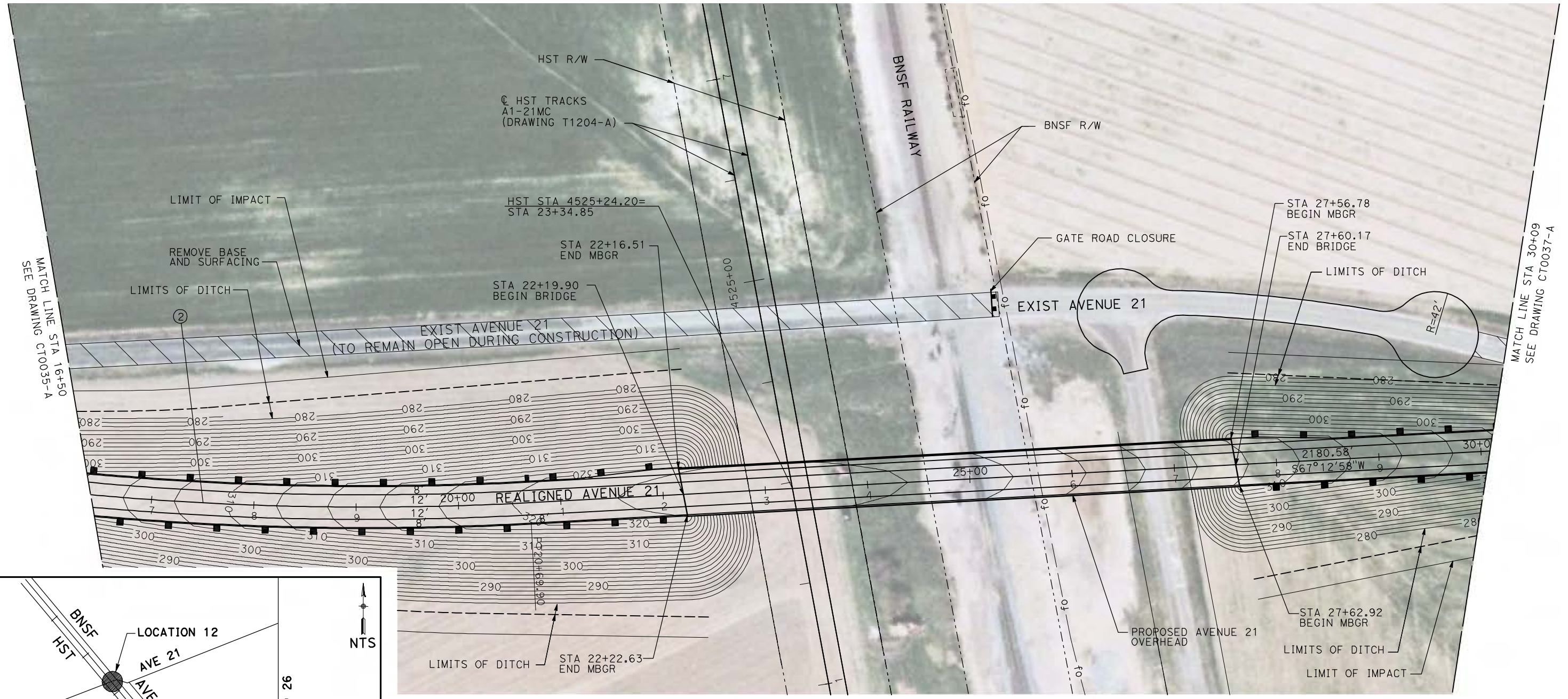
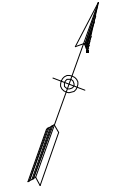


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 21
 LAYOUT
 SHEET 1 OF 3

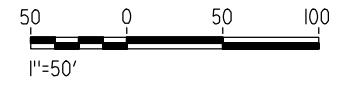
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0035-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:16:16 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0036-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1033-A THROUGH CT1035-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
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04/29/2011

RECORD SET
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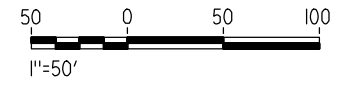
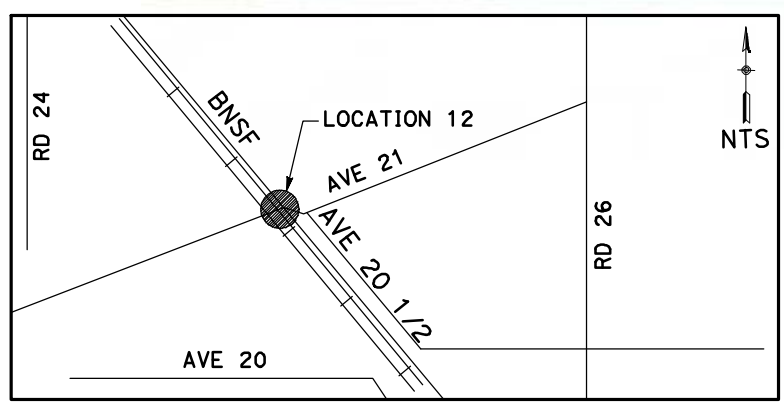
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 21
 LAYOUT
 SHEET 2 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0036-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:16:24 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0037-A.dgn



CURVE DATA					
NO.	R	Δ	T	L	V



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



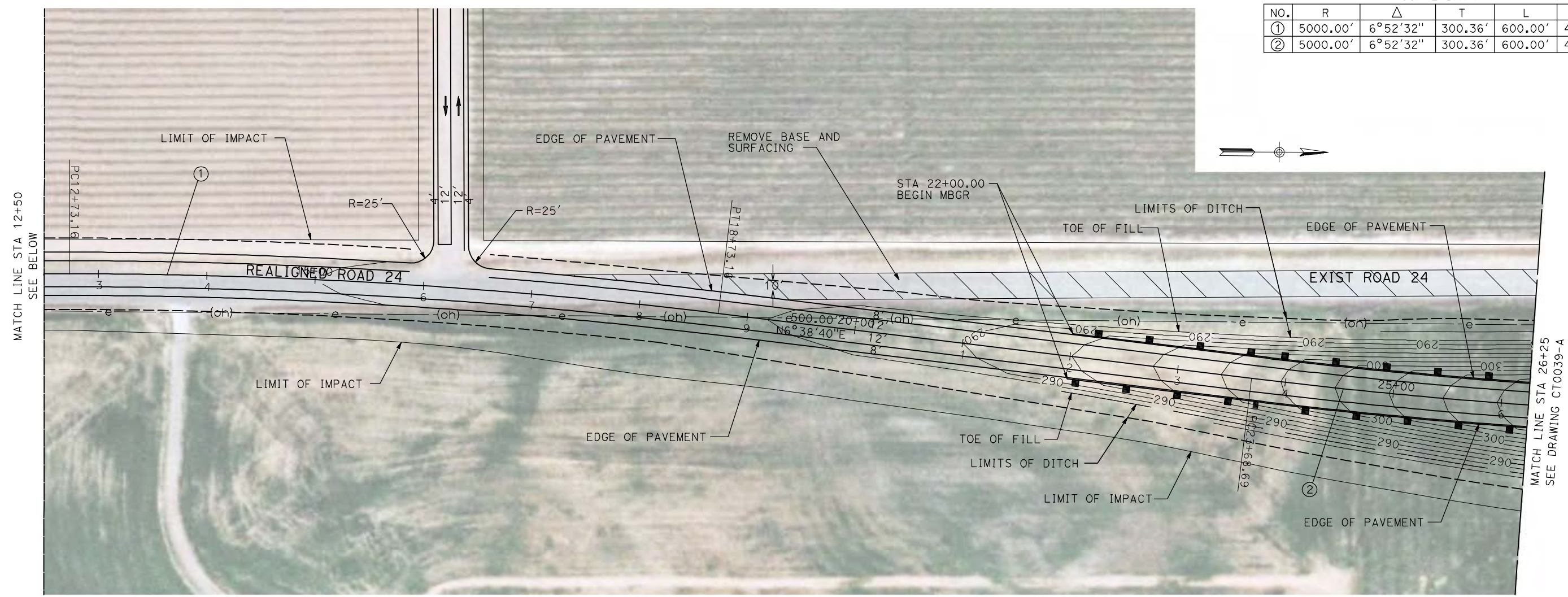
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 21
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0037-A
SCALE
AS SHOWN
SHEET NO.
OF

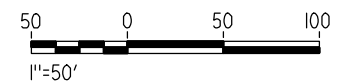
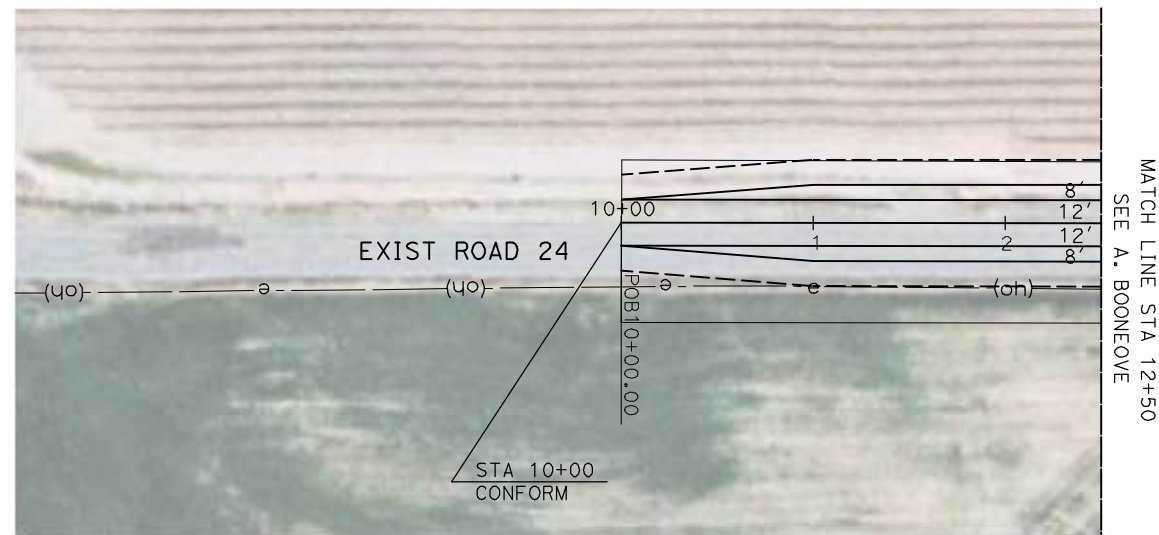
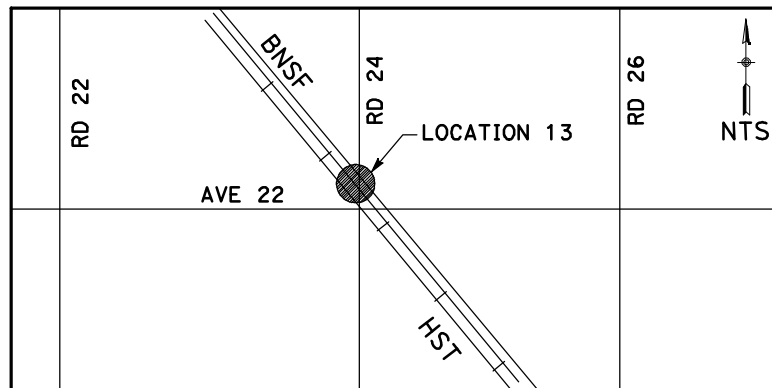
4/29/2011 2:16:31 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\11-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0038-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1036-A THROUGH CT1038-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

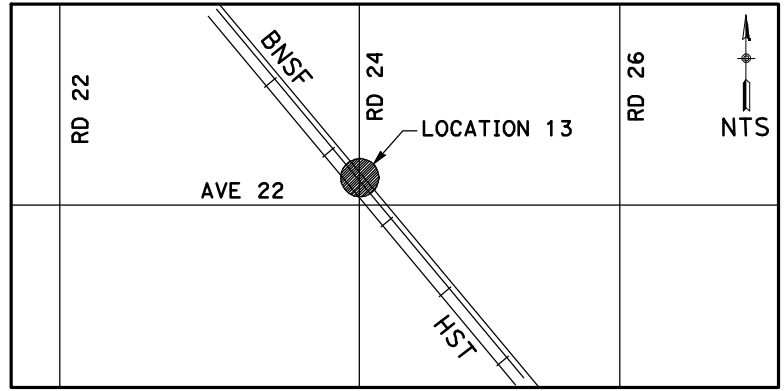
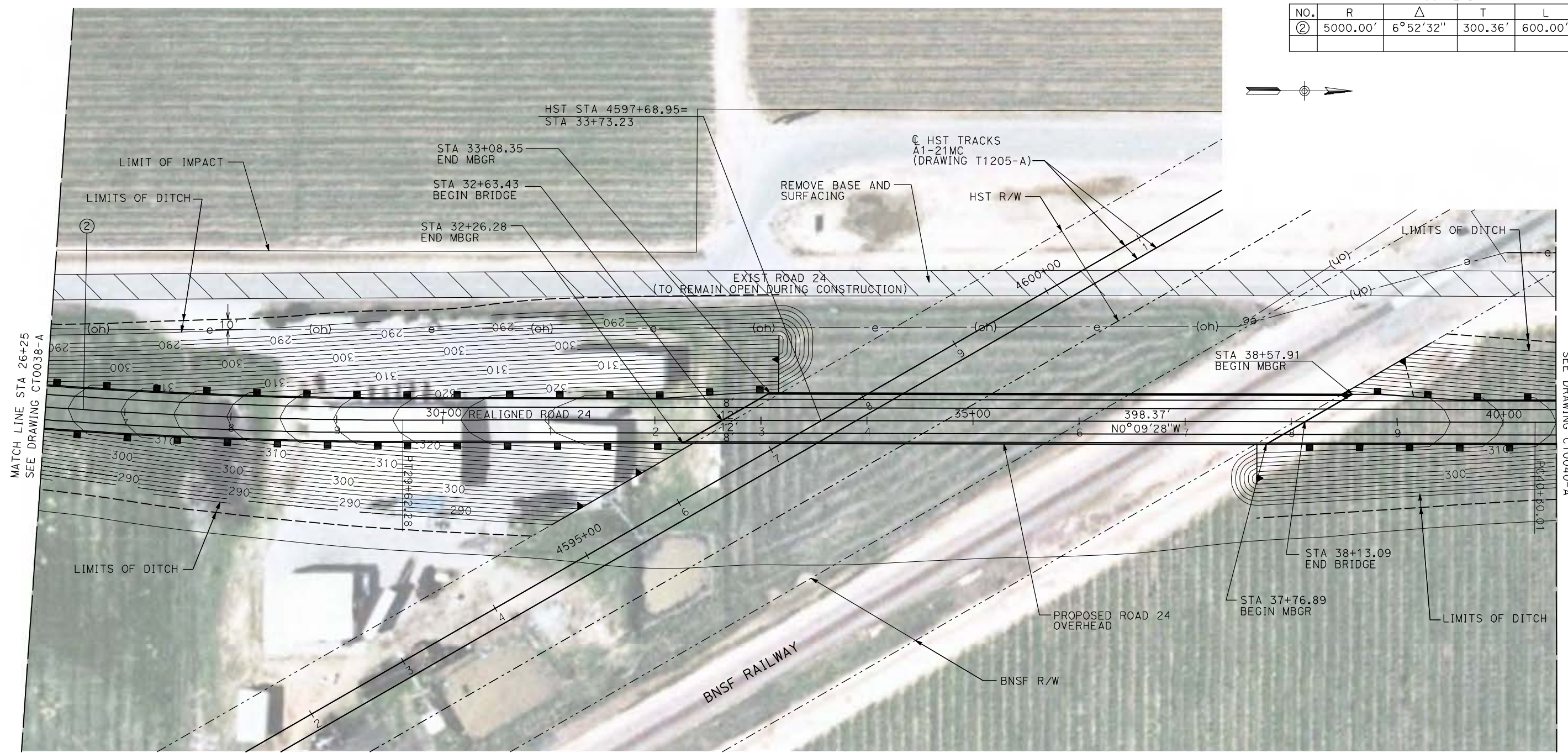
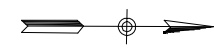


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 1 OF 3

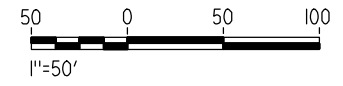
CONTRACT NO.
HST06-007
DRAWING NO.
CT0038-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:16:39 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0039-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1036-A THROUGH CT1038-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

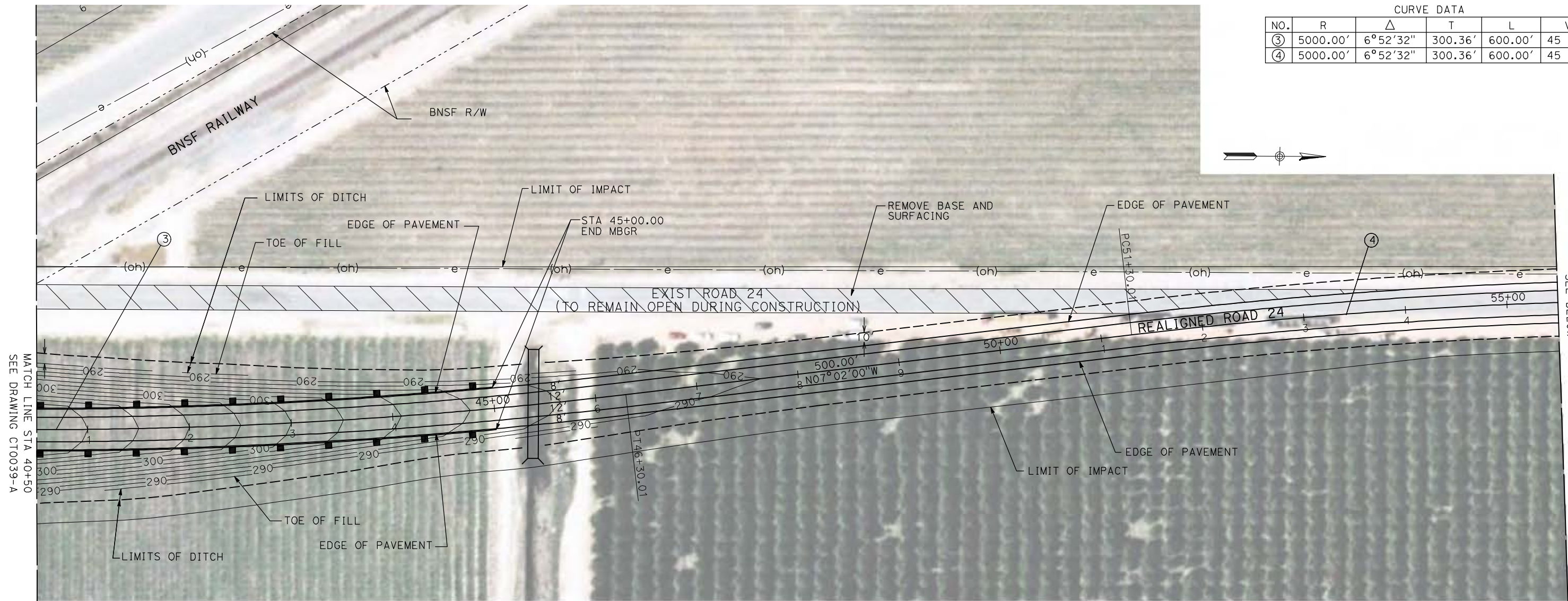


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 24
 LAYOUT
 SHEET 2 OF 3

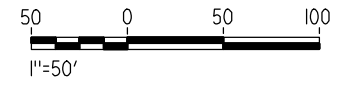
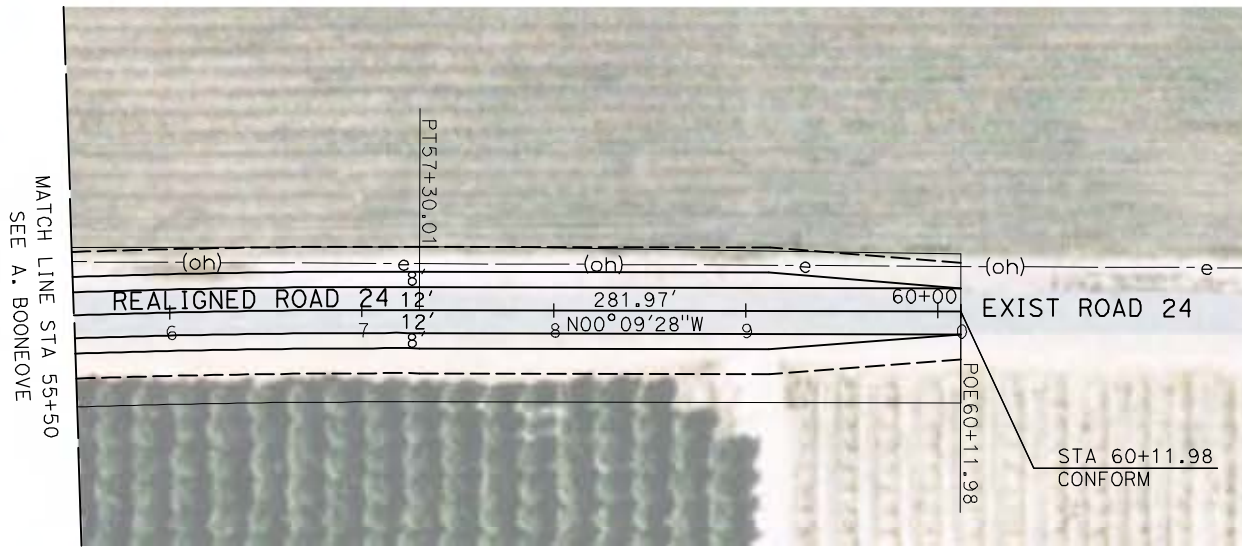
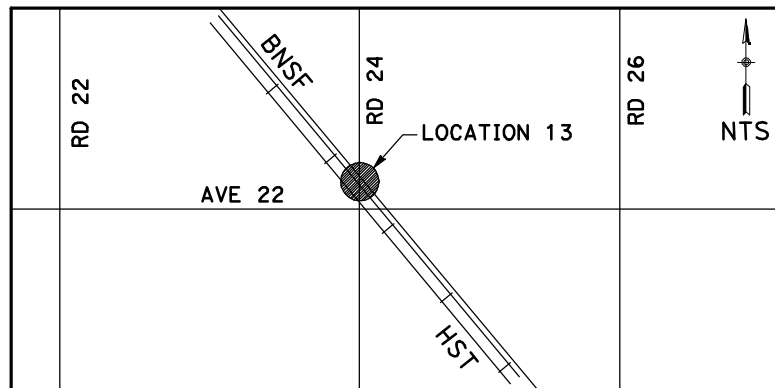
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0039-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:16:46 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0040-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1036-A THROUGH CT1038-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

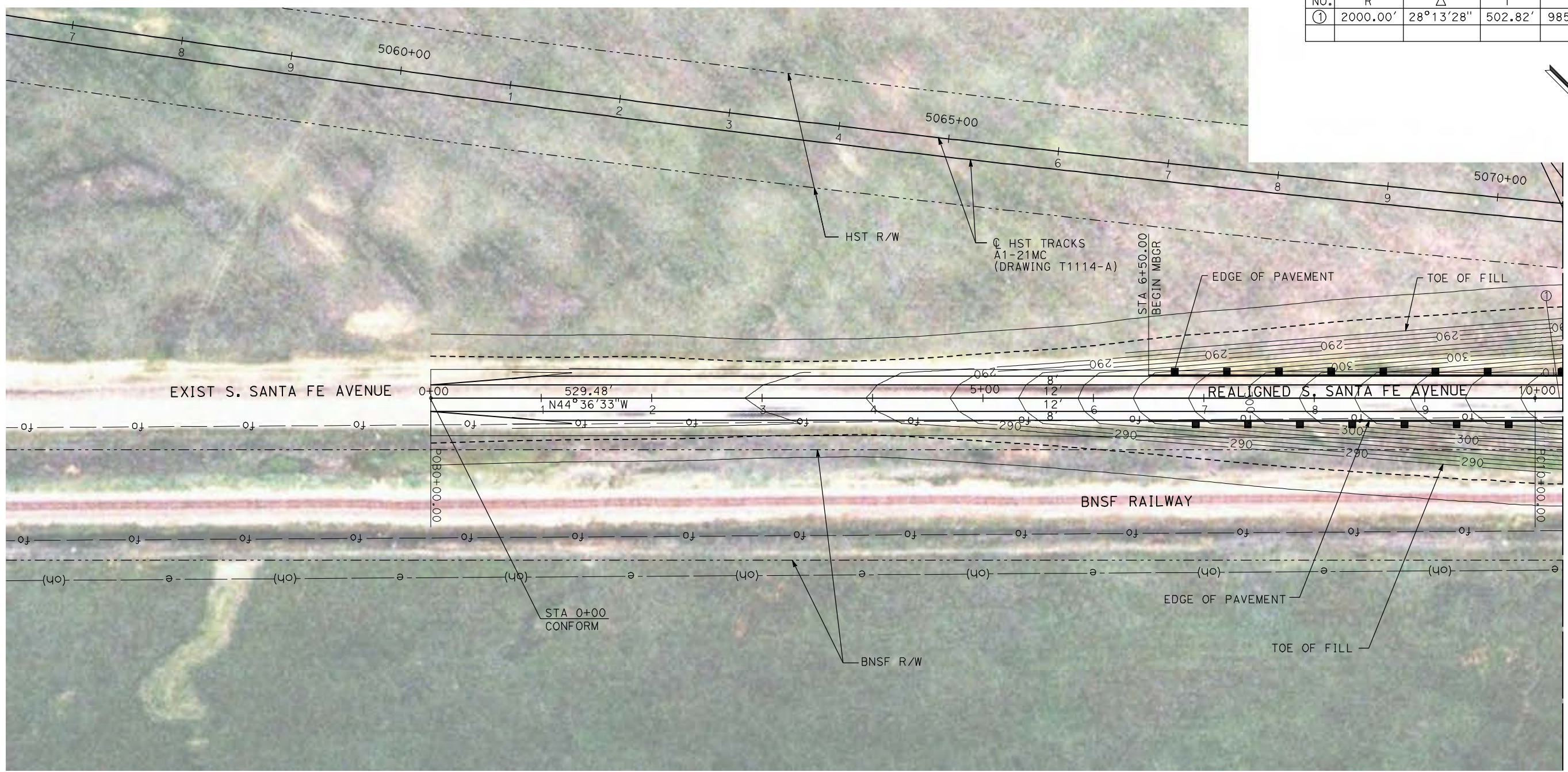


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 3 OF 3

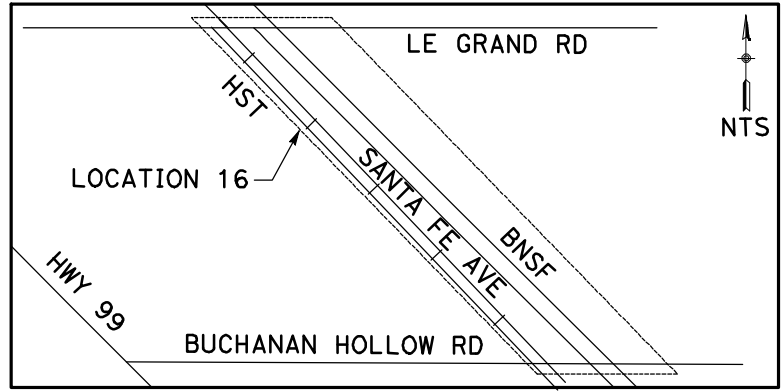
CONTRACT NO.
HST06-007
DRAWING NO.
CT0040-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:16:53 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0048-A.dgn

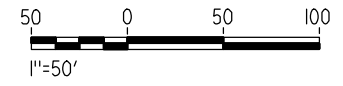
CURVE DATA					
NO.	R	Δ	T	L	V
①	2000.00'	28°13'28"	502.82'	985.22'	45 MPH



MATCH LINE STA 10+25
SEE DRAWING CT0049-A



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1045-A THROUGH CT1047-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

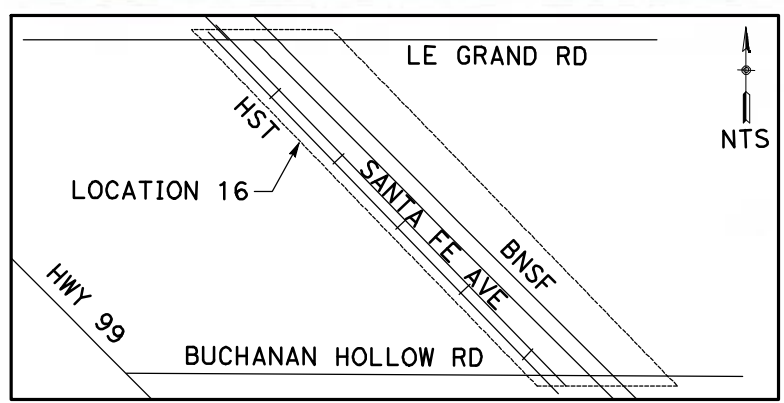
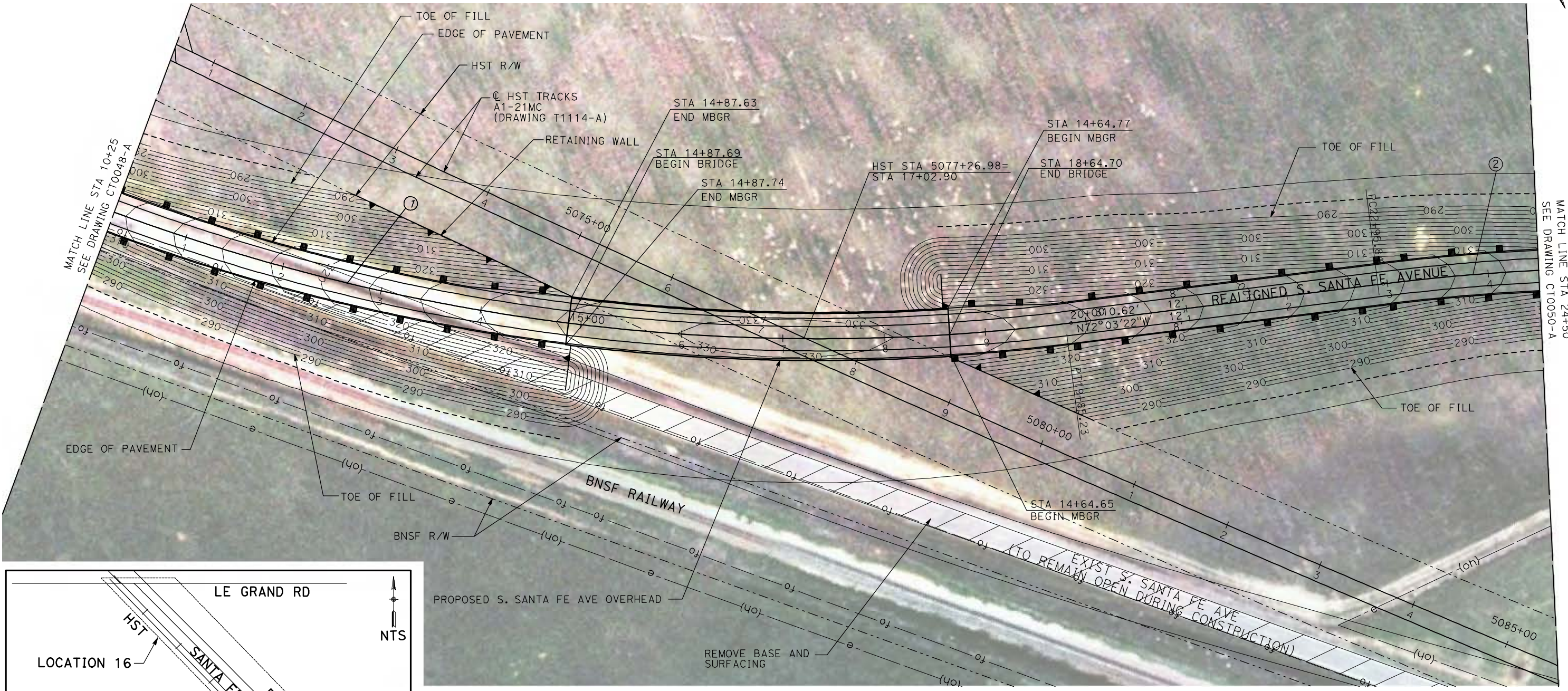
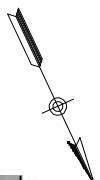


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. SANTA FE AVE
LAYOUT
SHEET 1 OF 3

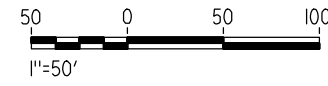
CONTRACT NO.
HST06-007
DRAWING NO.
CT0048-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:17:00 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0049-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	2000.00'	28°13'28"	502.82'	985.22'	45 MPH
②	2000.00'	28°13'28"	502.82'	985.22'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1045-A THROUGH CT1047-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

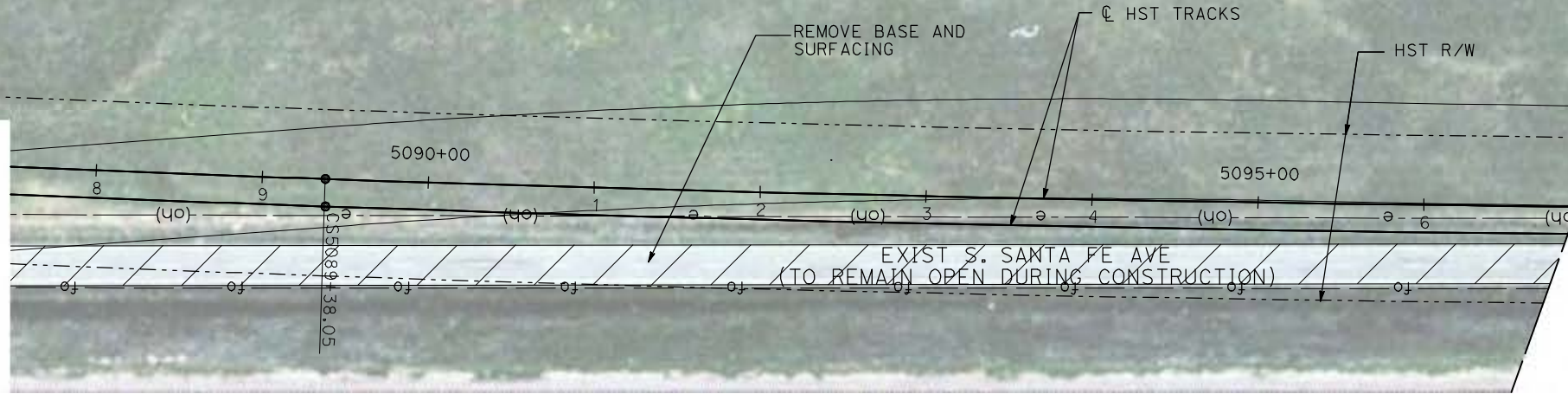
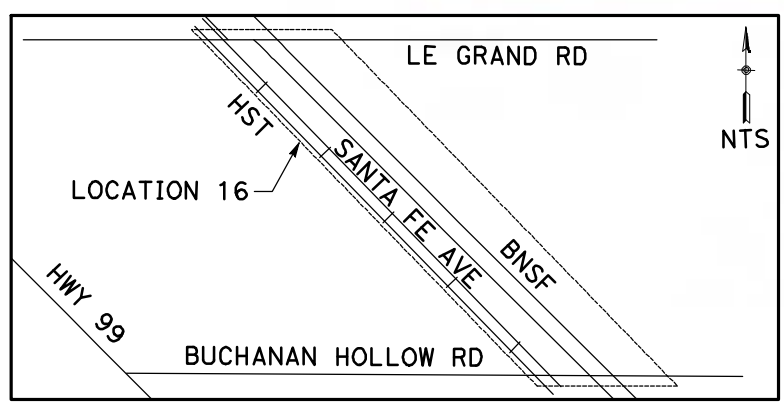
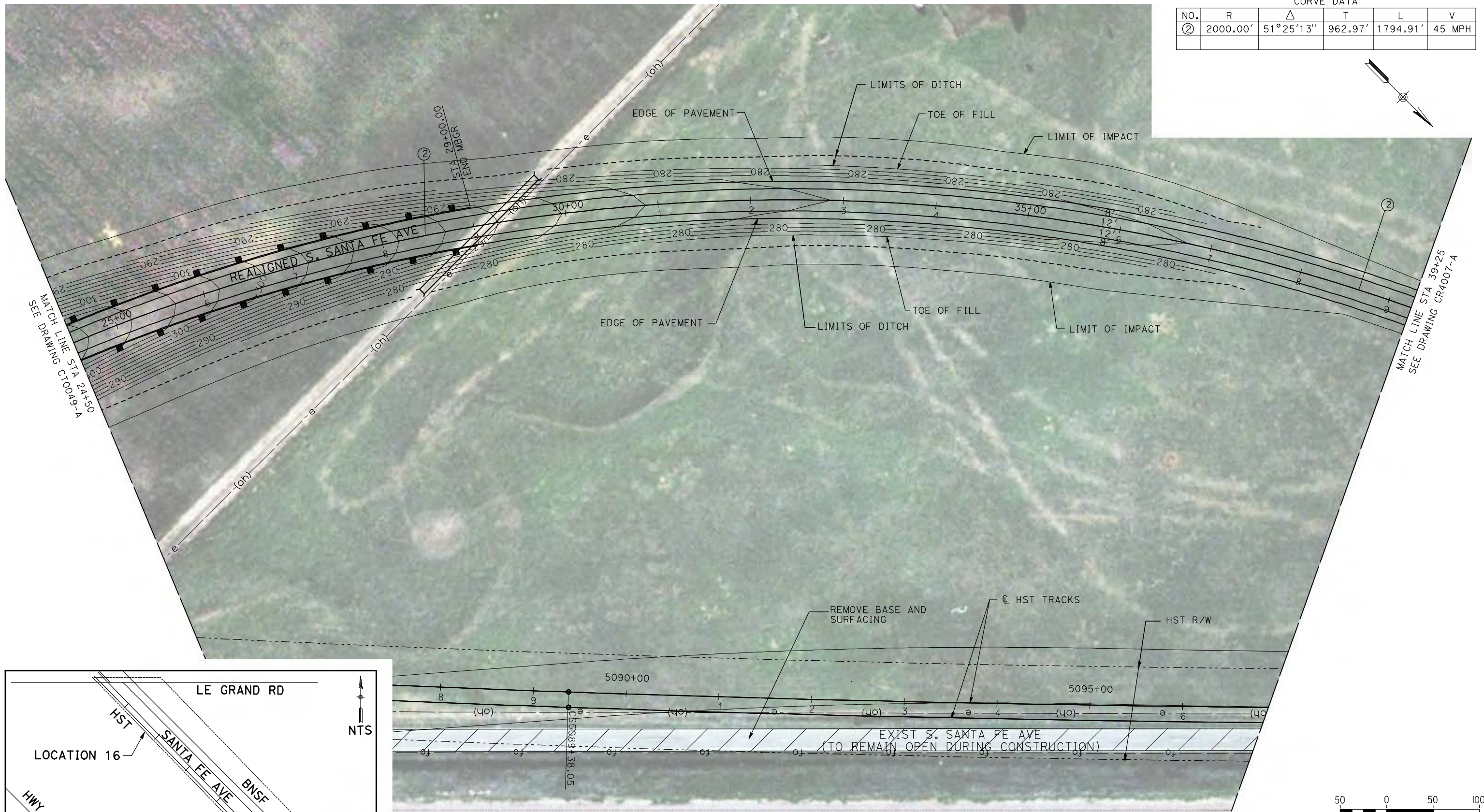


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. SANTA FE AVE
 LAYOUT
 SHEET 2 OF 3

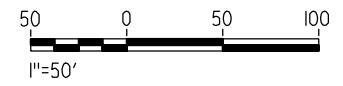
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0049-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
②	2000.00'	51°25'13"	962.97'	1794.91'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1045-A THROUGH CT1047-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

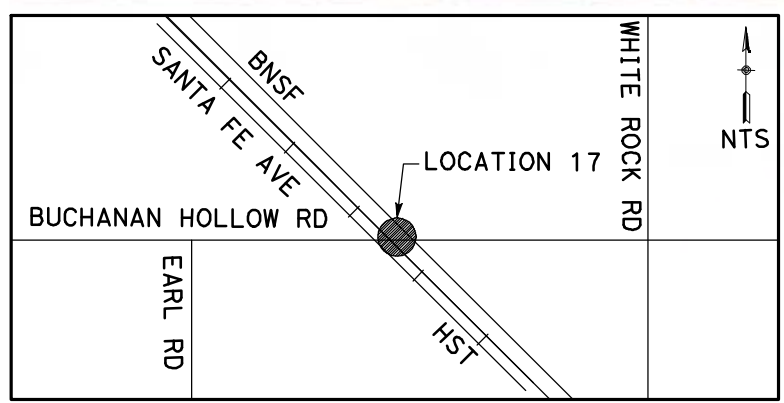
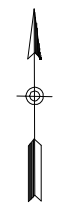
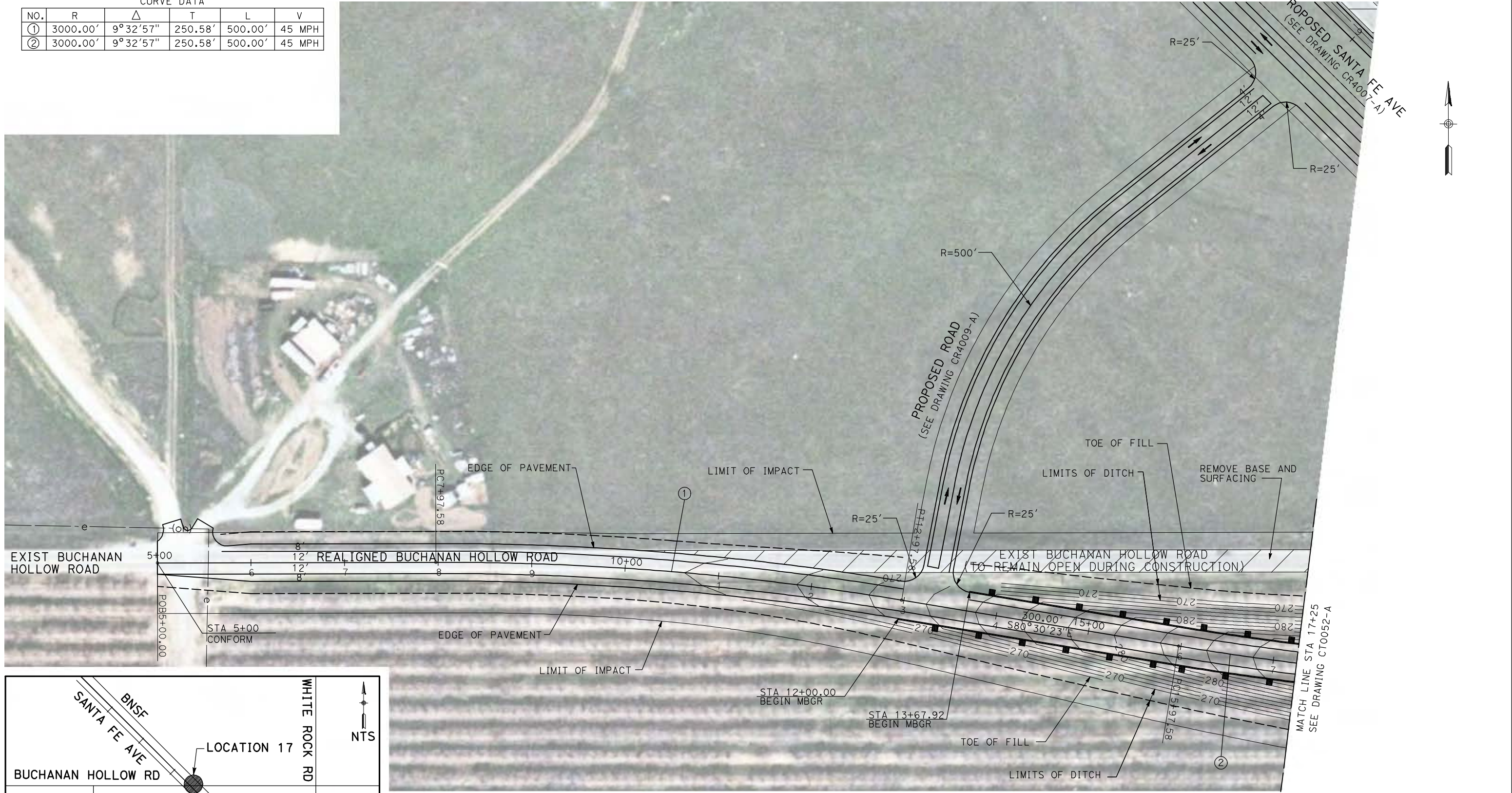


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. SANTA FE AVE
LAYOUT
SHEET 3 OF 3

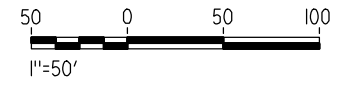
CONTRACT NO.
HST06-007
DRAWING NO.
CT0050-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:17:16 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0051-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1048-A THROUGH CT1050-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

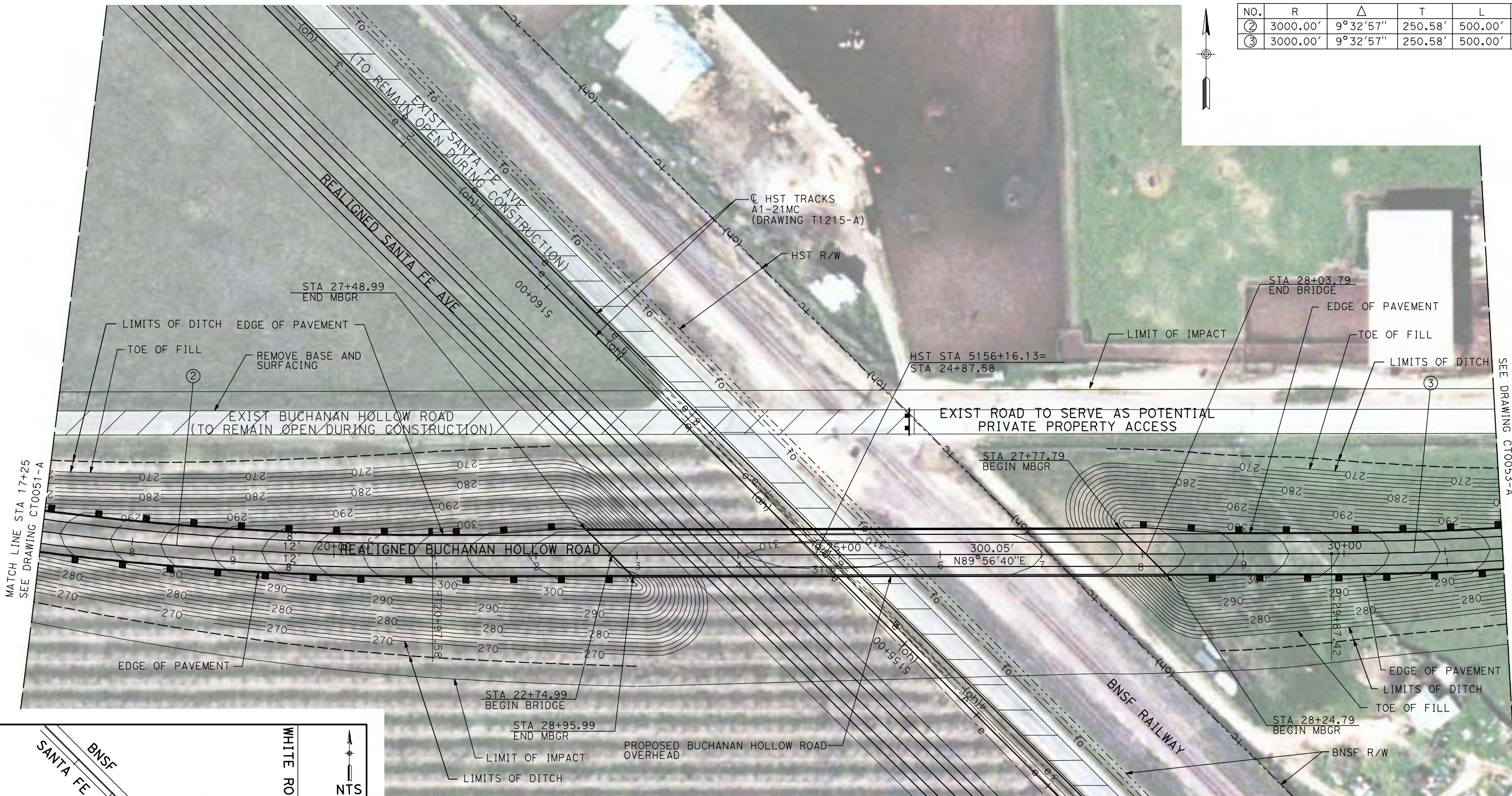


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BUCHANAN HOLLOW ROAD
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0051-A
 SCALE
AS SHOWN
 SHEET NO.
OF

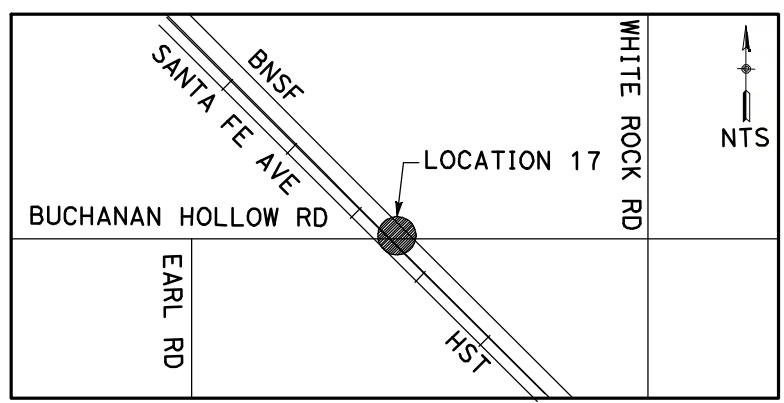
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CURVE DATA					
NO.	R	Δ	T	L	V
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③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH

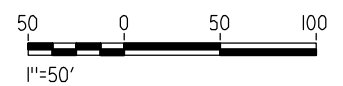


MATCH LINE STA 17+25
SEE DRAWING CT0051-A

MATCH LINE STA 31+50
SEE DRAWING CT0053-A



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1048-A THROUGH CT1050-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
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NOT FOR
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

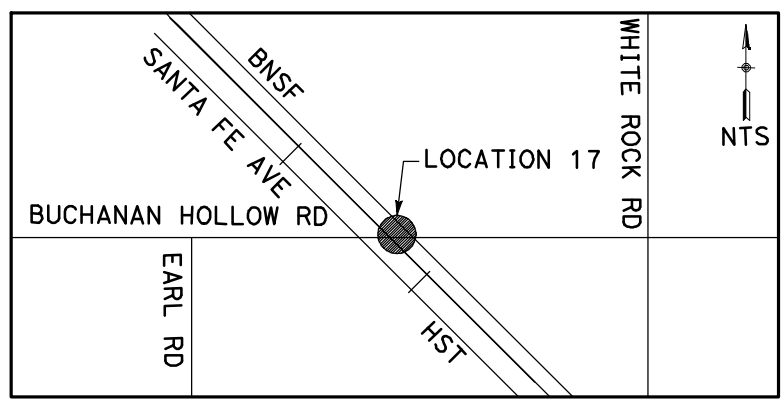
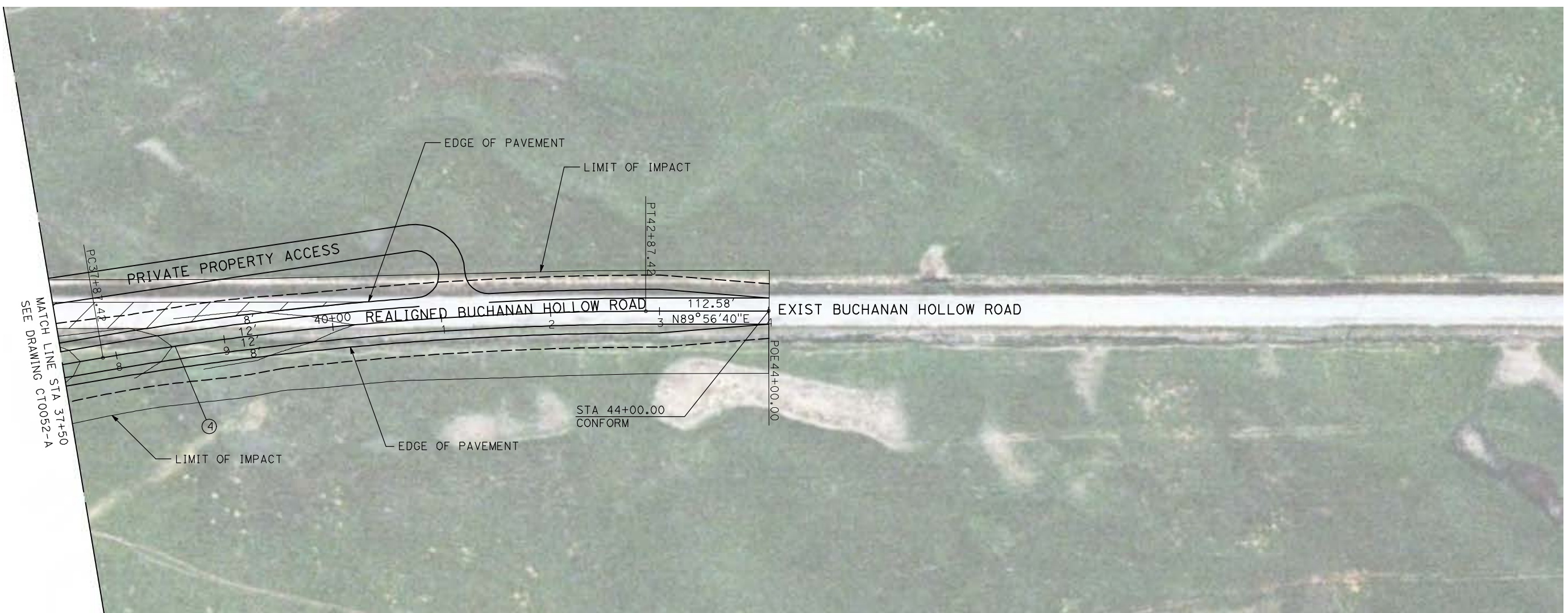
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - BUCHANAN HOLLOW ROAD
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0052-A
SCALE
AS SHOWN
SHEET NO.
OF

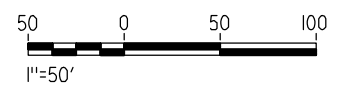
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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1048-A THROUGH CT1050-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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CONSTRUCTION



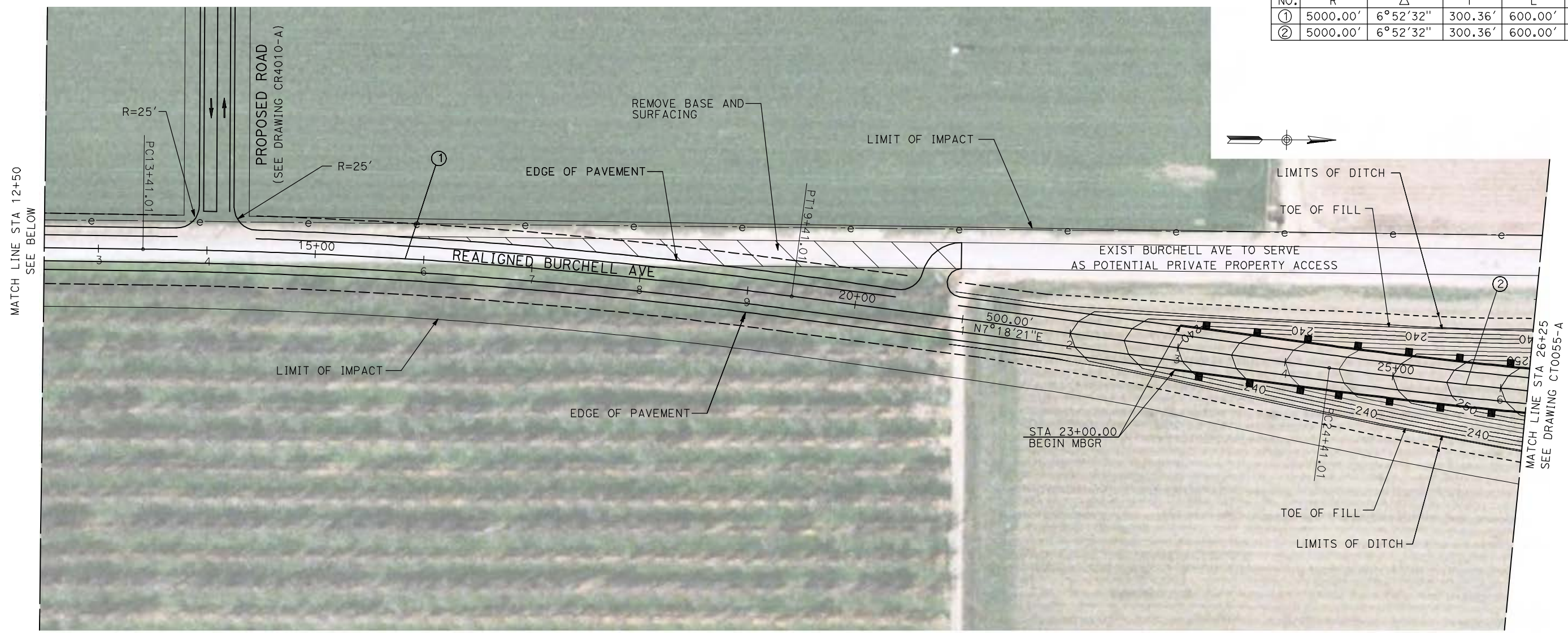
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - BUCHANAN HOLLOW ROAD
LAYOUT
SHEET 3 OF 3

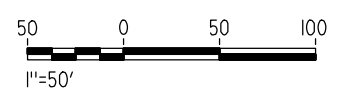
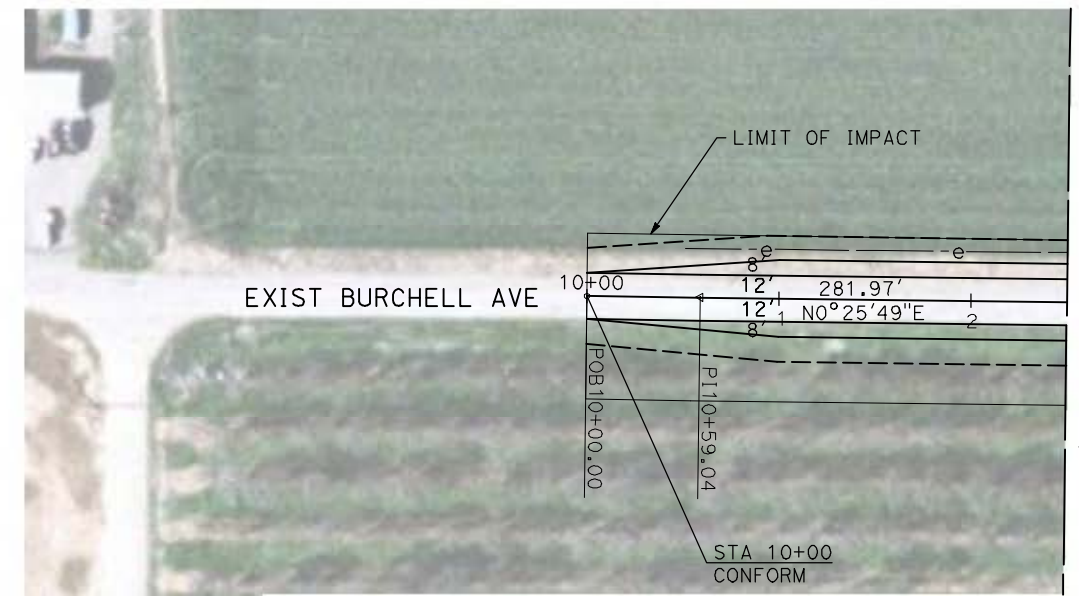
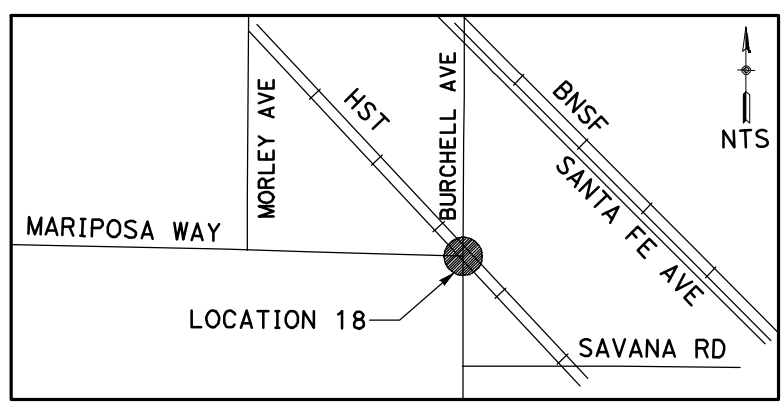
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HST06-007
DRAWING NO.
CT0053-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:17:39 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0054-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1051-A THROUGH CT1053-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

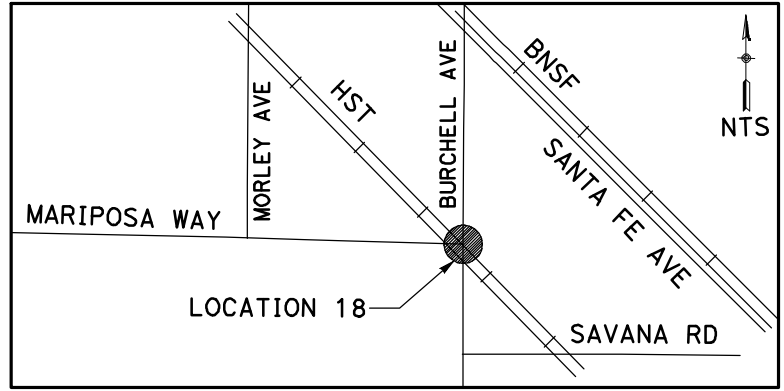
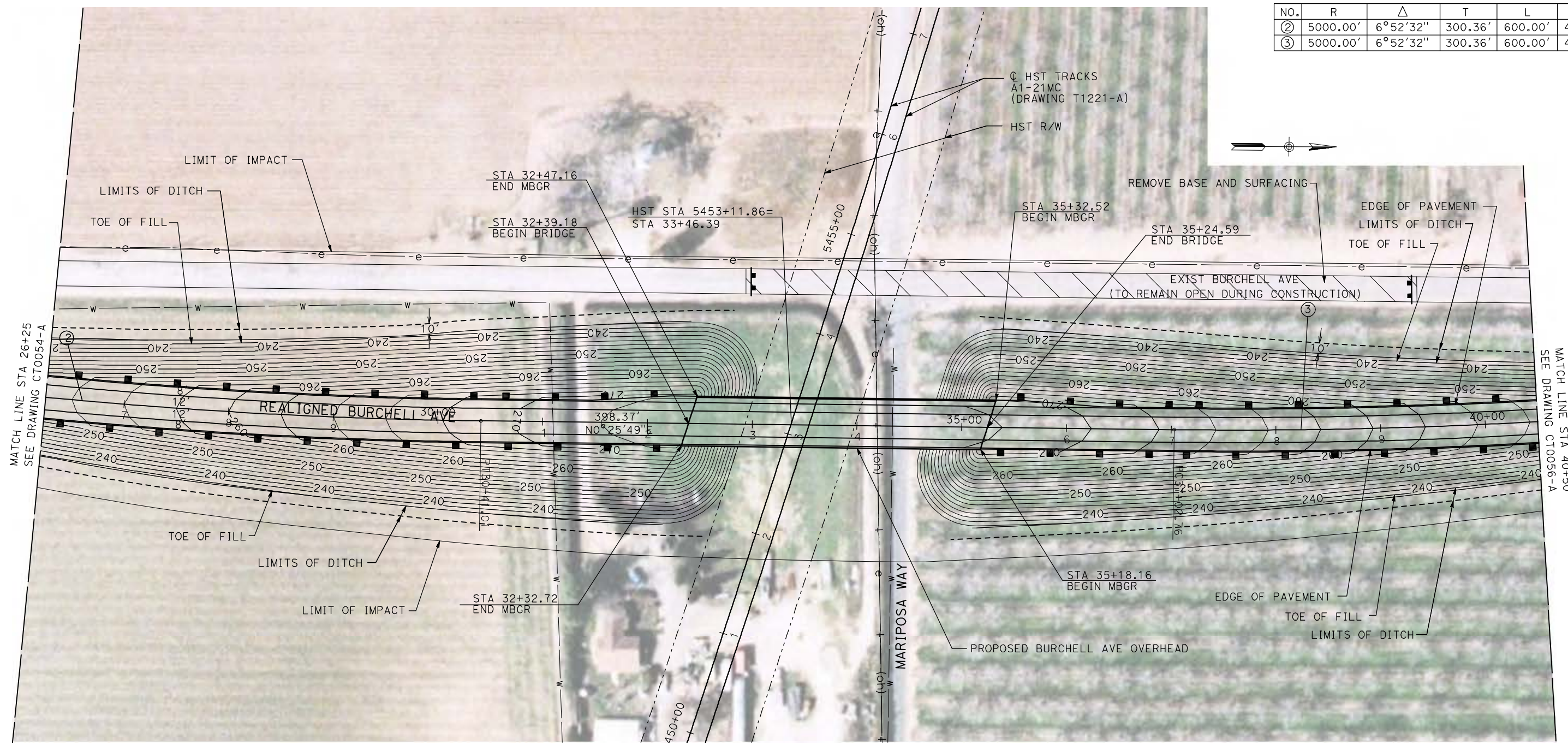


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL AVE
 LAYOUT
 SHEET 1 OF 3

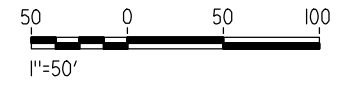
CONTRACT NO.
HST06-007
 DRAWING NO.
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 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:17:46 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0055-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1051-A THROUGH CT1053-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL AVE
 LAYOUT
 SHEET 2 OF 3

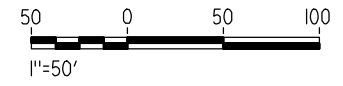
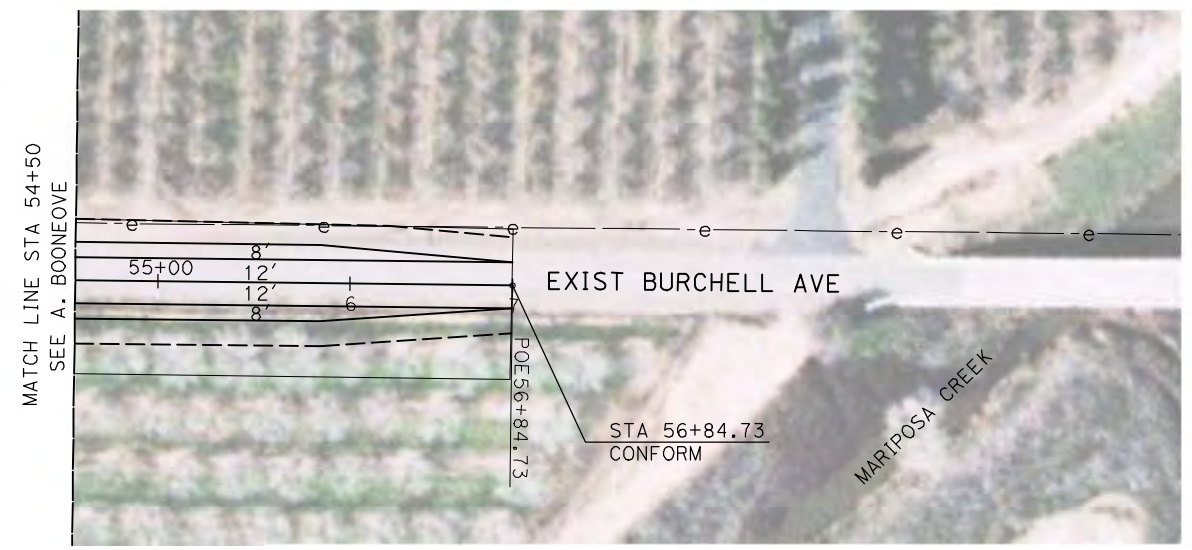
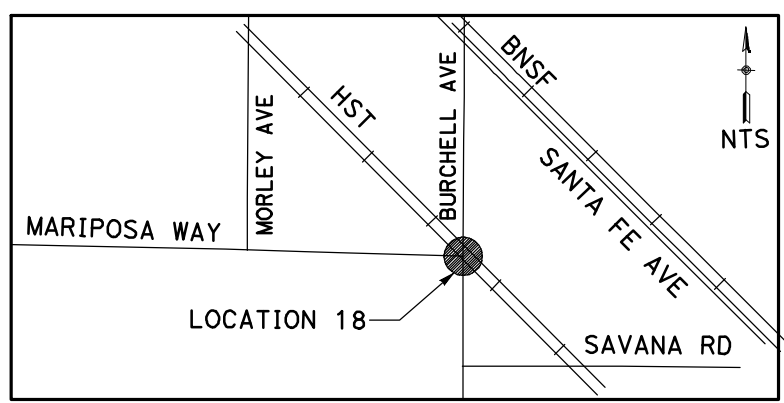
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0055-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:17:54 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0056-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1051-A THROUGH CT1053-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

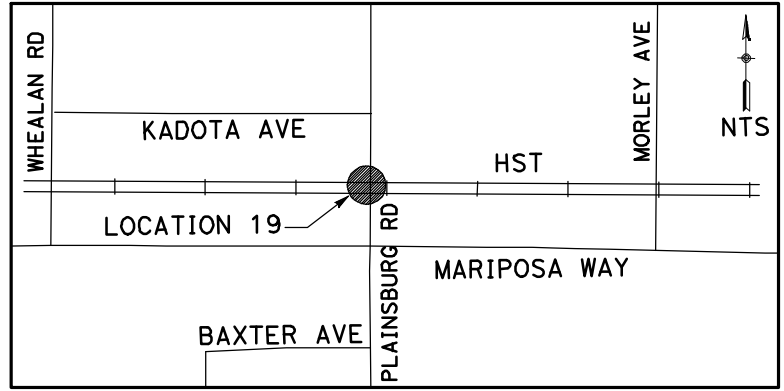
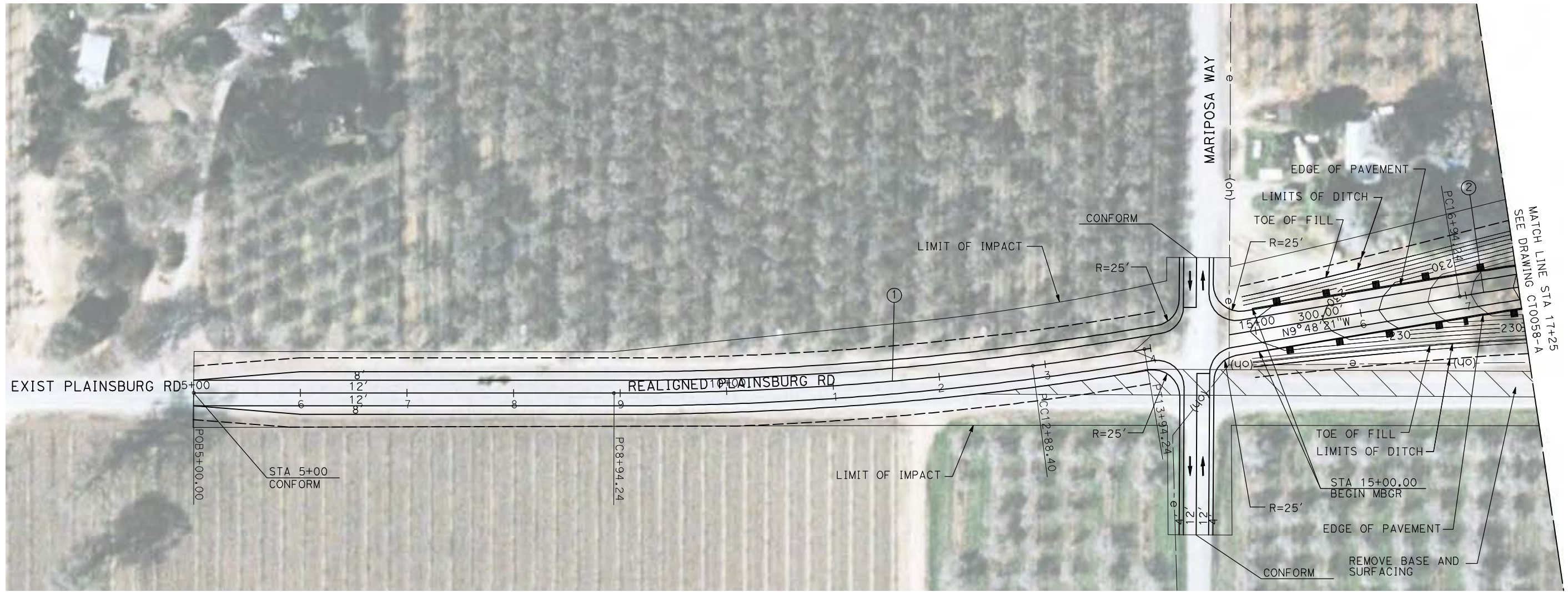


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL AVE
 LAYOUT
 SHEET 3 OF 3

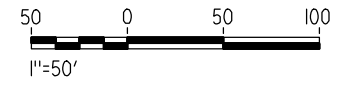
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HST06-007
 DRAWING NO.
CT0056-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:18:02 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0057-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1054-A THROUGH CT1056-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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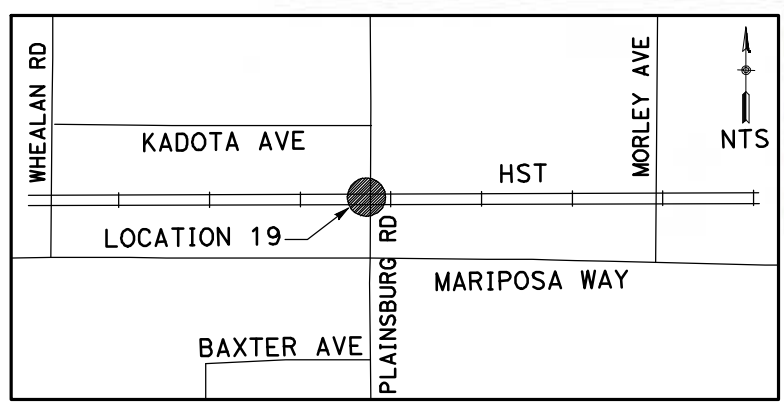
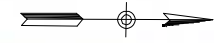
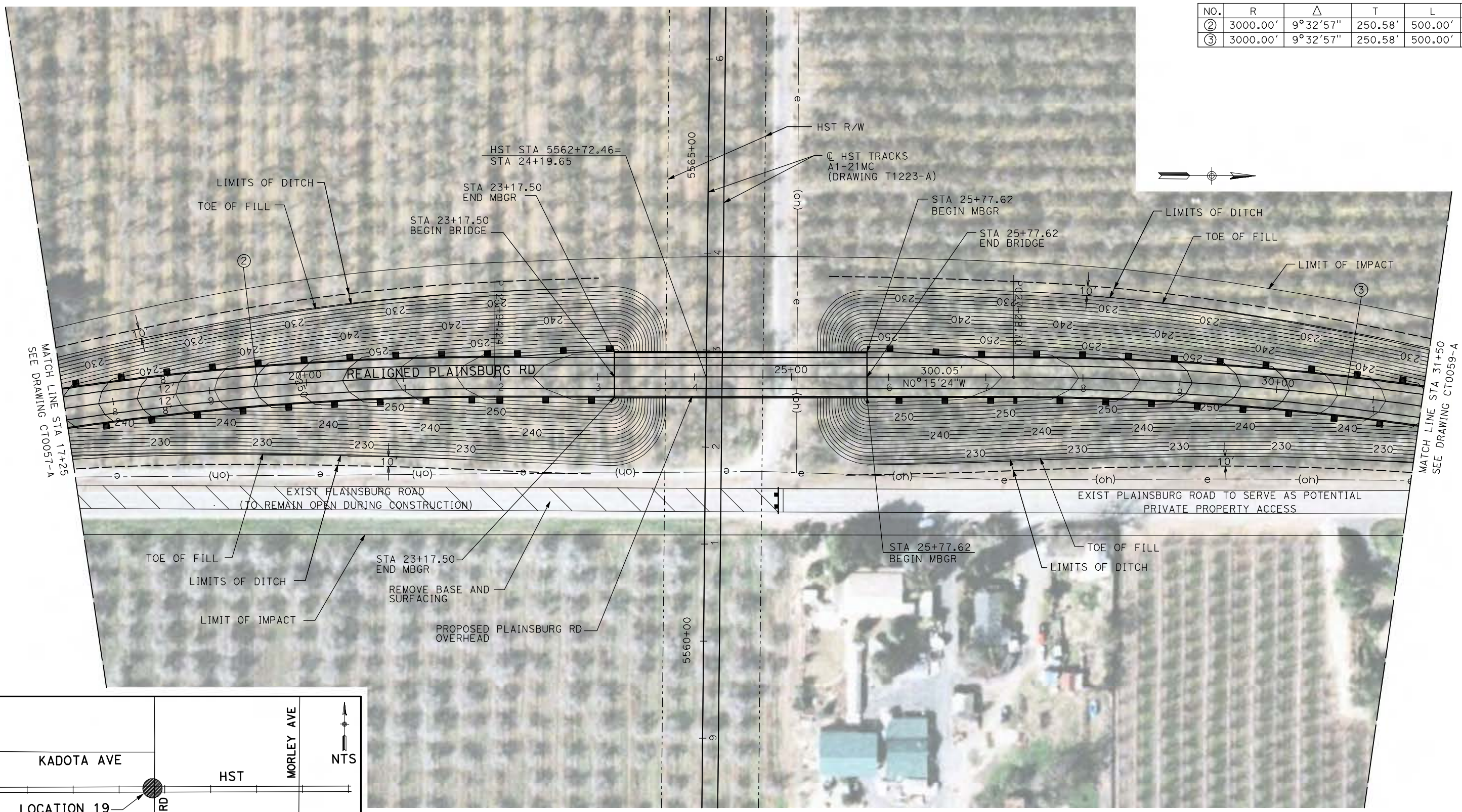
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 1 OF 3

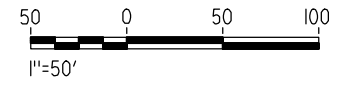
CONTRACT NO.
HST06-007
DRAWING NO.
CT0057-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:18:08 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0058-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1054-A THROUGH CT1056-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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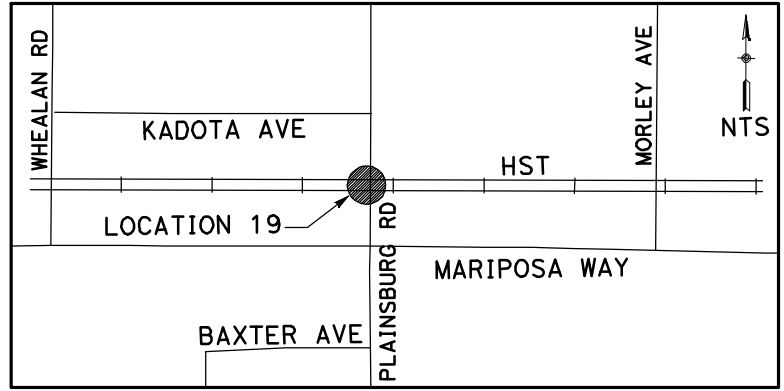
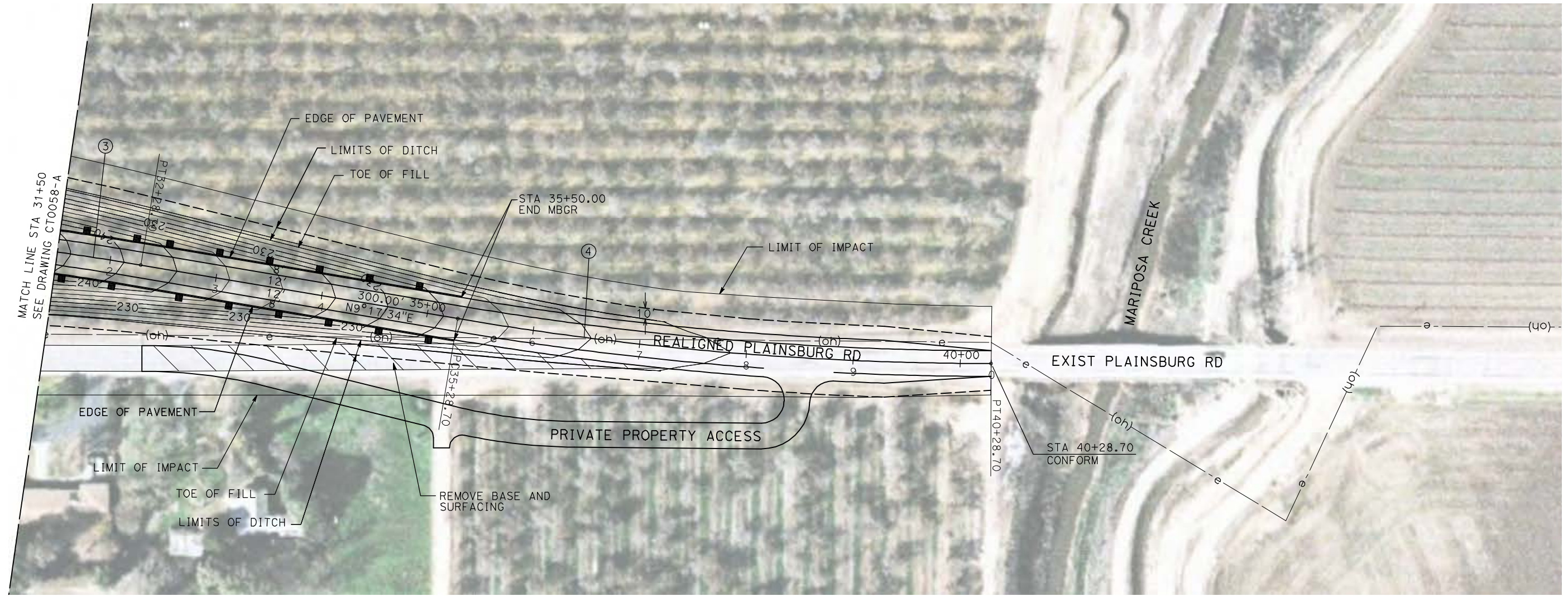
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 2 OF 3

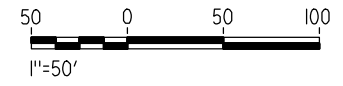
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HST06-007
DRAWING NO.
CT0058-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:18:16 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0059-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1054-A THROUGH CT1056-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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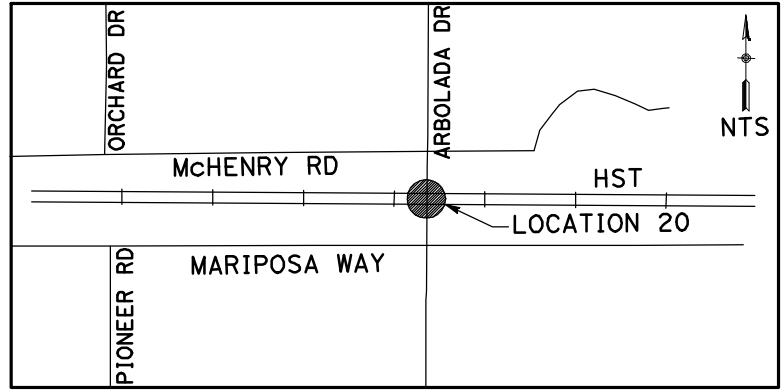
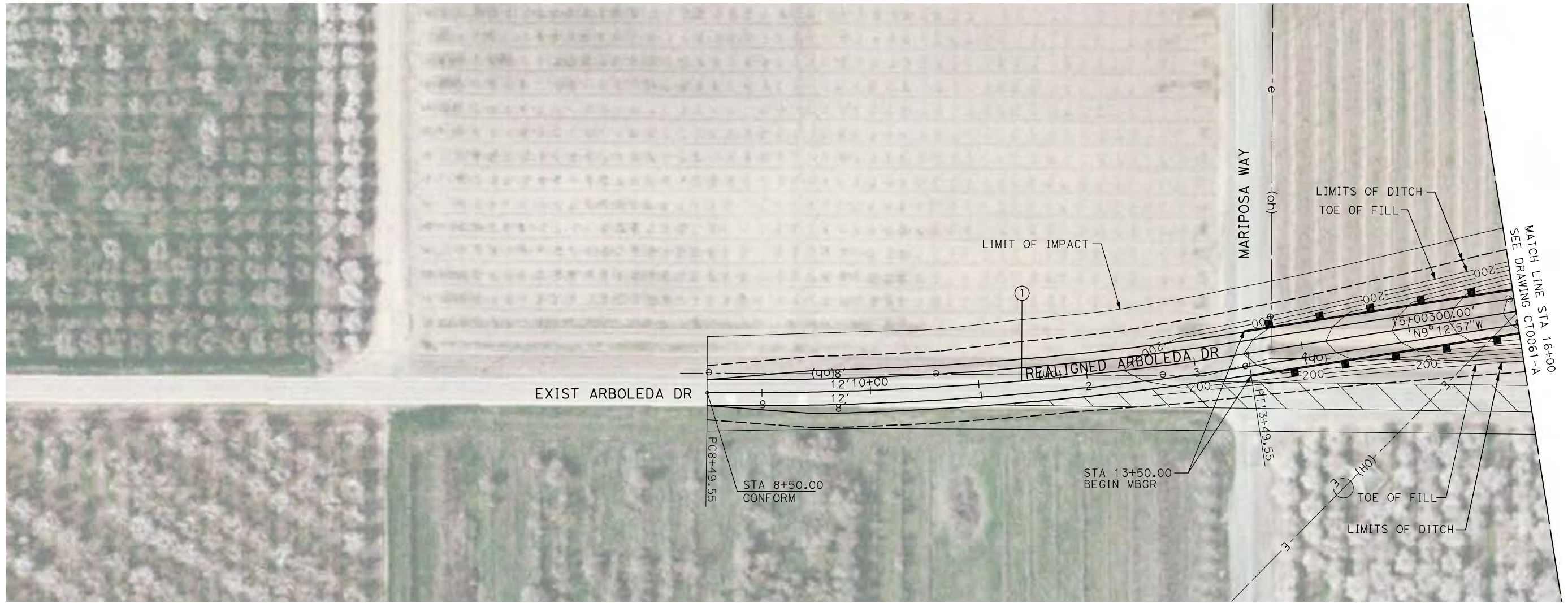


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 3 OF 3

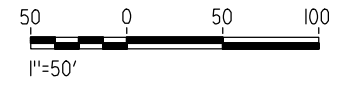
CONTRACT NO.
HST06-007
DRAWING NO.
CT0059-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:18:23 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0060-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1057-A THROUGH CT1059-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
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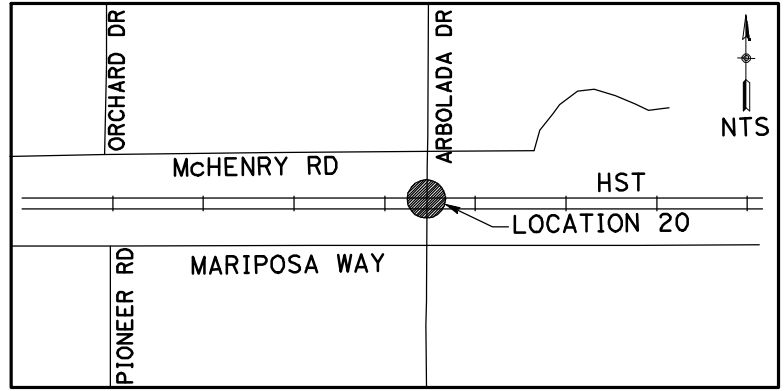
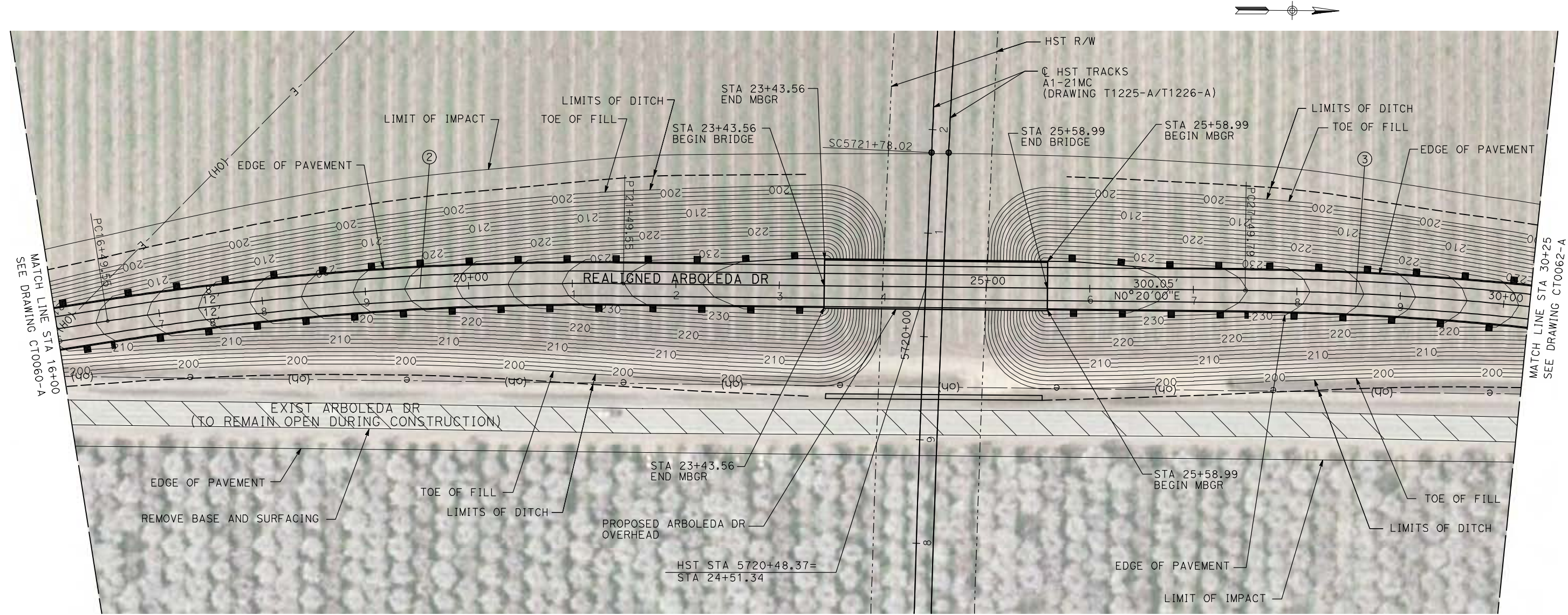


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. ARBOLEDA DR
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0060-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:18:30 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0061-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1057-A THROUGH CT1059-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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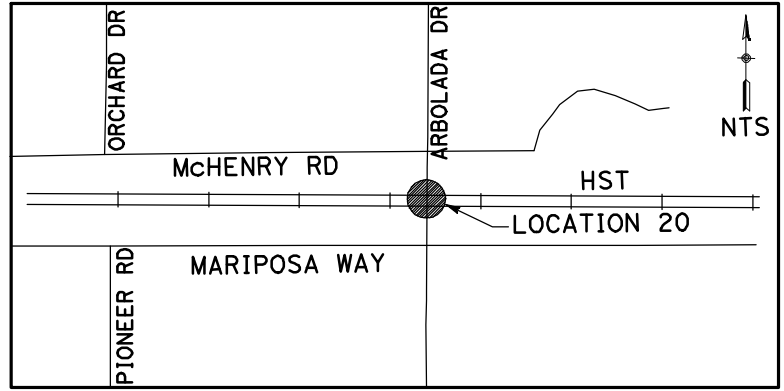
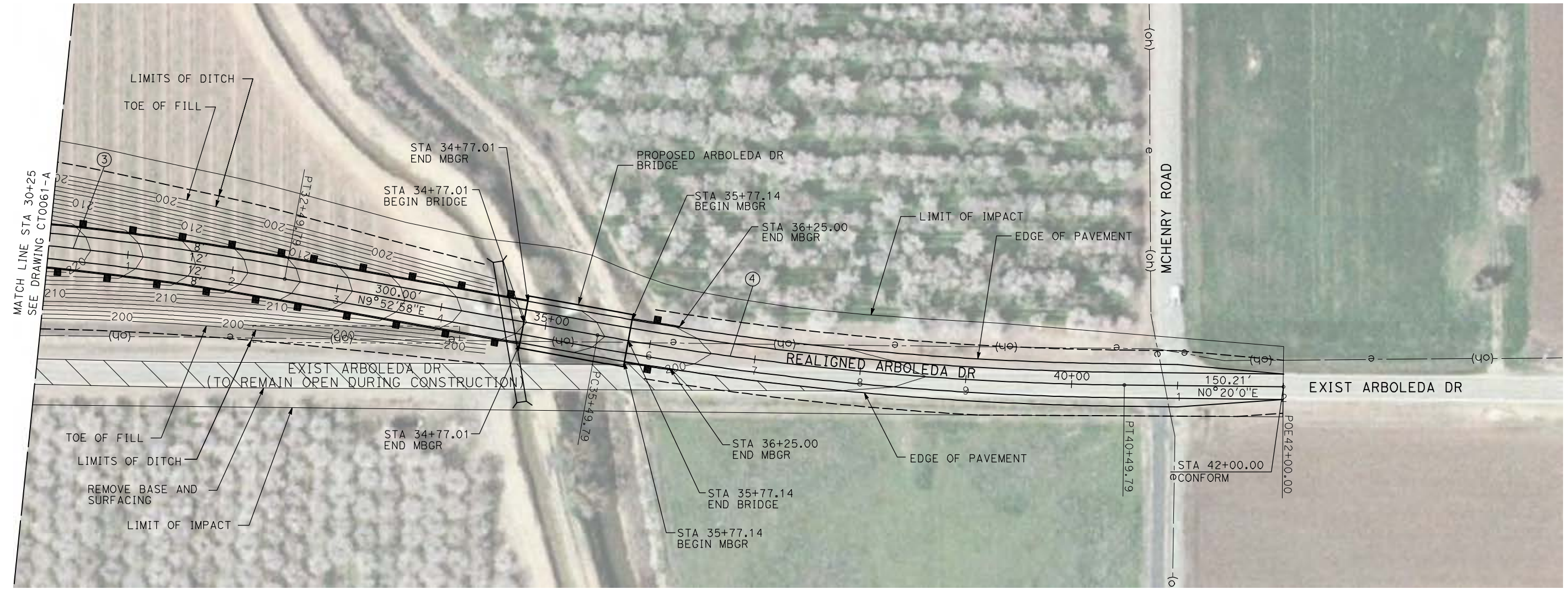
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. ARBOLEDA DR
LAYOUT
SHEET 2 OF 3

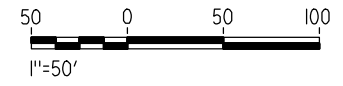
CONTRACT NO.
HST06-007
DRAWING NO.
CT0061-A
SCALE
AS SHOWN
SHEET NO.
OF

G:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\Common with Ave 21\MF-CT-0062-A.dgn 4/29/2011 2:18:38 PM

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1057-A THROUGH CT1059-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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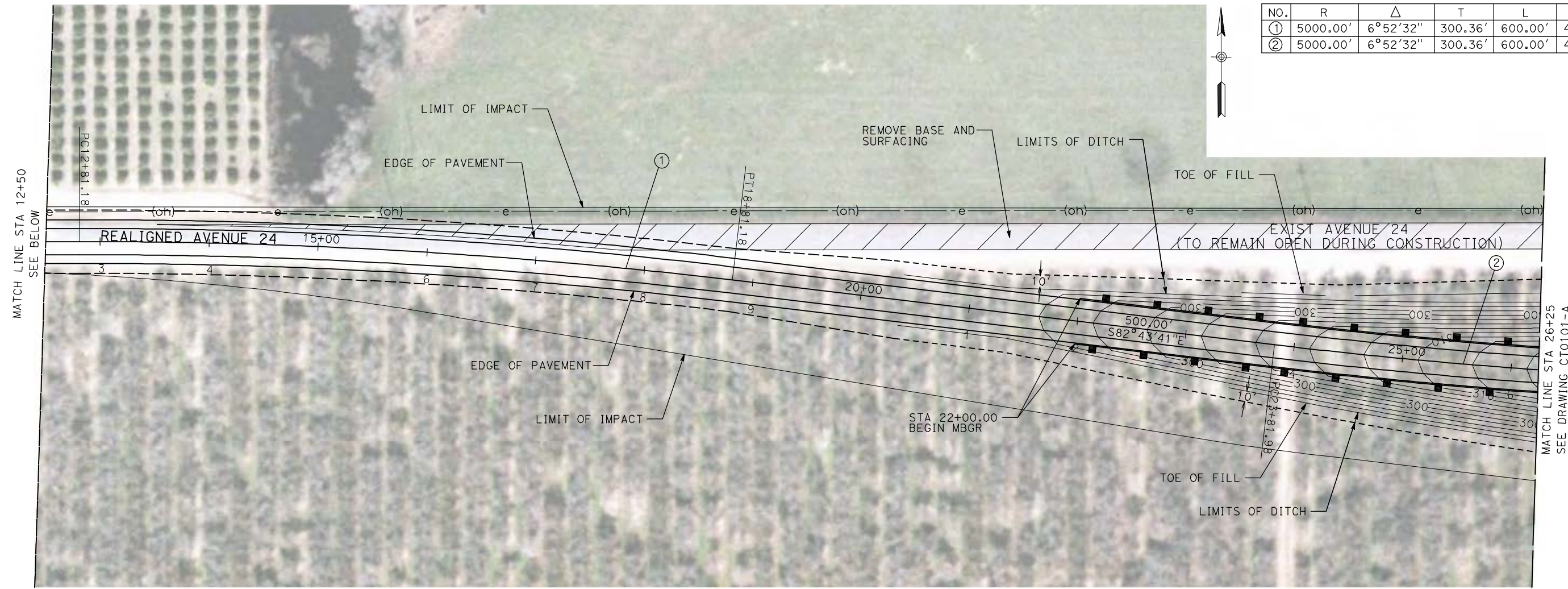
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. ARBOLEDA DR
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0062-A
SCALE
AS SHOWN
SHEET NO.
OF

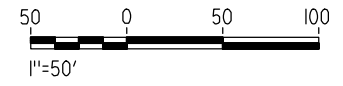
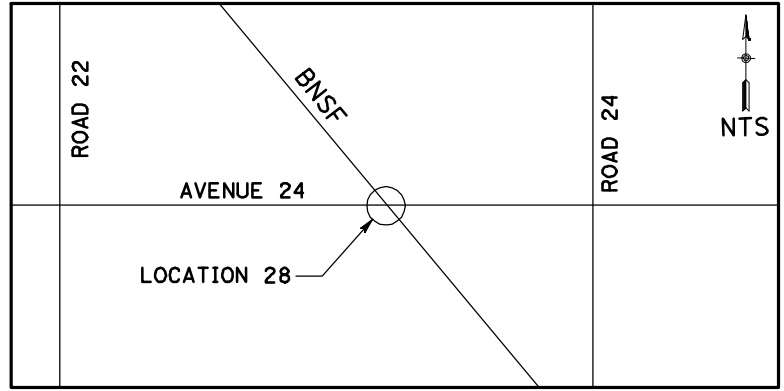
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CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1100-A THROUGH CT1100-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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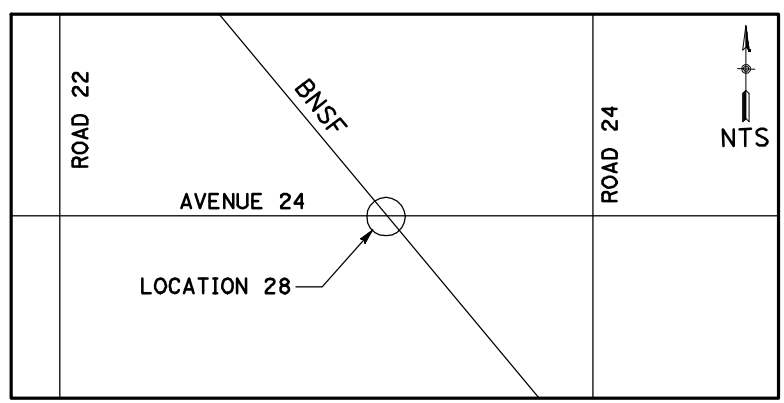
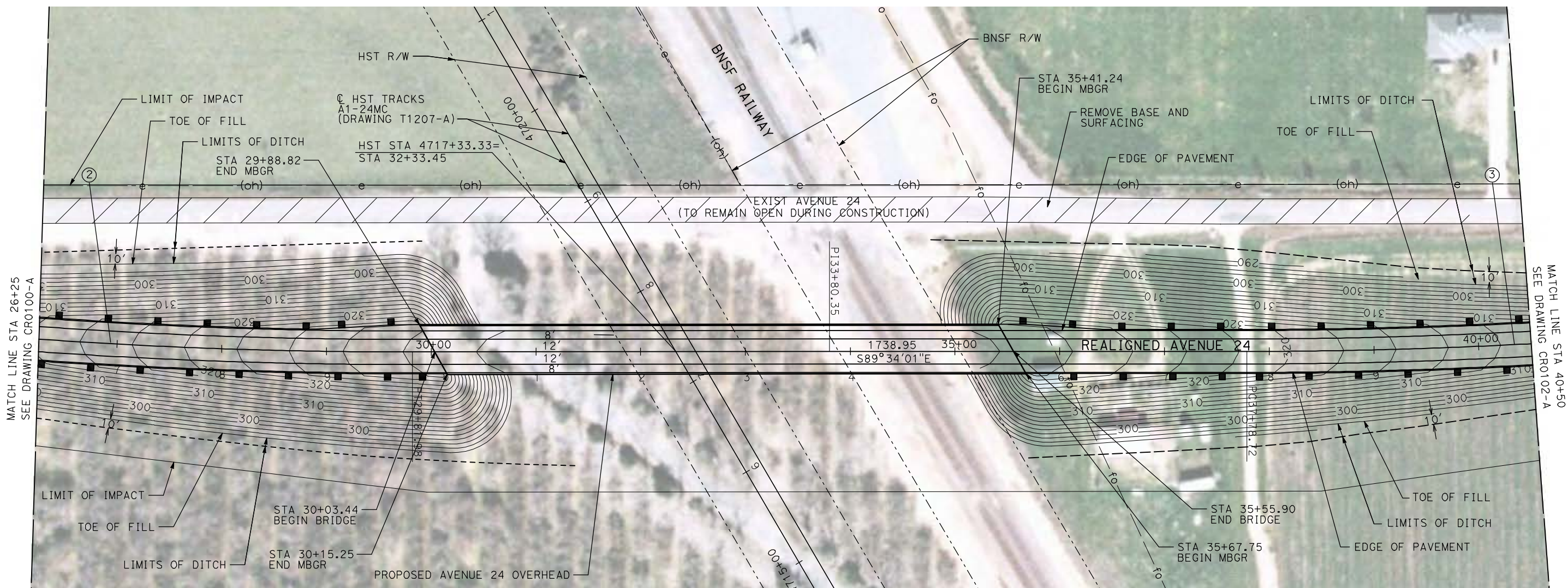
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - AVENUE 24
LAYOUT
SHEET 1 OF 3

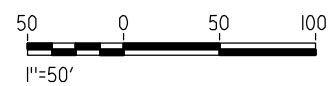
CONTRACT NO.
HST06-007
DRAWING NO.
CT0100-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:18:52 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0101-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1100-A THROUGH CT1102-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

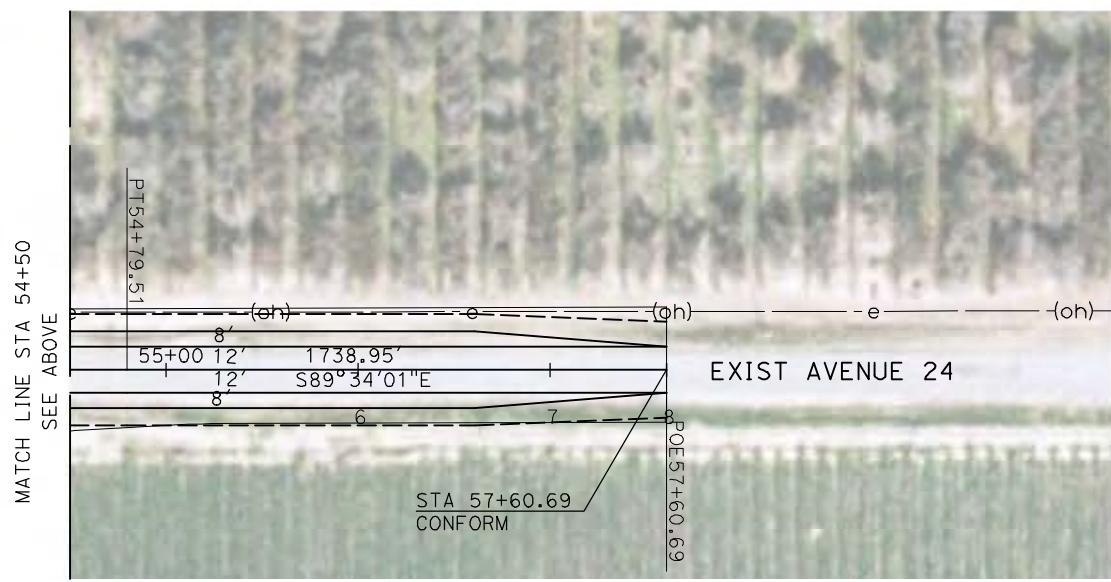
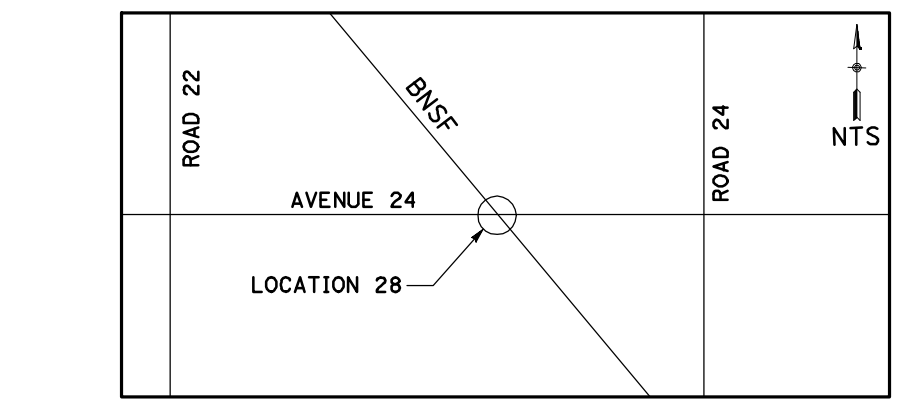
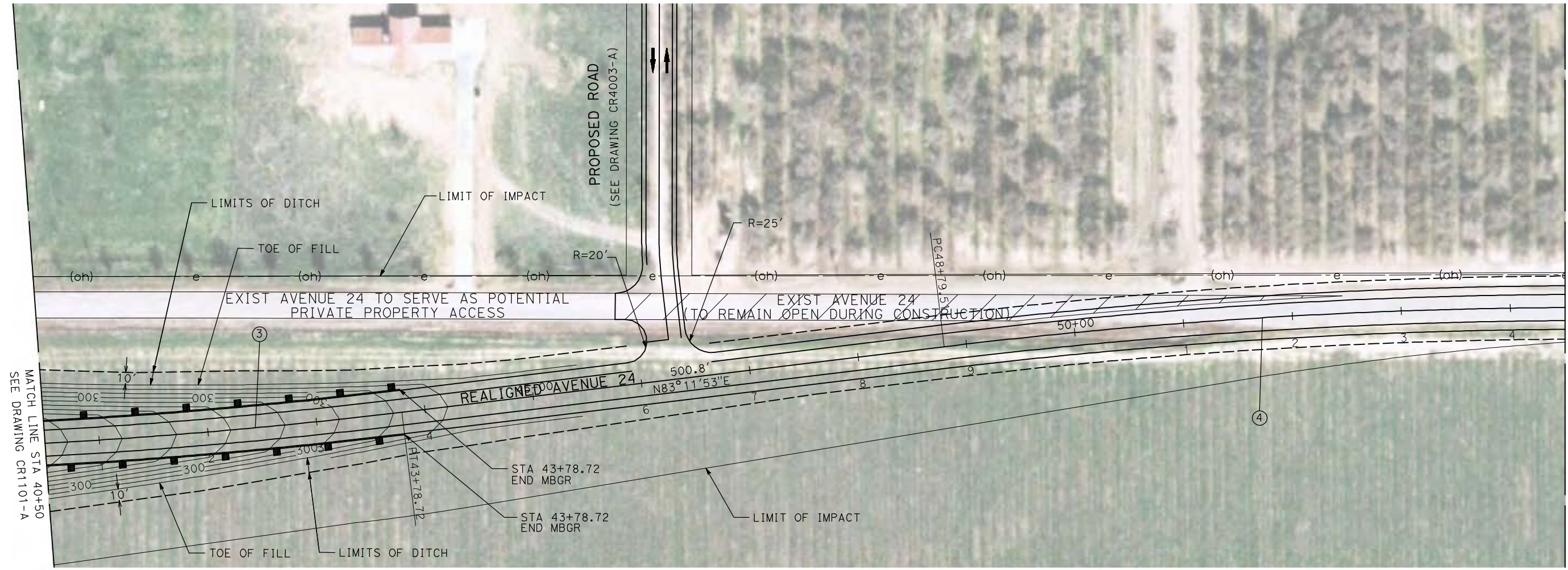
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - AVENUE 24
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0101-A
SCALE
AS SHOWN
SHEET NO.
OF

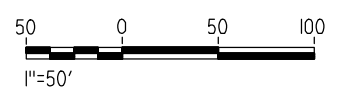
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CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1100-A THROUGH CT1102-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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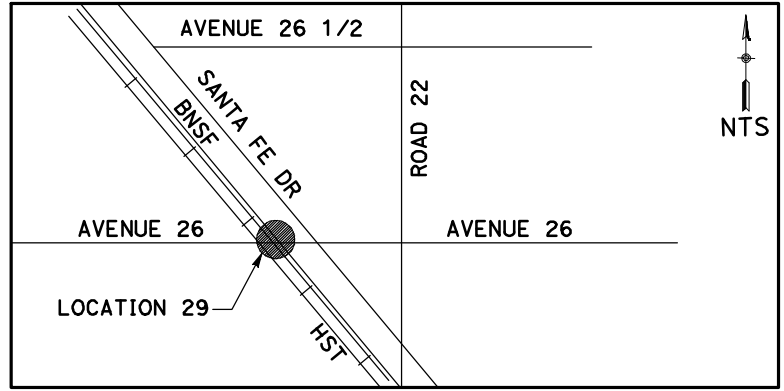
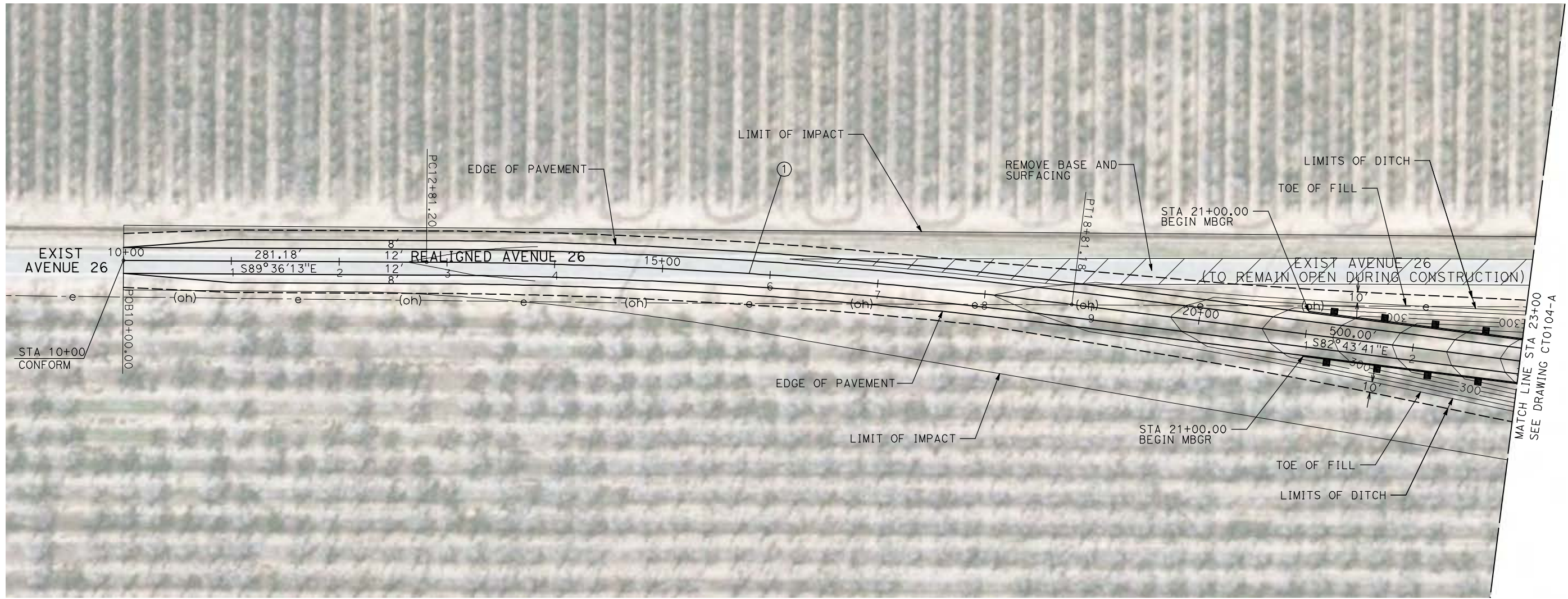
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - AVENUE 24
LAYOUT
SHEET 3 OF 3

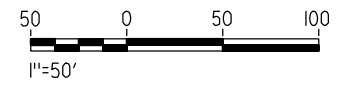
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HST06-007
DRAWING NO.
CR0102-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:19:06 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0103-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1103-A THROUGH CT1106-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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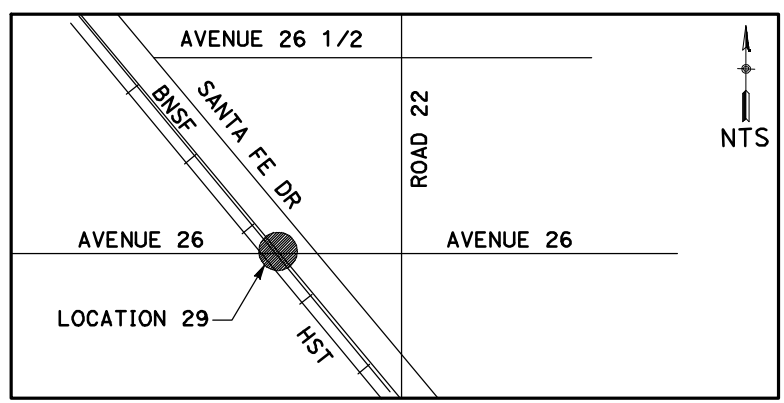
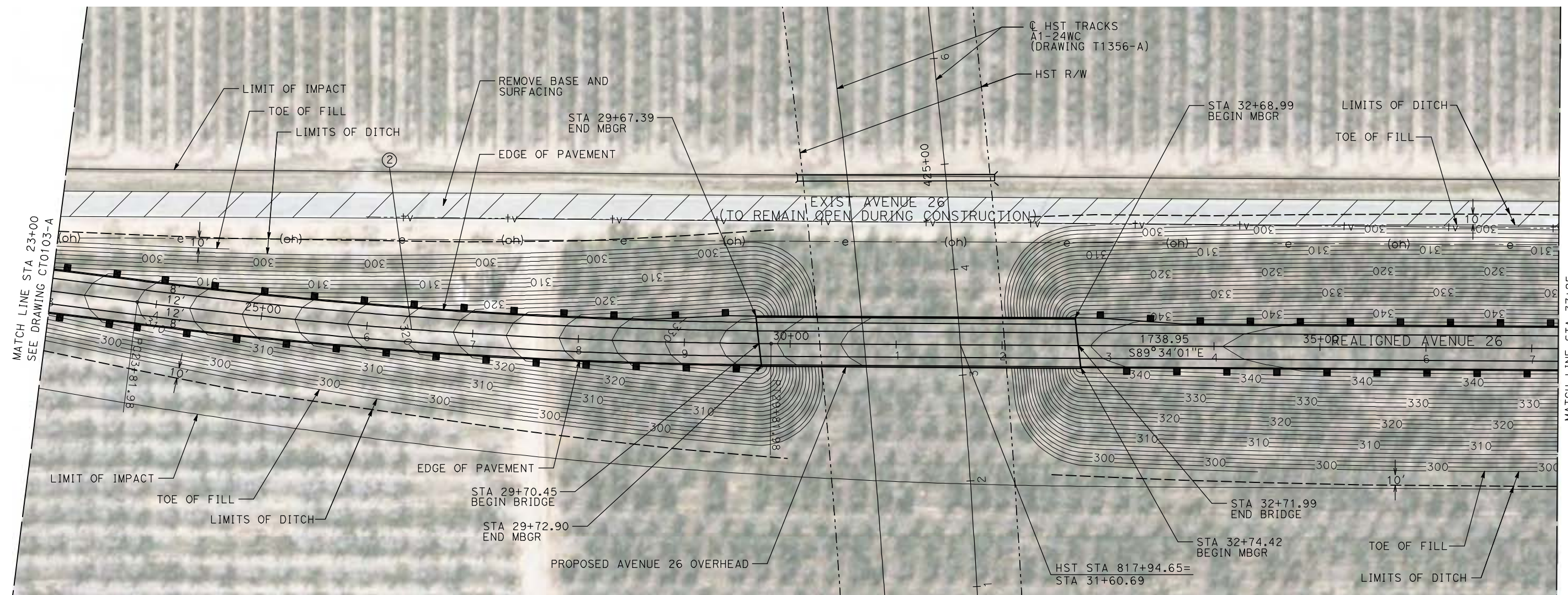
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 26
LAYOUT
SHEET 1 OF 4

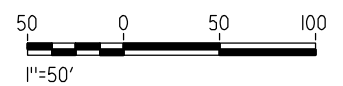
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DRAWING NO.
CT0103-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:19:12 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0104-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1103-A THROUGH CT1106-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 H. PHAN
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
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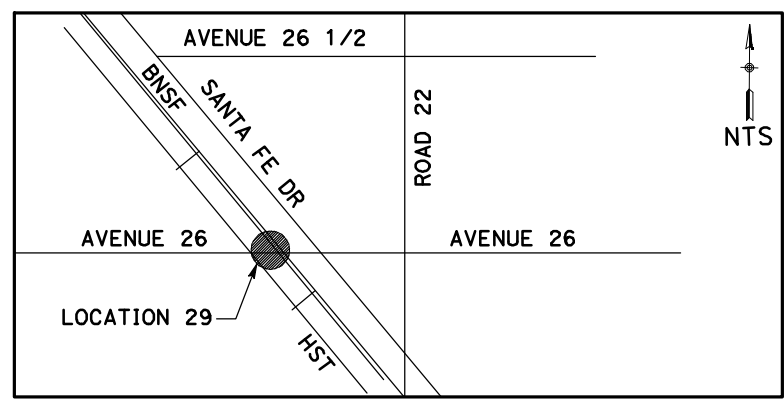
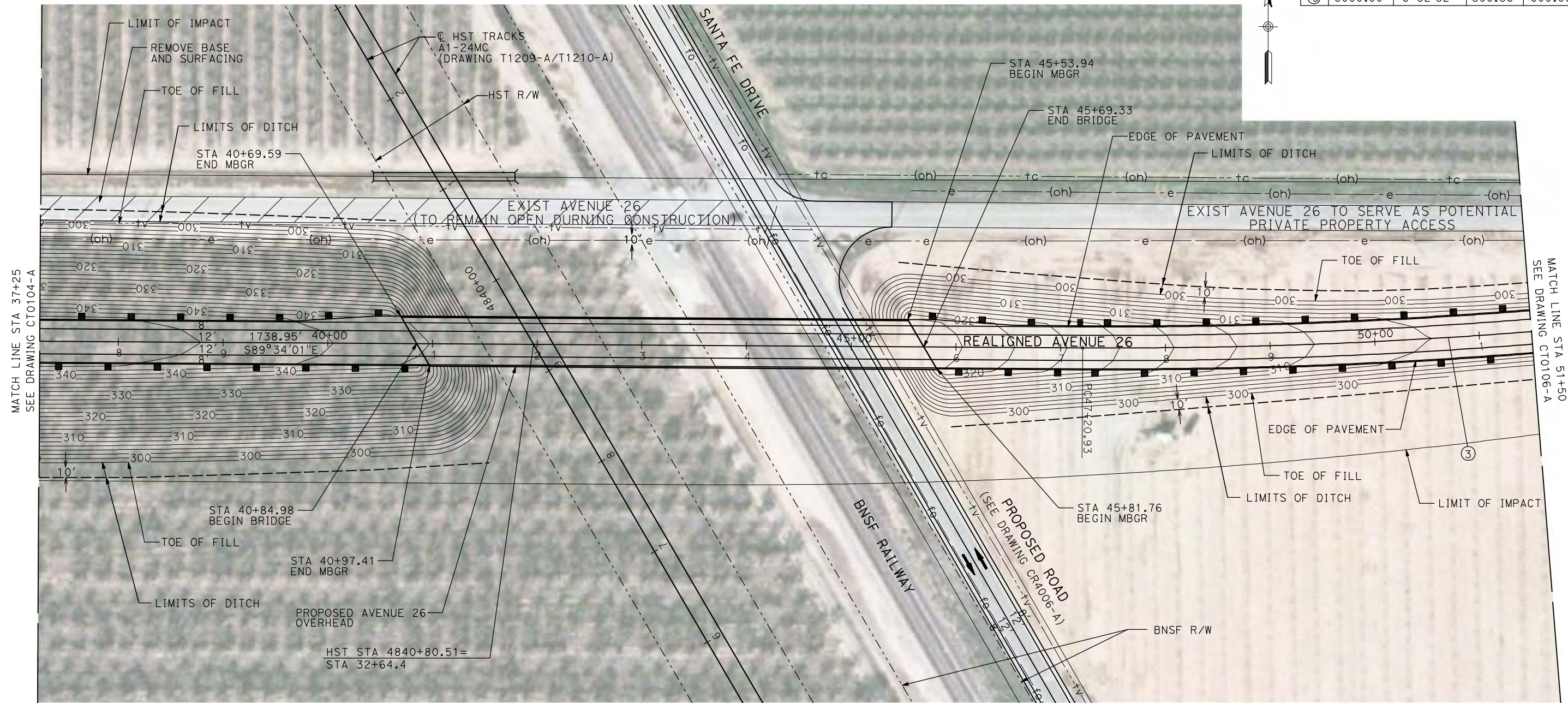


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 26
 LAYOUT
 SHEET 2 OF 4

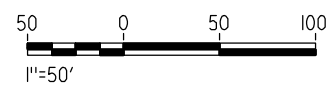
CONTRACT NO.
 HST06-007
 DRAWING NO.
 CT0104-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

4/29/2011 2:19:19 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0105-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1103-A THROUGH CT1106-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 26
LAYOUT
SHEET 3 OF 4

CONTRACT NO.
HST06-007

DRAWING NO.
CT0105-A

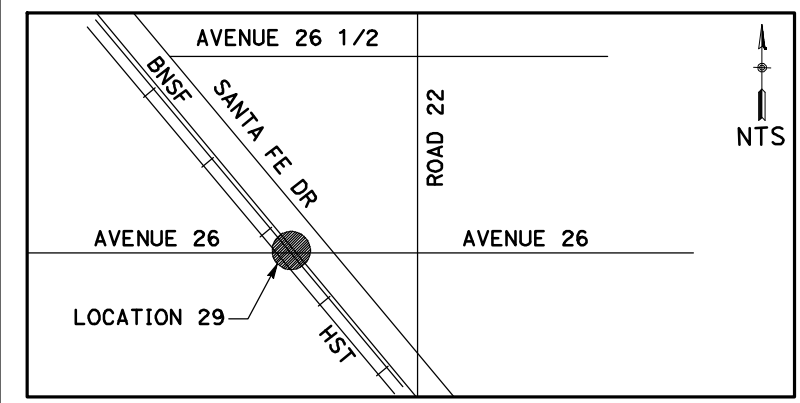
SCALE
AS SHOWN

SHEET NO.
OF

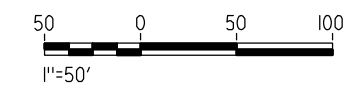
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CURVE DATA

NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1103-A THROUGH CT1106-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

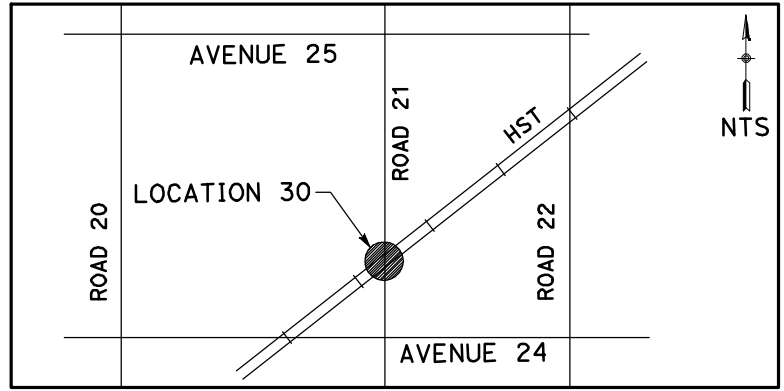
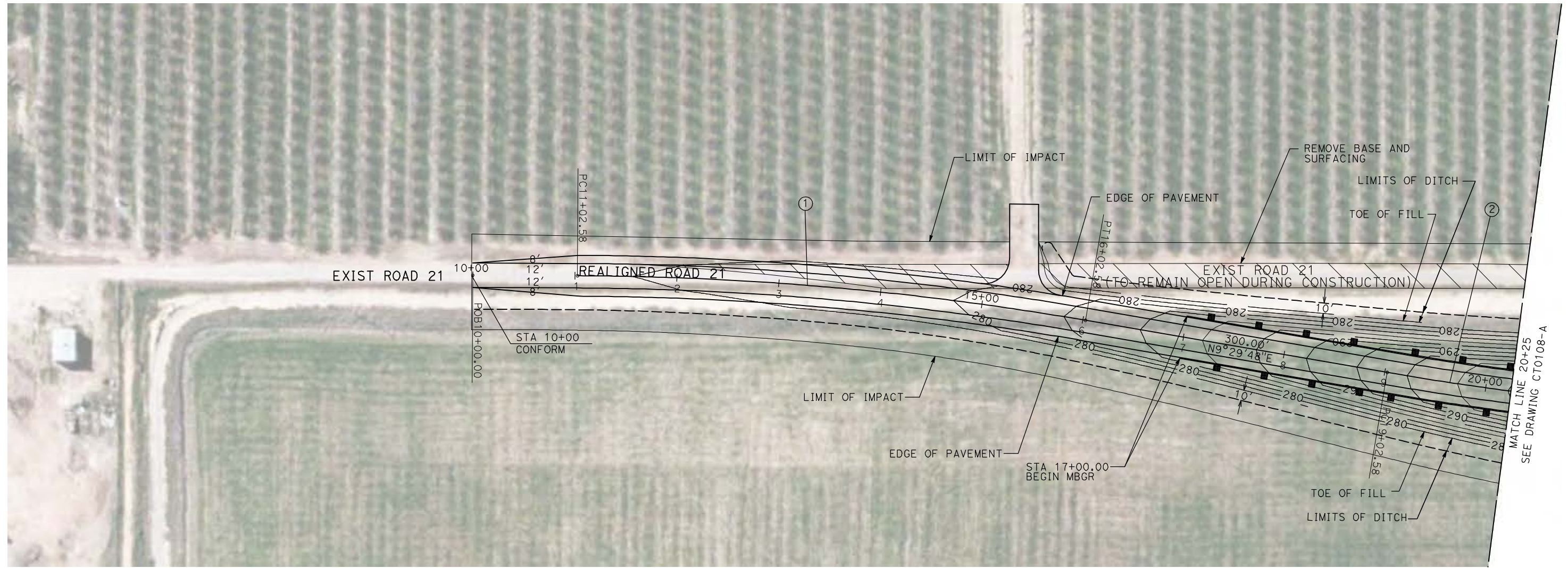


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 26
 LAYOUT
 SHEET 4 OF 4

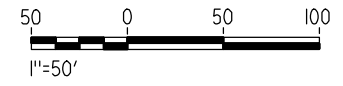
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0106-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:19:33 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0107-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1107-A THROUGH CT1109-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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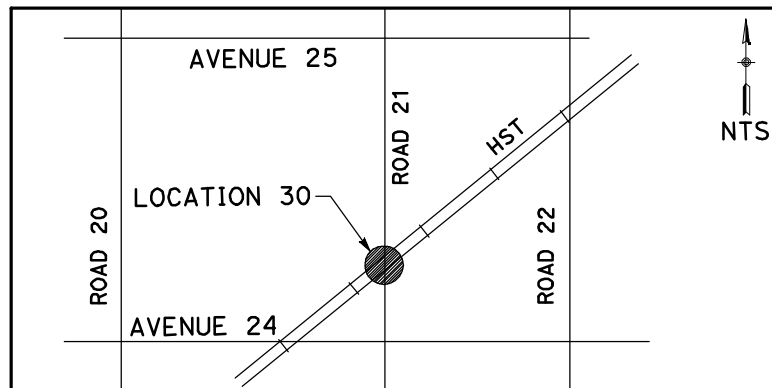
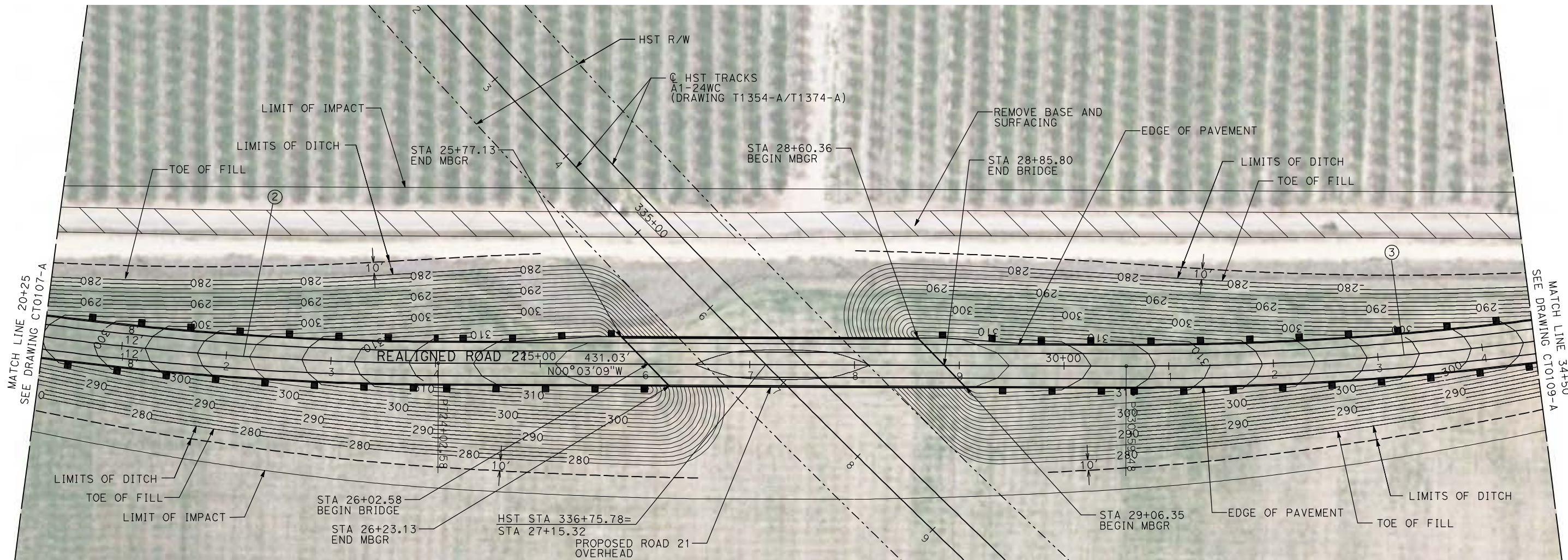
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE CONNECTION - AVE 24 WYE
GRADE SEPARATION - ROAD 21
LAYOUT
SHEET 1 OF 3

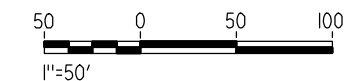
CONTRACT NO.
HST06-007
DRAWING NO.
CT0107-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1107-A THROUGH CT1109-A.



4/29/2011 2:19:40 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0108-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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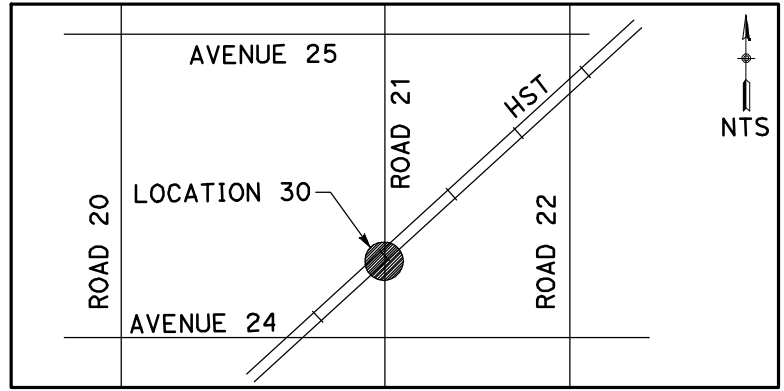
**NOT FOR
CONSTRUCTION**



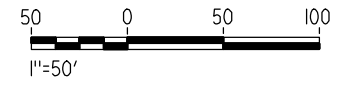
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF WYE CONNECTION - AVE 24 WYE
GRADE SEPARATION - ROAD 21
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0108-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1107-A THROUGH CT1109-A.



4/29/2011 2:19:49 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\11-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0109-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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J. ZANDIAN
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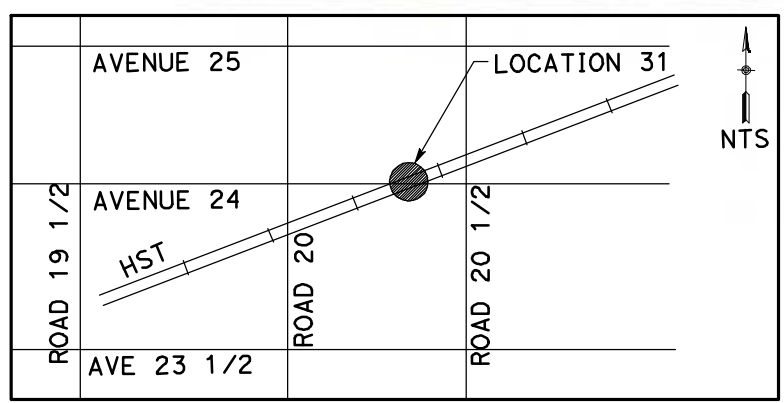
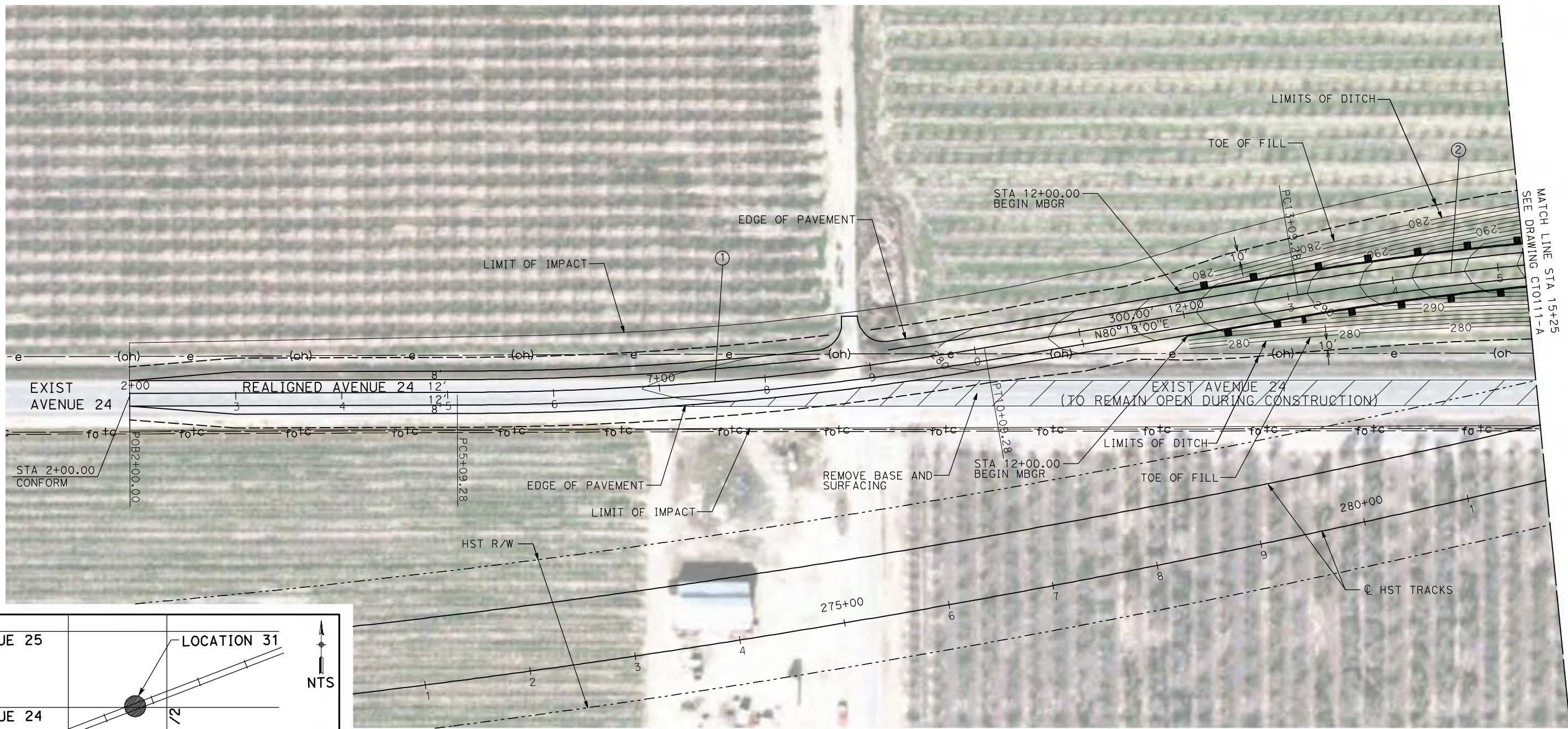
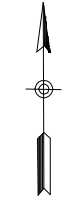


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF WYE CONNECTION - AVE 24 WYE
 GRADE SEPARATION - ROAD 21
 LAYOUT
 SHEET 3 OF 3

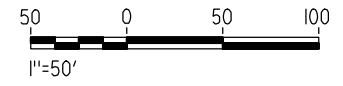
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HST06-007
 DRAWING NO.
CT0109-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
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②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1110-A THROUGH CT1112-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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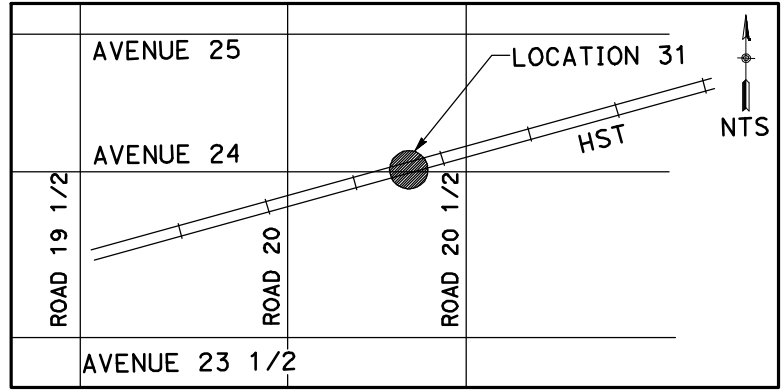
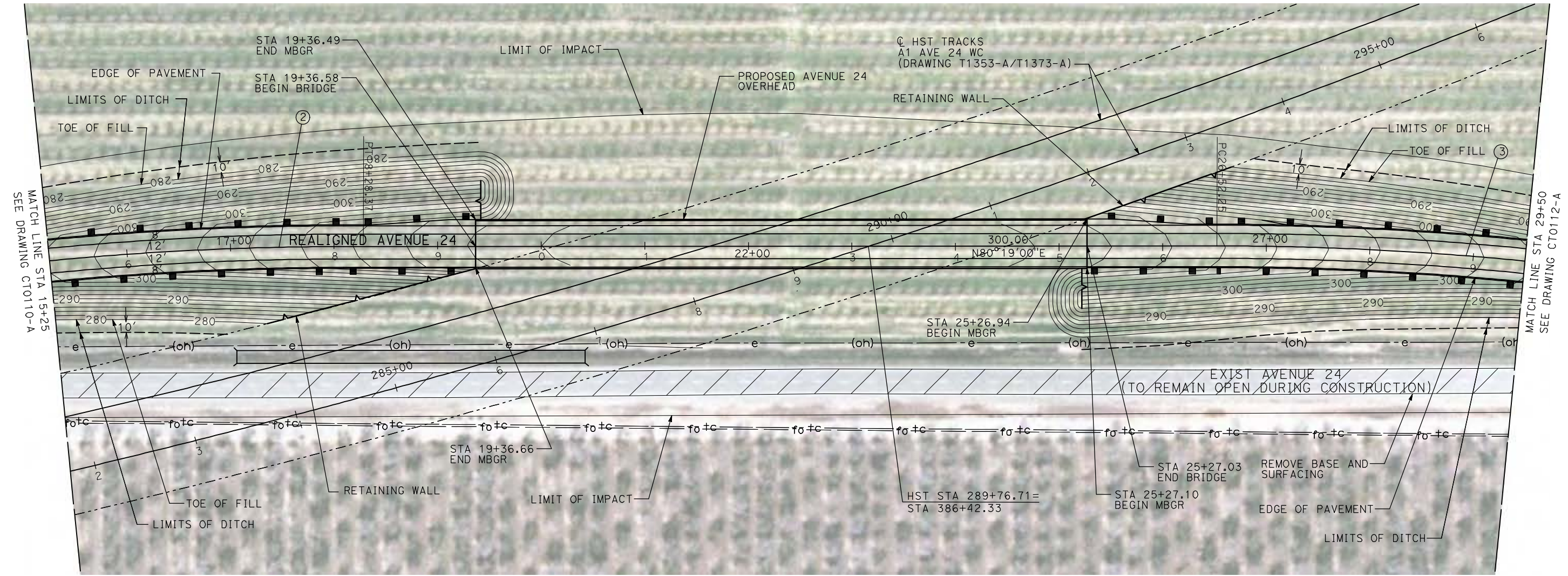
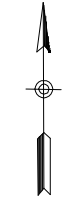
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE CONNECTION - AVE 24 WYE
GRADE SEPARATION - AVENUE 24
LAYOUT
SHEET 1 OF 3

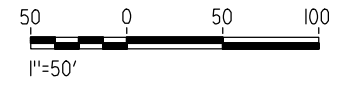
CONTRACT NO.
HST06-007
DRAWING NO.
CT0110-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
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③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1110-A THROUGH CT1112-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
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04/29/2011

RECORD SET
15% DESIGN
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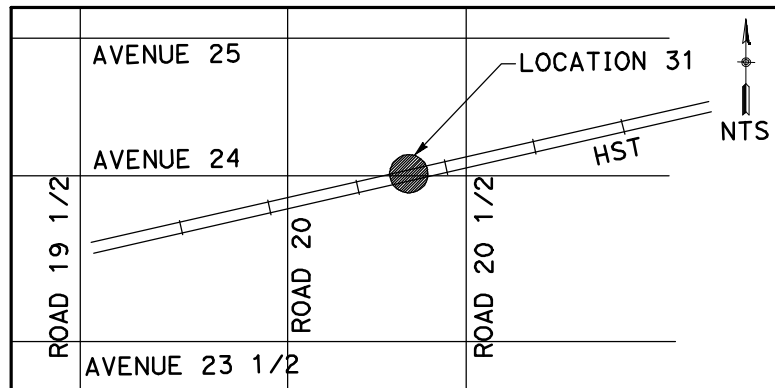


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF WYE CONNECTION - AVE 24 WYE
 GRADE SEPARATION - AVENUE 24
 LAYOUT
 SHEET 2 OF 3

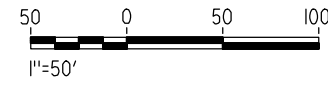
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AS SHOWN
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OF

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CURVE DATA					
NO.	R	Δ	T	L	V
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④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1110-A THROUGH CT1112-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
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04/29/2011

RECORD SET
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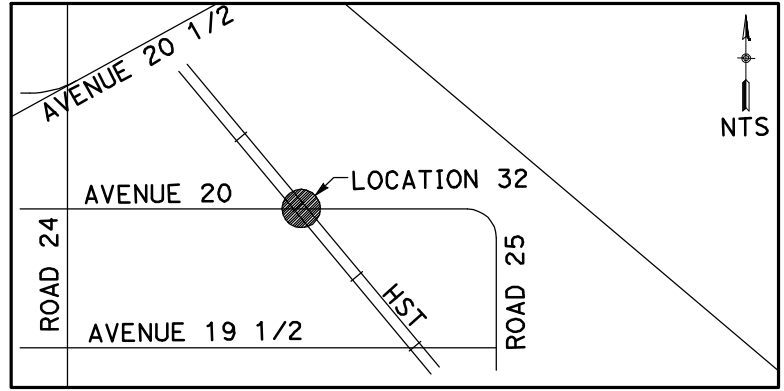
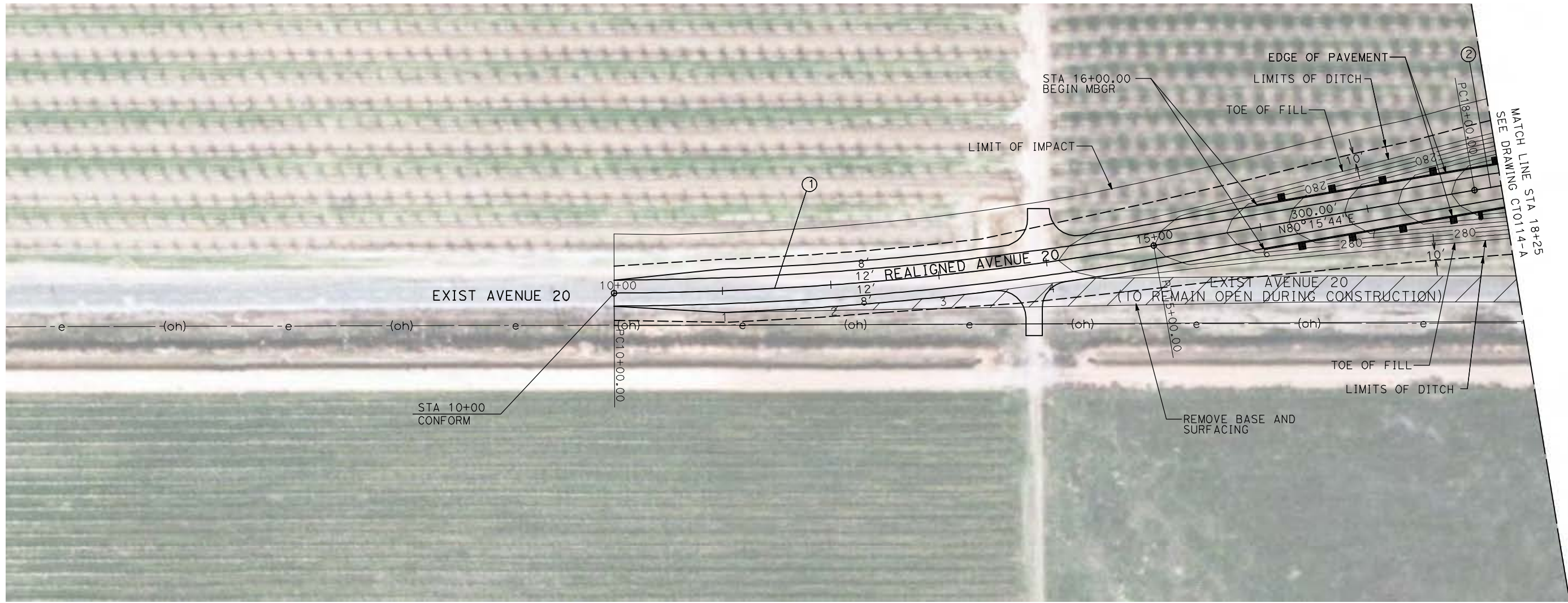
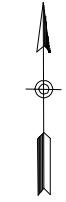


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE CONNECTION - AVE 24 WYE
GRADE SEPARATION - AVENUE 24
LAYOUT
SHEET 3 OF 3

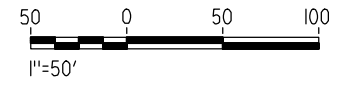
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HST06-007
DRAWING NO.
CT0112-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1113-A THROUGH CT1115-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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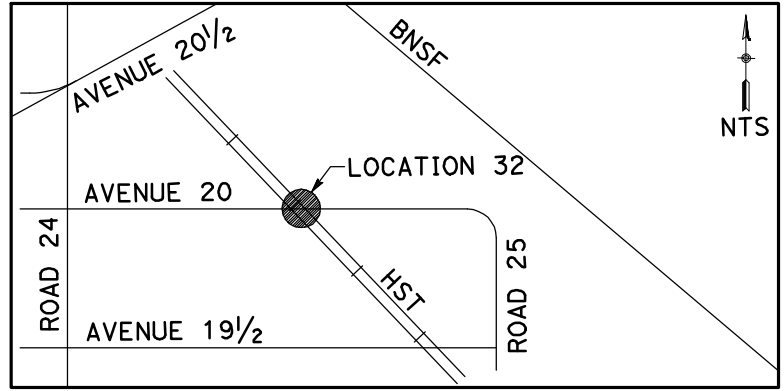
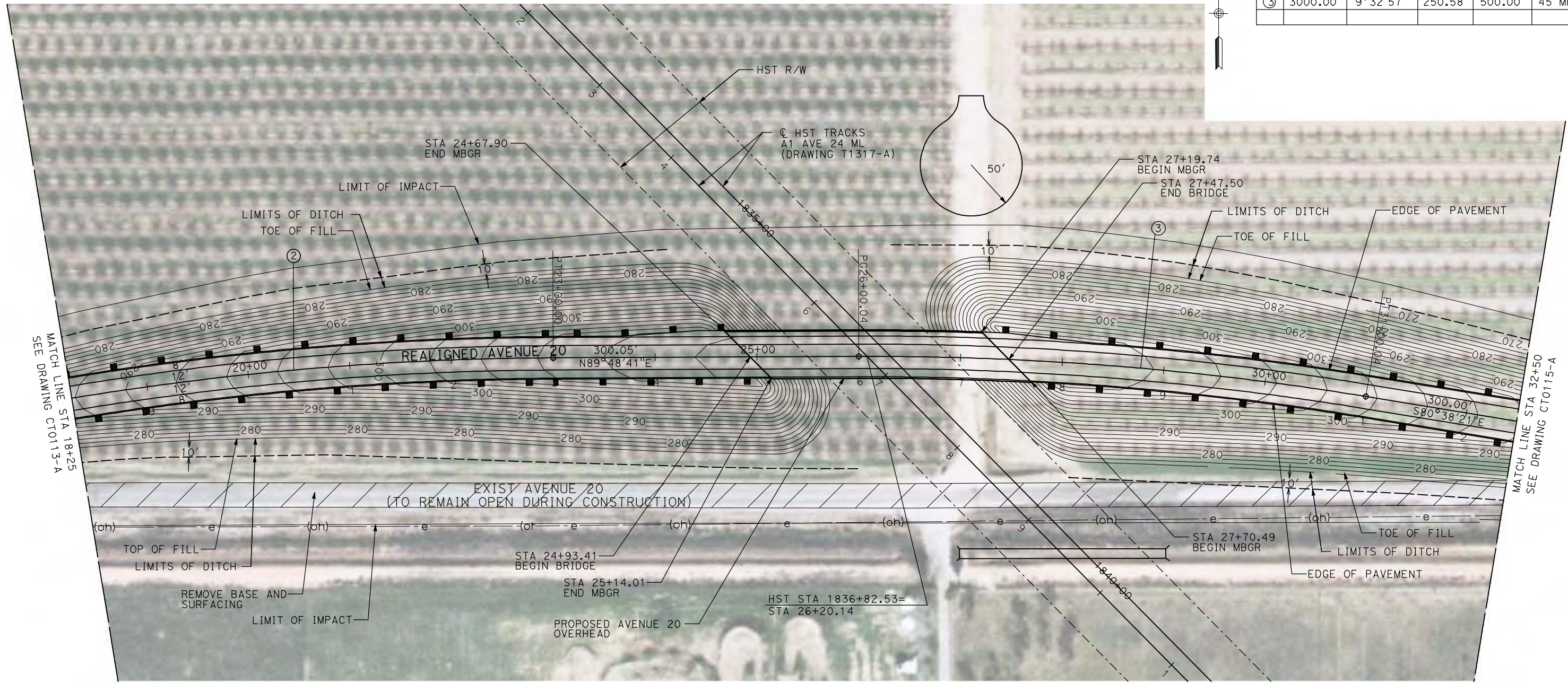


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 20
 LAYOUT
 SHEET 1 OF 3

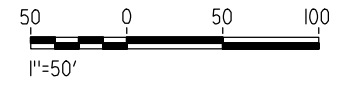
CONTRACT NO.
 HST06-007
 DRAWING NO.
 CT0113-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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CURVE DATA					
NO.	R	Δ	T	L	V
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③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1113-A THROUGH CT1115-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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R. GIBSON
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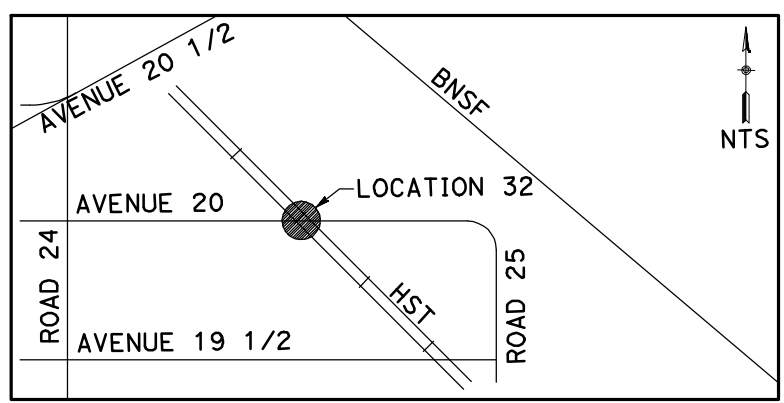
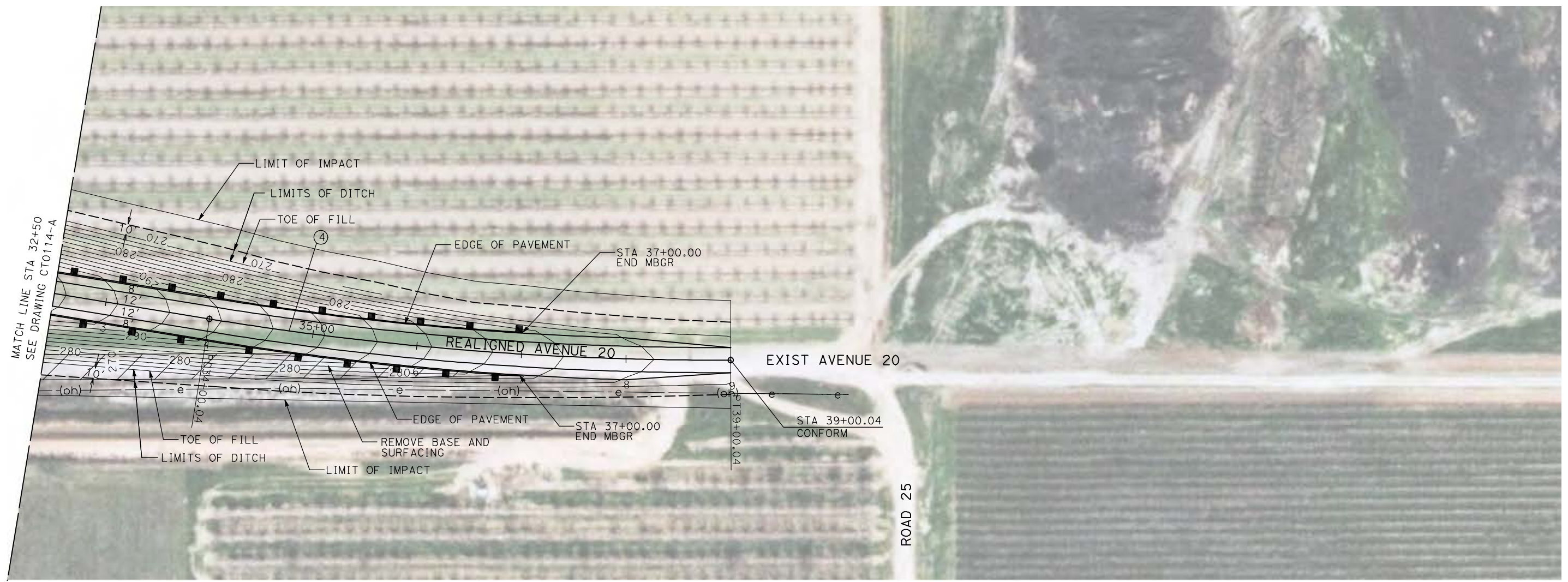
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 20
 LAYOUT
 SHEET 2 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0114-A
 SCALE
AS SHOWN
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OF

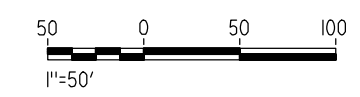
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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1113-A THROUGH CT1115-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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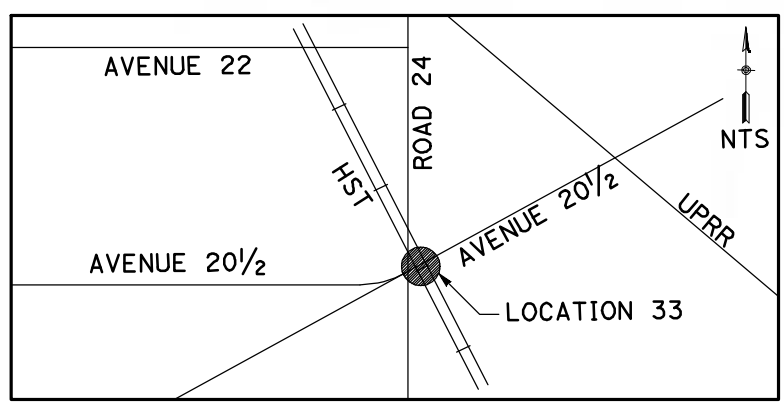
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 20
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0115-A
SCALE
AS SHOWN
SHEET NO.
OF

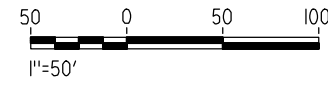
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FOR ROAD 24 PLAN
SEE DRAWING CT0119-A

CURVE DATA					
NO.	R	Δ	T	V	
①	3000.00'	22°33'32"	598.34'	1181.18'	45 MPH
②	3000.00'	22°33'32"	598.34'	1181.18'	45 MPH
⑤	3000.00'	22°33'32"	598.34'	1181.18'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1116-A THROUGH CT1118-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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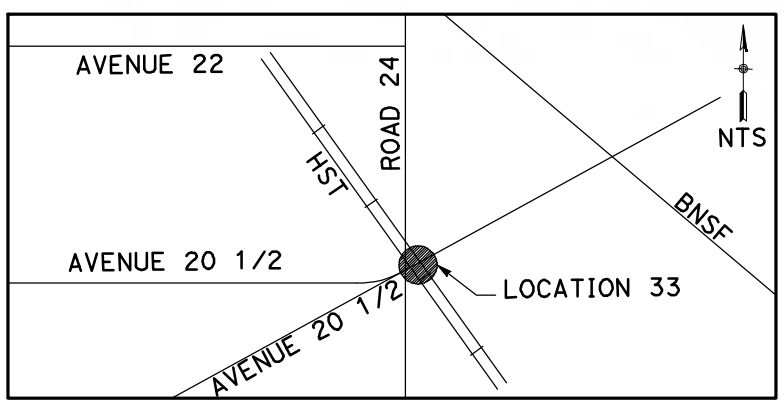
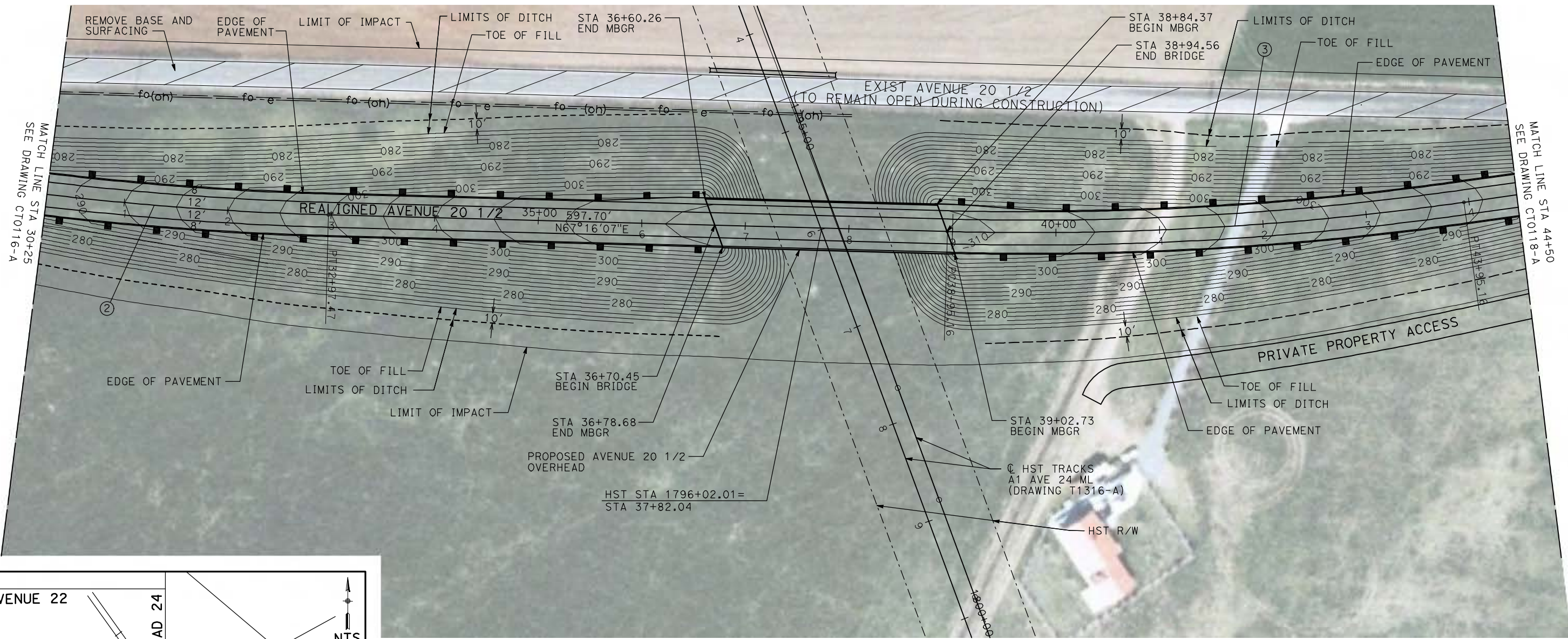
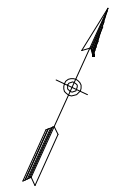
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 20 1/2
LAYOUT
SHEET 1 OF 3

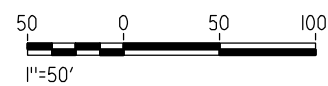
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DRAWING NO.
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SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:20:42 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0117-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	22°33'32"	598.34'	1181.18'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
⑤	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1116-A THROUGH CT1118-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
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CONSTRUCTION

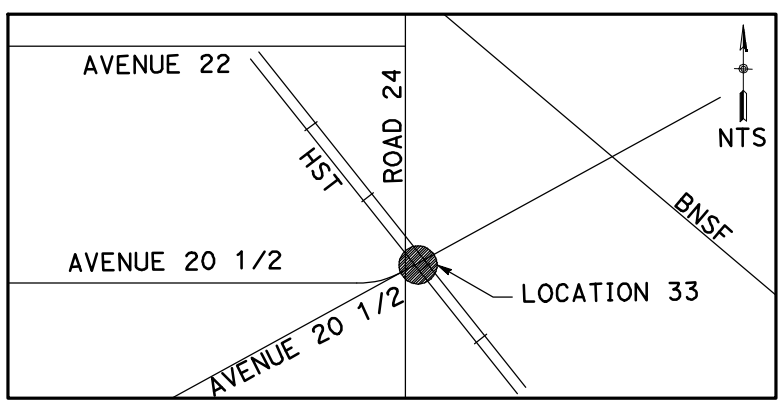
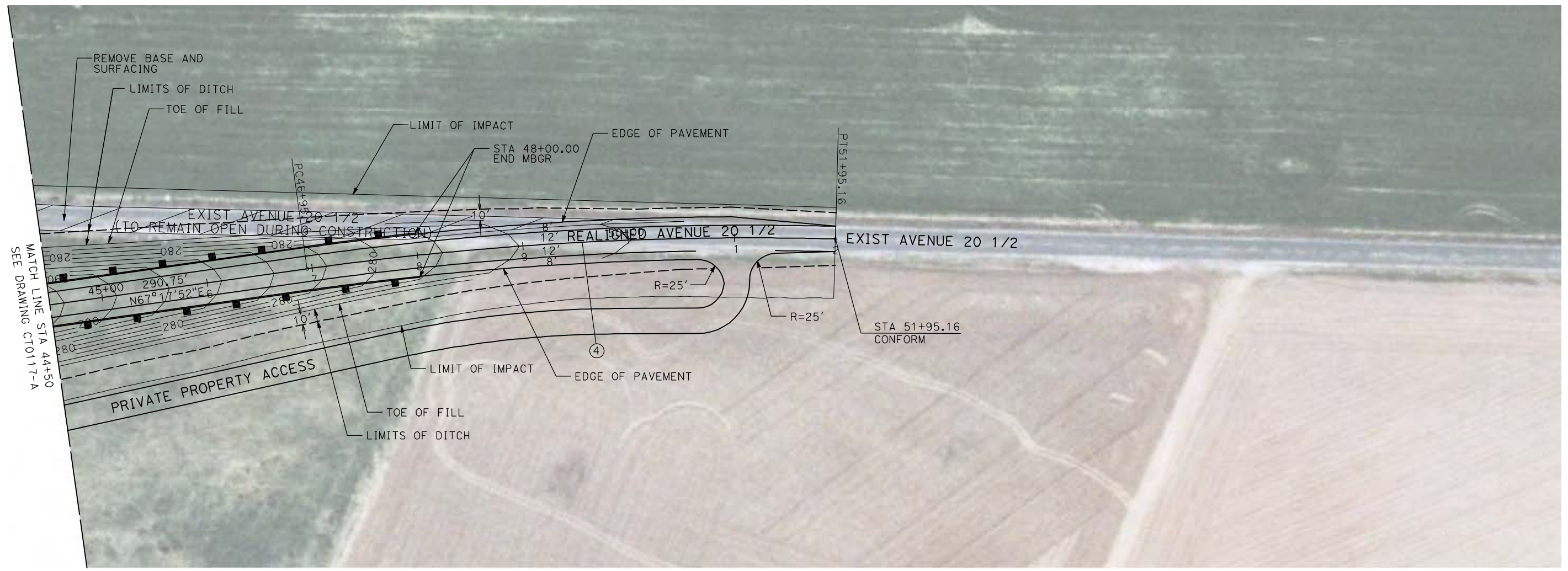
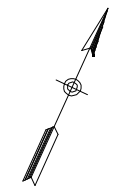


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 20 1/2
 LAYOUT
 SHEET 2 OF 3

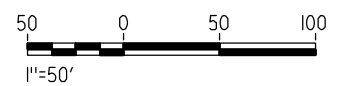
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HST06-007
 DRAWING NO.
CT0117-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:20:50 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0118-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	22°33'32"	598.34'	1181.18'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1116-A THROUGH CT1118-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

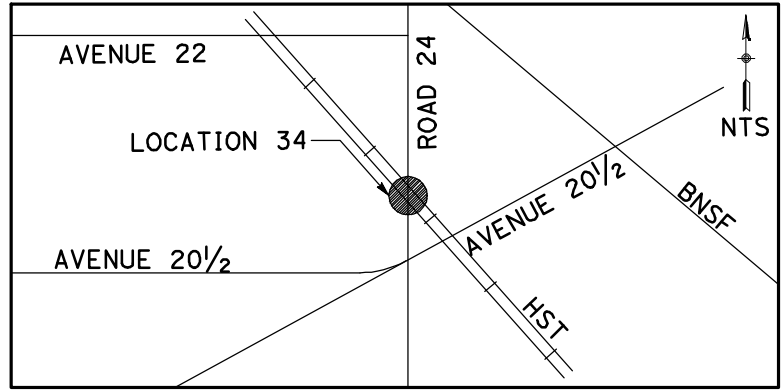
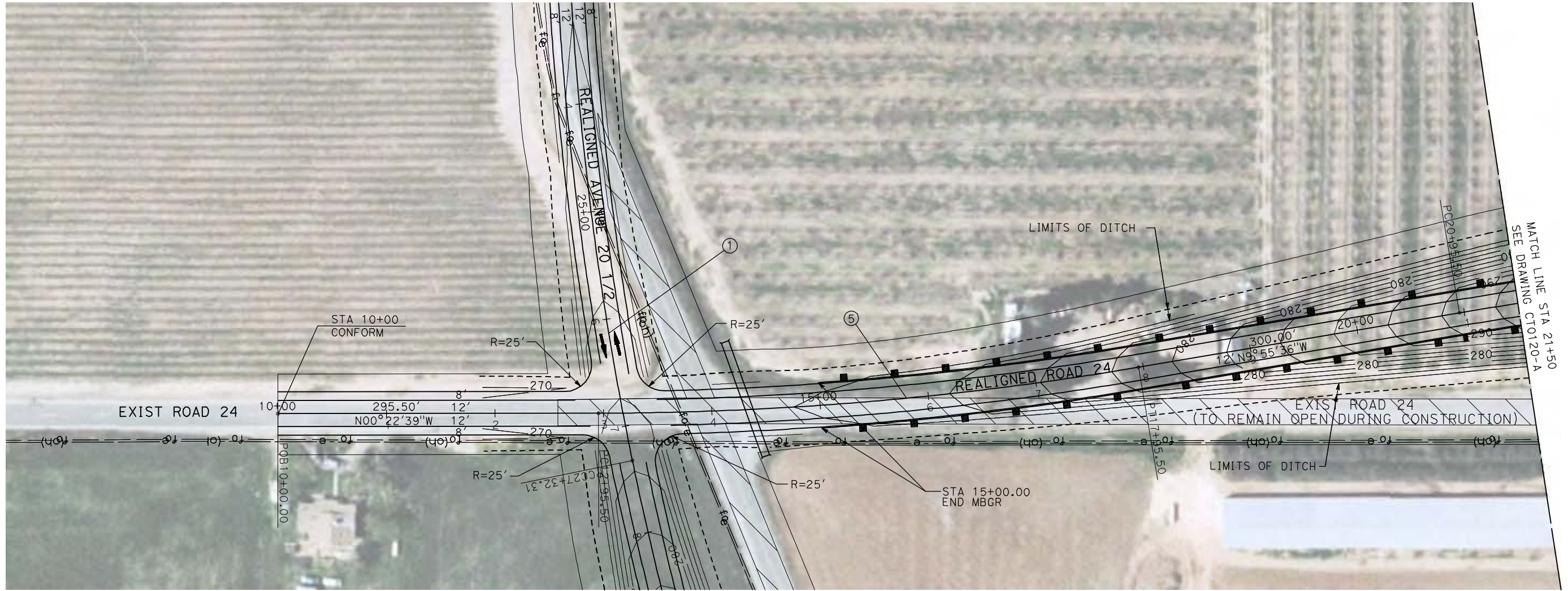
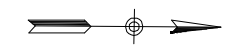


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

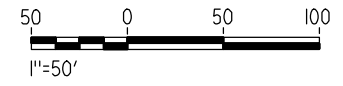
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 20 1/2
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0118-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
⑤	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1119-A THROUGH CT1121-A.



GibsonR1 4/29/2011 2:20:57 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0119-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

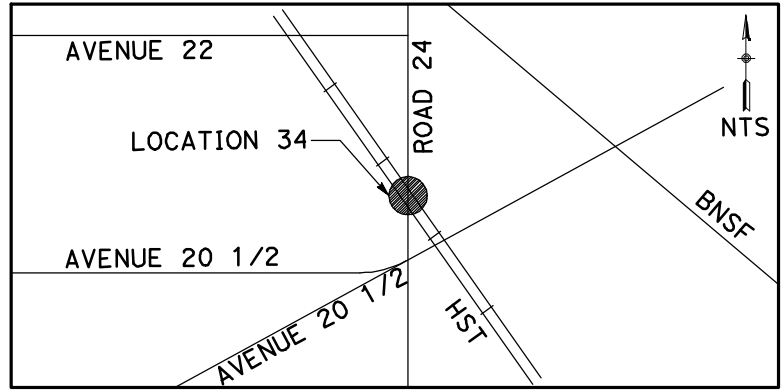
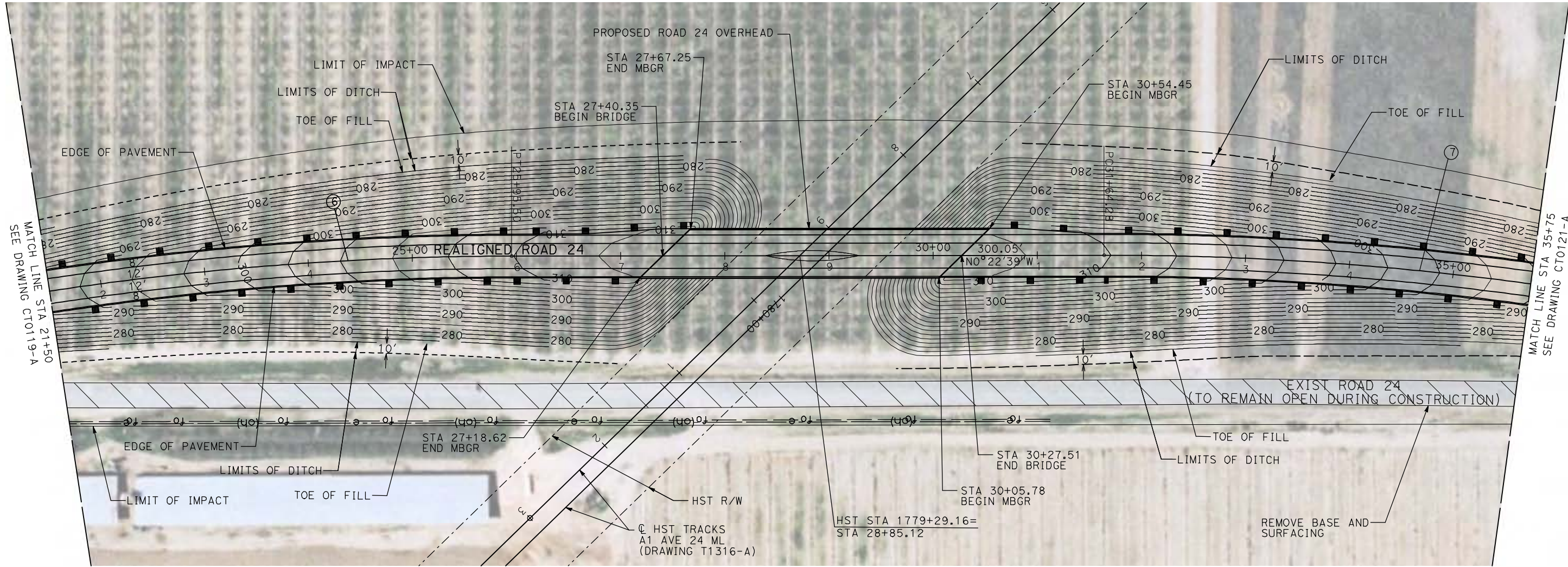


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 1 OF 3

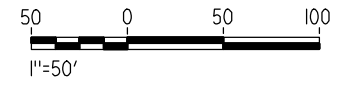
CONTRACT NO.
HST06-007
DRAWING NO.
CT0119-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:21:04 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0120-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
⑥	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
⑦	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1119-A THROUGH CT1121-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

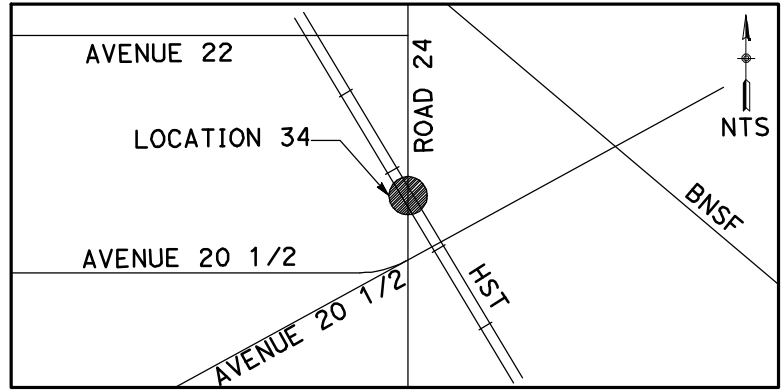
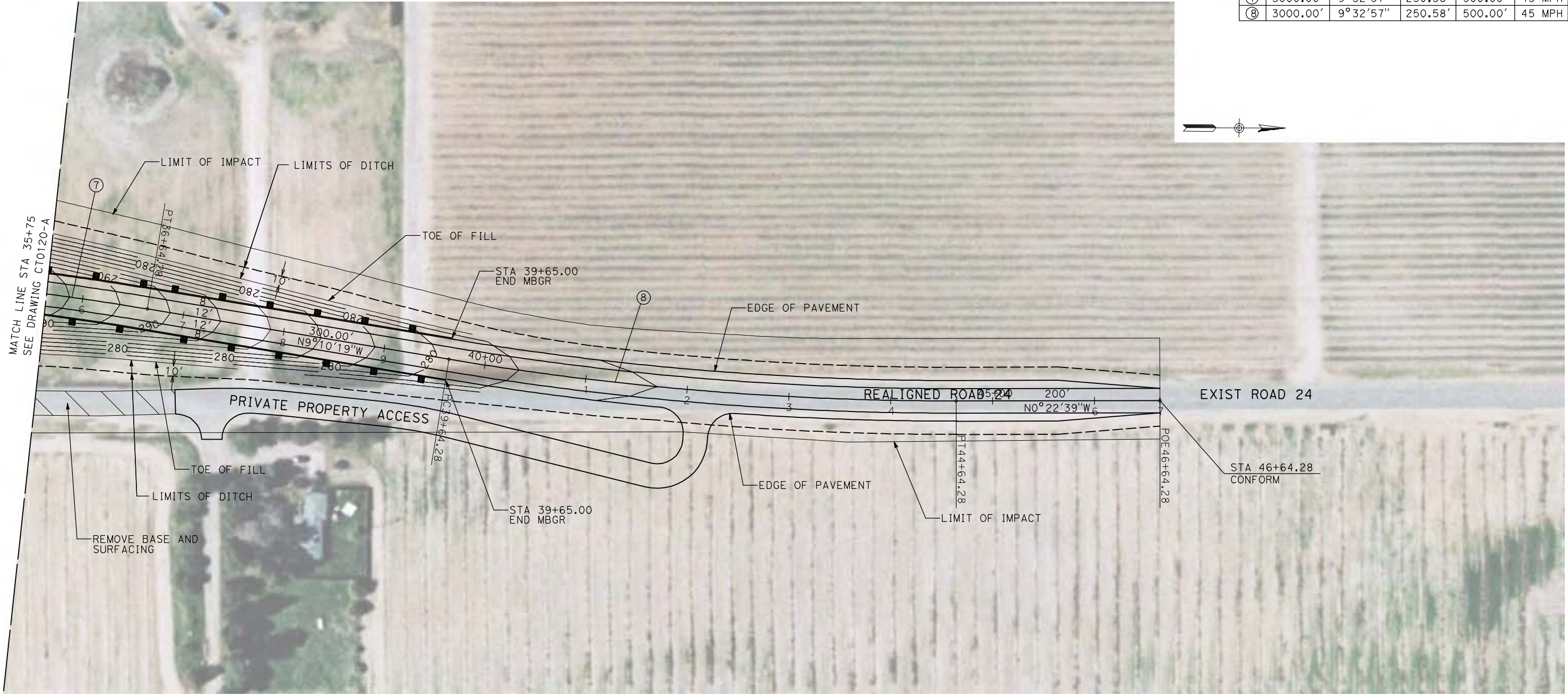


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 2 OF 3

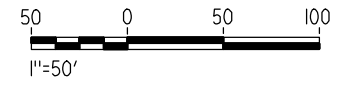
CONTRACT NO.
HST06-007
DRAWING NO.
CT0120-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA

NO.	R	Δ	T	L	V
⑦	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
⑧	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1119-A THROUGH CT1121-A.



GibsonR1 4/29/2011 2:21:15 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0121-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

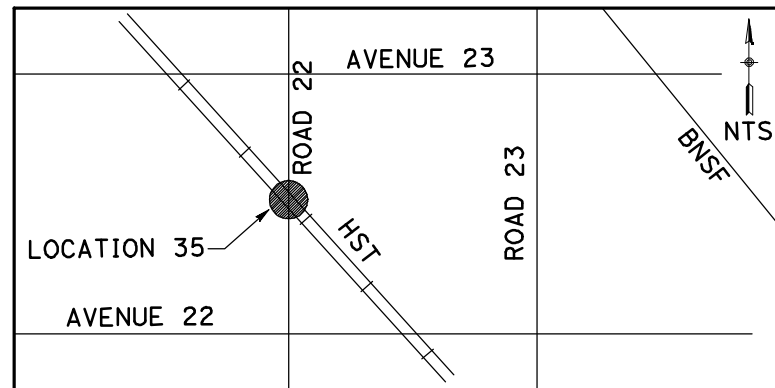


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

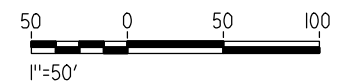
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0121-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1122-A THROUGH CT1124-A.



4/29/2011 2:21:21 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\11-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0122-A.dgn

GibsonR1

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 H. PHAN
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

**RECORD SET
 15% DESIGN
 SUBMITTAL**

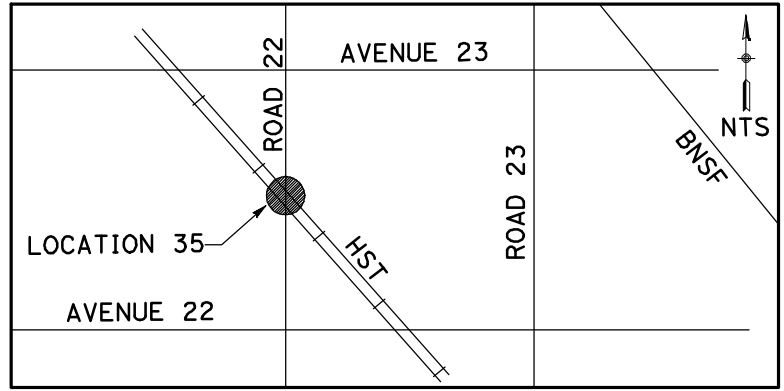
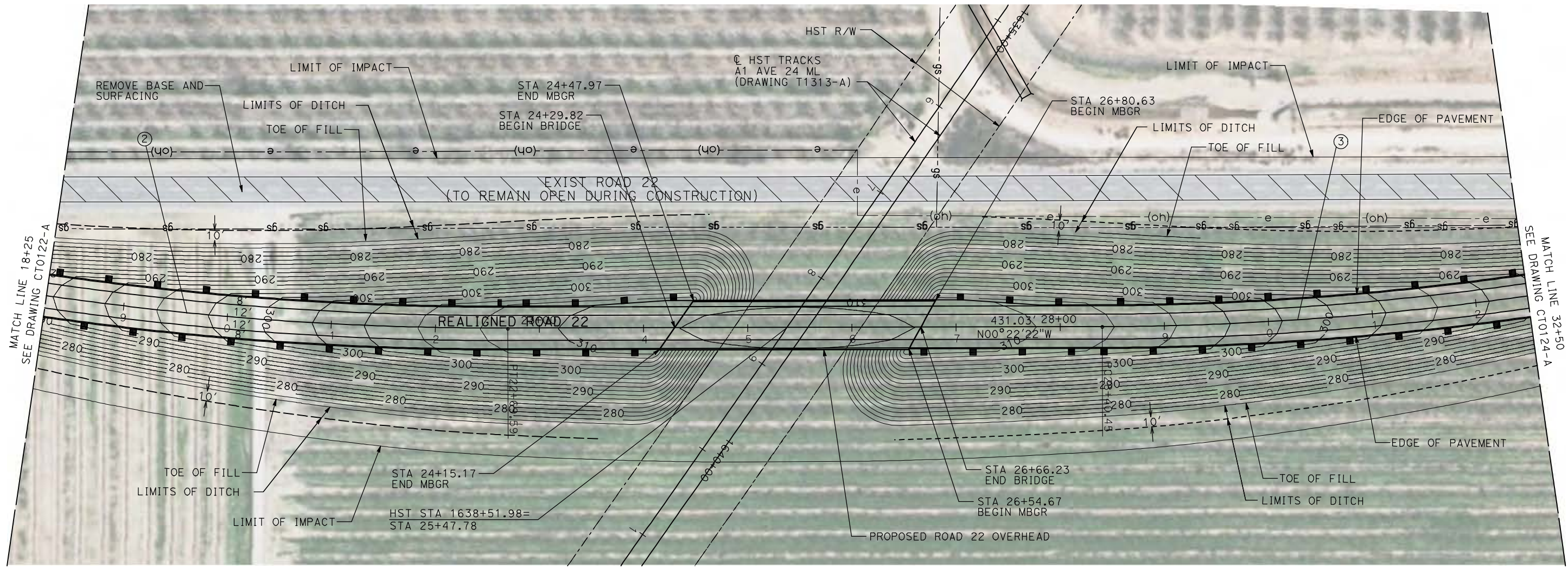
**NOT FOR
 CONSTRUCTION**



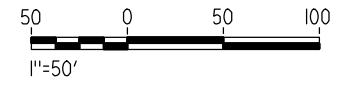
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 22
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
 HST06-007
 DRAWING NO.
 CT0122-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1122-A THROUGH CT1124-A.



4/29/2011 2:21:28 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0123-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

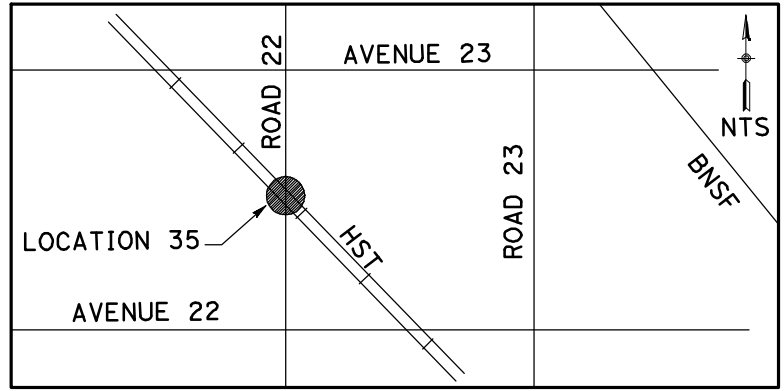
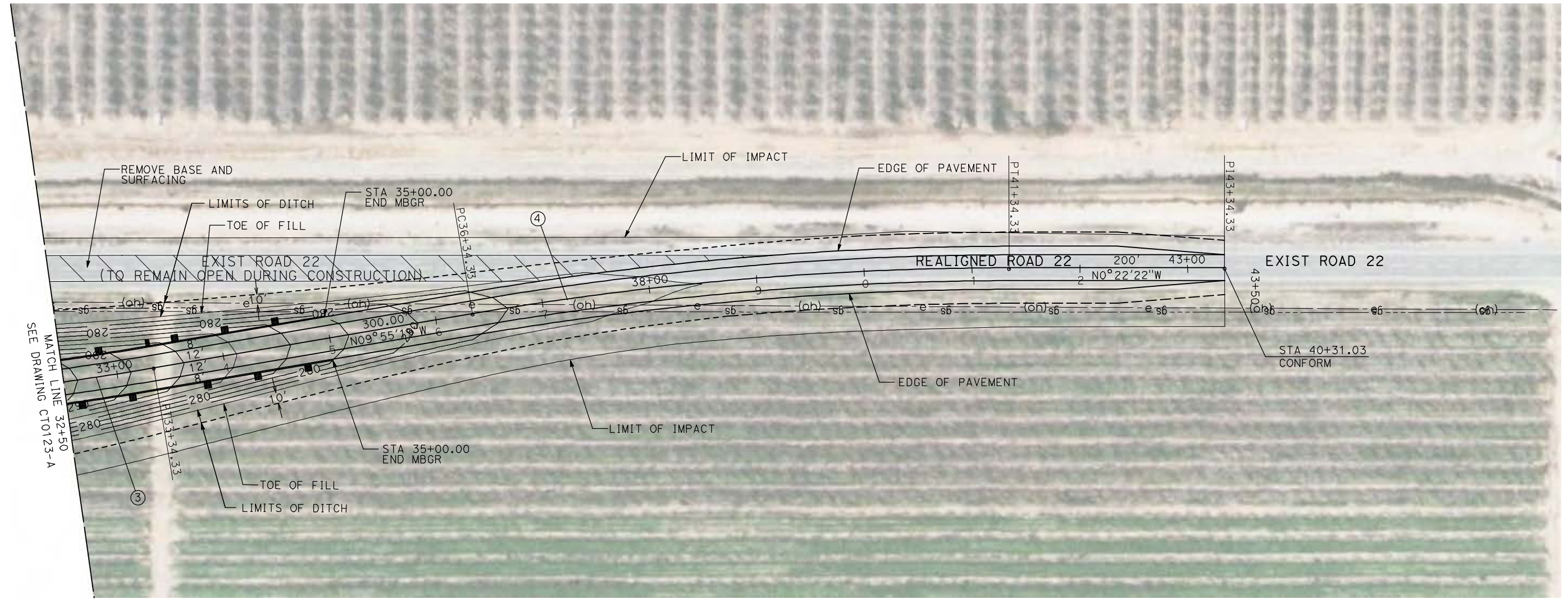
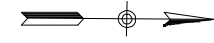


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 22
 LAYOUT
 SHEET 2 OF 3

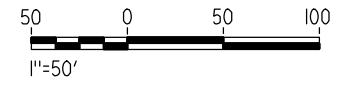
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0123-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA

NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1122-A THROUGH CT1124-A.



GibsonR1 4/29/2011 2:21:38 PM I:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0124-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

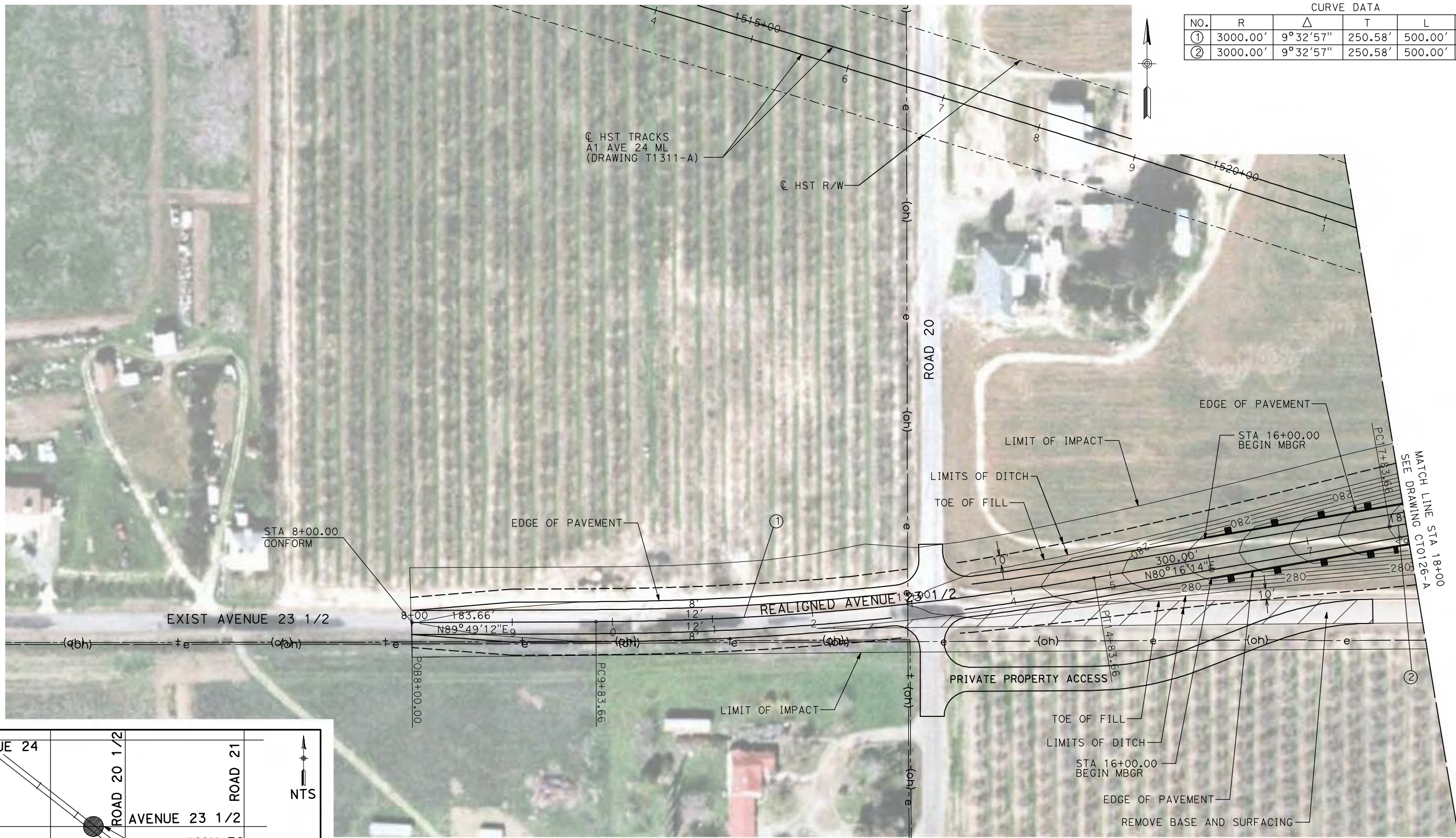
NOT FOR
CONSTRUCTION



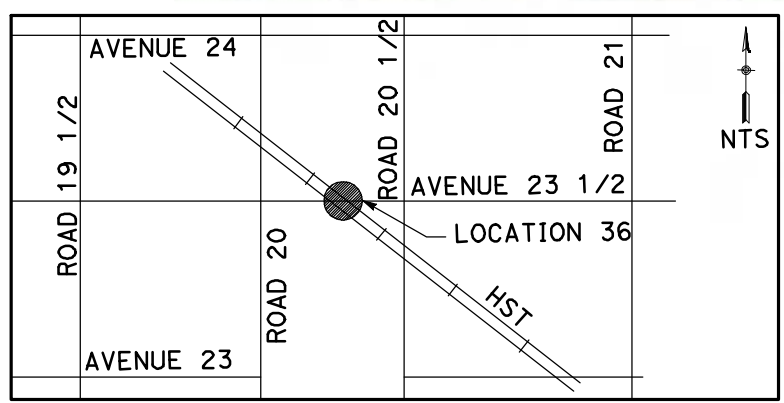
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 22
 LAYOUT
 SHEET 3 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0124-A
 SCALE
AS SHOWN
 SHEET NO.
OF

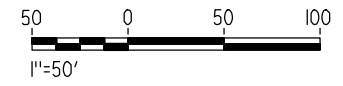
4/29/2011 2:21:45 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0125-A.dgn



CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1125-A THROUGH CT1127-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

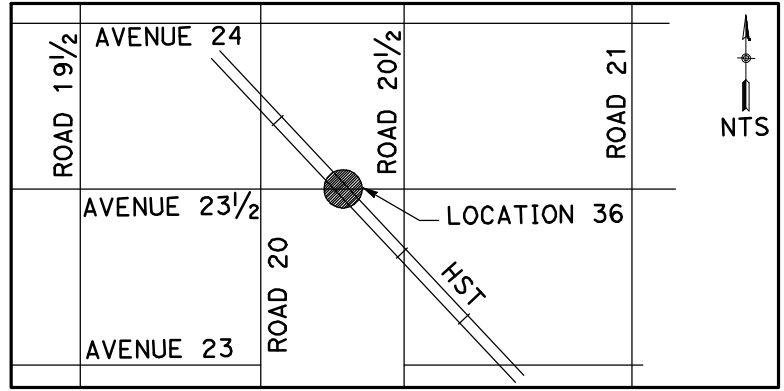
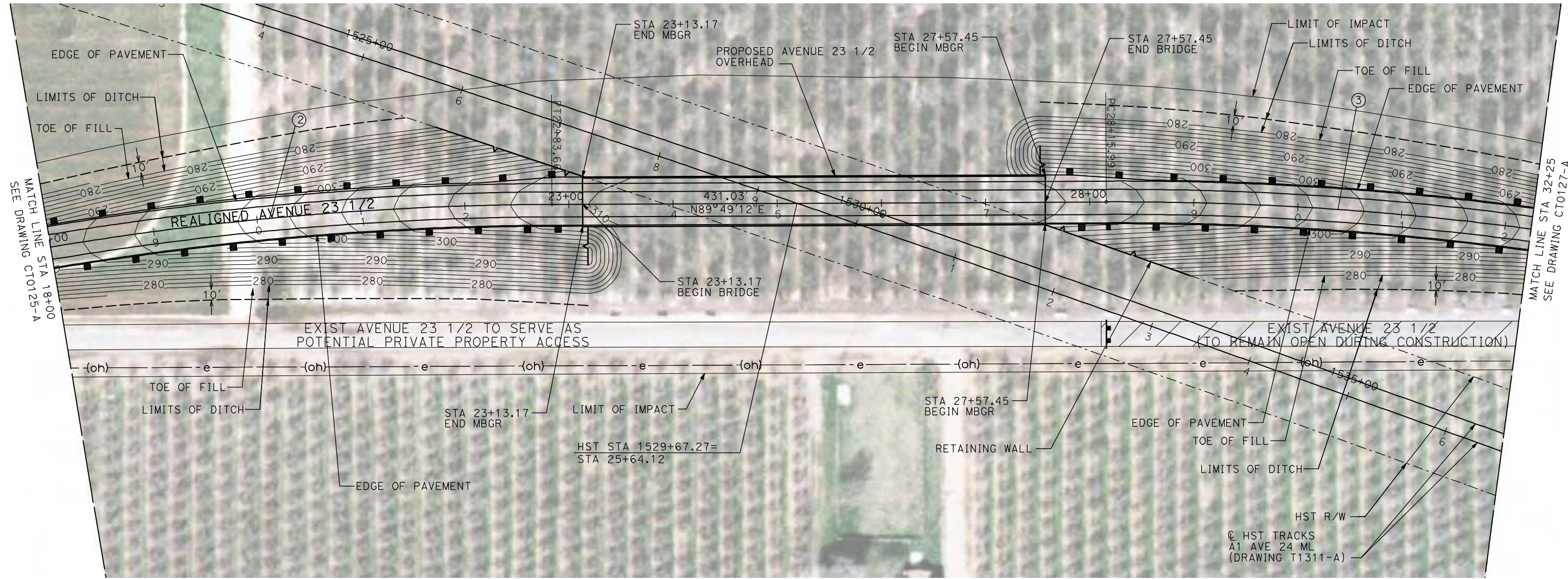
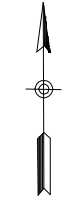


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 23 1/2
 LAYOUT
 SHEET 1 OF 3

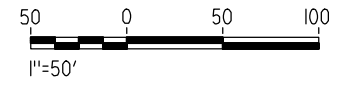
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0125-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:21:51 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0126-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1125-A THROUGH CT1127-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007

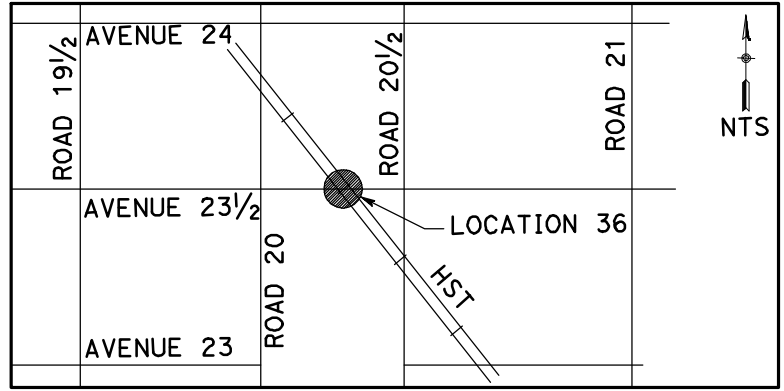
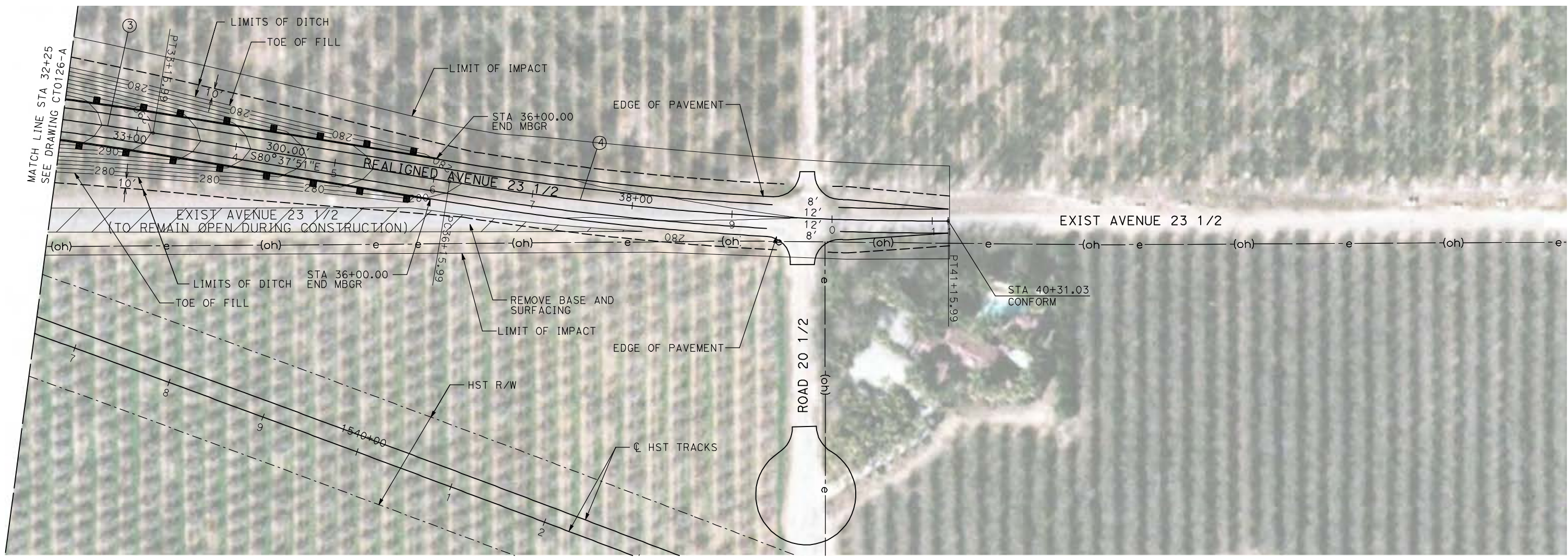
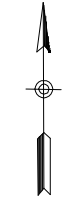
DRAWING NO.
CT0126-A

SCALE
AS SHOWN

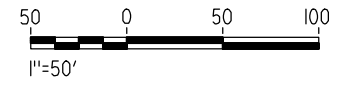
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1125-A THROUGH CT1127-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

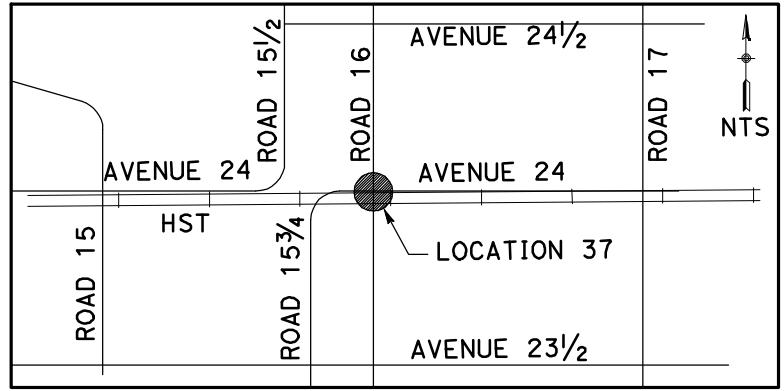
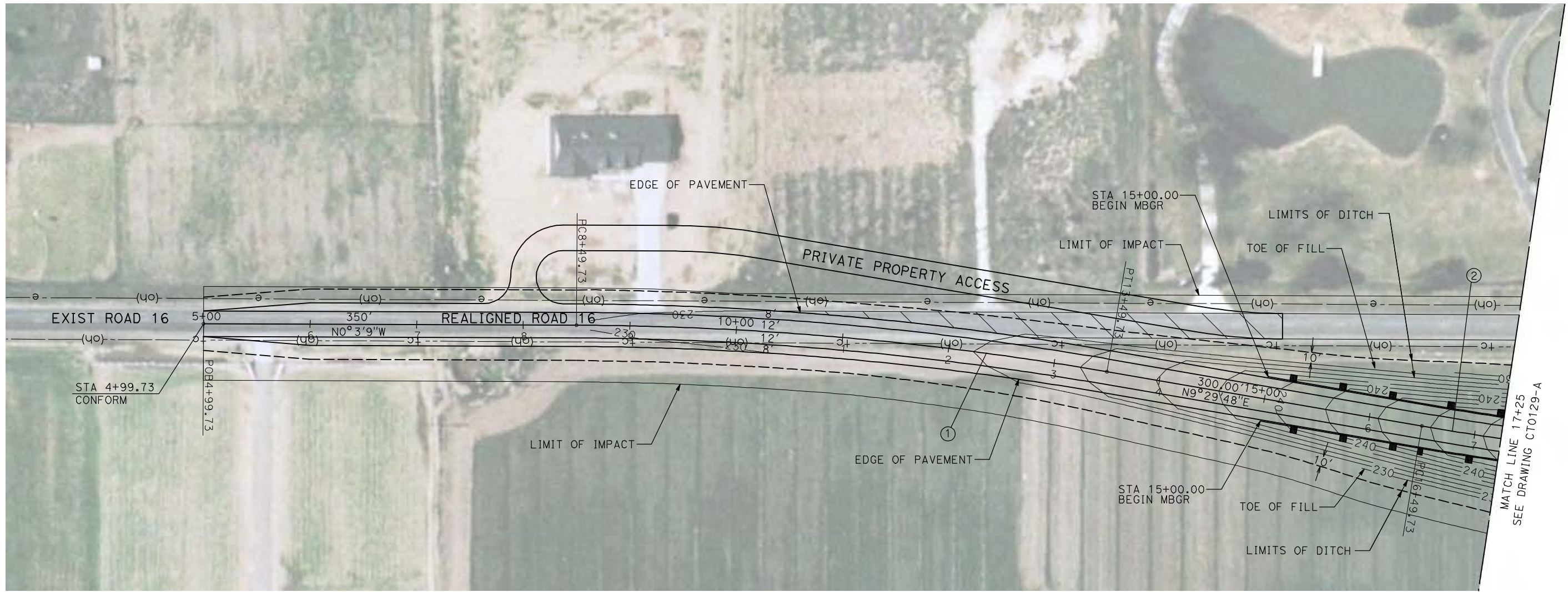


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 3 OF 3

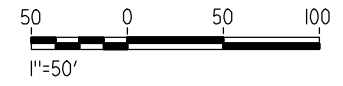
CONTRACT NO.
HST06-007
DRAWING NO.
CT0127-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:22:04 PM i:\cnsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0128-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1128-A THROUGH CT1130-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

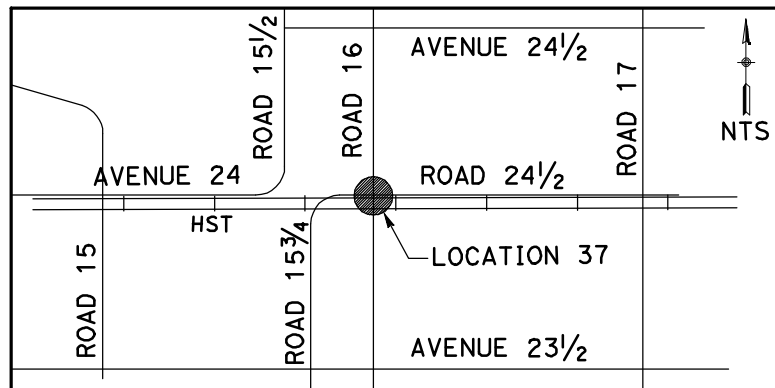
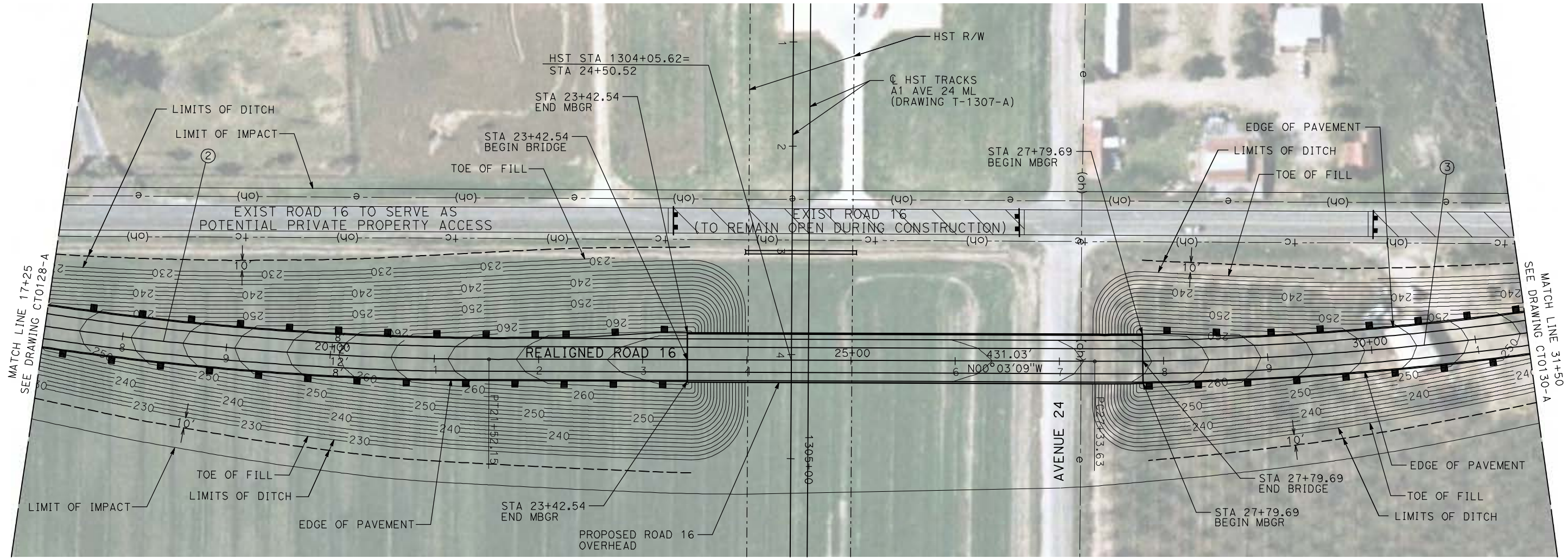
NOT FOR
CONSTRUCTION



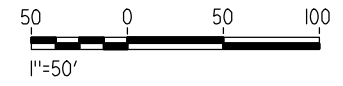
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0128-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1128-A THROUGH CT1130-A.



4/29/2011 2:22:10 PM i:\cnsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0129-A.dgn
 GibsonR1

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 H. PHAN
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

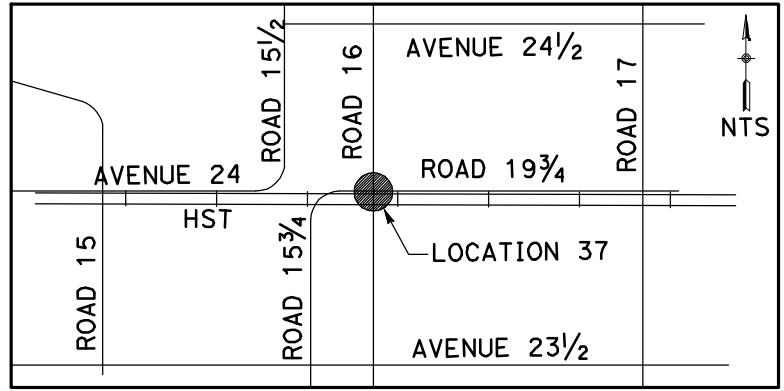


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 16
 LAYOUT
 SHEET 2 OF 3

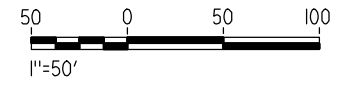
CONTRACT NO.
 HST06-007
 DRAWING NO.
 CT0129-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1128-A THROUGH CT1130-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 H. PHAN
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

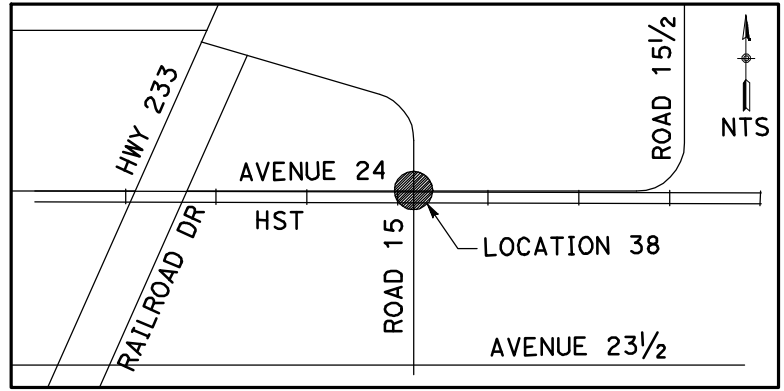
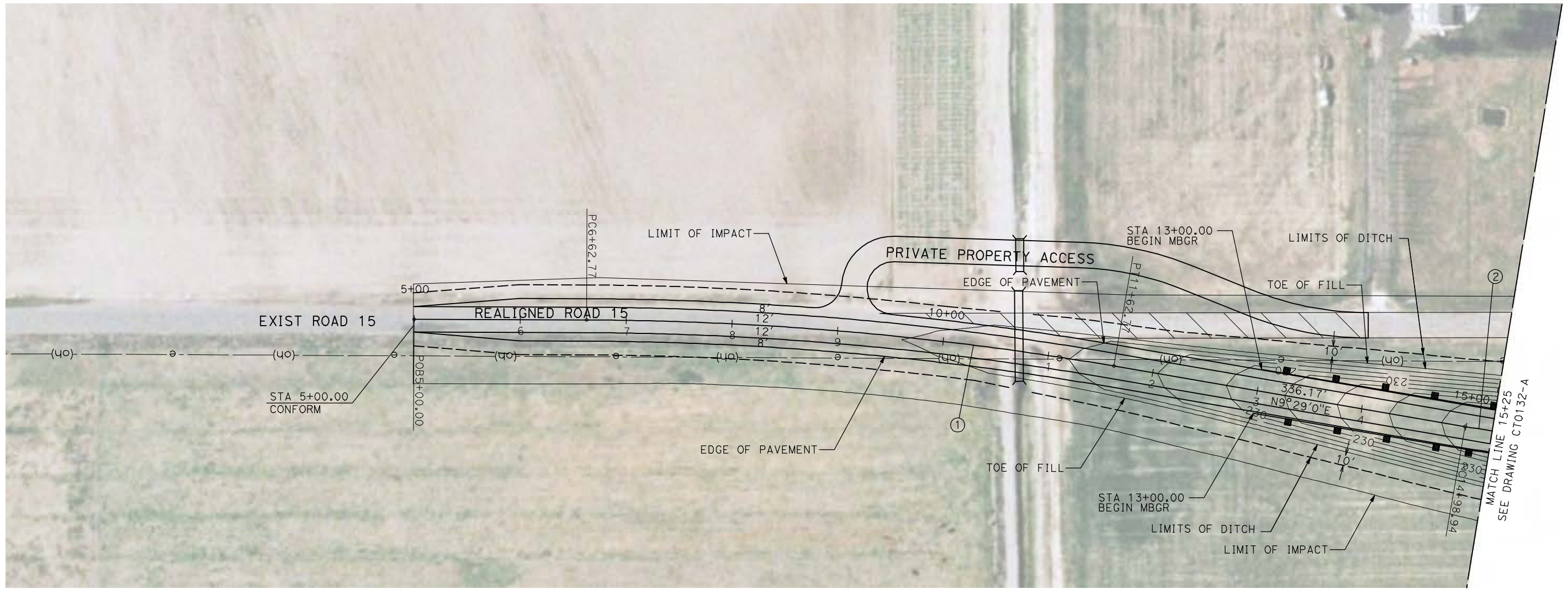


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 16
 LAYOUT
 SHEET 3 OF 3

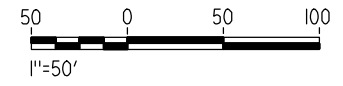
CONTRACT NO.
 HST06-007
 DRAWING NO.
 CT0130-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

4/29/2011 2:22:25 PM i:\cnsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0131-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1131-A THROUGH CT1133-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

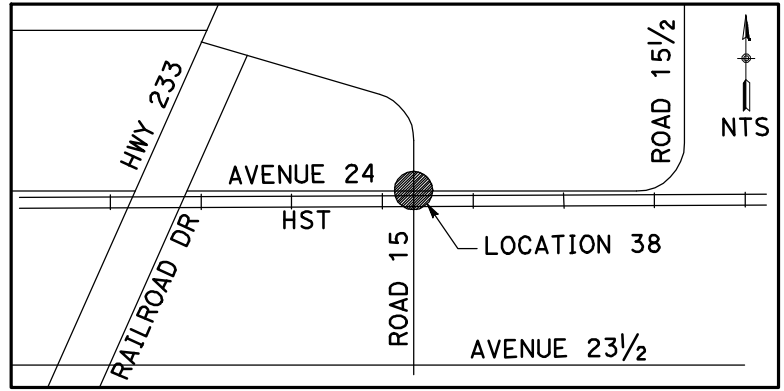
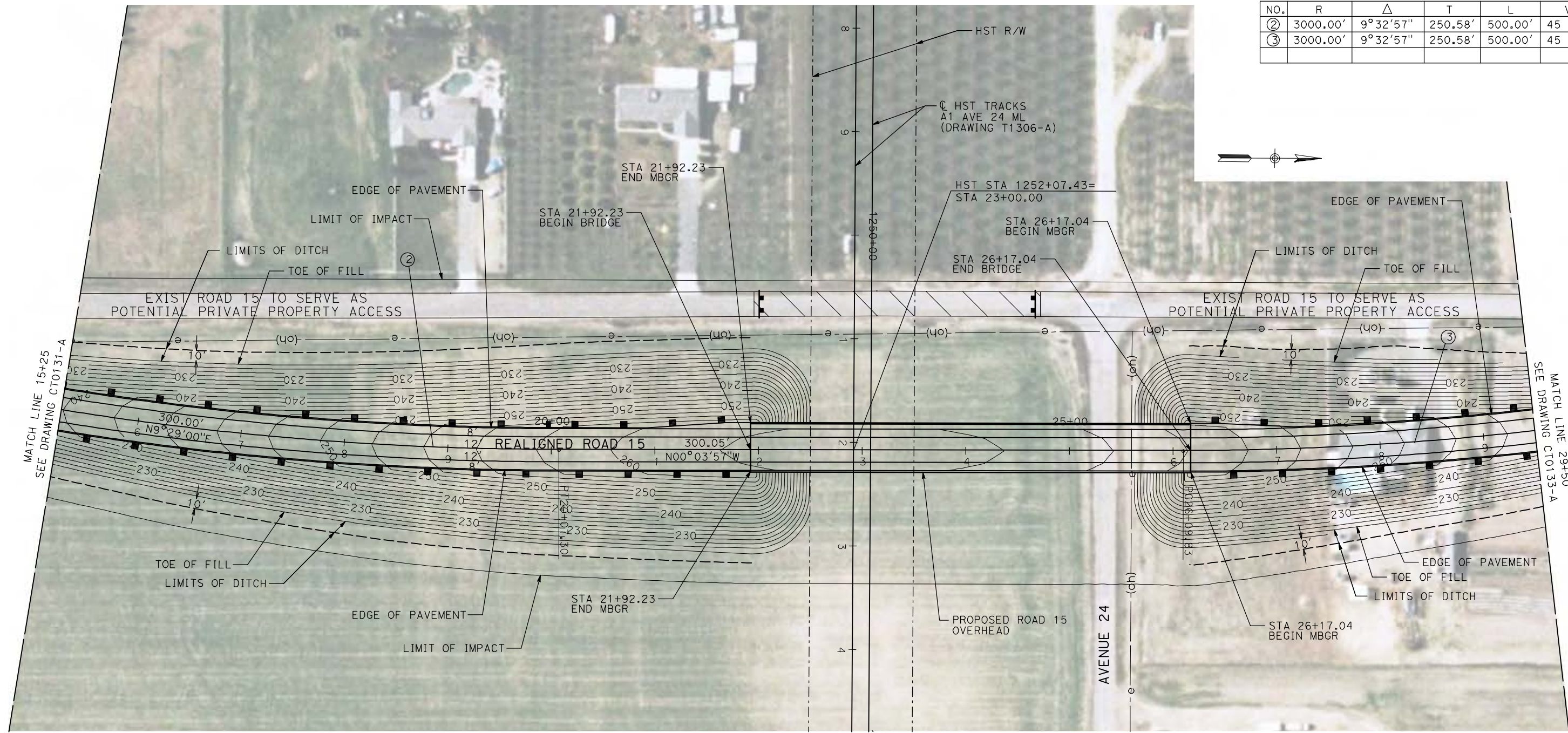


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 15
 LAYOUT
 SHEET 1 OF 3

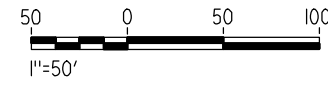
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0131-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:22:31 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0132-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1131-A THROUGH CT1133-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

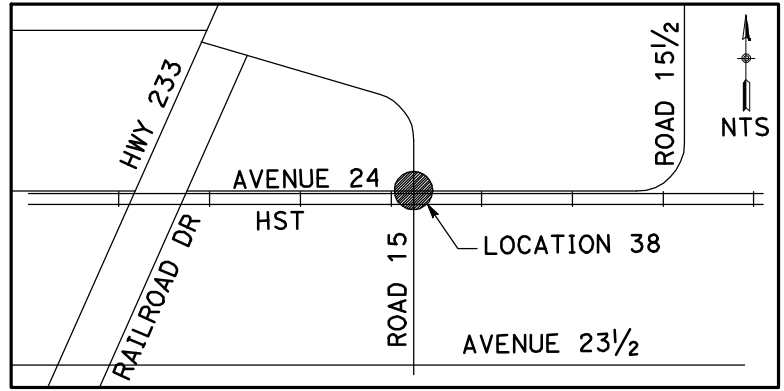
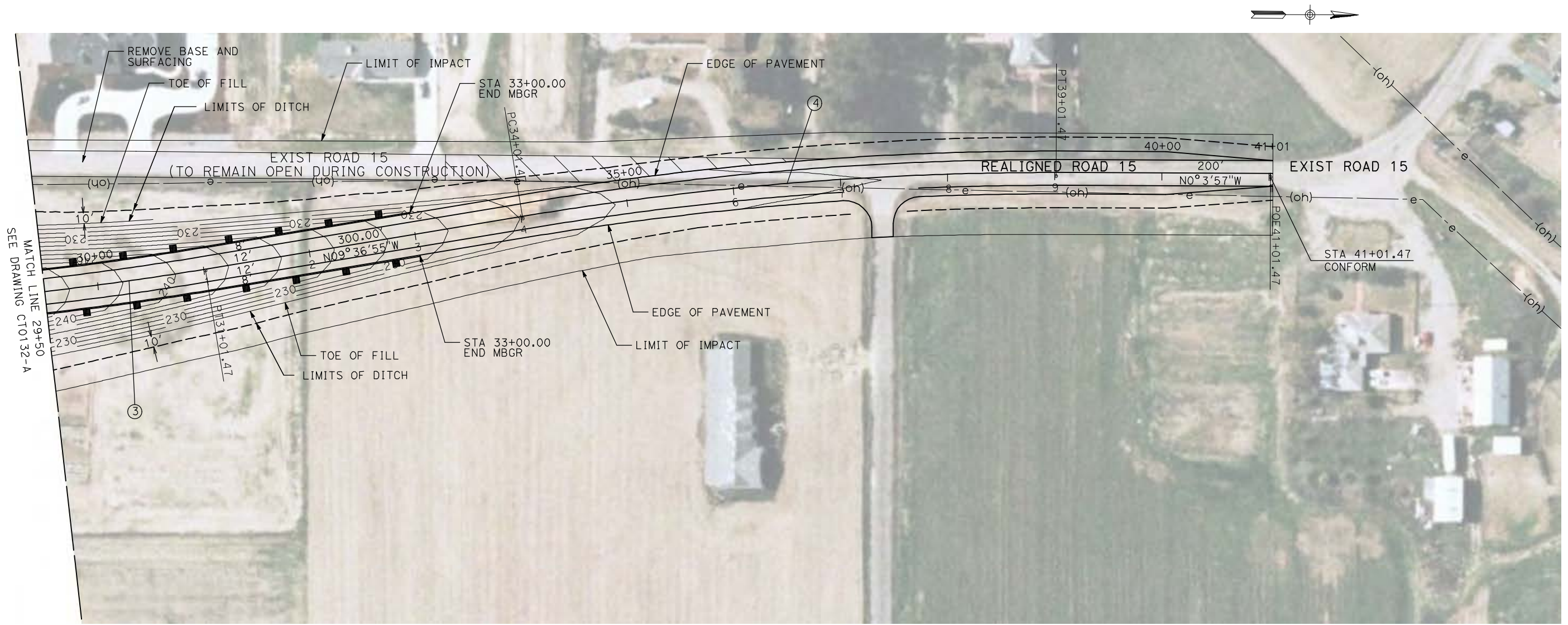


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 15
 LAYOUT
 SHEET 2 OF 3

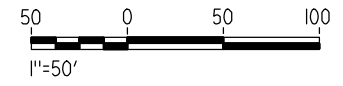
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0132-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:22:39 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\11-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0133-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1131-A THROUGH CT1133-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

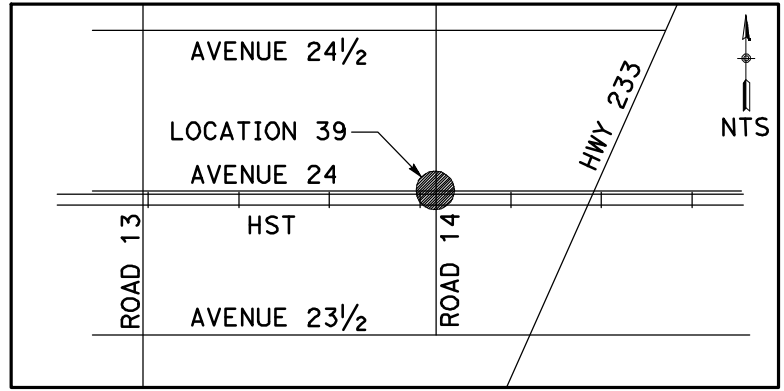
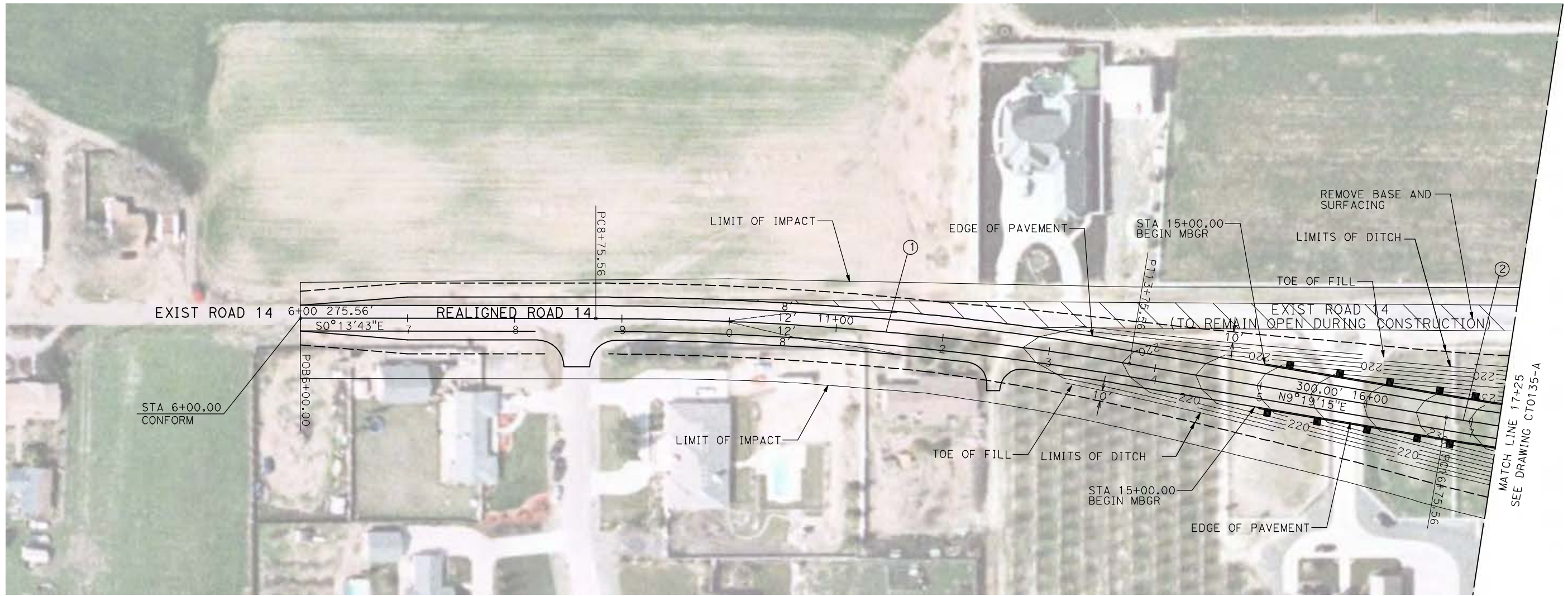


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 15
 LAYOUT
 SHEET 3 OF 3

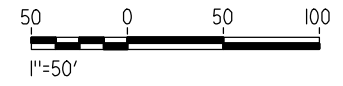
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0133-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA

NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1134-A THROUGH CT1136-A.



4/29/2011 2:22:44 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0134-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 H. PHAN
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

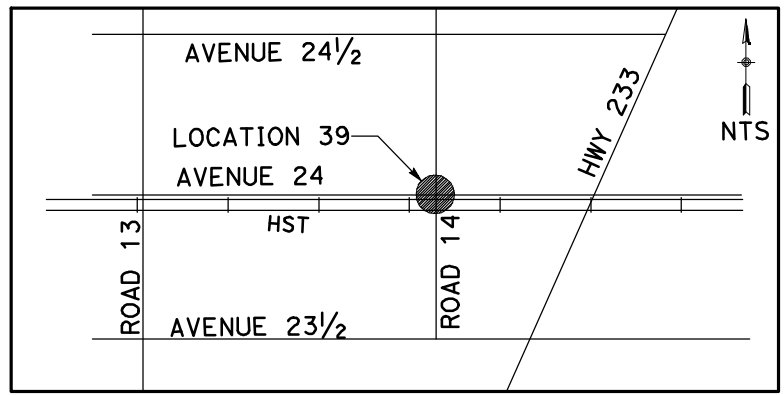
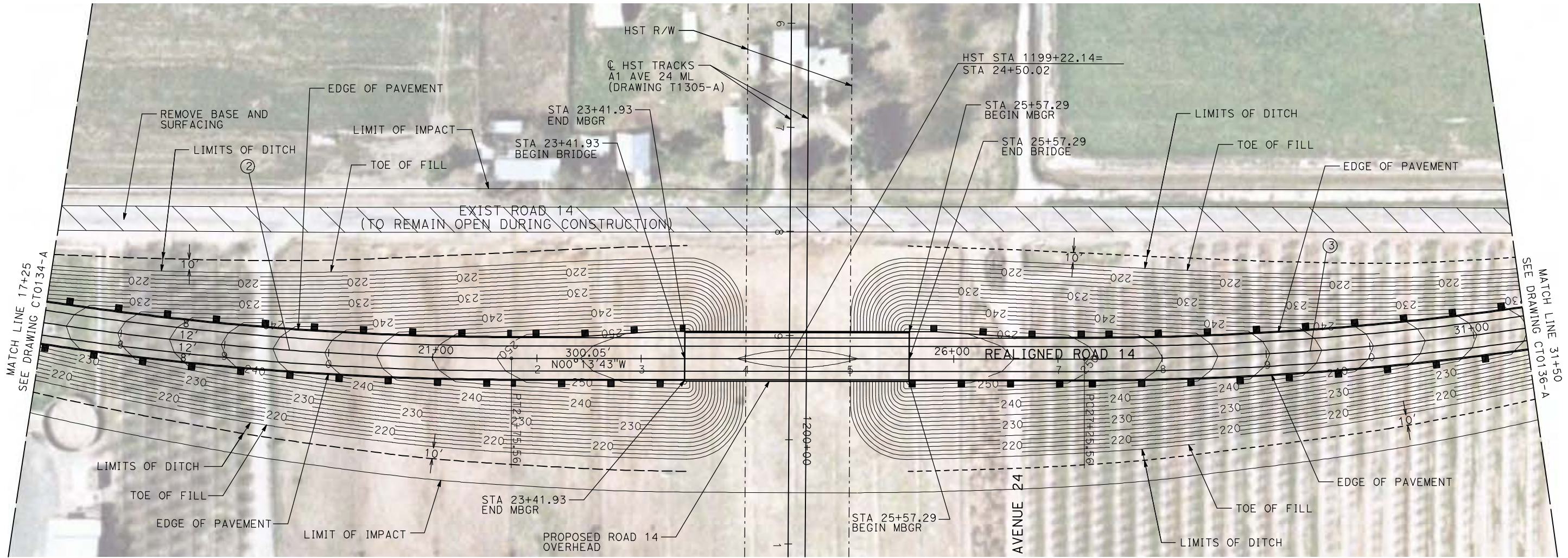
NOT FOR
CONSTRUCTION



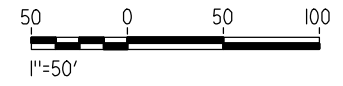
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 14
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
 HST06-007
 DRAWING NO.
 CT0134-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1134-A THROUGH CT1136-A.



GibsonR1 4/29/2011 2:22:50 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0135-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

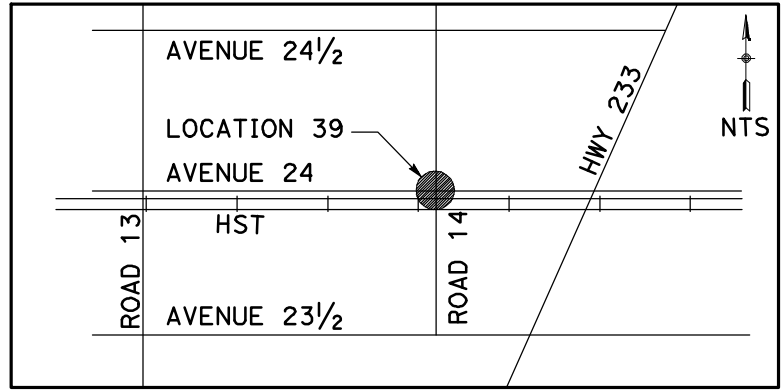


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 14
 LAYOUT
 SHEET 2 OF 3

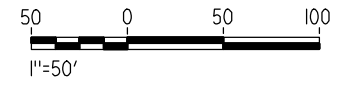
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0135-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA

NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1134-A THROUGH CT1136-A.



GibsonR1 4/29/2011 2:22:58 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\11-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0136-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

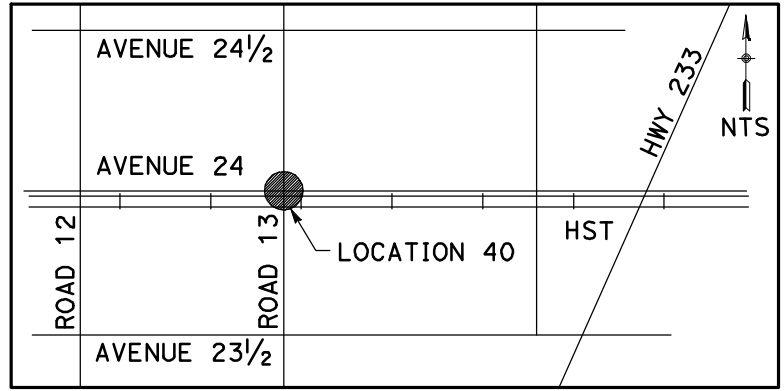
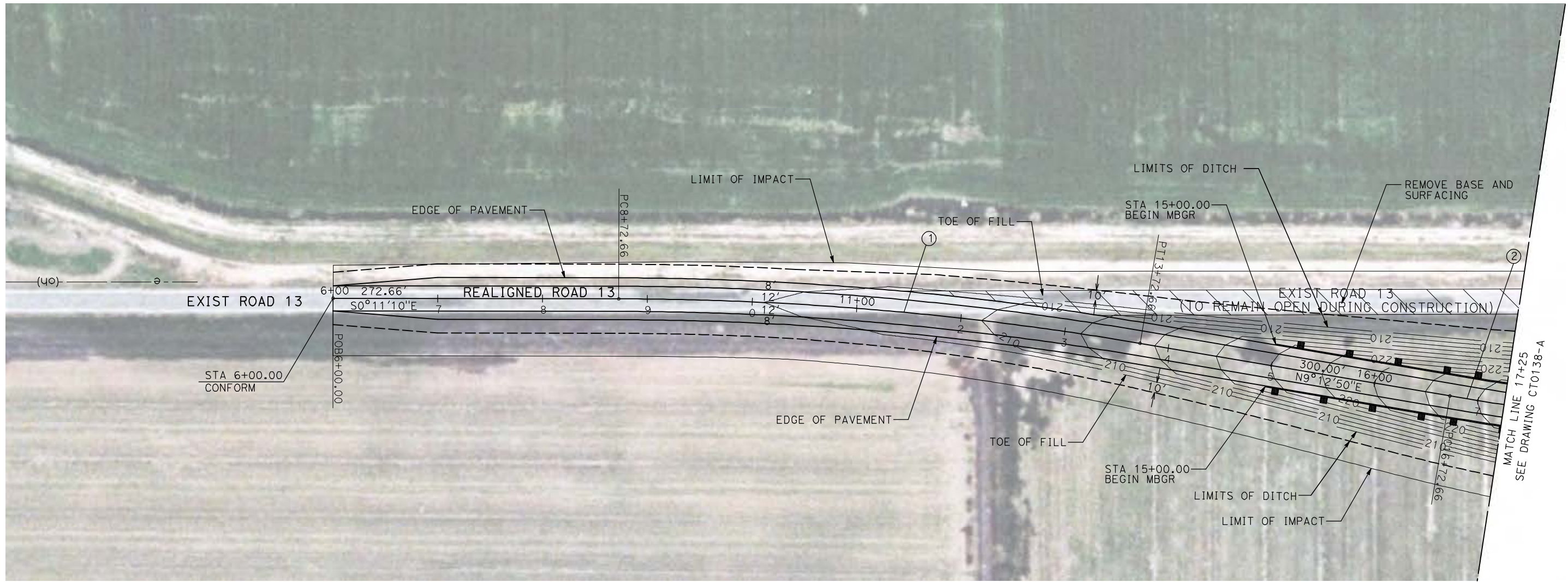


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 14
 LAYOUT
 SHEET 3 OF 3

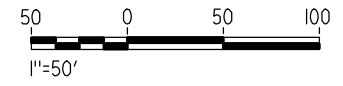
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0136-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:23:04 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0137-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1137-A THROUGH CT1139-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

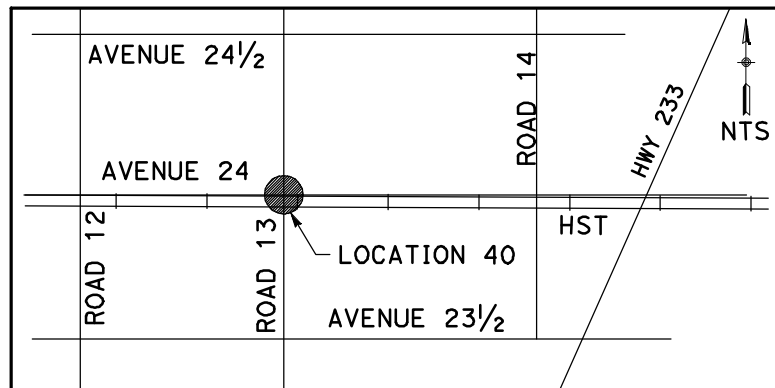
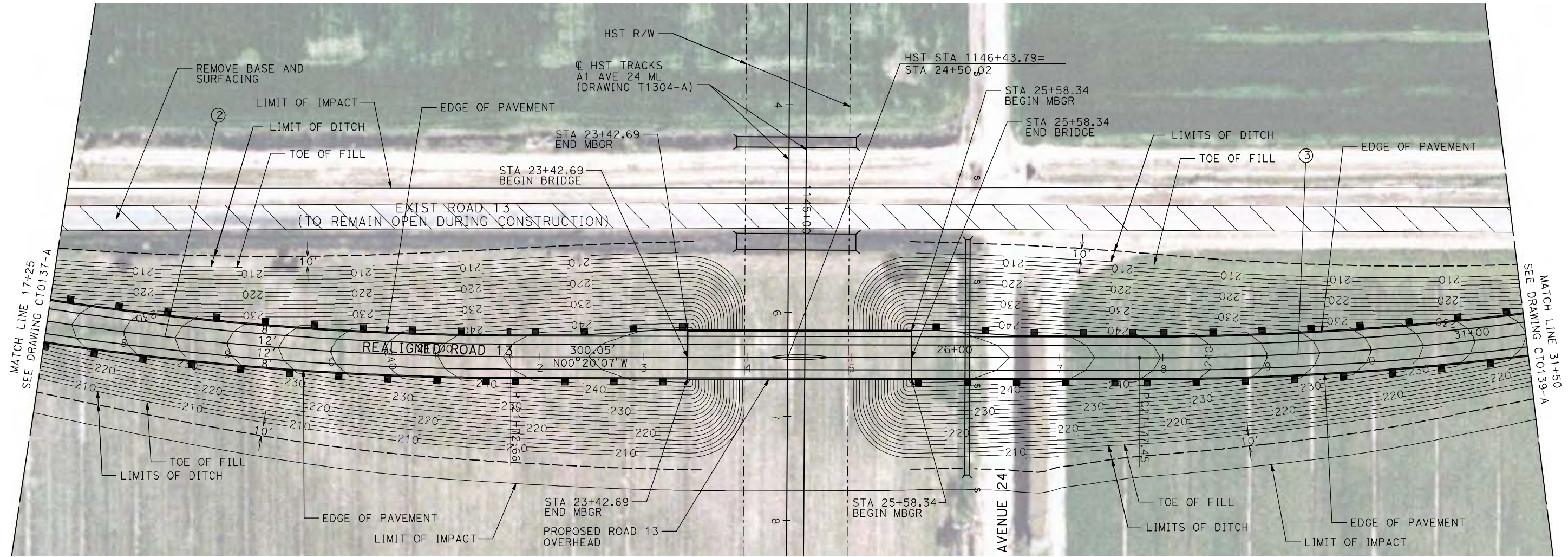
NOT FOR
CONSTRUCTION



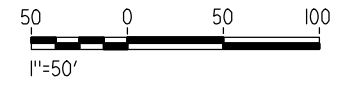
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 13
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0137-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1137-A THROUGH CT1139-A.



4/29/2011 2:23:11 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0138-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

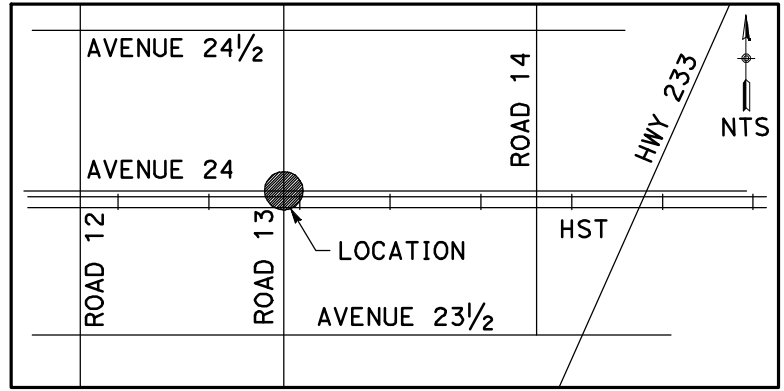
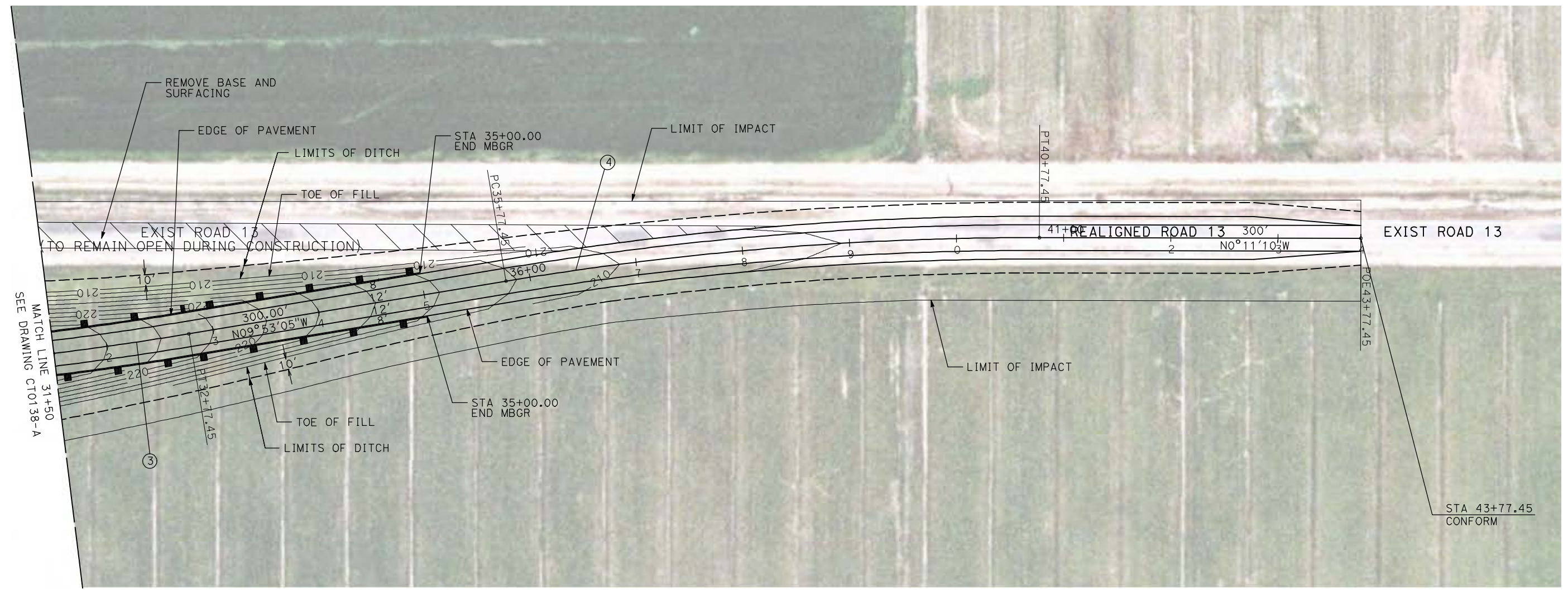


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 13
 LAYOUT
 SHEET 2 OF 3

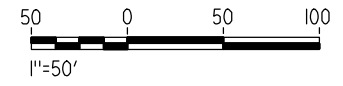
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0138-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA

NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1137-A THROUGH CT1139-A.



4/29/2011 2:23:20 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0139-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

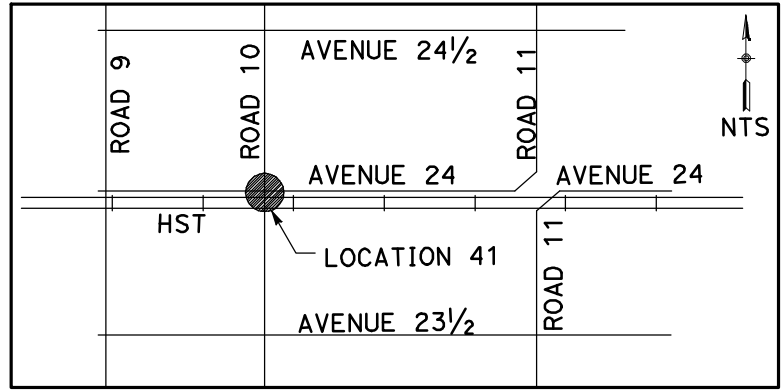
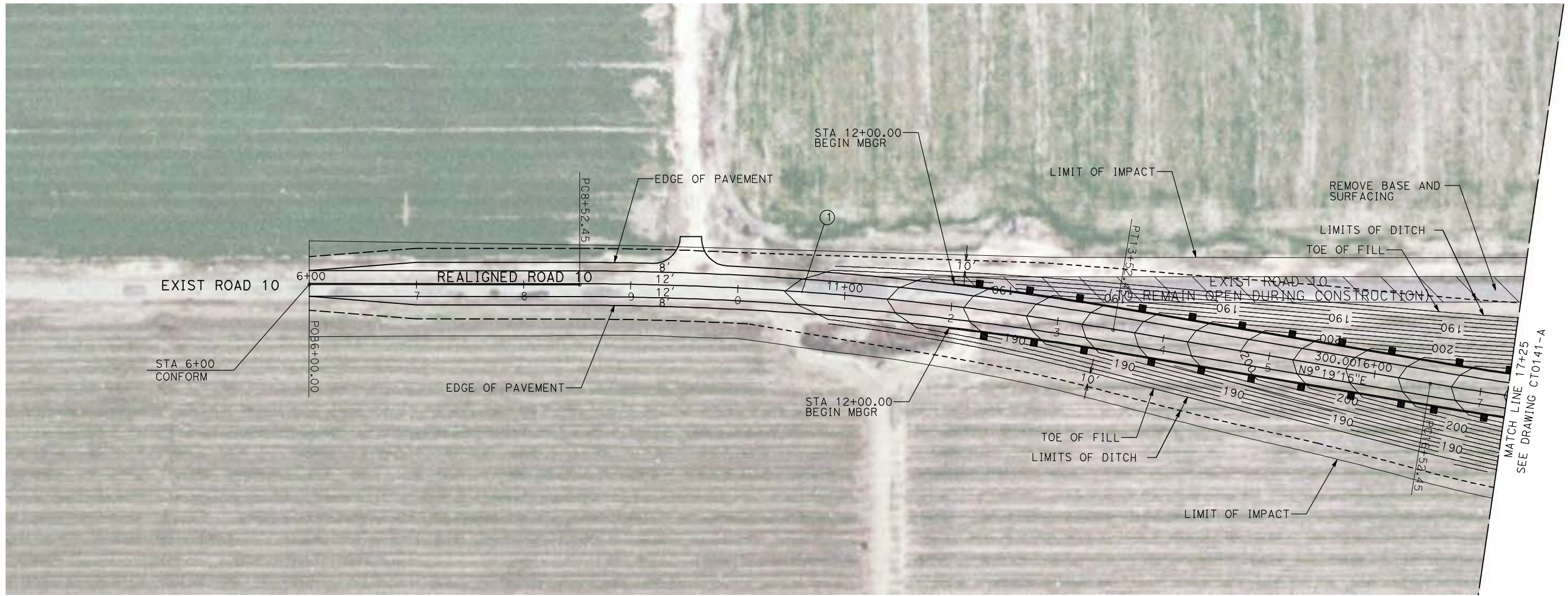
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CONSTRUCTION



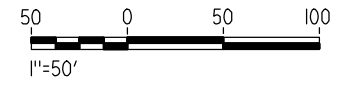
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 13
 LAYOUT
 SHEET 3 OF 3

CONTRACT NO.
 HST06-007
 DRAWING NO.
 CT0139-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1140-A THROUGH CT1142-A.



4/29/2011 2:23:26 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\11-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0140-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

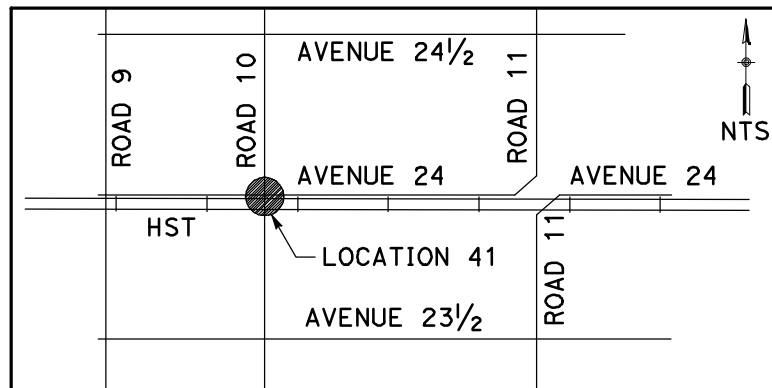
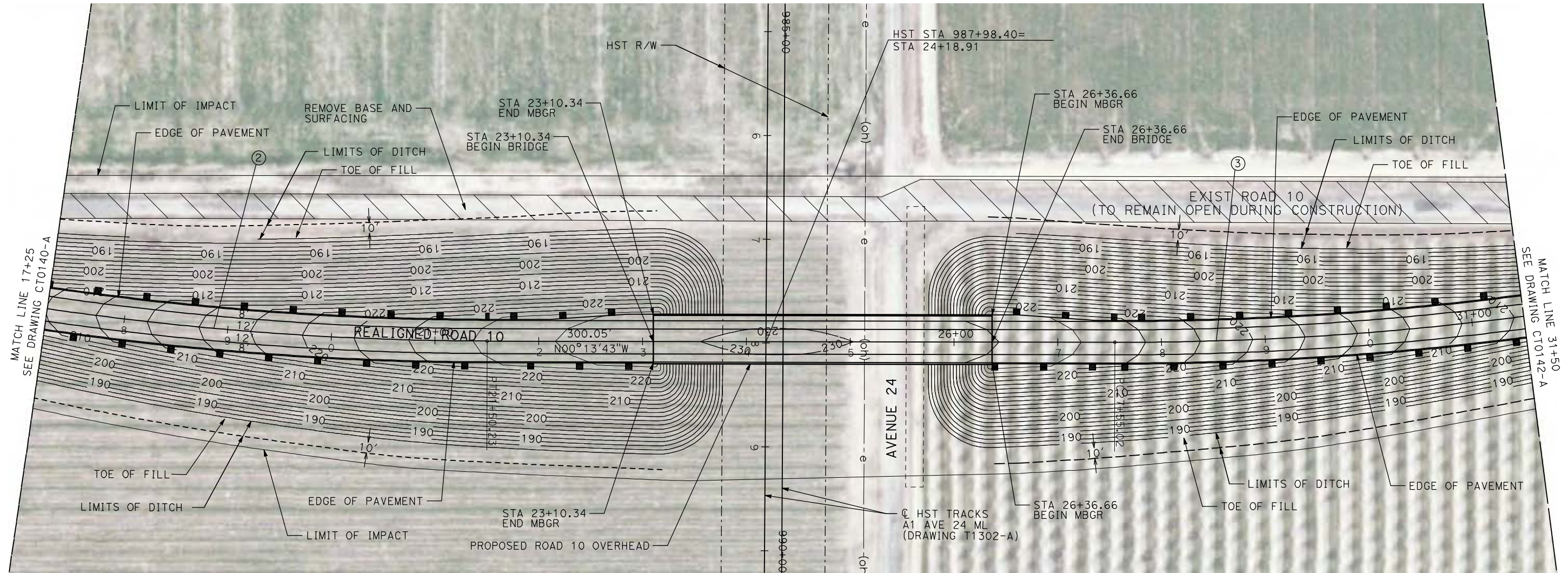
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 10
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0140-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1140-A THROUGH CT1142-A.



4/29/2011 2:23:33 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0141-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



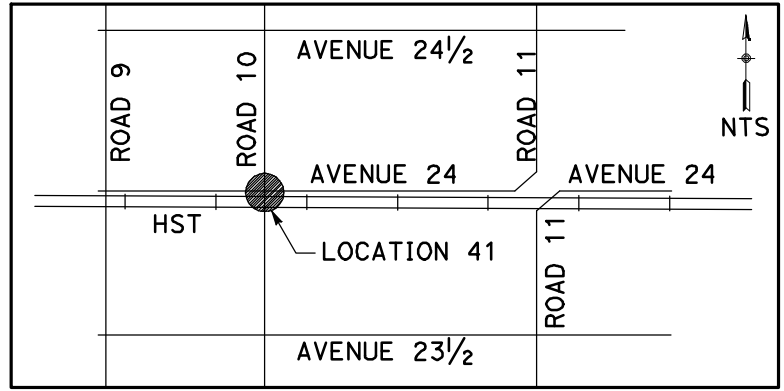
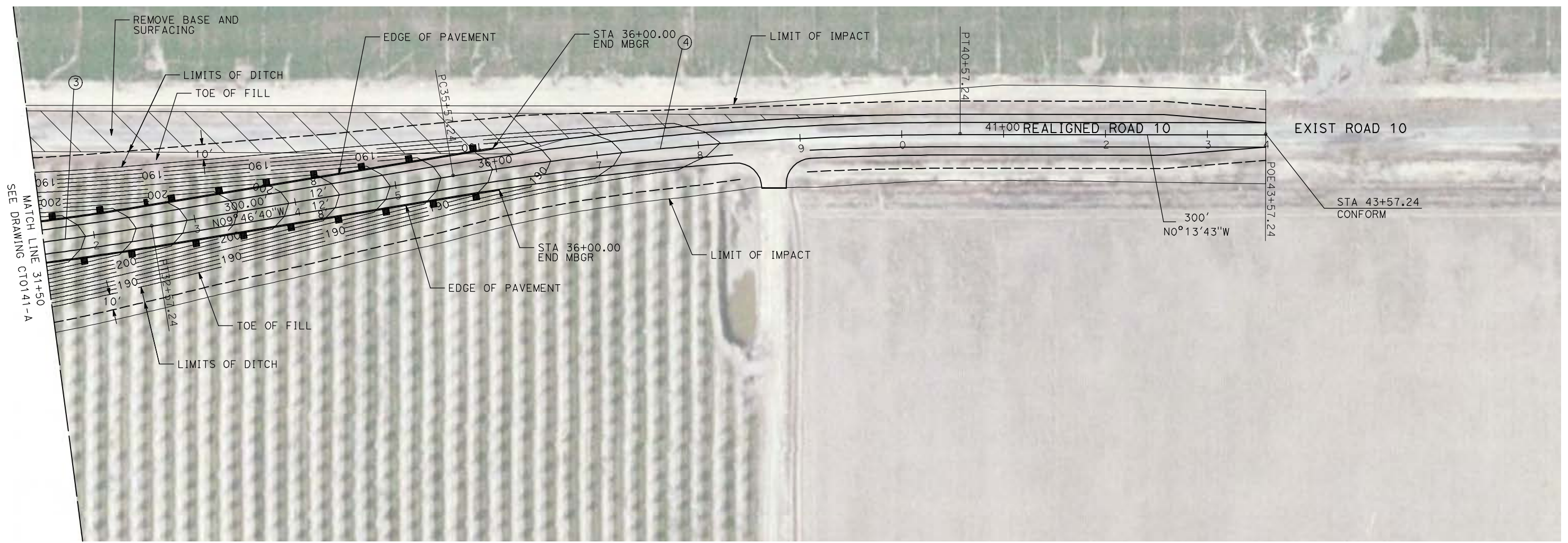
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 10
LAYOUT
SHEET 2 OF 3

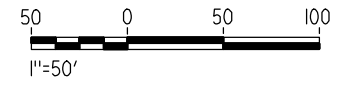
CONTRACT NO.
HST06-007
DRAWING NO.
CT0141-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:23:43 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0142-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1140-A THROUGH CT1142-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

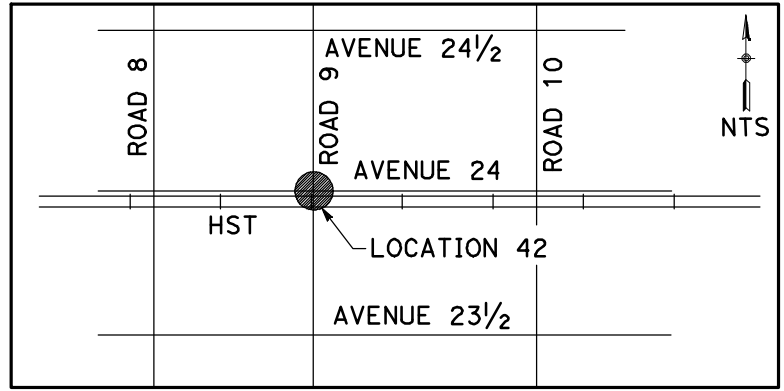
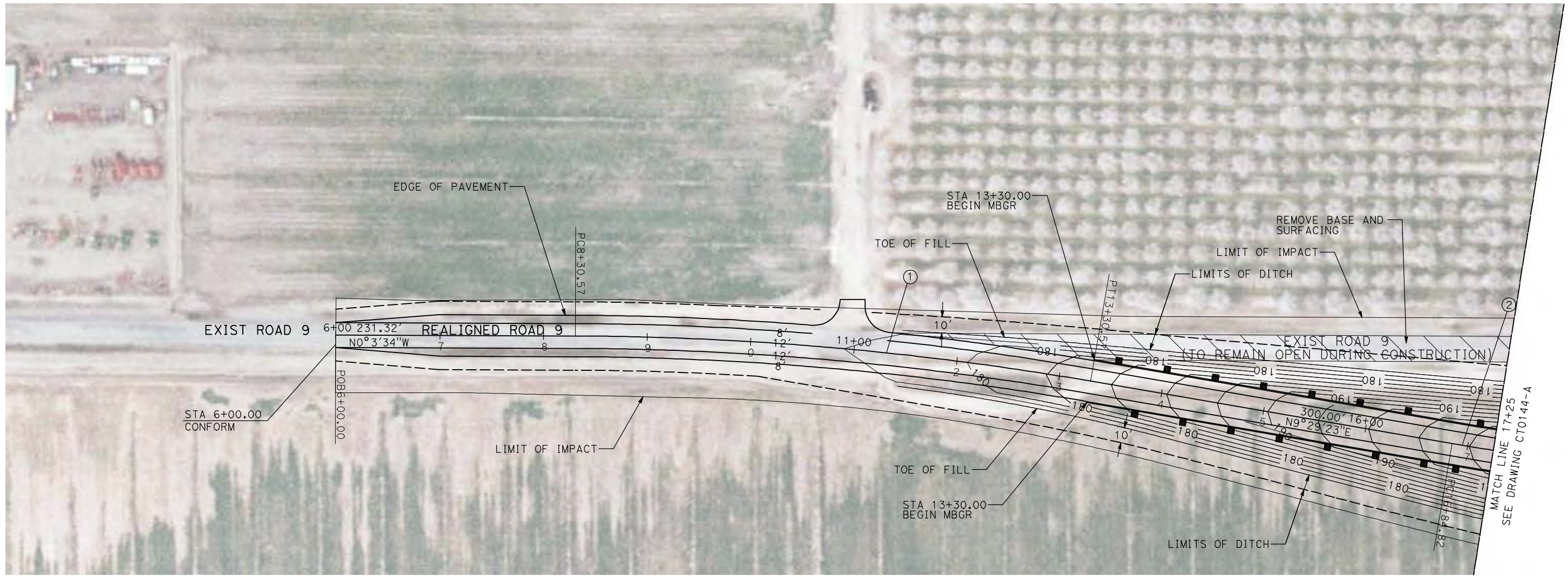


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 10
LAYOUT
SHEET 3 OF 3

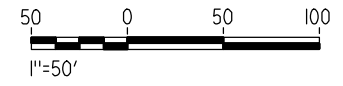
CONTRACT NO.
HST06-007
DRAWING NO.
CT0142-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:23:50 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0143-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1143-A THROUGH CT1145-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

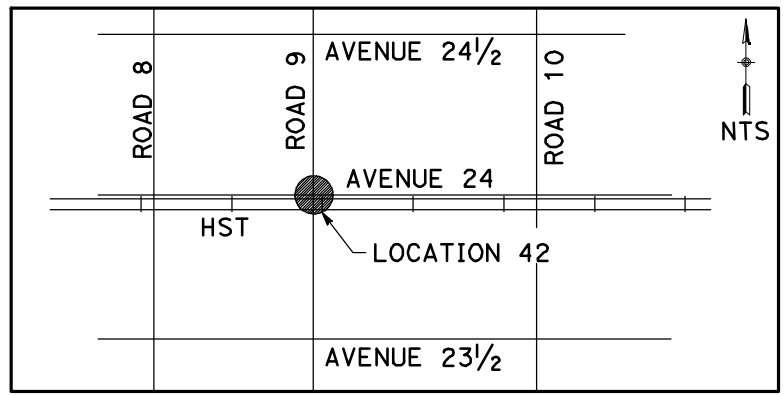
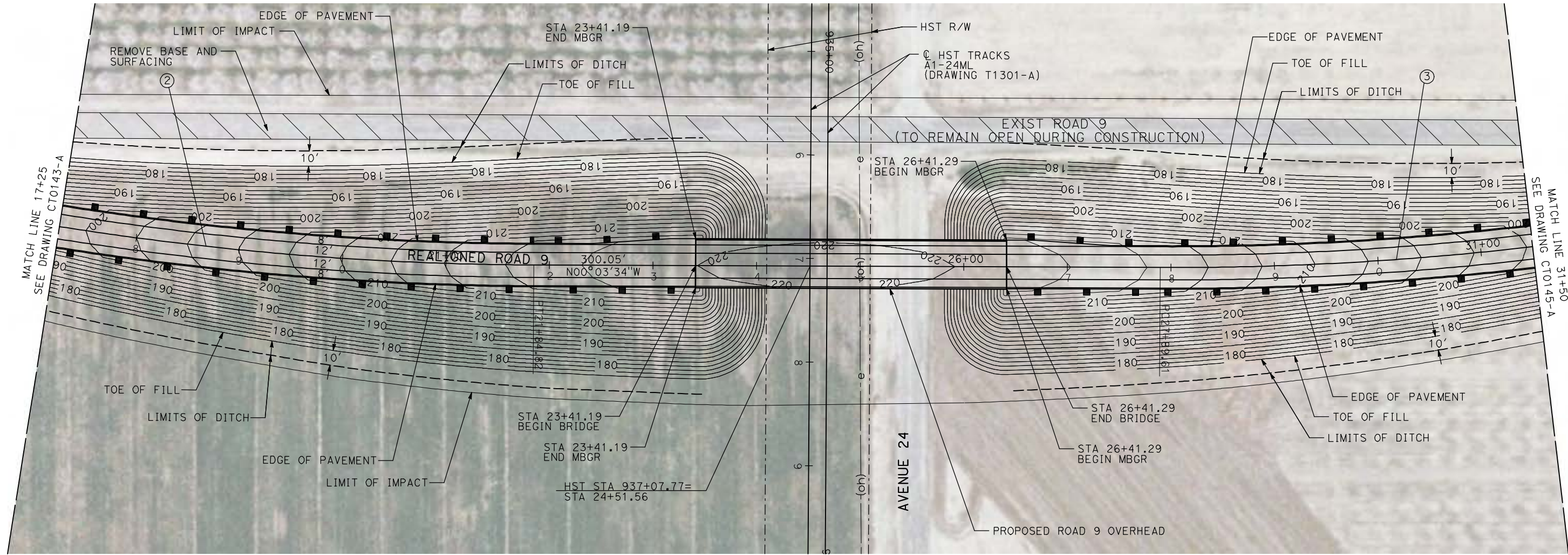
NOT FOR
CONSTRUCTION



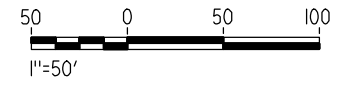
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 9
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0143-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1143-A THROUGH CT1145-A.



GibsonR1 4/29/2011 2:23:56 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\MF-CT-0144-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

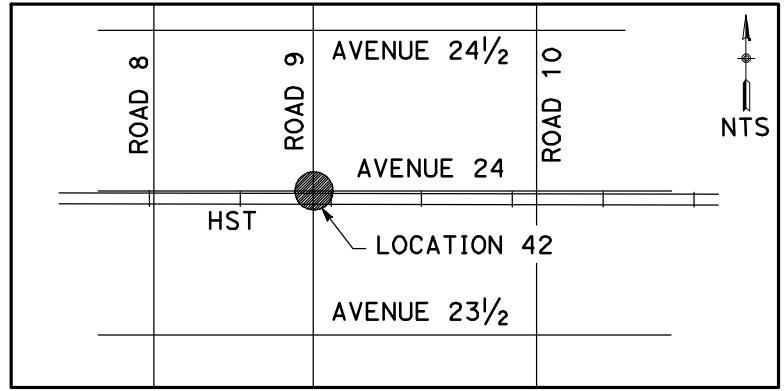
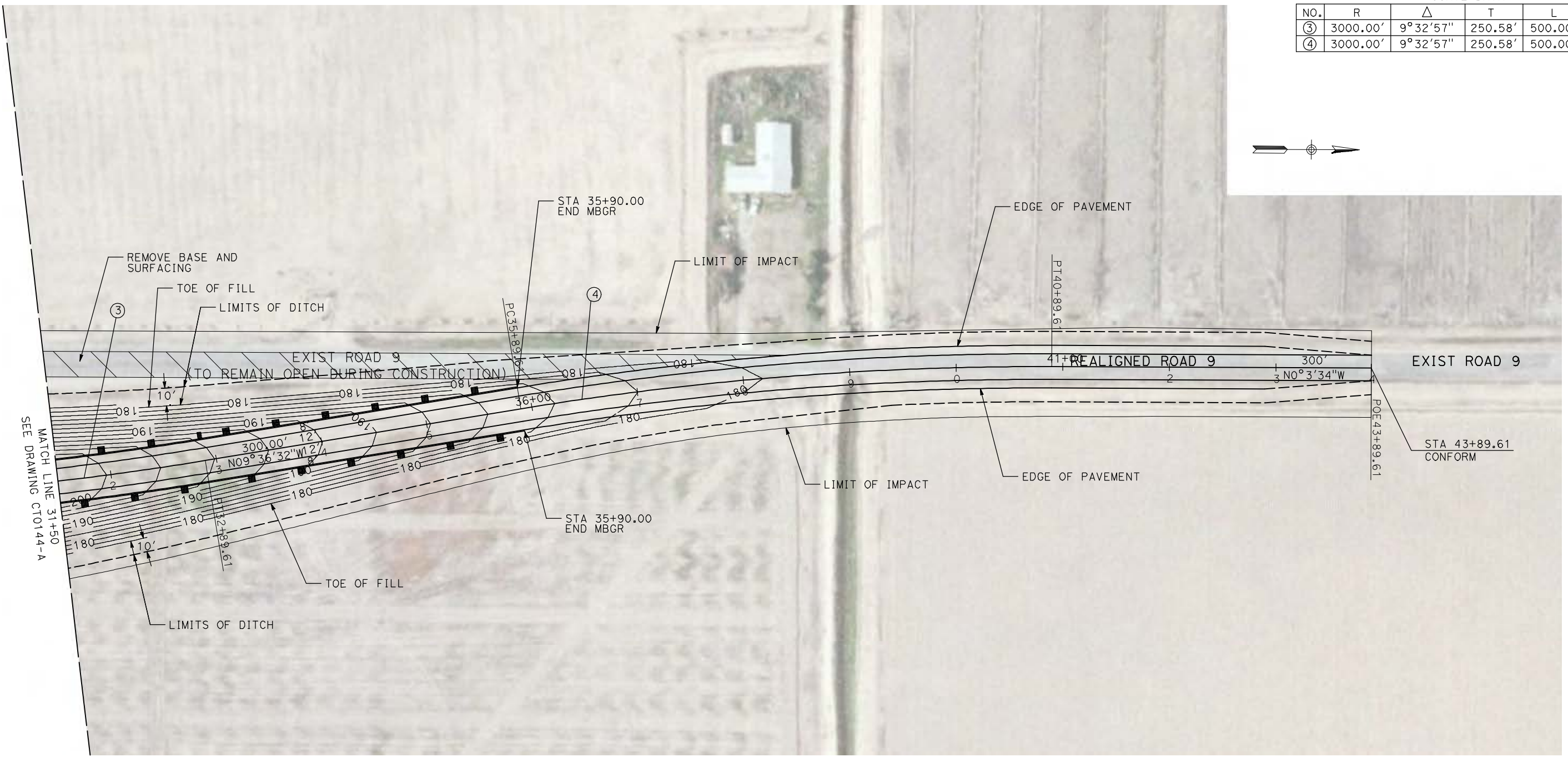


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 9
 LAYOUT
 SHEET 2 OF 3

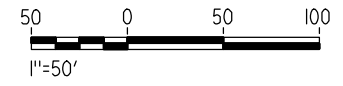
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0144-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:24:07 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Layout\WF-CT-0145-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1143-A THROUGH CT1145-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

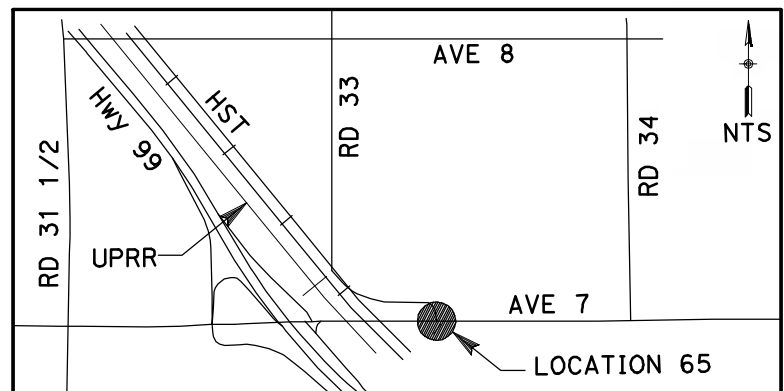
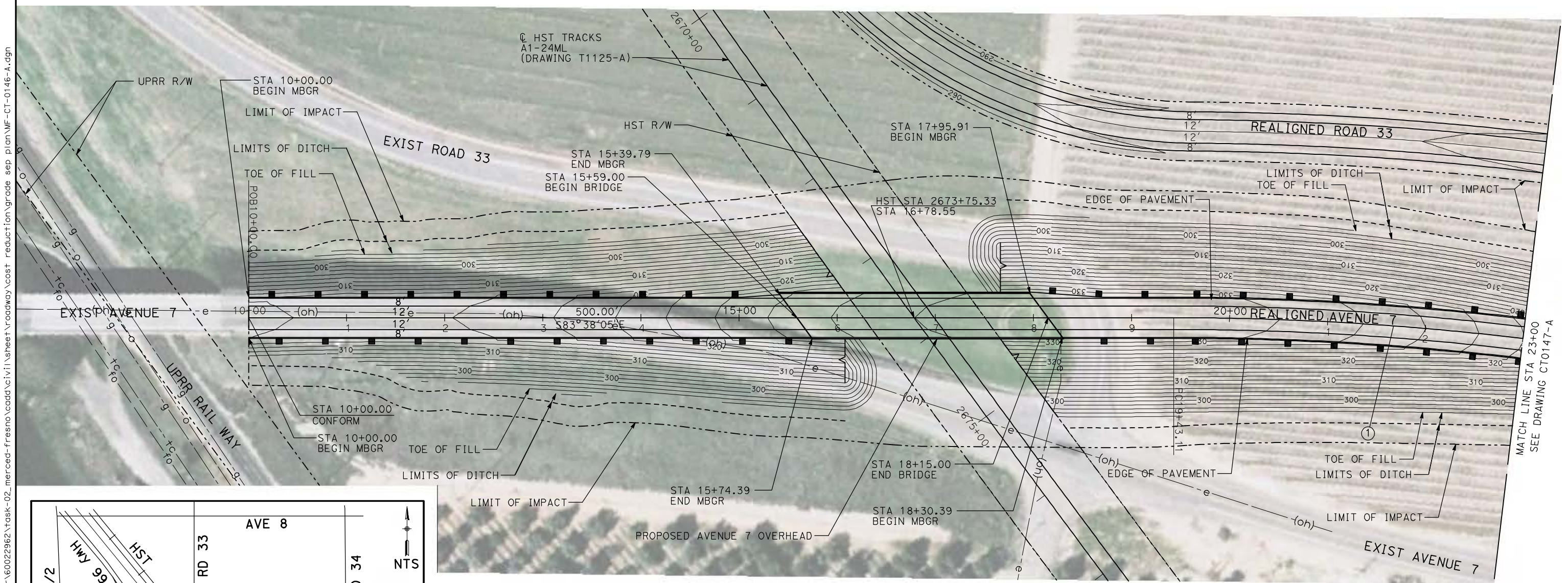
NOT FOR
CONSTRUCTION



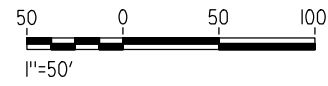
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 9
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0145-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1146-A THROUGH CT1148-A.



4/29/2011 2:34:44 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\cost_reduction\grade_sep_plan\WF-CT-0146-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
A. SILVER
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

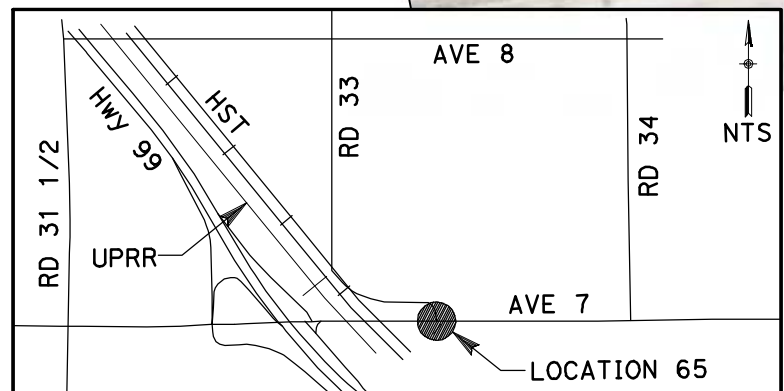
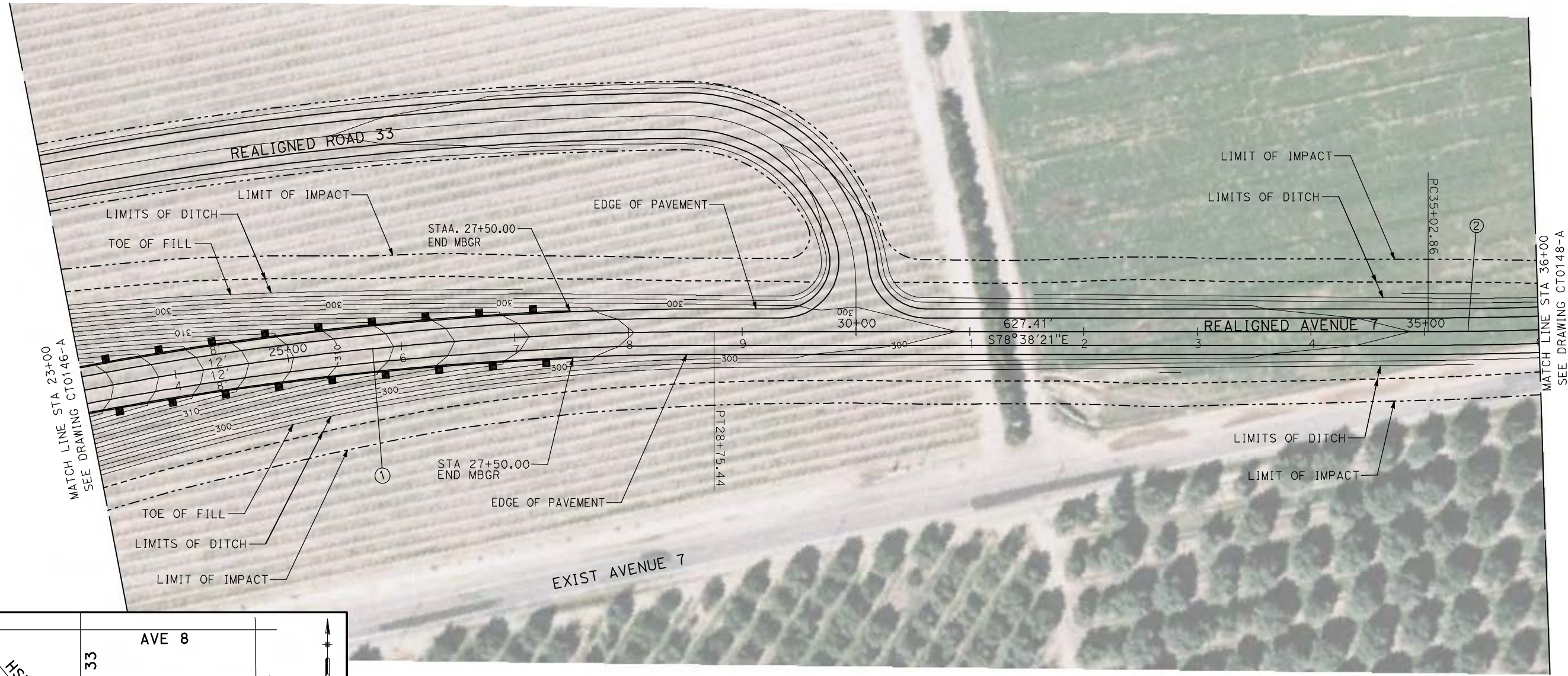


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAINLINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 7
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0146-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

4/29/2011 2:34:53 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\cost_reduction\grade_sep_plan\WF-CT-0147-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	3000.00'	12°10'29"	319.93'	637.46'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1146-A THROUGH CT1148-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
A. SILVER
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



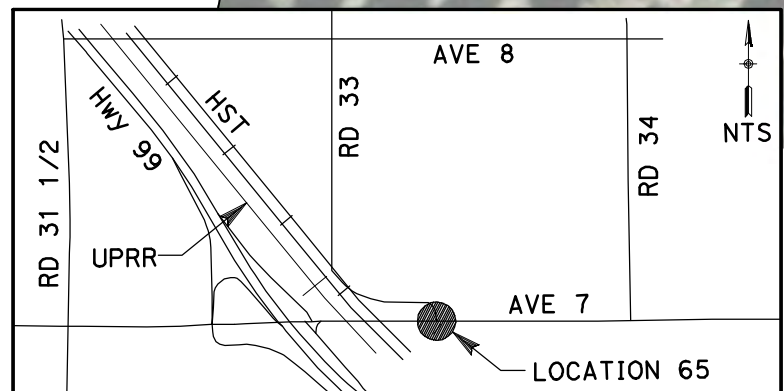
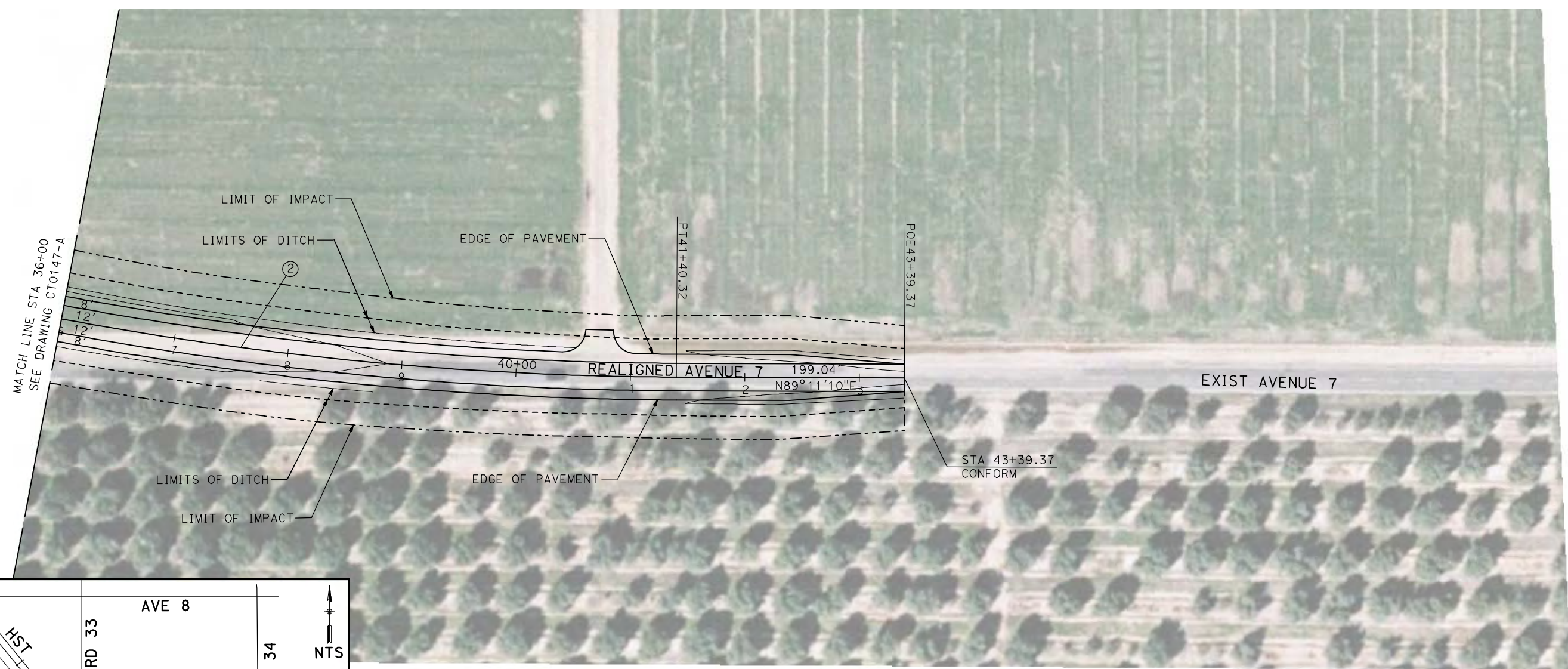
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAINLINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 7
 LAYOUT
 SHEET 2 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0147-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

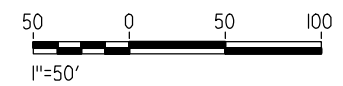
4/29/2011 2:35:01 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\cost_reduction\grade_sep_plan\MF-CT-0148-A.dgn



CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1146-A THROUGH CT1148-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

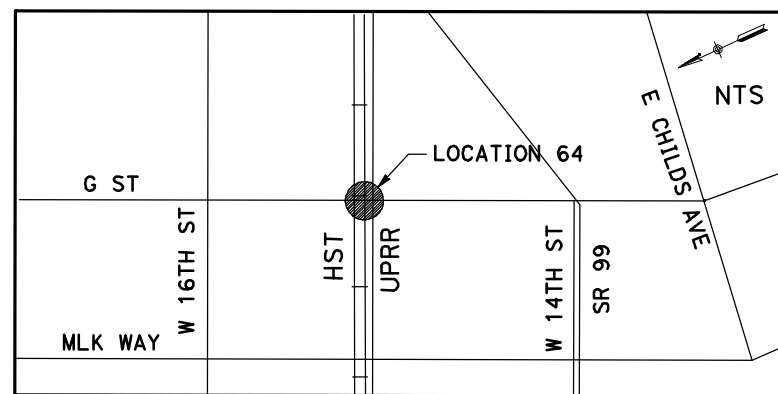
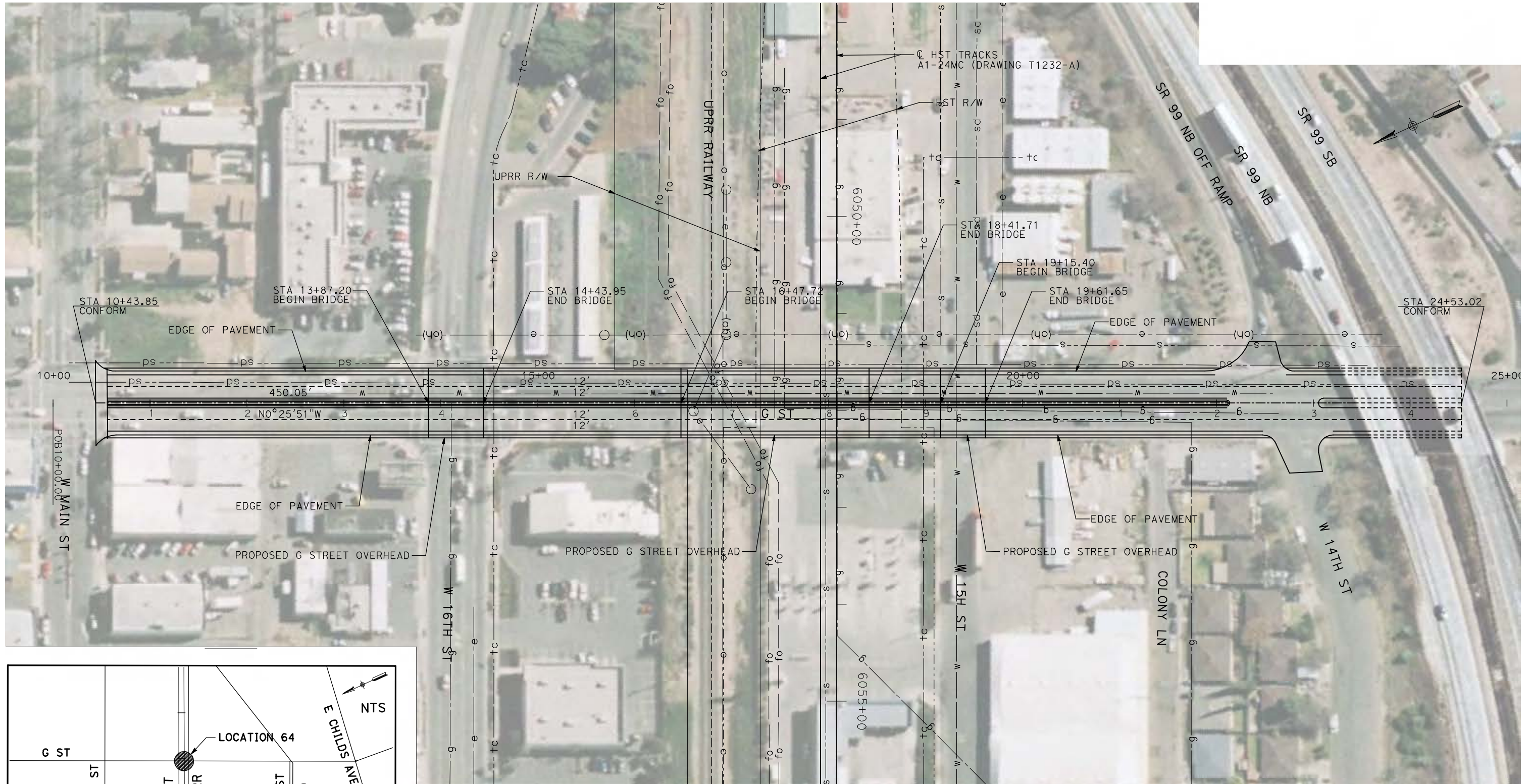
NOT FOR
CONSTRUCTION



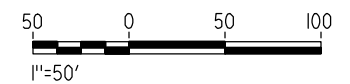
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 7
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0148-A
SCALE
AS SHOWN
SHEET NO.
OF ###

5/2/2011 10:58:21 AM I:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\cost_reduction\Grade_Sep_Plan\MF-CT-0149-A.dgn



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWING CT1149-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

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SUBMITTAL**

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CONSTRUCTION**



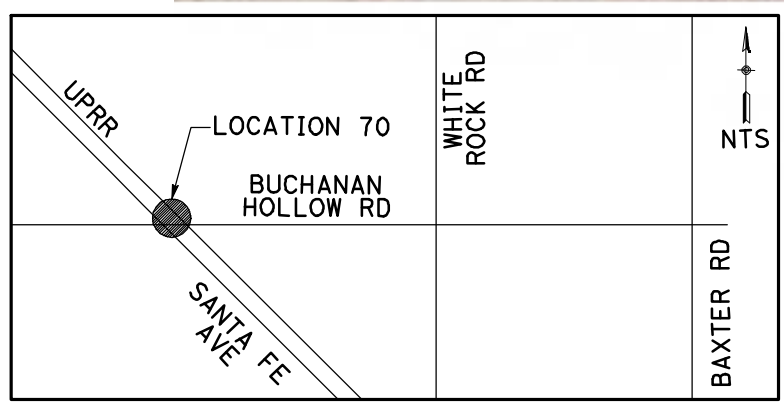
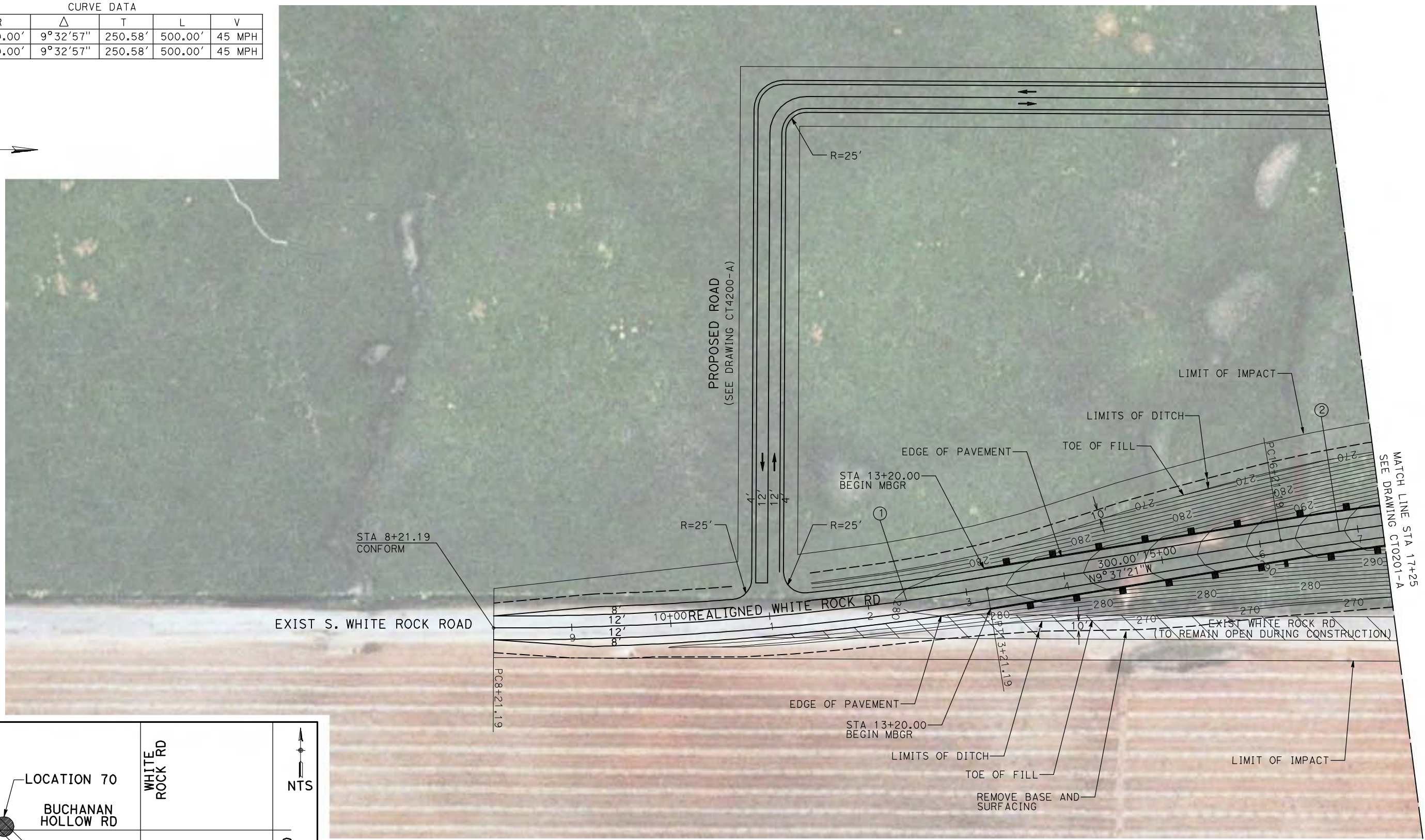
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTOR - AVE 24 WYE
GRADE SEPARATION - G STREET
LAYOUT
SHEET 1 OF 1

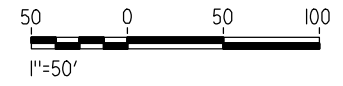
CONTRACT NO.
HST06-007
DRAWING NO.
CT0149-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:41:06 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc01\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0200-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1200-A THROUGH CT1202-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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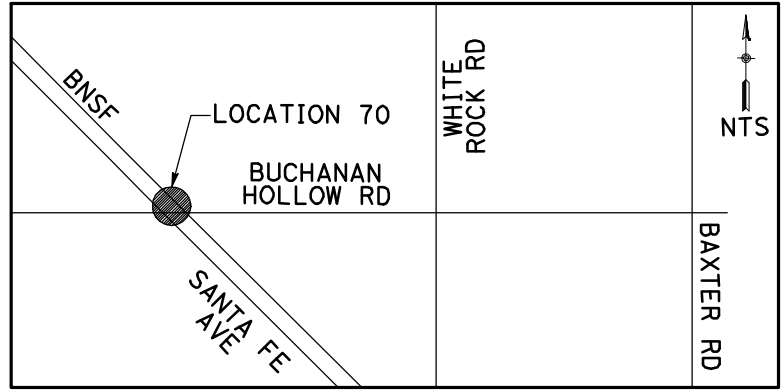
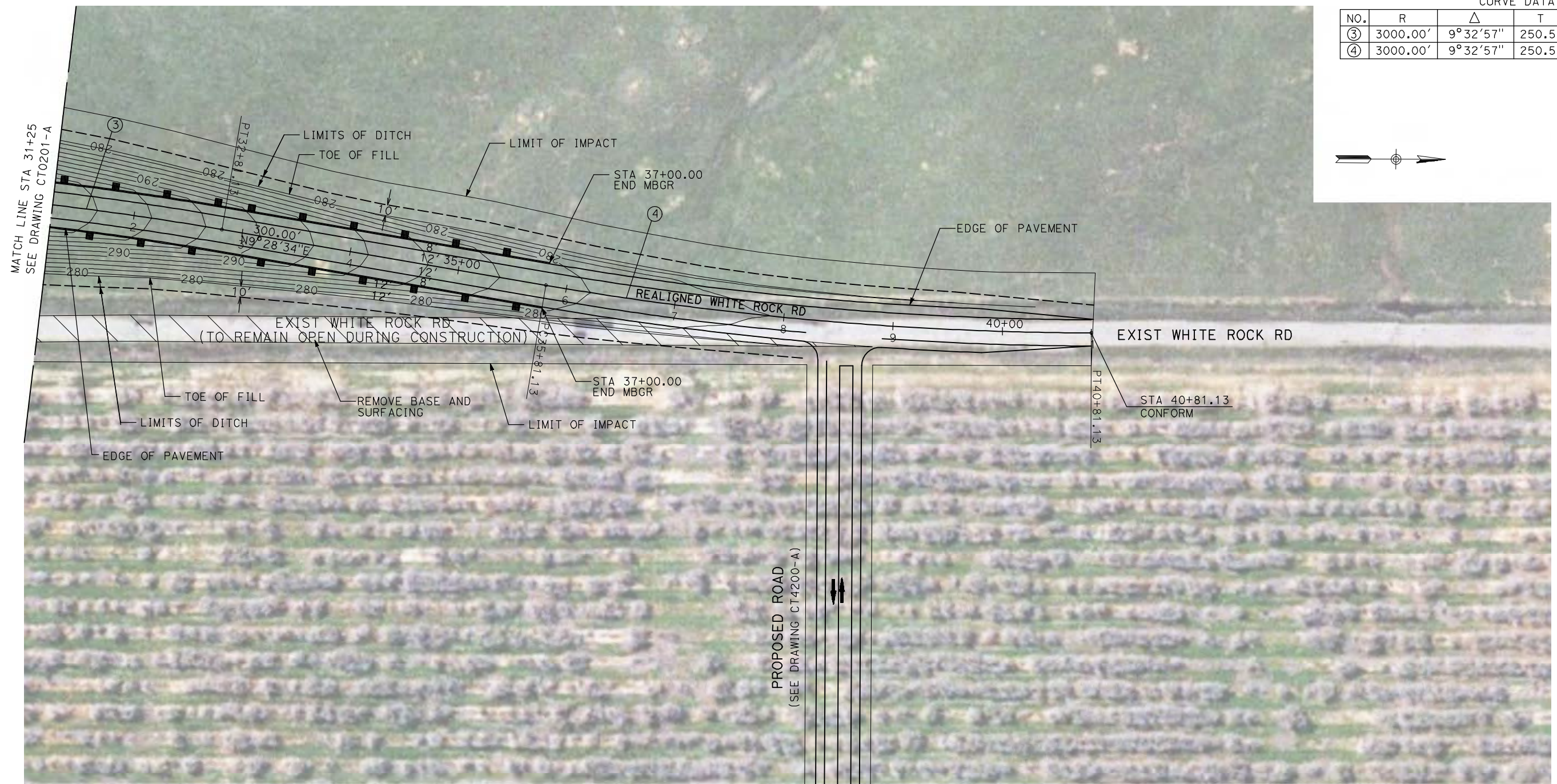
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. WHITE ROCK RD
LAYOUT
SHEET 1 OF 3

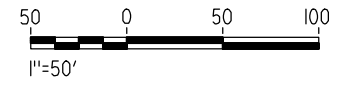
CONTRACT NO.
HST06-007
DRAWING NO.
CT0200-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:41:14 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124M01\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0202-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1200-A THROUGH CT1202-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



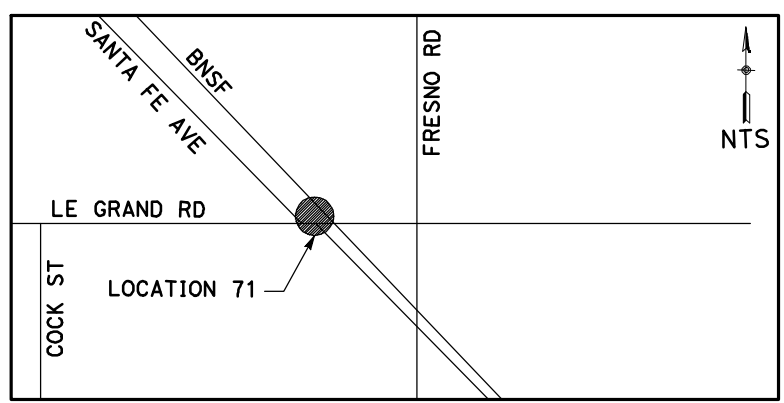
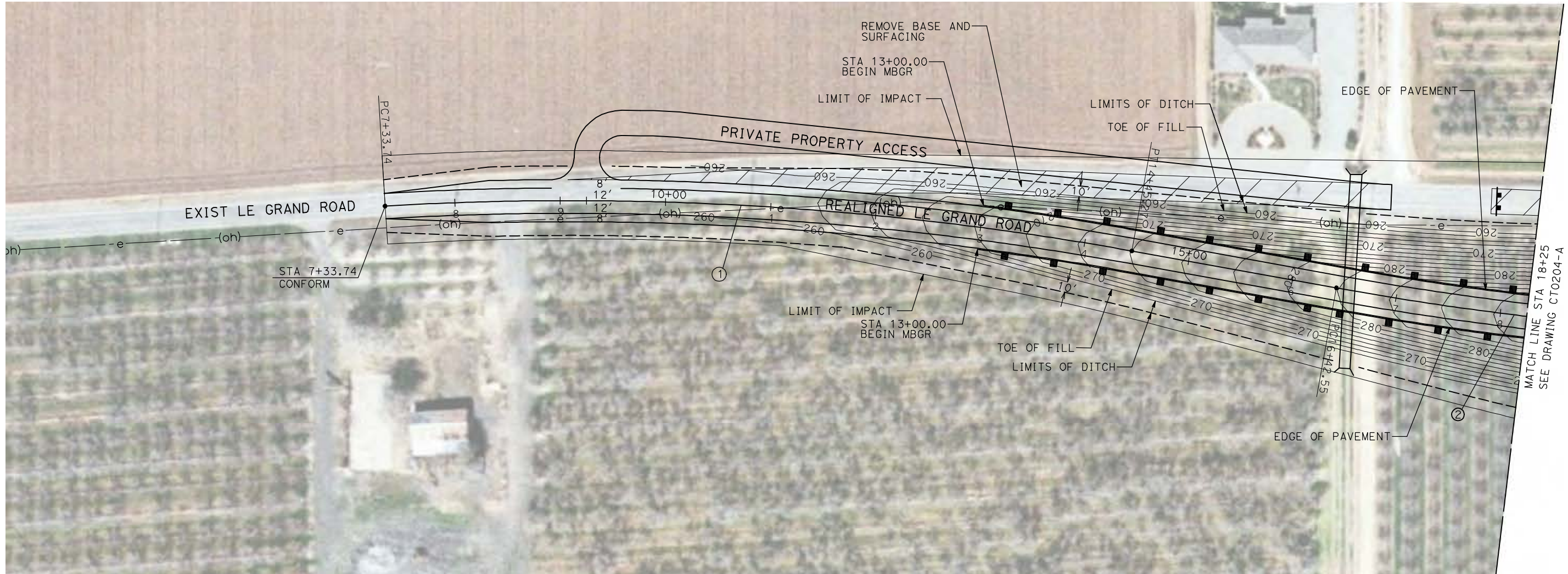
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. WHITE ROCK RD
LAYOUT
SHEET 3 OF 3

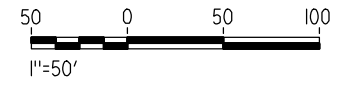
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DRAWING NO.	CT0202-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

4/29/2011 2:41:21 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0203-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1203-A THROUGH CT1205-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

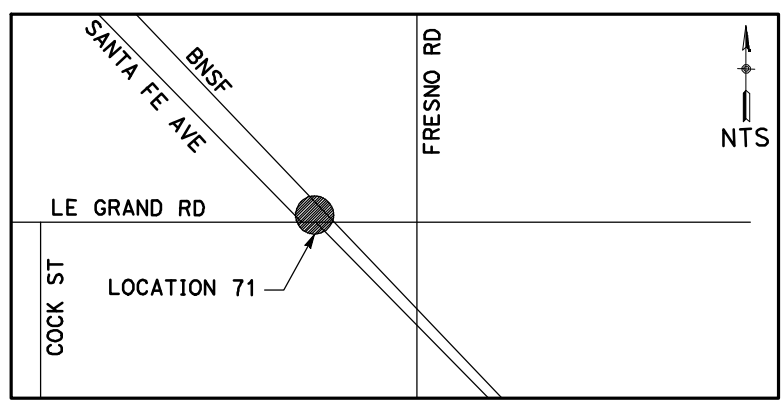
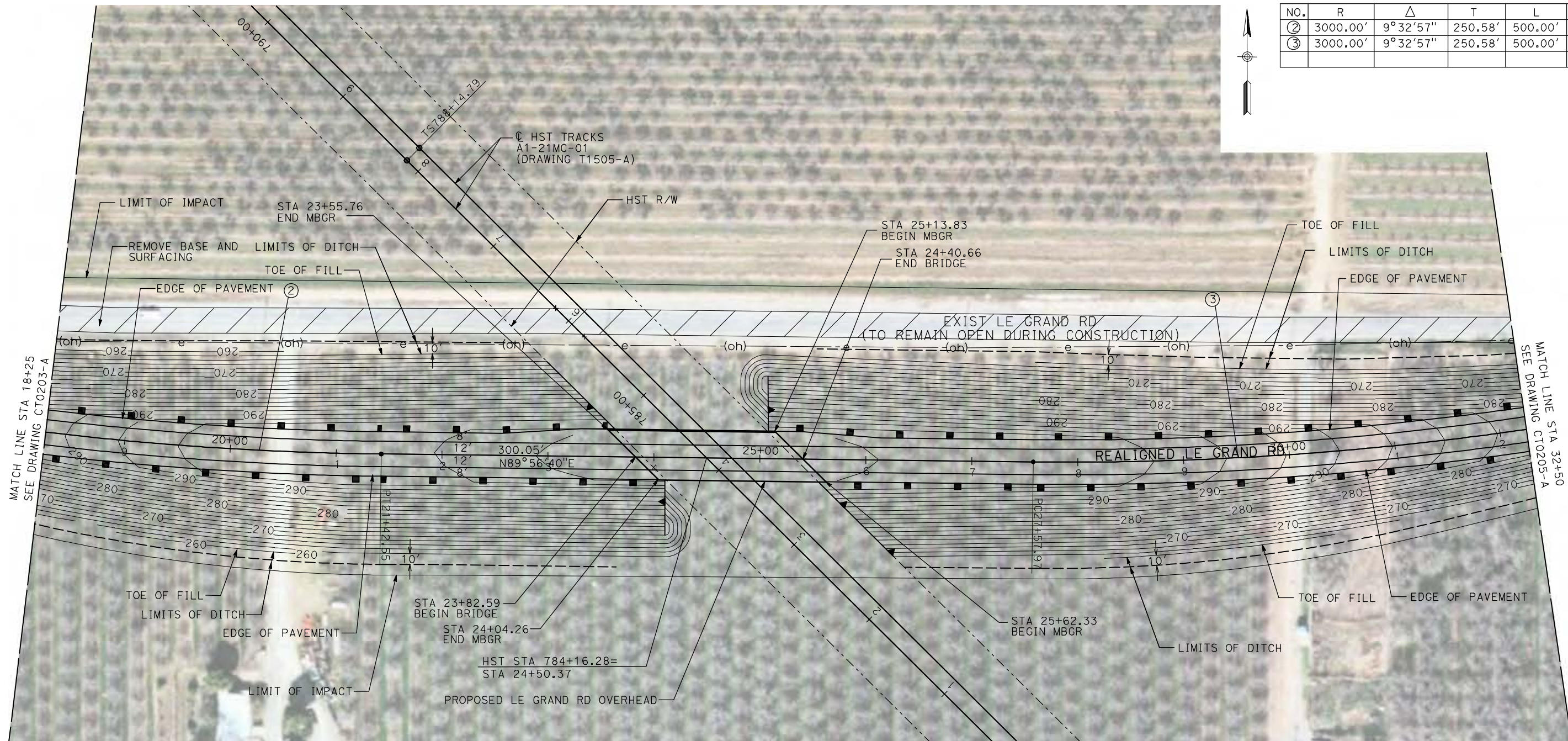


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 1 OF 3

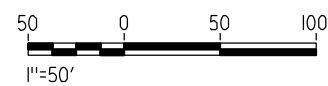
CONTRACT NO.
HST06-007
DRAWING NO.
CT0203-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:41:28 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc01\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0204-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1203-A THROUGH CT1205-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

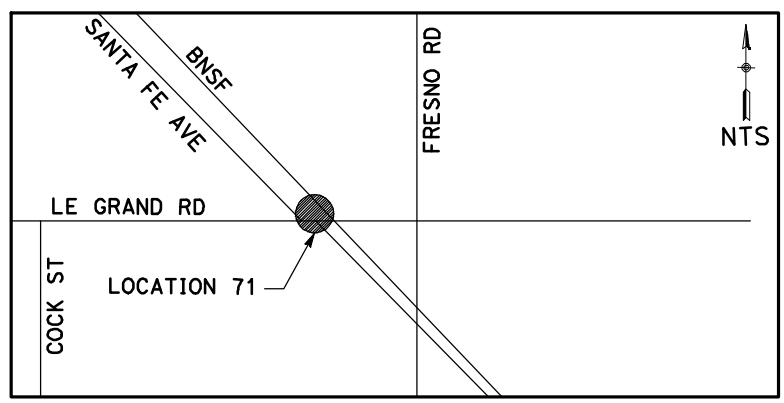
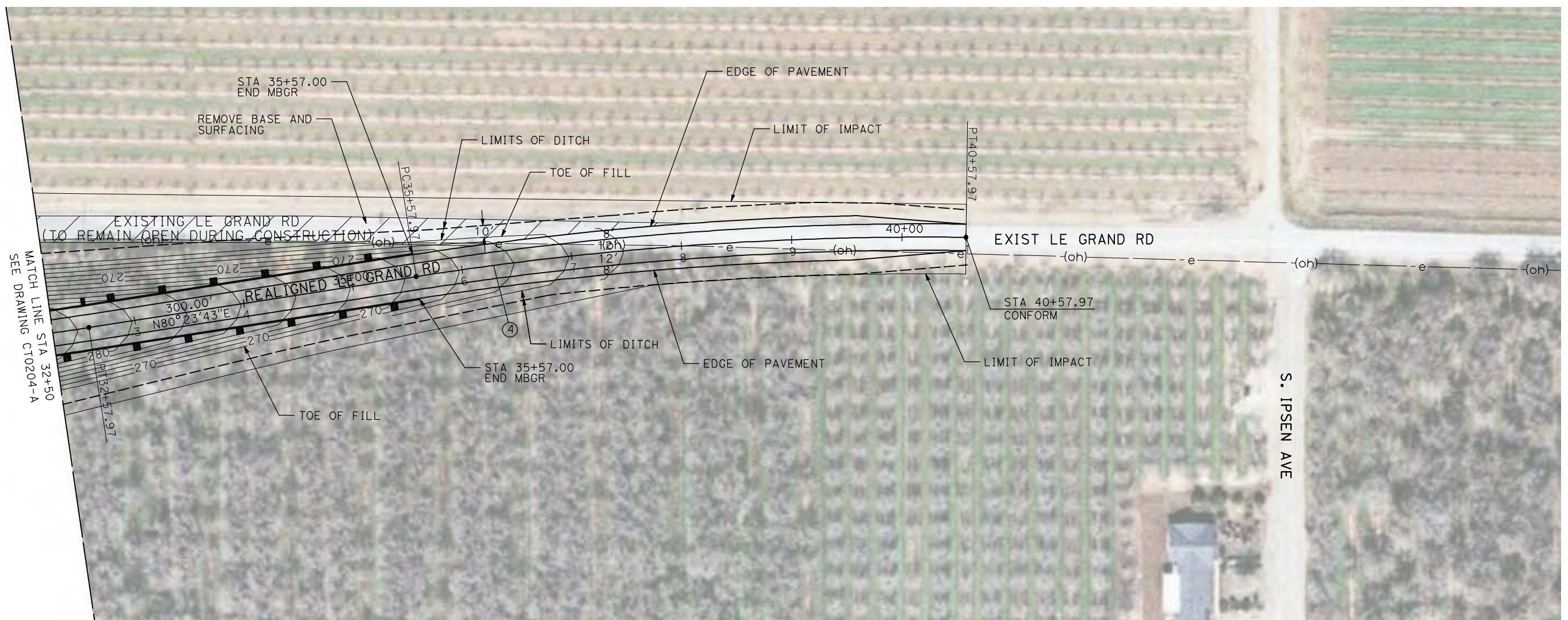
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0204-A
SCALE
AS SHOWN
SHEET NO.
OF

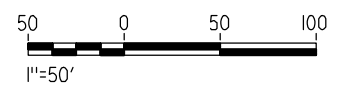
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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1203-A THROUGH CT1205-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

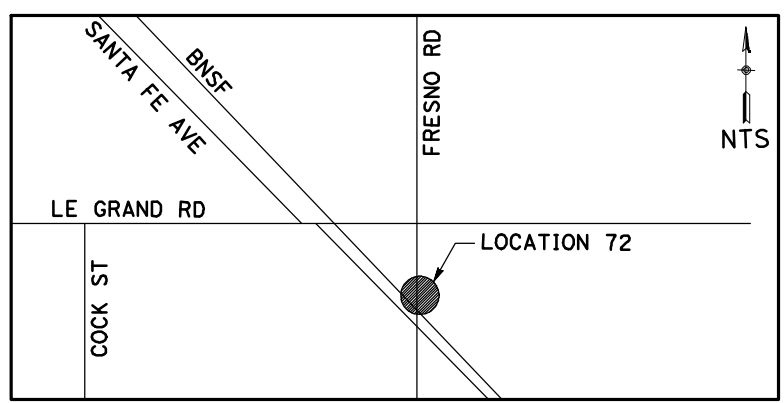
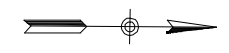


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - LE GRAND RD
 LAYOUT
 SHEET 3 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0205-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:41:43 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc01\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0206-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1206-A THROUGH CT1208-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

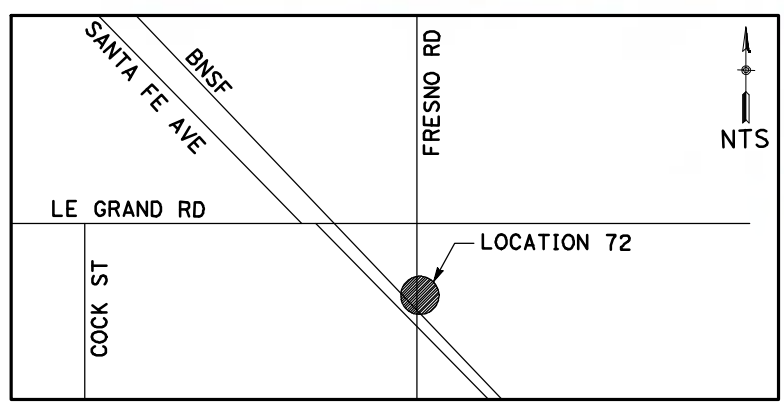
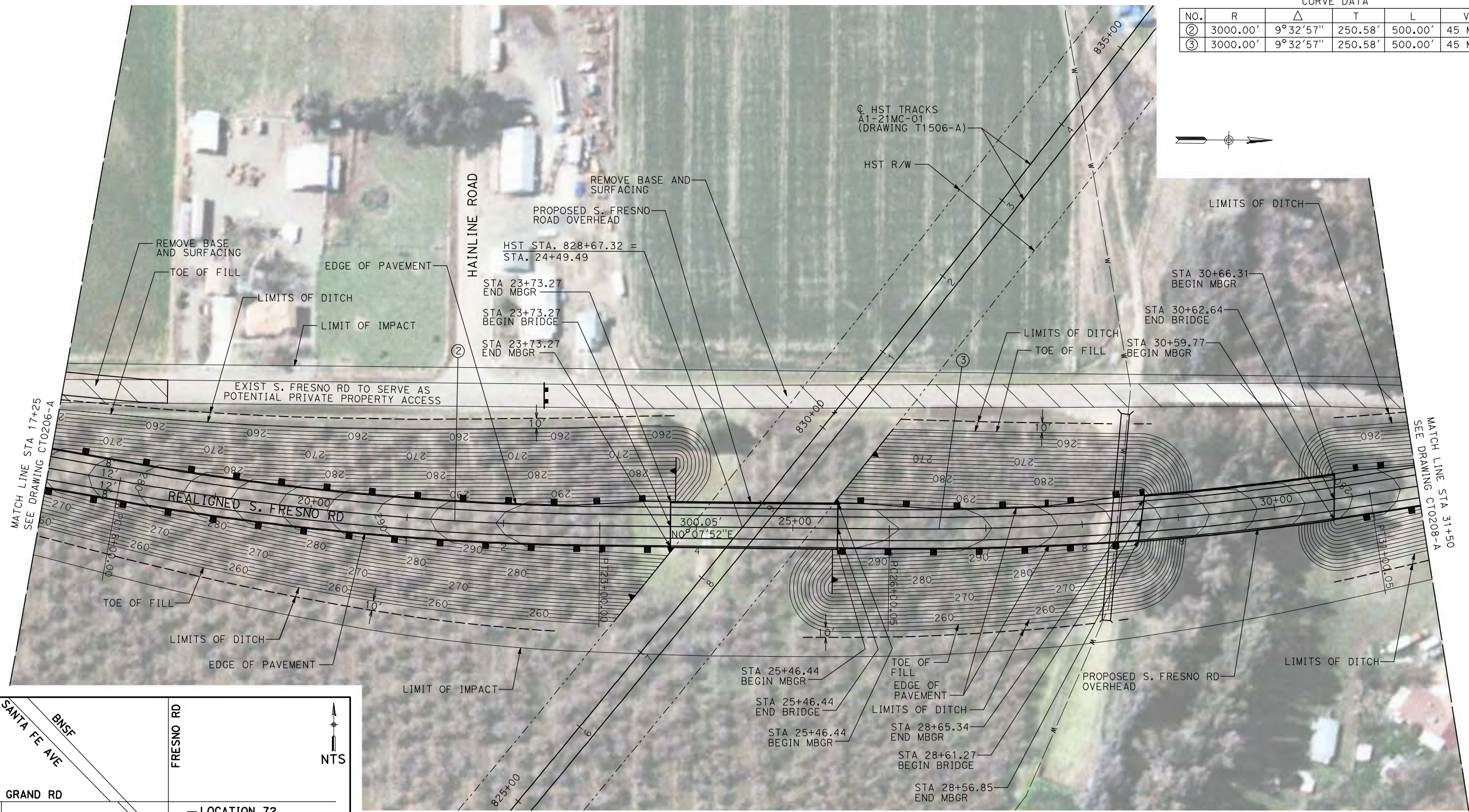


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 1 OF 3

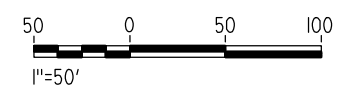
CONTRACT NO.
HST06-007
DRAWING NO.
CT0206-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:41:51 PM I:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc01\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0207-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1206-A THROUGH CT1208-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



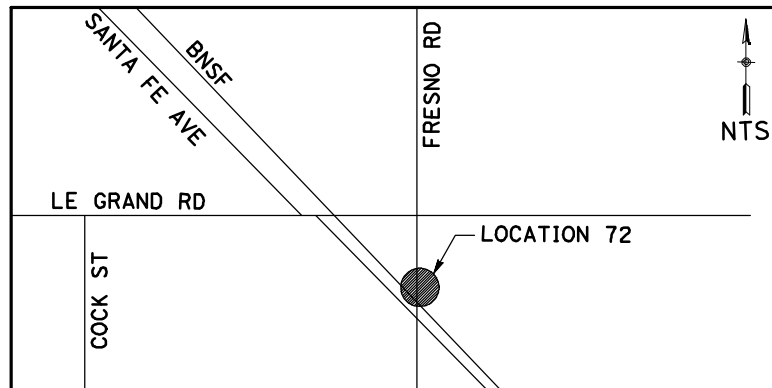
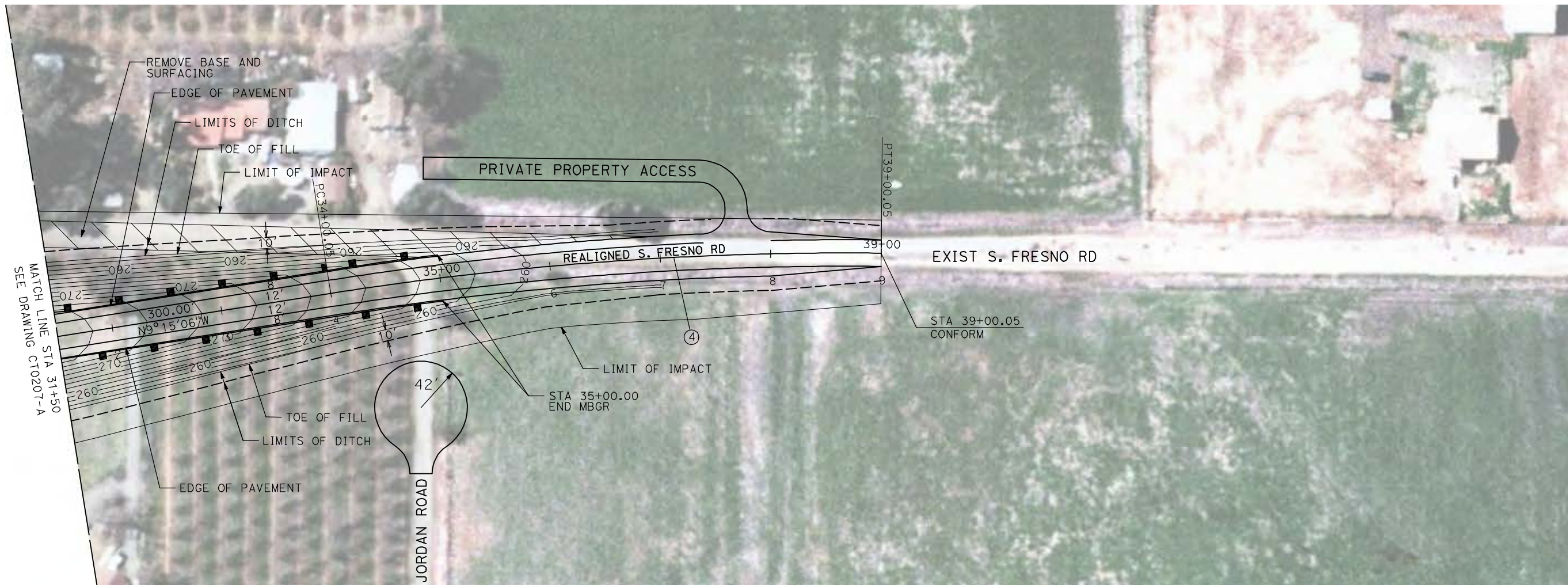
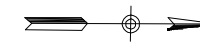
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 2 OF 3

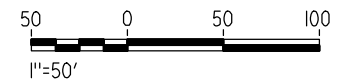
CONTRACT NO.
HST06-007
DRAWING NO.
CT0207-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:41:59 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0208-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1206-A THROUGH CT1208-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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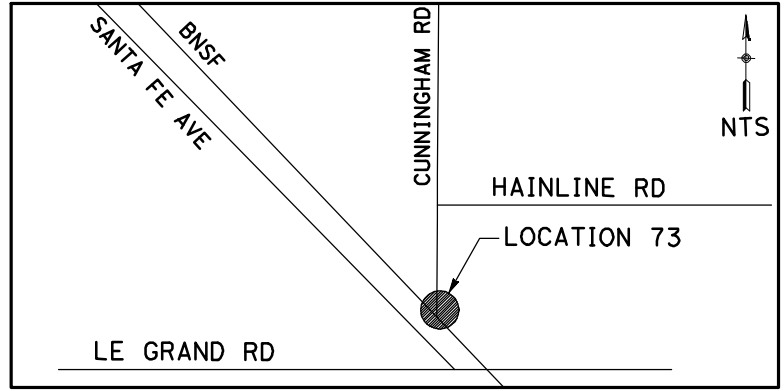
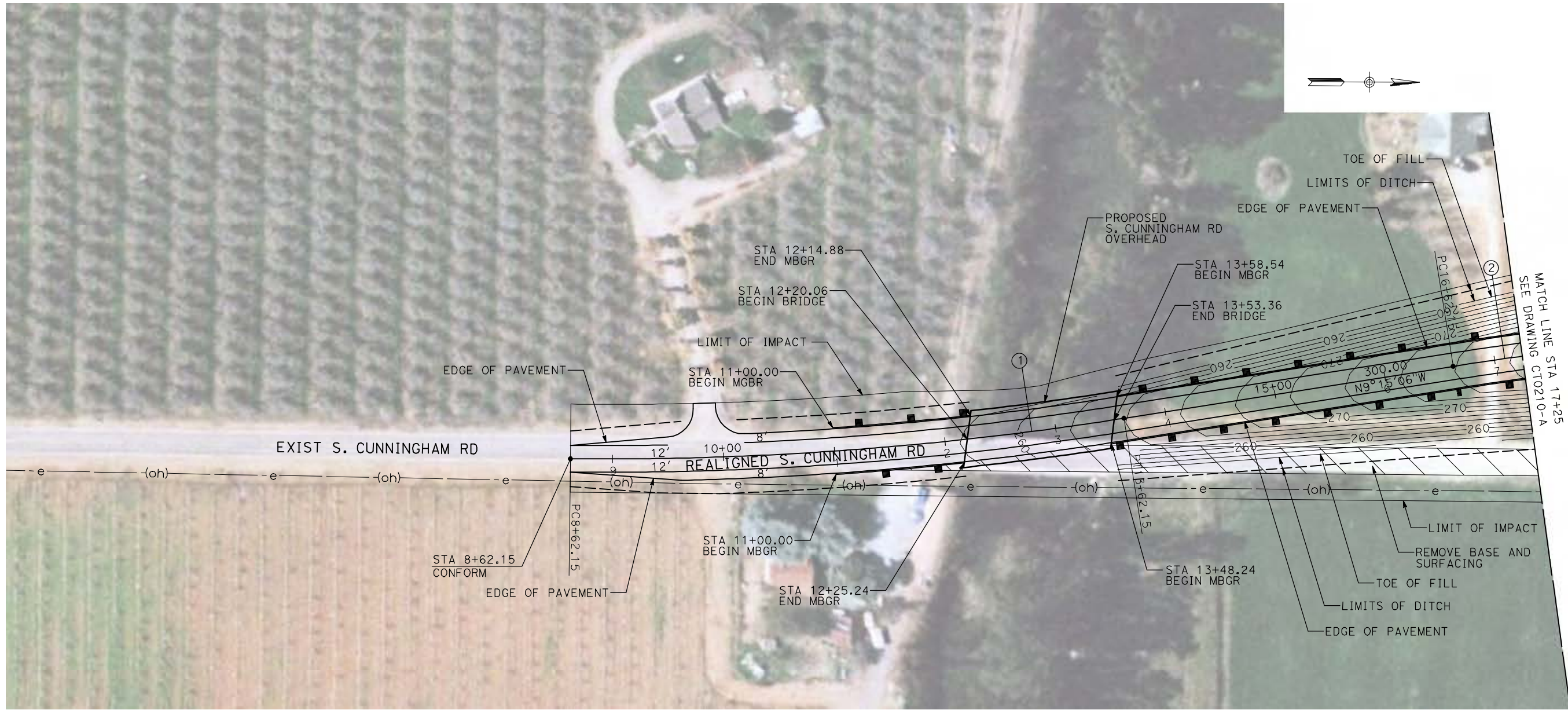
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 3 OF 3

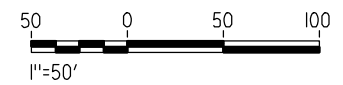
CONTRACT NO.
HST06-007
DRAWING NO.
CT0208-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:42:06 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0209-A.dgn

CURVE DATA				
NO.	R	Δ	T	V
①	3000.00'	9°32'57"	250.58'	45 MPH
②	3000.00'	9°32'57"	250.58'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1209-A THROUGH CT1211-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
A. BOONE
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04/29/2011

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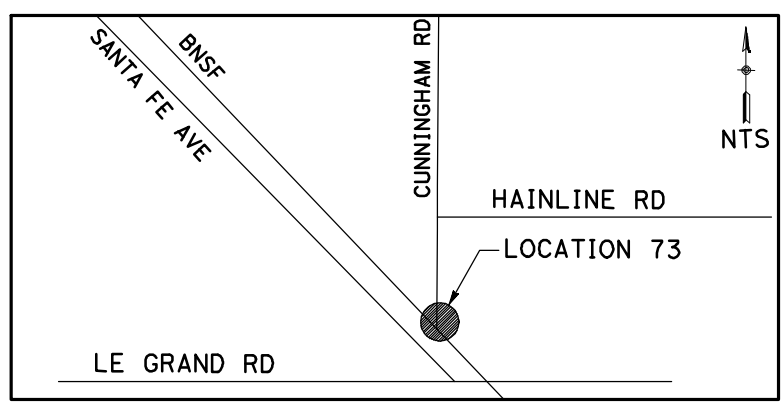
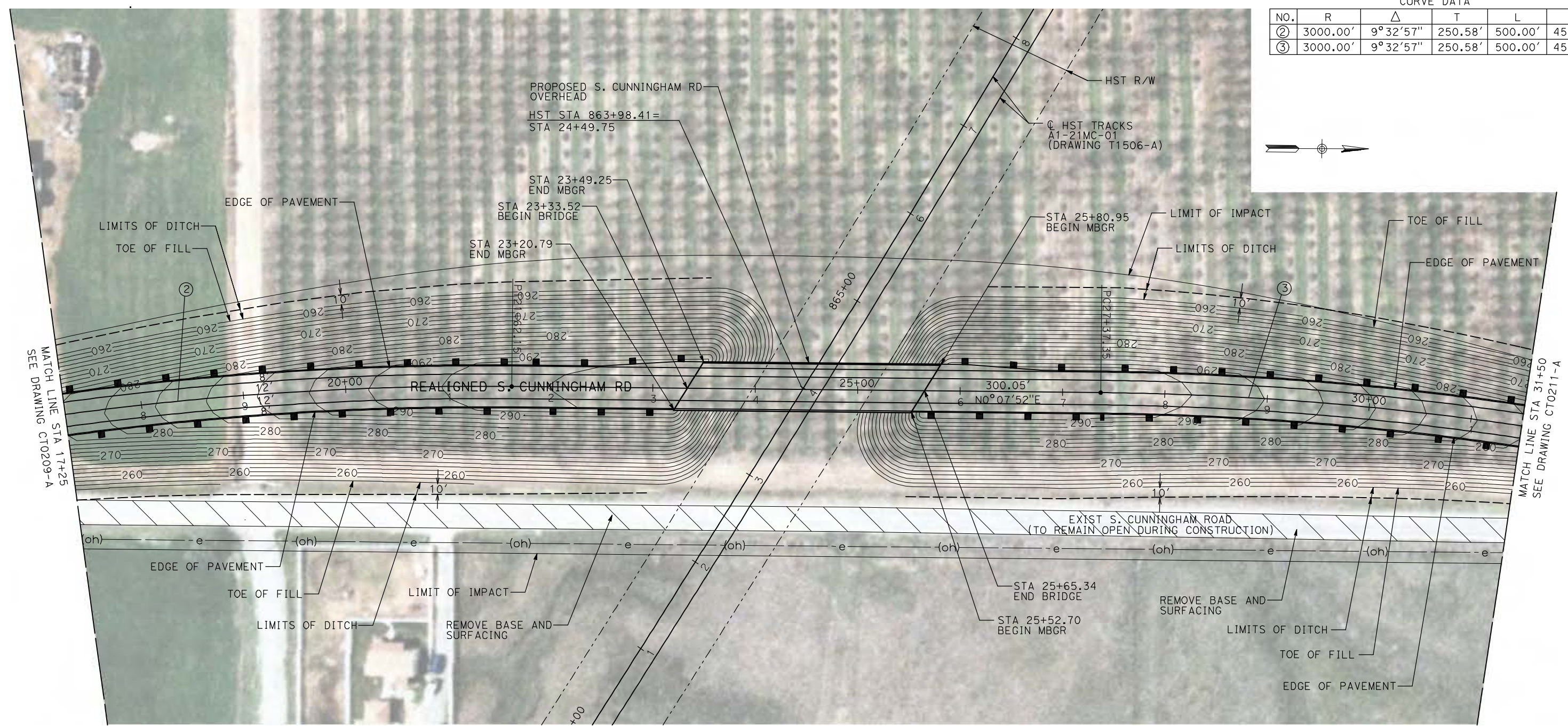
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 1 OF 3

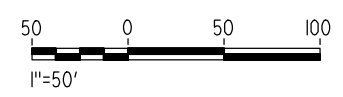
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HST06-007
DRAWING NO.
CT0209-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:42:13 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-A-Ave2124Mc01\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0210-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1209-A THROUGH CT1211-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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IN CHARGE
A. BOONE
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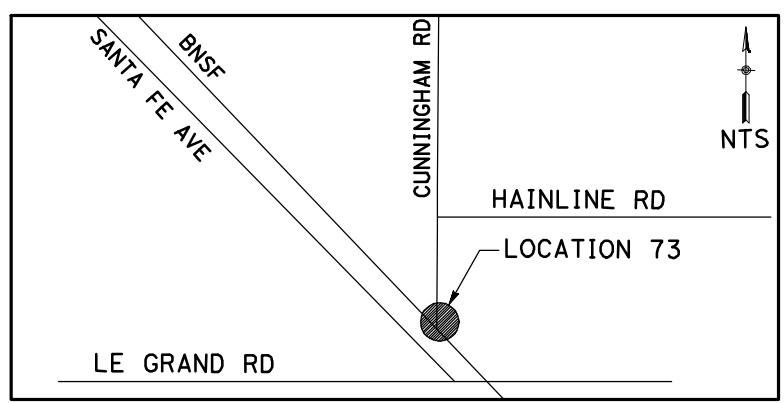
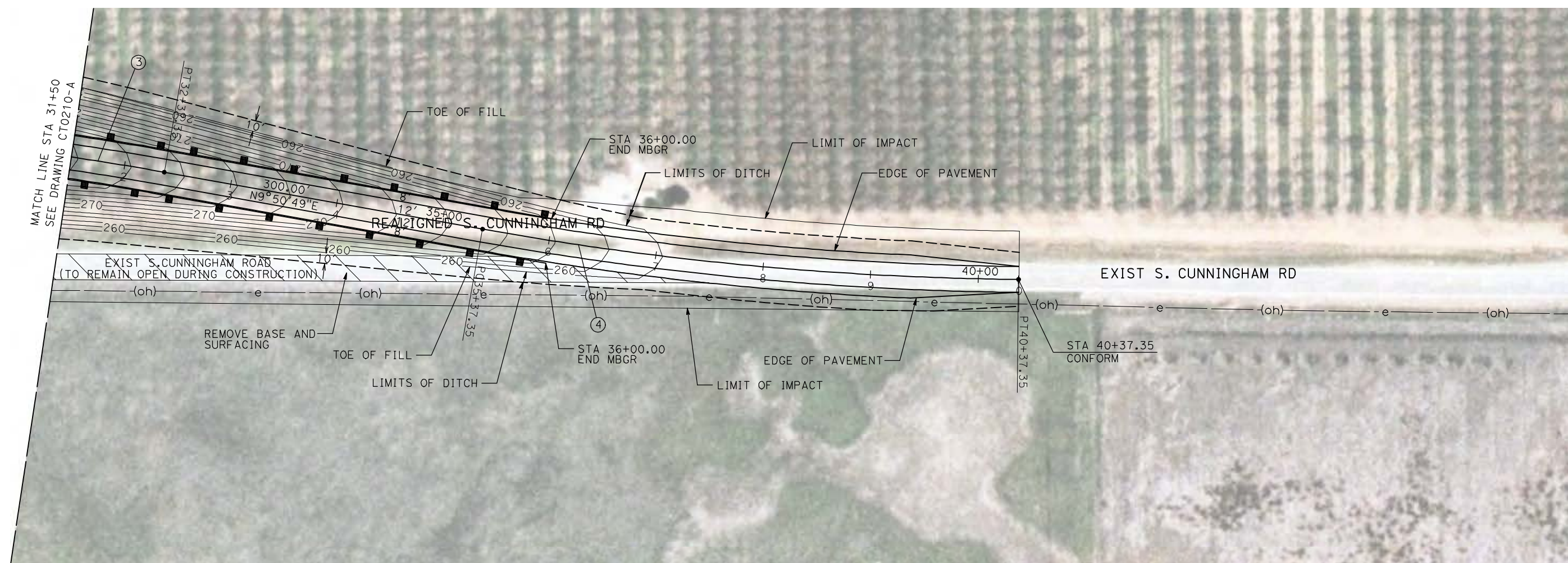
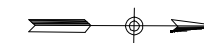
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 2 OF 3

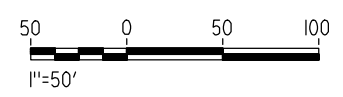
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HST06-007
DRAWING NO.
CT0210-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1209-A THROUGH CT1211-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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IN CHARGE
A. BOONE
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04/29/2011

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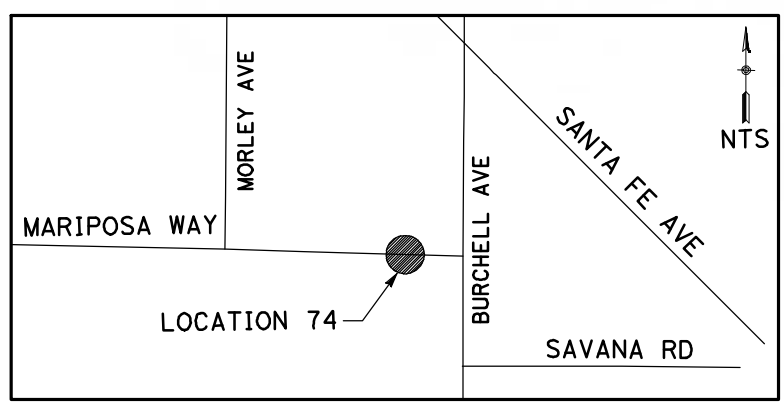
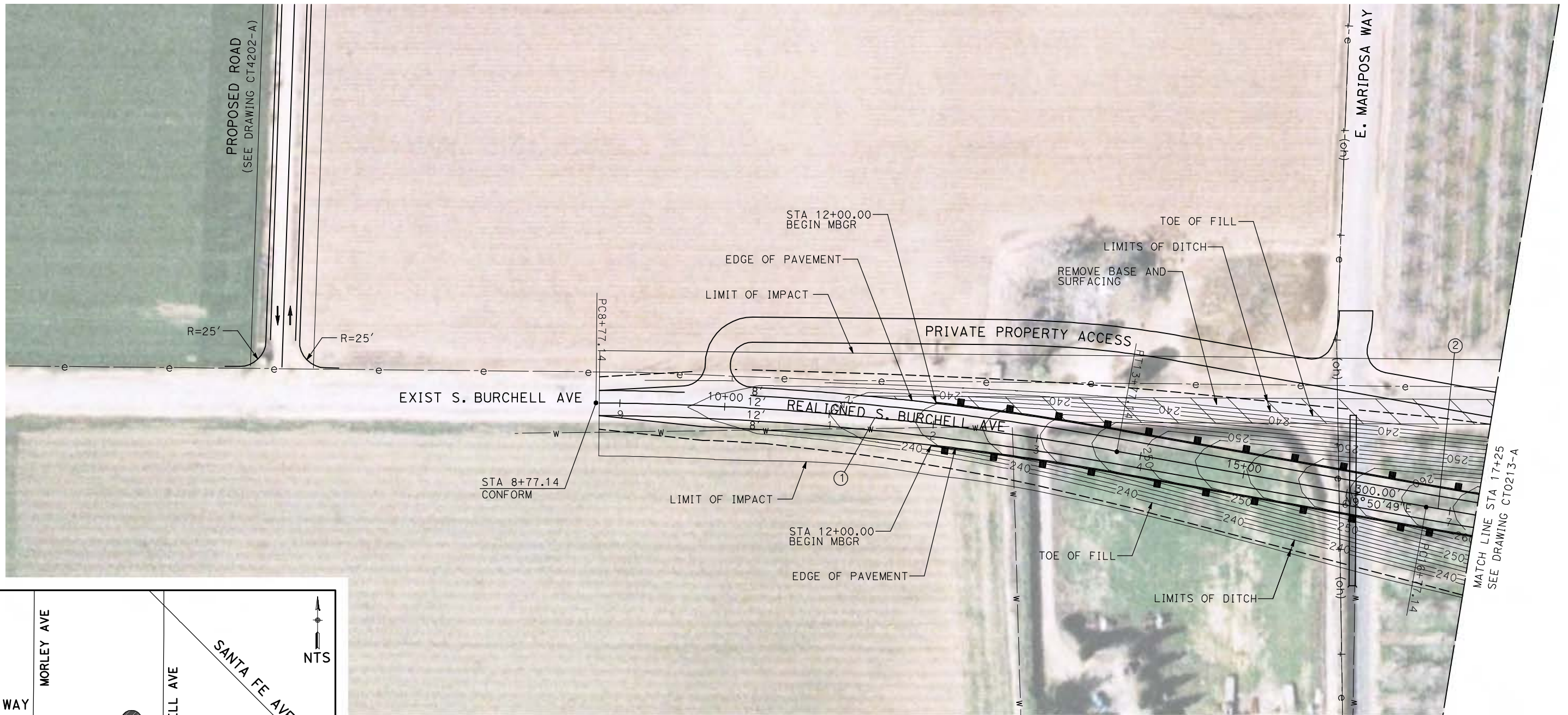
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 3 OF 3

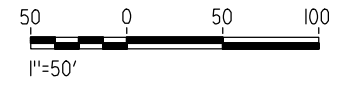
CONTRACT NO.
HST06-007
DRAWING NO.
CT0211-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:42:28 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc01\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0212-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1212-A THROUGH CT1214-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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04/29/2011

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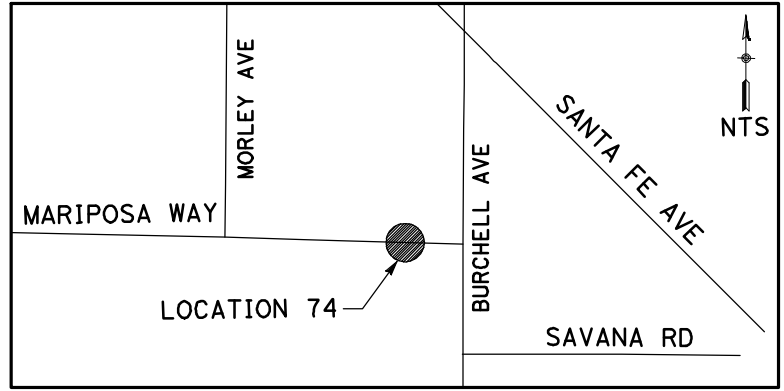
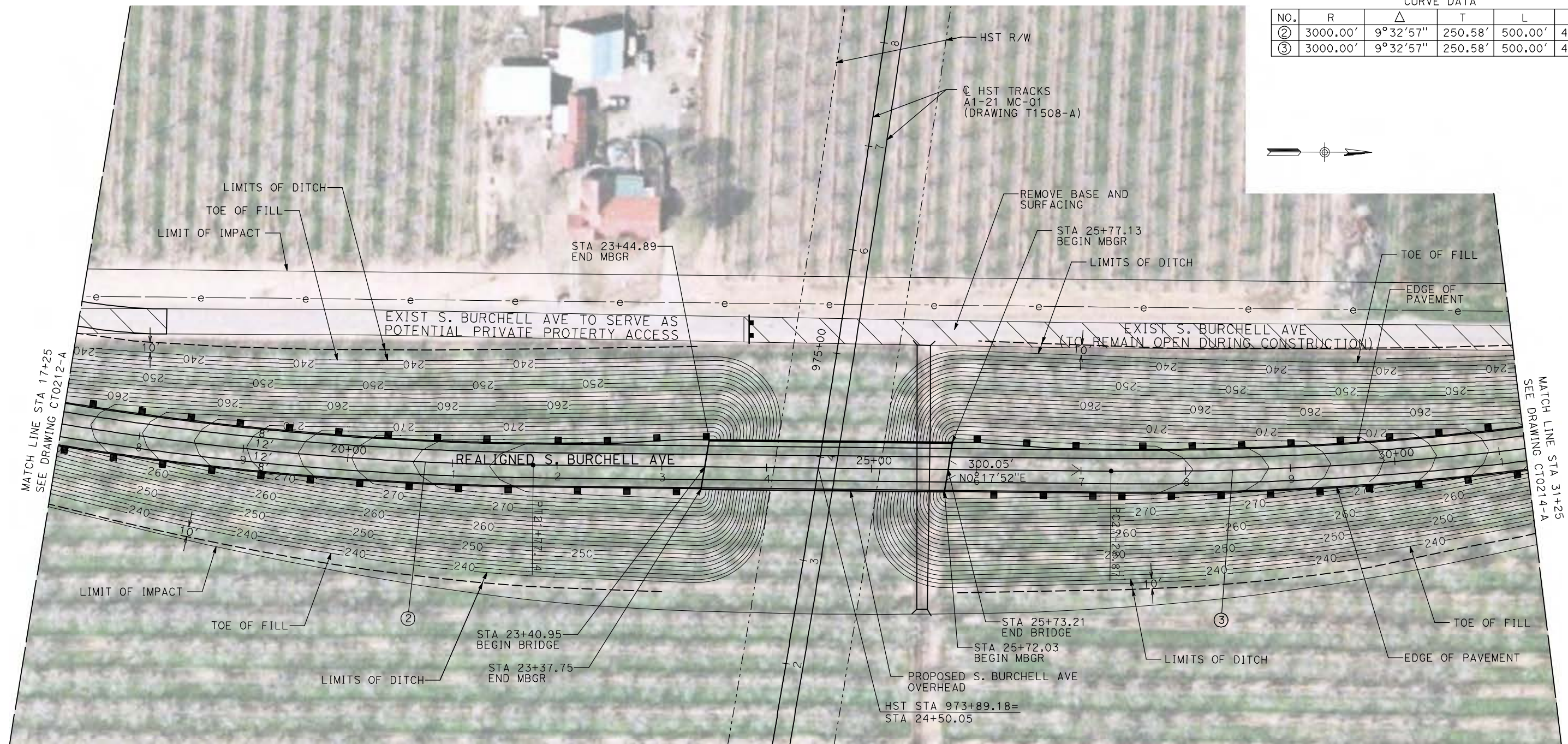


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. BURCHELL AVE
LAYOUT
SHEET 1 OF 3

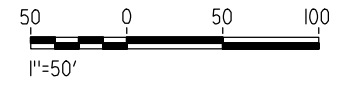
CONTRACT NO.
HST06-007
DRAWING NO.
CT0212-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1212-A THROUGH CT1214-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
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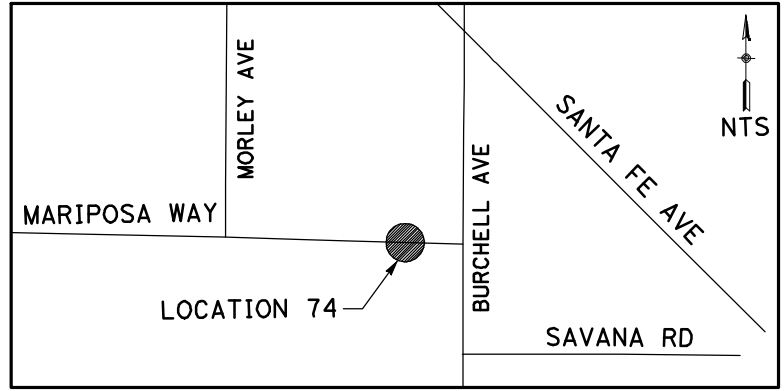
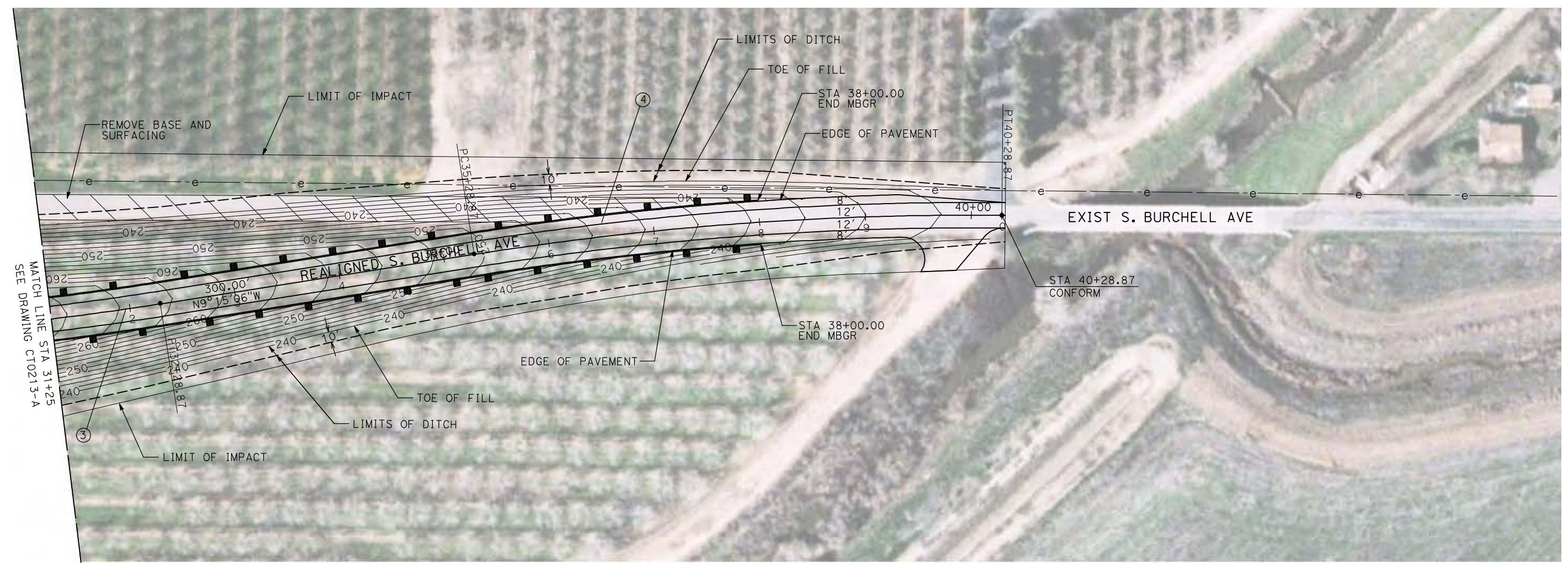
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. BURCHELL AVE
LAYOUT
SHEET 2 OF 3

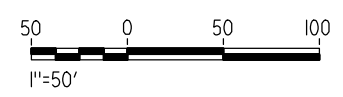
CONTRACT NO.
HST06-007
DRAWING NO.
CT0213-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:42:46 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0214-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1212-A THROUGH CT1214-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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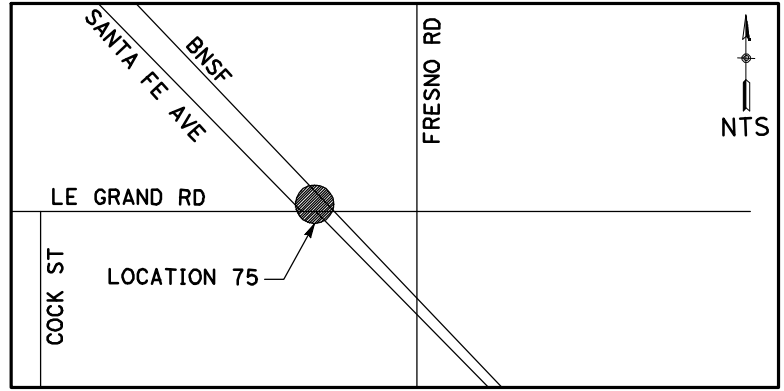
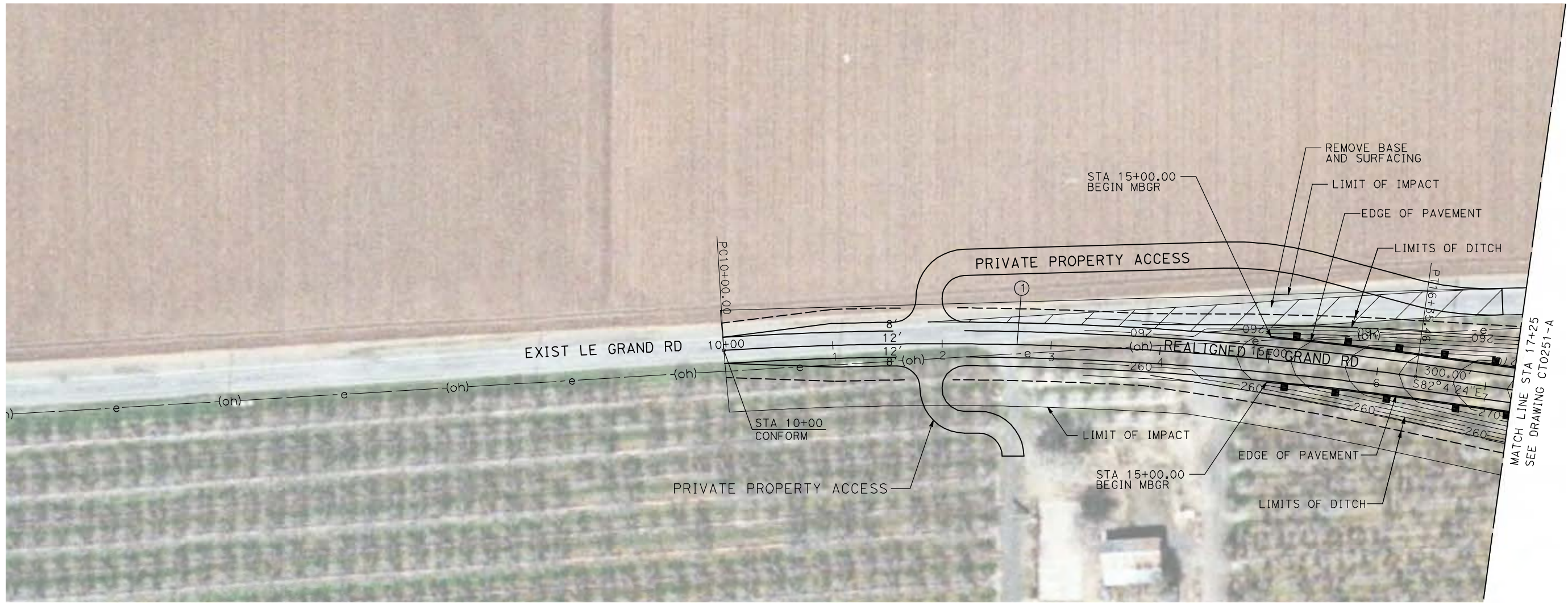
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. BURCHELL AVE
LAYOUT
SHEET 3 OF 3

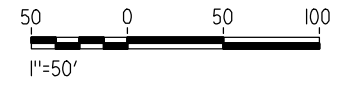
CONTRACT NO.
HST06-007
DRAWING NO.
CT0214-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:48:40 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124M02\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0250-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3200.00'	11°22'41"	318.78'	635.46'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1250-A THROUGH CT1252-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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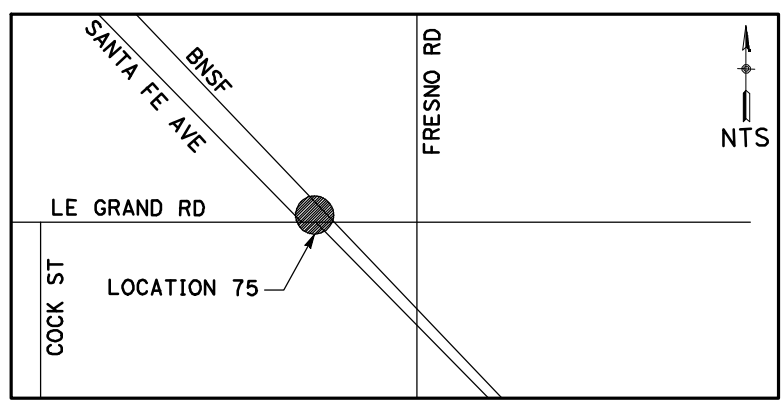
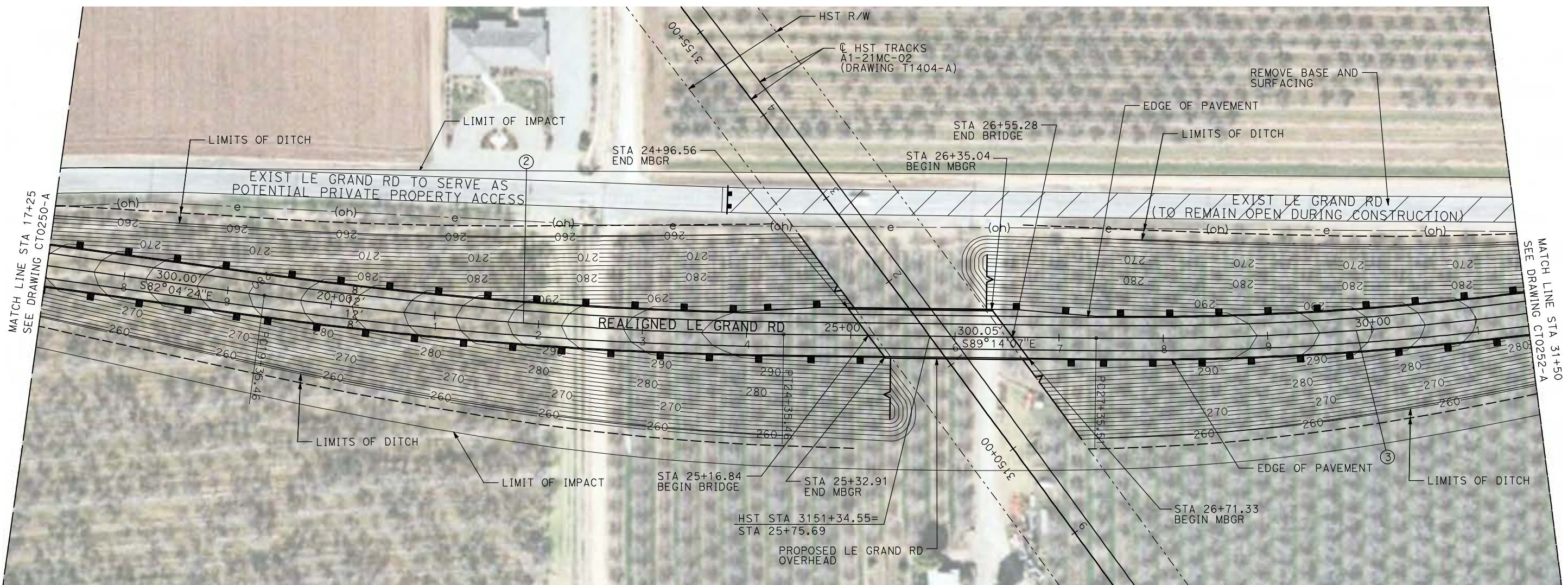
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 1 OF 3

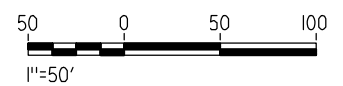
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DRAWING NO.
CT0250-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
②	4000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	7°09'43"	250.33'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1250-A THROUGH CT1252-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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R. GIBSON
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IN CHARGE
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

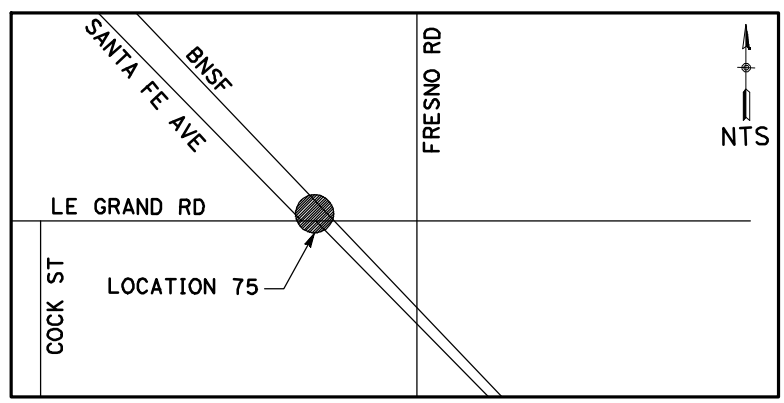
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0251-A
SCALE
AS SHOWN
SHEET NO.
OF

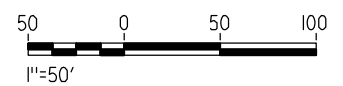
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CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1250-A THROUGH CT1252-A.

