

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

DRAFT

Merced to Fresno Section
Draft EIR-EIS

Volume III: Section J – Roadway and Grade Separation Plans

BNSF Alternative with Ave 21 Wye

August 2011



CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration



LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
A1 - AVE 21 WYE (GENERAL)						
		B0110-A	BNSF - AVE 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 6
		B0111-A	BNSF - AVE 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 2 OF 6
		B0112-A	BNSF - AVE 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 3 OF 6
		B0113-A	BNSF - AVE 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 4 OF 6
		B0114-A	BNSF - AVE 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 5 OF 6
		B0115-A	BNSF - AVE 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 6 OF 6
		B0116-A	BNSF - AVE 21 WYE	GENERAL	ABBREVIATIONS, SYMBOLS & NOTES	SHEET 1 OF 1
		B0117-A	BNSF - AVE 21 WYE		INDEX MAP	SHEET 1 OF 4
		B0118-A	BNSF - AVE 21 WYE		INDEX MAP	SHEET 2 OF 4
		B0119-A	BNSF - AVE 21 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 3 OF 4
		B0120-A	BNSF - AVE 21 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 4 OF 4
		CT0121-A	BNSF - AVE 21 WYE	TYPICAL CROSS SECTIONS	GRADE SEPARATIONS	SHEET 1 OF 2
		CT0122-A	BNSF - AVE 21 WYE	TYPICAL CROSS SECTIONS	GRADE SEPARATIONS	SHEET 2 OF 2
		CT5000-A	BNSF - AVE 21 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH		SHEET 1 OF 2
		CT5000-B	BNSF - AVE 21 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH		SHEET 2 OF 2
A1 - AVE 21 WYE (LAYOUT)						
1		CT0001-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 1 OF 3
1		CT0002-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 2 OF 3
1		CT0003-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 3 OF 3
2		CT0004-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 1 OF 3
2		CT0005-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 2 OF 3
2		CT0006-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 3 OF 3
3		CT0007-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 1 OF 3
3		CT0008-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 2 OF 3
3		CT0009-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 3 OF 3
4		CT0010-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 1 OF 3
4		CT0011-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 2 OF 3
4		CT0012-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 3 OF 3
5		CT0013-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 1 OF 4
5		CT0014-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 2 OF 4
5		CT0015-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 3 OF 4
5		CT0016-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 4 OF 4
6		CT0017-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 1 OF 3
6		CT0018-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 2 OF 3
6		CT0019-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 3 OF 3
7		CT0020-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 1 OF 3
7		CT0021-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 2 OF 3
7		CT0022-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 3 OF 3
8		CT0023-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 1 OF 3
8		CT0024-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 2 OF 3
8		CT0025-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 3 OF 3
9		CT0026-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 1 OF 3
9		CT0027-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 2 OF 3
9		CT0028-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 3 OF 3
11		CT0032-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 1 OF 3
11		CT0033-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 2 OF 3
11		CT0034-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 3 OF 3
12		CT0035-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 1 OF 3
12		CT0036-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 2 OF 3
12		CT0037-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 3 OF 3
13		CT0038-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 1 OF 3
13		CT0039-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 2 OF 3
13		CT0040-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 3 OF 3
14		CT0041-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - AVENUE 24	LAYOUT	SHEET 1 OF 3
14		CT0042-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - AVENUE 24	LAYOUT	SHEET 2 OF 3
14		CT0043-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - AVENUE 24	LAYOUT	SHEET 3 OF 3
15		CT0044-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 1 OF 4
15		CT0045-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 2 OF 4
15		CT0046-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 3 OF 4
15		CT0047-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 4 OF 4
16		CT0048-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 1 OF 3
16		CT0049-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 2 OF 3
16		CT0050-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 3 OF 3
17		CT0051-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 1 OF 3
17		CT0052-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 2 OF 3
17		CT0053-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 3 OF 3
18		CT0054-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BURCHELL AVE	LAYOUT	SHEET 1 OF 3
18		CT0055-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BURCHELL AVE	LAYOUT	SHEET 2 OF 3
18		CT0056-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BURCHELL AVE	LAYOUT	SHEET 3 OF 3
19		CT0057-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 1 OF 3
19		CT0058-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. Gibson
DRAWN BY
F. DeMarco
CHECKED BY
T. Abere
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 21 WYE
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
B0110-A
SCALE
NONE
SHEET NO.
OF

7/22/2011 12:06:11 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-ave21\volume 1a - ave 21 wye grade separation\index of drawings\COMBINED_SET\MF-B-011.dgn

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
19		CT0059-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 3 OF 3
20		CT0060-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 1 OF 3
20		CT0061-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 2 OF 3
20		CT0062-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 3 OF 3
21		CT0063-A	BNSF WYE CONNECTION - AVE 21 WYE	GRADE SEPARATION - AVENUE 22	LAYOUT	SHEET 1 OF 3
21		CT0064-A	BNSF WYE CONNECTION - AVE 21 WYE	GRADE SEPARATION - AVENUE 22	LAYOUT	SHEET 2 OF 3
21		CT0065-A	BNSF WYE CONNECTION - AVE 21 WYE	GRADE SEPARATION - AVENUE 22	LAYOUT	SHEET 3 OF 3
22		CT0066-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 1 OF 3
22		CT0067-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 2 OF 3
22		CT0068-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 3 OF 3
23		CT0069-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 3
23		CT0070-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 2 OF 3
23		CT0071-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 3 OF 3
24		CT0073-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 22	LAYOUT	SHEET 1 OF 3
24		CT0074-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 22	LAYOUT	SHEET 2 OF 3
24		CT0075-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 22	LAYOUT	SHEET 3 OF 3
25		CT0076-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 1 OF 3
25		CT0077-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 2 OF 3
25		CT0078-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 3 OF 3
26		CT0079-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 18 1/2	LAYOUT	SHEET 1 OF 3
26		CT0080-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 18 1/2	LAYOUT	SHEET 2 OF 3
26		CT0081-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 18 1/2	LAYOUT	SHEET 3 OF 3
27		CT0082-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 1 OF 3
27		CT0083-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 2 OF 3
27		CT0084-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 3 OF 3
65		CT0146-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 1 OF 3
65		CT0147-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 2 OF 3
65		CT0148-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 3 OF 3
64		CT0149-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - G STREET	LAYOUT	SHEET 1 OF 1
A1 - AVE 21 WYE - MC ALT 01 (LAYOUT)						
70		CT0200-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. WHITE ROCK RD	LAYOUT	SHEET 1 OF 3
70		CT0201-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. WHITE ROCK RD	LAYOUT	SHEET 2 OF 3
70		CT0202-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. WHITE ROCK RD	LAYOUT	SHEET 3 OF 3
71		CT0203-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 1 OF 3
71		CT0204-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 2 OF 3
71		CT0205-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 3 OF 3
72		CT0206-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 1 OF 3
72		CT0207-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 2 OF 3
72		CT0208-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 3 OF 3
73		CT0209-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 1 OF 3
73		CT0210-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 2 OF 3
73		CT0211-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 3 OF 3
74		CT0212-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. BURCHELL AVE	LAYOUT	SHEET 1 OF 3
74		CT0213-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. BURCHELL AVE	LAYOUT	SHEET 2 OF 3
74		CT0214-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. BURCHELL AVE	LAYOUT	SHEET 3 OF 3
A1 - AVE 21 WYE - MC ALT 02 (LAYOUT)						
75		CT0250-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 1 OF 3
75		CT0251-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 2 OF 3
75		CT0252-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	LAYOUT	SHEET 3 OF 3
76		CT0253-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 1 OF 3
76		CT0254-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 2 OF 3
76		CT0255-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	LAYOUT	SHEET 3 OF 3
77		CT0256-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 1 OF 3
77		CT0257-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 2 OF 3
77		CT0258-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 3 OF 3
78		CT0259-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 1 OF 3
78		CT0260-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3
78		CT0261-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 3 OF 3
A1 - AVE 21 WYE - MC ALT 03 (LAYOUT)						
79		CT0300-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 1 OF 3
79		CT0301-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 2 OF 3
79		CT0302-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 3 OF 3
80		CT0303-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 1 OF 3
80		CT0304-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3
80		CT0305-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 3 OF 3
81		CT0306-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 1 OF 3
81		CT0307-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 2 OF 3
81		CT0308-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 3 OF 3
82		CT0309-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 1 OF 3
82		CT0310-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 2 OF 3
82		CT0311-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 3 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 21 WYE
GENERAL
INDEX OF DRAWINGS
SHEET 2 OF 6

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

7/22/2011 12:06:20 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\index of drawings\COMBINED_SET\MF-B-0112.dgn

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
A1 - AVE 21 WYE (SUPERELEVATION TEMPLATES)						
		CT0996-A	BNSF - AVE 21 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 1 OF 4
		CT0997-A	BNSF - AVE 21 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 2 OF 4
		CT0998-A	BNSF - AVE 21 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		CT0999-A	BNSF - AVE 21 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
A1 - AVE 21 WYE (PROFILES)						
1		CT1000-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 1 OF 3
1		CT1001-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 2 OF 3
1		CT1002-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 3 OF 3
2		CT1003-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 1 OF 3
2		CT1004-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 2 OF 3
2		CT1005-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 3 OF 3
3		CT1006-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 1 OF 3
3		CT1007-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 2 OF 3
3		CT1008-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 3 OF 3
4		CT1009-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 1 OF 3
4		CT1010-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 2 OF 3
4		CT1011-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 3 OF 3
5		CT1012-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 1 OF 3
5		CT1013-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 2 OF 3
5		CT1014-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 3 OF 3
6		CT1015-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 1 OF 3
6		CT1016-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 2 OF 3
6		CT1017-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 3 OF 3
7		CT1018-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 1 OF 3
7		CT1019-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 2 OF 3
7		CT1020-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 3 OF 3
8		CT1021-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - RAYMOND RD	PROFILE	SHEET 1 OF 3
8		CT1022-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - RAYMOND RD	PROFILE	SHEET 2 OF 3
8		CT1023-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - RAYMOND RD	PROFILE	SHEET 3 OF 3
9		CT1024-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 1 OF 3
9		CT1025-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 2 OF 3
9		CT1026-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 3 OF 3
11		CT1030-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 1 OF 3
11		CT1031-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 2 OF 3
11		CT1032-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 3 OF 3
12		CT1033-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 21	PROFILE	SHEET 1 OF 3
12		CT1034-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 21	PROFILE	SHEET 2 OF 3
12		CT1035-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 21	PROFILE	SHEET 3 OF 3
13		CT1036-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 1 OF 3
13		CT1037-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 2 OF 3
13		CT1038-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 3 OF 3
14		CT1039-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - AVENUE 24	PROFILE	SHEET 1 OF 3
14		CT1040-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - AVENUE 24	PROFILE	SHEET 2 OF 3
14		CT1041-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - AVENUE 24	PROFILE	SHEET 3 OF 3
15		CT1042-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 1 OF 3
15		CT1043-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 2 OF 3
15		CT1044-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 3 OF 3
16		CT1045-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE	SHEET 1 OF 3
16		CT1046-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE	SHEET 2 OF 3
16		CT1047-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE	SHEET 3 OF 3
17		CT1048-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	PROFILE	SHEET 1 OF 3
17		CT1049-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	PROFILE	SHEET 2 OF 3
17		CT1050-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	PROFILE	SHEET 3 OF 3
18		CT1051-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BURCHELL AVE	PROFILE	SHEET 1 OF 3
18		CT1052-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BURCHELL AVE	PROFILE	SHEET 2 OF 3
18		CT1053-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - BURCHELL AVE	PROFILE	SHEET 3 OF 3
19		CT1054-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 1 OF 3
19		CT1055-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 2 OF 3
19		CT1056-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 3 OF 3
20		CT1057-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - ARBOLEDA DR	PROFILE	SHEET 1 OF 3
20		CT1058-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - ARBOLEDA DR	PROFILE	SHEET 2 OF 3
20		CT1059-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - ARBOLEDA DR	PROFILE	SHEET 3 OF 3
21		CT1060-A	BNSF WYE CONNECTION - AVE 21 WYE	GRADE SEPARATION - AVENUE 22	PROFILE	SHEET 1 OF 3
21		CT1061-A	BNSF WYE CONNECTION - AVE 21 WYE	GRADE SEPARATION - AVENUE 22	PROFILE	SHEET 2 OF 3
21		CT1062-A	BNSF WYE CONNECTION - AVE 21 WYE	GRADE SEPARATION - AVENUE 22	PROFILE	SHEET 3 OF 3
22		CT1063-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 1 OF 3
22		CT1064-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 2 OF 3
22		CT1065-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 3 OF 3
23		CT1066-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 1 OF 3
23		CT1067-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 2 OF 3
23		CT1068-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 3 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

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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 21 WYE
GENERAL
INDEX OF DRAWINGS
SHEET 3 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
B0112-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
24		CT1069-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 22	PROFILE	SHEET 1 OF 3
24		CT1070-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 22	PROFILE	SHEET 2 OF 3
24		CT1071-A	BNSF MAIN LINE - AVE 21 WYE	UNDERPASS - ROAD 22	PROFILE	SHEET 3 OF 3
25		CT1072-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 1 OF 3
25		CT1073-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 2 OF 3
25		CT1074-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 3 OF 3
26		CT1075-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 18 1/2	PROFILE	SHEET 1 OF 3
26		CT1076-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 18 1/2	PROFILE	SHEET 2 OF 3
26		CT1077-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 18 1/2	PROFILE	SHEET 3 OF 3
27		CT1078-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 1 OF 3
27		CT1079-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 2 OF 3
27		CT1080-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 3 OF 3
65		CT1146-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 1 OF 3
65		CT1147-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 2 OF 3
65		CT1148-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 3 OF 3
64		CT1149-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - G STREET	PROFILE	SHEET 1 OF 1
A1 - AVE 21 WYE - MC ALT 01 (PROFILES)						
70		CT1200-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - WHITE ROCK RD	PROFILE	SHEET 1 OF 3
70		CT1201-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - WHITE ROCK RD	PROFILE	SHEET 2 OF 3
70		CT1202-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - WHITE ROCK RD	PROFILE	SHEET 3 OF 3
71		CT1203-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 1 OF 3
71		CT1204-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 2 OF 3
71		CT1205-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 3 OF 3
72		CT1206-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 1 OF 3
72		CT1207-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 2 OF 3
72		CT1208-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 3 OF 3
73		CT1209-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 1 OF 3
73		CT1210-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 2 OF 3
73		CT1211-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 3 OF 3
74		CT1212-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. BURCHELL AVE	PROFILE	SHEET 1 OF 3
74		CT1213-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. BURCHELL AVE	PROFILE	SHEET 2 OF 3
74		CT1214-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. BURCHELL AVE	PROFILE	SHEET 3 OF 3
A1 - AVE 21 WYE - MC ALT 02 (PROFILES)						
75		CT1250-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 1 OF 3
75		CT1251-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 2 OF 3
75		CT1252-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 3 OF 3
76		CT1253-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 1 OF 3
76		CT1254-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 2 OF 3
76		CT1255-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 3 OF 3
77		CT1256-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 1 OF 3
77		CT1257-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 2 OF 3
77		CT1258-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 3 OF 3
78		CT1259-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 1 OF 3
78		CT1260-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 2 OF 3
78		CT1261-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 3 OF 3
A1 - AVE 21 WYE - MC ALT 03 (PROFILES)						
79		CT1300-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	PROFILE	SHEET 1 OF 3
79		CT1301-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	PROFILE	SHEET 2 OF 3
79		CT1302-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. SANTA FE AVE	PROFILE	SHEET 3 OF 3
80		CT1303-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 1 OF 3
80		CT1304-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 2 OF 3
80		CT1305-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 3 OF 3
81		CT1306-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ARBOLEDA RD	PROFILE	SHEET 1 OF 3
81		CT1307-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ARBOLEDA RD	PROFILE	SHEET 2 OF 3
81		CT1308-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ARBOLEDA RD	PROFILE	SHEET 3 OF 3
82		CT1309-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ORCHARD DR	PROFILE	SHEET 1 OF 3
82		CT1310-A	BNSF MERCED CONNECTION - AVE 21 WYE	GRADE SEPARATION - S. ORCHARD DR	PROFILE	SHEET 2 OF 3
82		CT1311-A	BNSF MERCED CONNECTION - AVE 21 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	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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DATE
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 21 WYE
GENERAL
INDEX OF DRAWINGS
SHEET 4 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
B0113-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
		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)						
		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
PTG (LAYOUTS AND PROFILES)						
		CT1477-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	ROAD 11 GRADE SEPARATION	PLAN AND PROFILE
		CT1478-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	ROAD 11 GRADE SEPARATION	PLAN AND PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

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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 21 WYE
GENERAL

INDEX OF DRAWINGS
SHEET 5 OF 6

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
		CT1481-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	ROBERTSON BLVD GRADE SEPARATION	PLAN AND PROFILE
		CT1482-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	ROBERTSON BLVD GRADE SEPARATON	PLAN AND PROFILE
		CT1484-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	ROAD 14 GRADE SEPARATION	PLAN AND PROFILE
		CT1485-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	ROAD 14 GRADE SEPARATION	PLAN AND PROFILE
		CT1926-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 9/HEMLOCK ROAD GRADE SEPARATION	
		CT1927-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 9/HEMLOCK ROAD GRADE SEPARATION	
		CT1928-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 9/HEMLOCK ROAD GRADE SEPARATION	
		CT1929-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 11 GRADE SEPARATION	
		CT1930-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 11 GRADE SEPARATION	
		CT1931-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 11 GRADE SEPARATION	
		CT1932-A	BNSF MAIN LINE	PLAN AND PROFILE	ROBERSTON BLVD GRADE SEPARATION	
		CT1933-A	BNSF MAIN LINE	PLAN AND PROFILE	ROBERSTON BLVD GRADE SEPARATION	
		CT1934-A	BNSF MAIN LINE	PLAN AND PROFILE	ROBERSTON BLVD GRADE SEPARATION	
		CT1935-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 14 GRADE SEPARATION	
		CT1936-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 14 GRADE SEPARATION	
		CT1937-A	BNSF MAIN LINE	PLAN AND PROFILE	ROAD 14 GRADE SEPARATION	

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 21 WYE
 GENERAL
 INDEX OF DRAWINGS
 SHEET 6 OF 6

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 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) 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 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
 - - - - 0 ——— FUEL LINE
 - - - - TC ——— TELEPHONE LINE
 ——— P12 ——— PETROLEUM LINE (12")
 ——— (OH) ——— OVERHEAD LINE
 NORTH ARROW
 ▲ PVI
 ——— (UG) ——— UNDERGROUND LINE

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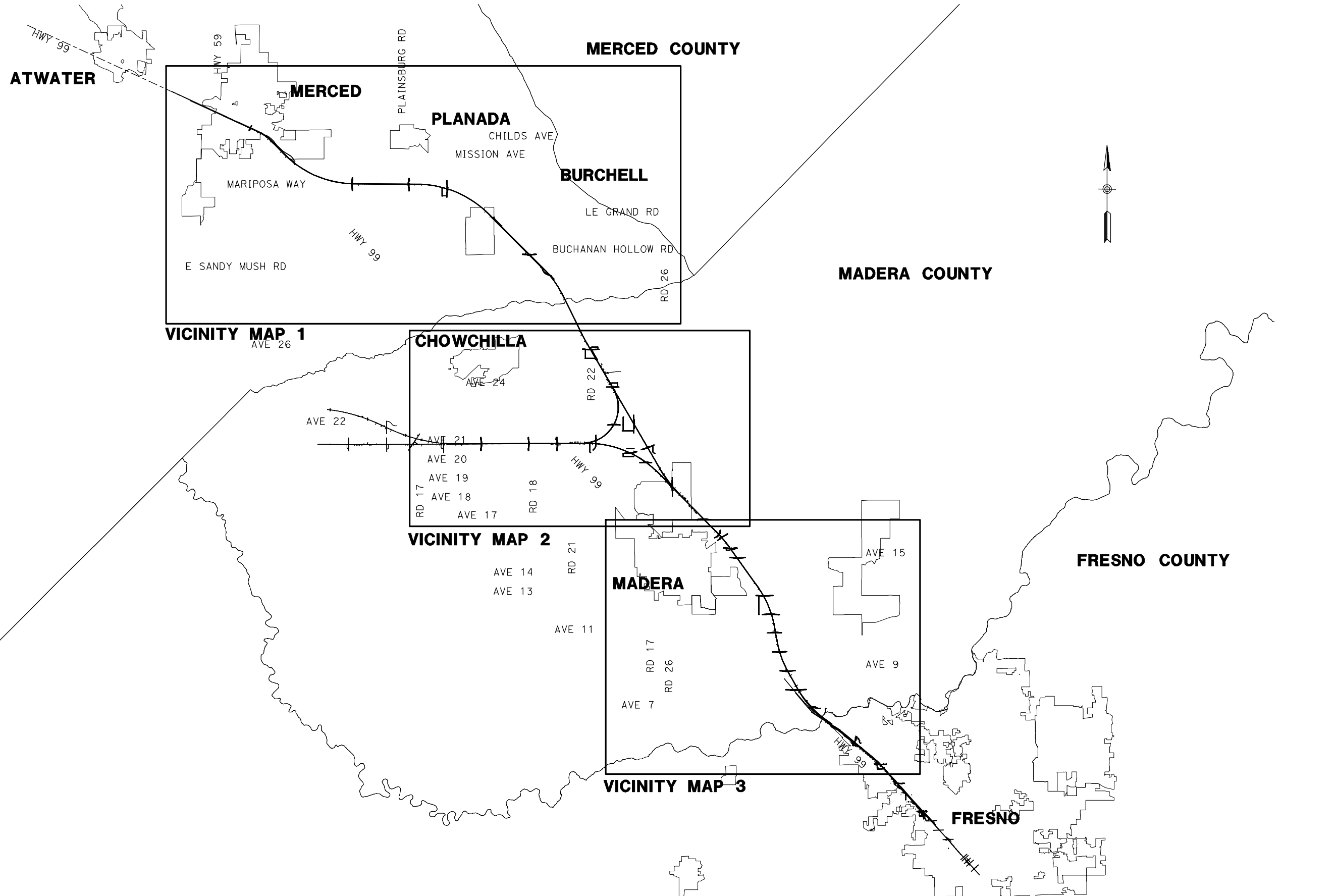
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 21 WYE
 GENERAL
 ABBREVIATIONS, SYMBOLS & NOTES
 SHEET 1 OF 1

CONTRACT NO.
HSR06-007
 DRAWING NO.
B0116-A
 SCALE
NO SCALE
 SHEET NO.
OF

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MERCED TO FRESNO**
BNSF - AVE 21 WYE

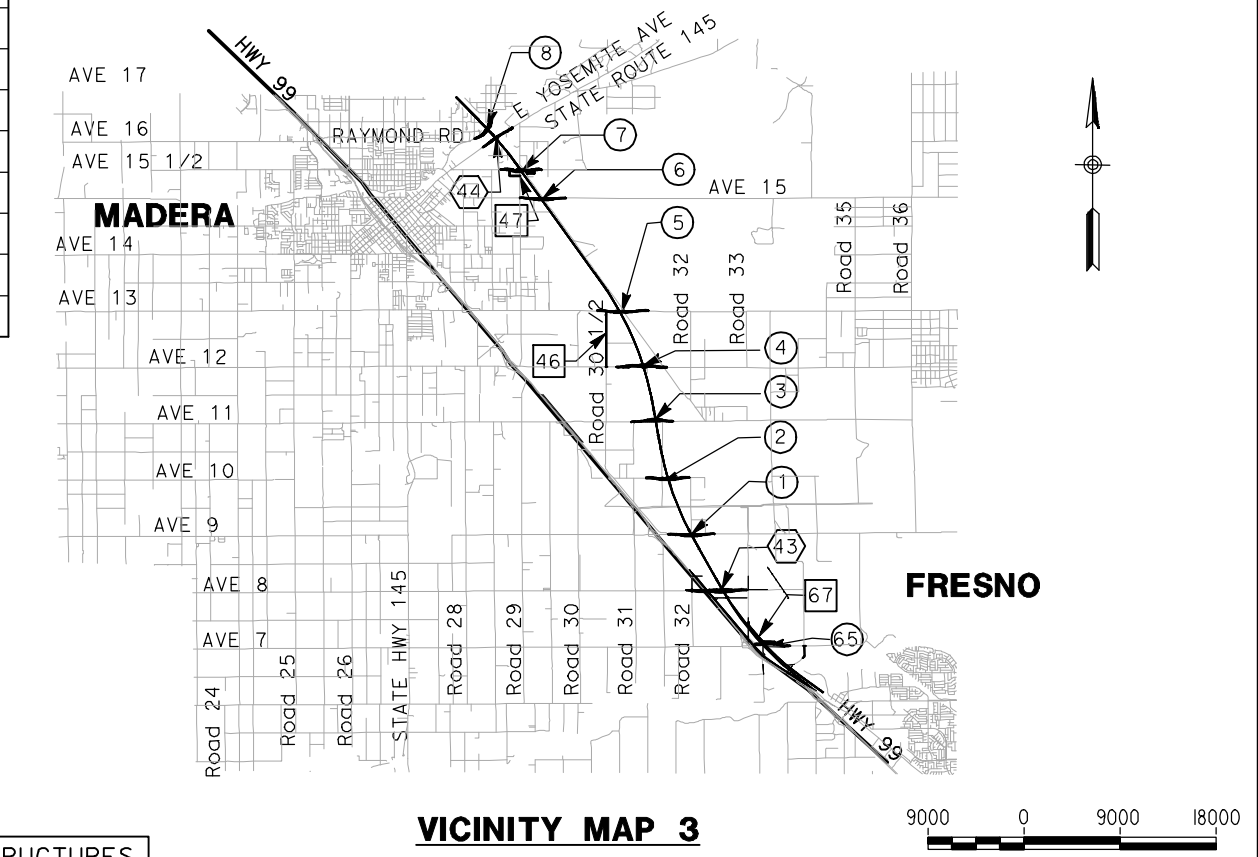
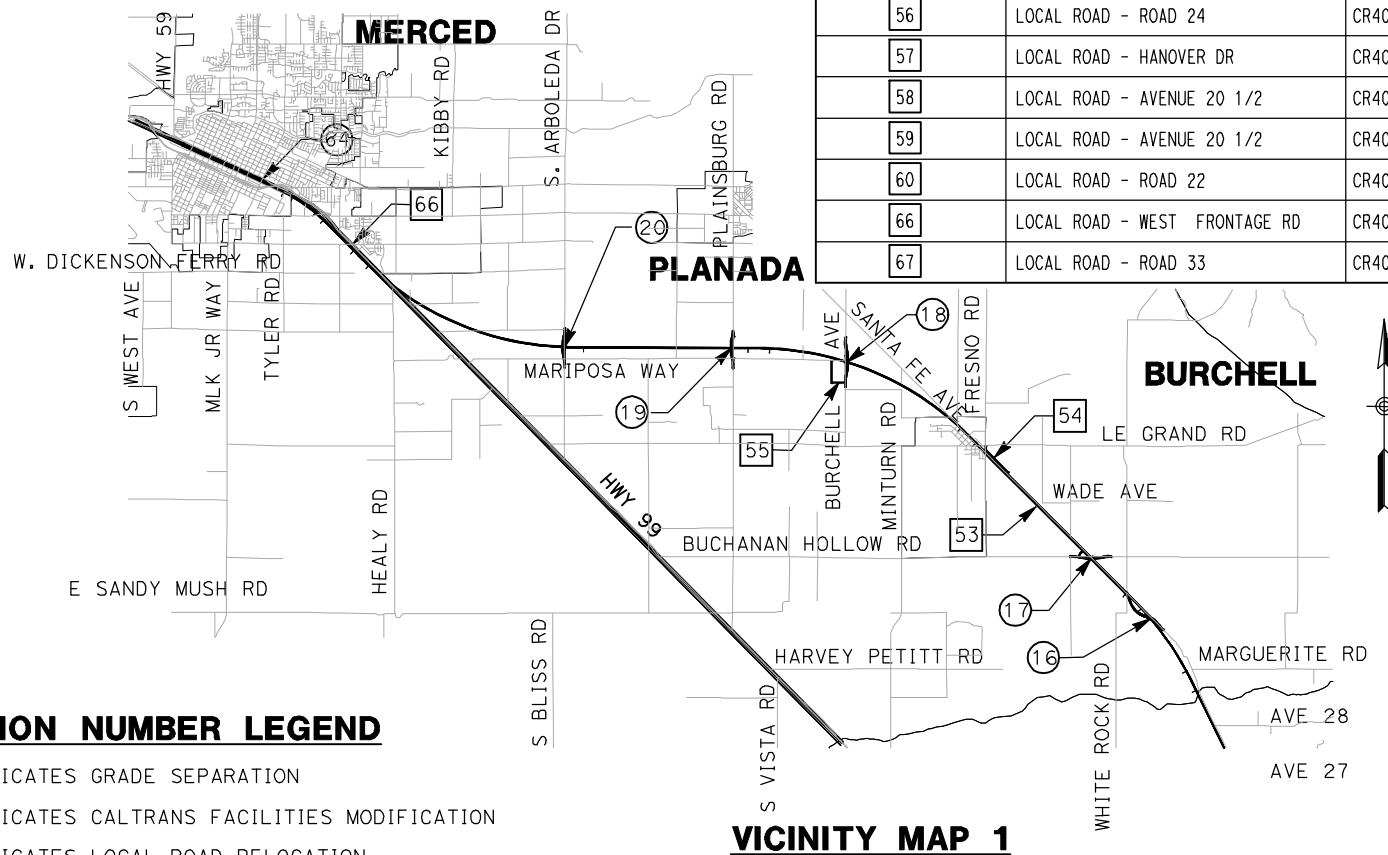
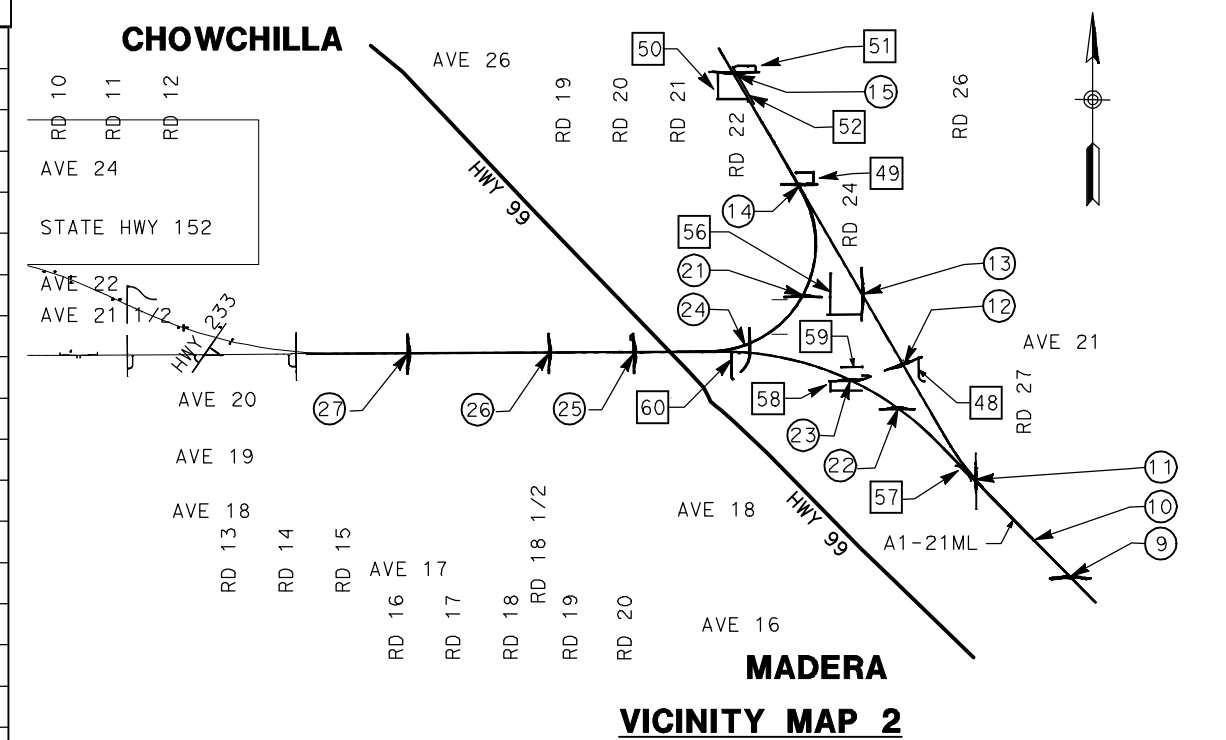
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HSR06-007
DRAWING NO.
B0115-A
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OF ###

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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
14	UNDERPASS - AVENUE 24	CT0041-A - CT0043-A	ST1014
15	GRADE SEPARATION - AVENUE 26	CT0044-A - CT0047-A	ST1015
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
21	GRADE SEPARATION - AVENUE 22	CT0063-A - CT0065-A	ST1021

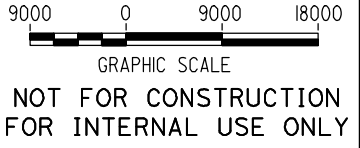
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
22	GRADE SEPARATION - AVENUE 20	CT0066-A - CT0068-A	ST1022
23	GRADE SEPARATION - AVENUE 20 1/2	CT0069-A - CT0071-A	ST1023
24	UNDERPASS - ROAD 22	CT0073-A - CT0075-A	
25	GRADE SEPARATION - ROAD 20	CT0076-A - CT0078-A	ST1026
26	GRADE SEPARATION - ROAD 18 1/2	CT0079-A - CT0081-A	ST1027
27	GRADE SEPARATION - ROAD 16	CT0082-A - CT0084-A	ST1028
64	GRADE SEPARATION - G STREET	CT0149	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	
47	LOCAL ROAD - ROAD 29	CR4001-A	
48	LOCAL ROAD - AVENUE 20 1/2	CR4002-A	
49	LOCAL ROAD - SHARON	CR4003-A	
50	LOCAL ROAD - AVENUE 26	CR4004-A	
51	LOCAL ROAD - AVENUE 26	CR4005-A	
52	LOCAL ROAD - SANTA FE AVE	CR4006-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	
56	LOCAL ROAD - ROAD 24	CR4011-A	
57	LOCAL ROAD - HANOVER DR	CR4012-A	
58	LOCAL ROAD - AVENUE 20 1/2	CR4013-A	
59	LOCAL ROAD - AVENUE 20 1/2	CR4014-A	
60	LOCAL ROAD - ROAD 22	CR4015-A	
66	LOCAL ROAD - WEST FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-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



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
CHECKED BY
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A. BOONE
DATE
07/20/2011

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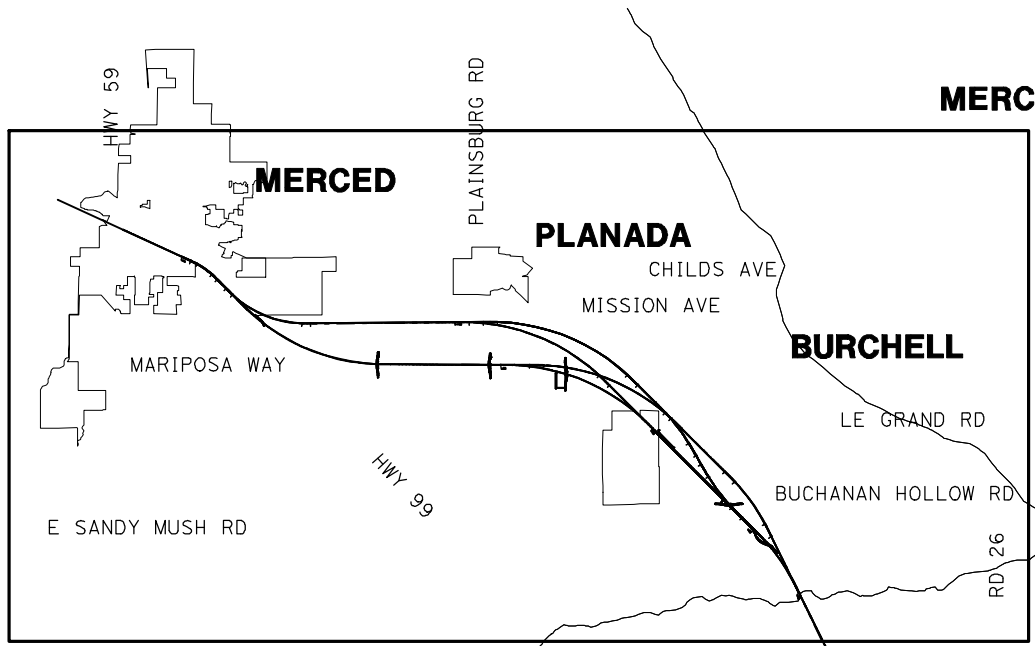
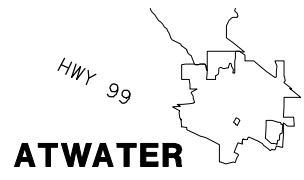


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 21 WYE

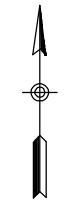
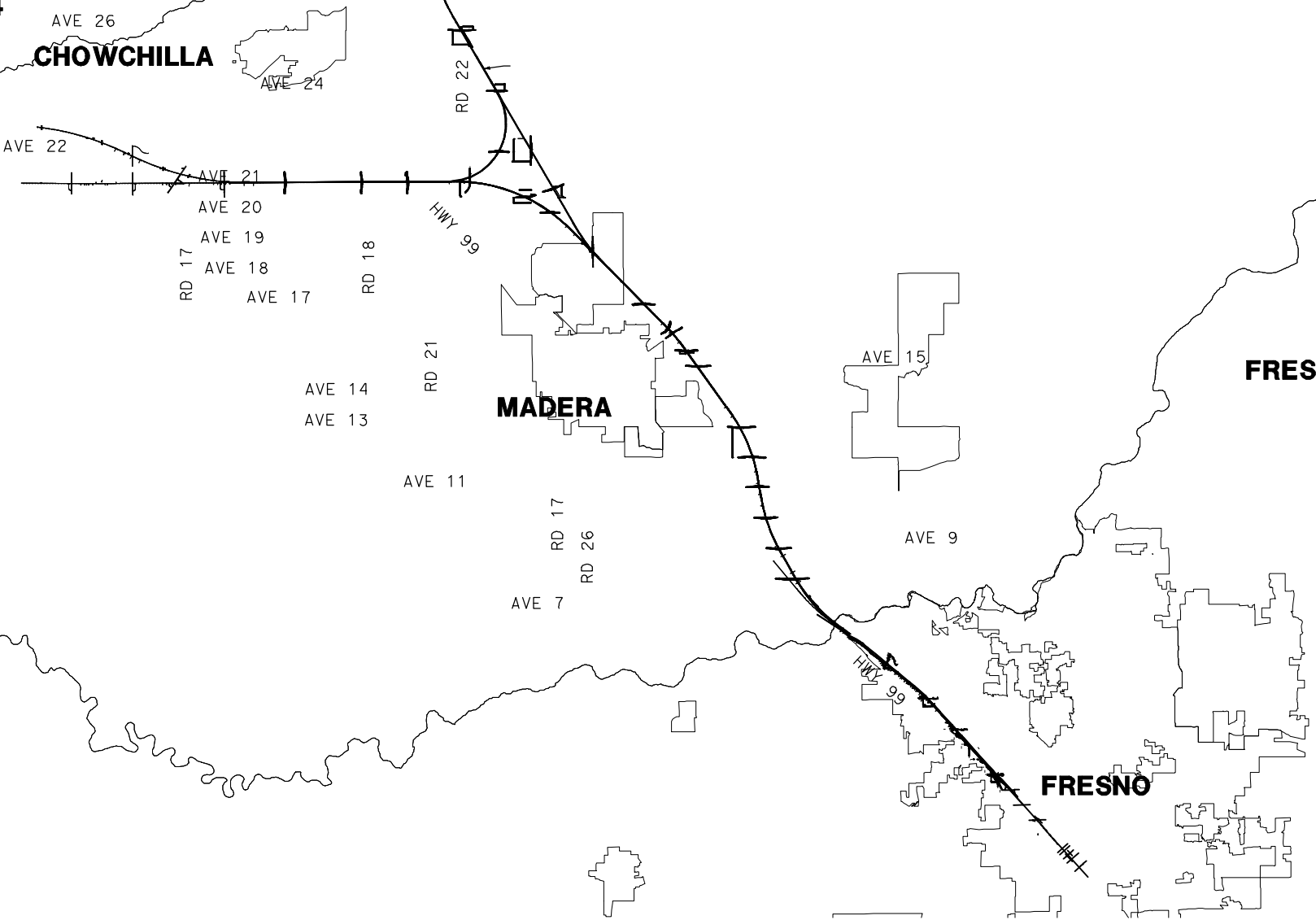
INDEX MAP
SHEET 2 OF 4

CONTRACT NO.	HSR06-007
DRAWING NO.	B0116-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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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 21 WYE
 MC - ALTERNATIVES NO. 1, NO. 2, & NO. 3

INDEX MAP
 SHEET 3 OF 4

CONTRACT NO.
HSR06-007

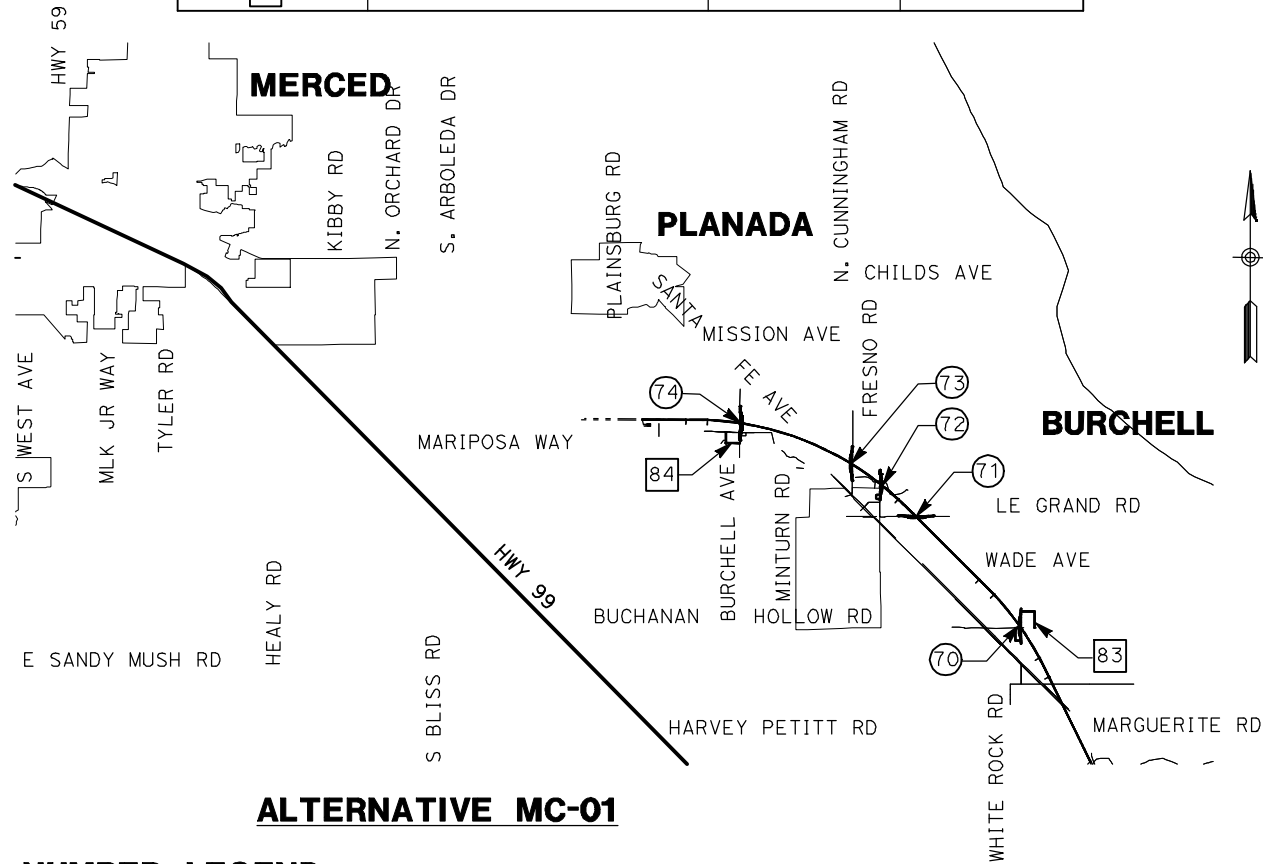
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SCALE
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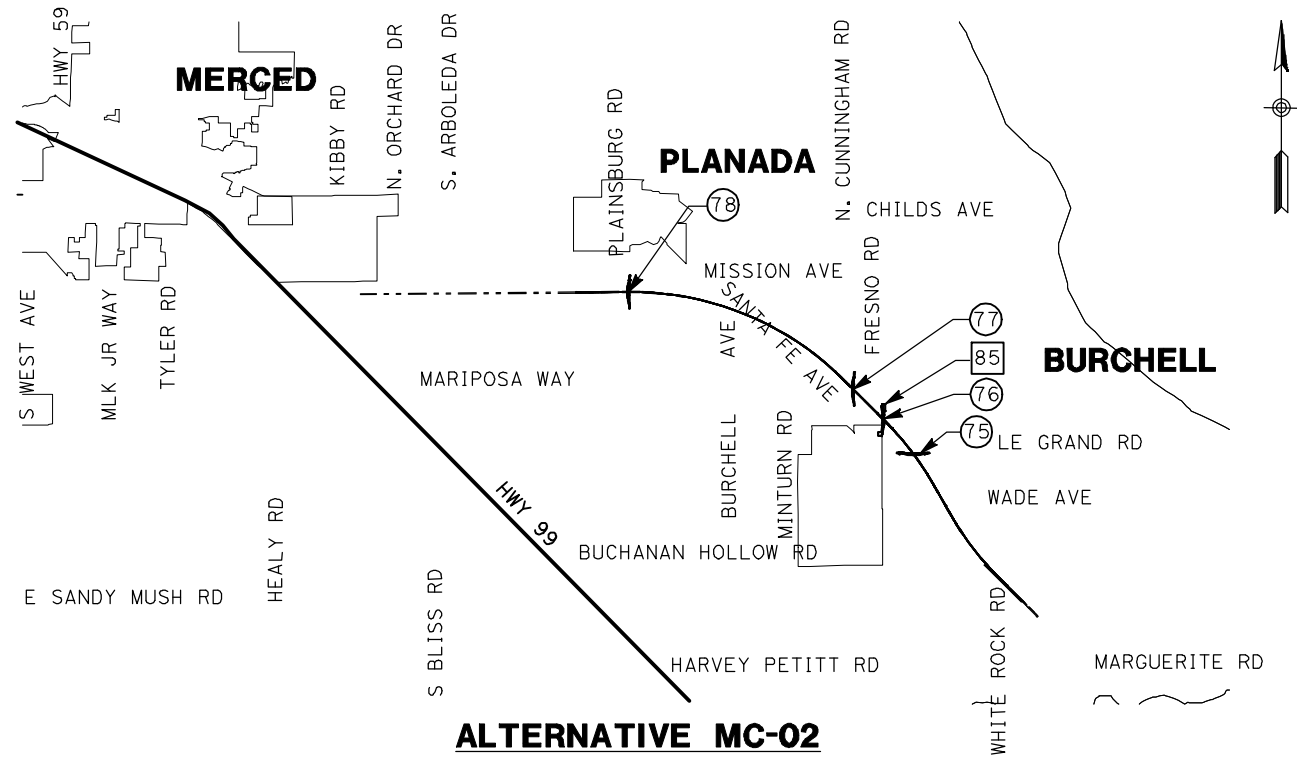
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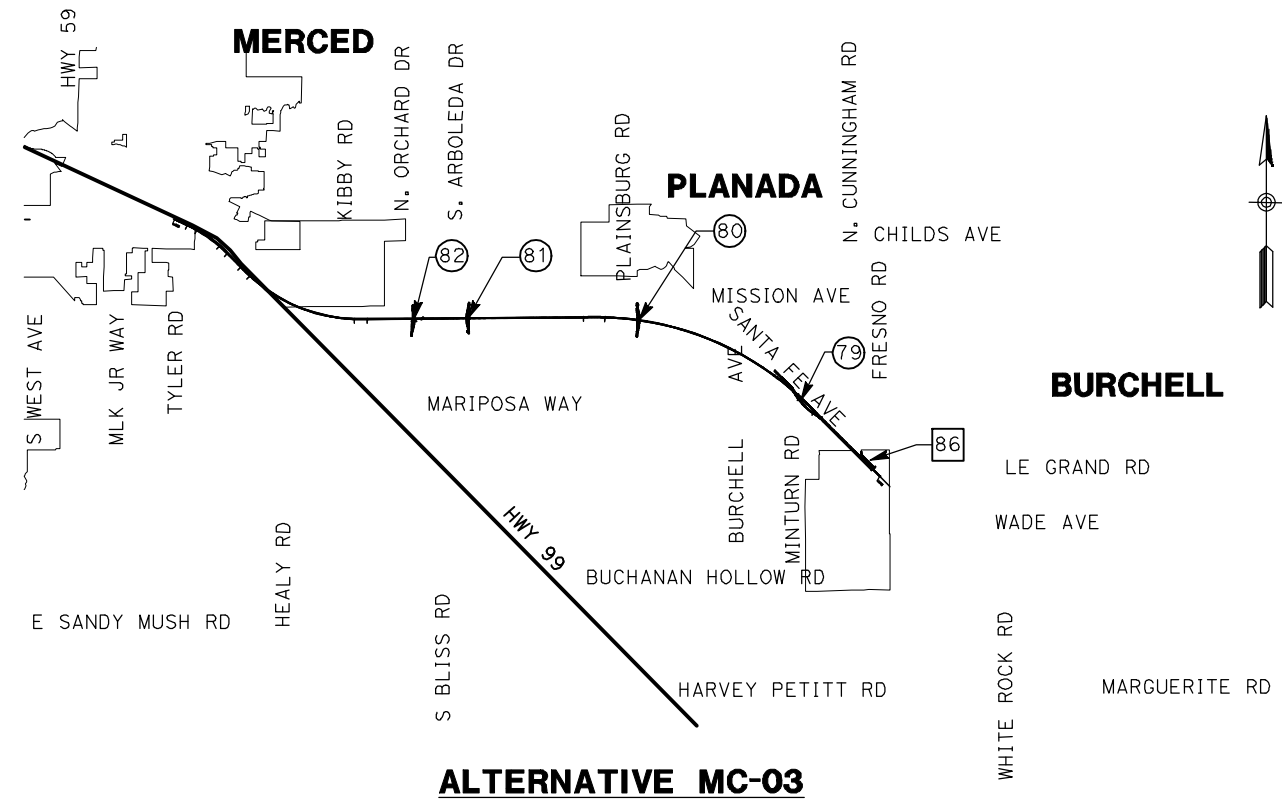
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
70	GRADE SEPARATION - WHITE ROCK RD	CT0200-A - CT0202-A	ST1050
71	GRADE SEPARATION - LE GRAND RD	CT0203-A - CT0205-A	ST1051
72	GRADE SEPARATION - S. FRESNO RD	CT0206-A - CT0208-A	ST1052
73	GRADE SEPARATION - S. CUNNINGHAM RD	CT0209-A - CT0211-A	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 RD	CR4200-A - CR4201-A	
84	LOCAL ROAD - BURCHELL AVE	CR4202-A	
85	LOCAL ROAD - FRESNO RD	CR4255-A	
86	LOCAL ROAD - SANTA FE AVE	CR4300-A - CR4301-A	



ALTERNATIVE MC-01



ALTERNATIVE MC-02

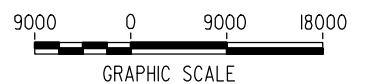


ALTERNATIVE MC-03

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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REV	DATE	BY	CHK	APP	DESCRIPTION

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

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MERCED TO FRESNO**
BNSF - AVE 21 WYE
MC - ALTERNATIVES NO. 1, NO. 2, & NO. 3

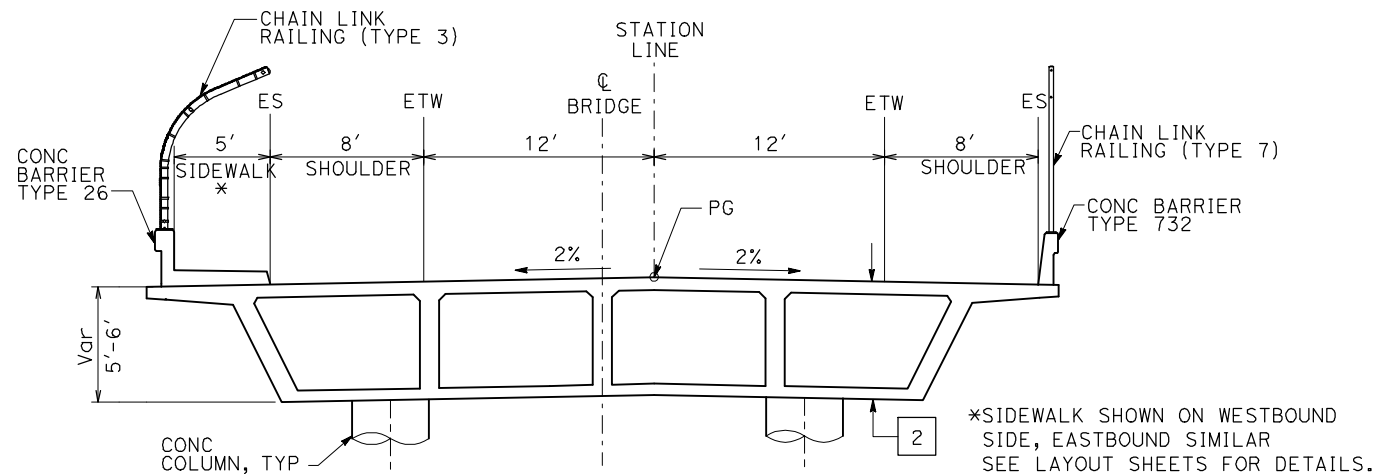
INDEX MAP
SHEET 4 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
B0120-A
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.

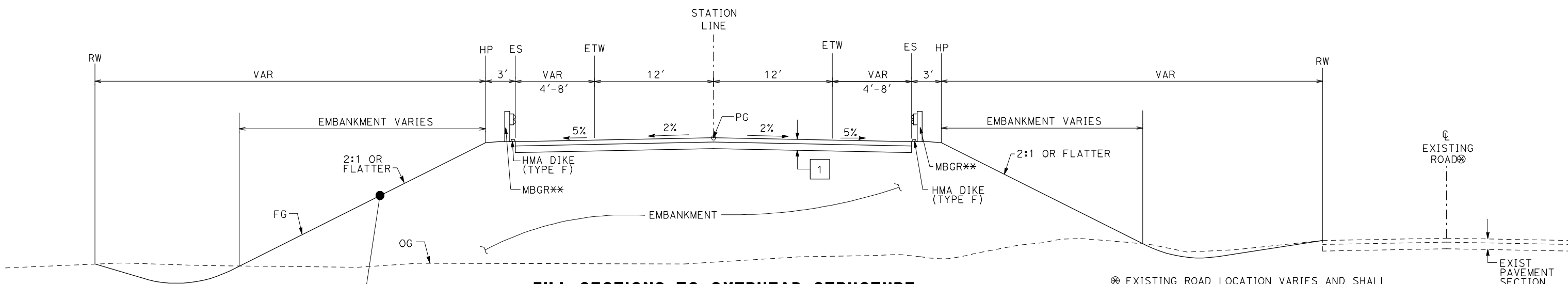


OVERHEAD STRUCTURE

SEE STRUCTURAL PLANS

STRUCTURAL SECTIONS:

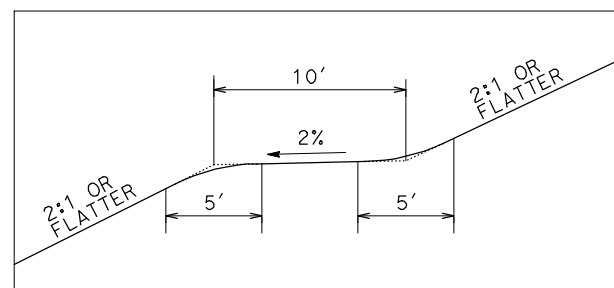
- 1 [HMA TYPE A
AB CLASS 2
- 2 [CAST IN PLACE / PRESTRESSED
BOX GIRDER (6' STRUCTURE DEPTH)
- 3 [AB CLASS 2



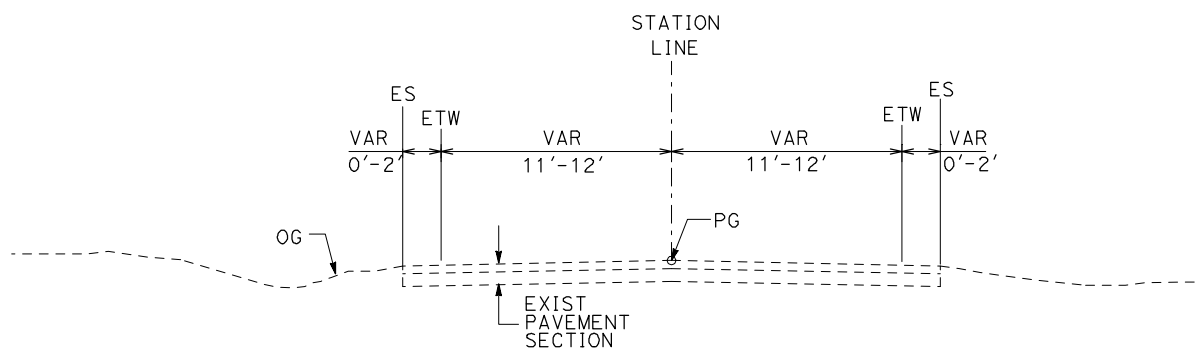
FILL SECTIONS TO OVERHEAD STRUCTURE

WEST SIDE SHOWN (EAST SIDE SIMILAR)

** EXACT LIMITS OF MBGR PER AGENCY REQUIREMENTS.



BENCHING DETAIL



EXISTING LOCAL ROAD

WEST SIDE SHOWN (EAST SIDE SIMILAR)

SEE LAYOUT SHEETS FOR ACTUAL ROADWAY WIDTHS AT EACH CROSSING

TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A1, AVE 21 WYE:

NO.	STREET NAME		
1	WHITE ROCK RD	12	ROAD 22
2	LE GRAND RD	13	ROAD 20
3	S. FRESNO RD	14	ROAD 18.5
4	S. CUNNINGHAM RD	15	ROAD 16
5	PLAINSBURG RD	16	Avenue 22
6	S. ARBOLEDA RD		
7	S. ORCHARD RD.		
8	AVENUE 21		
9	ROAD 24		
10	AVENUE 24		
11	AVENUE 22		

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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Sacramento, CA 95811

CH2M HILL

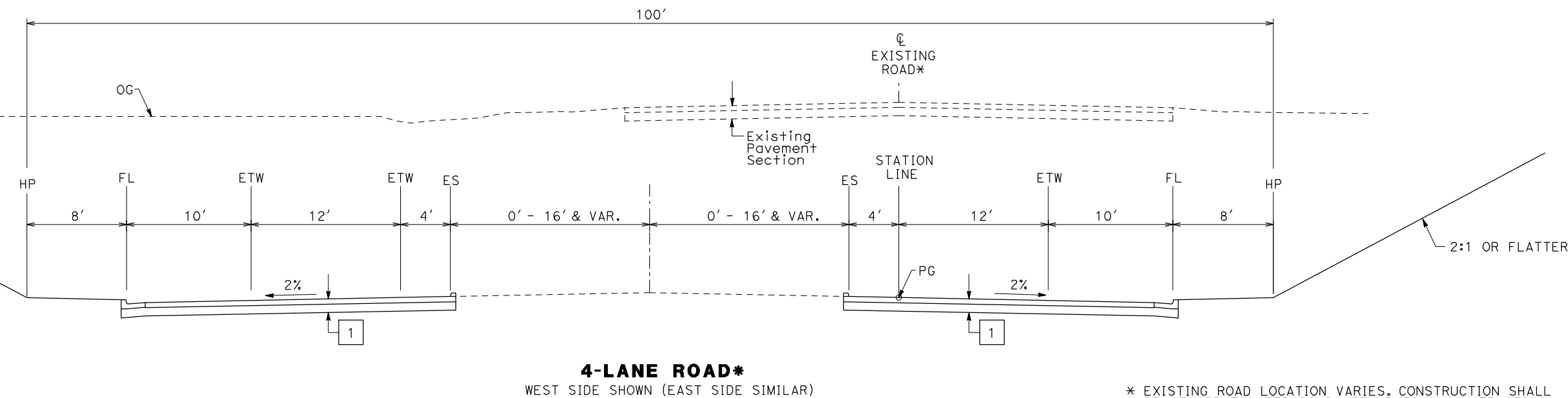
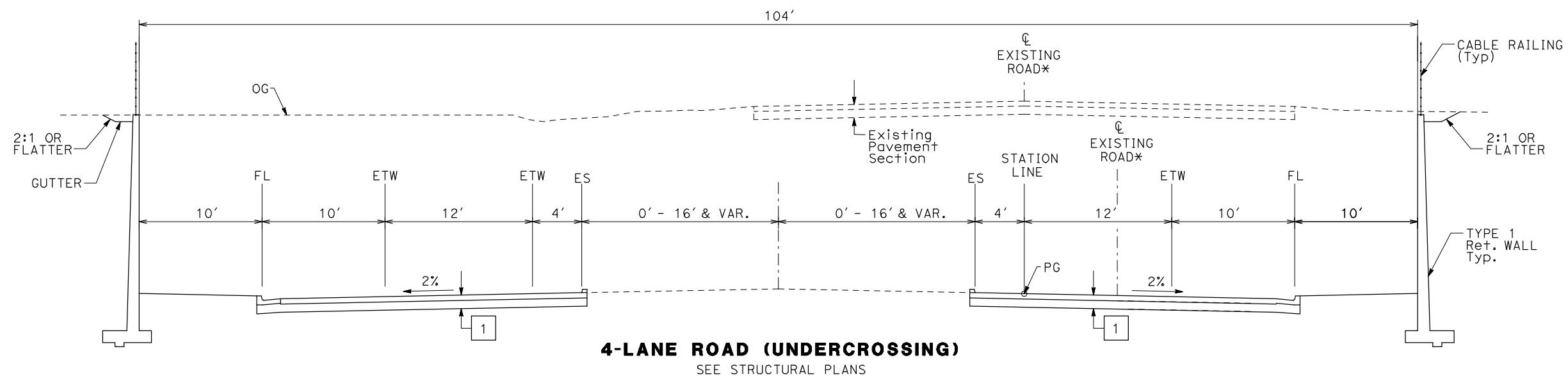
**CALIFORNIA
HIGH-SPEED RAIL AUTHORITY**

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

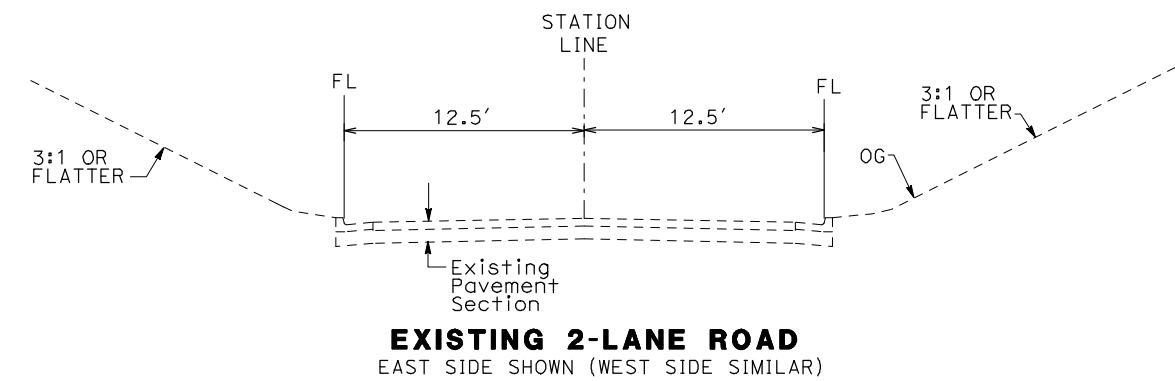
BNSF - AVE 21 WYE
TYPICAL CROSS SECTIONS
GRADE SEPARATIONS
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CT0121-A
SCALE NONE
SHEET NO. ### OF ###

4/29/2011 1:50:53 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave21\Volume 1A - Ave 21 Wye Grade Separation\Typical Section.WF-CT-0122-A.dgn



* 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
2	AVENUE 24
3	ROAD 22

REV	DATE	BY	CHK	APP	DESCRIPTION

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

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

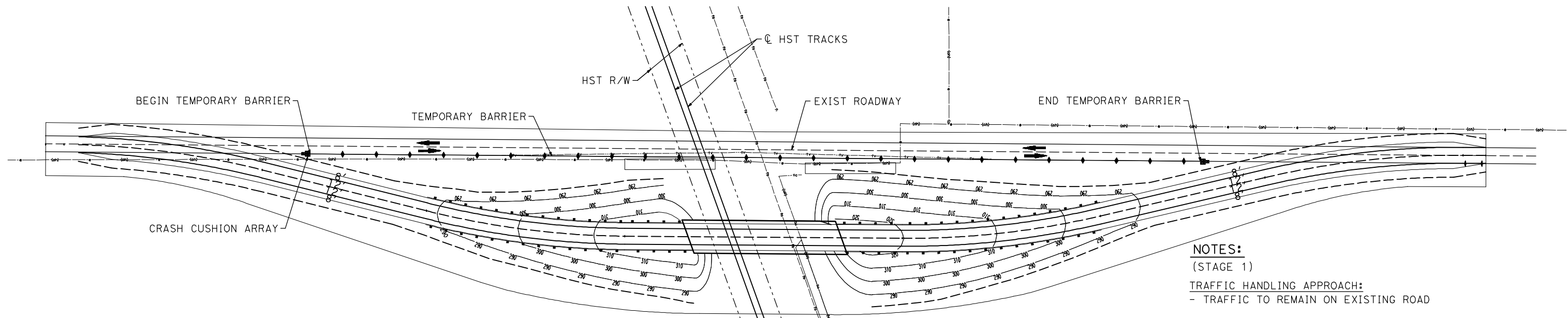


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF - AVE 21 WYE
TYPICAL CROSS SECTIONS
GRADE SEPARATIONS
SHEET 2 OF 2

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0122-A
SCALE
NTS
SHEET NO.
OF

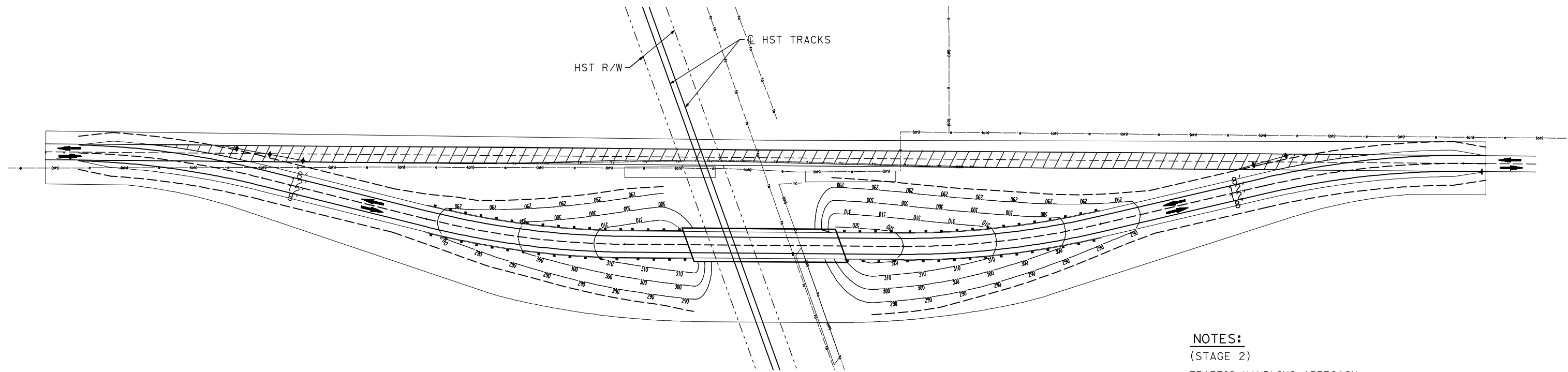
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STAGE CONSTRUCTION (STAGE 1)

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 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

**RECORD SET
 15% DESIGN
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**

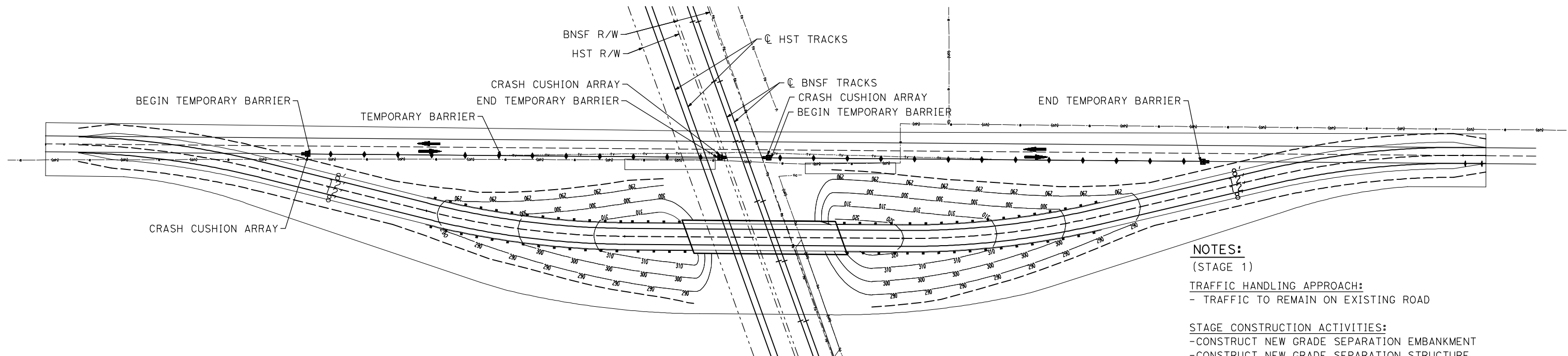


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

BNSF - AVE 21 WYE
 GENERAL STAGE CONSTRUCTION &
 TRAFFIC HANDLING APPROACH
 SHEET 1 OF 2

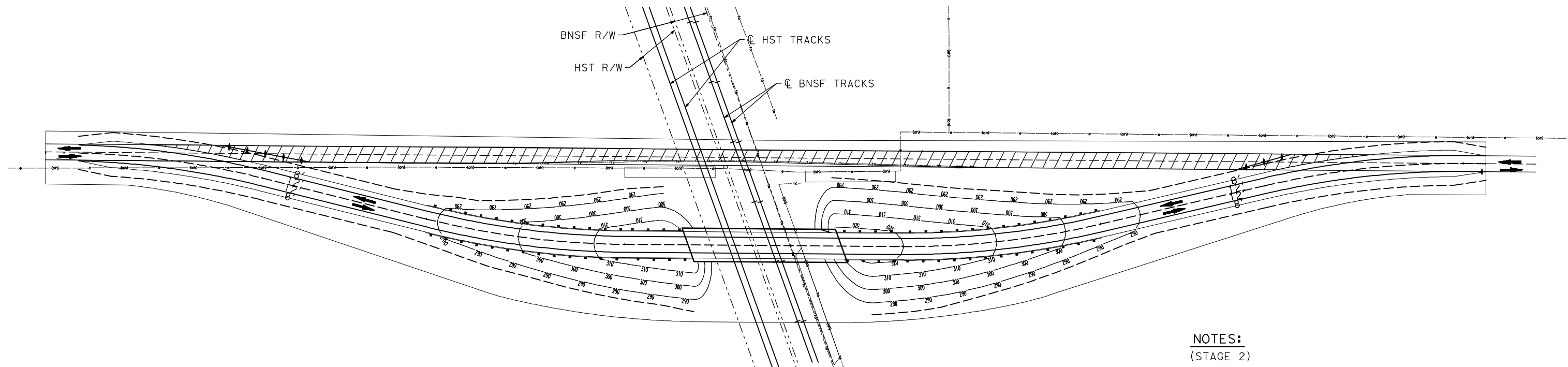
CONTRACT NO.
HSR06-007
 DRAWING NO.
CT5000-A
 SCALE
NO SCALE
 SHEET NO.
OF

4/29/2011 1:51:09 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\ROADWAY\1-Ave21\Volume 1A - Ave 21 Wye Grade Separation\Staging_WF-CT-5000-B.dgn



STAGE CONSTRUCTION (STAGE 1)




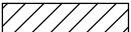
NOTES:
 (STAGE 1)
TRAFFIC HANDLING APPROACH:
 - TRAFFIC TO REMAIN ON EXISTING ROAD
STAGE CONSTRUCTION ACTIVITIES:
 - CONSTRUCT NEW GRADE SEPARATION EMBANKMENT
 - CONSTRUCT NEW GRADE SEPARATION STRUCTURE
 - CONSTRUCT DRAINAGE FACILITY



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

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

**RECORD SET
 15% DESIGN
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**

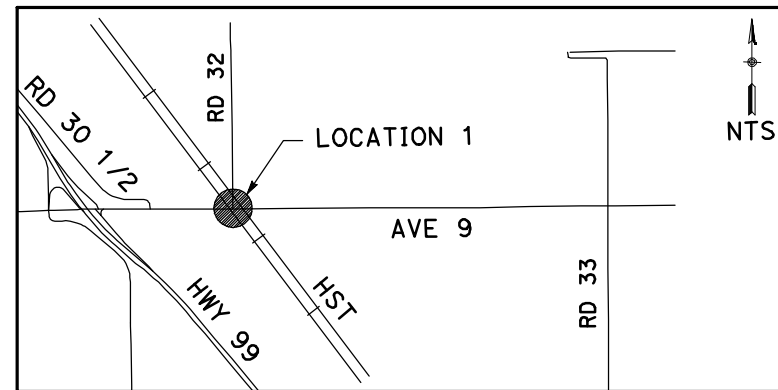


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

BNSF - AVE 21 WYE
 GENERAL STAGE CONSTRUCTION &
 TRAFFIC HANDLING APPROACH
 SHEET 2 OF 2

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

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.



4/29/2011 1:51:24 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0001-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

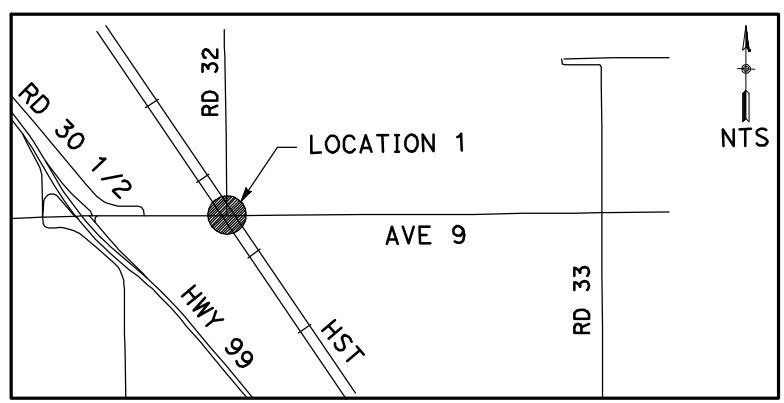
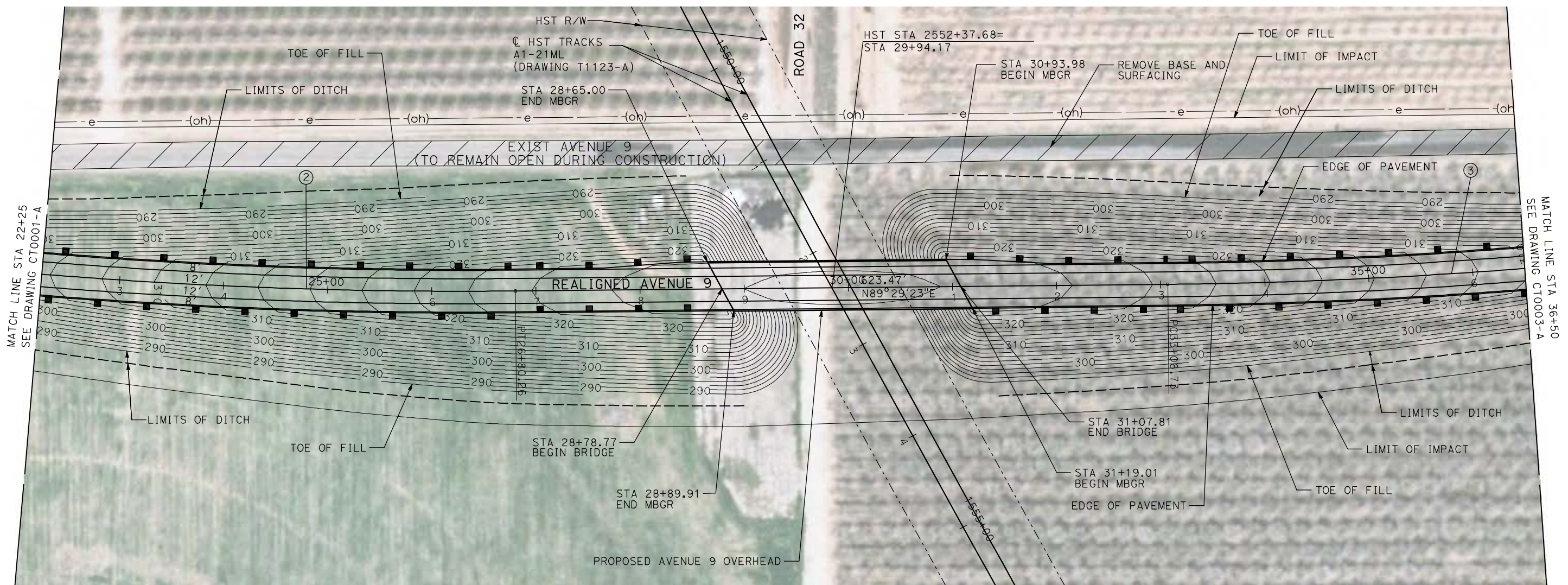


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 1 OF 3

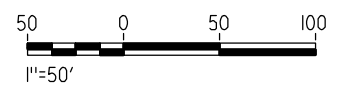
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HST06-007
DRAWING NO.
CT0001-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:51:31 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0002-A.dgn

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 CT1000-A THROUGH CT1002-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



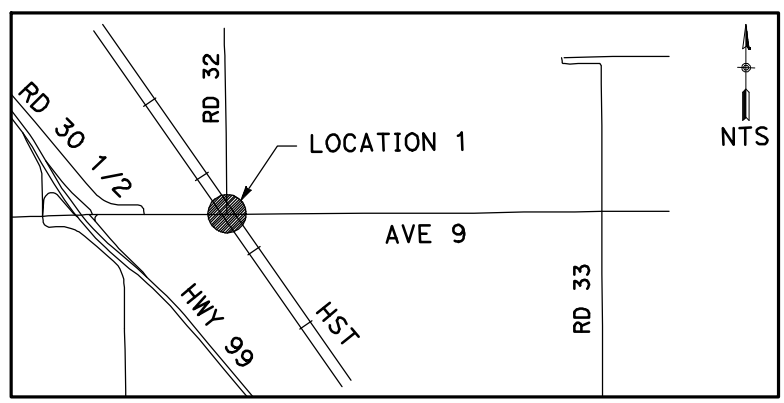
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 2 OF 3

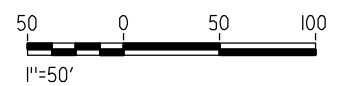
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DRAWING NO.
CT0002-A
SCALE
AS SHOWN
SHEET NO.
OF

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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 CT1000-A THROUGH CT1002-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

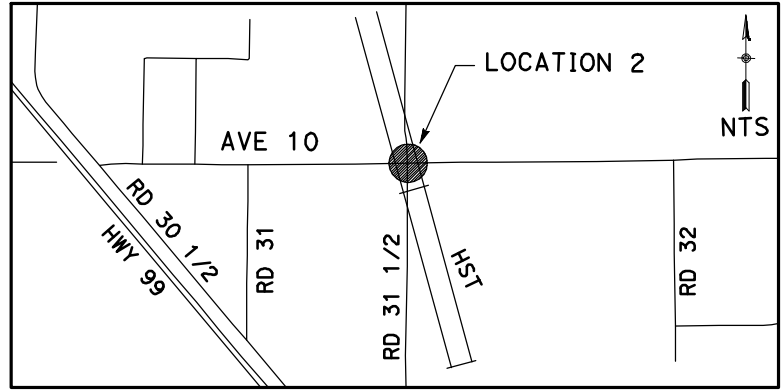
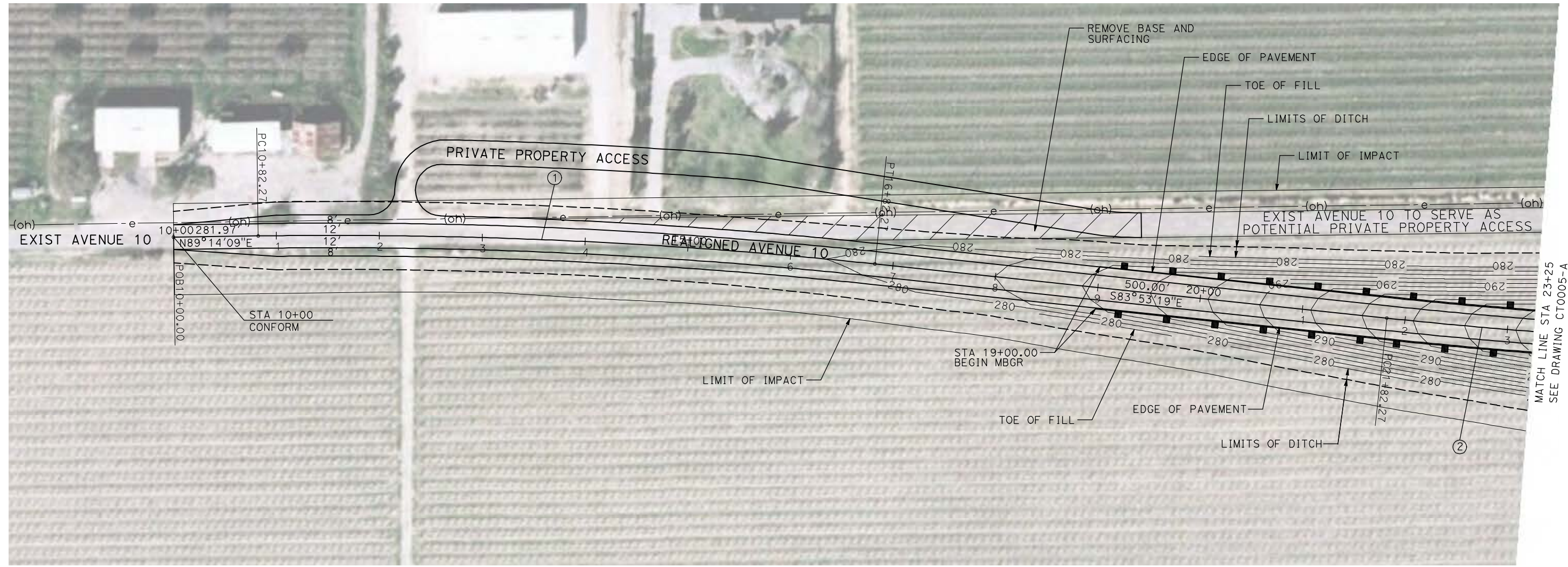
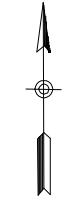


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 3 OF 3

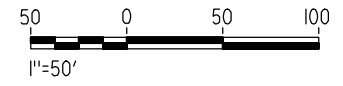
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HST06-007
DRAWING NO.
CT0003-A
SCALE
AS SHOWN
SHEET NO.
OF

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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



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

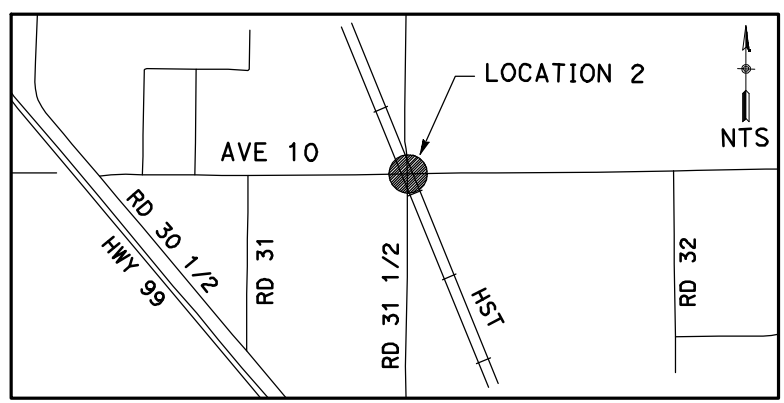
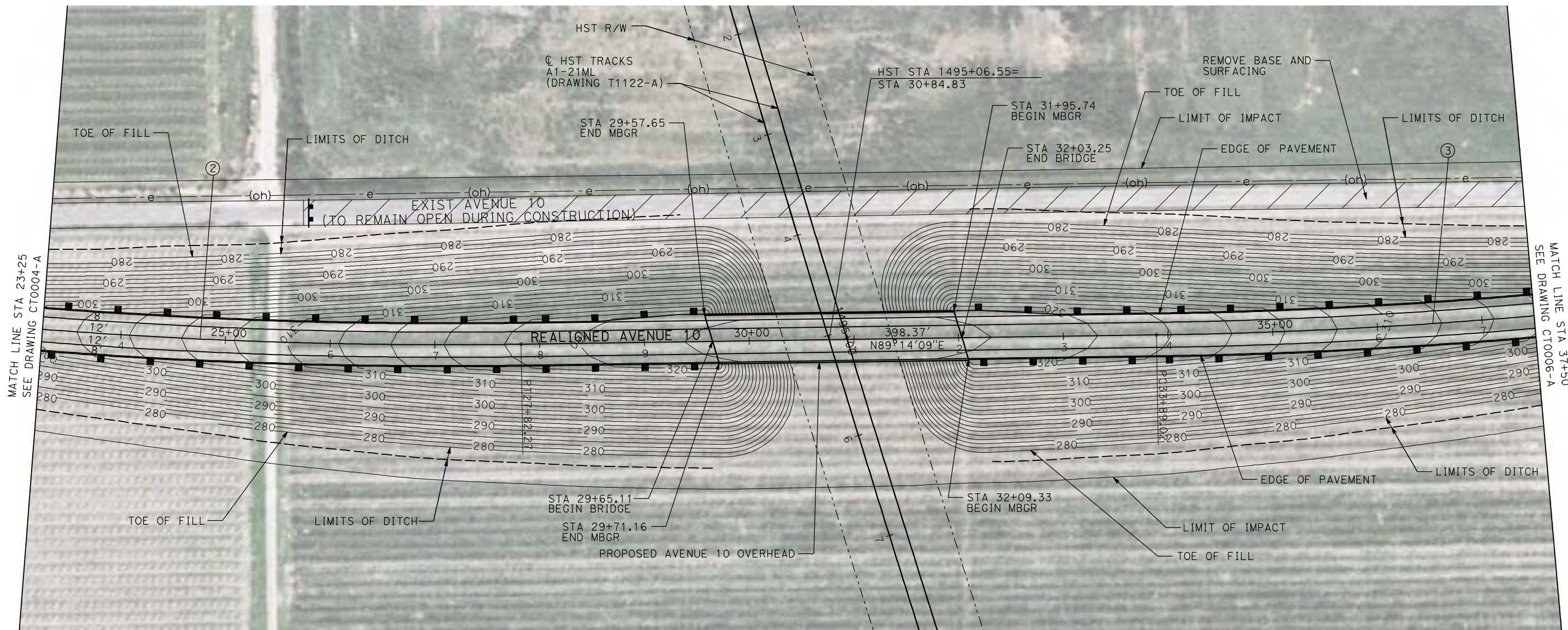
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 1 OF 3

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

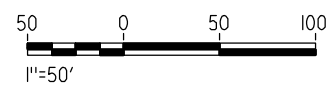
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CURVE DATA					
NO.	R	Δ	T	L	V
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③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



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



REV	DATE	BY	CHK	APP	DESCRIPTION

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

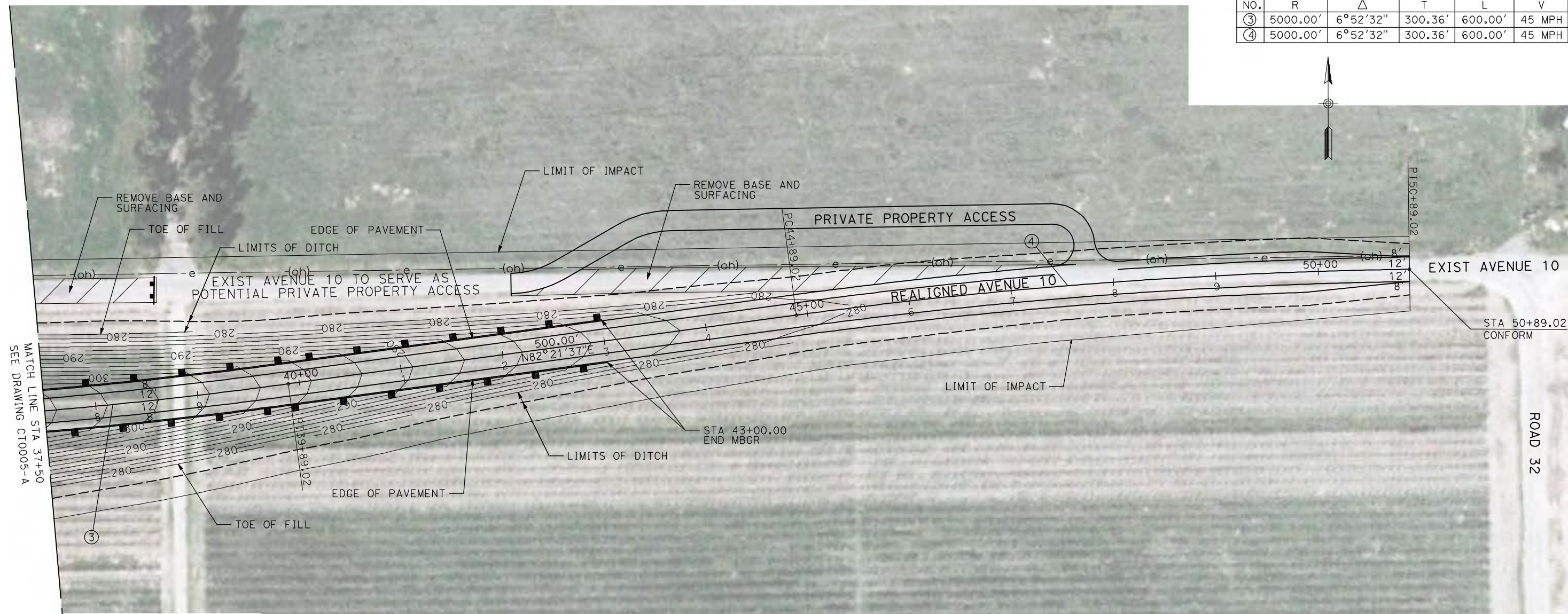


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 2 OF 3

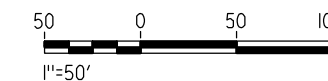
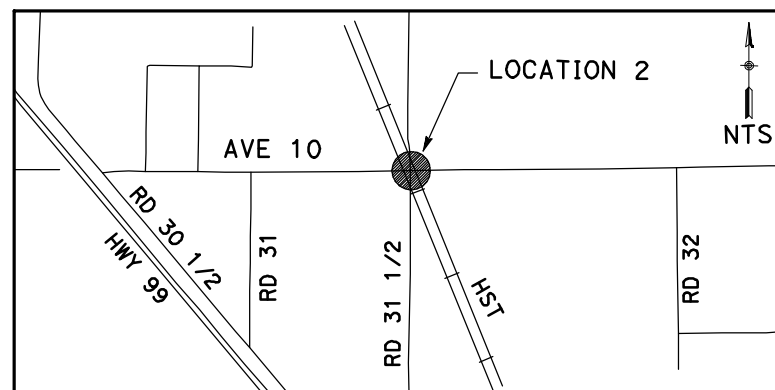
CONTRACT NO.
HST06-007
DRAWING NO.
CT0005-A
SCALE
AS SHOWN
SHEET NO.
OF

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 CT1003-A THROUGH CT1005-A.



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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**

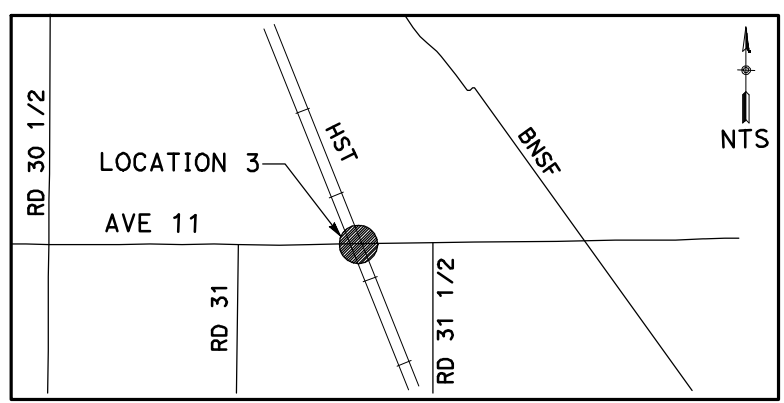
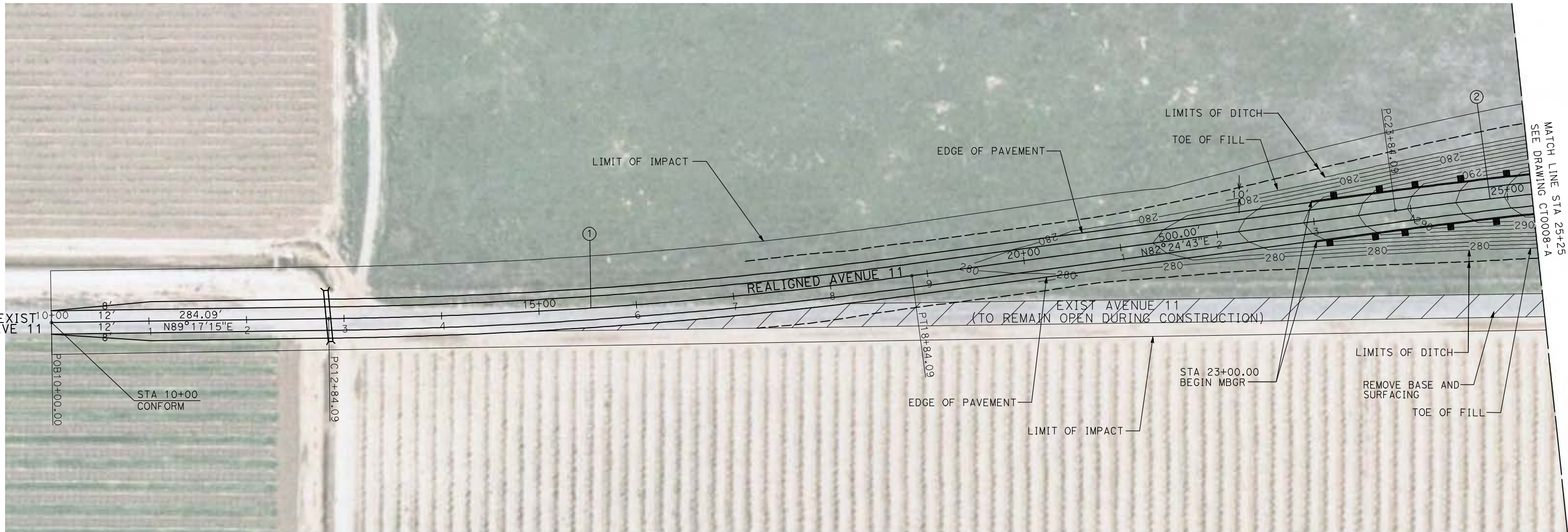
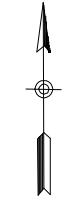


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 3 OF 3

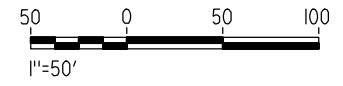
CONTRACT NO.
HST06-007
DRAWING NO.
CT0006-A
SCALE
AS SHOWN
SHEET NO.
OF

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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

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



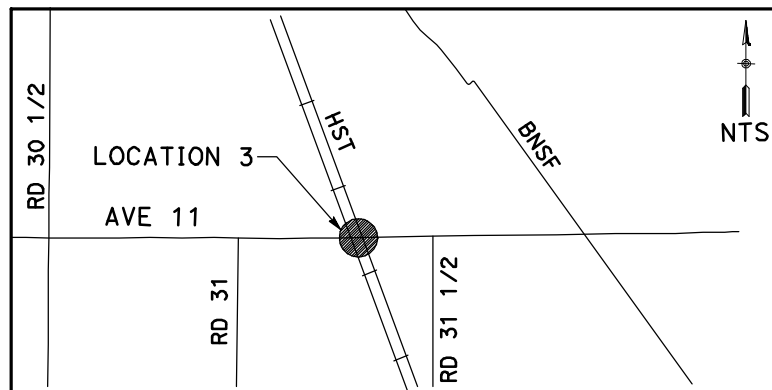
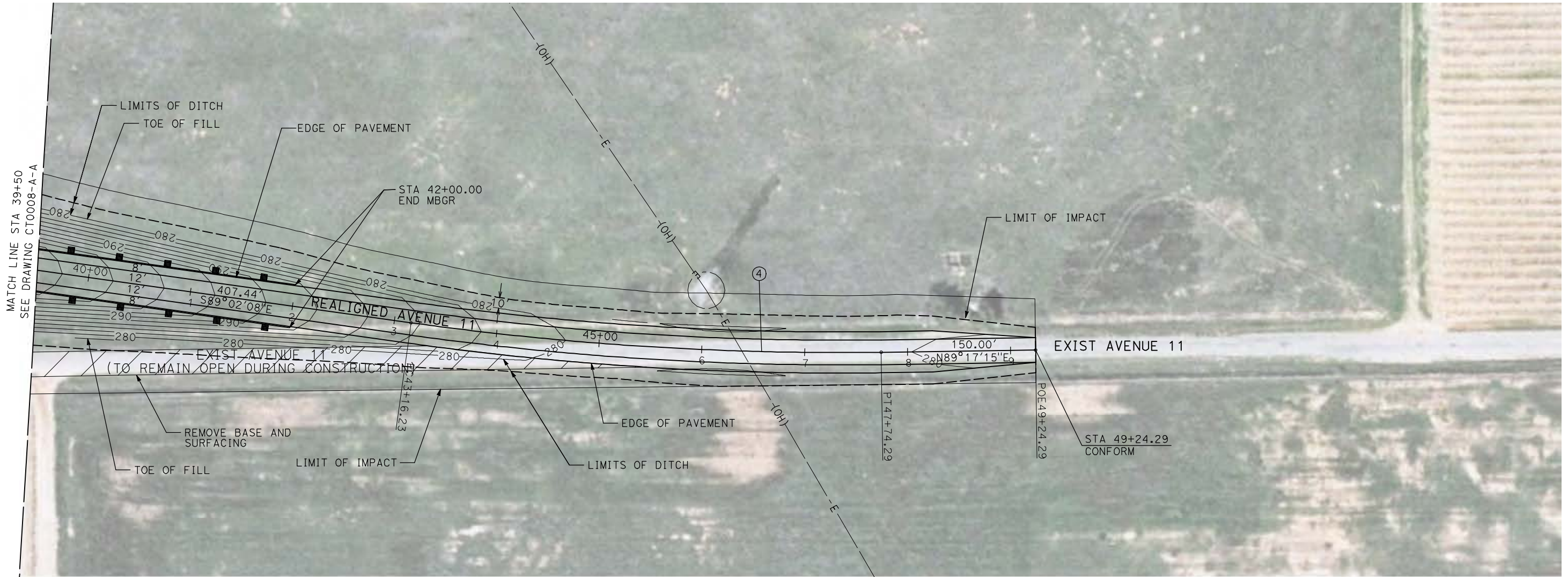
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 11
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0007-A
SCALE
AS SHOWN
SHEET NO.
OF

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.