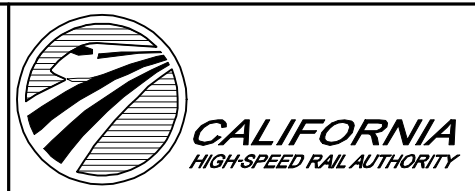


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
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04/29/2011

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

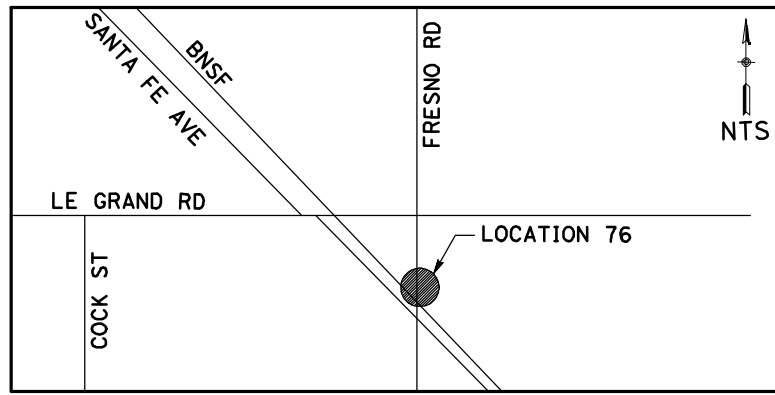
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0252-A
SCALE
AS SHOWN
SHEET NO.
OF

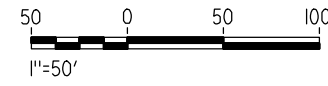
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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1253-A THROUGH CT1255-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
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04/29/2011

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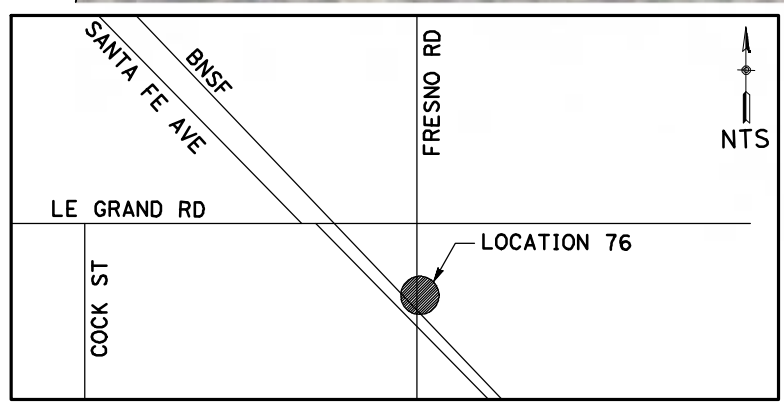
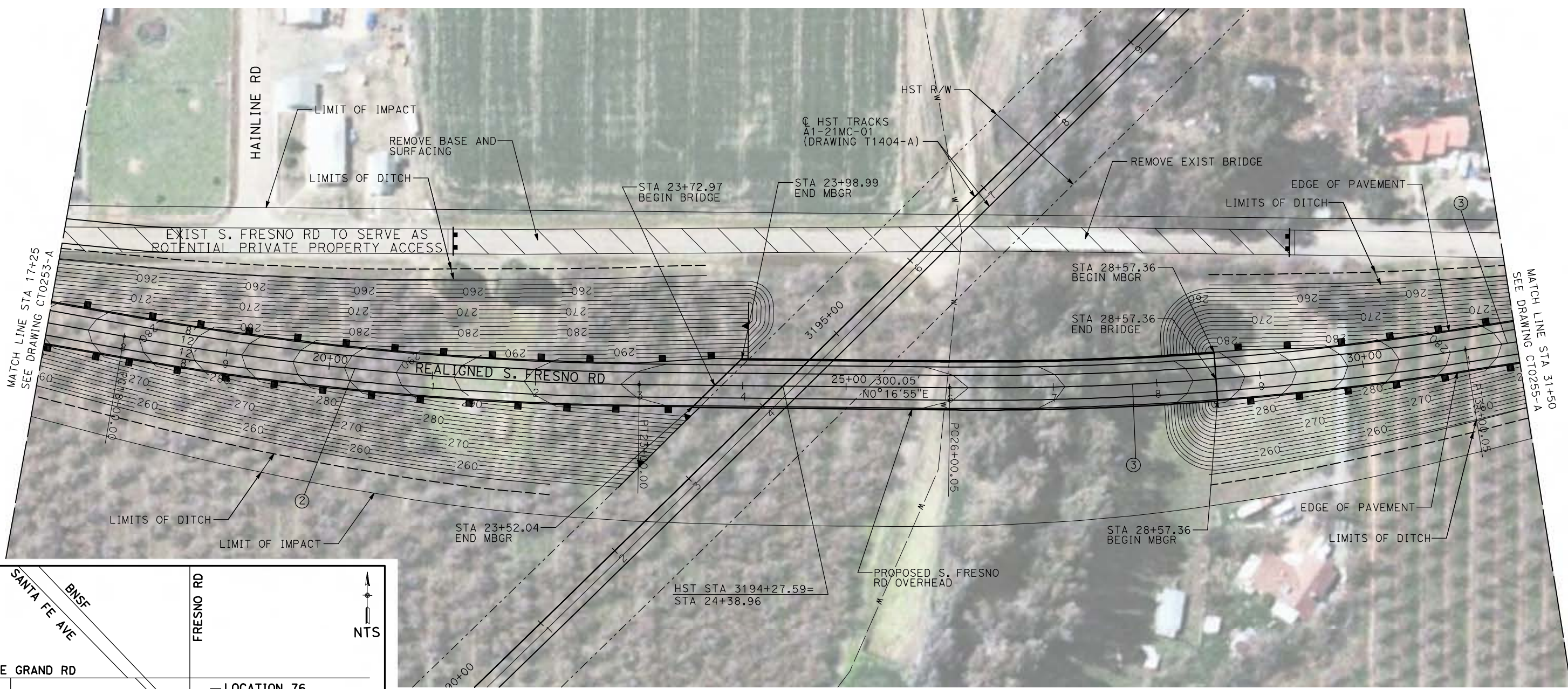


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 1 OF 3

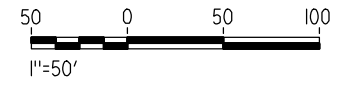
CONTRACT NO.
HST06-007
DRAWING NO.
CT0253-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:49:10 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave2124Mc02\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0254-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1253-A THROUGH CT1255-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
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04/29/2011

RECORD SET
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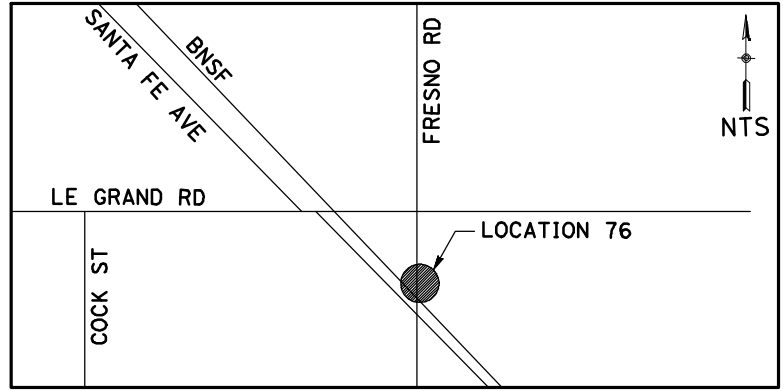
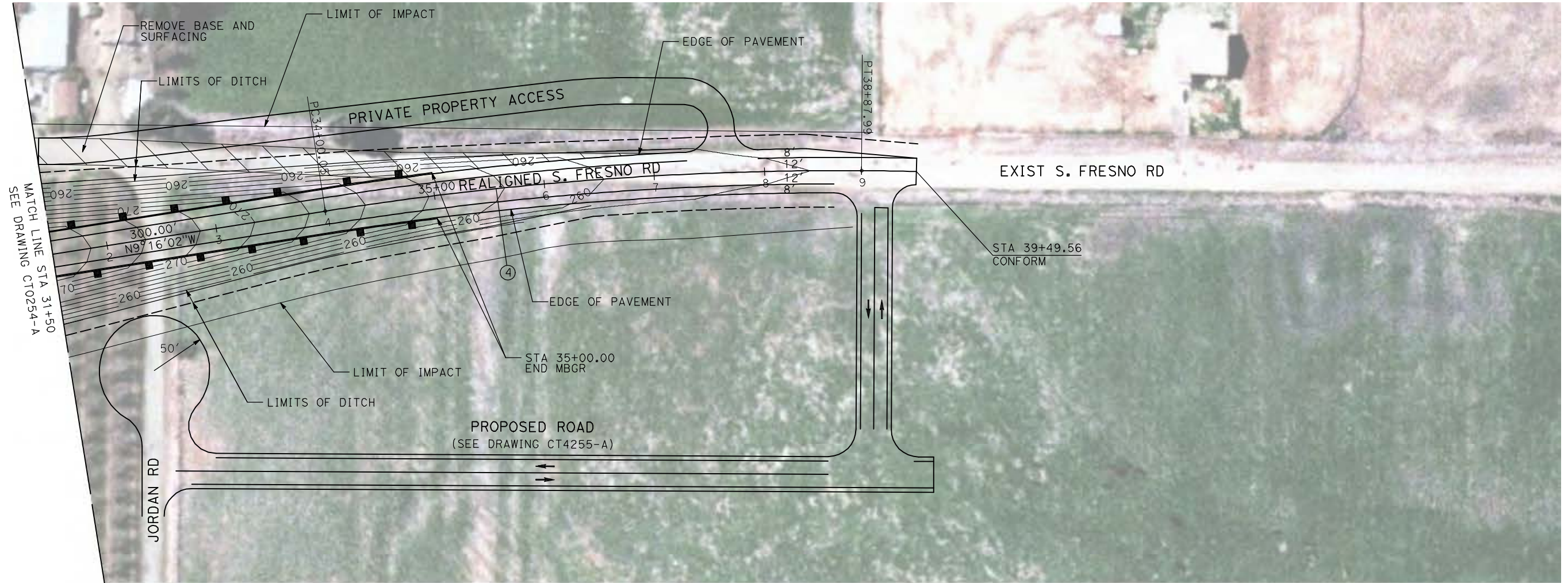
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. FRESNO RD
 LAYOUT
 SHEET 2 OF 3

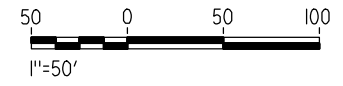
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0254-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:49:19 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124M02\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0255-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°19'08"	244.51'	487.94'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1253-A THROUGH CT1255-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON

DRAWN BY
H. PHAN

CHECKED BY
J. ZANDIAN

IN CHARGE
A. BOONE

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04/29/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007

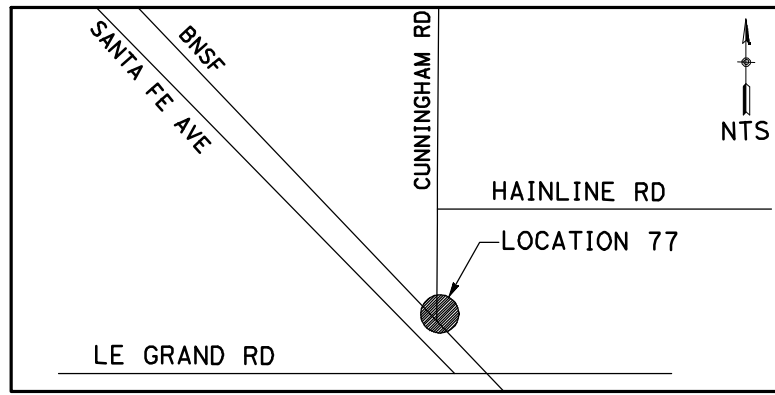
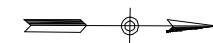
DRAWING NO.
CT0255-A

SCALE
AS SHOWN

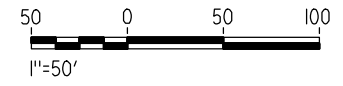
SHEET NO.
OF

4/29/2011 2:49:26 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc02\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0256-A.DGN

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1256-A THROUGH CT1258-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

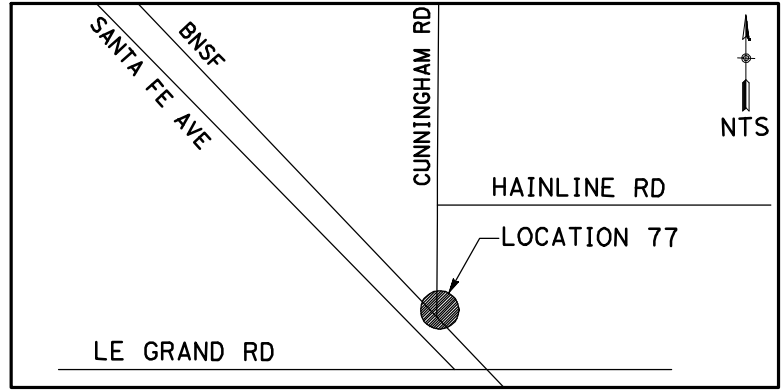
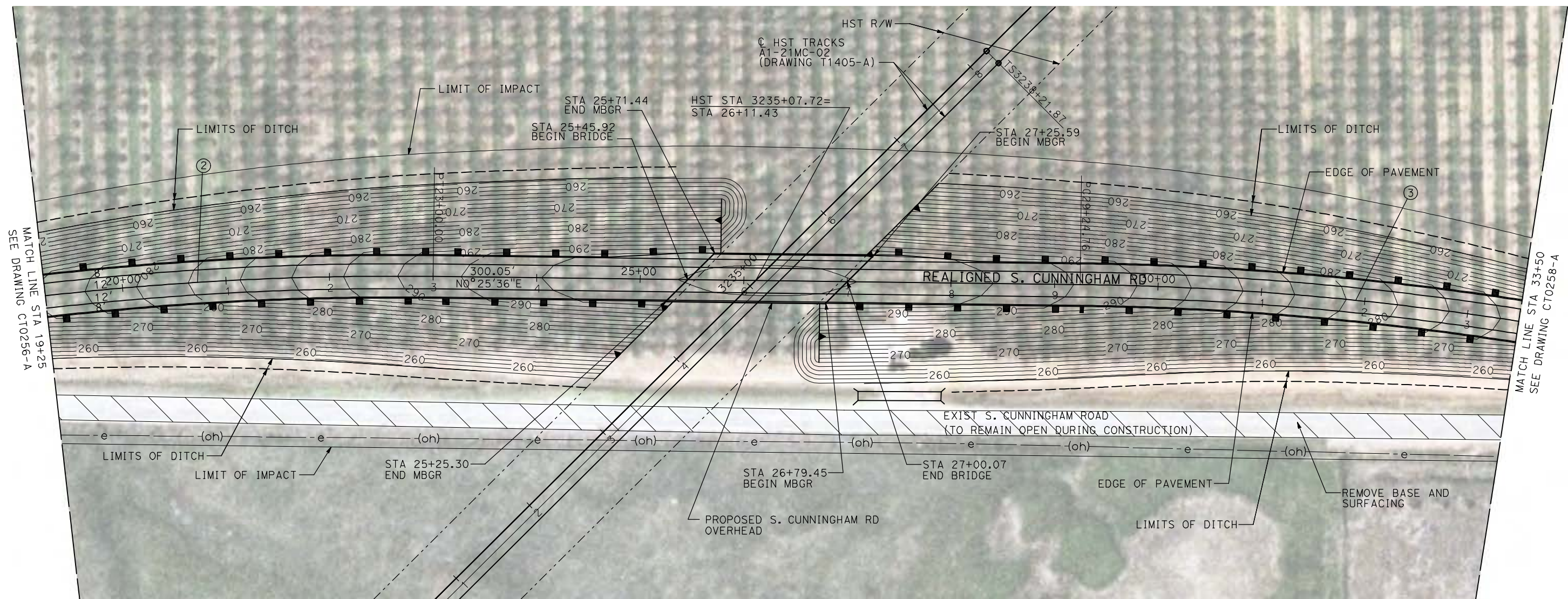


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 1 OF 3

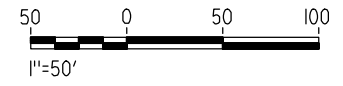
CONTRACT NO.
HST06-007
DRAWING NO.
CT0256-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:49:33 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0257-A.DGN

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1256-A THROUGH CT1258-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



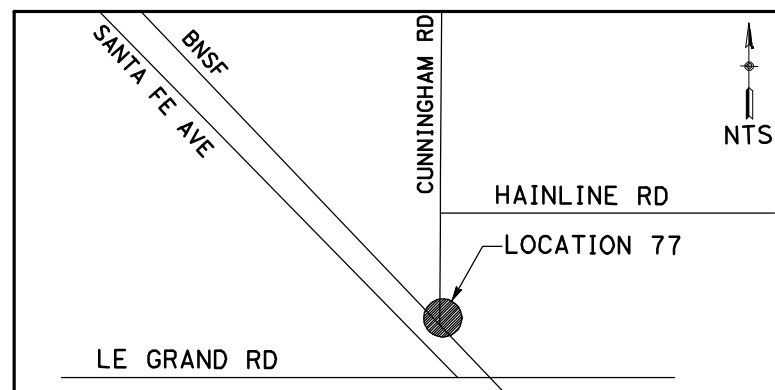
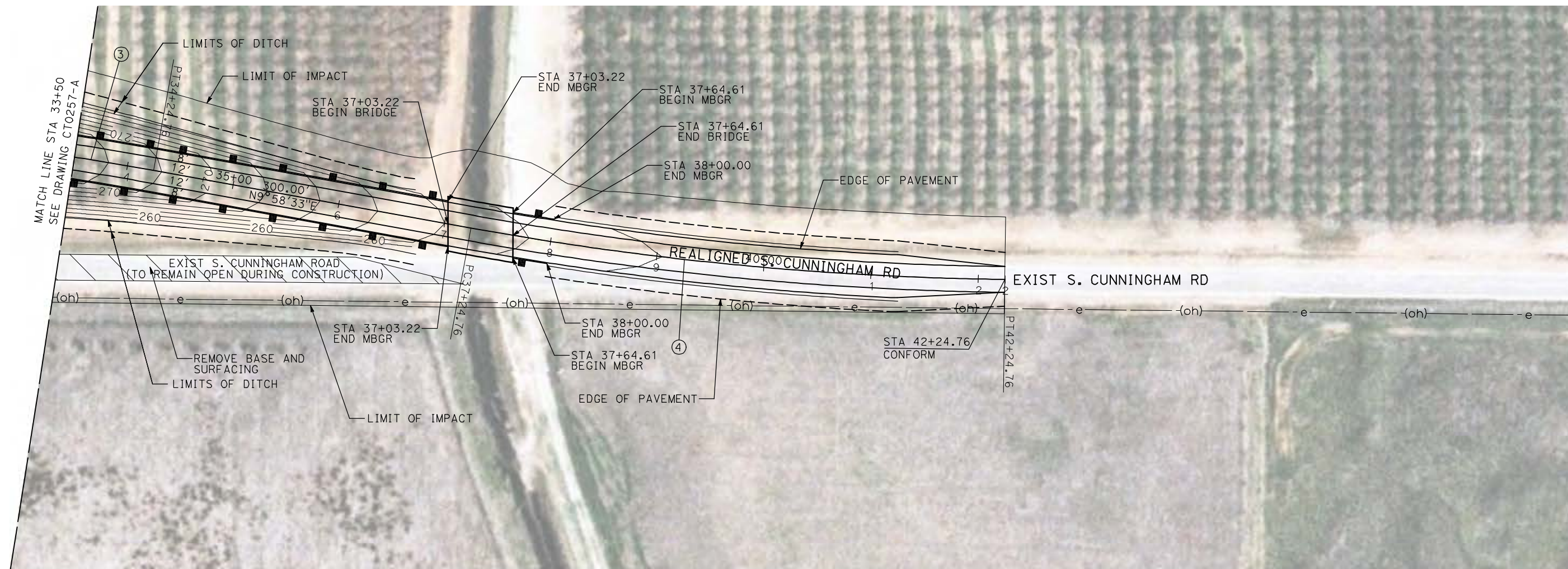
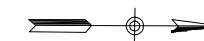
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0257-A
SCALE
AS SHOWN
SHEET NO.
OF

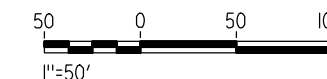
CURVE DATA

NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1256-A THROUGH CT1258-A.



4/29/2011 2:49:42 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0258-A.DGN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
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NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007

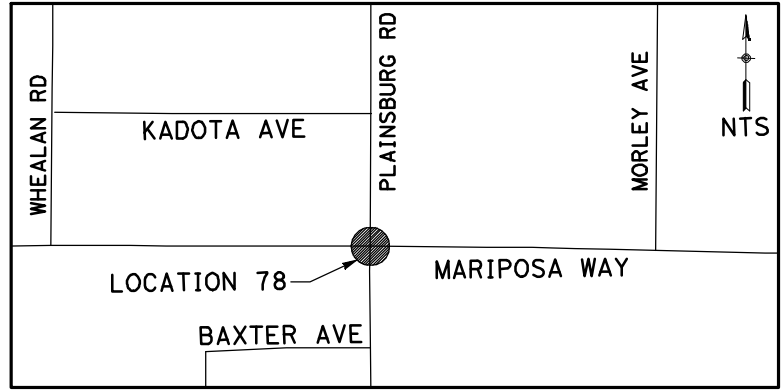
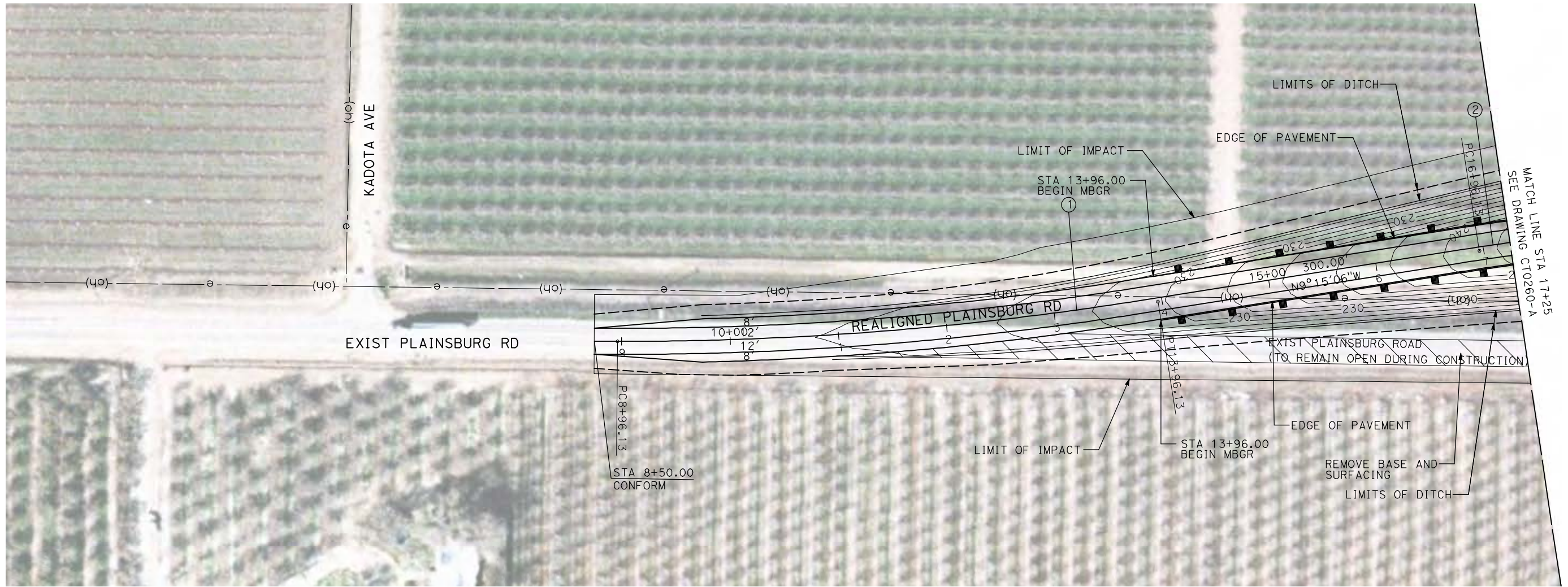
DRAWING NO.
CT0258-A

SCALE
AS SHOWN

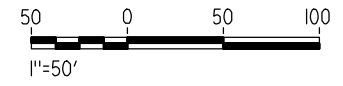
SHEET NO.
OF

4/29/2011 2:49:49 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-A - Ave2124M02\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0259-A.DGN

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1259-A THROUGH CT1261-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

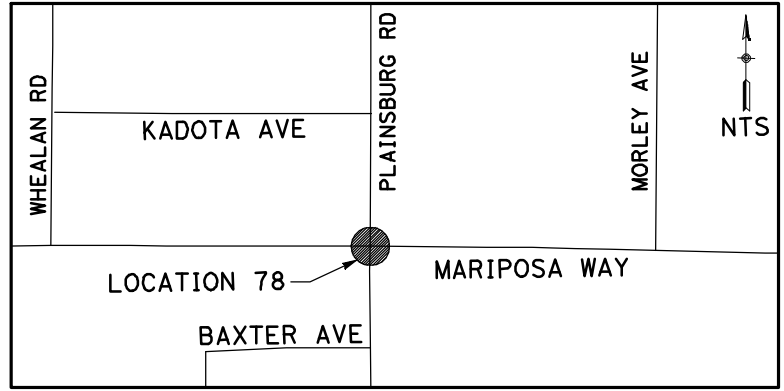
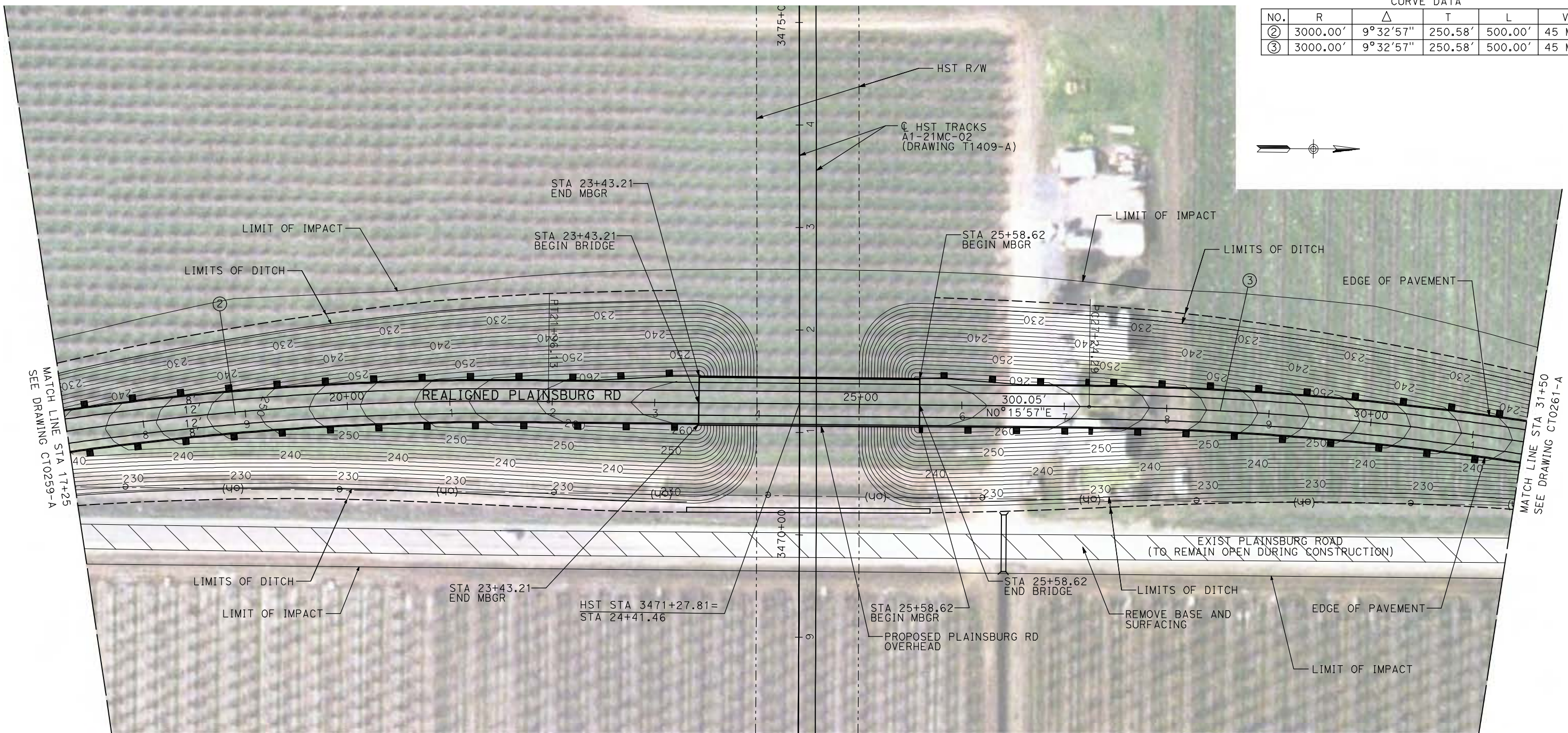


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0259-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:49:56 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet-fresno\roadway\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0260-A.DGN

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1259-A THROUGH CT1261-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION



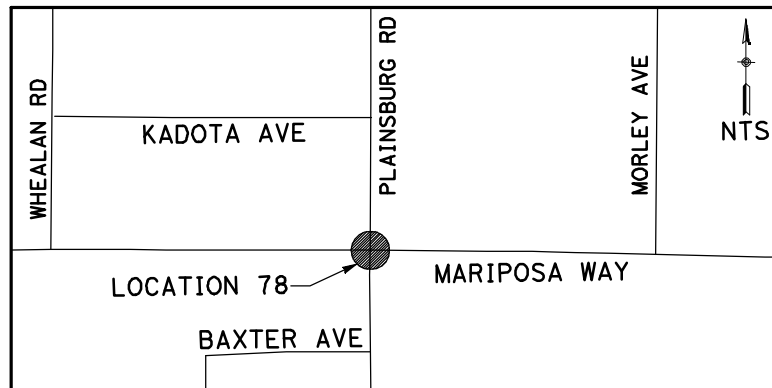
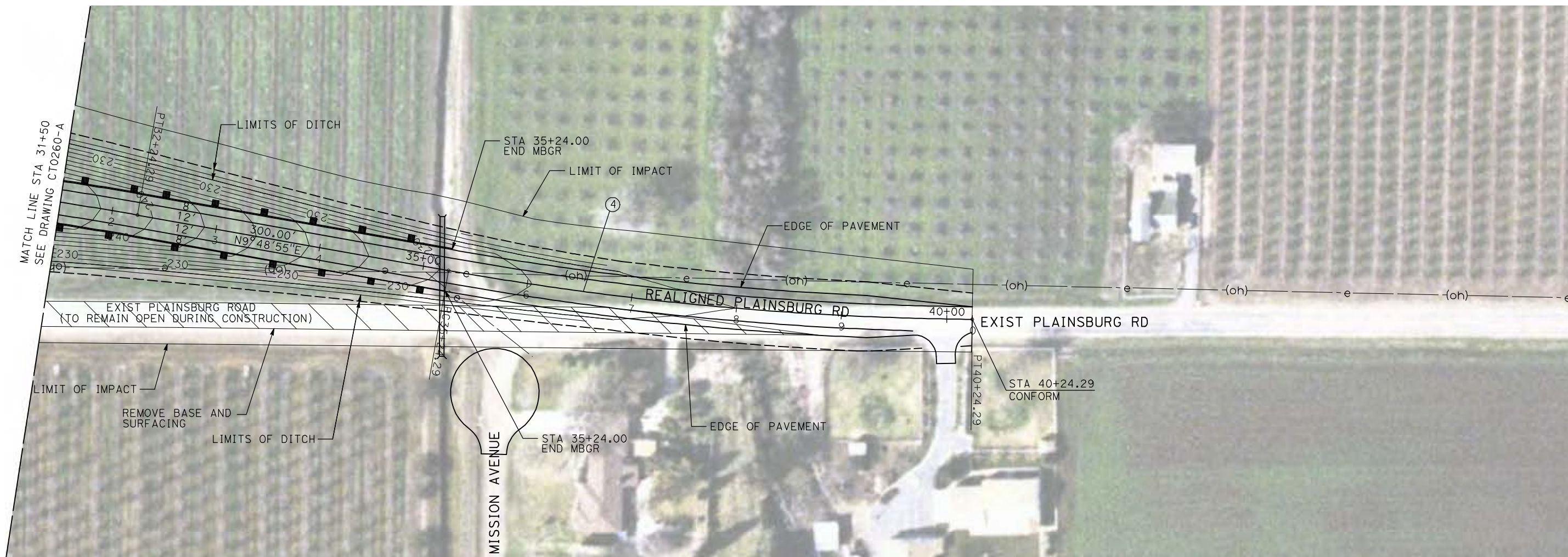
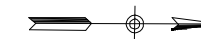
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0260-A
SCALE
AS SHOWN
SHEET NO.
OF

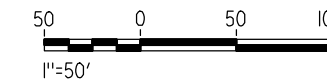
CURVE DATA

NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1259-A THROUGH CT1261-A.



4/29/2011 2:50:04 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0261-A.DGN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

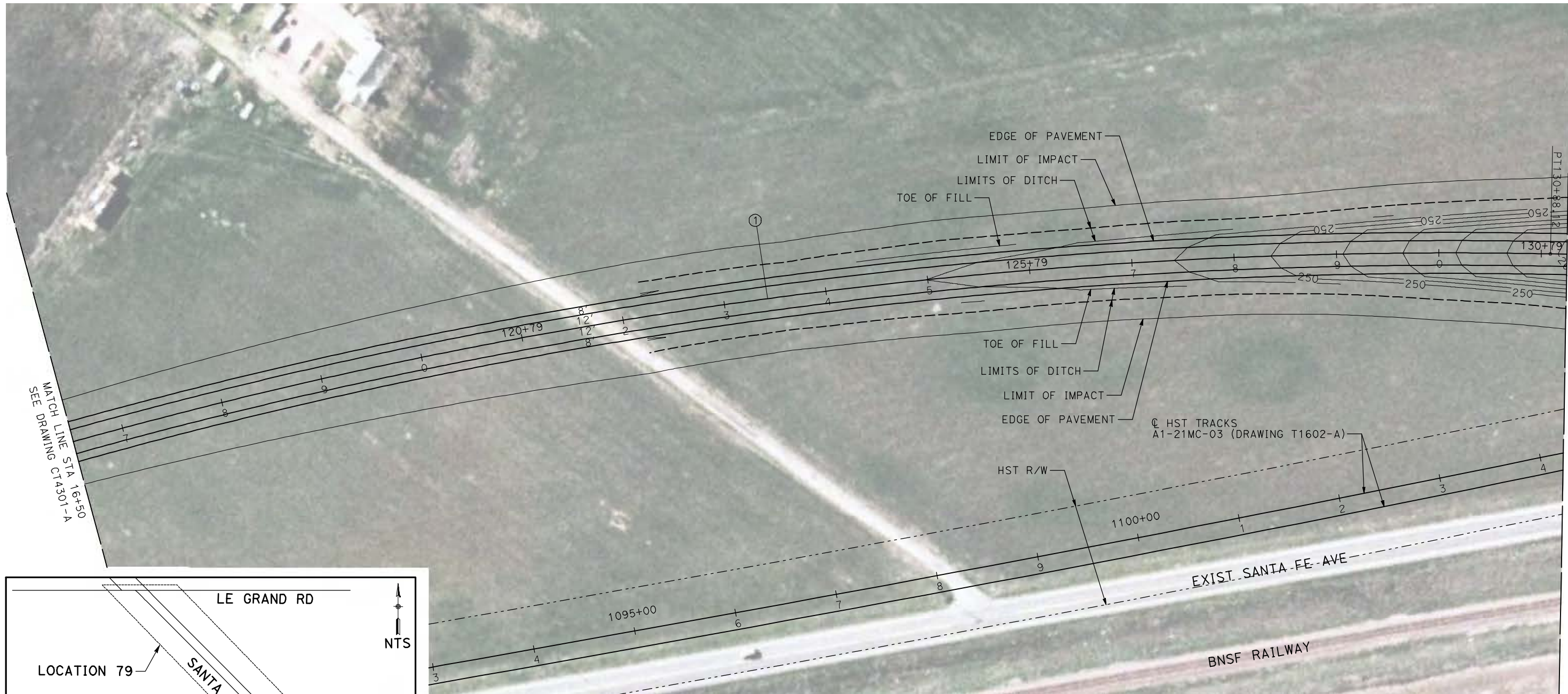
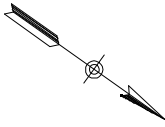


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0261-A
SCALE
AS SHOWN
SHEET NO.
OF

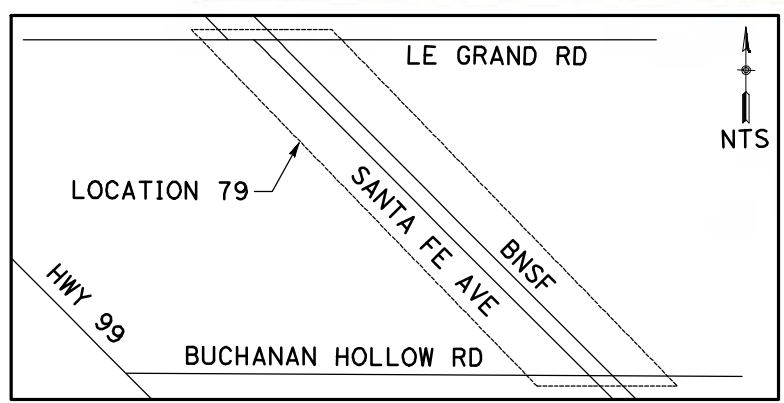
CURVE DATA

NO.	R	Δ	T	L	V
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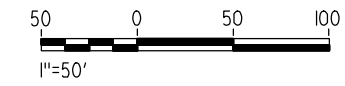
MATCH LINE STA 16+50
SEE DRAWING CT1301-A

MATCH LINE STA 131+25
SEE DRAWING CT0301-A



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1300-A THROUGH CT1302-A.



4/29/2011 2:56:01 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-Ave2124MC03\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0300-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

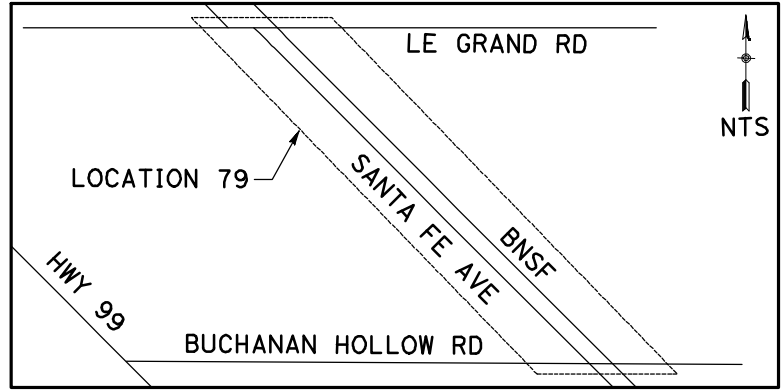
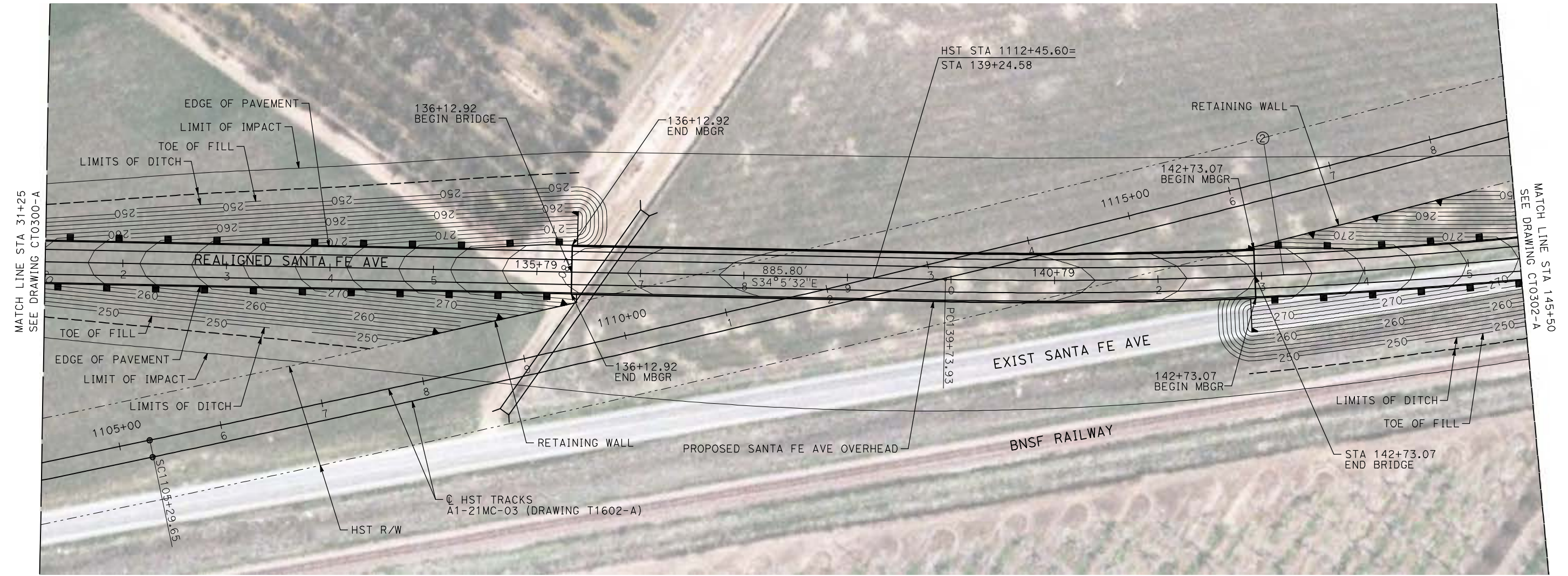
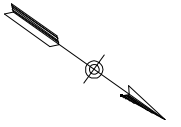


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. SANTA FE AVE
LAYOUT
SHEET 1 OF 3

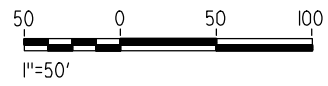
CONTRACT NO.
HST06-007
DRAWING NO.
CT0300-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:56:08 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-Ave2124MC03\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0301-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	11°12'59"	432.94'	979.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1300-A THROUGH CT1302-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

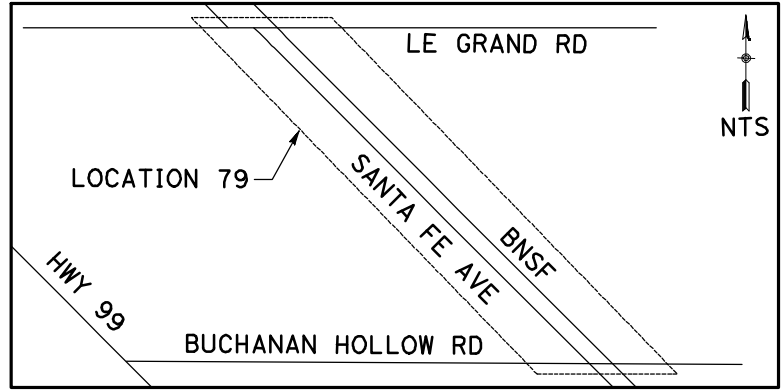
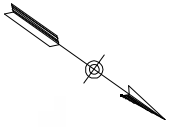
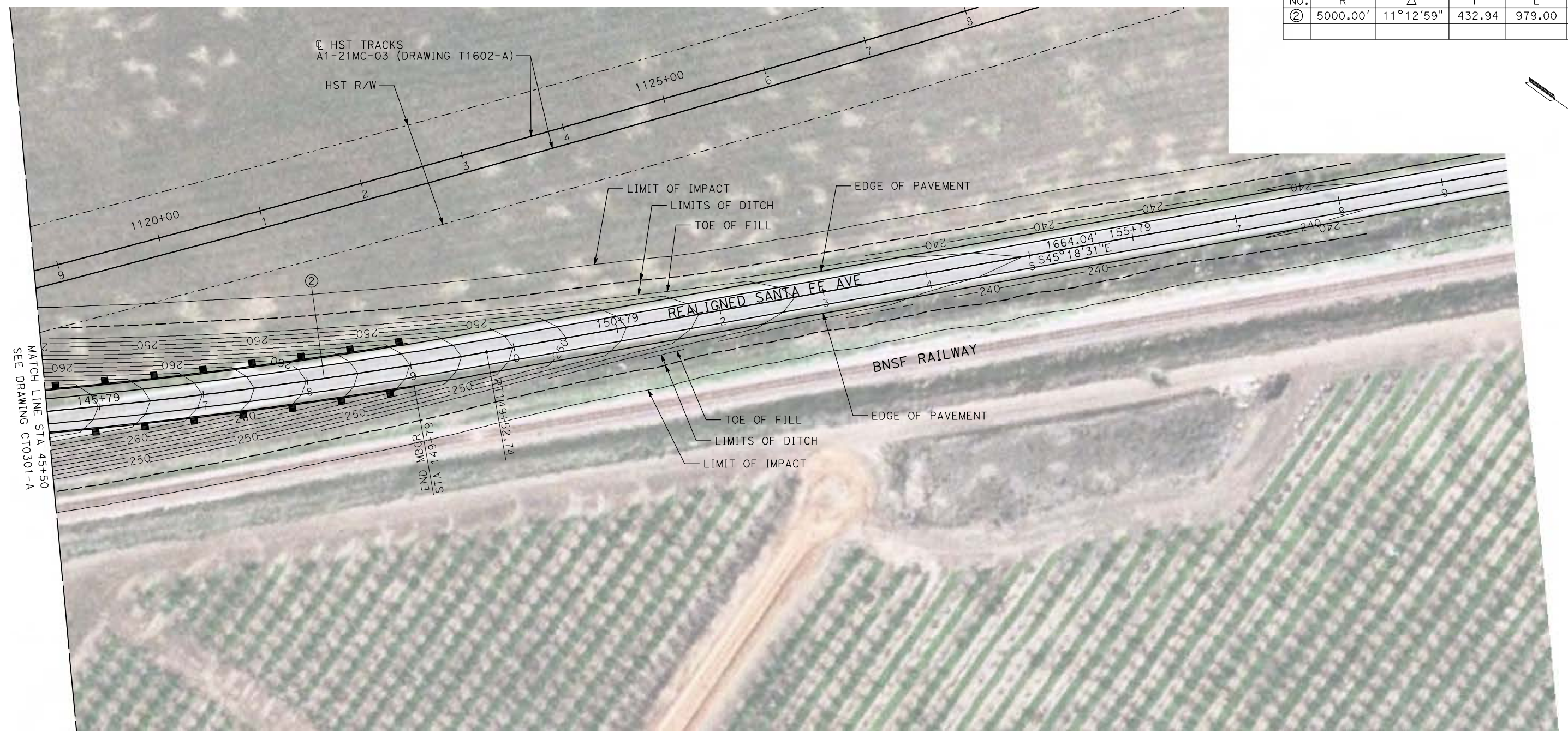


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. SANTA FE AVE
 LAYOUT
 SHEET 2 OF 3

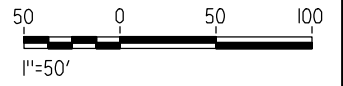
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0301-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:56:16 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-A1-Ave2124MC03\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0302-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	11°12'59"	432.94	979.00	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1300-A THROUGH CT1302-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

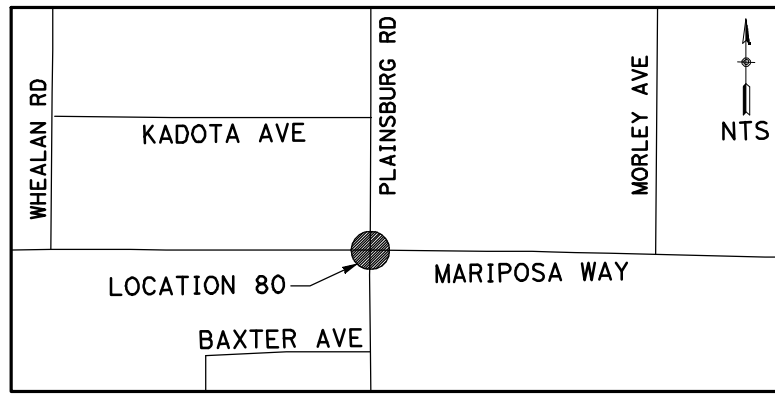
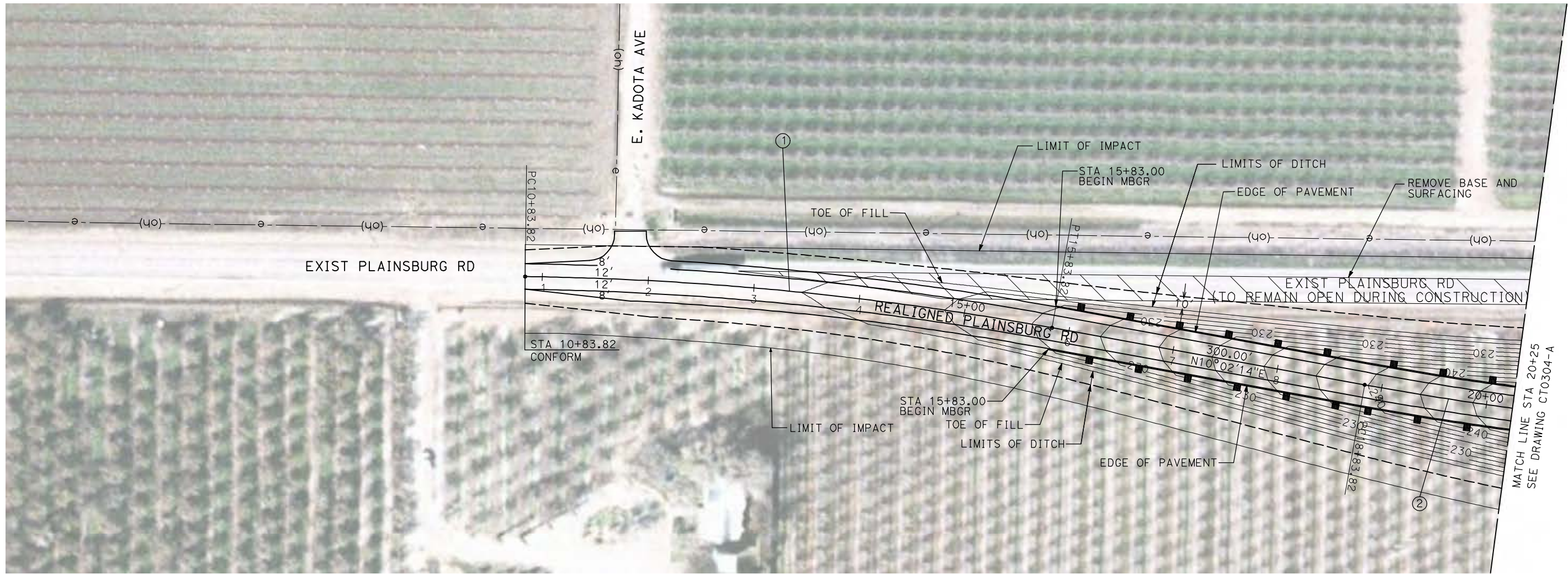
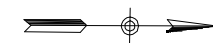


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. SANTA FE AVE
 LAYOUT
 SHEET 3 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0302-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:56:23 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-Ave2124\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0303-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1303-A THROUGH CT1305-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

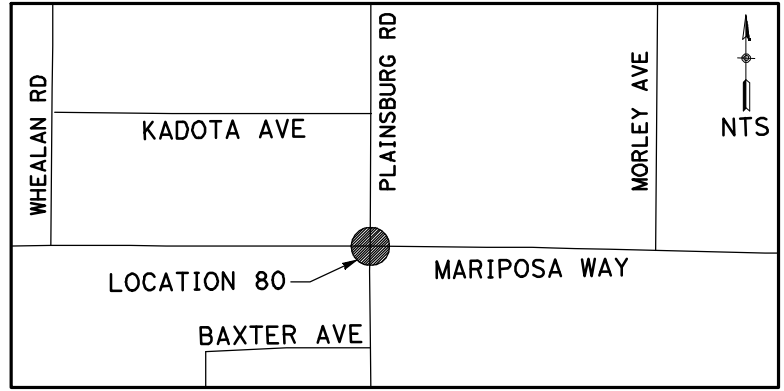
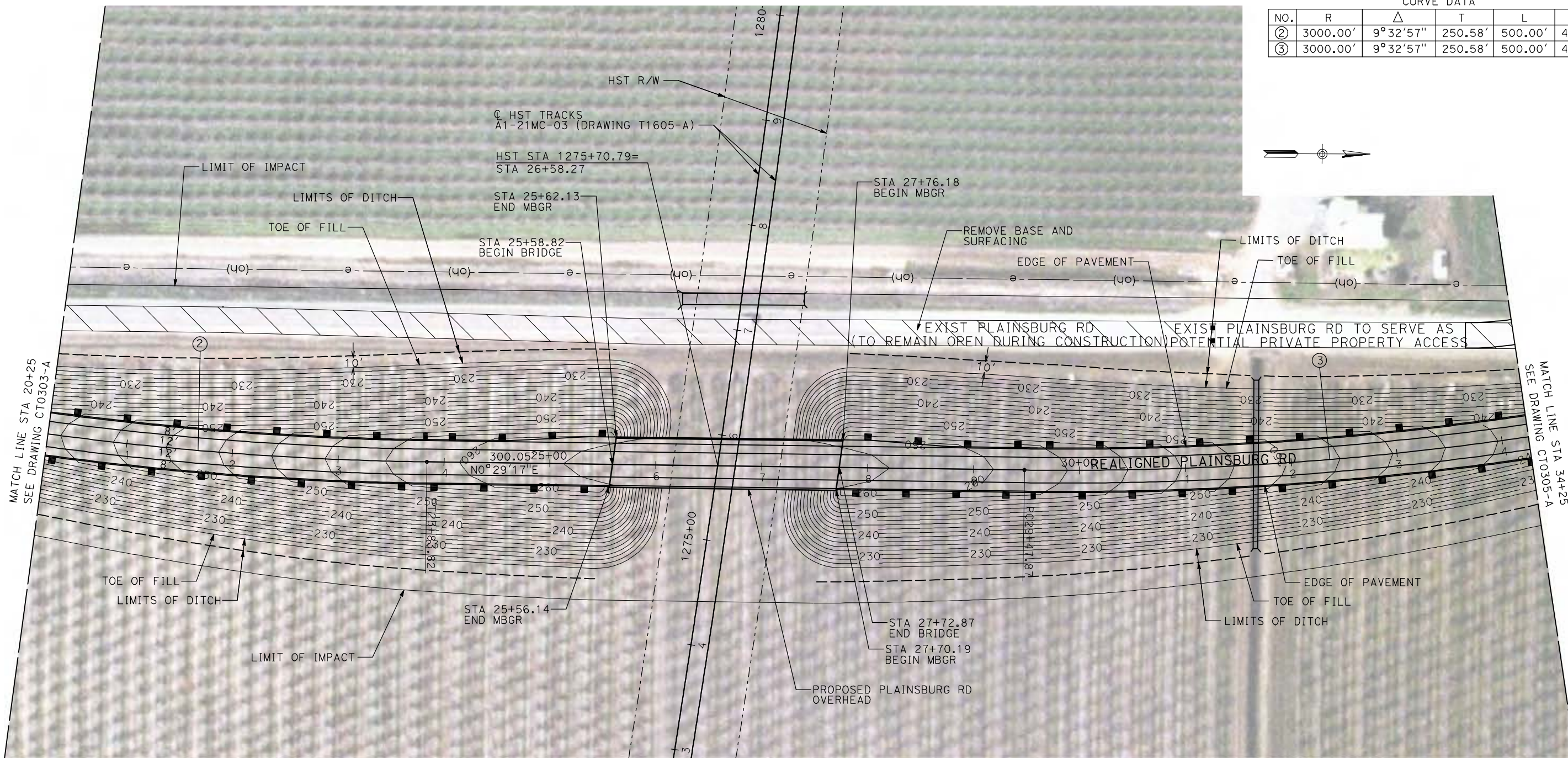


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 1 OF 3

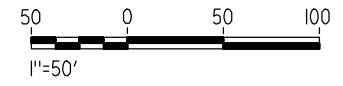
CONTRACT NO.
HST06-007
DRAWING NO.
CT0303-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:56:31 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-Ave2124MC03\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0304-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1303-A THROUGH CT1305-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



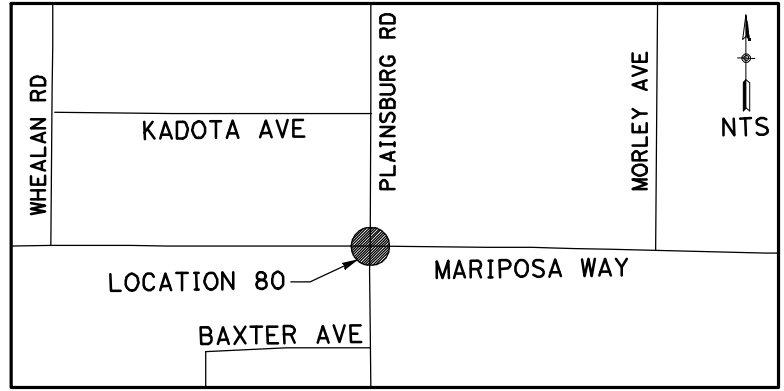
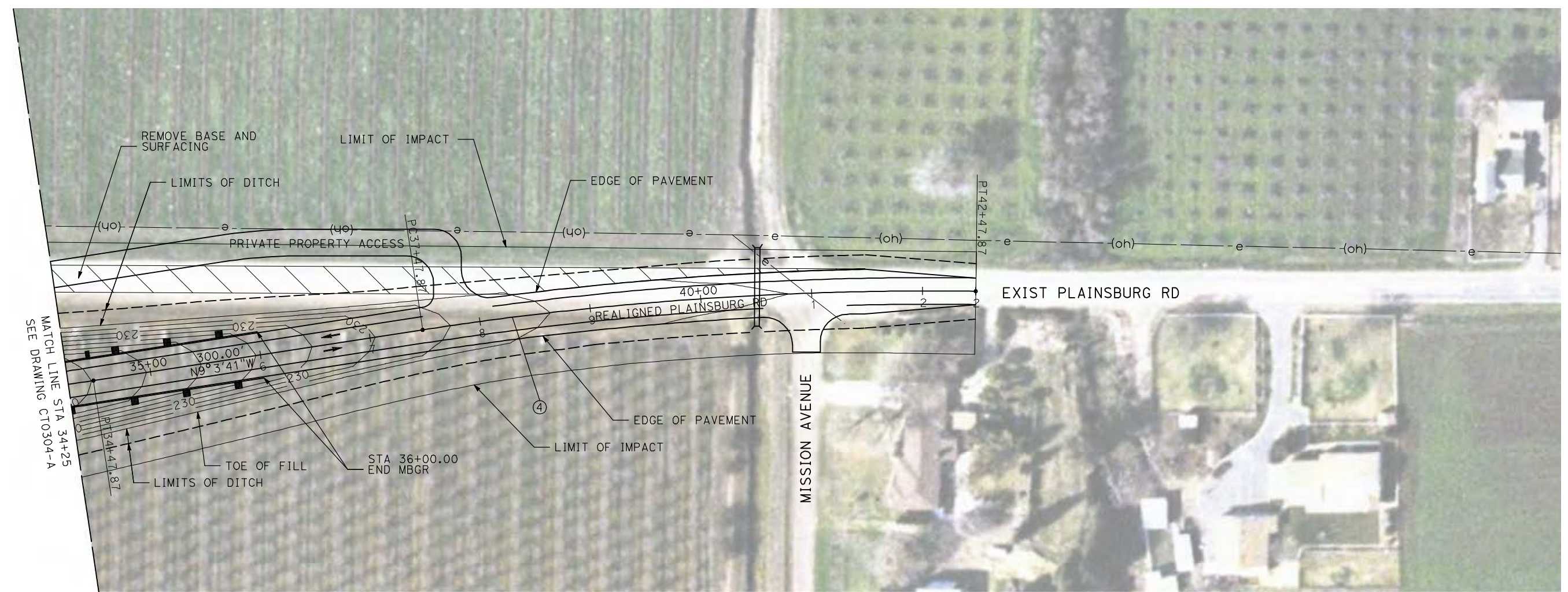
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 2 OF 3

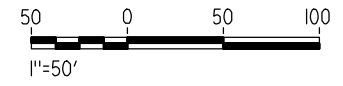
CONTRACT NO.
HST06-007
DRAWING NO.
CT0304-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:56:40 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-Ave2124\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0305-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1303-A THROUGH CT1305-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



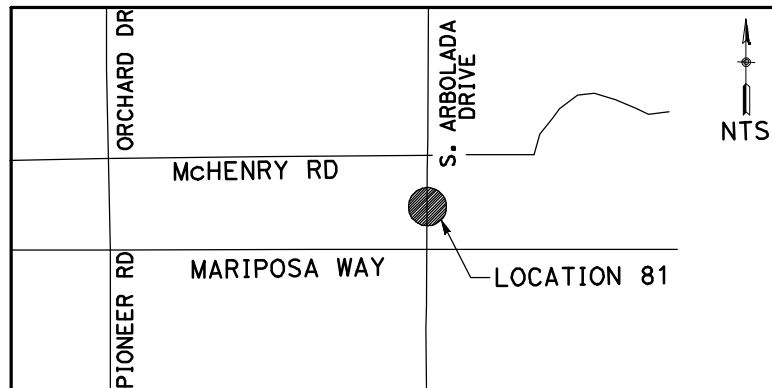
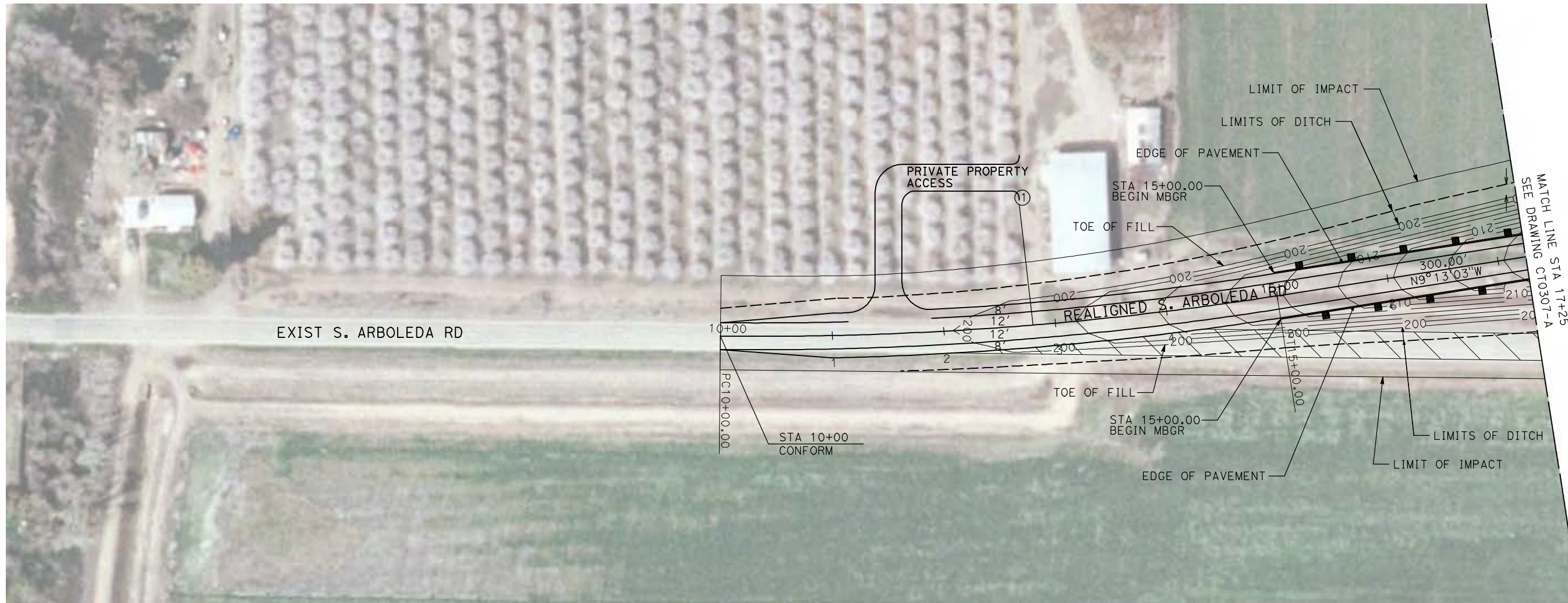
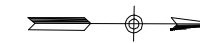
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0305-A
SCALE
AS SHOWN
SHEET NO.
OF

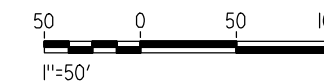
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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1306-A THROUGH CT1308-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

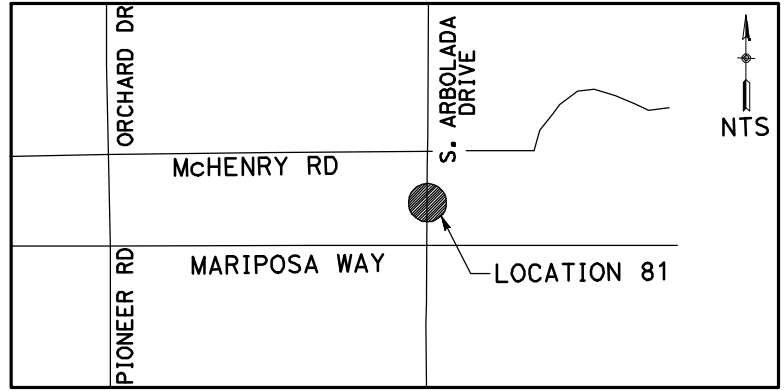
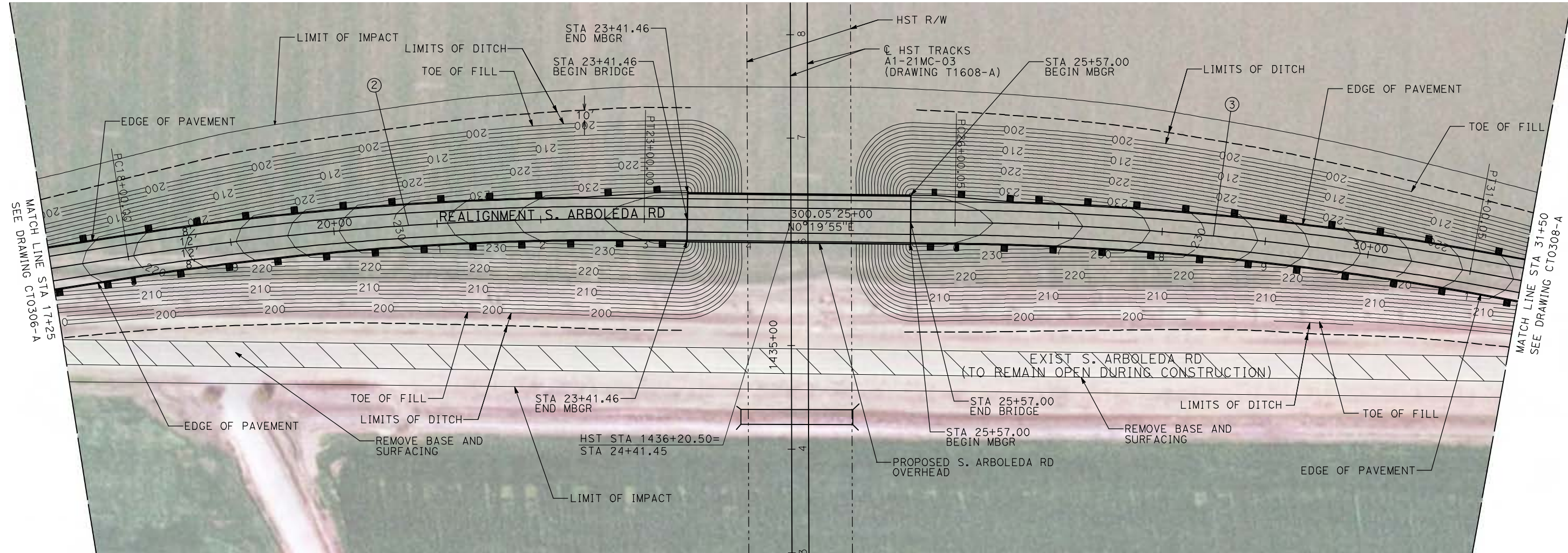


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. ARBOLEDA RD
LAYOUT
SHEET 1 OF 3

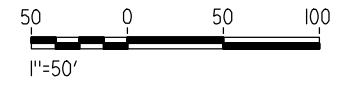
CONTRACT NO.
HST06-007
DRAWING NO.
CT0306-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:56:53 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-Ave2124Mc03\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0307-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1306-A THROUGH CT1308-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

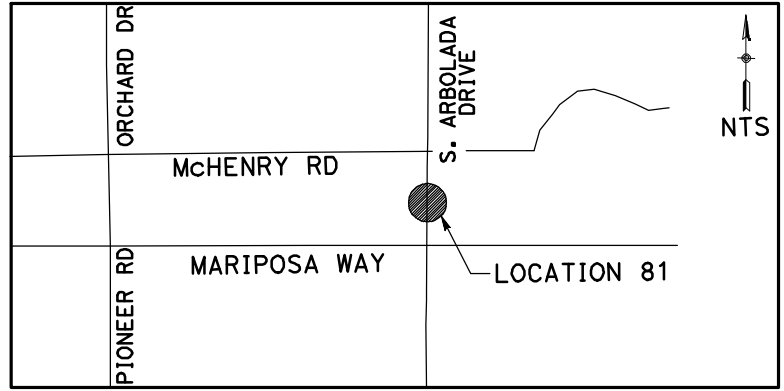
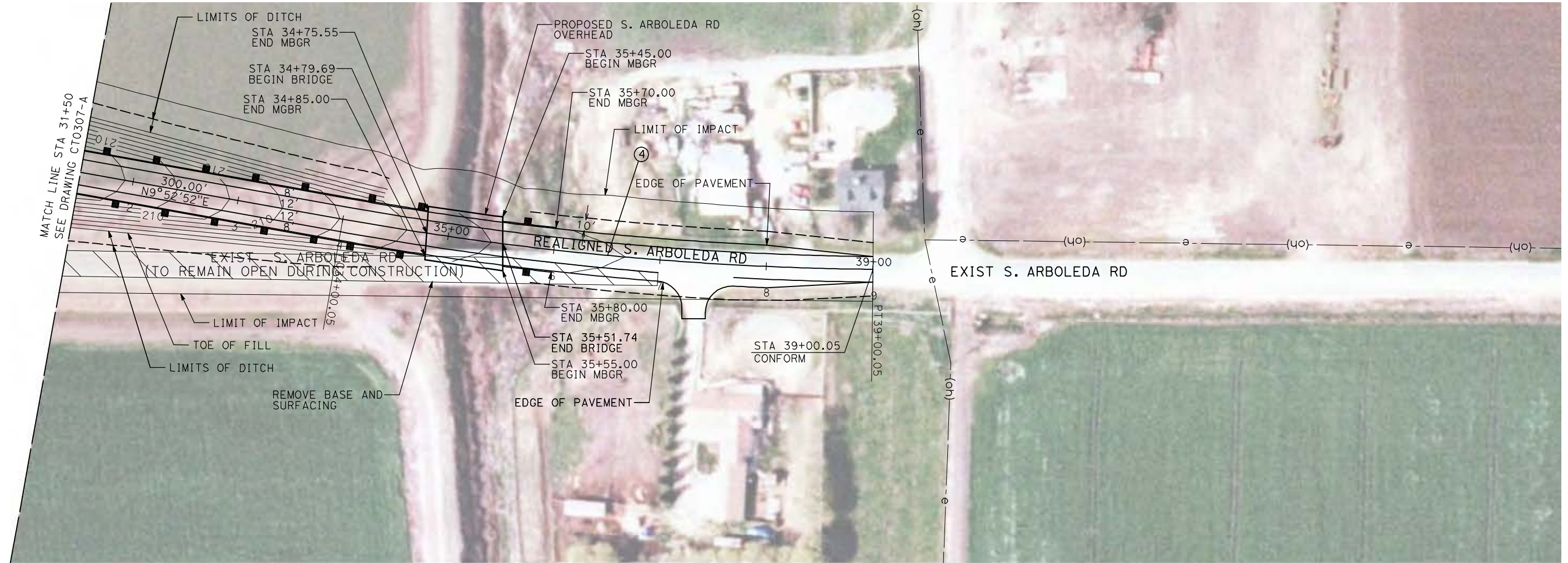


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. ARBOLEDA RD
LAYOUT
SHEET 2 OF 3

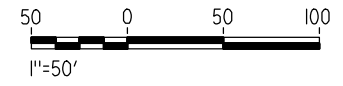
CONTRACT NO.
HST06-007
DRAWING NO.
CT0307-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1306-A THROUGH CT1308-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



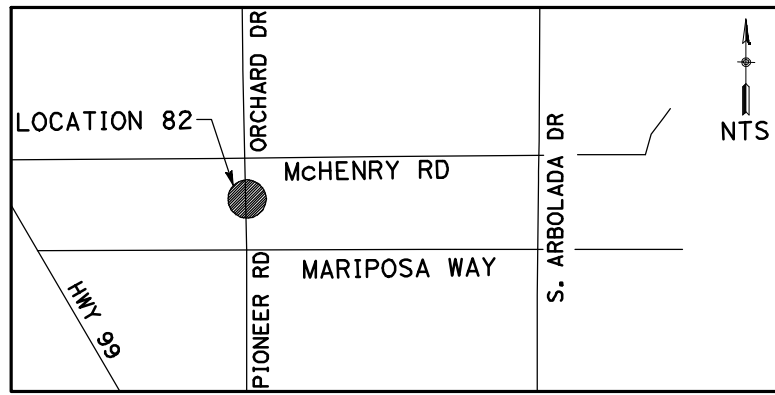
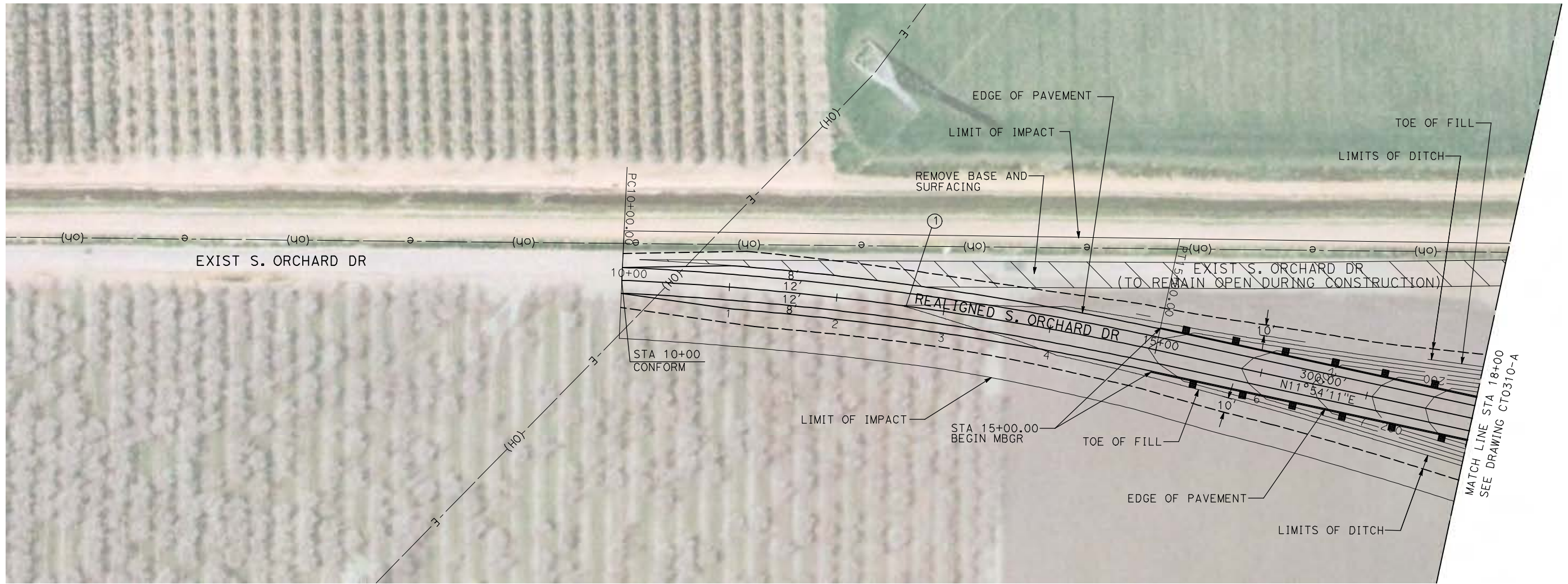
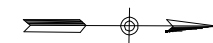
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. ARBOLEDA RD
LAYOUT
SHEET 3 OF 3

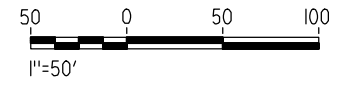
CONTRACT NO.
HST06-007
DRAWING NO.
CT0308-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1309-A THROUGH CT1311-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

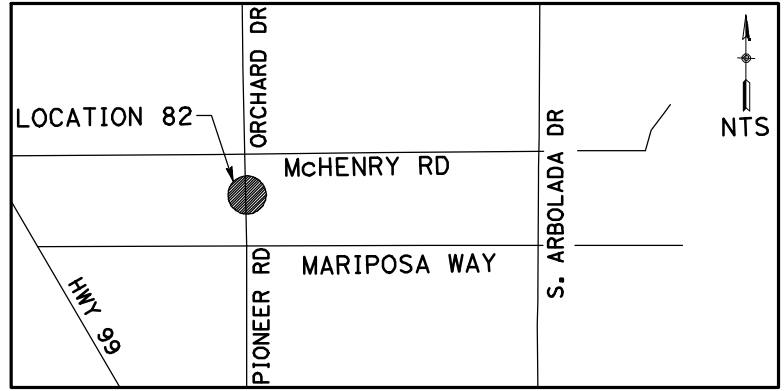
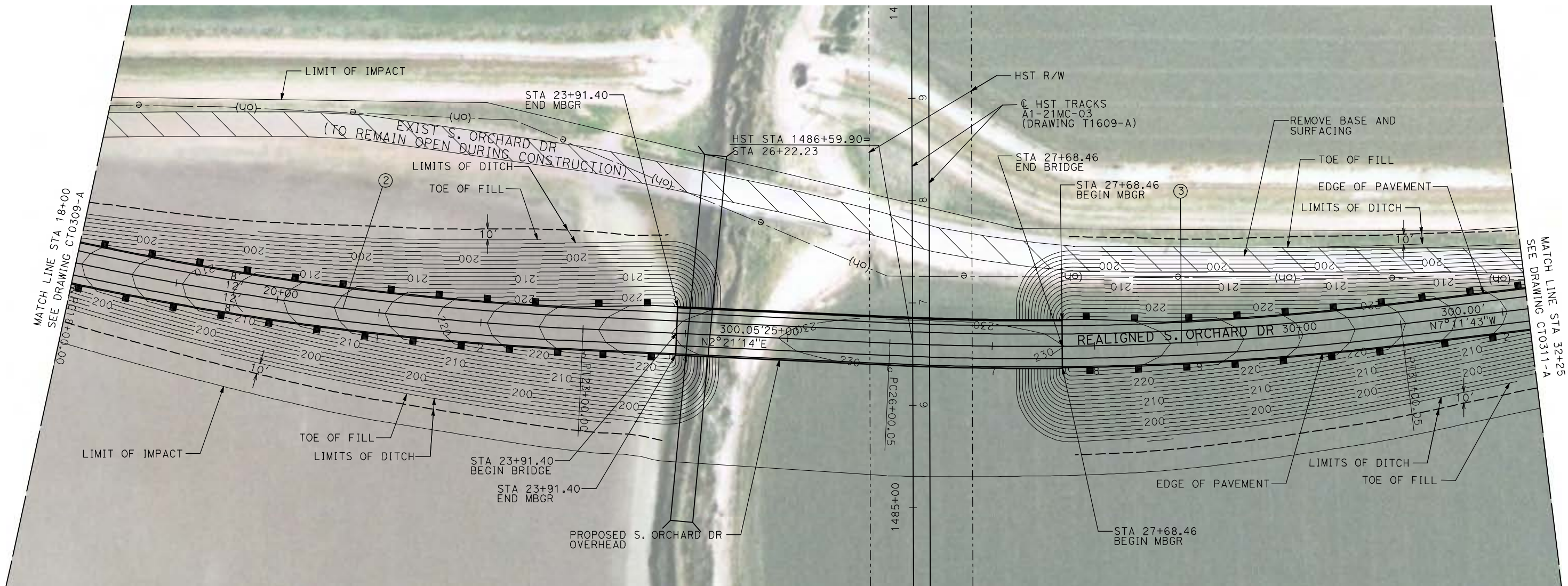


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. ORCHARD DR
LAYOUT
SHEET 1 OF 3

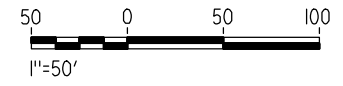
CONTRACT NO.
HST06-007
DRAWING NO.
CT0309-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:57:15 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0310-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1309-A THROUGH CT1311-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON

DRAWN BY
H. PHAN

CHECKED BY
J. ZANDIAN

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. ORCHARD DR
 LAYOUT
 SHEET 2 OF 3

CONTRACT NO.
HST06-007

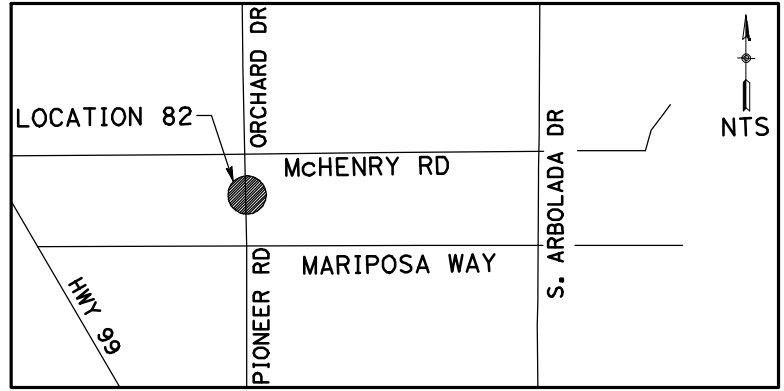
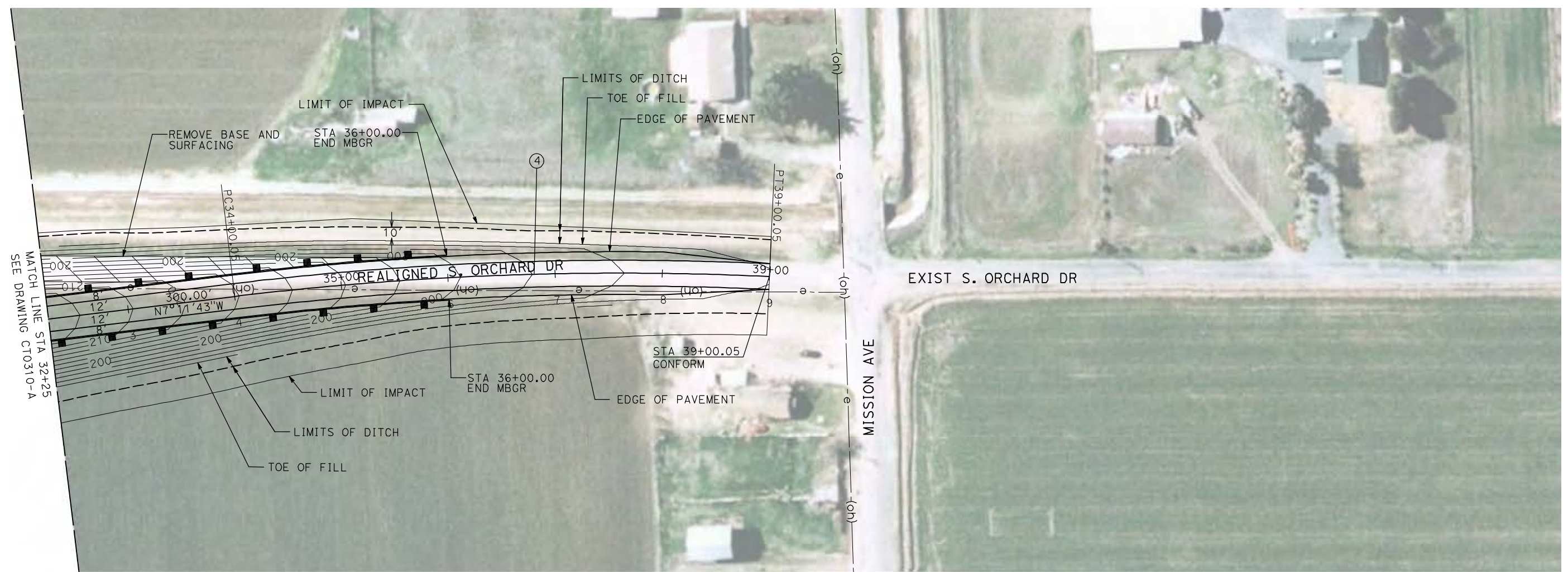
DRAWING NO.
CT0310-A

SCALE
AS SHOWN

SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1309-A THROUGH CT1311-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

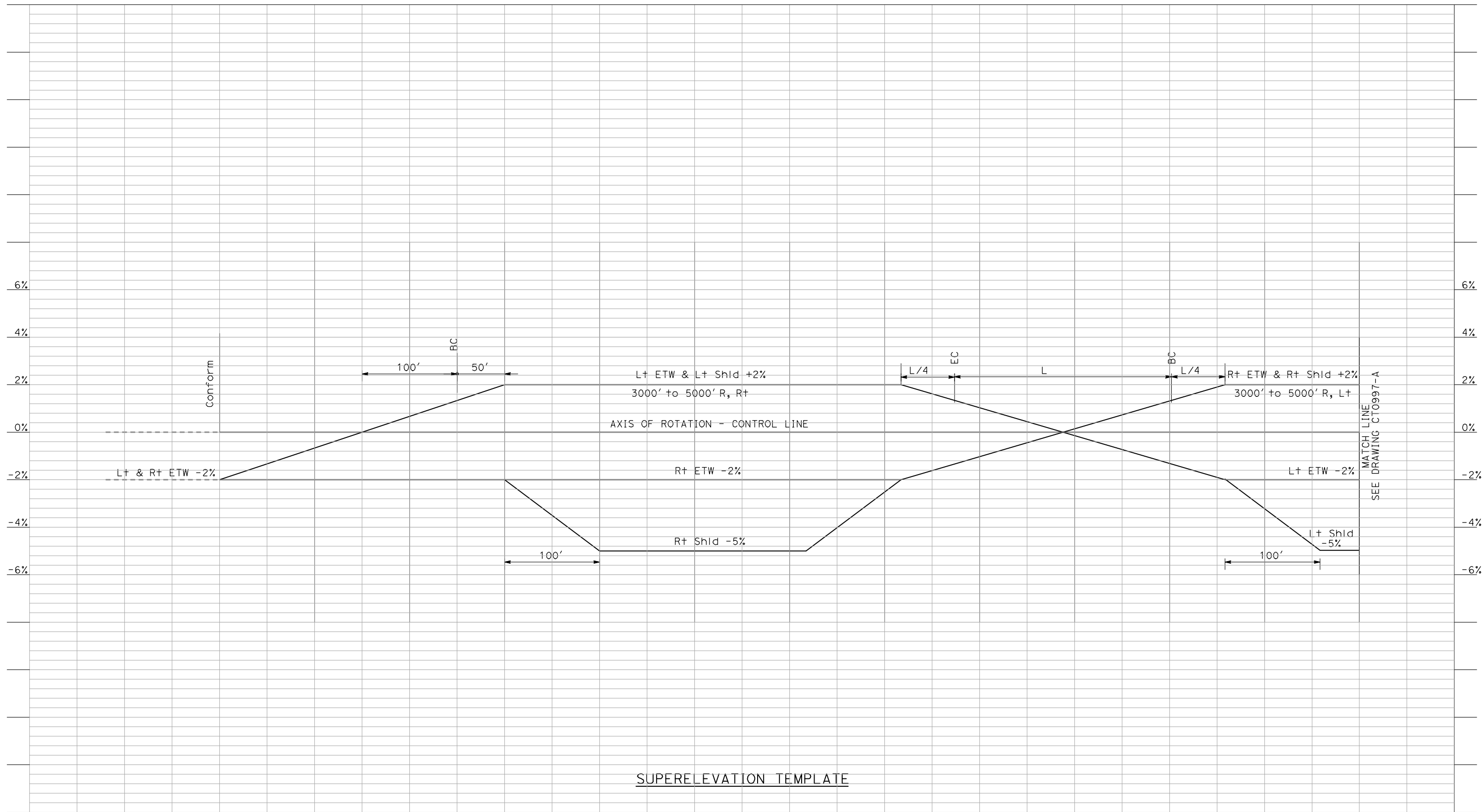


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - S. ORCHARD DR
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0311-A
SCALE
AS SHOWN
SHEET NO.
OF

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. LI
 DRAWN BY
 A. TRINH
 CHECKED BY
 A. SILVER
 IN CHARGE
 A. BOONE
 DATE
 02/17/2011

RECORD SET
15% DESIGN
SUBMITTAL

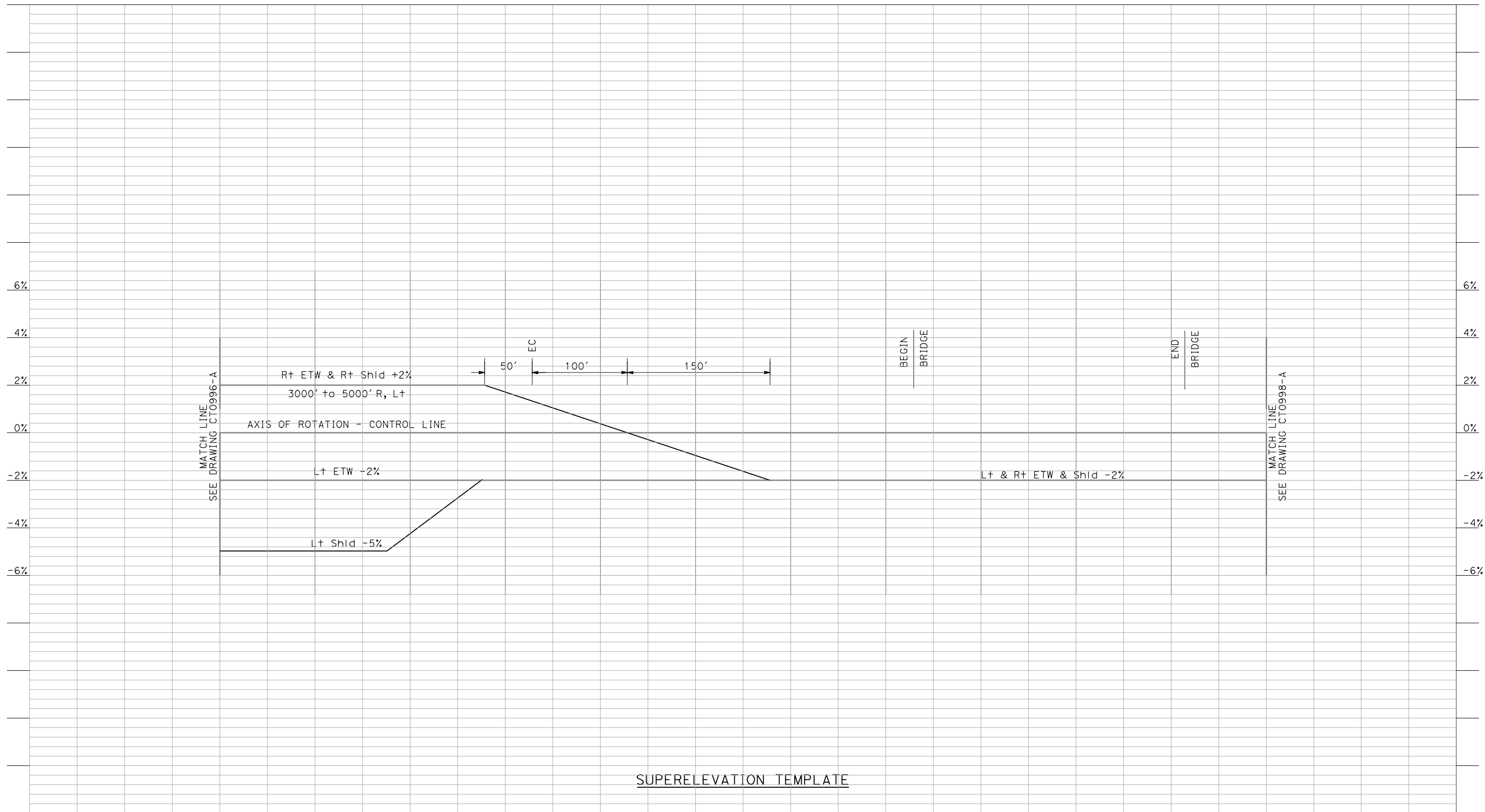
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 24 WYE
 GRADE SEPARATION
 SUPERELEVATION TEMPLATE
 SHEET 1 OF 4

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT0996-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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SUPERELEVATION TEMPLATE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. LI
 DRAWN BY
A. TRINH
 CHECKED BY
A. SILVER
 IN CHARGE
A. BOONE
 DATE
02/17/2011

RECORD SET
15% DESIGN
SUBMITTAL

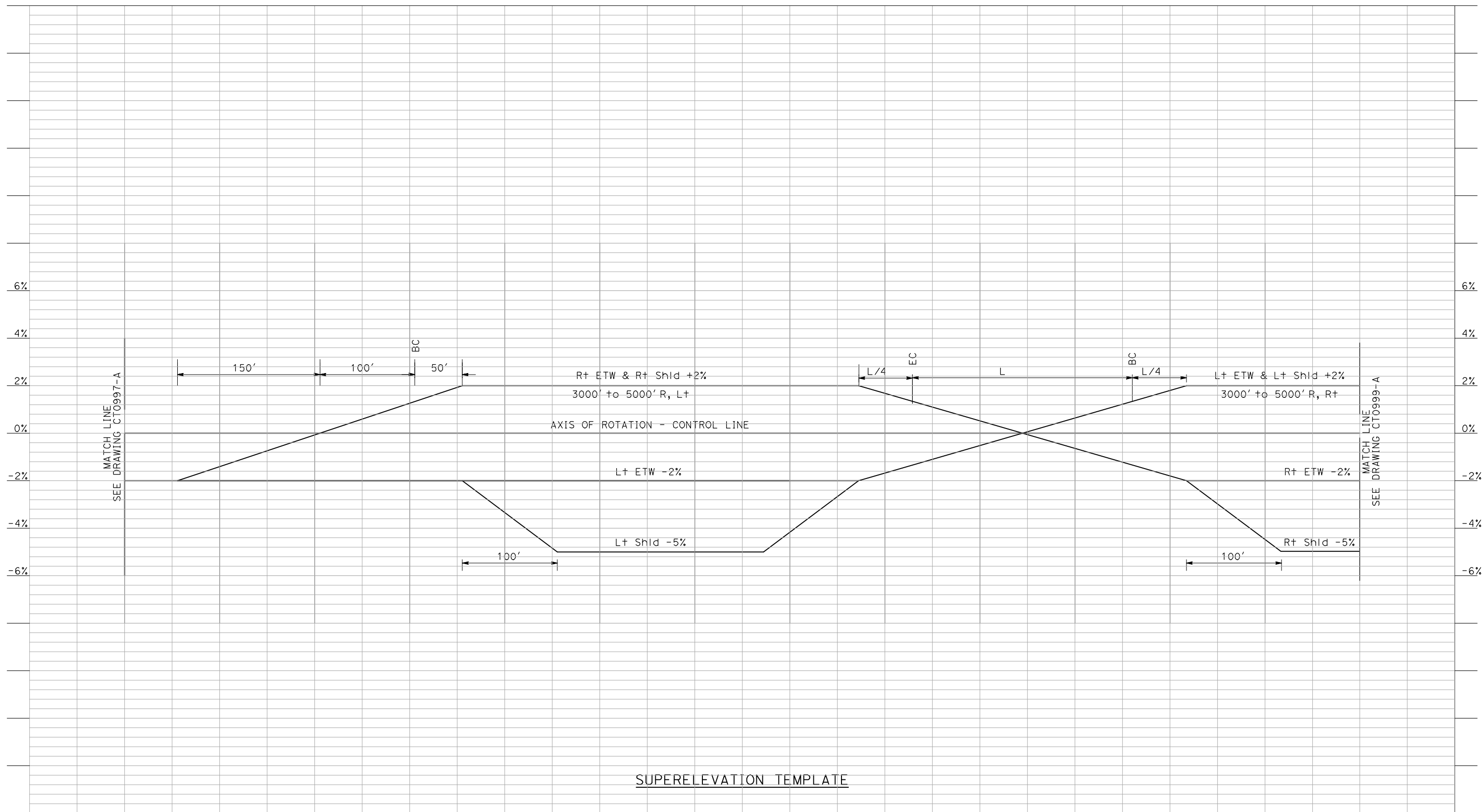
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 24 WYE
 GRADE SEPARATION
 SUPERELEVATION TEMPLATE
 SHEET 2 OF 4

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT0997-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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SUPERELEVATION TEMPLATE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. LI
DRAWN BY
A. TRINH
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
02/17/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

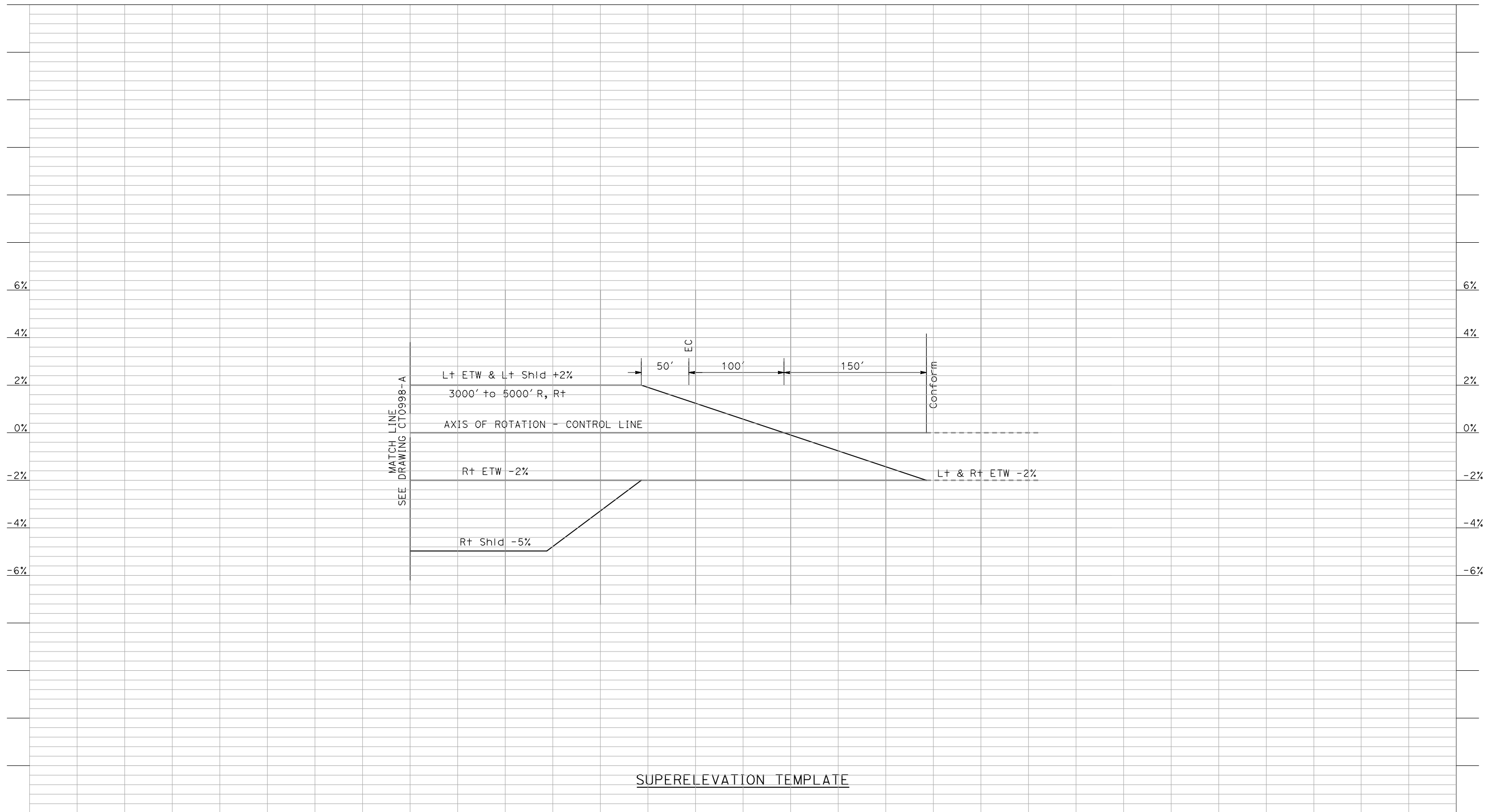


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF - AVE 24 WYE
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 3 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0998-A
SCALE
AS SHOWN
SHEET NO.
OF

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. LI
 DRAWN BY
A. TRINH
 CHECKED BY
A. SILVER
 IN CHARGE
A. BOONE
 DATE
02/17/2011

RECORD SET
15% DESIGN
SUBMITTAL

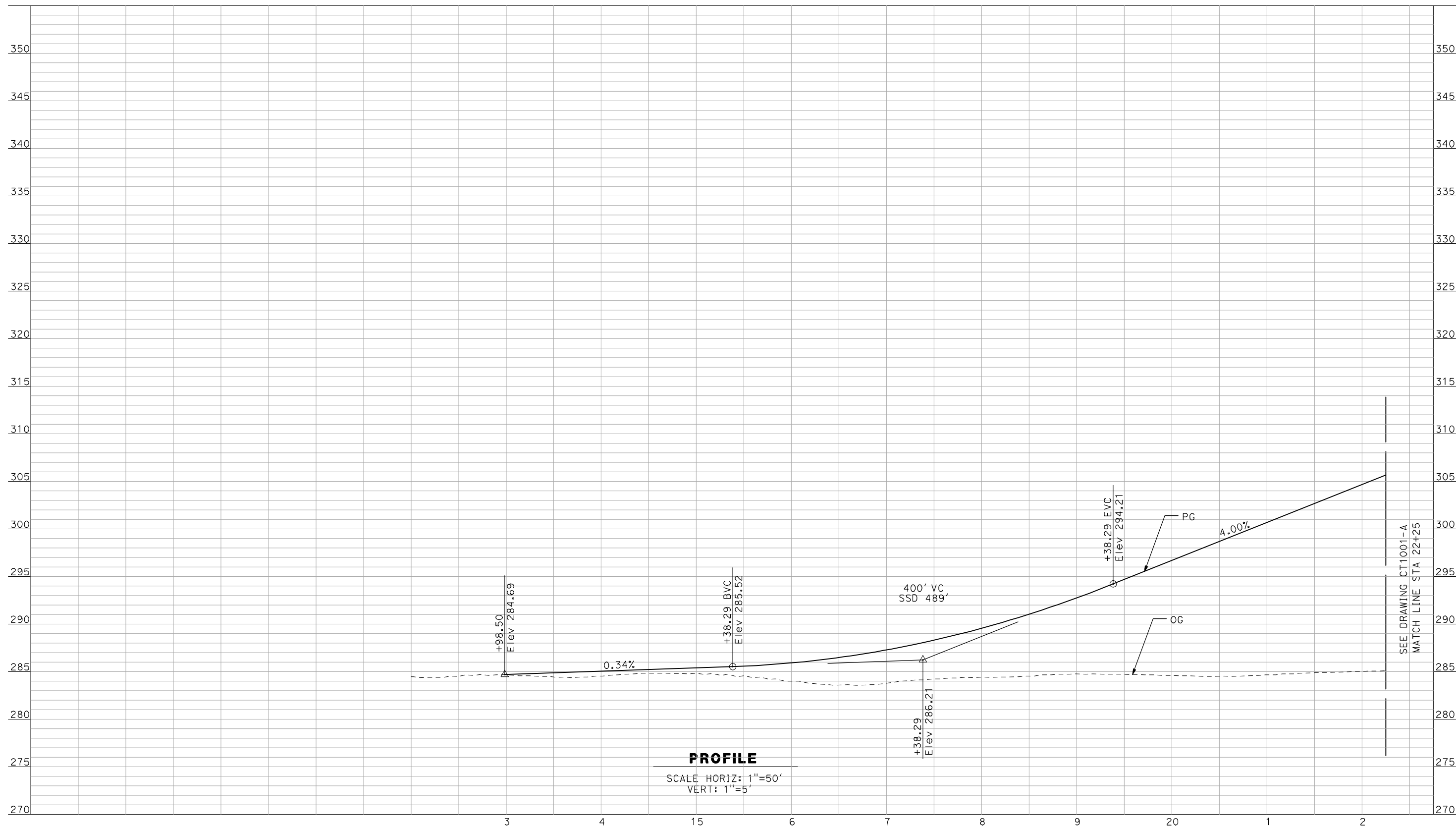
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 24 WYE
 GRADE SEPARATION
 SUPERELEVATION TEMPLATE
 SHEET 4 OF 4

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT0999-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

SEE DRAWING CT1001-A
 MATCH LINE STA 22+25

NOT FOR CONSTRUCTION
 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

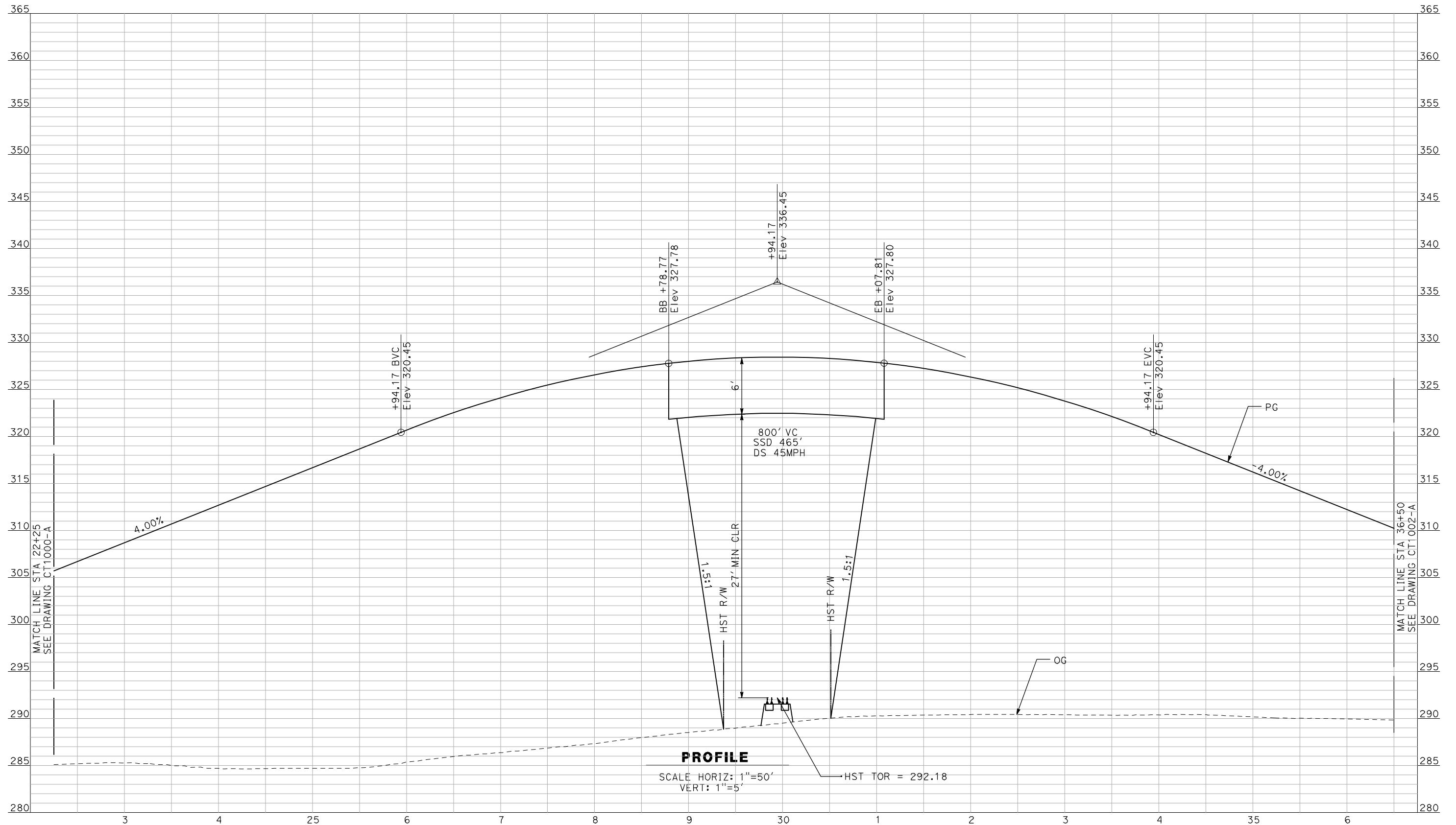
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 9
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1000-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'
 HST TOR = 292.18

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

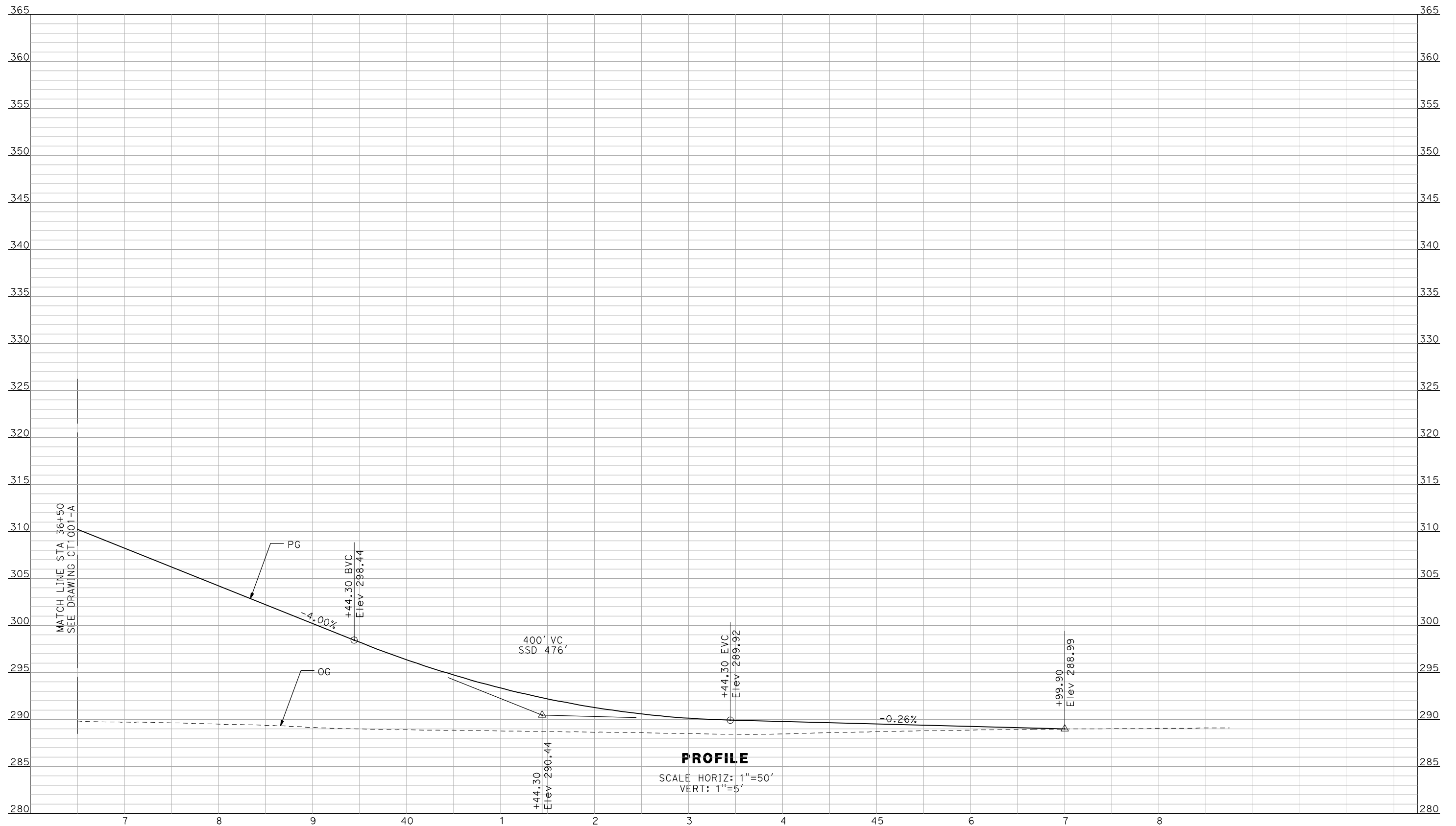
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 9
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1001-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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 GibsonR1



PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

NOT FOR CONSTRUCTION
 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

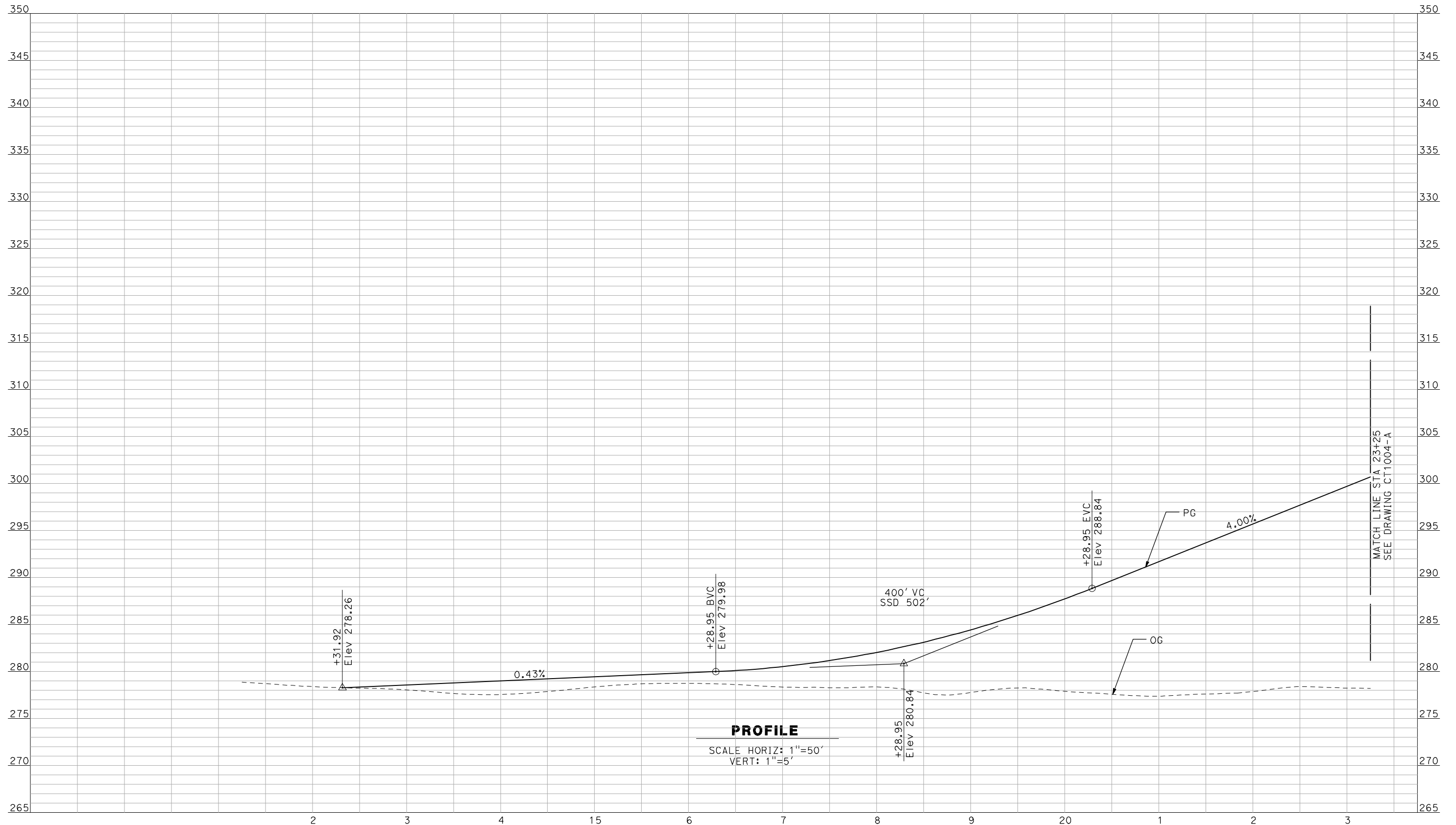
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 9
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1002-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

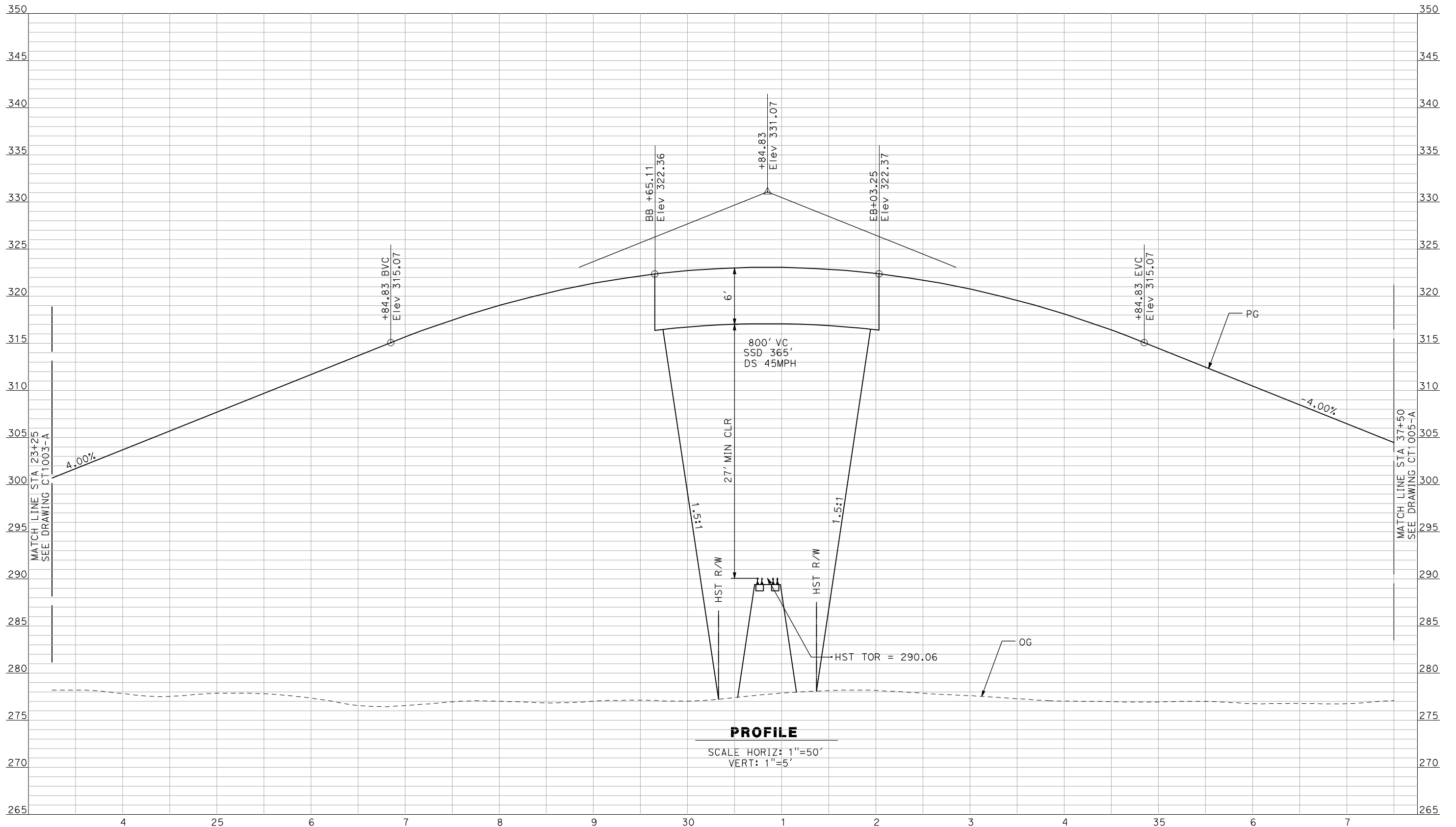
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 10
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1003-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:24:40 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Profile\Common with Ave 21\WF-CT-1004-A.dgn



PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

NOT FOR CONSTRUCTION
 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

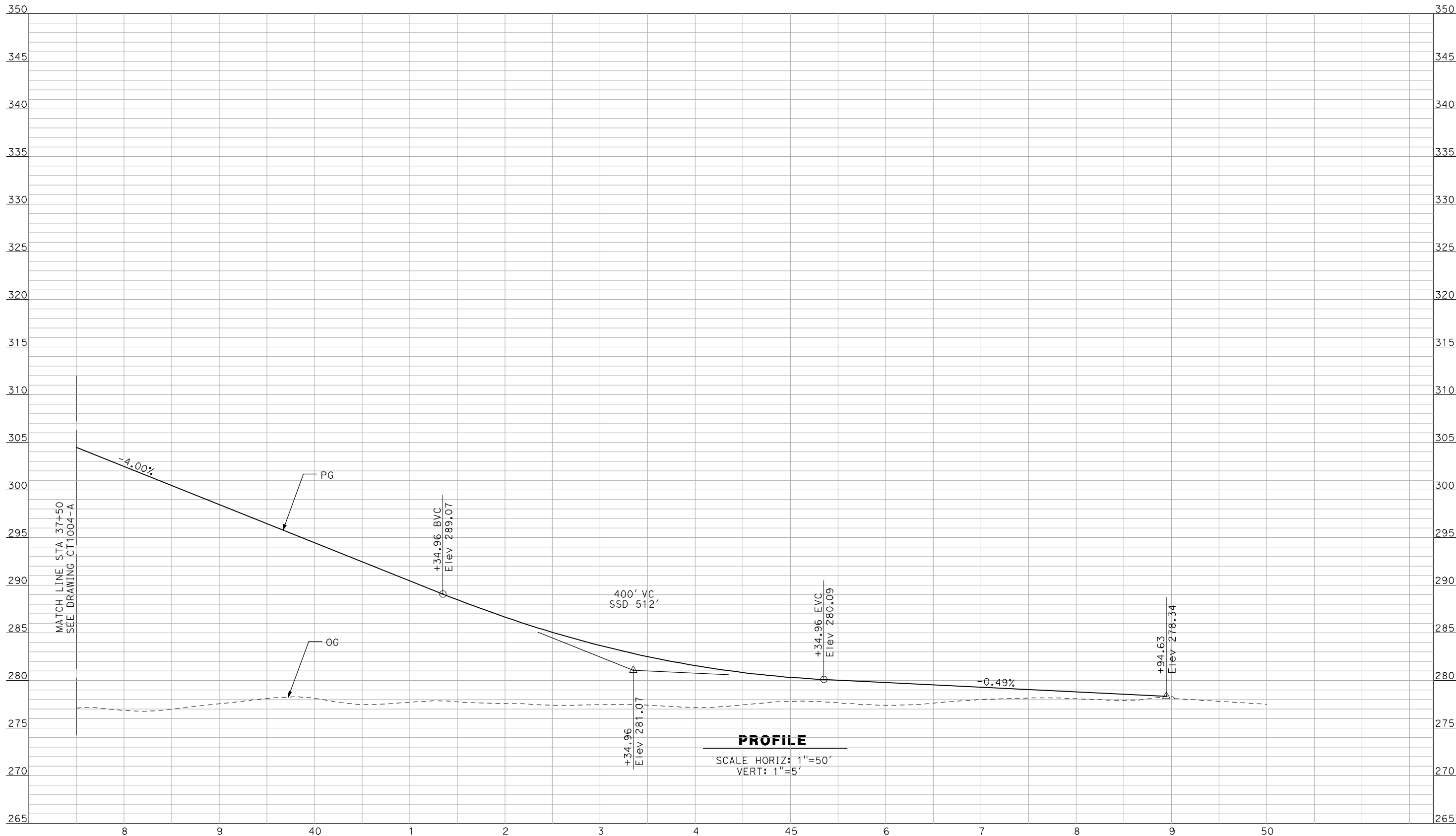
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 10
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1004-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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 GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
 VERT: 1"=5'

NOT FOR CONSTRUCTION
 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

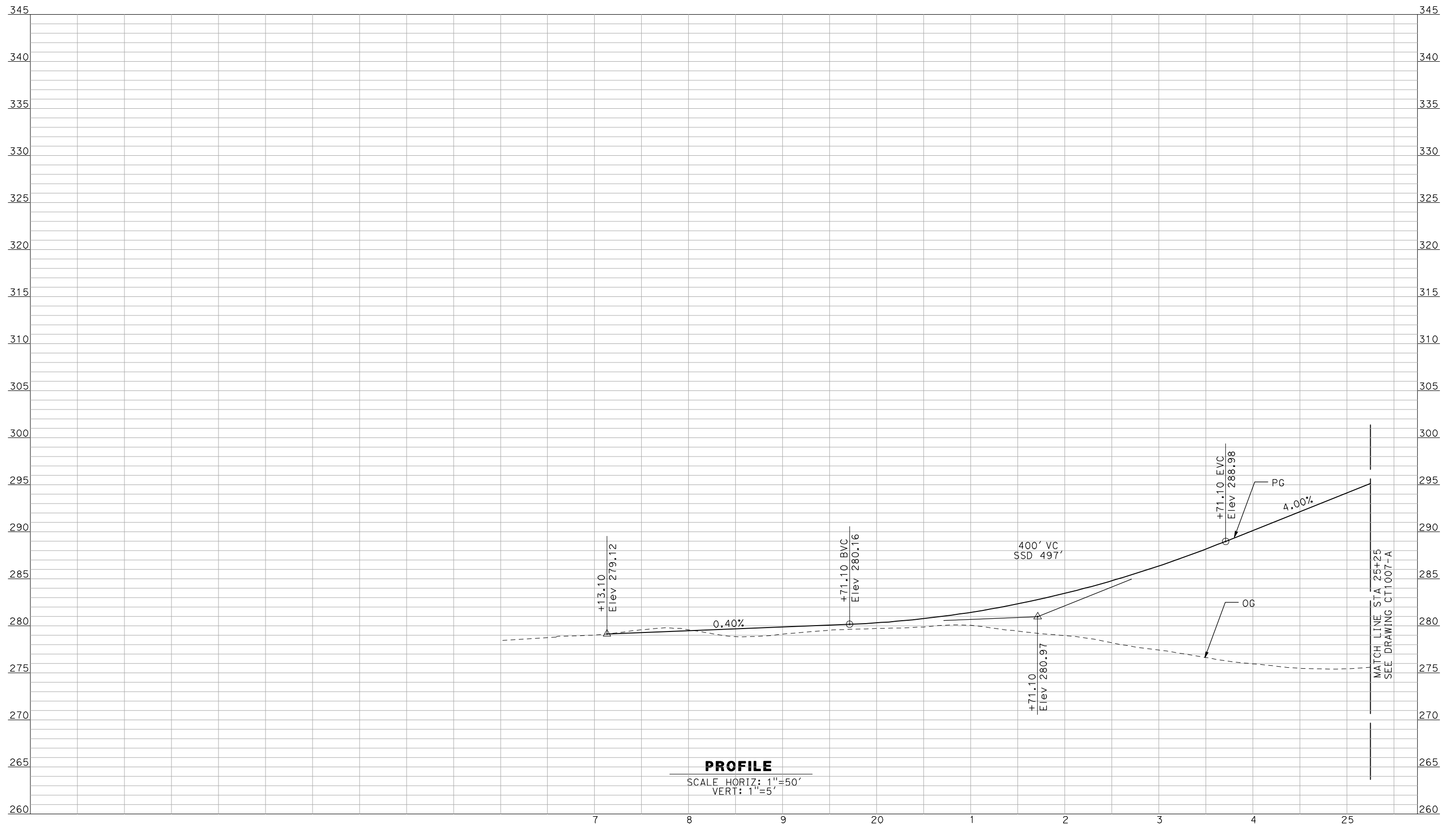
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 10
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1005-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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F. DEMARCO
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J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
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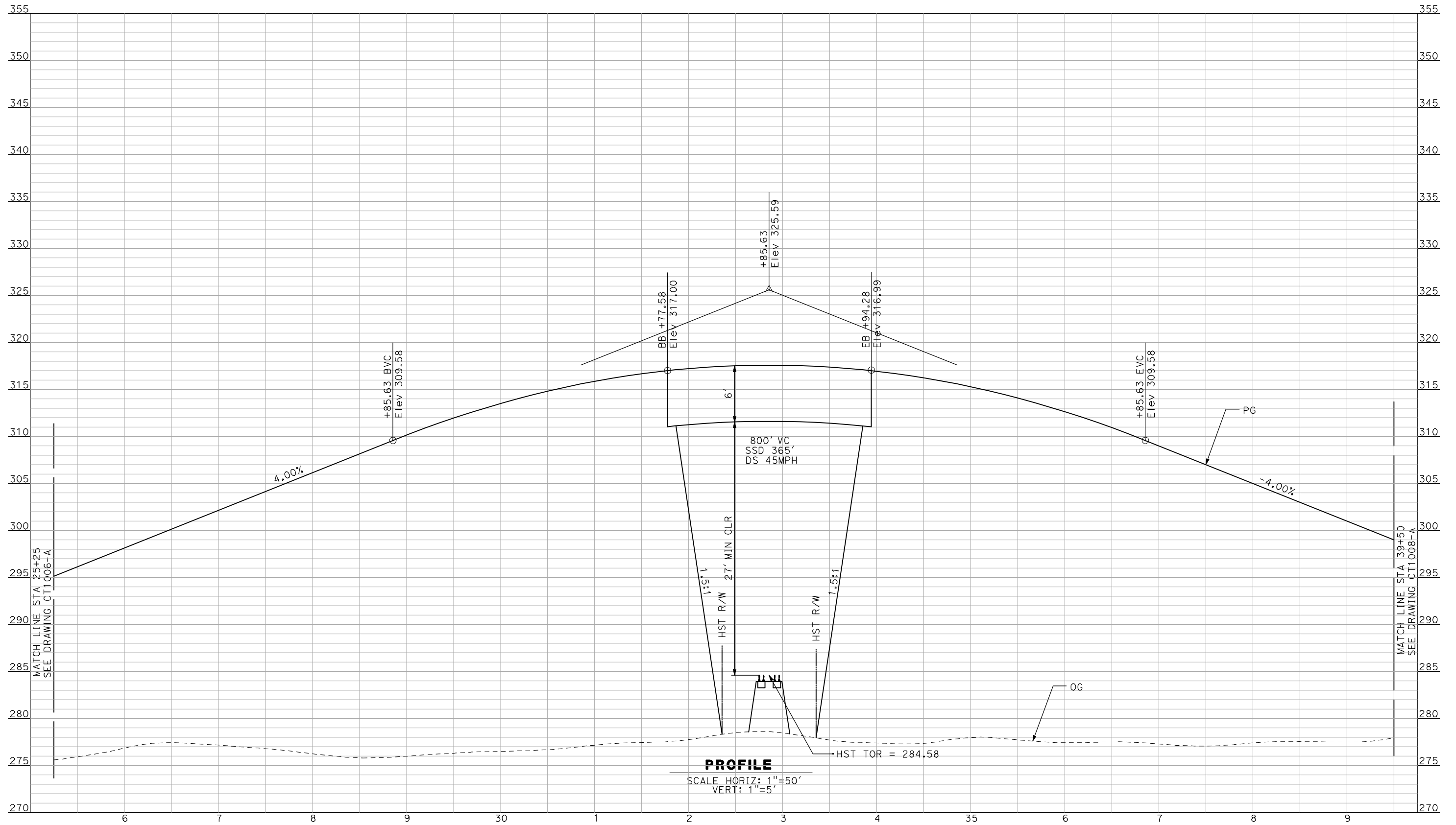
NOT FOR
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 11
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1006-A
 SCALE
AS SHOWN
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OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 A. BOONE
 DATE
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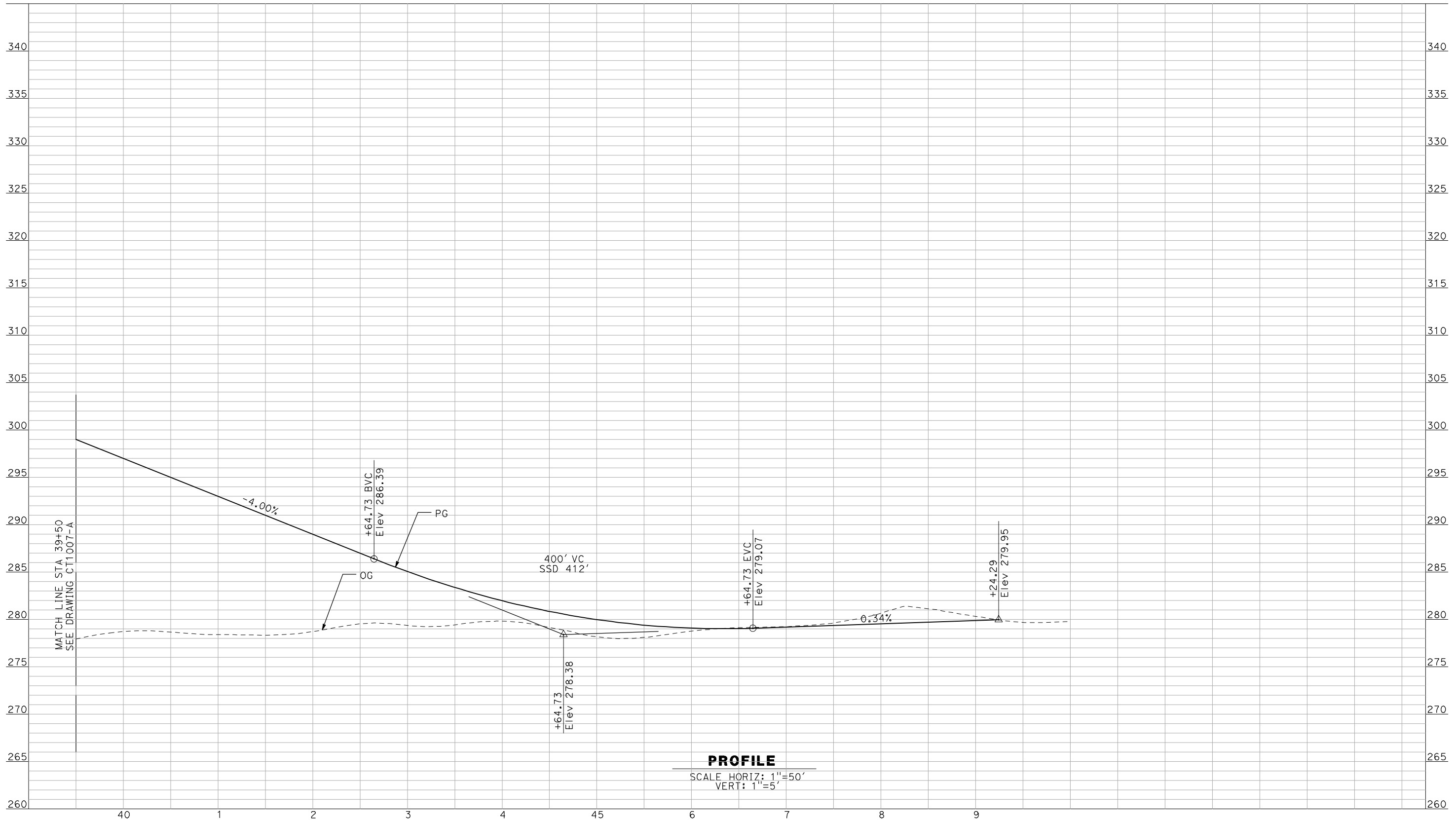
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 11
PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1007-A
 SCALE
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 SHEET NO.
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J. ZANDIAN
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A. BOONE
 DATE
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RECORD SET
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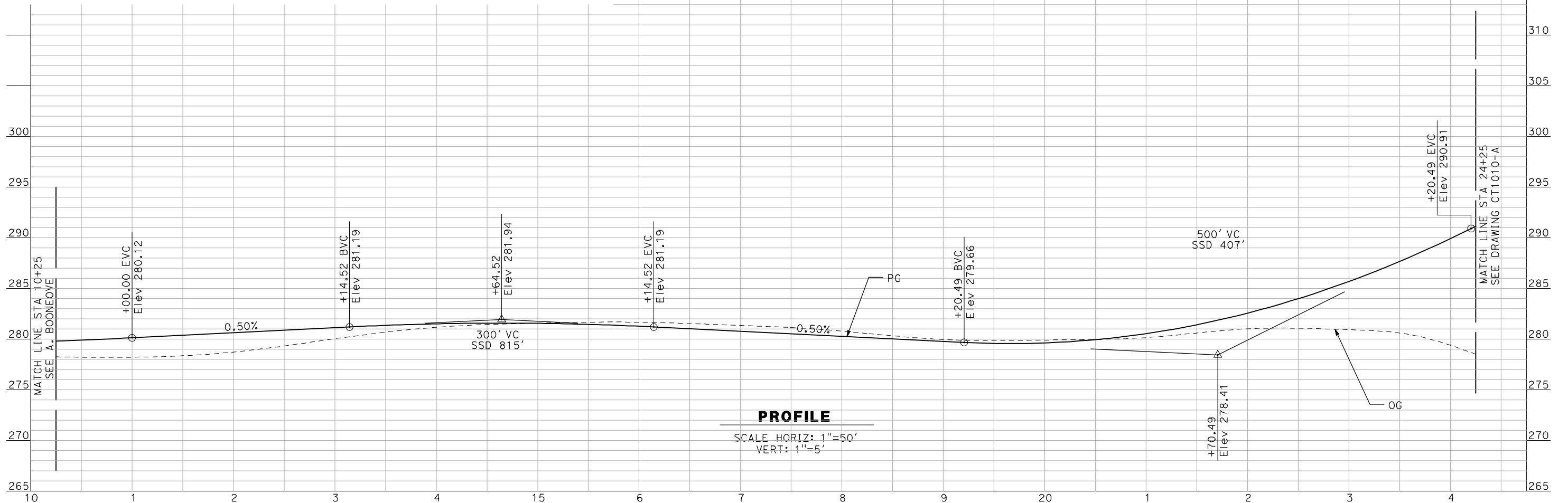
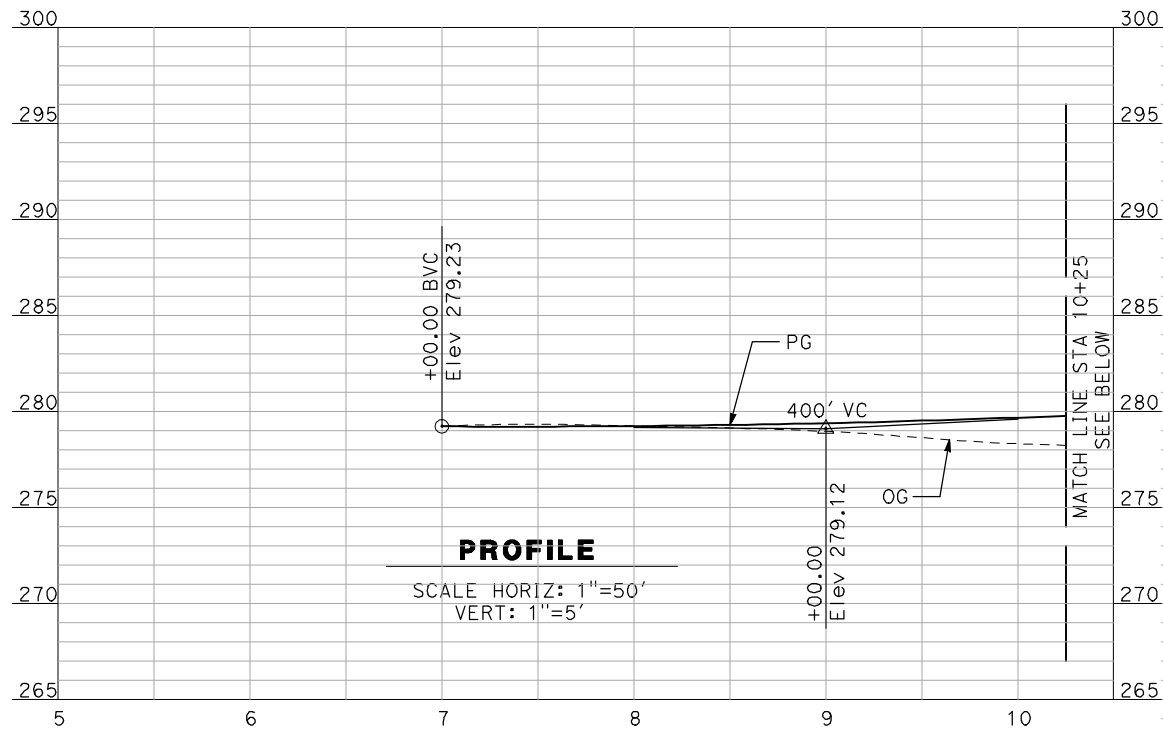
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 11
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1008-A
 SCALE
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 SHEET NO.
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J. ZANDIAN
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A. BOONE
DATE
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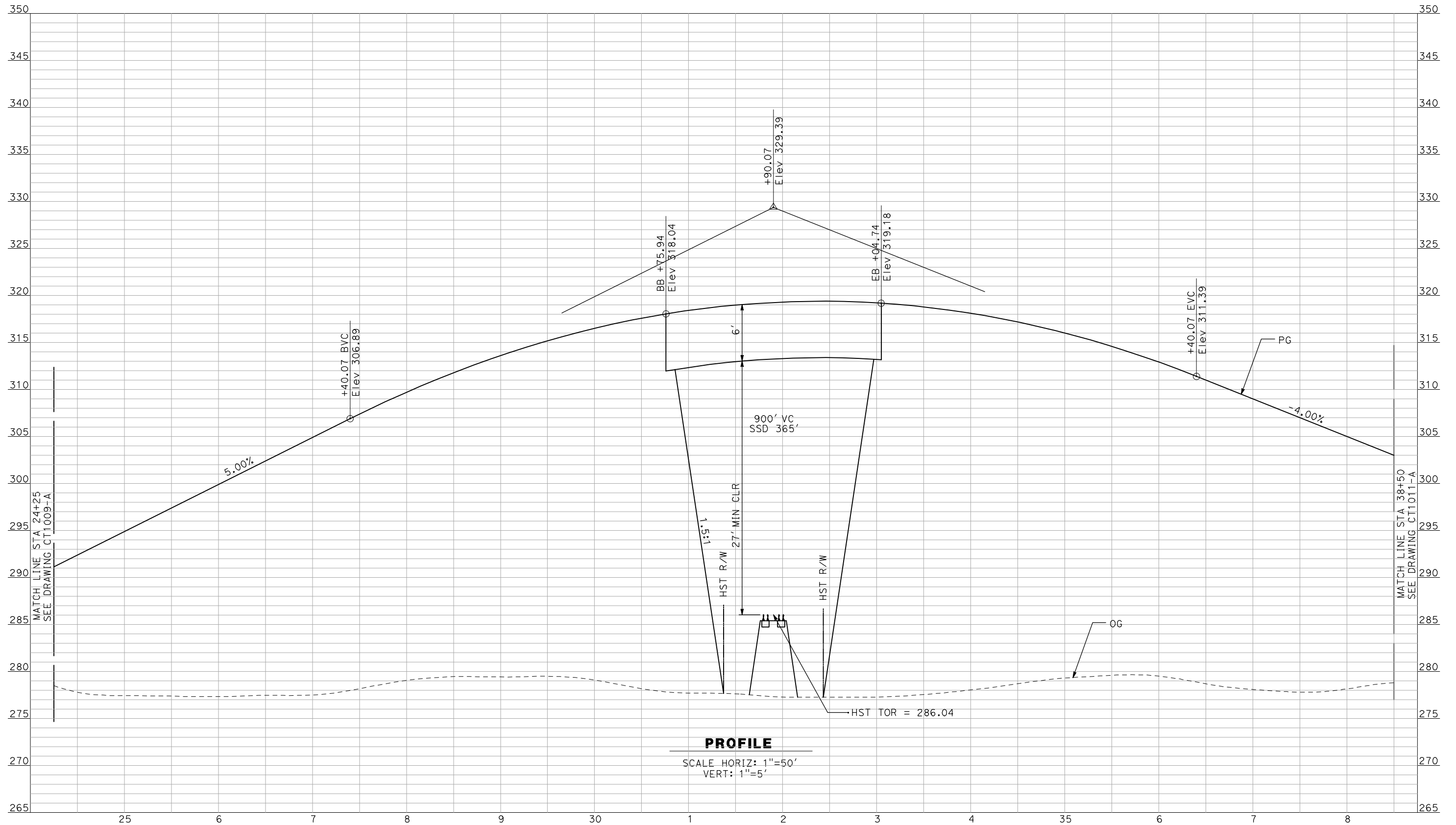
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 12
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1009-A
SCALE
AS SHOWN
SHEET NO.
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 DRAWN BY
 F. DEMARCO
 CHECKED BY
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 A. BOONE
 DATE
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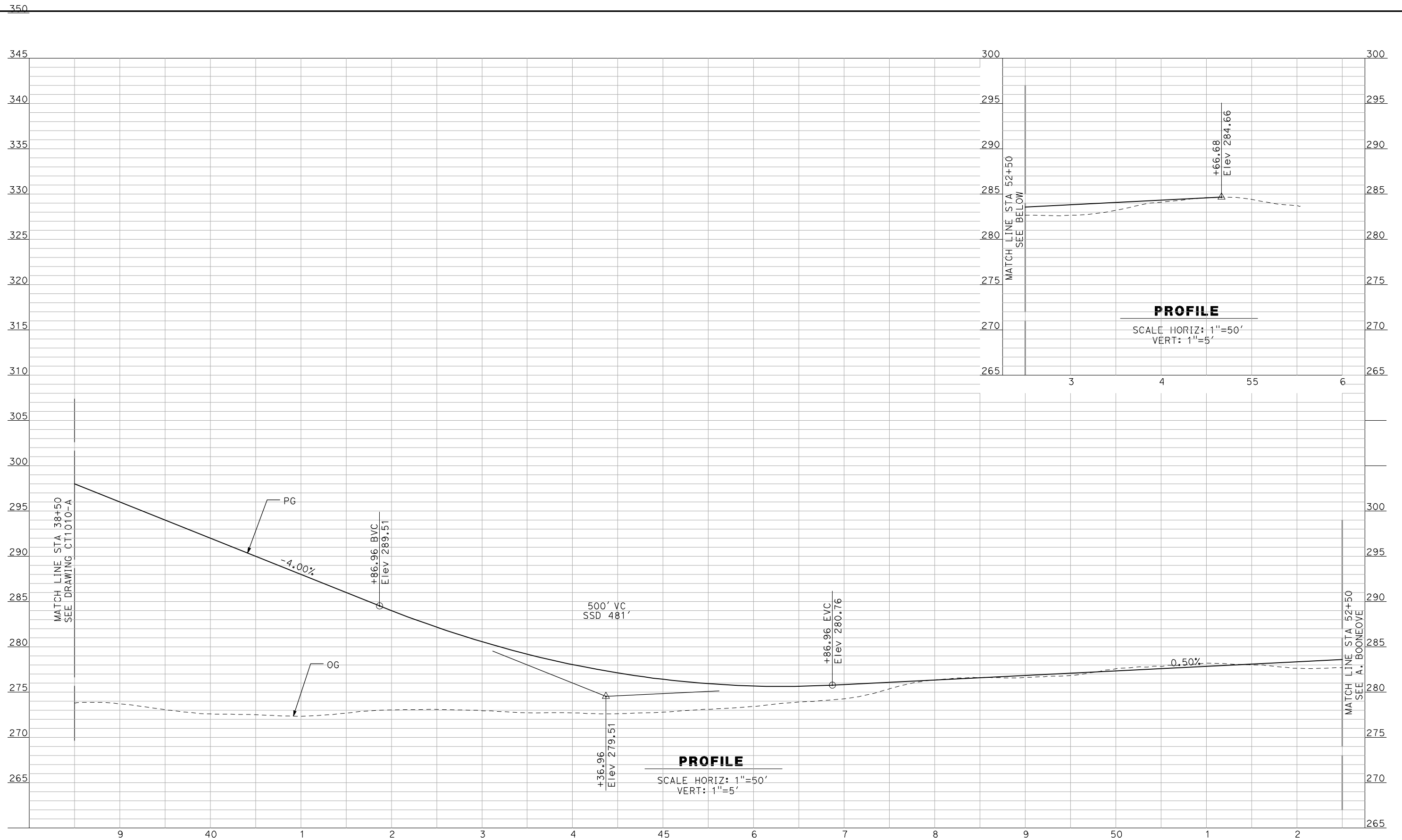
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 12
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1010-A
 SCALE
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 SHEET NO.
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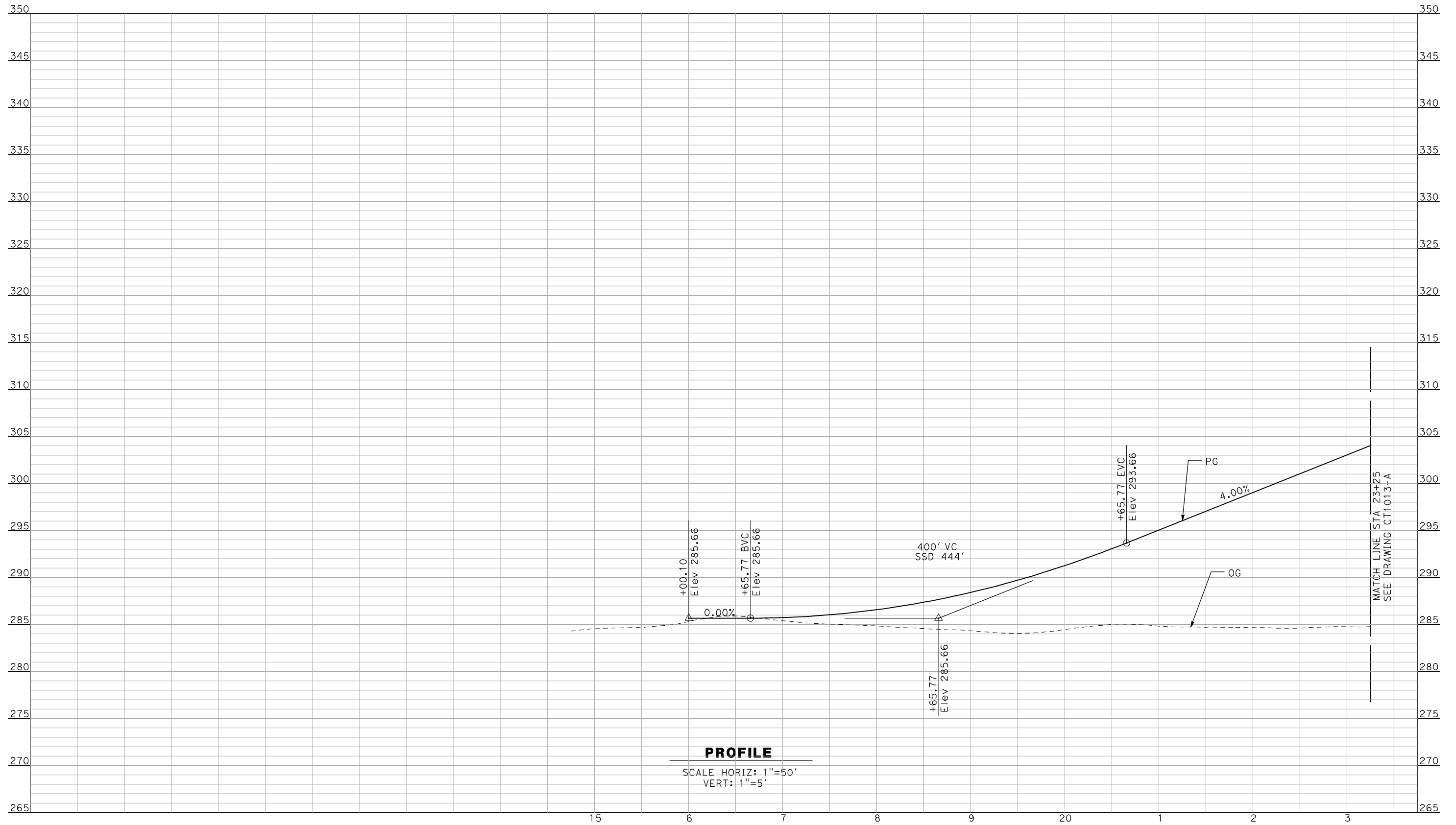
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 12
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1011-A
 SCALE
AS SHOWN
 SHEET NO.
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PROFILE

SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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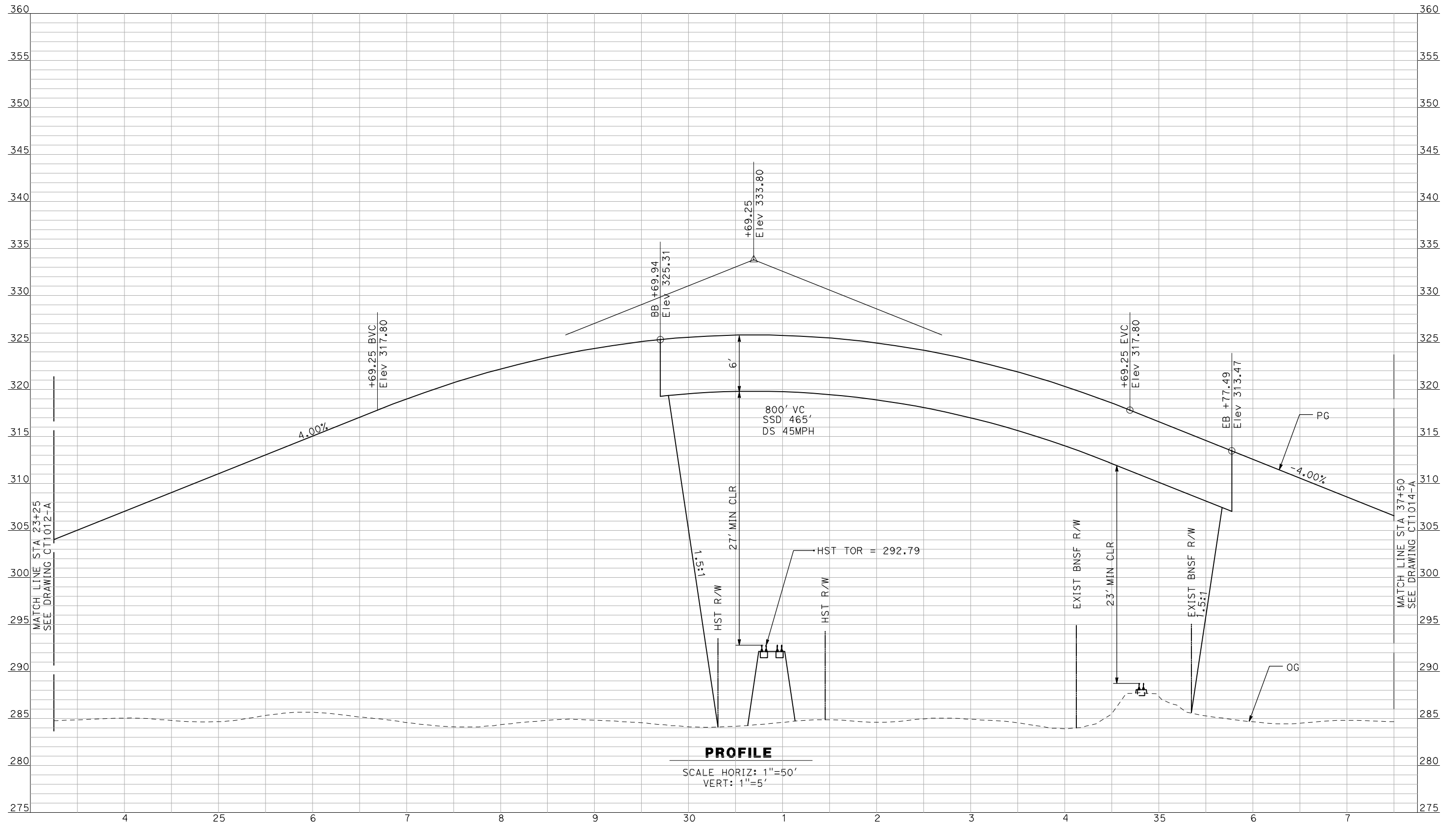
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 13
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
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 CT1012-A
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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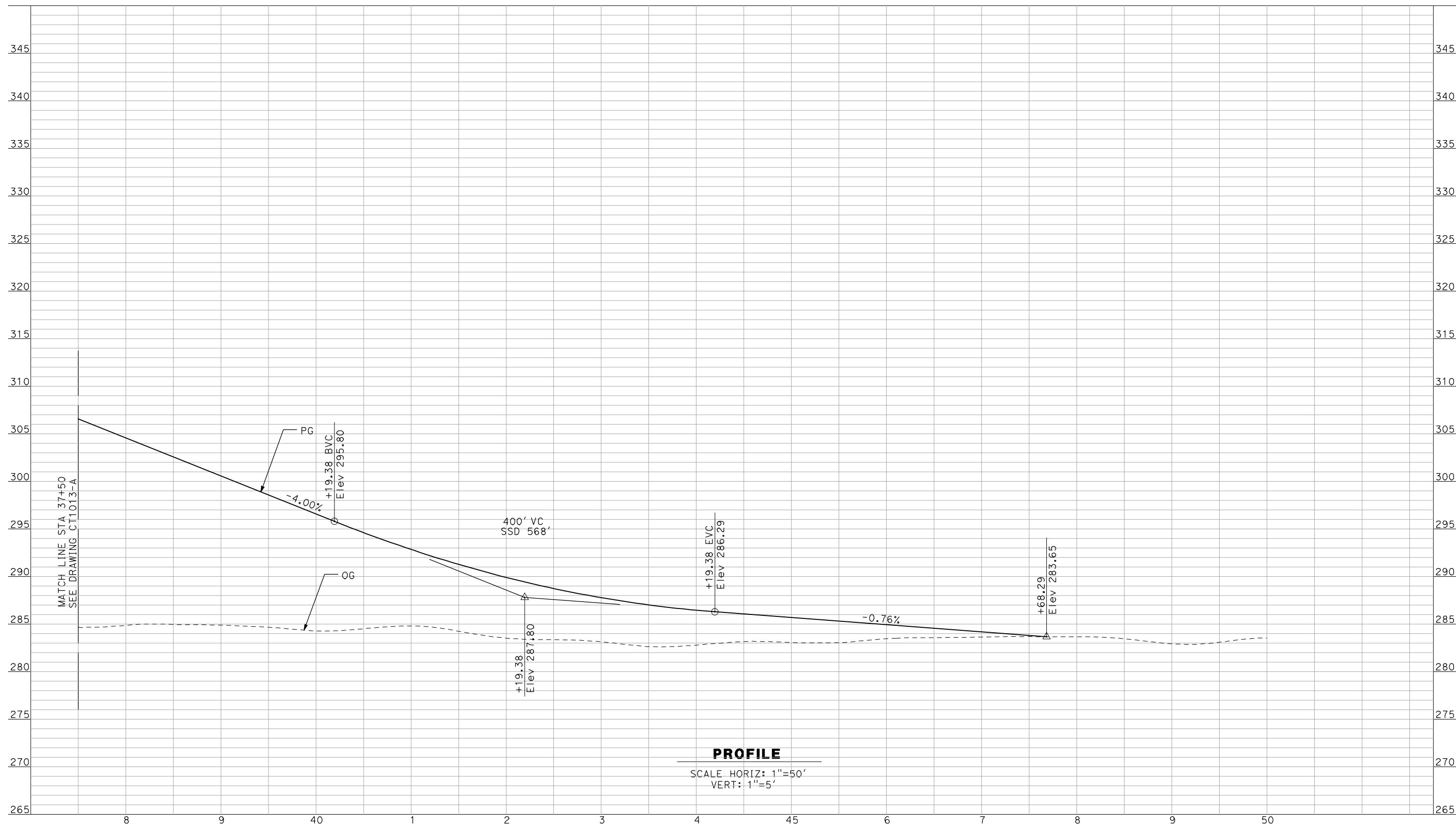
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 13
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
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 DRAWING NO.
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 SHEET NO.
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A. BOONE
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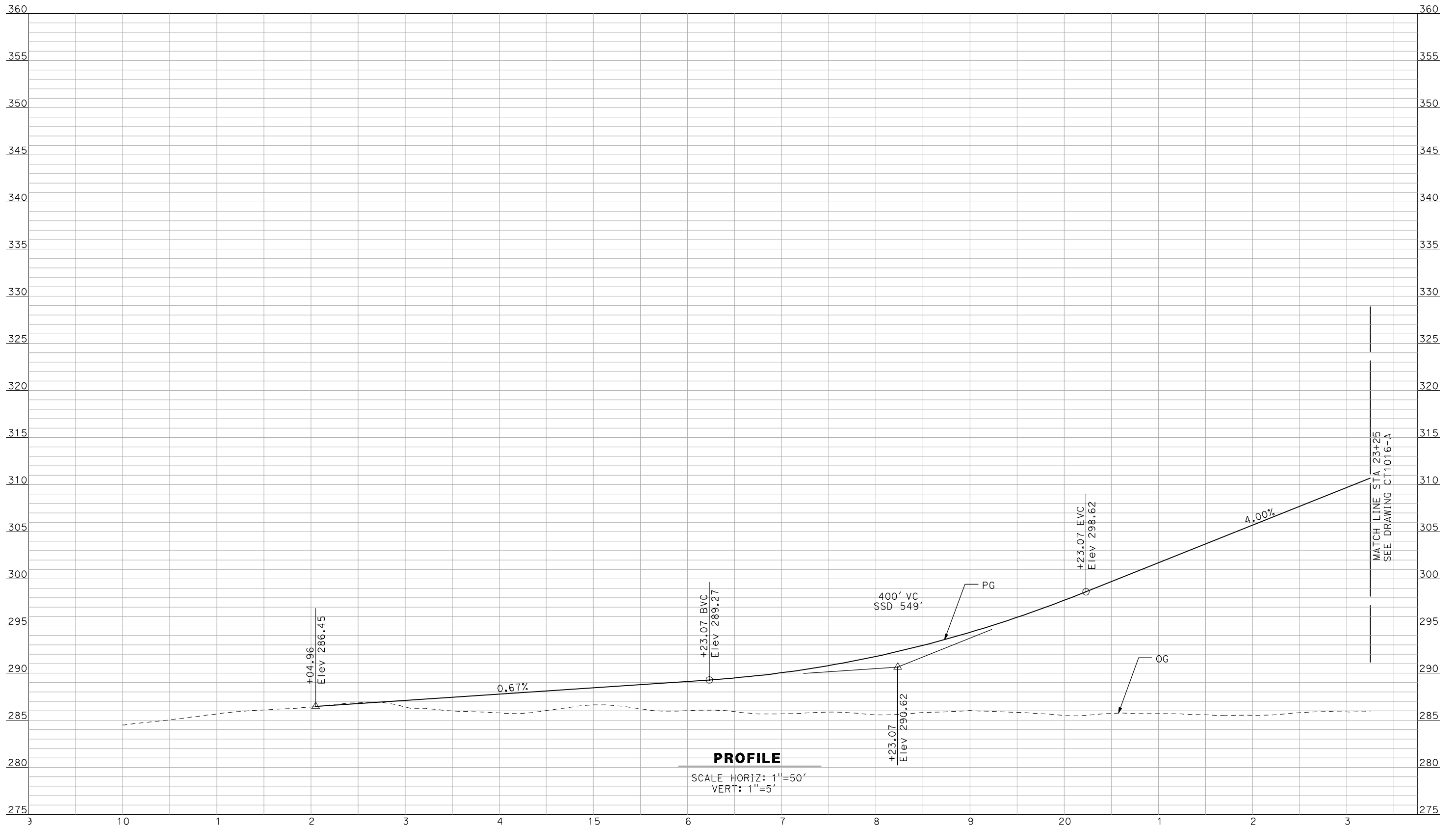
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 13
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1014-A
 SCALE
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 SHEET NO.
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 GibsonR1



PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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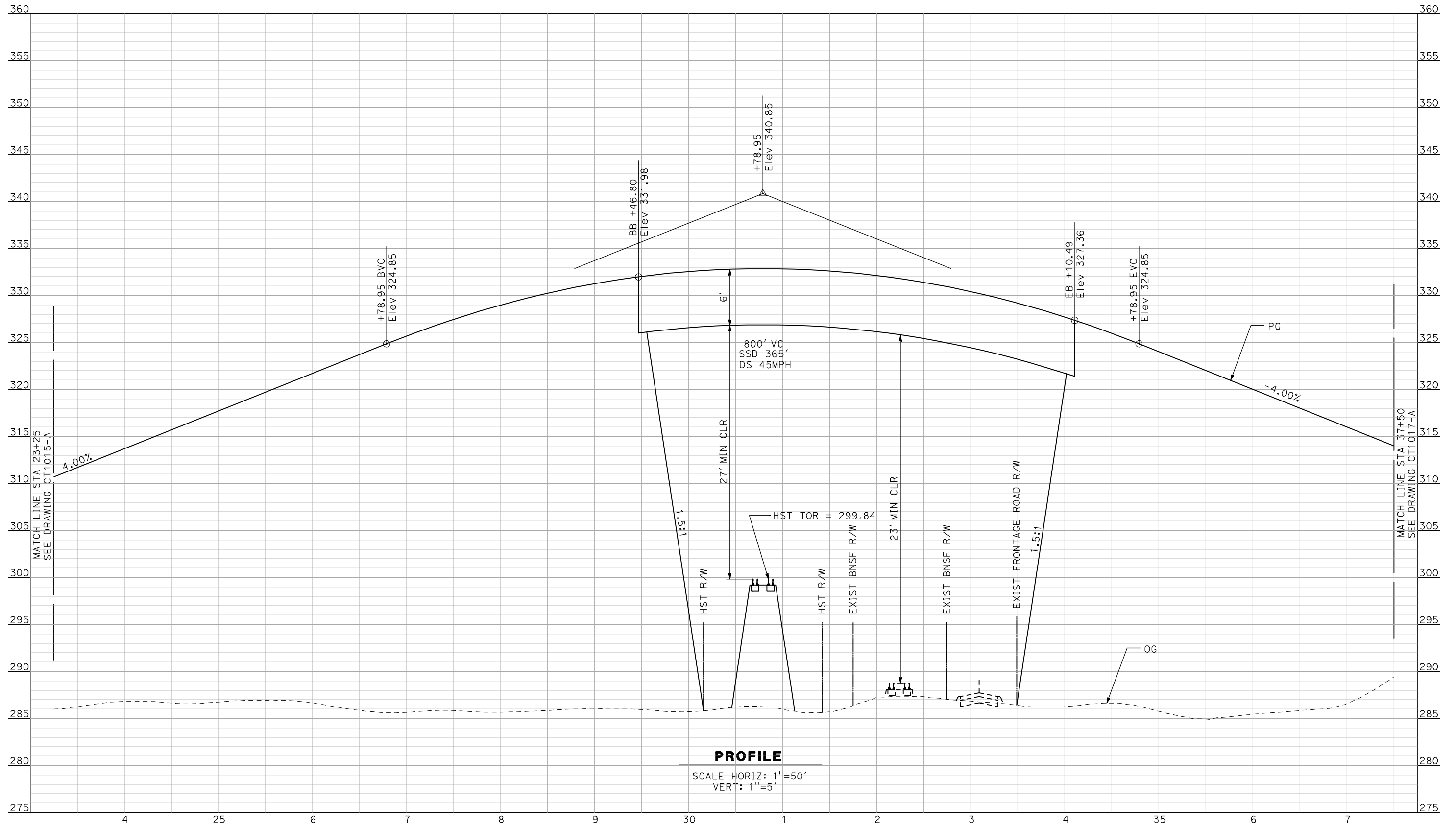
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 15
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
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 CT1015-A
 SCALE
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 SHEET NO.
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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F. DEMARCO
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J. ZANDIAN
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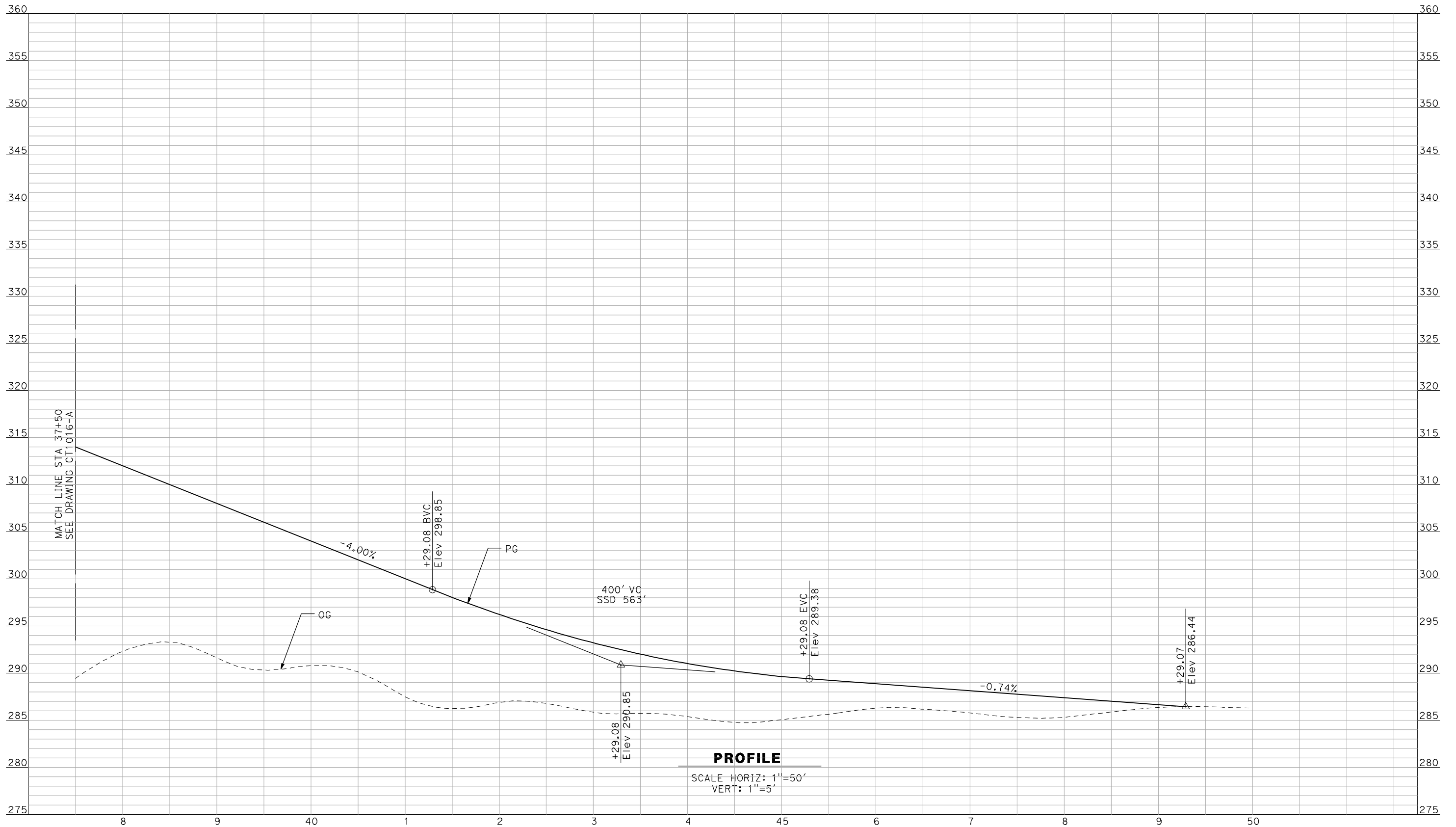
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 15
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
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 SCALE
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J. ZANDIAN
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A. BOONE
 DATE
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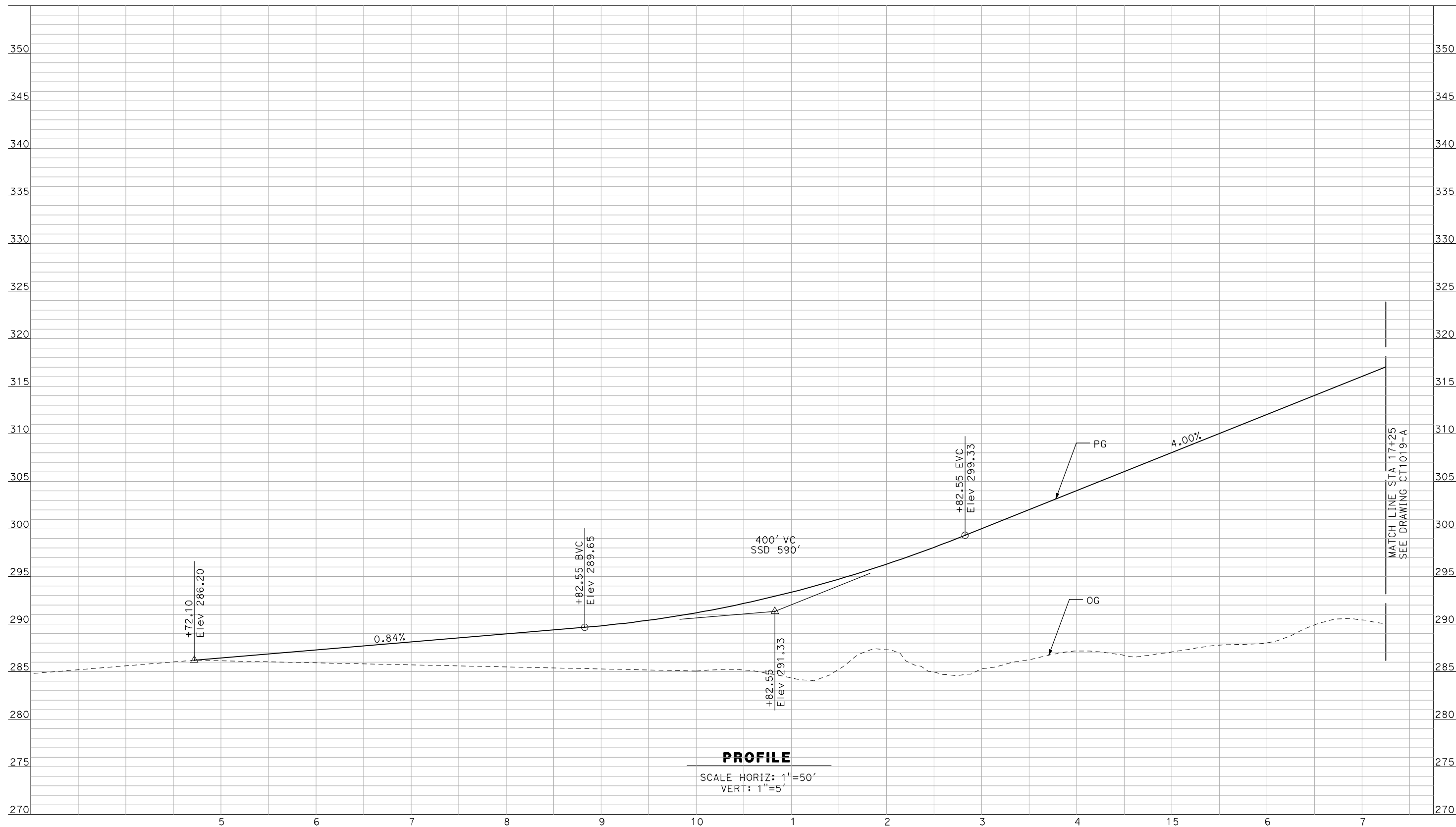
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 15
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
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CT1017-A
 SCALE
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OF

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 GibsonR1



PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 A. BOONE
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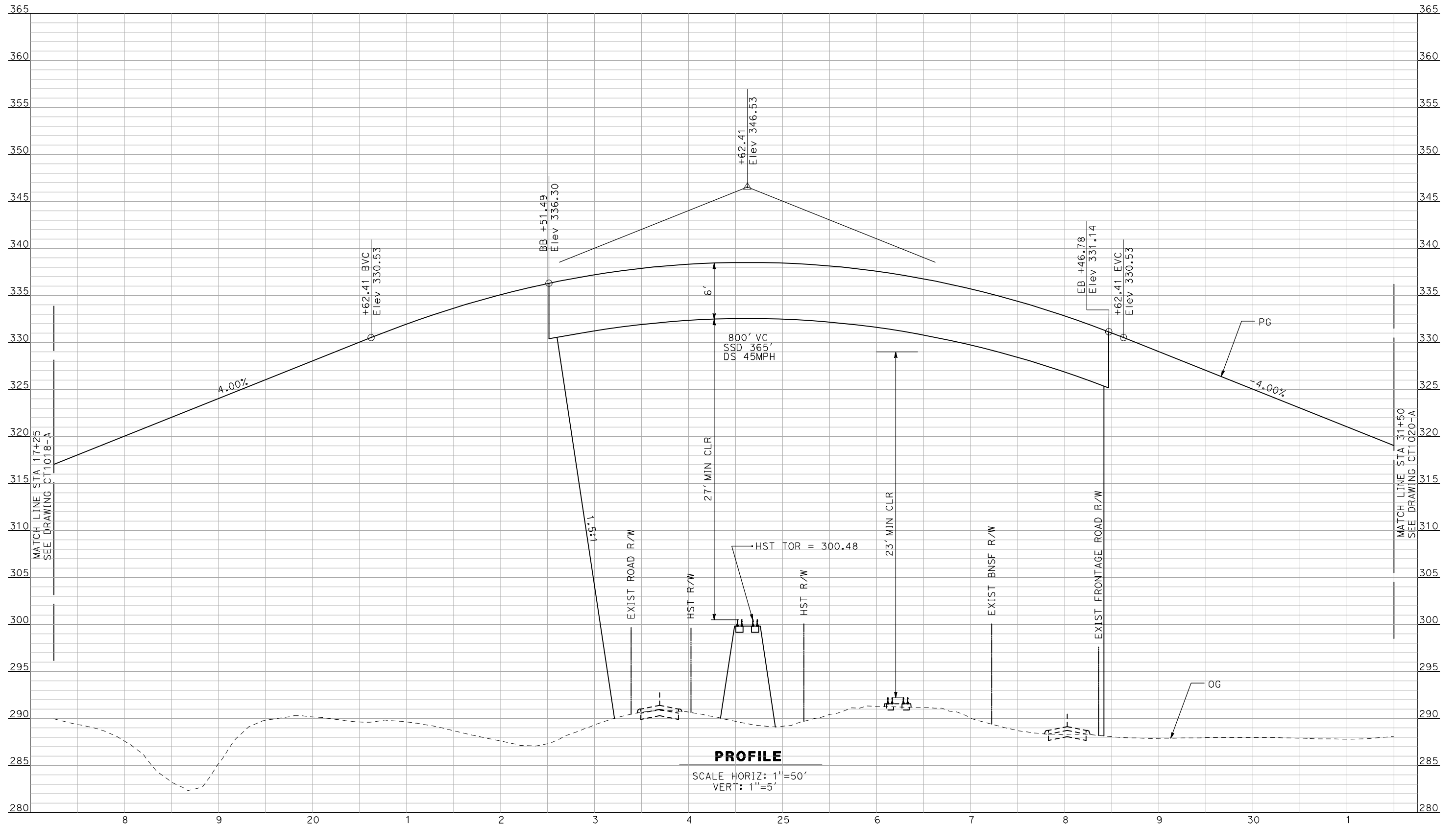
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 15 1/2
 PROFILE
 SHEET 1 OF 3

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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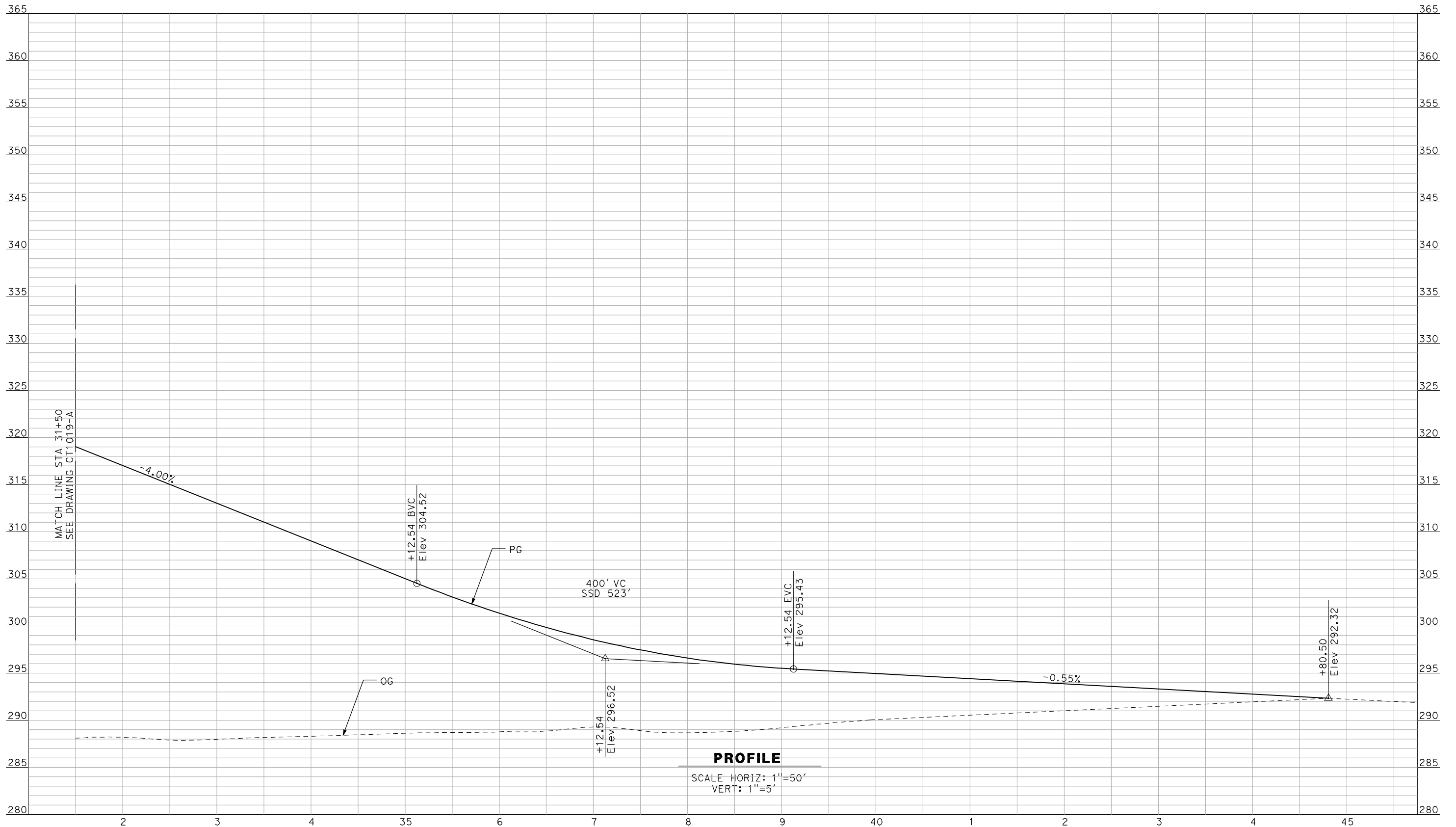
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 15 1/2
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1019-A
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J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
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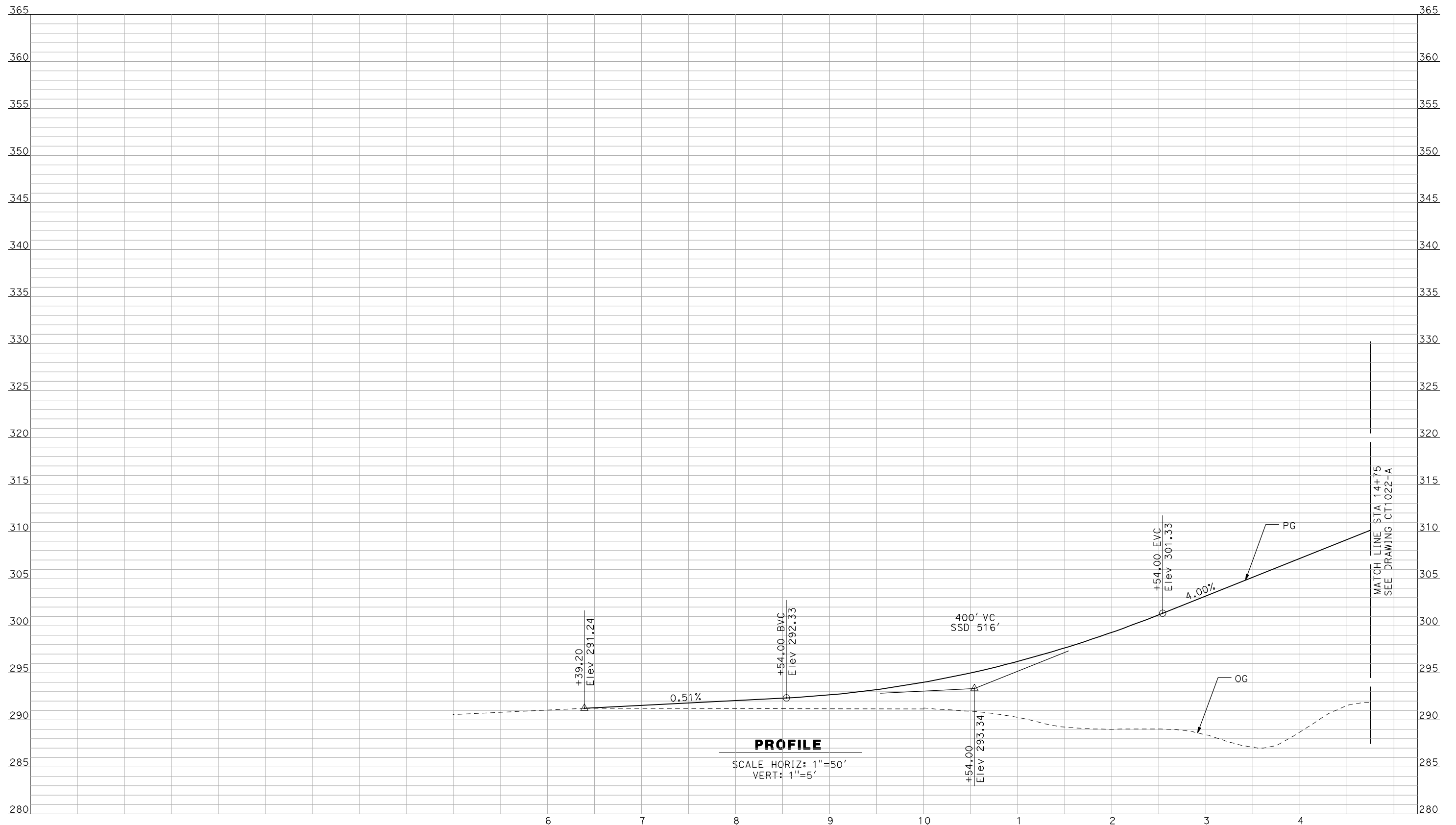
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 15 1/2
PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1020-A
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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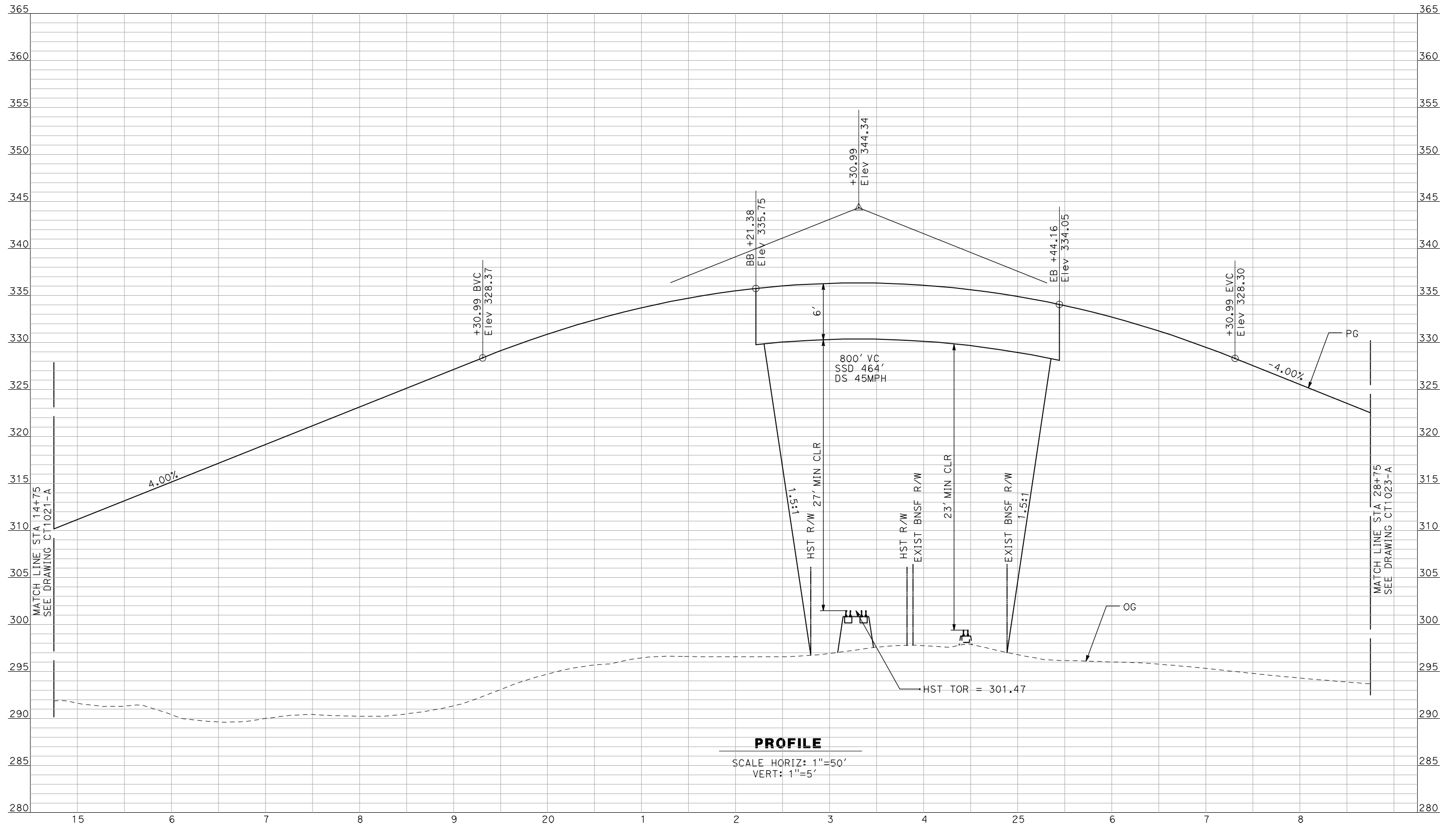
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - RAYMOND RD
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1021-A
SCALE
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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IN CHARGE
A. BOONE
DATE
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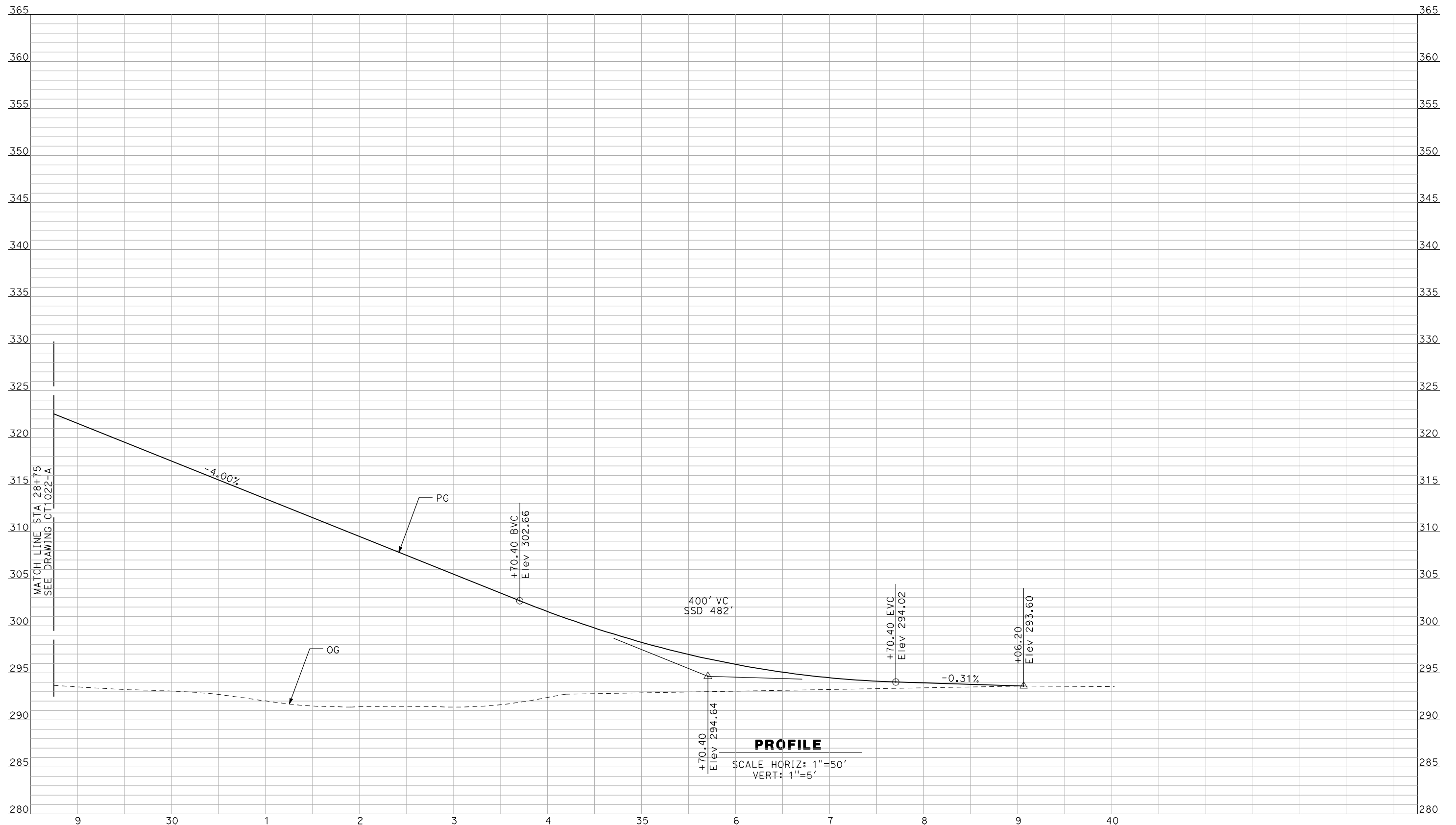


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - RAYMOND RD
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1022-A
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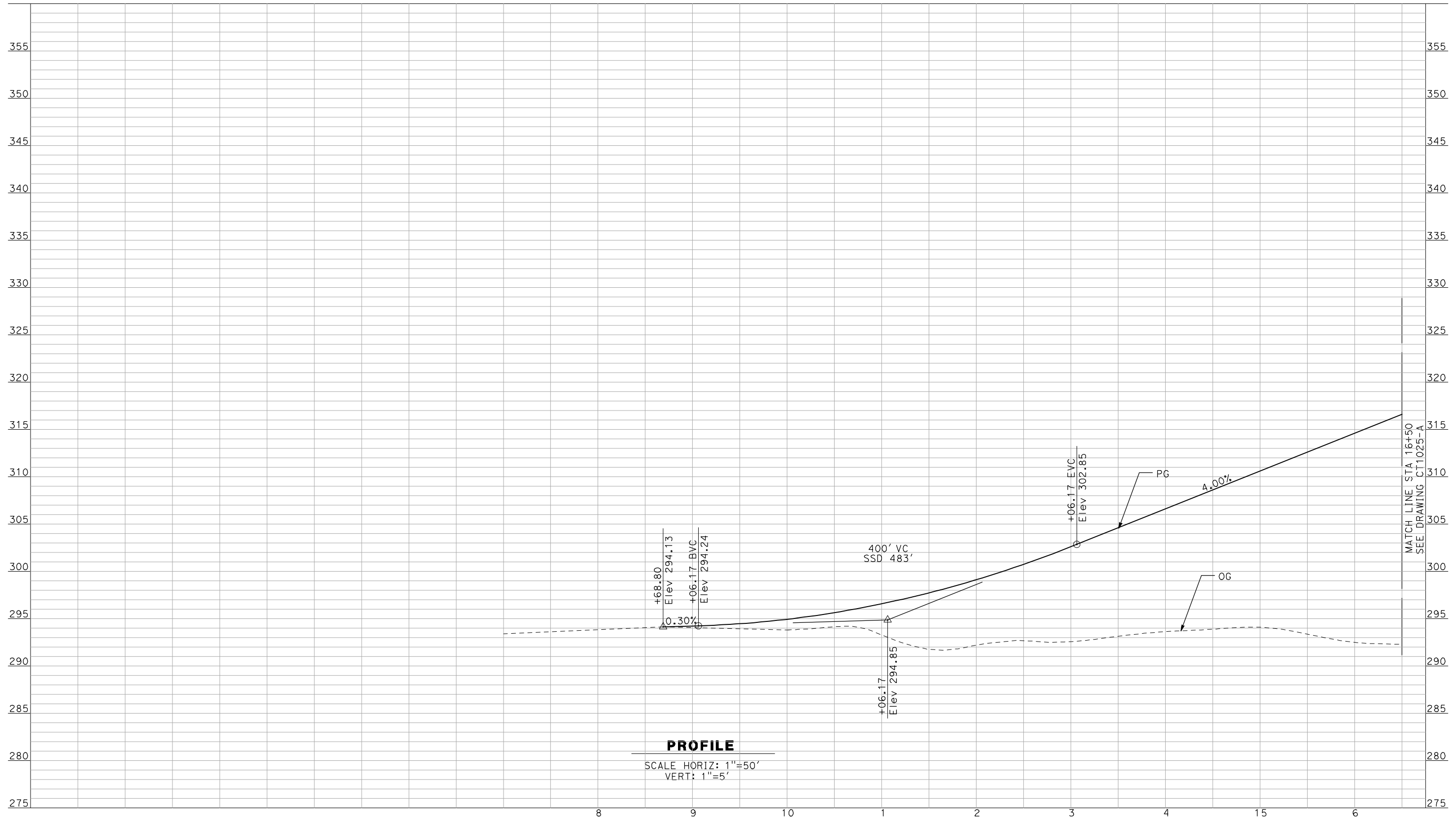
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - RAYMOND RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1023-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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A. BOONE
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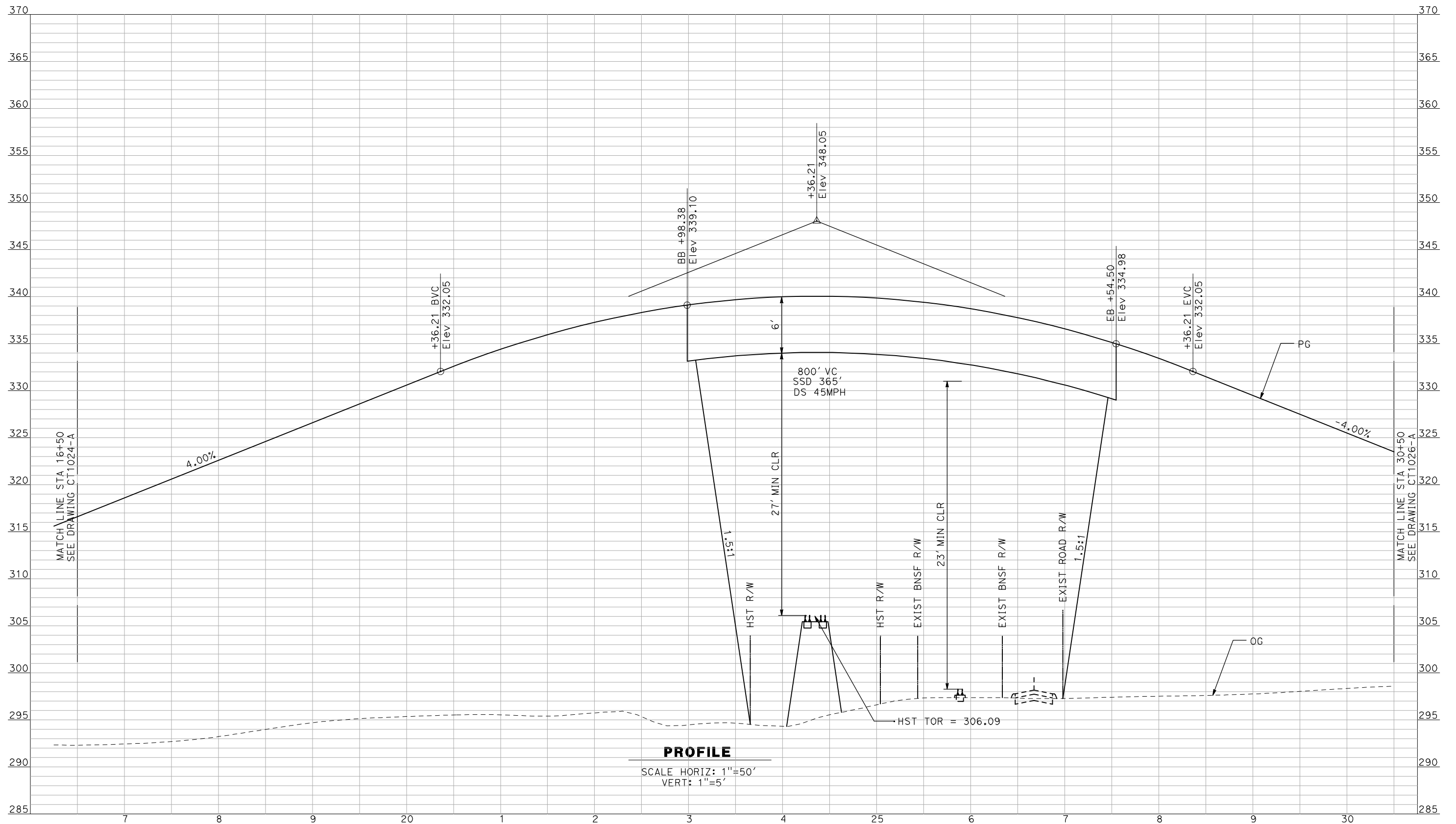
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 17
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1024-A
 SCALE
AS SHOWN
 SHEET NO.
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 A. BOONE
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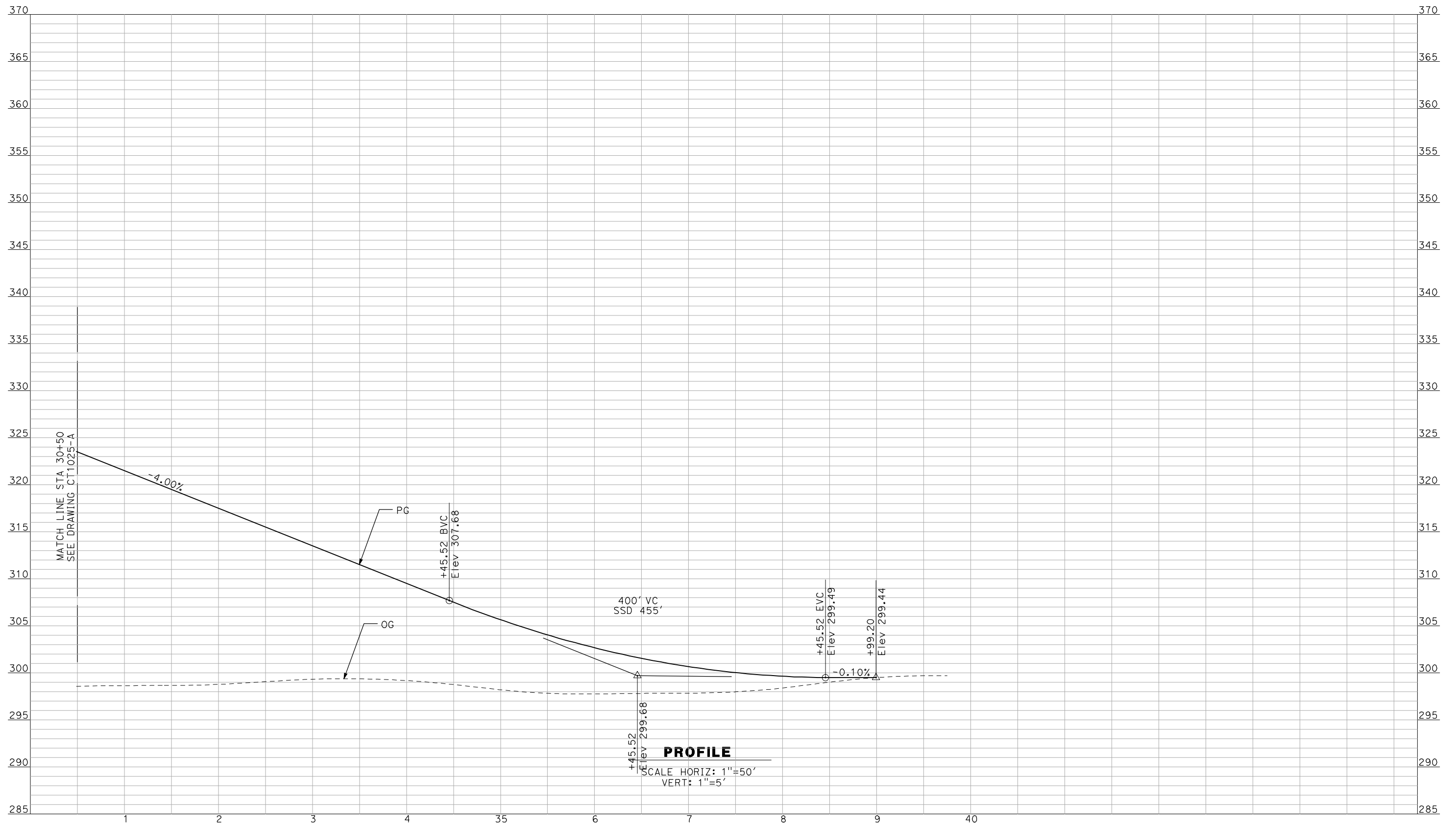
NOT FOR
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 17
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1025-A
 SCALE
 AS SHOWN
 SHEET NO.
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DESIGNED BY
R. GIBSON
 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

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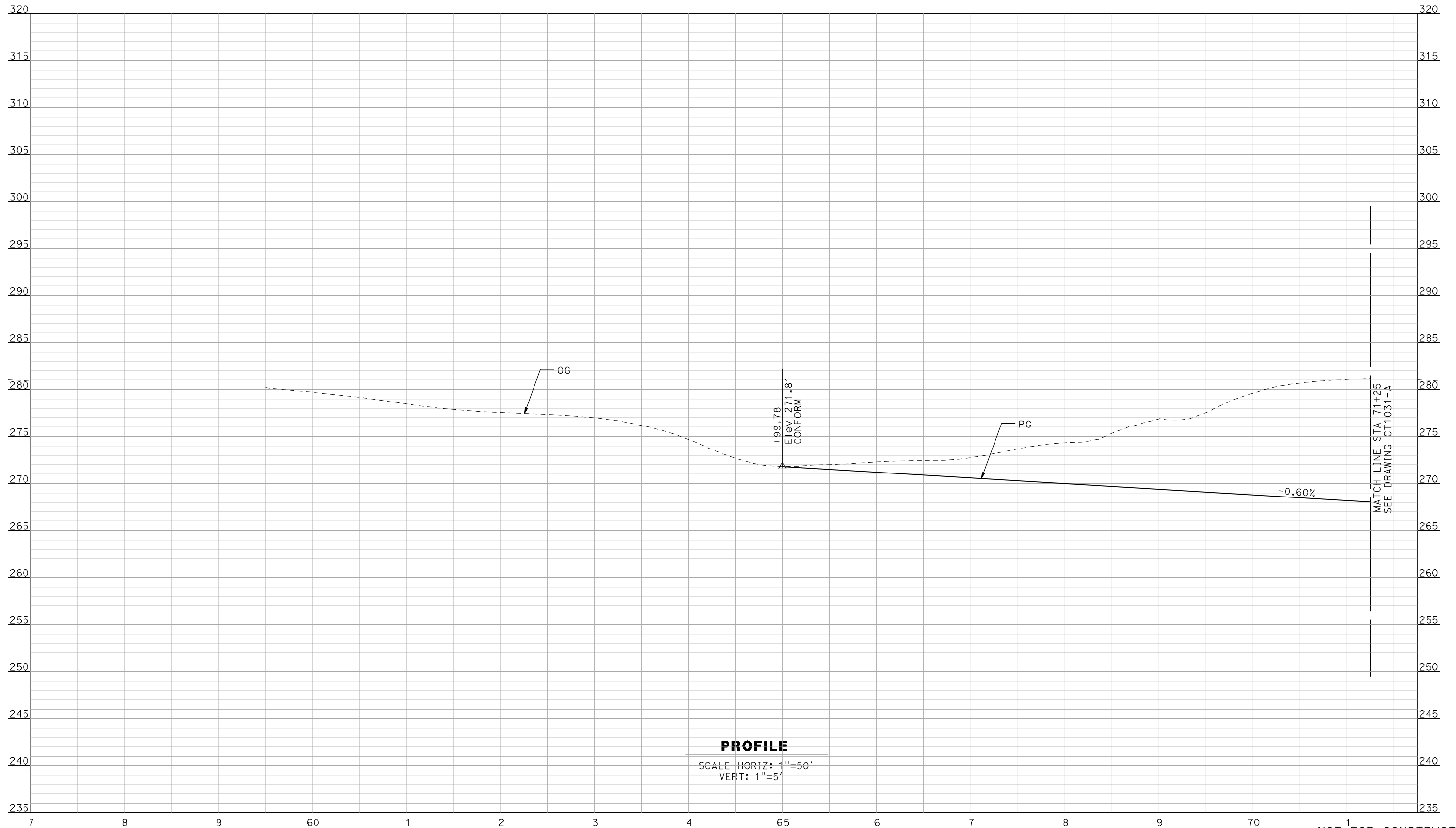
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 17
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1026-T
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
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SUBMITTAL

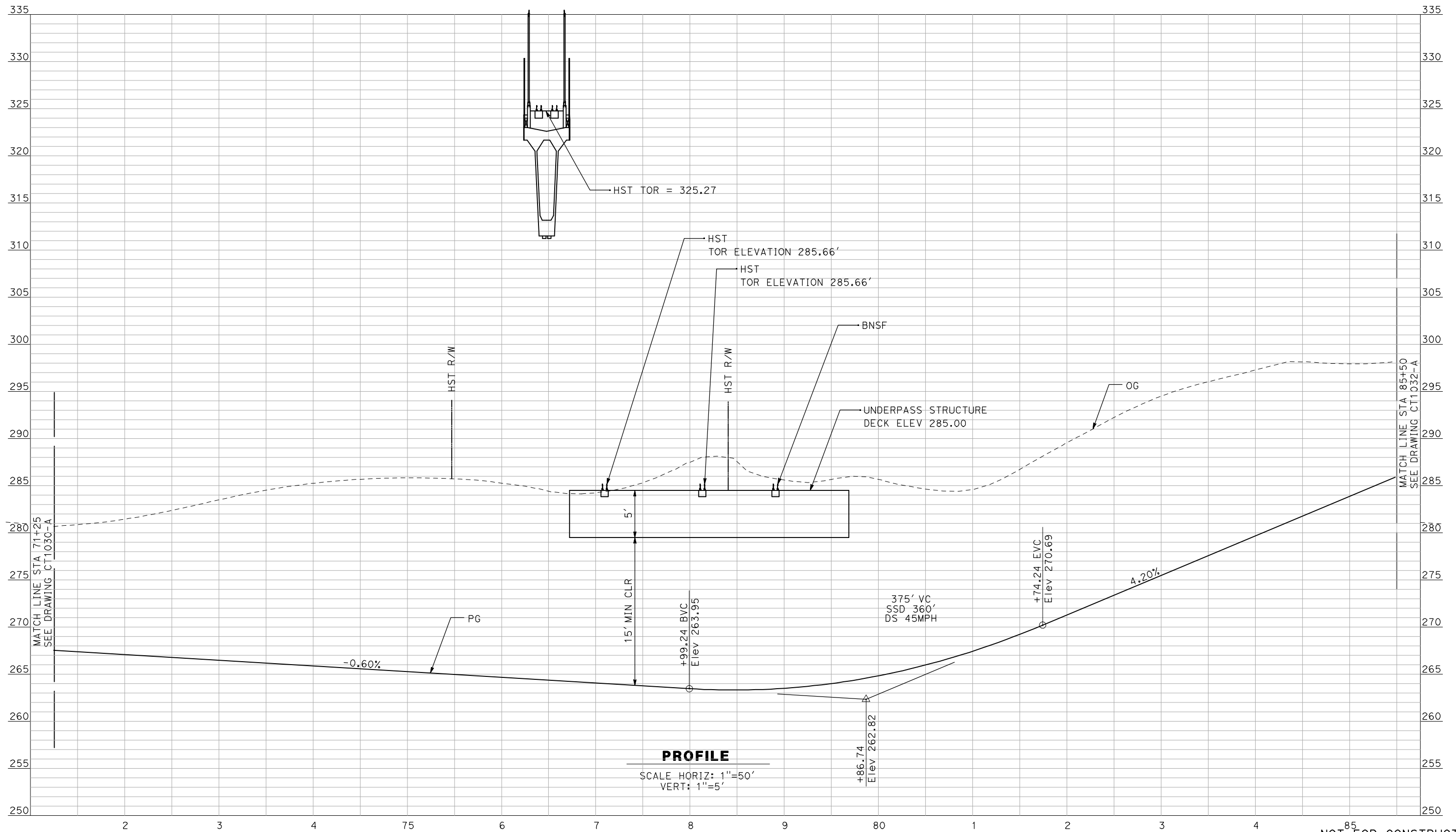
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 UNDERPASS - ROAD 26
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1030-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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F. DEMARCO
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J. ZANDIAN
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A. BOONE
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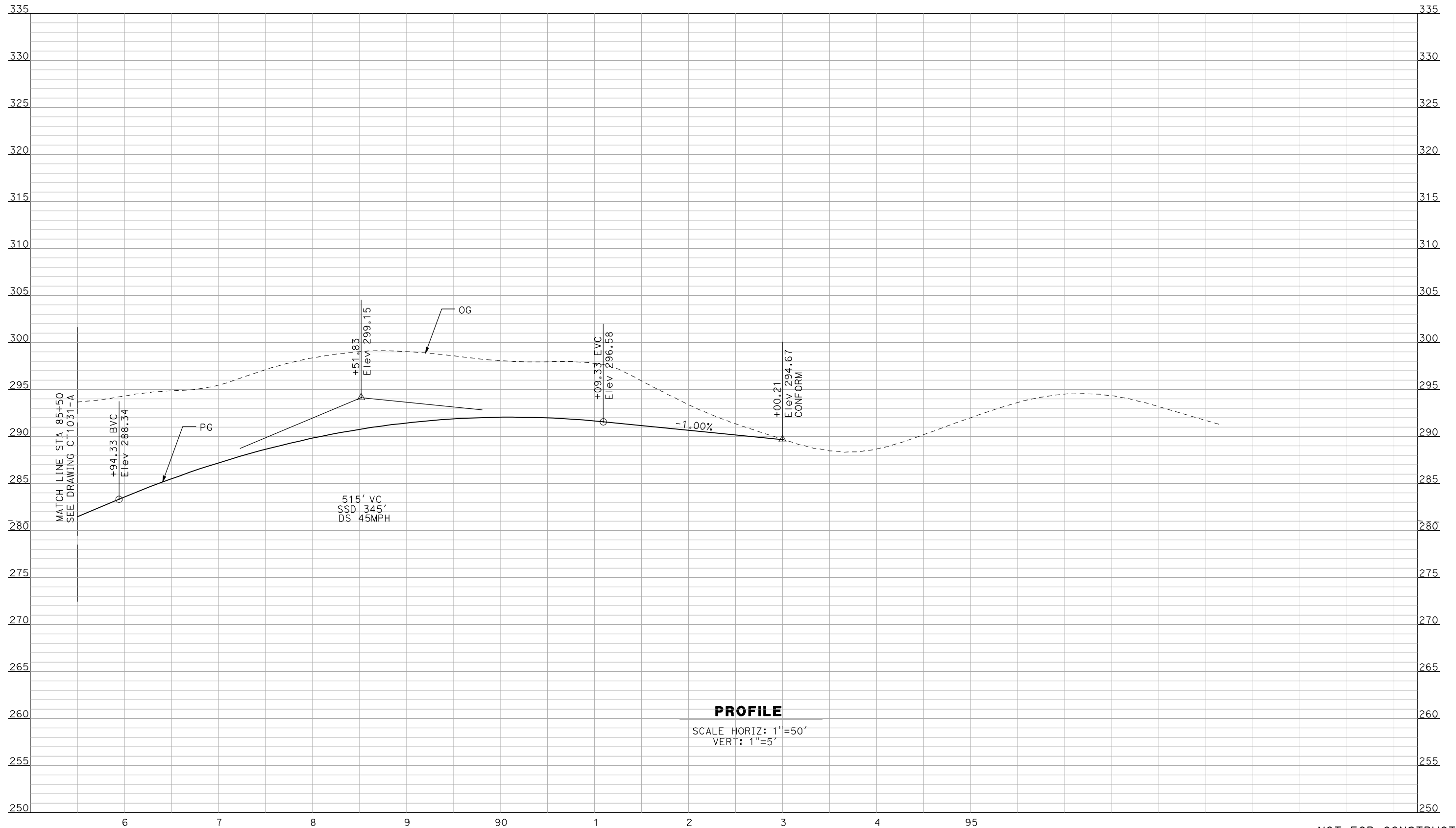
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 UNDERPASS - ROAD 26
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1031-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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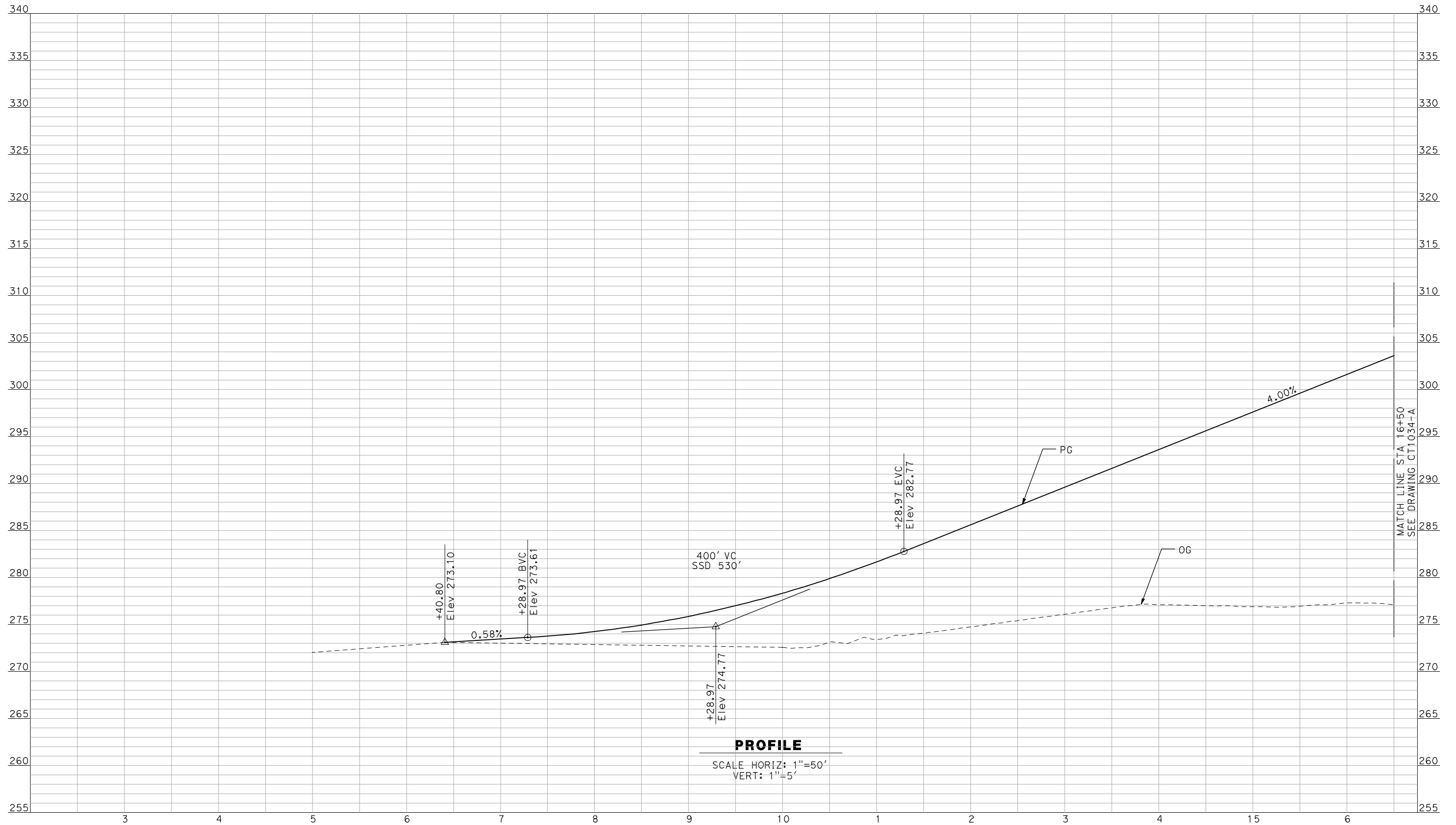
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 UNDERPASS - ROAD 26
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
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 DRAWING NO.
 CT1032-A
 SCALE
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MATCH LINE STA 16+50
 SEE DRAWING CT1034-A

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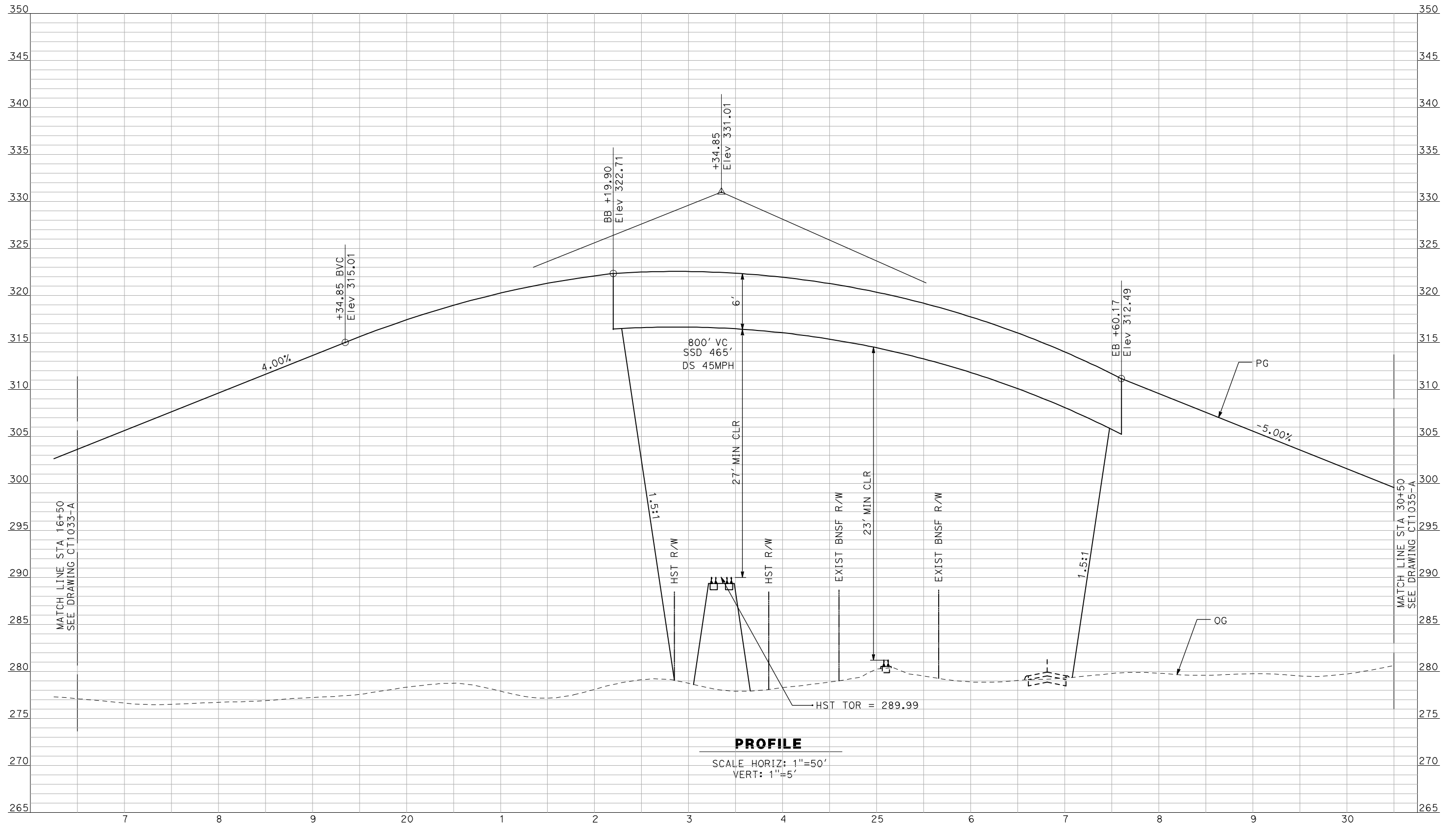
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 21
PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1033-A
 SCALE
 AS SHOWN
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PROFILE
SCALE HORIZ: 1"=50'
SCALE VERT: 1"=5'

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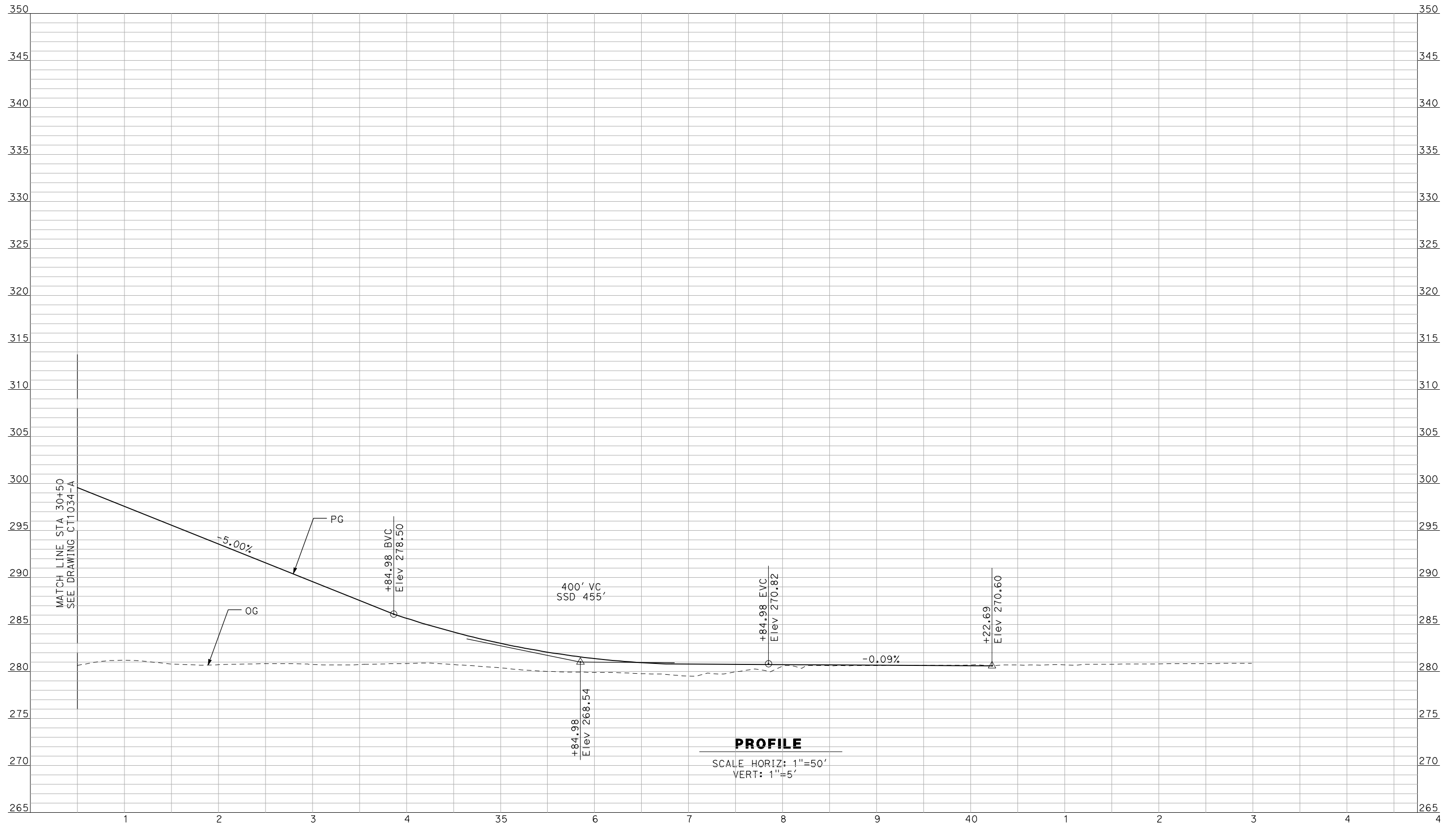
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 21
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1034-A
SCALE
AS SHOWN
SHEET NO.
OF

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 GibsonR1



PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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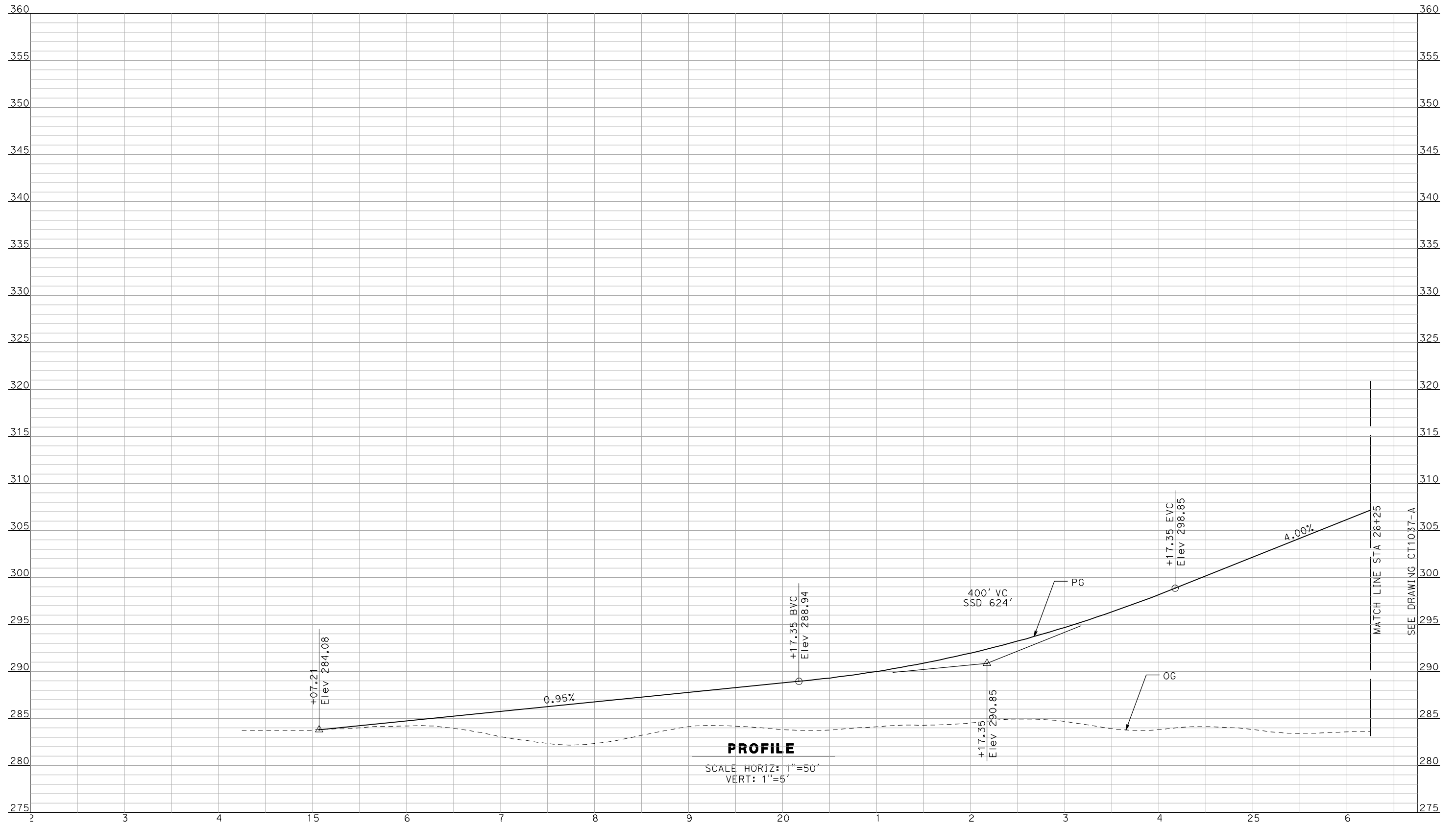
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 21
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1035-A
 SCALE
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 SHEET NO.
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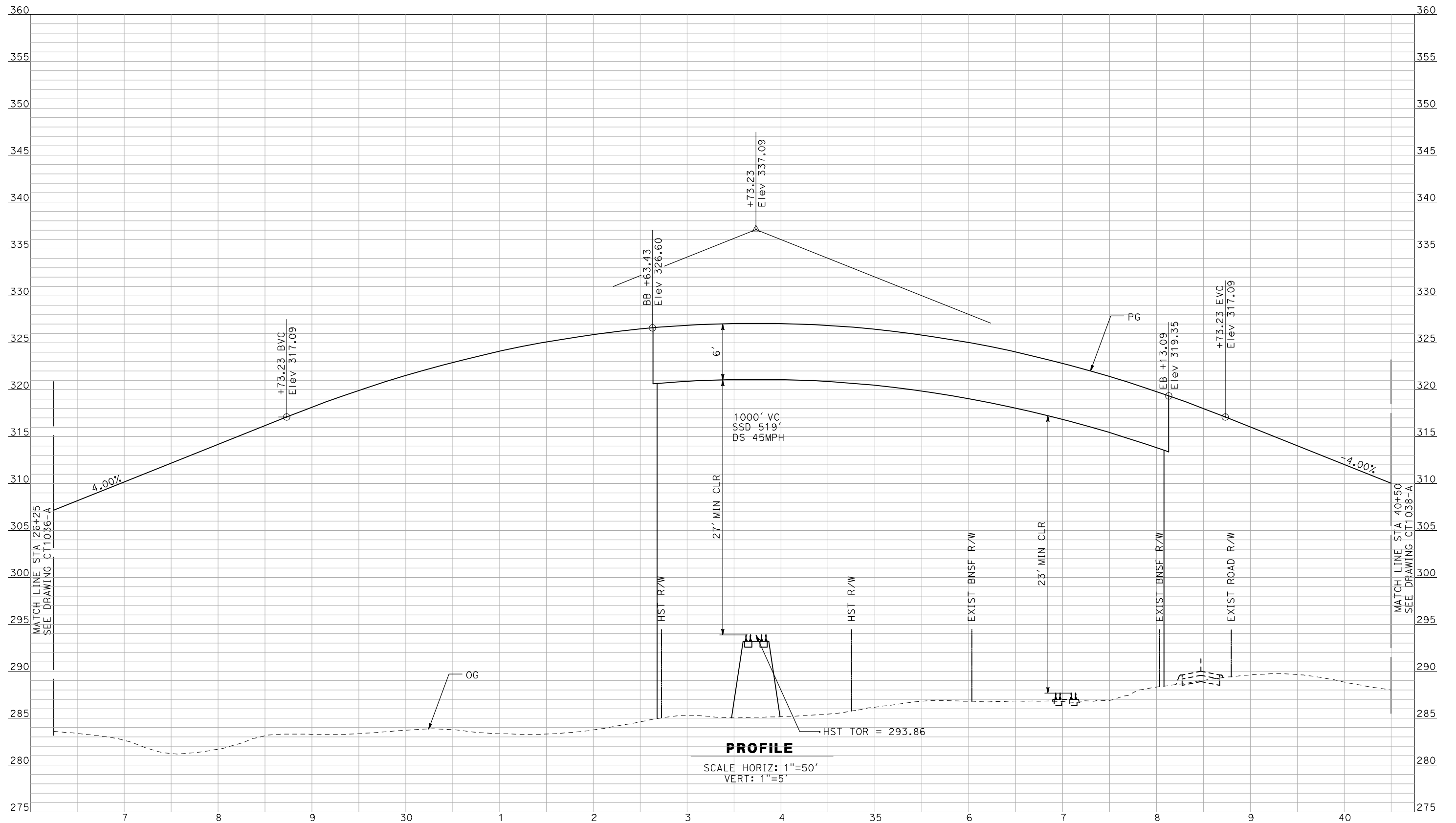
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 24
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
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 DRAWING NO.
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 SCALE
AS SHOWN
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OF

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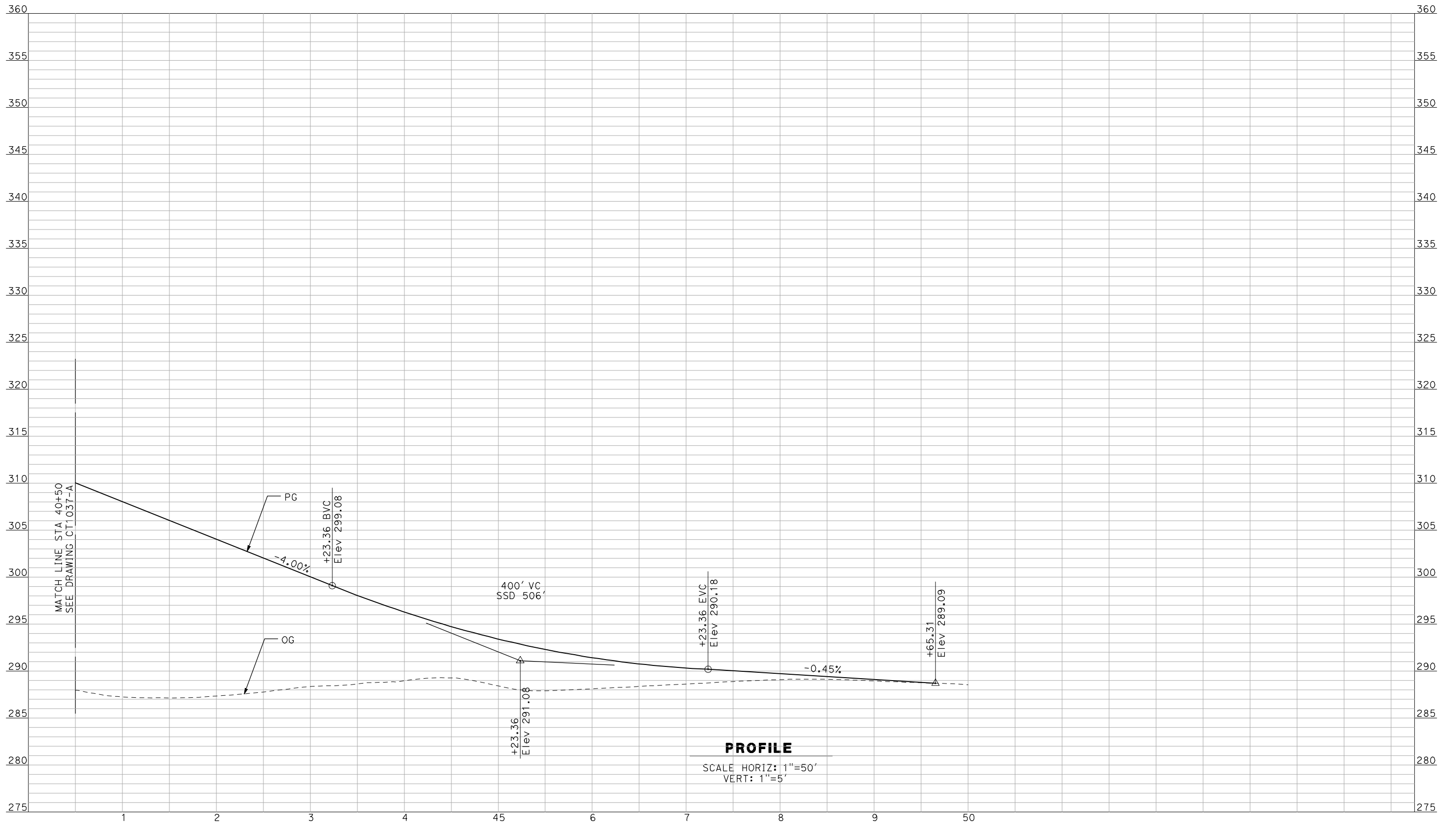
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 24
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1037-A
 SCALE
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 SHEET NO.
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 GibsonR1



PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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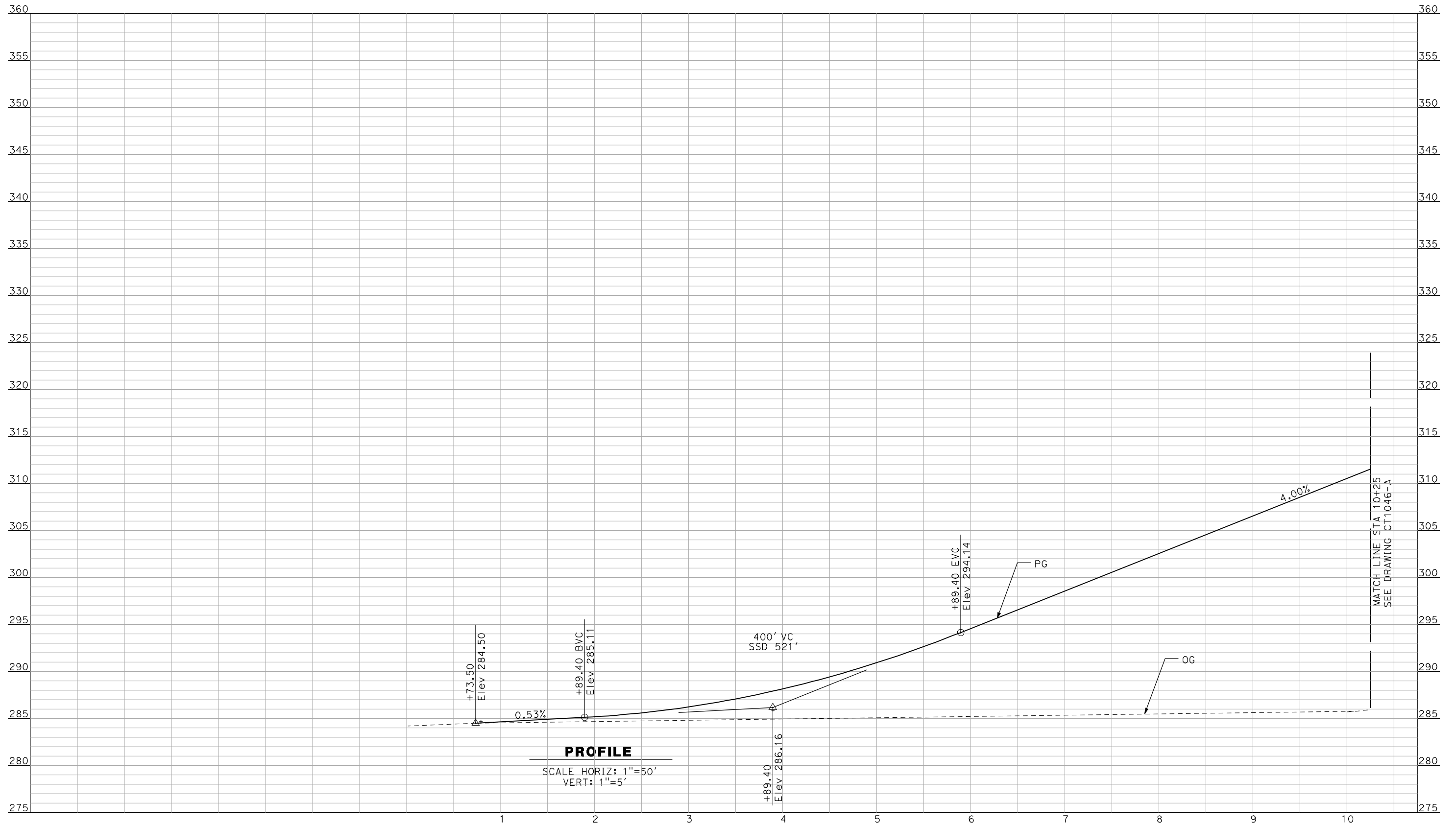
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 24
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1038-A
 SCALE
 AS SHOWN
 SHEET NO.
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J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

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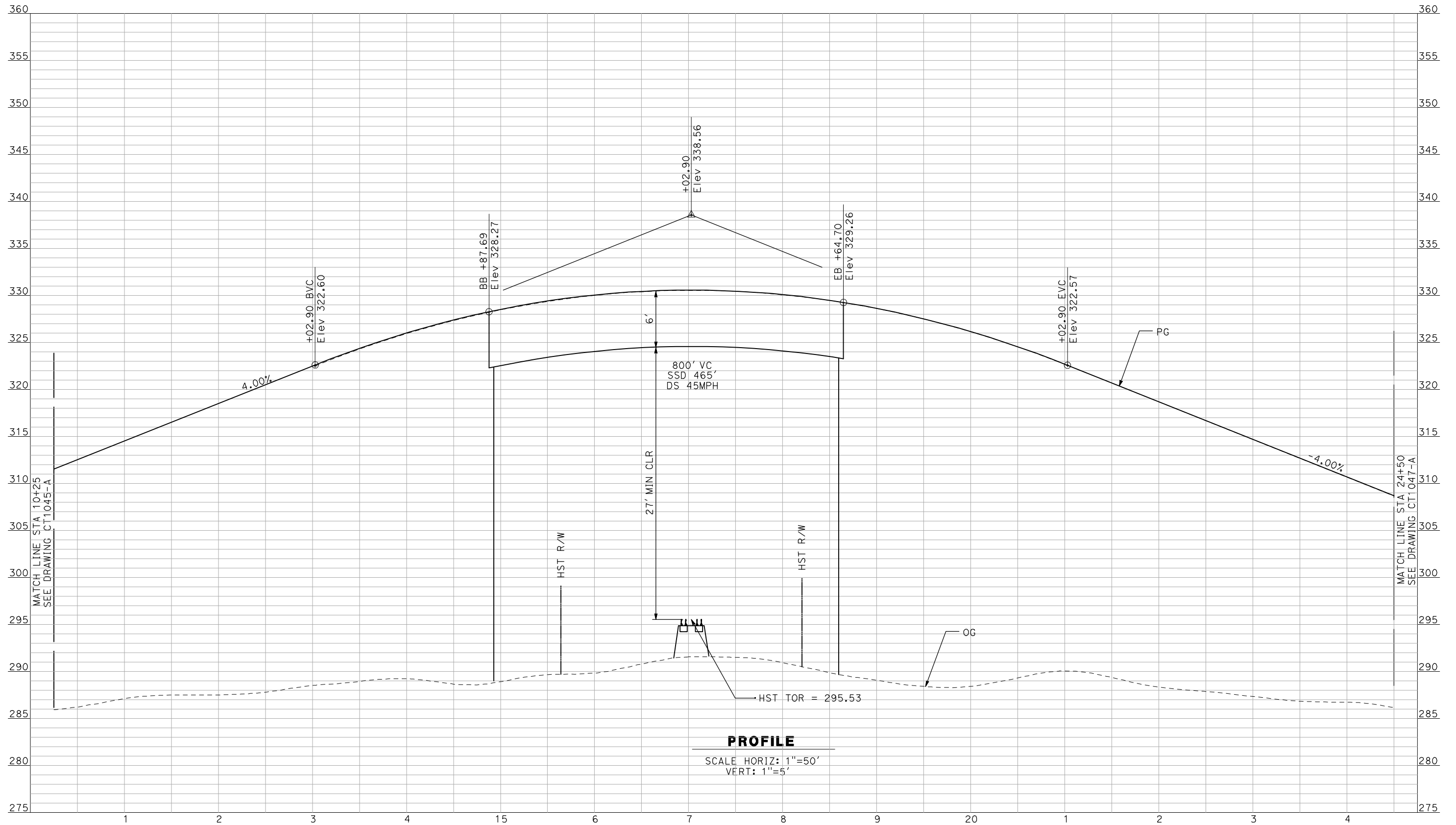
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - SANTA FE DR
PROFILE
 SHEET 1 OF 3

CONTRACT NO.
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 DRAWING NO.
CT1045-A
 SCALE
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 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
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 A. BOONE
 DATE
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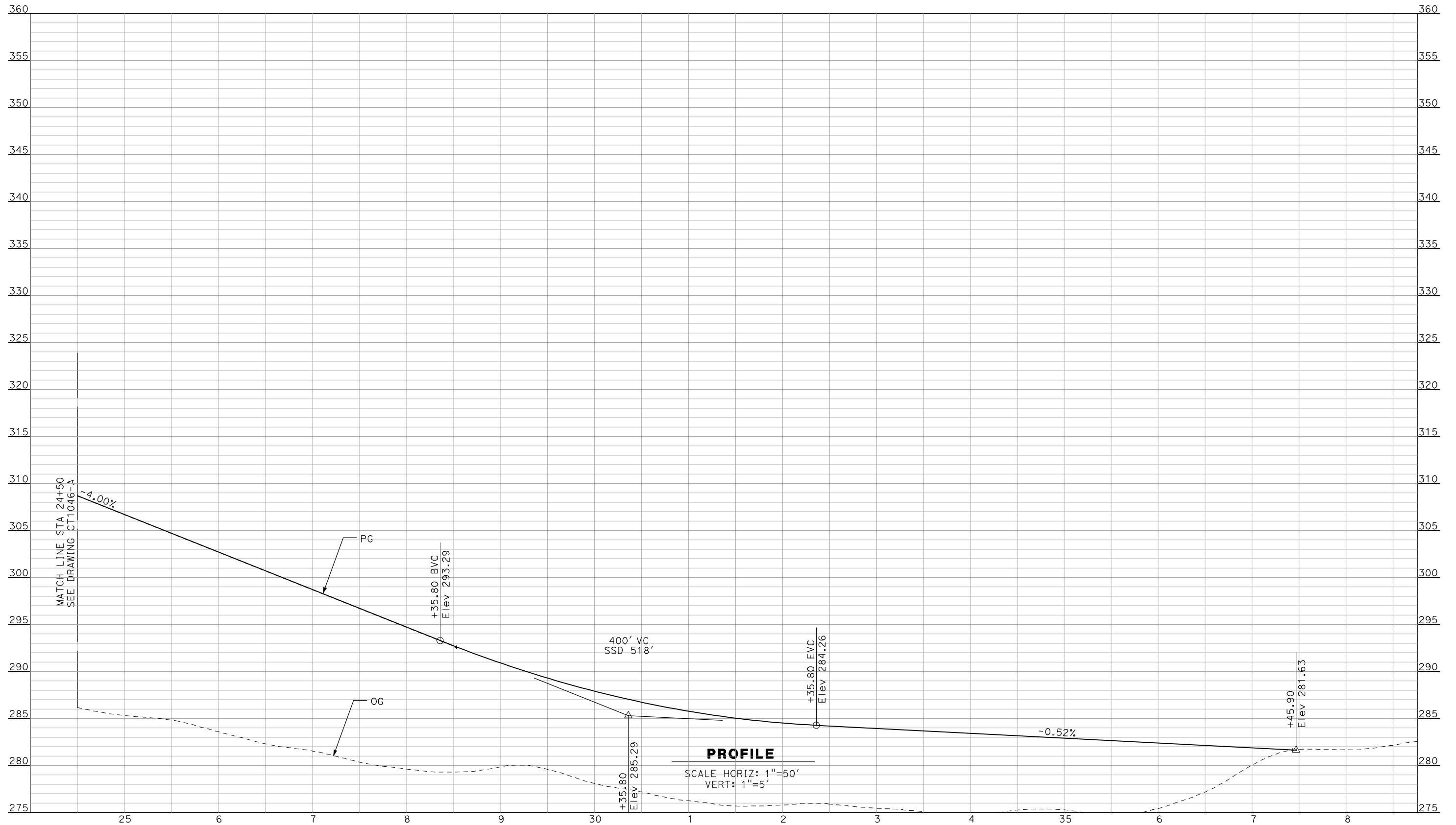
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - SANTA FE DR
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
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 Technical Services, Inc.
 2020 L Street, Suite 300
 Sacramento, CA 95811

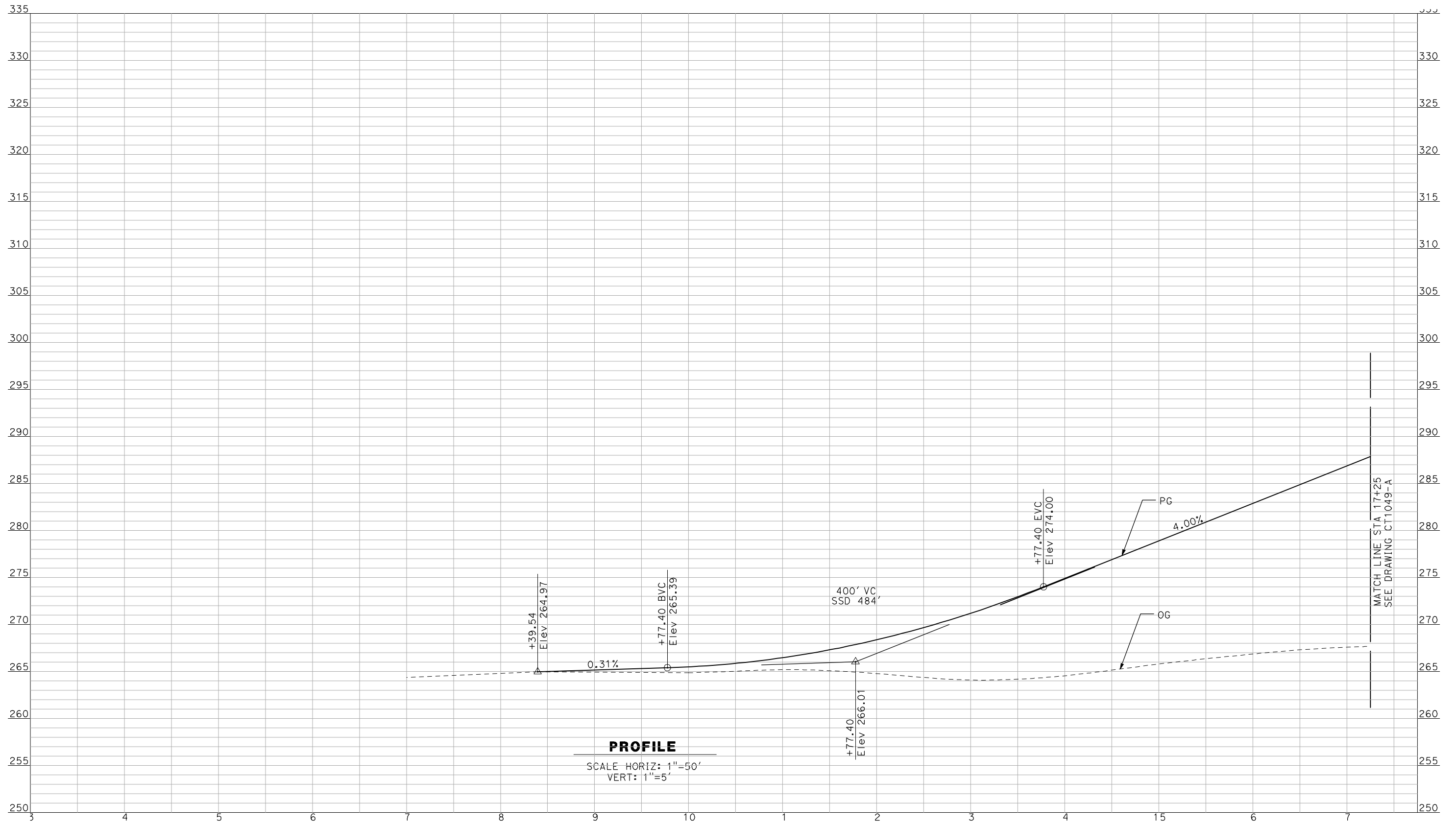


CALIFORNIA
 HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - SANTA FE DR
PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
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CT1047-A
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 F. DEMARCO
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 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
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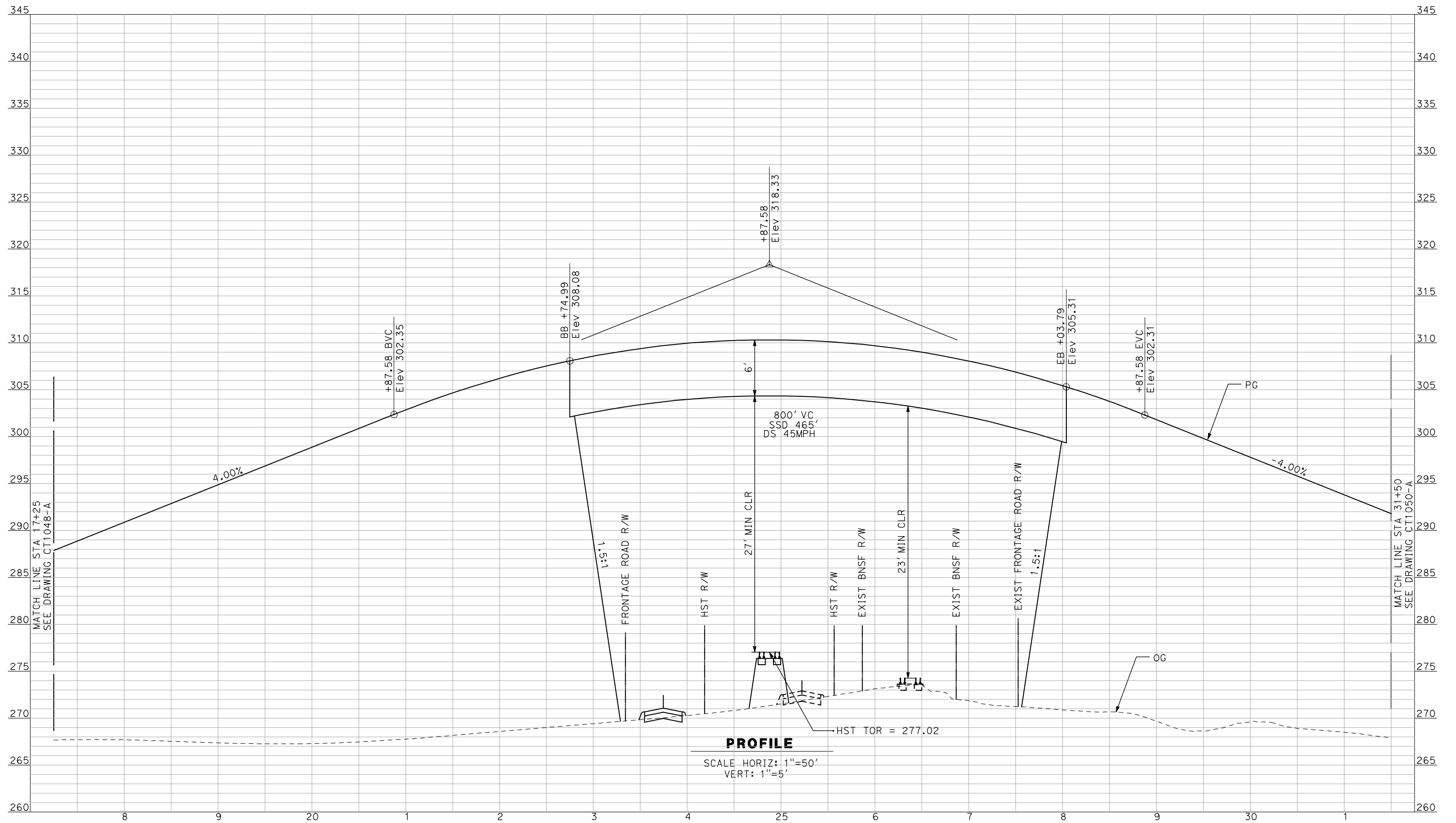
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - BUCHANAN HALLOW RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1048-A
 SCALE
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J. ZANDIAN
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A. BOONE
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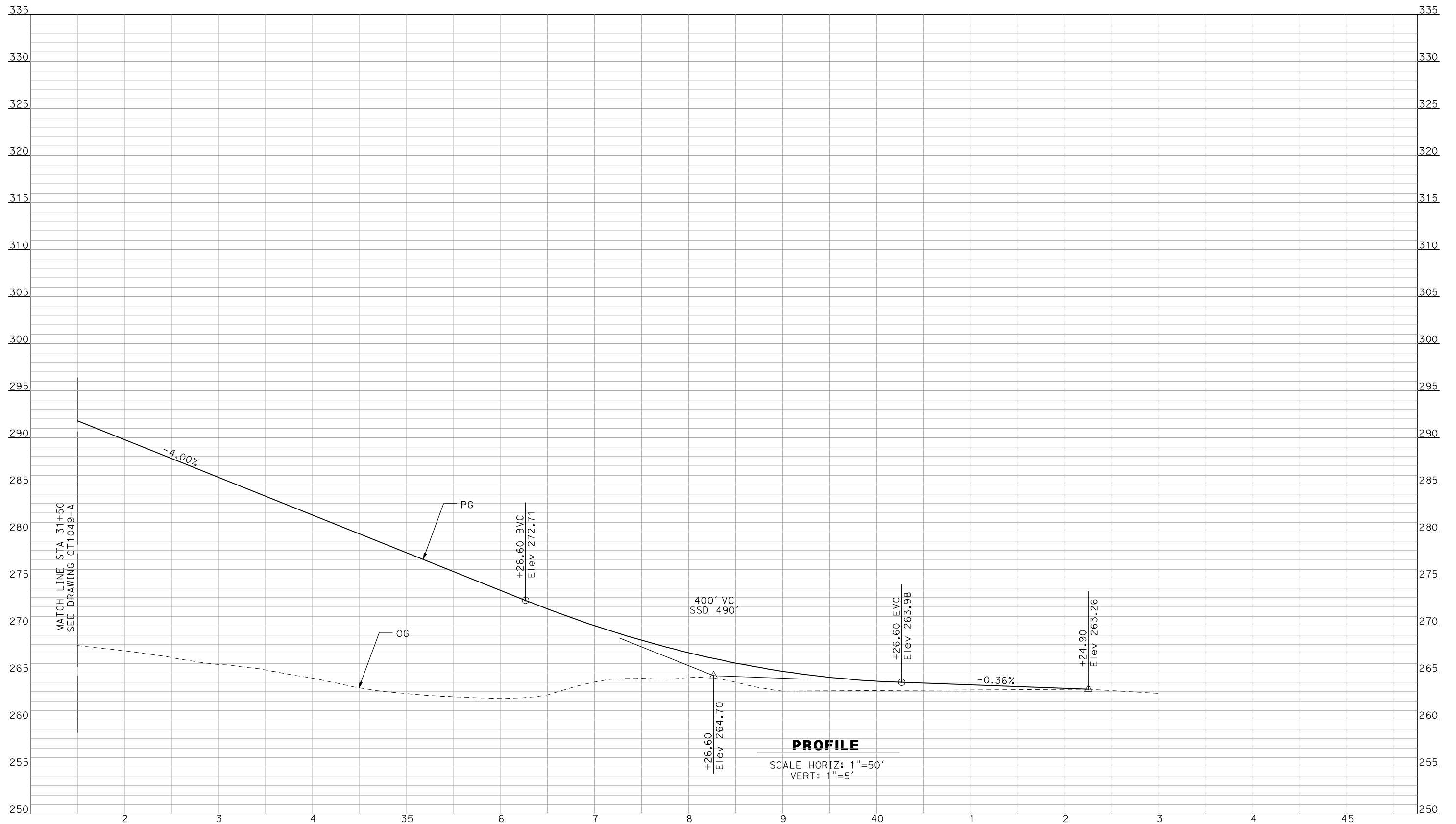
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - BUCHANAN HALLOW RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1049-A
 SCALE
AS SHOWN
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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J. ZANDIAN
IN CHARGE
A. BOONE
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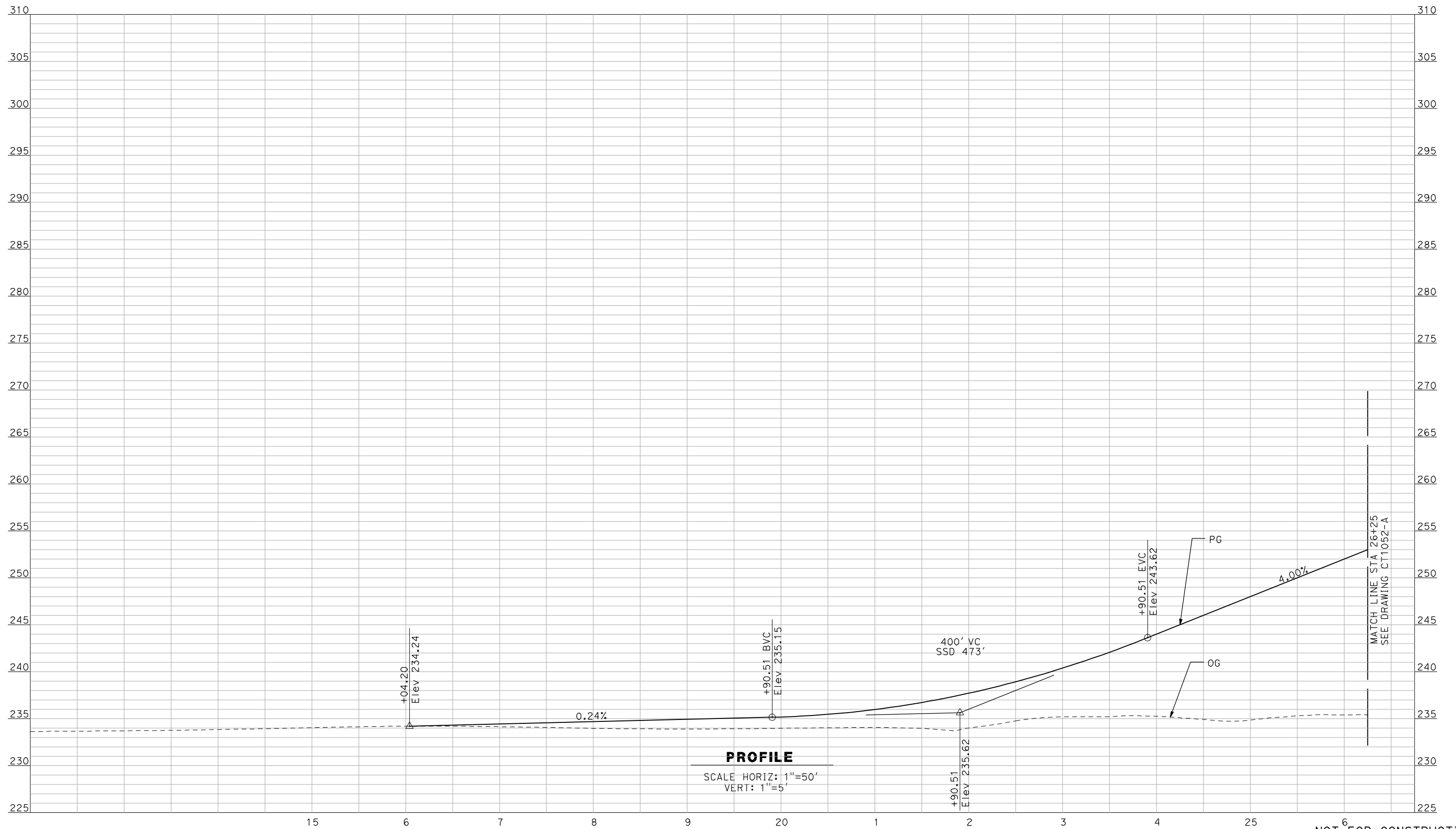


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - BUCHANAN HALLOW RD
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1050-A
SCALE
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SHEET NO.
OF

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J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
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RECORD SET
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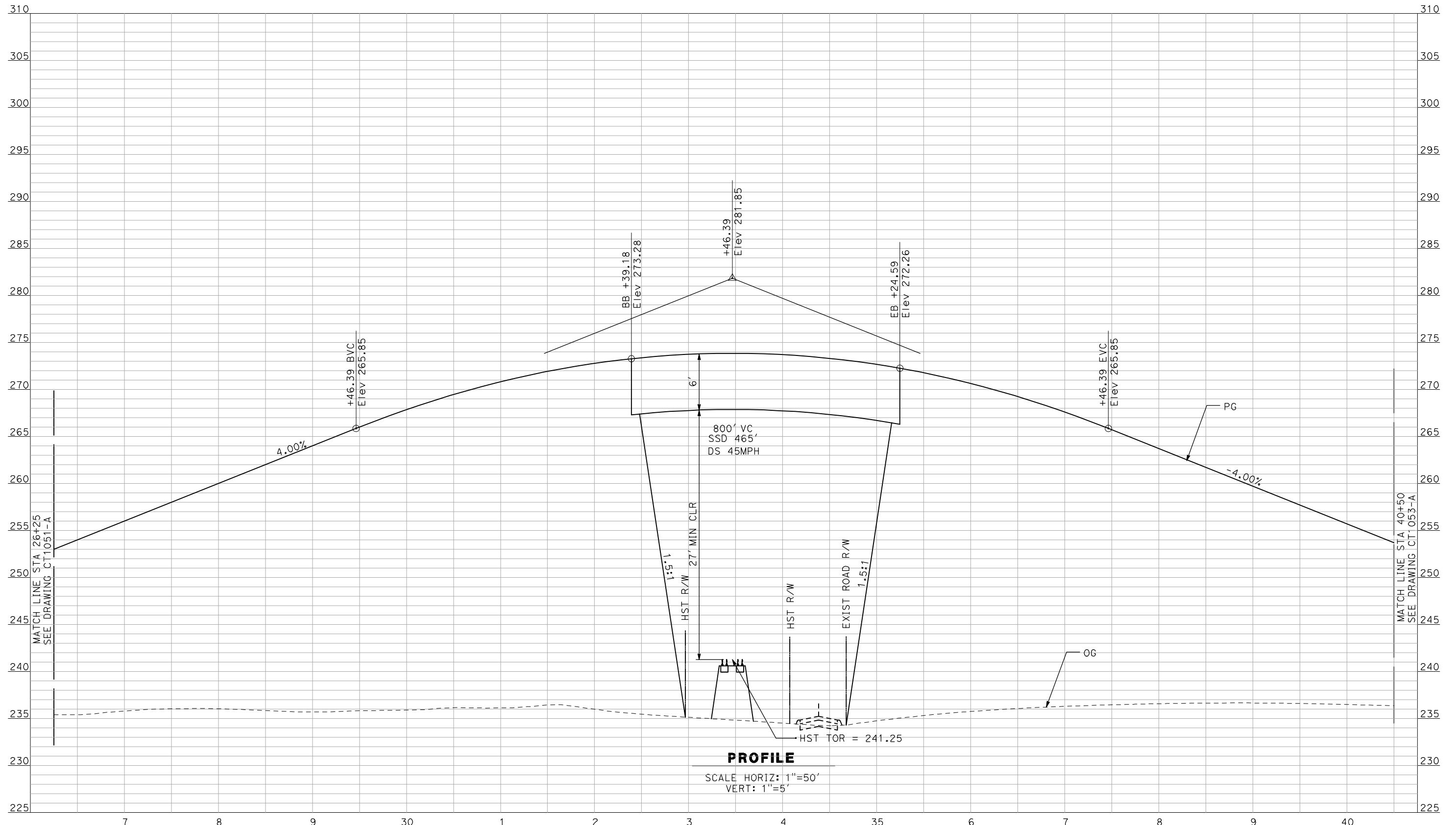
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1051-A
 SCALE
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OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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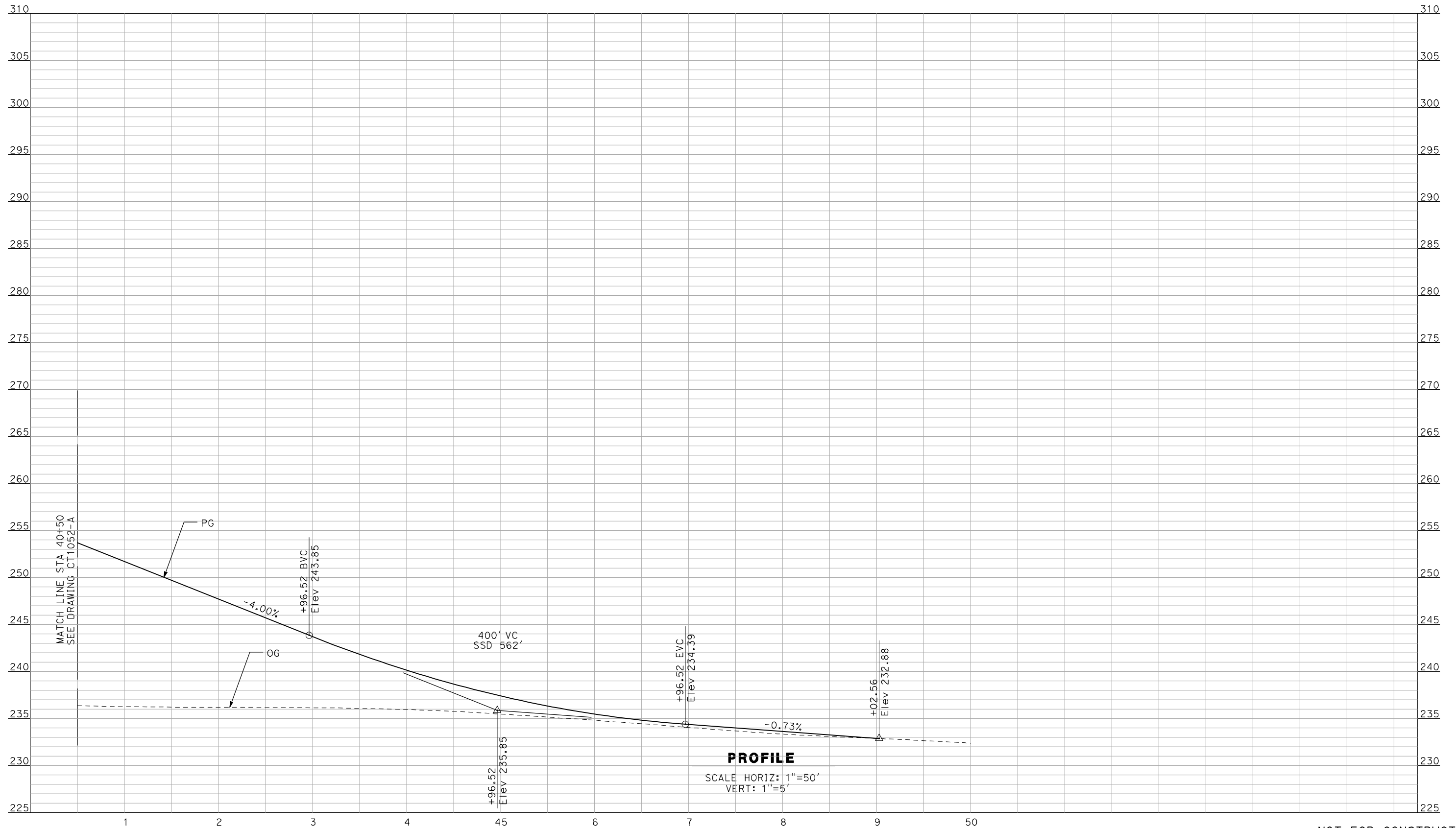
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1052-A
 SCALE
 AS SHOWN
 SHEET NO.
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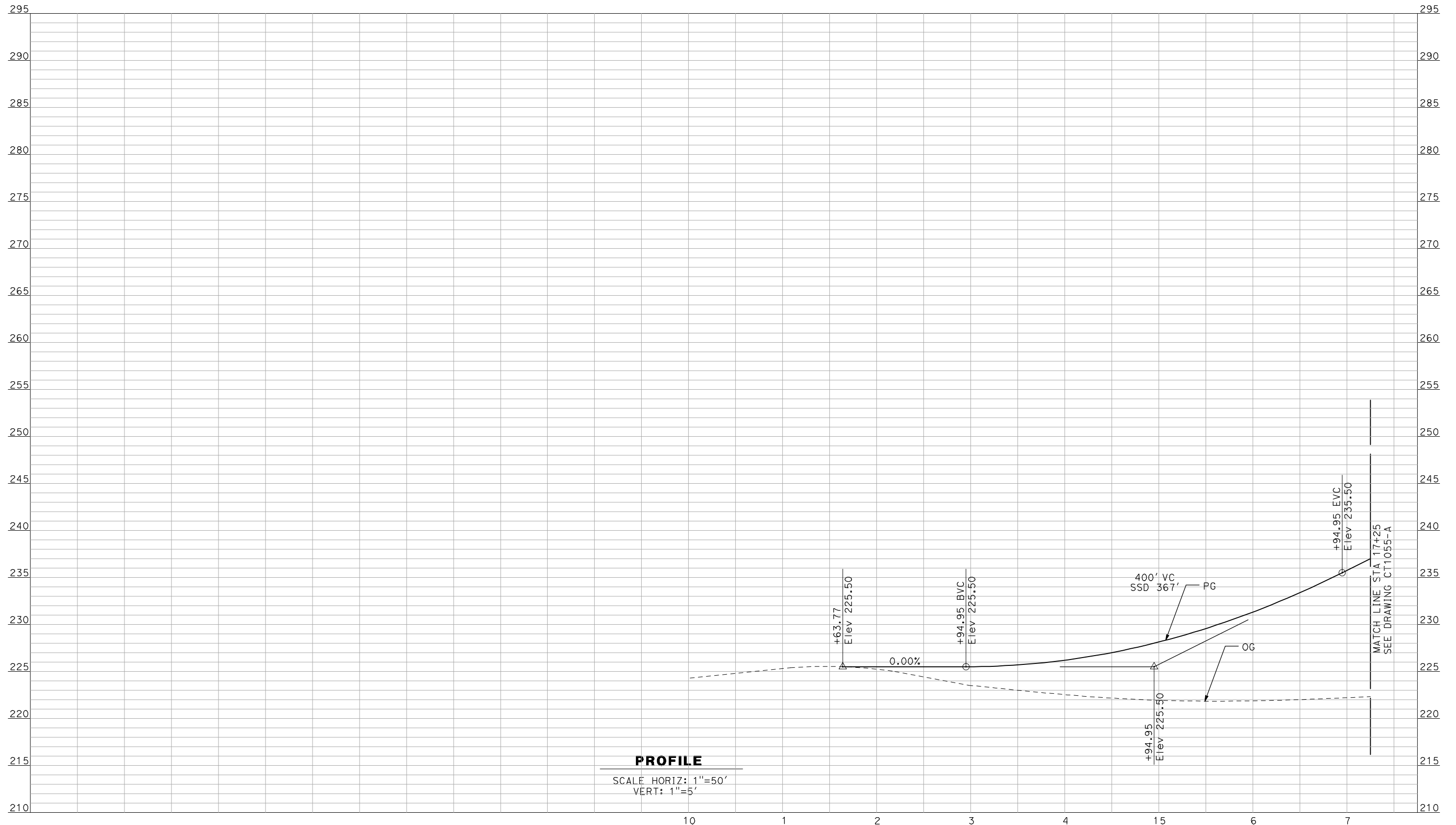
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL RD
PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1053-A
 SCALE
AS SHOWN
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OF

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A. BOONE
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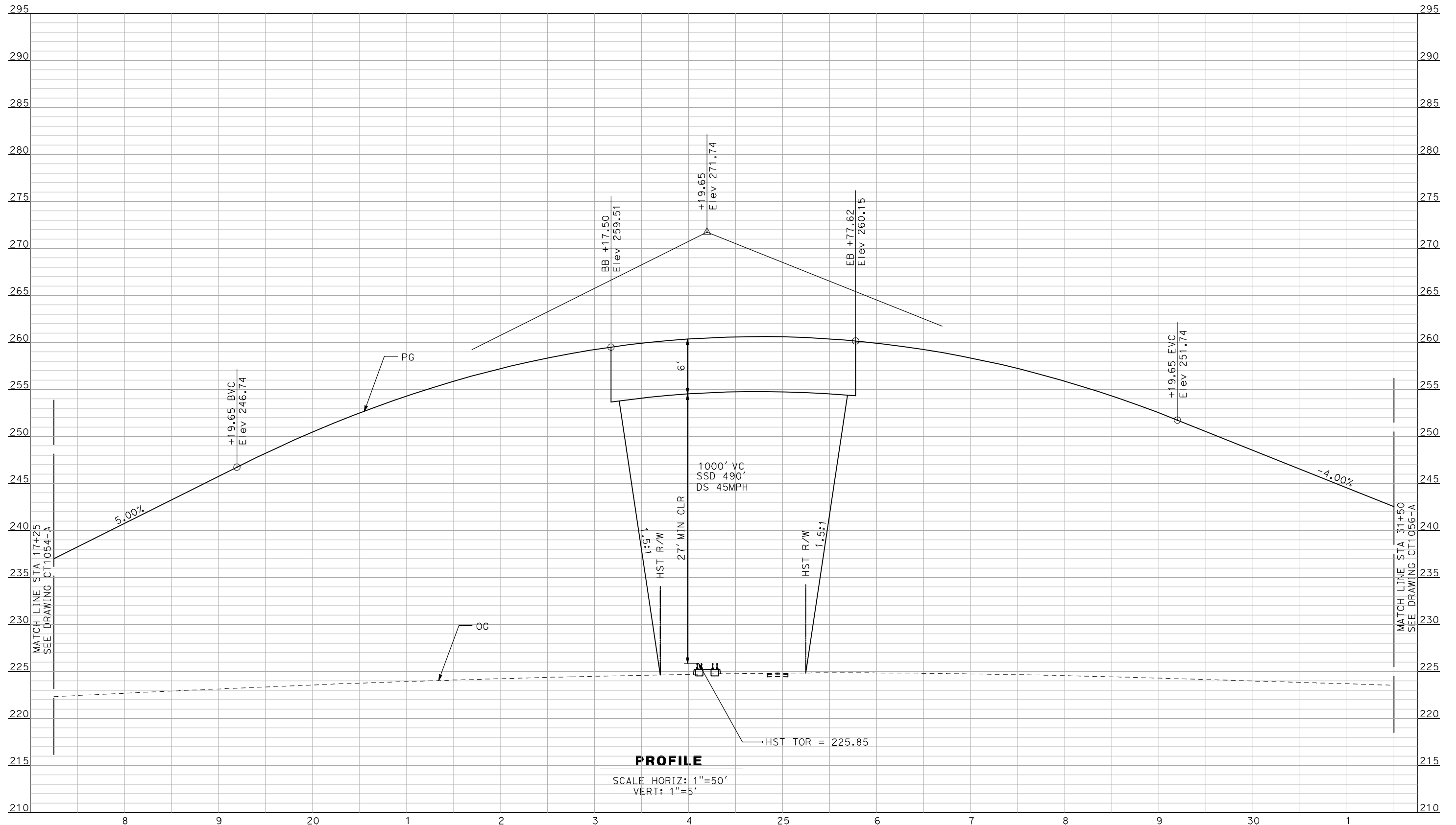
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - PLAINSBURG RD
PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1054-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - PLAINSBUR. GIBSON RD
 PROFILE
 SHEET 2 OF 3