4/29/2011 1:52:28 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0009-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

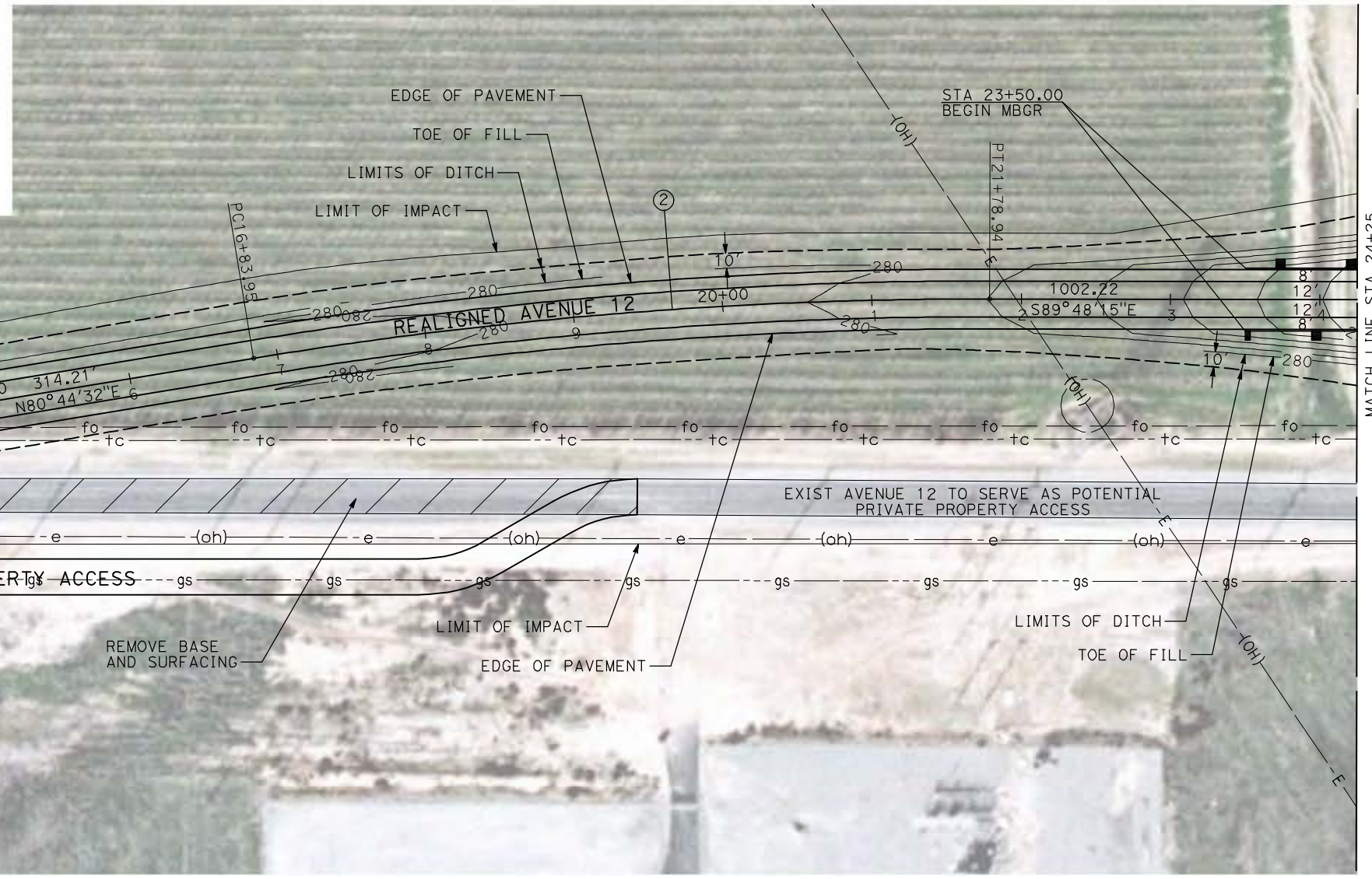
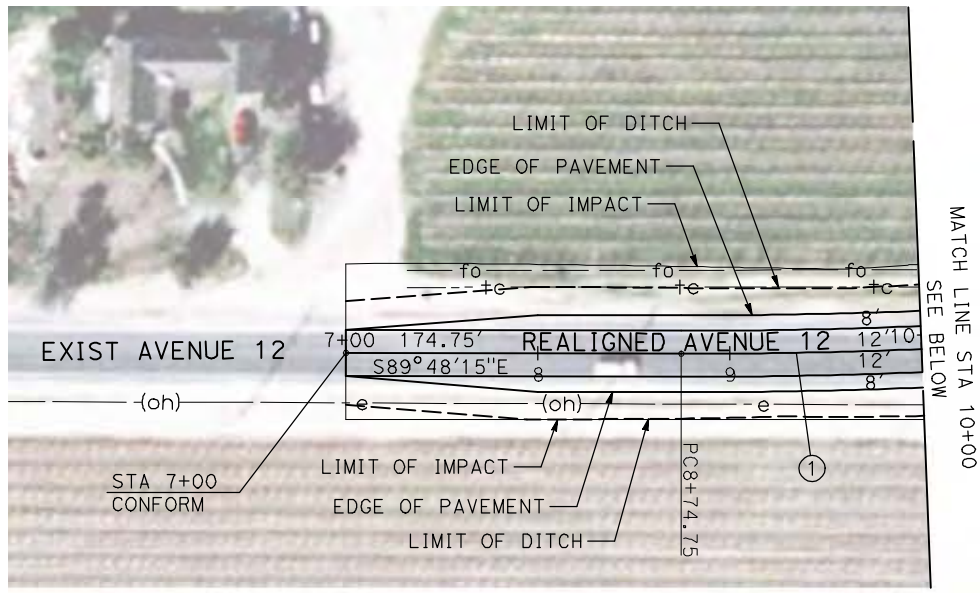
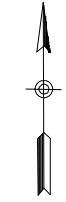
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 11
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0009-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:52:35 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0010-A.dgn

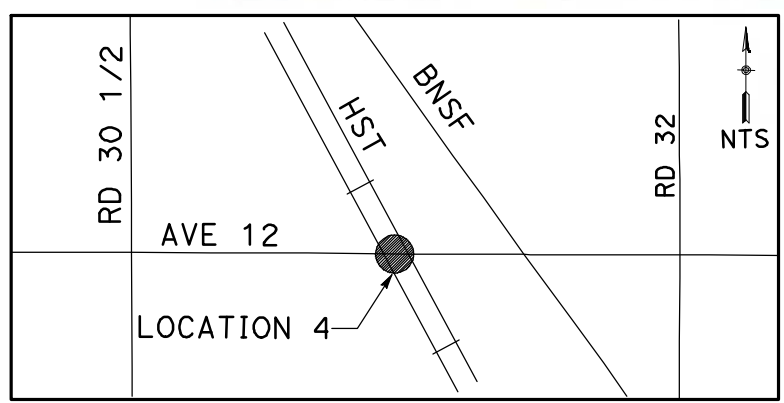
CURVE DATA

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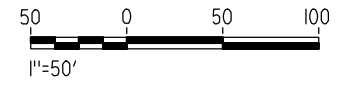


MATCH LINE STA 10+00
SEE A. BOONEVOYE

MATCH LINE STA 24+25
SEE DRAWING CT0011-A



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

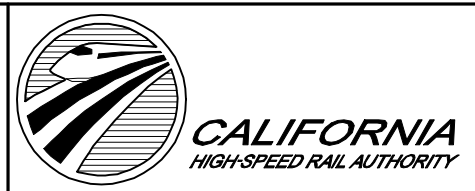


REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



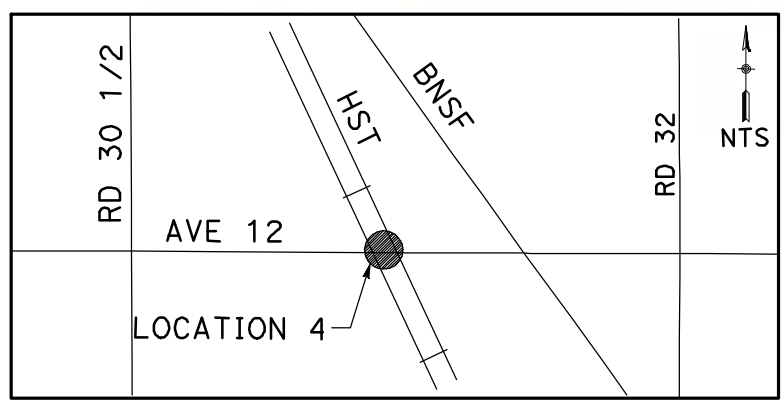
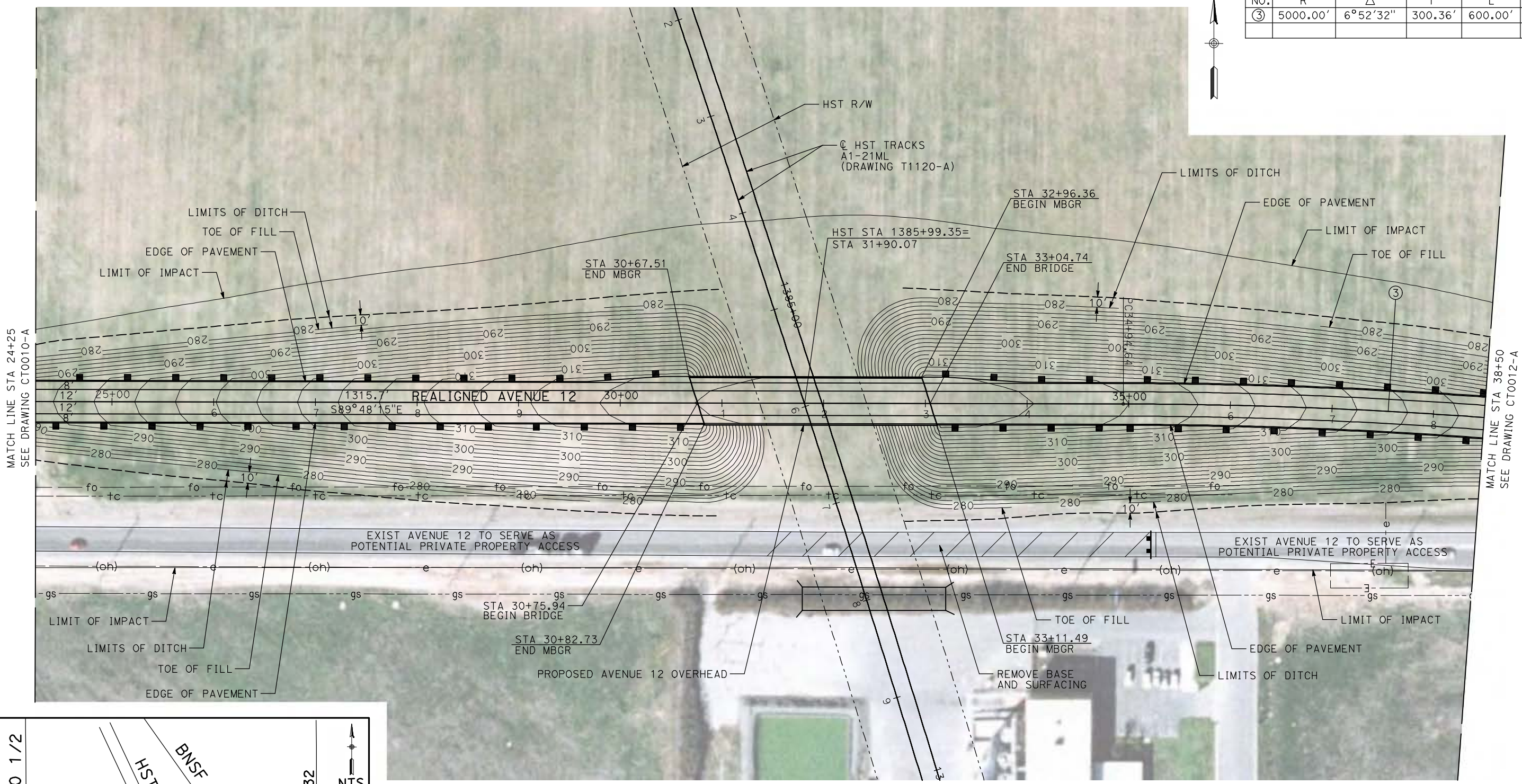
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 1 OF 3

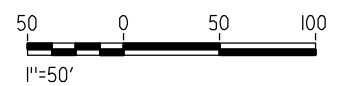
CONTRACT NO.
HST06-007
DRAWING NO.
CT0010-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:52:43 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-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



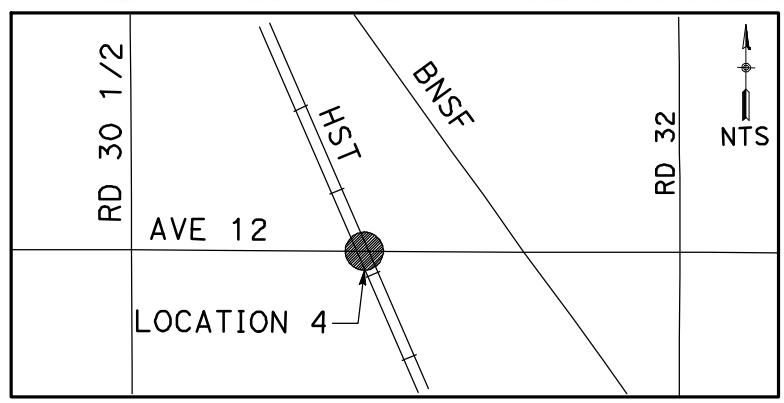
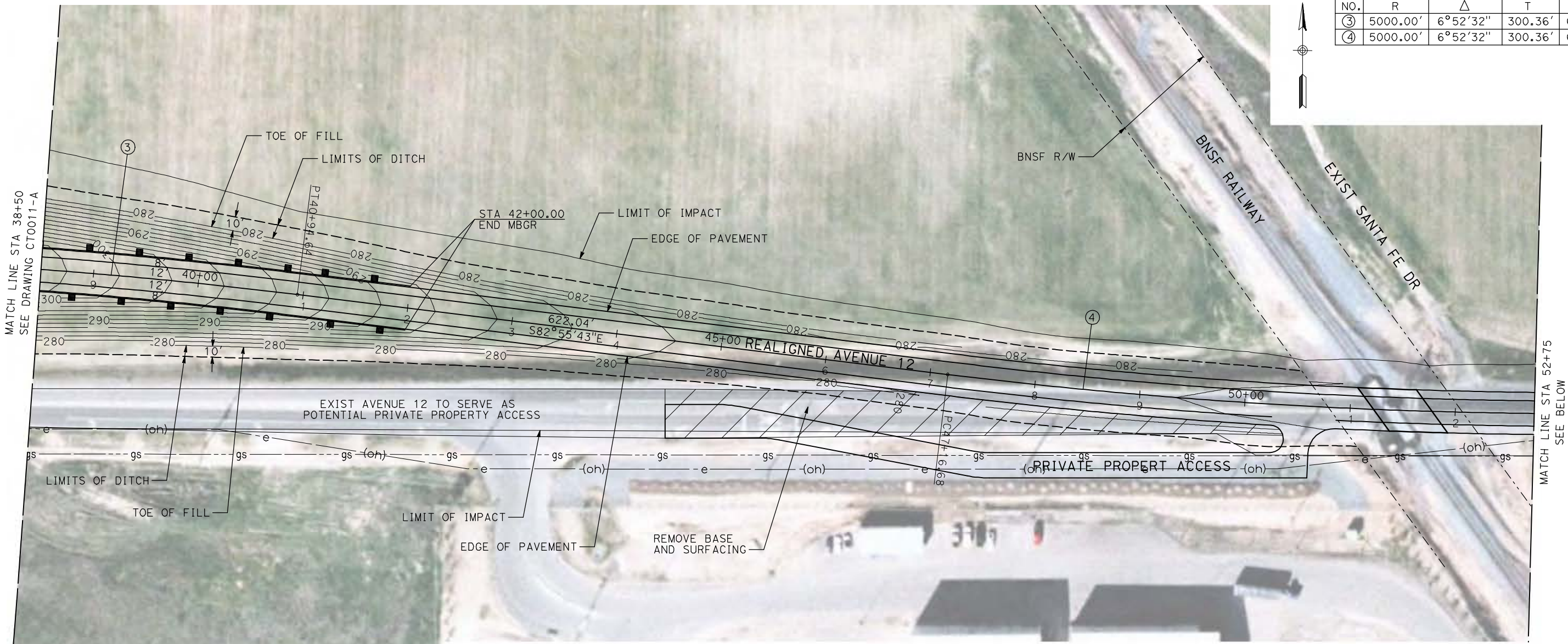
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 2 OF 3

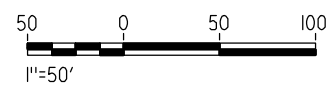
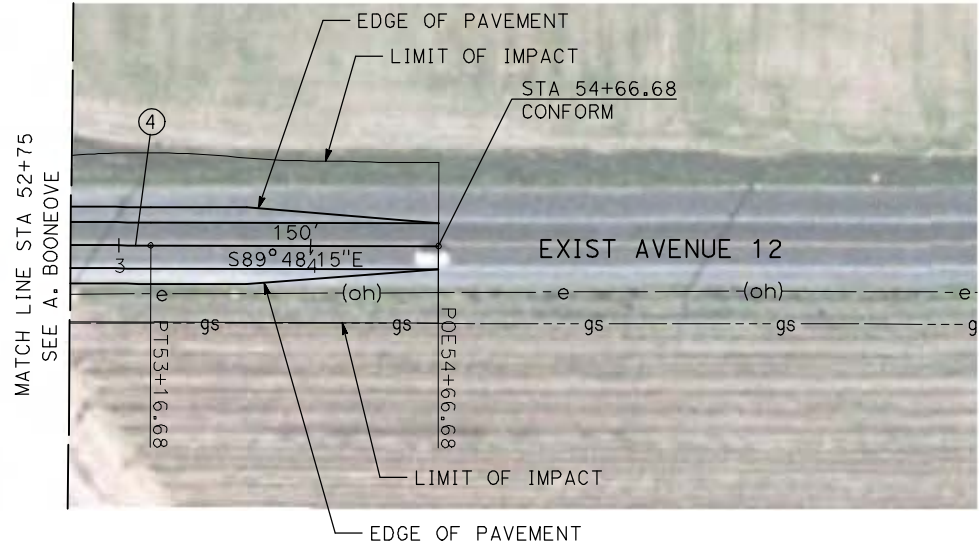
CONTRACT NO.
HST06-007
DRAWING NO.
CT0011-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:52:53 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0012-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 CT1009-A THROUGH CT1011-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
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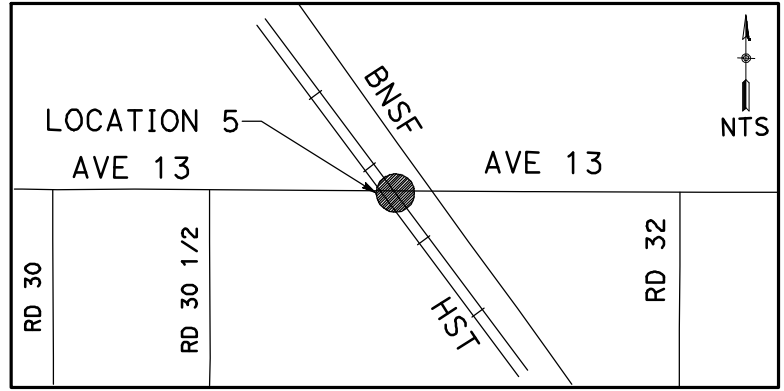
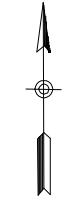
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 3 OF 3

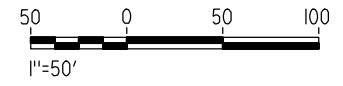
CONTRACT NO.
HST06-007
DRAWING NO.
CT0012-A
SCALE
AS SHOWN
SHEET NO.
OF

G:\bisonr1\4/29/2011 1:53:01 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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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04/29/2011

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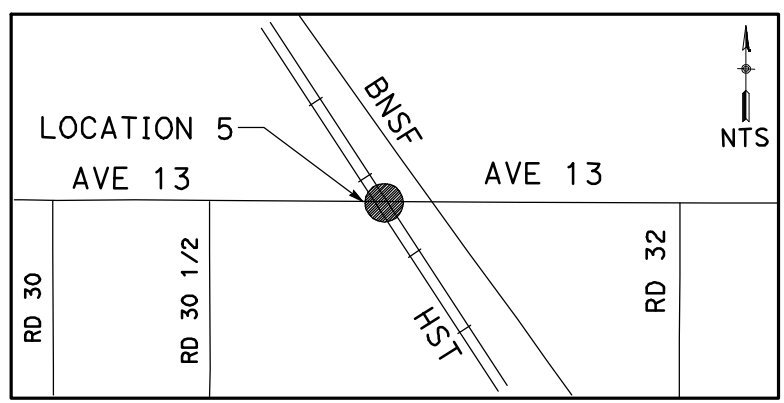
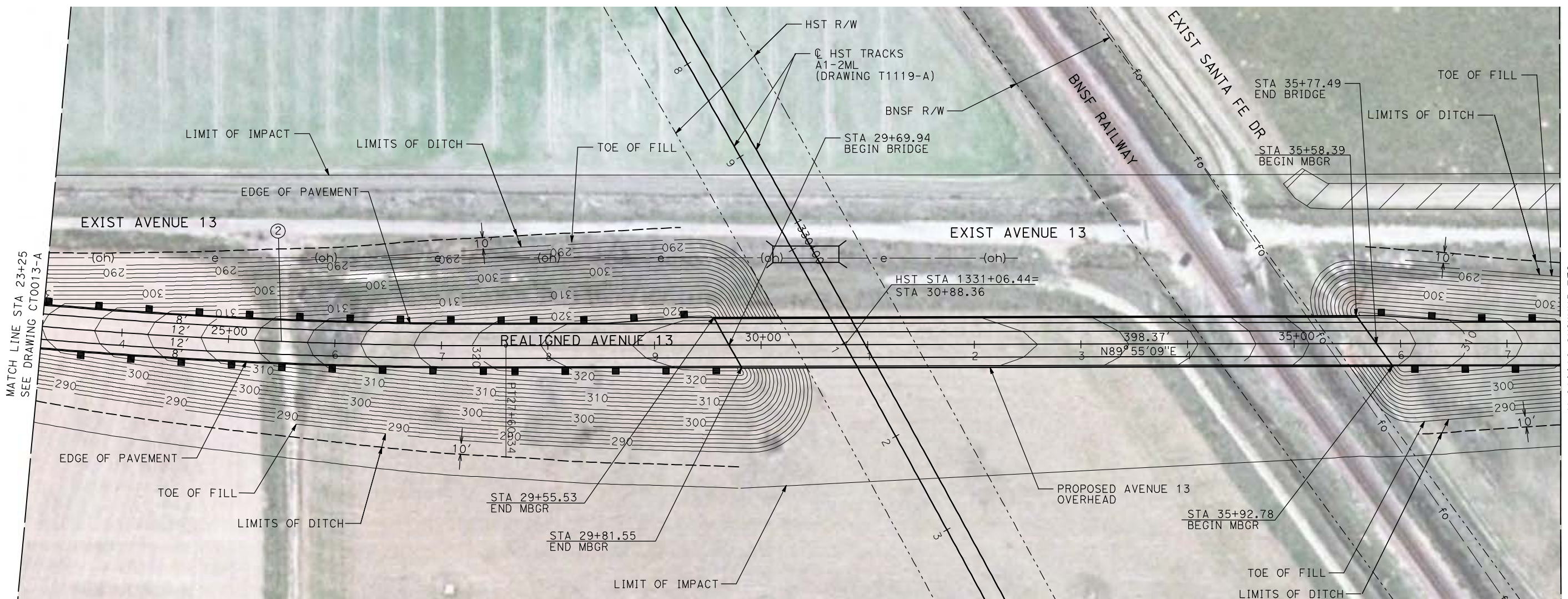
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 1 OF 4

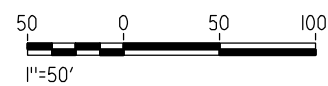
CONTRACT NO.
HST06-007
DRAWING NO.
CT0013-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:53:08 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-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
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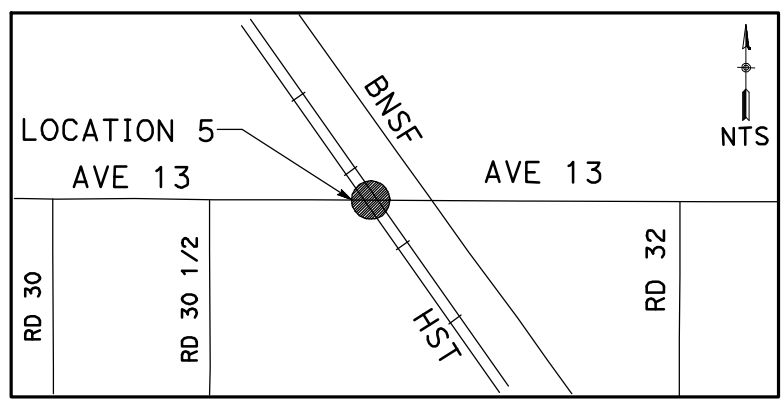
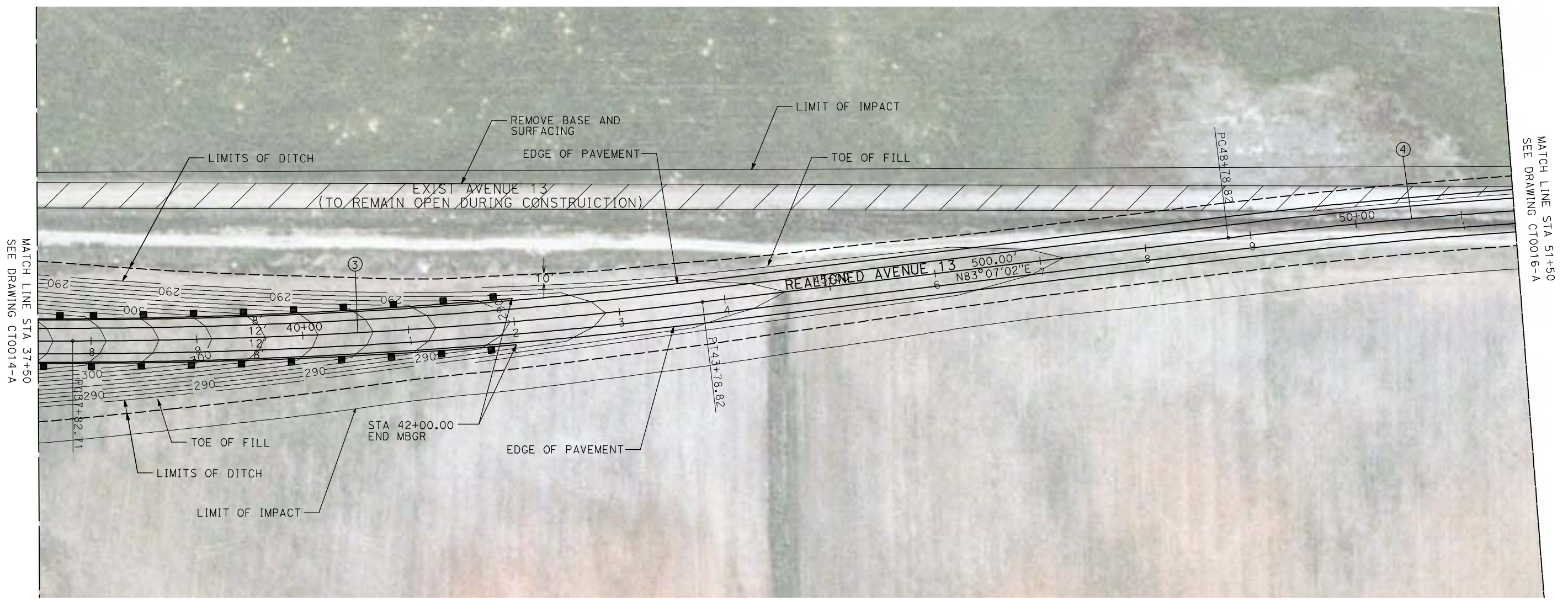
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 2 OF 4

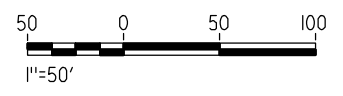
CONTRACT NO.
HST06-007
DRAWING NO.
CT0014-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:53:16 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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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04/29/2011

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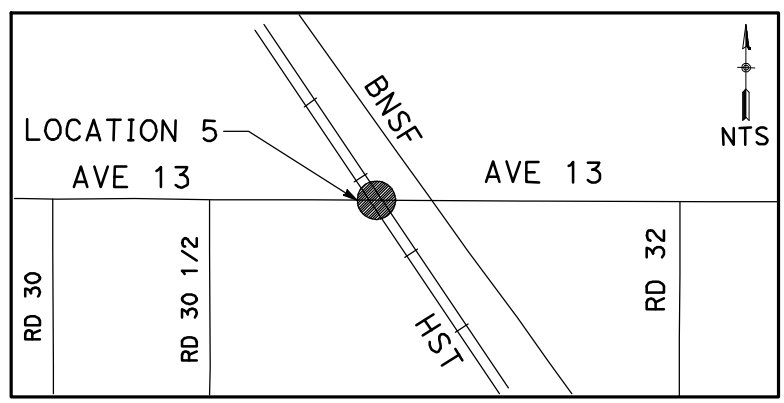
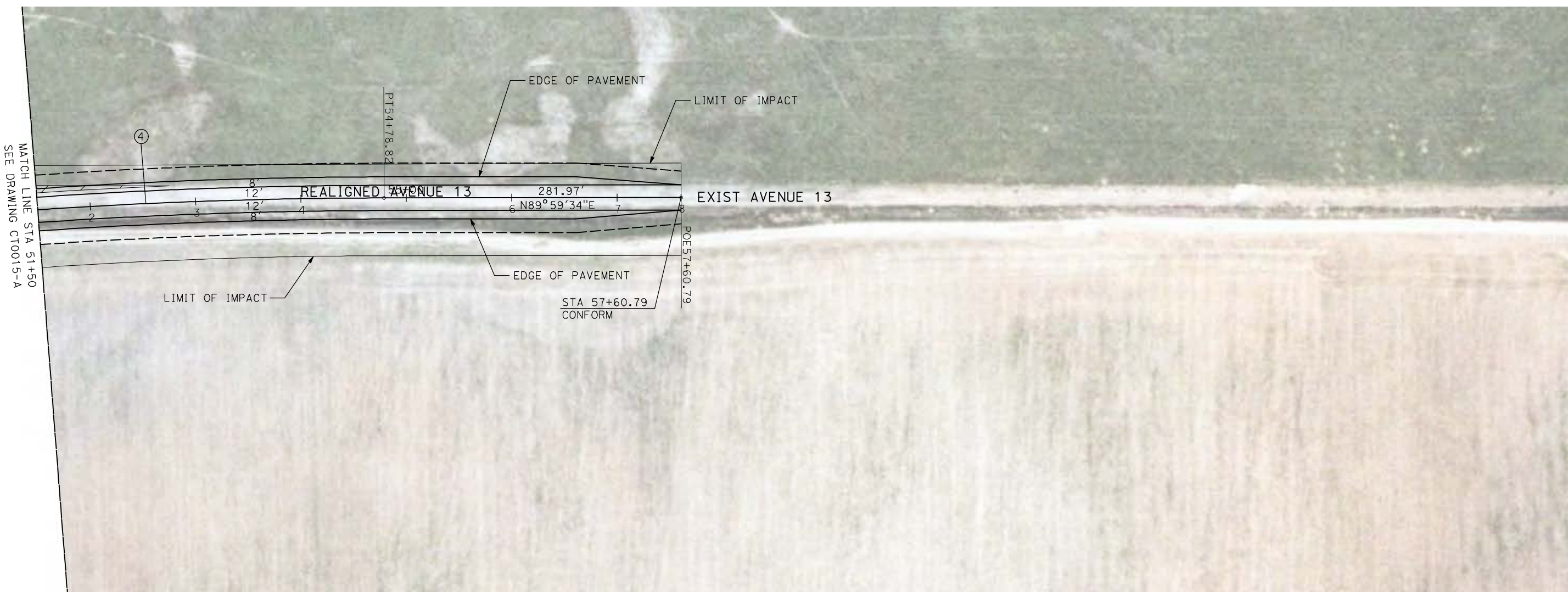


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 13
 LAYOUT
 SHEET 3 OF 4

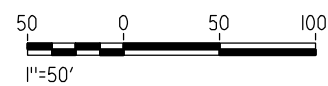
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0015-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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
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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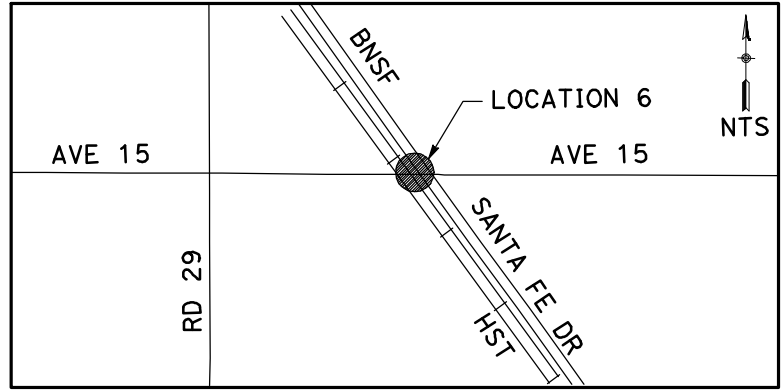
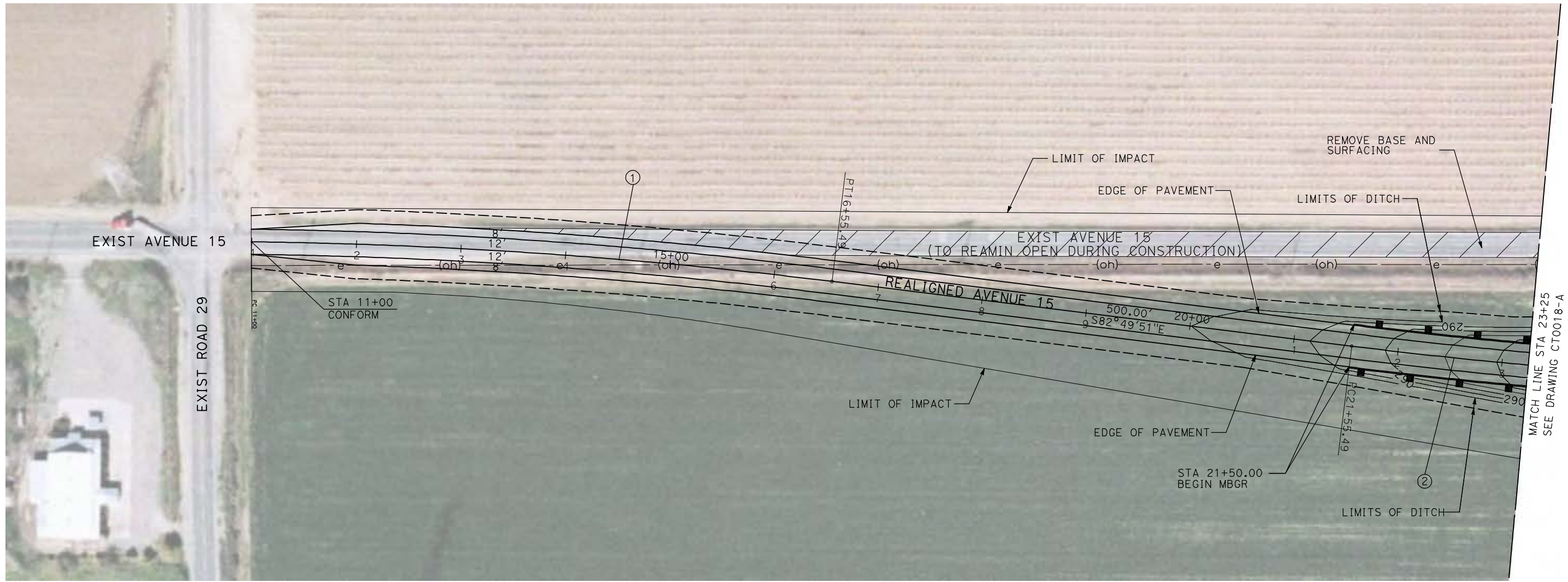
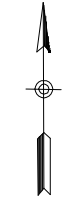
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 4 OF 4

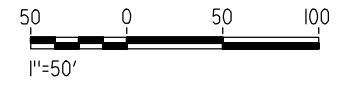
CONTRACT NO.
HST06-007
DRAWING NO.
CT0016-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:53:29 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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

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

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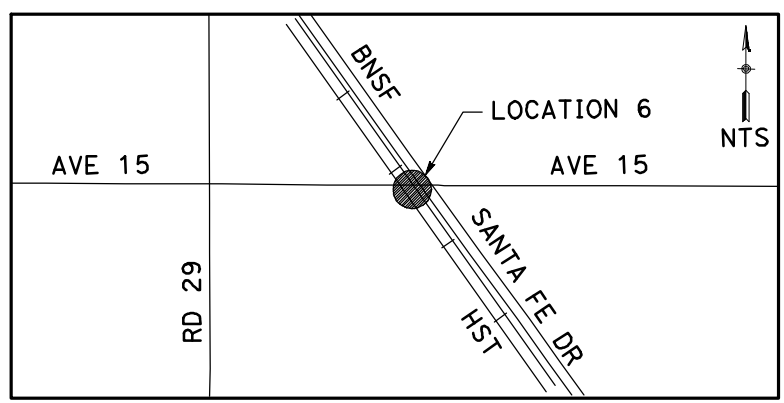
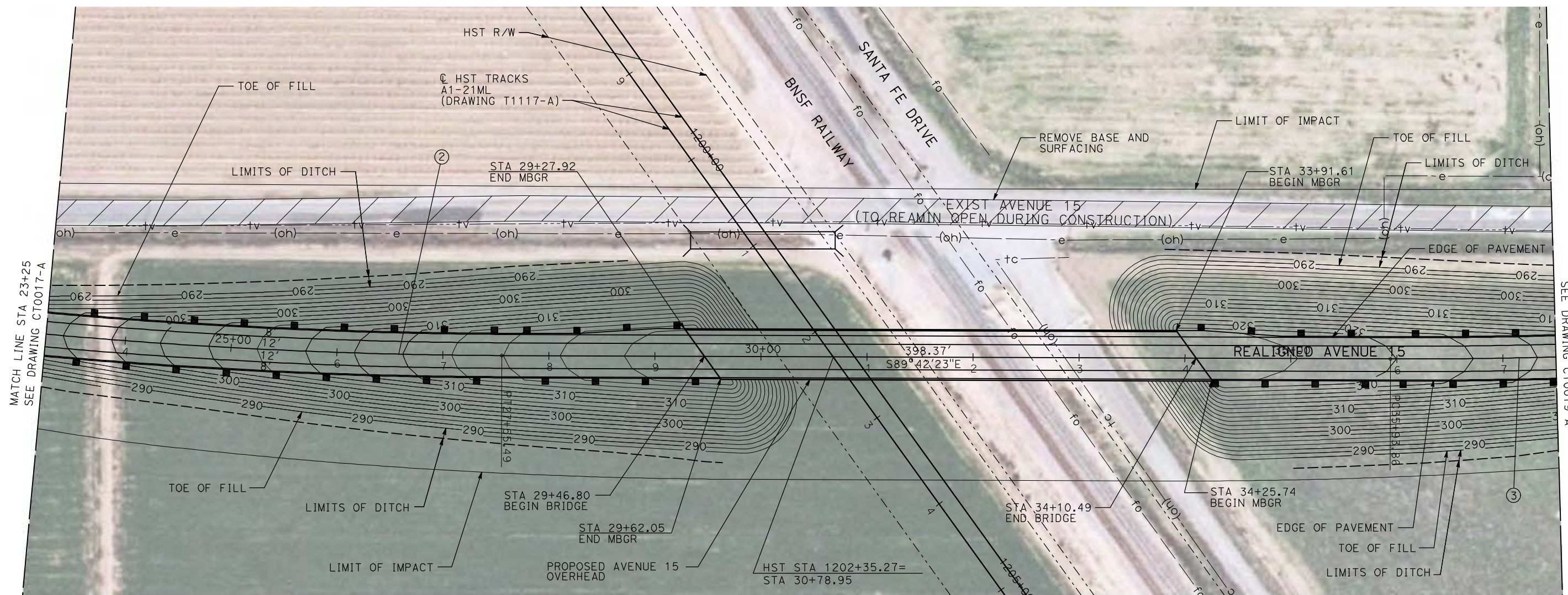
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 15
LAYOUT
SHEET 1 OF 3

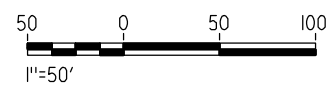
CONTRACT NO.
HST06-007
DRAWING NO.
CT0017-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:53:36 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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

RECORD SET
15% DESIGN
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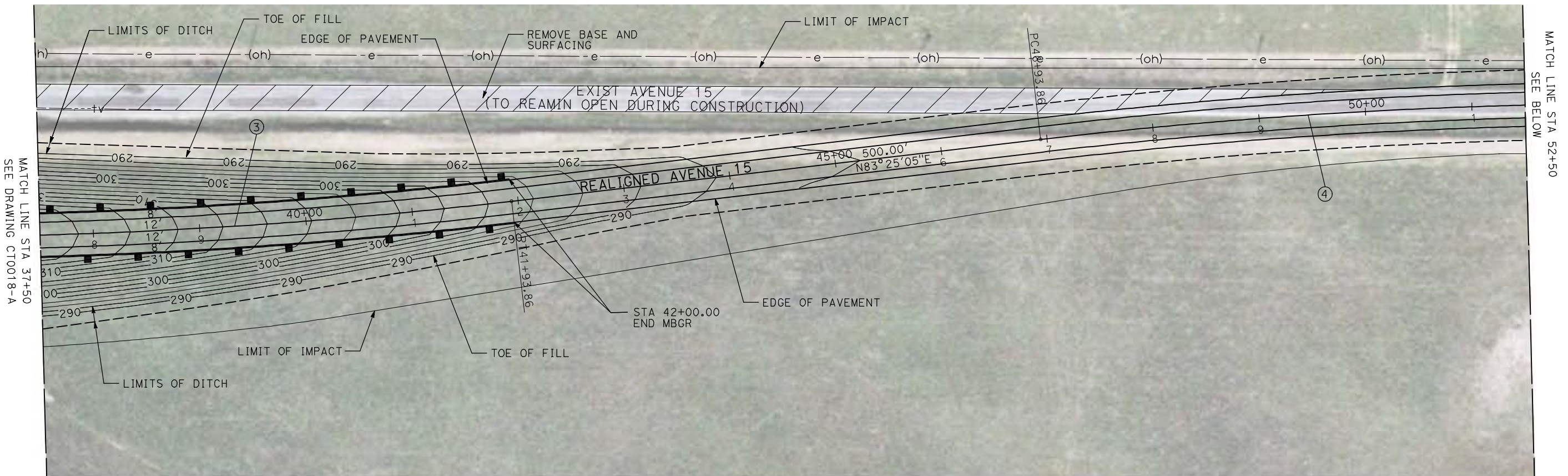


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 15
 LAYOUT
 SHEET 2 OF 3

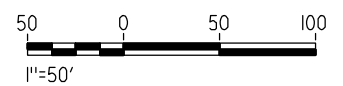
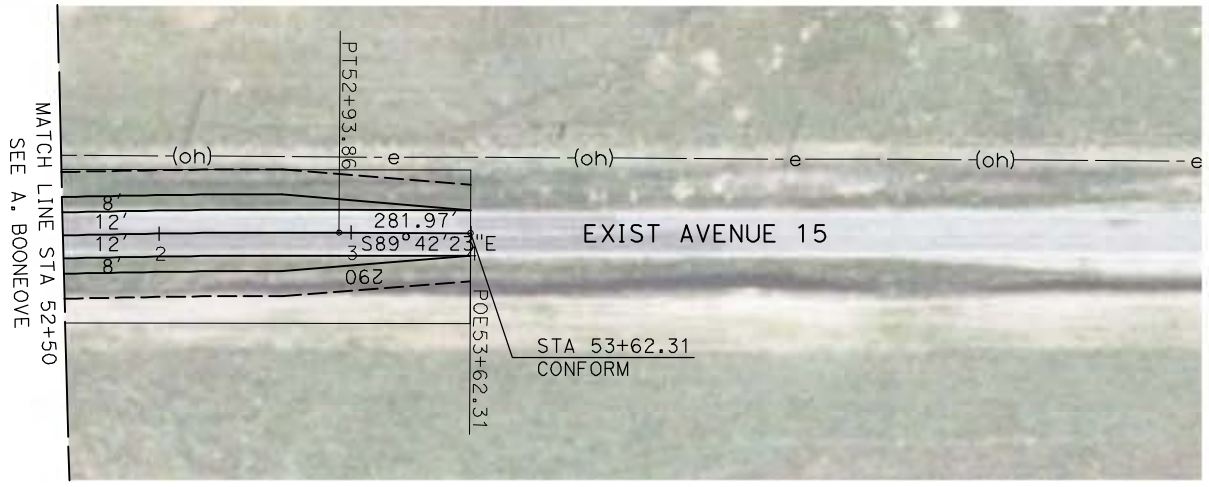
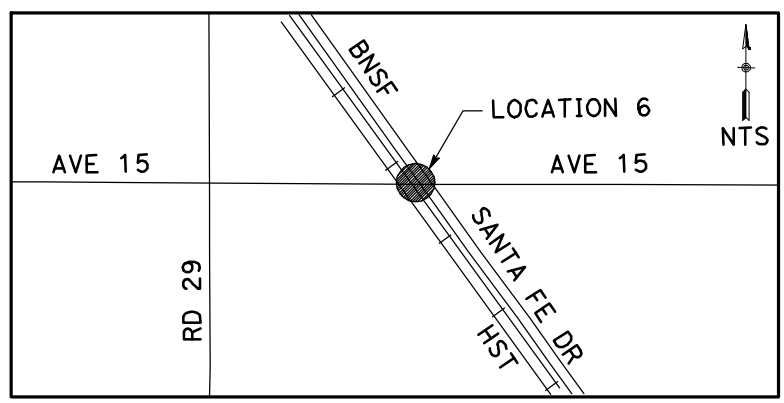
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0018-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 1:53:44 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-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
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H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
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04/29/2011

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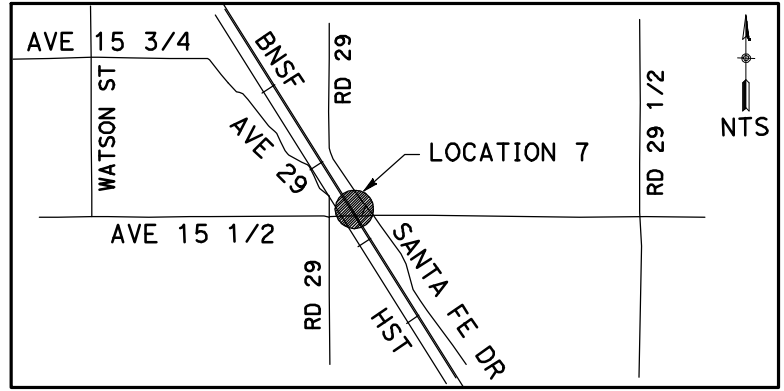
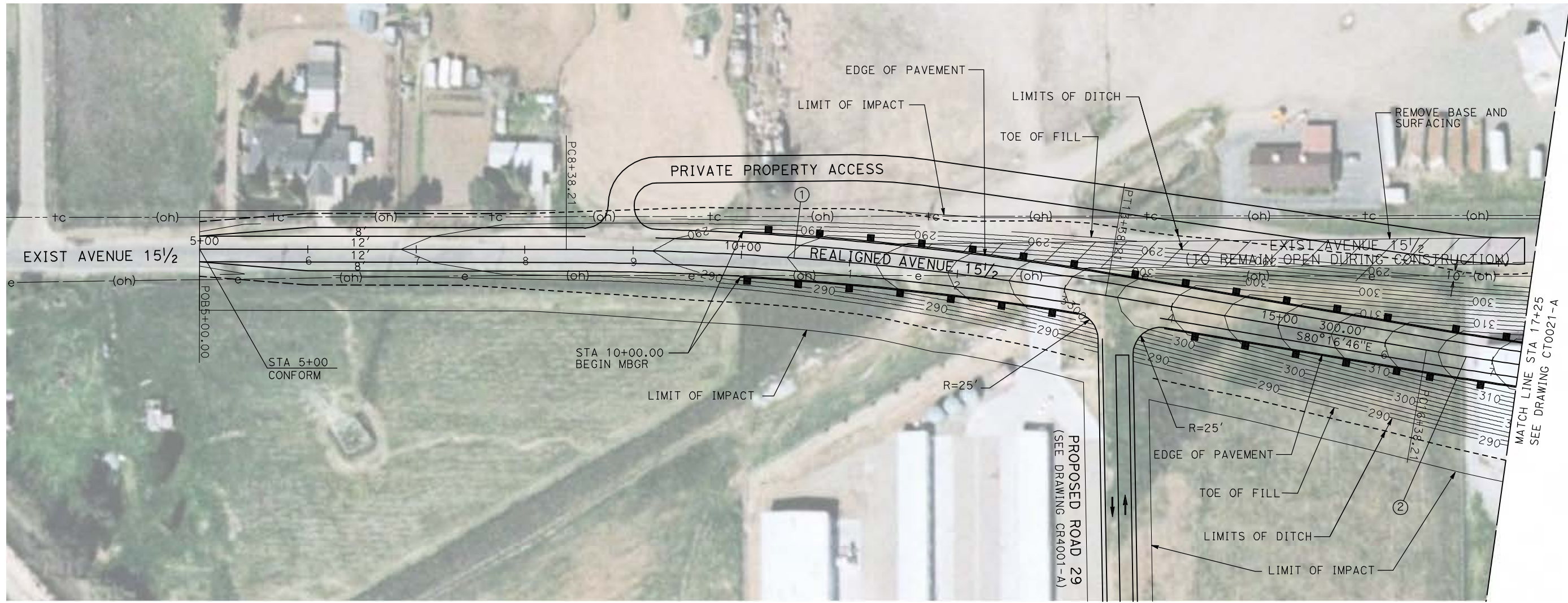
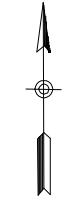
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 15
 LAYOUT
 SHEET 3 OF 3

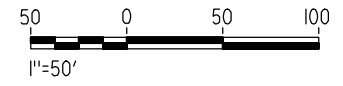
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0019-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 1:53:52 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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

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04/29/2011

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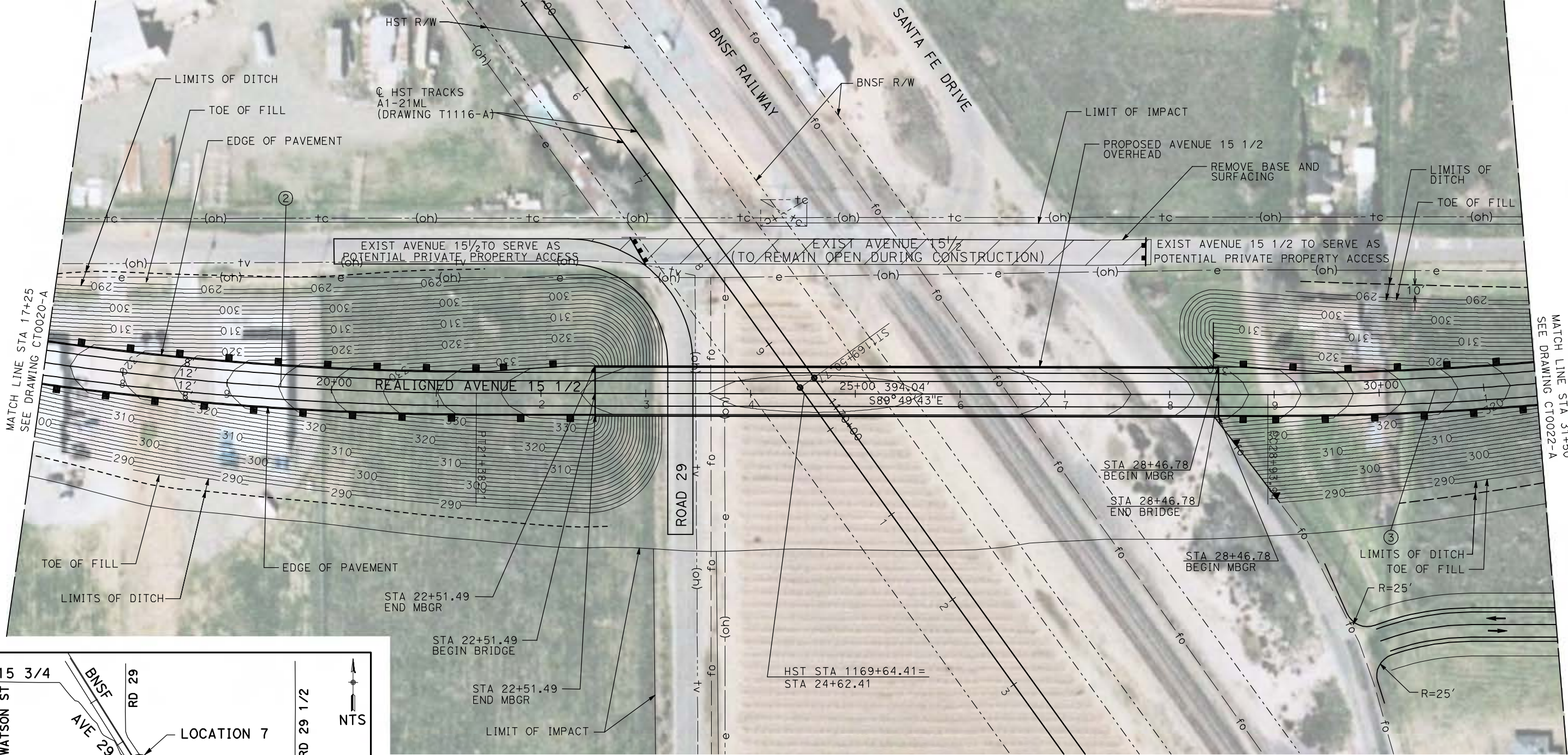


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 15 1/2
 LAYOUT
 SHEET 1 OF 3

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

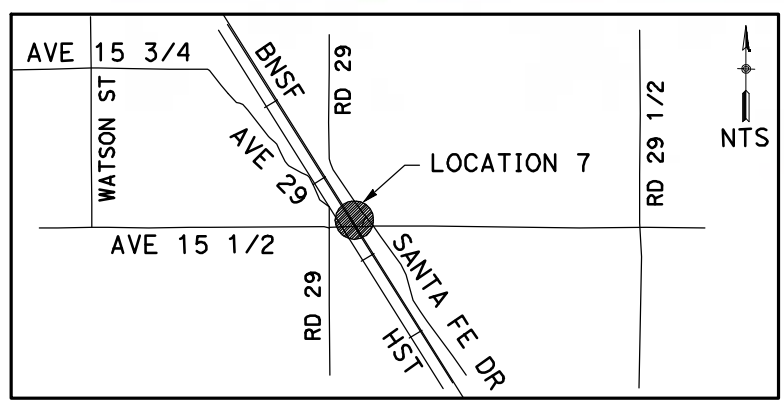


CURVE DATA					
NO.	R	Δ	T	L	V
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH

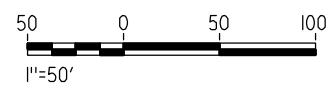


MATCH LINE STA 17+25
SEE DRAWING CT0020-A

MATCH LINE STA 31+50
SEE DRAWING CT0022-A



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



4/29/2011 1:54:00 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0021-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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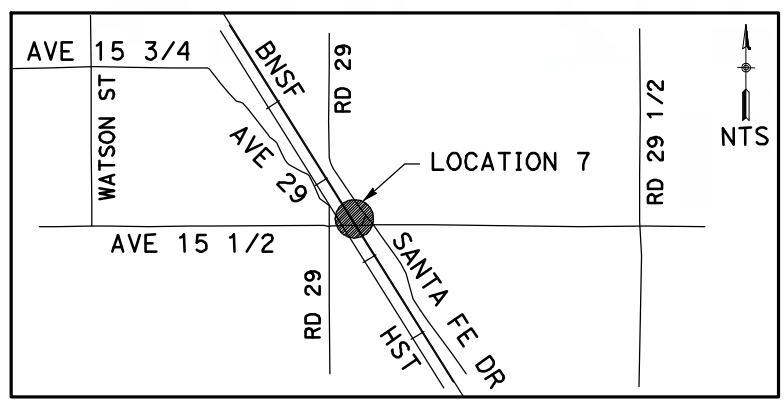
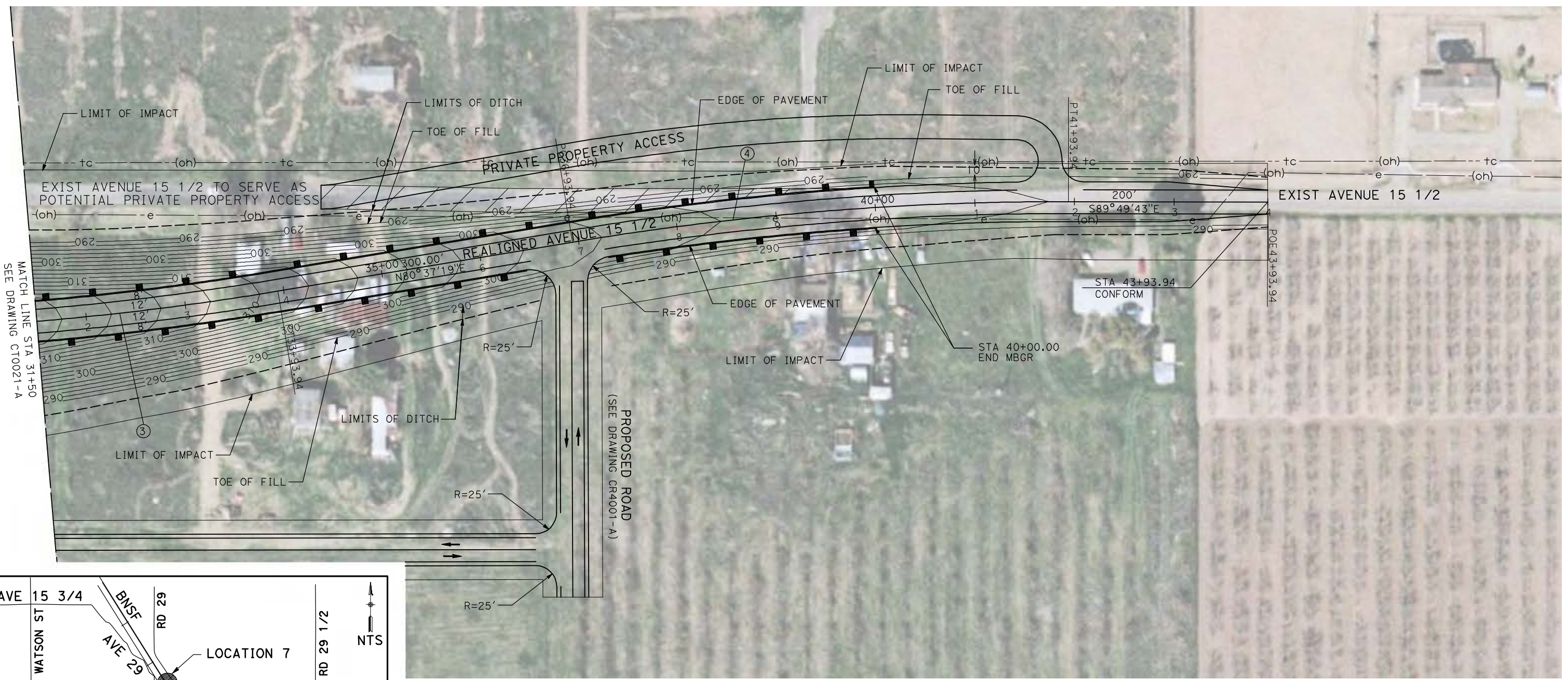
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 15 1/2
LAYOUT
SHEET 2 OF 3

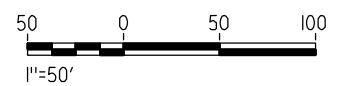
CONTRACT NO.
HST06-007
DRAWING NO.
CT0021-A
SCALE
AS SHOWN
SHEET NO.
OF

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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 CT1018-A THROUGH CT1020-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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IN CHARGE
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DATE
04/29/2011

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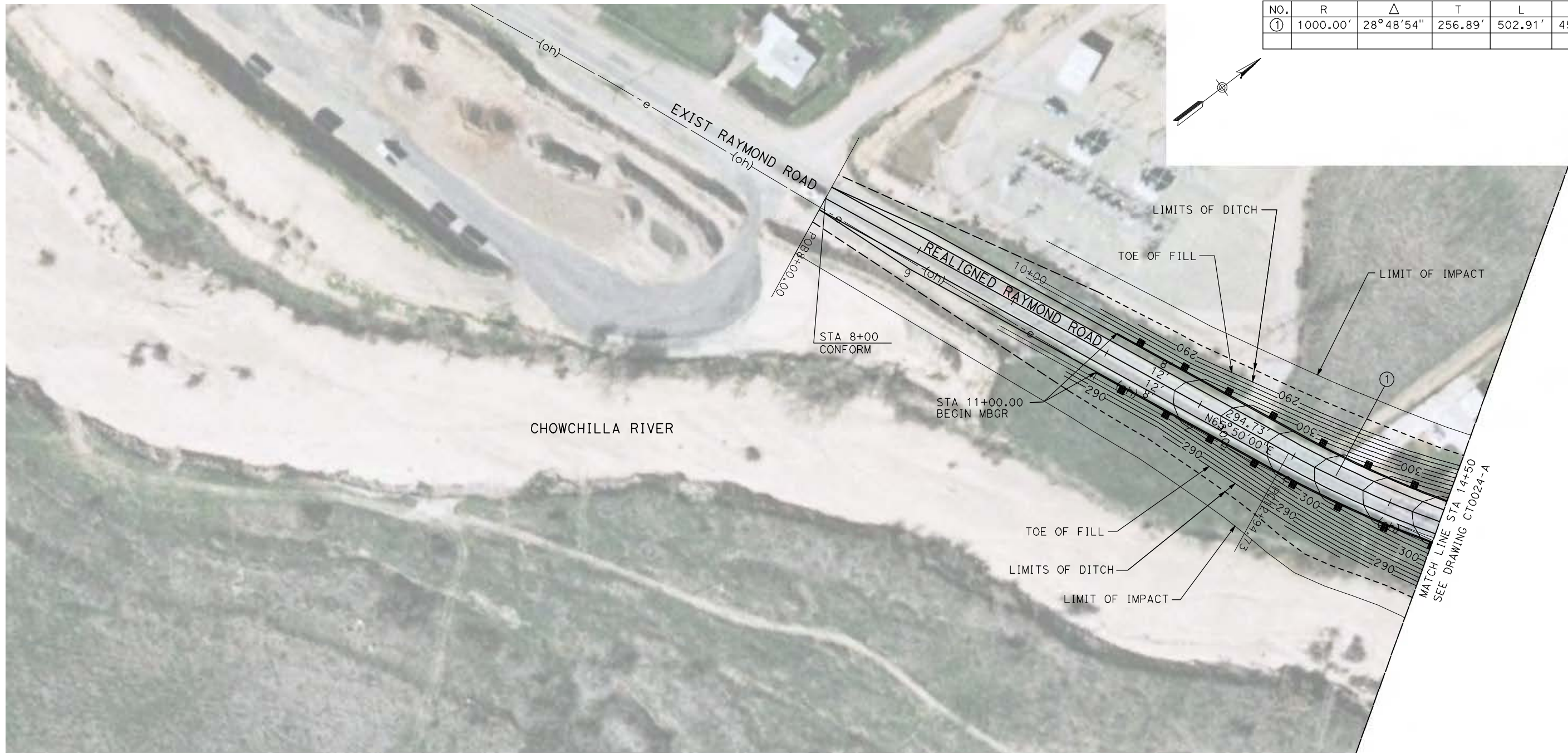


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

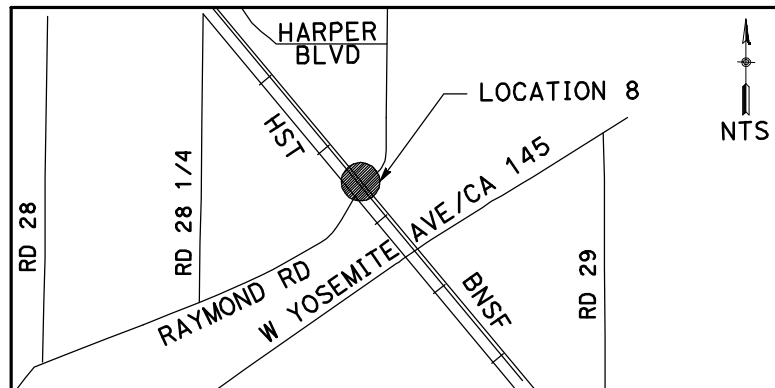
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 15 1/2
LAYOUT
SHEET 3 OF 3

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

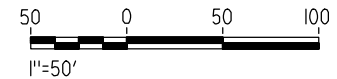
4/29/2011 1:54:17 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0023-A.dgn



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
SUBMITTAL

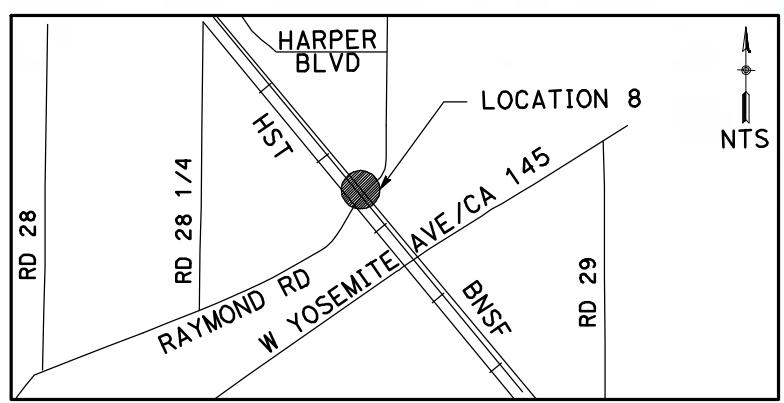
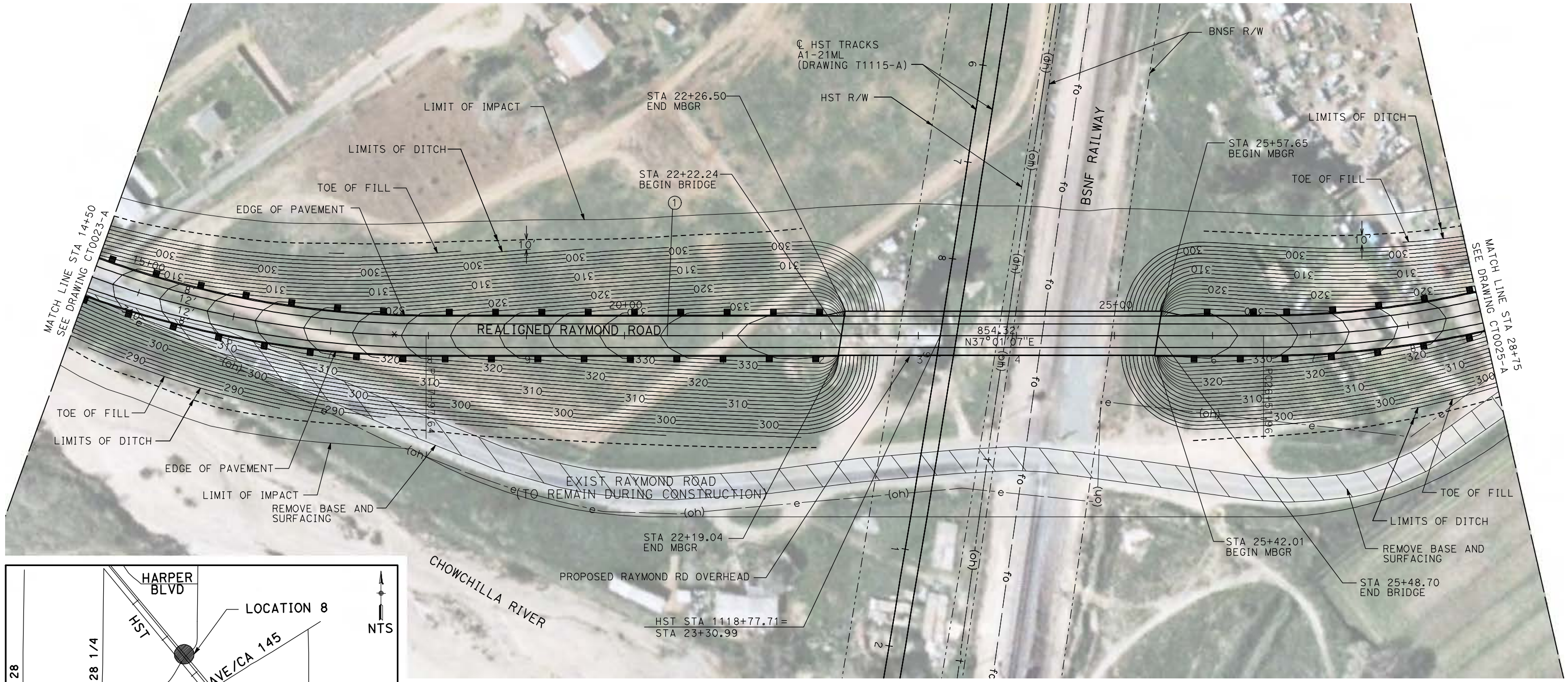
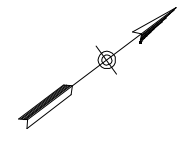
NOT FOR
CONSTRUCTION



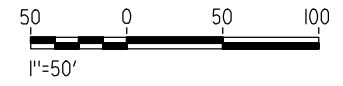
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - RAYMOND ROAD
LAYOUT
SHEET 1 OF 3

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

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.



4/29/2011 1:54:25 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0024-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

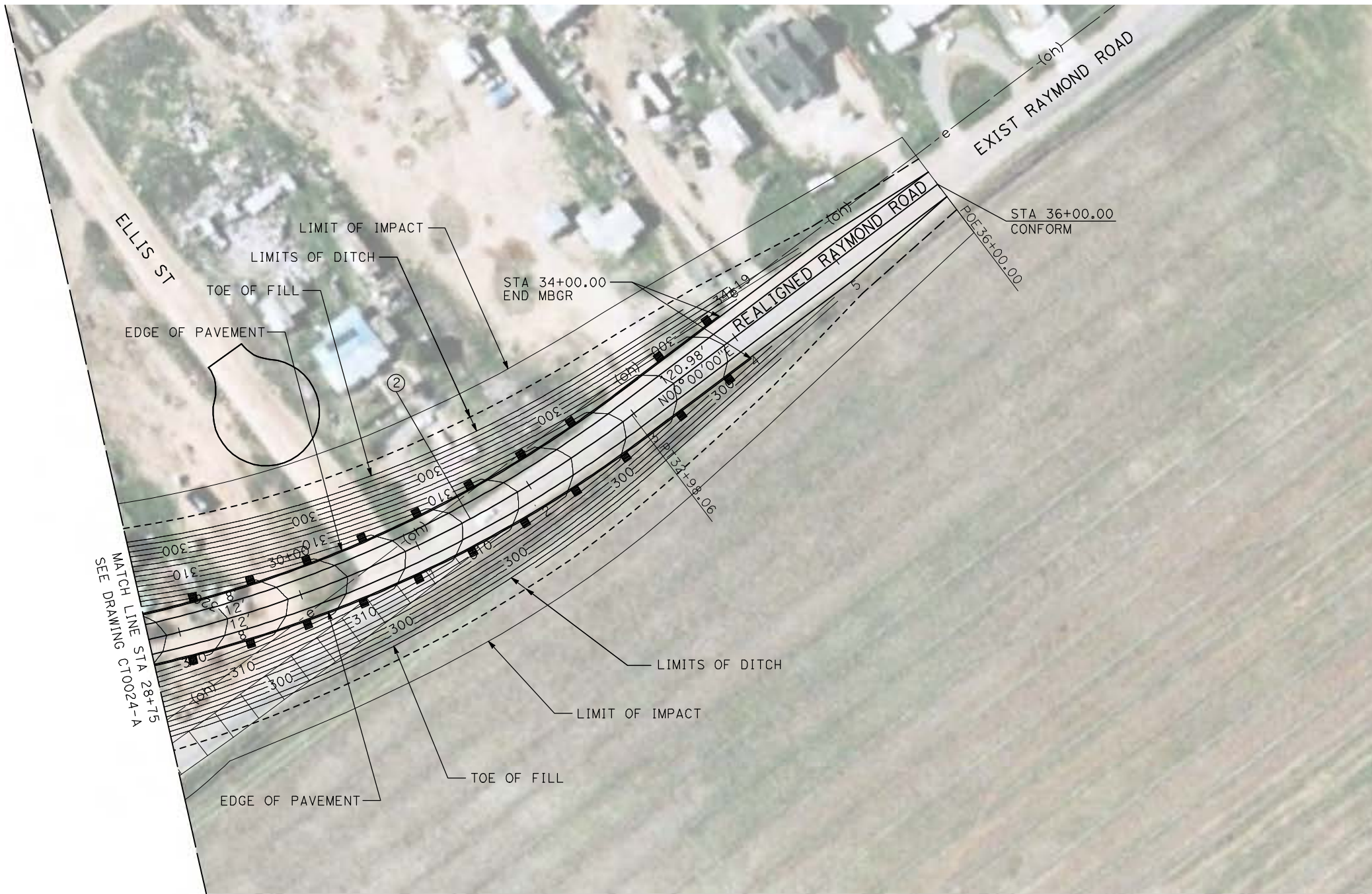
NOT FOR
CONSTRUCTION



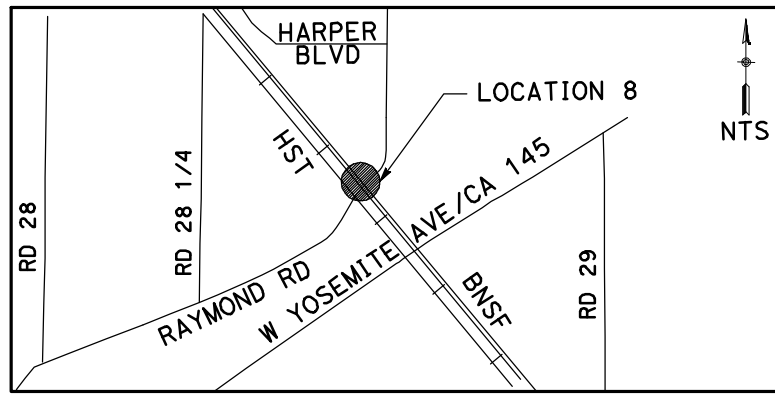
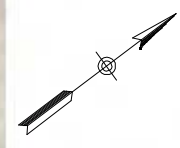
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - RAYMOND ROAD
 LAYOUT
 SHEET 2 OF 3

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

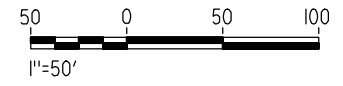
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CURVE DATA					
NO.	R	Δ	T	L	V
②	1000.00'	37°01'07"	334.77'	646.09'	45 MPH



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
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

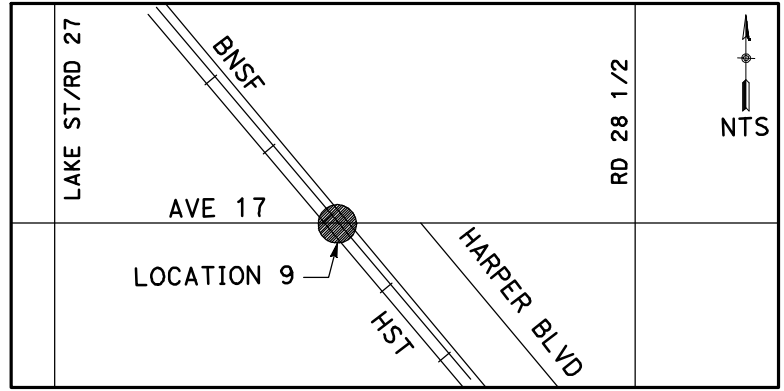
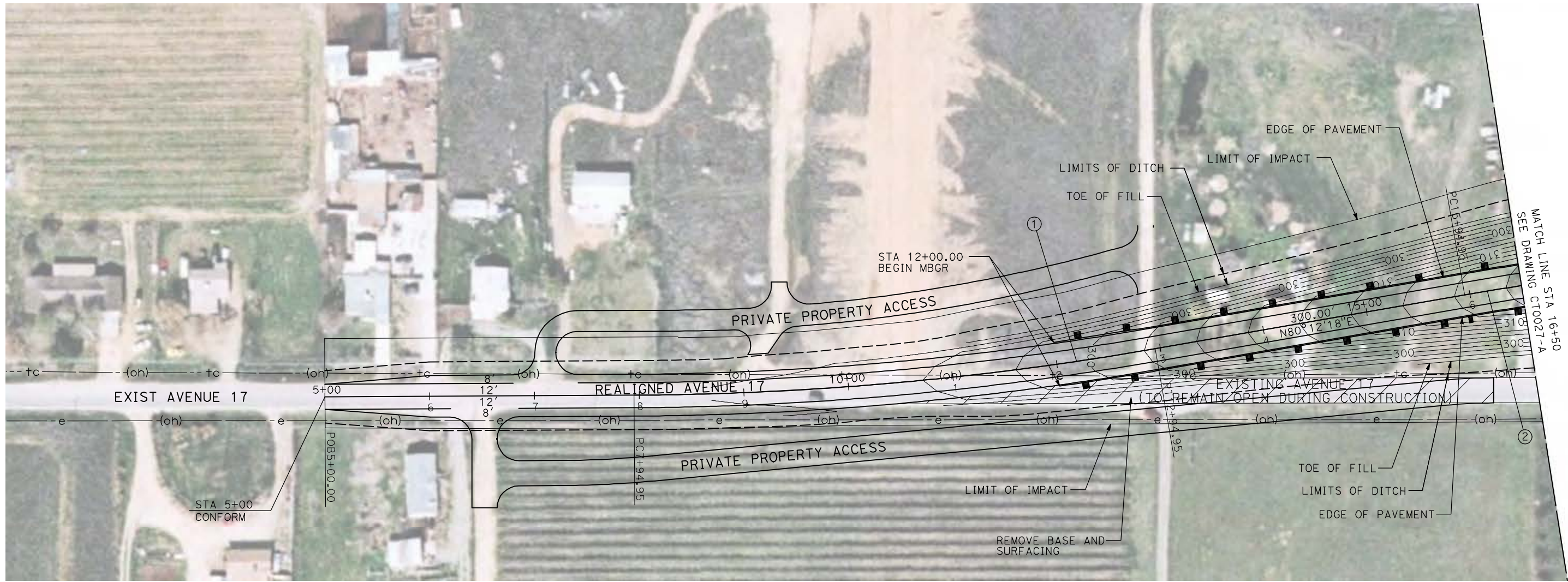
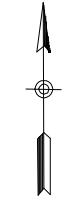


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - RAYMOND ROAD
LAYOUT
SHEET 3 OF 3

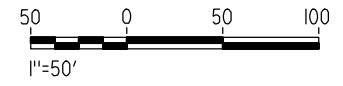
CONTRACT NO.
HST06-007
DRAWING NO.
CT0025-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:54:41 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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

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

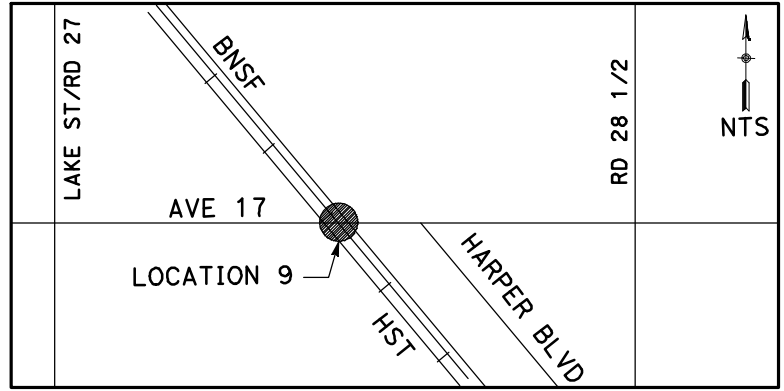
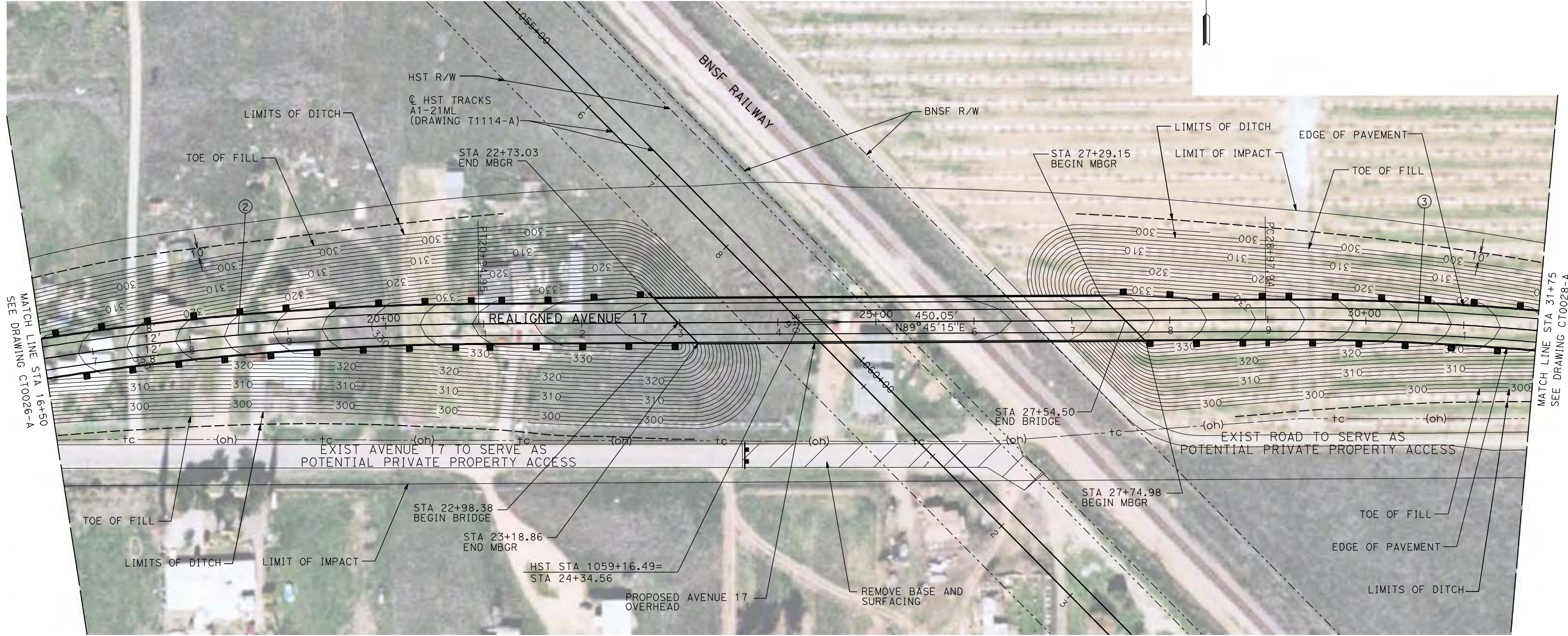


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

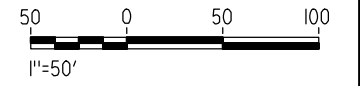
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 17
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0026-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 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
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



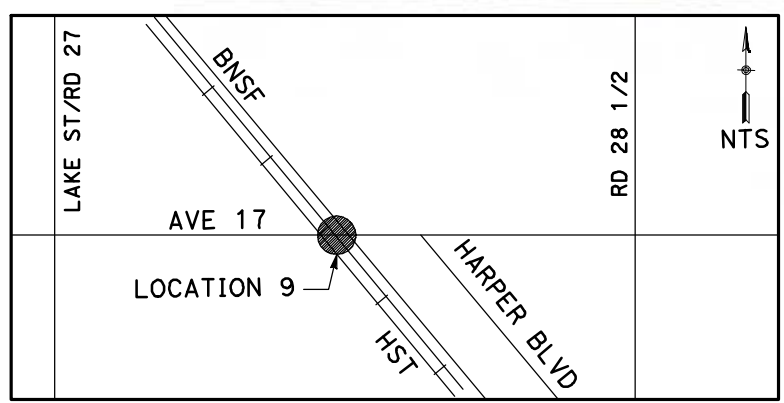
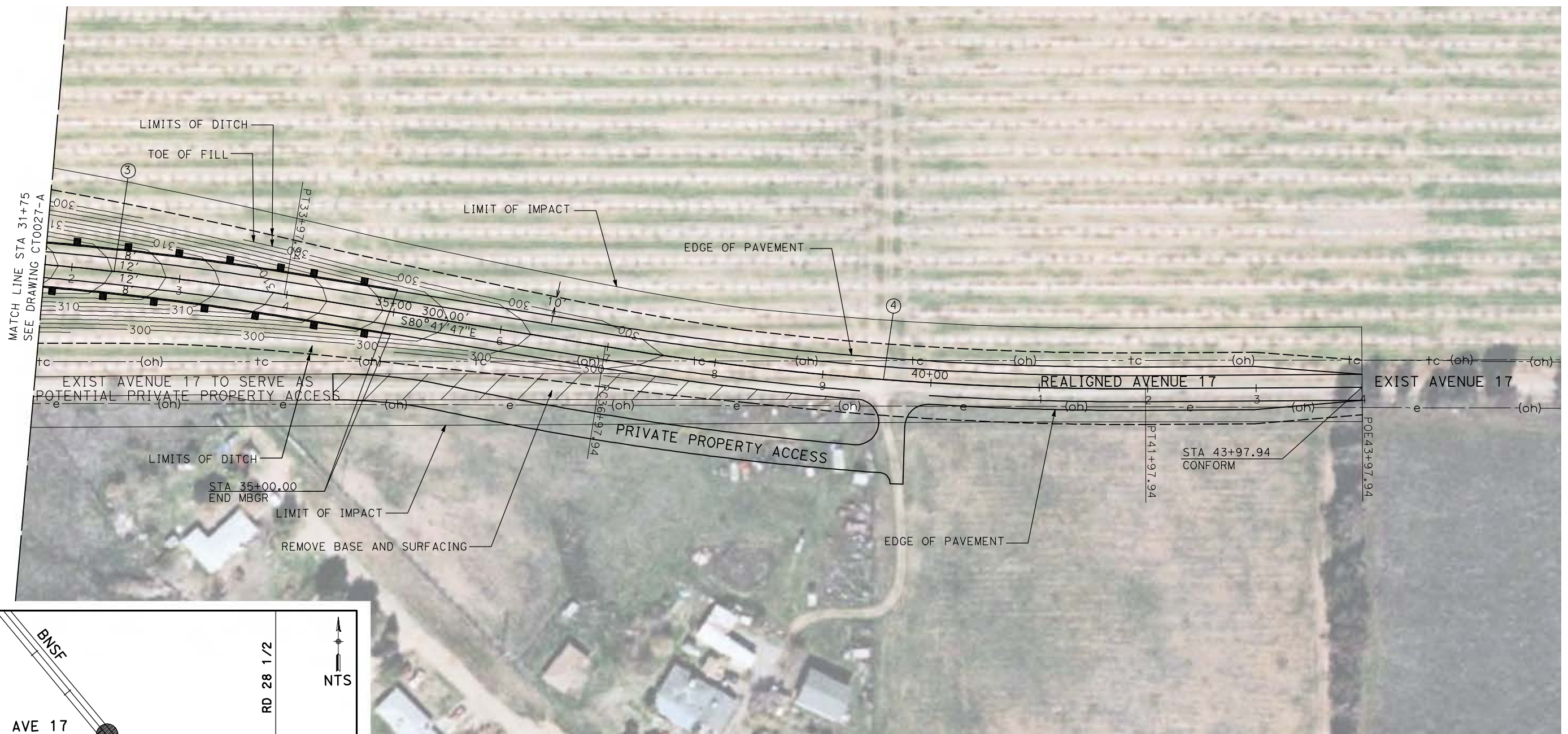
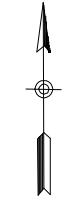
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 17
 LAYOUT
 SHEET 2 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0027-A
 SCALE
AS SHOWN
 SHEET NO.
OF

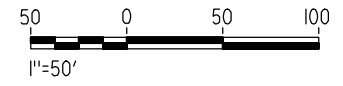
4/29/2011 1:54:49 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0027-A.dgn
 GibsonR1

4/29/2011 1:54:58 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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
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CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
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04/29/2011

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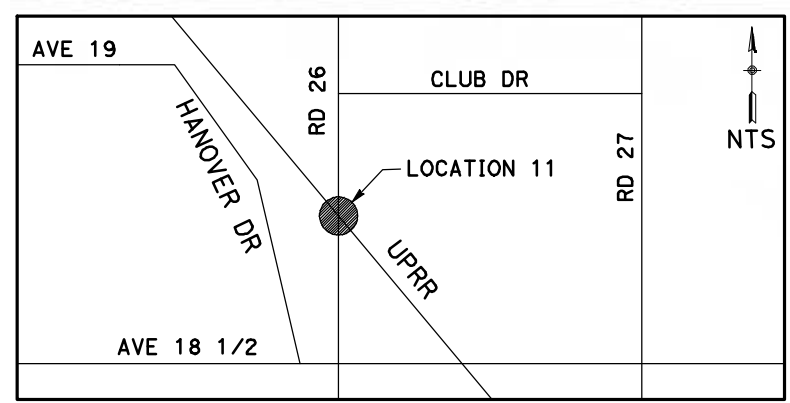
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 17
LAYOUT
SHEET 3 OF 3

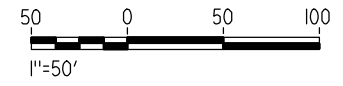
CONTRACT NO.
HST06-007
DRAWING NO.
CT0028-A
SCALE
AS SHOWN
SHEET NO.
OF

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

RECORD SET
15% DESIGN
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CONSTRUCTION

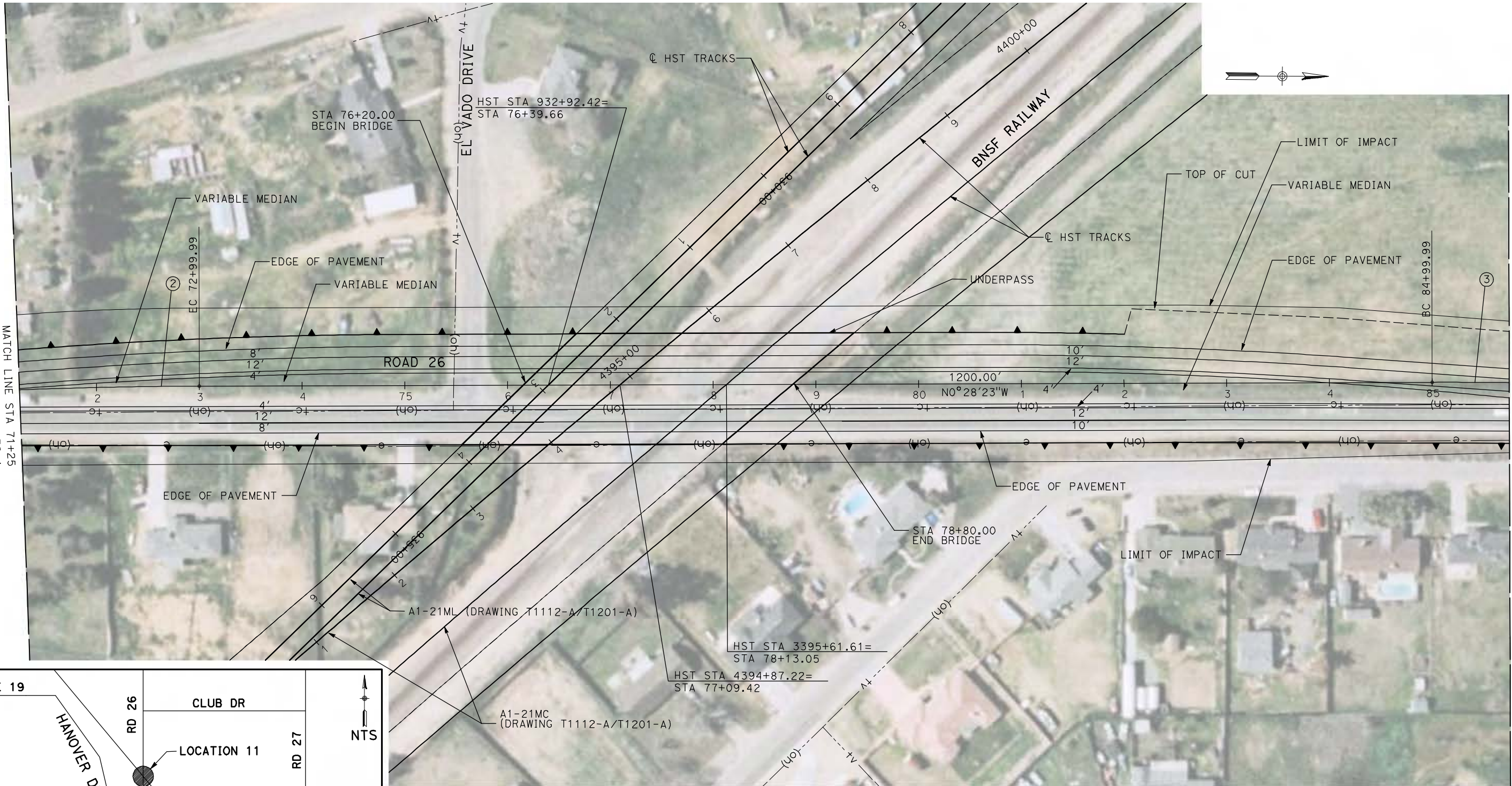


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - ROAD 26
LAYOUT
SHEET 1 OF 3

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

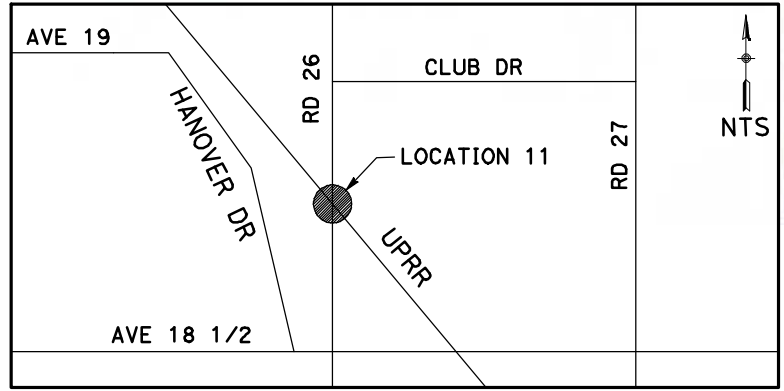
CURVE DATA

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

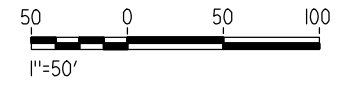


MATCH LINE STA 71+25
SEE DRAWING CT0032-A

MATCH LINE STA 85+75
SEE DRAWING CT0034-A



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

RECORD SET
15% DESIGN
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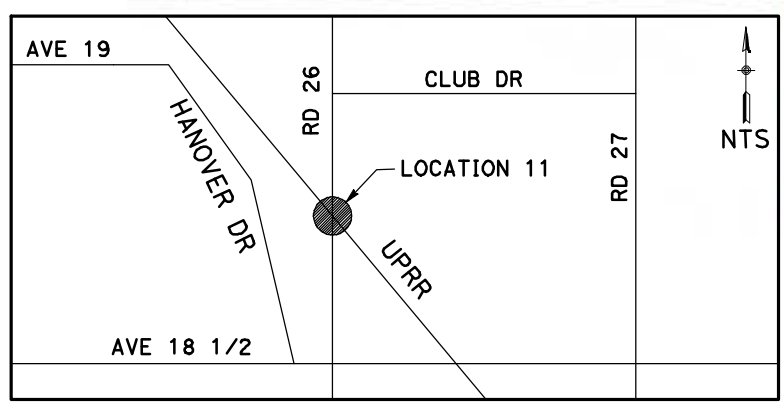
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - ROAD 26
LAYOUT
SHEET 2 OF 3

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

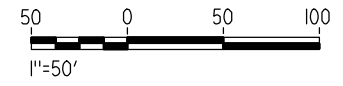
4/29/2011 1:55:12 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0033-A.dgn

4/29/2011 1:55:20 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-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
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

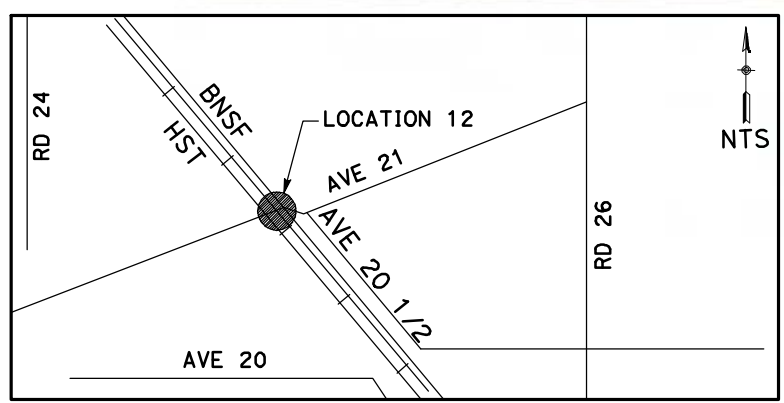
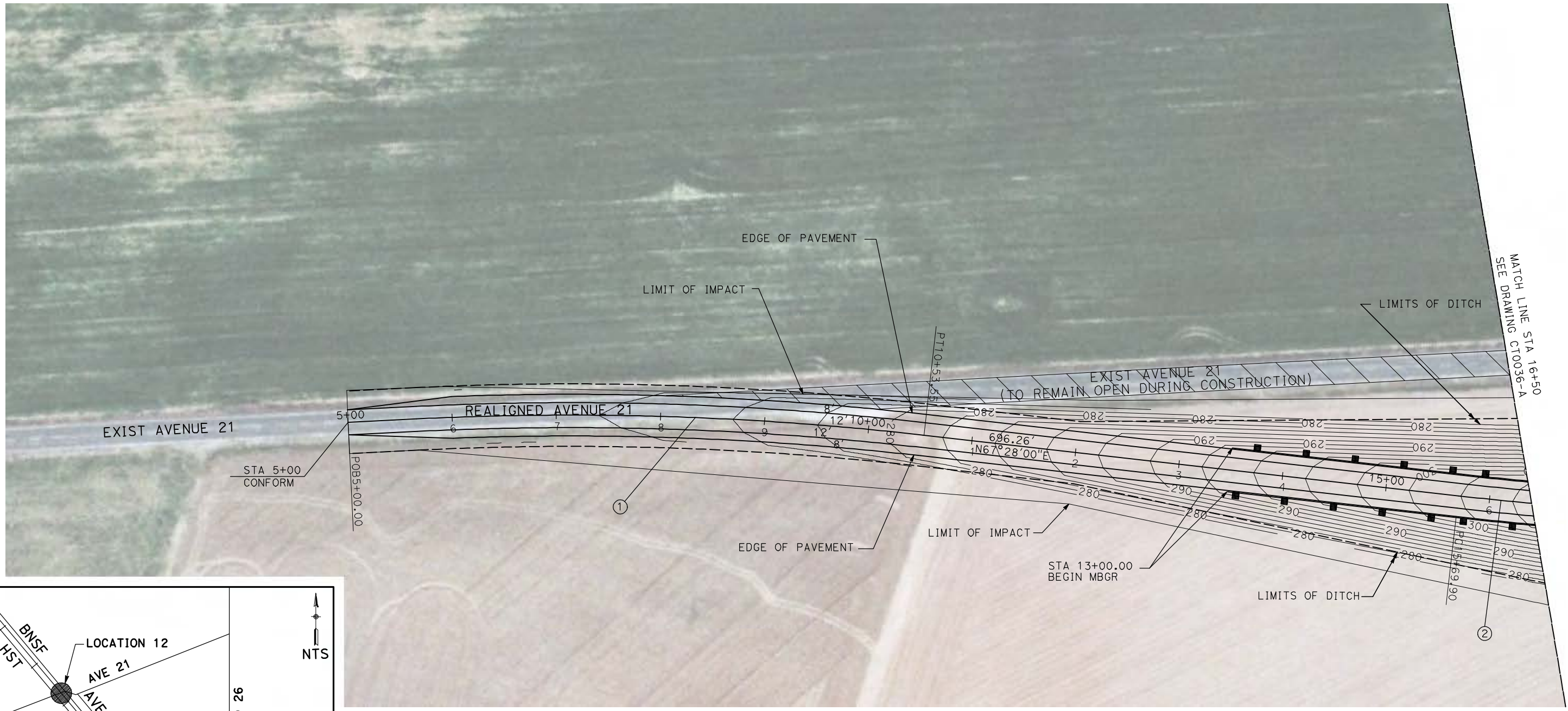
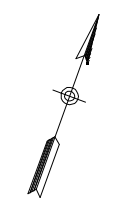


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - ROAD 26
LAYOUT
SHEET 3 OF 3

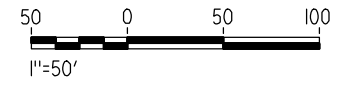
CONTRACT NO.
HSR06-007
DRAWING NO.
CT0034-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:56:27 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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
 DRAWN BY
H. PHAN
 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

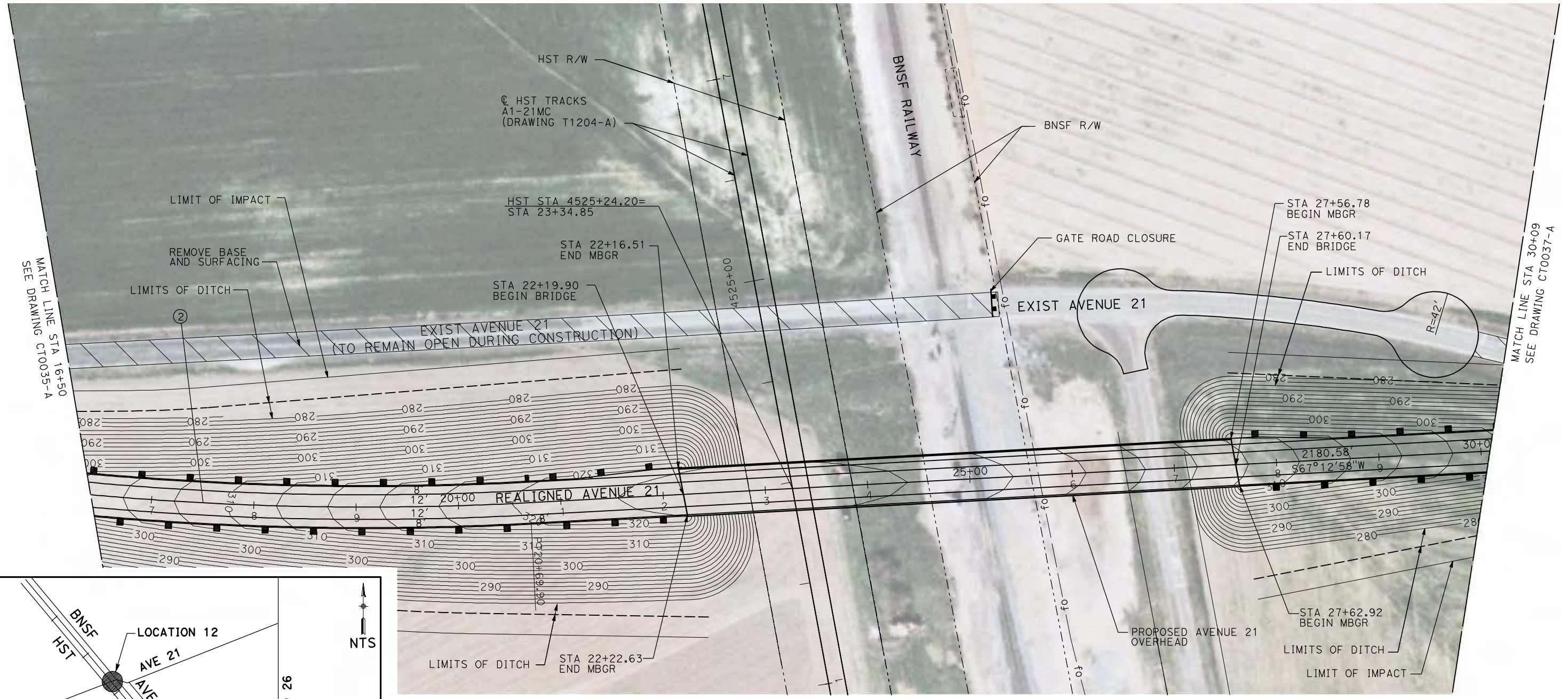
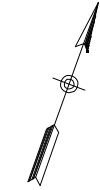


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 21
 LAYOUT
 SHEET 1 OF 3

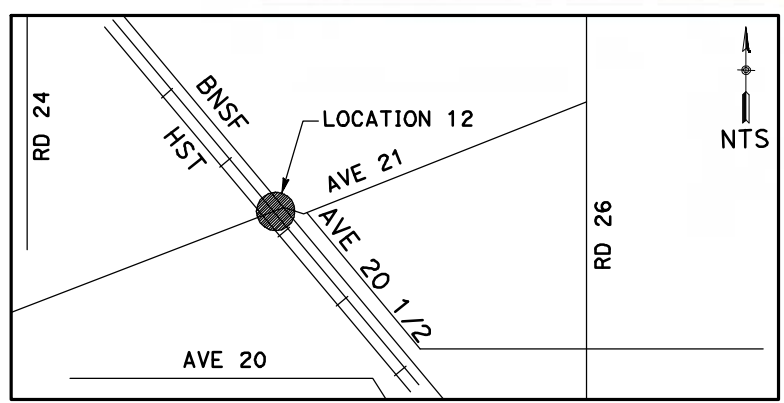
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0035-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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

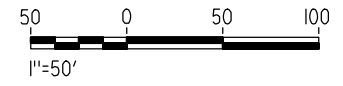


MATCH LINE STA 16+50
SEE DRAWING CT0035-A

MATCH LINE STA 30+09
SEE DRAWING CT0037-A



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1033-A THROUGH CT1035-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 21 WYE
GRADE SEPARATION - AVENUE 21
LAYOUT
SHEET 2 OF 3

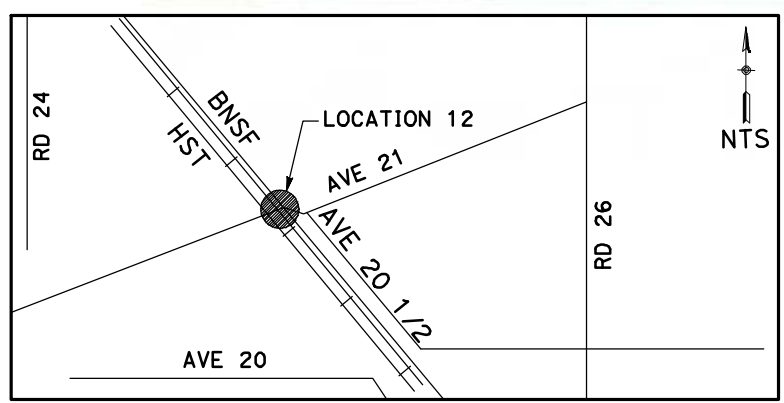
CONTRACT NO.
HST06-007
DRAWING NO.
CT0036-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:55:35 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0036-A.dgn

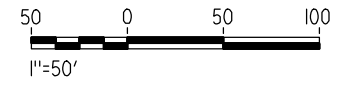
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CURVE DATA					
NO.	R	Δ	T	L	V



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

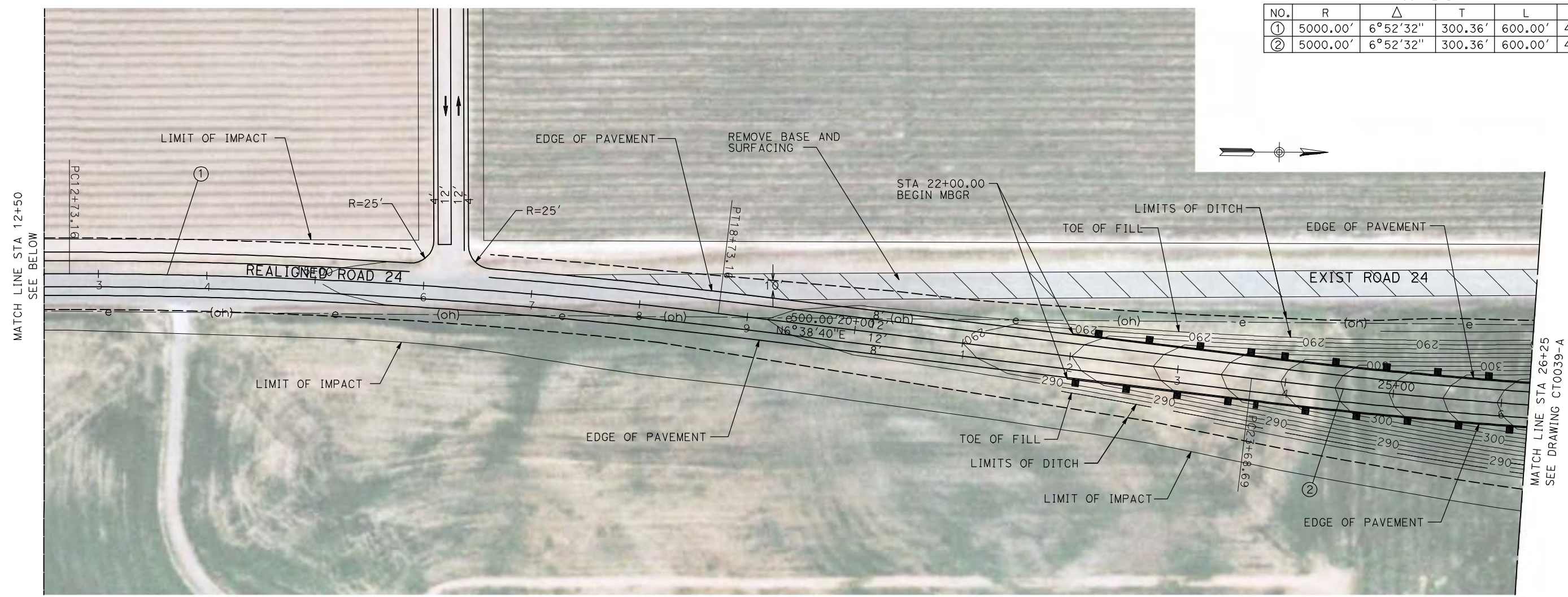


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 21
LAYOUT
SHEET 3 OF 3

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

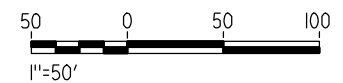
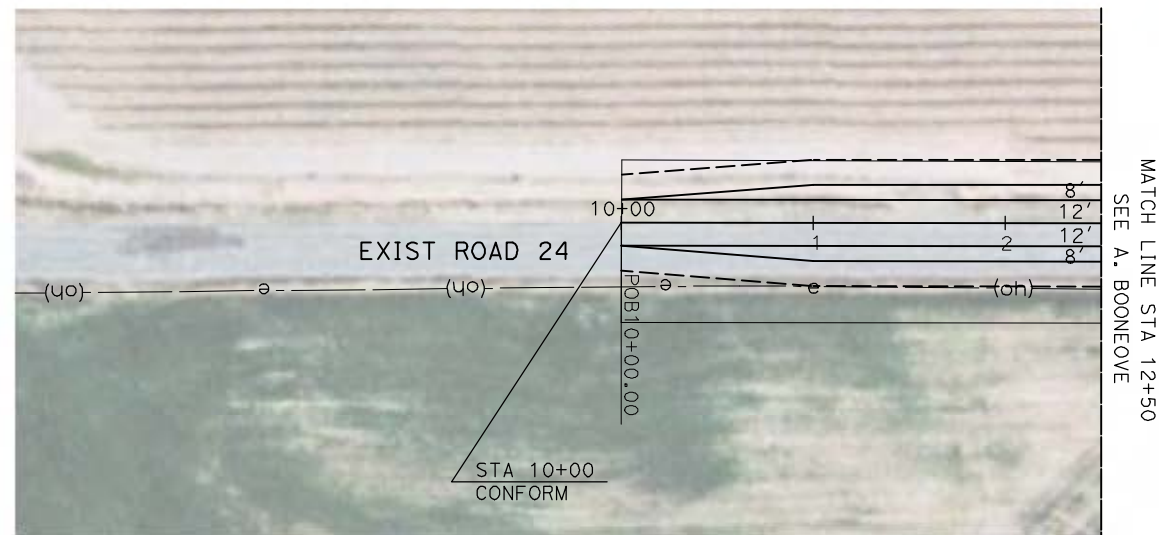
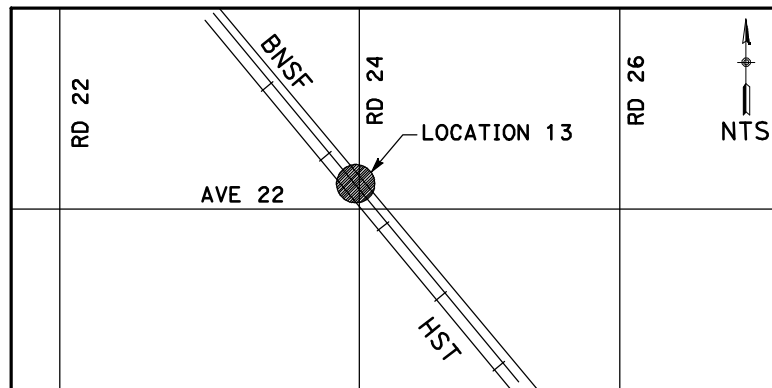
4/29/2011 1:55:51 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0038-A.dgn

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

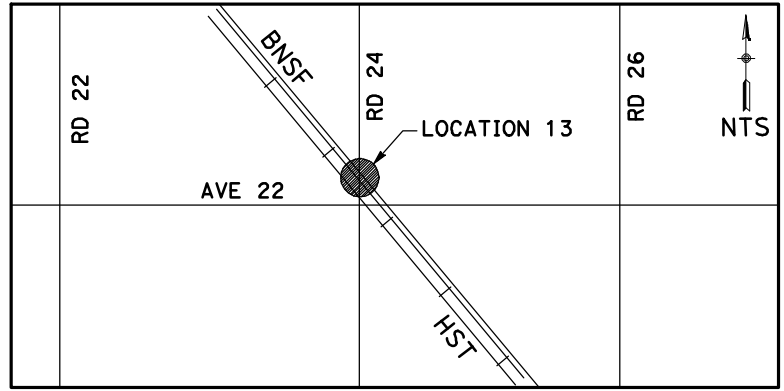
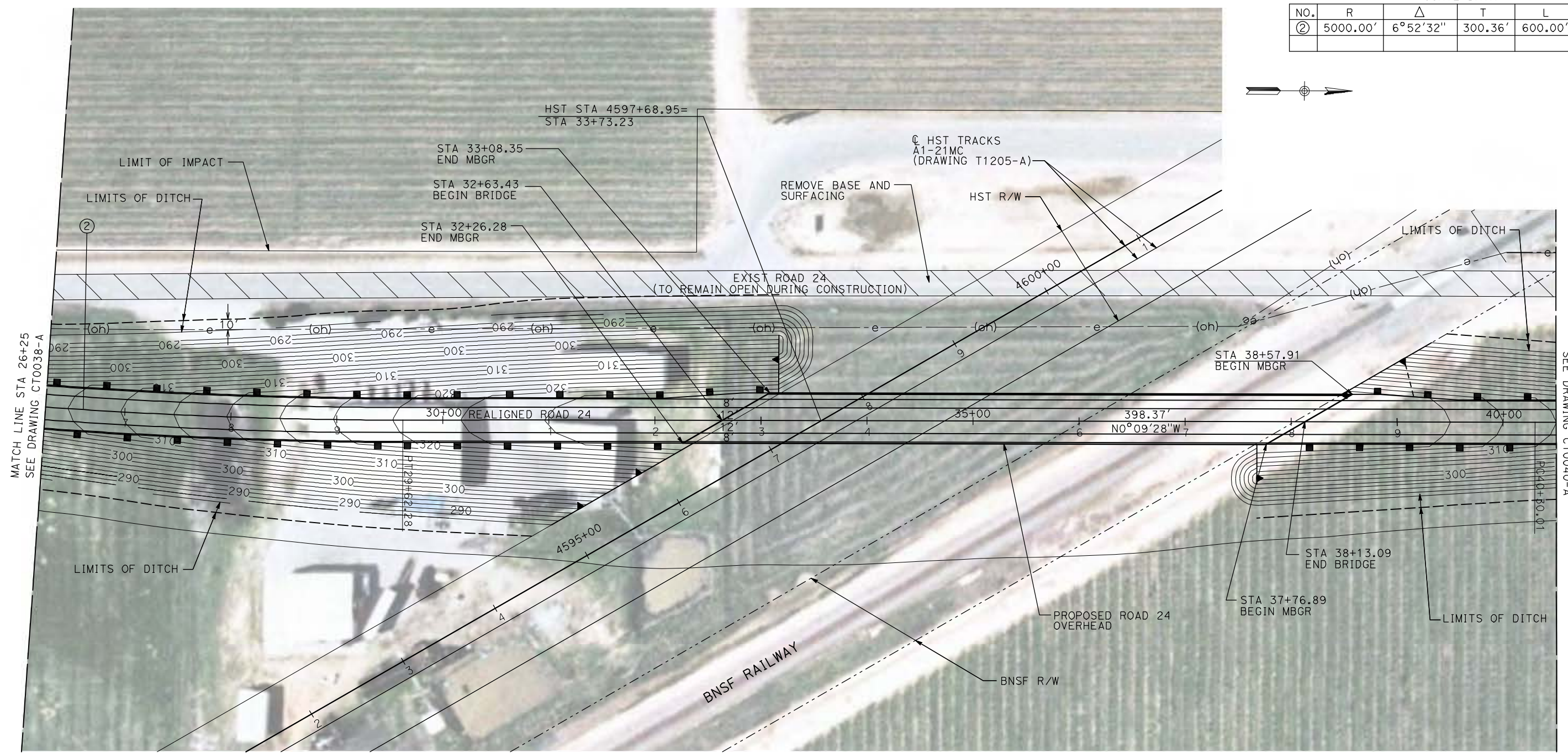


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 1 OF 3

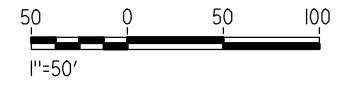
CONTRACT NO.
HST06-007
DRAWING NO.
CT0038-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:55:59 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-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

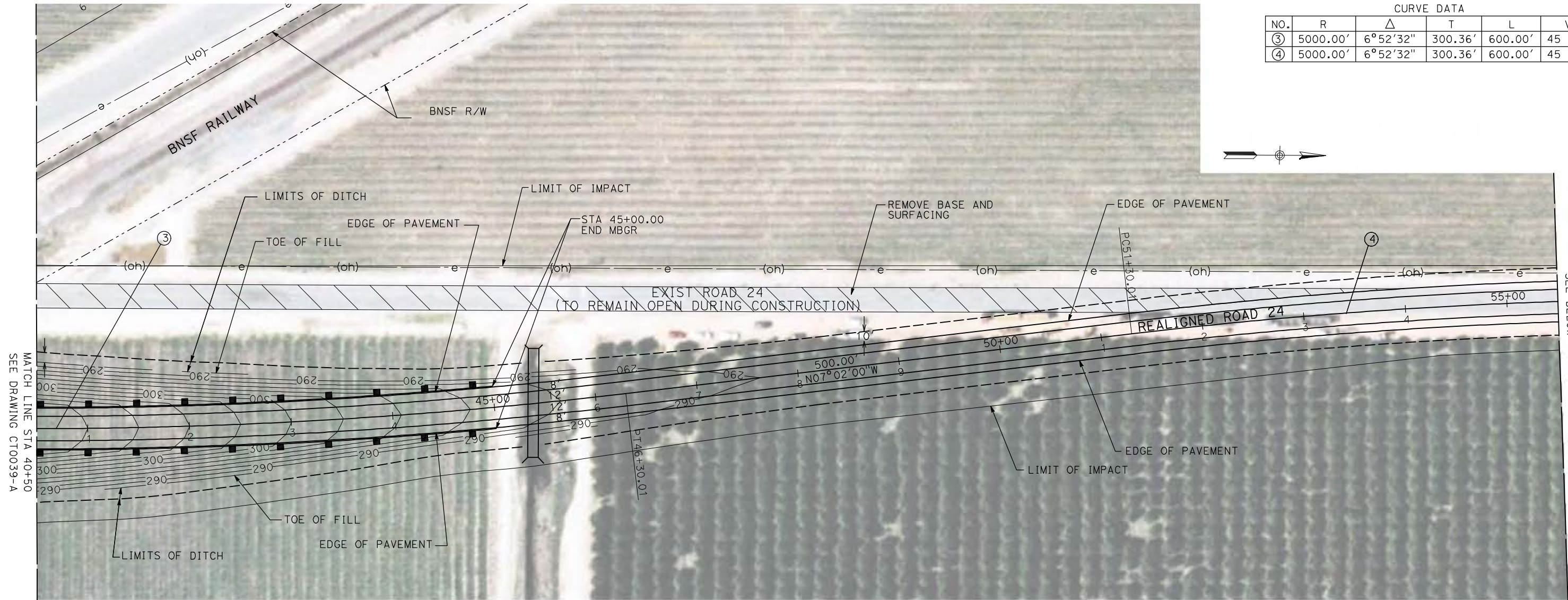


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 2 OF 3

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

4/29/2011 1:56:07 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0040-A.dgn

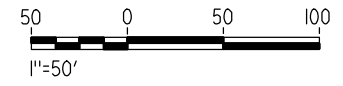
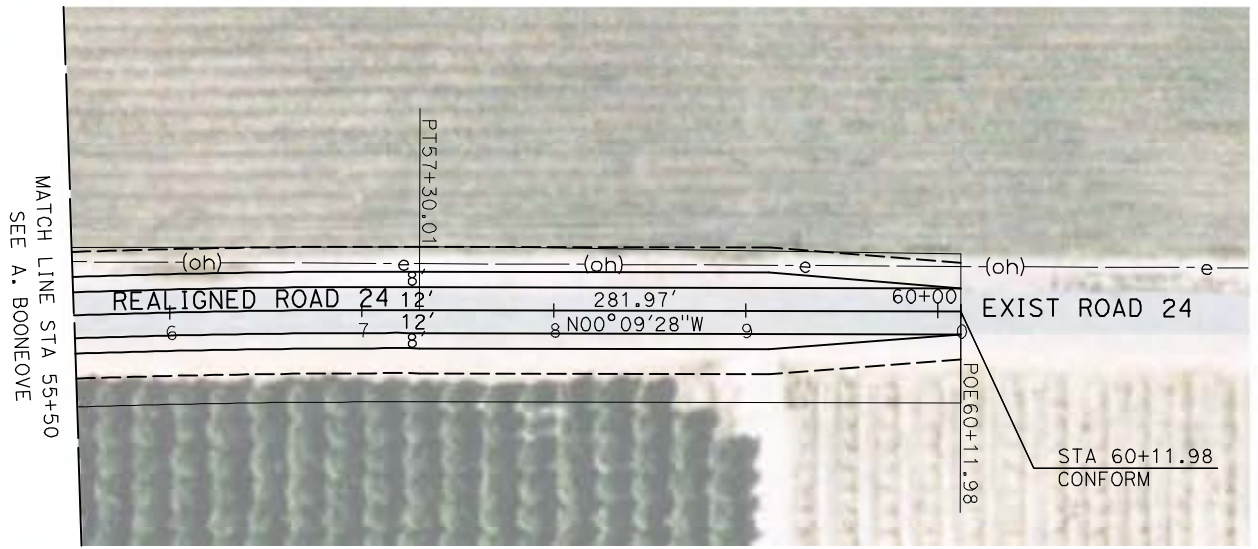
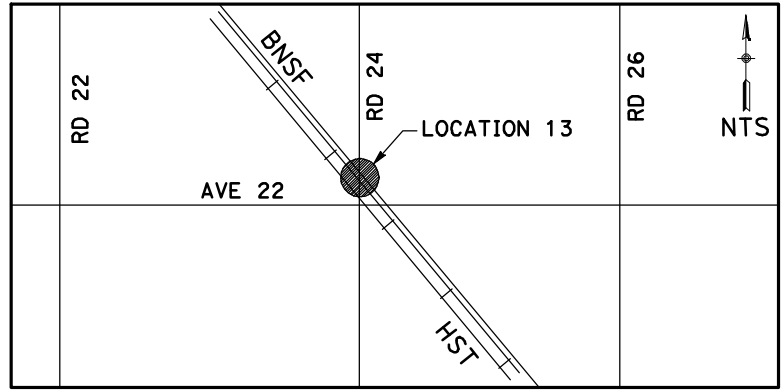
CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



MATCH LINE STA 40+50
SEE DRAWING CT0039-A

MATCH LINE STA 55+50
SEE BELOW

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**

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CONSTRUCTION**



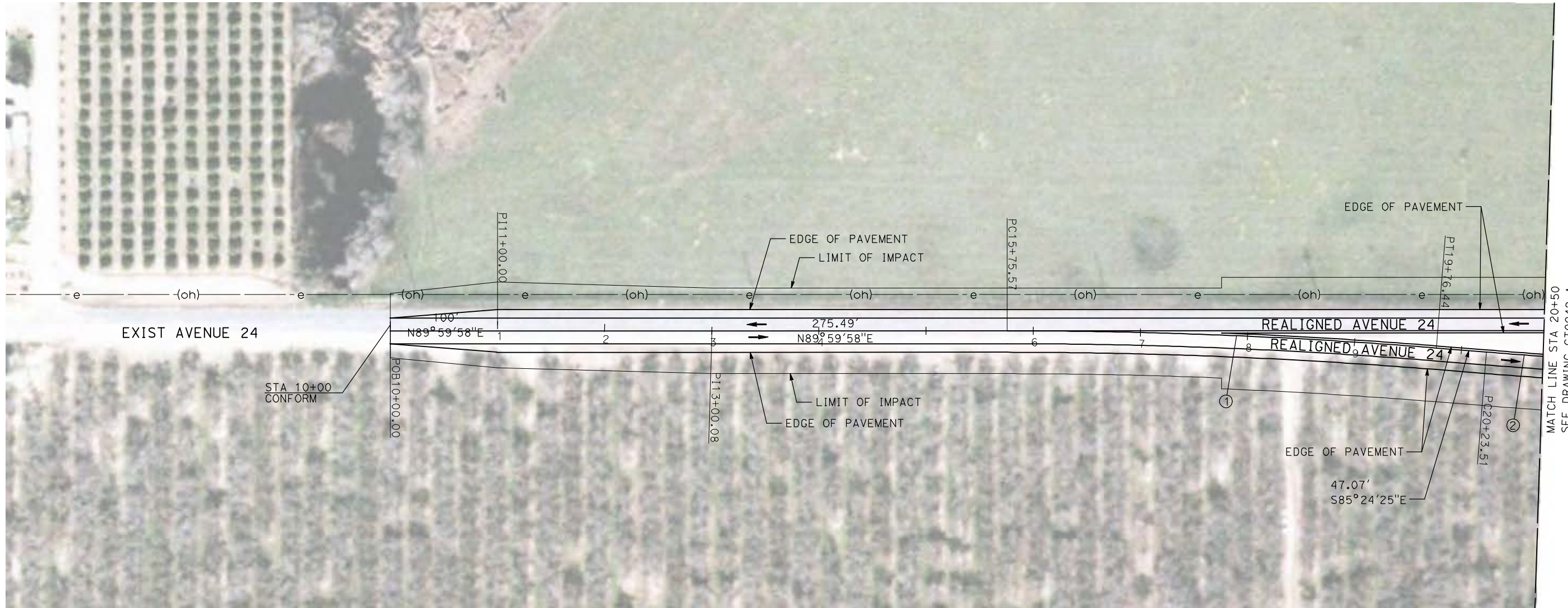
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

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

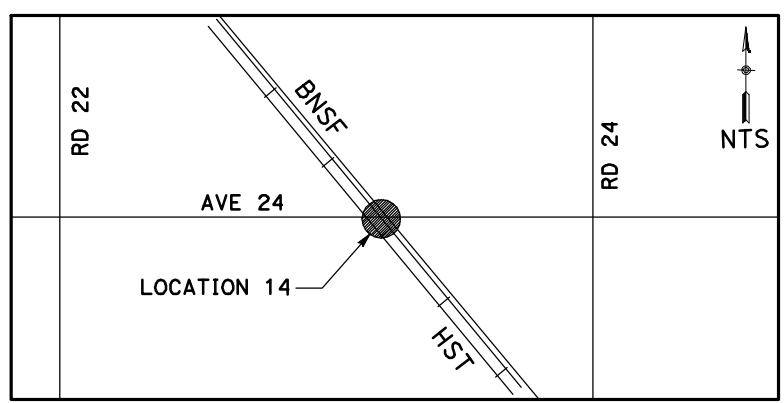
CONTRACT NO.
HST06-007
DRAWING NO.
CT0040-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:56:14 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0041-A.dgn

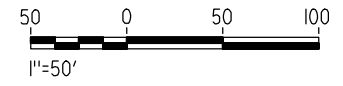
CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00'	4°35'37"	200.54'	400.87'	45 MPH
②	5000.00'	4°35'37"	200.54'	400.87'	45 MPH



MATCH LINE STA 20+50
SEE DRAWING CT0042-A



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1039-A THROUGH CT1041-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
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NOT FOR
CONSTRUCTION

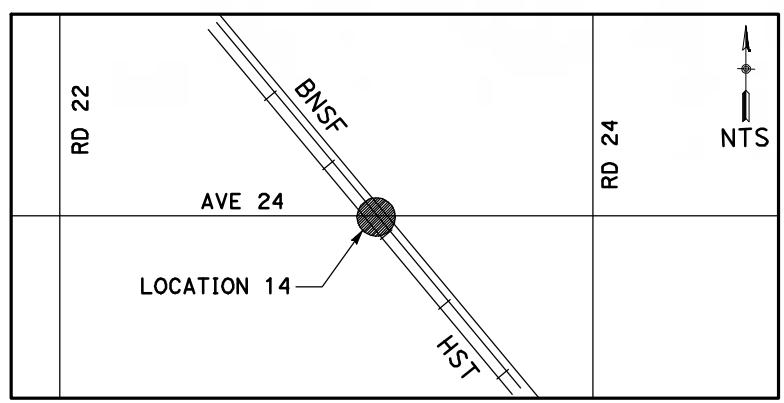
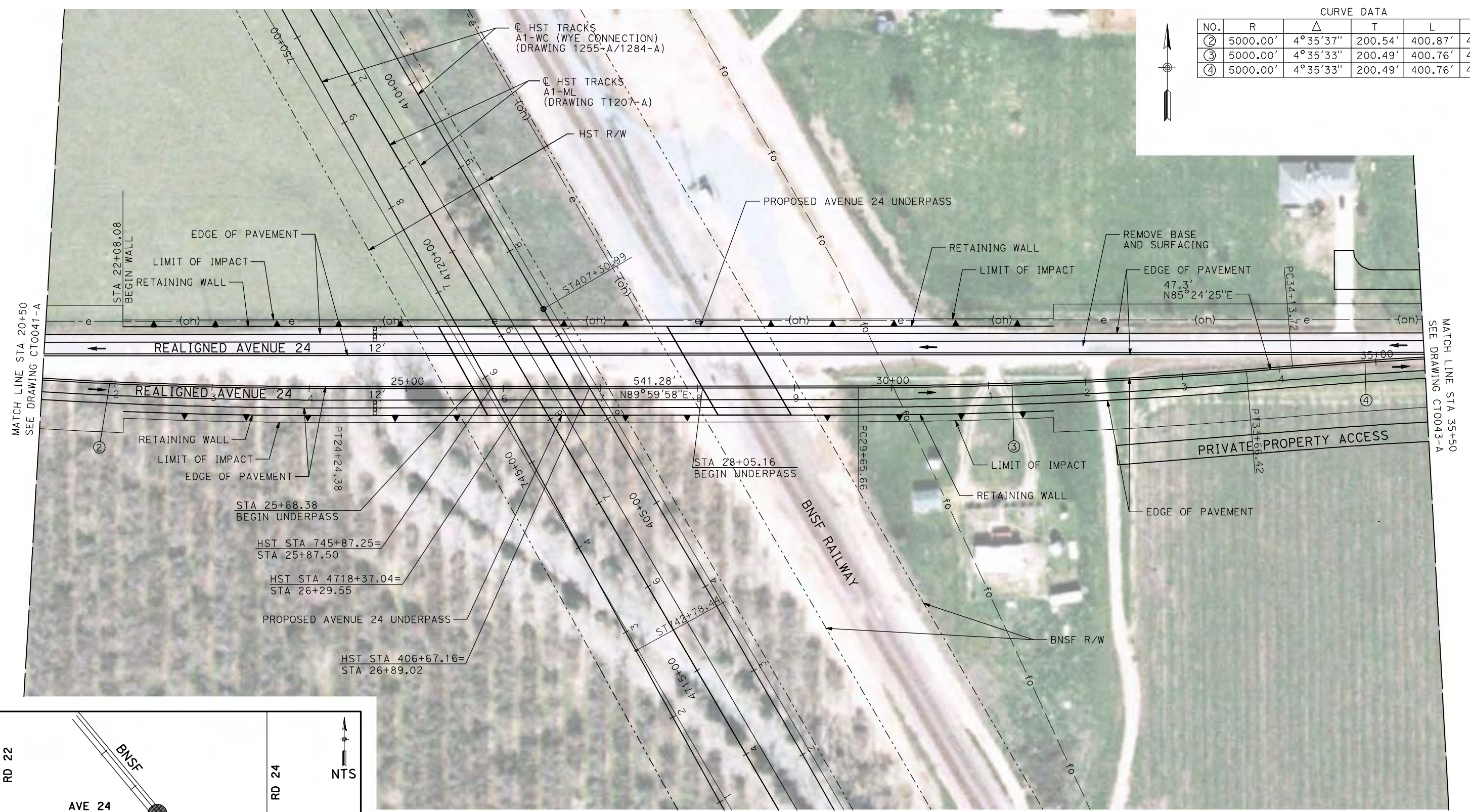


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - AVENUE 24
LAYOUT
SHEET 1 OF 3

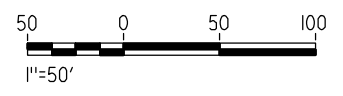
CONTRACT NO.
HSR06-007
DRAWING NO.
CT0041-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:56:20 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0042-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	4°35'37"	200.54'	400.87'	45 MPH
③	5000.00'	4°35'33"	200.49'	400.76'	45 MPH
④	5000.00'	4°35'33"	200.49'	400.76'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1039-A THROUGH CT1041-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

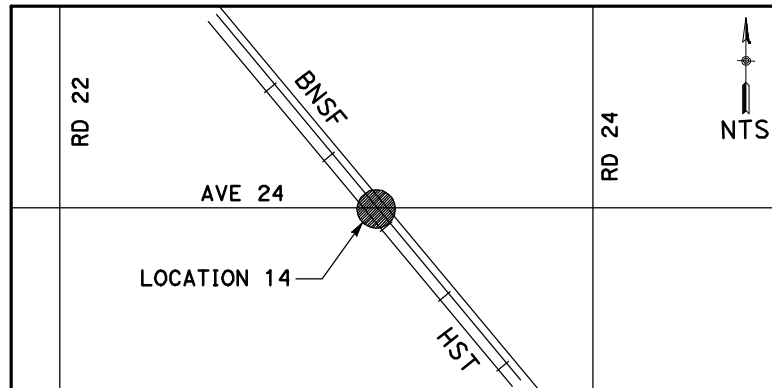
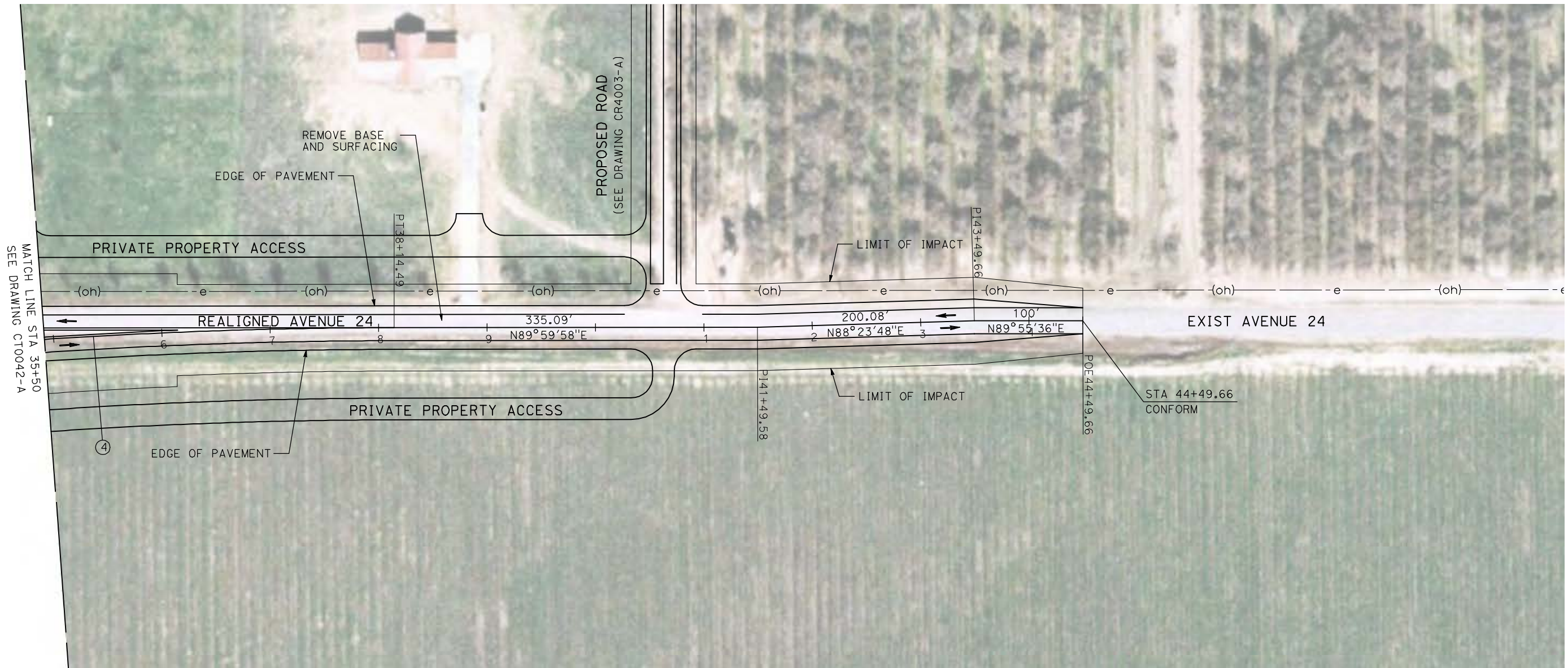
NOT FOR
CONSTRUCTION



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

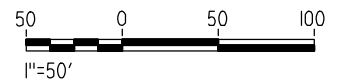
CONTRACT NO.
HST06-007
DRAWING NO.
CT0042-A
SCALE
AS SHOWN
SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
④	5000.00'	4°35'33"	200.49'	400.76'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1039-A THROUGH CT1041-A.



GibsonR1 4/29/2011 1:56:27 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0043-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**

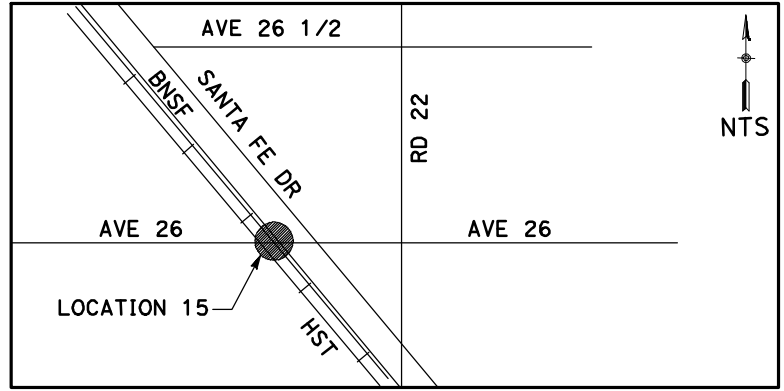
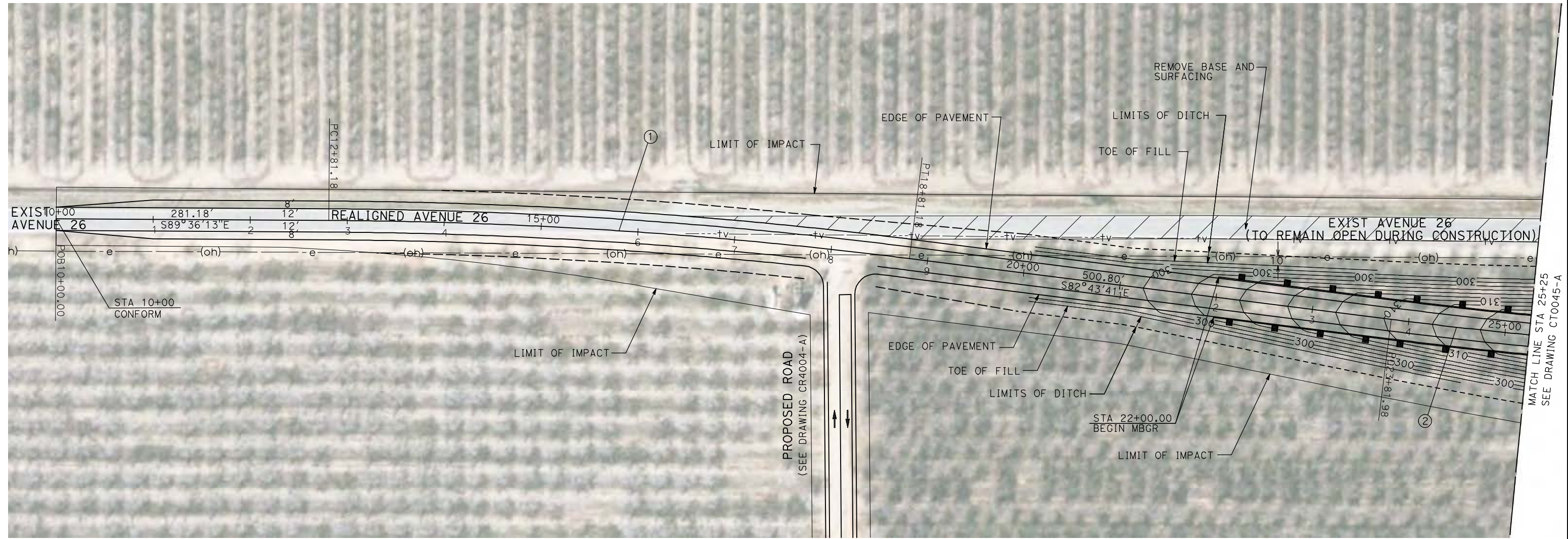


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - AVENUE 24
LAYOUT
SHEET 3 OF 3

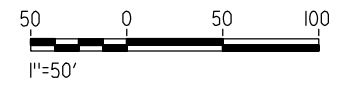
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HSR06-007
DRAWING NO.
CT0043-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:56:33 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0044-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 CT1042-A THROUGH CT1044-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
15% DESIGN
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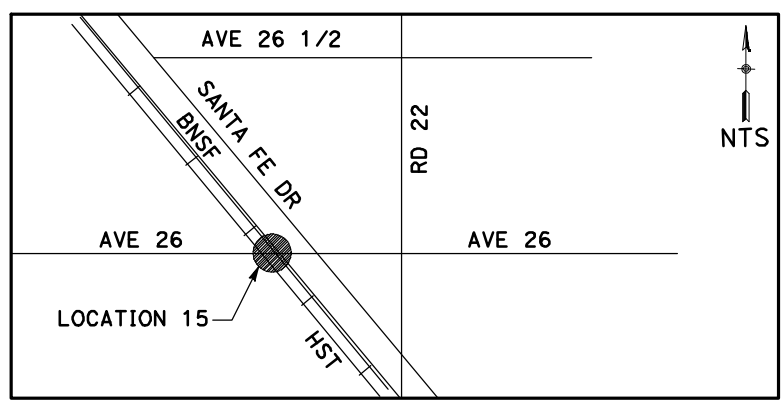
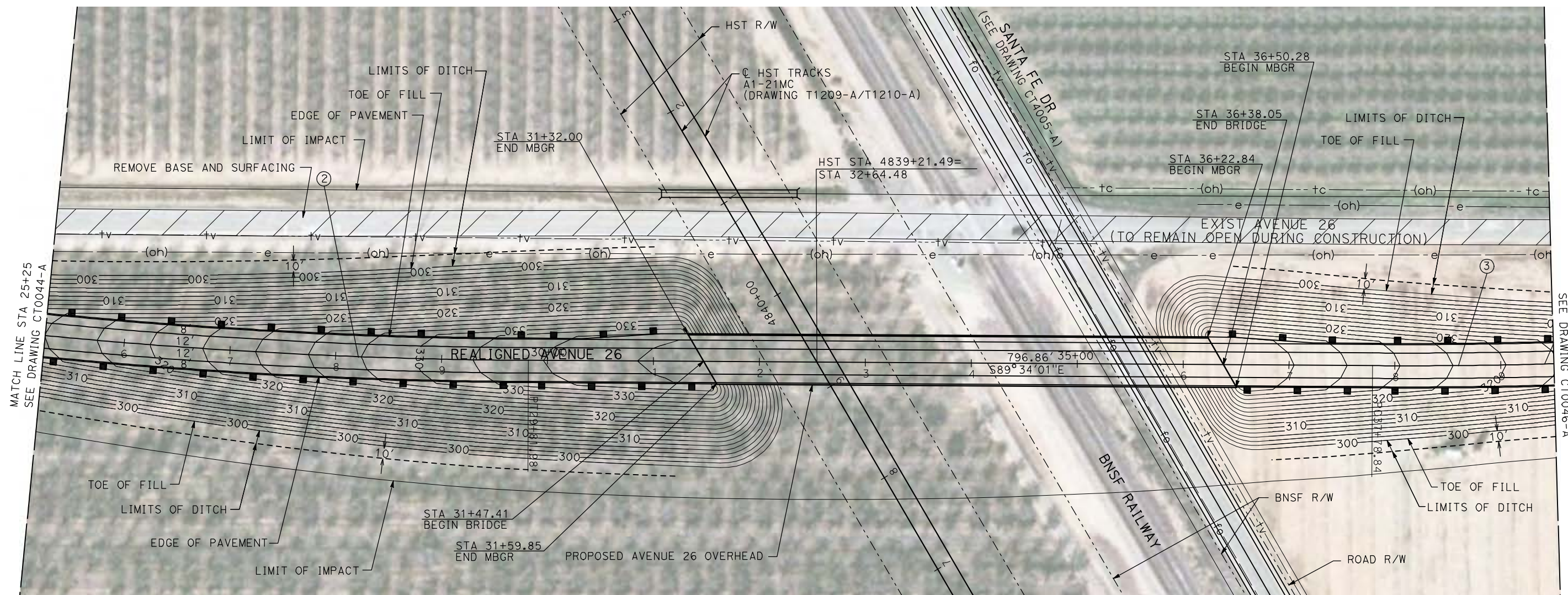
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 26
 LAYOUT
 SHEET 1 OF 4

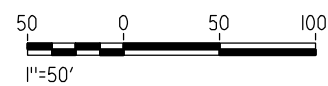
CONTRACT NO.	HST06-007
DRAWING NO.	CT0044-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

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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	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1042-A THROUGH CT1044-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 21 WYE
GRADE SEPARATION - AVENUE 26
LAYOUT
SHEET 2 OF 4

CONTRACT NO.
HSR06-007

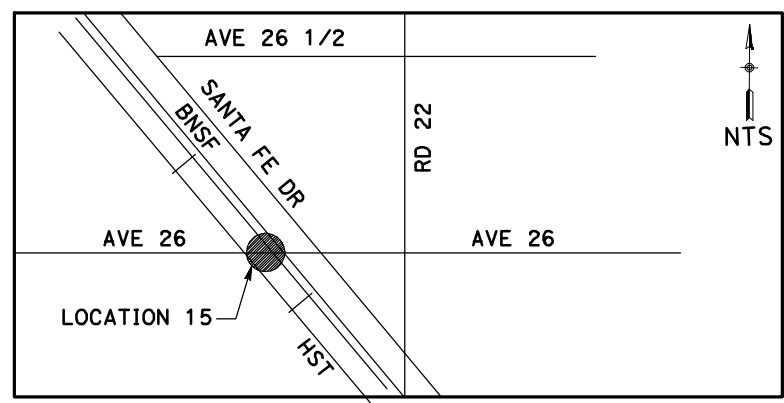
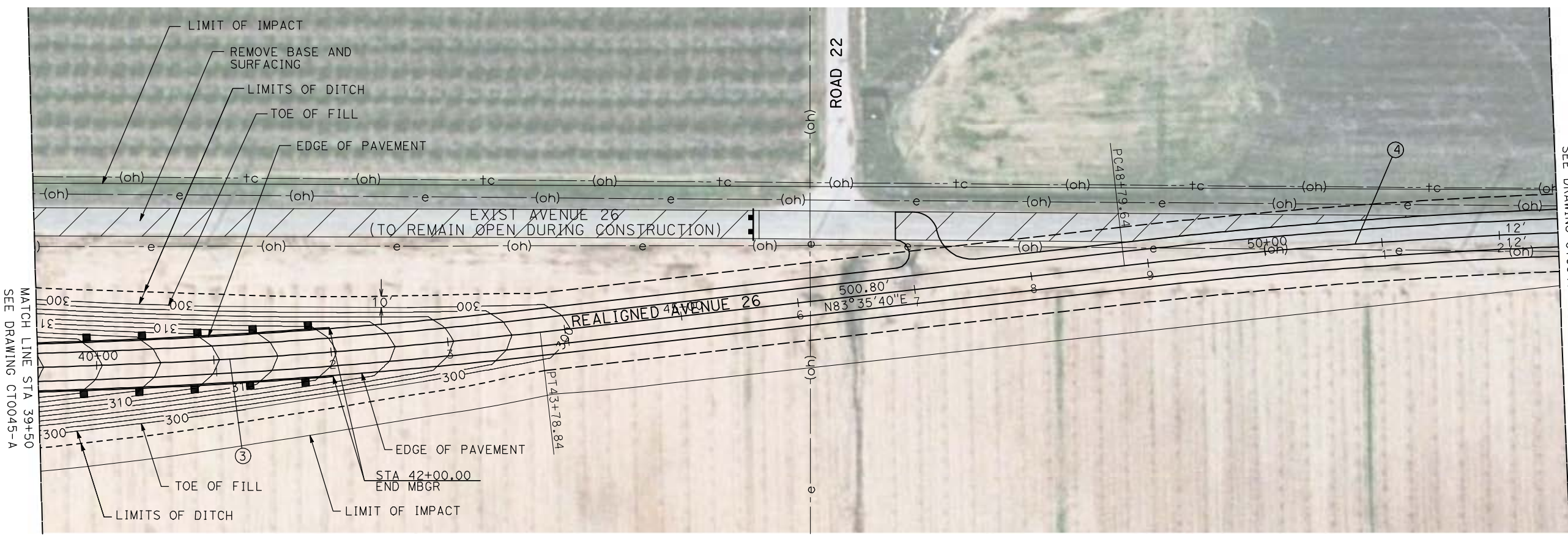
DRAWING NO.
CT0045-A

SCALE
AS SHOWN

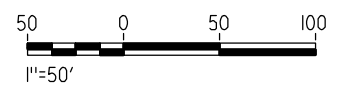
SHEET NO.
OF

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 CT1042-A THROUGH CT1044-A.



4/29/2011 1:56:48 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0046-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



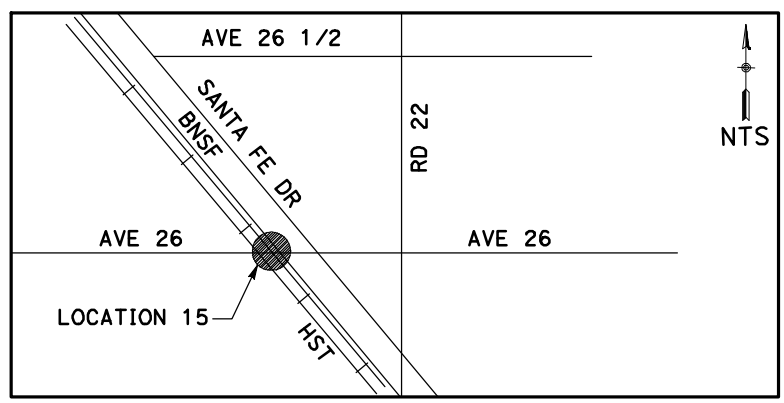
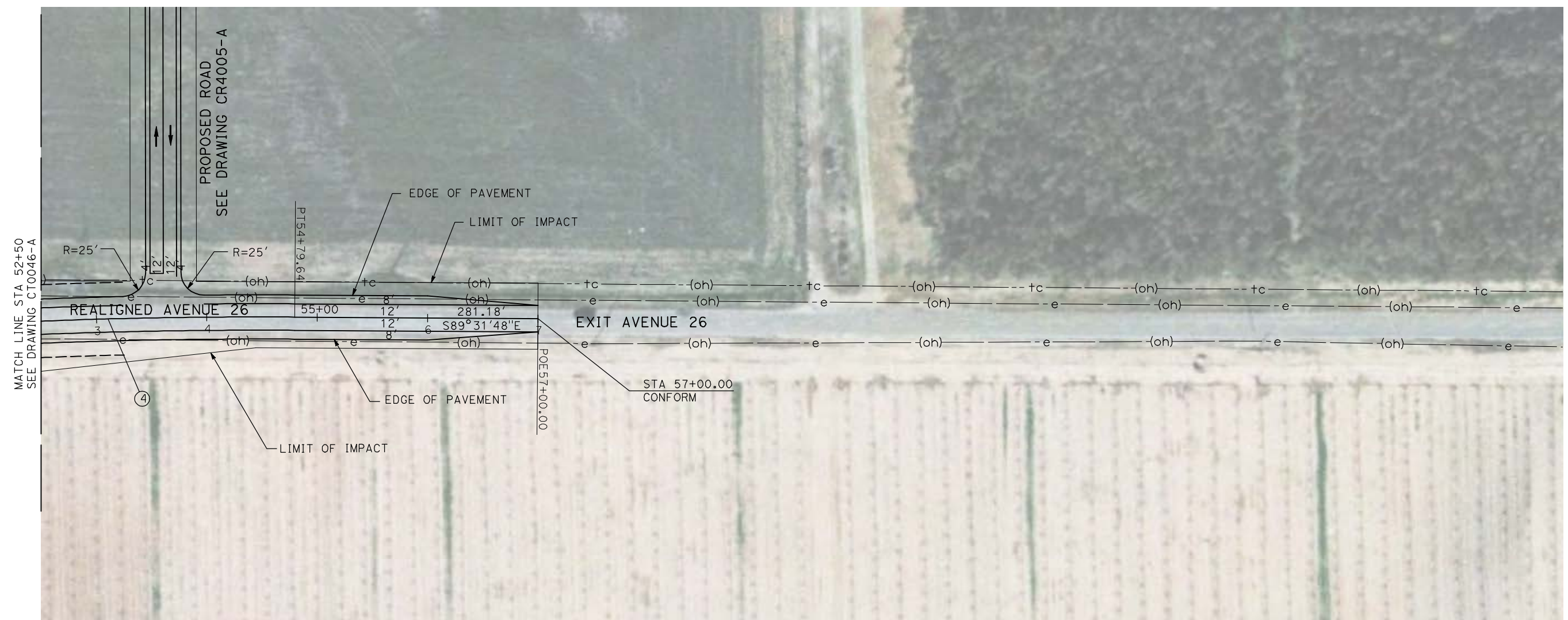
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 26
 LAYOUT
 SHEET 3 OF 4

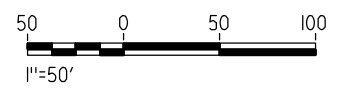
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0046-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 1:56:54 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0047-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 CT1042-A THROUGH CT1044-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

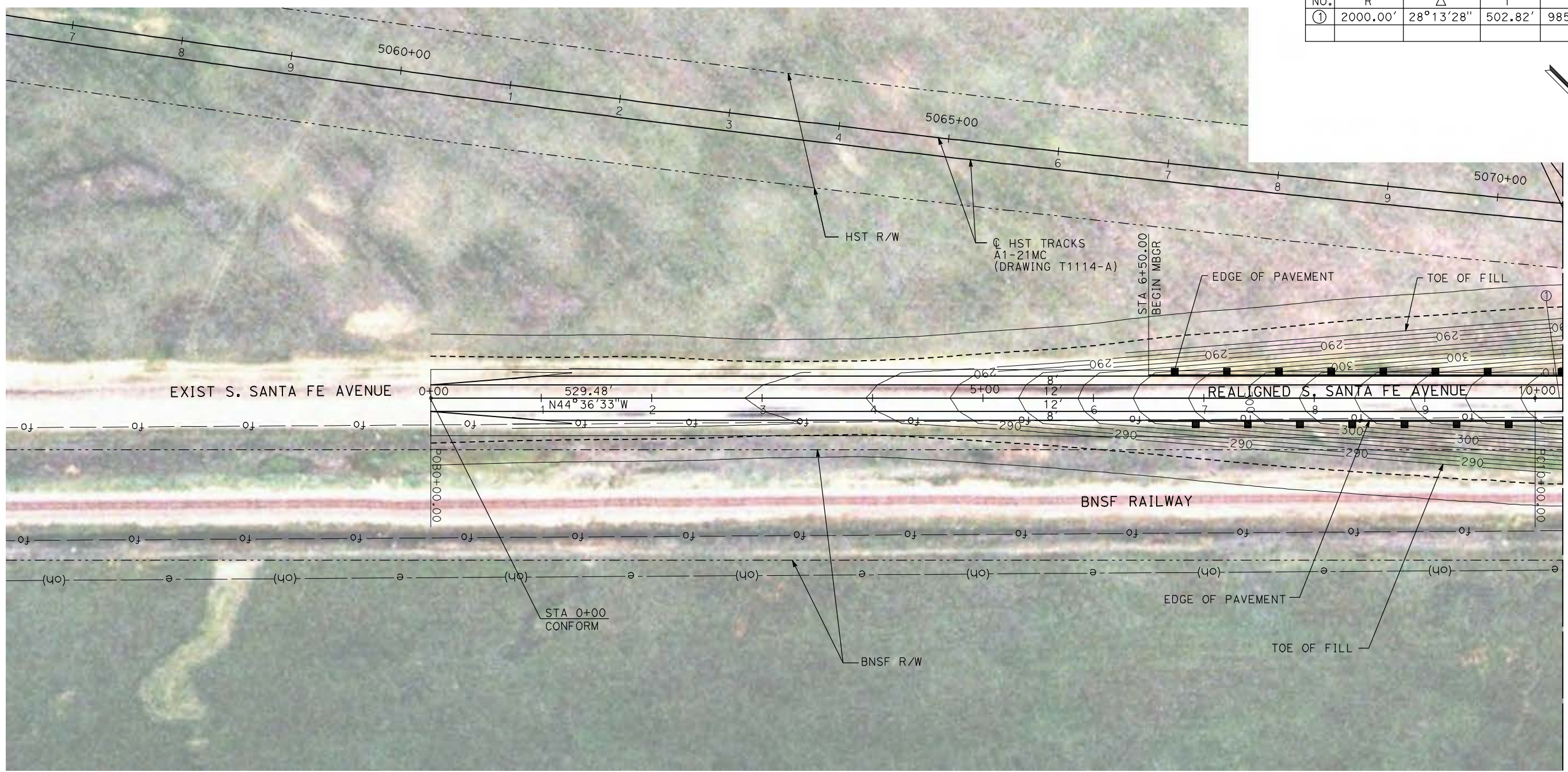


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

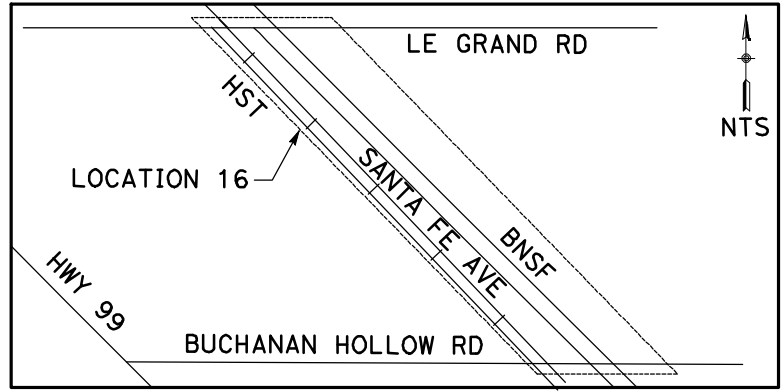
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 26
LAYOUT
SHEET 4 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0047-A
SCALE
AS SHOWN
SHEET NO.
OF

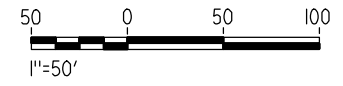
CURVE DATA					
NO.	R	Δ	T	L	V
①	2000.00'	28°13'28"	502.82'	985.22'	45 MPH



MATCH LINE STA 10+25
SEE DRAWING CT0049-A



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



4/29/2011 1:57:04 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0048-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

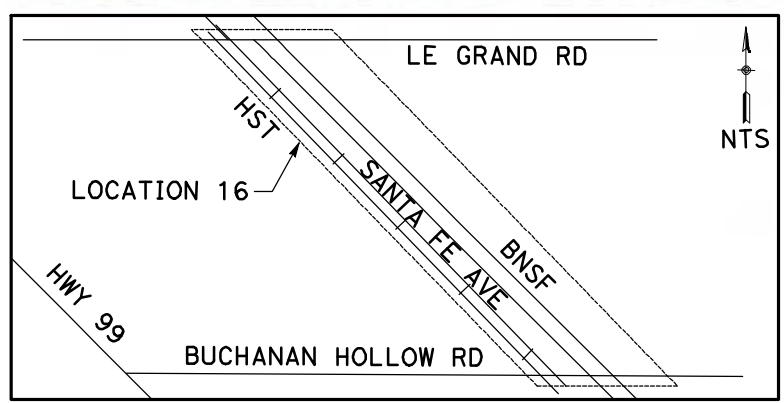
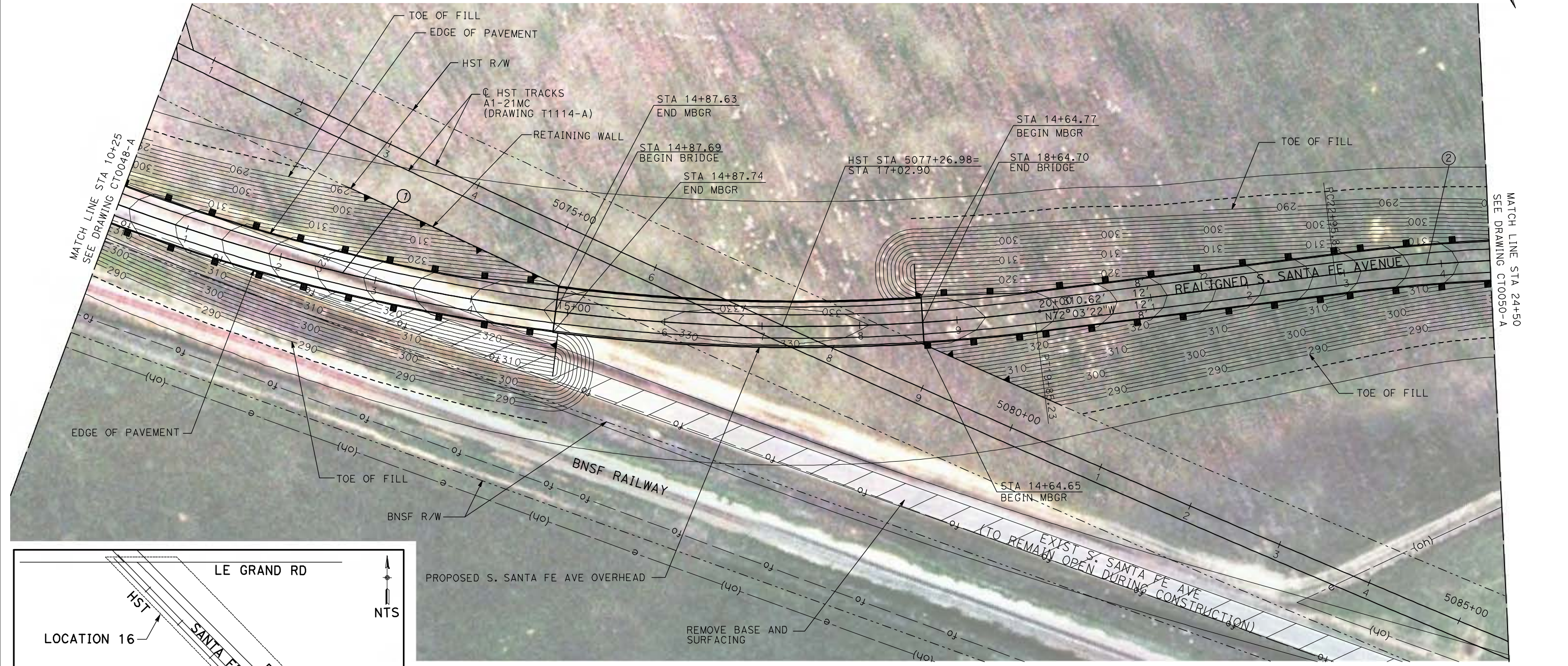
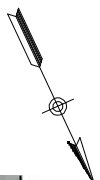


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. SANTA FE AVE
LAYOUT
SHEET 1 OF 3

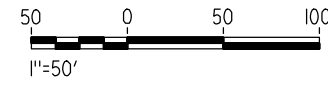
CONTRACT NO.
HST06-007
DRAWING NO.
CT0048-A
SCALE
AS SHOWN
SHEET NO.
OF

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.



4/29/2011 1:57:11 PM I:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0049-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

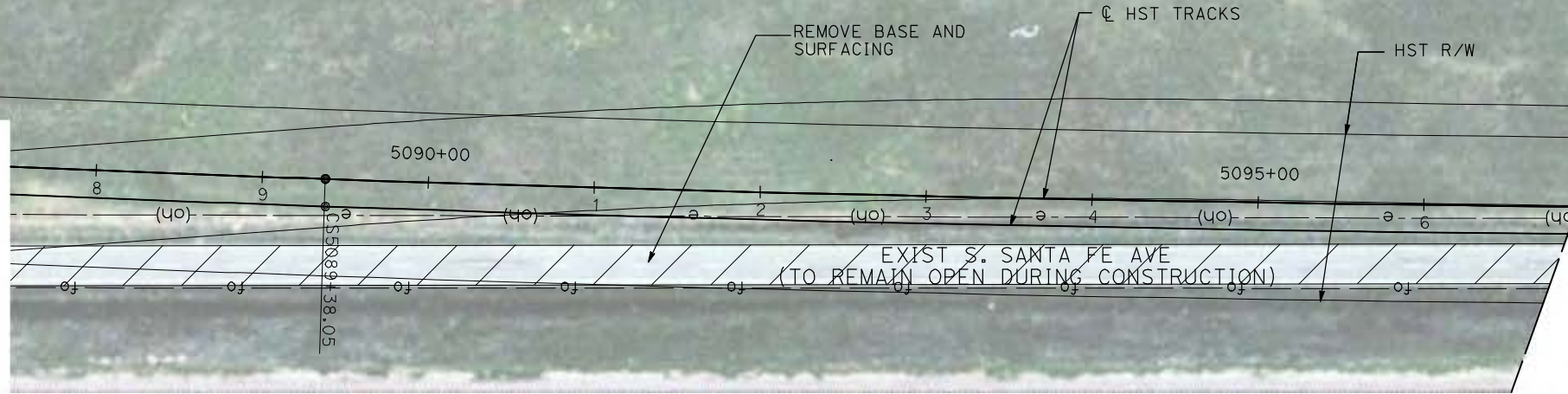
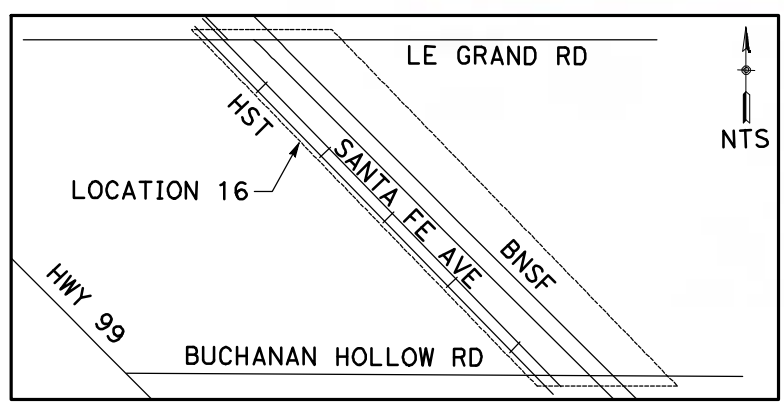
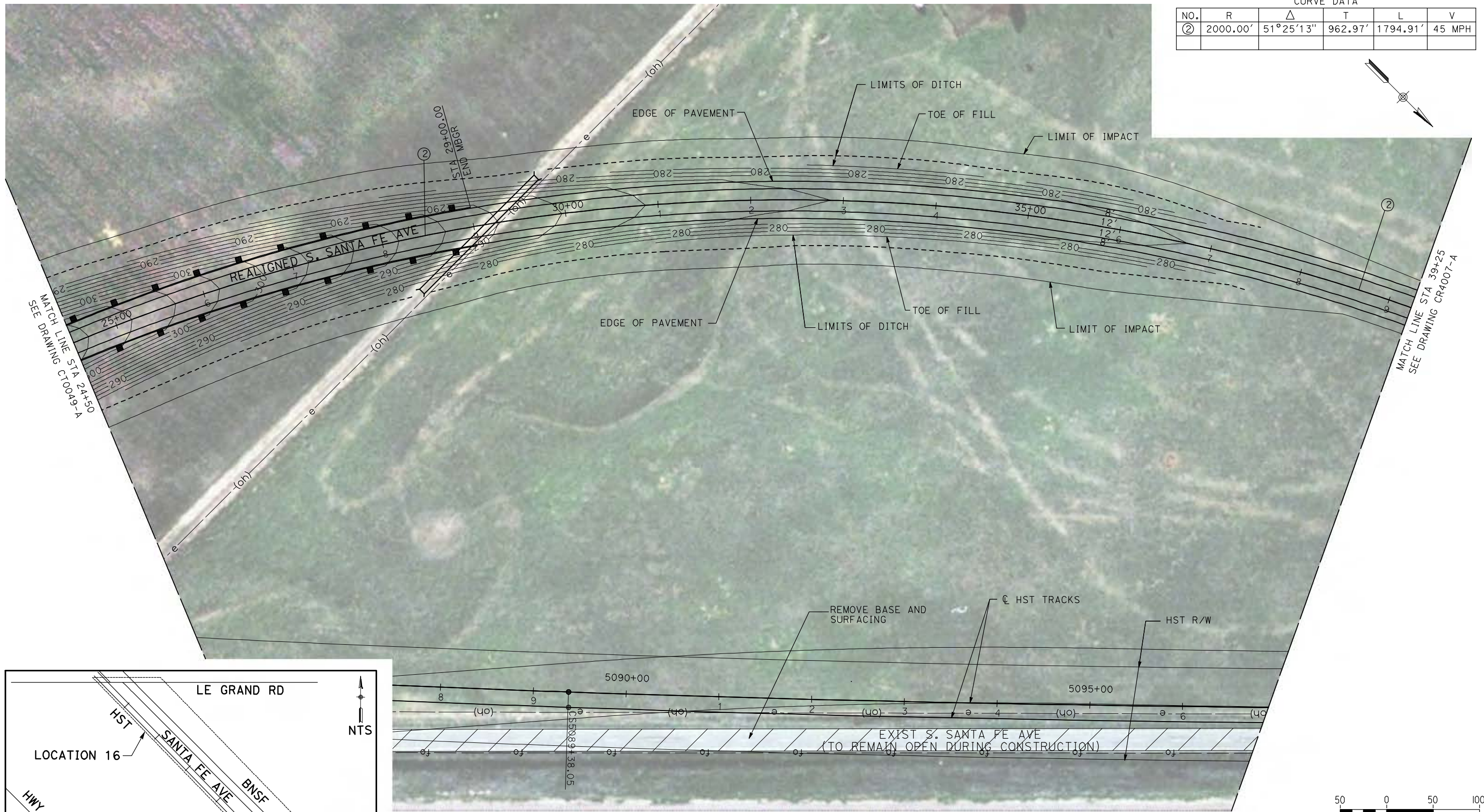


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. SANTA FE AVE
LAYOUT
SHEET 2 OF 3

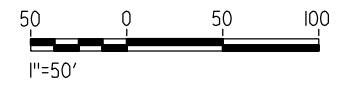
CONTRACT NO.
HST06-007
DRAWING NO.
CT0049-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:57:20 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0050-A.dgn

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

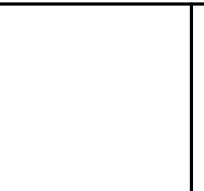


NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1045-A THROUGH CT1047-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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

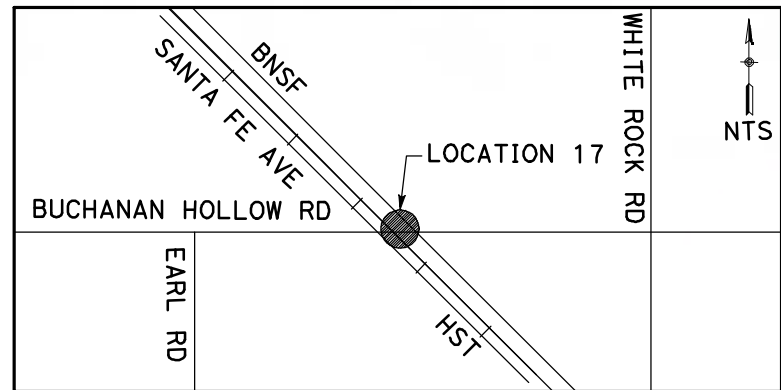
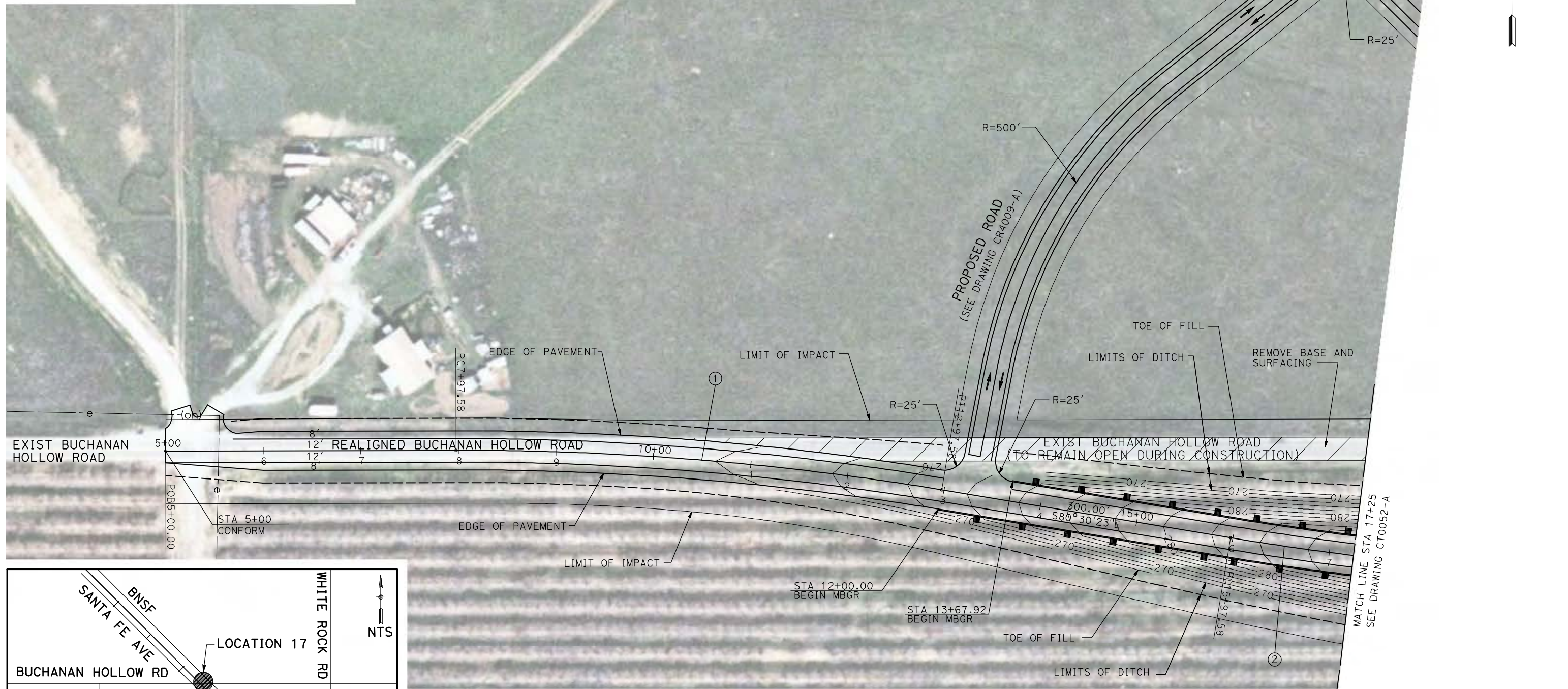


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. SANTA FE AVE
 LAYOUT
 SHEET 3 OF 3

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

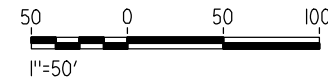
CURVE DATA

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.



4/29/2011 1:57:28 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0051-A.dgn

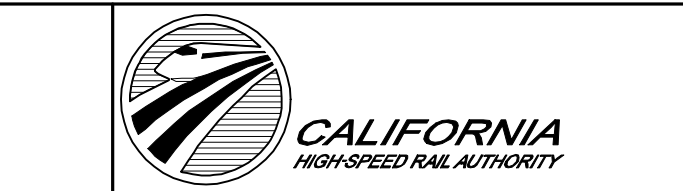
GibsonR1

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

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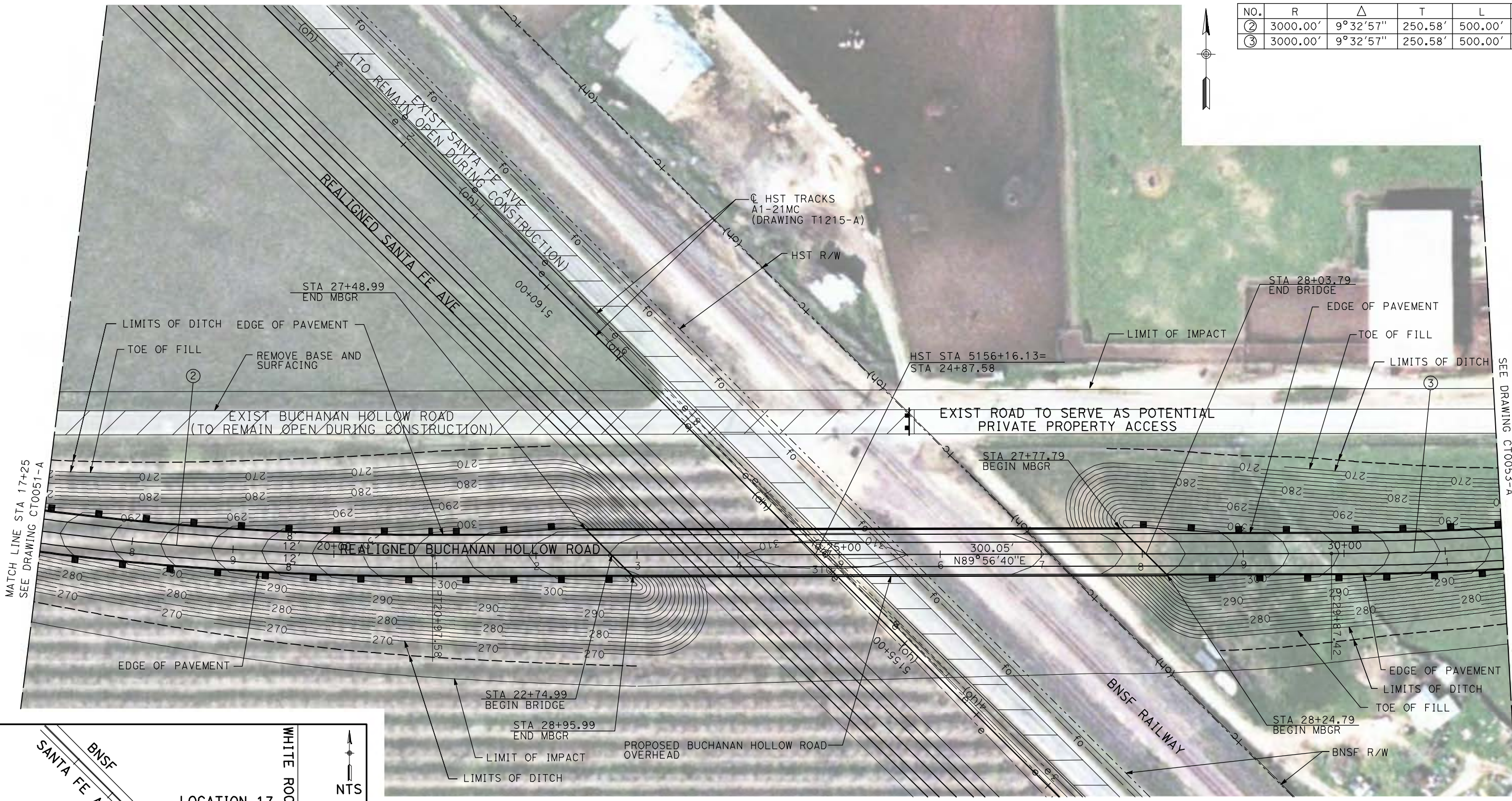
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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

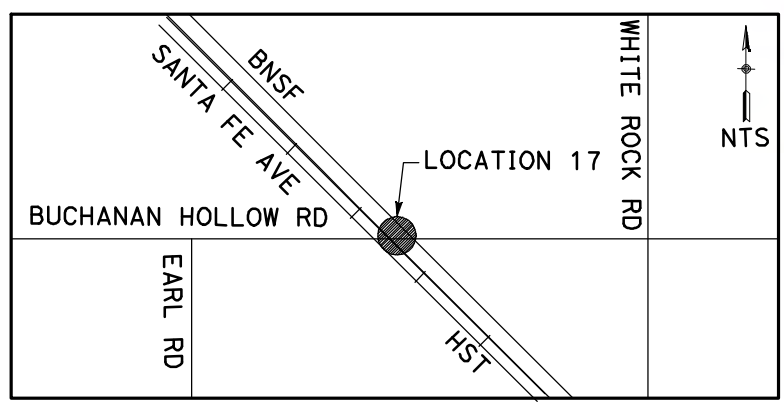
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CURVE DATA					
NO.	R	Δ	T	L	V
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③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH

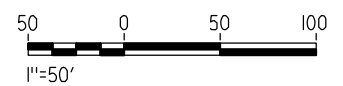


MATCH LINE STA 17+25
SEE DRAWING CT0051-A

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

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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

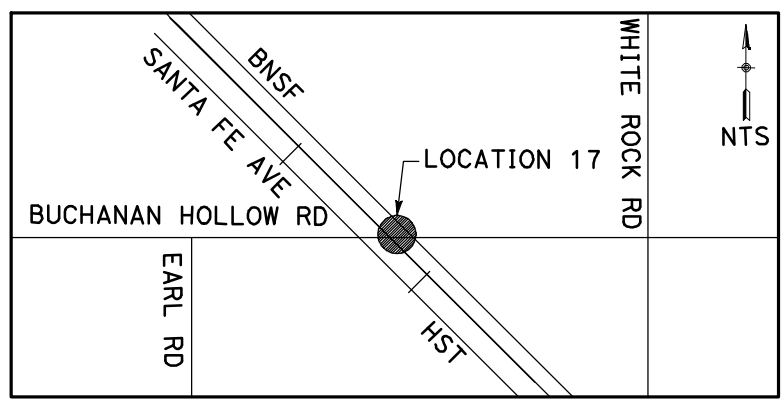
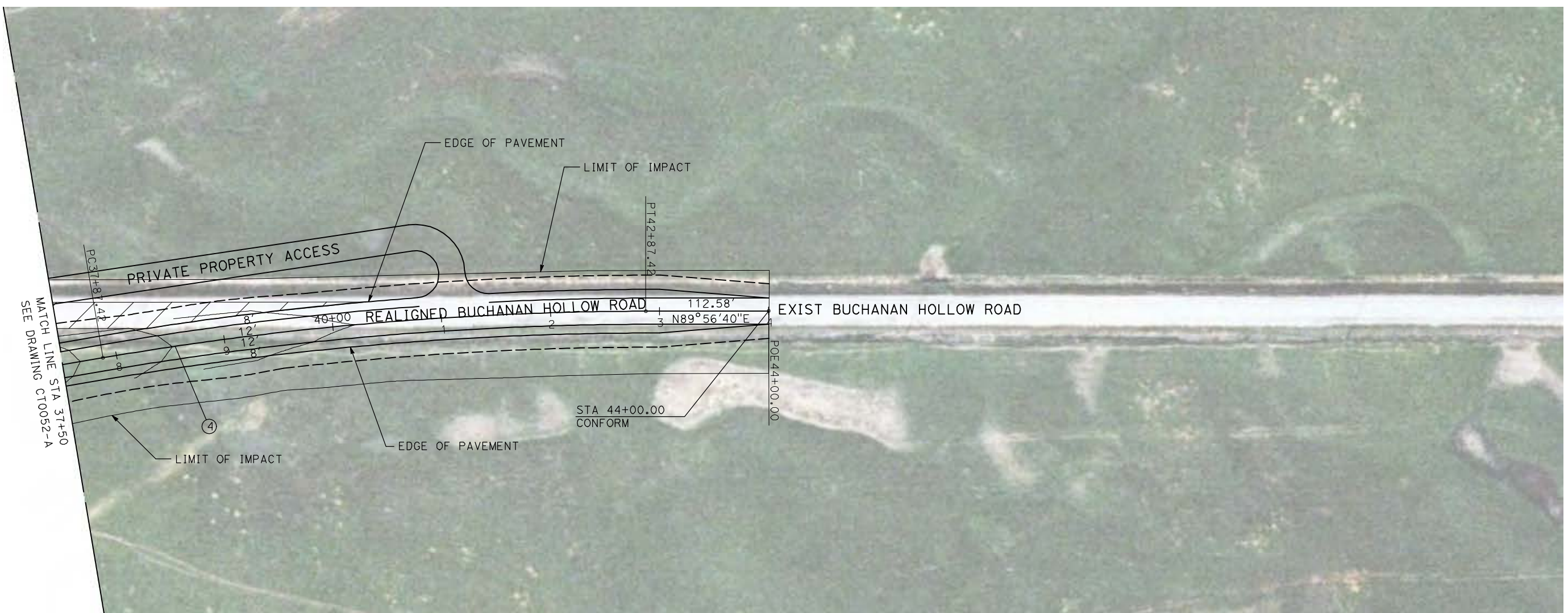
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - BUCHANAN HOLLOW ROAD
LAYOUT
SHEET 2 OF 3

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

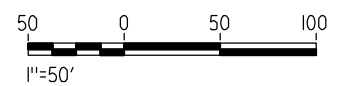
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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



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
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04/29/2011

RECORD SET
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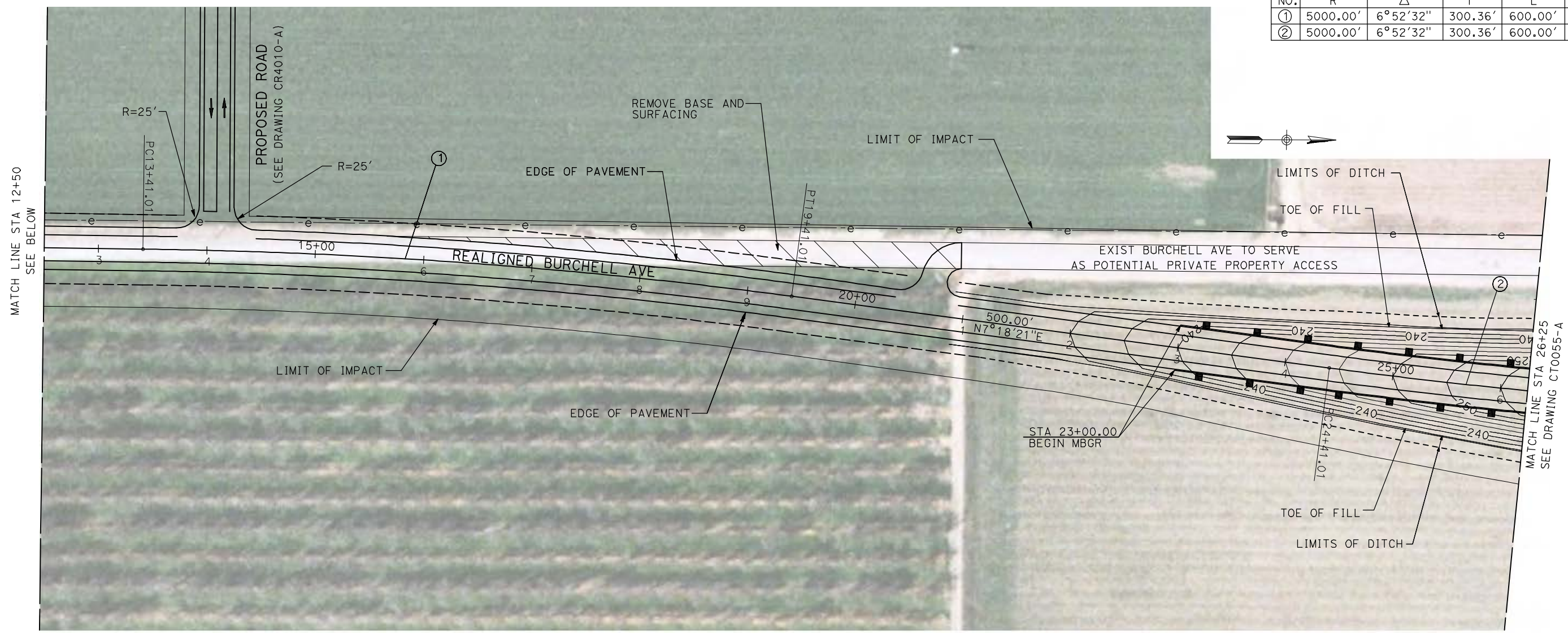
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - BUCHANAN HOLLOW ROAD
LAYOUT
SHEET 3 OF 3

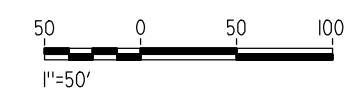
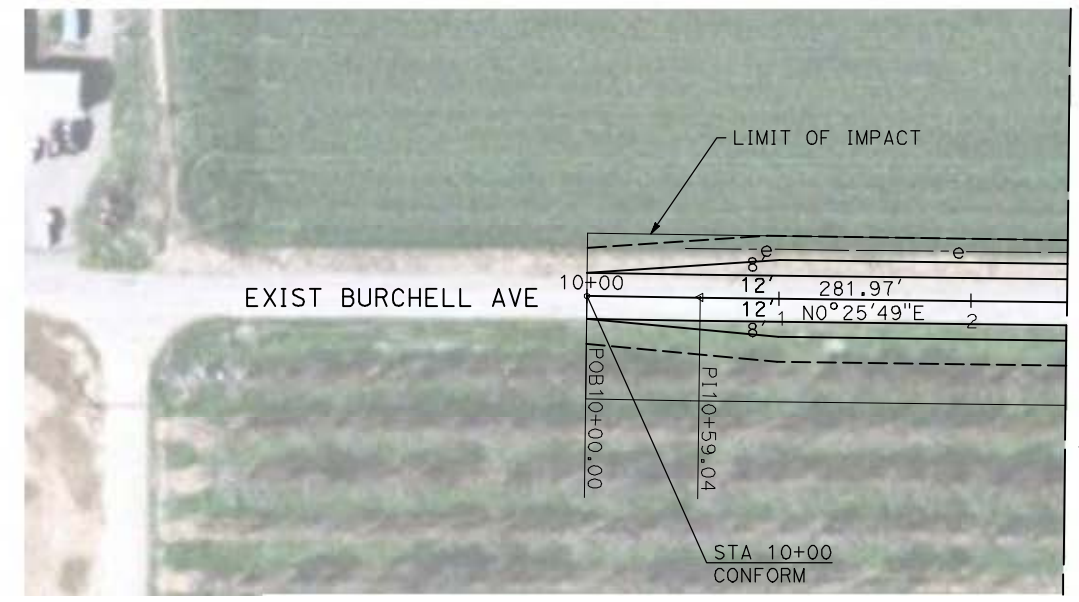
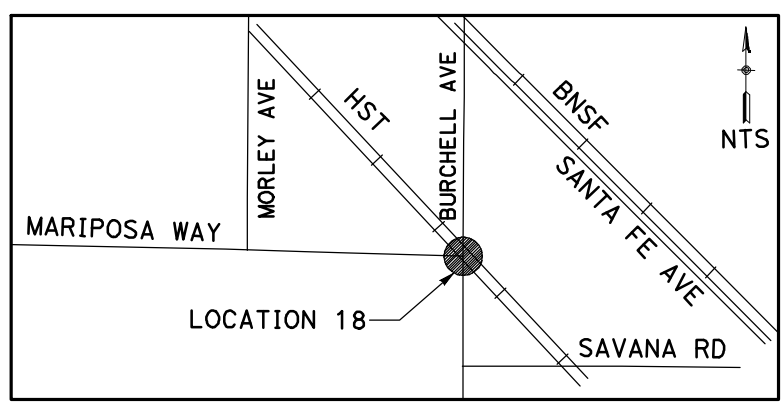
CONTRACT NO.
HST06-007
DRAWING NO.
CT0053-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:57:52 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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
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CONSTRUCTION

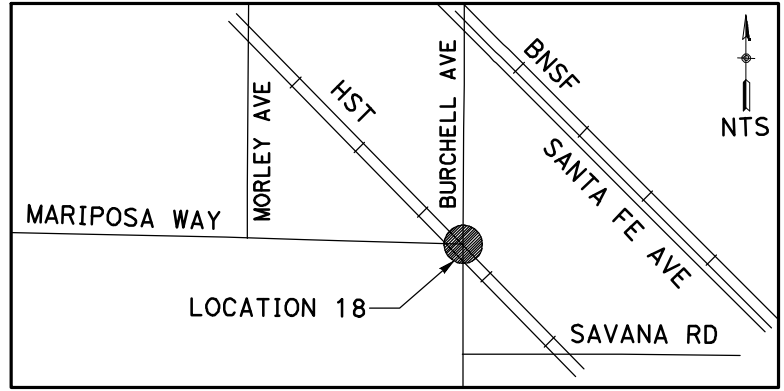
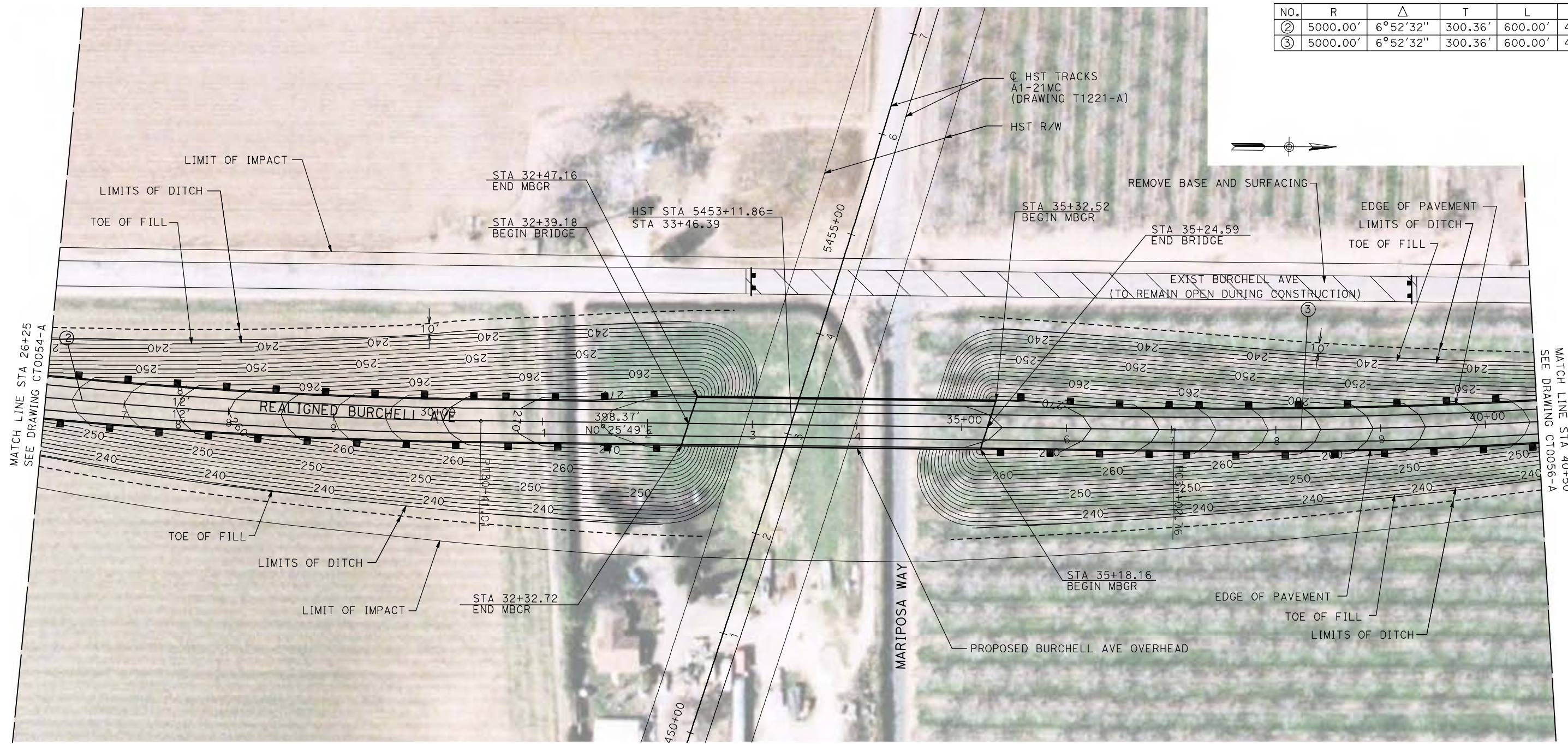


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - BURCHELL AVE
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0054-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 1:57:59 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\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
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

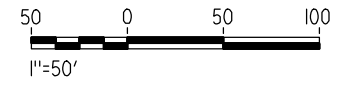
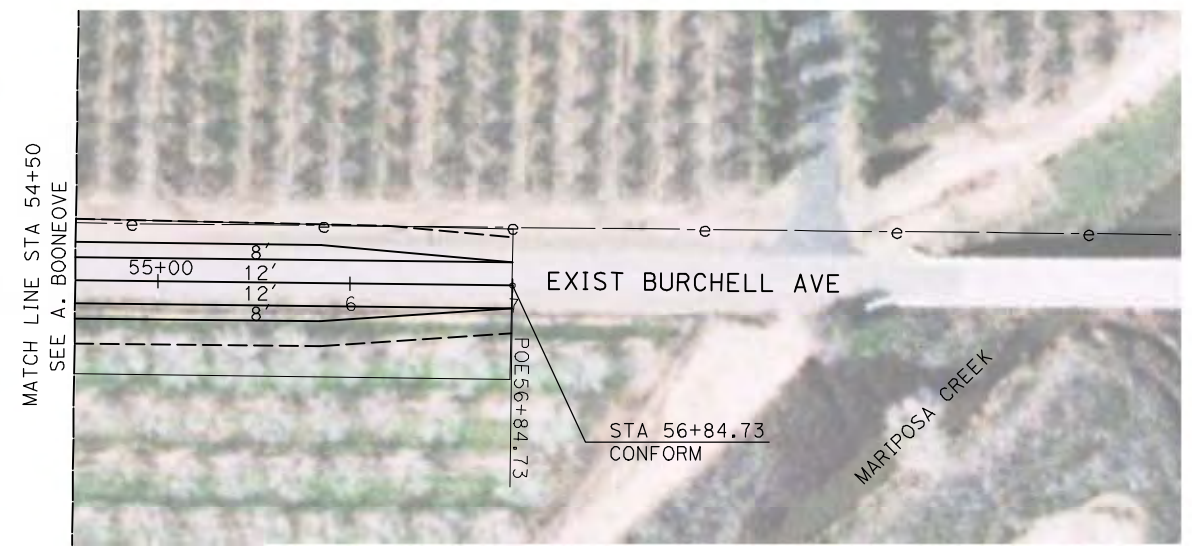
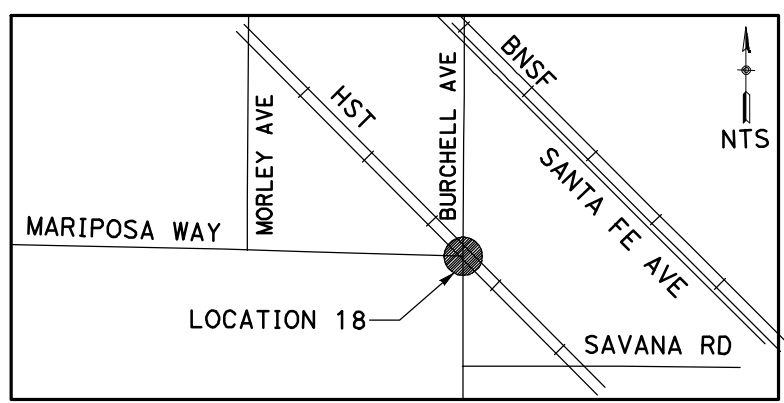
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - BURCHELL AVE
LAYOUT
SHEET 2 OF 3

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

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
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A. BOONE

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - BURCHELL AVE
 LAYOUT
 SHEET 3 OF 3

CONTRACT NO.
HST06-007

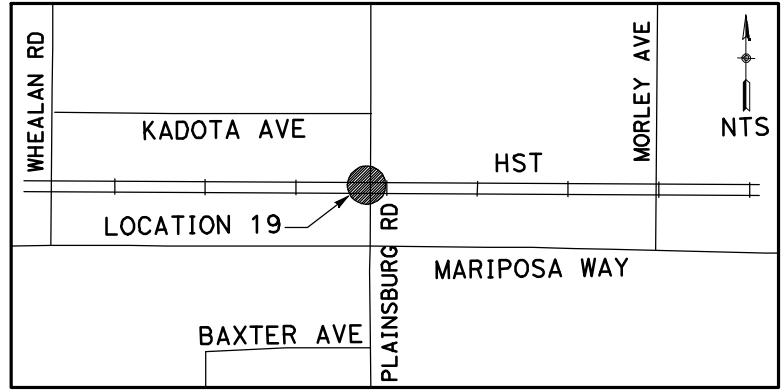
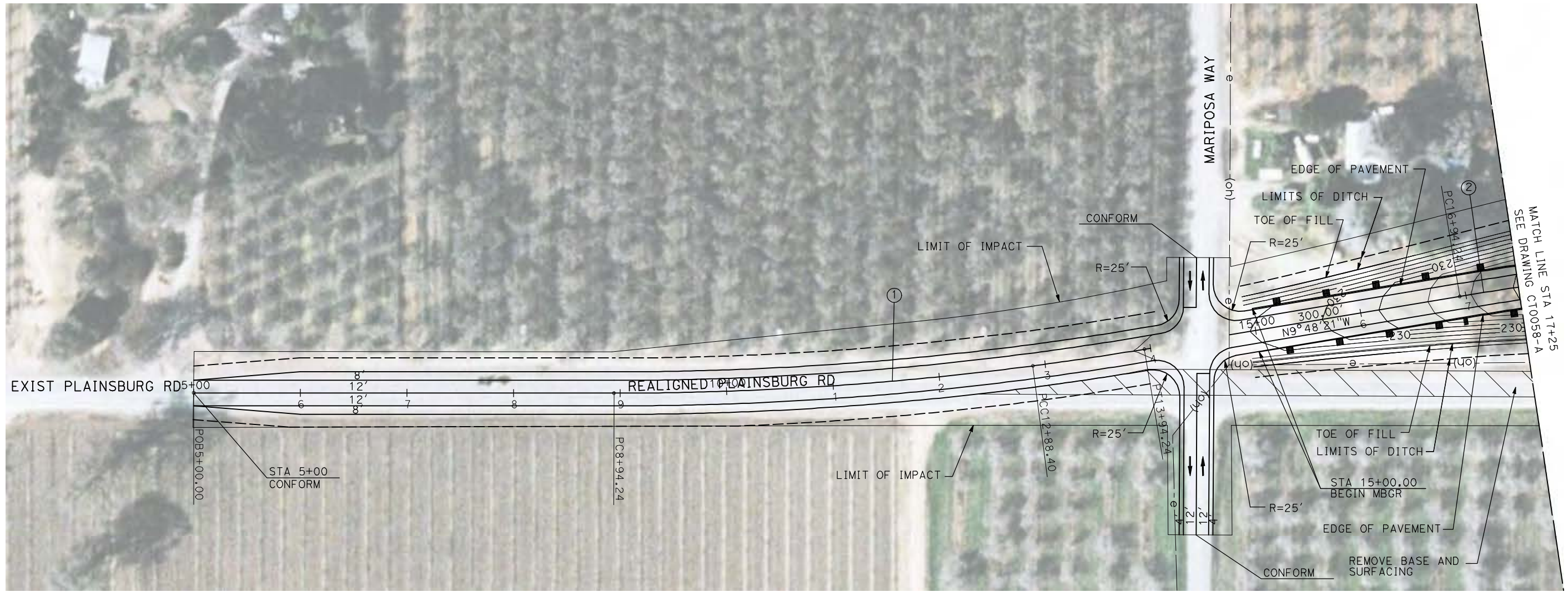
DRAWING NO.
CT0056-A

SCALE
AS SHOWN

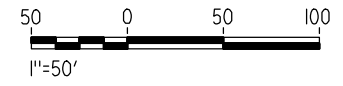
SHEET NO.
OF

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 GibsonR1

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.



GibsonR1 4/29/2011 1:58:15 PM I:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0057-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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04/29/2011

RECORD SET
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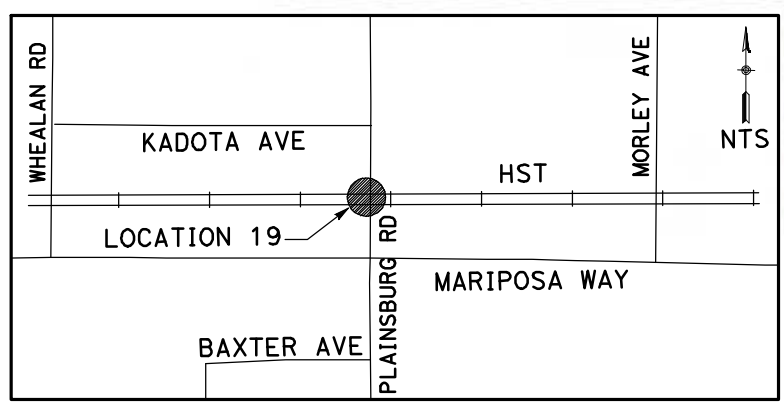
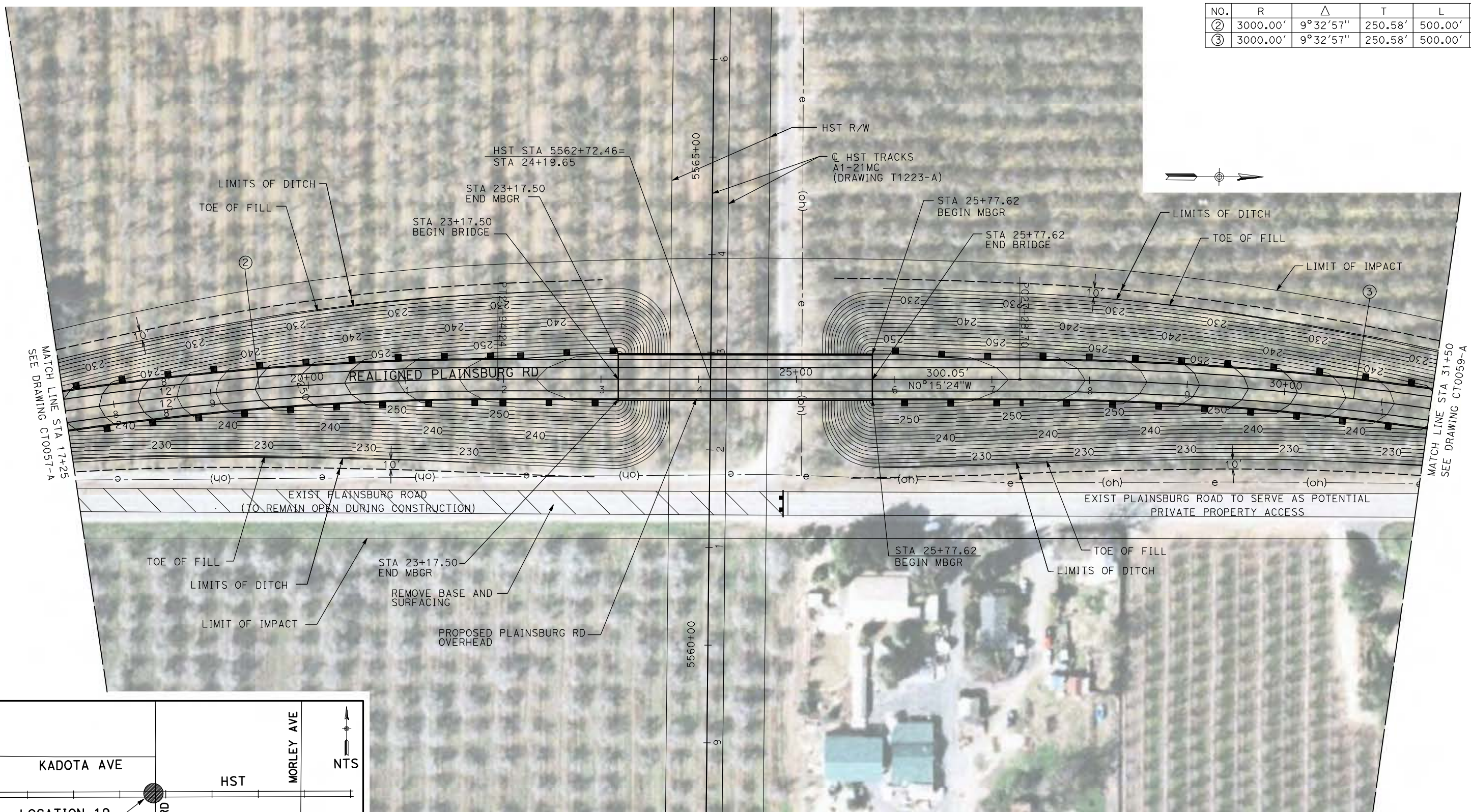


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - PLAINSBURG RD
 LAYOUT
 SHEET 1 OF 3

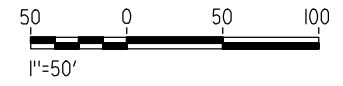
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0057-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 1:58:22 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-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

RECORD SET
15% DESIGN
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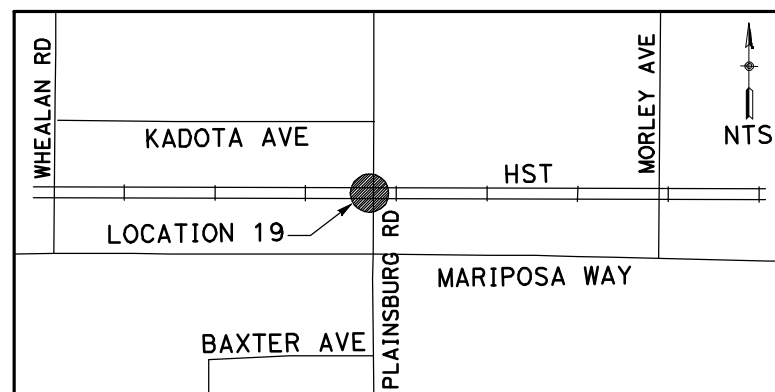
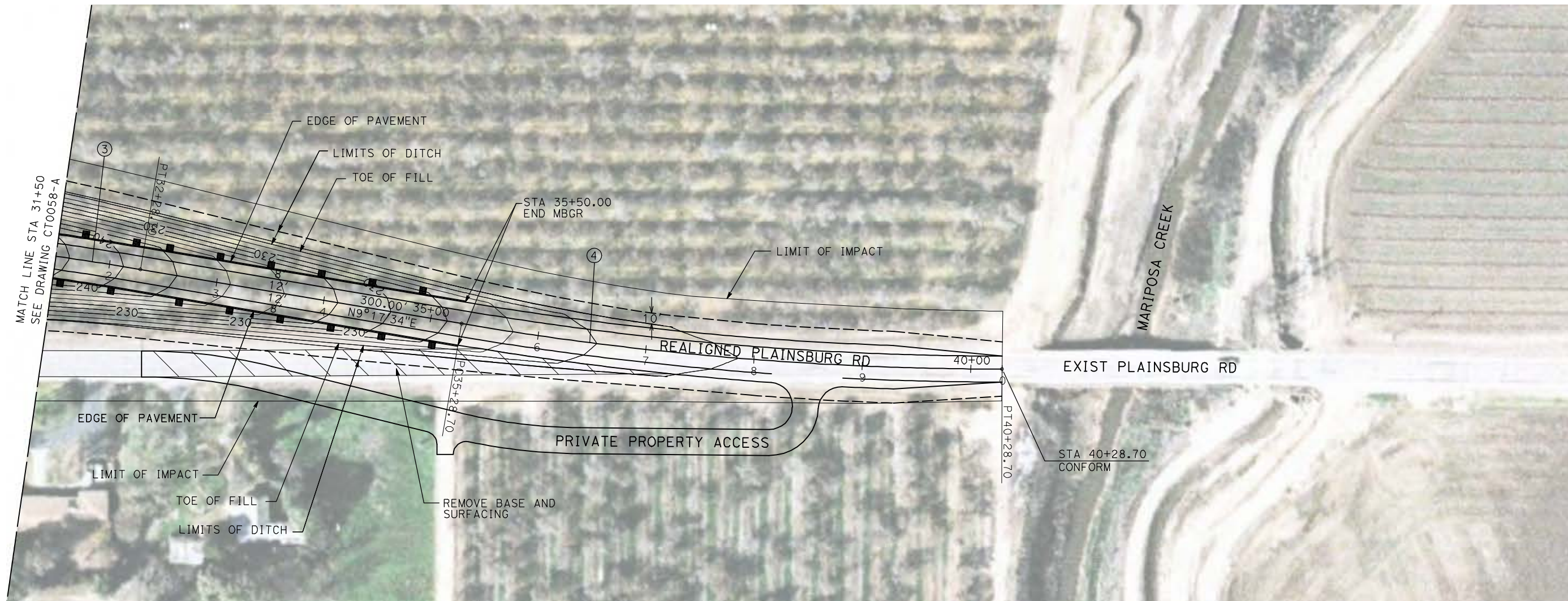


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 2 OF 3

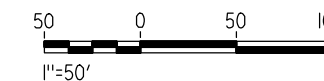
CONTRACT NO.
HST06-007
DRAWING NO.
CT0058-A
SCALE
AS SHOWN
SHEET NO.
OF

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 CT1054-A THROUGH CT1056-A.



G:\bisonr1\4/29/2011 1:58:31 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0059-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
A. BOONE
DATE
04/29/2011

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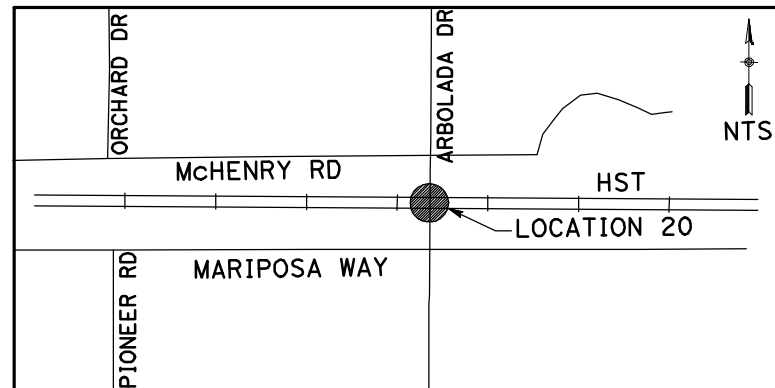
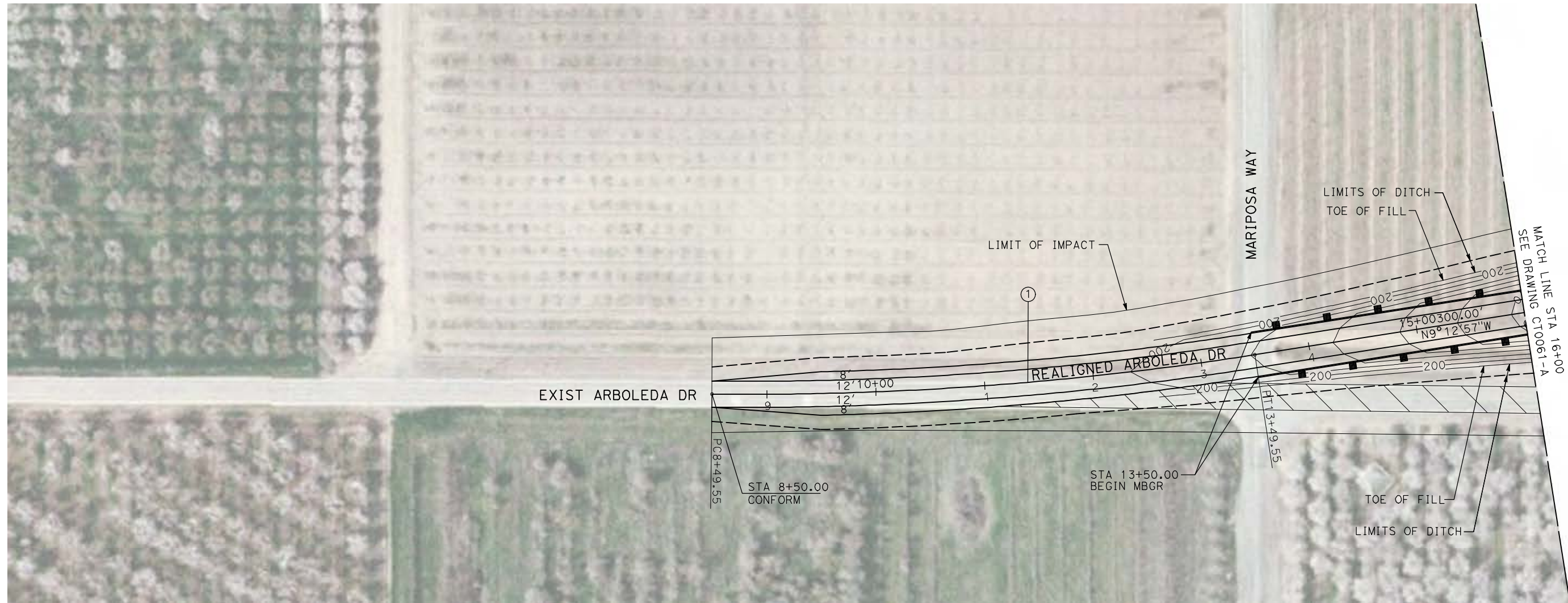
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CONSTRUCTION



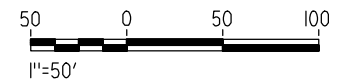
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0059-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



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



4/29/2011 1:58:38 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0060-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

RECORD SET
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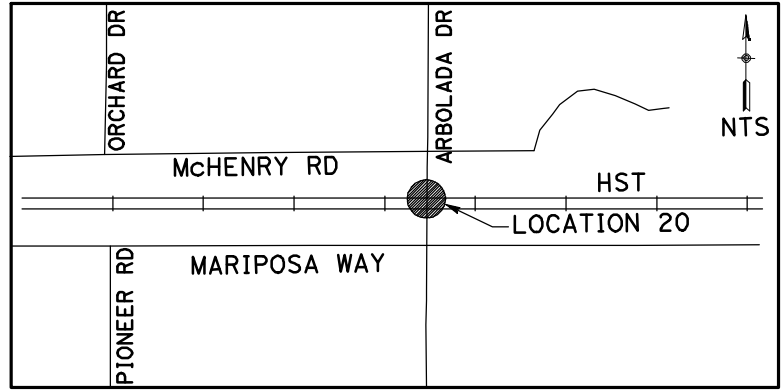
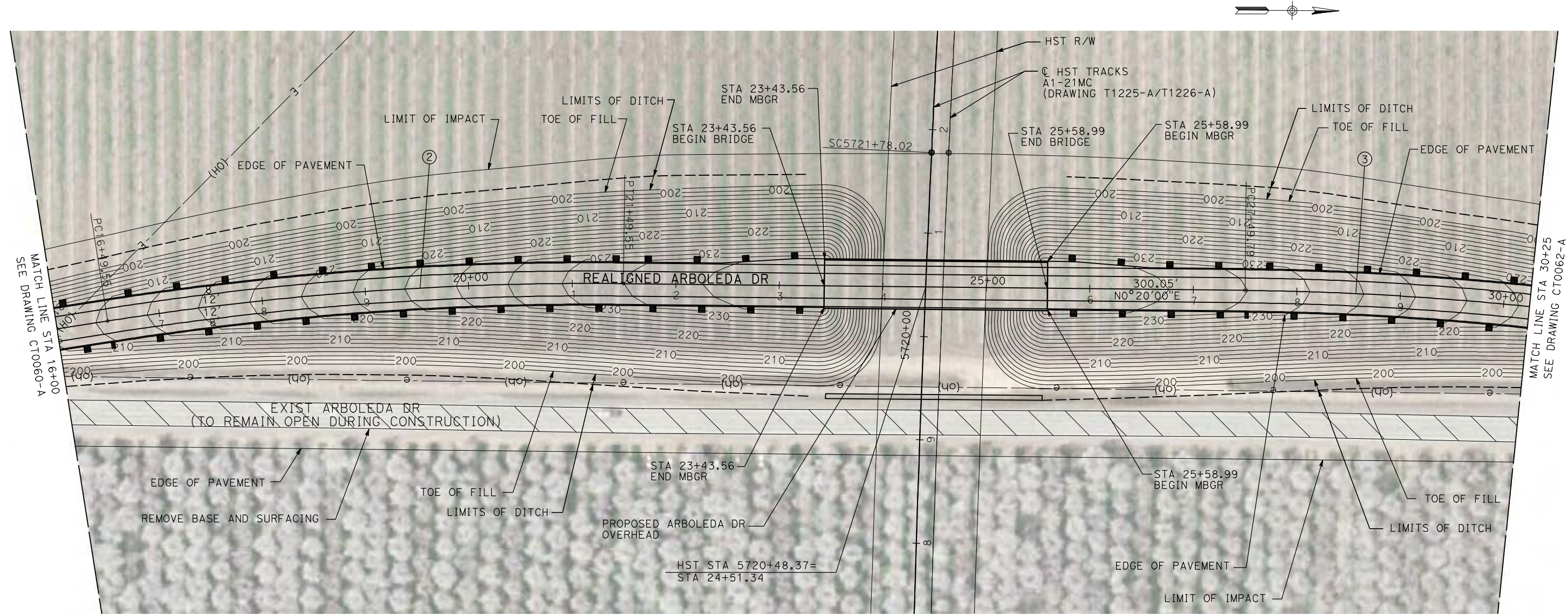
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CONSTRUCTION



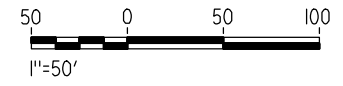
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. ARBOLEDA DR
 LAYOUT
 SHEET 1 OF 3

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

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.



4/29/2011 1:58:45 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0061-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 21 WYE
GRADE SEPARATION - S. ARBOLEDA DR
LAYOUT
SHEET 2 OF 3

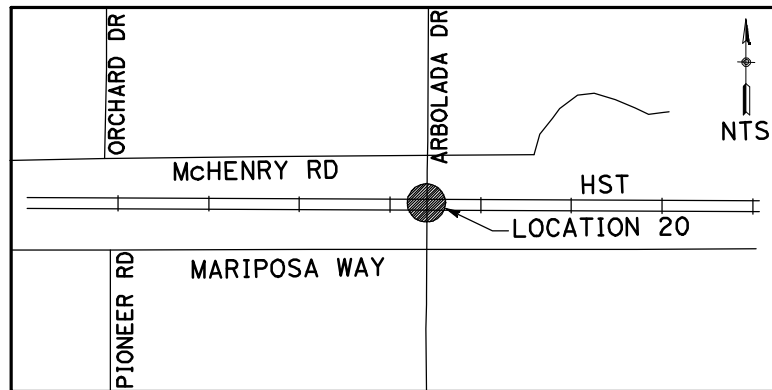
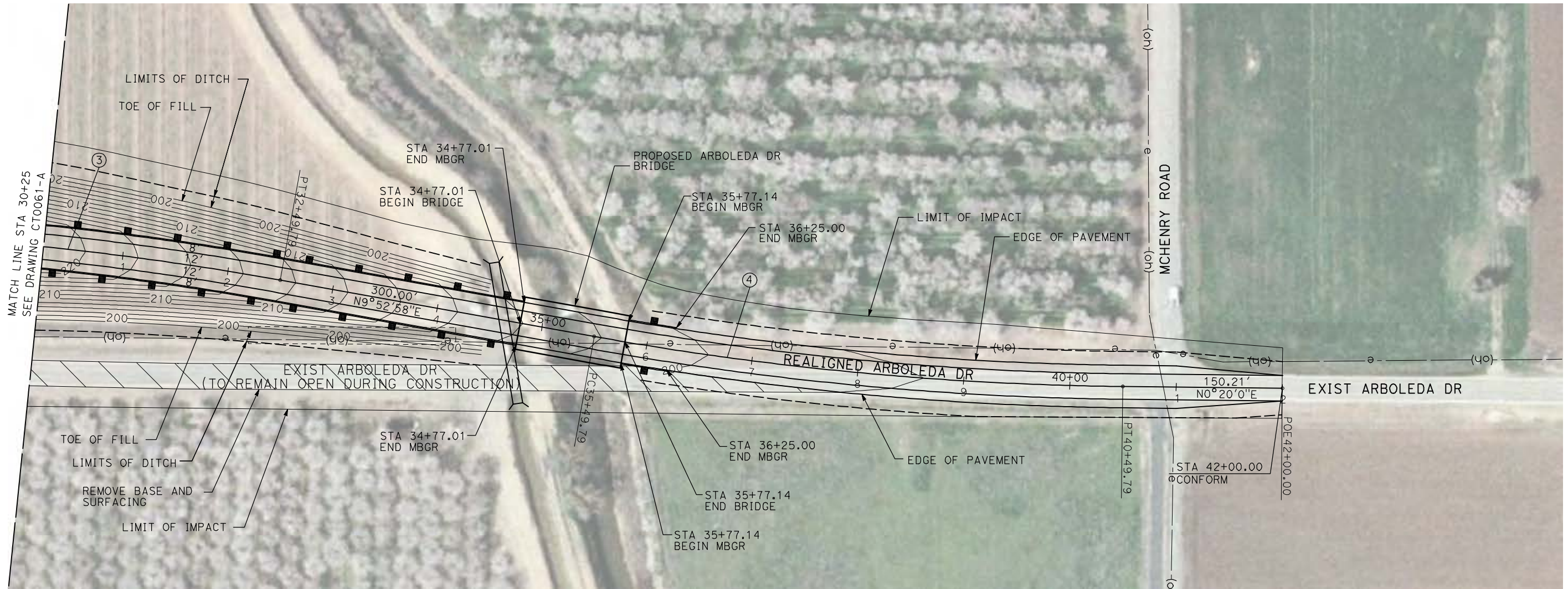
CONTRACT NO.
HST06-007

DRAWING NO.
CT0061-A

SCALE
AS SHOWN

SHEET NO.
OF

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.



GibsonR1 4/29/2011 1:58:53 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0062-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**

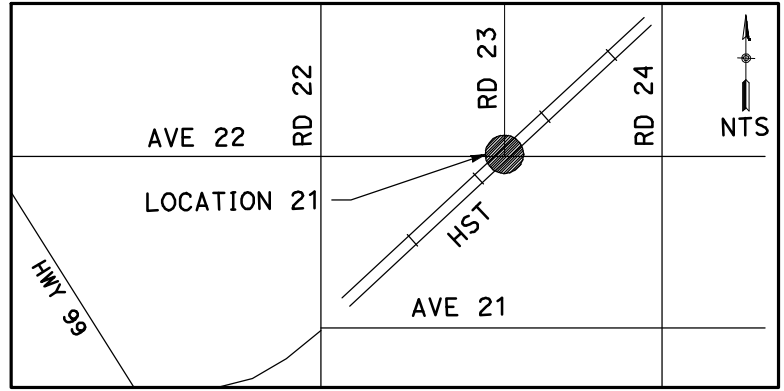
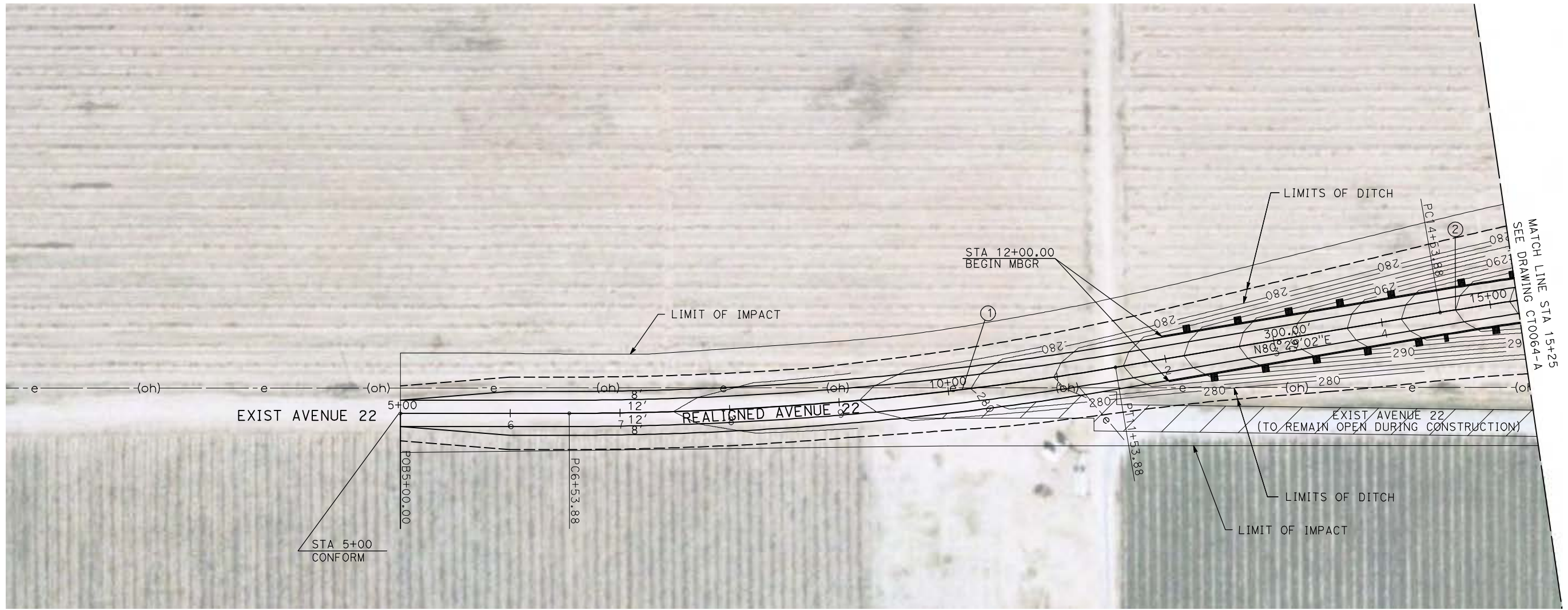
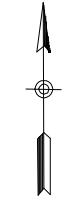


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. ARBOLEDA DR
LAYOUT
SHEET 3 OF 3

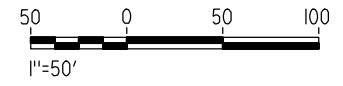
CONTRACT NO.
HST06-007
DRAWING NO.
CT0062-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:59:00 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0063-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 CT1060-A THROUGH CT1062-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

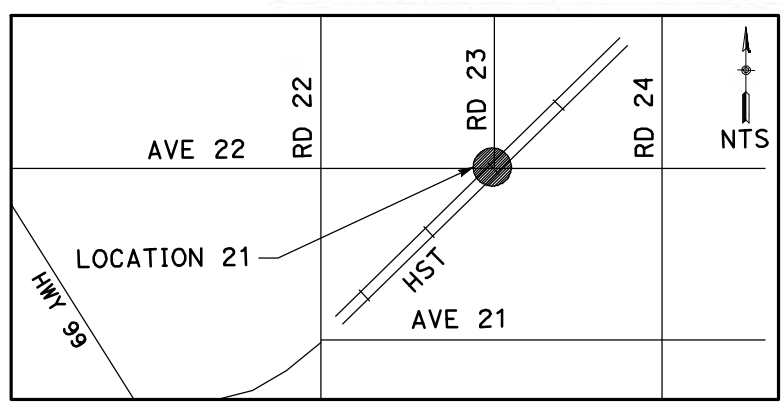
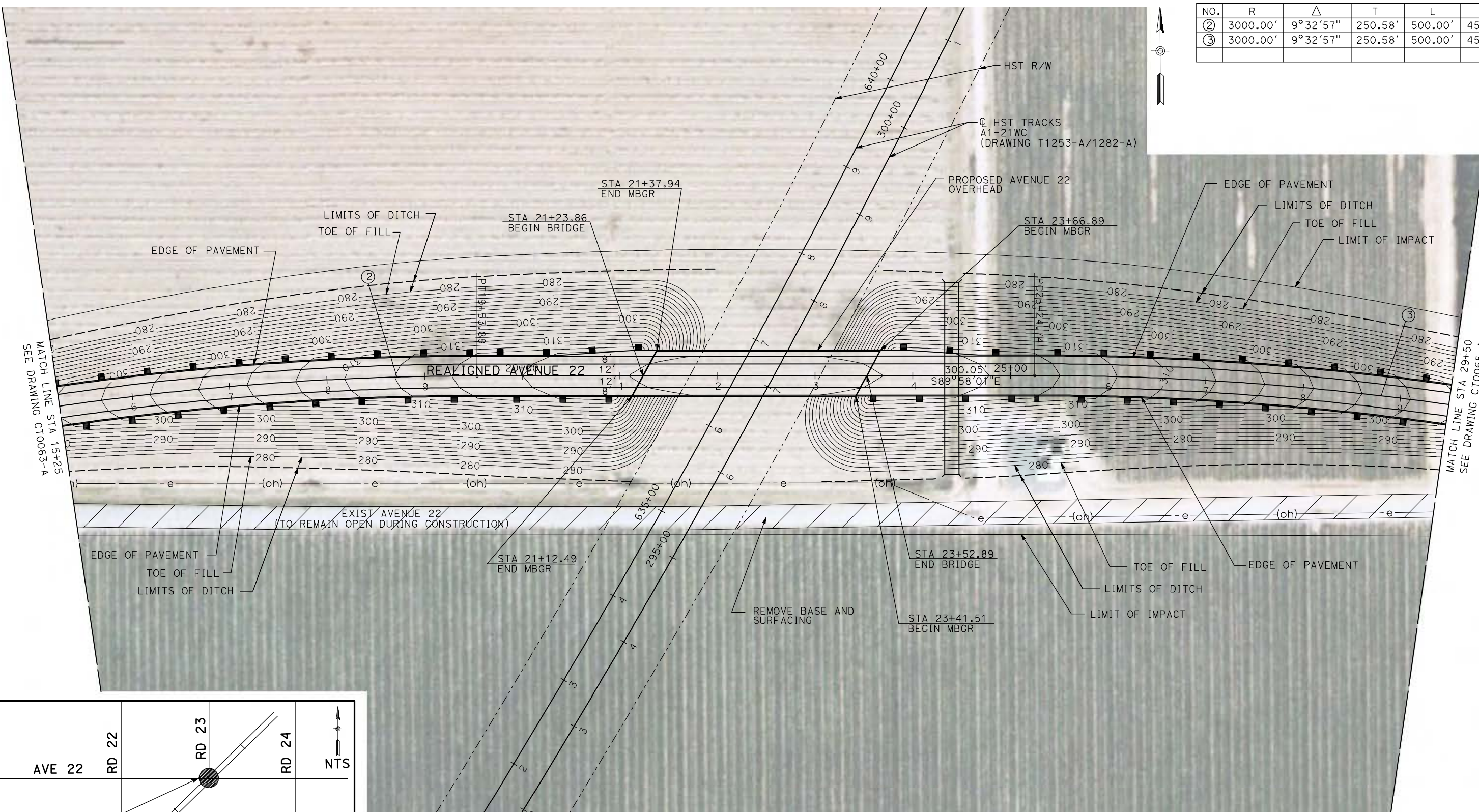


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF WYE CONNECTION - AVE 21 WYE
 GRADE SEPARATION - AVENUE 22
 LAYOUT
 SHEET 1 OF 3

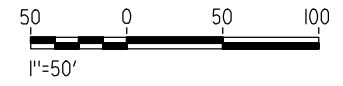
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0063-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 1:59:06 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0064-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 CT1060-A THROUGH CT1062-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



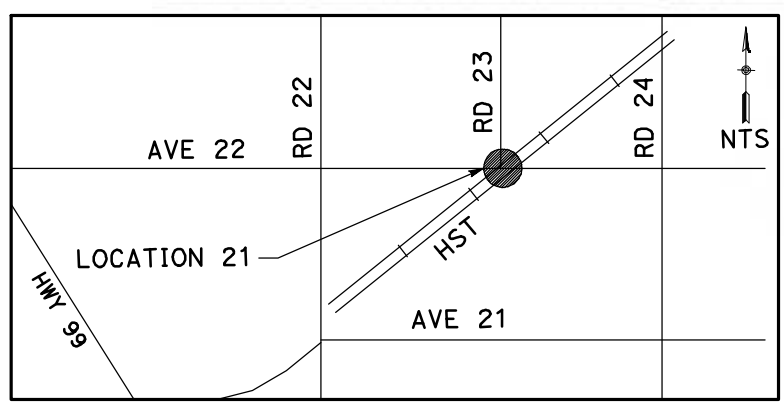
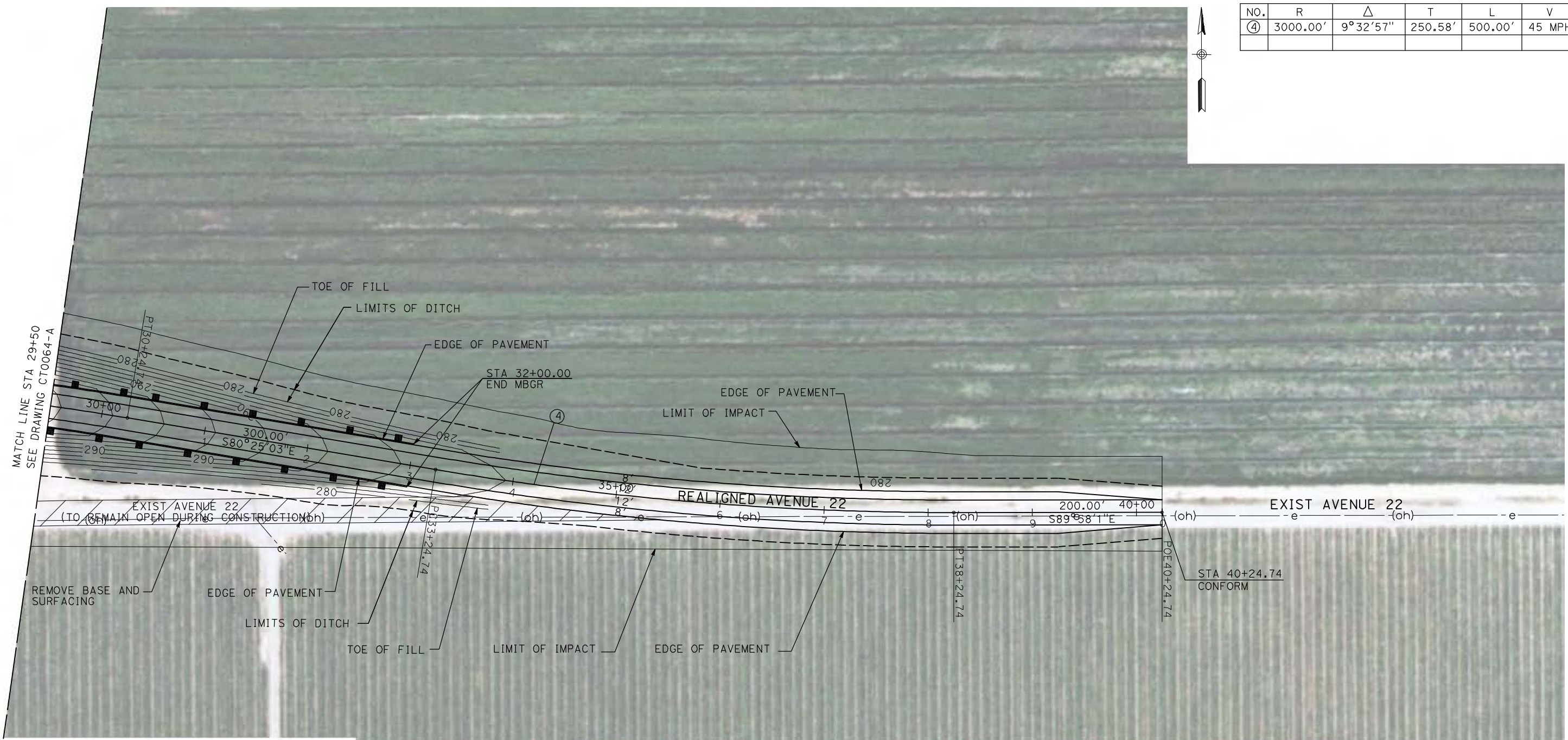
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE CONNECTION - AVE 21 WYE
 GRADE SEPARATION - AVENUE 22
 LAYOUT
 SHEET 2 OF 3

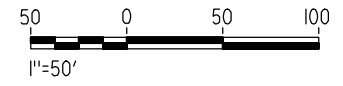
CONTRACT NO.
HSR06-007
 DRAWING NO.
CT0064-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 1:59:15 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0065-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 CT1060-A THROUGH CT1062-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



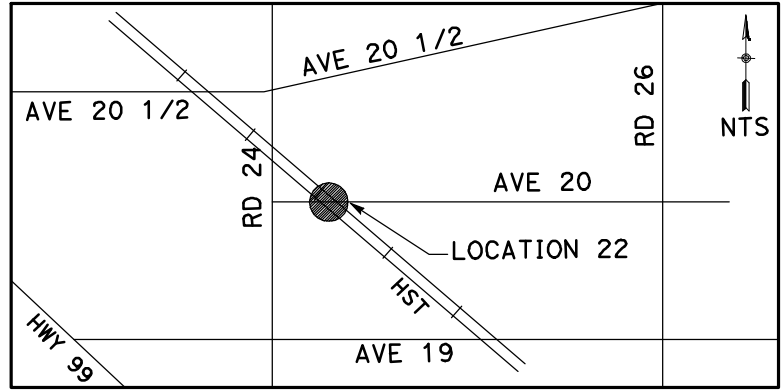
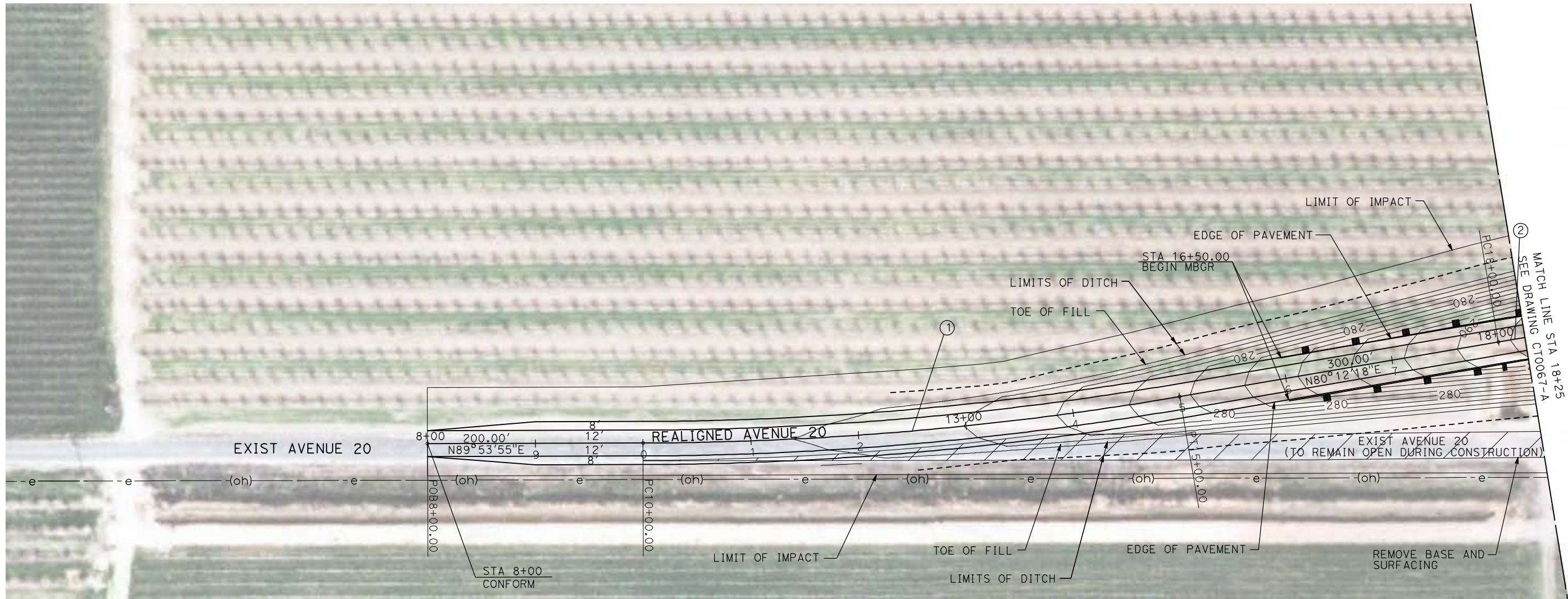
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE CONNECTION - AVE 21 WYE
GRADE SEPARATION - AVENUE 22
LAYOUT
SHEET 3 OF 3