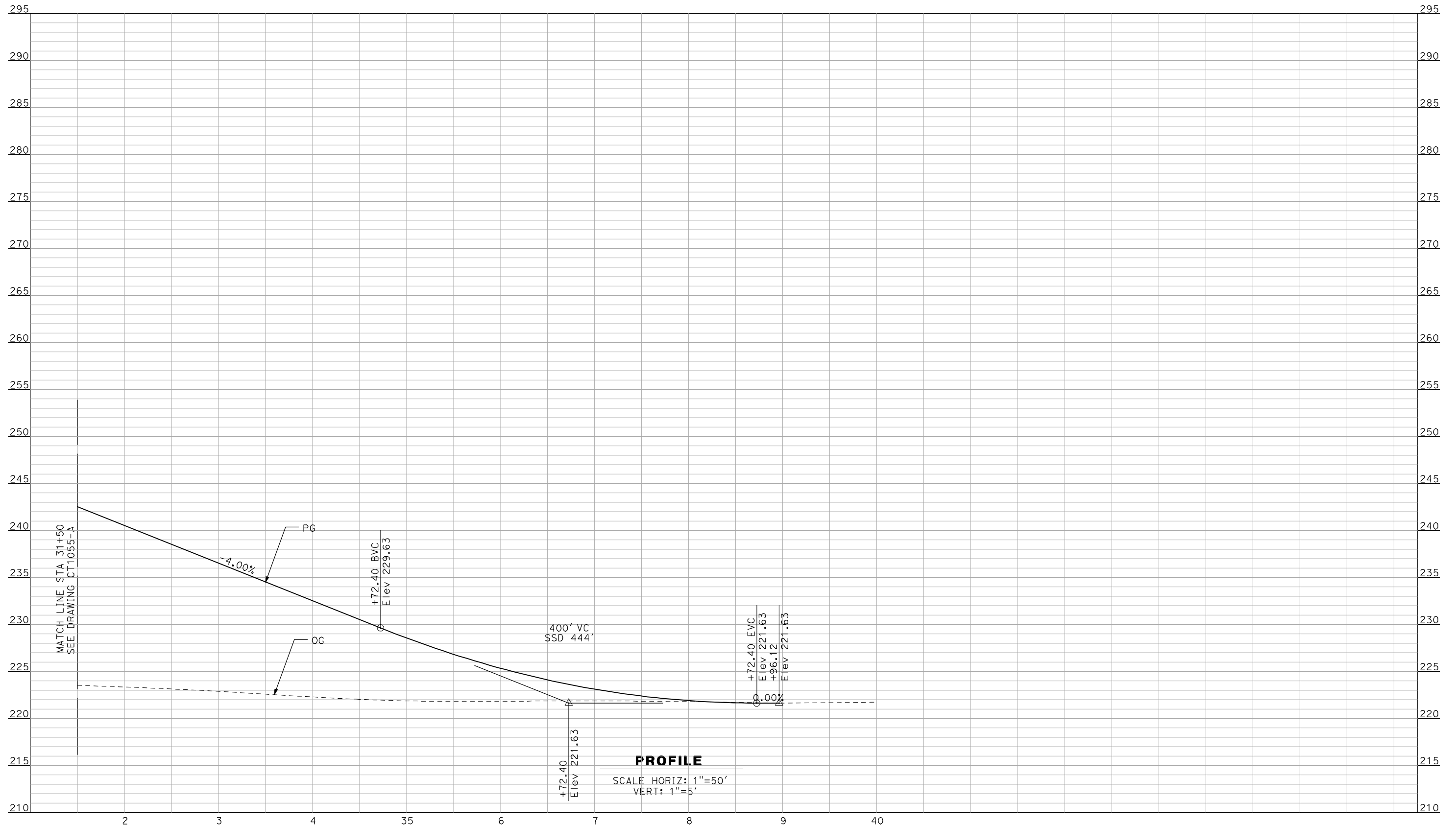
CONTRACT NO.
 HSR06-007

DRAWING NO.
 CT1055-A

SCALE
 AS SHOWN

SHEET NO.
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J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
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RECORD SET
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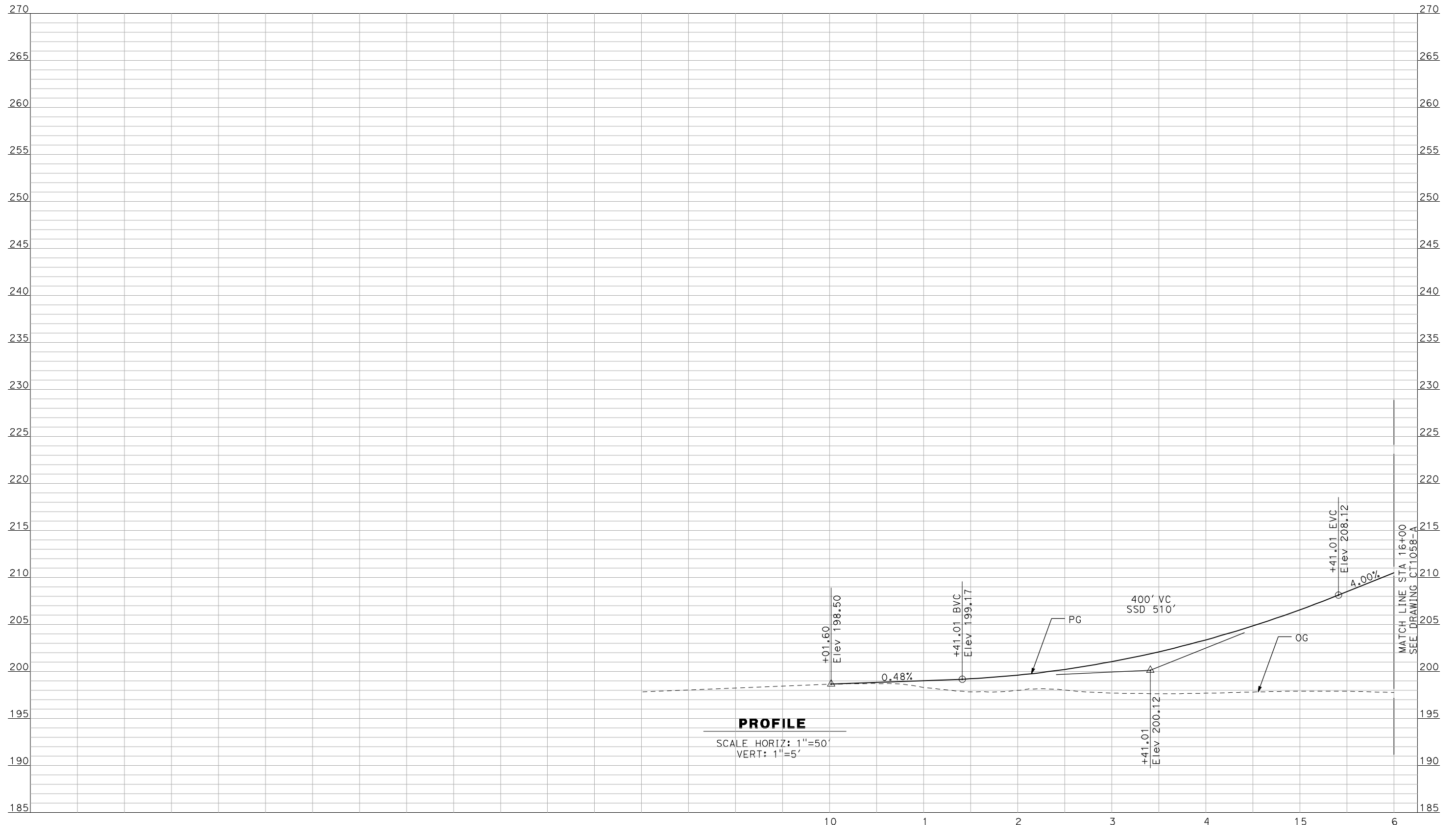
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - PLAINSBUR. GIBSON RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT1056-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

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A. BOONE
 DATE
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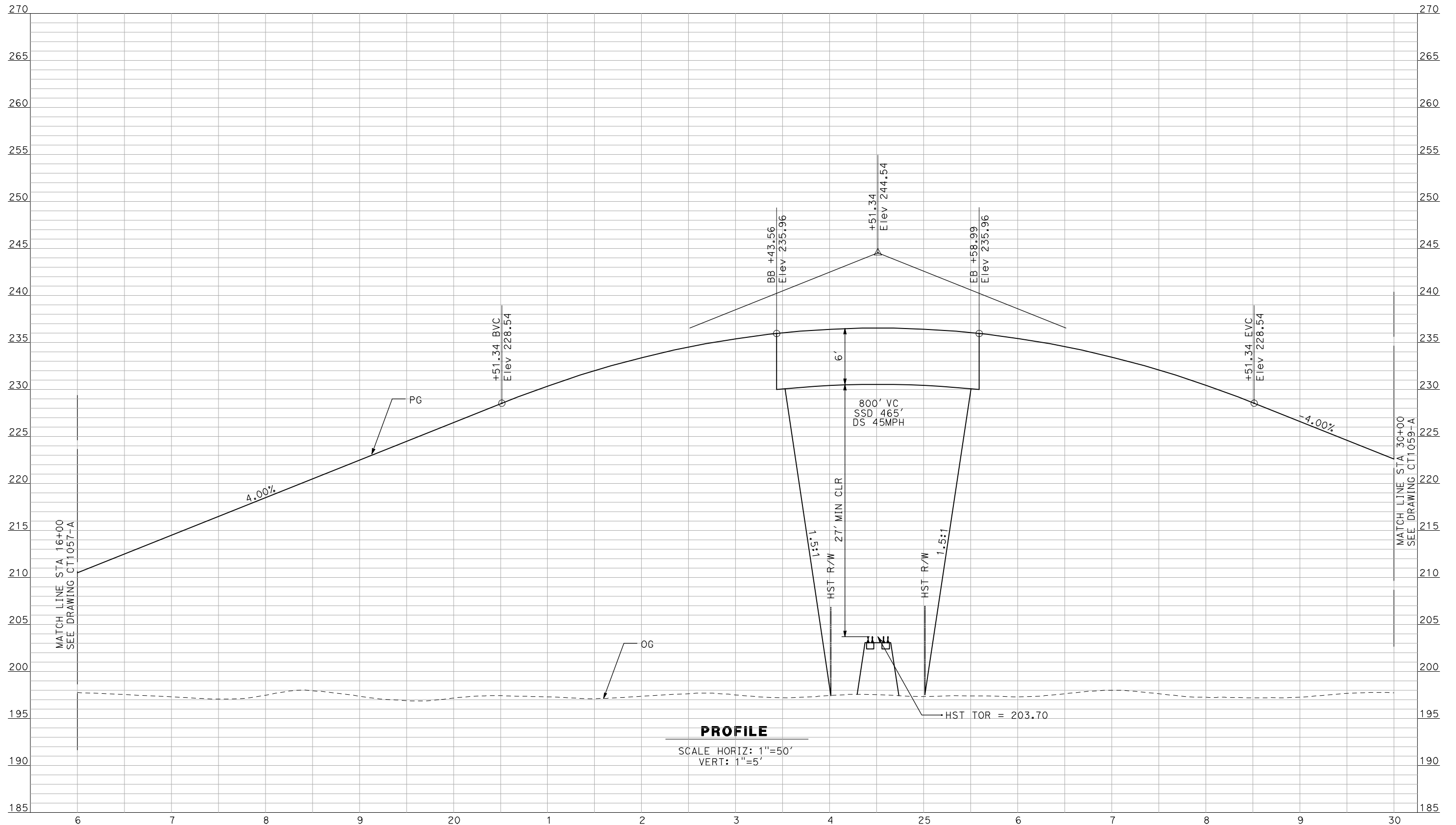
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - ARBOLEDA DR
 PROFILE
 SHEET OF 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1057-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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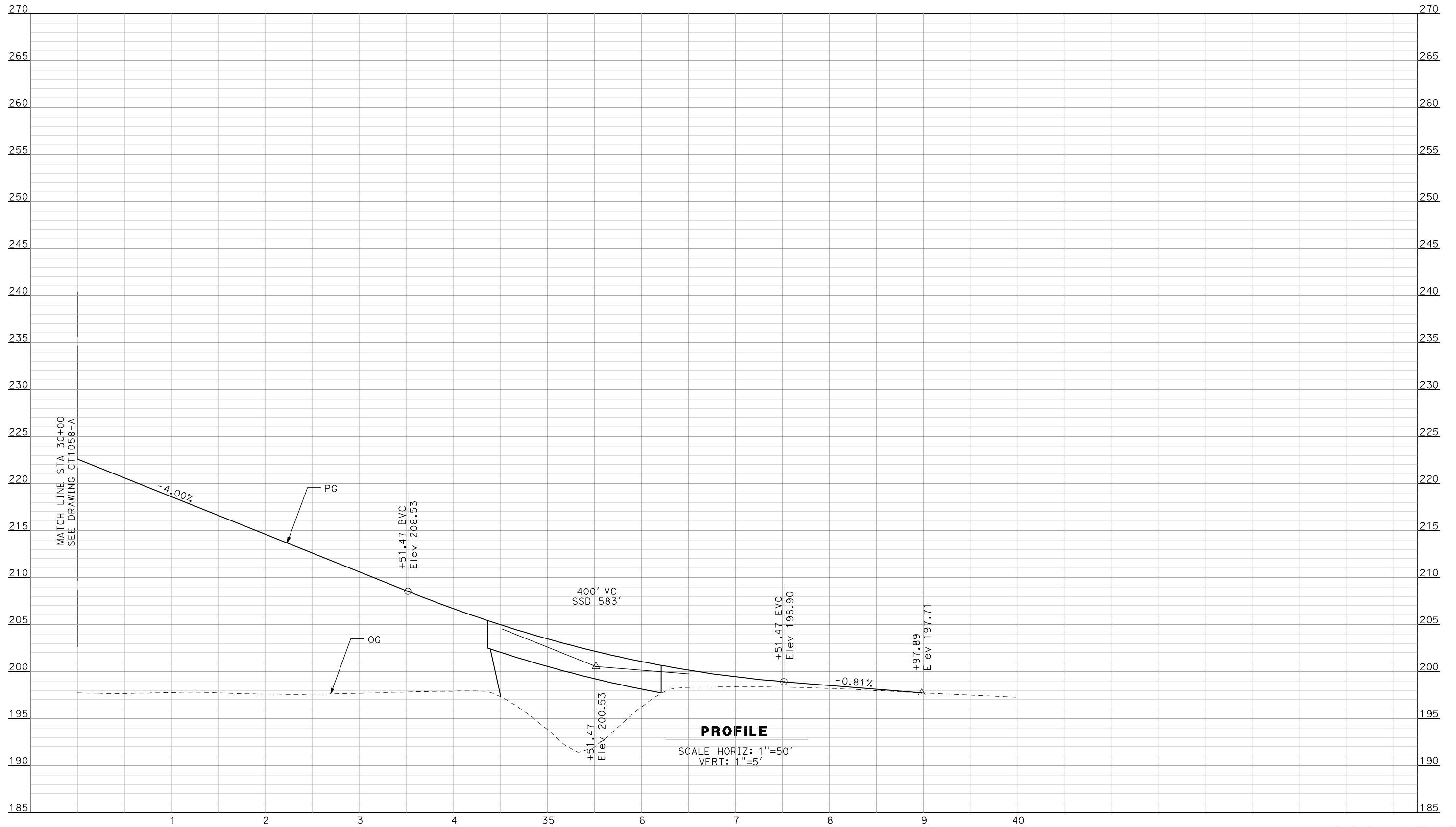
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - ARBOLEDA DR
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1058-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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A. BOONE
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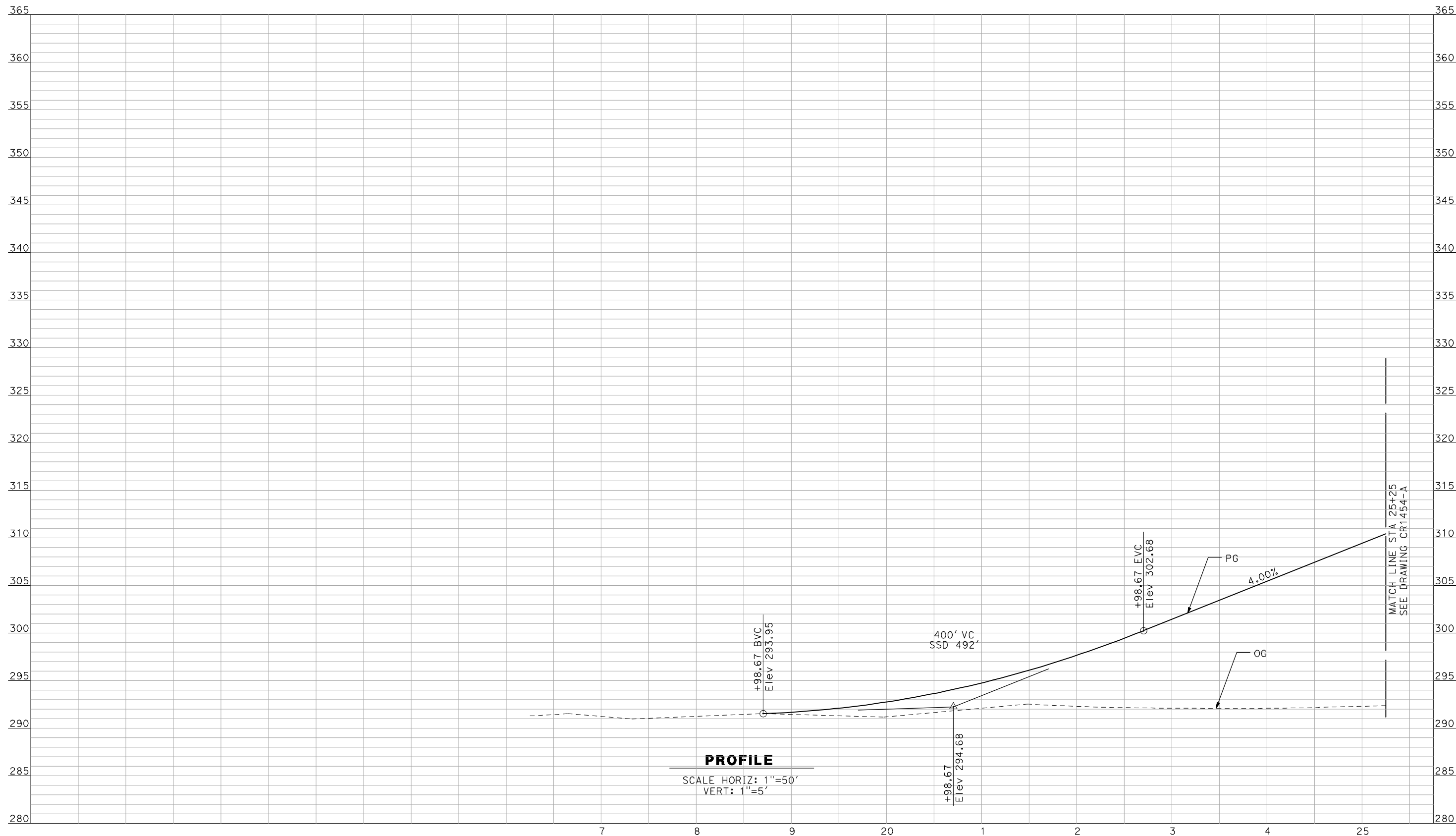
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - ARBOLEDA DR
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1059-A
 SCALE
AS SHOWN
 SHEET NO.
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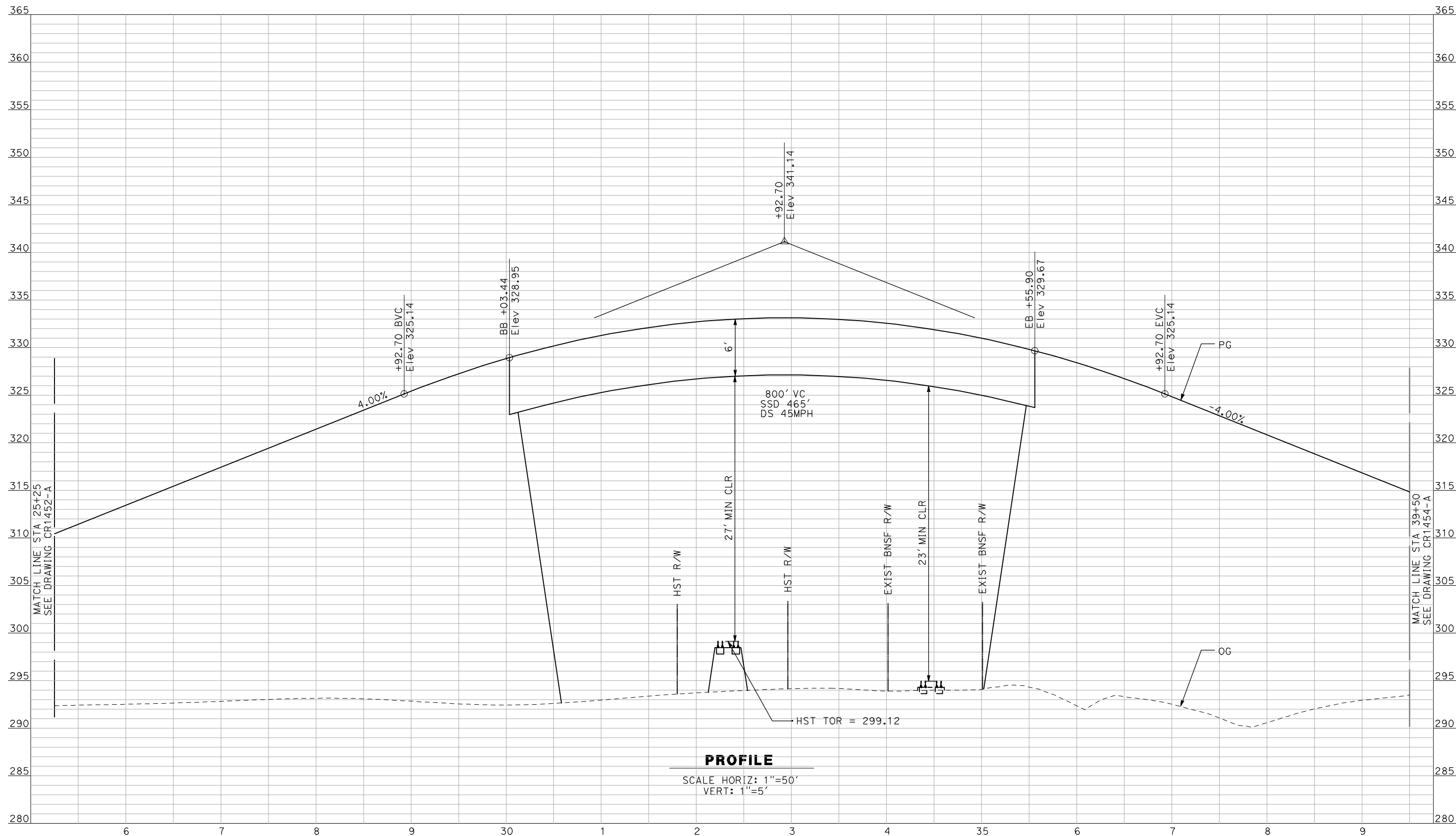


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

A1 MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - AVENUE 24
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1100-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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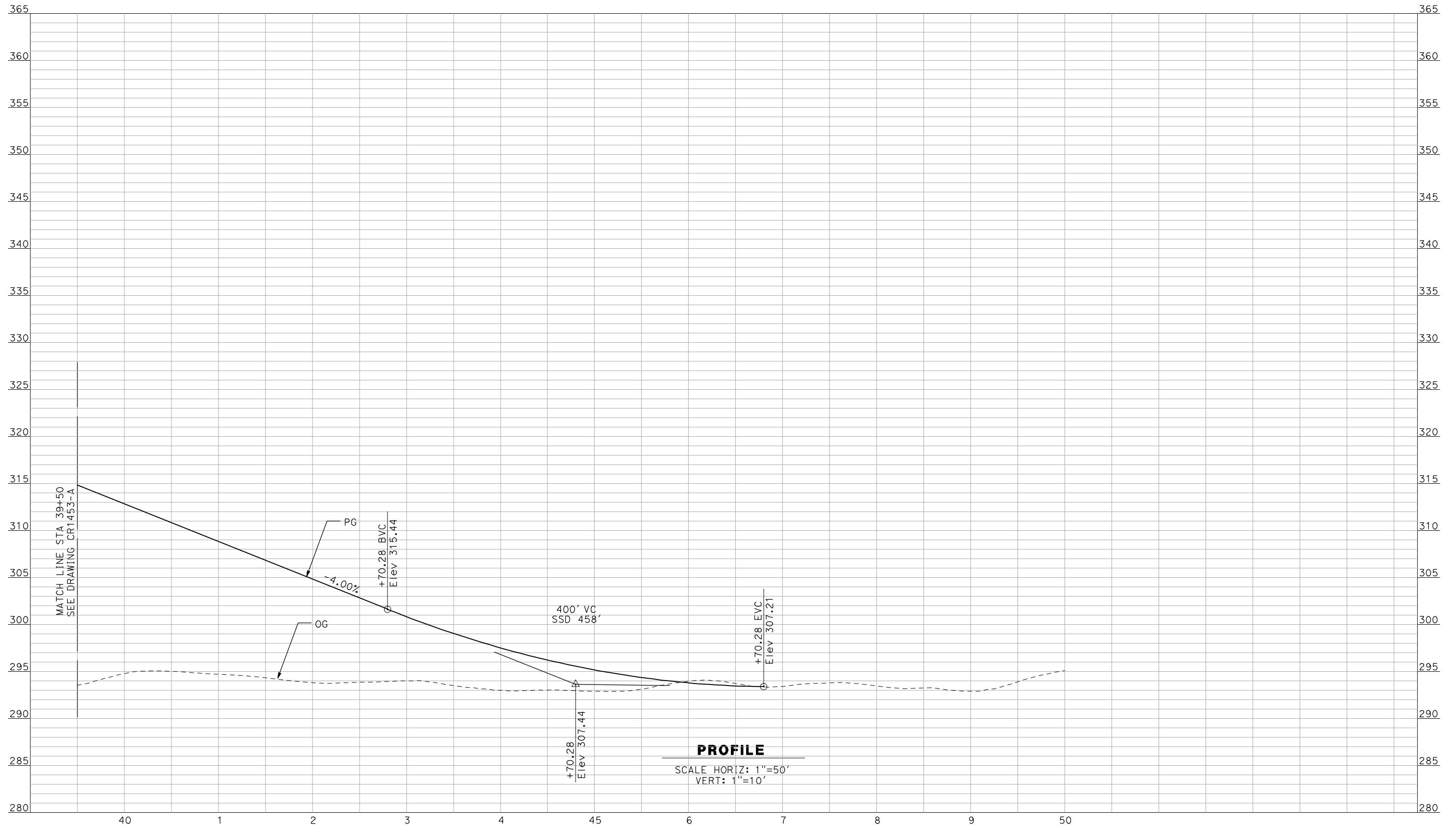


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

A1 MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - AVENUE 24
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CR1101-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=10'

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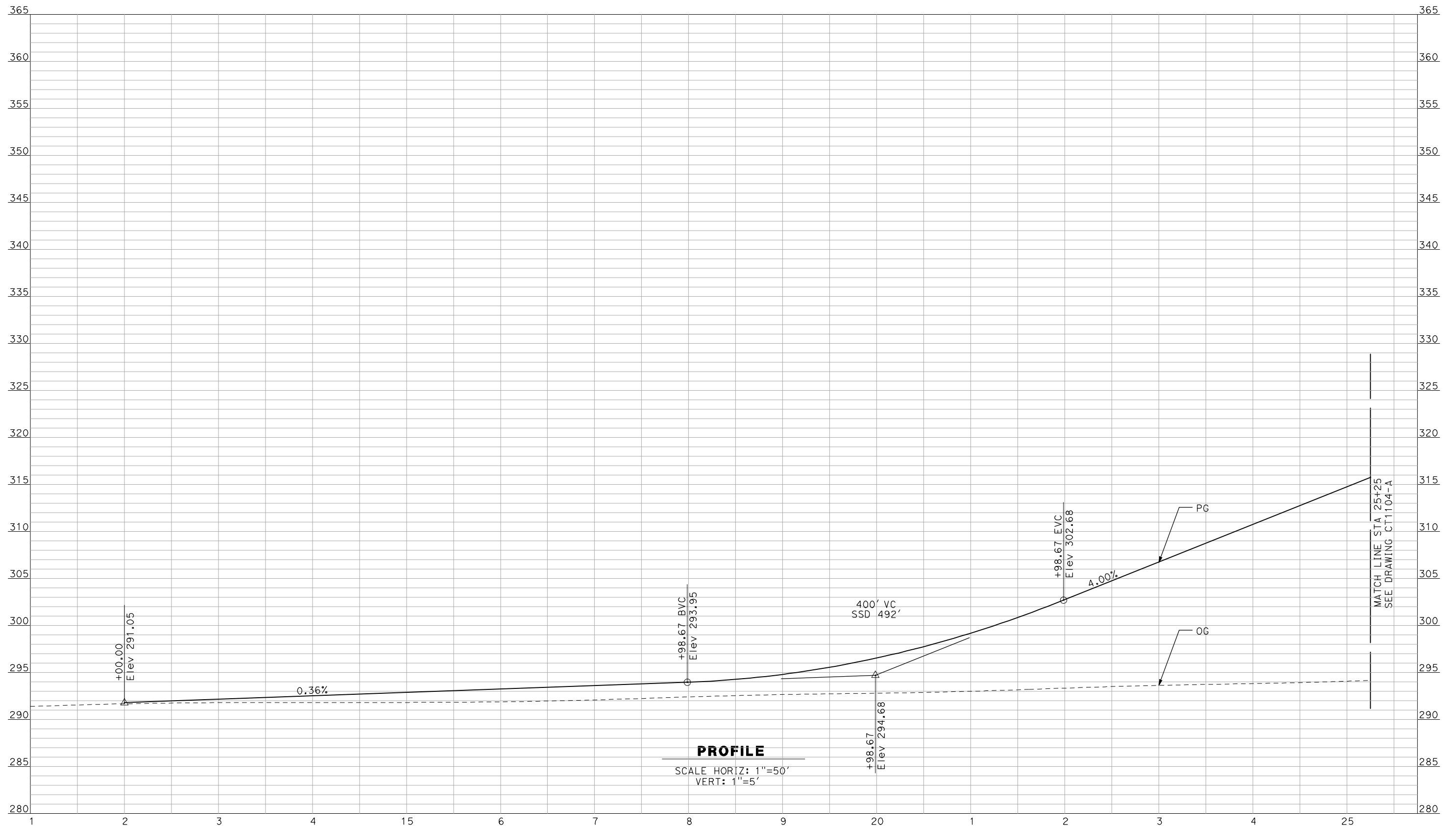


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

A1 MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - AVENUE 24
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CR1102-A
 SCALE
 AS SHOWN
 SHEET NO.
 OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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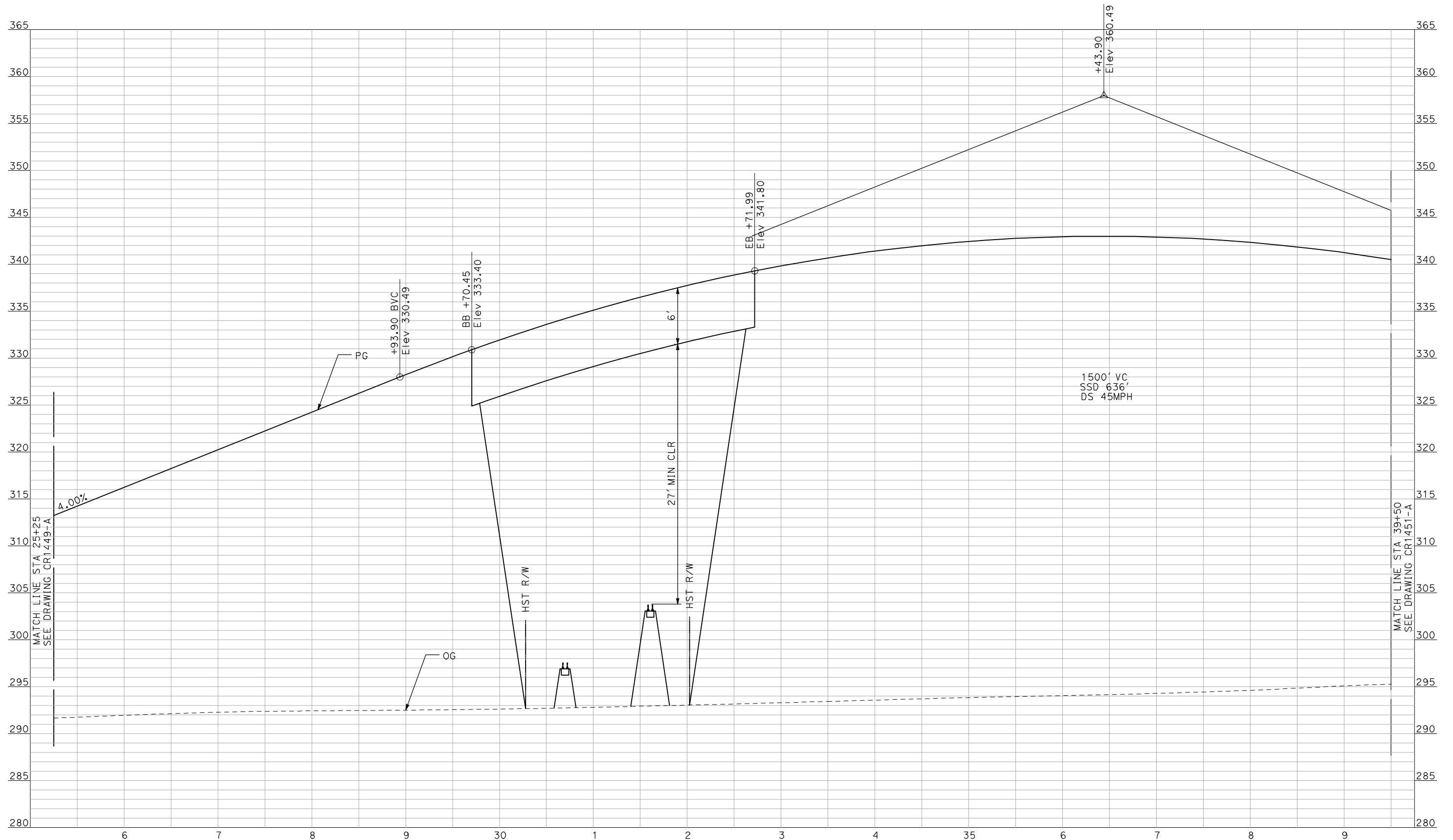


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 26
PROFILE
SHEET 1 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1103-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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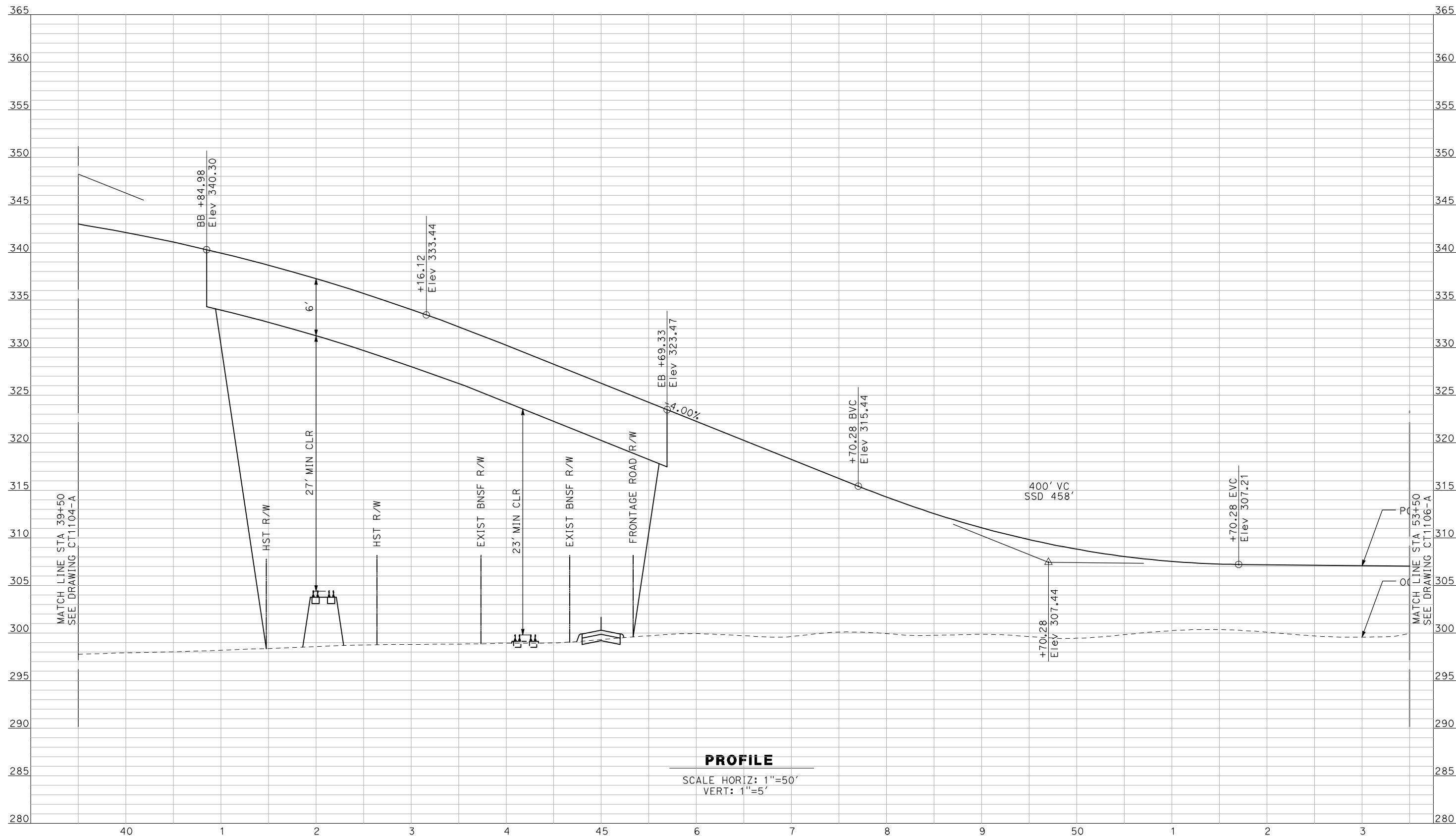
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

CONTRACT NO.
HSR06-007
DRAWING NO.
SCALE
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SHEET NO.
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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A. BOONE
DATE
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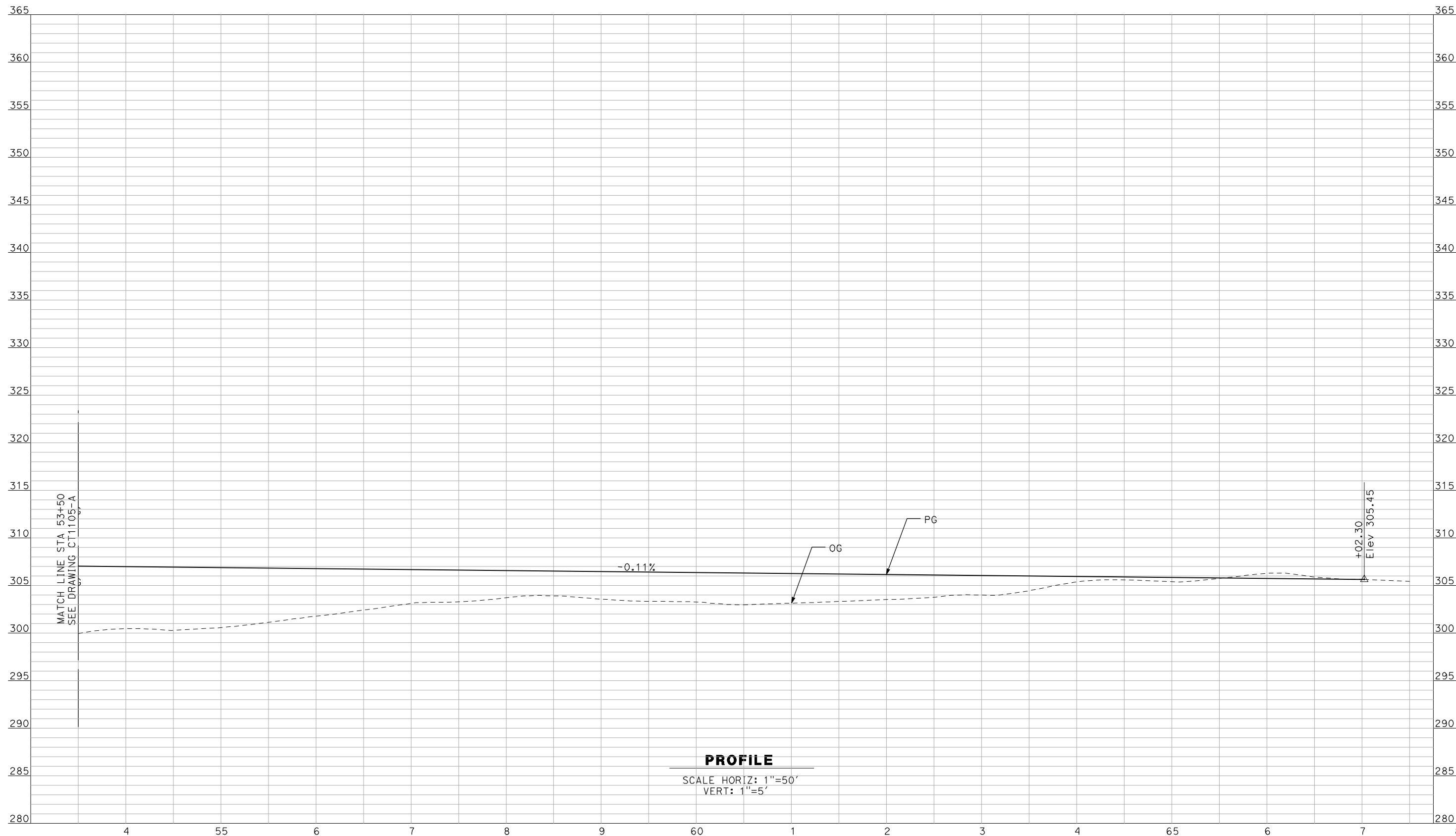


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 26
PROFILE
SHEET 3 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1105-A
SCALE
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SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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F. DEMARCO
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J. ZANDIAN
IN CHARGE
A. BOONE
DATE
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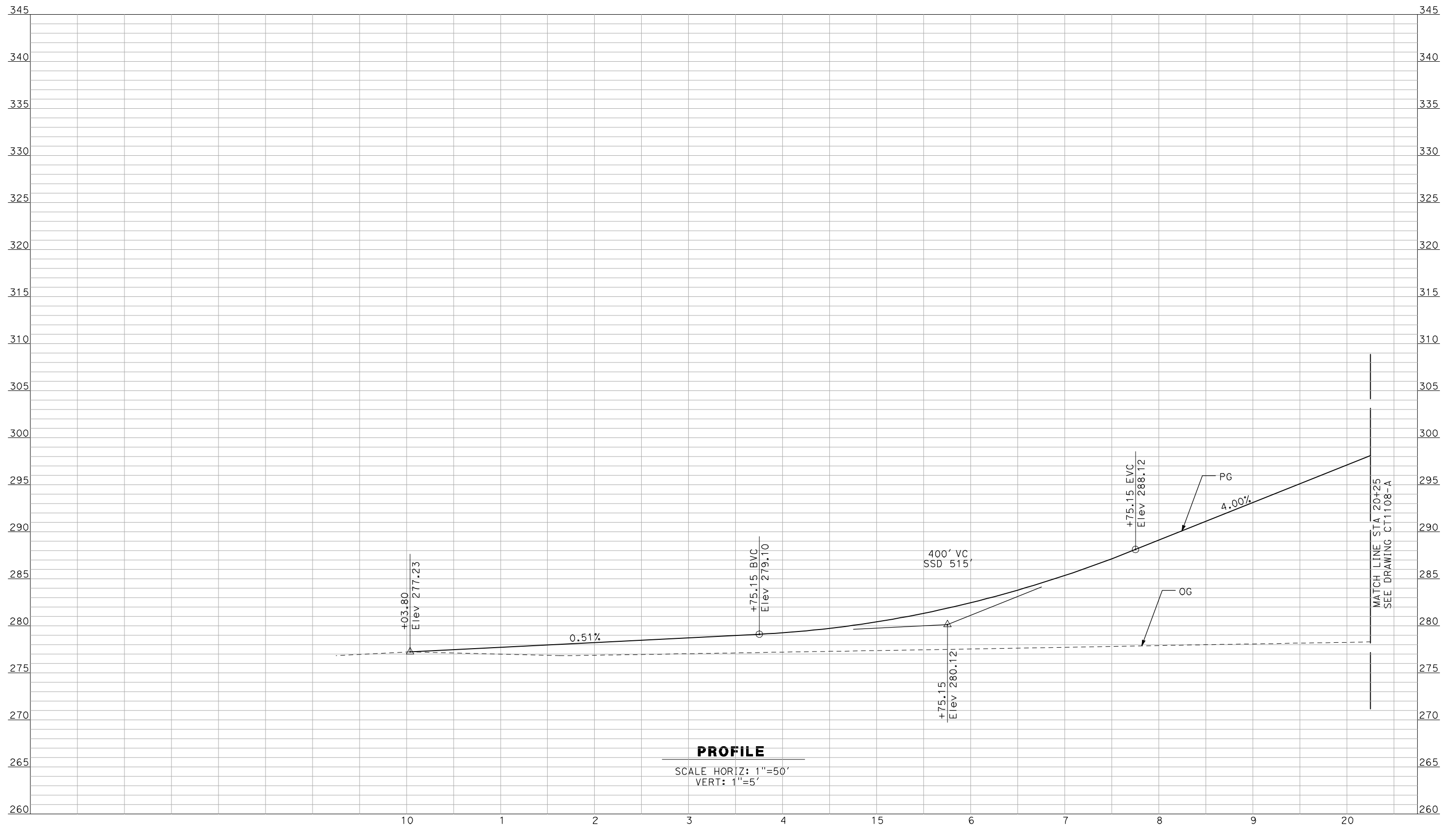


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 26
PROFILE
SHEET 4 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1106-A
SCALE
AS SHOWN
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OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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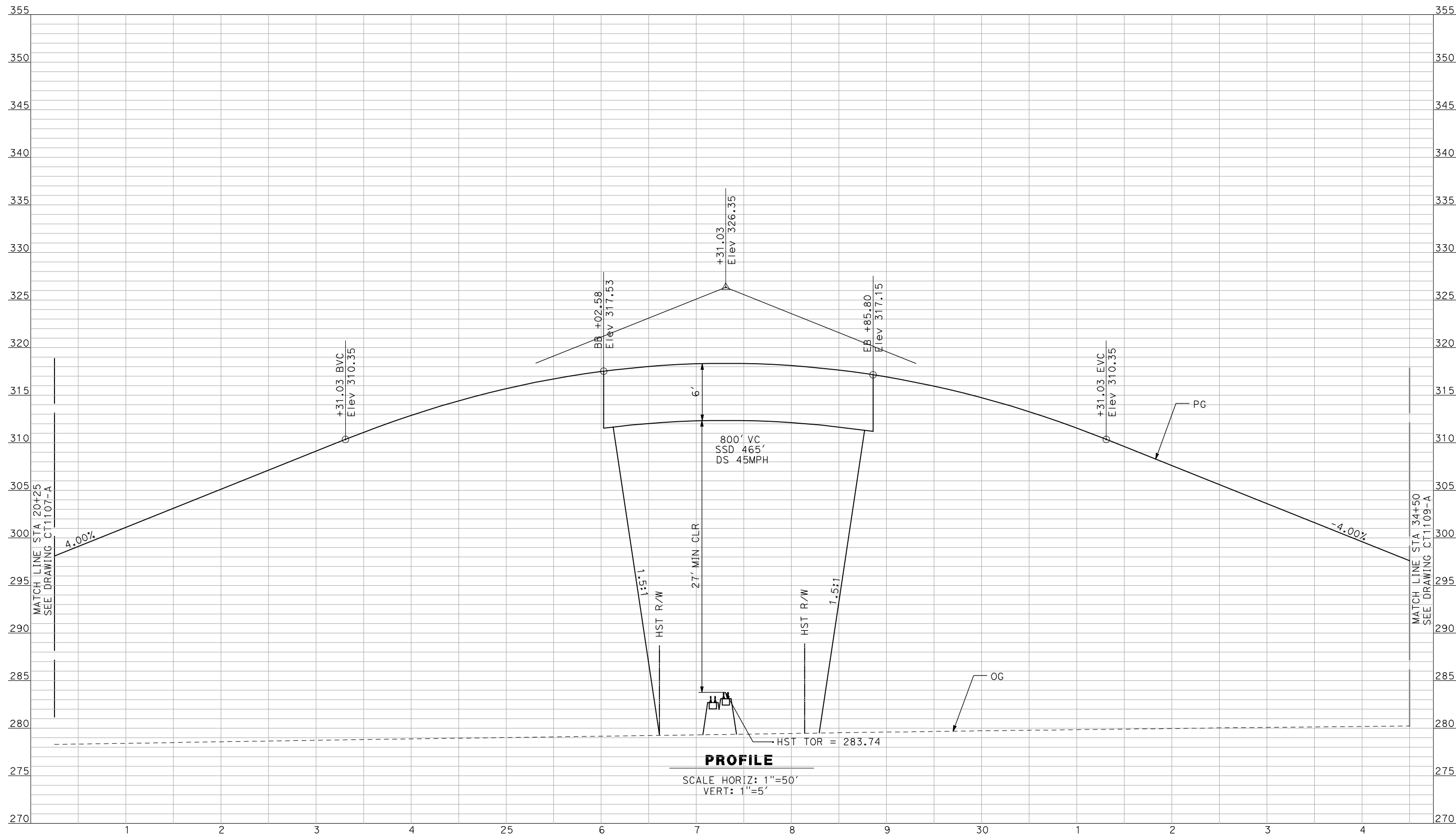


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE CONNECTION - AVE 24 WYE
GRADE SEPARATION - ROAD 21
PROFILE
SHEET 1 OF 3

CONTRACT NO.
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CT1107-A
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

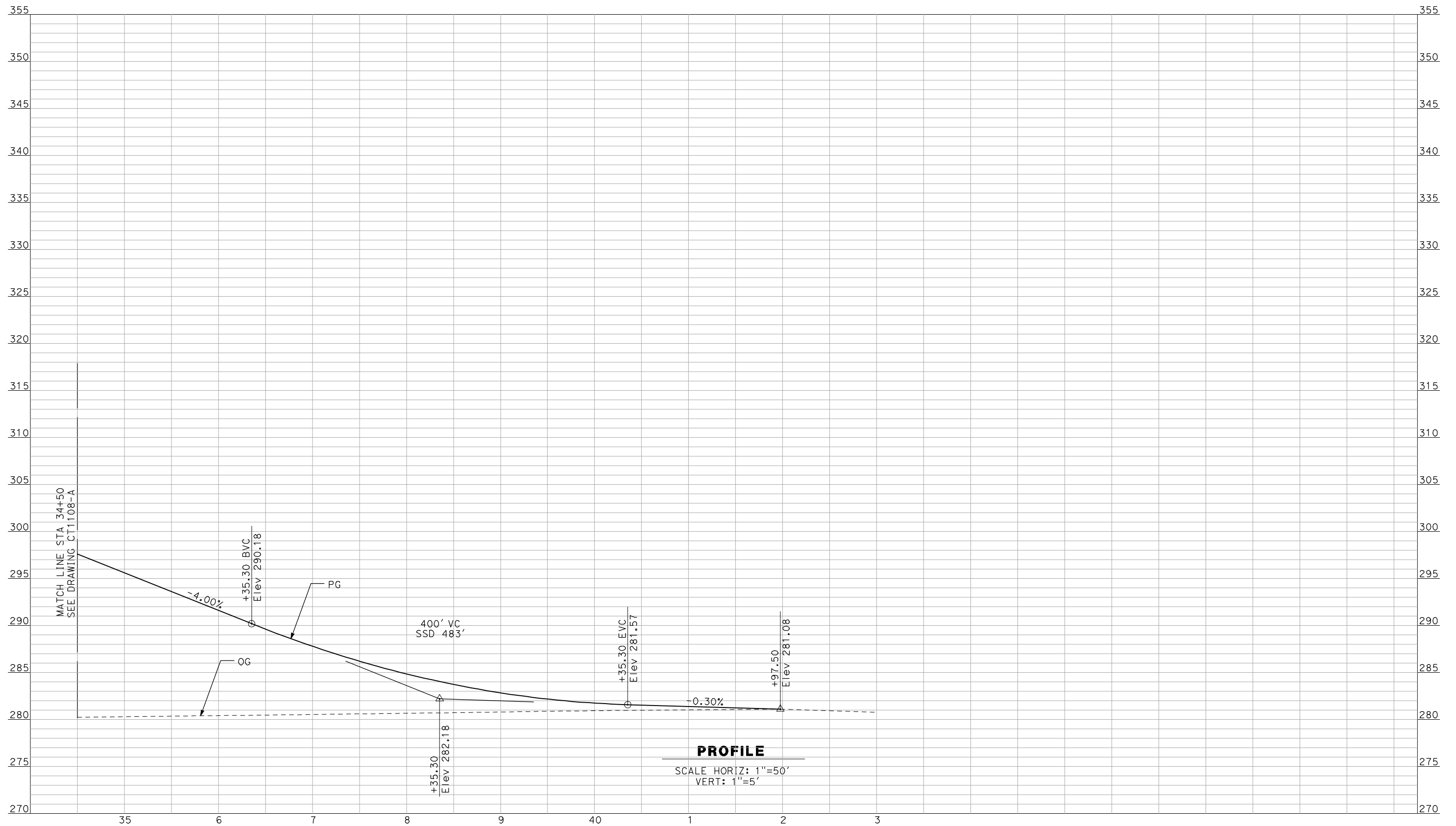
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE CONNECTION - AVE 24 WYE
GRADE SEPARATION - ROAD 21
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1108-A
SCALE
AS SHOWN
SHEET NO.
OF

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IN CHARGE
A. BOONE
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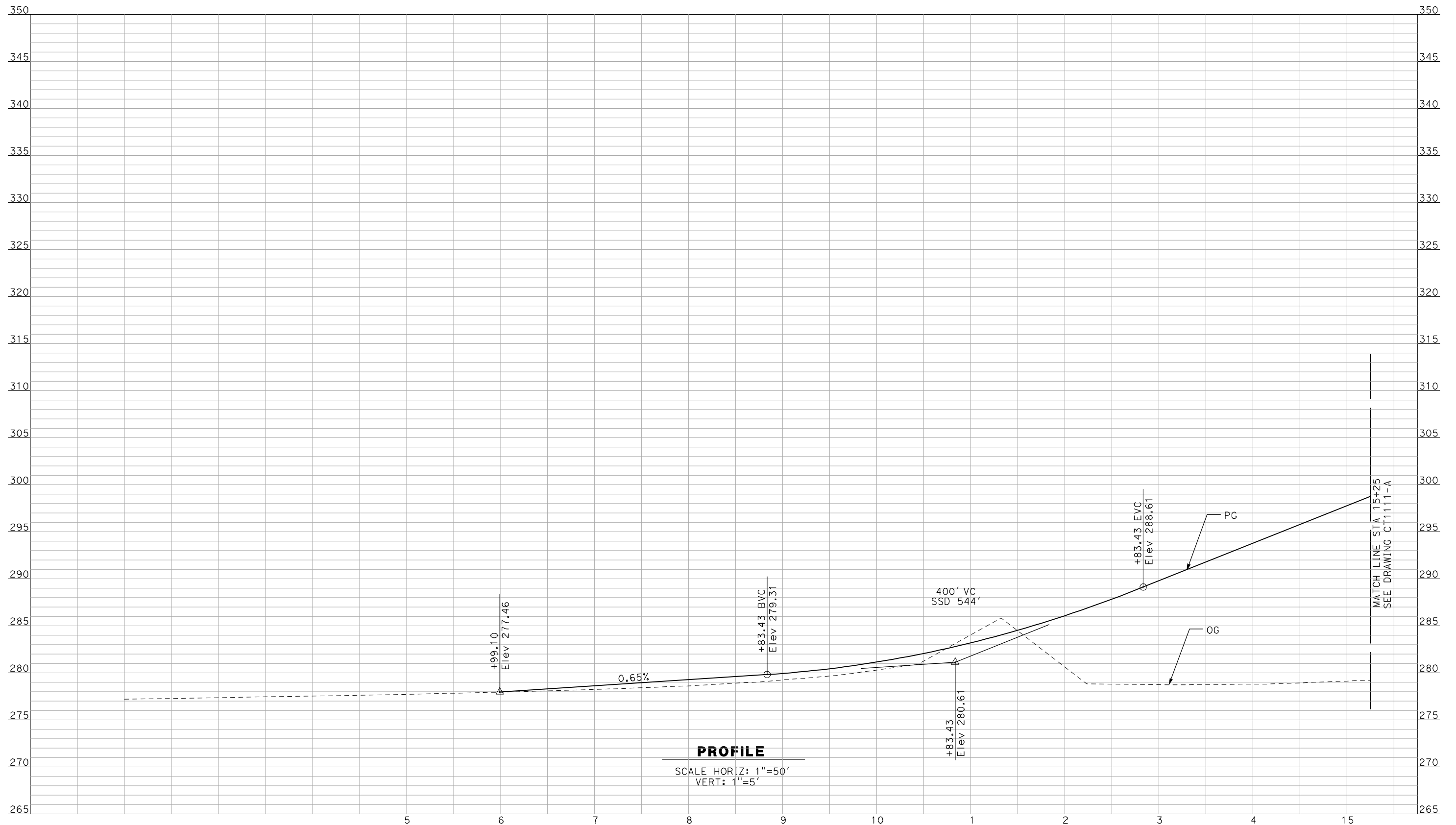


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE CONNECTION - AVE 24 WYE
GRADE SEPARATION - ROAD 21
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1109-A
SCALE
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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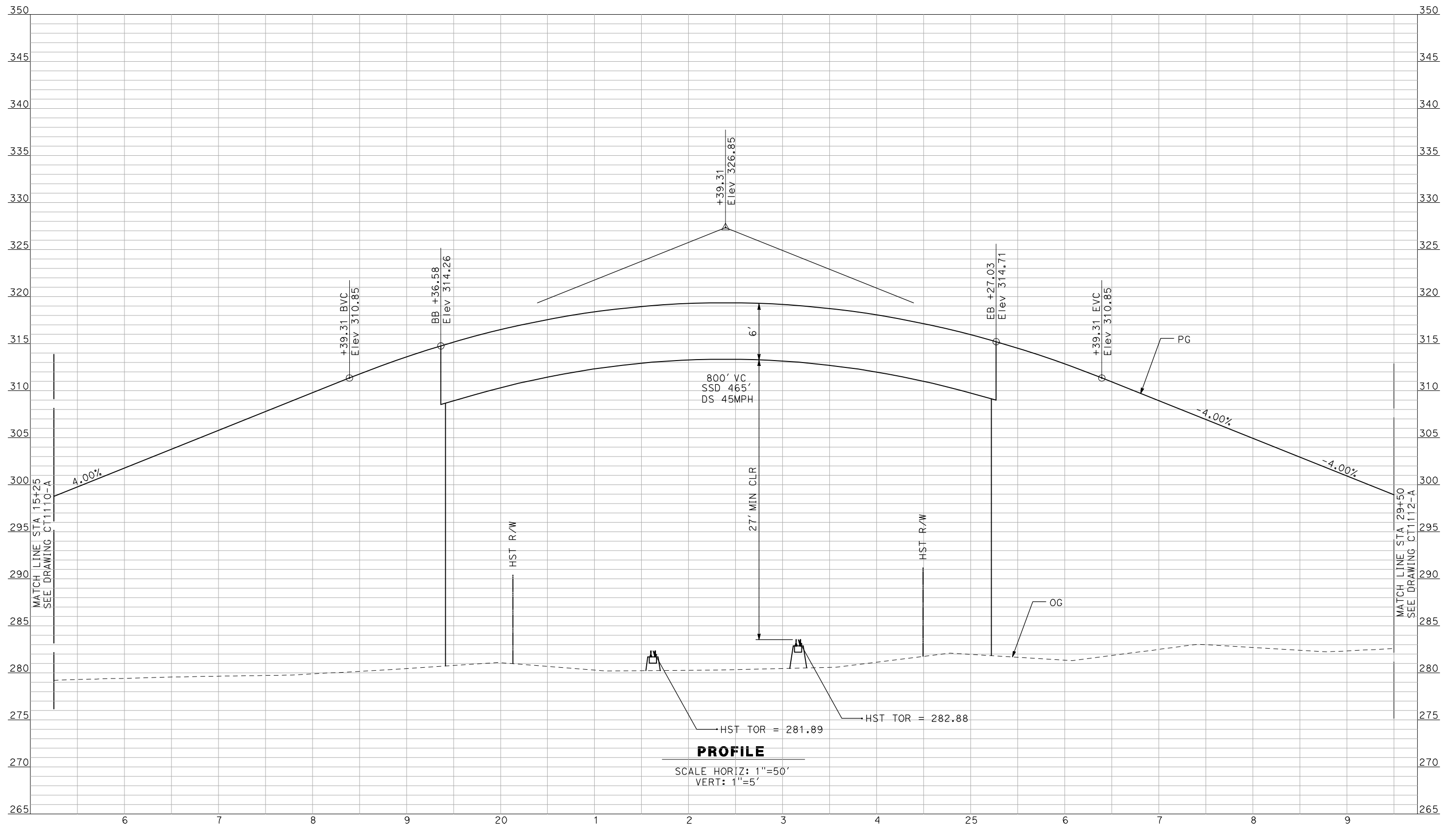


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

A1 MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 24
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT-1110-A
SCALE
AS SHOWN
SHEET NO.
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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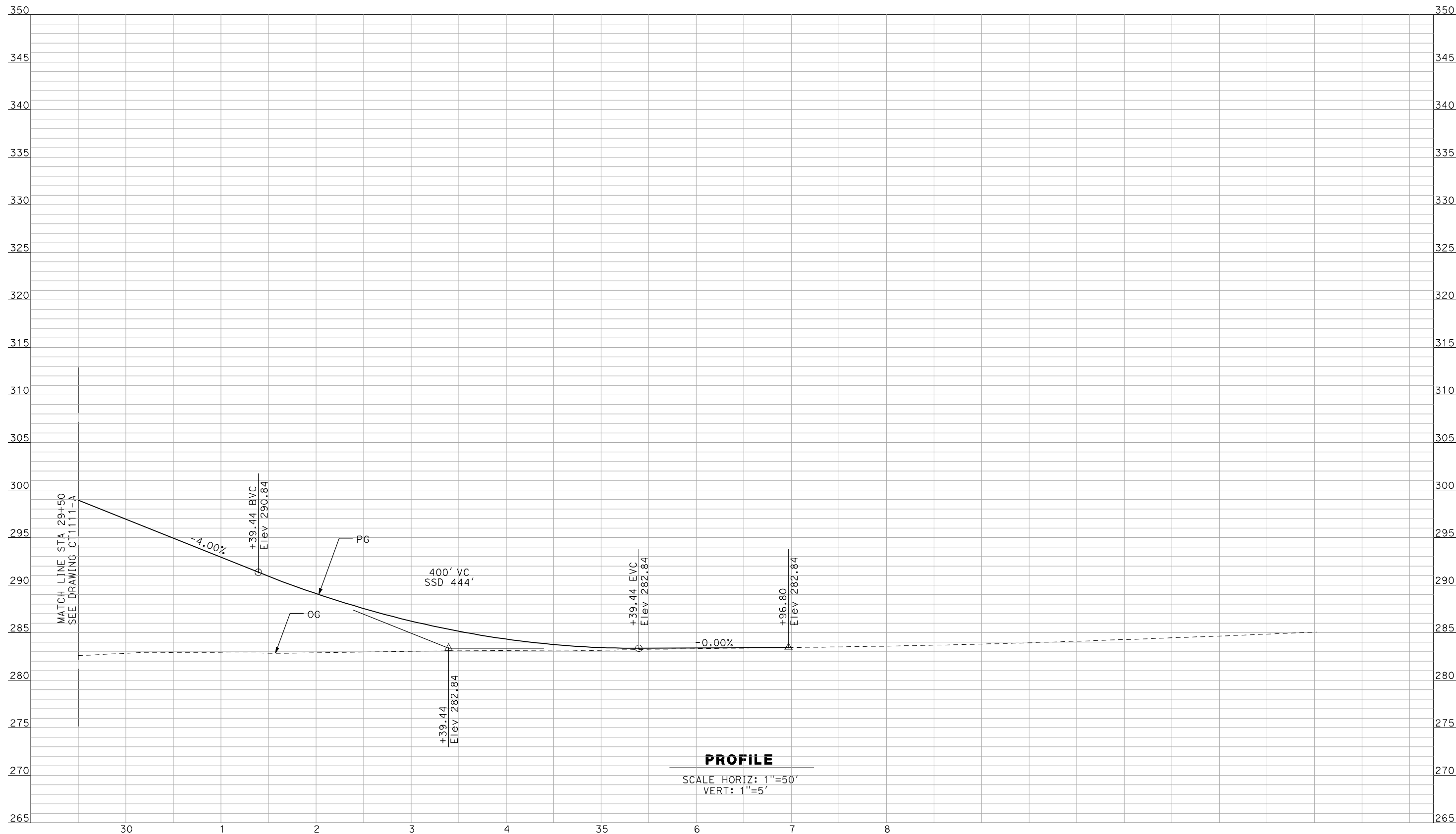
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
A1 MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 24
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1111-A
SCALE
AS SHOWN
SHEET NO.
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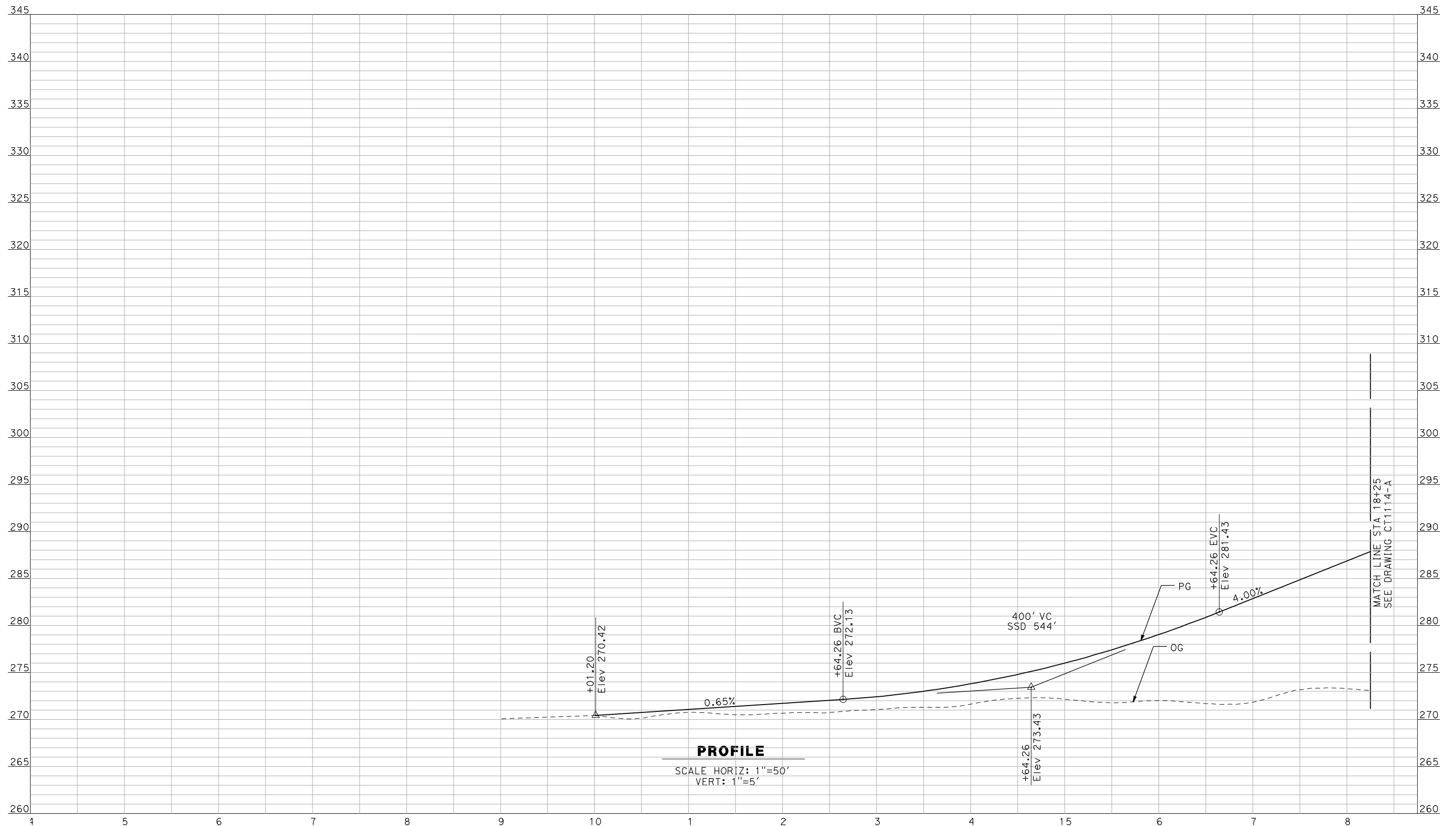


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

A1 MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 24
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT1112-A
SCALE	AS SHOWN
SHEET NO.	OF ###

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PROFILE

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VERT: 1"=5'

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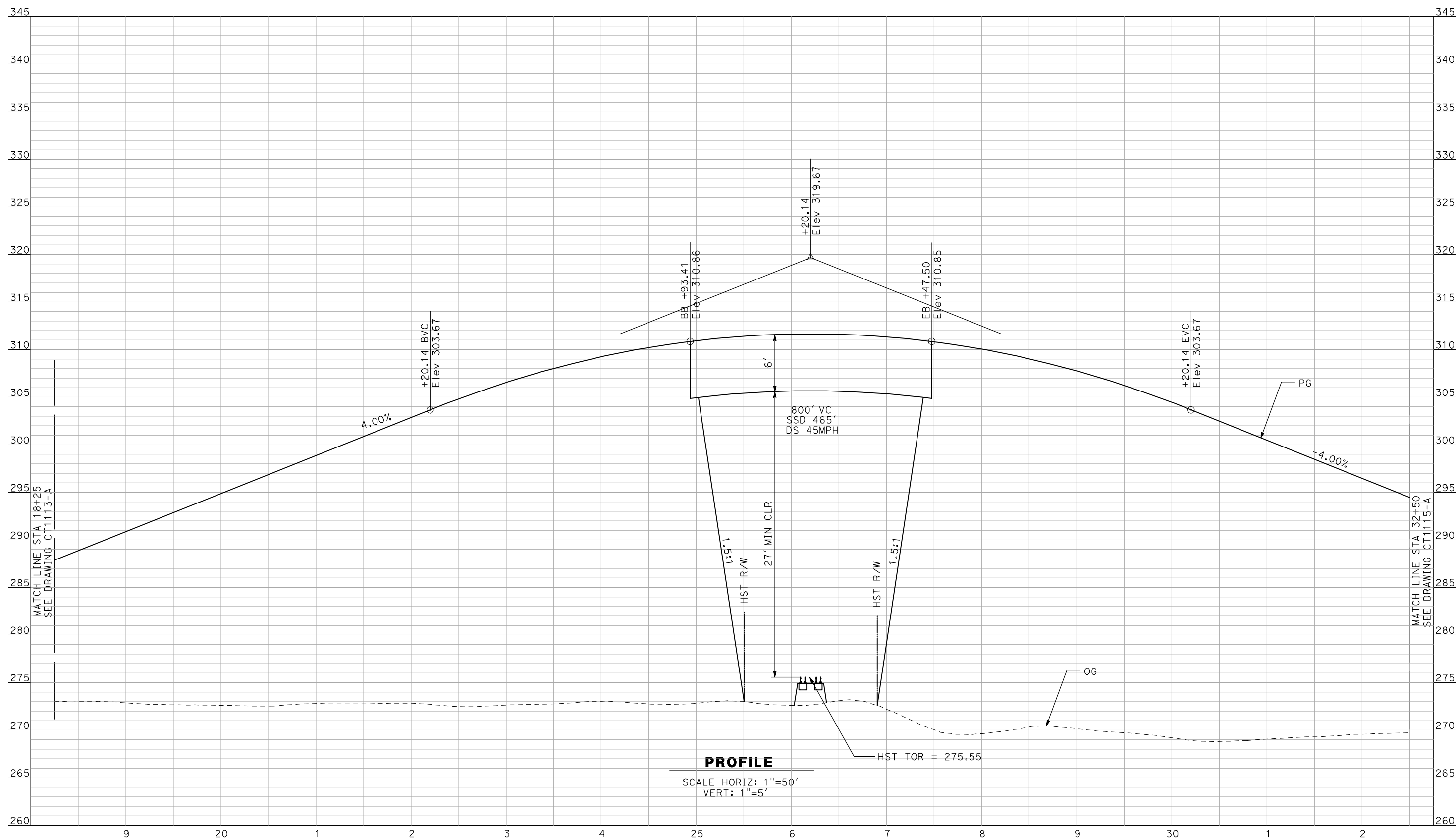


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 20
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1113-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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A. BOONE
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CONSTRUCTION**

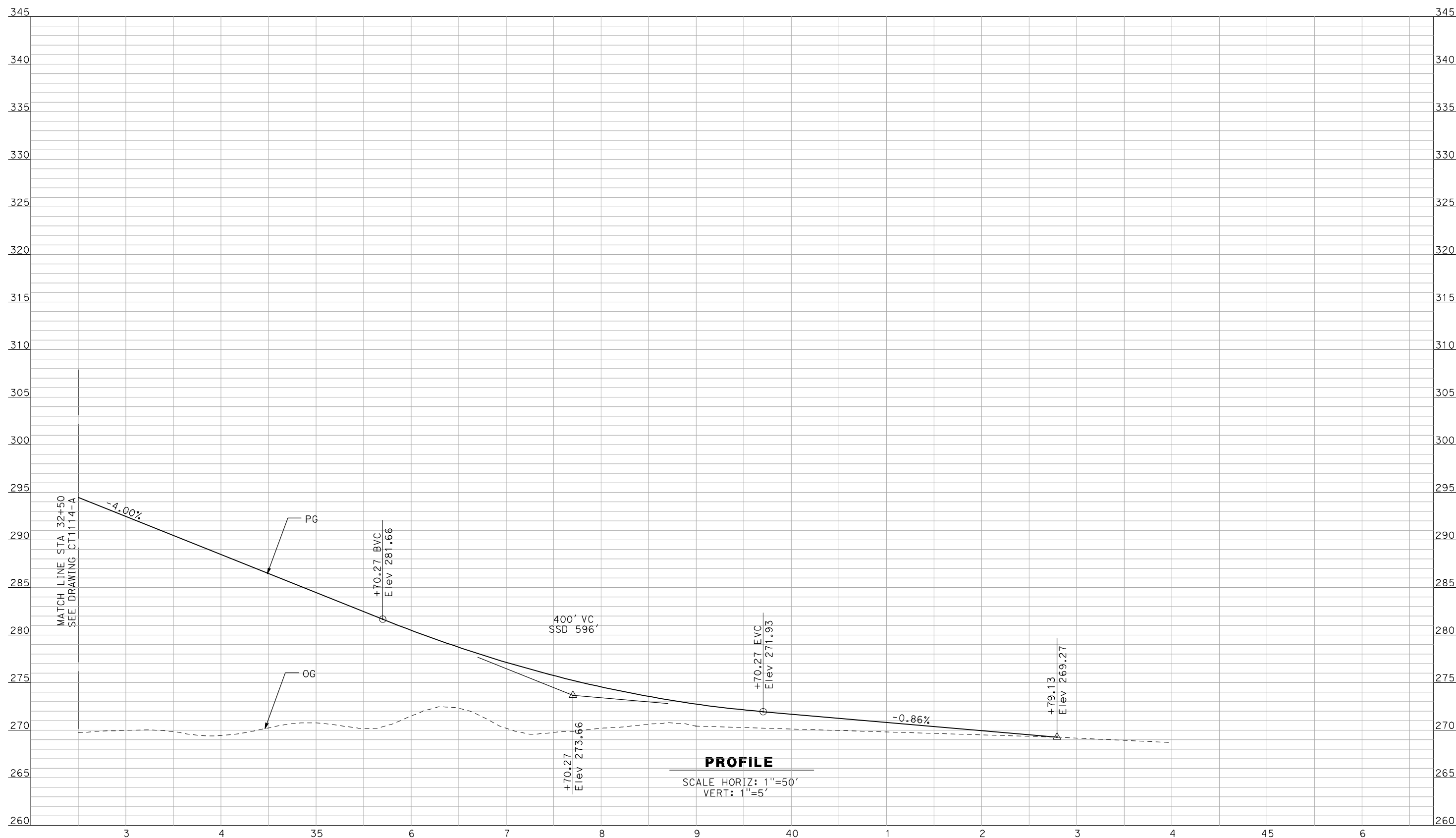


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 20
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1114-A
SCALE
AS SHOWN
SHEET NO.
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R. GIBSON
 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

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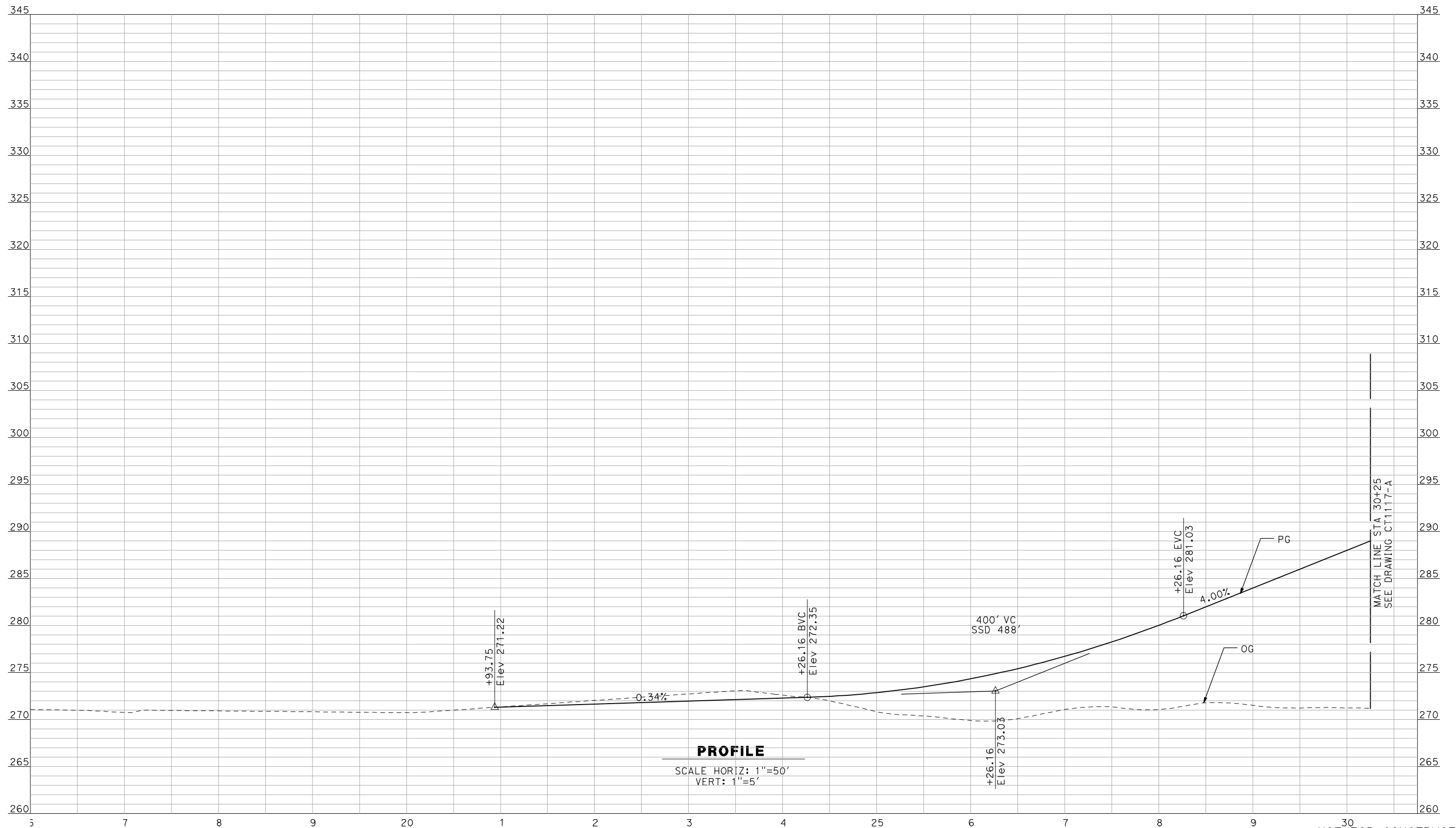
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 20
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1115-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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A. BOONE
DATE
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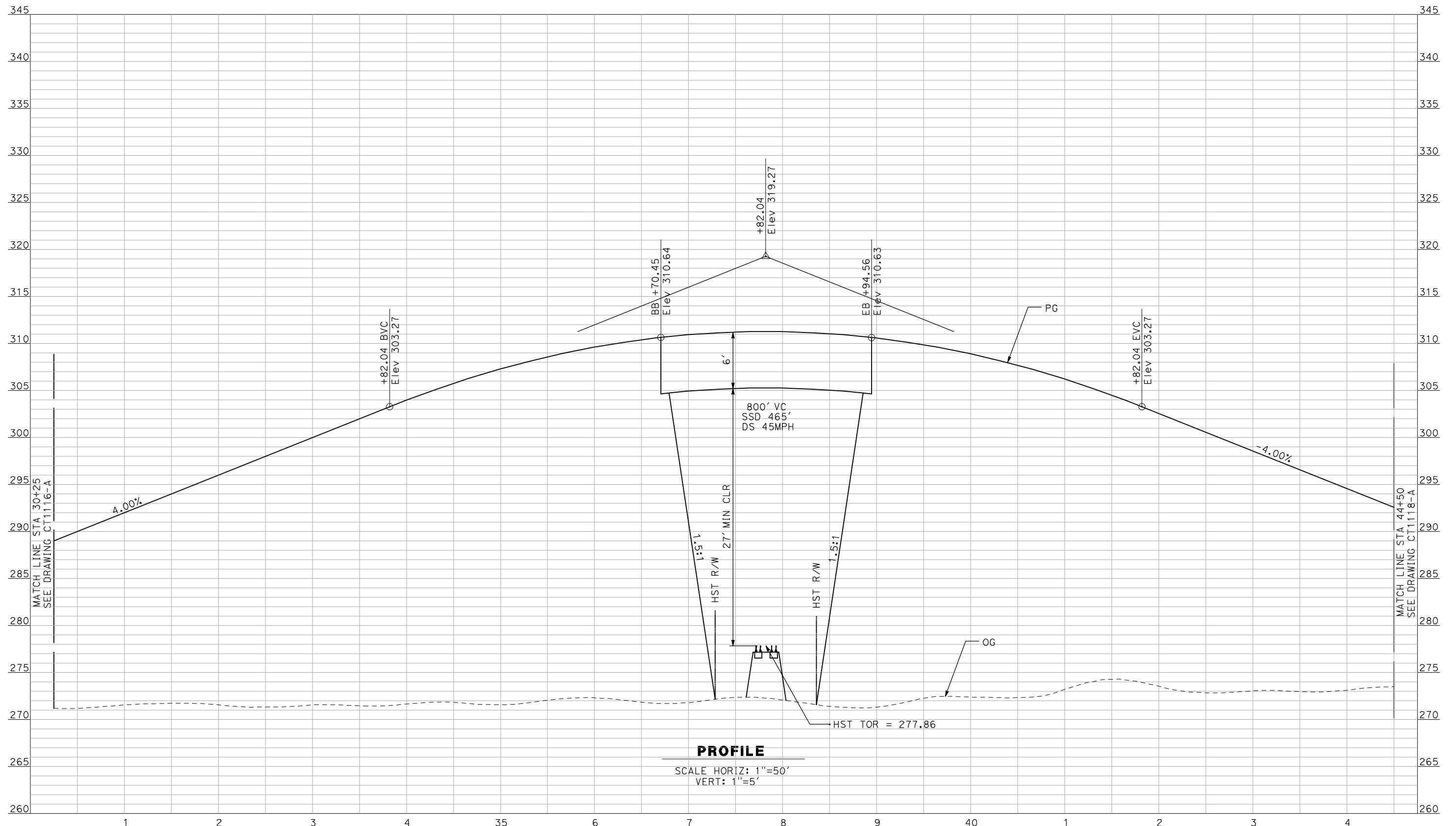


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 20 1/2
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1116-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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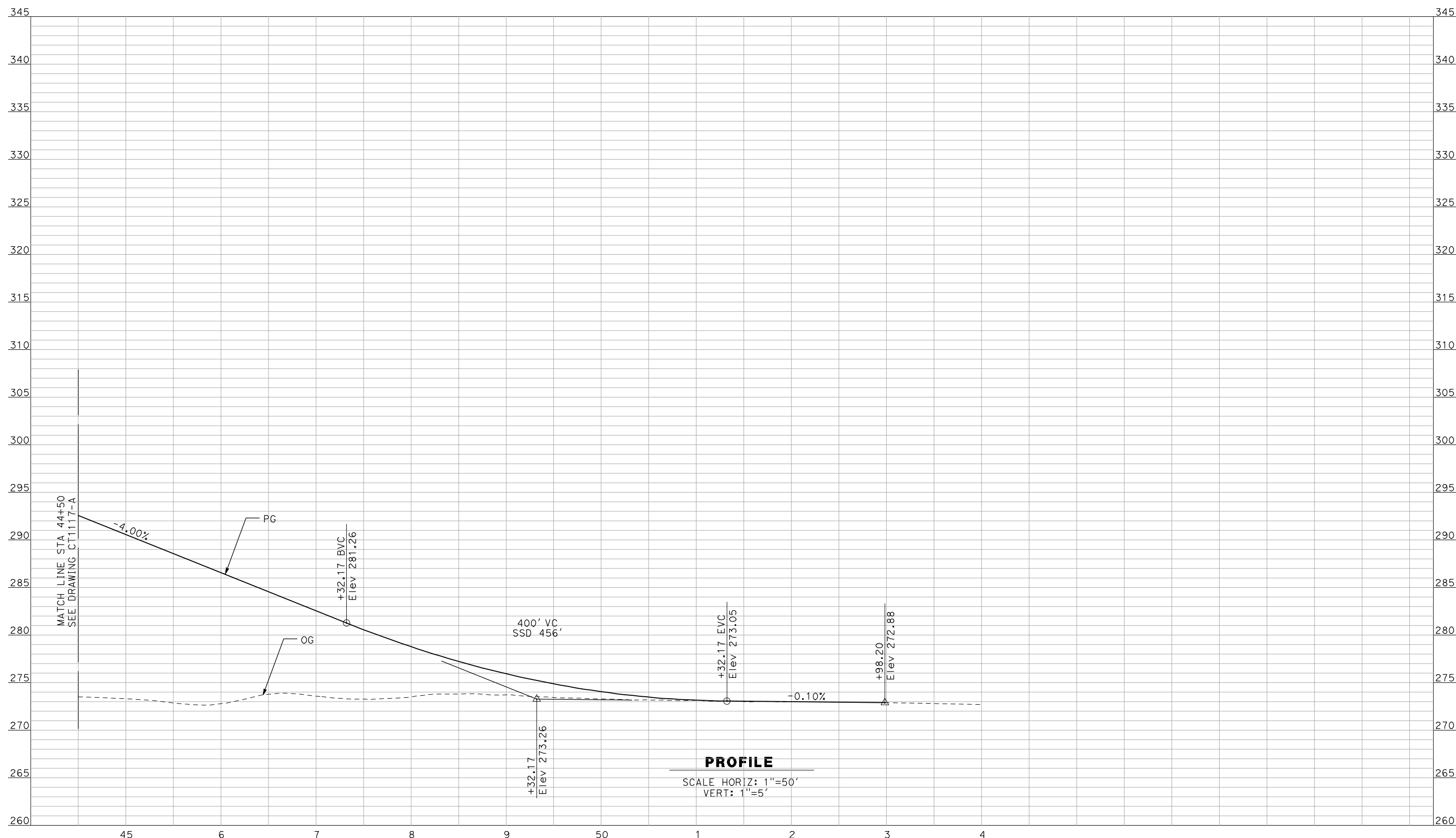


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 20 1/2
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1117-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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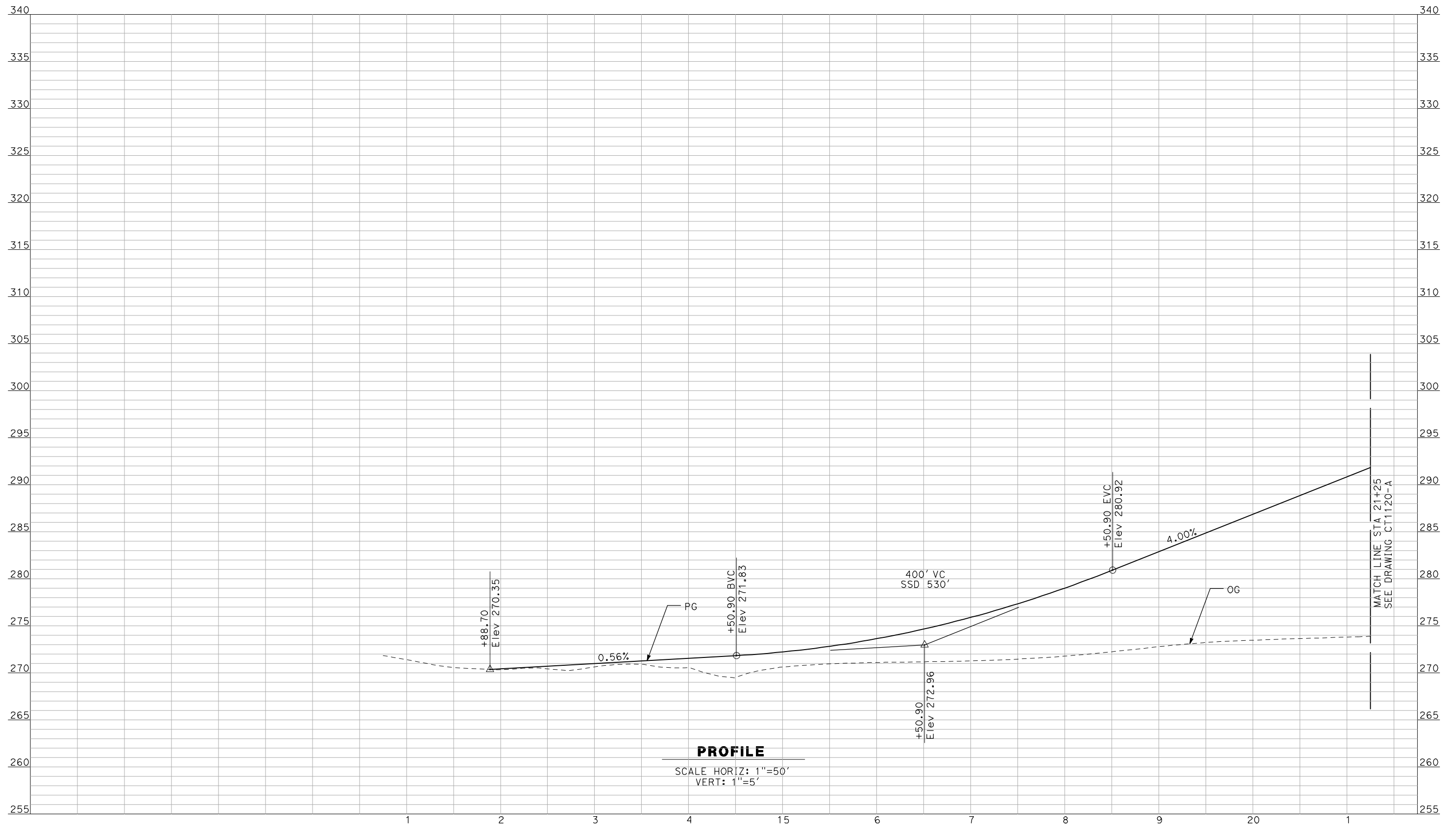
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 20 1/2
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1118-A
 SCALE
 AS SHOWN
 SHEET NO.
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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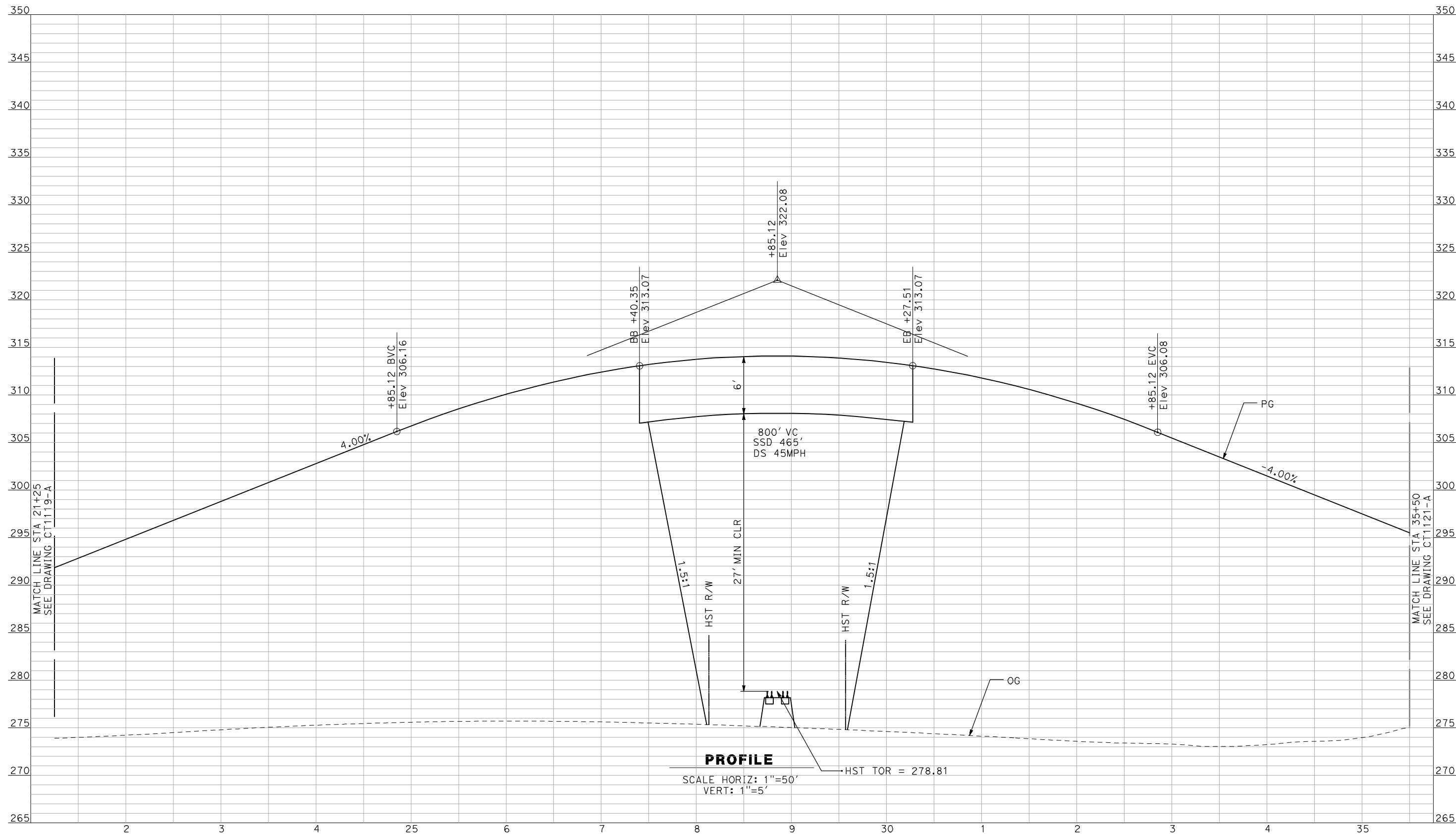


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 24
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1119-A
SCALE
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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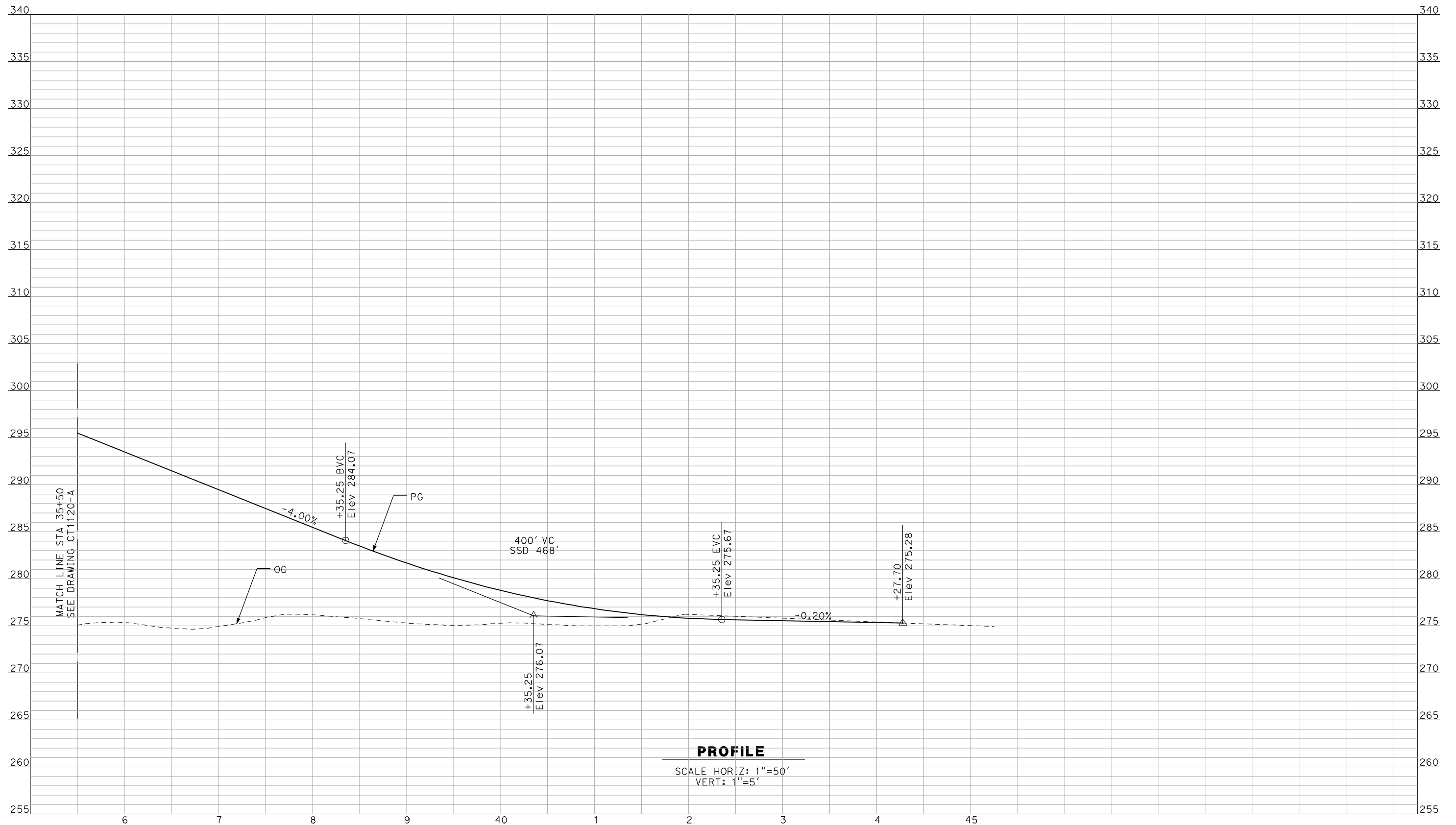
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 24
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
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CT1120-A
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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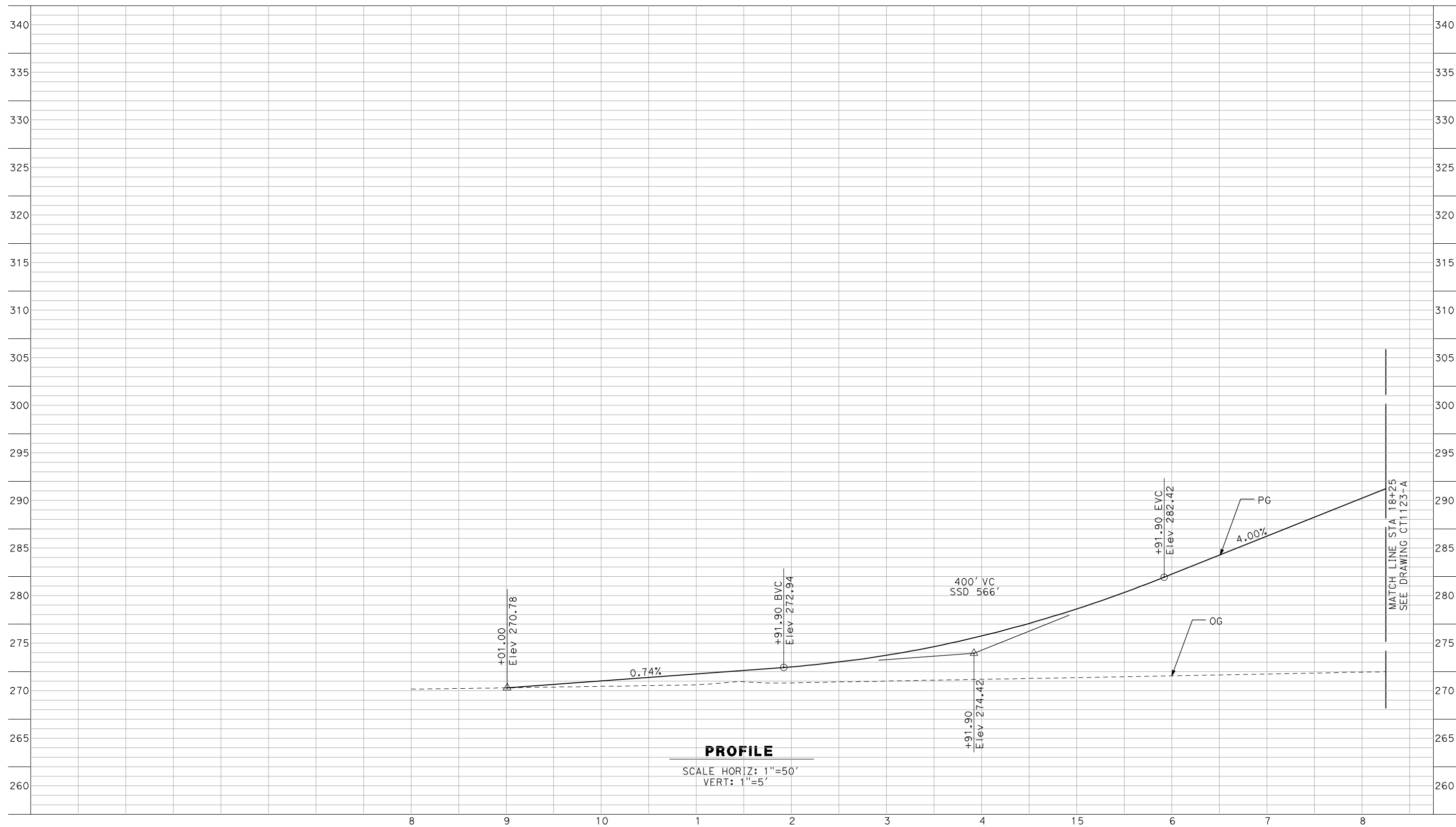


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 24
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1121-A
SCALE
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SHEET NO.
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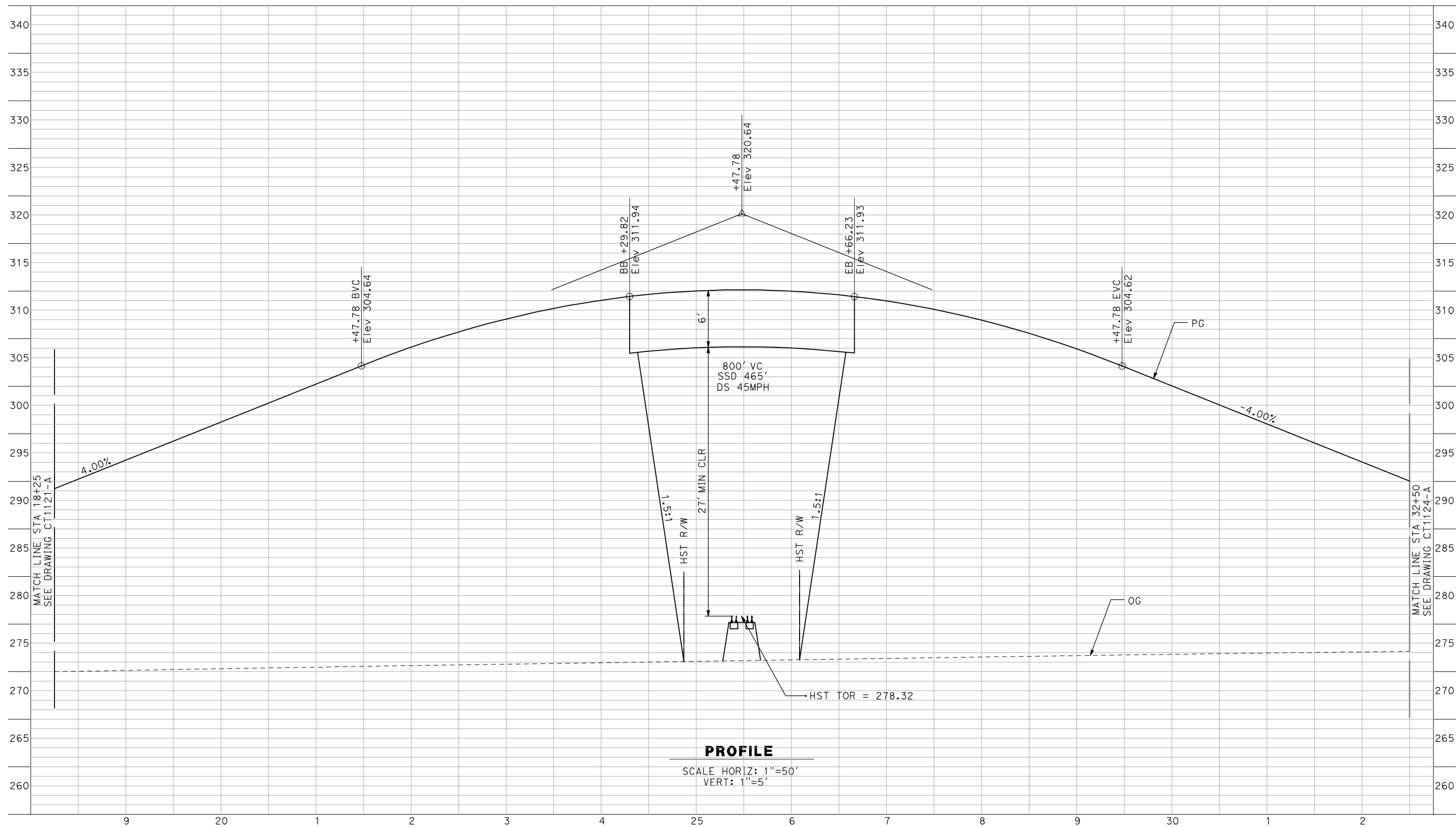
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 22
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1122-A
 SCALE
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 SHEET NO.
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PROFILE

SCALE HORIZ: 1"=50'
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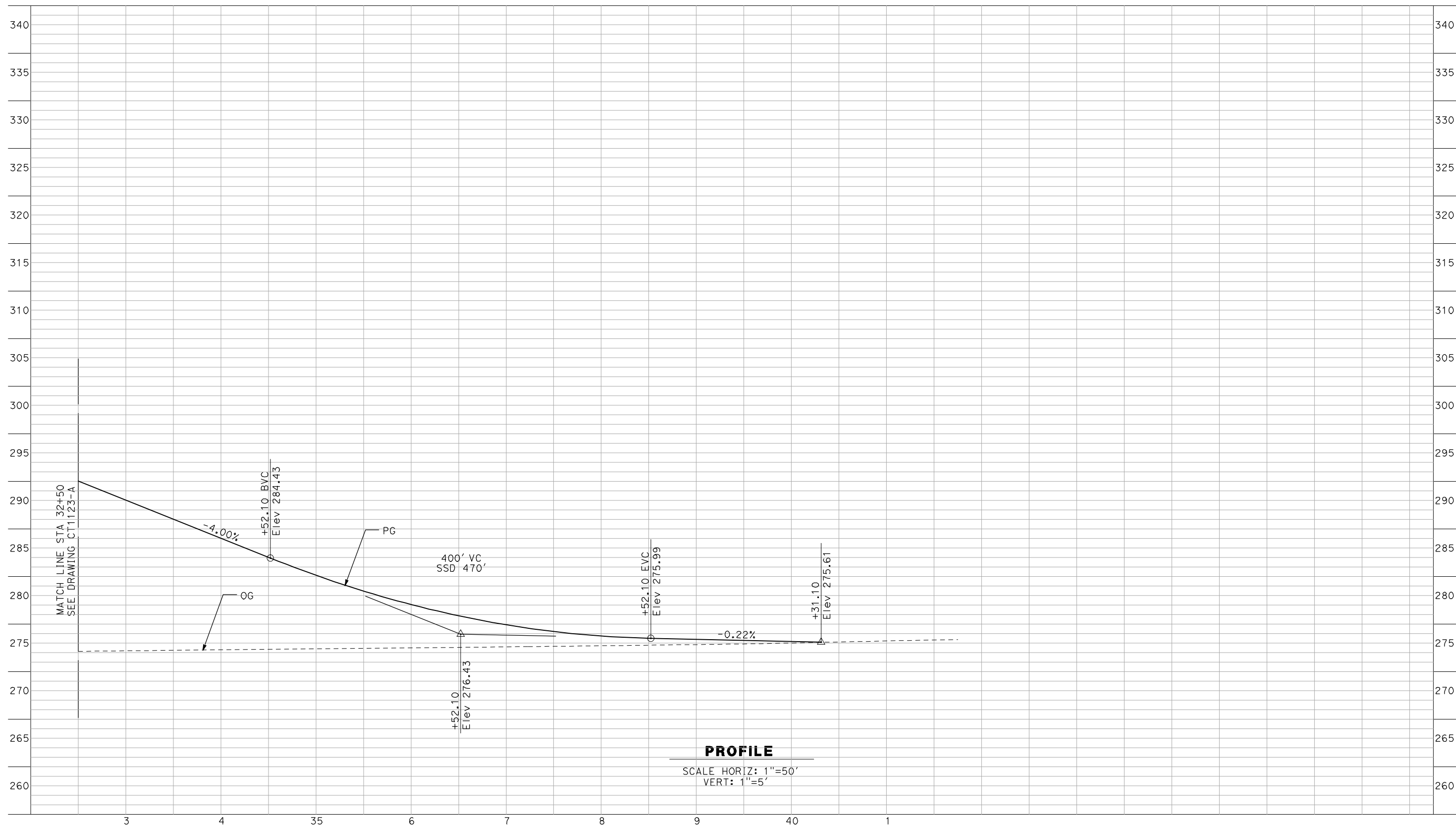
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 22
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1123-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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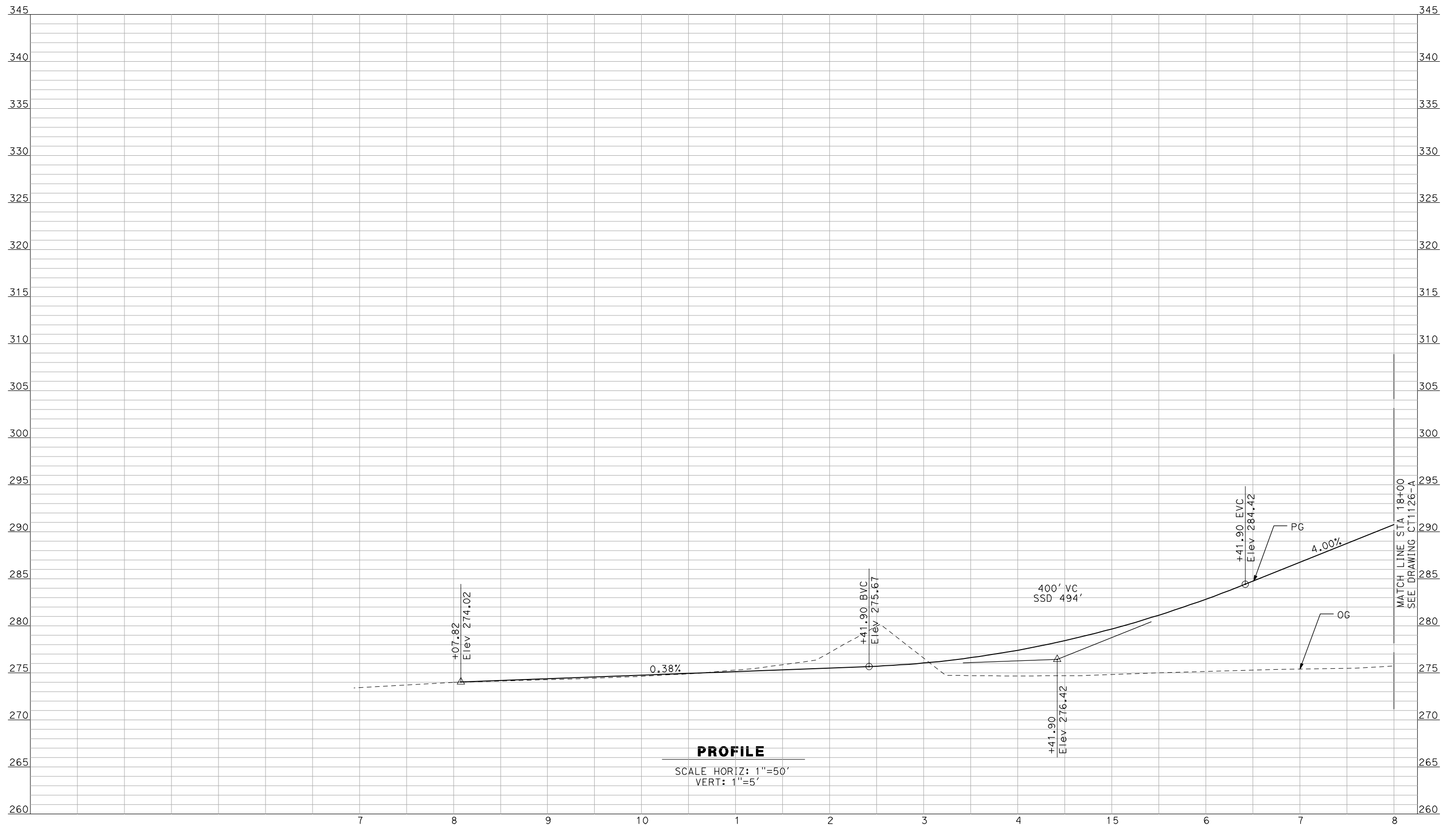
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 22
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1124-A
 SCALE
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OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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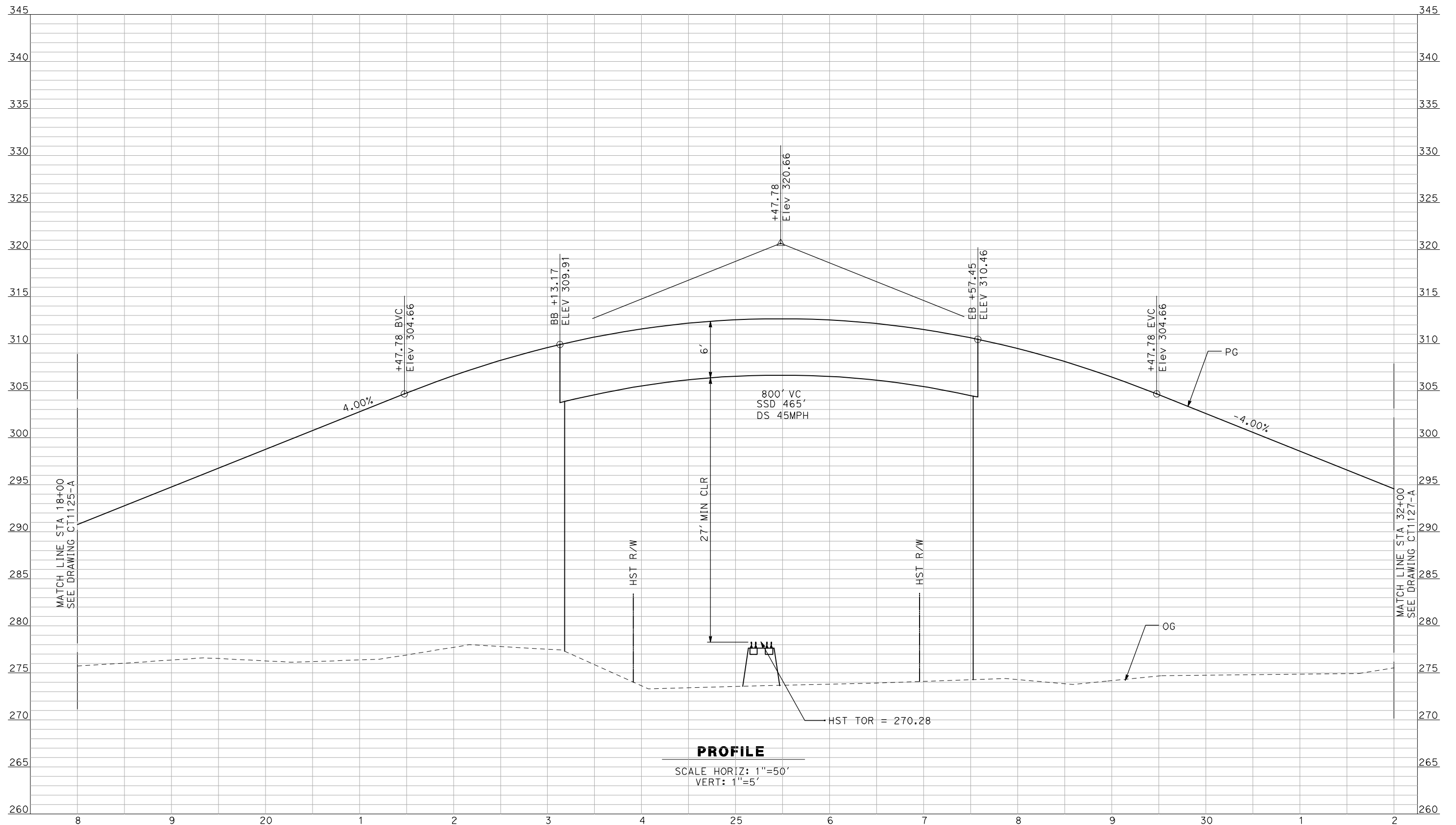


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1125-A
SCALE
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PROFILE

SCALE HORIZ: 1"=50'
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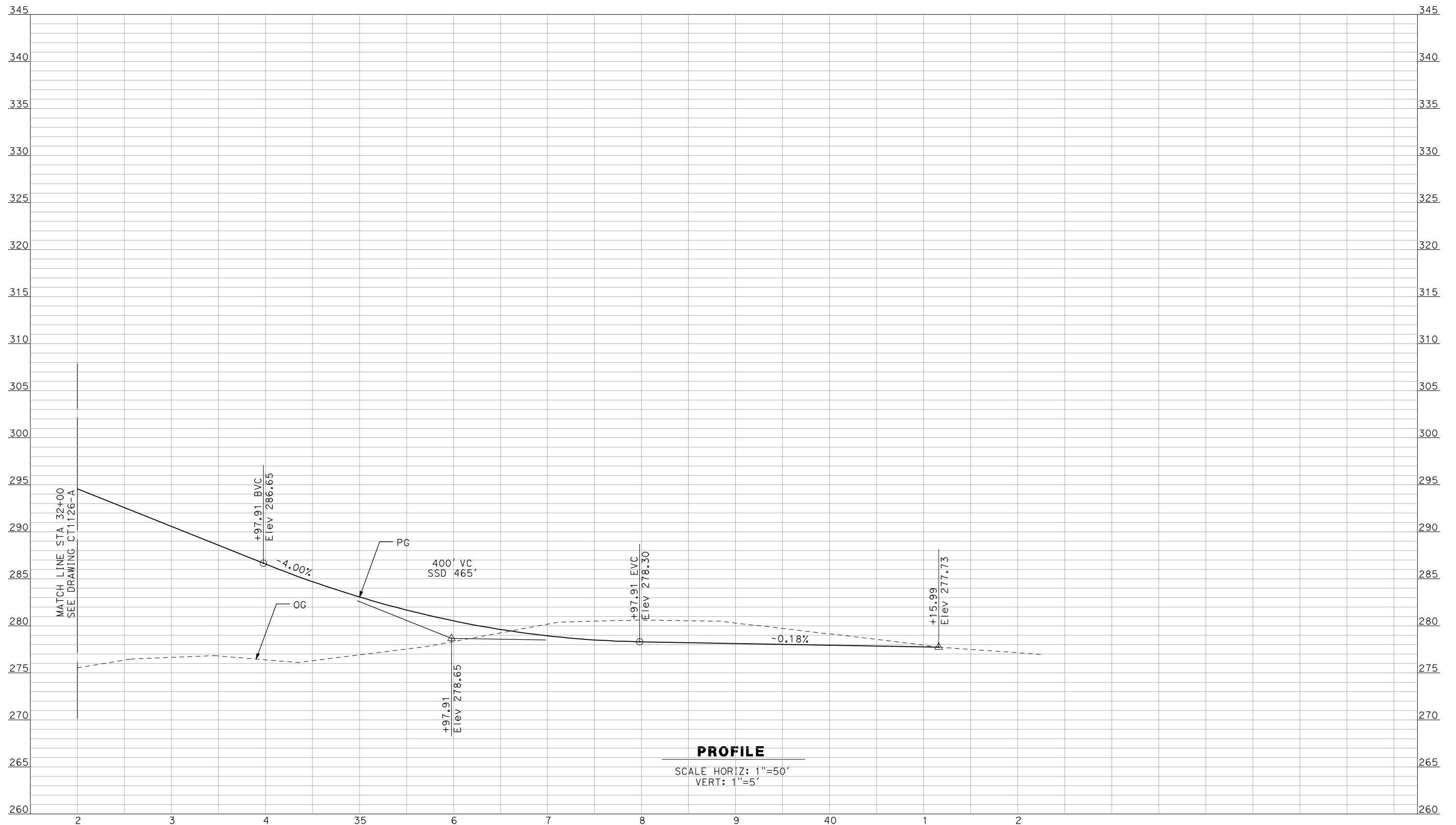
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1126-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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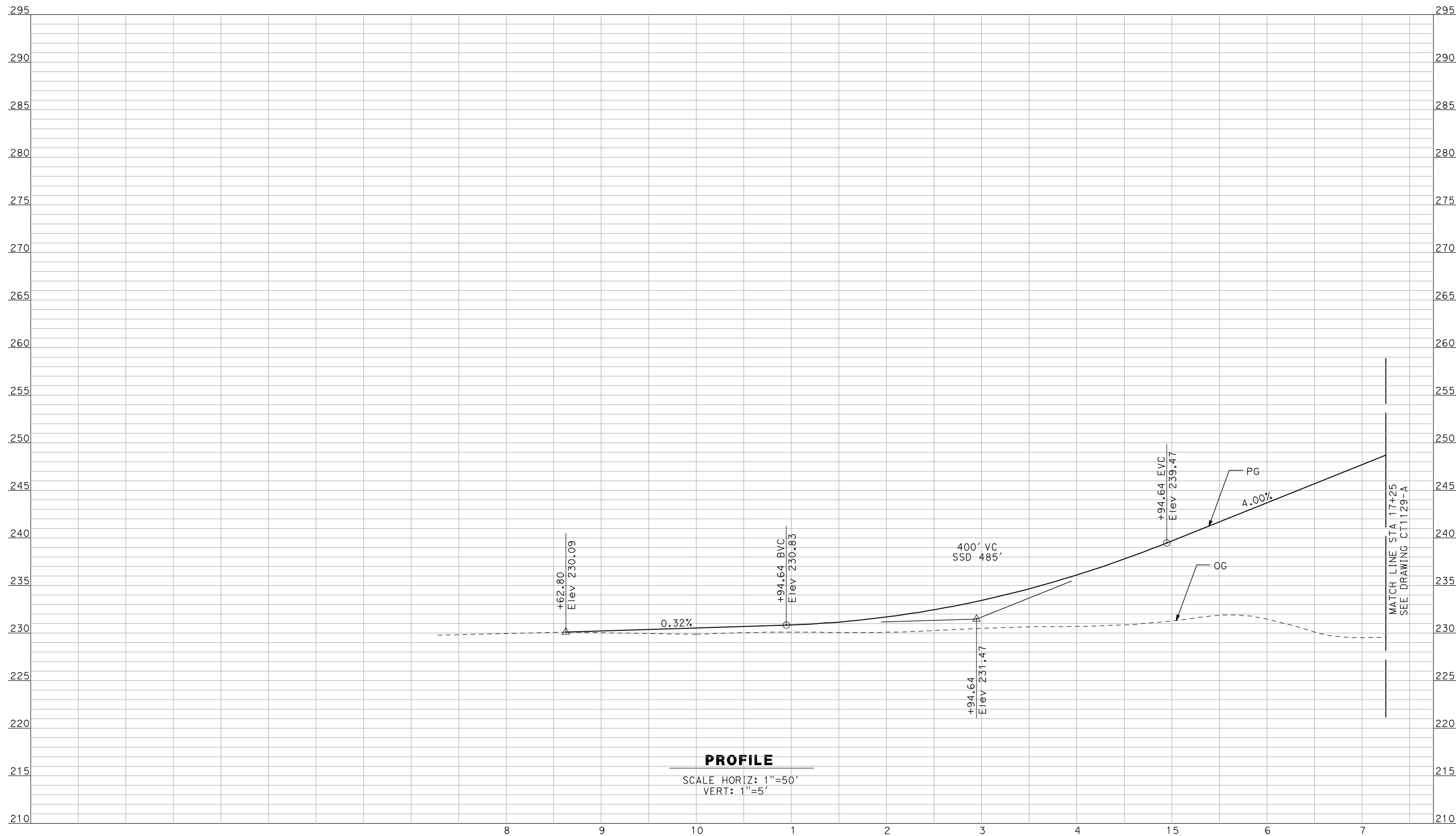


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1127-A
SCALE
AS SHOWN
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A. BOONE
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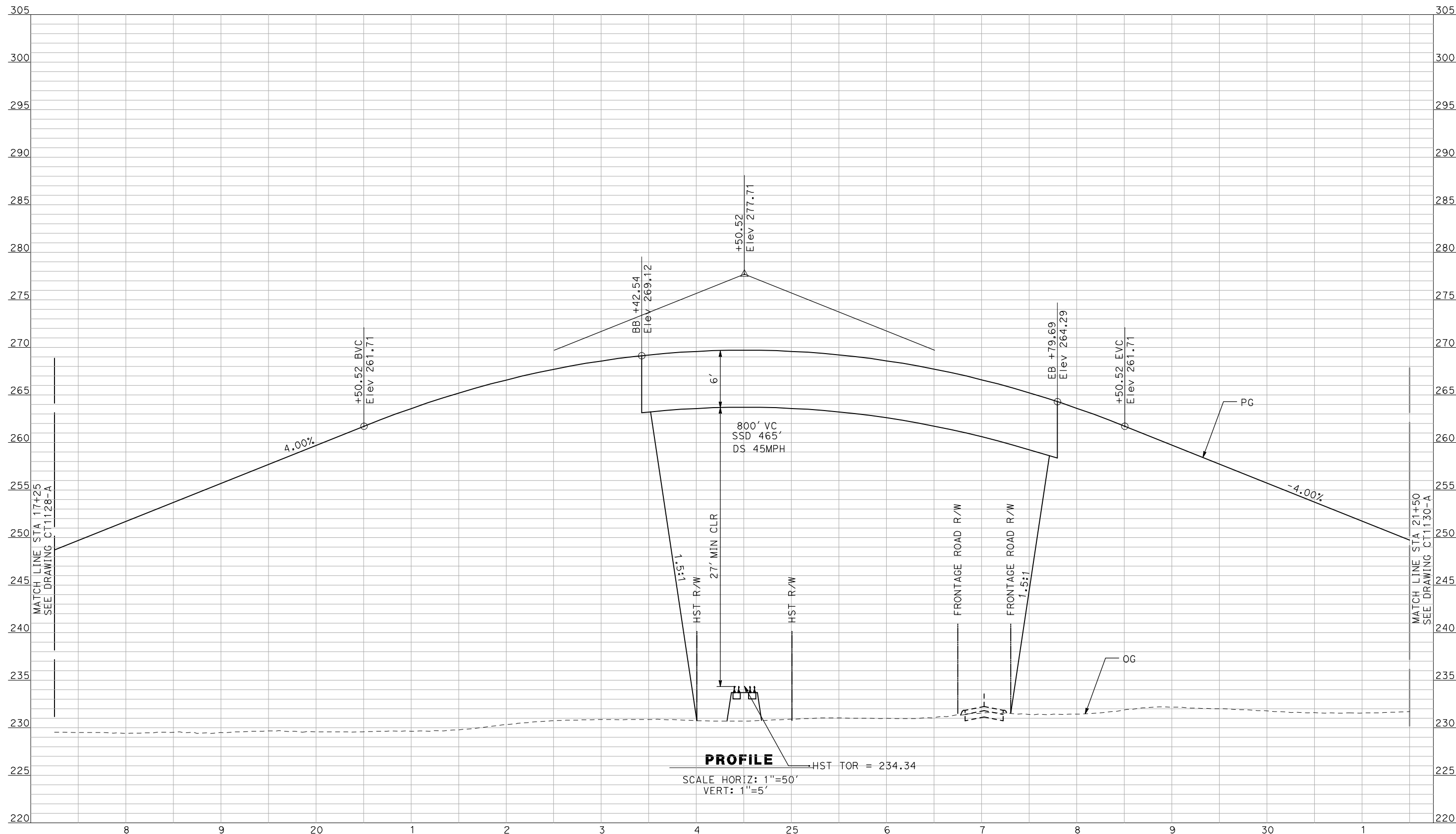
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 16
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1128-A
 SCALE
AS SHOWN
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PROFILE
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 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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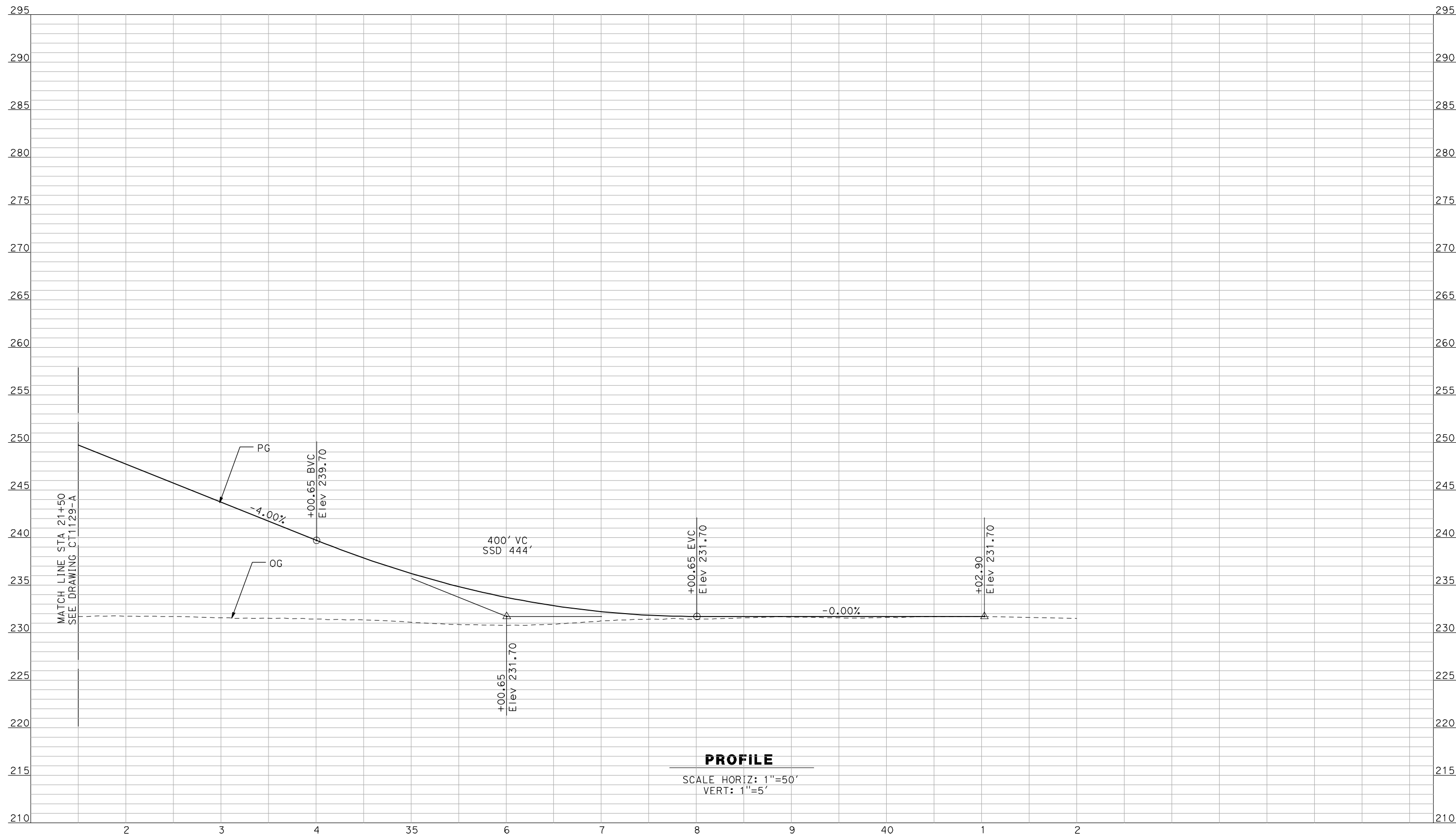
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 16
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
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CT1129-A
 SCALE
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PROFILE

SCALE HORIZ: 1"=50'
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IN CHARGE
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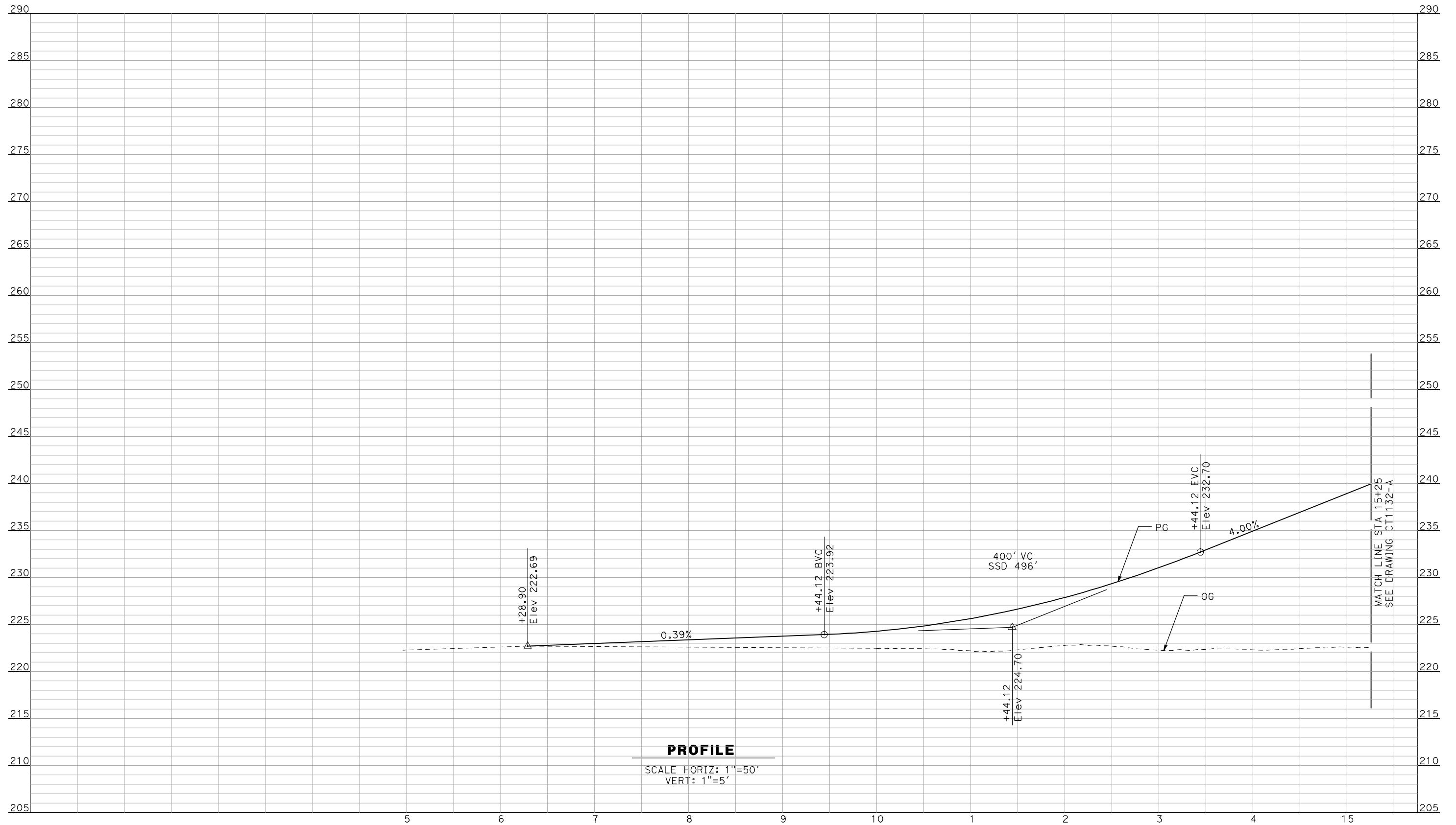


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 3 OF 3

CONTRACT NO.
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DRAWING NO.
CT1130-A
SCALE
AS SHOWN
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OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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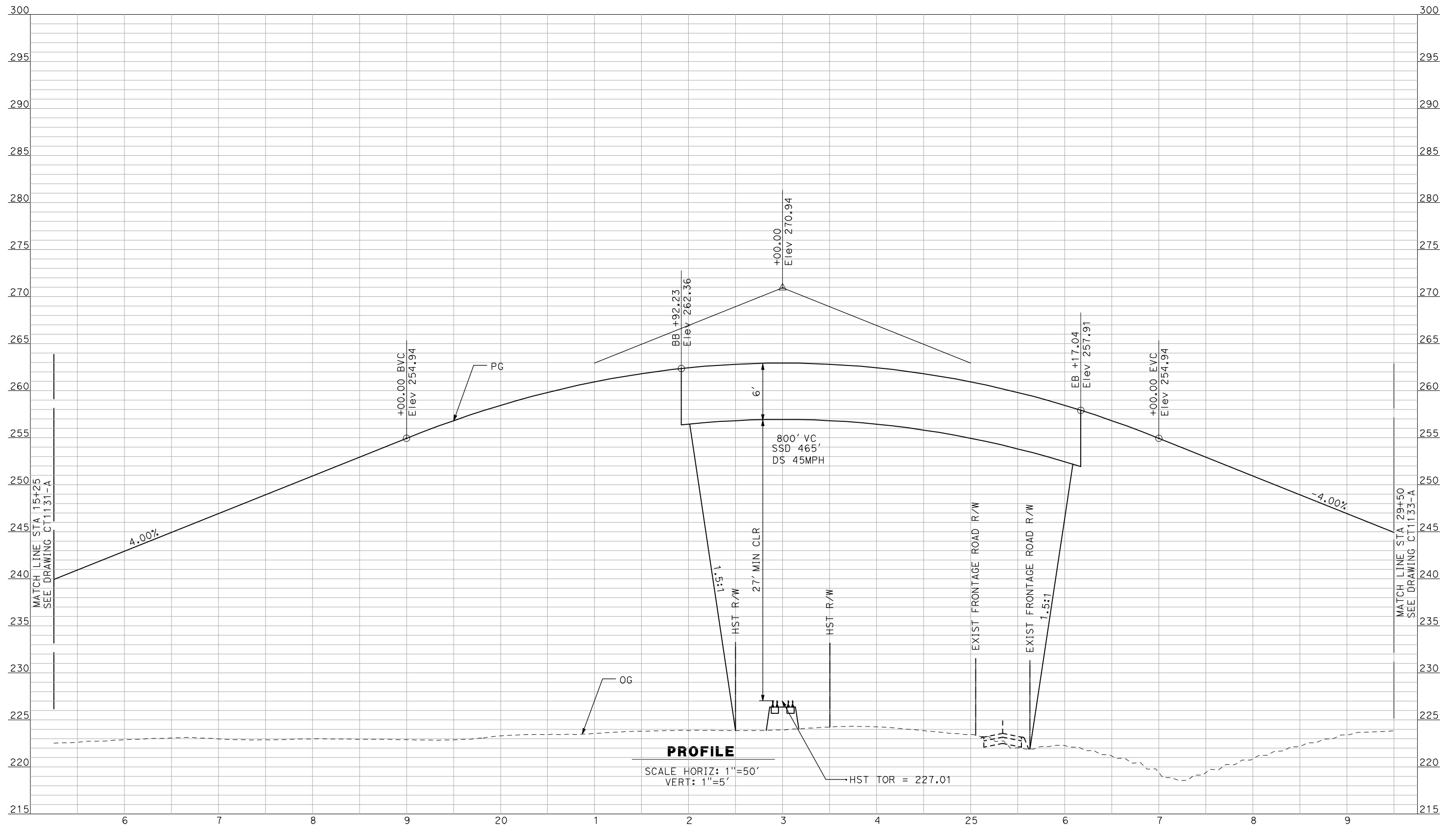
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 15
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 15
 PROFILE
 SHEET 2 OF 3

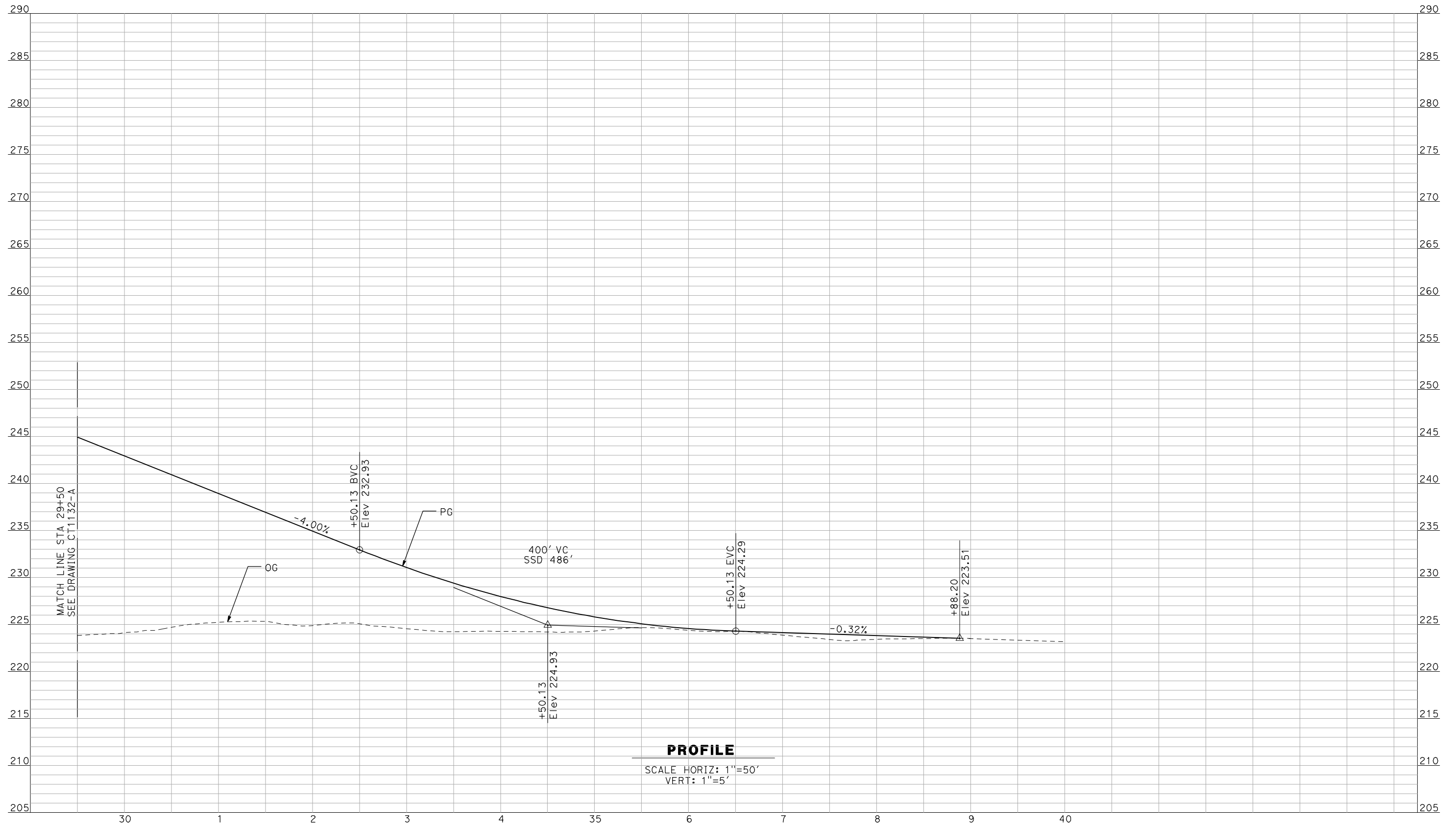
CONTRACT NO.
 HSR06-007

DRAWING NO.
 CT1132-A

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SHEET NO.
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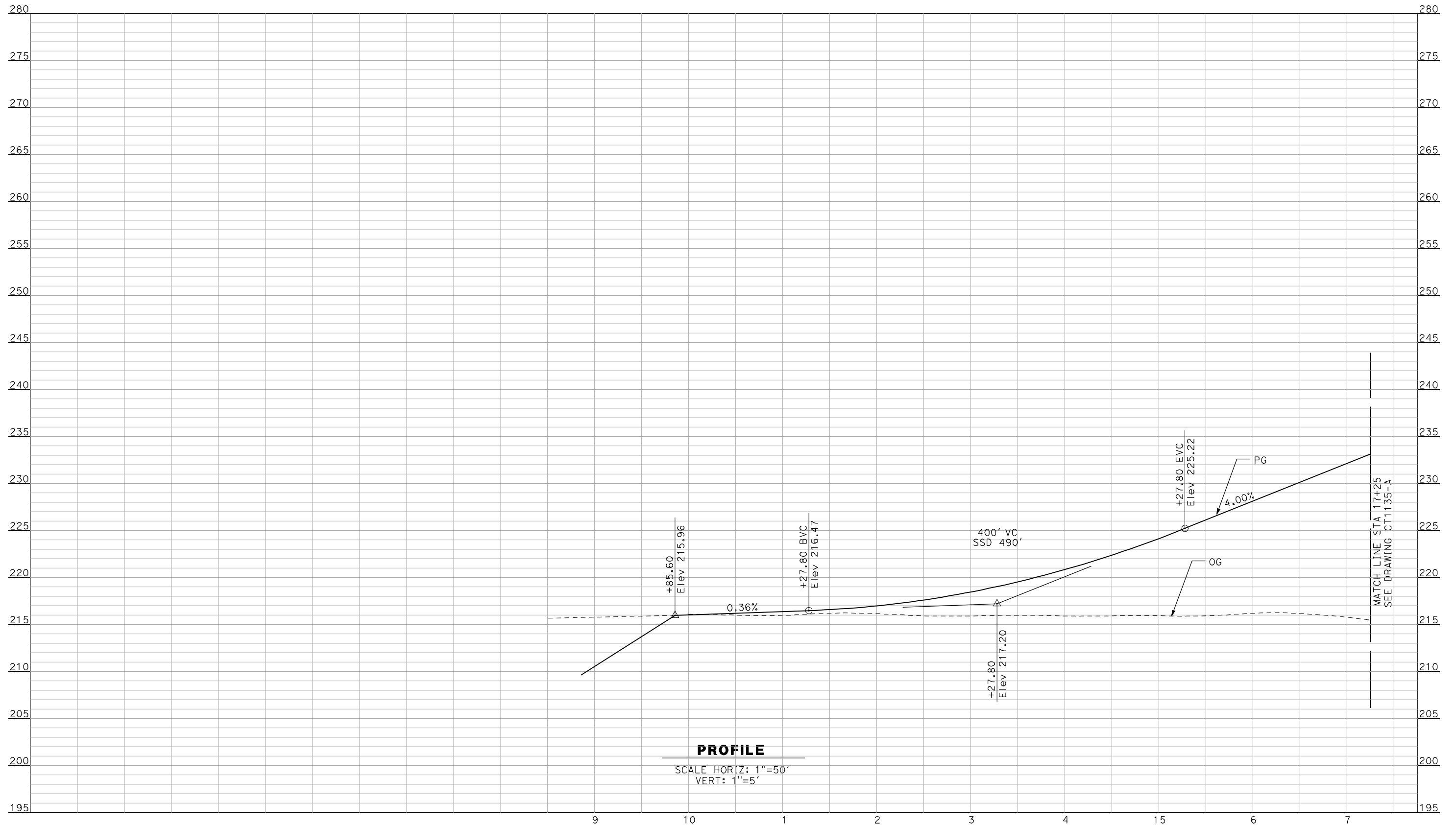
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 15
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT1133-A
SCALE	AS SHOWN
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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A. BOONE
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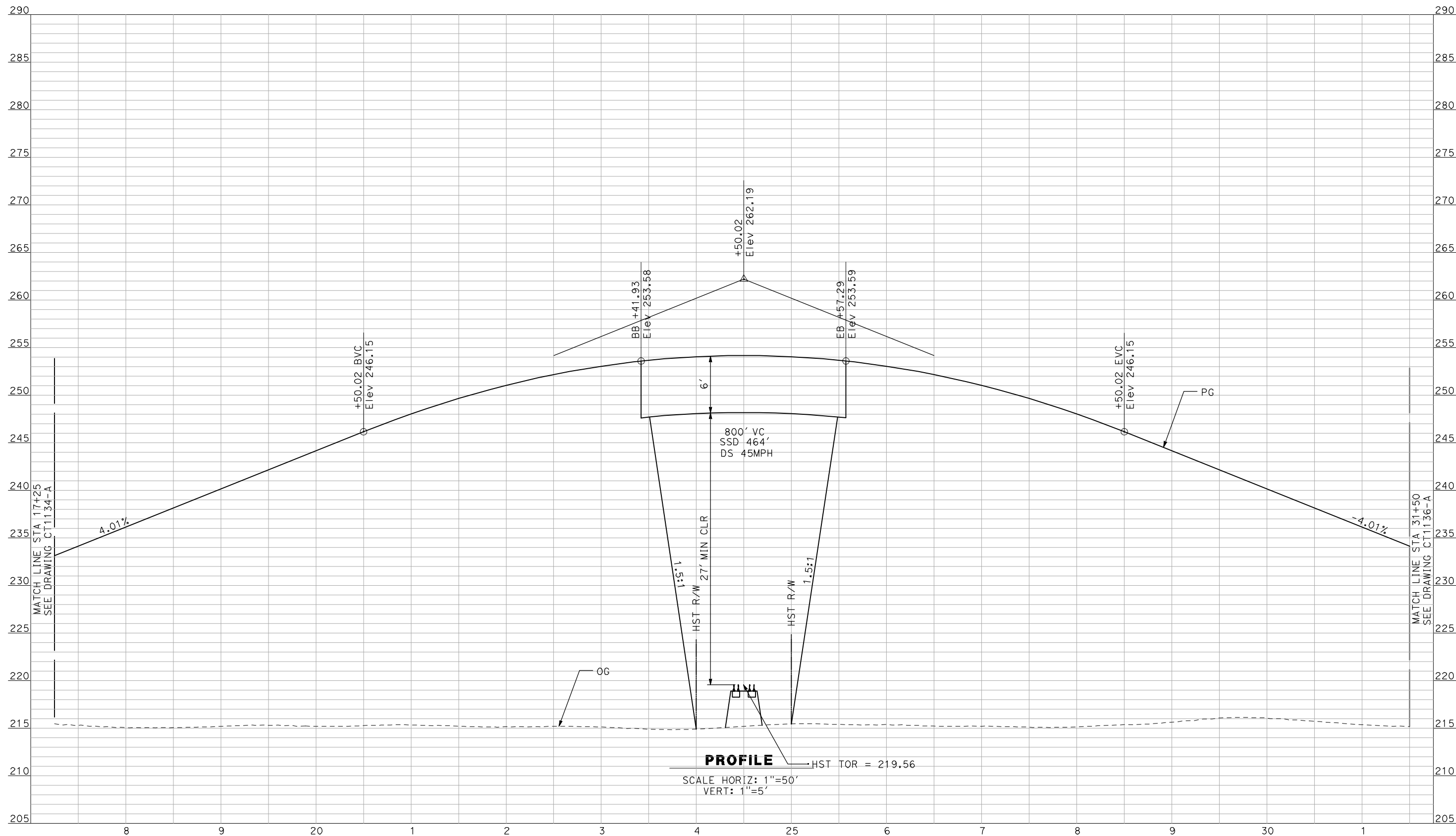


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 14
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1134-A
SCALE
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A. BOONE
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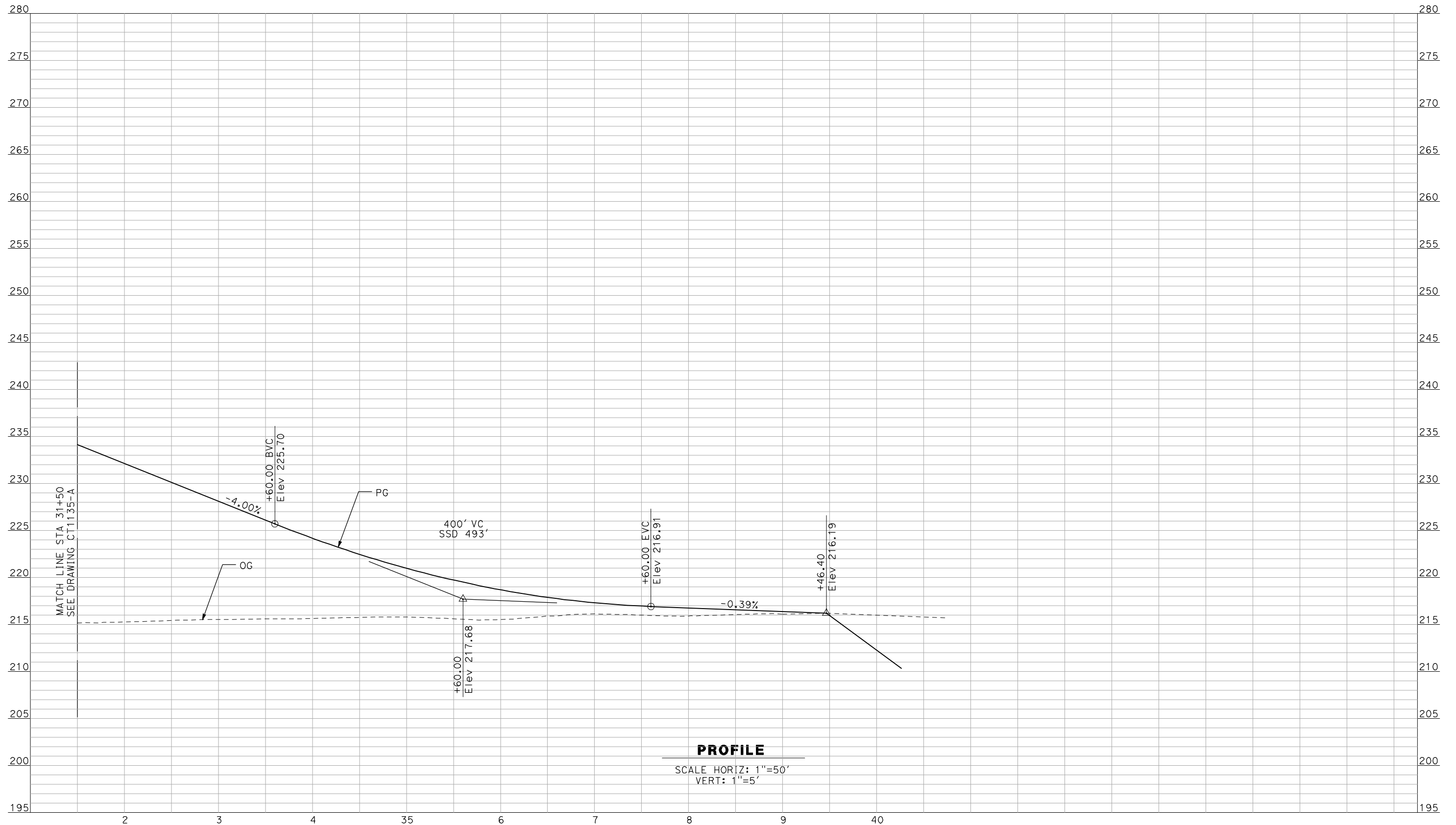
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 14
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1135-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:29:39 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave24\Volume 1A - Ave 24 Wye Grade Separation\Profile\MF-CT-1136-A.DGN



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J. ZANDIAN
 IN CHARGE
A. BOONE
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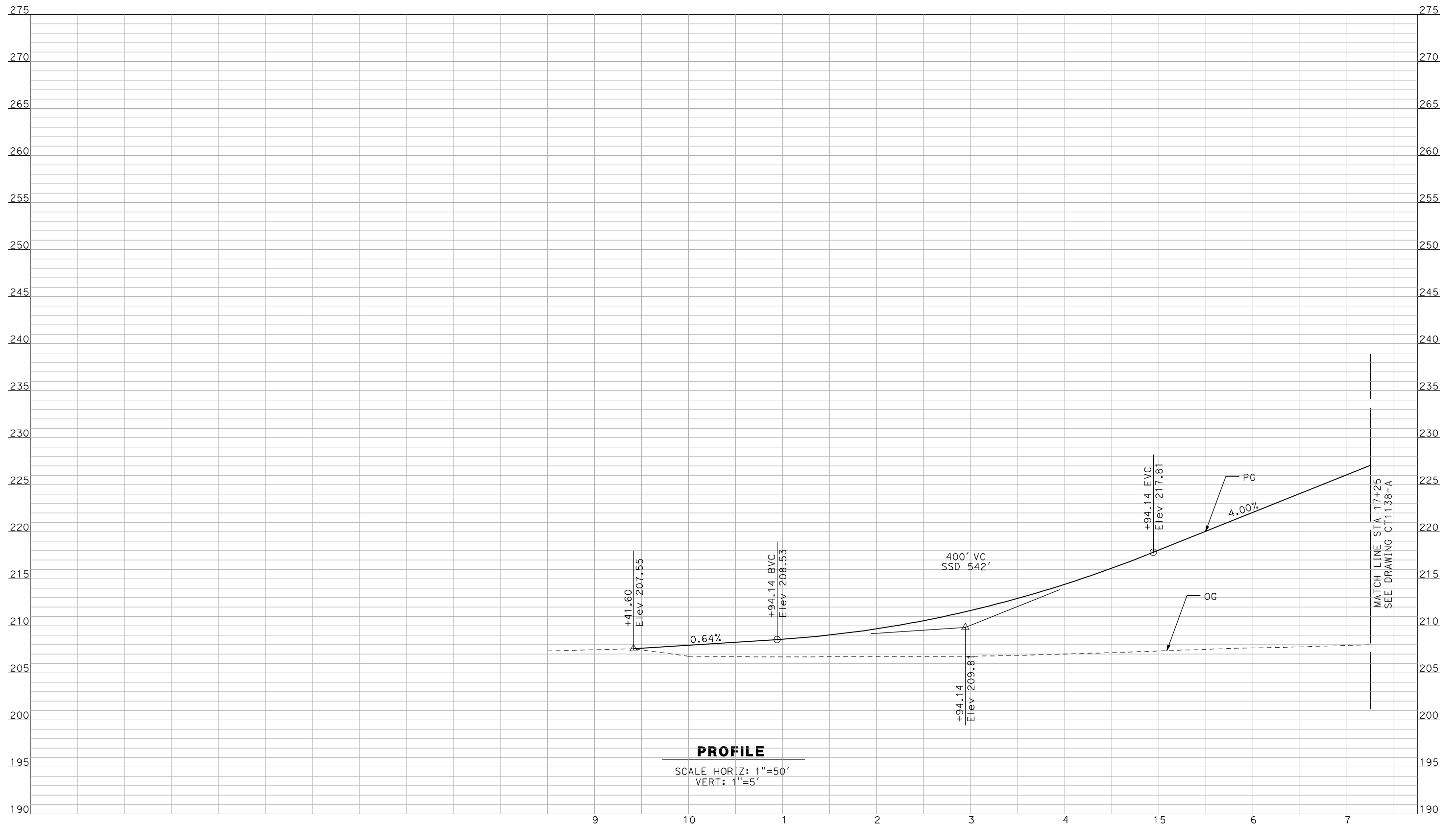
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 14
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1136-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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A. BOONE
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RECORD SET
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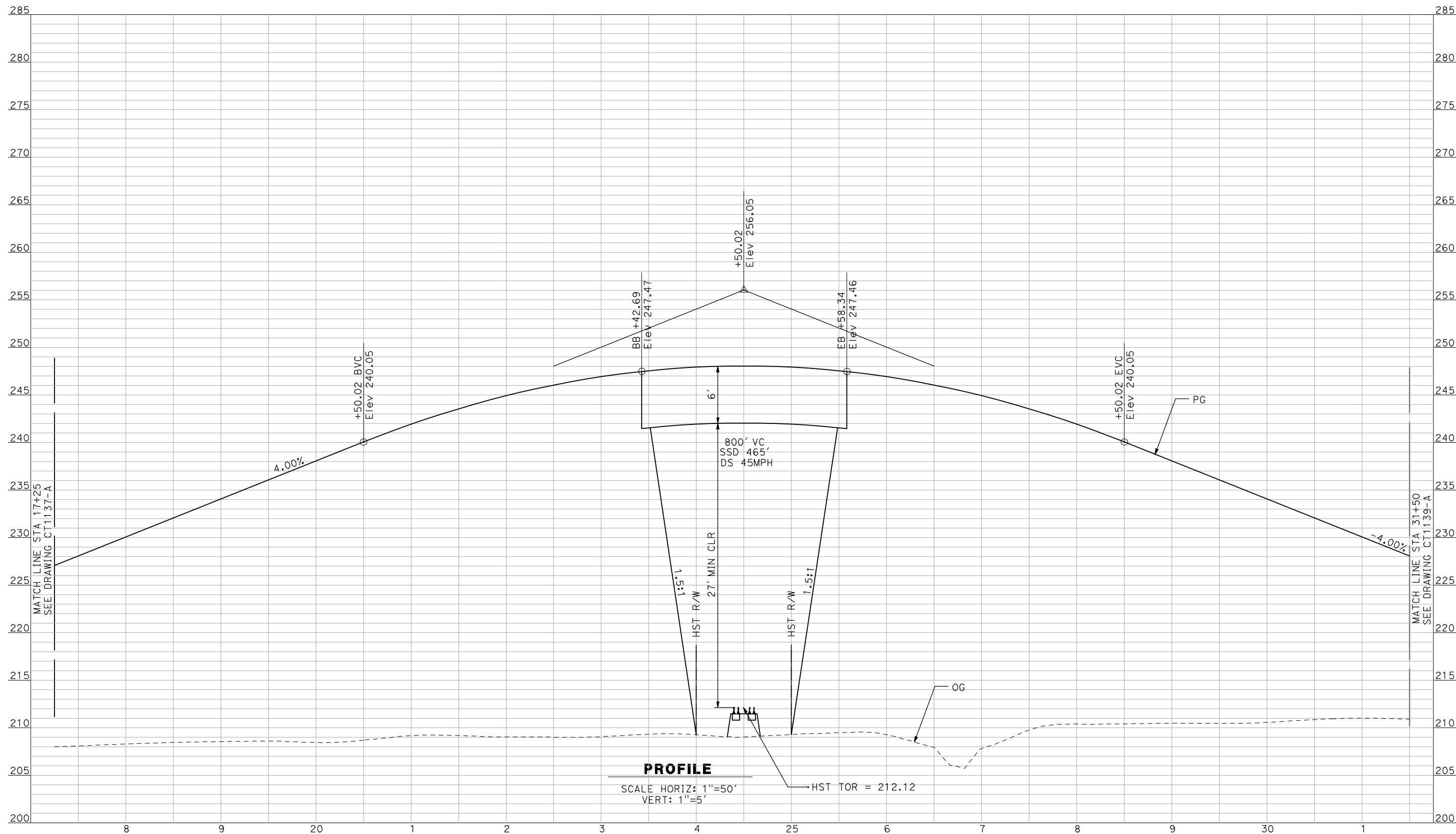
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 13
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1137-A
 SCALE
AS SHOWN
 SHEET NO.
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 J. ZANDIAN

IN CHARGE
 A. BOONE

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 13
 PROFILE
 SHEET 2 OF 3

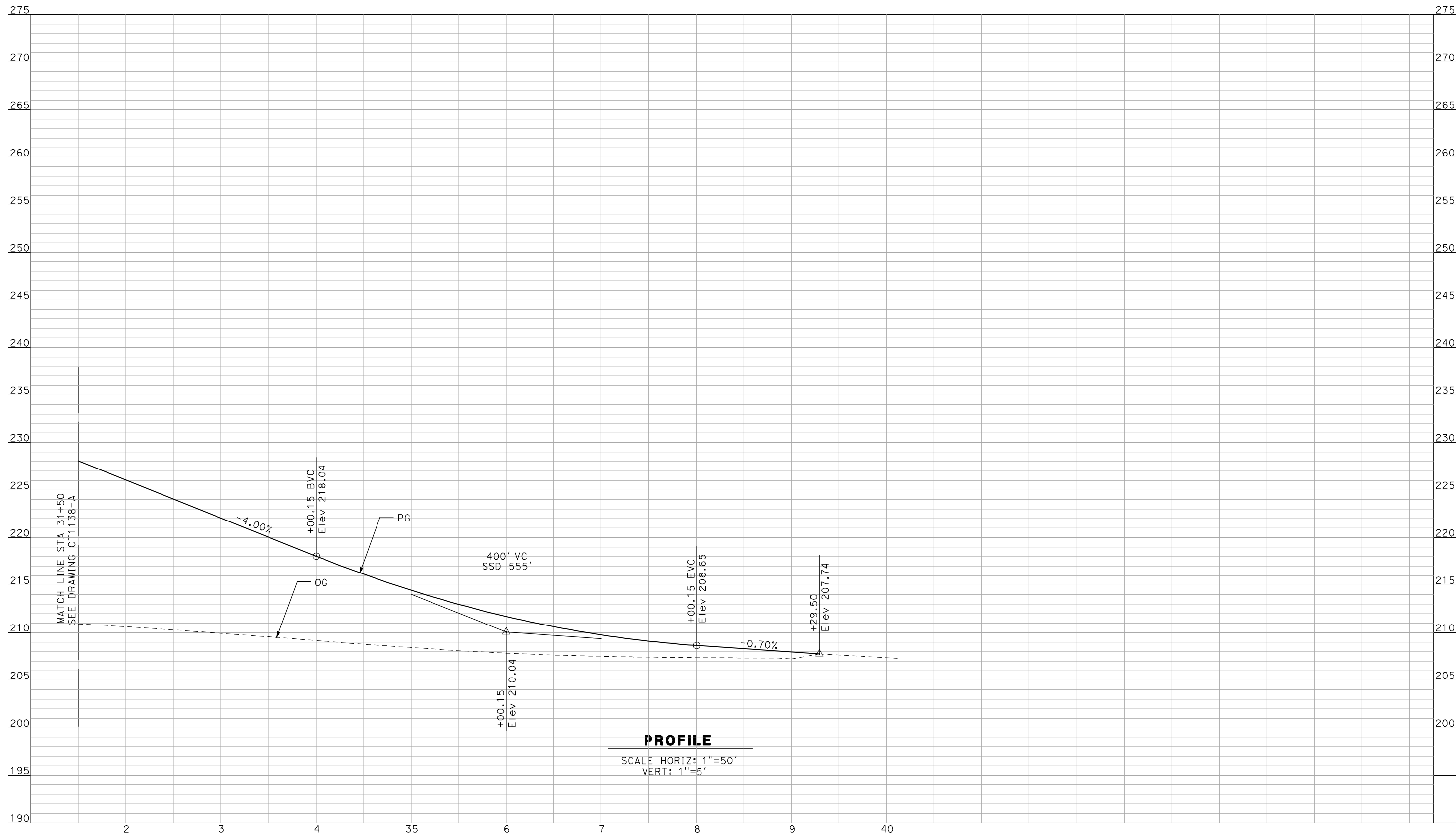
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DRAWING NO.
 CT1138-A

SCALE
 AS SHOWN

SHEET NO.
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 A. BOONE
 DATE
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RECORD SET
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SUBMITTAL

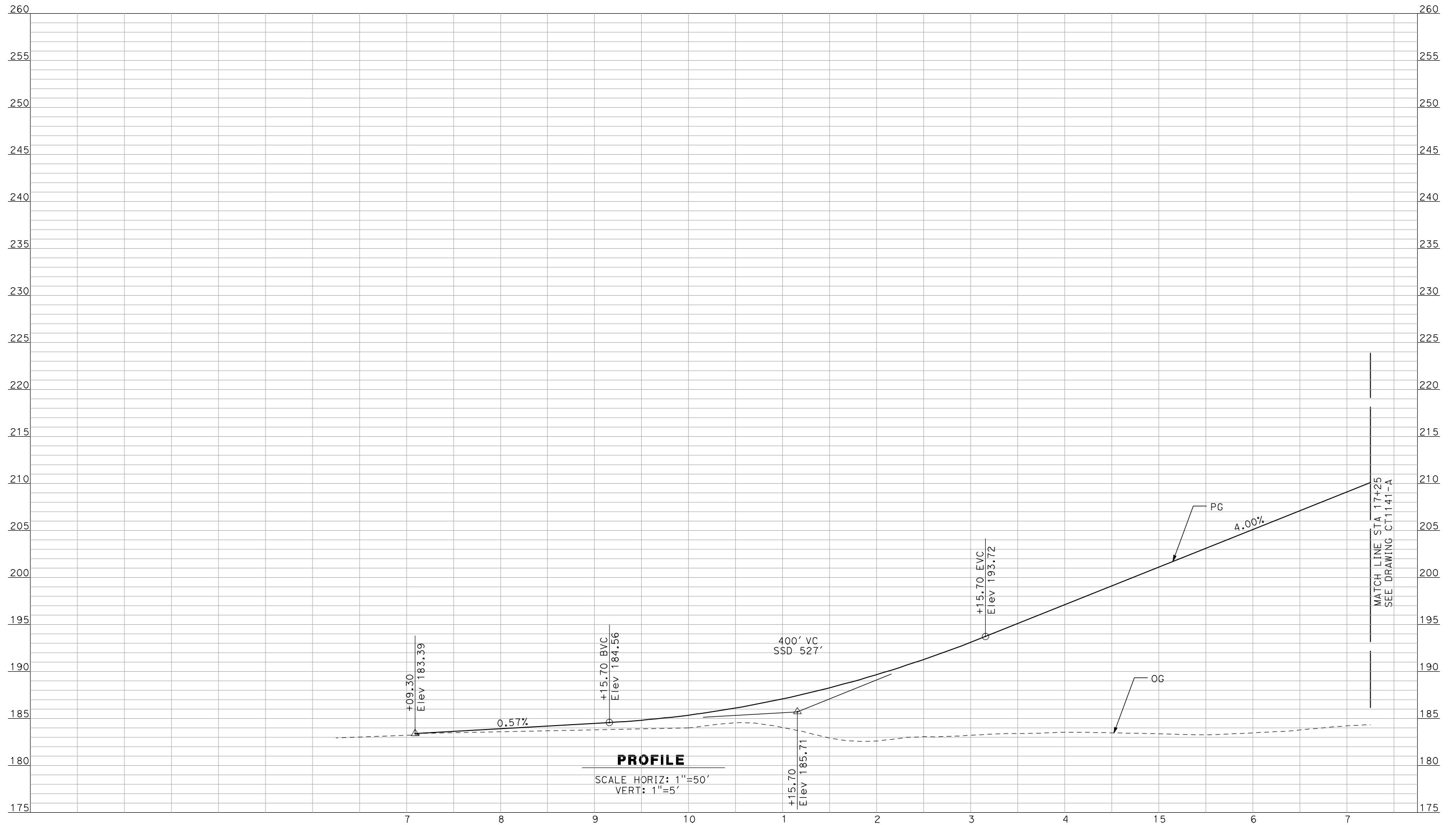
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 13
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1139-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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A. BOONE
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SUBMITTAL

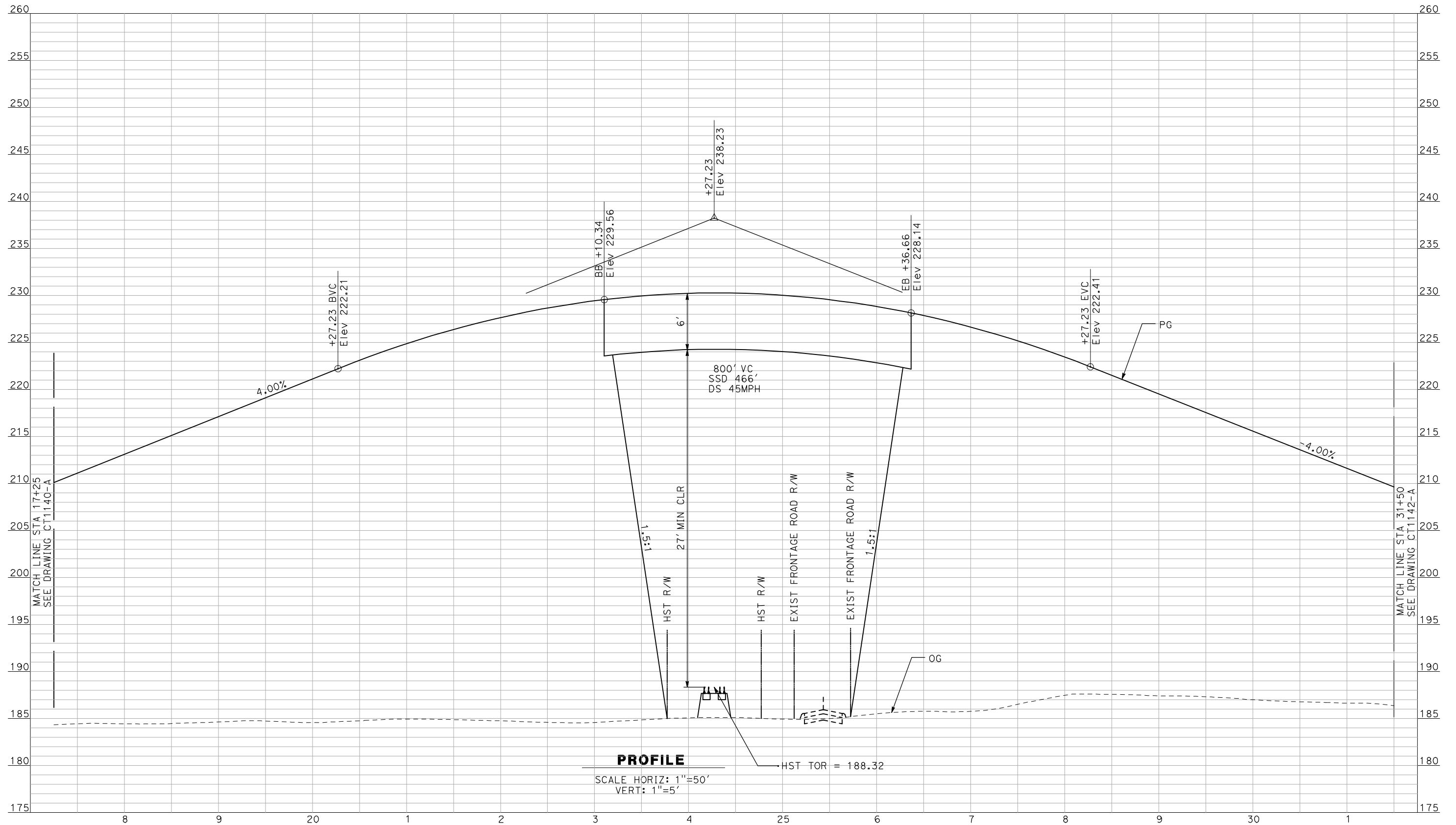
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 10
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1140-A
 SCALE
AS SHOWN
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OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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J. ZANDIAN
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A. BOONE
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RECORD SET
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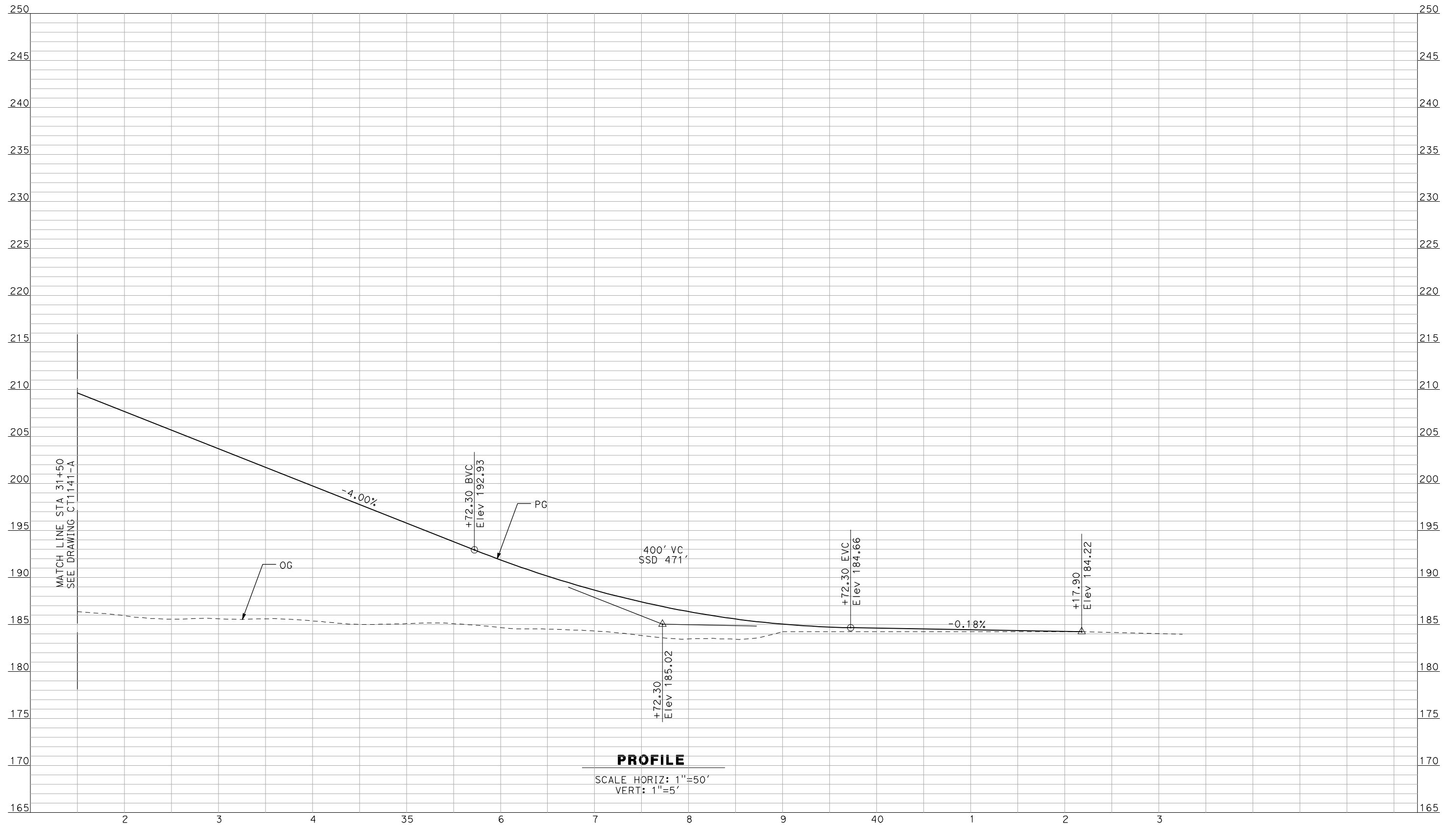
AECOM
 Technical Services, Inc.
 2020 L Street, Suite 300
 Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 10
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1141-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 F. DEMARCO
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 A. BOONE
 DATE
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RECORD SET
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SUBMITTAL

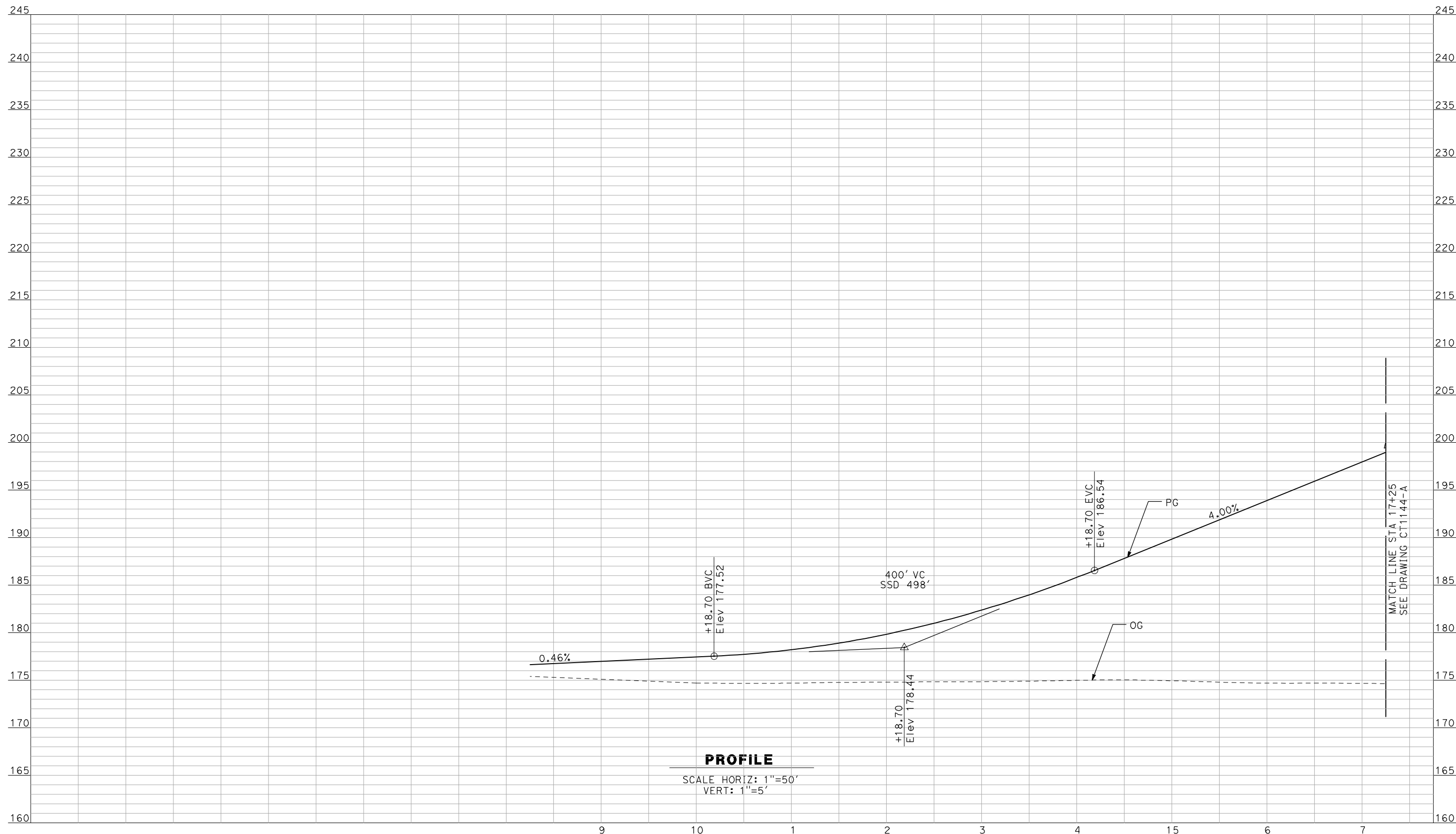
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 10
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1142-A
 SCALE
 AS SHOWN
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 ### OF ###

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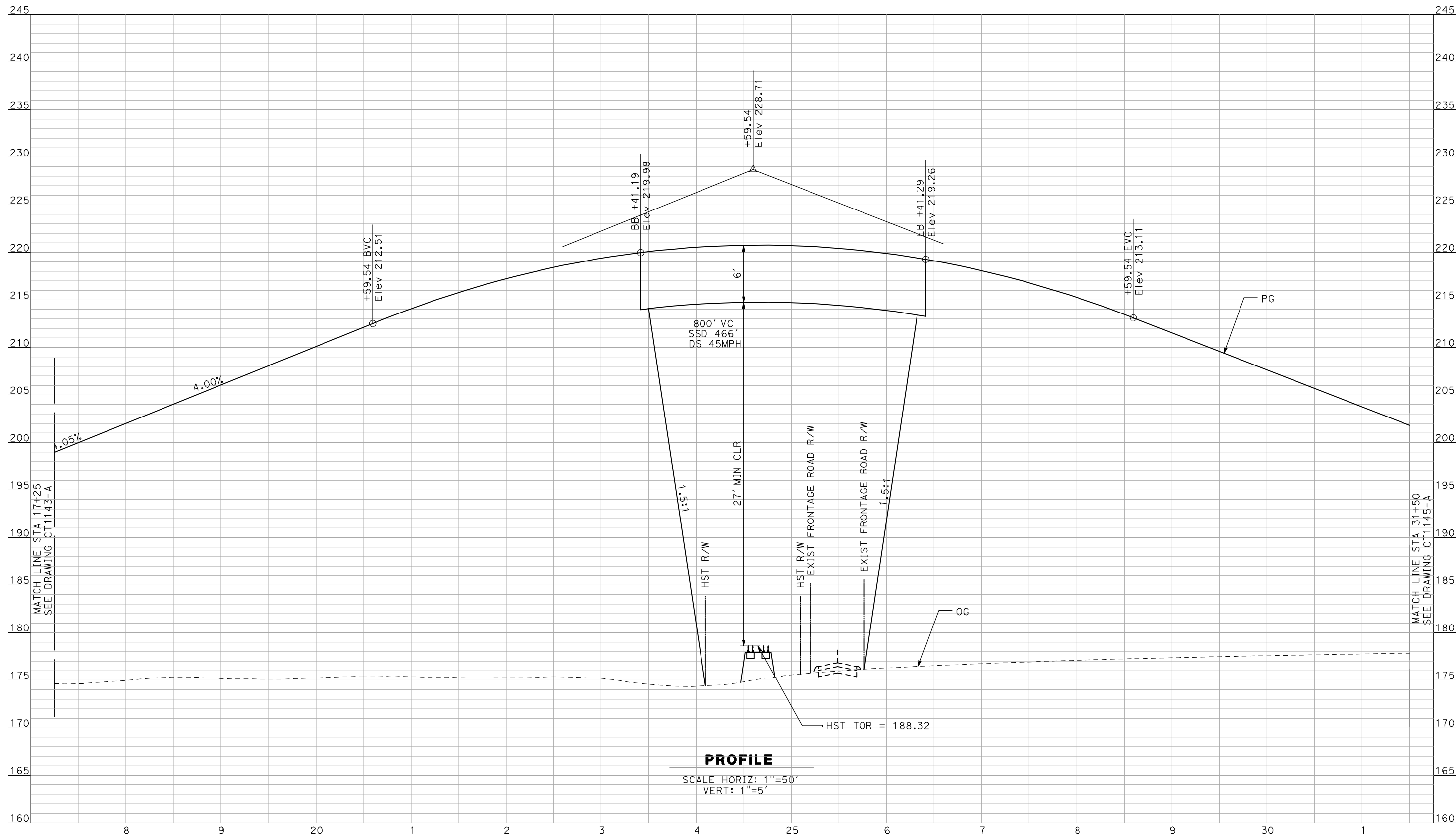
NOT FOR
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 9
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1143-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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F. DEMARCO
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
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RECORD SET
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SUBMITTAL

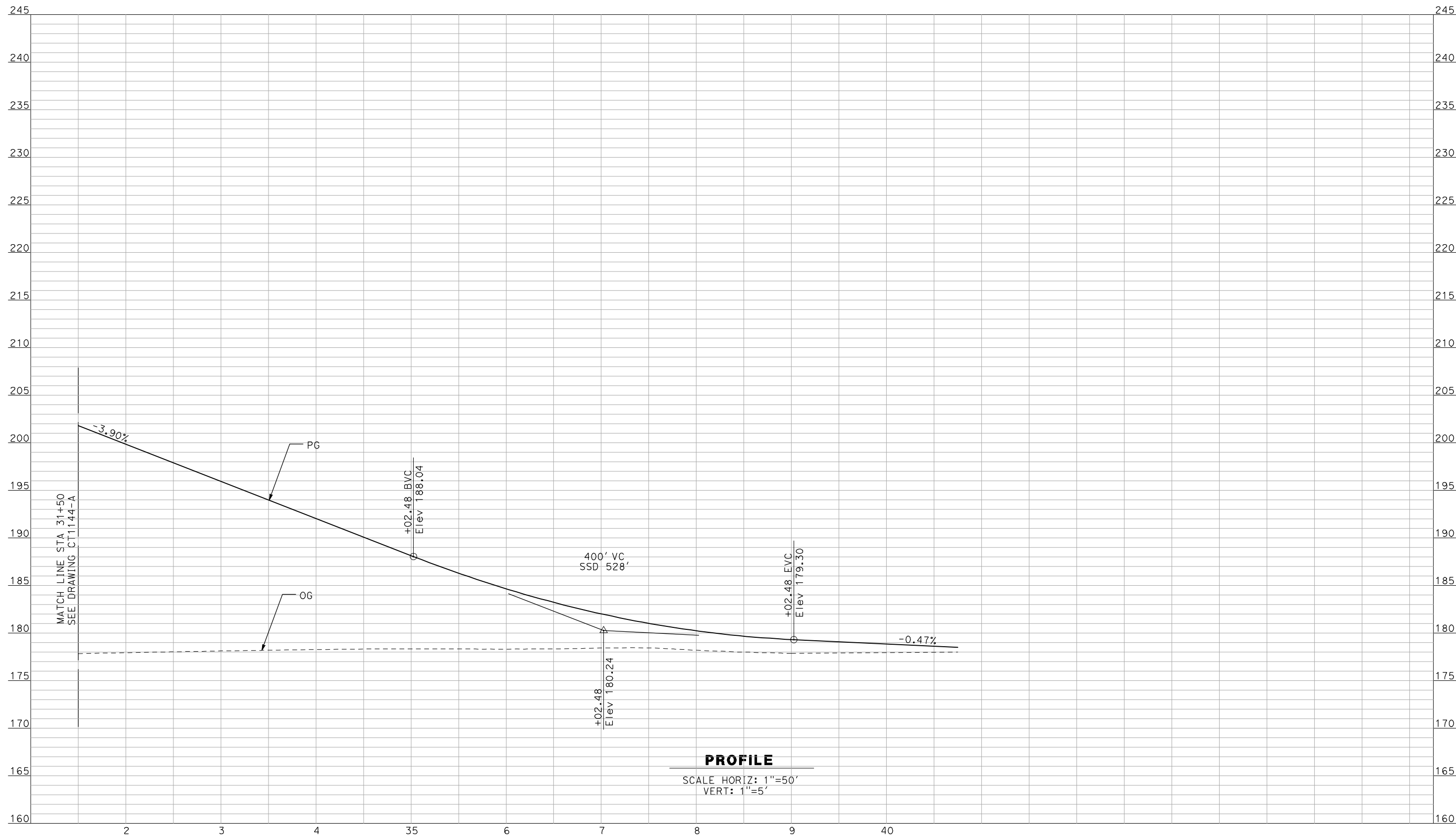
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 9
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1144-A
SCALE
AS SHOWN
SHEET NO.
OF

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 F. DEMARCO
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 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
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SUBMITTAL

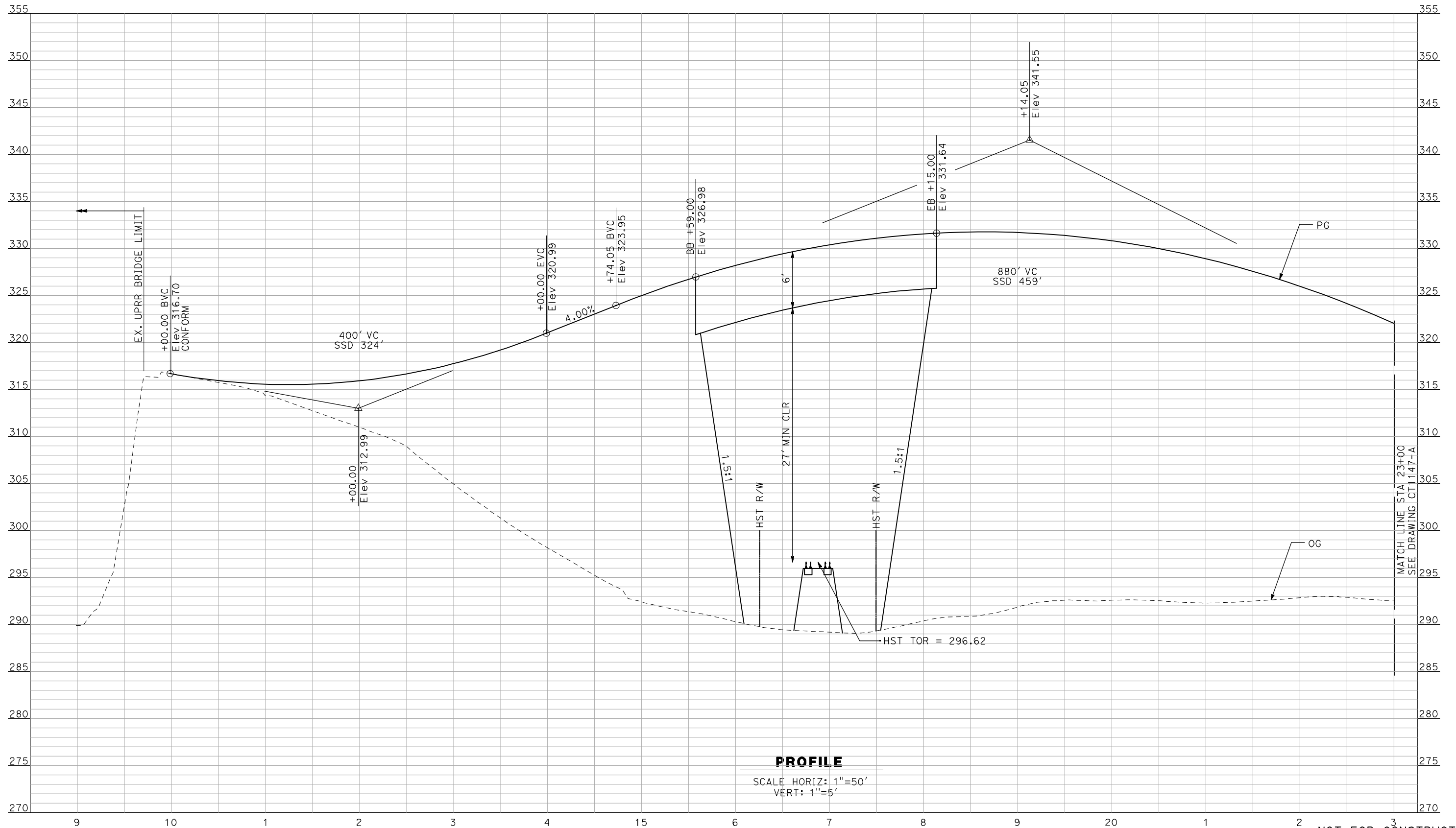
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - ROAD 9
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1145-A
 SCALE
 AS SHOWN
 SHEET NO.
 OF ###

4/29/2011 2:35:13 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\ROADWAY\Cost_Reduction\Grade_Sep_Profile\WF-CT-1146-A.dgn



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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DRAWN BY
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CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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SUBMITTAL**

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CONSTRUCTION**

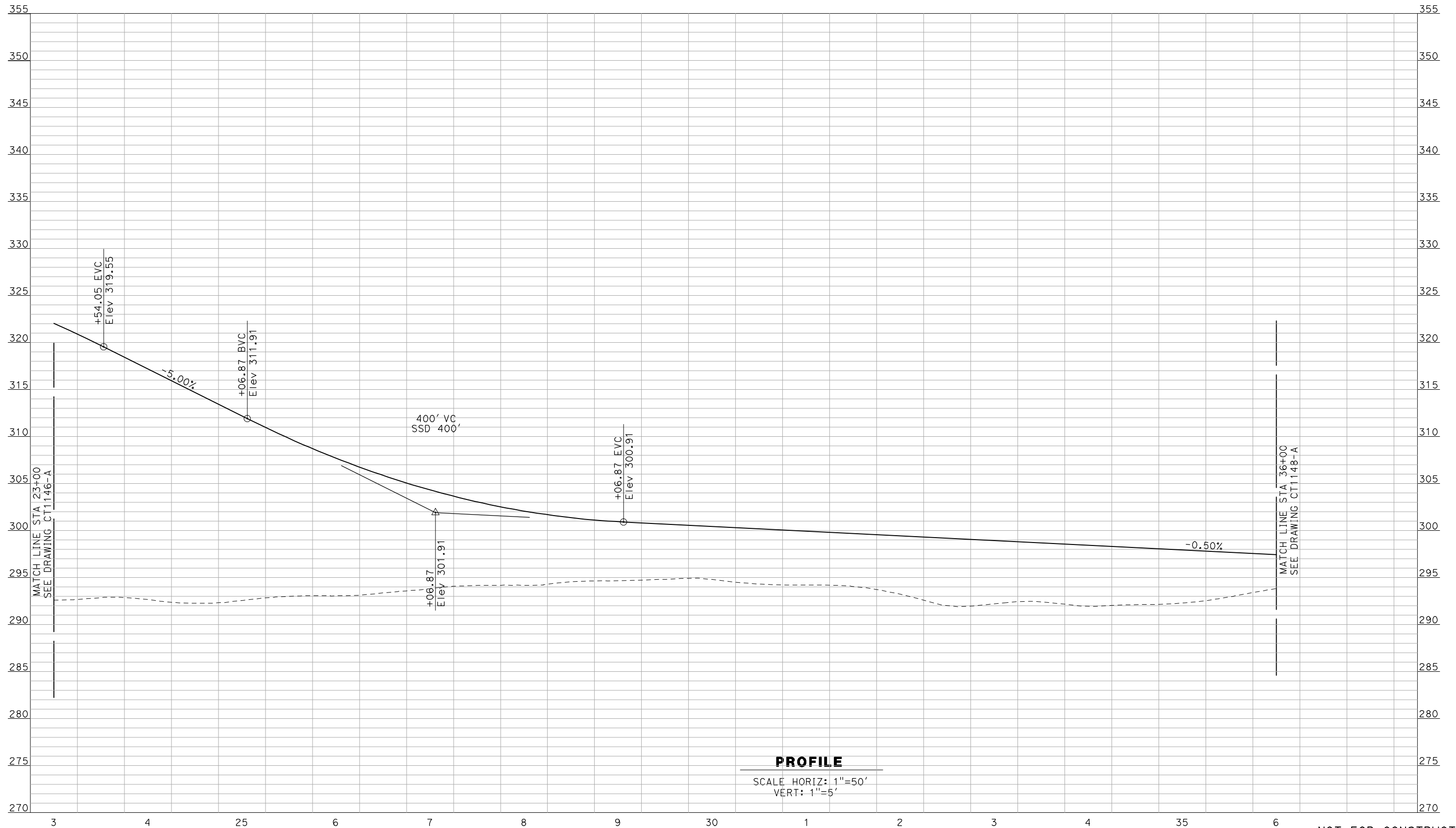


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 7
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1146-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

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SUBMITTAL**

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CONSTRUCTION**

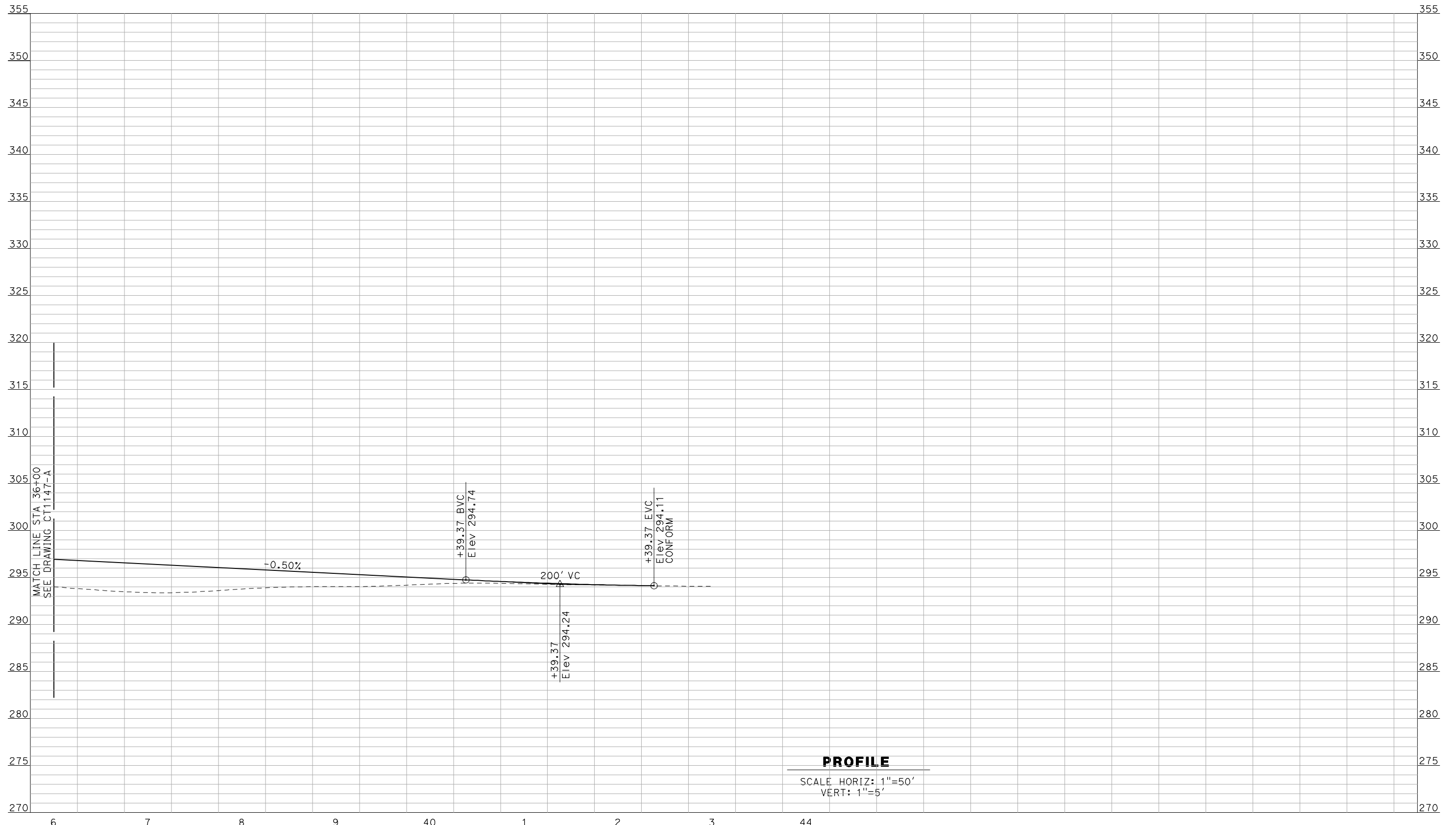


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 7
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1147-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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CHECKED BY
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IN CHARGE
A. BOONE
DATE
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CONSTRUCTION**

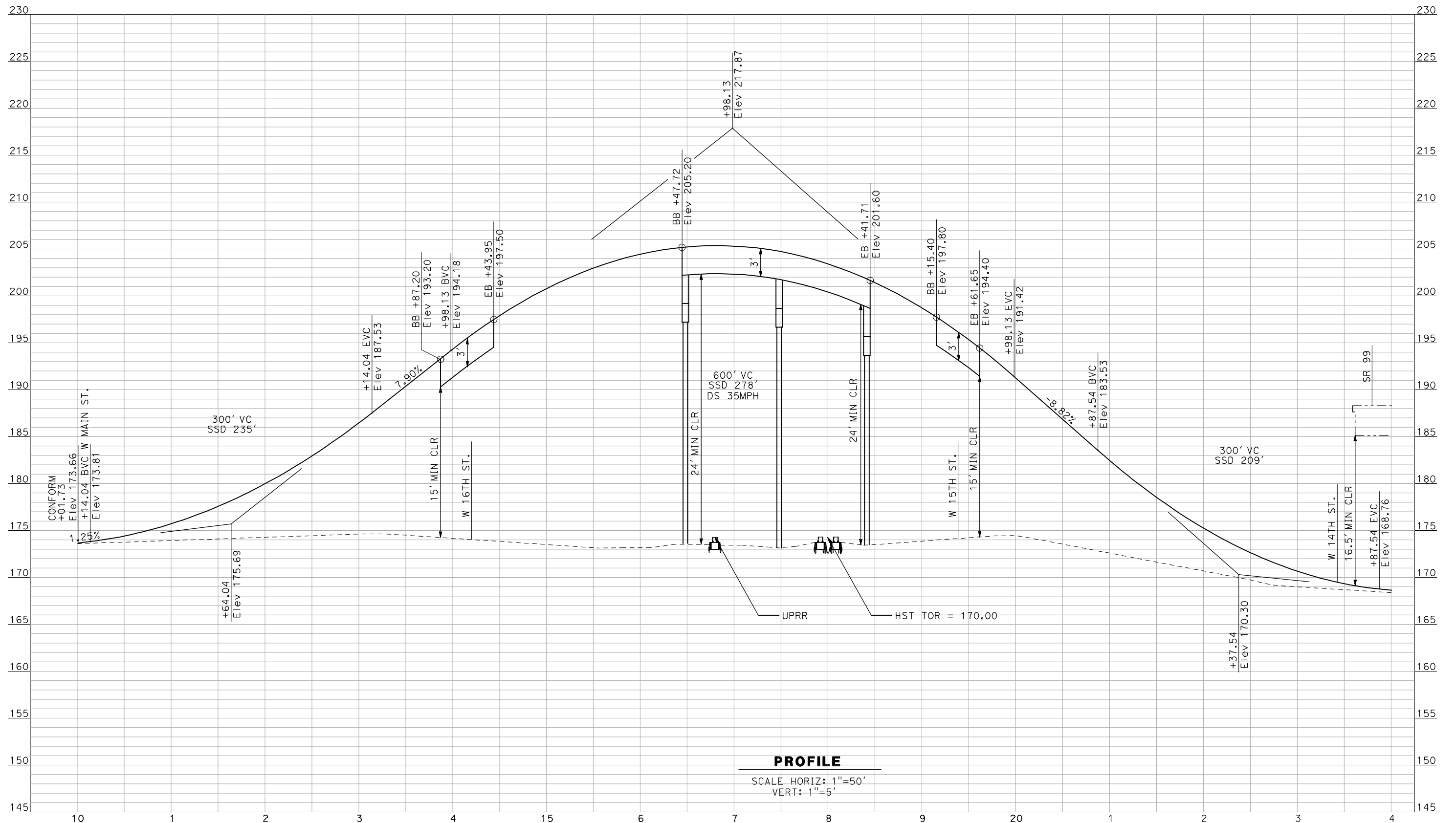


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 7
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1148-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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A. BOONE
 DATE
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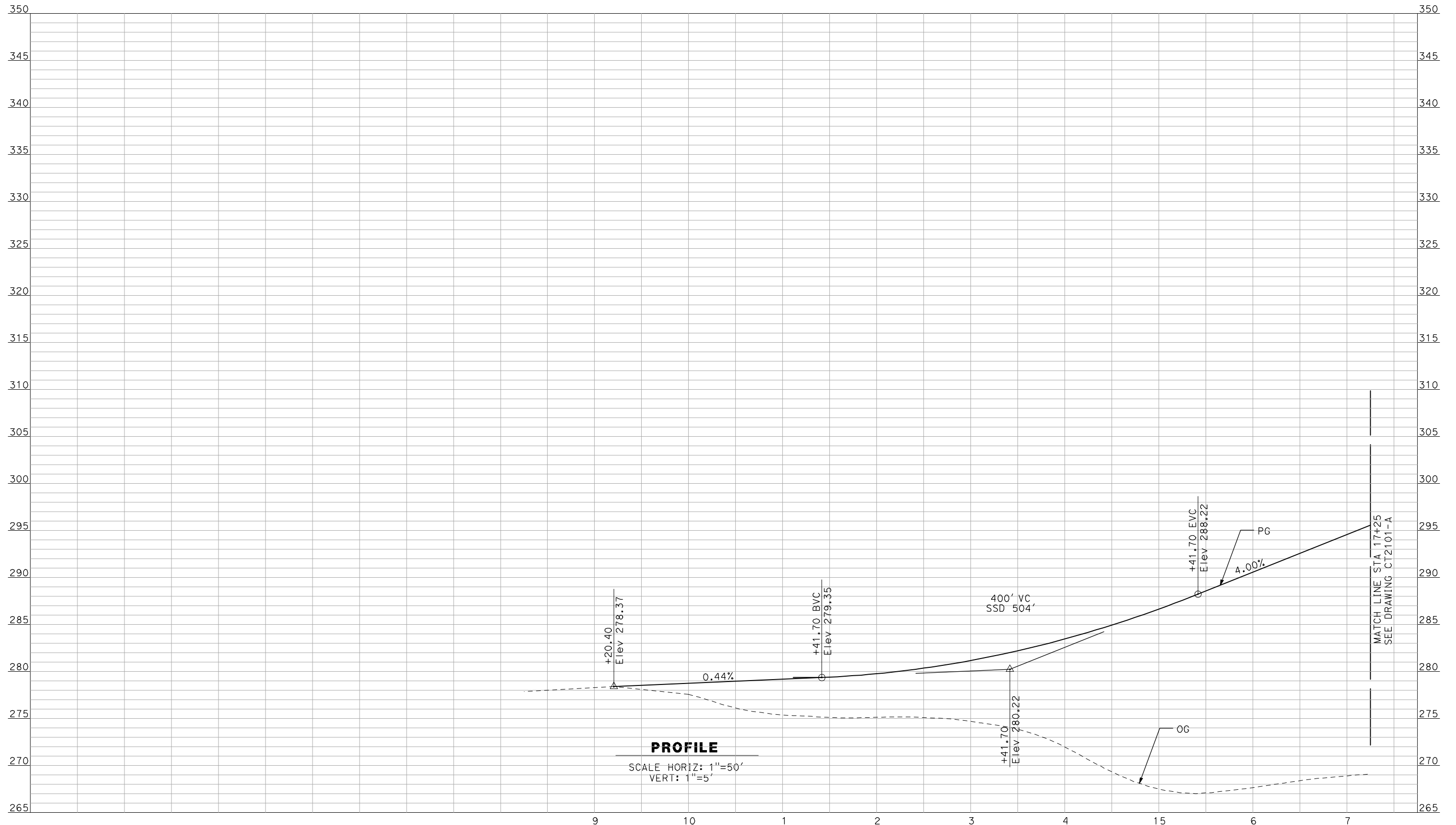
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - G Street
 PROFILE
 SHEET 1 OF 1

CONTRACT NO.
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CT1149-A
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AS SHOWN
 SHEET NO.
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 IN CHARGE
 A. BOONE
 DATE
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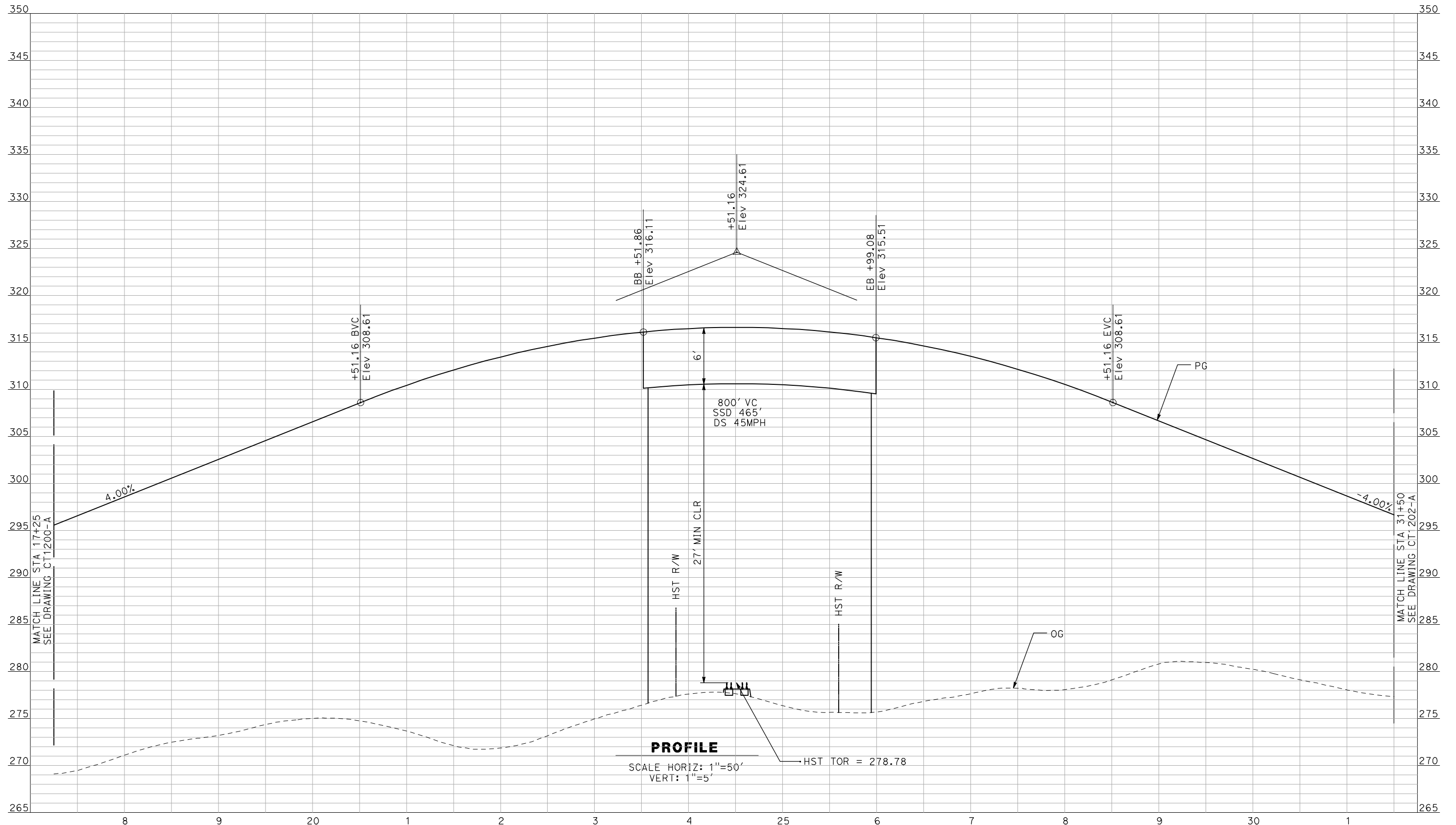
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. WHITE ROCK RD
PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1200-A
 SCALE
 AS SHOWN
 SHEET NO.
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'
 HST TOR = 278.78

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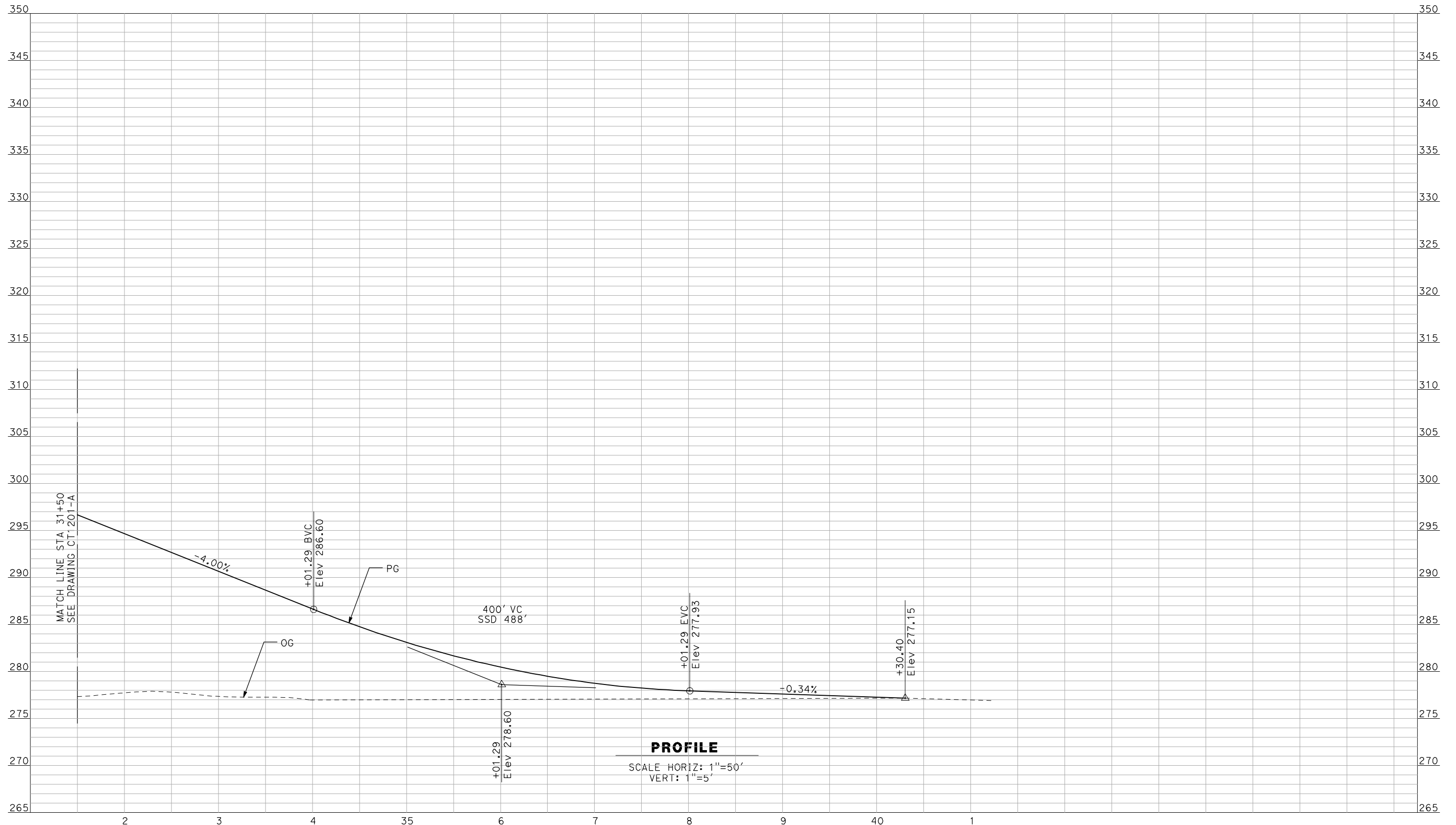
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. WHITE ROCK RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1201-A
 SCALE
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 SHEET NO.
 ### OF ###

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
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SUBMITTAL

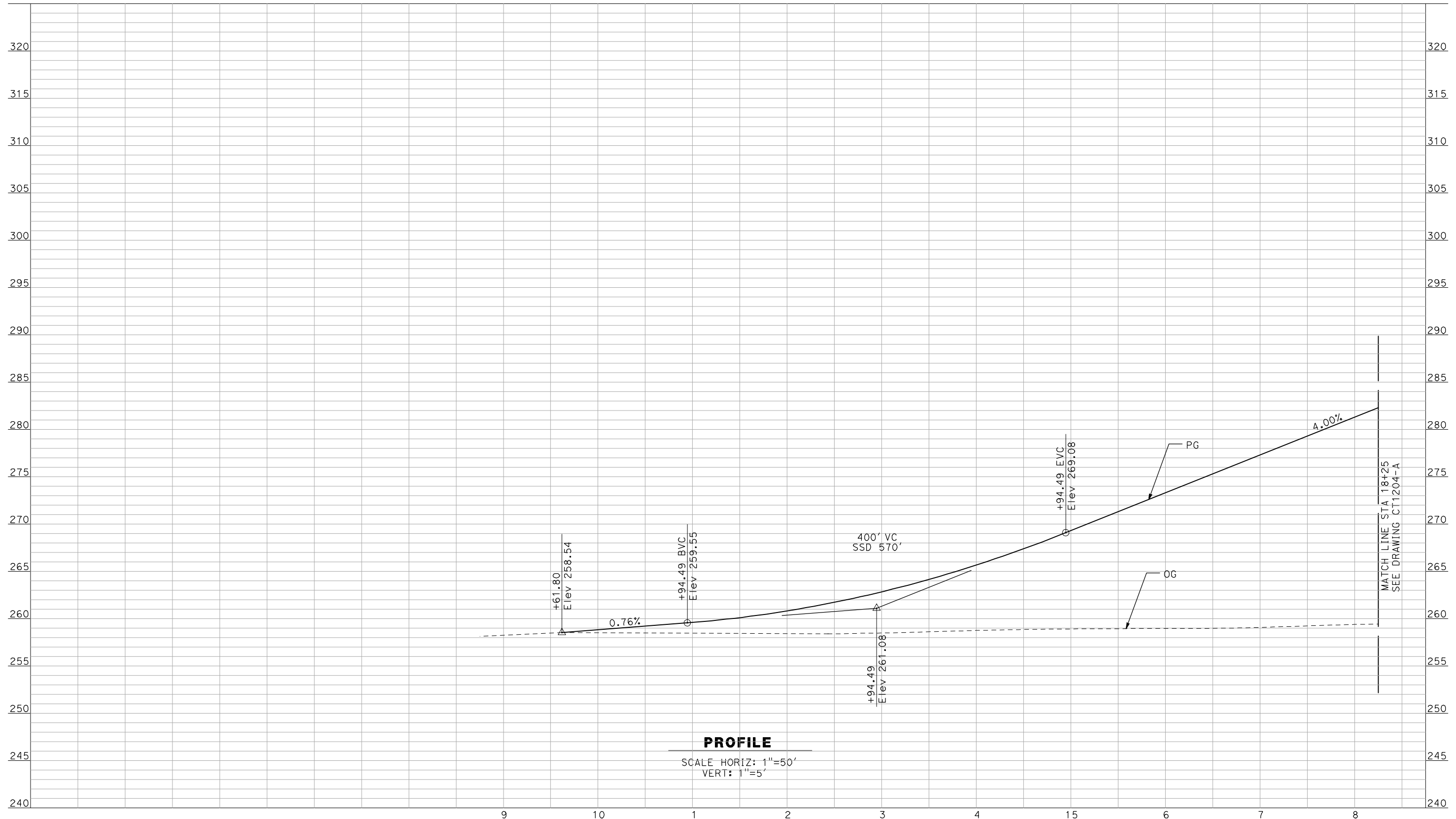
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. WHITE ROCK RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1202-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
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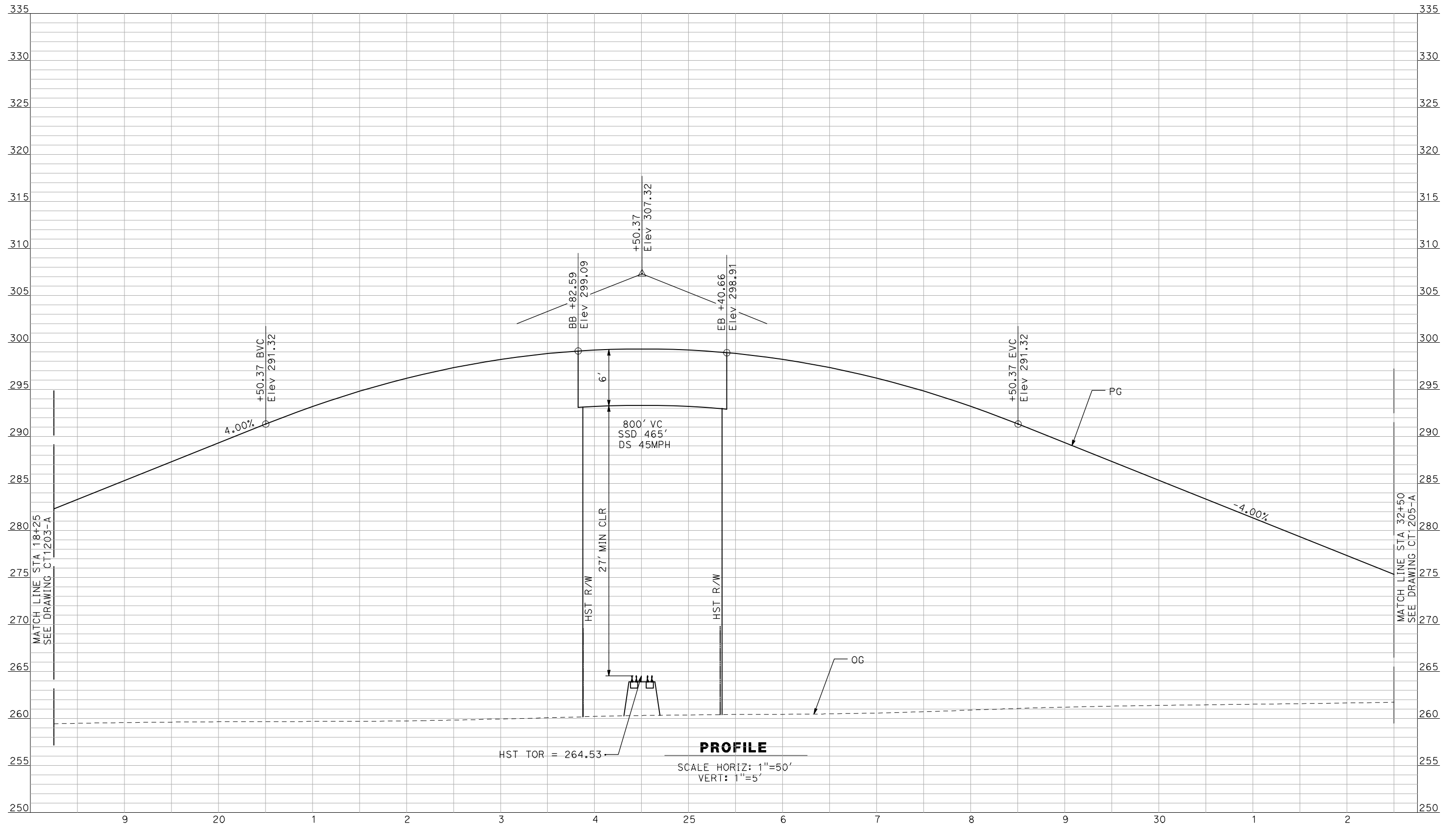
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1203-A
 SCALE
 AS SHOWN
 SHEET NO.
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
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RECORD SET
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SUBMITTAL

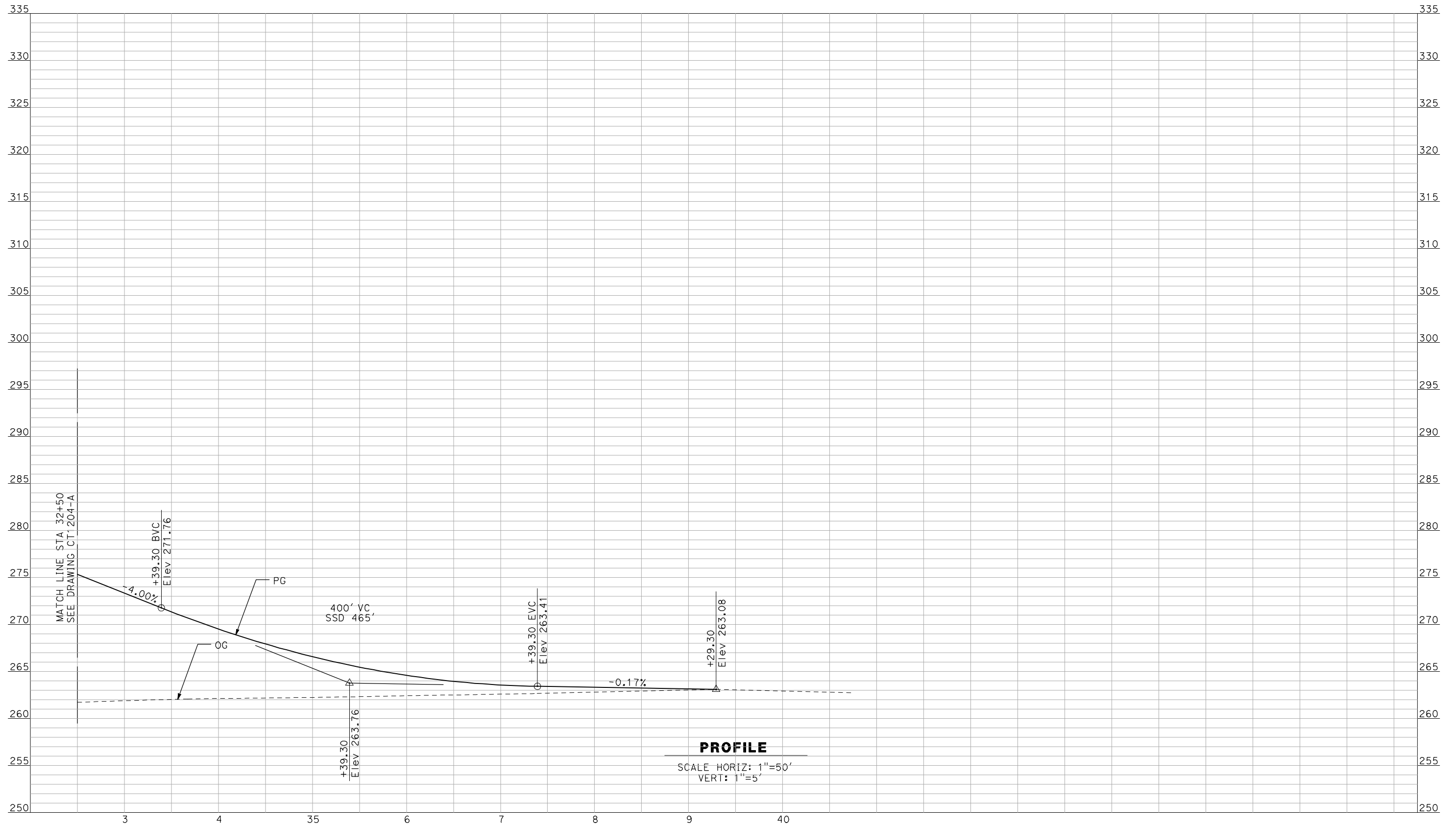
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1204-A
 SCALE
 AS SHOWN
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A. BOONE
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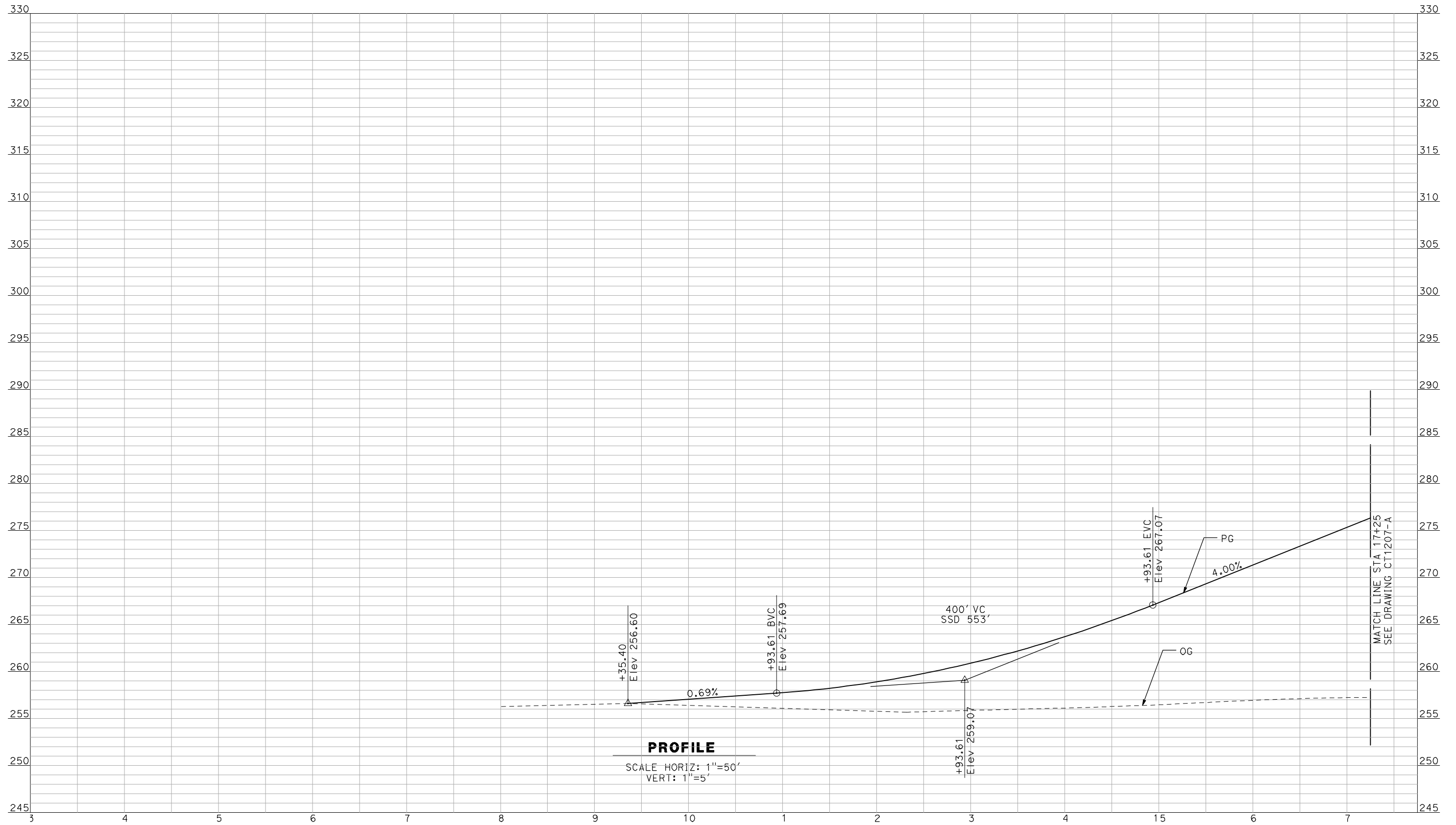
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1205-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
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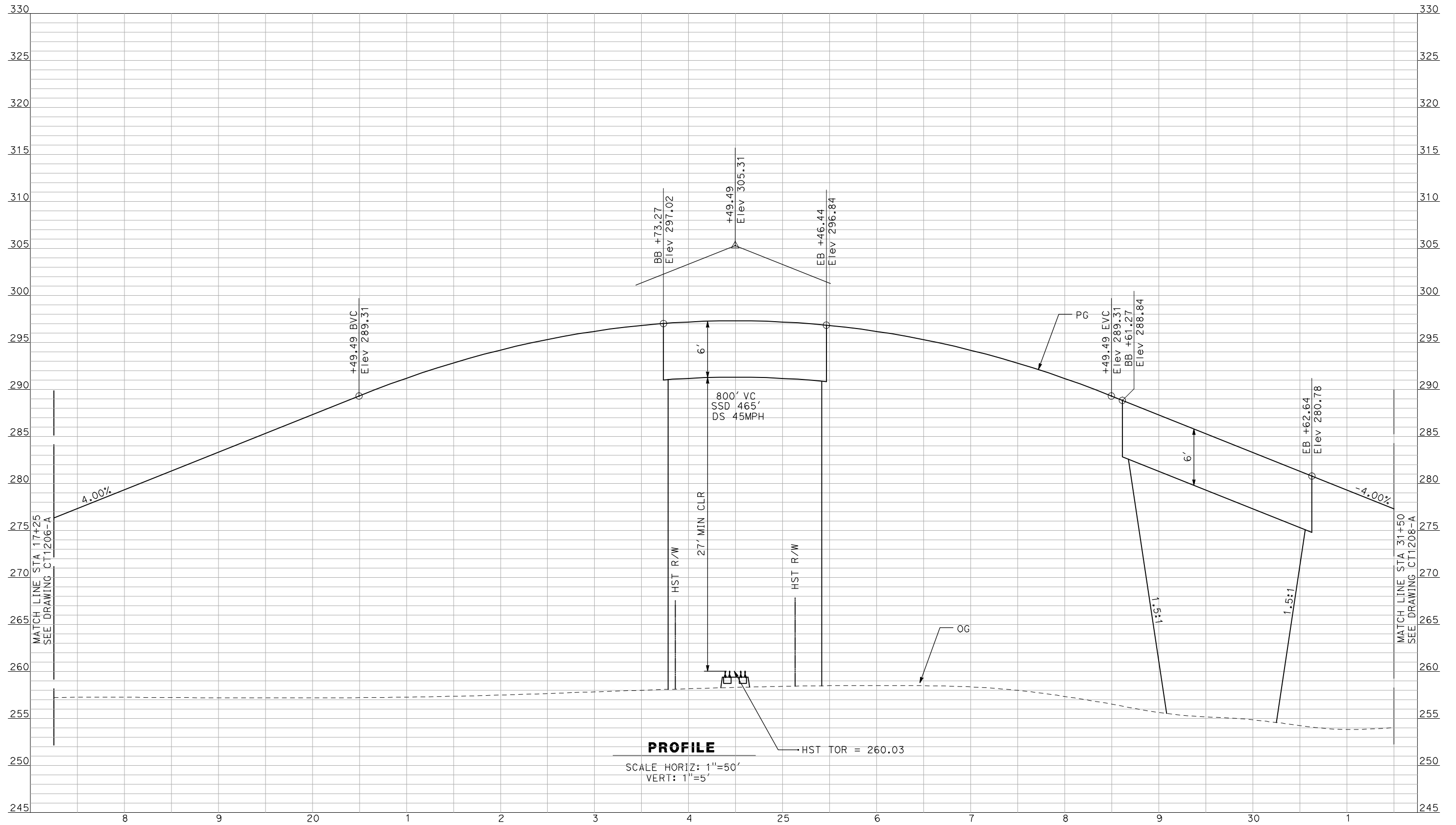
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - FRESNO RD
PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
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CT1206-A
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - FRESNO RD
 PROFILE
 SHEET 2 OF 3

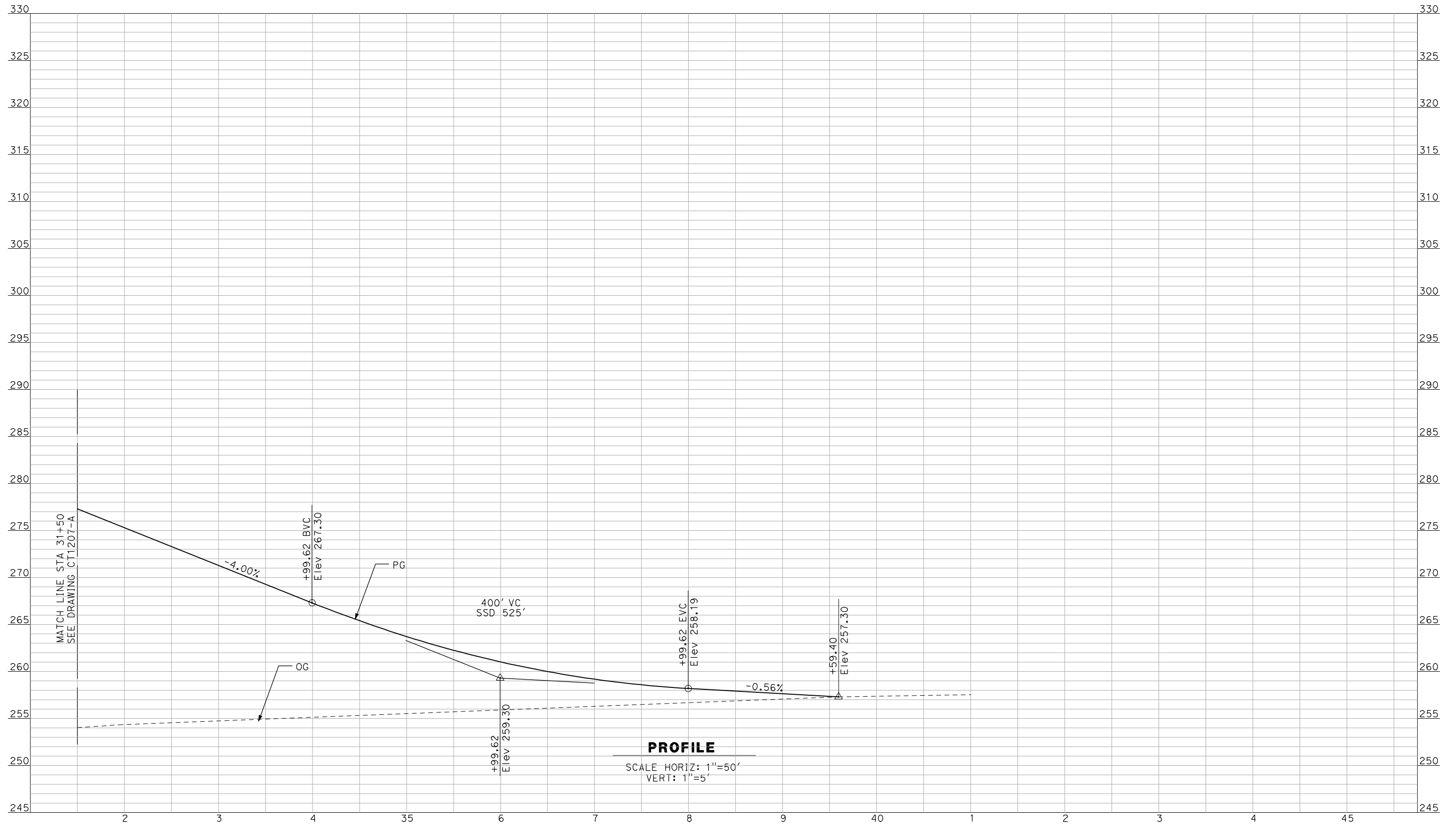
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DRAWING NO.
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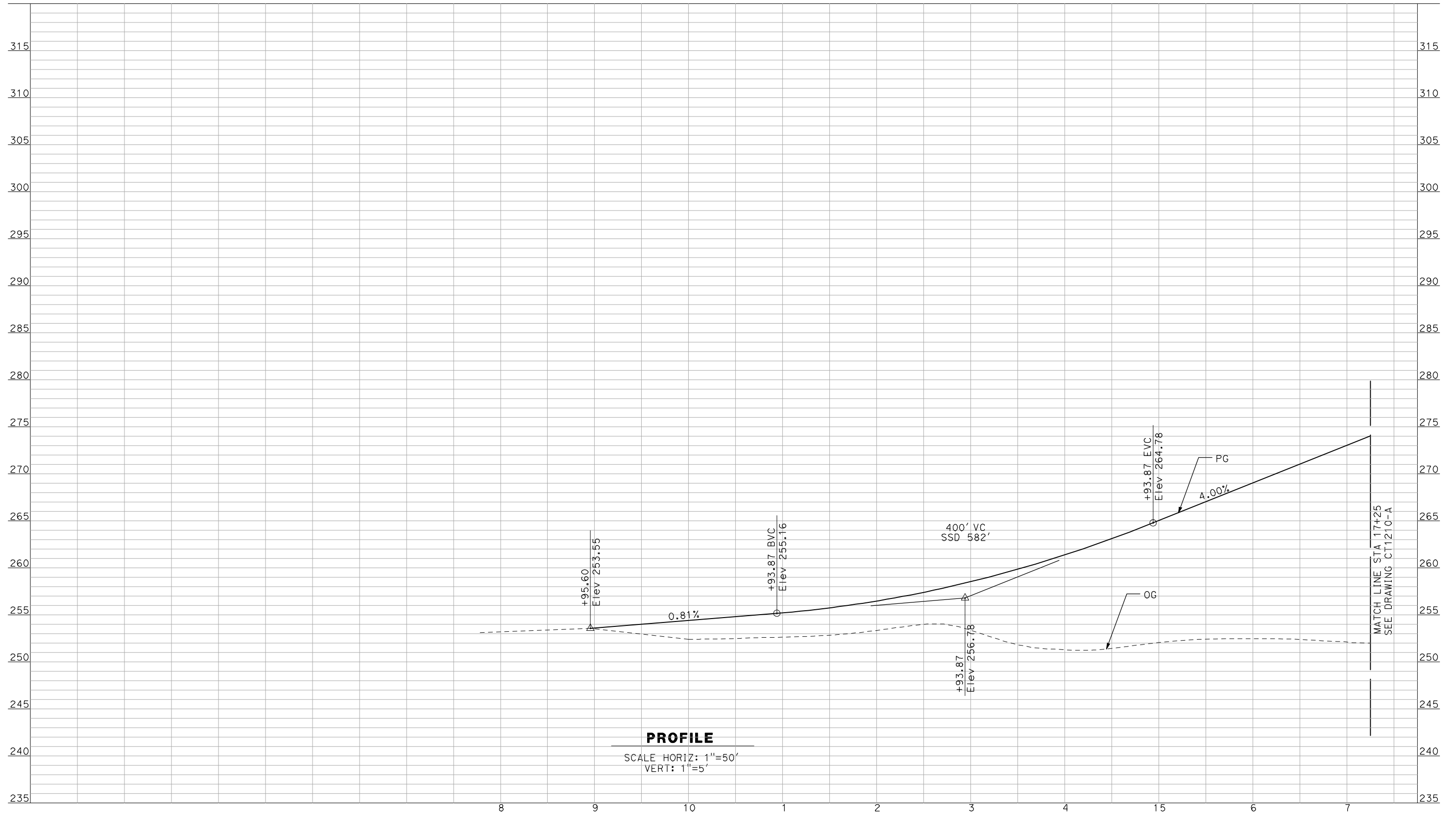
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - FRESNO RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
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CT1208-A
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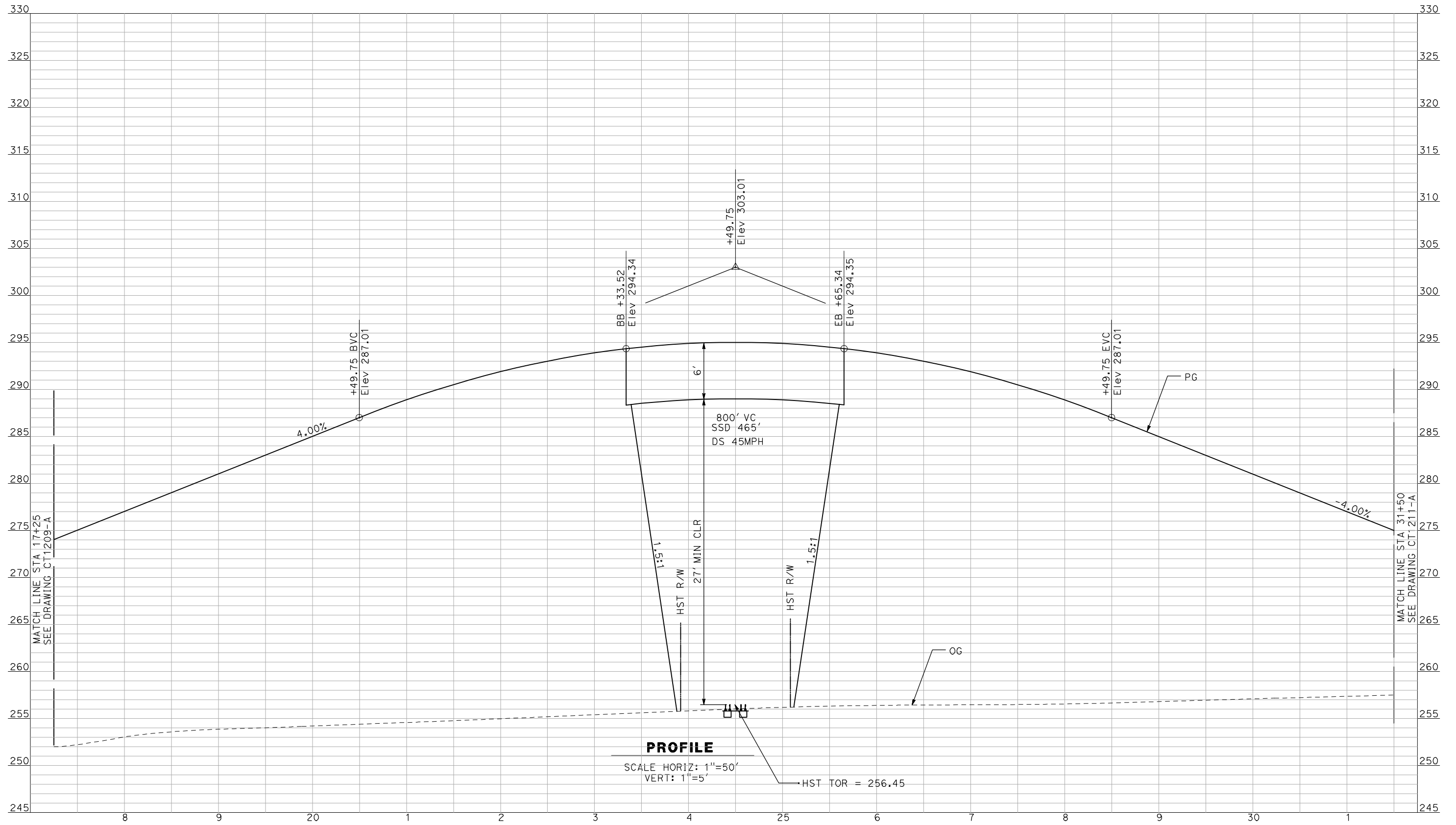
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - CUNNINGHAM RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
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 DRAWING NO.
CT1209-A
 SCALE
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'
 HST TOR = 256.45

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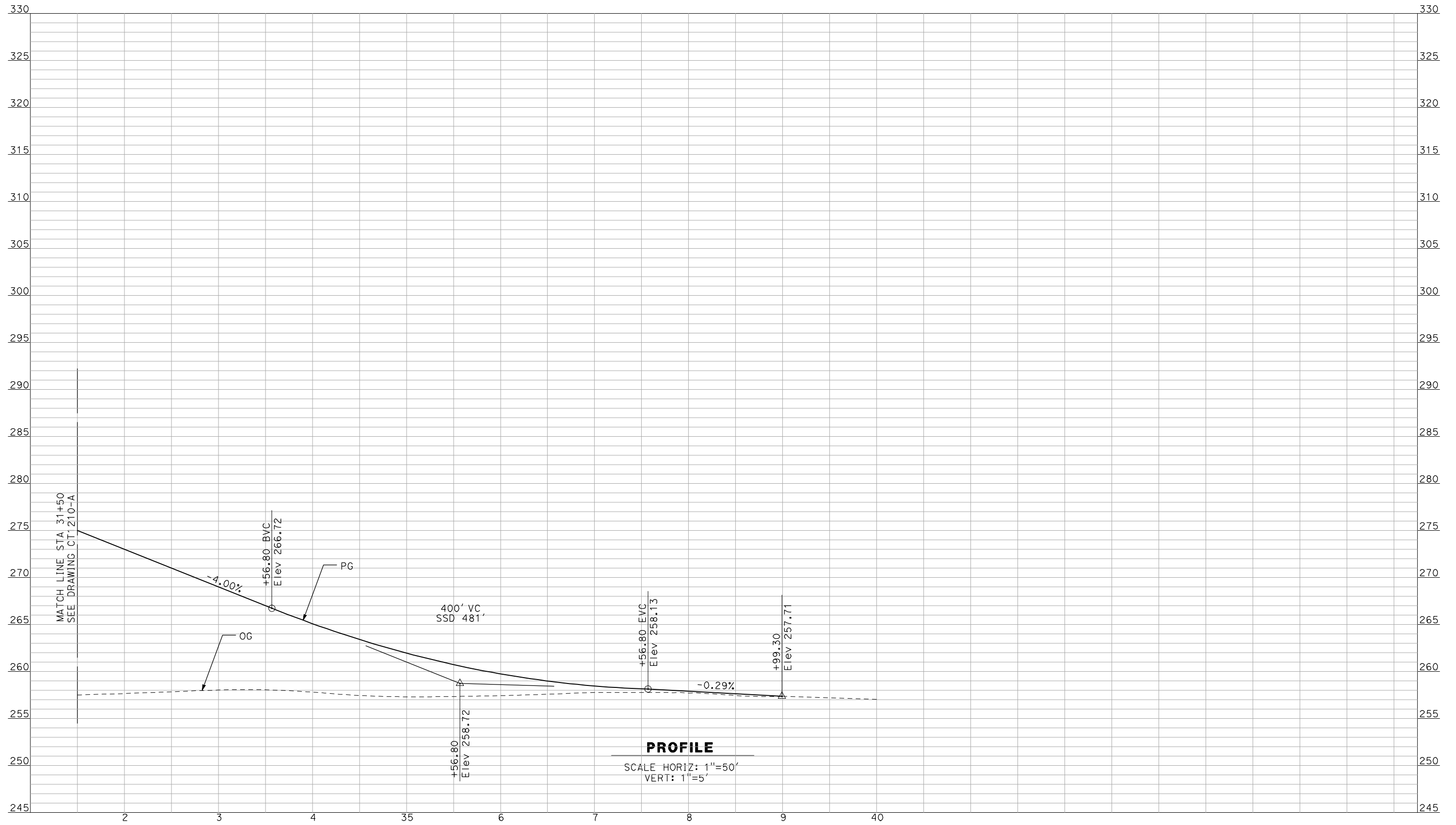
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - CUNNINGHAM RD
 PROFILE
 SHEET 2 OF 3

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 CT1210-A
 SCALE
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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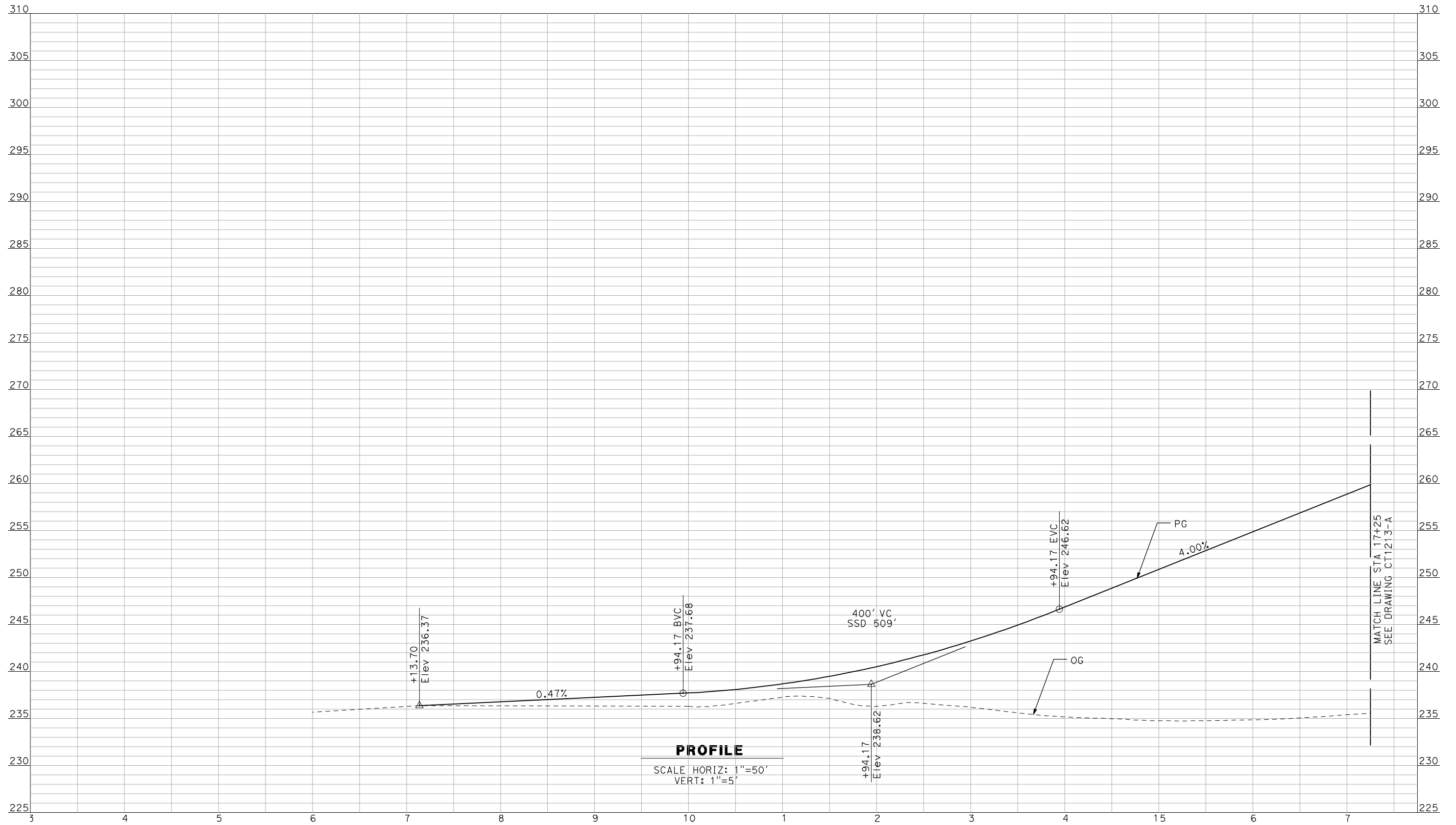
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - CUNNINGHAM RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
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CT1211-A
 SCALE
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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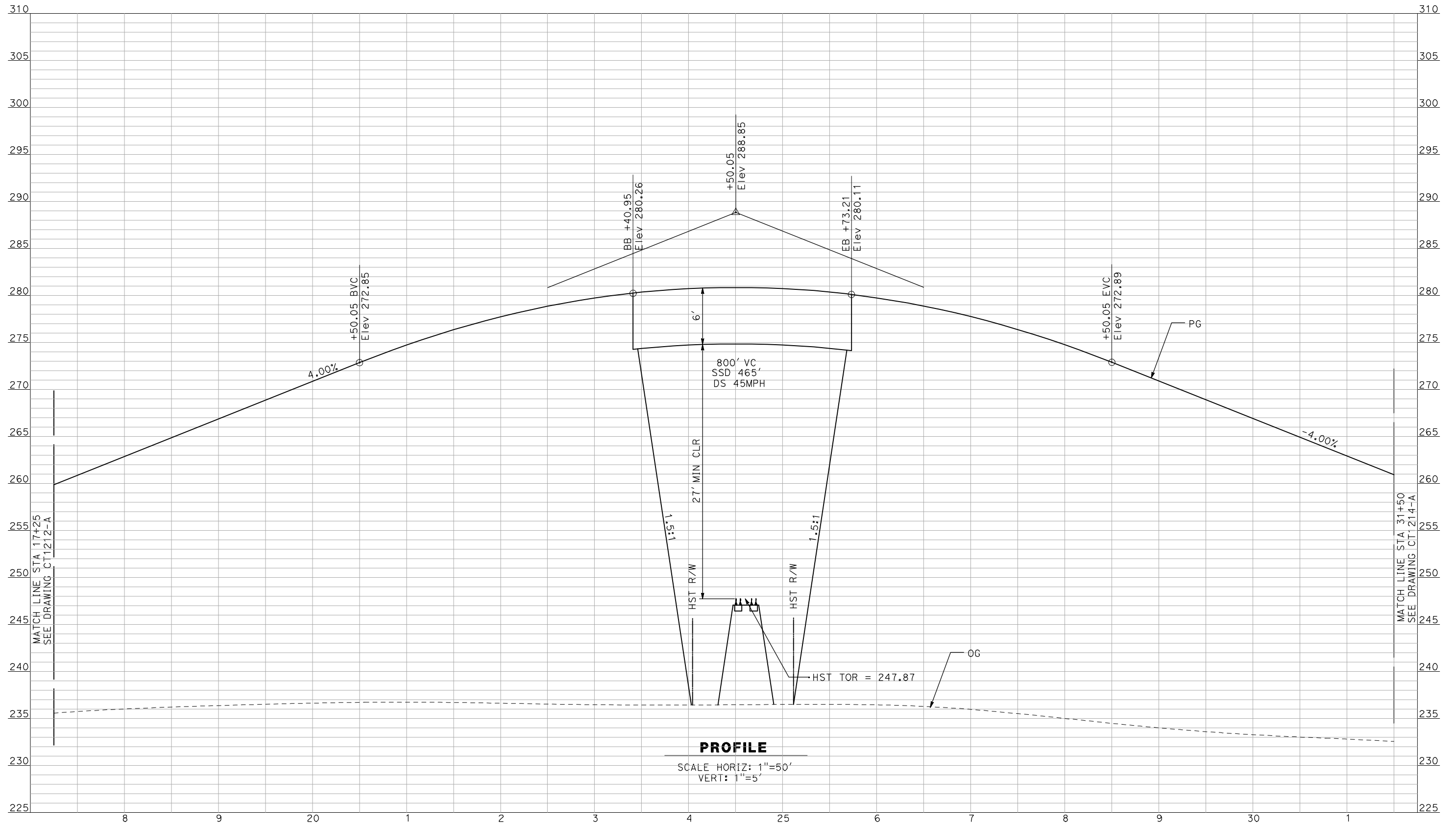
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL RD
 PROFILE
 SHEET 1 OF 3

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CT1212-A
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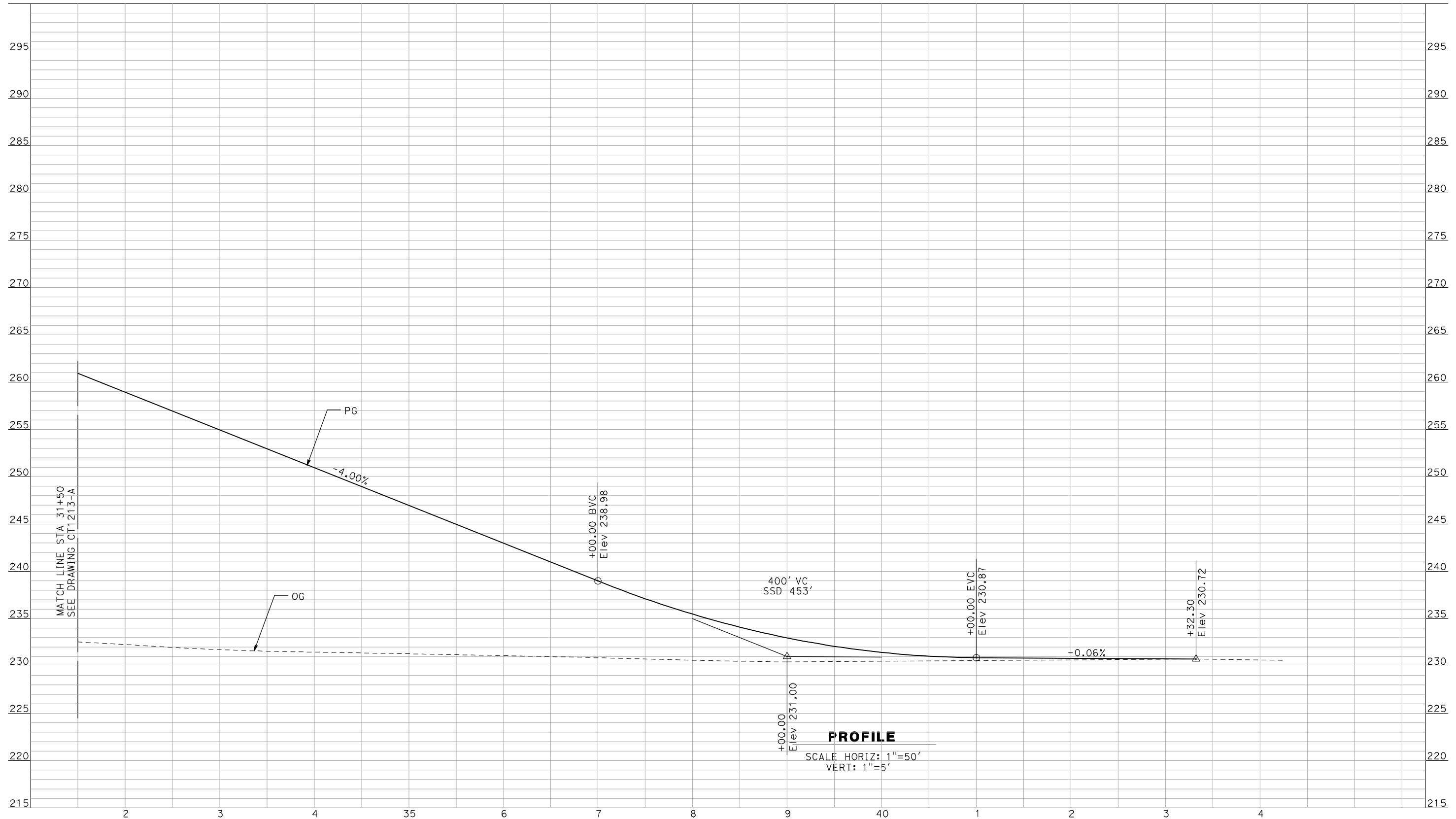


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MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL RD
 PROFILE
 SHEET 2 OF 3

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 CT1213-A
 SCALE
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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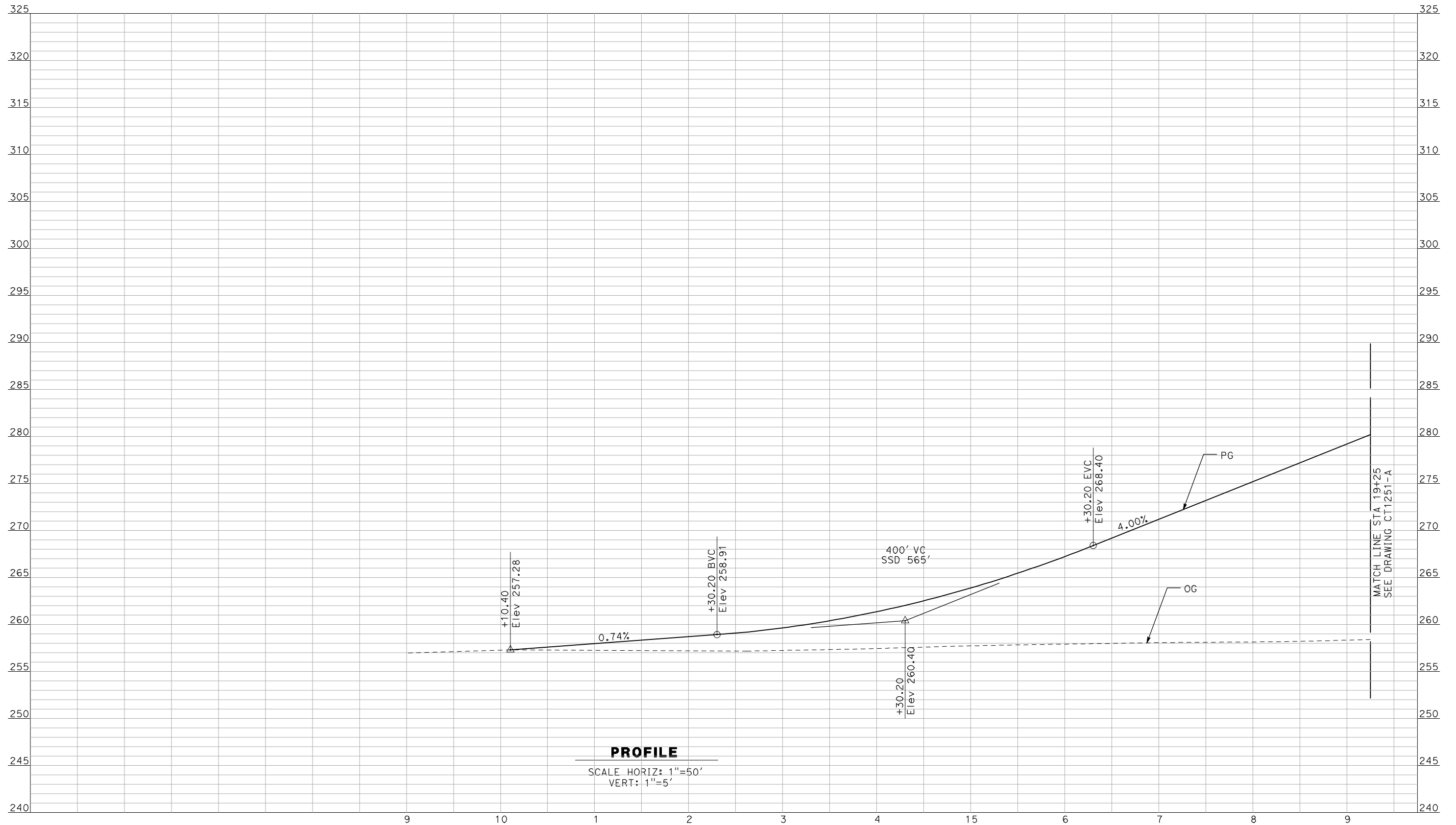
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - BURCHELL RD
 PROFILE
 SHEET 3 OF 3

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CT1214-A
 SCALE
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 SHEET NO.
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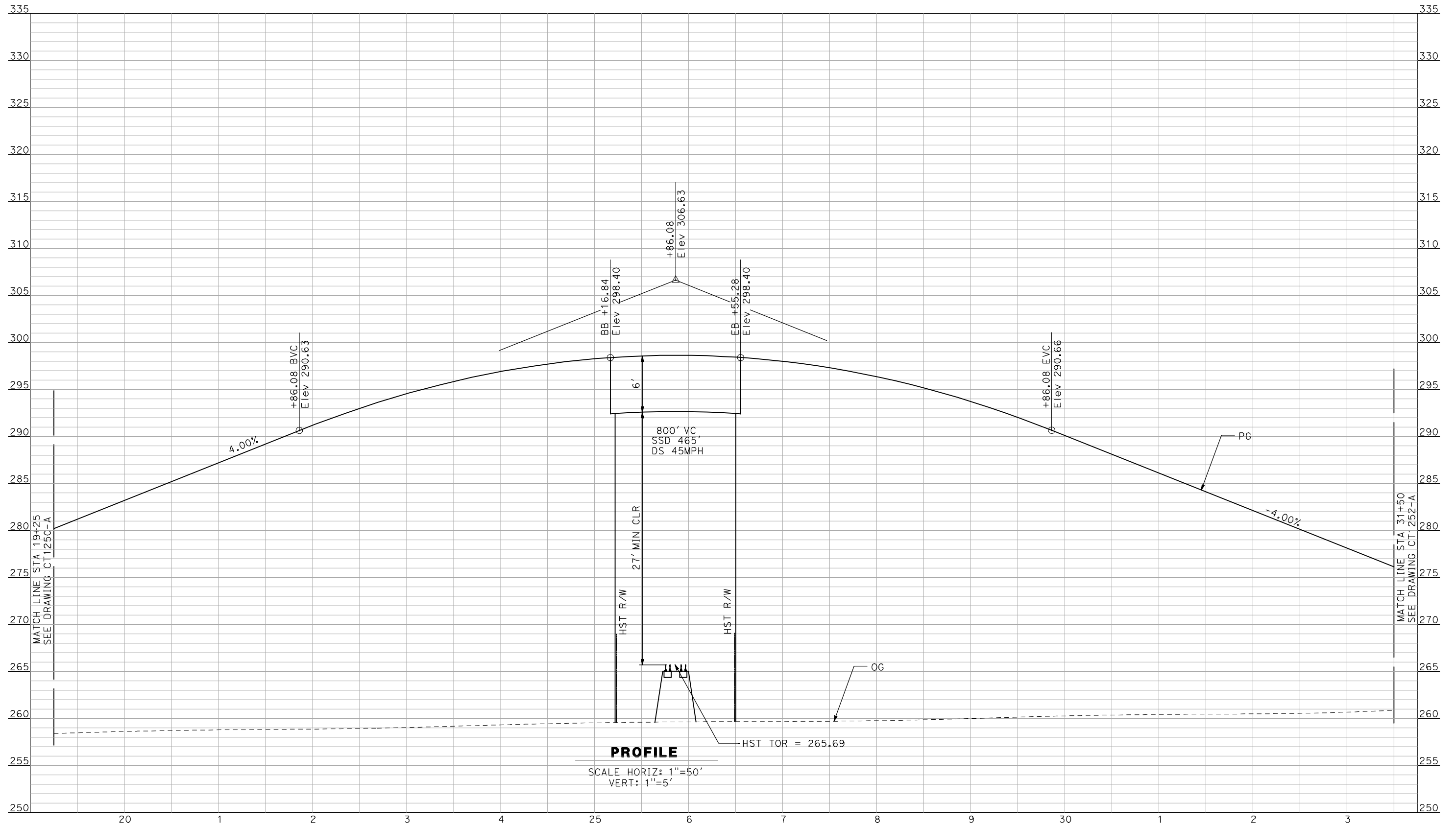


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
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CT1250-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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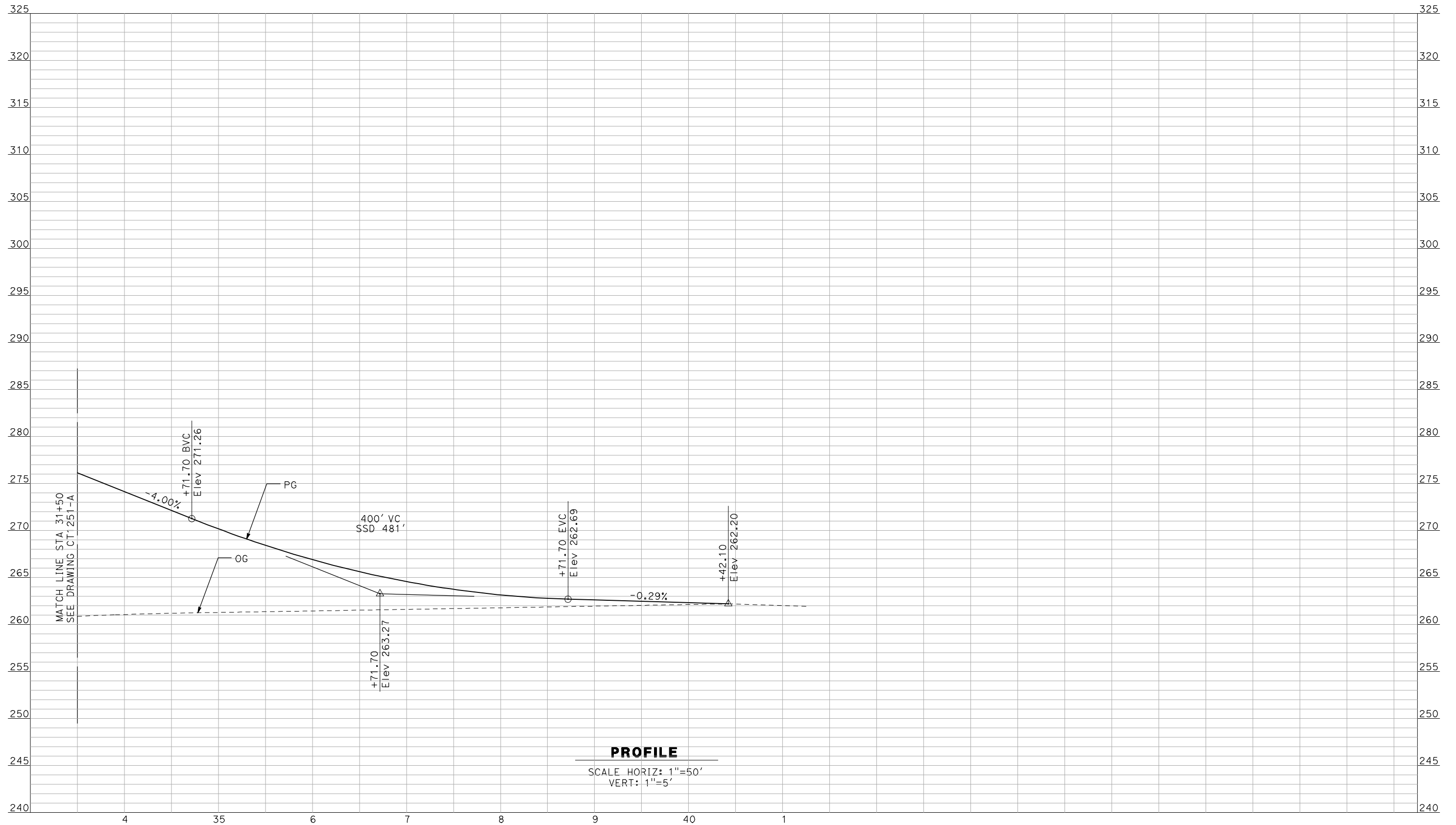
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
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 DRAWING NO.
CT1251-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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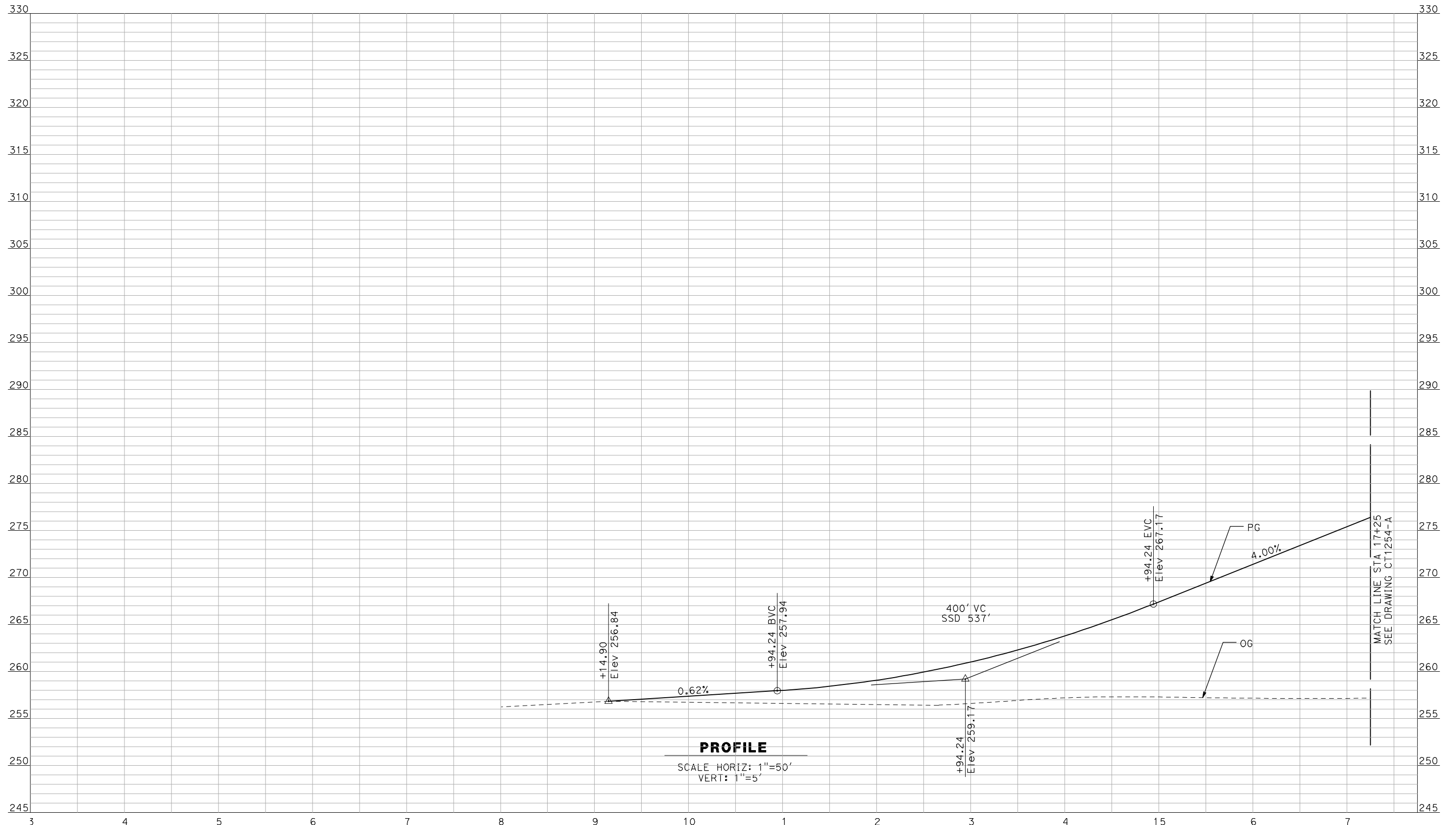
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.	HSR06-007
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SCALE	AS SHOWN
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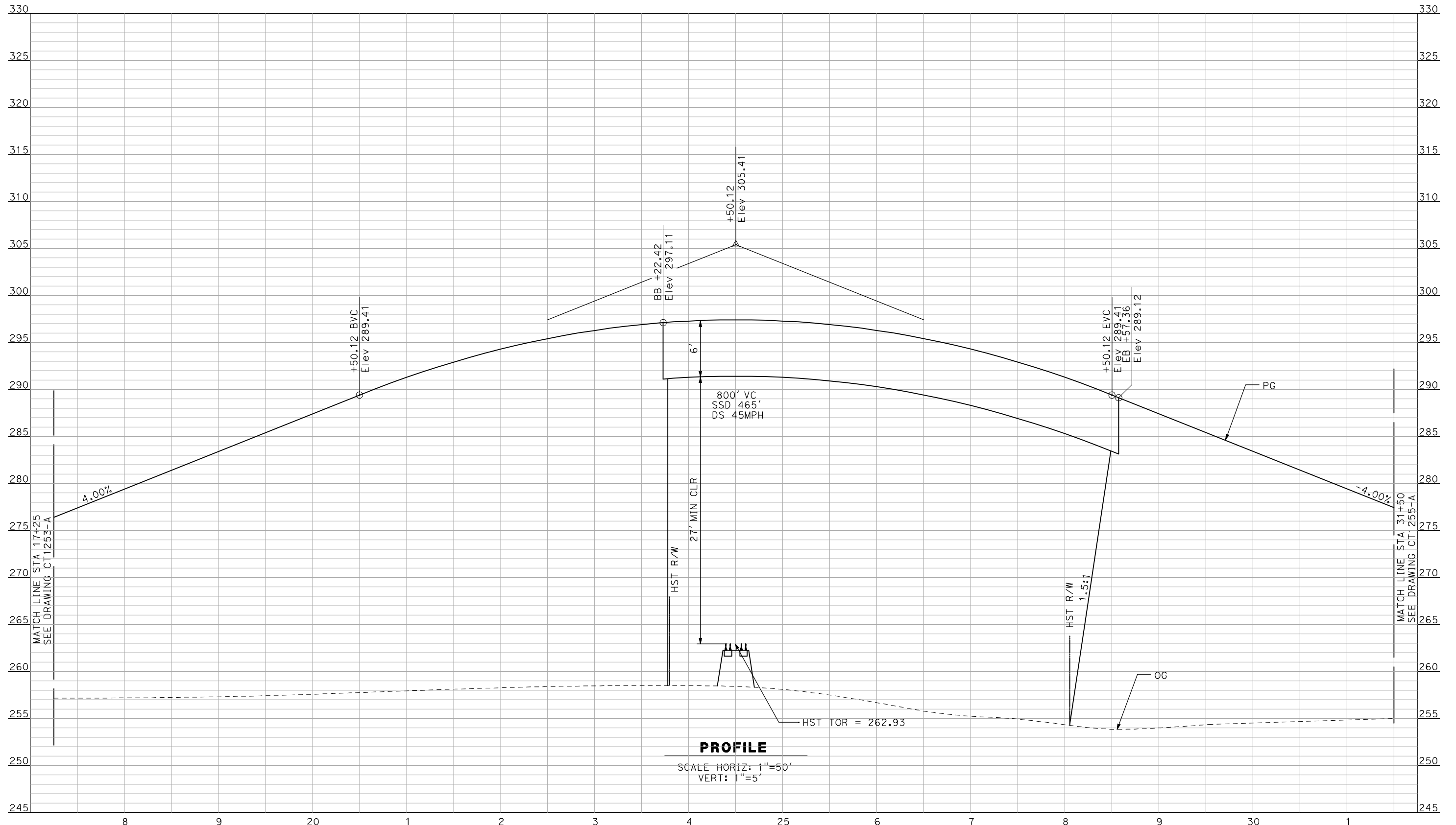
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. FRESNO RD
 PROFILE
 SHEET 1 OF 3

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CT1253-A
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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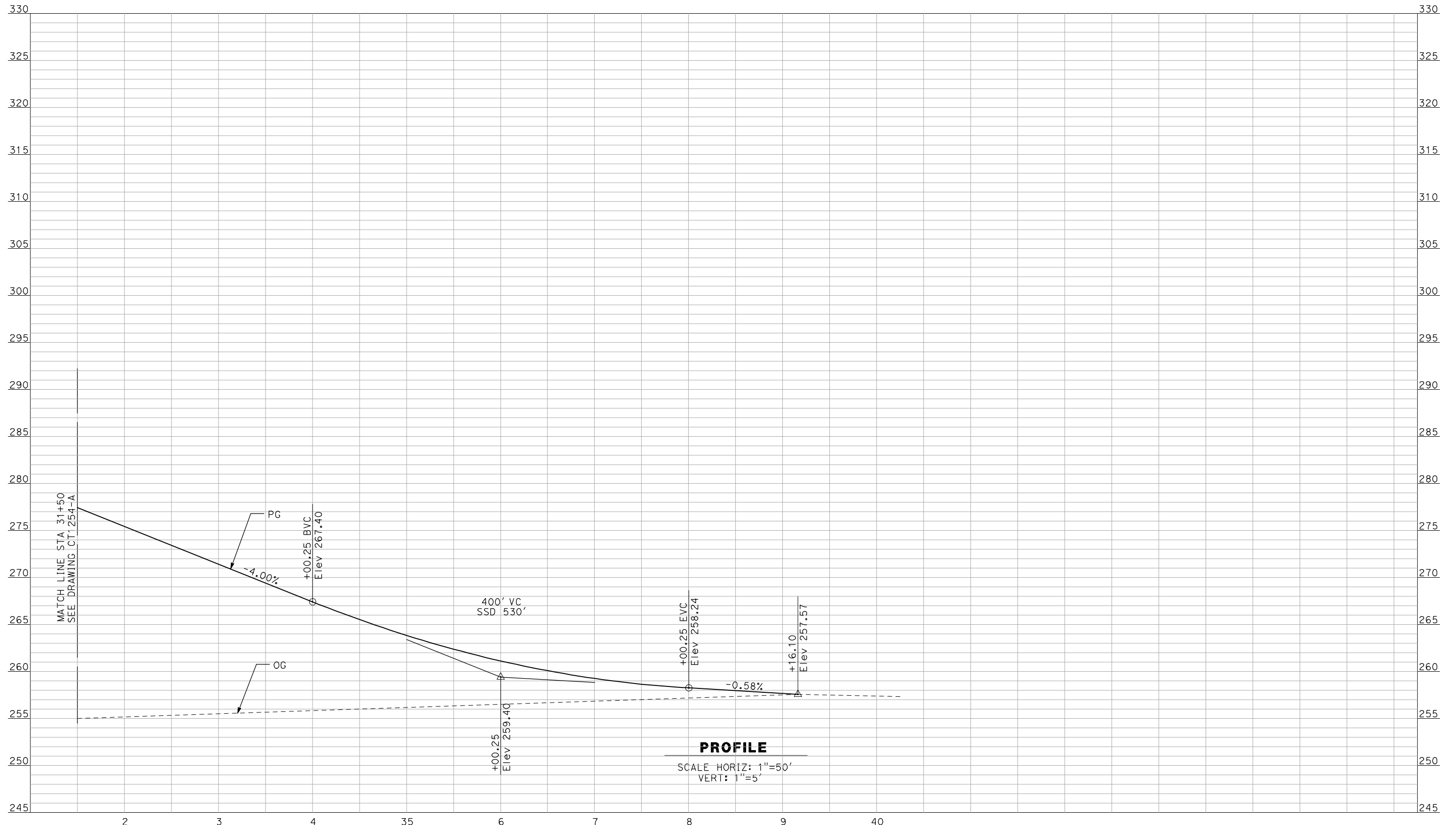
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. FRESNO RD
 PROFILE
 SHEET 2 OF 3

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 CT1254-A
 SCALE
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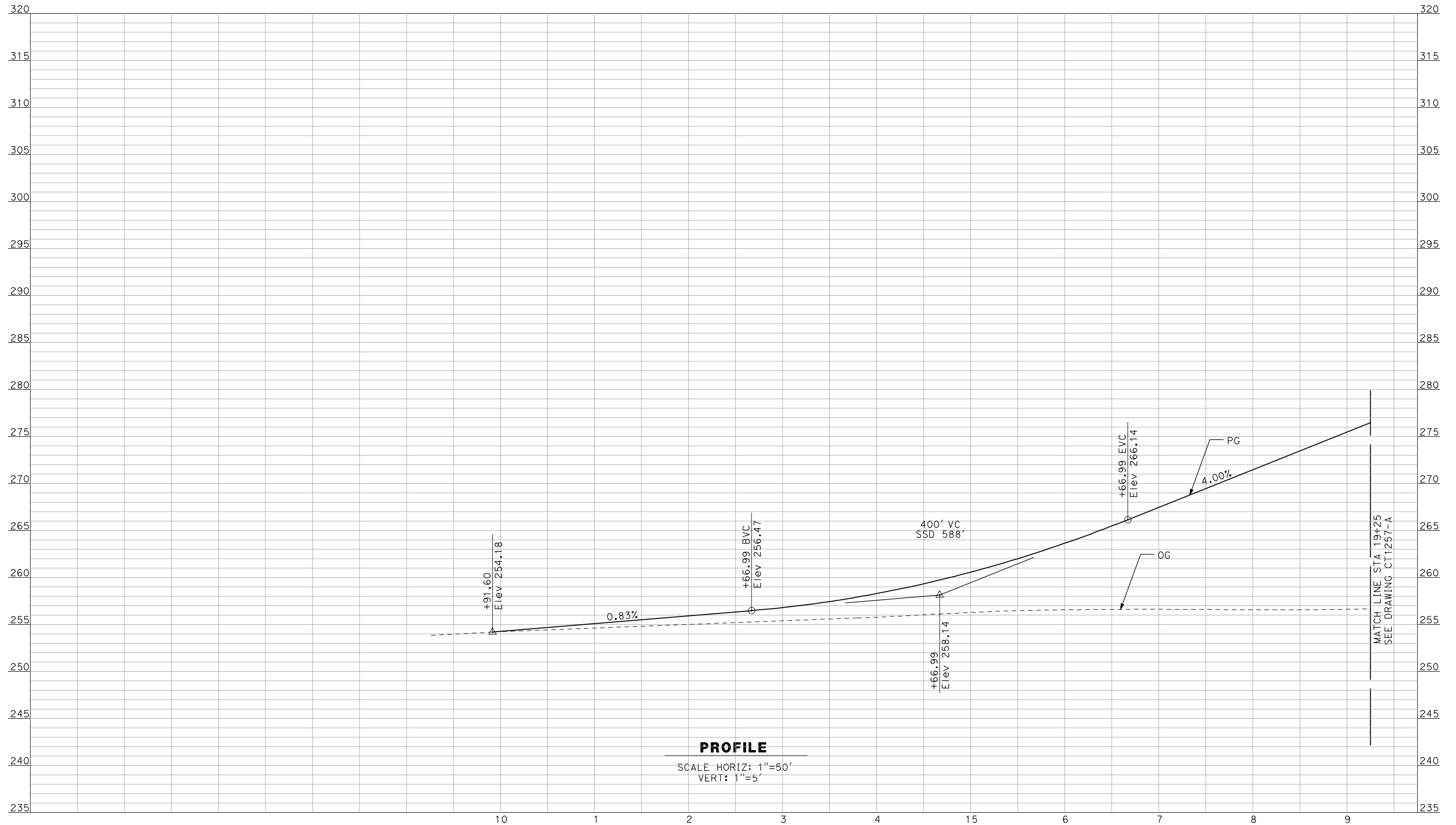
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. FRESNO RD
 PROFILE
 SHEET 3 OF 3

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CT1255-A
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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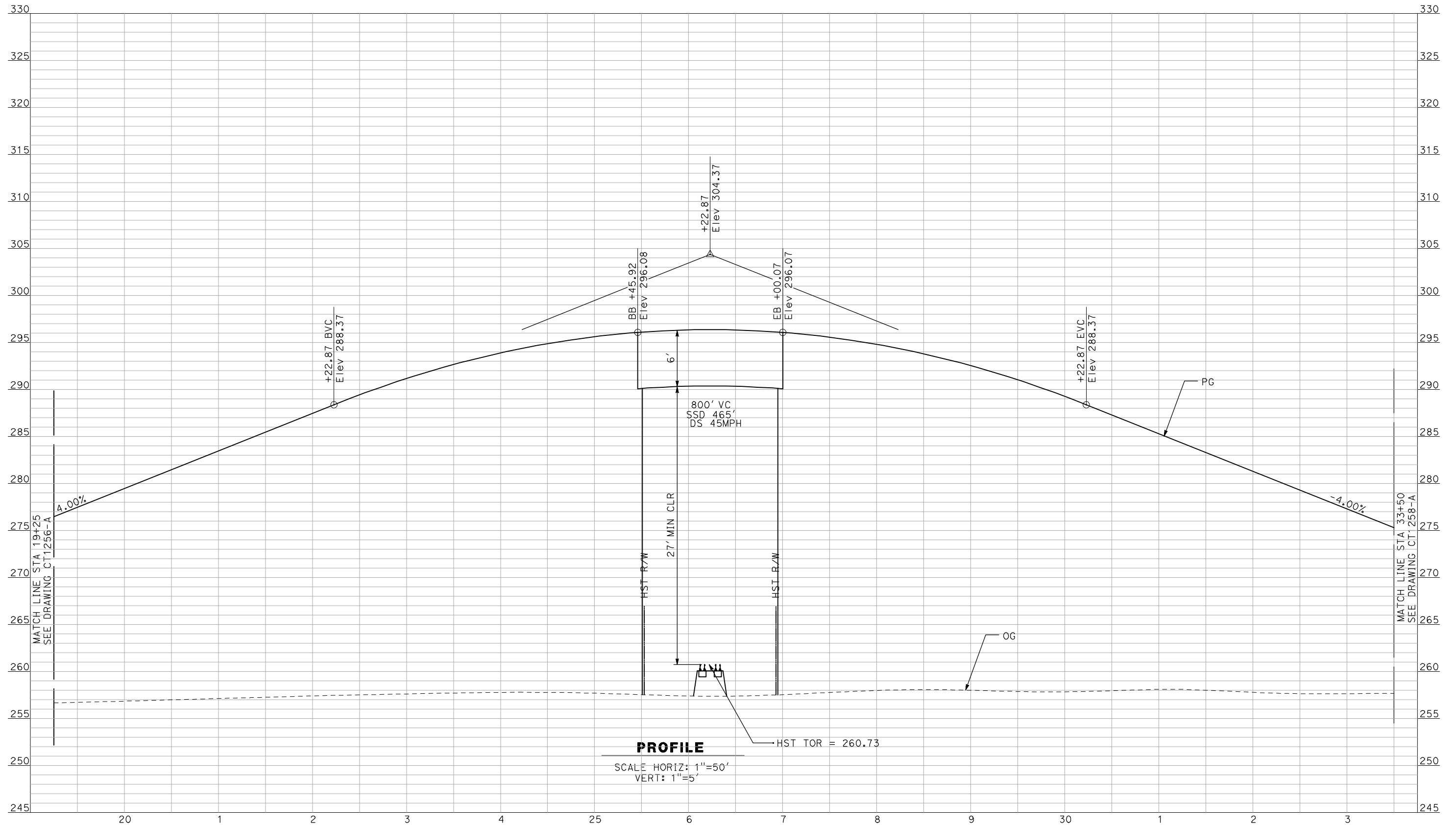
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. CUNNINGHAM RD
 PROFILE
 SHEET 1 OF 3

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CT1256-A
 SCALE
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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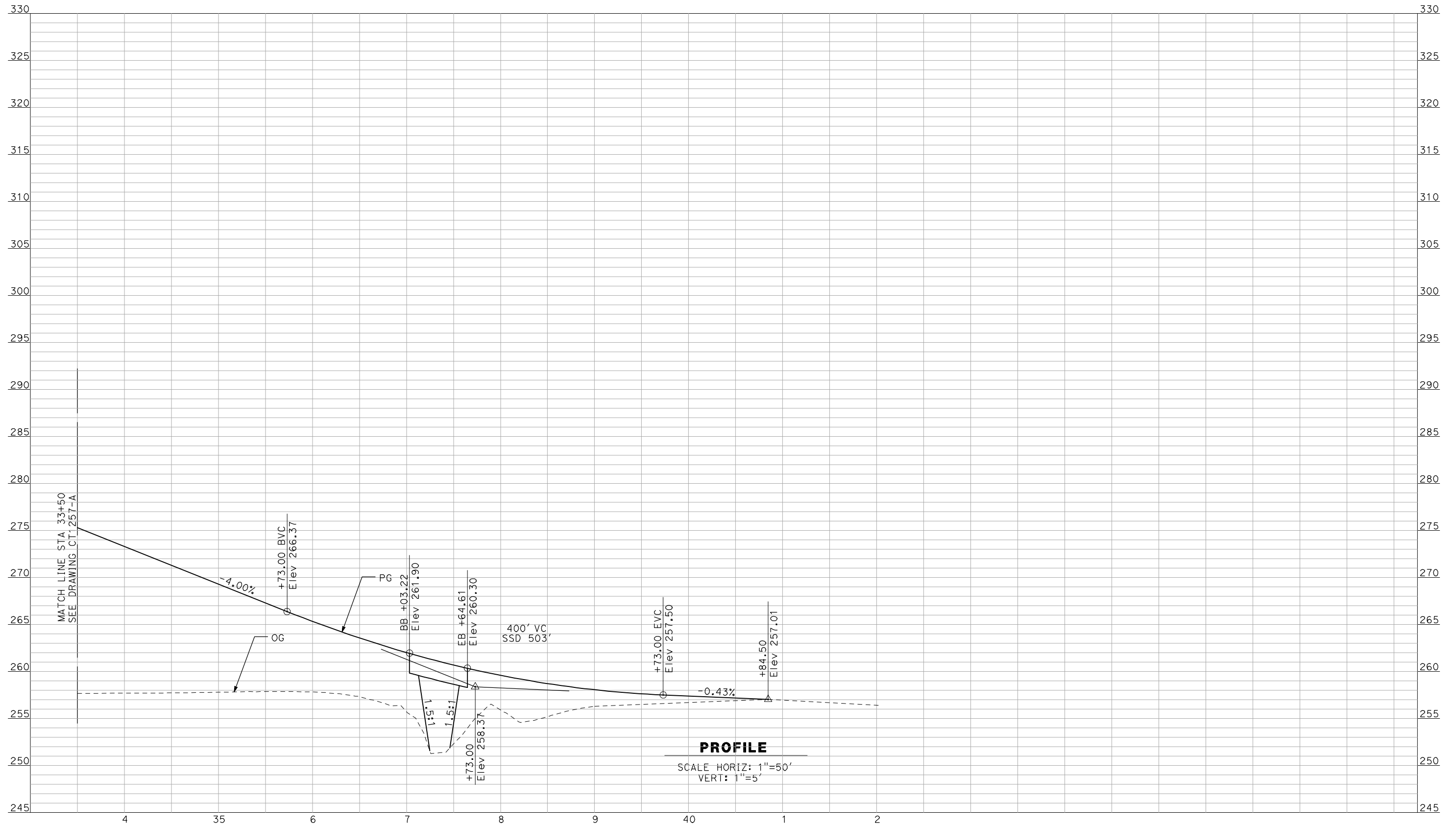
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. CUNNINGHAM RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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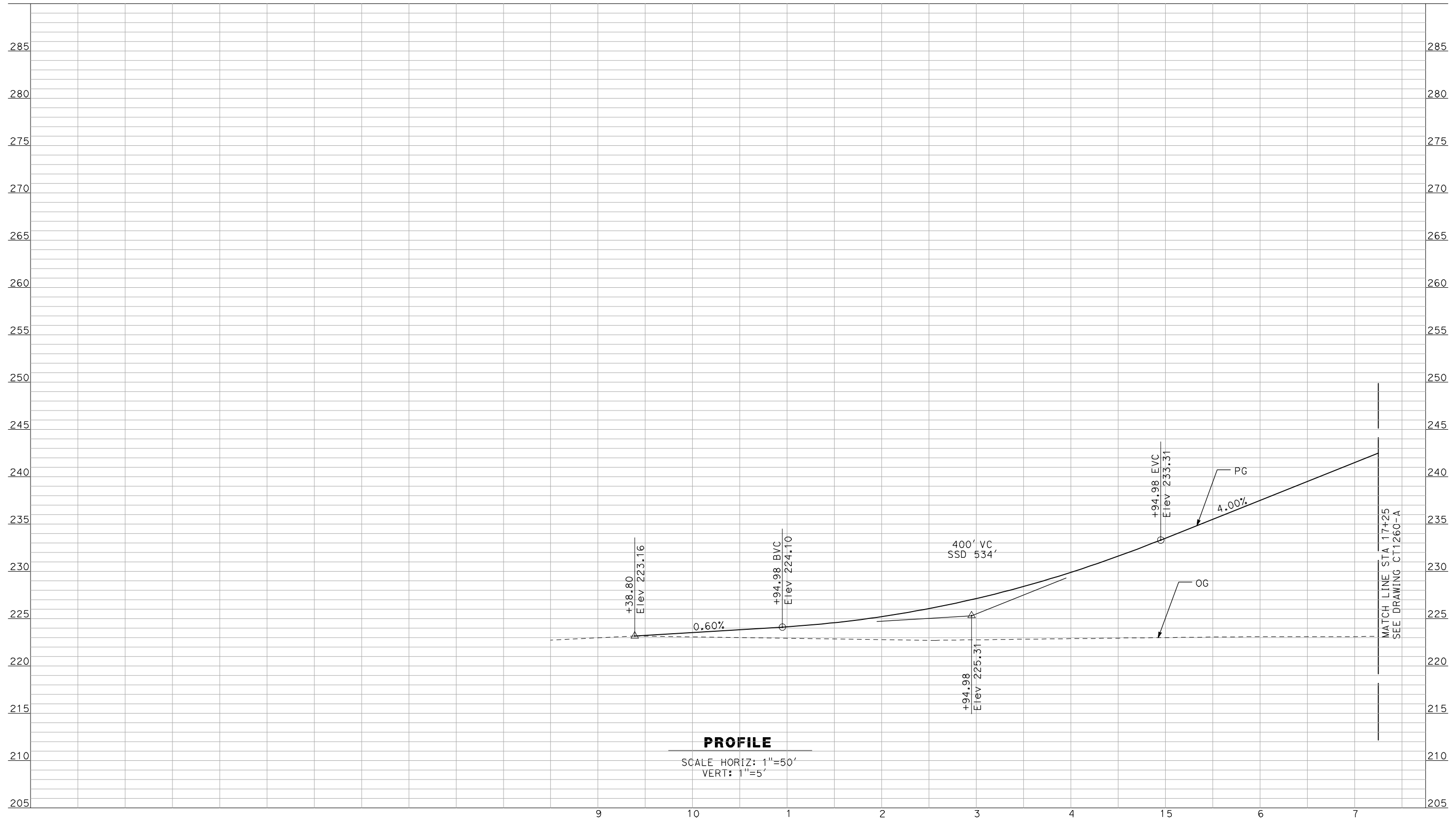
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. CUNNINGHAM RD
 PROFILE
 SHEET 3 OF 3

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

MATCH LINE STA 17+25
 SEE DRAWING CT1260-A

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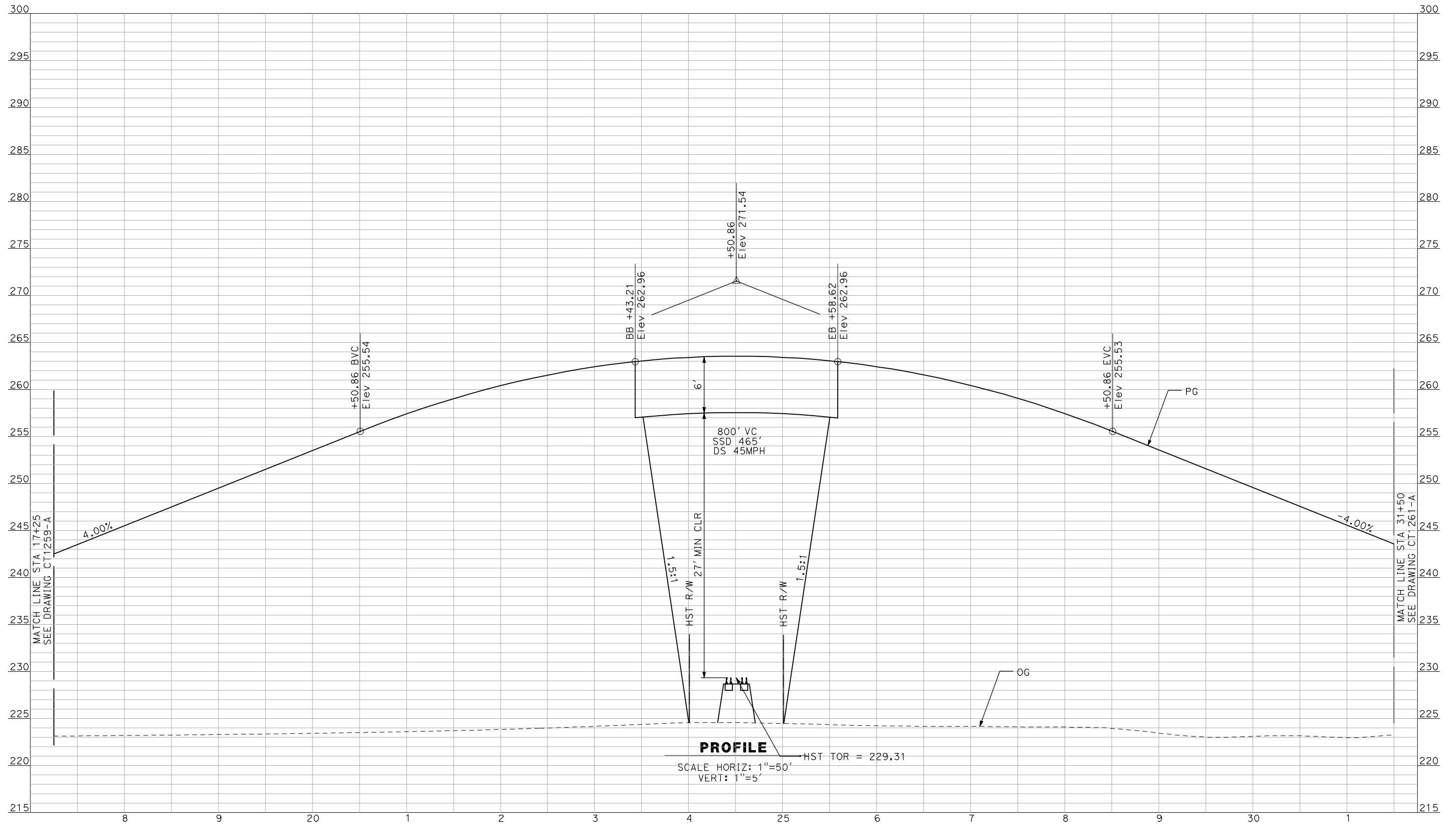
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - PLAINSBURG RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
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 CT1259-A
 SCALE
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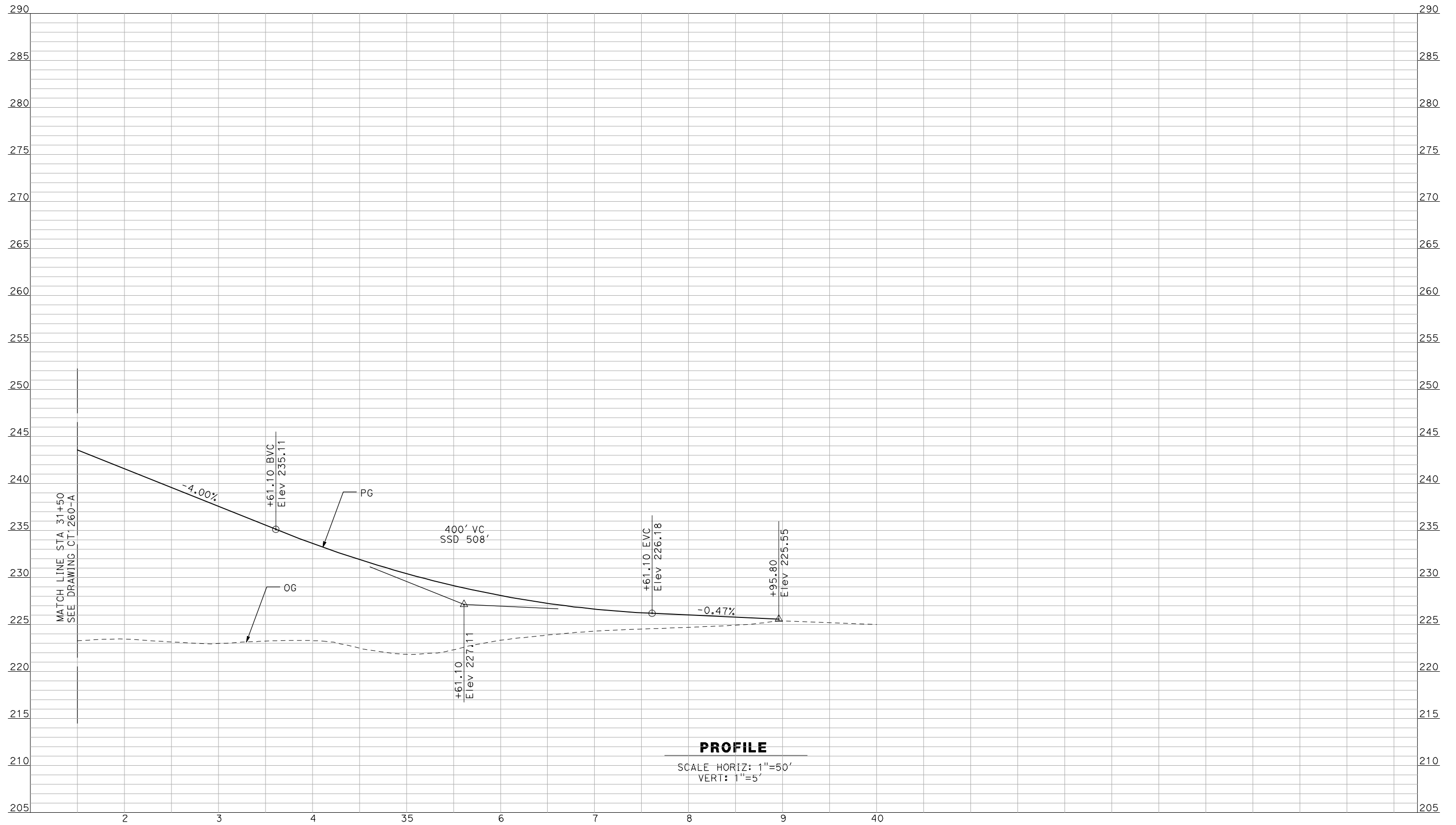


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
GRADE SEPARATION - PLAINSBURG RD
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1260-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 R. GIBSON
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 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
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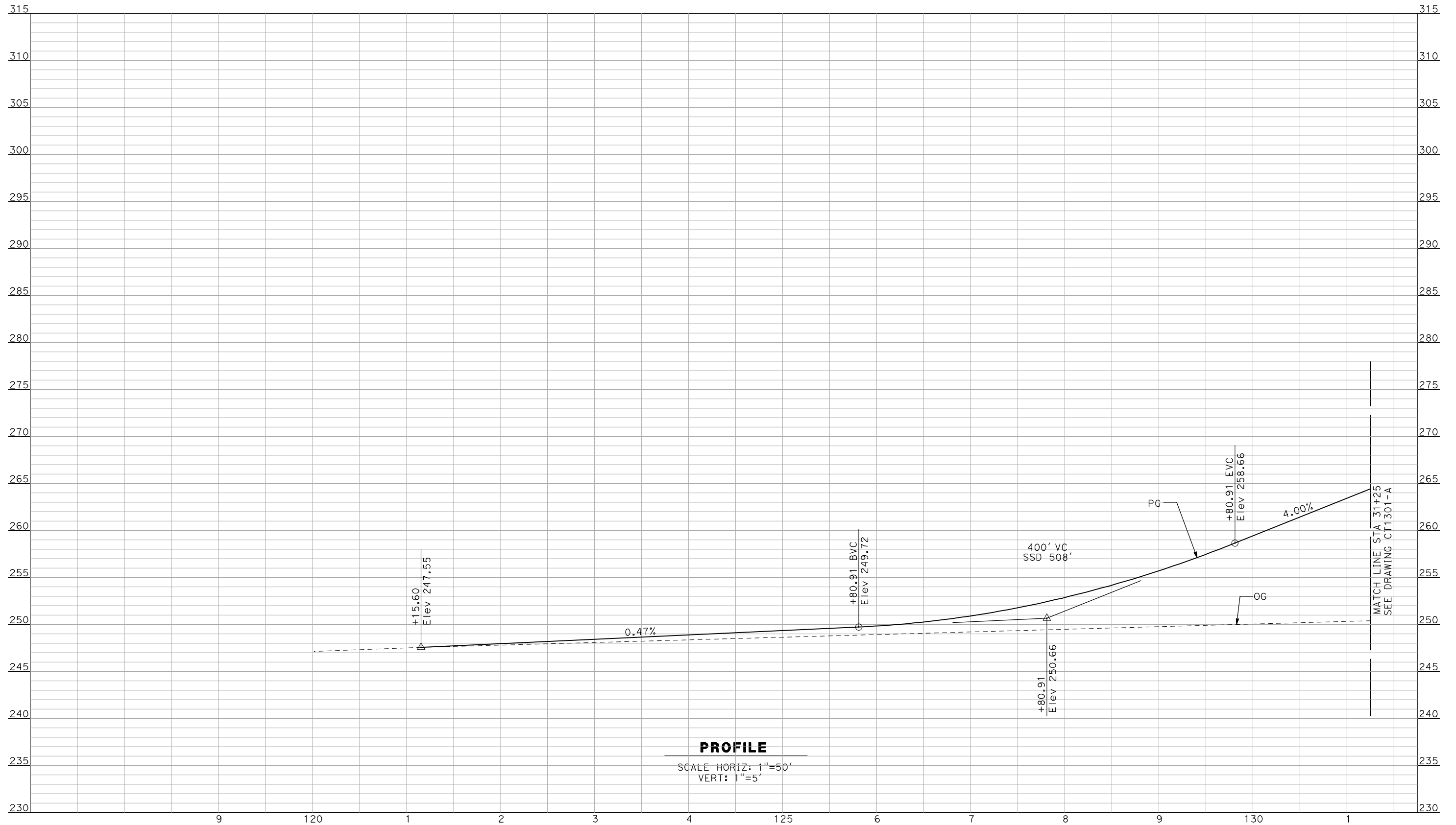
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - PLAINSBURG RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1261-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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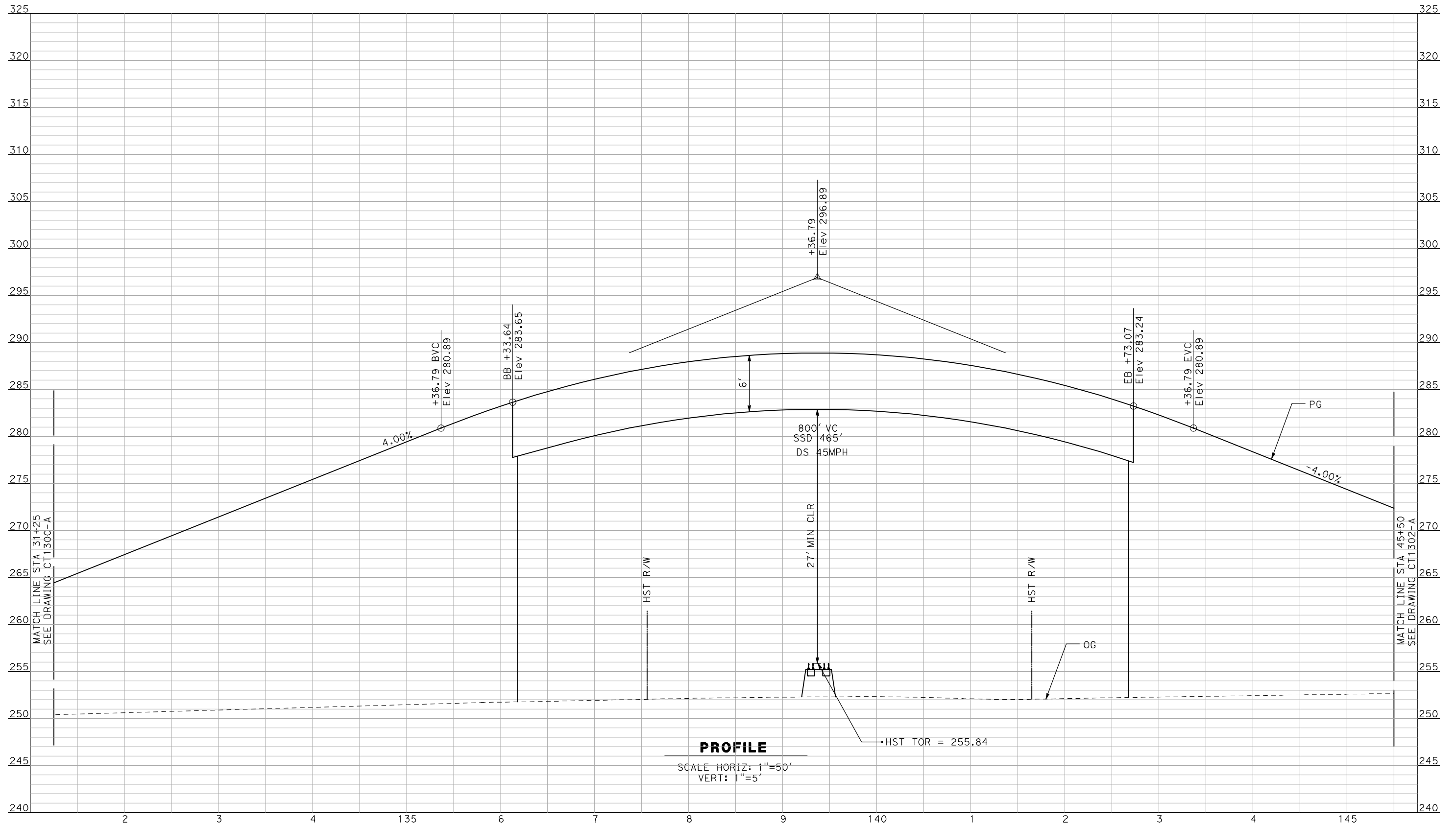
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. SANTA FE DR
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1300-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
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 VERT: 1"=5'

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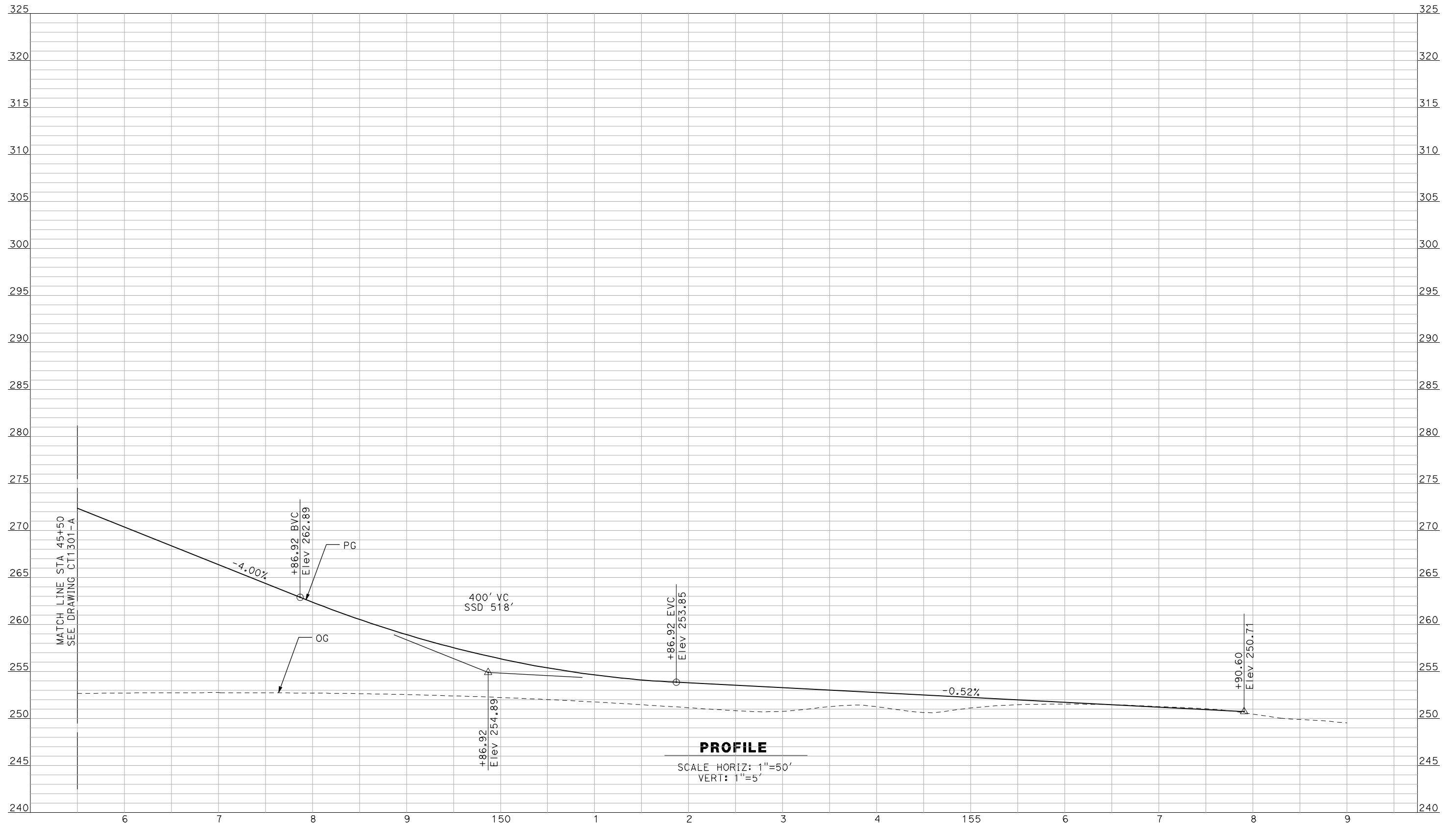