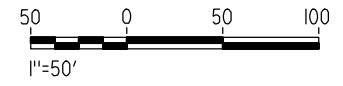
CONTRACT NO.
HST06-007
DRAWING NO.
CT0065-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:59:22 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0066-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 CT1063-A THROUGH CT1065-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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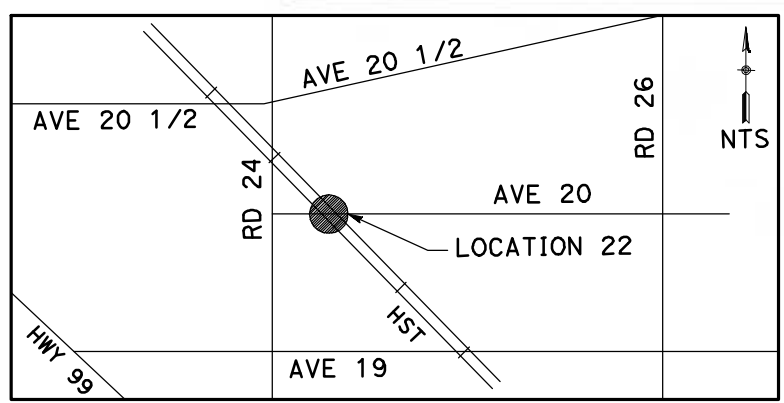
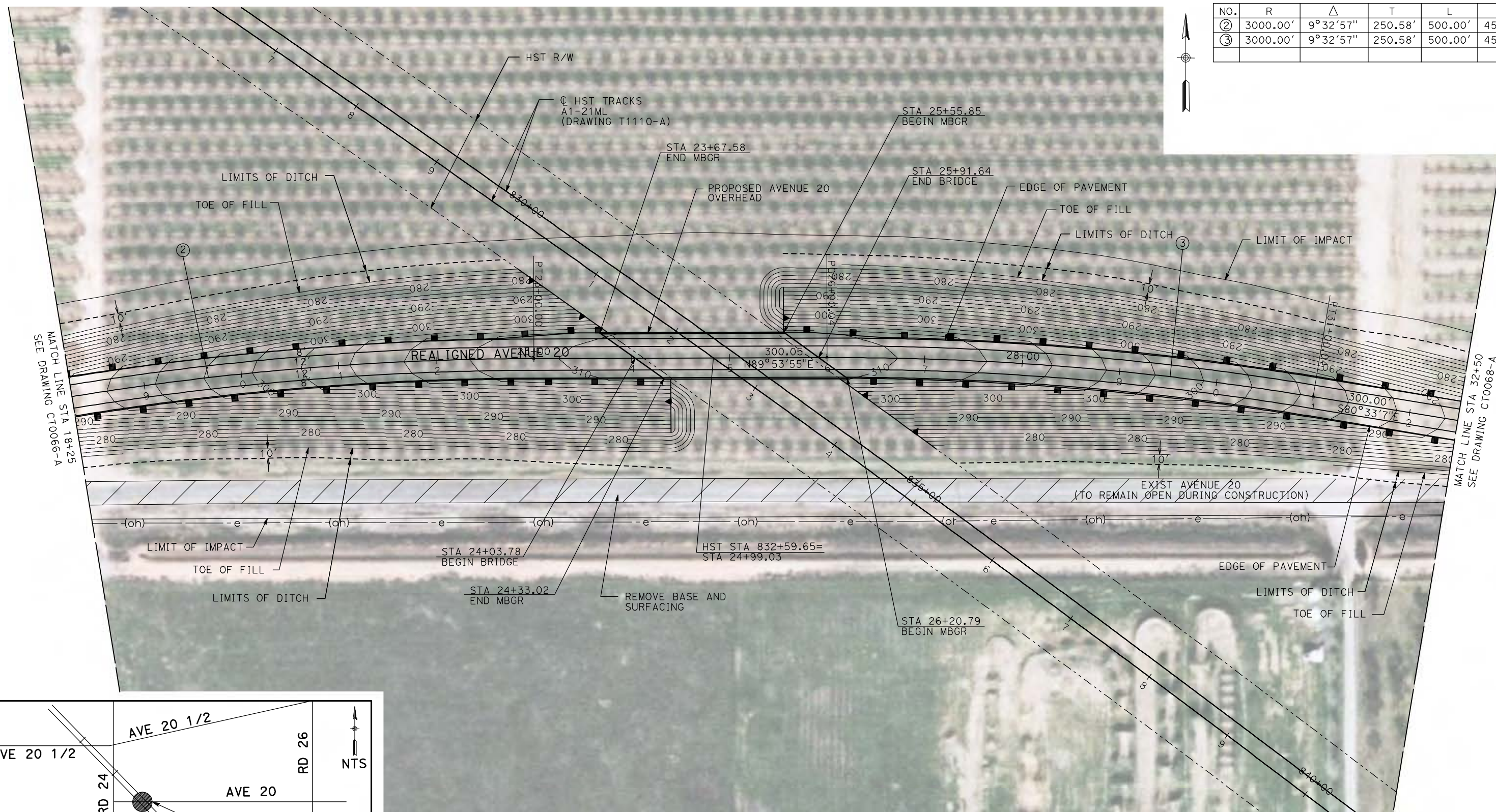


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 20
LAYOUT
SHEET 1 OF 3

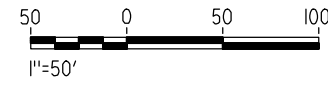
CONTRACT NO.
HSR06-007
DRAWING NO.
CT0066-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:59:29 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0067-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 CT1063-A THROUGH CT1065-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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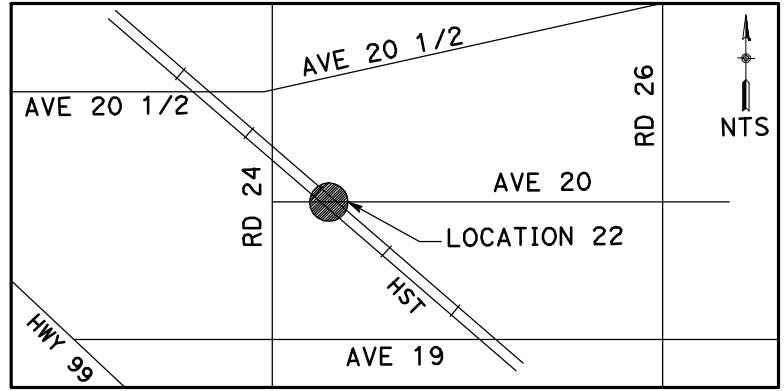
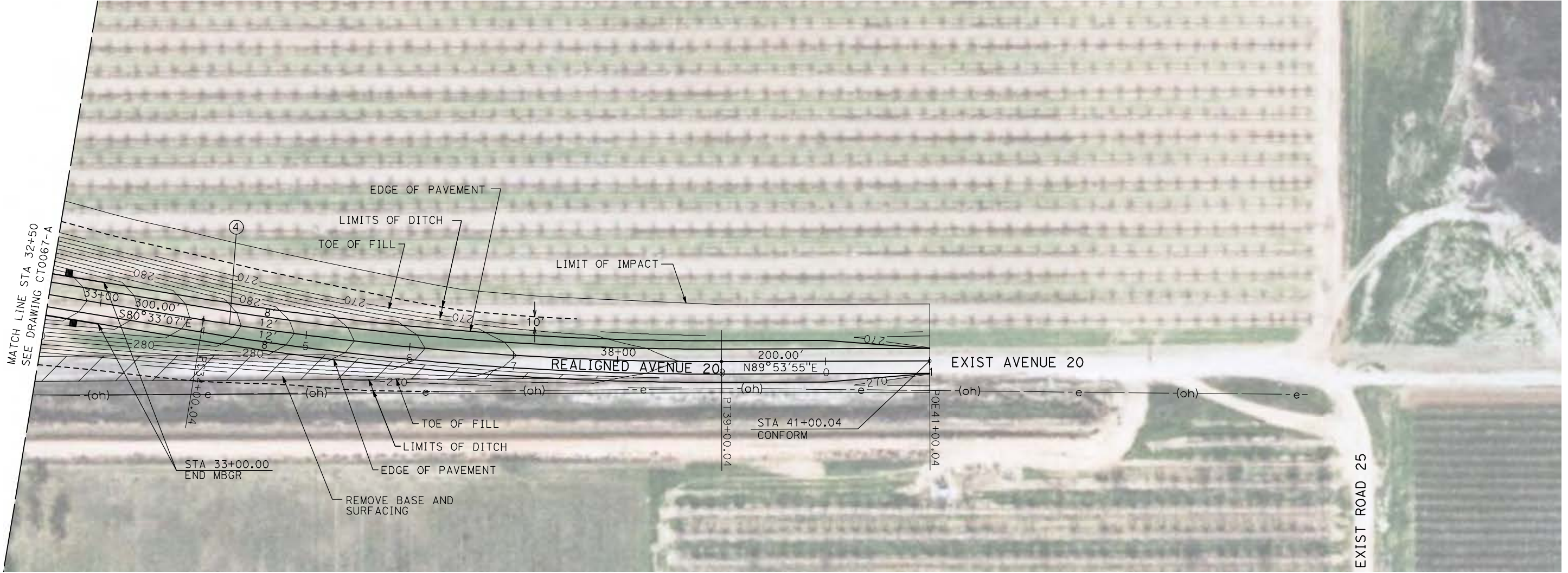
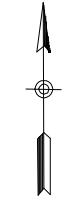
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 20
LAYOUT
SHEET 2 OF 3

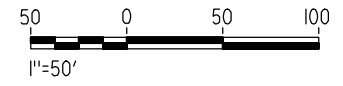
CONTRACT NO.
HST06-007
DRAWING NO.
CT0067-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:59:38 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0068-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 CT1063-A THROUGH CT1065-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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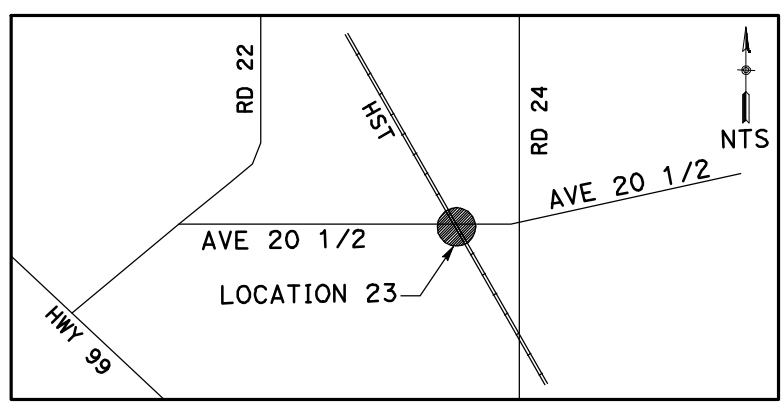
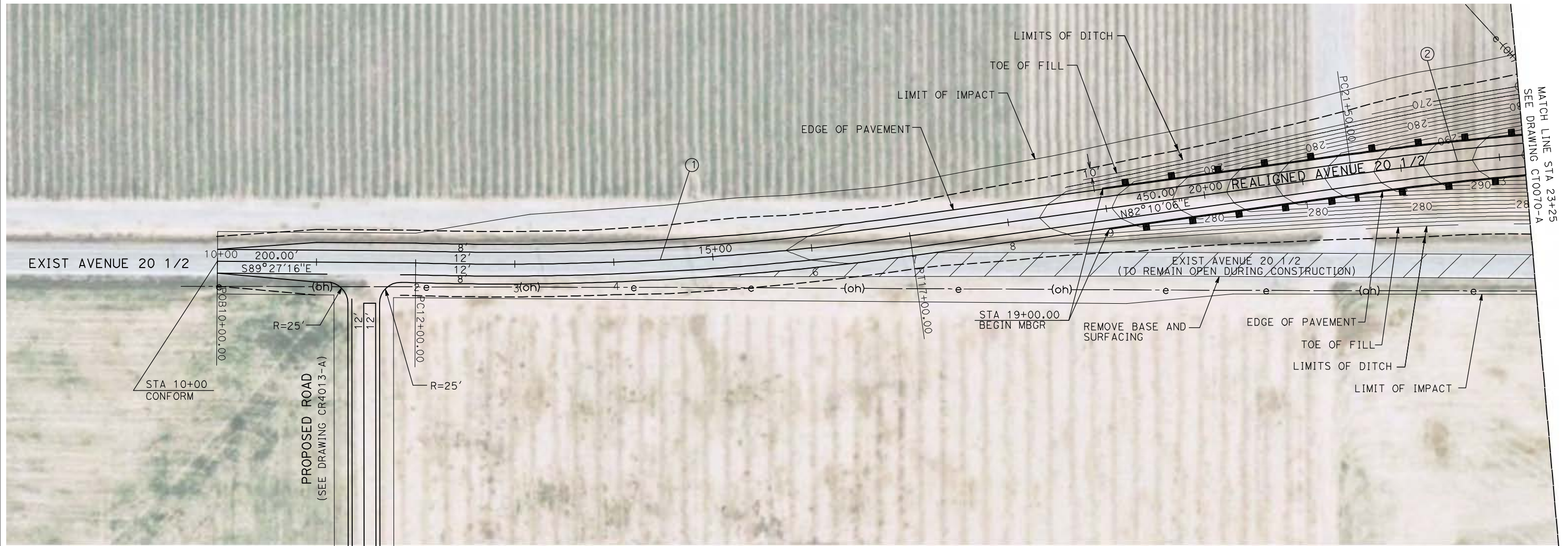
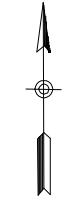
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 20
LAYOUT
SHEET 3 OF 3

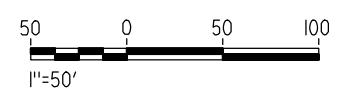
CONTRACT NO.
HSR06-007
DRAWING NO.
CT0068-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:59:44 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0069-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3500.00'	8°11'06"	250.43'	500.00'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1066-A THROUGH CT1068-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

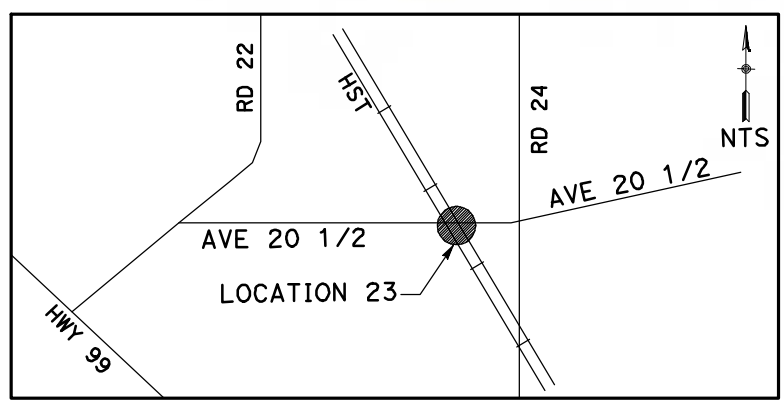
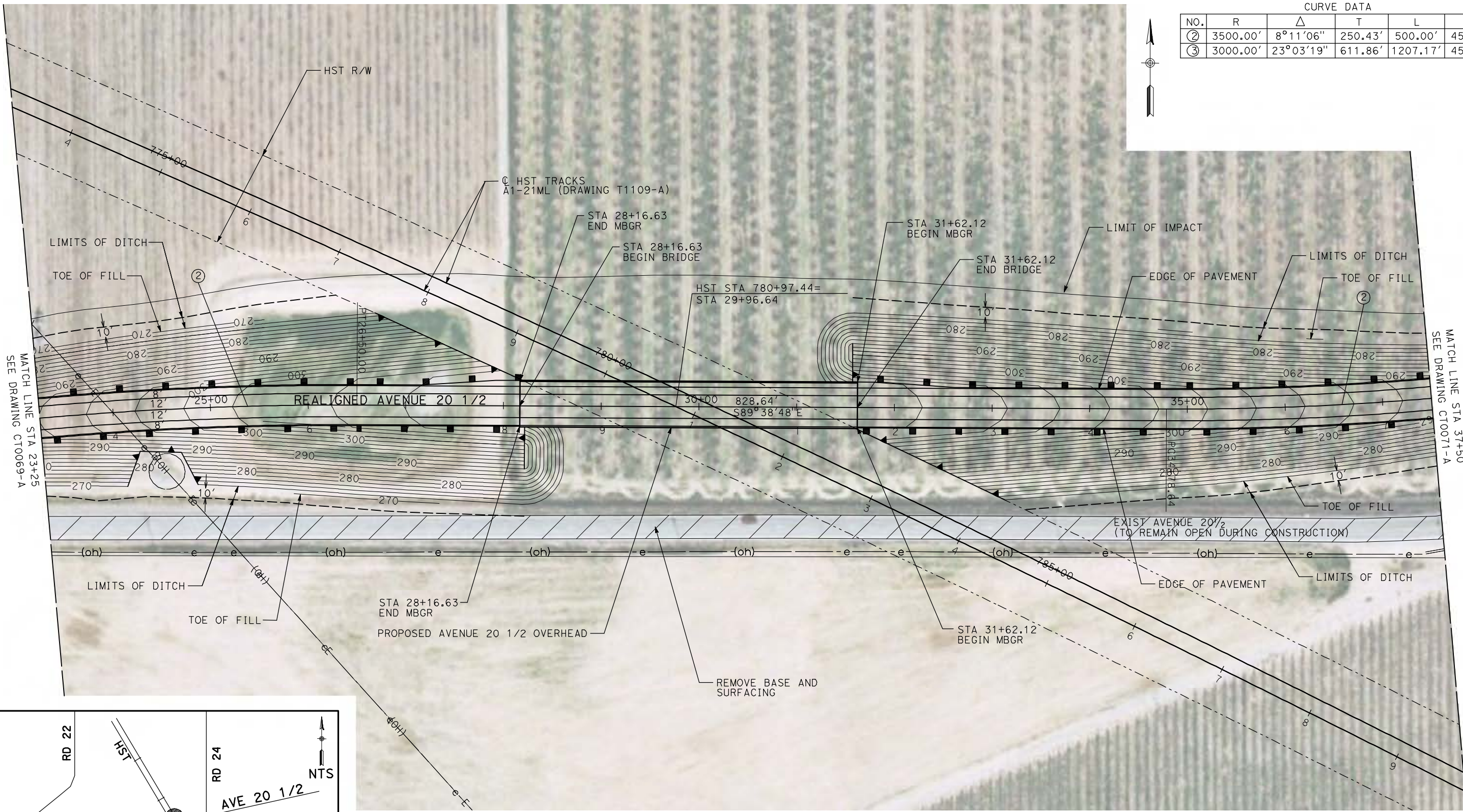


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 20 1/2
LAYOUT
SHEET 1 OF 3

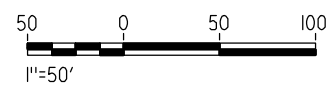
CONTRACT NO.
HST06-007
DRAWING NO.
CT0069-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 1:59:51 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0070-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
②	3500.00'	8°11'06"	250.43'	500.00'	45 MPH
③	3000.00'	23°03'19"	611.86'	1207.17'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1066-A THROUGH CT1068-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

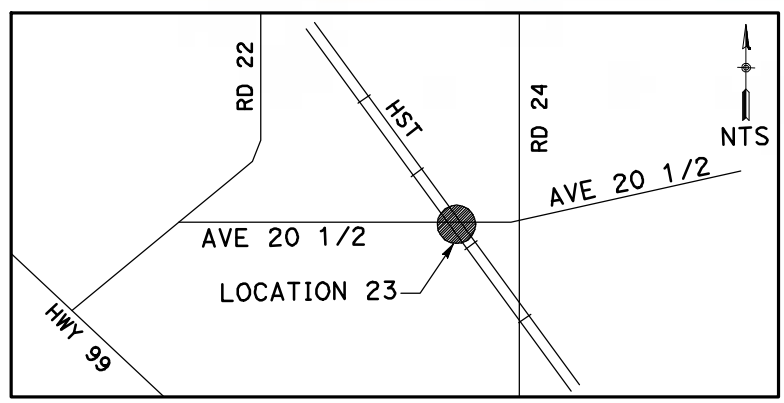
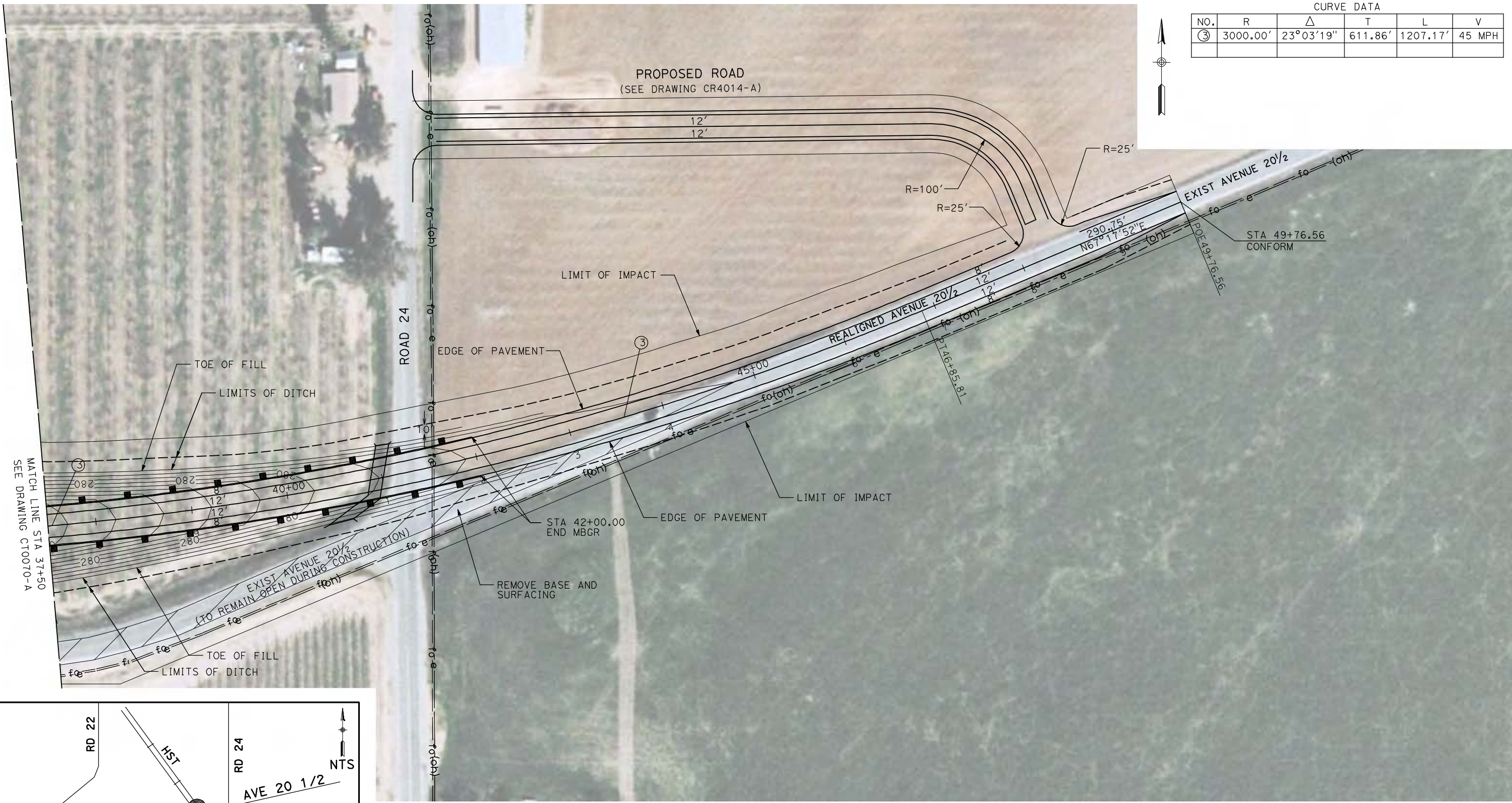


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 20 1/2
 LAYOUT
 SHEET 2 OF 3

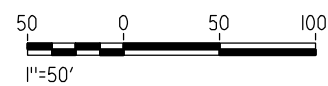
CONTRACT NO.
HSR06-007
 DRAWING NO.
CT0070-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 1:59:58 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0071-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
③	3000.00'	23°03'19"	611.86'	1207.17'	45 MPH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1066-A THROUGH CT1068-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 21 WYE
GRADE SEPARATION - AVENUE 20 1/2
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007

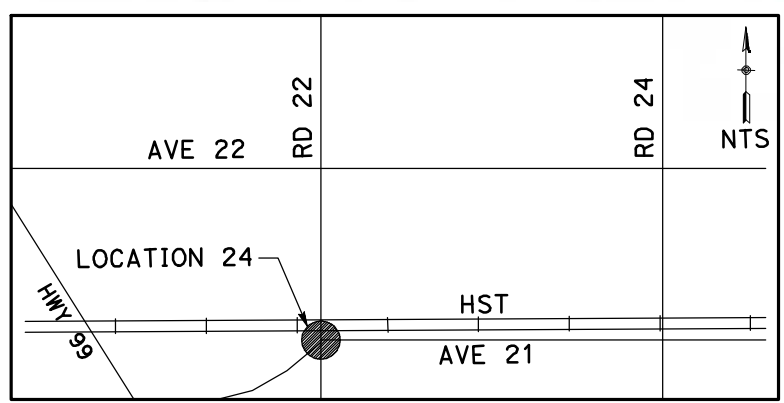
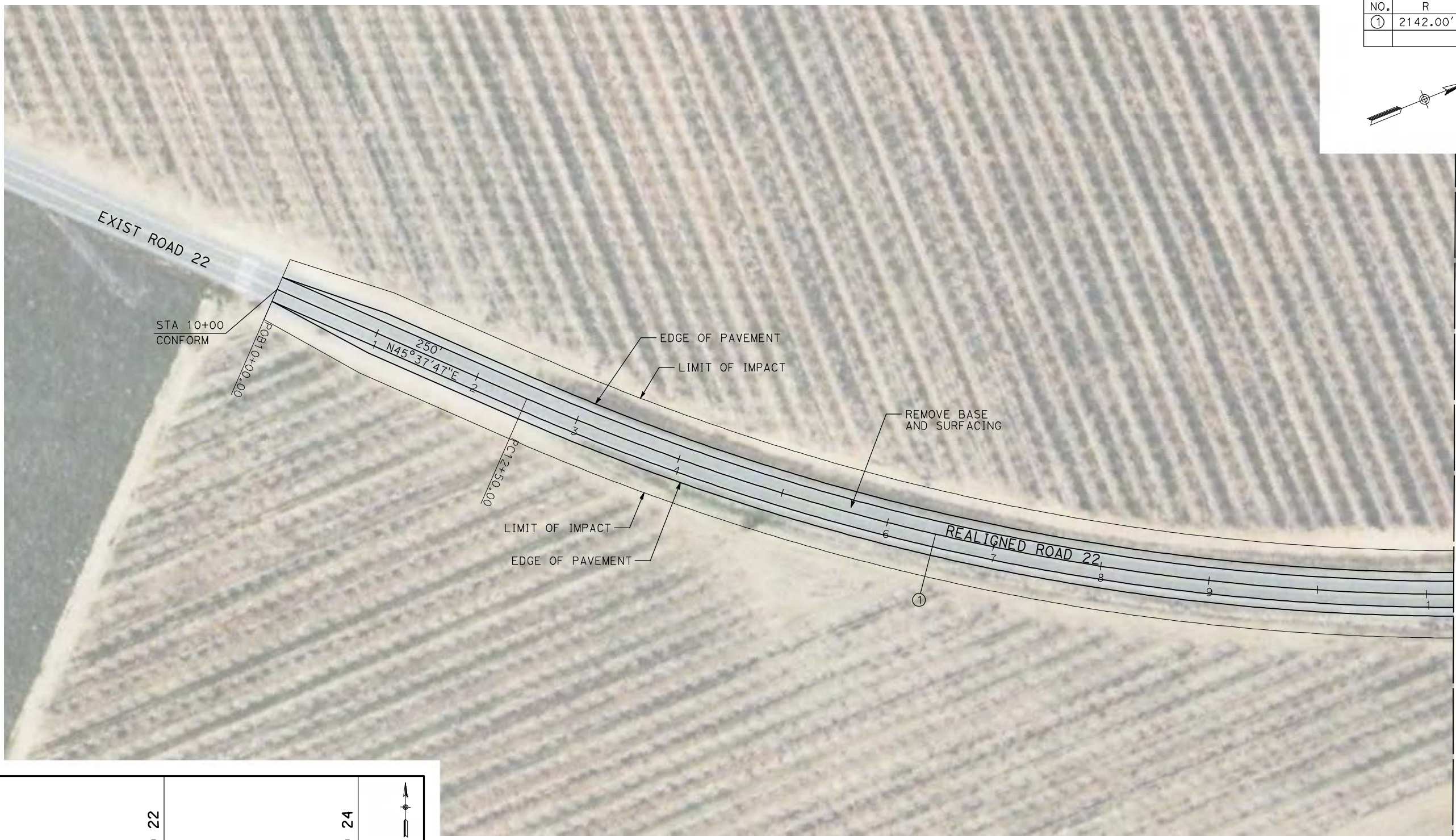
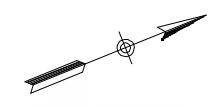
DRAWING NO.
CT0071-A

SCALE
AS SHOWN

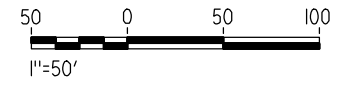
SHEET NO.
OF

4/29/2011 2:00:05 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\MF-CT-0073-A.dgn

CURVE DATA					
NO.	R	Δ	T	L	V
①	2142.00'	24°59'51"	474.82'	934.53'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1069-A THROUGH CT1071-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

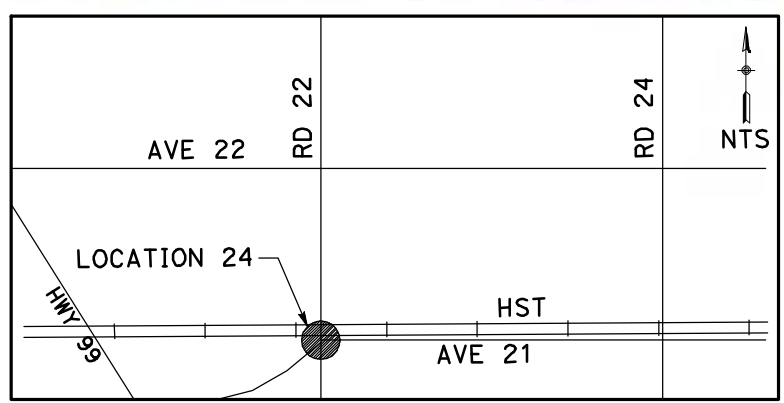
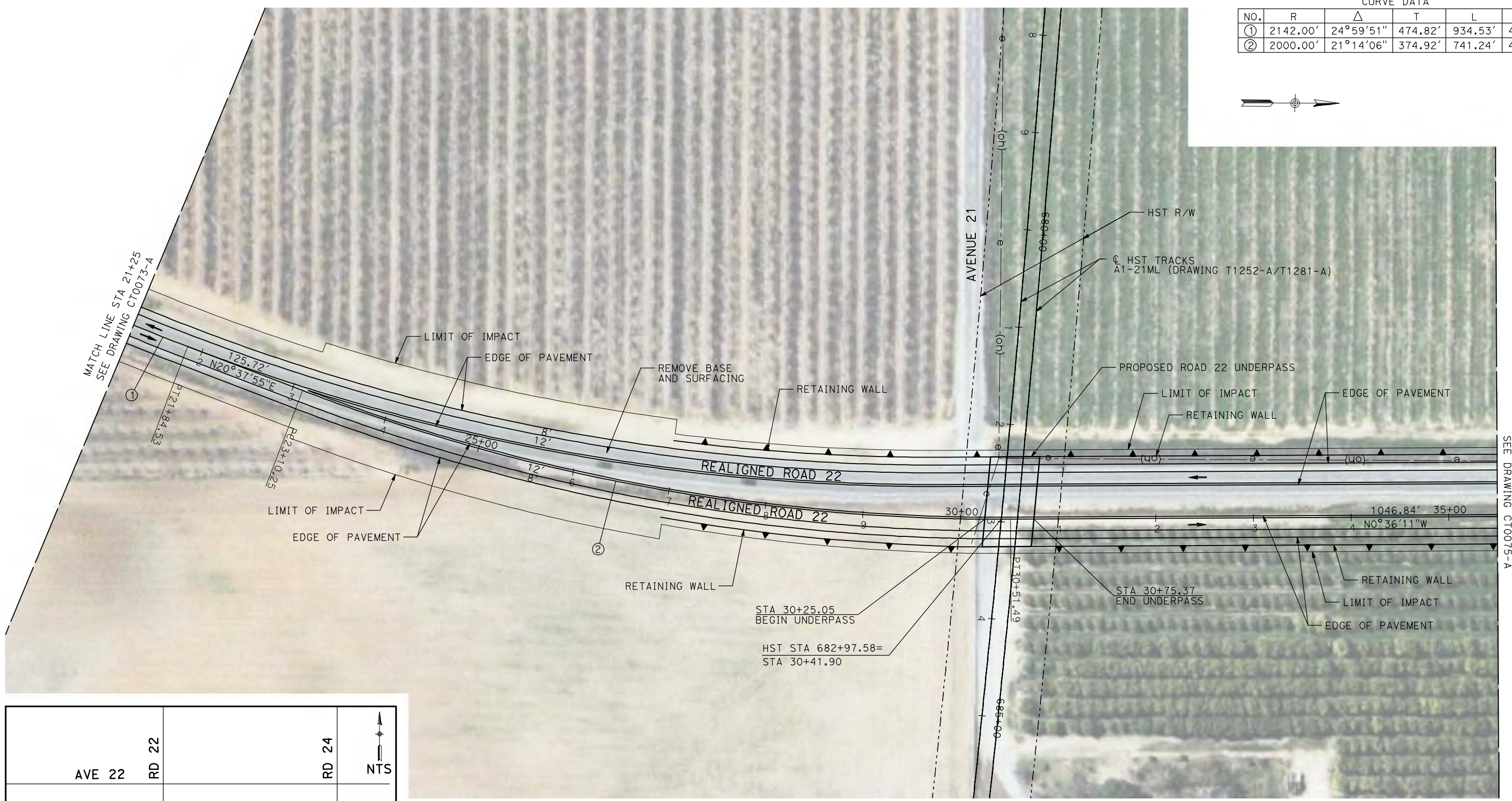
NOT FOR
CONSTRUCTION



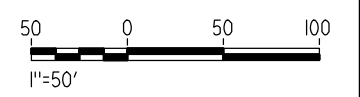
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 UNDERPASS - ROAD 22
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0073-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
①	2142.00'	24°59'51"	474.82'	934.53'	45 MPH
②	2000.00'	21°14'06"	374.92'	741.24'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1069-A THROUGH CT1071-A.



4/29/2011 2:00:11 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0074-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

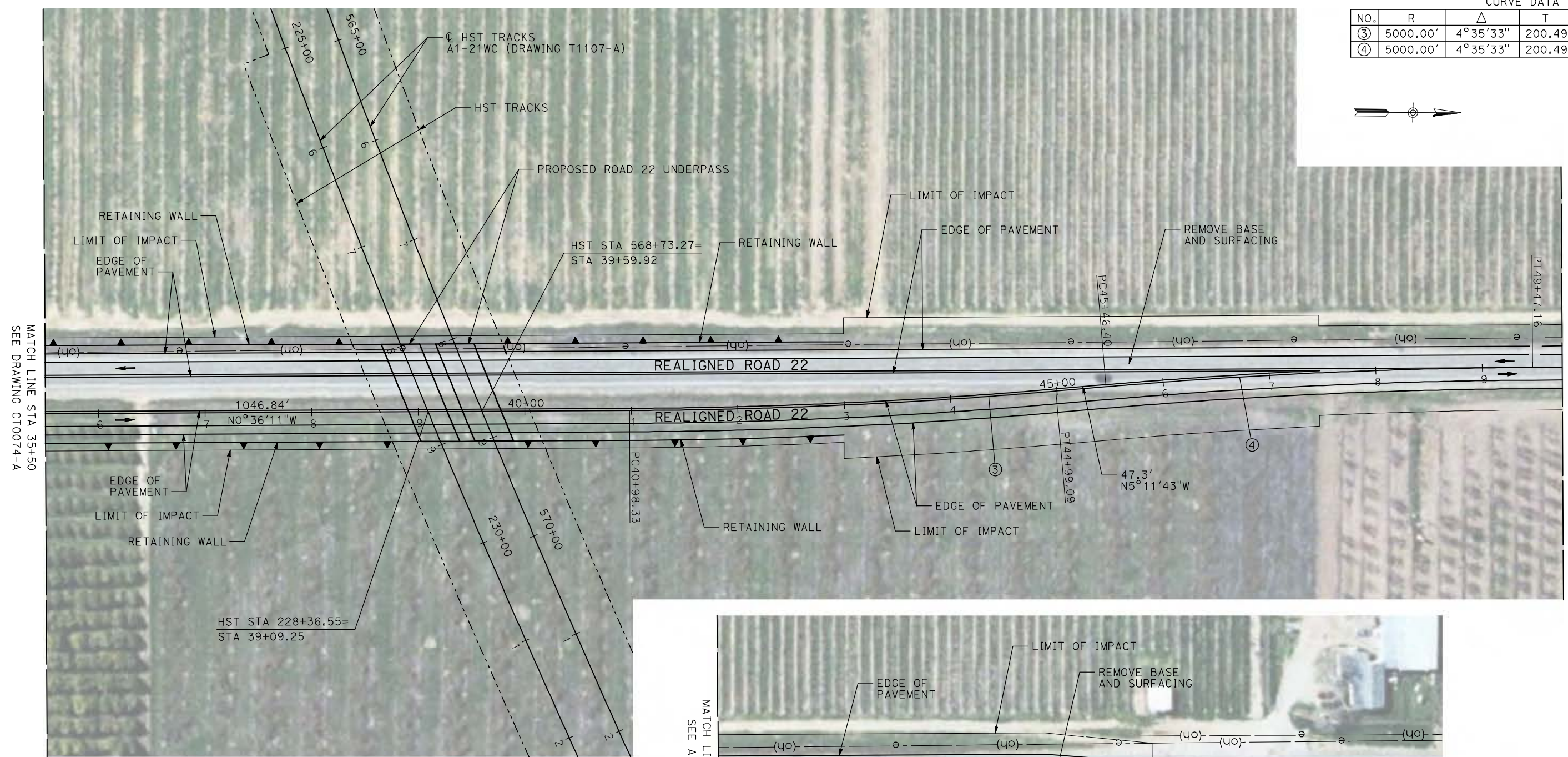
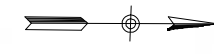


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 UNDERPASS - ROAD 22
 LAYOUT
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT0074-A
 SCALE
AS SHOWN
 SHEET NO.
OF

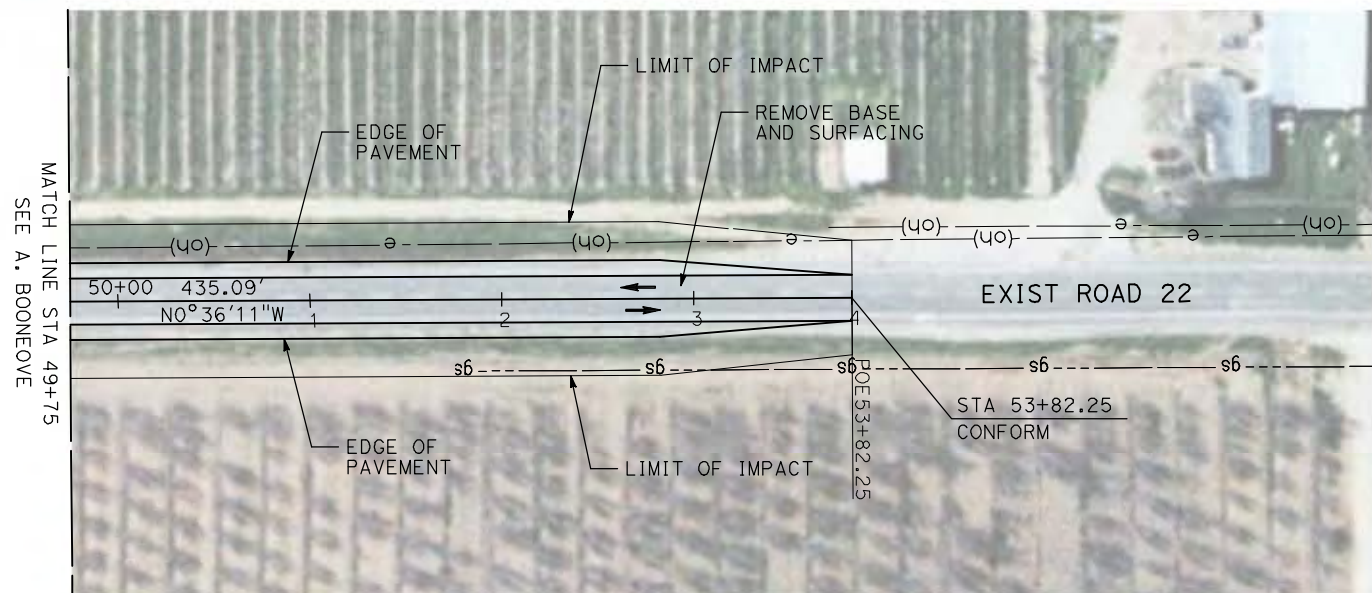
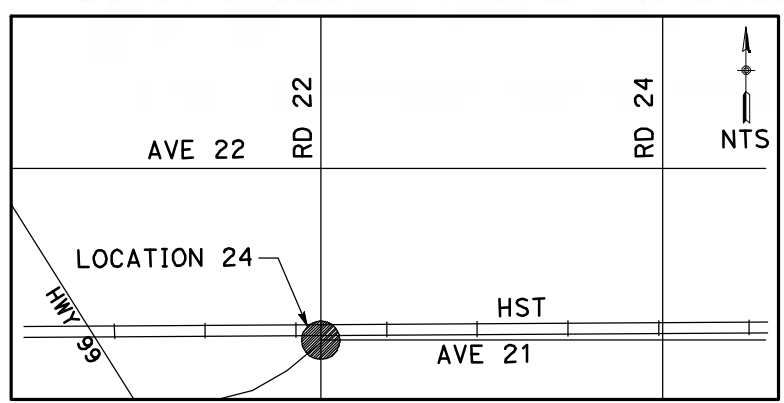
CURVE DATA

NO.	R	Δ	T	L	V
③	5000.00'	4°35'33"	200.49'	400.76'	45 MPH
④	5000.00'	4°35'33"	200.49'	400.76'	45 MPH

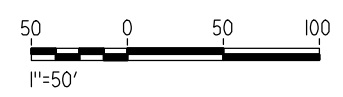


MATCH LINE STA 35+50
SEE DRAWING CT0074-A

MATCH LINE STA 49+75
SEE BELOW



MATCH LINE STA 49+75
SEE A. BOONEOVE



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1069-A THROUGH CT1071-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

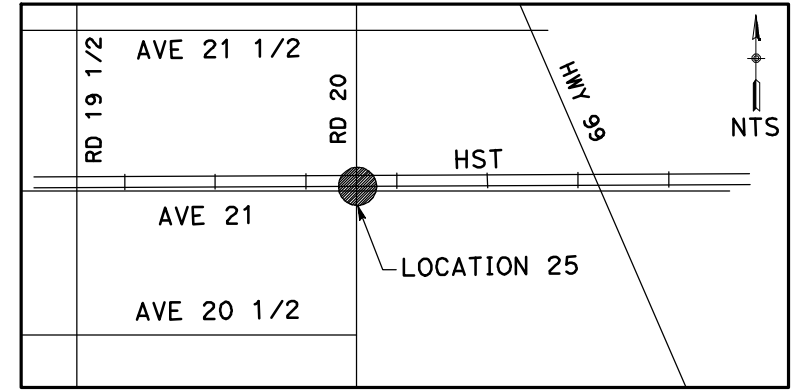
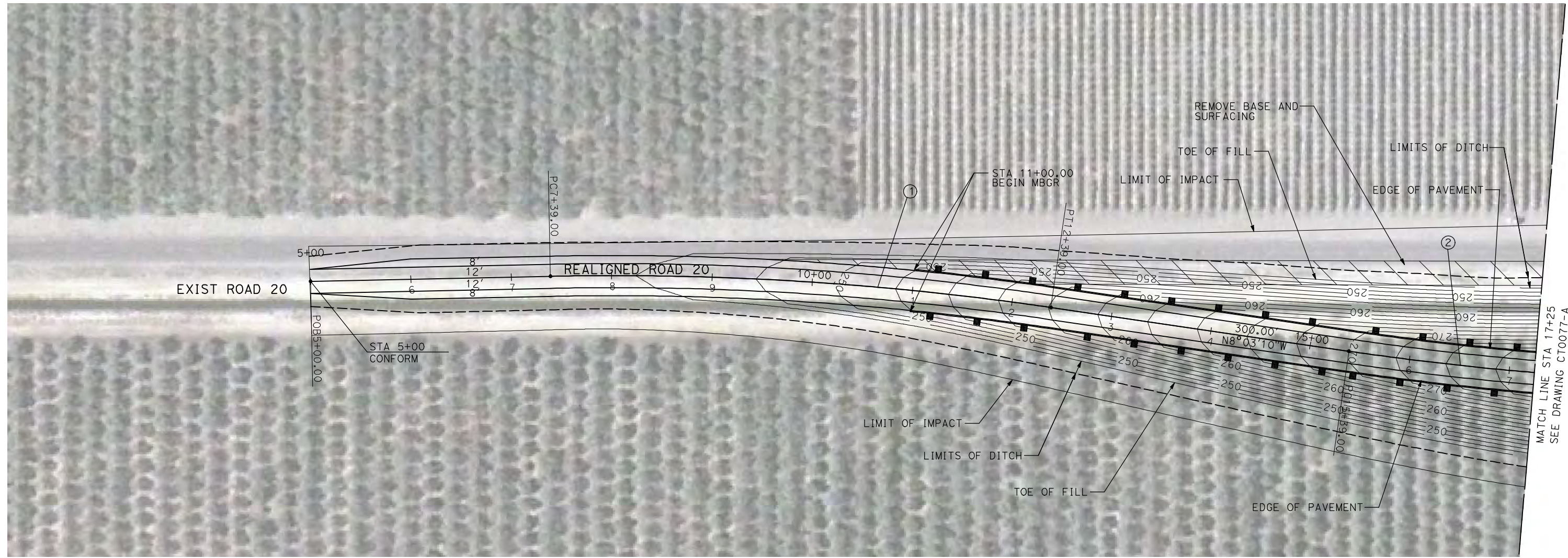


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - ROAD 22
LAYOUT
SHEET 3 OF 3

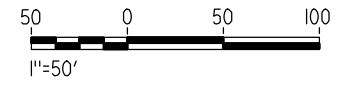
CONTRACT NO.
HSR06-007
DRAWING NO.
CT0075-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:00:18 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0075-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 CT1072-A THROUGH CT1074-A.



4/29/2011 2:00:24 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0076-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

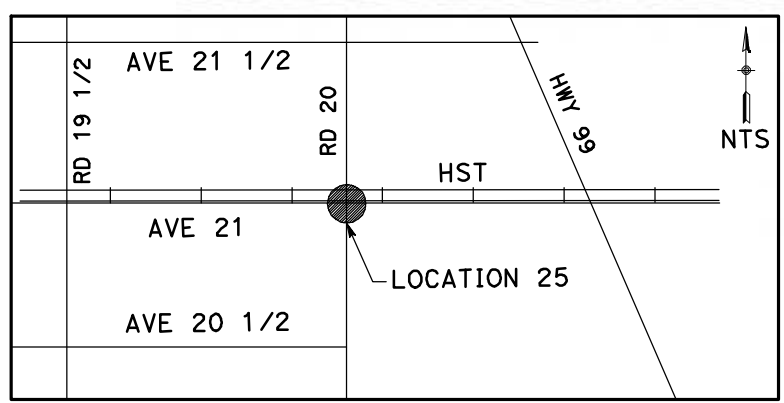
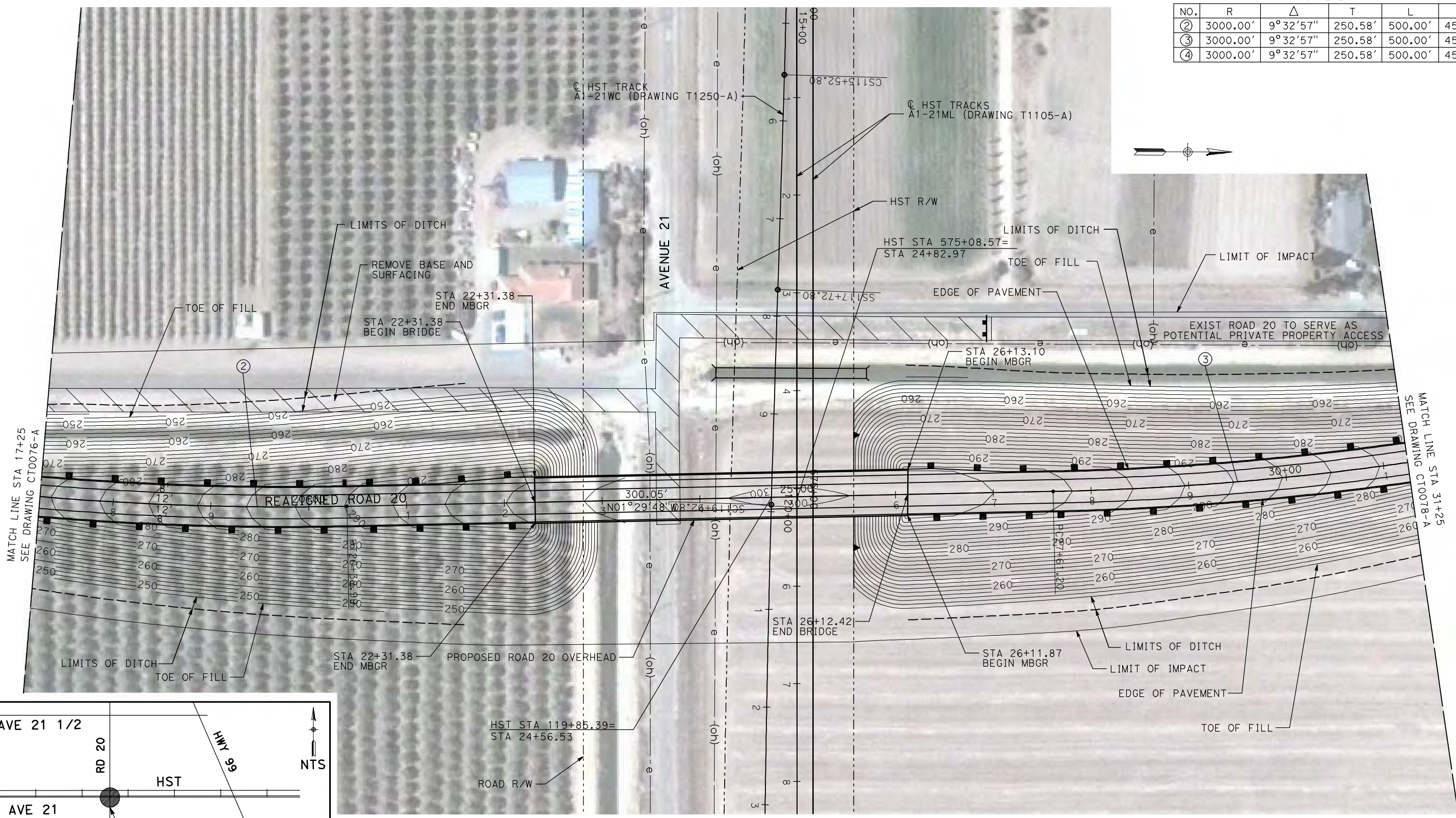


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 20
 LAYOUT
 SHEET 1 OF 3

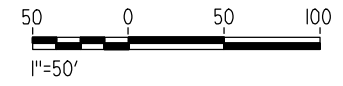
CONTRACT NO.
HSR06-007
 DRAWING NO.
CT0076-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:00:31 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0077-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
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:
 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1072-A THROUGH CT1074-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

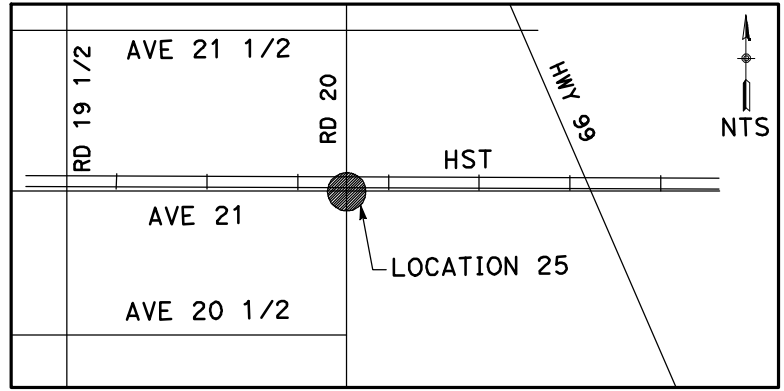
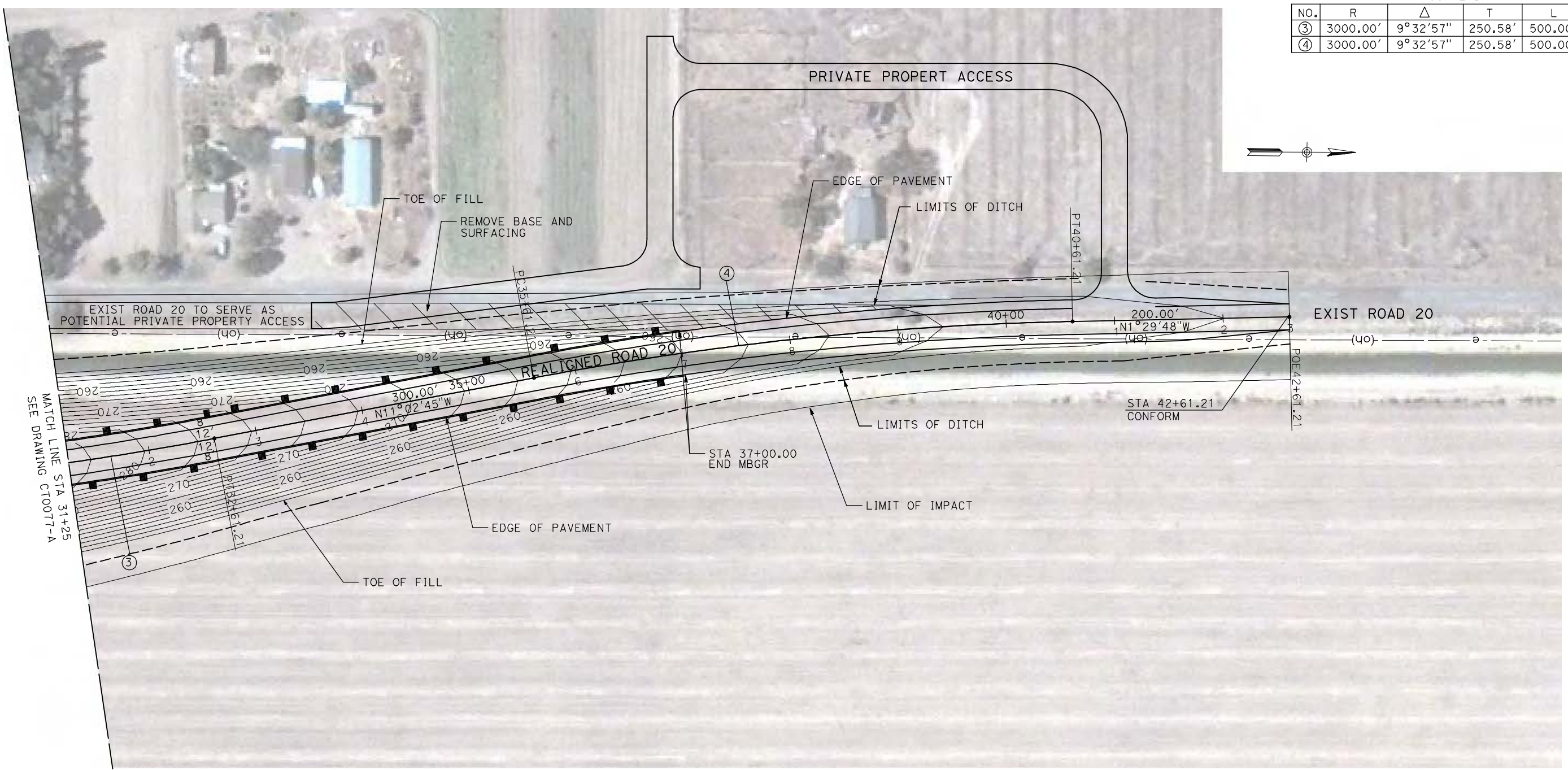


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 20
 LAYOUT
 SHEET 2 OF 3

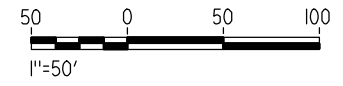
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0077-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:00:40 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0078-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 CT1072-A THROUGH CT1074-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

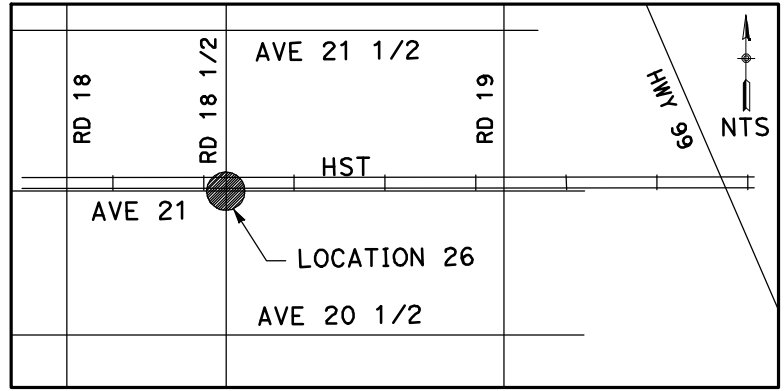
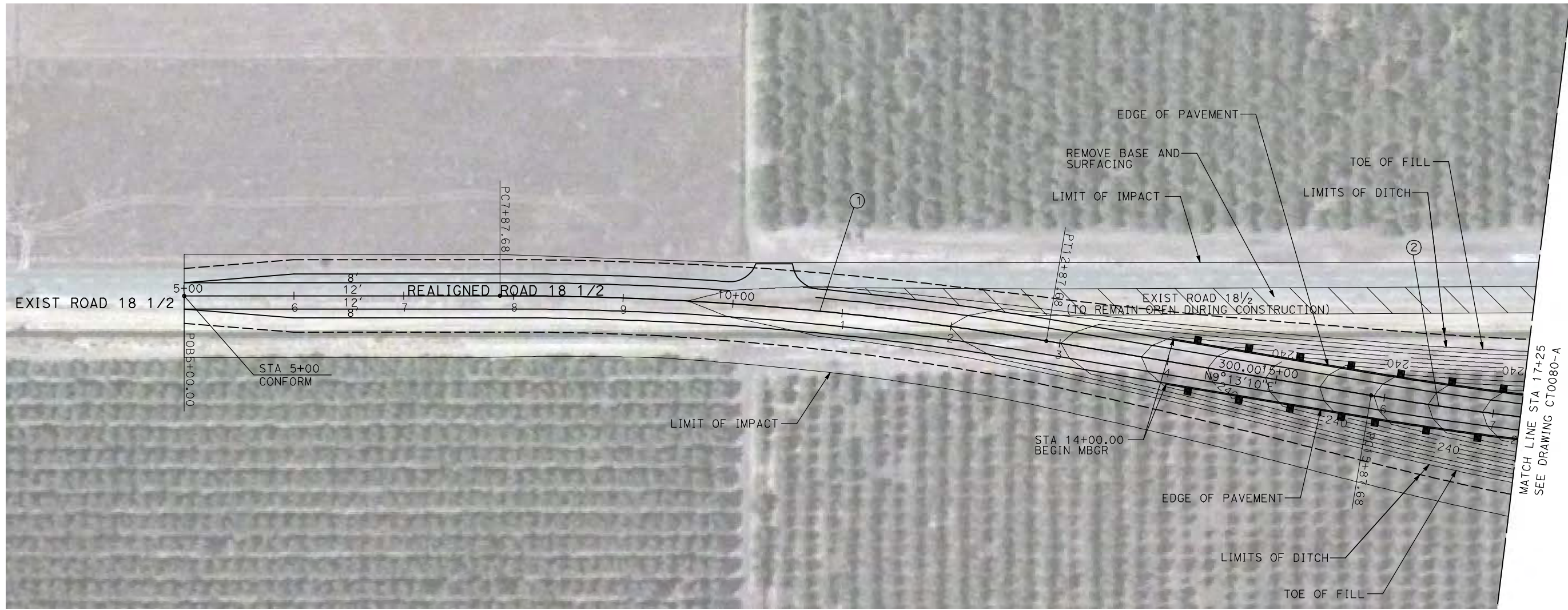
NOT FOR
CONSTRUCTION



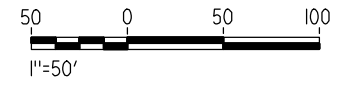
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 20
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0078-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 CT1075-A THROUGH CT1077-A.



4/29/2011 2:00:47 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0079-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

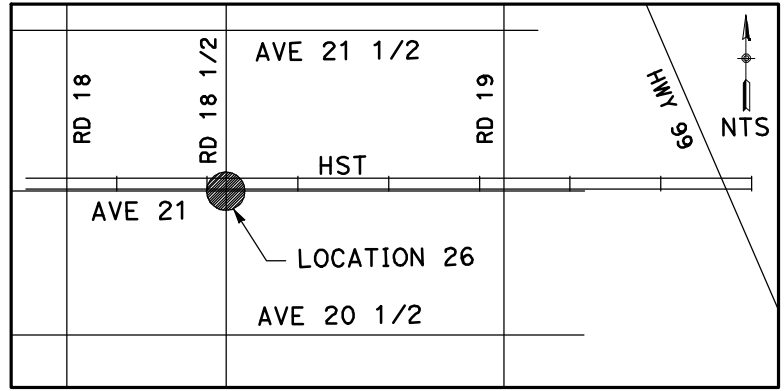
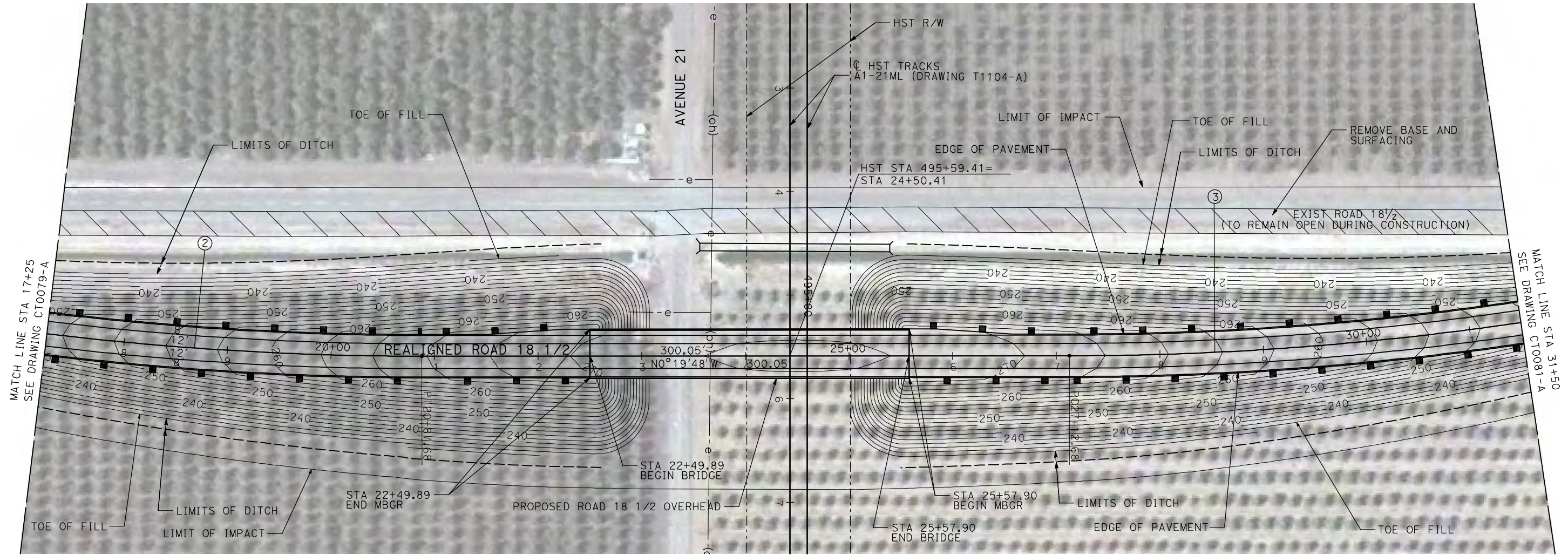


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

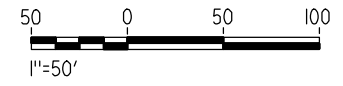
BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 18 1/2
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HST06-007
 DRAWING NO.
CT0079-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 CT1075-A THROUGH CT1077-A.



4/29/2011 2:00:53 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0080-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

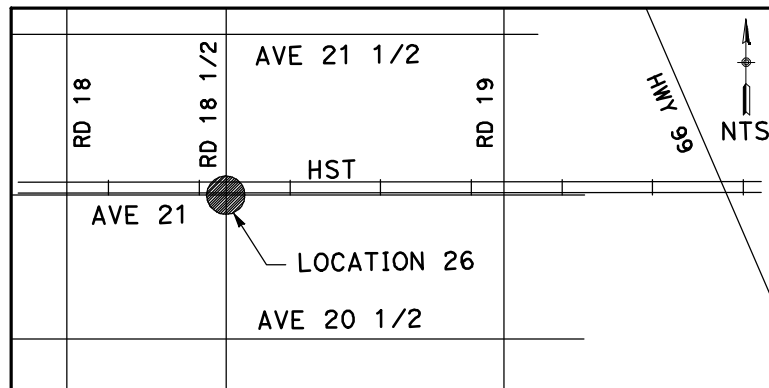
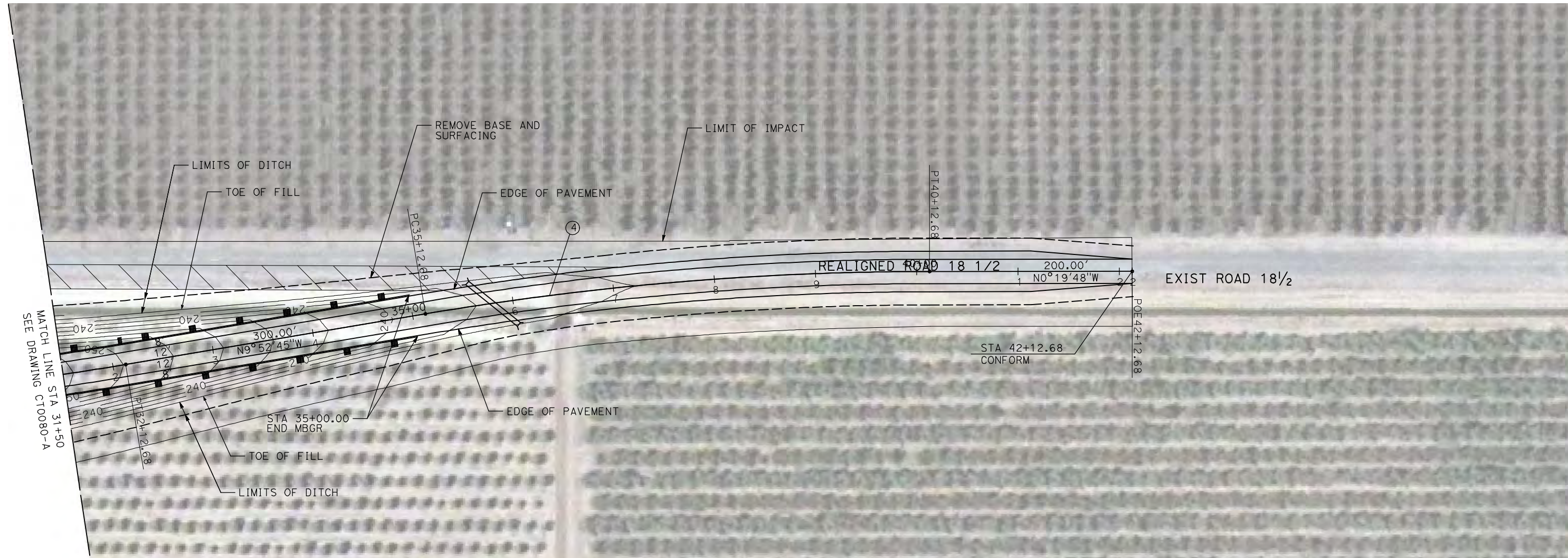


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 18 1/2
LAYOUT
SHEET 2 OF 3

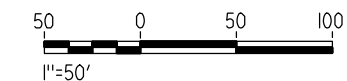
CONTRACT NO.
HSR06-007
DRAWING NO.
CT0080-A
SCALE
AS SHOWN
SHEET NO.
OF

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 CT1075-A THROUGH CT1077-A.



4/29/2011 2:01:01 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0081-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

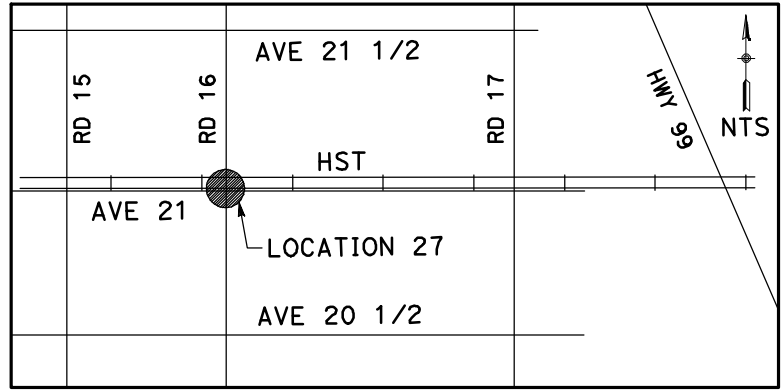
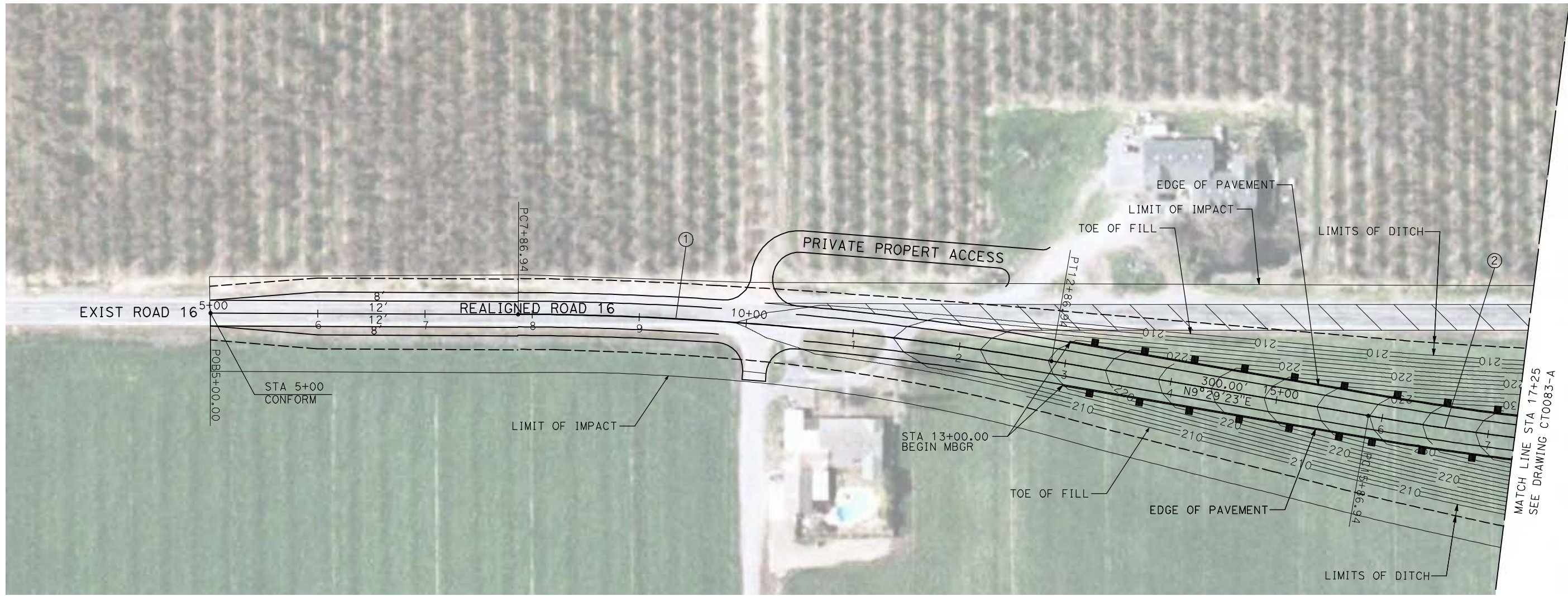
NOT FOR
CONSTRUCTION



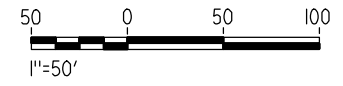
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 18 1/2
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0081-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 CT1078-A THROUGH CT1080-A.



4/29/2011 2:01:08 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0082-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

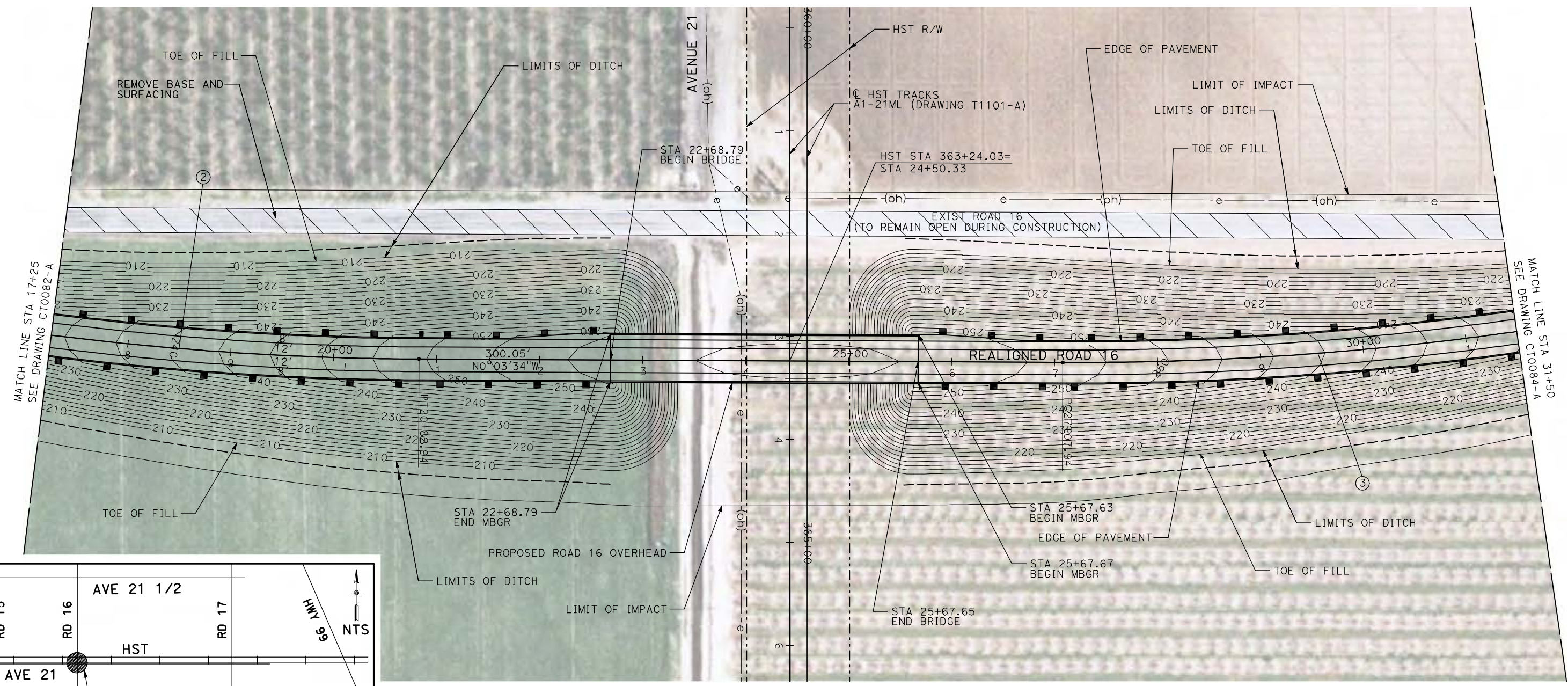


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 16
 LAYOUT
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT0082-A
 SCALE
AS SHOWN
 SHEET NO.
OF

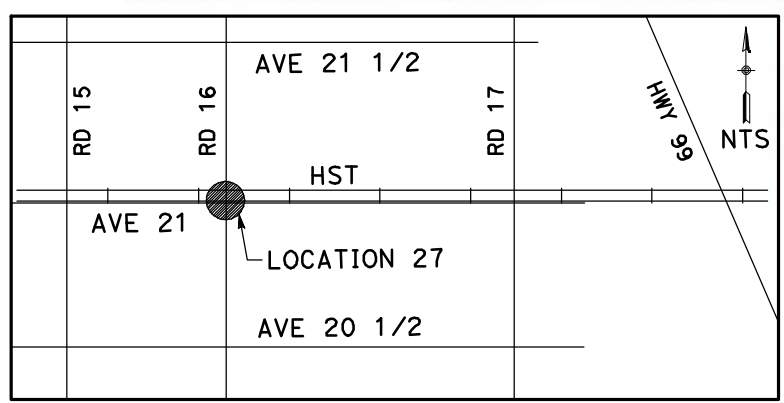
CURVE DATA

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

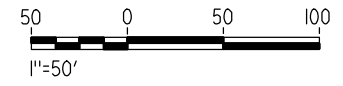


MATCH LINE STA 17+25
SEE DRAWING CT0082-A

MATCH LINE STA 31+50
SEE DRAWING CT0084-A



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1078-A THROUGH CT1080-A.



4/29/2011 2:01:14 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0083-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

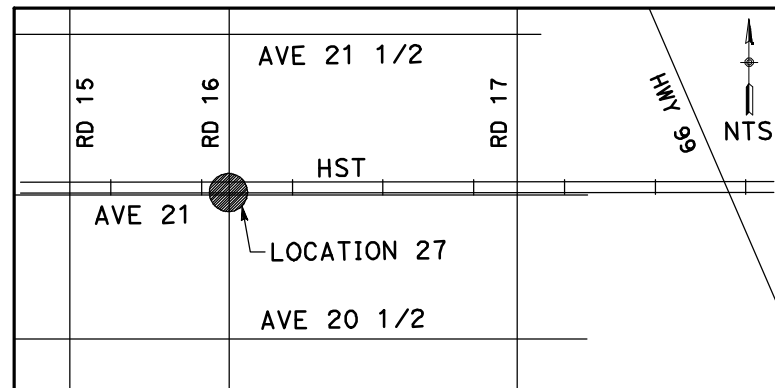
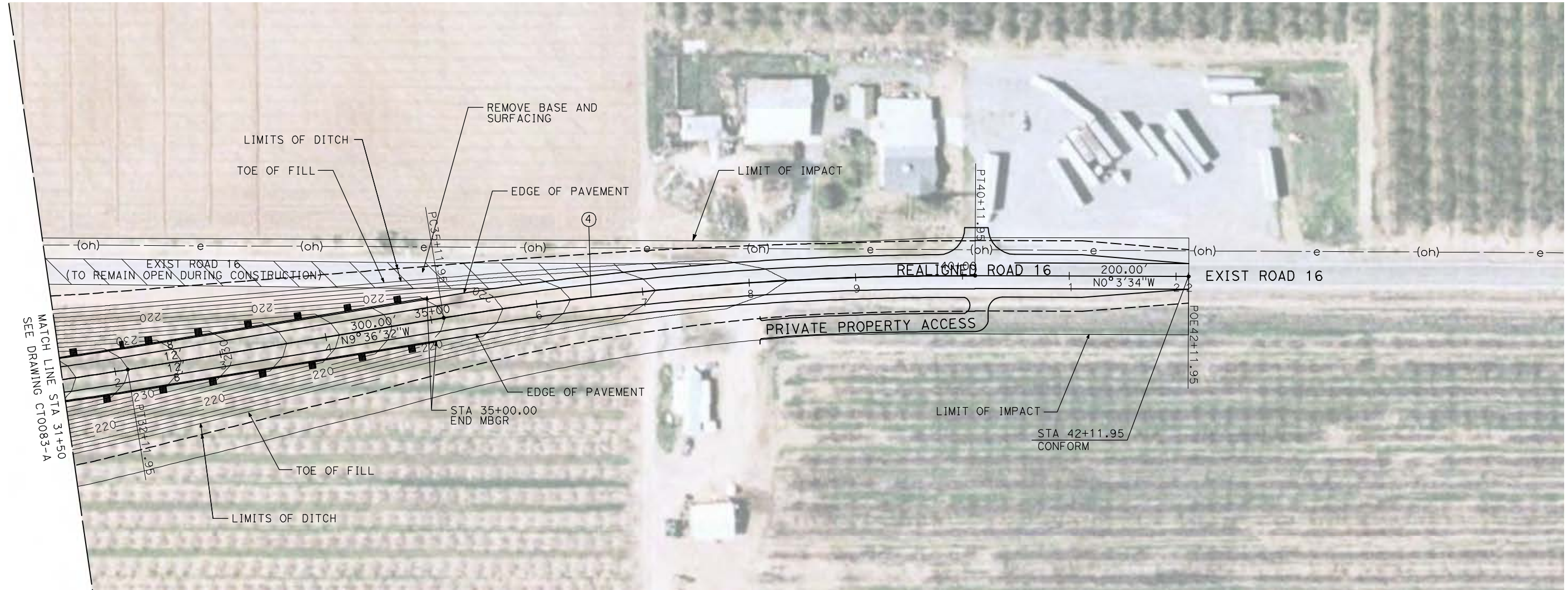
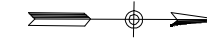
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0083-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 CT1078-A THROUGH CT1080-A.



4/29/2011 2:01:23 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\volume 1a - ave 21 wye grade separation\layout\WF-CT-0084-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**

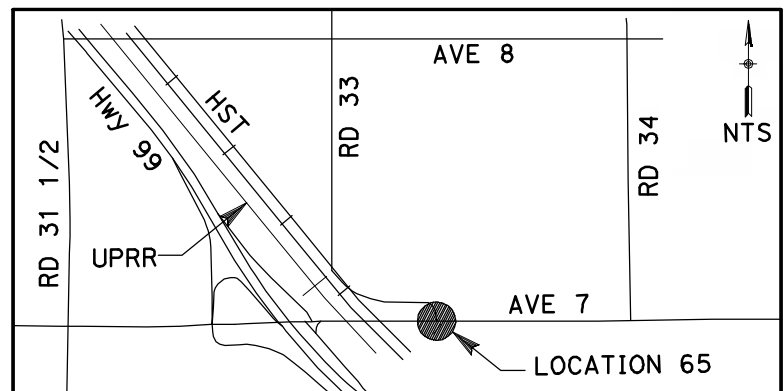
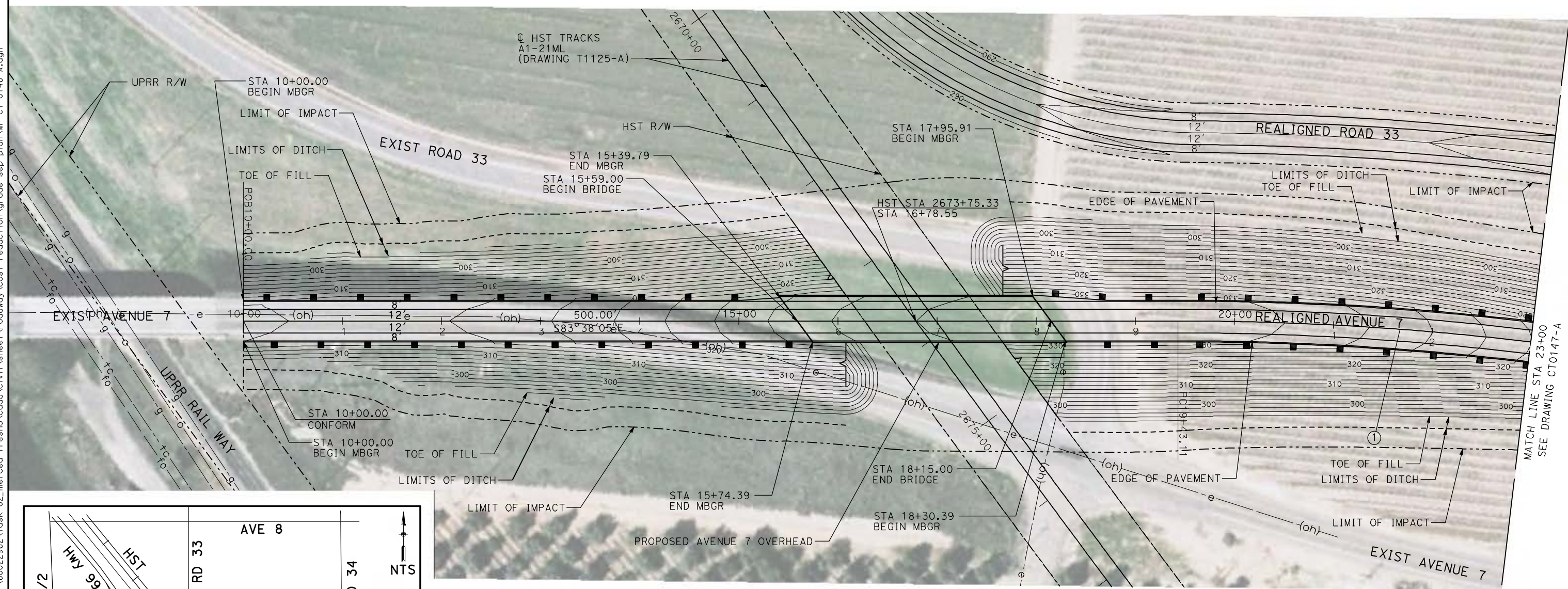
**NOT FOR
CONSTRUCTION**



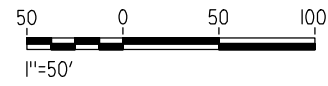
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0084-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 2:07:29 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

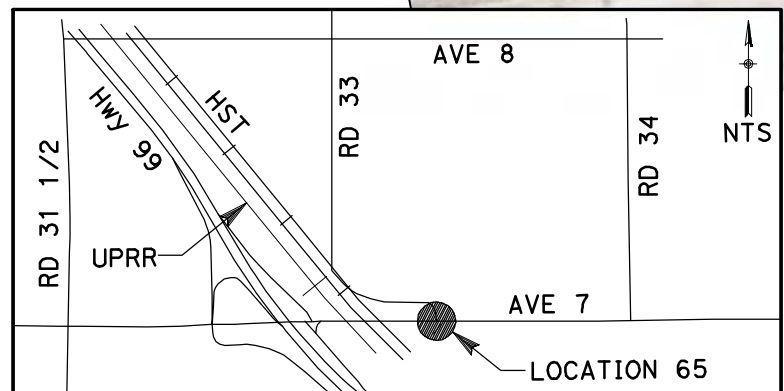
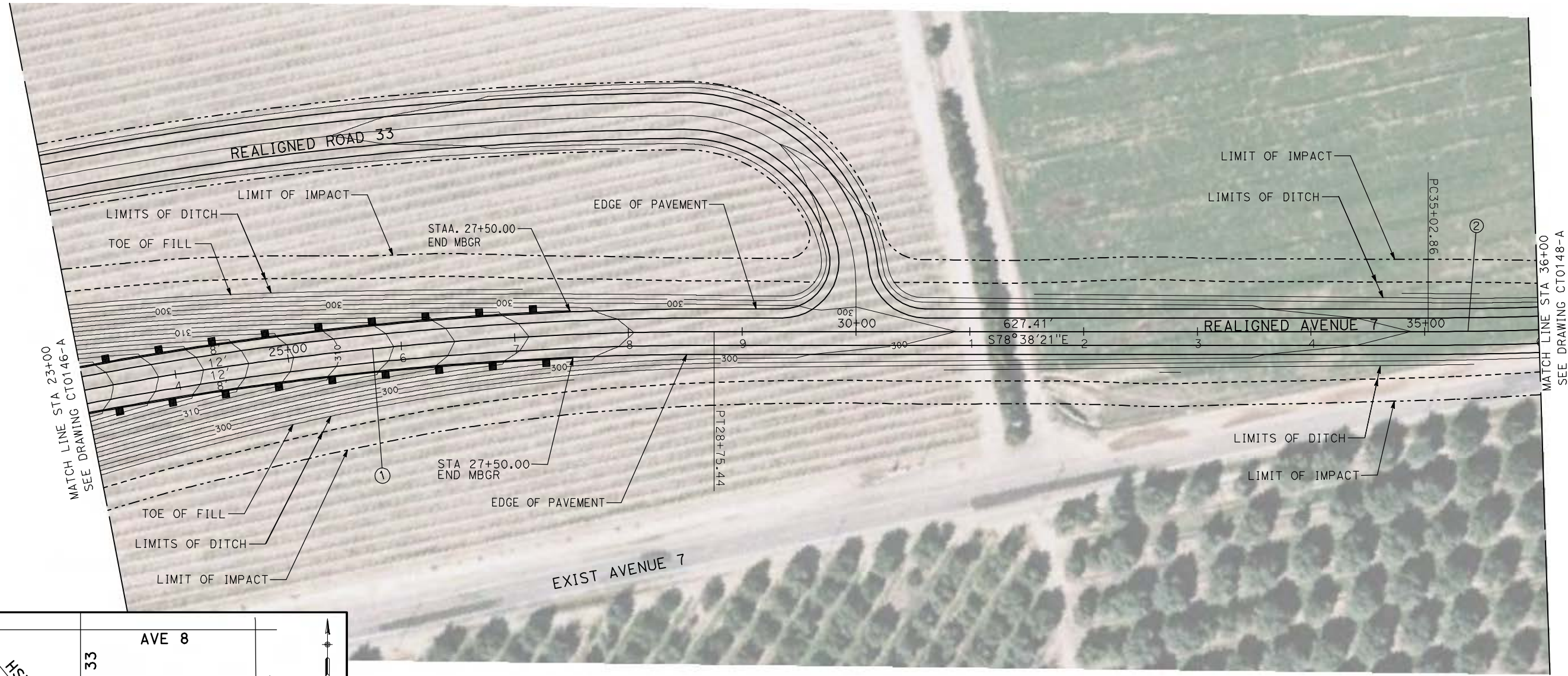


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAINLINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 7
 LAYOUT
 SHEET 1 OF 3

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

4/29/2011 2:07:38 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



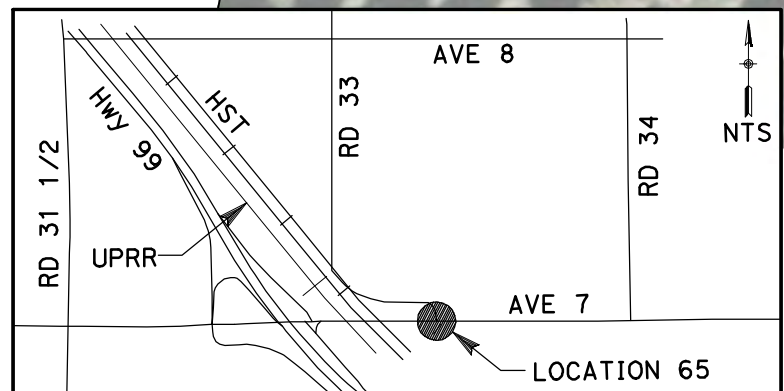
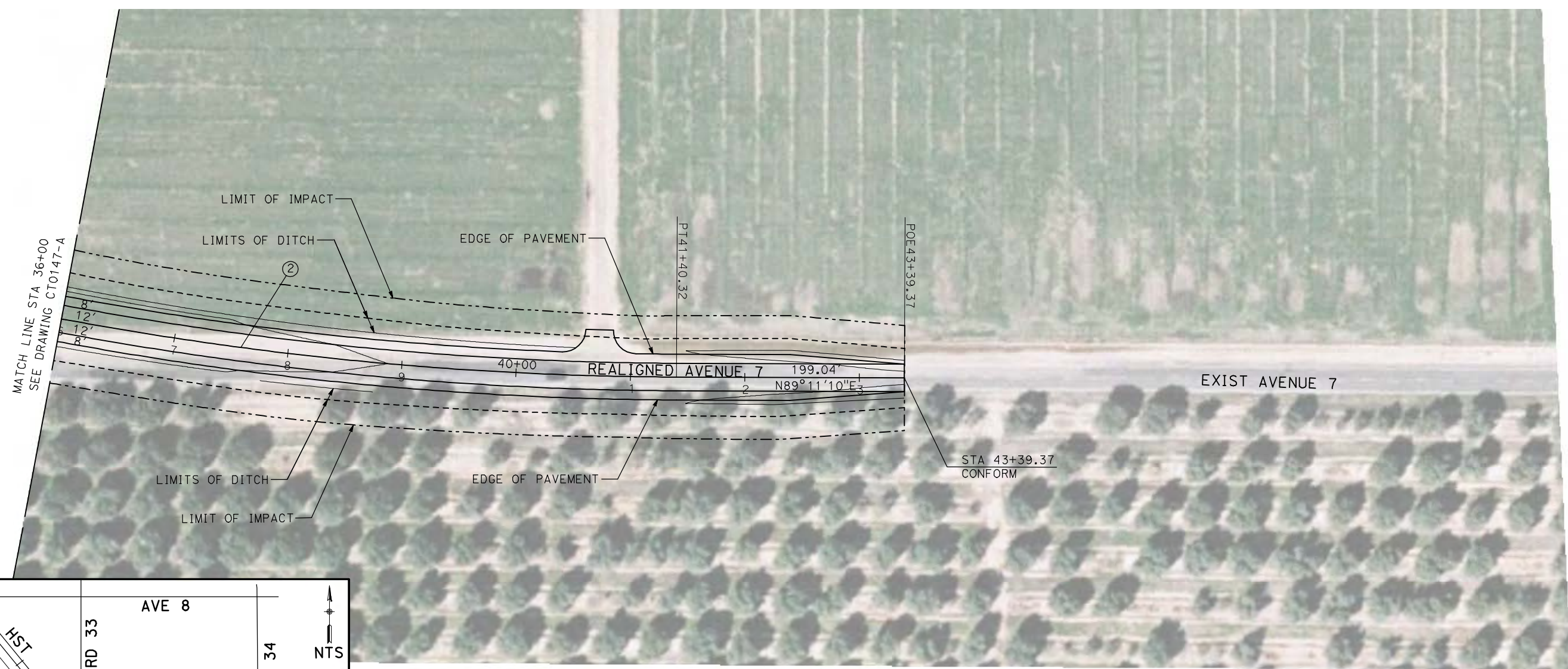
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 7
LAYOUT
SHEET 2 OF 3

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

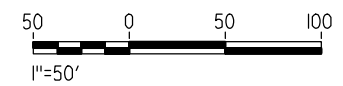
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CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



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 21 WYE
GRADE SEPARATION - AVENUE 7
LAYOUT
SHEET 3 OF 3

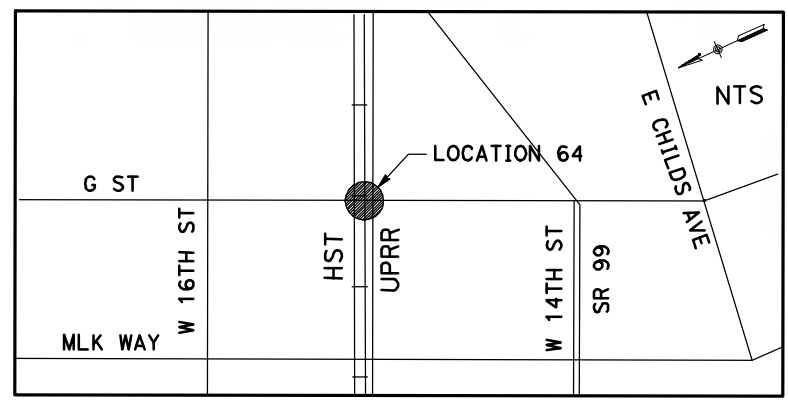
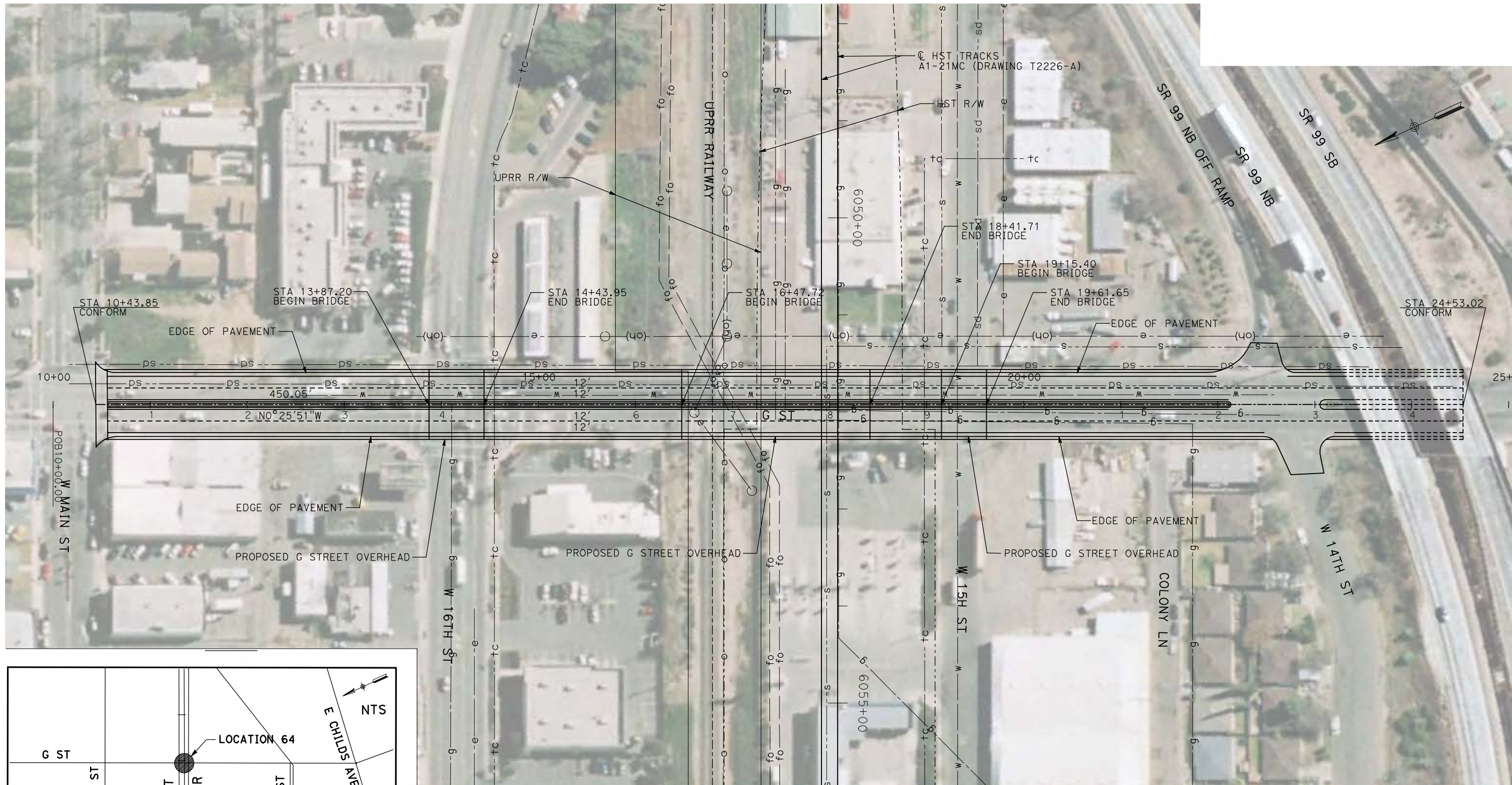
CONTRACT NO.
HST06-007

DRAWING NO.
CT0148-A

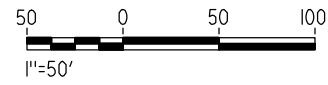
SCALE
AS SHOWN

SHEET NO.
OF ###

5/2/2011 10:57:50 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

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

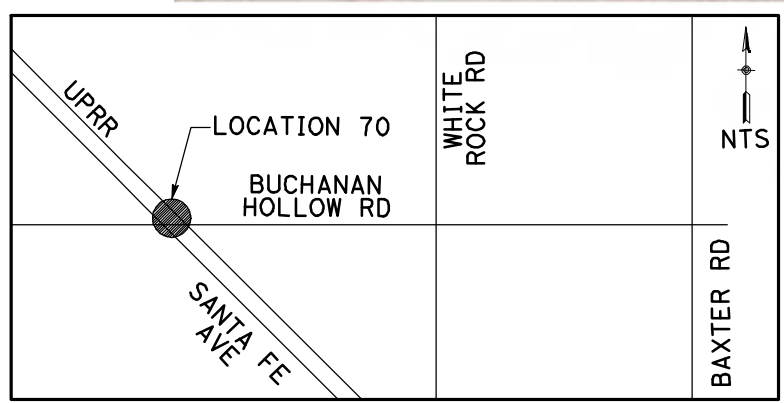
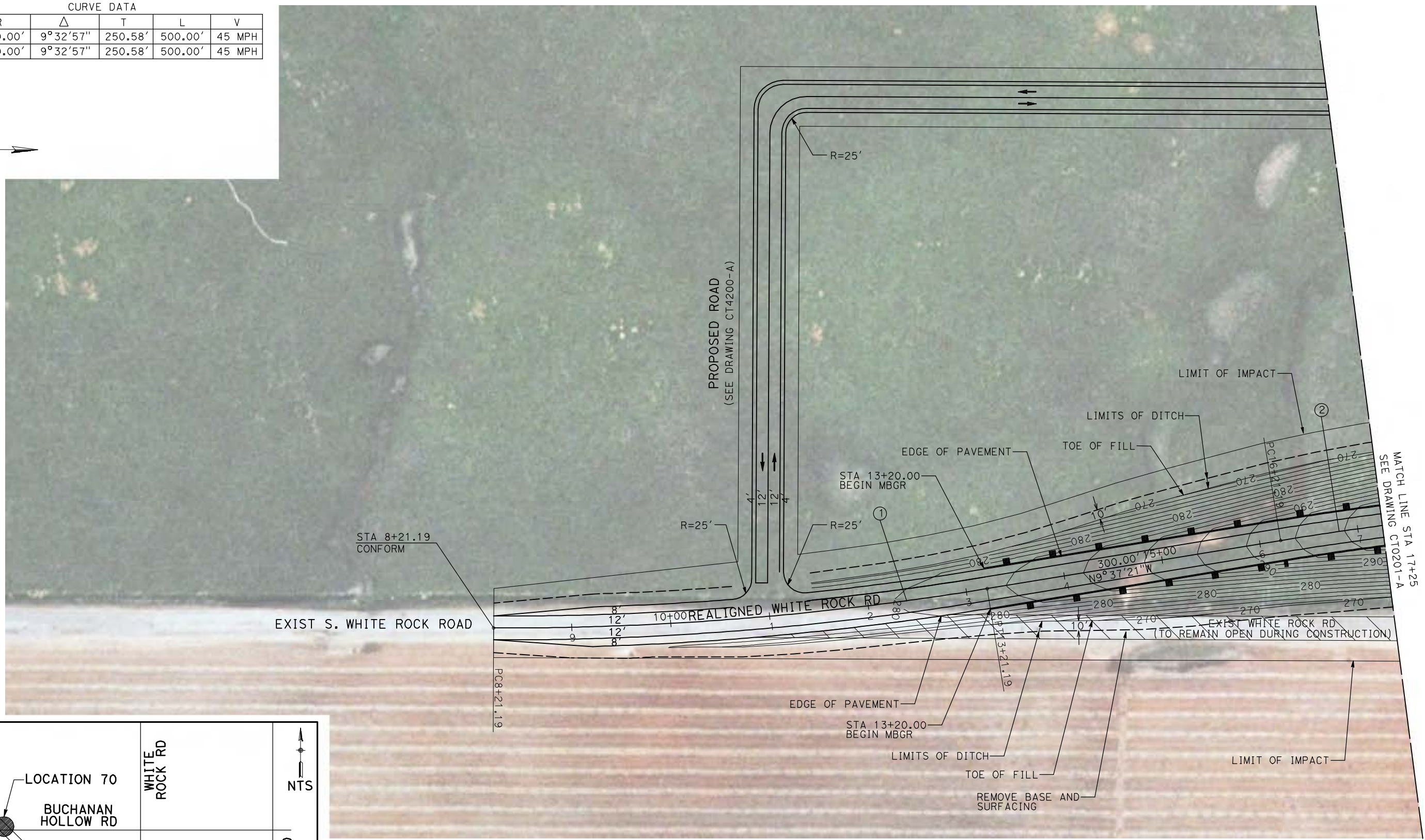


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTOR - AVE 21 WYE
GRADE SEPARATION - G STREET
LAYOUT
SHEET 1 OF 1

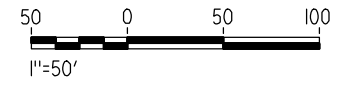
CONTRACT NO.
HST06-007
DRAWING NO.
CT0149-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:37:28 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-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
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



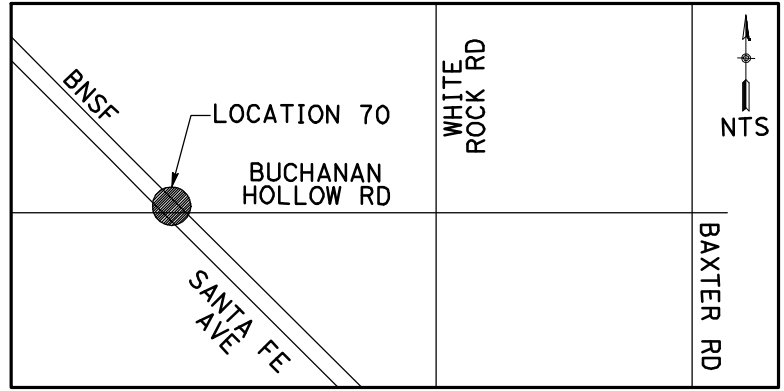
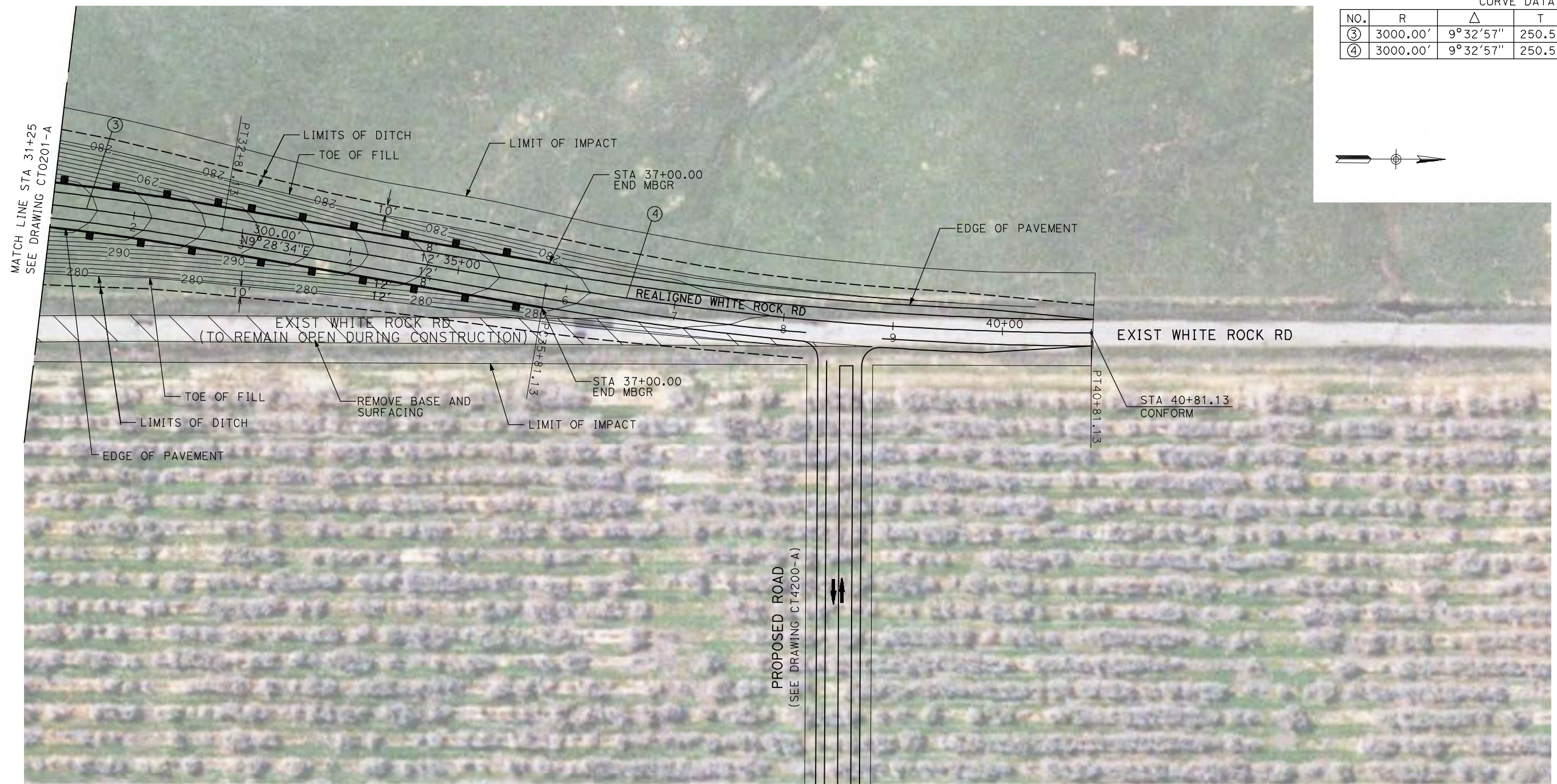
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. WHITE ROCK RD
LAYOUT
SHEET 1 OF 3

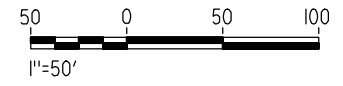
CONTRACT NO.
HST06-007
DRAWING NO.
CT0200-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:37:35 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
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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
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04/29/2011

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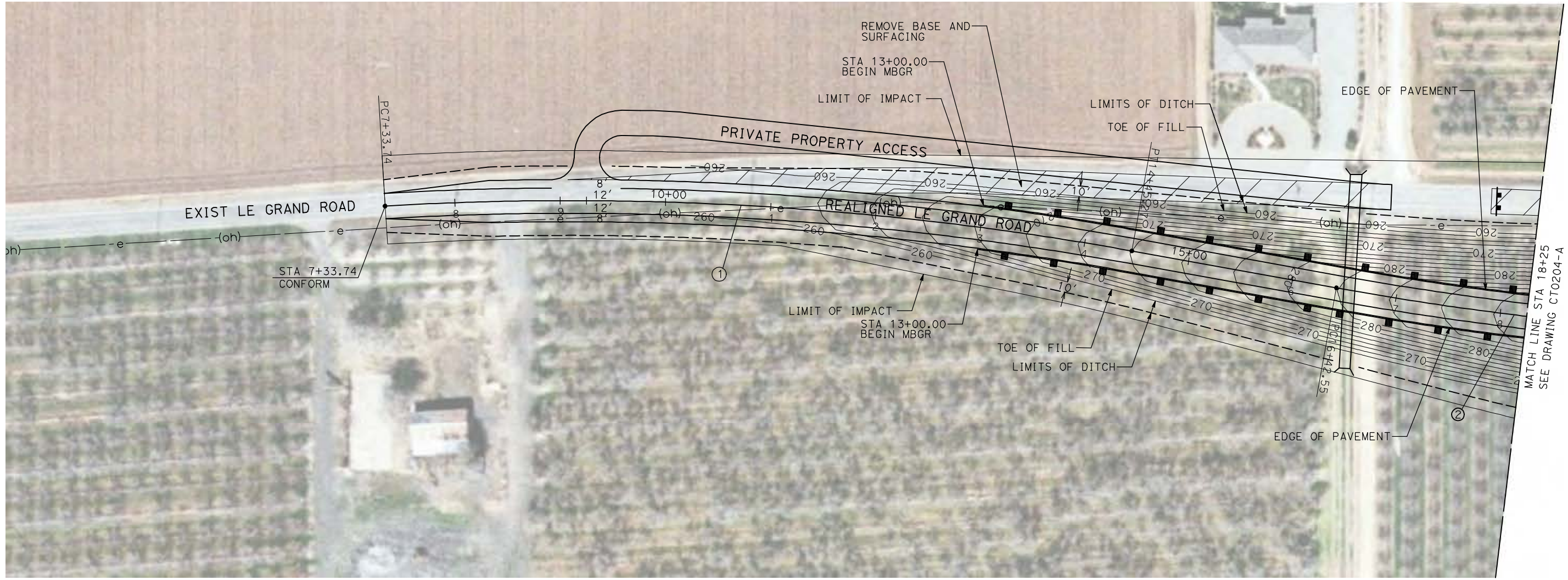


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. WHITE ROCK RD
 LAYOUT
 SHEET 3 OF 3

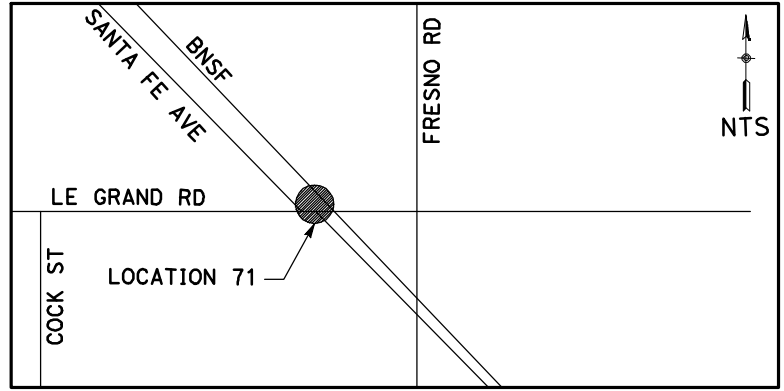
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HST06-007
 DRAWING NO.
CT0202-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:37:43 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



MATCH LINE STA 18+25
SEE DRAWING CT0204-A



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

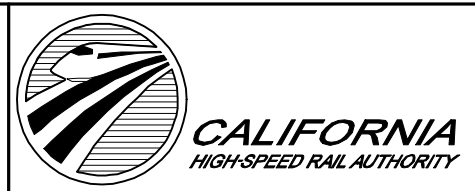


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
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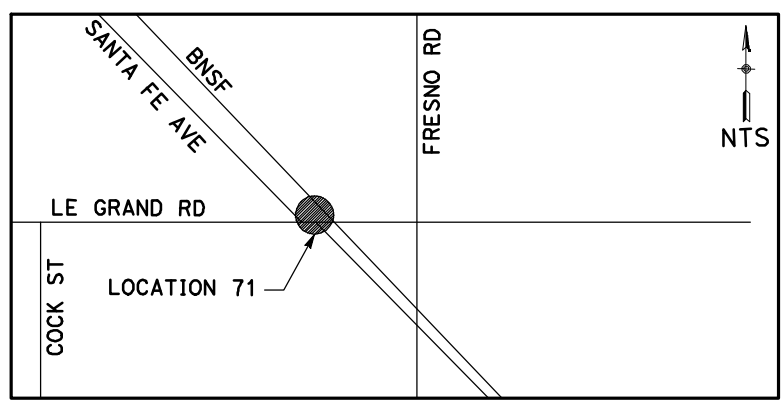
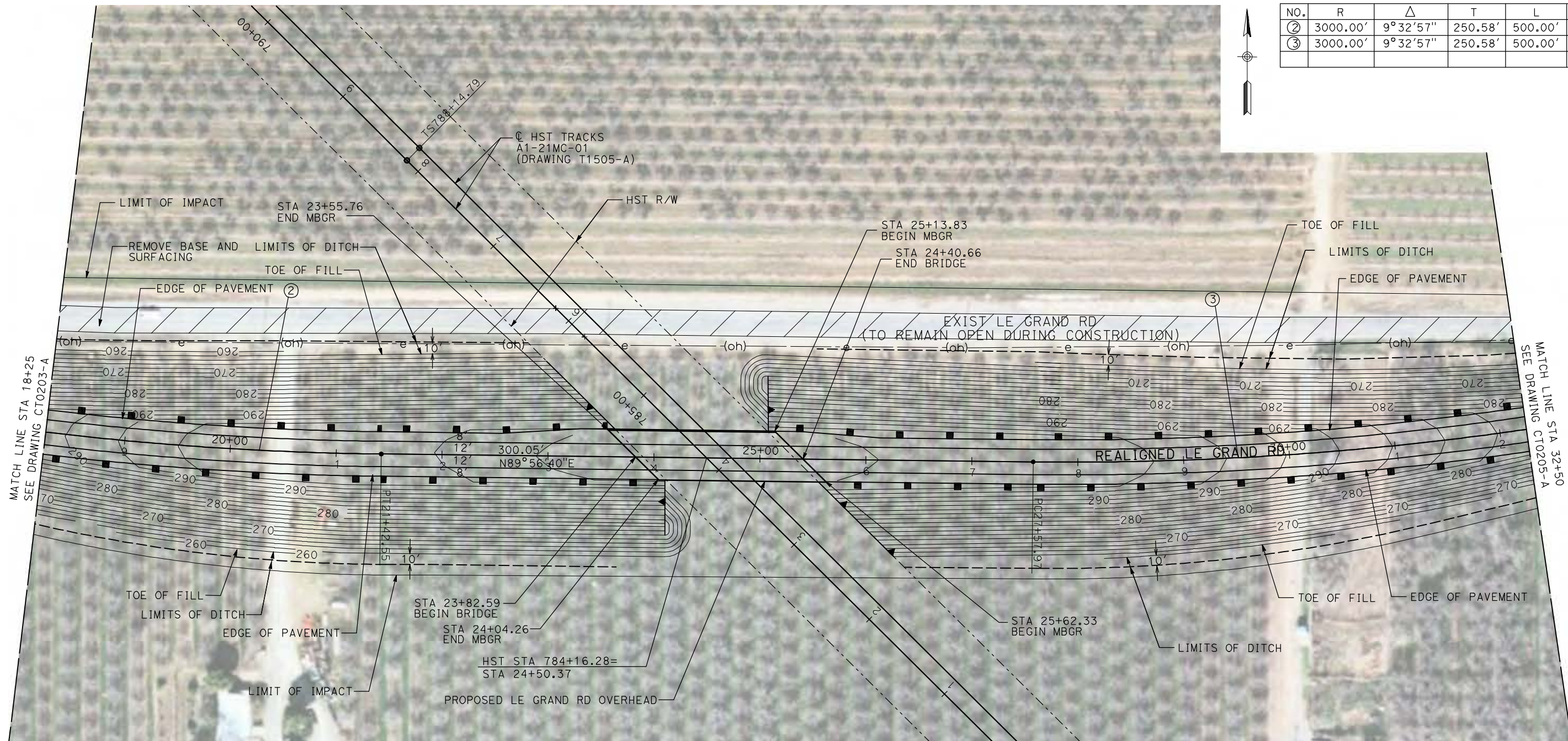
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 1 OF 3

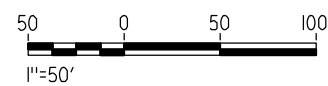
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HST06-007
DRAWING NO.
CT0203-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:37:50 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave21WyeGradeSeparation\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

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

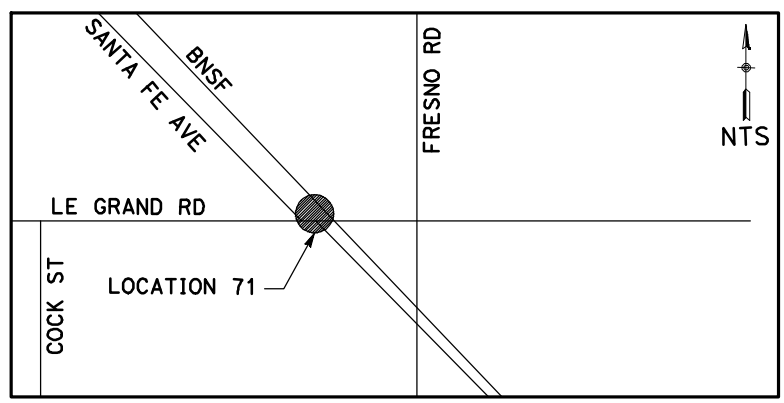
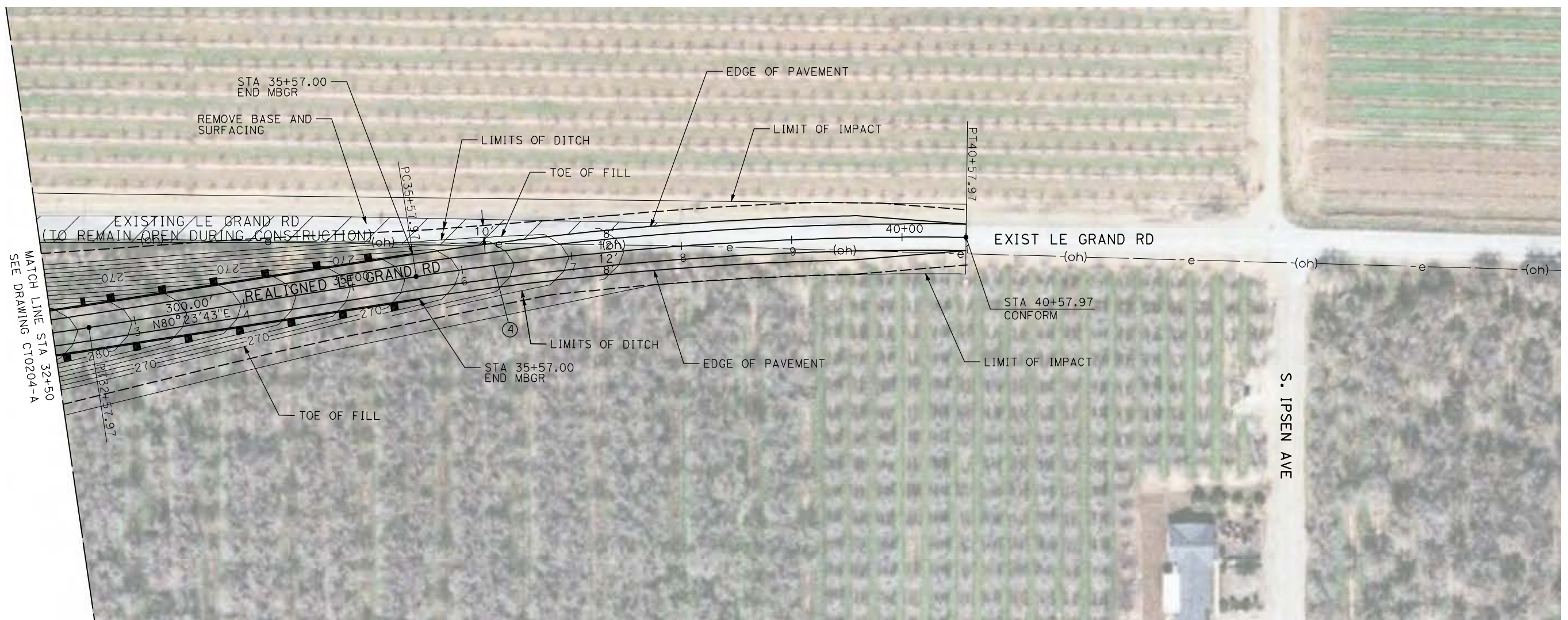
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 2 OF 3

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

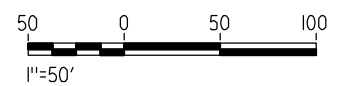
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CURVE DATA					
NO.	R	Δ	T	L	V
④	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



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



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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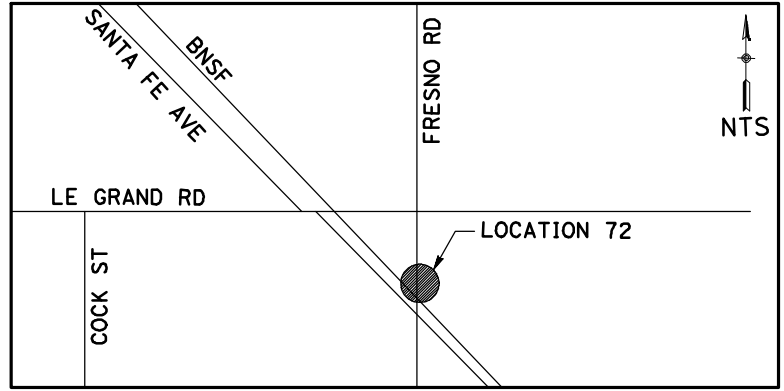
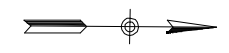


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - LE GRAND RD
 LAYOUT
 SHEET 3 OF 3

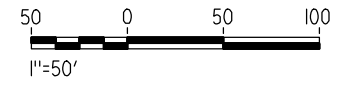
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0205-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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 CT1206-A THROUGH CT1208-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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04/29/2011

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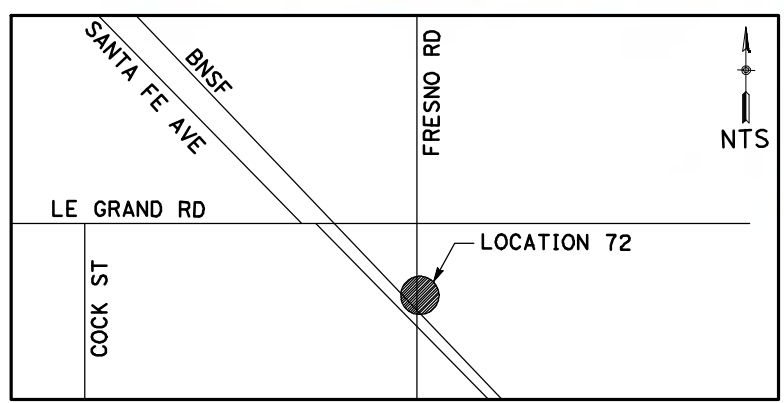
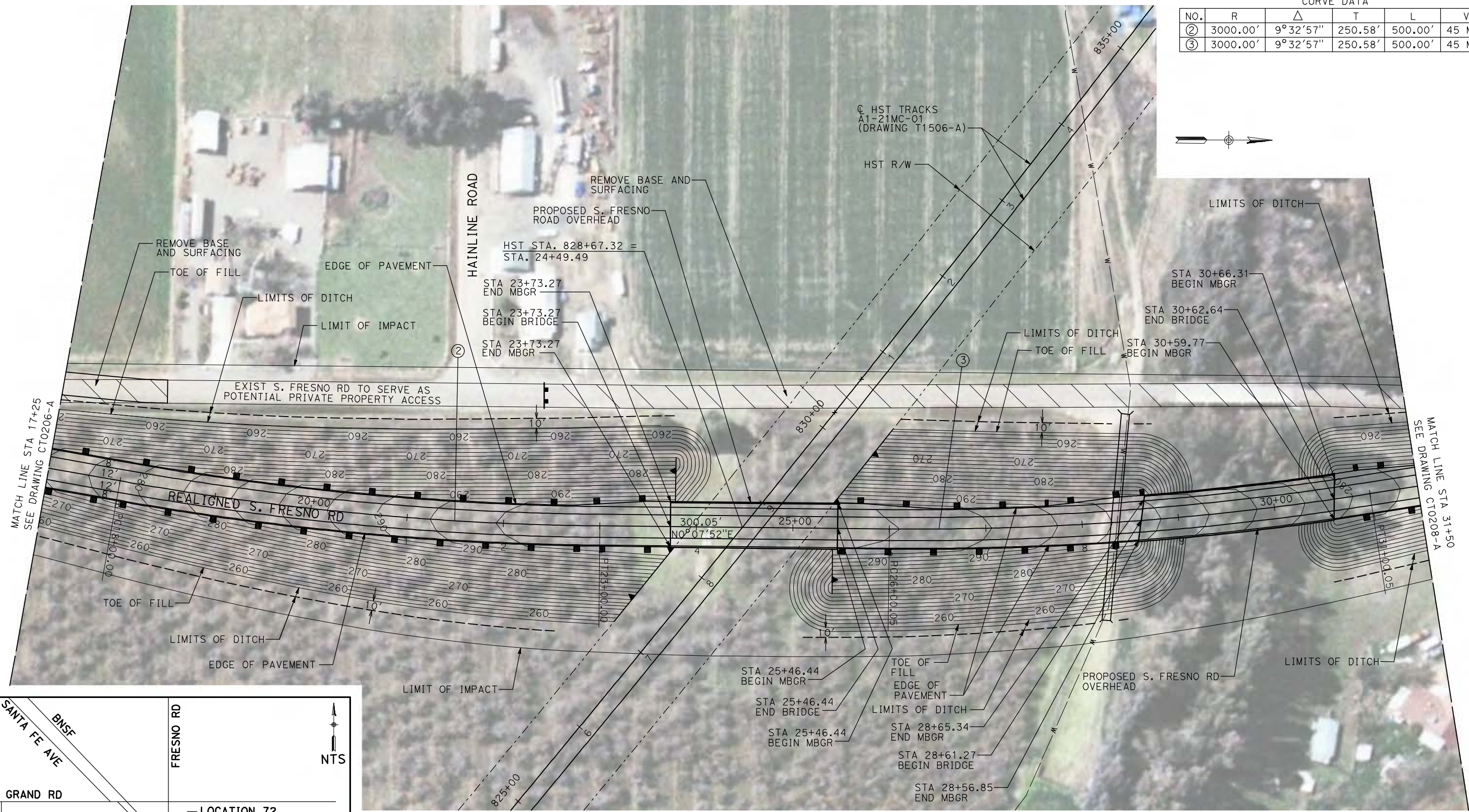


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 1 OF 3

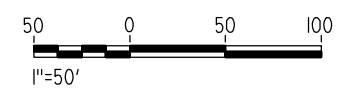
CONTRACT NO.
HST06-007
DRAWING NO.
CT0206-A
SCALE
AS SHOWN
SHEET NO.
OF

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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 CT1206-A THROUGH CT1208-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

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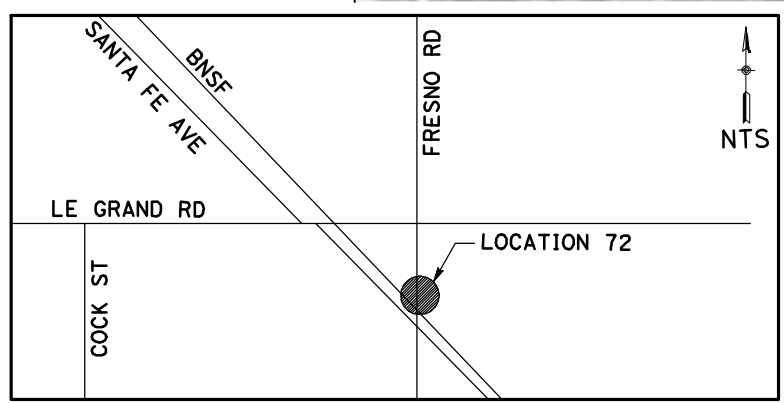
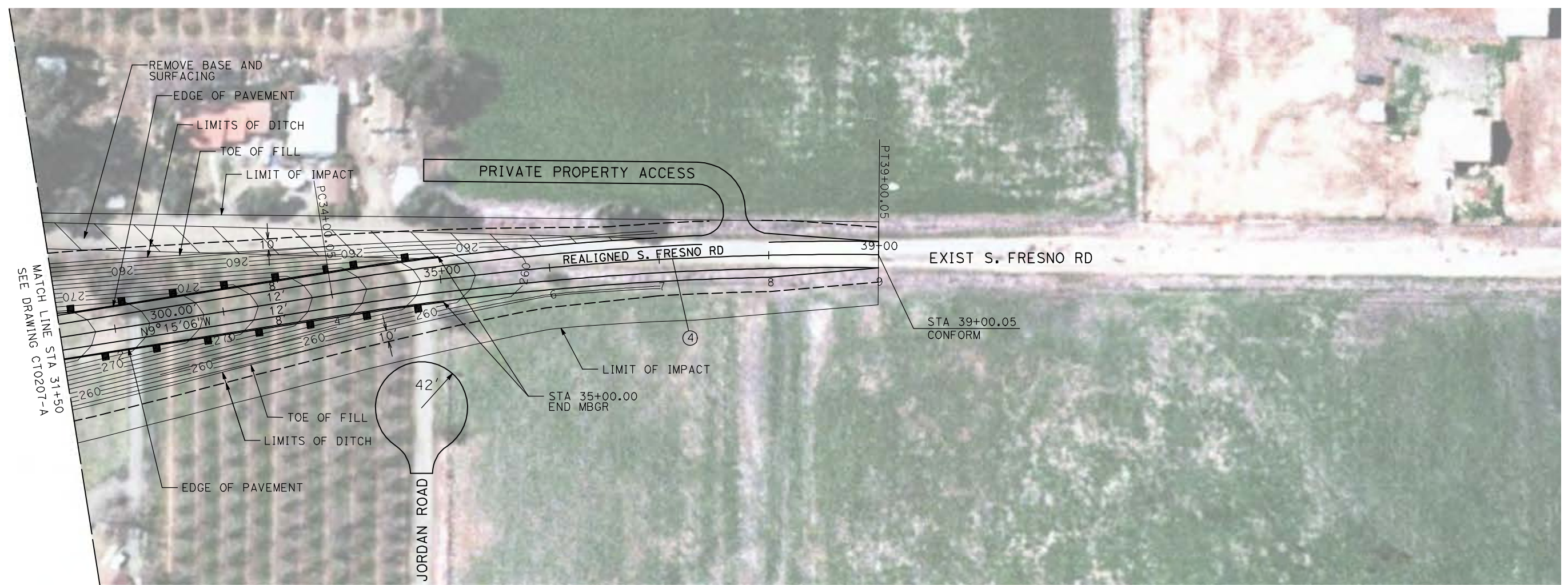
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 2 OF 3

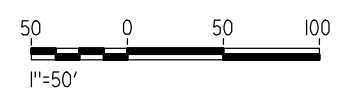
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SCALE
AS SHOWN
SHEET NO.
OF

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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 CT1206-A THROUGH CT1208-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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04/29/2011

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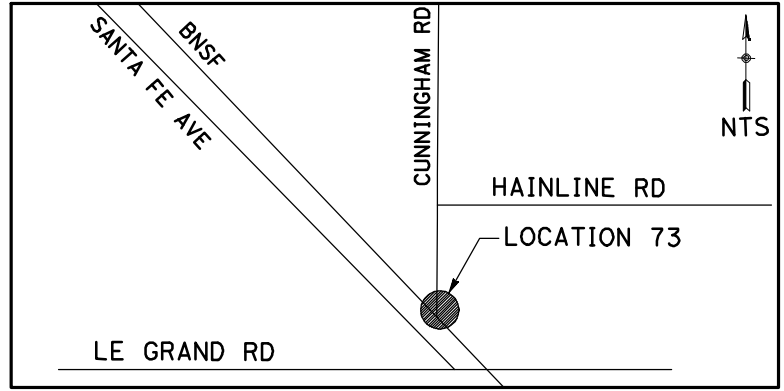
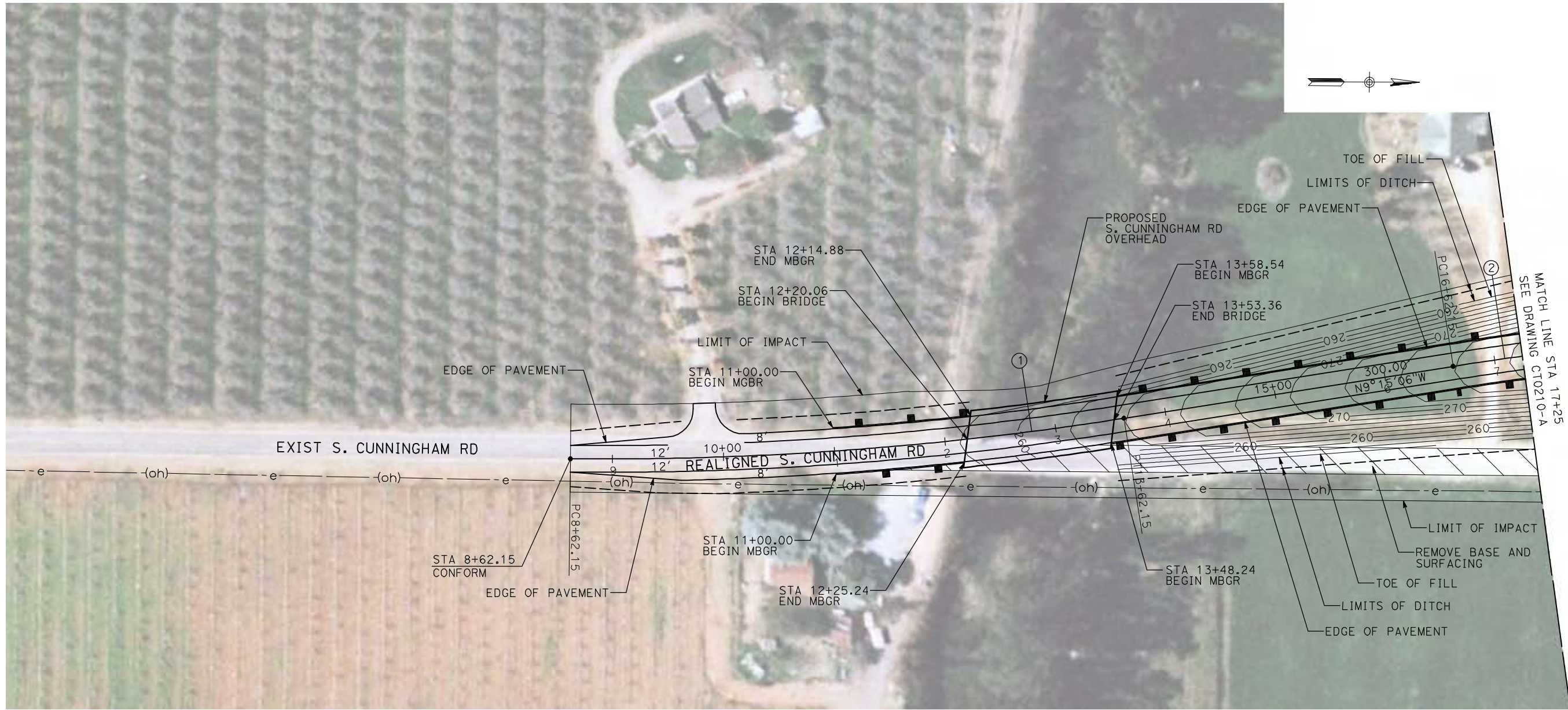
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 3 OF 3

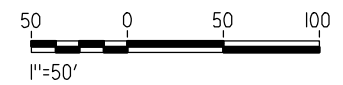
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HST06-007
DRAWING NO.
CT0208-A
SCALE
AS SHOWN
SHEET NO.
OF

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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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04/29/2011

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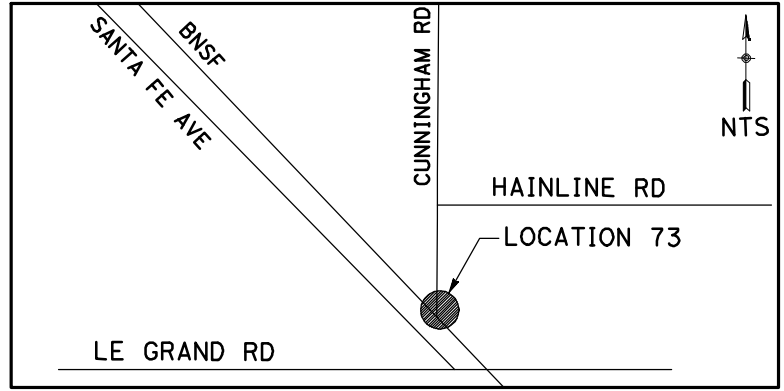
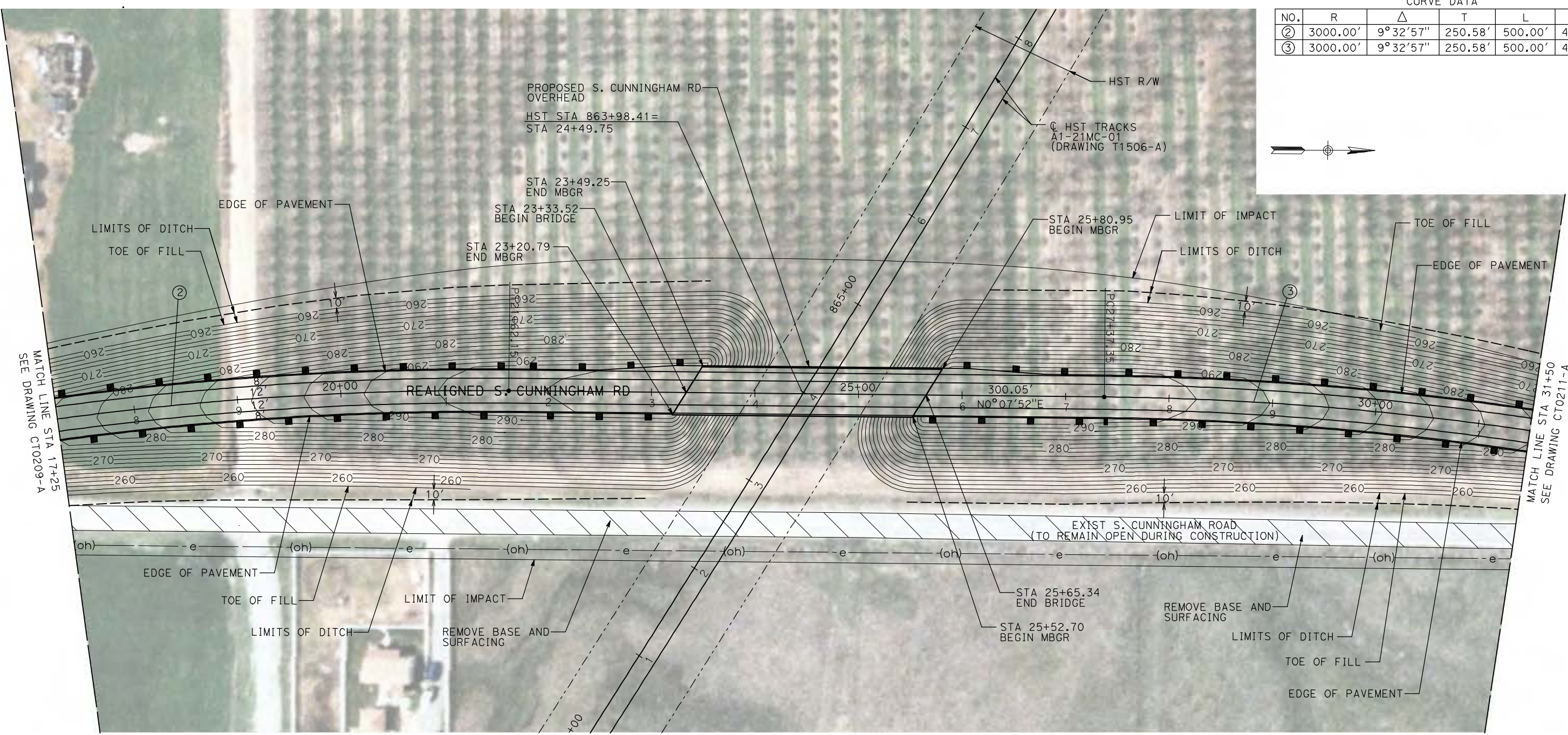
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 1 OF 3

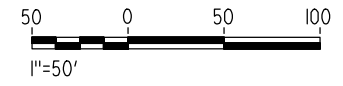
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HST06-007
DRAWING NO.
CT0209-A
SCALE
AS SHOWN
SHEET NO.
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CURVE DATA					
NO.	R	Δ	T	L	V
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③	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



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



REV	DATE	BY	CHK	APP	DESCRIPTION

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J. ZANDIAN
IN CHARGE
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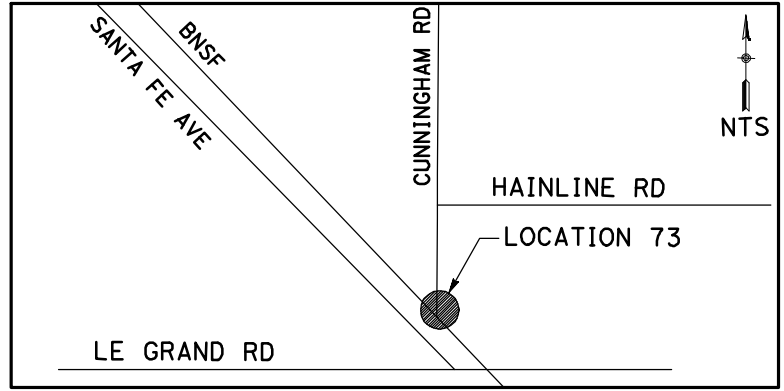
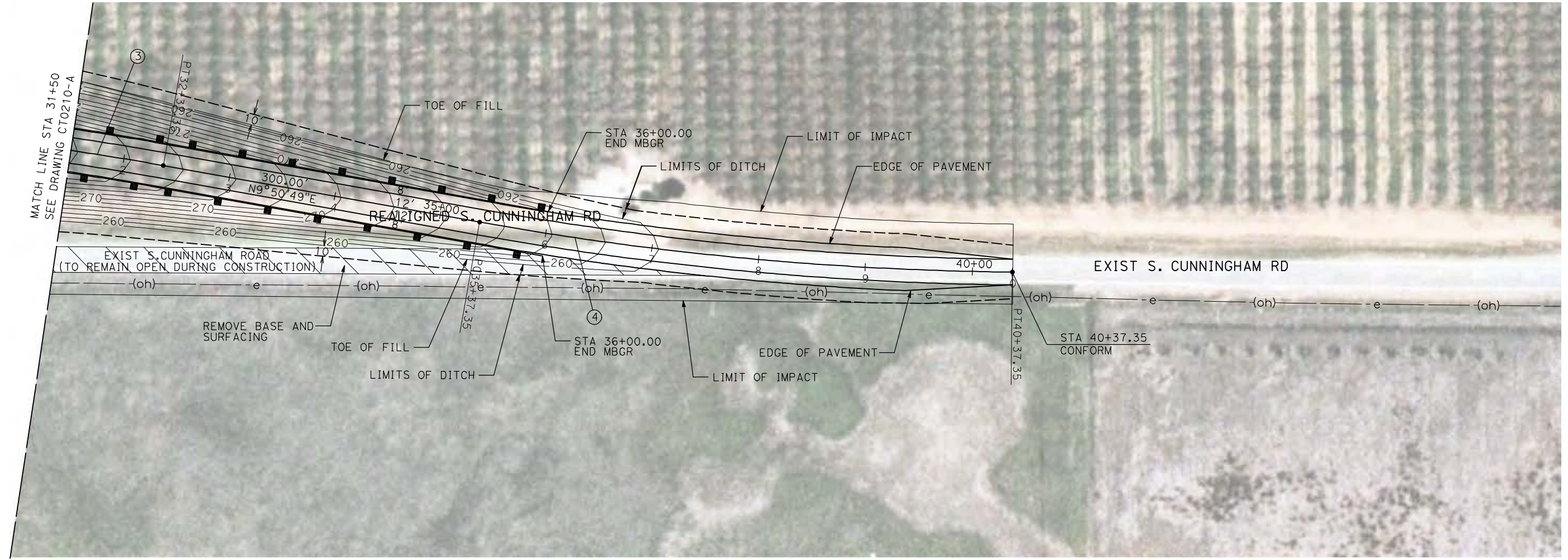
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 2 OF 3

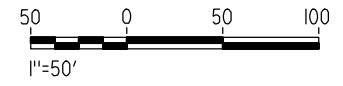
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DRAWING NO.
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SCALE
AS SHOWN
SHEET NO.
OF

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CURVE DATA					
NO.	R	Δ	T	L	V
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

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 CHECKED BY
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A. BOONE
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04/29/2011

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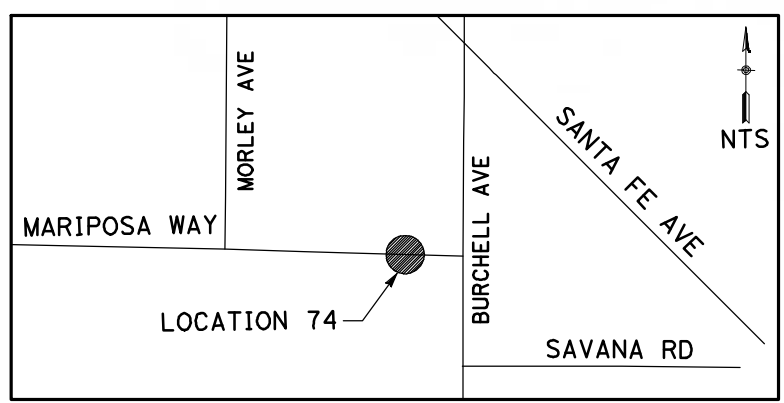
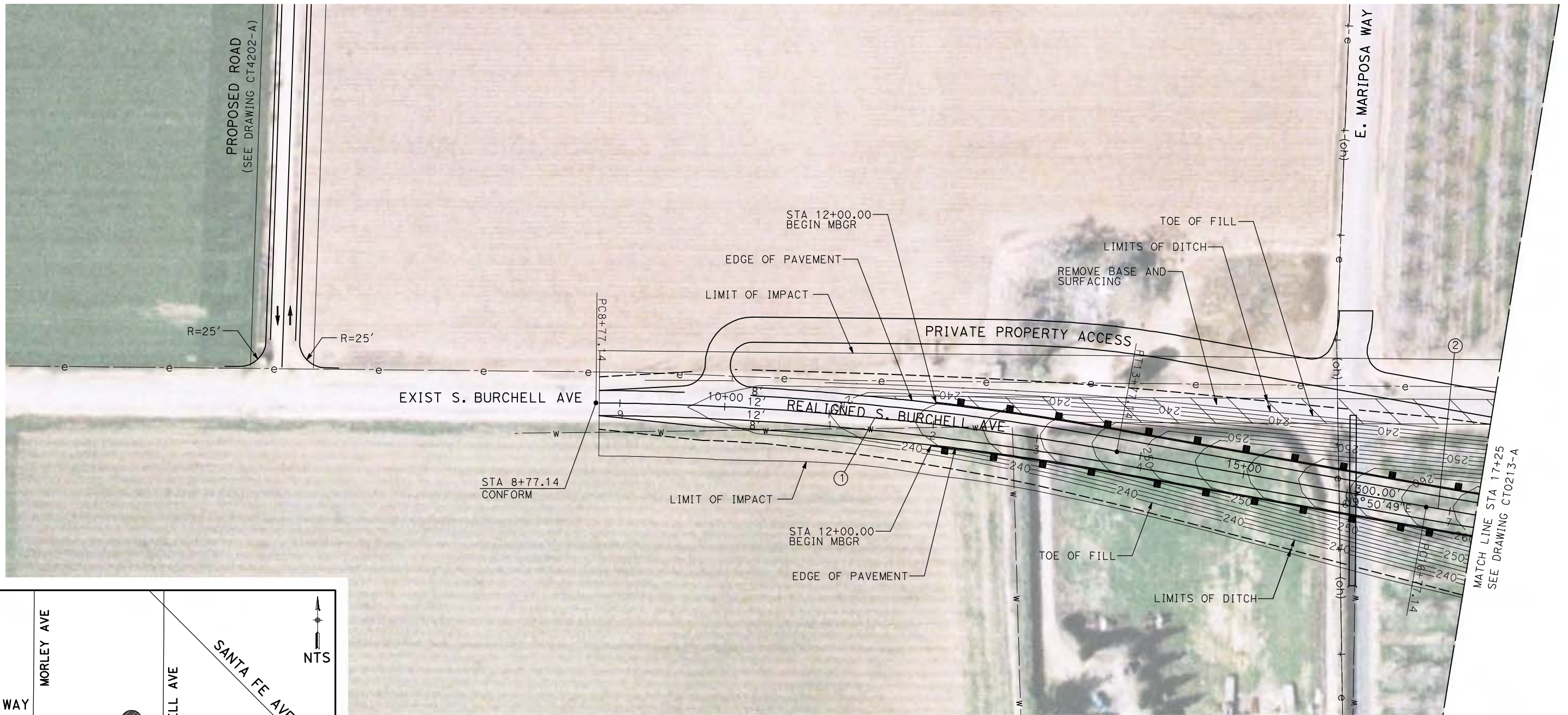
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. CUNNINGHAM RD
 LAYOUT
 SHEET 3 OF 3

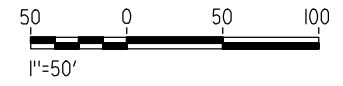
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0211-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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 CT1212-A THROUGH CT1214-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

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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 21 WYE
GRADE SEPARATION - S. BURCHELL AVE
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007

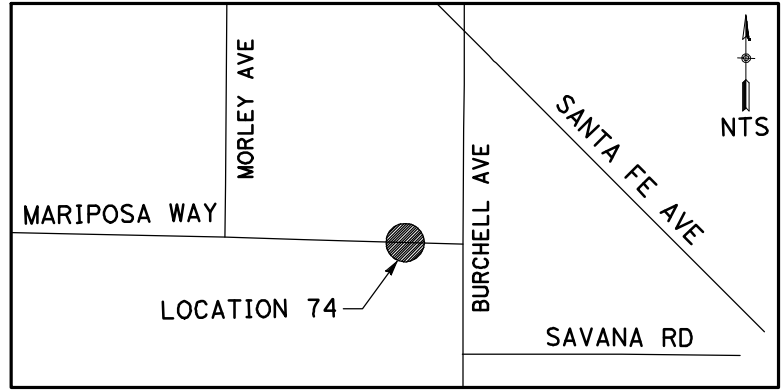
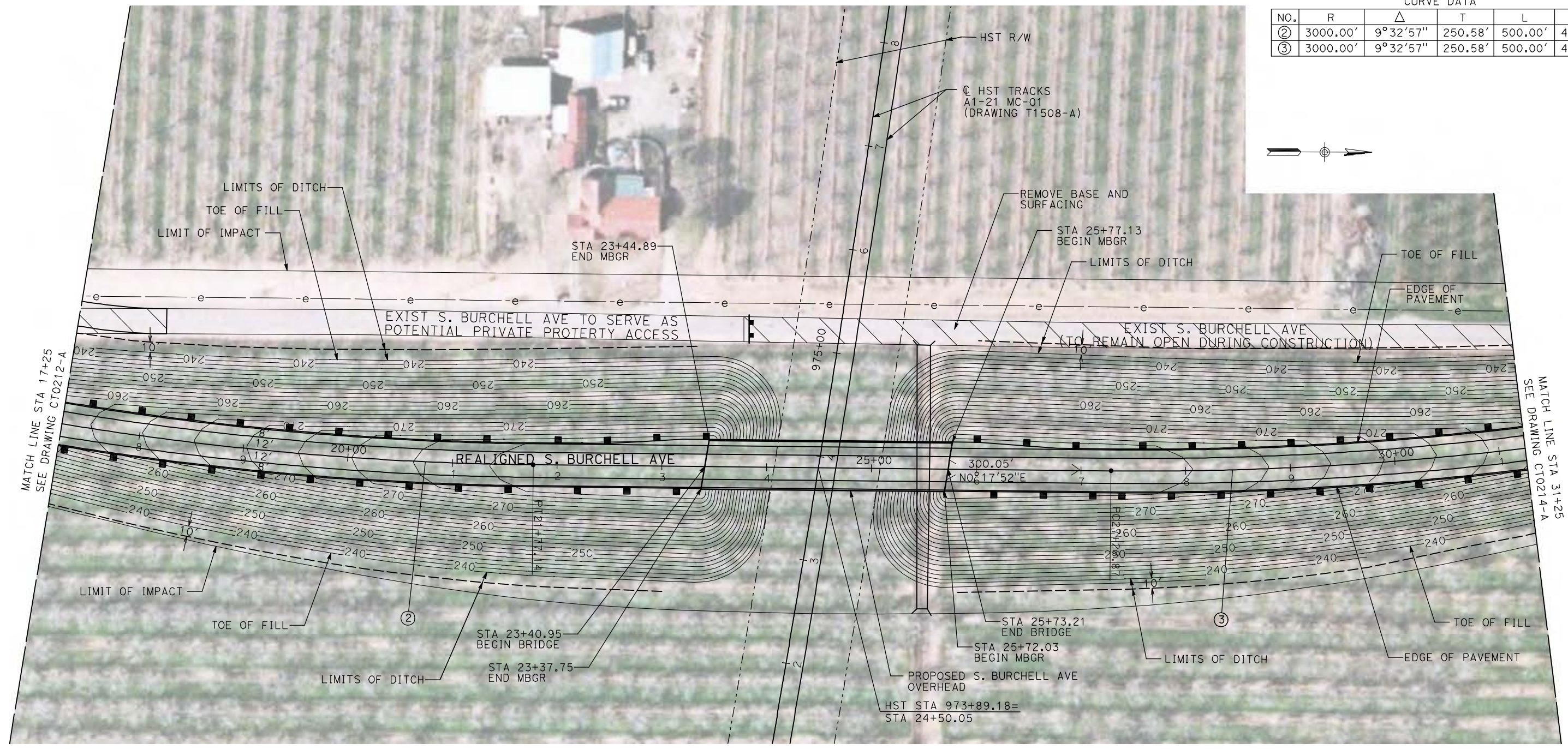
DRAWING NO.
CT0212-A

SCALE
AS SHOWN

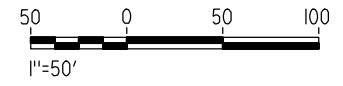
SHEET NO.
OF

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

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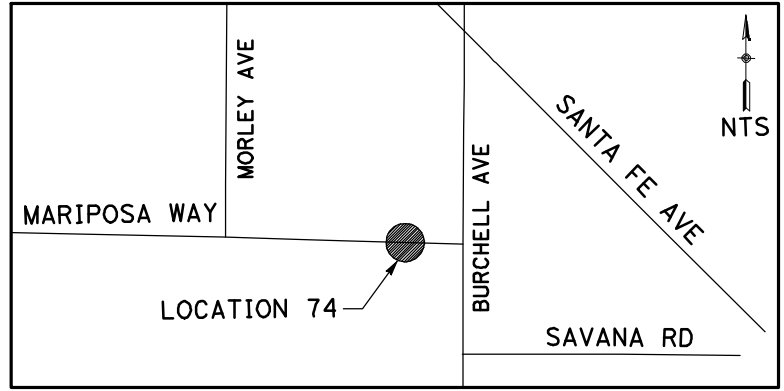
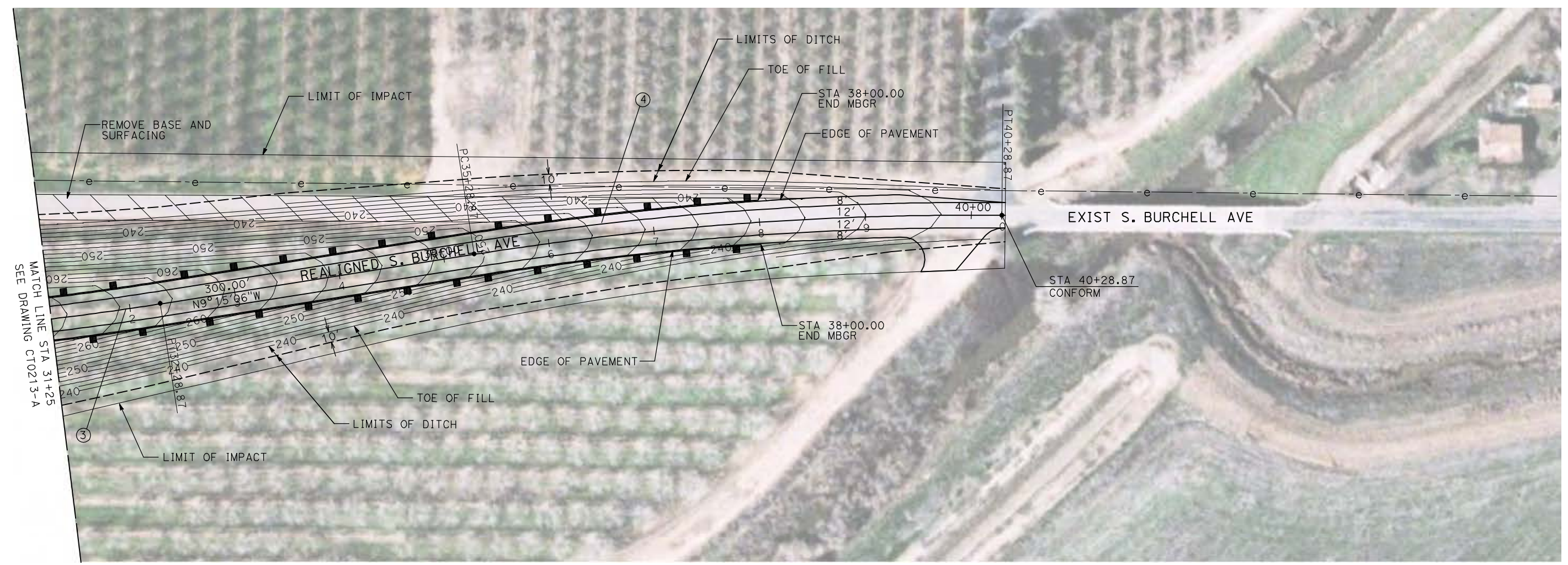
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. BURCHELL AVE
LAYOUT
SHEET 2 OF 3

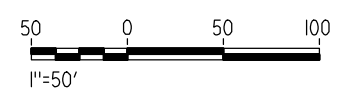
CONTRACT NO.
HST06-007
DRAWING NO.
CT0213-A
SCALE
AS SHOWN
SHEET NO.
OF

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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 CT1212-A THROUGH CT1214-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

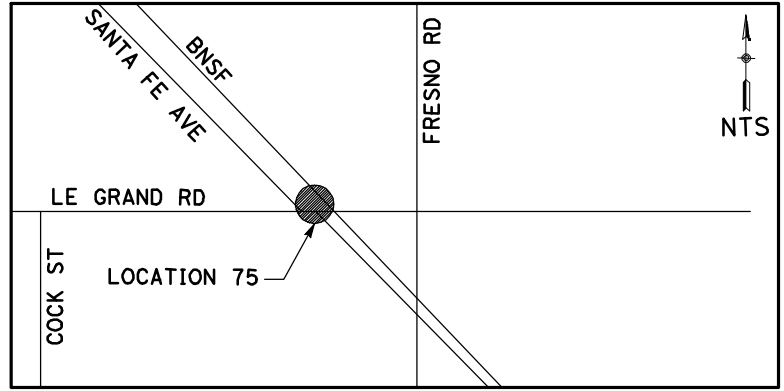
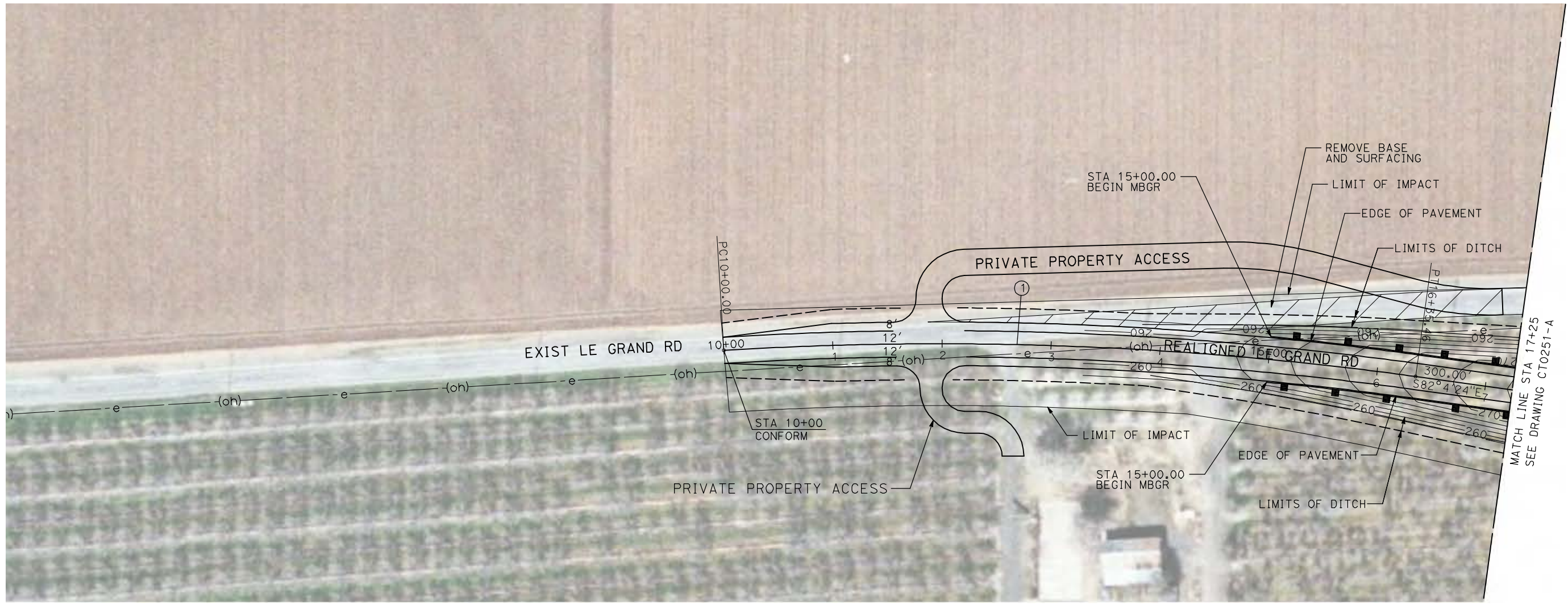


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. BURCHELL AVE
LAYOUT
SHEET 3 OF 3

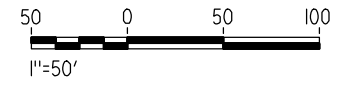
CONTRACT NO.
HST06-007
DRAWING NO.
CT0214-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:45:11 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc02\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

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



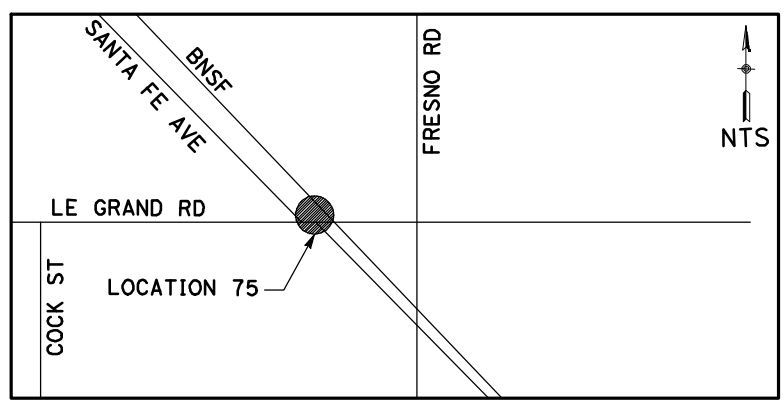
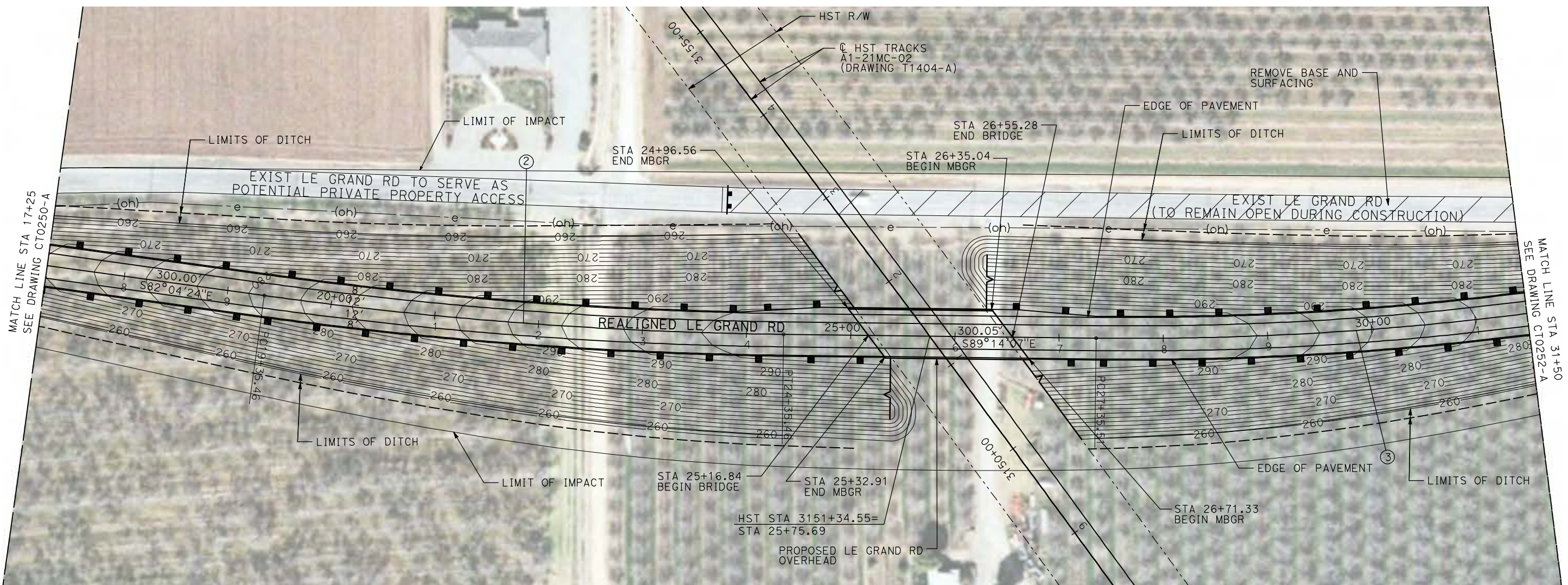
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 1 OF 3

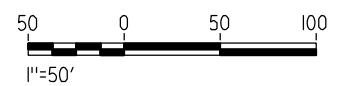
CONTRACT NO.
HST06-007
DRAWING NO.
CT0250-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:45:17 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc02\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0251-A.dgn

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

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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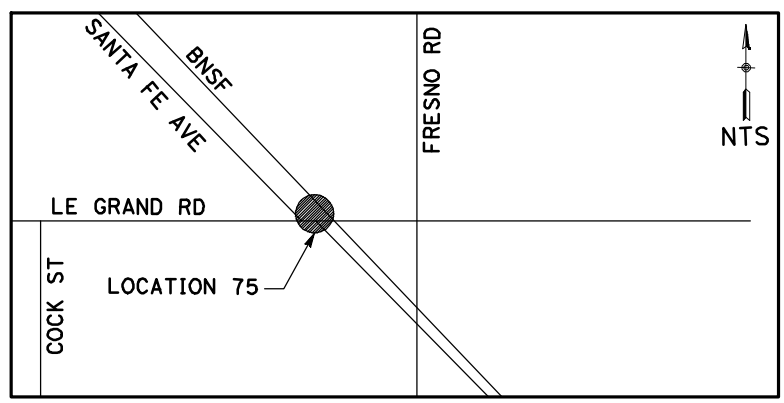
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 2 OF 3

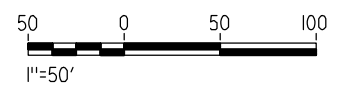
CONTRACT NO.
HST06-007
DRAWING NO.
CT0251-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:45:25 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-0252-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 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
DATE
04/29/2011

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

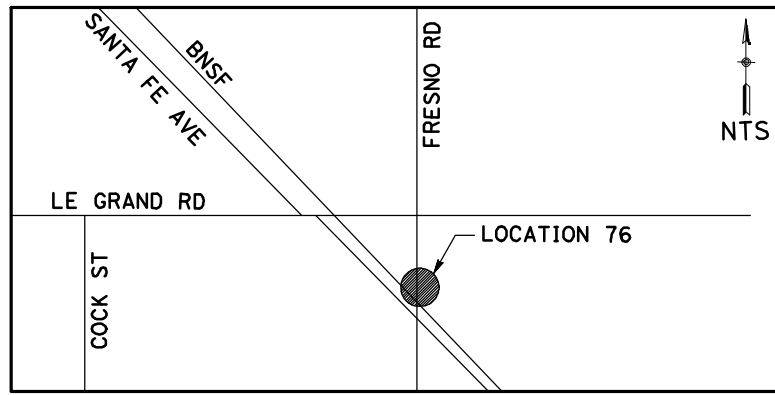
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - LE GRAND RD
LAYOUT
SHEET 3 OF 3

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

4/29/2011 2:45:32 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave214Mc02\Volume 1A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0253-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 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
DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

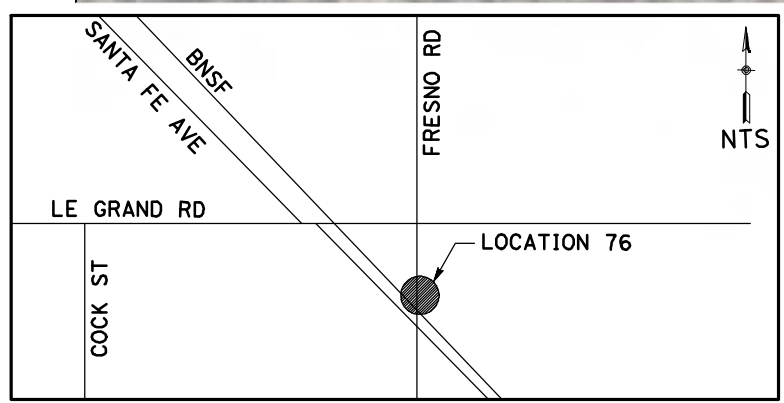
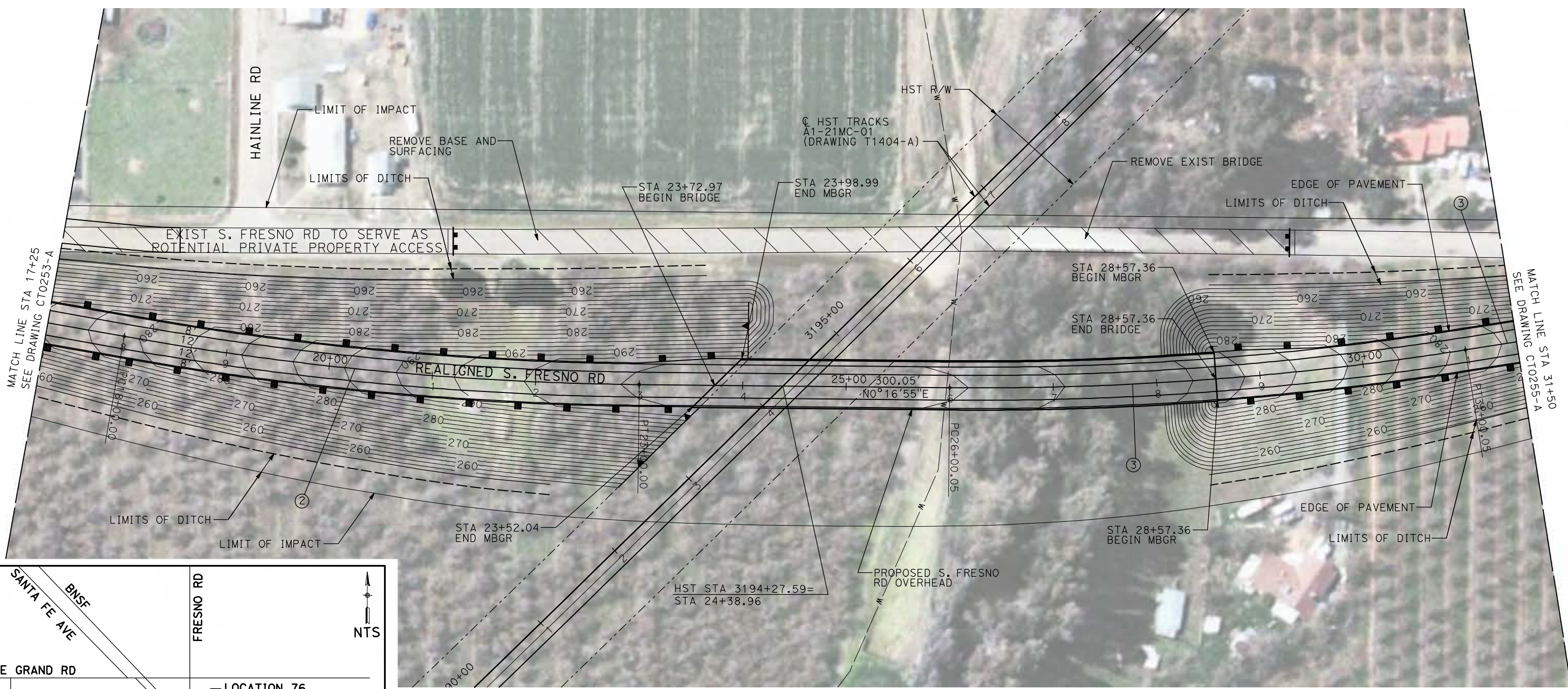


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. FRESNO RD
LAYOUT
SHEET 1 OF 3

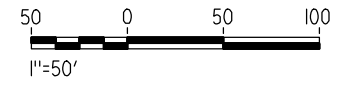
CONTRACT NO.
HST06-007
DRAWING NO.
CT0253-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:45:39 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave21WyeGradeSeparation\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
 DATE
04/29/2011

RECORD SET
15% DESIGN
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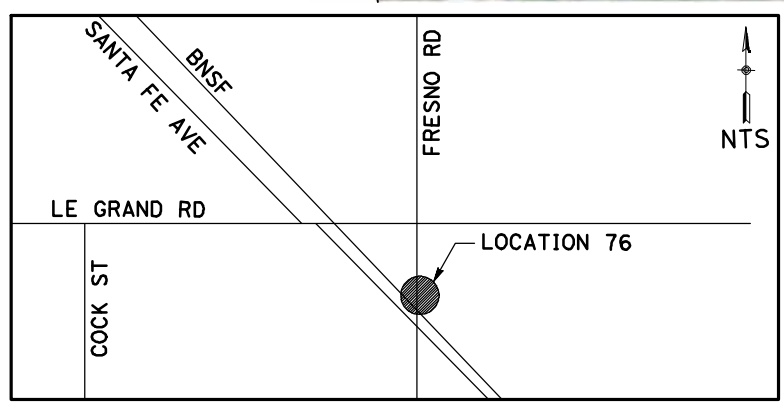
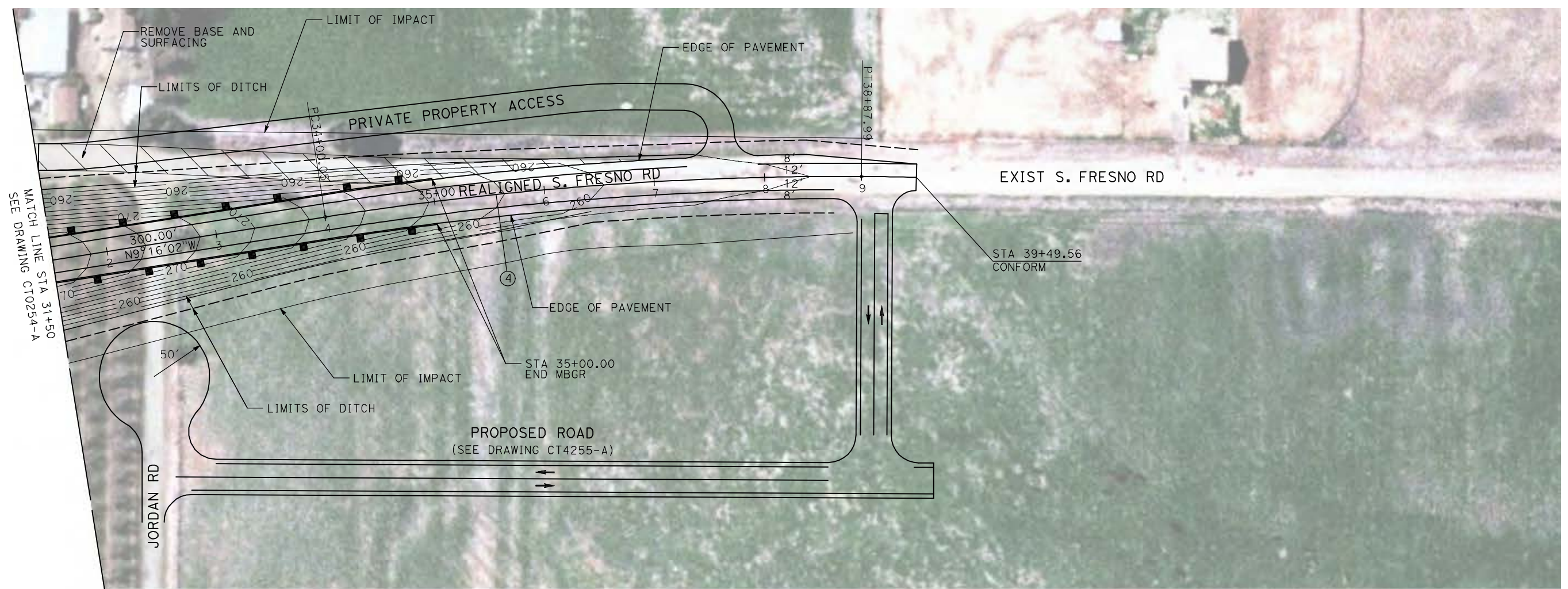


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. FRESNO RD
 LAYOUT
 SHEET 2 OF 3

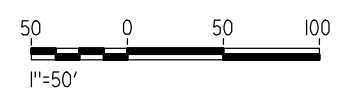
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0254-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:45:48 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

RECORD SET
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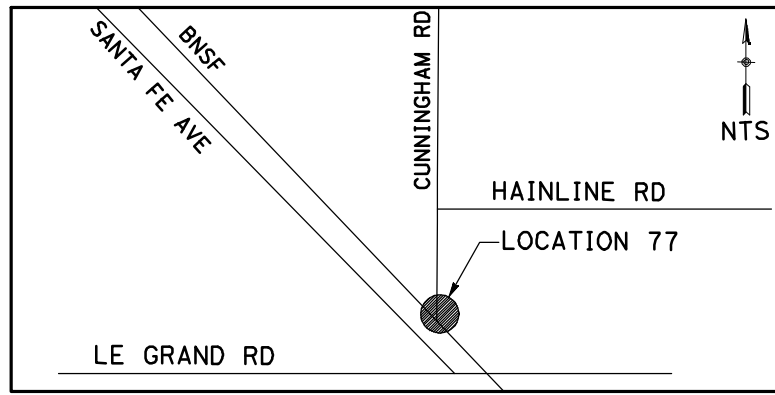
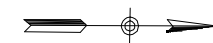


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. FRESNO RD
 LAYOUT
 SHEET 3 OF 3

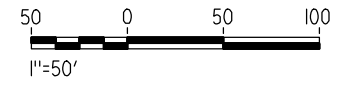
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0255-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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 CT1256-A THROUGH CT1258-A.

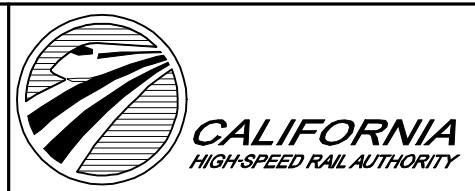


REV	DATE	BY	CHK	APP	DESCRIPTION

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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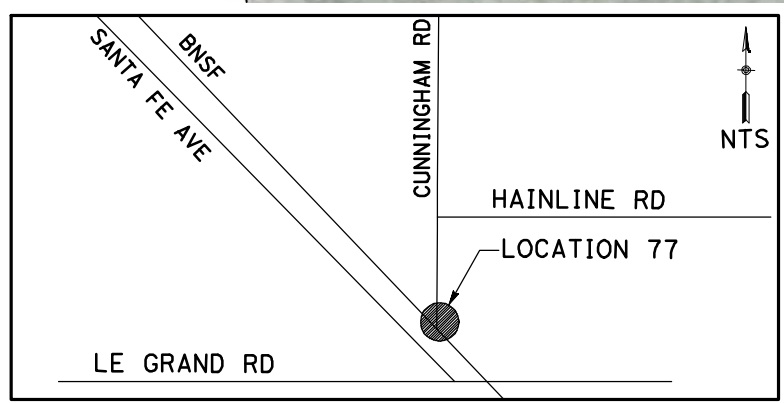
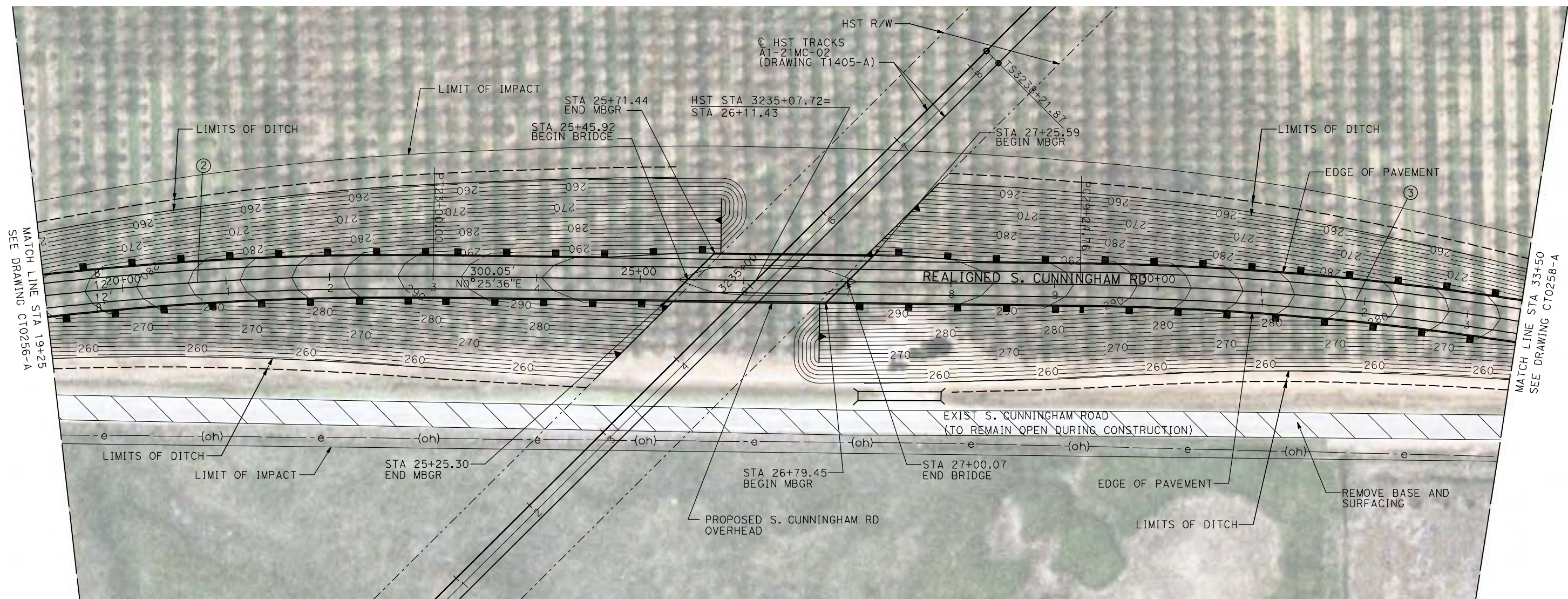
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. CUNNINGHAM RD
LAYOUT
SHEET 1 OF 3

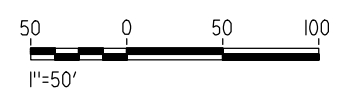
CONTRACT NO.
HST06-007
DRAWING NO.
CT0256-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:46:02 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave2124Mc02\Volume 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
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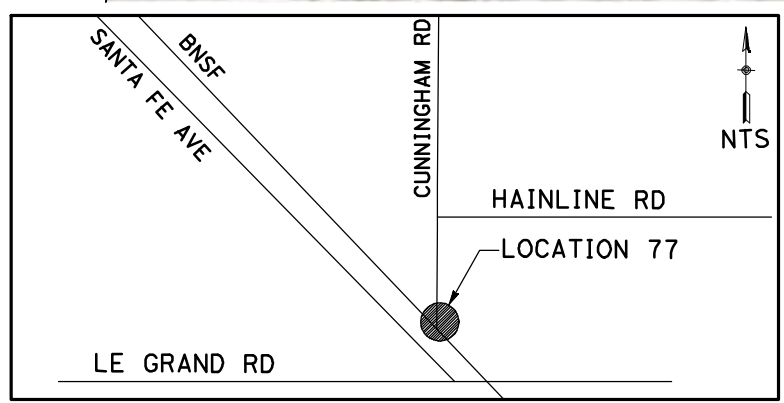
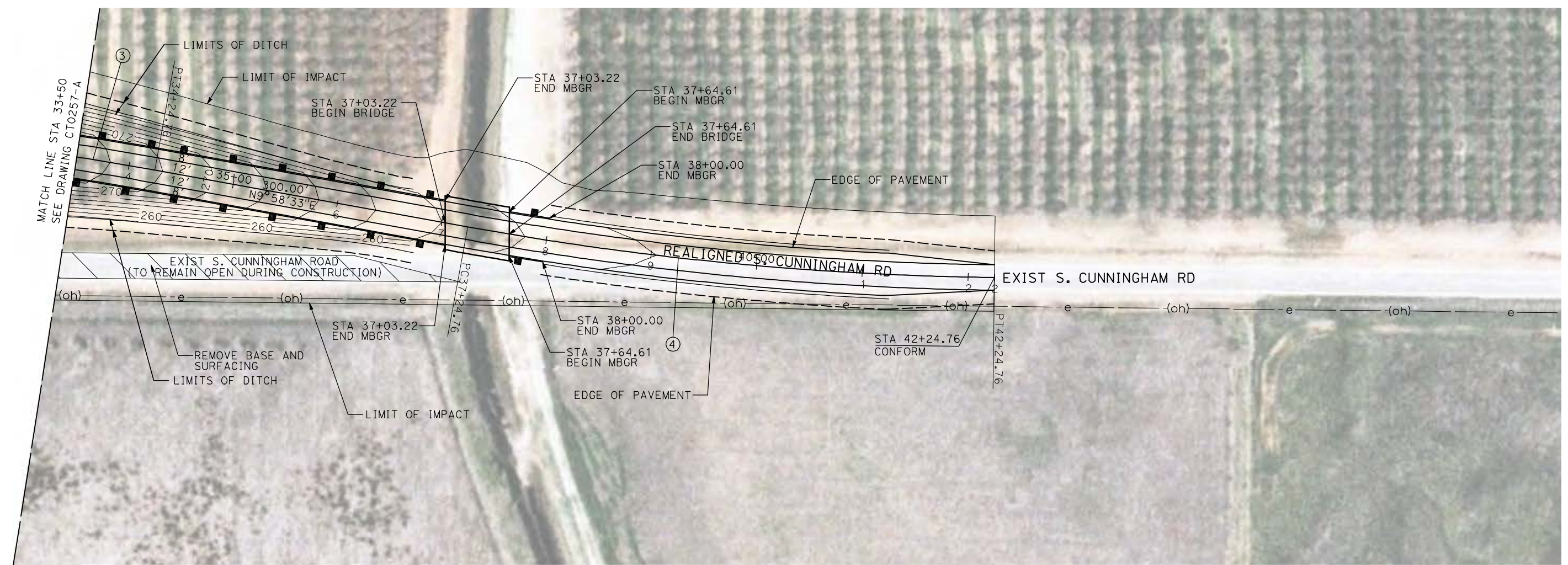
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. CUNNINGHAM RD
 LAYOUT
 SHEET 2 OF 3

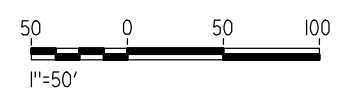
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0257-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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 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
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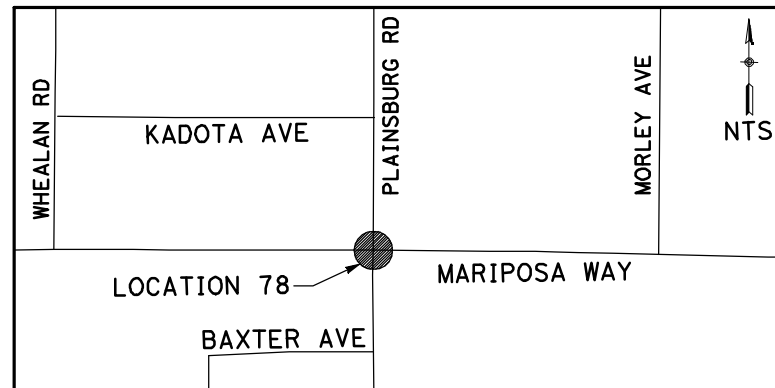
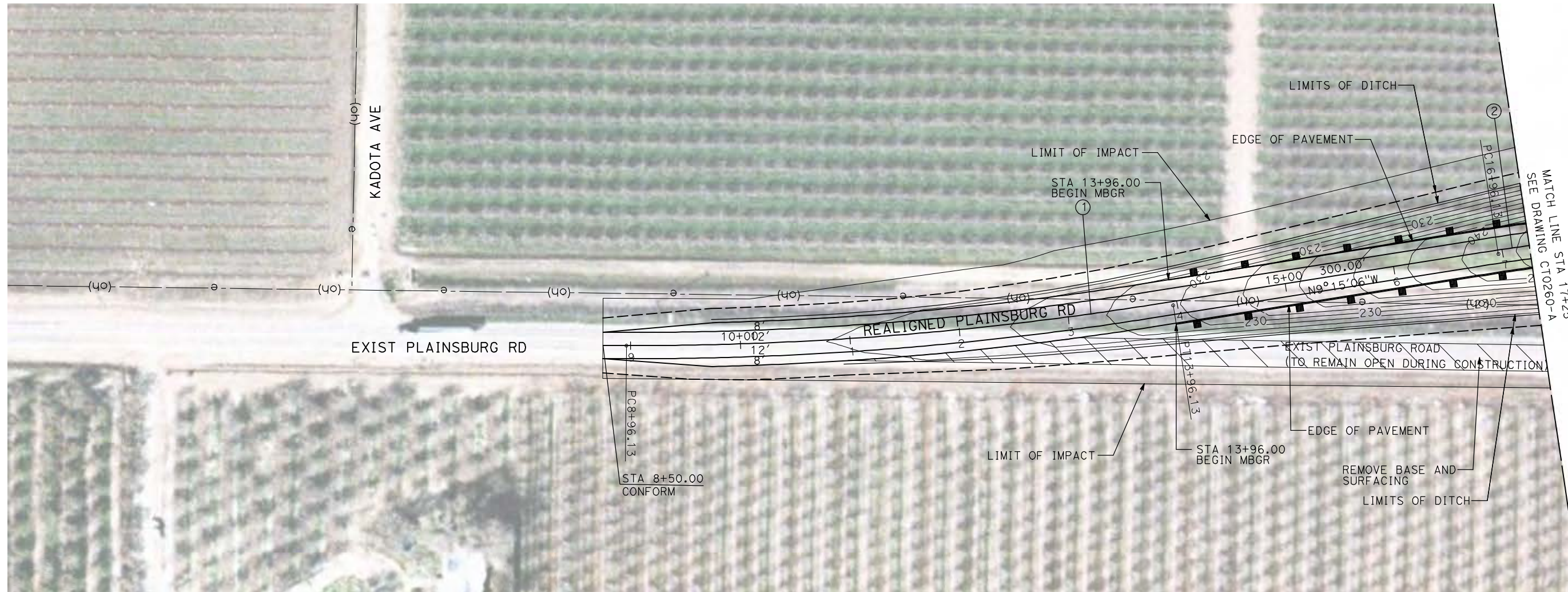
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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

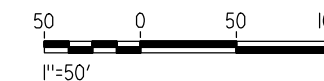
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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH
②	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS 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**

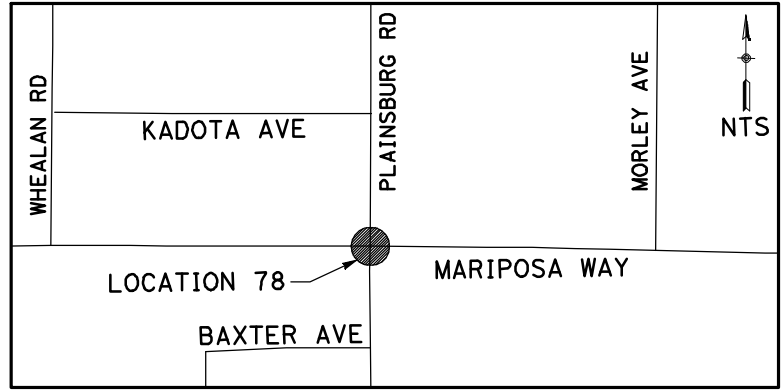
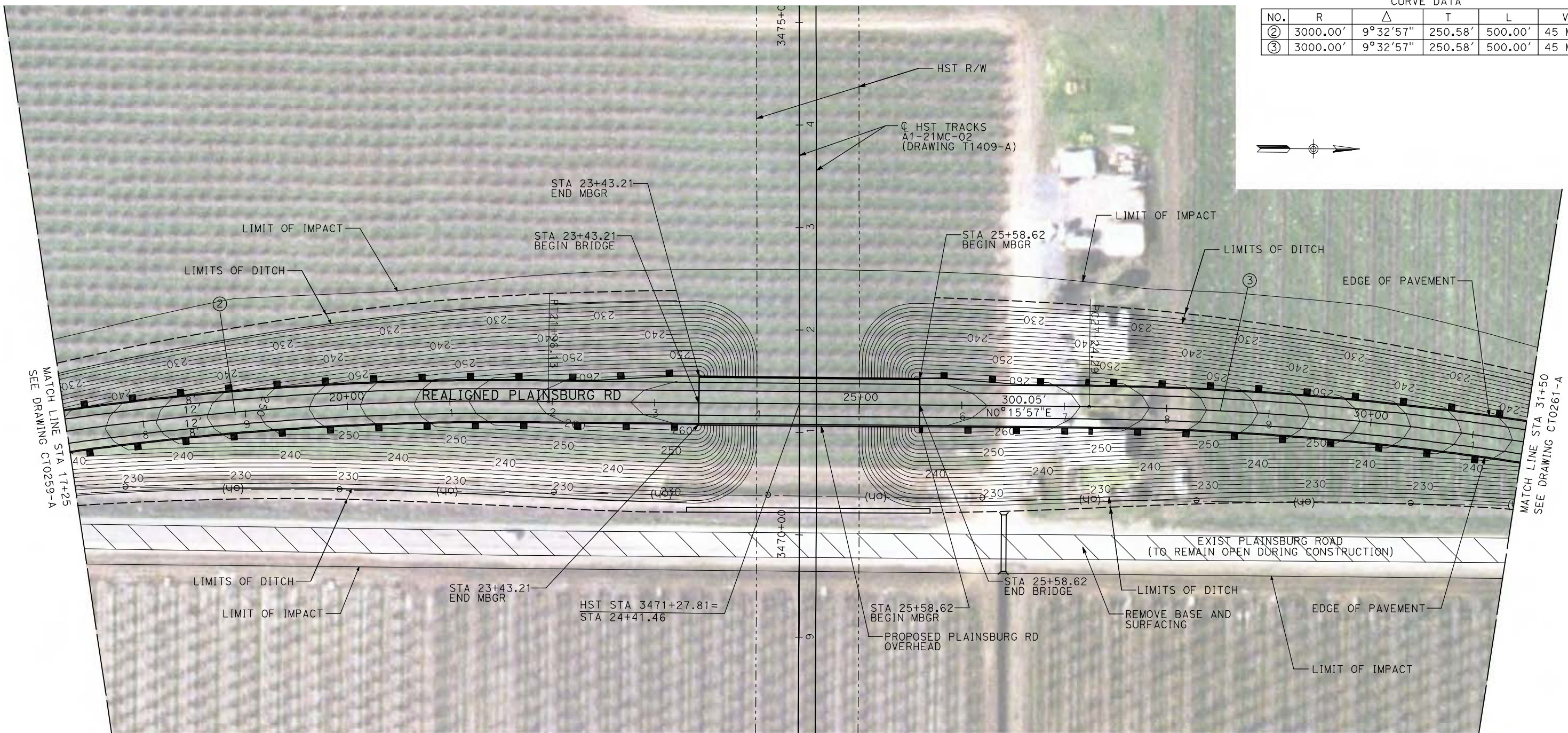


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 1 OF 3

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

4/29/2011 2:46:26 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\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

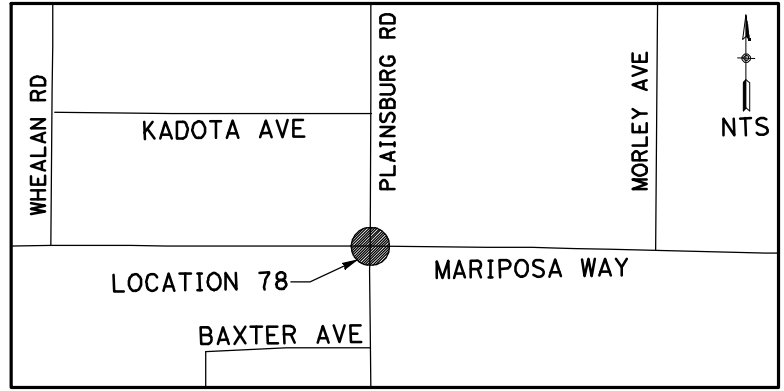
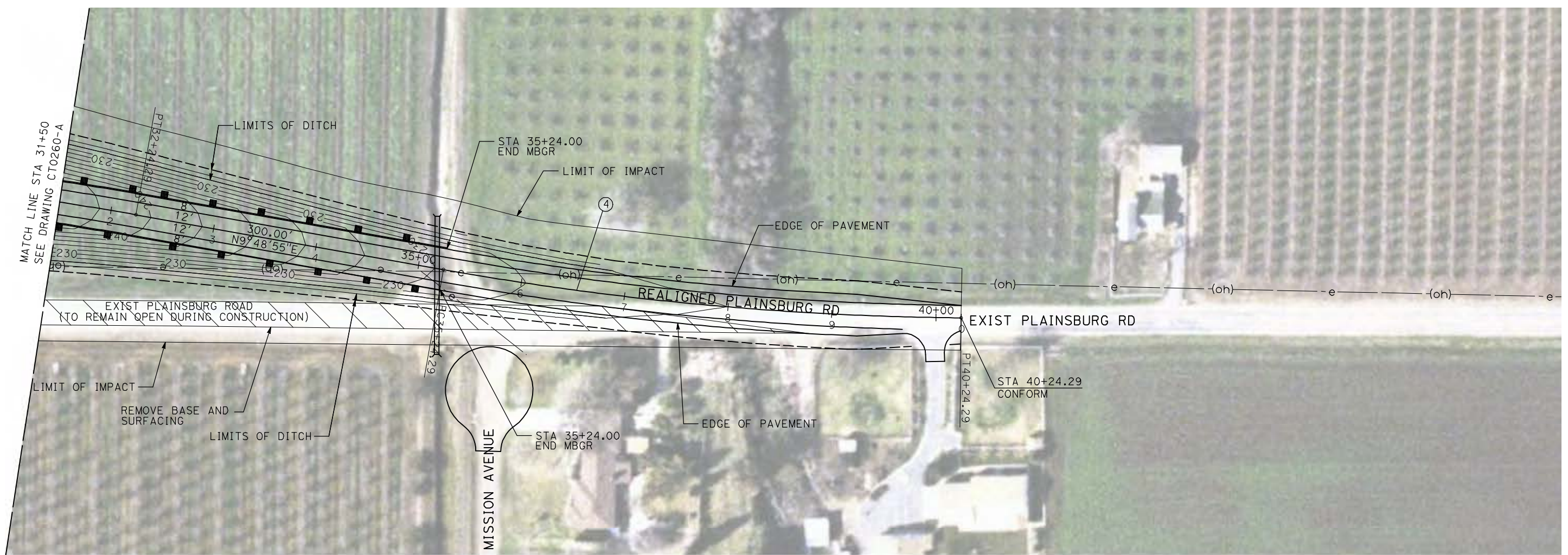


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - PLAINSBURG RD
 LAYOUT
 SHEET 2 OF 3

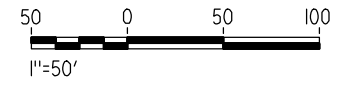
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0260-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:46:34 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

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.



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

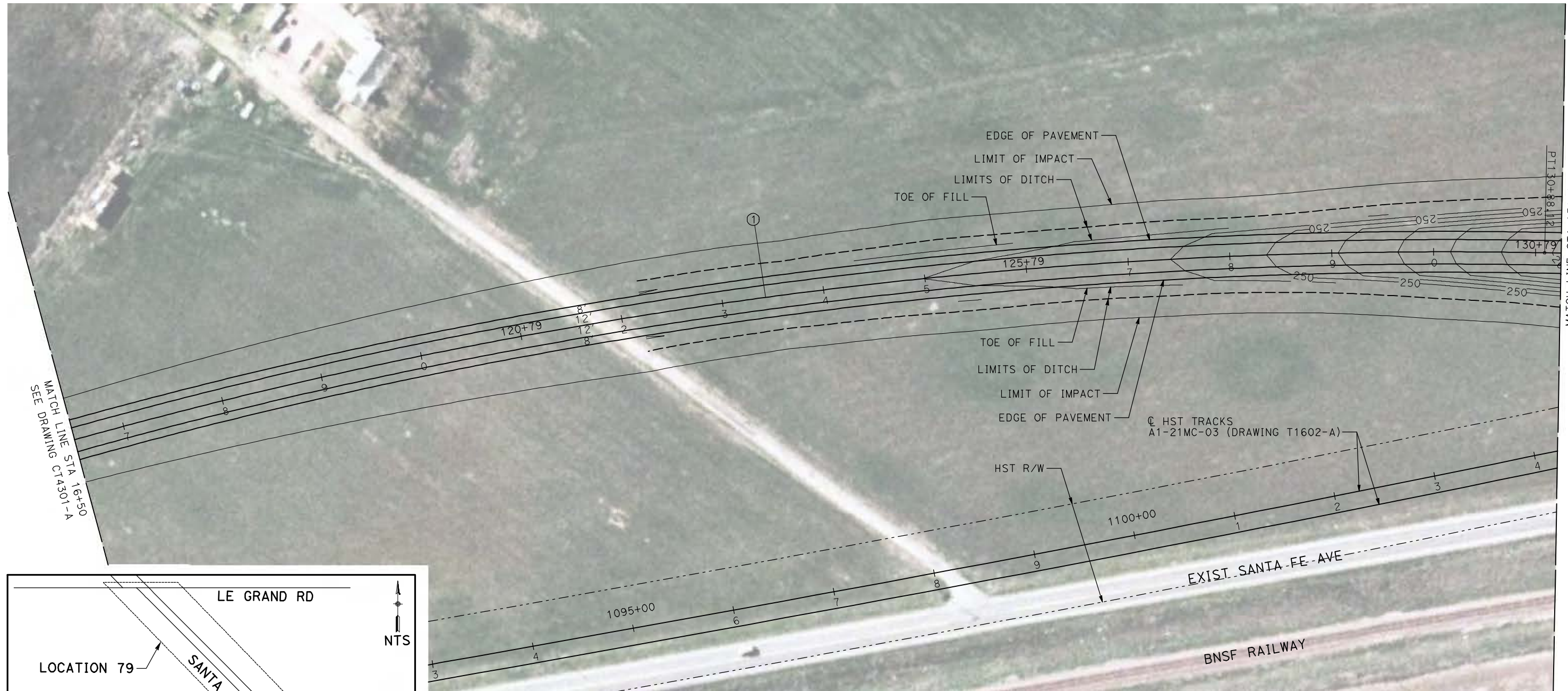
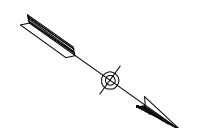
NOT FOR
CONSTRUCTION



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

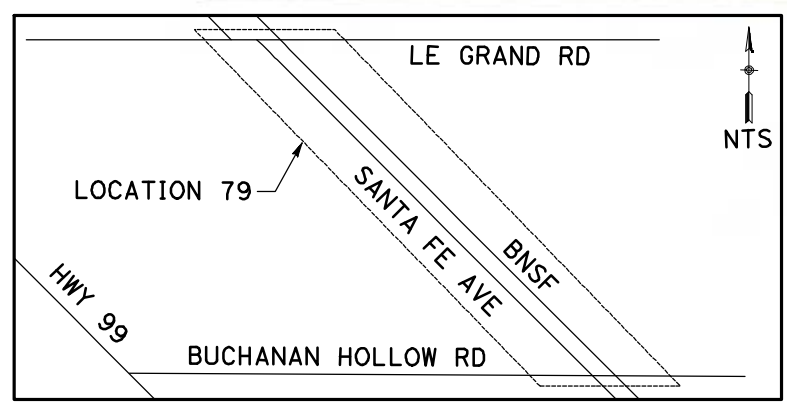
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0261-A
 SCALE
AS SHOWN
 SHEET NO.
OF

CURVE DATA					
NO.	R	Δ	T	L	V
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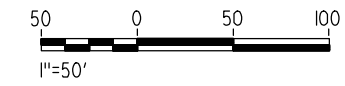


MATCH LINE STA 16+50
SEE DRAWING CT1301-A

MATCH LINE STA 131+25
SEE DRAWING CT0301-A



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



4/29/2011 2:53:44 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-A - 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

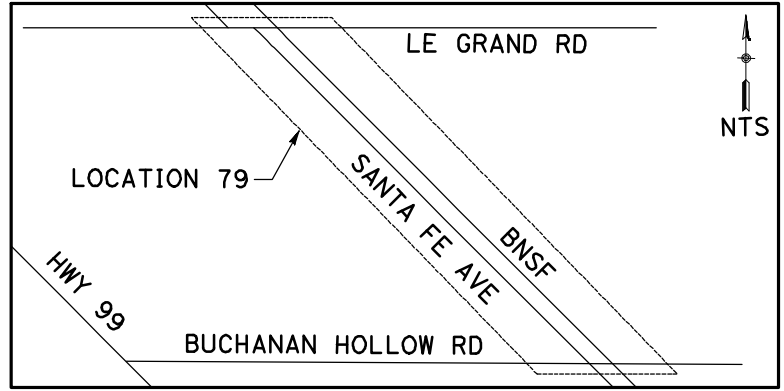
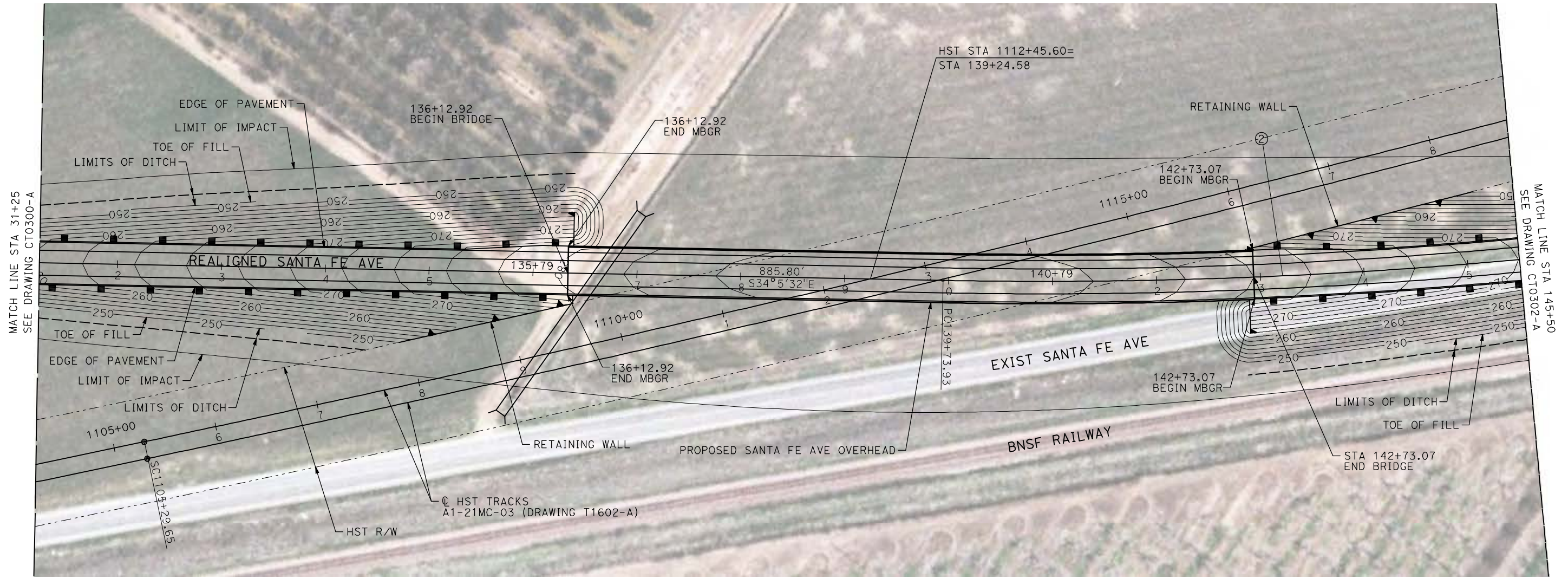
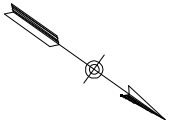


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. SANTA FE AVE
LAYOUT
SHEET 1 OF 3

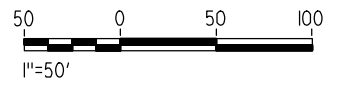
CONTRACT NO.
HST06-007
DRAWING NO.
CT0300-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:53:36 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\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

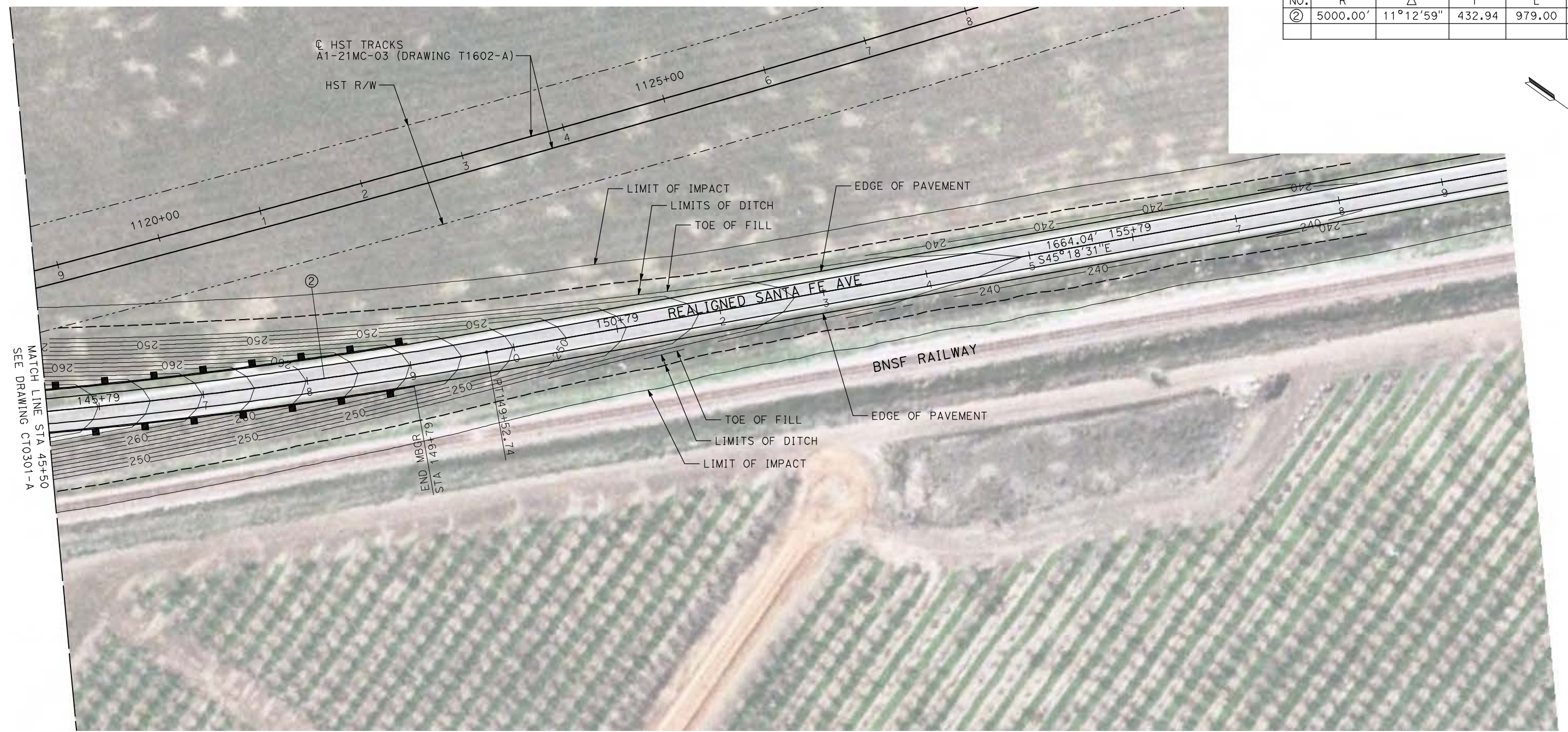


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. SANTA FE AVE
 LAYOUT
 SHEET 2 OF 3

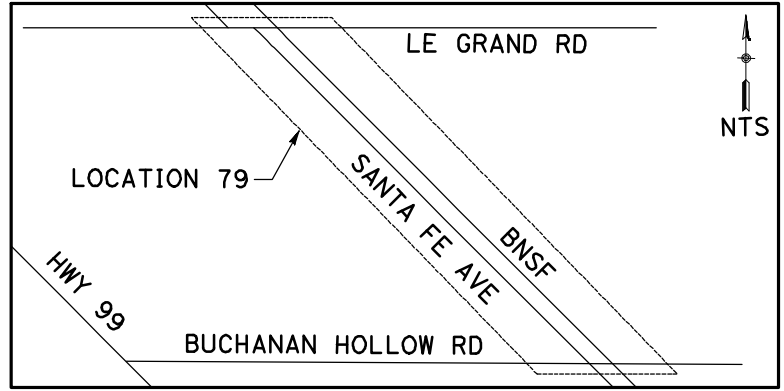
CONTRACT NO.
HST06-007
 DRAWING NO.
CT0301-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:53:28 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-A - Ave 2124 Wye Grade Separation\Layout\WF-CT-0302-A.dgn

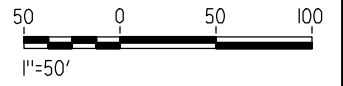
CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00'	11°12'59"	432.94	979.00	45 MPH



MATCH LINE STA 45+50
SEE DRAWING CT0301-A



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



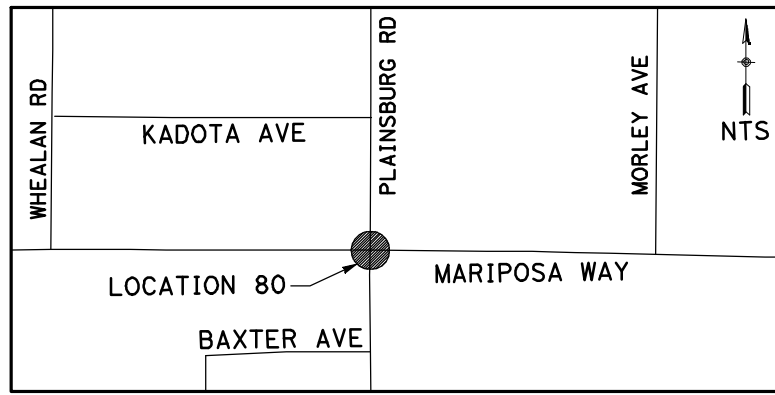
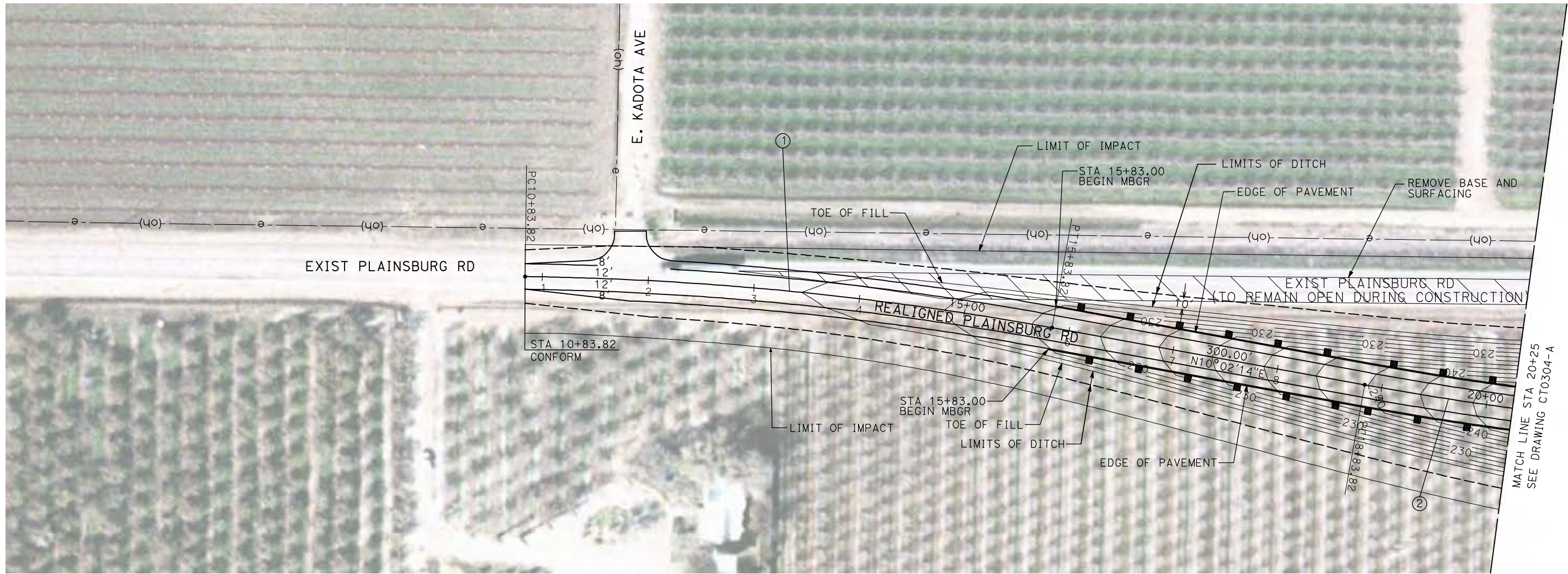
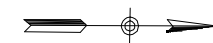
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. SANTA FE AVE
LAYOUT
SHEET 3 OF 3

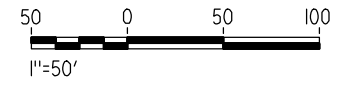
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HST06-007
DRAWING NO.
CT0302-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:53:21 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave214Mc03\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

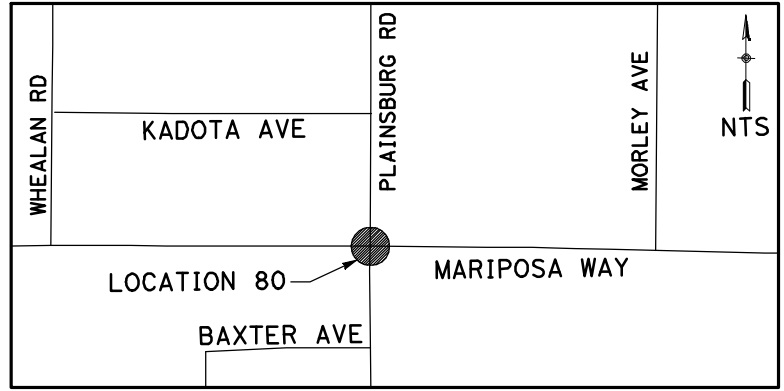
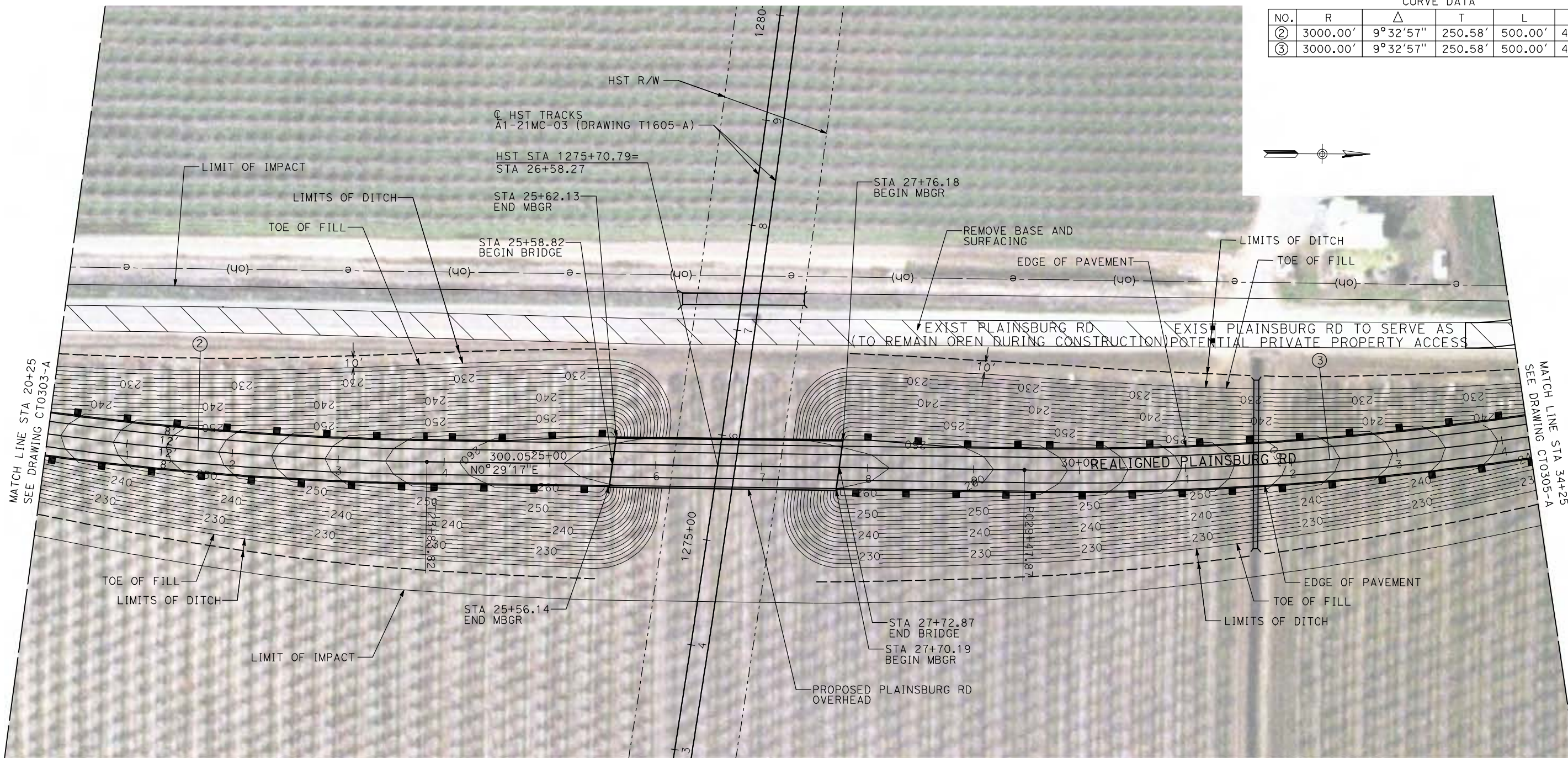


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0303-A
SCALE
AS SHOWN
SHEET NO.
OF

4/29/2011 2:53:12 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\1-Ave214Mc03\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