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. SANTA FE DR
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1301-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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J. ZANDIAN
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A. BOONE
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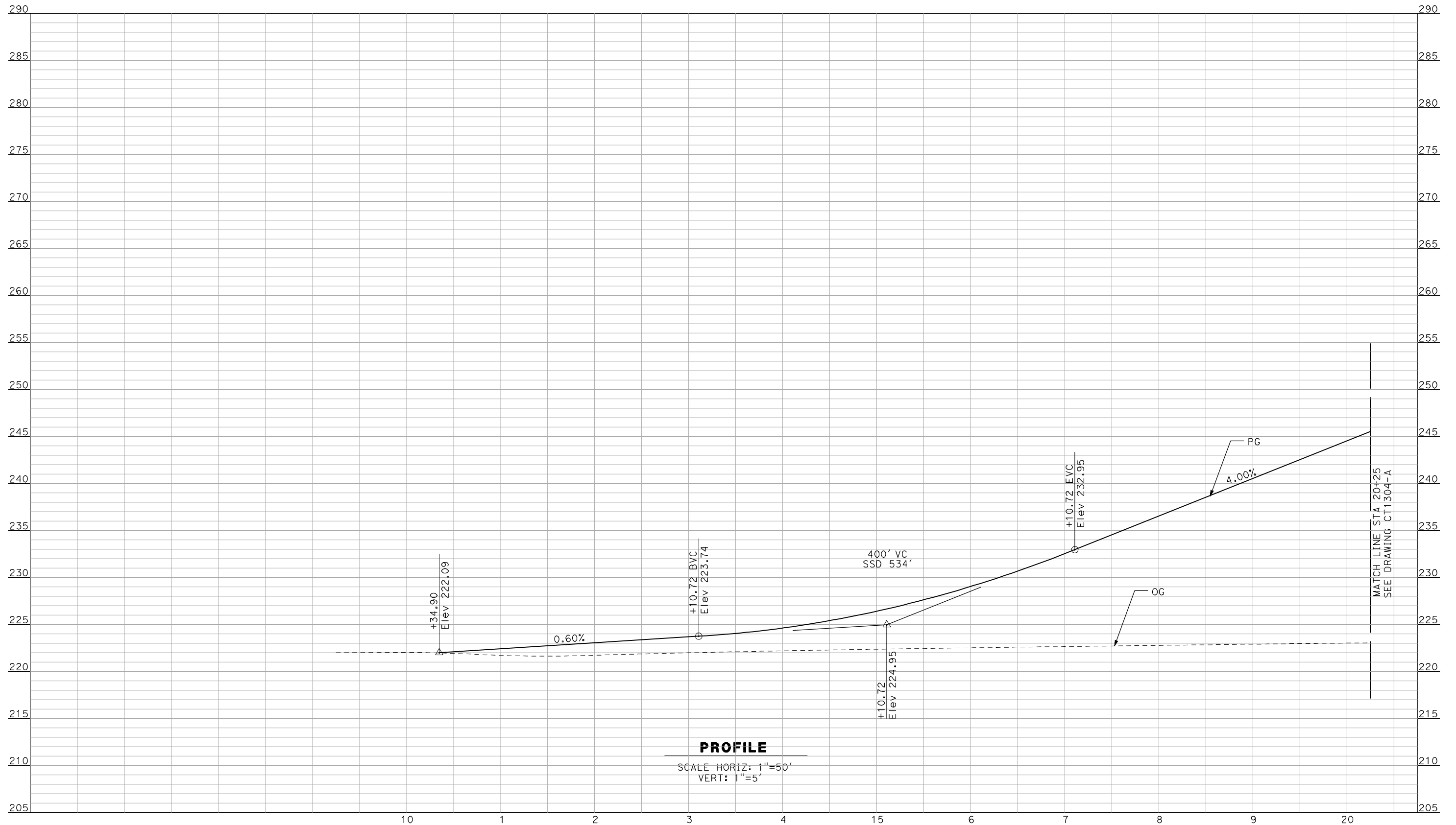
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. SANTA FE DR
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1302-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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J. ZANDIAN
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A. BOONE
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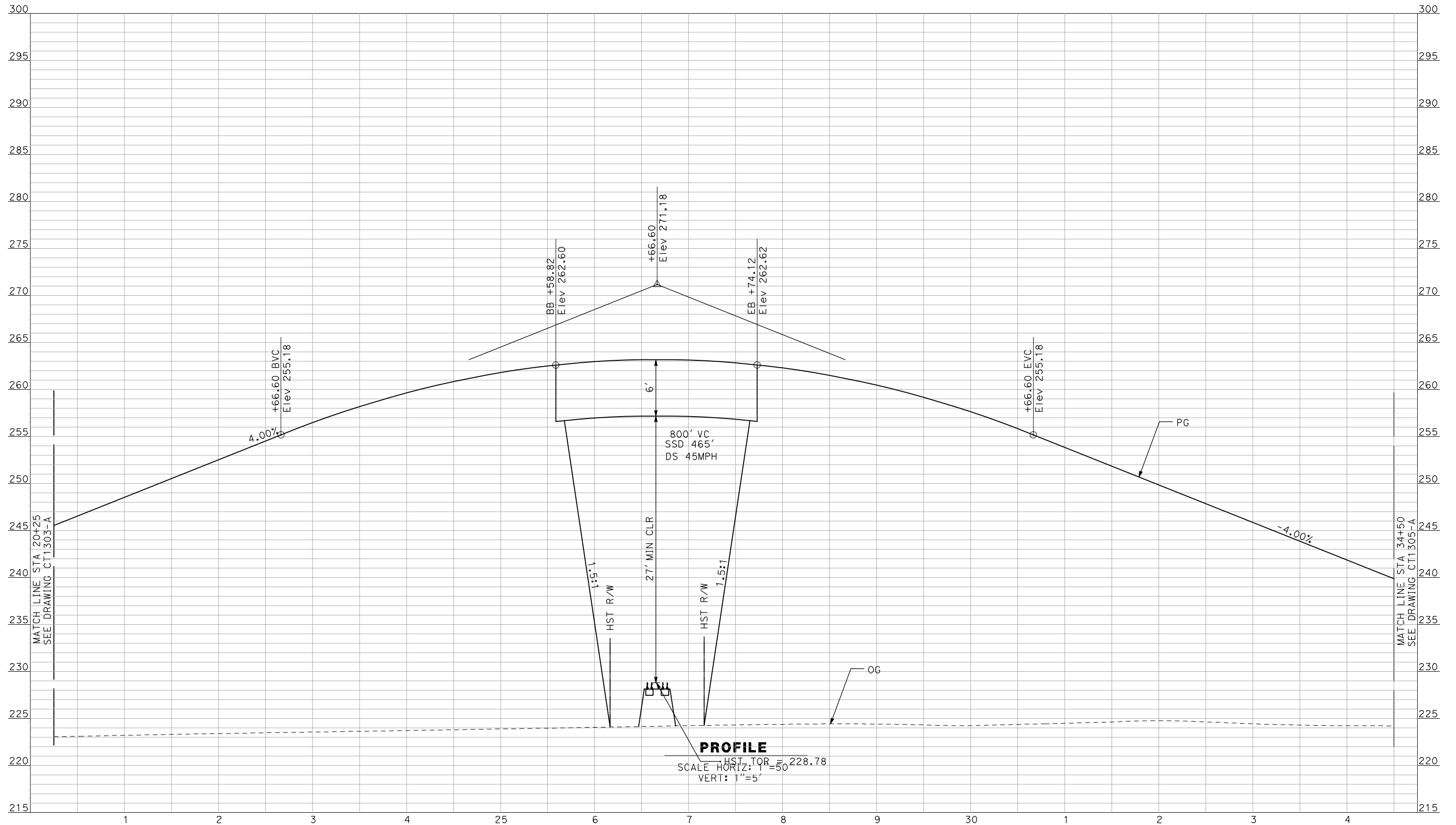
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - PLAINSBURG RD
PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1303-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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 GIBSONR1



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 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
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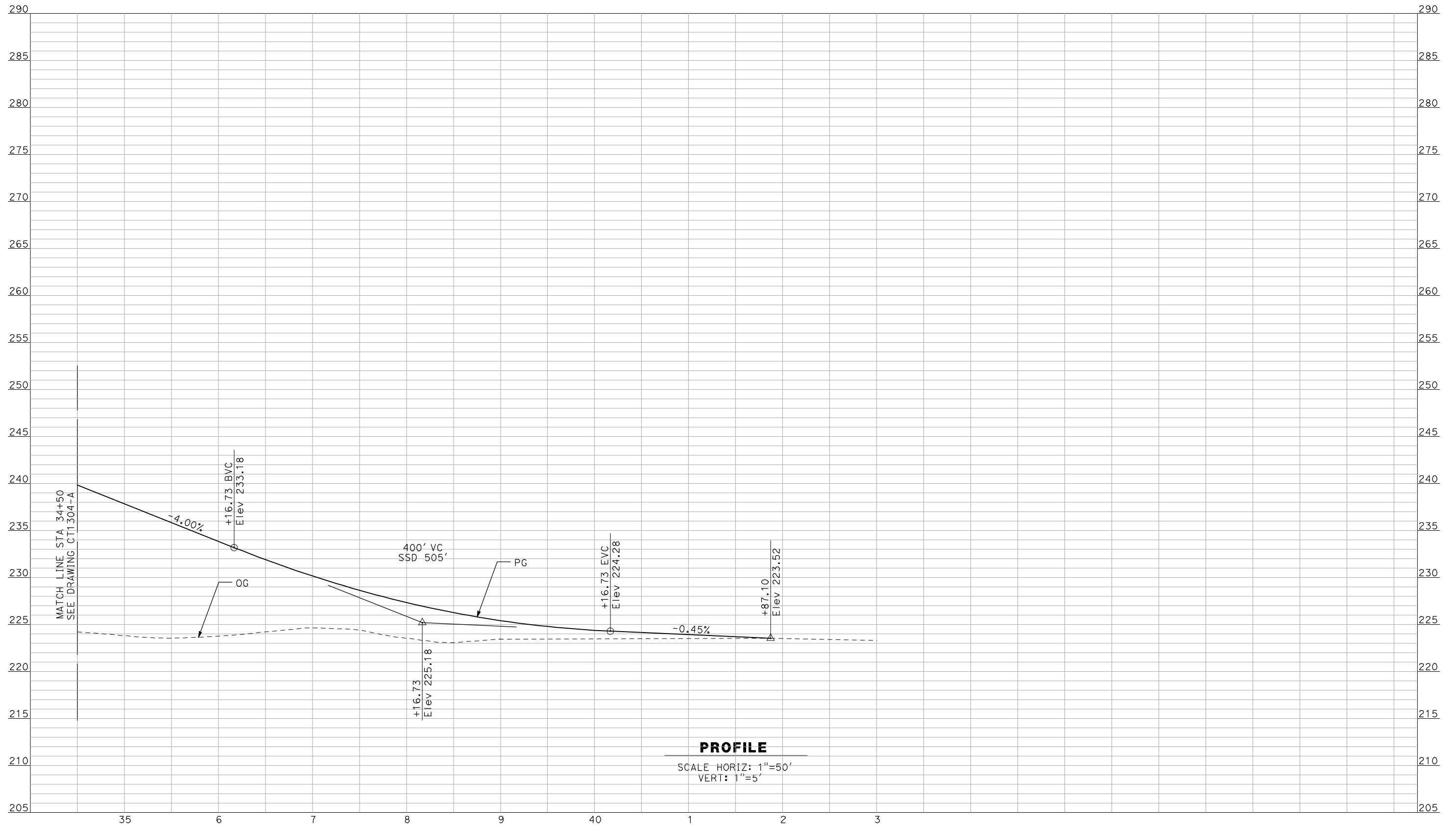
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - PLAINSBURG RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1304-A
 SCALE
 AS SHOWN
 SHEET NO.
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J. ZANDIAN
 IN CHARGE
A. BOONE
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04/29/2011

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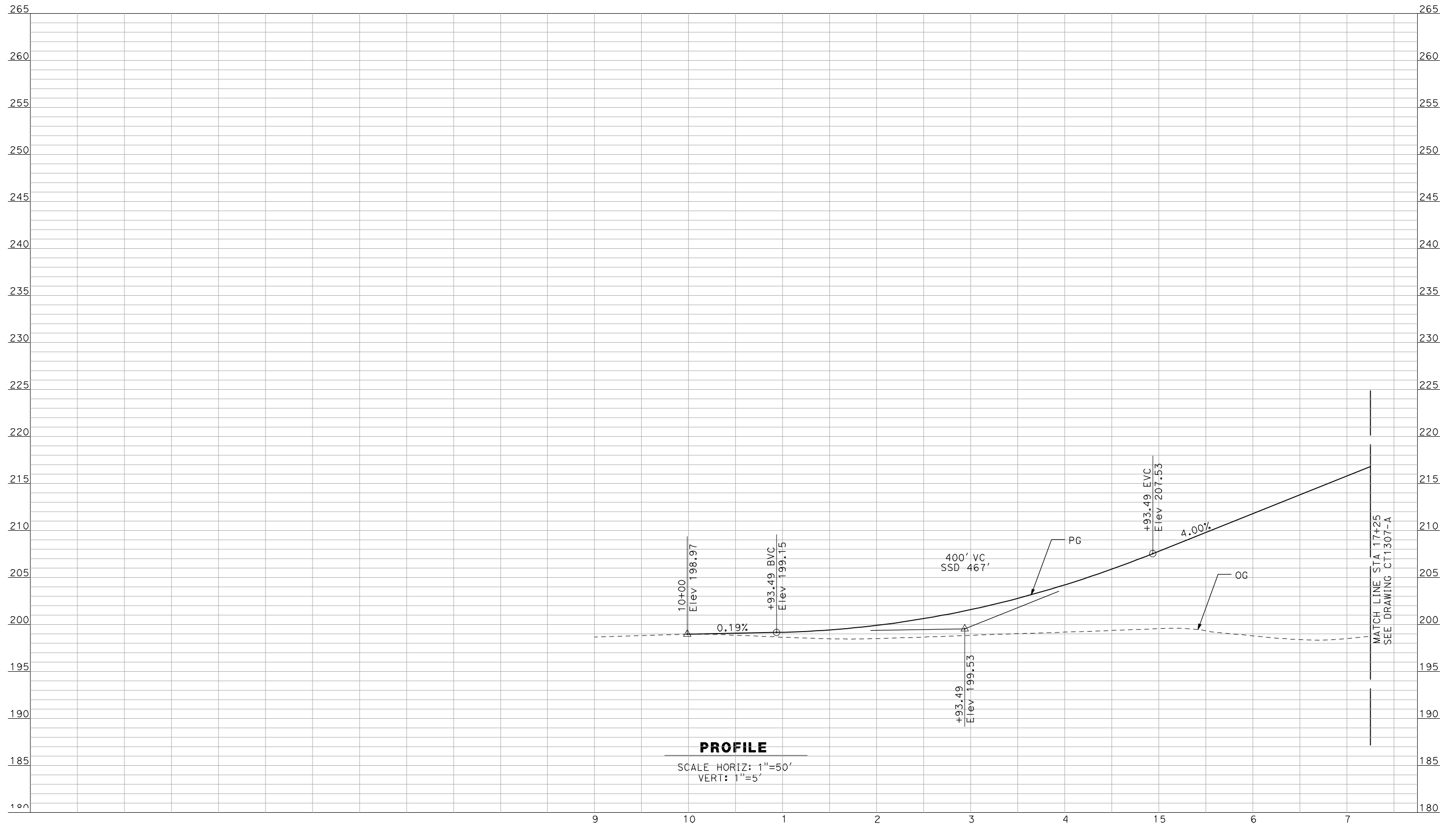
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - PLAINSBURG RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1305-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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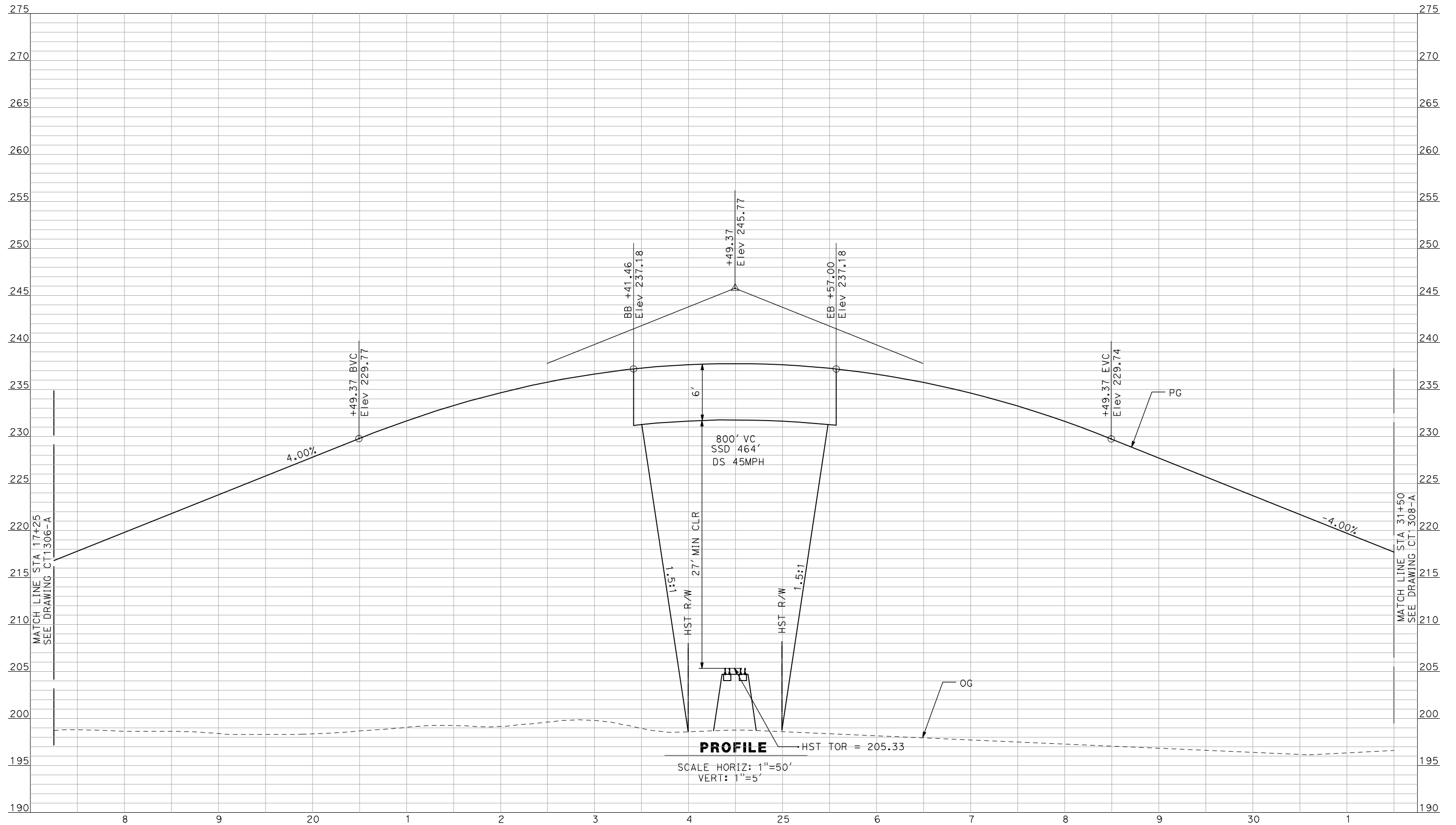
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. ARBOLEDA RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1306-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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 A. BOONE

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. ARBOLEDA RD
 PROFILE
 SHEET 2 OF 3

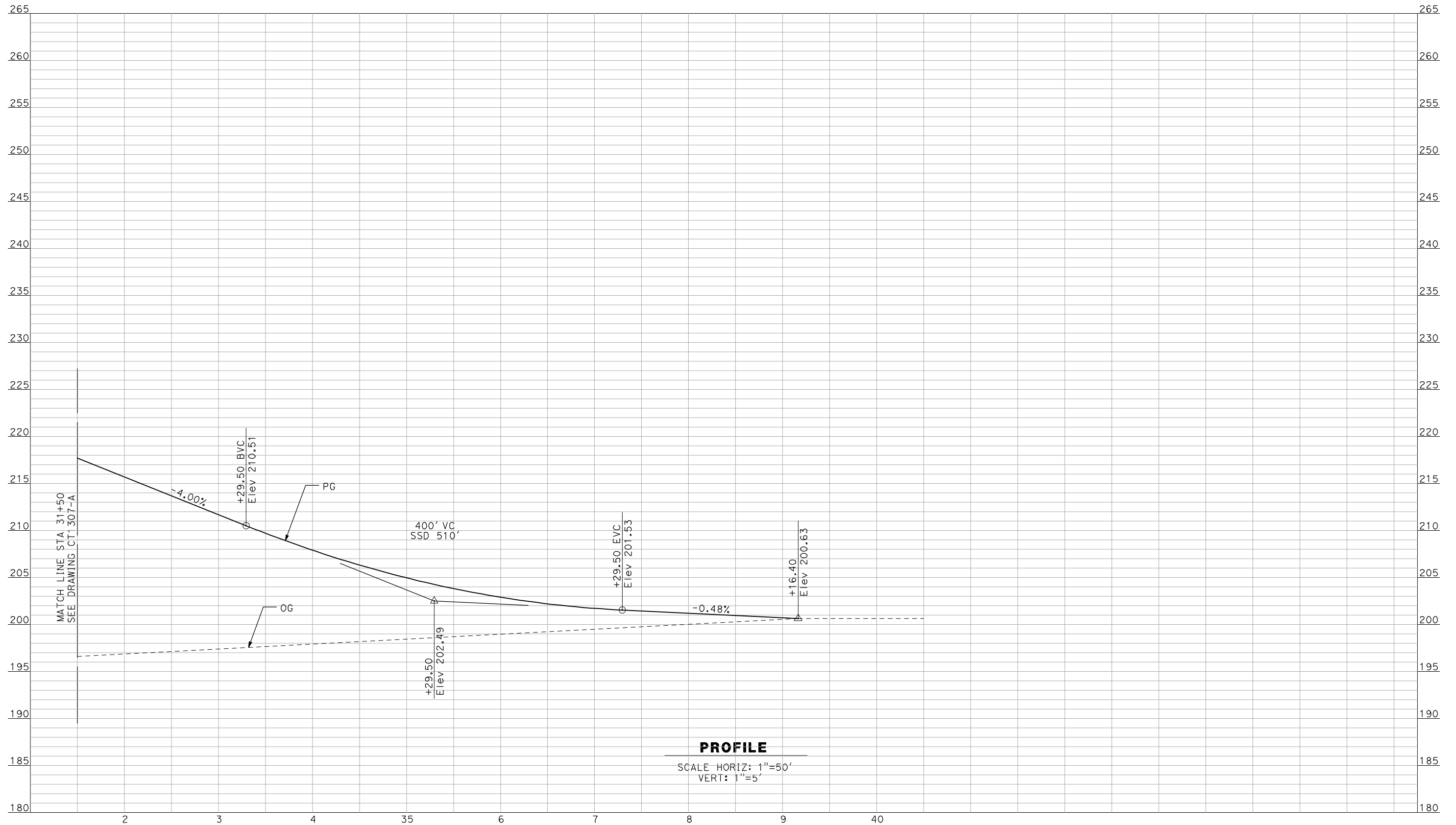
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DRAWING NO.
 CT1307-A

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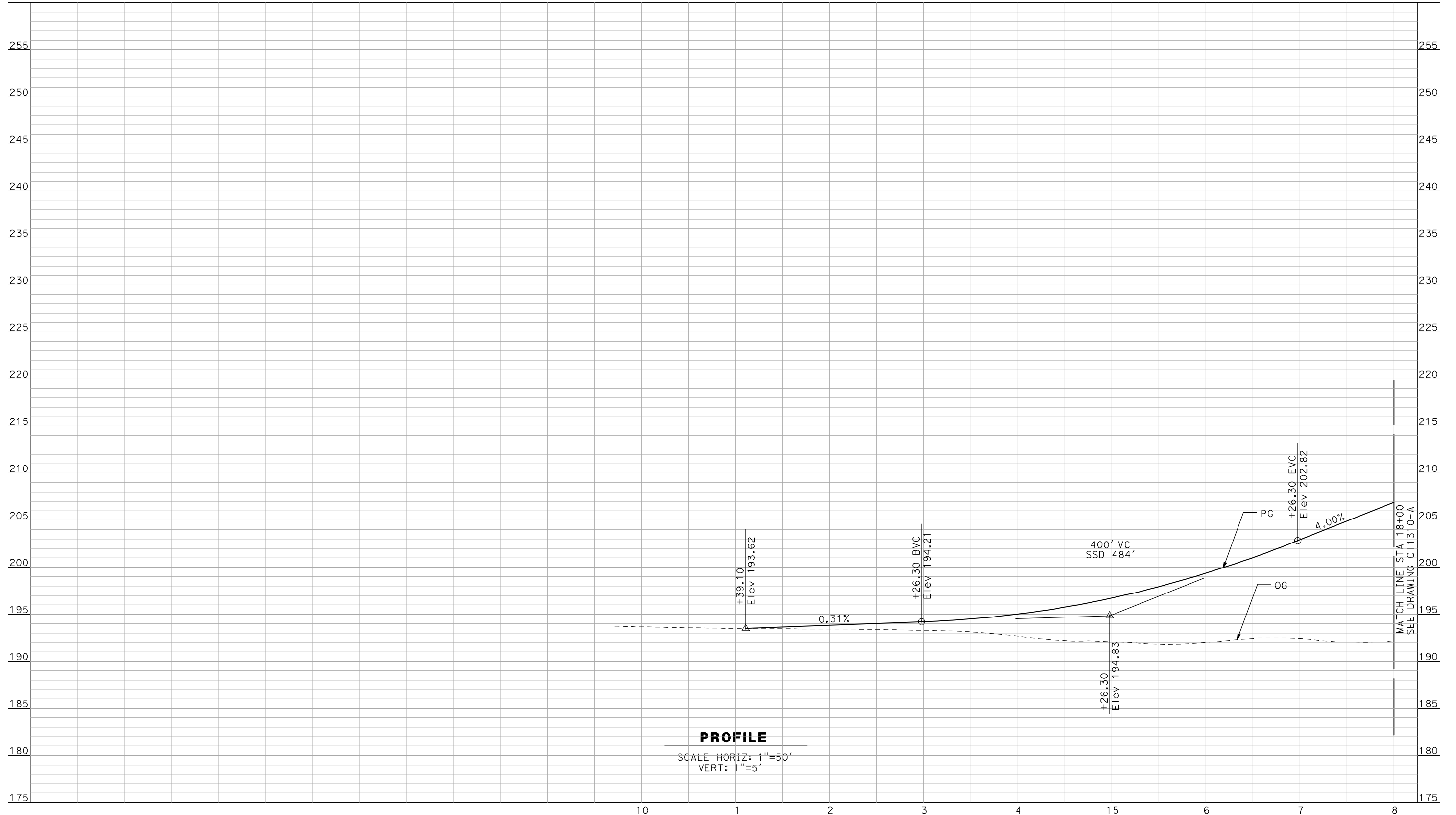
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. ARBOLEDA RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT1308-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

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 A. BOONE
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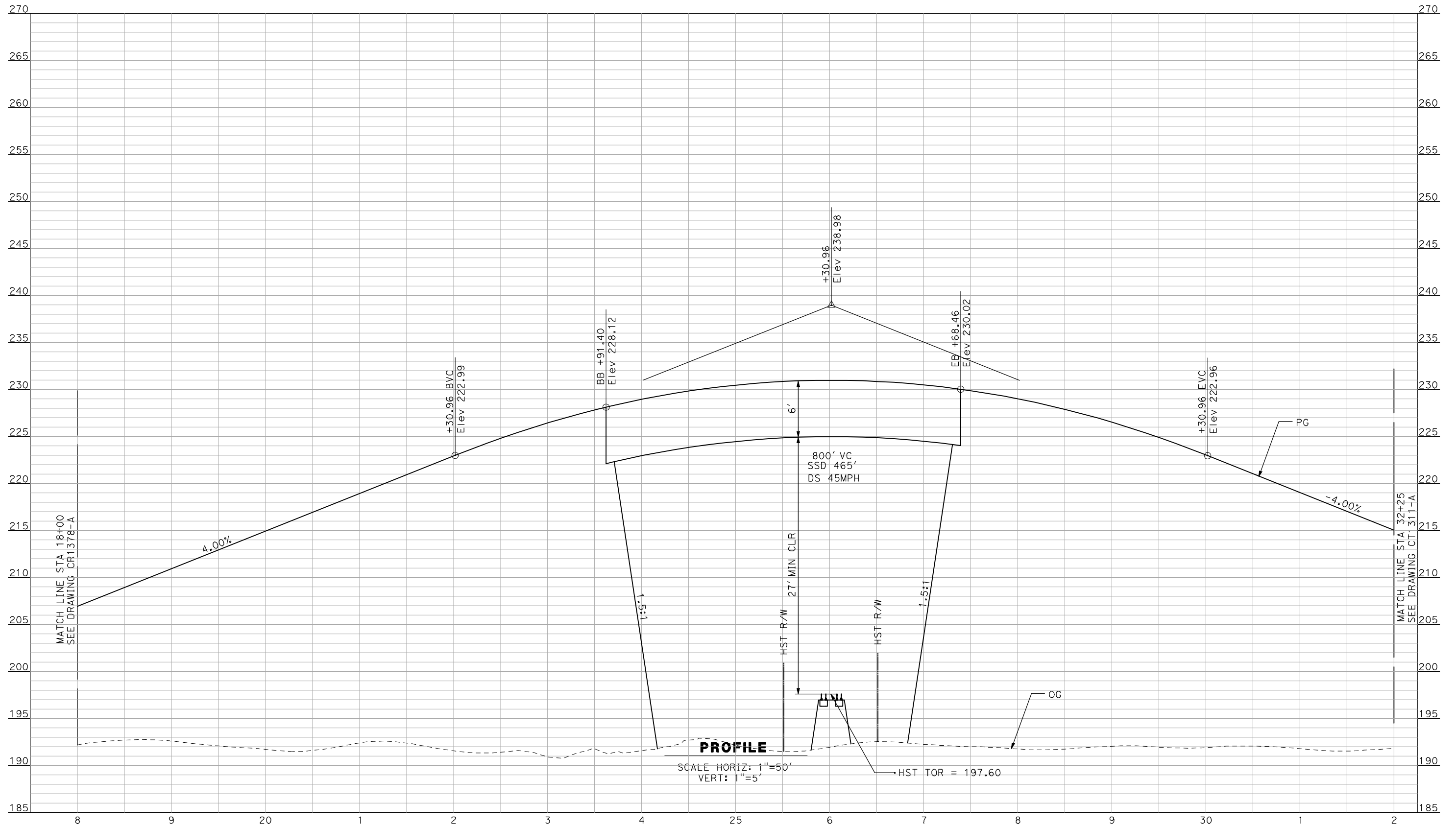
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. ORCHARD DR
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1309-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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 A. BOONE
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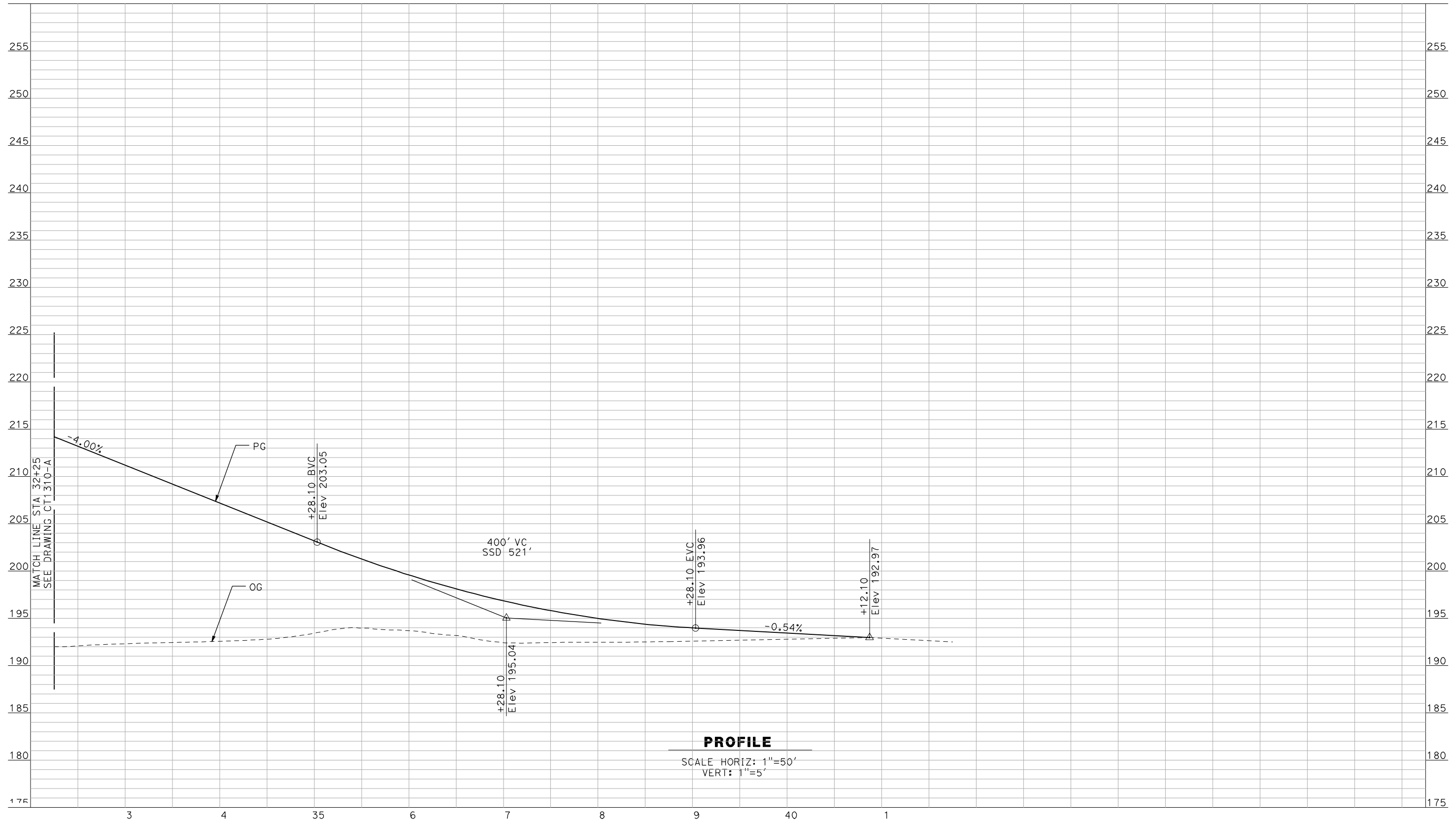
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. ORCHARD DR
PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
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A. BOONE
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 GRADE SEPARATION - S. ORCHARD DR
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1311-A
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AS SHOWN
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OF

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SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE LINE 6
ROADWAY BRIDGE STRUCTURE PLAN					
BNSF AVENUE 24					
GENERAL					
	SB0101	BNSF MAIN LINE	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 1
	SB0201	BNSF MAIN LINE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 1 OF 3
	SB0202	BNSF MAIN LINE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 2 OF 3
	SB0203	BNSF MERCED CONNECTION	AVENUE 24	STRUCTURE INDEX MAP	SHEET 3 OF 3
OVERHEAD BRIDGES					
	ST1001	BNSF MAIN LINE	AVENUE 21	AVENUE 9 OVERHEAD	PLANNING STUDY
	ST1002	BNSF MAIN LINE	AVENUE 21	AVENUE 10 OVERHEAD	PLANNING STUDY
	ST1003	BNSF MAIN LINE	AVENUE 21	AVENUE 11 OVERHEAD	PLANNING STUDY
	ST1004	BNSF MAIN LINE	AVENUE 21	AVENUE 12 OVERHEAD	PLANNING STUDY
	ST1005	BNSF MAIN LINE	AVENUE 21	AVENUE 13 OVERHEAD	PLANNING STUDY
	ST1006	BNSF MAIN LINE	AVENUE 21	AVENUE 15 OVERHEAD	PLANNING STUDY
	ST1007	BNSF MAIN LINE	AVENUE 21	AVENUE 15 1/2 OVERHEAD	PLANNING STUDY
	ST1008	BNSF MAIN LINE	AVENUE 21	RAYMOND ROAD OVERHEAD	PLANNING STUDY
	ST1009	BNSF MAIN LINE	AVENUE 21	AVENUE 17 OVERHEAD	PLANNING STUDY
	ST1012	BNSF MAIN LINE	AVENUE 21	AVENUE 21 OVERHEAD	PLANNING STUDY
	ST1013	BNSF MAIN LINE	AVENUE 21	ROAD 24 OVERHEAD	PLANNING STUDY
	ST1016	BNSF MAIN LINE	AVENUE 21	SANTA FE DRIVE OVERHEAD	PLANNING STUDY
	ST1017	BNSF MERCED CONNECTION	AVENUE 21	BUCHANAN HOLLOW RD OVERHEAD	PLANNING STUDY
	ST1018	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	BURCHELL AVENUE OVERHEAD	PLANNING STUDY
	ST1019	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	PLAINSBLURG ROAD OVERHEAD	PLANNING STUDY
	ST1020	BNSF MERCED CONNECTION	AVENUE 21	ARBOLEDA DRIVE OVERHEAD	PLANNING STUDY
	ST1030	BNSF WYE CONNECTION	AVENUE 24	AVENUE 24 OVERHEAD	PLANNING STUDY
	ST1031	BNSF MAIN LINE	AVENUE 24	AVENUE 26 OVERHEAD	PLANNING STUDY
	ST1032	BNSF MAIN LINE	AVENUE 24	AVENUE 26 OVERHEAD	PLANNING STUDY
	ST1033	BNSF WYE CONNECTION	AVENUE 24	ROAD 21 OVERHEAD	PLANNING STUDY
	ST1034	BNSF WYE CONNECTION	AVENUE 24	AVENUE 24 OVERHEAD	PLANNING STUDY
	ST1035	BNSF MAIN LINE	AVENUE 24	AVENUE 20 OVERHEAD	PLANNING STUDY
	ST1036	BNSF MAIN LINE	AVENUE 24	AVENUE 20 1/2 OVERHEAD	PLANNING STUDY
	ST1037	BNSF MAIN LINE	AVENUE 24	AVENUE 20 1/2 OVERHEAD	PLANNING STUDY
	ST1038	BNSF MAIN LINE	AVENUE 24	ROAD 24 OVERHEAD	PLANNING STUDY
	ST1039	BNSF MAIN LINE	AVENUE 24	ROAD 24 OVERHEAD	PLANNING STUDY
	ST1040	BNSF MAIN LINE	AVENUE 24	ROAD 22 OVERHEAD	PLANNING STUDY
	ST1041	BNSF MAIN LINE	AVENUE 24	AVENUE 23 1/2 OVERHEAD	PLANNING STUDY
	ST1042	BNSF MAIN LINE	AVENUE 24	ROAD 16 OVERHEAD	PLANNING STUDY
	ST1043	BNSF MAIN LINE	AVENUE 24	ROAD 15 OVERHEAD	PLANNING STUDY
	ST1044	BNSF MAIN LINE	AVENUE 24	ROAD 14 OVERHEAD	PLANNING STUDY
	ST1045	BNSF MAIN LINE	AVENUE 24	ROAD 13 OVERHEAD	PLANNING STUDY
	ST1046	BNSF MAIN LINE	AVENUE 24	ROAD 10 OVERHEAD	PLANNING STUDY
	ST1047	BNSF MAIN LINE	AVENUE 24	ROAD 9 OVERHEAD	PLANNING STUDY
	ST1070	BNSF MAIN LINE	AVENUE 21	AVENUE 7 OVERHEAD	PLANNING STUDY
	ST1180	UPRR/SR 99 MERCED CONNECTION	AVENUE 21	G STREET OVERHEAD	PLANNING STUDY

SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE LINE 6
DESIGN OPTION ALTERNATIVE 1					
	ST1050	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	WHITE ROCK ROAD OVERHEAD	PLANNING STUDY
	ST1051	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	LE GRAND ROAD OVERHEAD	PLANNING STUDY
	ST1052	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	FRESNO ROAD OVERHEAD	PLANNING STUDY
	ST1053	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	CUNNINGHAM ROAD OVERHEAD	PLANNING STUDY
	ST1054	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	BURCHELL AVENUE OVERHEAD	PLANNING STUDY
DESIGN OPTION ALTERNATIVE 2					
	ST1055	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	LE GRAND ROAD OVERHEAD	PLANNING STUDY
	ST1056	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	FRESNO ROAD OVERHEAD	PLANNING STUDY
	ST1057	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	CUNNINGHAM ROAD OVERHEAD	PLANNING STUDY
	ST1058	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	PLAINSBLURG ROAD OVERHEAD	PLANNING STUDY
DESIGN OPTION ALTERNATIVE 3					
	ST1059	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	SANTA FE AVENUE OVERHEAD	PLANNING STUDY
	ST1060	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	PLAINSBLURG ROAD OVERHEAD	PLANNING STUDY
	ST1061	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	SOUTH ARBOLEDA DRIVE OVERHEAD	PLANNING STUDY
	ST1062	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	SOUTH ORCHARD DRIVE OVERHEAD	PLANNING STUDY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. Lee
DRAWN BY
E. CISNEROS
CHECKED BY
J. RENTERIA
IN CHARGE
A. Boone
DATE
04/29/2011

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CONSTRUCTION**



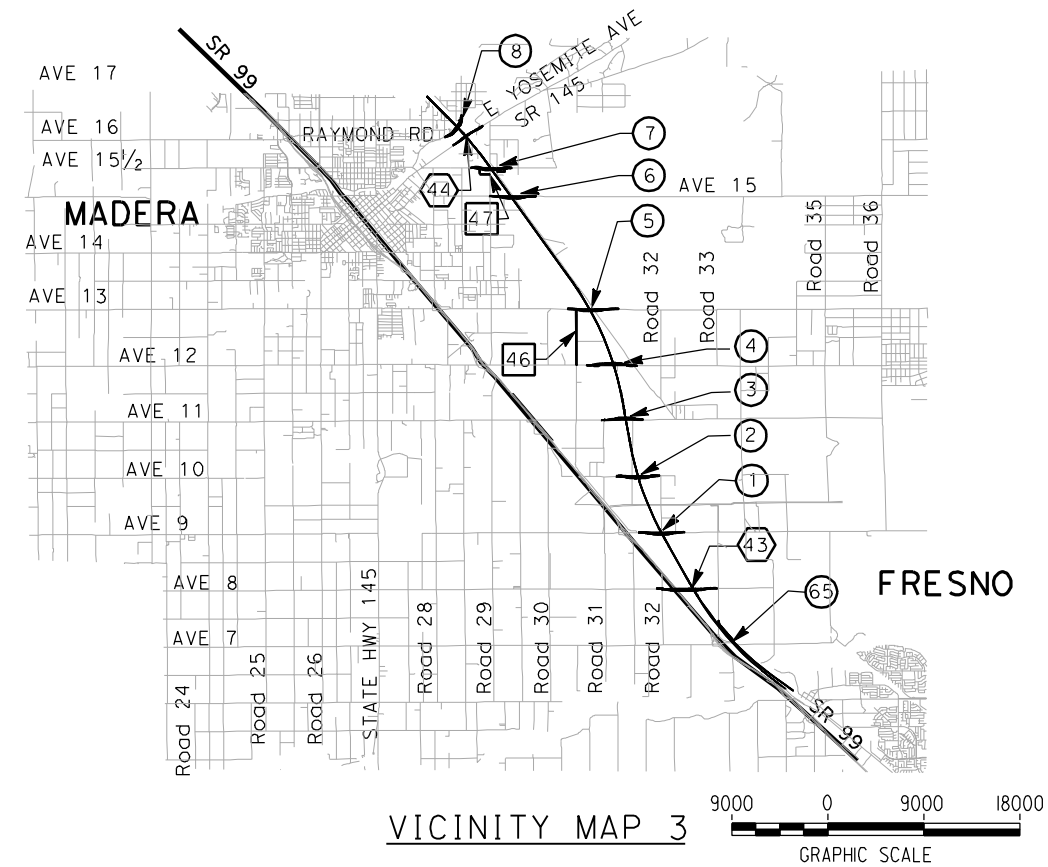
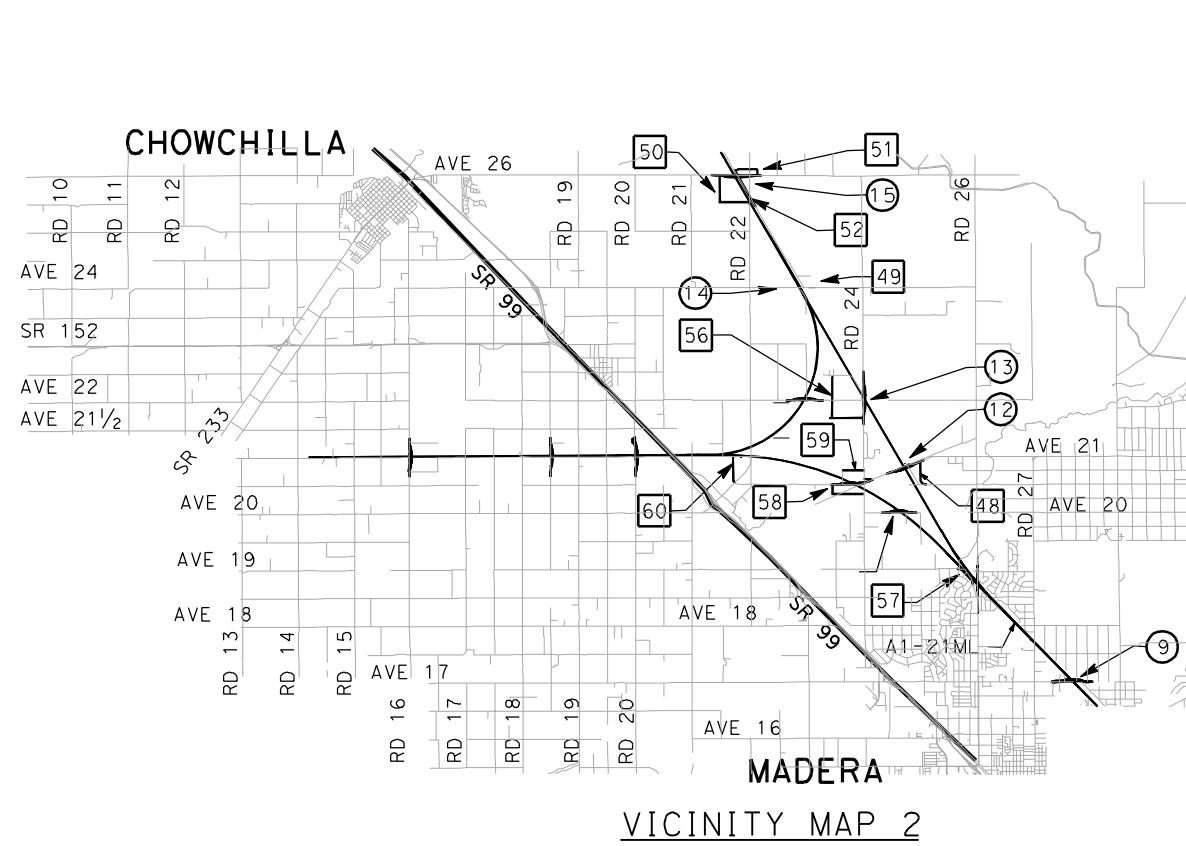
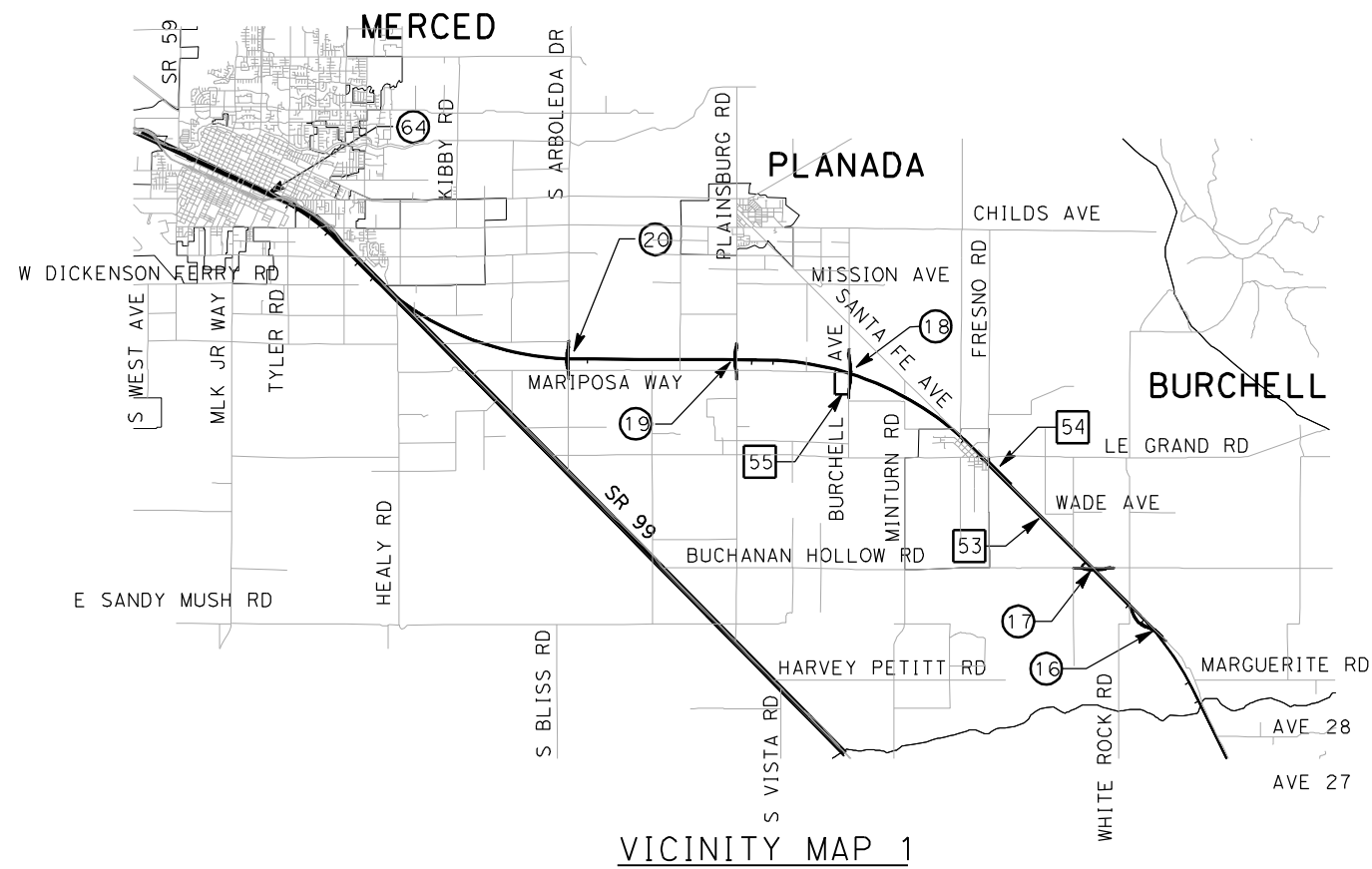
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO.
HSR06-007
DRAWING NO.
SB0101
SCALE
No scale
SHEET NO.
OF

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LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
1	AVENUE 9 OVERHEAD	ST1001	CT0001-A - CT0003-A
2	AVENUE 10 OVERHEAD	ST1002	CT0004-A - CT0006-A
3	AVENUE 11 OVERHEAD	ST1003	CT0007-A - CT0009-A
4	AVENUE 12 OVERHEAD	ST1004	CT0010-A - CT0012-A
5	AVENUE 13 OVERHEAD	ST1005	CT0013-A - CT0016-A
6	AVENUE 15 OVERHEAD	ST1006	CT0017-A - CT0019-A
7	AVENUE 15 1/2 OVERHEAD	ST1007	CT0020-A - CT0022-A
8	RAYMOND ROAD OVERHEAD	ST1008	CT0023-A - CT0025-A
9	AVENUE 17 OVERHEAD	ST1009	CT0026-A - CT0028-A
12	AVENUE 21 OVERHEAD	ST1012	CT0035-A - CT0037-A
13	ROAD 24 OVERHEAD	ST1013	CT0038-A - CT0040-A
16	SANTA FE DRIVE OVERHEAD	ST1016	CT0048-A - CT0050-A
17	BUCHANAN HOLLOW ROAD OVERHEAD	ST1017	CT0051-A - CT0053-A
18	BURCHELL AVENUE OVERHEAD	ST1018	CT0054-A - CT0056-A
19	PLAINSBURG ROAD OVERHEAD	ST1019	CT0057-A - CT0059-A
20	ARBOLEDA DRIVE OVERHEAD	ST1020	CT0060-A - CT0062-A
64	G STREET OVERHEAD	ST1180	
65	AVENUE 7 OVERHEAD	ST1070	



LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- (X) - INDICATES CALTRANS FACILITIES MODIFICATION
- (X) - INDICATES LOCAL ROAD RELOCATION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. Lee
DRAWN BY
E. CISNEROS
CHECKED BY
J. ZANDIAN
IN CHARGE
A. Boone
DATE
04/29/2011

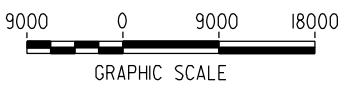
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



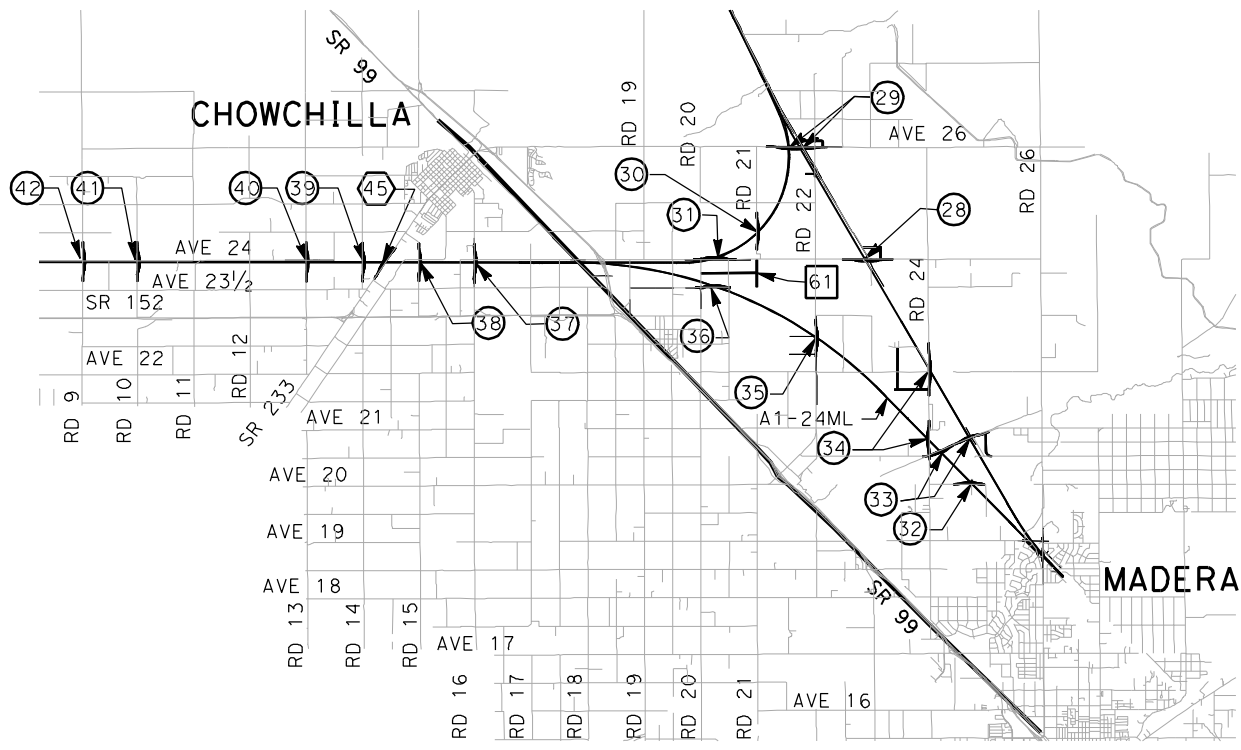
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
SB0201
SCALE
As shown
SHEET NO.
OF



5/1/2011 5:33:23 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\Map\15%_cost_reduction_submittal\GradeStructure\A1 Ave 24 non Caltrans\SB0202.dgn

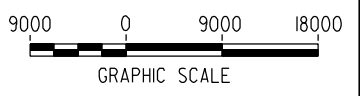
LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
28	AVENUE 24 OVERHEAD	ST1030	CT0100-A - CT0102-A
29	AVENUE 26 OVERHEAD	ST1031 & ST1032	CT0103-A - CT0106-A
30	ROAD 21 OVERHEAD	ST1033	CT0107-A - CT0109-A
31	AVENUE 24 OVERHEAD	ST1034	CT0110-A - CT0112-A
32	AVENUE 20 OVERHEAD	ST1035	CT0113-A - CT0115-A
33	AVENUE 20½ OVERHEAD	ST1036 & ST1037	CT0116-A - CT0118-A
34	ROAD 24 OVERHEAD	ST1038 & ST1039	CT0119-A - CT0121-A
35	ROAD 22 OVERHEAD	ST1040	CT0122-A - CT0124-A
36	AVENUE 23½ OVERHEAD	ST1041	CT0125-A - CT0127-A
37	ROAD 16 OVERHEAD	ST1042	CT0128-A - CT0130-A
38	ROAD 15 OVERHEAD	ST1043	CT0131-A - CT0133-A
39	ROAD 14 OVERHEAD	ST1044	CT0134-A - CT0136-A
40	ROAD 13 OVERHEAD	ST1045	CT0137-A - CT0139-A
41	ROAD 10 OVERHEAD	ST1046	CT0140-A - CT0142-A
42	ROAD 9 OVERHEAD	ST1047	CT0143-A - CT0145-A
45	CALTRANS - SR 233		
61	LOCAL ROAD - ROAD XXXX		



VICINITY MAP 4

LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- (X) - INDICATES CALTRANS FACILITIES MODIFICATION
- (X) - INDICATES LOCAL ROAD RELOCATION



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. Lee
DRAWN BY
E. CISNEROS
CHECKED BY
J. ZANDIAN
IN CHARGE
A. Boone
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

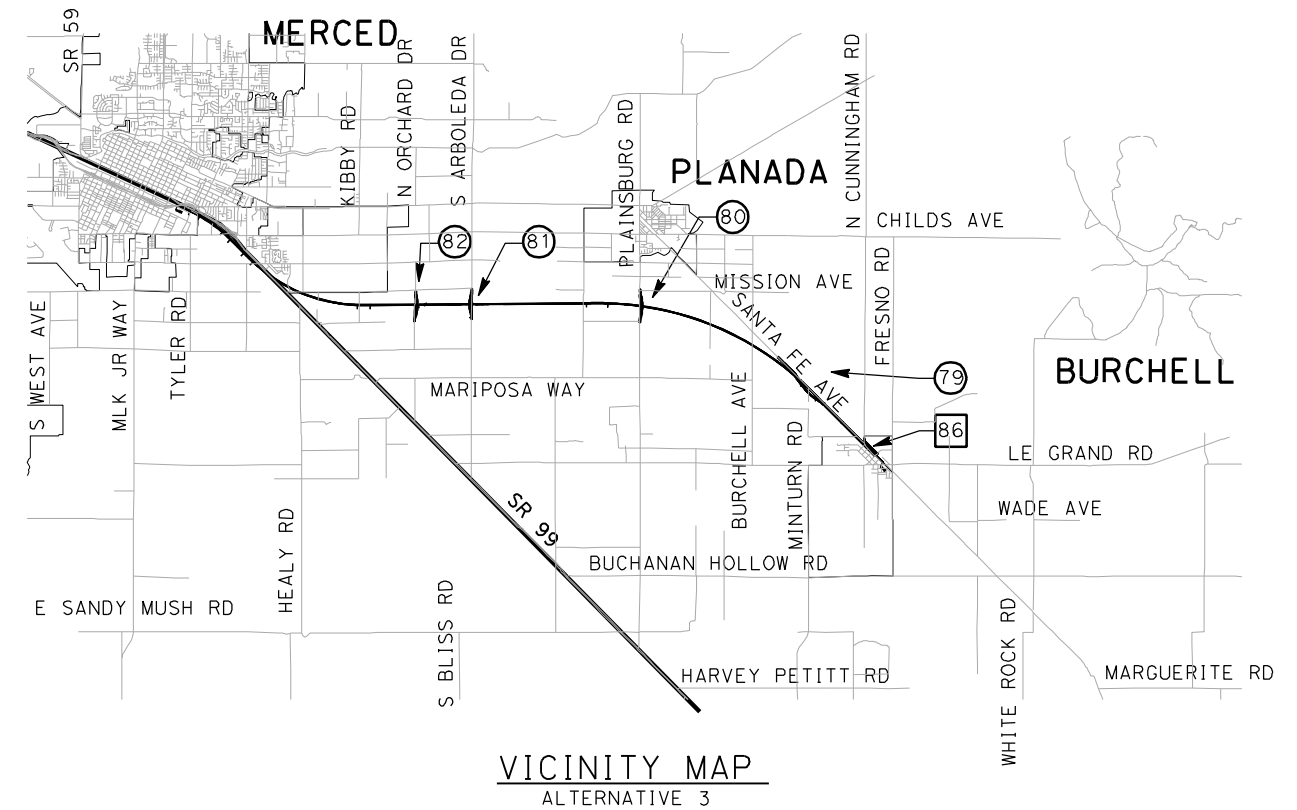
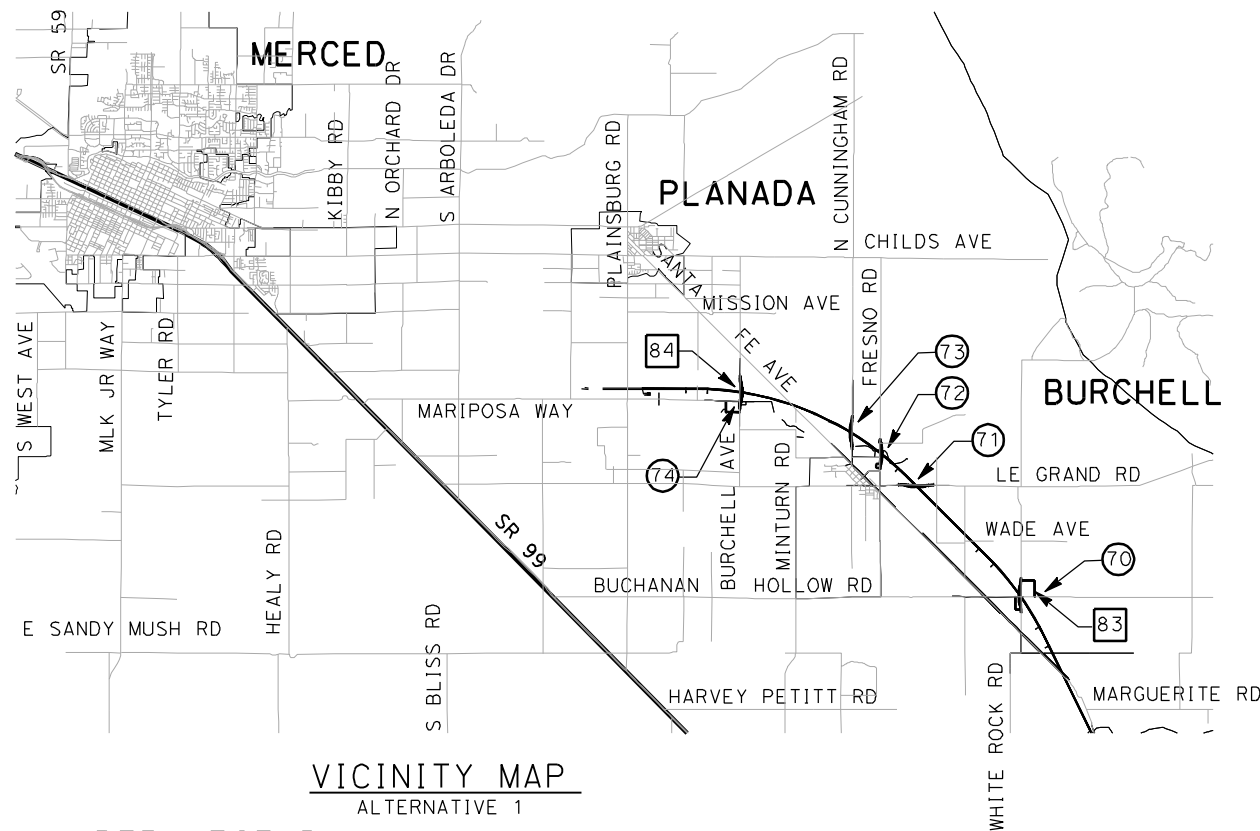
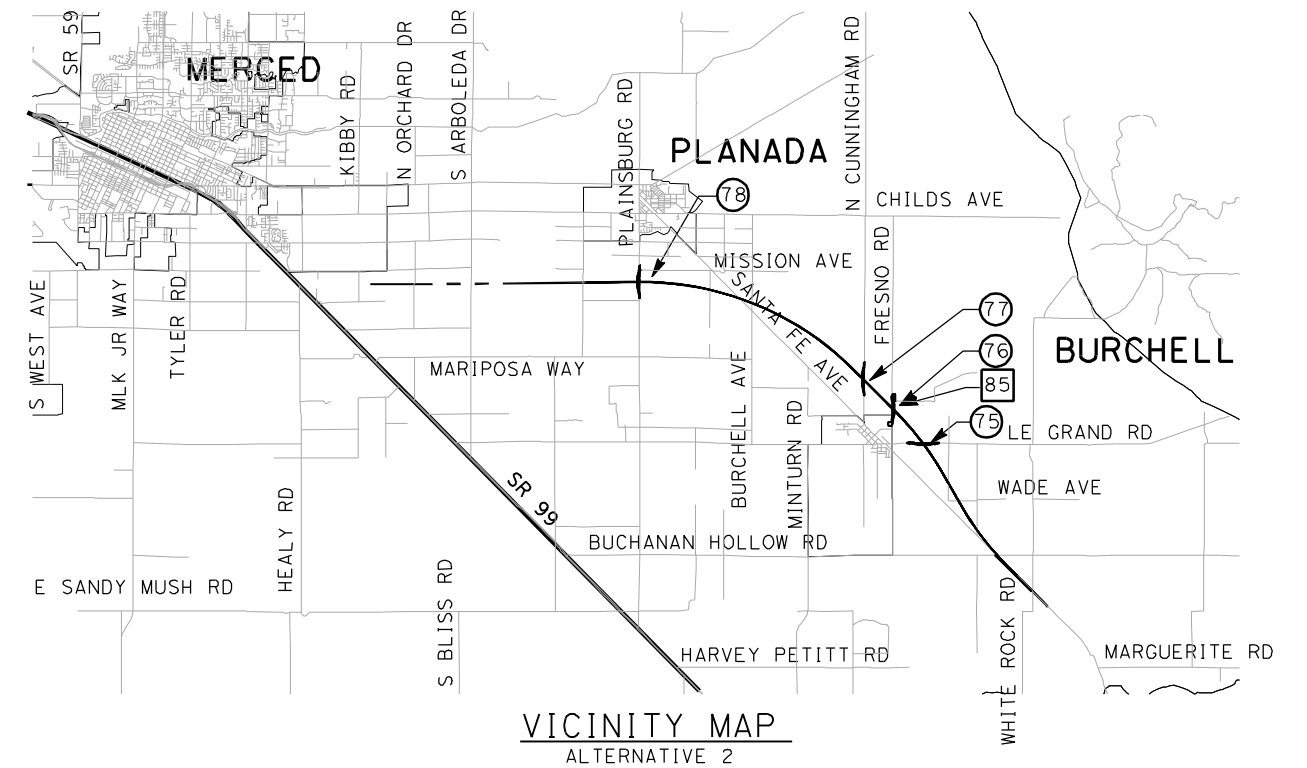


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
SB0202
SCALE
As shown
SHEET NO.
OF

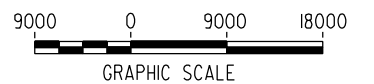
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LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
70	WHITE ROCK ROAD OVERHEAD	ST1050	CT0200-A - CT0202-A
71	LE GRAND ROAD OVERHEAD	ST1051	CT0203-A - CT0205-A
72	FRESNO ROAD OVERHEAD	ST1052	CT0206-A - CT0208-A
73	CUNNINGHAM ROAD OVERHEAD	ST1053	CT0209-A - CT0211-A
74	BURCHELL AVENUE OVERHEAD	ST1054	CT0212-A - CT0214-A
75	LE GRAND ROAD OVERHEAD	ST1055	CT0250-A - CT0252-A
76	FRESNO ROAD OVERHEAD	ST1056	CT0253-A - CT0255-A
77	CUNNINGHAM ROAD OVERHEAD	ST1057	CT0256-A - CT0258-A
78	PLAINSBURG ROAD OVERHEAD	ST1058	CT0259-A - CT0261-A
79	SANTA FE AVENUE OVERHEAD	ST1059	CT0300-A - CT0302-A
80	PLAINSBURG ROAD OVERHEAD	ST1060	CT0303-A - CT0305-A
81	SOUTH ARBOLEDA ROAD OVERHEAD	ST1061	CT0306-A - CT0308-A
82	SOUTH ORCHARD DRIVE OVERHEAD	ST1062	CT0309-A - CT0311-A
83	LOCAL ROAD - WHITE ROCK		
84	LOCAL ROAD - BURCHELL		
85	LOCAL ROAD - FRESNO		
86	LOCAL ROAD - SANTA FE		



LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- (X) - INDICATES CALTRANS FACILITIES MODIFICATION
- (X) - INDICATES LOCAL ROAD RELOCATION



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. Lee
DRAWN BY
E. Cisneros
CHECKED BY
J. Zandian
IN CHARGE
A. Boone
DATE
04/29/2011

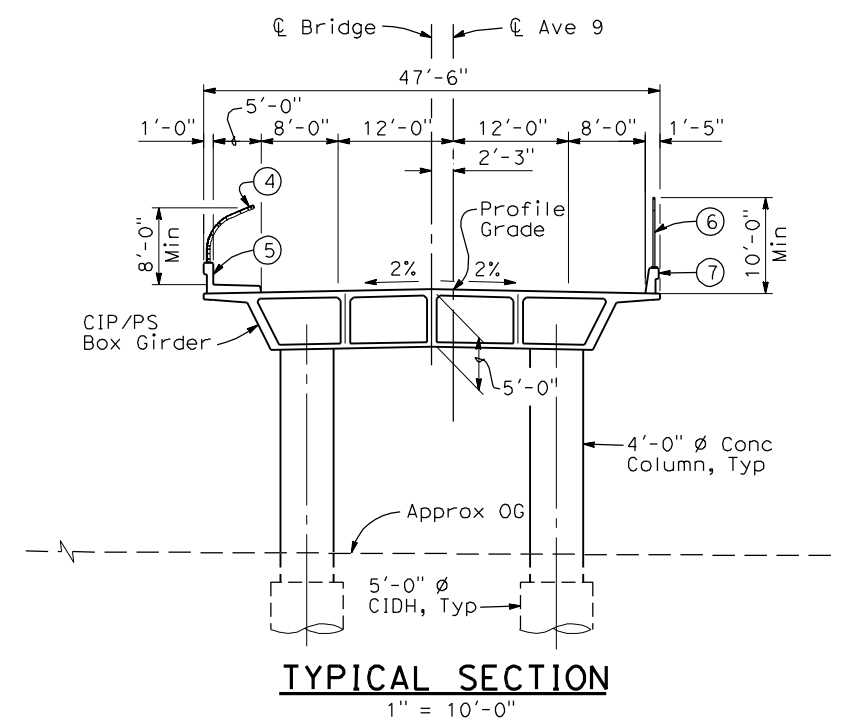
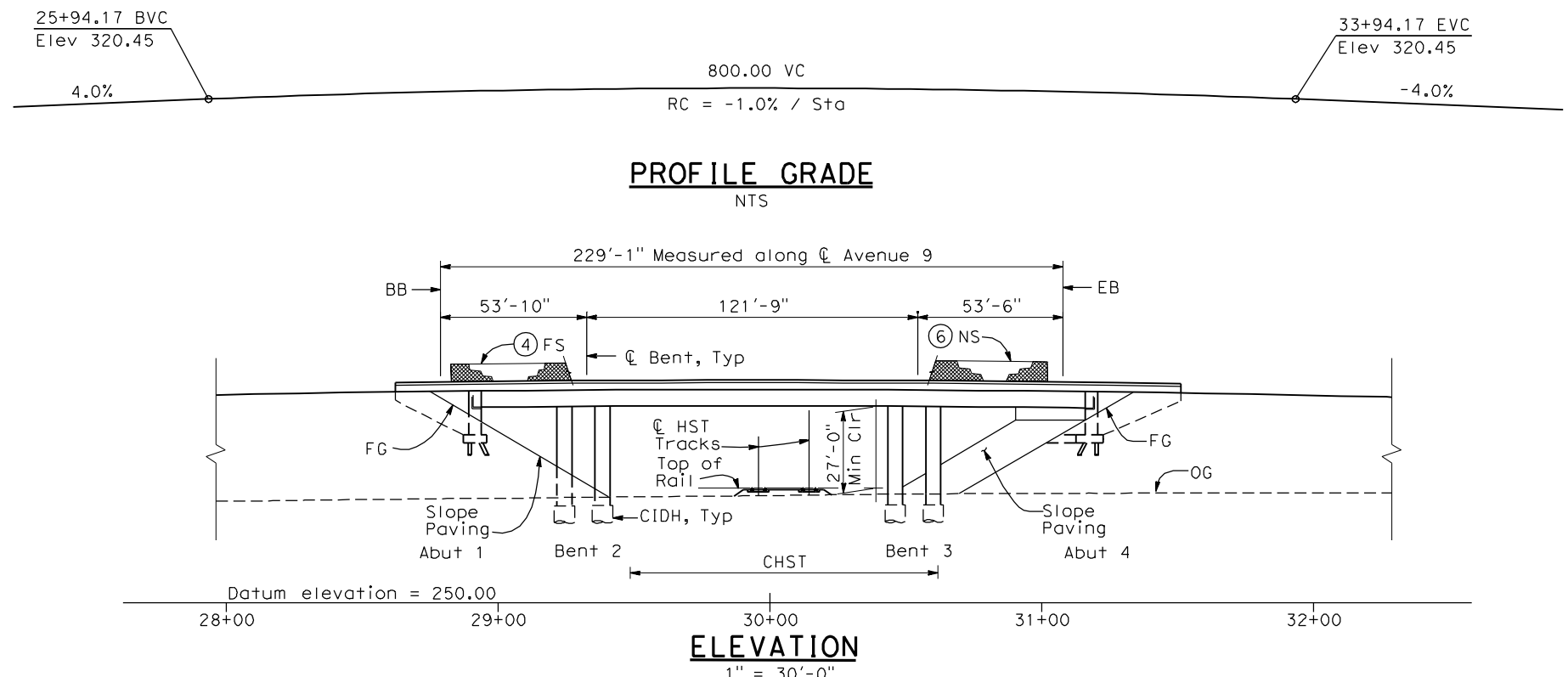
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 24
STRUCTURE INDEX MAP
SHEET 3 OF 3

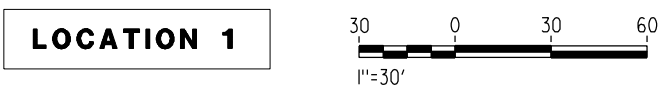
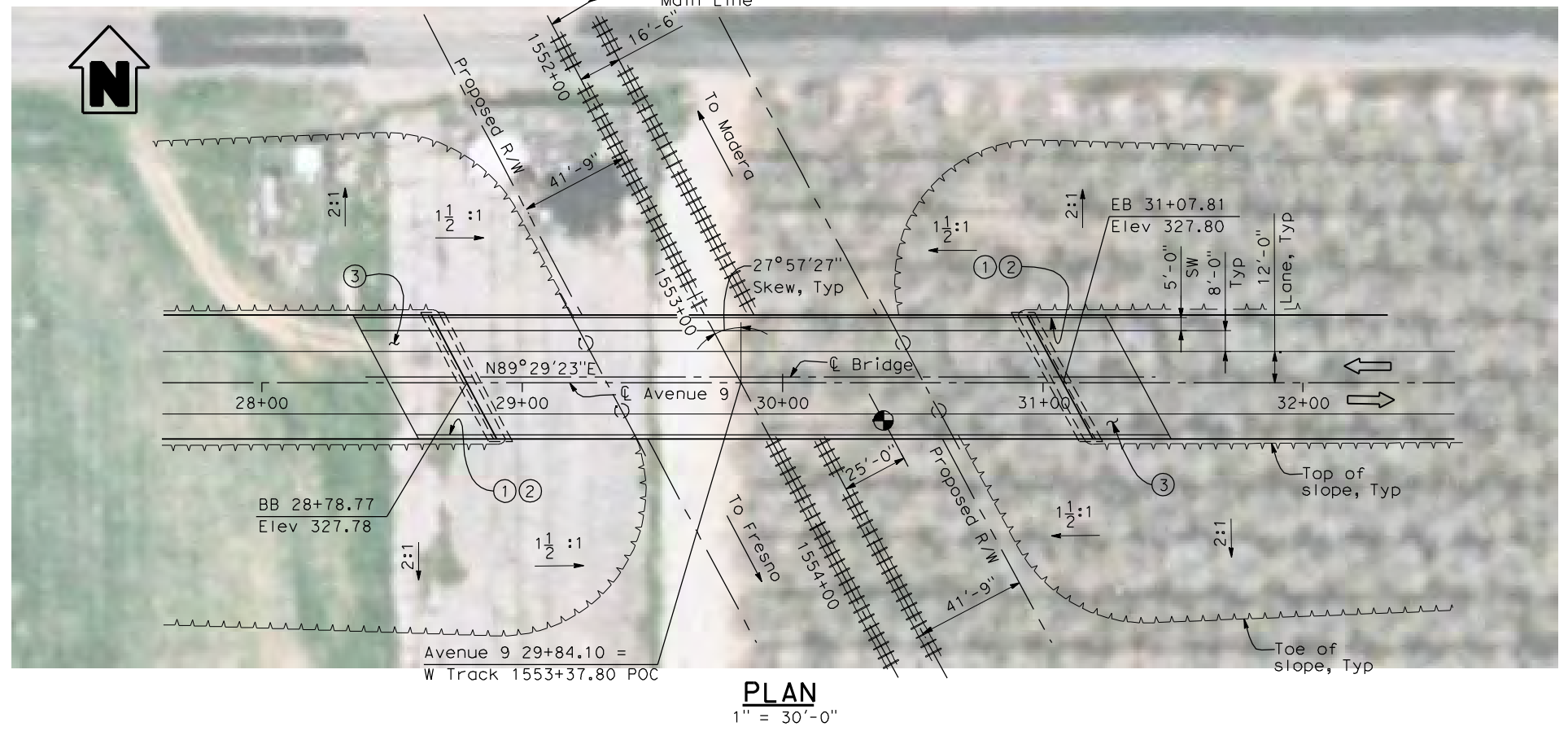
CONTRACT NO.
HSR06-007
DRAWING NO.
SB0203
SCALE
As shown
SHEET NO.
OF



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Avenue 9 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Bearing of Avenue 9 to be determined.
 9. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	229'-1"
WIDTH	=	47'-6"
AREA	=	10,880 ft ²
COST/□FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



4/28/2011 4:30:40 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21ML2.W-ML-ST-OH_Ave_9.dgn

DESIGNED BY H. LEE	RECORD SET 15% DESIGN SUBMITTAL
DRAWN BY E. CISNEROS	NOT FOR CONSTRUCTION
CHECKED BY J. RENTERIA	
IN CHARGE A. BOONE	
DATE 04/29/2011	

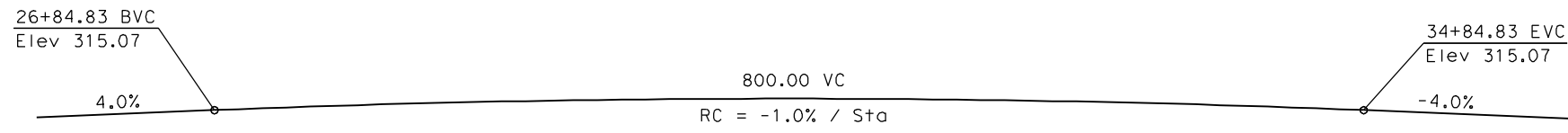
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

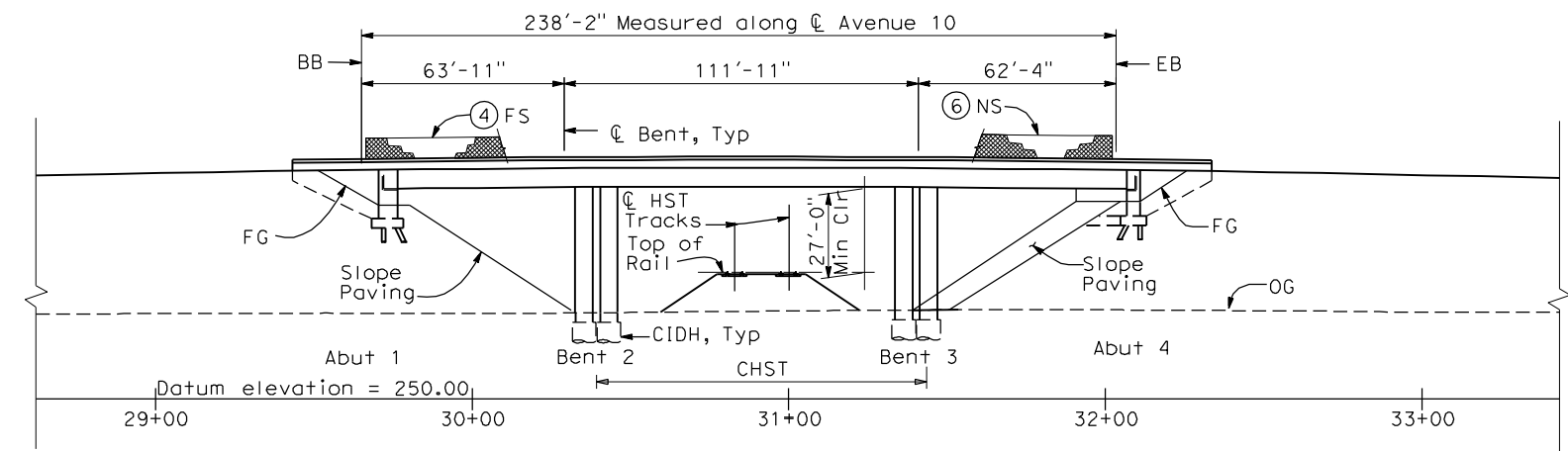


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 9 OVERHEAD
PLANNING STUDY

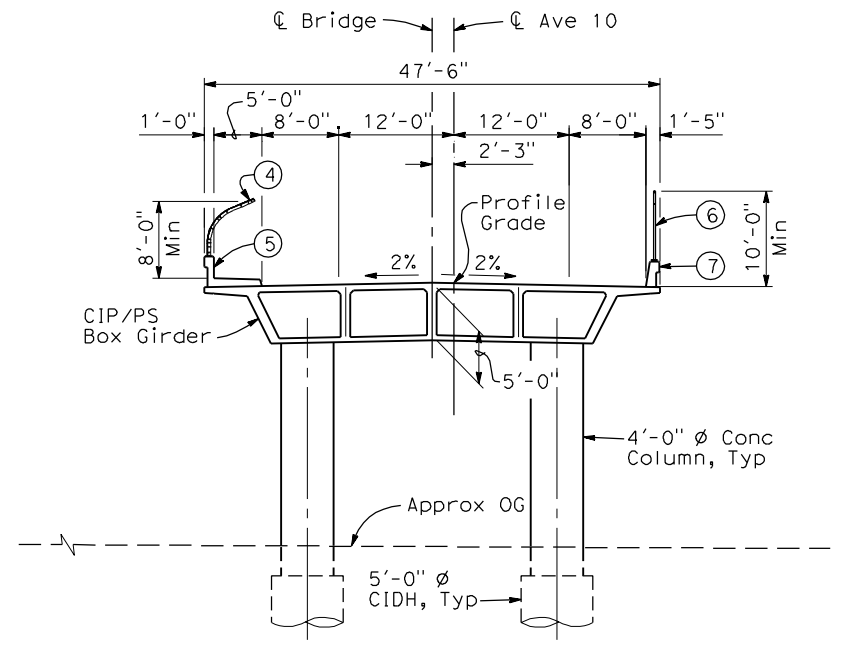
CONTRACT NO.	HSR06-007
DRAWING NO.	ST1001
SCALE	As shown
SHEET NO.	OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"

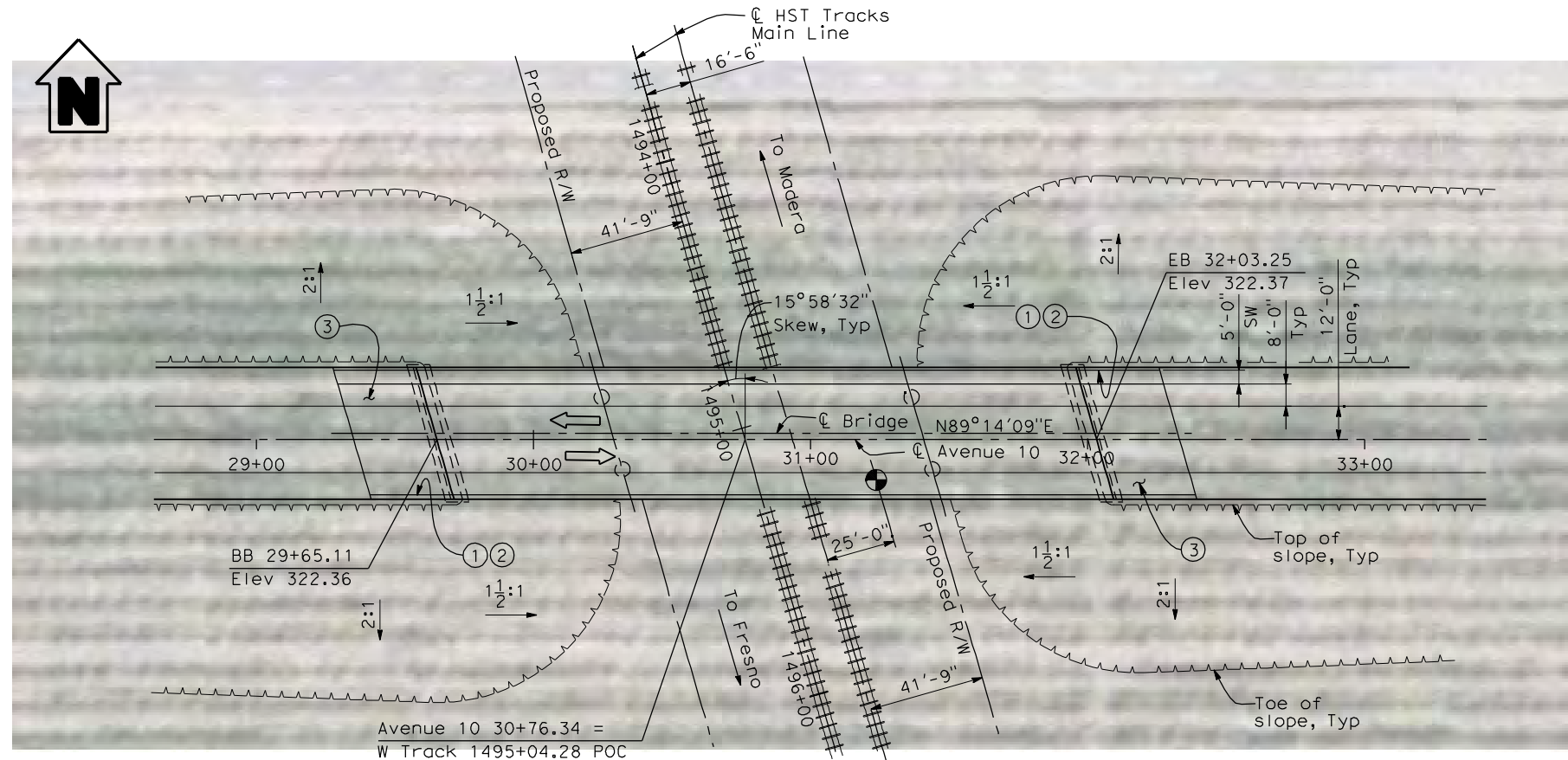


TYPICAL SECTION
1" = 10'-0"

- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Avenue 10 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 - 8 Bearing of Avenue 10 to be determined.
 - 9 Existing underground and overhead utilities to be determined.

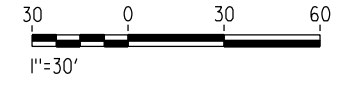
- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	238'-2"
WIDTH	=	47'-6"
AREA	=	11,312 ft ²
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



PLAN
1" = 30'-0"

LOCATION 2



4/30/2011 5:01:40 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\A1-2\ML2\W-ML-ST-OH_Ave_10.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
J. RENTERIA
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**

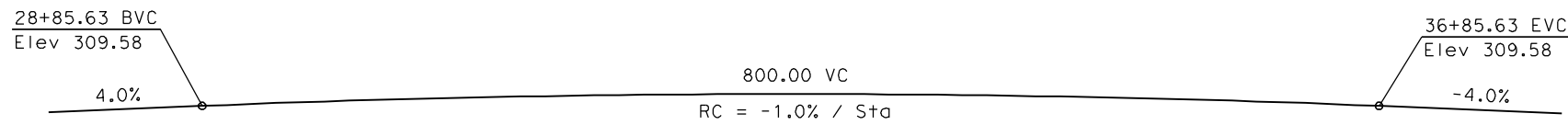
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

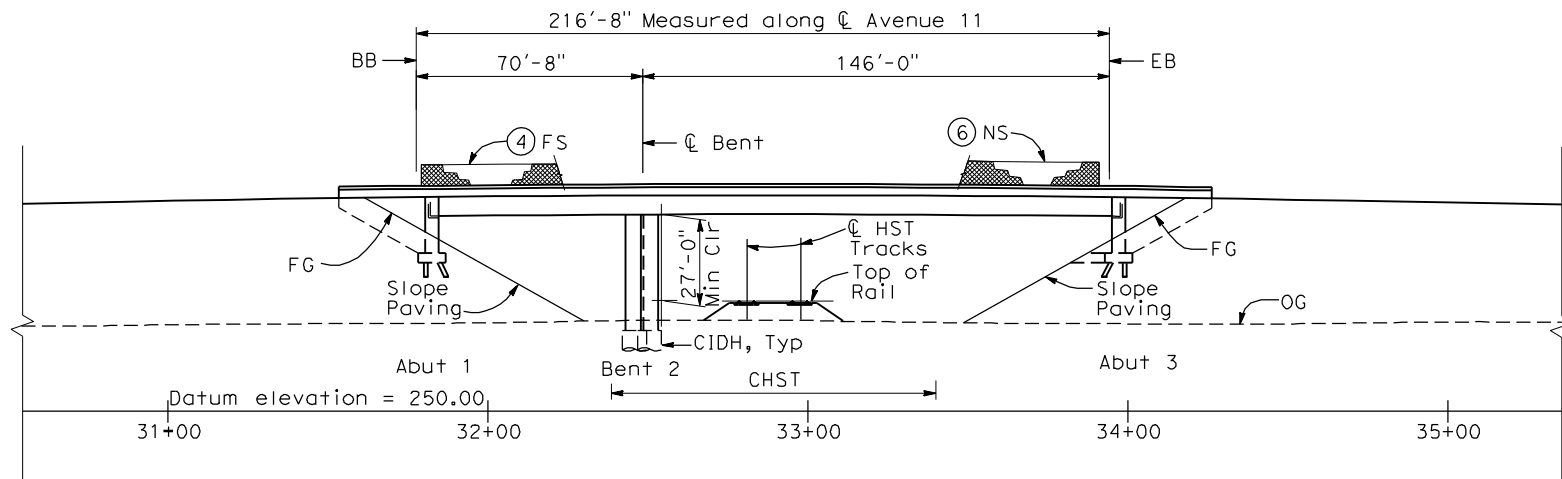
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 10 OVERHEAD
PLANNING STUDY

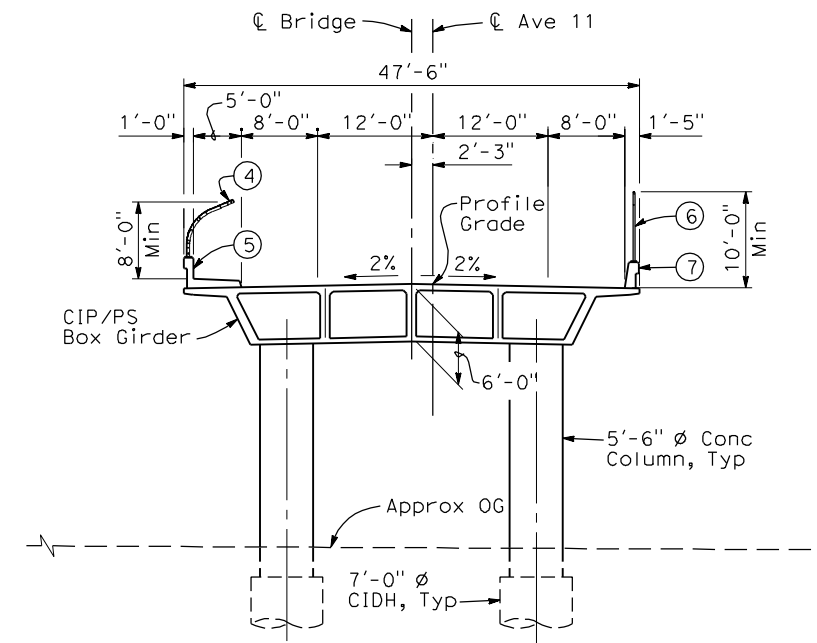
CONTRACT NO.	HSR06-007
DRAWING NO.	ST1002
SCALE	As shown
SHEET NO.	OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

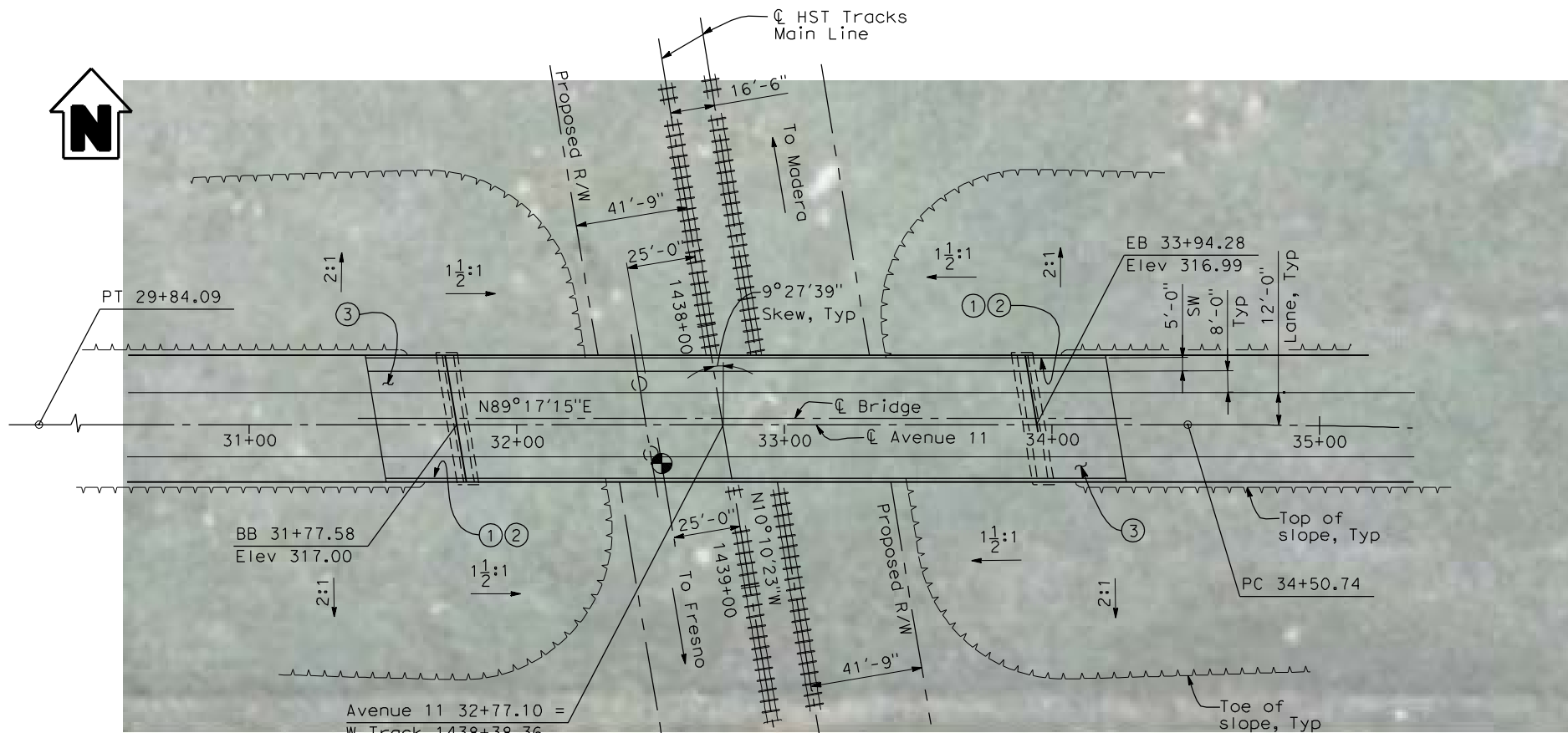
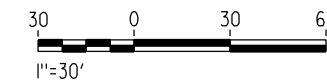
- ① Paint "Bridge No. XX-XX"
- ② Paint "Avenue 11 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
- 8 Bearing of Avenue 11 to be determined.
- 9 Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	216'-8"
WIDTH	=	47'-6"
AREA	=	10,294 ft ²
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____

LOCATION 3



PLAN
1" = 30'-0"

4/30/2011 5:19:06 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21ML2.W-ML-ST-OH_Ave_11.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
J. RENTERIA
IN CHARGE
A. BOONE
DATE
04/29/2011

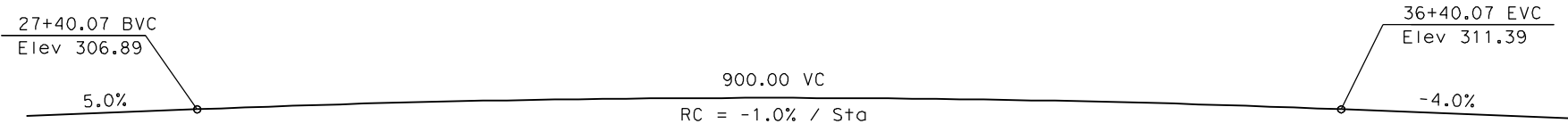
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

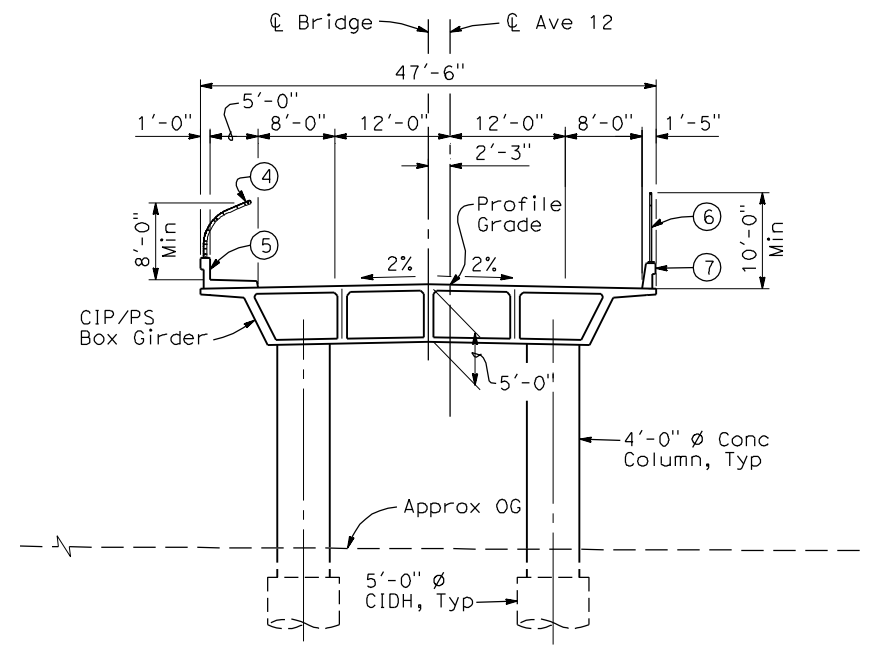


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 11 OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1003
SCALE
As shown
SHEET NO.
OF



PROFILE GRADE
NTS



TYPICAL SECTION
1" = 10'-0"

NOTES:

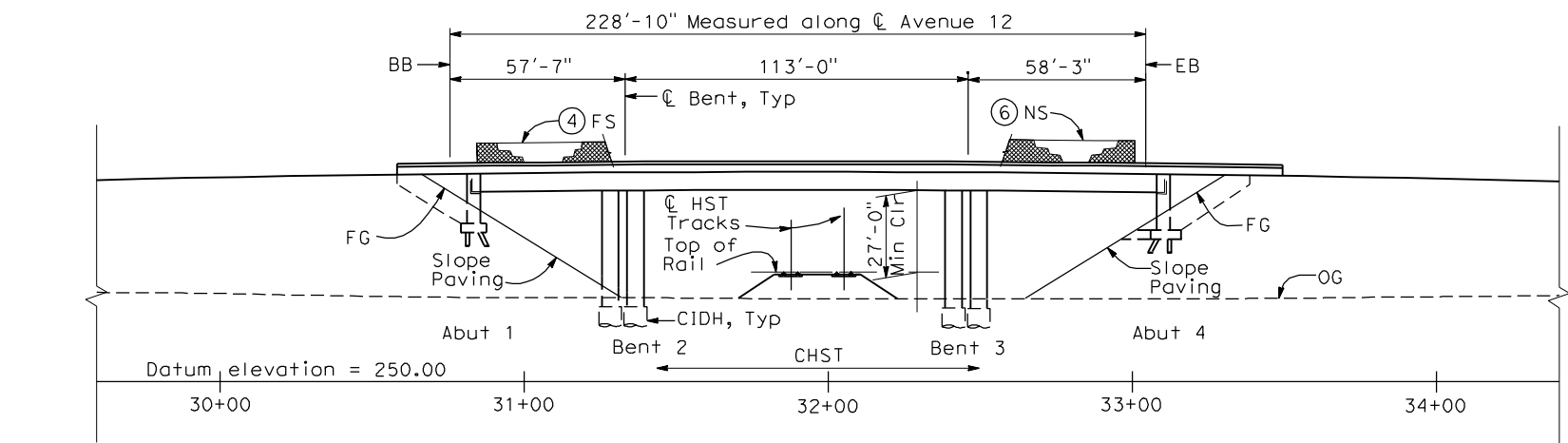
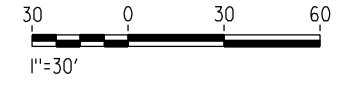
- ① Paint "Bridge No. XX-XX"
- ② Paint "Avenue 12 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
- 8 Bearing of Avenue 12 to be determined.
- 9 Existing underground and overhead utilities to be determined.

LEGEND:

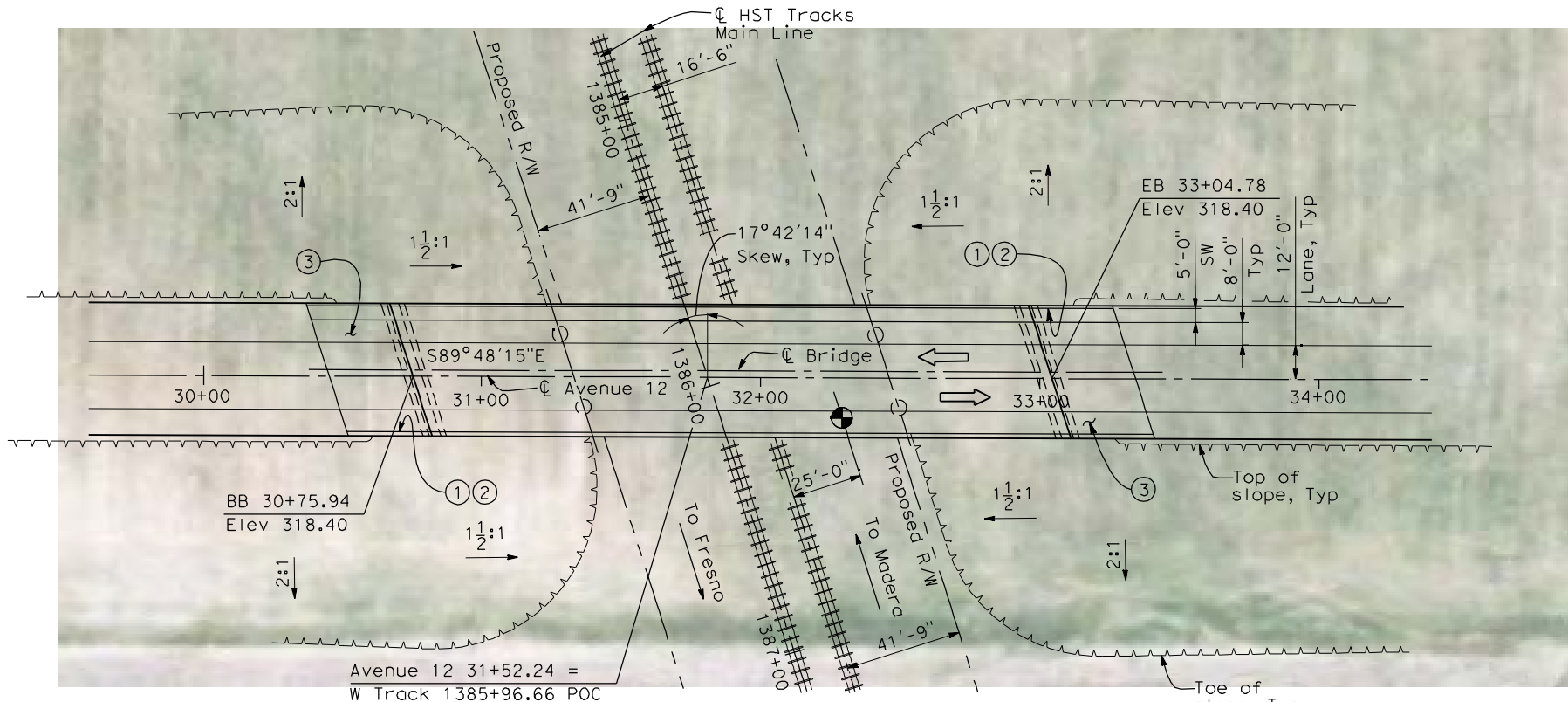
- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	228'-10"
WIDTH	=	47'-6"
AREA	=	10,870 ft ²
COST/CFE INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 4



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"

4/30/2011 5:28:01 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21ML2.W-ML-ST-OH_Ave_12.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
J. RENTERIA
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

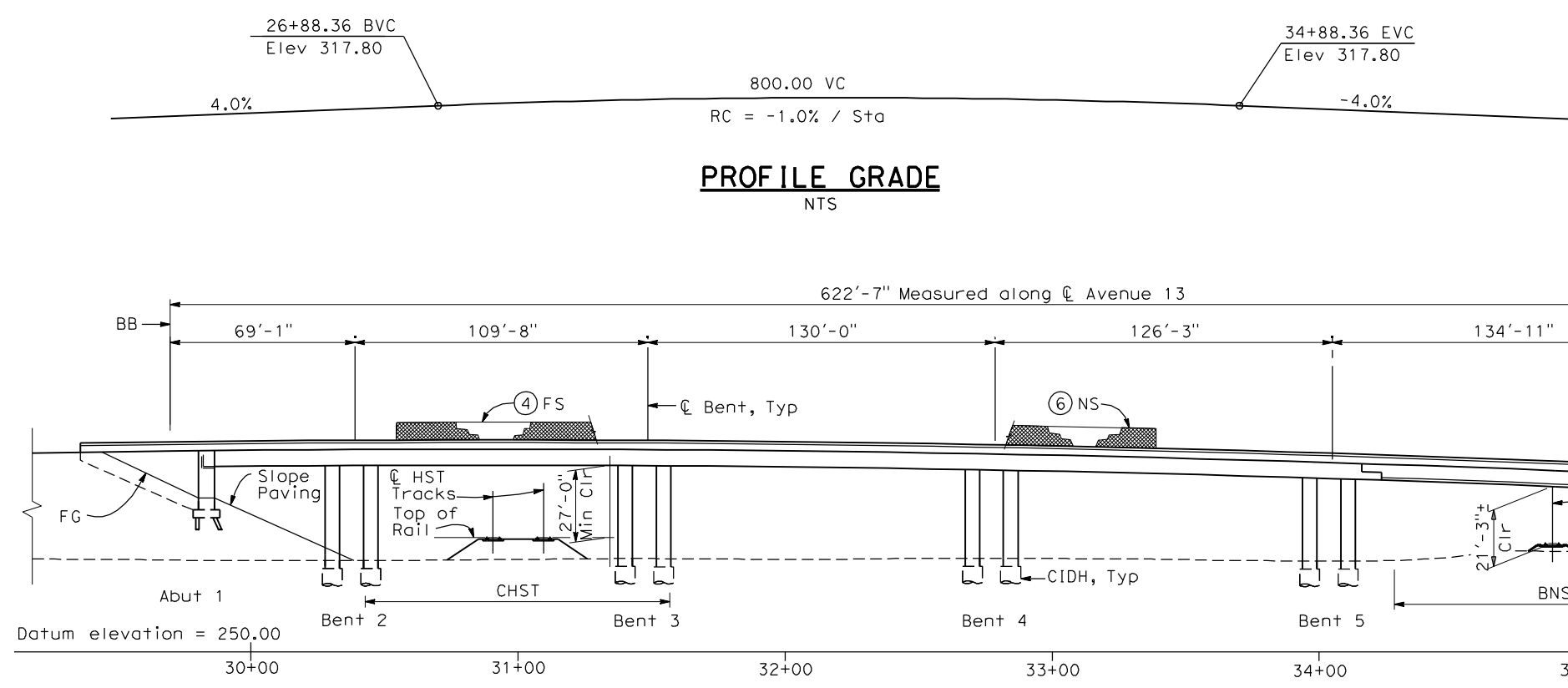
**NOT FOR
CONSTRUCTION**



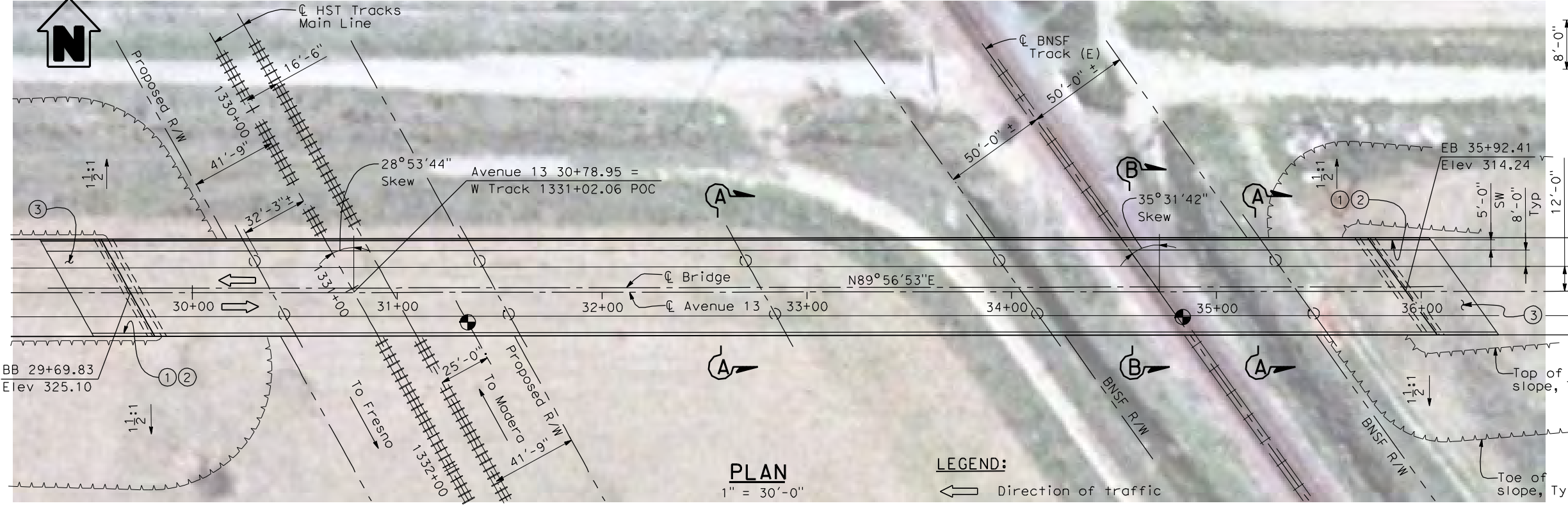
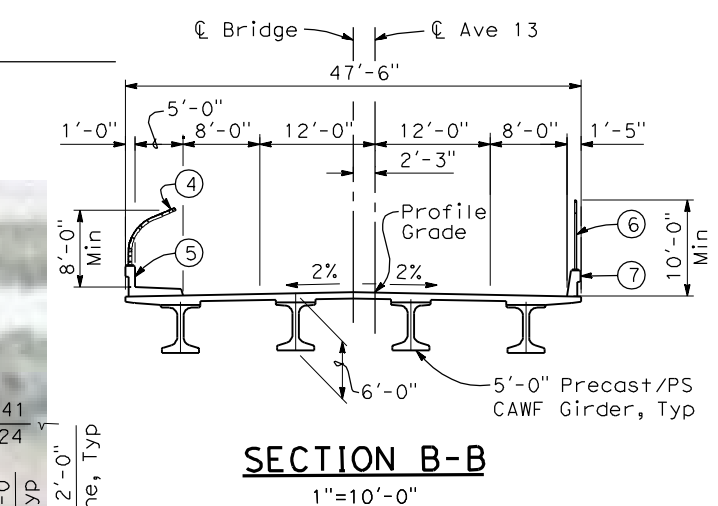
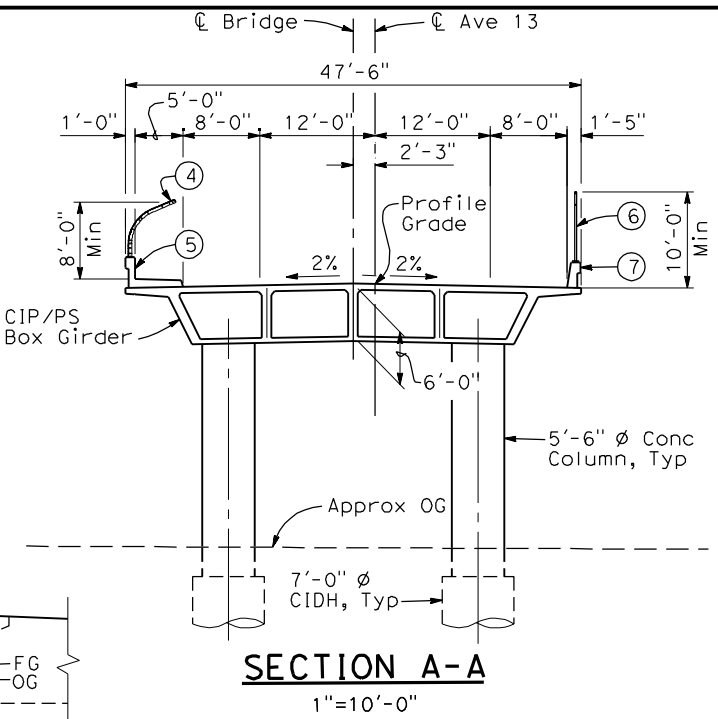
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 12 OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1004
SCALE
As shown
SHEET NO.
OF

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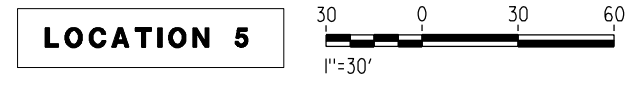


DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	622'-7"
WIDTH	=	47'-6"
AREA	=	28,860 ft ²
COST/CFRT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



- NOTES:**
- ① Point "Bridge No. XX-XX"
 - ② Point "Avenue 13 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Bearing of Avenue 13 to be determined.
 9. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - ⊙ Point of minimum vertical clearance
 - P+ = Petroleum
 - UG = Underground



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
 DRAWN BY
E. CISNEROS
 CHECKED BY
J. RENTERIA
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

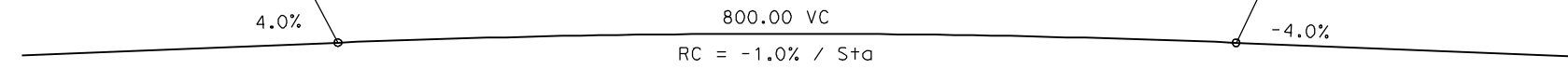


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE
 AVENUE 21
 AVENUE 13 OVERHEAD
 PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1005
SCALE	As shown
SHEET NO.	OF

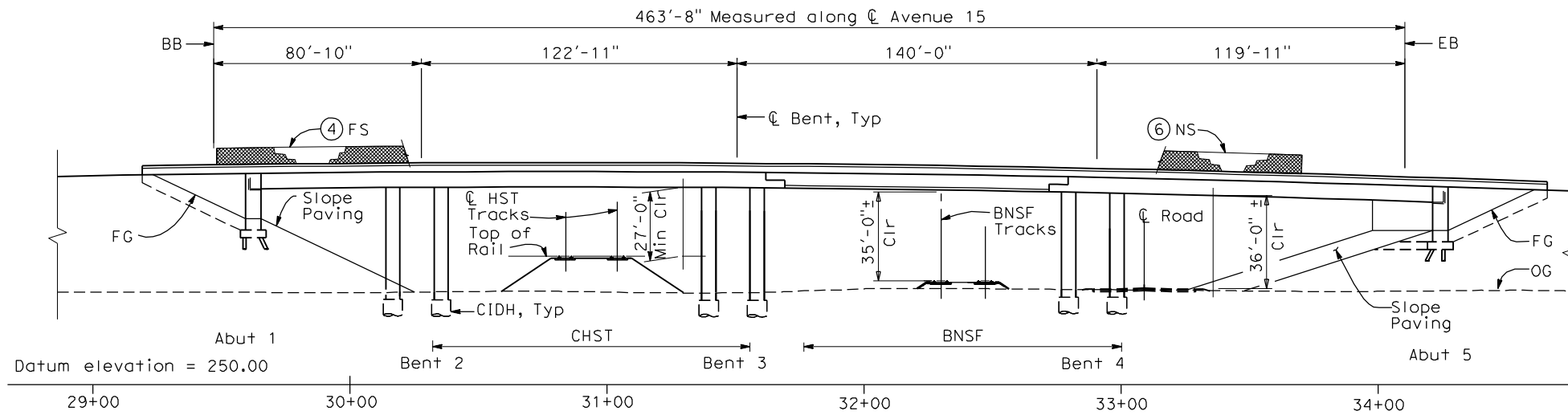
26+78.95 BVC
Elev 324.85

34+78.95 EVC
Elev 324.85

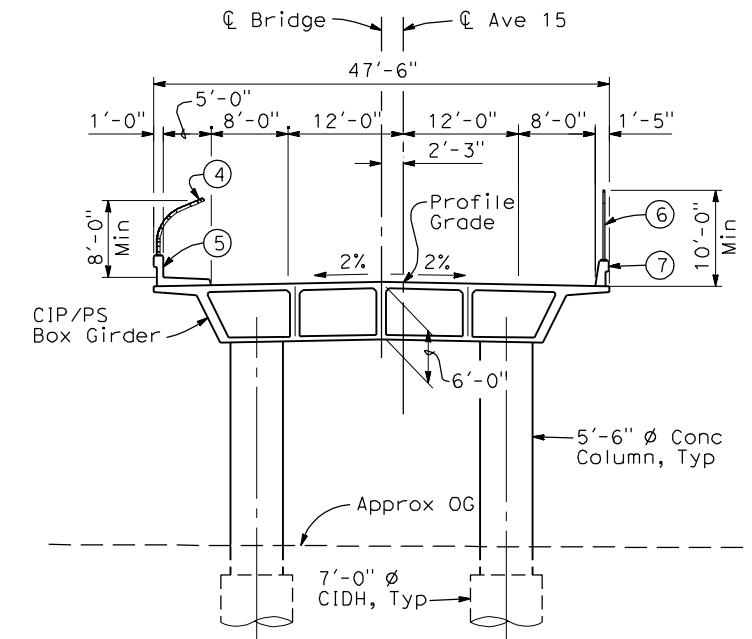


PROFILE GRADE
NTS

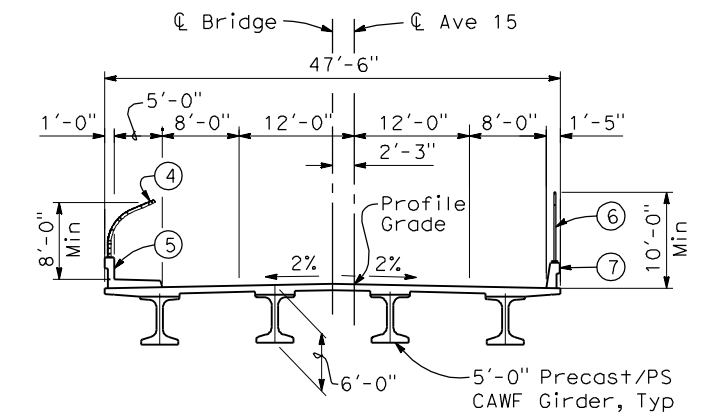
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BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	463'-8"
WIDTH	=	47'-6"
AREA	=	22,026 ft ²
COST/DFIT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



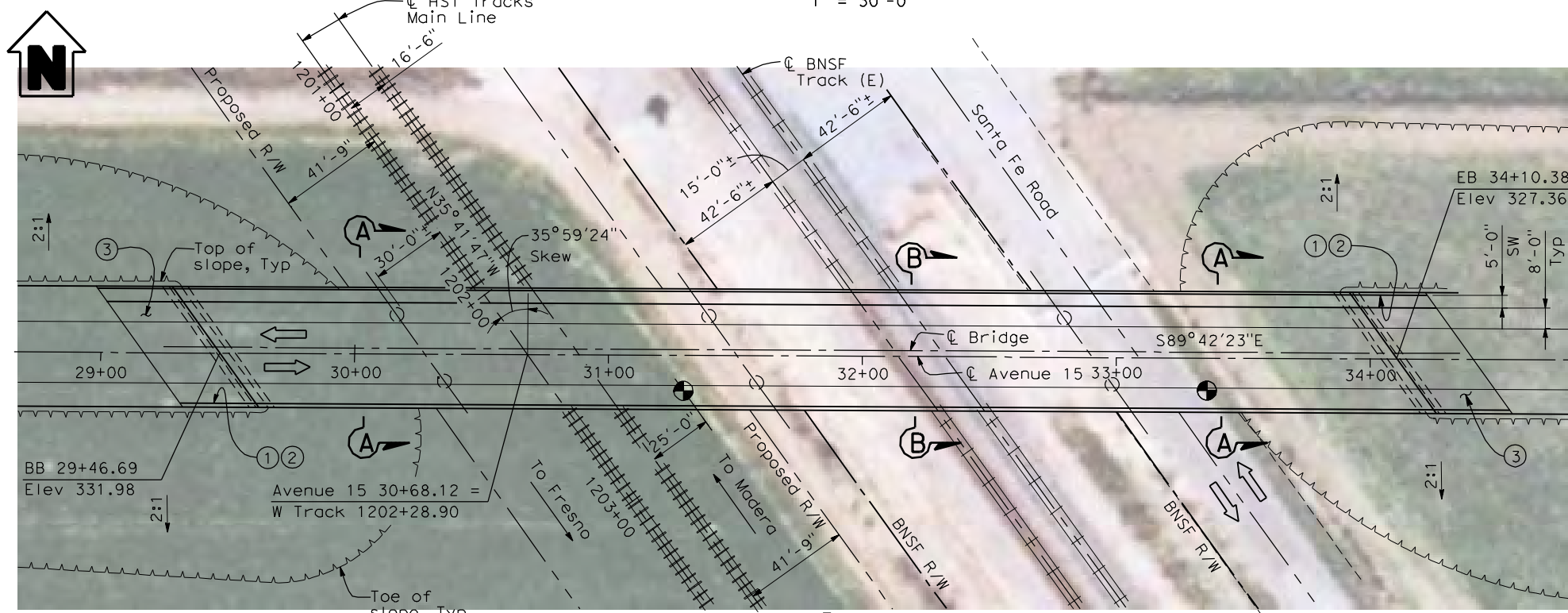
ELEVATION
1" = 30'-0"



SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"

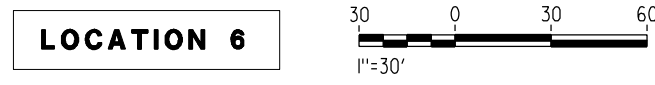


PLAN
1" = 30'-0"

- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Avenue 15 OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Bearing of Avenue 15 to be determined.
 - Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- ⊙ Point of minimum vertical clearance
- Pt = Petroleum
- UG = Underground



4/28/2011 4:42:18 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21ML2.W-ML-ST-OH_Ave_15.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
J. RENTERIA
IN CHARGE
A. BOONE
DATE
04/29/2011

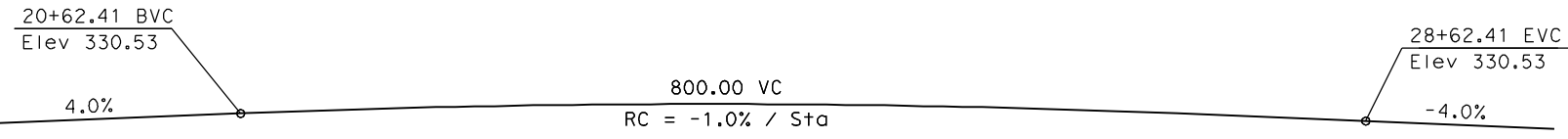
RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



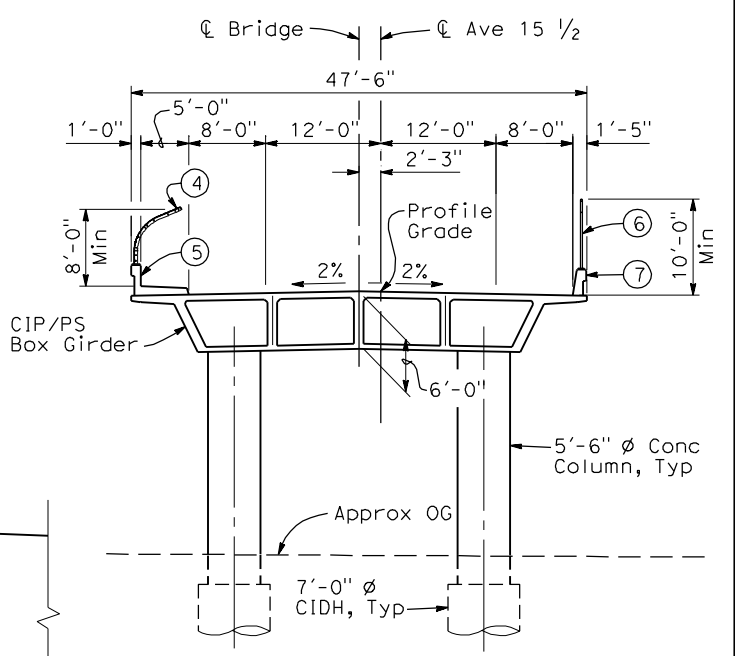
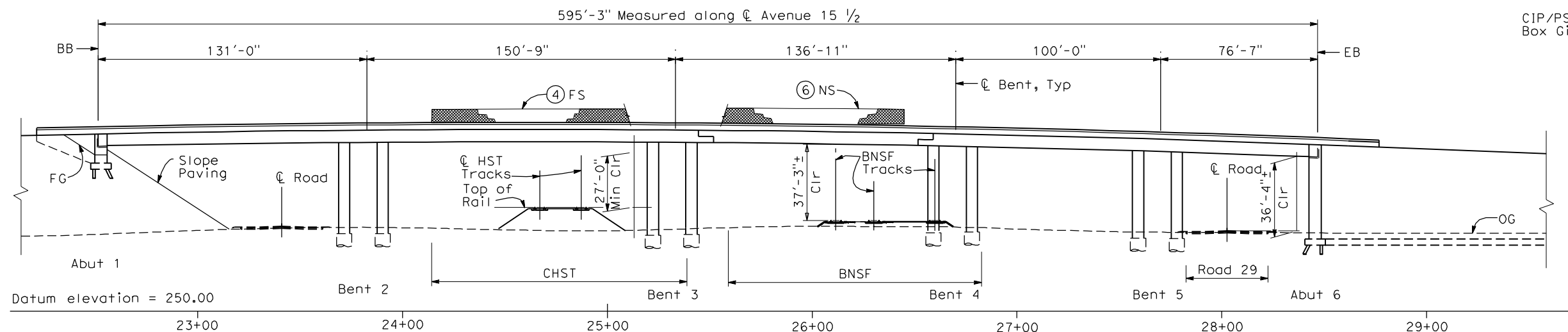
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 15 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1006
SCALE	As shown
SHEET NO.	OF

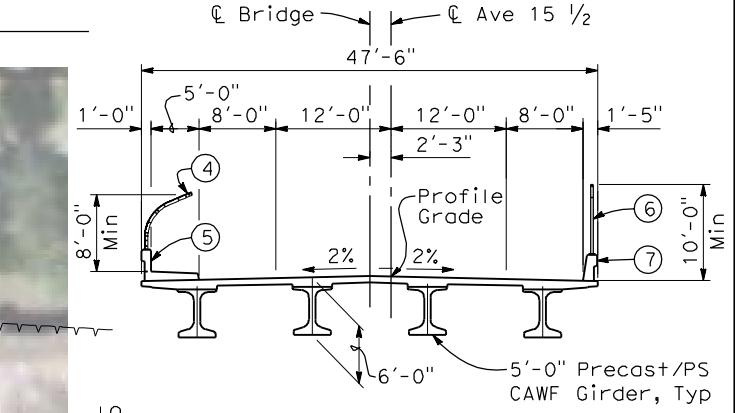


PROFILE GRADE
NTS

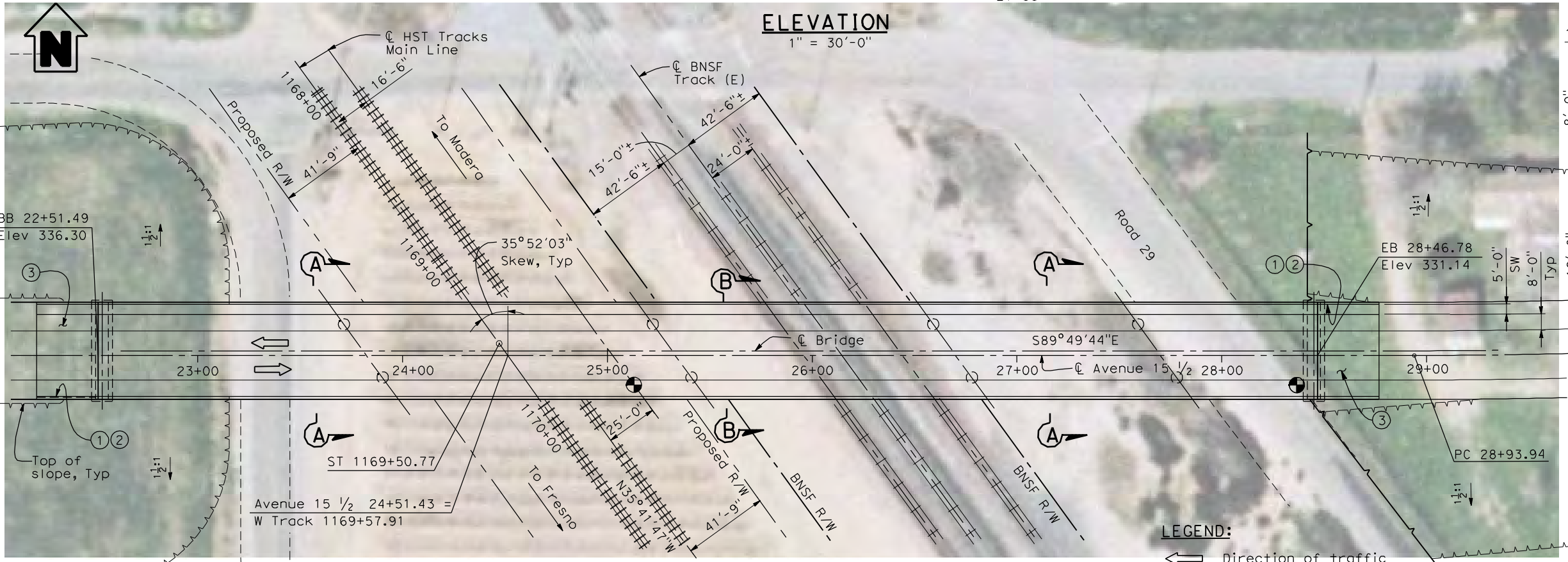
DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	595'-3"
WIDTH	=	47'-6"
AREA	=	28,280 ft ²
COST/ SFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"

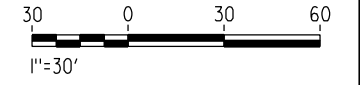


ELEVATION
1" = 30'-0"

- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Avenue 15 1/2 OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Bearing of Avenue 15 1/2 to be determined.
 - Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance
 - Pt = Petroleum
 - UG = Underground

LOCATION 7



4/28/2011 4:45:39 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\XPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21ML2.W-ML-ST-OH_Ave_15-5.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
J. RENTERIA
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

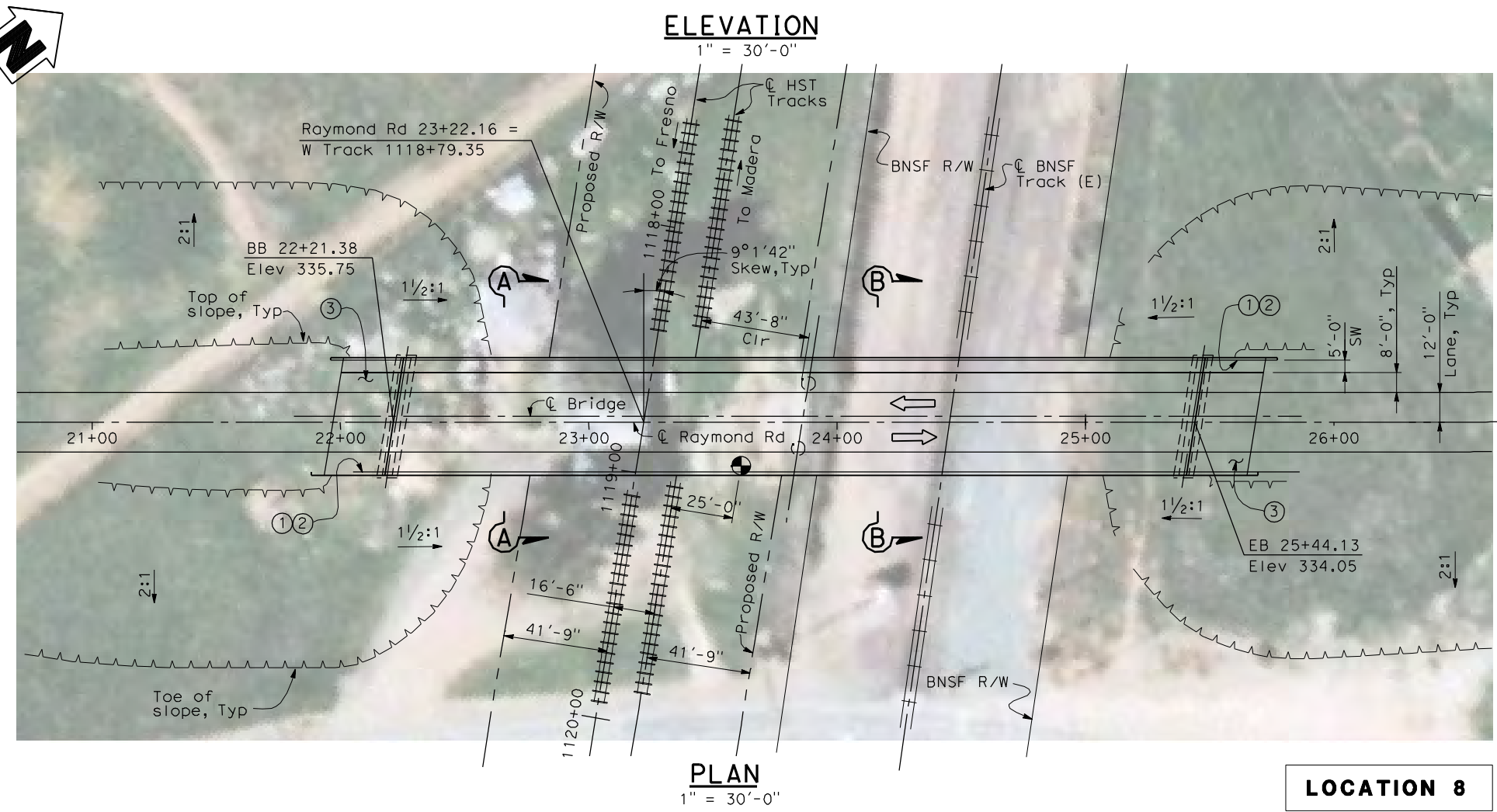
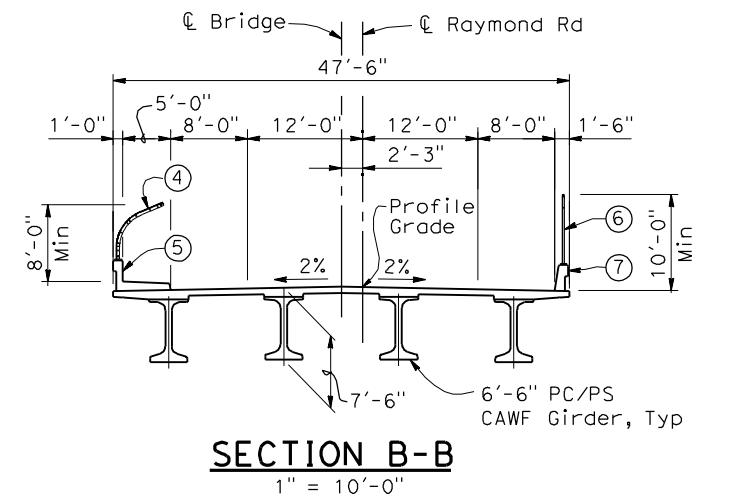
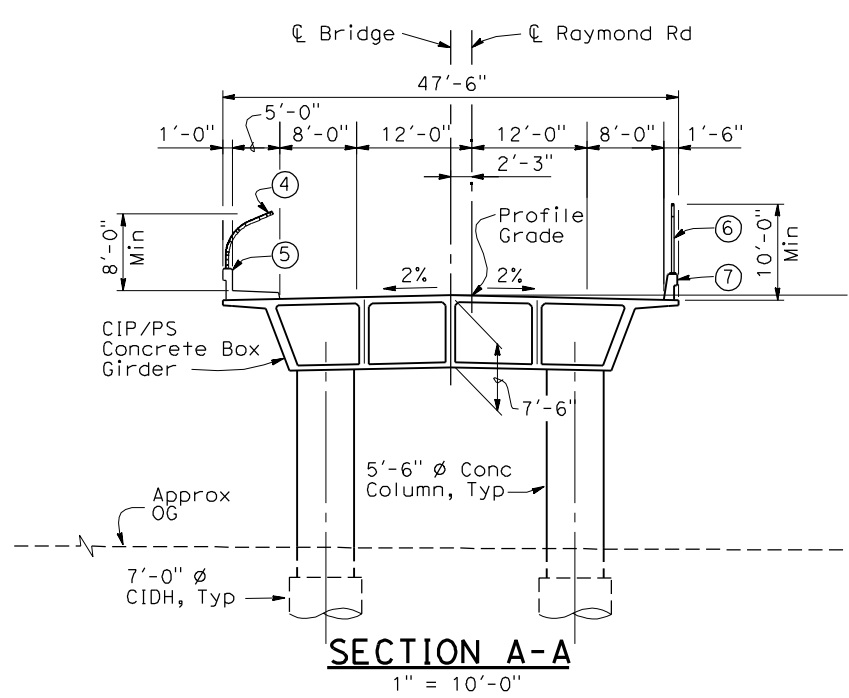
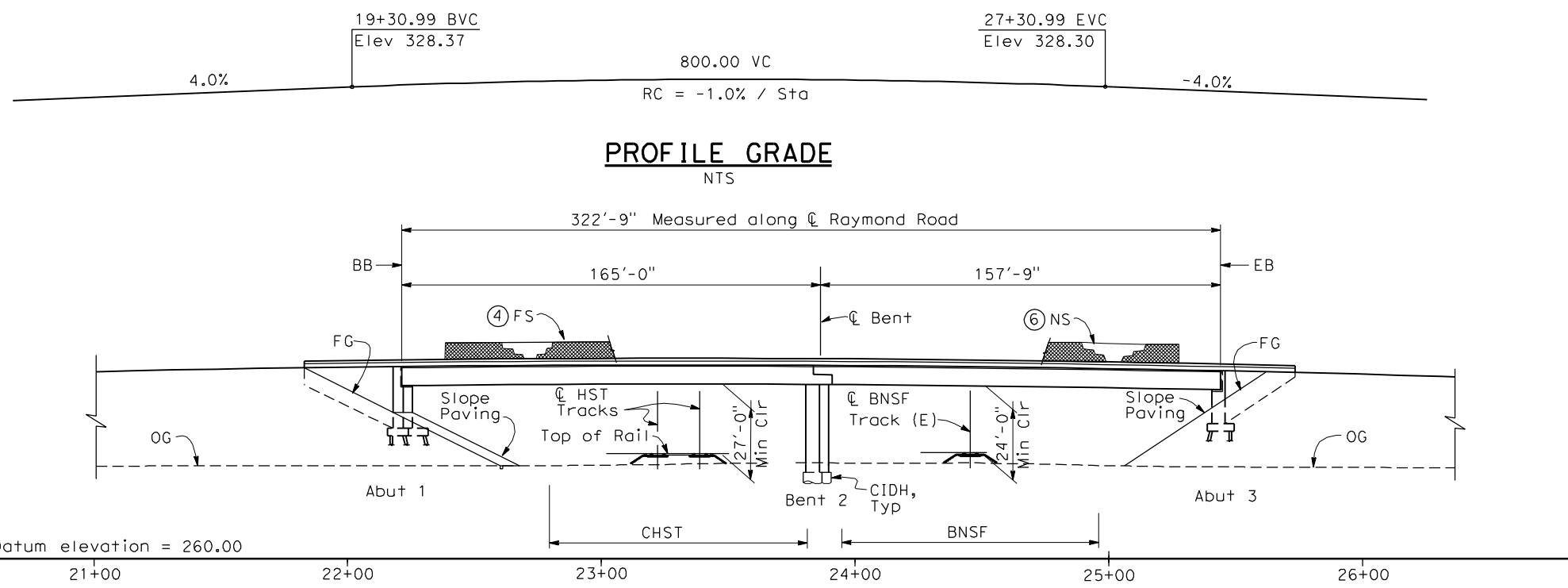
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 15 1/2 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1007
SCALE	As shown
SHEET NO.	OF

4/30/2011 4:12:54 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\MAPS\M1\15%_cost_reduction_submittal\GradeStructure\Oakland\MF-ST1008.dgn



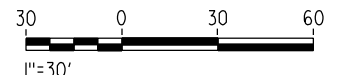
NOTES:

- ① Paint "Bridge No. xx-xx"
- ② Paint "Raymond Road OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
- 8. Existing underground and overhead utilities to be determined.
- 9. Location and elevation of existing BNSF track to be determined.

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 7'-6"
LENGTH	= 322'-9"
WIDTH	= 47'-6"
AREA	= 15,330 ft ²
COST/ \square FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____

LEGEND:

- \leftarrow Direction of traffic
- \odot Point of minimum vertical clearance



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
J. TANG

CHECKED BY
L. LEUNG

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

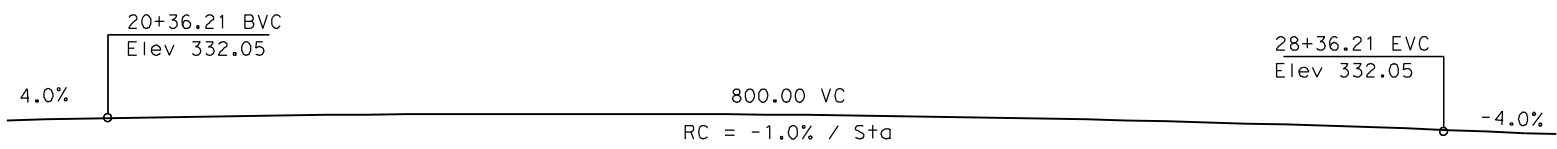
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
RAYMOND ROAD OVERHEAD
PLANNING STUDY

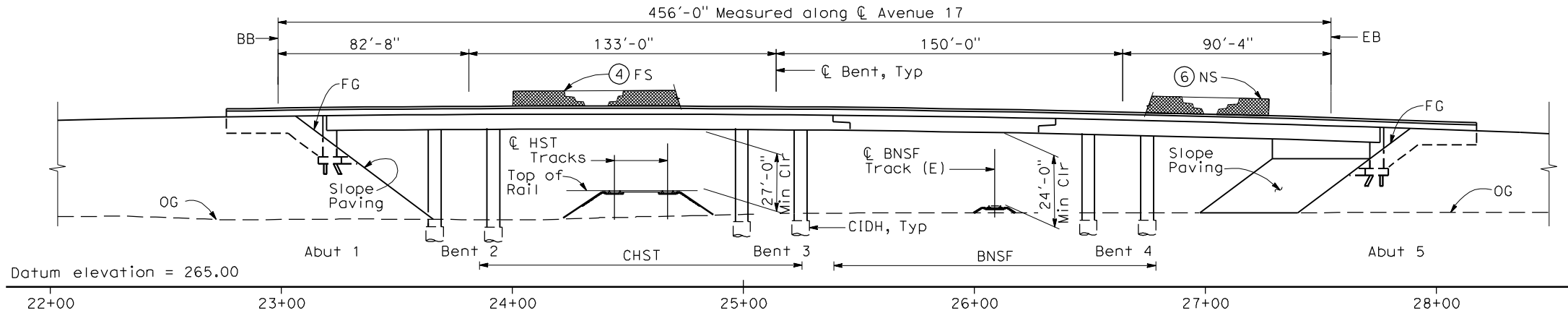
CONTRACT NO.	HSR06-007
DRAWING NO.	ST1008
SCALE	AS SHOWN
SHEET NO.	OF

4/29/2011 5:51:57 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From_Oakland\W-MF-ST11009.dgn

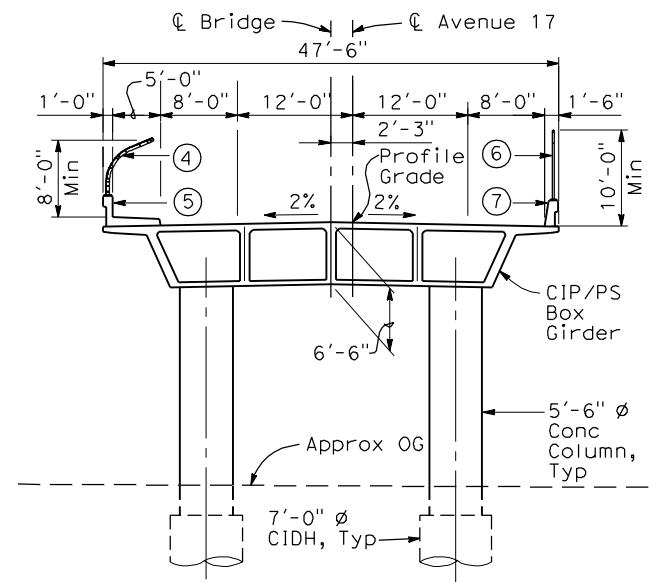


PROFILE GRADE
NTS

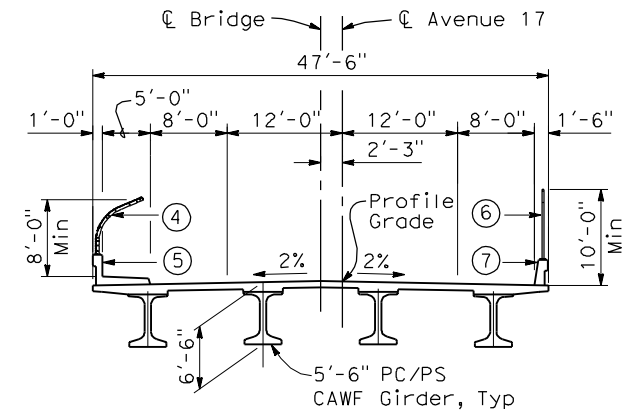
DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-6"
LENGTH	=	456'-0"
WIDTH	=	47'-6"
AREA	=	21,660 ft ²
COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



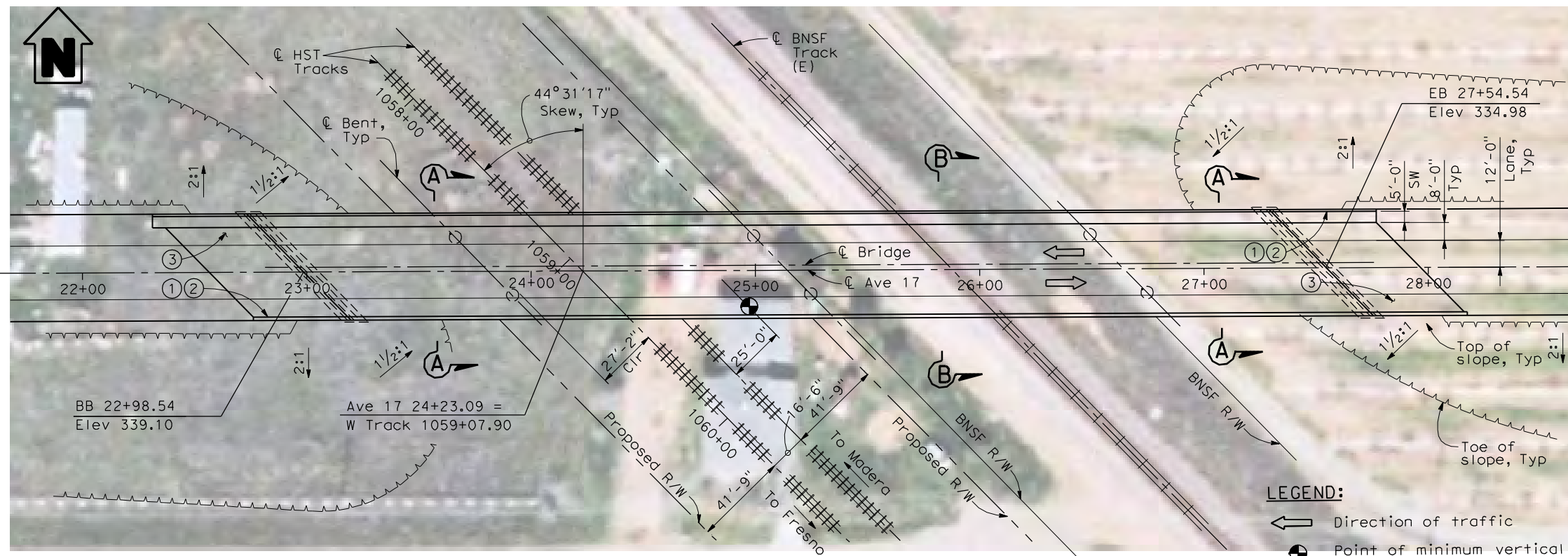
ELEVATION
1" = 30'-0"



SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"

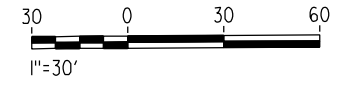


PLAN
1" = 30'-0"

NOTES:

- ① Paint "Bridge No. XX-XX"
- ② Paint "Avenue 17 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Bearing of Avenue 17 and BNSF track to be determined.
9. Existing underground and overhead utilities to be determined.

LOCATION 9



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. HODELL
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

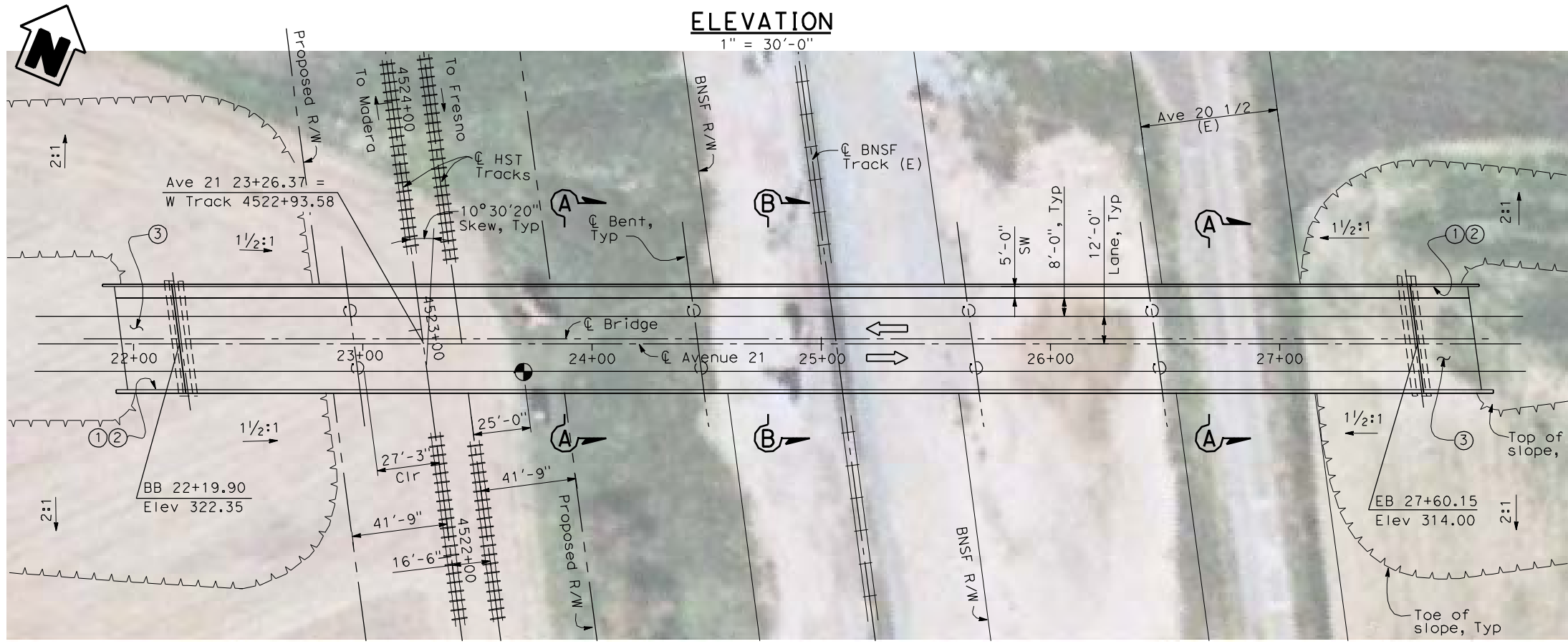
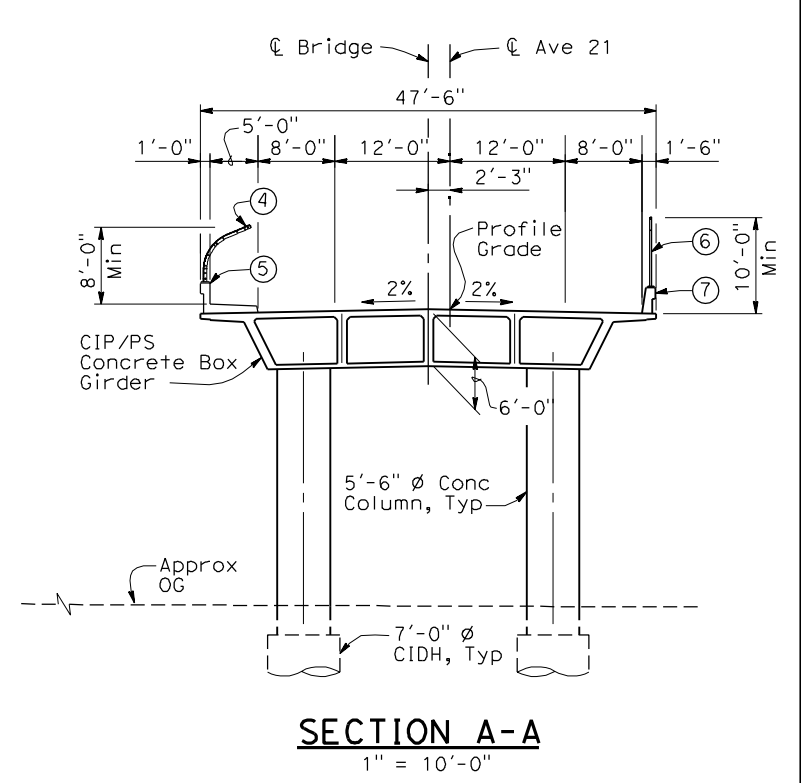
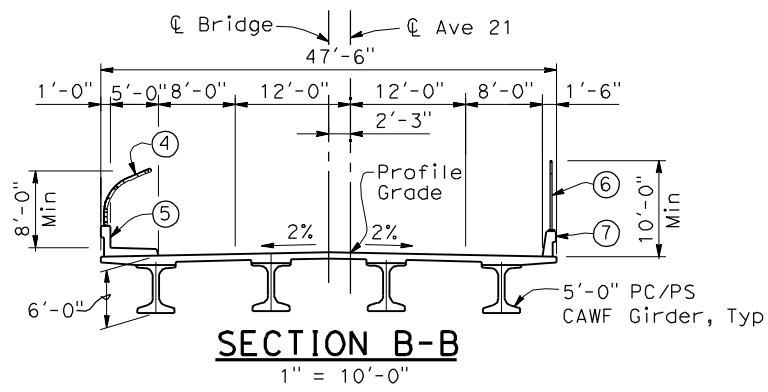
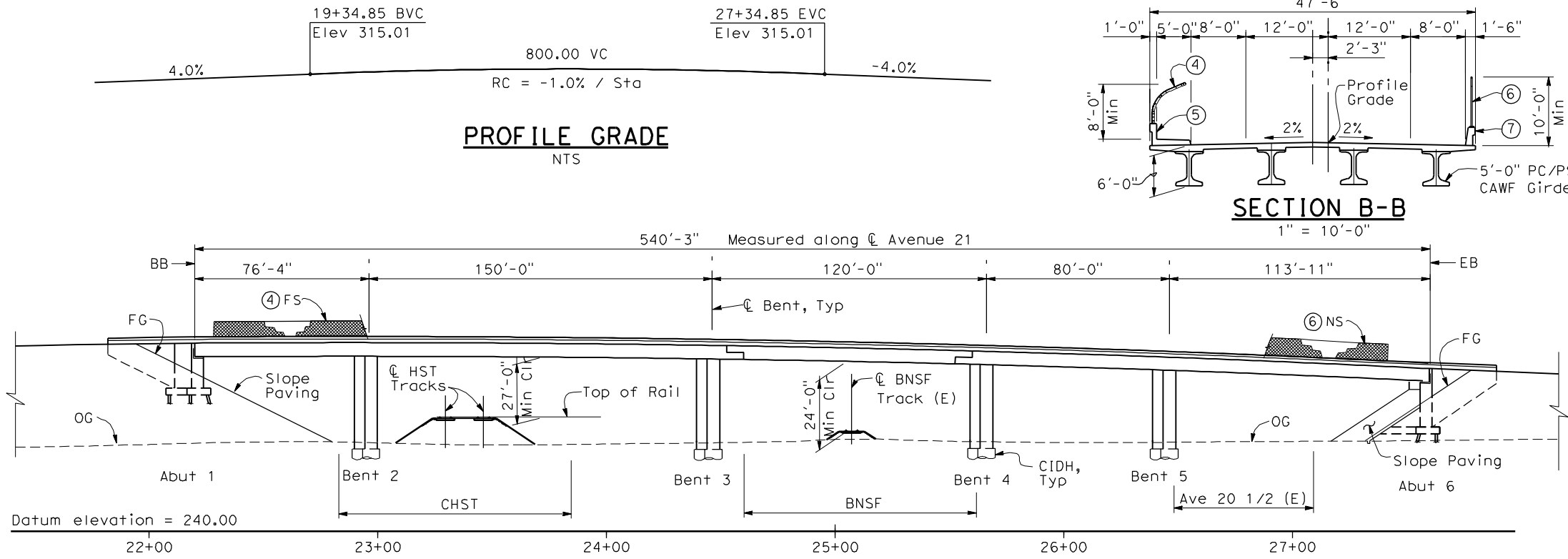
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 17 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1009
SCALE	AS SHOWN
SHEET NO.	OF

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- NOTES:**
- ① Paint "Bridge No. xx-xx"
 - ② Paint "Avenue 21 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.
 9. Location and elevation of existing BNSF track to be determined.

- LEGEND:**
- \leftarrow Direction of traffic
 - \odot Point of minimum vertical clearance

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	540'-3"
WIDTH	=	47'-6"
AREA	=	25,660 ft ²
COST/ \bar{C} FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 12



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
J. TANG

CHECKED BY
L. LEUNG

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

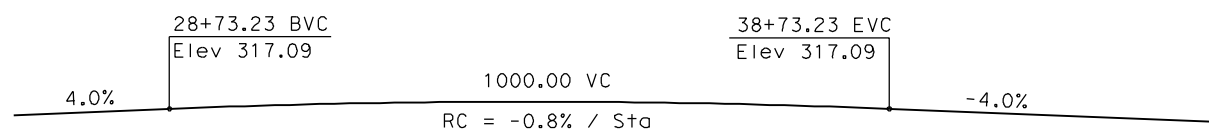
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 21 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1012
SCALE	AS SHOWN
SHEET NO.	OF

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PROFILE GRADE
NTS

- LEGEND:**
- ← Direction of traffic
 - ⊙ Point of minimum vertical clearance
 - ▲— Retaining Wall

DATE OF ESTIMATE = _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 8'-0"

LENGTH = 552'-9"

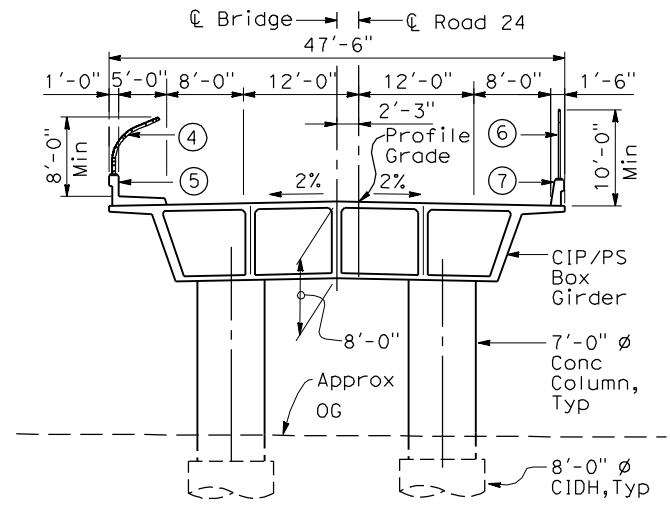
WIDTH = 47'-6"

AREA = 26,260 ft²

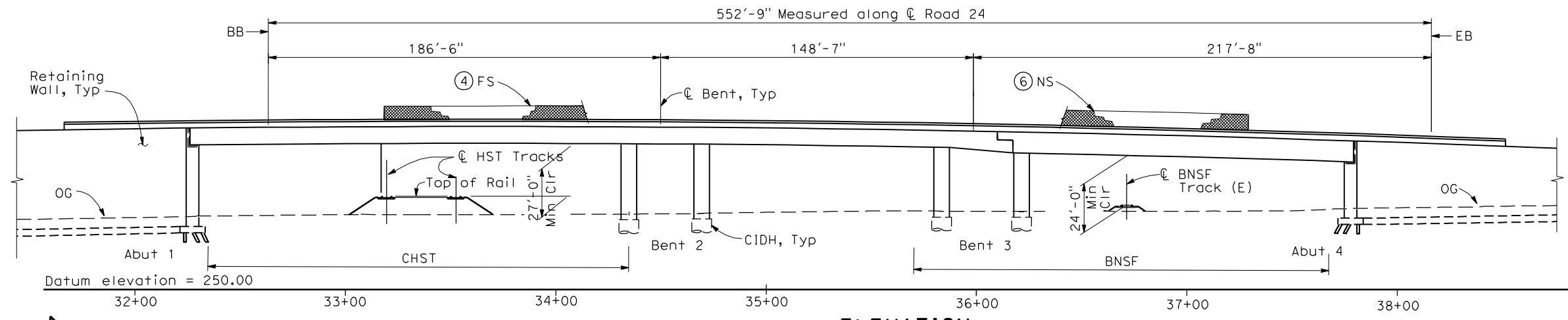
COST/ØFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____

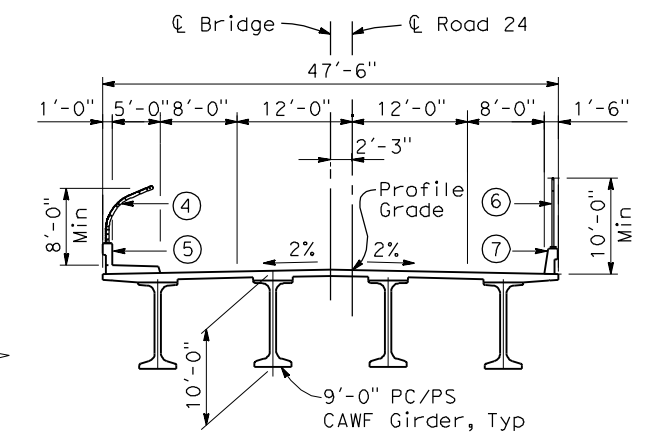
- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 24 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Bearing of Road 24 and BNSF track to be determined.
 9. Existing underground and overhead utilities to be determined.
 10. Location and elevation of existing BNSF track to be determined.



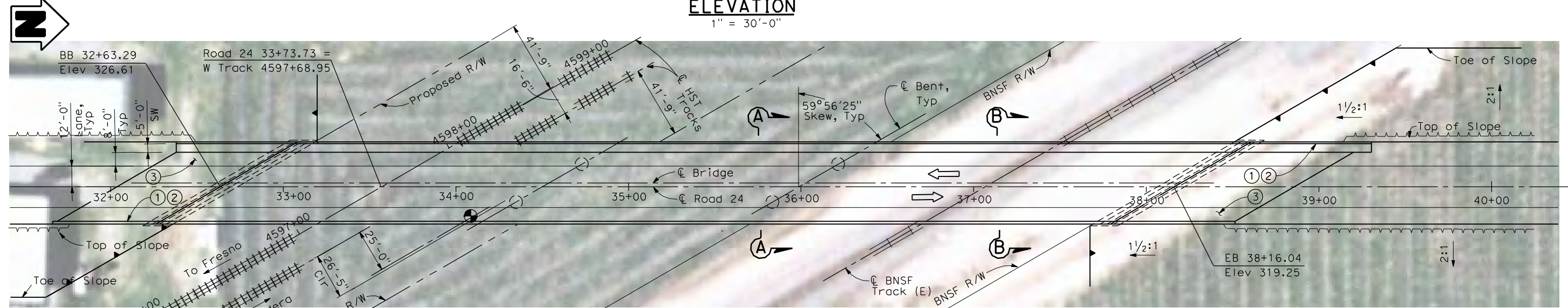
SECTION A-A
1"=10'-0"



ELEVATION
1" = 30'-0"



SECTION B-B
1"=10'-0"



PLAN
1" = 30'-0"

LOCATION 13

1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
J. HODELL

CHECKED BY
L. LEUNG

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
ROAD 24 OVERHEAD
PLANNING STUDY

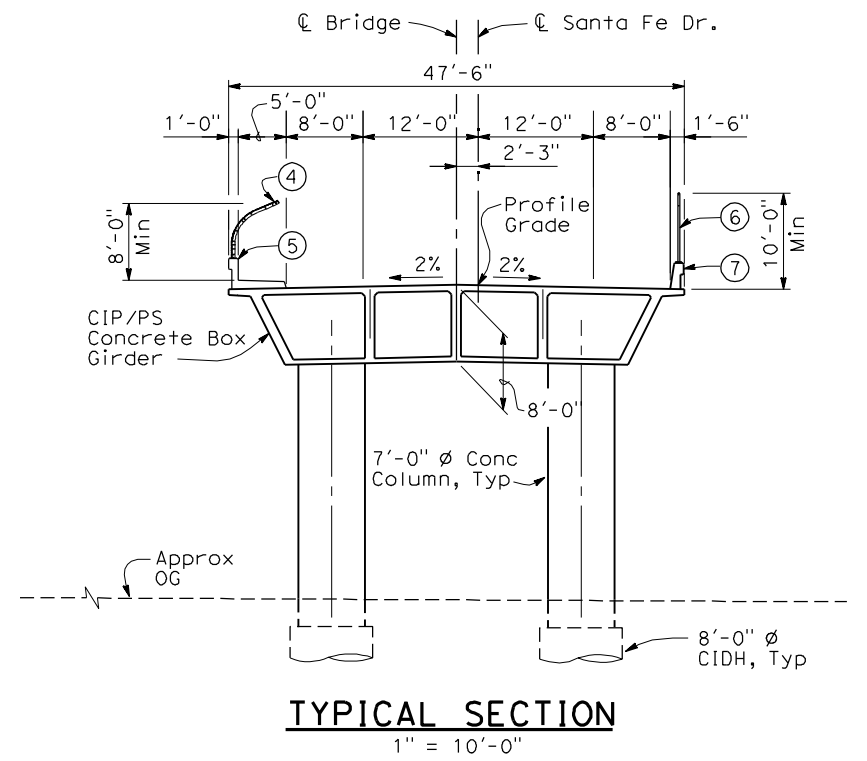
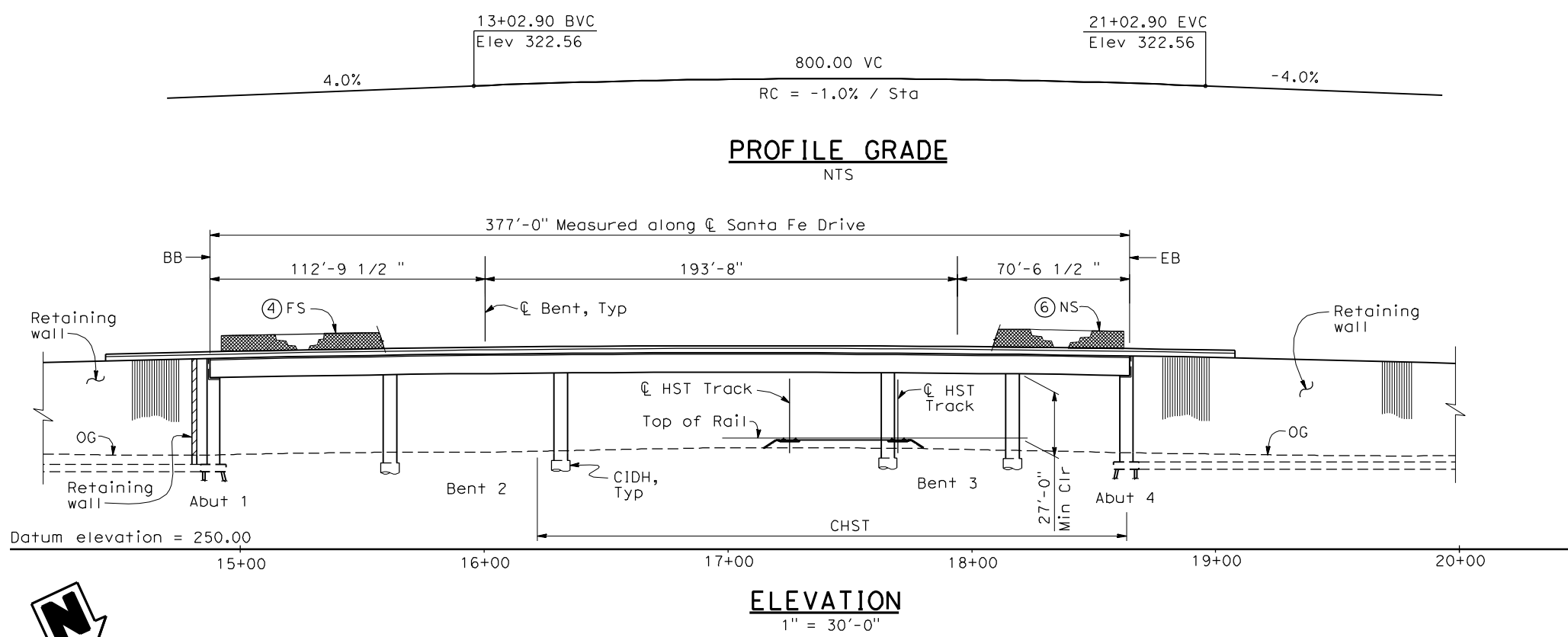
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1013

SCALE
AS SHOWN

SHEET NO.
OF

4/30/2011 4:17:05 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\AP5\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\WF-ST1016.dgn

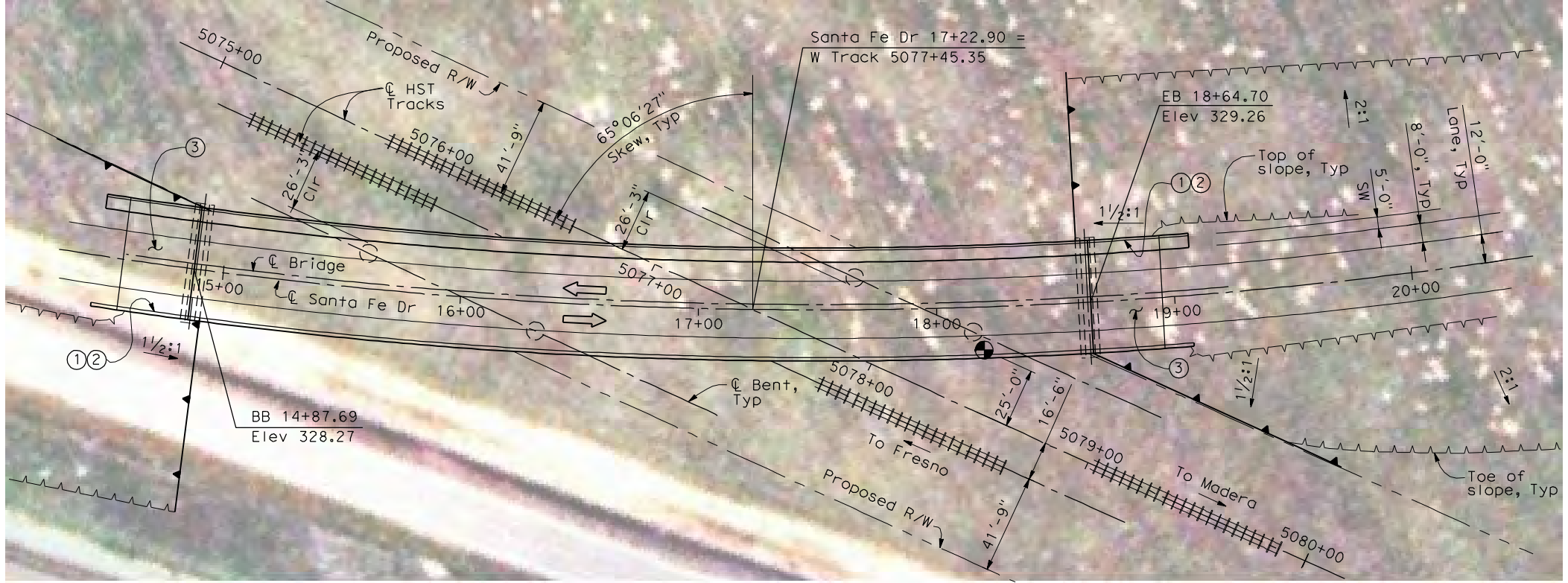
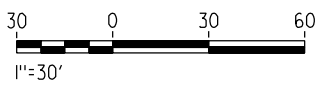


- NOTES:**
- ① Paint "Bridge No. xx-xx"
 - ② Paint "Santa Fe Drive OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

- LEGEND:**
- Direction of traffic
 - Point of minimum vertical clearance
 - Retaining wall

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	8'-0"
LENGTH	=	377'-0"
WIDTH	=	47'-6"
AREA	=	17,910 ft ²
COST/ \square FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____

LOCATION 16



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
J. TANG

CHECKED BY
L. LEUNG

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

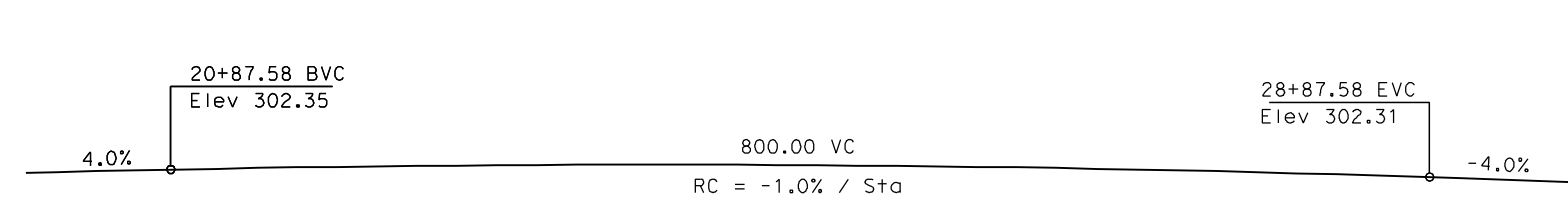
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
SANTA FE DRIVE OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1016
SCALE	AS SHOWN
SHEET NO.	OF

4/30/2011 4:17:31 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1017.dgn



DATE OF ESTIMATE = _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 6'-6"

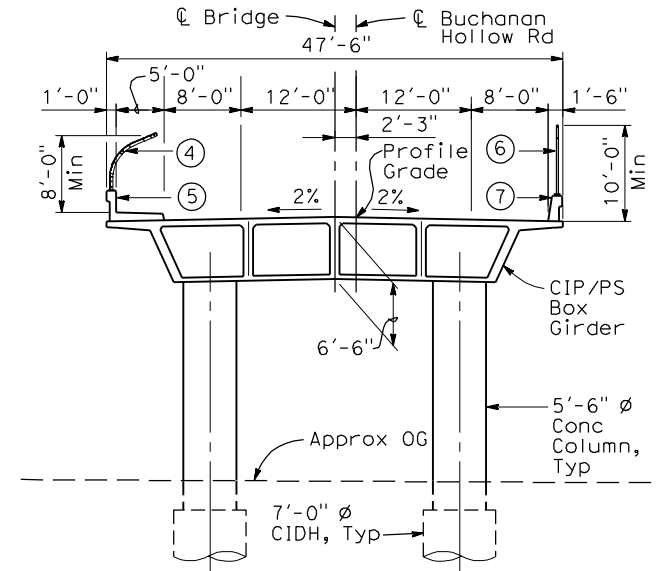
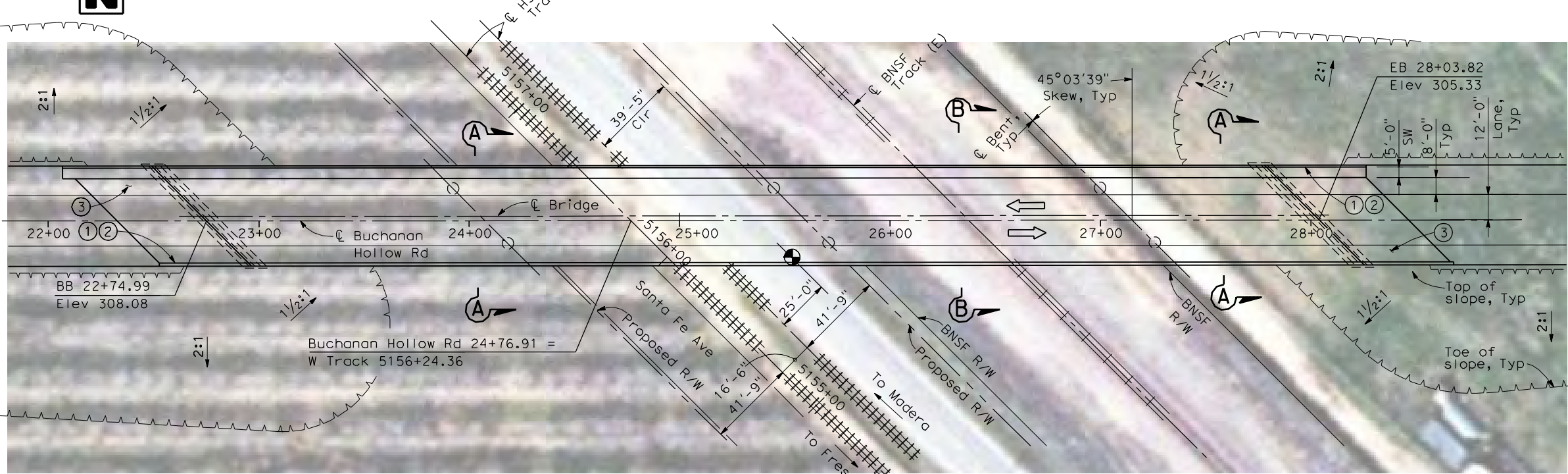
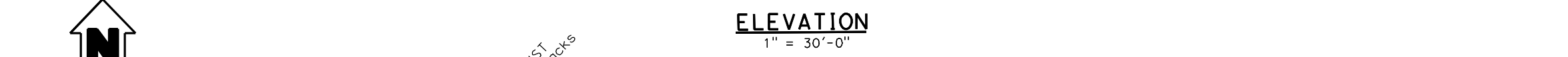
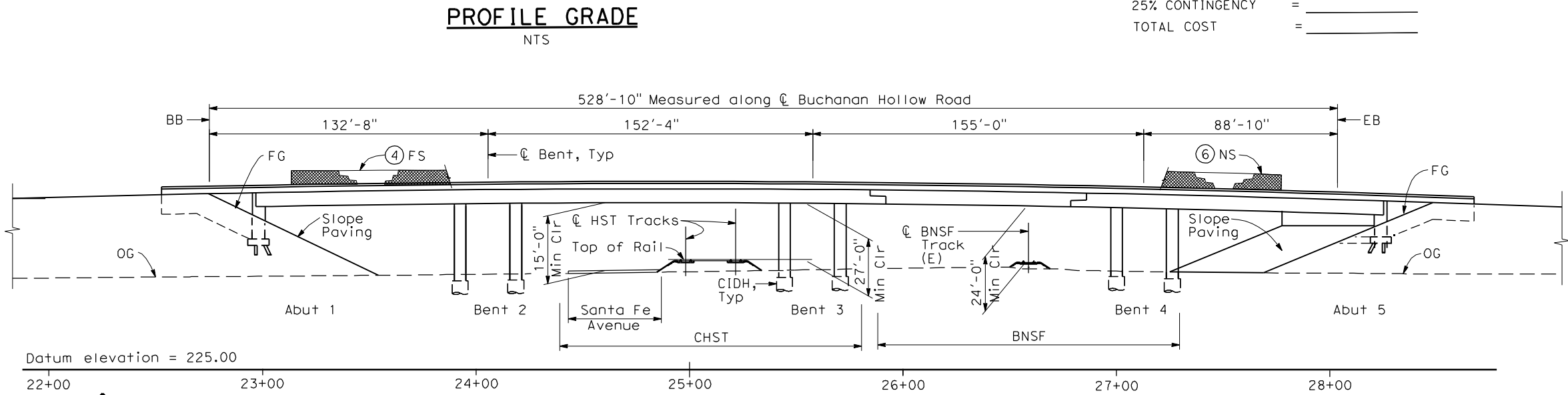
LENGTH = 528'-10"

WIDTH = 47'-6"

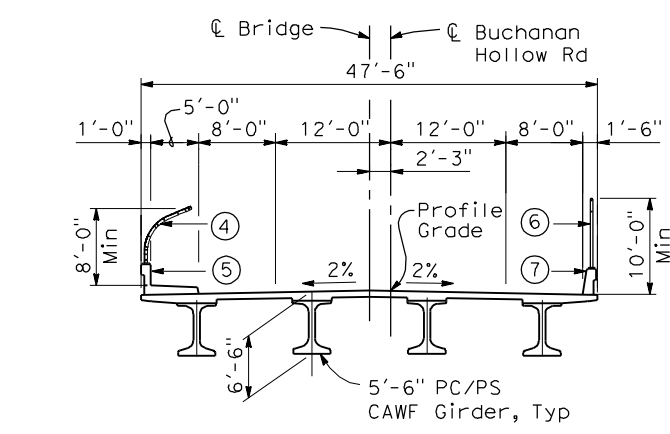
AREA = 25,120 ft²

COST / OFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____

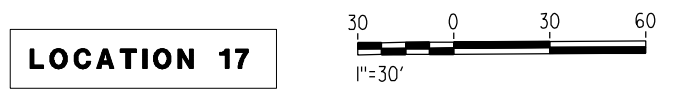


SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"

- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Buchanan Hollow Road OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Bearing of Buchanan Hollow Road and BNSF track to be determined.
 - Existing underground and overhead utilities to be determined.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
J. HODELL

CHECKED BY
L. LEUNG

IN CHARGE
A. BOONE

DATE
04/29/2011

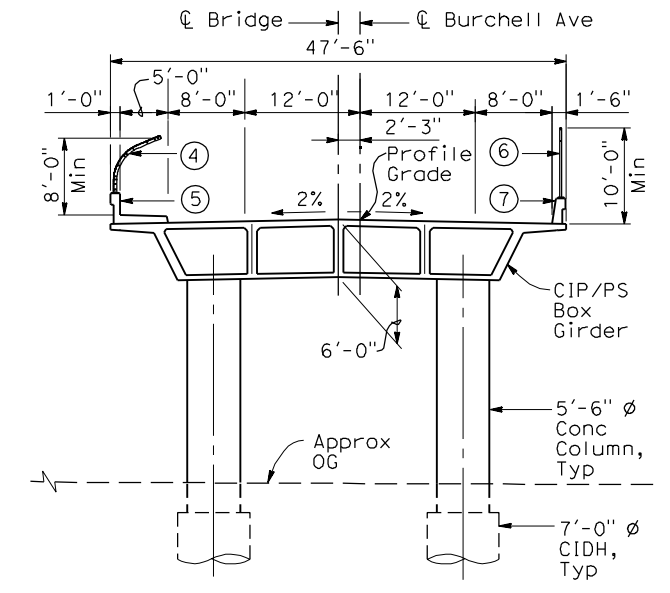
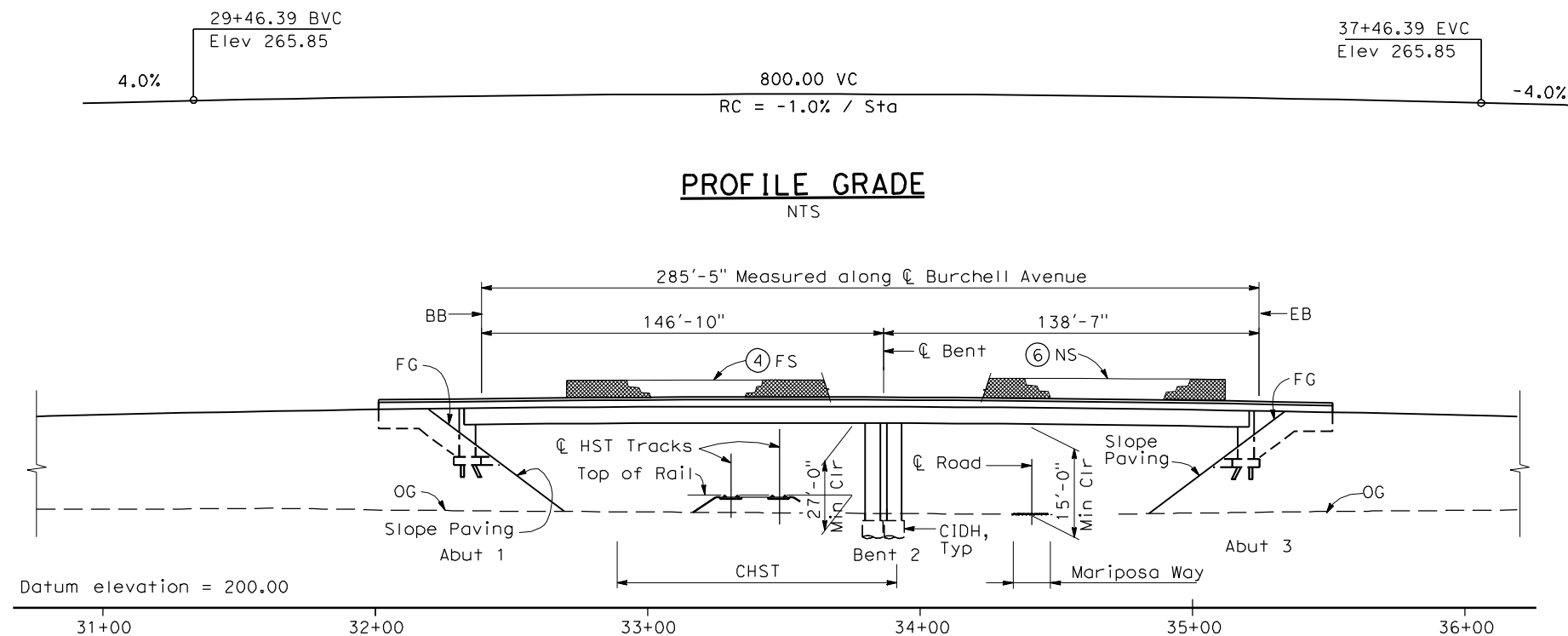
RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 21
BUCHANAN HOLLOW ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1017
SCALE	AS SHOWN
SHEET NO.	OF

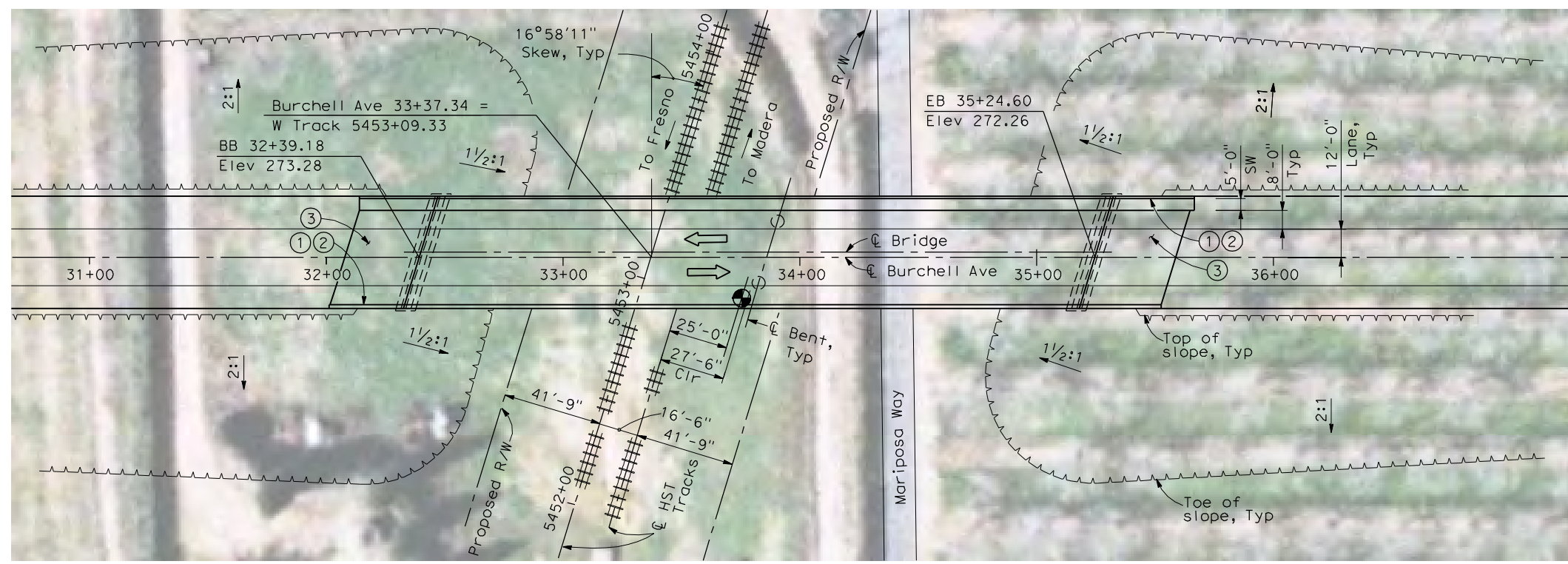


TYPICAL SECTION
1" = 10'-0"

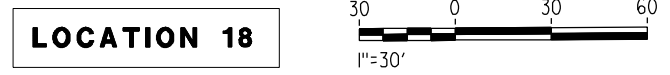
- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Burchell Avenue OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Bearing of Burchell Avenue to be determined.
 9. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 285'-5"
WIDTH	= 47'-6"
AREA	= 13,560 ft ²
COST / SFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____



PLAN
1" = 30'-0"



4/30/2011 4:18:07 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1018.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. HODELL
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

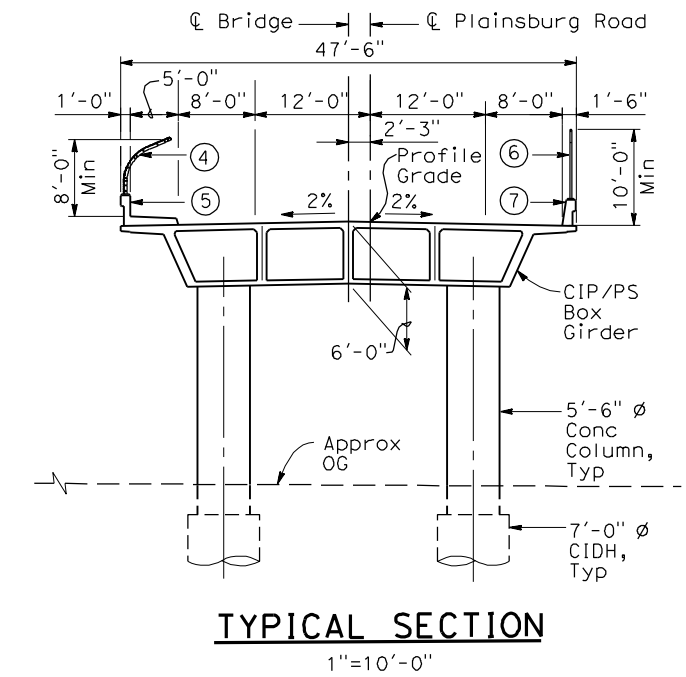
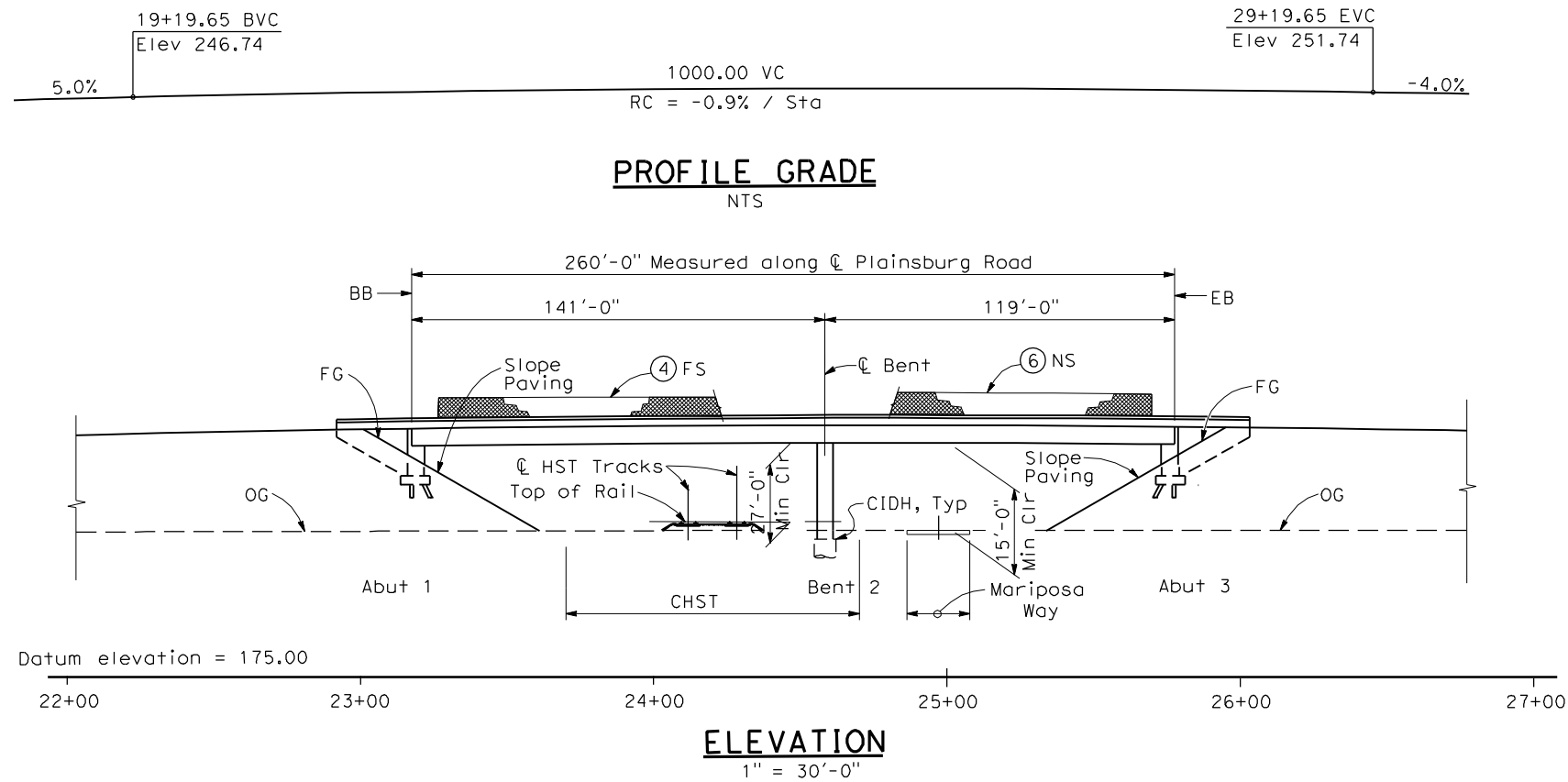
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



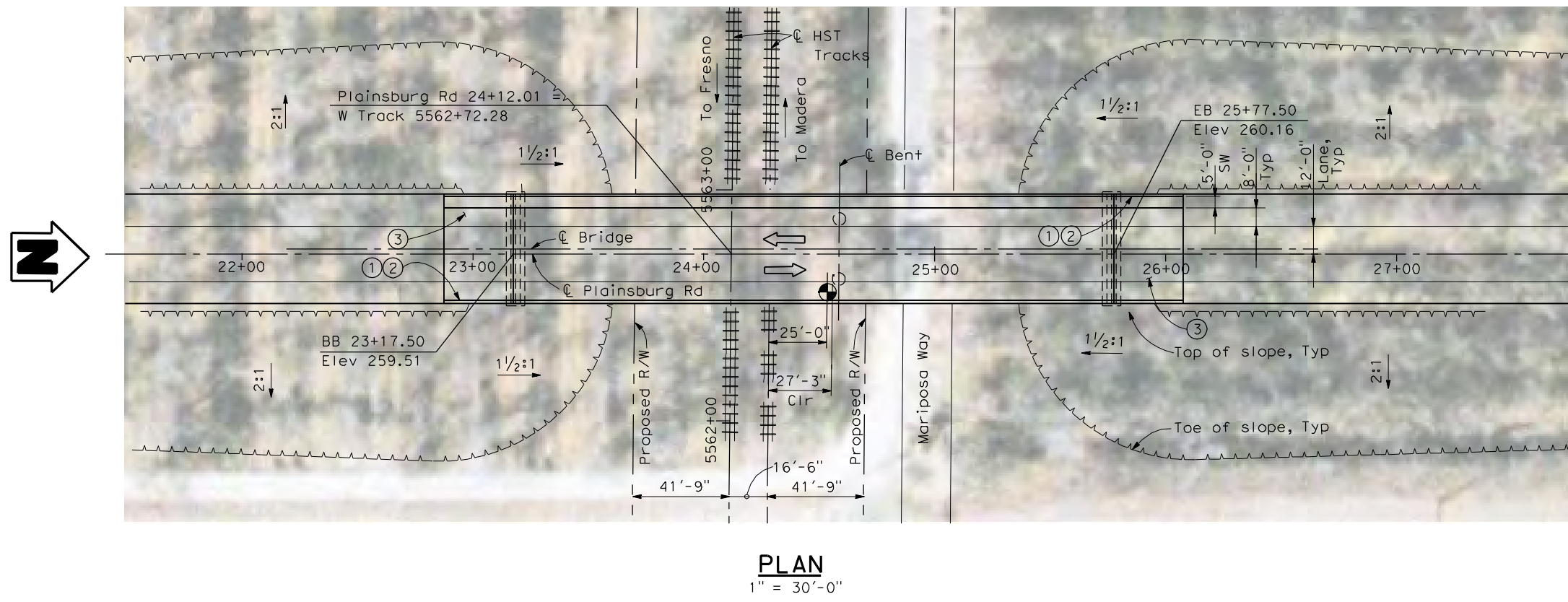
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 21/AVENUE 24
BURCHELL AVENUE OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1018
SCALE
AS SHOWN
SHEET NO.
OF



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Plainsburg Road 0H"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Bearing of Plainsburg Road to be determined.
 9. Existing underground and overhead utilities to be determined.

- LEGEND:**
- Direction of traffic
 - Point of minimum vertical clearance
- DATE OF ESTIMATE = _____
- BRIDGE REMOVAL = _____
- STRUCTURE DEPTH = 6'-0"
- LENGTH = 260'-0"
- WIDTH = 47'-6"
- AREA = 12,350 ft²
- COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____
- TOTAL COST = _____



4/30/2011 4:18:37 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1019.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
J. HOPELL

CHECKED BY
L. LEUNG

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 21/AVENUE 24
PLAINSBURG ROAD OVERHEAD
PLANNING STUDY

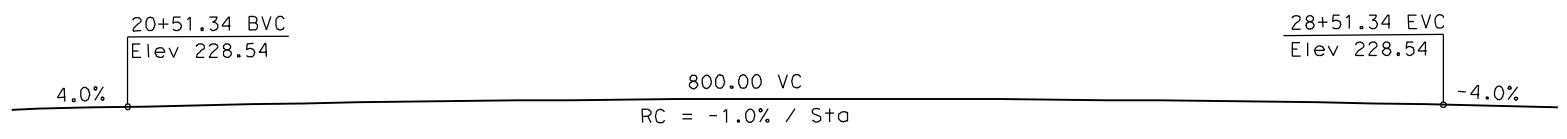
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1019

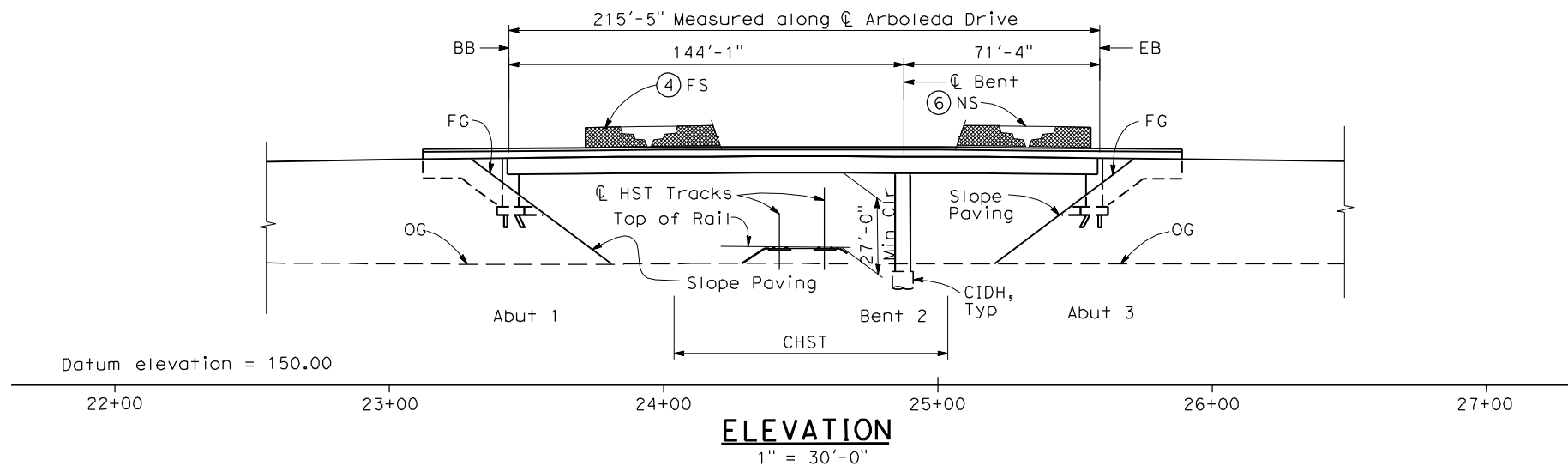
SCALE
AS SHOWN

SHEET NO.
OF

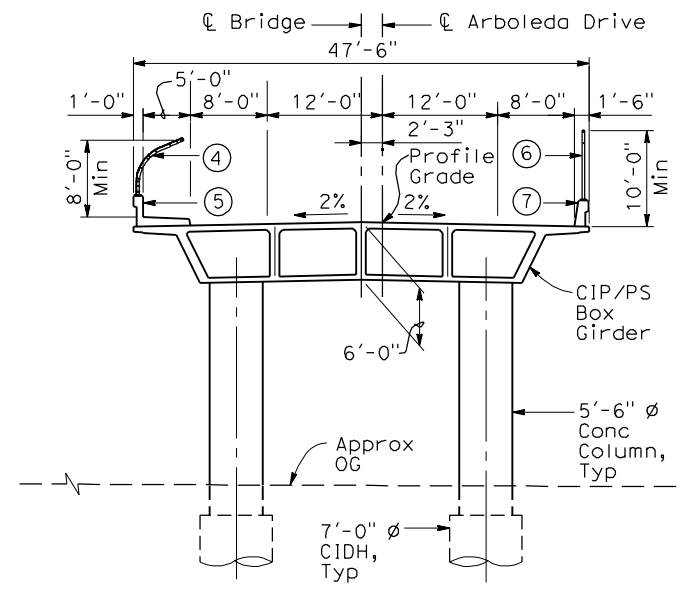
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PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

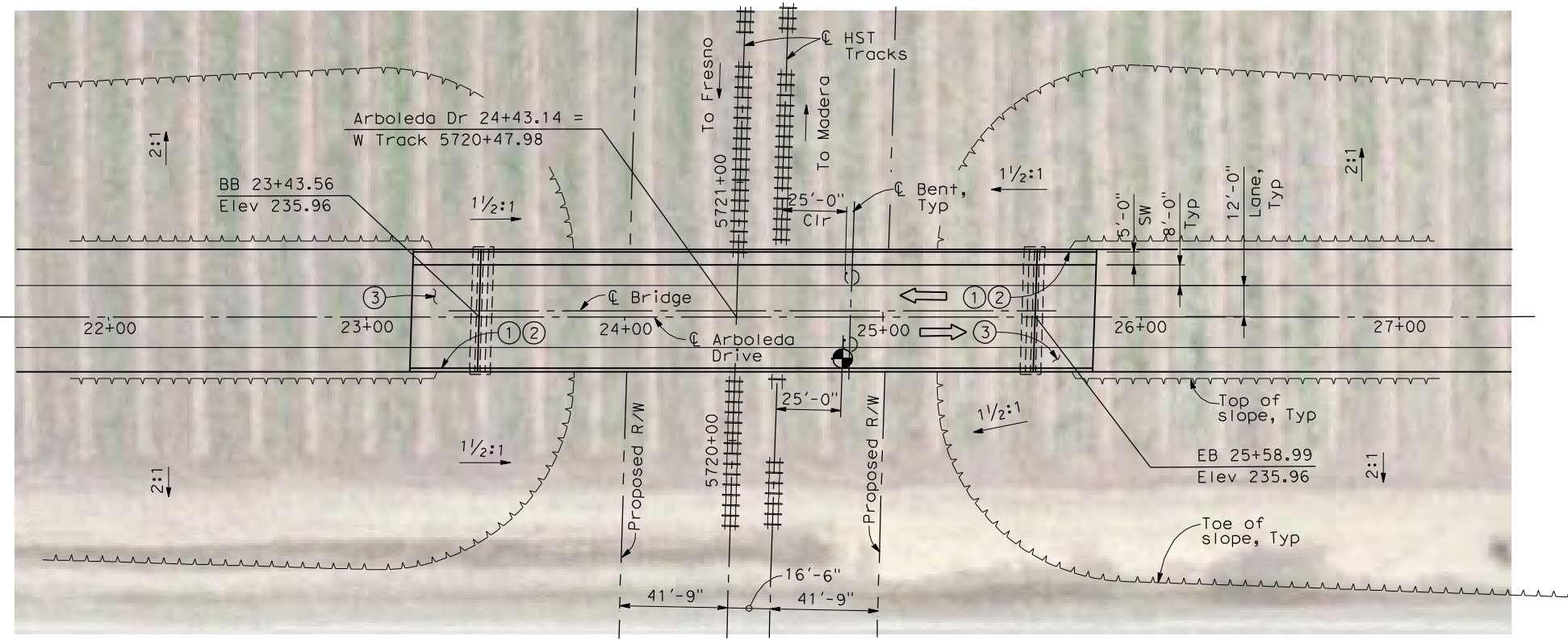
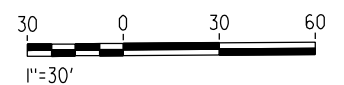
- ① Paint "Bridge No. XX-XX"
- ② Paint "Arboleda Drive OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Bearing of Arboleda Drive to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	215'-5"
WIDTH	=	47'-6"
AREA	=	10,230 ft ²
COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____

LOCATION 20



PLAN
1" = 30'-0"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. HOPELL
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

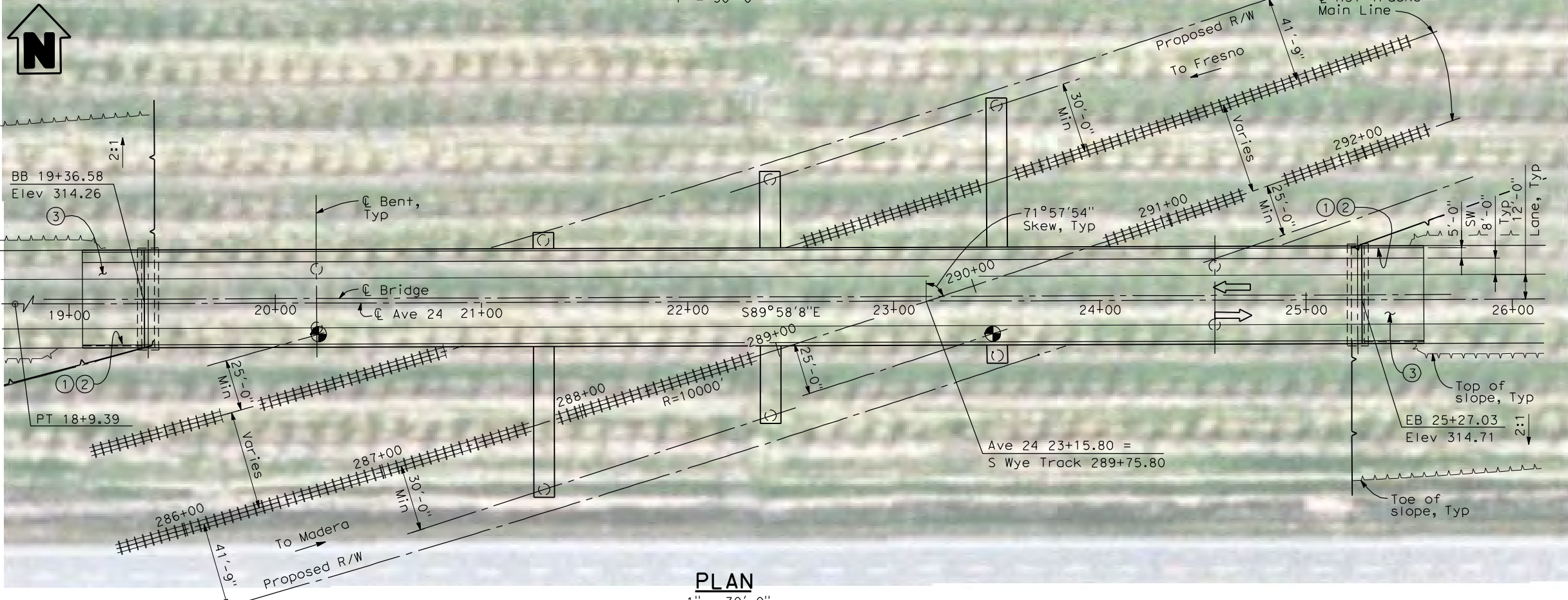
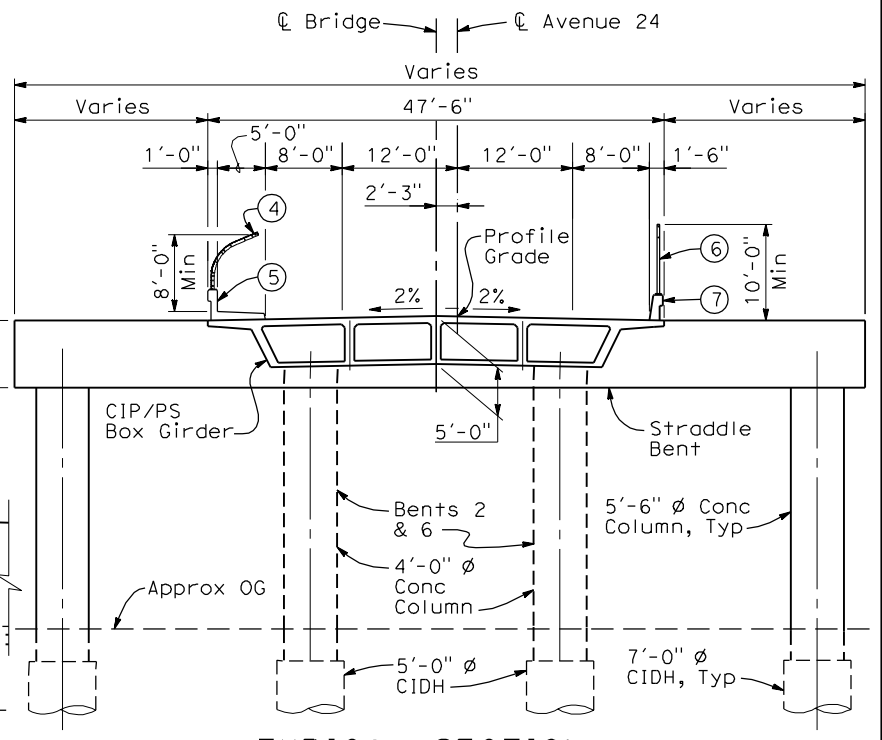
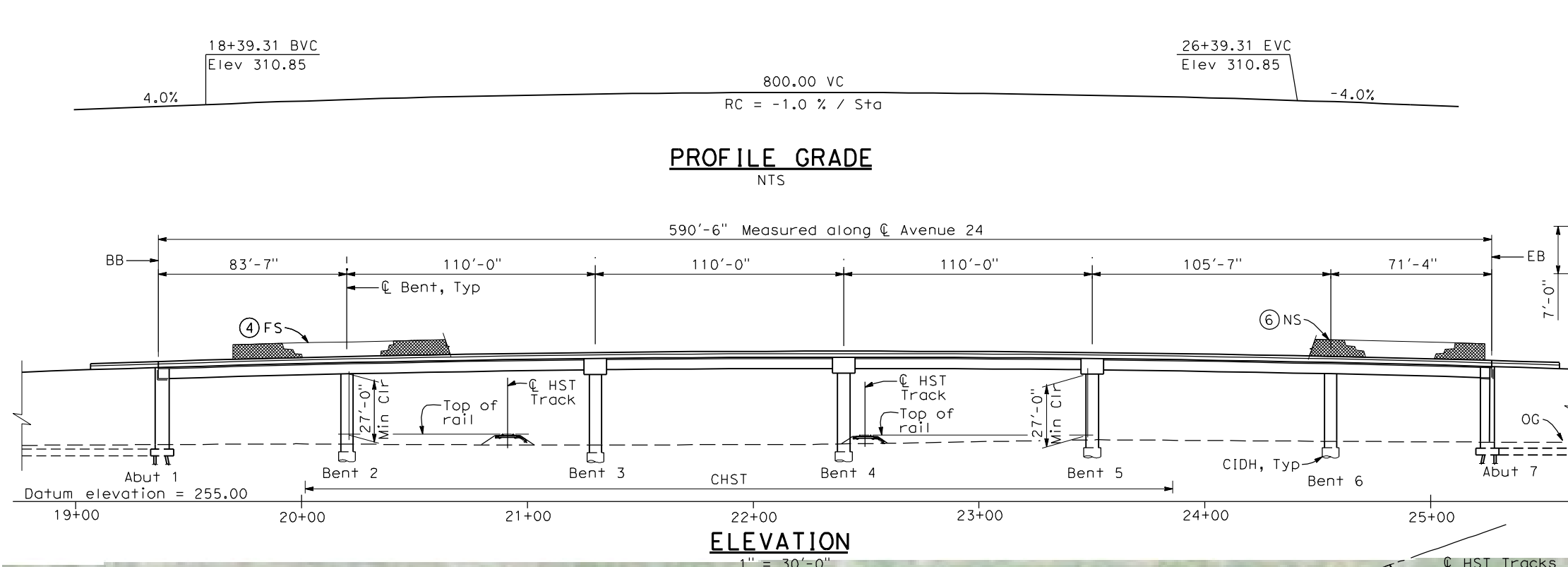
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 21
ARBOLEDA DRIVE OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1020
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:38:14 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\APS\A1\15%_cost_reduction\submit\GradeStructure\A1-24ML_W-M-ST-OH_Ave_24.dgn



- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Avenue 24 OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE = _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 5'-0"

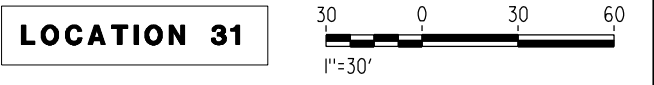
LENGTH = 590'-6"

WIDTH = 47'-6"

AREA = 28,050 ft²

COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

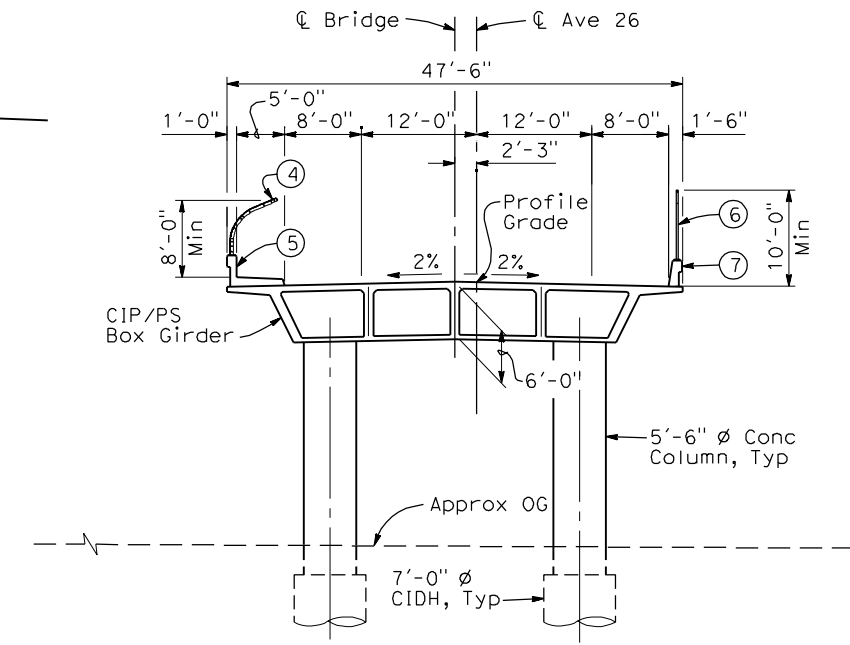
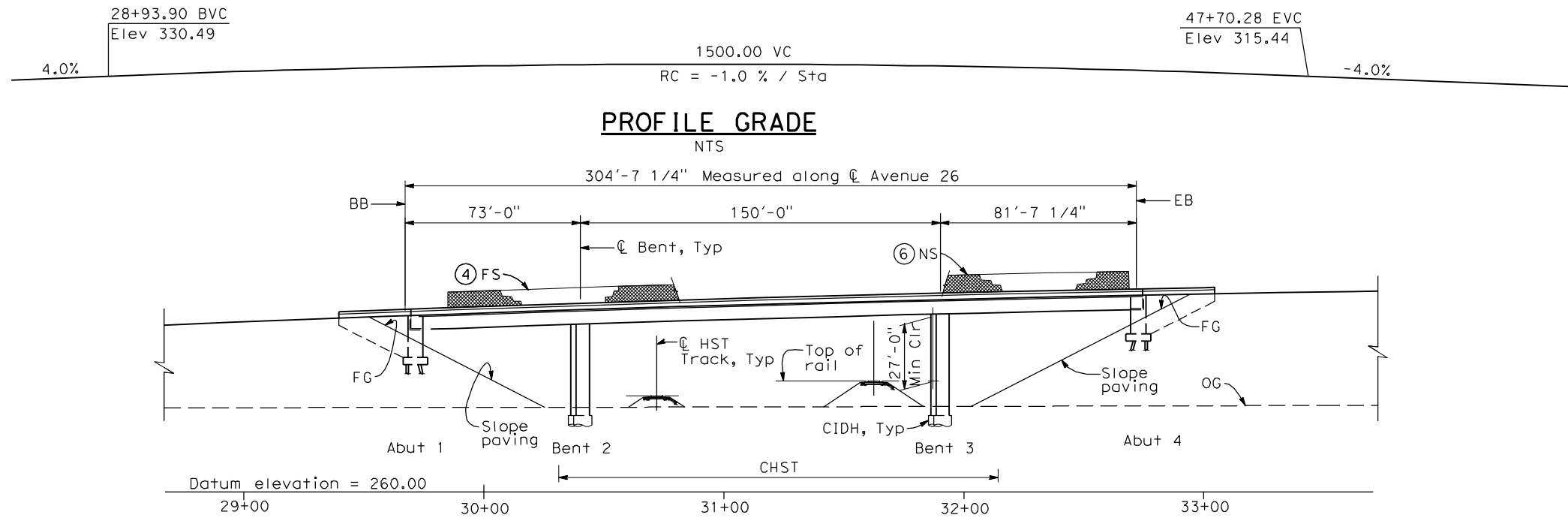
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE CONNECTION
AVENUE 24
AVENUE 24 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1034
SCALE	As shown
SHEET NO.	OF

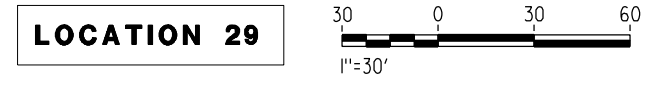
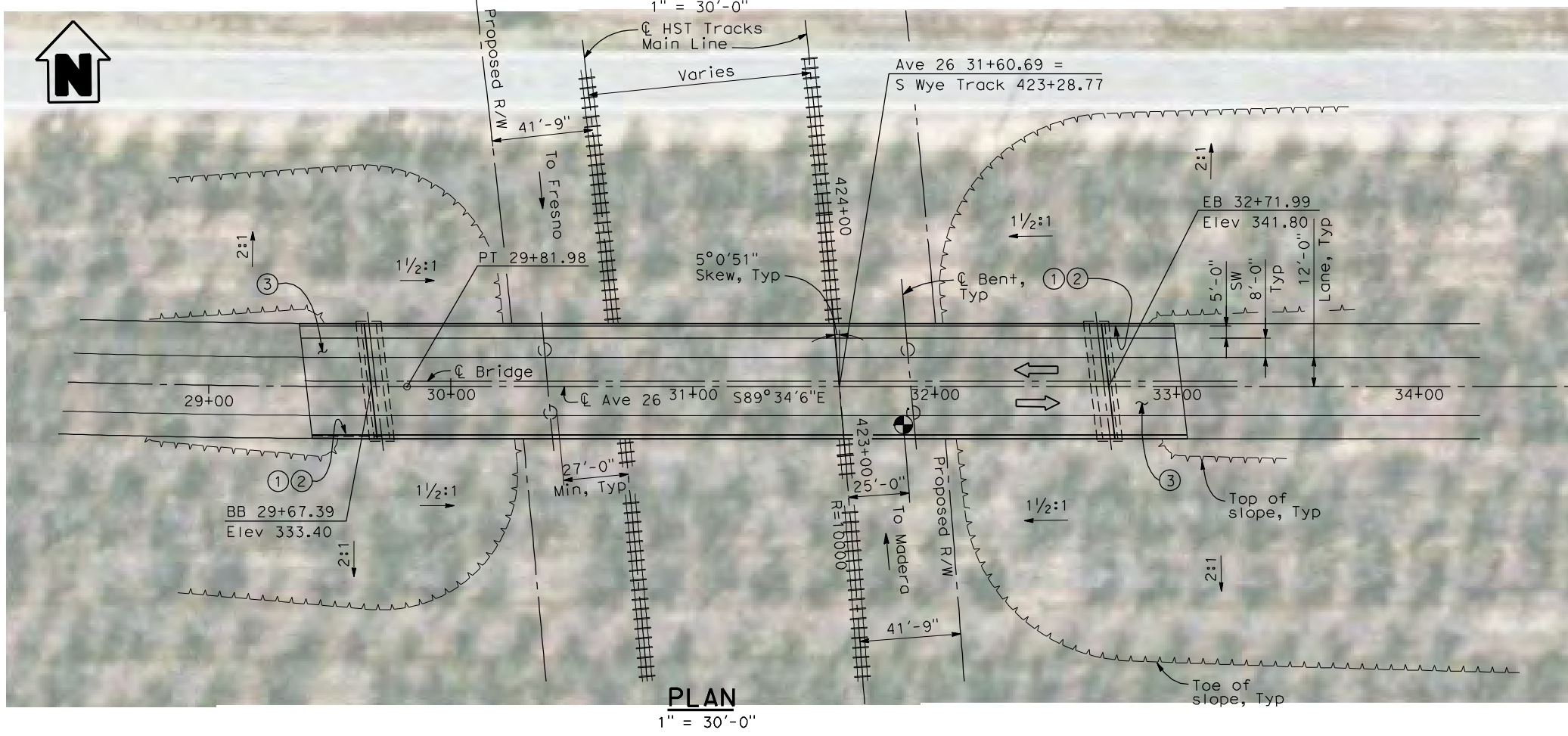
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- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Avenue 26 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	304'-7 1/4"
WIDTH	=	47'-6"
AREA	=	14,470 ft ²
COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

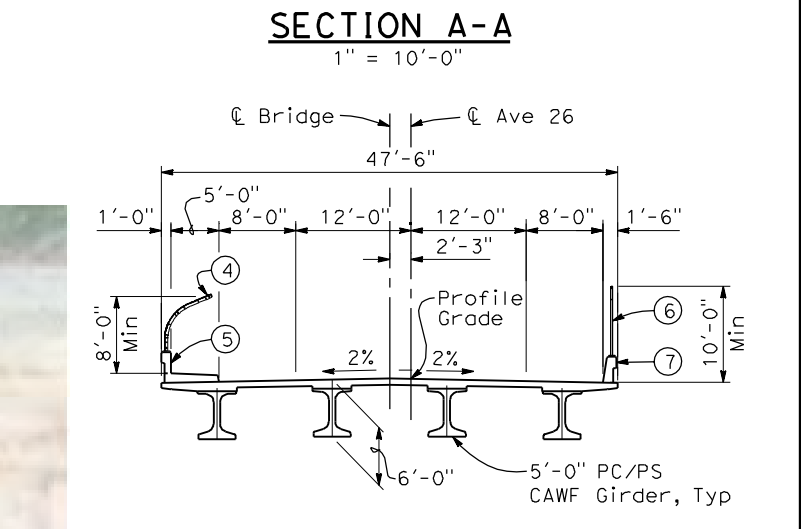
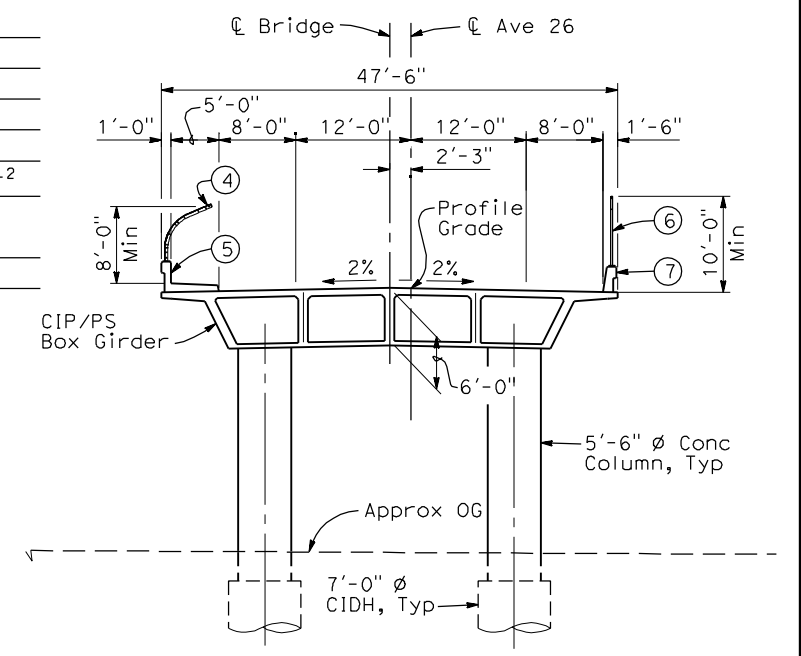
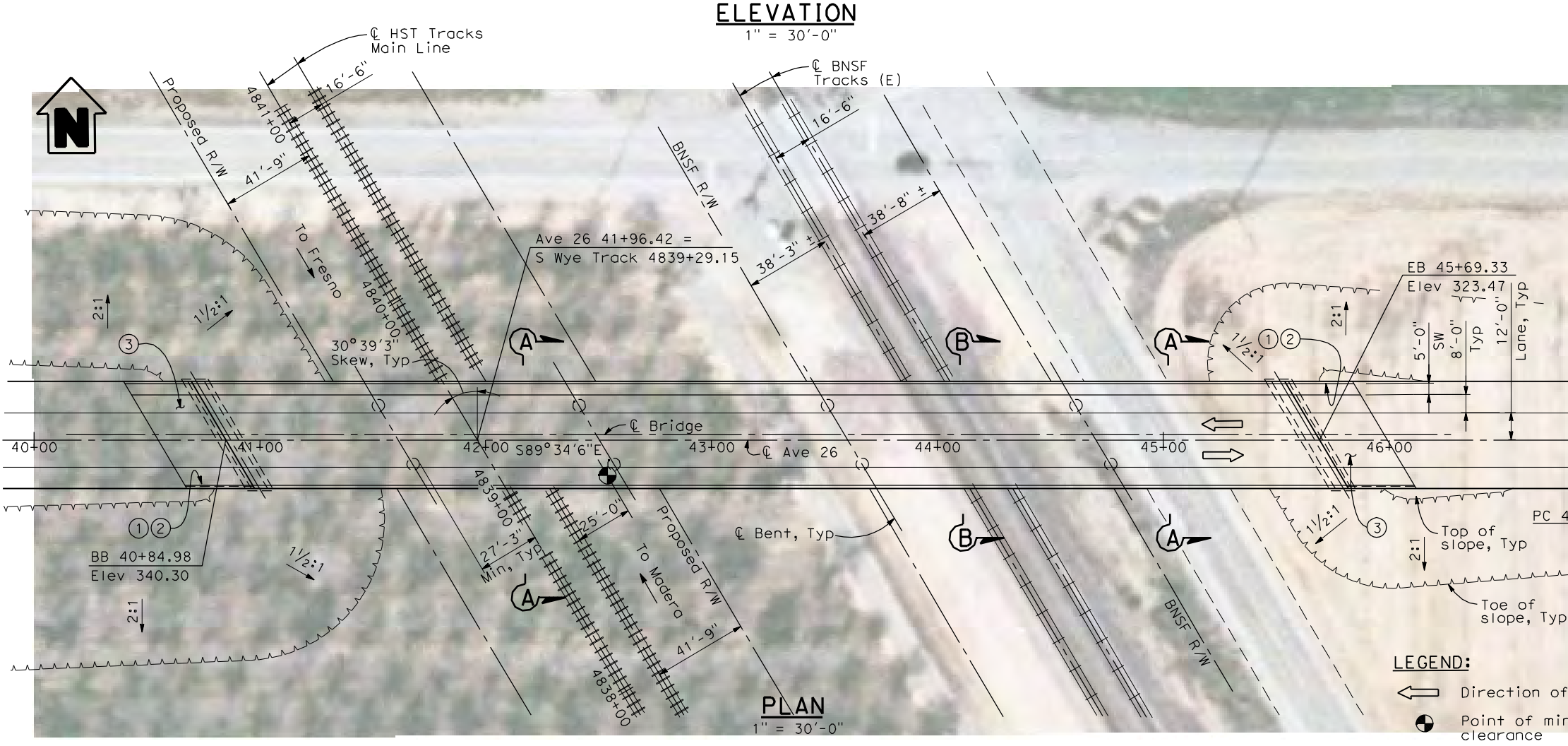
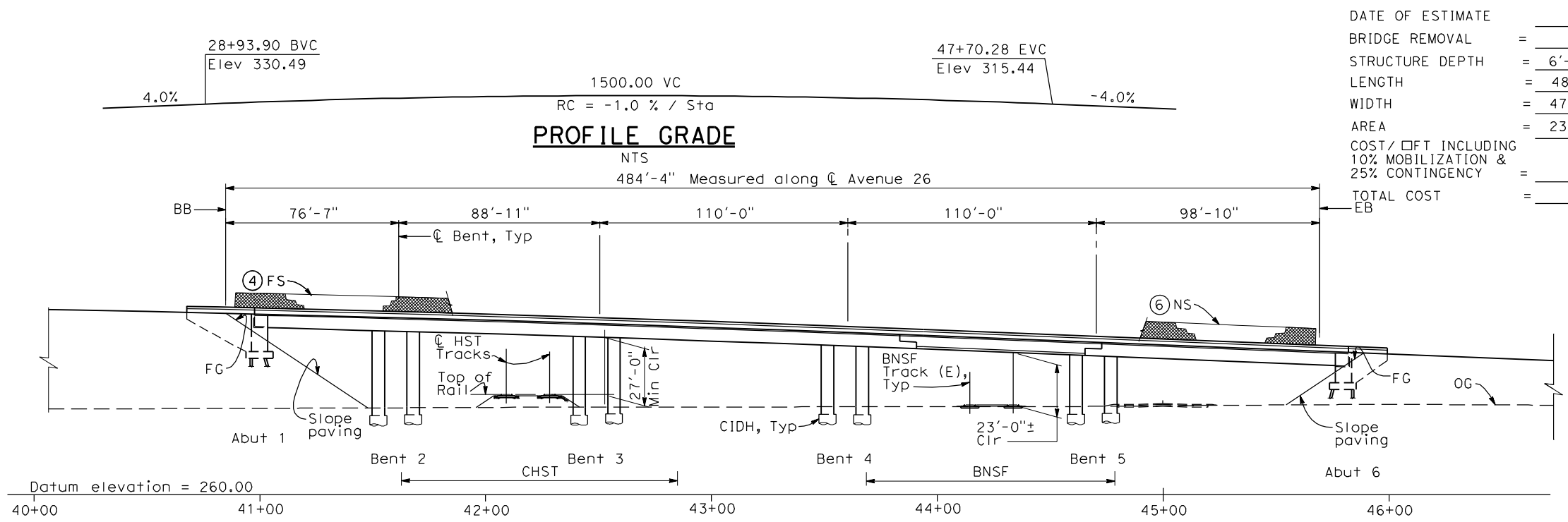
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 26 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1031
SCALE	As shown
SHEET NO.	OF

4/29/2011 2:21:26 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-24ML_VW-ML-ST-0H_Ave_26b.dgn



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Avenue 26 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.
- LEGEND:**
- \leftarrow Direction of traffic
- \oplus Point of minimum vertical clearance
- LOCATION 29**
- 30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 26 OVERHEAD
PLANNING STUDY

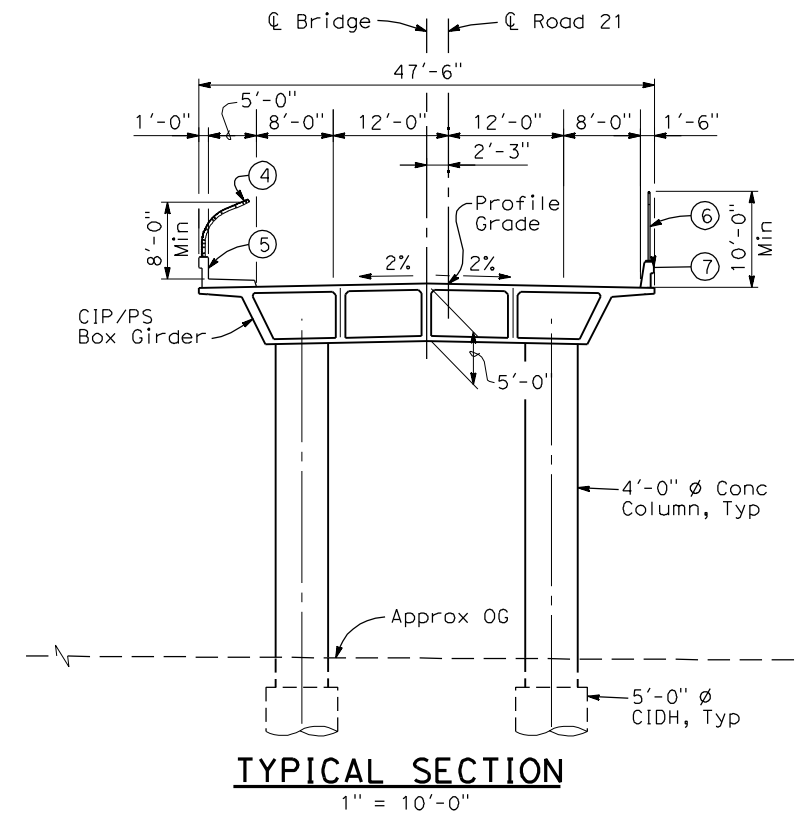
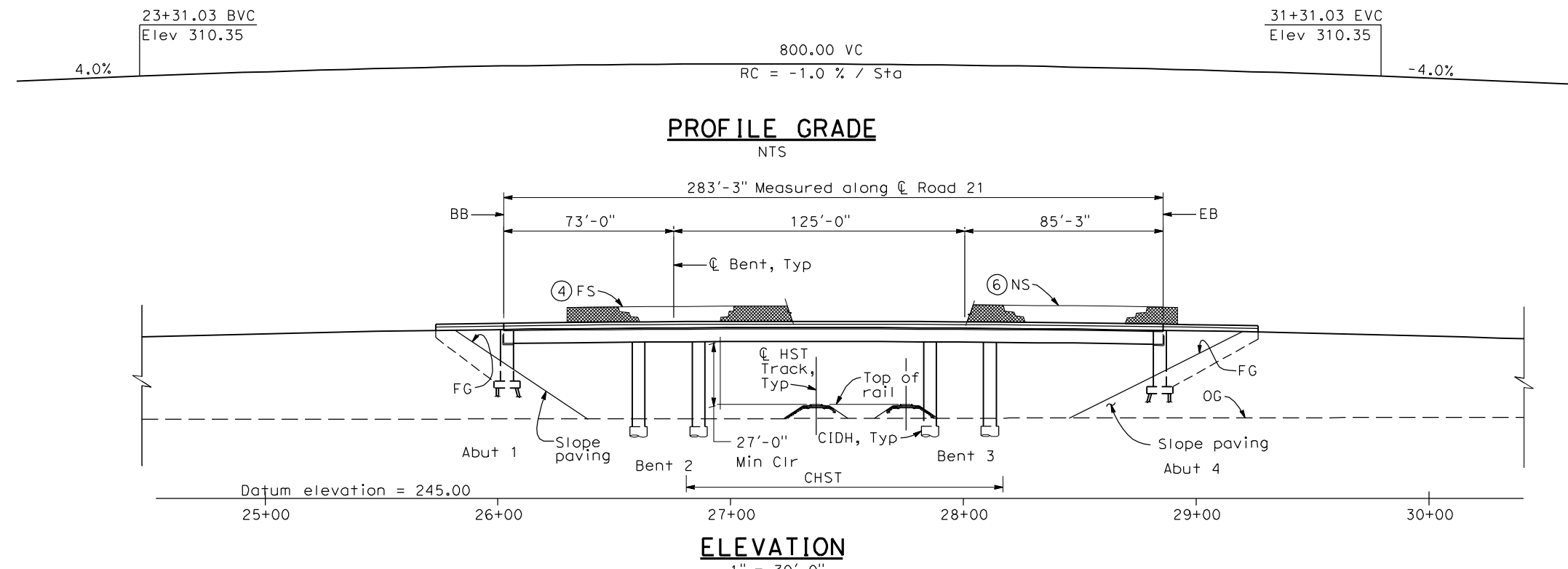
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1032

SCALE
As shown

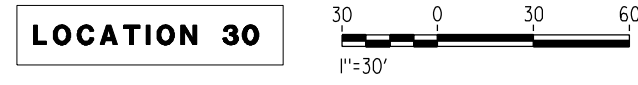
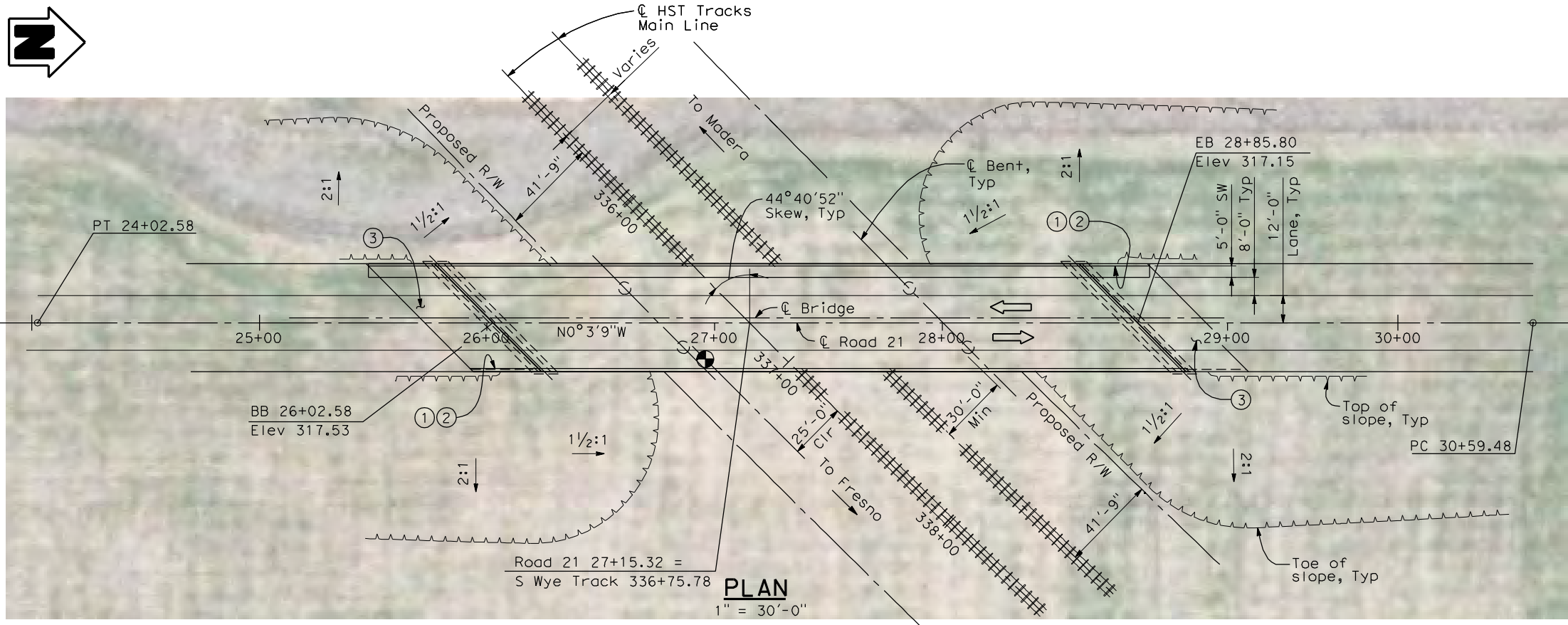
SHEET NO.
OF

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- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Road 21 OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Existing underground and overhead utilities to be determined.

- LEGEND:**
- Direction of traffic
 - Point of minimum vertical clearance
- DATE OF ESTIMATE _____
 BRIDGE REMOVAL = _____
 STRUCTURE DEPTH = 6'-0"
 LENGTH = 283'-3"
 WIDTH = 47'-6"
 AREA = 13,450 ft²
 COST/ \square FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____
 TOTAL COST = _____



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF WYE CONNECTION
 AVENUE 24
 ROAD 21 OVERHEAD
 PLANNING STUDY

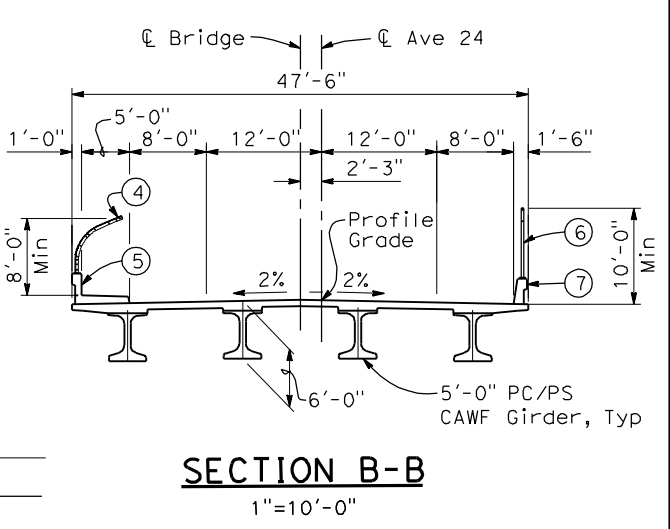
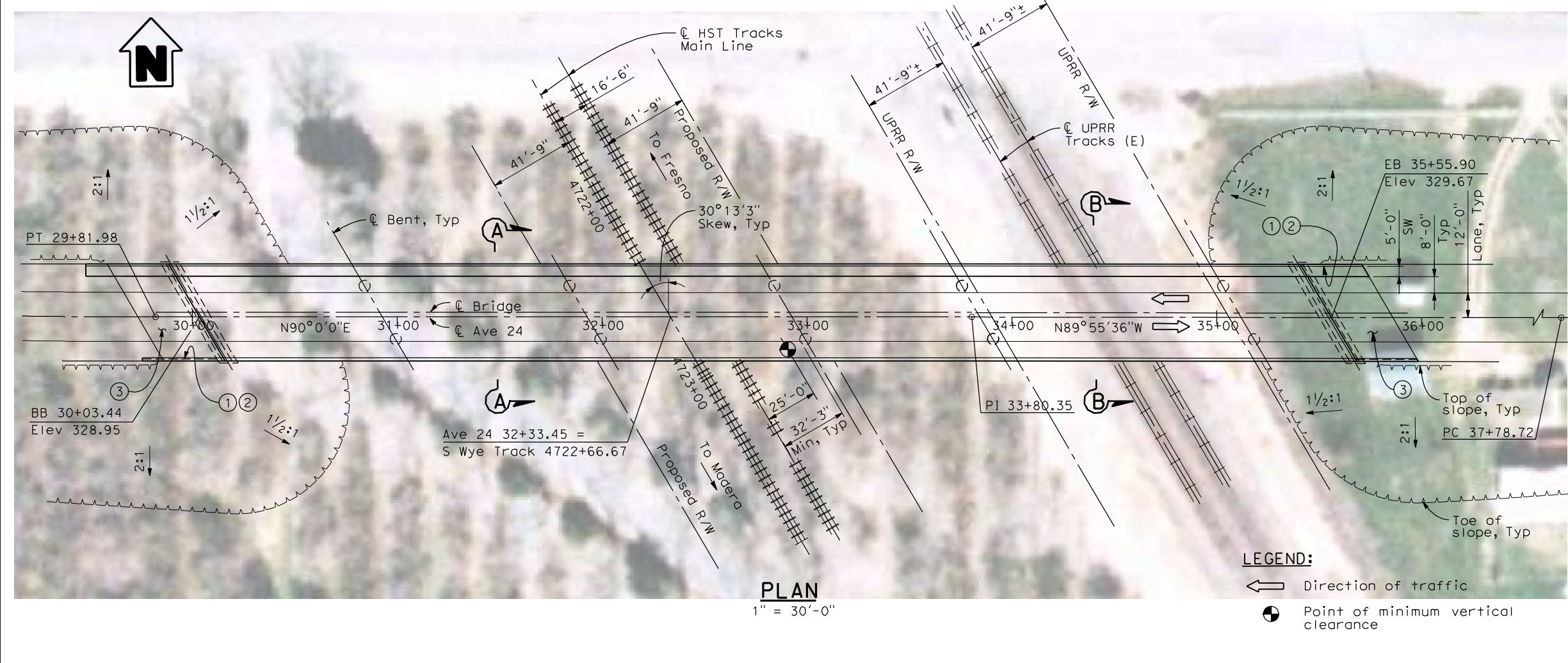
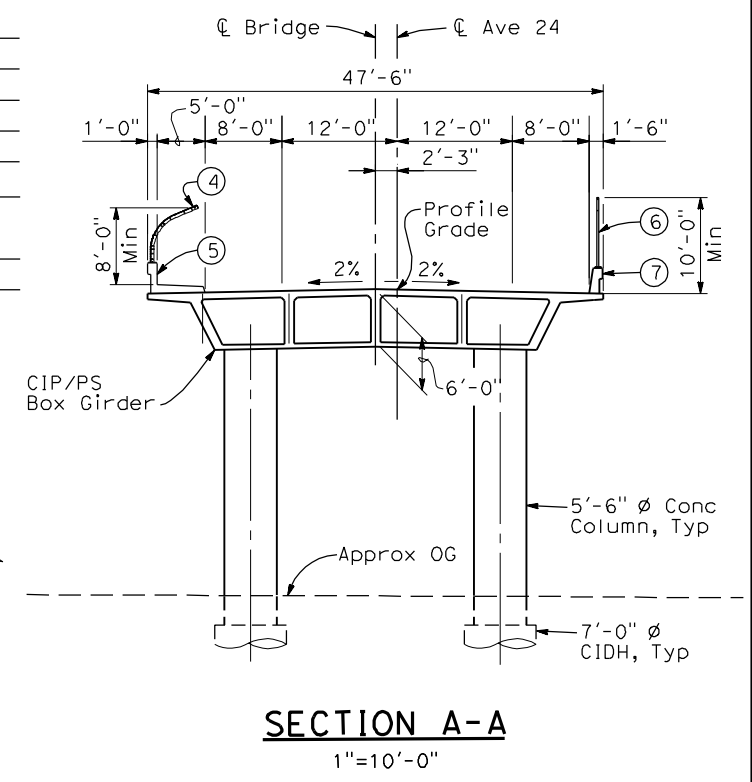
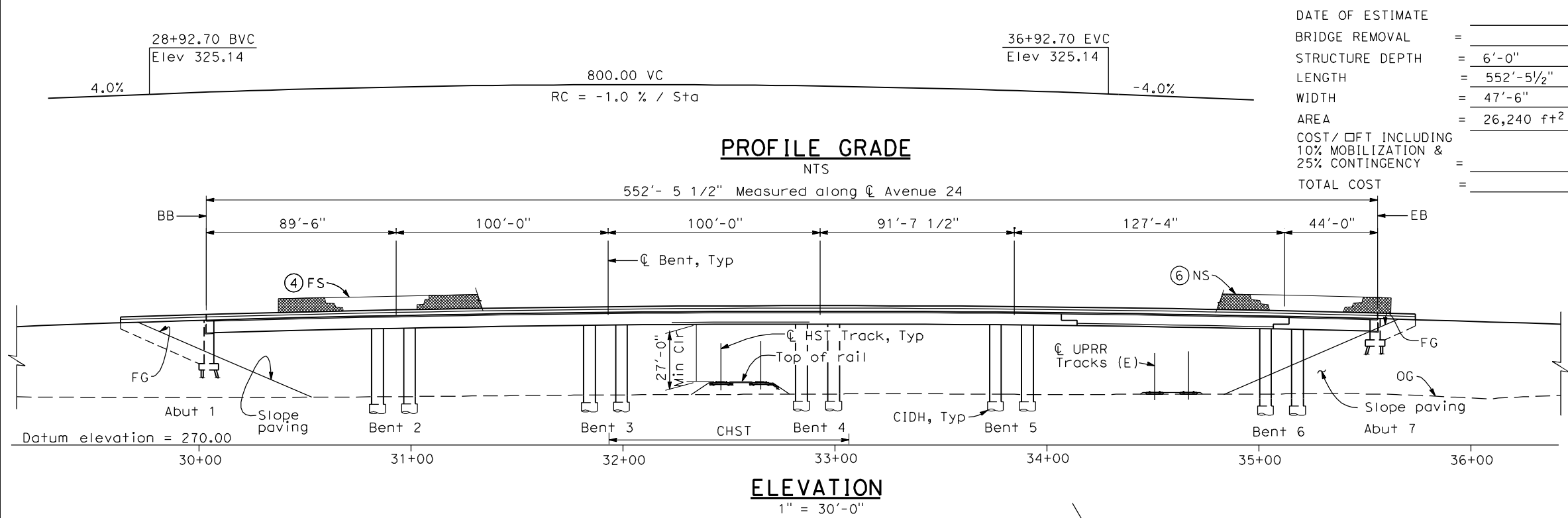
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1033

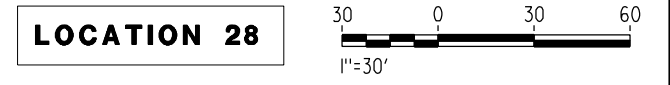
SCALE
As shown

SHEET NO.
OF

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- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Avenue 24 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
 DRAWN BY
E. CISNEROS
 CHECKED BY
K. LEE
 IN CHARGE
A. BOONE
 DATE
04/29/2011

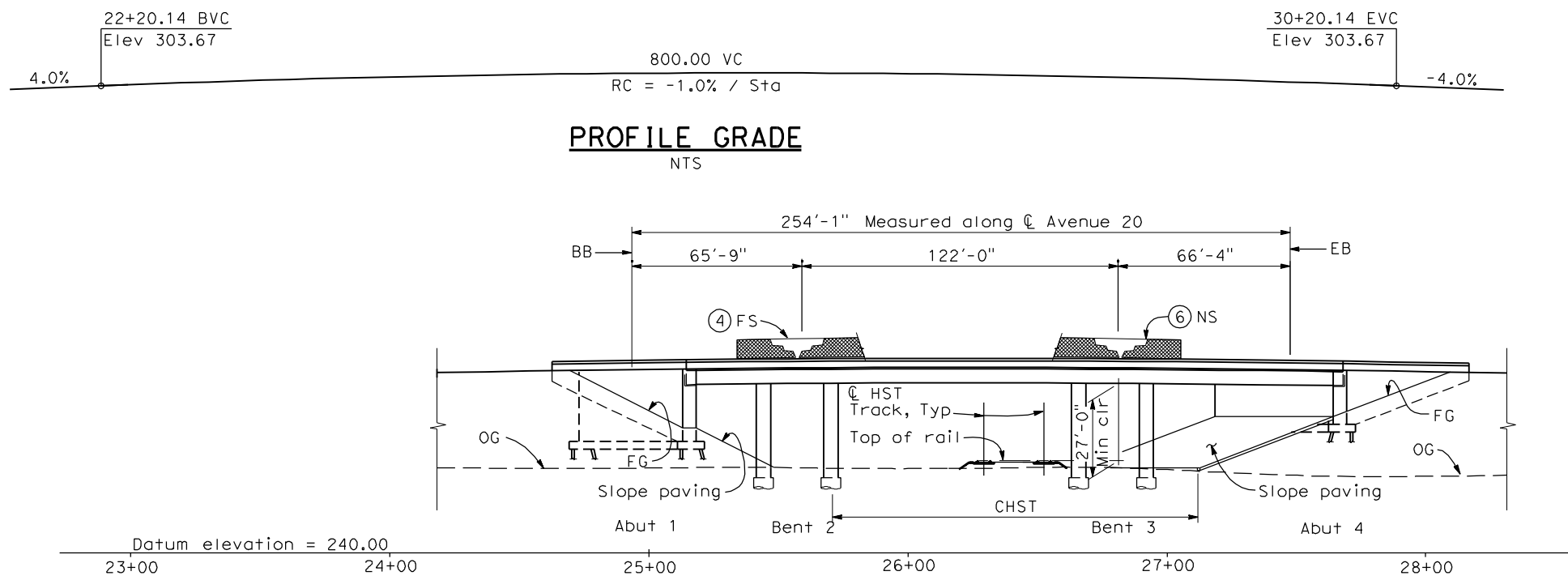
RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

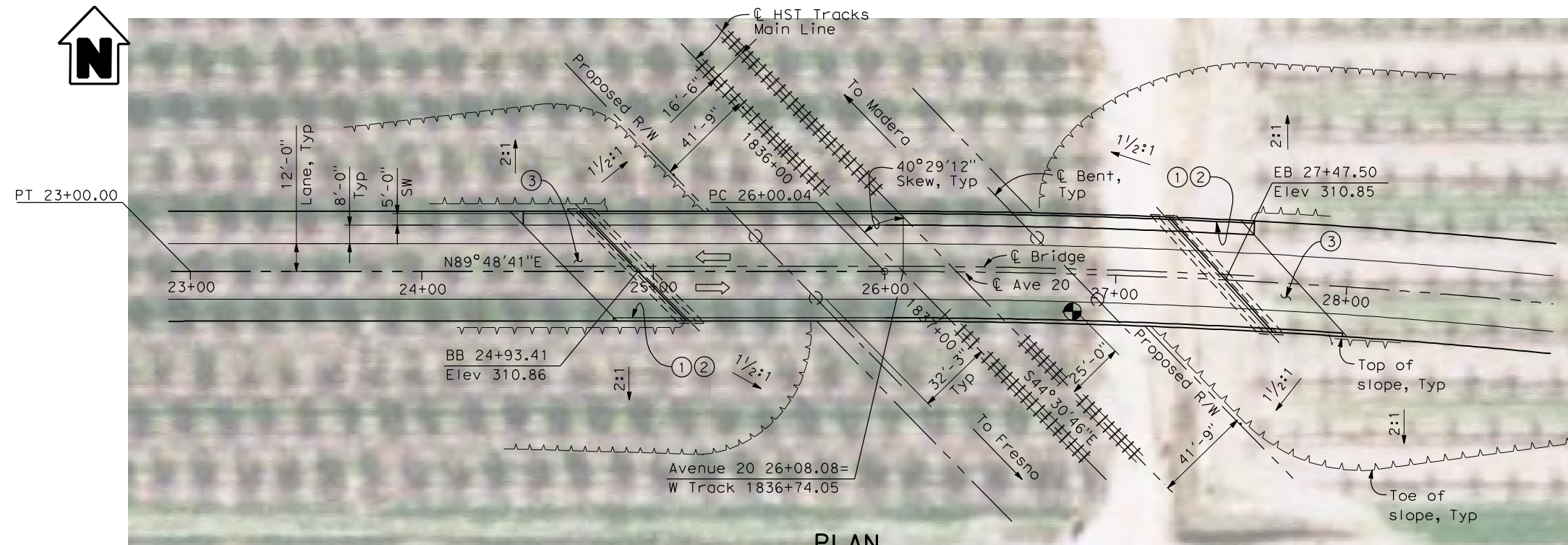


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF WYE CONNECTION
 AVENUE 24 OVERHEAD
 PLANNING STUDY

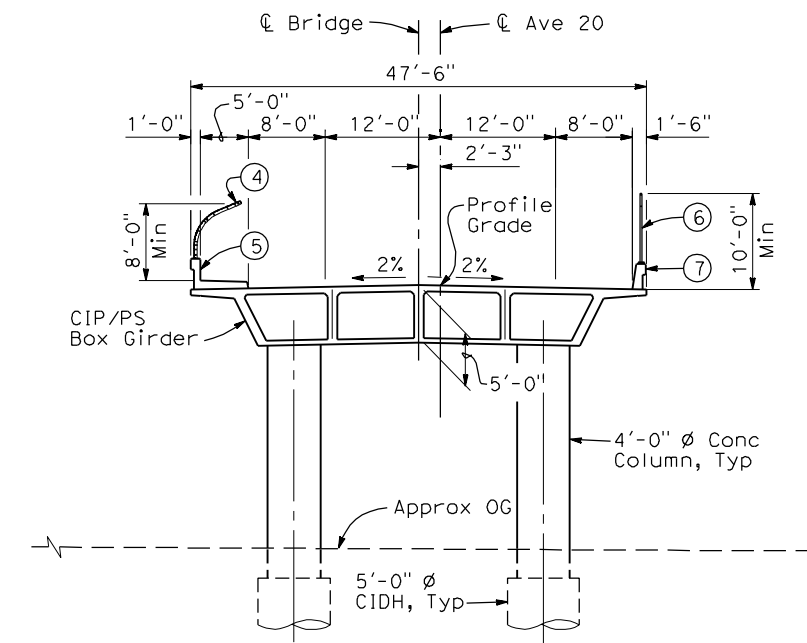
CONTRACT NO.
HSR06-007
 DRAWING NO.
ST1030
 SCALE
As shown
 SHEET NO.
OF



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

NOTES:

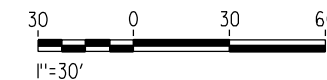
- ① Paint "Bridge No. XX-XX"
- ② Paint "Avenue 20 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- ⊙ Point of minimum vertical clearance
- Pt = Petroleum
- UG = Underground

Date of Estimate	_____
Bridge Removal	= _____
Structure Depth	= 5'-0"
Length	= 254'-1"
Width	= 47'-6"
Area	= 12,068 ft ²
Cost/□ft including 10% Mobilization & 25% Contingency	= _____
Total Cost	= _____

LOCATION 32



4/28/2011 6:06:12 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-24ML_W-ML-ST-OH_Ave_20.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
K. LEE
IN CHARGE
A. Boone
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

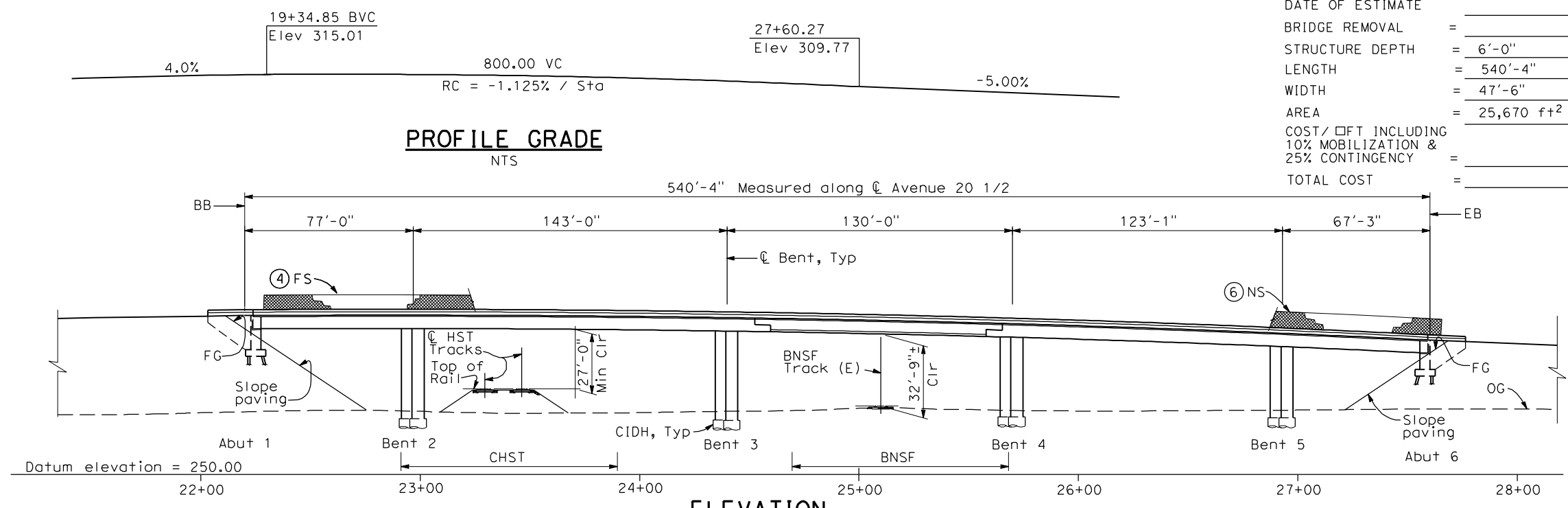
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 20 OVERHEAD
PLANNING STUDY

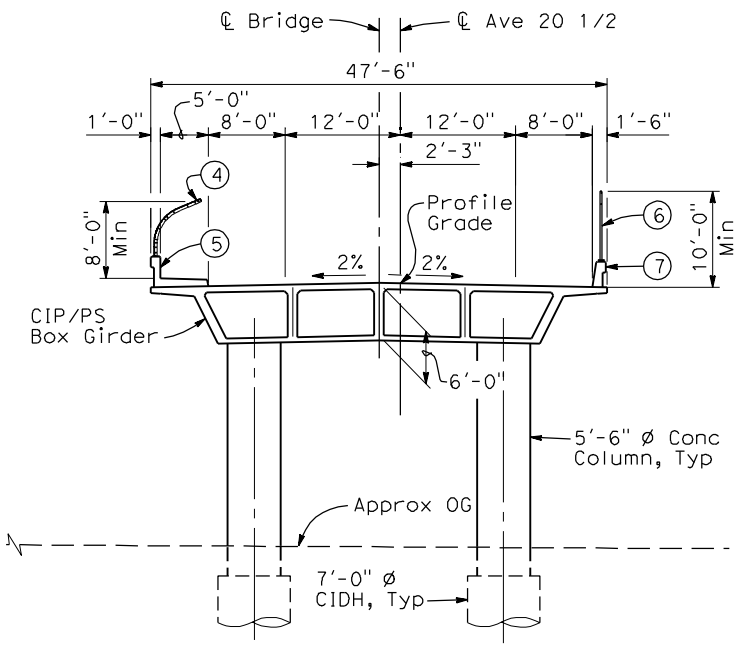
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1035
SCALE
As shown
SHEET NO.
OF

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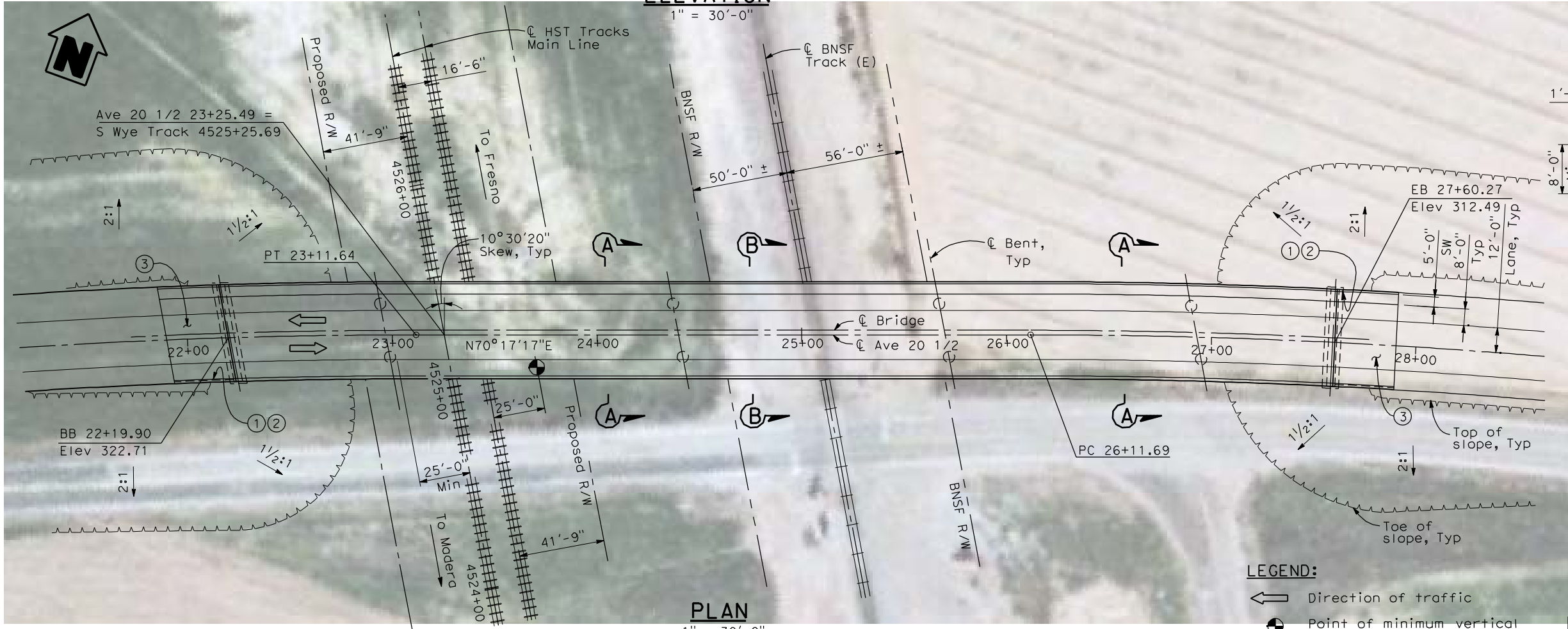


ELEVATION
1" = 30'-0"

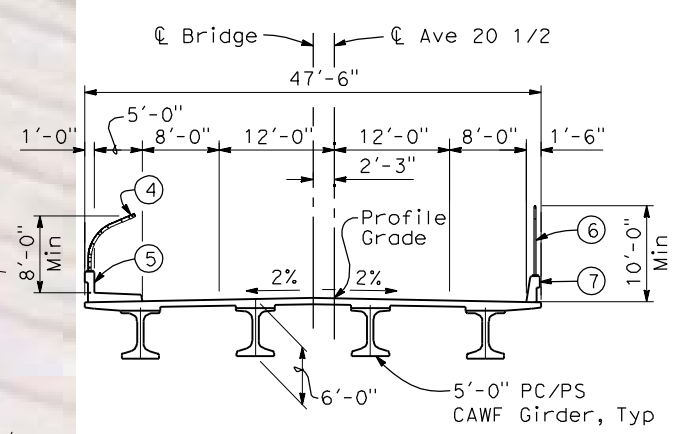
DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	540'-4"
WIDTH	=	47'-6"
AREA	=	25,670 ft ²
COST / OFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



SECTION A-A
1" = 10'-0"



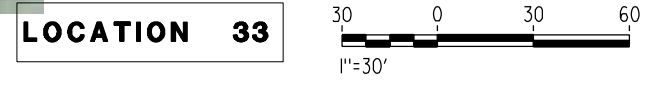
PLAN
1" = 30'-0"



SECTION B-B
1" = 10'-0"

- NOTES:**
- ① Point "Bridge No. XX-XX"
 - ② Point "Avenue 20 1/2 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

LEGEND:
 Direction of traffic
 Point of minimum vertical clearance



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
 DRAWN BY
E. CISNEROS
 CHECKED BY
J. RENTERIA
 IN CHARGE
A. BOONE
 DATE
04/29/2011

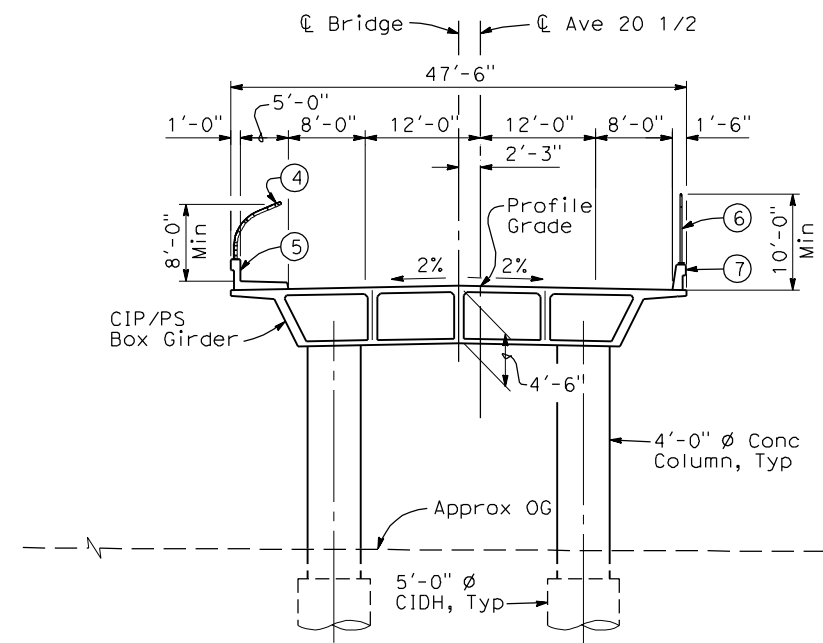
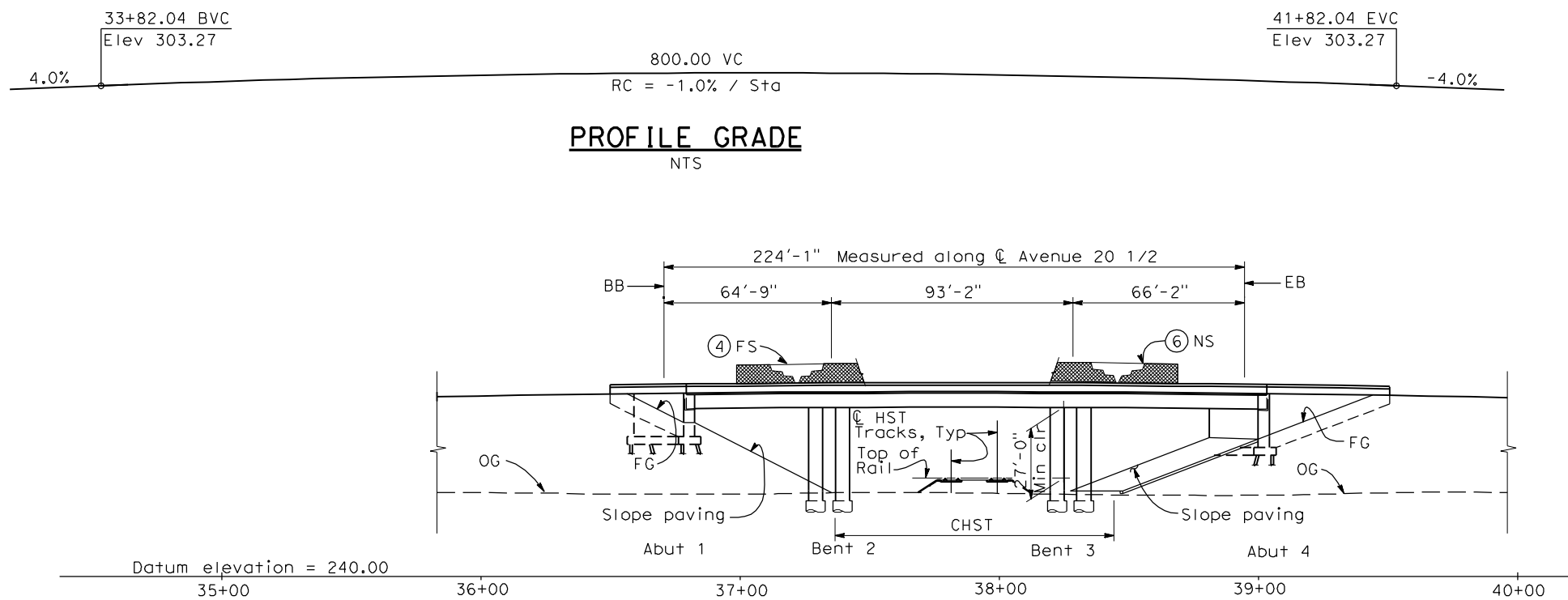
RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE
 AVENUE 24
 AVENUE 20 1/2 OVERHEAD
 PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1036
SCALE	As shown
SHEET NO.	OF



TYPICAL SECTION
1"=10'-0"

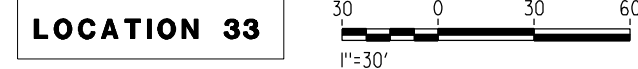
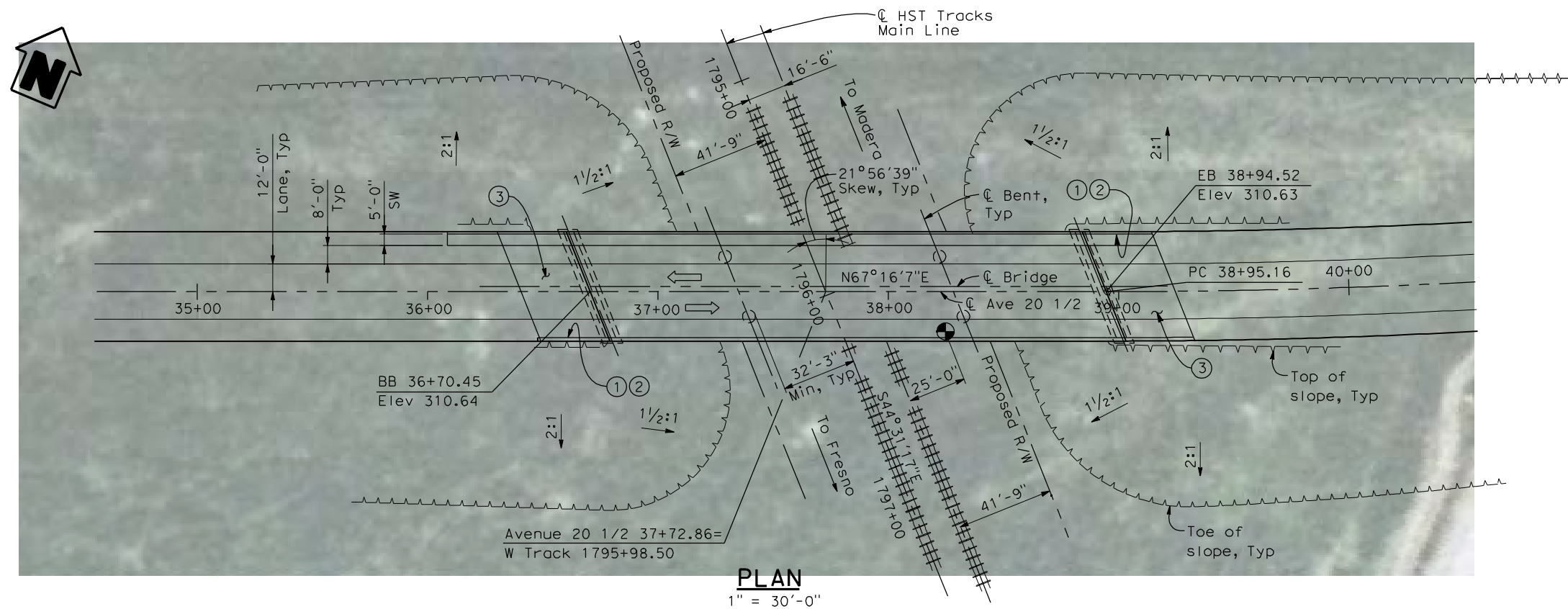
NOTES:

- ① Paint "Bridge No. XX-XX"
- ② Paint "Ave 20 1/2 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- ⊙ Point of minimum vertical clearance
- Pt = Petroleum
- UG = Underground

Date of Estimate	_____
Bridge Removal	= _____
Structure Depth	= 4'-6"
Length	= 224'-1"
Width	= 47'-6"
Area	= 10,643 ft ²
Cost/□ft including 10% Mobilization & 25% Contingency	= _____
Total Cost	= _____



4/28/2011 6:08:20 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-24ML_W-ML-ST-OH_Ave_20.5b.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
K. LEE
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

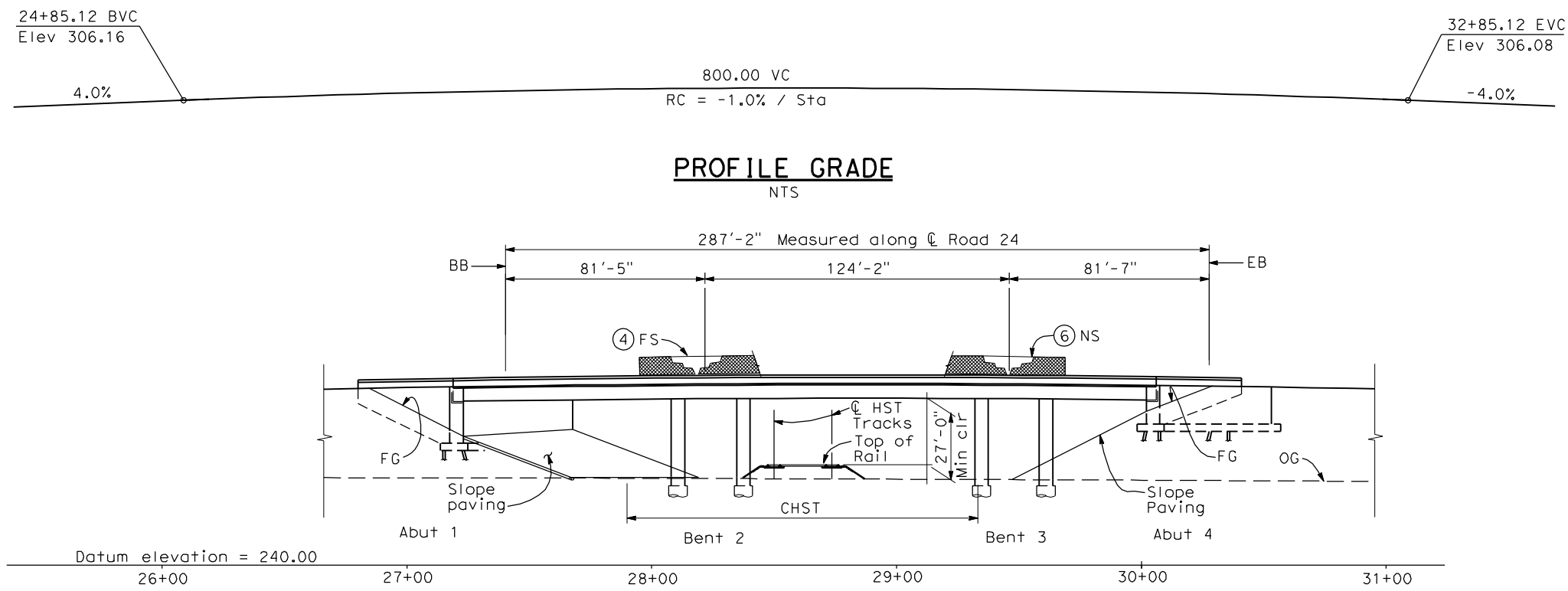
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 20 1/2 OVERHEAD
PLANNING STUDY

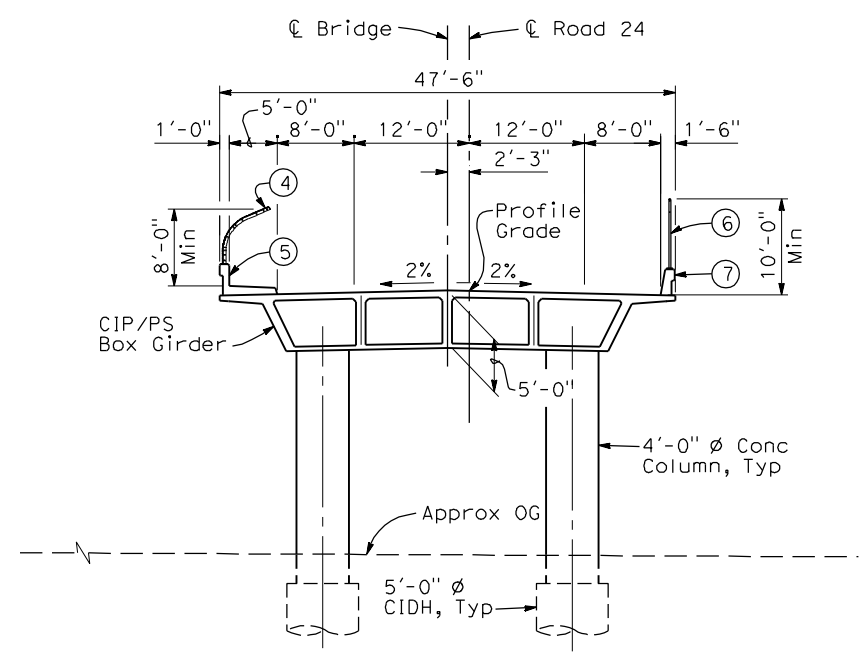
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1037
SCALE
As shown
SHEET NO.
OF

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PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 24 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance
- Pt = Petroleum
- UG = Underground

Date of Estimate _____

Bridge Removal = _____

Structure Depth = 5'-0"

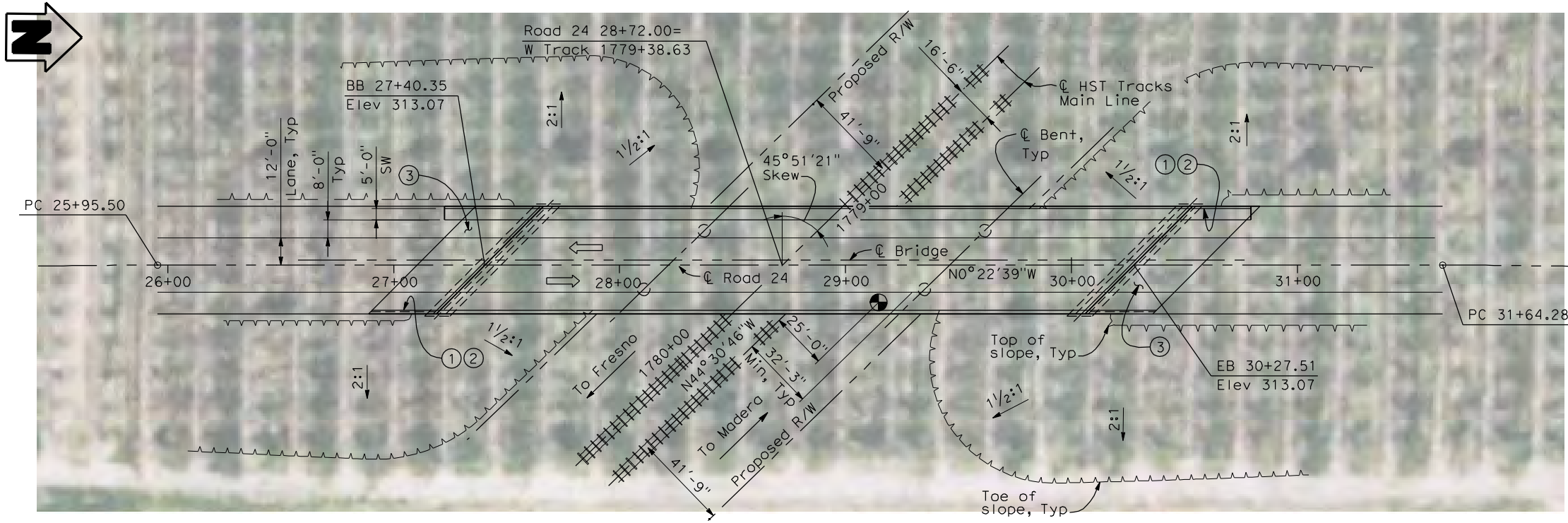
Length = 258'-2"

Width = 47'-6"

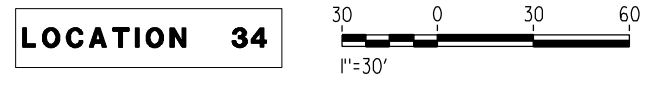
Area = 12,261 ft²

Cost/ Dft including 10% Mobilization & 25% Contingency = _____

Total Cost = _____



PLAN
1" = 30'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. Boone

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 24 OVERHEAD
PLANNING STUDY

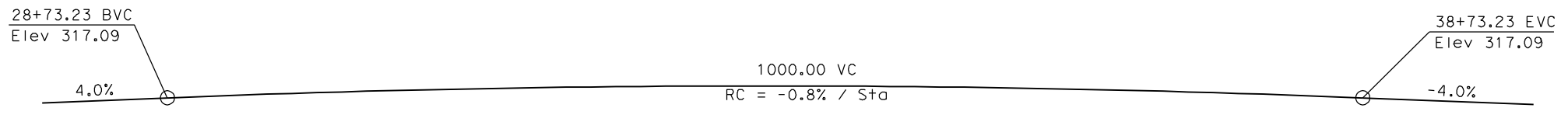
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1038

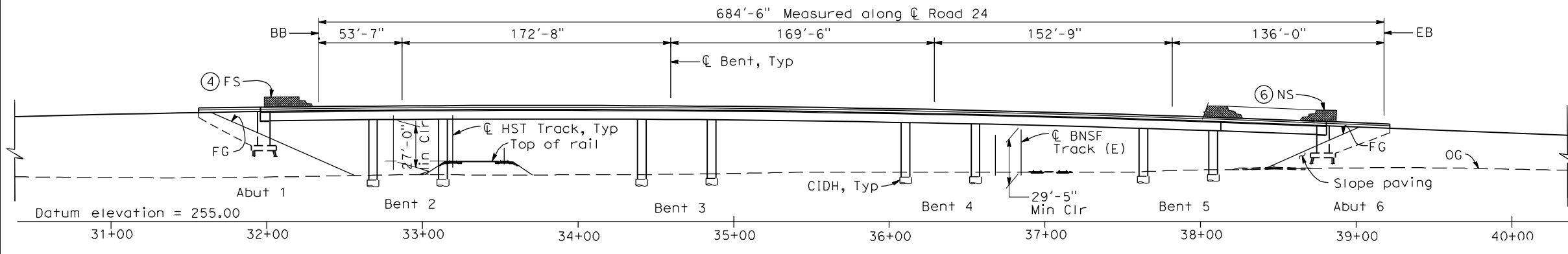
SCALE
As shown

SHEET NO.
OF

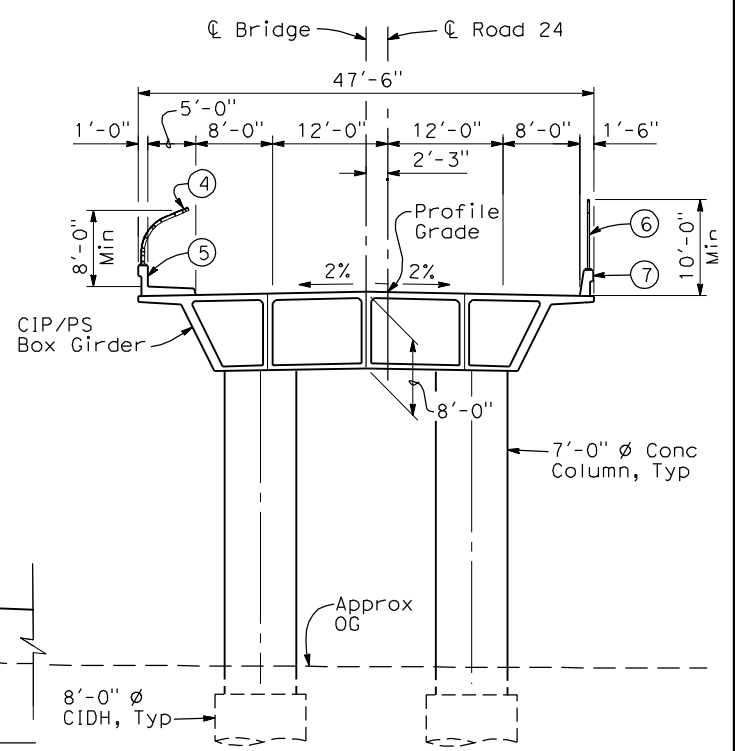
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PROFILE GRADE
NTS



ELEVATION
1" = 40'-0"



TYPICAL SECTION
1" = 10'-0"

- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 24 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 8'-0"

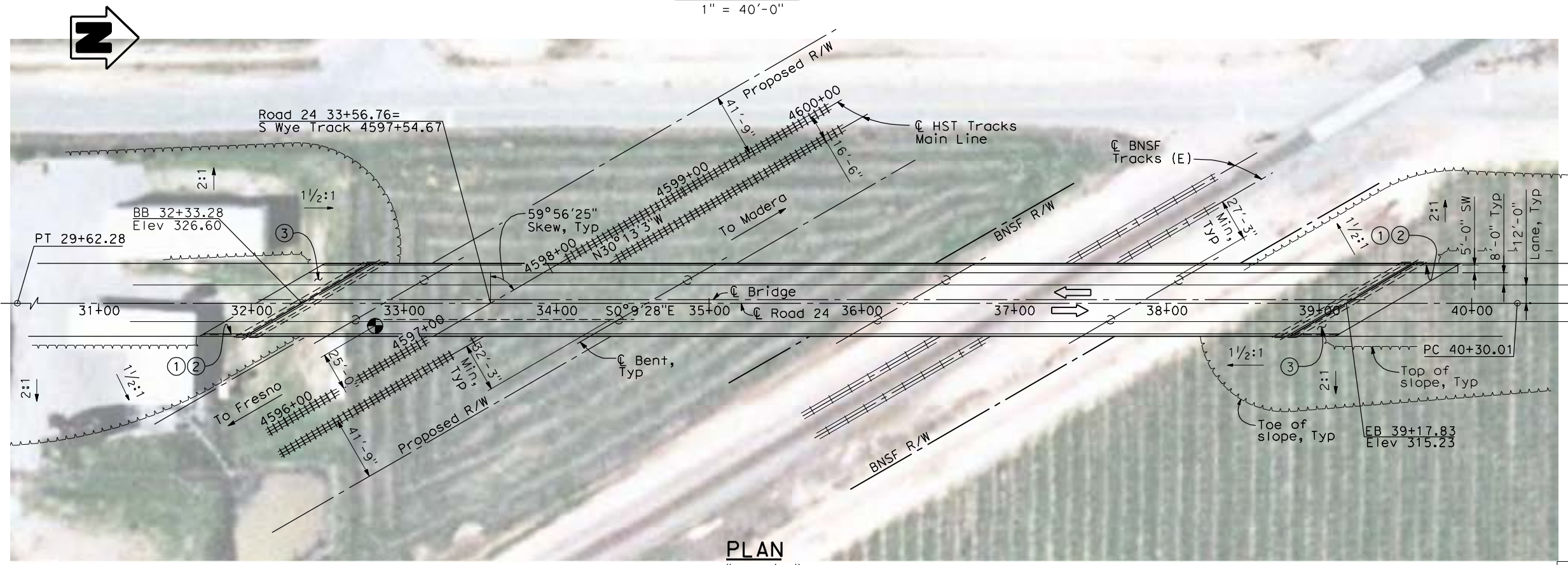
LENGTH = 684'-6"

WIDTH = 47'-6"

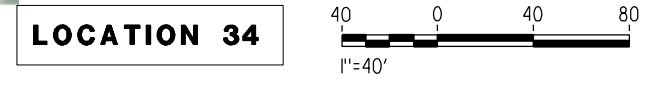
AREA = 32,510 ft²

COST/□FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____



PLAN
1" = 40'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. BOONE

DATE
04/29/2011

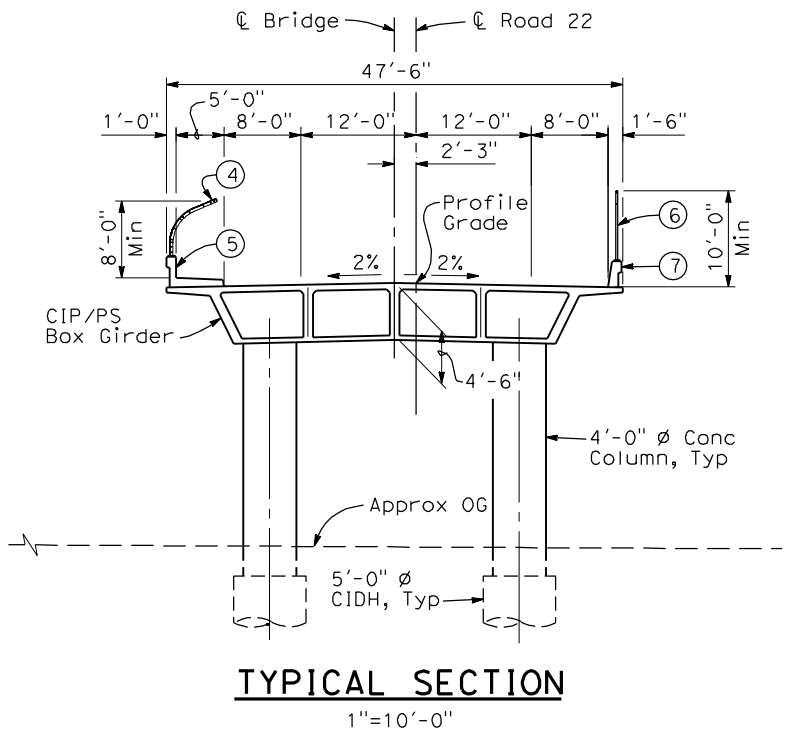
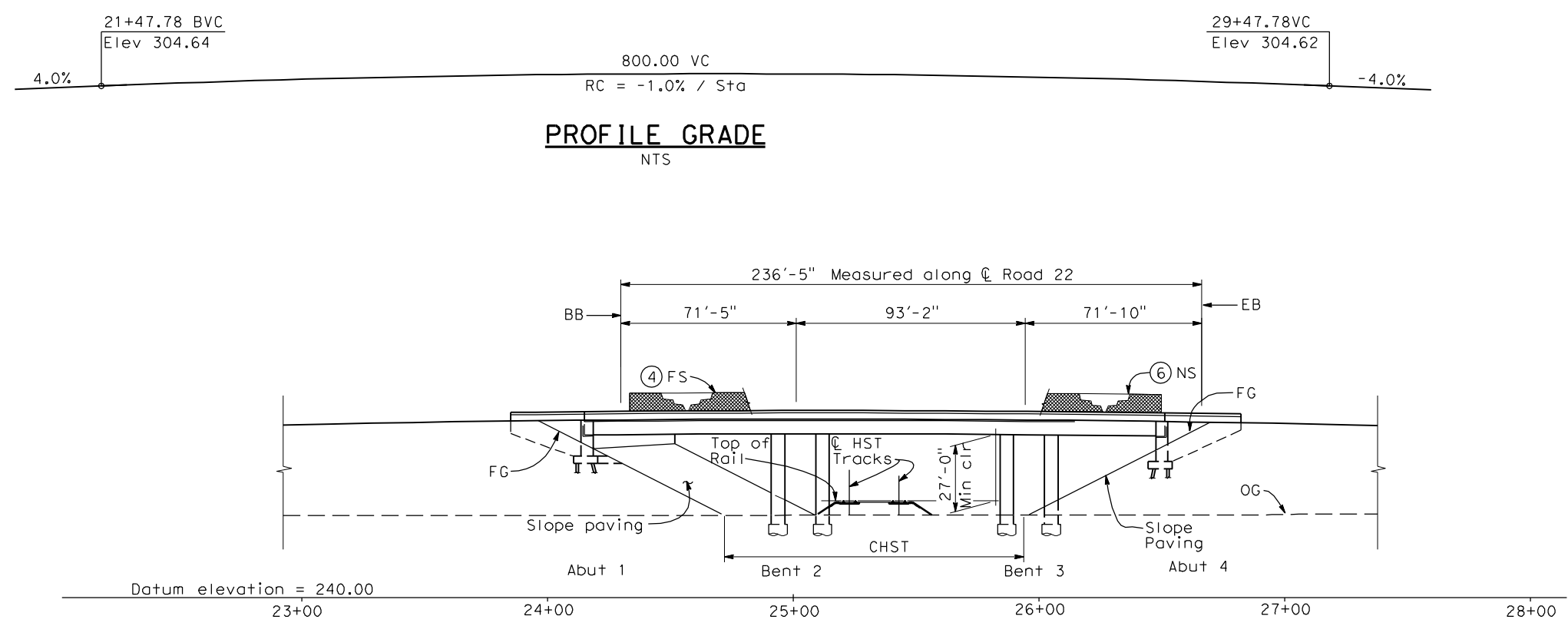
RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

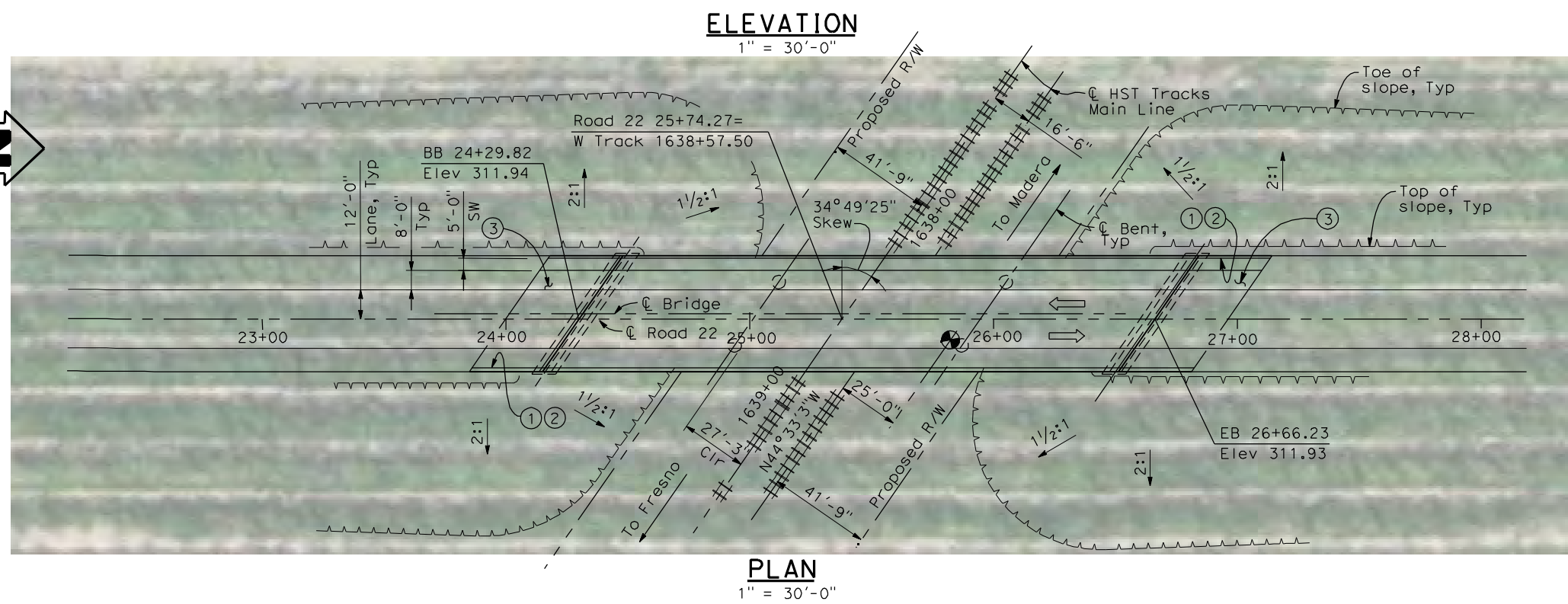


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 24 OVERHEAD
PLANNING STUDY

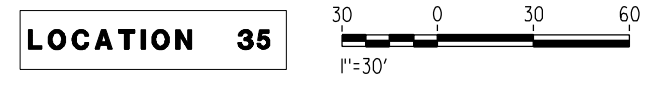
CONTRACT NO. HSR06-007
DRAWING NO. ST1039
SCALE As shown
SHEET NO. OF



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 22 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.