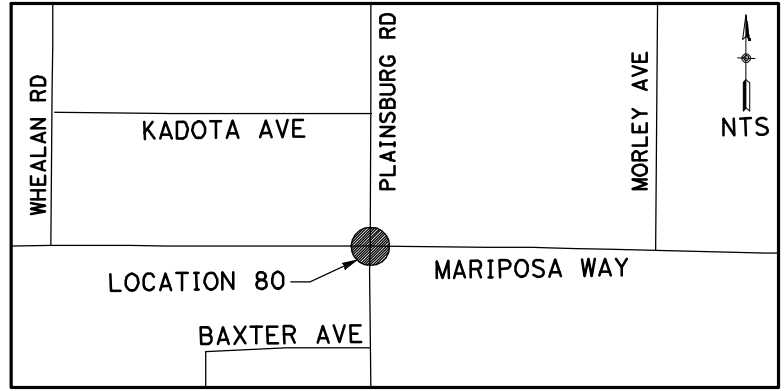
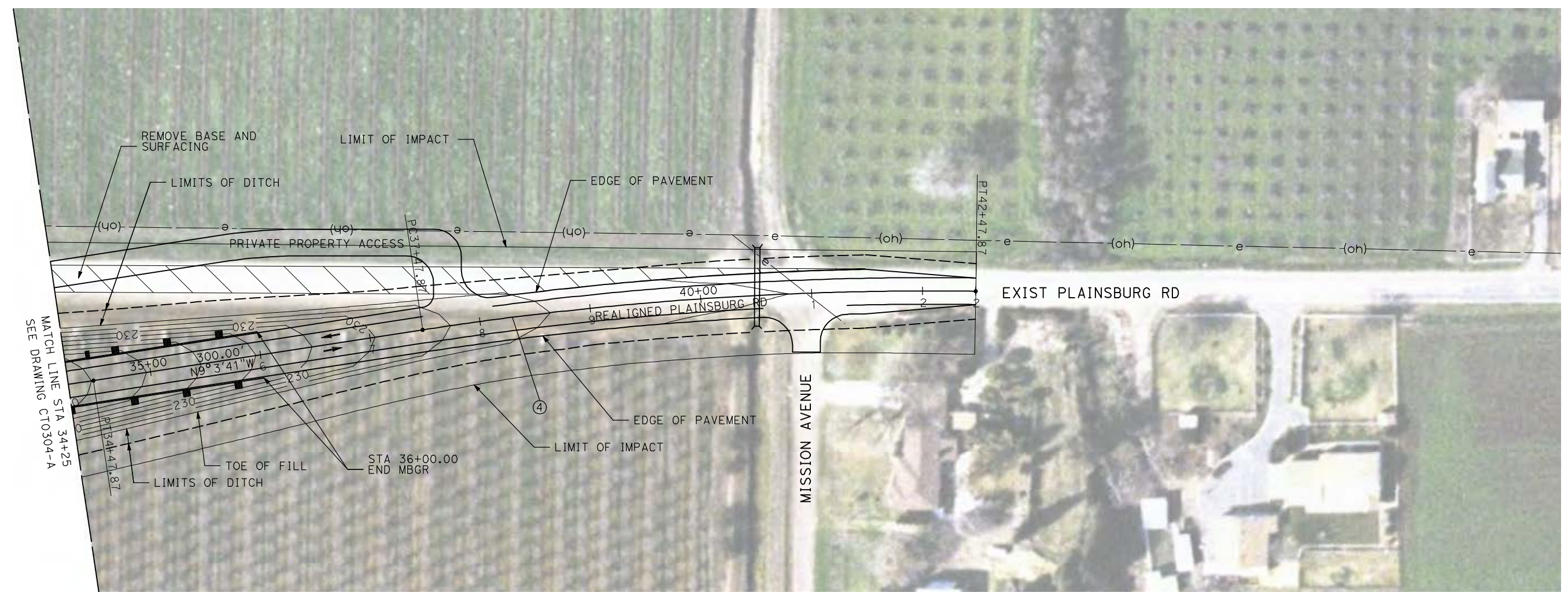


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 2 OF 3

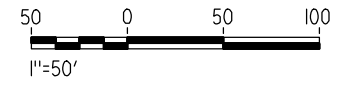
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DRAWING NO.
CT0304-A
SCALE
AS SHOWN
SHEET NO.
OF

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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 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
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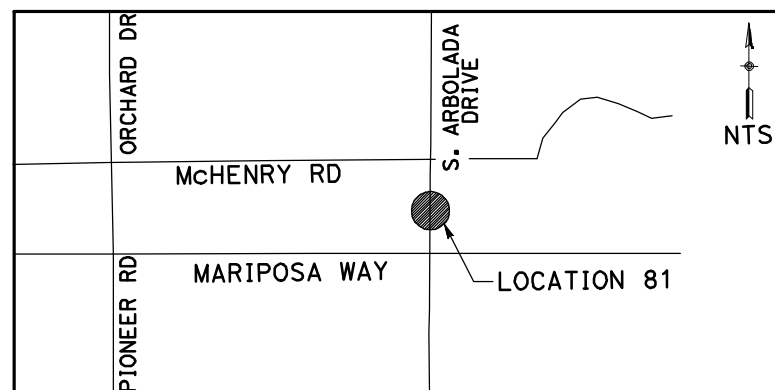
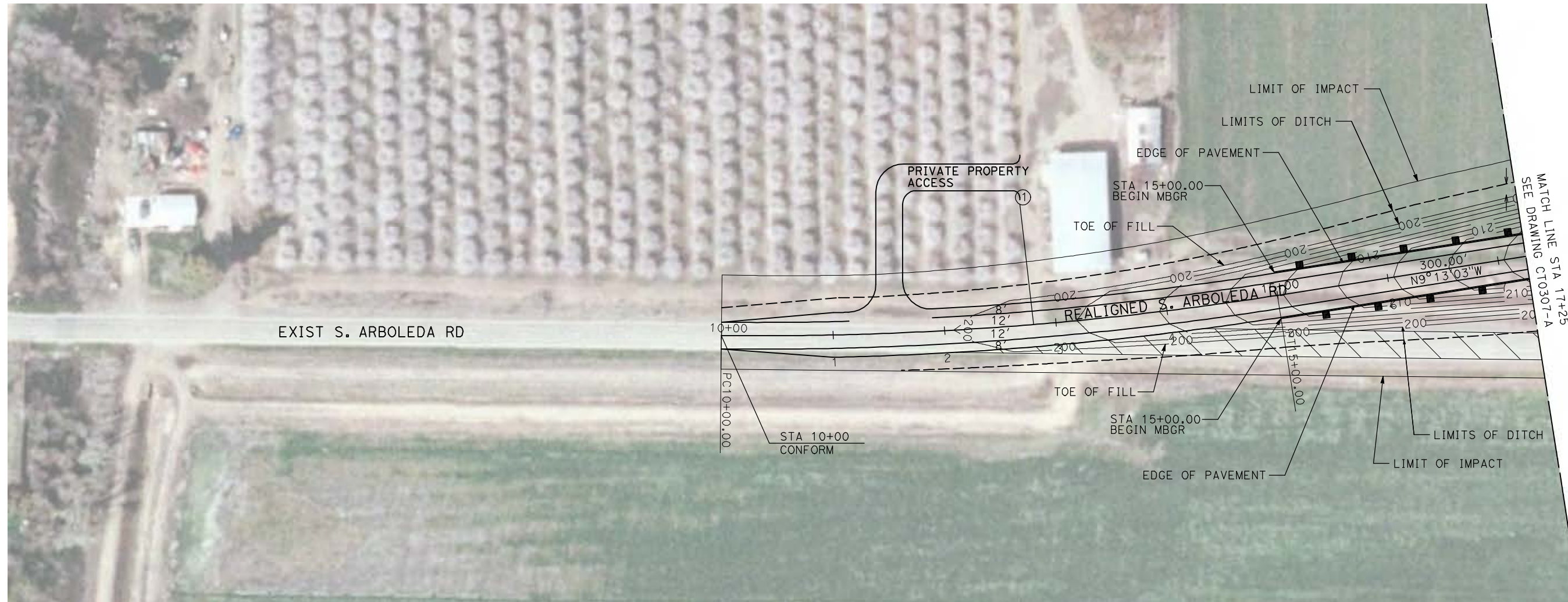
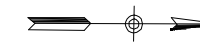
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - PLAINSBURG RD
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0305-A
SCALE
AS SHOWN
SHEET NO.
OF

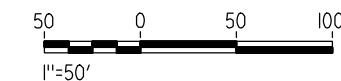
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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	9°32'57"	250.58'	500.00'	45 MPH



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**

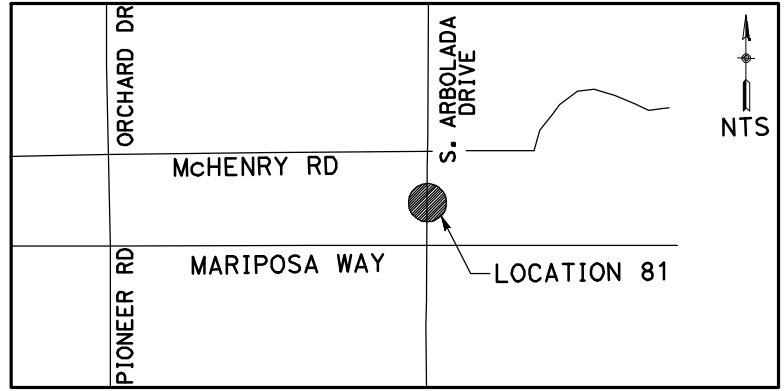
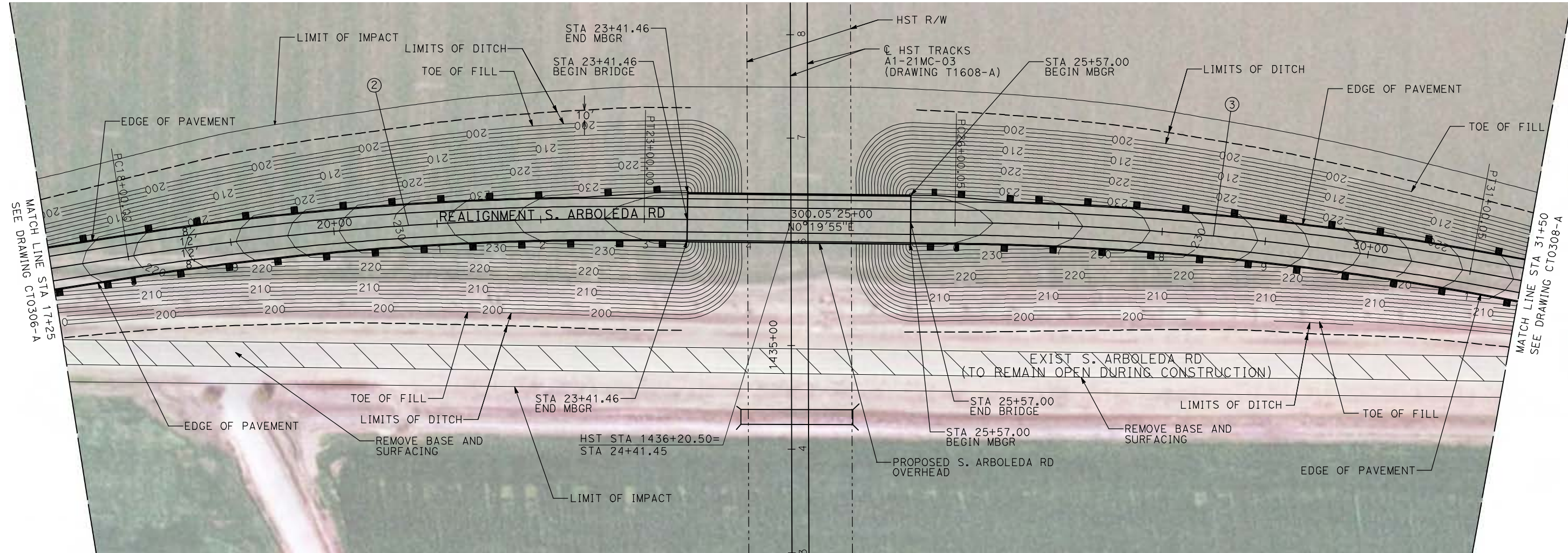


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. ARBOLEDA RD
LAYOUT
SHEET 1 OF 3

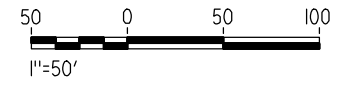
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HST06-007
DRAWING NO.
CT0306-A
SCALE
AS SHOWN
SHEET NO.
OF

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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 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

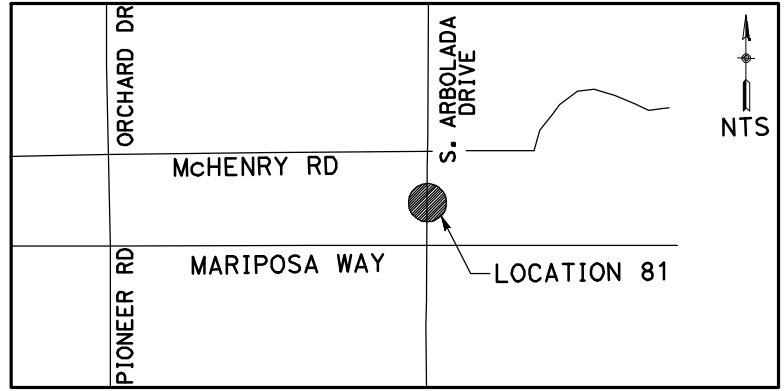
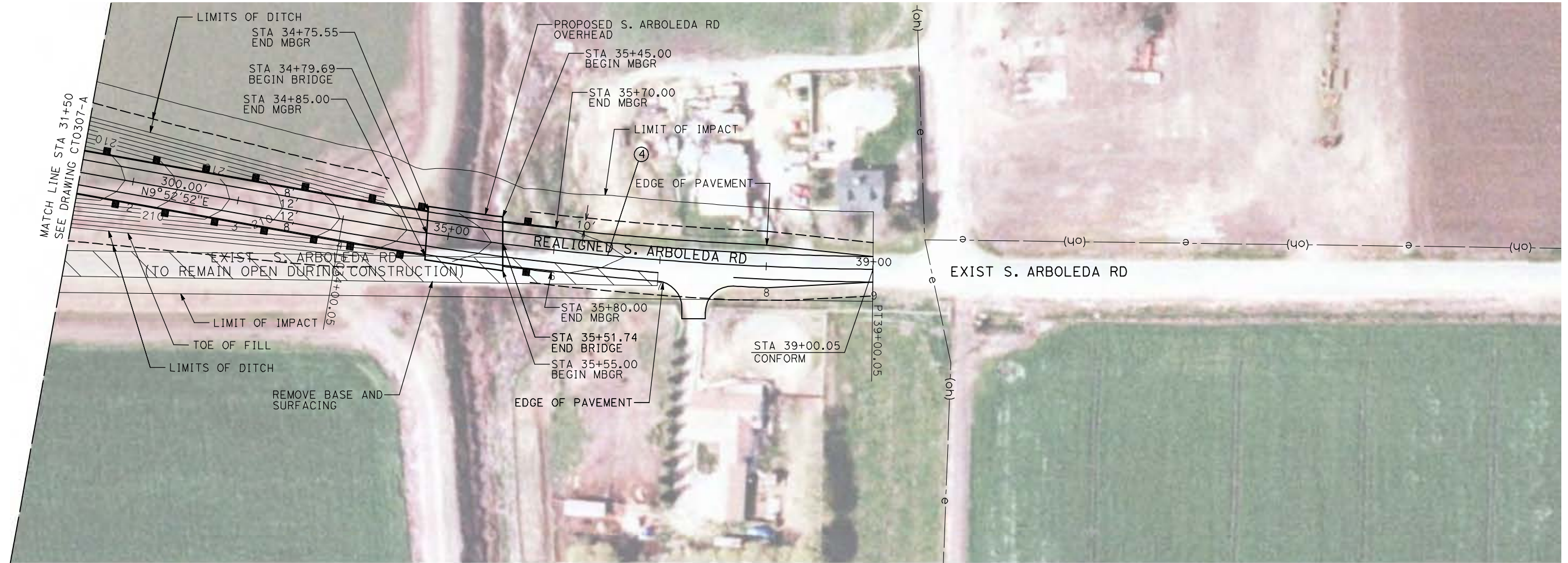


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. ARBOLEDA RD
LAYOUT
SHEET 2 OF 3

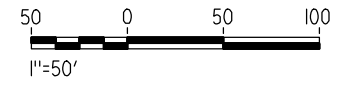
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HST06-007
DRAWING NO.
CT0307-A
SCALE
AS SHOWN
SHEET NO.
OF

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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

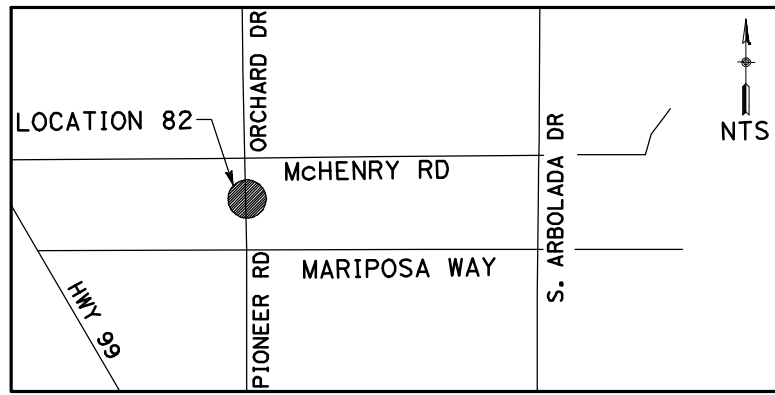
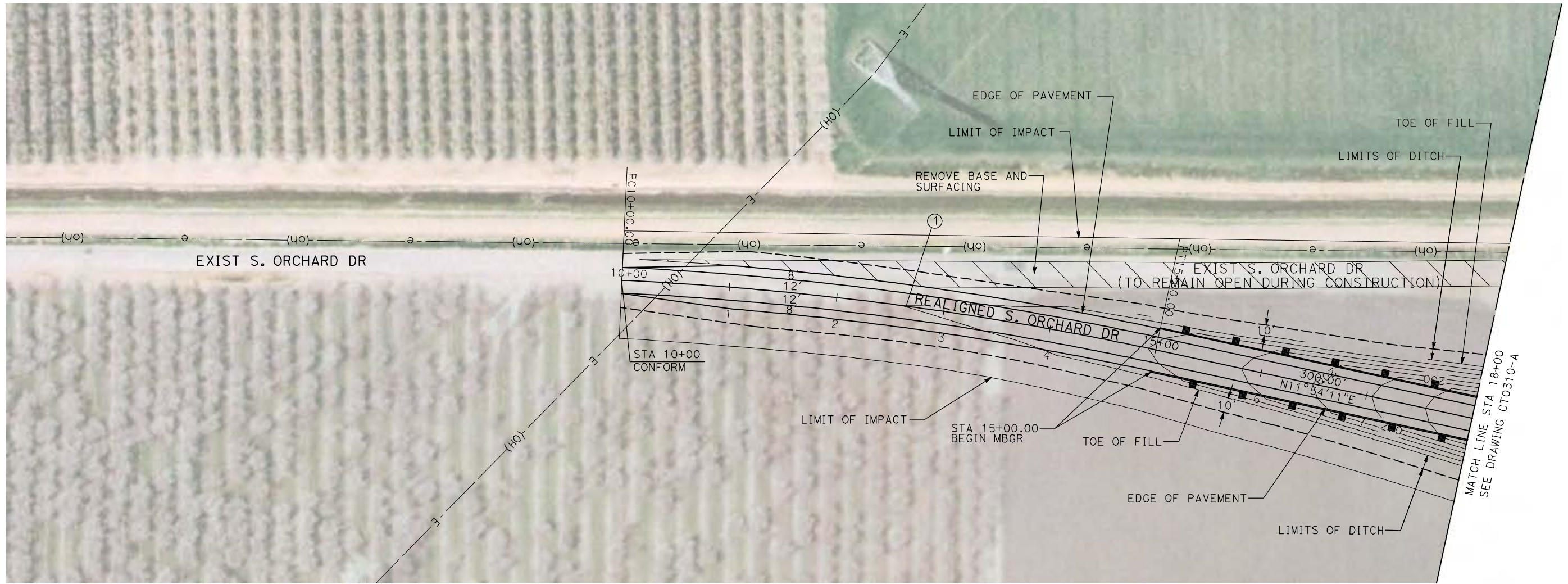
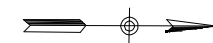


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. ARBOLEDA RD
 LAYOUT
 SHEET 3 OF 3

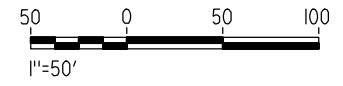
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 DRAWING NO.
CT0308-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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

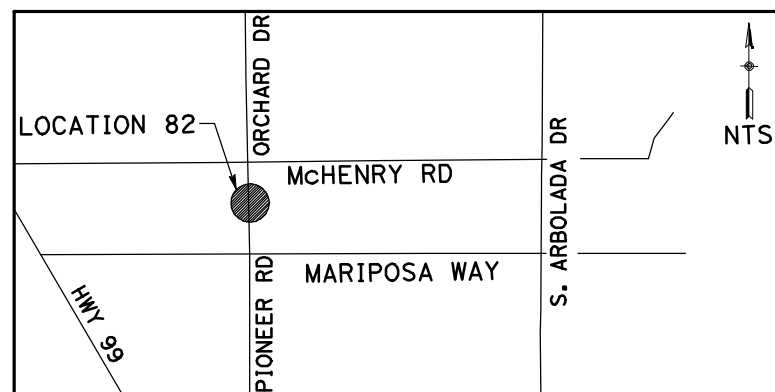
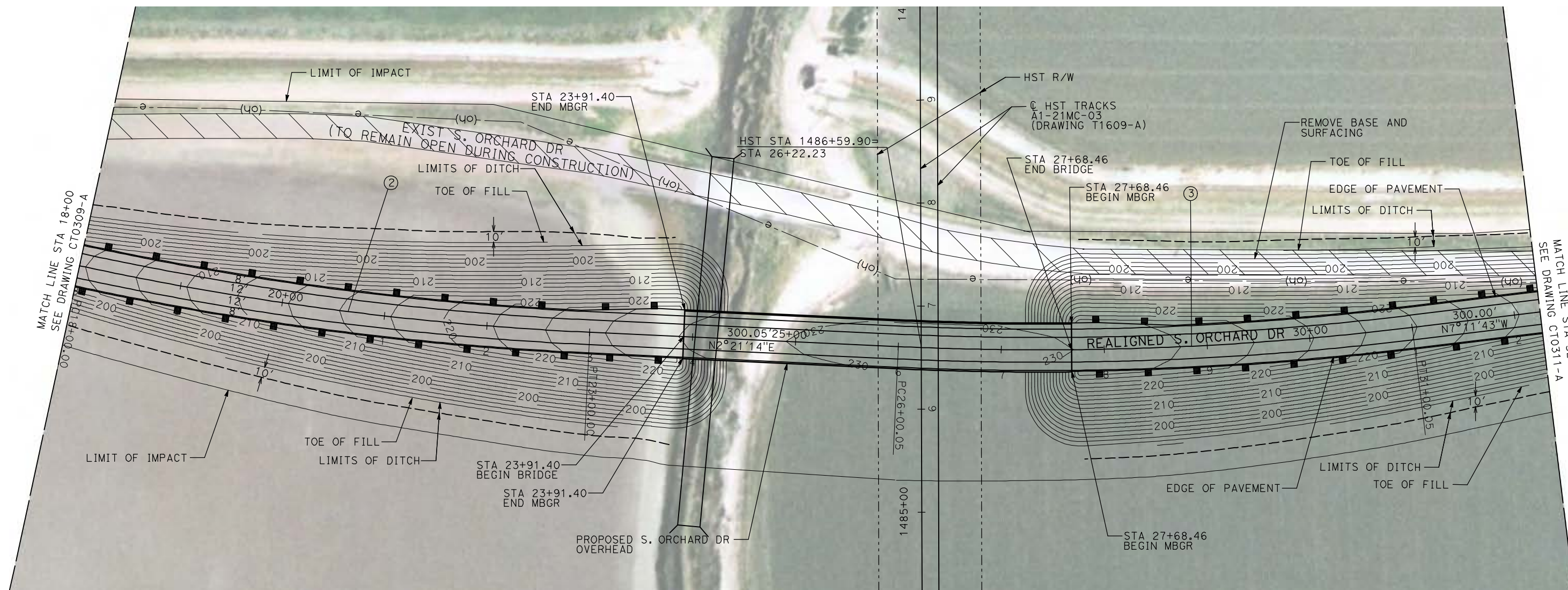
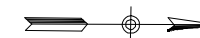


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. ORCHARD DR
 LAYOUT
 SHEET 1 OF 3

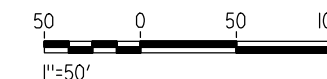
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 DRAWING NO.
CT0309-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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 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**

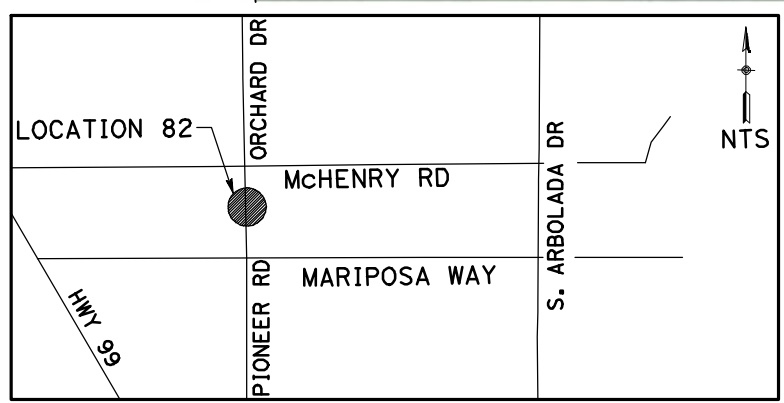
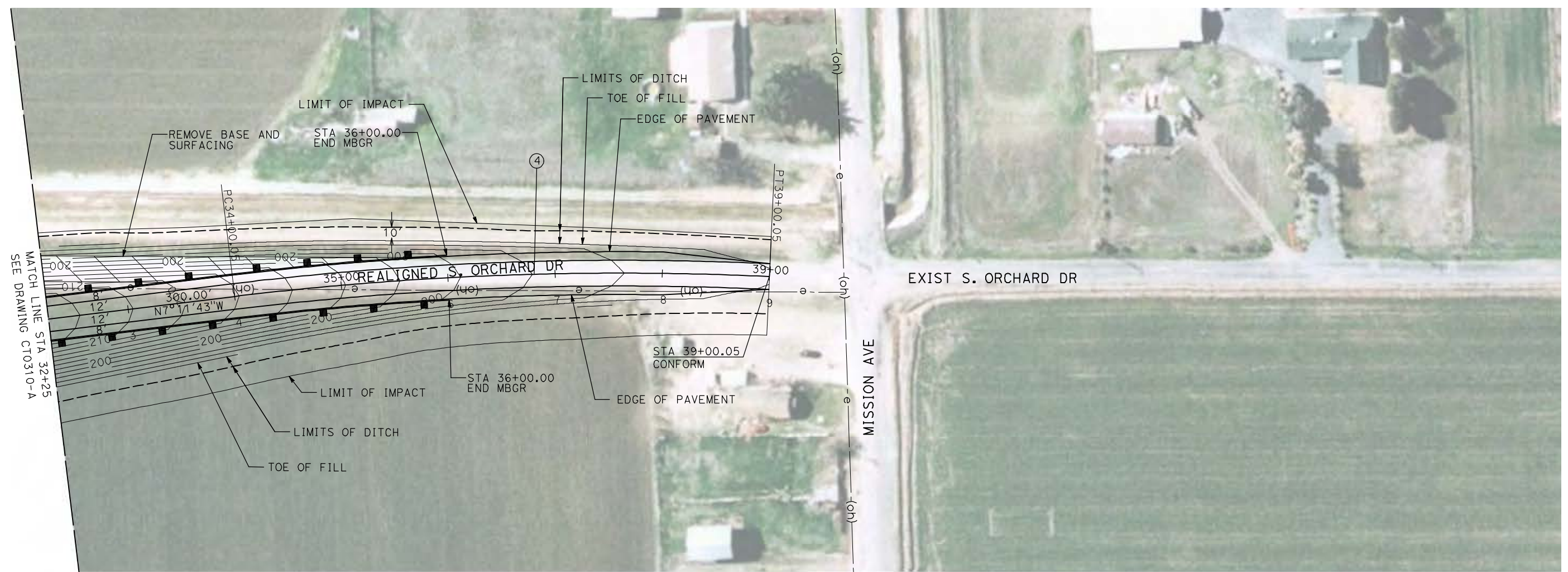


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - S. ORCHARD DR
LAYOUT
SHEET 2 OF 3

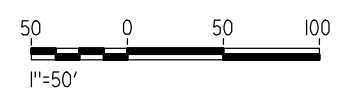
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HST06-007
DRAWING NO.
CT0310-A
SCALE
AS SHOWN
SHEET NO.
OF

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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

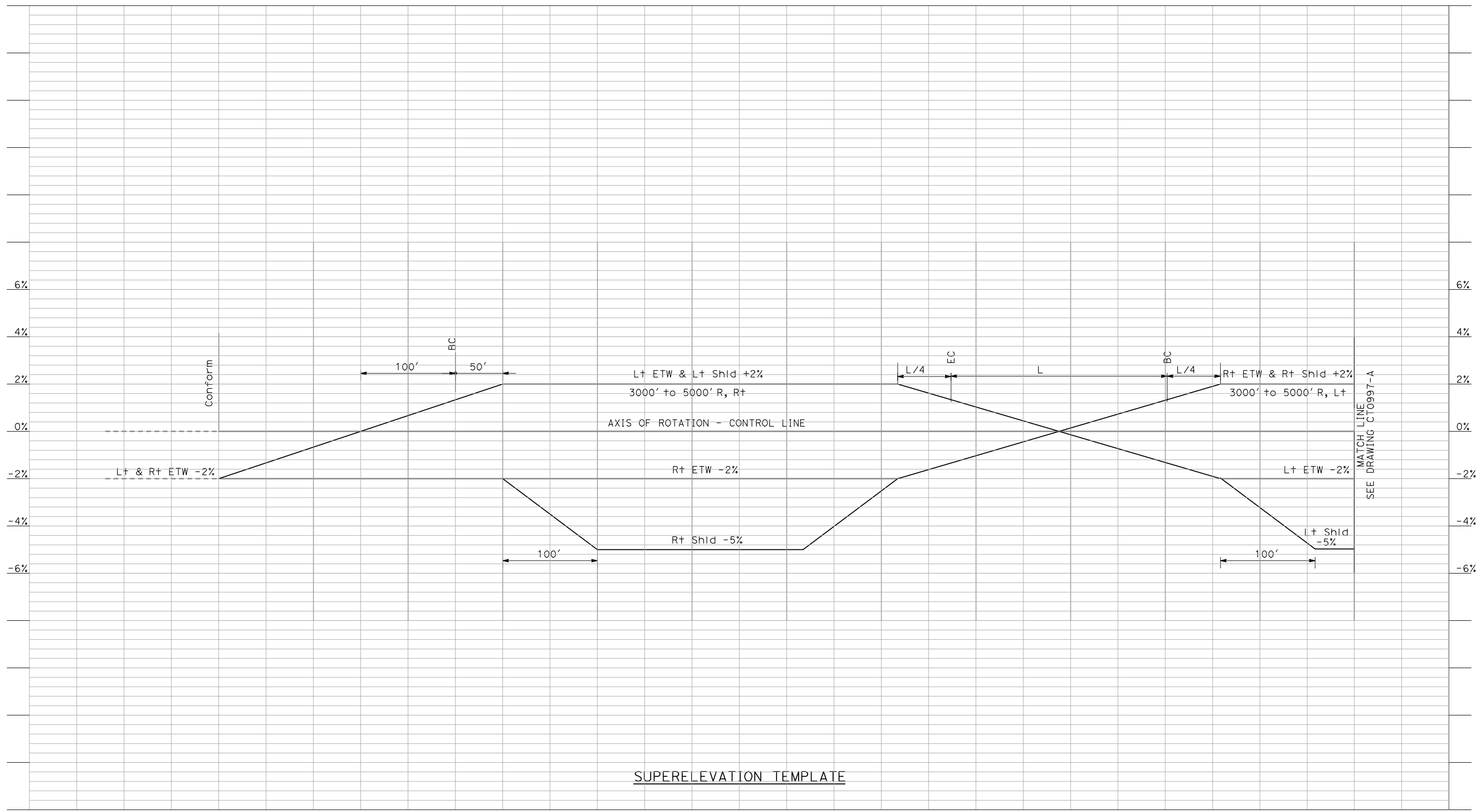


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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

4/29/2011 2:01:31 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 1A - Ave 21 Wye Grade Separation\Profile\MF-CT-0996-A.dgn



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

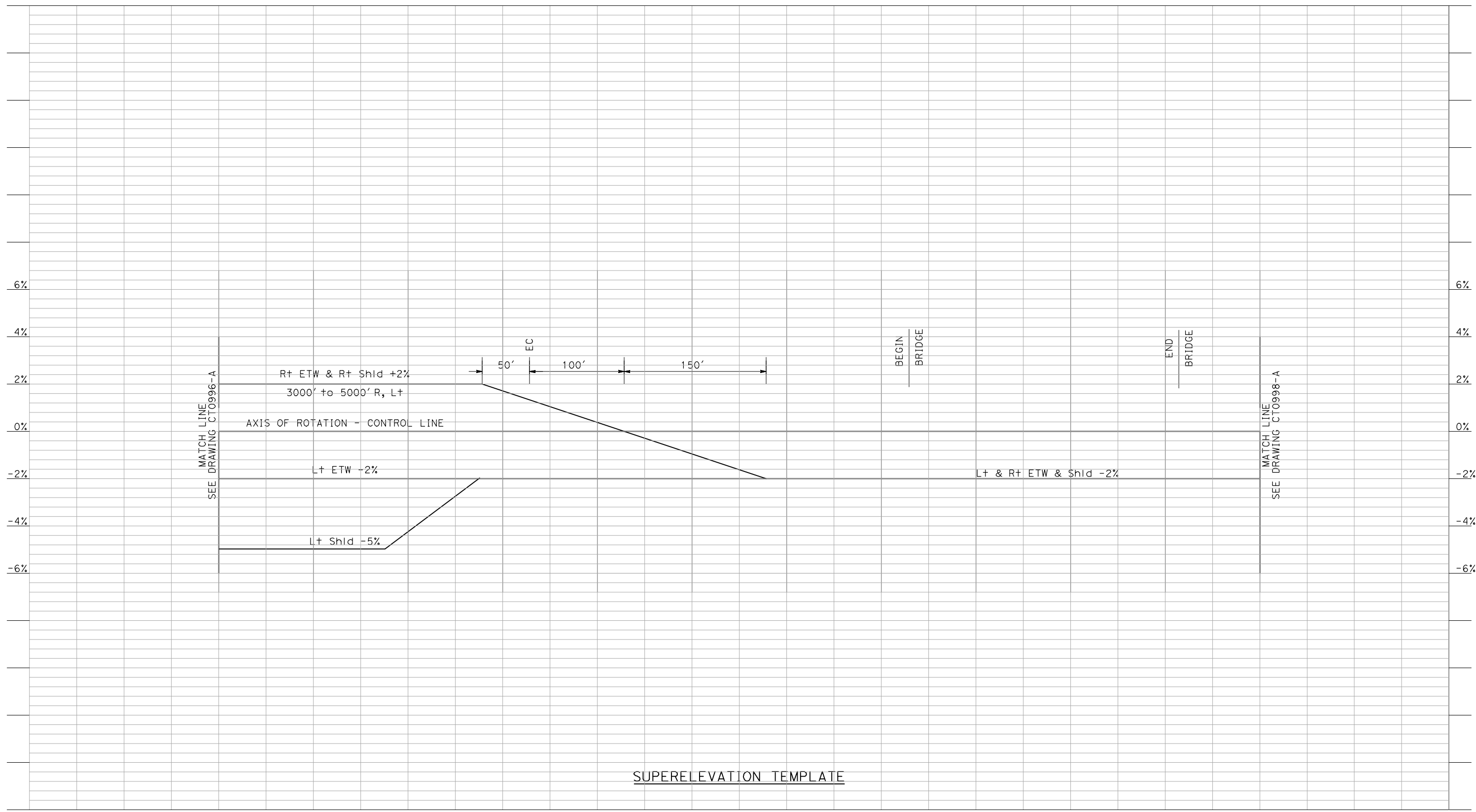
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 21 WYE
 GRADE SEPARATION
 SUPERELEVATION TEMPLATE
 SHEET 1 OF 4

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT0996-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:01:34 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 1A - Ave 21 Wye Grade Separation\Profile\MF-CT-0997-A.dgn



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

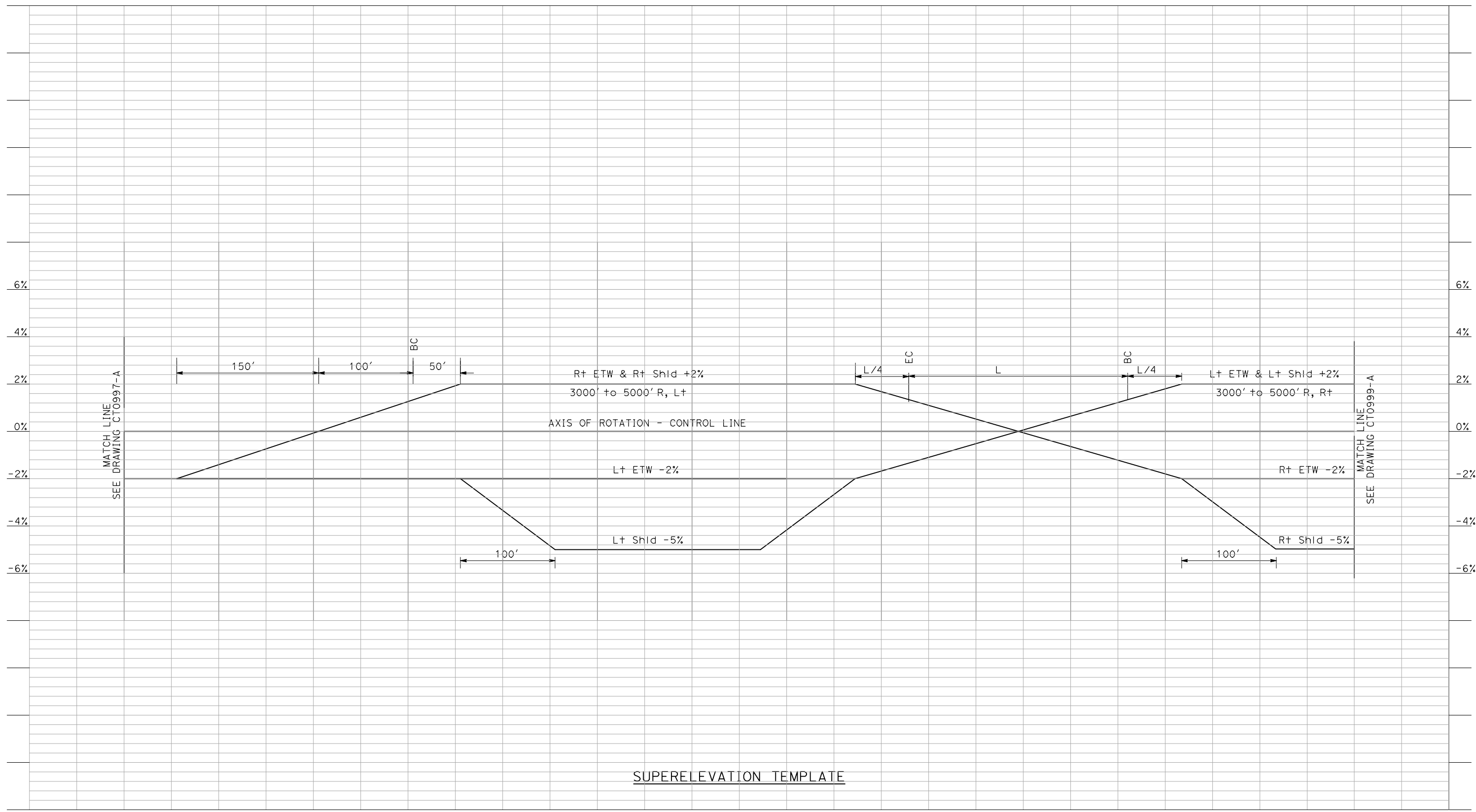
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 21 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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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

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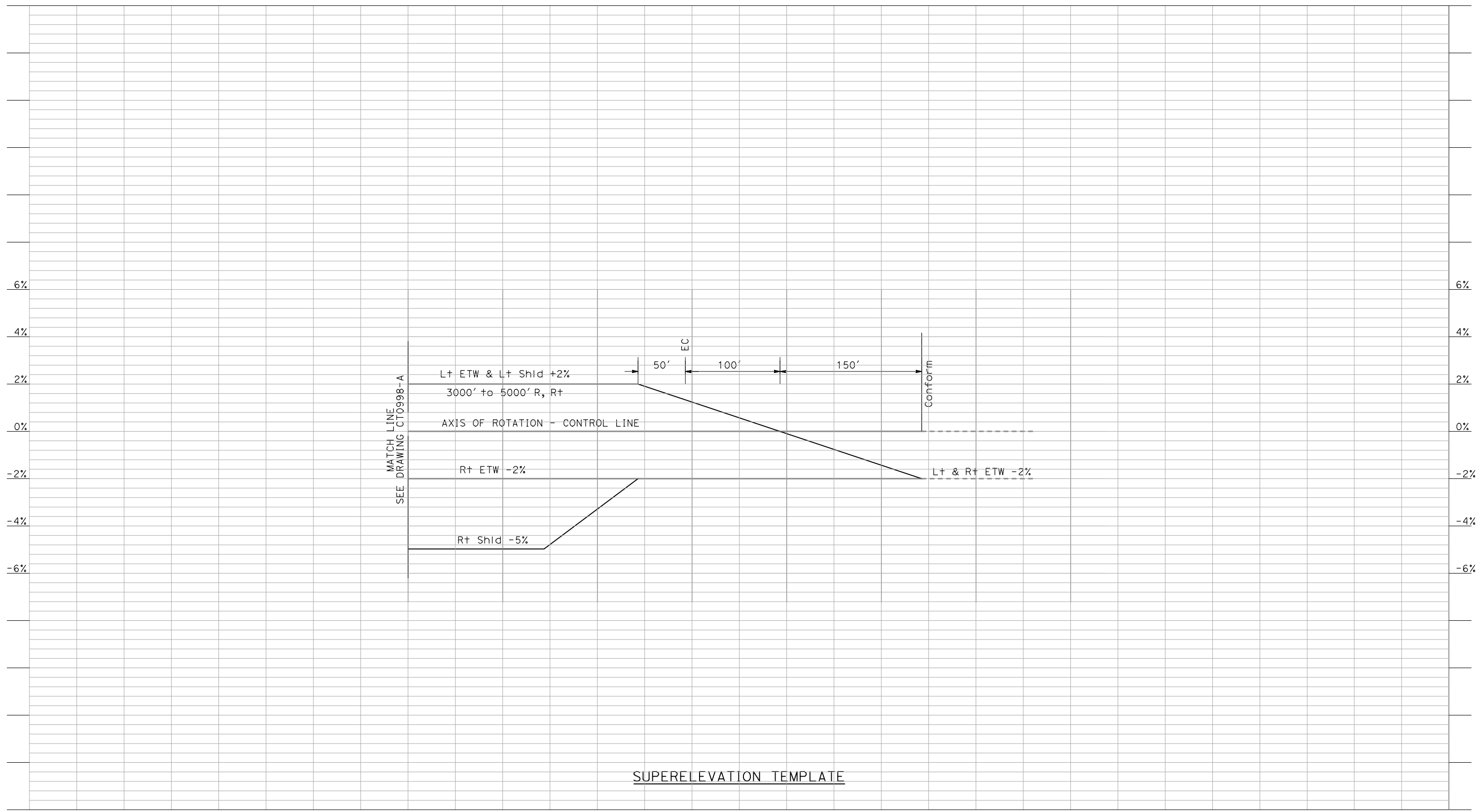
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 21 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
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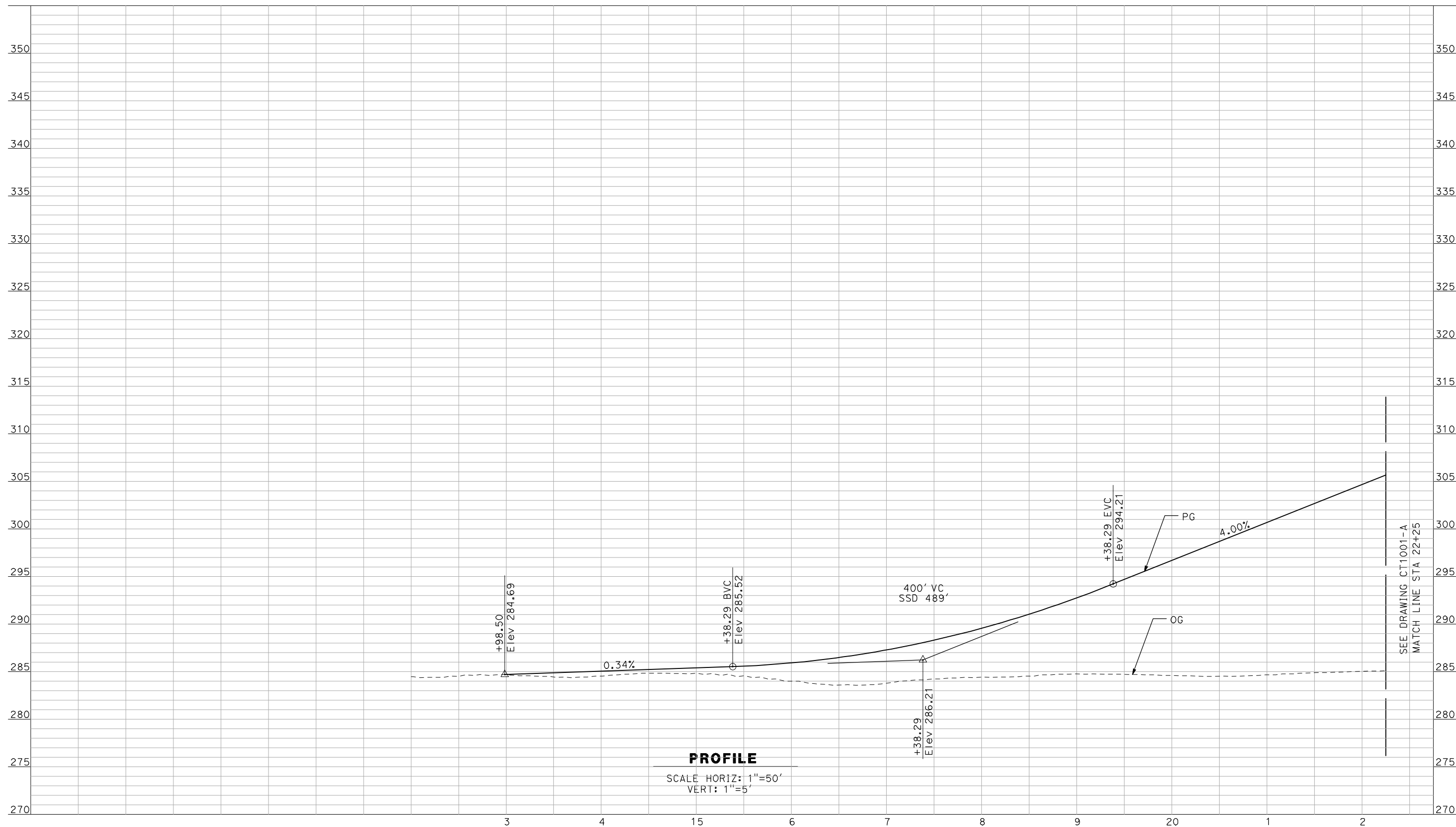
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 21 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'

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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

RECORD SET
15% DESIGN
SUBMITTAL

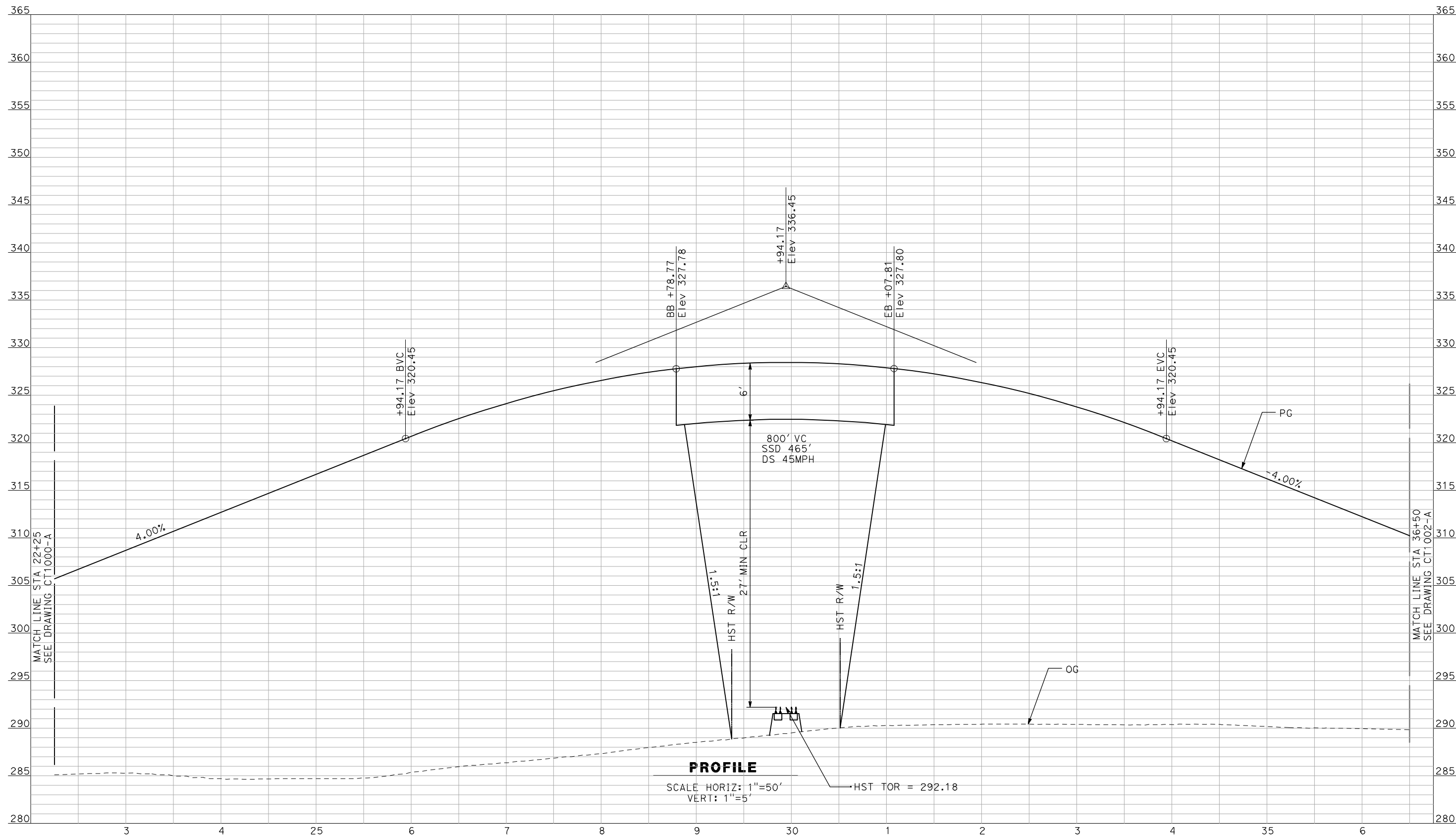
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 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'

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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

RECORD SET
15% DESIGN
SUBMITTAL

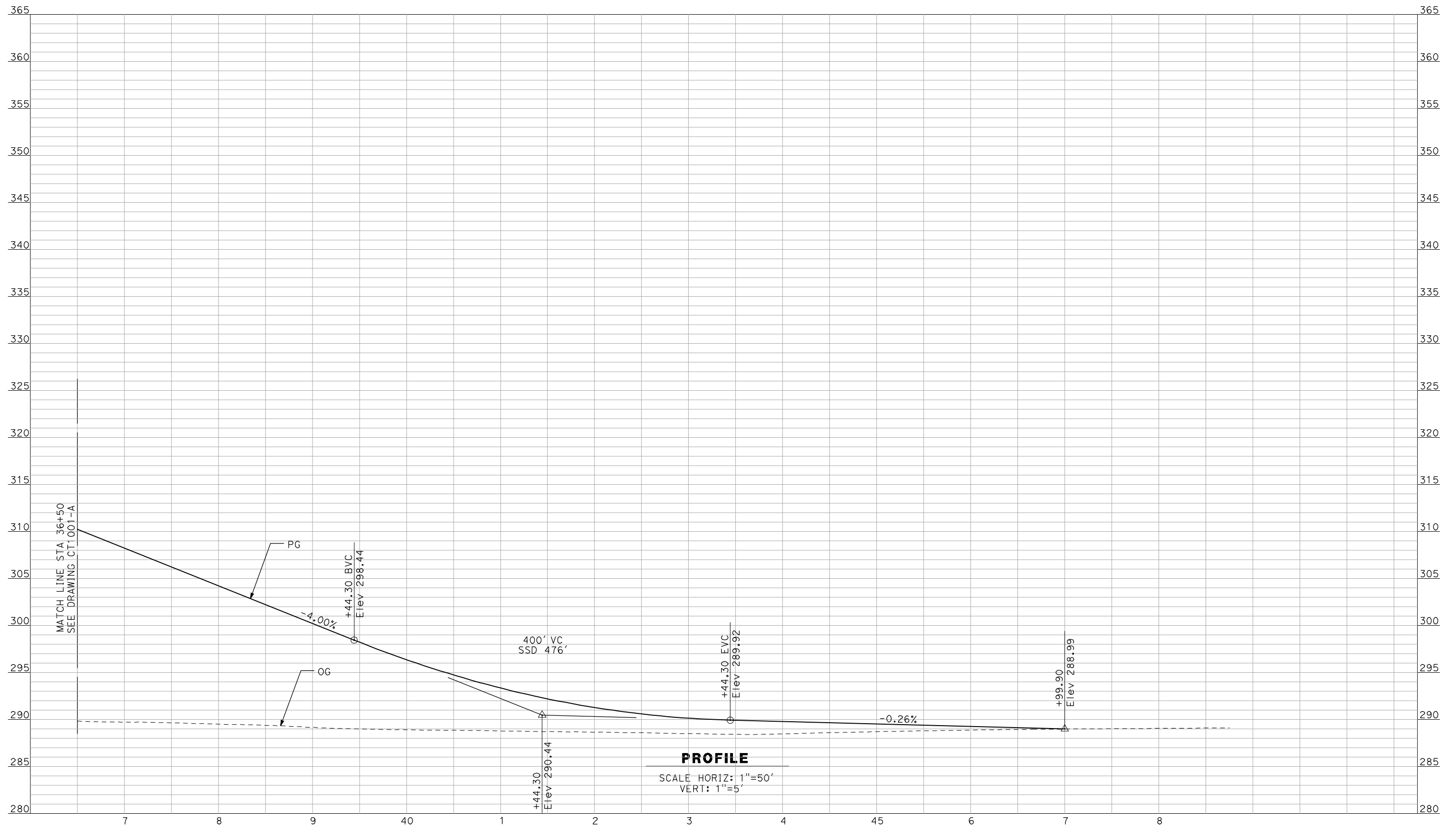
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 9
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1001-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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

RECORD SET
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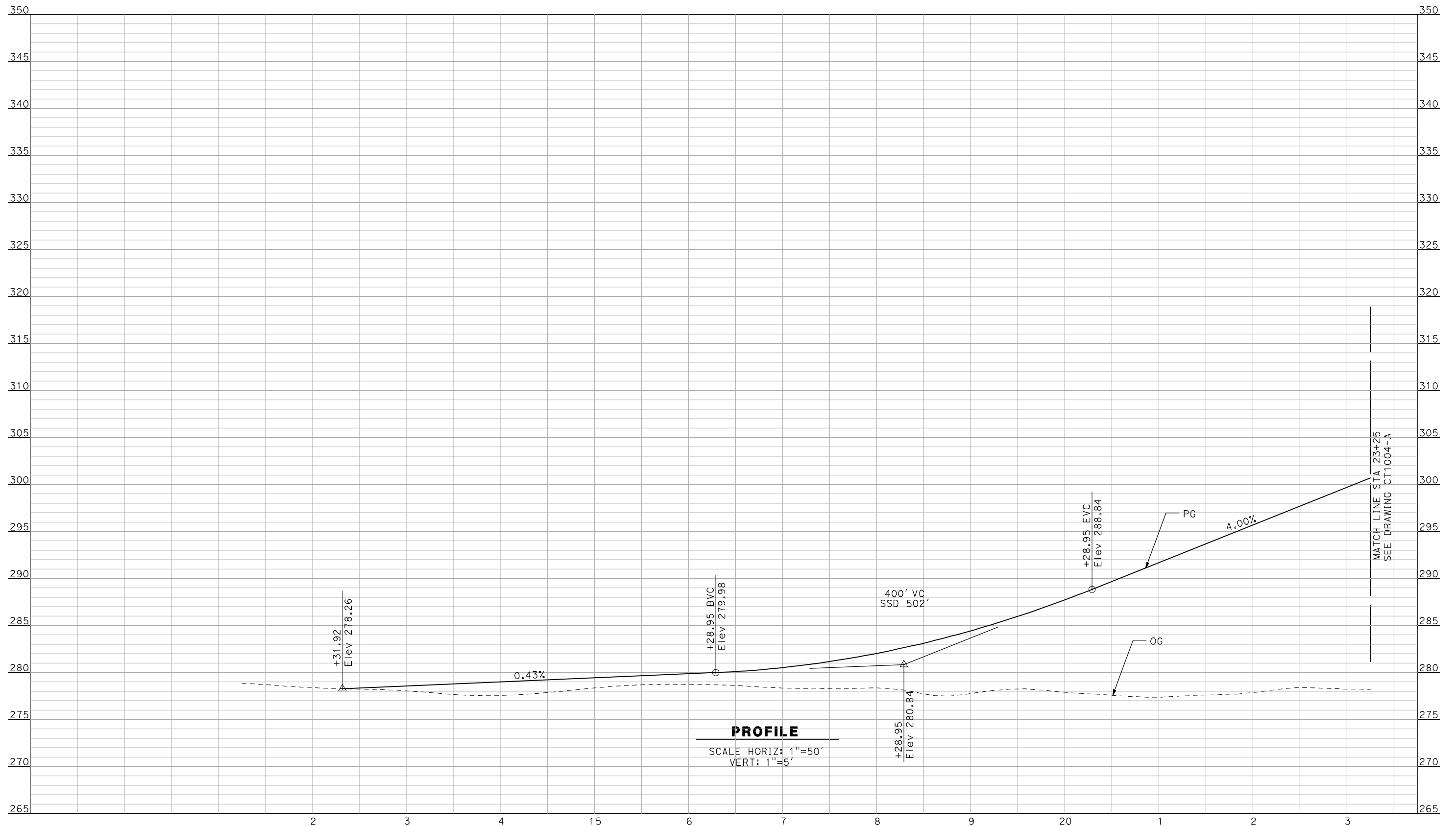
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 9
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1002-A
 SCALE
 AS SHOWN
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REV	DATE	BY	CHK	APP	DESCRIPTION

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

RECORD SET
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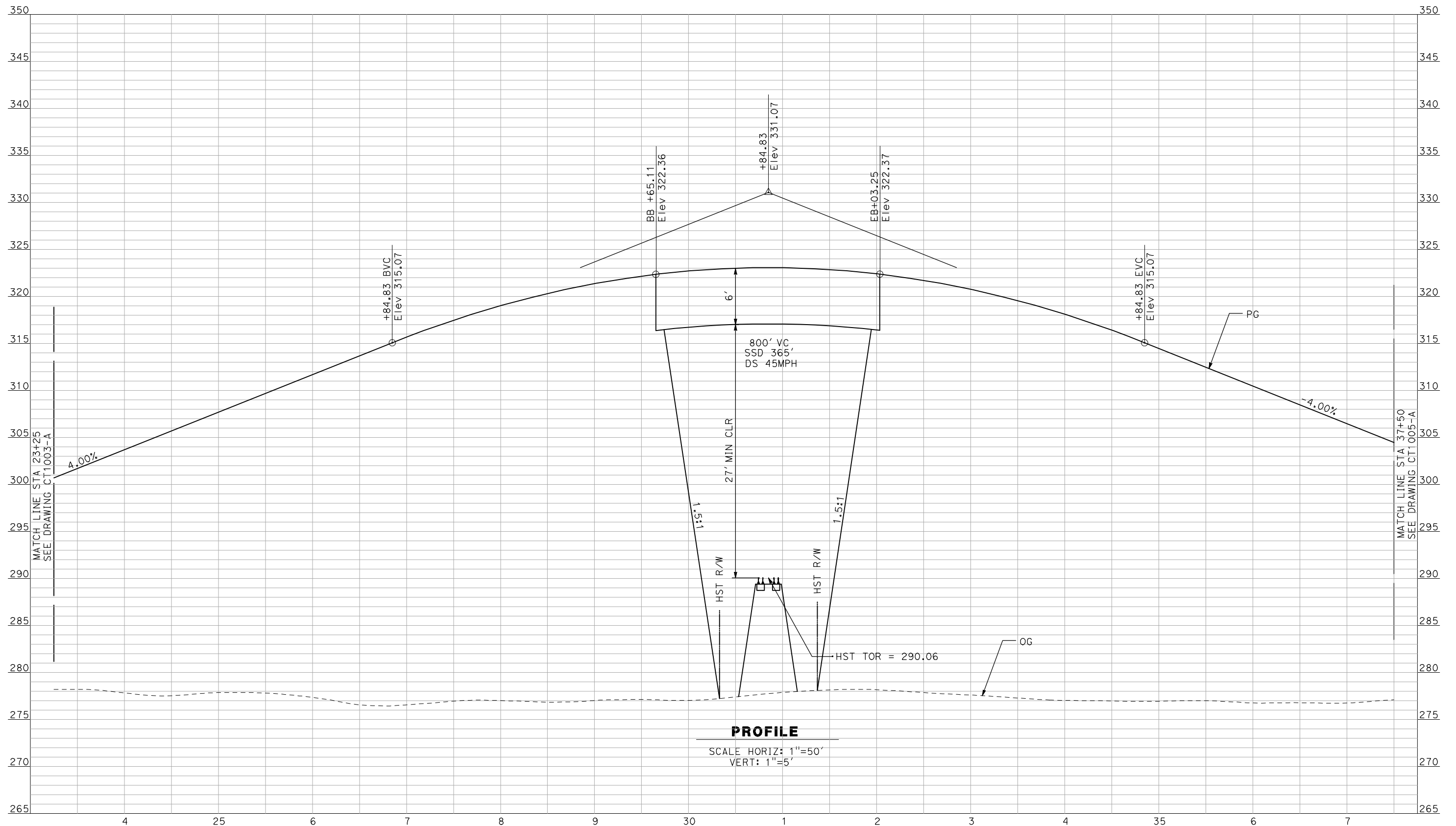
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 10
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1003-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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

RECORD SET
15% DESIGN
SUBMITTAL

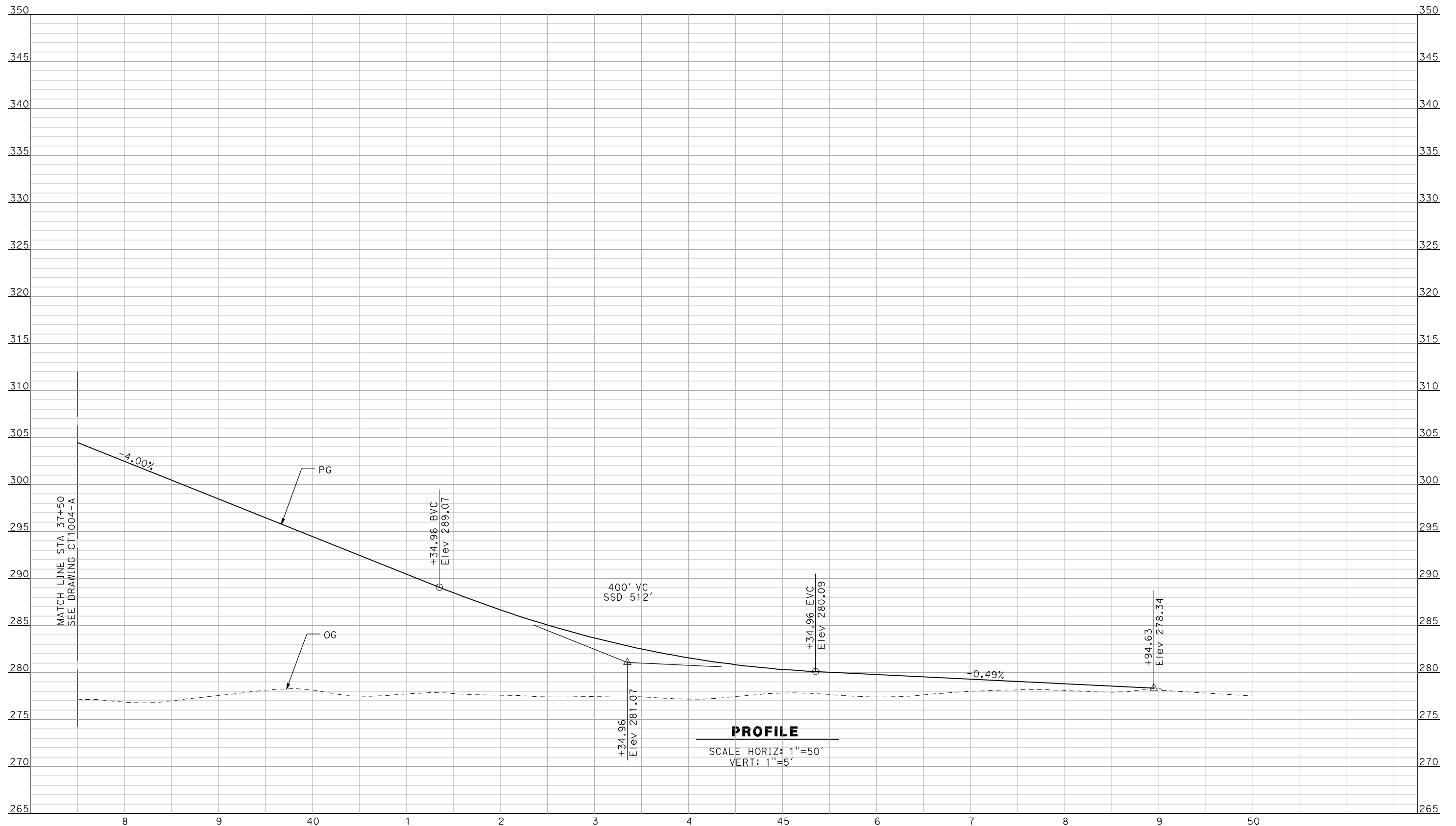
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 10
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
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 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

RECORD SET
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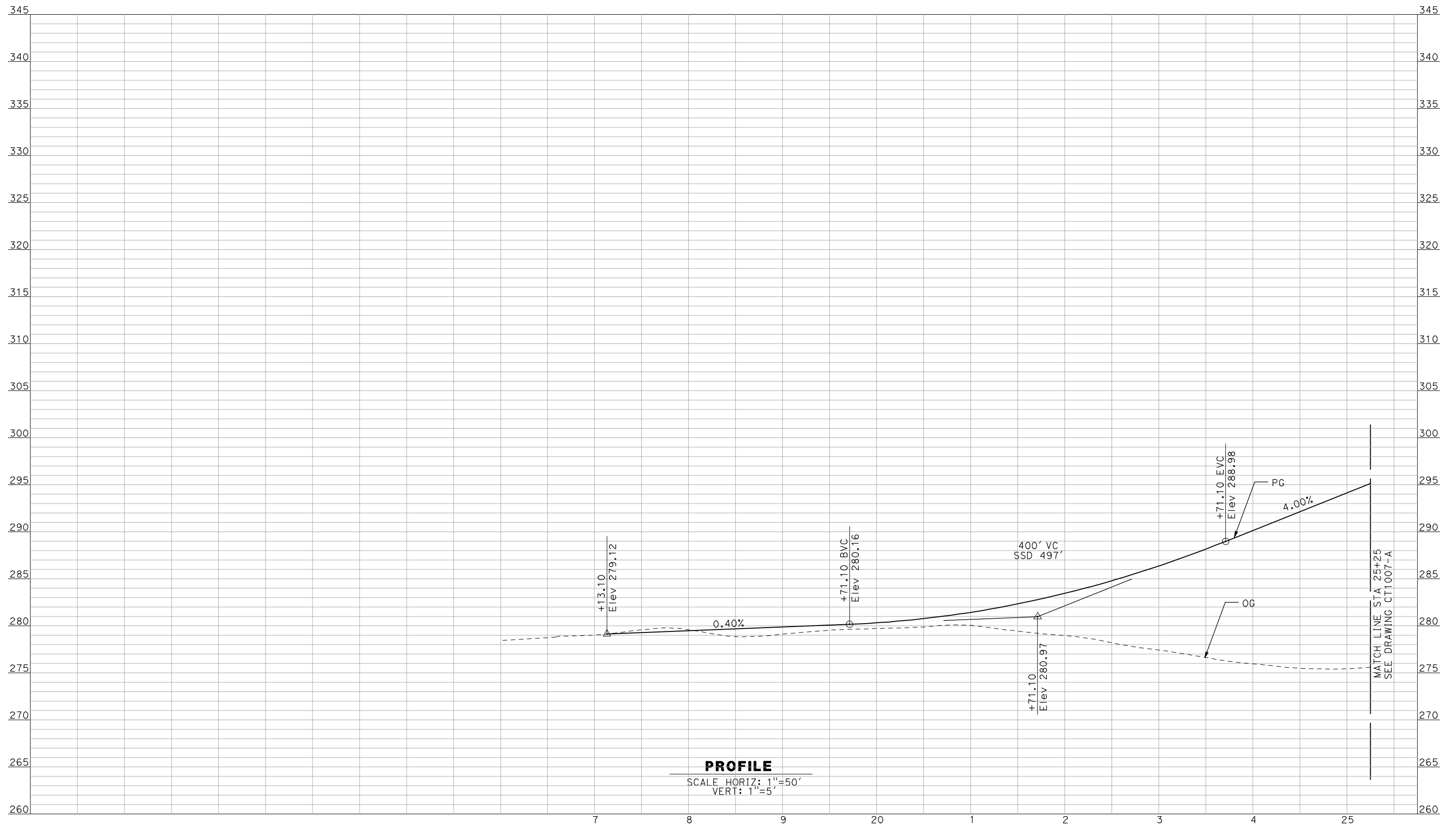
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 10
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
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 DRAWING NO.
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 SCALE
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 SHEET NO.
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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
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A. BOONE
 DATE
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RECORD SET
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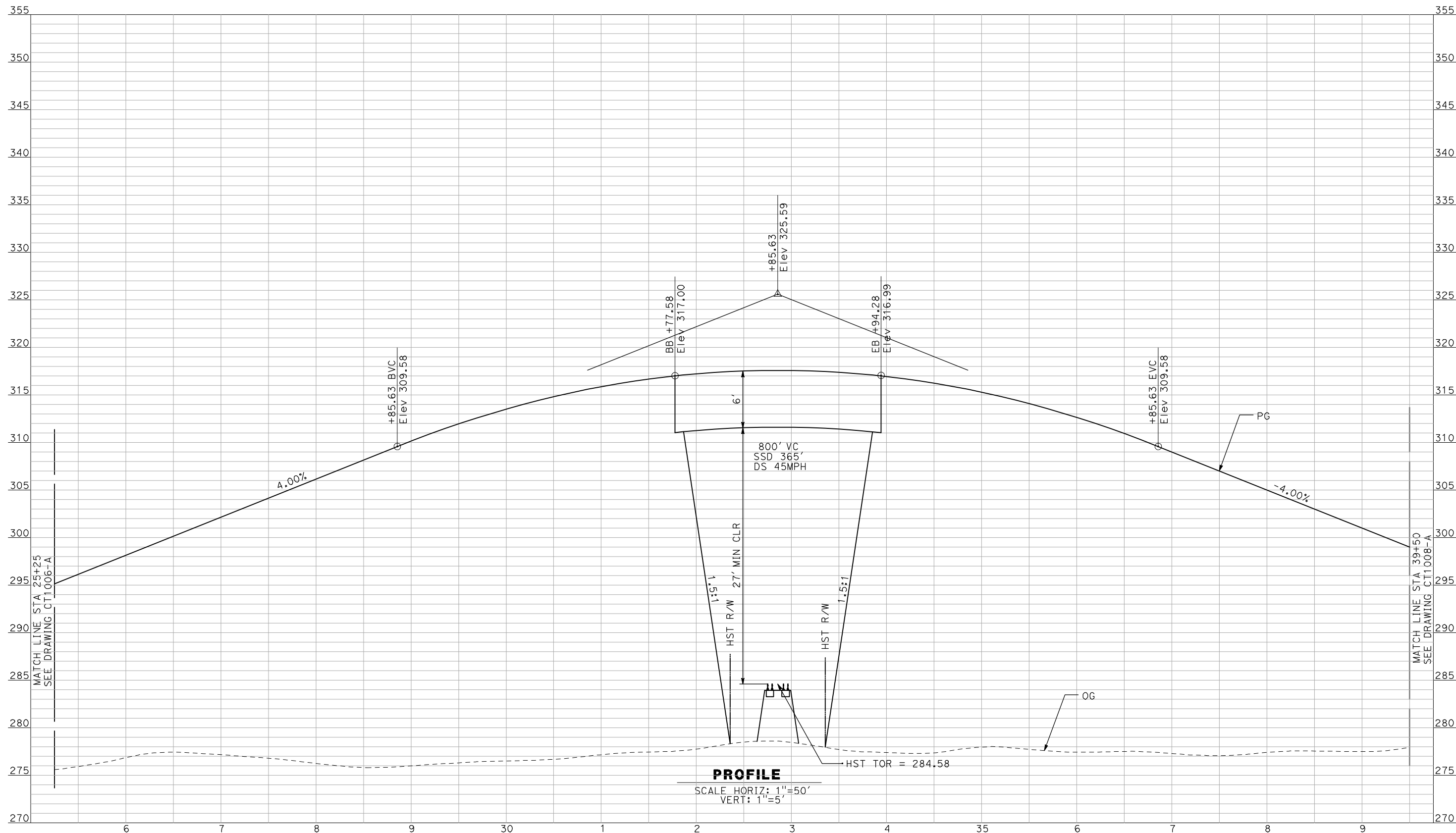
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 11
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
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 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
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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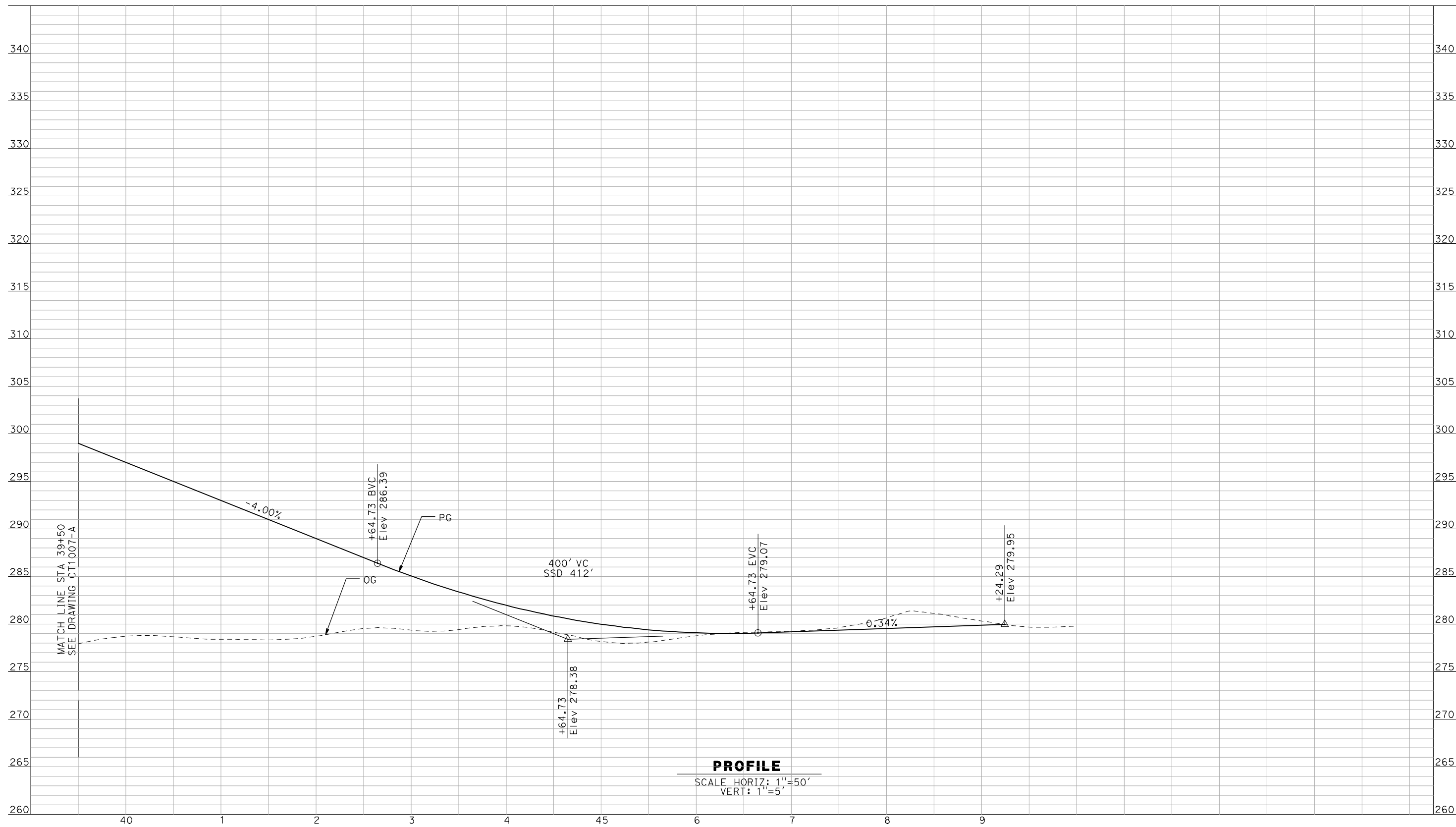


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 11
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1007-A
SCALE
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OF

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

RECORD SET
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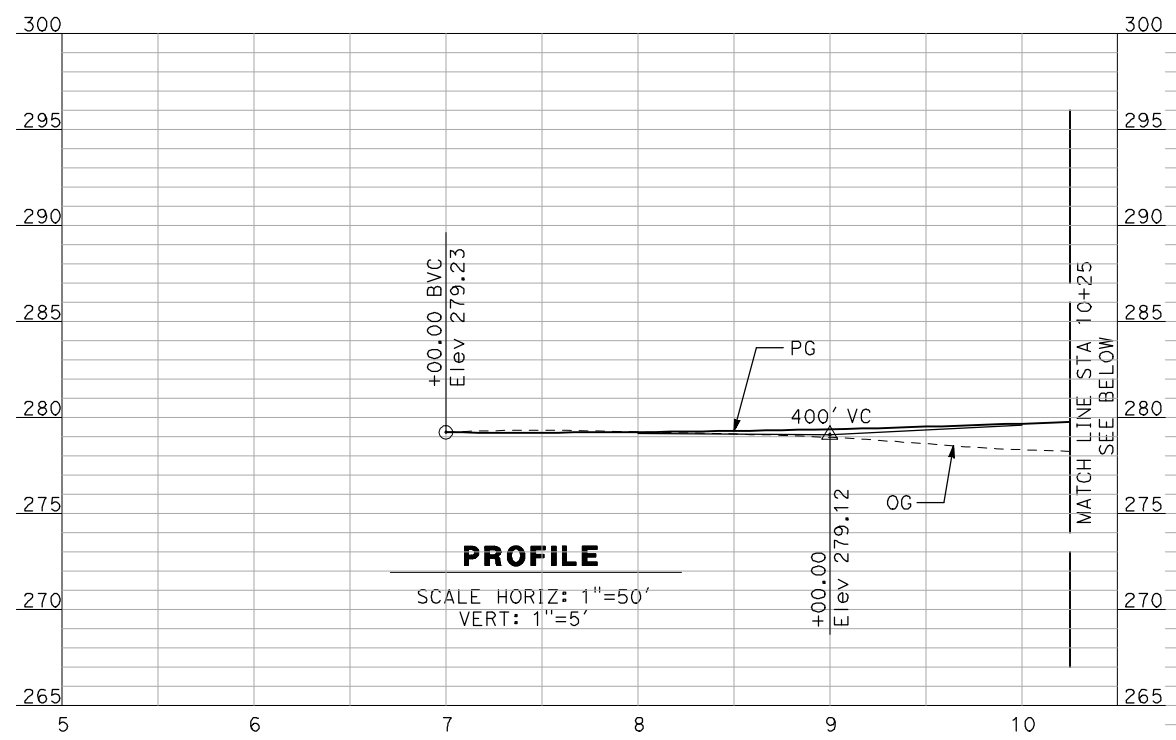
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 11
 PROFILE
 SHEET 3 OF 3

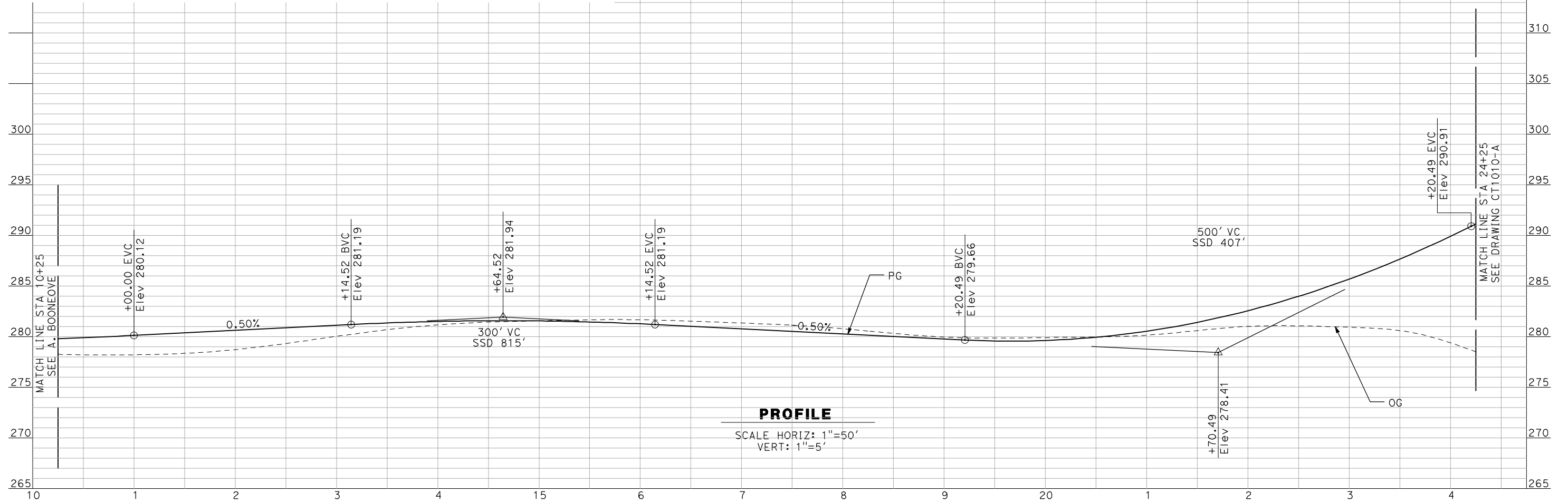
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'



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

RECORD SET
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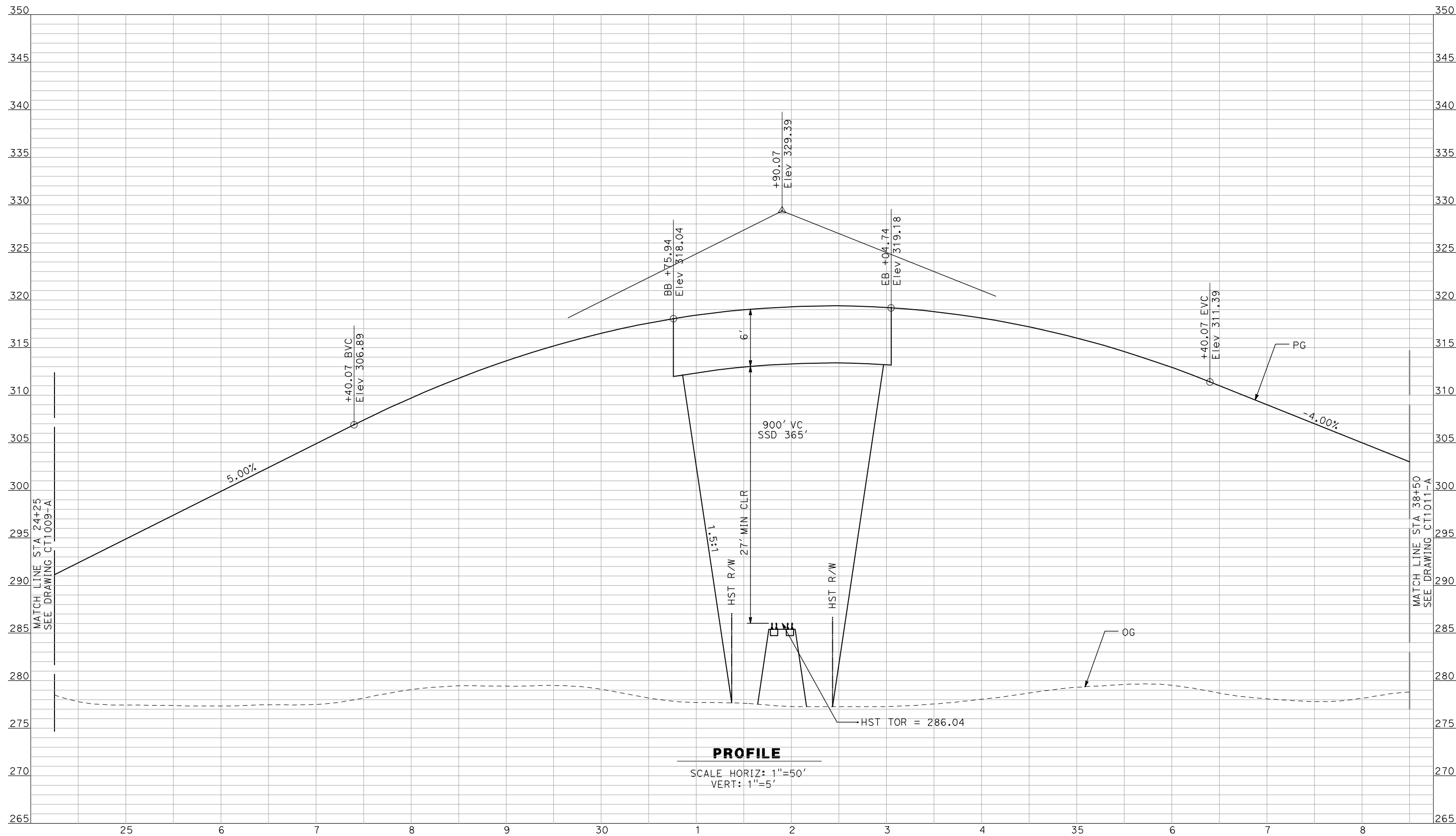


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 12
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1009-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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 DRAWN BY
 F. DEMARCO
 CHECKED BY
 J. ZANDIAN
 IN CHARGE
 A. BOONE
 DATE
 04/29/2011

RECORD SET
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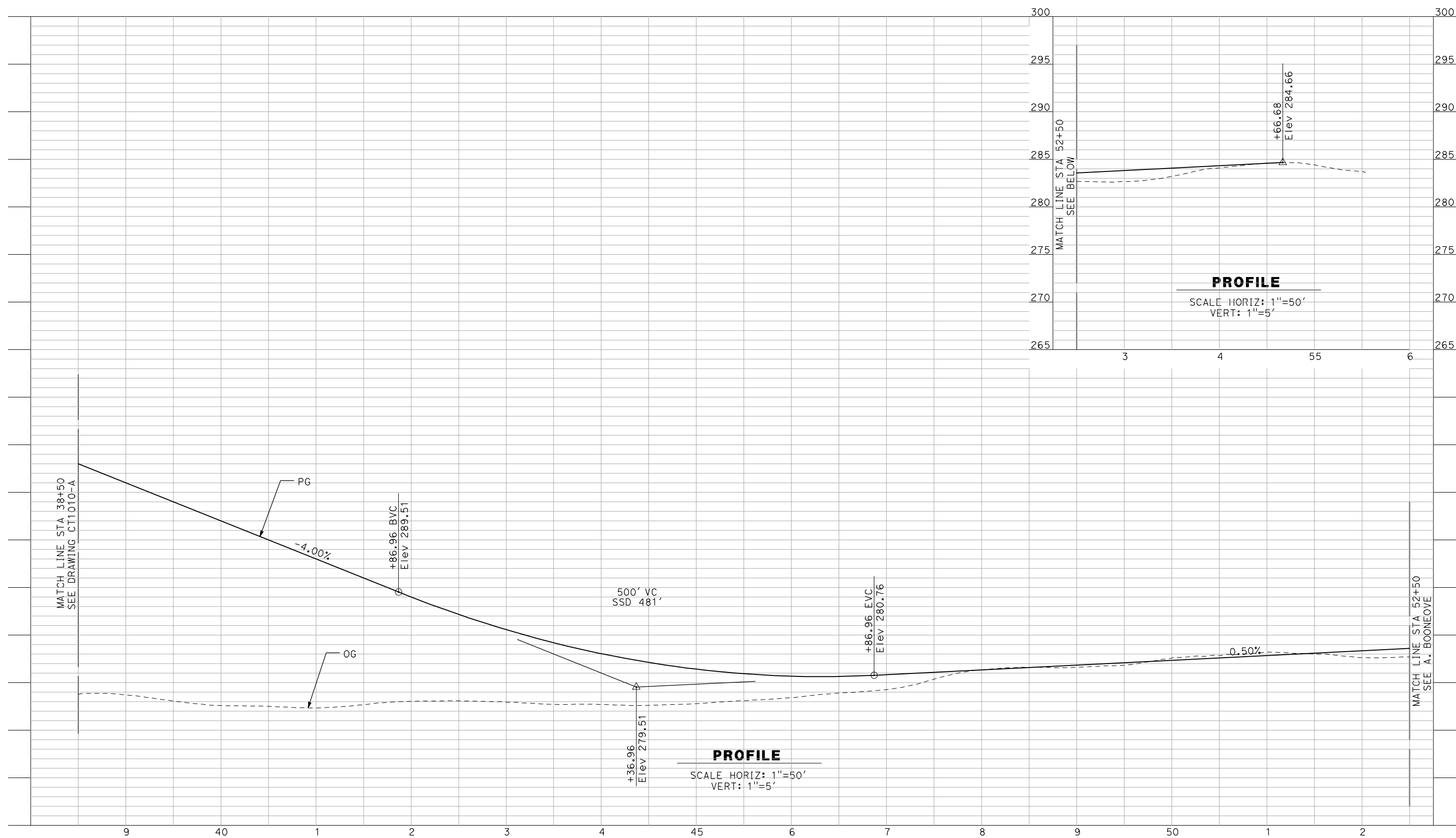
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 12
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
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 DRAWING NO.
 CT1010-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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

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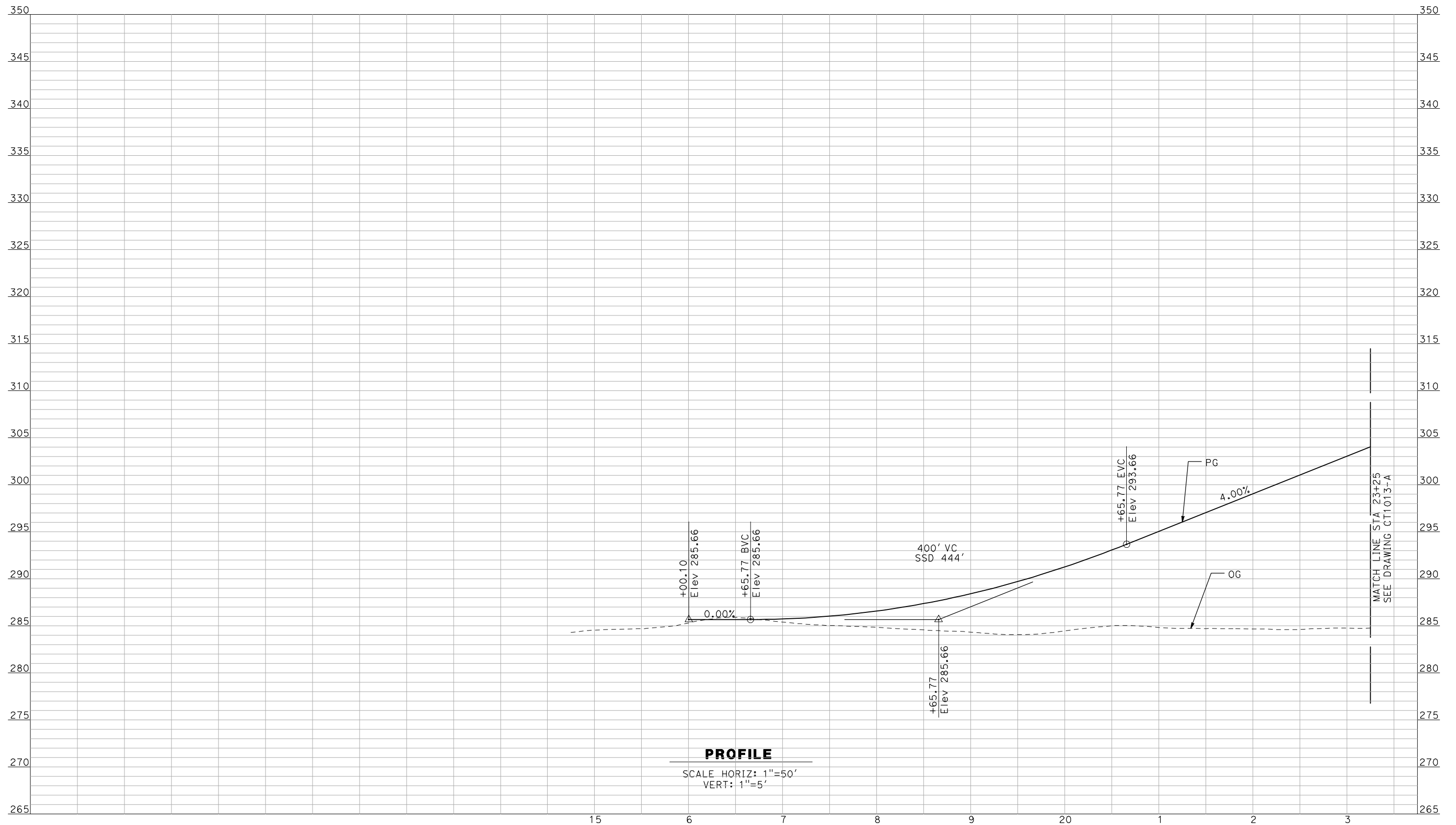
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 12
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1011-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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

RECORD SET
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SUBMITTAL

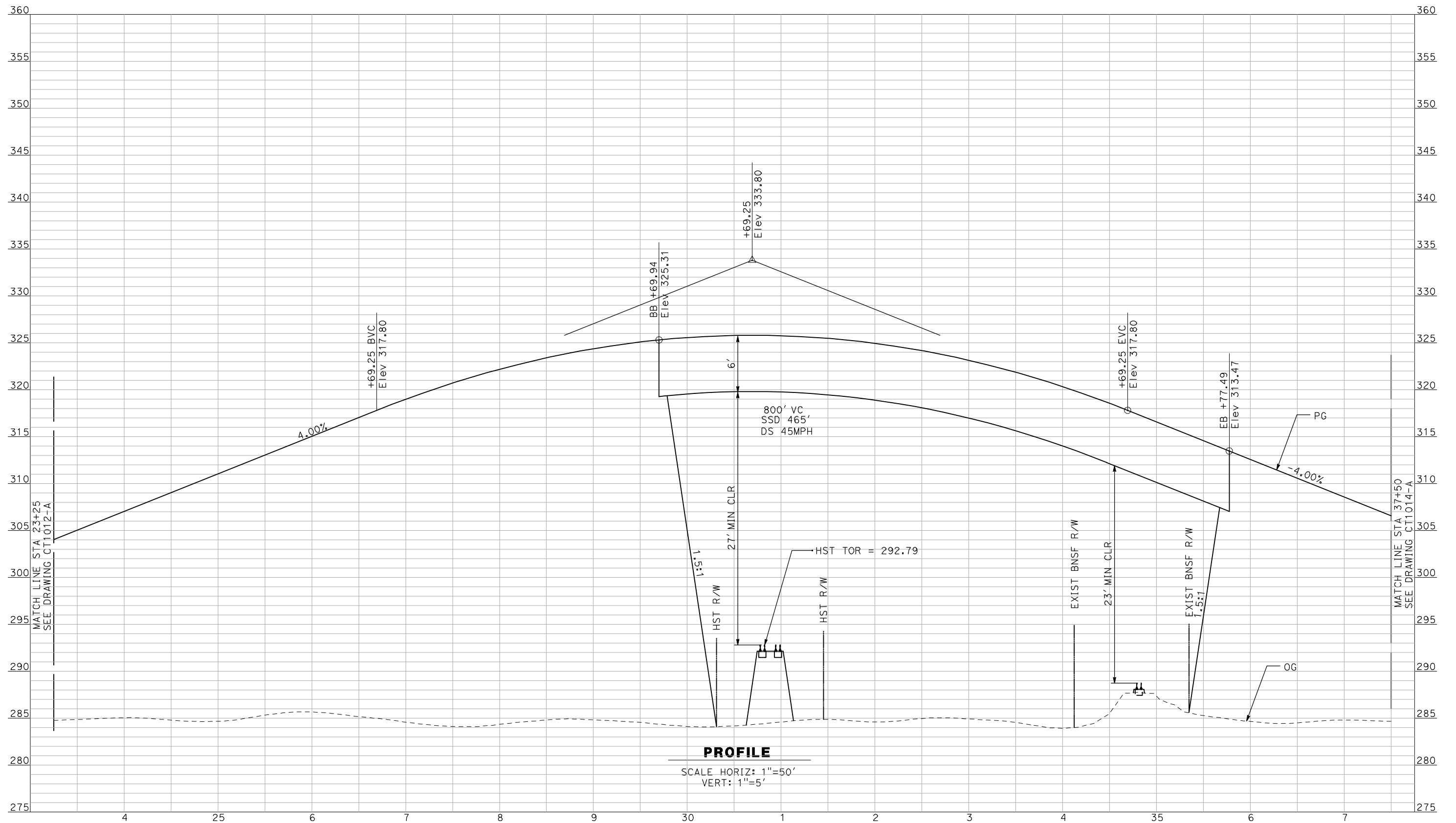
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 13
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1012-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**

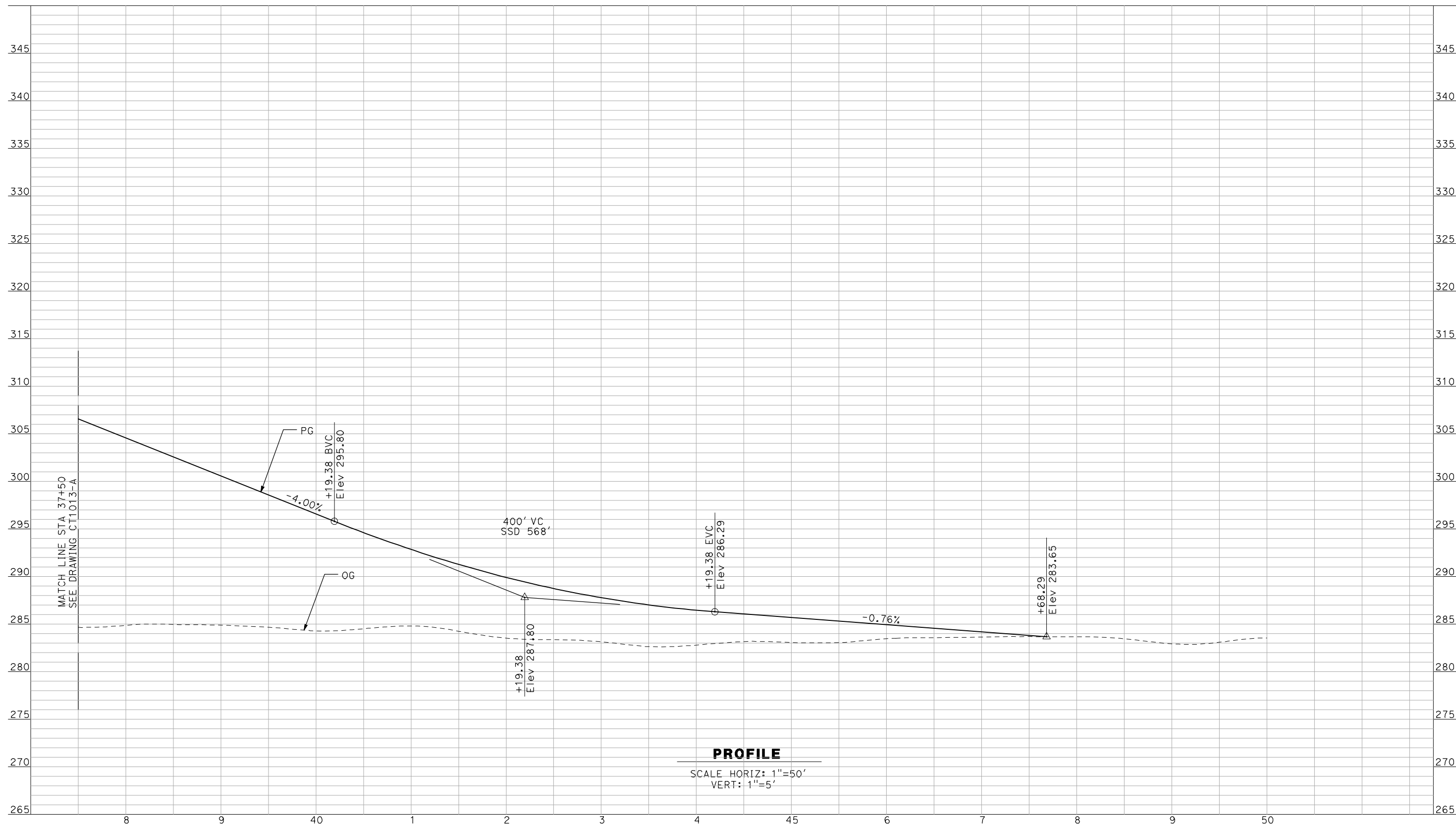


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 13
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1013-A
SCALE
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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
R. GIBSON
DRAWN BY
F. DEMARCO
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

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SUBMITTAL**

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CONSTRUCTION**

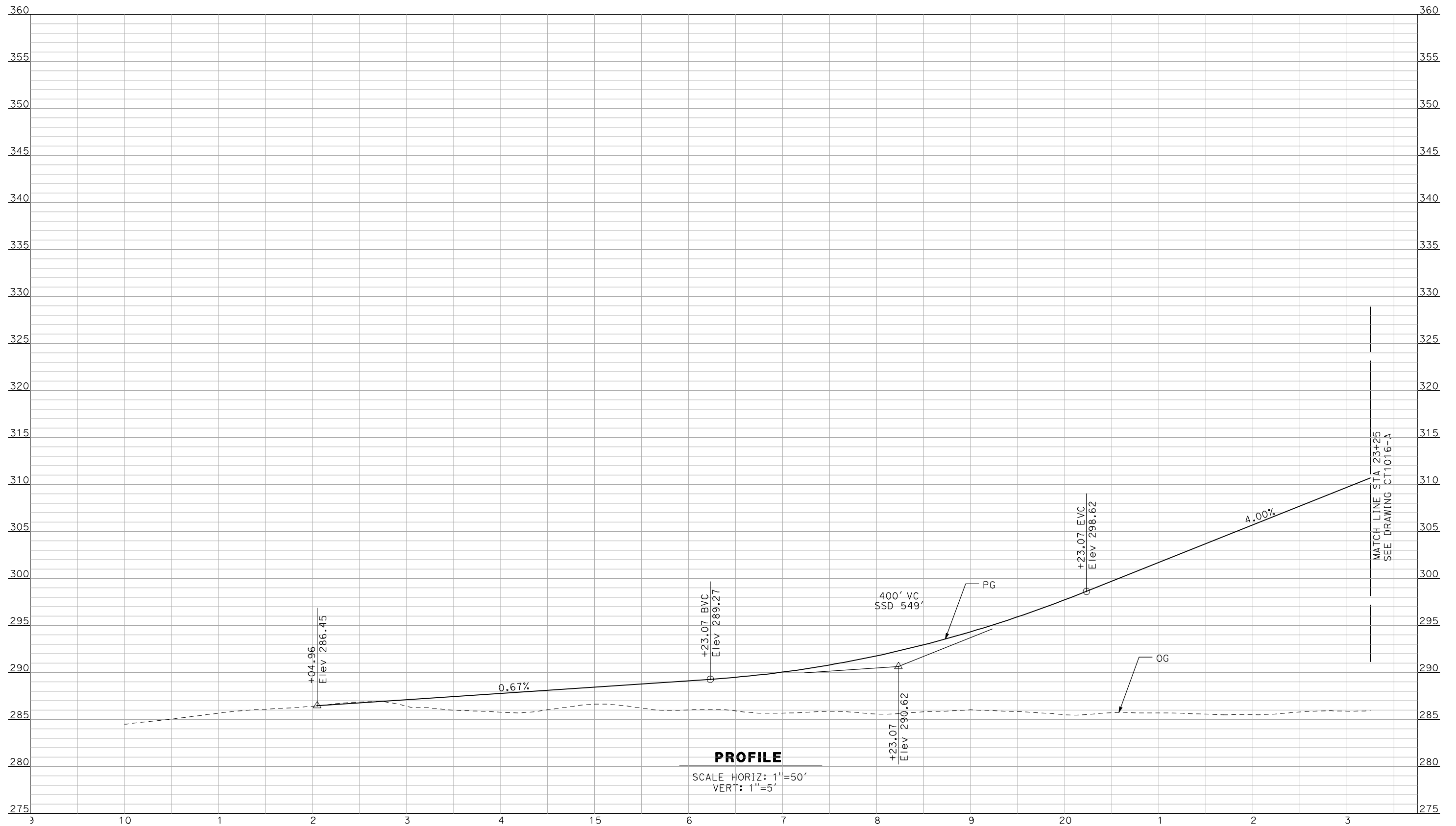


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 13
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1014-A
SCALE
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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
R. GIBSON
DRAWN BY
F. DEMARCO
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J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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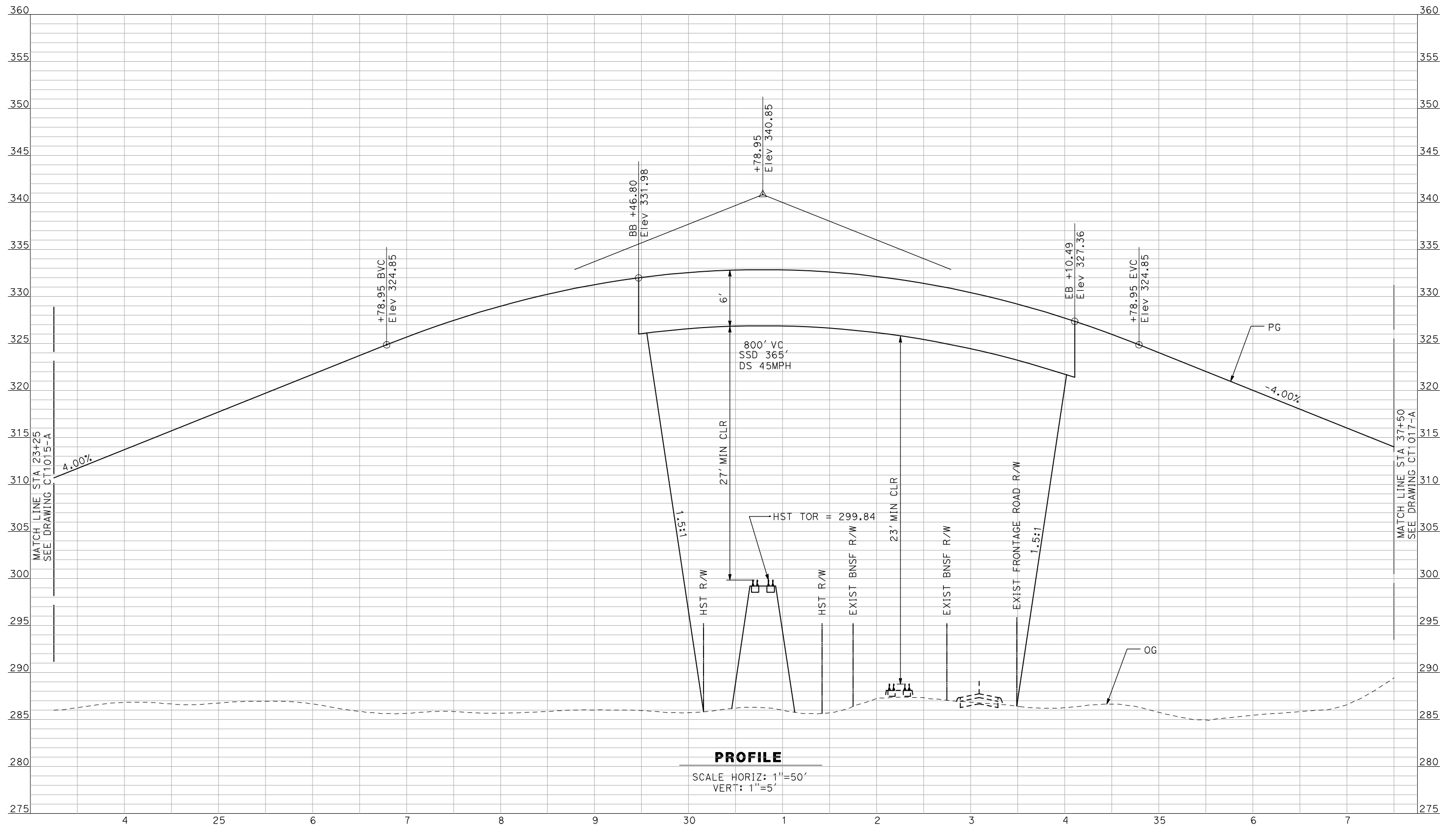


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 15
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1015-A
SCALE
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OF

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

RECORD SET
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SUBMITTAL

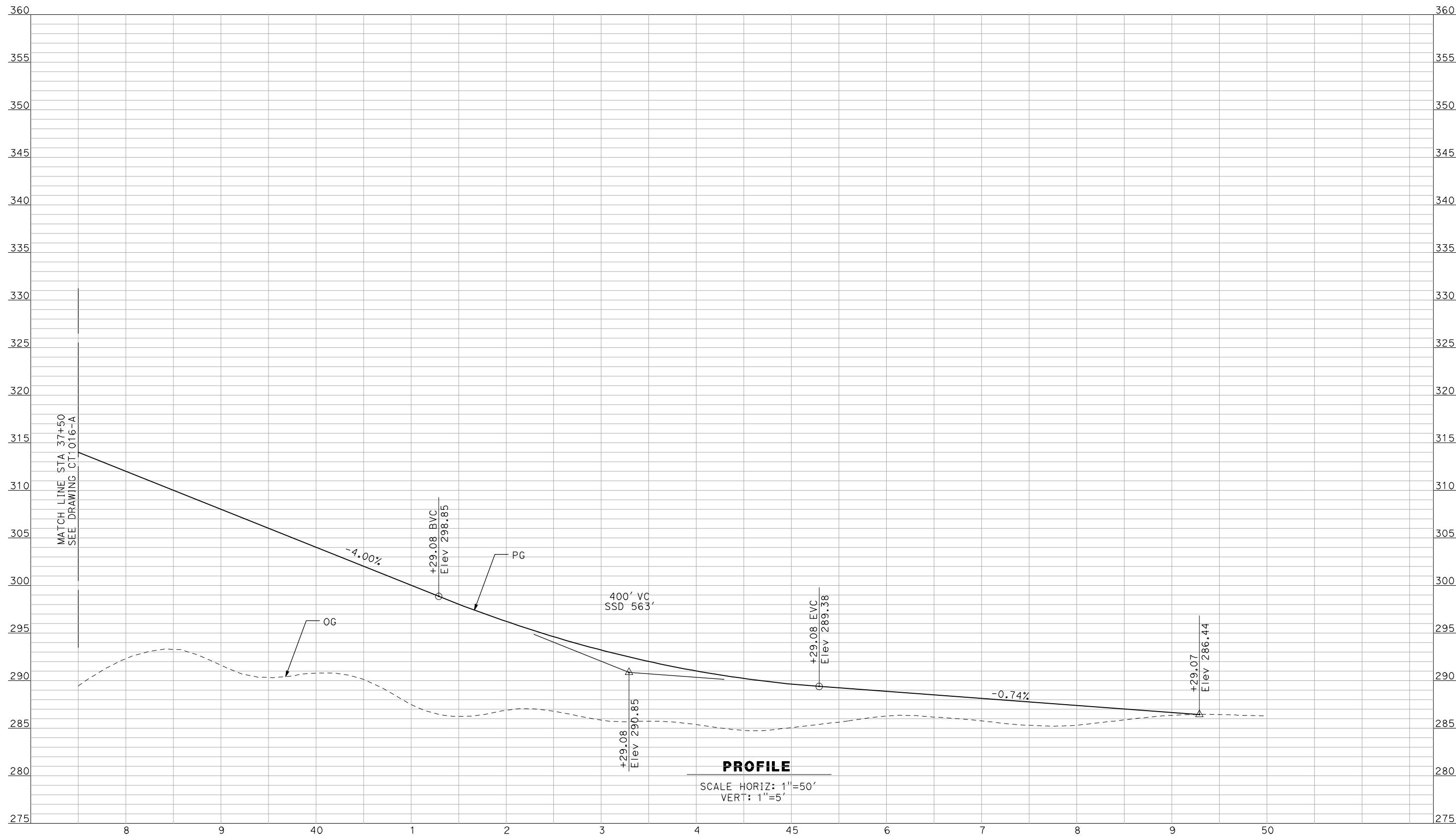
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 15
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
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 SCALE
AS SHOWN
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OF

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
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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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CONSTRUCTION

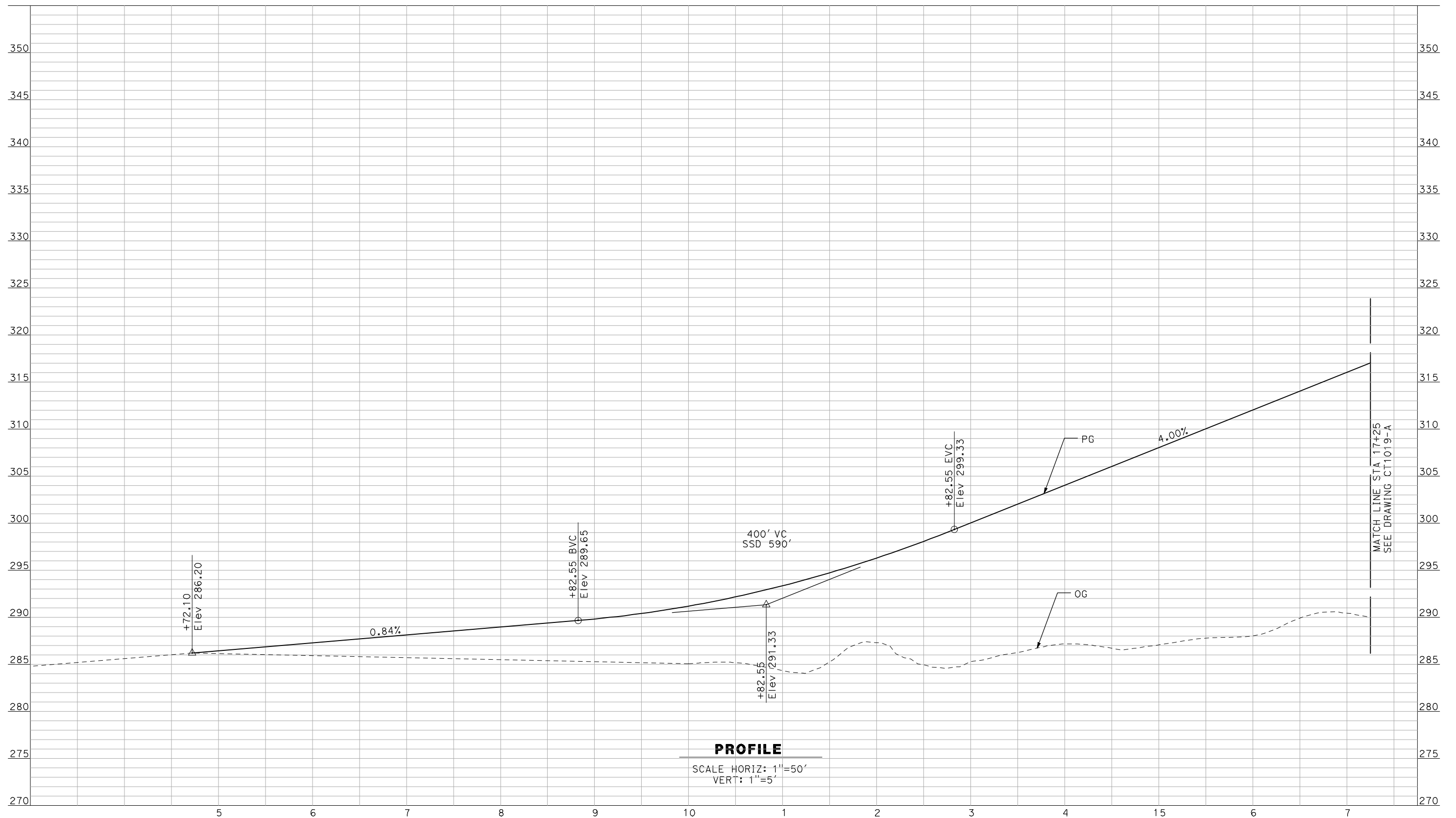


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 15
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1017-A
 SCALE
AS SHOWN
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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
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F. DEMARCO
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J. ZANDIAN
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A. BOONE
 DATE
04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

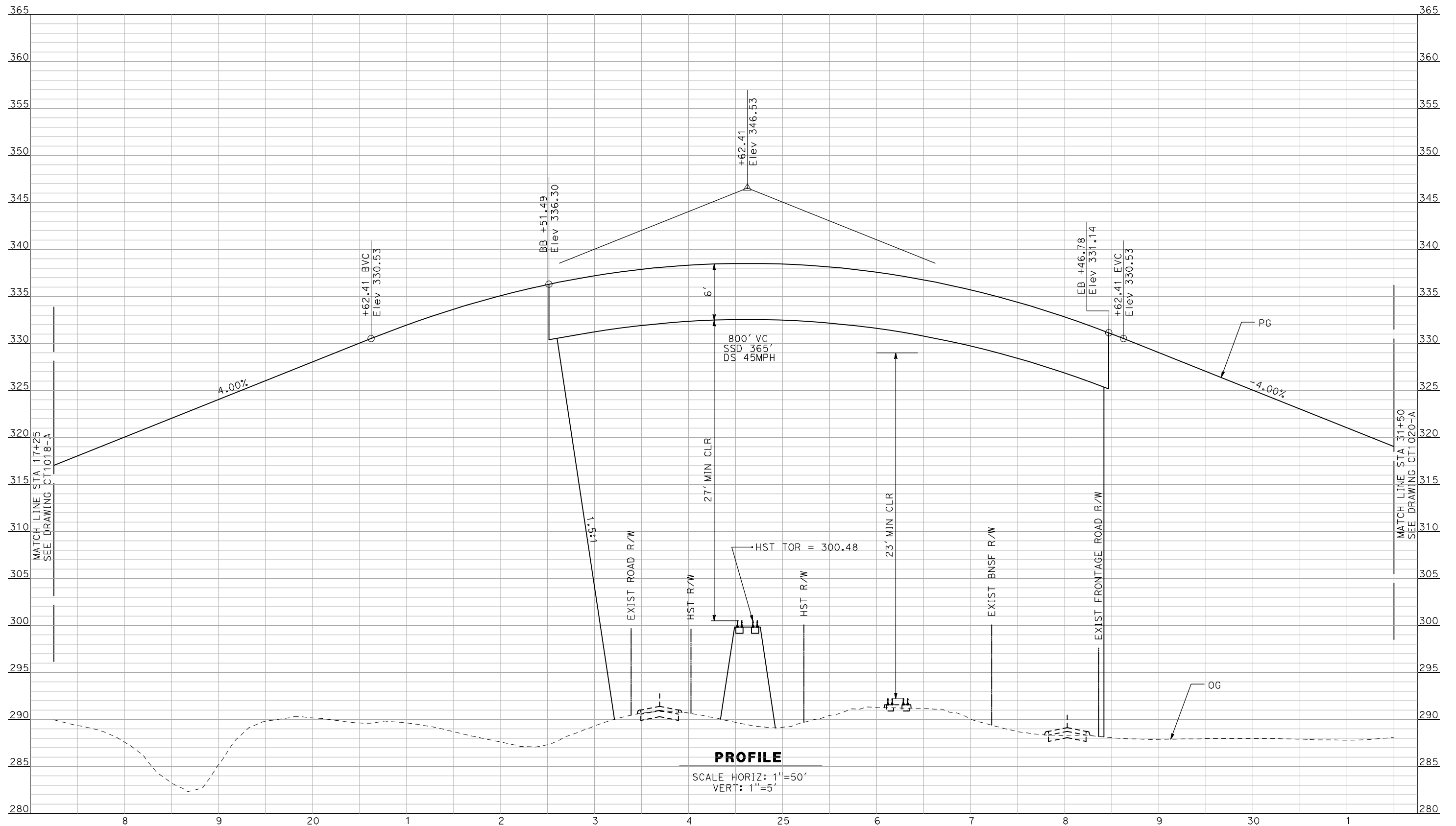
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 15 1/2
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1018-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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

RECORD SET
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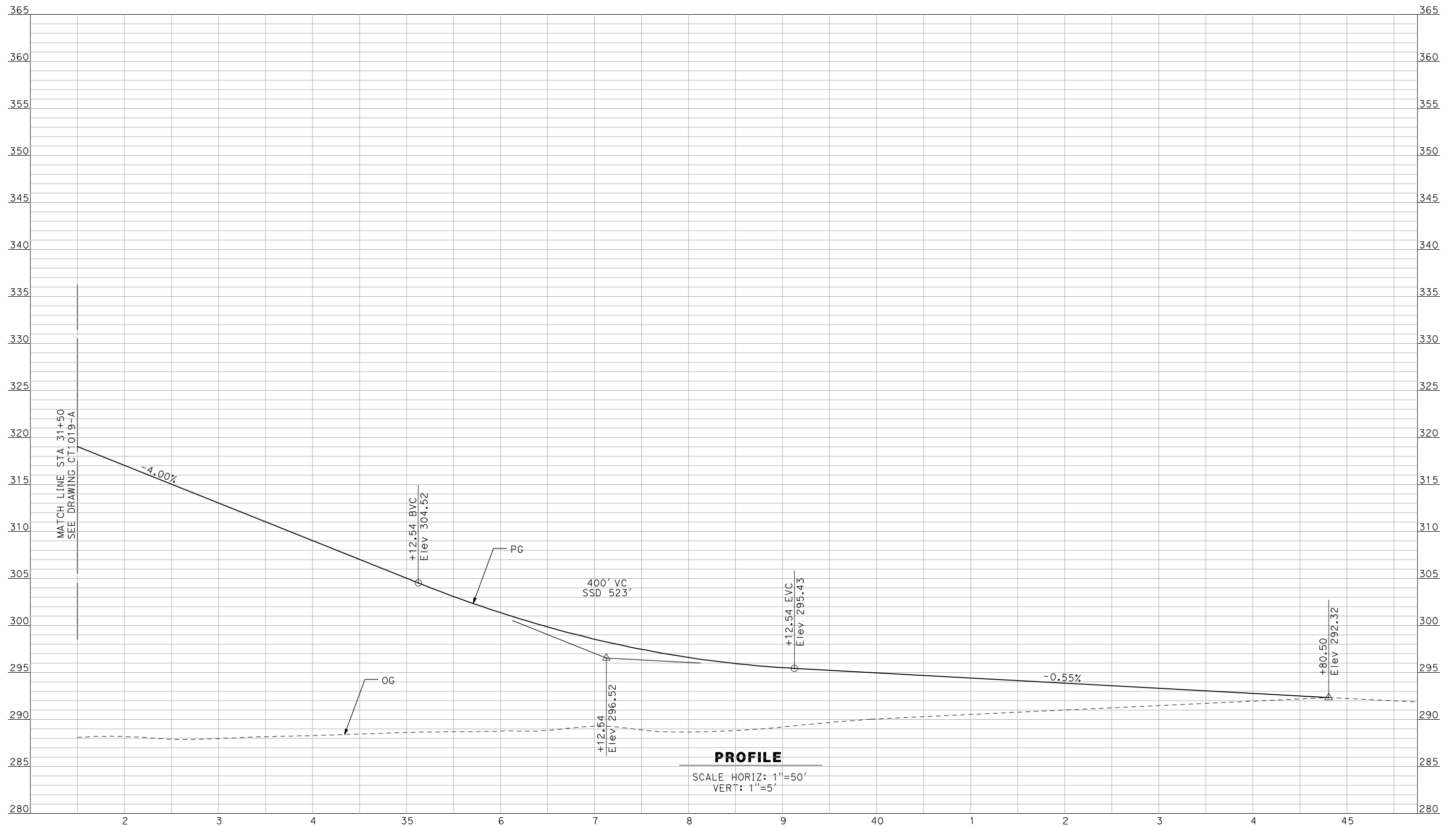
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 15 1/2
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1019-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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J. ZANDIAN
 IN CHARGE
A. BOONE
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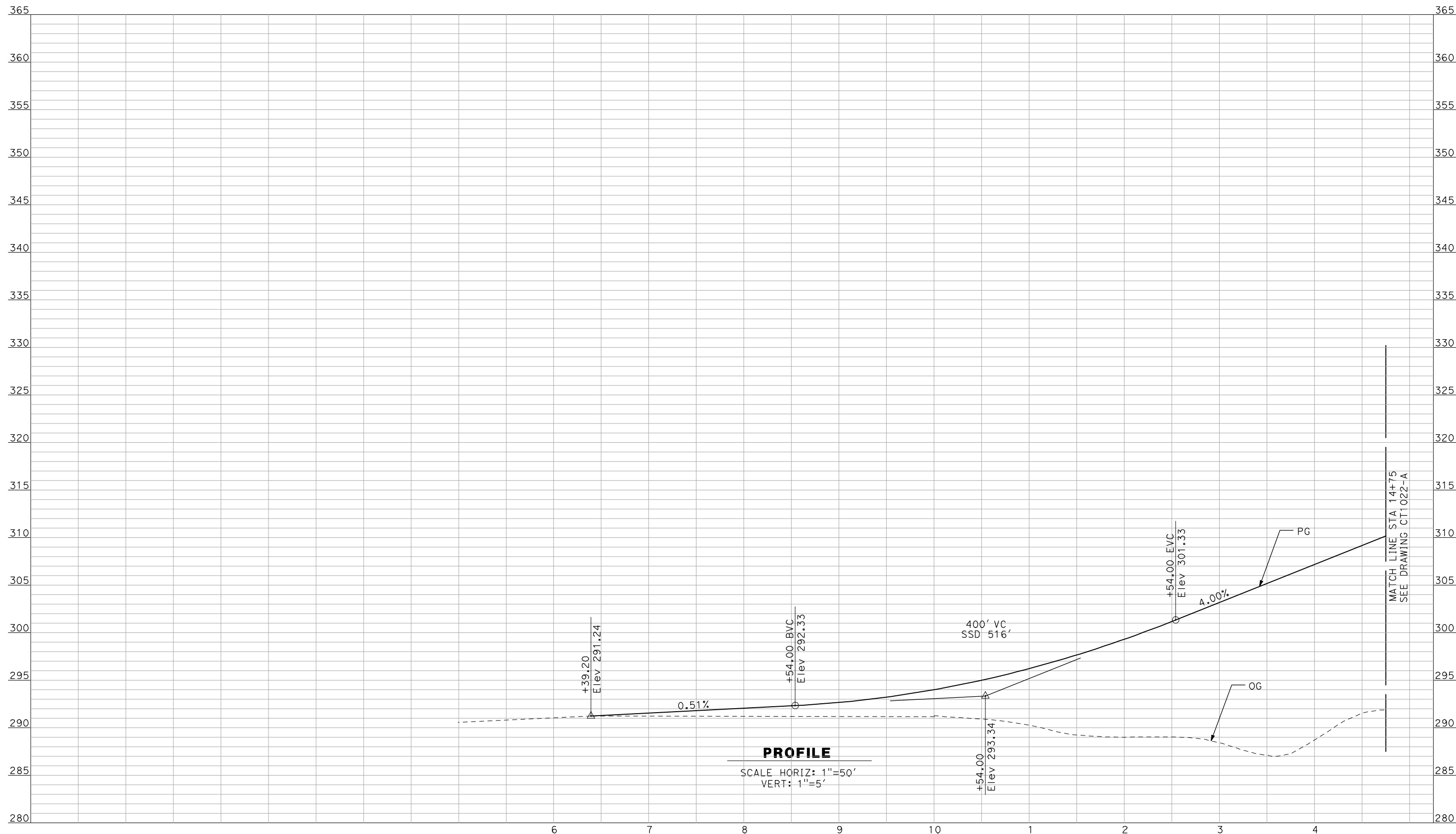


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 15 1/2
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1020-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

RECORD SET
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SUBMITTAL

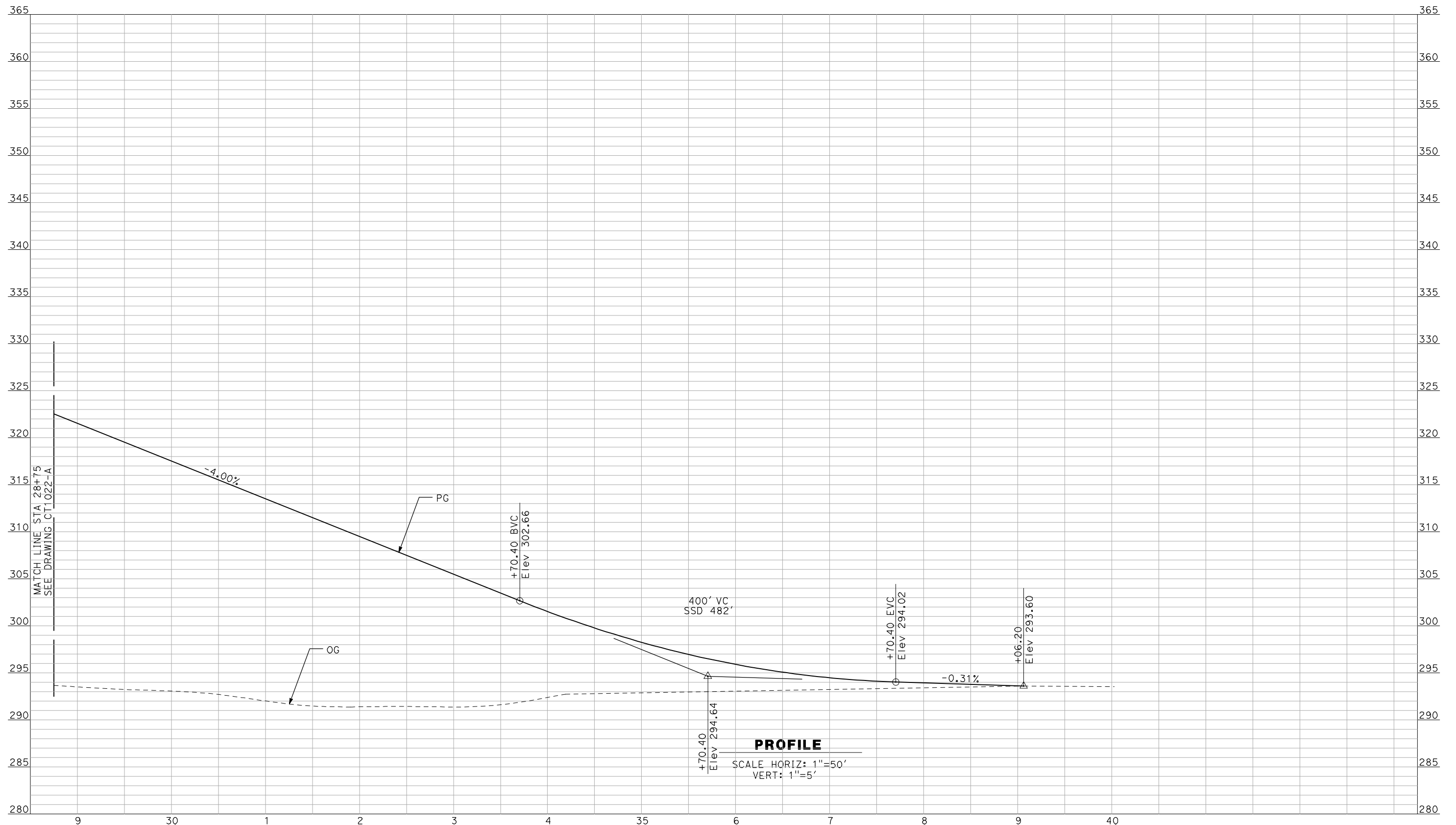
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - RAYMOND RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1021-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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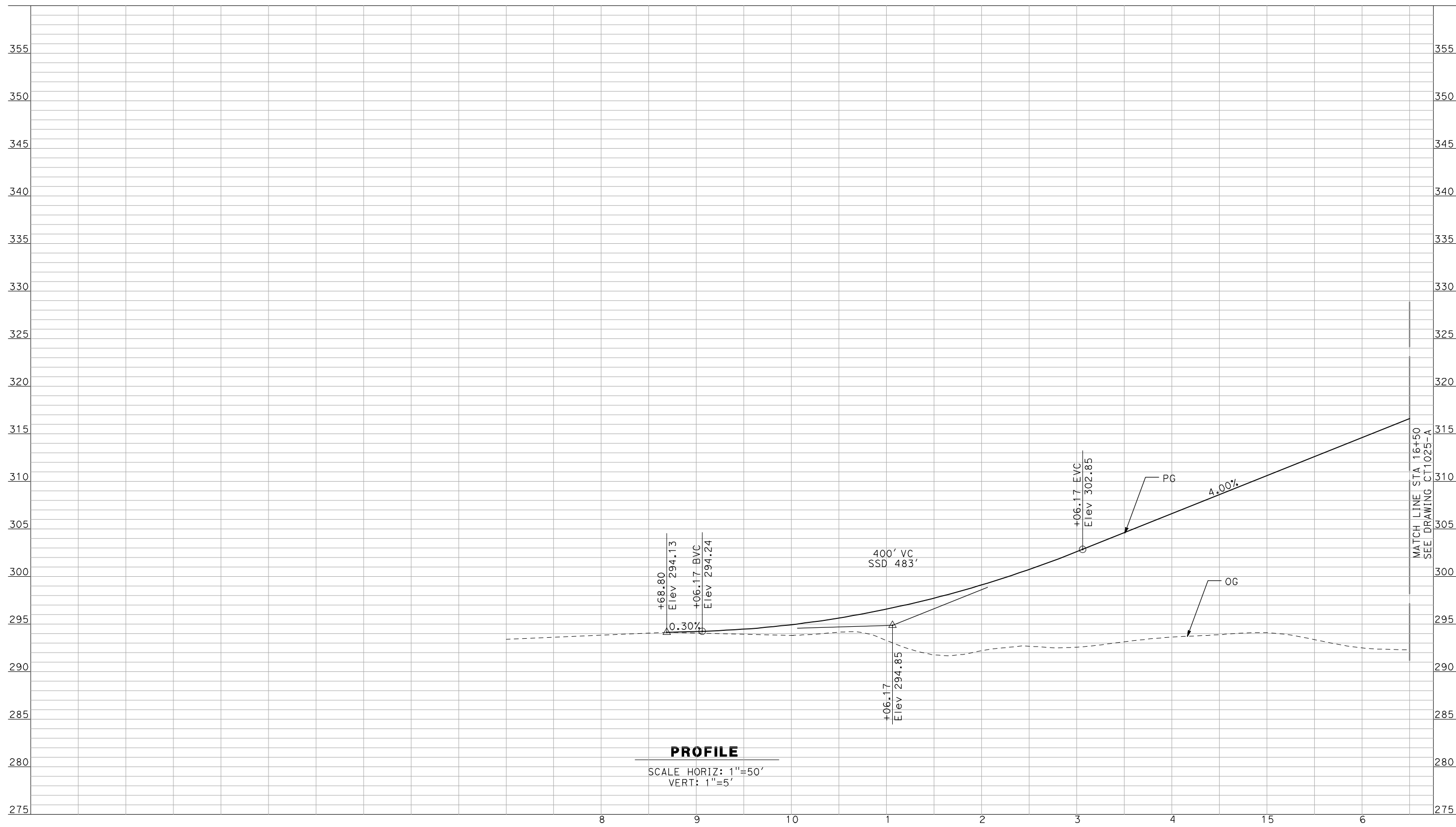


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 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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REV	DATE	BY	CHK	APP	DESCRIPTION

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

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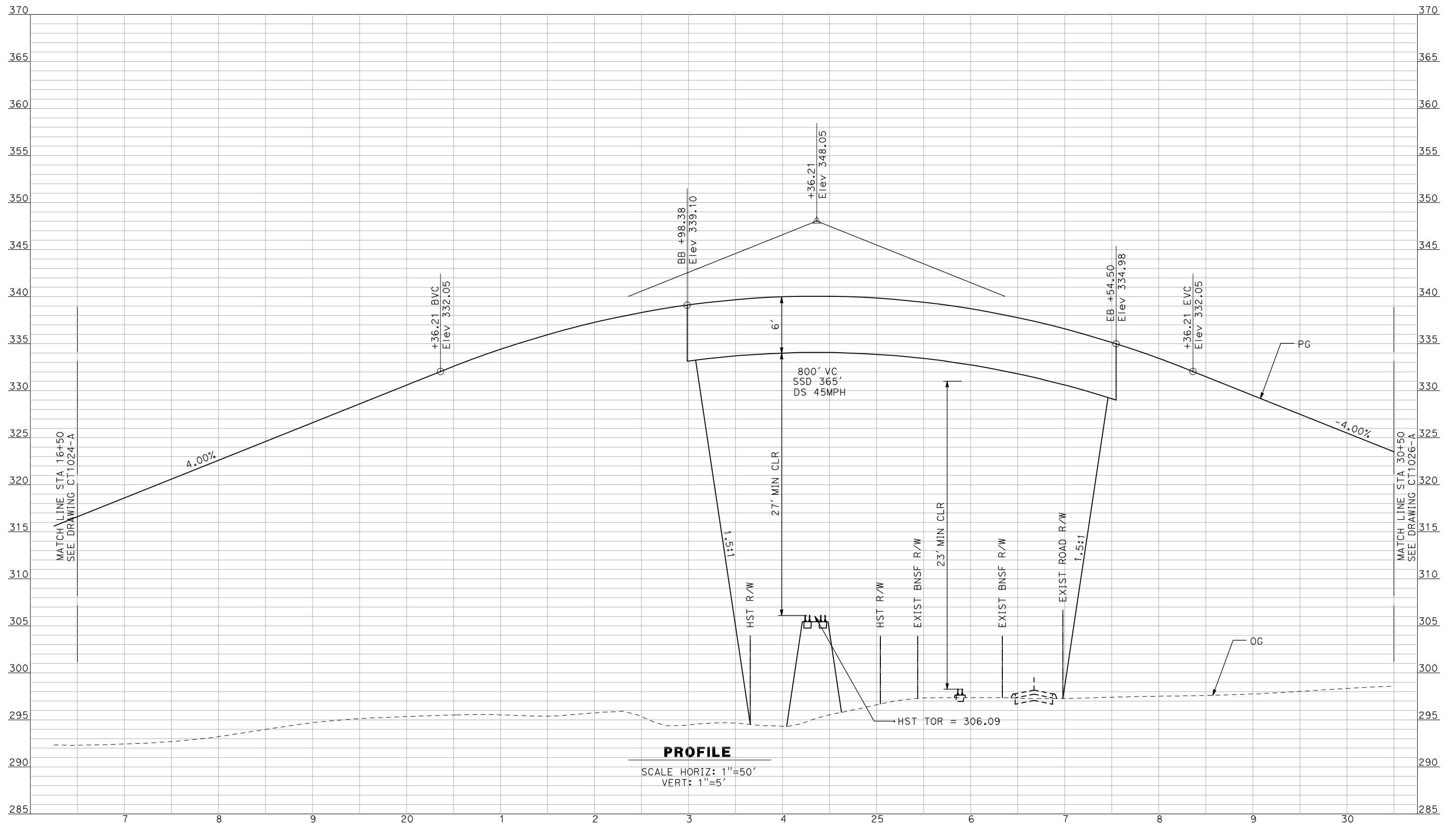


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 17
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1024-A
SCALE
AS SHOWN
SHEET NO.
OF

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A. BOONE
 DATE
04/29/2011

RECORD SET
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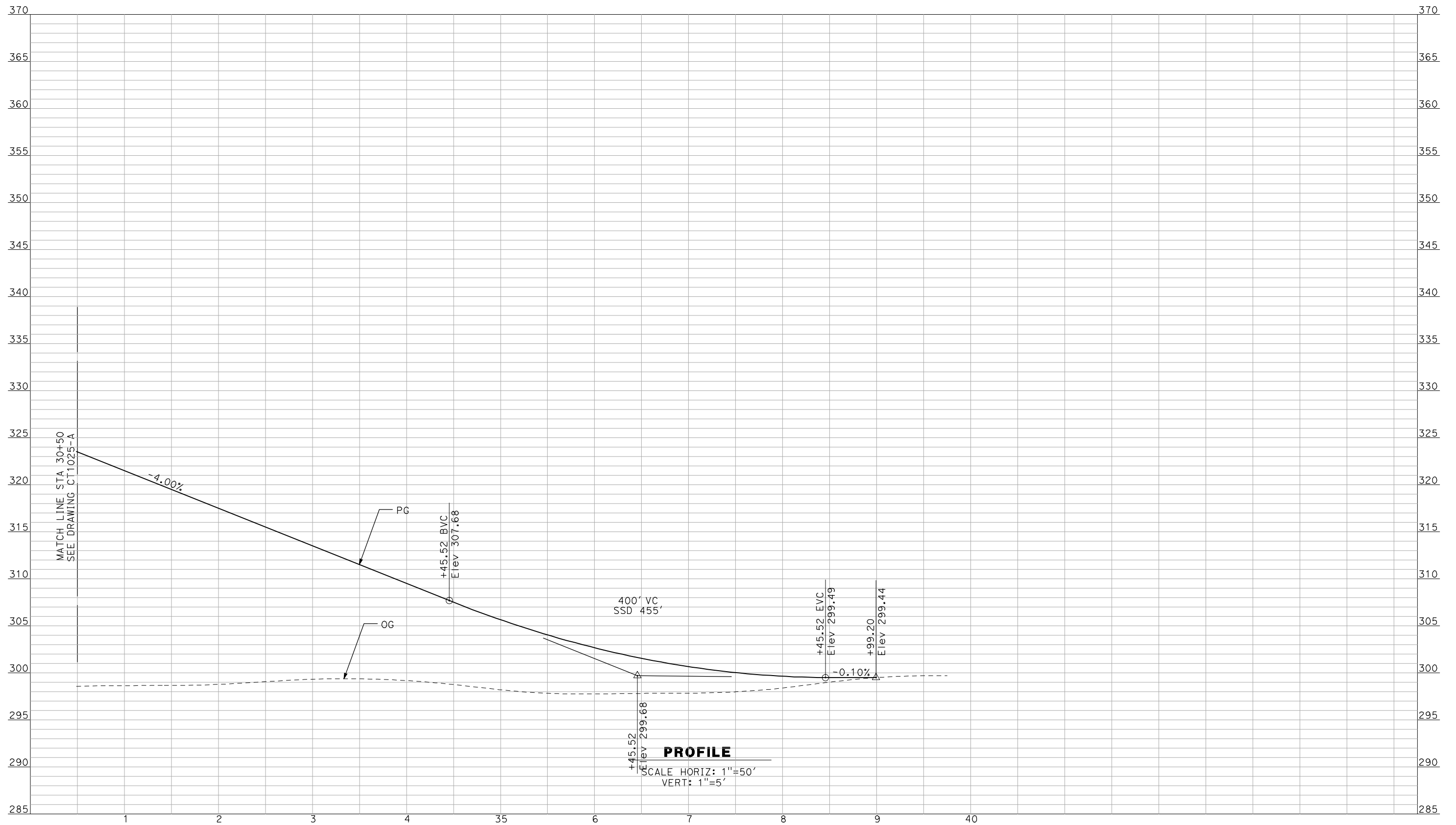
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 17
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1025-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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 IN CHARGE
A. BOONE
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04/29/2011

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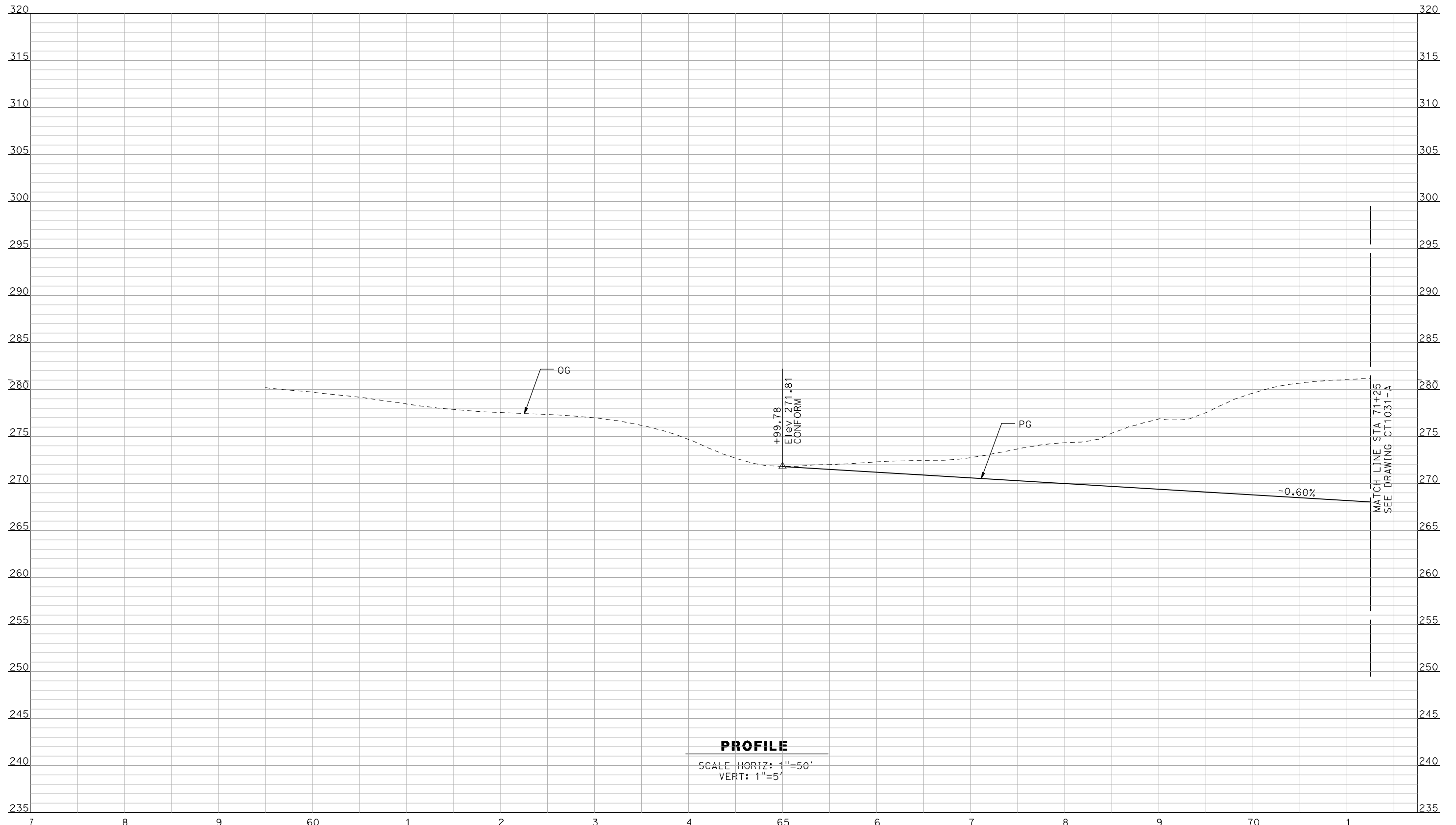


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 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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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
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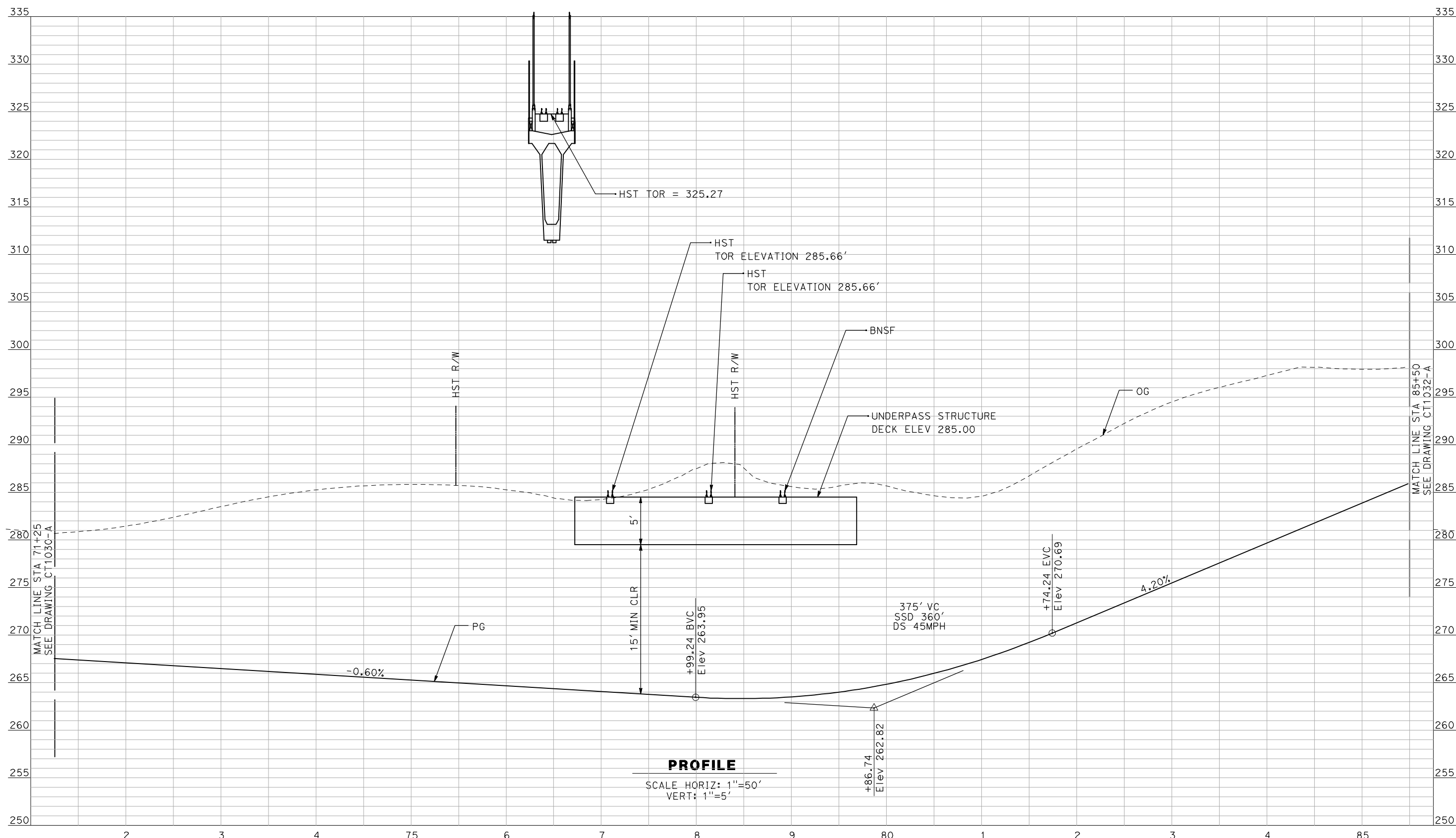
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 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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REV	DATE	BY	CHK	APP	DESCRIPTION

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

RECORD SET
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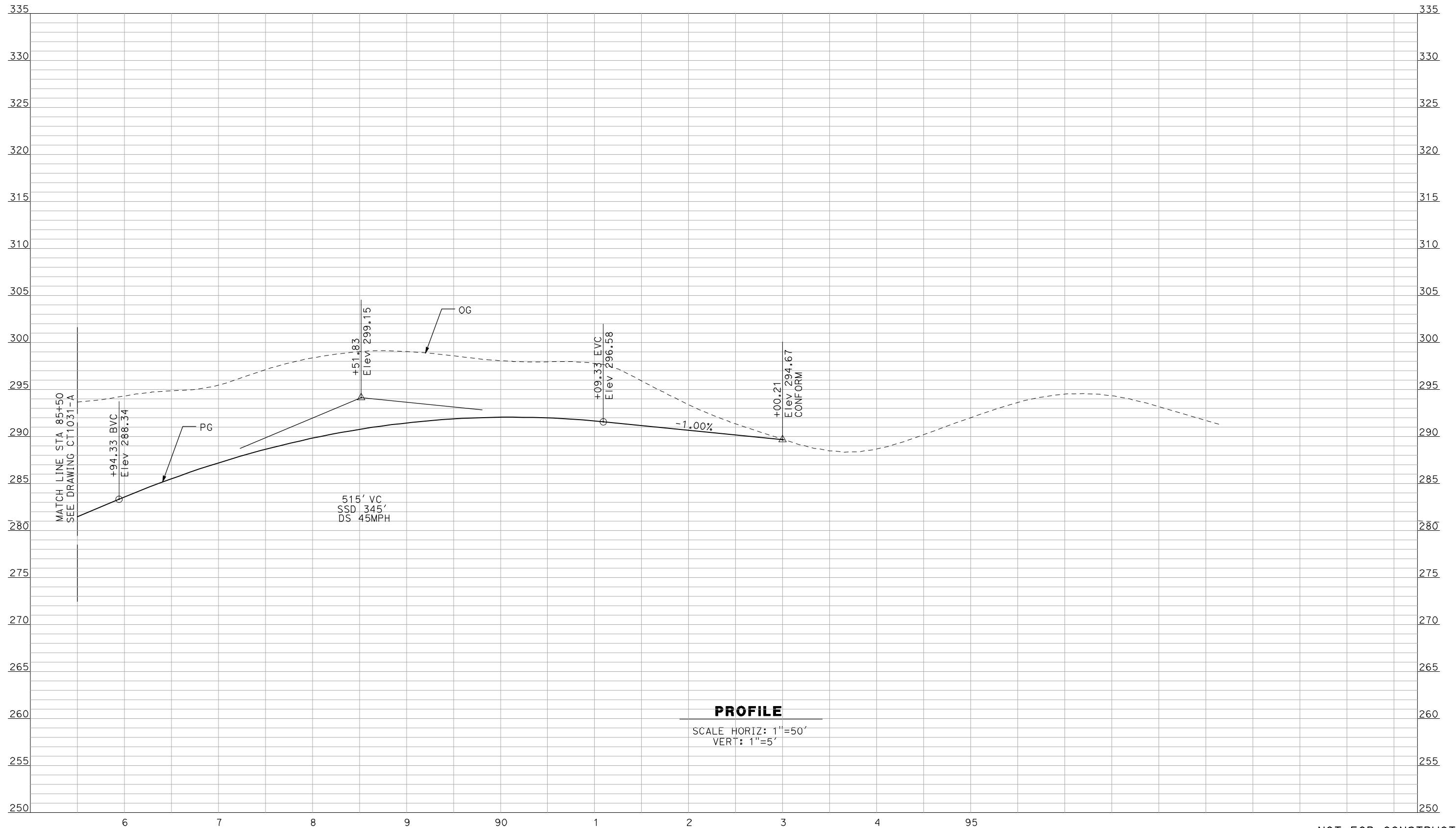
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 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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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
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A. BOONE
 DATE
04/29/2011

RECORD SET
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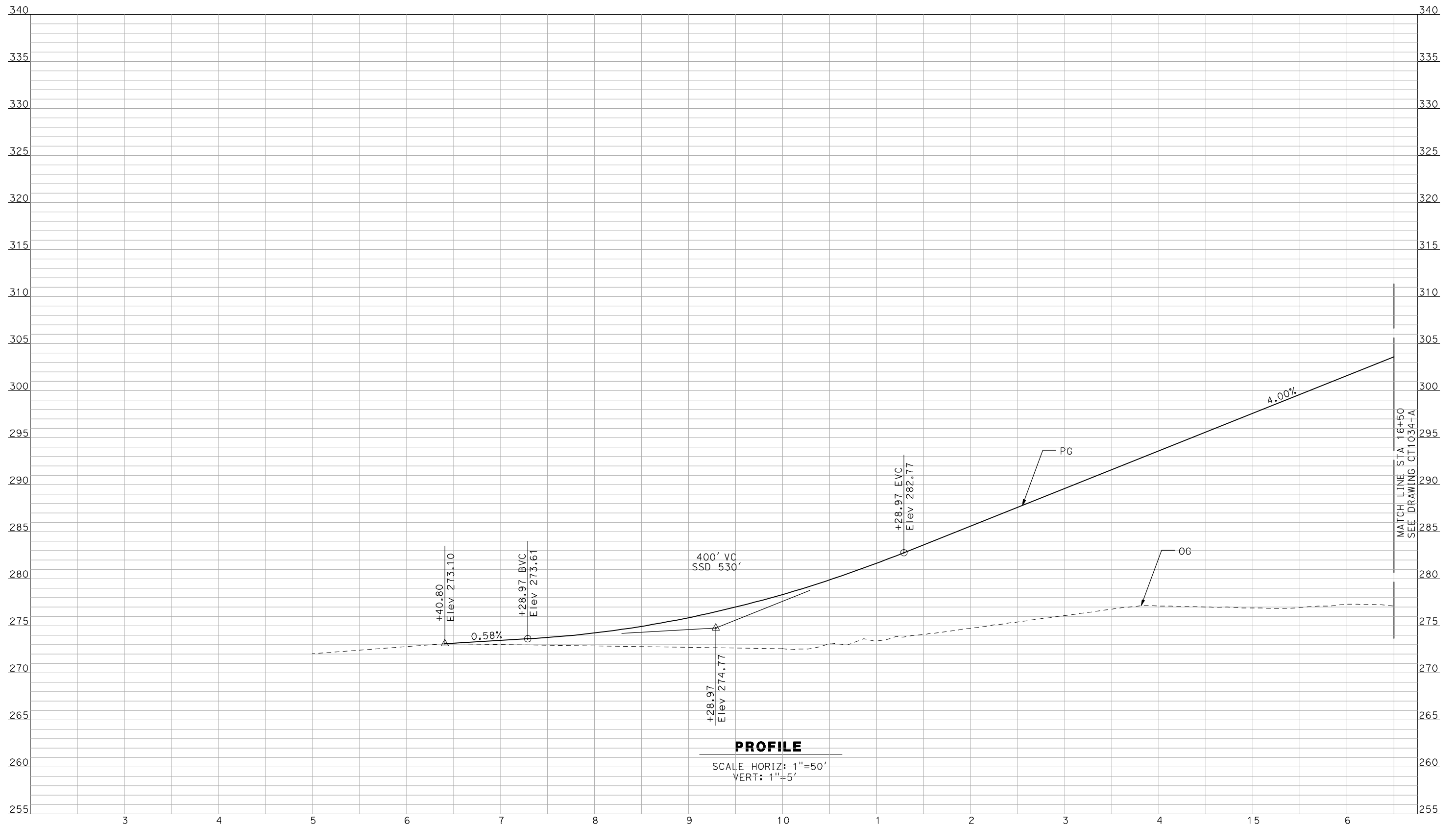
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 UNDERPASS - ROAD 26
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1032-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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MATCH LINE STA 16+50
SEE DRAWING CT1034-A

PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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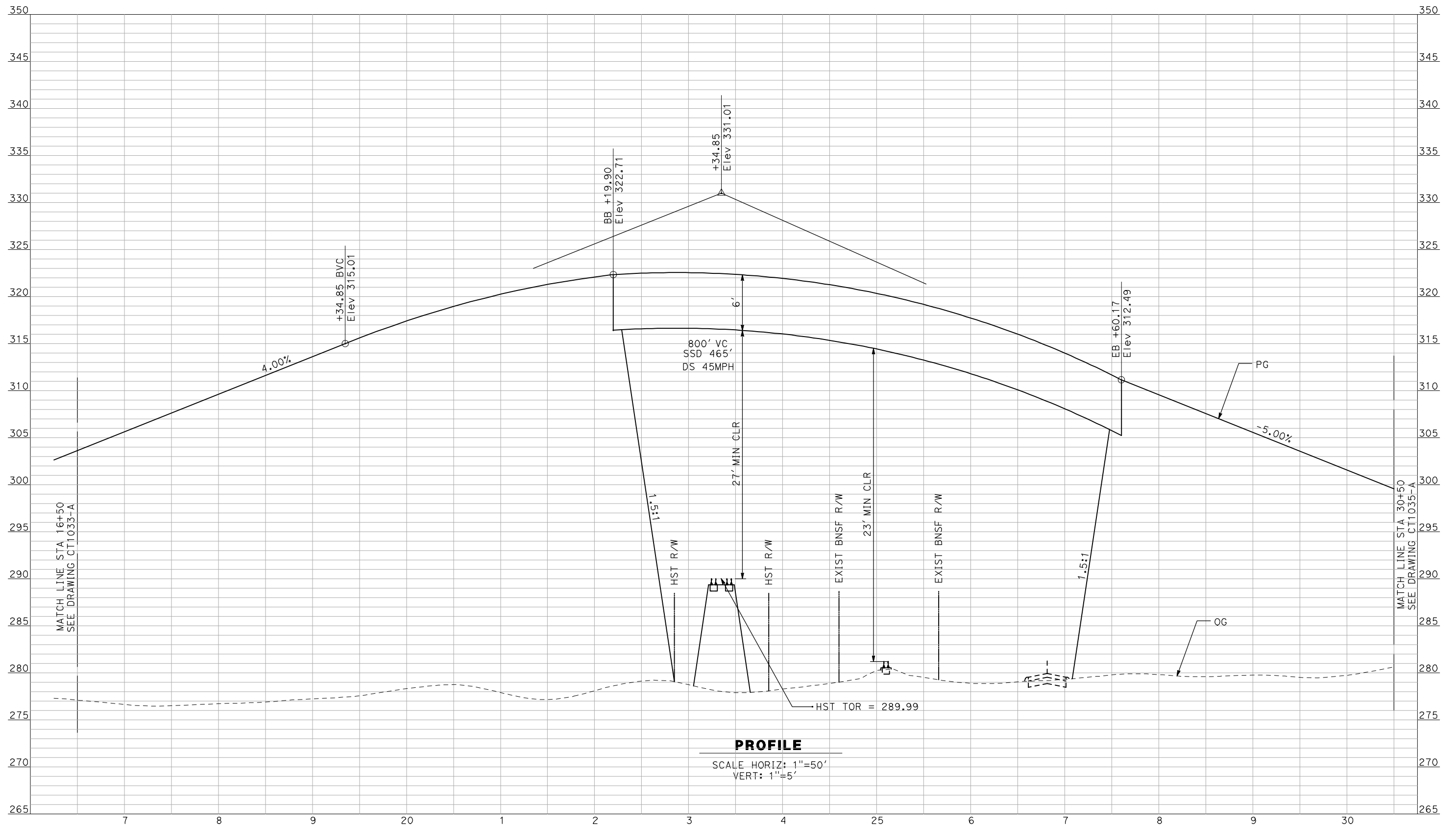


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 21
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1033-A
SCALE
AS SHOWN
SHEET NO.
OF

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 21
 PROFILE
 SHEET 2 OF 3

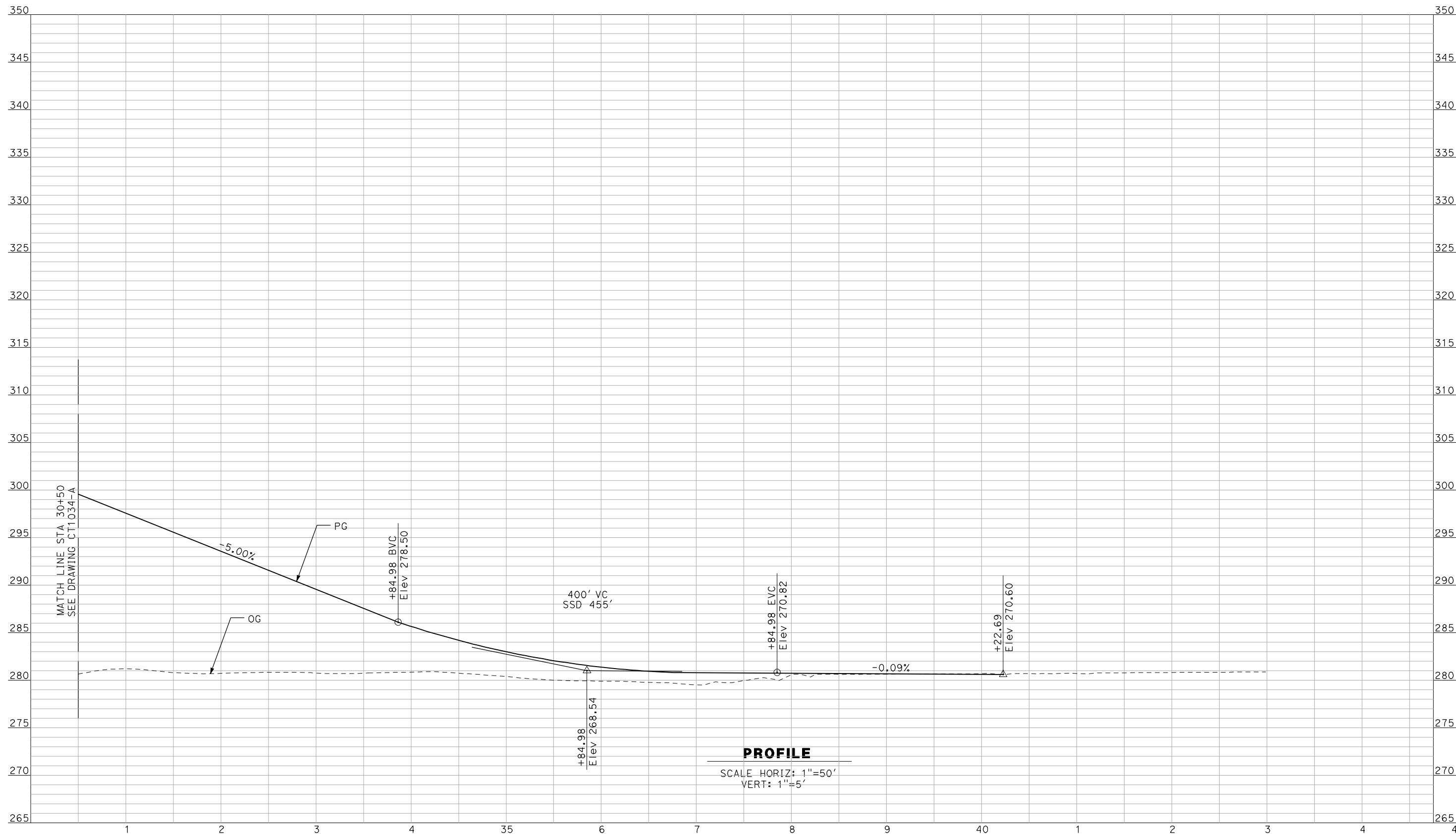
CONTRACT NO.
HSR06-007

DRAWING NO.
CT1034-A

SCALE
AS SHOWN

SHEET NO.
OF

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A. BOONE
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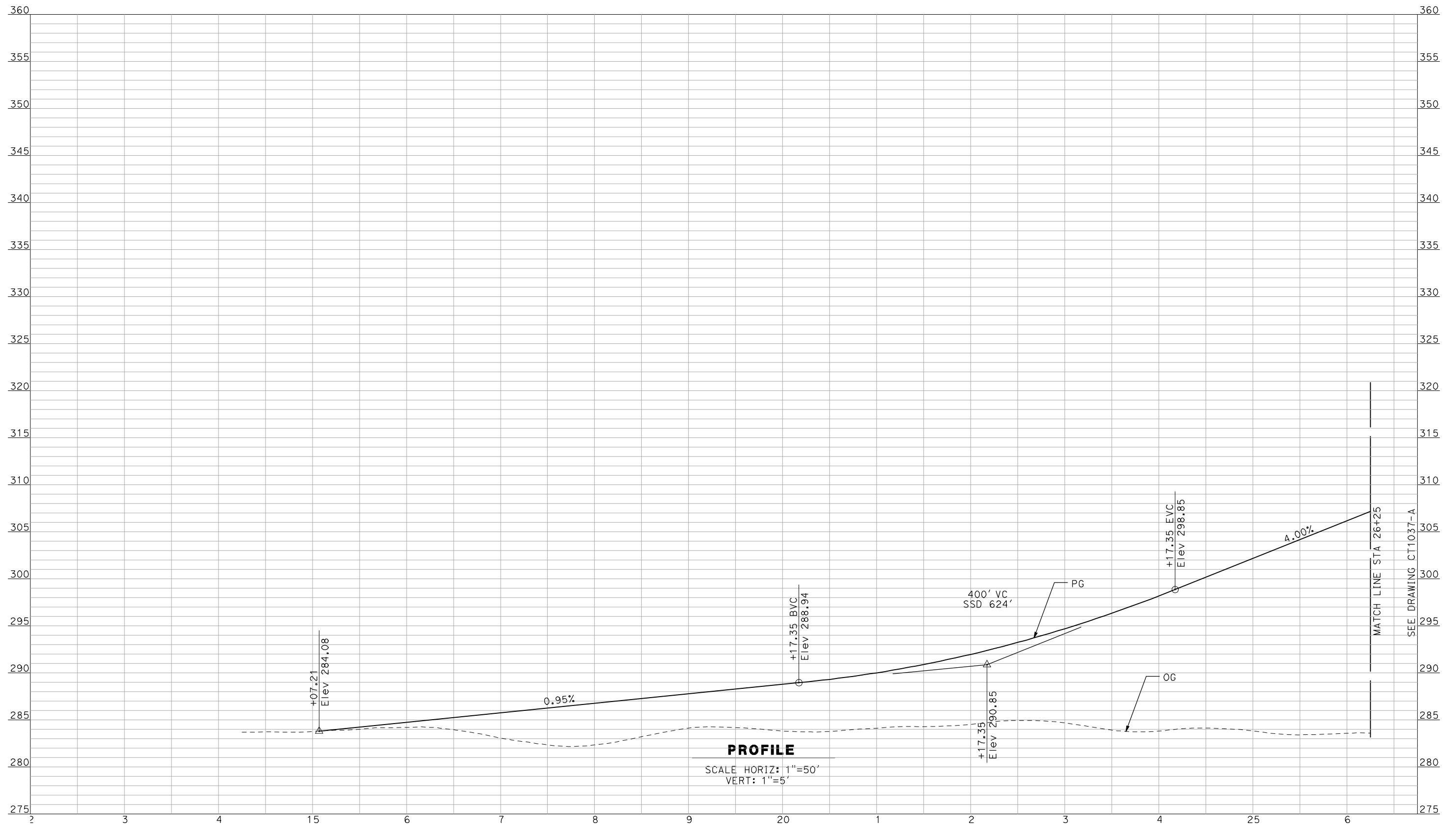


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

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

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1035-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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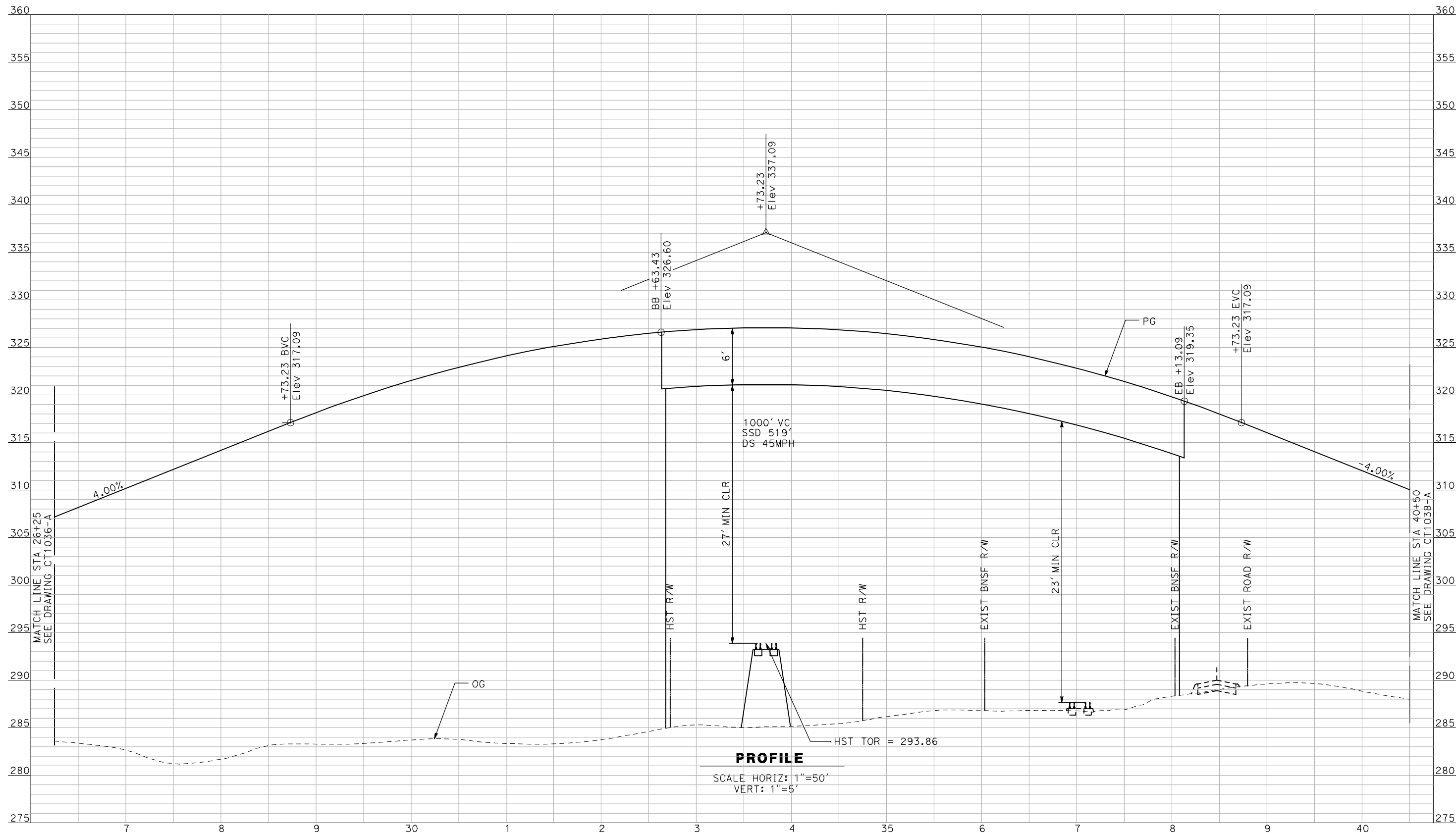


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 24
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1036-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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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 21 WYE
 GRADE SEPARATION - ROAD 24
 PROFILE
 SHEET 2 OF 3

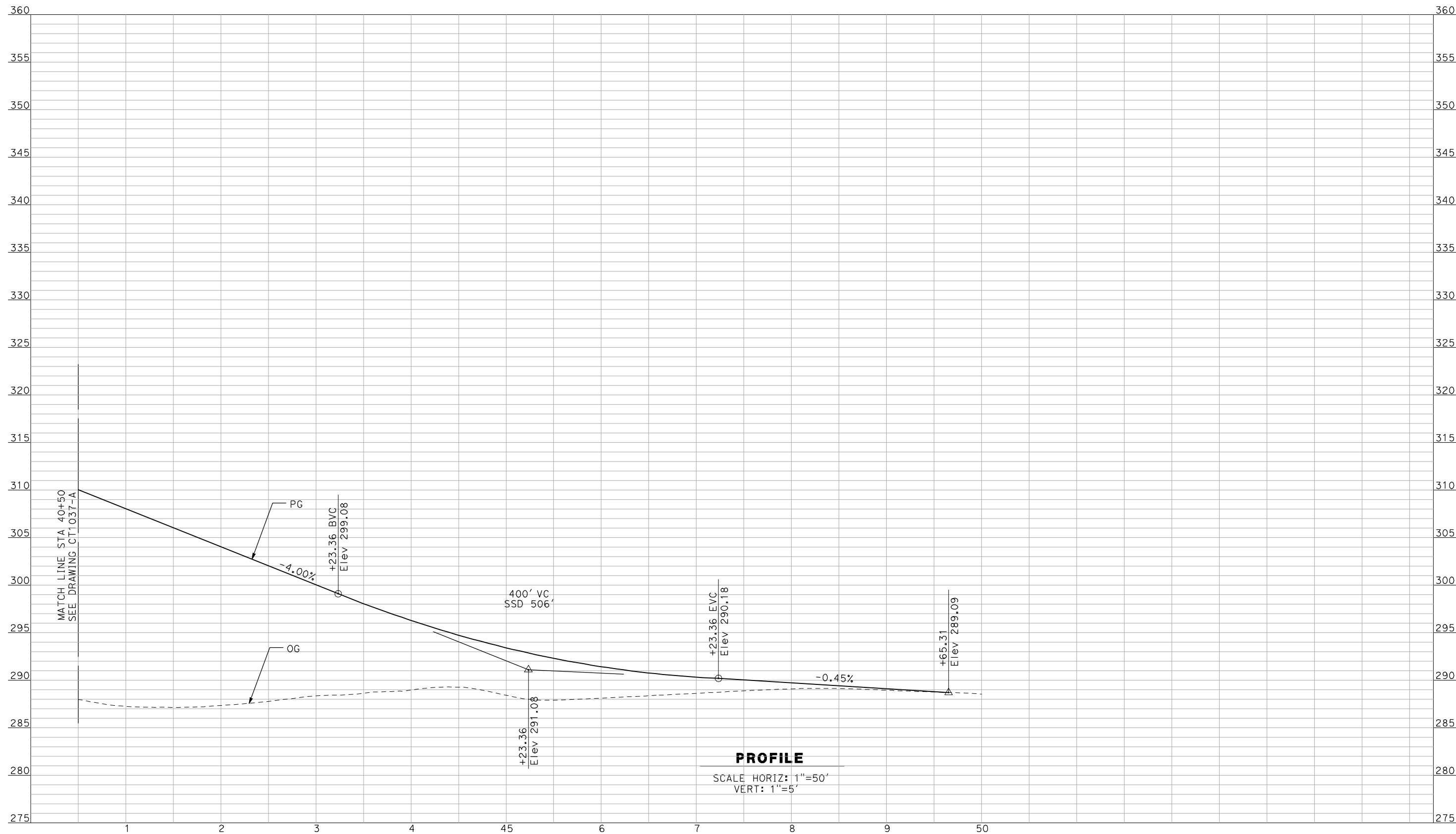
CONTRACT NO.
 HSR06-007

DRAWING NO.
 CT1037-A

SCALE
 AS SHOWN

SHEET NO.
 ### OF ###

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 IN CHARGE
A. BOONE
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04/29/2011

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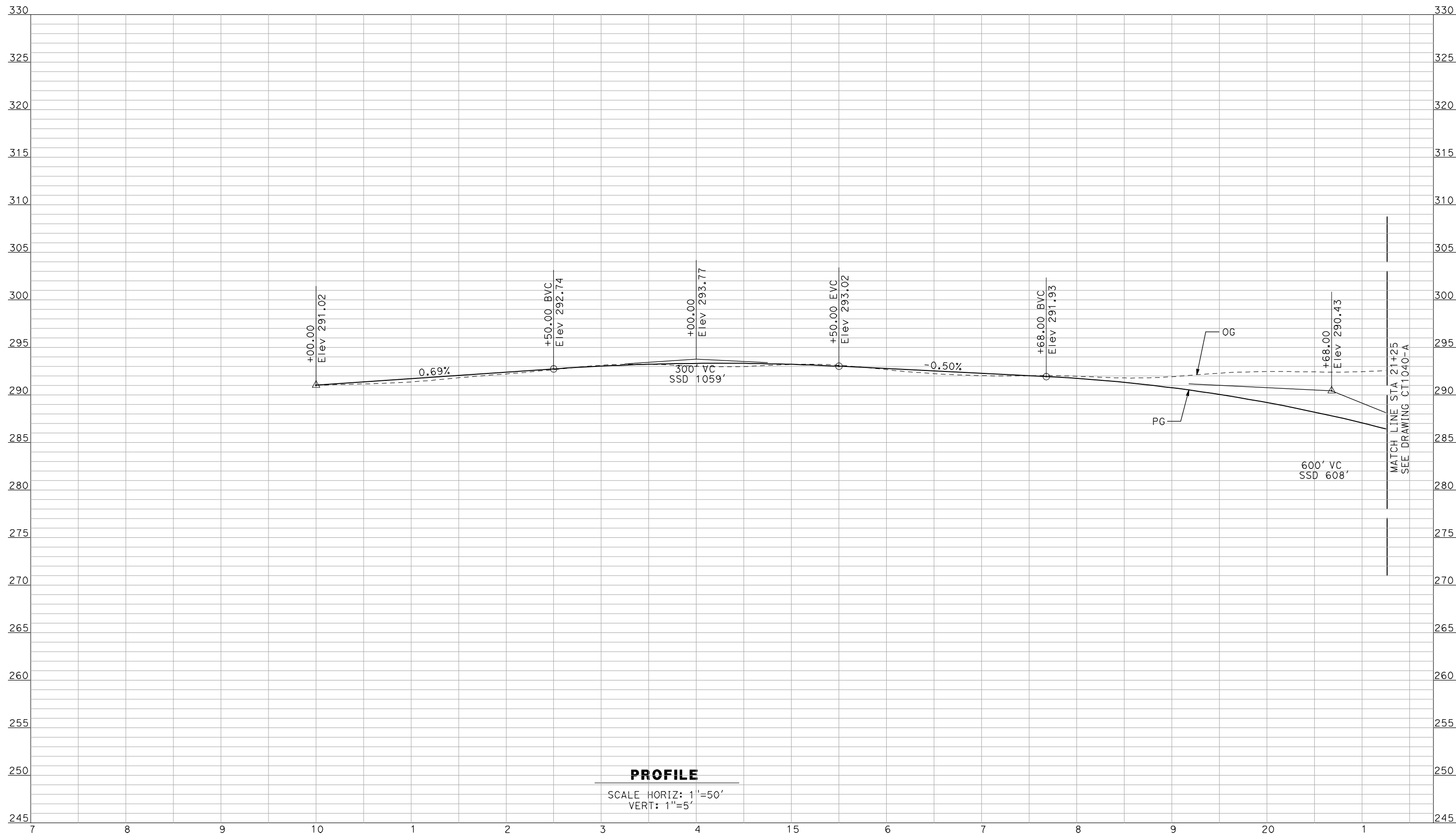


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 24
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1038-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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

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CONSTRUCTION**

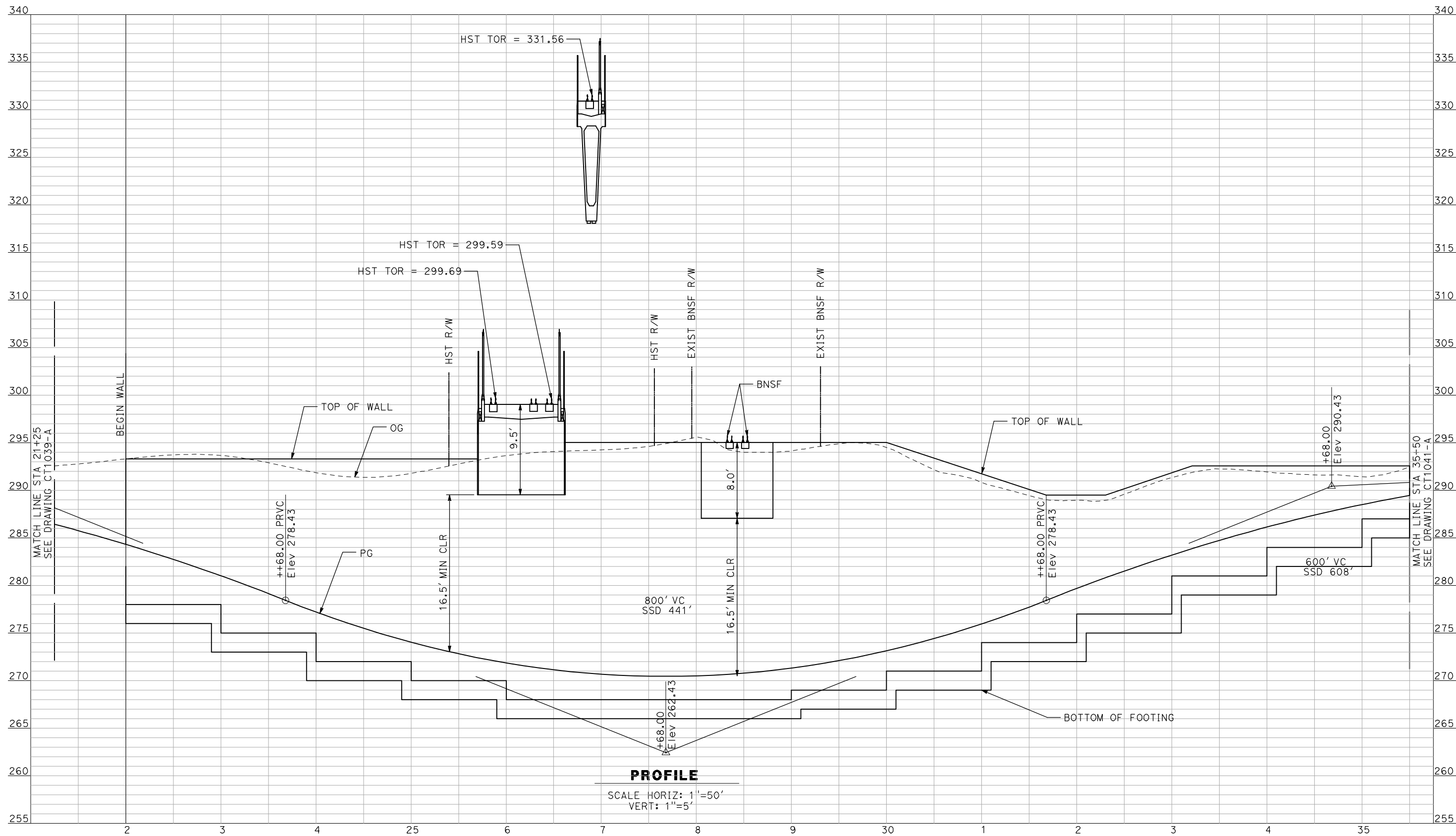


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - AVENUE 24
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1039-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
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DRAWN BY
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CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
04/29/2011

RECORD SET
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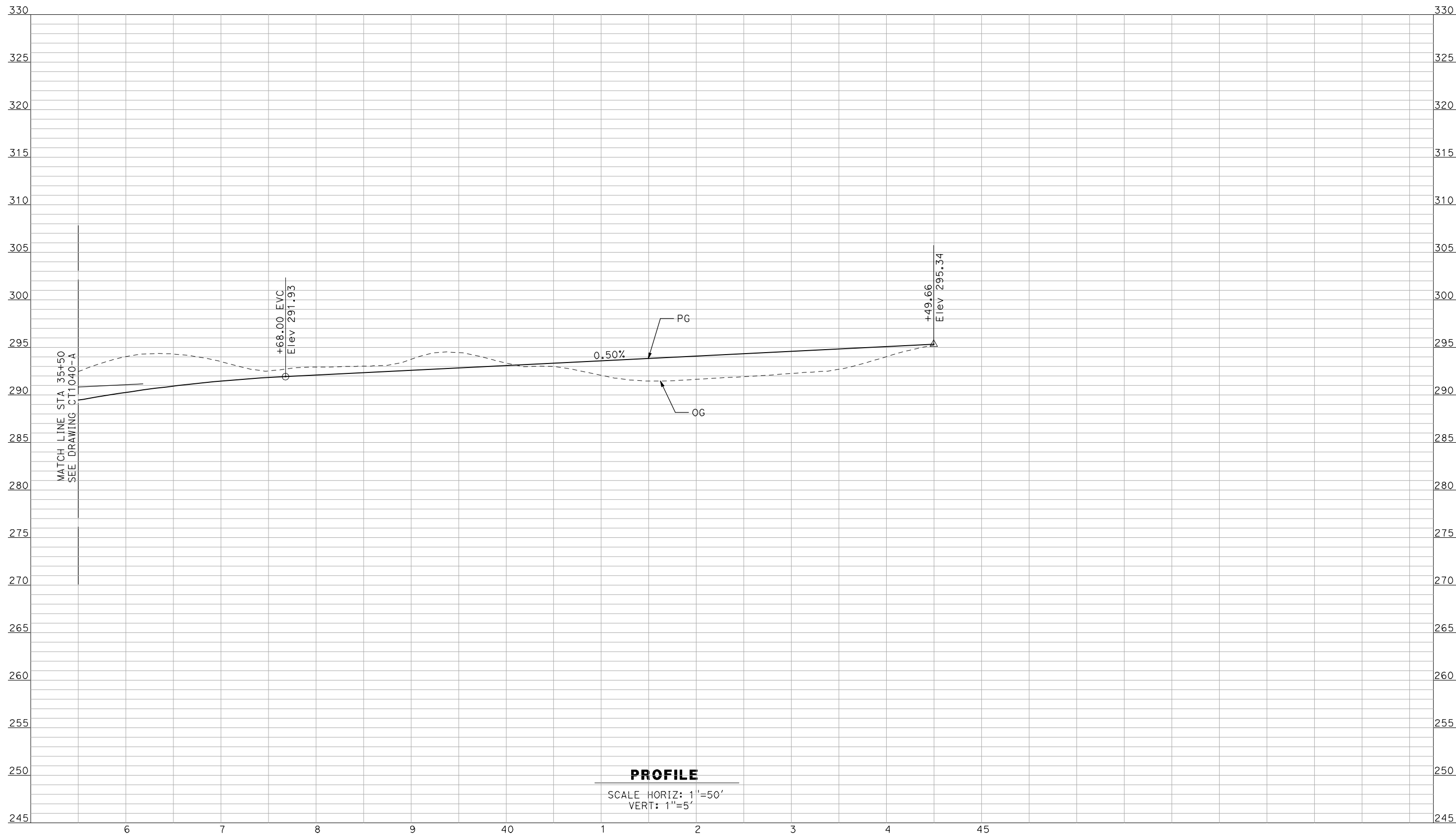
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - AVENUE 24
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1040-A
SCALE
AS SHOWN
SHEET NO.
OF

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A. BOONE
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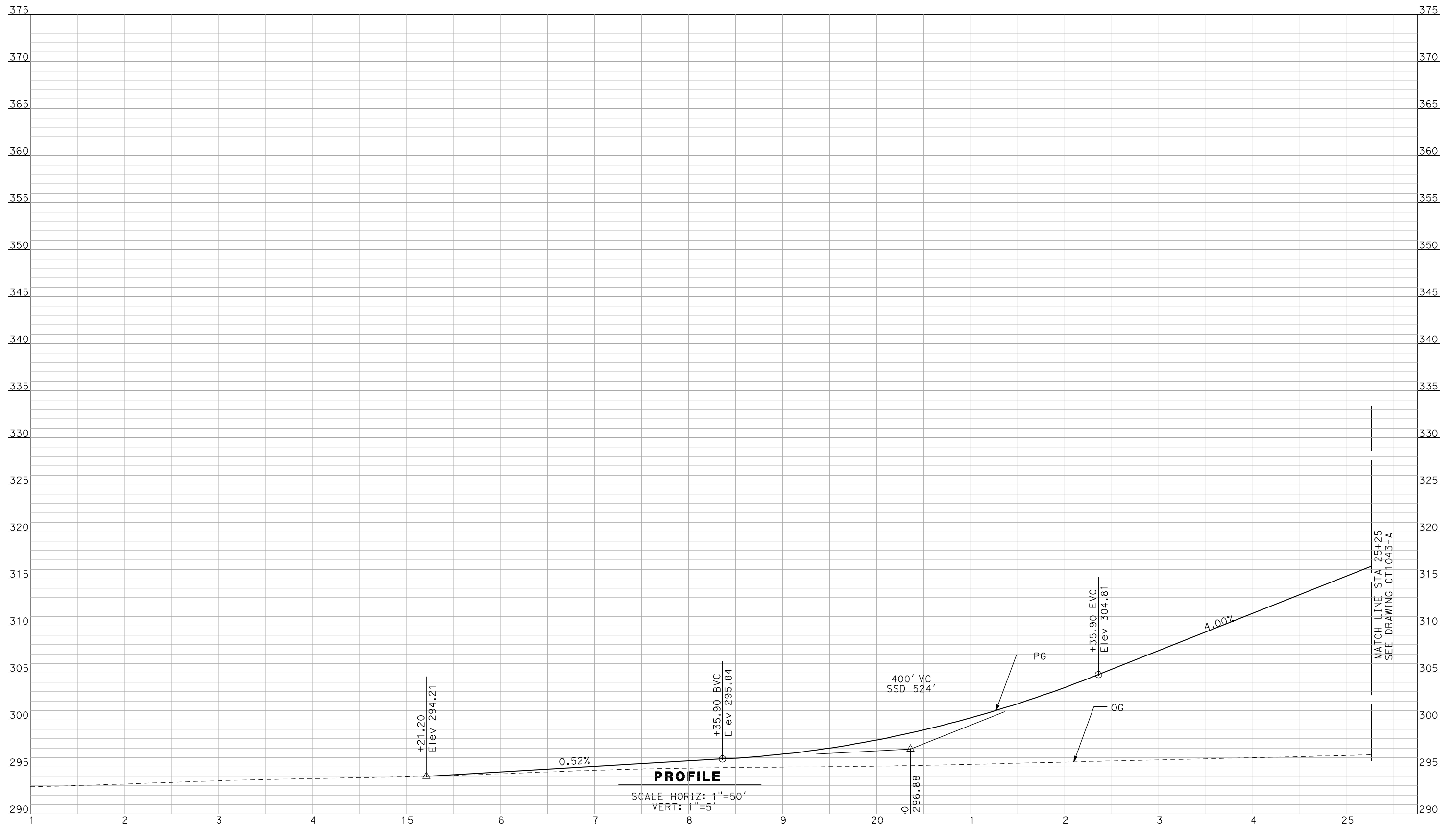
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 UNDERPASS - AVENUE 24
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1041-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

NOT FOR CONSTRUCTION
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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
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RECORD SET
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SUBMITTAL

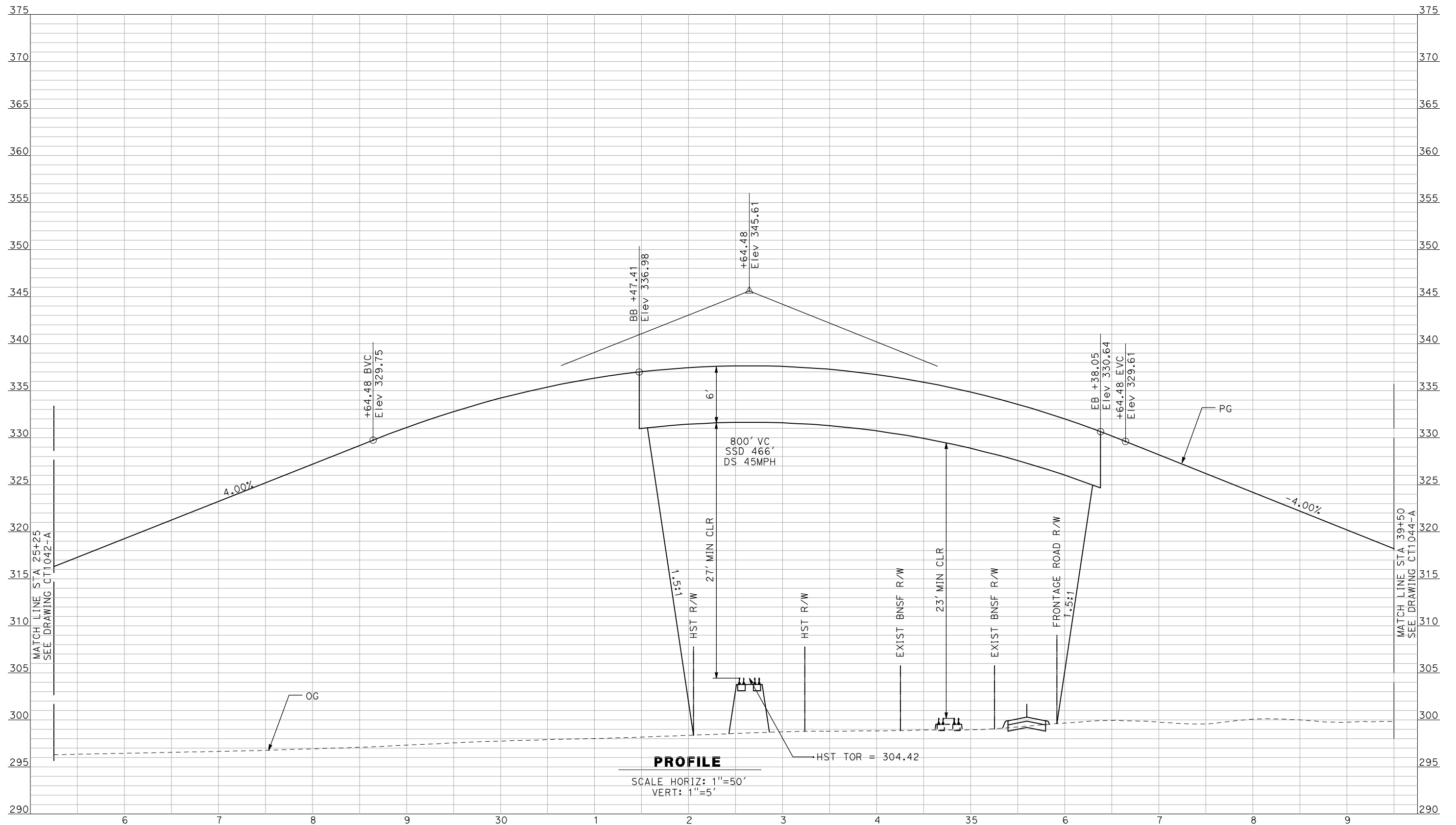
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 26
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1042-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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REV	DATE	BY	CHK	APP	DESCRIPTION

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 IN CHARGE
A. BOONE
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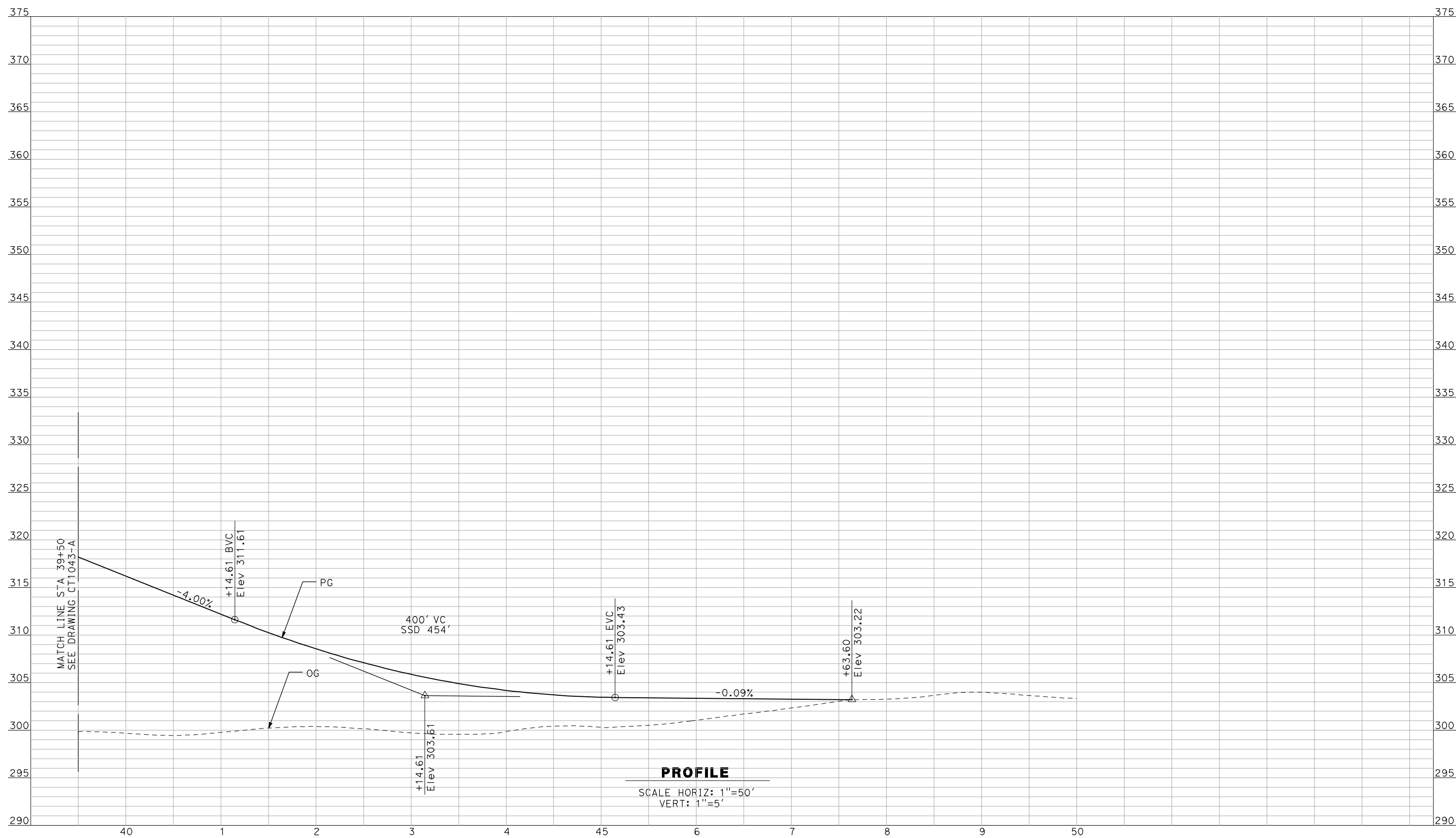


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 26
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1043-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:04:22 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 1A - Ave 21 Wye Grade Separation\Profile\MF-CT-1044-A.dgn



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

RECORD SET
15% DESIGN
SUBMITTAL

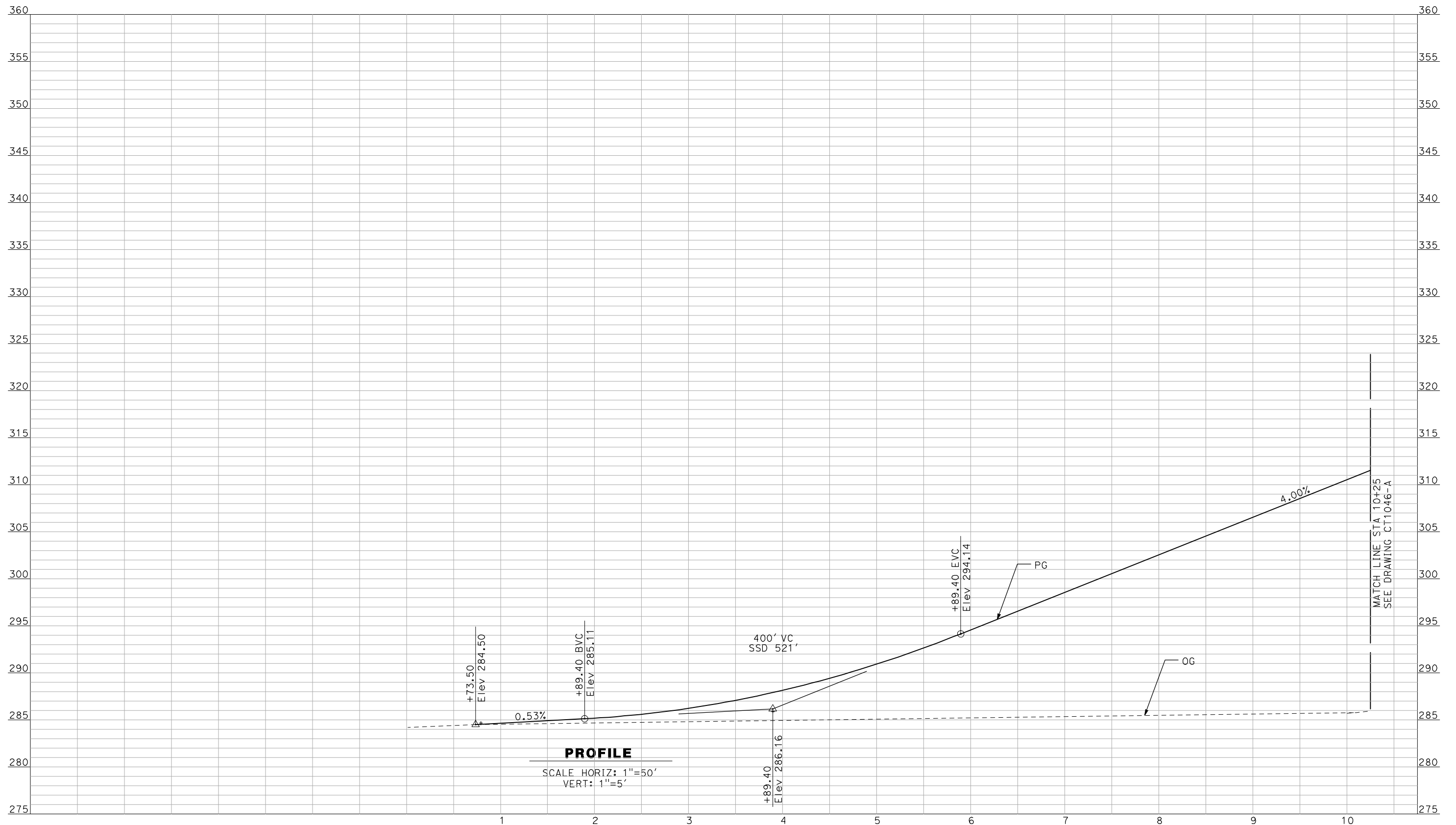
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 26
 PROFILE
 SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1044-A
SCALE AS SHOWN
SHEET NO. ### OF ###

4/29/2011 2:04:29 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 1A - Ave 21 Wye Grade Separation\Profile\MF-CT-1045-A.dgn



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

RECORD SET
15% DESIGN
SUBMITTAL

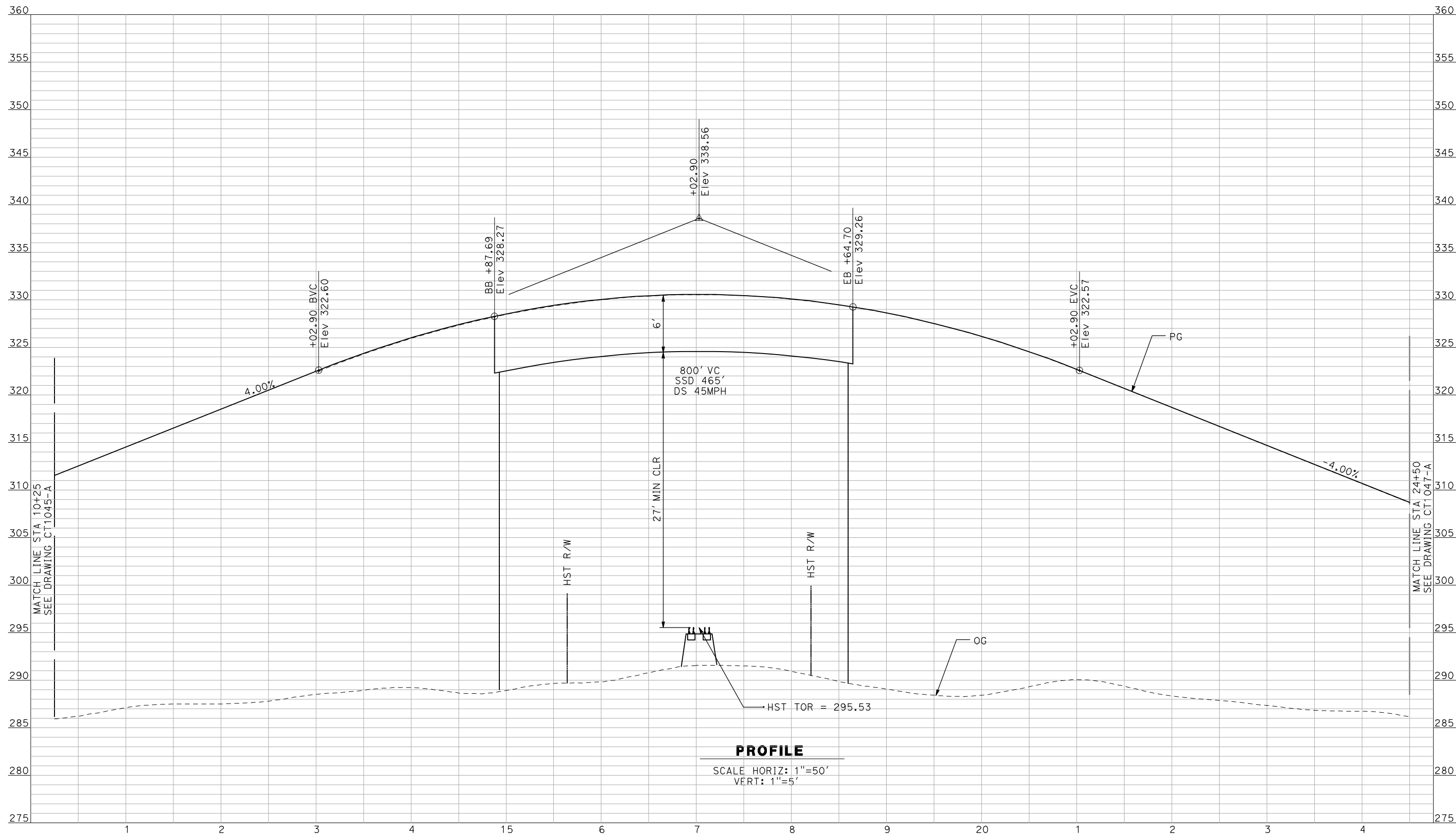
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - SANTA FE DR
PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1045-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
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RECORD SET
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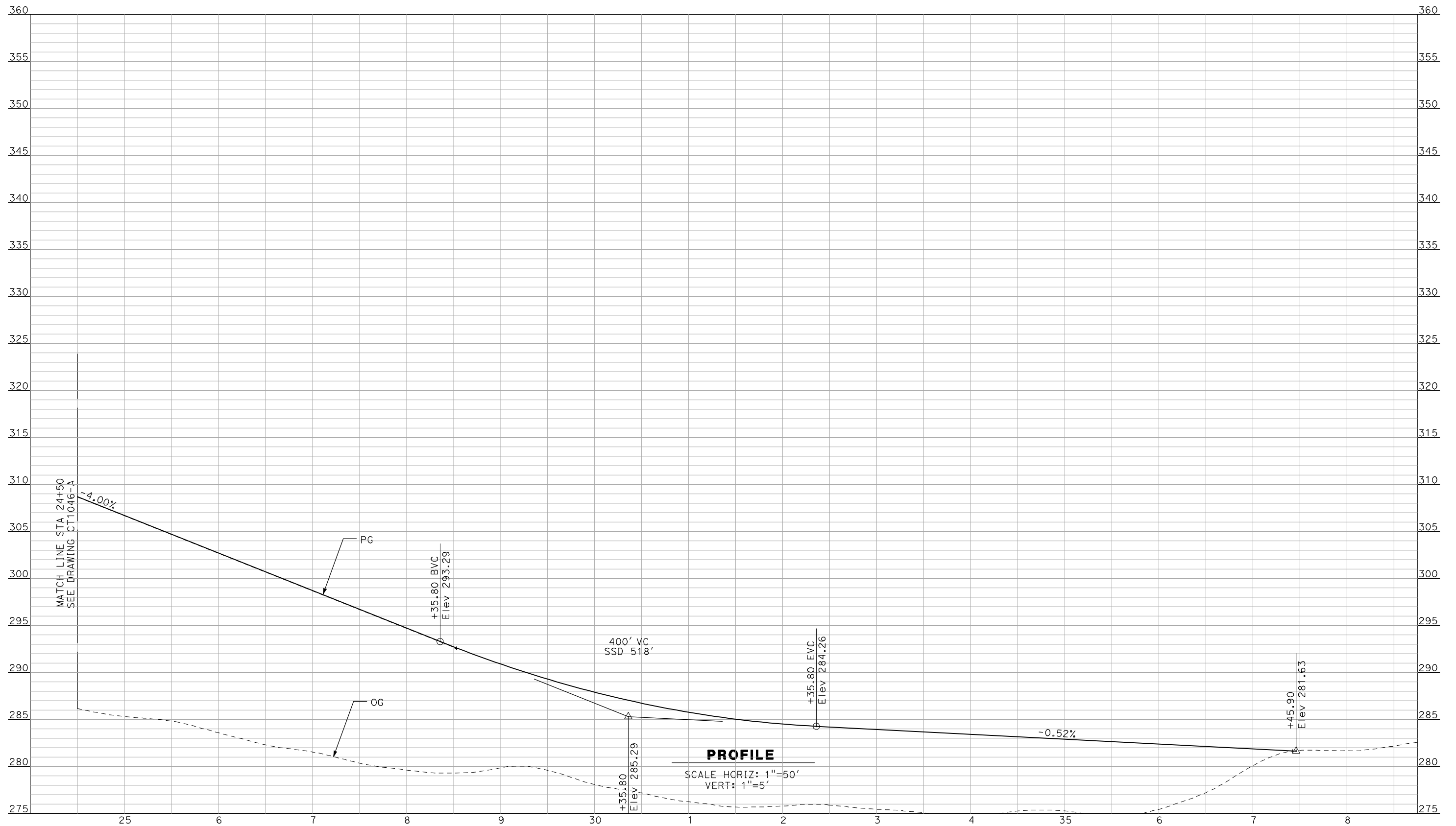


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - SANTA FE DR
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1046-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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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

RECORD SET
15% DESIGN
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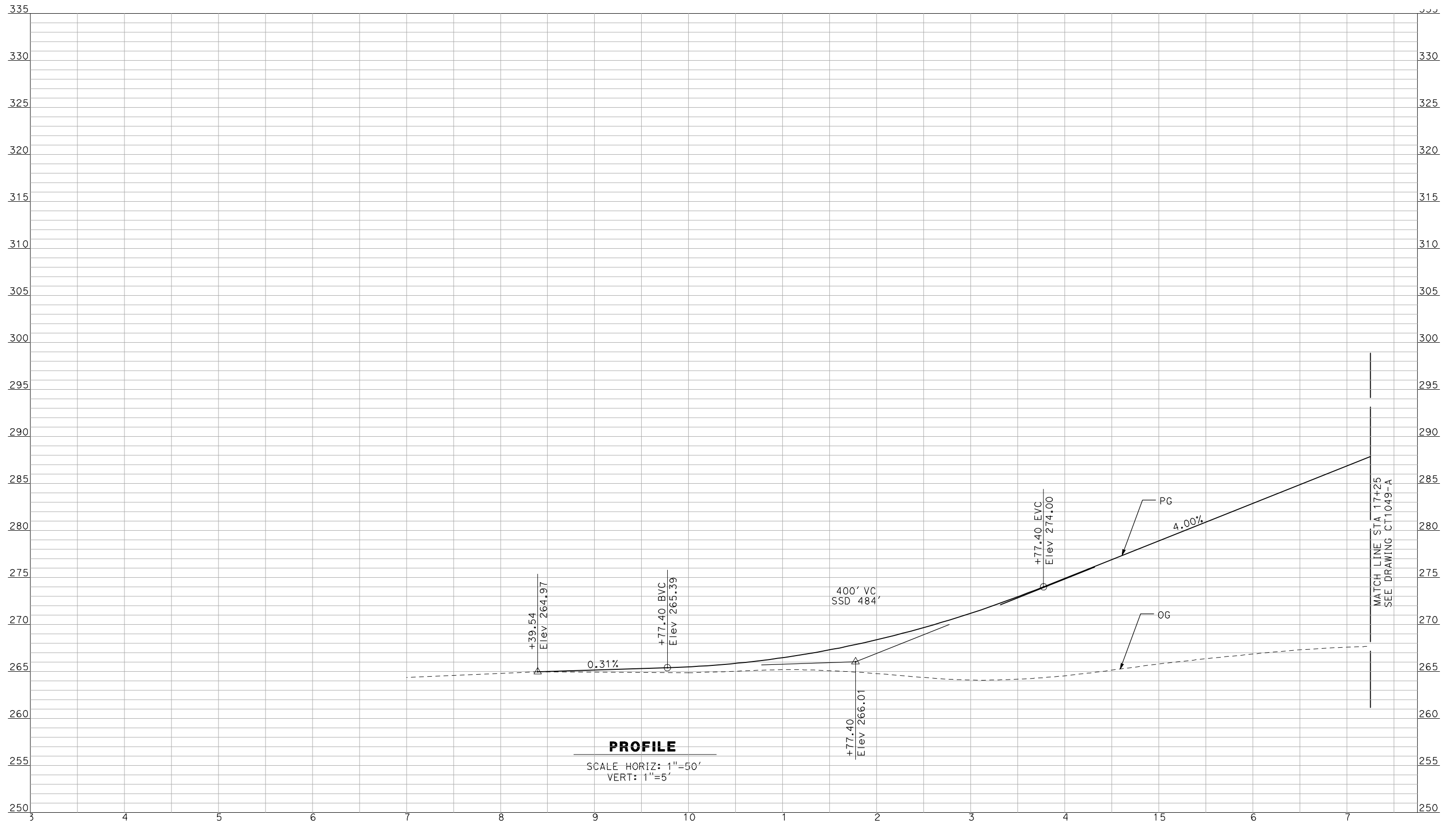


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - SANTA FE DR
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1047-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:04:40 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 1A - Ave 21 Wye Grade Separation\Profile\MF-CT-1048-A.dgn



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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
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RECORD SET
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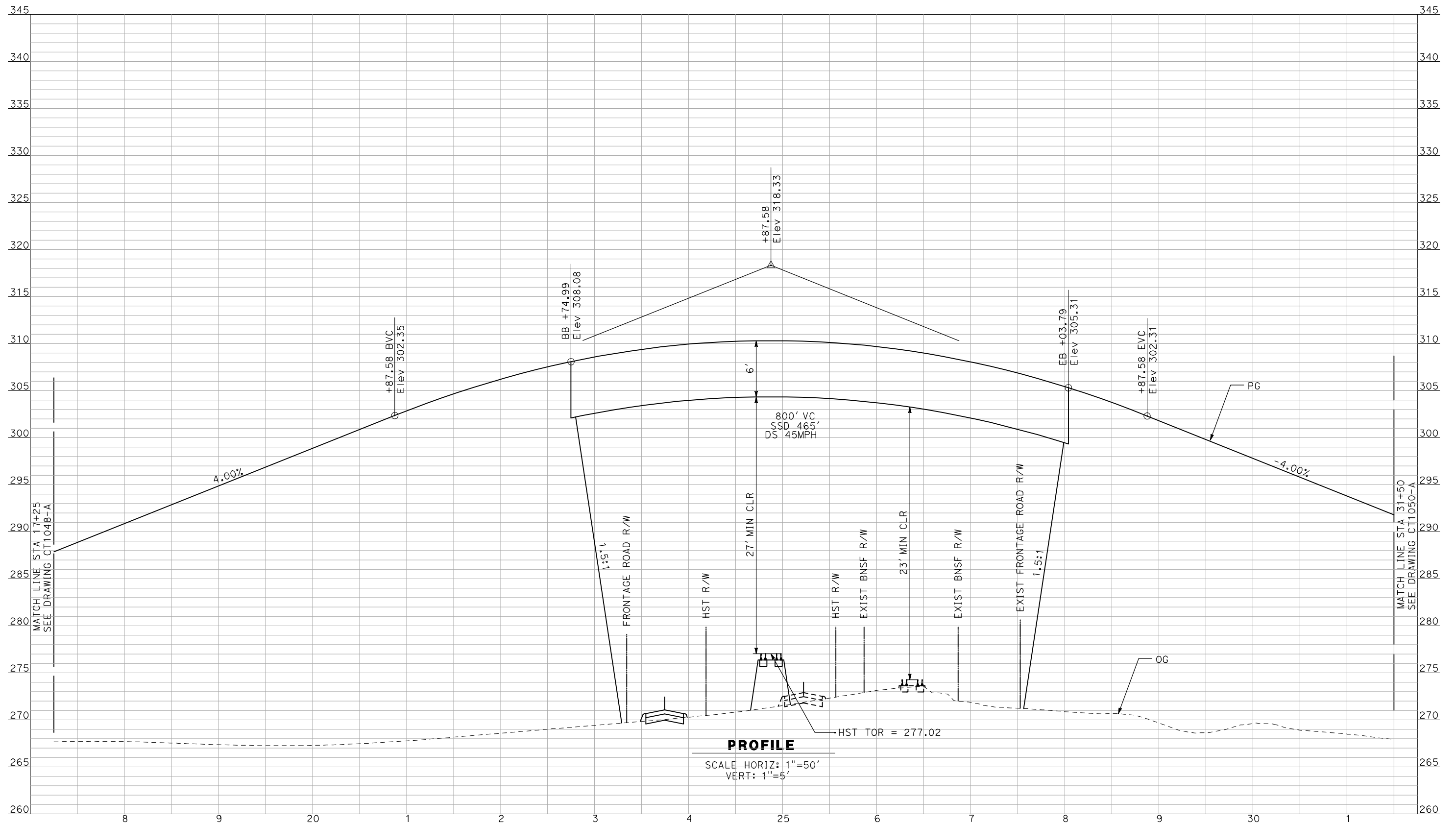


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - BUCHANAN HALLOW RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1048-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

RECORD SET
15% DESIGN
SUBMITTAL

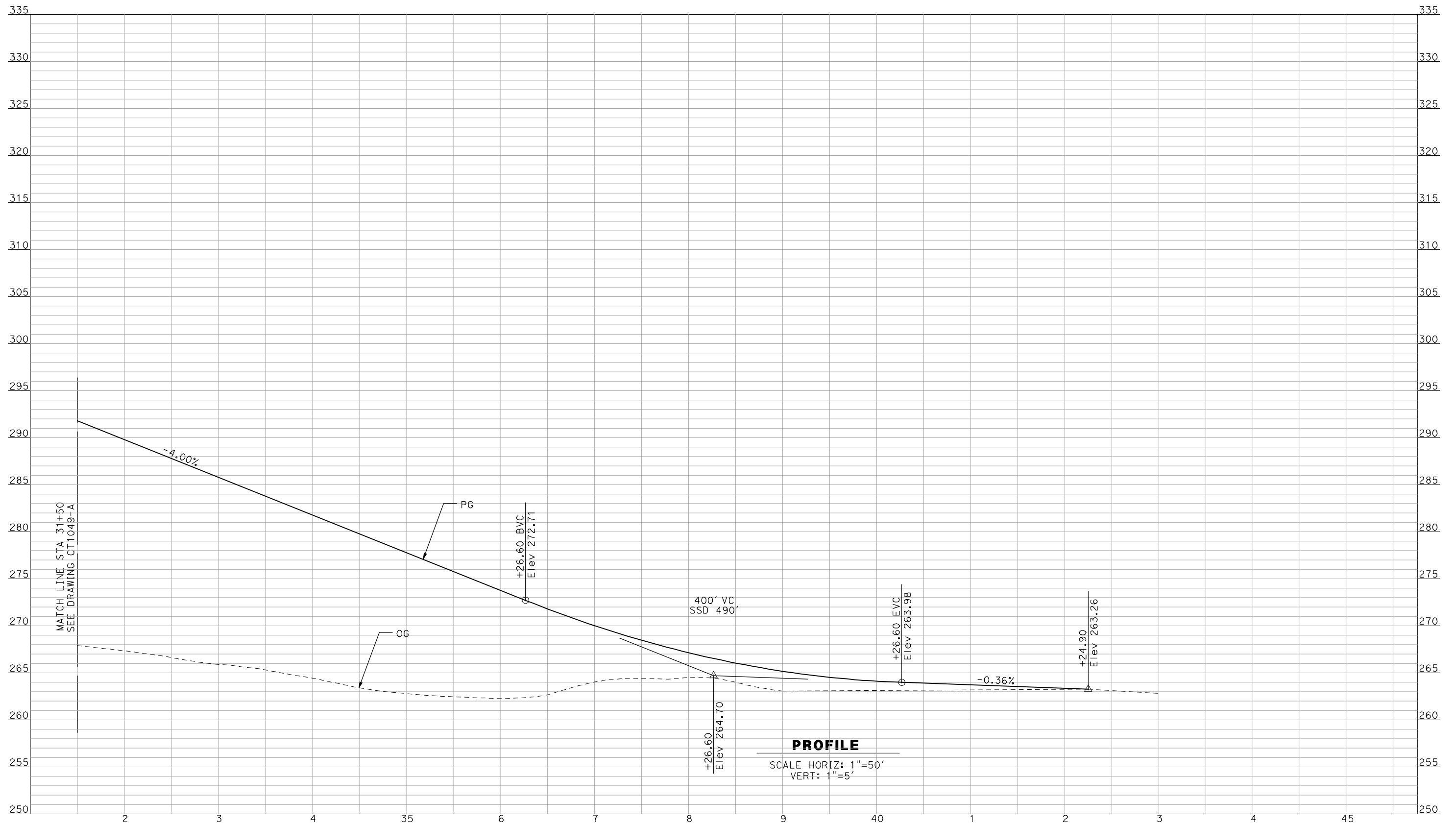
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - BUCHANAN HALLOW RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1049-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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A. BOONE
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04/29/2011

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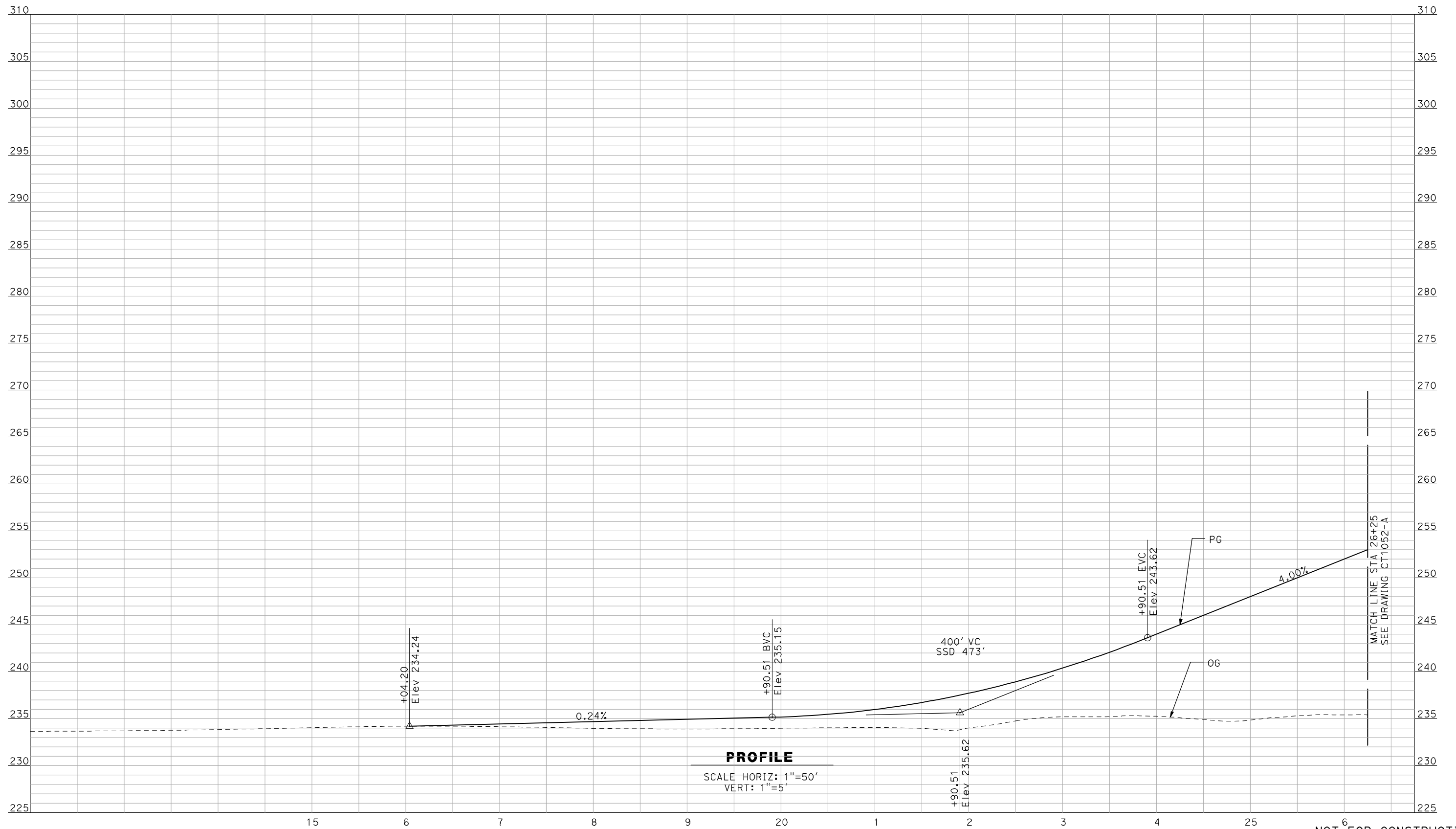


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - BUCHANAN HALLOW RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1050-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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

RECORD SET
15% DESIGN
SUBMITTAL

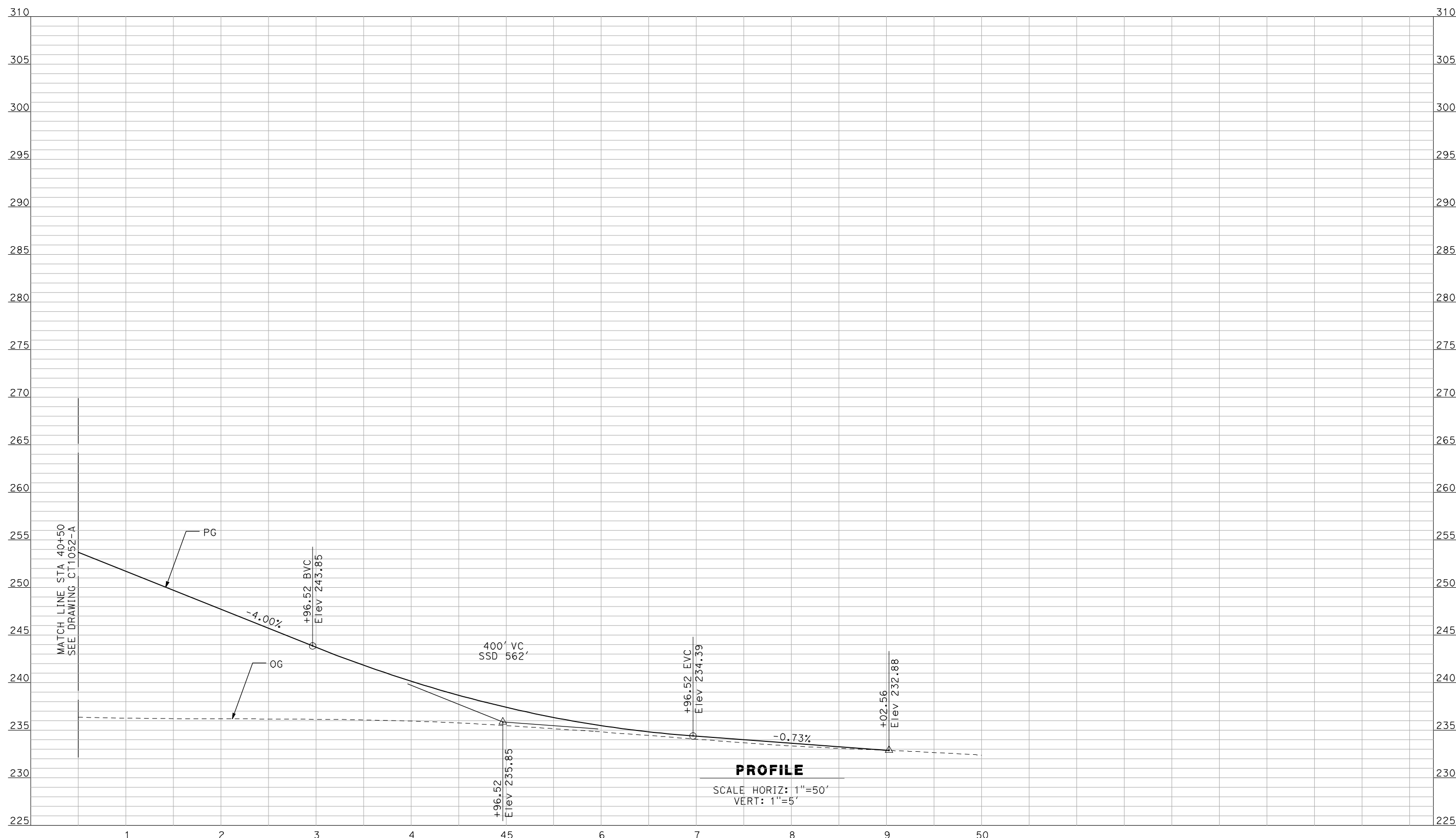
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - BURCHELL RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1051-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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