- LEGEND:**
- ← Direction of traffic
 - ⊙ Point of minimum vertical clearance
 - P+ = Petroleum
 - UG = Underground
- Date of Estimate _____
- Bridge Removal = _____
- Structure Depth = 4'-6"
- Length = 236'-5"
- Width = 47'-6"
- Area = 11,230 ft²
- Cost/ Dft including 10% Mobilization & 25% Contingency = _____
- Total Cost = _____



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. Boone

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 22 OVERHEAD
PLANNING STUDY

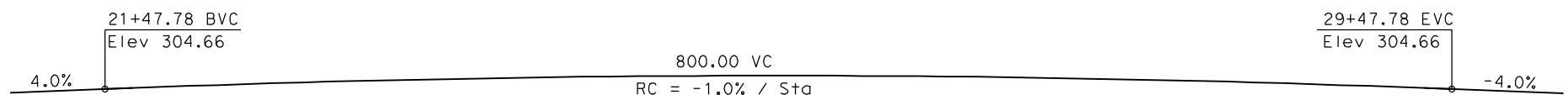
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1040

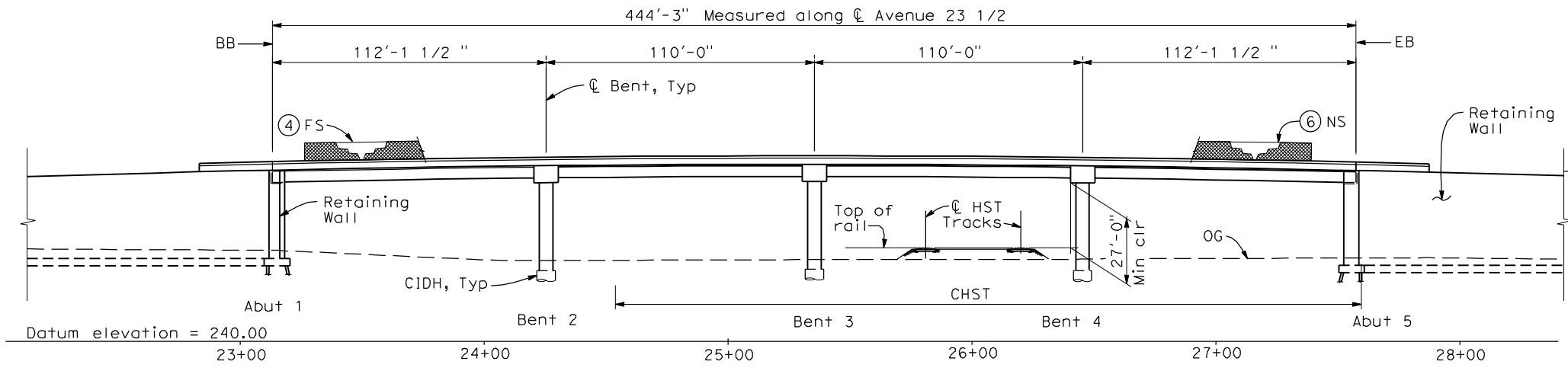
SCALE
As shown

SHEET NO.
OF

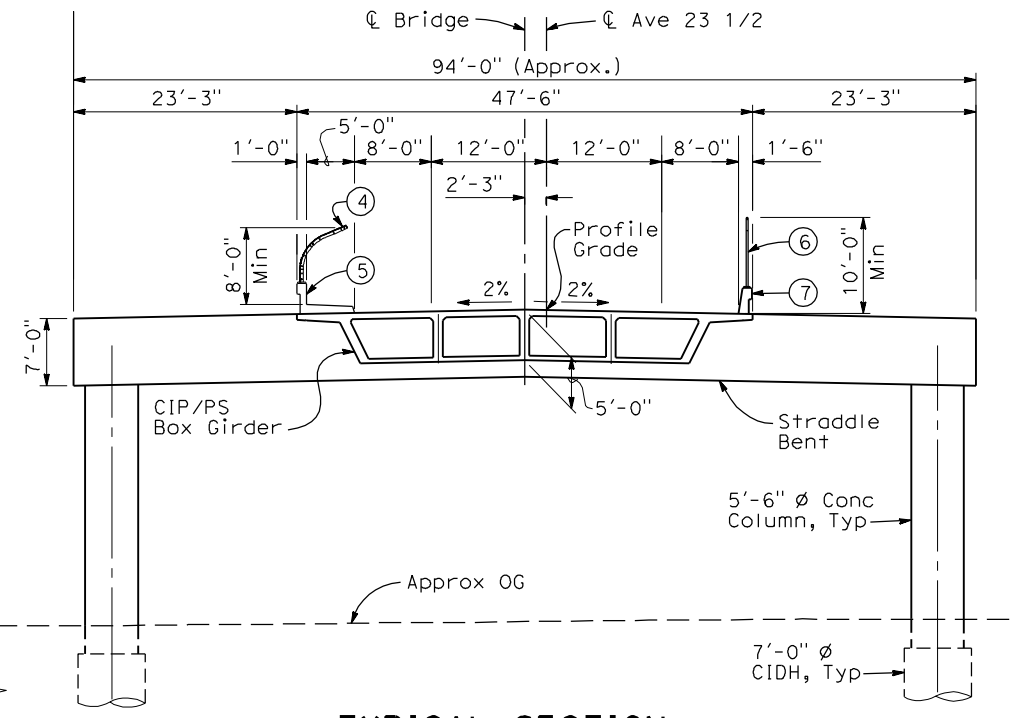
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PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

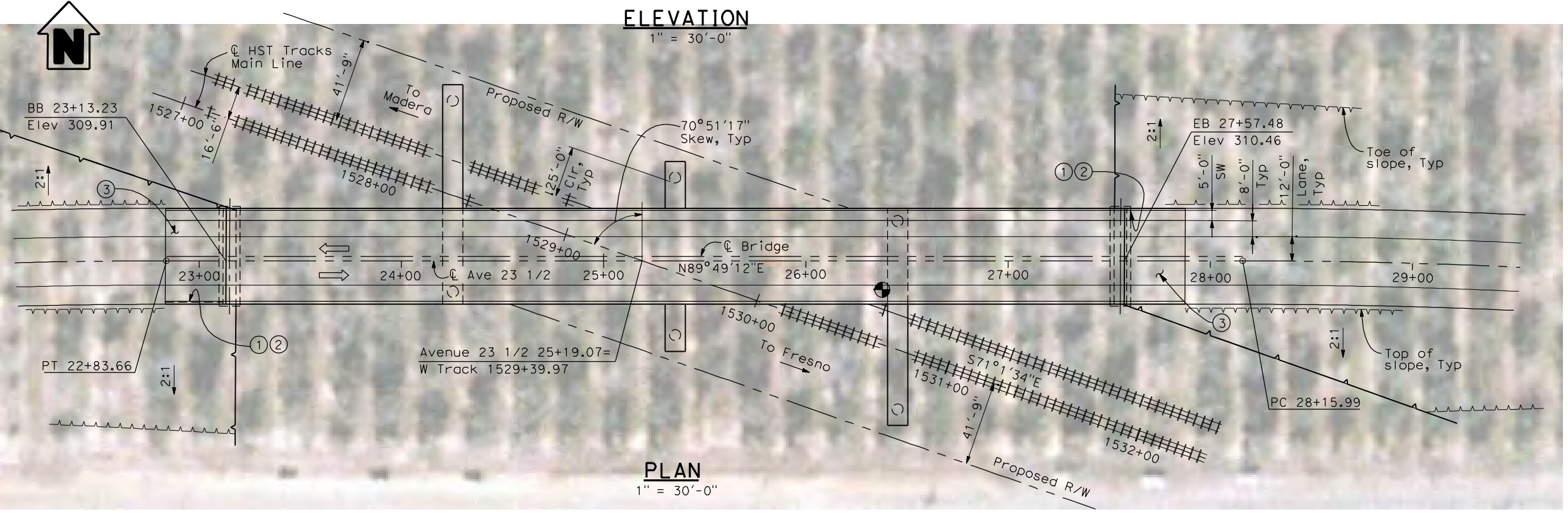
NOTES:

- ① Paint "Bridge No. XX-XX"
- ② Paint "Ave 23 1/2 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

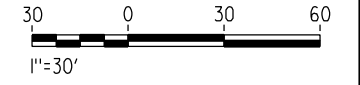
- ← Direction of traffic
- Point of minimum vertical clearance

Date of Estimate	_____
Bridge Removal	= _____
Structure Depth	= 5'-0"
Length	= 444'-3"
Width	= 47'-6"
Area	= 21,100 ft ²
Cost/□ft including 10% Mobilization & 25% Contingency	= _____
Total Cost	= _____



PLAN
1" = 30'-0"

LOCATION 36



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
K. LEE
IN CHARGE
A. Boone
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

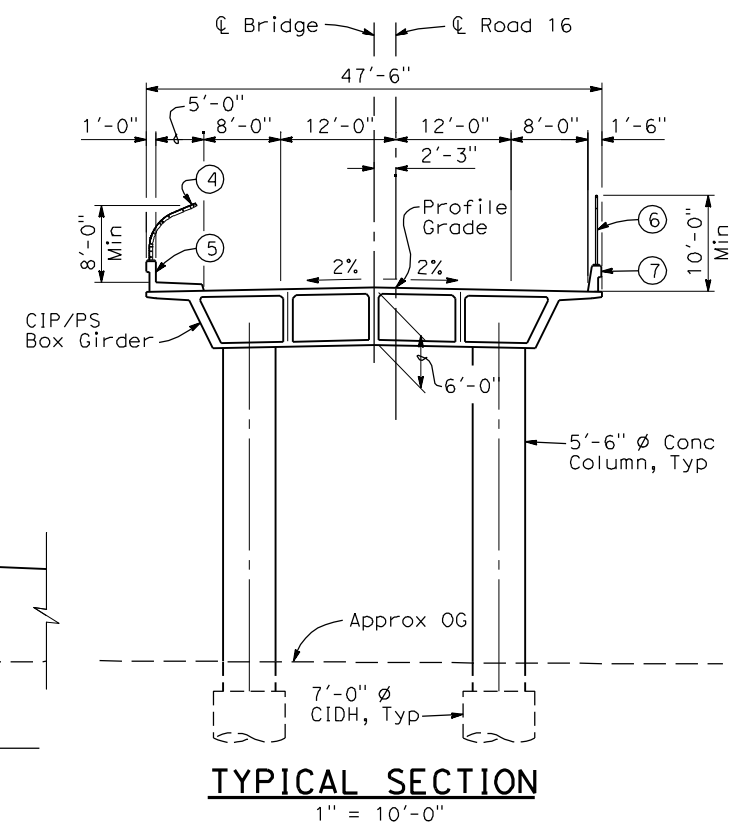
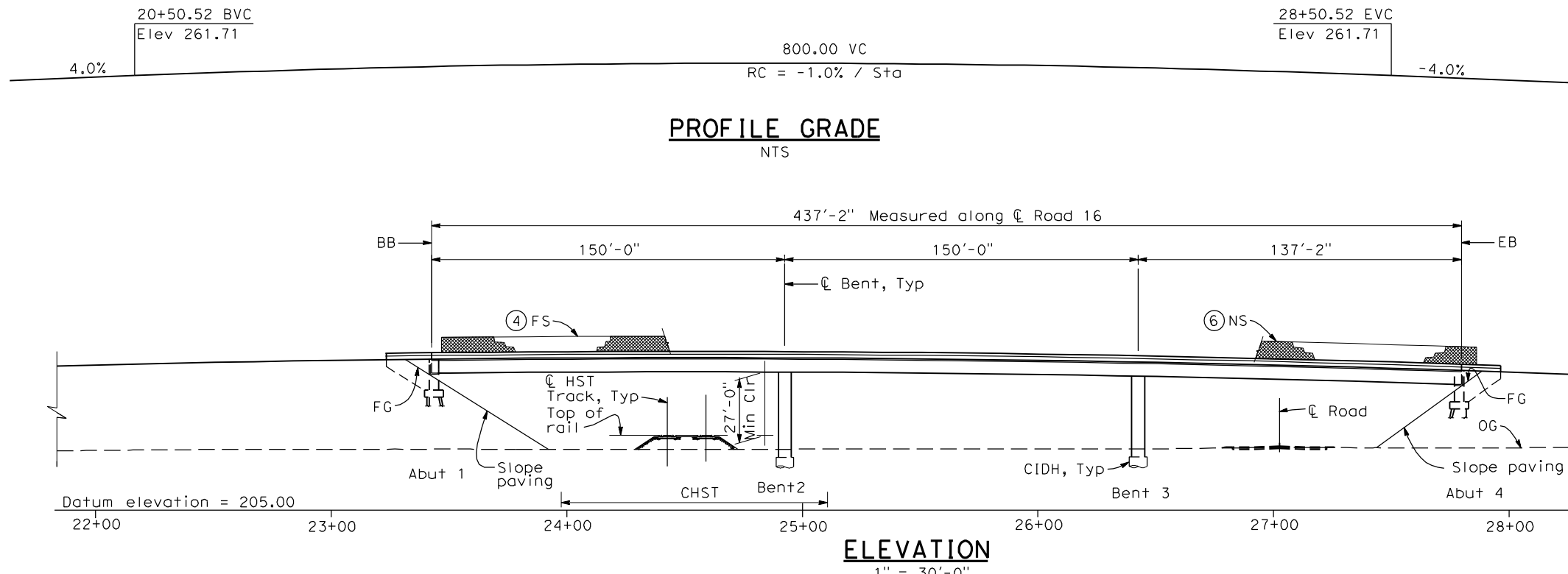
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 23 1/2 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1041
SCALE	As shown
SHEET NO.	OF

4/29/2011 2:57:23 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-24ML_WF-ST-OH_Rd_16.dgn



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 16 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 6'-0"

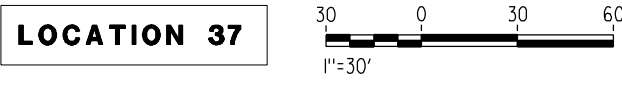
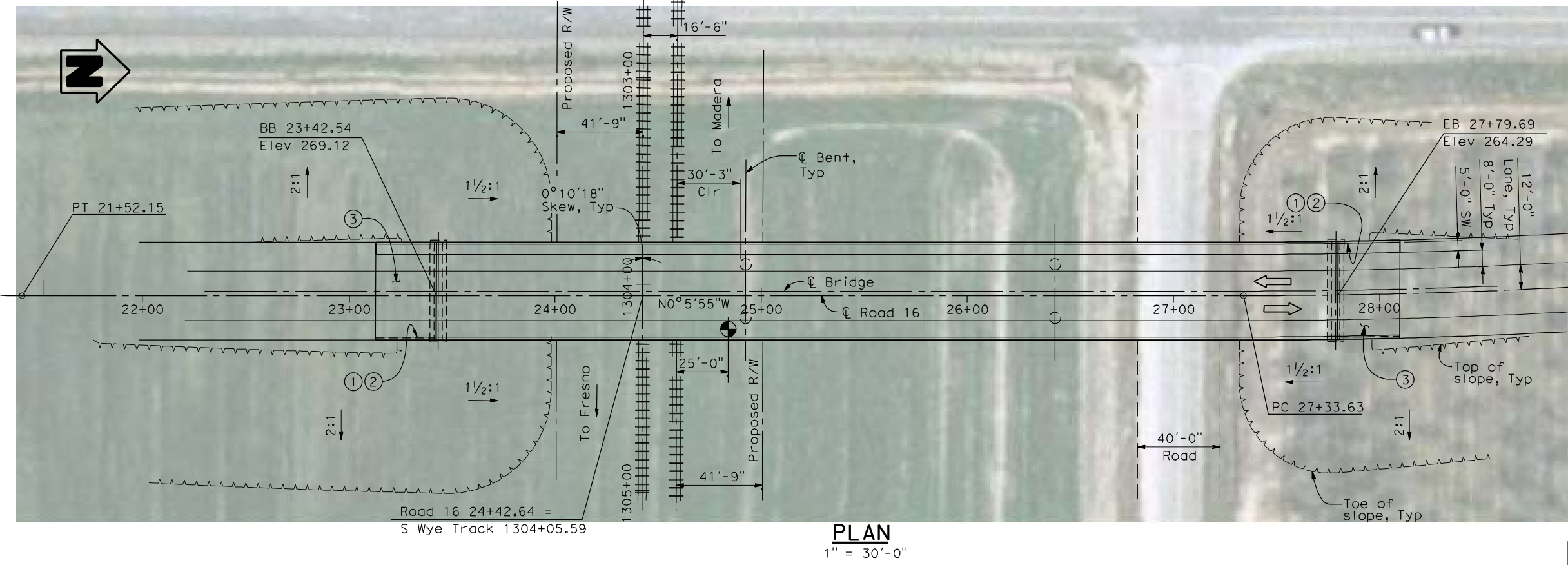
LENGTH = 437'-2"

WIDTH = 47'-6"

AREA = 20,770 ft²

COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

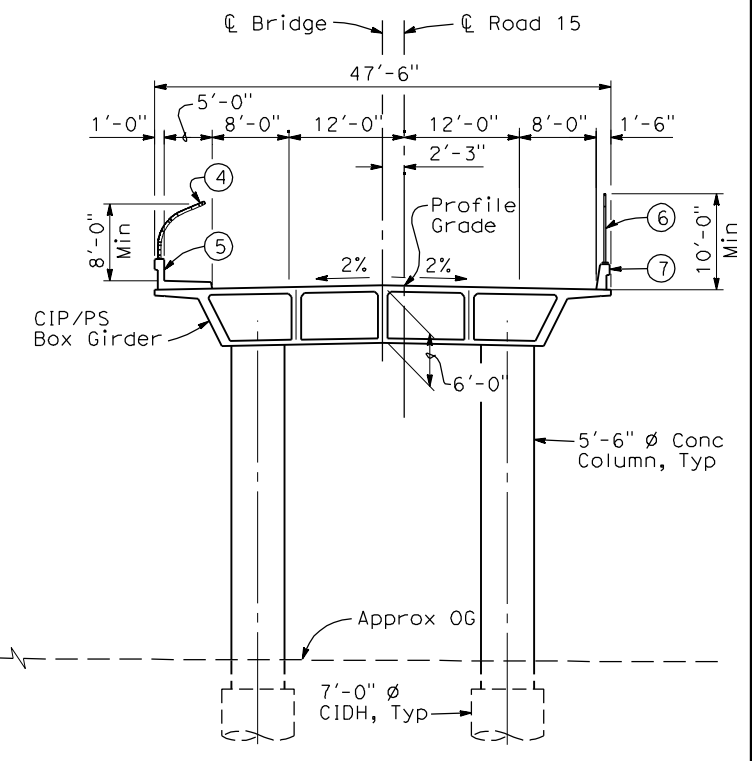
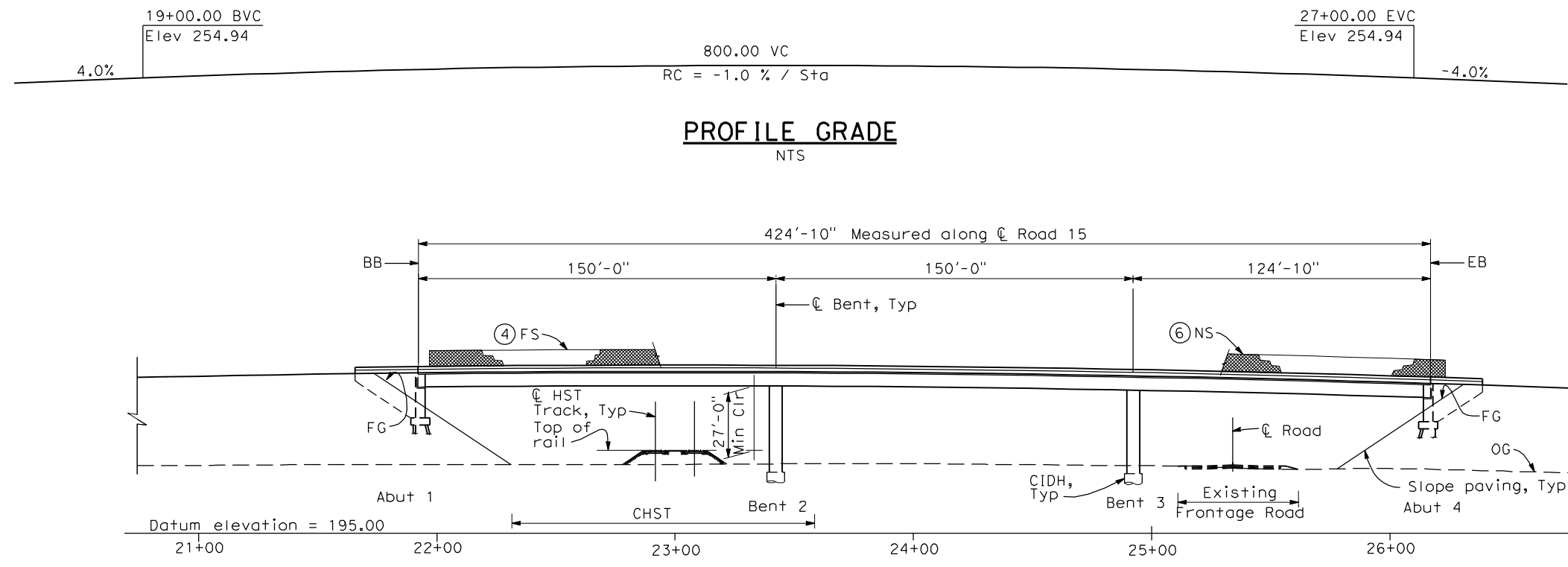
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 16 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1042
SCALE As shown
SHEET NO. OF

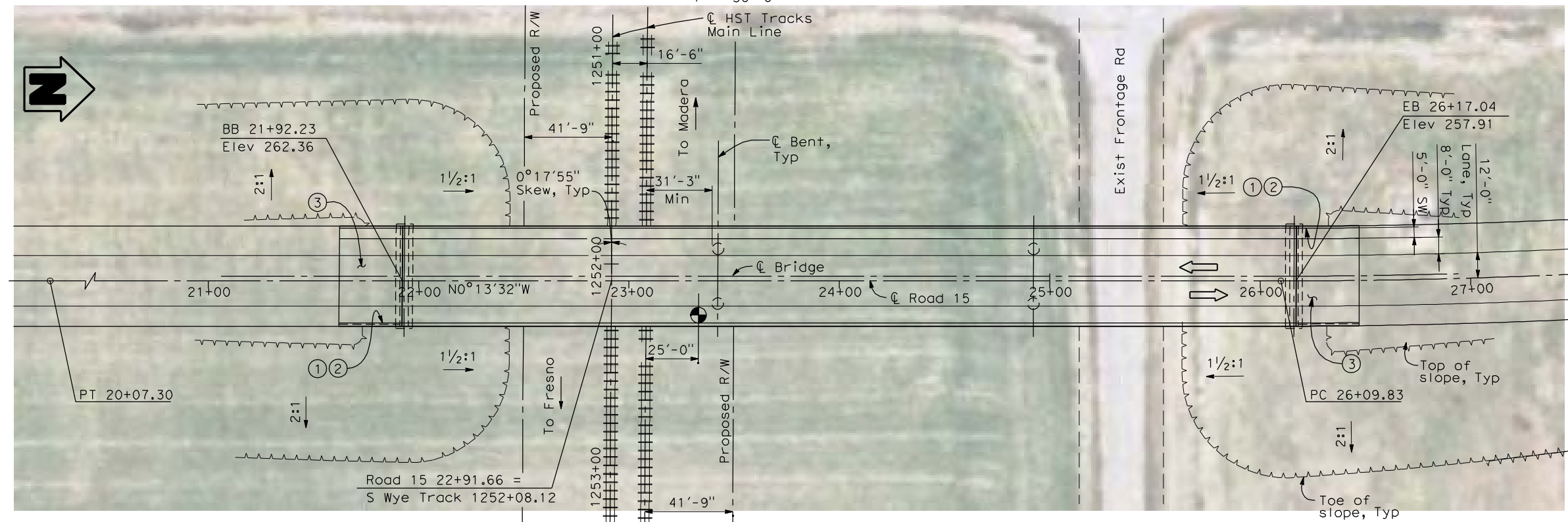
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PROFILE GRADE
NTS

TYPICAL SECTION
1" = 10'-0"

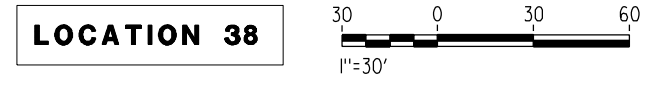
ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"

- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 15 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance
- DATE OF ESTIMATE _____
- BRIDGE REMOVAL = _____
- STRUCTURE DEPTH = 6'-0"
- LENGTH = 424'-10"
- WIDTH = 47'-6"
- AREA = 20,180 ft²
- COST/CFE INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____
- TOTAL COST = _____



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 15 OVERHEAD
PLANNING STUDY

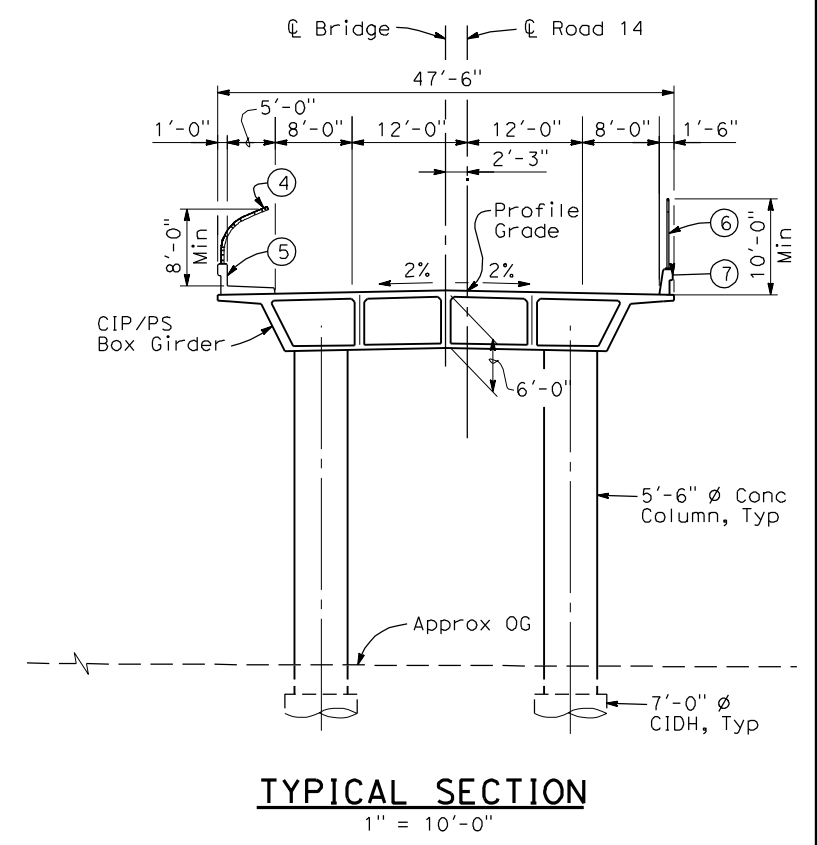
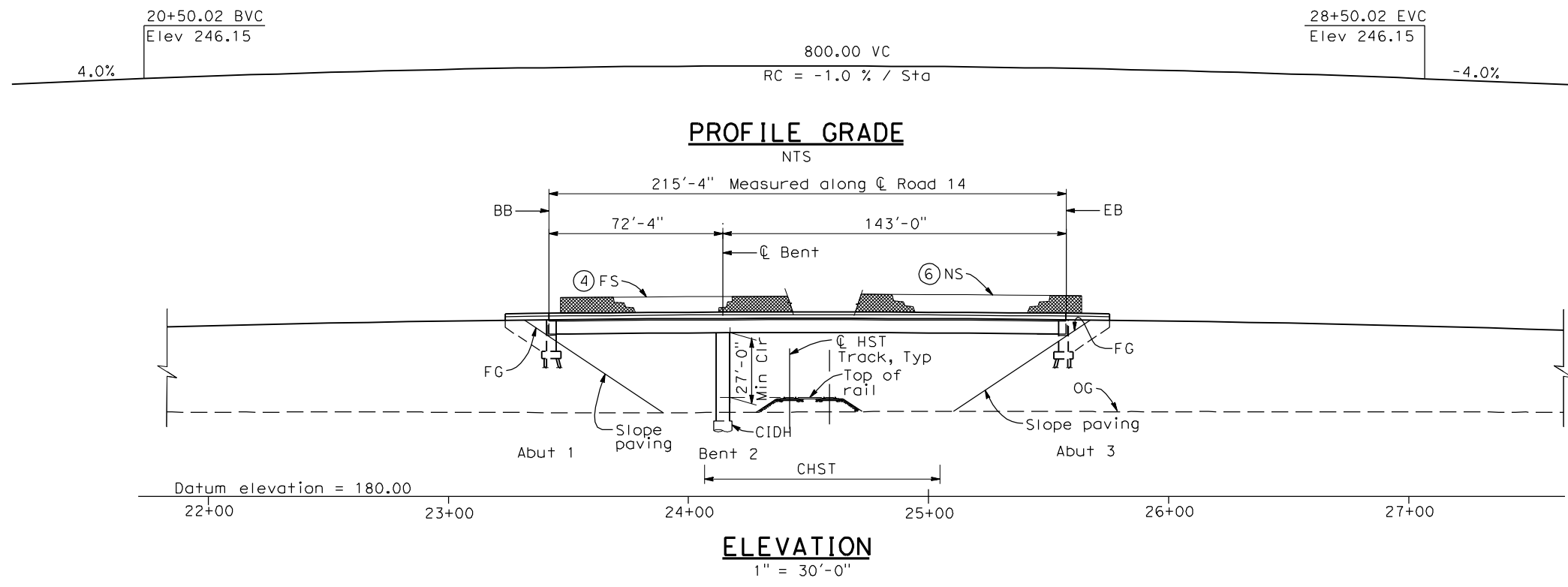
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1043

SCALE
As shown

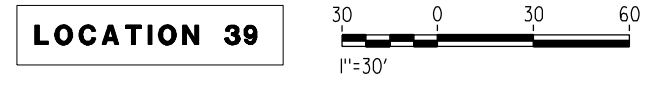
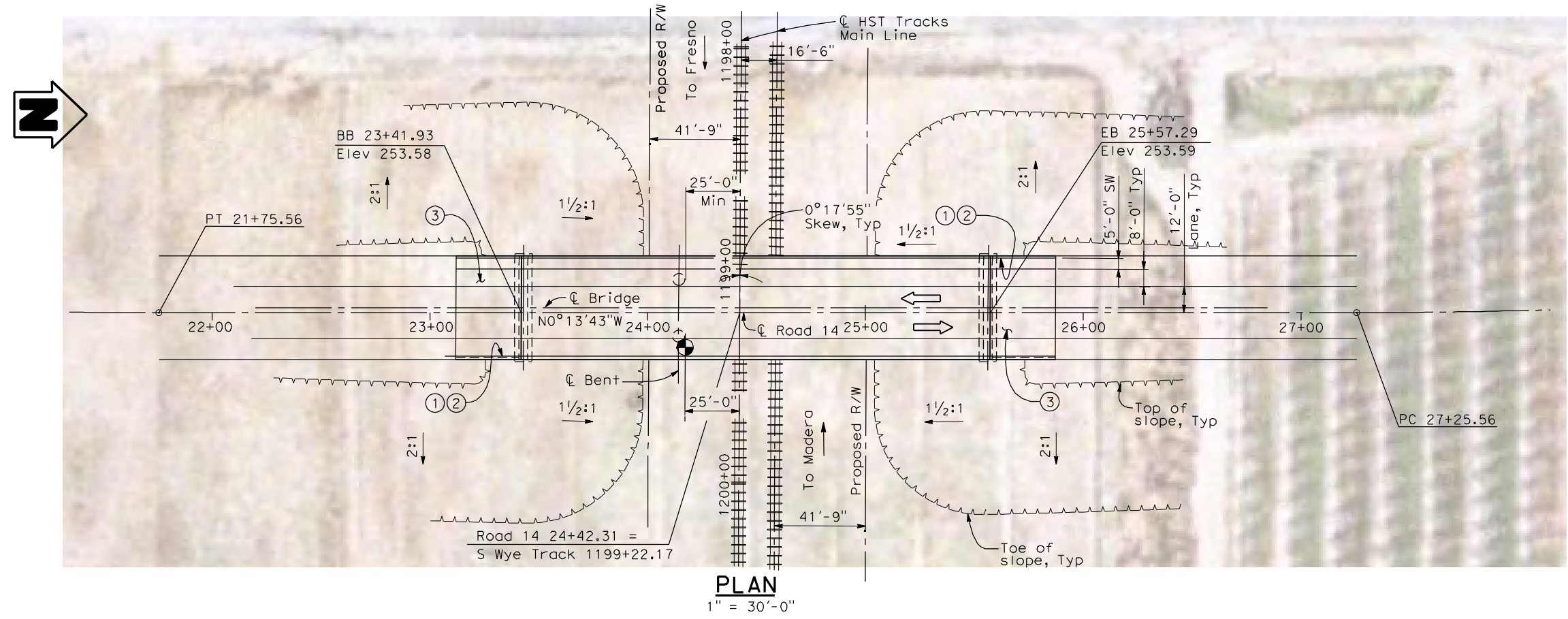
SHEET NO.
OF

5/1/2011 6:20:09 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\A1-24ML_W-MF-ST-OH_Rd_14.dgn



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 14 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance
- DATE OF ESTIMATE** _____
- BRIDGE REMOVAL** = _____
- STRUCTURE DEPTH** = 6'-0"
- LENGTH** = 215'-4"
- WIDTH** = 47'-6"
- AREA** = 10,230 ft²
- COST/CFE INCLUDING 10% MOBILIZATION & 25% CONTINGENCY** = _____
- TOTAL COST** = _____



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
E. CISNEROS

CHECKED BY
K. LEE

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 14 OVERHEAD
PLANNING STUDY

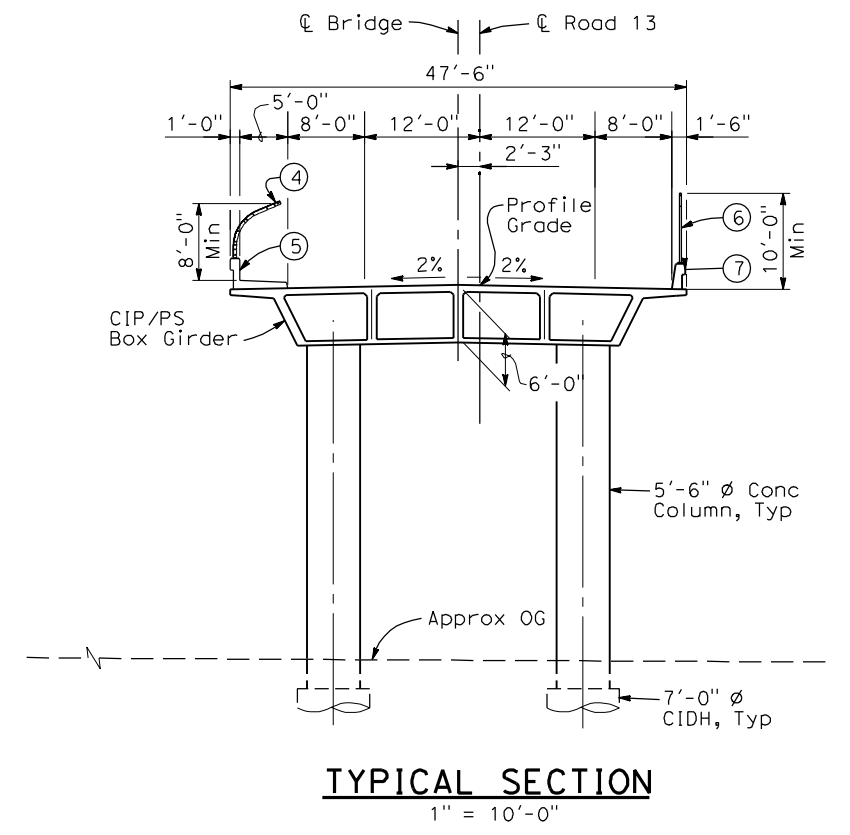
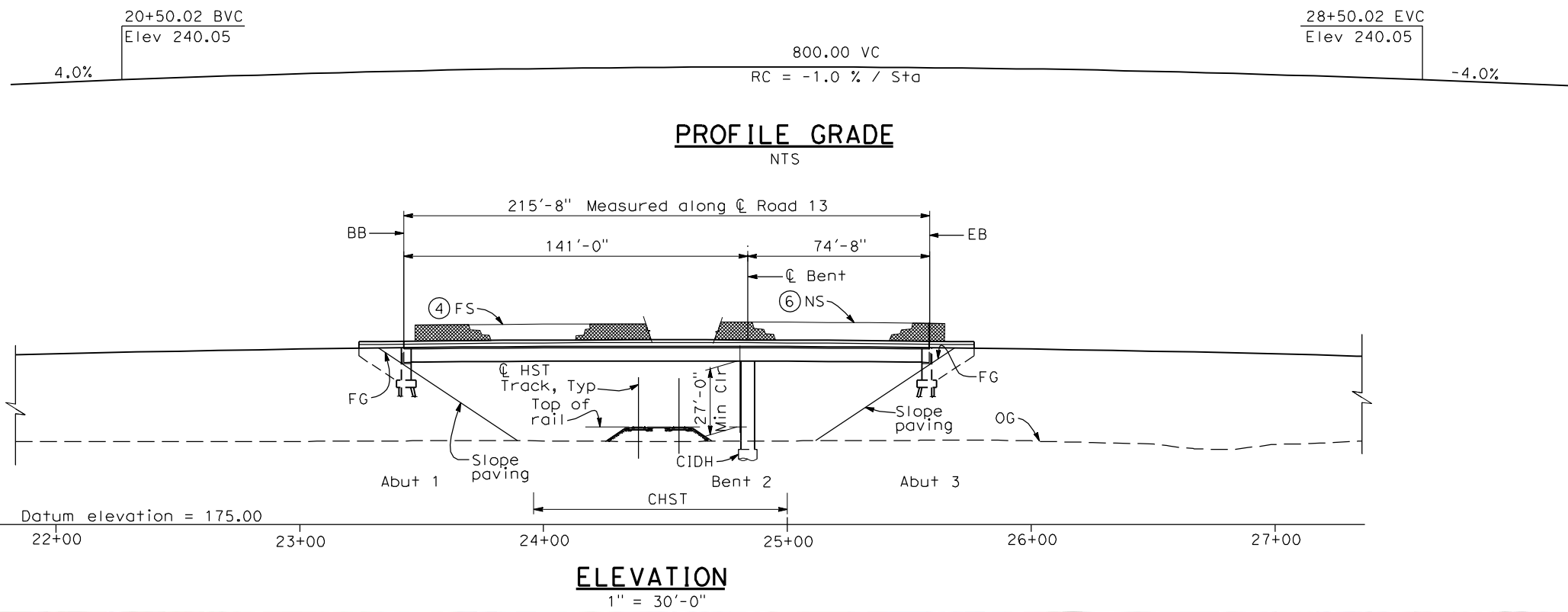
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1044

SCALE
As shown

SHEET NO.
OF

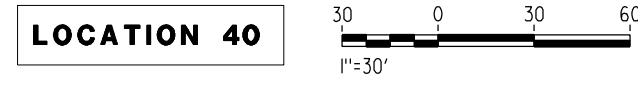
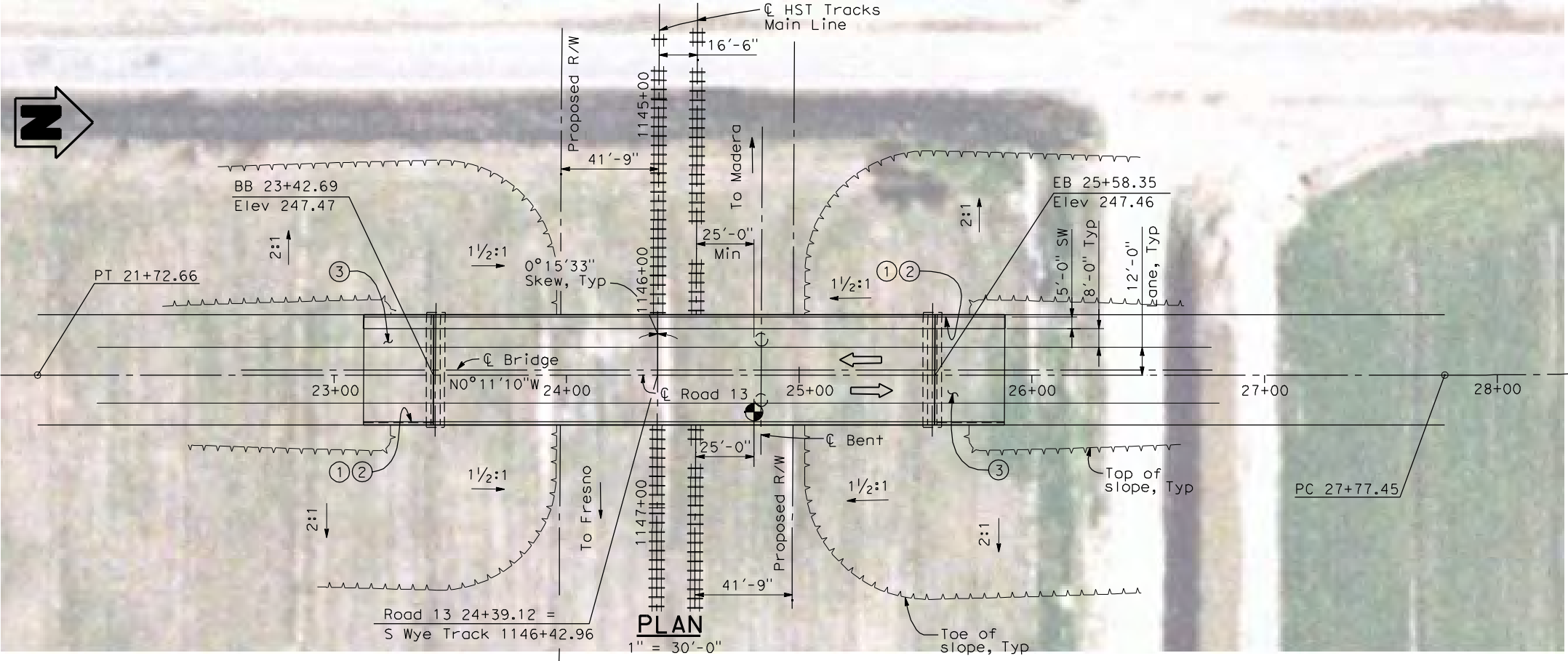
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- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 13 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 215'-8"
WIDTH	= 47'-6"
AREA	= 10,240 ft ²
COST/□FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
K. LEE
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

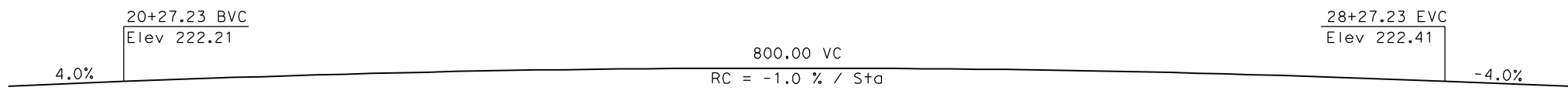


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

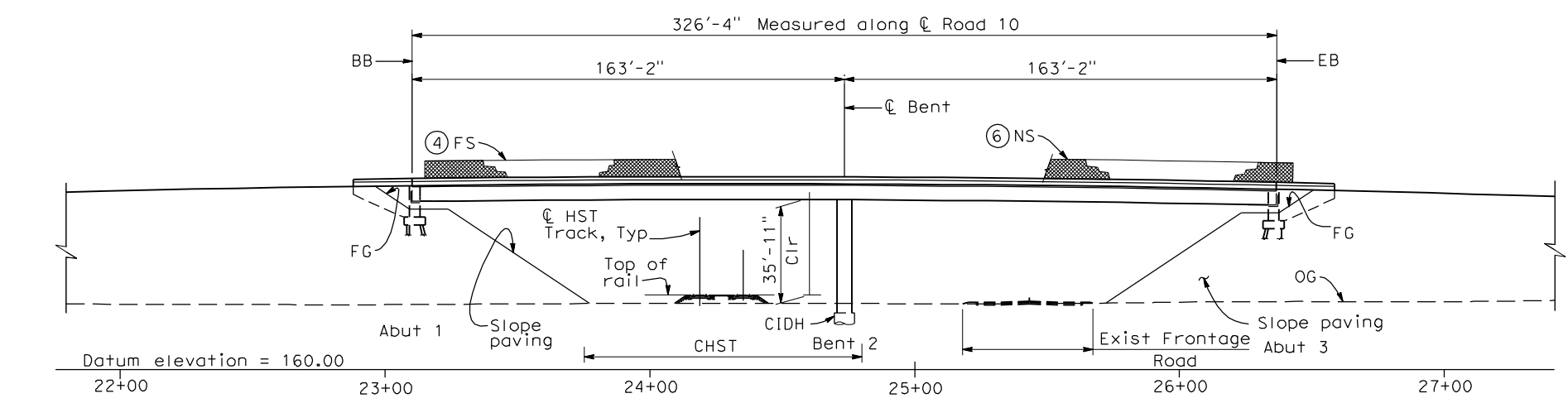
BNSF MAIN LINE
AVENUE 24
ROAD 13 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1045
SCALE	As shown
SHEET NO.	OF

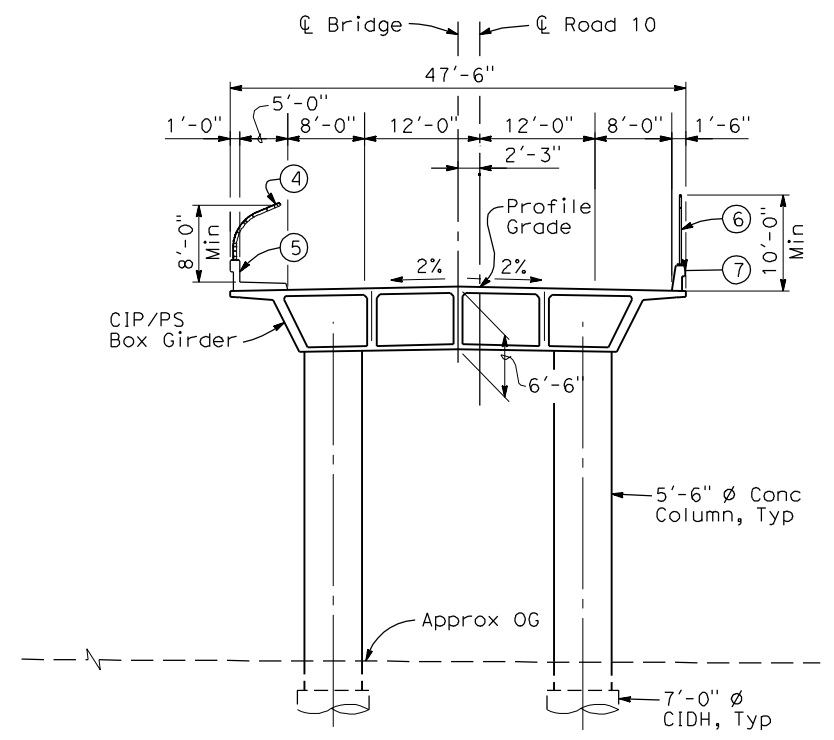
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PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"

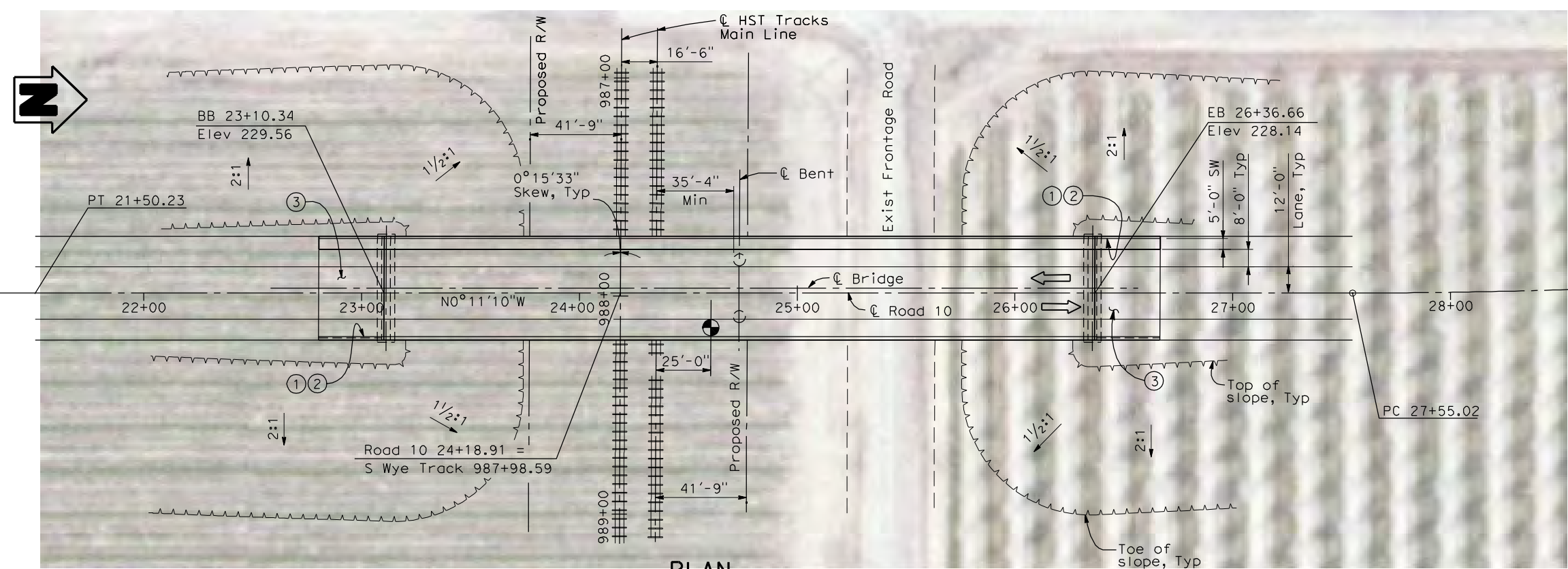


TYPICAL SECTION
1" = 10'-0"

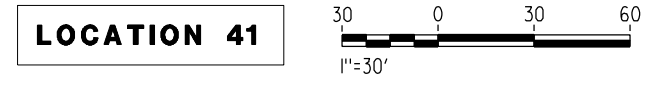
- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 10 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 6'-6"
LENGTH	= 326'-4"
WIDTH	= 47'-6"
AREA	= 15,500 ft ²
COST/□FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____



PLAN
1" = 30'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
K. LEE
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

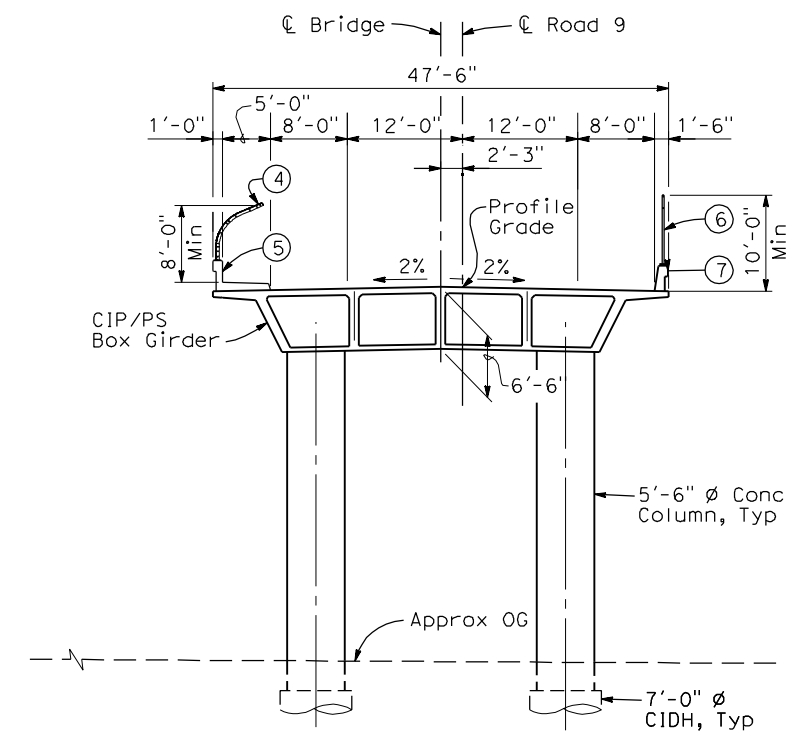
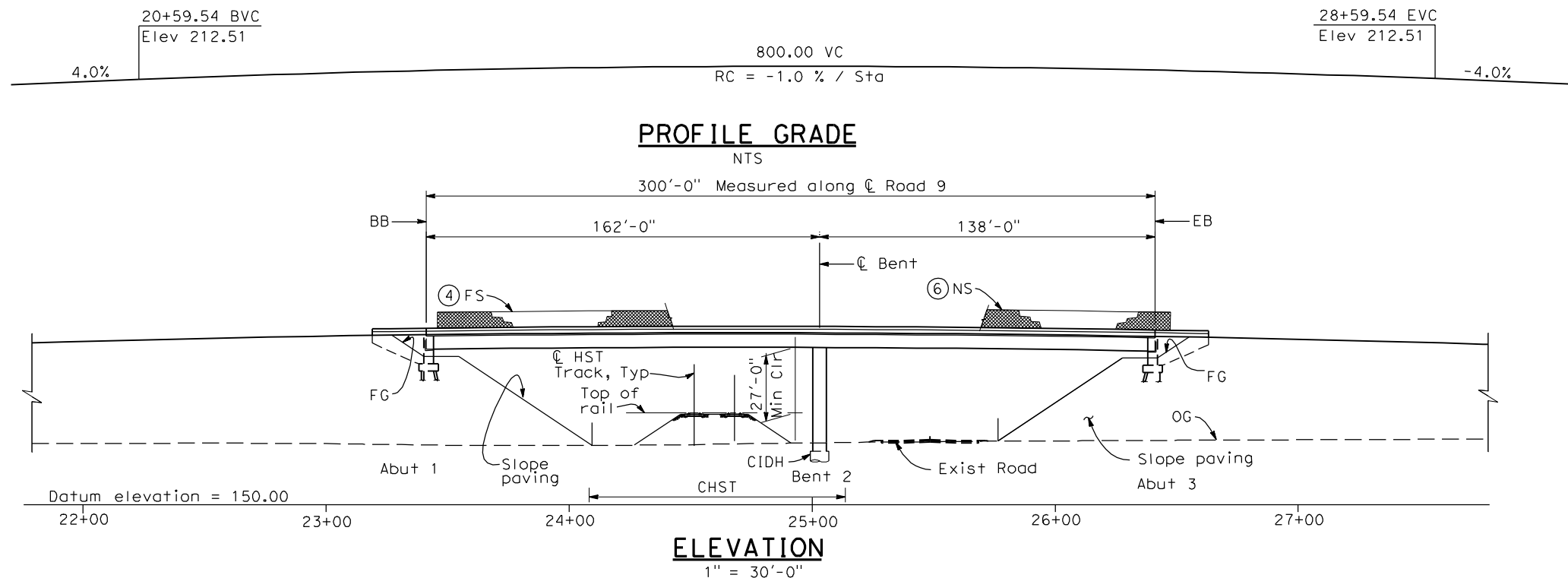
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 10 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1046
SCALE	As shown
SHEET NO.	OF

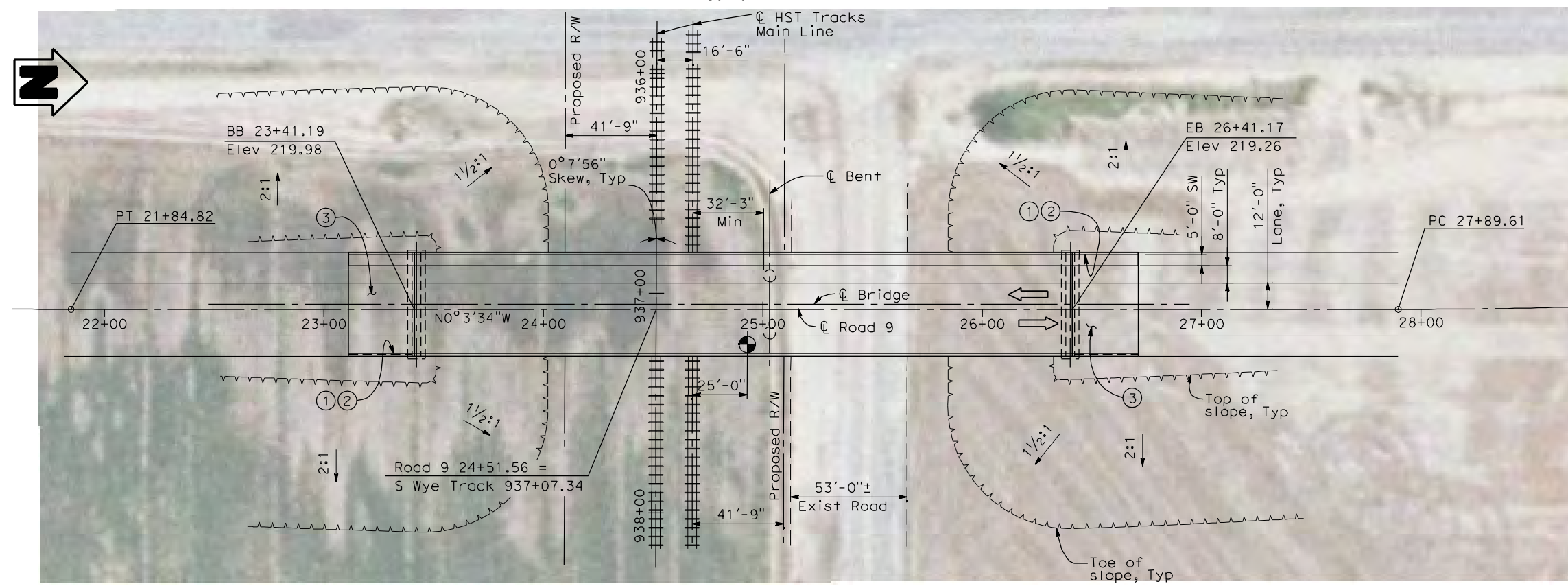
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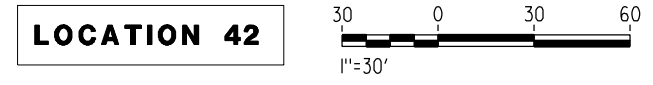
TYPICAL SECTION
1" = 10'-0"

- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 9 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance
- DATE OF ESTIMATE _____
 BRIDGE REMOVAL = _____
 STRUCTURE DEPTH = 6'-6"
 LENGTH = 300'-0"
 WIDTH = 47'-6"
 AREA = 14,250 ft²
 COST/□FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____
 TOTAL COST = _____



PLAN
1" = 30'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
 DRAWN BY
E. CISNEROS
 CHECKED BY
K. LEE
 IN CHARGE
A. BOONE
 DATE
04/29/2011

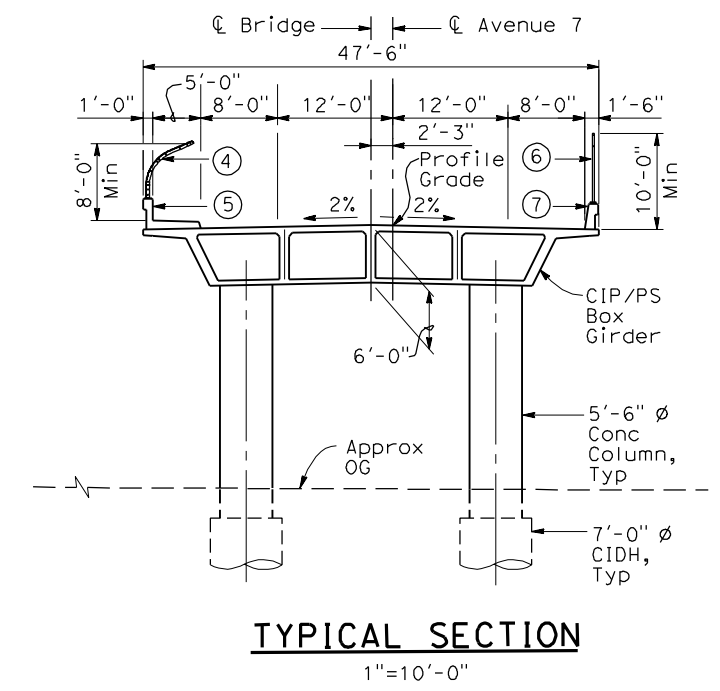
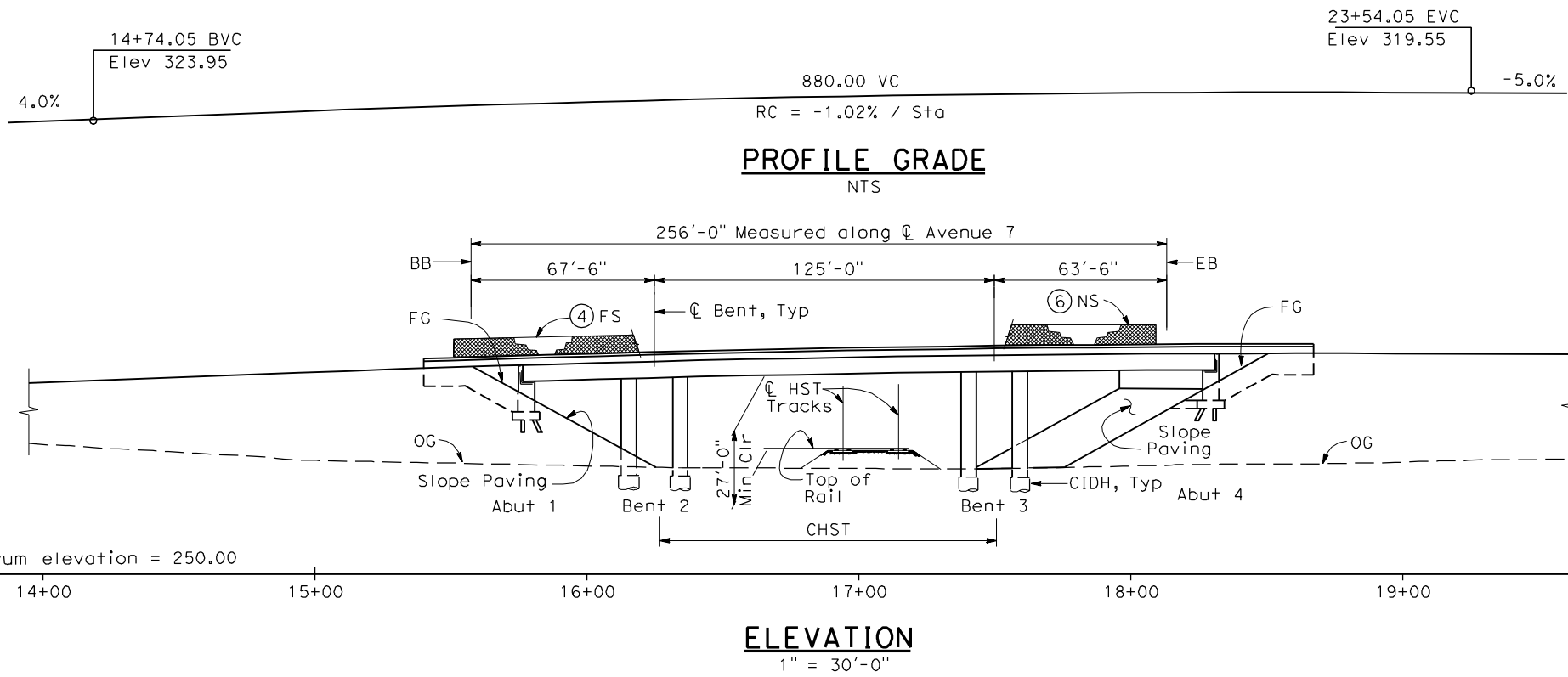
RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE
 AVENUE 24
 ROAD 9 OVERHEAD
 PLANNING STUDY

CONTRACT NO.
HSR06-007
 DRAWING NO.
ST1047
 SCALE
As shown
 SHEET NO.
OF



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Avenue 7 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 - Bearing of Avenue 7 to be determined.
 - Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE = _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 6'-0"

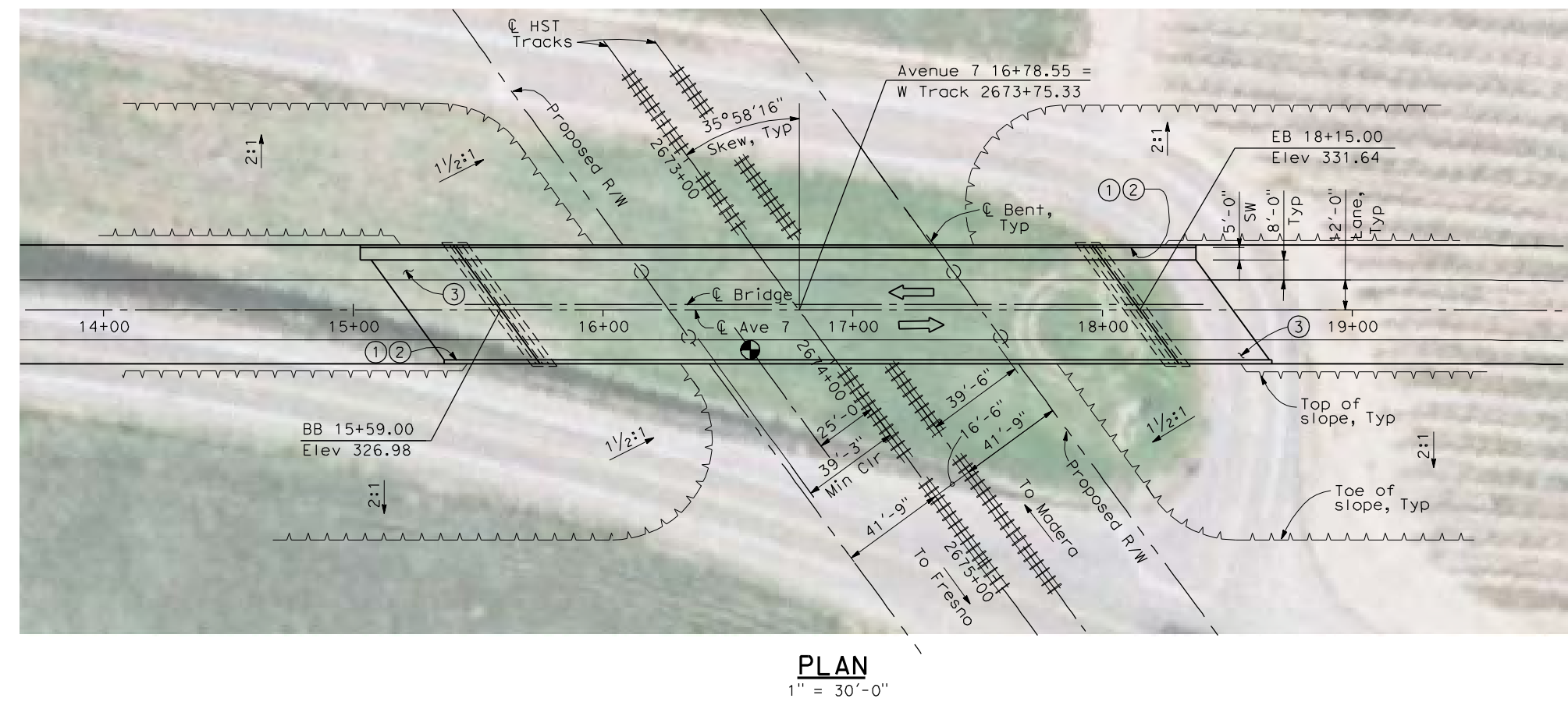
LENGTH = 256'-0"

WIDTH = 47'-6"

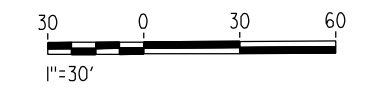
AREA = 12,160 ft²

COST / OFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____



LOCATION 65



4/30/2011 4:29:54 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1070.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. HODELL
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

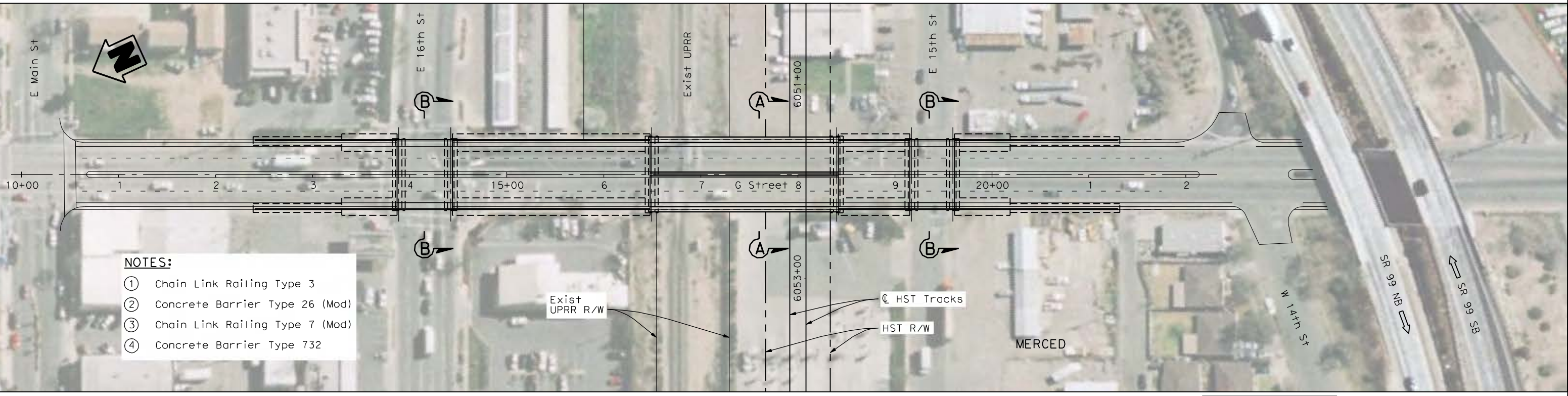
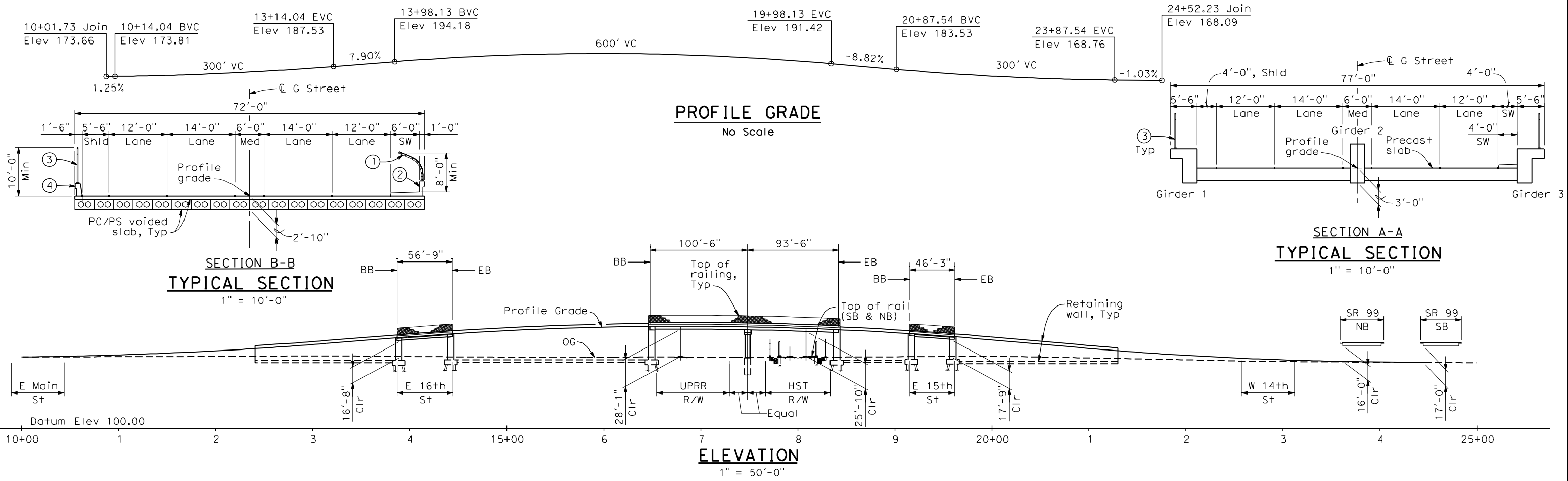
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 7 OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1070
SCALE
AS SHOWN
SHEET NO.
OF

5/1/2011 5:52:19 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\APS\A2\15%_cost_reduction_submittal\Grade_Structure\W-MF-ST-OH_G_Street-Loc64.dgn



- NOTES:**
- ① Chain Link Railing Type 3
 - ② Concrete Barrier Type 26 (Mod)
 - ③ Chain Link Railing Type 7 (Mod)
 - ④ Concrete Barrier Type 732

PLAN
1" = 50'-0"

PRELIMINARY
NOT FOR CONSTRUCTION

LOCATION 64



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
B. DOLAN
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

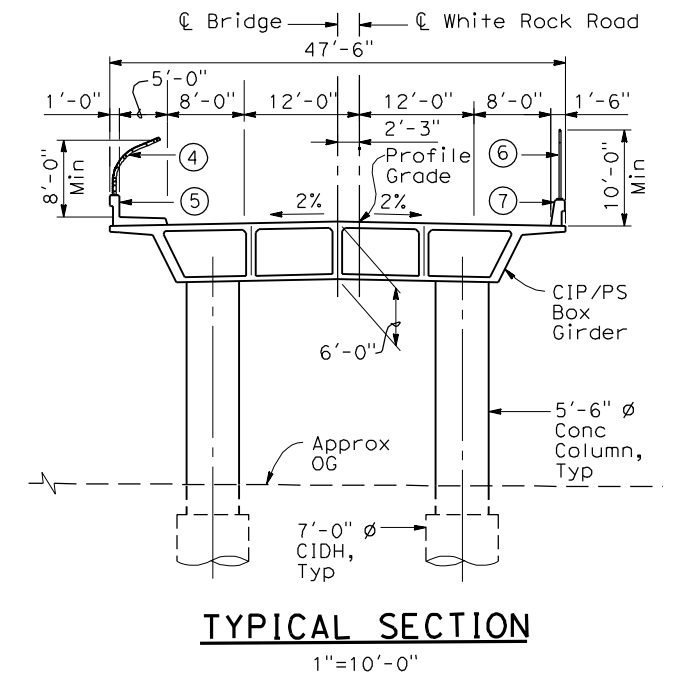
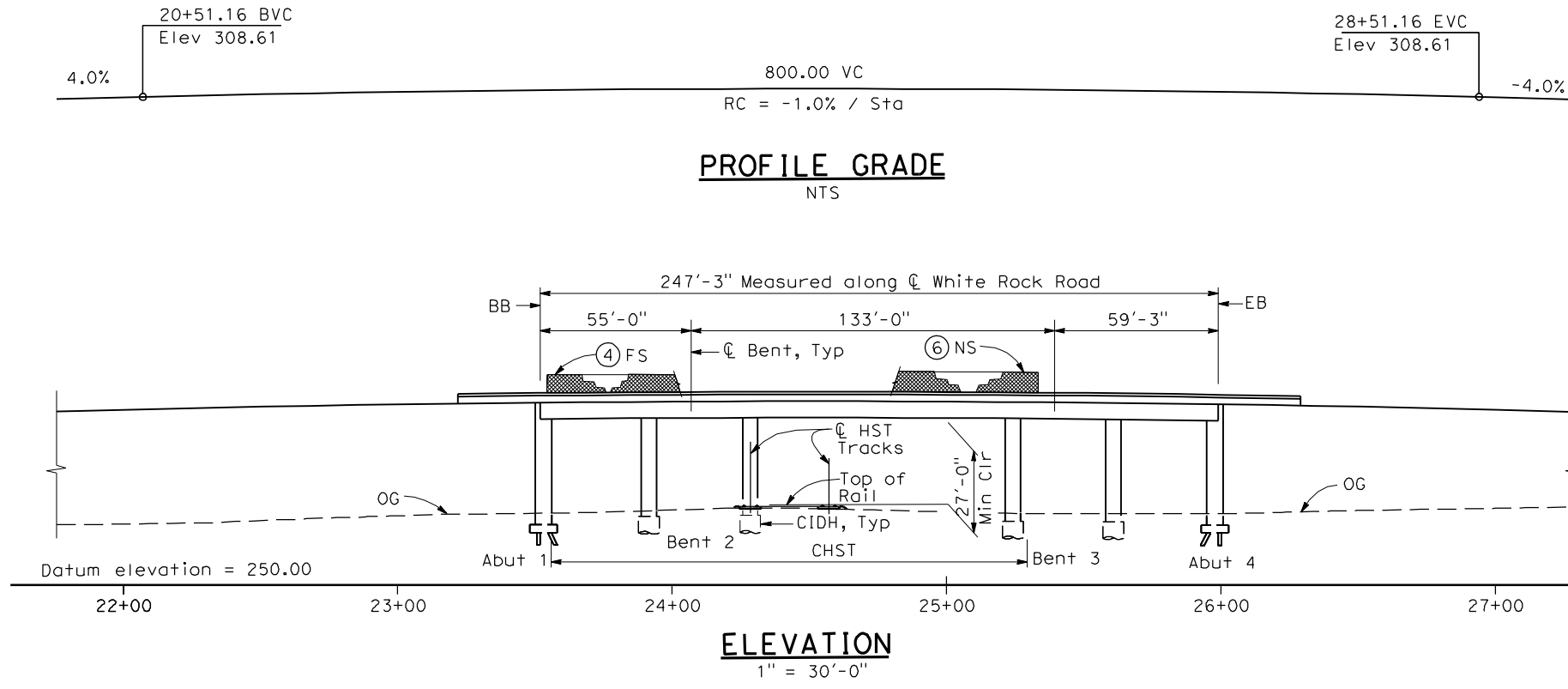
RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
G STREET OVERHEAD
PLANNING STUDY

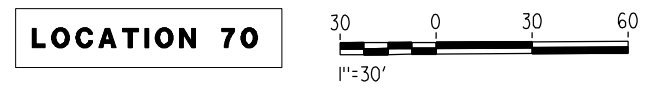
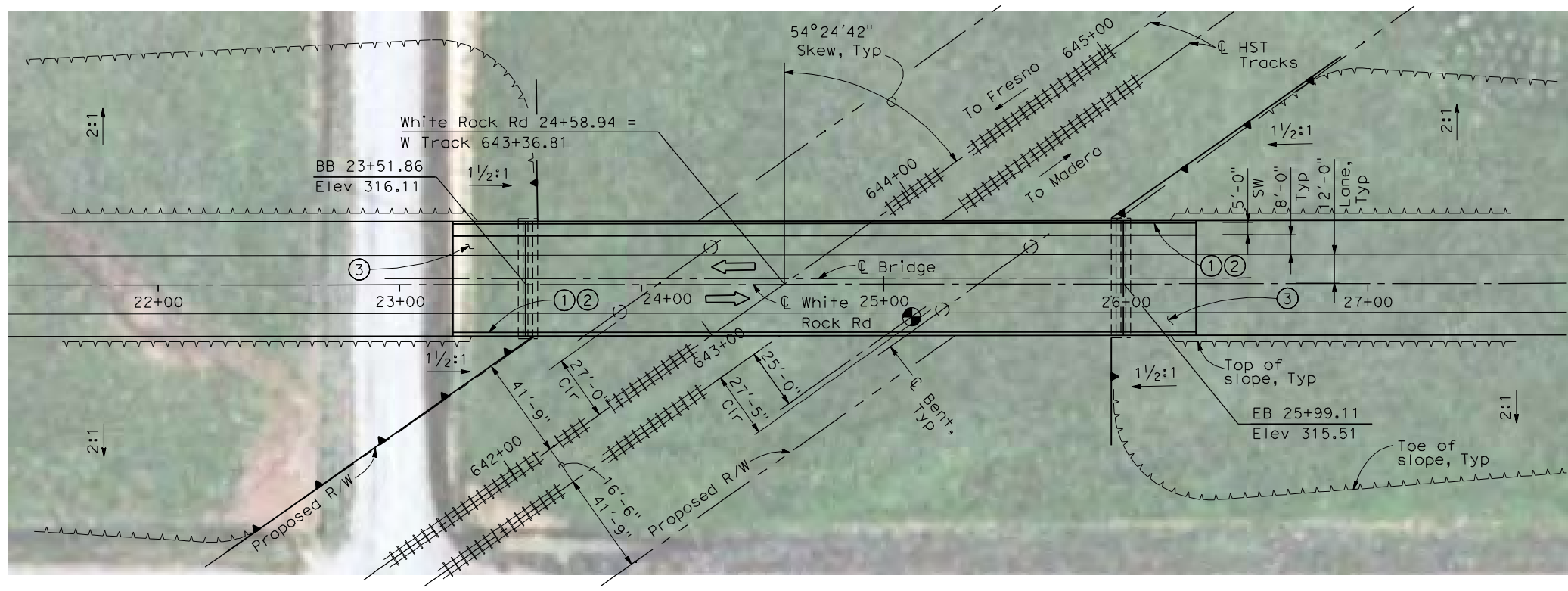
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1180
SCALE
As shown
SHEET NO.
OF



- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "White Rock Road OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Bearing of White Rock Road to be determined.
 - Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance
 - ▬ Retaining wall

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	247'-3"
WIDTH	=	47'-6"
AREA	=	11,740 ft ²
COST/DFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



4/30/2011 4:20:30 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\Oakland\W-MF-ST1050.dgn

DESIGNED BY	H. LEE
DRAWN BY	J. HODELL
CHECKED BY	L. LEUNG
IN CHARGE	A. BOONE
DATE	04/29/2011

REV	DATE	BY	CHK	APP	DESCRIPTION

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

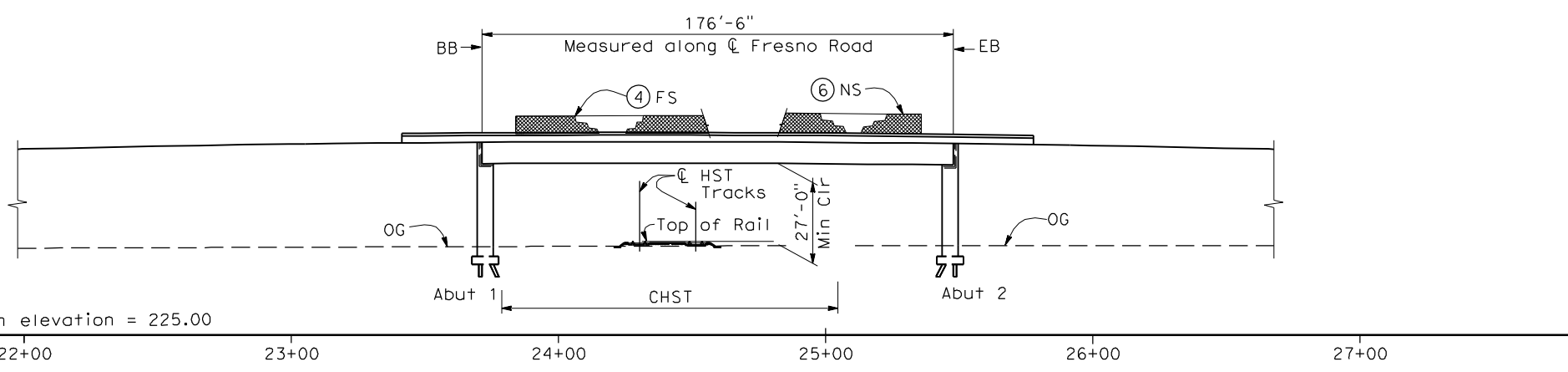
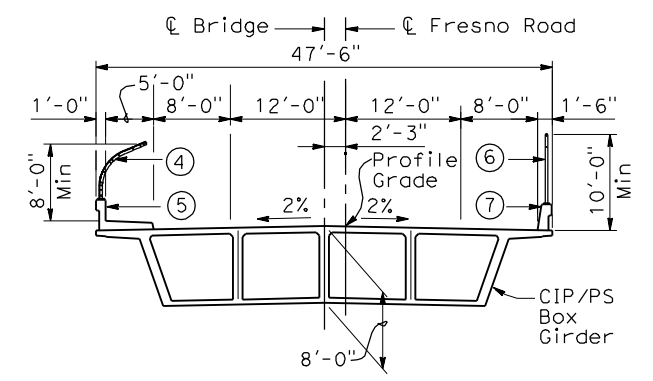
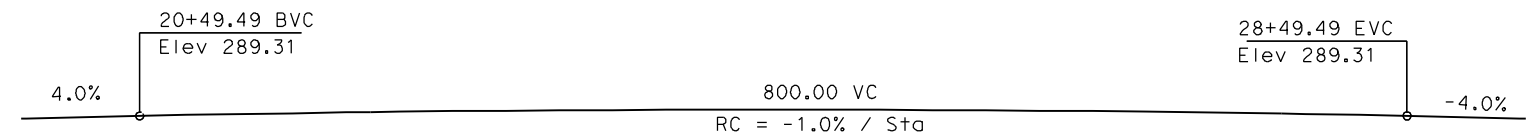
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 1)
AVENUE 21/AVENUE 24
WHITE ROCK ROAD OVERHEAD
PLANNING STUDY

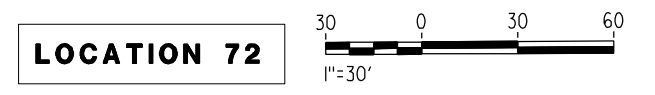
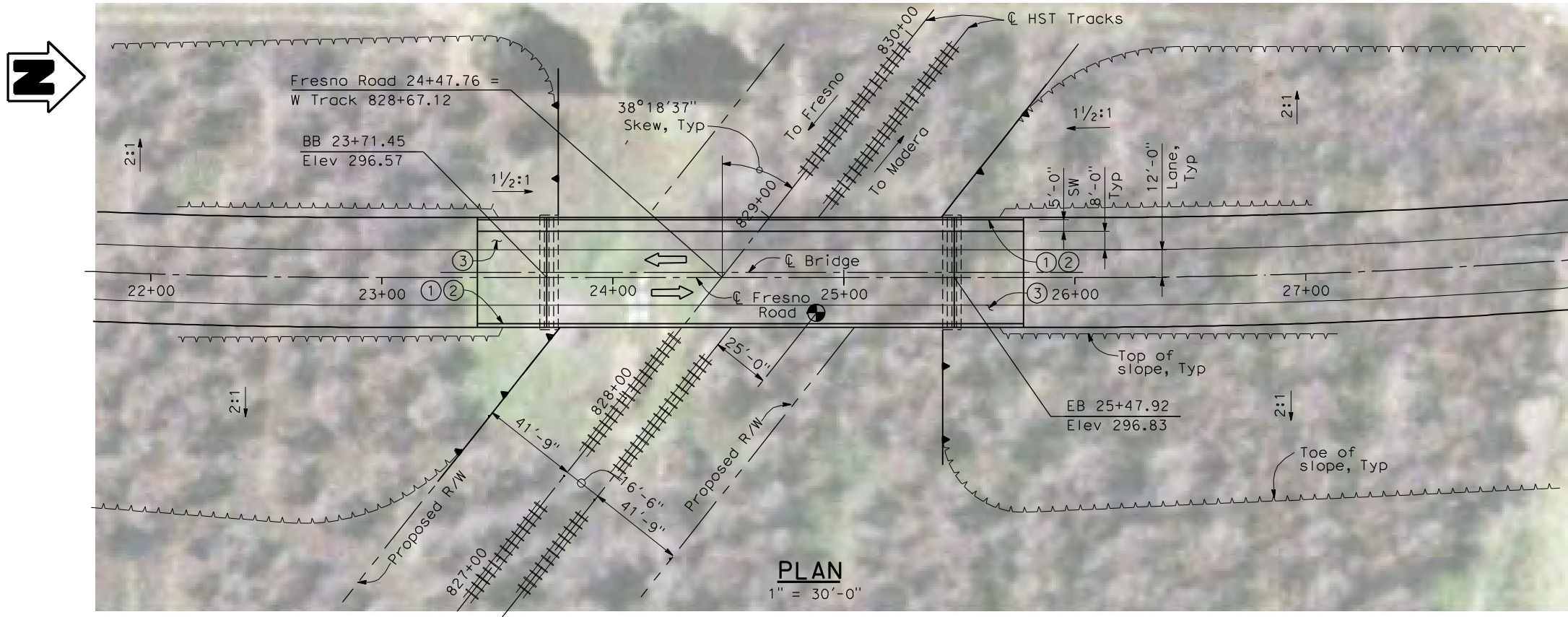
CONTRACT NO.	HSR06-007
DRAWING NO.	ST1050
SCALE	AS SHOWN
SHEET NO.	OF



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Fresno Road OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Bearing of Fresno Road to be determined.
 9. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance
 - ▲ Retaining wall

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	8'-0"
LENGTH	=	176'-6"
WIDTH	=	47'-6"
AREA	=	8,380 ft ²
COST/ØFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____



4/30/2011 4:21:33 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\MPS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\MF-ST1052.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. HODELL
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

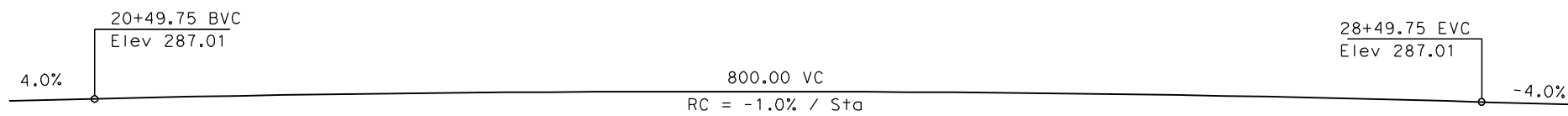
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

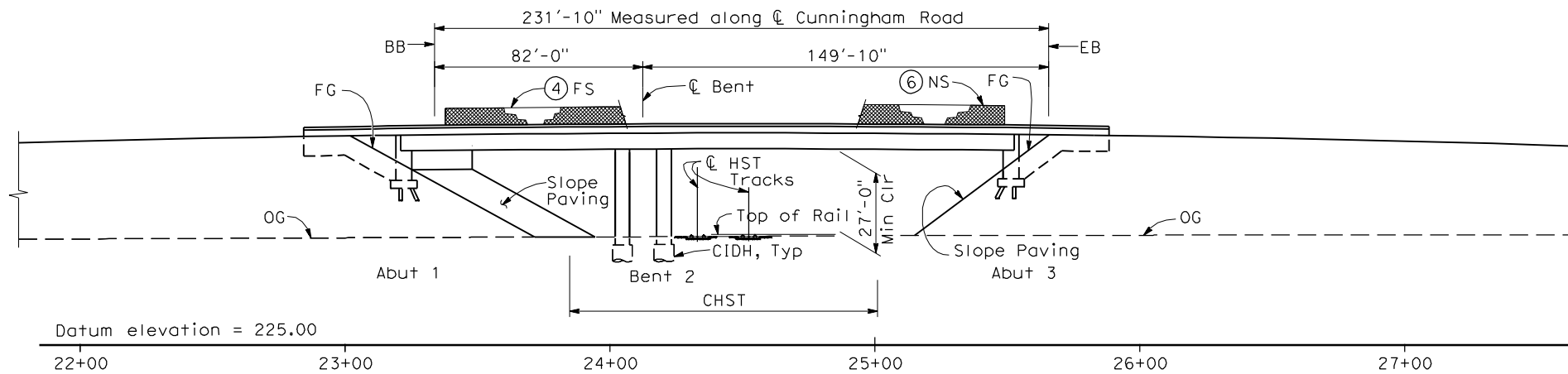


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 1)
AVENUE 21/AVENUE 24
FRESNO ROAD OVERHEAD
PLANNING STUDY

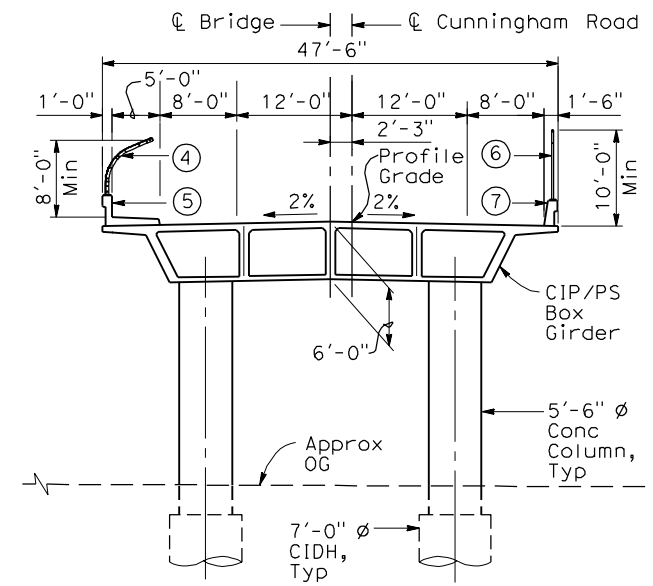
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1052
SCALE
AS SHOWN
SHEET NO.
OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

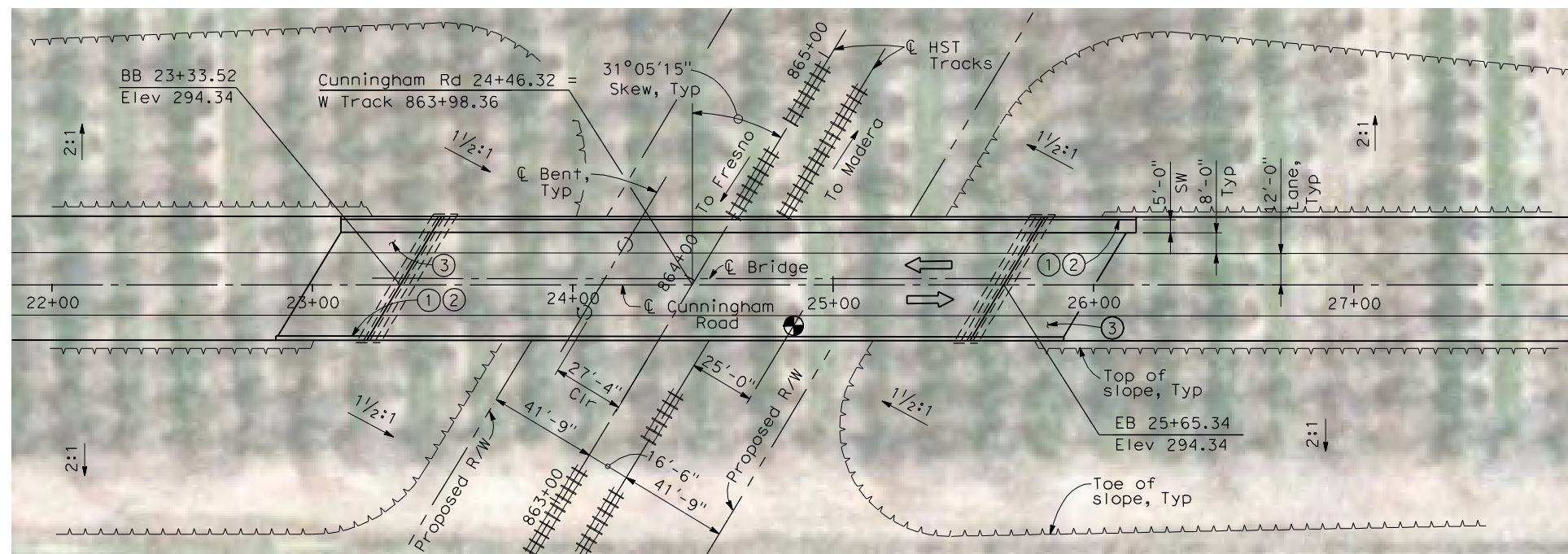
NOTES:

- ① Paint "Bridge No. XX-XX"
- ② Paint "Cunningham Road OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Bearing of Cunningham Road to be determined.
9. Existing underground and overhead utilities to be determined.

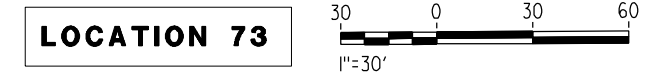
LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 231'-10"
WIDTH	= 47'-6"
AREA	= 11,010 ft ²
COST/ØFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____



PLAN
1" = 30'-0"



4/30/2011 4:21:59 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\Oakland\W-MF-ST1053.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. HODELL
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

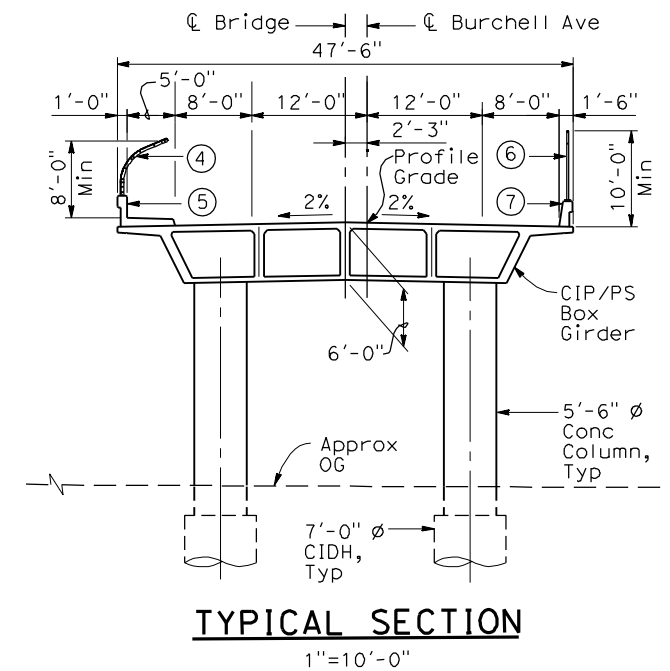
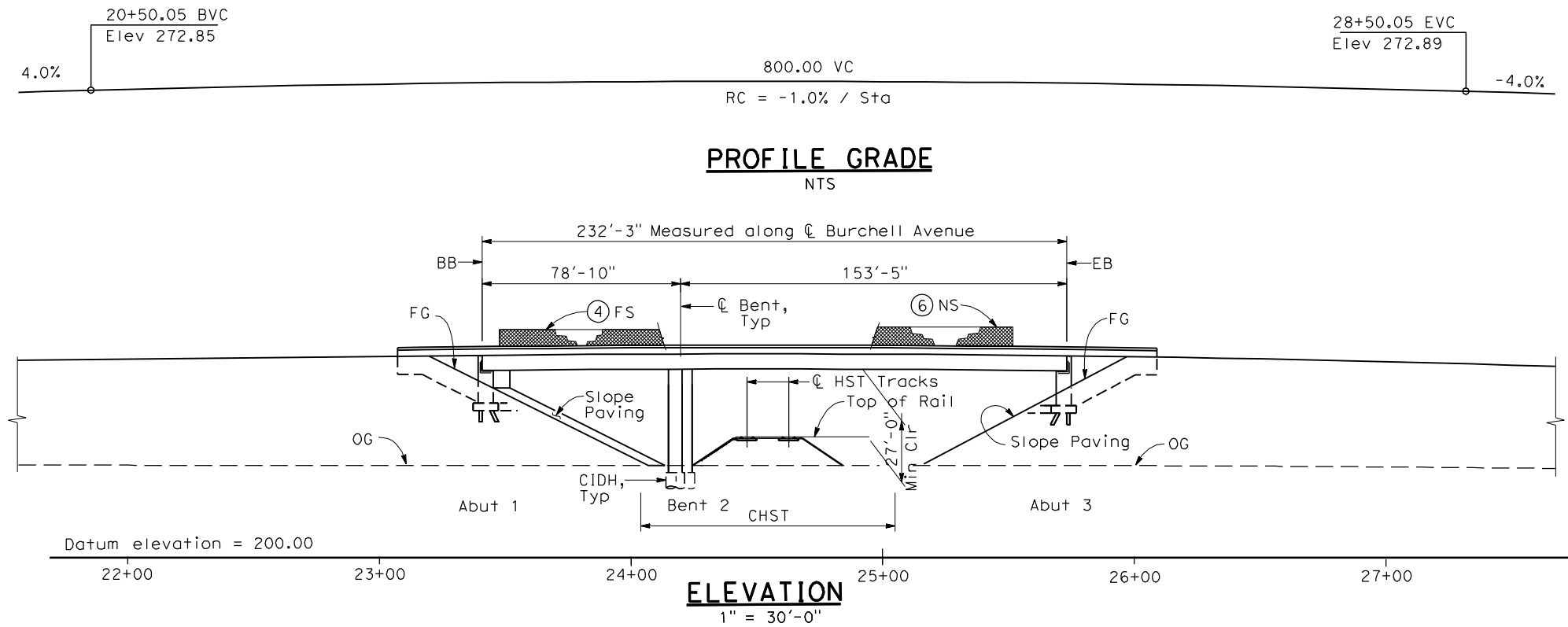
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 1)
AVENUE 21/AVENUE 24
CUNNINGHAM ROAD OVERHEAD
PLANNING STUDY

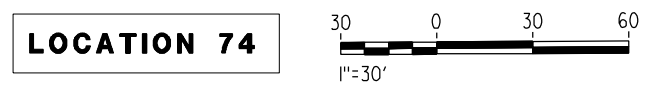
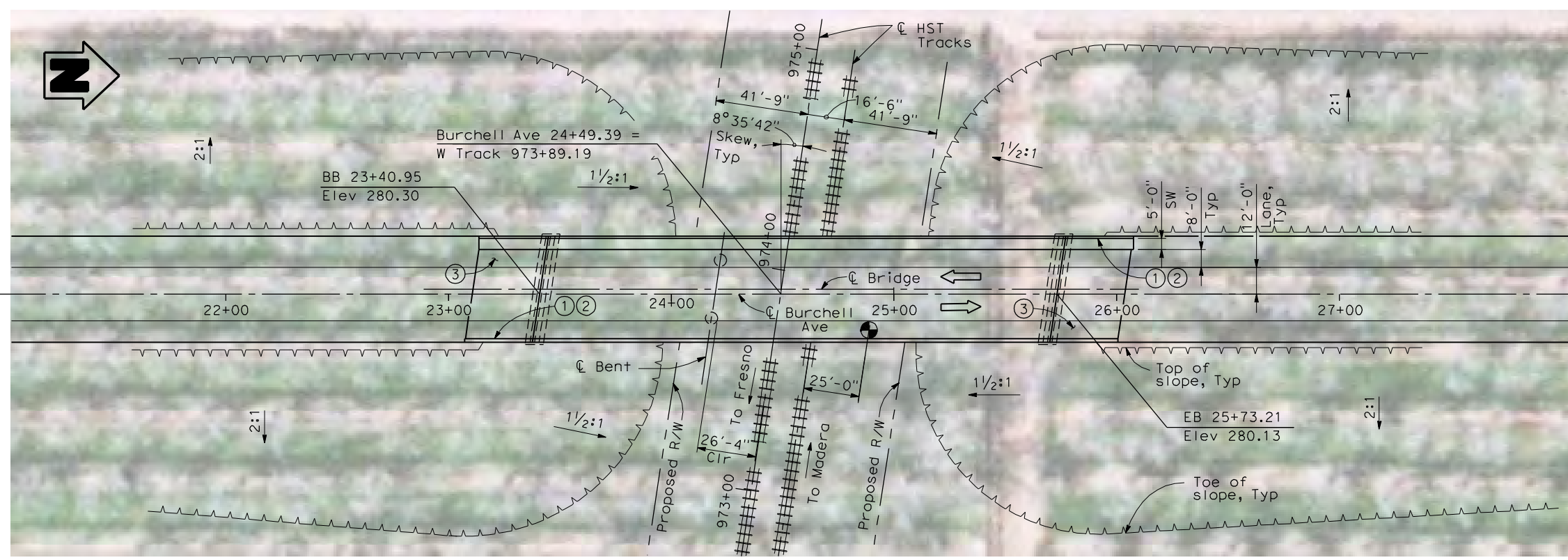
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1053
SCALE
AS SHOWN
SHEET NO.
OF



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Burchell Avenue 0H"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Bearing of Burchell Avenue to be determined.
 9. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	232'-3"
WIDTH	=	47'-6"
AREA	=	11,030 ft ²
COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



4/30/2011 4:22:30 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1054.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. HODELL
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

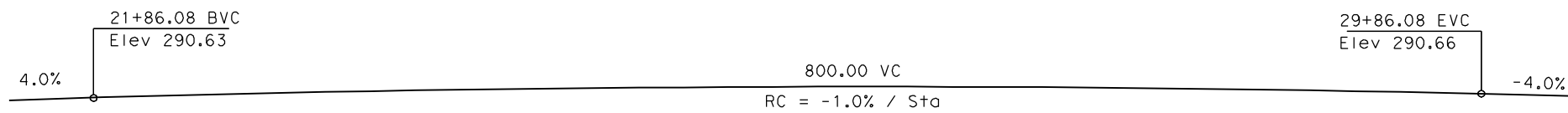
**NOT FOR
CONSTRUCTION**



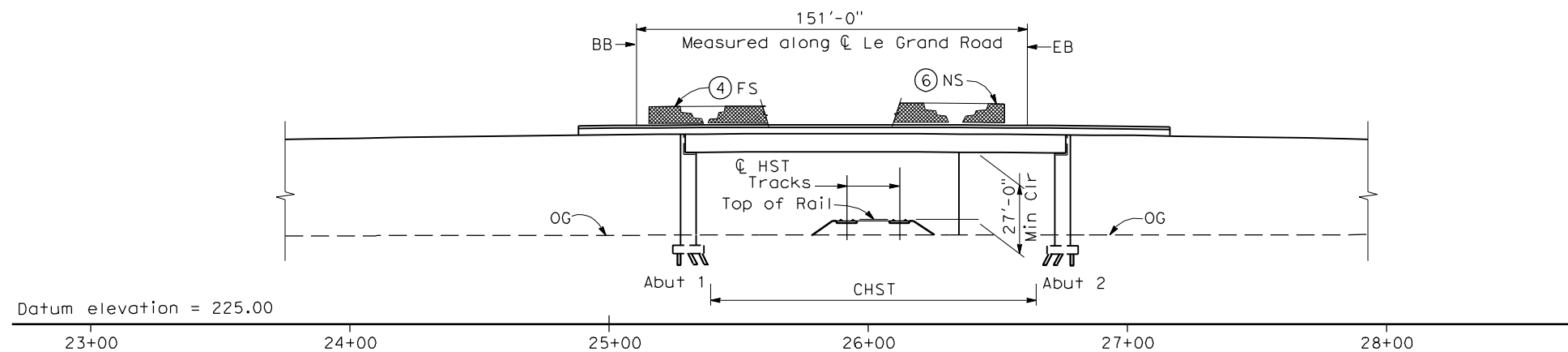
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION (ALTERNATIVE 1)
AVENUE 21/AVENUE 24
BURCHELL AVENUE OVERHEAD
PLANNING STUDY

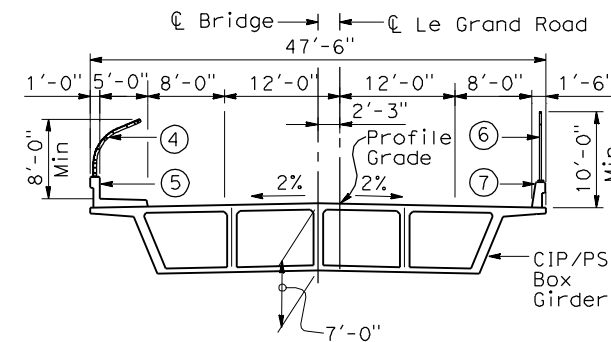
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1054
SCALE
AS SHOWN
SHEET NO.
OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

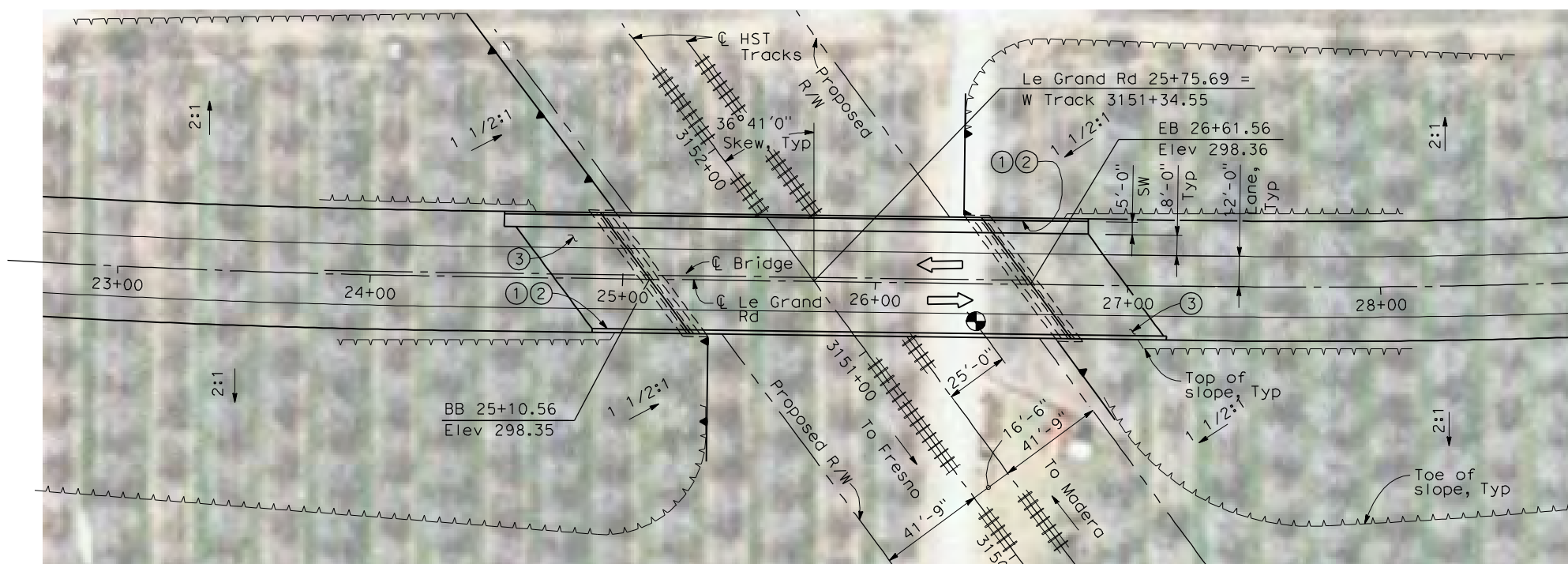
NOTES:

- ① Paint "Bridge No. XX-XX"
- ② Paint "Le Grand Road OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Bearing of Le Grand Road to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

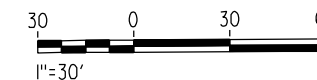
- ← Direction of traffic
- Point of minimum vertical clearance
- ▲ Retaining Wall

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	7'-0"
LENGTH	=	151'-0"
WIDTH	=	47'-6"
AREA	=	7,170 ft ²
COST/ØFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____



PLAN
1" = 30'-0"

LOCATION 75



4/30/2011 4:25:58 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\APSA1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1055.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY J. HODELL
CHECKED BY L. LEUNG
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

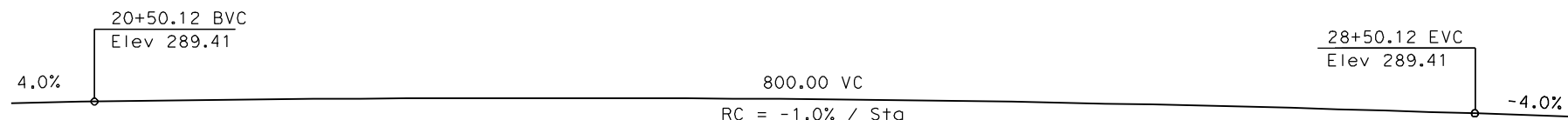
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

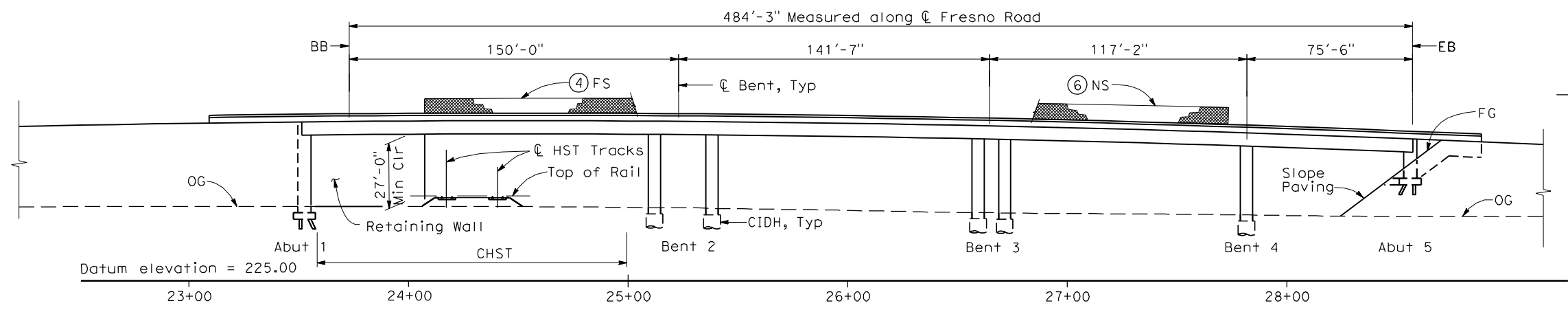
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 2)
AVENUE 21/AVENUE 24
LE GRAND ROAD OVERHEAD
PLANNING STUDY

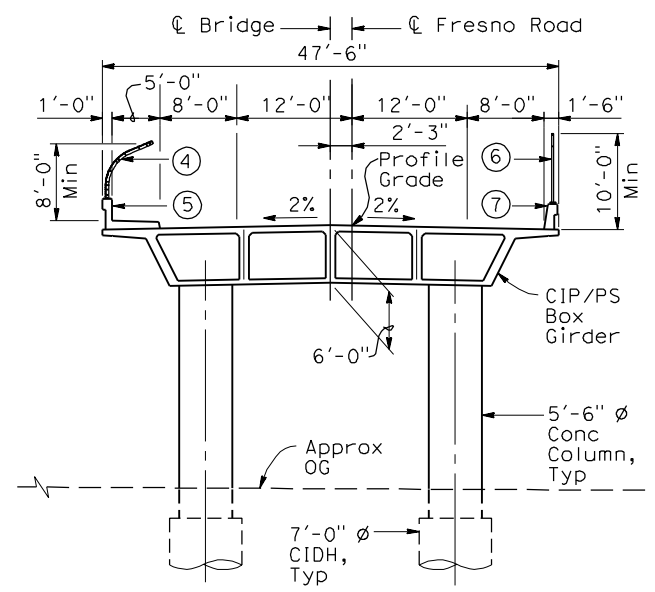
CONTRACT NO. HSR06-007
DRAWING NO. ST1055
SCALE AS SHOWN
SHEET NO. OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"

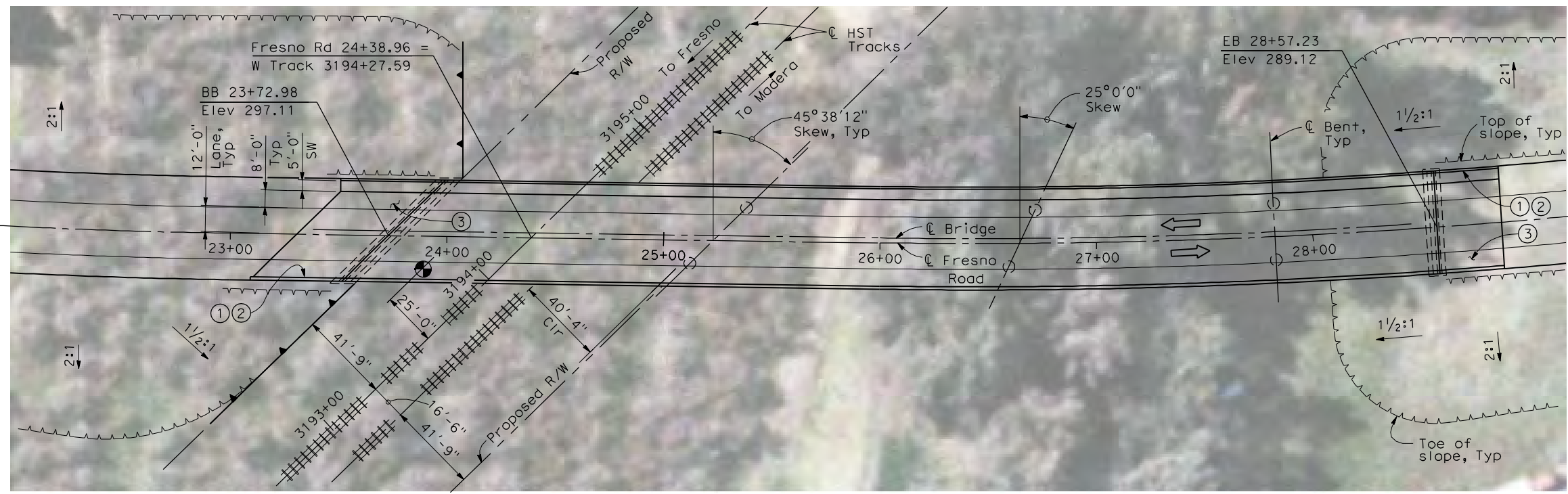


TYPICAL SECTION
1"=10'-0"

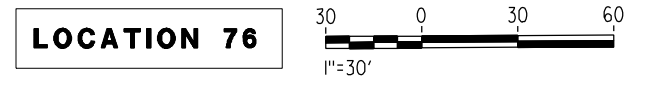
- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Fresno Road OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Bearing of Fresno Road to be determined.
 - Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance
 - ▲ Retaining wall

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 484'-3"
WIDTH	= 47'-6"
AREA	= 23,000 ft ²
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____



PLAN
1" = 30'-0"



4/30/2011 4:26:23 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1056.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. HODELL
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

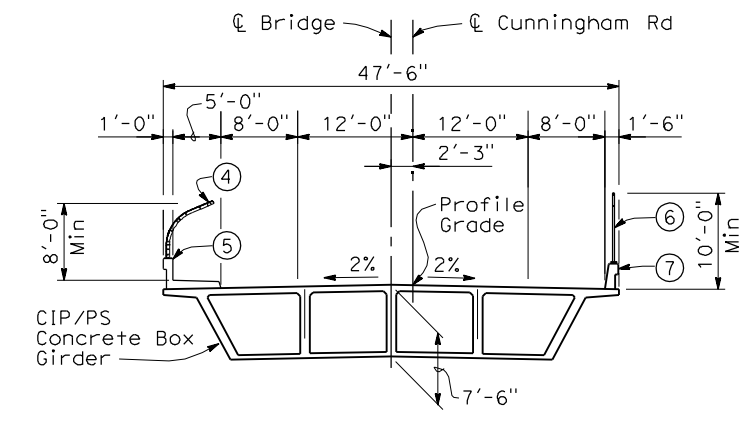
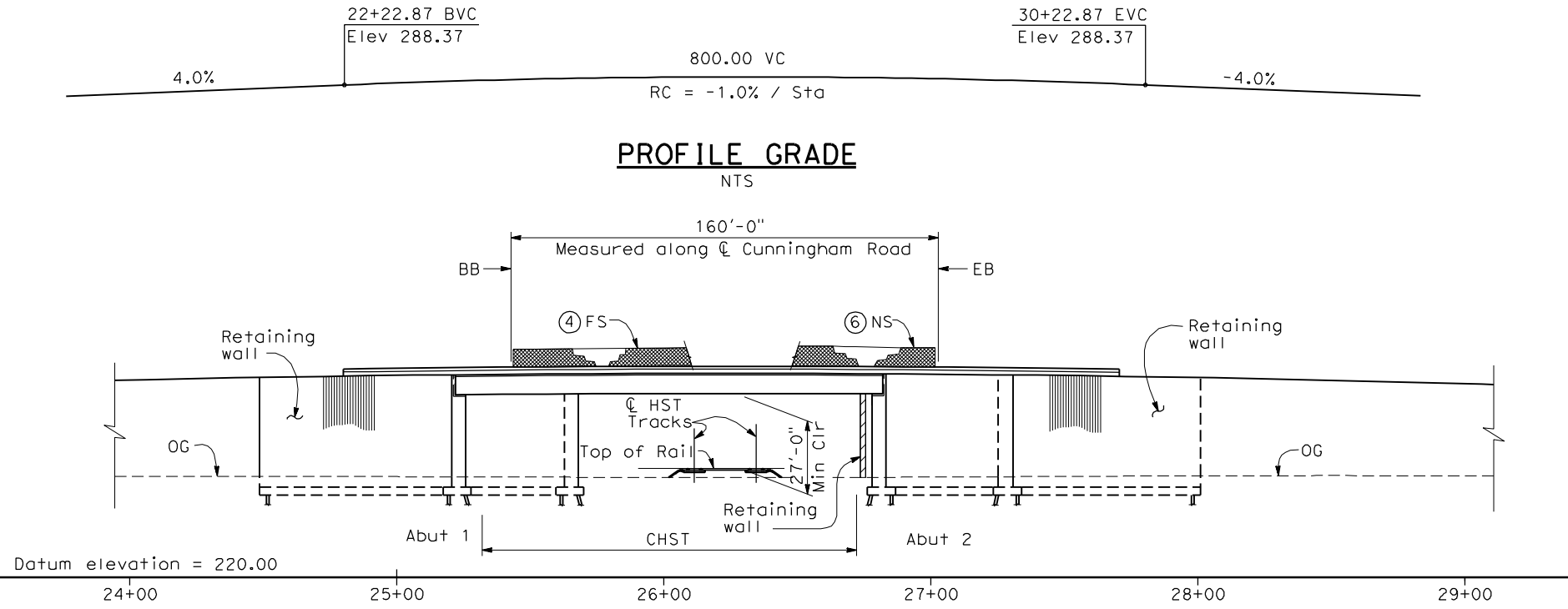
NOT FOR
CONSTRUCTION



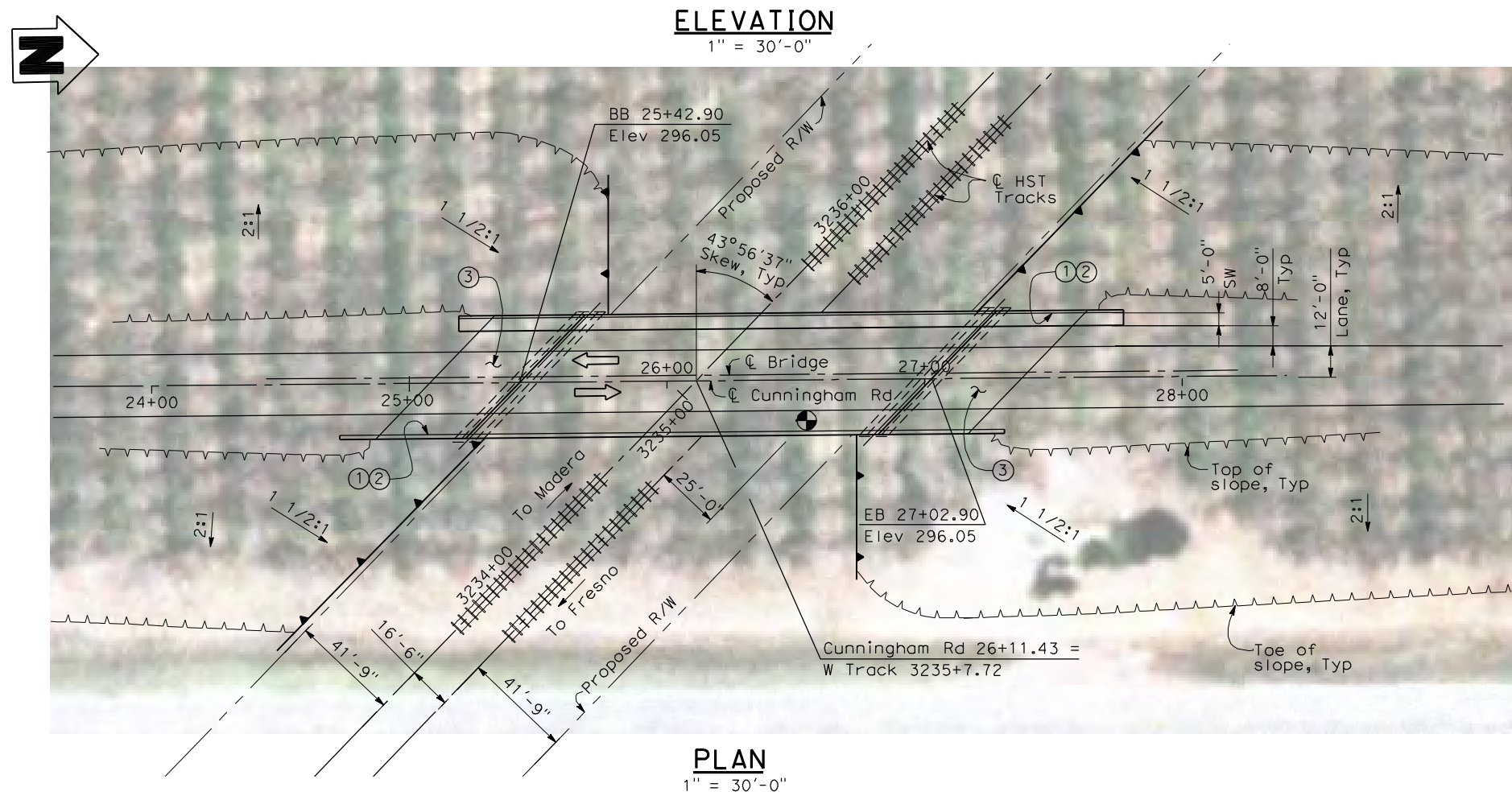
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 2)
AVENUE 21/AVENUE 24
FRESNO ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1056
SCALE
AS SHOWN
SHEET NO.
OF

4/30/2011 4:26:53 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1057.dgn



TYPICAL SECTION
1" = 10'-0"



NOTES:

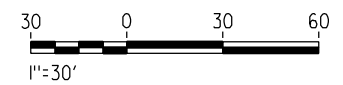
- ① Paint "Bridge No. xx-xx"
- ② Paint "Cunningham Road OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance
- Retaining wall

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	7'-6"
LENGTH	=	160'-0"
WIDTH	=	47'-6"
AREA	=	7,600 ft ²
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____

LOCATION 77

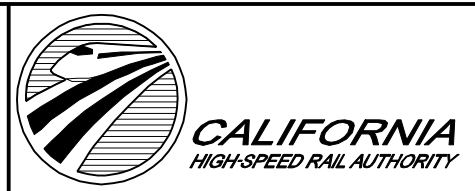


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. TANG
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

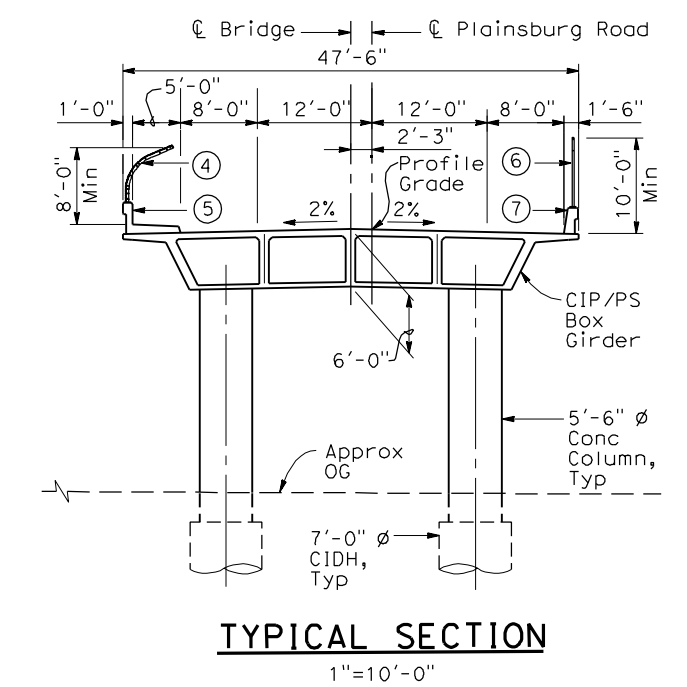
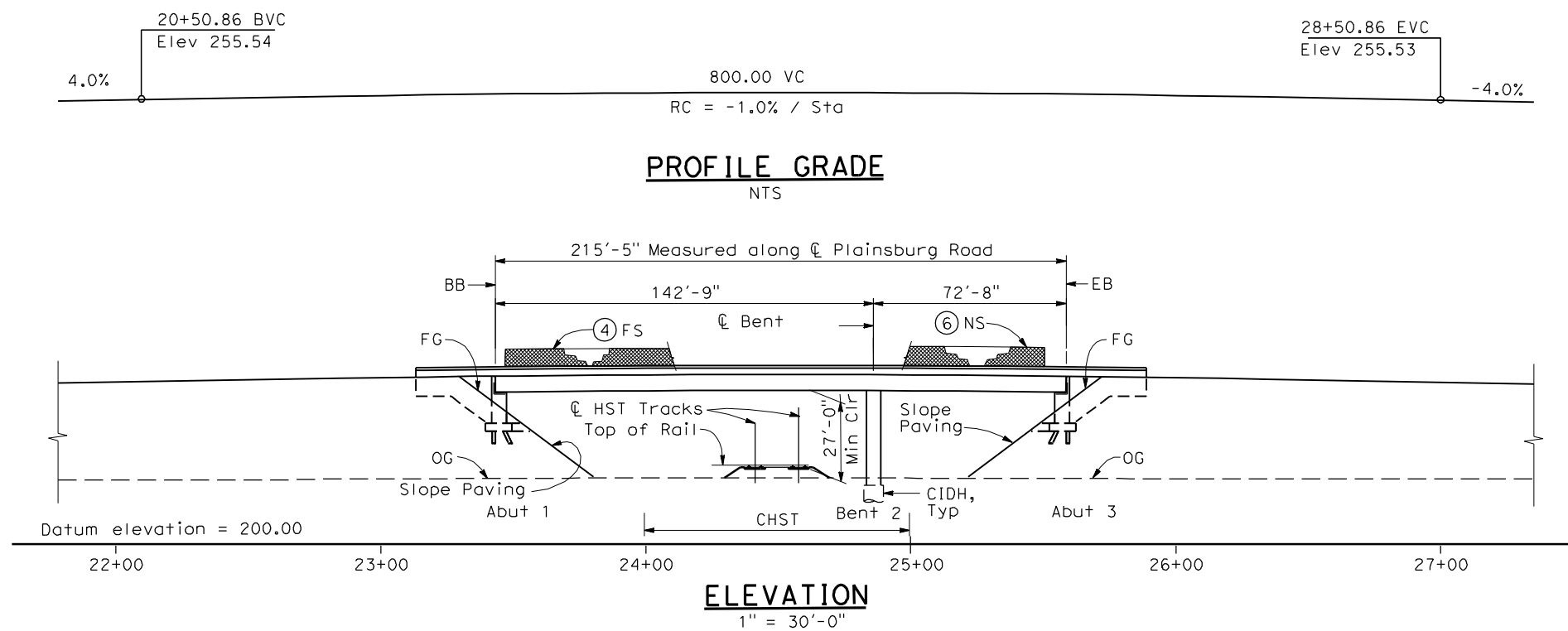
RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 2)
AVENUE 21/AVENUE 24
CUNNINGHAM ROAD OVERHEAD
PLANNING STUDY

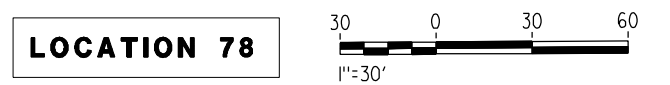
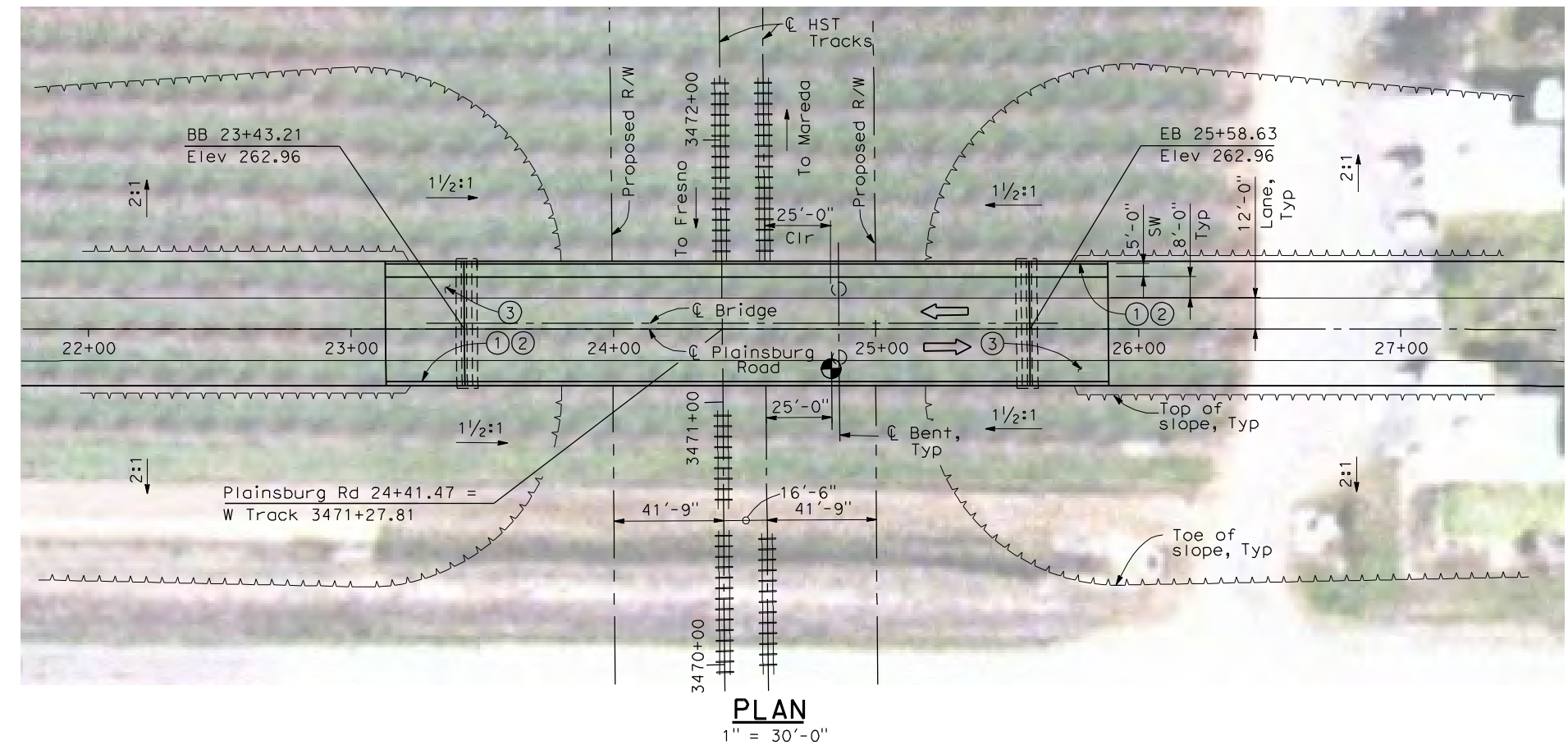
CONTRACT NO.	HSR06-007
DRAWING NO.	ST1057
SCALE	AS SHOWN
SHEET NO.	OF



- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Plainsburg Road OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Bearing of Plainsburg Road to be determined.
 - Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	215'-5"
WIDTH	=	47'-6"
AREA	=	10,230 ft ²
COST/ \square FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
J. HOPELL

CHECKED BY
L. LEUNG

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 2)
AVENUE 21/AVENUE 24
PLAINSBURG ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007

DRAWING NO.
ST1058

SCALE
AS SHOWN

SHEET NO.
OF

4/30/2011 4:27:41 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\MPS\M1\15%_cost_reduction_submittal\GradeStructure\From Oakland\MF-ST1059.dgn

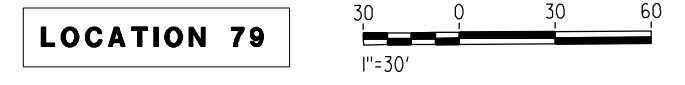
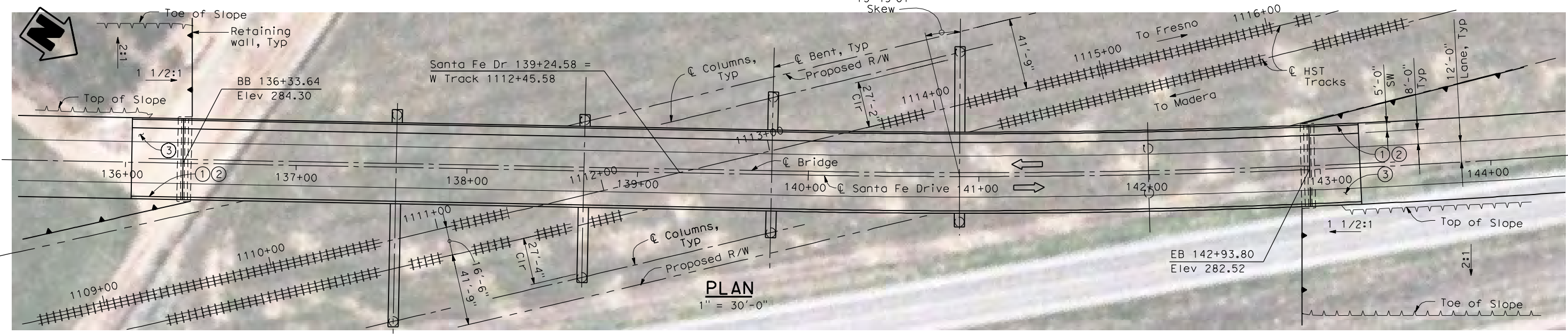
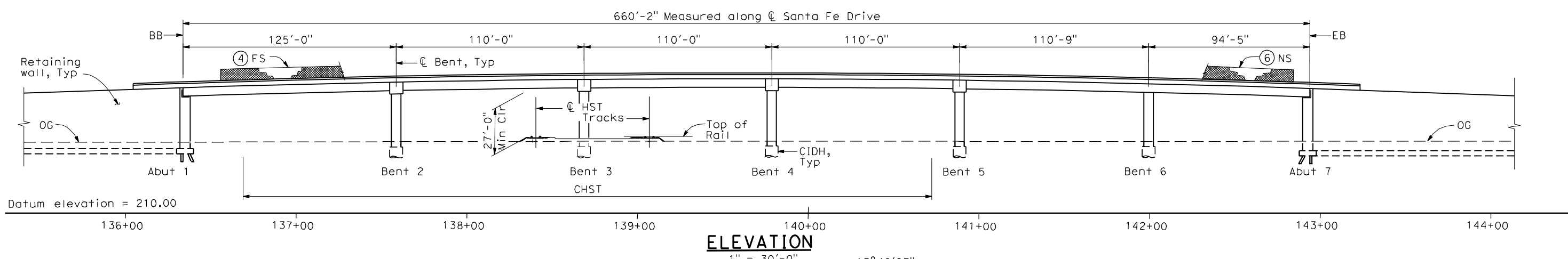
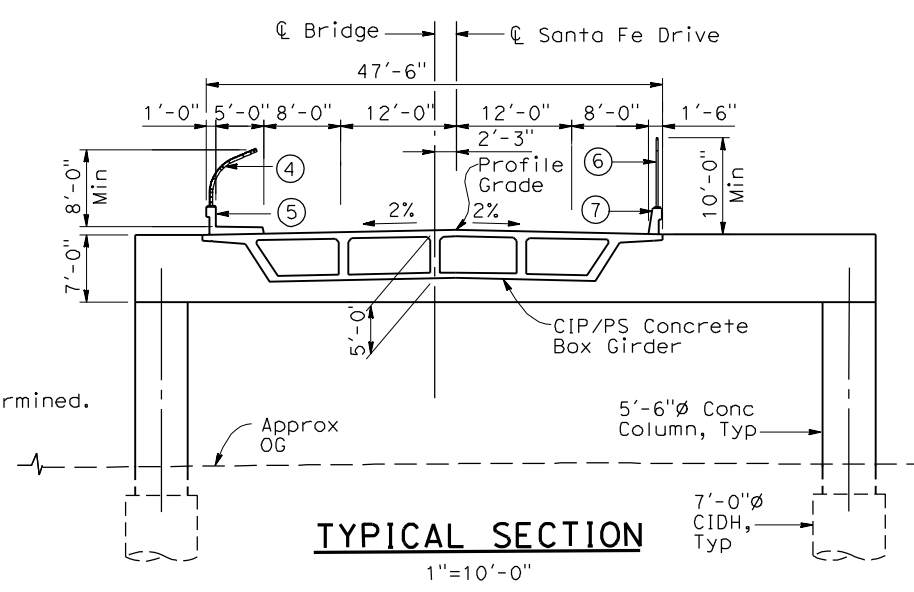
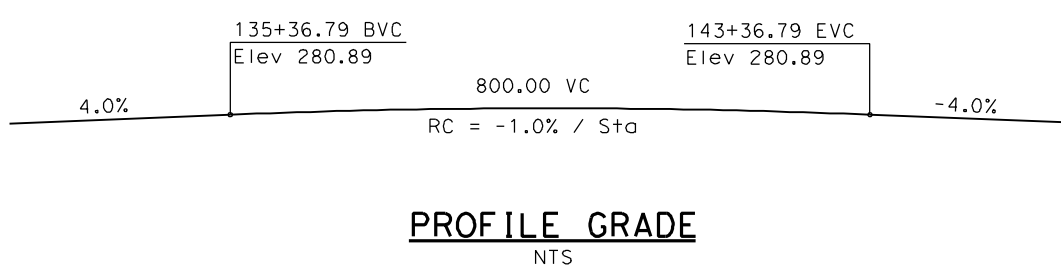
LEGEND:

- ← Direction of traffic
- ⊙ Point of minimum vertical clearance
- ▲ Retaining Wall

DATE OF ESTIMATE = _____
 BRIDGE REMOVAL = _____
 STRUCTURE DEPTH = 5'-0"
 LENGTH = 660'-2"
 WIDTH = 47'-6"
 AREA = 31,360 ft²
 COST/ØFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____
 TOTAL COST = _____

NOTES:

- ① Paint "Bridge No. XX-XX"
- ② Paint "Santa Fe Drive OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Bearing of Santa Fe Drive to be determined.
9. Existing underground and overhead utilities to be determined.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
 DRAWN BY
J. HODELL
 CHECKED BY
L. LEUNG
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



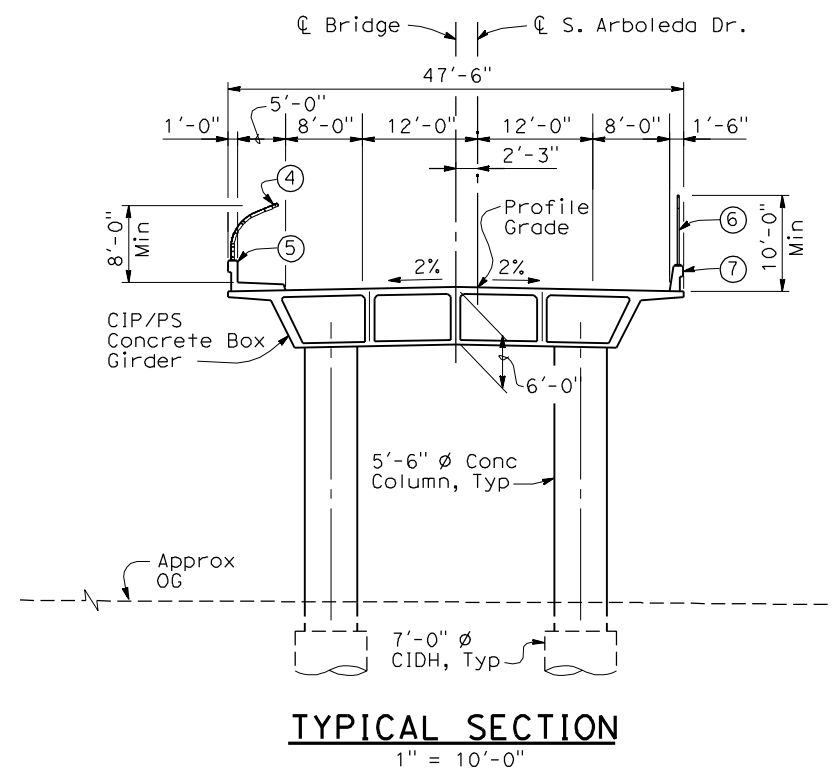
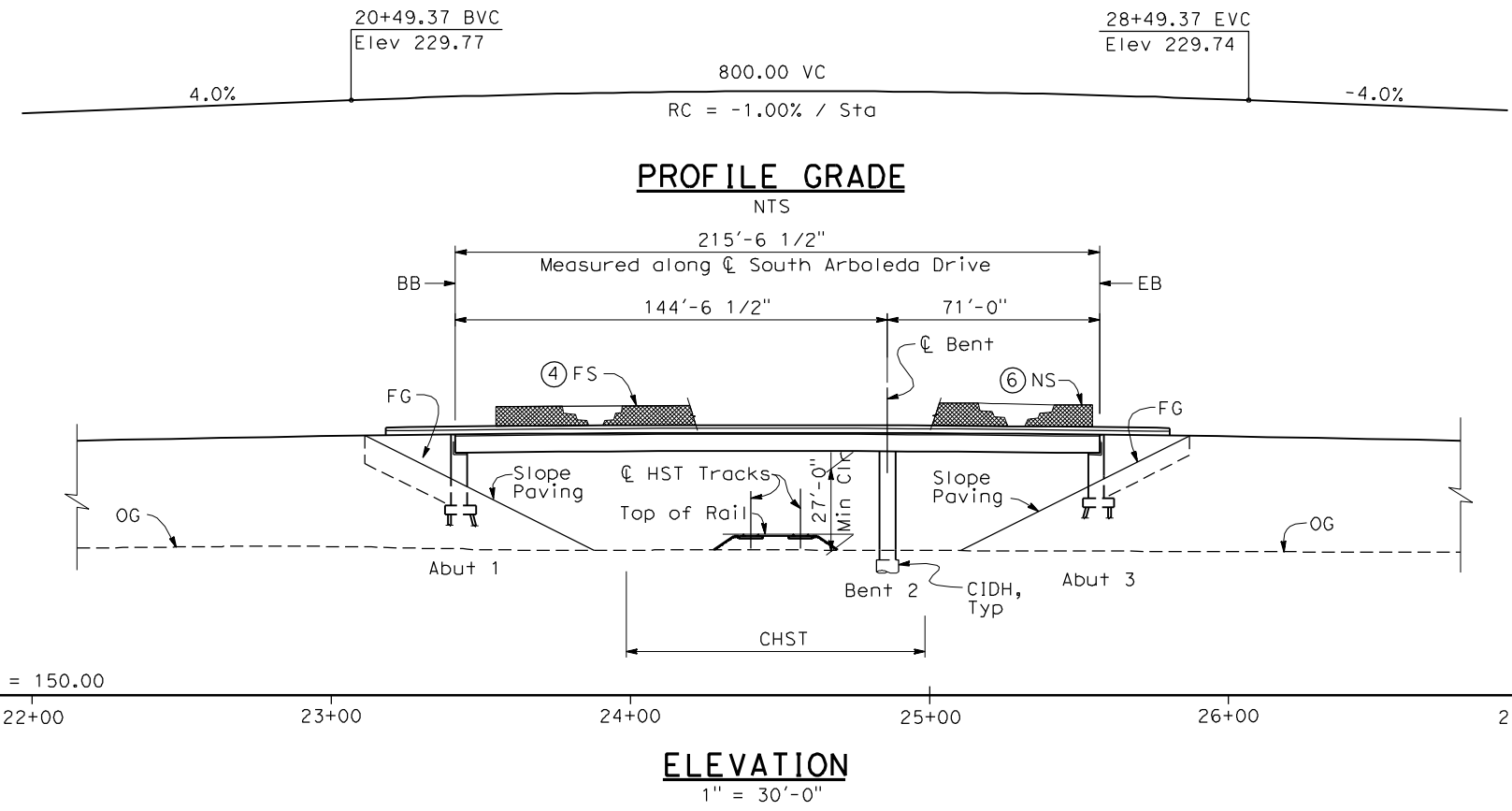
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION (ALTERNATIVE 3)
 AVENUE 21/AVENUE 24
 SANTA FE DRIVE OVERHEAD
 PLANNING STUDY

CONTRACT NO.
HSR06-007

DRAWING NO.
ST1059

SCALE
AS SHOWN

SHEET NO.
OF



- NOTES:**
- ① Paint "Bridge No. xx-xx"
 - ② Paint "South Arboleda Drive OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

LEGEND:

\leftarrow Direction of traffic

\bullet Point of minimum vertical clearance

DATE OF ESTIMATE = _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 6'-0"

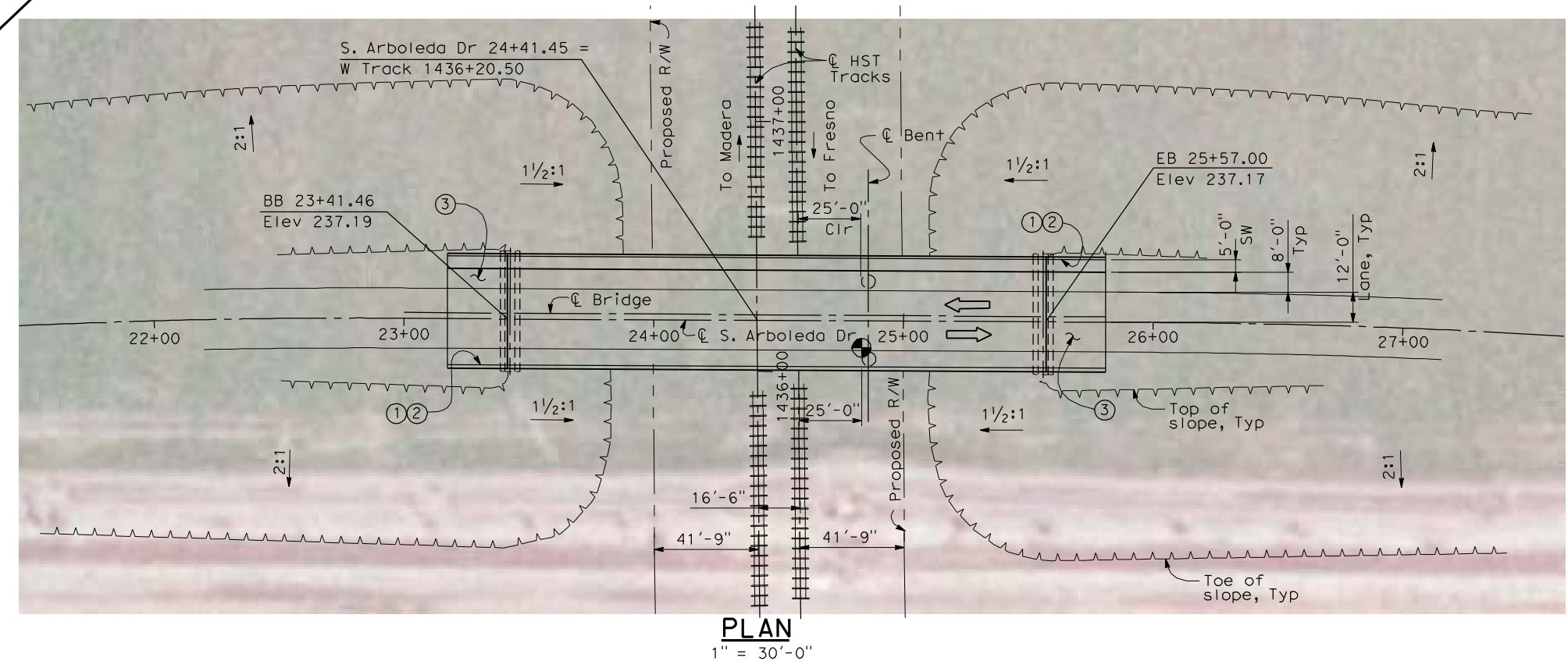
LENGTH = 215'-6 1/2"

WIDTH = 47'-6"

AREA = 10,240 ft²

COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____



4/30/2011 4:28:54 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1061.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE

DRAWN BY
J. TANG

CHECKED BY
L. LEUNG

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 3)
AVENUE 21/AVENUE 24
SOUTH ARBOLEDA DRIVE OVERHEAD
PLANNING STUDY

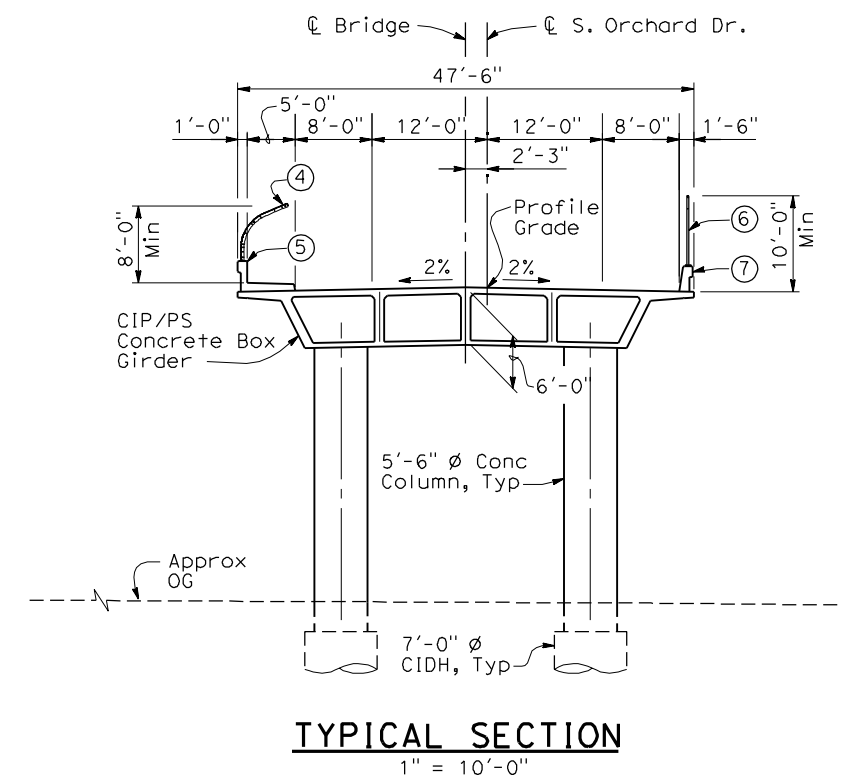
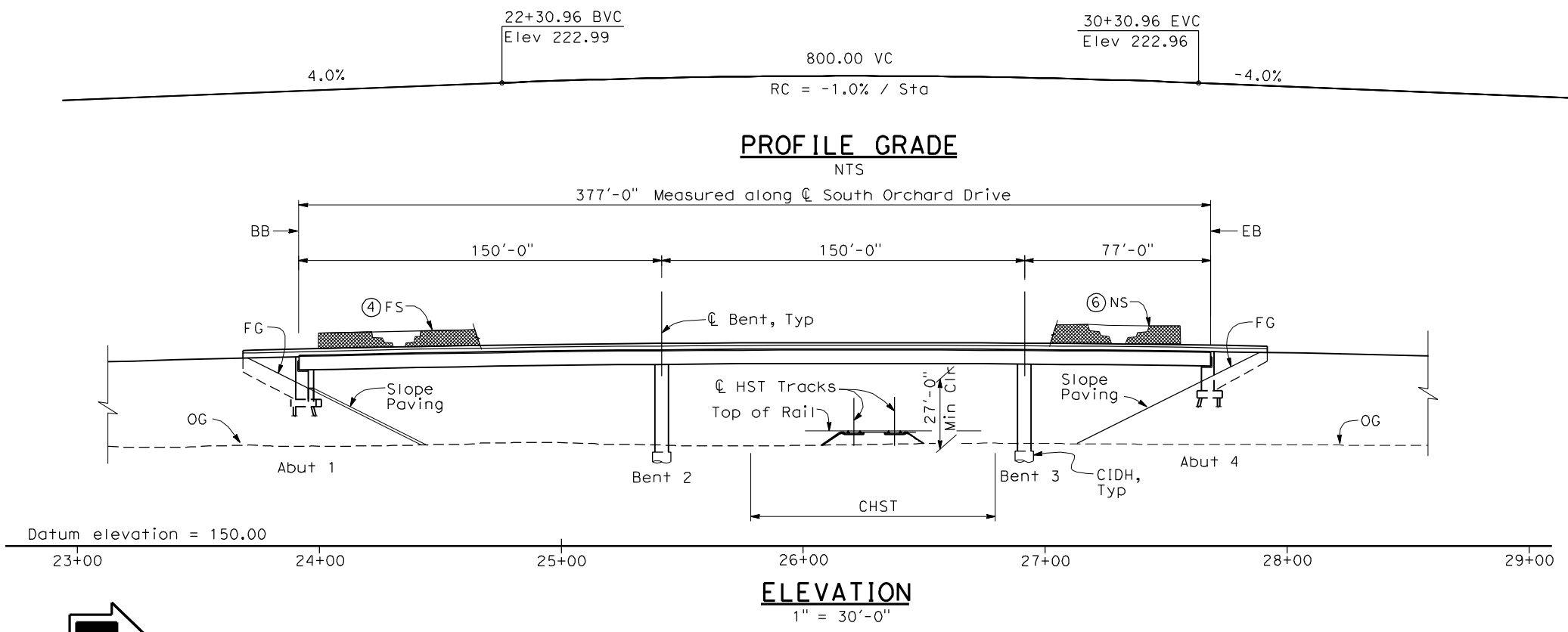
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1061

SCALE
AS SHOWN

SHEET NO.
OF

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NOTES:

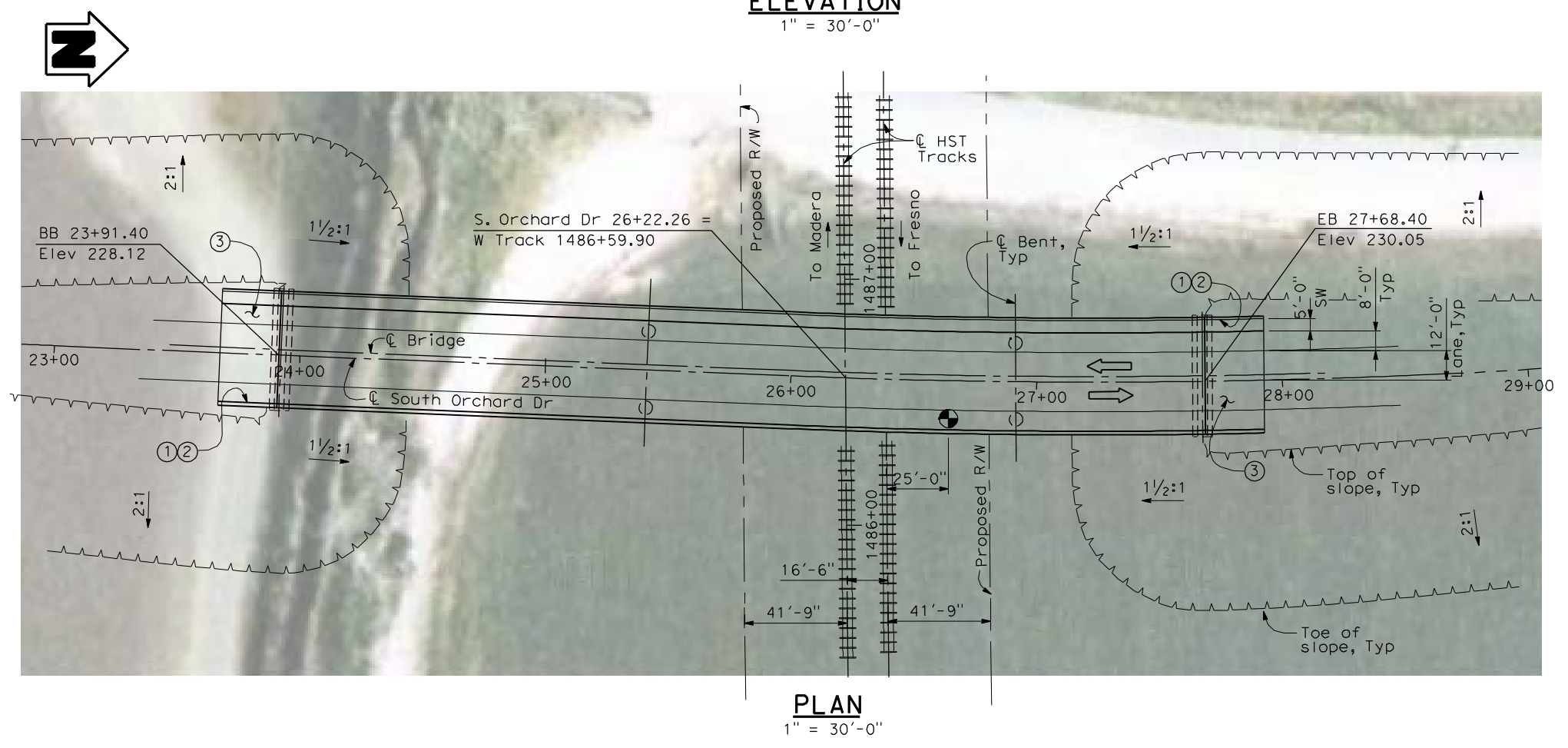
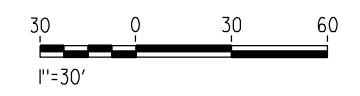
- ① Paint "Bridge No. xx-xx"
- ② Paint "South Orchard Drive OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	377'-0"
WIDTH	=	47'-6"
AREA	=	17,910 ft ²
COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____

LOCATION 82



PLAN
1" = 30'-0"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
J. TANG
CHECKED BY
L. LEUNG
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

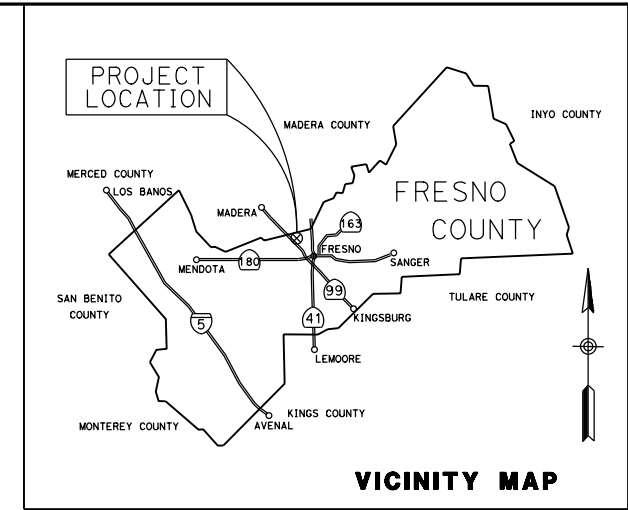
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 3)
AVENUE 21/AVENUE 24
SOUTH ORCHARD DRIVE OVERHEAD
PLANNING STUDY

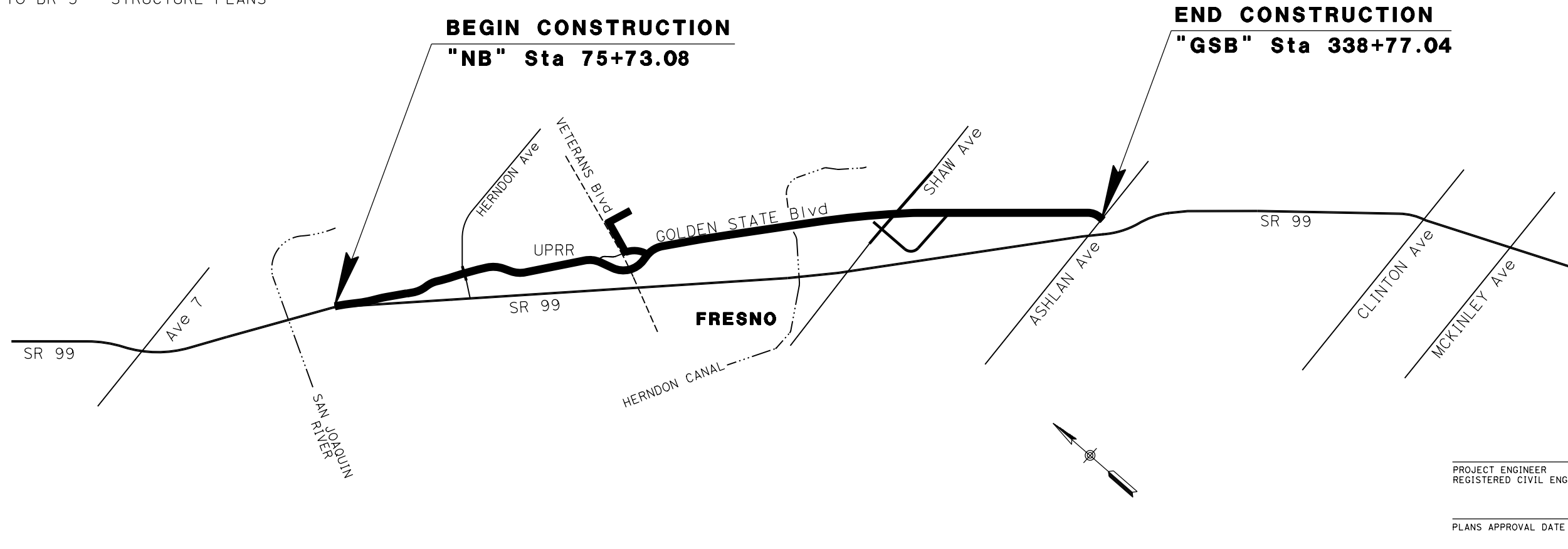
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1062
SCALE
AS SHOWN
SHEET NO.
OF

CALIFORNIA HIGH SPEED RAIL AUTHORITY
CITY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION PLANS FOR
GOLDEN STATE BOULEVARD



INDEX OF PLANS

T-1	TITLE SHEET
X-1 TO X-18	TYPICAL CROSS SECTIONS
K-1	KEYMAP
L-1 TO L-17	LAYOUT AND PROFILE
SE-1 TO SE-2	SUPERELEVATION
BR-1 to BR-5	STRUCTURE PLANS



PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

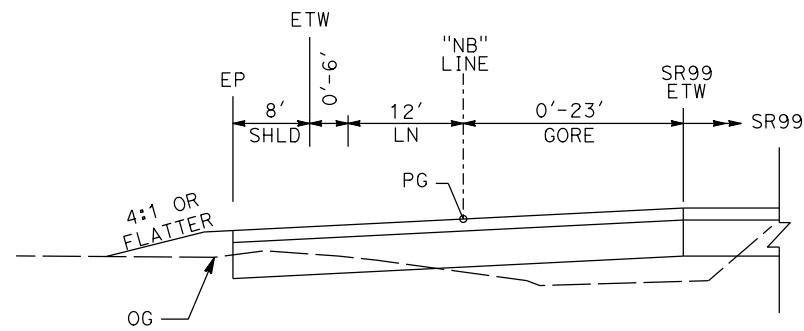
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

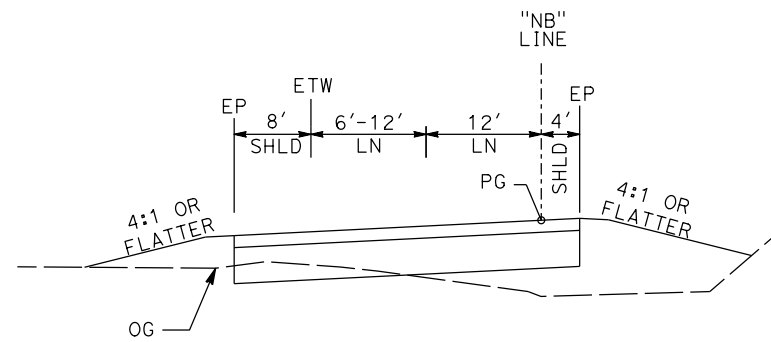


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TITLE

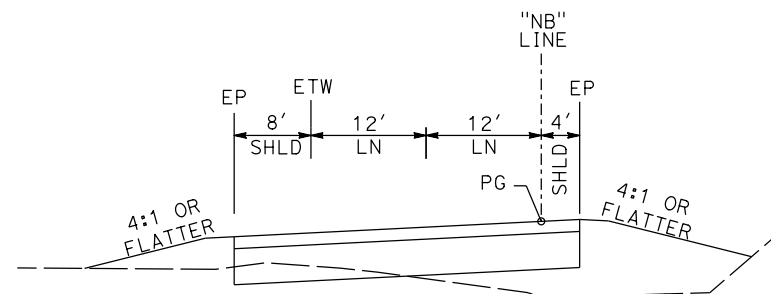
CONTRACT NO.
HSR06-007
DRAWING NO.
T-1
SCALE
NO SCALE
SHEET NO.



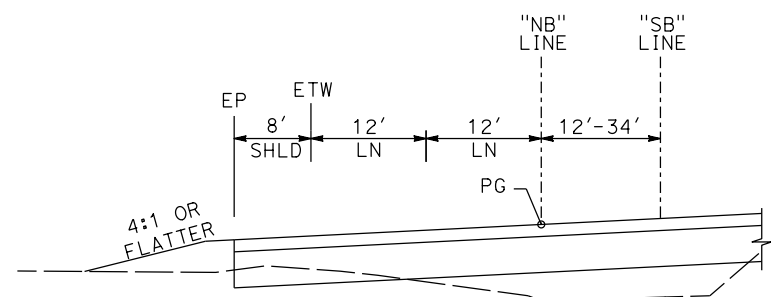
"NB" 75+73 TO "NB" 82+17



"NB" 82+17 TO "NB" 84+72

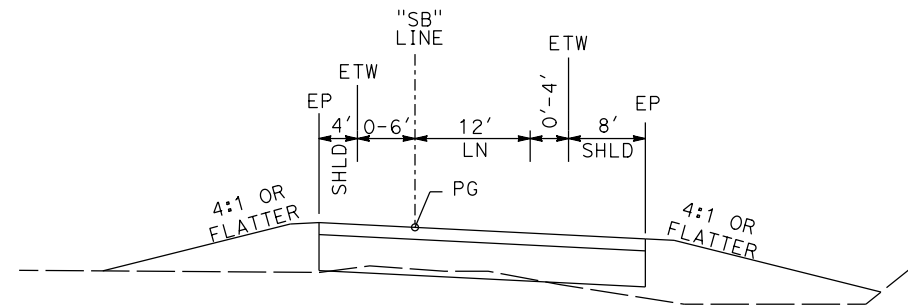


"NB" 84+72 TO "NB" 97+56

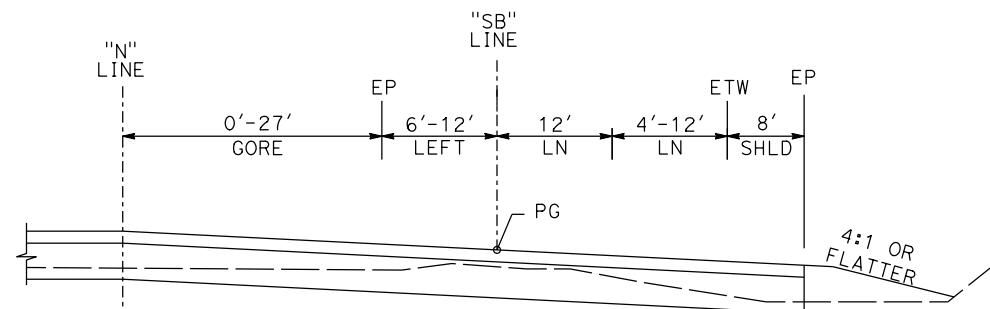


"NB" 97+56 TO "NB" 100+00

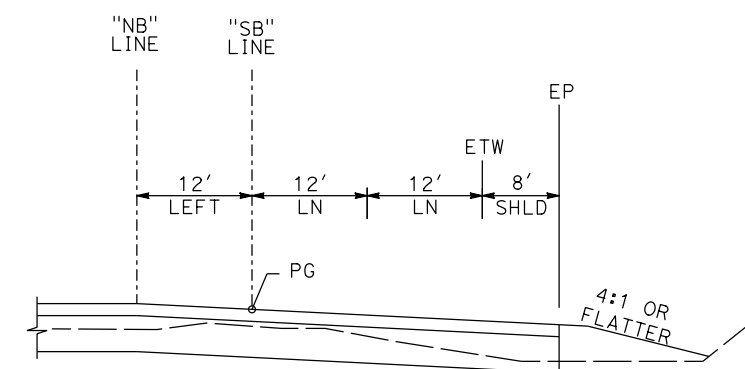
NORTHBOUND ONRAMP



"SB" 95+47 TO "SB" 97+61



"SB" 97+61 TO "SB" 99+51



"SB" 99+51 TO "SB" 100+00

SOUTHBOUND OFFRAMP

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

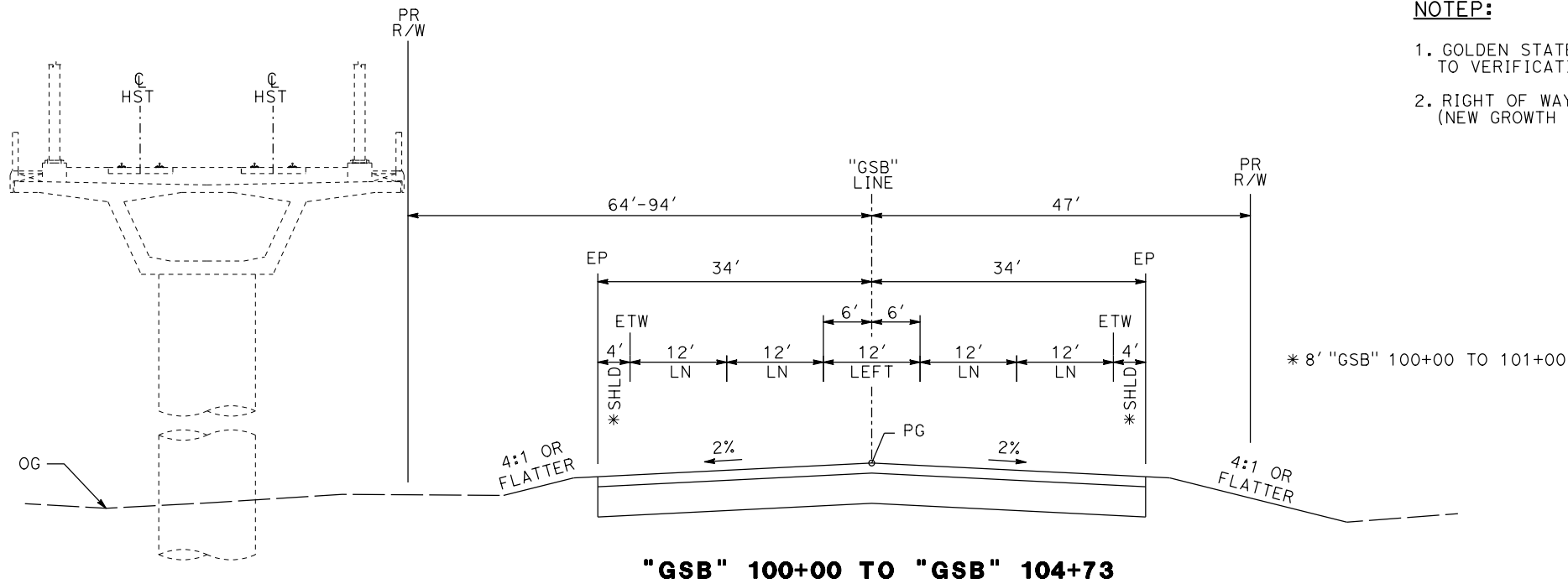
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

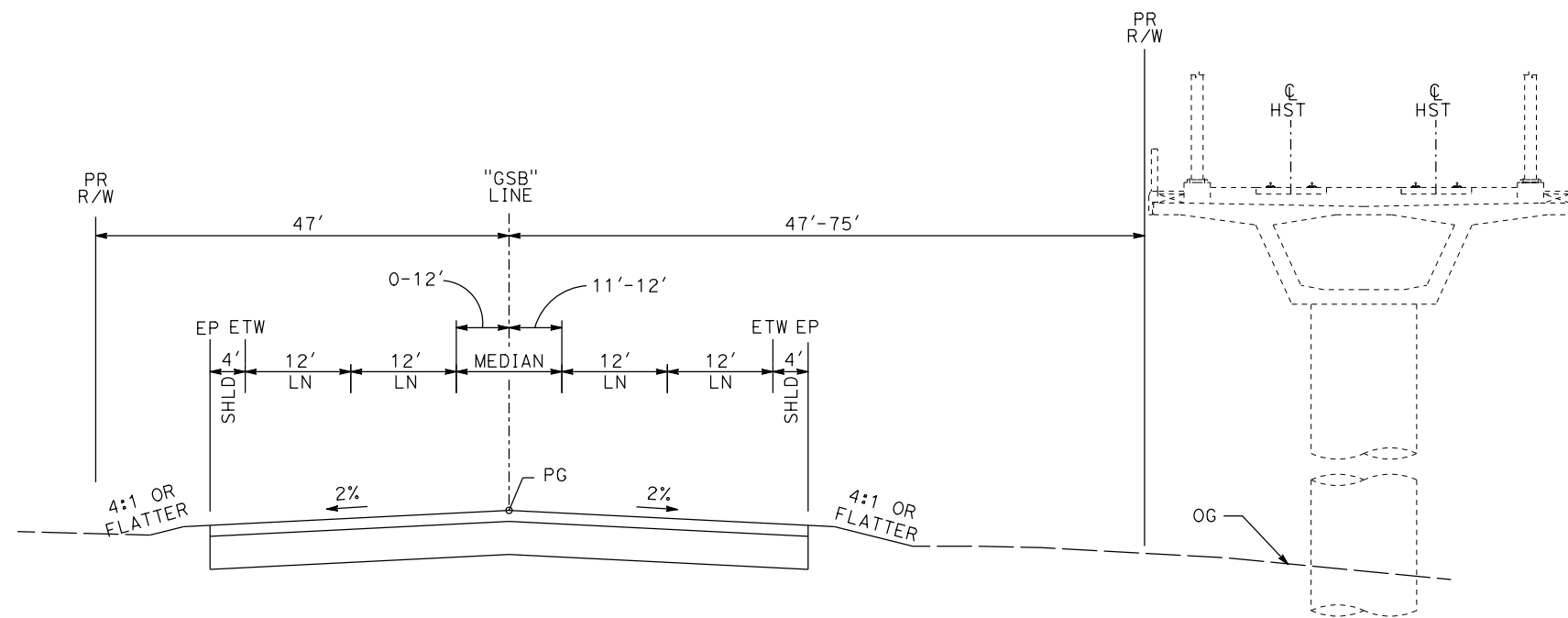
CONTRACT NO.
HSR06-007
DRAWING NO.
X-1
SCALE
SHEET NO.



"GSB" 100+00 TO "GSB" 104+73

NOTE:

1. GOLDEN STATE BLVD ULTIMATE STREET WIDTH/CLASSIFICATION SUBJECT TO VERIFICATION.
2. RIGHT OF WAY WIDTH BASED ON CITY OF FRESNO UNDIVIDED COLLECTORS (NEW GROWTH AREA) TYPICAL STREET CROSS-SECTION.



"GSB" 104+73 TO "GSB" 110+65

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

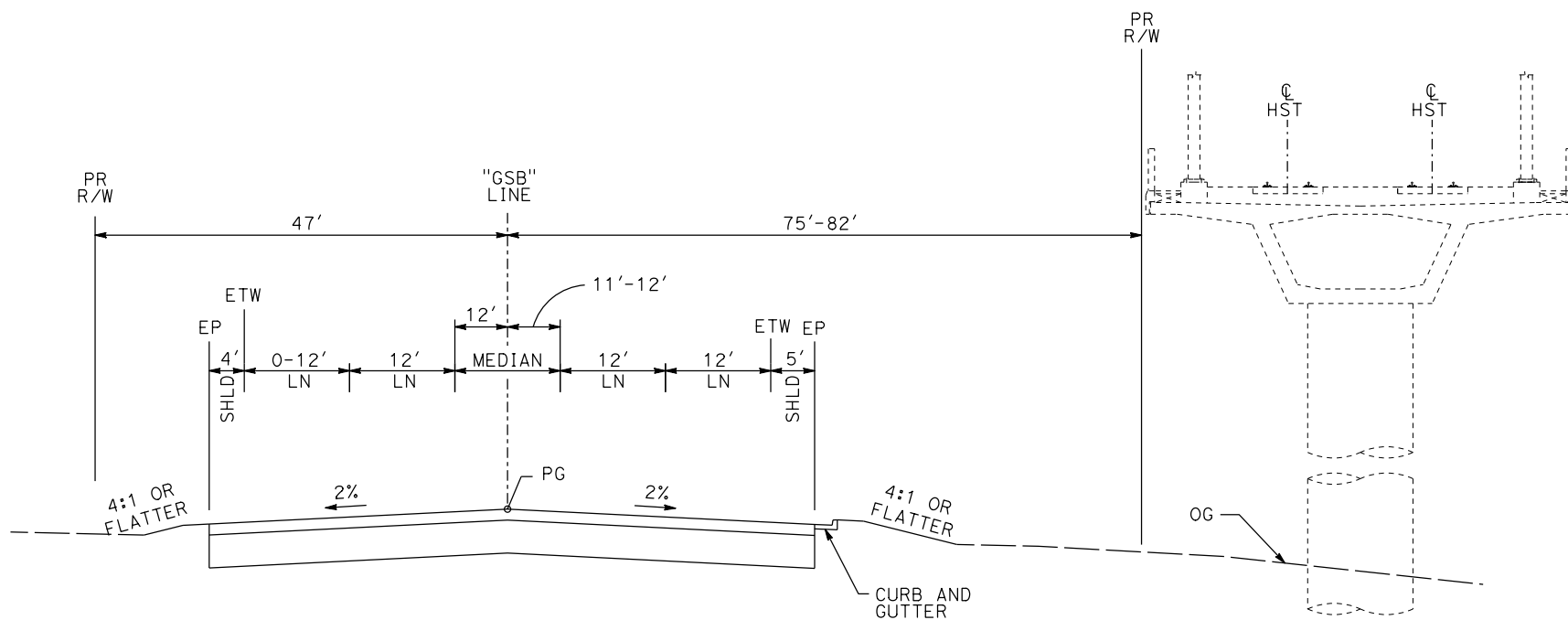
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

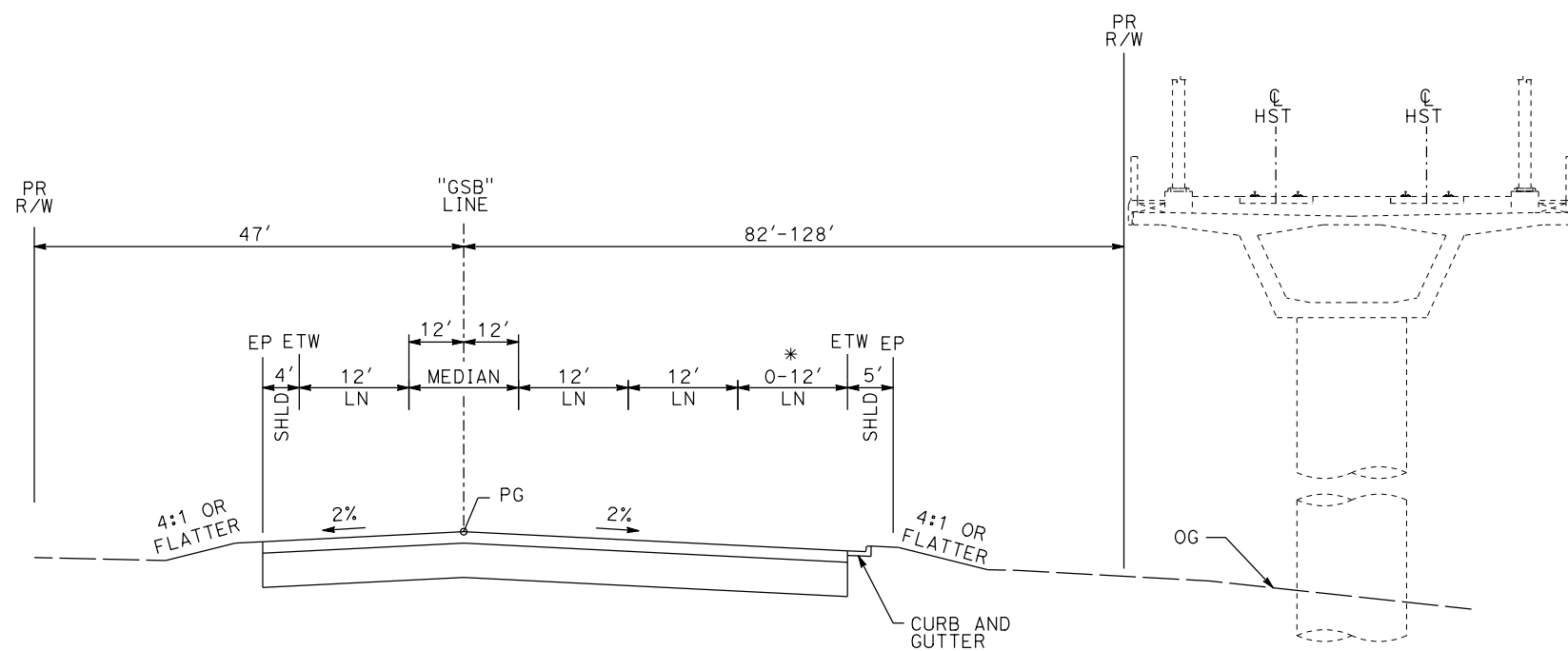


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

CONTRACT NO.
HSR06-007
DRAWING NO.
X-2
SCALE
SHEET NO.



"GSB" 110+65 TO "GSB" 111+96



"GSB" 111+96 TO "GSB" 116+57

* 114+59 TO 116+57

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

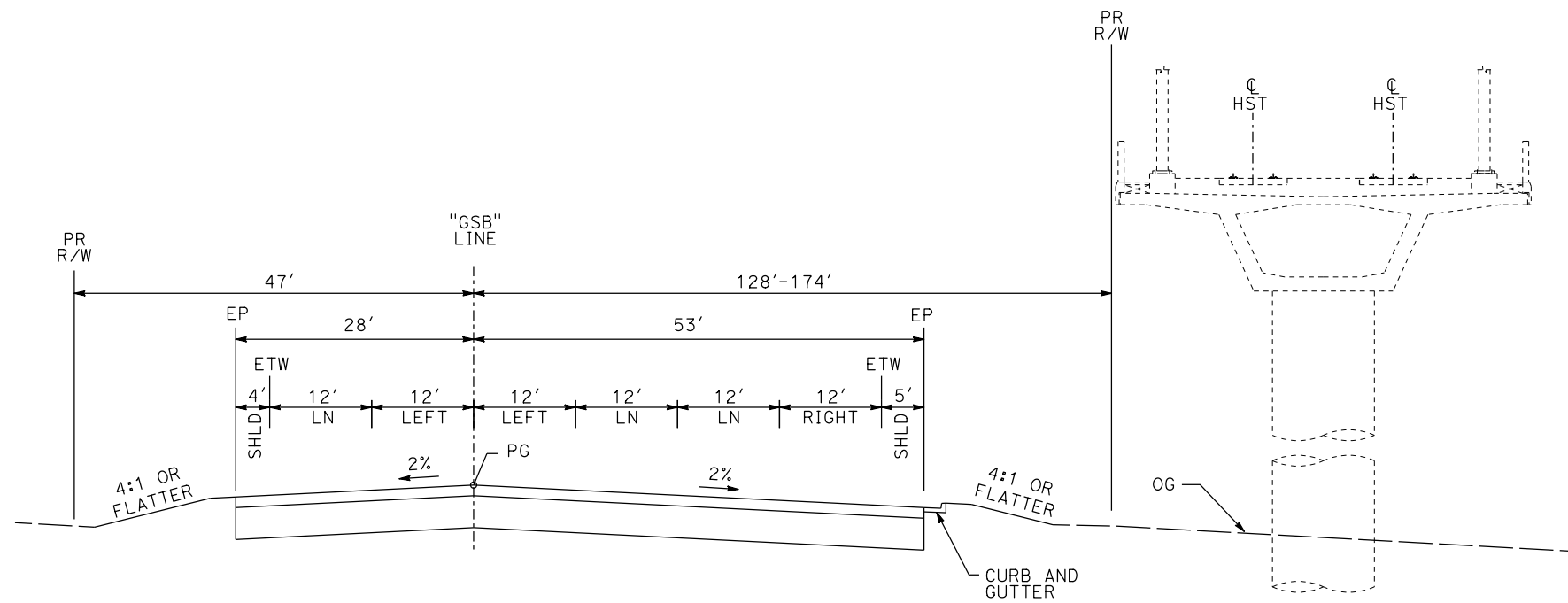
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

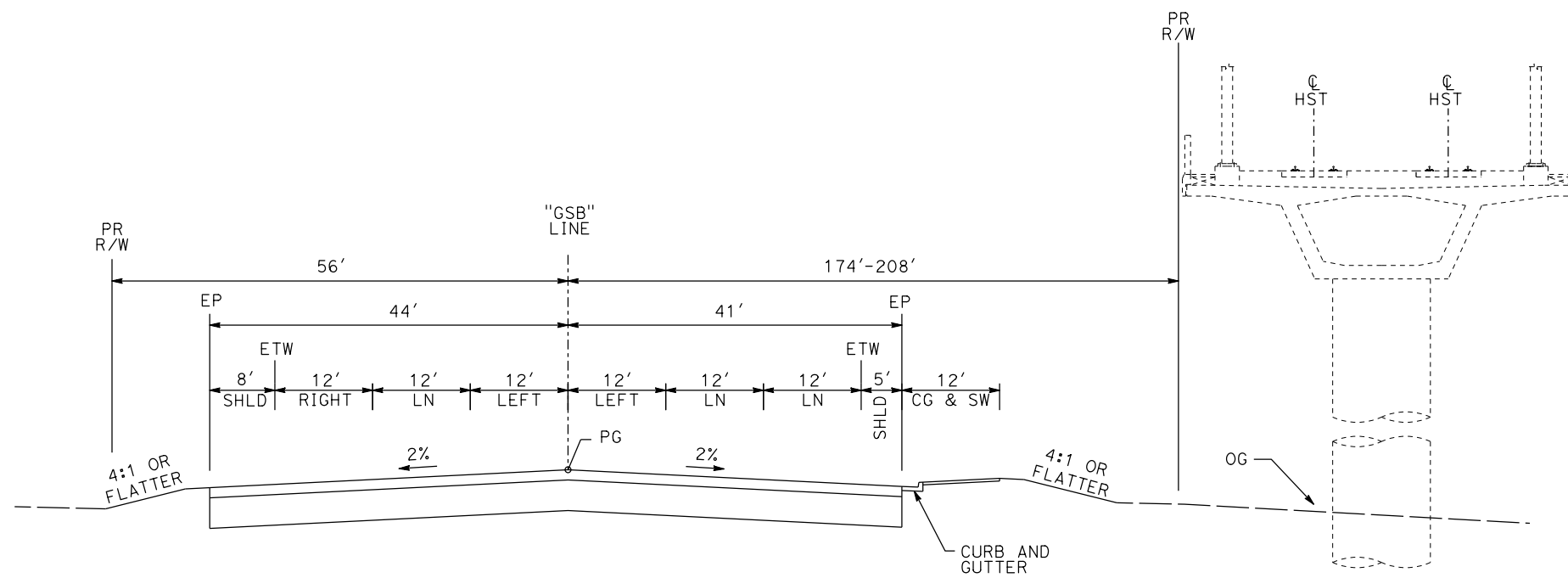


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

CONTRACT NO.
HSR06-007
DRAWING NO.
X-3
SCALE
SHEET NO.



"GSB" 116+57 TO "GSB" 120+50



"GSB" 120+50 TO "GSB" 124+47

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

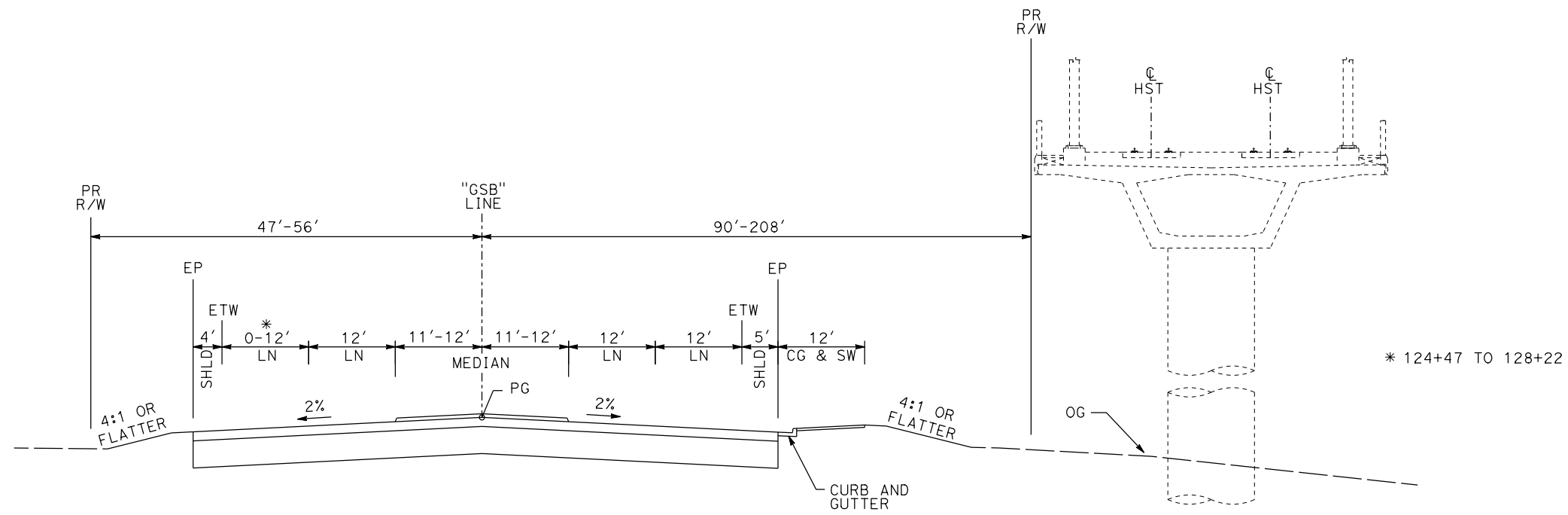
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**NOT FOR
CONSTRUCTION**



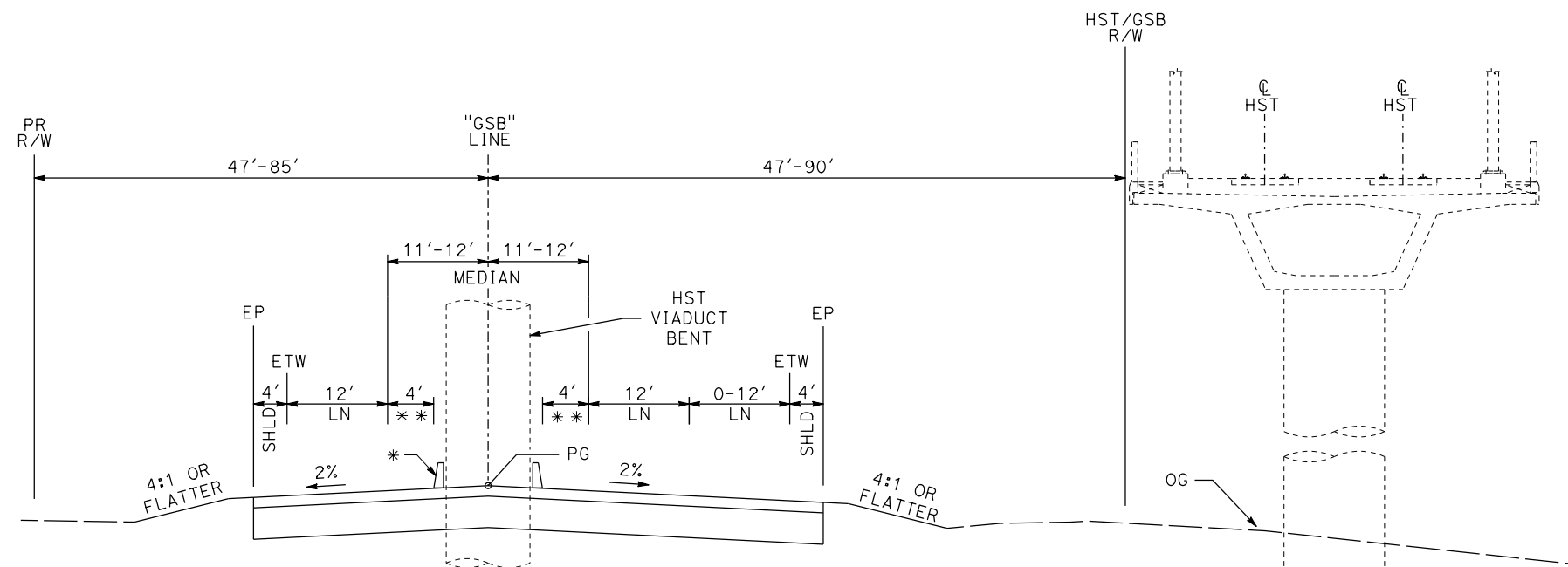
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-4
SCALE
SHEET NO.



"GSB" 124+47 TO "GSB" 134+16

* 124+47 TO 128+22



"GSB" 134+16 TO "GSB" 141+36

* CONCRETE BARRIER TYPE 60D
135+05 TO 137+37
** 4' MIN ~ 135+05 TO 137+37

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

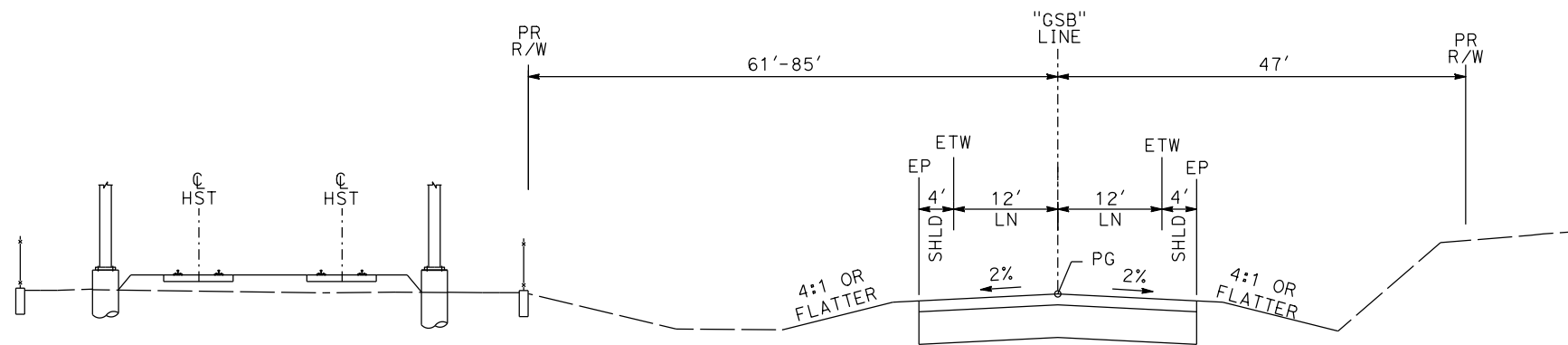
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SUBMITTAL

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CONSTRUCTION

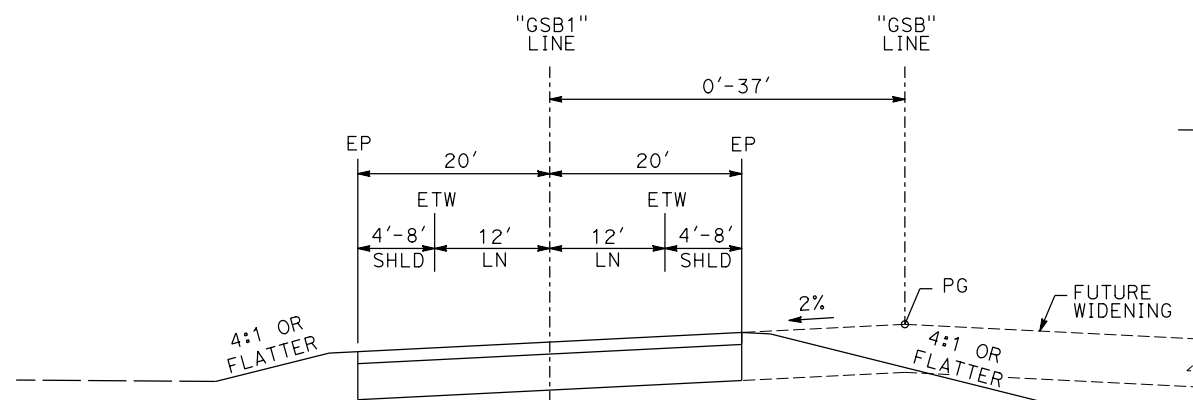


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

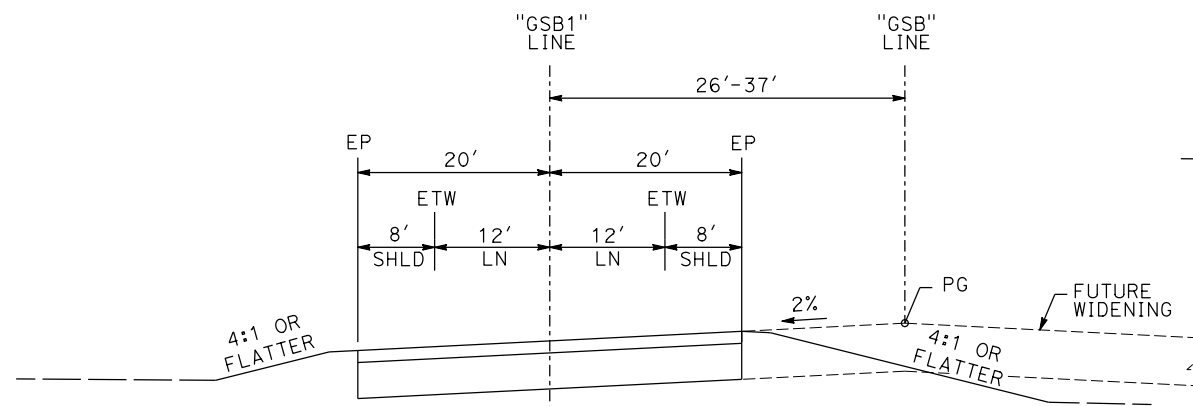
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HSR06-007
DRAWING NO.
X-5
SCALE
SHEET NO.



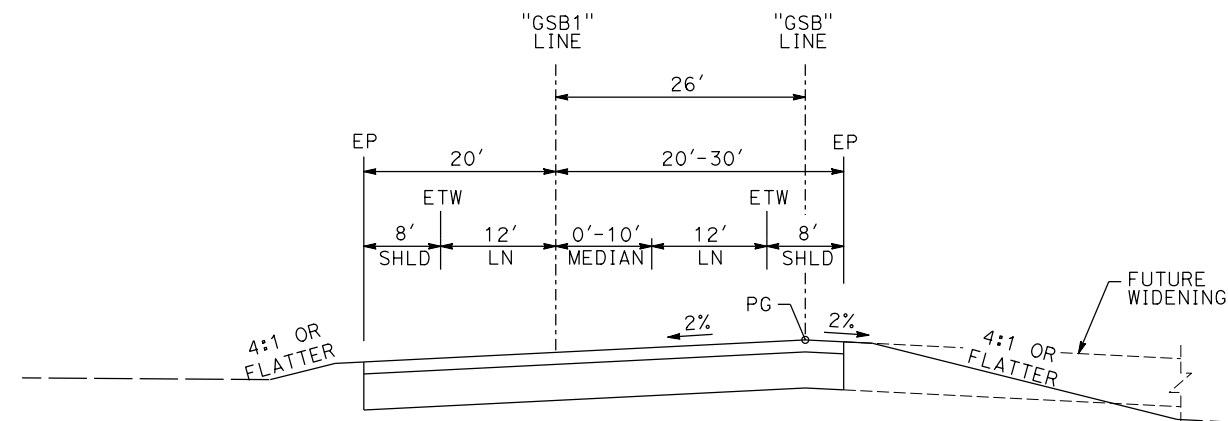
"GSB" 141+36 TO "GSB" 161+45



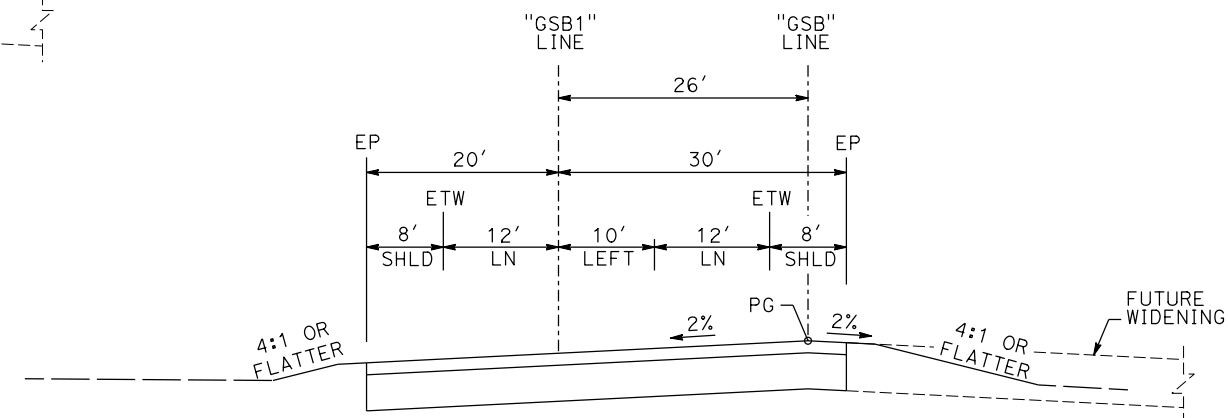
"GSB" 161+45 TO "GSB" 167+38



"GSB" 167+38 TO "GSB" 176+62



"GSB" 176+62 TO "GSB" 182+26



"GSB" 182+26 TO "GSB" 184+25

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE
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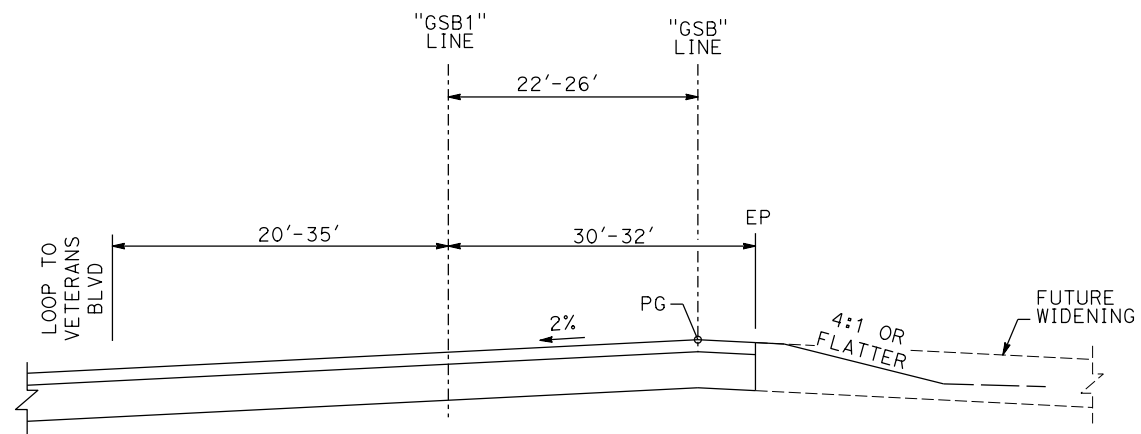
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15% DESIGN
SUBMITTAL

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CONSTRUCTION

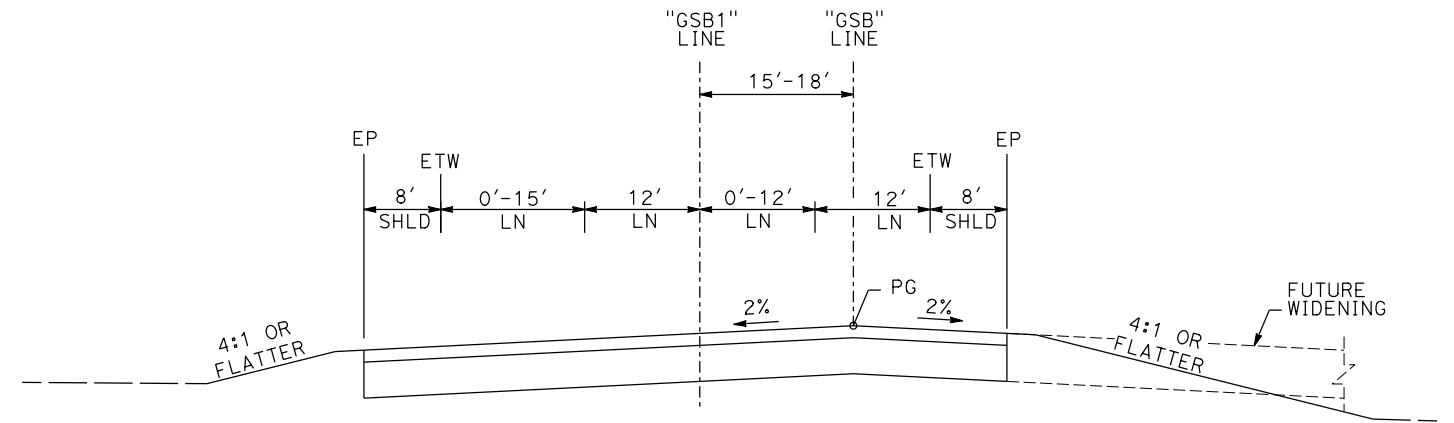


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

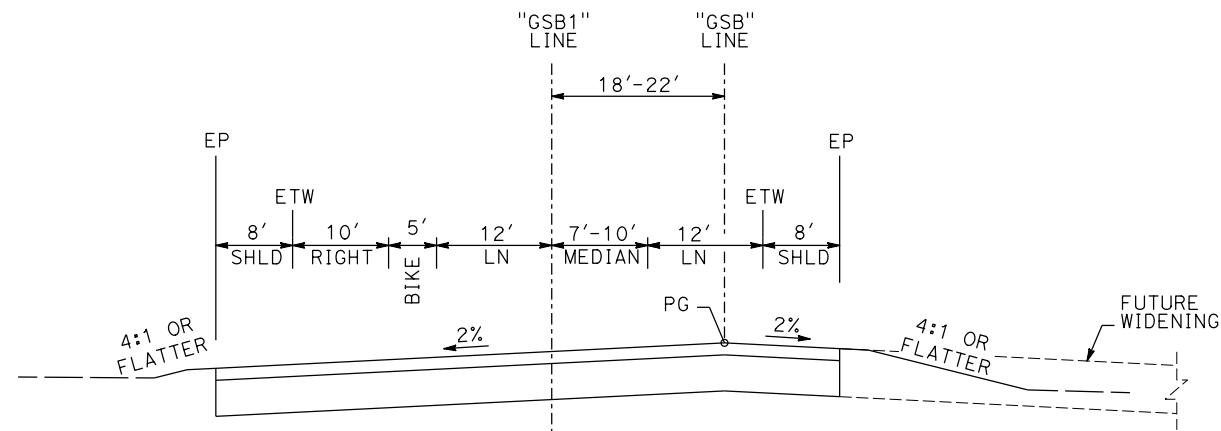
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HSR06-007
DRAWING NO.
X-6
SCALE
SHEET NO.



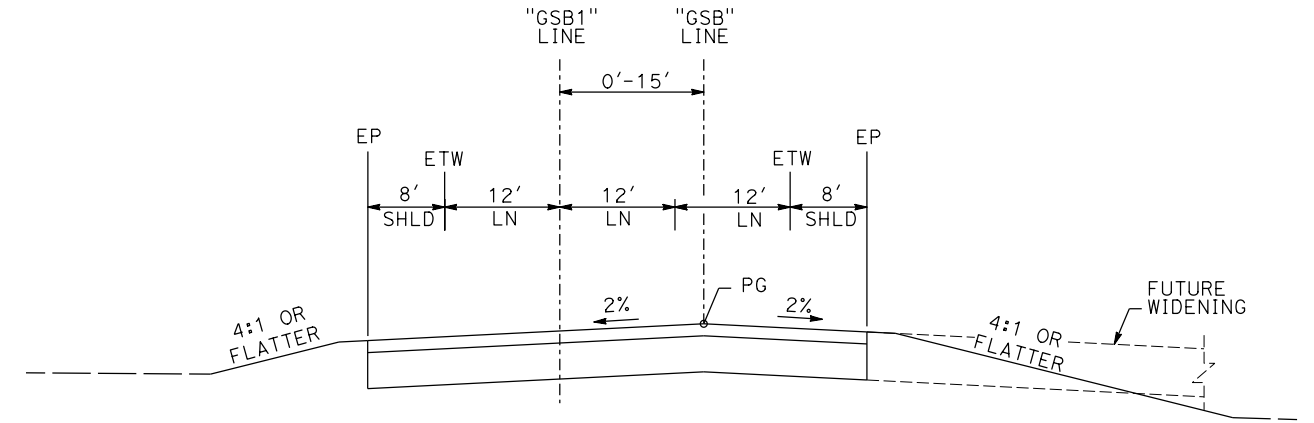
"GSB" 184+25 TO "GSB" 185+41



"GSB" 186+42 TO "GSB" 187+23



"GSB" 185+41 TO "GSB" 186+42



"GSB" 187+23 TO "GSB" 190+86

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

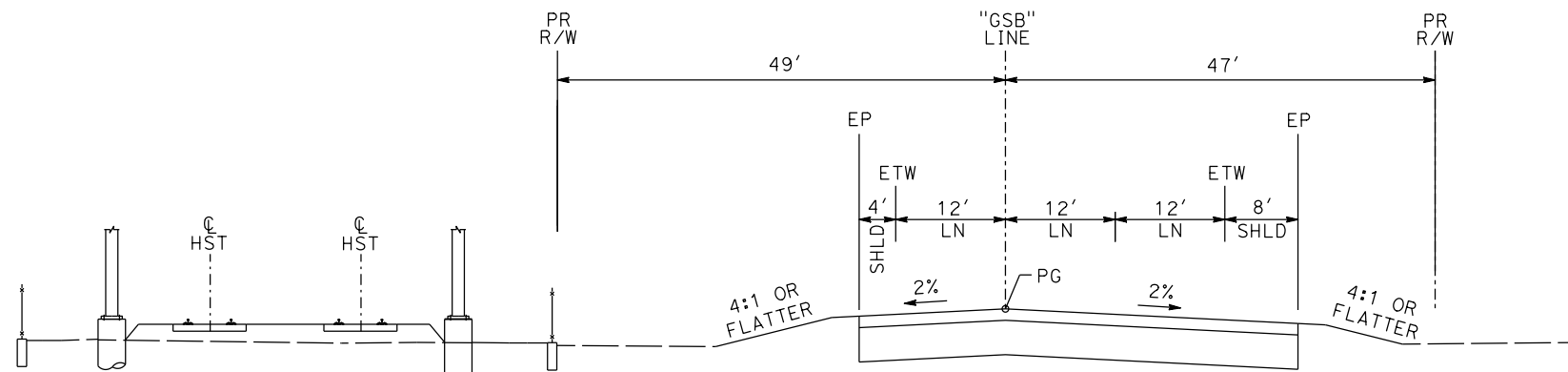
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15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

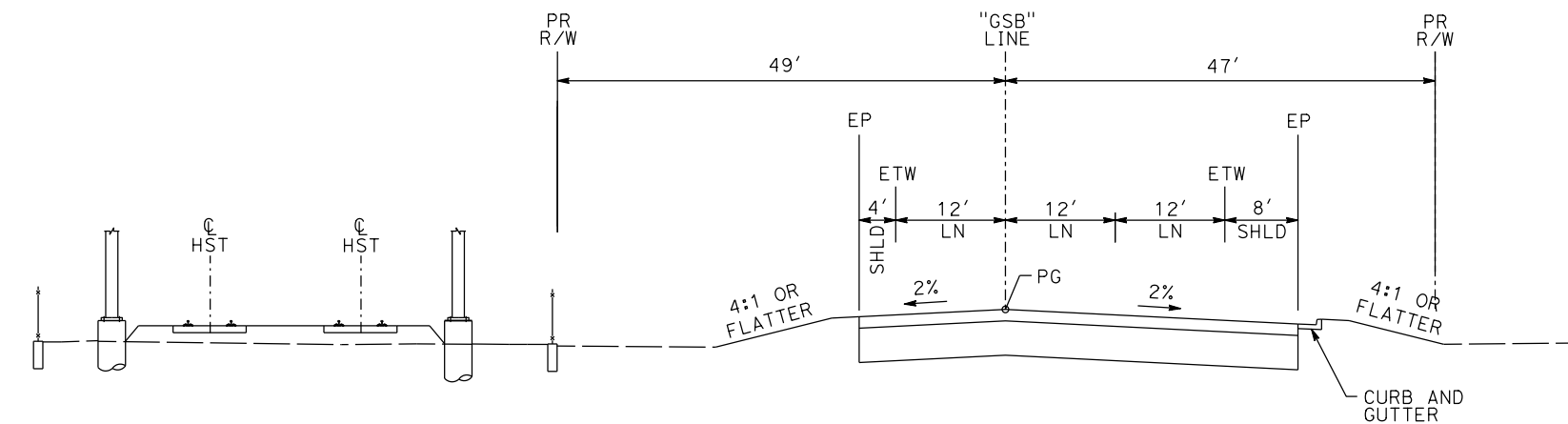


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

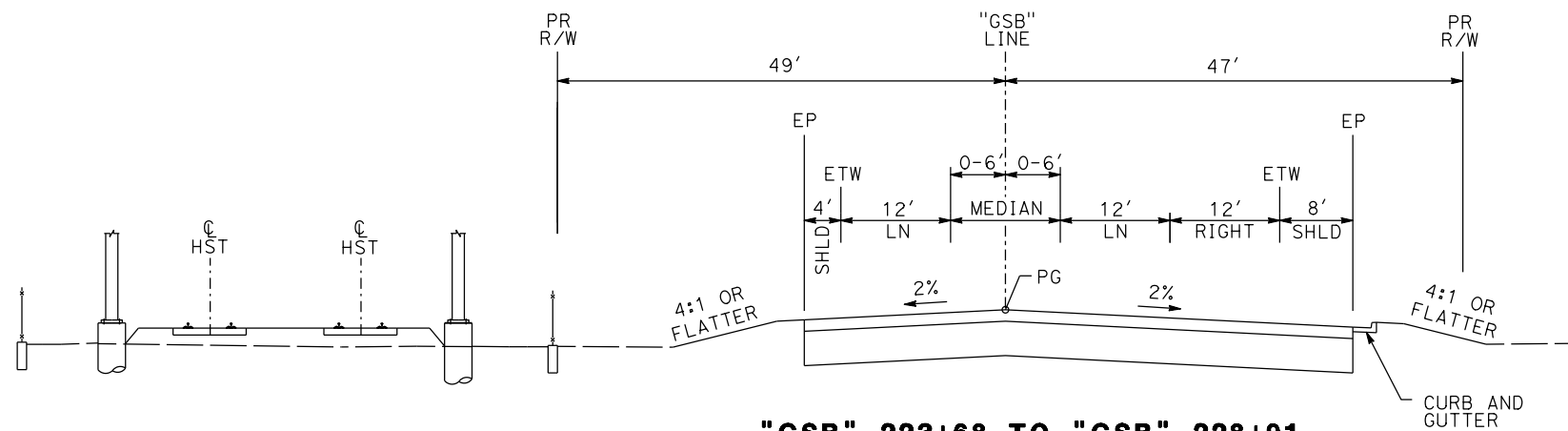
CONTRACT NO.
HSR06-007
DRAWING NO.
X-7
SCALE
SHEET NO.



"GSB" 190+86 TO "GSB" 197+48



"GSB" 197+48 TO "GSB" 223+68



"GSB" 223+68 TO "GSB" 228+91

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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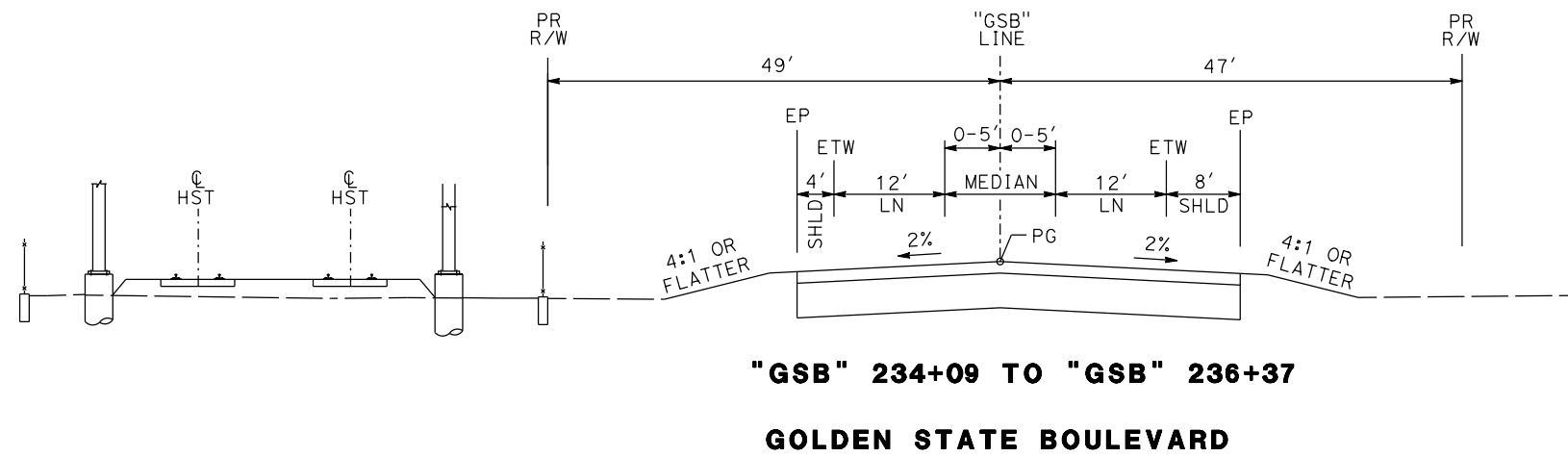
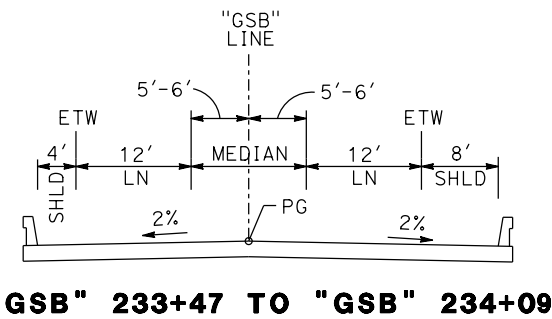
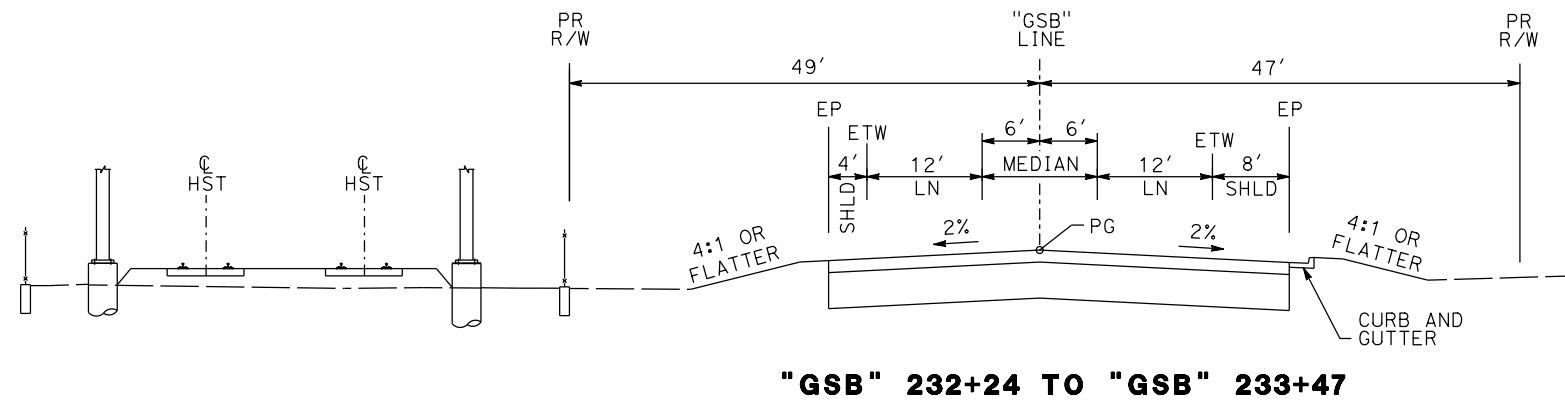
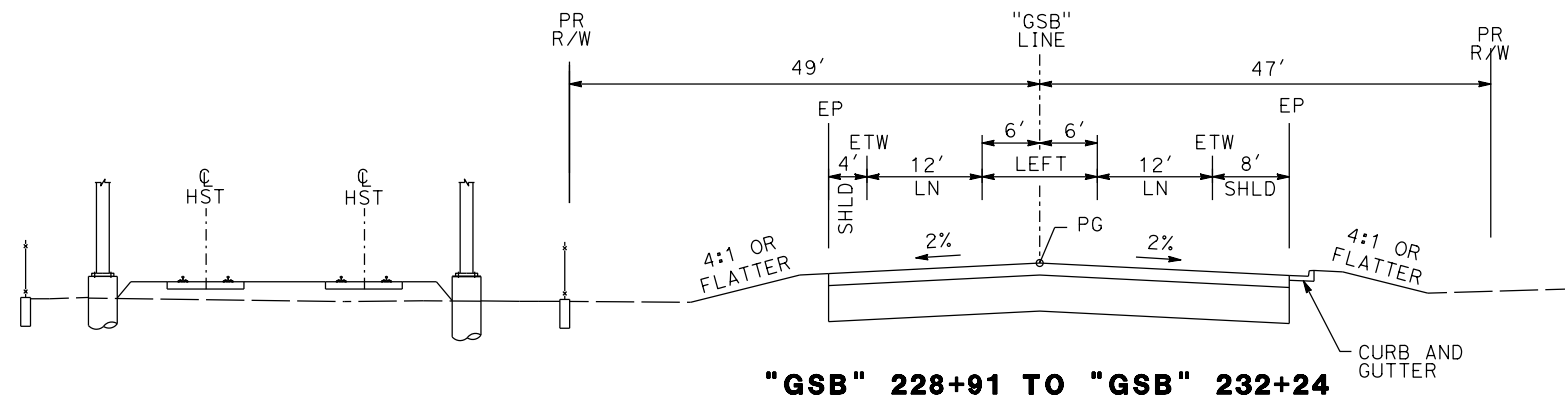
RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

CONTRACT NO.
HSR06-007
DRAWING NO.
X-8
SCALE
SHEET NO.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
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J. MATSUI-DRURY
DATE
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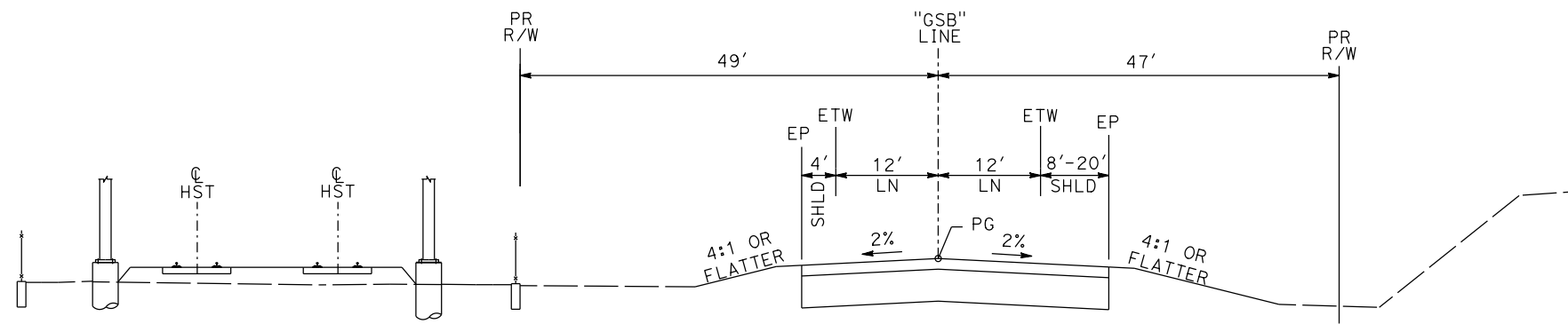
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SUBMITTAL

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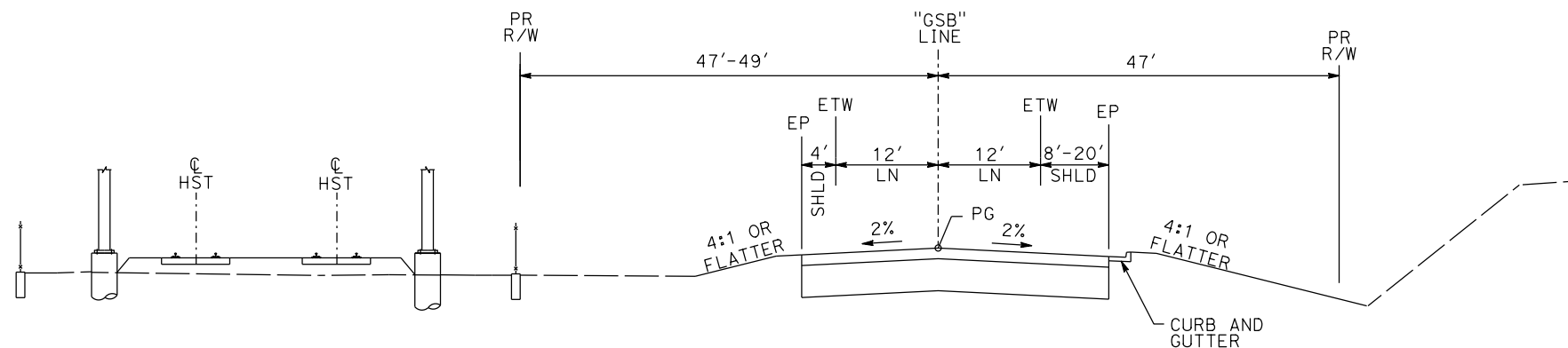


CALIFORNIA HIGH-SPEED TRAIN PROJECT
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GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

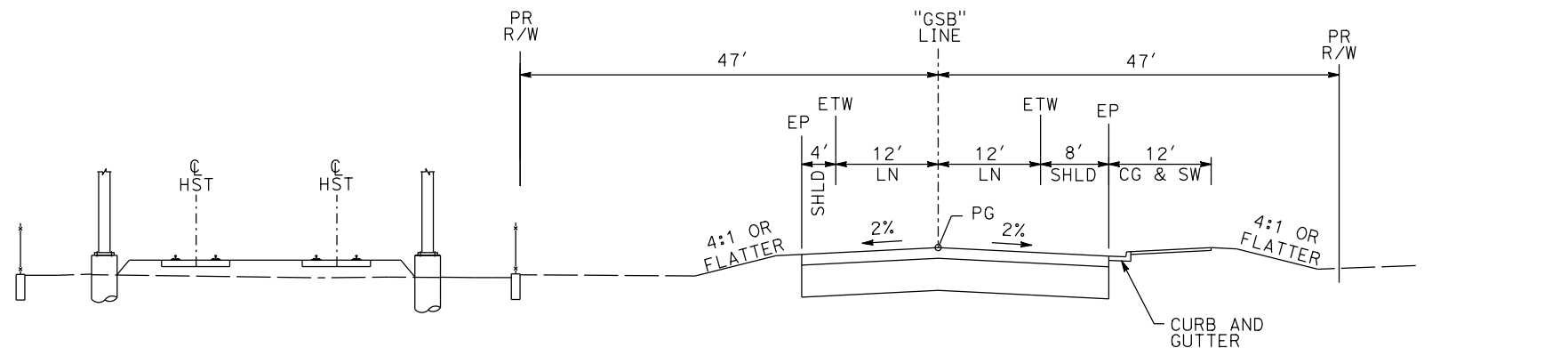
CONTRACT NO.	HSR06-007
DRAWING NO.	X-9
SCALE	
SHEET NO.	



"GSB" 236+37 TO "GSB" 239+13



"GSB" 239+13 TO "GSB" 249+22



"GSB" 249+22 TO "GSB" 254+26

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

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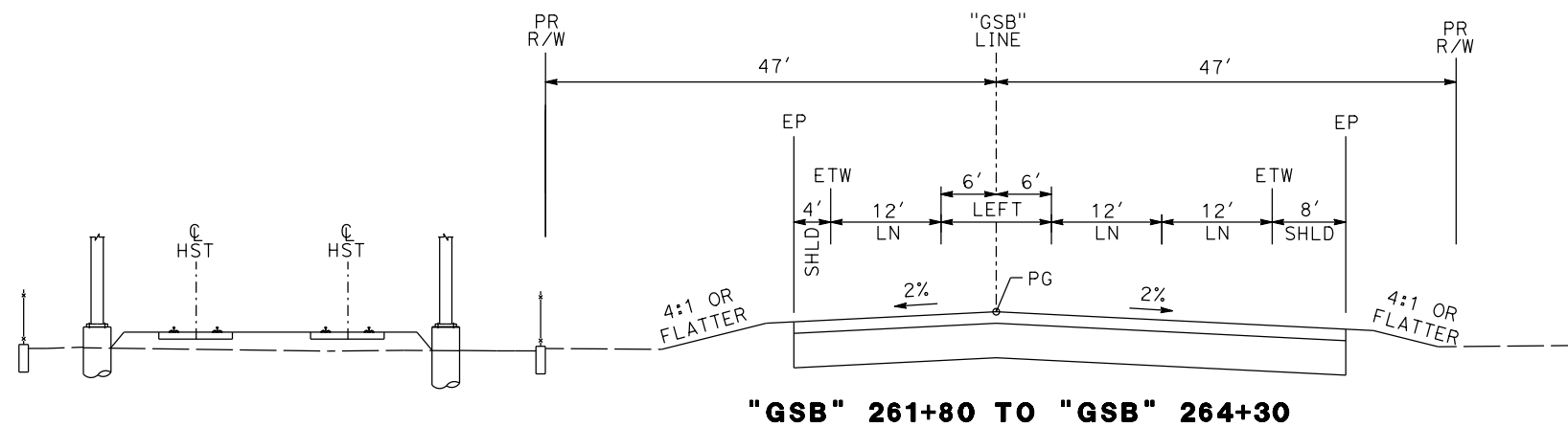
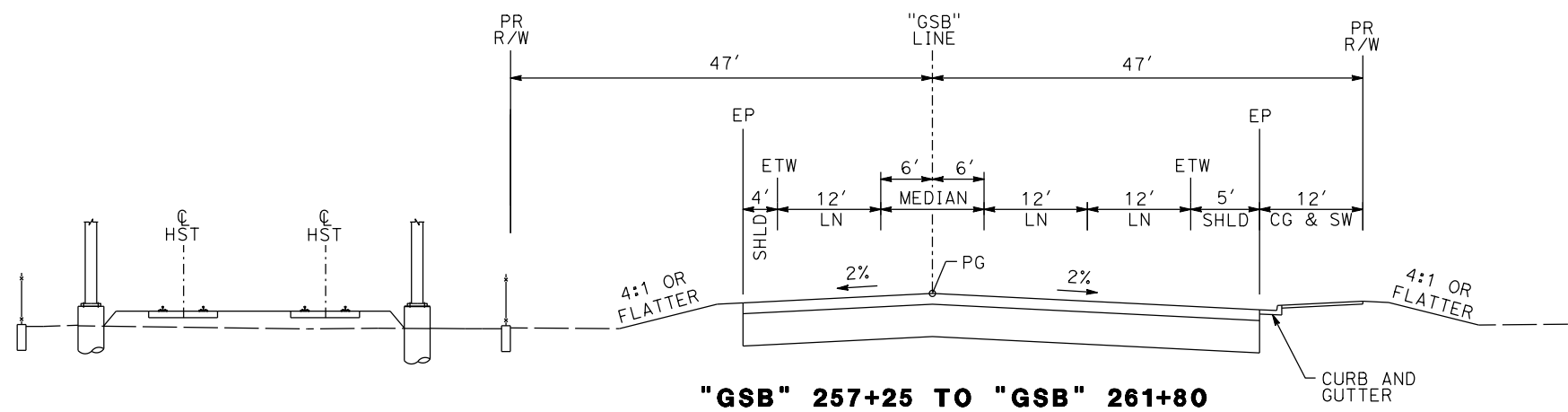
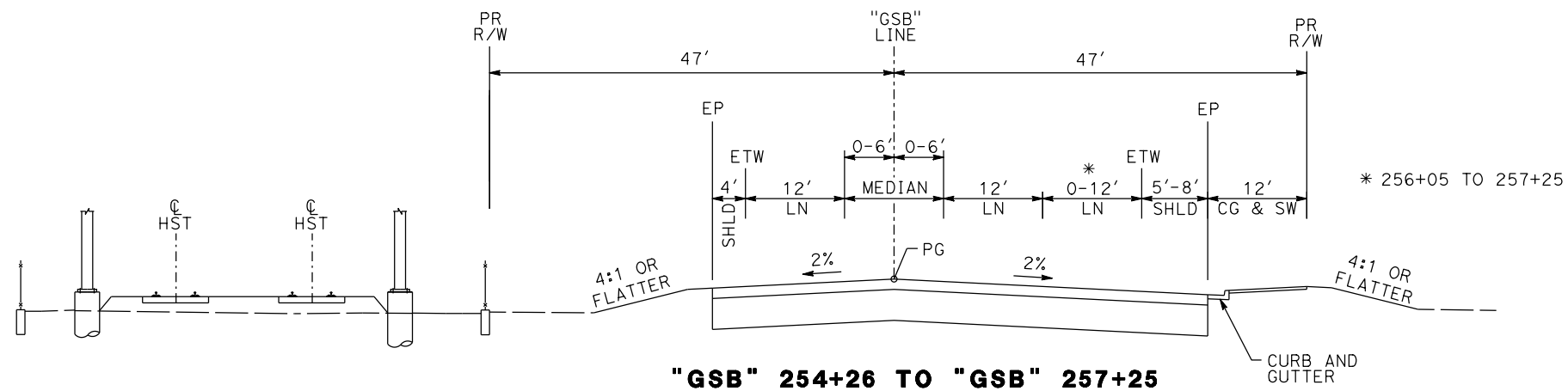
**RECORD SET
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SUBMITTAL**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
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TYPICAL SECTION**

CONTRACT NO. HSR06-007
DRAWING NO. X-10
SCALE
SHEET NO.



GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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J. MATSUI-DRURY
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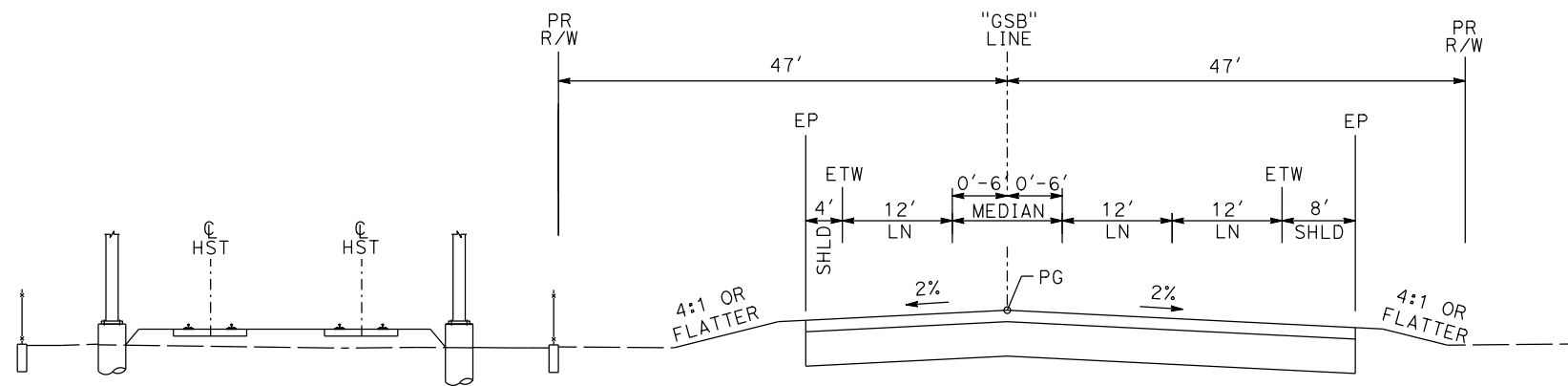
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15% DESIGN
SUBMITTAL

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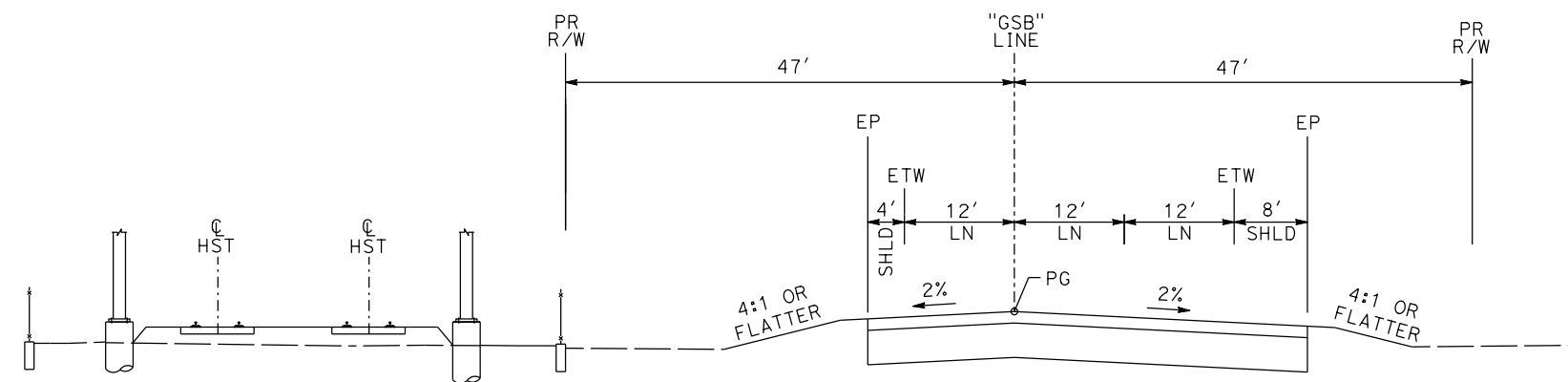


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

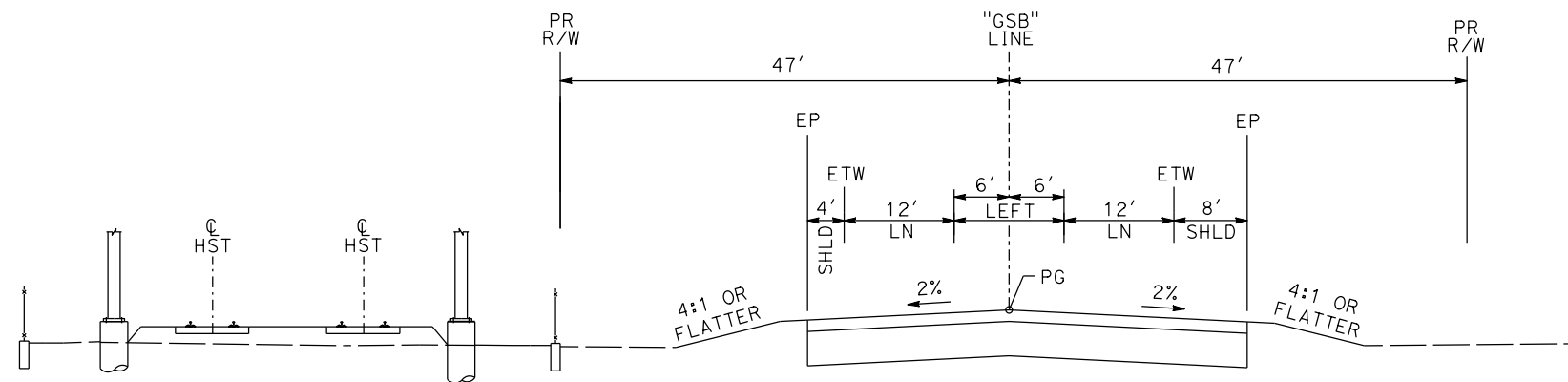
CONTRACT NO.
HSR06-007
DRAWING NO.
X-11
SCALE
SHEET NO.



"GSB" 264+30 TO "GSB" 268+49
 "GSB" 280+18 TO "GSB" 286+76



"GSB" 268+49 TO "GSB" 280+18



"GSB" 286+76 TO "GSB" 289+26

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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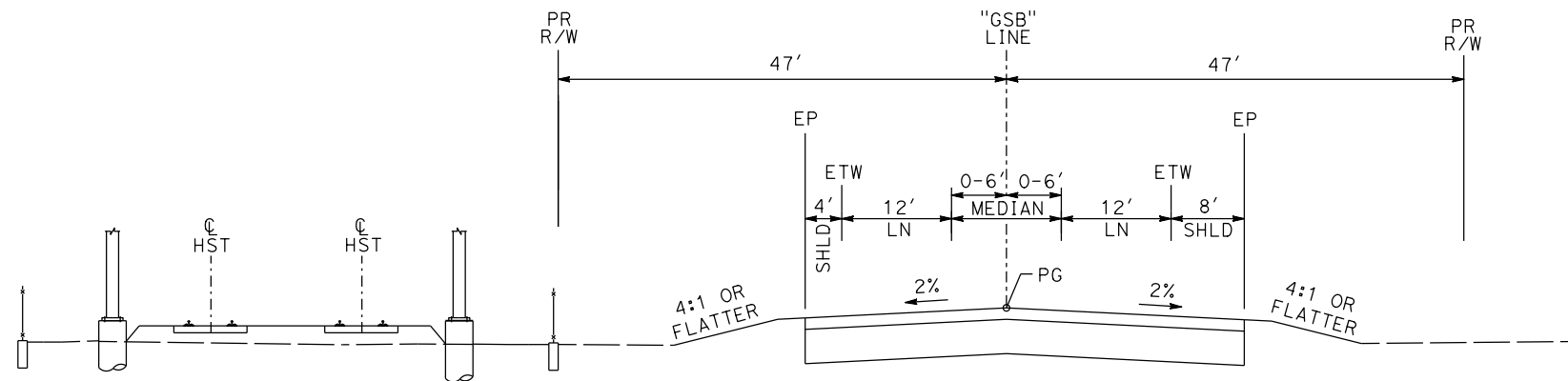
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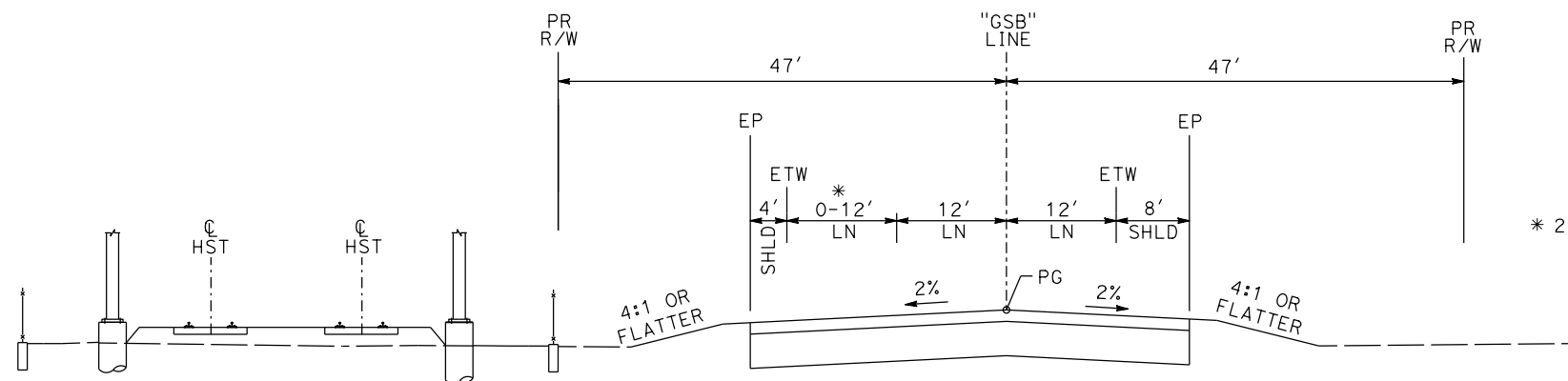


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

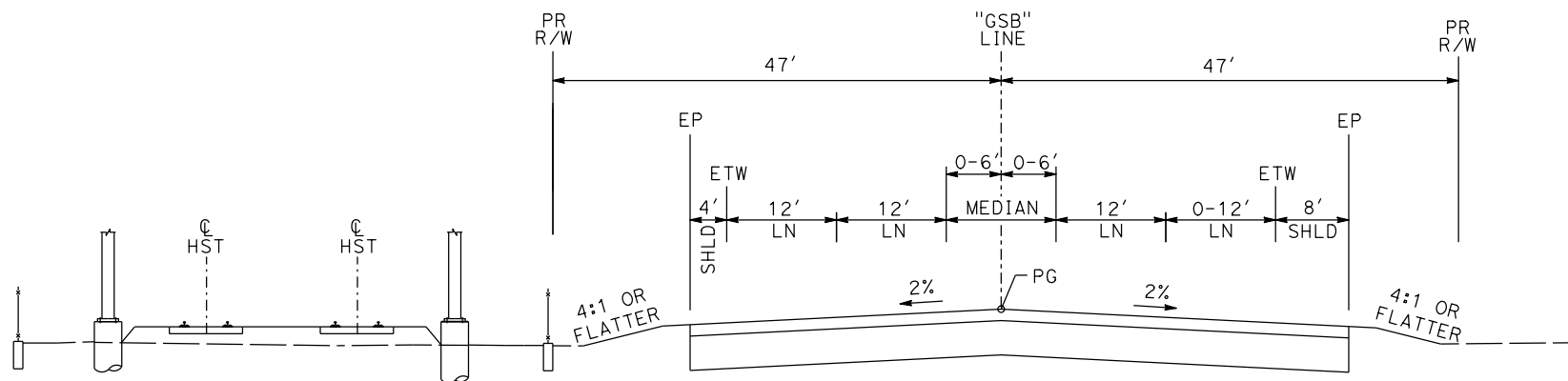
CONTRACT NO.
HSR06-007
 DRAWING NO.
X-12
 SCALE
 SHEET NO.



"GSB" 289+26 TO "GSB" 293+46



"GSB" 293+46 TO "GSB" 302+92



"GSB" 302+92 TO "GSB" 305+92

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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J. MATSUI-DRURY
DATE
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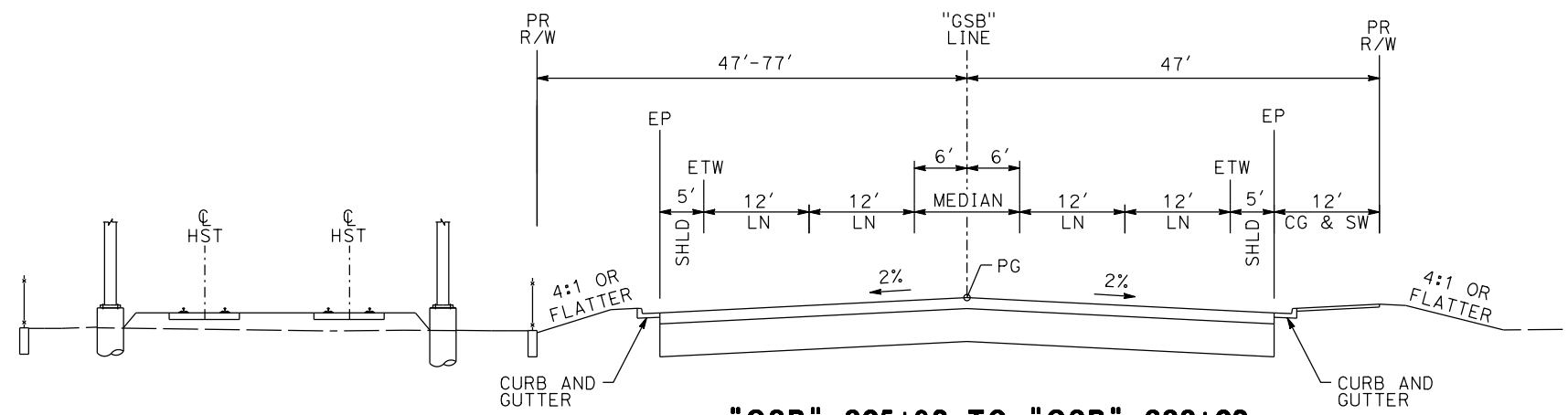
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SUBMITTAL

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CONSTRUCTION

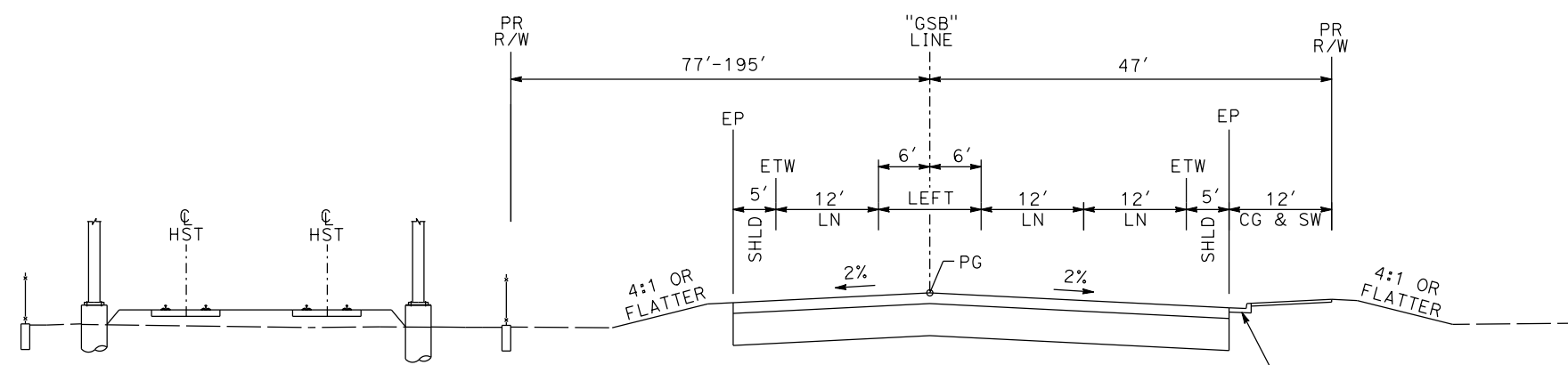


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

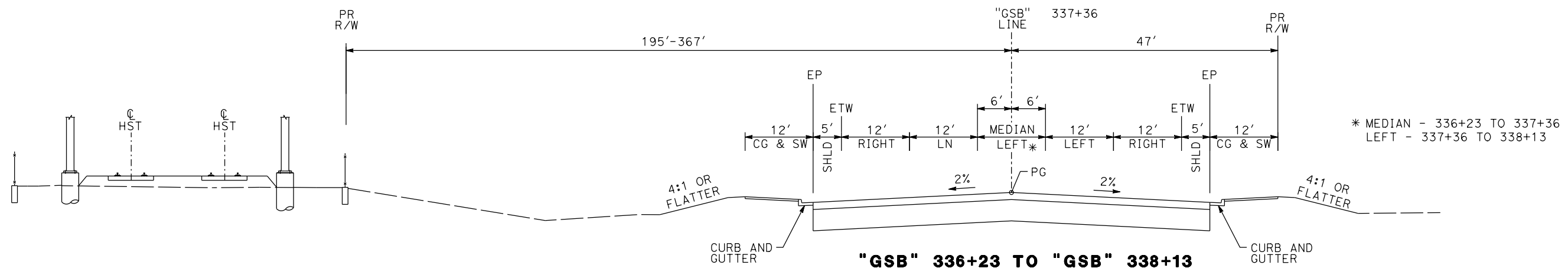
CONTRACT NO.	HSR06-007
DRAWING NO.	X-13
SCALE	
SHEET NO.	



"GSB" 305+92 TO "GSB" 333+02



"GSB" 333+02 TO "GSB" 336+23



"GSB" 336+23 TO "GSB" 338+13

GOLDEN STATE BOULEVARD

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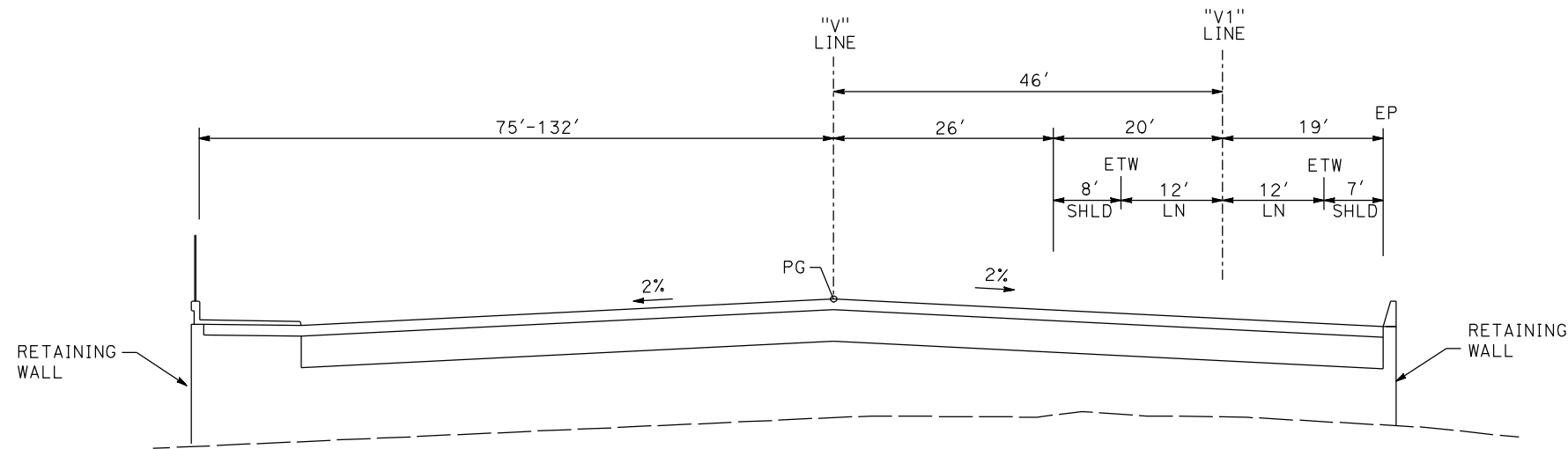
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SUBMITTAL

NOT FOR
CONSTRUCTION

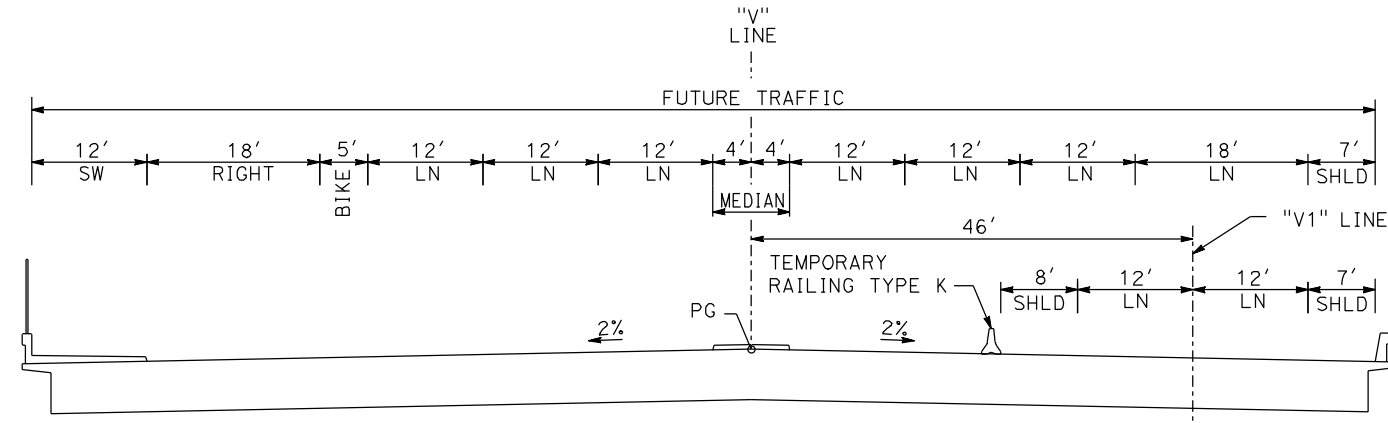


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

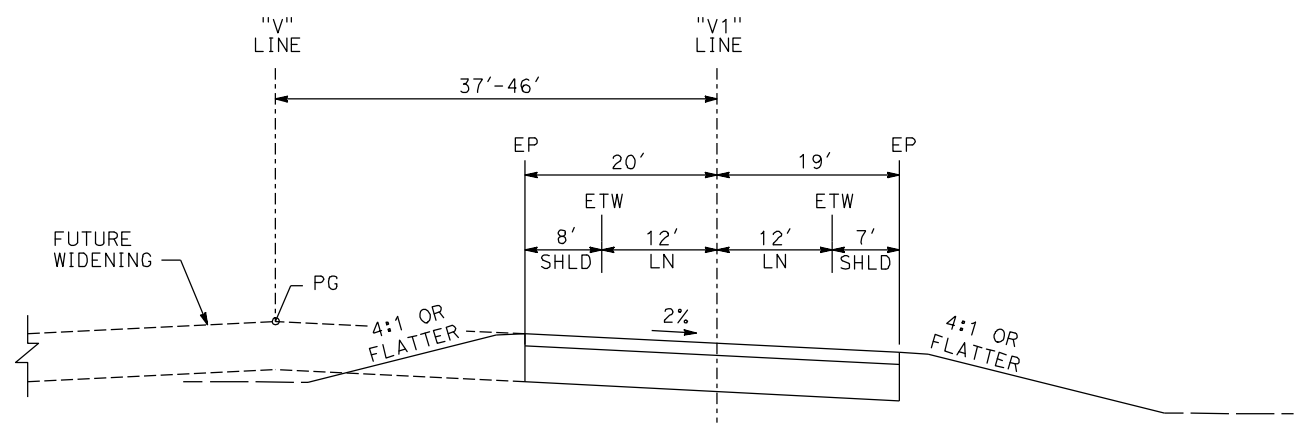
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HSR06-007
DRAWING NO.
X-14
SCALE
SHEET NO.



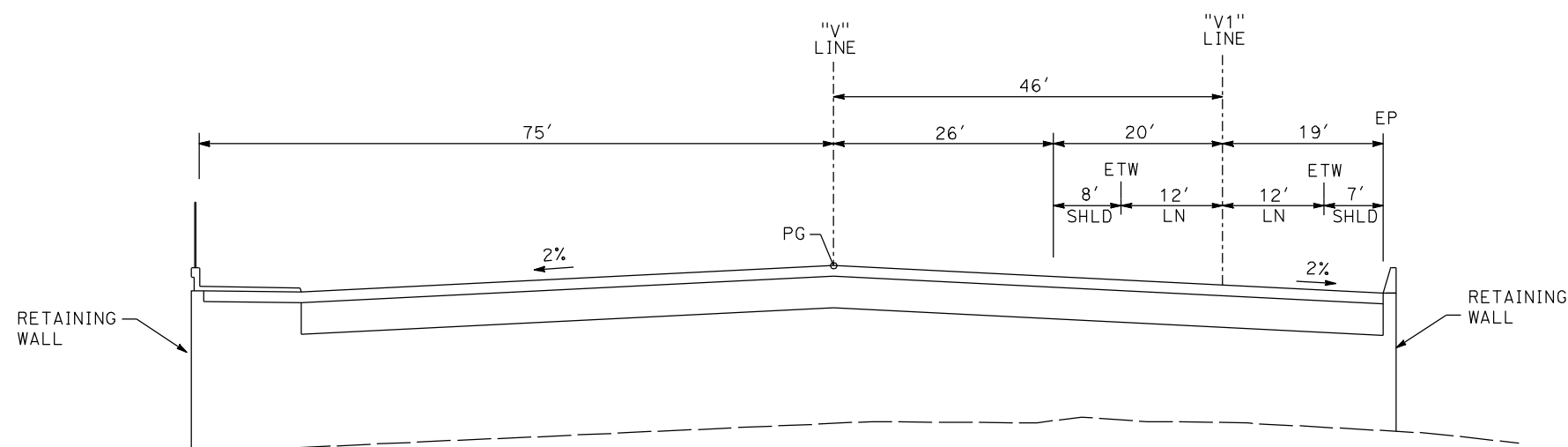
"V" 105+00 TO "V" 105+63



"V" 105+63 TO "V" 109+79



"V" 110+32 TO "V" 122+35



"V" 109+79 TO "V" 110+32

VETERANS BLVD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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DRAWN BY
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IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
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SUBMITTAL**

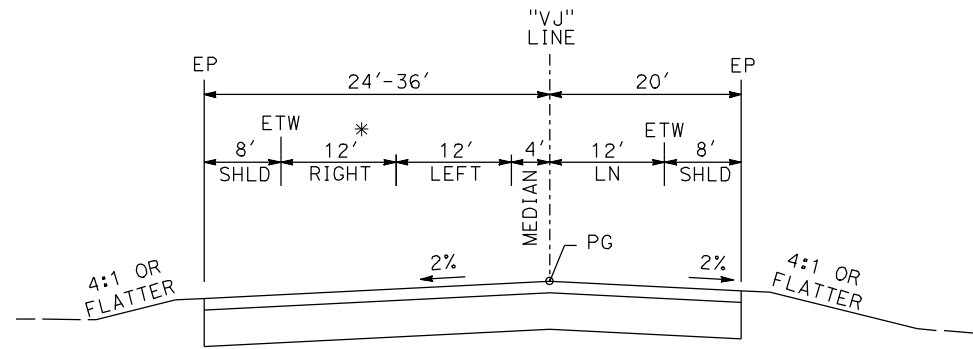
**NOT FOR
CONSTRUCTION**



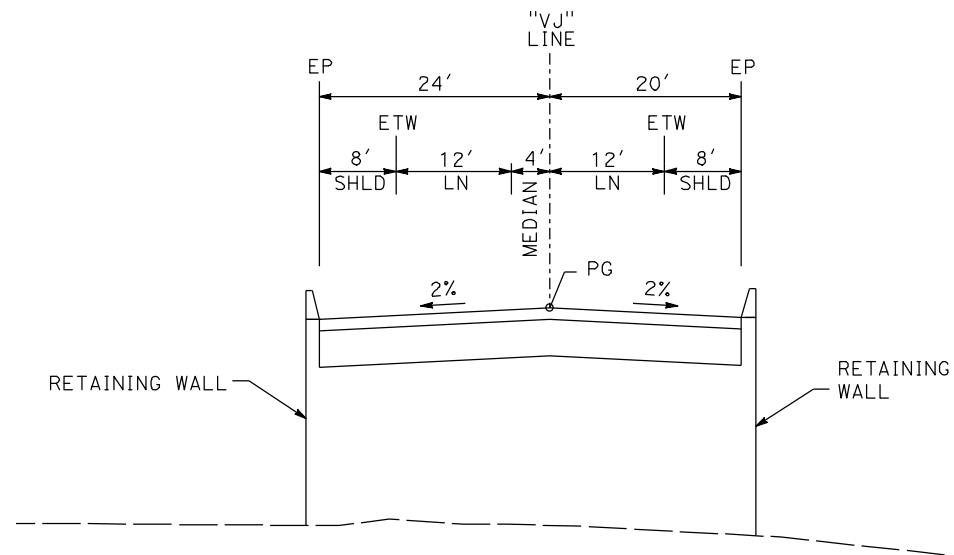
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-15
SCALE
SHEET NO.

* 0'-12' - FROM 12+61 TO 13+21

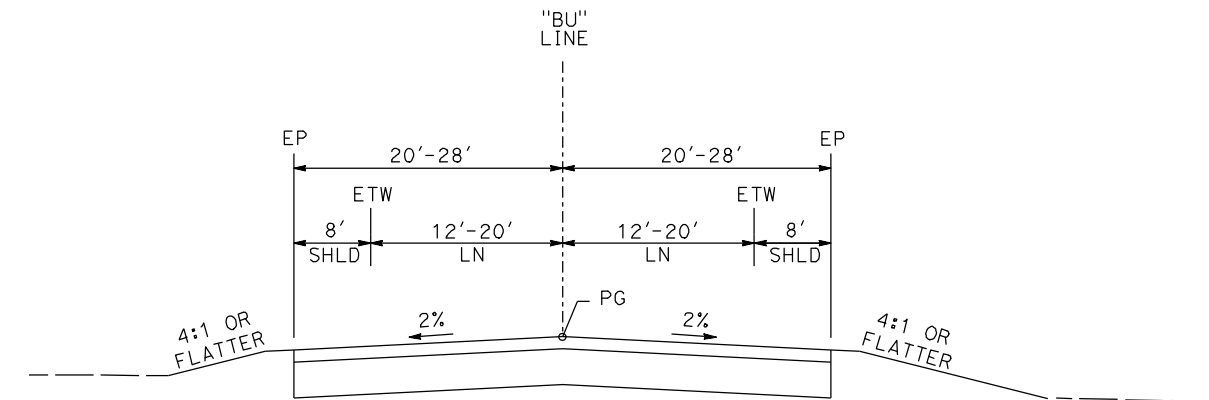


"VJ" 10+44 TO "VJ" 13+21

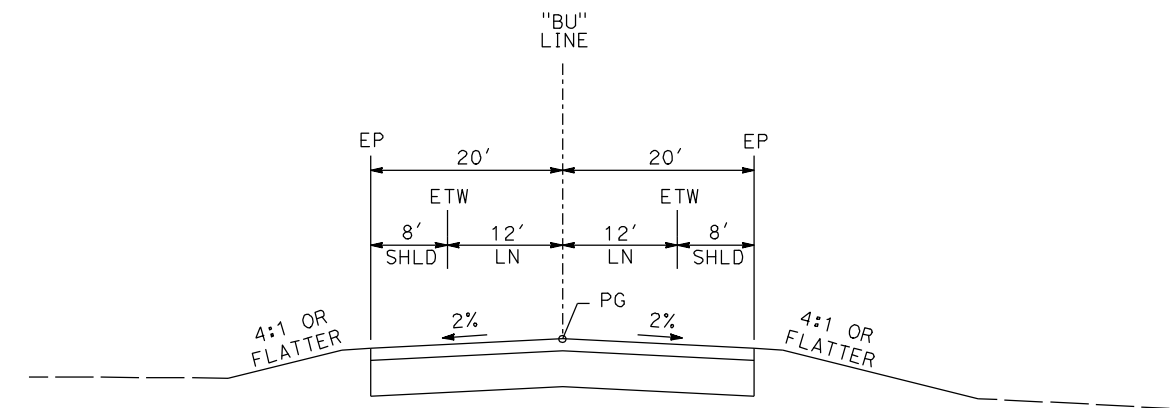


"VJ" 13+21 TO "VJ" 18+37

LOOP - VETERANS BLVD



"BU" 110+00 TO "BU" 113+67



"BU" 113+67 TO "BU" 132+26

BULLARD AVE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

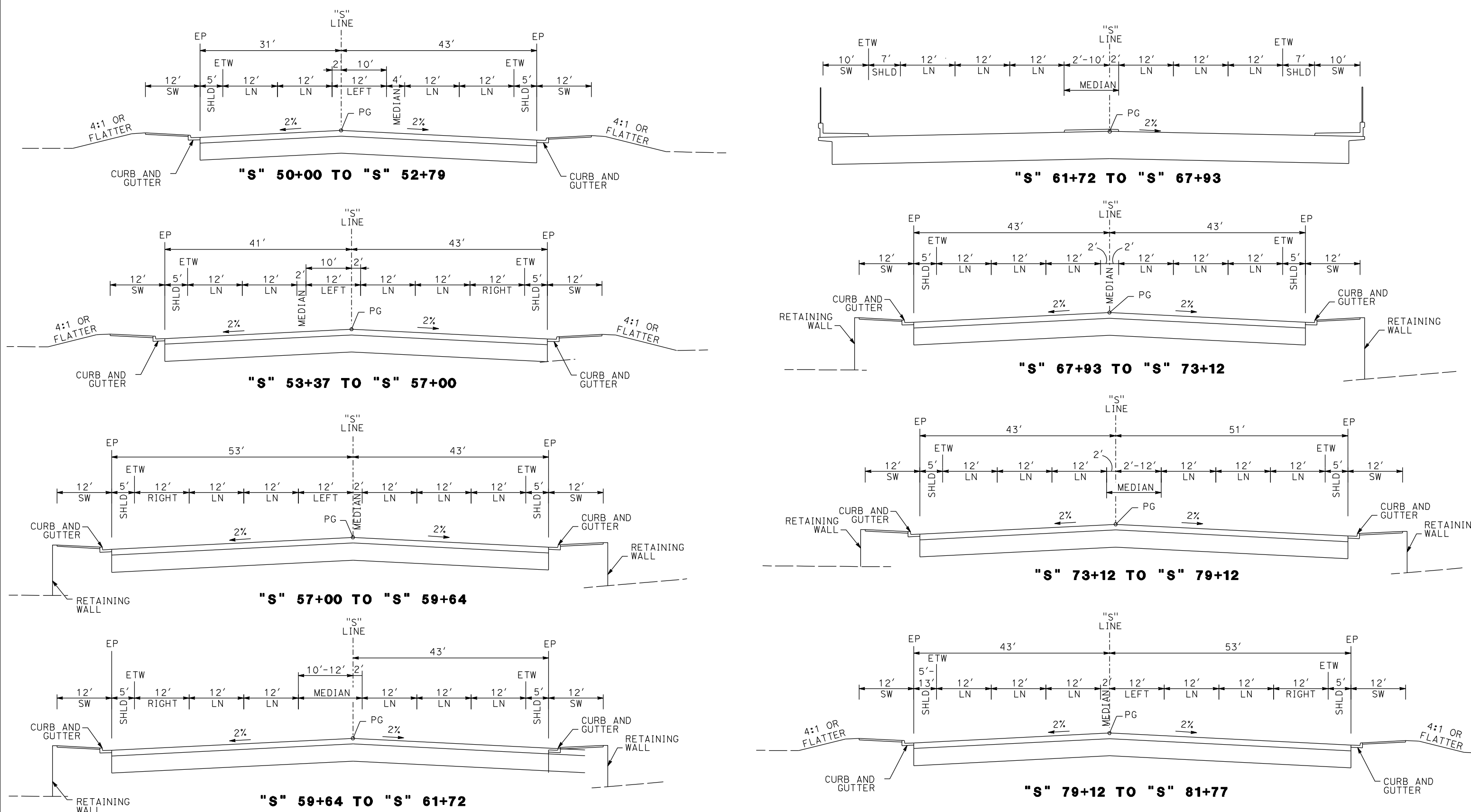
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-16
SCALE
SHEET NO.



SHAW AVE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

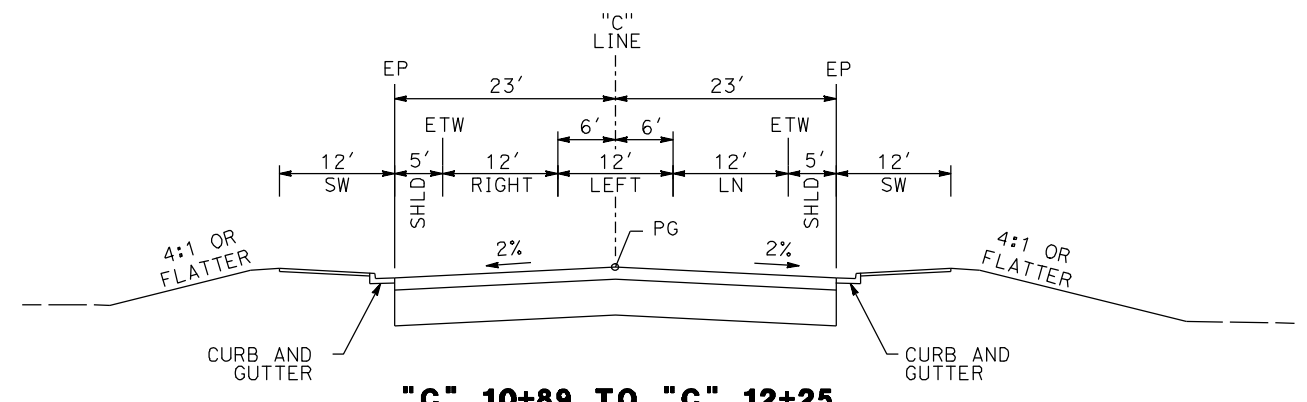
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

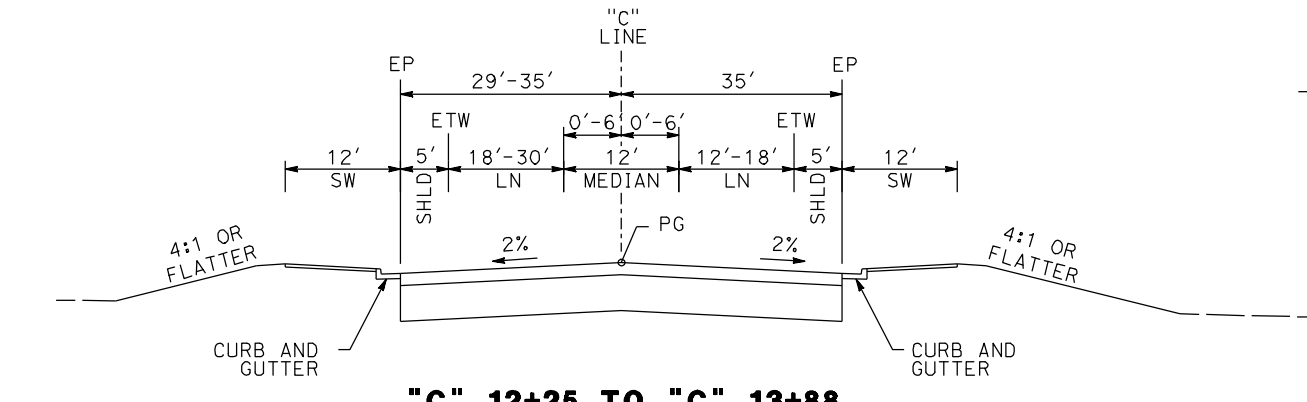


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

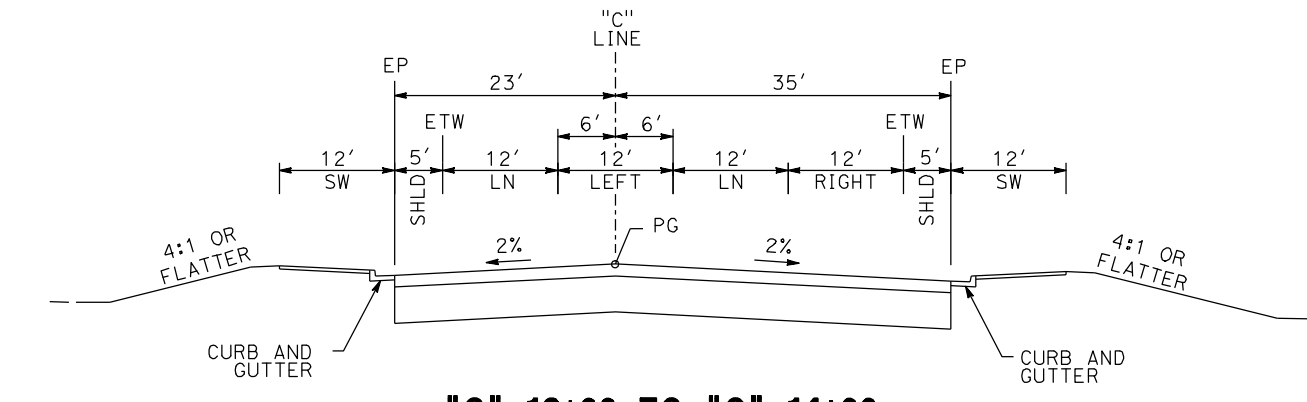
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HSR06-007
DRAWING NO.
X-17
SCALE
SHEET NO.



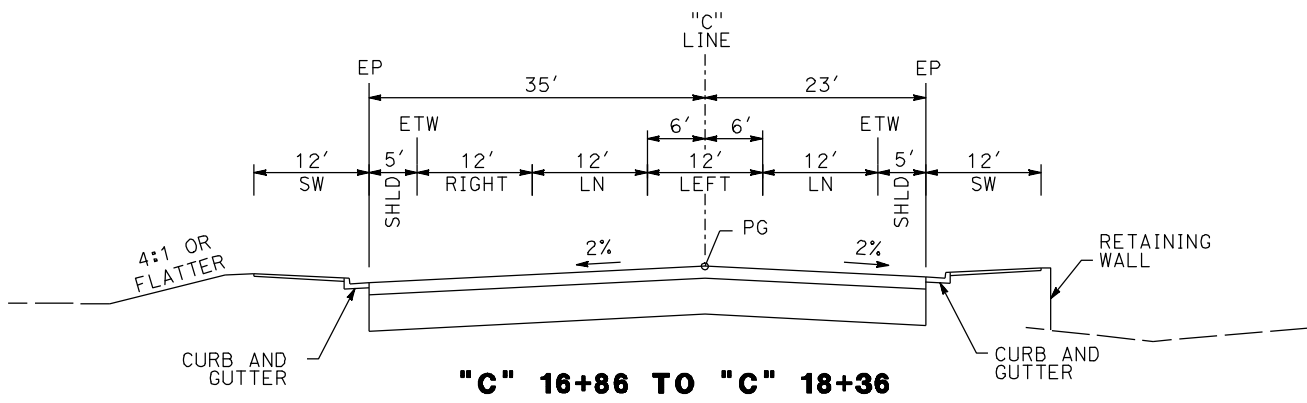
"C" 10+89 TO "C" 12+25



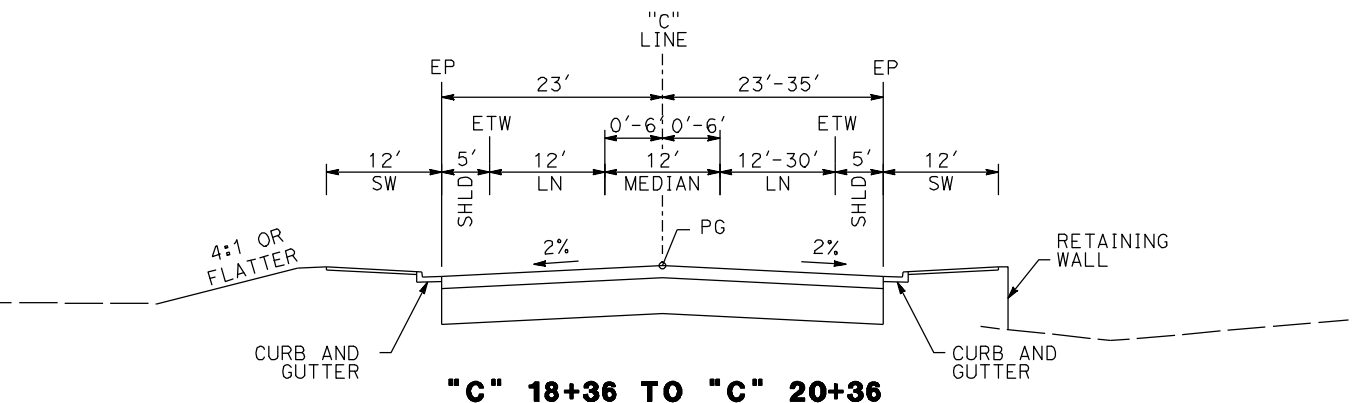
"C" 12+25 TO "C" 13+88



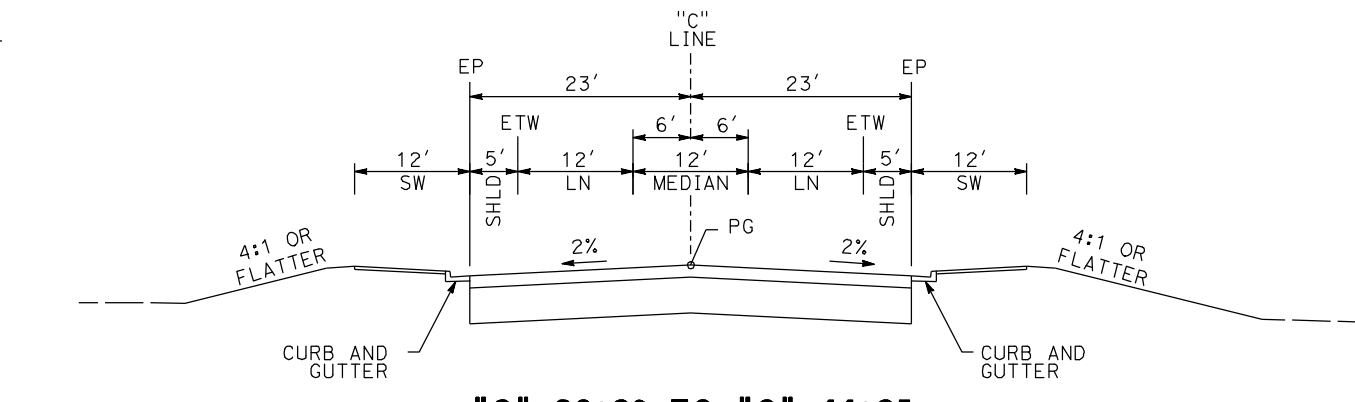
"C" 13+88 TO "C" 14+99



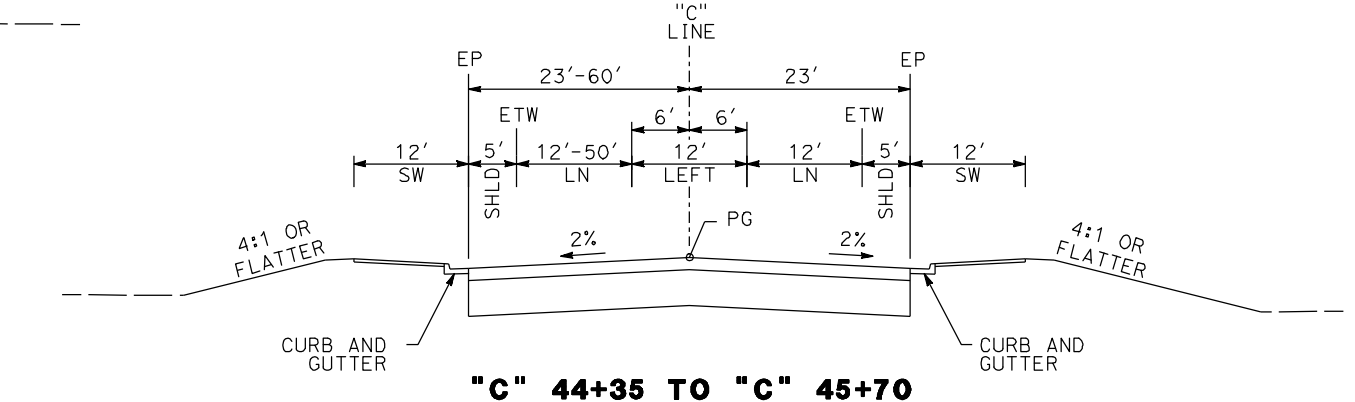
"C" 16+86 TO "C" 18+36



"C" 18+36 TO "C" 20+36



"C" 20+36 TO "C" 44+35



"C" 44+35 TO "C" 45+70

CORNELIA AVE & SANTA ANA AVE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

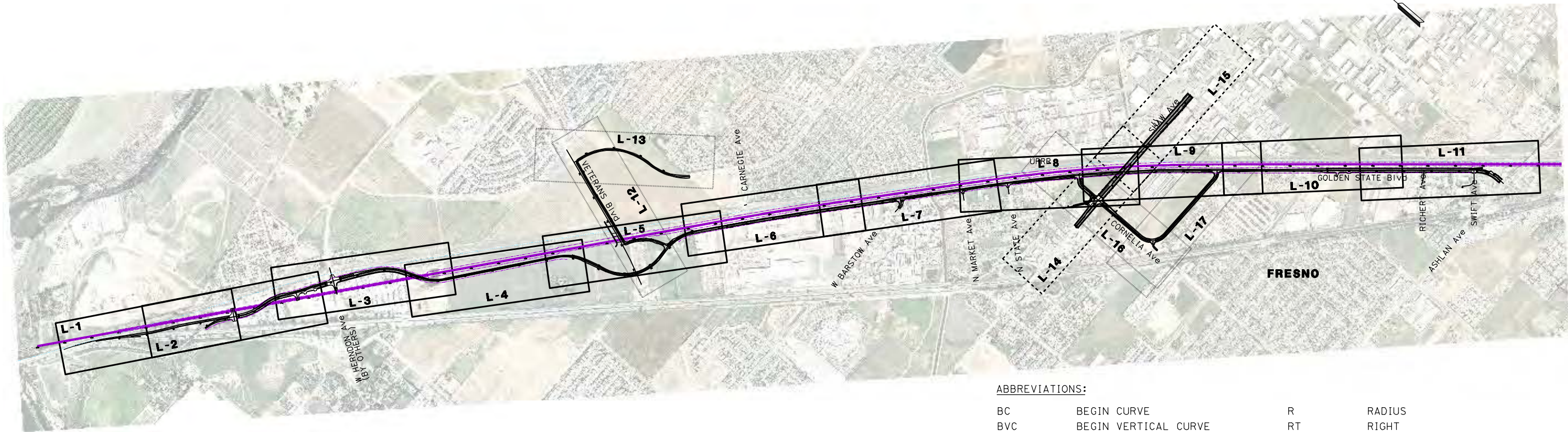
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
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GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-18
SCALE
SHEET NO.



ABBREVIATIONS:

BC	BEGIN CURVE	R	RADIUS
BVC	BEGIN VERTICAL CURVE	RT	RIGHT
CG	CURB AND GUTTER	R/W	RIGHT OF WAY
CL	CENTERLINE	SB	SOUTHBOUND
EC	END CURVE	SHLD	SHOULDER
ELEV	ELEVATION	SW	SIDEWALK
EP	EDGE OF PAVEMENT	T	TANGENT
ES	EDGE OF SHOULDER	UPRR	UNION PACIFIC RAILROAD
ETW	EDGE OF TRAVELLED WAY	VAR	VARIES
EVC	END VERTICAL CURVE		
GSB	GOLDEN STATE BLVD		
HST	HIGH SPEED TRAIN		
L	LENGTH		
LN	LANE		
LT	LEFT		
NB	NORTHBOUND		
OG	ORIGINAL GROUND		
PCC	POINT OF COMPOUND CURVE		
PI	POINT OF INTERSECTION		
POB	POINT OF BEGINNING		
POC	POINT ON CURVE		
POE	POINT OF END		
POT	POINT ON TANGENT		
PG	PROFILE GRADE		
PR	PROPOSED		
PRC	POINT OF REVERSE CURVE		
PVI	POINT OF VERTICAL INTERSECTION		
PRVC	POINT OF REVERSE VERTICAL CURVE		

LEGEND:

- EXIST / PROPOSED RIGHT OF WAY
- HIGH SPEED TRAIN TRACK CENTERLINES
- P12 PETROLEUM GAS LINE
- RETAINING WALL

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

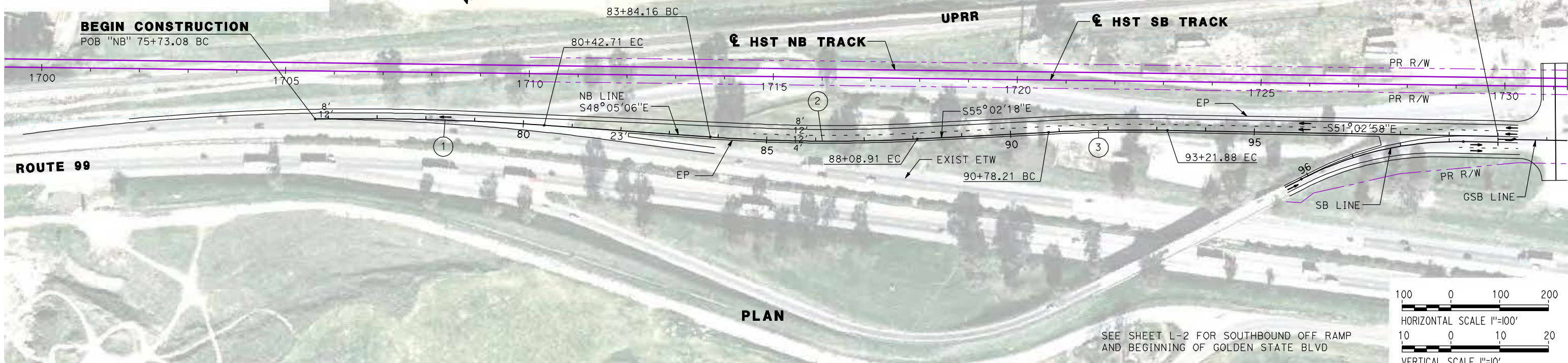
**NOT FOR
CONSTRUCTION**



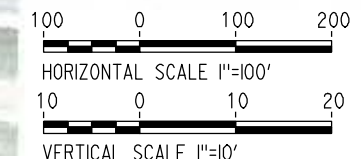
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
KEYMAP**

CONTRACT NO.
HSR06-007
DRAWING NO.
K-1
SCALE
NTS
SHEET NO.

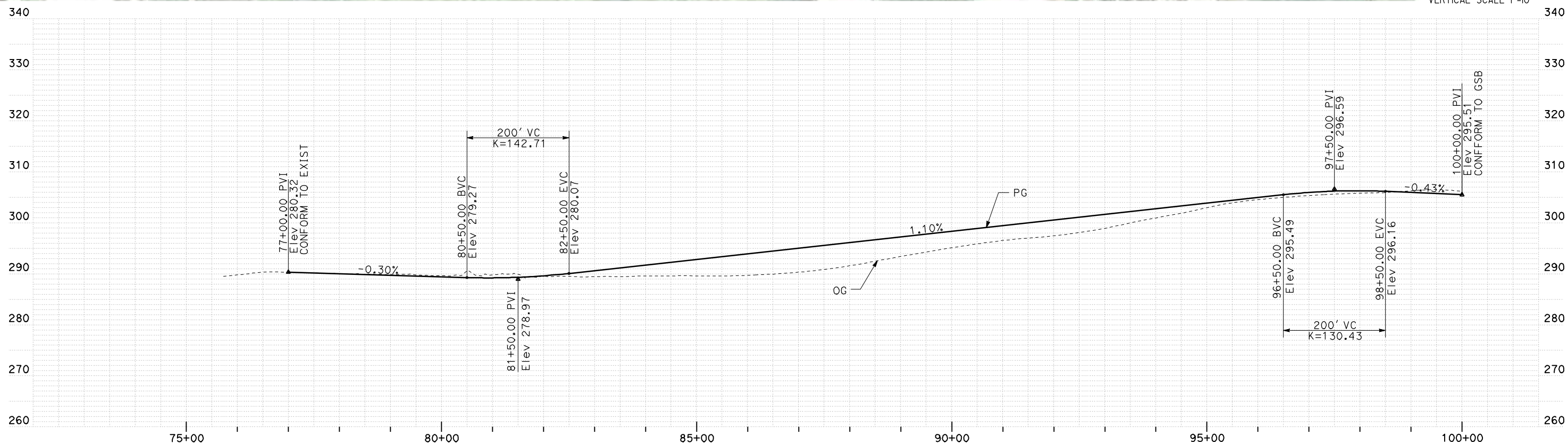
CURVE DATA					
No.	LINE	R	Δ	L	T
①	NB	5500.00'	04°53'32"	469.63'	234.69'
②	NB	3500.00'	06°57'12"	424.76'	212.64'
③	NB	3500.00'	03°59'20"	243.67'	121.88'



PLAN



SEE SHEET L-2 FOR SOUTHBOUND OFF RAMP AND BEGINNING OF GOLDEN STATE BLVD



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

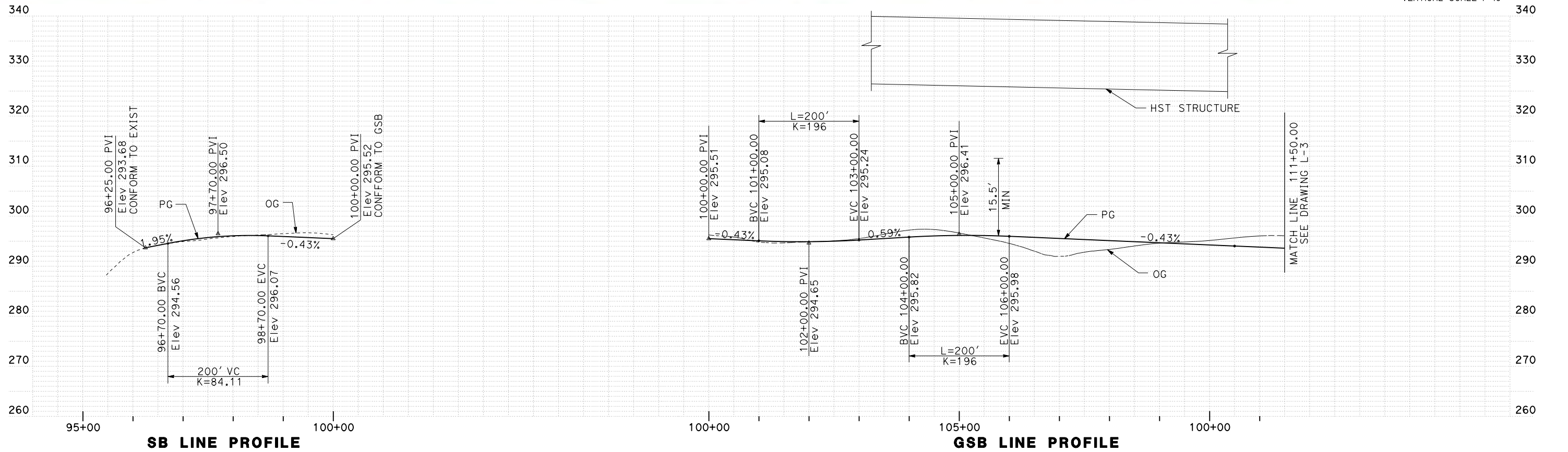
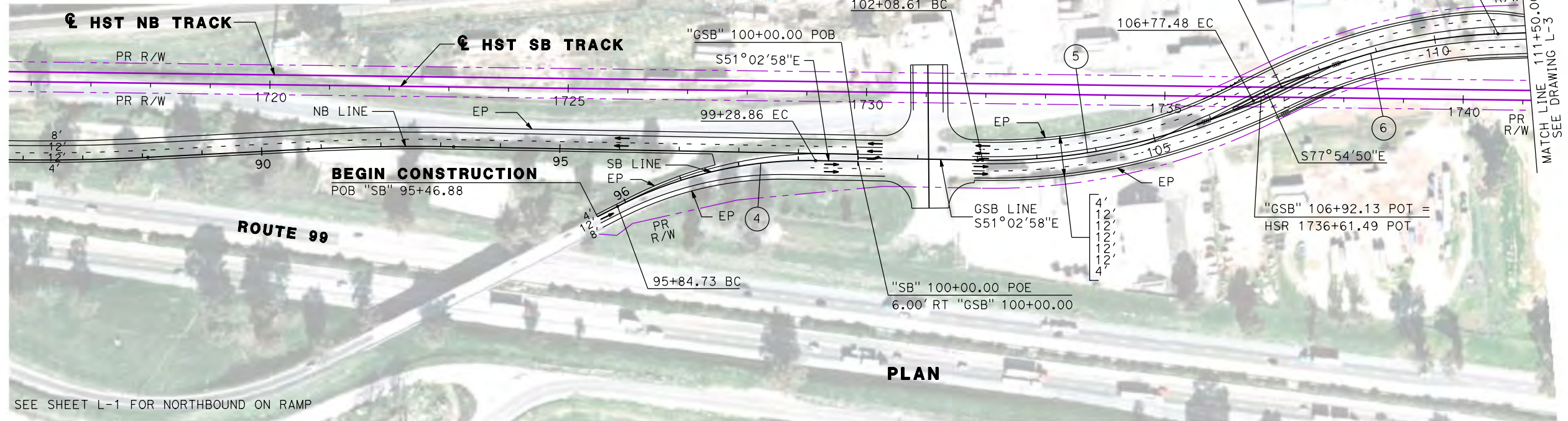
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"NB" 75+73 TO "NB" 100+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-1
SCALE
AS SHOWN
SHEET NO.

CURVE DATA					
No.	LINE	R	Δ	L	T
④	SB	700.00'	28°10'05"	344.14'	175.62'
⑤	GSB	1000.00'	26°51'52"	468.87'	238.83'
⑥	GSB	900.00'	23°57'18"	376.29'	190.93'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

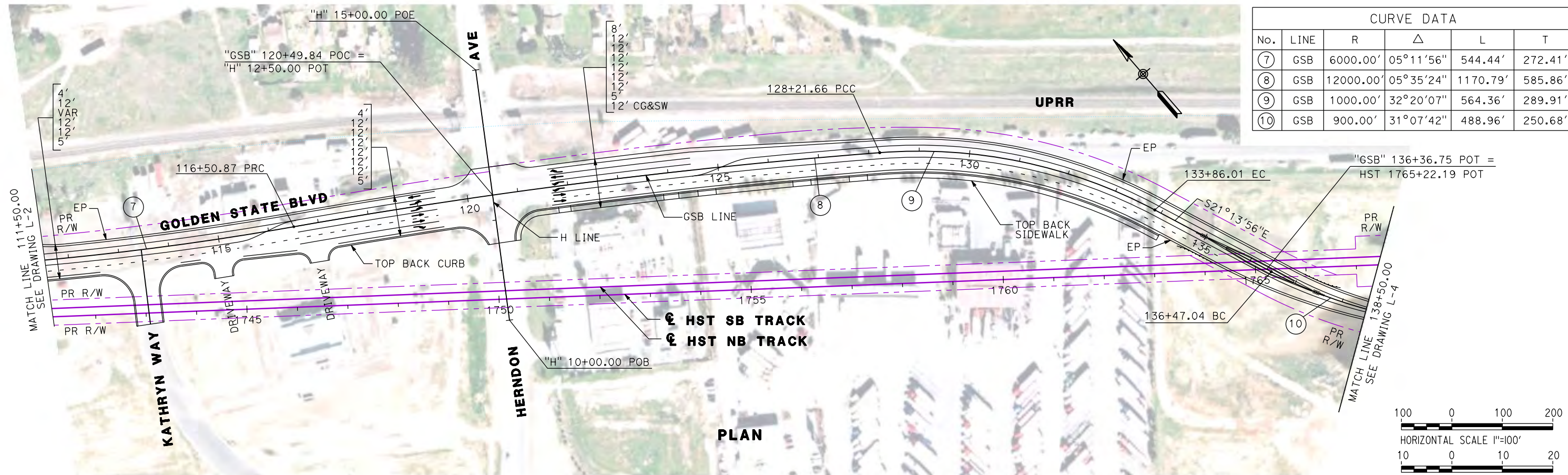
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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

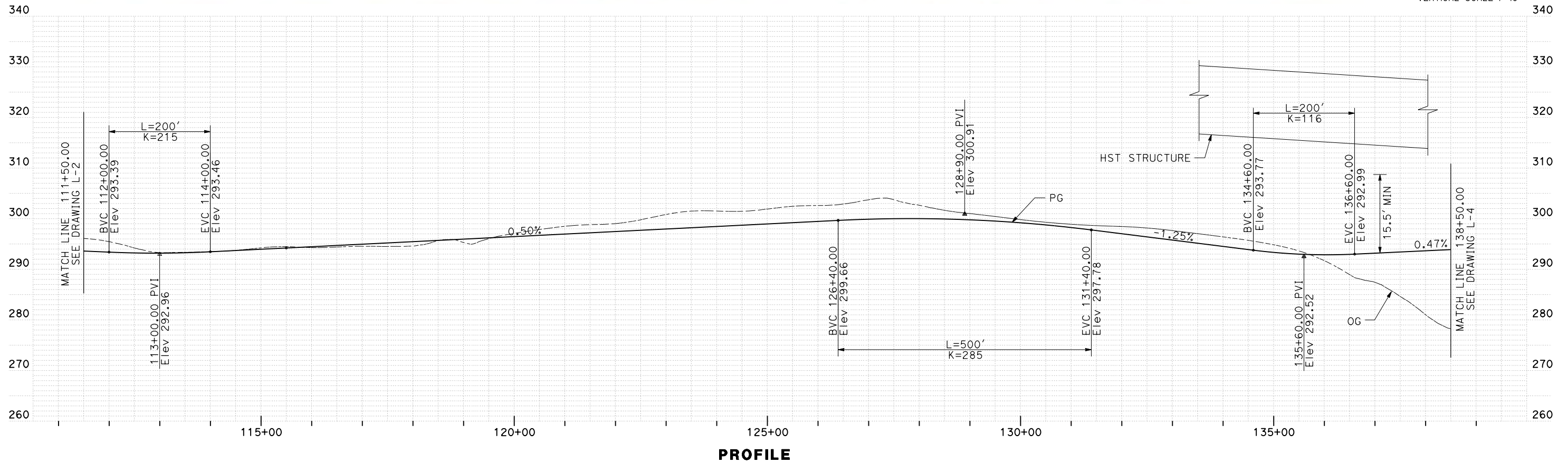
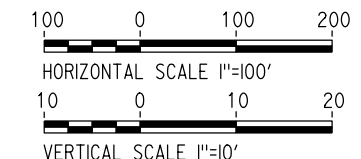


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 100+00 TO "GSB" 111+50

CONTRACT NO.
HSR06-007
DRAWING NO.
L-2
SCALE
AS SHOWN
SHEET NO.



CURVE DATA					
No.	LINE	R	Δ	L	T
⑦	GSB	6000.00'	05°11'56"	544.44'	272.41'
⑧	GSB	12000.00'	05°35'24"	1170.79'	585.86'
⑨	GSB	1000.00'	32°20'07"	564.36'	289.91'
⑩	GSB	900.00'	31°07'42"	488.96'	250.68'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

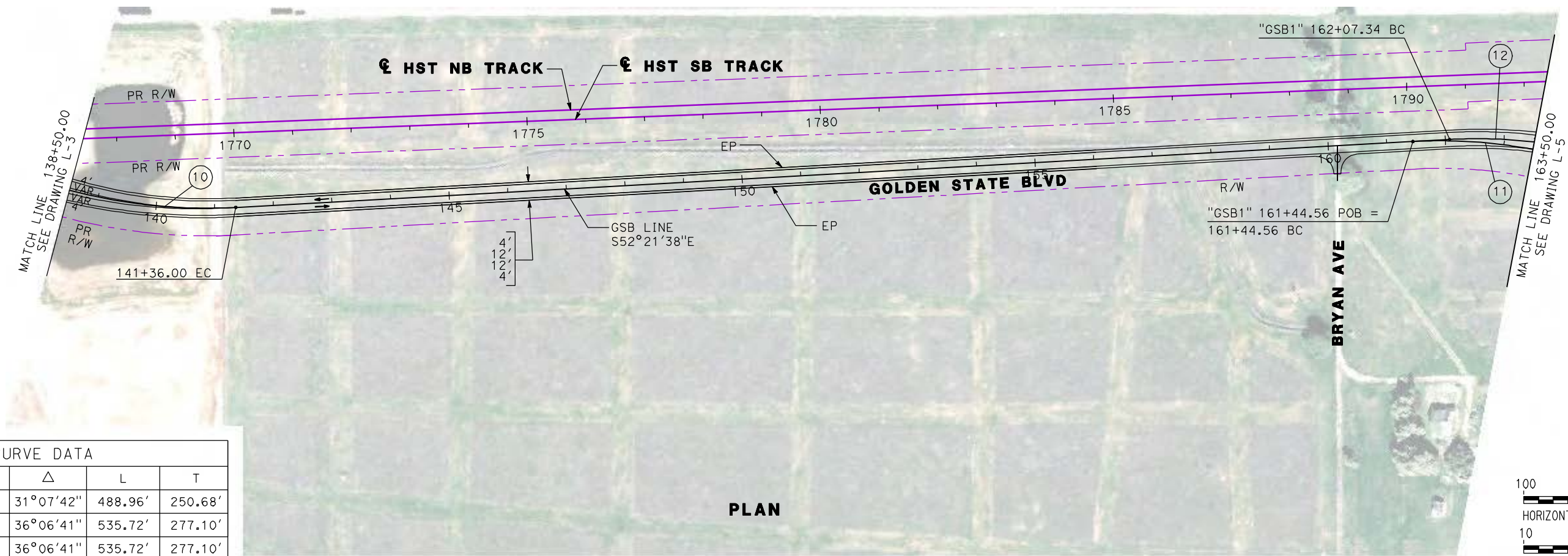
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 111+50 TO "GSB" 138+50

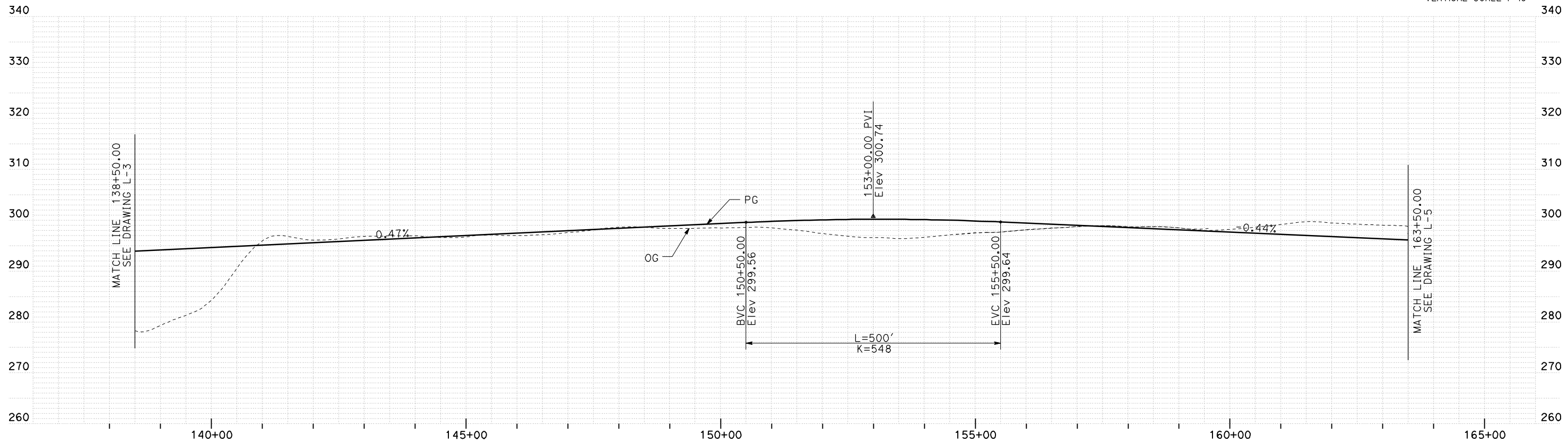
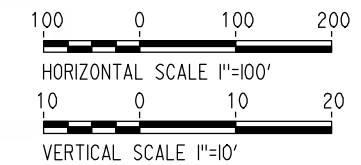
CONTRACT NO.
HSR06-007
DRAWING NO.
L-3
SCALE
AS SHOWN
SHEET NO.



PLAN

CURVE DATA

No.	LINE	R	Δ	L	T
10	GSB	900.00'	31°07'42"	488.96'	250.68'
11	GSB	850.00'	36°06'41"	535.72'	277.10'
12	GSB1	850.00'	36°06'41"	535.72'	277.10'



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

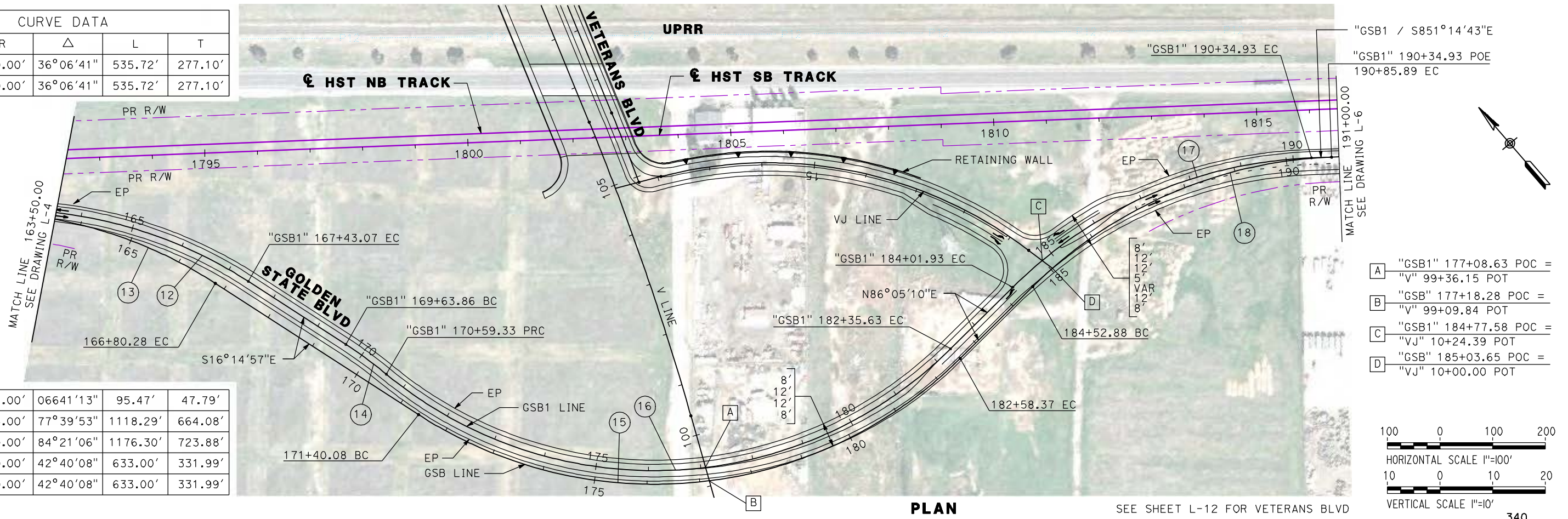


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 138+50 TO "GSB" 163+50**

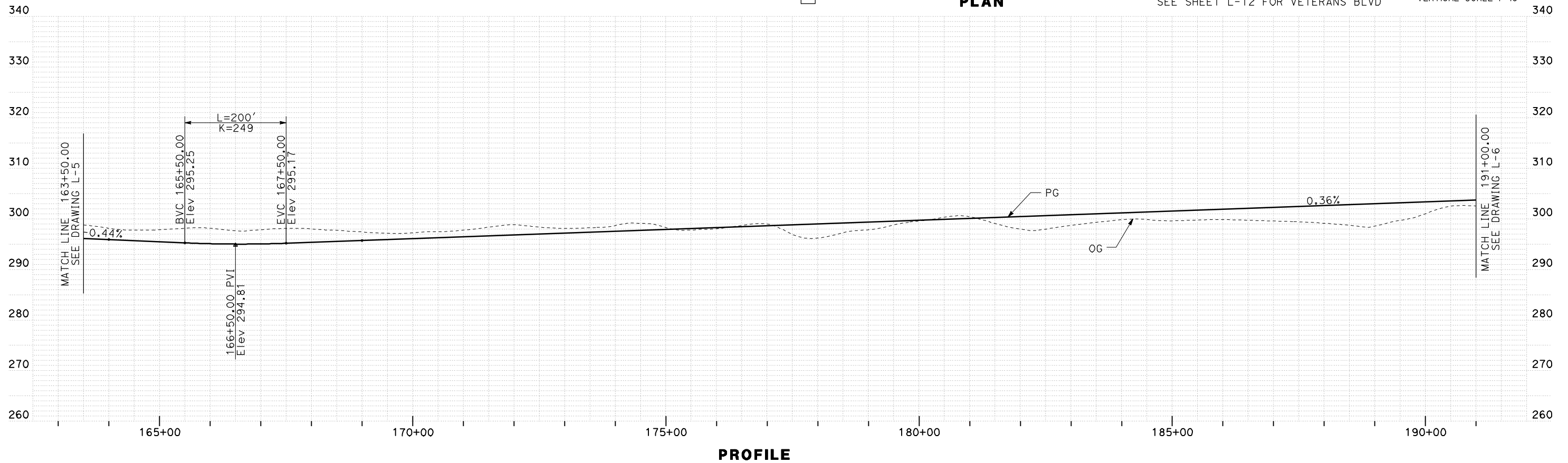
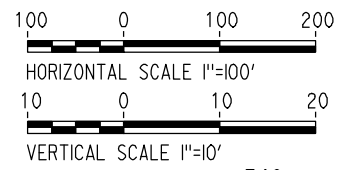
CONTRACT NO.
HSR06-007
DRAWING NO.
L-4
SCALE
AS SHOWN
SHEET NO.

CURVE DATA					
No.	LINE	R	Δ	L	T
12	GSB1	850.00'	36°06'41"	535.72'	277.10'
13	GSB	850.00'	36°06'41"	535.72'	277.10'

14	GSB1	818.00'	06641'13"	95.47'	47.79'
15	GSB	825.00'	77°39'53"	1118.29'	664.08'
16	GSB1	799.00'	84°21'06"	1176.30'	723.88'
17	GSB1	850.00'	42°40'08"	633.00'	331.99'
18	GSB	850.00'	42°40'08"	633.00'	331.99'



- A "GSB1" 177+08.63 POC = "V" 99+36.15 POT
- B "GSB" 177+18.28 POC = "V" 99+09.84 POT
- C "GSB1" 184+77.58 POC = "VJ" 10+24.39 POT
- D "GSB" 185+03.65 POC = "VJ" 10+00.00 POT



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

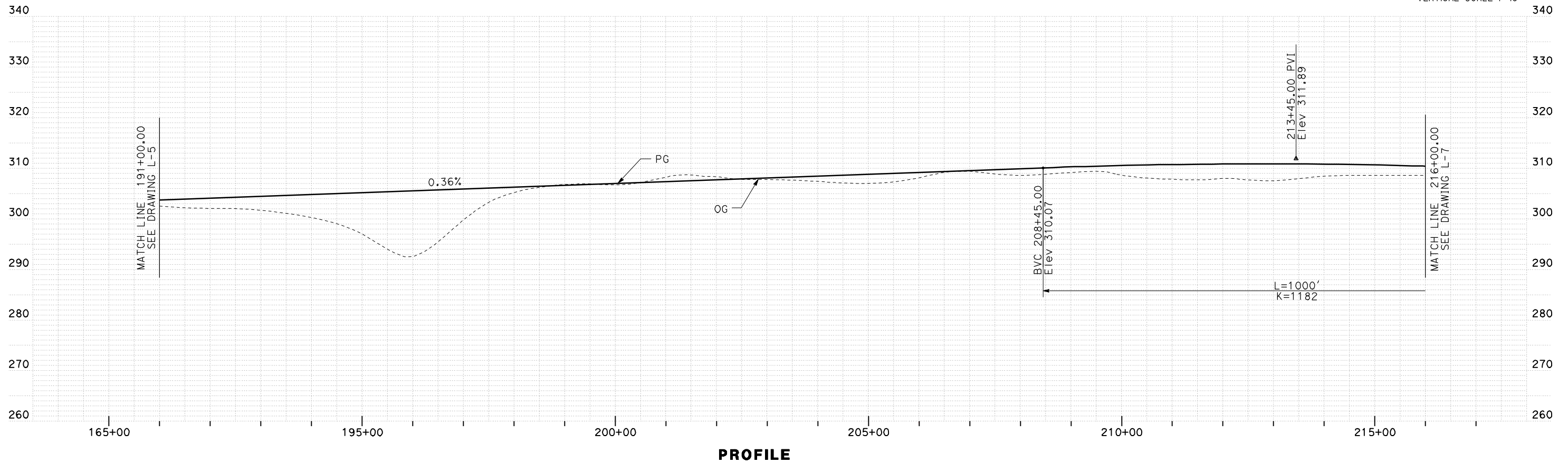
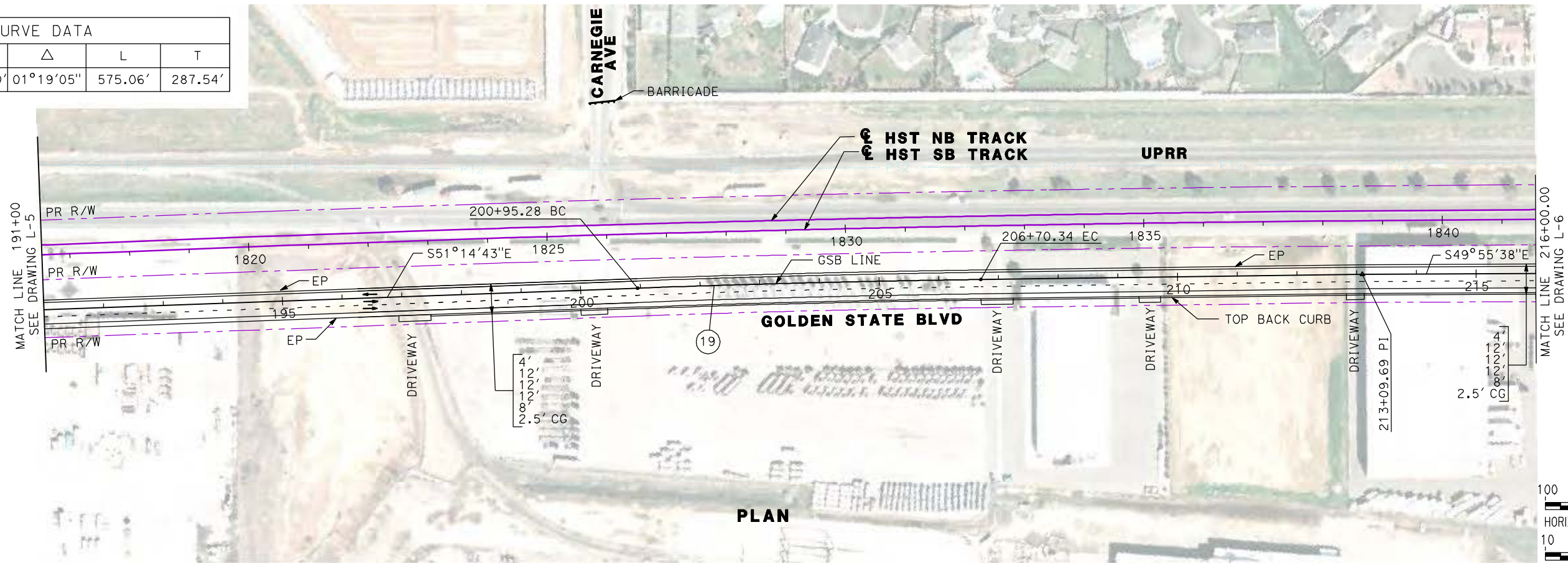
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 163+50 TO "GSB" 191+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-5
SCALE
AS SHOWN
SHEET NO.

CURVE DATA					
No.	LINE	R	Δ	L	T
19	GSB	25000.00'	01°19'05"	575.06'	287.54'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

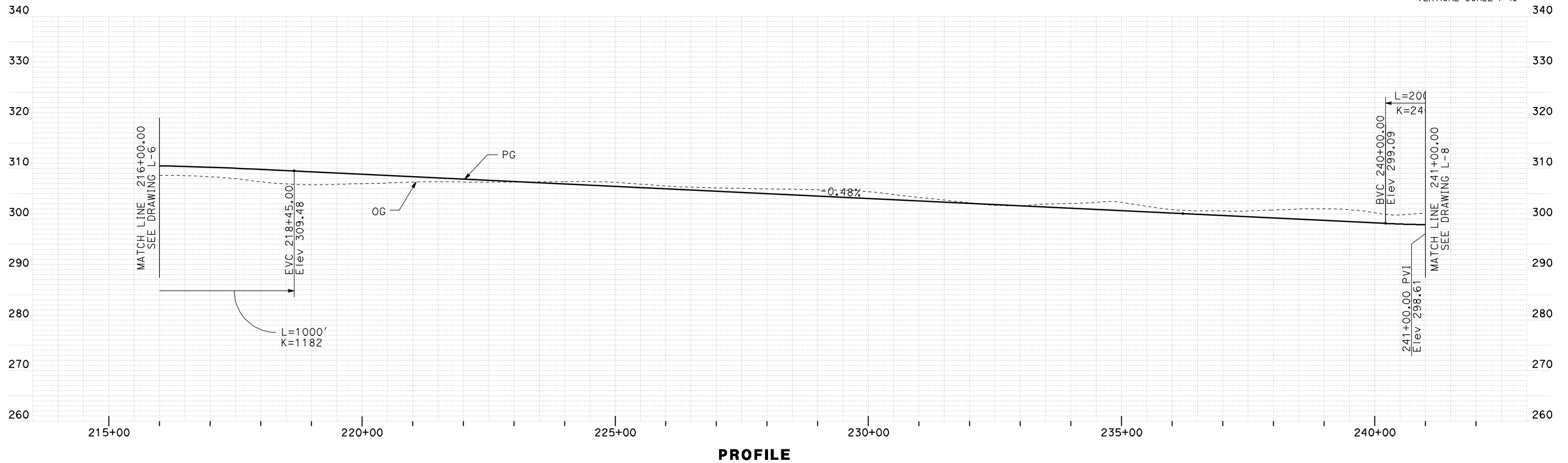
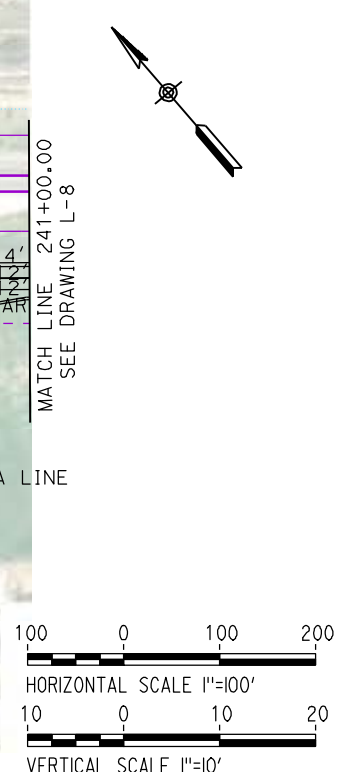
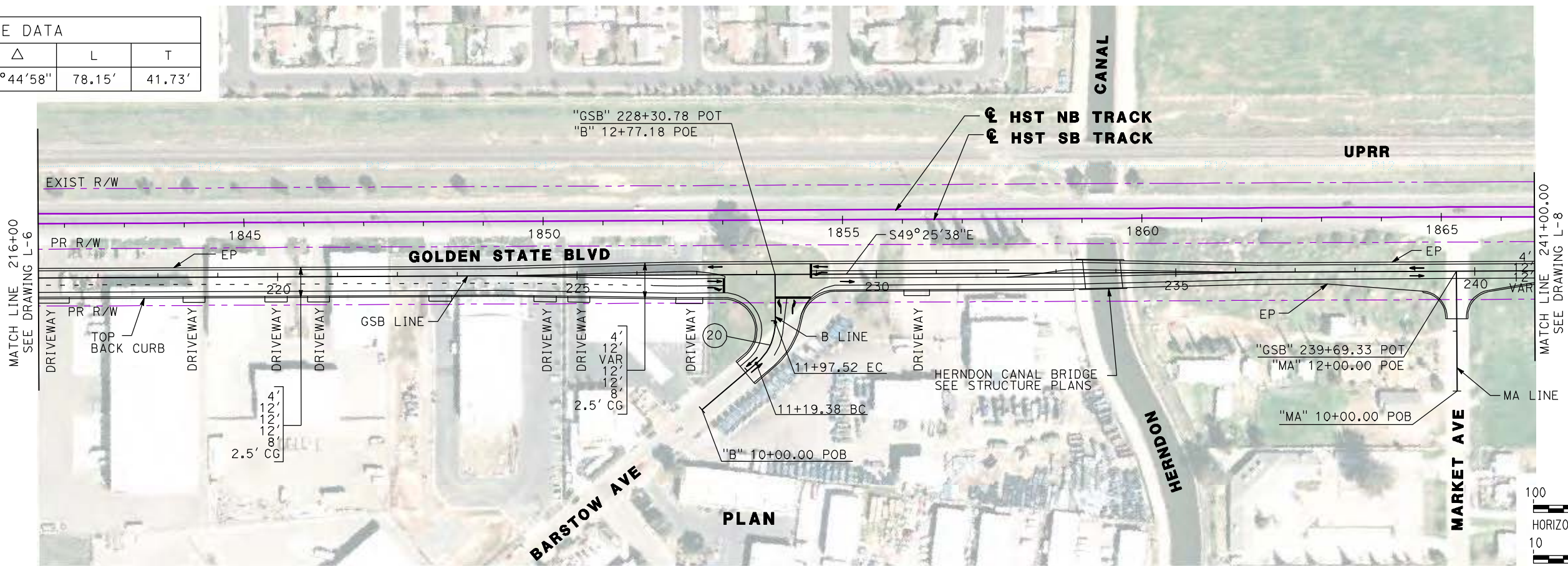
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 191+00 TO "GSB" 216+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-6
SCALE
AS SHOWN
SHEET NO.

CURVE DATA					
No.	LINE	R	Δ	L	T
20	B	90.00'	49°44'58"	78.15'	41.73'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
B. CHAN
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

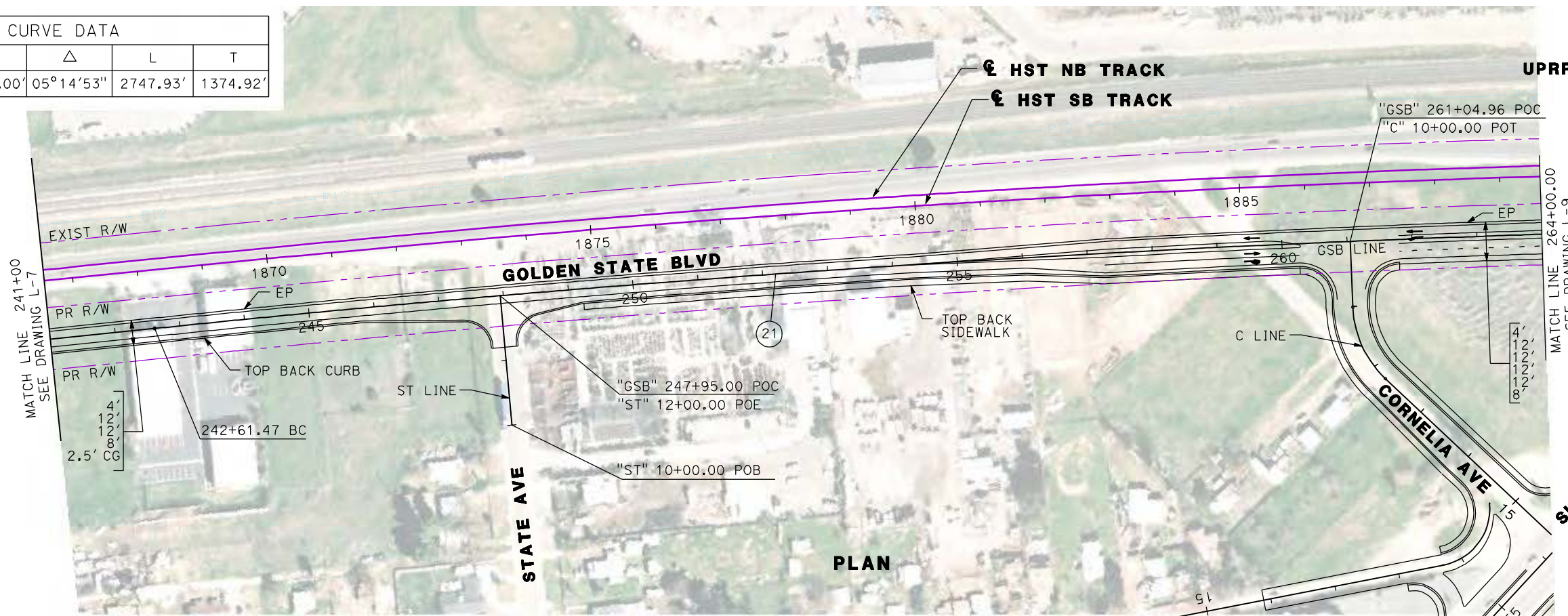
NOT FOR
CONSTRUCTION



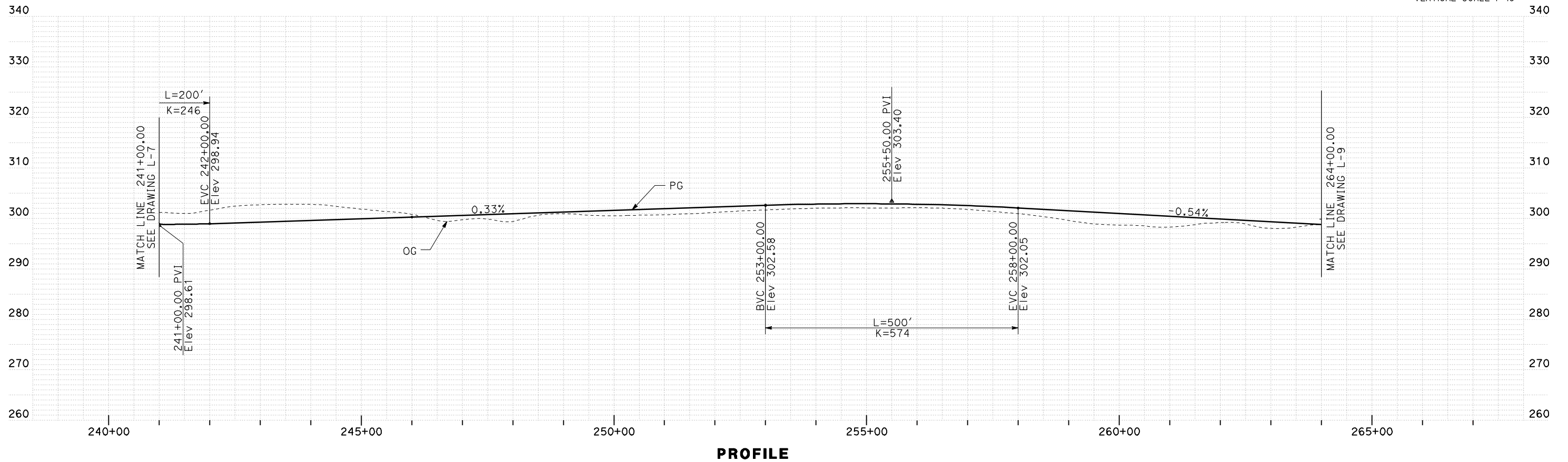
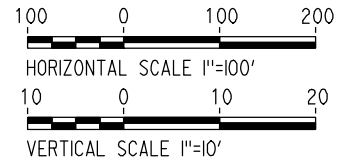
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 216+00 TO "GSB" 241+00

CONTRACT NO.	HSR06-007
DRAWING NO.	L-7
SCALE	AS SHOWN
SHEET NO.	

CURVE DATA					
No.	LINE	R	Δ	L	T
(21)	GSB	30000.00'	05°14'53"	2747.93'	1374.92'



SEE SHEETS L-14 AND L-15 FOR SHAW AVE
SEE SHEETS L-16 AND L-17 FOR CORNELIA AND SANTA ANA AVE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

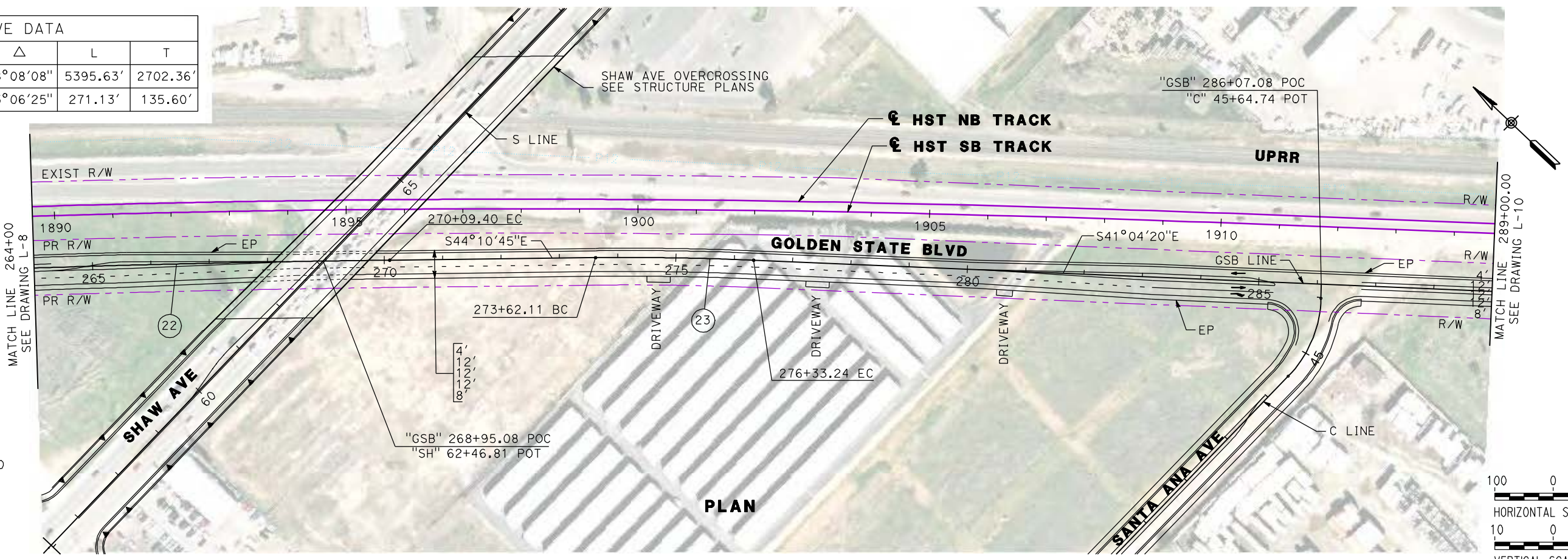
NOT FOR
CONSTRUCTION



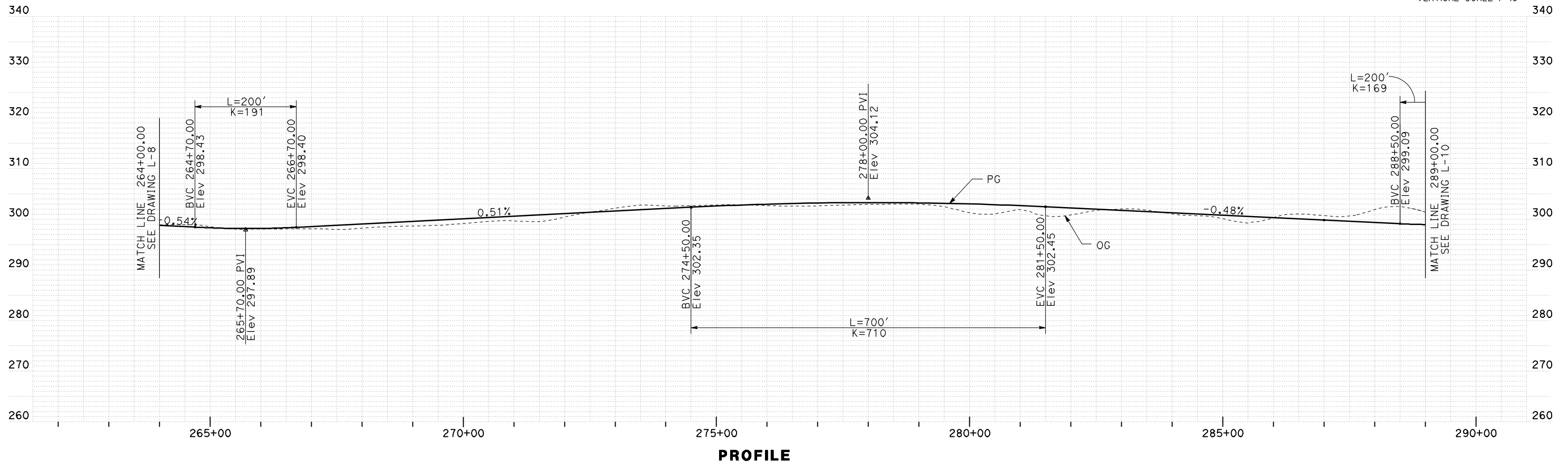
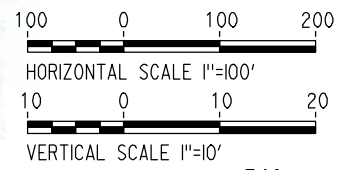
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 241+00 TO "GSB" 264+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-8
SCALE
AS SHOWN
SHEET NO.

CURVE DATA					
No.	LINE	R	Δ	L	T
22	GSB	38000.00'	08°08'08"	5395.63'	2702.36'
23	GSB	5000.00'	03°06'25"	271.13'	135.60'



SEE SHEETS L-14 AND L-15 FOR SHAW AVE
SEE SHEETS L-16 AND L-17 FOR CORNELIA AND SANTA ANA AVE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

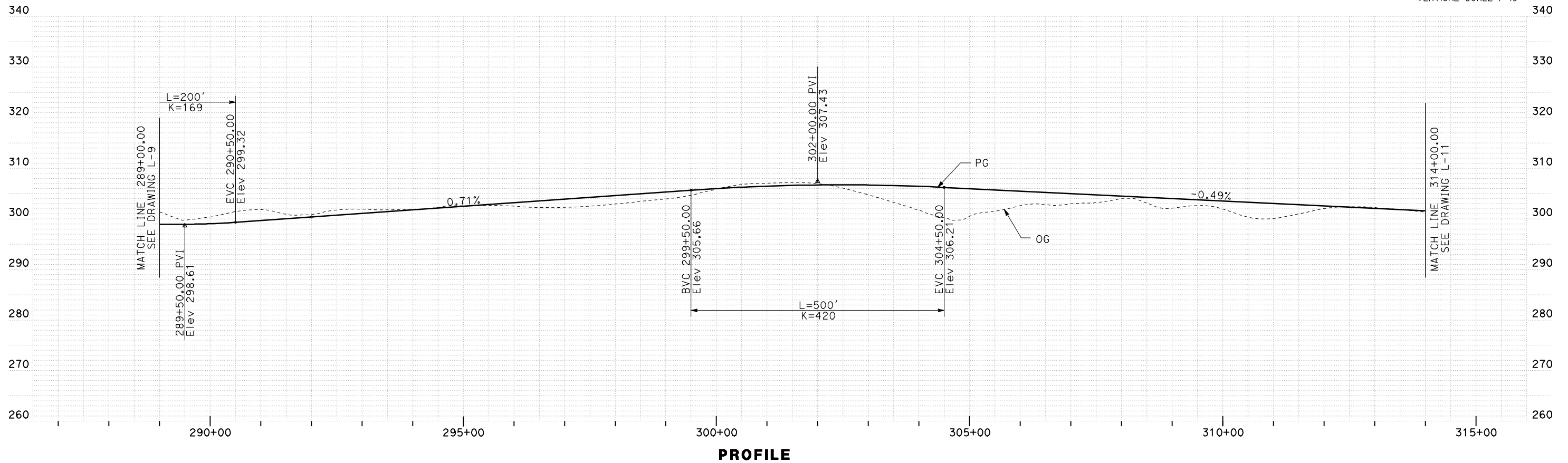
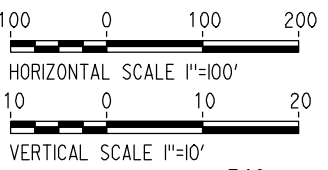
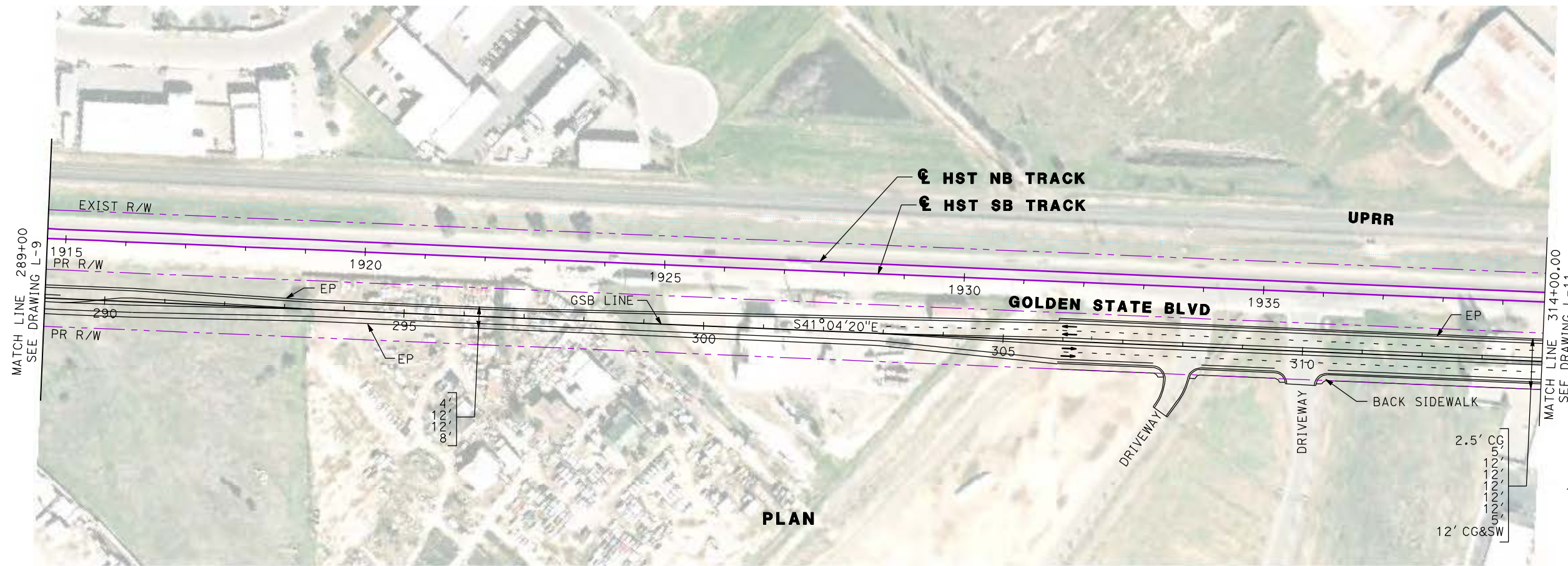
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 264+00 TO "GSB" 289+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-9
SCALE
AS SHOWN
SHEET NO.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

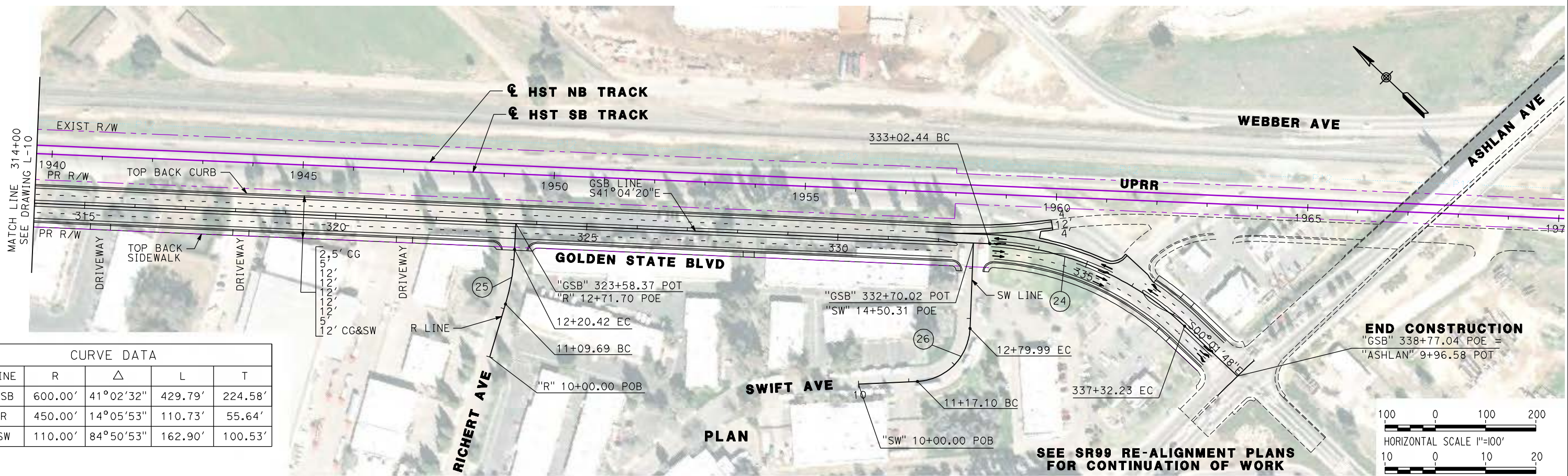
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

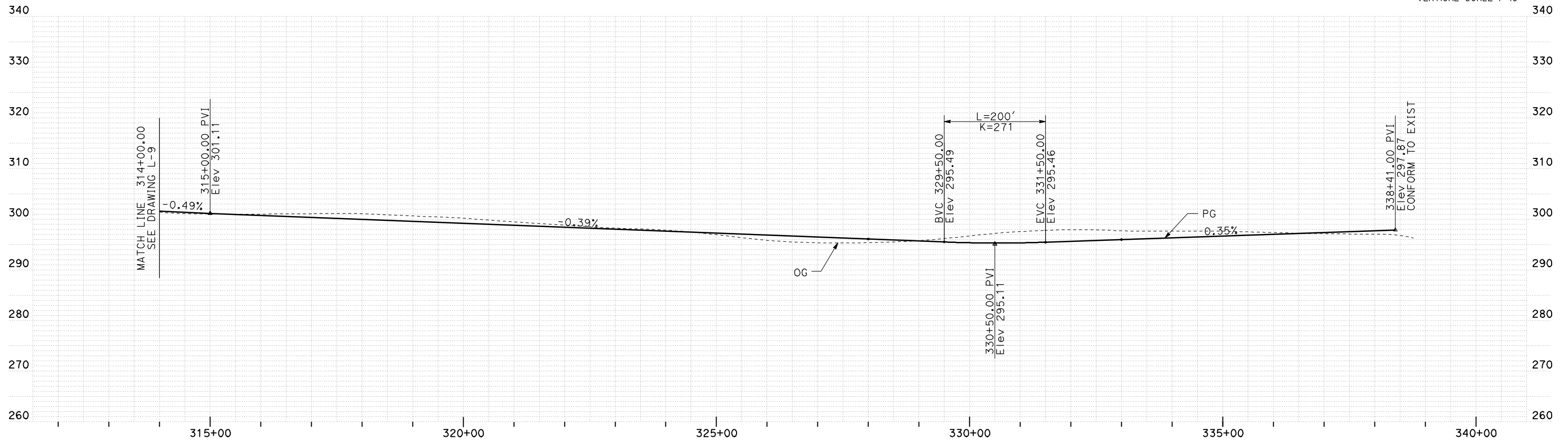
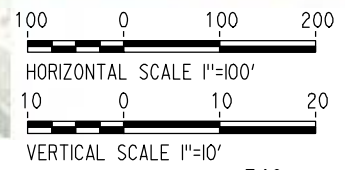


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 289+00 TO "GSB" 314+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-10
SCALE
AS SHOWN
SHEET NO.



CURVE DATA					
No.	LINE	R	Δ	L	T
24	GSB	600.00'	41°02'32"	429.79'	224.58'
25	R	450.00'	14°05'53"	110.73'	55.64'
26	SW	110.00'	84°50'53"	162.90'	100.53'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

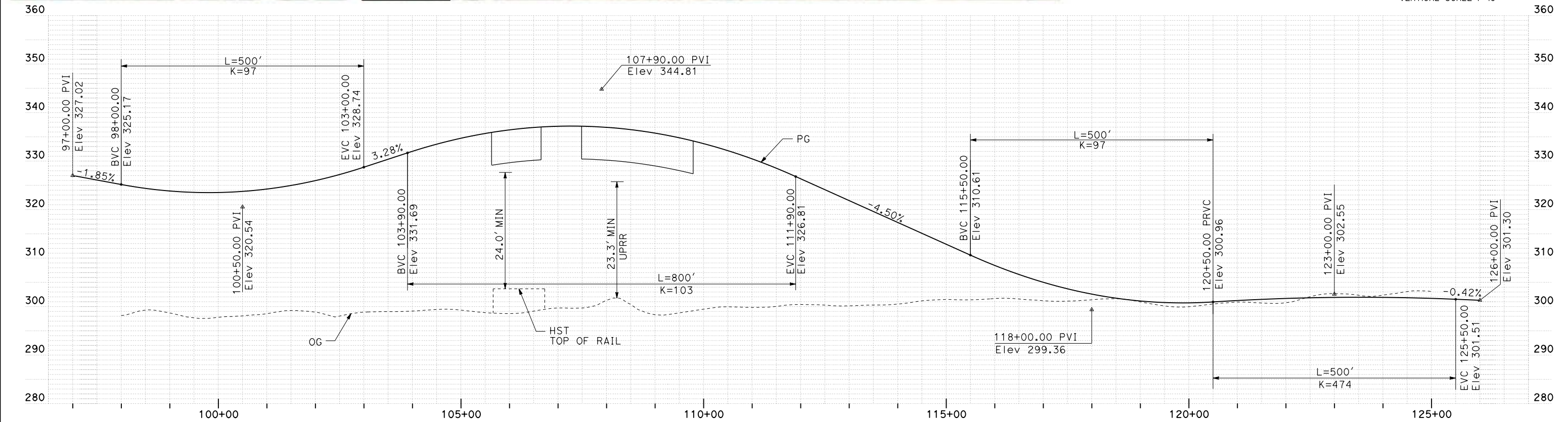
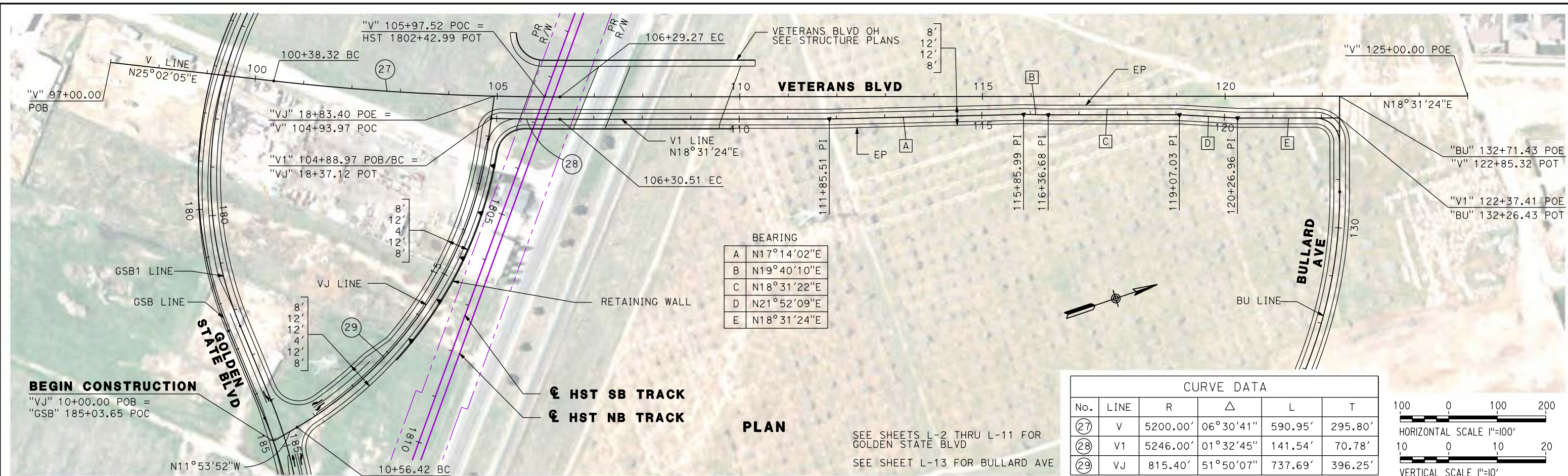
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 314+00 TO "GSB" 338+77

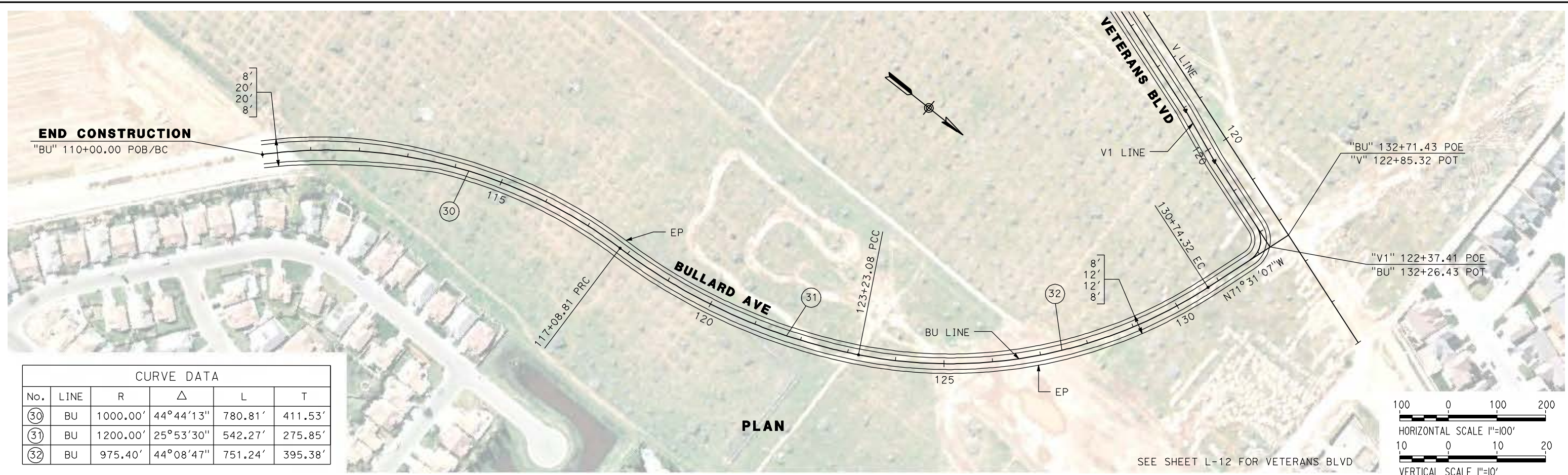
CONTRACT NO.
HSR06-007
DRAWING NO.
L-11
SCALE
AS SHOWN
SHEET NO.



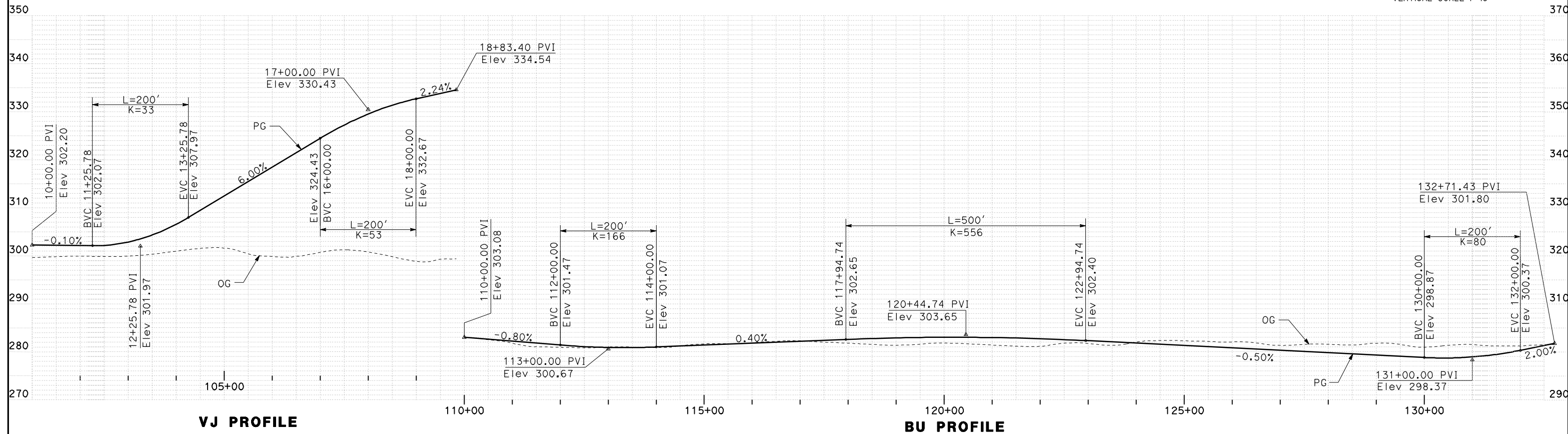
DESIGNED BY G. MANOREK DRAWN BY B. CHAN CHECKED BY L. HEUSTON IN CHARGE J. MATSUI-DRURY DATE 04/29/11					RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION		AECOM <small>Technical Services, Inc.</small> 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL				CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO VETERANS BOULEVARD LAYOUT "V" 105+00 TO "V" 122+35			CONTRACT NO. HSR06-007 DRAWING NO. L-12 SCALE AS SHOWN SHEET NO.	
REV	DATE	BY	CHK	APP	DESCRIPTION										

DATE PLOTTED => 26-APR-2011

USERNAME => jros



CURVE DATA					
No.	LINE	R	Δ	L	T
30	BU	1000.00'	44°44'13"	780.81'	411.53'
31	BU	1200.00'	25°53'30"	542.27'	275.85'
32	BU	975.40'	44°08'47"	751.24'	395.38'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

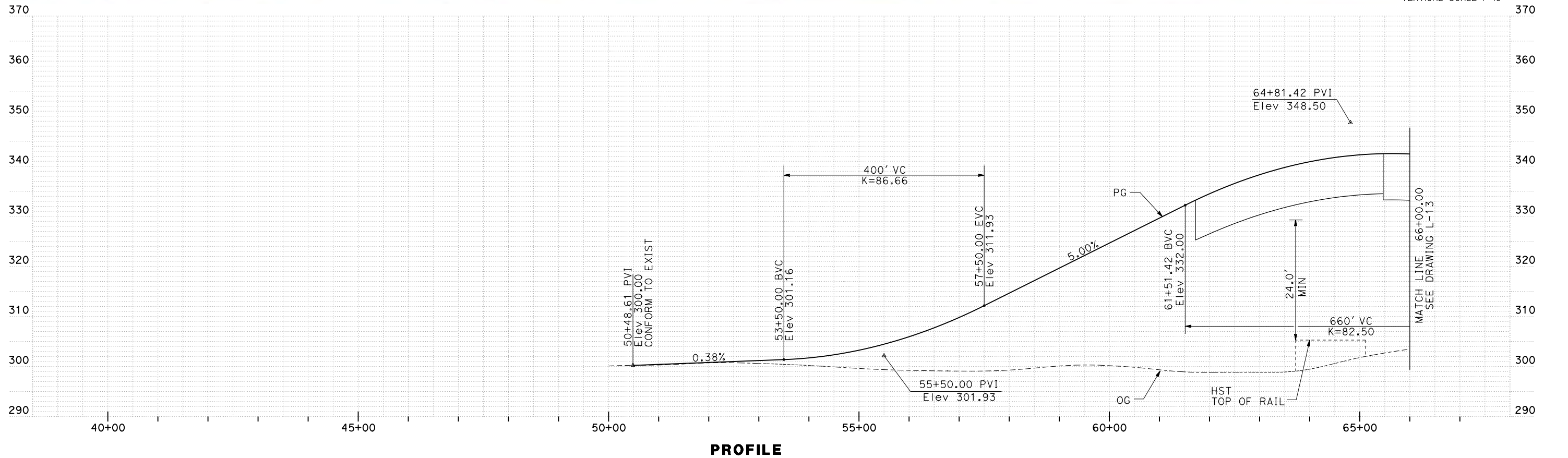
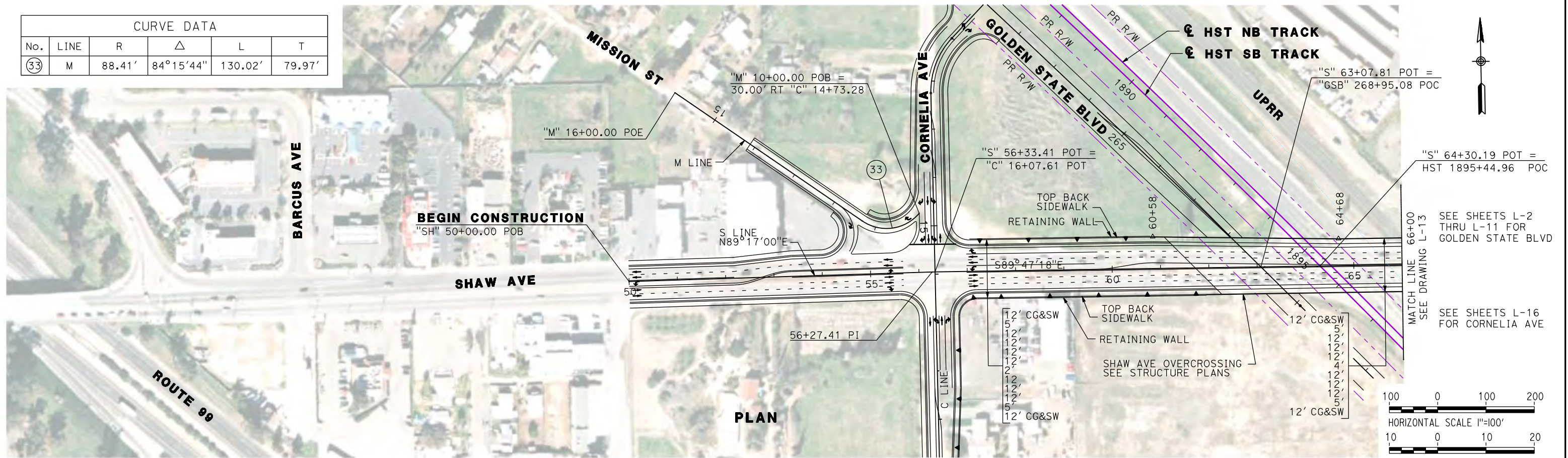
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BULLARD AVENUE
LAYOUT
"BU" 100+00 TO "BU" 132+72

CONTRACT NO. HSR06-007
DRAWING NO. L-13
SCALE AS SHOWN
SHEET NO.

CURVE DATA					
No.	LINE	R	Δ	L	T
33	M	88.41'	84°15'44"	130.02'	79.97'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

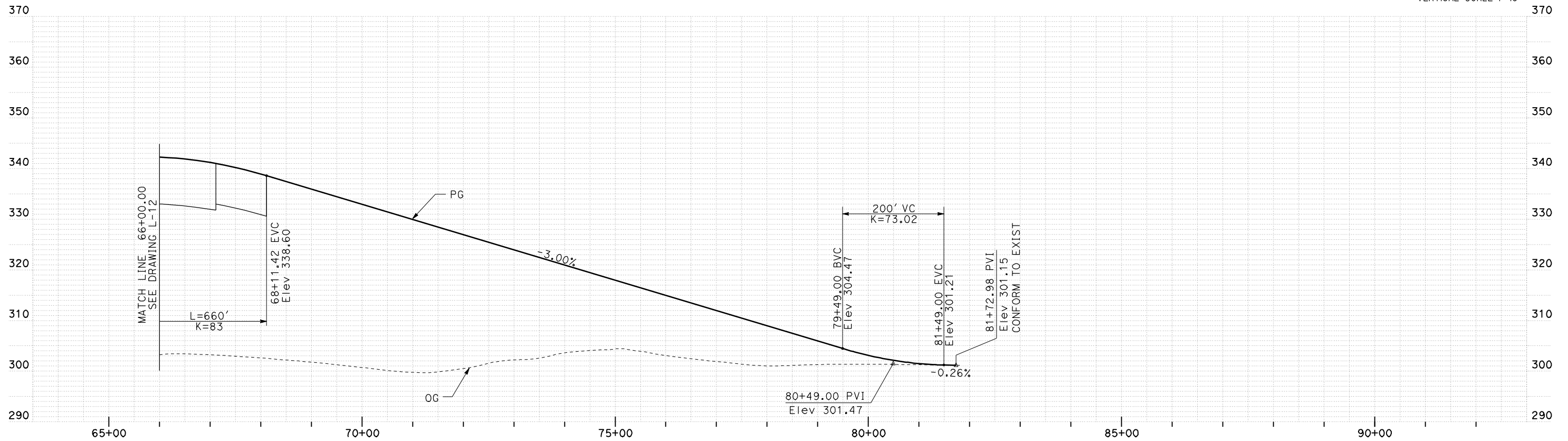
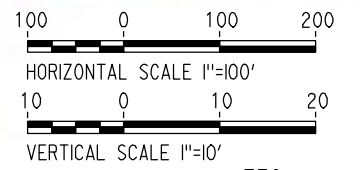
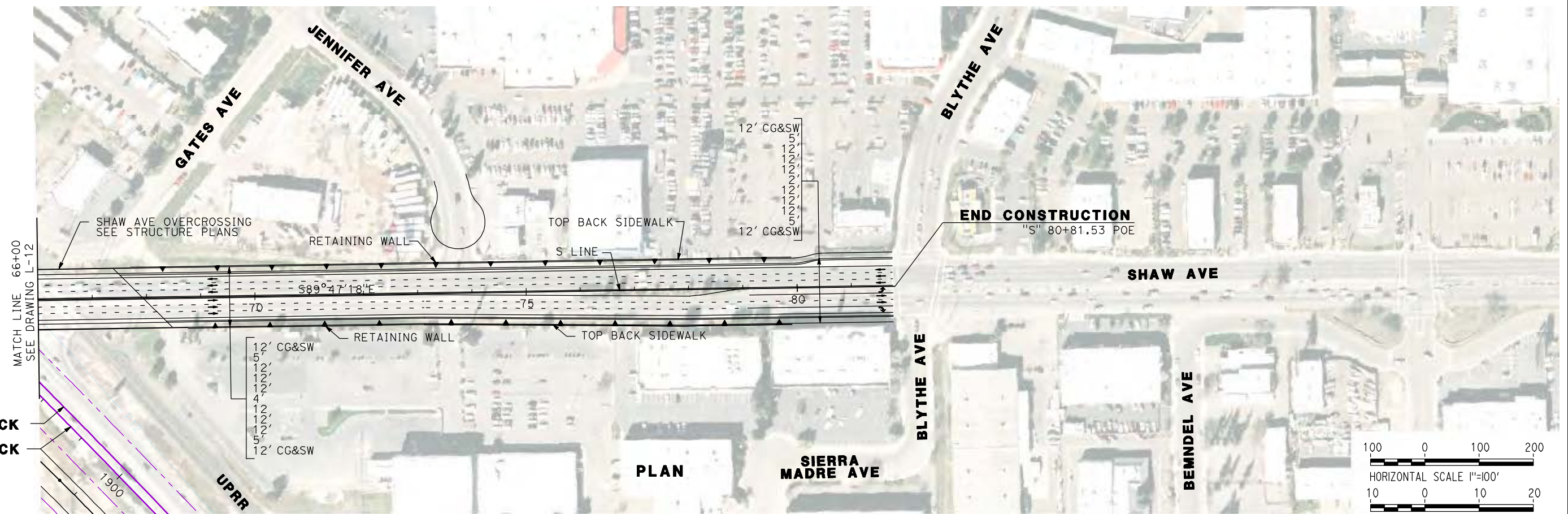
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
SHAW AVENUE RE-ALIGNMENT
LAYOUT
"S" 50+00 TO "S" 66+00

CONTRACT NO.	HSR06-007
DRAWING NO.	L-14
SCALE	AS SHOWN
SHEET NO.	

SEE SHEETS L-2 THRU L-11 FOR GOLDEN STATE BLVD



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



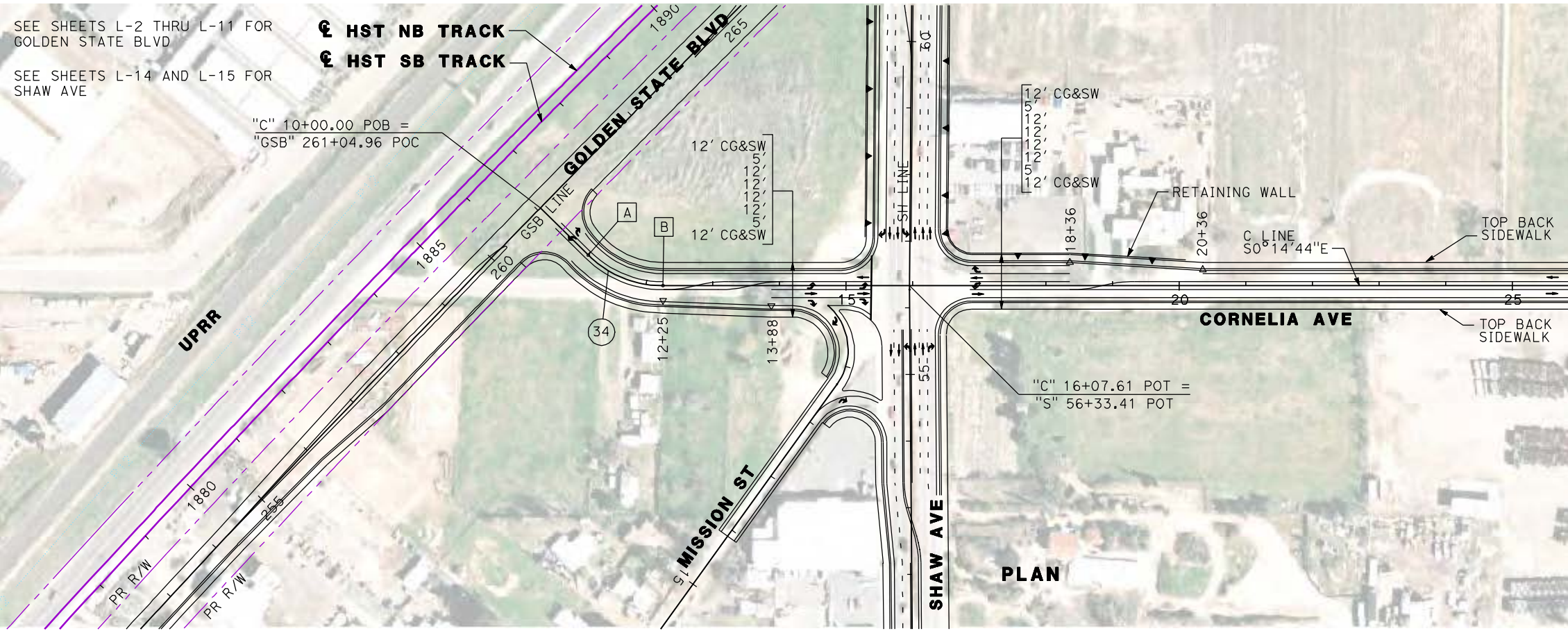
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
SHAW AVENUE RE-ALIGNMENT
LAYOUT
"S" 66+00 TO "S" 80+81

CONTRACT NO.
HSR06-007
DRAWING NO.
L-15
SCALE
AS SHOWN
SHEET NO.

SEE SHEETS L-2 THRU L-11 FOR GOLDEN STATE BLVD

SEE SHEETS L-14 AND L-15 FOR SHAW AVE

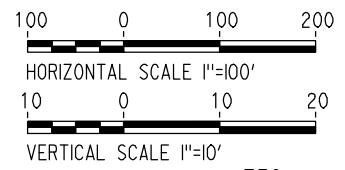
☑ HST NB TRACK
☑ HST SB TRACK



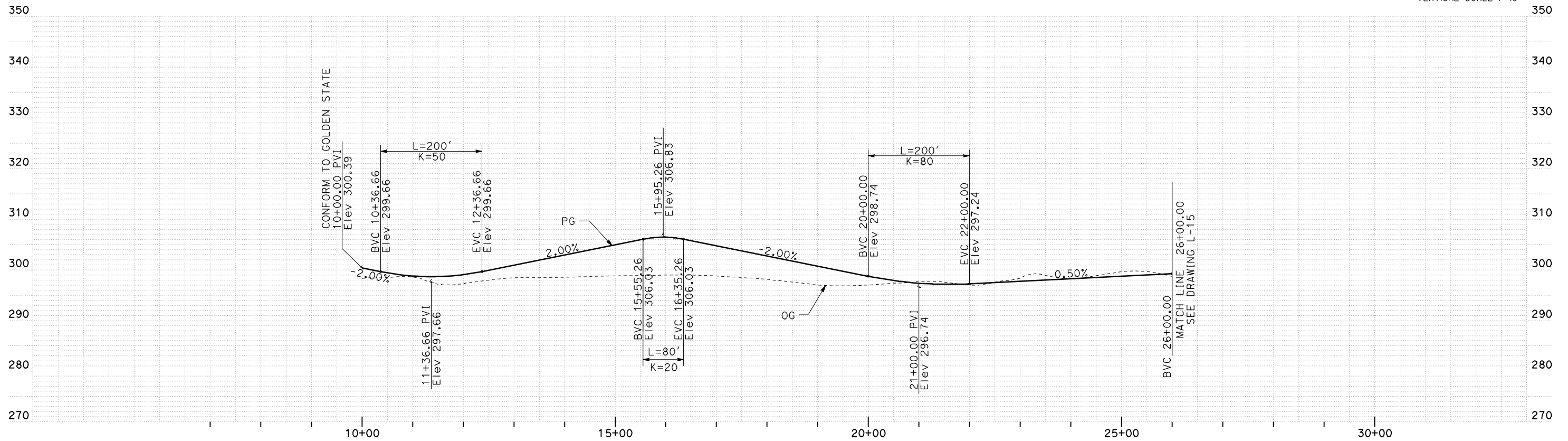
CURVE DATA					
No.	LINE	R	Δ	L	T
34	C	160.00'	44°29'15"	124.23'	65.44'



- A 11+00.95 BC
- B 12+25.19 EC



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

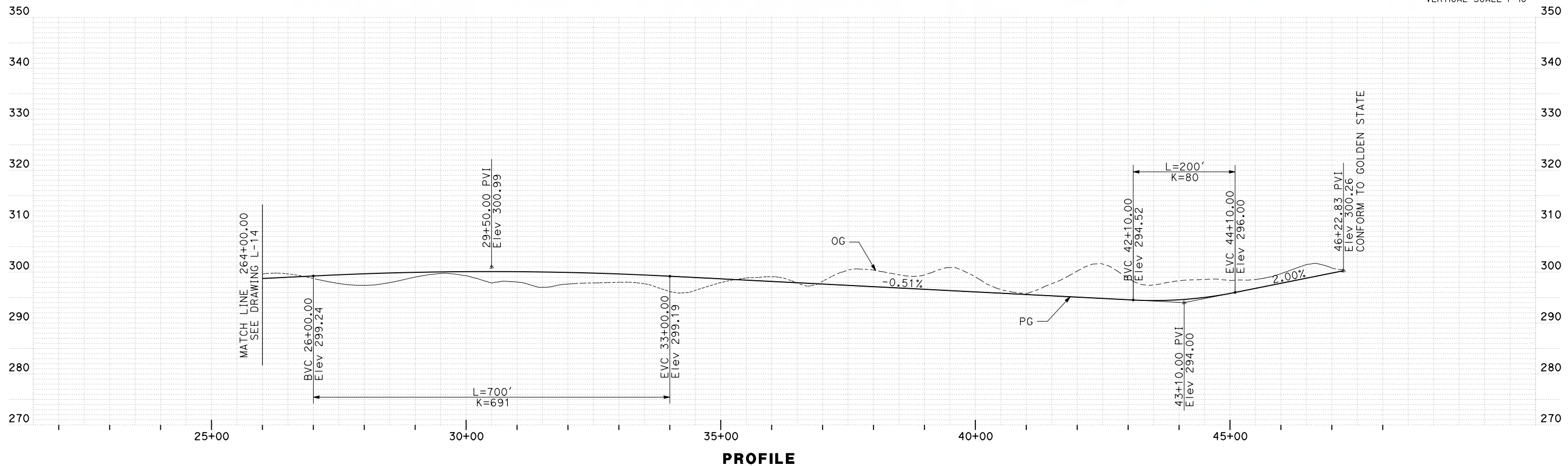
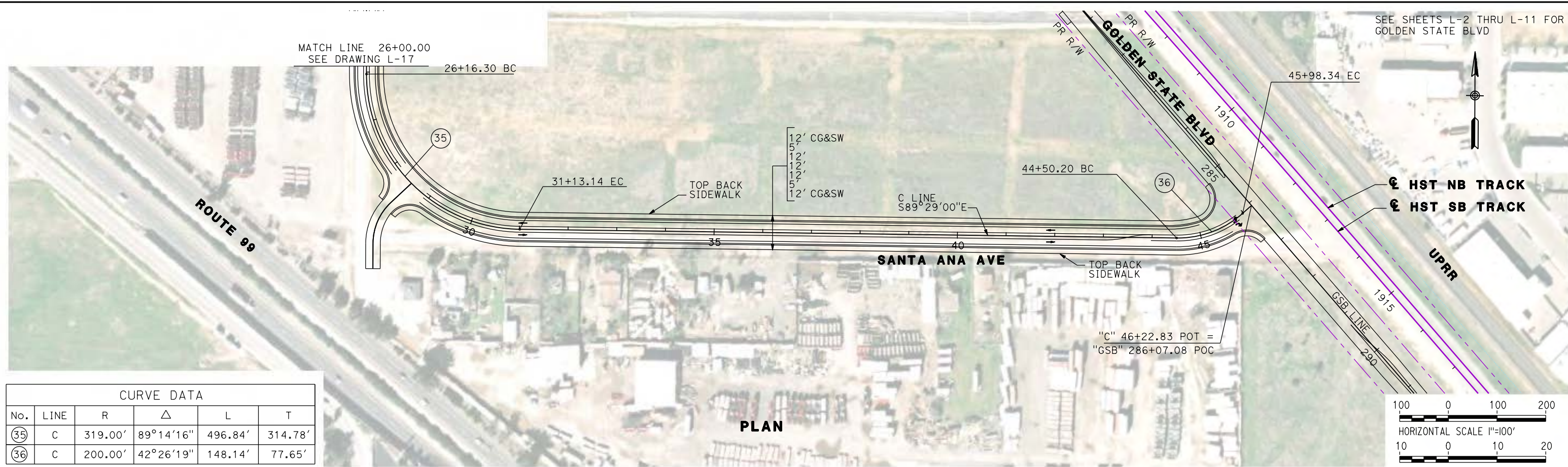
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
CORNELIA AVENUE RE-ALIGNMENT
LAYOUT
"C" 10+00 TO "C" 26+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-16
SCALE
AS SHOWN
SHEET NO.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK

DRAWN BY
B. CHAN

CHECKED BY
L. HEUSTON

IN CHARGE
J. MATSUI-DRURY

DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



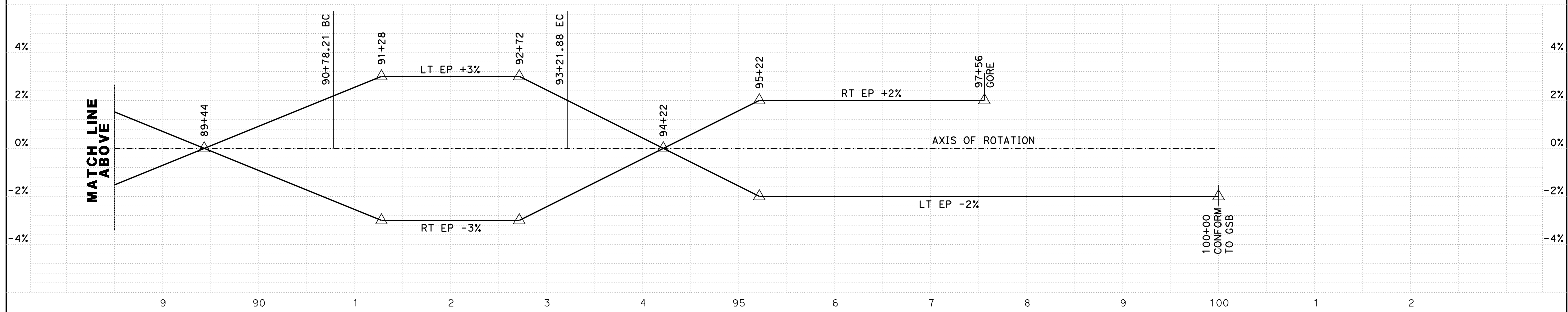
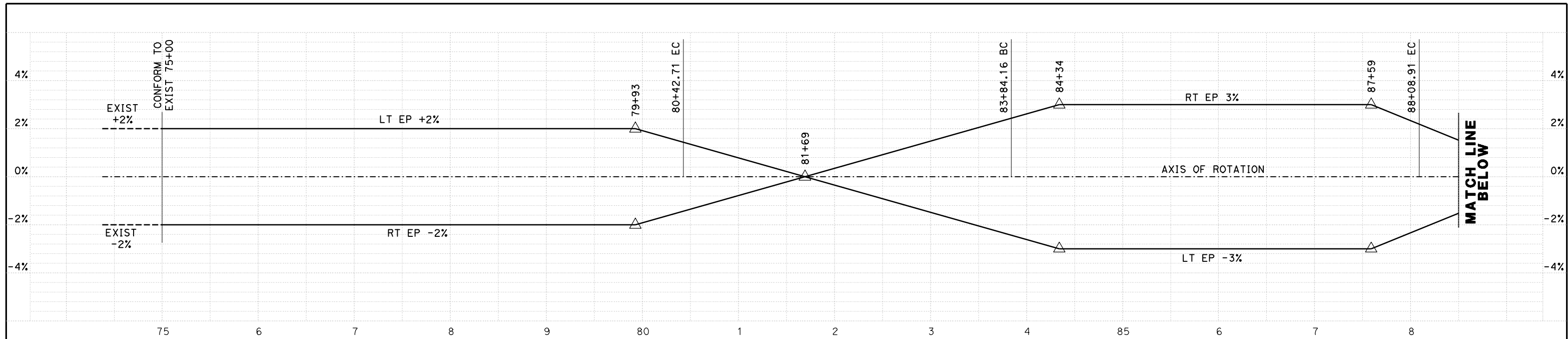
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
SANTA ANA AVENUE RE-ALIGNMENT
LAYOUT
"C" 26+00 TO "C" 46+23

CONTRACT NO.
HSR06-007

DRAWING NO.
L-17

SCALE
AS SHOWN

SHEET NO.



NB LINE
SUPERELEVATION DIAGRAM
 NO SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
B. CHAN
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

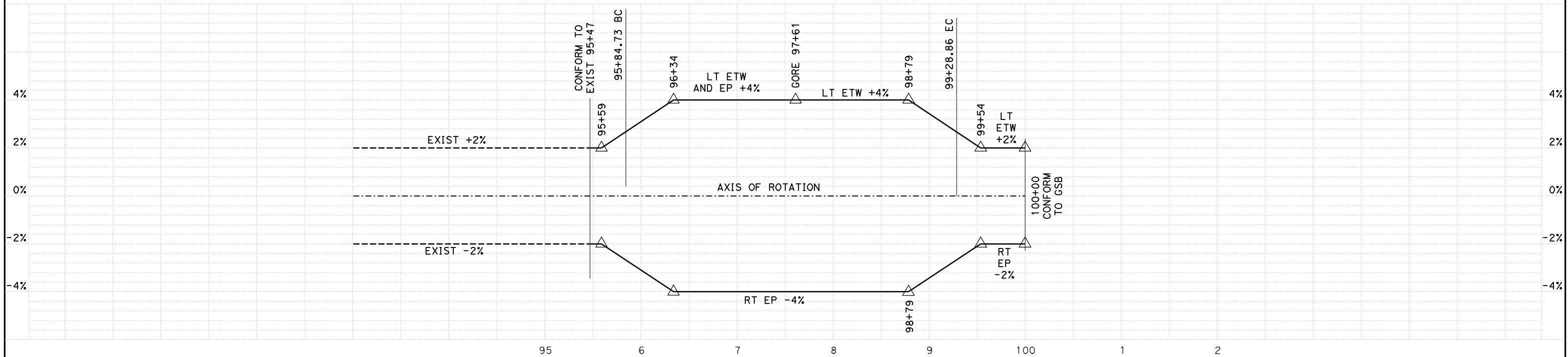
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
SUPERELEVATION DIAGRAM

CONTRACT NO.
HSR06-007
 DRAWING NO.
SE-1
 SCALE
 SHEET NO.



SB LINE
SUPERELEVATION DIAGRAM
 NO SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
B. CHAN
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

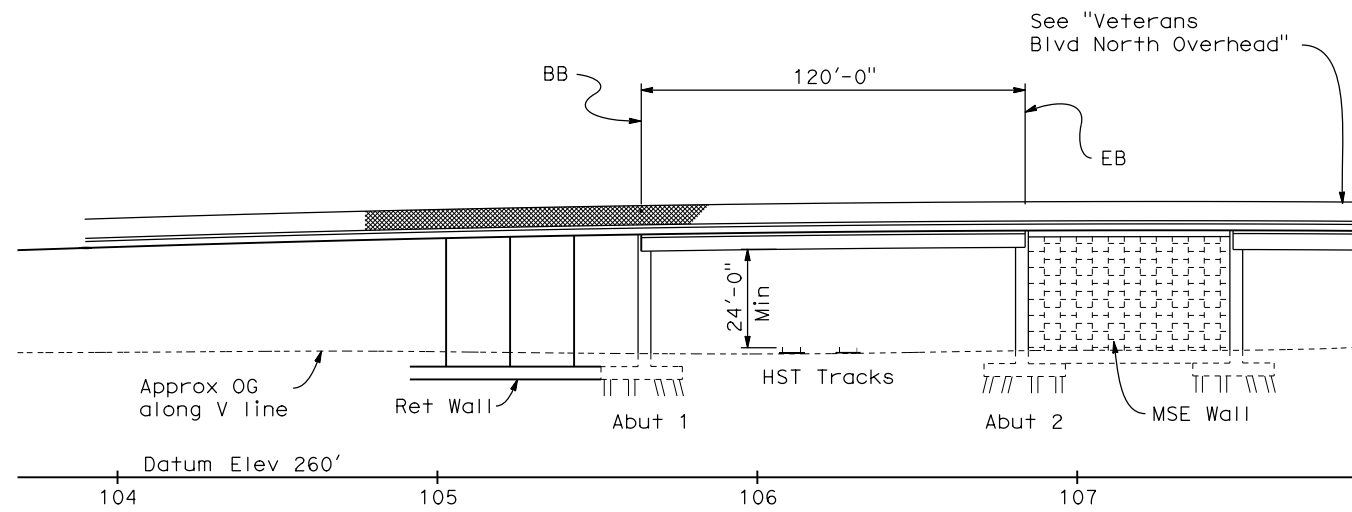
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

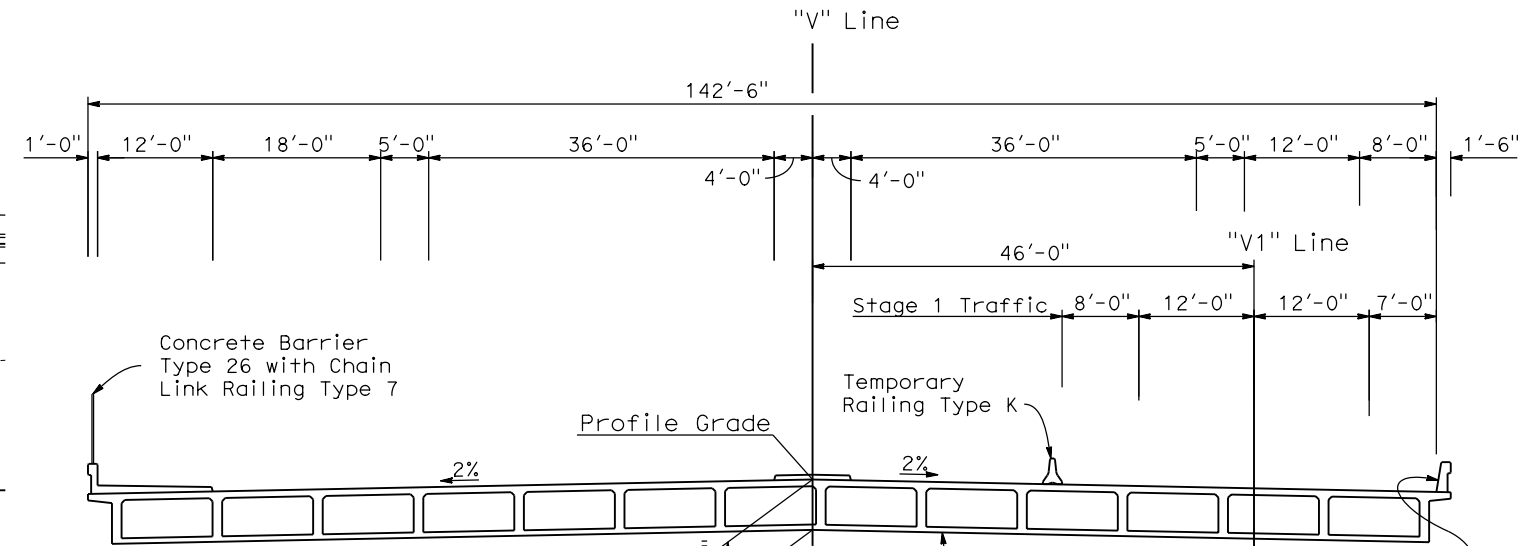


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
SUPERELEVATION DIAGRAM

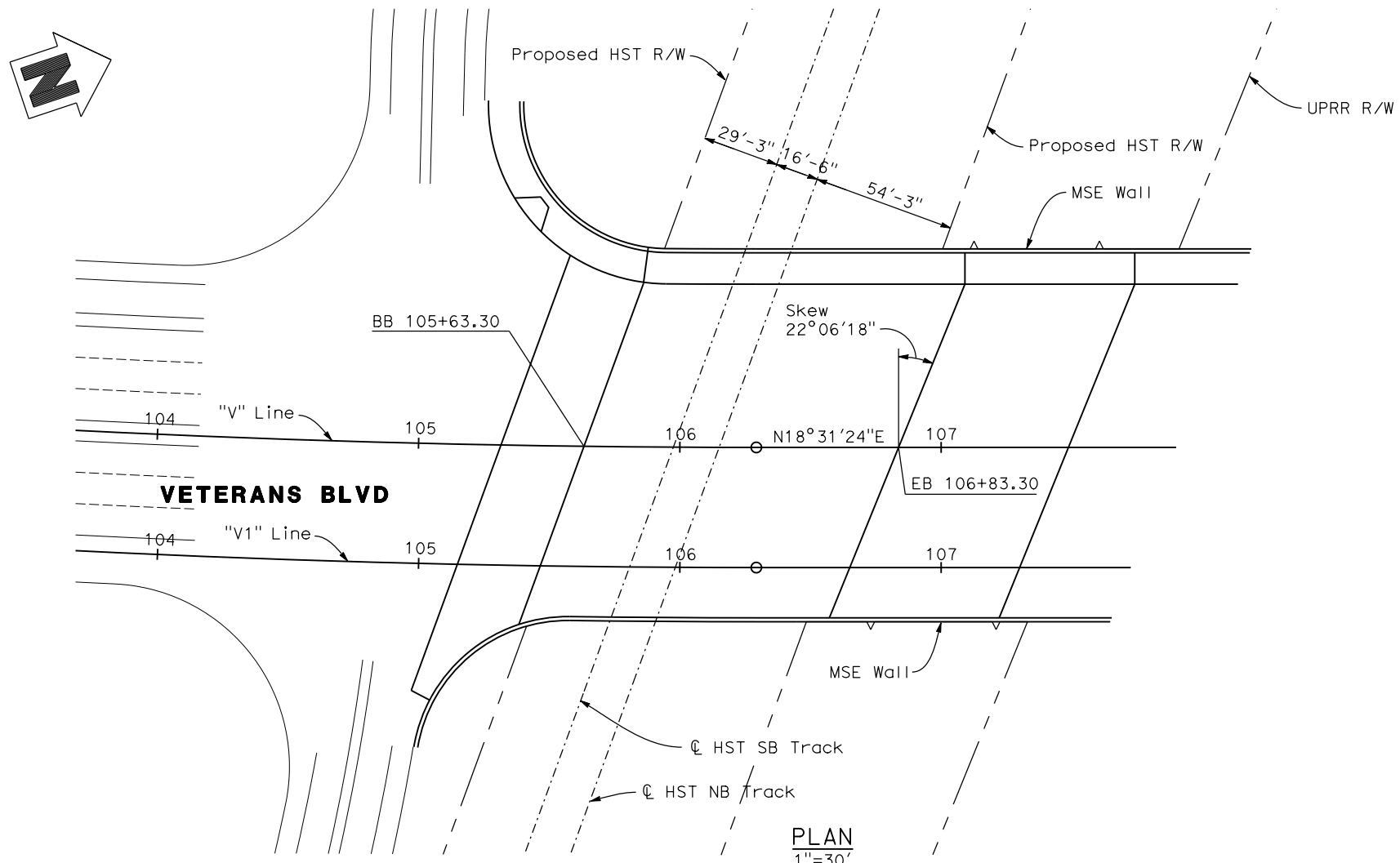
CONTRACT NO.
HSR06-007
 DRAWING NO.
SE-2
 SCALE
 SHEET NO.



ELEVATION
1"=30'



TYPICAL SECTION
1"=10'



PLAN
1"=30'

DATE OF ESTIMATE	=	04-13-2011
BRIDGE REMOVAL	=	-
STRUCTURE DEPTH	=	5'-3"
LENGTH	=	120'-0"
WIDTH	=	142'-6"
AREA	=	17,100 ft ²
COST/ft ² INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 175/ft ²
TOTAL COST	=	\$ 2,993,000

VETERANS BLVD. SOUTH OVERHEAD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

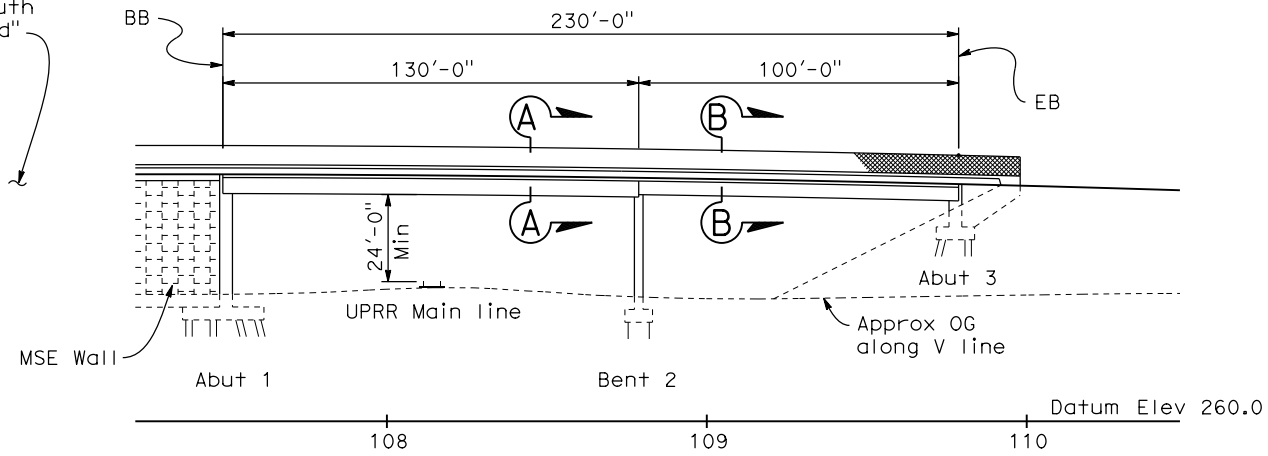


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

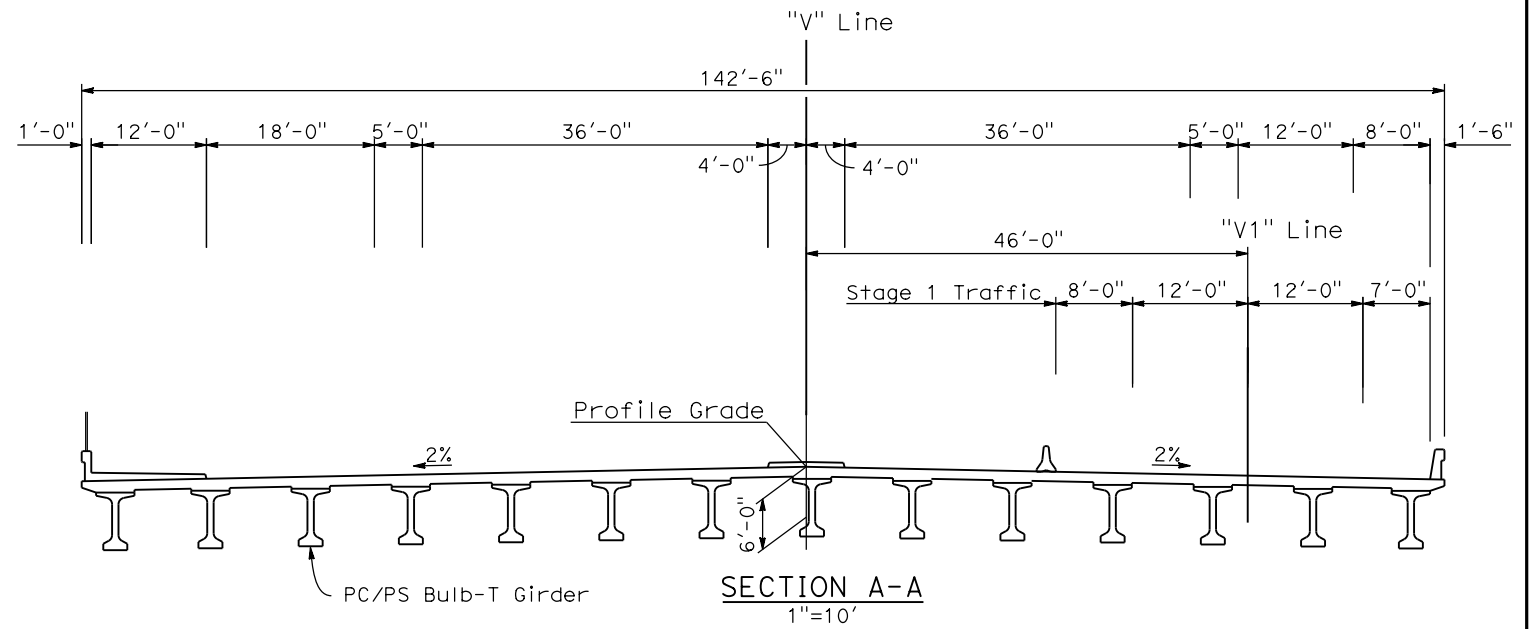
CONTRACT NO.
HSR006-007
DRAWING NO.
BR-1
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03-28-APR-2011

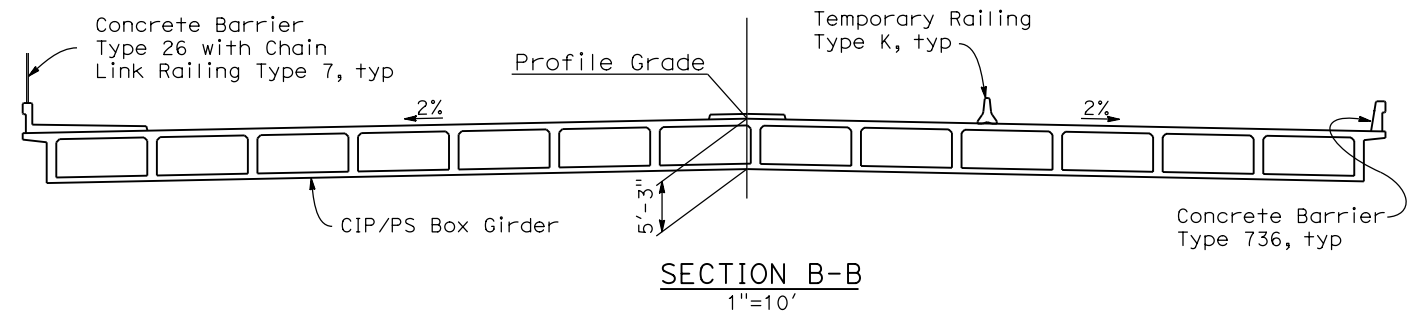
See "Veterans Blvd South Overhead"



ELEVATION
1"=30'

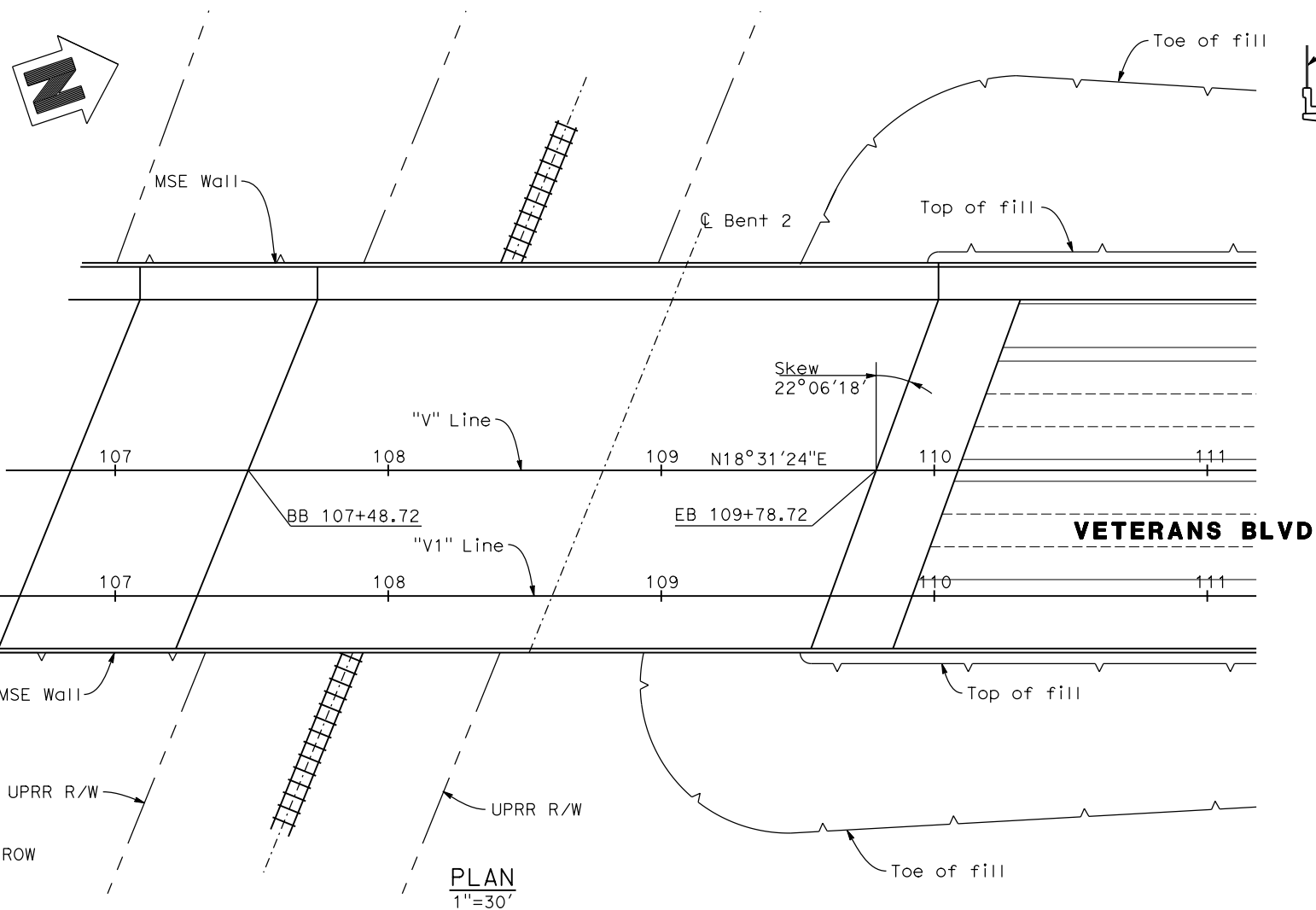


SECTION A-A
1"=10'



SECTION B-B
1"=10'

DATE OF ESTIMATE	=	04-13-2011
BRIDGE REMOVAL	=	-
STRUCTURE DEPTH	=	5'-3" TO 6'-0"
LENGTH	=	230'-0"
WIDTH	=	142'-6"
AREA	=	32,775 ft ²
COST/ft ² INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 175/ft ²
TOTAL COST	=	\$ 5,736,000



PLAN
1"=30'

VETERANS BLVD. NORTH OVERHEAD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

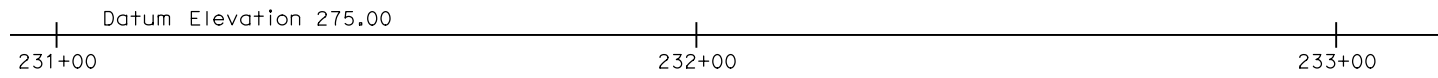
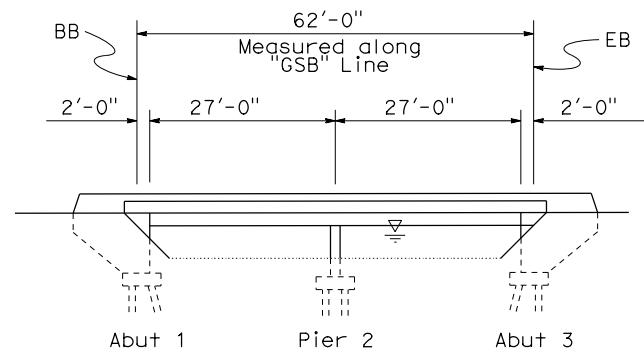
NOT FOR
CONSTRUCTION



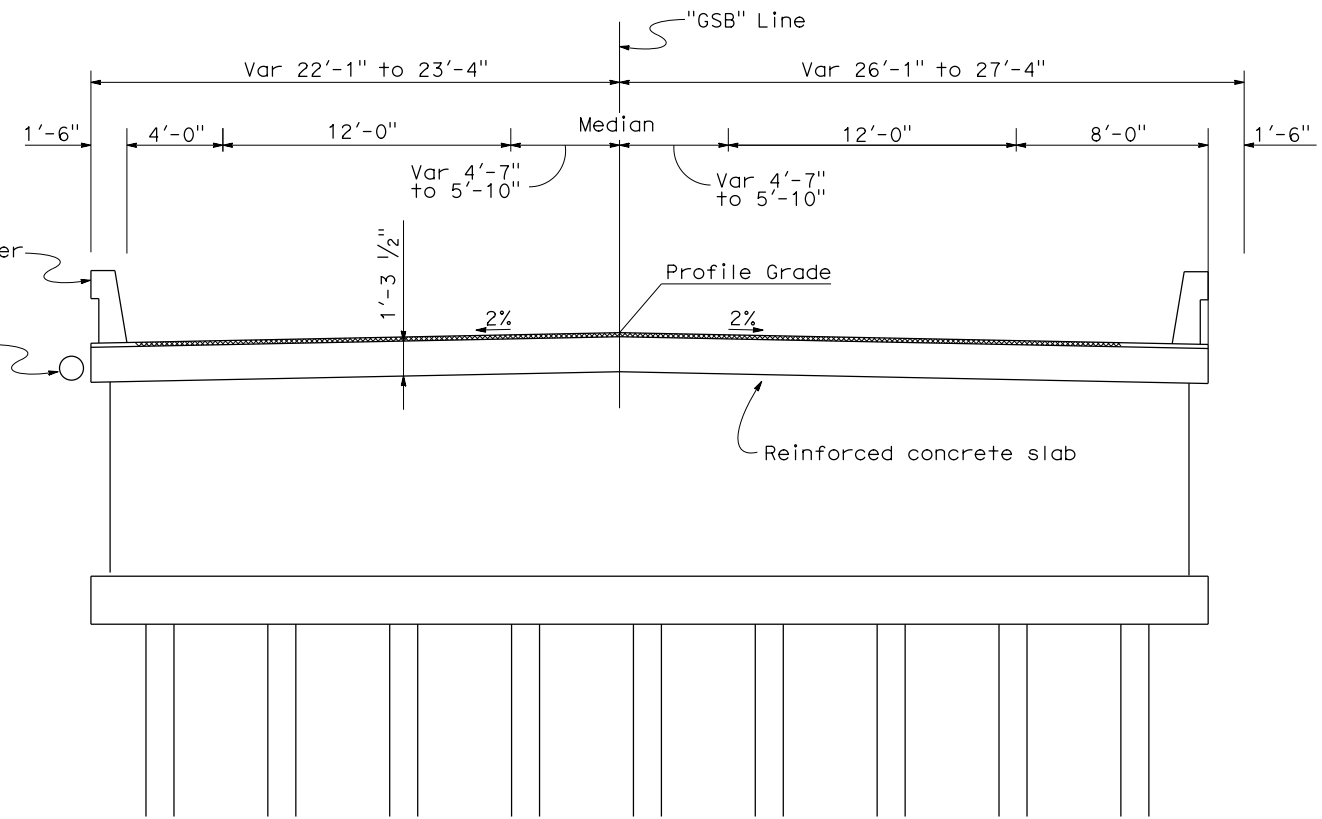
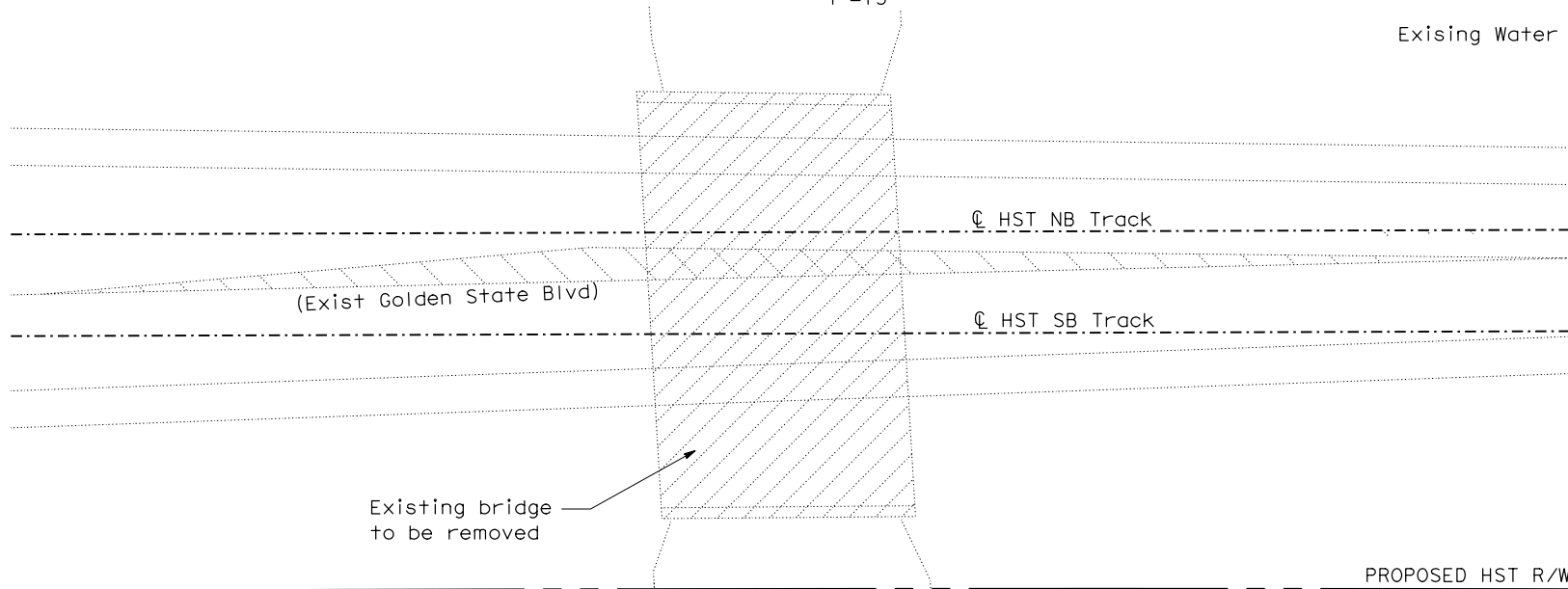
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

CONTRACT NO.
HSR006-007
DRAWING NO.
BR-2
SCALE
AS SHOWN
SHEET NO.

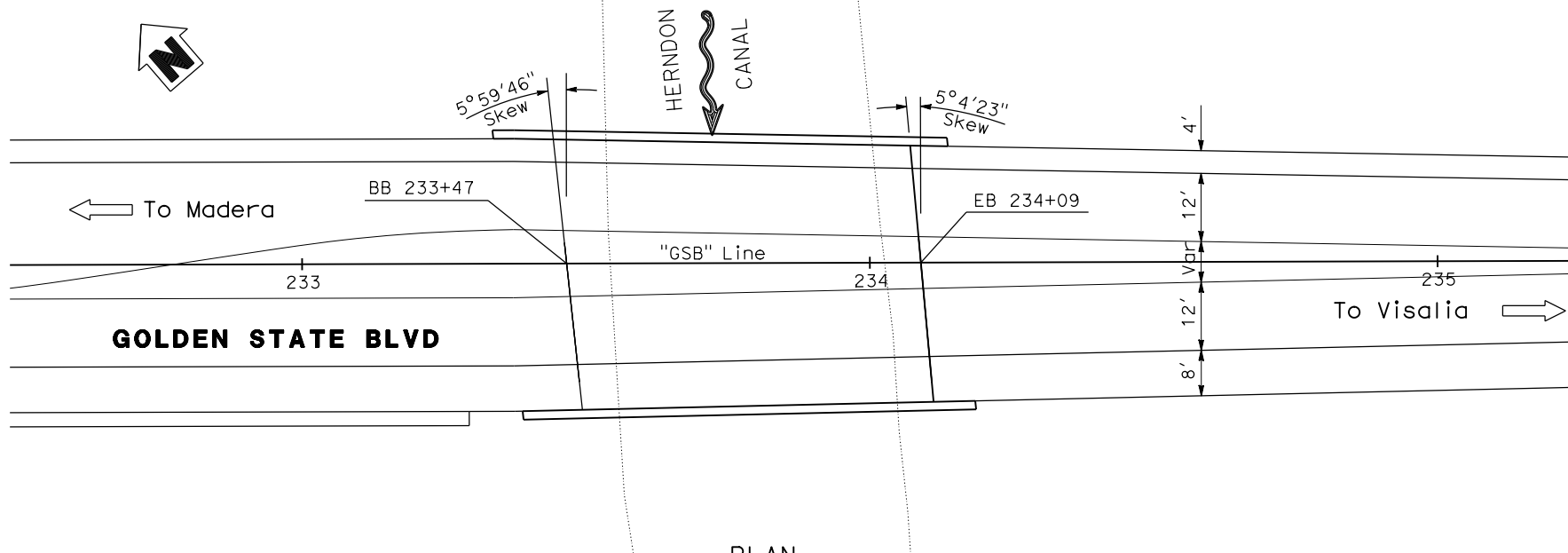
DATE PLOTTED: 23 APR 2011



ELEVATION
1"=15'



TYPICAL SECTION
1/4"=1'-0"



PLAN
1"=15'

DATE OF ESTIMATE	03-09-2011
BRIDGE REMOVAL	= \$ 50,000
STRUCTURE DEPTH	= 1'-3 1/2"
LENGTH	= 62'-0"
WIDTH	= 49'-5"
AREA	= 3064 Sq. Ft.
COST/□ INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$ 150
TOTAL COST	= \$ 510,000

HERNDON CANAL BRIDGE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

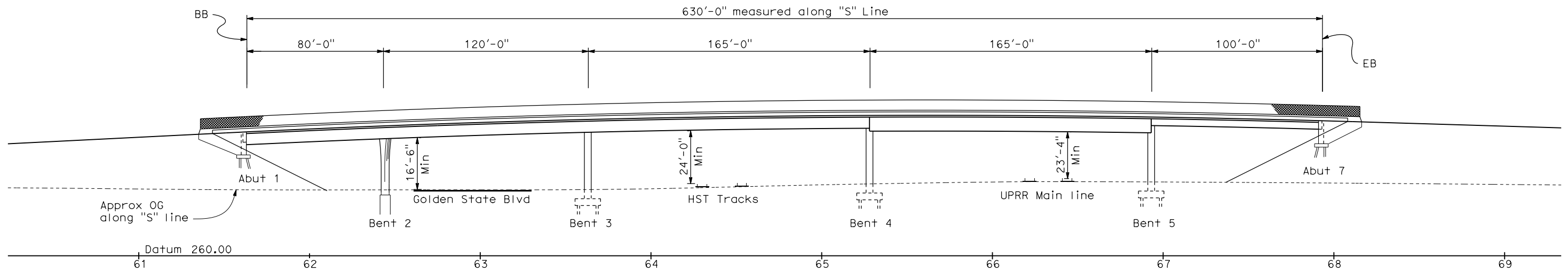
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

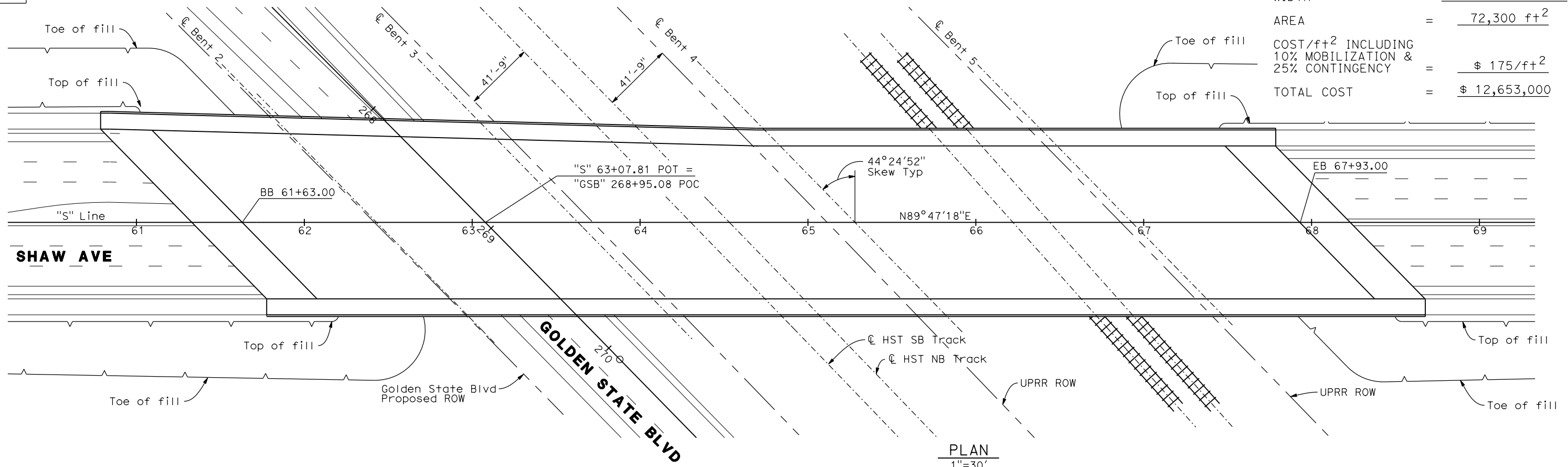
CONTRACT NO.	HSR006-007
DRAWING NO.	BR-3
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 03-28-2011 10:58:00 AM



ELEVATION
1"=30'

DATE OF ESTIMATE	=	04-13-2011
BRIDGE REMOVAL	=	-
STRUCTURE DEPTH	=	6'-0" TO 7'-3"
LENGTH	=	630'-0"
WIDTH	=	112'-0" to 120'-0"
AREA	=	72,300 ft ²
COST/ft ² INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 175/ft ²
TOTAL COST	=	\$ 12,653,000



PLAN
1"=30'

SHAW AVE OVERCROSSING

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

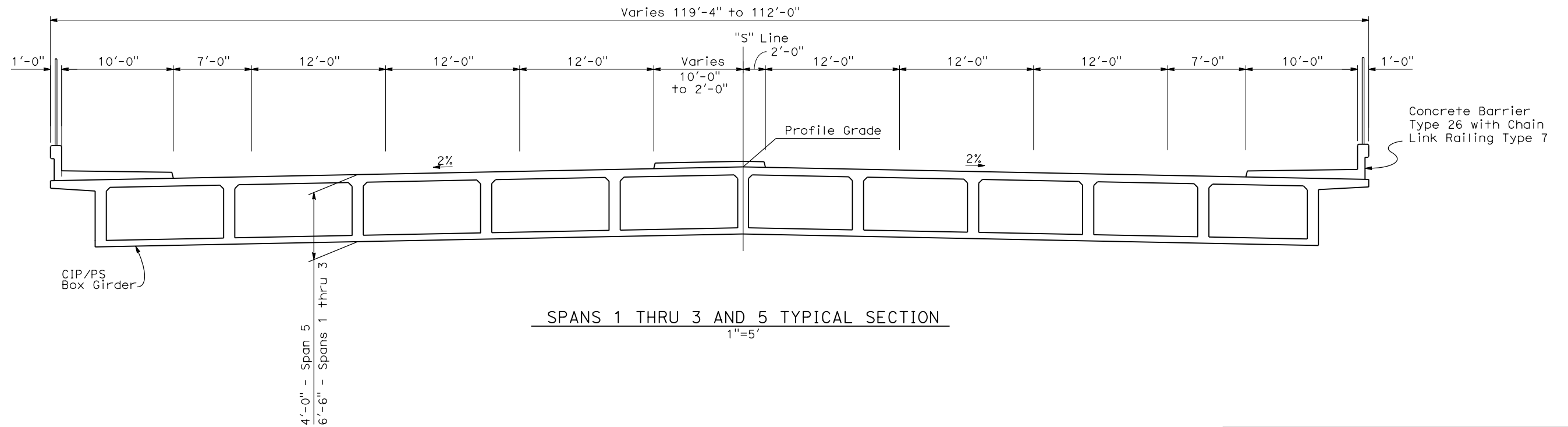
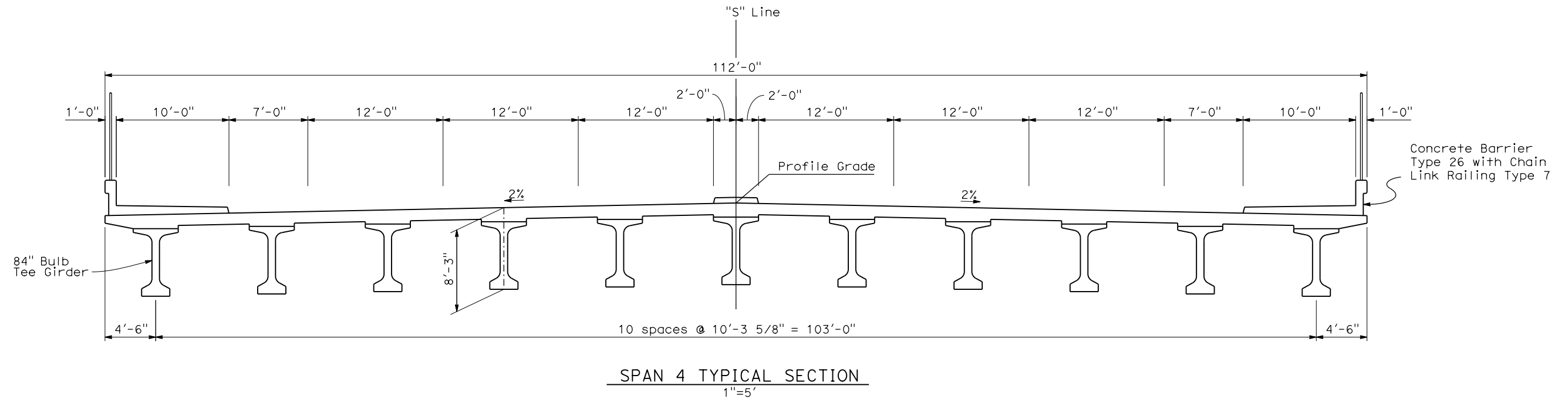
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

CONTRACT NO.	HSR006-007
DRAWING NO.	BR-4
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 23-APR-2011



SHAW AVE OVERCROSSING

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

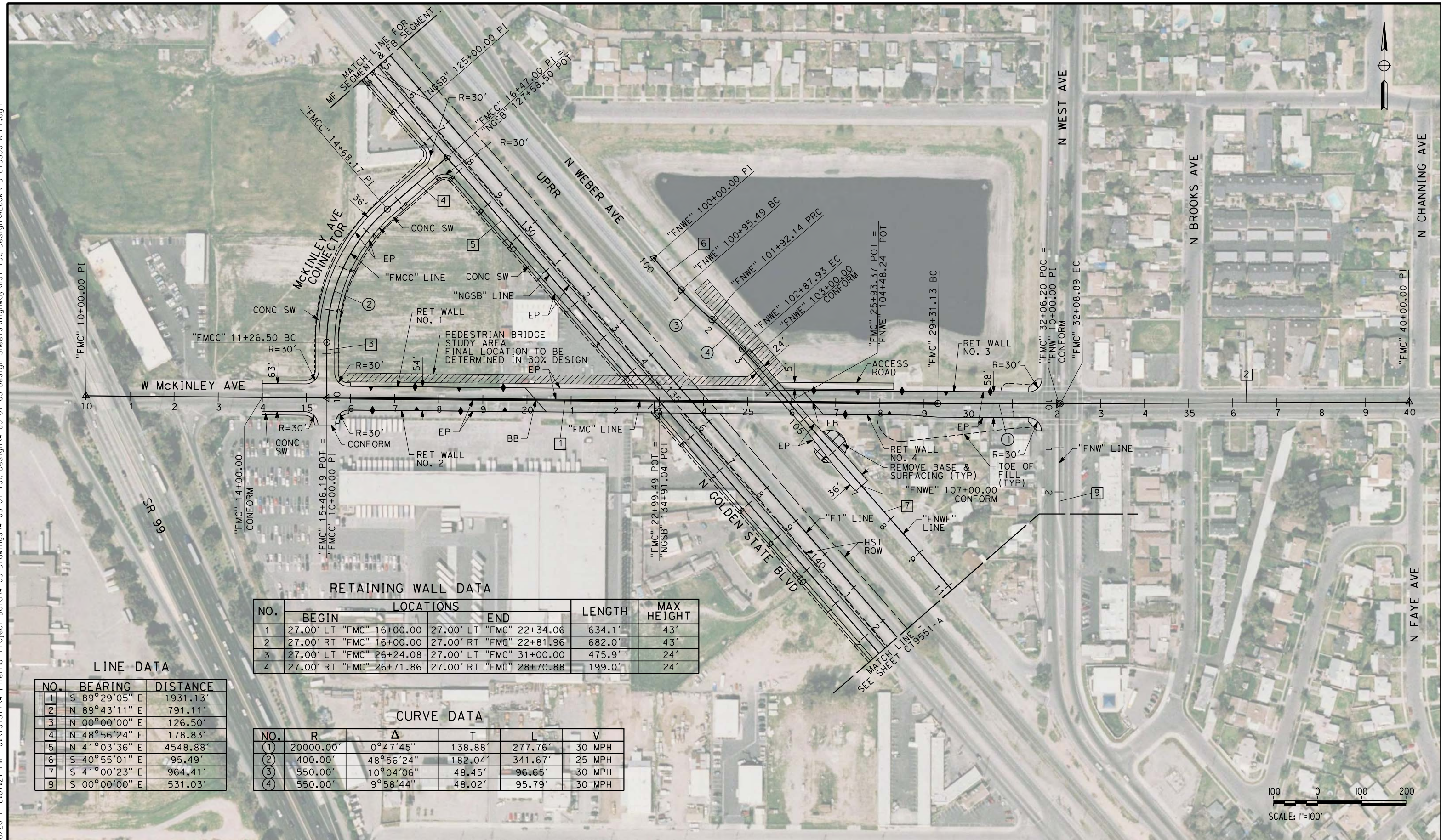


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

CONTRACT NO.	HSR006-007
DRAWING NO.	BR-5
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 23 APR 2011 10:55:00 AM

eron_sudhausen 7/20/2011 6:07:21 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9550-A-F1.dgn



RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	27.00' LT "FMC" 16+00.00	27.00' LT "FMC" 22+34.06	634.1'	43'
2	27.00' RT "FMC" 16+00.00	27.00' RT "FMC" 22+81.96	682.0'	43'
3	27.00' LT "FMC" 26+24.08	27.00' LT "FMC" 31+00.00	475.9'	24'
4	27.00' RT "FMC" 26+71.86	27.00' RT "FMC" 28+70.88	199.0'	24'

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°29'05" E	1931.13'
2	N 89°43'11" E	791.11'
3	N 00°00'00" E	126.50'
4	N 48°56'24" E	178.83'
5	N 41°03'36" E	4548.88'
6	S 40°55'01" E	95.49'
7	S 41°00'23" E	964.41'
9	S 00°00'00" E	531.03'

CURVE DATA

NO.	R	Δ	T	L	V
(1)	20000.00'	0°47'45"	138.88'	277.76'	30 MPH
(2)	400.00'	48°56'24"	182.04'	341.67'	25 MPH
(3)	550.00'	10°04'06"	48.45'	96.65'	30 MPH
(4)	550.00'	9°58'44"	48.02'	95.79'	30 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

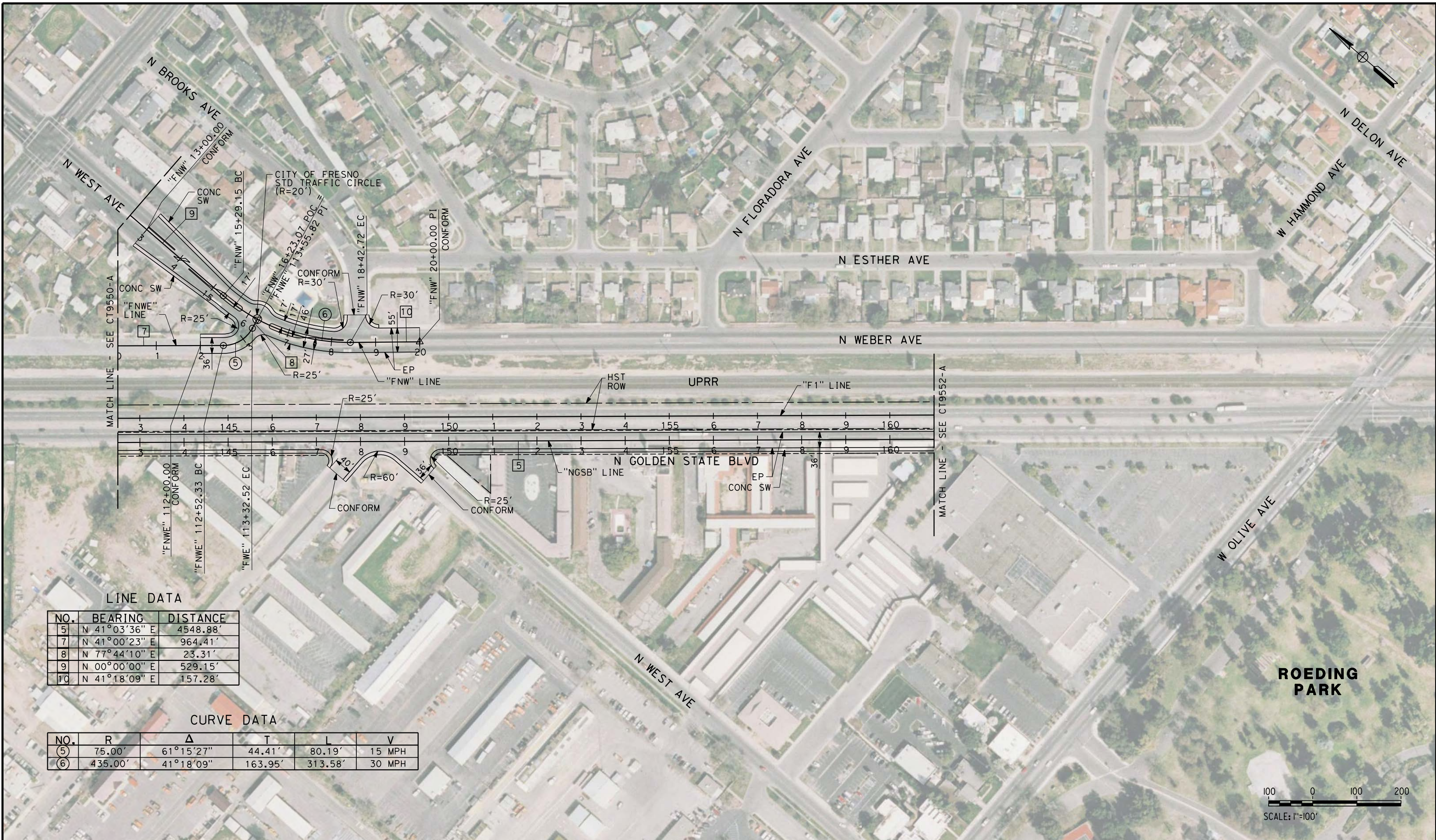
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEPARATION LAYOUT
 W MCKINLEY AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9550-A
 SCALE
AS SHOWN
 SHEET NO.
OF

7/20/2011 6:07:26 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9551-A-F1.dgn

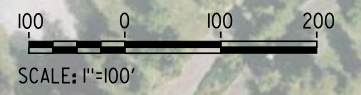


LINE DATA

NO.	BEARING	DISTANCE
5	N 41°03'36" E	4548.88'
7	N 41°00'23" E	964.41'
8	N 77°44'10" E	23.31'
9	N 00°00'00" E	529.15'
10	N 41°18'09" E	157.28'

CURVE DATA

NO.	R	Δ	T	L	V
5	75.00'	61°15'27"	44.41'	80.19'	15 MPH
6	435.00'	41°18'09"	163.95'	313.58'	30 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

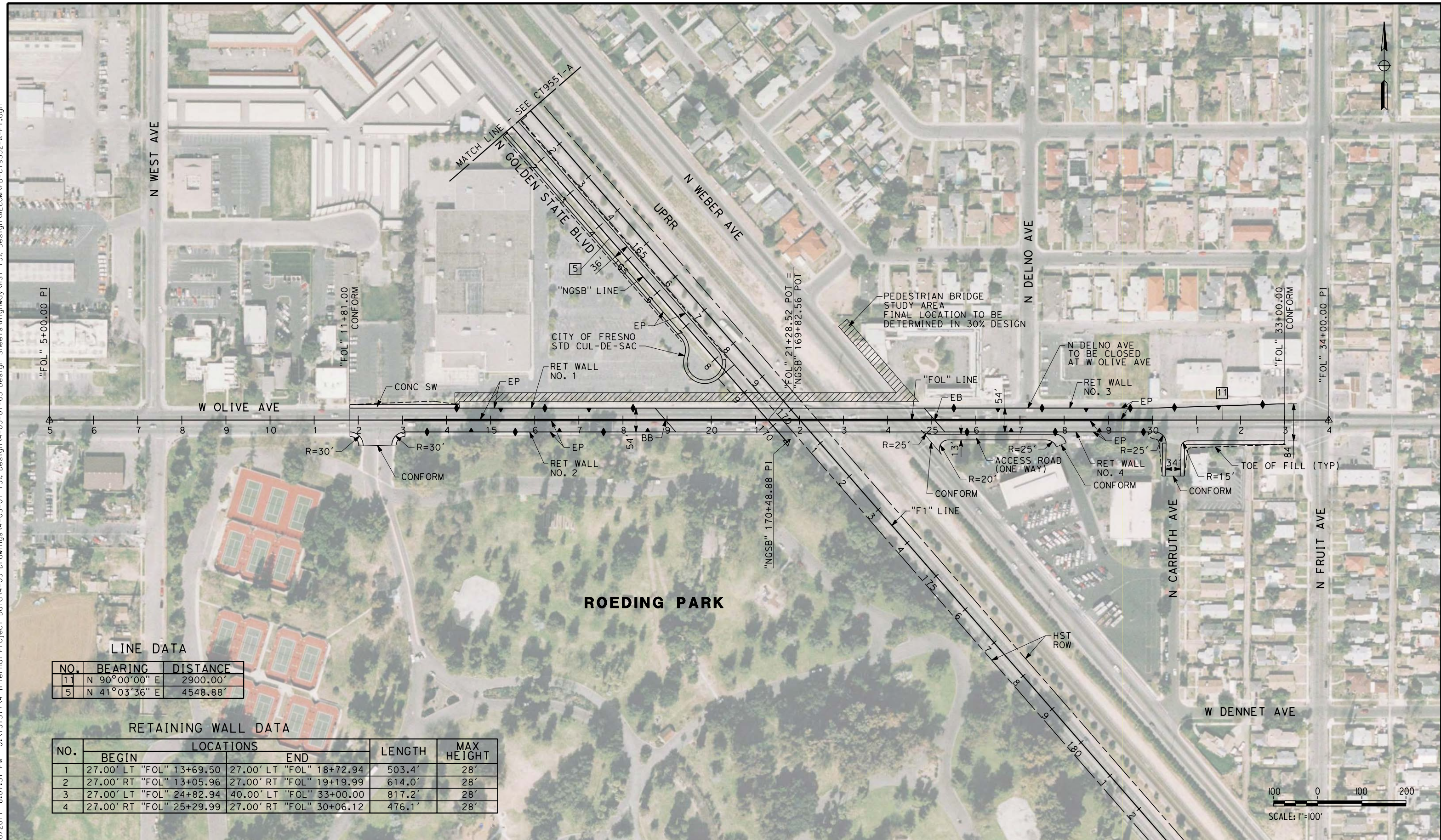
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEPARATION LAYOUT
 N GOLDEN STATE BLVD

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9551-A
 SCALE
AS SHOWN
 SHEET NO.
OF

eron_sudhausen 7/20/2011 6:07:31 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9552-A-F1.dgn

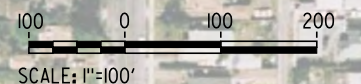


LINE DATA

NO.	BEARING	DISTANCE
11	N 90°00'00" E	2900.00'
5	N 41°03'36" E	4548.88'

RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	27.00' LT "FOL" 13+69.50	27.00' LT "FOL" 18+72.94	503.4'	28'
2	27.00' RT "FOL" 13+05.96	27.00' RT "FOL" 19+19.99	614.0'	28'
3	27.00' LT "FOL" 24+82.94	40.00' LT "FOL" 33+00.00	817.2'	28'
4	27.00' RT "FOL" 25+29.99	27.00' RT "FOL" 30+06.12	476.1'	28'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

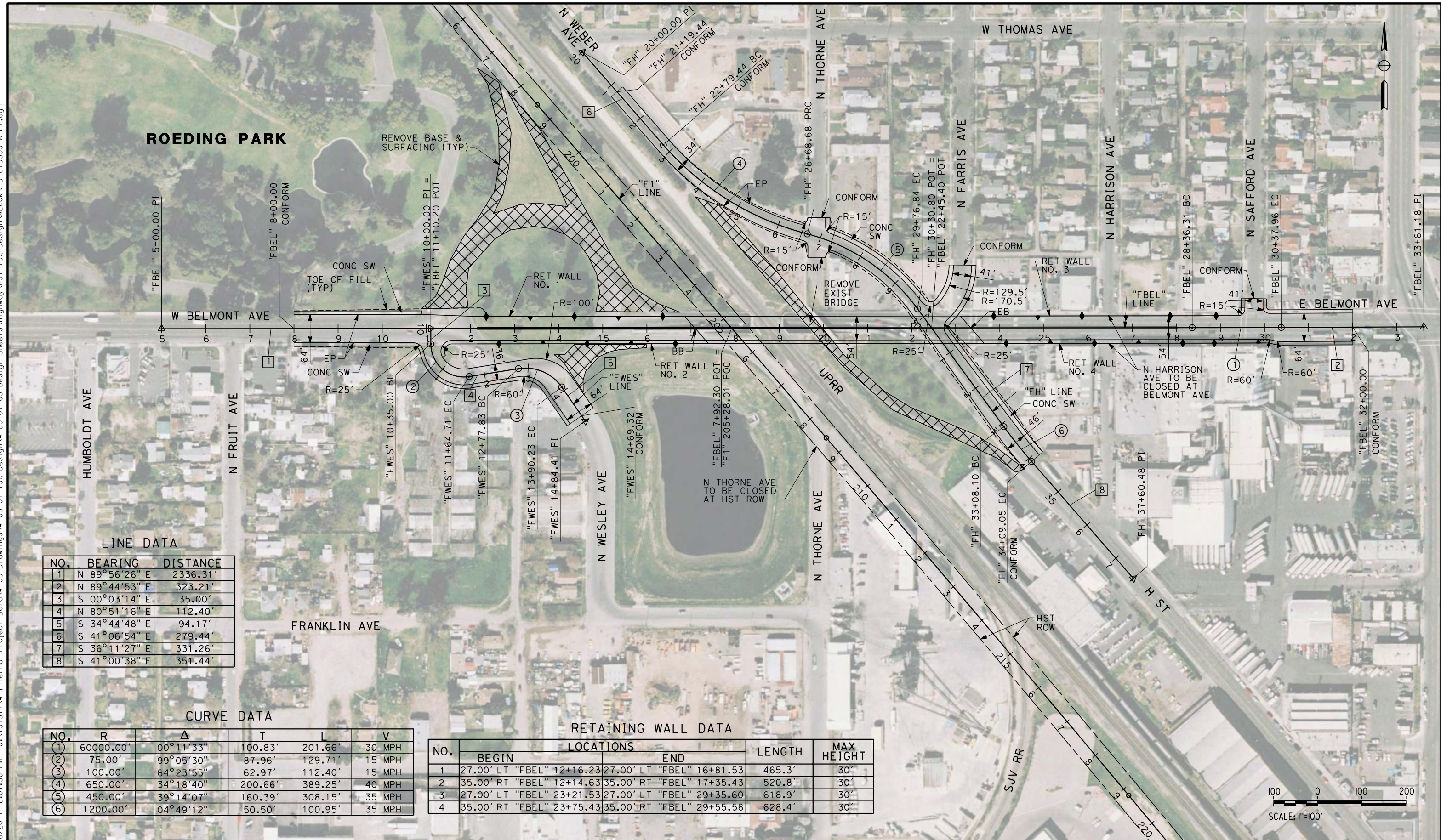
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEPARATION LAYOUT
 W OLIVE AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9552-A
 SCALE
AS SHOWN
 SHEET NO.
OF

eron_sudhausen 7/20/2011 6:07:36 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9553-A-F1.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	N 89°56'26" E	2336.31'
2	N 89°44'53" E	323.21'
3	S 00°03'14" E	35.00'
4	N 80°51'16" E	112.40'
5	S 34°44'48" E	94.17'
6	S 41°06'54" E	279.44'
7	S 36°11'27" E	331.26'
8	S 41°00'38" E	351.44'

CURVE DATA

NO.	R	Δ	T	L	V
①	60000.00'	00°11'33"	100.83'	201.66'	30 MPH
②	75.00'	99°05'30"	87.96'	129.71'	15 MPH
③	100.00'	64°23'55"	62.97'	112.40'	15 MPH
④	650.00'	34°18'40"	200.66'	389.25'	40 MPH
⑤	450.00'	39°14'07"	160.39'	308.15'	35 MPH
⑥	1200.00'	04°49'12"	50.50'	100.95'	35 MPH

RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	27.00' LT "FBEL" 12+16.23	27.00' LT "FBEL" 16+81.53	465.3'	30'
2	35.00' RT "FBEL" 12+14.63	35.00' RT "FBEL" 17+35.43	520.8'	30'
3	27.00' LT "FBEL" 23+21.53	27.00' LT "FBEL" 29+35.60	618.9'	30'
4	35.00' RT "FBEL" 23+75.43	35.00' RT "FBEL" 29+55.58	628.4'	30'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEPARATION LAYOUT
 BELMONT AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9553-A
 SCALE
AS SHOWN
 SHEET NO.
OF

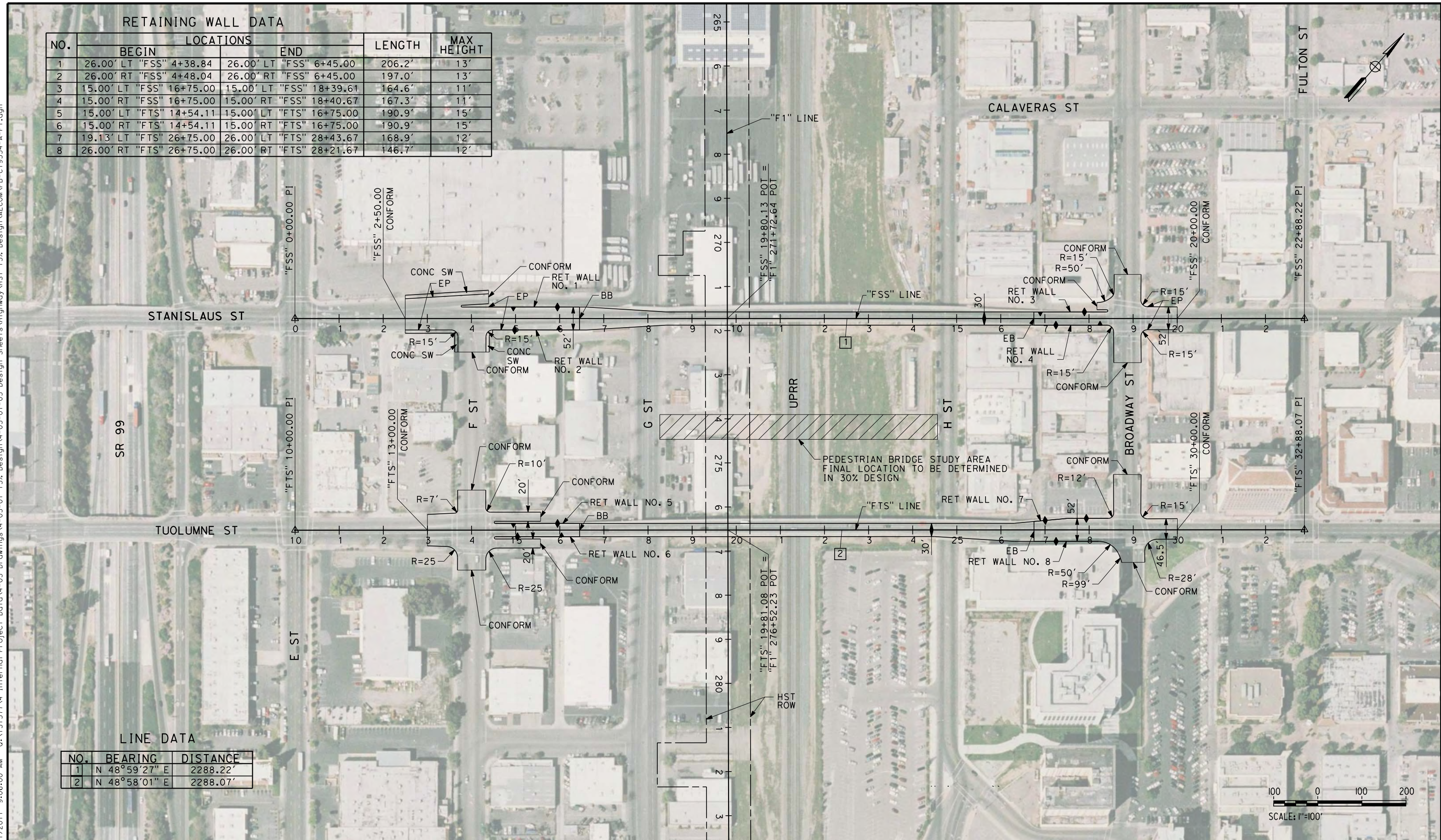
RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	26.00' LT "FSS" 4+38.84	26.00' LT "FSS" 6+45.00	206.2'	13'
2	26.00' RT "FSS" 4+48.04	26.00' RT "FSS" 6+45.00	197.0'	13'
3	15.00' LT "FSS" 16+75.00	15.00' LT "FSS" 18+39.61	164.6'	11'
4	15.00' RT "FSS" 16+75.00	15.00' RT "FSS" 18+40.67	167.3'	11'
5	15.00' LT "FTS" 14+54.11	15.00' LT "FTS" 16+75.00	190.9'	15'
6	15.00' RT "FTS" 14+54.11	15.00' RT "FTS" 16+75.00	190.9'	15'
7	19.13' LT "FTS" 26+75.00	26.00' LT "FTS" 28+43.67	168.9'	12'
8	26.00' RT "FTS" 26+75.00	26.00' RT "FTS" 28+21.67	146.7'	12'

LINE DATA

NO.	BEARING	DISTANCE
1	N 48°59'27" E	2288.22'
2	N 48°58'01" E	2288.07'

7/21/2011 9:06:00 AM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\AECOM\FB-CT9554-A-F1.dgn
 eron_sudhausen



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEPARATION LAYOUT
 STANISLAUS ST AND TUOLUMNE ST

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9554-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA

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

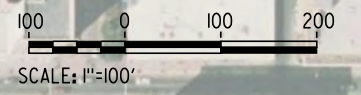
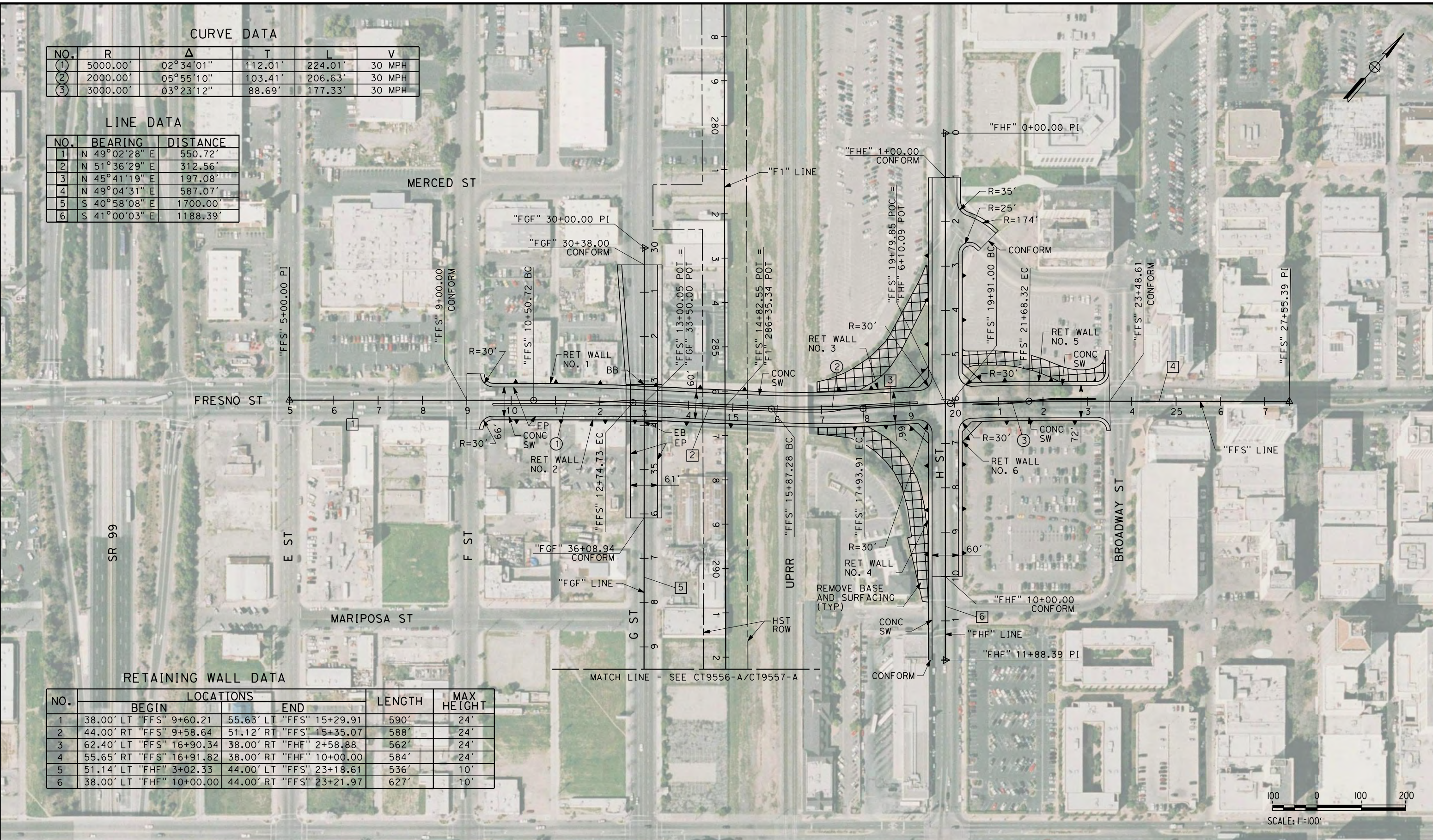
LINE DATA

NO.	BEARING	DISTANCE
1	N 49°02'28" E	550.72'
2	N 51°36'29" E	312.56'
3	N 45°41'19" E	197.08'
4	N 49°04'31" E	587.07'
5	S 40°58'08" E	1700.00'
6	S 41°00'03" E	1188.39'

RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	38.00' LT "FFS" 9+60.21	55.63' LT "FFS" 15+29.91	590'	24'
2	44.00' RT "FFS" 9+58.64	51.12' RT "FFS" 15+35.07	588'	24'
3	62.40' LT "FFS" 16+90.34	38.00' RT "FHF" 2+58.88	562'	24'
4	55.65' RT "FFS" 16+91.82	38.00' RT "FHF" 10+00.00	584'	24'
5	51.14' LT "FHF" 3+02.33	44.00' LT "FFS" 23+18.61	536'	10'
6	38.00' LT "FHF" 10+00.00	44.00' RT "FFS" 23+21.97	627'	10'

7/20/2011 6:07:48 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9555-A-F1.dgn



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**

**NOT FOR
CONSTRUCTION**



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

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9555-A
 SCALE
AS SHOWN
 SHEET NO.
OF

LINE DATA

NO.	BEARING	DISTANCE
6	N 48°54'51" E	2564.41'

RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	23.00' LT "FTU" 6+00.00	23.00' LT "FTU" 12+55.00	655.0'	27'
2	13.00' RT "FTU" 6+00.00	13.00' RT "FTU" 12+55.00	655.0'	27'
3	23.00' LT "FTU" 20+35.00	31.97' LT "FTU" 26+00.00	565.3'	26'
4	13.00' RT "FTU" 20+35.00	13.00' RT "FTU" 26+00.00	565.0'	26'

7/20/2011 6:07:53 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9556-A-F1.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9556-A
 SCALE
AS SHOWN
 SHEET NO.
OF

7/20/2011 6:07:57 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\Sheets\Highway\HST 15% Design\AECOM\FB-CT9557-A-F1.dgn



LINE DATA

NO.	BEARING	DISTANCE
5	S 40°58'08" E	1700.00
6	N 48°54'51" E	2564.41'

RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	15.00' LT "FTU" 9+41.00	15.00' LT "FTU" 19+25.00	984.0'	30'
2	28.00' RT "FTU" 9+41.00	28.00' RT "FTU" 19+25.00	984.0'	30'
3	15.00' RT "FTU" 9+41.00	15.00' RT "FTU" 19+25.00	984.0'	10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
A. LUFT
DATE
05/13/11

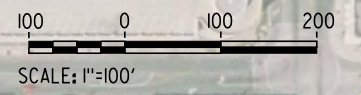
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9557-A
SCALE
AS SHOWN
SHEET NO.
OF



CURVE DATA

NO.	R	Δ	T	L	V
①	10000.00'	01°15'13"	109.39'	218.77'	30 MPH
②	10000.00'	01°07'47"	98.59'	197.17'	30 MPH

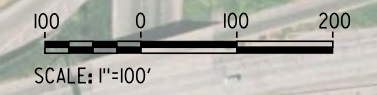
LINE DATA

NO.	BEARING	DISTANCE
1	N 49°02'50" E	1368.36'
2	N 50°18'02" E	184.02'
3	N 49°10'15" E	687.13'

RETAINING WALL DATA

NO.	LOCATIONS		LENGTH	MAX HEIGHT
	BEGIN	END		
1	26.00' LT "FVE" 9+55.00	26.00' LT "FVE" 12+55.00	300.0'	24'
2	26.00' RT "FVE" 9+55.00	26.00' RT "FVE" 12+55.00	300.0'	24'
3	26.00' LT "FVE" 20+55.00	26.00' LT "FVE" 22+71.15	216.2'	22'
4	26.00' RT "FVE" 20+55.00	38.00' RT "FVE" 22+71.15	216.9'	22'

eron_sudhausen 7/20/2011 6:08:02 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\AECOM\FB-CT9558-A-F1.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
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E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



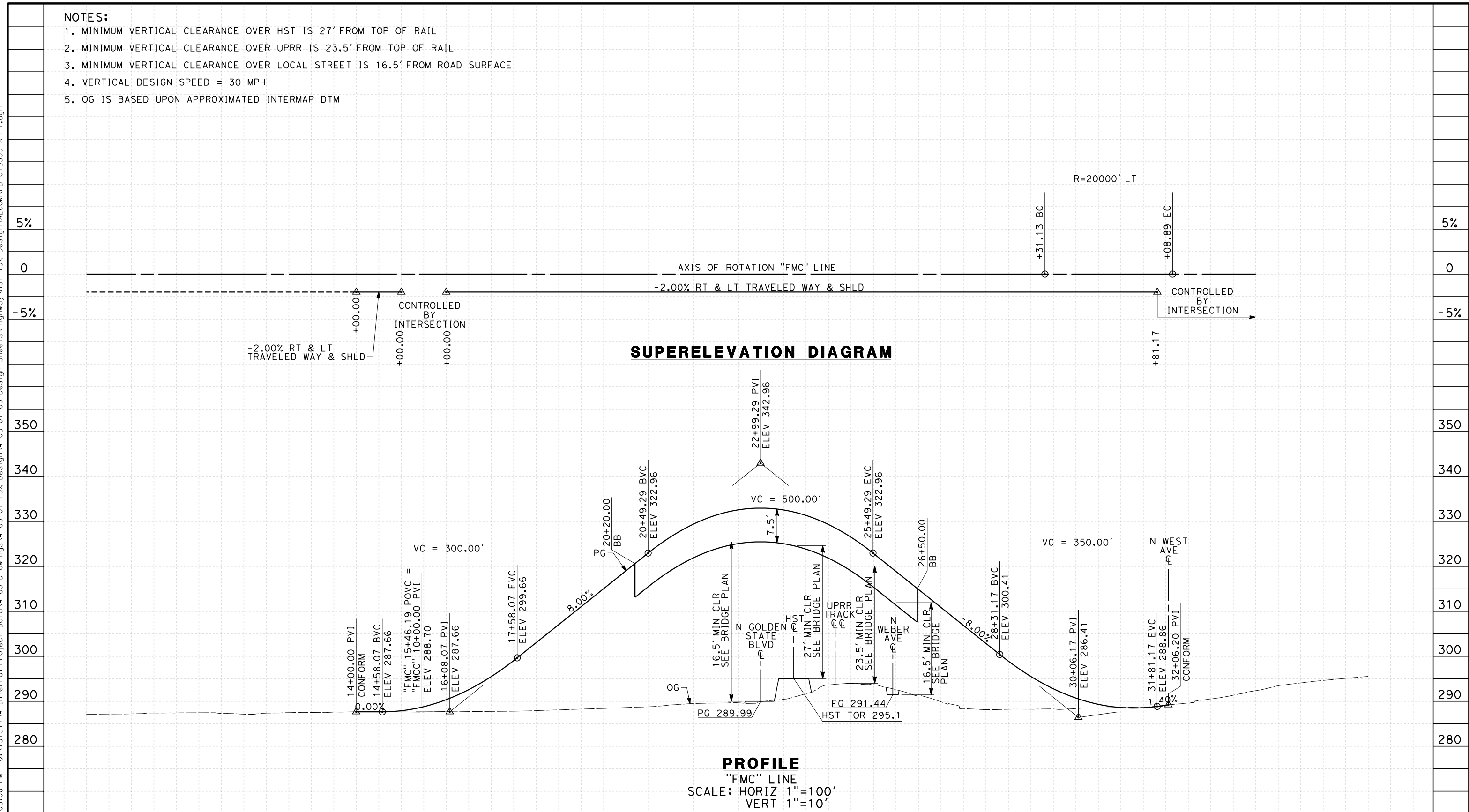
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEPARATION LAYOUT
 VENTURA ST

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9558-A
 SCALE
AS SHOWN
 SHEET NO.
OF

NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
4. VERTICAL DESIGN SPEED = 30 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM

7/20/2011 6:08:06 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\AECOM\FB-CT9559-A-F1.dgn



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

DESIGNED BY	K. MING
DRAWN BY	E. SUDHAUSEN
CHECKED BY	J. MONG
IN CHARGE	A. LUFT
DATE	05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

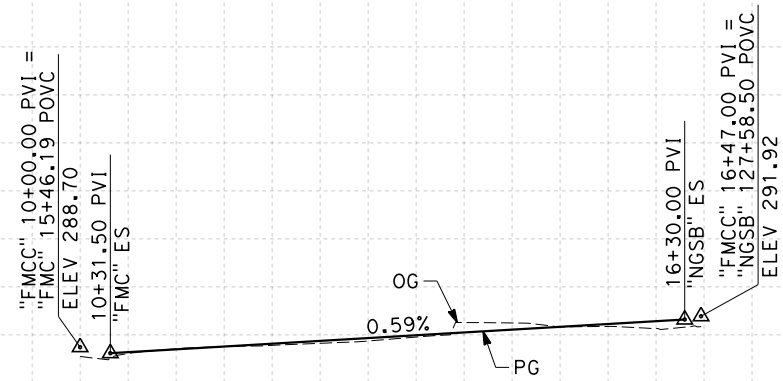
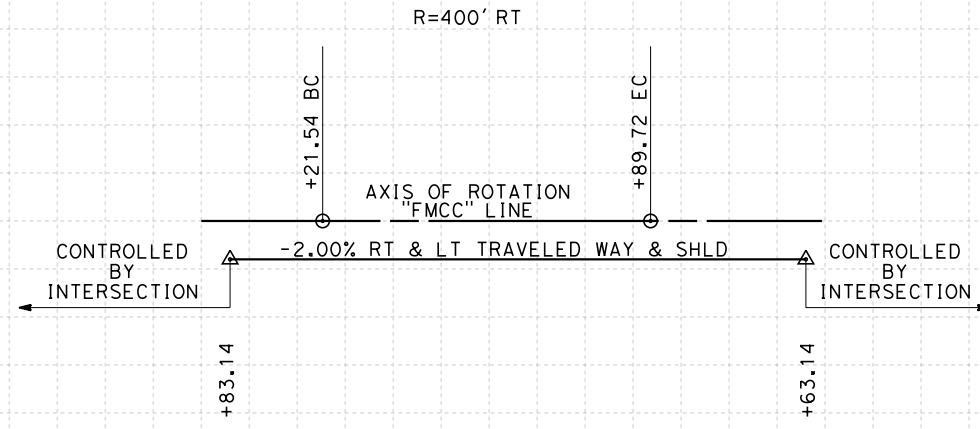


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 W MCKINLEY AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT9559-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

- NOTES:**
1. VERTICAL DESIGN SPEED = 25 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 3. REFER TO SHEET CT 1001 FOR LAYOUT



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
A. LUFT
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

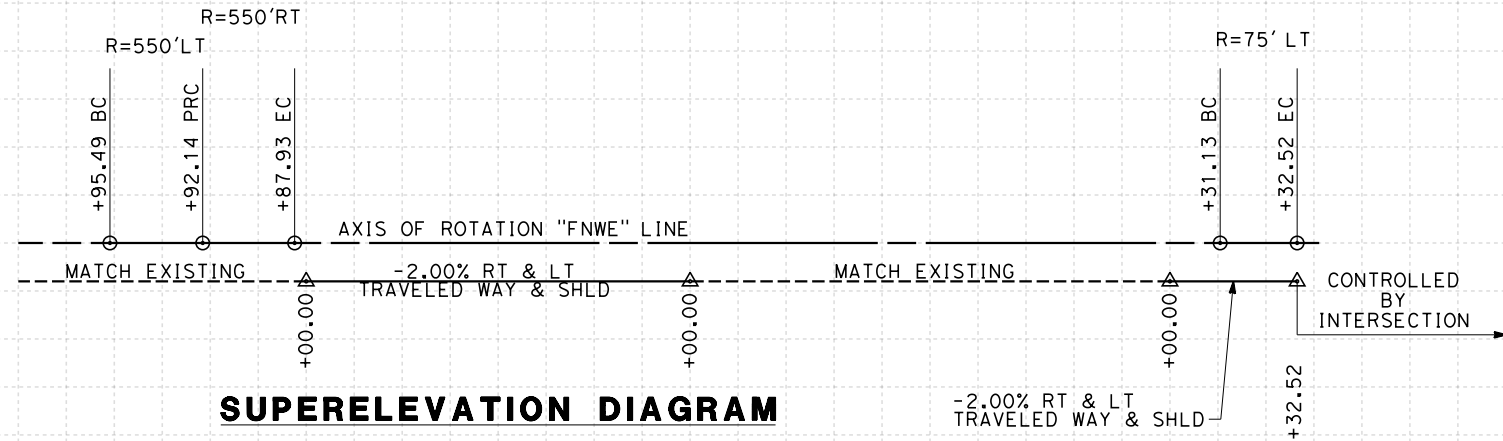
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
McKINLEY AVE CONNECTOR

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9560-A
SCALE
AS SHOWN
SHEET NO.
OF

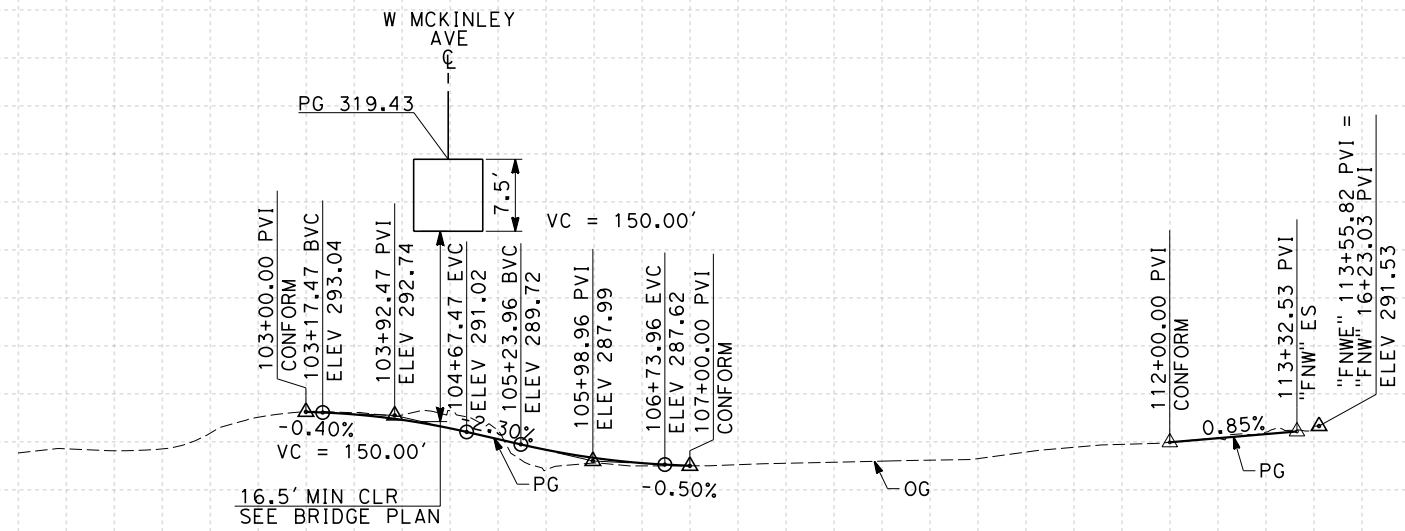
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NOTES:

1. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE
2. VERTICAL DESIGN SPEED = 25 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
4. REFER TO SHEET CT1001 FOR LAYOUT



SUPERELEVATION DIAGRAM



PROFILE

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

STATION	100	1	2	3	4	105	6	7	8	9	110	1	2	3	4	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
A. LUFT
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

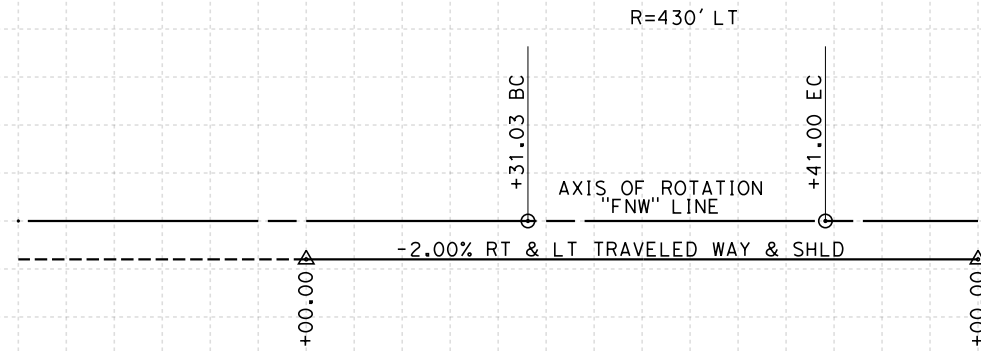


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
N WEBER AVE

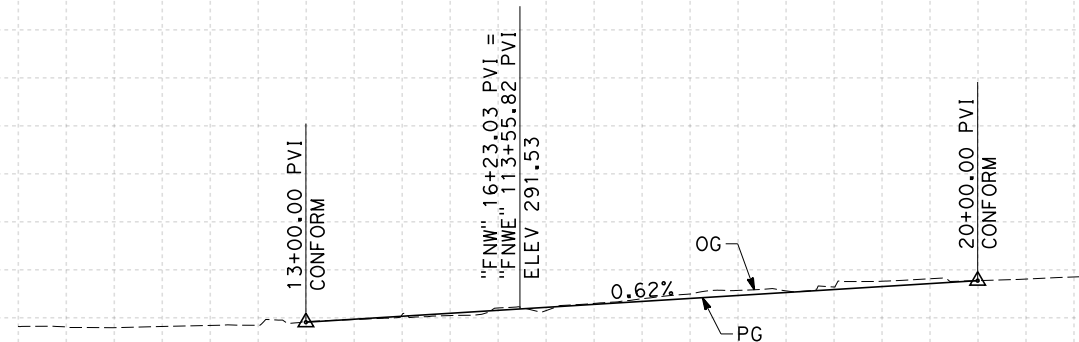
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9561-A
SCALE
AS SHOWN
SHEET NO.
OF

7/20/2011 6:08:09 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9561-A-F1.dgn

- NOTES:**
1. VERTICAL DESIGN SPEED = 25 MPH AT TRAFFIC CIRCLE
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 3. REFER TO SHEET CT1001 FOR LAYOUT



SUPERELEVATION DIAGRAM



PROFILE

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

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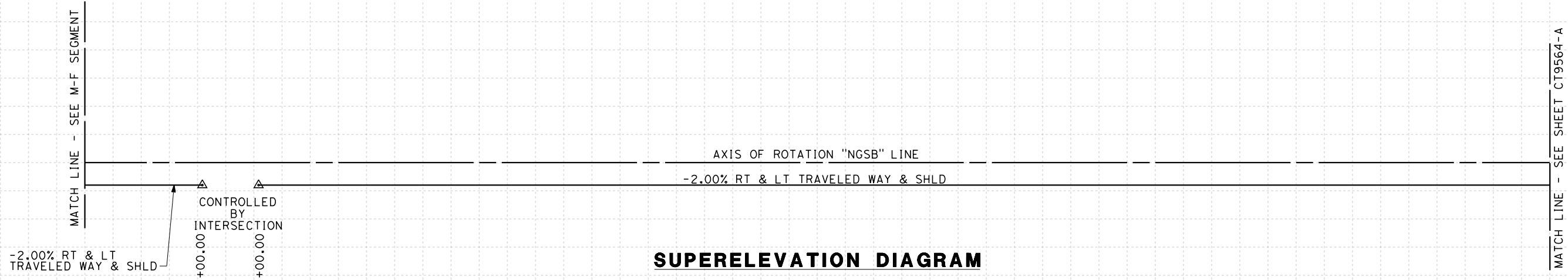
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 N WEST AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9562-A
 SCALE
AS SHOWN
 SHEET NO.
OF

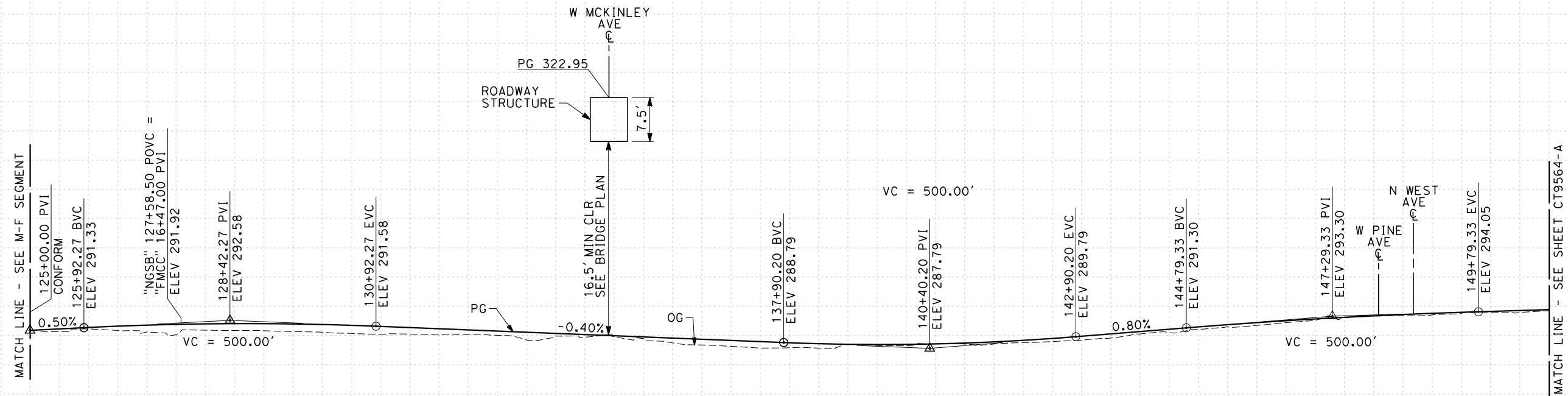
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NOTES:

1. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE.
2. VERTICAL DESIGN SPEED = 50 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
4. REFER TO SHEET CT1001, CT1005, AND CT1007 FOR LAYOUT



SUPERELEVATION DIAGRAM



PROFILE

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

STATION	125	6	7	8	9	130	1	2	3	4	135	6	7	8	9	140	1	2	3	4	145	6	7	8	9	150	1	TOTAL
Exc																												
Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
A. LUFT
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

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CONSTRUCTION**

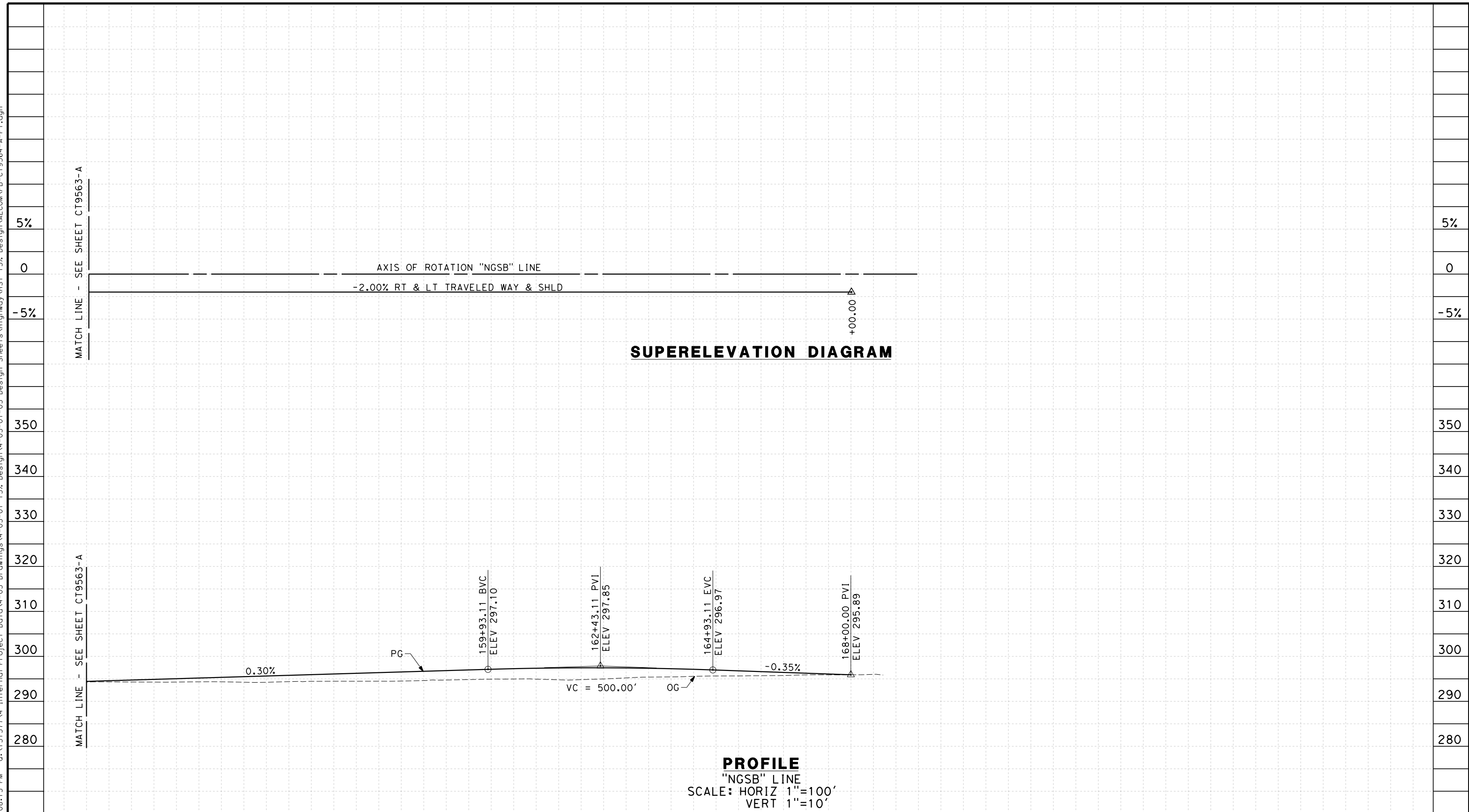


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
N GOLDEN STATE BLVD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9563-A
SCALE
AS SHOWN
SHEET NO.
OF

7/20/2011 6:08:13 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9563-A-F1.dgn

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

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CONSTRUCTION**



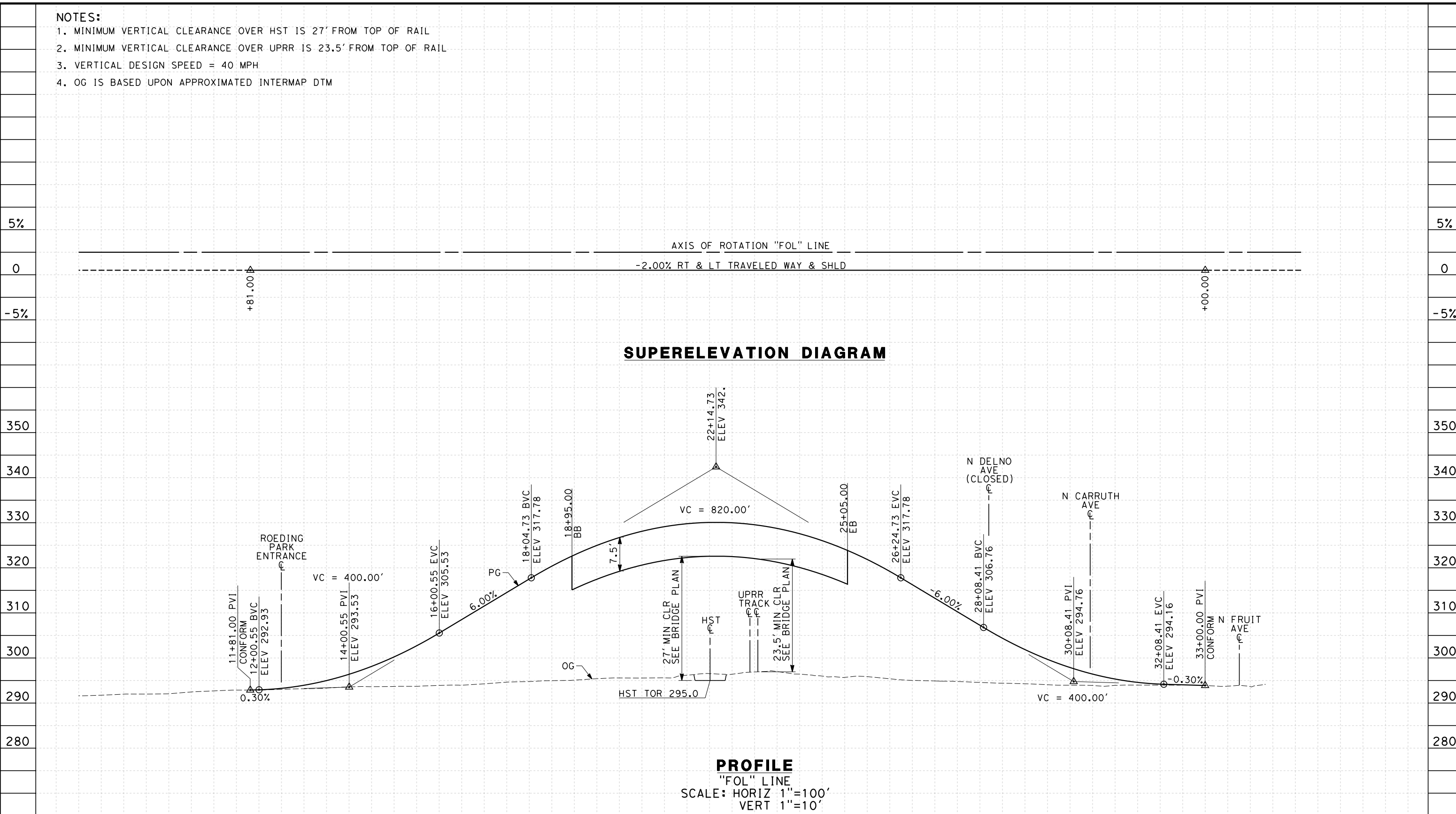
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 N GOLDEN STATE BLVD

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9564-A
 SCALE
AS SHOWN
 SHEET NO.
OF

NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
3. VERTICAL DESIGN SPEED = 40 MPH
4. OG IS BASED UPON APPROXIMATED INTERMAP DTM

7/20/2011 6:08:17 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9565-A-F1.dgn



SUPERELEVATION DIAGRAM

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 K. MING
 DRAWN BY
 E. SUDHAUSEN
 CHECKED BY
 J. MONG
 IN CHARGE
 A. LUFT
 DATE
 05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

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 CONSTRUCTION**



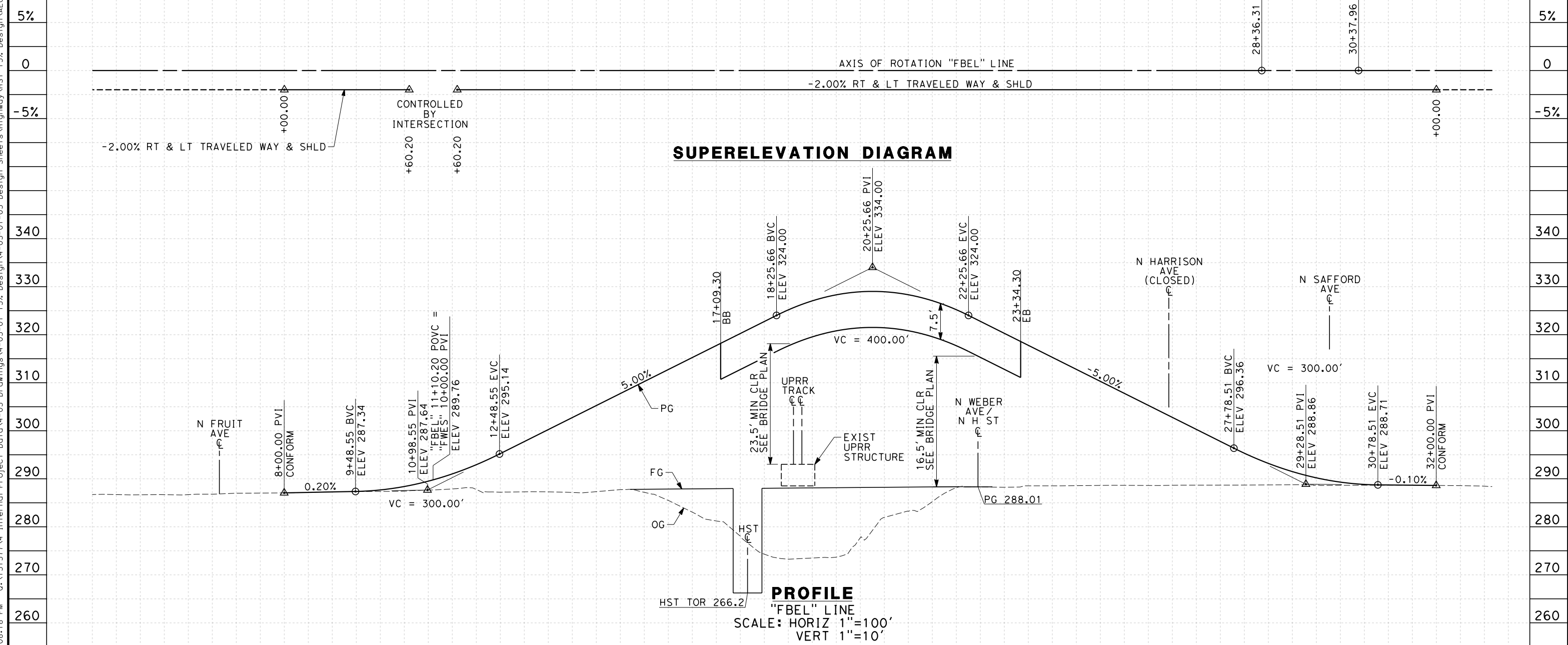
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 W OLIVE AVE

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9565-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

eron_sudhausen 7/20/2011 6:08:18 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9566-A-F1.dgn

NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
4. VERTICAL DESIGN SPEED = 30 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM



STATION	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	TOTAL	
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

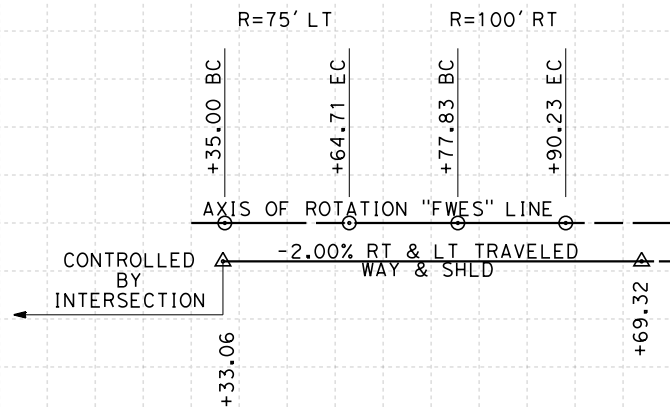
**NOT FOR
CONSTRUCTION**



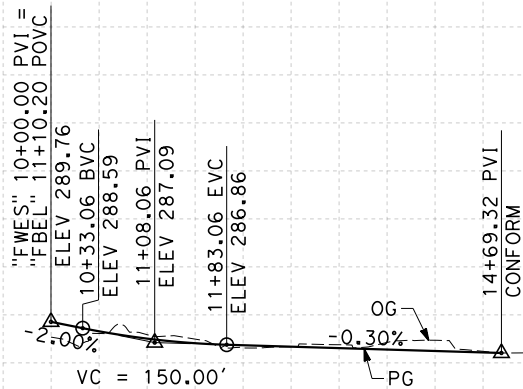
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 BELMONT AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9566-A
 SCALE
AS SHOWN
 SHEET NO.
OF

- NOTES:**
1. VERTICAL DESIGN SPEED = 25 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 3. REFER TO SHEET CT1008 FOR LAYOUT



SUPERELEVATION DIAGRAM



PROFILE

"FWES" 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
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

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



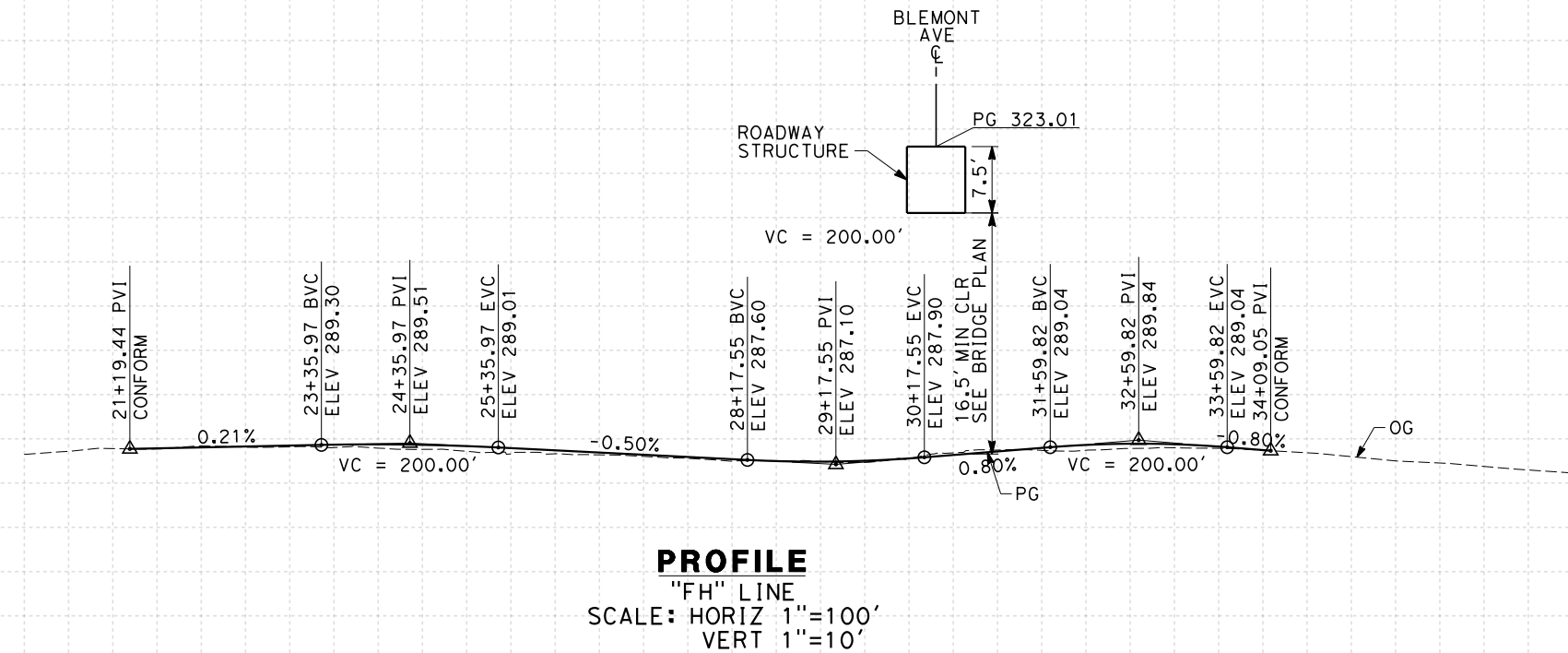
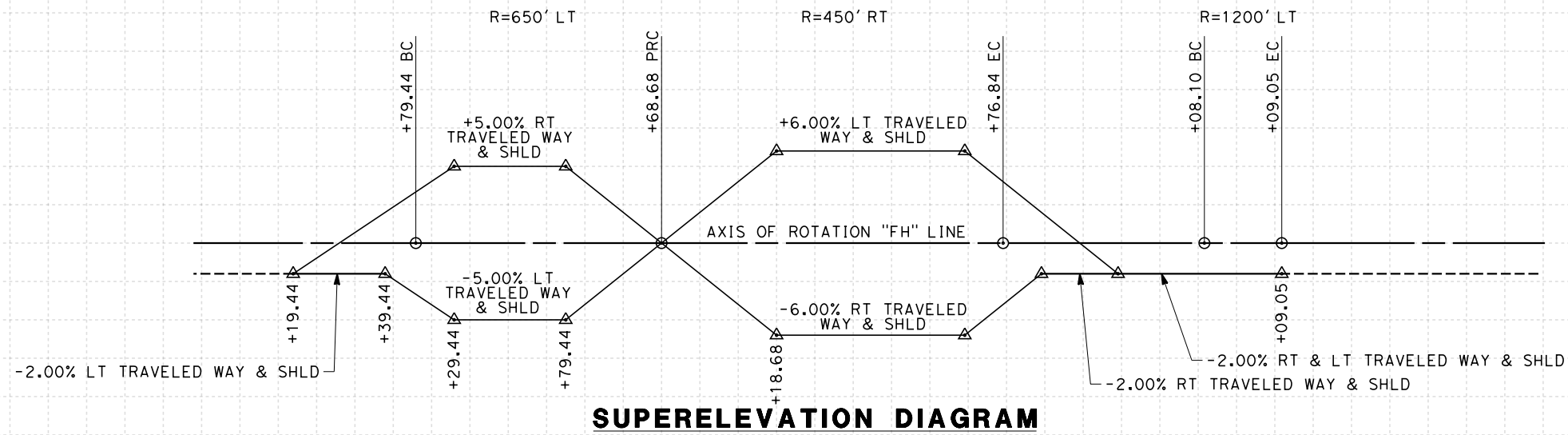
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 N WESLEY AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9567-A
 SCALE
AS SHOWN
 SHEET NO.
OF

er-on-sudhausen 7/20/2011 6:08:20 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9567-A-F1.dgn

NOTES:

1. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE
2. VERTICAL DESIGN SPEED = 35 MPH
3. OG IS BASED UPON APPROXIMATED INTERMAP DTM
4. REFER TO SHEET CT1008 FOR LAYOUT



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
A. LUFT
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
N H ST

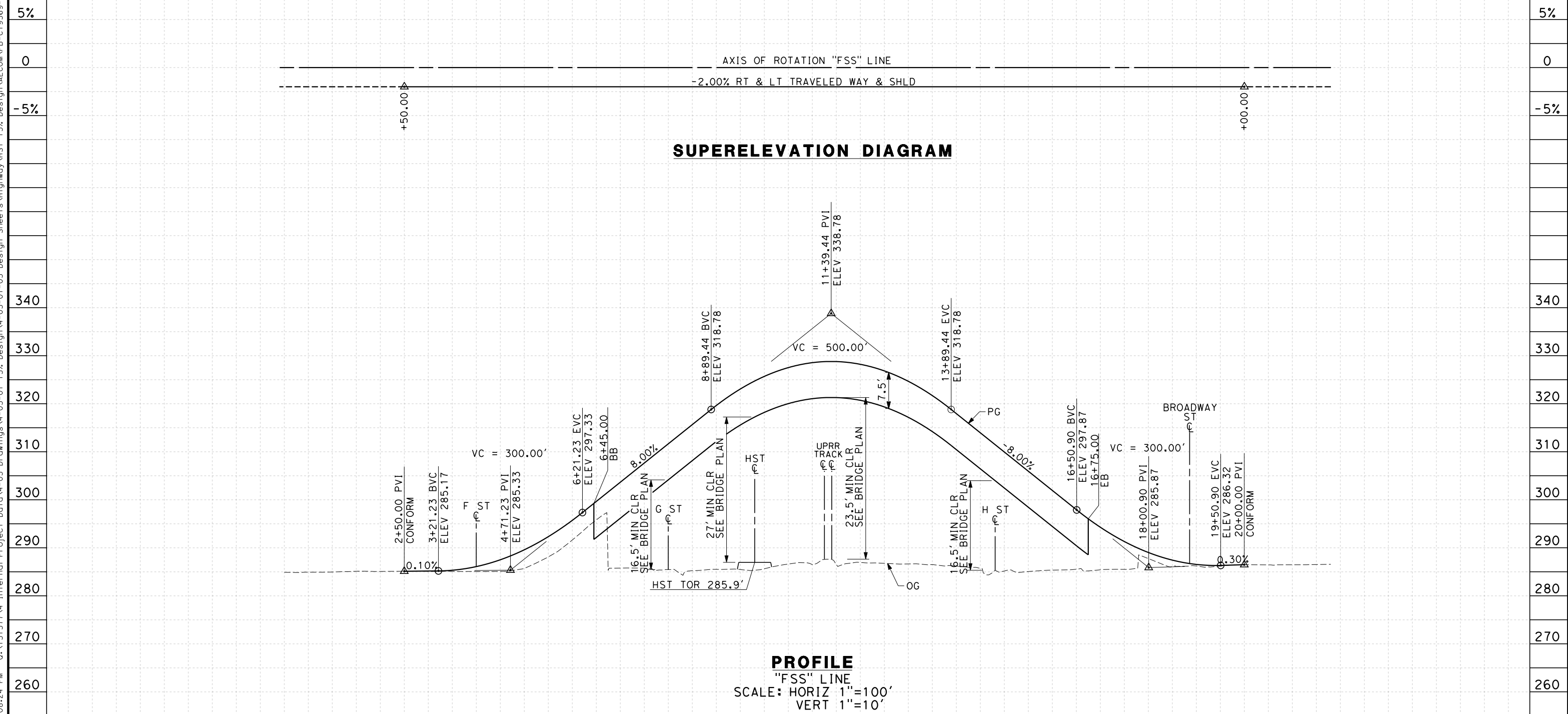
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9568-A
SCALE
AS SHOWN
SHEET NO.
OF

7/20/2011 6:08:22 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9568-A-F1.dgn

NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
4. VERTICAL DESIGN SPEED = 30 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM

7/20/2011 6:08:24 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9569-A-F1.dgn



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 K. MING
 DRAWN BY
 E. SUDHAUSEN
 CHECKED BY
 J. MONG
 IN CHARGE
 A. LUFT
 DATE
 05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



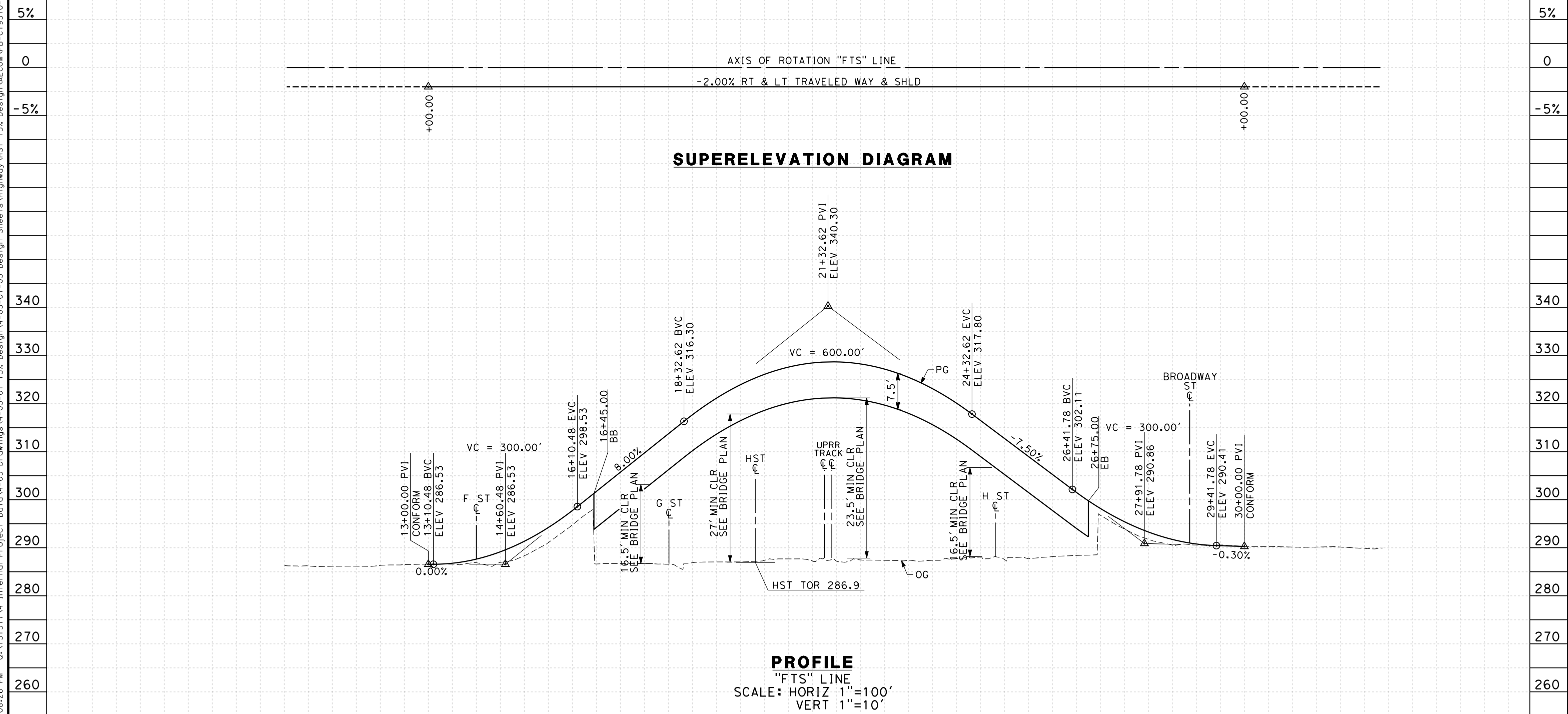
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 STANISLAUS ST

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9569-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 23.5' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
4. VERTICAL DESIGN SPEED = 30 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM

eron_sudhausen 7/20/2011 6:08:26 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9570-A-F1.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	3	TOTAL	
Exc																										
Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 K. MING
 DRAWN BY
 E. SUDHAUSEN
 CHECKED BY
 J. MONG
 IN CHARGE
 A. LUFT
 DATE
 05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



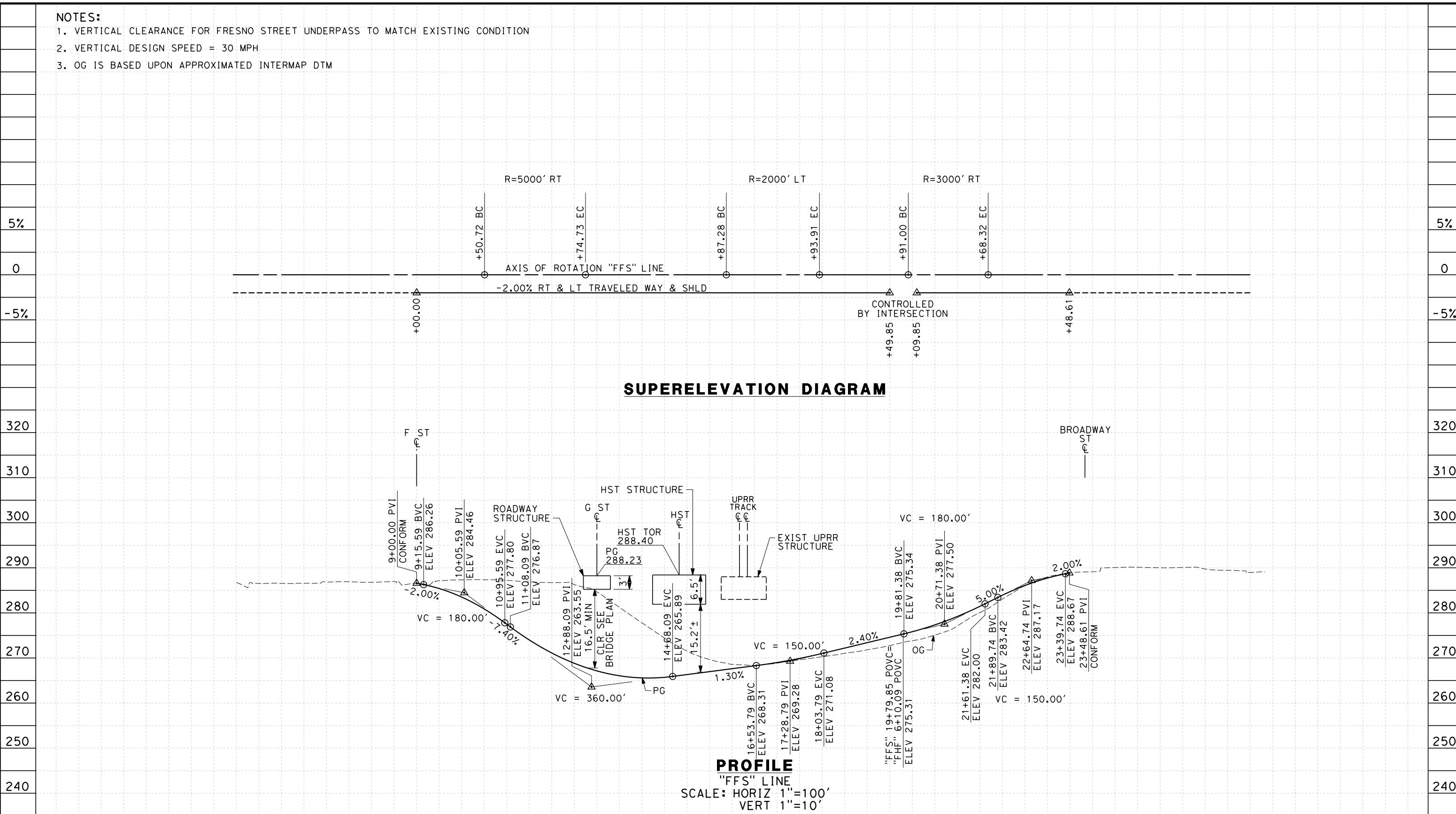
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 TUOLUMNE ST

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9570-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

NOTES:

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

7/20/2011 6:08:27 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\AECOM\FB-CT9571-A-F1.dgn



SUPERELEVATION DIAGRAM

PROFILE

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

STATION	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	TOTAL
Exc																													
Emb																													

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**

**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 FRESNO ST

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9571-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

- NOTES:**
1. VERTICAL DESIGN SPEED = 40 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM
 3. REFER TO SHEET CT1013 FOR LAYOUT

5%

0

-5%

300

290

280

270

260

STATION

Exc
Emb

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**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
H ST (FRESNO ST)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9572-A
SCALE
AS SHOWN
SHEET NO.
OF

5%

0

-5%

300

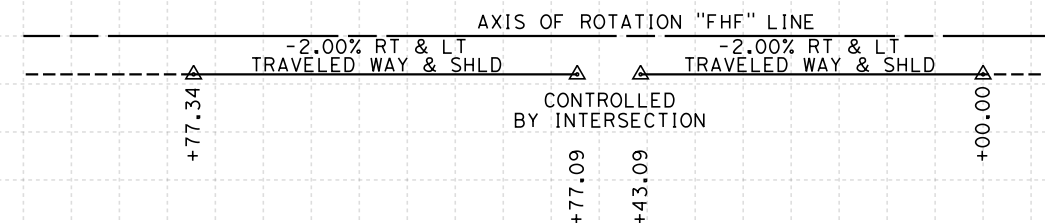
290

280

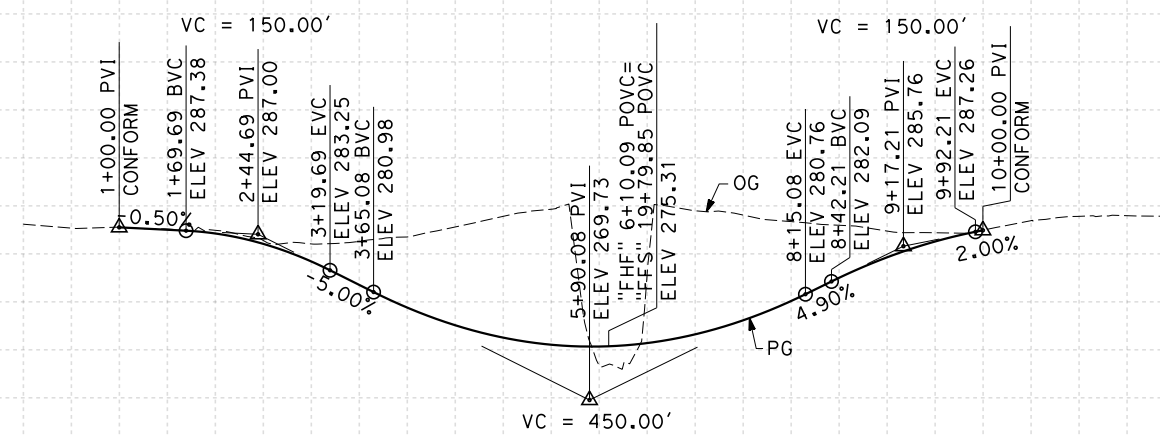
270

260

TOTAL



SUPERELEVATION DIAGRAM



PROFILE

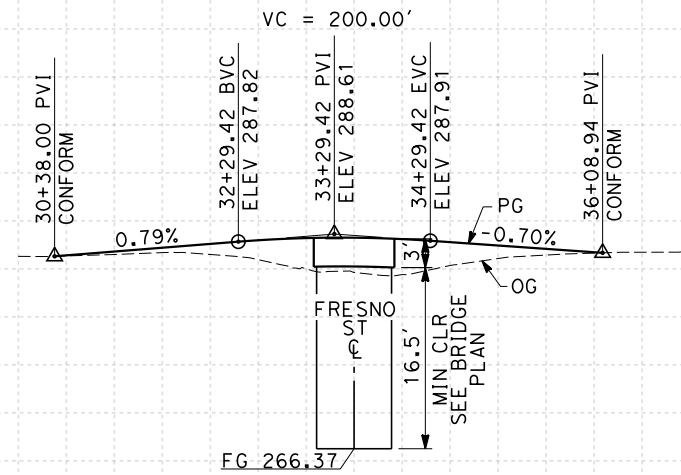
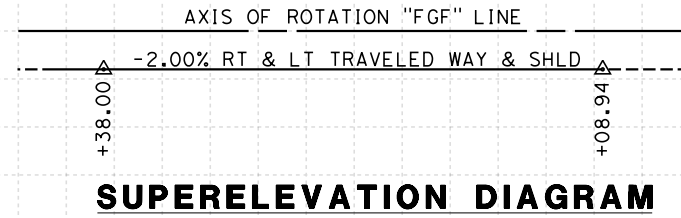
"FHF" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

0	1	2	3	4	5	6	7	8	9	10	1	2	3	TOTAL
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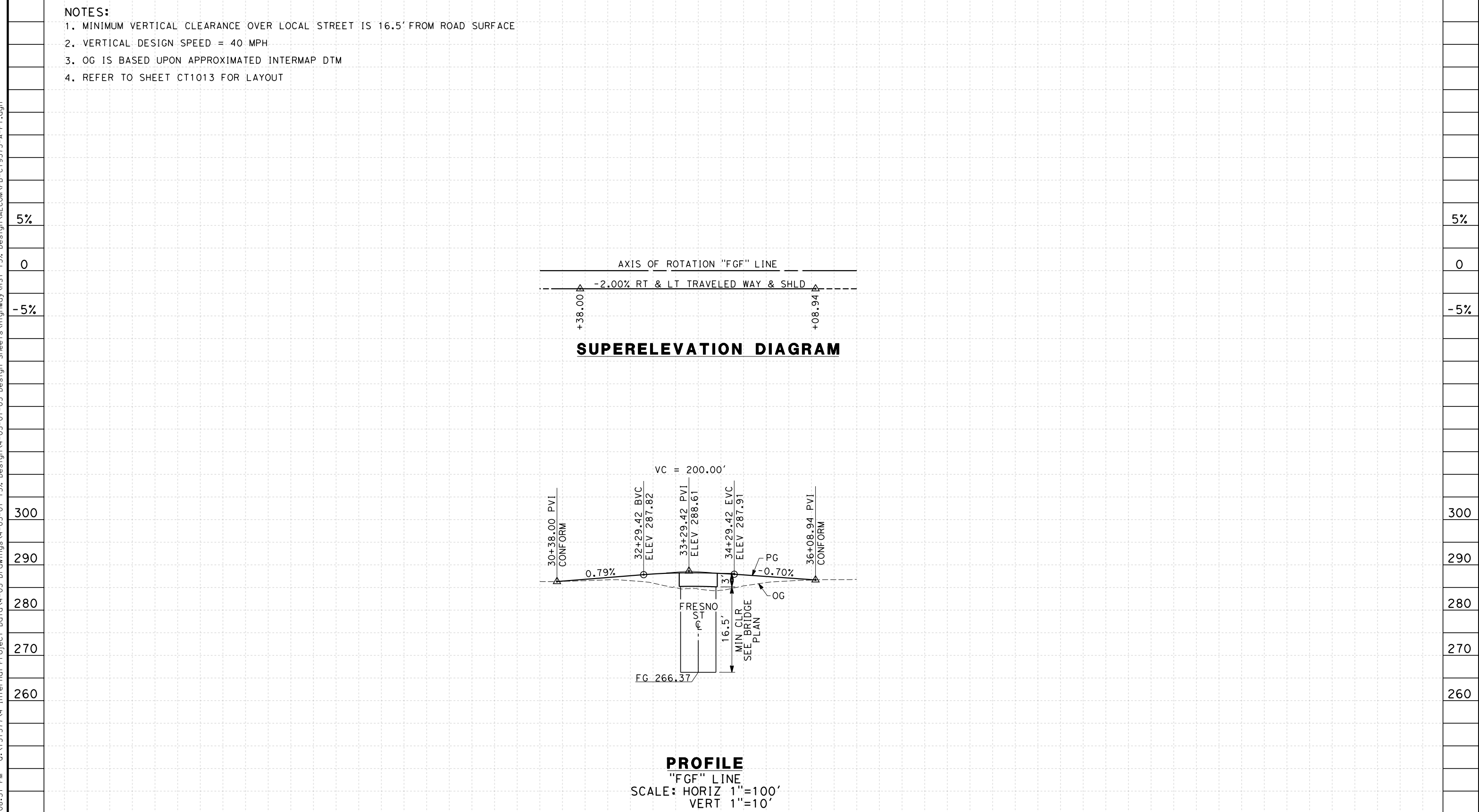
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NOTES:

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



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



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 G ST (FRESNO ST)

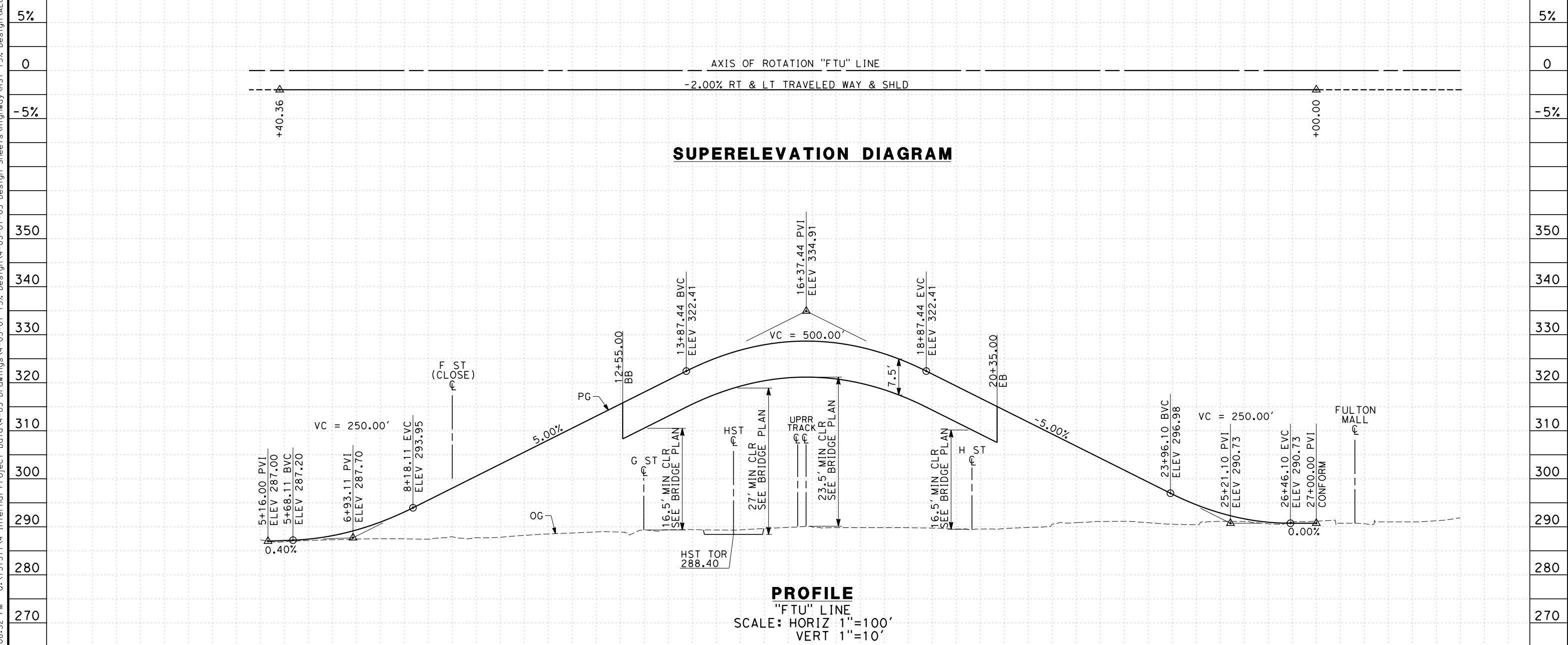
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9573-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
4. VERTICAL DESIGN SPEED = 30 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM

7/20/2011 6:08:32 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9574-A-F1.dgn



STATION	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	TOTAL		
Exc																																							
Emb																																							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 K. MING
 DRAWN BY
 E. SUDHAUSEN
 CHECKED BY
 J. MONG
 IN CHARGE
 A. LUFT
 DATE
 05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



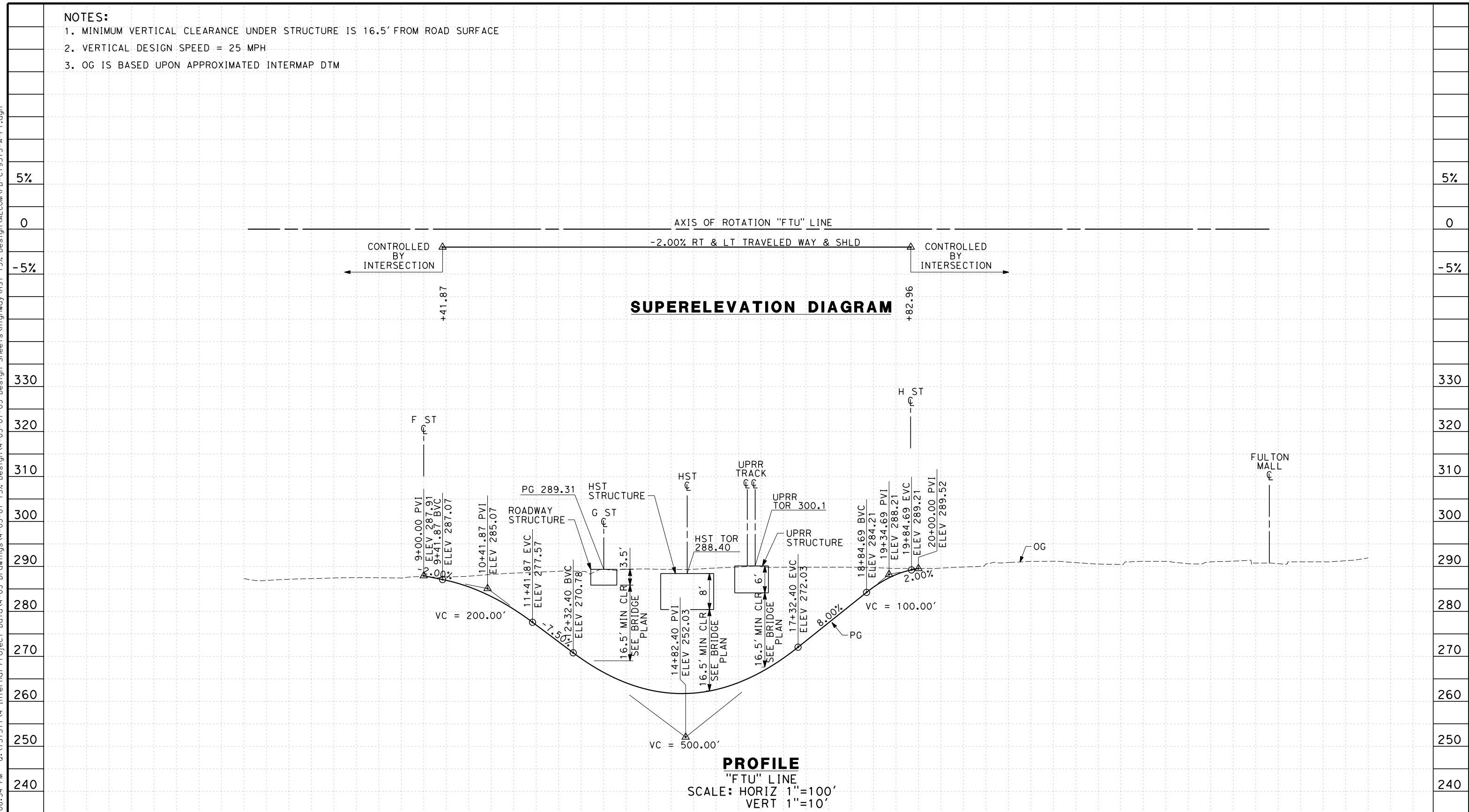
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 TULARE ST (OVERHEAD)

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9574-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

NOTES:

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

7/20/2011 6:08:34 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\AECOM\FB-CT9575-A-F1.dgn



STATION	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL	
Exc																												
Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 TULARE ST (UNDERPASS)

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9575-A
 SCALE
AS SHOWN
 SHEET NO.
OF

NOTES:

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

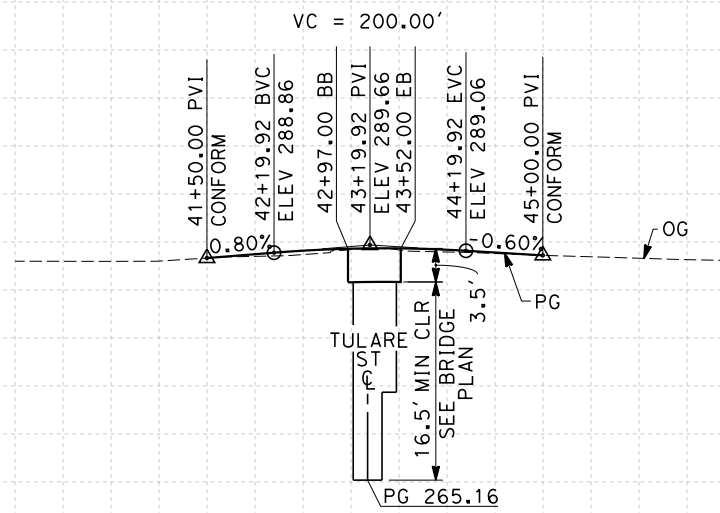
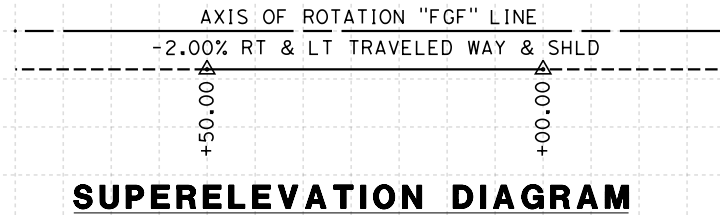
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5%
0
-5%

320
310
300
290
280
270
260

5%
0
-5%

320
310
300
290
280
270
260



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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 K. MING
 DRAWN BY
 E. SUDHAUSEN
 CHECKED BY
 J. MONG
 IN CHARGE
 A. LUFT
 DATE
 05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



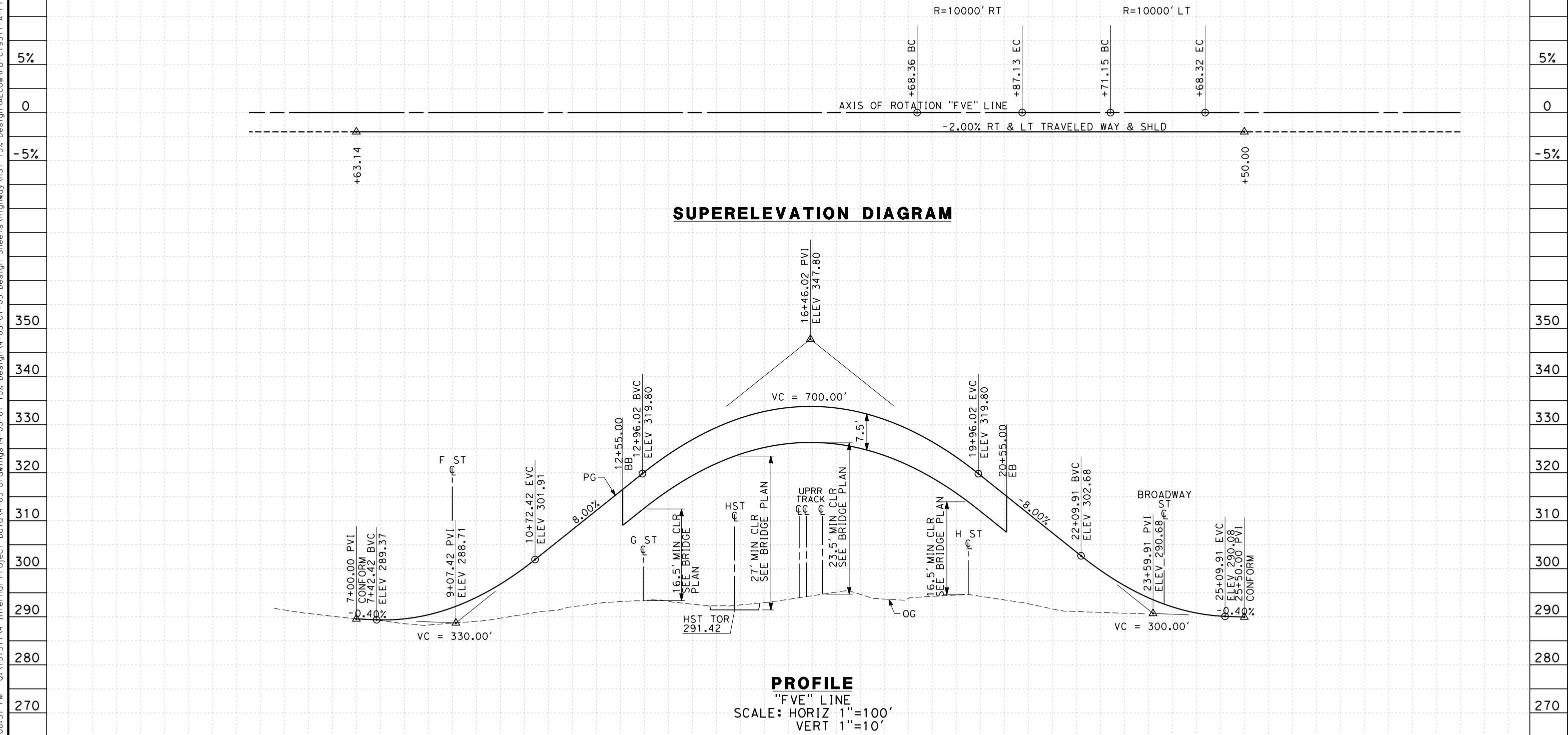
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 G ST (TULARE ST UNDERPASS)

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9576-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER UPRR IS 23.5' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE
4. VERTICAL DESIGN SPEED = 30 MPH
5. OG IS BASED UPON APPROXIMATED INTERMAP DTM

7/20/2011 6:08:37 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9577-A-F1.dgn



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 K. MING
 DRAWN BY
 E. SUDHAUSEN
 CHECKED BY
 J. MONG
 IN CHARGE
 A. LUFT
 DATE
 05/13/11

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 VENTURA ST

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9577-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

7/20/2011 6:08:44 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\Sheets\Highway\HST 15% Design\AECOM\FB-CR9578-A-F1.dgn

LINE DATA

NO.	BEARING	DISTANCE
3	N 00°00'00" E	207.32'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
DRAWN BY
E. SUDHAUSEN
CHECKED BY
J. MONG
IN CHARGE
A. LUFT
DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

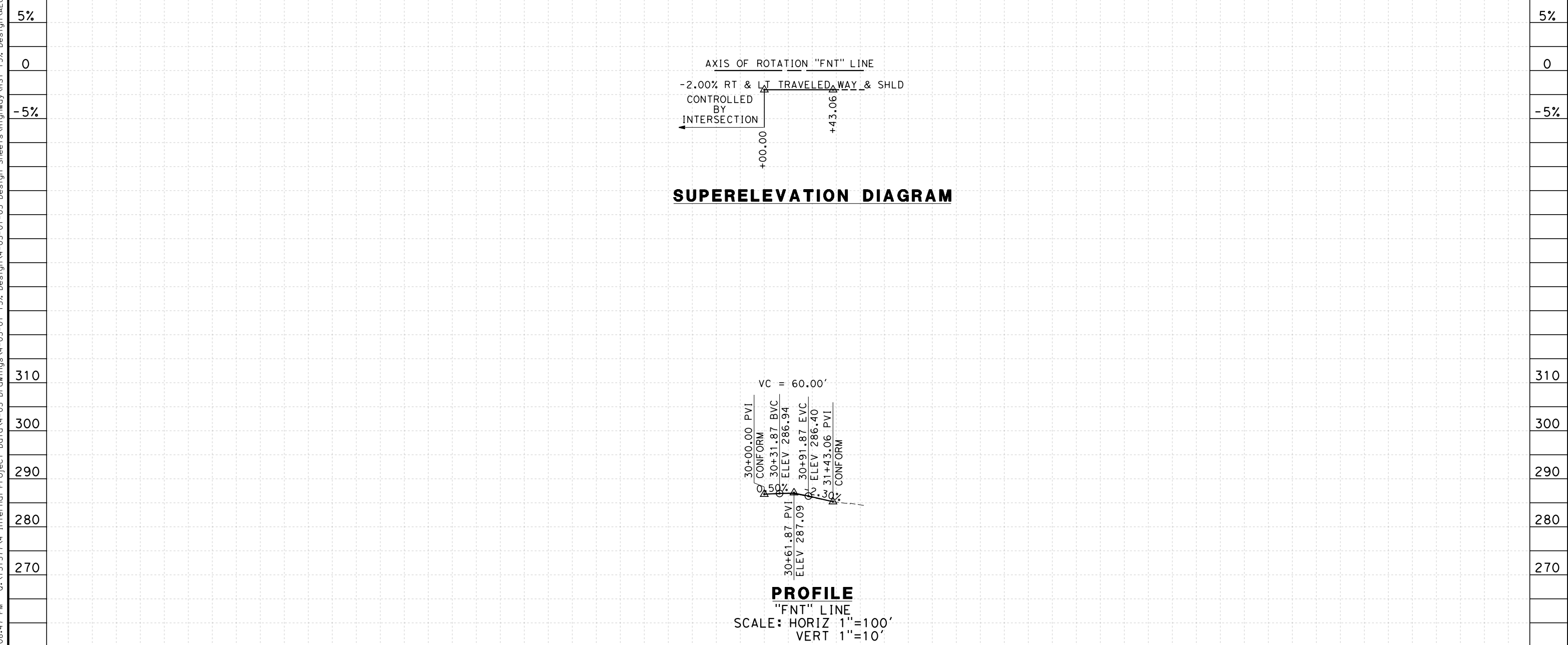


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
ROADWAY LAYOUT
N THORNE AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CR9578-A
SCALE
AS SHOWN
SHEET NO.
OF

NOTES:
 1. VERTICAL DESIGN SPEED = 15 MPH
 2. OG IS BASED UPON APPROXIMATED INTERMAP DTM

7/20/2011 6:08:47 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design Sheets\Highway\HST 15% Design\AECOM\FB-CR9579-A-F1.dgn



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 ROADWAY PROFILE & SUPERELEVATION DIAGRAM
 N THORNE AVE

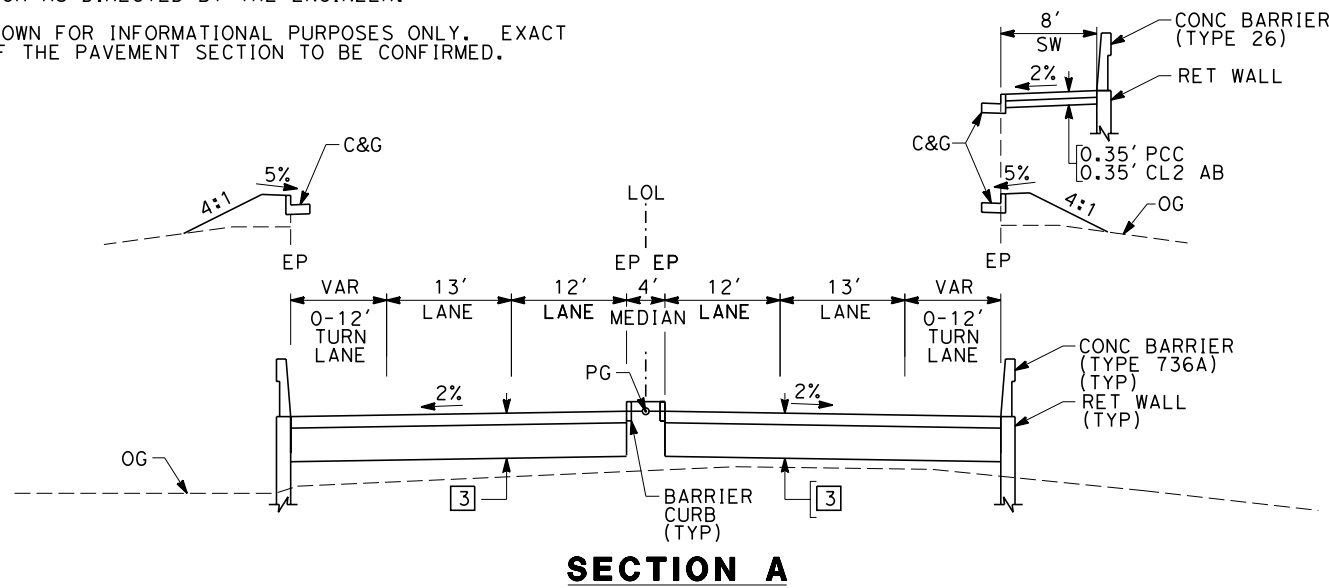
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CR9579-A
 SCALE
AS SHOWN
 SHEET NO.
OF

NOTES:

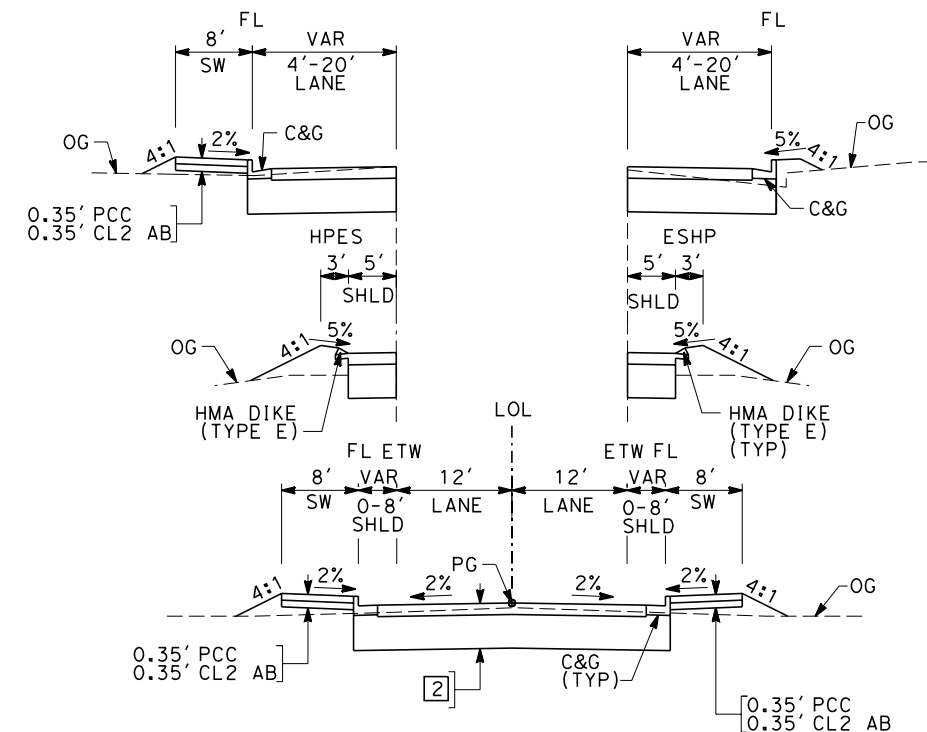
1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

**STRUCTURAL SECTIONS
TYPICAL ROADWAY**

- 1 [0.65' HMA (TYPE A)
1.75' CL2 AB
- 2 [0.35' HMA (TYPE A)
1.00' CL2 AB
- 3 [0.40' HMA (TYPE A)
1.50' CL2 AB
- 4 [0.55' HMA (TYPE A)
1.50' CL2 AB

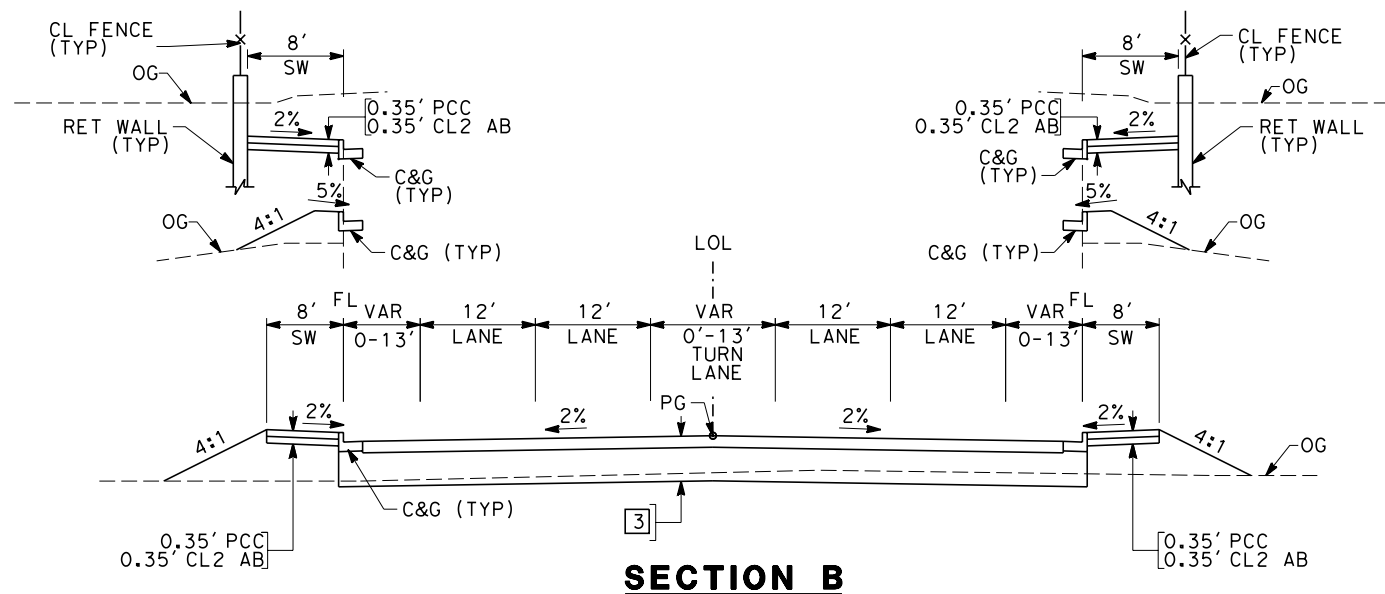


"FMC"	16+00.00 TO 22+60.00	"FBEL"	23+34.30 TO 29+55.58
"FMC"	26+50.00 TO 29+31.13	"FVE"	9+55.00 TO 12+55.00
"FOL"	13+05.96 TO 19+19.99	"FVE"	20+55.00 TO 22+71.15
"FOL"	24+82.94 TO 30+06.12	"FCH"	16+85.51 TO 21+20.00
"FBEL"	12+14.63 TO 17+09.30	"FCH"	29+45.00 TO 35+45.11



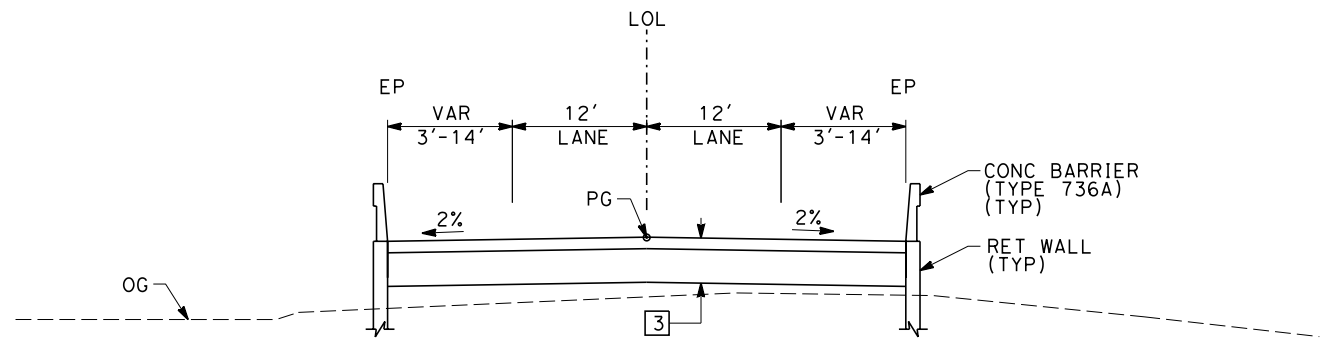
SECTION C

"FMCC"	10+00.00 TO 16+47.00	"FSL"	11+36.79 TO 17+27.26
"FNWE"	103+00.00 TO 107+00.00	"FSE"	1+00.00 TO 14+12.10
"FNWE"	112+00.00 TO 113+55.54	"FNT"	30+00.00 TO 31+46.01
"NGSB"	125+00.00 TO 167+12.45	"FGC"	0+50.00 TO 4+49.83
"FWES"	10+00.00 TO 14+69.32		



SECTION B

"FMC"	14+00.00 TO 16+00.00	"FTS"	13+00.00 TO 14+54.11
"FMC"	29+31.13 TO 32+08.89	"FTS"	28+43.67 TO 30+00.00
"FOL"	11+81.00 TO 13+05.96	"FVE"	7+00.00 TO 9+55.00
"FOL"	30+06.12 TO 33+00.00	"FVE"	22+71.15 TO 25+50.00
"FBEL"	8+00.00 TO 12+14.63	"FCH"	14+00.00 TO 16+85.51
"FBEL"	29+55.58 TO 32+00.00	"FCH"	35+45.11 TO 37+00.00
"FSS"	2+50.00 TO 4+38.84	"FGF"	30+38.00 TO 33+08.00
"FSS"	18+40.67 TO 20+00.00	"FGF"	33+92.00 TO 36+08.94
"FHF"	1+77.34 TO 10+00.00	"FGF"	41+50.00 TO 45+00.00



SECTION D

"FSS"	4+38.84 TO 6+45.00
"FSS"	16+75.00 TO 18+40.67
"FTS"	14+54.11 TO 16+75.00
"FTS"	26+75.00 TO 28+43.67

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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. LUF T
DATE 06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

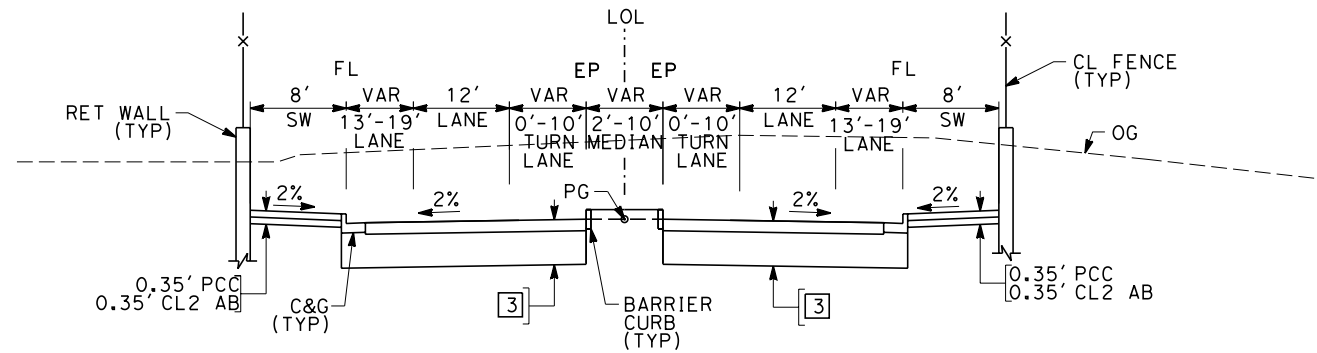
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 ROADWAY / GRADE SEPARATION
 TYPICAL CROSS SECTIONS

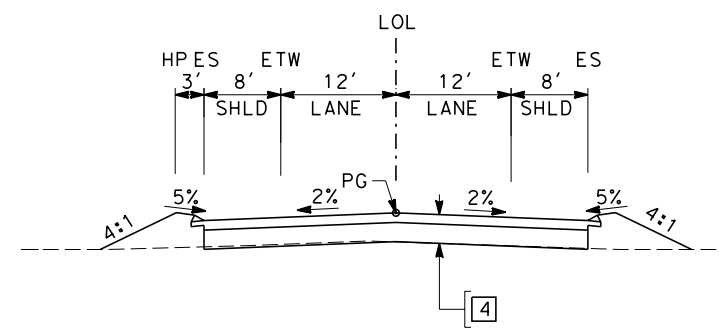
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DRAWING NO. CT9580-A
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SHEET NO. ### OF ###

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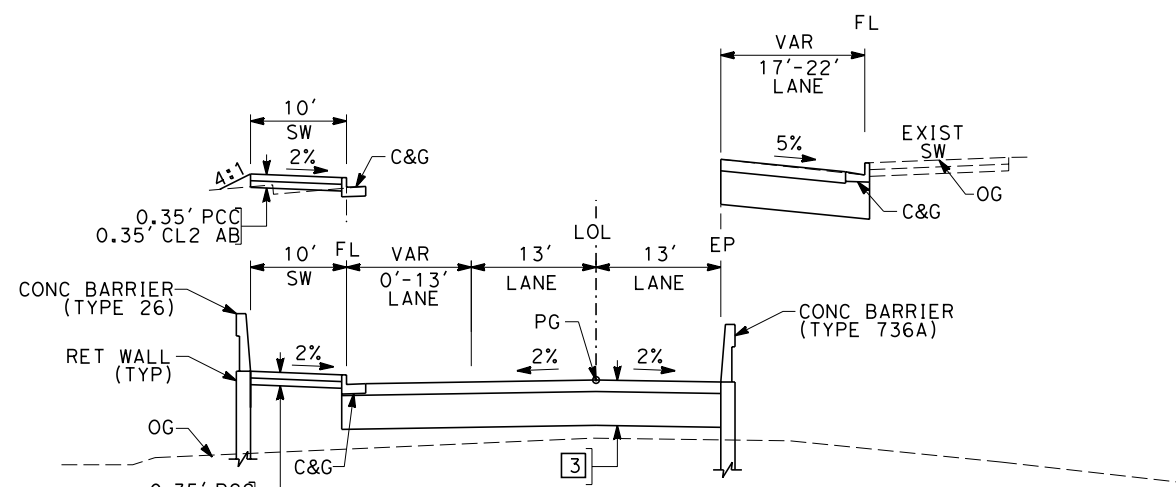
SECTION E

"FFS" 9+00.00 TO 23+48.61



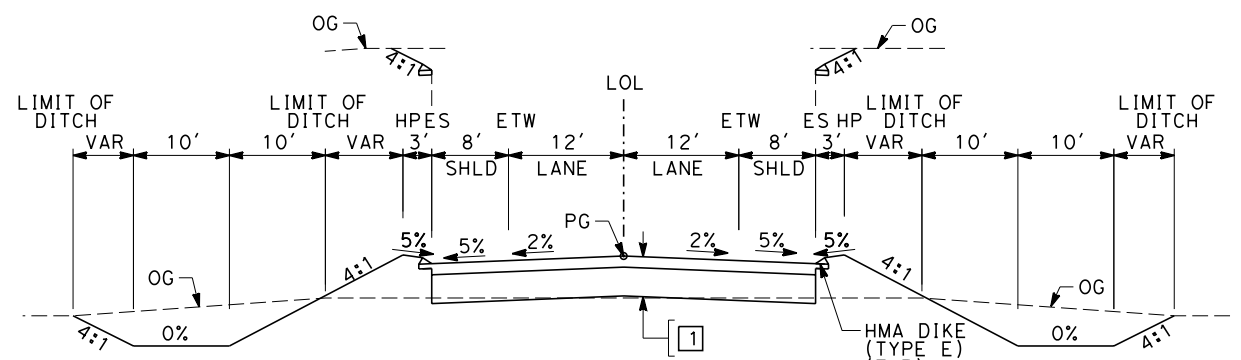
SECTION H

"FCE" 21+00.00 TO 24+00.00



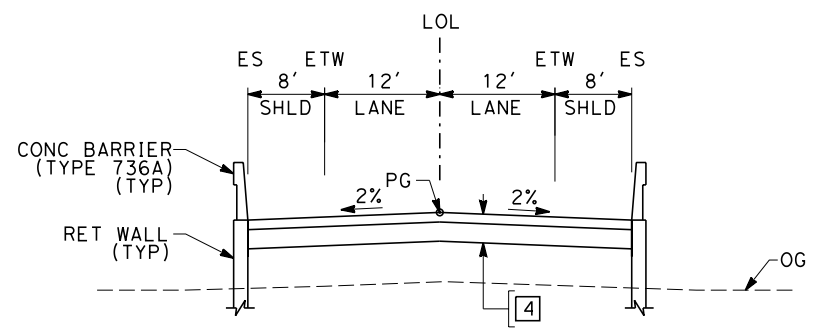
SECTION F

"FTU" 5+16.00 TO 12+55.43 (OVERHEAD OPTION)
 "FTU" 20+34.30 TO 27+00.00 (OVERHEAD OPTION)



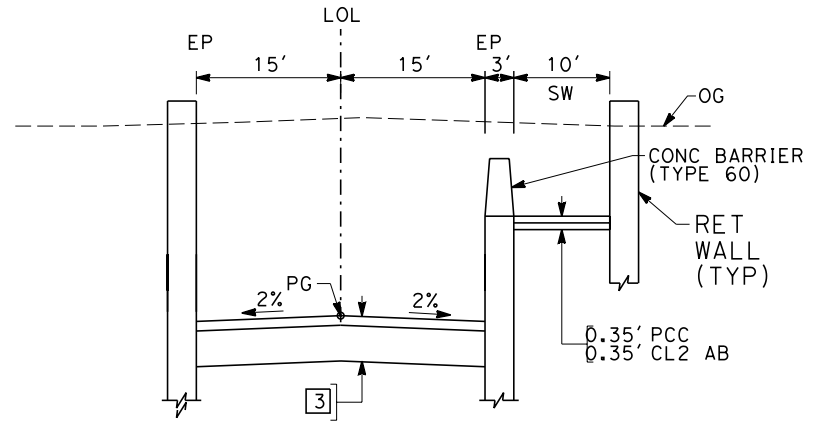
SECTION I

"FAM" 12+50.00 TO 24+63.00
 "FAM" 28+13.00 TO 39+91.28



SECTION G

"FCE" 24+00.00 TO 32+60.00
 "FCE" 37+80.00 TO 46+00.00



SECTION J

"FTU" 9+00.00 TO 20+00.00 (UNDERPASS OPTION)

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**

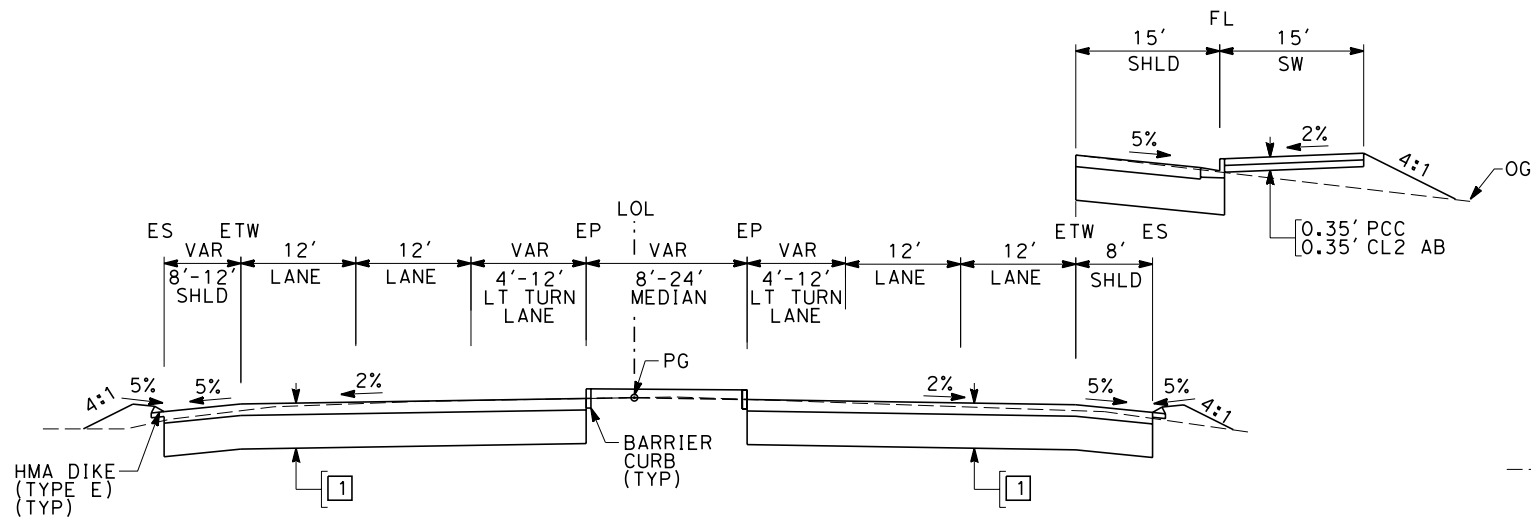
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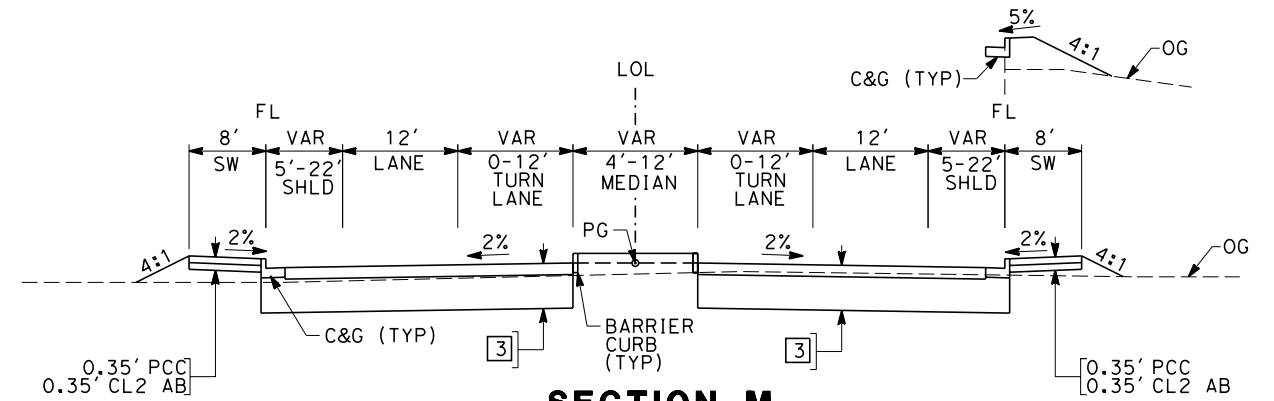
CALIFORNIA HIGH-SPEED TRAIN PROJECT
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 FRESNO SUBSECTION
 ALIGNMENT F1
 ROADWAY / GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9581-A
 SCALE
 NO SCALE
 SHEET NO.
 ### OF ###

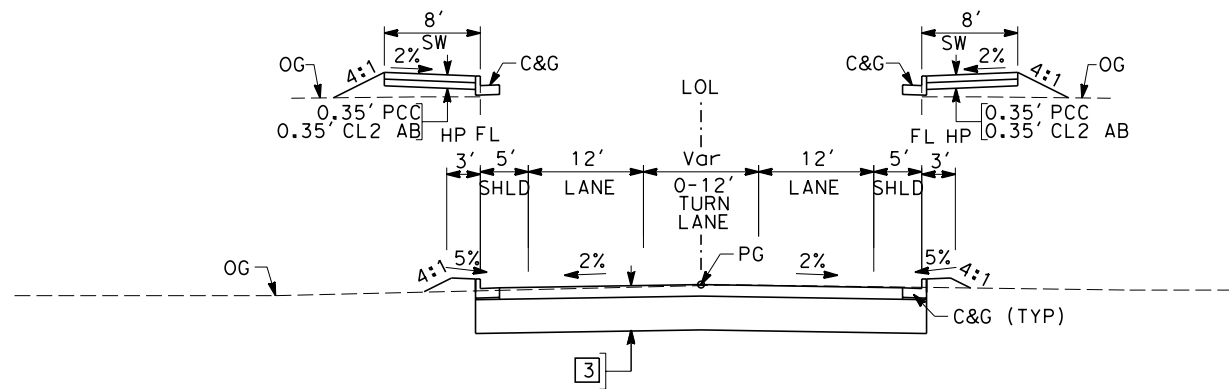
eron_sudhausen 7/20/2011 6:08:54 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9582-A-F1.dgn



SECTION K
"SGSB" 2+00.00 TO 6+00.00



SECTION M
"FNW" 13+00.00 TO 18+25.72



SECTION L
"FH" 21+19.44 TO 34+09.05
"FNW" 18+25.72 TO 20+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. MING
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

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

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9582-A
 SCALE
NO SCALE
 SHEET NO.
OF

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LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
GENERAL						
		B0110-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 2
		B0111-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 2 OF 2
		B0112-A	BNSF - AVE 24 WYE	GENERAL	ABBREVIATIONS, SYMBOLS & NOTES	SHEET 1 OF 1
		B0117-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 1 OF 4
		B0118-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 2 OF 4
		B0119-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 3 OF 4
		B0120-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 4 OF 4
		CT0121-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	GRADE HIGHWAY	SHEET 1 OF 2
		CT0122-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	GRADE HIGHWAY	SHEET 2 OF 2
		CT5000-A	BNSF - AVE 24 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH	SHEET 1 OF 2
		CT5000-B	BNSF - AVE 24 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH	SHEET 2 OF 2
A1 - AVE 24 WYE (LAYOUT)						
43		CT2000-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 1 OF 4
43		CT2001-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 2 OF 4
43		CT2002-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 3 OF 4
43		CT2003-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 4 OF 4
44		CT2004-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 1 OF 3
44		CT2005-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 2 OF 3
44		CT2006-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 3 OF 3
45		CR2010-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 1 OF 3
45		CR2011-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 2 OF 3
45		CR2012-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 3 OF 3
45		CR2010R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 1 OF 3
45		CR2011R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 2 OF 3
45		CR2012R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 3 OF 3
A1 - AVE 24 WYE (SUPERELEVATION TEMPLATES)						
		CT0996-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 1 OF 4
		CT0997-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 2 OF 4
		CT0998-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		CT0999-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
A1 - AVE 24 WYE (PROFILES)						
43		CT3000-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 1 OF 4
43		CT3001-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 2 OF 4
43		CT3002-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 3 OF 4
43		CT3003-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 4 OF 4
44		CT3004-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	PROFILE	SHEET 1 OF 3
44		CT3005-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	PROFILE	SHEET 2 OF 3
44		CT3006-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	PROFILE	SHEET 3 OF 3
45		CR3010-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 1 OF 3
45		CR3011-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 1 OF 3
45		CR3012-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 2 OF 3
45		CR3010R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 2 OF 3
45		CR3011R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 3 OF 3
45		CR3012R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 3 OF 3
A1 - AVE 24 WYE (LOCAL ROADS RELOCATION)						
51		CR4005-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - AVENUE 26	LAYOUT	SHEET 1 OF 1
61		CR4100-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - AVENUE 23 1/2	LAYOUT	SHEET 1 OF 2
61		CR4101-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - AVENUE 23 1/2	LAYOUT	SHEET 2 OF 2
CH2 (LAYOUTS AND PROFILES)						
		T-1		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-1		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-2		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-3		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-4		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-5		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-6		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-7		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-8		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-9		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-10		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-11		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-12		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-13		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-14		ROUTE 99 RE-ALIGNMENT	TYPICAL CROSS SECTIONS	
		X-15		ROUTE 99 RE-ALIGNMENT	KEY MAP	
		K-1		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-1		ROUTE 99 RE-ALIGNMENT	LAYOUT	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
07/20/2011

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

BNSF - AVE 24
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO.
HSR06-007
DRAWING NO.
B0110
SCALE
NONE
SHEET NO.
OF

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LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
		L-2		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-3		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-4		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-5		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-6		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-7		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-8		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-9		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-10		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-11		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-12		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-13		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-14		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-15		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-16		ROUTE 99 RE-ALIGNMENT	LAYOUT	
		L-17		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-1		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-2		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-3		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-4		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-5		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-6		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-7		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-8		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-9		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-10		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-11		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-12		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-13		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-14		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-15		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-16		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-17		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-18		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-19		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-20		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-21		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-22		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-23		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-24		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-25		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-26		ROUTE 99 RE-ALIGNMENT	PROFILE AND SUPERELEVATION	
		P-27		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-1		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-2		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-3		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-4		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-5		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-6		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-7		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-8		ROUTE 99 RE-ALIGNMENT	STAGE 1 CONSTRUCTION	
		SC-9		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-10		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-11		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-12		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-13		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-14		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-15		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-16		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-17		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		SC-18		ROUTE 99 RE-ALIGNMENT	STAGE 2 CONSTRUCTION	
		BR-1		ROUTE 99 RE-ALIGNMENT	ADVANCED PLANNING STUDY	
		BR-2		ROUTE 99 RE-ALIGNMENT	ADVANCED PLANNING STUDY	
		BR-3		ROUTE 99 RE-ALIGNMENT	ADVANCED PLANNING STUDY	
		BR-4		ROUTE 99 RE-ALIGNMENT	ADVANCED PLANNING STUDY	
		BR-5		ROUTE 99 RE-ALIGNMENT	ADVANCED PLANNING STUDY	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
07/20/2011

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

BNSF - AVE 24
GENERAL
INDEX OF DRAWINGS
SHEET 2 OF 2

CONTRACT NO.
HSR06-007

DRAWING NO.
B0111

SCALE
NONE

SHEET NO.
OF

ABBREVIATIONS

ALIGNMENT

HORIZONTAL

BC BEGINNING OF CURVE
 EC END OF CURVE
 PC POINT OF CURVE
 PI POINT OF INTERSECTION OF TWO TANGENTS
 POC POINT ON CURVE
 POT POINT ON TANGENT
 PRC POINT OF REVERSE CURVES
 PT POINT OF TANGENCY
 R RADIUS OF CURVATURE IN FEET
 V, DS DESIGN VELOCITY IN MILES PER HOUR

VERTICAL

PVC POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
 PVI POINT OF VERTICAL INTERSECTION (OF TANGENTS)
 PVT POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
 VC VERTICAL CURVE

MISCELLANEOUS

BEG BEGIN
 BLVD BOULEVARD
 CL CENTER LINE
 CLR CENTERLINE, CLASS
 CLR CLEAR
 COL COLUMN
 DWG DRAWING
 EQ EQUATION
 EXIST(E) EXISTING
 IN INCH
 LT LEFT
 MAX MAXIMUM
 MIN MINIMUM
 N NORTH
 NB NORTH BOUND
 NTS NOT TO SCALE
 OG ORIGINAL GROUND
 O/H OH OVERHEAD
 PG&E PACIFIC GAS & ELECTRIC
 PGL, FG PROFILE GRADE LINE
 RR RAILROAD
 RD ROAD
 R/W RIGHT OF WAY
 RT RIGHT
 SS SANITARY SEWER
 SHT SHEET
 ST STREET
 STD STANDARD
 SD STORM DRAIN
 STRUCT, STR STRUCTURE
 T TELEPHONE
 (OH) OVERHEAD LINE
 (UG) UNDERGROUND LINE
 TOR TOP OF RAIL
 TK TRACK
 TYP TYPICAL
 TBD TO BE DETERMINED
 TF TELECOMMUNICATIONS FIBER
 OPTIC
 V VERT VERTICAL
 W WATER, WEST

SYMBOLS

————— MATCH LINE
 ————— HST TRACK
 - - - - - PROPOSED HST RIGHT-OF-WAY
 ———+——— FREIGHT/PASSENGER TRACK - EXISTING
 ———-——— OR ———-——— EXISTING BRIDGE FEATURES
 ———▲——— RETAINING WALLS
 - - - - - ORIGINAL GROUND
 ——— G16 ——— GAS LINE (16")
 - - - TC ——— COMMUNICATION LINE
 - - - W ——— WATER LINE
 ——— F0 ——— FIBER OPTIC LINE
 ——— -E ——— ELECTRICAL LINE
 × ELECTRICAL TOWER
 - - - S ——— SEWER LINE
 - - - SD ——— STORM DRAIN LINE
 - - - O ——— FUEL LINE
 - - - TC ——— TELEPHONE LINE
 ——— P12 ——— PETROLEUM LINE (12")
 ——— (OH) ——— OVERHEAD
 ——— NORTH ARROW
 ▲ PVI

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. LI
 DRAWN BY
A. TRINH
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
07/20/2011

**RECORD SET
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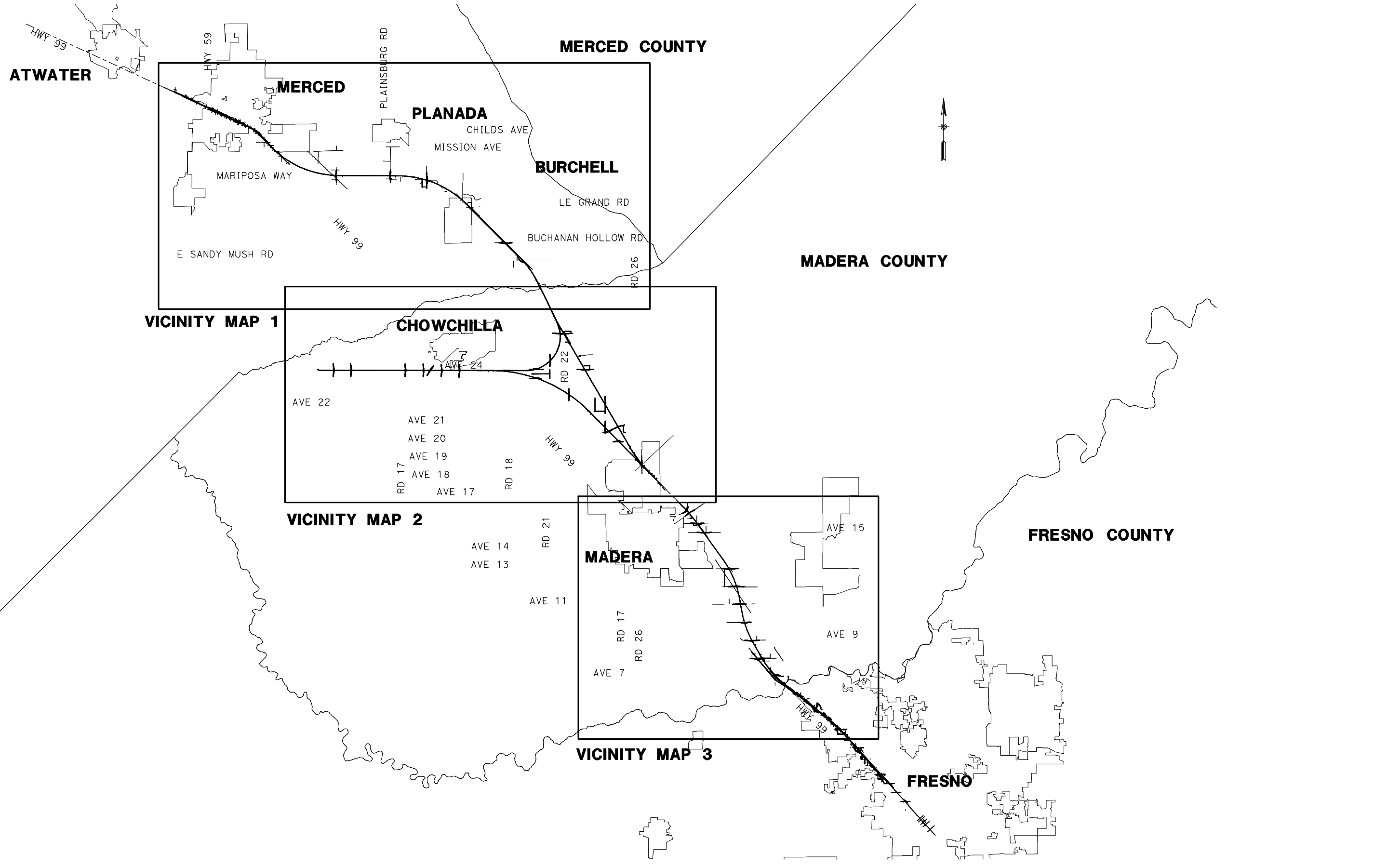


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

BNSF - AVE 24 WYE
 GENERAL
 ABBREVIATIONS, SYMBOLS & NOTES
 SHEET 1 OF 1

CONTRACT NO.
HSR06-007
 DRAWING NO.
B0112-A
 SCALE
NO SCALE
 SHEET NO.
OF

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
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SUBMITTAL**

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CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



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

BNSF - AVE 24 WYE

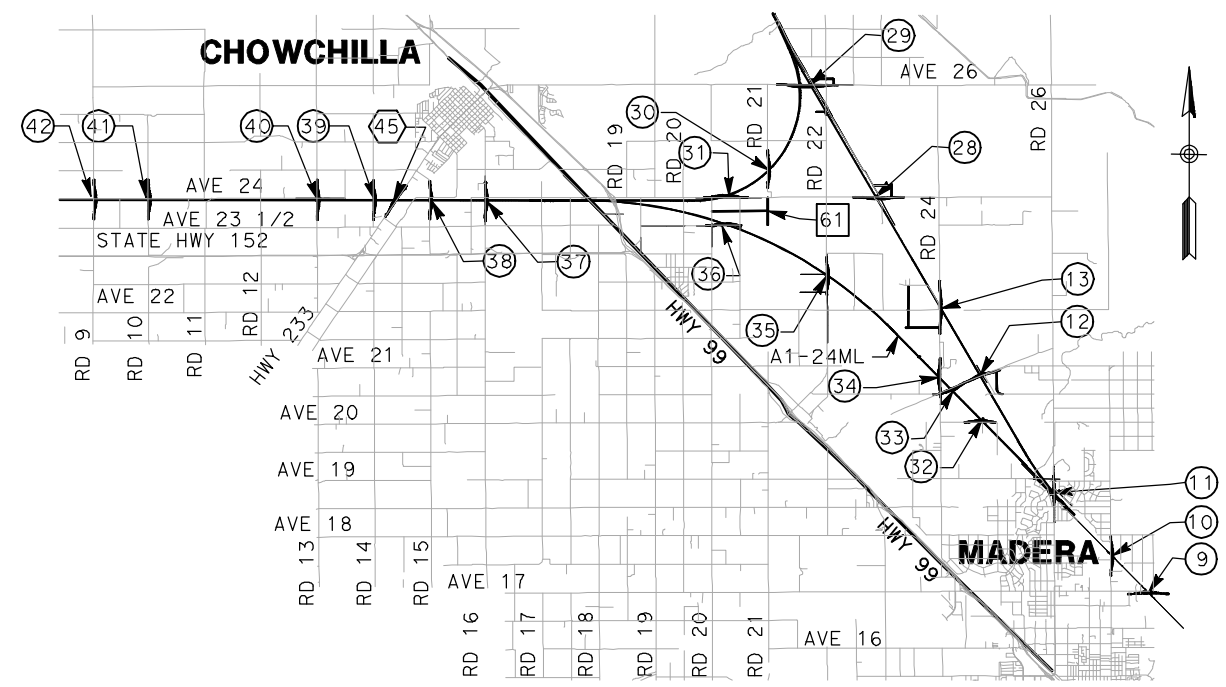
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SHEET 1 OF 4

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DRAWING NO.	B0117-A
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SHEET NO.	OF ###

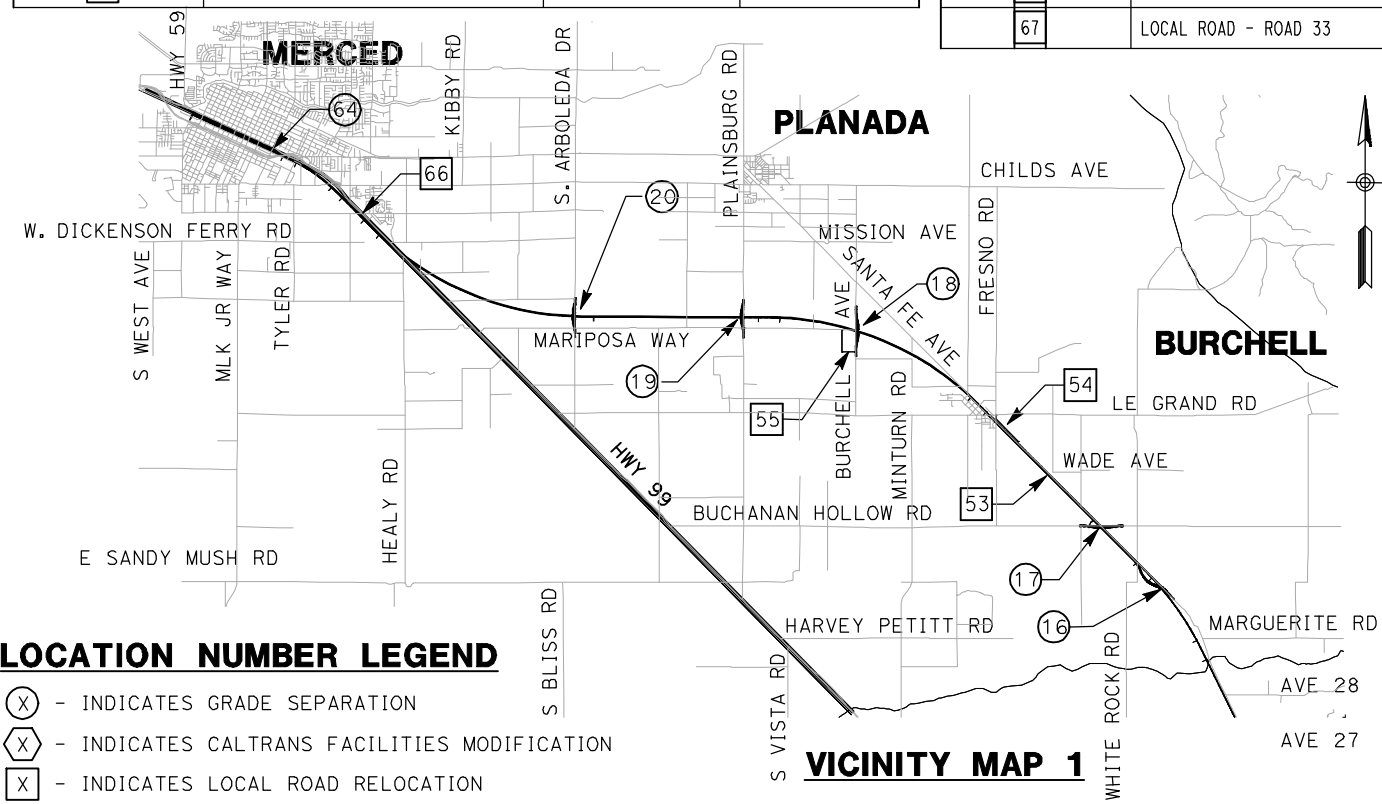
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LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
1	GRADE SEPARATION - AVENUE 9	CT0001-A - CT0003-A	ST1001
2	GRADE SEPARATION - AVENUE 10	CT0004-A - CT0006-A	ST1002
3	GRADE SEPARATION - AVENUE 11	CT0007-A - CT0009-A	ST1003
4	GRADE SEPARATION - AVENUE 12	CT0010-A - CT0012-A	ST1004
5	GRADE SEPARATION - AVENUE 13	CT0013-A - CT0016-A	ST1005
6	GRADE SEPARATION - AVENUE 15	CT0017-A - CT0019-A	ST1006
7	GRADE SEPARATION - AVENUE 15 1/2	CT0020-A - CT0022-A	ST1007
8	GRADE SEPARATION - RAYMOND RD	CT0023-A - CT0025-A	ST1008
9	GRADE SEPARATION - AVENUE 17	CT0026-A - CT0028-A	ST1009
11	UNDERPASS - ROAD 26	CT0032-A - CT0034-A	ST1011
12	GRADE SEPARATION - AVENUE 21	CT0035-A - CT0037-A	ST1012
13	GRADE SEPARATION - ROAD 24	CT0038-A - CT0040-A	ST1013
16	GRADE SEPARATION - SANTA FE AVE	CT0048-A - CT0050-A	ST1016
17	GRADE SEPARATION - BUCHANAN HOLLOW	CT0051-A - CT0053-A	ST1017
18	GRADE SEPARATION - BURCHELL AVE	CT0054-A - CT0056-A	ST1018
19	GRADE SEPARATION - PLAINSBURG RD	CT0057-A - CT0059-A	ST1019
20	GRADE SEPARATION - ARBOLEDA DR	CT0060-A - CT0062-A	ST1020
64	GRADE SEPARATION - G STREET	CT0149-A	ST1180
65	GRADE SEPARATION - AVENUE 7	CT0146-A - CT0148-A	ST1070
43	CALTRANS - AVENUE 8	CT2000-A - CT2003-A	ST1000
44	CALTRANS - SR 145	CT2004-A - CT2006-A	
46	LOCAL ROAD - ROAD 30 1/2	CR4000-A	

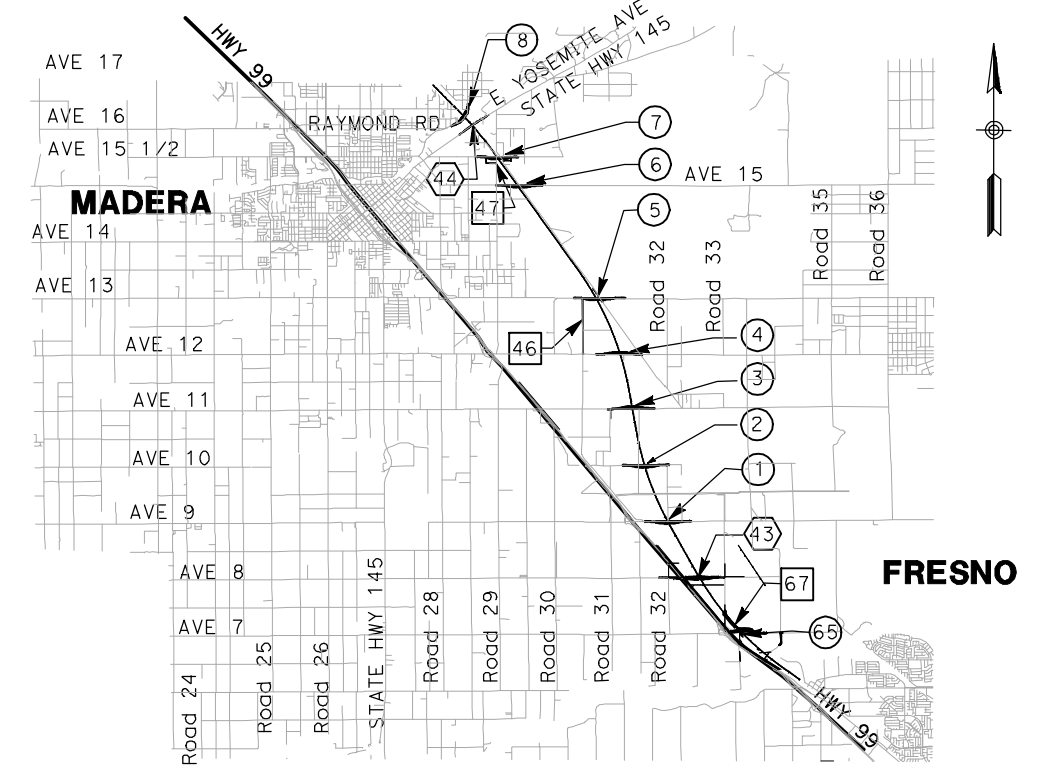
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
47	LOCAL ROAD - ROAD 29	CR4001-A	
53	LOCAL ROAD - SANTA FE AVE	CR4007-A - CR4009-A	
54	LOCAL ROAD - SANTA FE AVE (SOUTH)	CR4009-A	
55	LOCAL ROAD - BURCHELL RD	CR4010-A	
28	GRADE SEPARATION - AVENUE 24	CT0100-A - CT0102-A	ST1030
29	GRADE SEPARATION - AVENUE 26	CT0103-A - CT0106-A	ST1031 - ST1032
30	GRADE SEPARATION - ROAD 21	CT0107-A - CT0109-A	ST1033
31	GRADE SEPARATION - AVENUE 24	CT0110-A - CT0112-A	ST1034
32	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
33	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
34	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
35	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
36	GRADE SEPARATION - AVENUE 23 1/2	CT0125-A - CT0127-A	ST1041
37	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
38	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
39	GRADE SEPARATION - ROAD 14	CT0134-A - CT0136-A	ST1044
40	GRADE SEPARATION - ROAD 13	CT0137-A - CT0139-A	ST1045
41	GRADE SEPARATION - ROAD 10	CT0140-A - CT0142-A	ST1046
42	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1047
45	CALTRANS - SR 233	CT0210-A - CT0212-A	ST1150
61	LOCAL ROAD - AVENUE 23 1/2	CR4100-A - CR4101-A	
66	LOCAL ROAD - PROP W. FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-A	



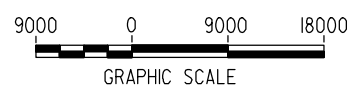
VICINITY MAP 4



VICINITY MAP 1



VICINITY MAP 3



FOR ROADWAY STRUCTURES
SEE STRUCTURAL
INDEX MAPS

- LOCATION NUMBER LEGEND**
- (X) - INDICATES GRADE SEPARATION
 - (X) - INDICATES CALTRANS FACILITIES MODIFICATION
 - (X) - INDICATES LOCAL ROAD RELOCATION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
07/20/2011

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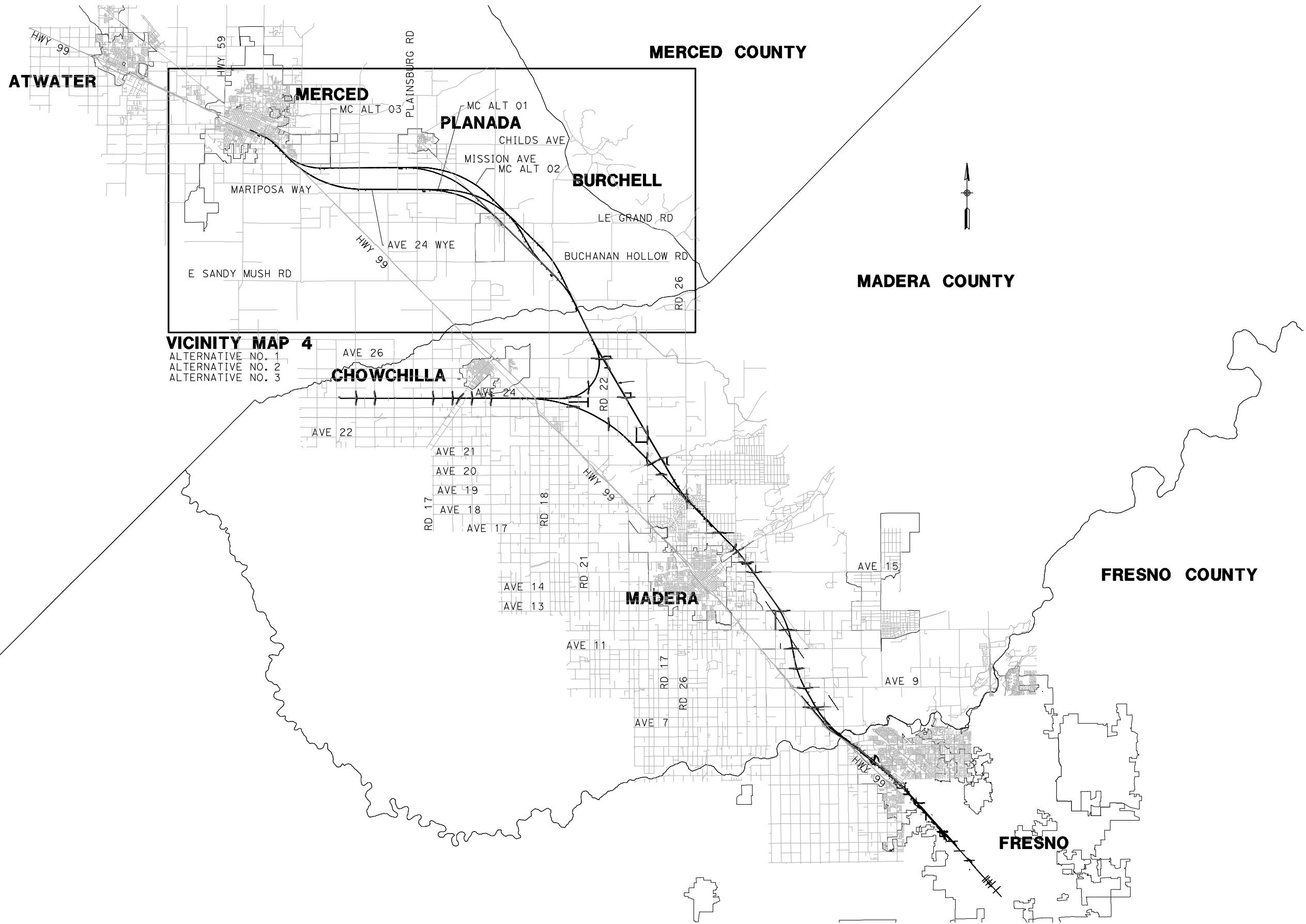


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 24 WYE

INDEX MAP
SHEET 2 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
B0118-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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VICINITY MAP 4
 ALTERNATIVE NO. 1
 ALTERNATIVE NO. 2
 ALTERNATIVE NO. 3

REV	DATE	BY	CHK	APP	DESCRIPTION

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T. WALTZ
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
07/20/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 24 WYE
 MC-ALTERNATIVES NO. 1, NO. 2, & NO. 3

INDEX MAP
 SHEET 3 OF 4

CONTRACT NO.
HSR06-007

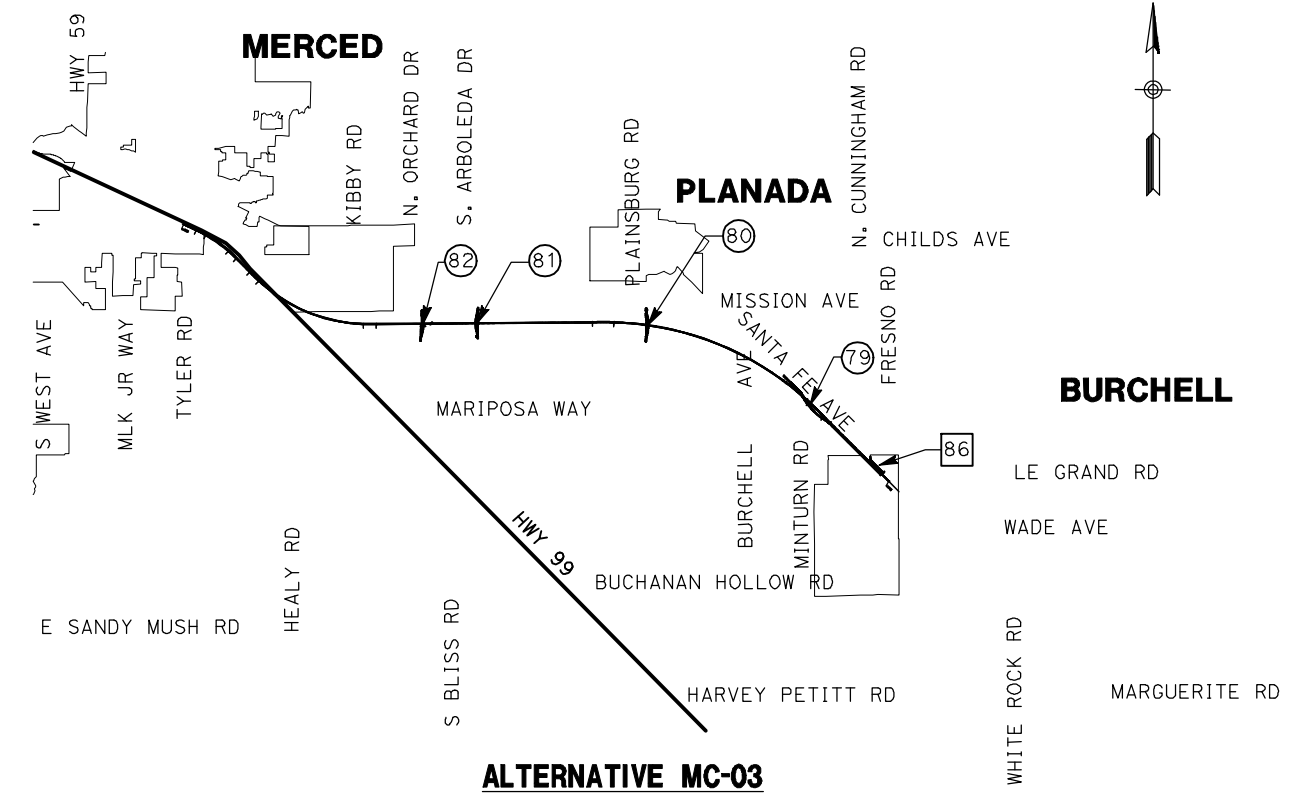
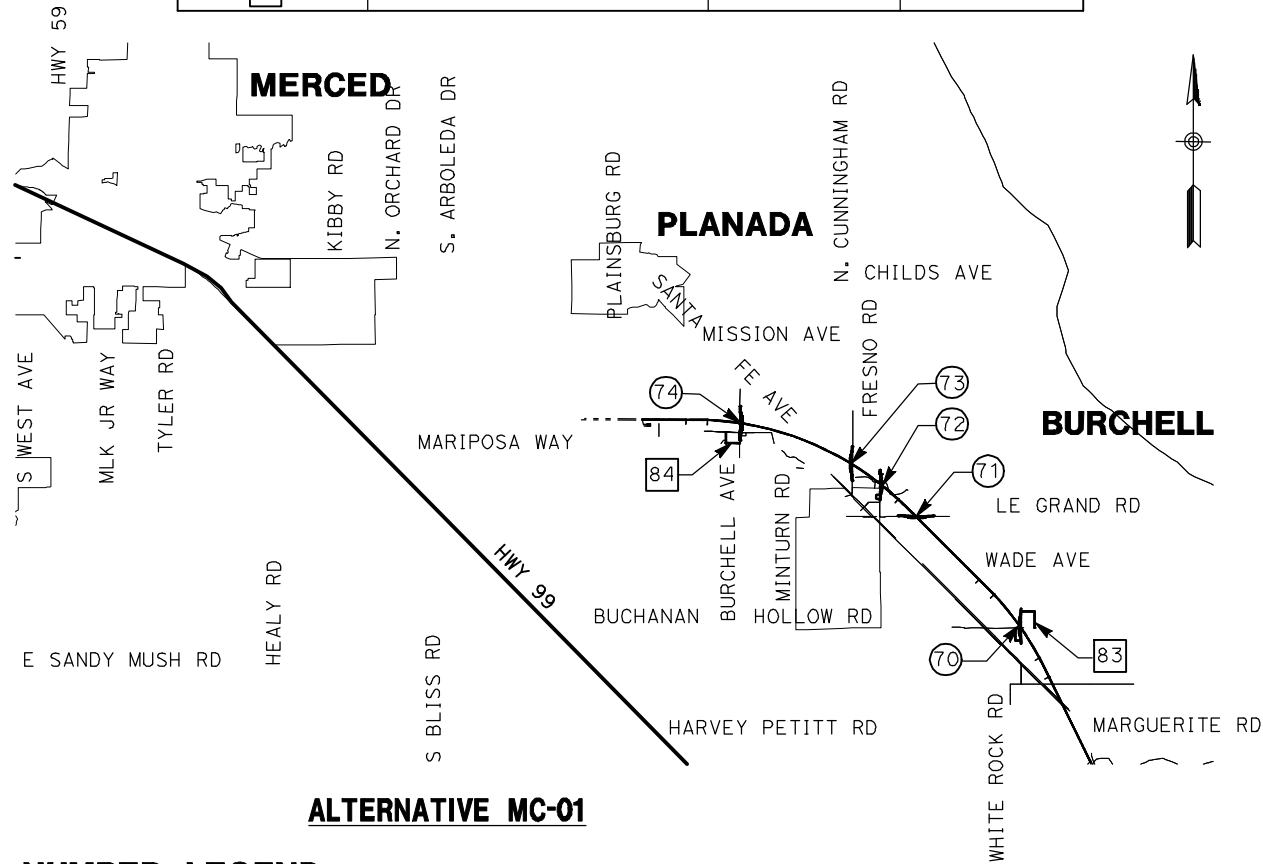
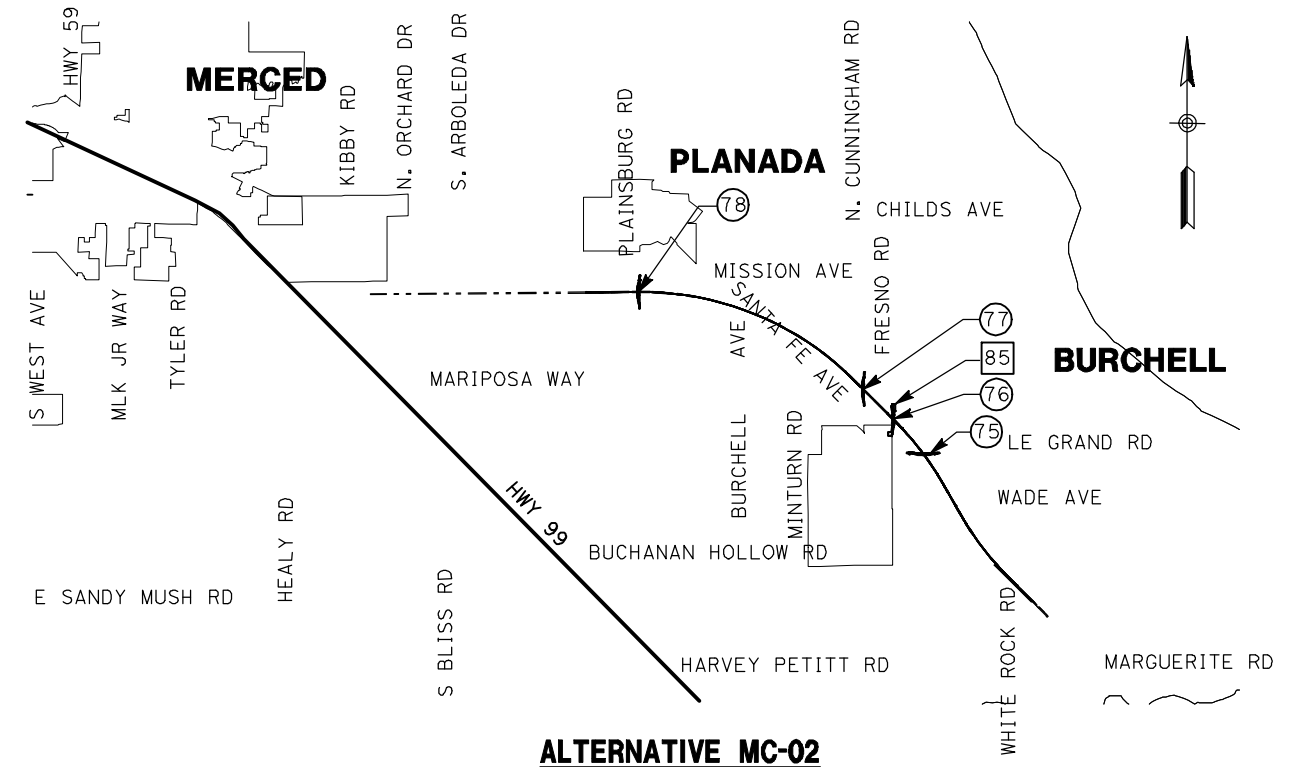
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B0119-A

SCALE
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SHEET NO.
OF

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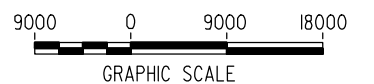
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70	GRADE SEPARATION - WHITE ROCK RD	CT0200-A - CT0202-A	ST1050
71	GRADE SEPARATION - LE GRAND RD	CT0203-A - CT0205-A	ST1051
72	GRADE SEPARATION - S. FRESNO RD	CT0206-A - CT0208-A	ST1052
73	GRADE SEPARATION - S. CUNNINGHAM RD	CT0209-A - CT0211-A	ST1053
74	GRADE SEPARATION - S. BURCHELL AVE	CT0212-A - CT0214-A	ST1054
75	GRADE SEPARATION - LE GRAND RD	CT0250-A - CT0252-A	ST1055
76	GRADE SEPARATION - S. FRESNO RD	CT0253-A - CT0255-A	ST1056
77	GRADE SEPARATION - S. CUNNINGHAM RD	CT0256-A - CT0258-A	ST1057
78	GRADE SEPARATION - PLAINSBURG RD	CT0259-A - CT0261-A	ST1058
79	GRADE SEPARATION - S. SANTA FE AVE	CT0300-A - CT0302-A	ST1059
80	GRADE SEPARATION - PLAINSBURG RD	CT0303-A - CT0305-A	ST1060
81	GRADE SEPARATION - S. ARBOLEDA RD	CT0306-A - CT0308-A	ST1061
82	GRADE SEPARATION - S. ORCHARD DR	CT0309-A - CT0311-A	ST1062
83	LOCAL ROAD - WHITE ROCK	CR4200-A - CR4201-A	
84	LOCAL ROAD - BURCHELL	CR4202-A	
85	LOCAL ROAD - FRESNO	CR4250-A	
86	LOCAL ROAD - SANTA FE	CR4300-A - CR4301-A	



LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- (X) - INDICATES CALTRANS FACILITIES MODIFICATION
- (X) - INDICATES LOCAL ROAD RELOCATION

FOR ROADWAY STRUCTURES
SEE STRUCTURAL
INDEX MAPS



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
07/20/2011

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15% DESIGN
SUBMITTAL**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 24 WYE
ALTERNATIVES NO. 1, NO. 2, & NO. 3

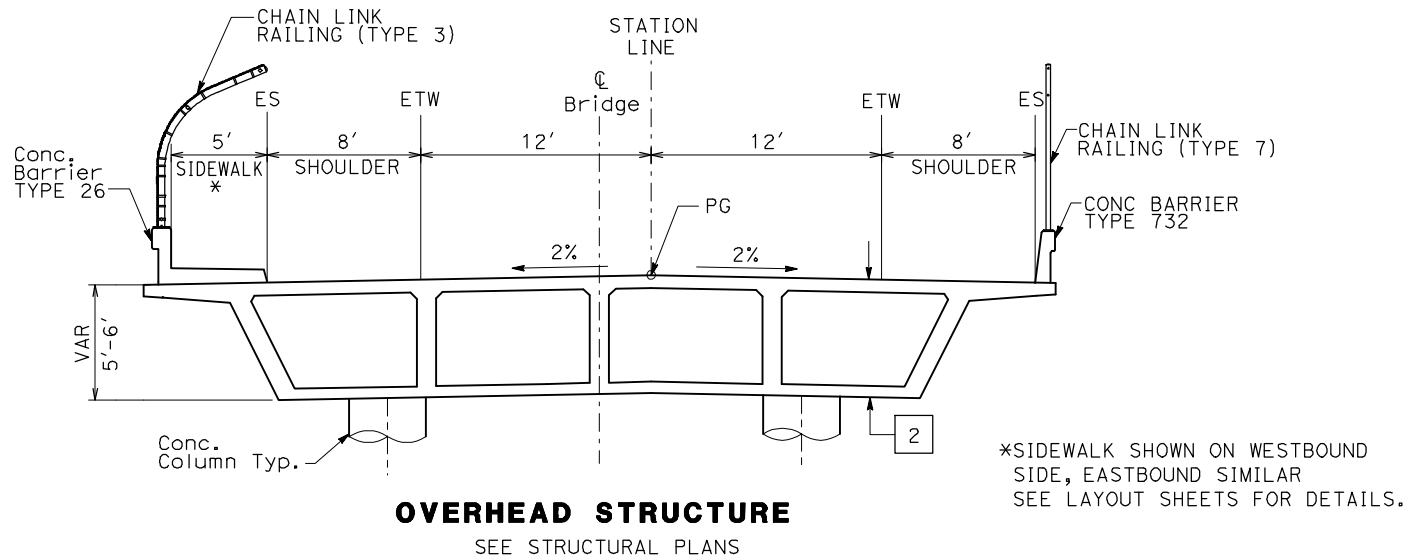
INDEX MAP
SHEET 4 OF 4

CONTRACT NO.	HSR06-007
DRAWING NO.	B0120-A
SCALE	NO SCALE
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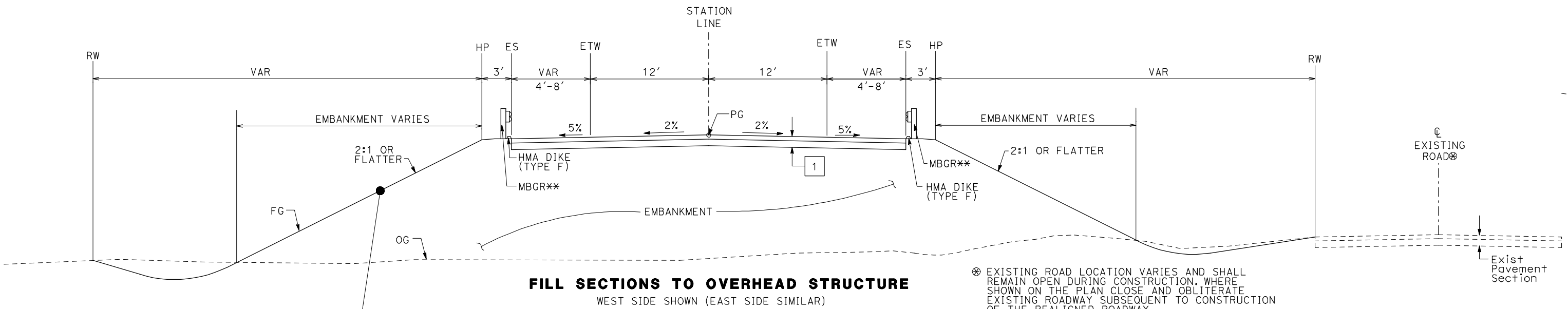
NOTES:

1. DIMENSIONS OF EXISTING PAVEMENT WIDTHS ARE BASED ON MEASUREMENTS MADE IN THE FIELD AND ARE APPROXIMATE.
2. PAVEMENT SECTIONS ARE TO BE DETERMINED. GEOTECHNICAL INVESTIGATIONS WILL BE CONDUCTED IN A SUBSEQUENT PHASE TO DETERMINE STRUCTURAL SECTIONS FOR EACH CROSSING.
3. SPACING OF BENCHES ON PROPOSED FILL SECTIONS ARE TO BE DETERMINED.
4. RIGHT-OF-WAY (R/W) WIDTH IS FOR INFORMATION ONLY. EXACT WIDTH TO BE DETERMINED IN COORDINATION WITH AFFECTED AGENCY.



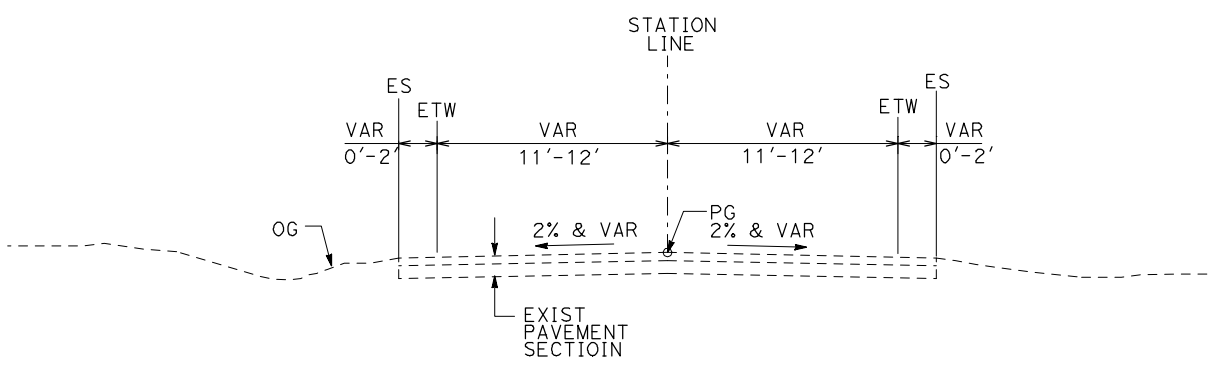
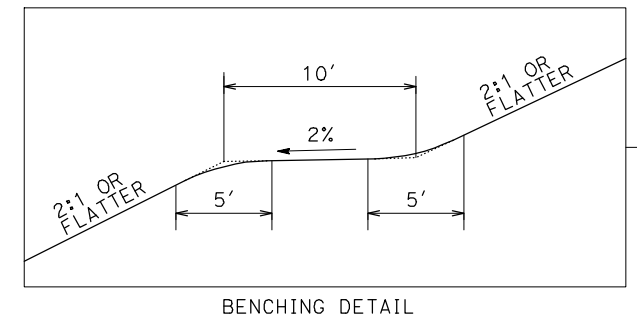
- STRUCTURAL SECTIONS:**
- 1 [HMA TYPE A
AB CLASS 2
 - 2 [CAST IN PLACE / PRESTRESSED
BOX GIRDER (6' STRUCTURE DEPTH)
 - 3 [AB CLASS 2

*SIDEWALK SHOWN ON WESTBOUND SIDE, EASTBOUND SIMILAR
SEE LAYOUT SHEETS FOR DETAILS.



⊗ EXISTING ROAD LOCATION VARIES AND SHALL REMAIN OPEN DURING CONSTRUCTION. WHERE SHOWN ON THE PLAN CLOSE AND OBLITERATE EXISTING ROADWAY SUBSEQUENT TO CONSTRUCTION OF THE REALIGNED ROADWAY.

** EXACT LIMITS OF MBGR PER AGENCY REQUIREMENTS.



TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A1, AVE 24 WYE :

NO.	STREET NAME
1	SR233 (ROBERTSON BLVD)
2	AVENUE 8

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. OAKS

DRAWN BY
K. OAKS

CHECKED BY
J. ZANDIAN

IN CHARGE
A. BOONE

DATE
04/29/2011

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

BNSF - AVE 24 WYE
TYPICAL CROSS SECTIONS
HIGHWAY
SHEET 1 OF 1

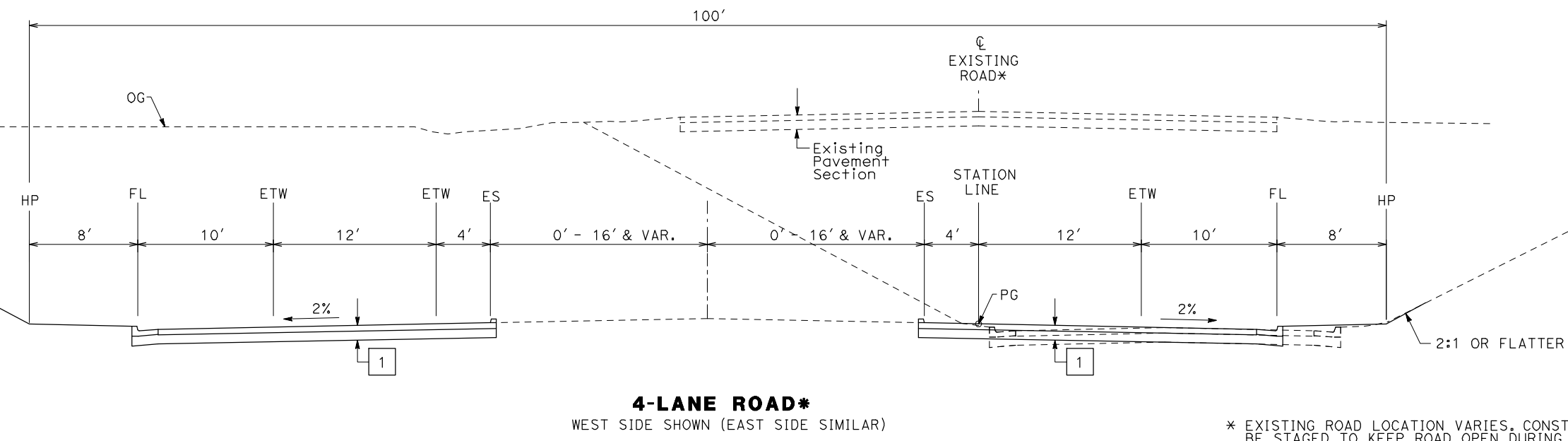
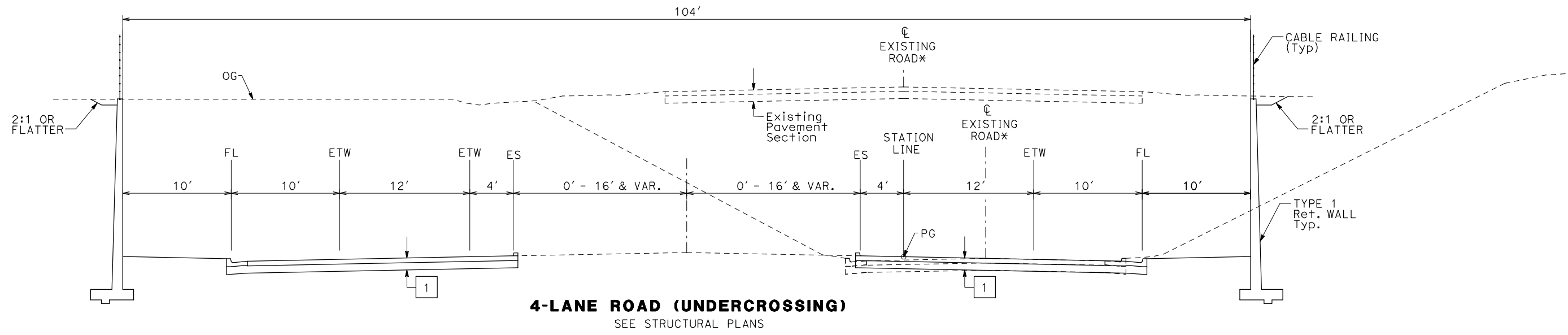
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HSR06-007

DRAWING NO.
CT0121-A

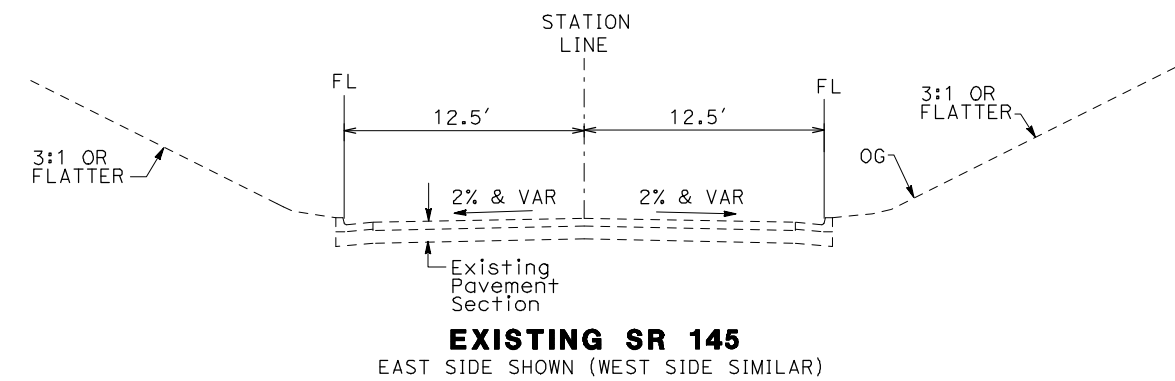
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* EXISTING ROAD LOCATION VARIES. CONSTRUCTION SHALL BE STAGED TO KEEP ROAD OPEN DURING CONSTRUCTION.



TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A1:

NO.	STREET NAME
1	W. Yosemite Ave. (SR 145)
2	Robertson Blvd (SR 233)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. OAKS

DRAWN BY
K. OAKS

CHECKED BY
A. SILVER

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF - AVE 24 WYE
TYPICAL CROSS SECTIONS
HIGHWAY
SHEET 2 OF 2

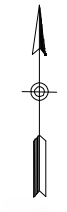
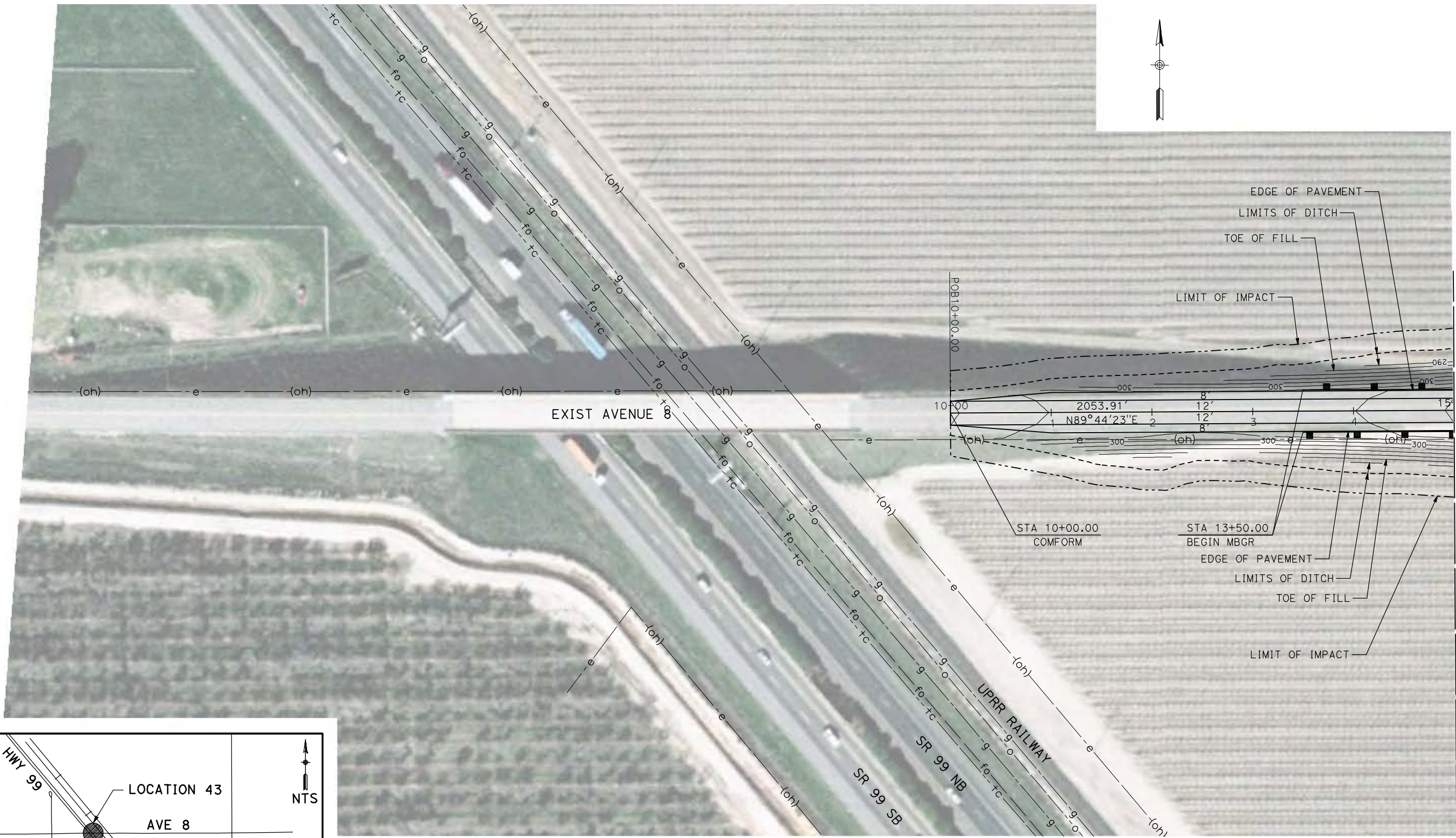
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DRAWING NO.
CT0122-A

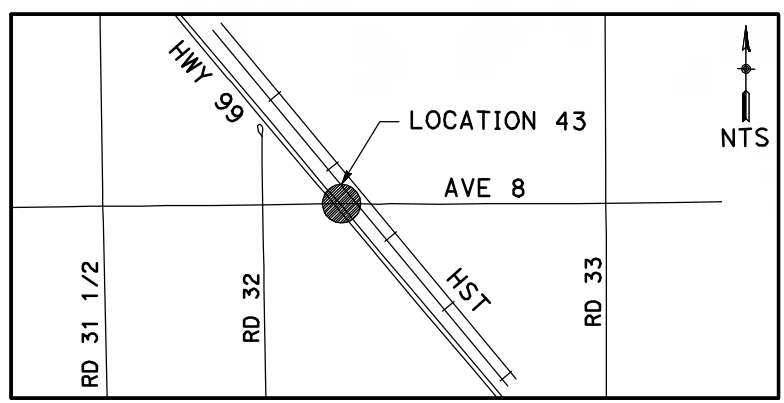
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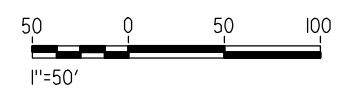
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MATCH LINE STA 15+00
SEE DRAWING CT2002-A



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3001-A THROUGH CT3003-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

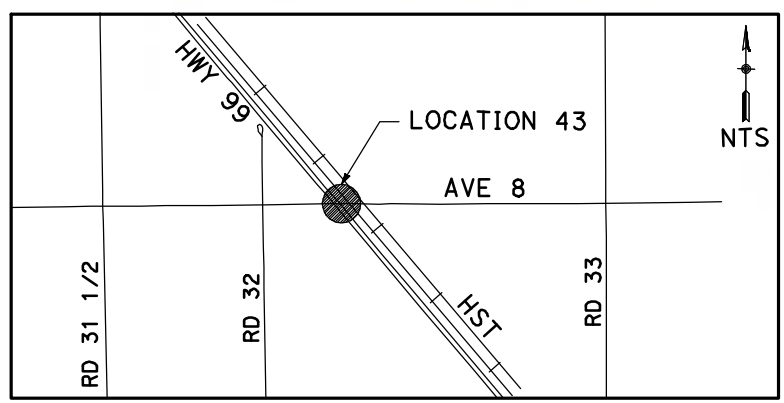
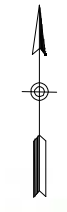
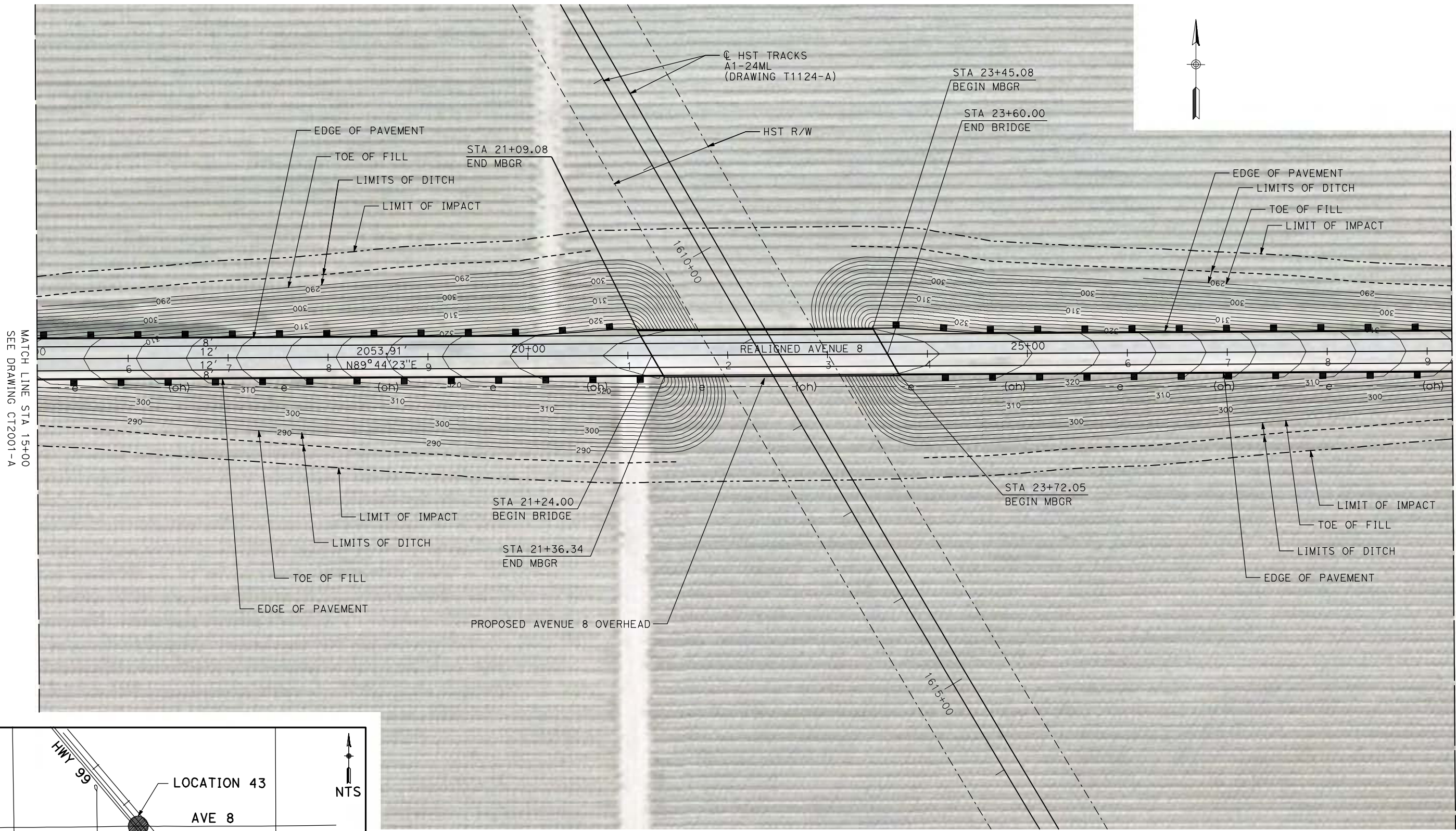
DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011



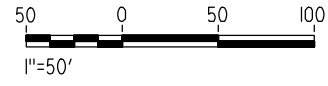
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 8
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2001-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3001-A THROUGH CT3003-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
 CHECKED BY
A. SILVER
 IN CHARGE
A. BOONE
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04/29/2011

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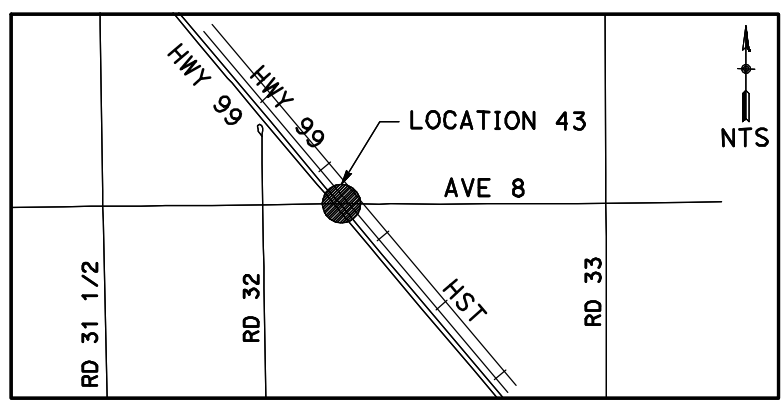
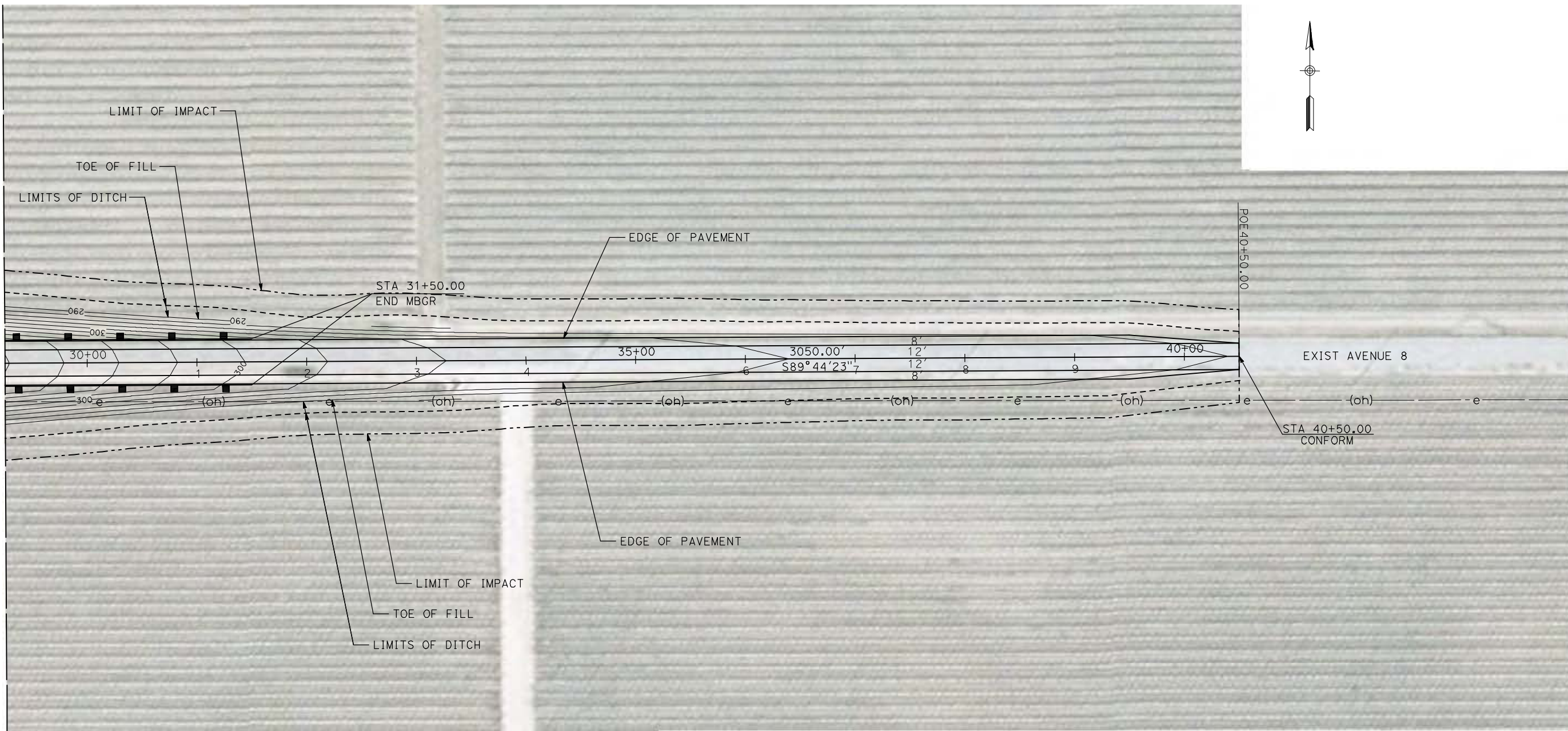


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAINLINE - AVE 24 WYE
 GRADE SEPARATION - AVENUE 8
 LAYOUT
 SHEET 2 OF 3

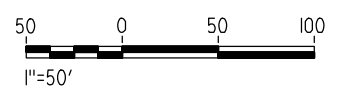
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MATCH LINE STA 29+25
SEE DRAWING CT2002-A



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3001-A THROUGH CT3003-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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A. BOONE
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04/29/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

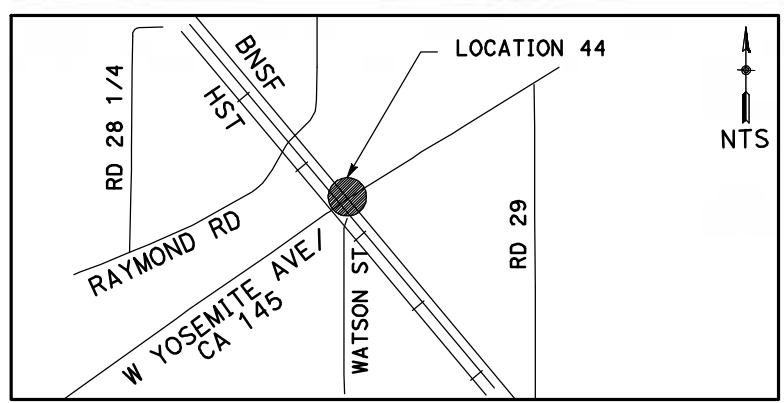
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GRADE SEPARATION - AVENUE 8
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2003-A
SCALE
AS SHOWN
SHEET NO.
OF

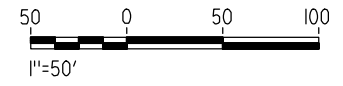
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NO.	R	Δ	T	L	V
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NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3004-A THROUGH CT3006-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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 DRAWN BY
H. PHAN
 CHECKED BY
A. SILVER
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

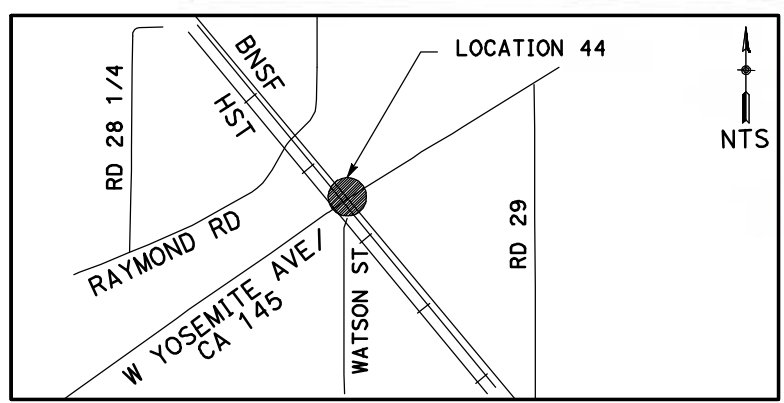
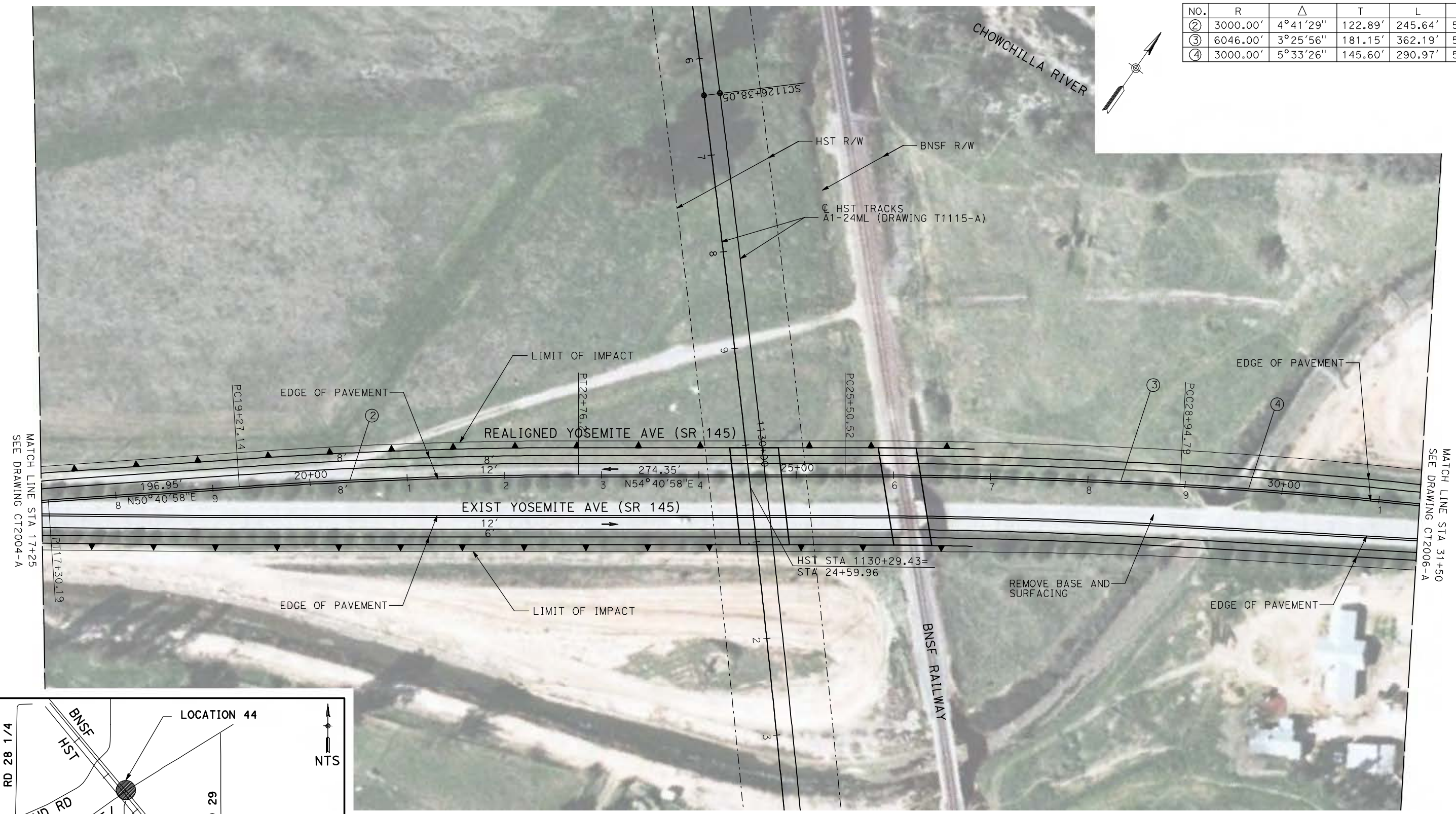
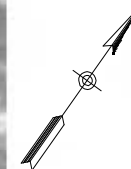


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 UNDERPASS - YOSEMITE AVE (SR 145)
 LAYOUT
 SHEET 1 OF 3

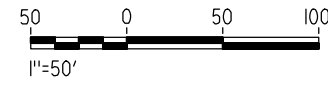
CONTRACT NO.
HSR06-007
 DRAWING NO.
CT2004-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	4°41'29"	122.89'	245.64'	55 MPH
③	6046.00'	3°25'56"	181.15'	362.19'	55 MPH
④	3000.00'	5°33'26"	145.60'	290.97'	55 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3004-A THROUGH CT3006-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
A. SILVER
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

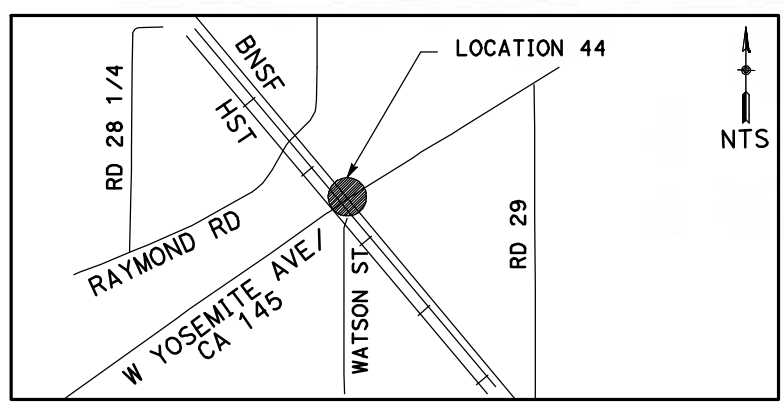
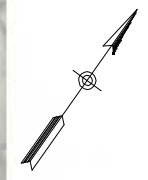


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 UNDERPASS - YOSEMITE AVE (SR 145)
 LAYOUT
 SHEET 2 OF 3

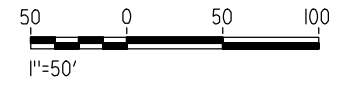
CONTRACT NO.
HSR06-007
 DRAWING NO.
CT2005-A
 SCALE
AS SHOWN
 SHEET NO.
OF

5/1/2011 12:51:55 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\cost_reduction\grade_sep_plan\MF-CT-2006-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	5°33'26"	145.60'	290.97'	55 MPH
⑤	3000.00'	5°43'37"	150.06'	299.86'	55 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3004-A THROUGH CT3006-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
A. SILVER
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

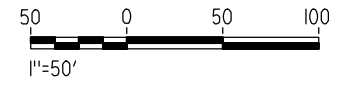
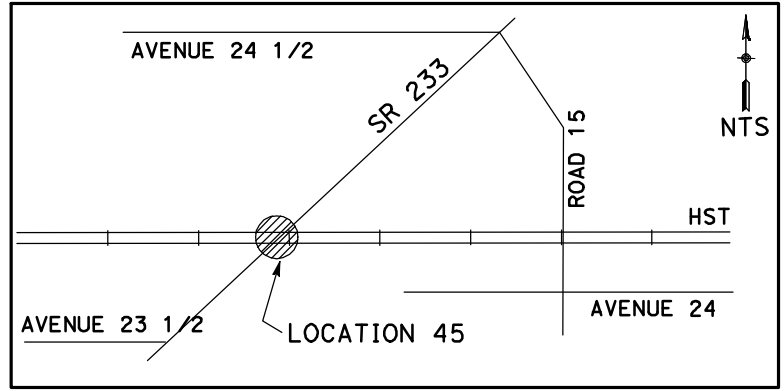
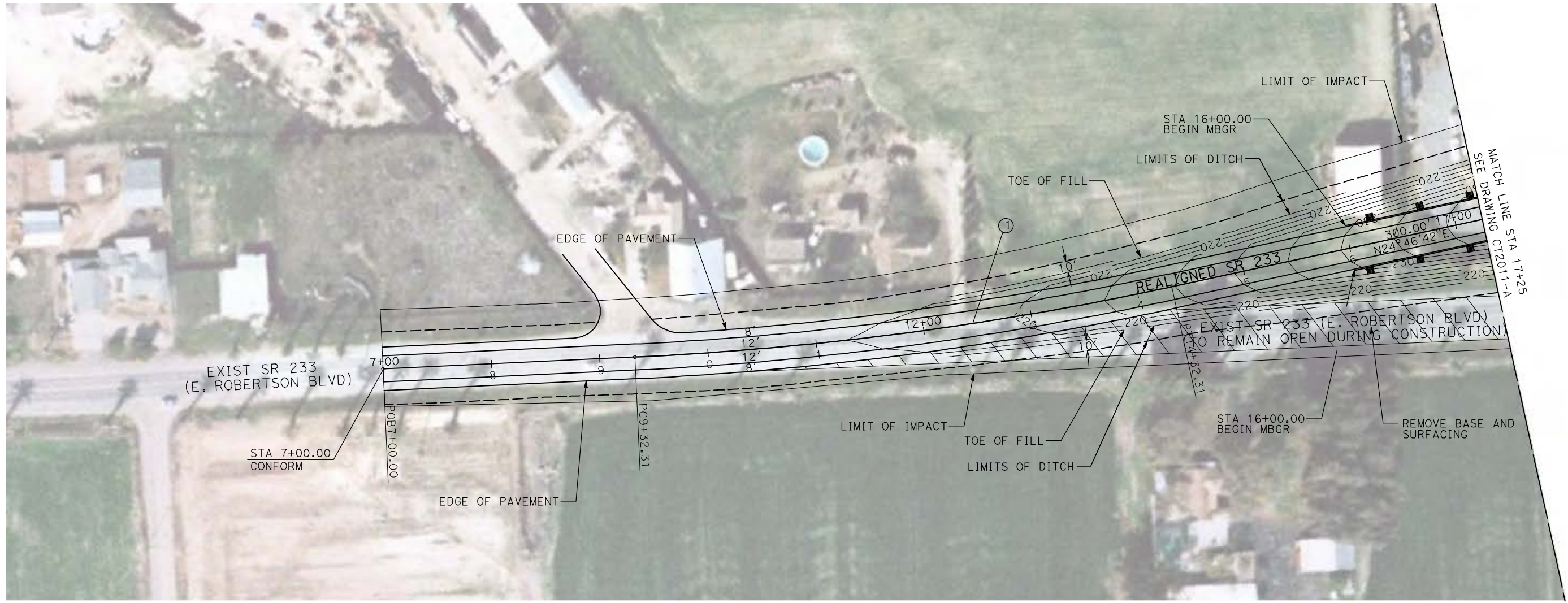
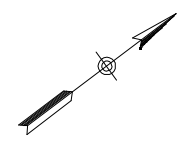


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 UNDERPASS - YOSEMITE AVE (SR 145)
 LAYOUT
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT2006-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

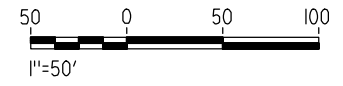
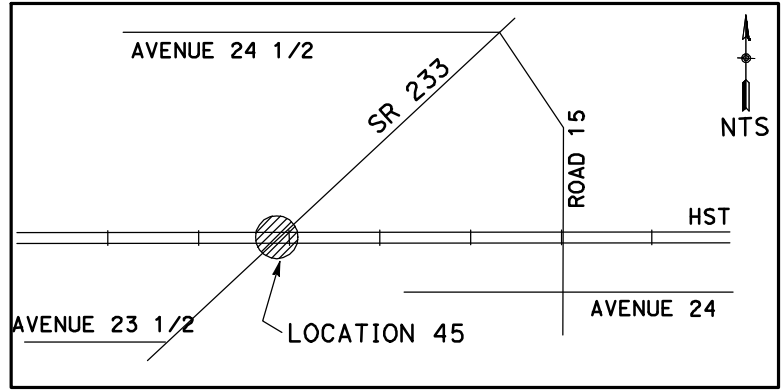
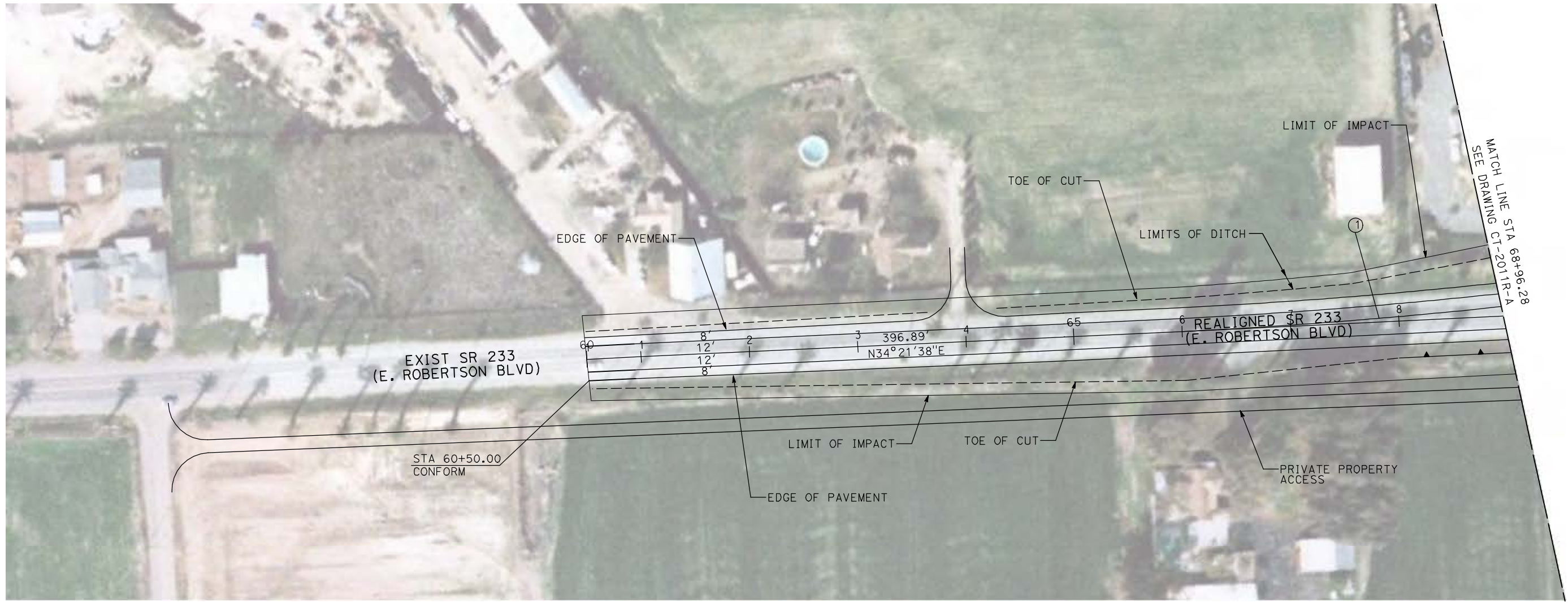
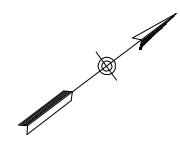


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE (AVE 24 WYE) ALT 1
GRADE SEPARATION - SR 233
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2010-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



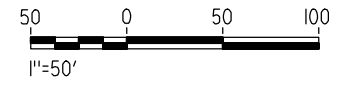
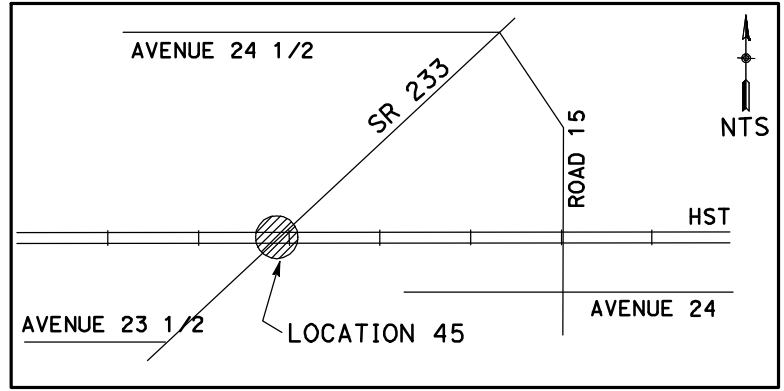
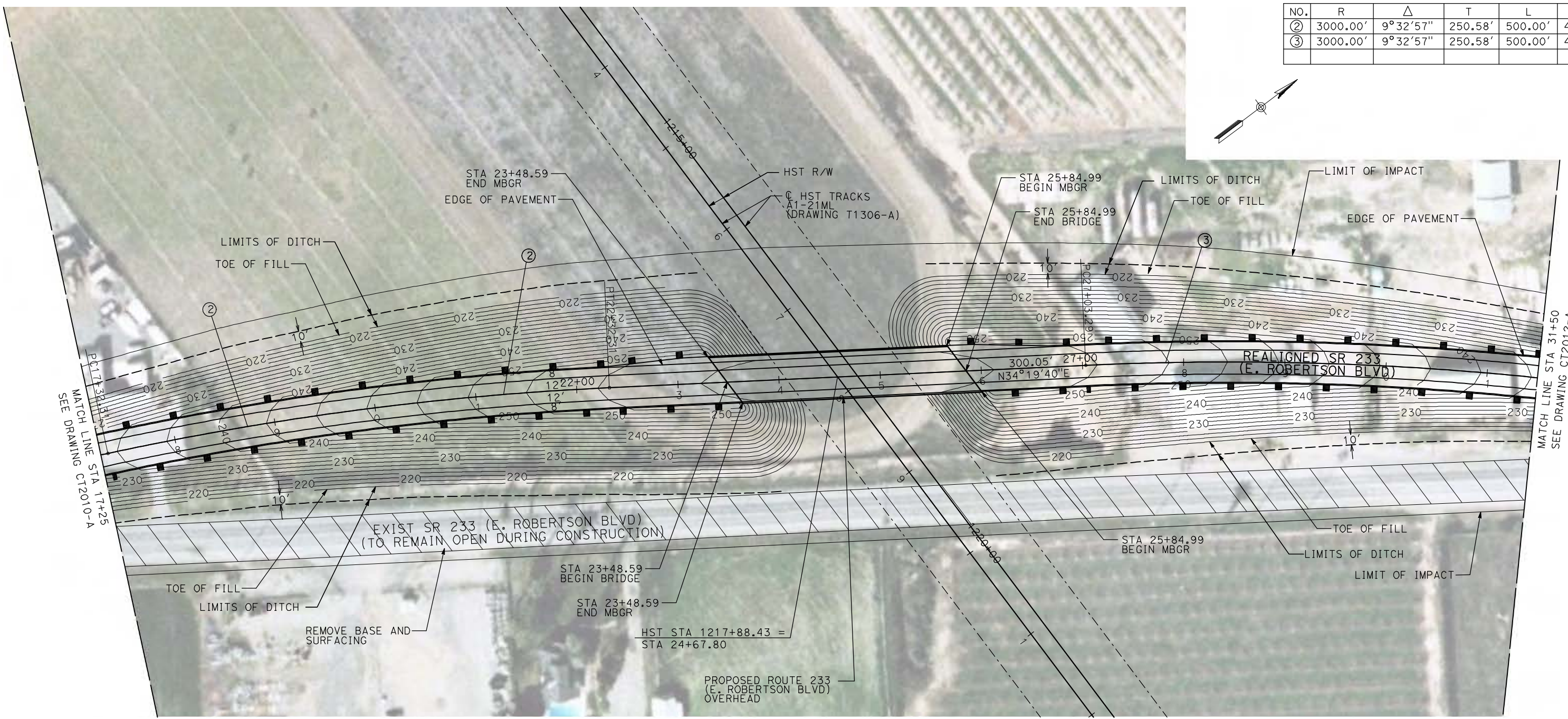
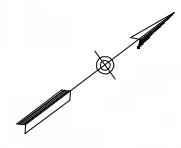
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE (AVE 24 WYE) ALT 2
GRADE SEPARATION - SR 233
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2010R-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



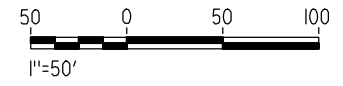
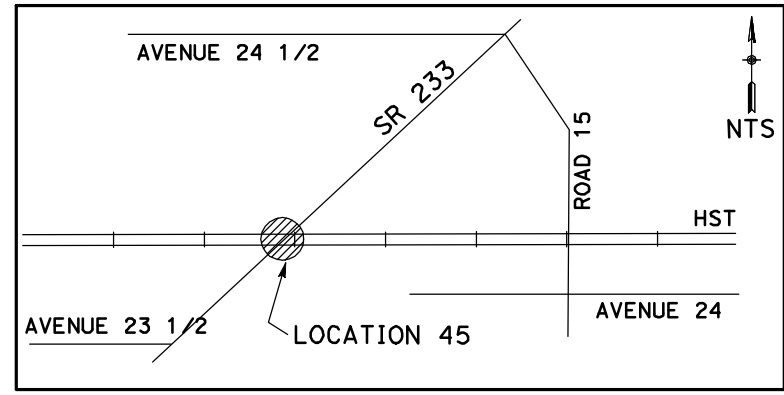
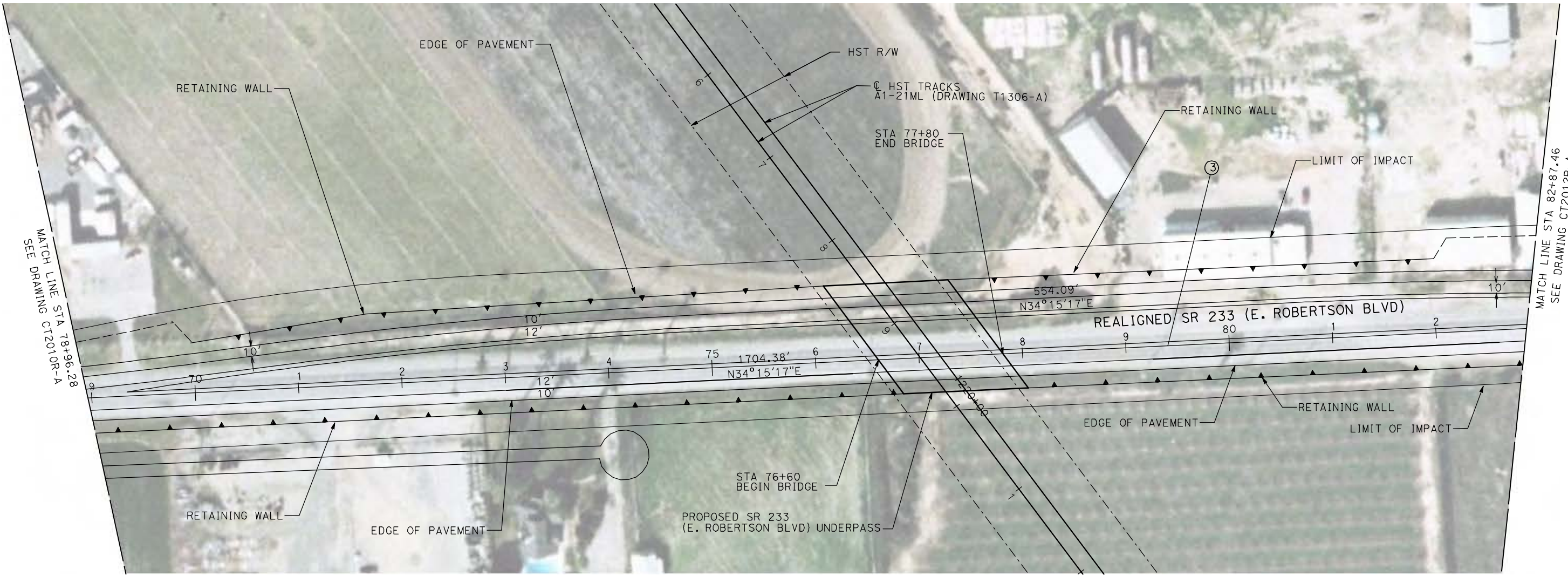
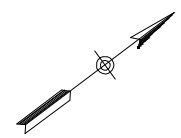
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE (AVE 24 WYE) ALT 1
GRADE SEPARATION - SR 233
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2011-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

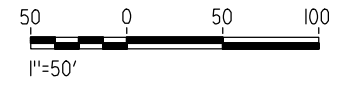
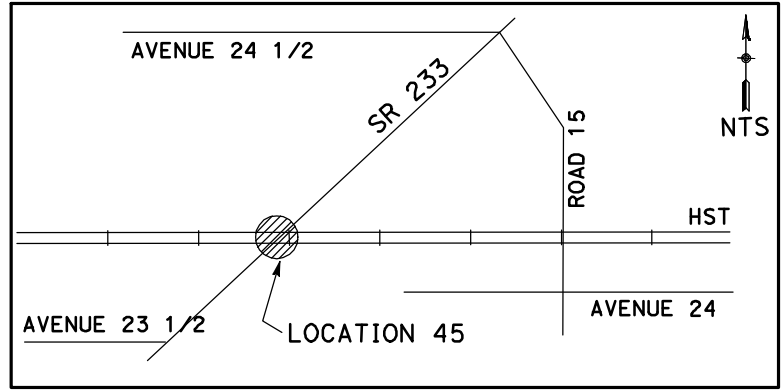
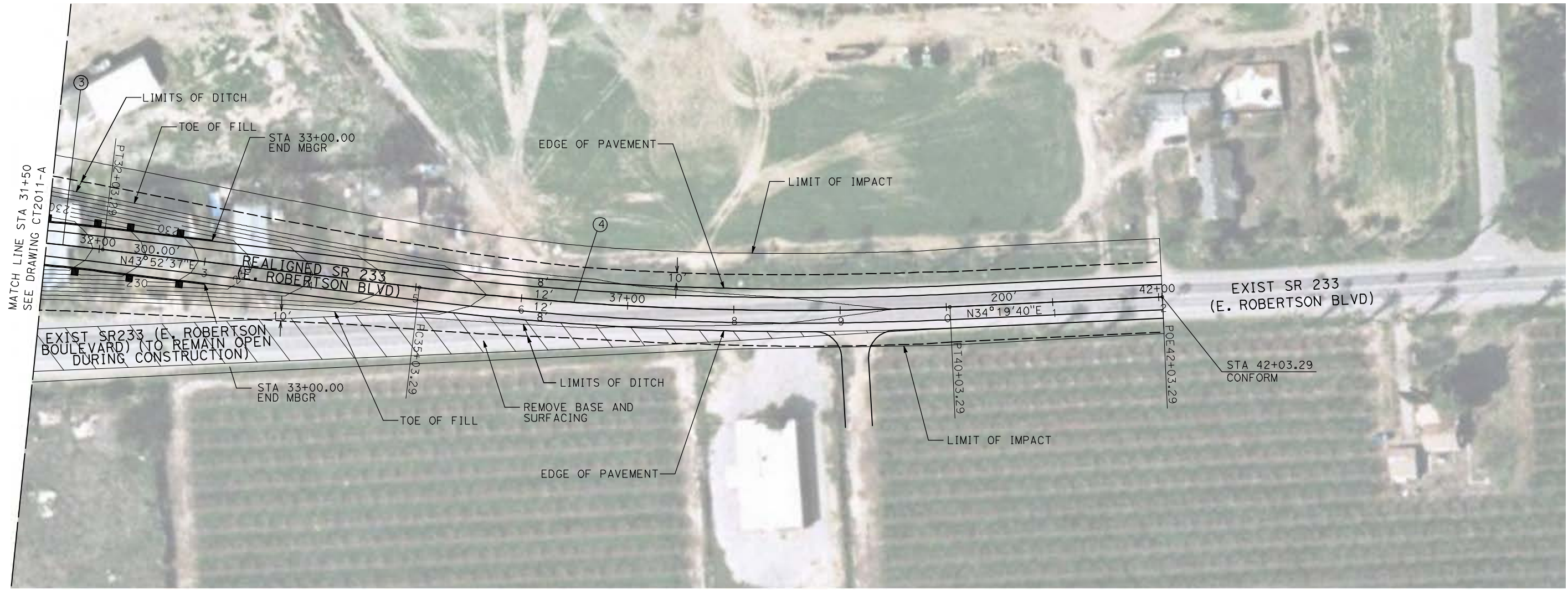
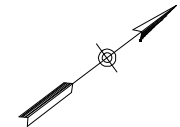


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE (AVE 24 WYE) ALT 2
GRADE SEPARATION - SR 233
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2011R-A
SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
④					



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



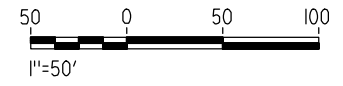
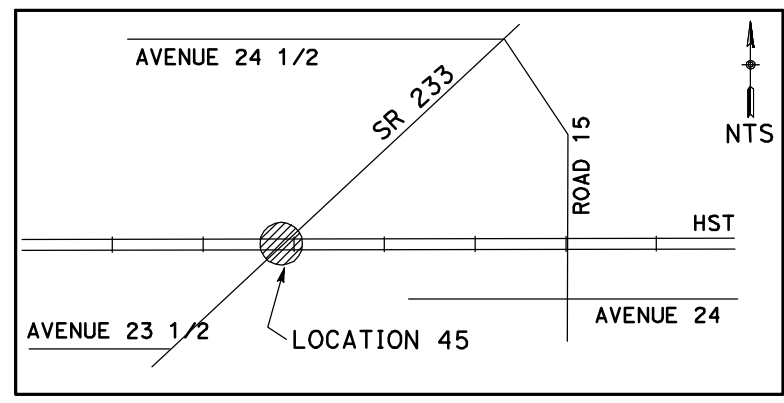
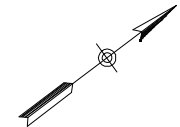
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE (AVE 24 WYE) ALT 1
GRADE SEPARATION - SR 233
LAYOUT
SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT2012-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

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CURVE DATA					
NO.	R	Δ	T	L	V



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

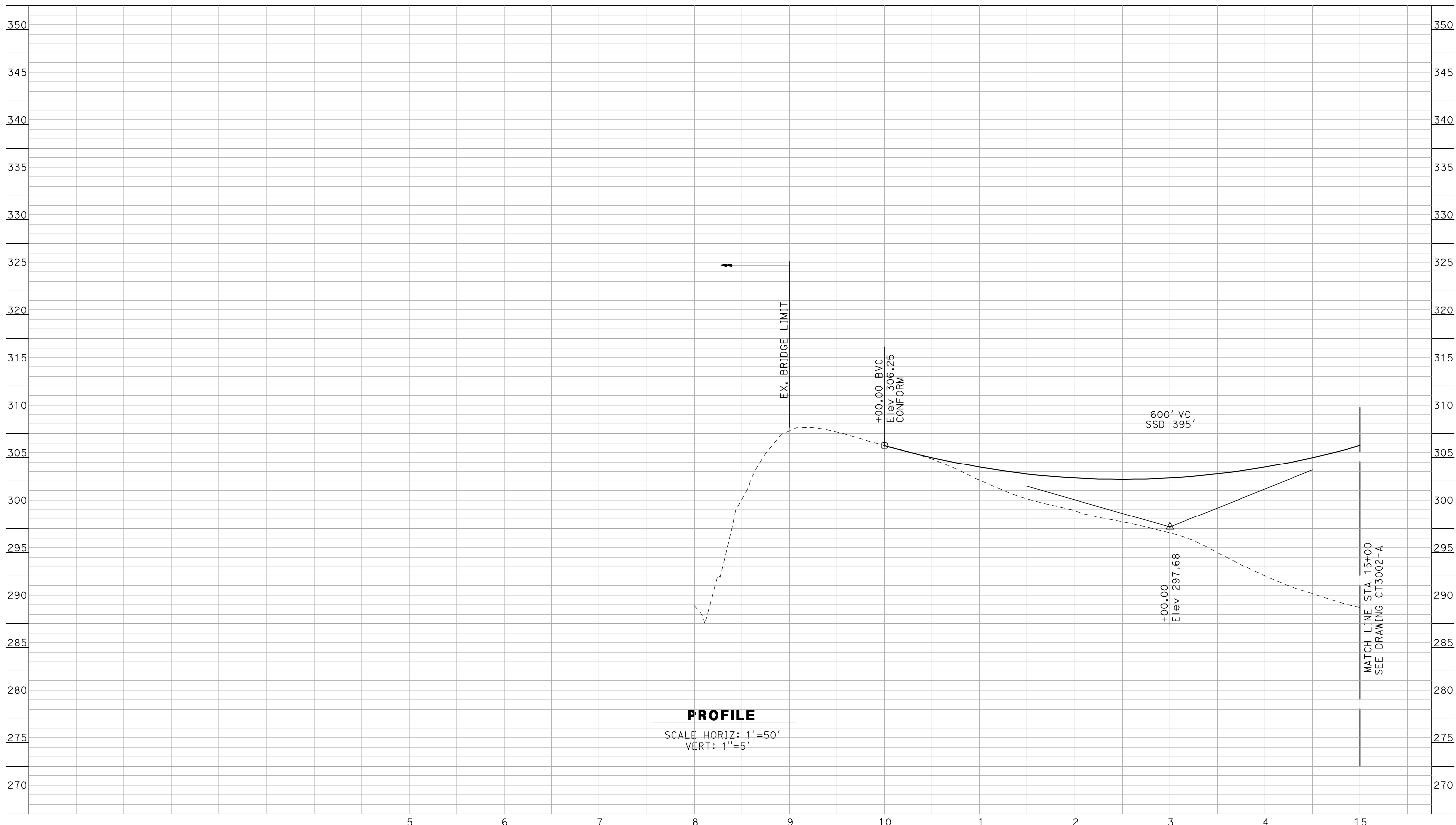


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - SR 233
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2012R-A
SCALE
AS SHOWN
SHEET NO.
OF

355

355



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

GibsonR1 5/1/2011 12:52:00 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\Sheet\ROADWAY\Cost_Reduction\Grade_Sep_Profile\WF-CT-3001-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

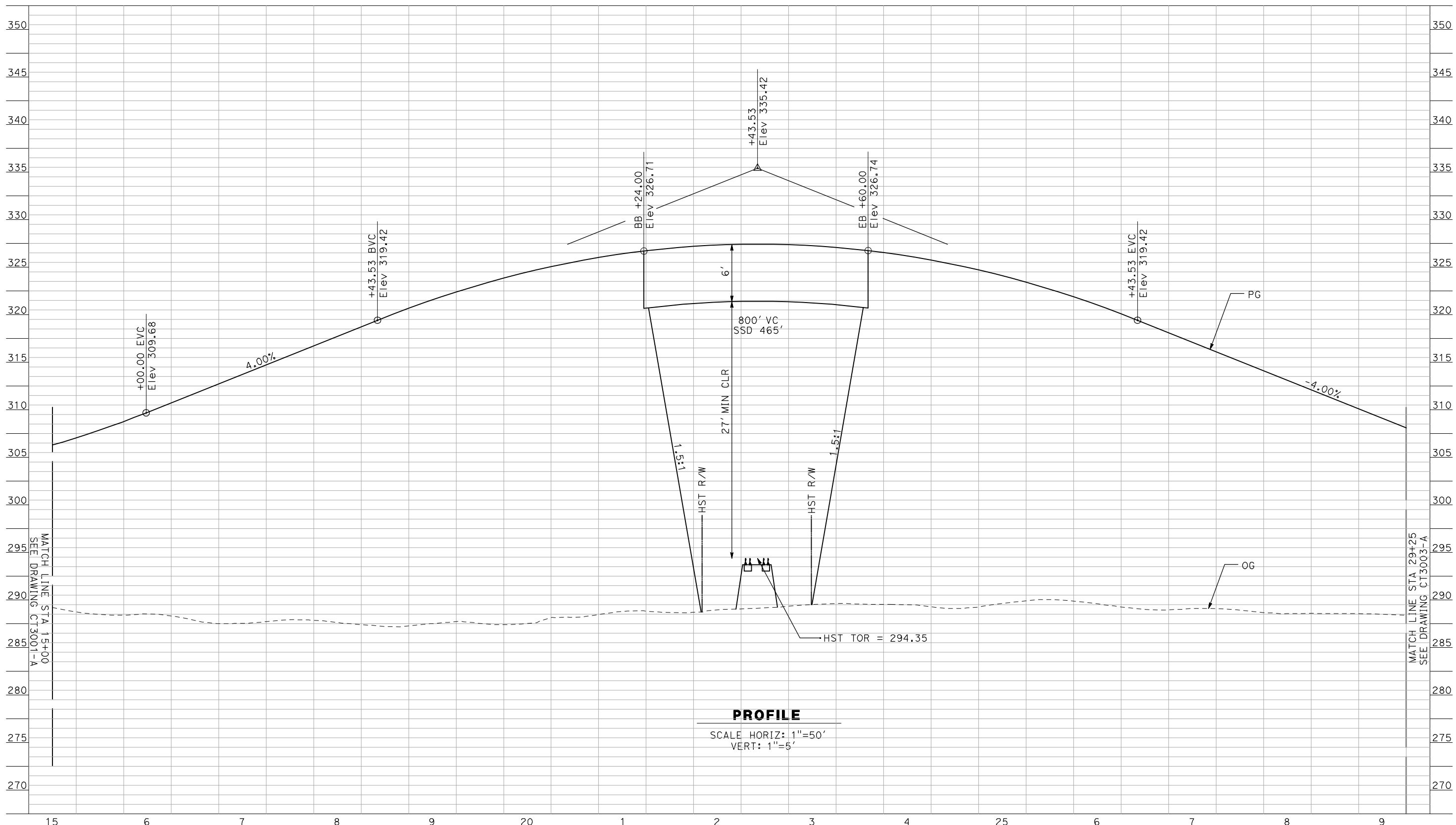


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAINLINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 8
PROFILE
SHEET 1 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT3001-A
SCALE	AS SHOWN
SHEET NO.	OF ###

355

355



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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FOR INTERNAL USE ONLY

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GibsonR1

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

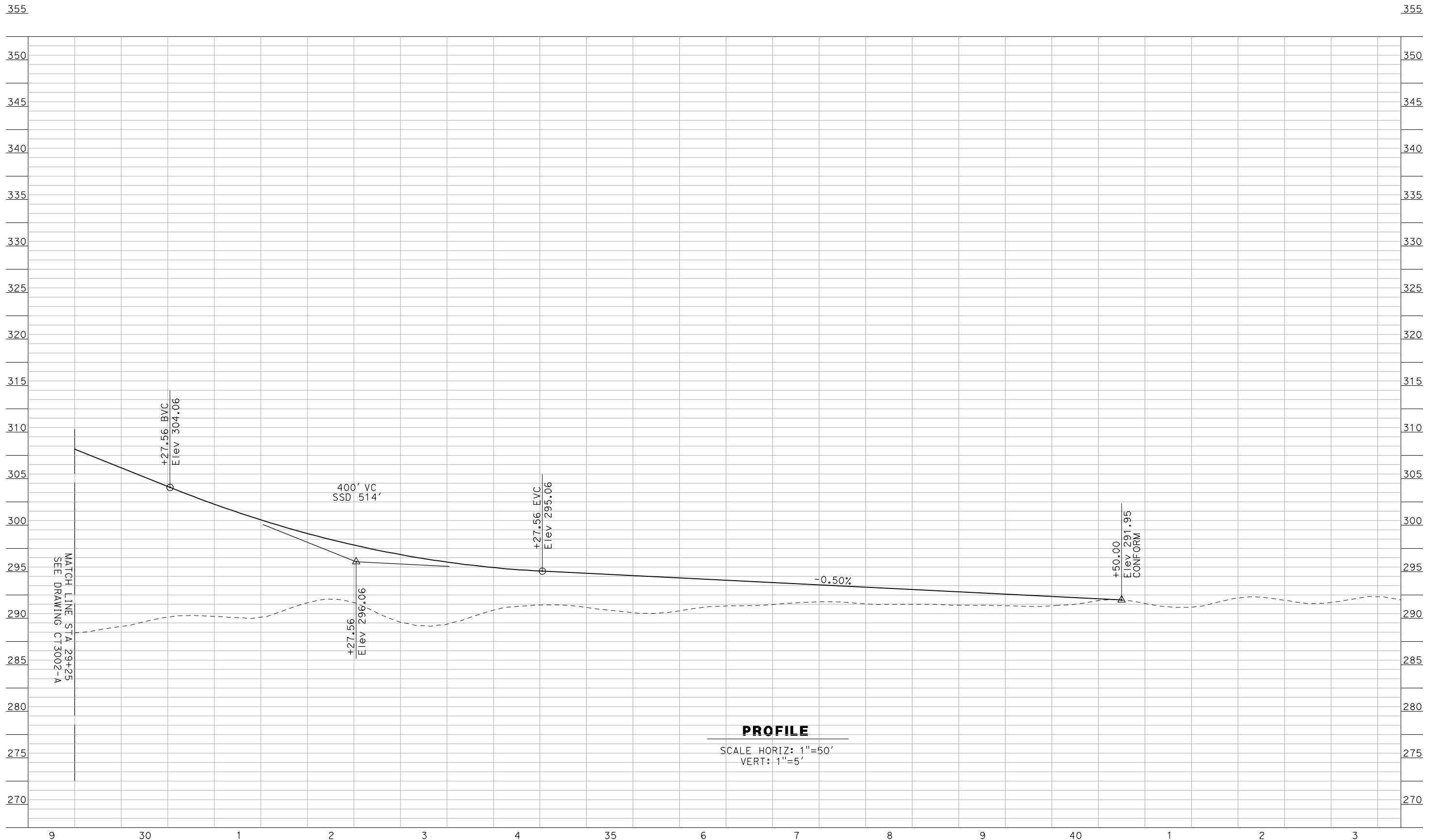
**NOT FOR
CONSTRUCTION**



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

BNSF MAINLINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 8
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT3002-A
SCALE
AS SHOWN
SHEET NO.
OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

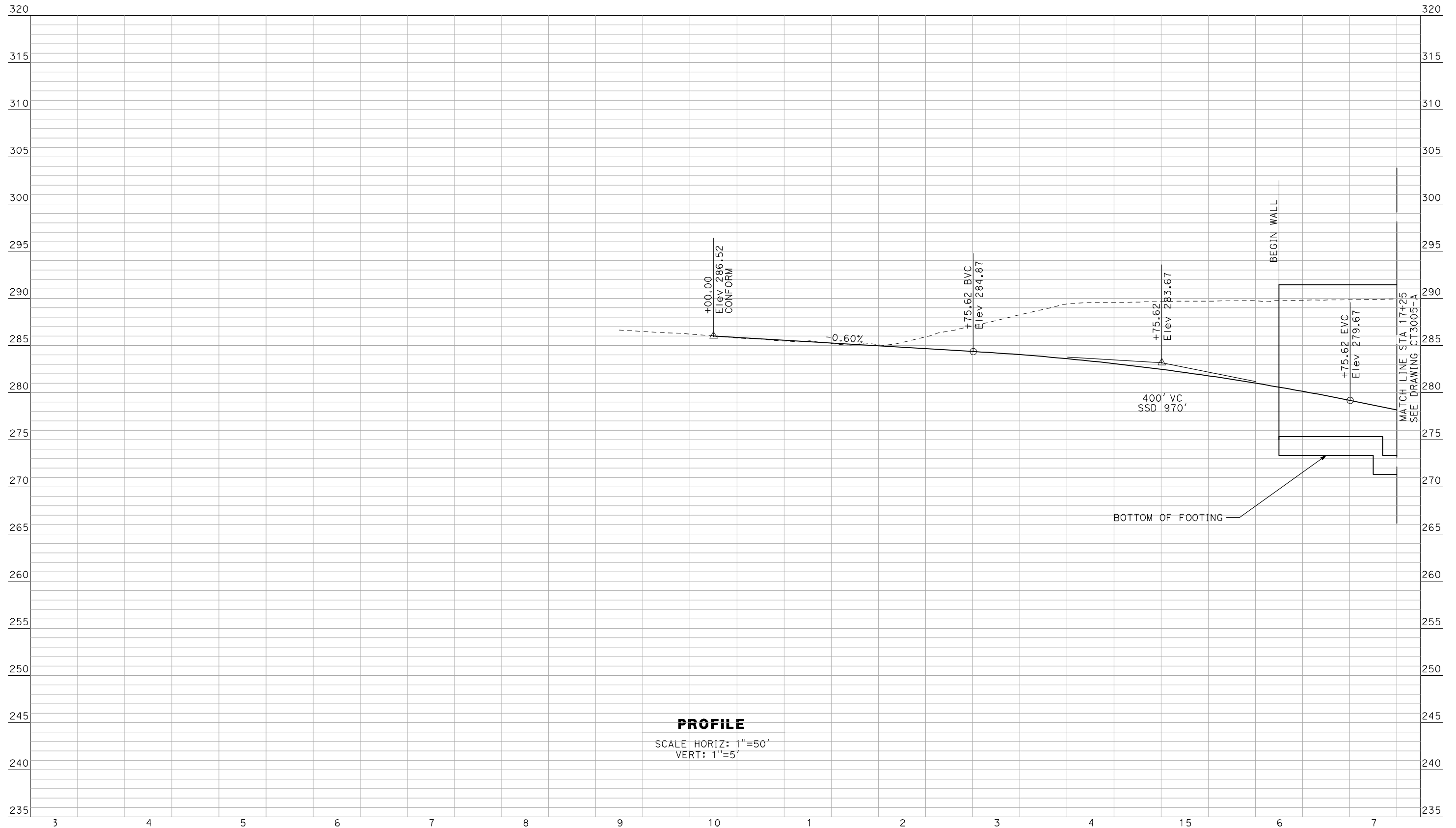


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 8
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT3003-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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 GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 A. SILVER
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

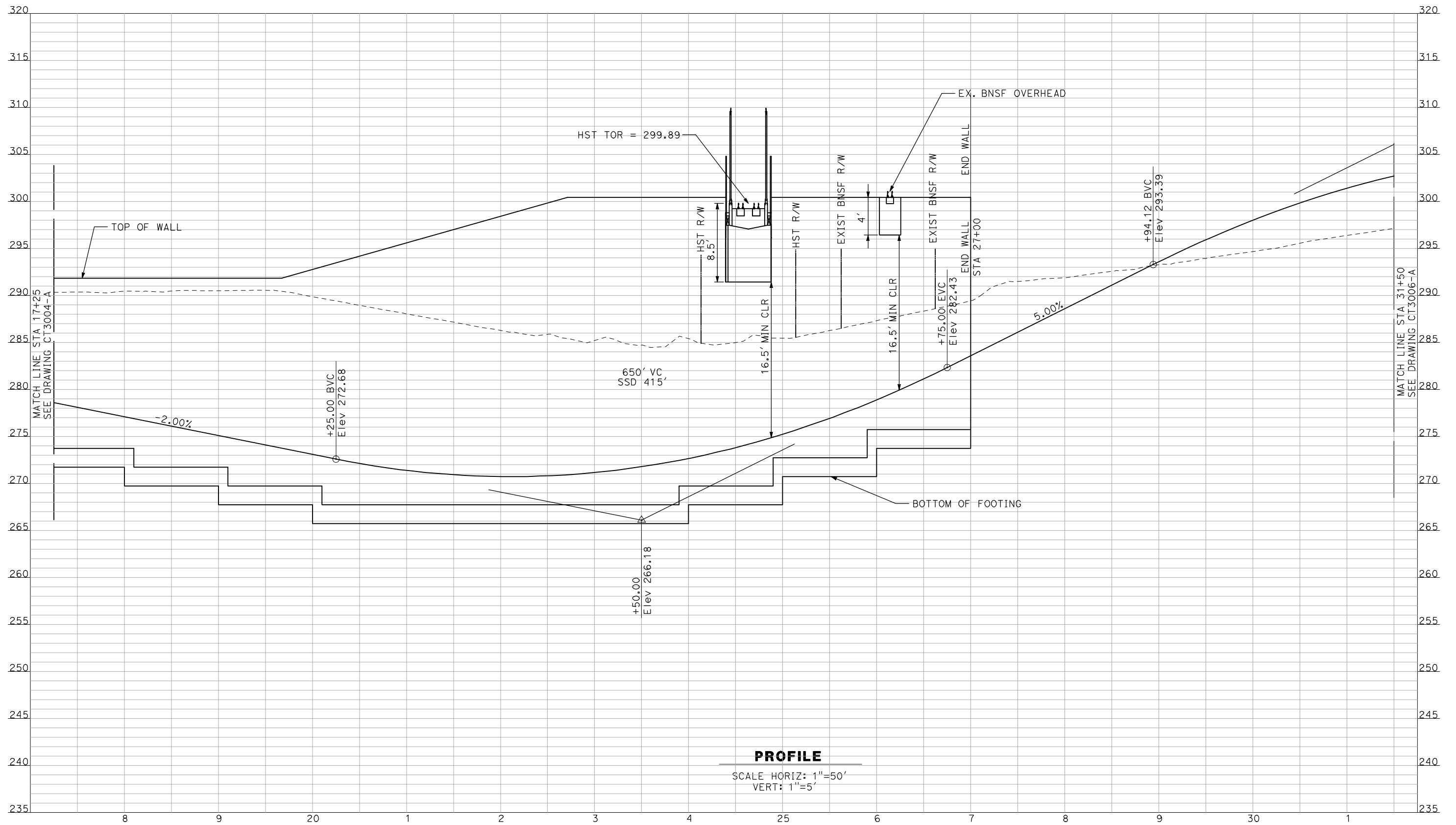
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAINLINE - AVE 24 WYE
 UNDERPASS - YOSEMITE AVE (SR 145)
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT3004-A
 SCALE
 AS SHOWN
 SHEET NO.
 OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

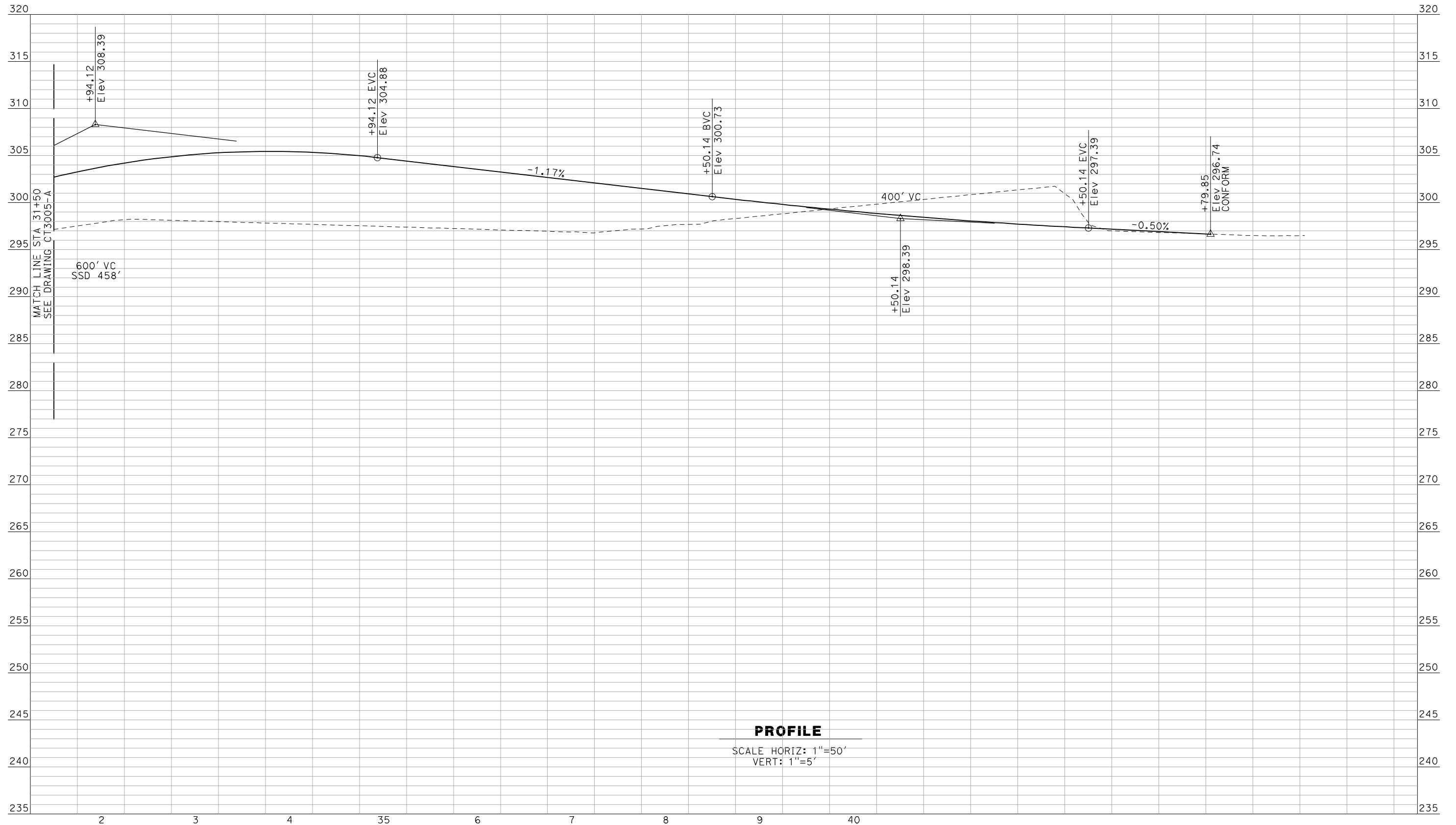
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - AVE 24 WYE
UNDERPASS - YOSEMITE AVE (SR 145)
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT3005-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

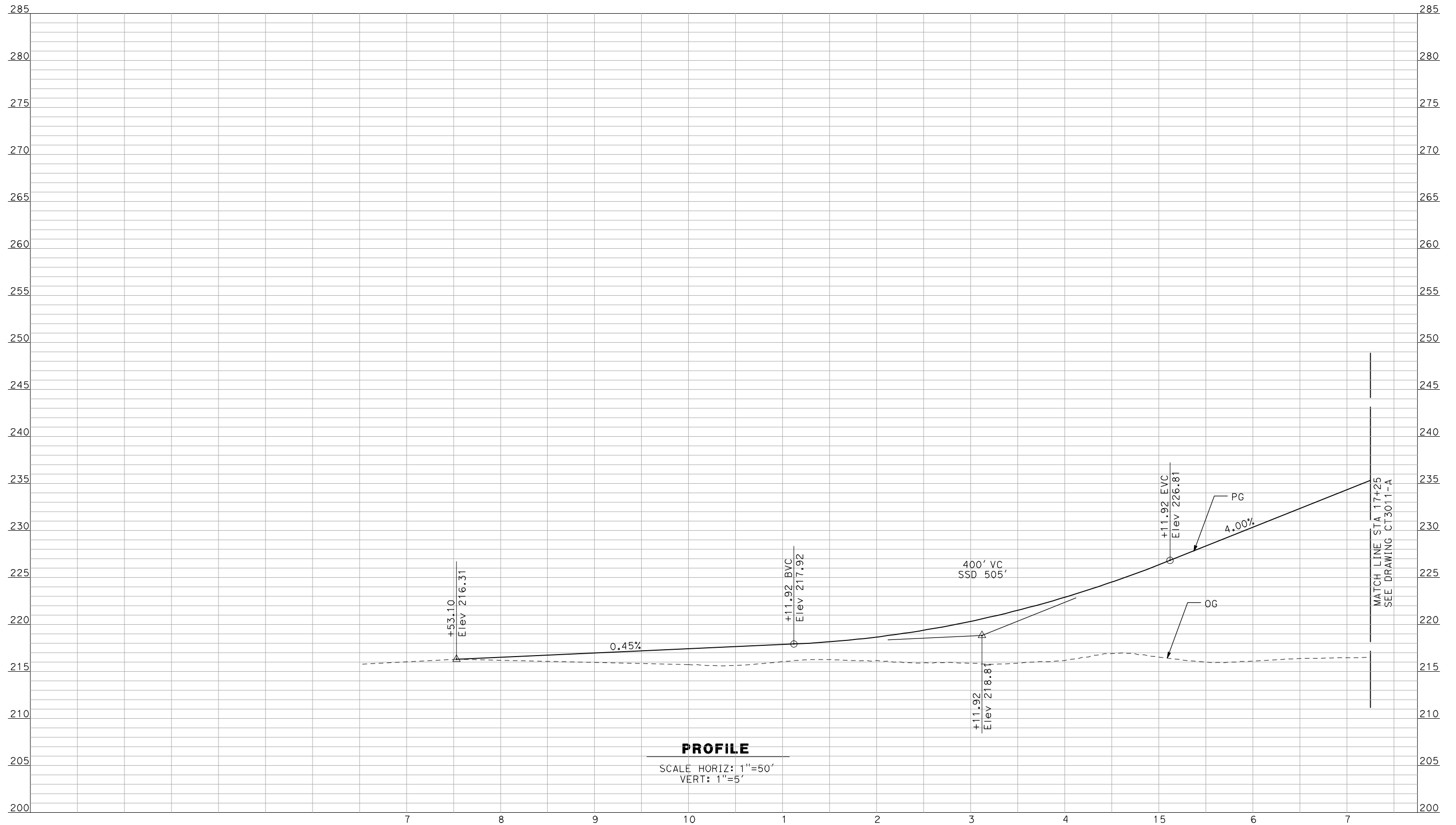


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 24 WYE
UNDERPASS - YOSEMITE AVE (SR 145)
PROFILE
SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT3006-A
SCALE	AS SHOWN
SHEET NO.	OF ###

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FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

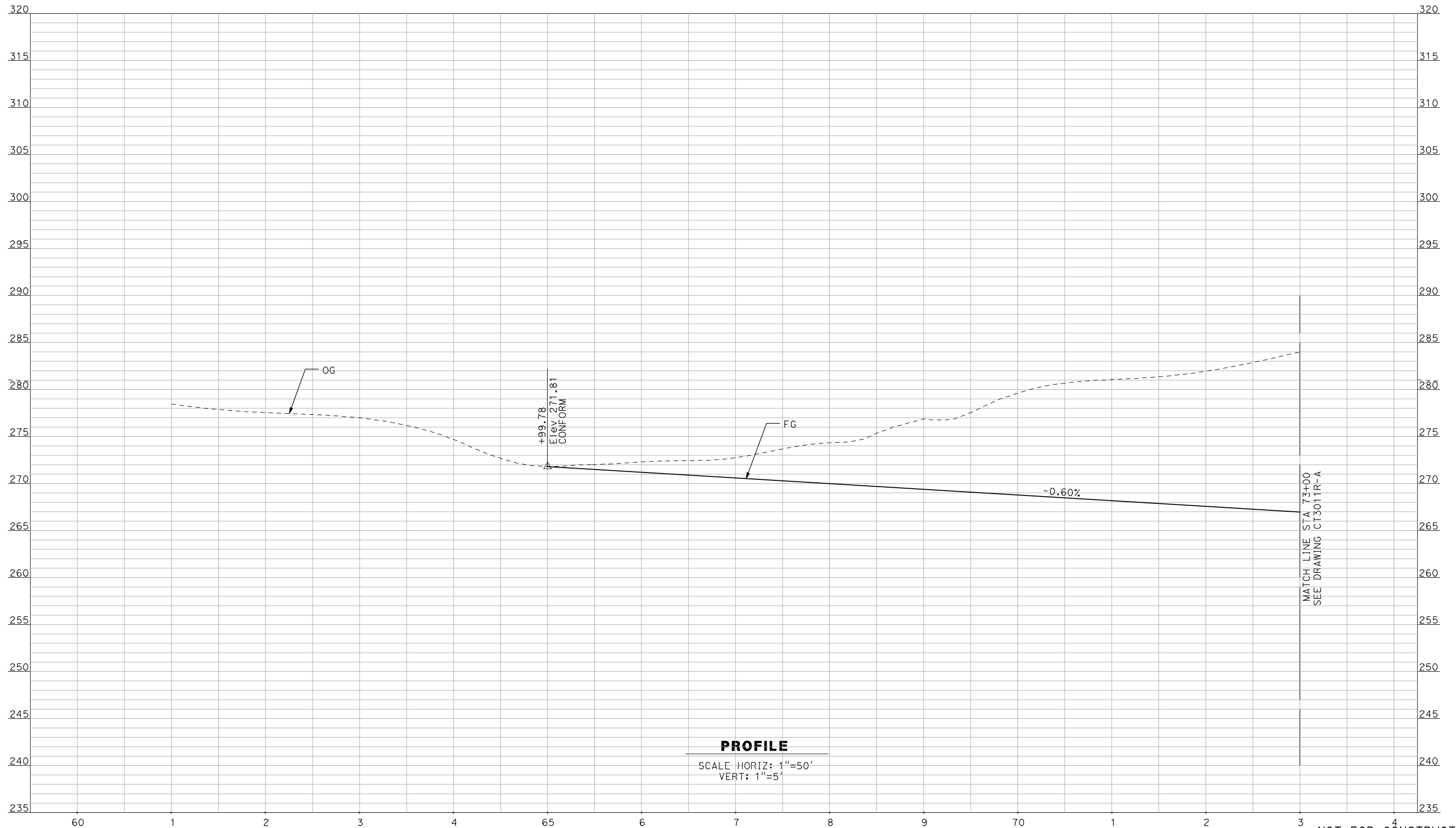
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - SR 233
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT3010-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

NOT FOR CONSTRUCTION
 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

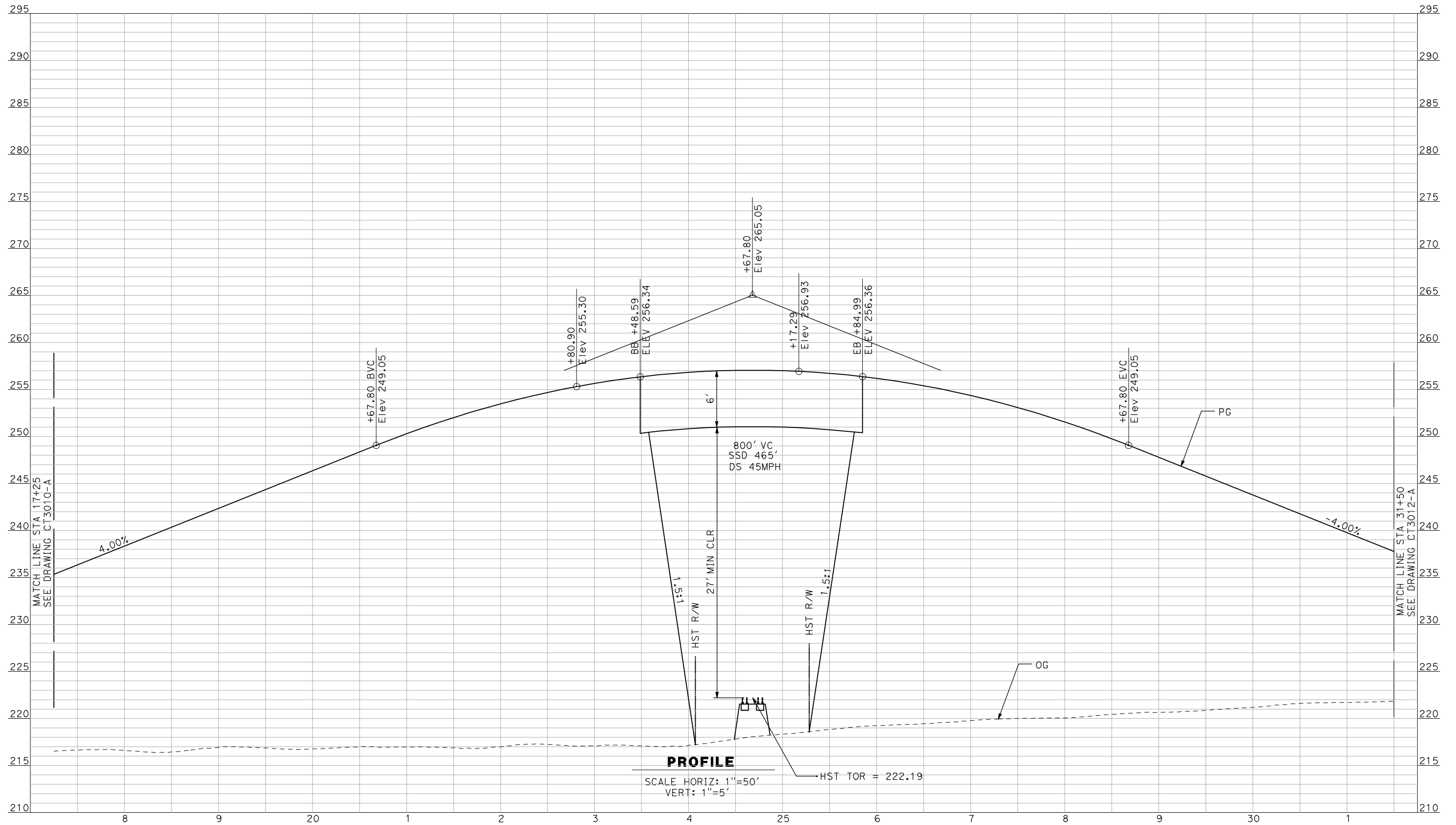
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAINLINE - AVE 24 WYE
 UNDERPASS - ROUTE 233
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT3010R-A
 SCALE
AS SHOWN
 SHEET NO.
OF

5/1/2011 12:50:40 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave24\Volume 2A - Ave 24 Wye Caltrans Facilities\Profile\WF-CT-3011-A.dgn



PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'
 HST TOR = 222.19

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 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

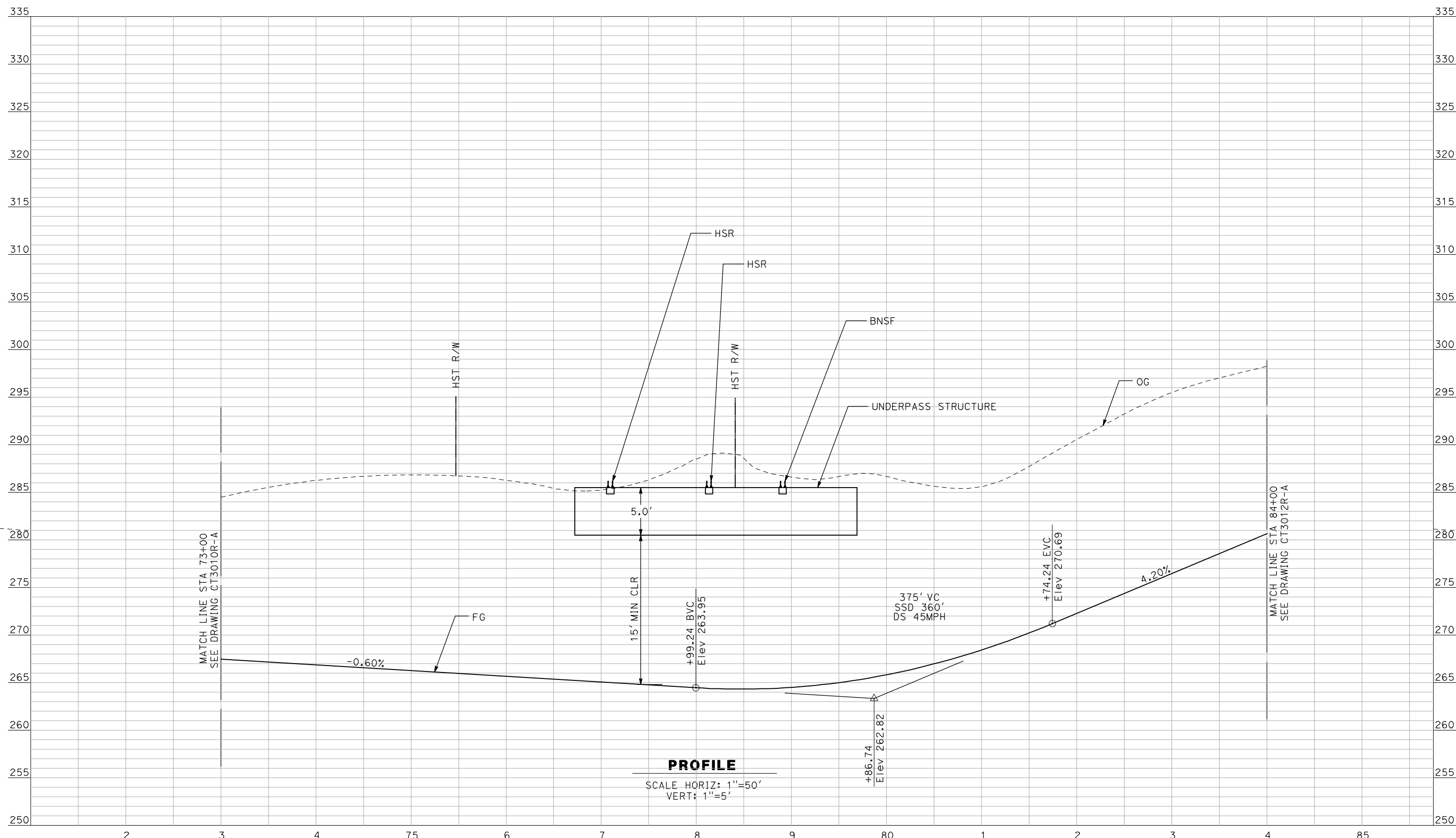
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - SR 233
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT3011-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

85
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FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

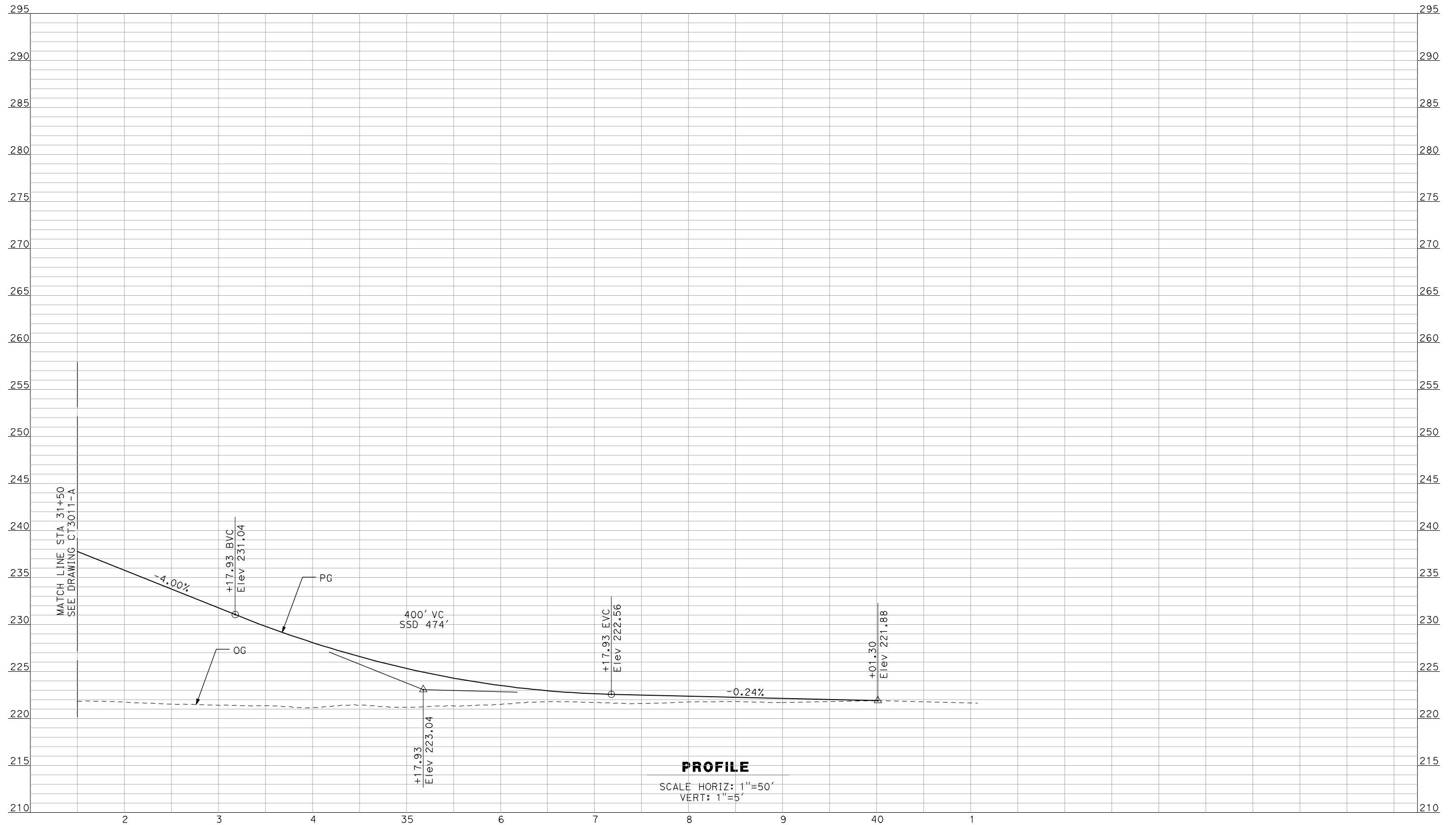
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - AVE 24 WYE
UNDERPASS - ROUTE 233
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT3011R-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

NOT FOR CONSTRUCTION
 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 R. GIBSON
 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

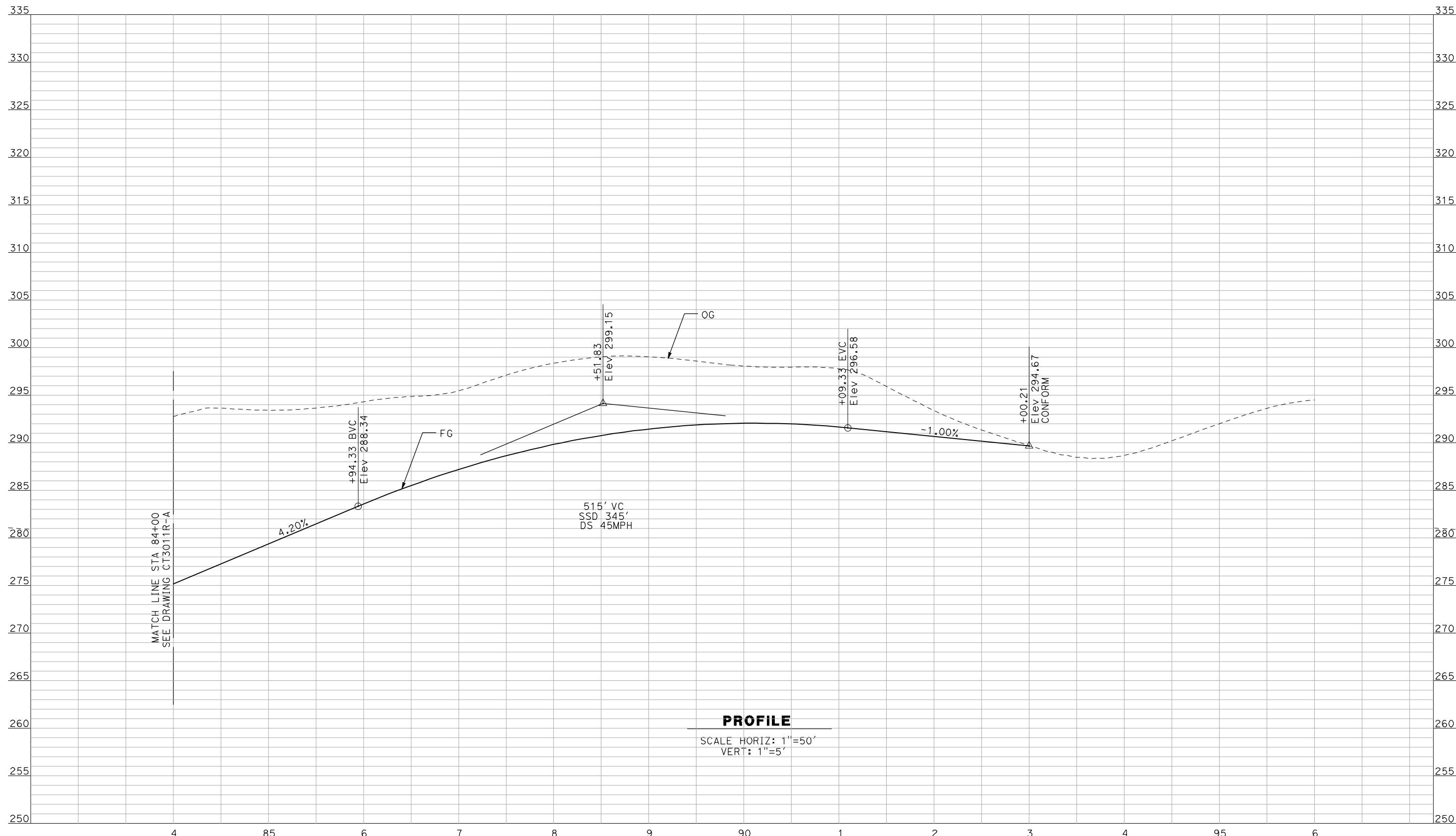


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
 GRADE SEPARATION - SR 233
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT3012-A
 SCALE
 AS SHOWN
 SHEET NO.
 OF ###

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

NOT FOR CONSTRUCTION
 FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

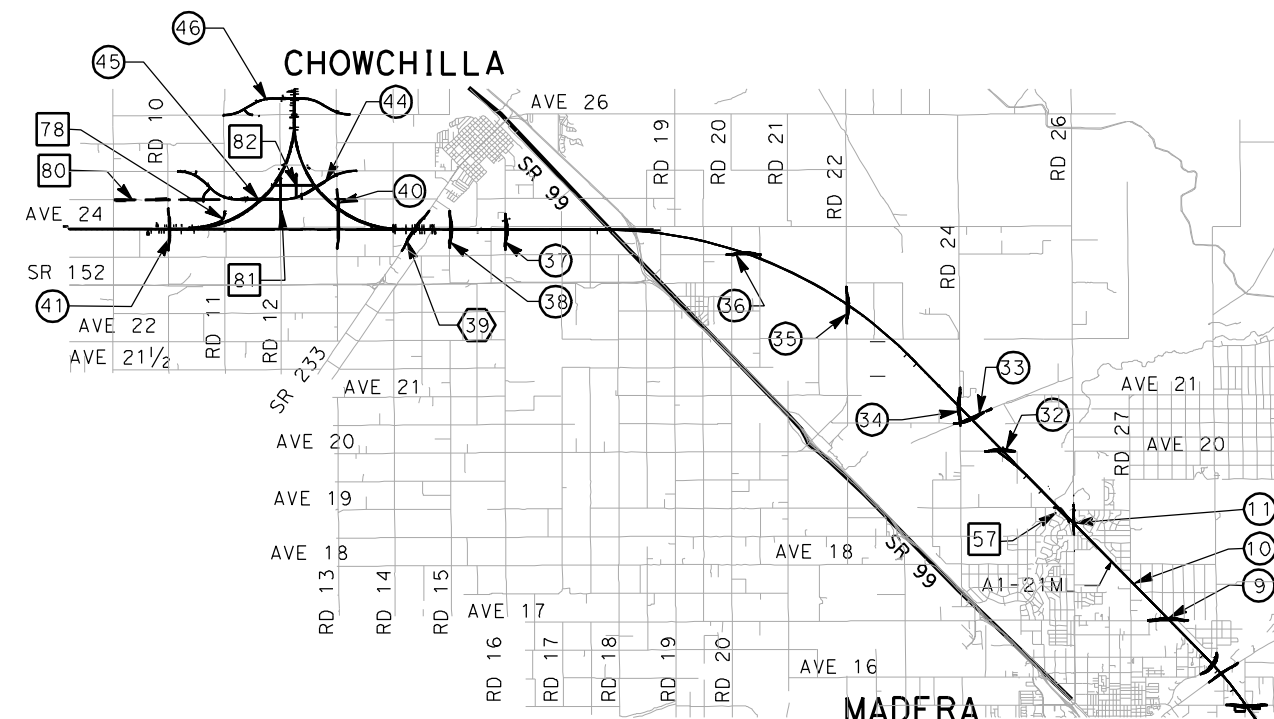


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAINLINE - AVE 24 WYE
 UNDERPASS - ROUTE 233
 PROFILE
 SHEET 3 OF 3

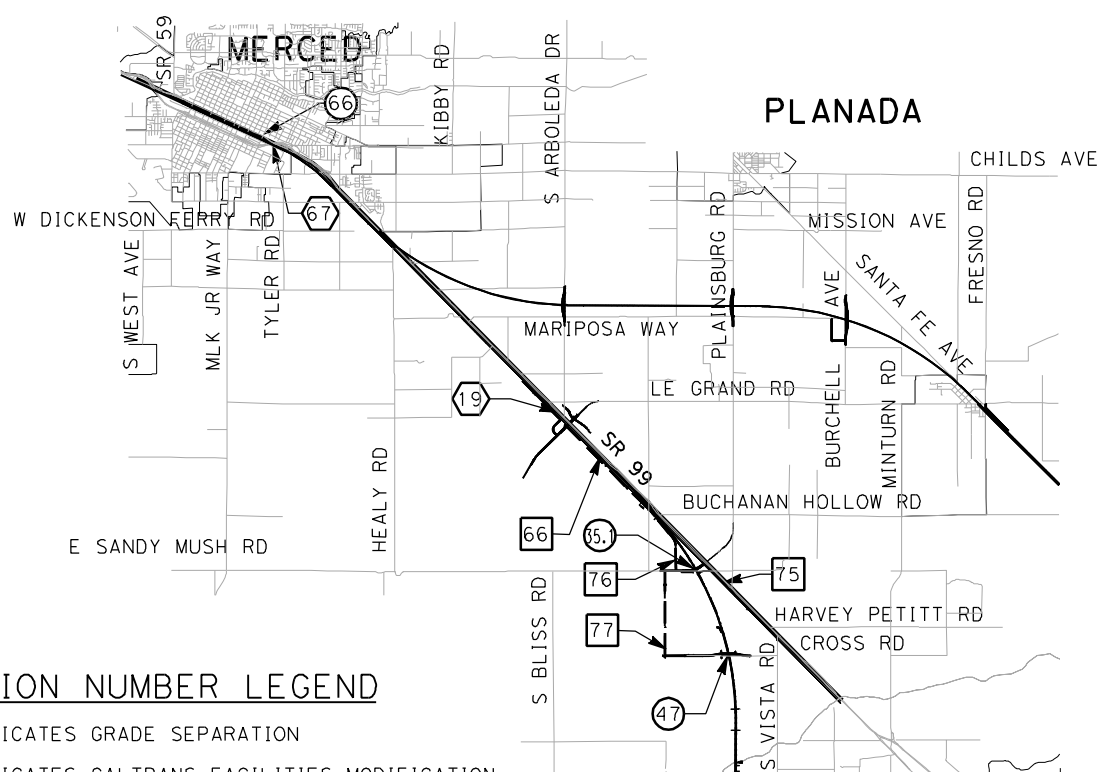
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HSR06-007
 DRAWING NO.
CT3012R-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
43	AVENUE 8 OVERHEAD	ST1000	CT2000-A - CT2002-A
39	SR 233 OVERHEAD	ST1014	CT7200-B - CT7203-B
67	SR 99 SOUTHBOUND OVERHEAD	ST1181	



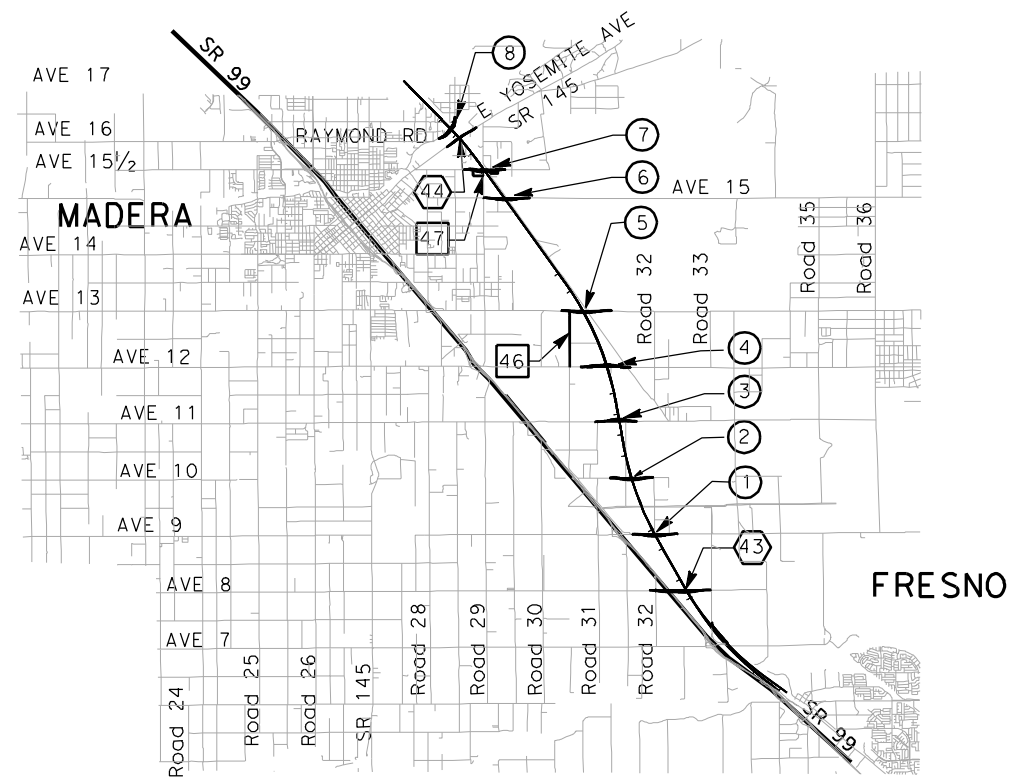
VICINITY MAP 2



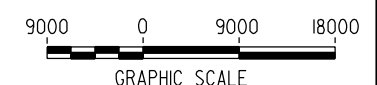
VICINITY MAP 1

LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- (X) - INDICATES CALTRANS FACILITIES MODIFICATION
- (X) - INDICATES LOCAL ROAD RELOCATION



VICINITY MAP 3

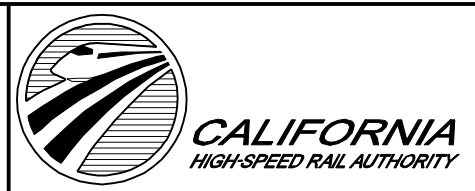


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. Lee
DRAWN BY
E. CISNEROS
CHECKED BY
J. ZANDIAN
IN CHARGE
A. Boone
DATE
04/29/2011

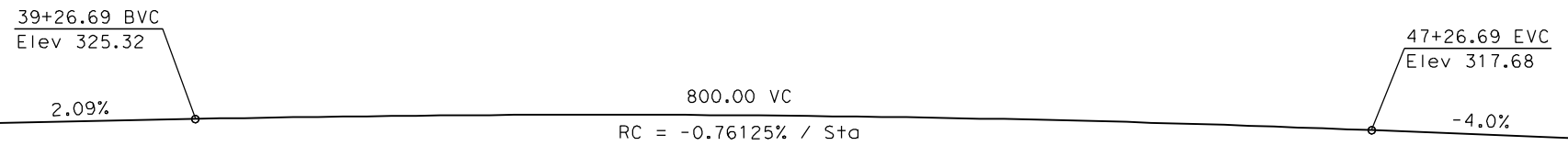
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

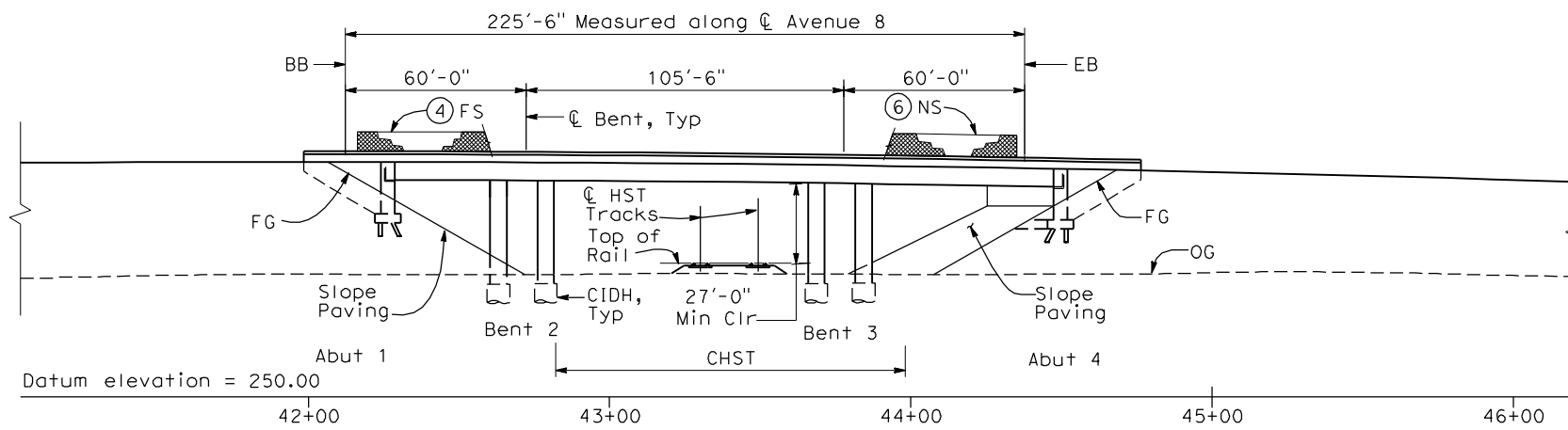


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 1 OF 1

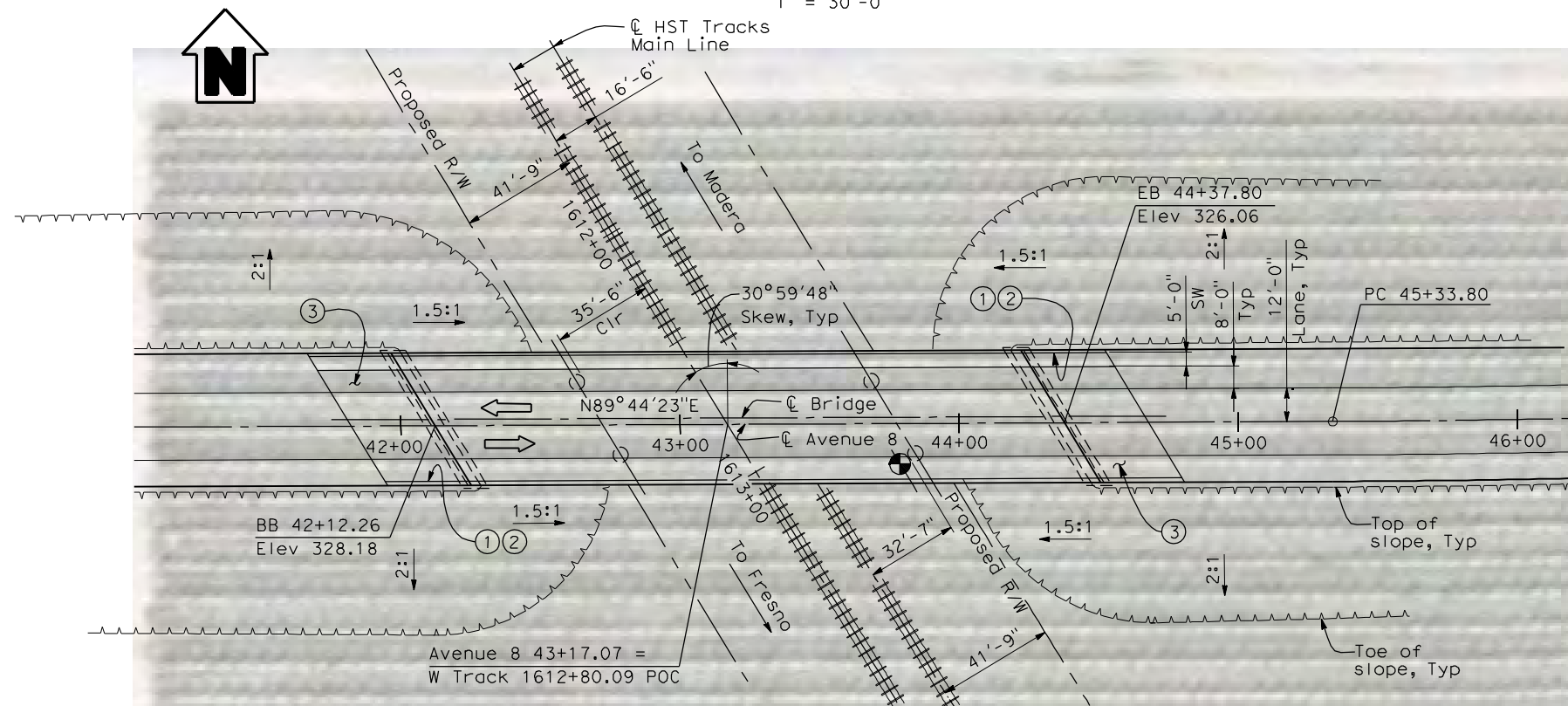
CONTRACT NO.	HSR06-007
DRAWING NO.	SB0201
SCALE	As shown
SHEET NO.	OF



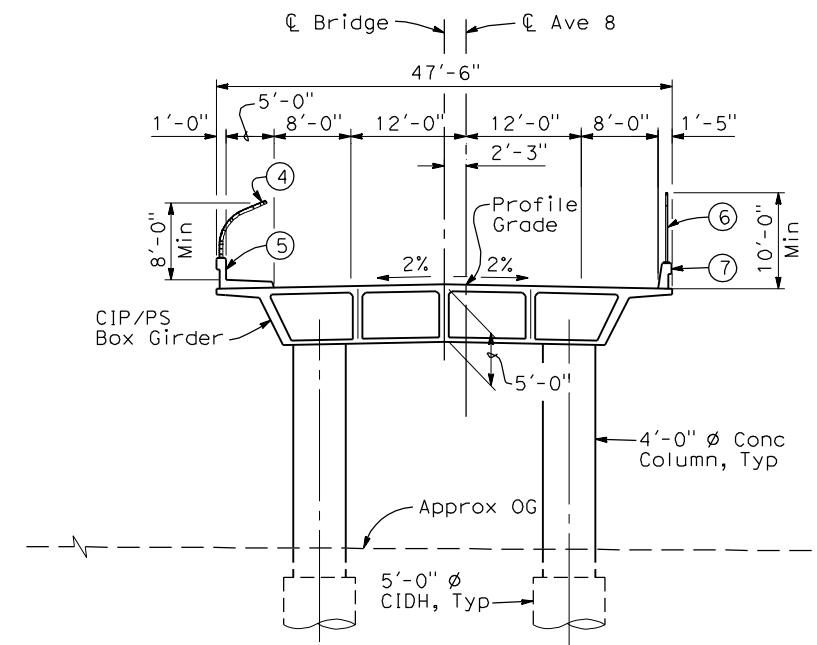
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

NOTES:

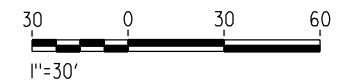
- ① Paint "Bridge No. XX-XX"
- ② Paint "Avenue 8 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
- 8 Bearing of Avenue 8 to be determined.
- 9 Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	225'-6"
WIDTH	=	47'-6"
AREA	=	10,713 ft ²
COST/CFE INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____

LOCATION 43



4/30/2011 4:57:24 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21ML2-W-ML-ST-OH_Ave_8.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. LEE
DRAWN BY
E. CISNEROS
CHECKED BY
J. RENTERIA
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 8 OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1000
SCALE
As shown
SHEET NO.
OF

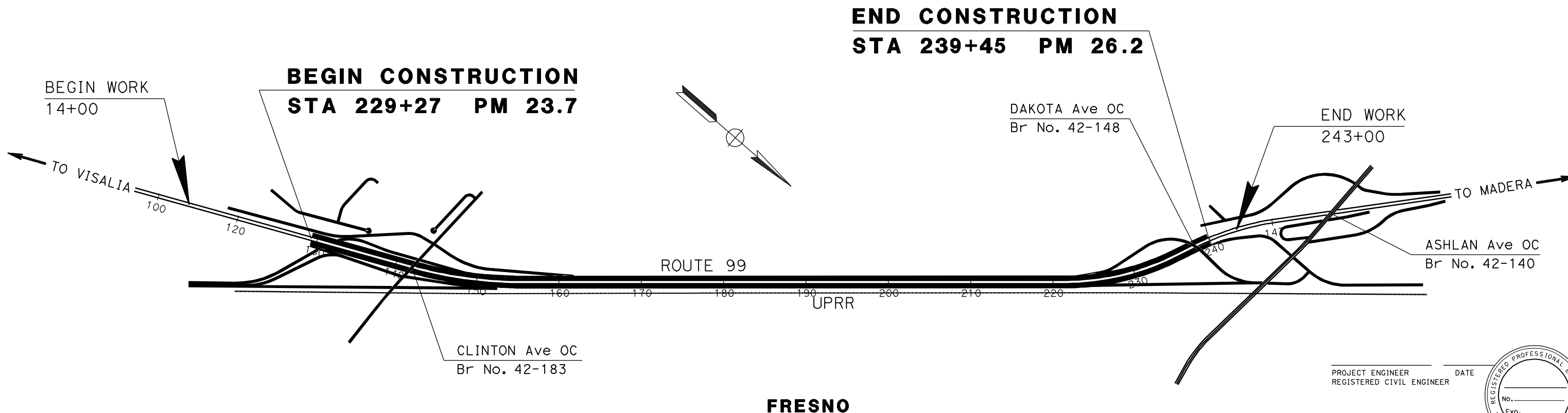
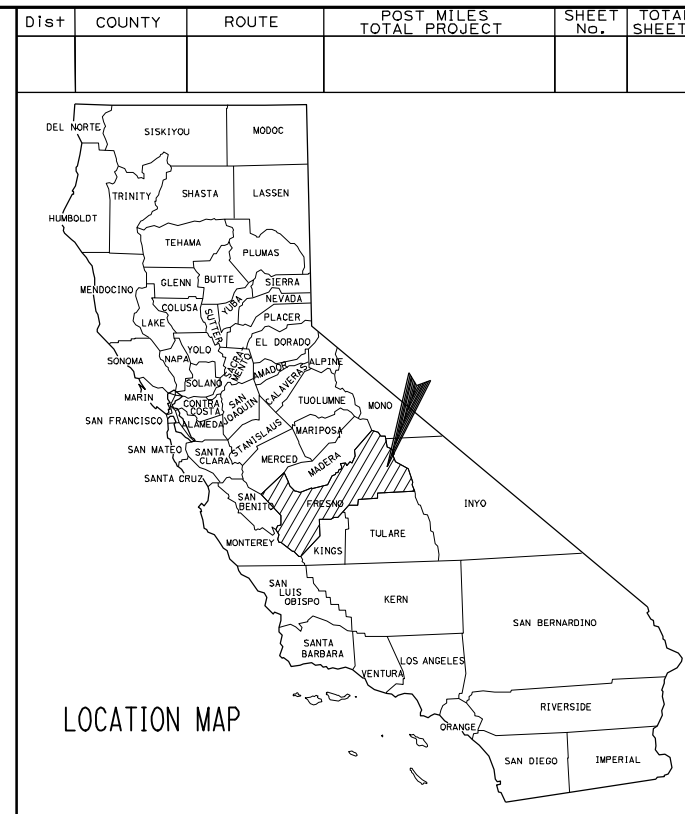
INDEX OF PLANS

T-1	TITLE SHEET
X-1 TO X-15	TYPICAL CROSS SECTIONS
K-1	KEYMAP
L-1 TO L-17	LAYOUT
P-1 TO P-27	PROFILE AND SUPERELEVATION
SC-1 TO SC-18	STAGE CONSTRUCTION
BR-1 TO BR-6	STRUCTURE PLANS

CALIFORNIA HIGH SPEED RAIL AUTHORITY

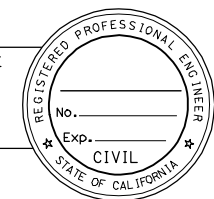
PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY IN THE CITY OF FRESNO 0.5 MI SOUTH OF CLINTON AVENUE TO 0.2 MI SOUTH OF ASHLAN AVENUE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT ENGINEER _____ DATE _____
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE _____



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK

DRAWN BY
L. ROS

CHECKED BY
L. HEUSTON

IN CHARGE
J. MATSUI-DRURY

DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TITLE

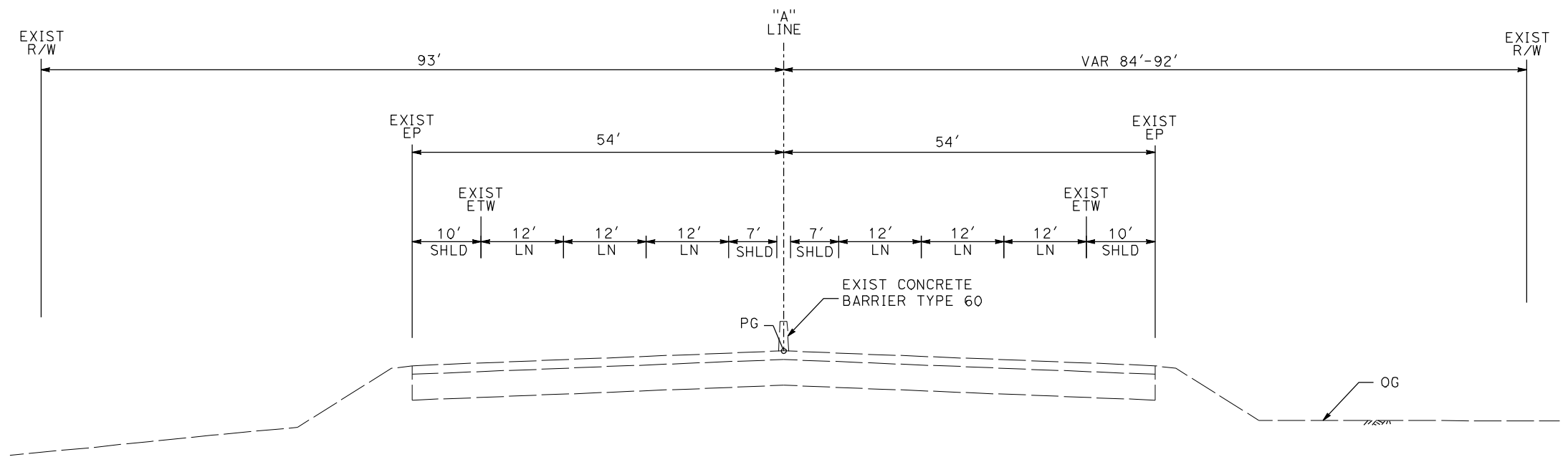
CONTRACT NO.
HSR06-007

DRAWING NO.
T-1

SCALE
NO SCALE

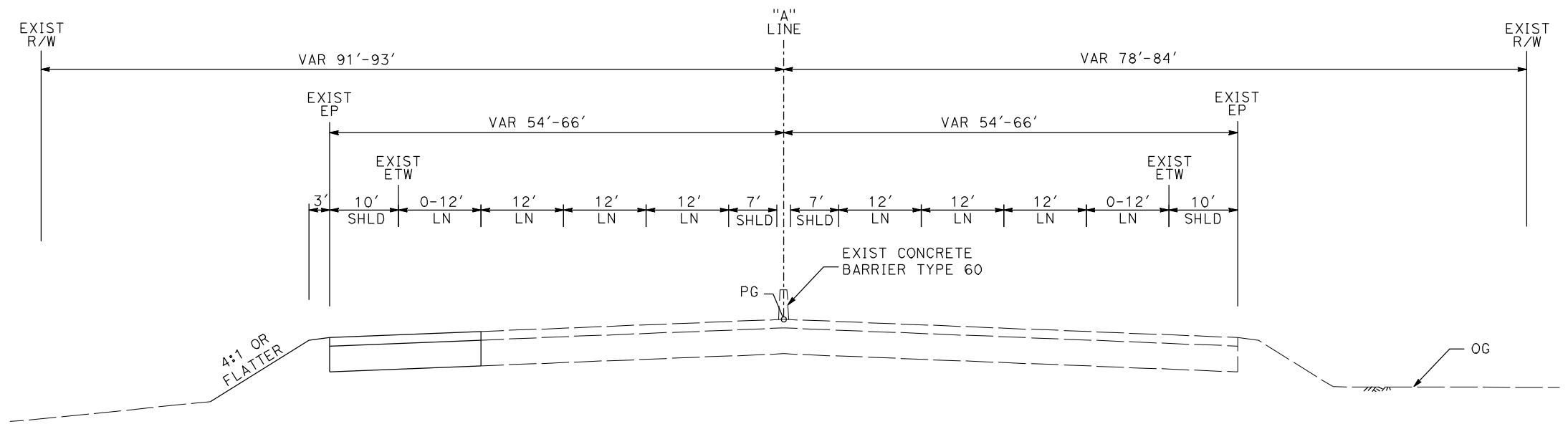
SHEET NO.

DATE PLOTTED: 03/26/APP-2011



SB 117+00 TO 117+40

NB 117+00 TO 119+55



SB 117+40 TO 123+40

NB 119+55 TO 123+15

ROUTE 99

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

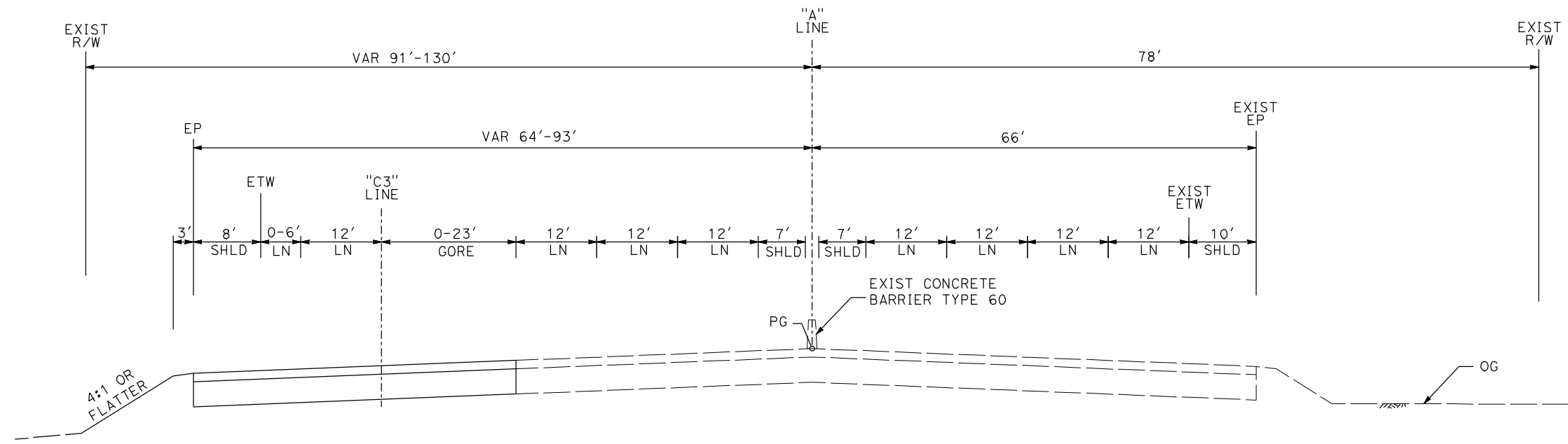
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS

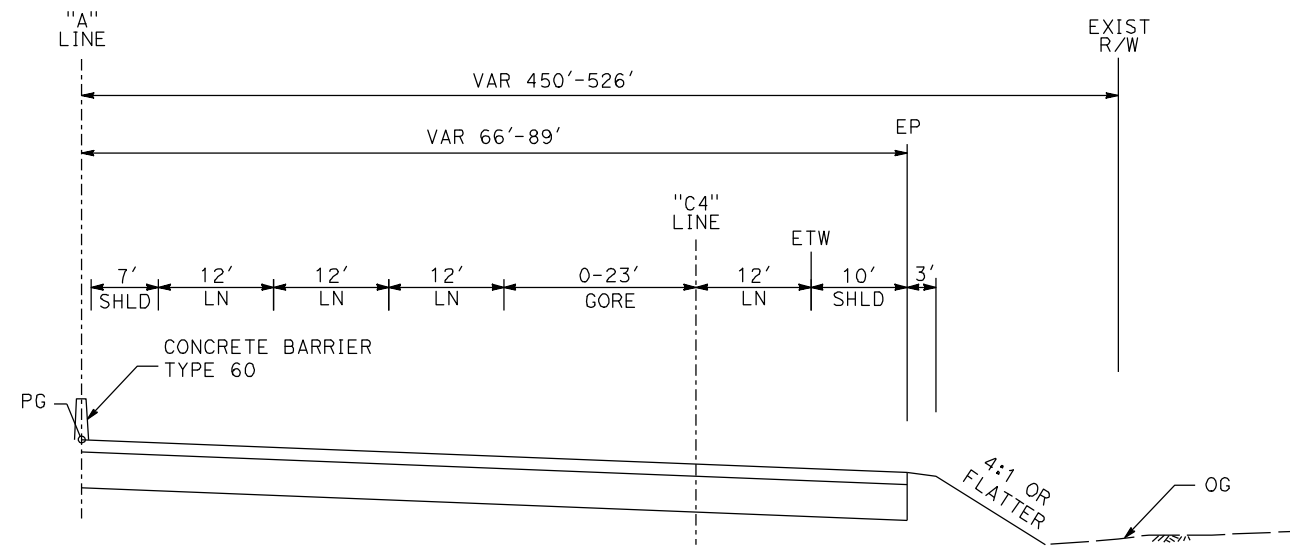
CONTRACT NO.
HSR06-007
DRAWING NO.
X-1
SCALE
NO SCALE
SHEET NO.

DATE PLOTTED => 26-APR-2011



SB 123+40 TO 129+27

NB 123+15 TO 130+18



NB 130+18 TO 132+89

ROUTE 99

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

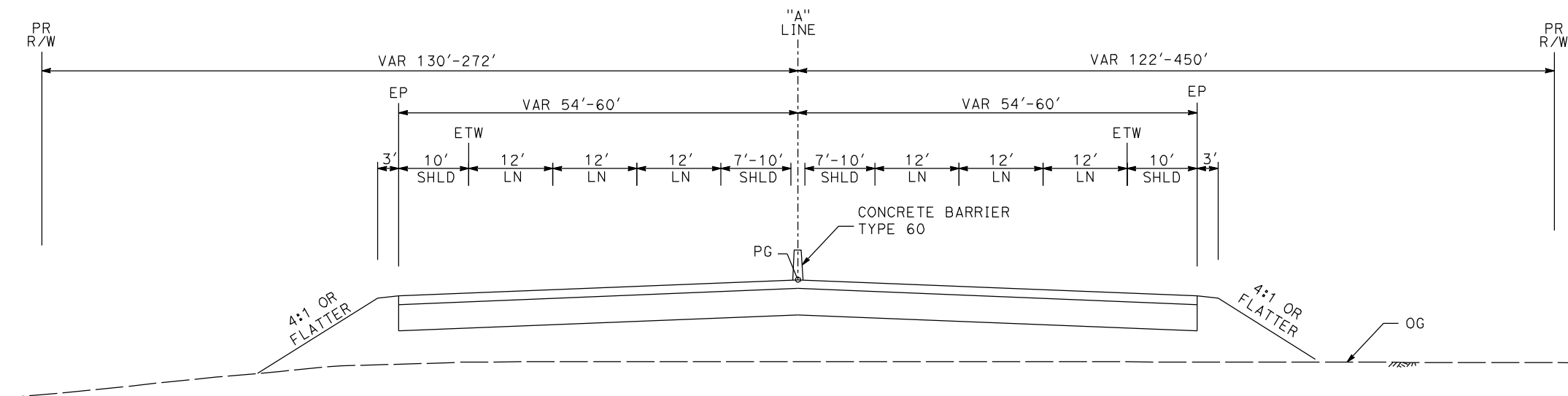
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

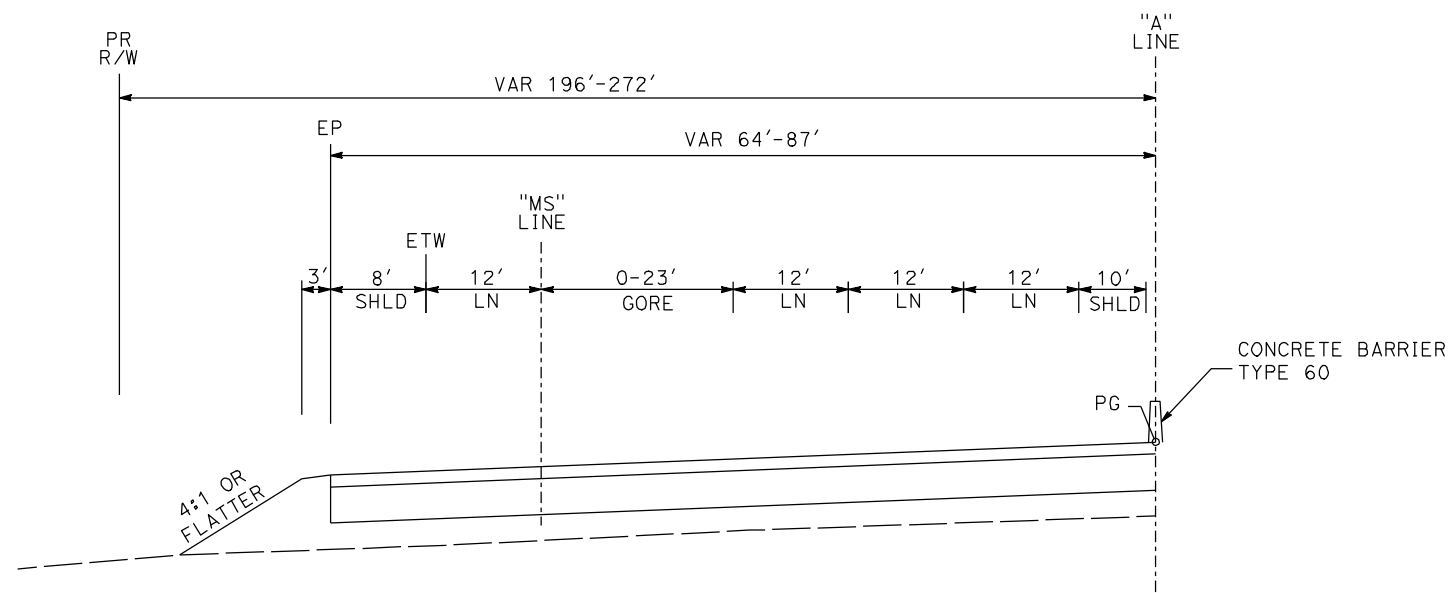
CONTRACT NO.
HSR06-007
DRAWING NO.
X-2
SCALE
NO SCALE
SHEET NO.

DATE PLOTTED => 26-APR-2011



SB 129+27 TO 146+07

NB 132+89 TO 152+18



SB 146+07 TO 148+79

ROUTE 99

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

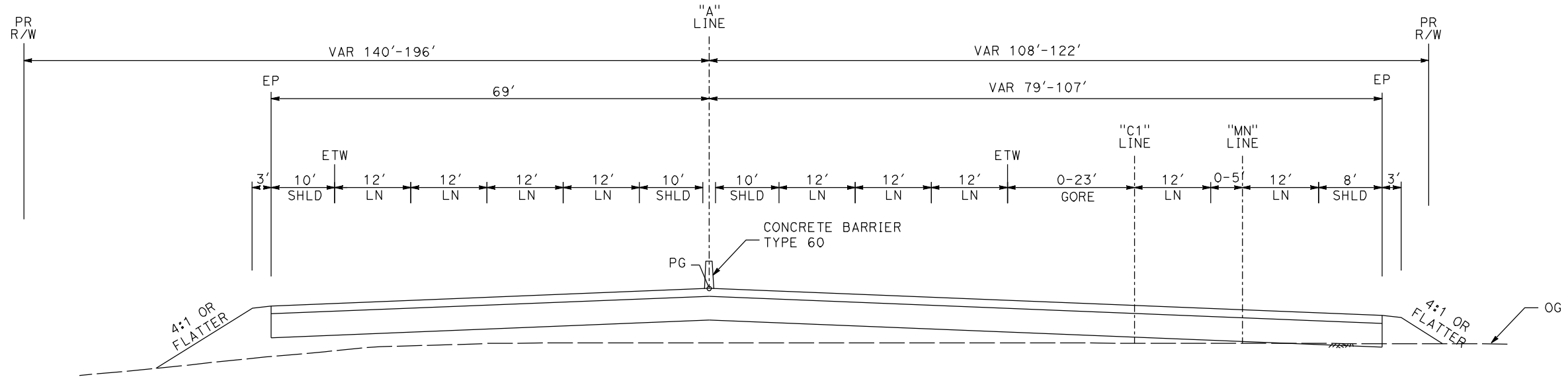
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS

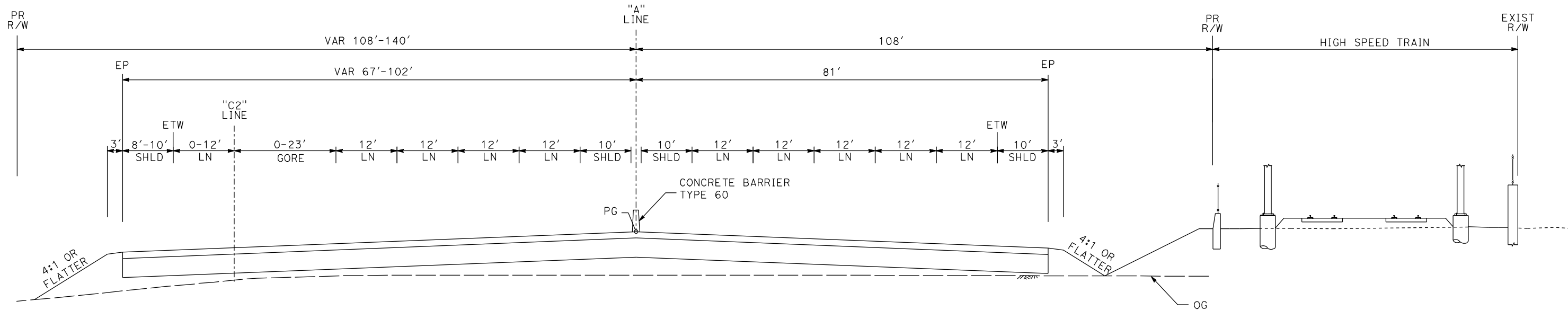
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HSR06-007
DRAWING NO.
X-3
SCALE
NO SCALE
SHEET NO.

DATE PLOTTED => 26-APR-2011



SB 148+79 TO 157+19

NB 152+18 TO 158+14



SB 157+19 TO 161+30

NB 152+18 TO 158+14

ROUTE 99

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

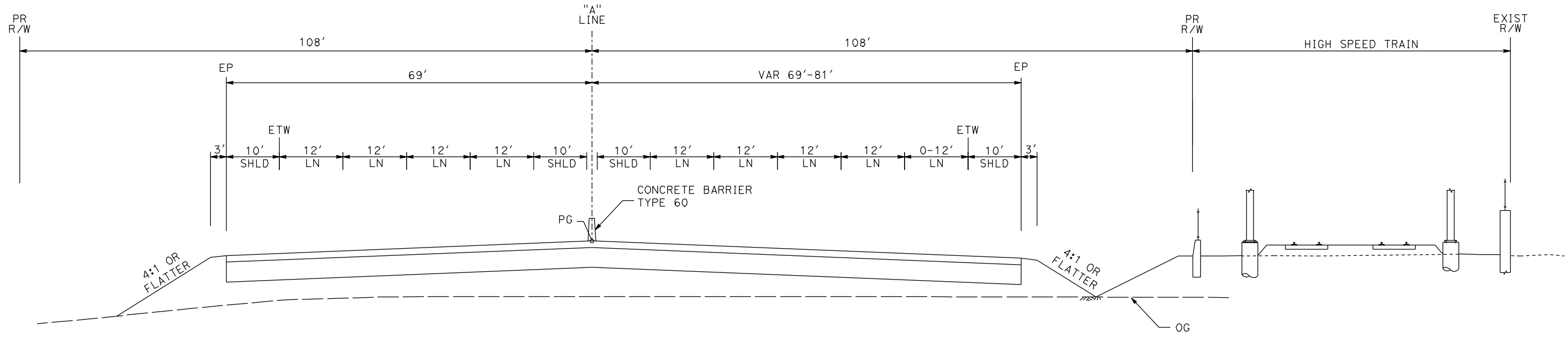
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

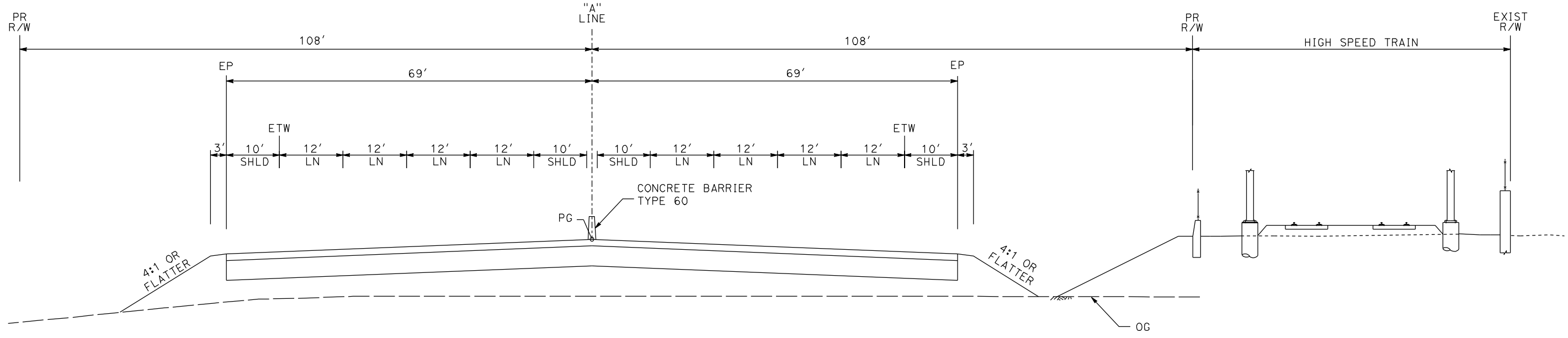
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HSR06-007
DRAWING NO.
X-4
SCALE
NO SCALE
SHEET NO.

DATE PLOTTED => 26-APR-2011



SB 161+30 TO 164+14

NB 158+14 TO 164+14



SB 164+14 TO 220+00

NB 164+14 TO 220+80

ROUTE 99

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

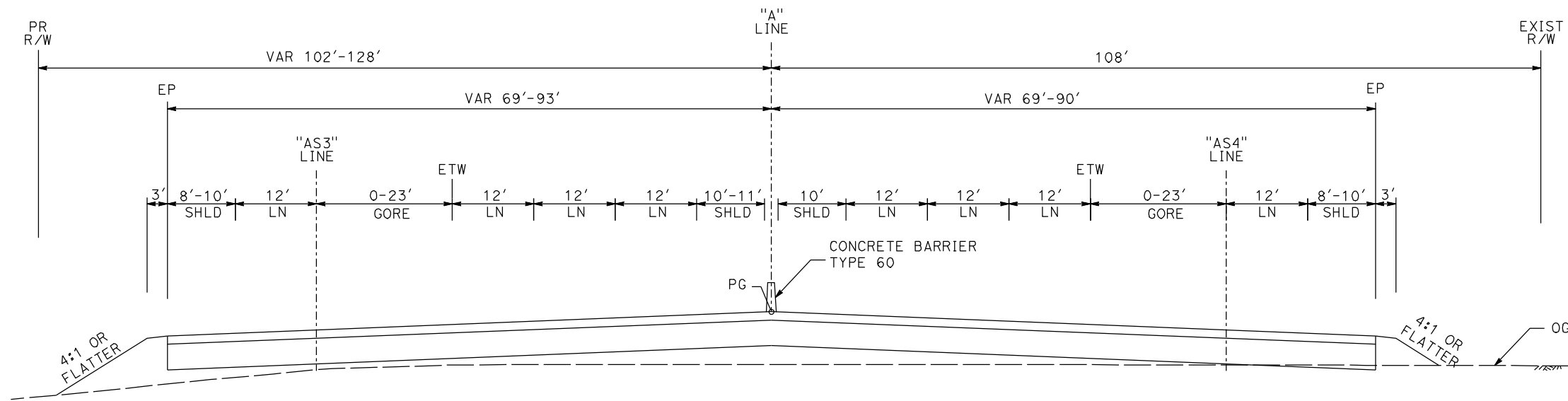
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

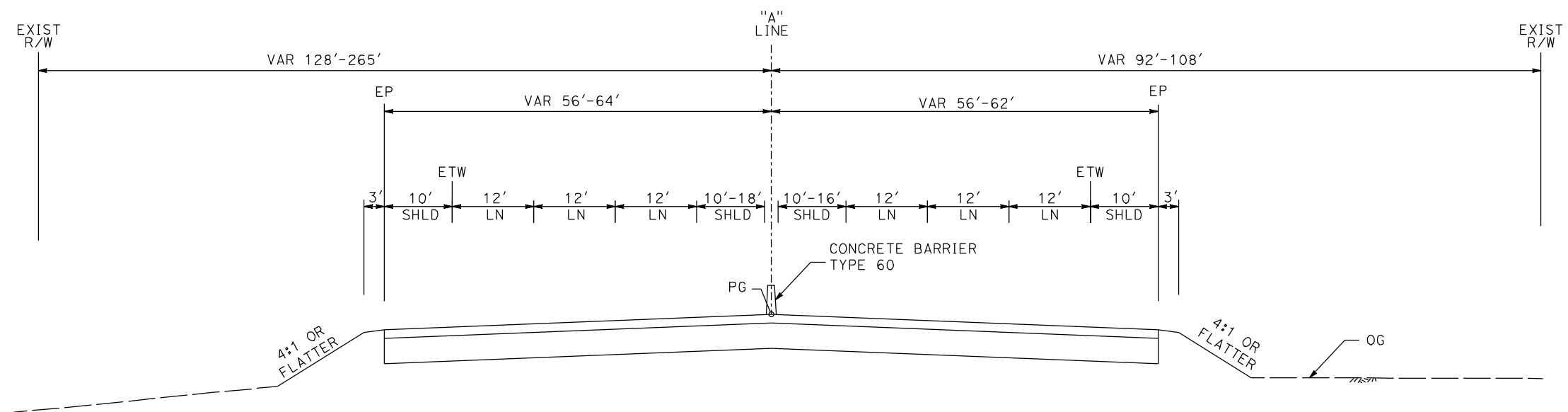
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HSR06-007
DRAWING NO.
X-5
SCALE
NO SCALE
SHEET NO.

DATE PLOTTED => 26-APR-2011



SB 220+00 TO 226+80

NB 220+80 TO 223+50



SB 226+80 TO 239+45

NB 223+50 TO 239+45

ROUTE 99

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

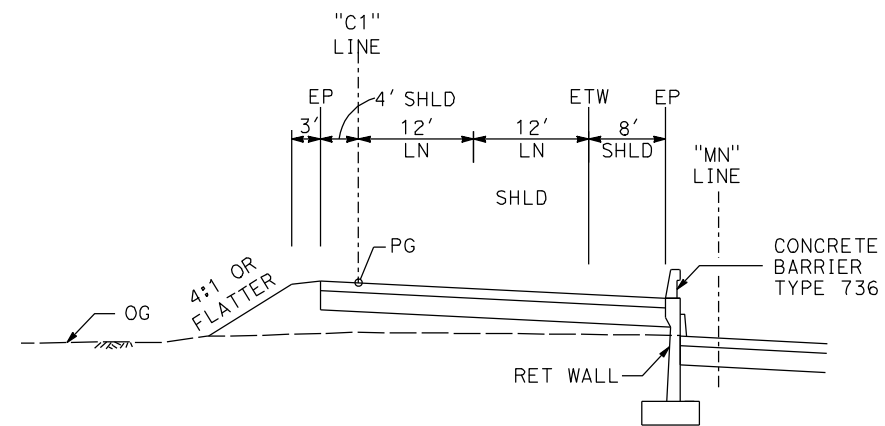
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CONSTRUCTION**



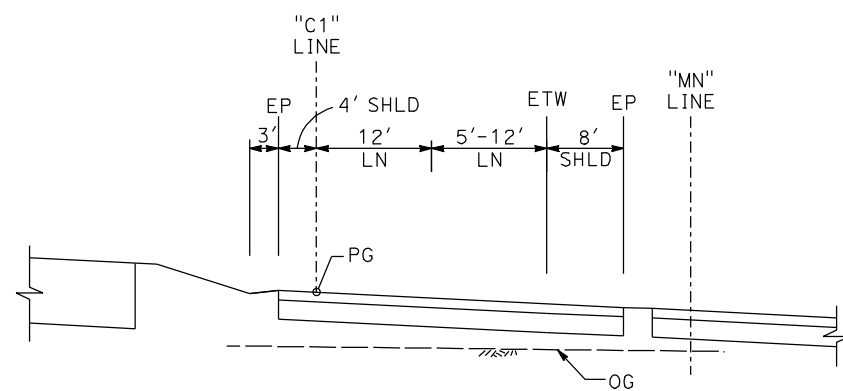
**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.	HSR06-007
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SCALE	NO SCALE
SHEET NO.	

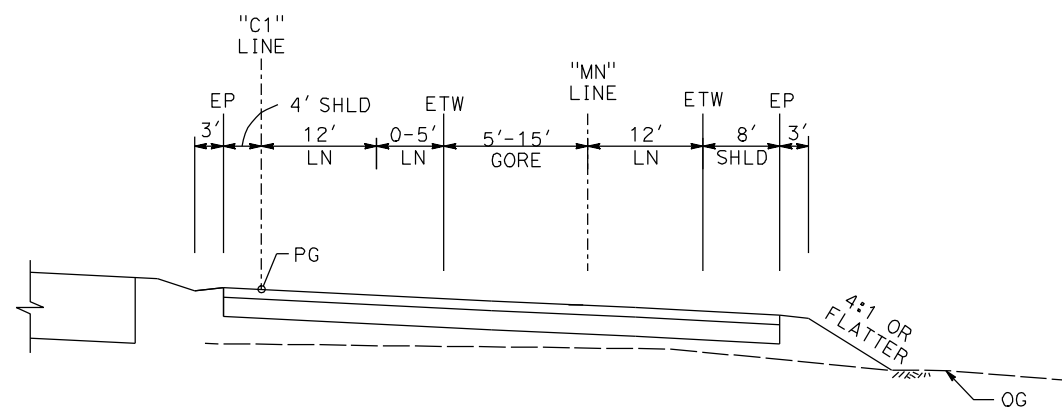
DATE PLOTTED => 26-APR-2011



142+10 TO 1147+31

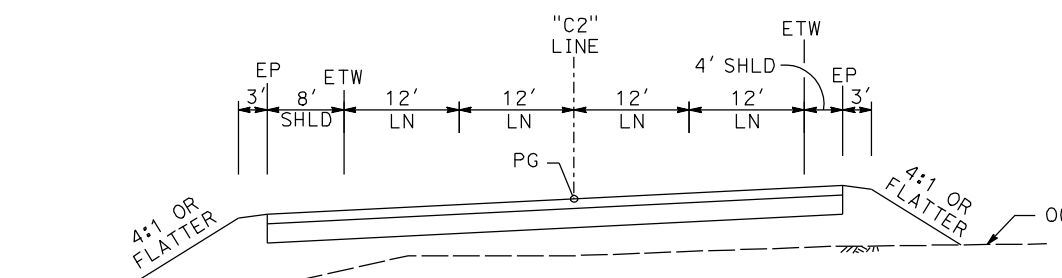


147+31 TO 149+07

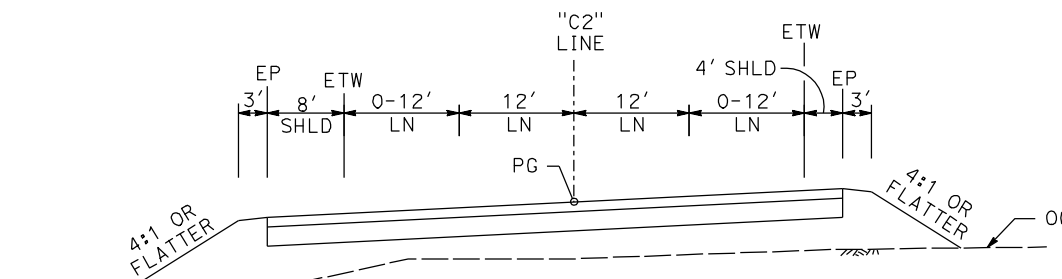


149+07 TO 152+15

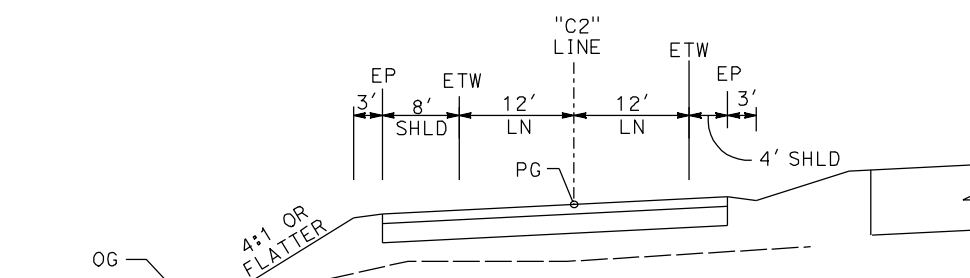
**C1 LINE
(NB ON RAMP AT CLINTON AVE)**



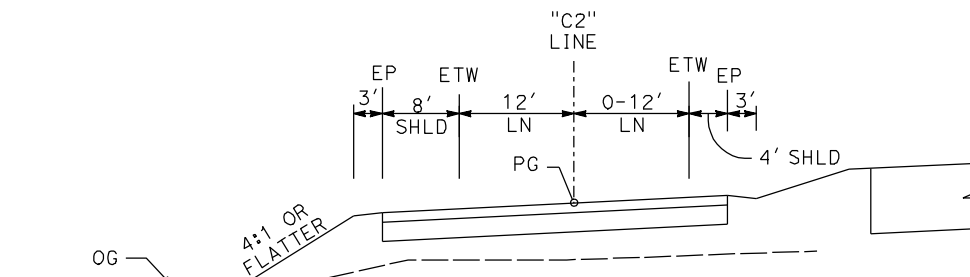
144+66 TO 149+68



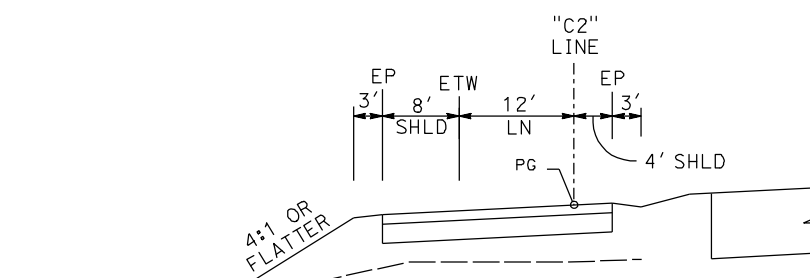
149+68 TO 150+81



150+81 TO 154+32



154+32 TO 155+52



154+32 TO 155+52

**C2 LINE
(SB OFF RAMP AT CLINTON AVE)**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

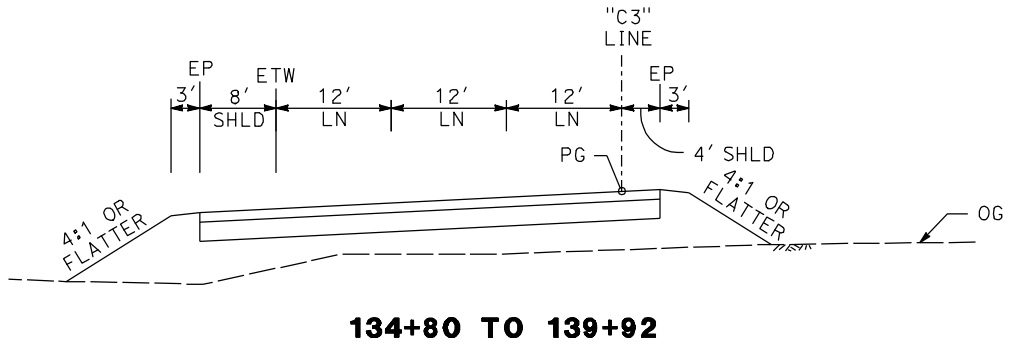
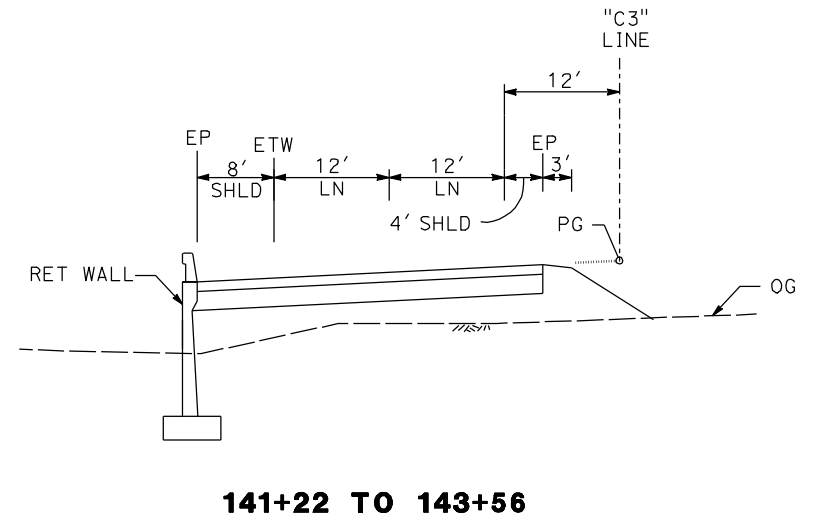
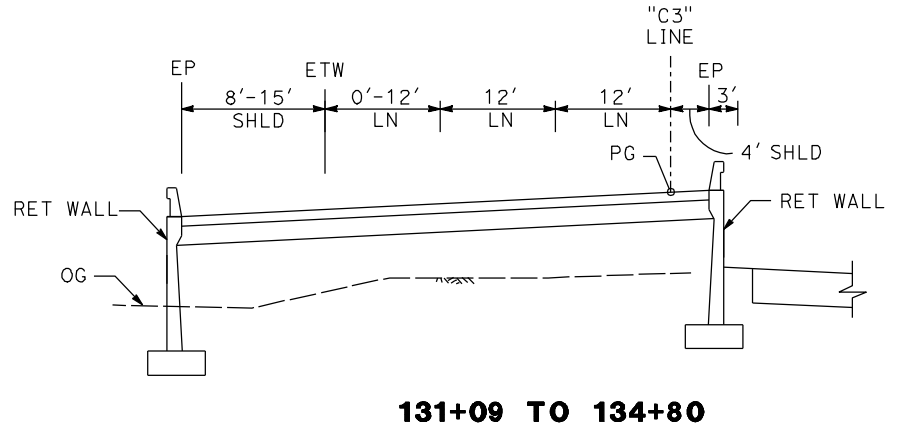
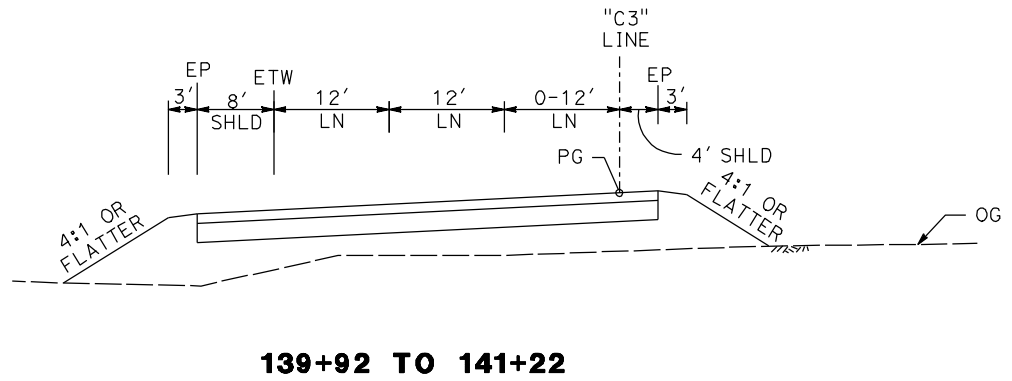
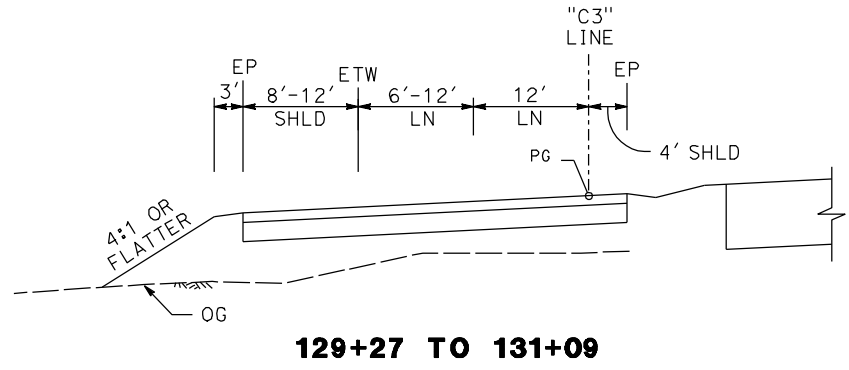
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-7
SCALE
NO SCALE
SHEET NO.

DATE PLOTTED: 23-APR-2011



C3 LINE
(SB ON RAMP AT CLINTON AVE)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

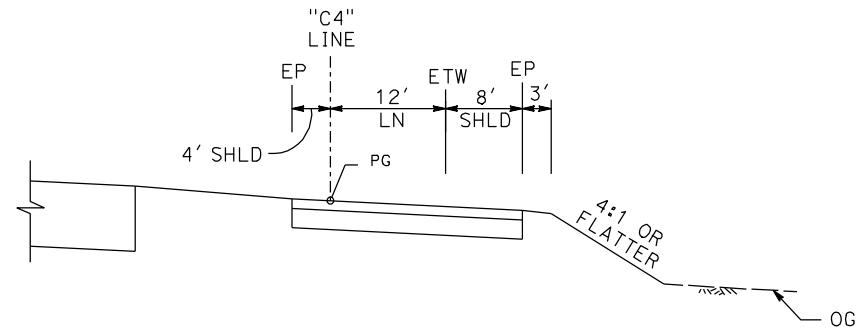
NOT FOR
CONSTRUCTION



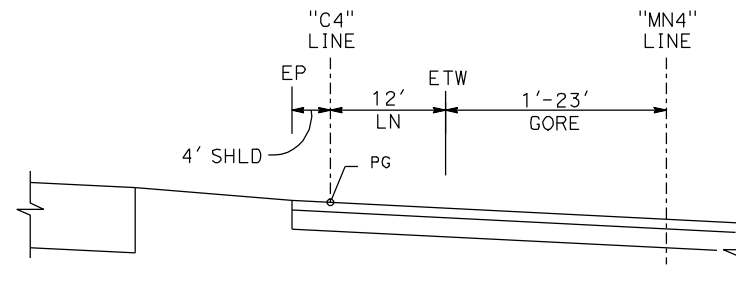
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS

CONTRACT NO.	HSR06-007
DRAWING NO.	X-8
SCALE	NO SCALE
SHEET NO.	

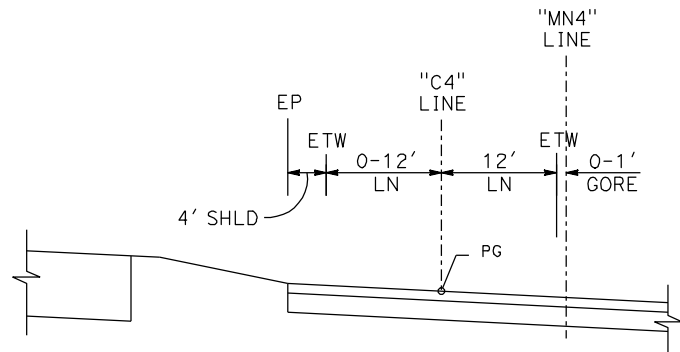
DATE PLOTTED => 26-APR-2011



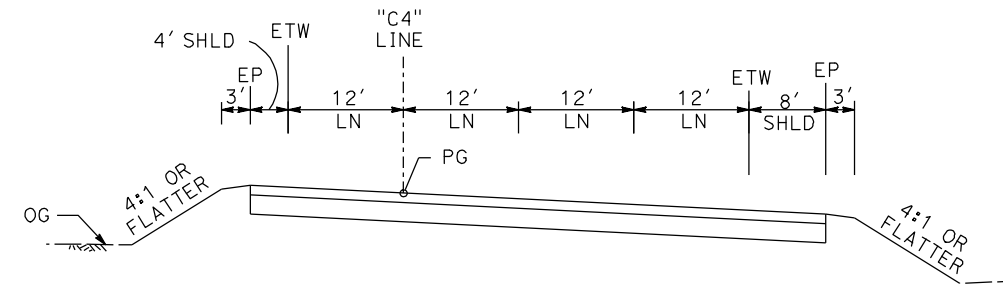
132+89 TO 133+20



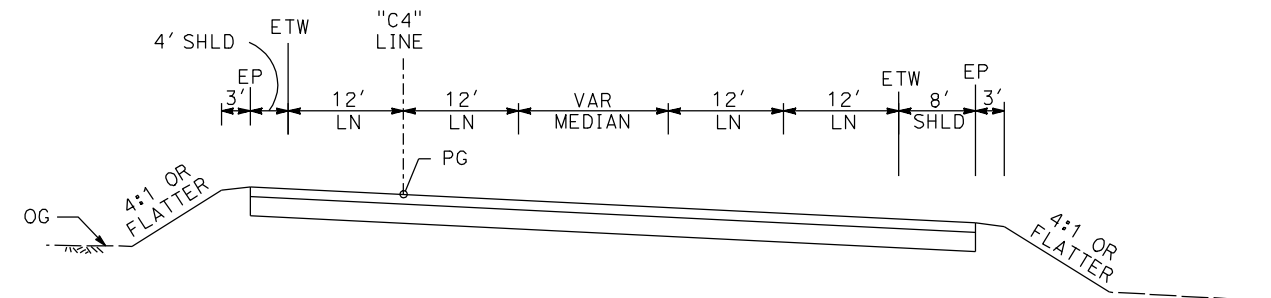
133+20 TO 134+72



134+72 TO 135+92



135+92 TO 139+95



139+95 TO 141+12

**C4 LINE
(NB OFF RAMP AT CLINTON AVE)**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

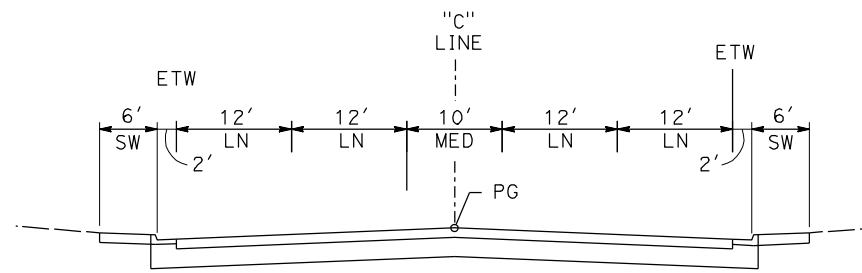
**NOT FOR
CONSTRUCTION**



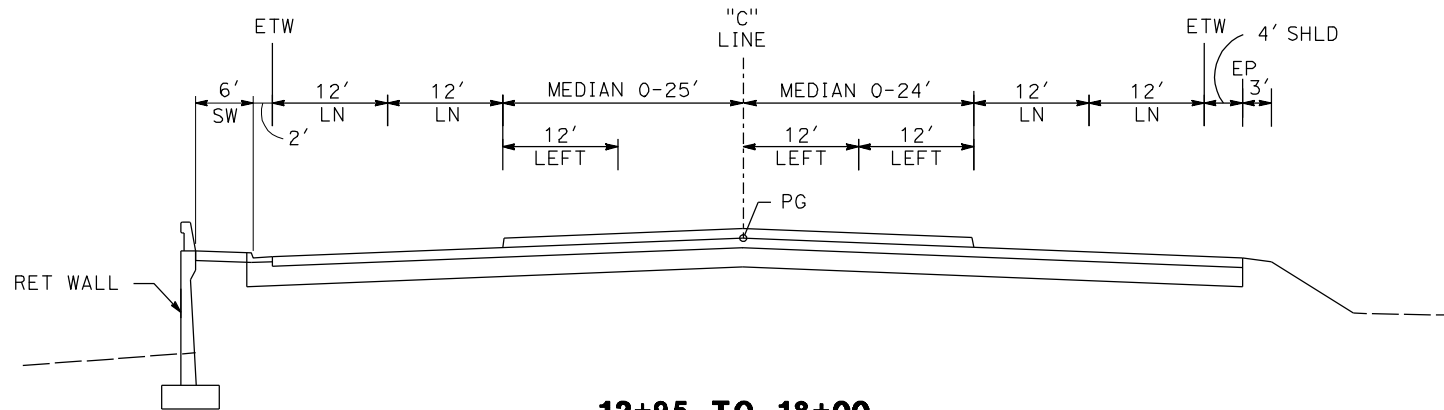
**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-9
SCALE
NO SCALE
SHEET NO.

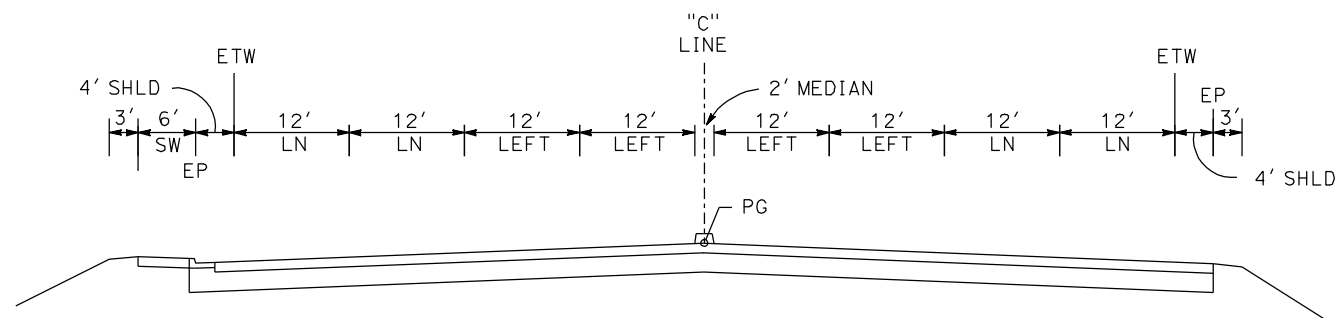
DATE PLOTTED: 23-APR-2011



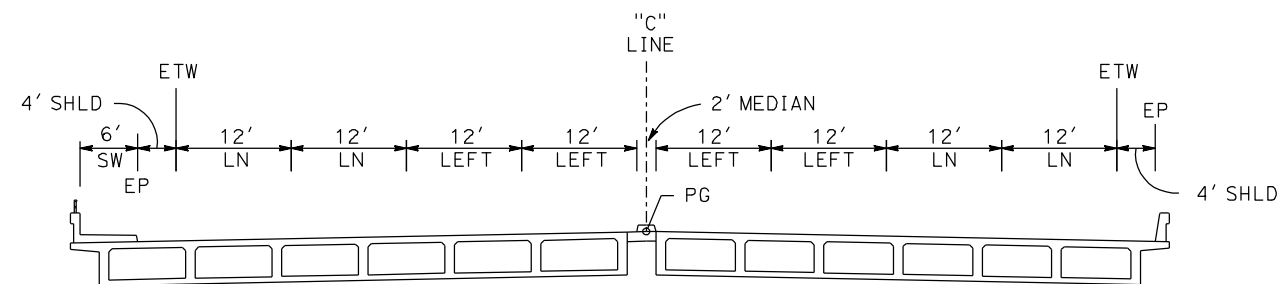
10+00 TO 12+95



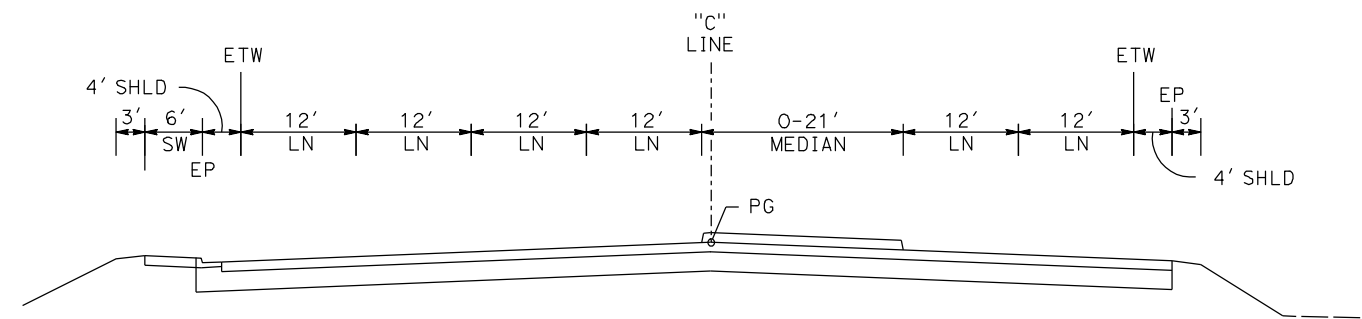
12+95 TO 18+00



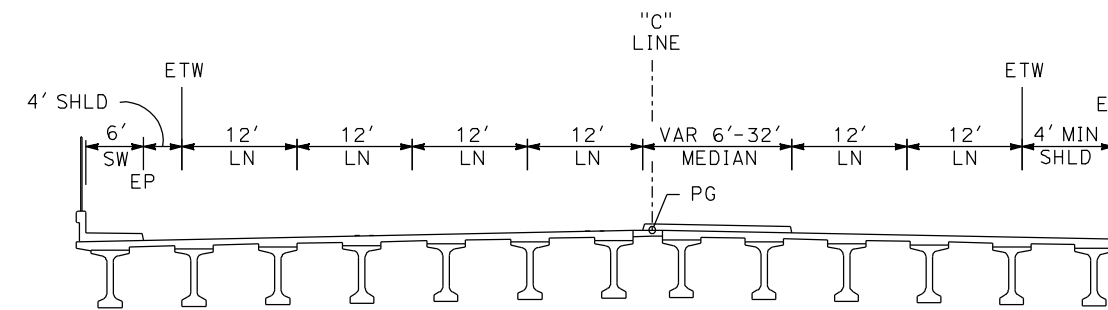
18+00 TO 19+66



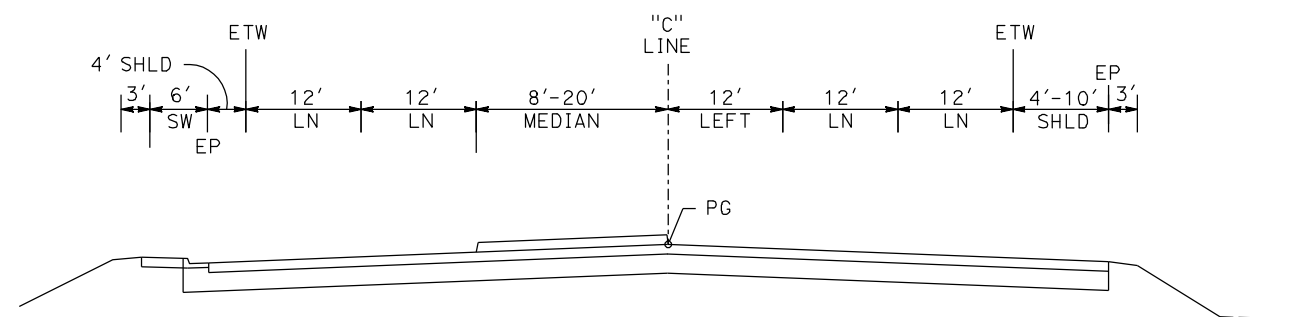
**19+66 TO 22+49
CLINTON AVE OC**



22+49 TO 24+08



**24+08 TO 27+98
FREPNO YARD OH**



27+98 TO 34+18

CLINTON AVE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

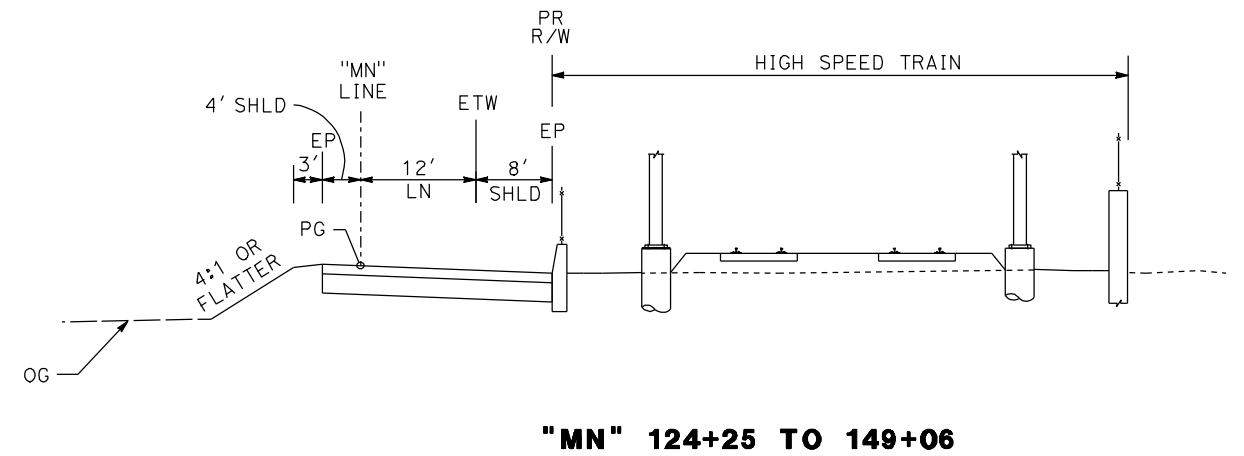
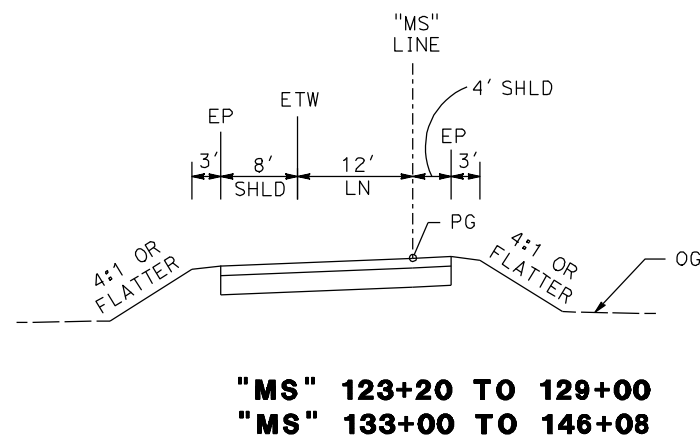
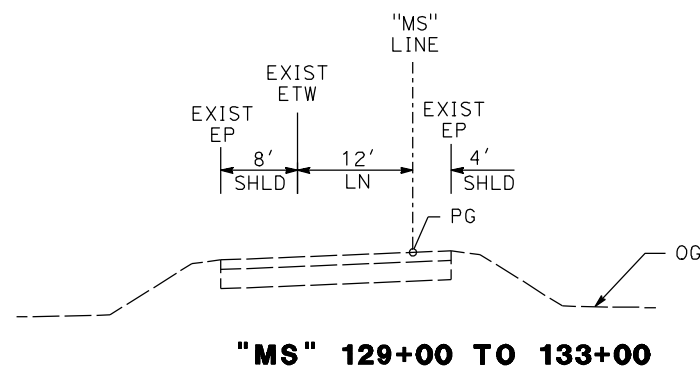
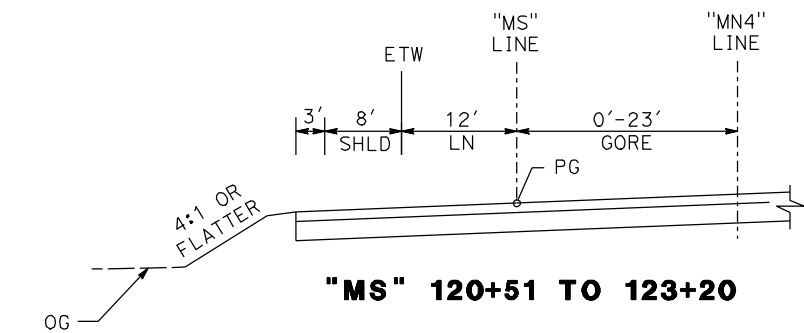
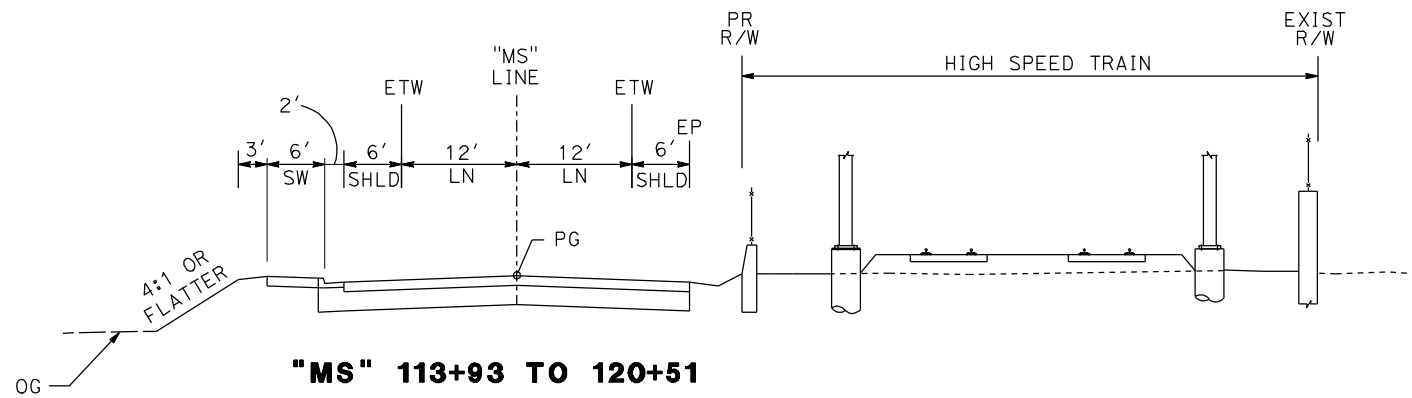
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-10
SCALE
NO SCALE
SHEET NO.

DATE PLOTTED: 23-APR-2011



GOLDEN STATE BLVD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
L. ROS
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

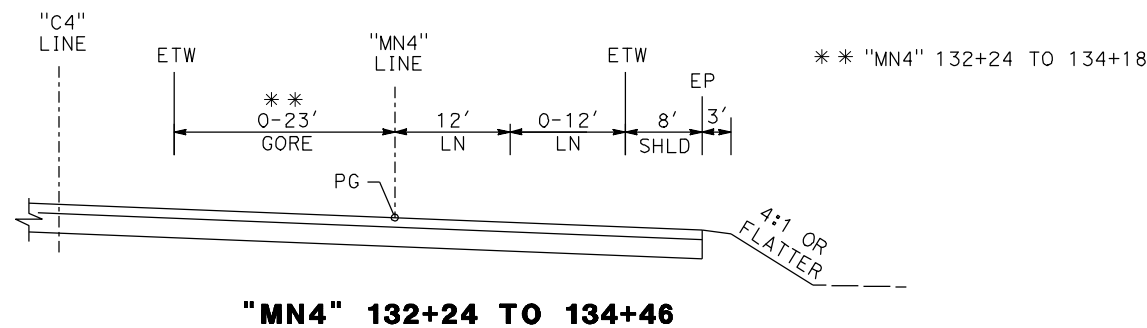
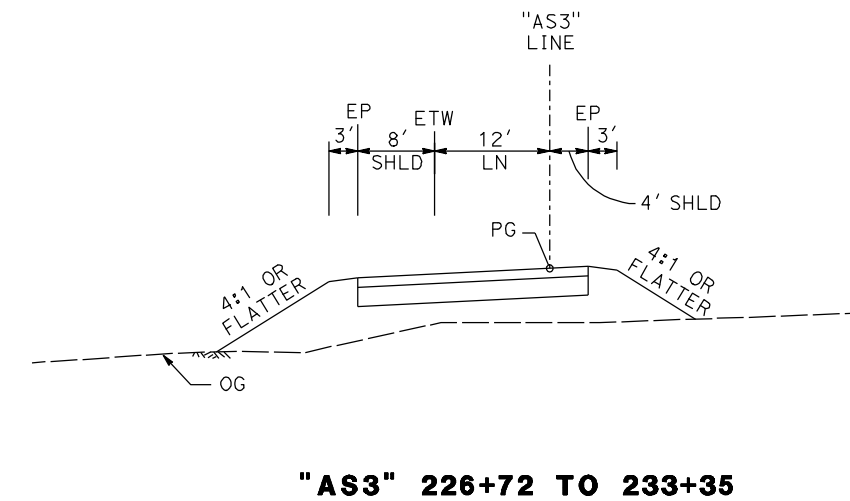
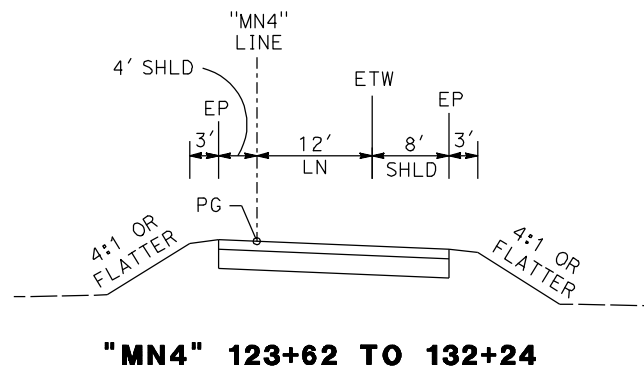
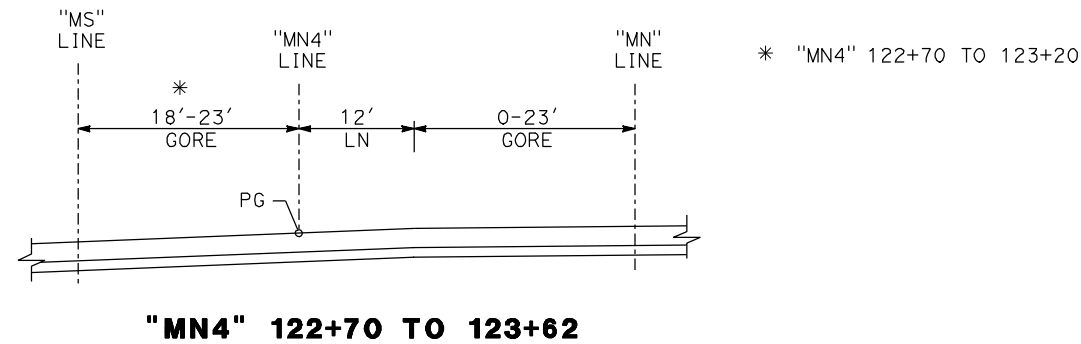
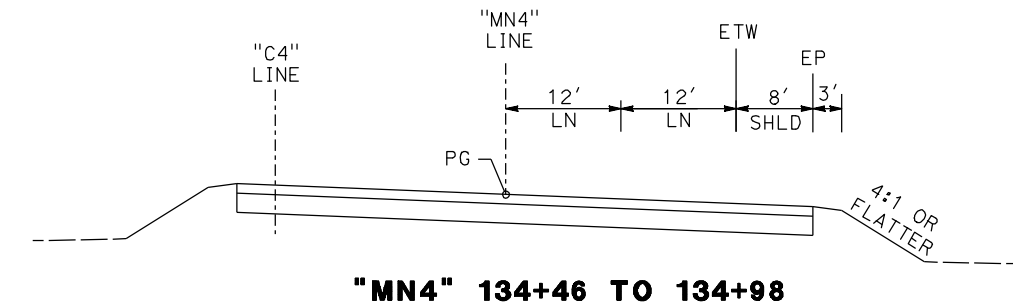
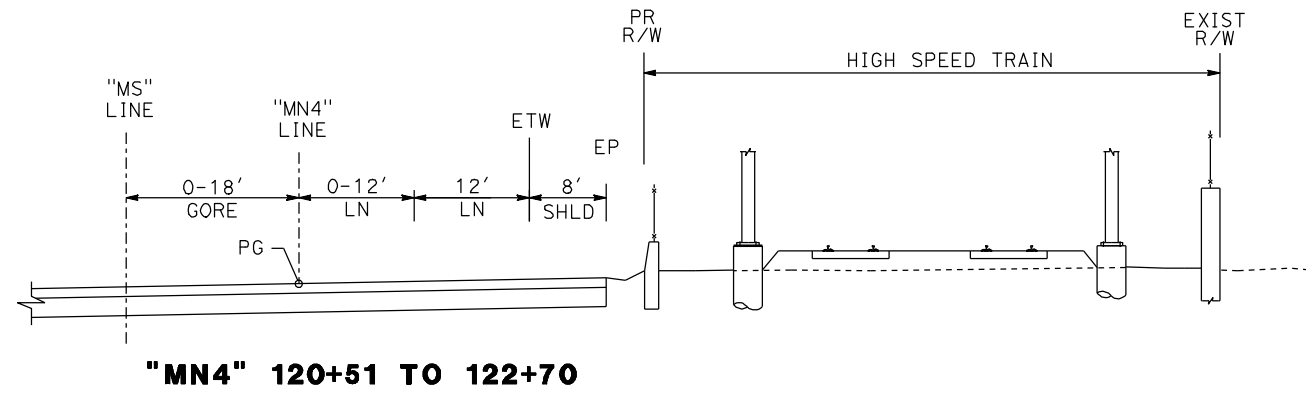
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR06-007
 DRAWING NO.
X-11
 SCALE
NO SCALE
 SHEET NO.

DATE PLOTTED => 26-APR-2011



**MN4 LINE
(GOLDEN STATE BLVD NB OFF RAMP AT)**

**AS3 LINE
(SB ON RAMP AT ASHLAN AVE)**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

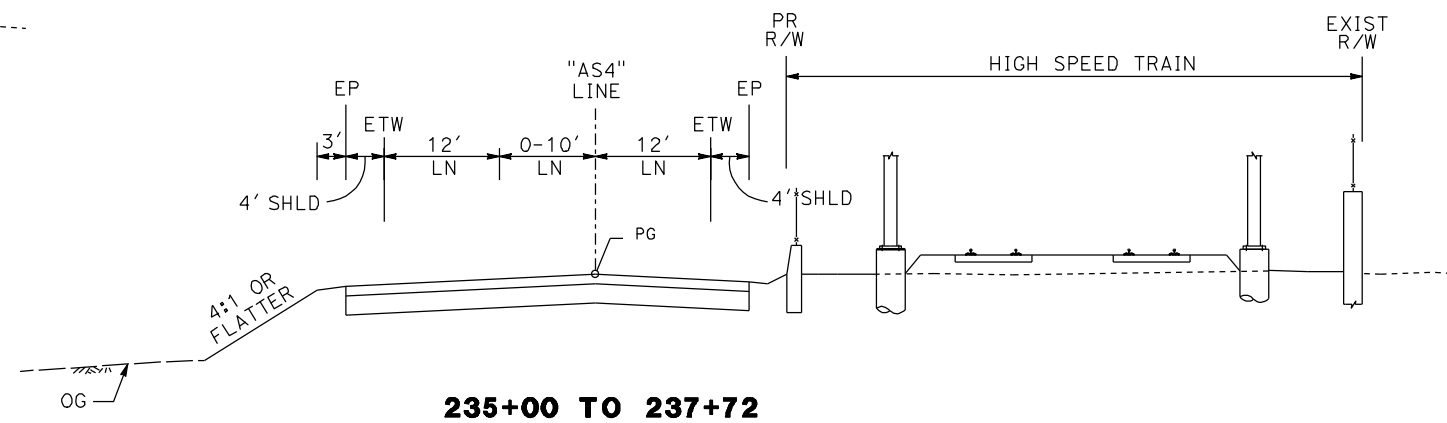
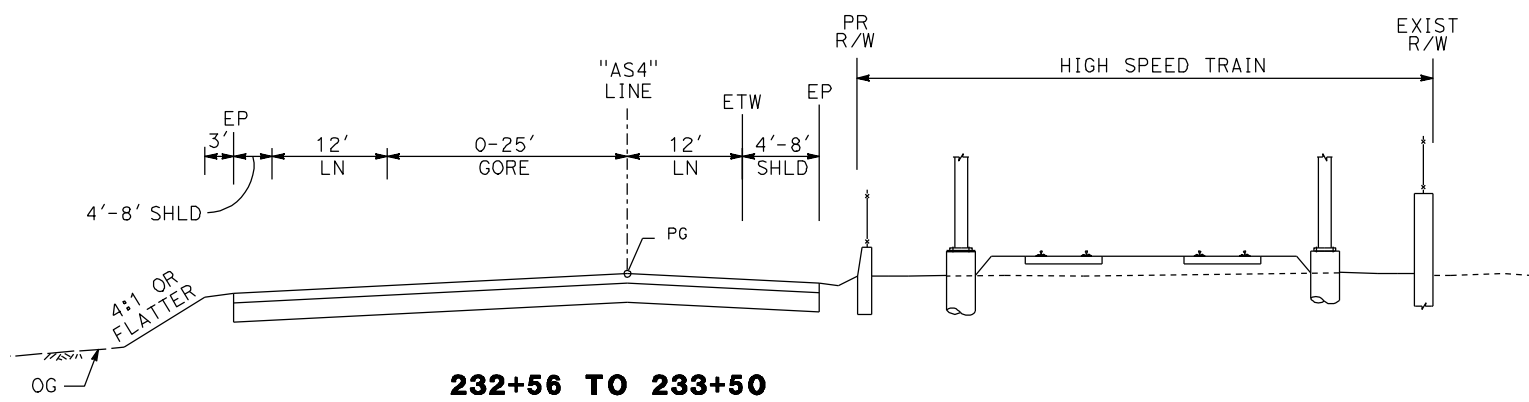
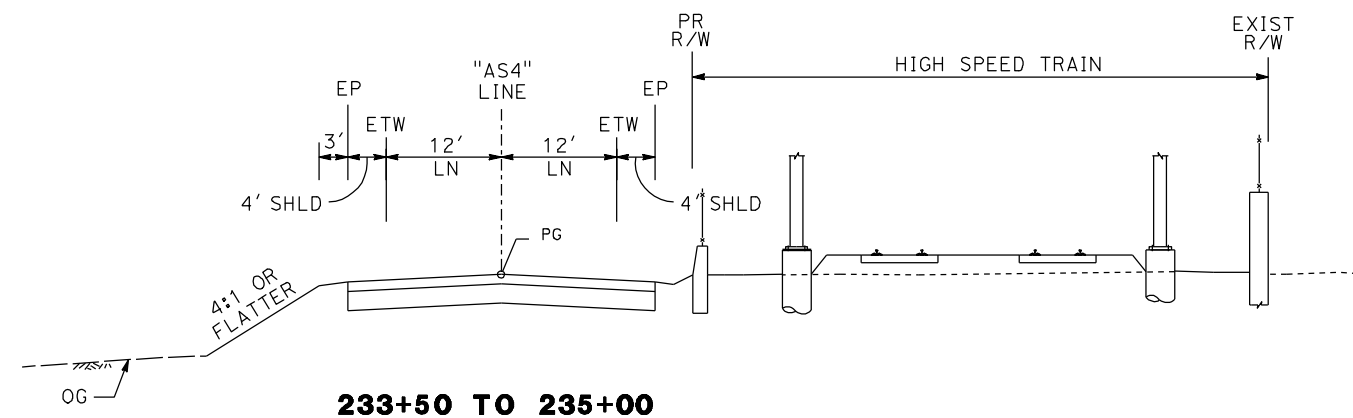
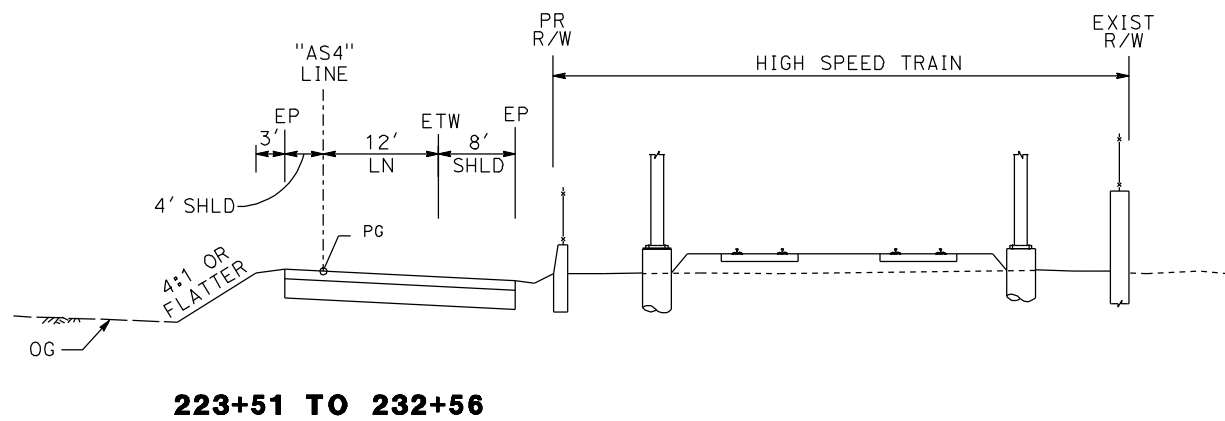
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-12
SCALE
NO SCALE
SHEET NO.

DATE PLOTTED: 03/26/11 09:26:44 AM



**AS4 LINE
(NB OFF RAMP AT ASHLAN AVE)**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

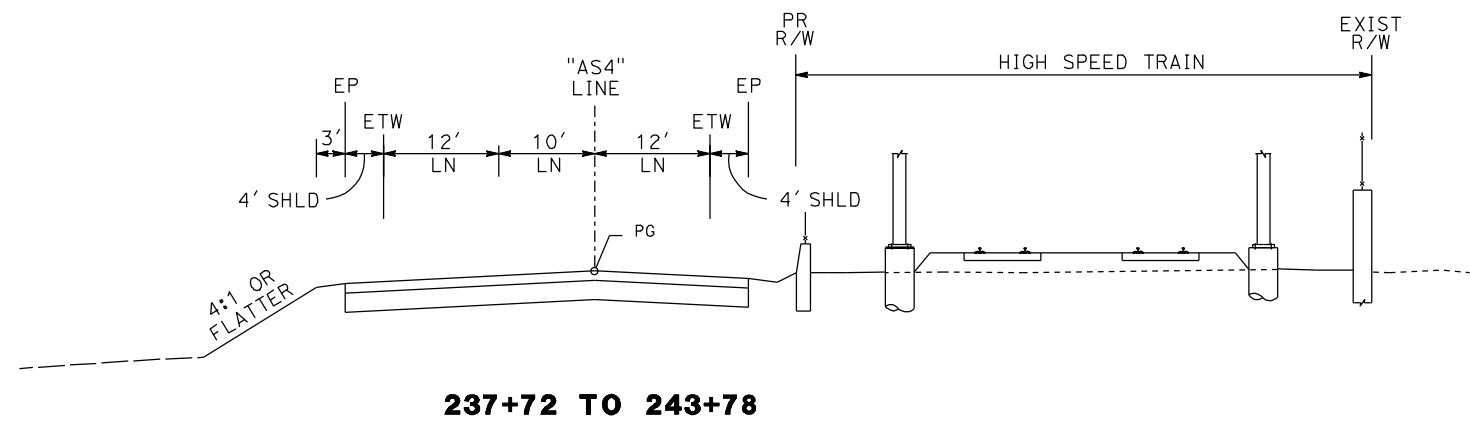
**NOT FOR
CONSTRUCTION**



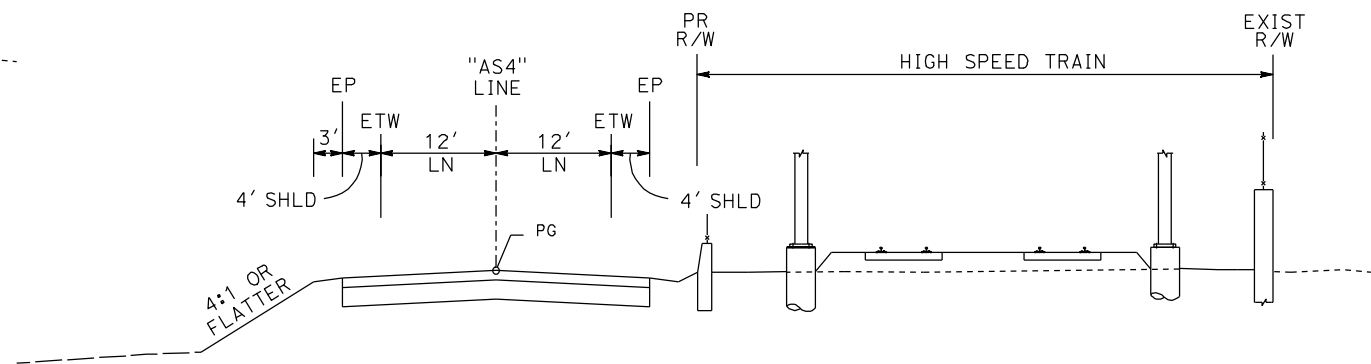
**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-13
SCALE
NO SCALE
SHEET NO.

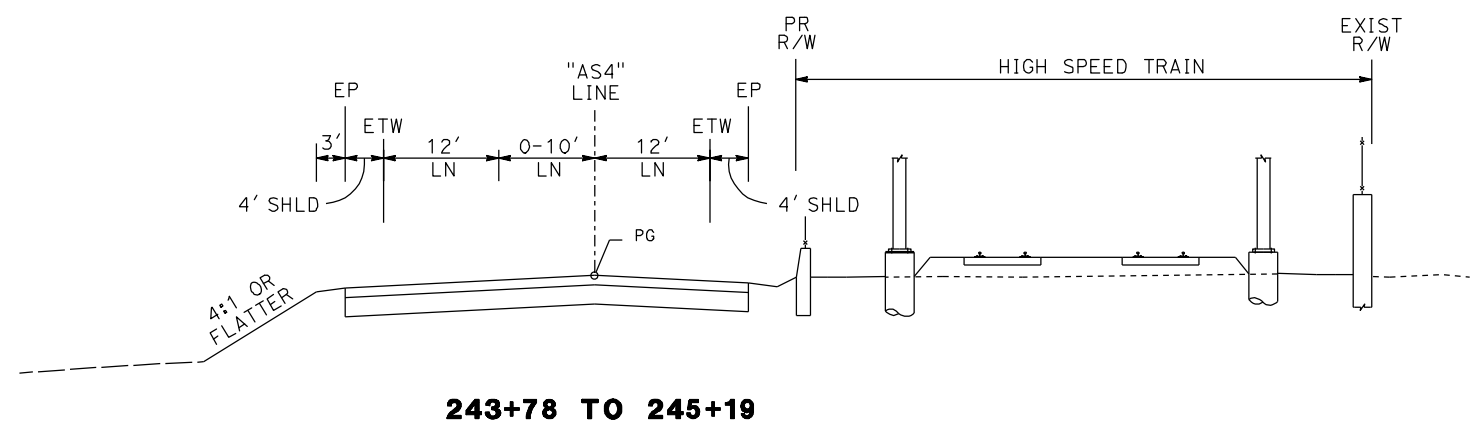
DATE PLOTTED => 26-APR-2011



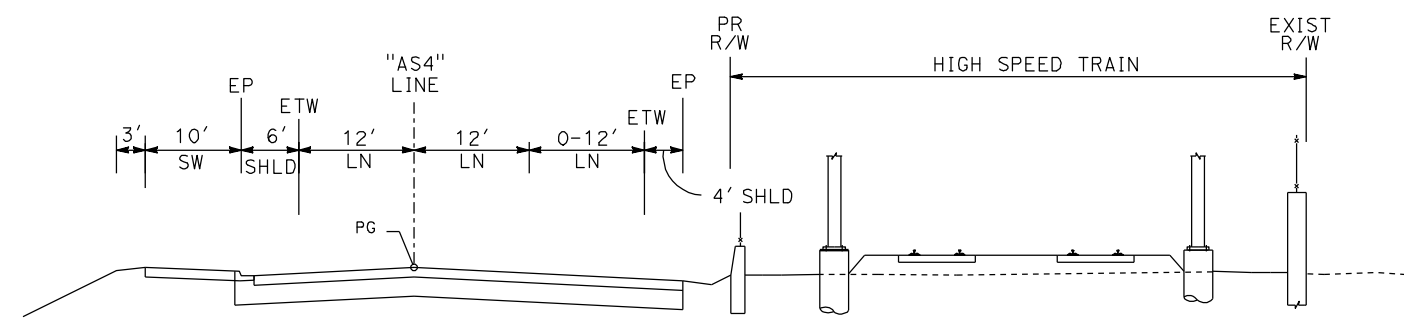
237+72 TO 243+78



245+19 TO 249+52



243+78 TO 245+19



245+19 TO 249+52

**AS4 LINE
(NB OFF RAMP AT ASHLAN AVE)**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

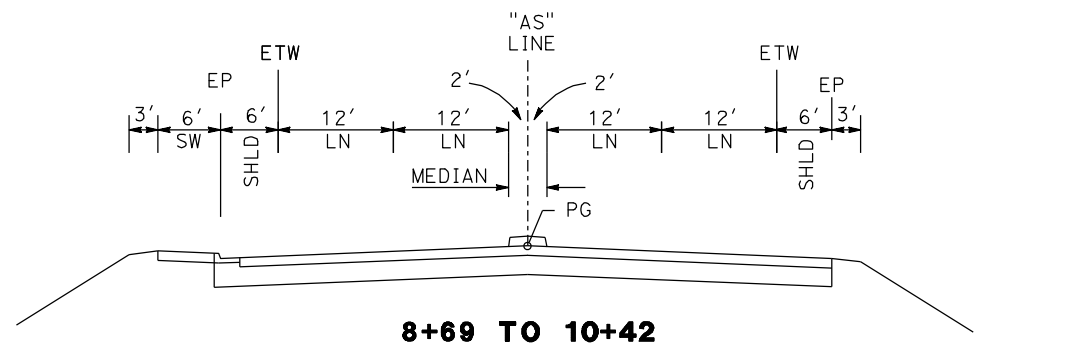
**NOT FOR
CONSTRUCTION**



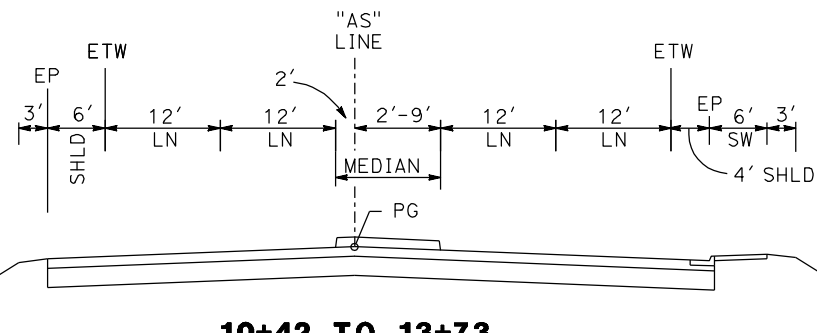
**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-14
SCALE
NO SCALE
SHEET NO.

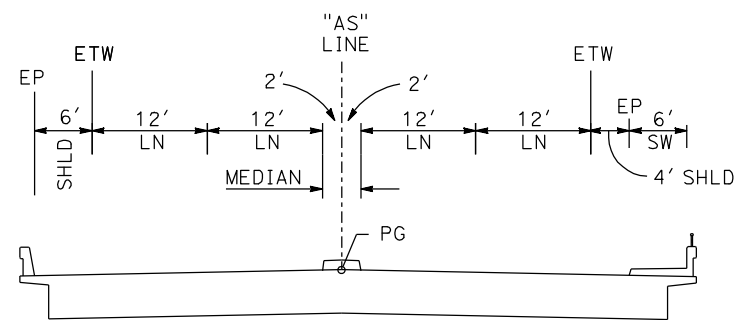
DATE PLOTTED => 26-APR-2011



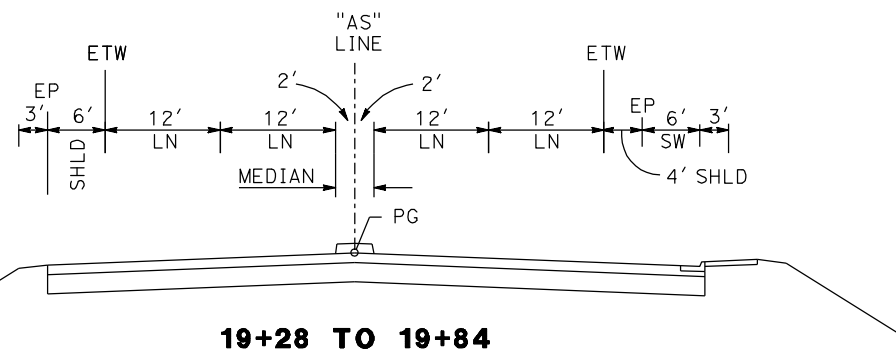
8+69 TO 10+42



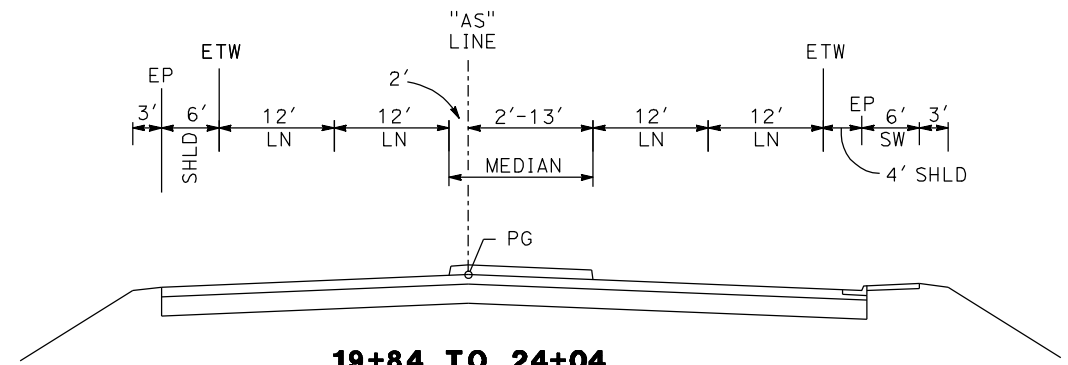
10+42 TO 13+73



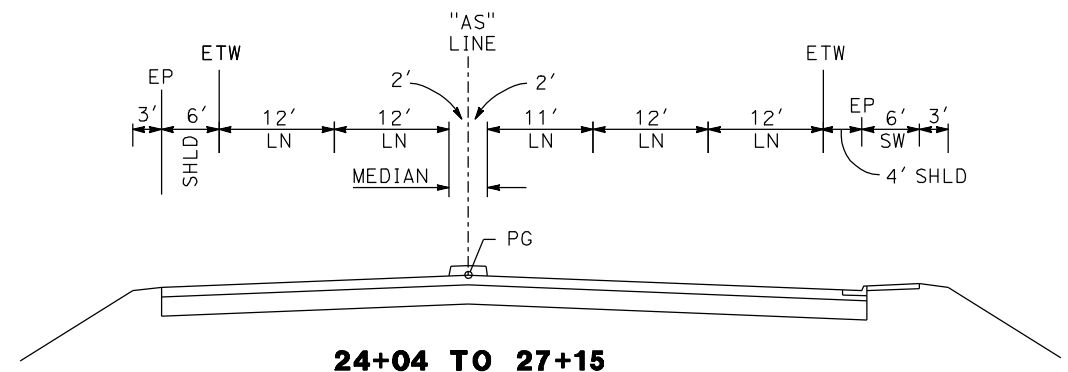
13+73 TO 19+28



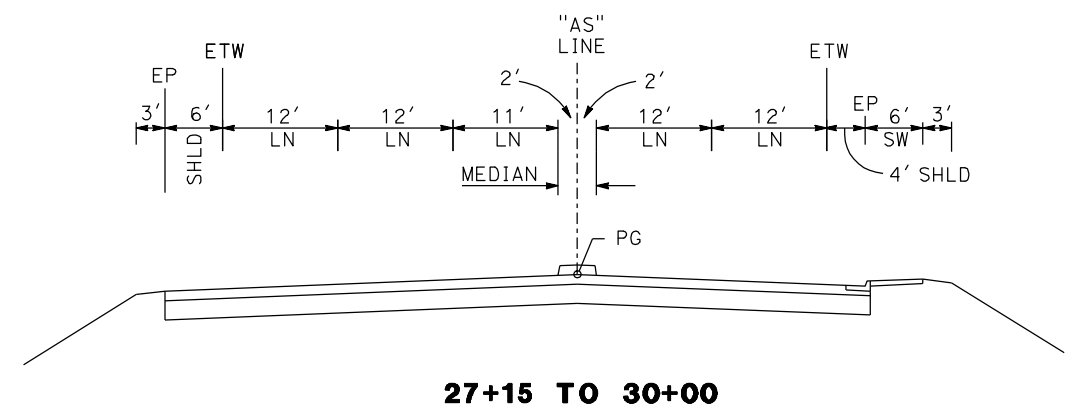
19+28 TO 19+84



19+84 TO 24+04



24+04 TO 27+15



27+15 TO 30+00

ASHLAN AVE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

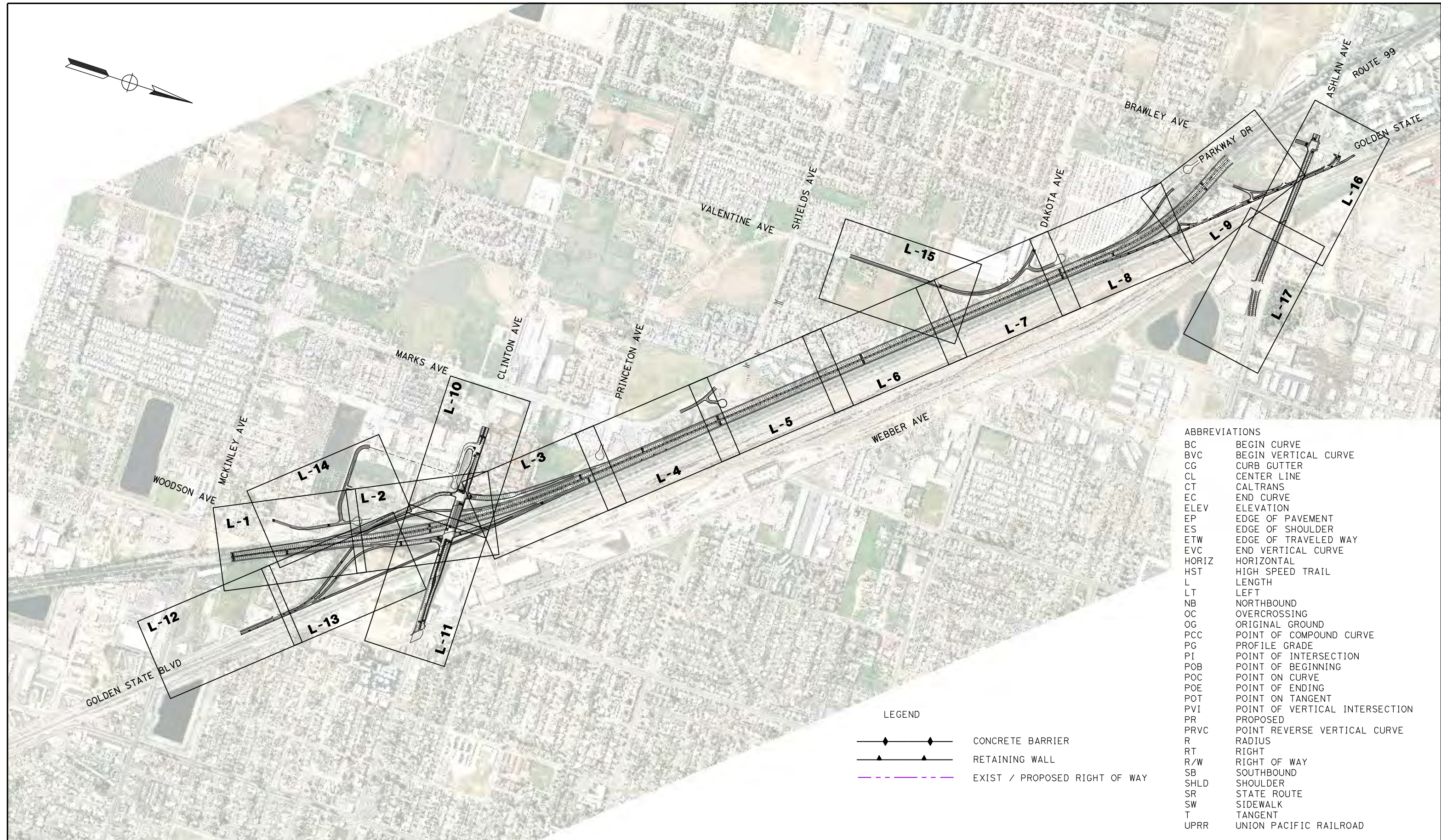
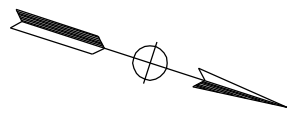
CH2MHILL



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.	HSR06-007
DRAWING NO.	X-15
SCALE	NO SCALE
SHEET NO.	

DATE PLOTTED => 26-APR-2011



ABBREVIATIONS

BC	BEGIN CURVE
BVC	BEGIN VERTICAL CURVE
CG	CURB GUTTER
CL	CENTER LINE
CT	CALTRANS
EC	END CURVE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
ETW	EDGE OF TRAVELED WAY
EVC	END VERTICAL CURVE
HORIZ	HORIZONTAL
HST	HIGH SPEED TRAIN
L	LENGTH
LT	LEFT
NB	NORTHBOUND
OC	OVERCROSSING
OG	ORIGINAL GROUND
PCC	POINT OF COMPOUND CURVE
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
POB	POINT OF BEGINNING
POC	POINT ON CURVE
POE	POINT OF ENDING
POT	POINT ON TANGENT
PVI	POINT OF VERTICAL INTERSECTION
PR	PROPOSED
PRVC	POINT REVERSE VERTICAL CURVE
R	RADIUS
RT	RIGHT
R/W	RIGHT OF WAY
SB	SOUTHBOUND
SHLD	SHOULDER
SR	STATE ROUTE
SW	SIDEWALK
T	TANGENT
UPRR	UNION PACIFIC RAILROAD

LEGEND

	CONCRETE BARRIER
	RETAINING WALL
	EXIST / PROPOSED RIGHT OF WAY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
J. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT

MERCED TO FRESNO

ROUTE 99 RE-ALIGNMENT

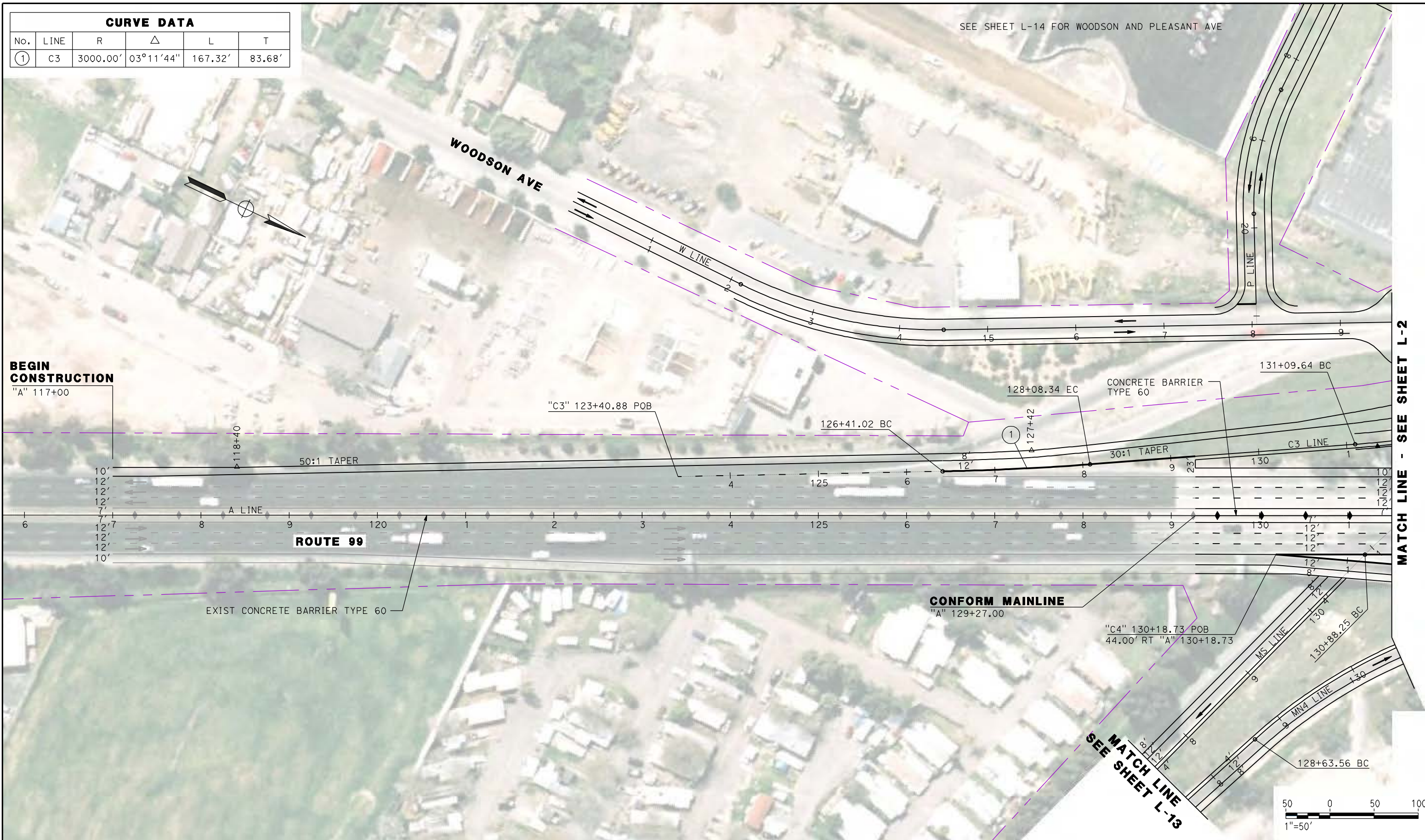
KEY MAP

CONTRACT NO.	HSR06-007
DRAWING NO.	K-1
SCALE	NO SCALE
SHEET NO.	

DATE PLOTTED: 23-APR-2011

CURVE DATA					
No.	LINE	R	Δ	L	T
①	C3	3000.00'	03°11'44"	167.32'	83.68'

SEE SHEET L-14 FOR WOODSON AND PLEASANT AVE



BEGIN CONSTRUCTION

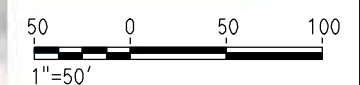
"A" 117+00

EXIST CONCRETE BARRIER TYPE 60

CONFORM MAINLINE
"A" 129+27.00

MATCH LINE
SEE SHEET L-13

MATCH LINE - SEE SHEET L-2



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

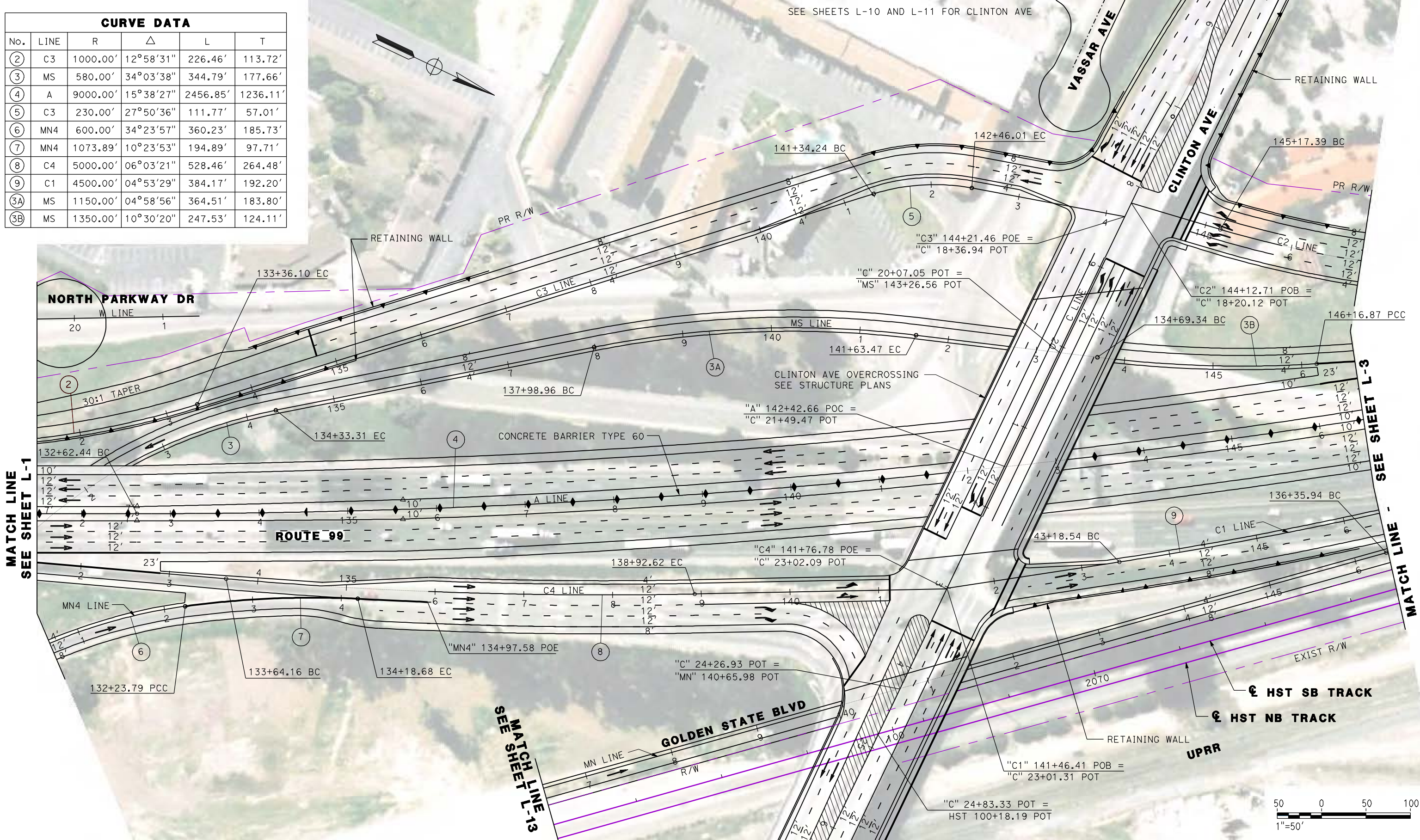


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
DRAWING NO.
L-1
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 23-APR-2011

CURVE DATA					
No.	LINE	R	Δ	L	T
②	C3	1000.00'	12°58'31"	226.46'	113.72'
③	MS	580.00'	34°03'38"	344.79'	177.66'
④	A	9000.00'	15°38'27"	2456.85'	1236.11'
⑤	C3	230.00'	27°50'36"	111.77'	57.01'
⑥	MN4	600.00'	34°23'57"	360.23'	185.73'
⑦	MN4	1073.89'	10°23'53"	194.89'	97.71'
⑧	C4	5000.00'	06°03'21"	528.46'	264.48'
⑨	C1	4500.00'	04°53'29"	384.17'	192.20'
③A	MS	1150.00'	04°58'56"	364.51'	183.80'
③B	MS	1350.00'	10°30'20"	247.53'	124.11'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

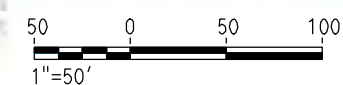
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007

DRAWING NO.
L-2

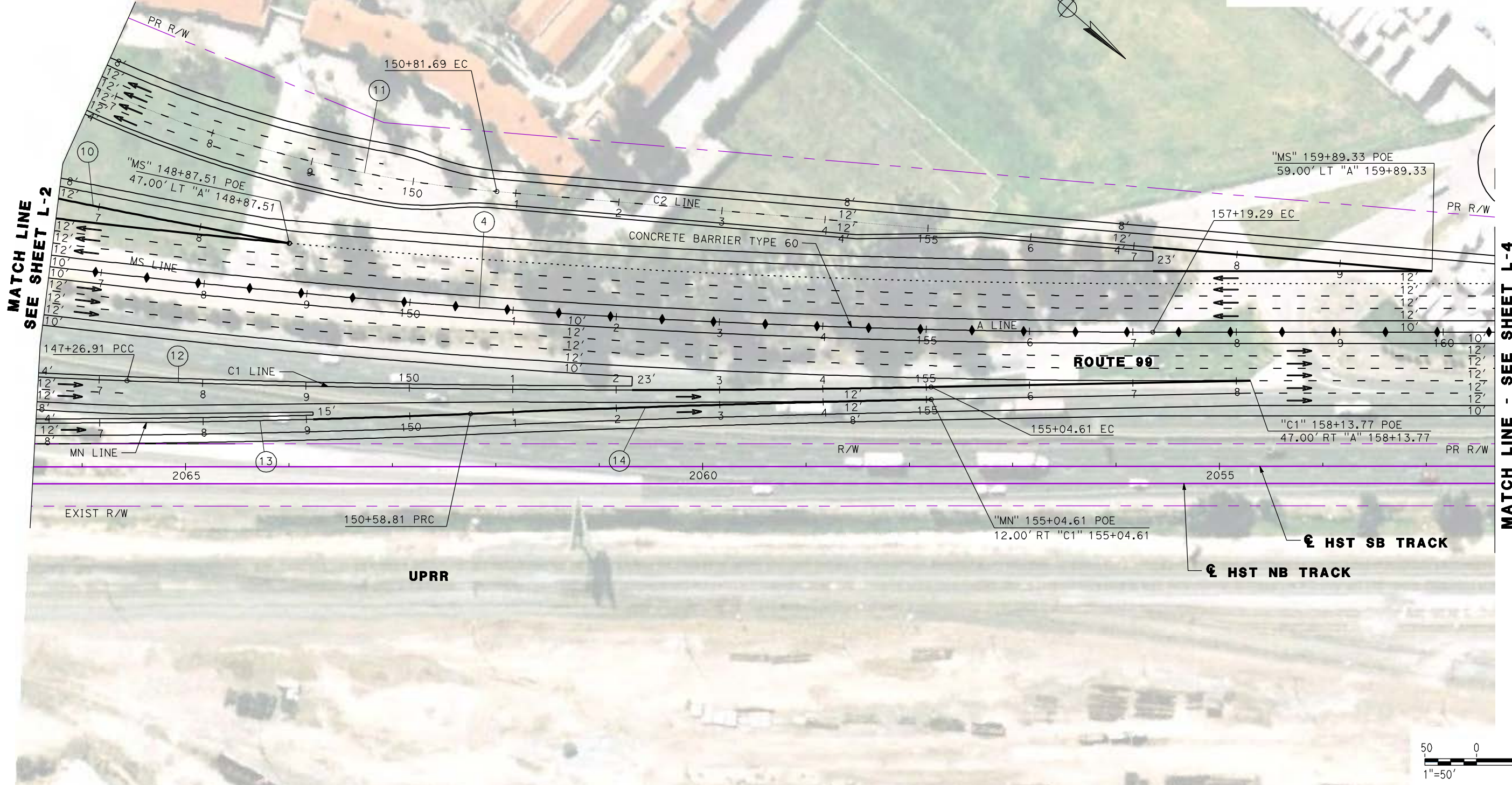
SCALE
AS SHOWN

SHEET NO.



DATE PLOTTED: 03/26/11

CURVE DATA					
No.	LINE	R	Δ	L	T
④	A	9000.00'	15°38'27"	2456.85'	1236.11'
⑩	MS	8000.00'	01°56'18"	270.64'	135.34'
⑪	C2	1188.00'	27°12'55"	564.30'	287.58'
⑫	C1	14000.00'	03°10'58"	777.70'	388.95'
⑬	MN	10000.00'	02°25'22"	422.87'	697.58'
⑭	MN	20000.00'	01°16'38"	445.80'	222.91'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
L. ROS
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

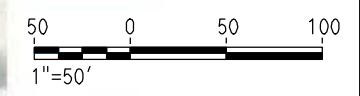
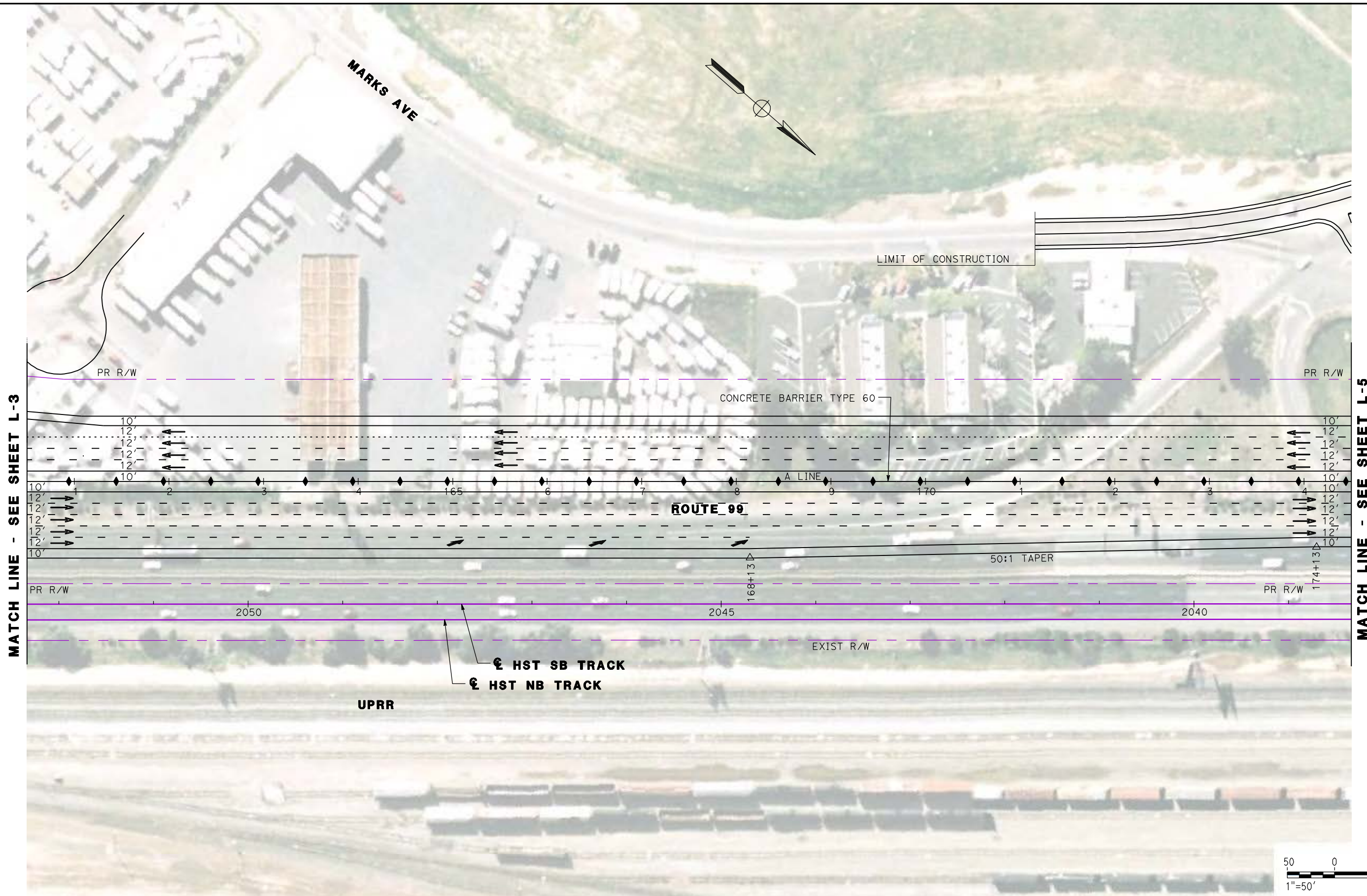
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
 DRAWING NO.
L-3
 SCALE
AS SHOWN
 SHEET NO.

DATE PLOTTED: 03/26/11



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 G. MANOREK
 DRAWN BY
 L. ROS
 CHECKED BY
 L. HEUSTON
 IN CHARGE
 J. MATSUI-DRURY
 DATE
 04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

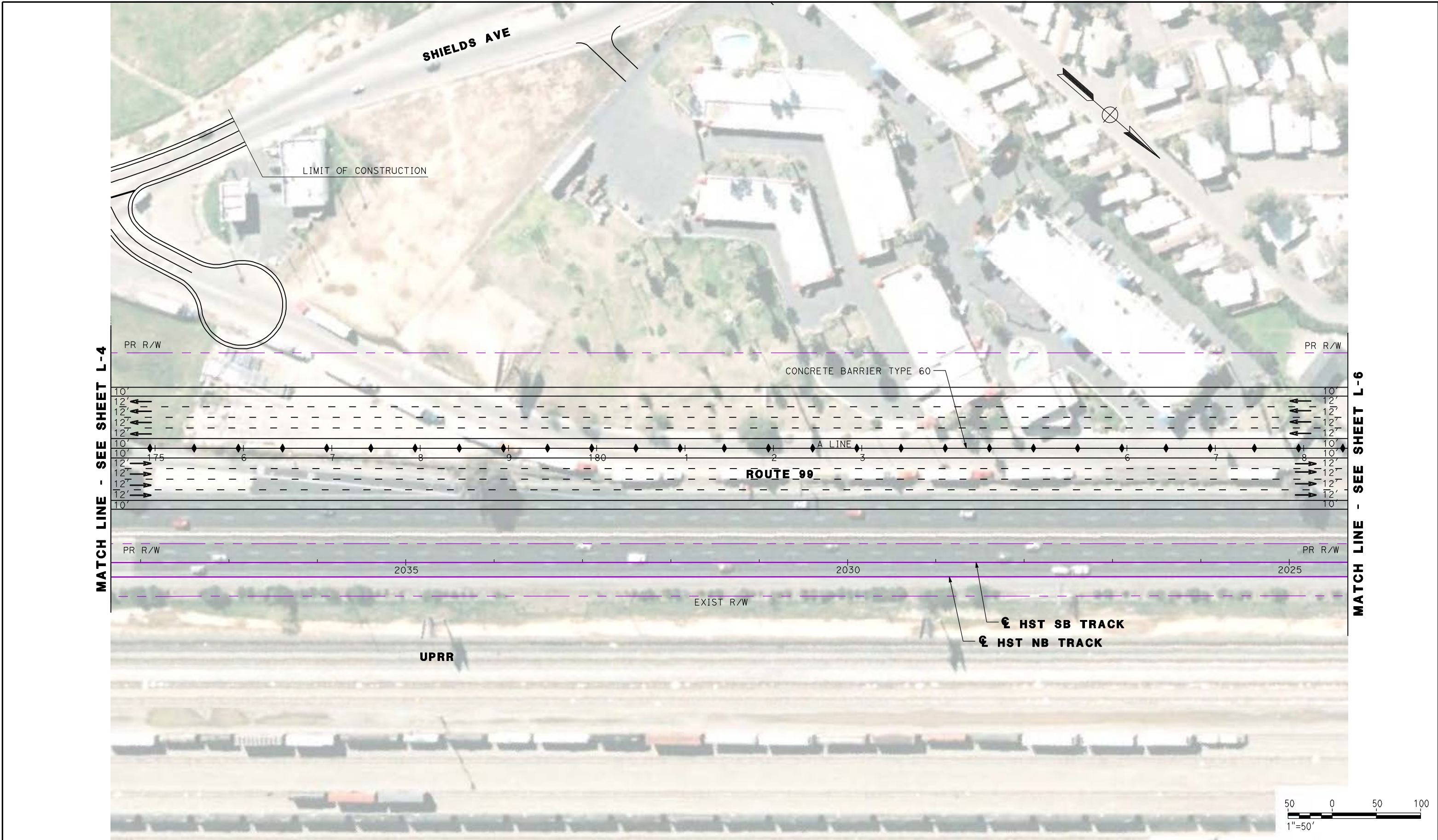
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
 HSR06-007
 DRAWING NO.
L-4
 SCALE
 AS SHOWN
 SHEET NO.

DATE PLOTTED: 03/26/11



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
L. ROS
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

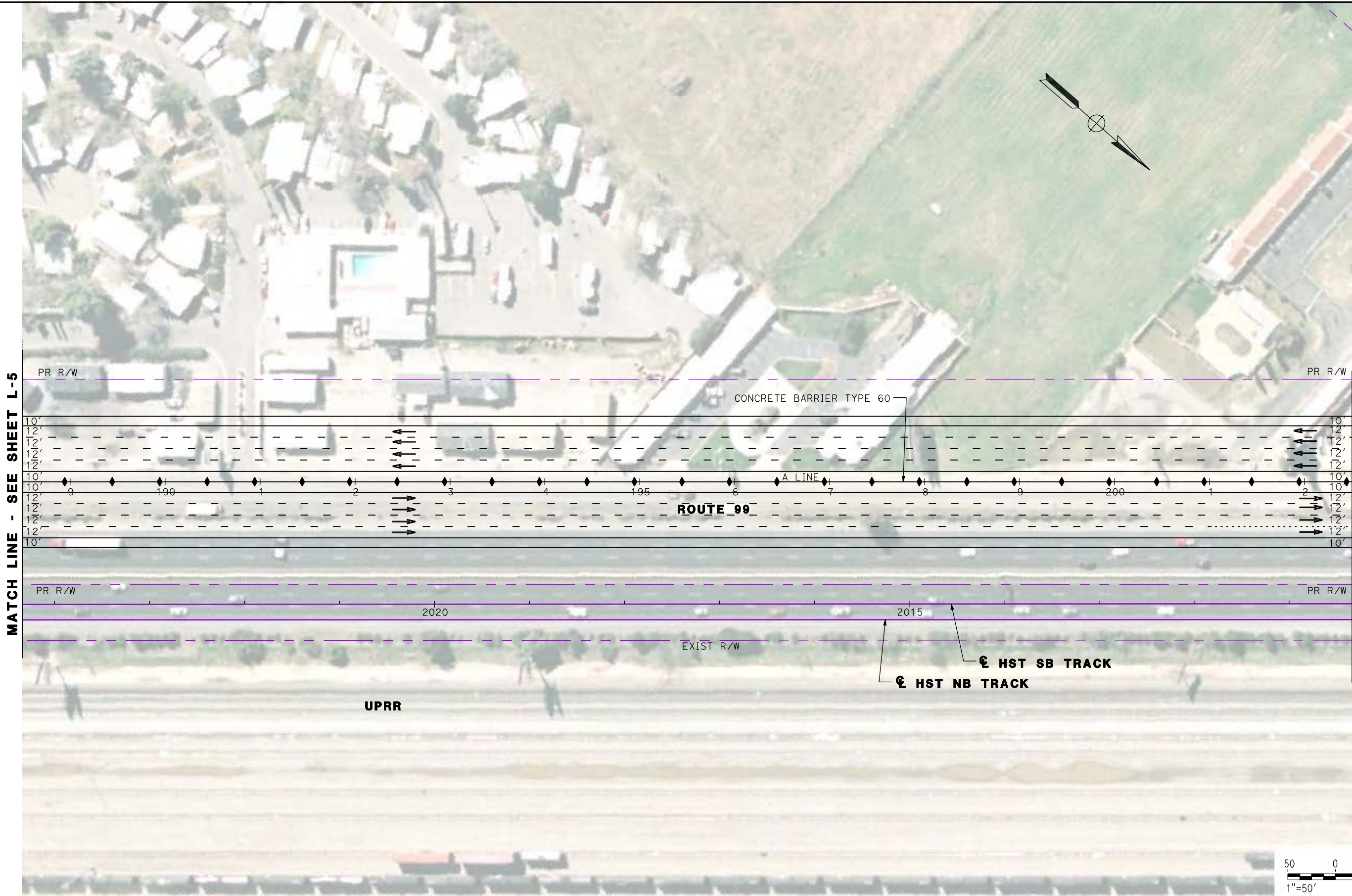
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
 DRAWING NO.
L-5
 SCALE
AS SHOWN
 SHEET NO.

DATE PLOTTED: 23-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 G. MANOREK
 DRAWN BY
 L. ROS
 CHECKED BY
 L. HEUSTON
 IN CHARGE
 J. MATSUI-DRURY
 DATE
 04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

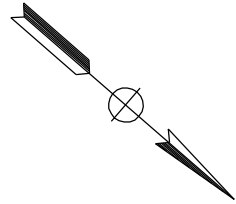


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
 HSR06-007
 DRAWING NO.
L-6
 SCALE
 AS SHOWN
 SHEET NO.

DATE PLOTTED => 26-APR-2011

CURVE DATA					
No.	LINE	R	Δ	L	T
15	V	730.00'	90°37'32"	1154.65'	738.01'



"V" 34+70.52 POE

END CONSTRUCTION
33+80.63 EC

DAKOTA AVE

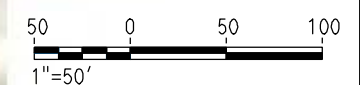
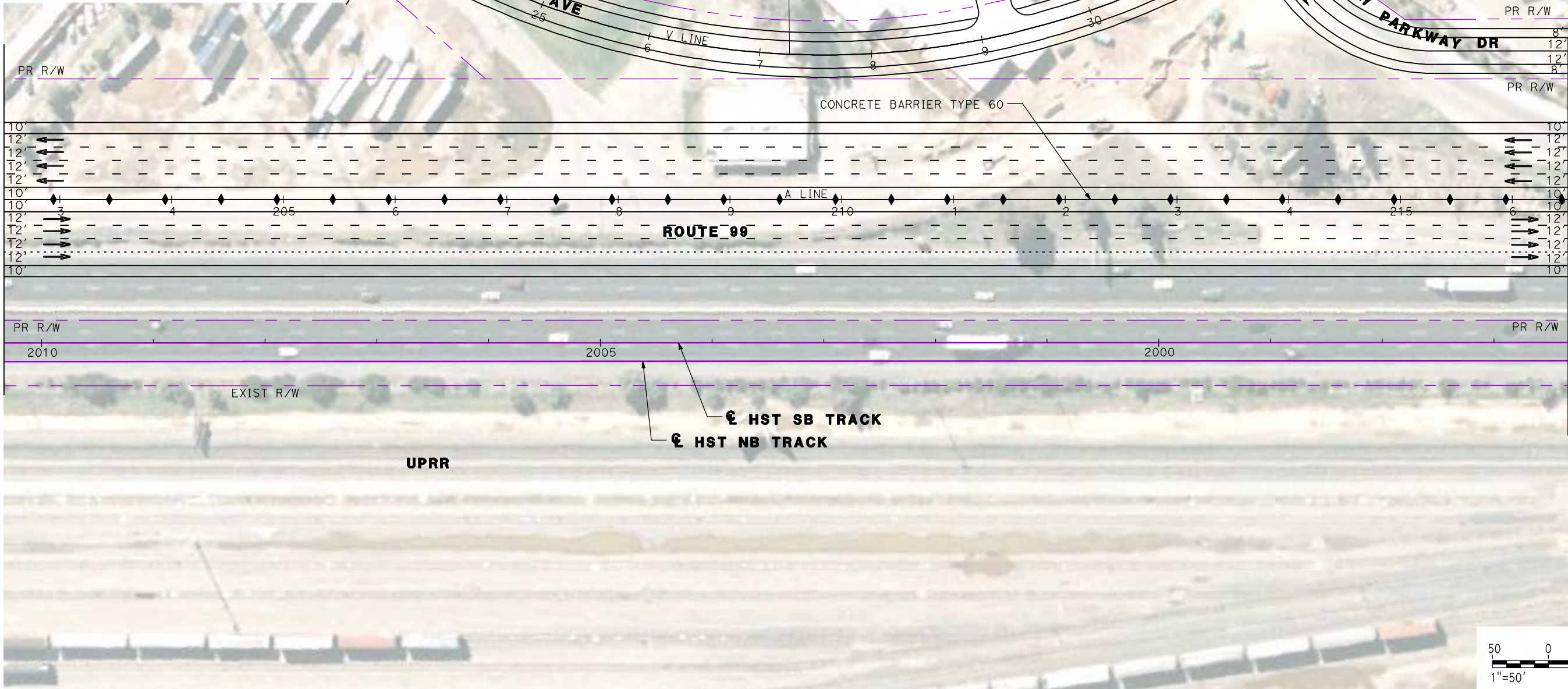
MATCH LINE
SEE SHEET L-15

VALENTINE AVE

NORTH PARKWAY DR

MATCH LINE - SEE SHEET L-6

MATCH LINE - SEE SHEET L-8



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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Sacramento, CA 95811

CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007

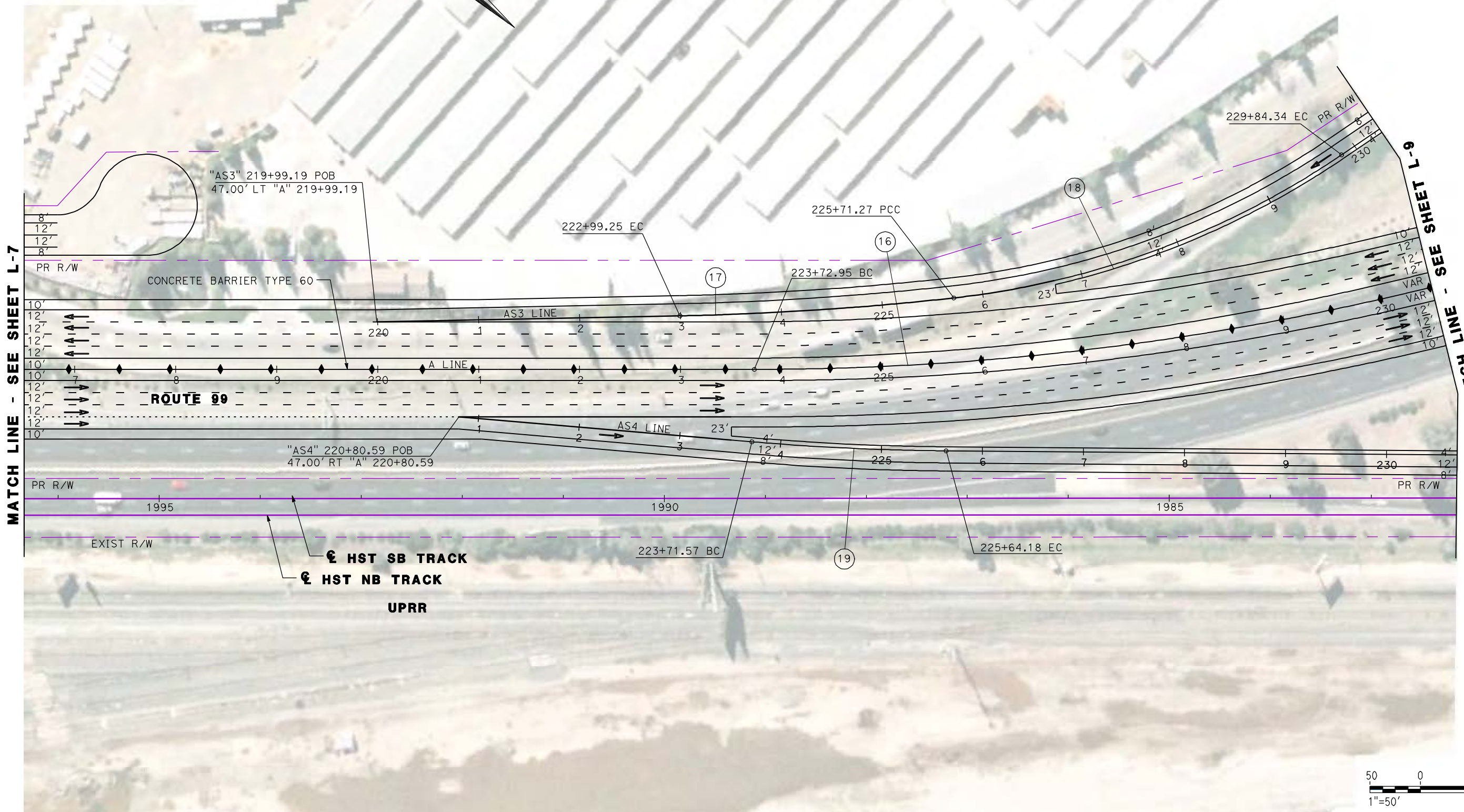
DRAWING NO.
L-7

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED: 03/26/11

CURVE DATA					
No.	LINE	R	Δ	L	T
16	A	2800.00'	25°05'16"	1226.02'	623.00'
17	AS3	3000.00'	05°11'43"	272.02'	136.10'
18	AS3	850.00'	27°50'37"	413.07'	210.70'
19	AS4	2500.00'	04°24'52"	192.62'	96.36'



MATCH LINE - SEE SHEET L-7

MATCH LINE - SEE SHEET L-9



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

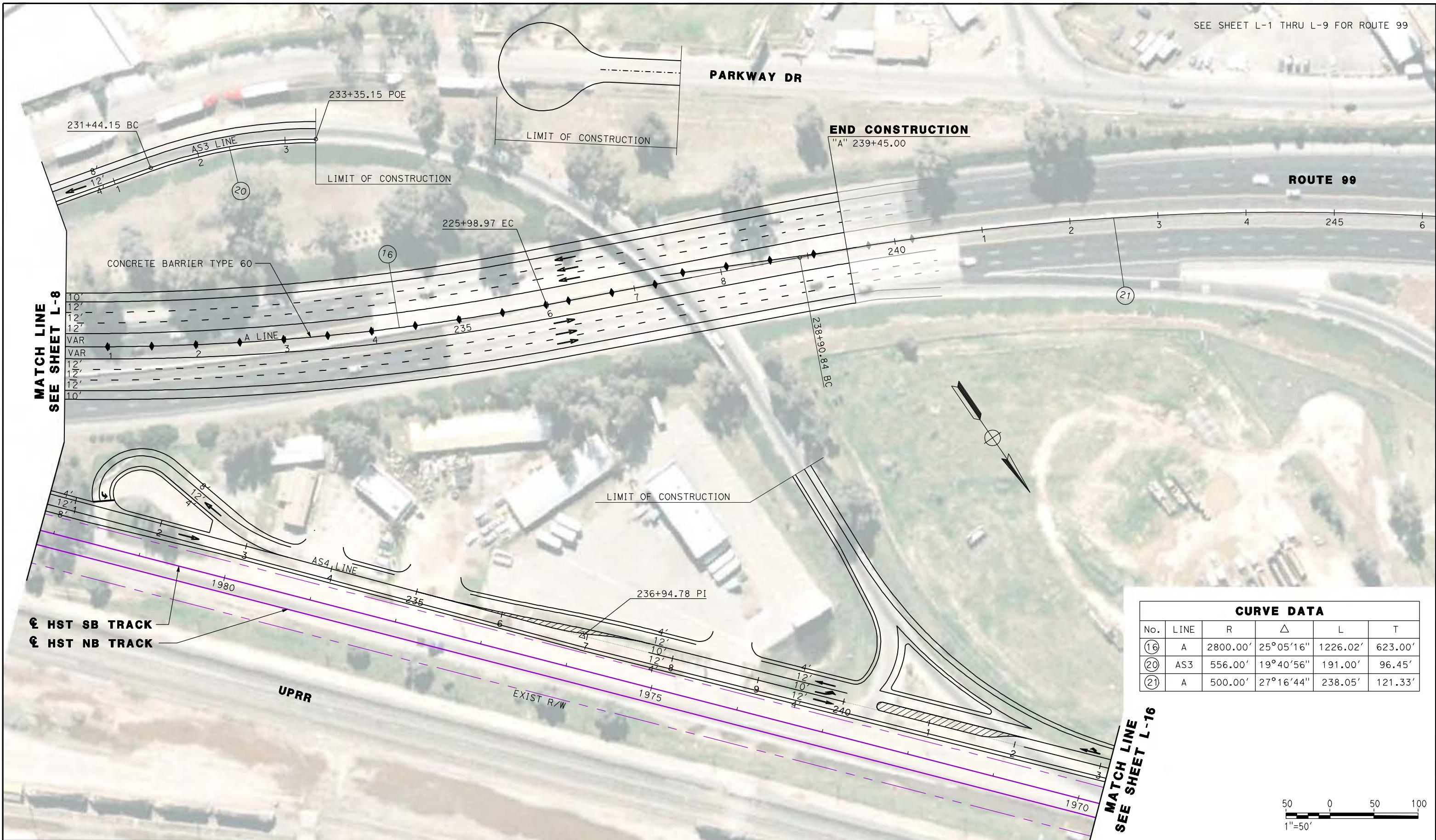
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
DRAWING NO.
L-8
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11



CURVE DATA					
No.	LINE	R	Δ	L	T
16	A	2800.00'	25°05'16"	1226.02'	623.00'
20	AS3	556.00'	19°40'56"	191.00'	96.45'
21	A	500.00'	27°16'44"	238.05'	121.33'

MATCH LINE
SEE SHEET L-8

MATCH LINE
SEE SHEET L-16

⊕ HST SB TRACK
⊕ HST NB TRACK

UPRR

EXIST R/W

END CONSTRUCTION
"A" 239+45.00

ROUTE 99

PARKWAY DR

LIMIT OF CONSTRUCTION

LIMIT OF CONSTRUCTION

CONCRETE BARRIER TYPE 60

AS3 LINE

LIMIT OF CONSTRUCTION

AS4 LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
DRAWING NO.
L-9
SCALE
AS SHOWN
SHEET NO.

SEE SHEET L-1 THRU L-9 FOR ROUTE 99

CURVE DATA

No.	LINE	R	Δ	L	T
22	C	2031.50'	05°47'54"	205.59'	102.88'
23	C	2000.00'	06°02'32"	210.91'	105.55'



BEGIN CONSTRUCTION
"C" 10+00.00 POB

CLINTON AVE

12+95.47 BC

15+01.06 PRC

23 RETAINING WALL

"C3" 144+21.46 POE =
"C" 18+36.94 POT

VASSAR AVE

17+11.97 EC

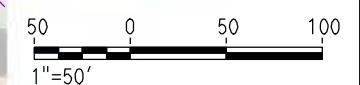
"C" 20+07.05 POT =
"MS" 143+26.56 POT

"A" 142+42.66 POC =
"C" 21+49.47 POT

LIMIT OF CONSTRUCTION

PLEASANT AVE

MATCH LINE - SEE SHEET L-11



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

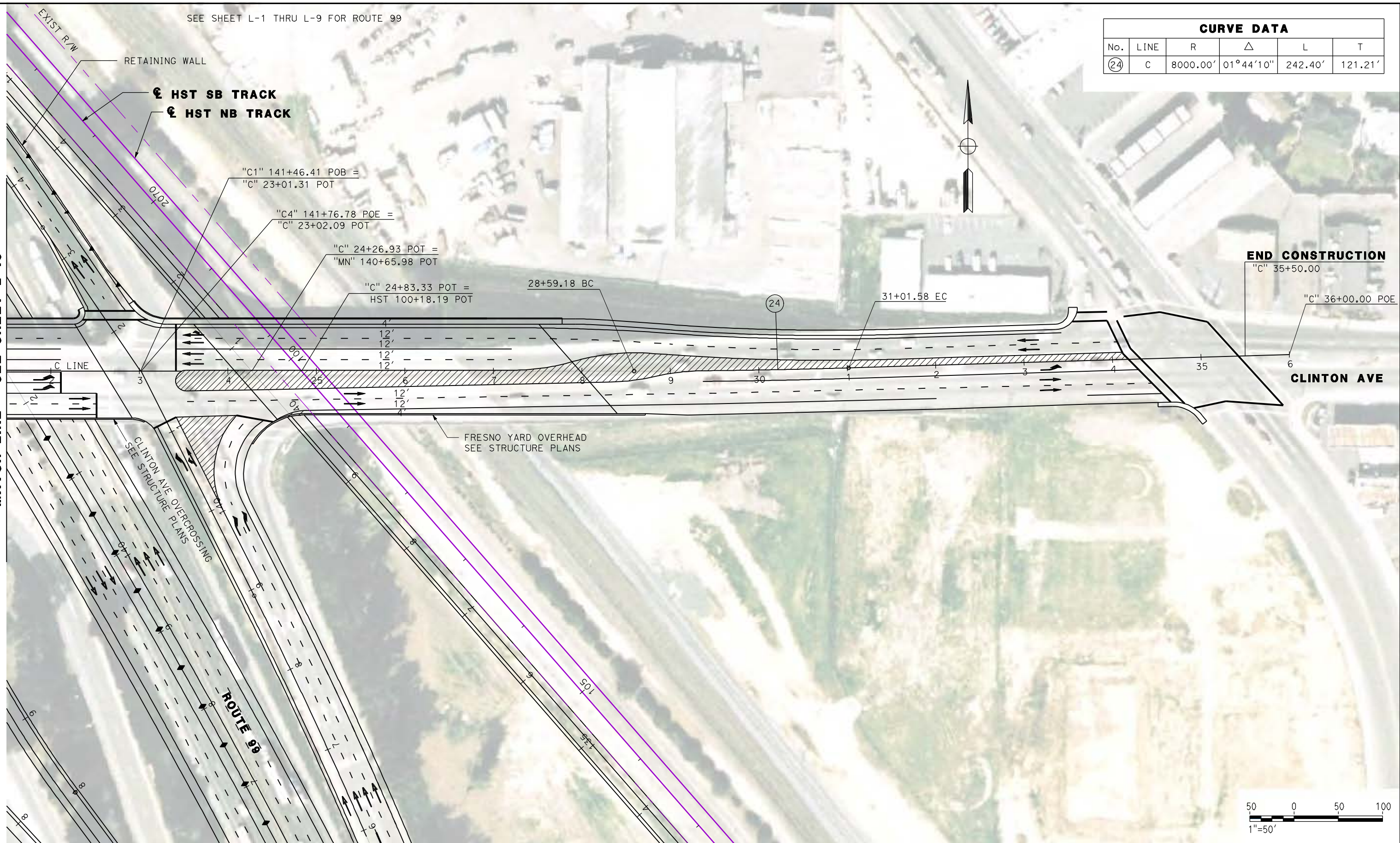
CONTRACT NO.
HSR06-007
DRAWING NO.
L-10
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11

SEE SHEET L-1 THRU L-9 FOR ROUTE 99

CURVE DATA					
No.	LINE	R	Δ	L	T
(24)	C	8000.00'	01°44'10"	242.40'	121.21'

MATCH LINE - SEE SHEET L-10



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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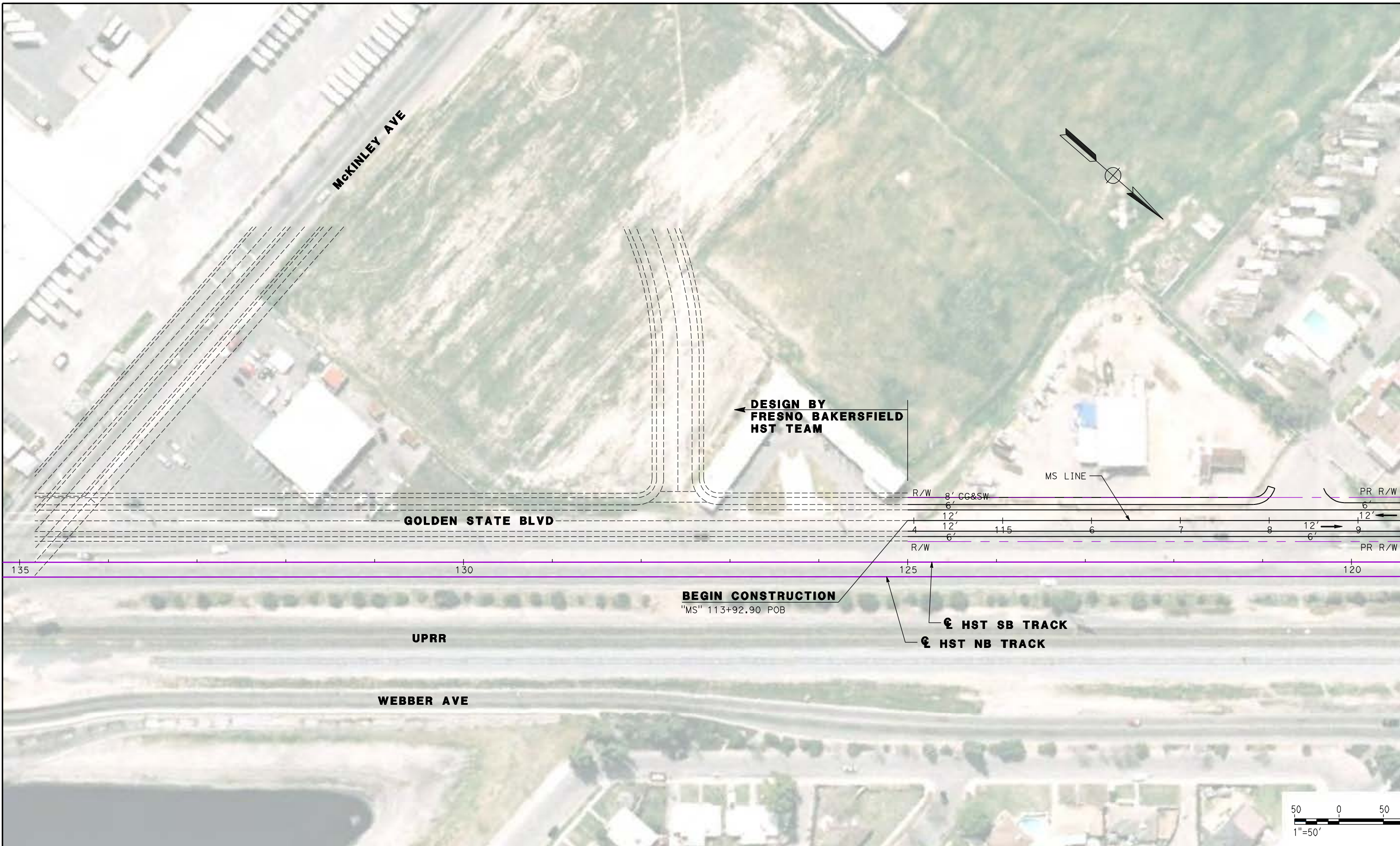
CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.	HSR06-007
DRAWING NO.	L-11
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 03/26/11



DESIGN BY
FRESNO BAKERSFIELD
HST TEAM

MS LINE

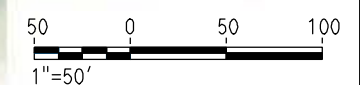
GOLDEN STATE BLVD

BEGIN CONSTRUCTION
"MS" 113+92.90 POB

⊕ HST SB TRACK
⊕ HST NB TRACK

UPRR

WEBBER AVE



MATCH LINE - SEE SHEET L-13

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007

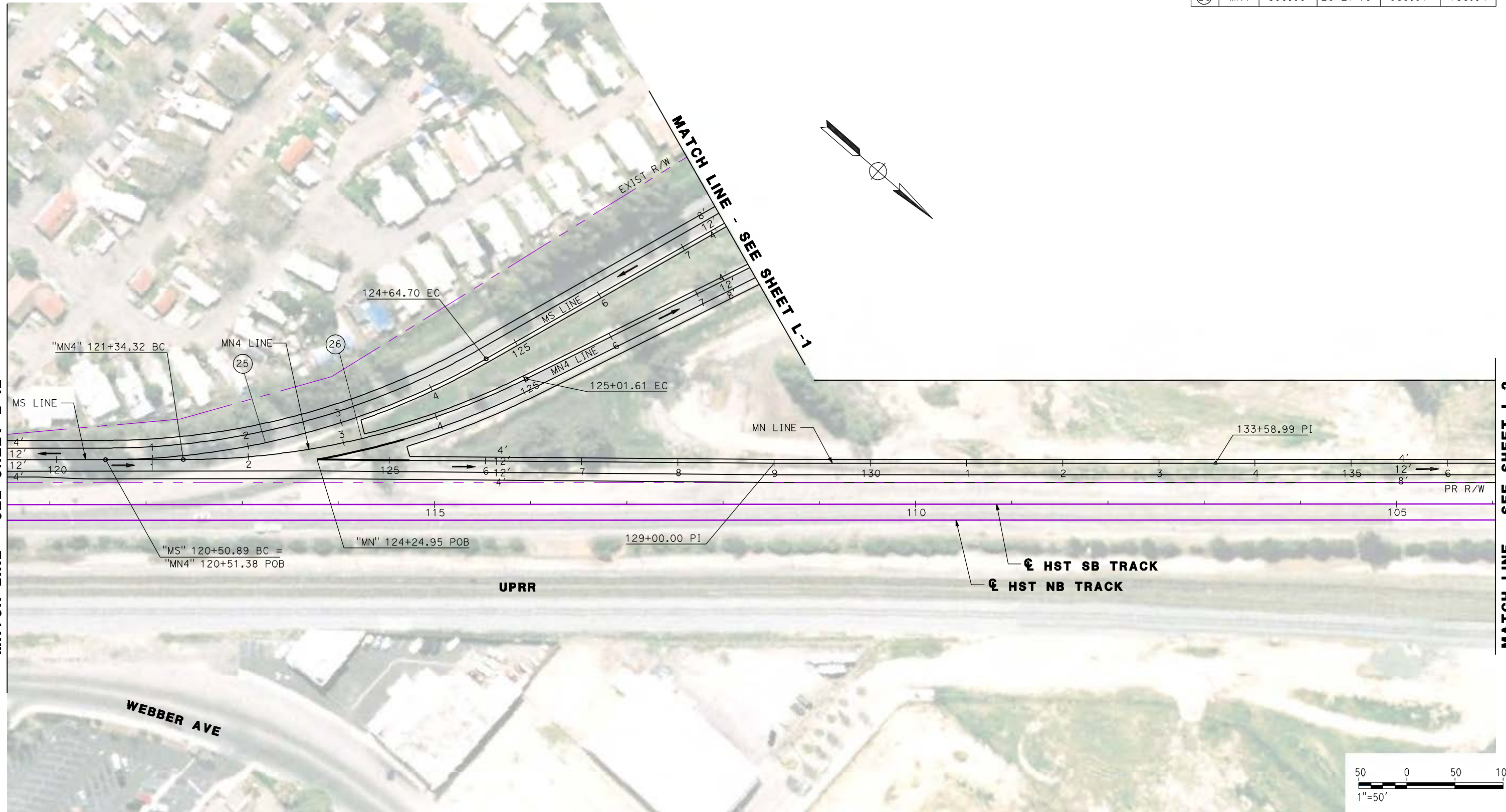
DRAWING NO.
L-12

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED => 26-APR-2011

CURVE DATA					
No.	LINE	R	Δ	L	T
25	MS	800.00'	29°28'13"	413.81'	211.65'
26	MN4	800.00'	26°27'15"	369.37'	188.04'



MATCH LINE - SEE SHEET L-12

MATCH LINE - SEE SHEET L-2

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
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CONSTRUCTION

AECOM
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CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

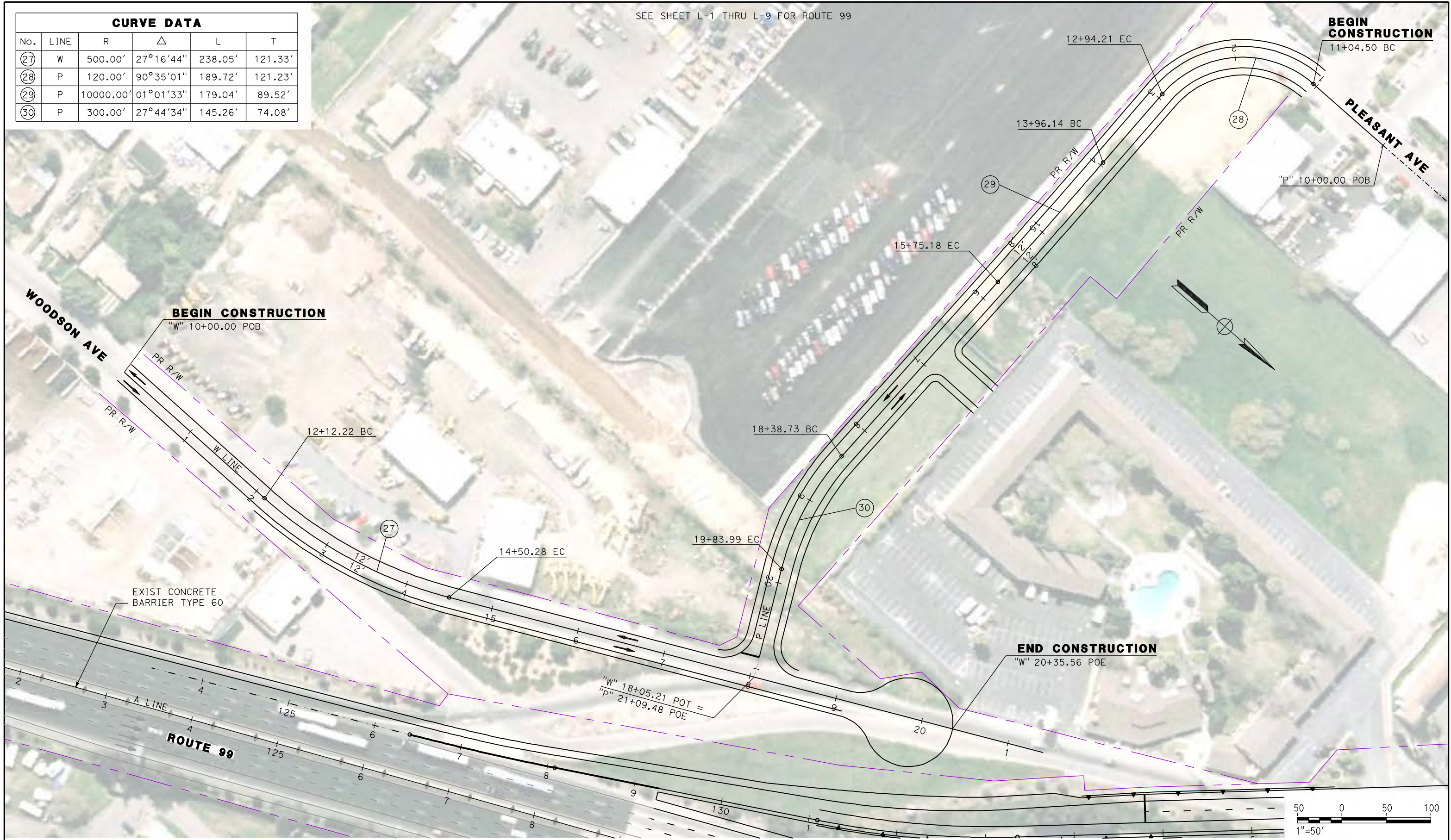
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
DRAWING NO.
L-13
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11

SEE SHEET L-1 THRU L-9 FOR ROUTE 99

CURVE DATA					
No.	LINE	R	Δ	L	T
27	W	500.00'	27°16'44"	238.05'	121.33'
28	P	120.00'	90°35'01"	189.72'	121.23'
29	P	10000.00'	01°01'33"	179.04'	89.52'
30	P	300.00'	27°44'34"	145.26'	74.08'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
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CONSTRUCTION

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CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.	HSR06-007
DRAWING NO.	L-14
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 23-APR-2011

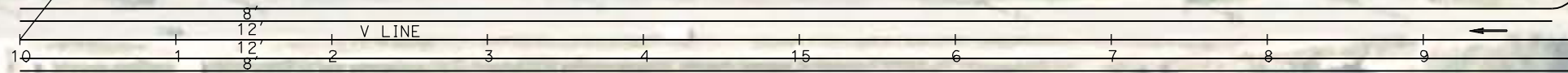
SEE SHEET L-1 THRU L-9 FOR ROUTE 99



BEGIN CONSTRUCTION

"V" 10+00.00 POB

VALENTINE AVE



22+25.97 BC

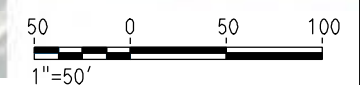
MATCH LINE
SEE SHEET L-7

R/W

A LINE

ROUTE 99

R/W
2010



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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Sacramento, CA 95811

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007

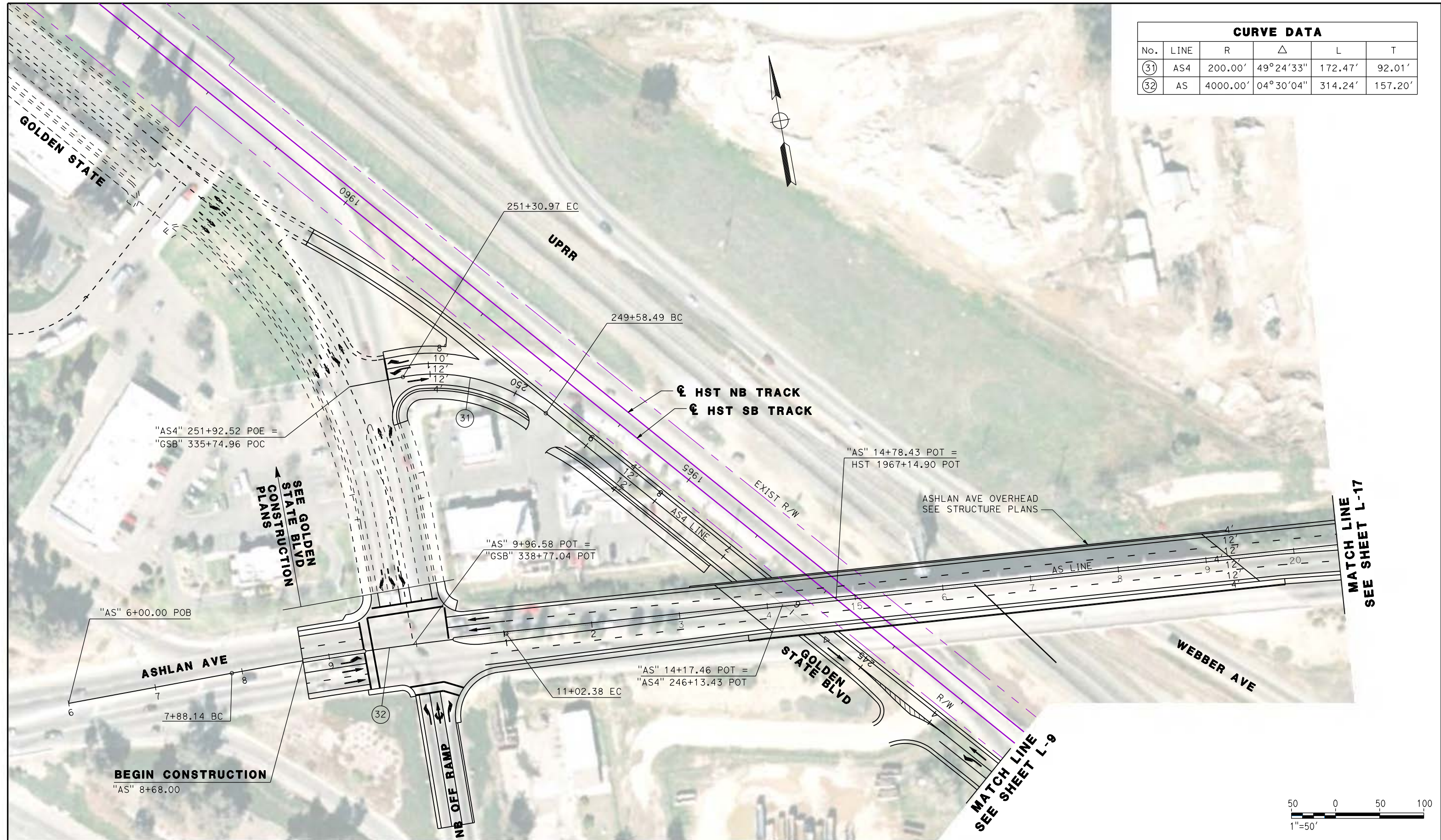
DRAWING NO.
L-15

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED => 26-APR-2011

CURVE DATA					
No.	LINE	R	Δ	L	T
31	AS4	200.00'	49°24'33"	172.47'	92.01'
32	AS	4000.00'	04°30'04"	314.24'	157.20'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
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CONSTRUCTION

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CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007

DRAWING NO.
L-16

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED: 23-APR-2011

CURVE DATA					
No.	LINE	R	Δ	L	T
33	AS	1802.00'	17°05'39"	537.62'	270.82'
34	AS	2098.00'	11°01'06"	403.45'	202.35'



MATCH LINE
SEE SHEET L-16

END CONSTRUCTION
"AS" 30+00.00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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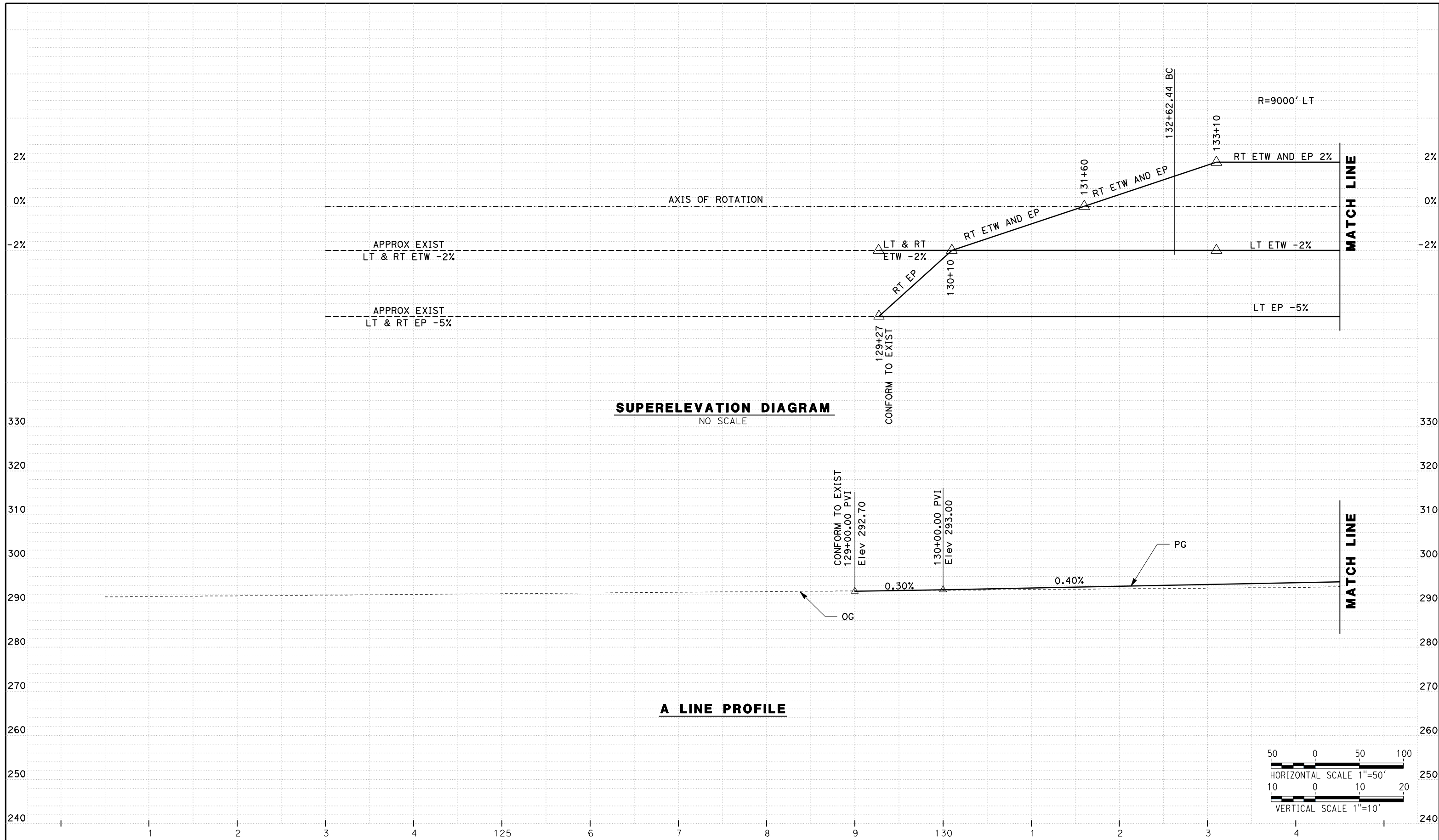
CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.	HSR06-007
DRAWING NO.	L-17
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 23-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK

DRAWN BY
L. ROS

CHECKED BY
L. HEUSTON

IN CHARGE
J. MATSUI-DRURY

DATE
04/29/11

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

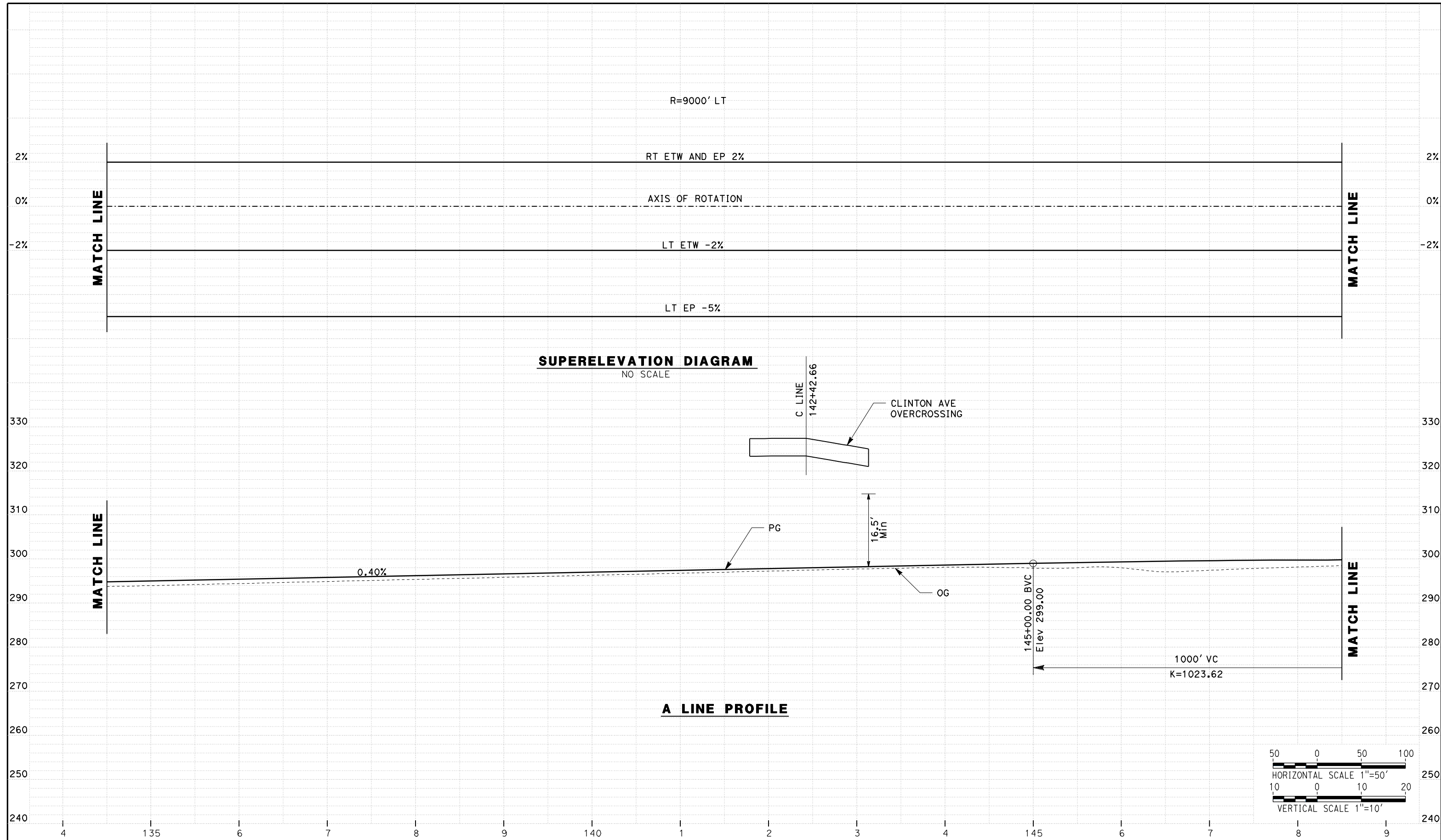
CONTRACT NO.
HSR06-007

DRAWING NO.
P-1

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK

DRAWN BY
L. ROS

CHECKED BY
L. HEUSTON

IN CHARGE
J. MATSUI-DRURY

DATE
04/29/11

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

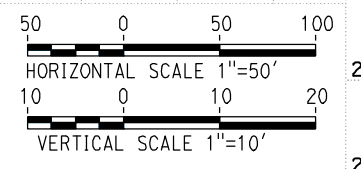
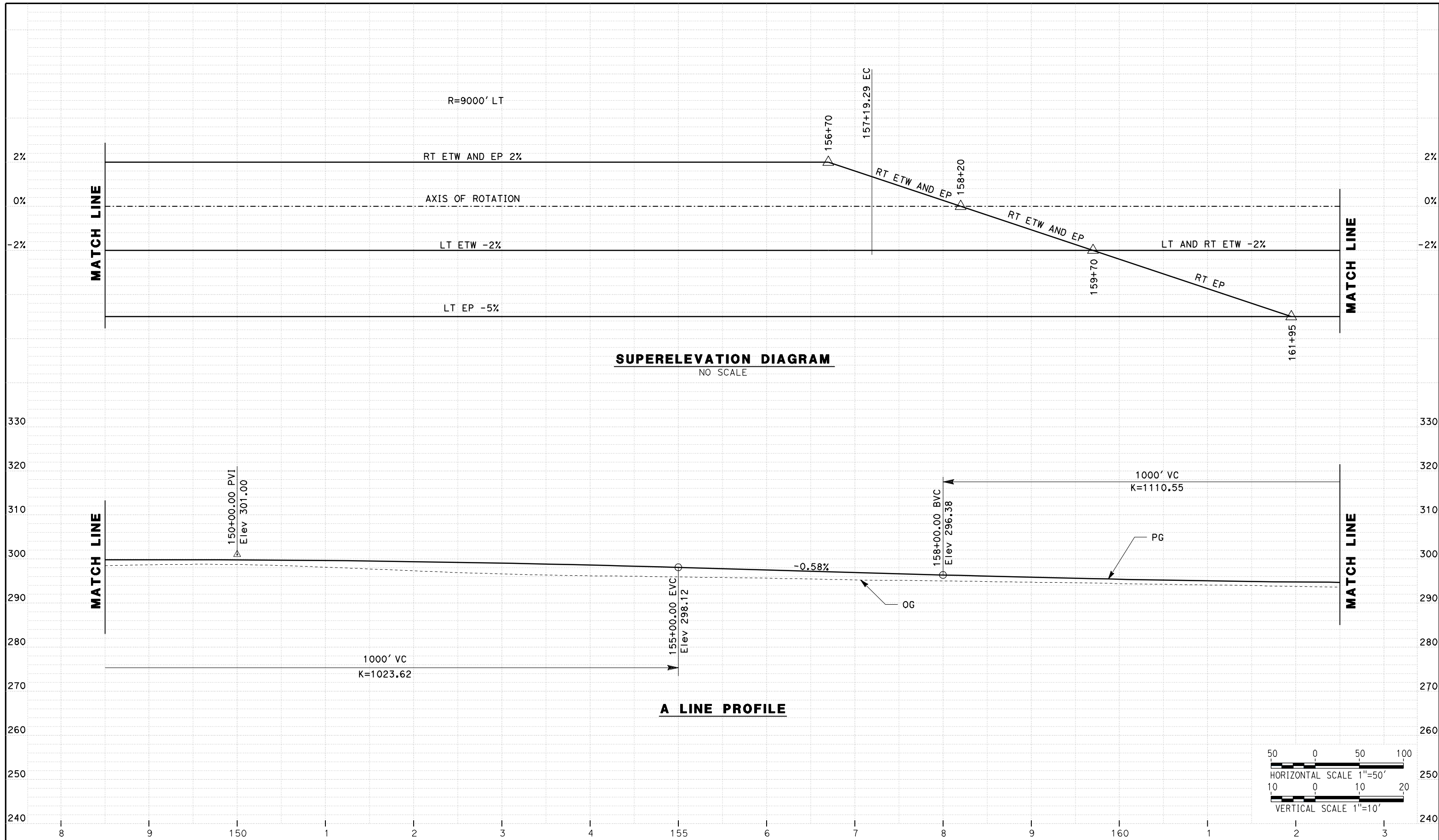
CONTRACT NO.
HSR06-007

DRAWING NO.
P-2

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

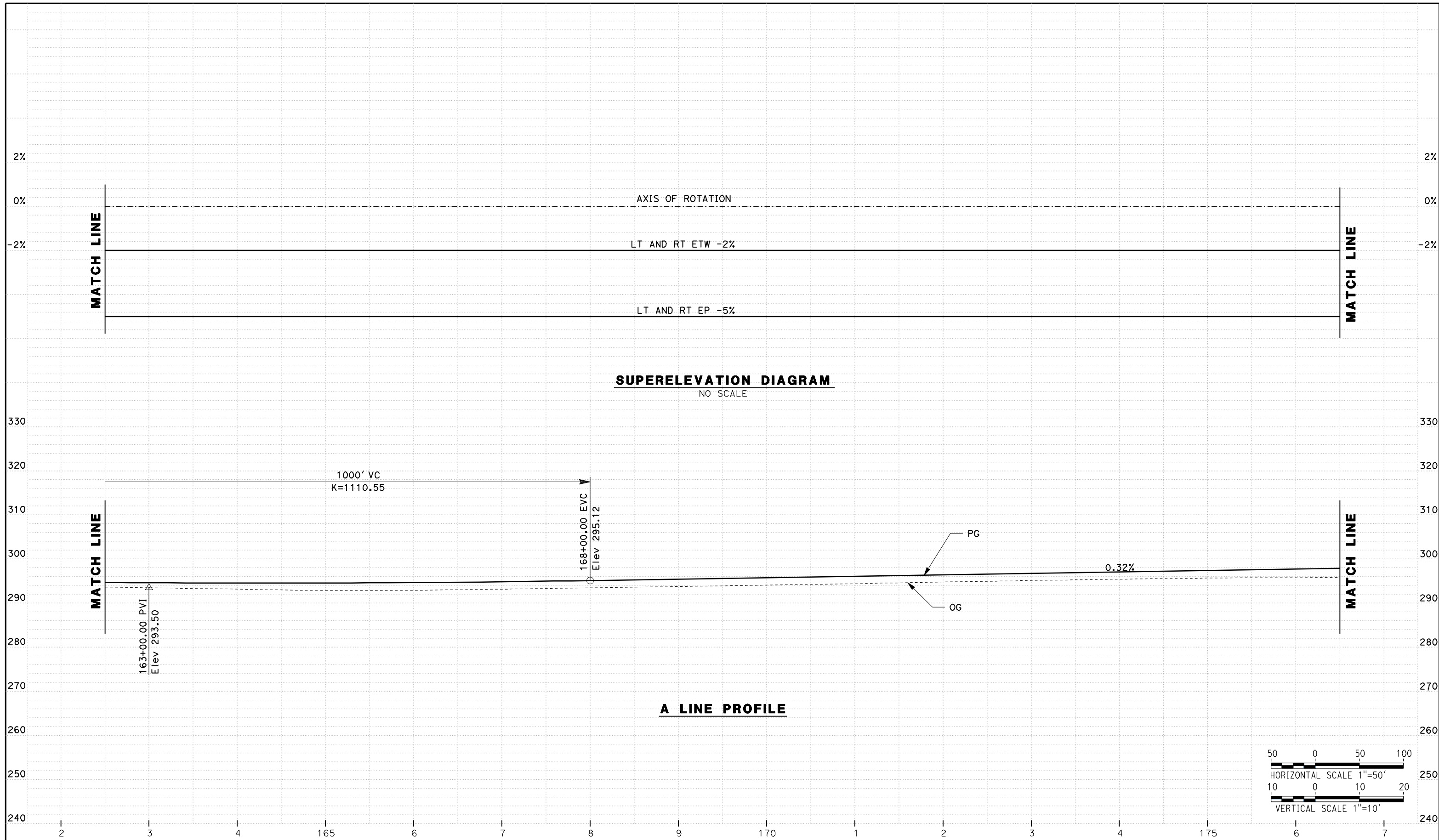
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-3
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

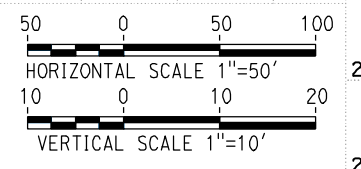
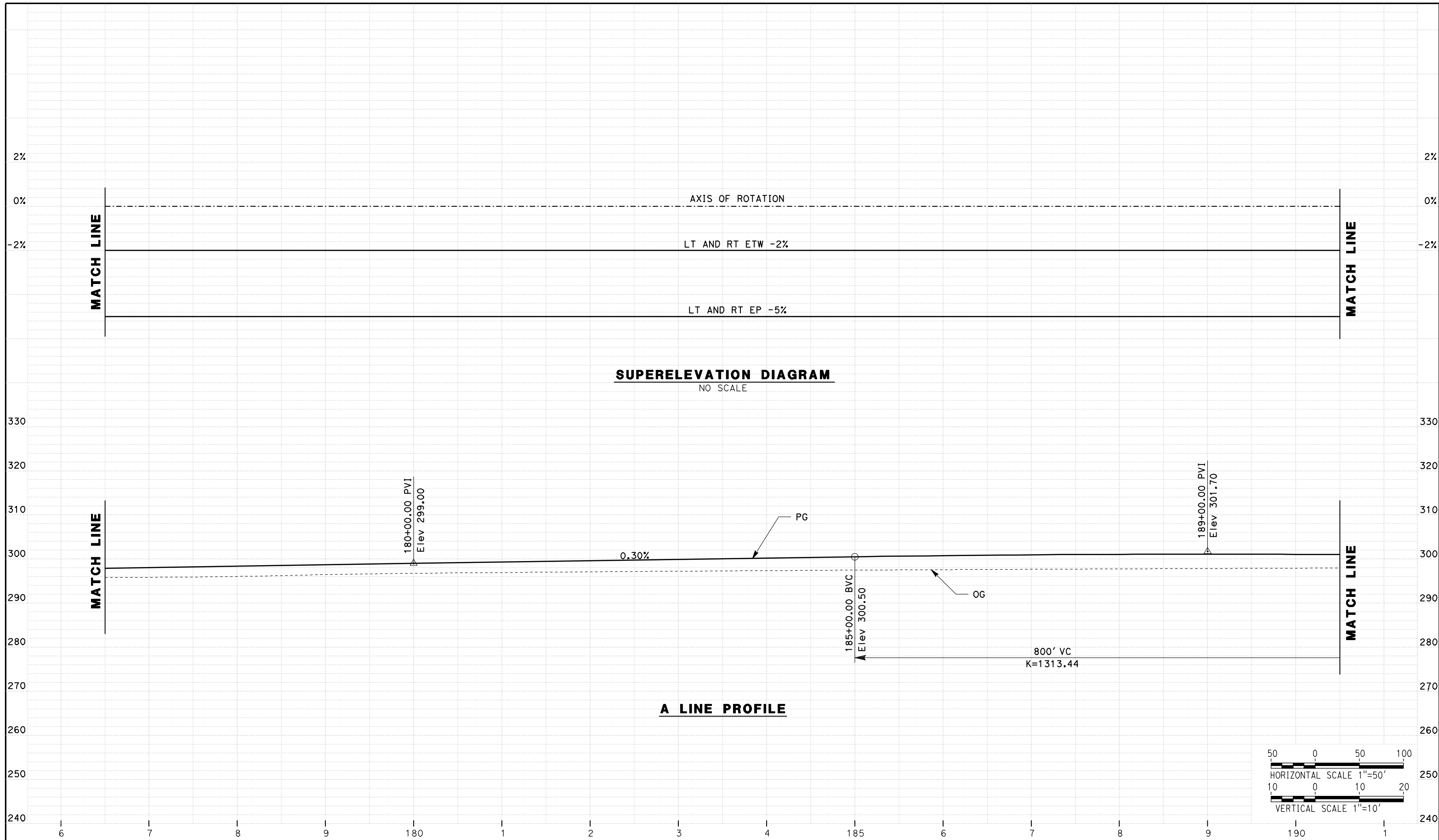
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-4
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
L. ROS
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

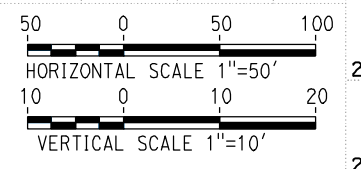
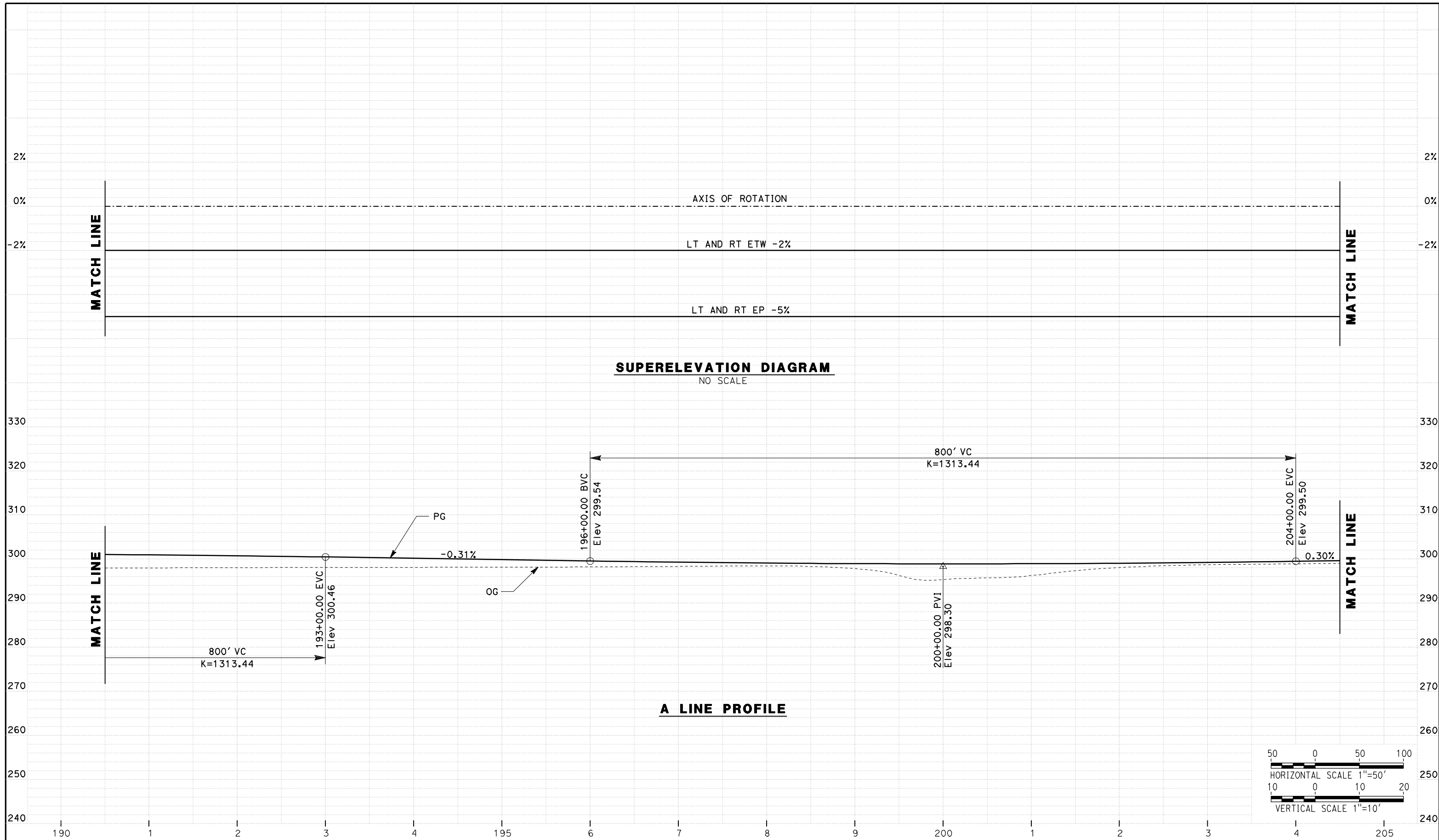
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
 DRAWING NO.
P-5
 SCALE
AS SHOWN
 SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

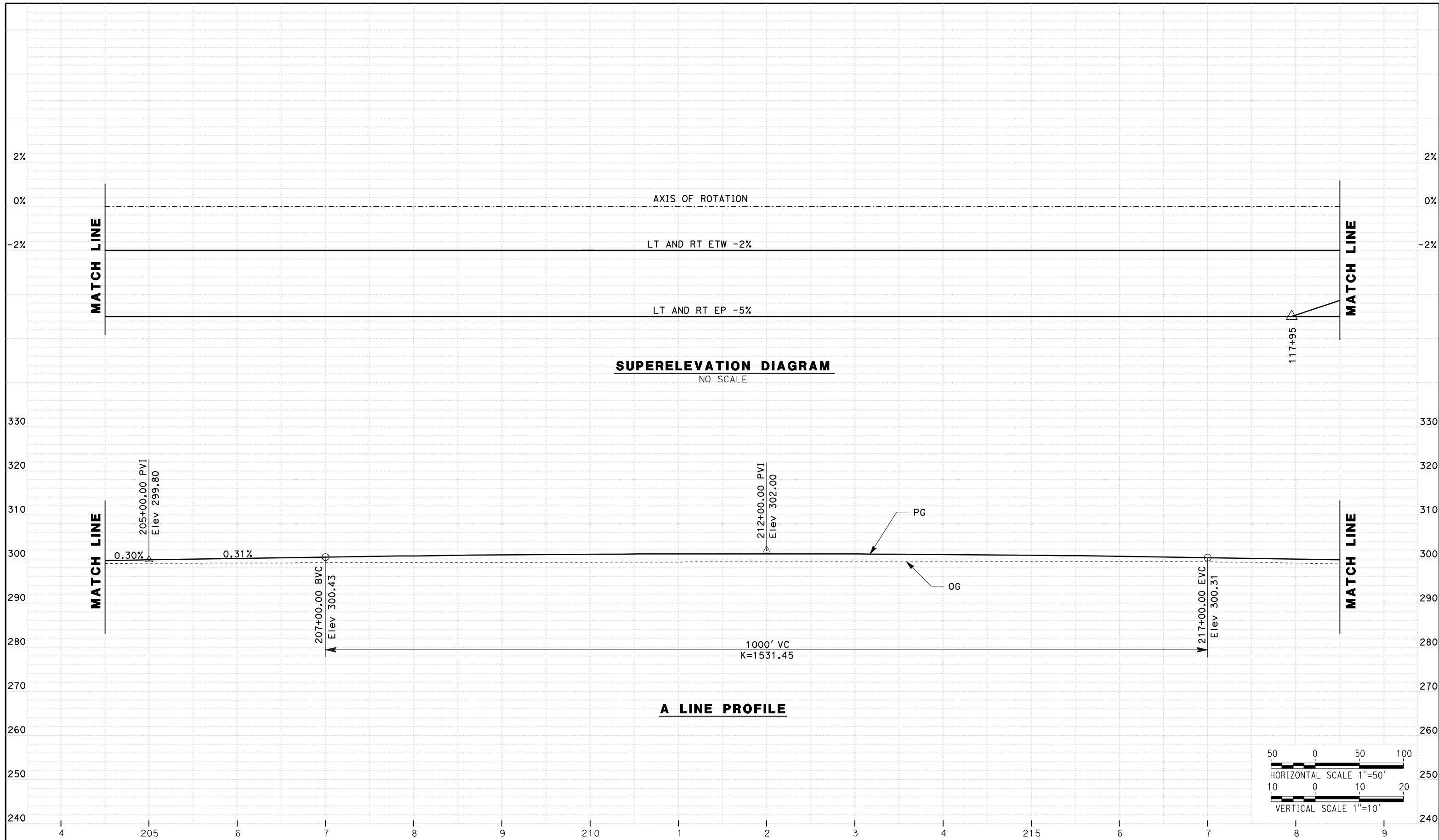
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-6
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

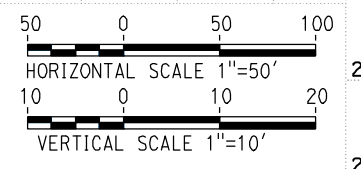
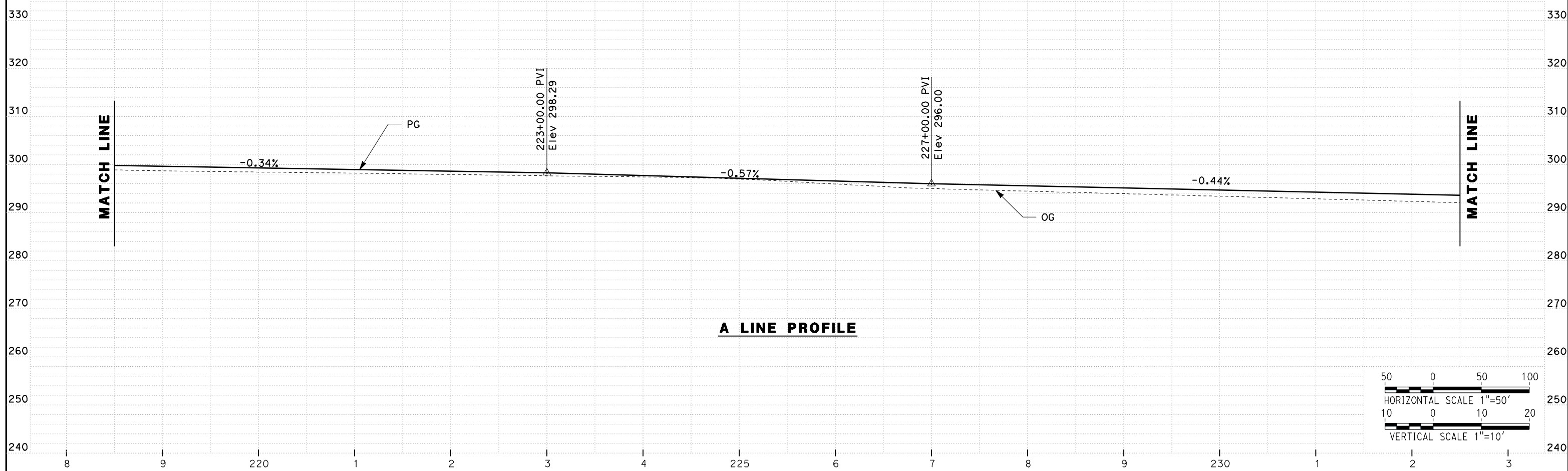
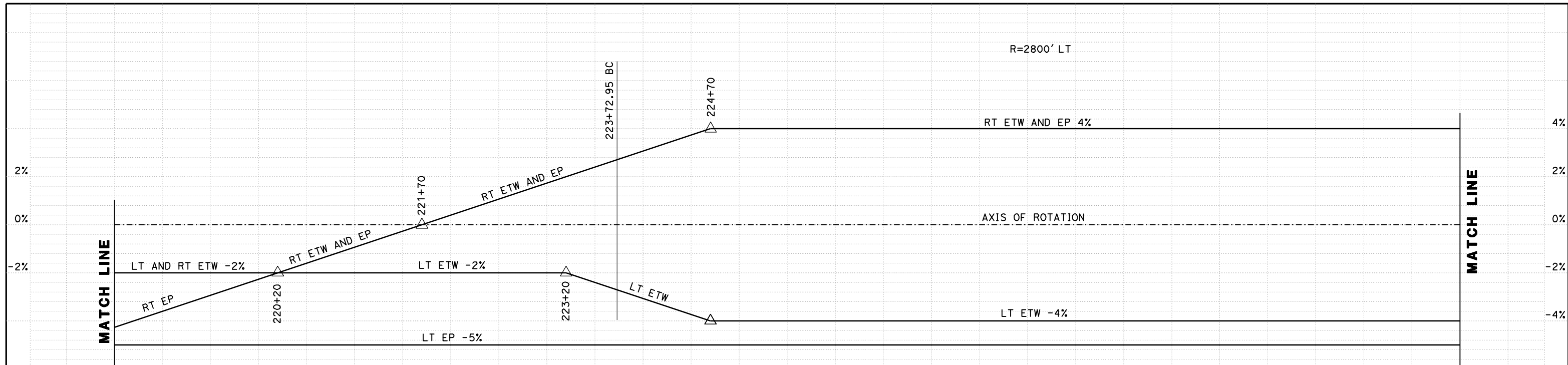
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-7
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

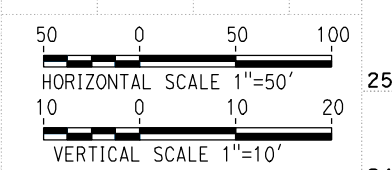
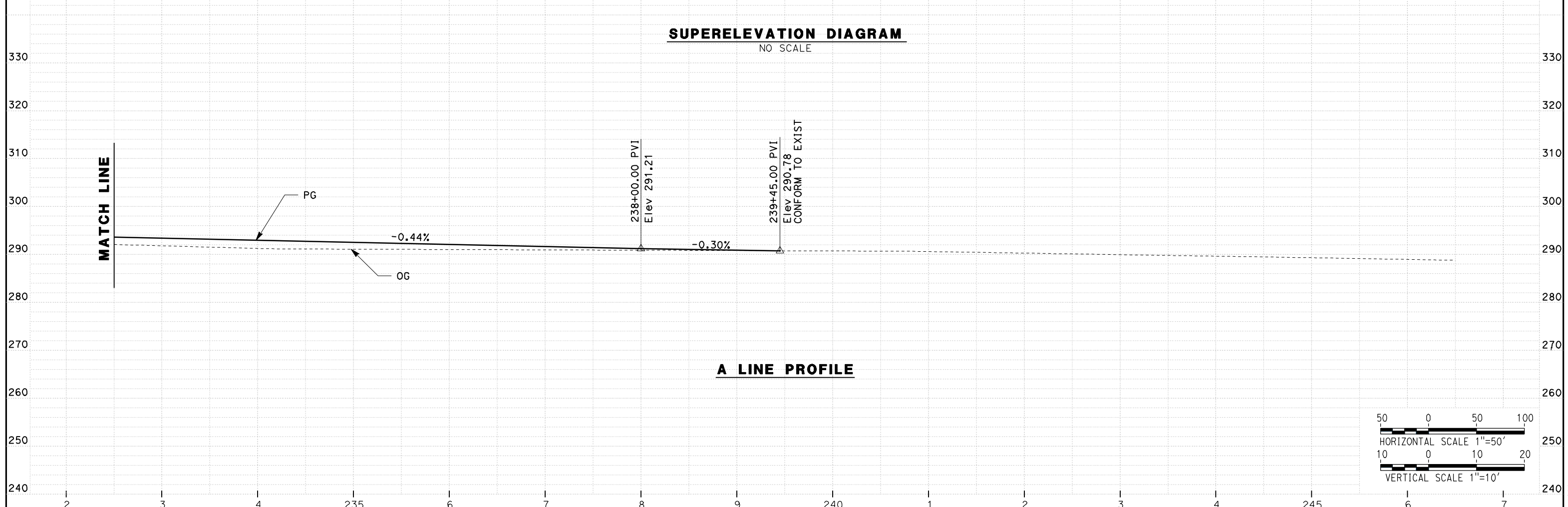
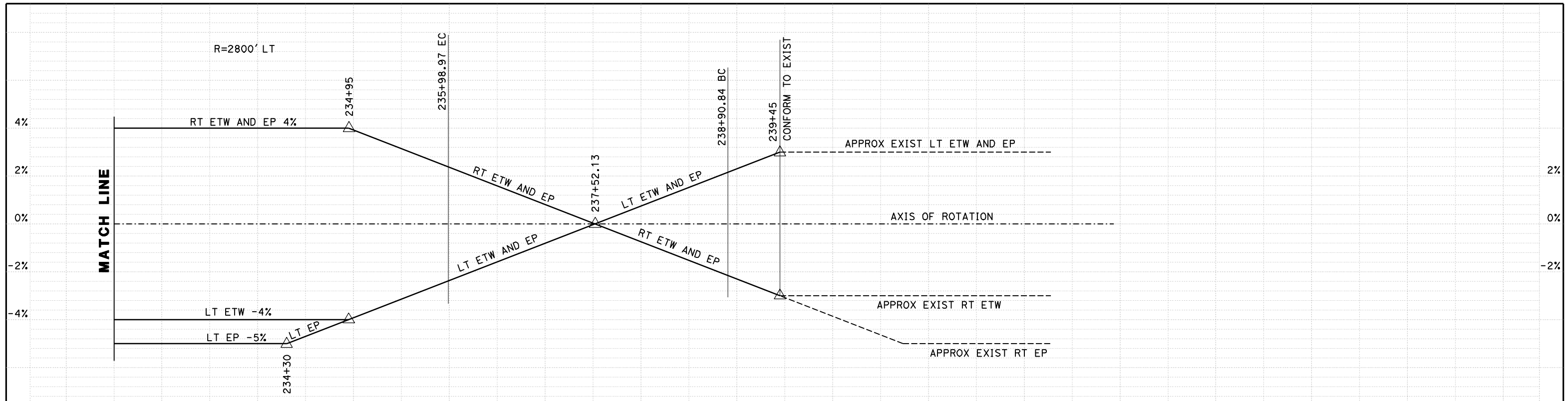
CONTRACT NO.
HSR06-007

DRAWING NO.
P-8

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

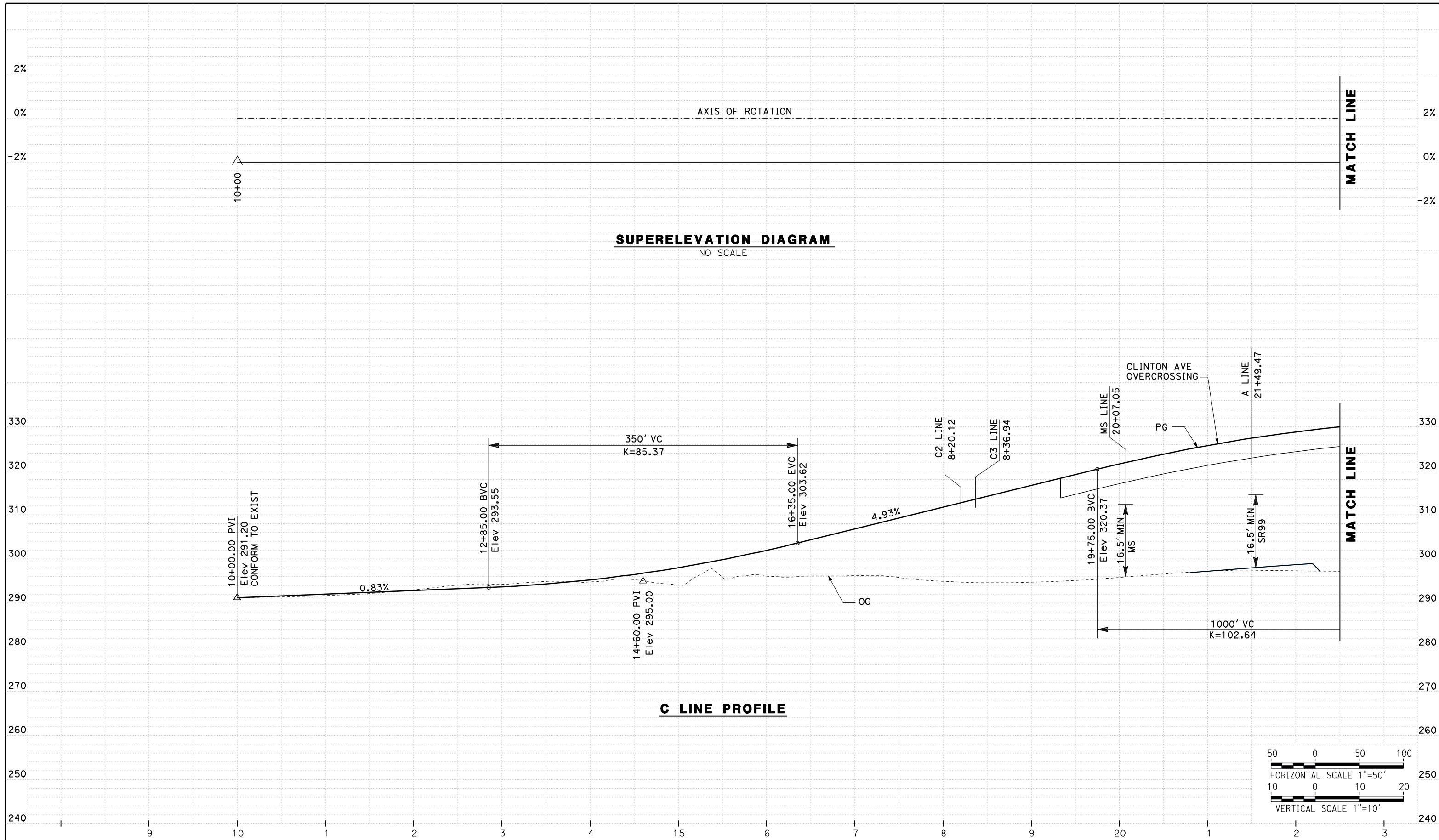
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

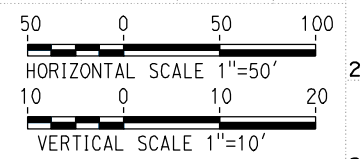
CONTRACT NO.
HSR06-007
DRAWING NO.
P-9
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM
NO SCALE

C LINE PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

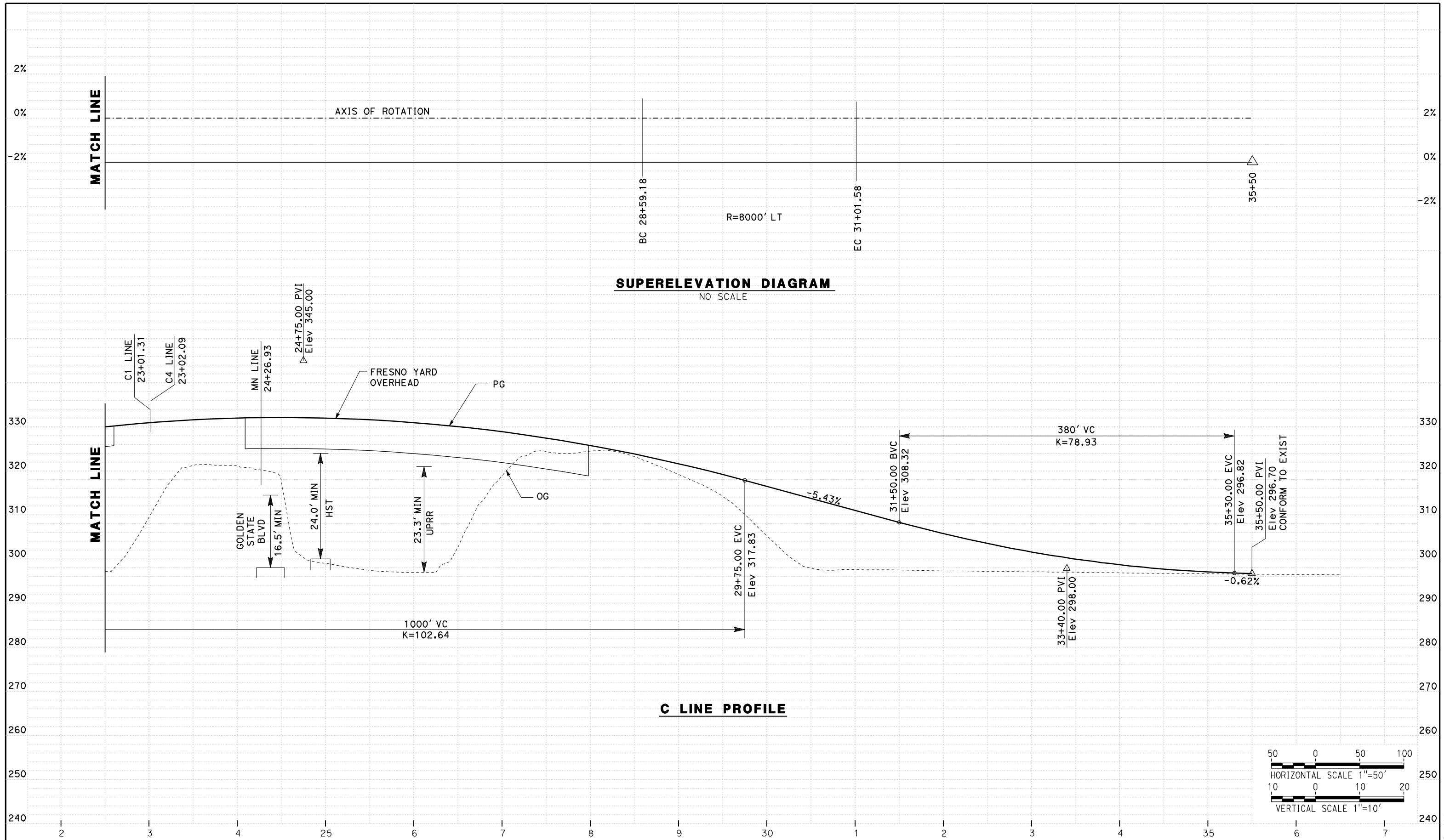
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-10
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
L. ROS
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

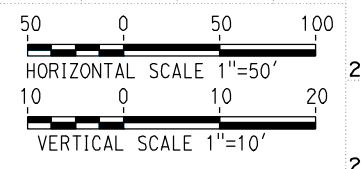
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SUBMITTAL

NOT FOR
CONSTRUCTION

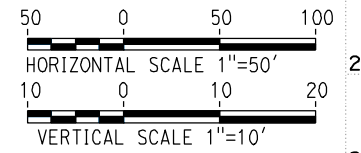
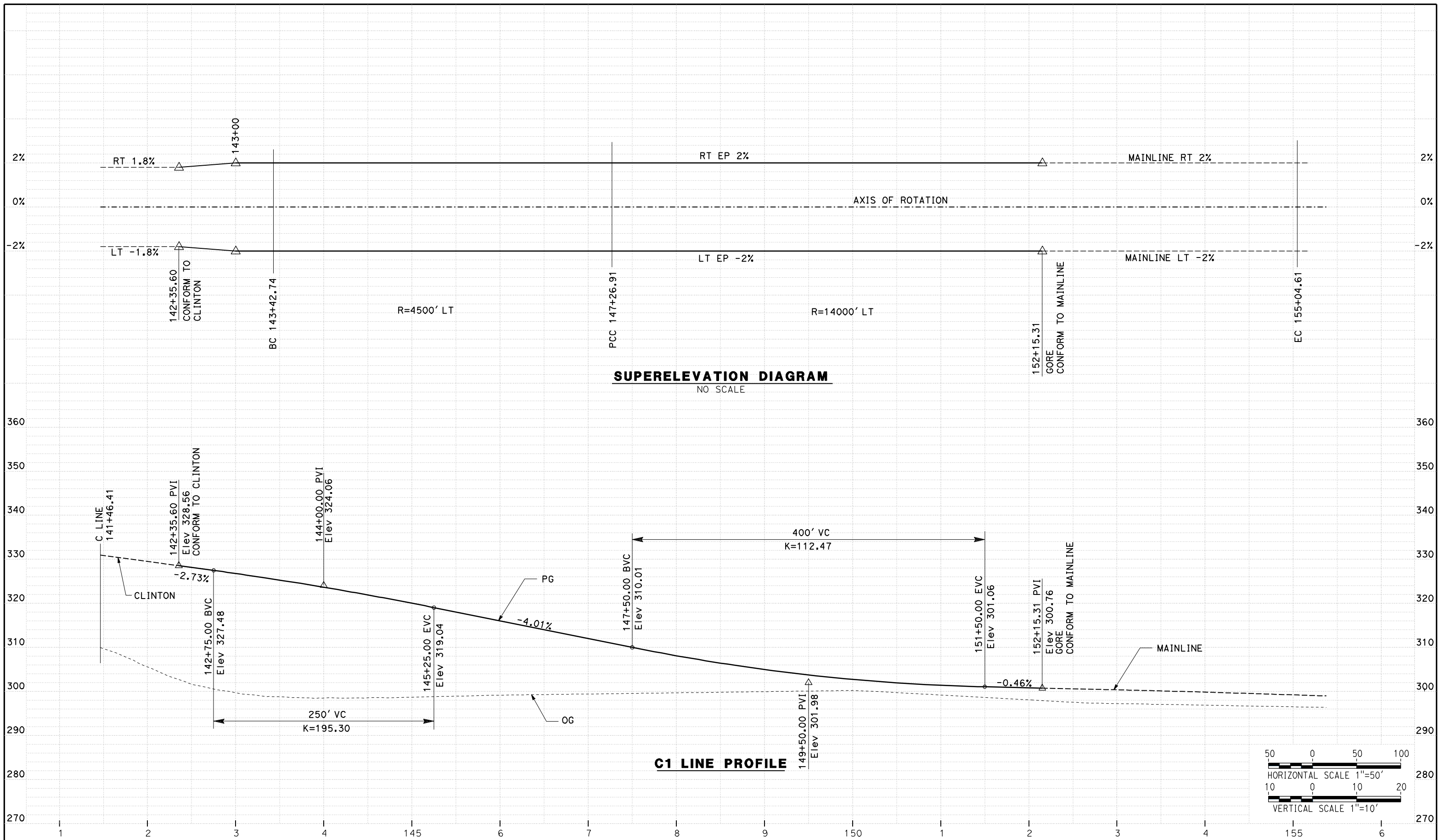


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
 DRAWING NO.
P-11
 SCALE
AS SHOWN
 SHEET NO.



DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

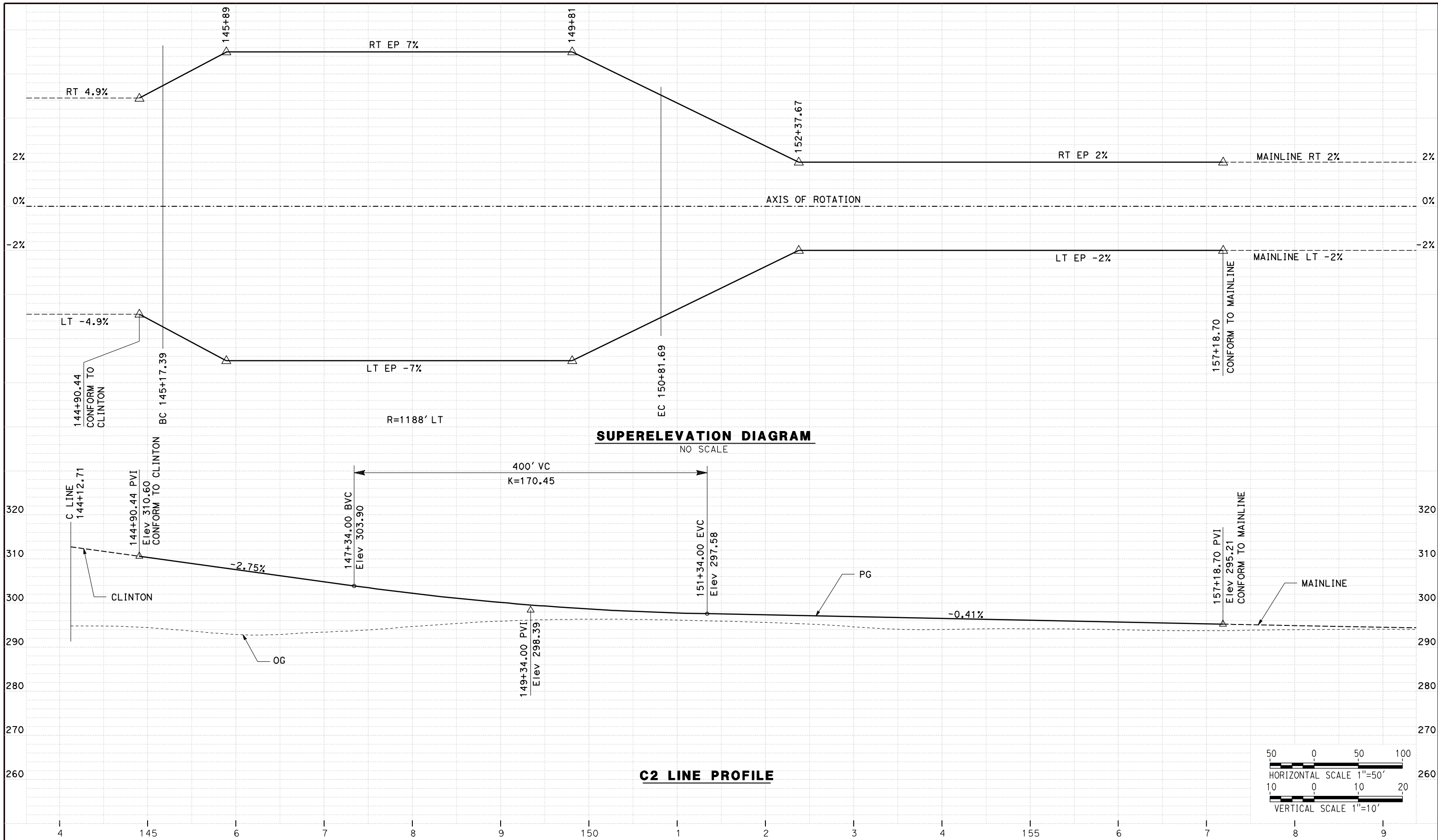
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-12
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
L. ROS
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

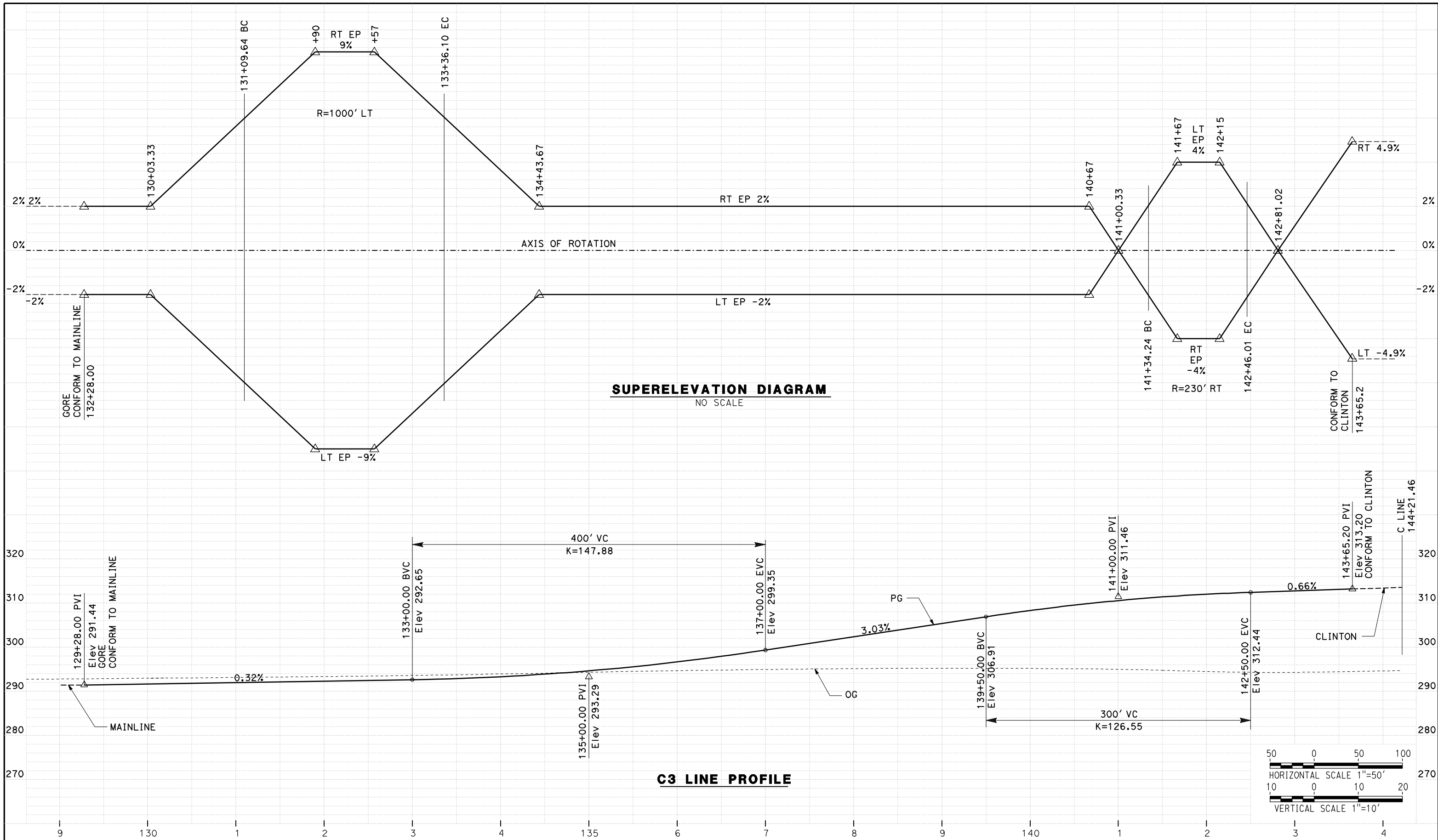
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
 DRAWING NO.
P-13
 SCALE
AS SHOWN
 SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

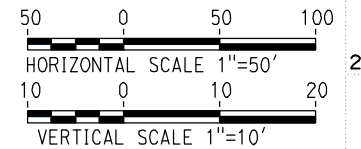
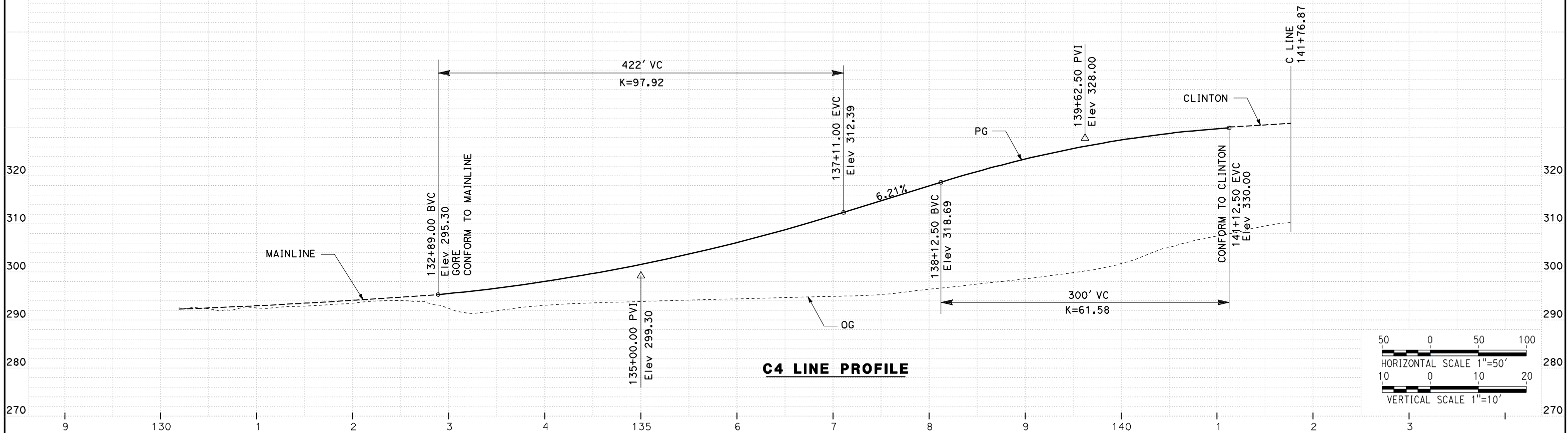
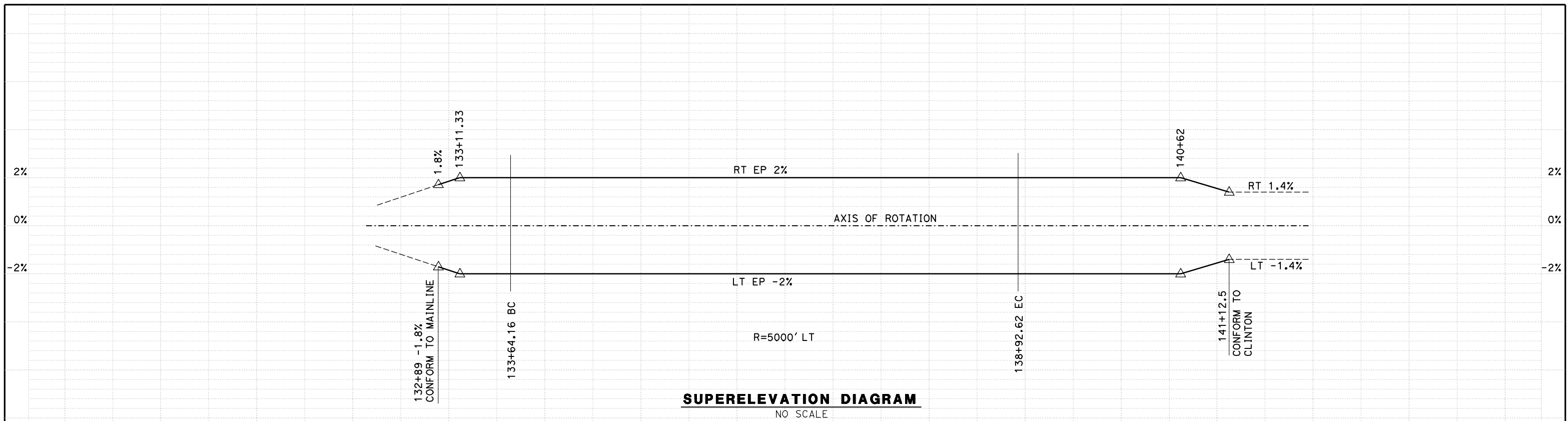
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-14
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

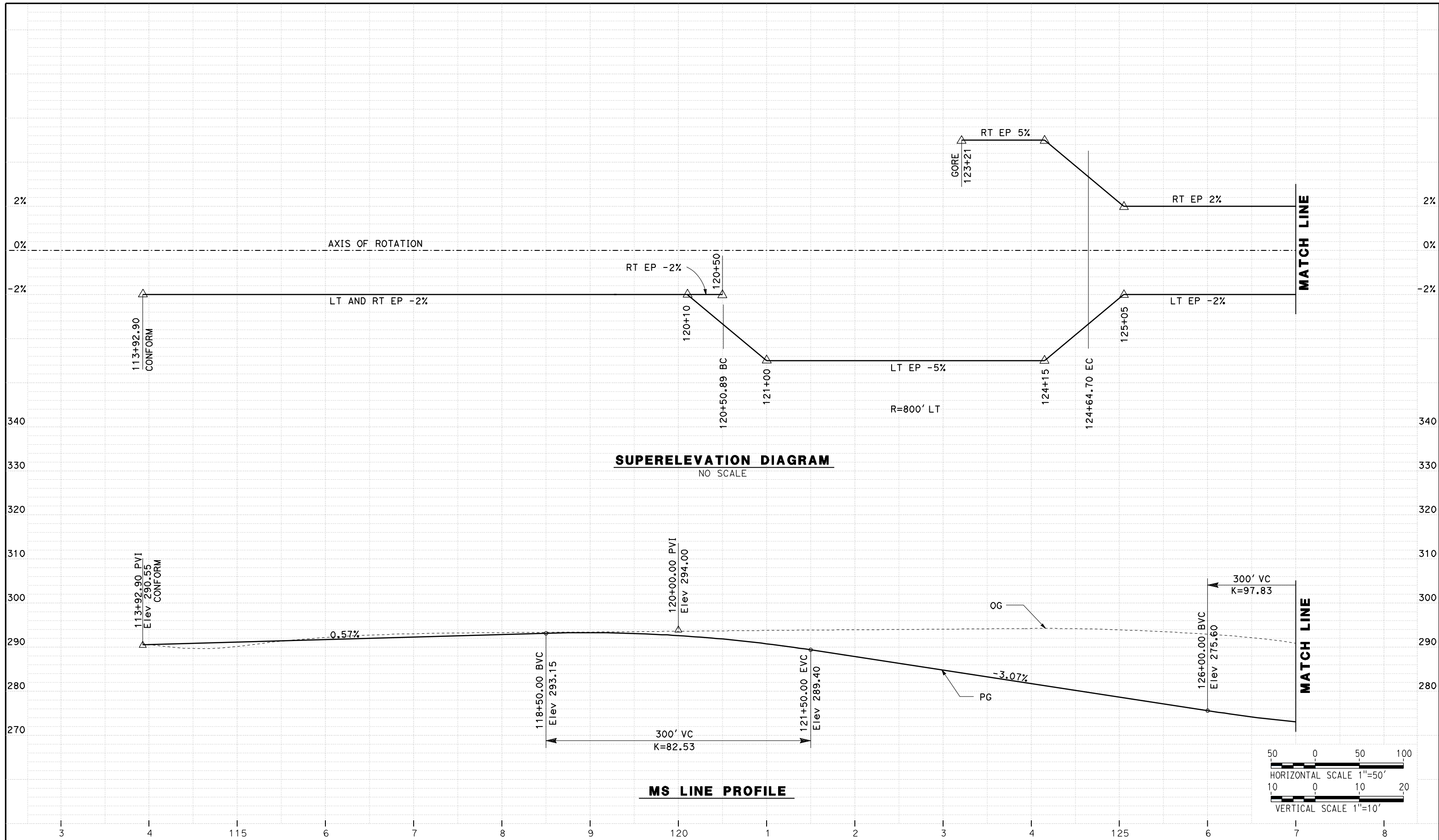
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-15
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

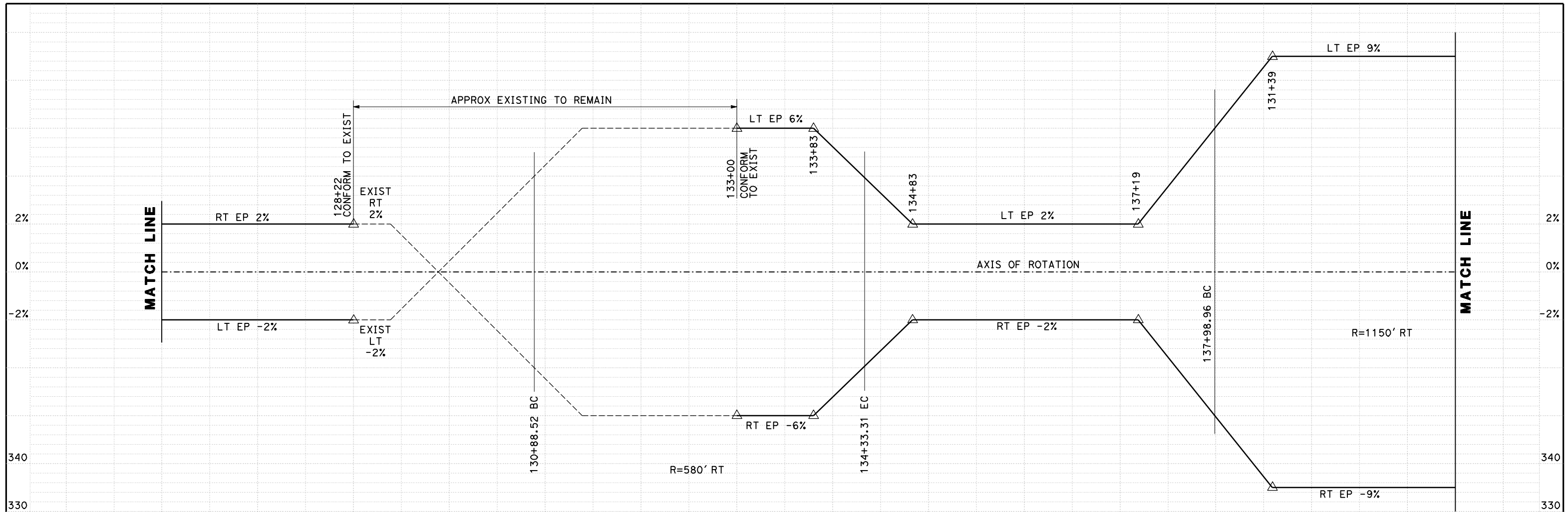
NOT FOR
CONSTRUCTION



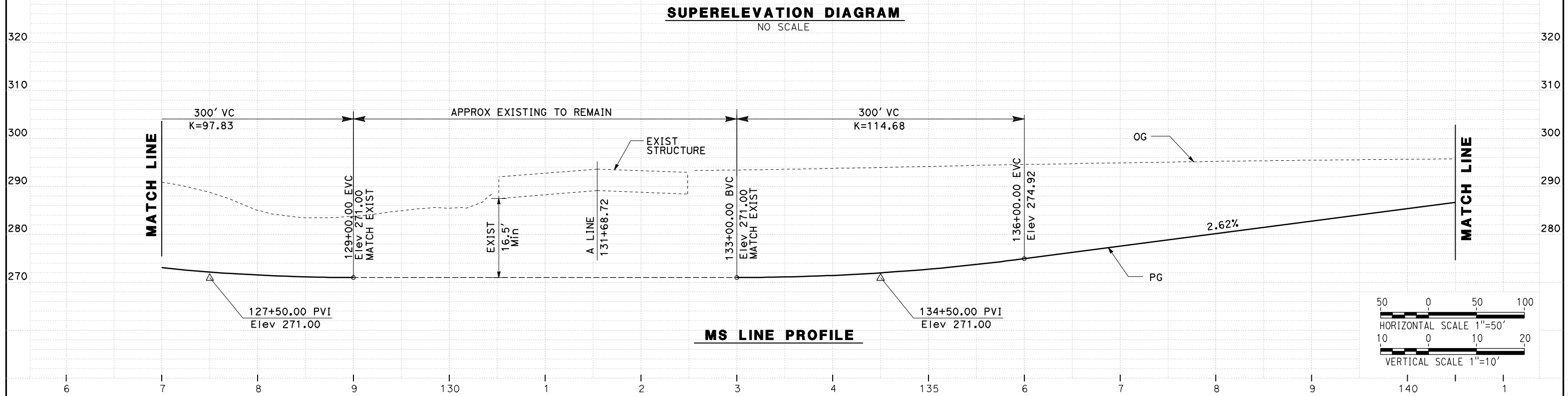
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-16
SCALE
AS SHOWN
SHEET NO.

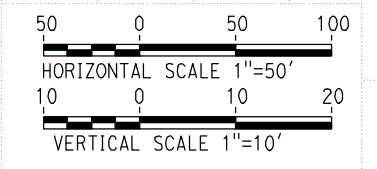
DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM
NO SCALE



MS LINE PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

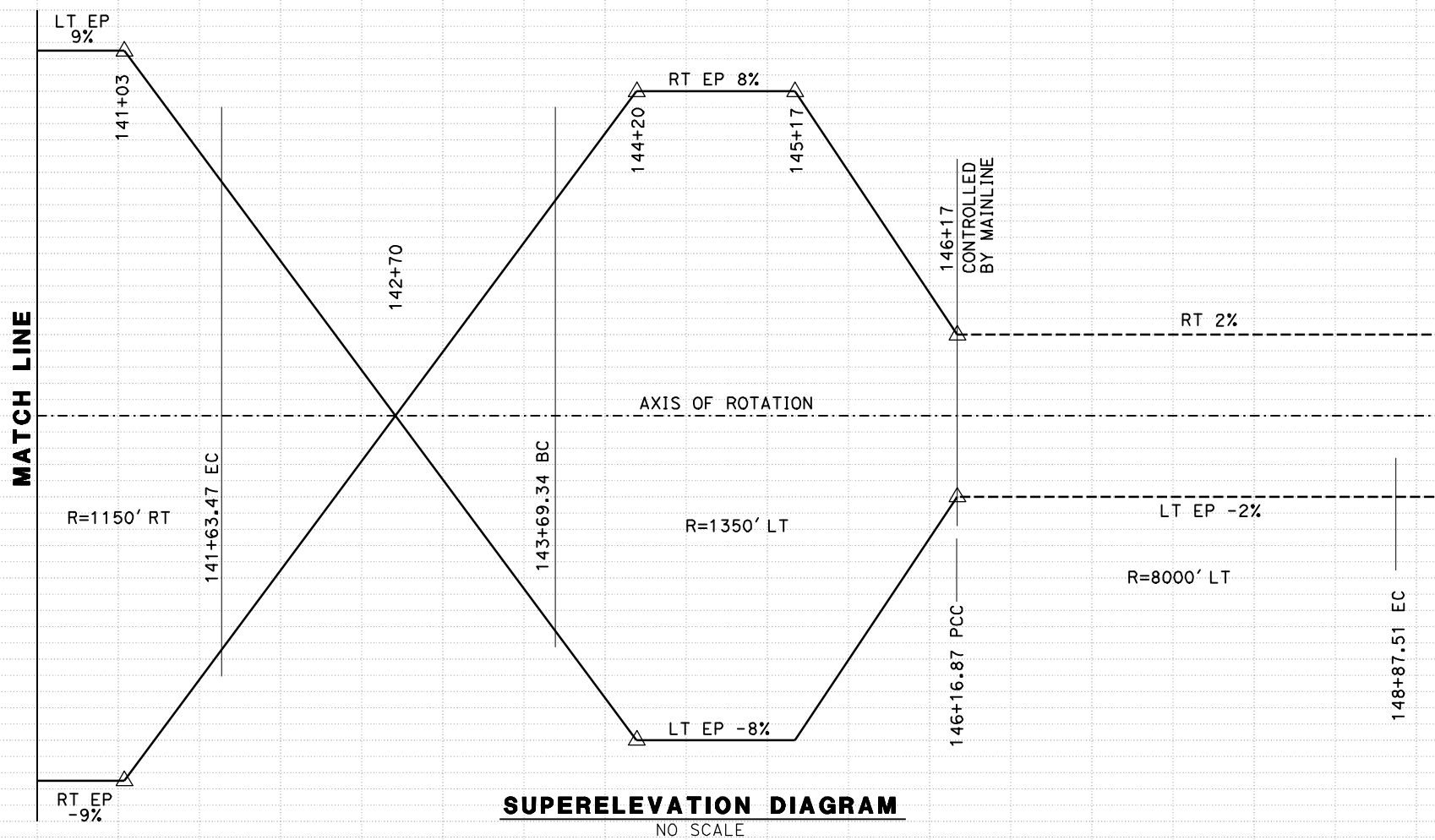
NOT FOR
CONSTRUCTION



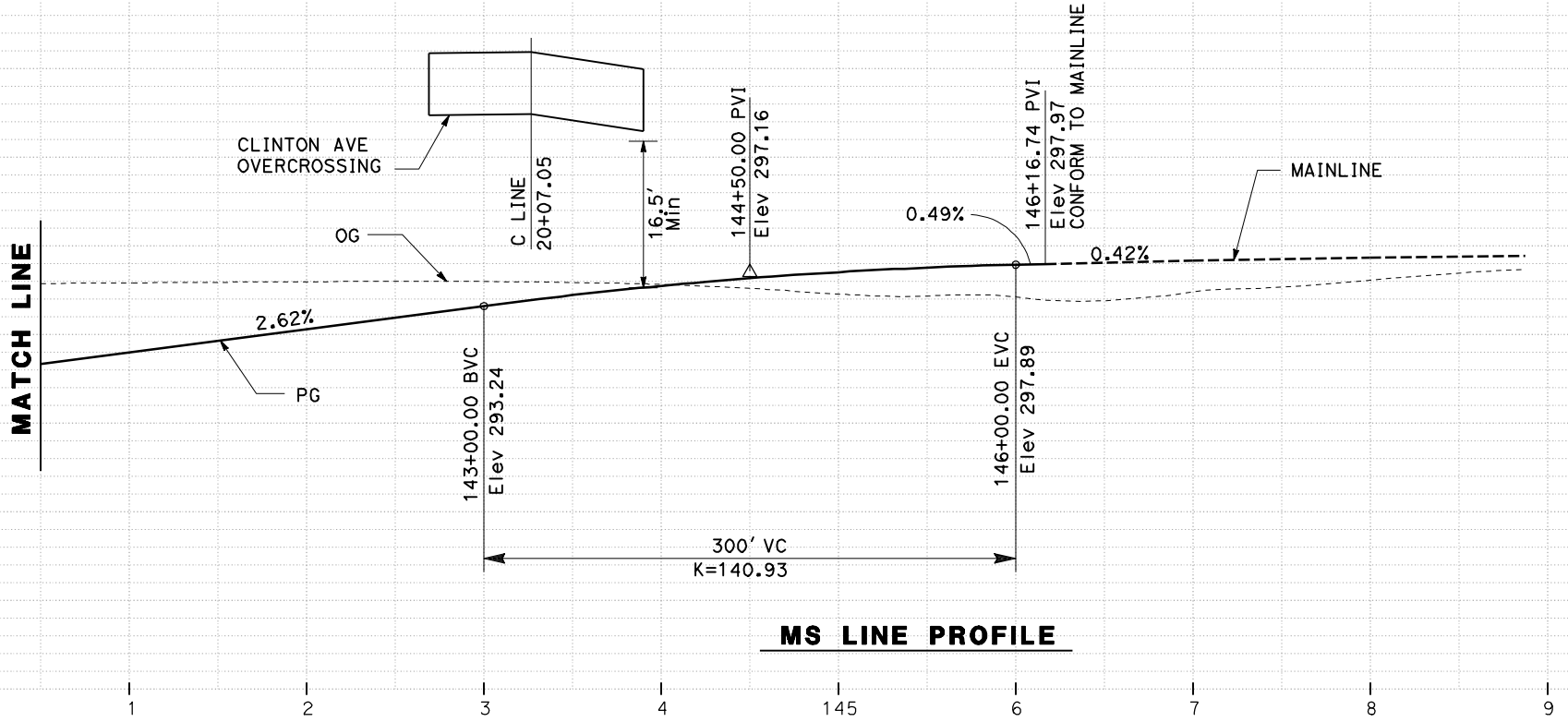
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-17
SCALE
AS SHOWN
SHEET NO.

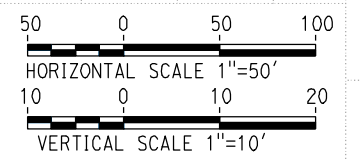
DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM
NO SCALE



MS LINE PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

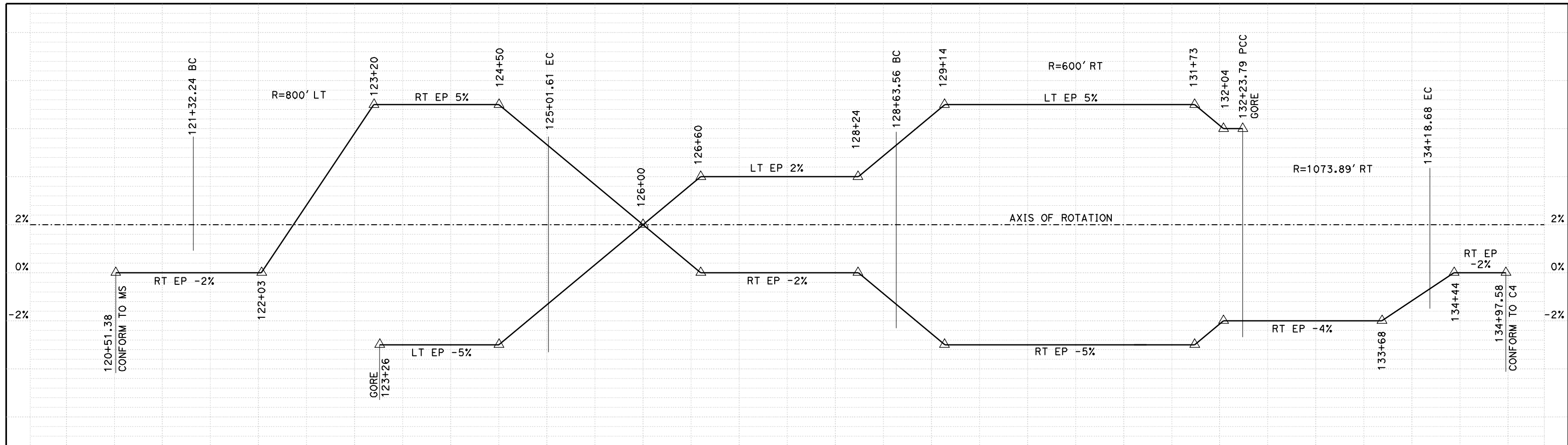
CONTRACT NO.
HSR06-007

DRAWING NO.
P-18

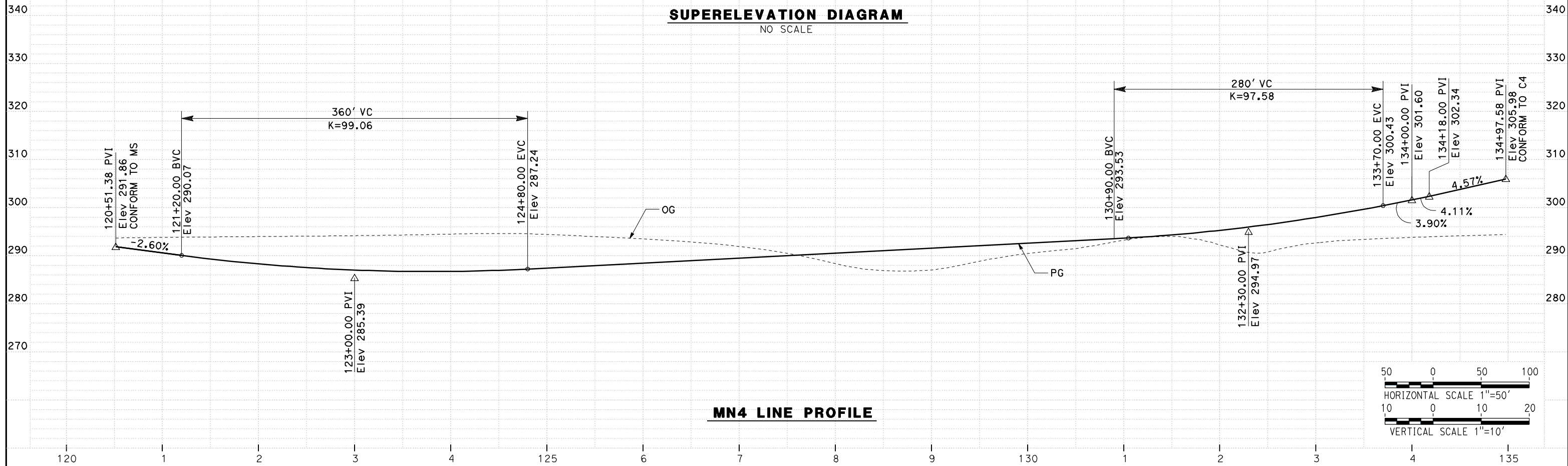
SCALE
AS SHOWN

SHEET NO.

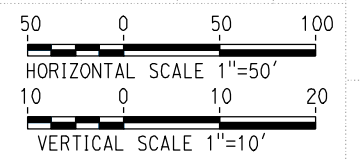
DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM
NO SCALE



MN4 LINE PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

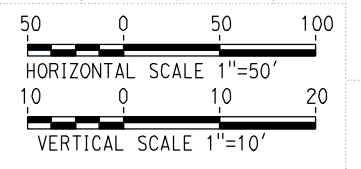
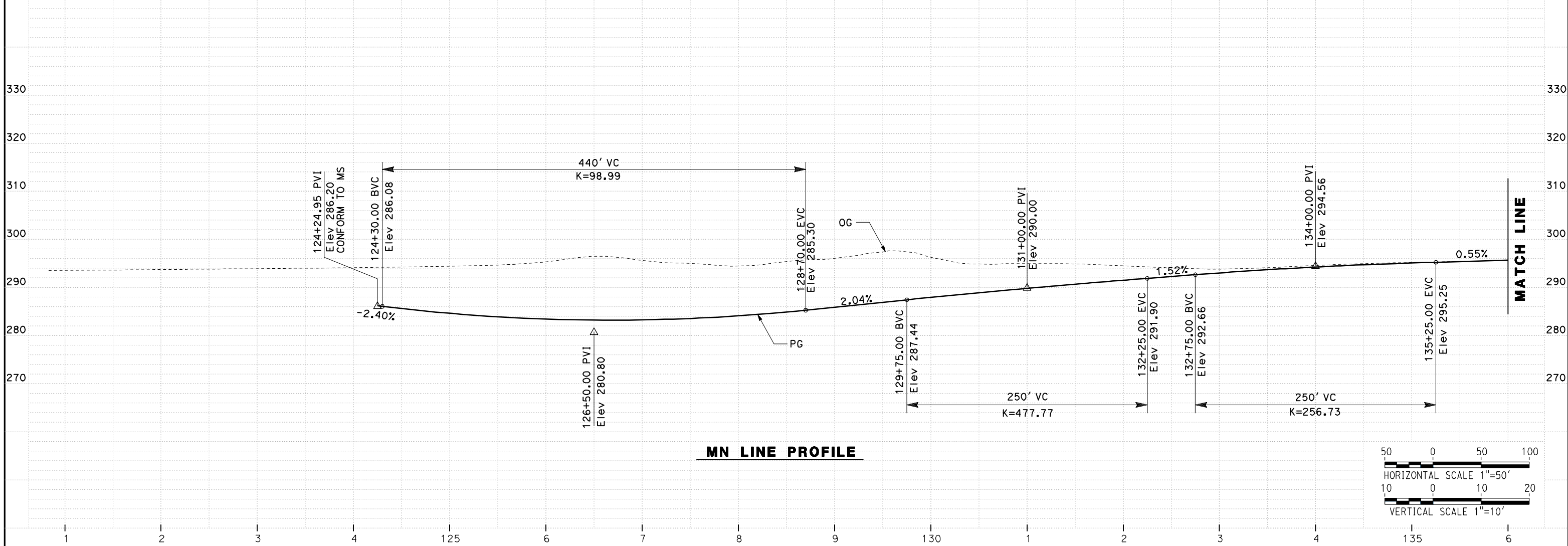
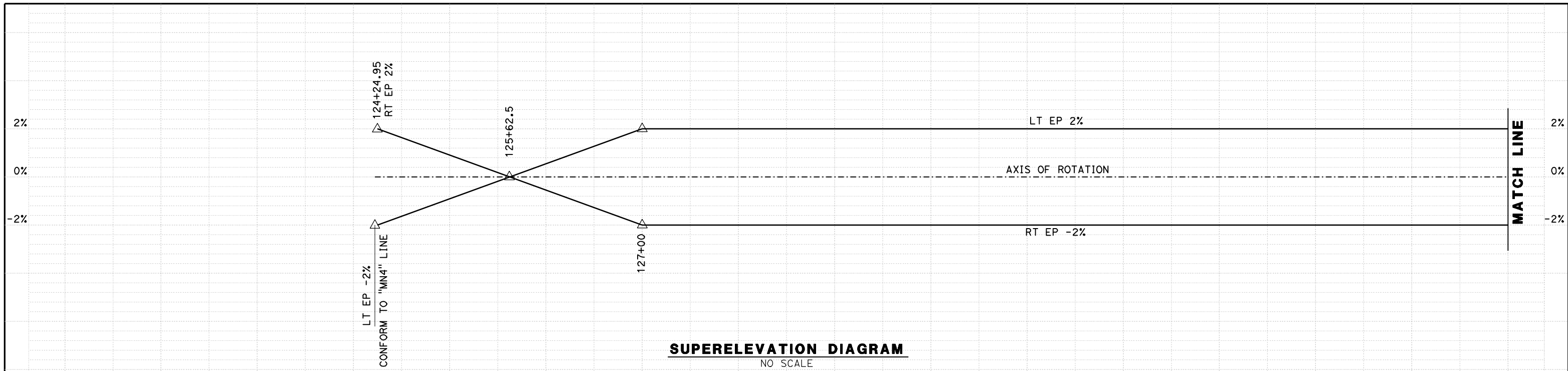
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-19
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

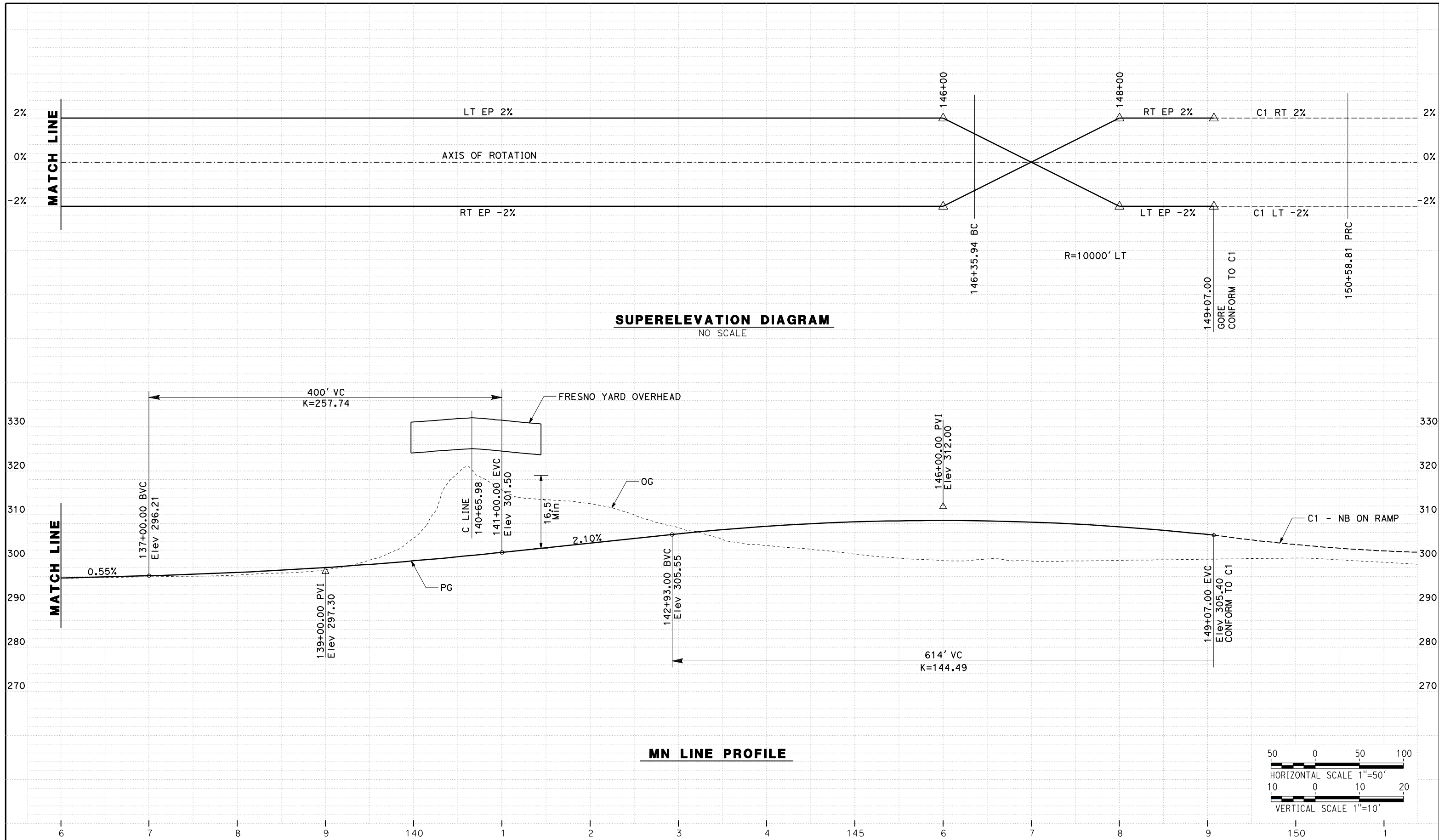
CONTRACT NO.
HSR06-007

DRAWING NO.
P-20

SCALE
AS SHOWN

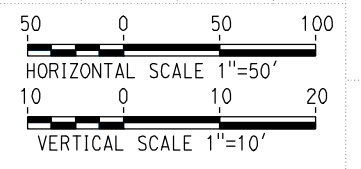
SHEET NO.

DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM
NO SCALE

MN LINE PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

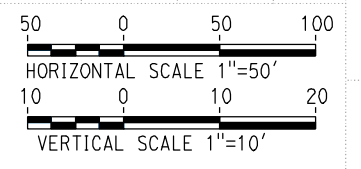
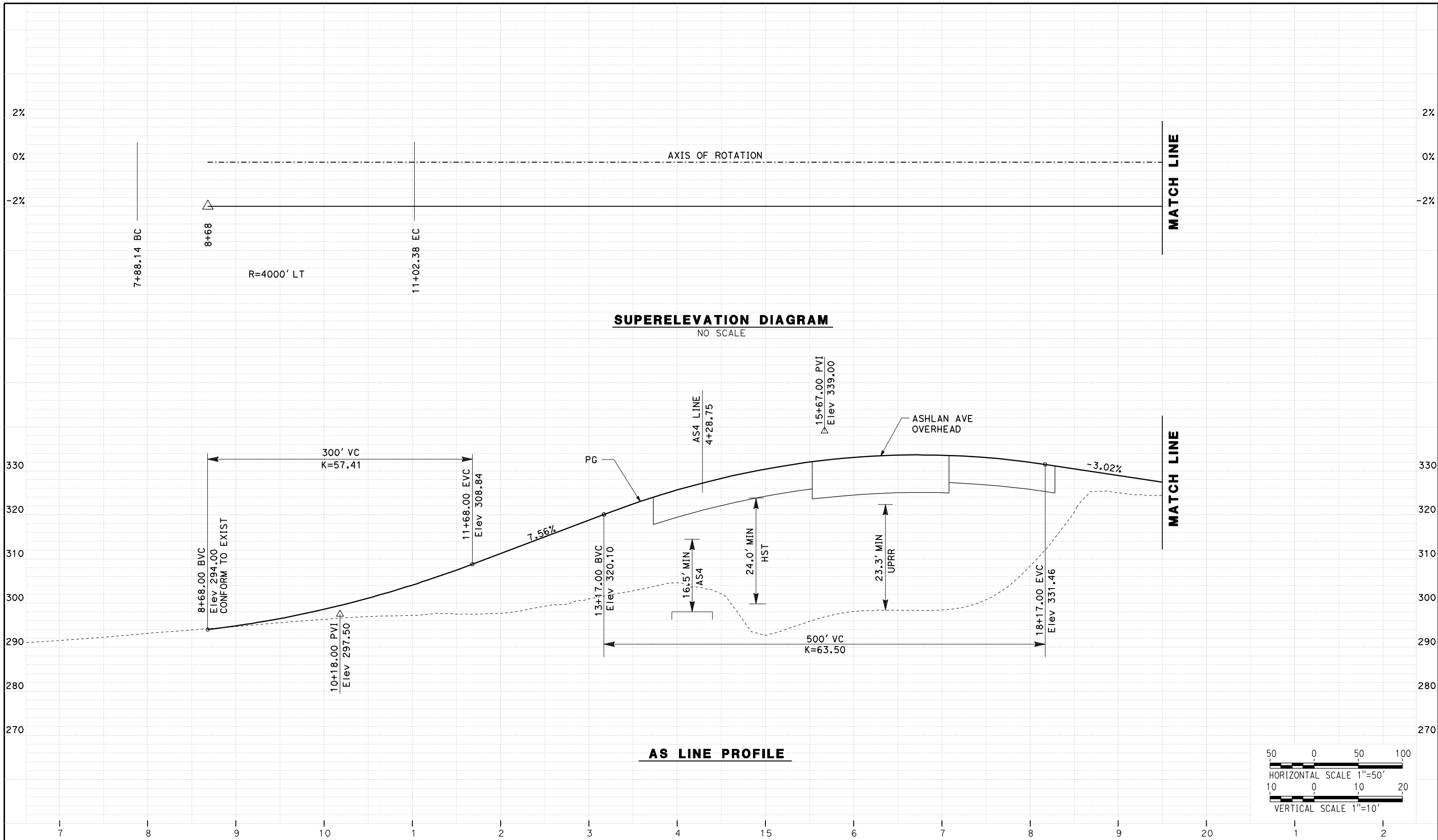
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-21
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

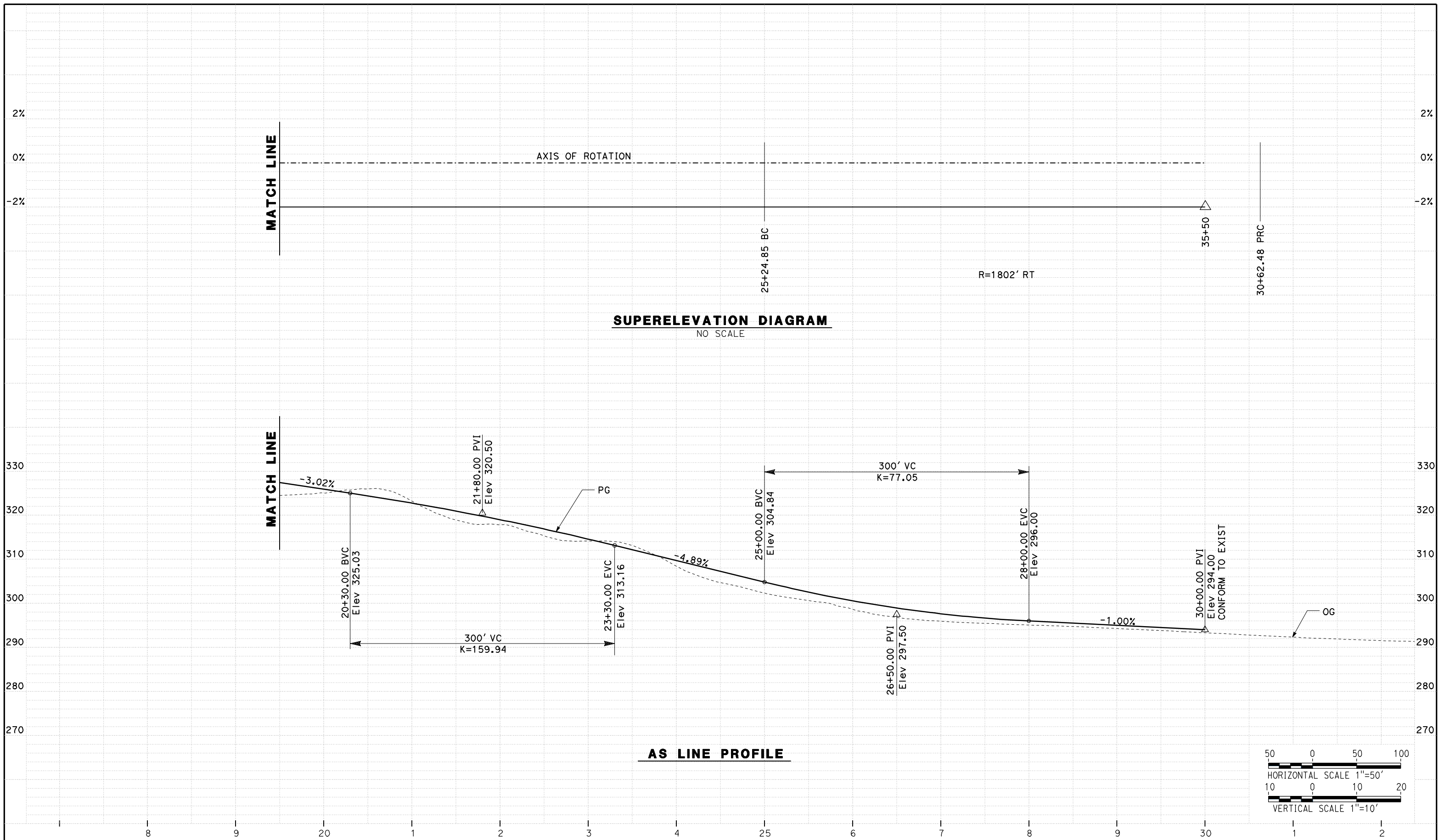
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-22
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
 DRAWN BY
L. ROS
 CHECKED BY
L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
 Technical Services, Inc.
 2020 L Street, Suite 300
 Sacramento, CA 95811

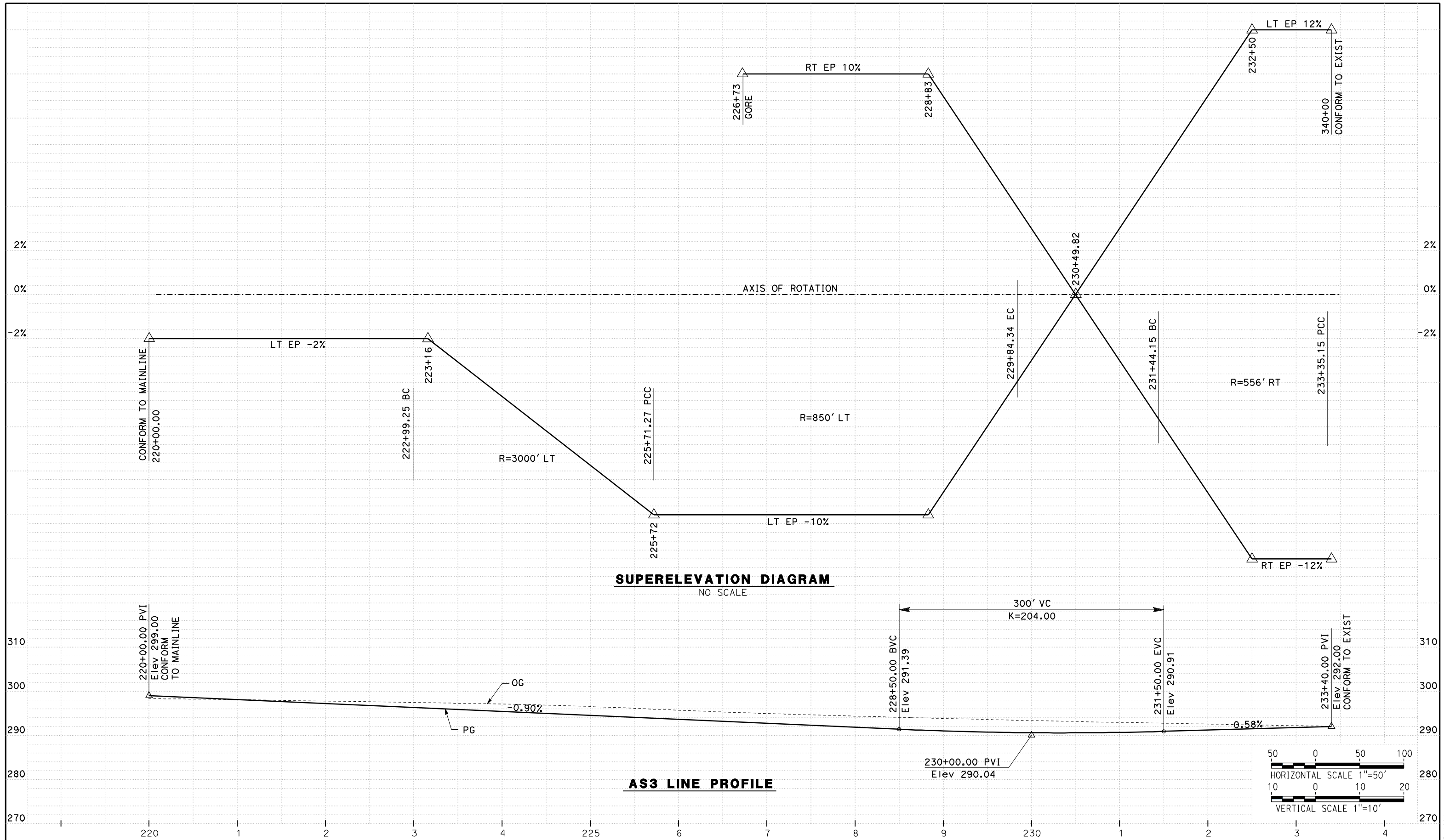
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CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
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P-23
 SCALE
AS SHOWN
 SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
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SUBMITTAL

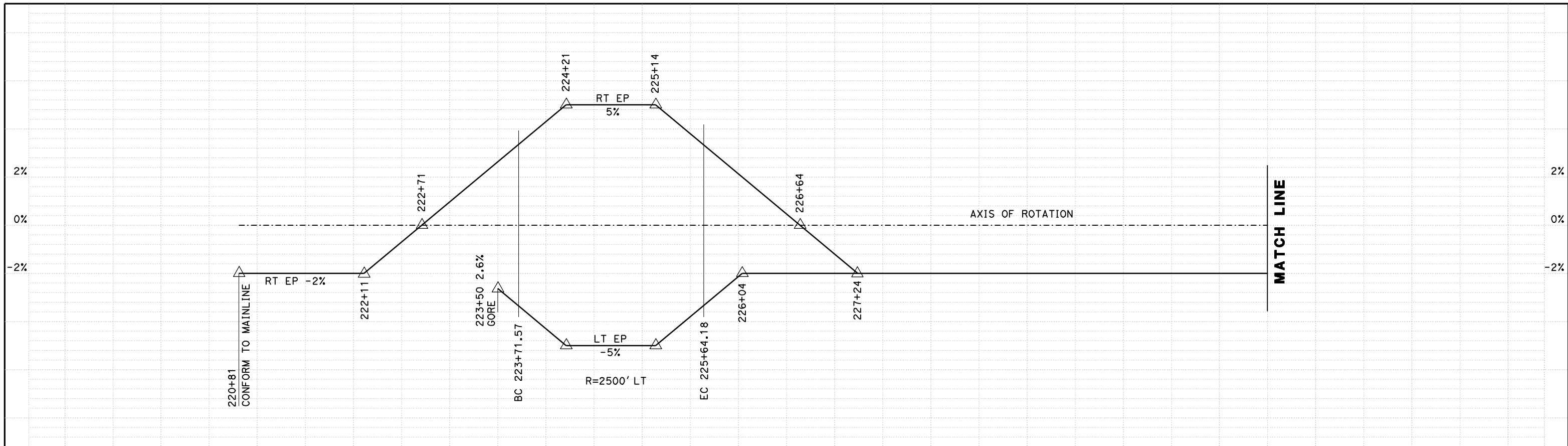
NOT FOR
CONSTRUCTION



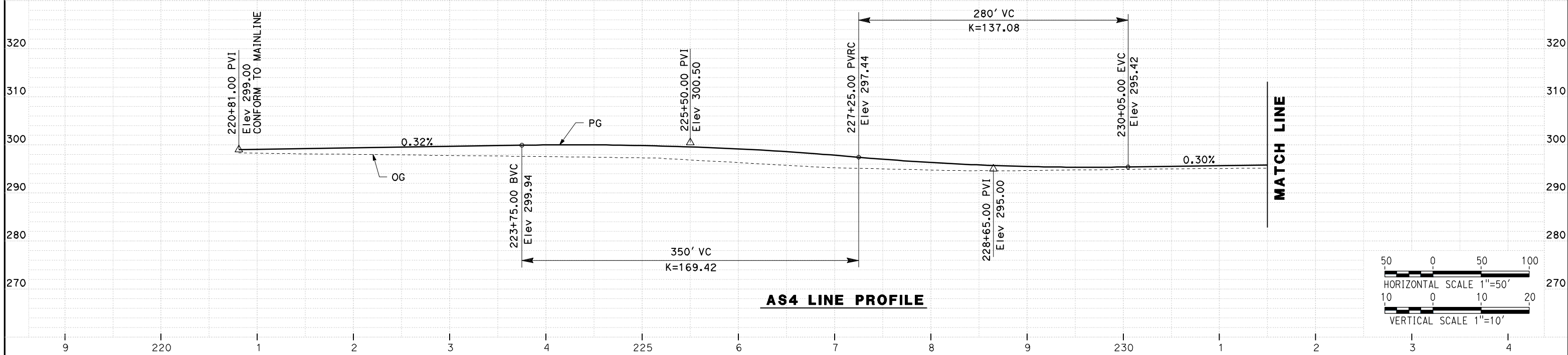
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-24
SCALE
AS SHOWN
SHEET NO.

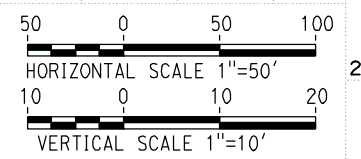
DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM
NO SCALE



AS4 LINE PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

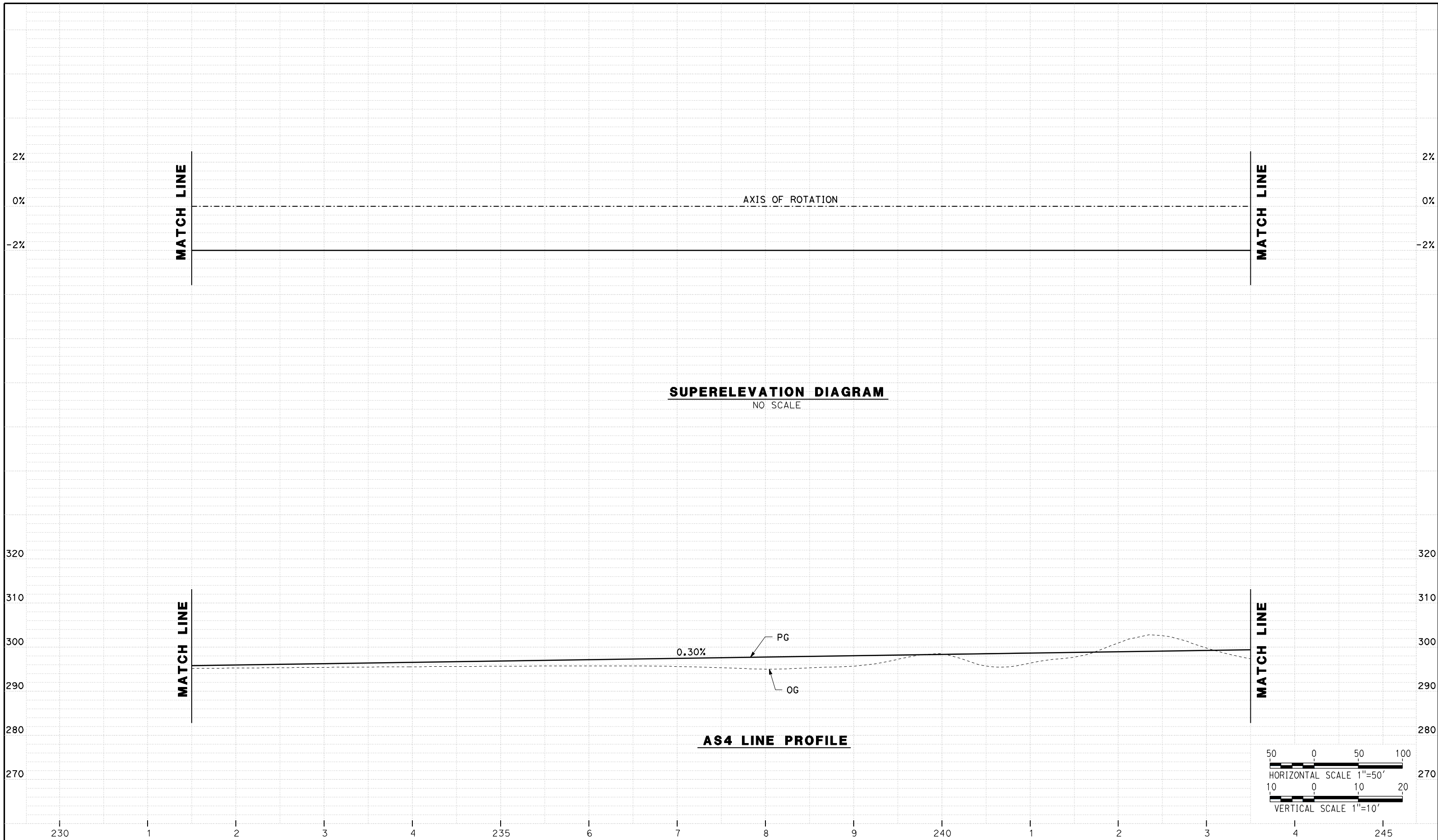
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-25
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

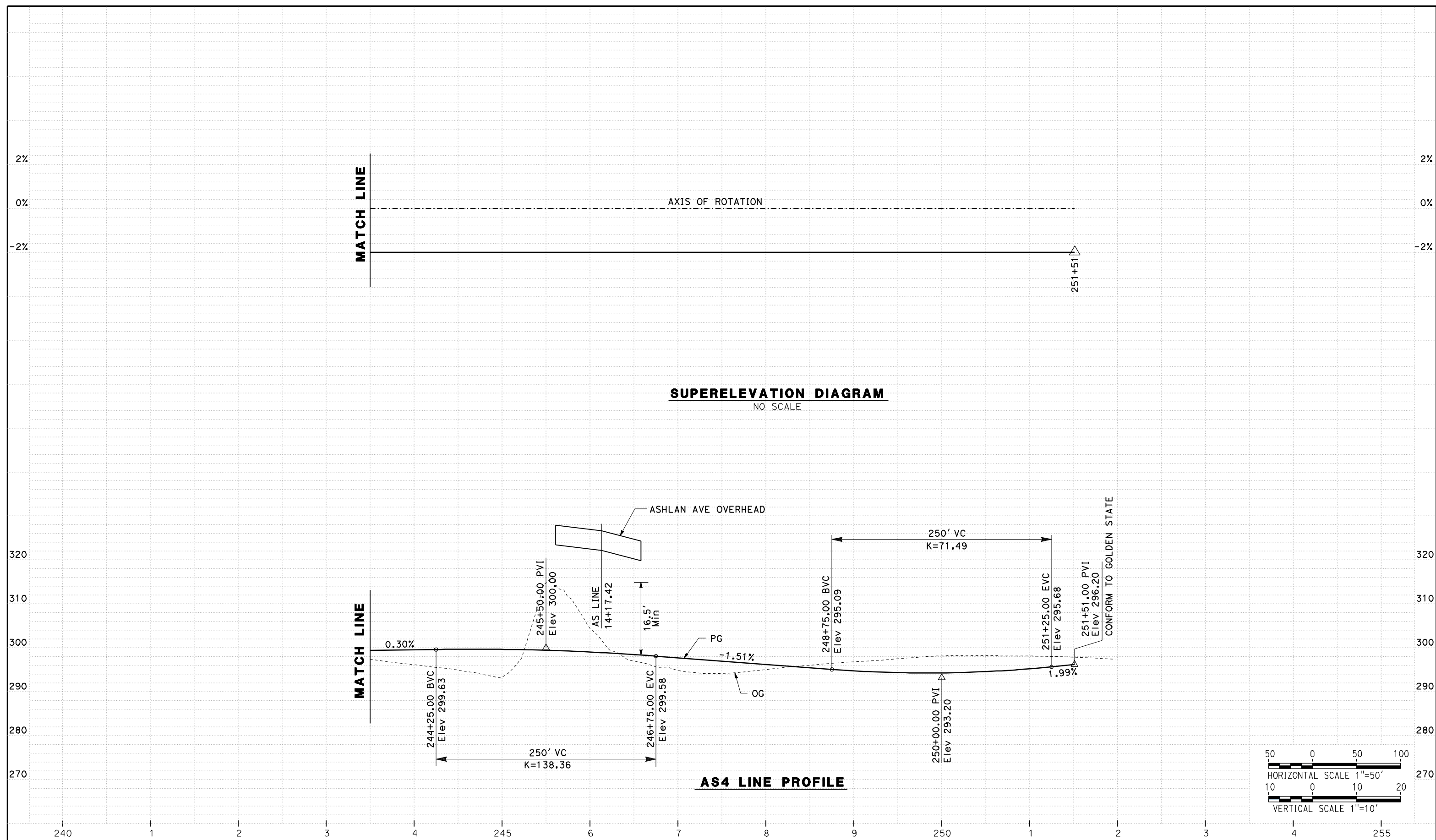
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-26
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK

DRAWN BY
L. ROS

CHECKED BY
L. HEUSTON

IN CHARGE
J. MATSUI-DRURY

DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007

DRAWING NO.
P-27

SCALE
AS SHOWN


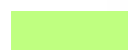
SHEET NO.

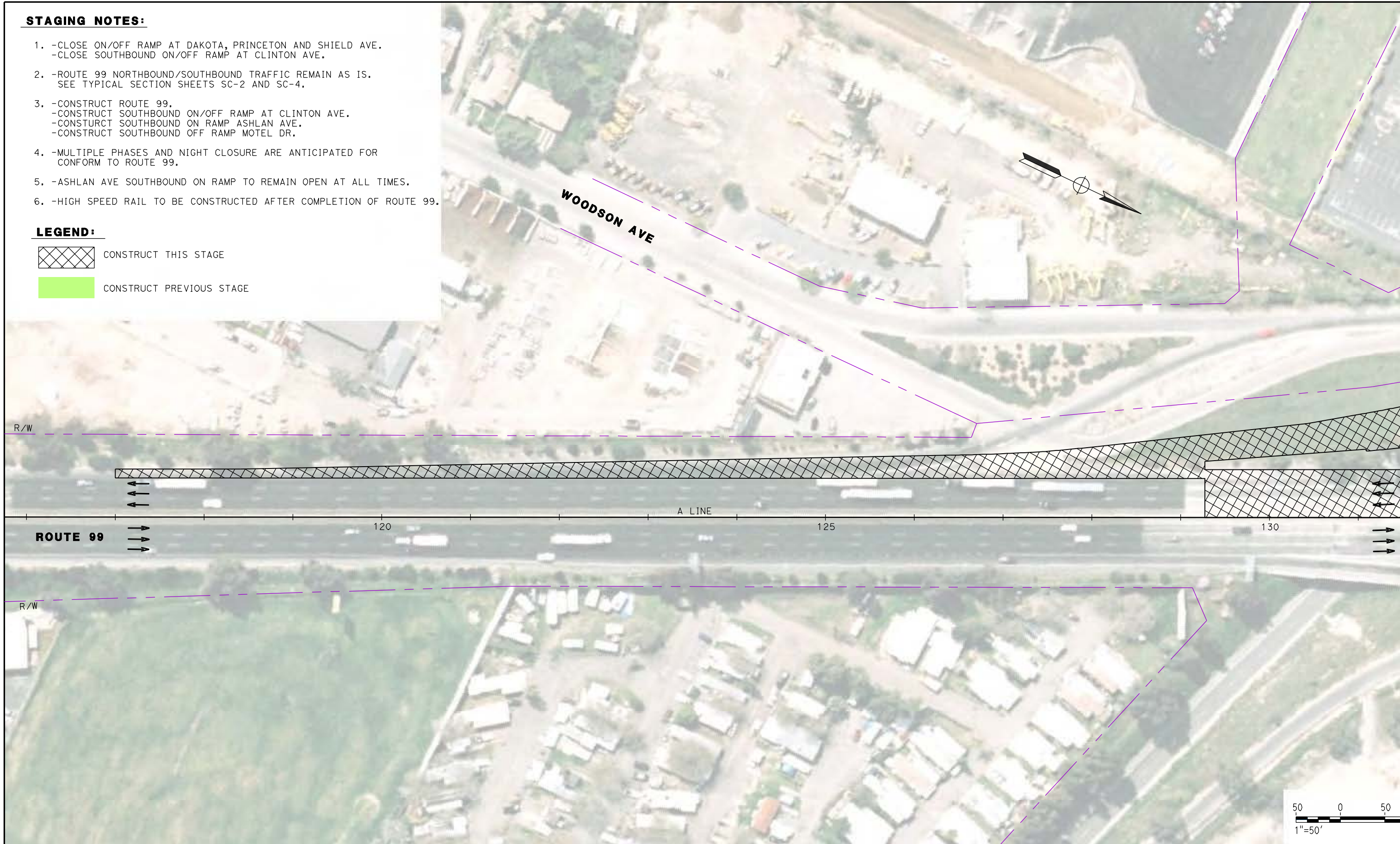
DATE PLOTTED => 26-APR-2011

STAGING NOTES:

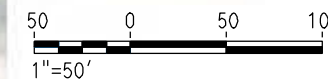
1. -CLOSE ON/OFF RAMP AT DAKOTA, PRINCETON AND SHIELD AVE.
-CLOSE SOUTHBOUND ON/OFF RAMP AT CLINTON AVE.
2. -ROUTE 99 NORTHBOUND/SOUTHBOUND TRAFFIC REMAIN AS IS.
SEE TYPICAL SECTION SHEETS SC-2 AND SC-4.
3. -CONSTRUCT ROUTE 99.
-CONSTRUCT SOUTHBOUND ON/OFF RAMP AT CLINTON AVE.
-CONSTRUCT SOUTHBOUND ON RAMP ASHLAN AVE.
-CONSTRUCT SOUTHBOUND OFF RAMP MOTEL DR.
4. -MULTIPLE PHASES AND NIGHT CLOSURE ARE ANTICIPATED FOR
CONFORM TO ROUTE 99.
5. -ASHLAN AVE SOUTHBOUND ON RAMP TO REMAIN OPEN AT ALL TIMES.
6. -HIGH SPEED RAIL TO BE CONSTRUCTED AFTER COMPLETION OF ROUTE 99.

LEGEND:

-  CONSTRUCT THIS STAGE
-  CONSTRUCT PREVIOUS STAGE



MATCH LINE - SEE SHEET SC-2



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

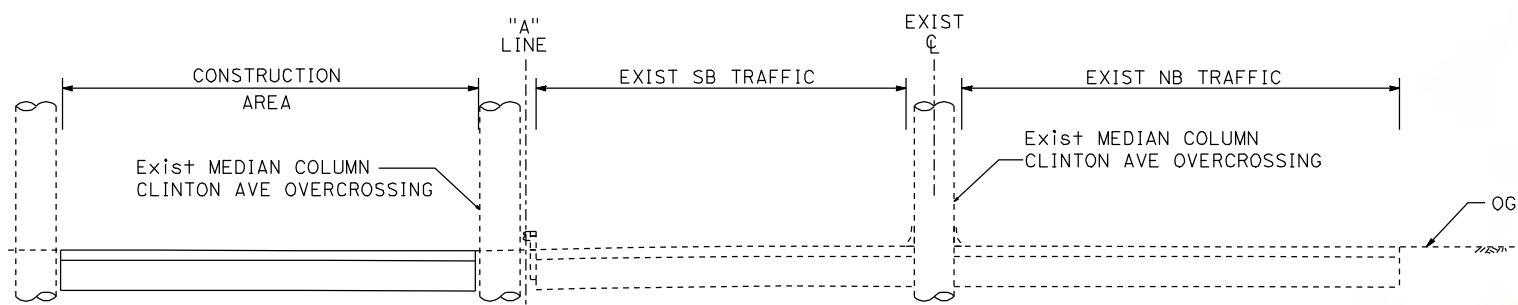
NOT FOR
CONSTRUCTION



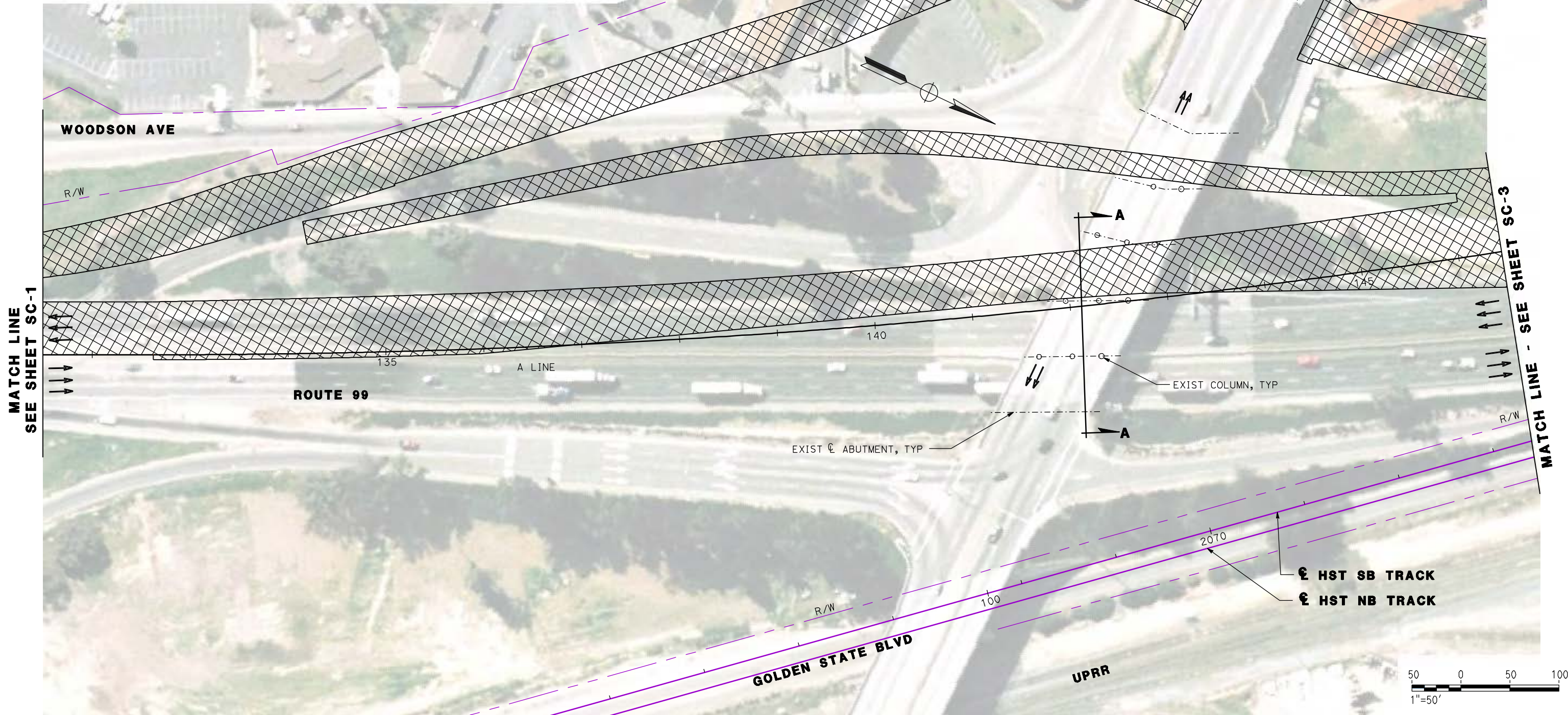
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-1
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11



**SECTION A-A
ROUTE 99 AT CLINTON AVE**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION**

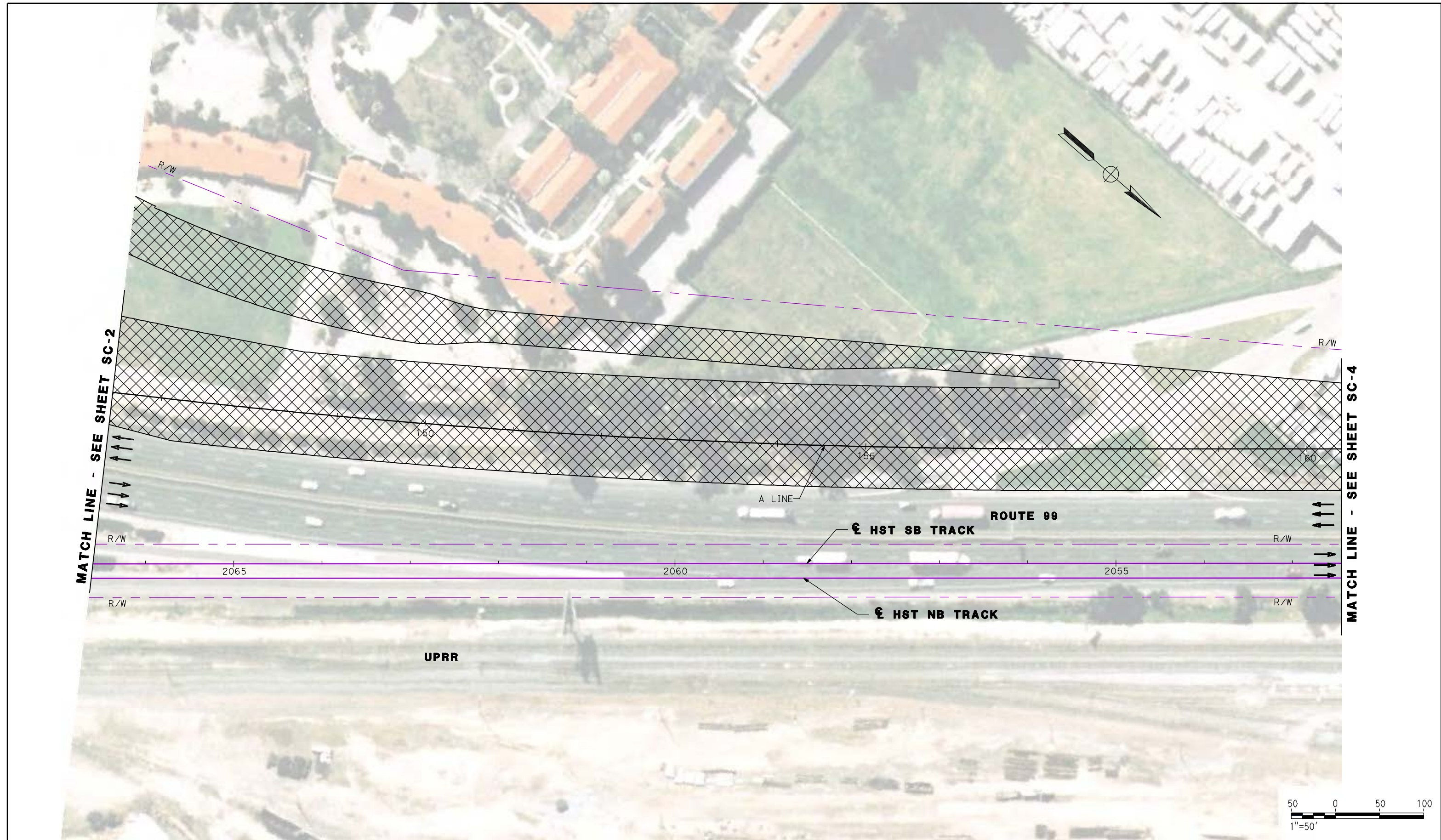
CONTRACT NO.
HSR06-007

DRAWING NO.
SC-2

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED: 23-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 G. MANOREK
 DRAWN BY
 L. ROS
 CHECKED BY
 L. HEUSTON
 IN CHARGE
 J. MATSUI-DRURY
 DATE
 04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

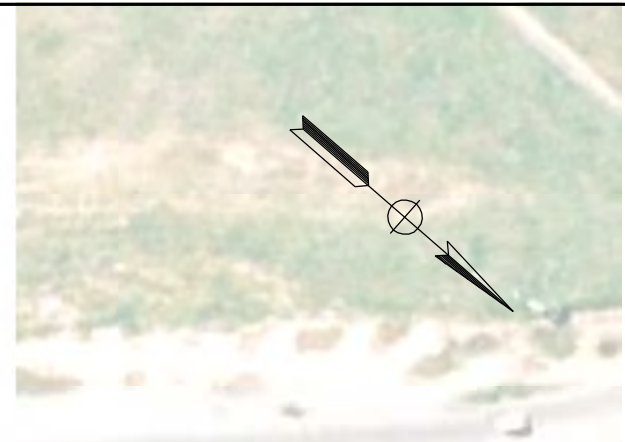
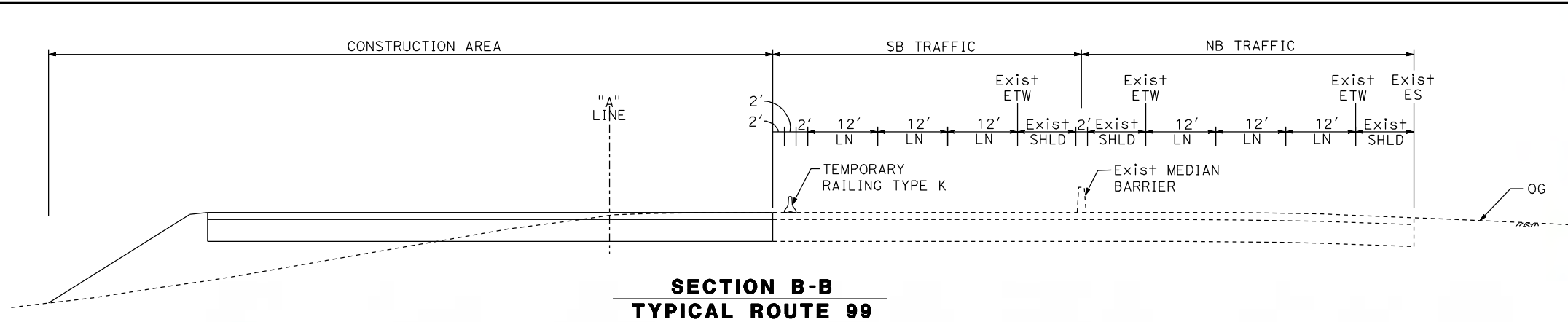
NOT FOR
CONSTRUCTION



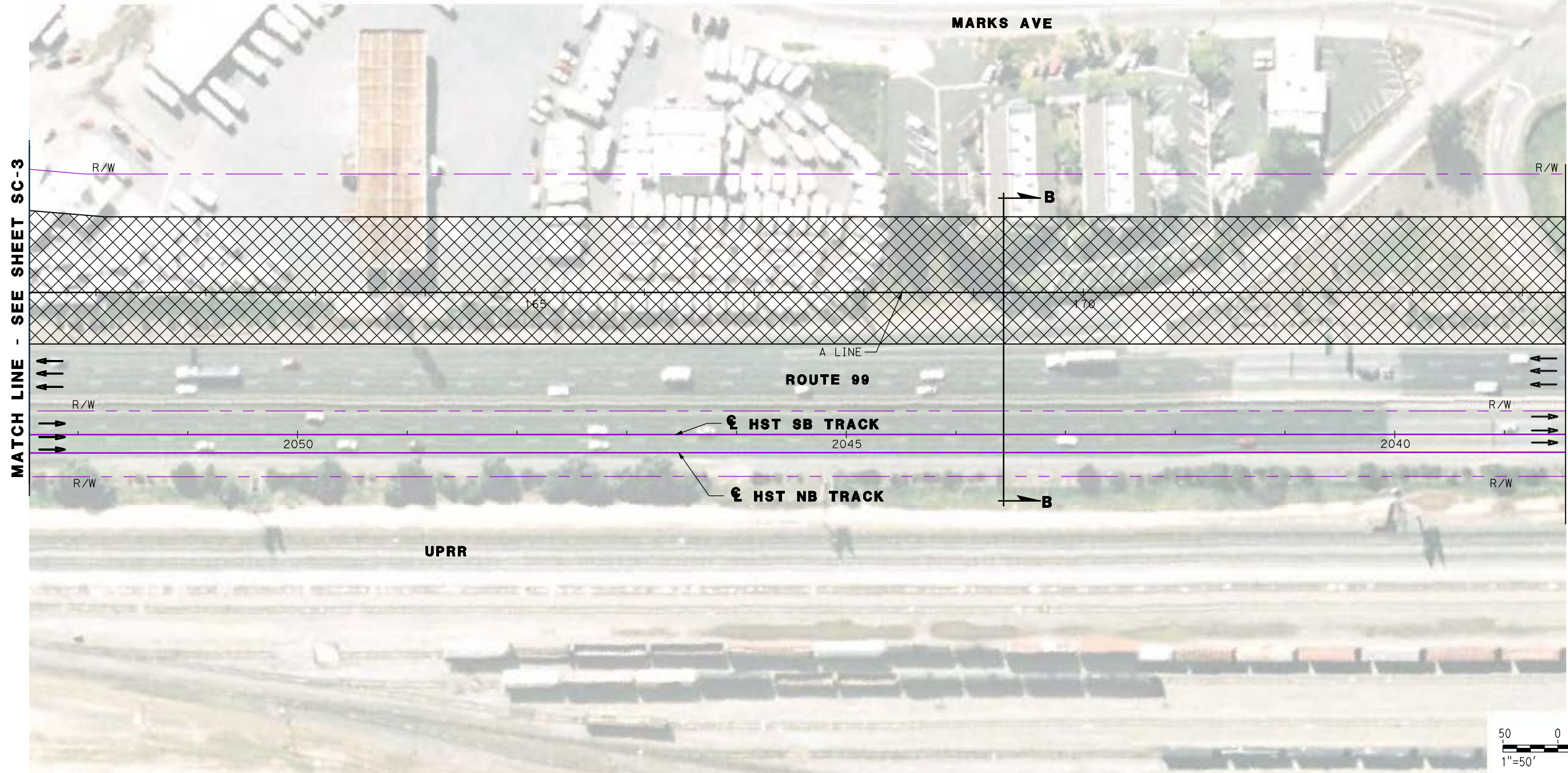
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

CONTRACT NO.
 HSR06-007
 DRAWING NO.
SC-3
 SCALE
 AS SHOWN
 SHEET NO.

DATE PLOTTED: 03/26/11



**SECTION B-B
TYPICAL ROUTE 99**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

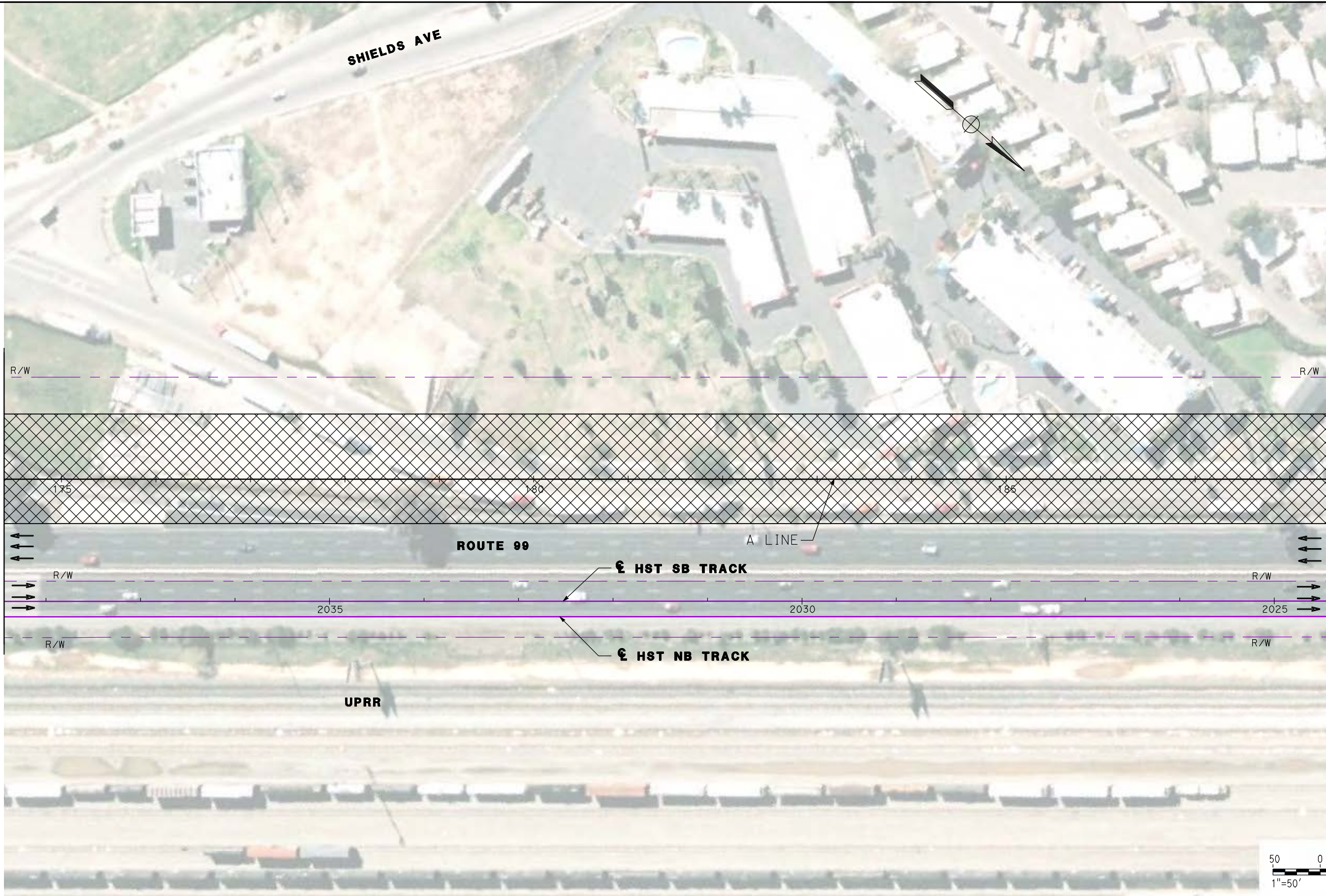
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION**

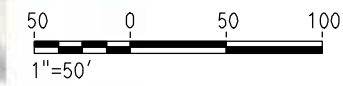
CONTRACT NO.
HSR06-007
DRAWING NO.
SC-4
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



MATCH LINE - SEE SHEET SC-4

MATCH LINE - SEE SHEET SC-6



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

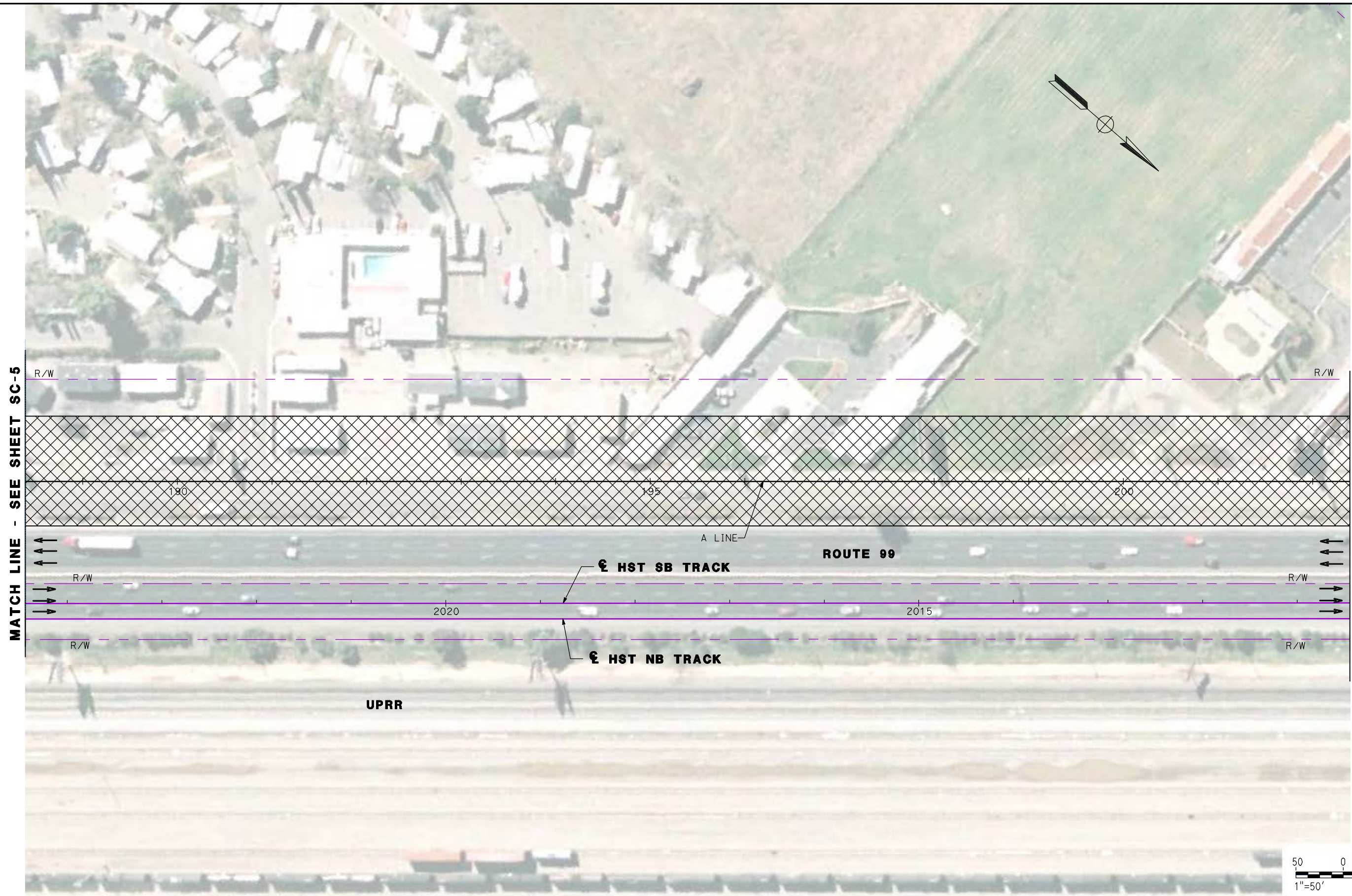
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-5
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



MATCH LINE - SEE SHEET SC-5

MATCH LINE - SEE SHEET SC-7



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

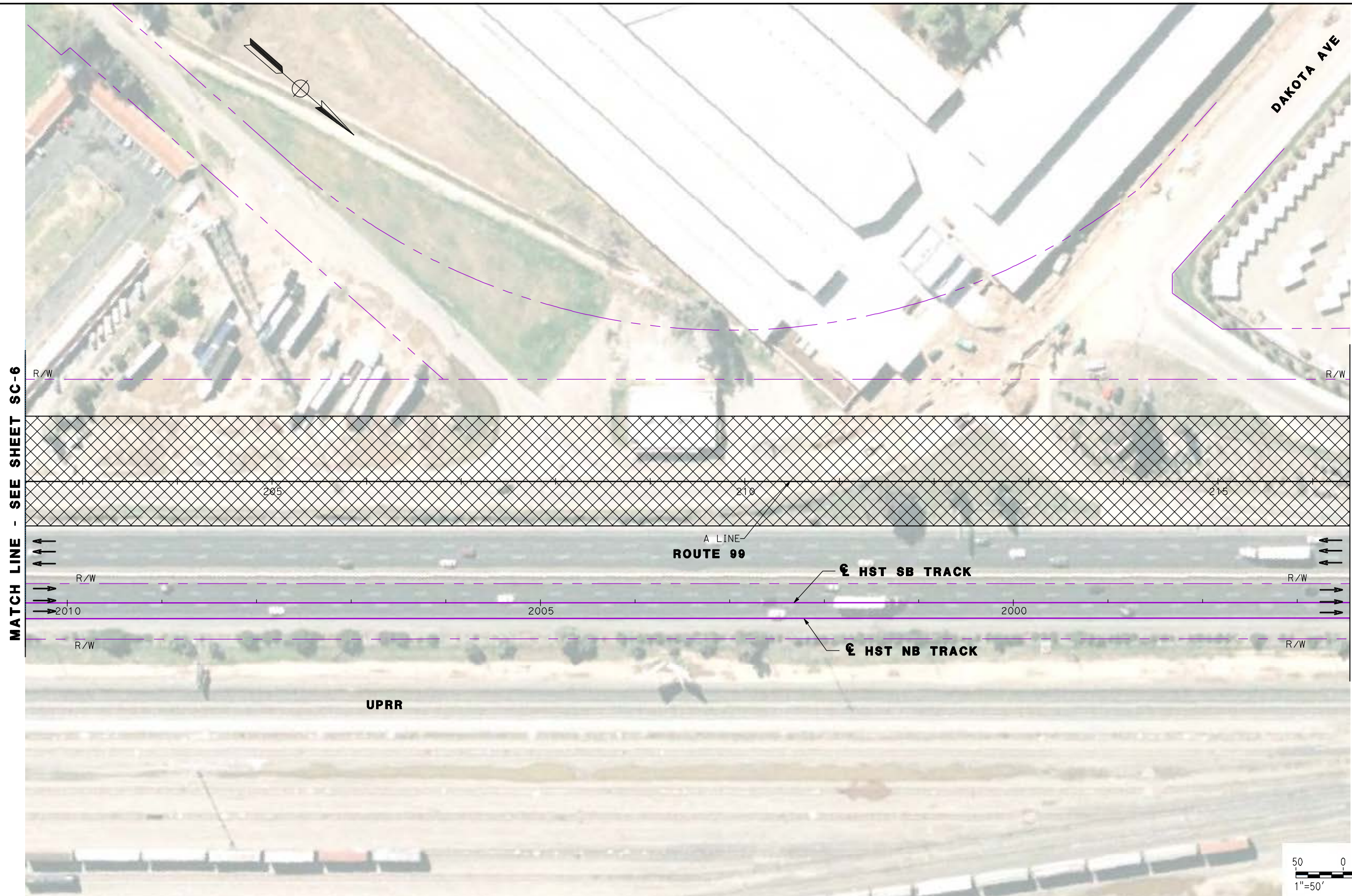
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

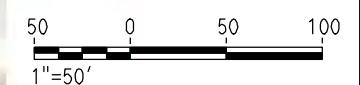
CONTRACT NO.
HSR06-007
DRAWING NO.
SC-6
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



MATCH LINE - SEE SHEET SC-6

MATCH LINE - SEE SHEET SC-8



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

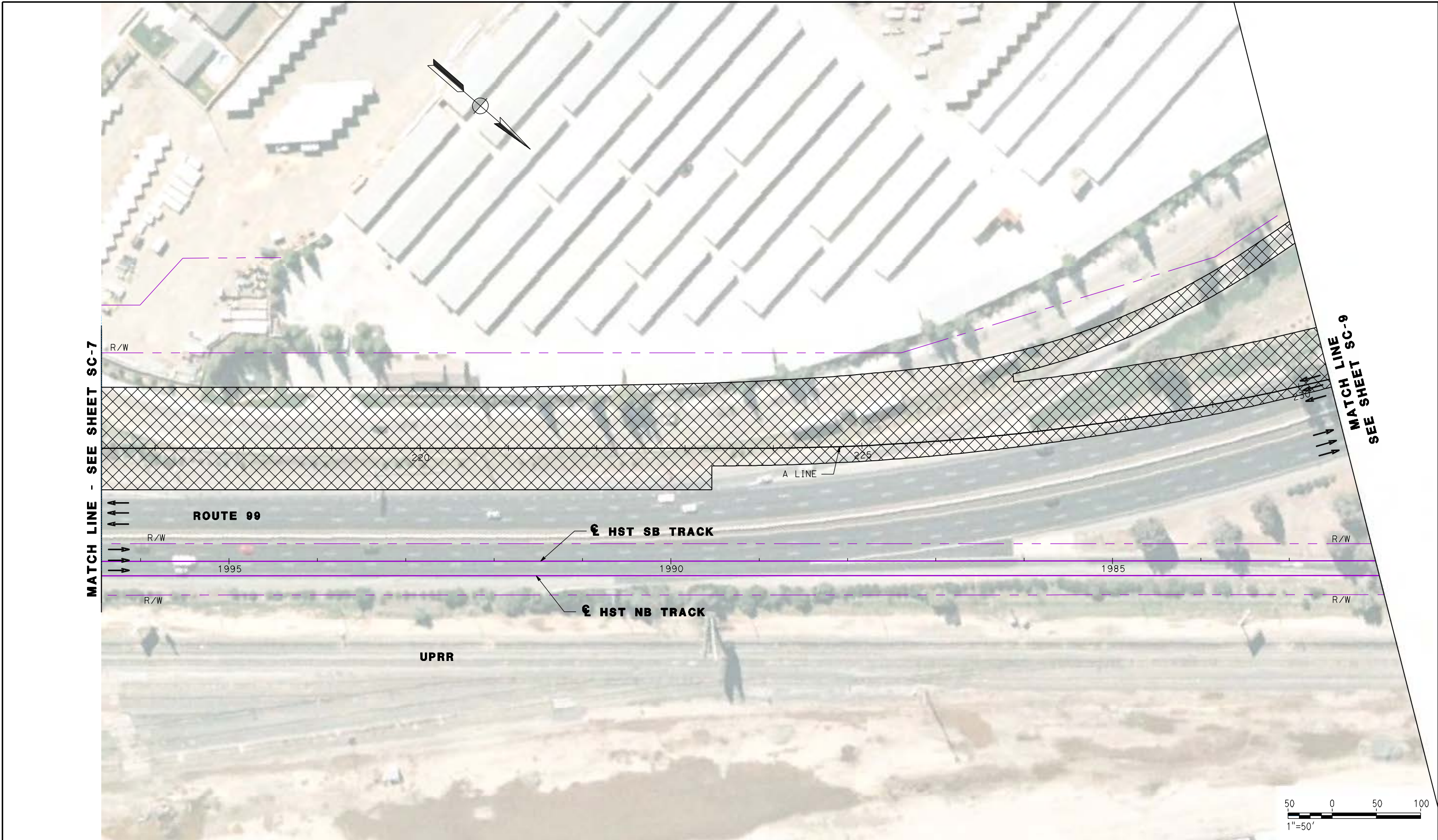
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-7
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

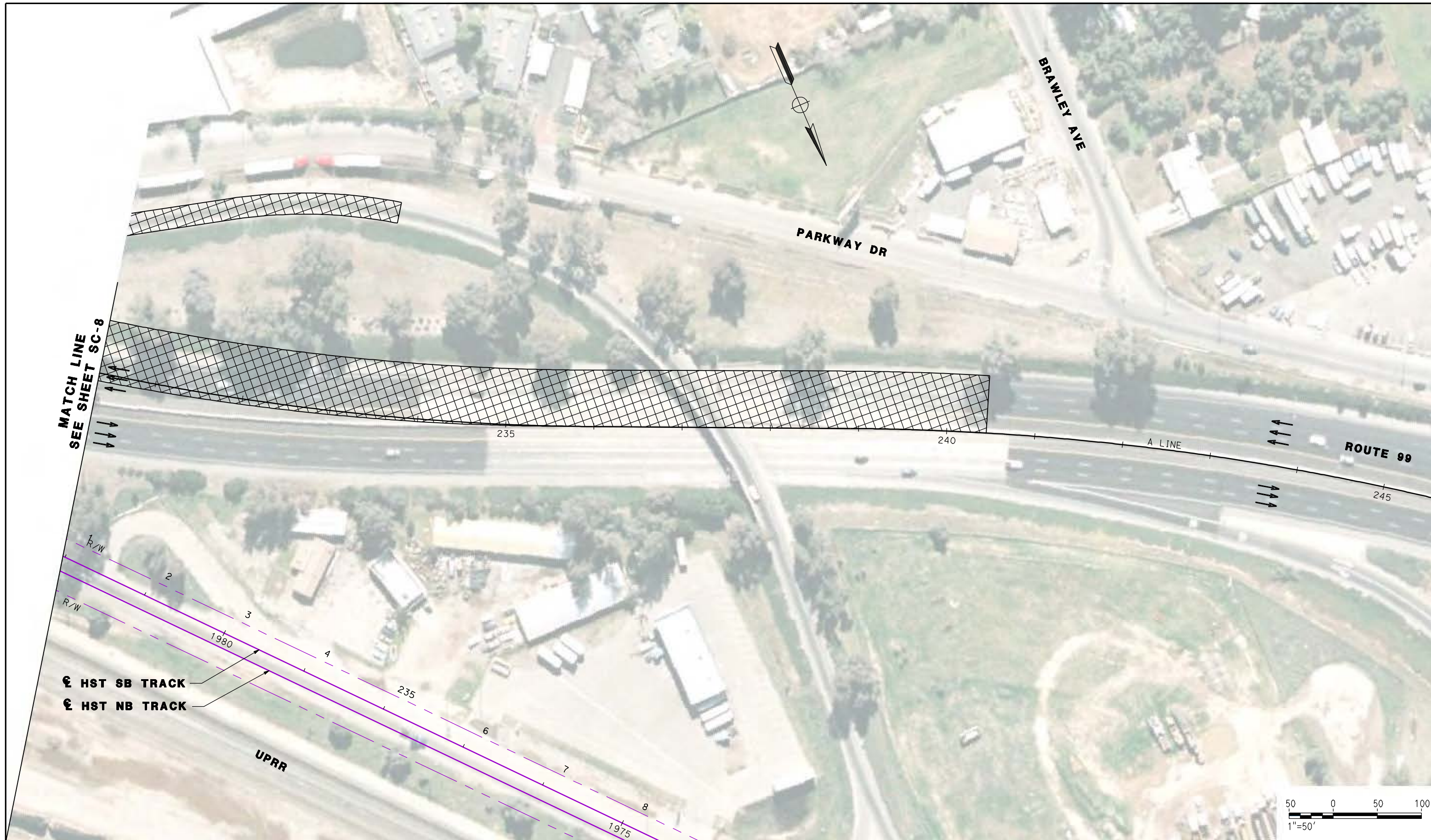
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-8
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11



MATCH LINE
SEE SHEET SC-8

€ HST SB TRACK
€ HST NB TRACK



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION



CONTRACT NO.
HSR06-007
DRAWING NO.
SC-9
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11

STAGING NOTES:

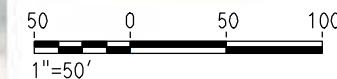
1. -CLOSE ON/OFF RAMP AT DAKOTA, PRINCETON AND SHIELD AVE.
-CLOSE SOUTHBOUND ON/OFF RAMP AT CLINTON AVE.
-CLOSE NORTHBOUND ON/OFF RAMP AT CLINTON AVE.
2. -SHIFT ROUTE 99 NORTHBOUND/SOUTHBOUND TO STAGE 1 PAVEMENT.
SEE TYPICAL SECTION SHEETS SC-11 AND SC-13.
3. -CONSTRUCT REMAINDER OF ROUTE 99.
-CONSTRUCT NORTHBOUND ON/OFF RAMP AT CLINTON AVE.
-CONSTRUCT NORTHBOUND OFF RAMP ASHLAN AVE.
-CONSTRUCT NORTHBOUND ON RAMP MOTEL DR.
4. -SHIFT EASTBOUND AND WESTBOUND CLINTON AVE TRAFFIC TO SOUTHERLY PORTION OF CLINTON AVENUE.
-REMOVE NORTHERLY PORTION OF CLINTON AVENUE OC.
-CONSTRUCT NEW NORTHERLY PORTION OF CLINTON AVE.
-SHIFT EASTBOUND AND WESTBOUND CLINTON AVE TRAFFIC TO NORTHERLY PORTION OF CLINTON AVENUE.
-CONSTRUCT NEW SOUTHERLY PORTION OF CLINTON AVE.
-SEE TYPICAL SECTION SHEET SC-11.
5. -MULTIPLE PHASES AND NIGHT CLOSURES ARE ANTICIPATED FOR REMOVAL OF EXISTING BRIDGE, BRIDGE CONSTRUCTION AND CONFORM TO ROUTE 99.
6. -ASHLAN AVE NORTHBOUND OFF RAMP TO REMAIN OPEN AT ALL TIMES.
7. -HIGH SPEED RAIL TO BE CONSTRUCTED AFTER COMPLETION OF ROUTE 99.

LEGEND:

-  CONSTRUCT THIS STAGE
-  CONSTRUCT PREVIOUS STAGE



MATCH LINE - SEE SHEET SC-11



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

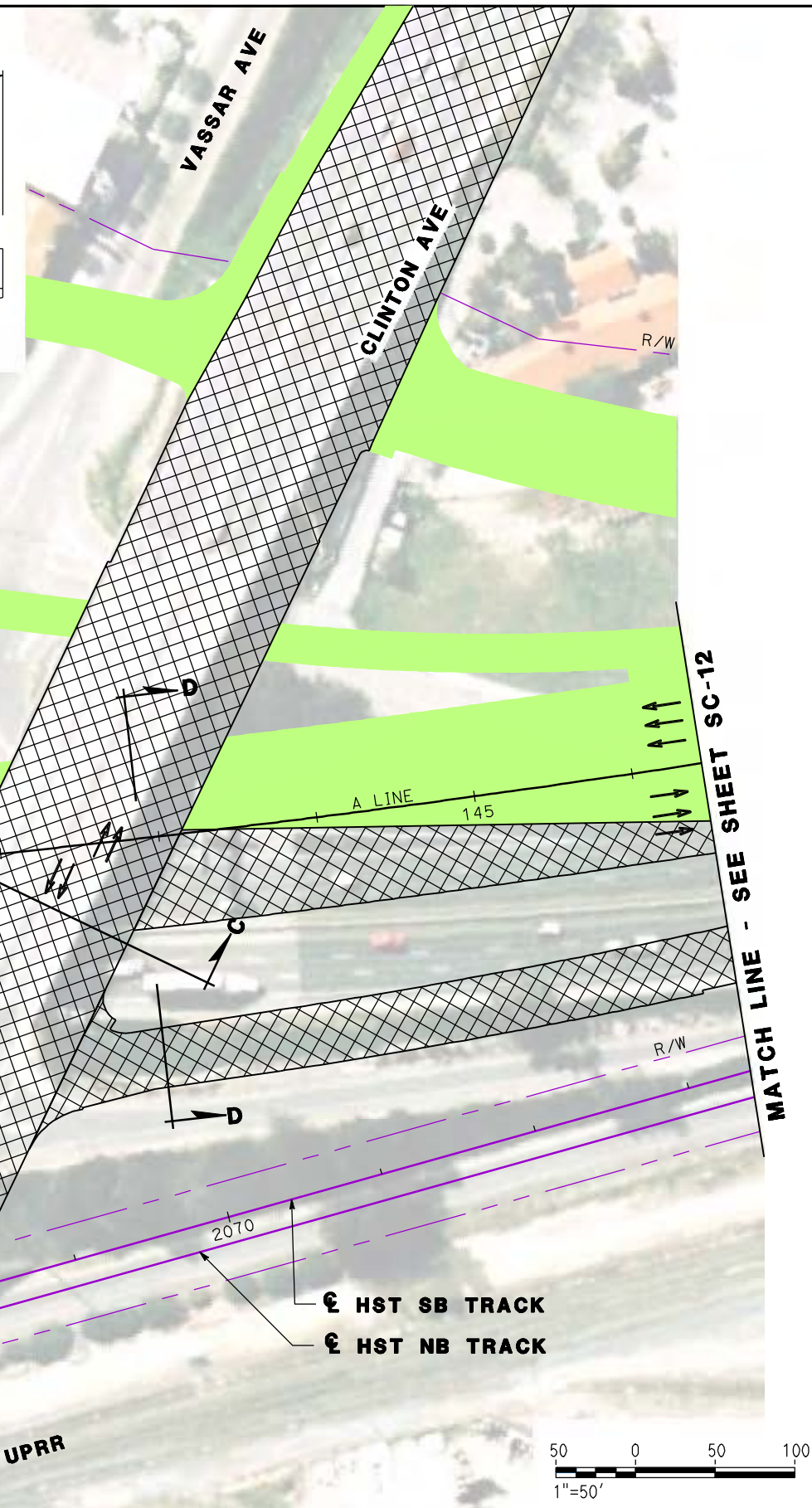
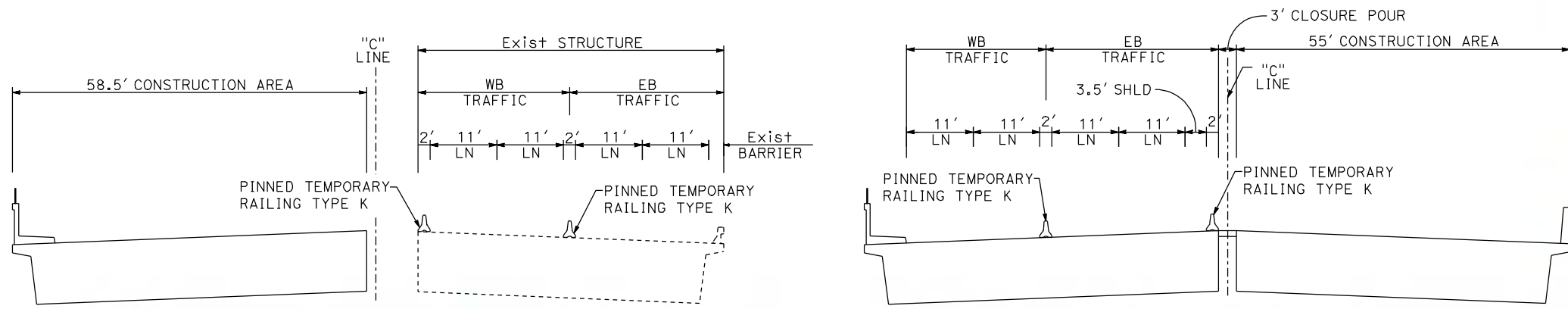
NOT FOR
CONSTRUCTION



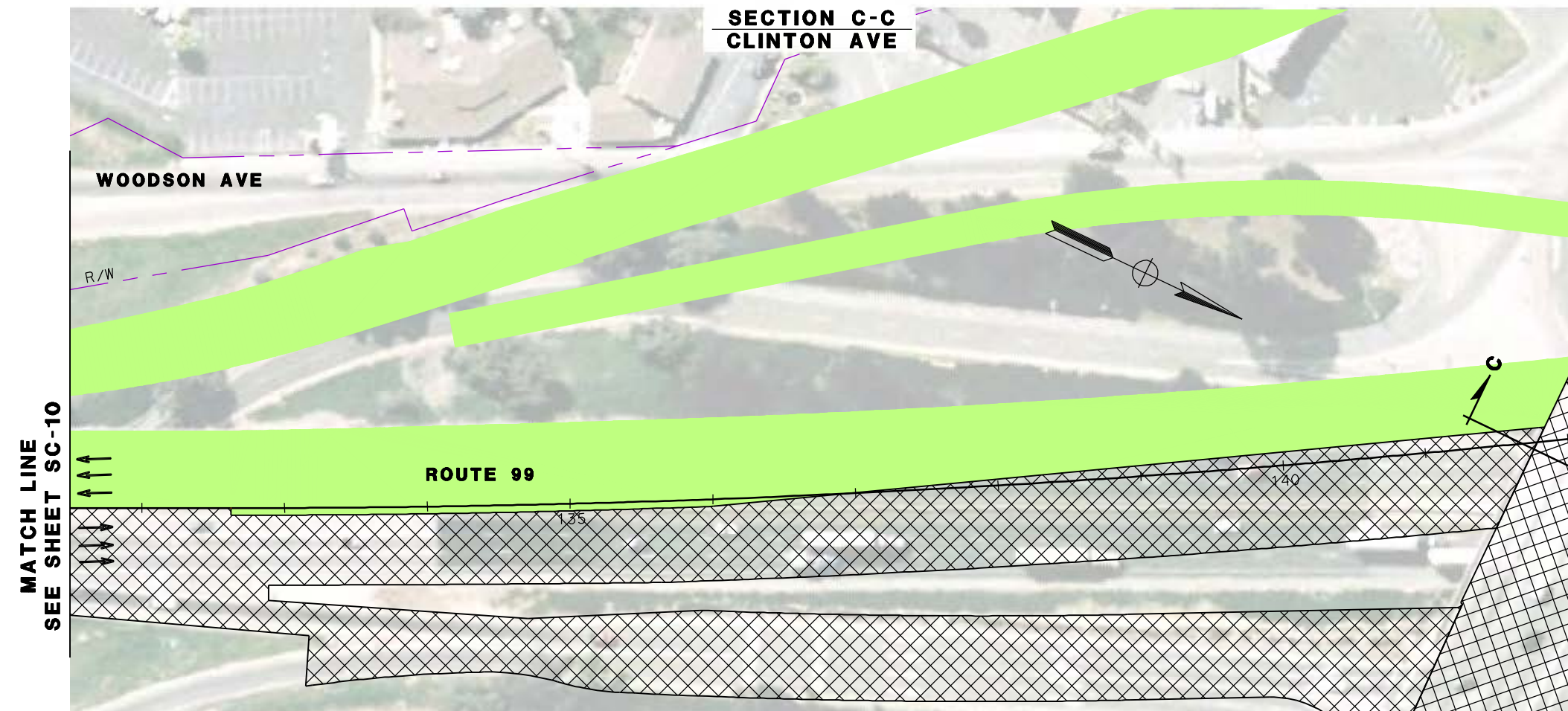
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-10
SCALE
AS SHOWN
SHEET NO.

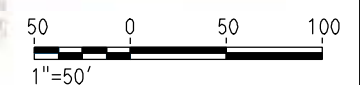
DATE PLOTTED: 23-APR-2011



**SECTION C-C
CLINTON AVE**



**SECTION D-D
ROUTE 99 AT CLINTON AVE**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

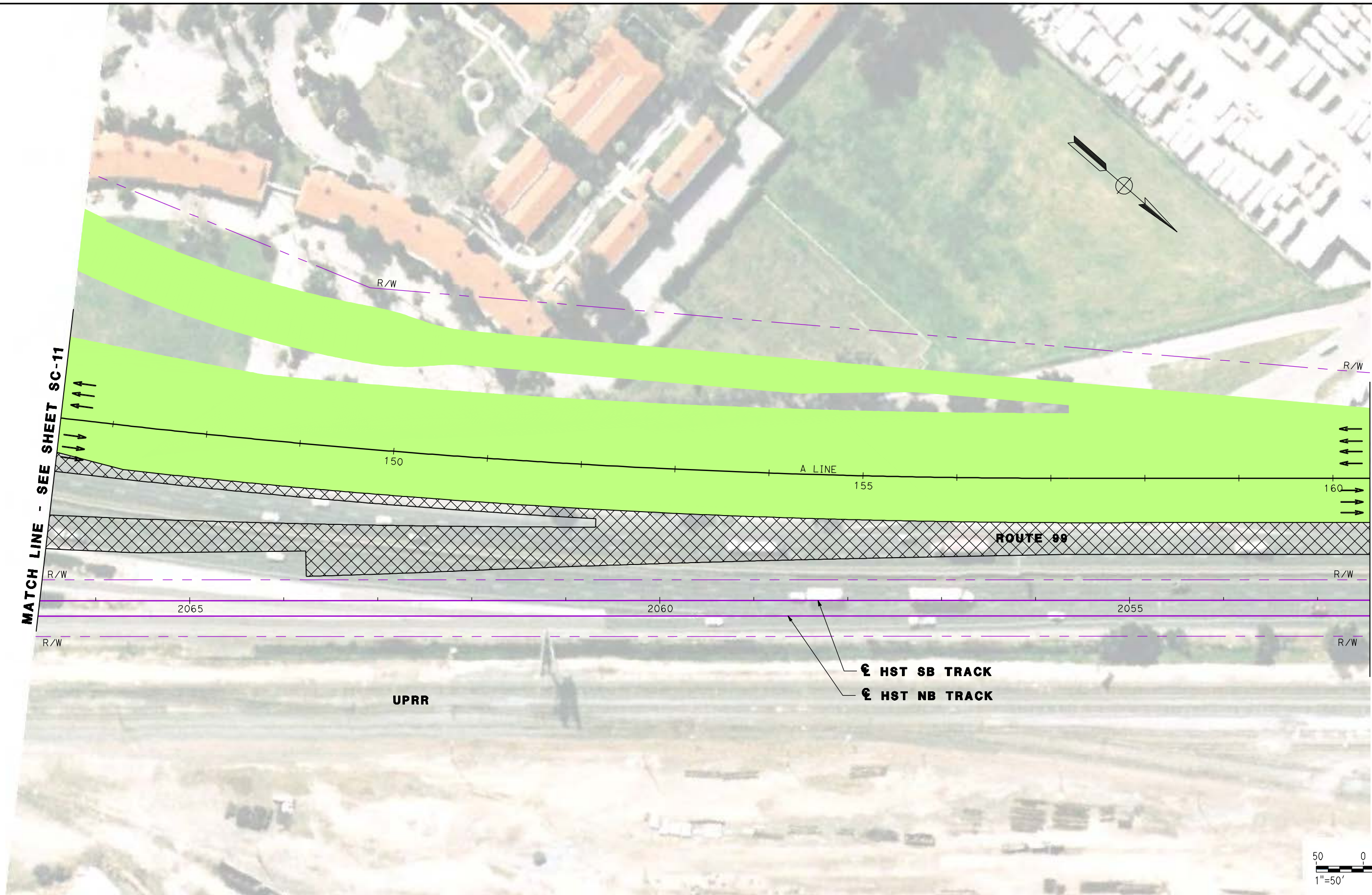
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-11
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11



MATCH LINE - SEE SHEET SC-11

MATCH LINE - SEE SHEET SC-13



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

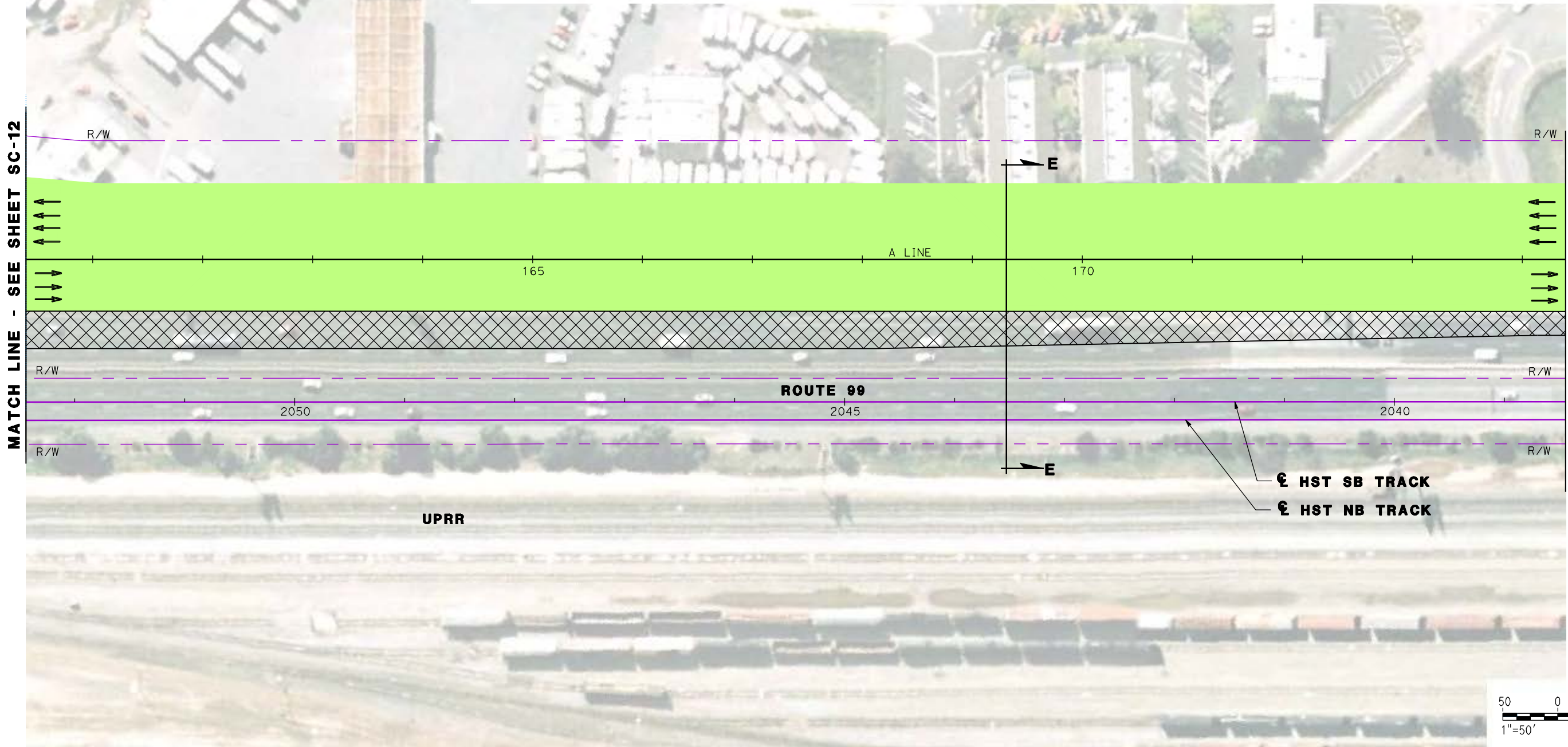
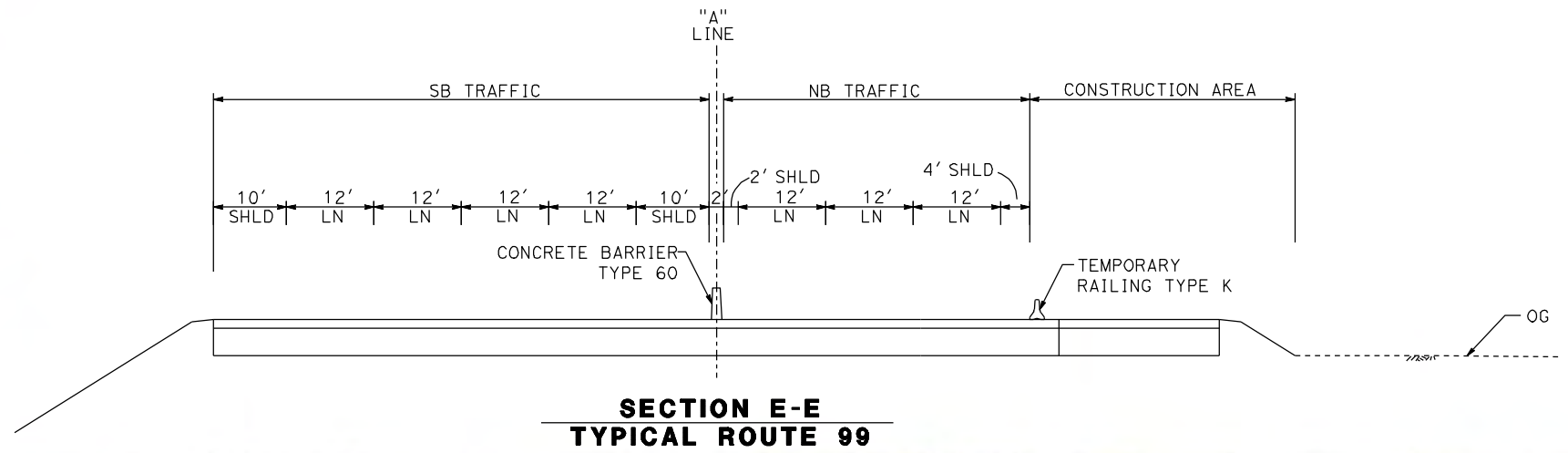
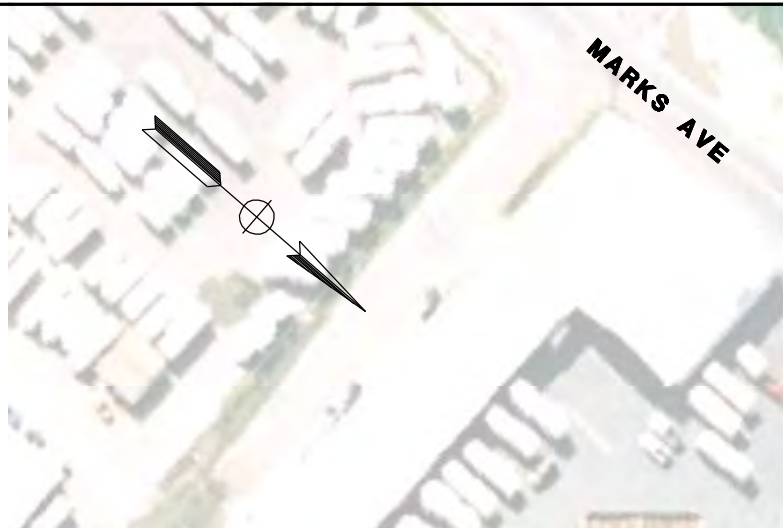
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-12
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

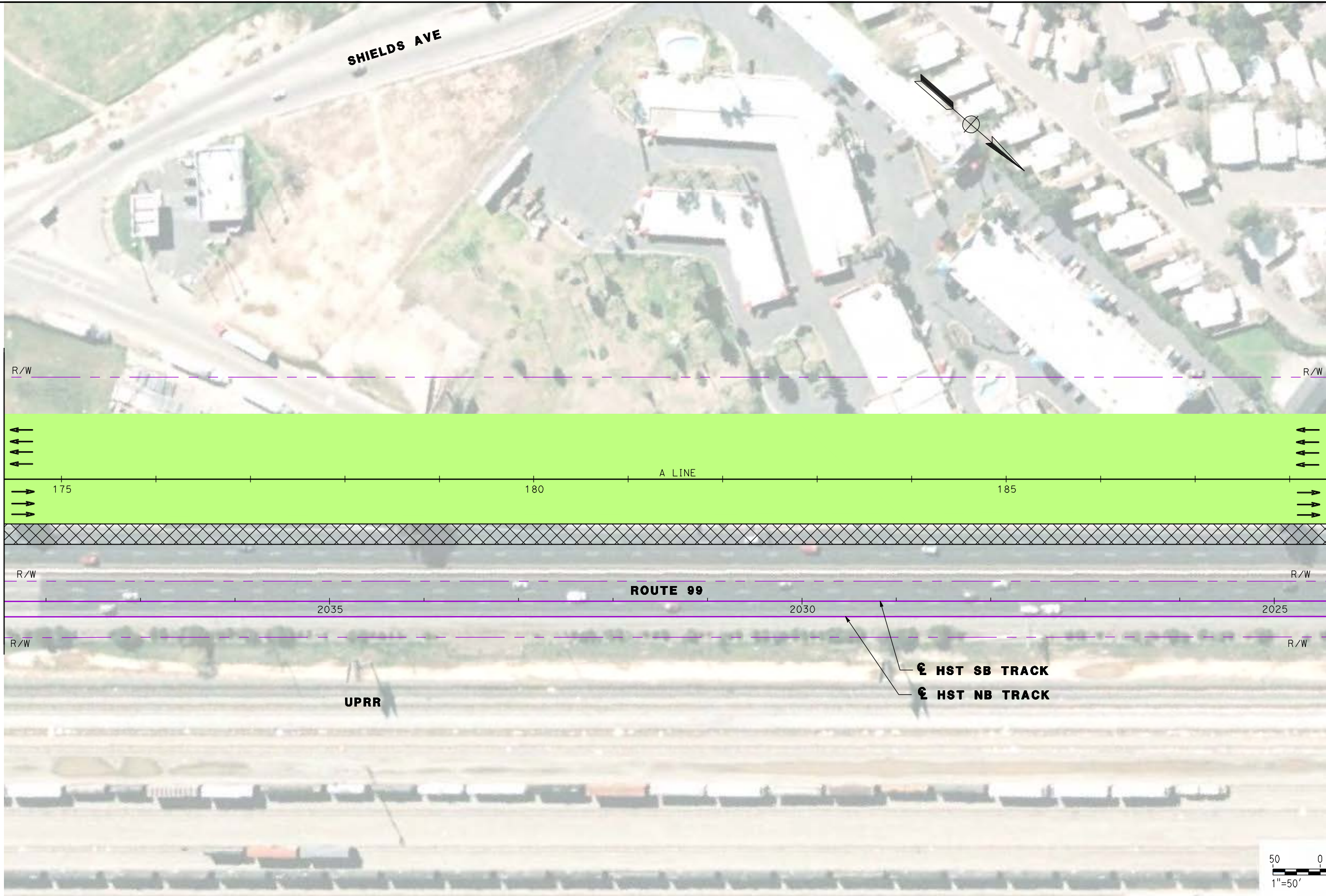
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-13
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



MATCH LINE - SEE SHEET SC-13

MATCH LINE - SEE SHEET SC-15

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

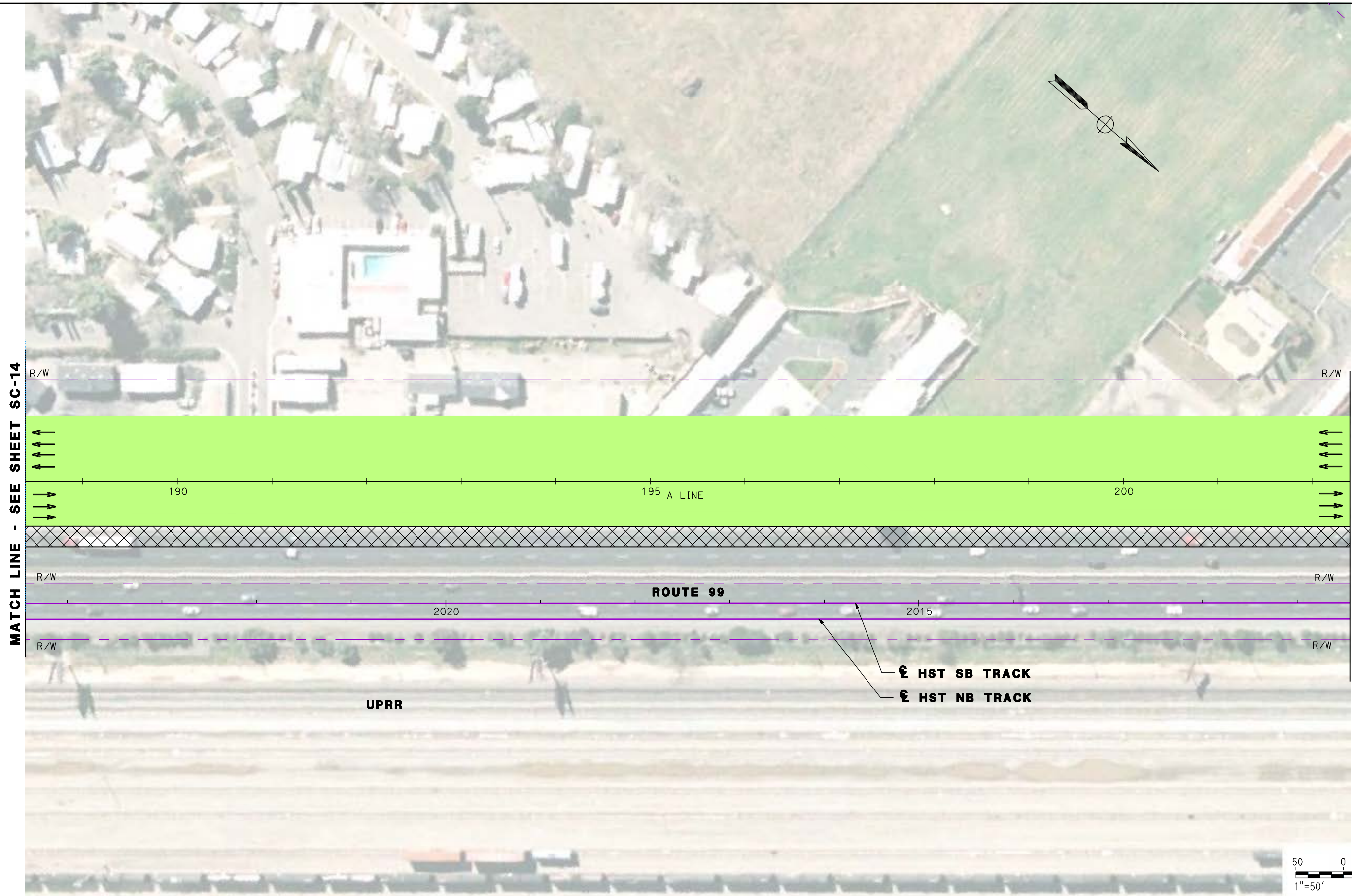
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

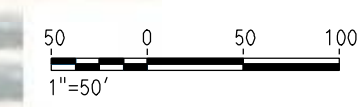
CONTRACT NO.
HSR06-007
DRAWING NO.
SC-14
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11



MATCH LINE - SEE SHEET SC-14

MATCH LINE - SEE SHEET SC-16



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

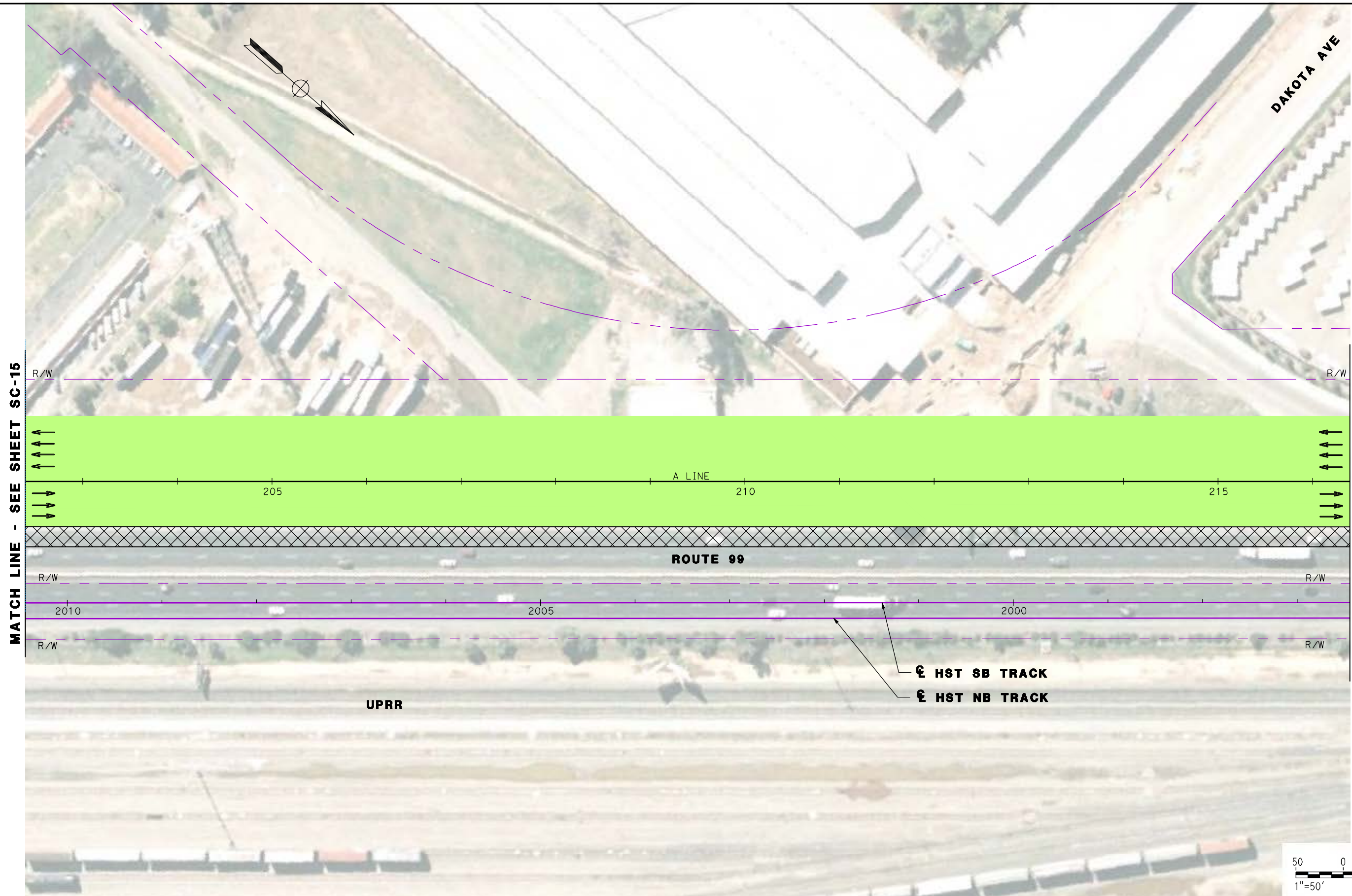
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-15
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



MATCH LINE - SEE SHEET SC-15

MATCH LINE - SEE SHEET SC-17

205

210

215

R/W

R/W

2010

2005

2000

R/W

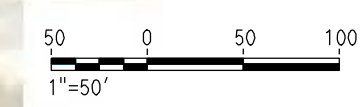
R/W

ROUTE 99

UPRR

☒ HST SB TRACK

☒ HST NB TRACK



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

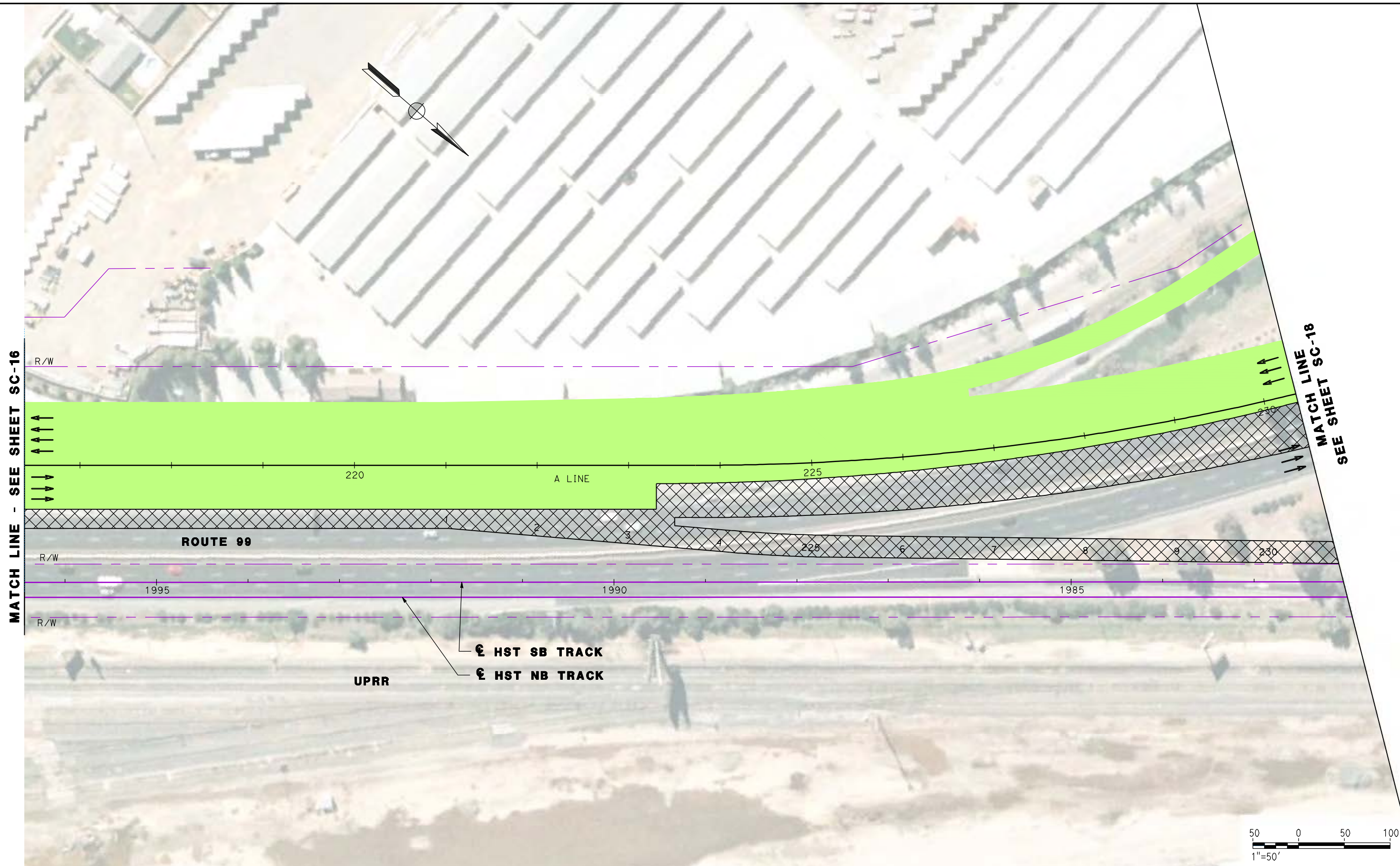
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-16
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 23-APR-2011



MATCH LINE - SEE SHEET SC-16

MATCH LINE SC-18
SEE SHEET SC-18



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

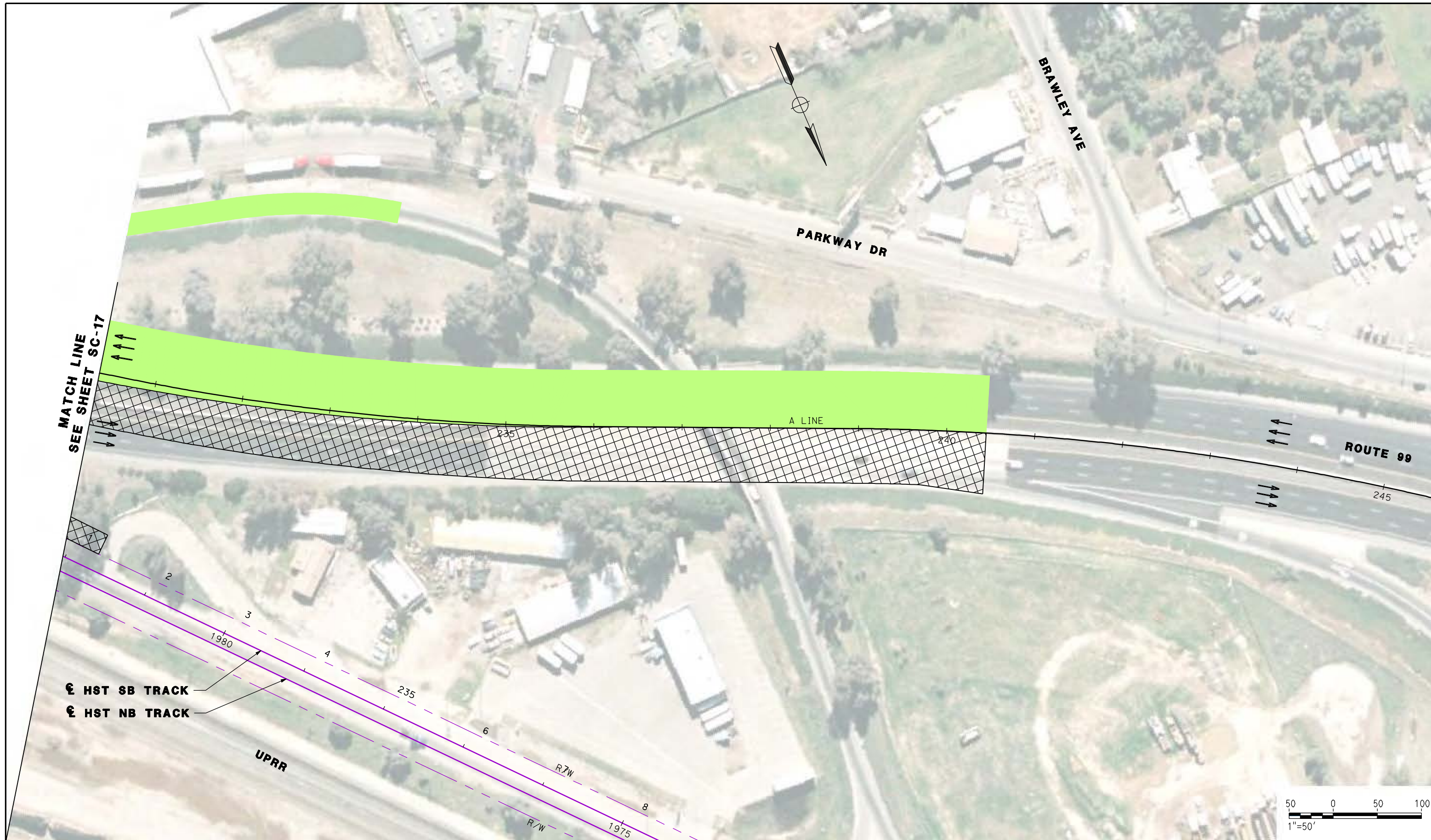
CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-17
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



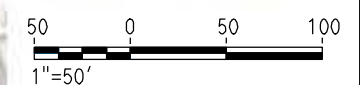
MATCH LINE
SEE SHEET SC-17

A LINE

ROUTE 99

⊕ HST SB TRACK
⊕ HST NB TRACK

UPRR



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
DRAWN BY
L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

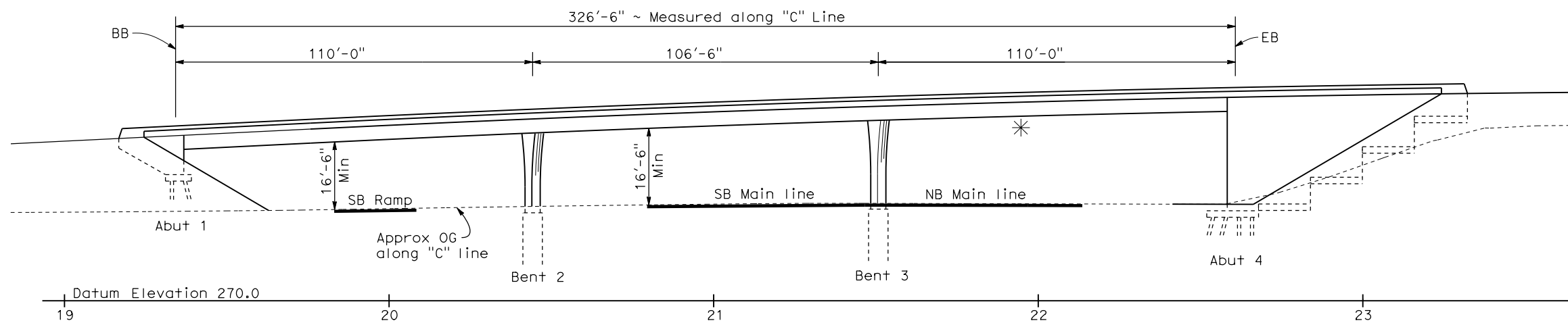
CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-18
SCALE
AS SHOWN
SHEET NO.

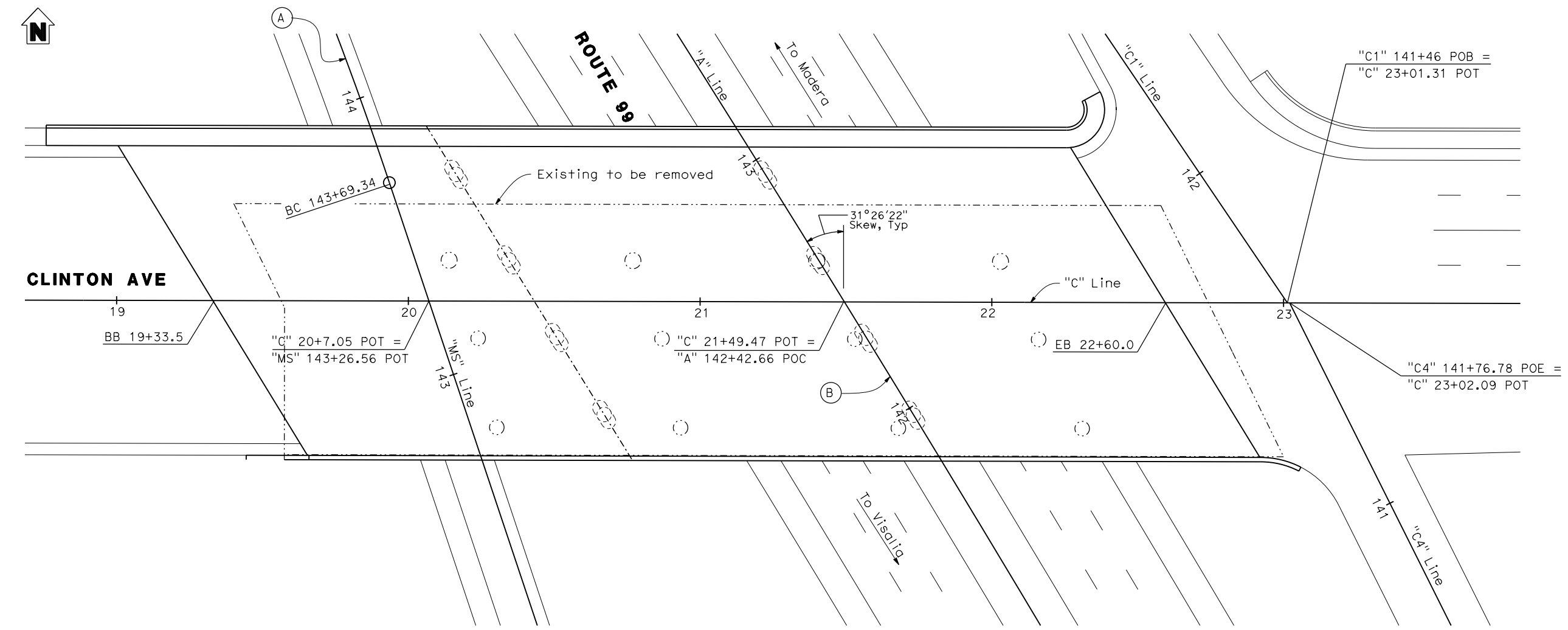
DATE PLOTTED: 23-APR-2011



DATE OF ESTIMATE	=	10-21-2010
BRIDGE REMOVAL	=	\$ 600,000
STRUCTURE DEPTH	=	4'-6"
LENGTH	=	326'-6"
WIDTH	=	114'-6"
AREA	=	37,385 ft ²
COST/ft ² INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 175/ft ²
TOTAL COST	=	\$ 6,543,000

ELEVATION
1"=20'

* Temporary Falsework Clearance = 15'-0"
Falsework Depth = 3'-3 1/2"



CURVE DATA (A)	
R = 1350'	
Δ = 10°30'20"	
L = 247.53'	
T = 124.11'	
CURVE DATA (B)	
R = 9000.00'	
Δ = 15°38'27"	
L = 2456.85'	
T = 1236.11'	

PLAN
1"=20'

CLINTON AVE OVERCROSSING (REPLACE)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

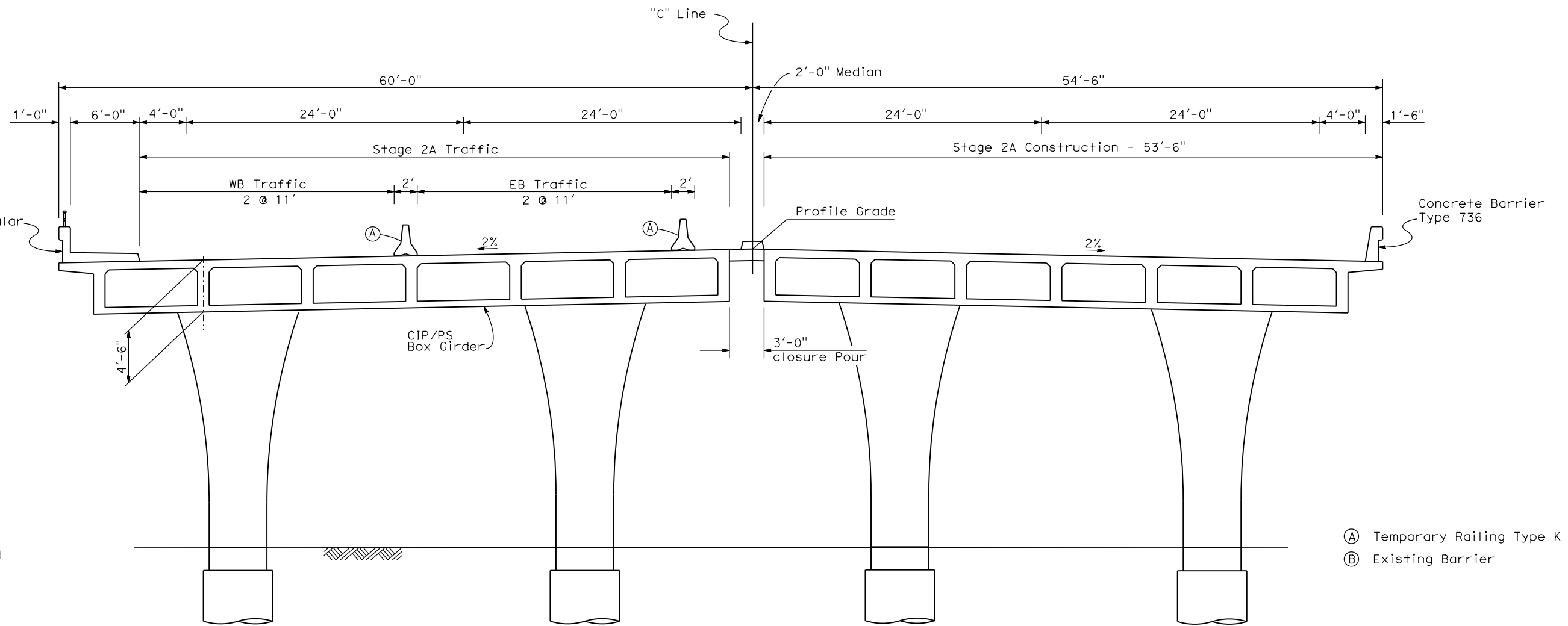
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY

CONTRACT NO.	HSR006-007
DRAWING NO.	BR-1
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 23-APR-2011



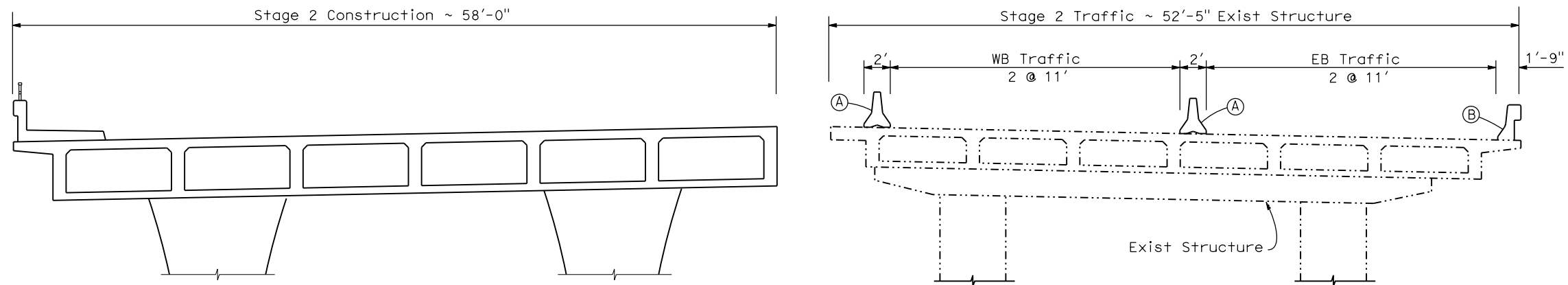
TYPICAL SECTION
1"=5'

STAGING NOTES:

STAGE 1:
 Shift Clinton Ave EB & WB traffic to southerly portion of Clinton Ave OC.
 Remove north portion of Clinton Ave OC.
 Construct north portion of Clinton Ave OC.

STAGE 2:
 Shift Clinton Ave EB & WB traffic to newly constructed Clinton Ave OC.
 Remove remaining portion of Clinton Ave OC.
 Construct south portion of Clinton Ave OC.
 Closure pour.

- (A) Temporary Railing Type K
- (B) Existing Barrier



STAGE CONSTRUCTION
1"=5'

CLINTON AVE OVERCROSSING (REPLACE)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
 DRAWN BY
P. WALKER
 CHECKED BY
J. SHOWERS
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

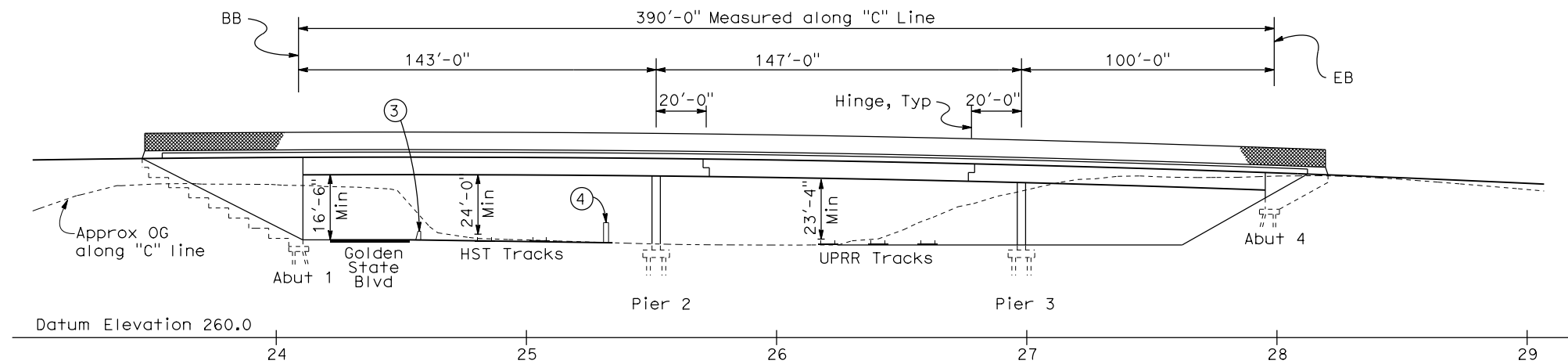
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY

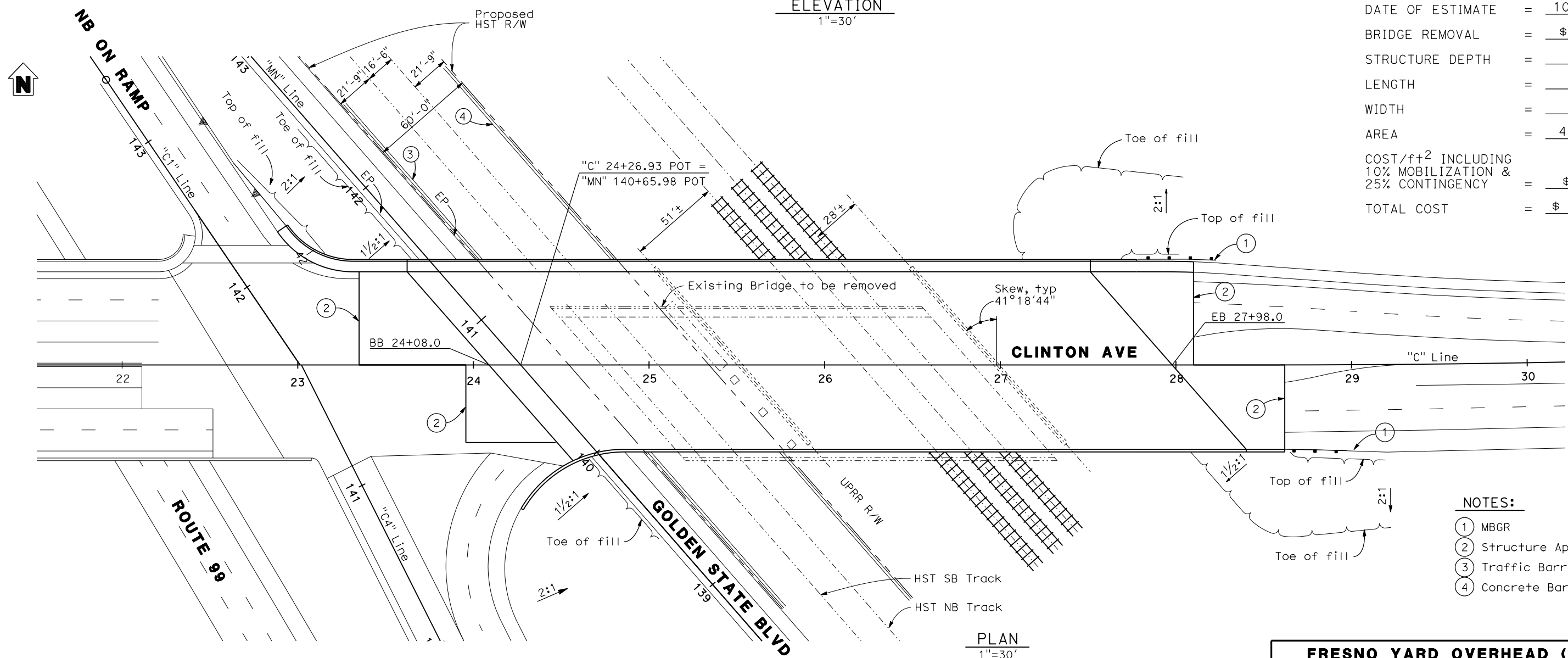
CONTRACT NO.
HSR006-007
 DRAWING NO.
BR-2
 SCALE
AS SHOWN
 SHEET NO.

DATE PLOTTED: 23 APR 2011



ELEVATION
1"=30'

DATE OF ESTIMATE	=	10-21-2010
BRIDGE REMOVAL	=	\$ 400,000
STRUCTURE DEPTH	=	7'-6"
LENGTH	=	390'-0"
WIDTH	=	109'-6"
AREA	=	42,705 ft ²
COST/ft ² INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 150/ft ²
TOTAL COST	=	\$ 6,810,000



PLAN
1"=30'

- NOTES:
- ① MBGR
 - ② Structure Approach
 - ③ Traffic Barrier
 - ④ Concrete Barrier Wall

FRESNO YARD OVERHEAD (REPLACE)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

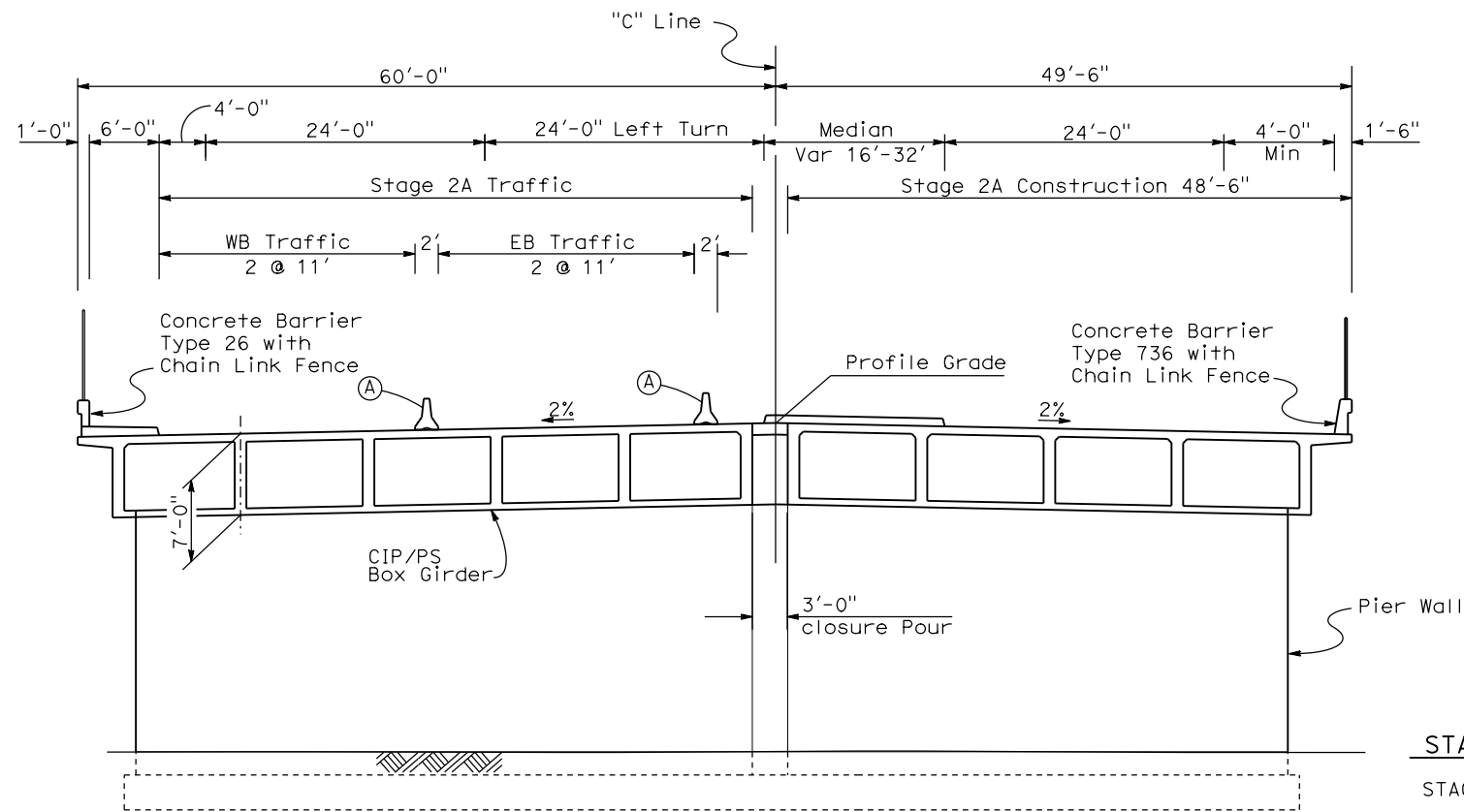
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY**

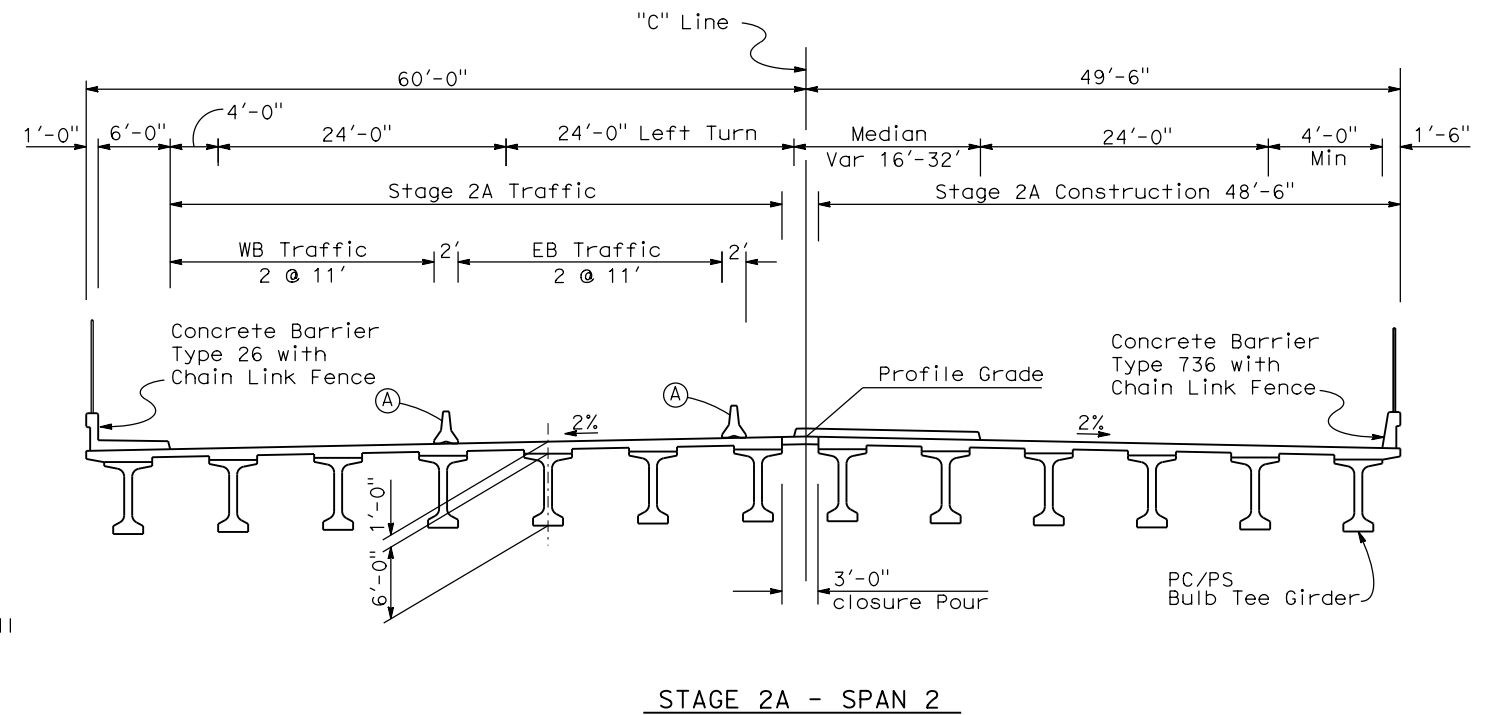
CONTRACT NO.	HSR006-007
DRAWING NO.	BR-3
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 23-28-APR-2011



STAGE 2A - SPANS 1 & 3

- (A) Temporary Railing Type K
- (B) Existing Barrier



STAGE 2A - SPAN 2

STAGING NOTES:

STAGE 2:

Shift Clinton Ave EB & WB traffic to southerly portion of Fresno Yard OH.

Remove north portion of Fresno Yard OH.

Construct north portion of Fresno Yard OH.

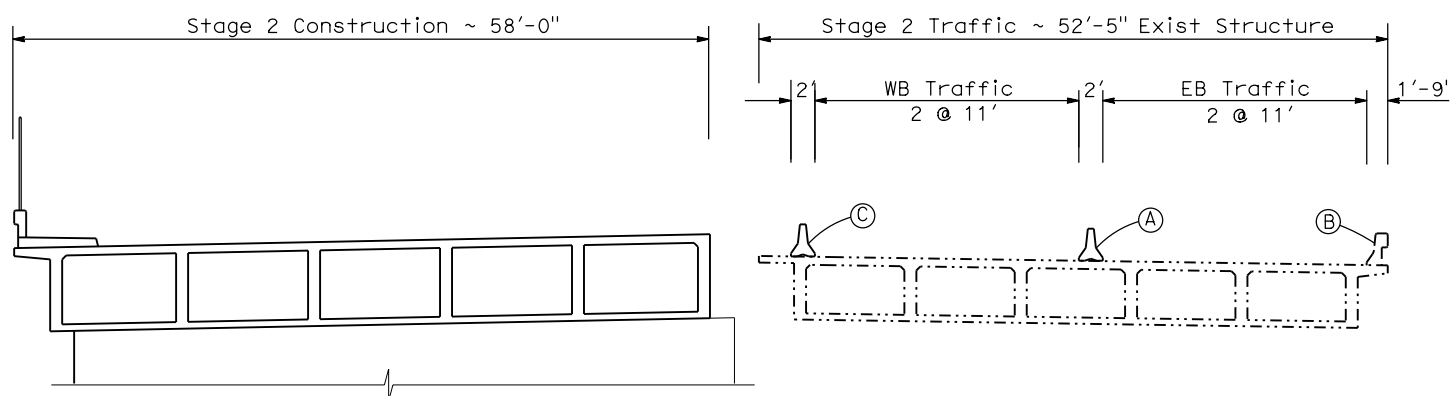
STAGE 2A:

Shift Clinton Ave EB & WB traffic to newly constructed Fresno Yard OH.

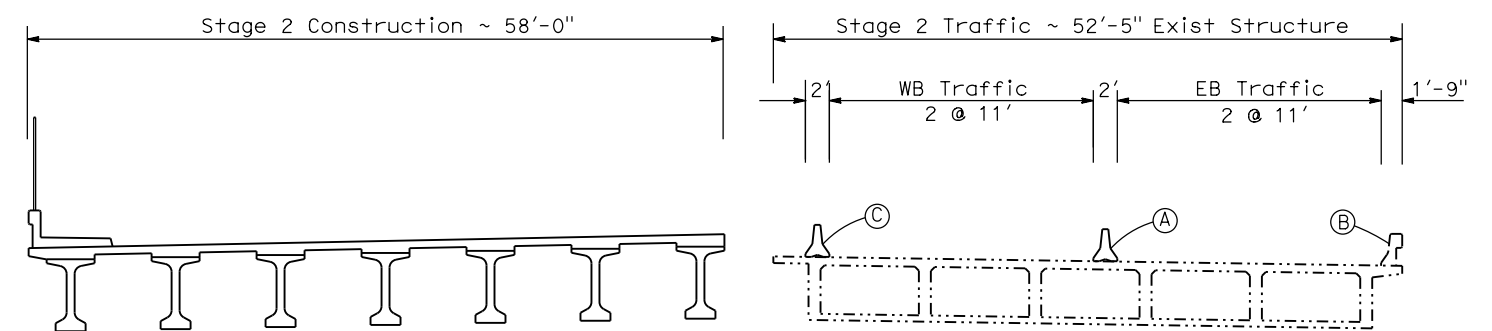
Remove remaining portion of Fresno Yard OH.

Construct south portion of Fresno Yard OH.

Closure pour.



STAGE 1 - SPANS 1 & 3



STAGE 1 - SPAN 2

TYPICAL SECTION

1/8"=1'-0"

FRESNO YARD OVERHEAD (REPLACE)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

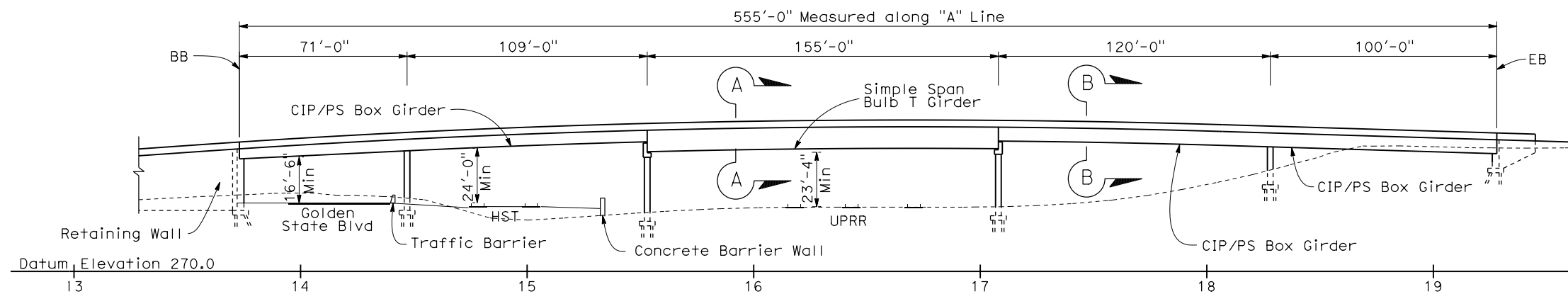
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY**

CONTRACT NO.
HSR006-007
DRAWING NO.
BR-4
SCALE
AS SHOWN
SHEET NO.

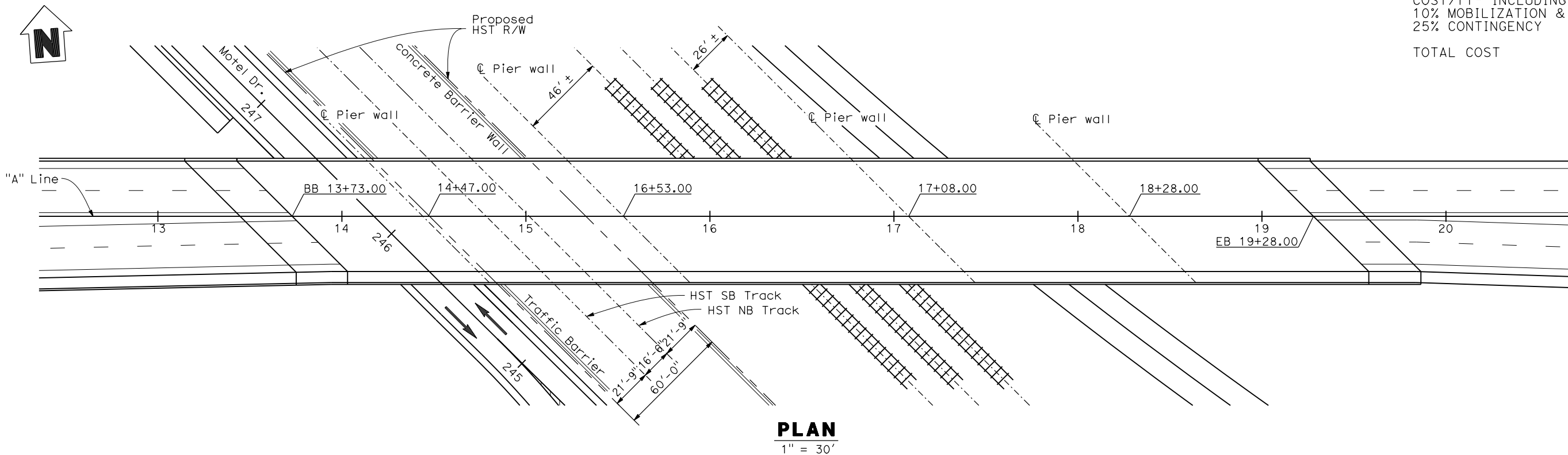
DATE PLOTTED: 23-APR-2011



ELEVATION

1" = 30'

DATE OF ESTIMATE	=	3-14-2011
BRIDGE REMOVAL	=	\$ 600,000
STRUCTURE DEPTH	=	9'-6"
LENGTH	=	555'-0"
WIDTH	=	68'-6"
AREA	=	38,020 ft ²
COST/ft ² INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 175/ft ²
TOTAL COST	=	\$ 6,700,000



ASHLAN AVE OVERHEAD (REPLACE)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS

DRAWN BY
P. WALKER

CHECKED BY
J. SHOWERS

IN CHARGE
J. MATSUI-DRURY

DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH SPEED TRAIN PROJECT

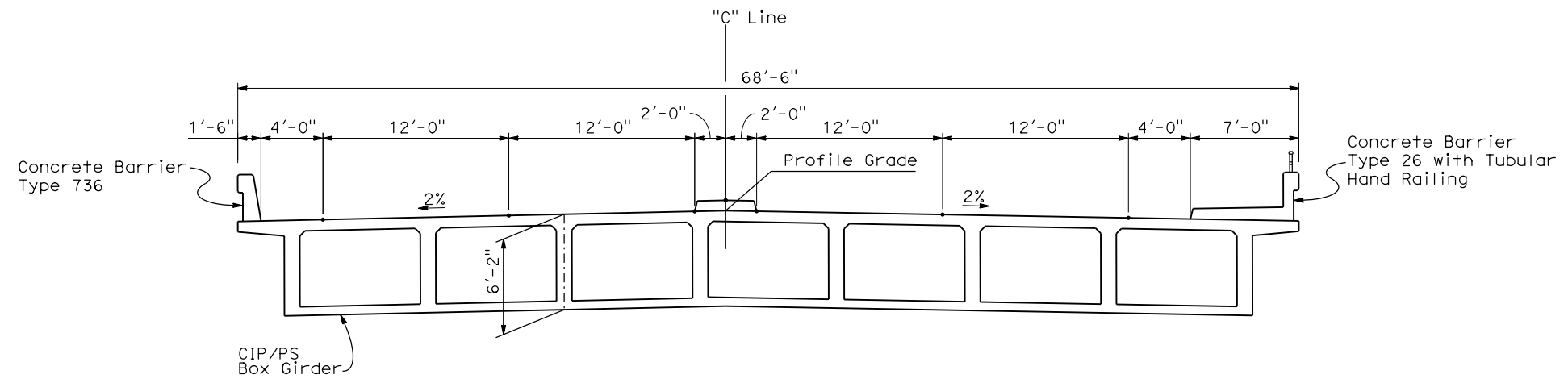
MERCED TO FRESNO

ROUTE 99 RE-ALIGNMENT

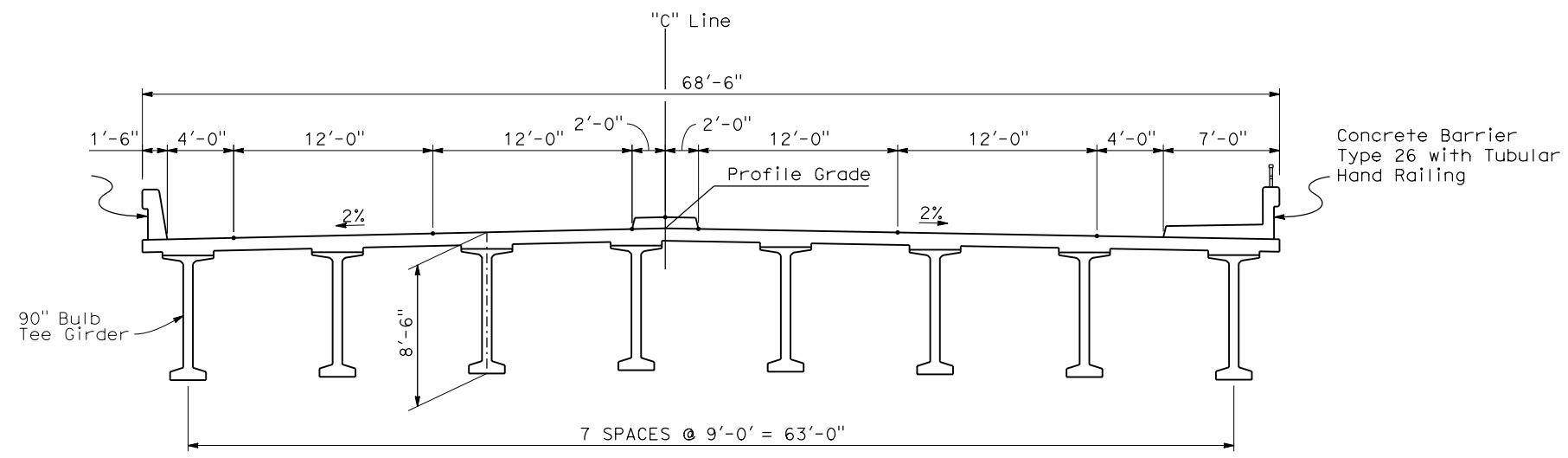
ADVANCE PLANNING STUDY

CONTRACT NO.	HSR006-007
DRAWING NO.	BR-5
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 03-28-APR-2011



SECTION A-A
1"=5'



SECTION B-B
1"=5'

ASHLAN AVE OVERHEAD (REPLACE)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FREDERICKS
DRAWN BY
P. WALKER
CHECKED BY
J. SHOWERS
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY

CONTRACT NO.
HSR006-007
DRAWING NO.
BR-6
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 23 APR 2011 10:00 AM

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LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
GENERAL						
		B0110-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 1
		B0111-A	BNSF - AVE 24 WYE	GENERAL	ABBREVIATIONS, SYMBOL & NOTES	SHEET 1 OF 1
		B0117-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 1 OF 4
		B0118-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 2 OF 4
		B0119-A	BNSF - AVE 24 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 3 OF 4
		B0120-A	BNSF - AVE 24 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 4 OF 4
		CT0121-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	LOCAL ROADS	SHEET 1 OF 1
A1 - AVE 24 WYE (LAYOUT)						
46		CR4000-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - ROAD 30 1/2	LAYOUT	SHEET 1 OF 1
47		CR4001-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - ROAD 29	LAYOUT	SHEET 1 OF 1
48		CR4002-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
49		CR4003-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SHARON ST	LAYOUT	SHEET 1 OF 1
51		CR4005-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 26	LAYOUT	SHEET 1 OF 1
52		CR4006-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SANTA FE DR	LAYOUT	SHEET 1 OF 1
53		CR4007-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 1 OF 3
53		CR4008-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 2 OF 3
53		CR4009-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 3 OF 3
55		CR4010-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - BURCHELL AVE	LAYOUT	SHEET 1 OF 1
56		CR4011-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - ROAD 24	LAYOUT	SHEET 1 OF 1
57		CR4012-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - HANOVER DR	LAYOUT	SHEET 1 OF 1
58		CR4013-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
58		CR4014-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
60		CR4015-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - ROAD 22	LAYOUT	SHEET 1 OF 1
66		CR4016-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 1 OF 2
66		CR4017-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 2 OF 2
66		CR4016R-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 1 OF 2
66		CR4017R-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 2 OF 2
67		CR4018-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - ROAD 33	LAYOUT	SHEET 1 OF 1
61		CR4100-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 23 1/2	LAYOUT	SHEET 1 OF 2
61		CR4101-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 23 1/2	LAYOUT	SHEET 2 OF 2
A1 - AVE 24 WYE - ALT 01 (LAYOUT)						
83		CR4200-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.WHITE ROCK RD	LAYOUT	SHEET 1 OF 2
83		CR4201-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.WHITE ROCK RD	LAYOUT	SHEET 2 OF 2
84		CR4202-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.BURCHELL AVE	LAYOUT	SHEET 1 OF 1
A1 - AVE 24 WYE - ALT 02 (LAYOUT)						
85		CR4255-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.FRESNO ROAD	LAYOUT	SHEET 1 OF 1
A1 - AVE 24 WYE - ALT 03 (LAYOUT)						
86		CR4300-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.SANTA FE AVE	LAYOUT	SHEET 1 OF 2
86		CR4301-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.SANTA FE AVE	LAYOUT	SHEET 2 OF 2
		CR1479-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	AVENUE 22 CONNECTOR TO ROAD 11	PLAN AND PROFILE
		CR1480-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	AVENUE 22 CONNECTOR TO ROAD 11	PLAN AND PROFILE
		CR1483-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	AVENUE 21	PLAN AND PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF - AVE 24
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO.
HSR06-007
DRAWING NO.
B0110-A
SCALE
NONE
SHEET NO.
OF

A. BOONEBREVIACTIONS

SYMBOLS

ALIGNMENT

HORIZONTAL

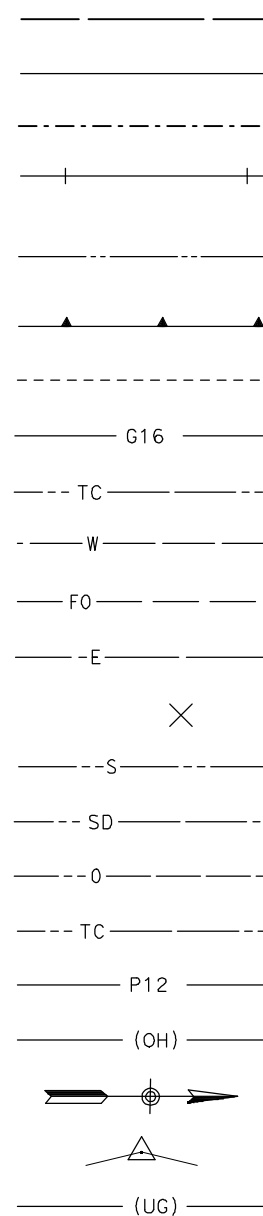
BC BEGINNING OF CURVE
 EC END OF CURVE
 PC POINT OF CURVE
 PI POINT OF INTERSECTION OF TWO TANGENTS
 POC POINT ON CURVE
 POT POINT ON TANGENT
 PRC POINT OF REVERSE CURVES
 PT POINT OF TANGENCY
 R RADIUS OF CURVATURE IN FEET
 V, DS VELOCITY, DESIGN SPEED IN MILES PER HOUR

VERTICAL

PVC POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
 PVI POINT OF VERTICAL INTERSECTION (OF TANGENTS)
 PVT POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
 VC VERTICAL CURVE

MISCELLANEOUS

BEG BEGIN
 BLVD BOULEVARD
 CL CENTER LINE
 CLR CLEAR
 COL COLUMN
 DWG DRAWING
 EQ EQUATION
 EXIST(E) EXISTING
 IN INCH
 LT LEFT
 MAX MAXIMUM
 MIN MINIMUM
 N NORTH
 NB NORTH BOUND
 NTS NOT TO SCALE
 OG ORIGINAL GROUND
 O/H OH OVERHEAD
 PG&E PACIFIC GAS & ELECTRIC
 PGL, FG PROFILE GRADE LINE
 RR RAILROAD
 RD ROAD
 R/W RIGHT OF WAY
 RT RIGHT
 SS SANITARY SEWER
 SHT SHEET
 ST STREET
 STD STANDARD
 SD STORM DRAIN
 STRUCT, STR STRUCTURE
 T TELEPHONE
 (OH) OVERHEAD LINE
 (UG) UNDER. GIBSONROUND LINE
 TOR TOP OF RAIL
 TK TRACK
 TYP TYPICAL
 TBD TO BE DETERMINED
 TF TELECOMMUNICATIONS FIBER
 OPTIC
 V VERT VERTICAL
 W WATER, WEST



MATCH LINE
 HST TRACK
 PROPOSED HST RIGHT-OF-WAY
 FREIGHT/PASSENGER TRACK - EXISTING
 EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES
 RETAINING WALLS
 ORIGINAL GROUND
 GAS LINE (16")
 COMMUNICATION LINE
 WATER LINE
 FIBER OPTIC LINE
 ELECTRICAL LINE
 ELECTRICAL TOWER
 SEWER LINE
 STORM DRAIN LINE
 FUEL LINE
 TELEPHONE LINE
 PETROLEUM LINE (12")
 OVERHEAD LINE
 NORTH ARROW
 PVI
 UNDERGROUND LINE

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. LI
 DRAWN BY
A. TRINH
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
07/20/2011

**RECORD SET
 15% DESIGN
 SUBMITTAL**

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 CONSTRUCTION**

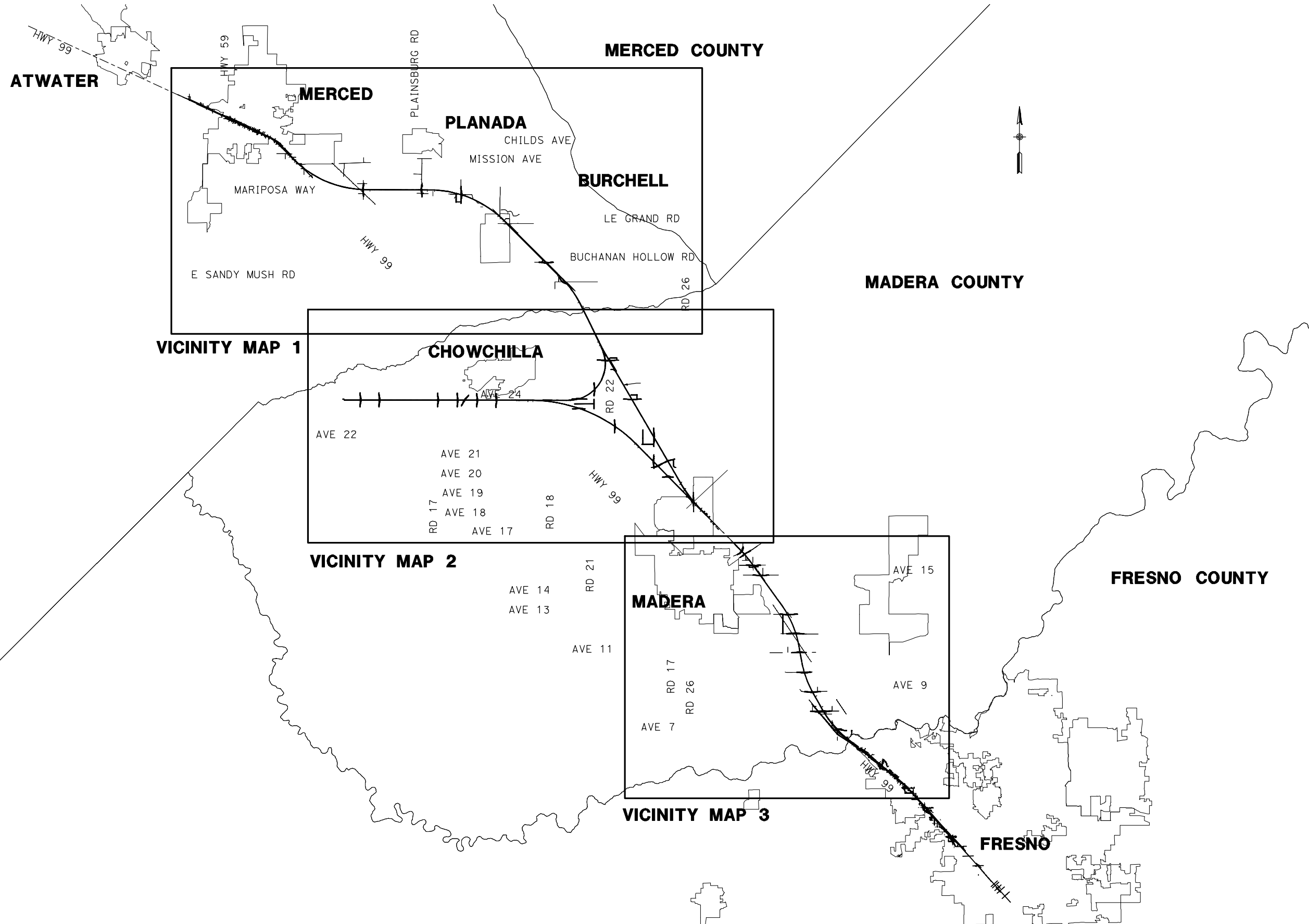


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

BNSF - AVE 24 WYE
 GENERAL
 A. BOONEBREVIACTIONS, SYMBOLS & NOTES
 SHEET 1 OF 1

CONTRACT NO.
HSR06-007
 DRAWING NO.
B0111-A
 SCALE
NO SCALE
 SHEET NO.
OF

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 24 WYE

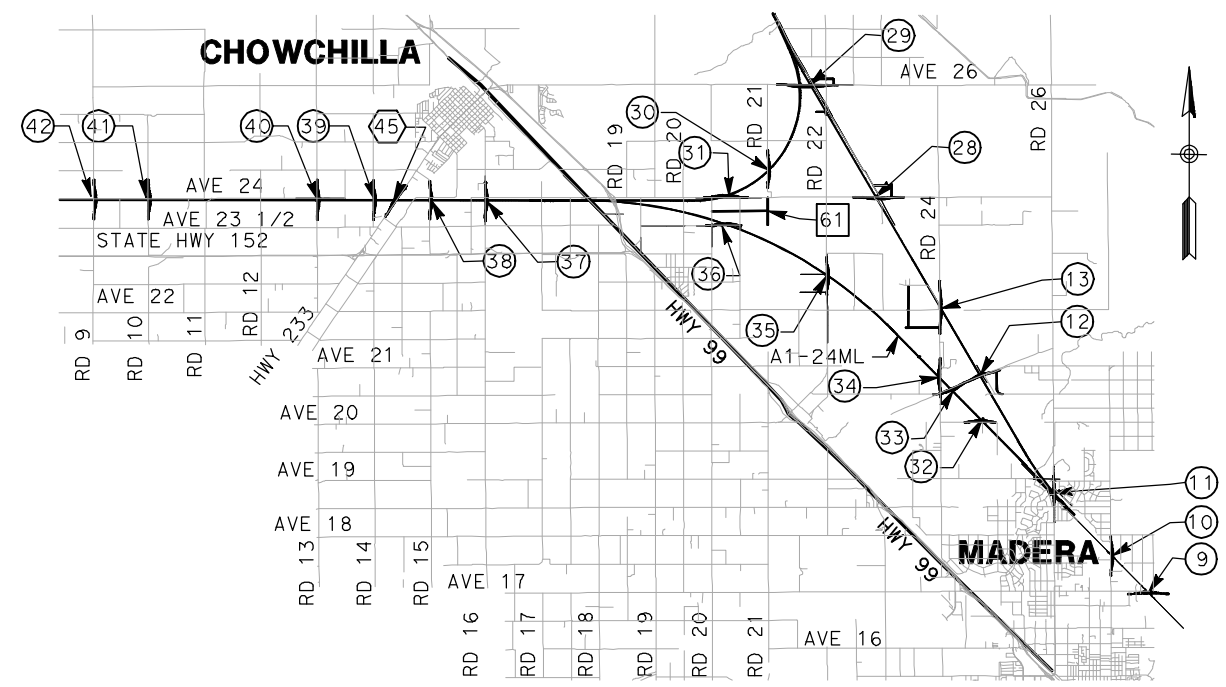
INDEX MAP
SHEET 1 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
B0117-A
SCALE
NO SCALE
SHEET NO.
OF ###

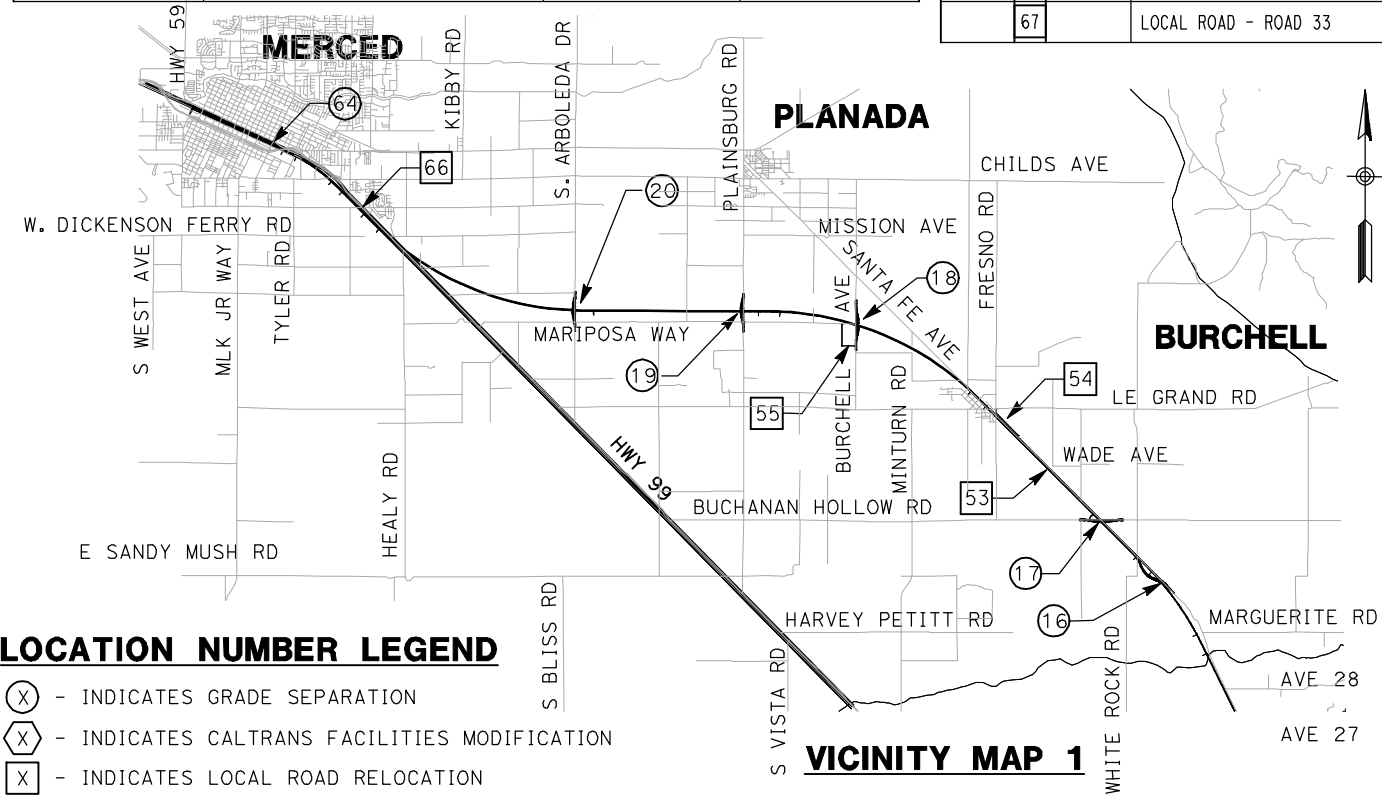
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LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
1	GRADE SEPARATION - AVENUE 9	CT0001-A - CT0003-A	ST1001
2	GRADE SEPARATION - AVENUE 10	CT0004-A - CT0006-A	ST1002
3	GRADE SEPARATION - AVENUE 11	CT0007-A - CT0009-A	ST1003
4	GRADE SEPARATION - AVENUE 12	CT0010-A - CT0012-A	ST1004
5	GRADE SEPARATION - AVENUE 13	CT0013-A - CT0016-A	ST1005
6	GRADE SEPARATION - AVENUE 15	CT0017-A - CT0019-A	ST1006
7	GRADE SEPARATION - AVENUE 15 1/2	CT0020-A - CT0022-A	ST1007
8	GRADE SEPARATION - RAYMOND RD	CT0023-A - CT0025-A	ST1008
9	GRADE SEPARATION - AVENUE 17	CT0026-A - CT0028-A	ST1009
11	UNDERPASS - ROAD 26	CT0032-A - CT0034-A	ST1011
12	GRADE SEPARATION - AVENUE 21	CT0035-A - CT0037-A	ST1012
13	GRADE SEPARATION - ROAD 24	CT0038-A - CT0040-A	ST1013
16	GRADE SEPARATION - SANTA FE AVE	CT0048-A - CT0050-A	ST1016
17	GRADE SEPARATION - BUCHANAN HOLLOW	CT0051-A - CT0053-A	ST1017
18	GRADE SEPARATION - BURCHELL AVE	CT0054-A - CT0056-A	ST1018
19	GRADE SEPARATION - PLAINSBURG RD	CT0057-A - CT0059-A	ST1019
20	GRADE SEPARATION - ARBOLEDA DR	CT0060-A - CT0062-A	ST1020
64	GRADE SEPARATION - G STREET	CT0149-A	ST1180
65	GRADE SEPARATION - AVENUE 7	CT0146-A - CT0148-A	ST1070
43	CALTRANS - AVENUE 8	CT2000-A - CT2003-A	ST1000
44	CALTRANS - SR 145	CT2004-A - CT2006-A	
46	LOCAL ROAD - ROAD 30 1/2	CR4000-A	

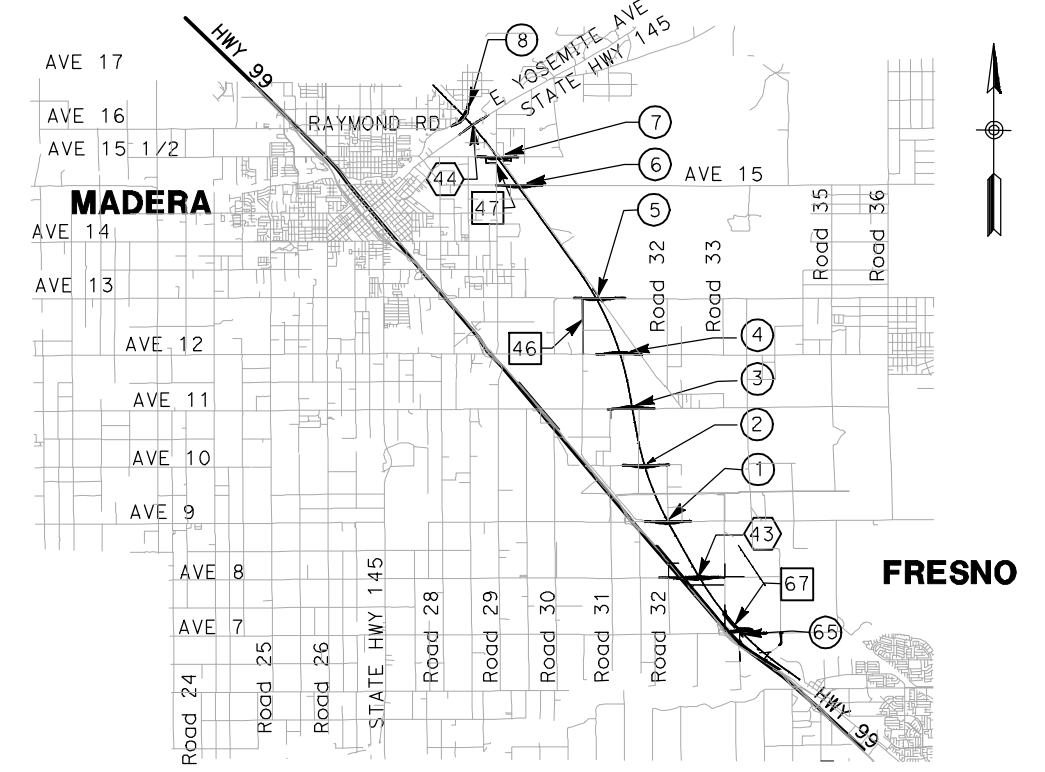
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
47	LOCAL ROAD - ROAD 29	CR4001-A	
53	LOCAL ROAD - SANTA FE AVE	CR4007-A - CR4009-A	
54	LOCAL ROAD - SANTA FE AVE (SOUTH)	CR4009-A	
55	LOCAL ROAD - BURCHELL RD	CR4010-A	
28	GRADE SEPARATION - AVENUE 24	CT0100-A - CT0102-A	ST1030
29	GRADE SEPARATION - AVENUE 26	CT0103-A - CT0106-A	ST1031 - ST1032
30	GRADE SEPARATION - ROAD 21	CT0107-A - CT0109-A	ST1033
31	GRADE SEPARATION - AVENUE 24	CT0110-A - CT0112-A	ST1034
32	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
33	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
34	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
35	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
36	GRADE SEPARATION - AVENUE 23 1/2	CT0125-A - CT0127-A	ST1041
37	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
38	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
39	GRADE SEPARATION - ROAD 14	CT0134-A - CT0136-A	ST1044
40	GRADE SEPARATION - ROAD 13	CT0137-A - CT0139-A	ST1045
41	GRADE SEPARATION - ROAD 10	CT0140-A - CT0142-A	ST1046
42	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1047
45	CALTRANS - SR 233	CT0210-A - CT0212-A	ST1150
61	LOCAL ROAD - AVENUE 23 1/2	CR4100-A - CR4101-A	
66	LOCAL ROAD - PROP W. FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-A	



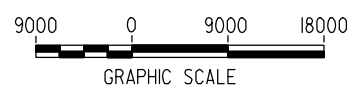
VICINITY MAP 4



VICINITY MAP 1



VICINITY MAP 3



FOR ROADWAY STRUCTURES
SEE STRUCTURAL
INDEX MAPS

- LOCATION NUMBER LEGEND**
- (X) - INDICATES GRADE SEPARATION
 - (X) - INDICATES CALTRANS FACILITIES MODIFICATION
 - (X) - INDICATES LOCAL ROAD RELOCATION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
07/20/2011

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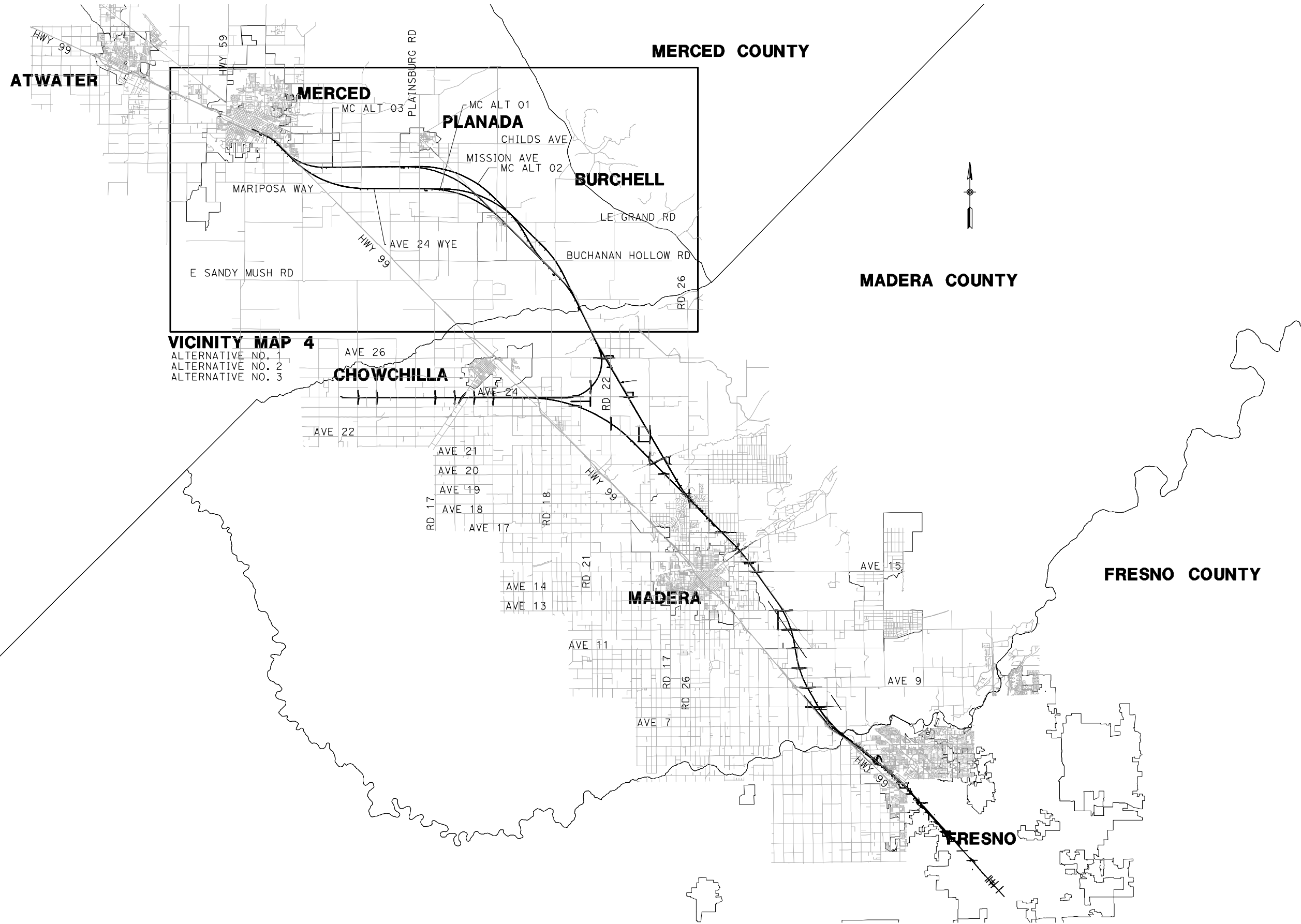


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 24 WYE

INDEX MAP
SHEET 2 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
B0118-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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VICINITY MAP 4
 ALTERNATIVE NO. 1
 ALTERNATIVE NO. 2
 ALTERNATIVE NO. 3

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A. BOONE
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AECOM
 Technical Services, Inc.
 2020 L Street, Suite 300
 Sacramento, CA 95811

CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 24 WYE
 MC-ALTERNATIVES NO. 1, NO. 2, & NO. 3

INDEX MAP
 SHEET 3 OF 4

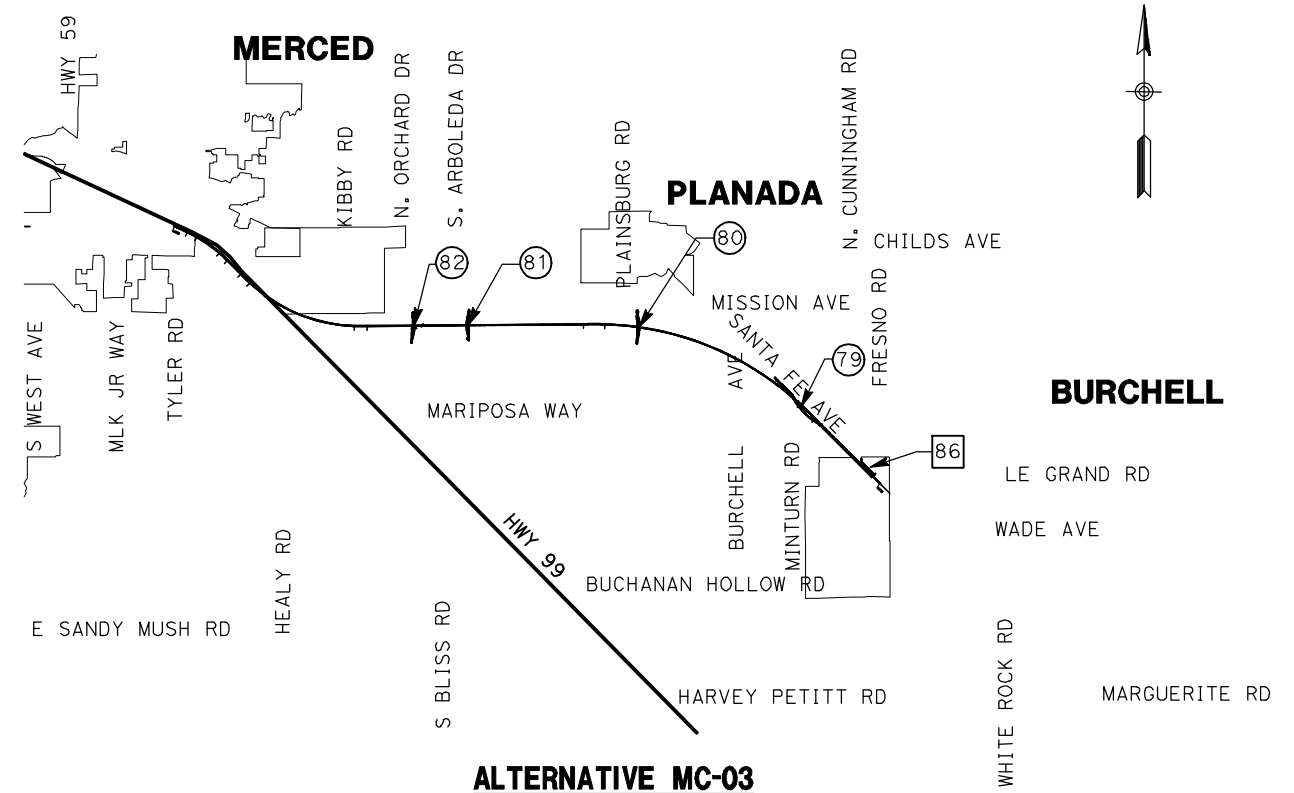
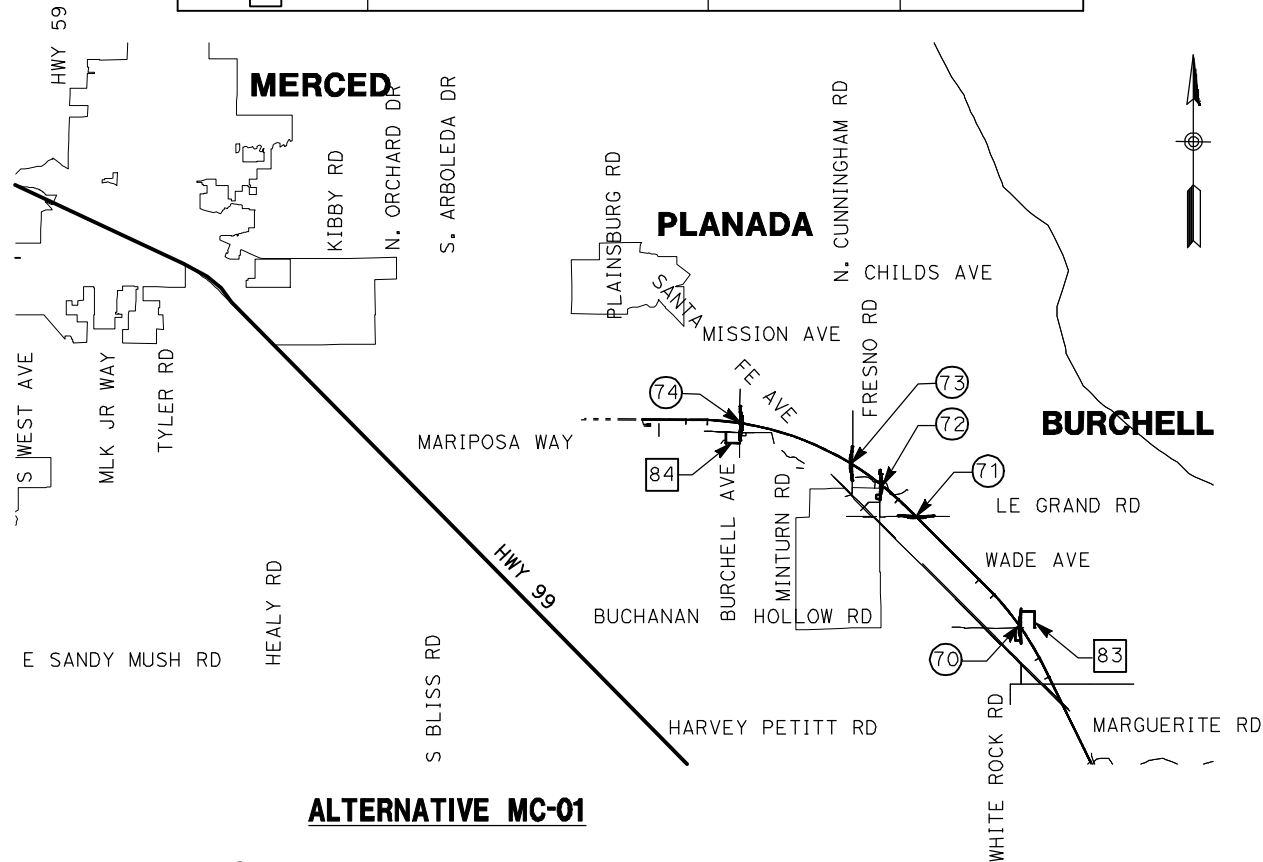
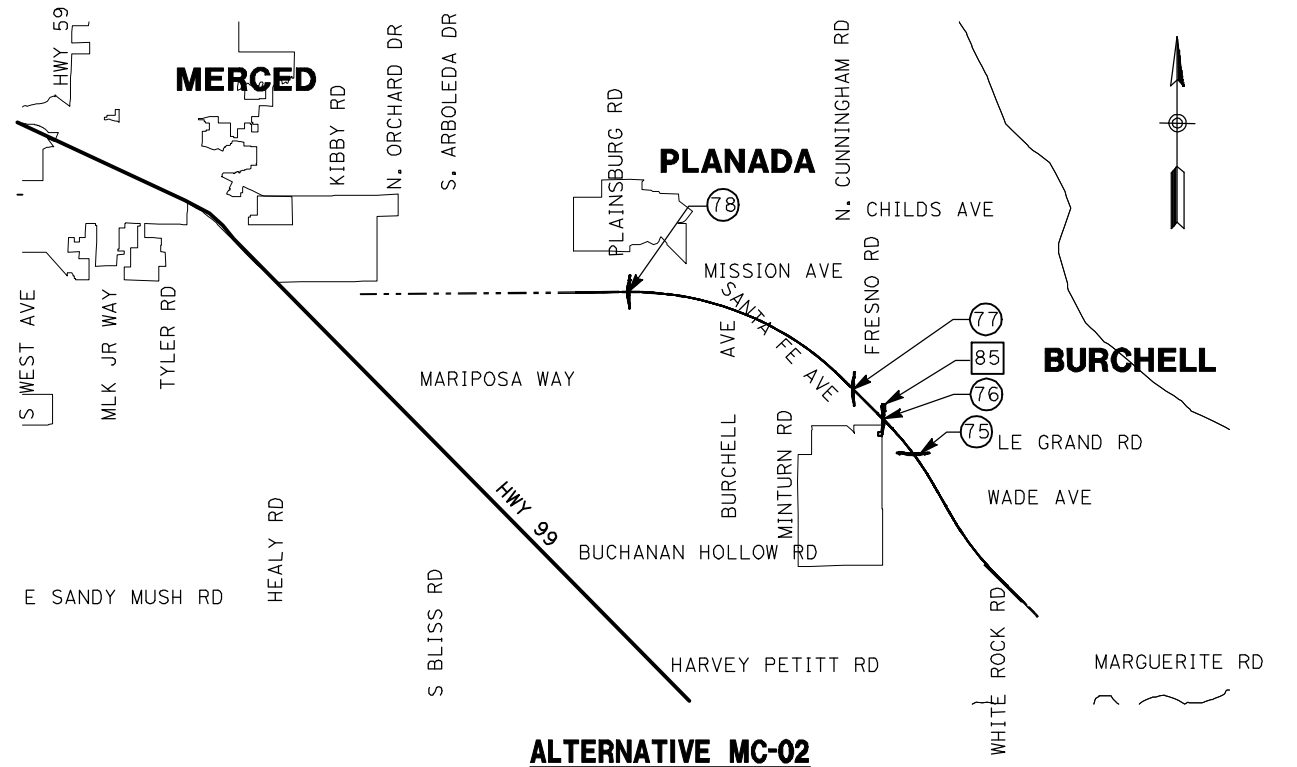
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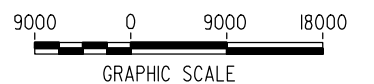
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70	GRADE SEPARATION - WHITE ROCK RD	CT0200-A - CT0202-A	ST1050
71	GRADE SEPARATION - LE GRAND RD	CT0203-A - CT0205-A	ST1051
72	GRADE SEPARATION - S. FRESNO RD	CT0206-A - CT0208-A	ST1052
73	GRADE SEPARATION - S. CUNNINGHAM RD	CT0209-A - CT0211-A	ST1053
74	GRADE SEPARATION - S. BURCHELL AVE	CT0212-A - CT0214-A	ST1054
75	GRADE SEPARATION - LE GRAND RD	CT0250-A - CT0252-A	ST1055
76	GRADE SEPARATION - S. FRESNO RD	CT0253-A - CT0255-A	ST1056
77	GRADE SEPARATION - S. CUNNINGHAM RD	CT0256-A - CT0258-A	ST1057
78	GRADE SEPARATION - PLAINSBURG RD	CT0259-A - CT0261-A	ST1058
79	GRADE SEPARATION - S. SANTA FE AVE	CT0300-A - CT0302-A	ST1059
80	GRADE SEPARATION - PLAINSBURG RD	CT0303-A - CT0305-A	ST1060
81	GRADE SEPARATION - S. ARBOLEDA RD	CT0306-A - CT0308-A	ST1061
82	GRADE SEPARATION - S. ORCHARD DR	CT0309-A - CT0311-A	ST1062
83	LOCAL ROAD - WHITE ROCK	CR4200-A - CR4201-A	
84	LOCAL ROAD - BURCHELL	CR4202-A	
85	LOCAL ROAD - FRESNO	CR4250-A	
86	LOCAL ROAD - SANTA FE	CR4300-A - CR4301-A	



LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- (X) - INDICATES CALTRANS FACILITIES MODIFICATION
- (X) - INDICATES LOCAL ROAD RELOCATION

FOR ROADWAY STRUCTURES
SEE STRUCTURAL
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T. WALTZ
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
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07/20/2011

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 24 WYE
ALTERNATIVES NO. 1, NO. 2, & NO. 3

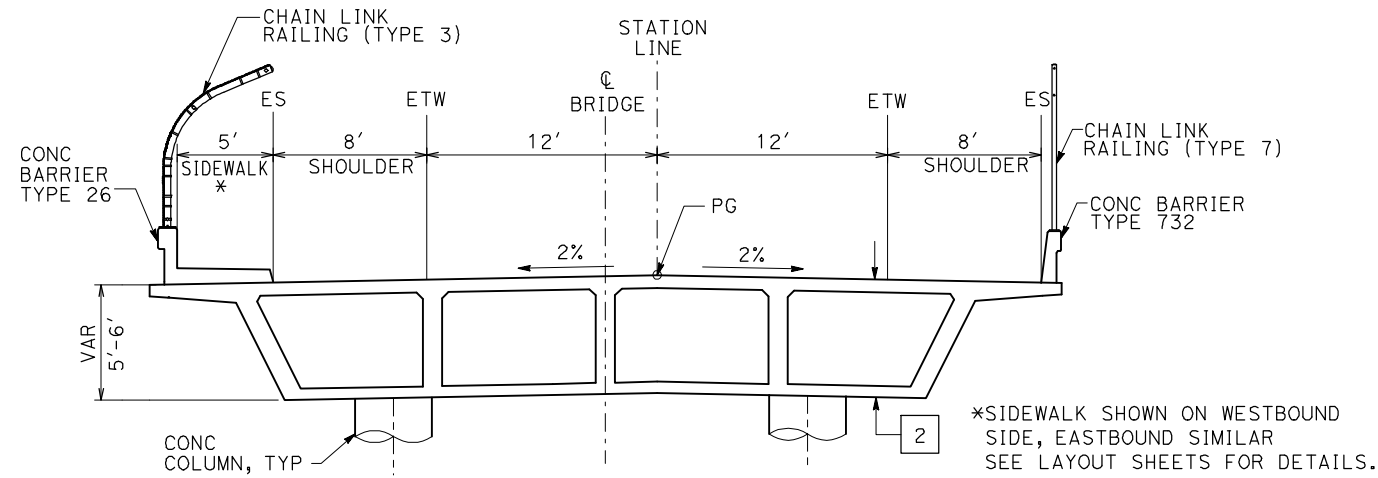
INDEX MAP
SHEET 4 OF 4

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DRAWING NO.
B0120-A
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OF

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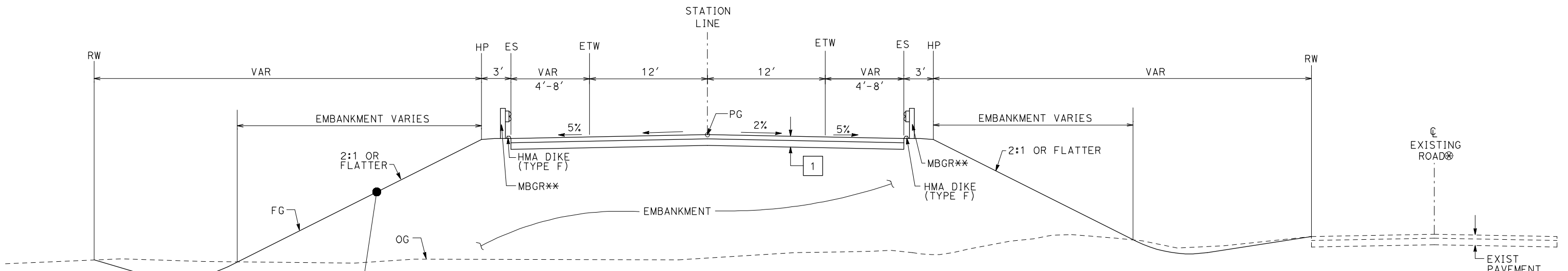
NOTES:

1. DIMENSIONS OF EXISTING PAVEMENT WIDTHS ARE BASED ON MEASUREMENTS MADE IN THE FIELD AND ARE APPROXIMATE.
2. PAVEMENT SECTIONS ARE TO BE DETERMINED. GEOTECHNICAL INVESTIGATIONS WILL BE CONDUCTED IN A SUBSEQUENT PHASE TO DETERMINE STRUCTURAL SECTIONS FOR EACH CROSSING.
3. SPACING OF BENCHES ON PROPOSED FILL SECTIONS ARE TO BE DETERMINED.
4. RIGHT-OF-WAY (R/W) WIDTH IS FOR INFORMATION ONLY. EXACT WIDTH TO BE DETERMINED IN COORDINATION WITH AFFECTED AGENCY.

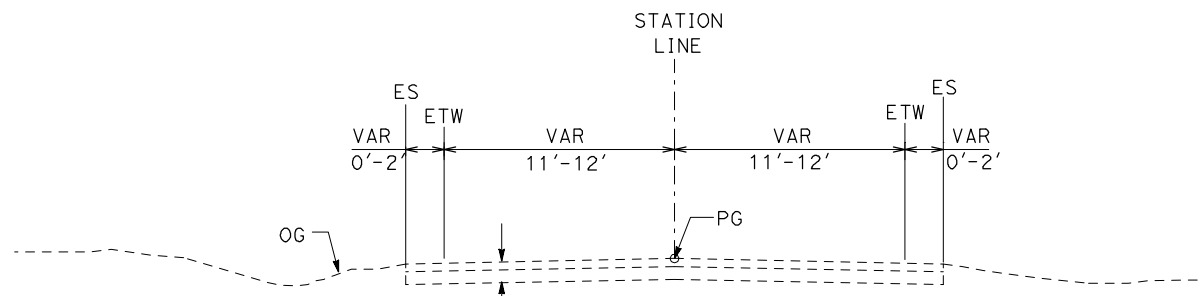
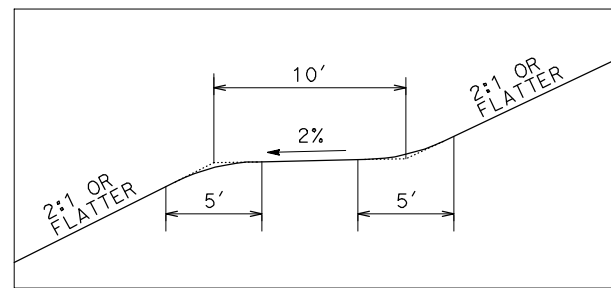


STRUCTURAL SECTIONS:

- 1 [HMA TYPE A
AB CLASS 2
- 2 [CAST IN PLACE / PRESTRESSED
BOX GIRDER (6' STRUCTURE DEPTH)
- 3 [AB CLASS 2



⊗ EXISTING ROAD LOCATION VARIES AND SHALL REMAIN OPEN DURING CONSTRUCTION. WHERE SHOWN ON THE PLAN CLOSE AND OBLITERATE EXISTING ROADWAY SUBSEQUENT TO CONSTRUCTION OF THE REALIGNED ROADWAY.
** EXACT LIMITS OF MBGR PER AGENCY REQUIREMENTS.



TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A1, AVE 21 WYE:

NO.	STREET NAME	NO.	STREET NAME
1	WHITE ROCK RD	12	AVENUE 20.5
2	LE GRAND RD	13	ROAD 24
3	S. FRESNO RD	14	ROAD 22
4	S. CUNNINGHAM RD	15	AVENUE 23.5
5	PLAINSBURG RD	16	ROAD 16
6	S. ARBOLEDA RD	17	ROAD 15
7	S. ORCHARD RD.	18	ROAD 14
8	AVENUE 24	19	ROAD 13
9	AVENUE 26	20	ROAD 10
10	ROAD 21	21	ROAD 9
11	AVENUE 20		

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. OAKS
DRAWN BY
K. OAKS
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

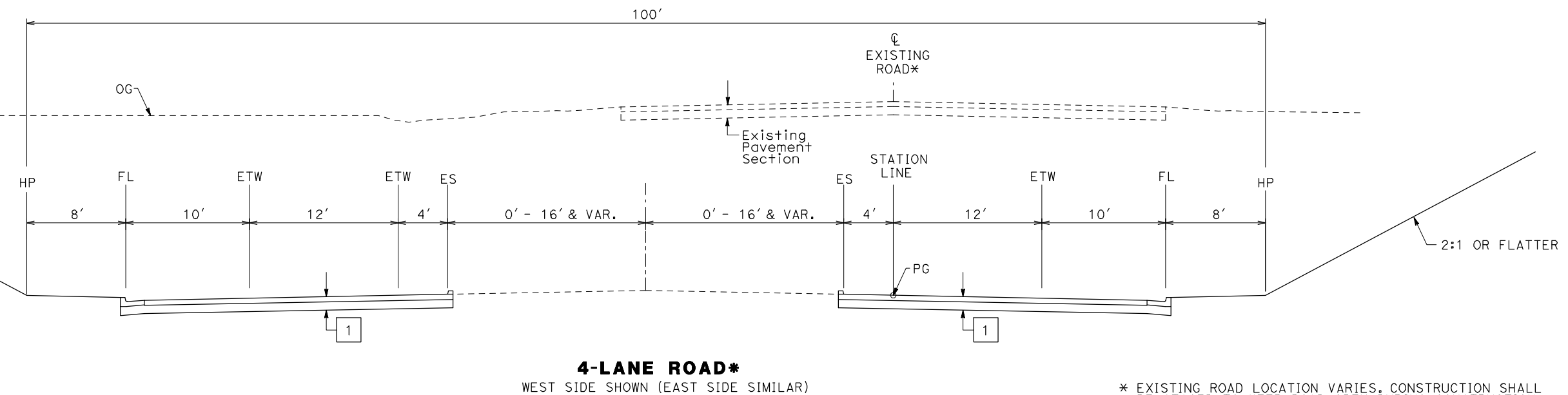
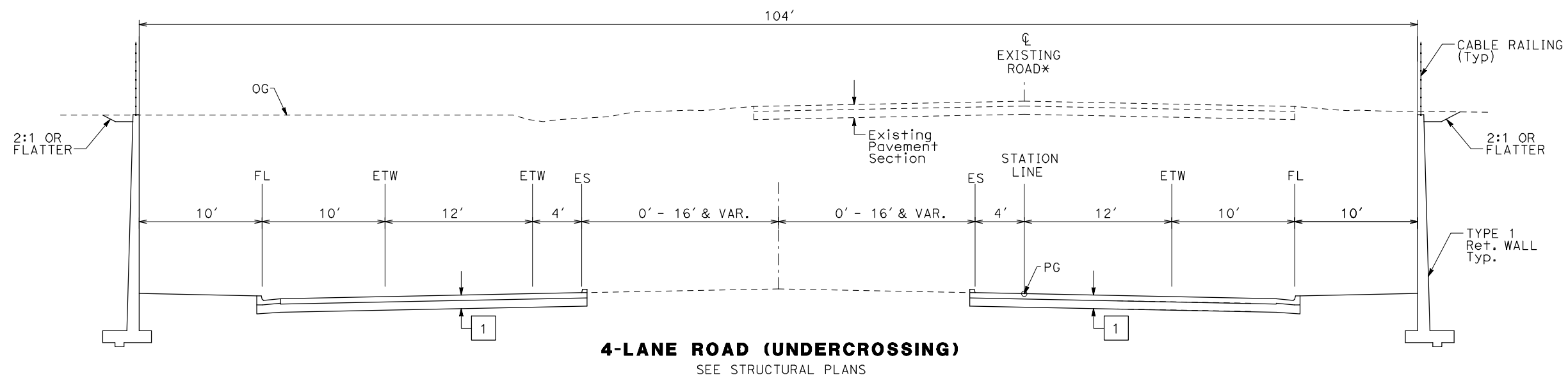
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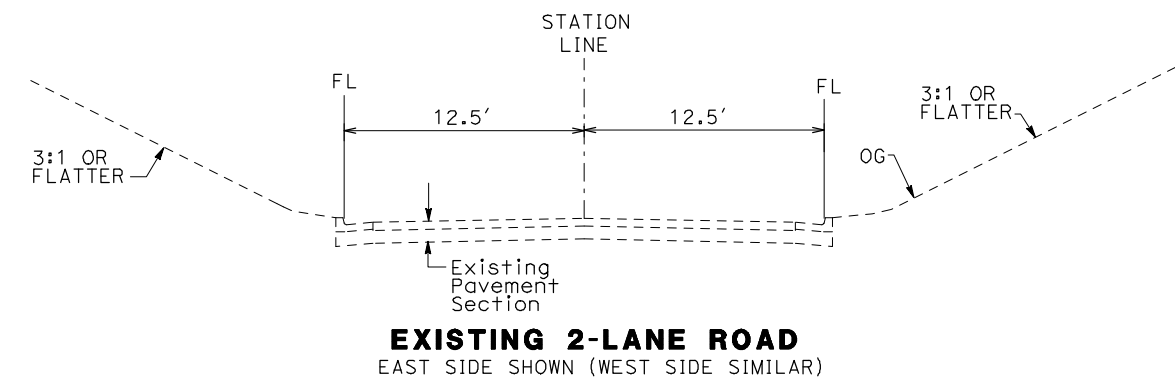


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 24 WYE
TYPICAL CROSS SECTIONS
GRADE SEPERATIONS
SHEET 1 OF 2

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0121-A
SCALE
NONE
SHEET NO.
OF



* EXISTING ROAD LOCATION VARIES. CONSTRUCTION SHALL BE STAGED TO KEEP ROAD OPEN DURING CONSTRUCTION.



TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A1:

NO.	STREET NAME
1	ROAD 26

5/1/2011 1:08:41 PM I:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave24\Volume 3A - Ave 24 Wye Local Roads\Typical Section\MF-CT-0122-A.dgn

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IN CHARGE
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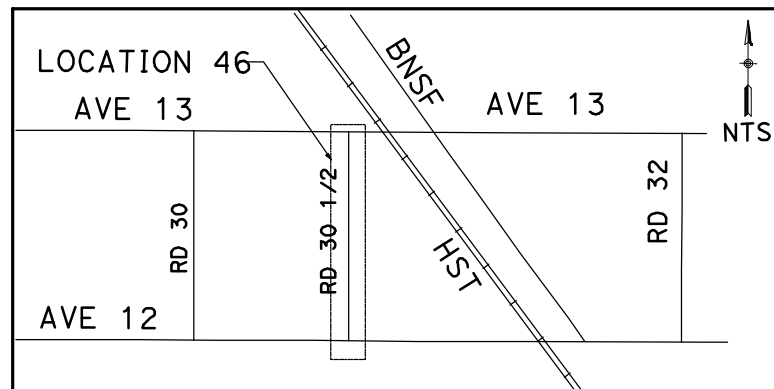
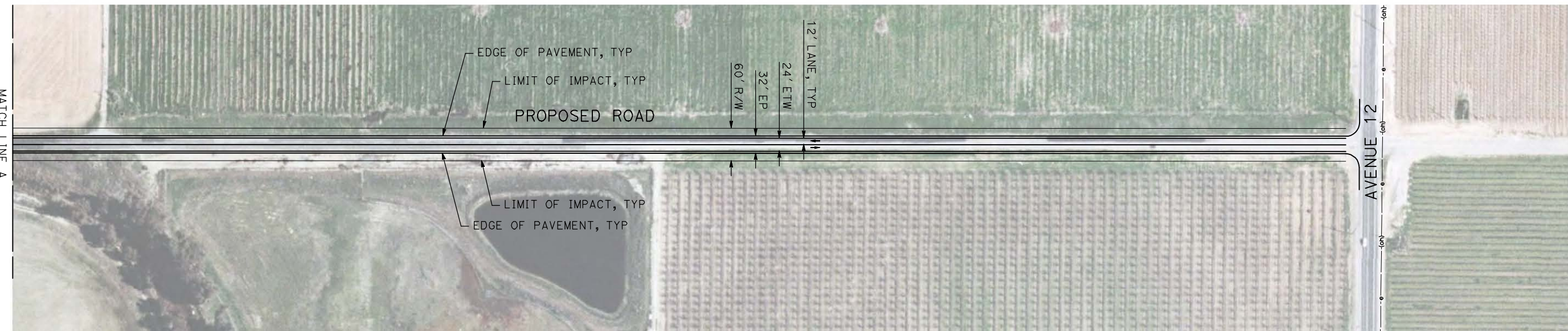
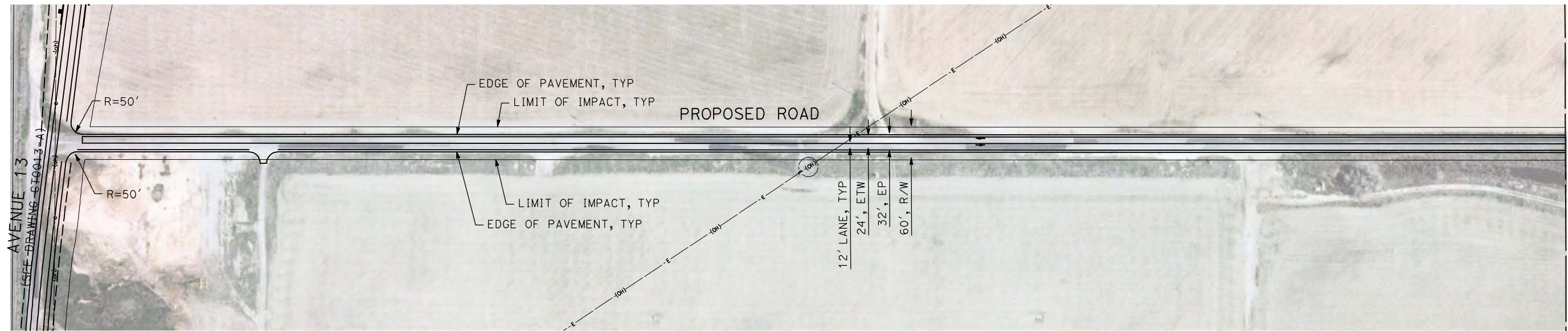
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 24 WYE
TYPICAL CROSS SECTIONS
GRADE SEPARATIONS
SHEET 2 OF 2

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0122-A
SCALE
NTS
SHEET NO.
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A. BOONE
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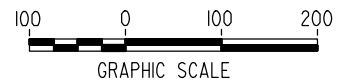
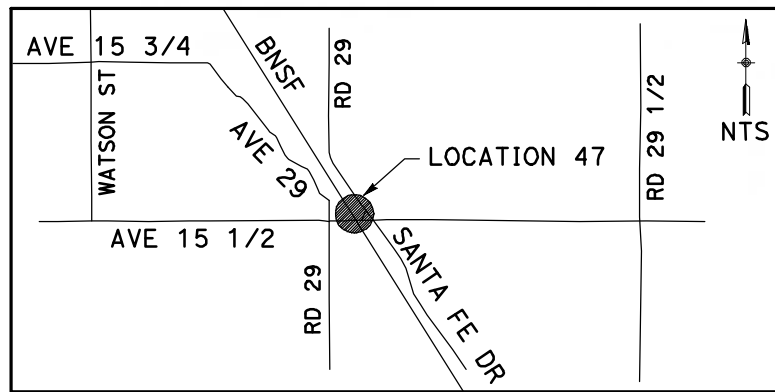
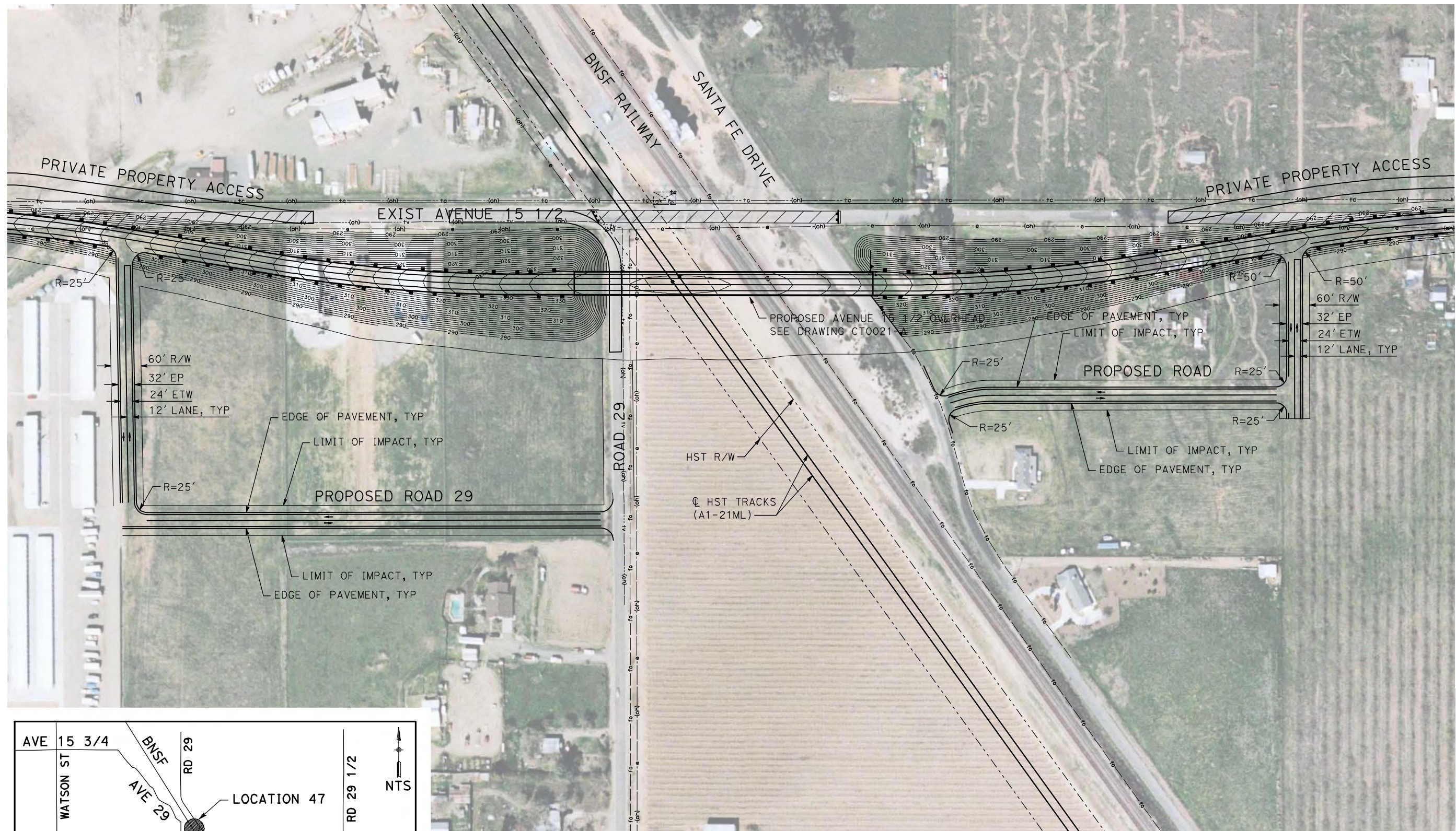
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - ROAD 30 1/2
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
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DRAWING NO.
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SCALE
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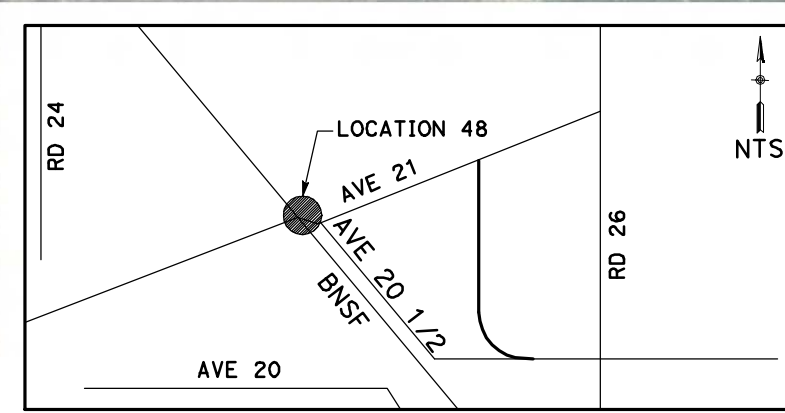
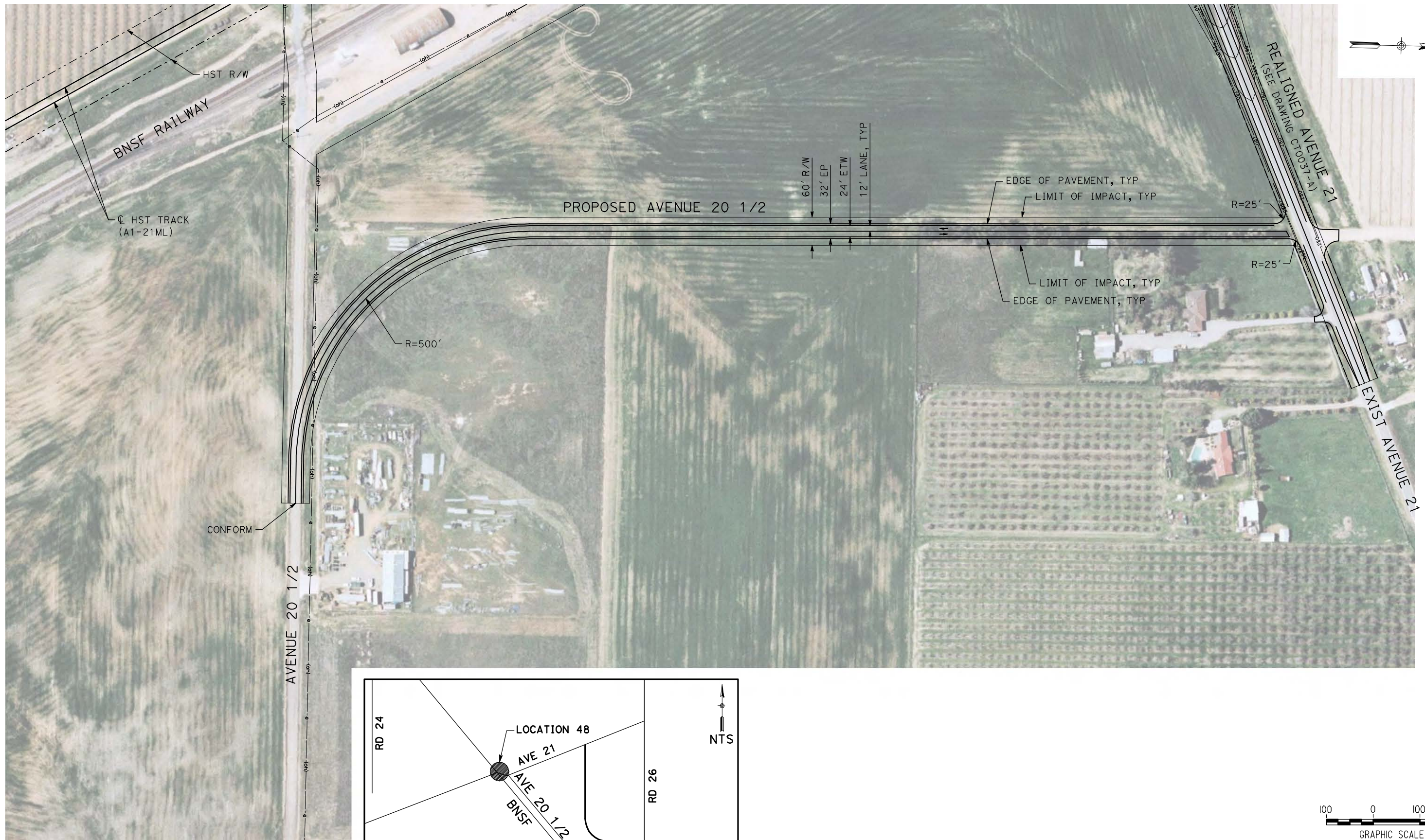
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - ROAD 29
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
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DRAWING NO.
CR4001-A
SCALE
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OF ###

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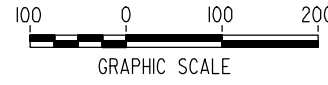
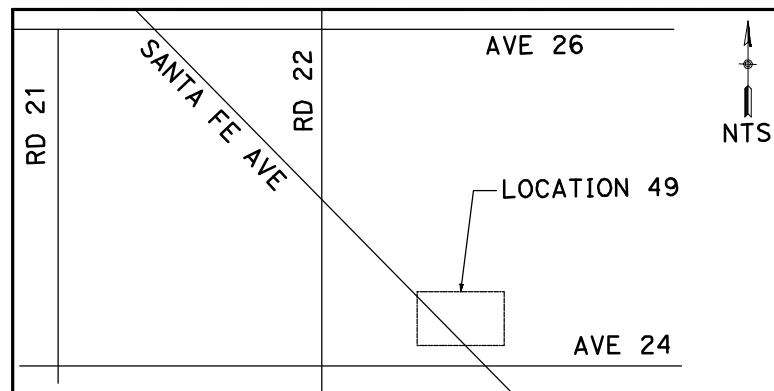
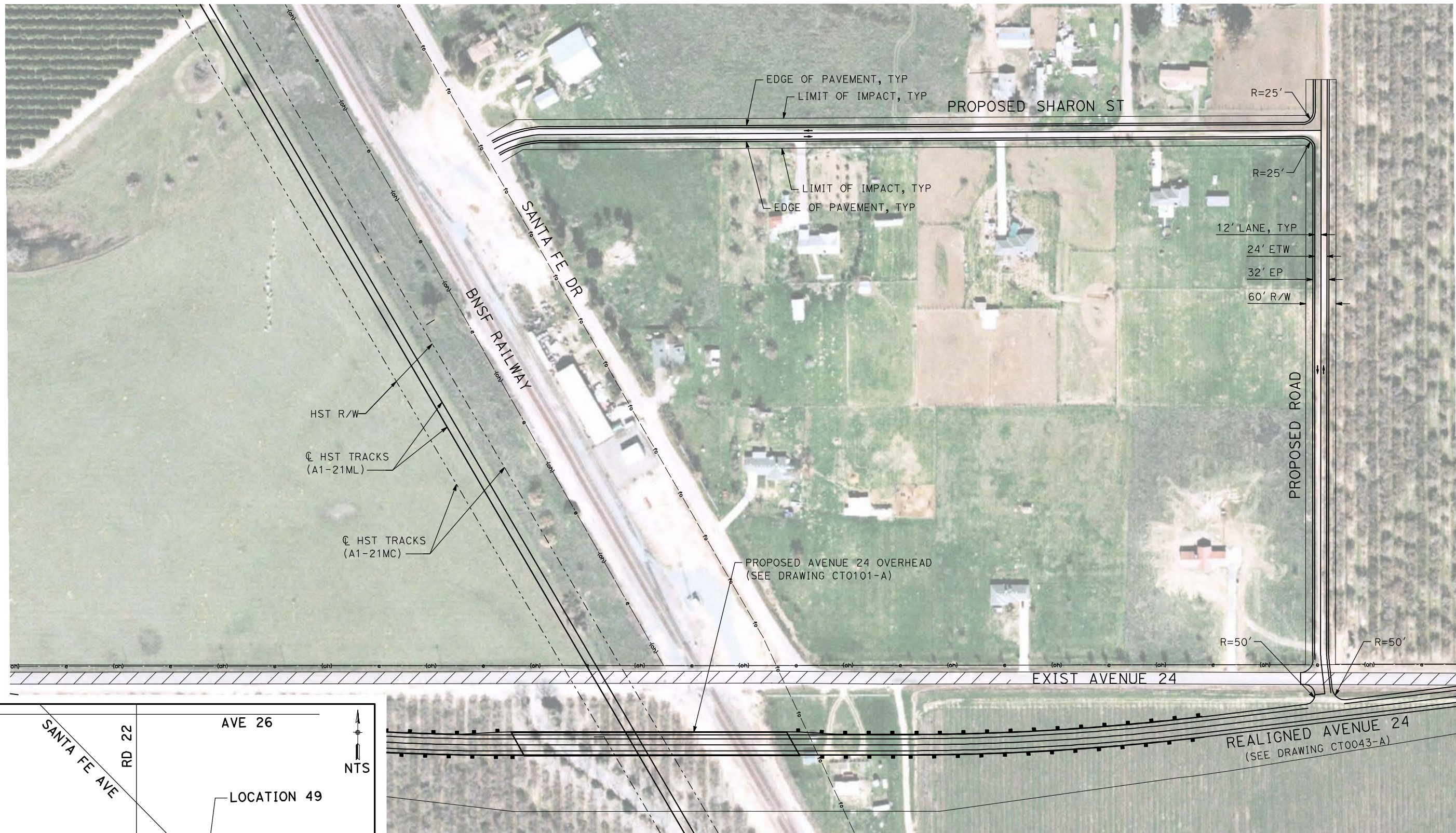
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - AVENUE 20 1/2
LAYOUT
SHEET 1 OF 1

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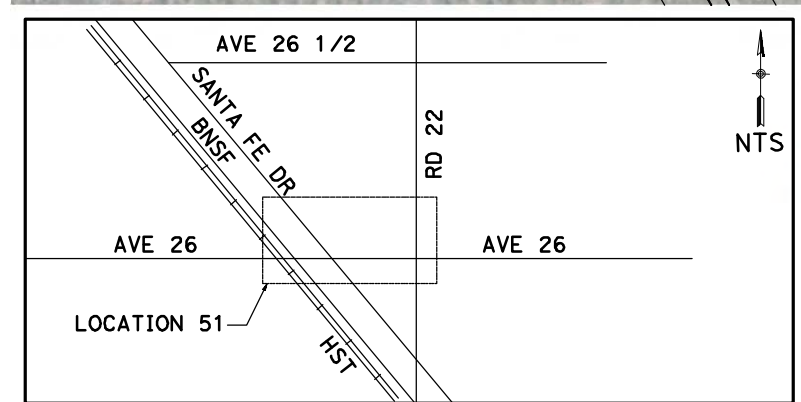
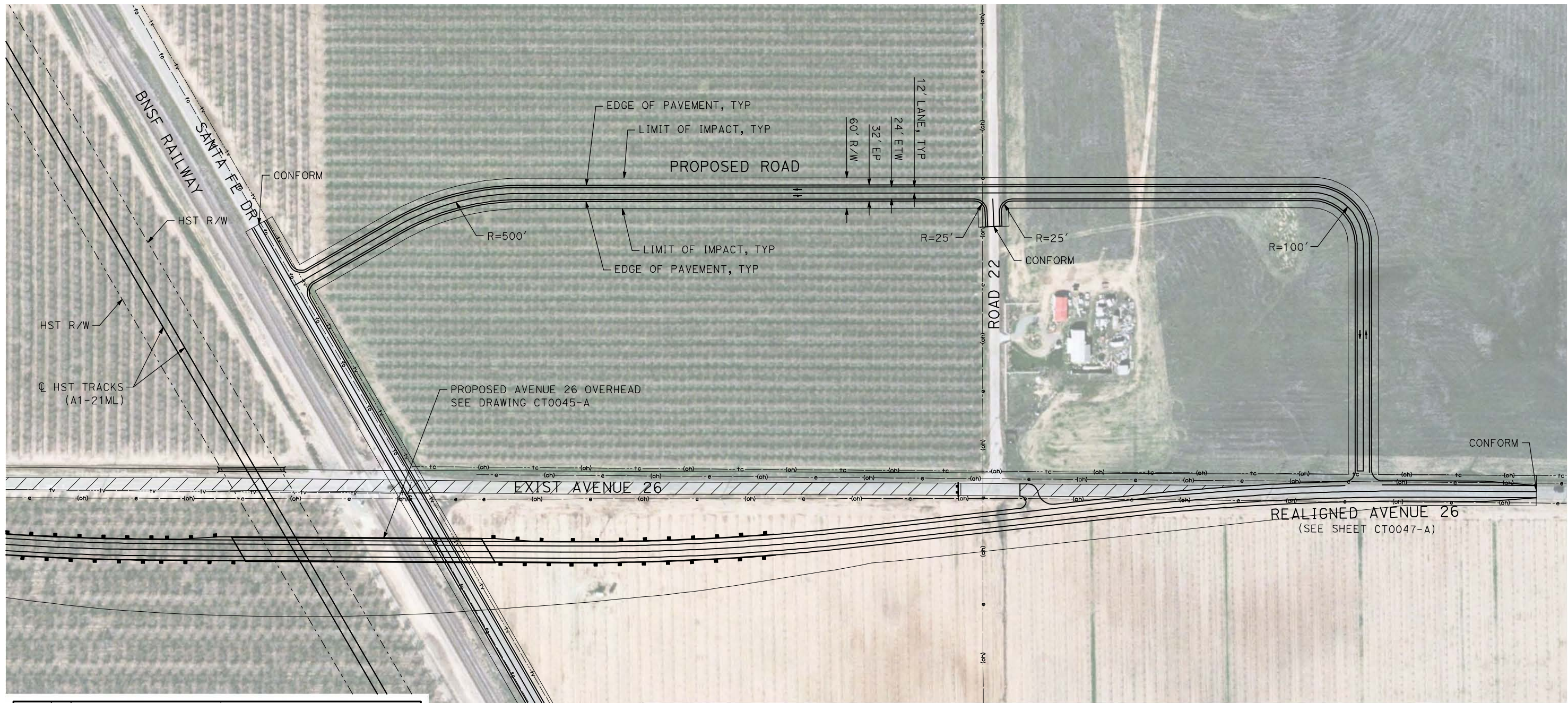
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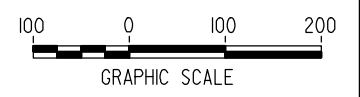
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - SHARON ST
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4003-A
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MATCH LINE
 SEE DRAWING CR4006-A



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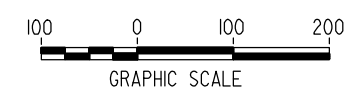
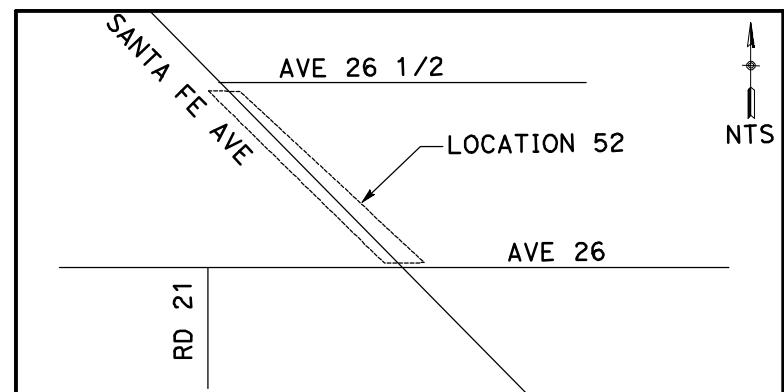
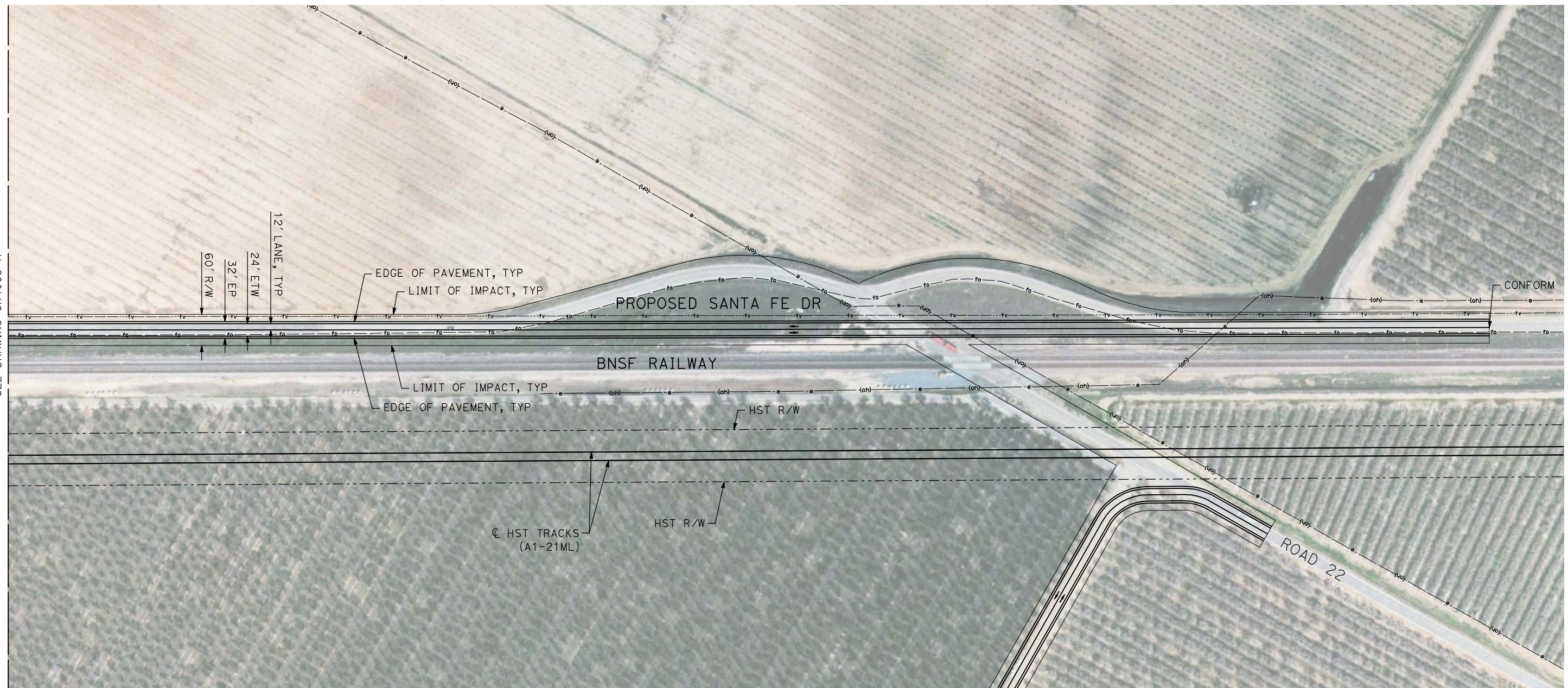


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 LOCAL ROAD - AVENUE 26
 LAYOUT
 SHEET 1 OF 1

CONTRACT NO.
 HST06-007
 DRAWING NO.
 CR4005-A
 SCALE
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MATCH LINE
SEE DRAWING CR4005-A



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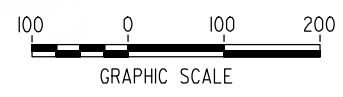
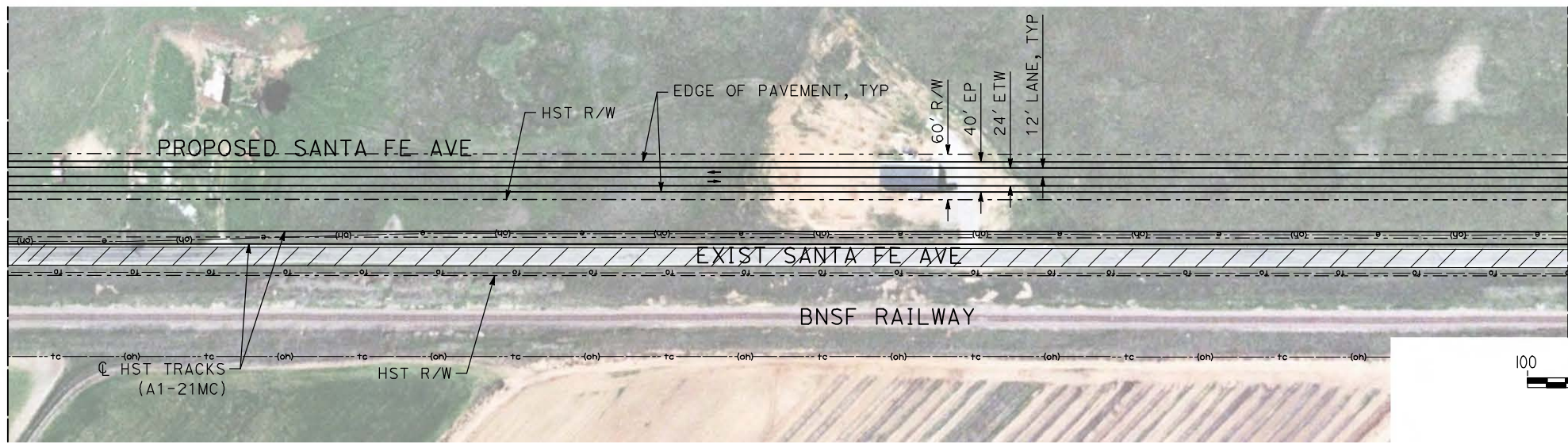
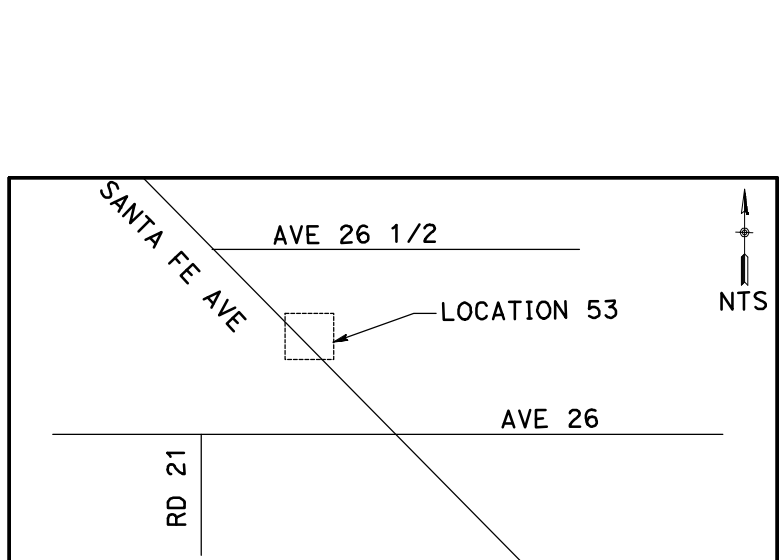
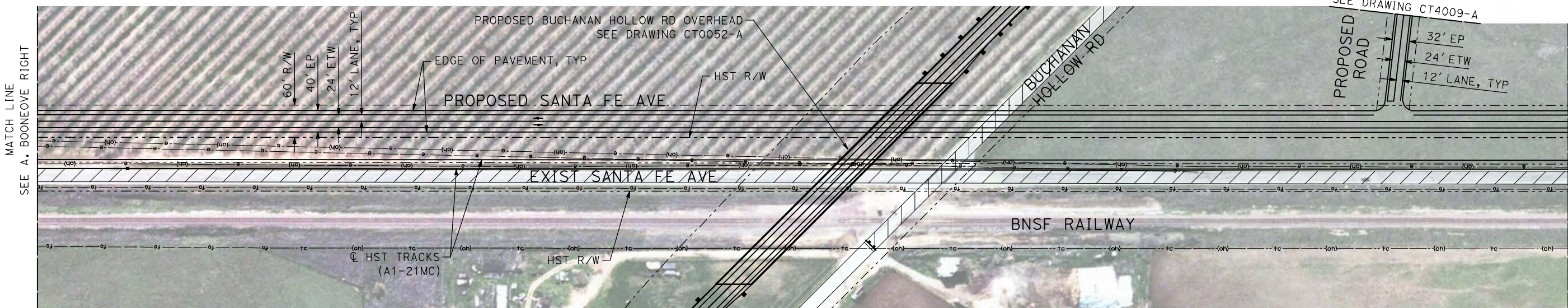
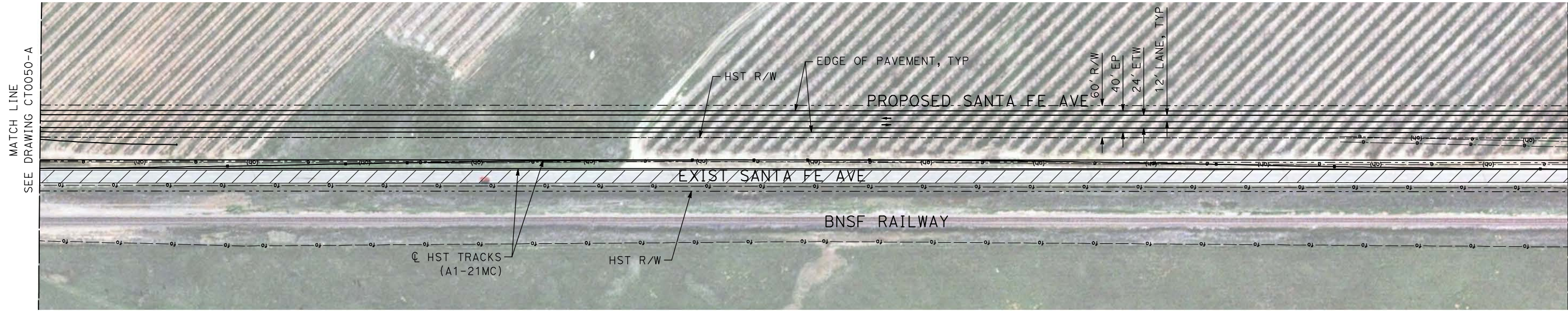
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - SANTA FE DR
LAYOUT
SHEET 2 OF 2

CONTRACT NO.
HST06-007
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CR4006-A
SCALE
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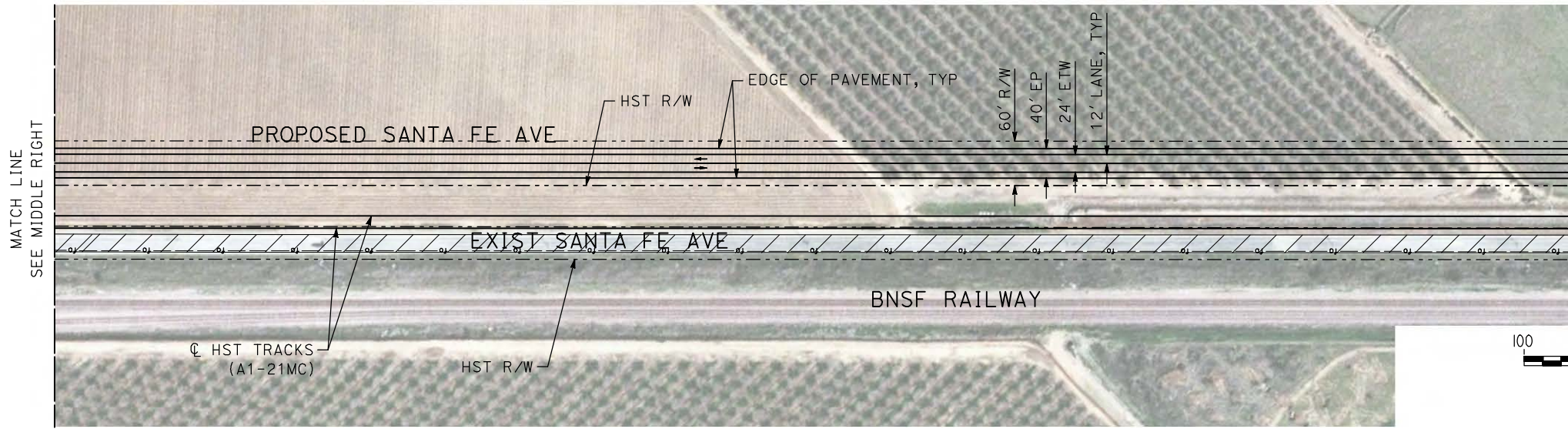
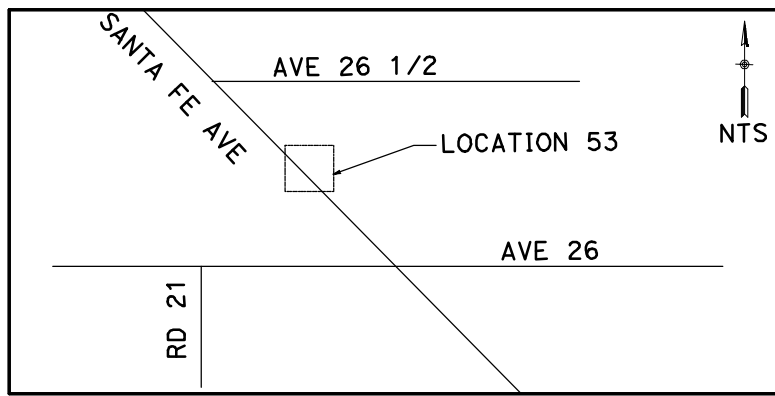
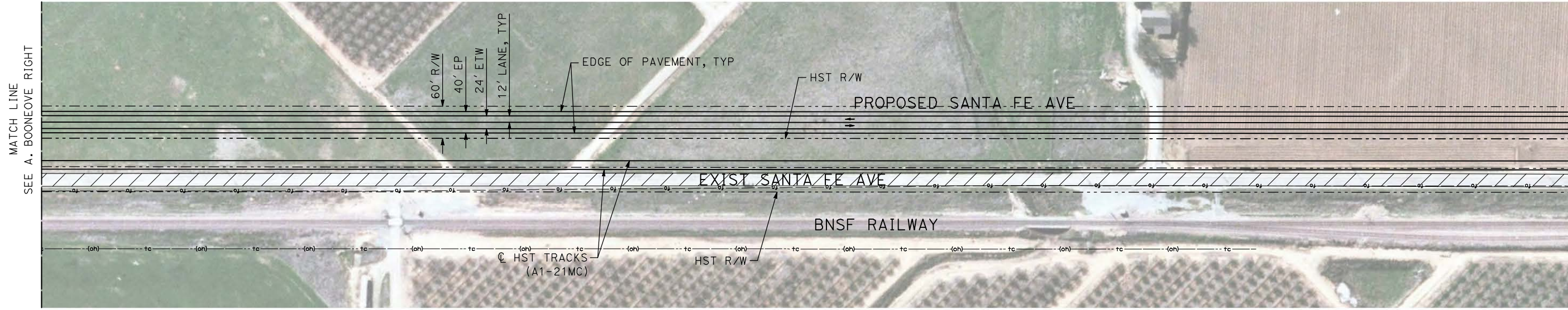
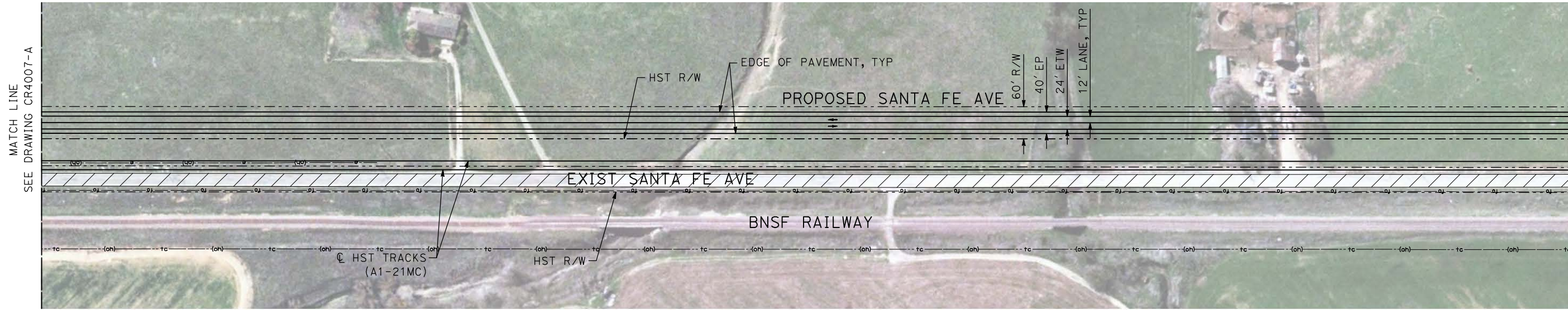
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 LOCAL ROAD - SANTA FE AVE
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
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A. BOONE

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04/29/2011

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NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - SANTA FE AVE
LAYOUT
SHEET 2 OF 3

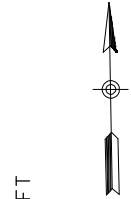
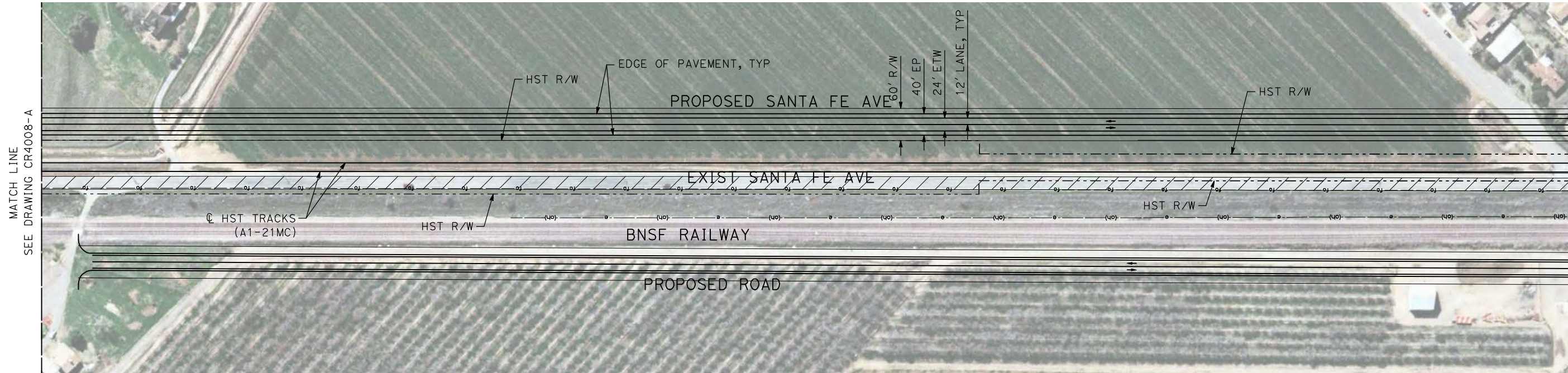
CONTRACT NO.
HST06-007

DRAWING NO.
CR4008-A

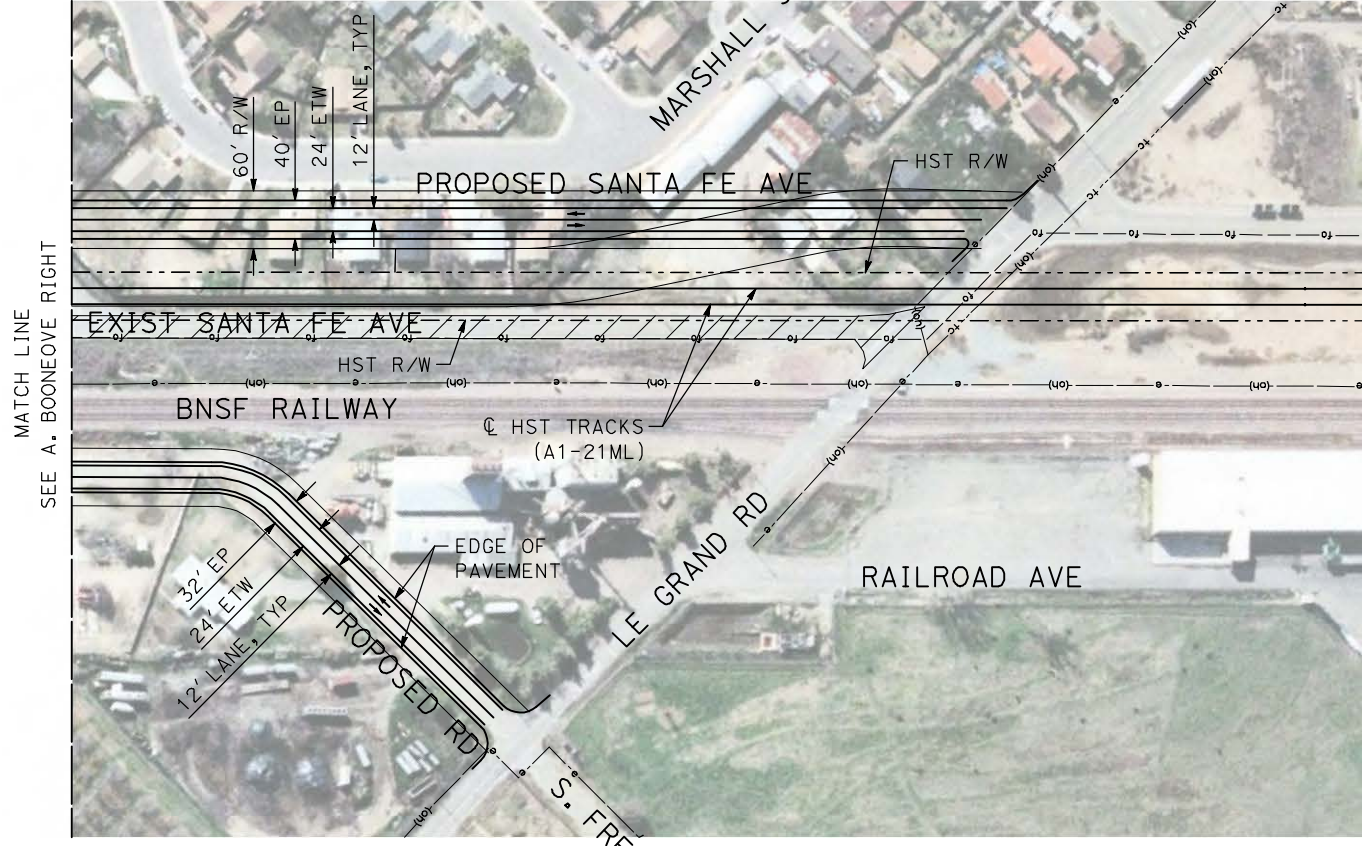
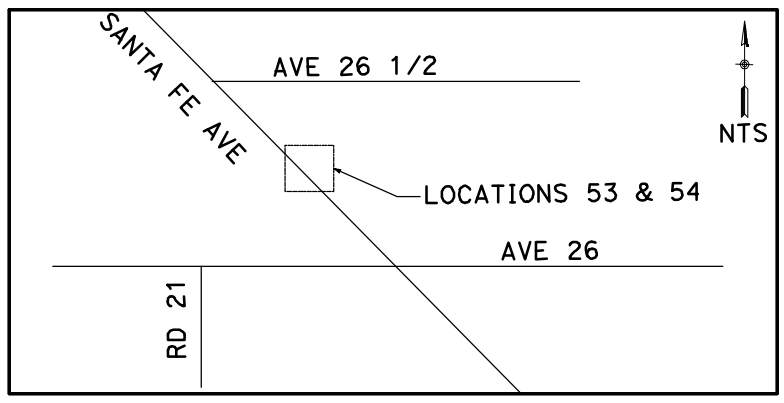
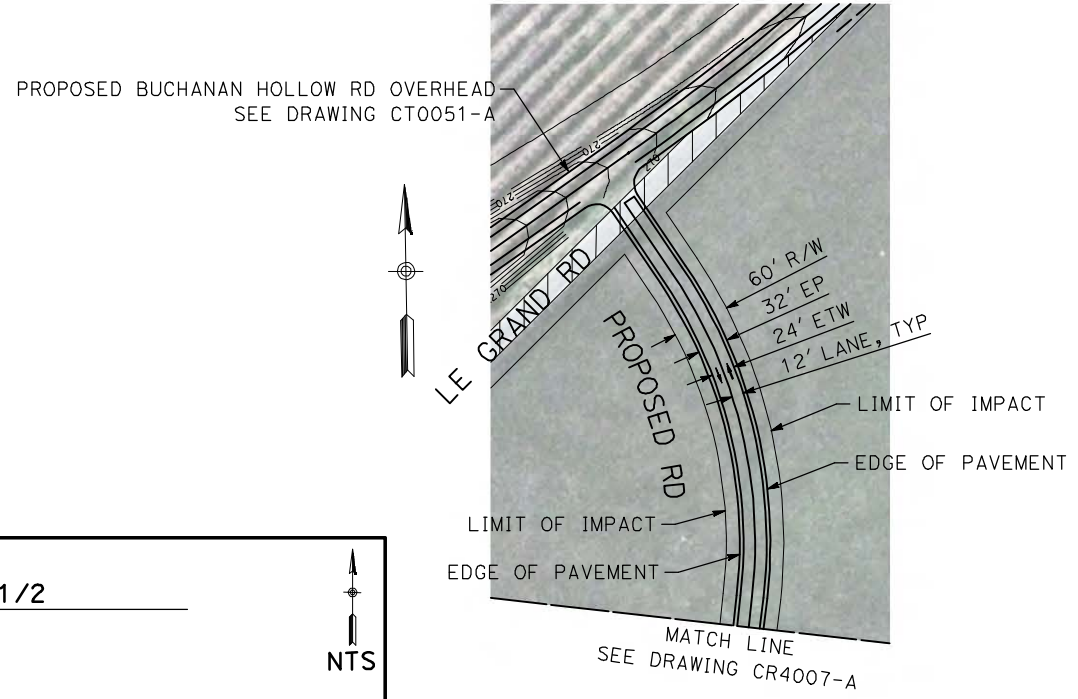
SCALE
AS SHOWN

SHEET NO.
OF ###

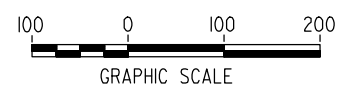
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MATCH LINE
SEE BELOW LEFT



MATCH LINE
SEE A. BOONEVEE RIGHT



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

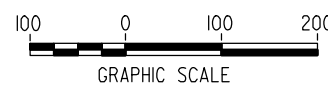
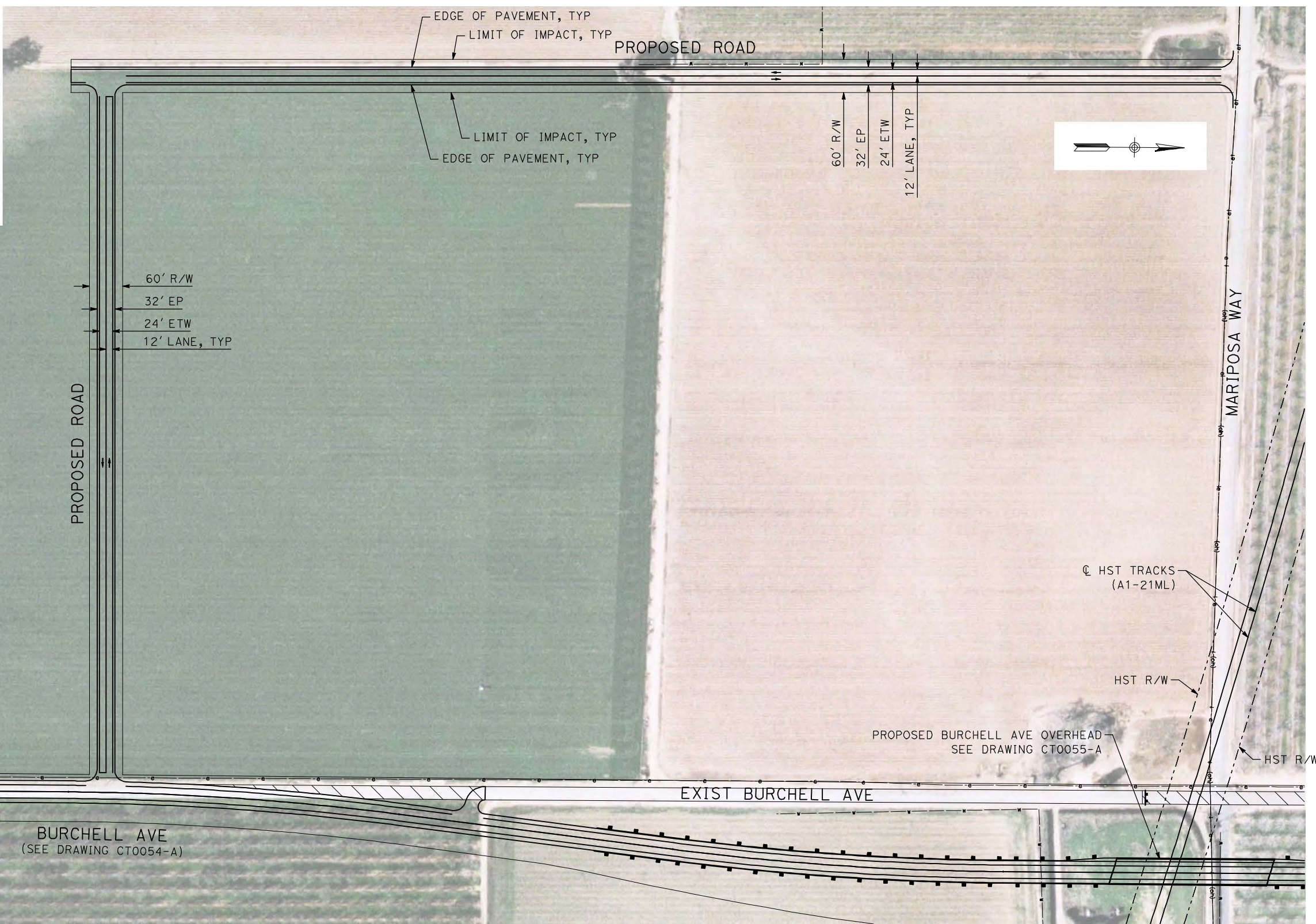
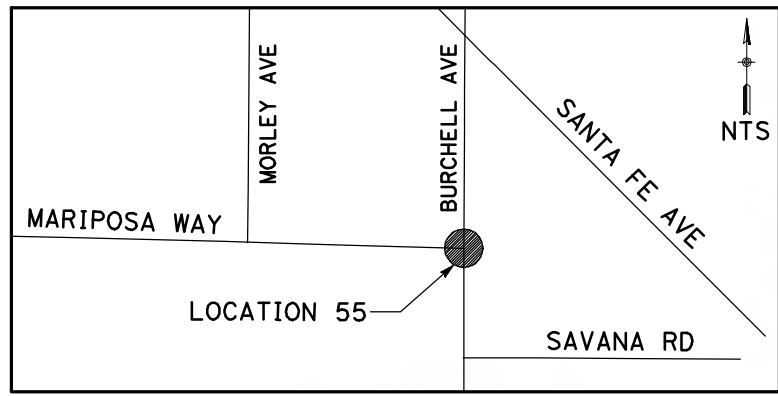
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 LOCAL ROAD - SANTA FE AVE
 LAYOUT
 SHEET 3 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CR4009-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

5/1/2011 1:10:21 PM I:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-sheet\roadway\1-ave24\volume 3a - ave 24 wye local roads\layout\COMMON with Ave 21\MF-CR-4010-A.DGN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

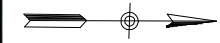
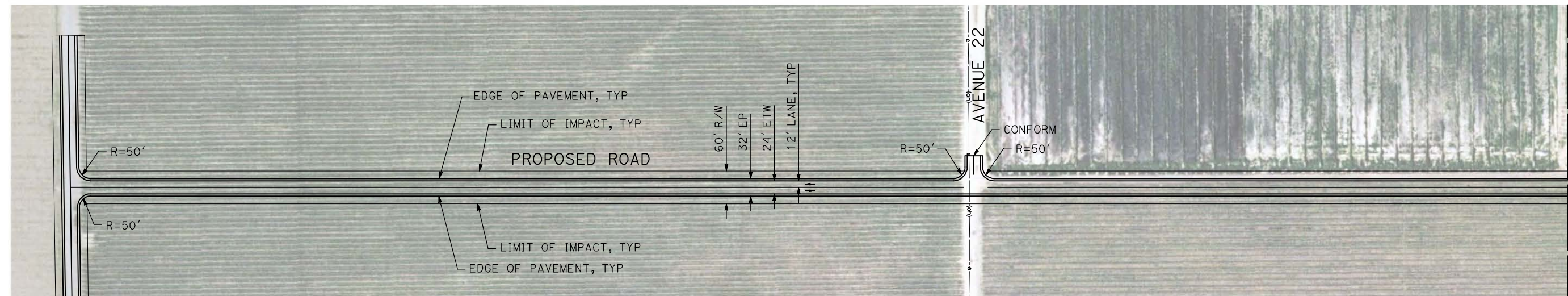
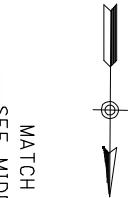
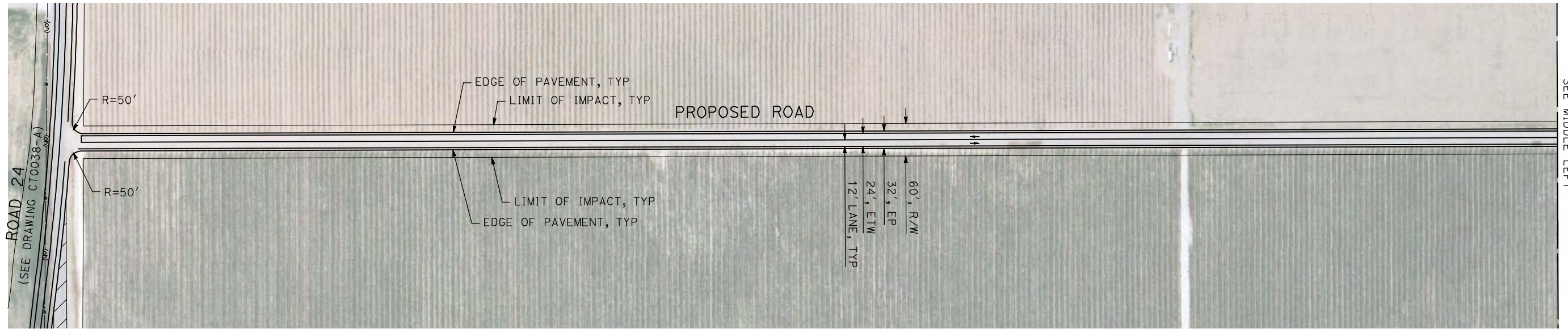
NOT FOR
CONSTRUCTION



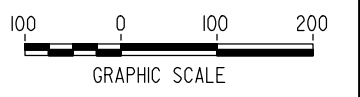
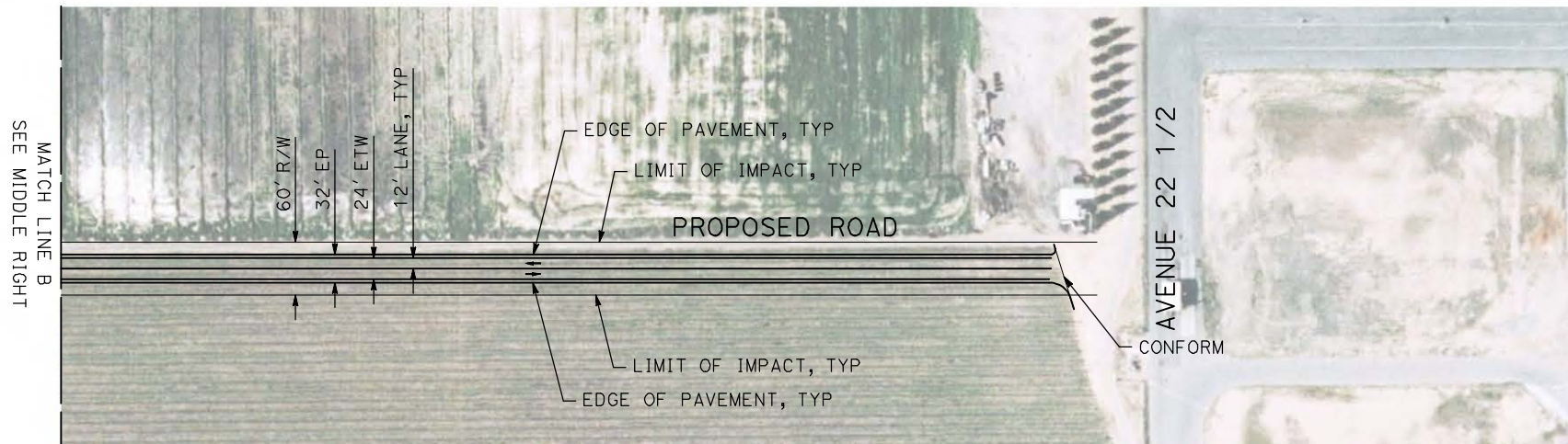
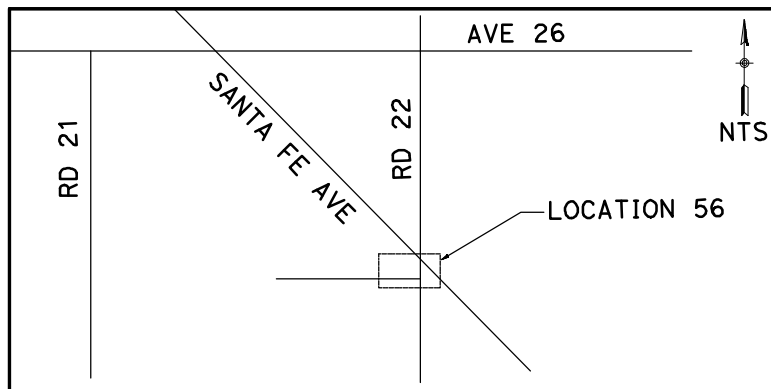
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 24 WYE
 LOCAL ROAD - BURCHELL AVE
 LAYOUT
 SHEET 1 OF 1

CONTRACT NO.
HST06-007
 DRAWING NO.
CR4010-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

GibsonR1 5/1/2011 1:10:31 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-ave24\volume 3a - ave 24 wye local roads\layout\common with Ave 21\MF-CR-4011-A.DGN



MATCH LINE A
SEE A. BOONEVEE RIGHT



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

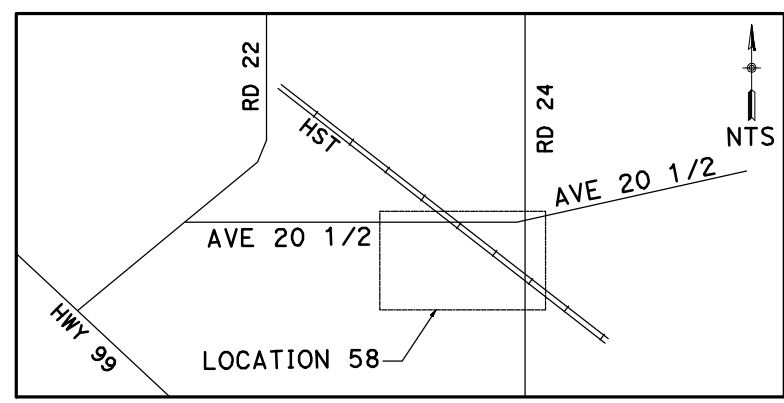
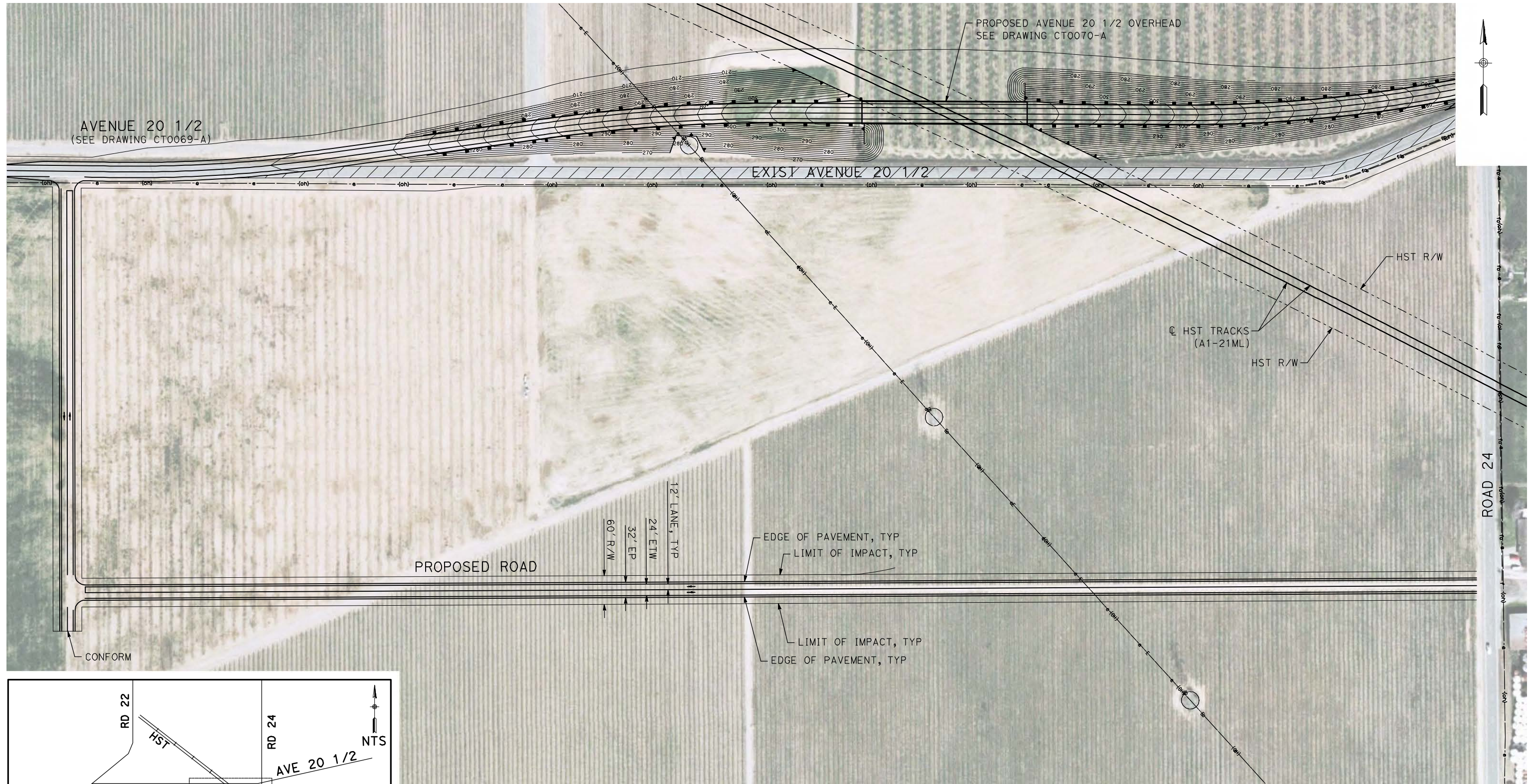
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - ROAD 24
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4011-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

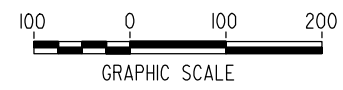
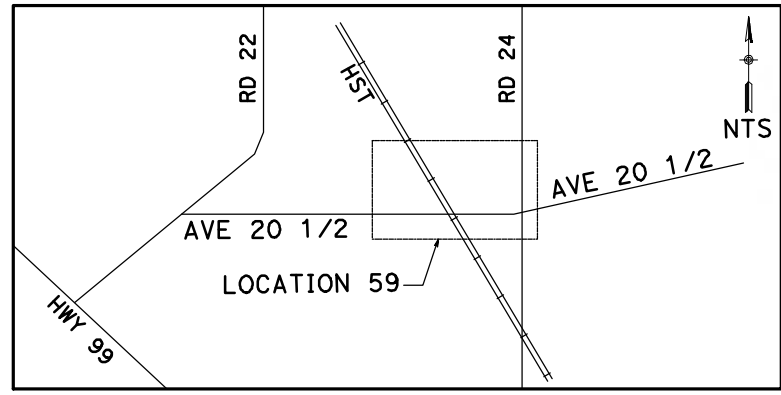
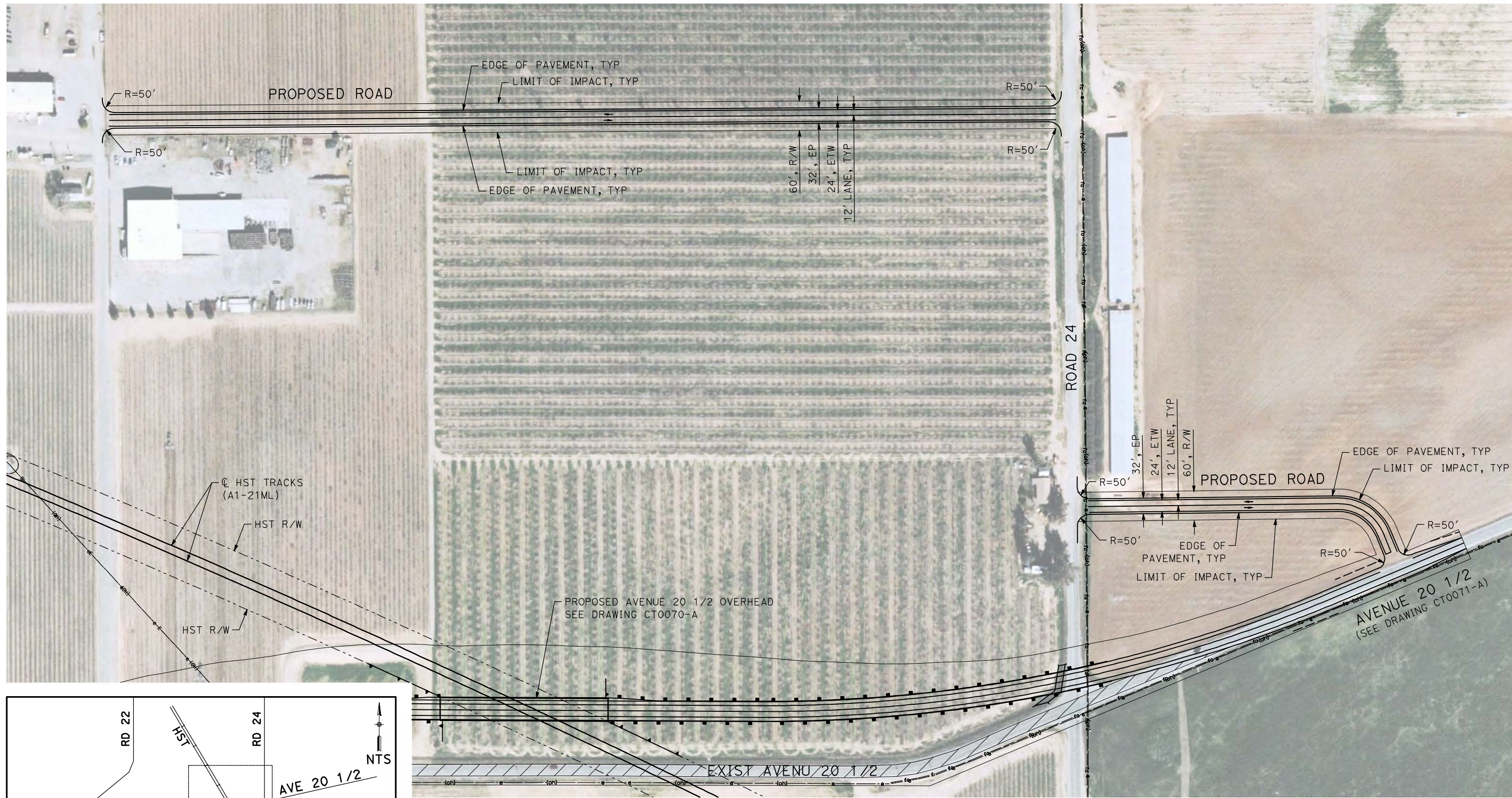


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - AVENUE 20 1/2
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4013-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

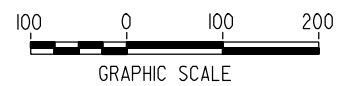
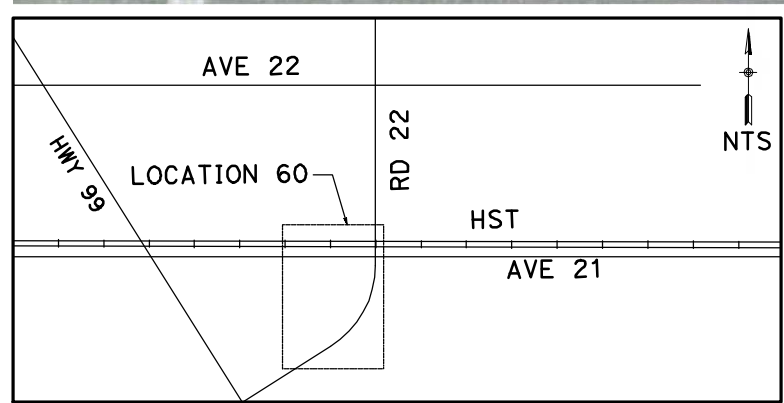
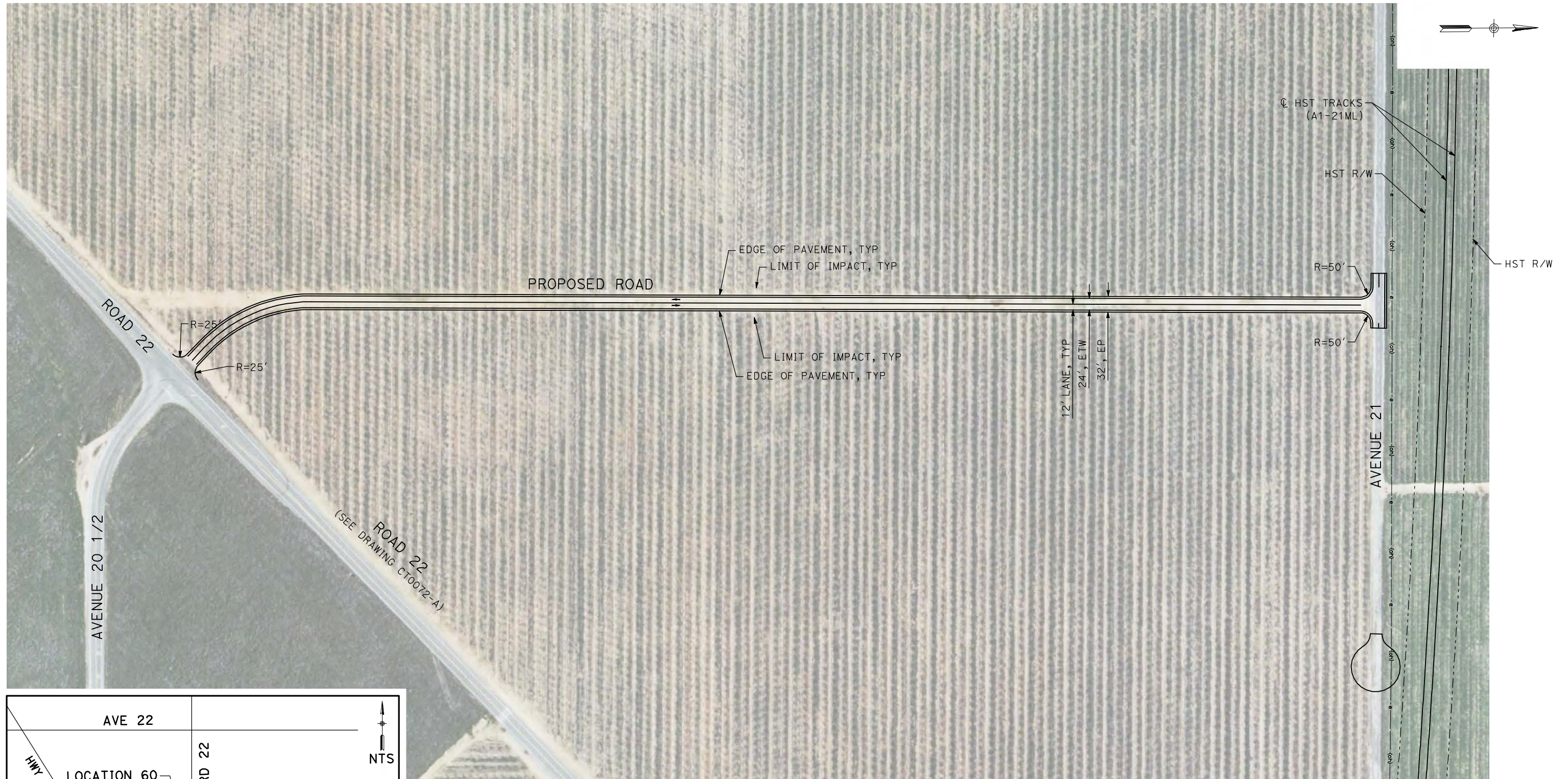
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - AVENUE 20 1/2
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4014-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

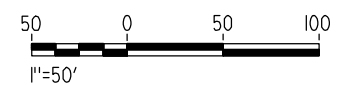
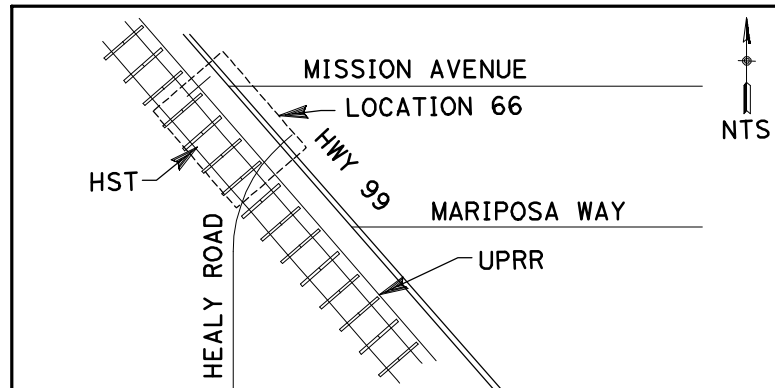
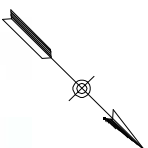
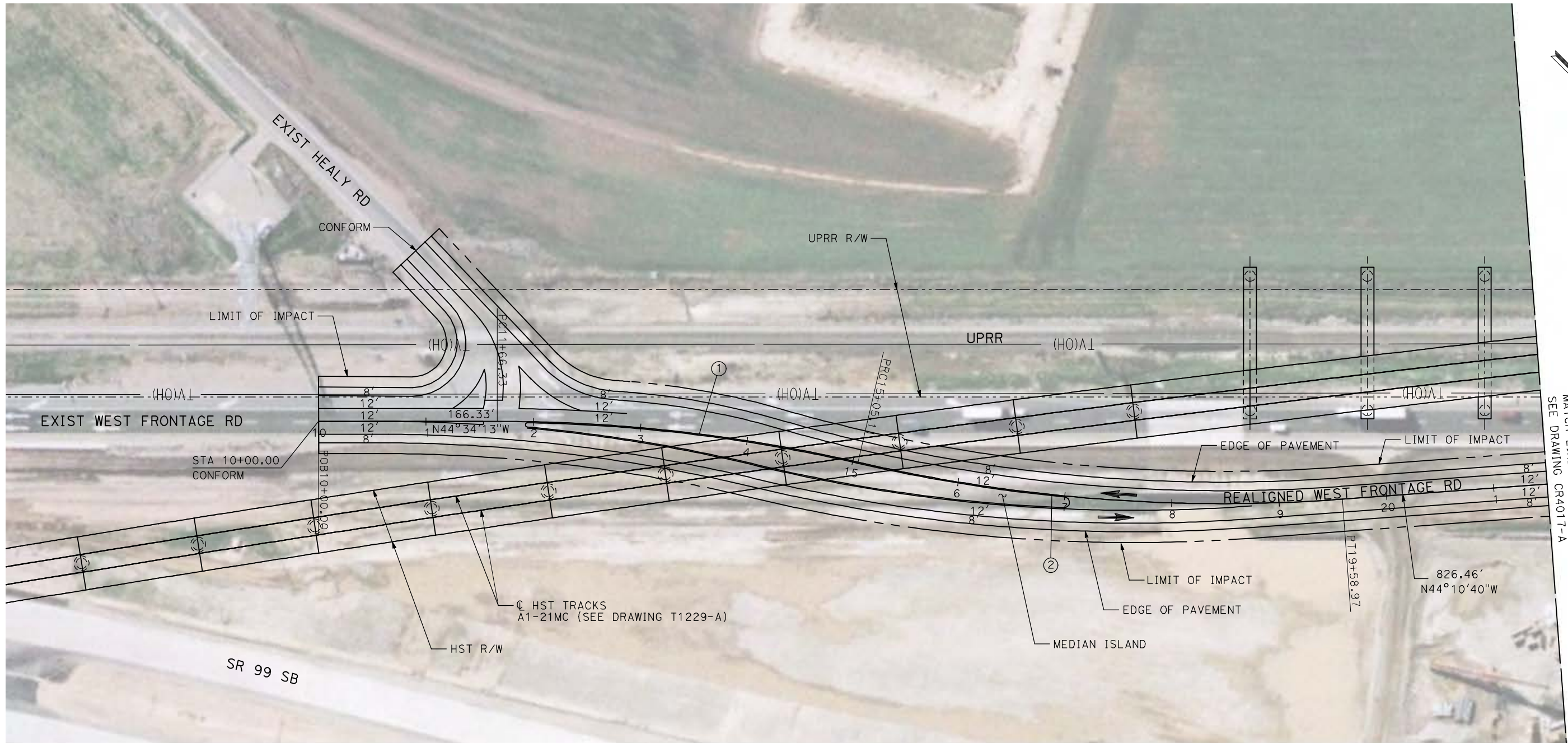
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 24 WYE
LOCAL ROAD - ROAD 22
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4015-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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 GibsonR1



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. LI
 DRAWN BY
A. TRINH
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

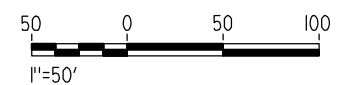
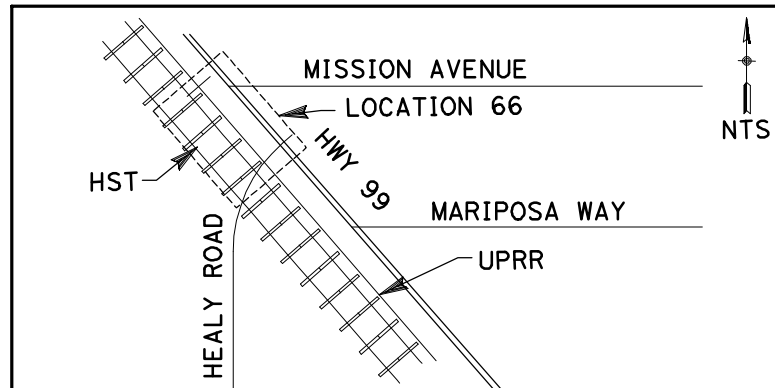
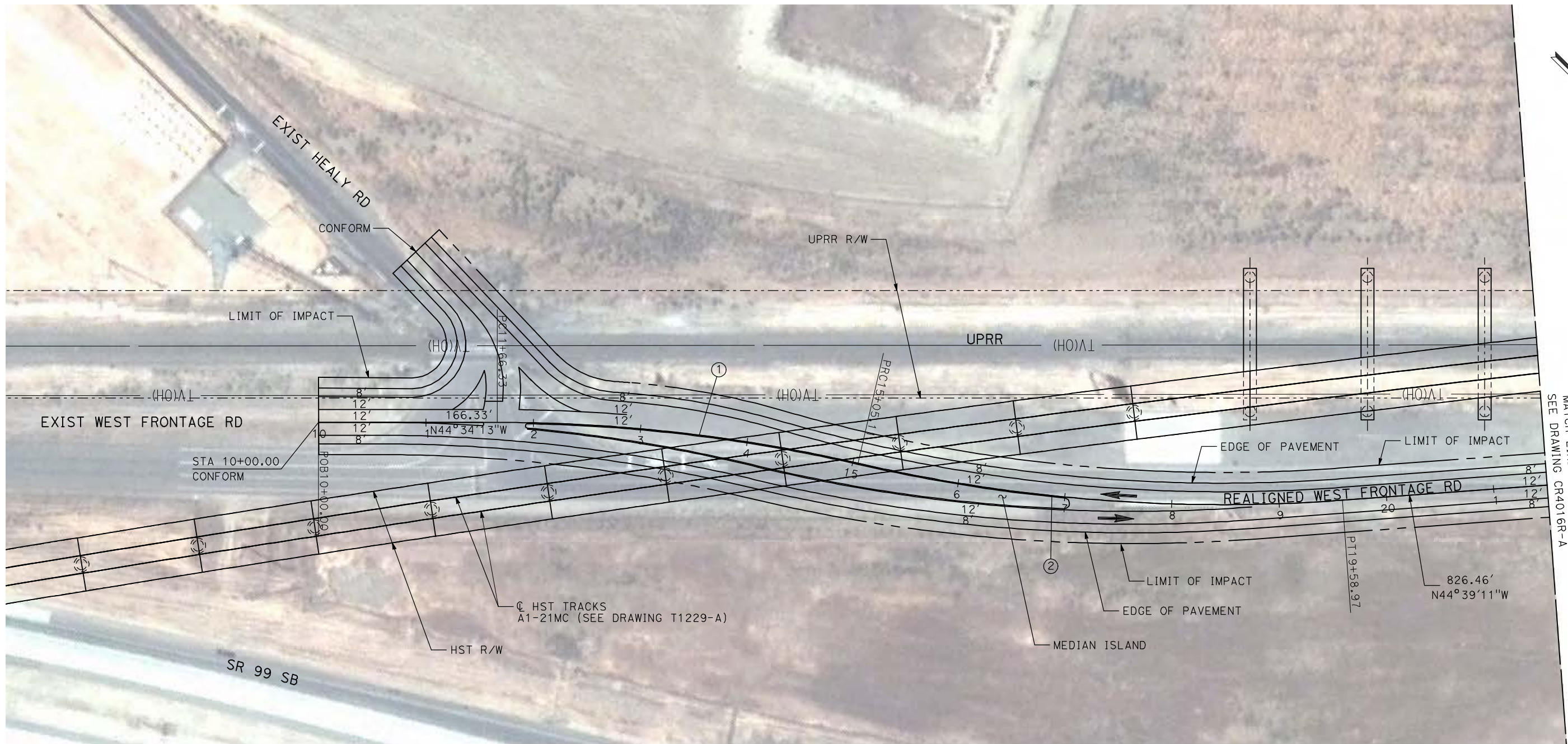
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 24 WYE
 PROPOSED WEST FRONTAGE ROAD
 LAYOUT
 SHEET 1 OF 2

CONTRACT NO.
HSR06-007
 DRAWING NO.
CR4016-A
 SCALE
AS SHOWN
 SHEET NO.
OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. LI
DRAWN BY
A. TRINH
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

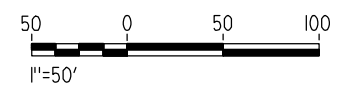
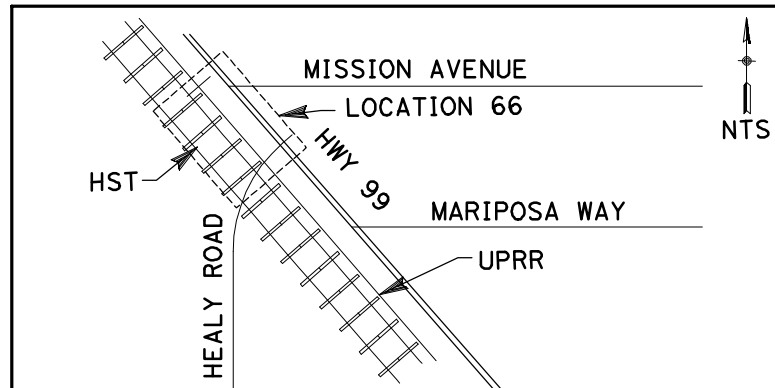
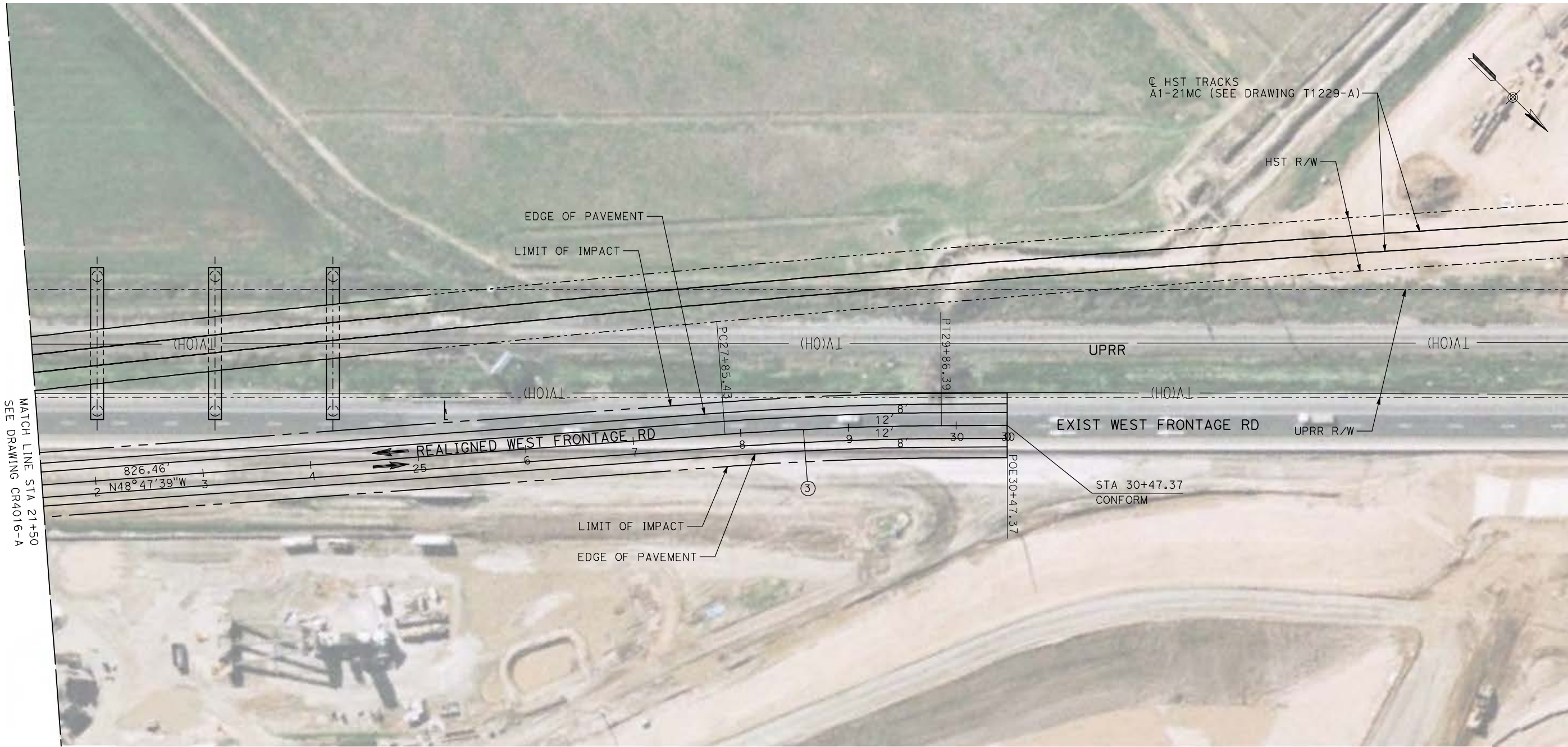


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
PROPOSED WEST FRONTAGE ROAD
LAYOUT
SHEET 1 OF 2

CONTRACT NO.
HSR06-007
DRAWING NO.
CR4016R-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. LI
DRAWN BY
A. TRINH
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

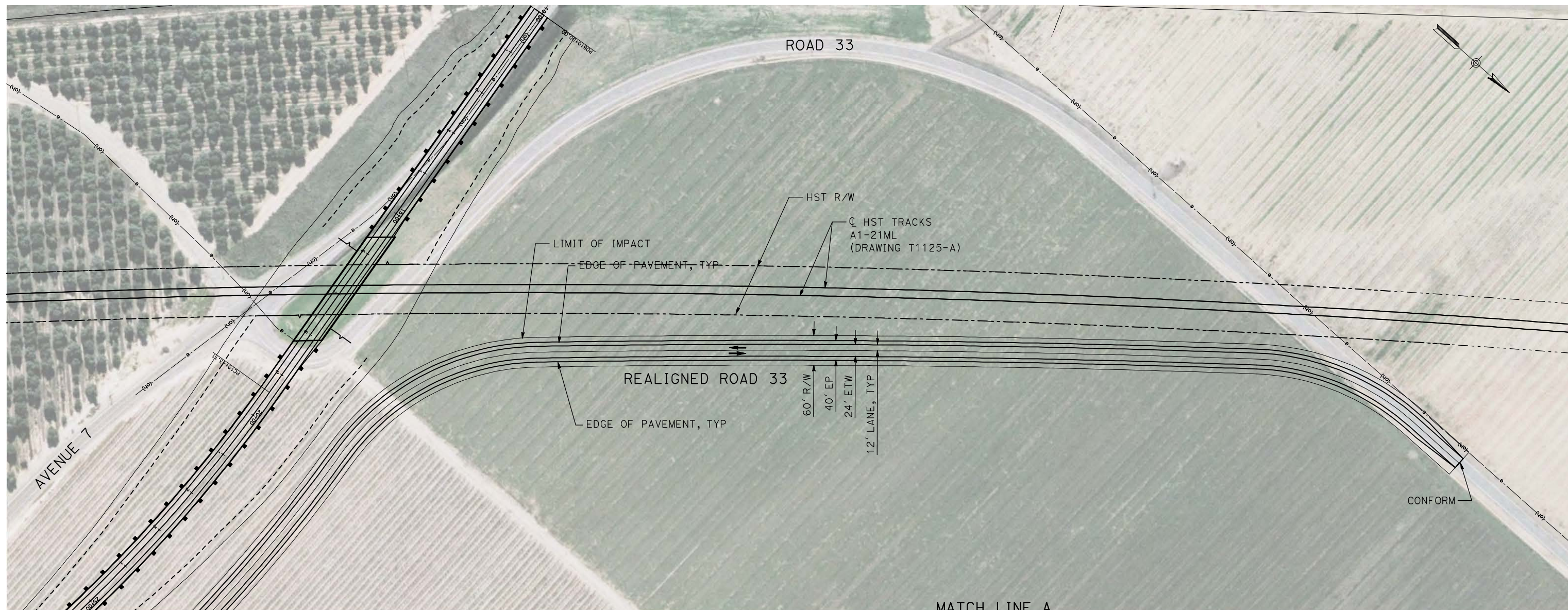


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
PROPOSED WEST FRONTAGE ROAD
LAYOUT
SHEET 2 OF 2

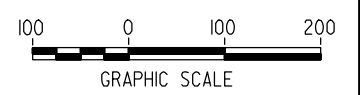
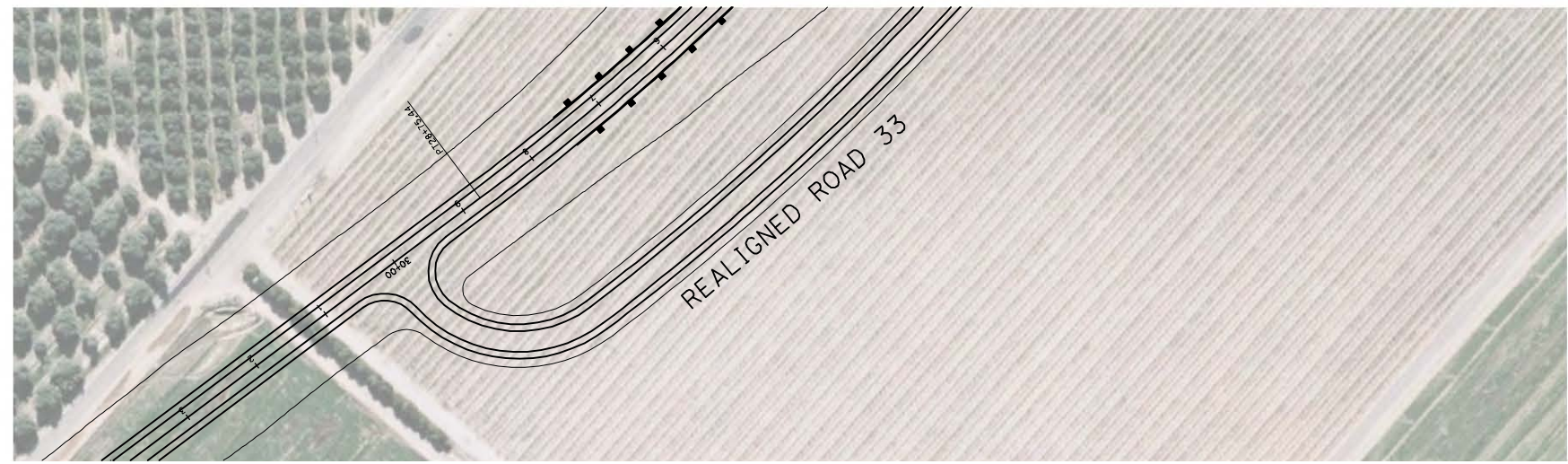
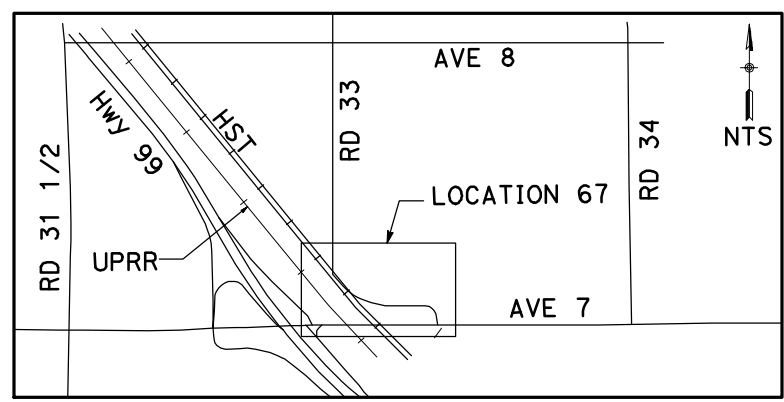
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DRAWING NO.
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SCALE
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SHEET NO.
OF ###

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MATCH LINE A
SEE BELOW RIGHT

MATCH LINE A
SEE ABOVE LEFT



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON

DRAWN BY
H. PHAN

CHECKED BY
A. SILVER

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - ROAD 33
LAYOUT
SHEET 1 OF 1

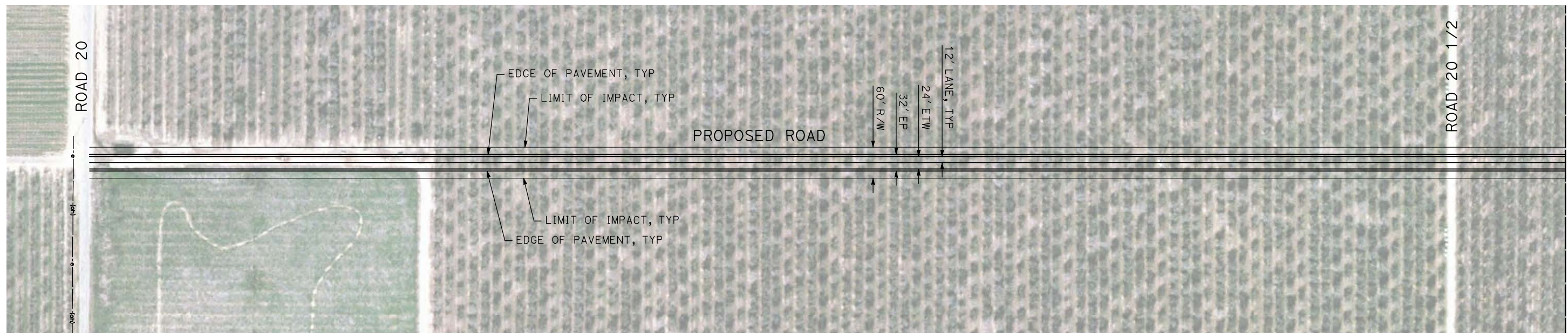
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HST06-007

DRAWING NO.
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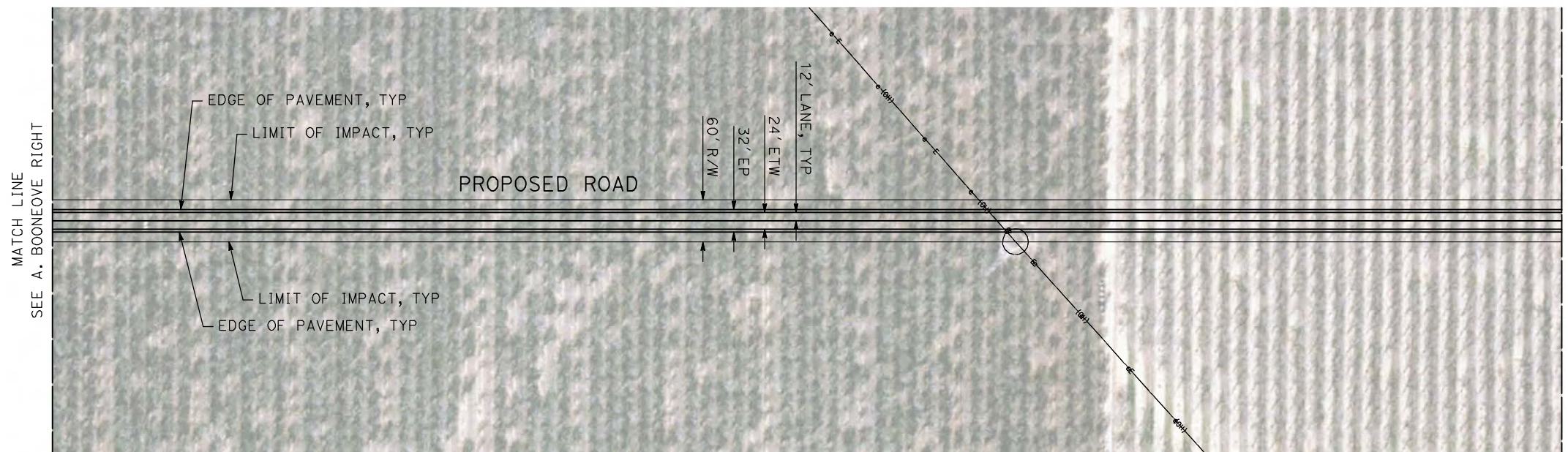
SCALE
AS SHOWN

SHEET NO.
OF

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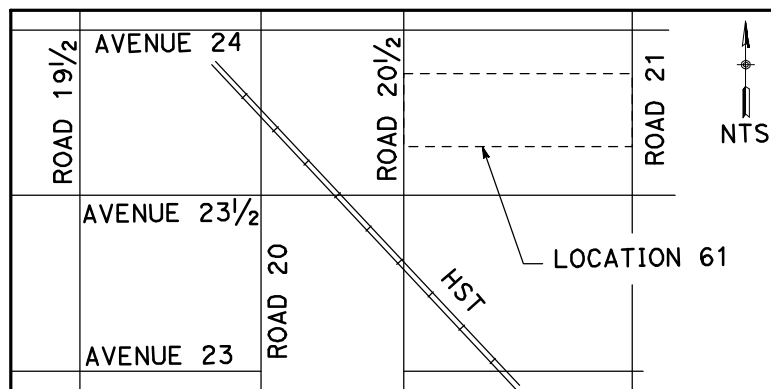


MATCH LINE
SEE BELOW LEFT

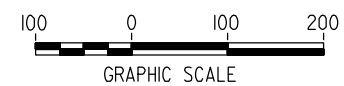


MATCH LINE
SEE A. BOONEVEE RIGHT

MATCH LINE
SEE DRAWING CR4101-A



NTS



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

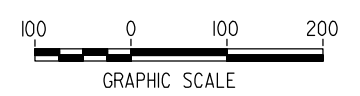
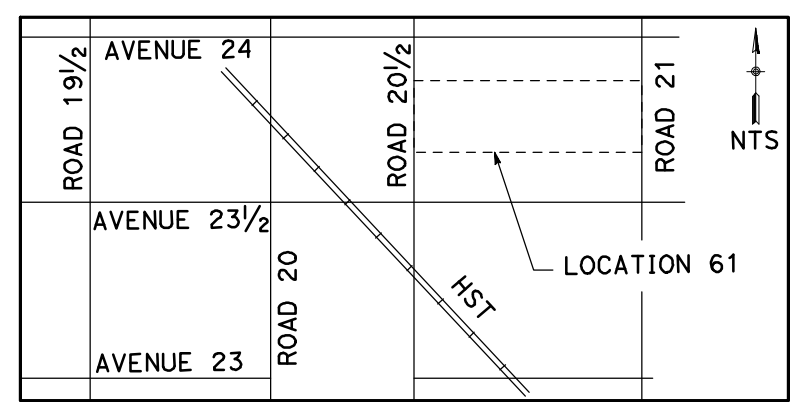
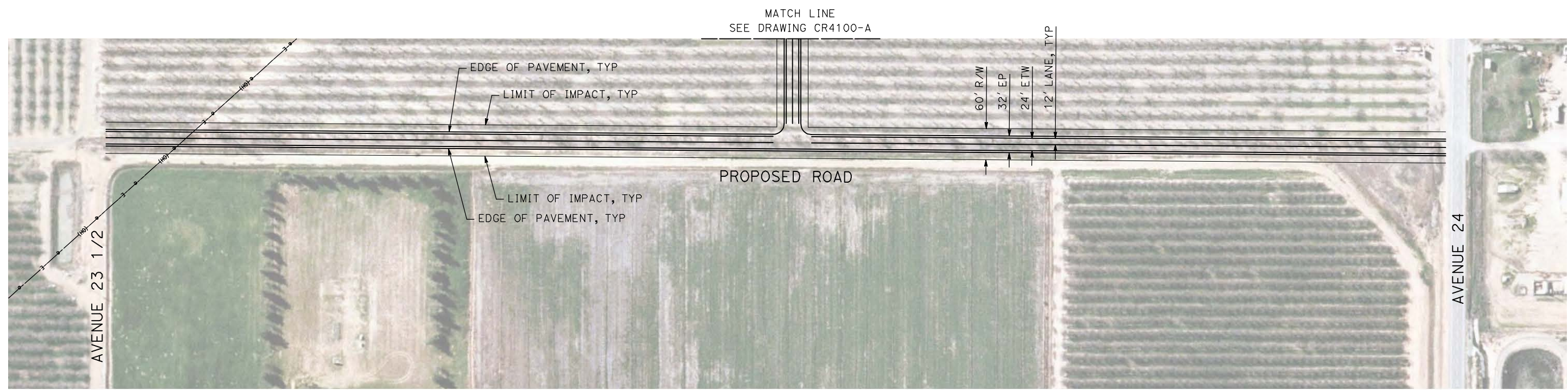


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - AVENUE 23 1/2
LAYOUT
SHEET 1 OF 2

CONTRACT NO.
HST06-007
DRAWING NO.
CR4100-A
SCALE
AS SHOWN
SHEET NO.
OF

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

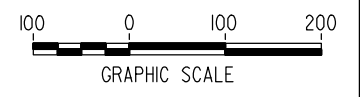
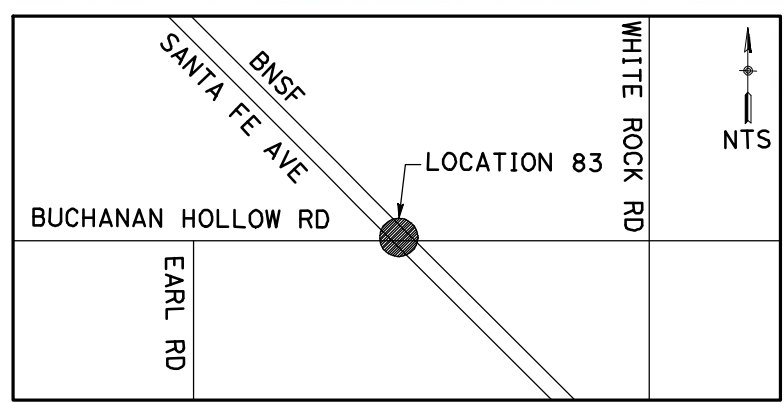
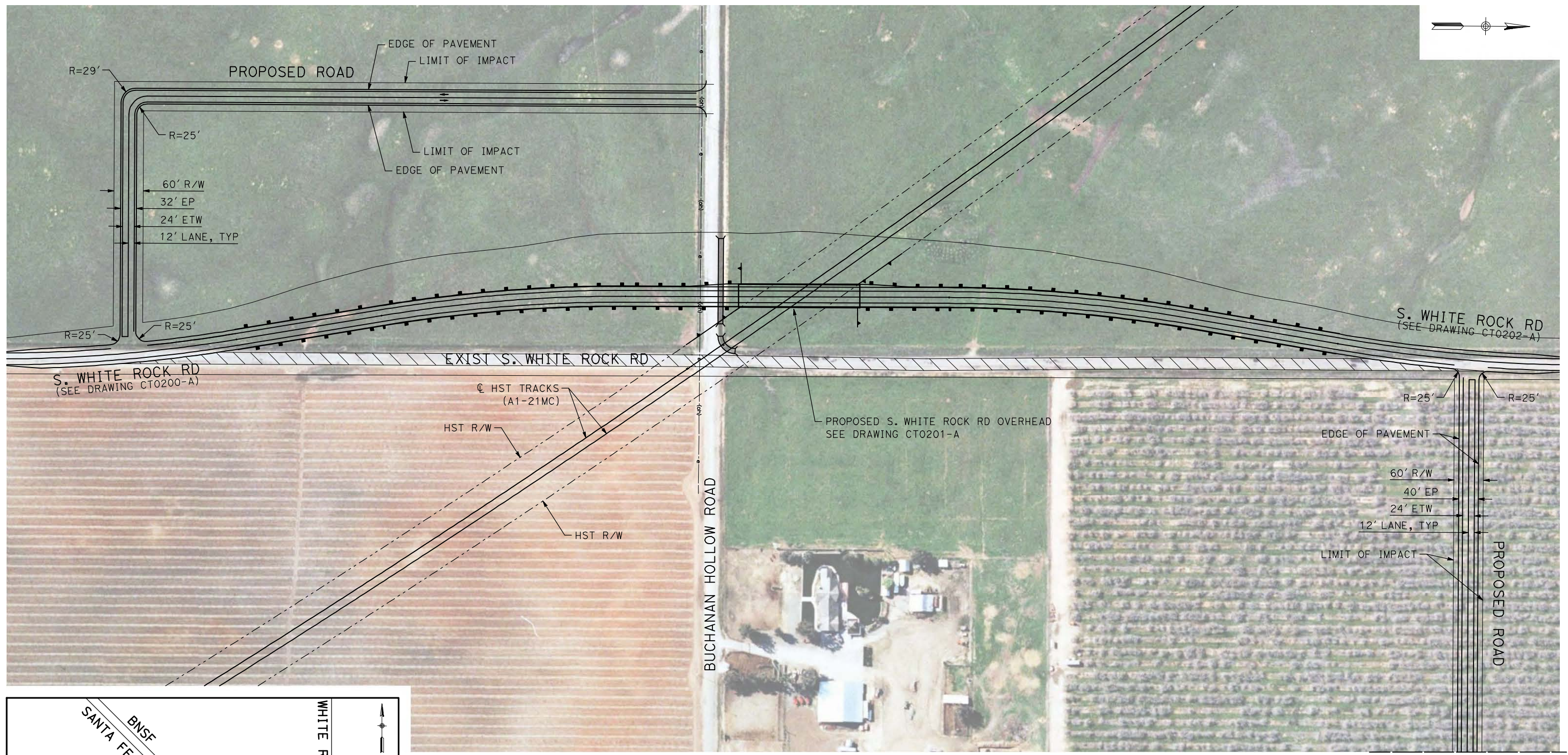


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - AVENUE 23 1/2
LAYOUT
SHEET 2 OF 2

CONTRACT NO.
HST06-007
DRAWING NO.
CR4101-A
SCALE
AS SHOWN
SHEET NO.
OF

5/1/2011 1:16:00 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-ave2124mc01\volume_3a - ave 2124 wye local roads\Layout\MF-CT-4200-A.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

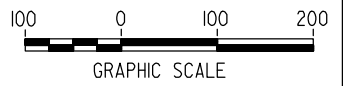
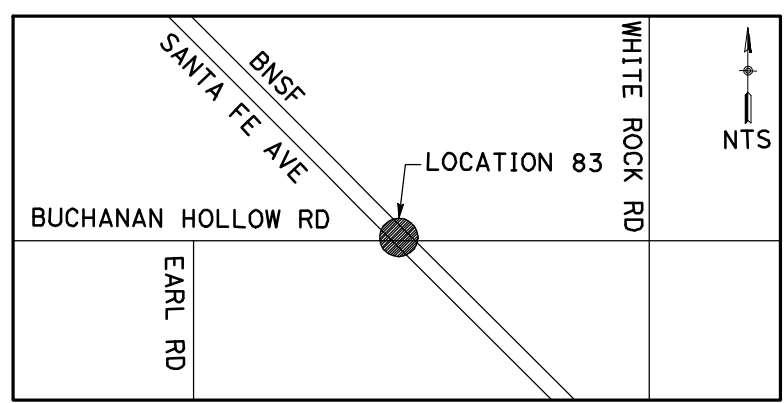
BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - S. WHITE ROCK RD
LAYOUT
SHEET 1 OF 2

CONTRACT NO.
HST06-007
DRAWING NO.
CR4200-A
SCALE
AS SHOWN
SHEET NO.
OF

G:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-ave2124mc01\volume_3a - ave 2124 wye local roads\Layout\MF-CT-4201-A.dgn



MATCH LINE
SEE DRAWING CR4200-A



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

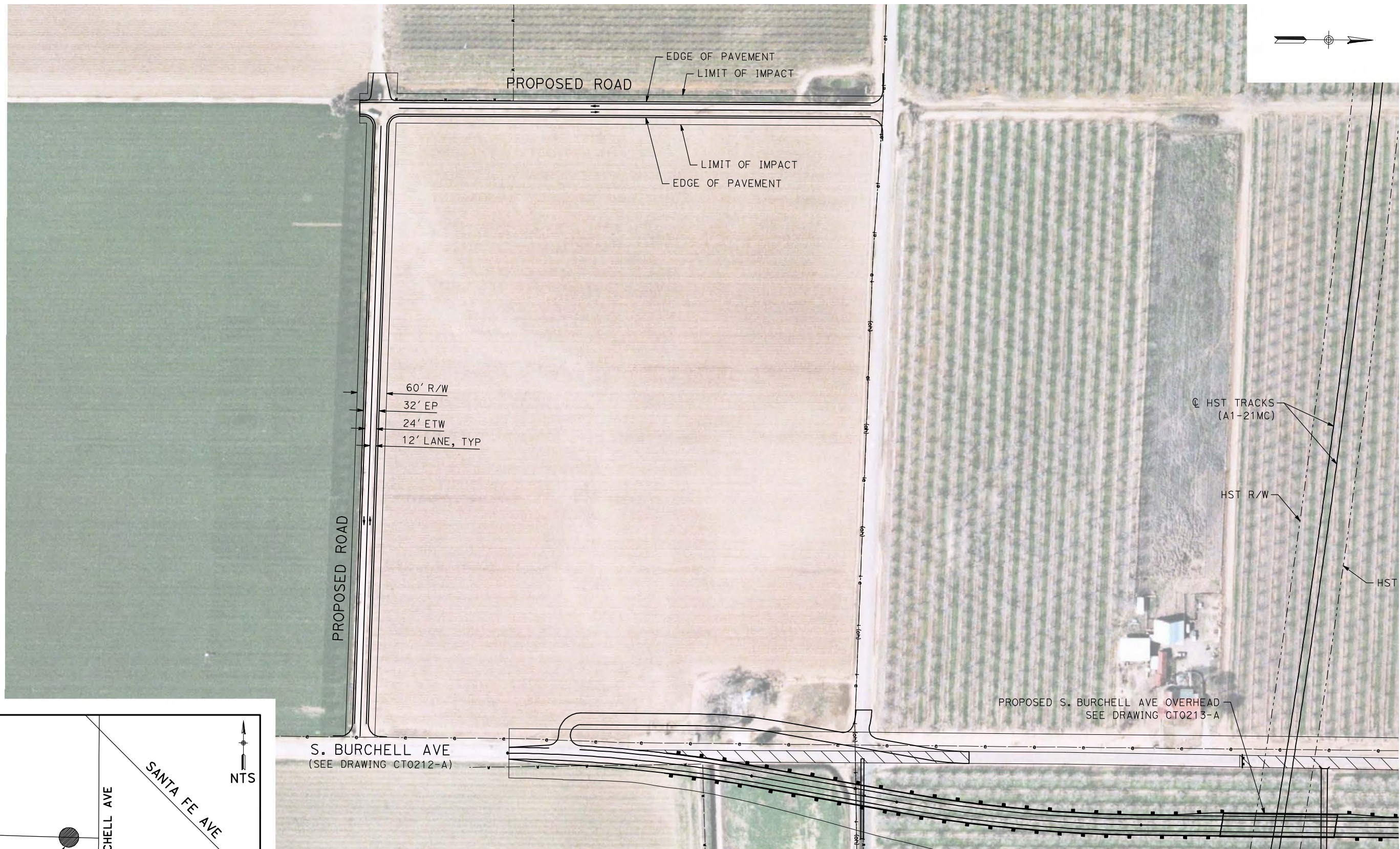


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - S. WHITE ROCK RD
LAYOUT
SHEET 2 OF 2

CONTRACT NO.
HST06-007
DRAWING NO.
CR4201-A
SCALE
AS SHOWN
SHEET NO.
OF

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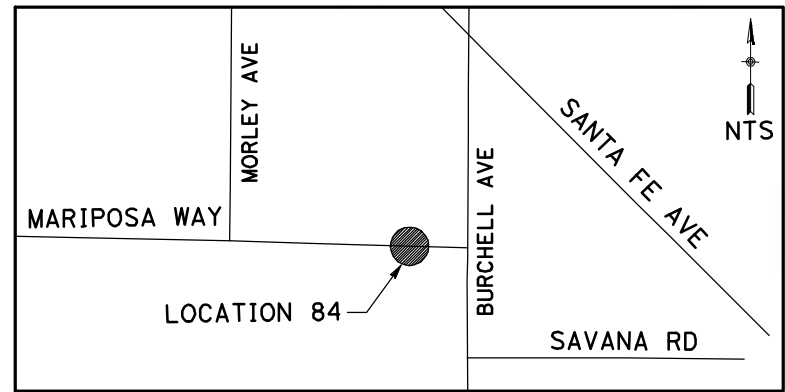
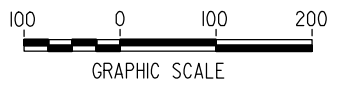


60' R/W
32' EP
24' ETW
12' LANE, TYP

☉ HST TRACKS (A1-21MC)
HST R/W
HST R/W

PROPOSED S. BURCHELL AVE OVERHEAD
SEE DRAWING CT0213-A

S. BURCHELL AVE
(SEE DRAWING CT0212-A)



REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
A. BOONE
DATE
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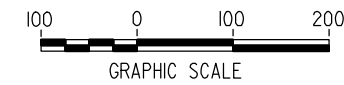
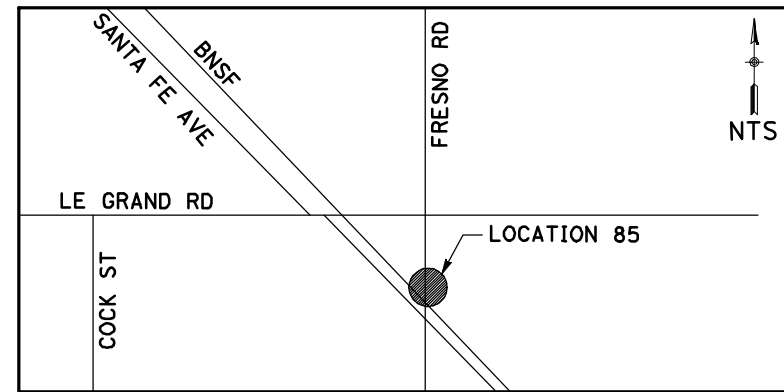
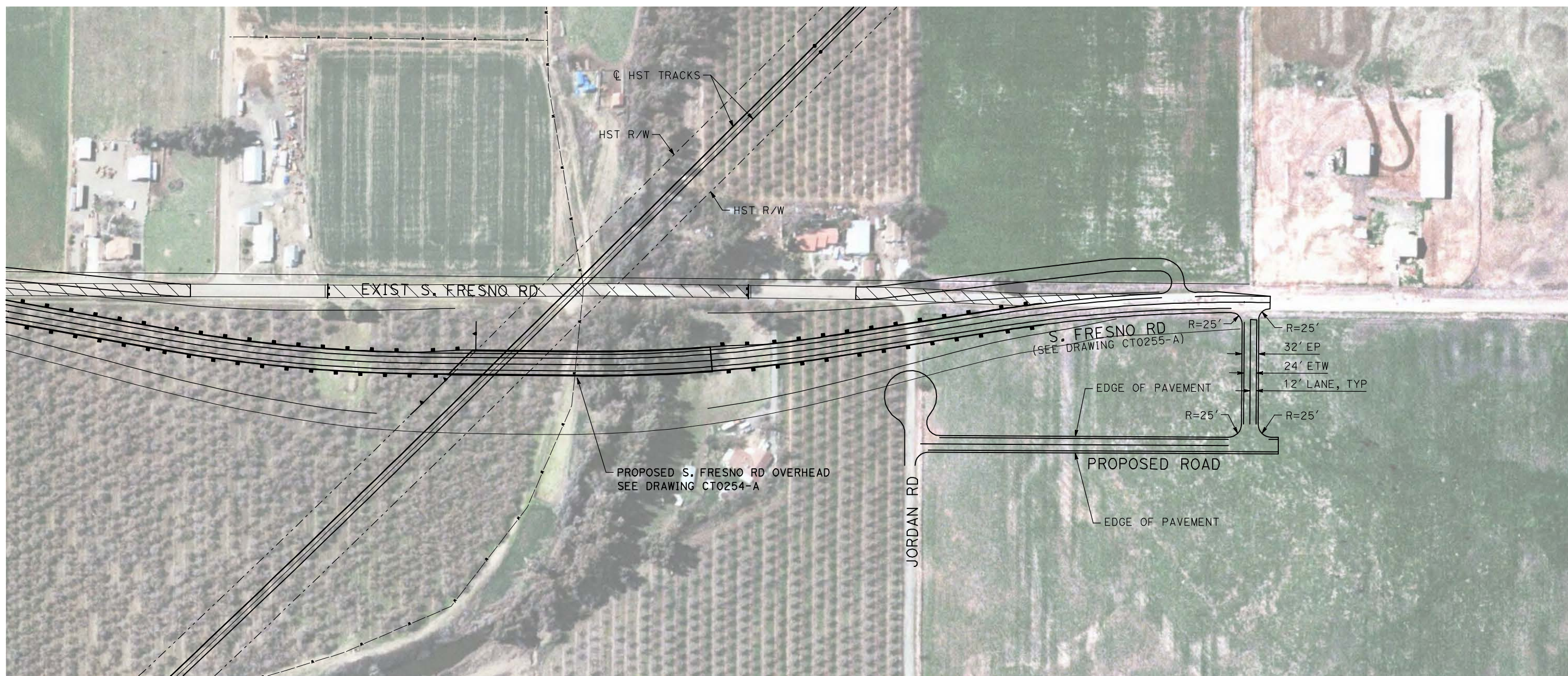
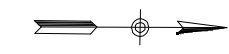
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - S. BURCHELL AVE
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4202-A
SCALE
AS SHOWN
SHEET NO.
OF



5/1/2011 1:18:30 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124M02\Volume_3A - Ave 2124 Wye Local Roads\Layout_MF-CT-4255-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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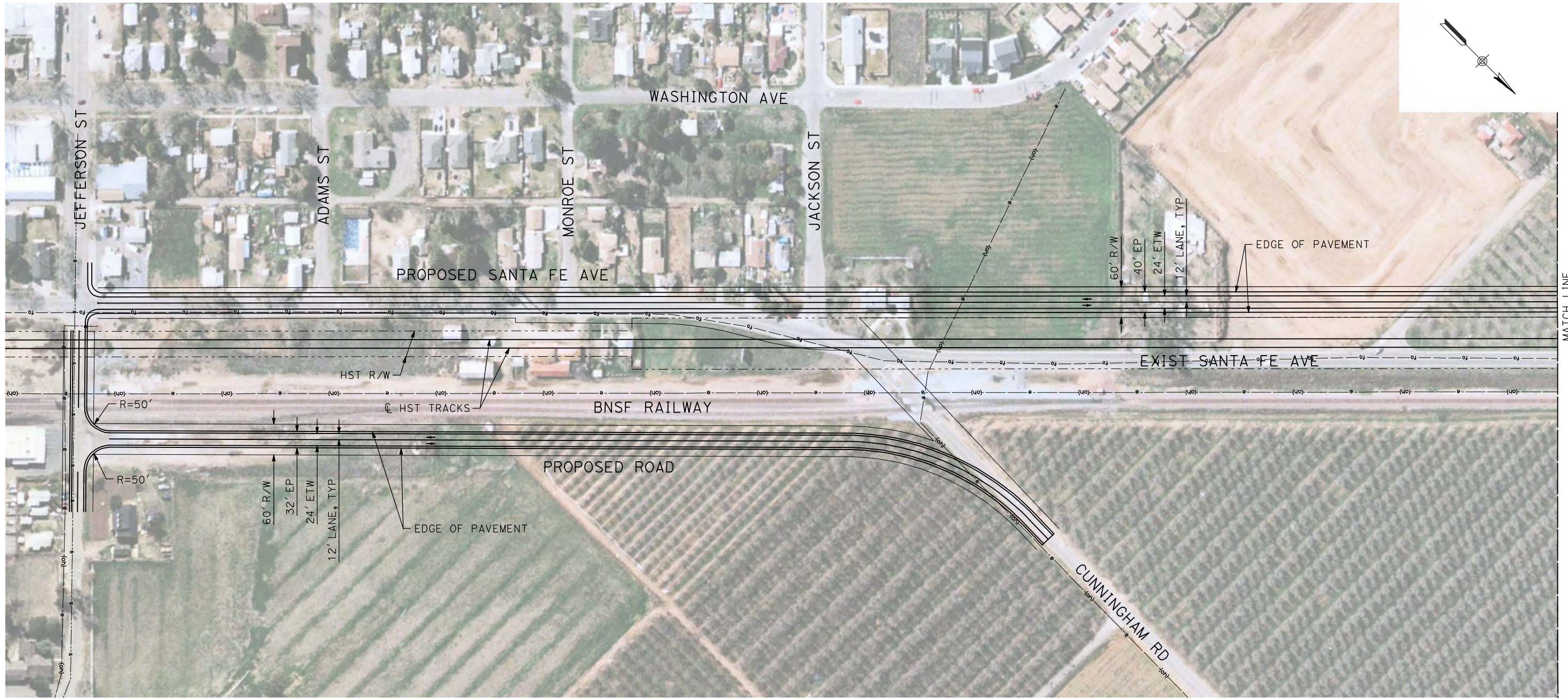


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

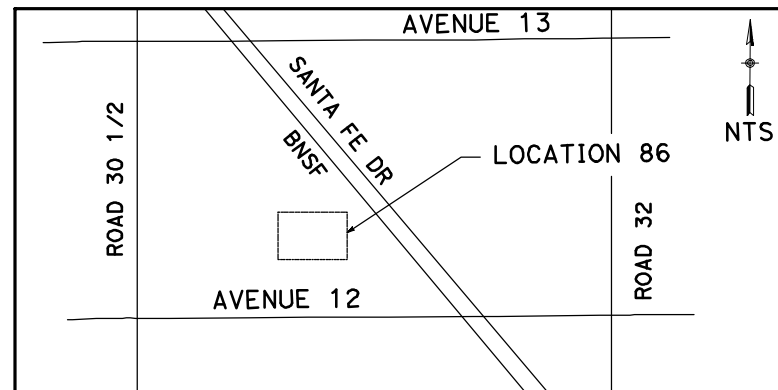
BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - S. FRESNO RD
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4255-A
SCALE
AS SHOWN
SHEET NO.
OF

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MATCH LINE
SEE DRAWING CR4301-A



REV	DATE	BY	CHK	APP	DESCRIPTION

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R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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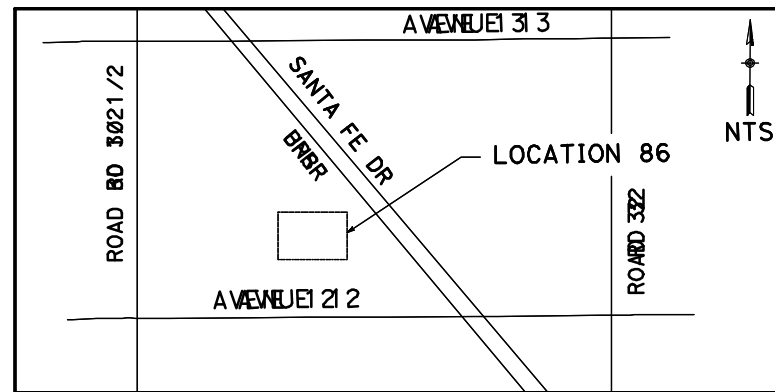
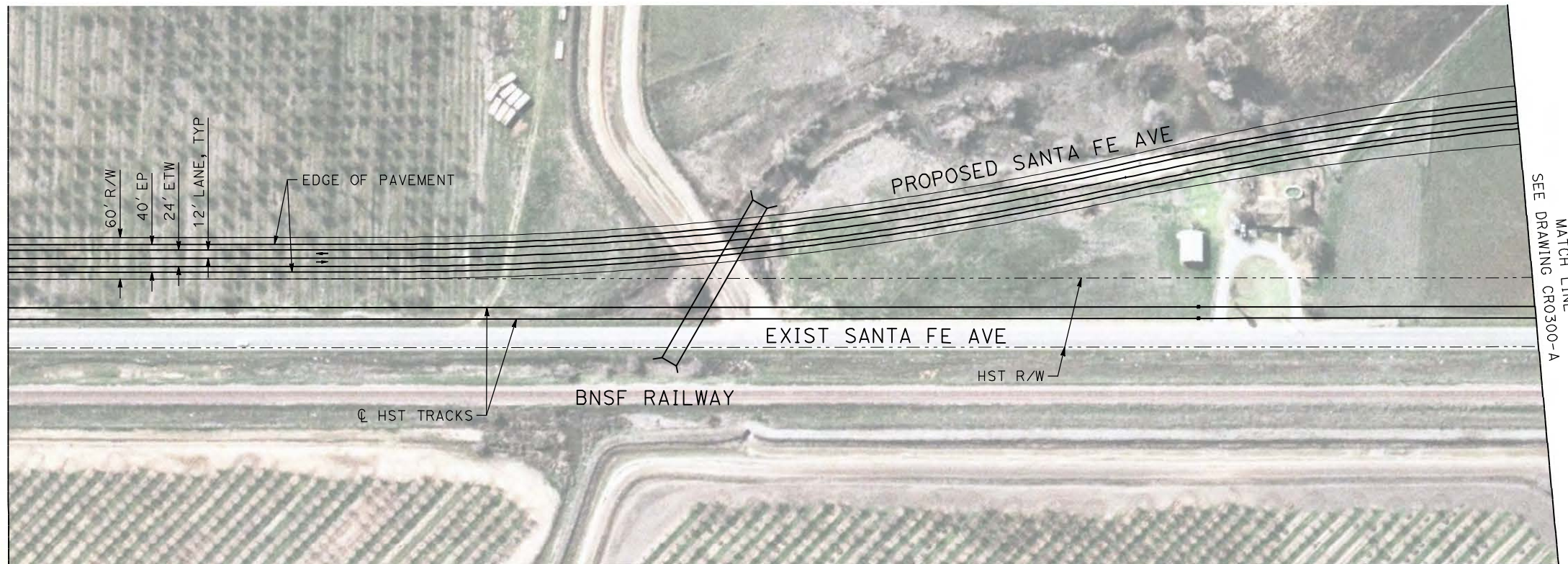


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - S. SANTA FE AVE
LAYOUT
SHEET 1 OF 2

CONTRACT NO.
HST06-007
DRAWING NO.
CR4300-A
SCALE
AS SHOWN
SHEET NO.
OF

GibsonR1 5/1/2011 1:21:24 PM I:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave2124MC03\Volume_3A - Ave 2124 Wye Local Roads\Layout\MF-CT-4301-A.dgn

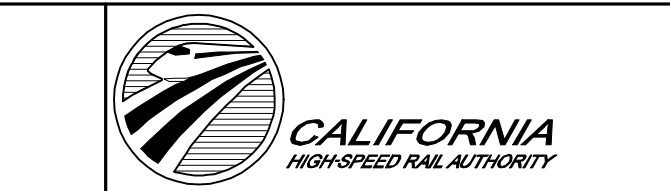


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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04/29/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - S. SANTA FE AVE
LAYOUT
SHEET 2 OF 2

CONTRACT NO.
HST06-007
DRAWING NO.
CR4301-A
SCALE
AS SHOWN
SHEET NO.
OF