RECORD SET
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SUBMITTAL

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CONSTRUCTION

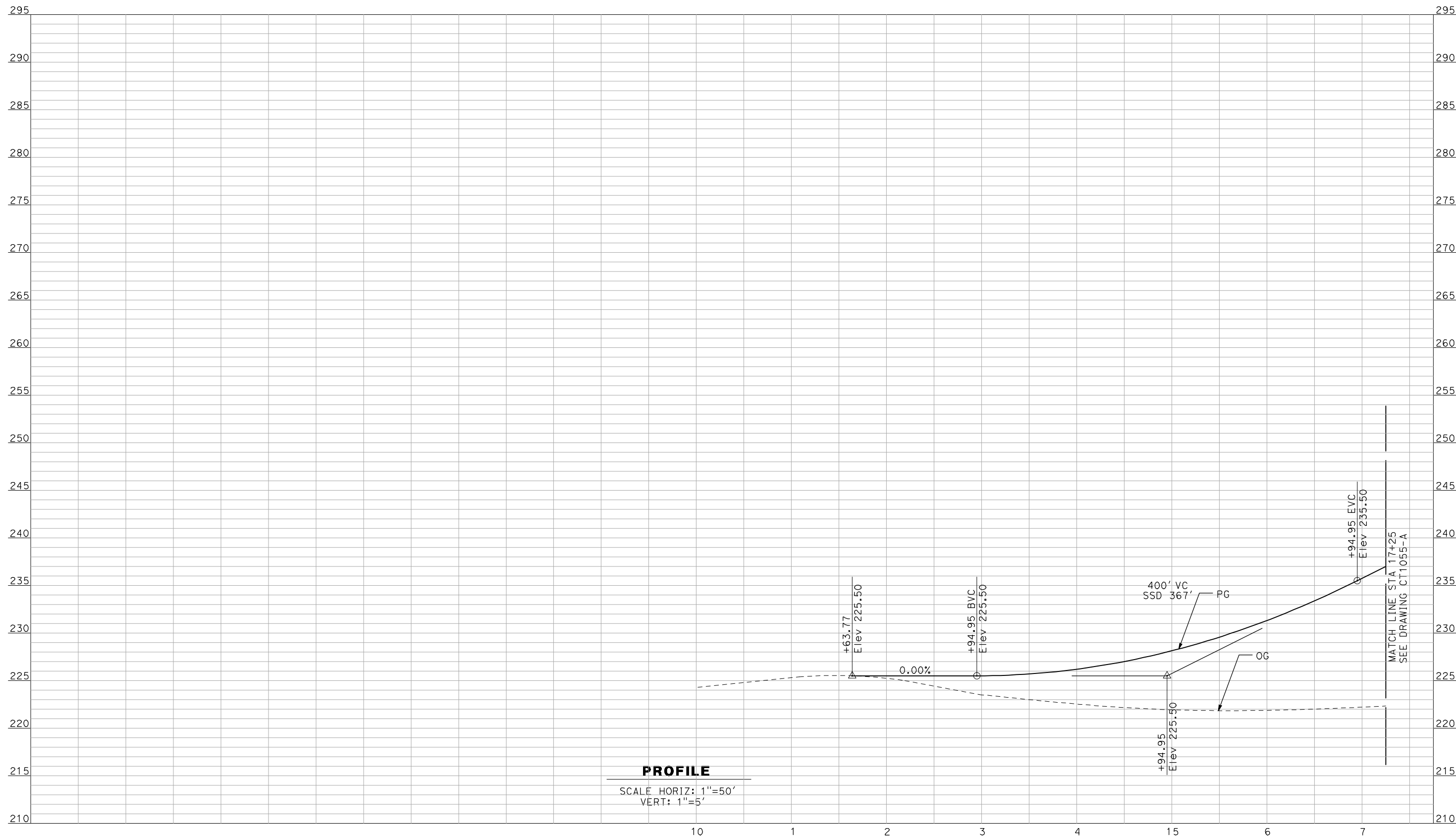


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - BURCHELL RD
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1053-A
SCALE
AS SHOWN
SHEET NO.
OF

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

RECORD SET
15% DESIGN
SUBMITTAL

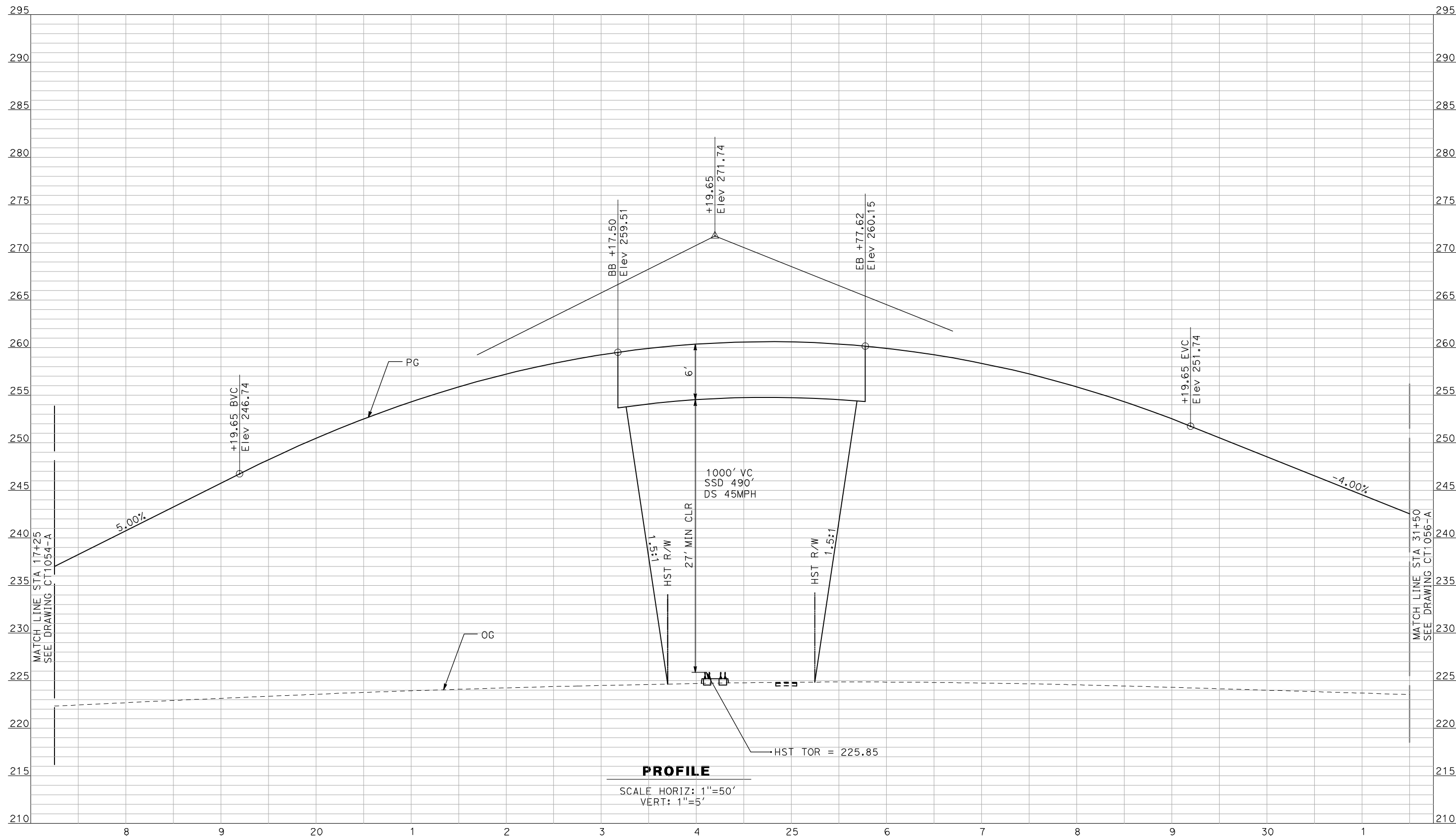
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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

RECORD SET
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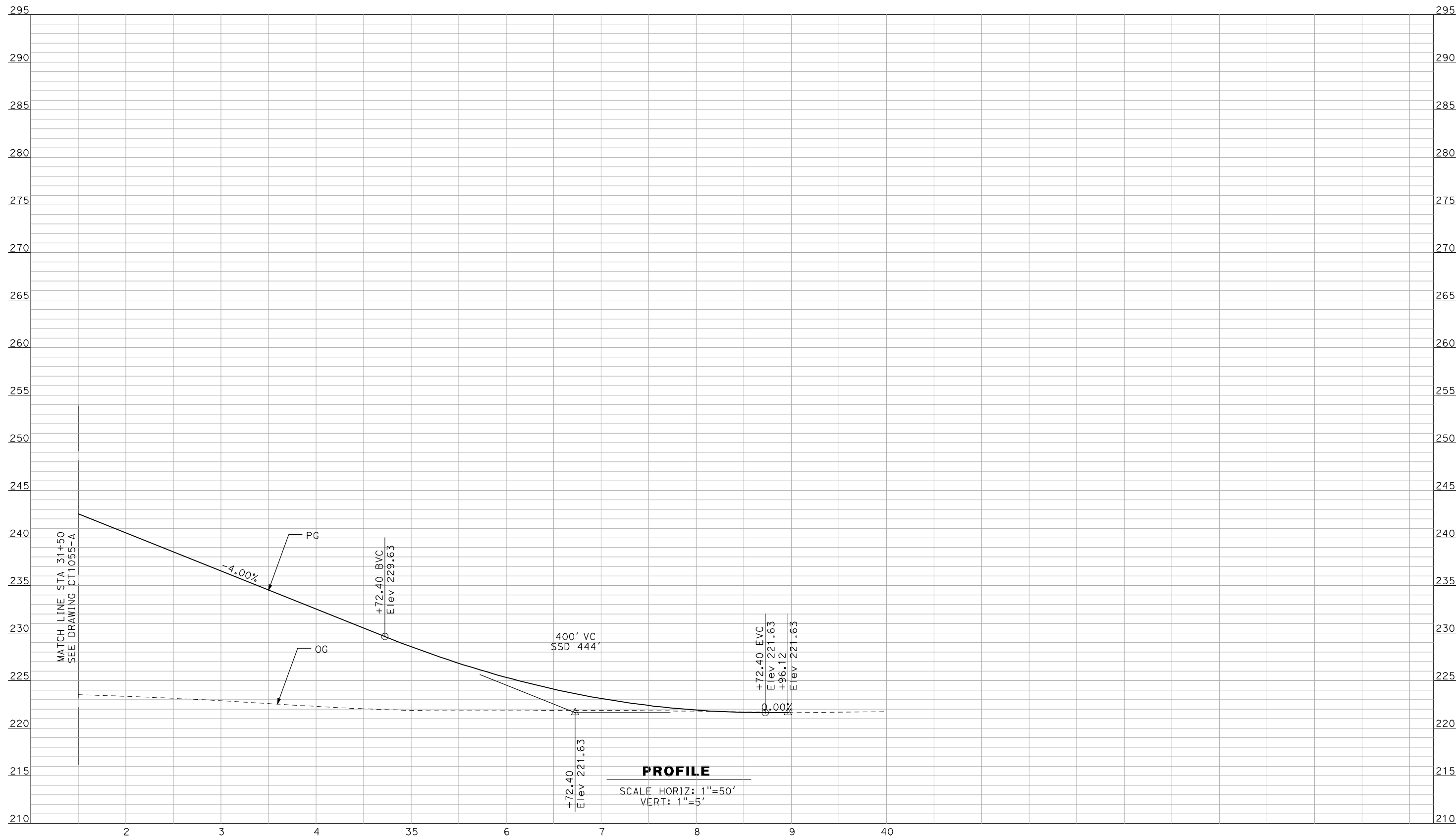


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - PLAINSBUR. GIBSON RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1055-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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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

RECORD SET
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CONSTRUCTION

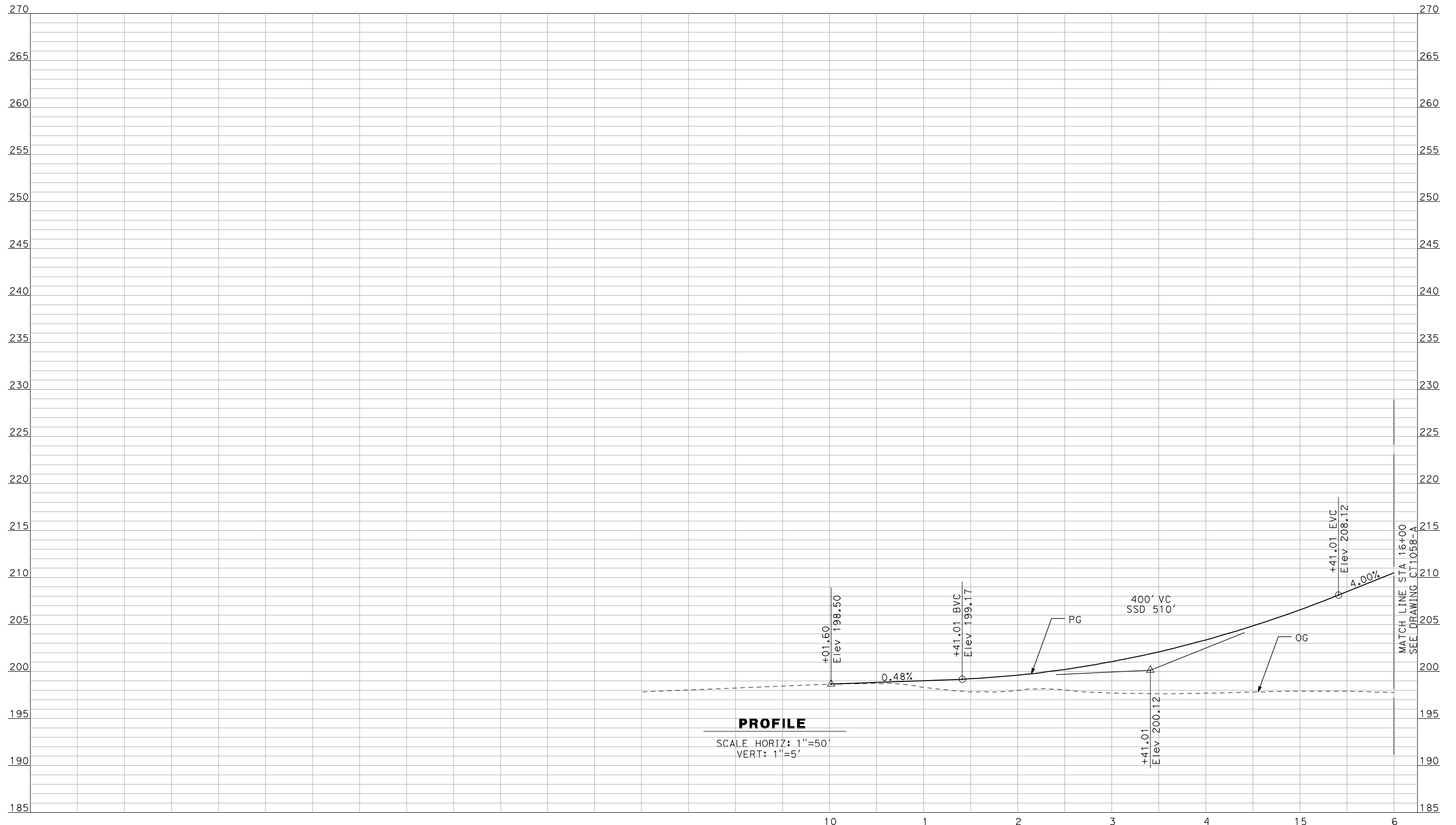


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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DESIGNED BY
R. GIBSON
 DRAWN BY
F. DEMARCO
 CHECKED BY
J. ZANDIAN
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A. BOONE
 DATE
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RECORD SET
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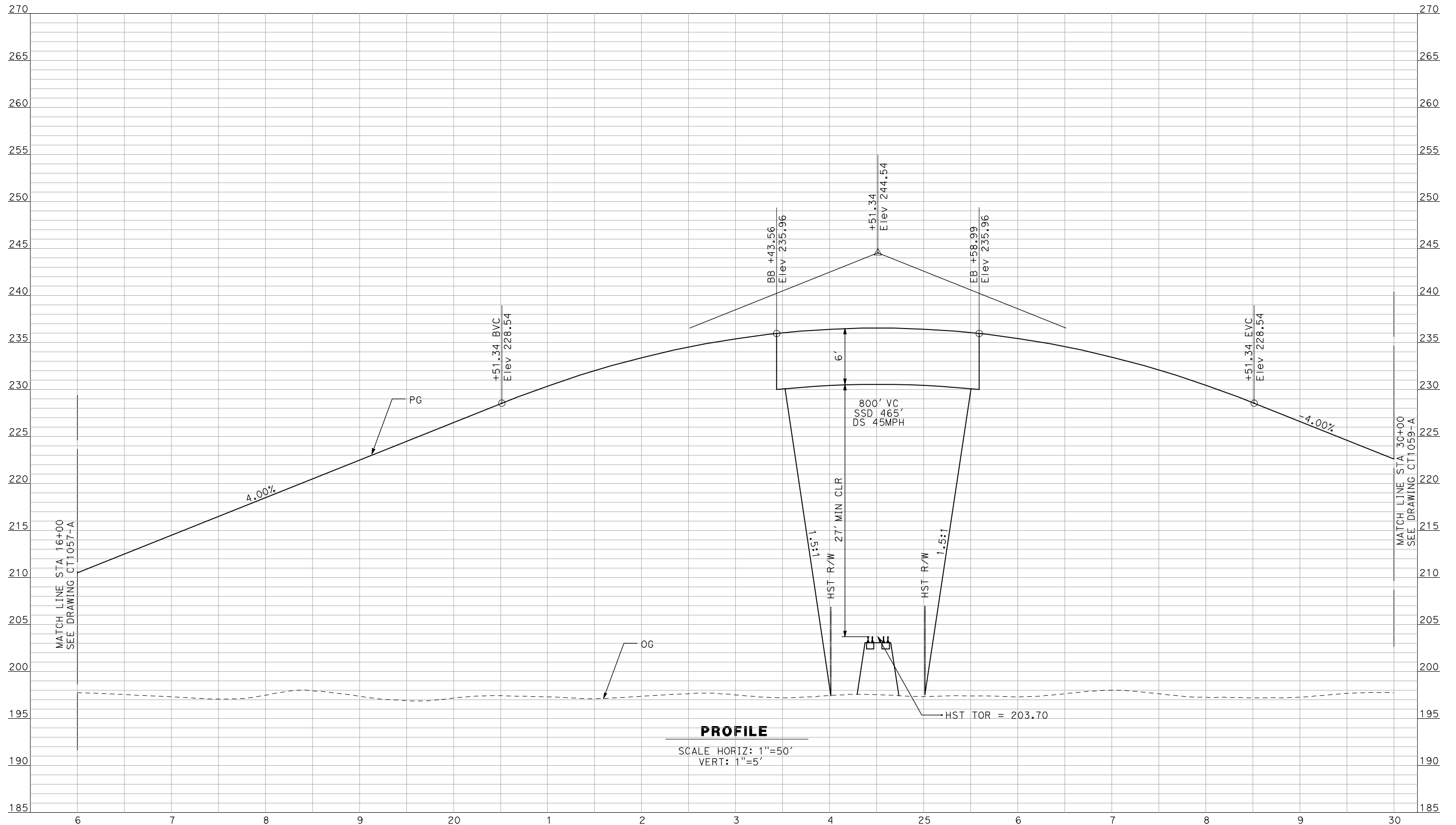
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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

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

**RECORD SET
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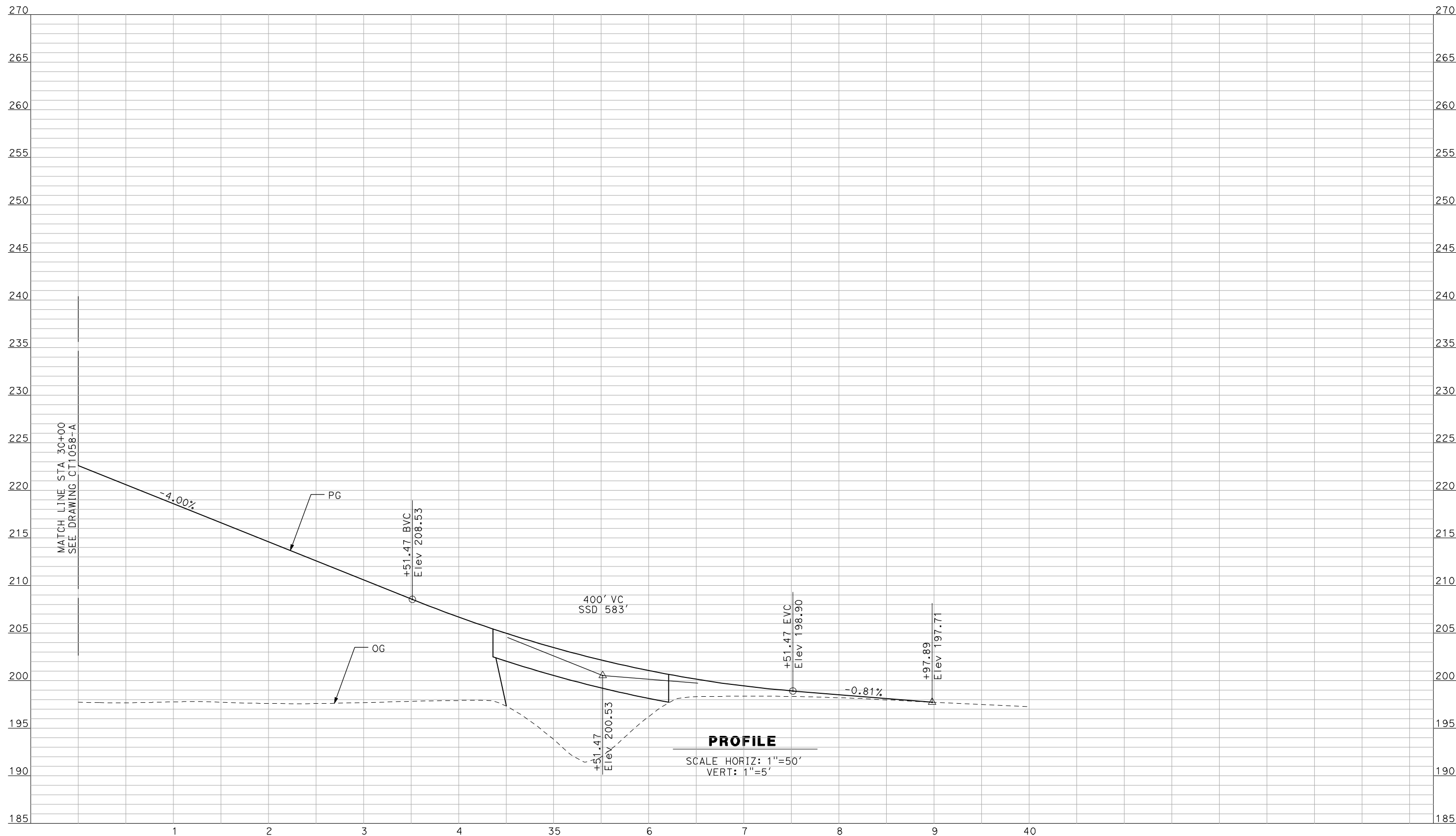


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 21 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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 CHECKED BY
J. ZANDIAN
 IN CHARGE
A. BOONE
 DATE
04/29/2011

RECORD SET
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CONSTRUCTION

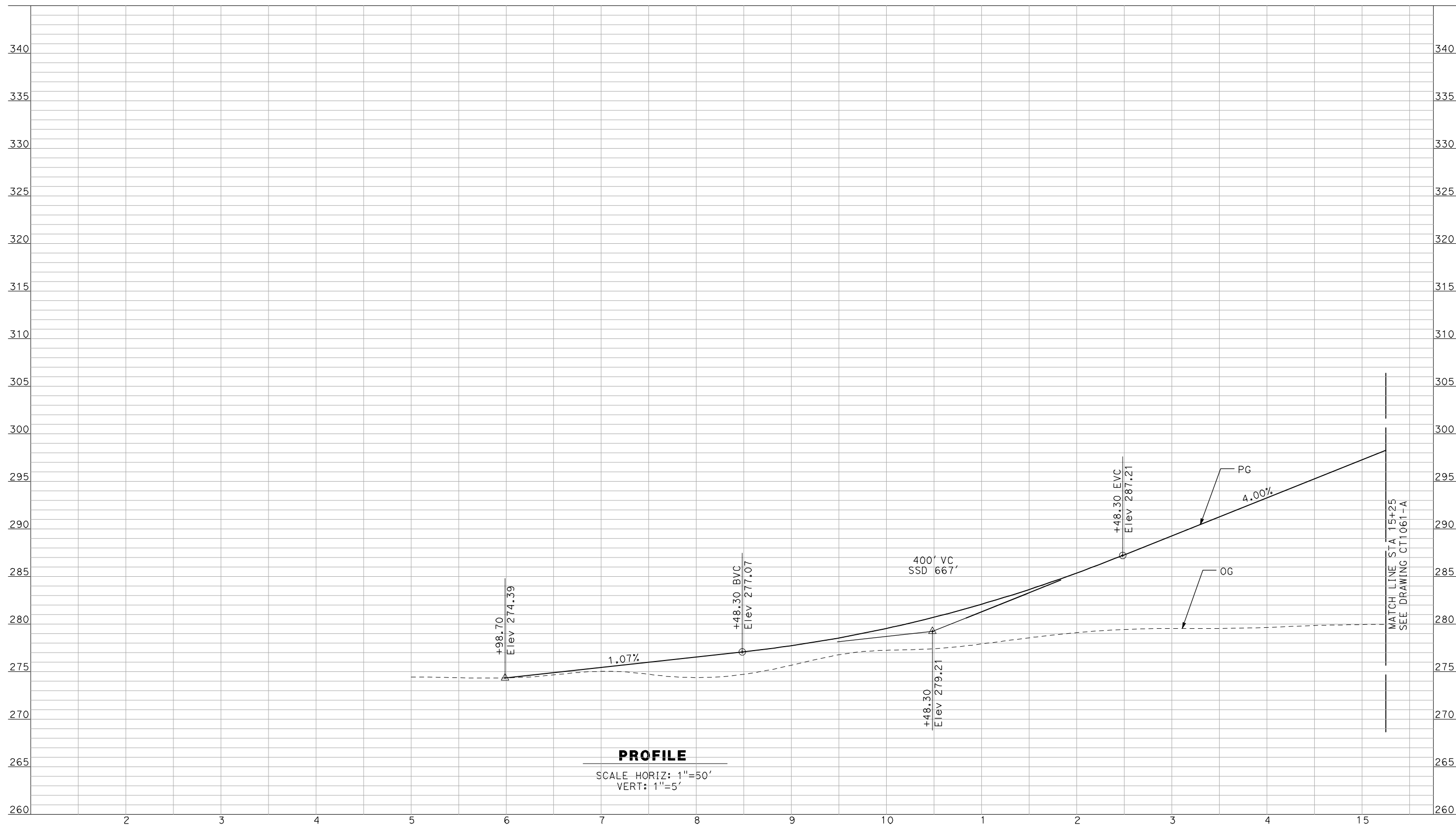


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - ARBOLEDA DR
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT1059-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

**RECORD SET
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SUBMITTAL**

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CONSTRUCTION**

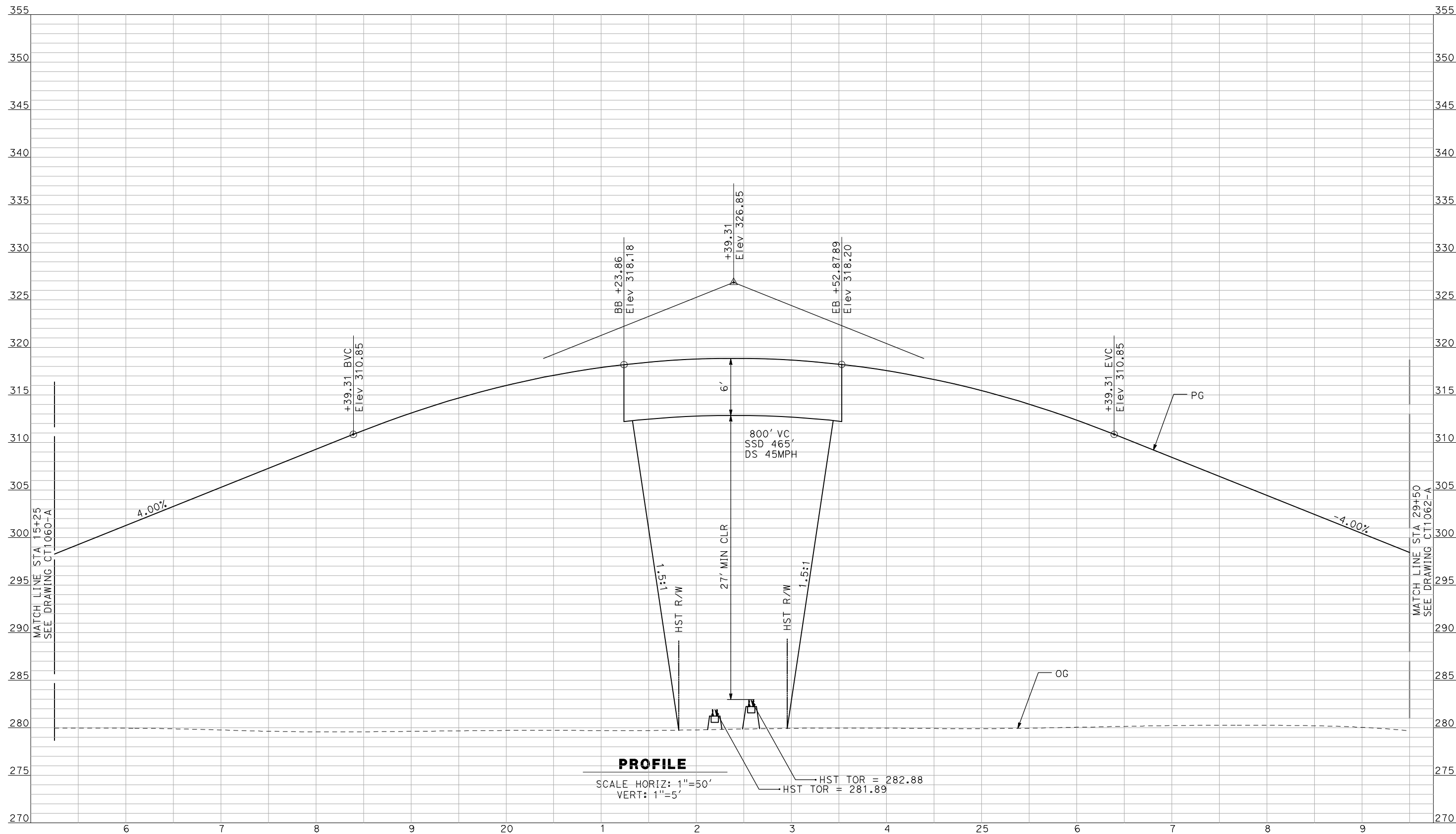


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE CONNECTION - AVE 21 WYE
GRADE SEPARATION - AVENUE 22
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1060-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
 VERT: 1"=5'

HST TOR = 282.88
 HST TOR = 281.89

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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

RECORD SET
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SUBMITTAL

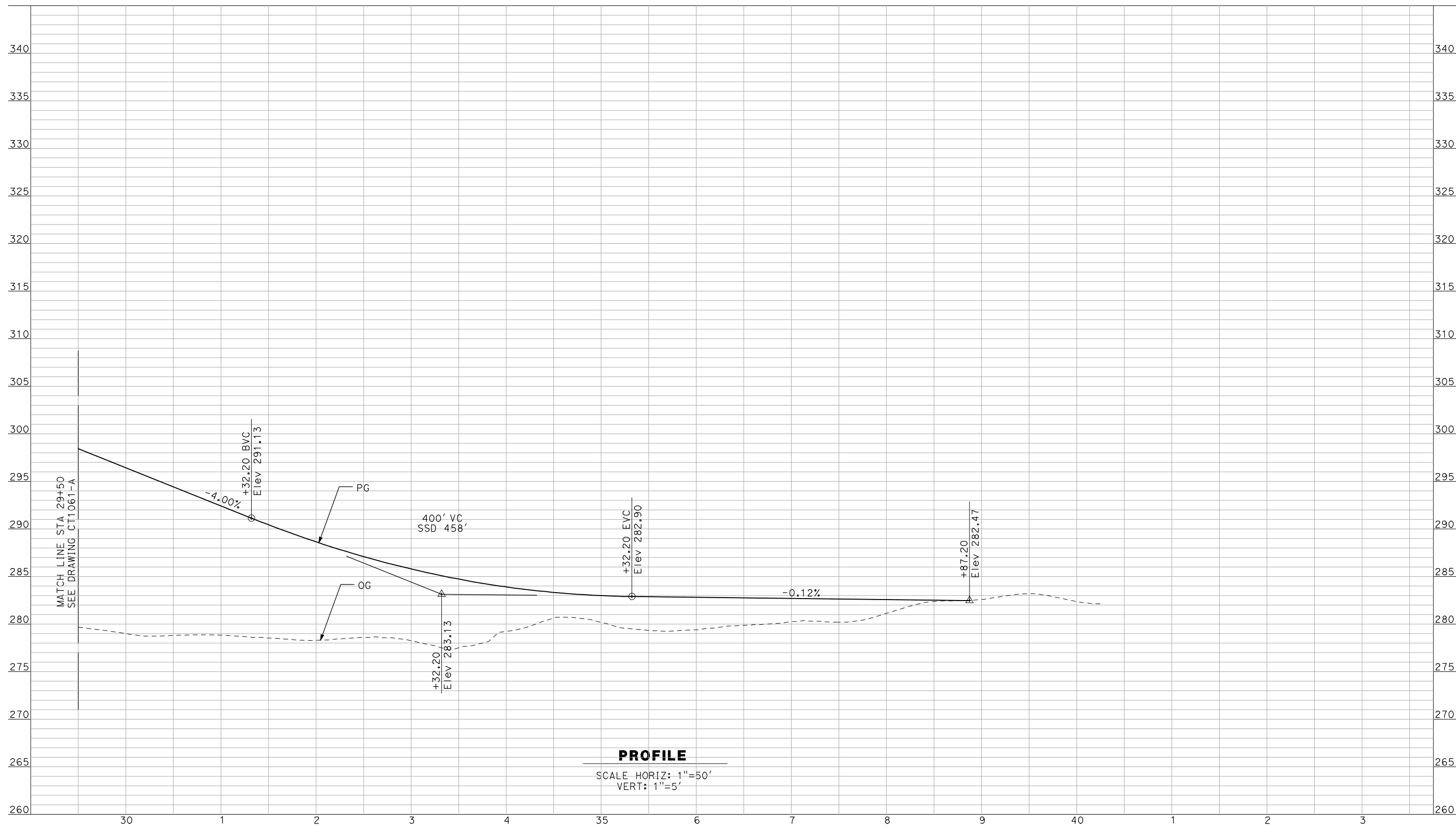
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF WYE CONNECTION - AVE 21 WYE
 GRADE SEPARATION - AVENUE 22
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1061-A
 SCALE
AS SHOWN
 SHEET NO.
OF

4/29/2011 2:05:36 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 1A - Ave 21 Wye Grade Separation\Profile\MF-CT-1062-A.DGN



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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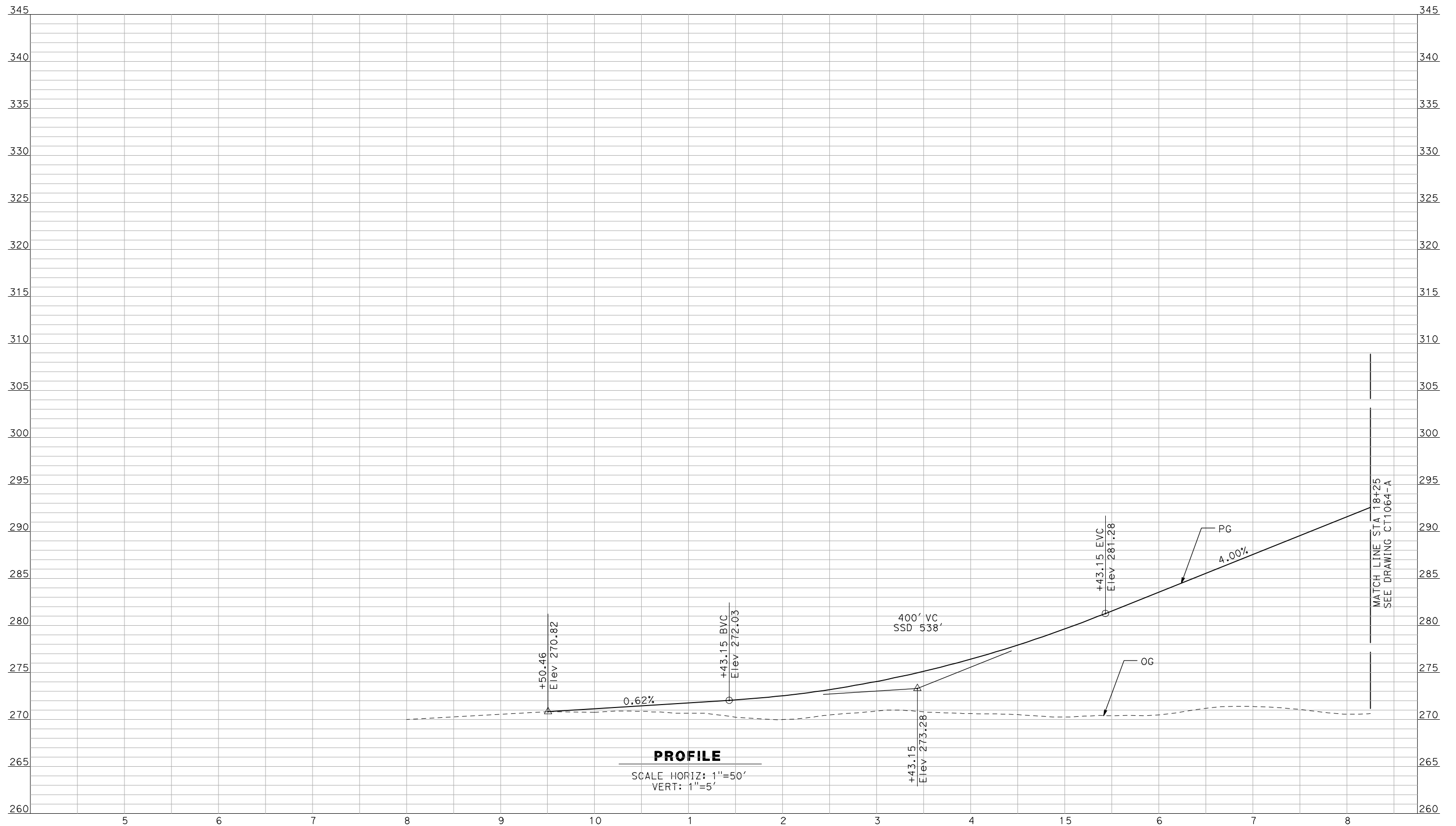


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE CONNECTION - AVE 21 WYE
GRADE SEPARATION - AVENUE 22
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1062-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**

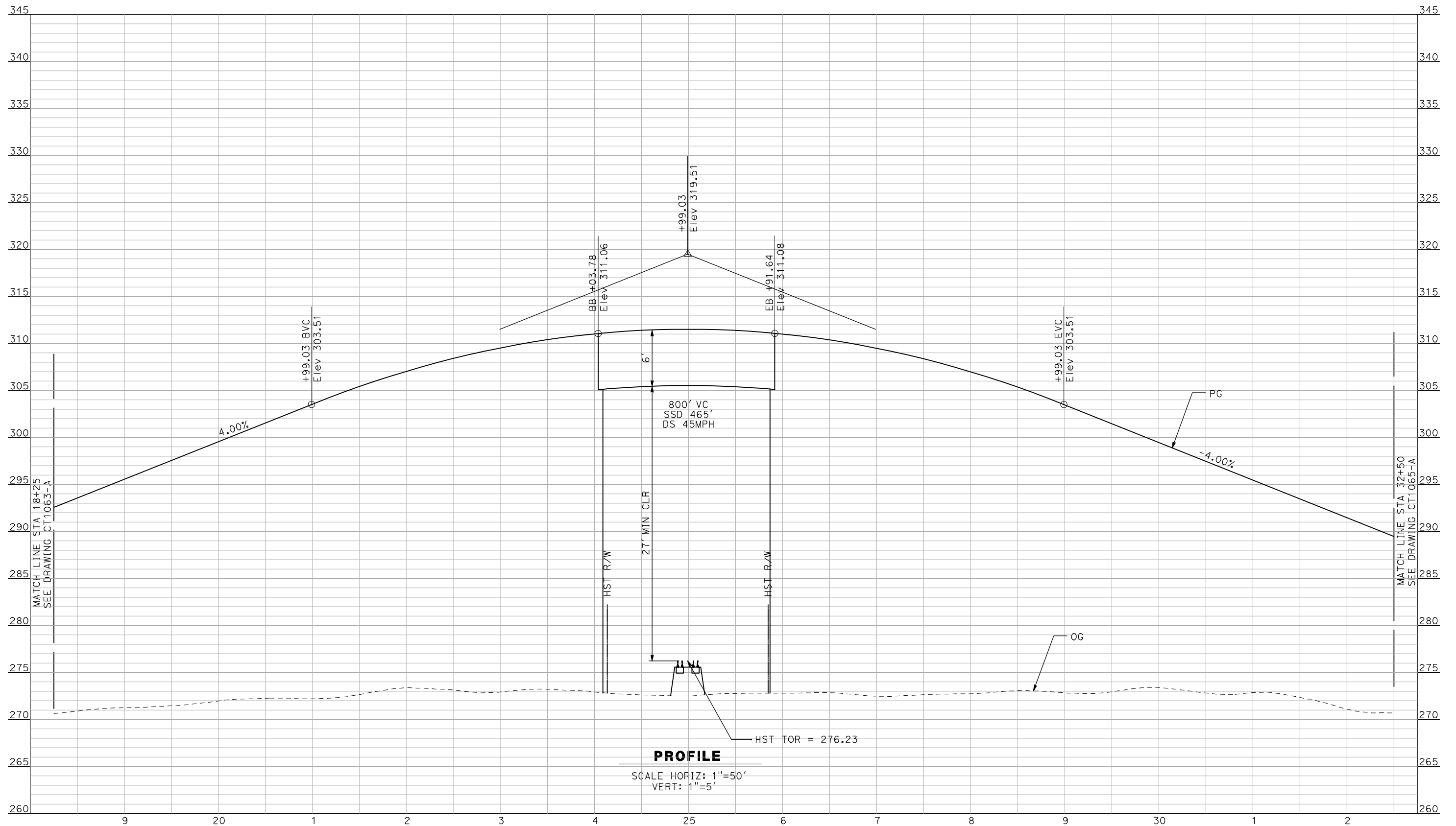


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 20
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1063-A
SCALE
AS SHOWN
SHEET NO.
OF

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

RECORD SET
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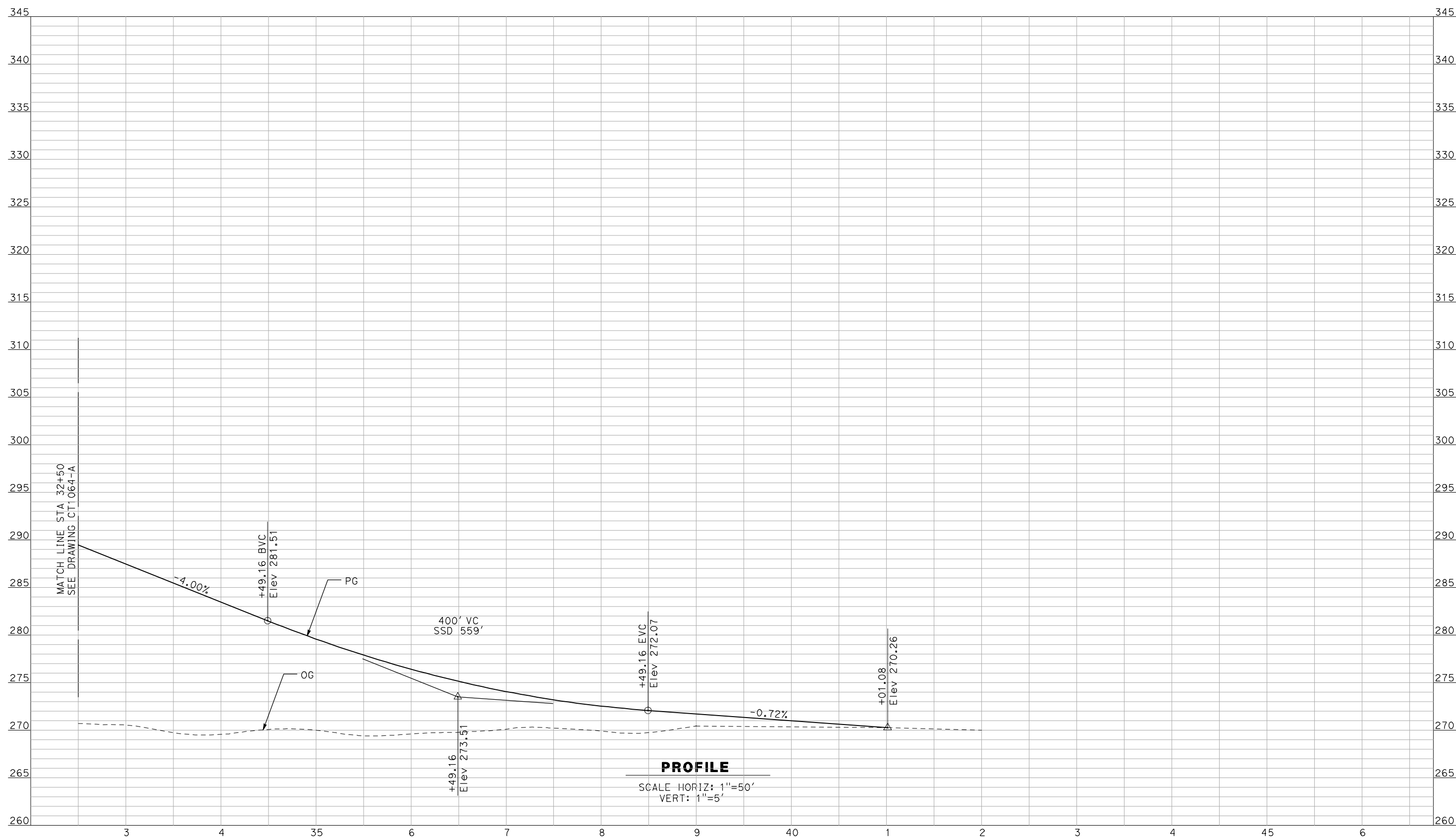
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 20
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1064-A
 SCALE
AS SHOWN
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OF

4/29/2011 2:05:46 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 1A - Ave 21 Wye Grade Separation\Profile\MF-CT-1065-A.DGN



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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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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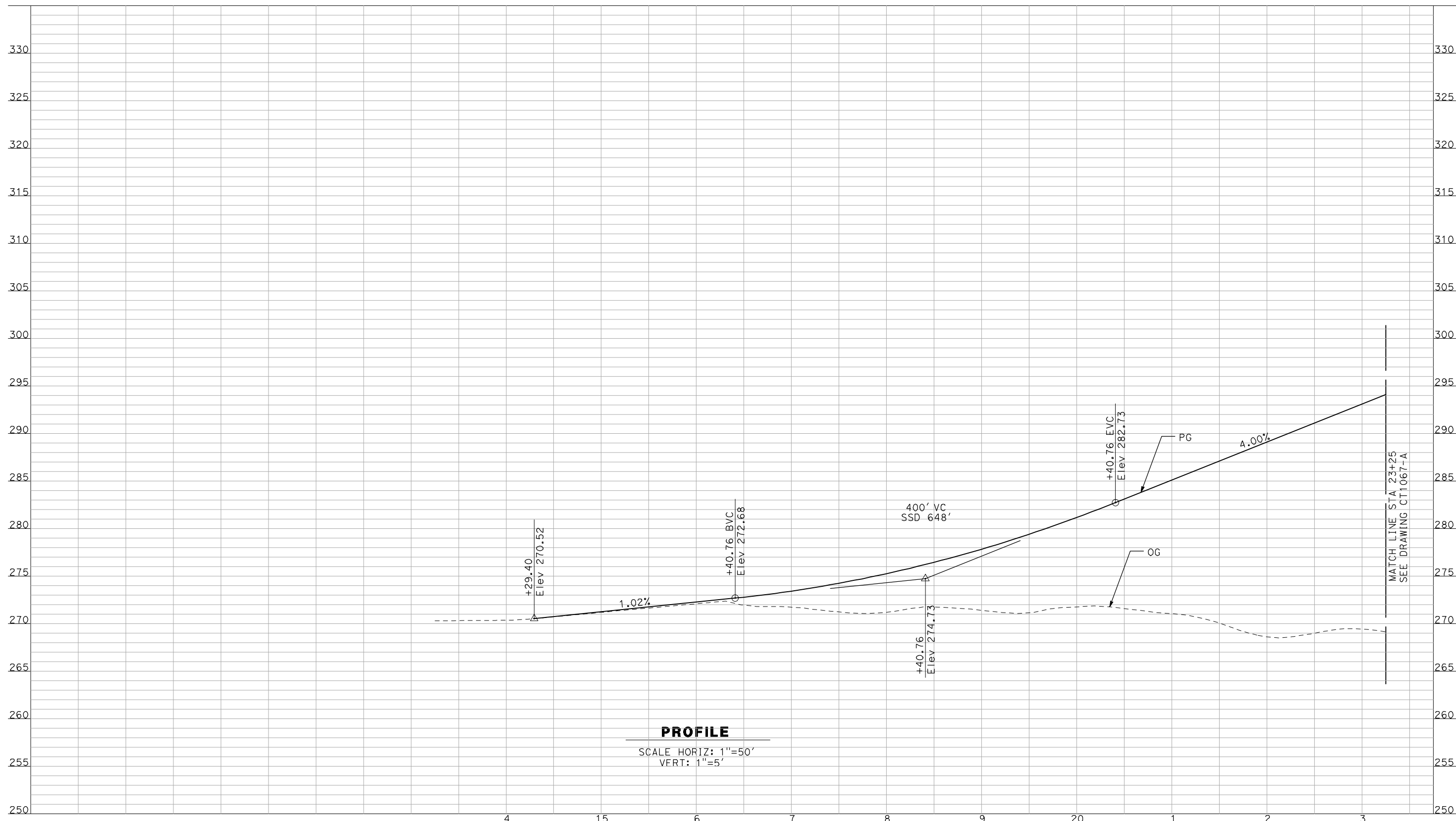


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 20
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1065-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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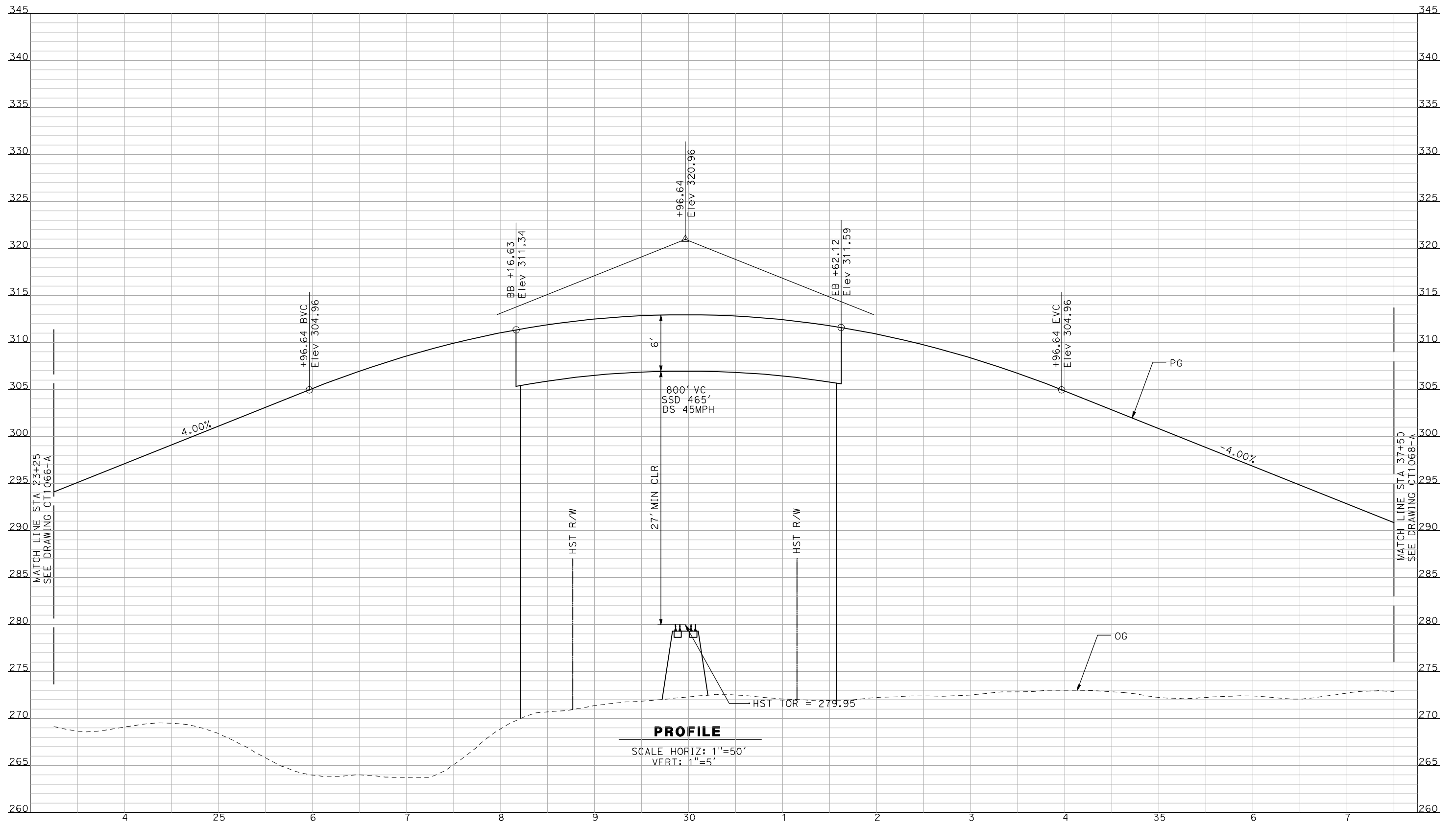


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 20 1/2
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1066-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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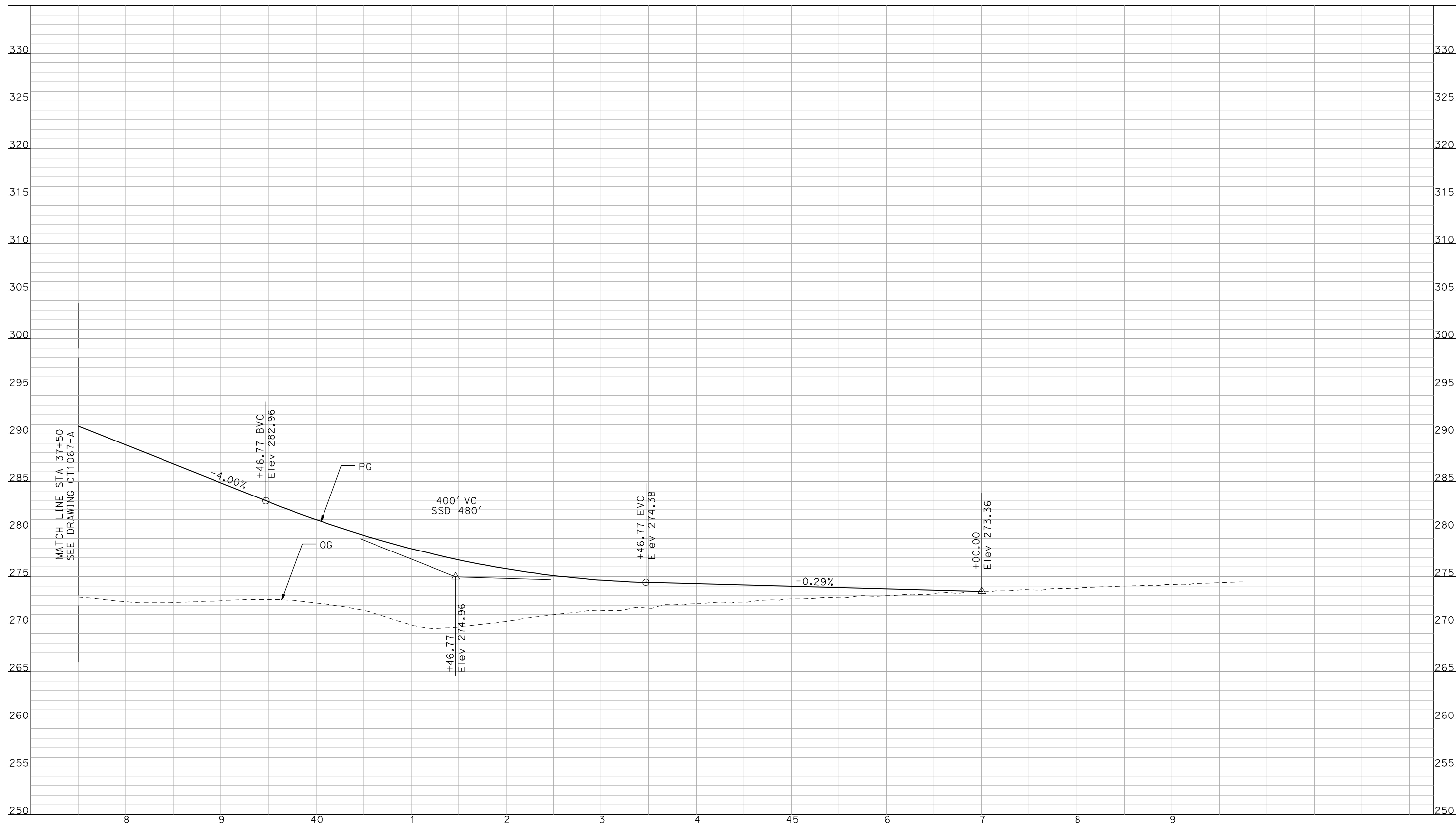
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 20 1/2
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1067-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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A. BOONE
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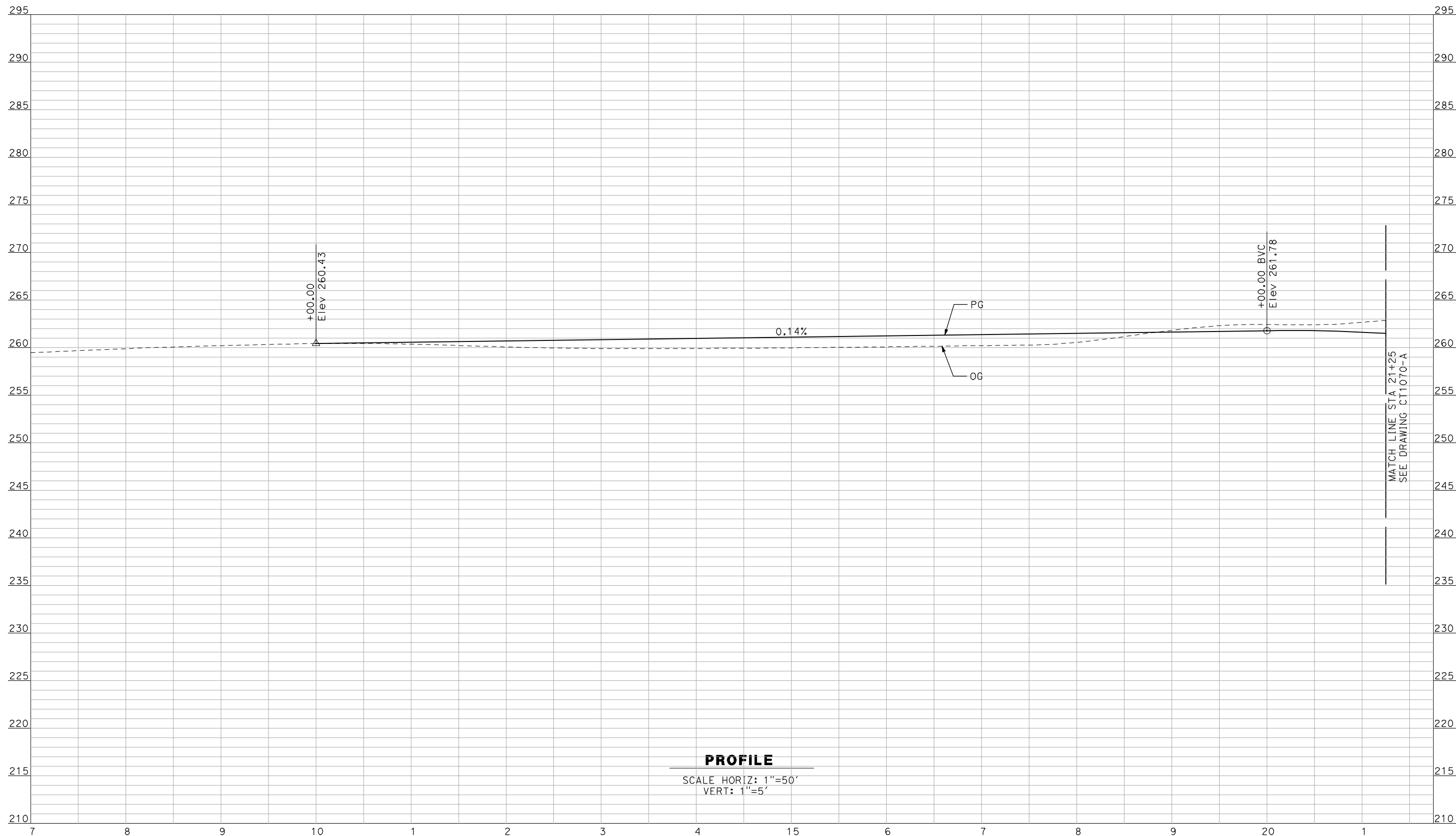


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 20 1/2
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
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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SUBMITTAL**

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CONSTRUCTION**

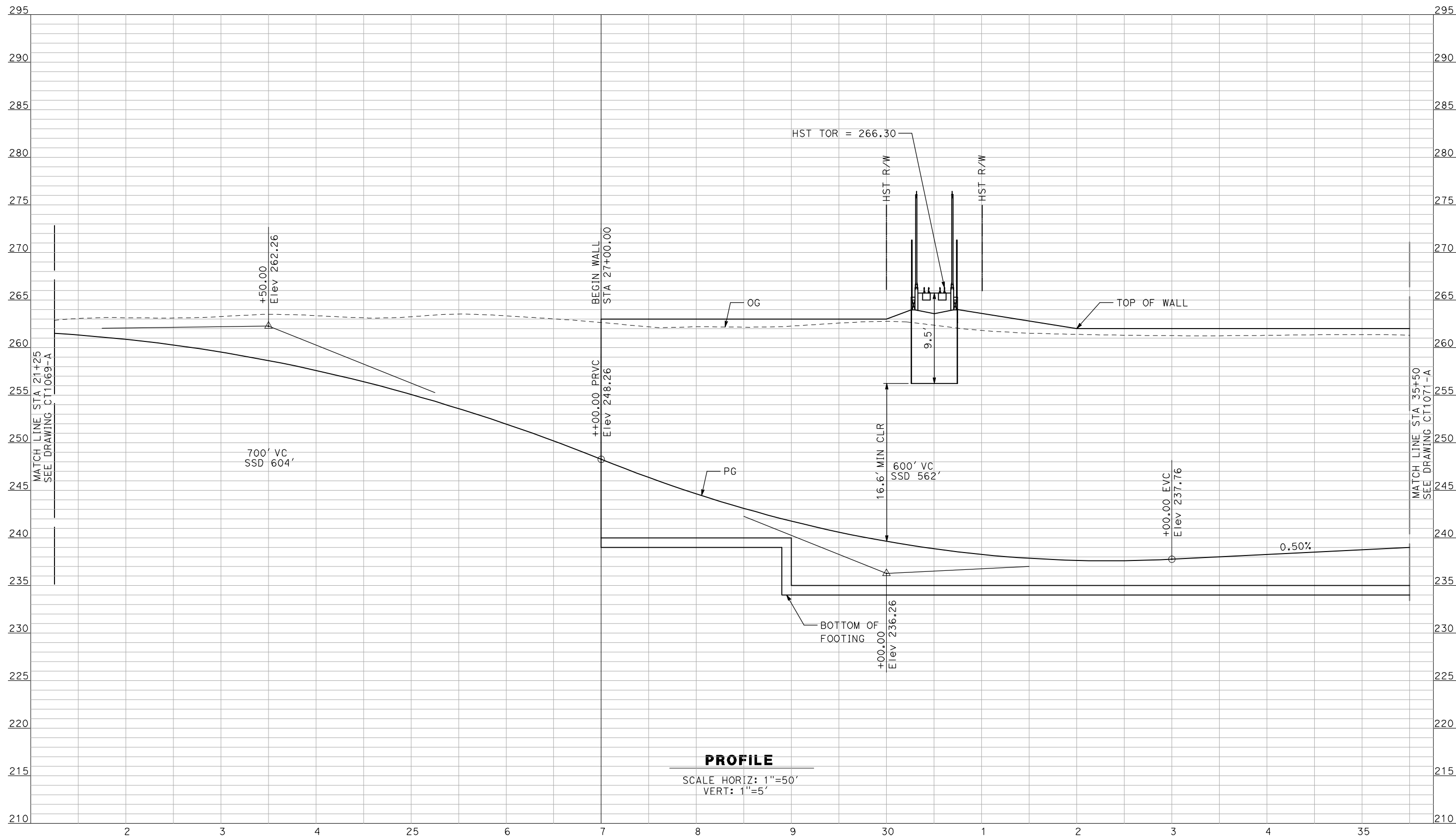


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - ROAD 22
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1069-A
SCALE
AS SHOWN
SHEET NO.
OF

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 A. BOONE
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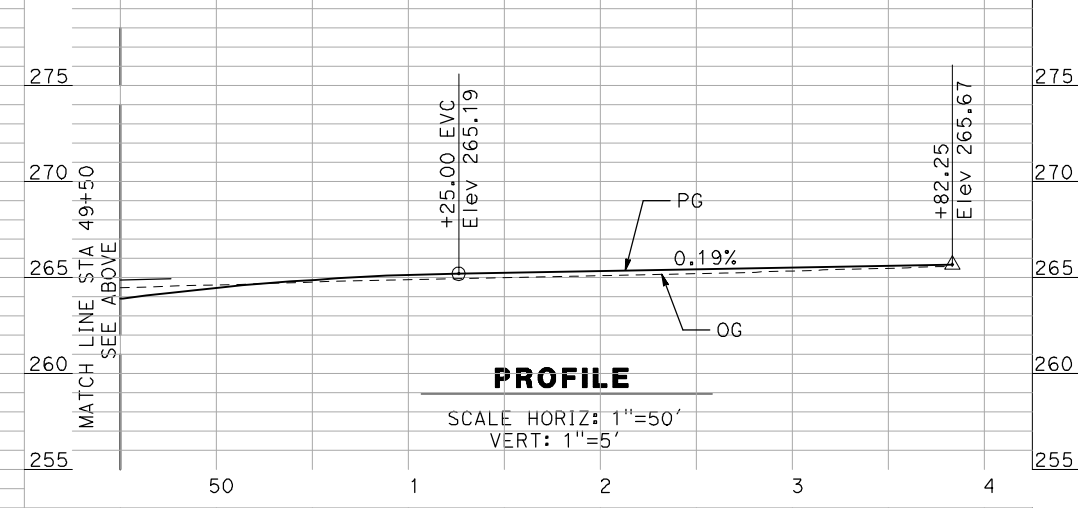
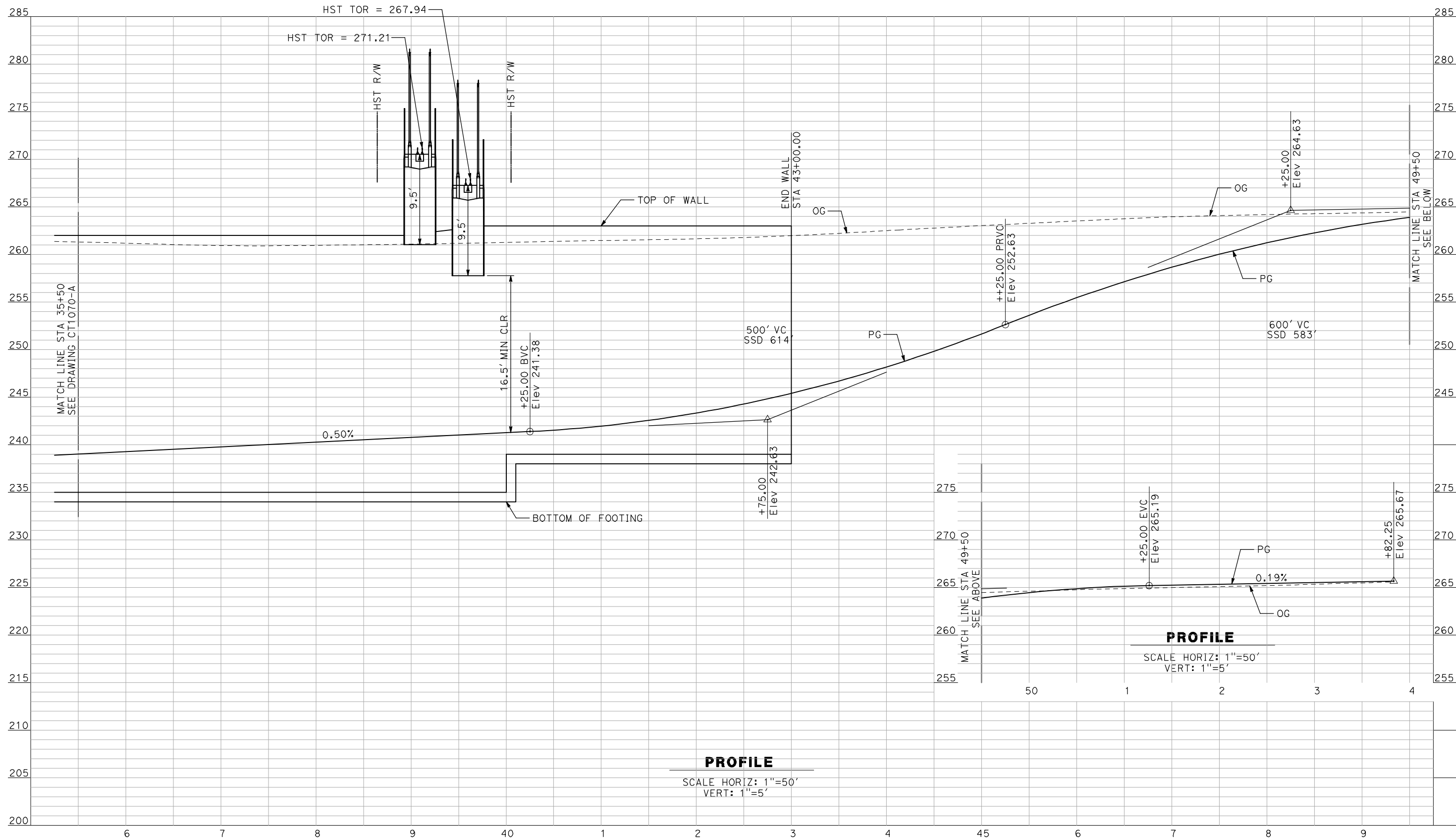
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 UNDERPASS - ROAD 22
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1070-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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DRAWN BY
F. DEMARCO
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
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SUBMITTAL

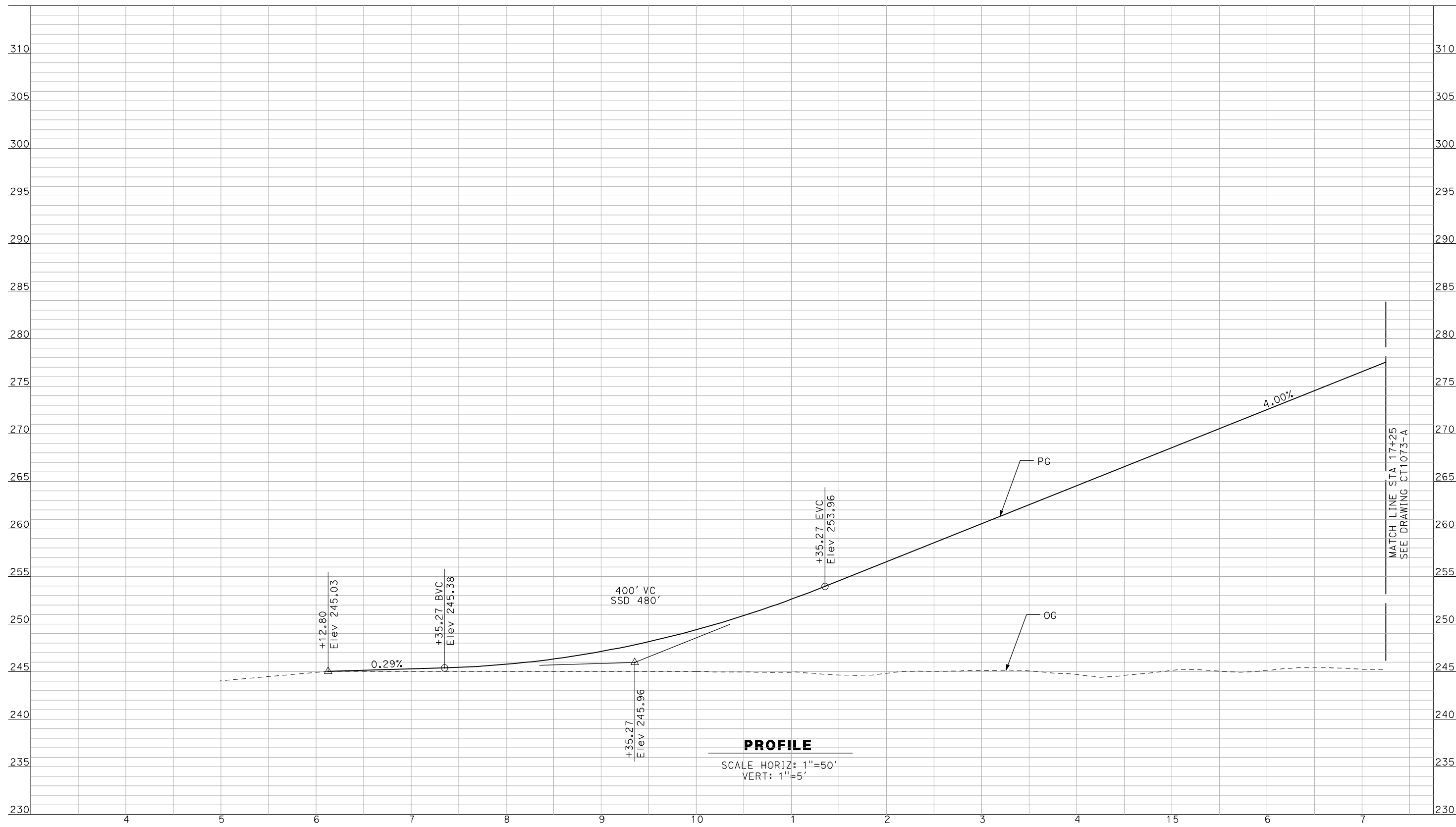
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
UNDERPASS - ROAD 22
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1071-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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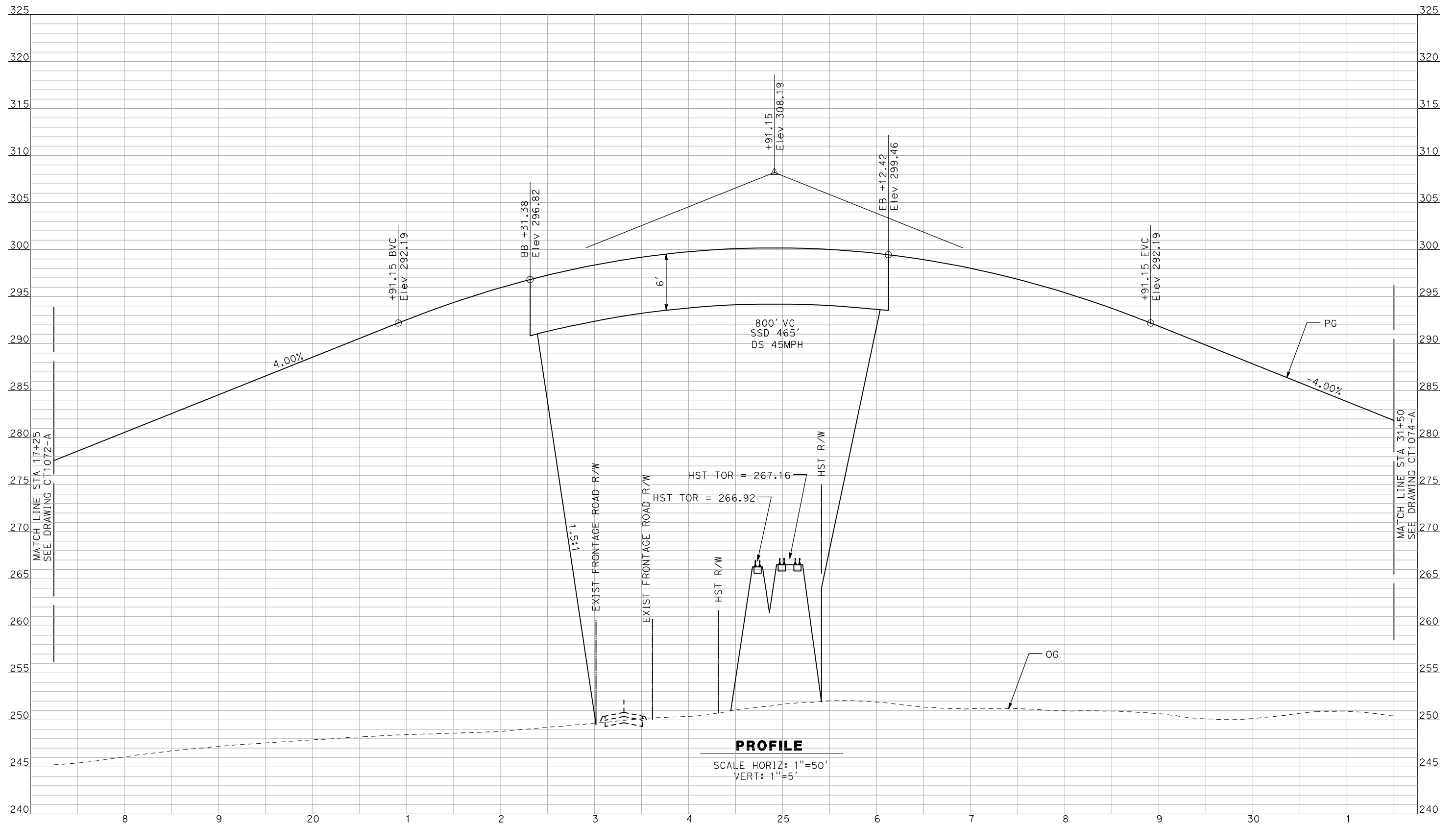
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 20
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1072-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

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

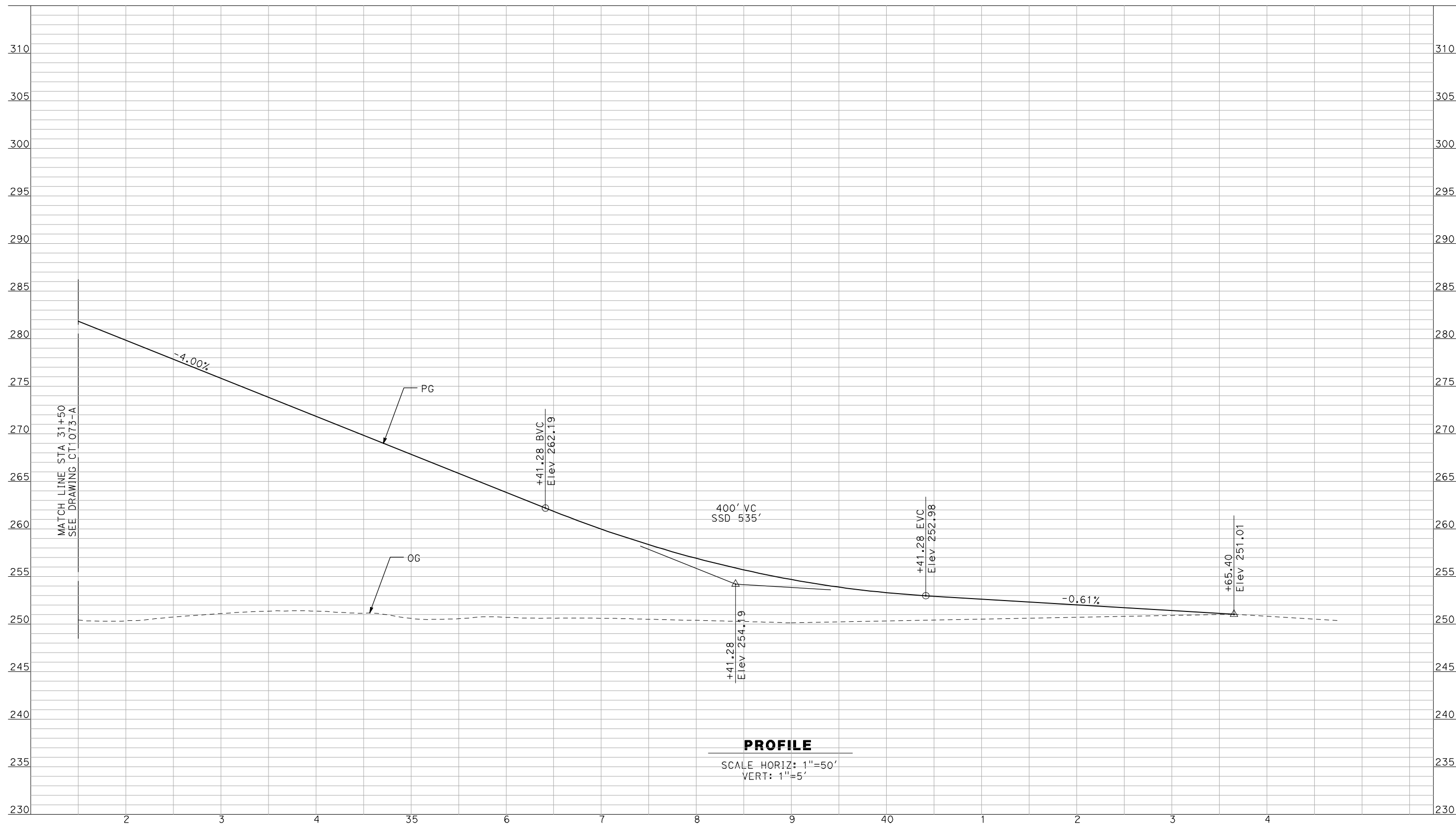
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 20
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1073-A
 SCALE
 AS SHOWN
 SHEET NO.
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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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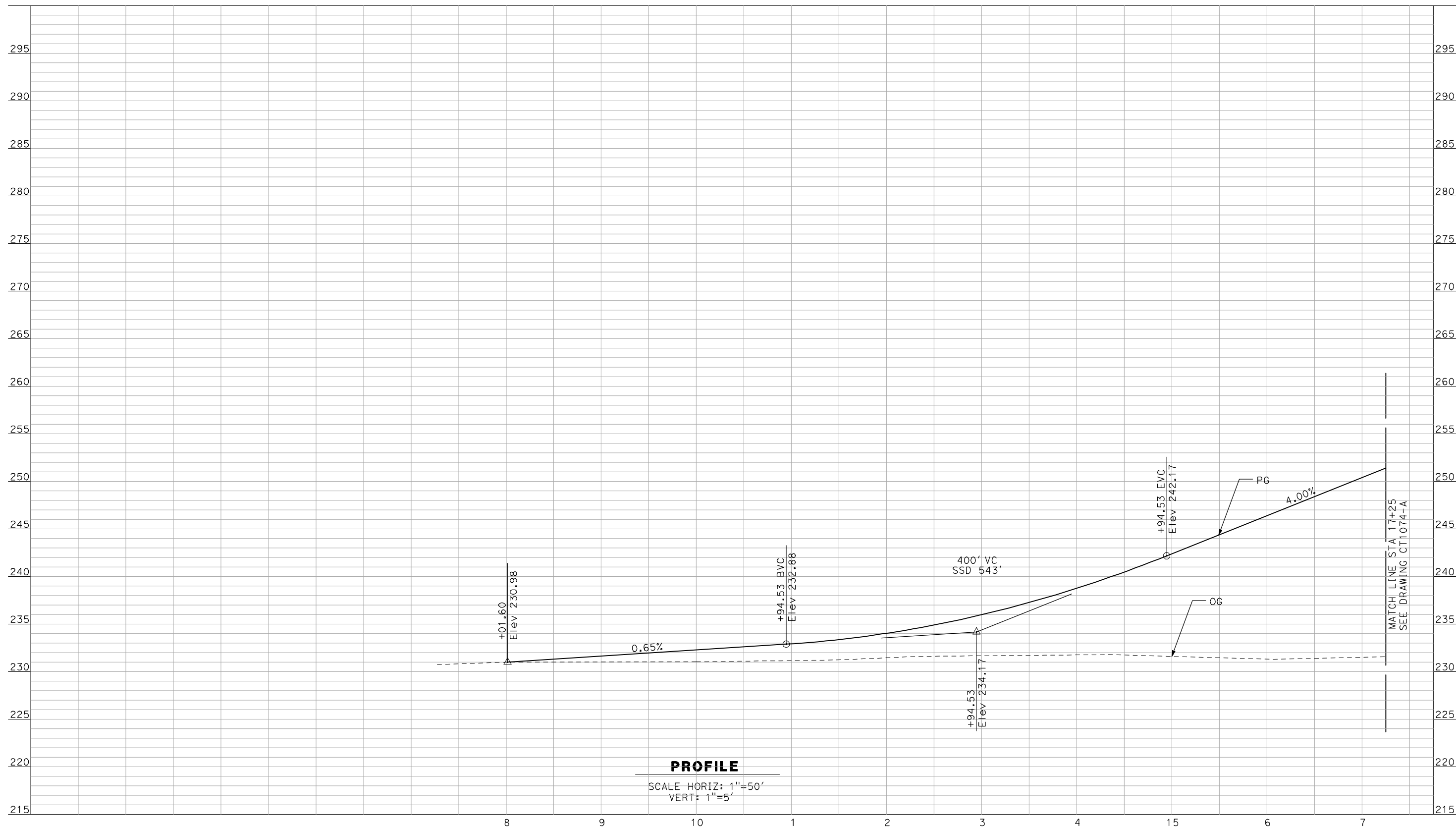


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 20
PROFILE
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1074-A
SCALE
AS SHOWN
SHEET NO.
OF

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J. ZANDIAN
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A. BOONE
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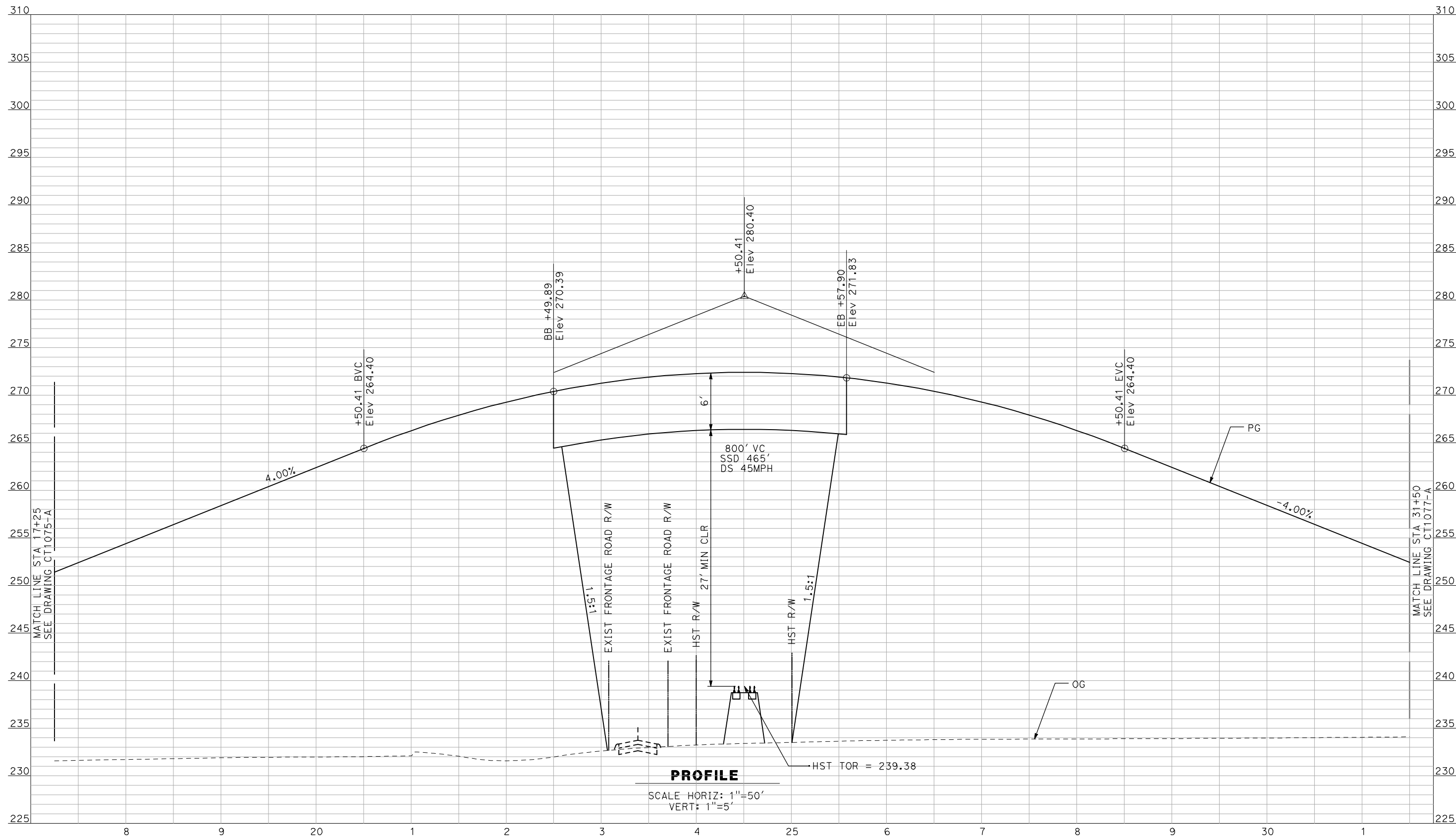
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 18 1/2
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1075-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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DESIGNED BY
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J. ZANDIAN
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A. BOONE
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AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

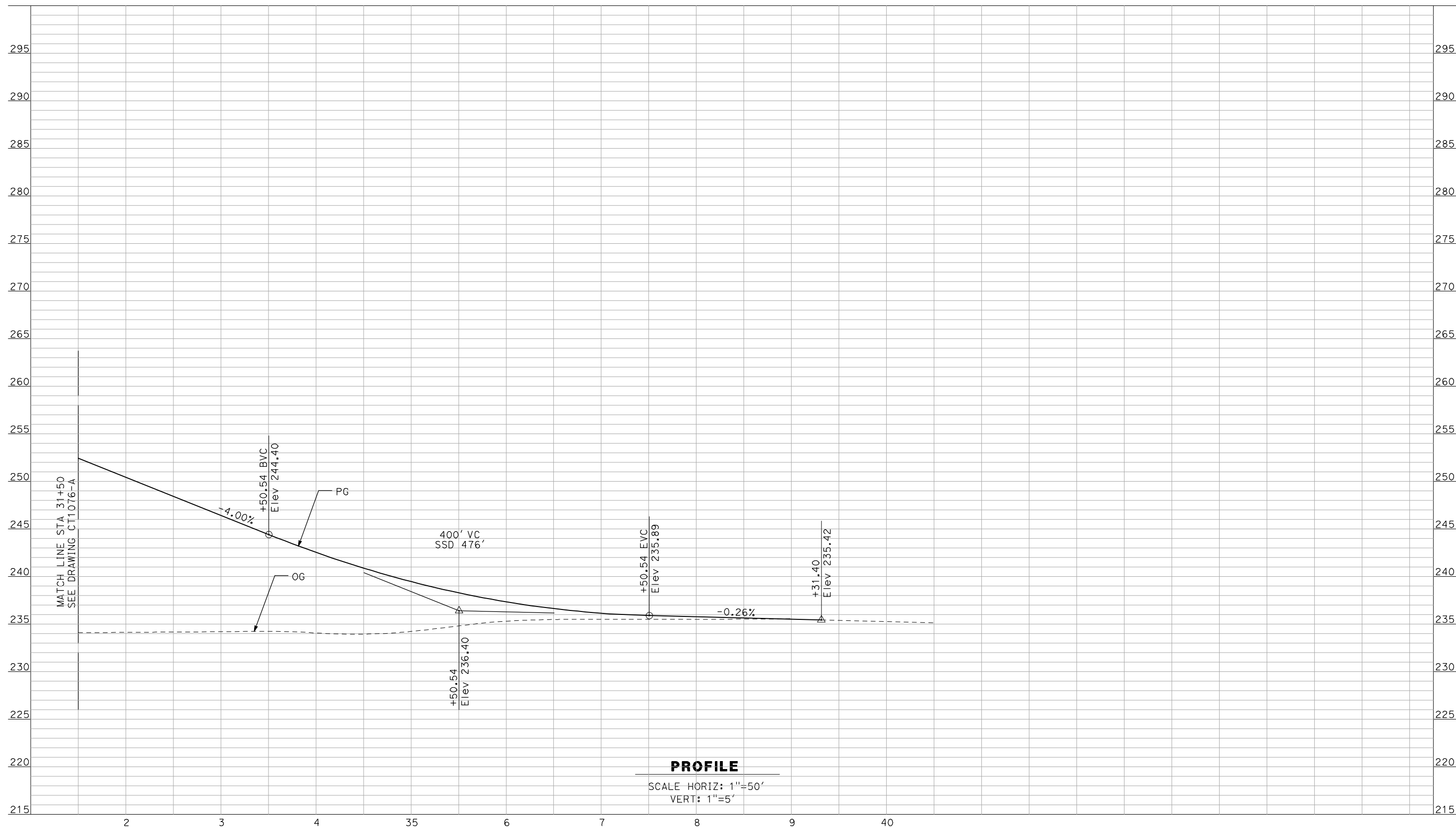
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - ROAD 18 1/2
PROFILE
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1076-A
SCALE
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SHEET NO.
OF

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J. ZANDIAN
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A. BOONE
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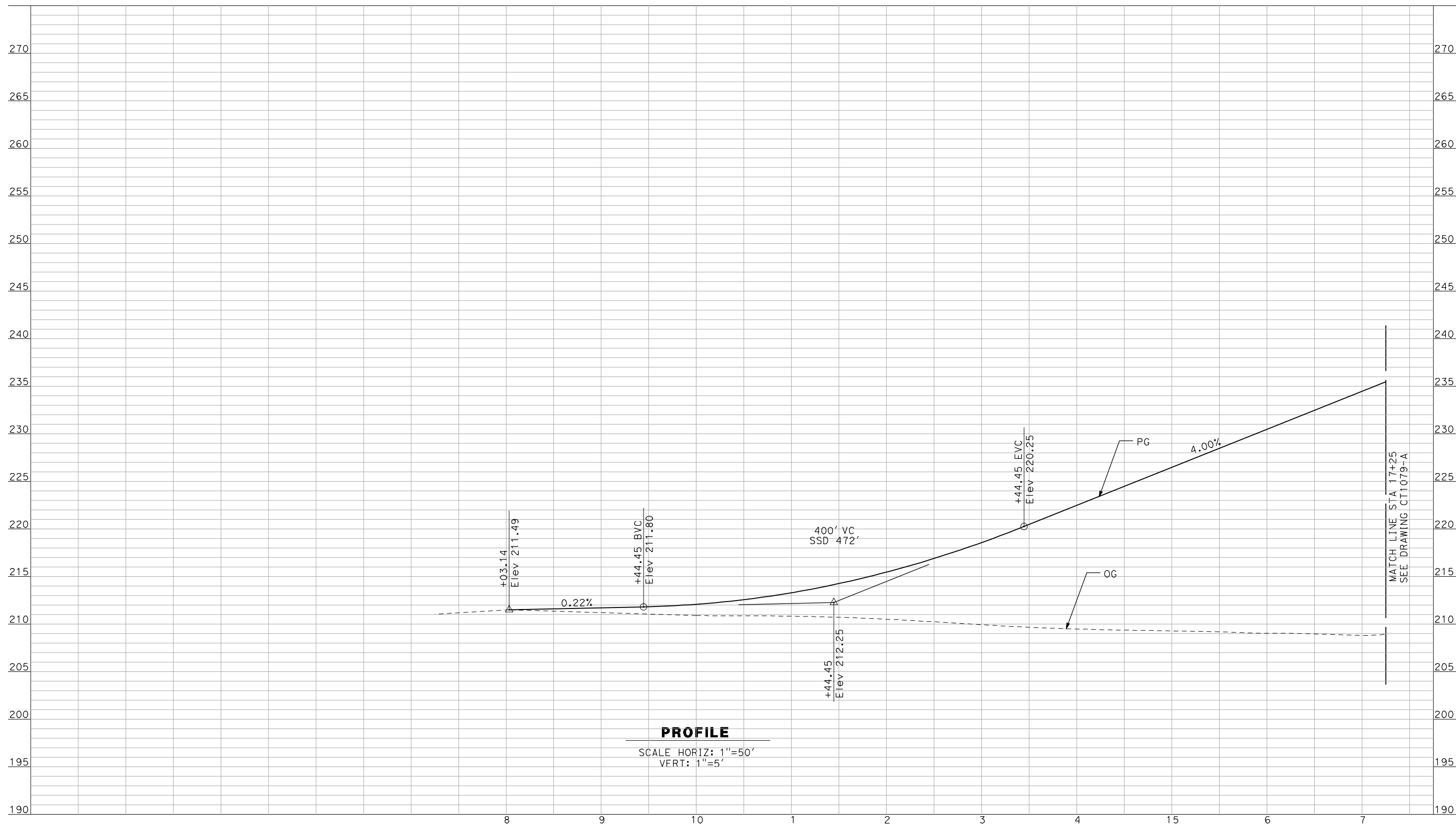


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 18 1/2
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
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CT1077-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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A. BOONE
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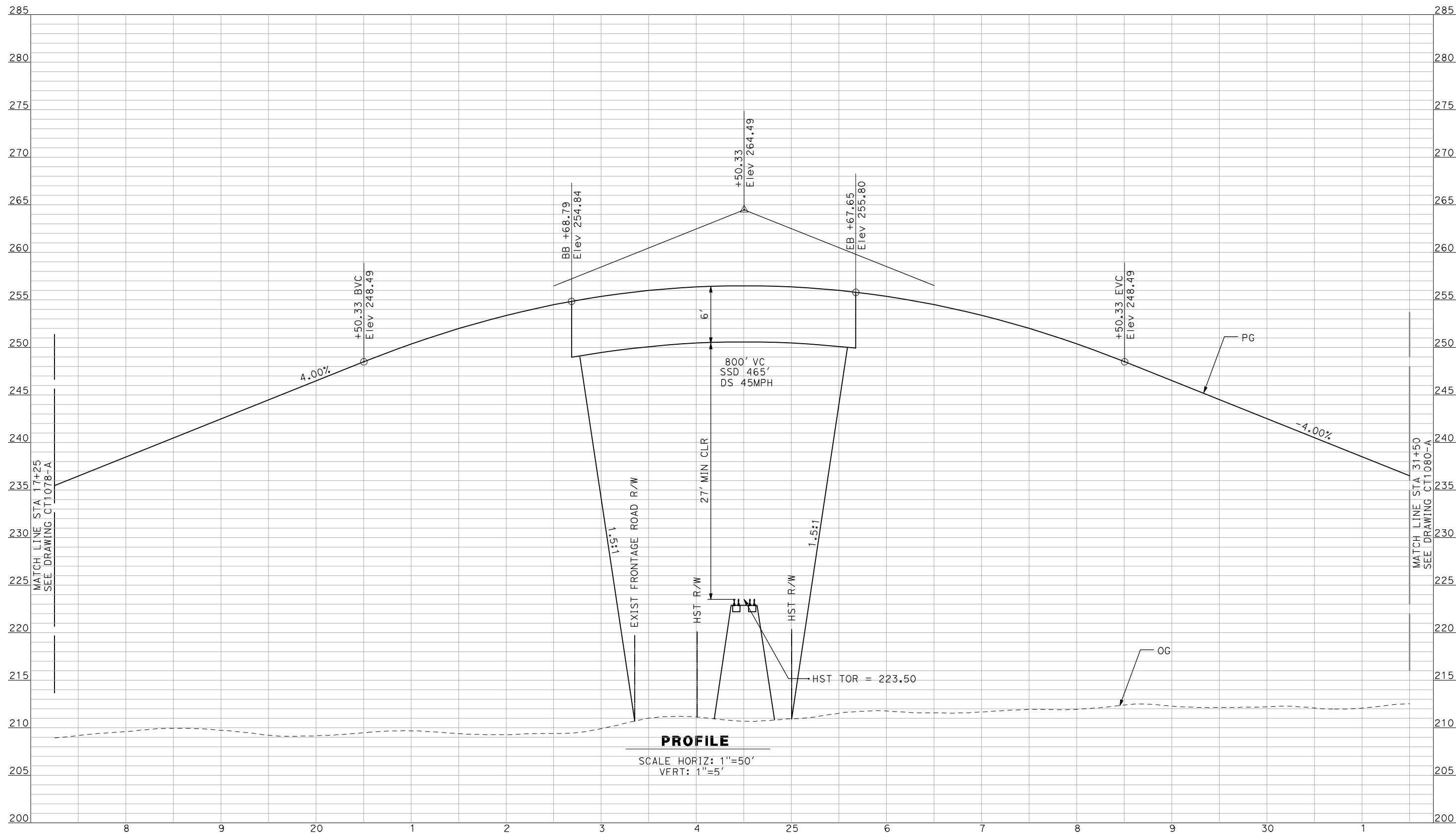
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 16
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
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CT1078-A
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 SHEET NO.
OF

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J. ZANDIAN
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A. BOONE
 DATE
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RECORD SET
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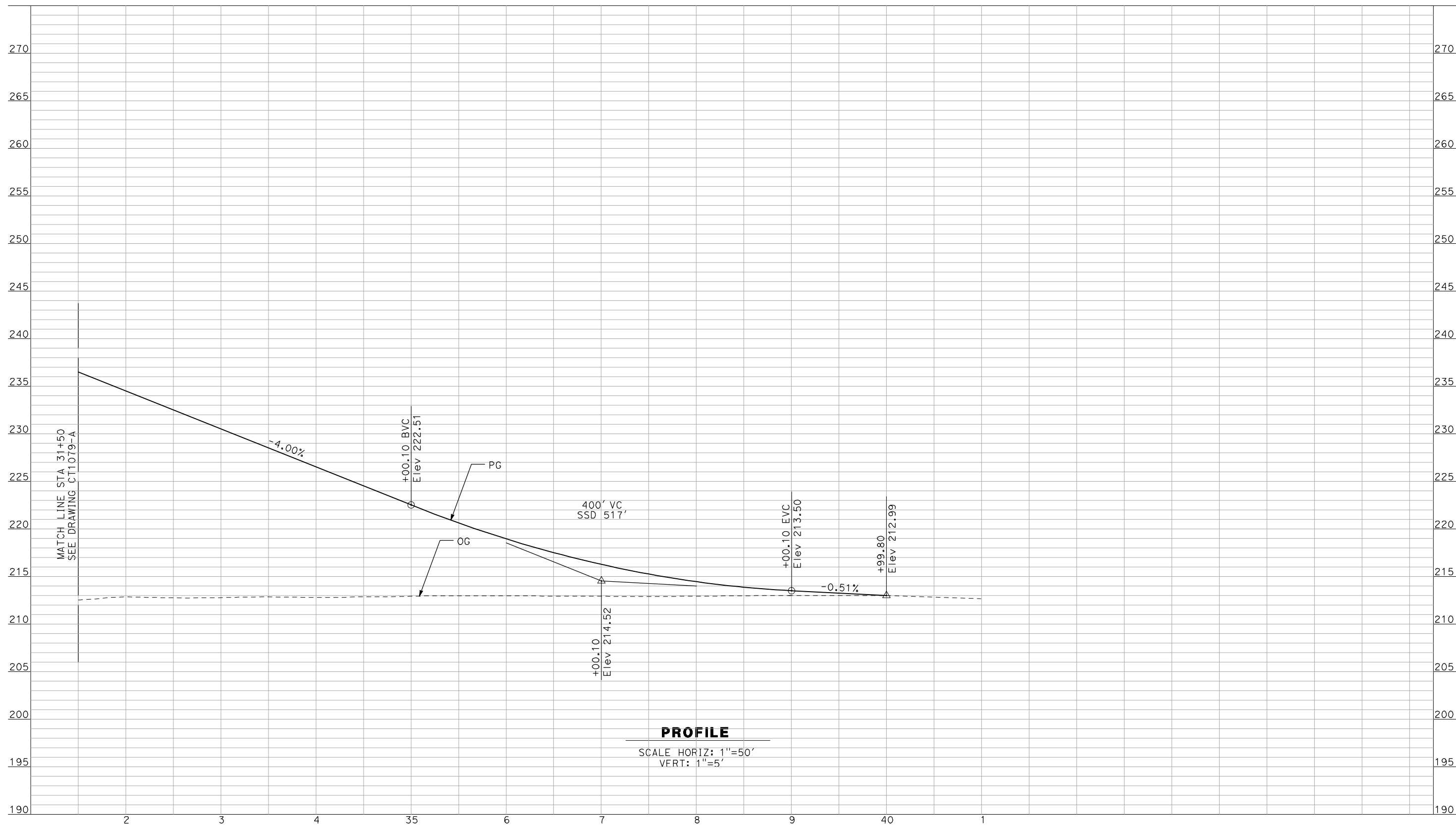
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 16
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1079-A
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 SHEET NO.
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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DESIGNED BY
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A. BOONE
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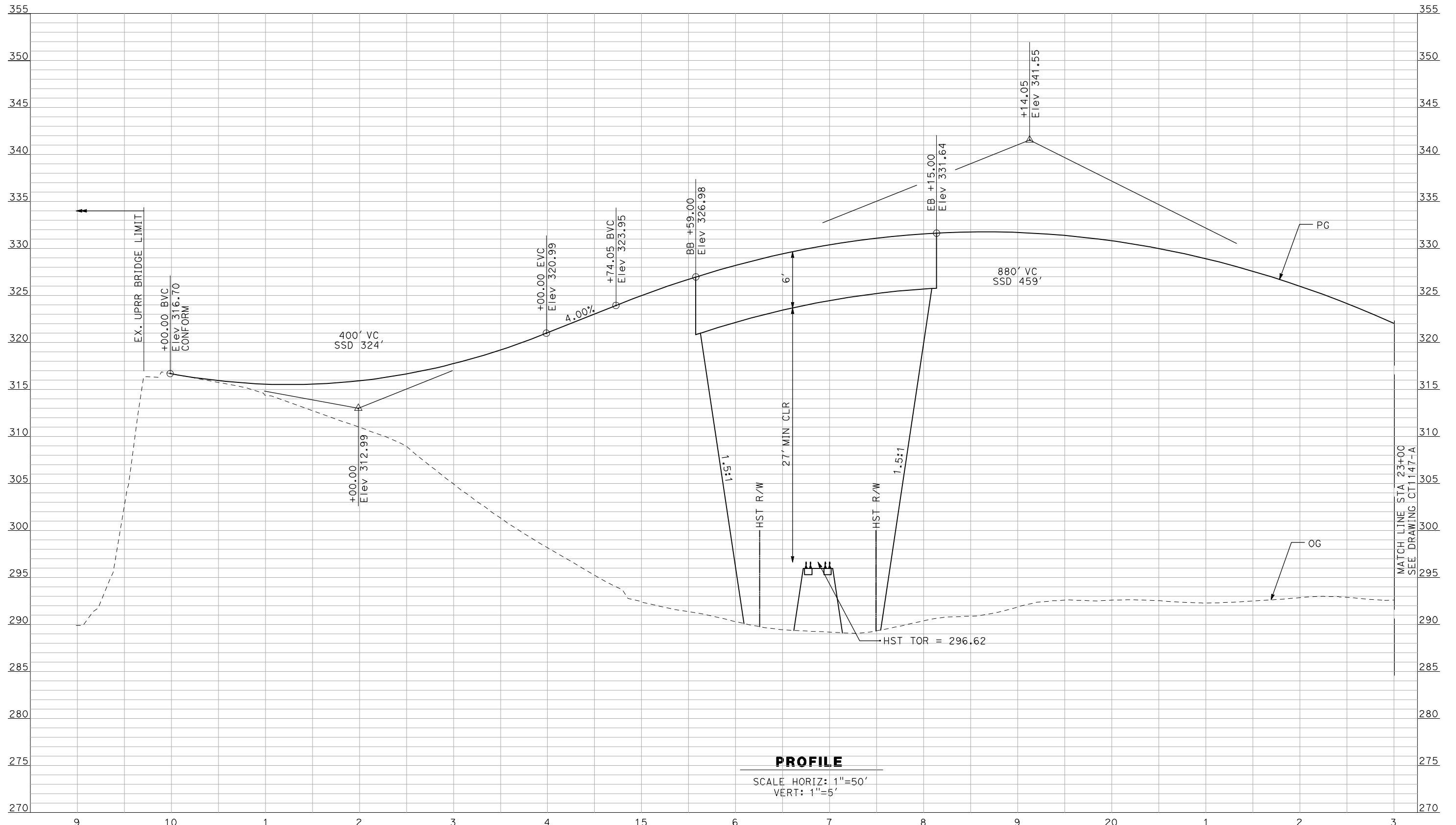
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 GRADE SEPARATION - ROAD 16
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1080-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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J. ZANDIAN
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A. BOONE
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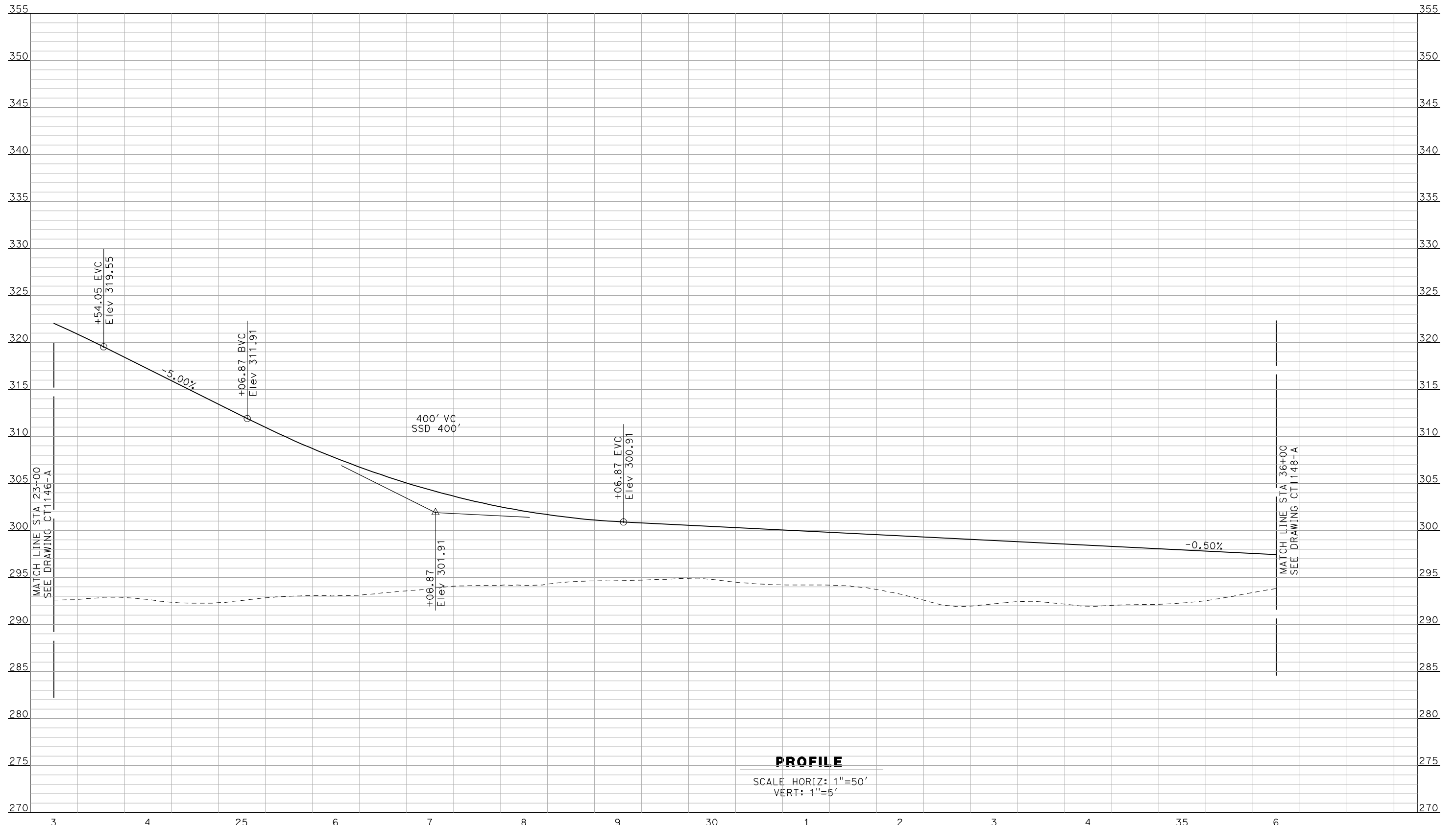
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 7
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1146-A
SCALE
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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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CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011

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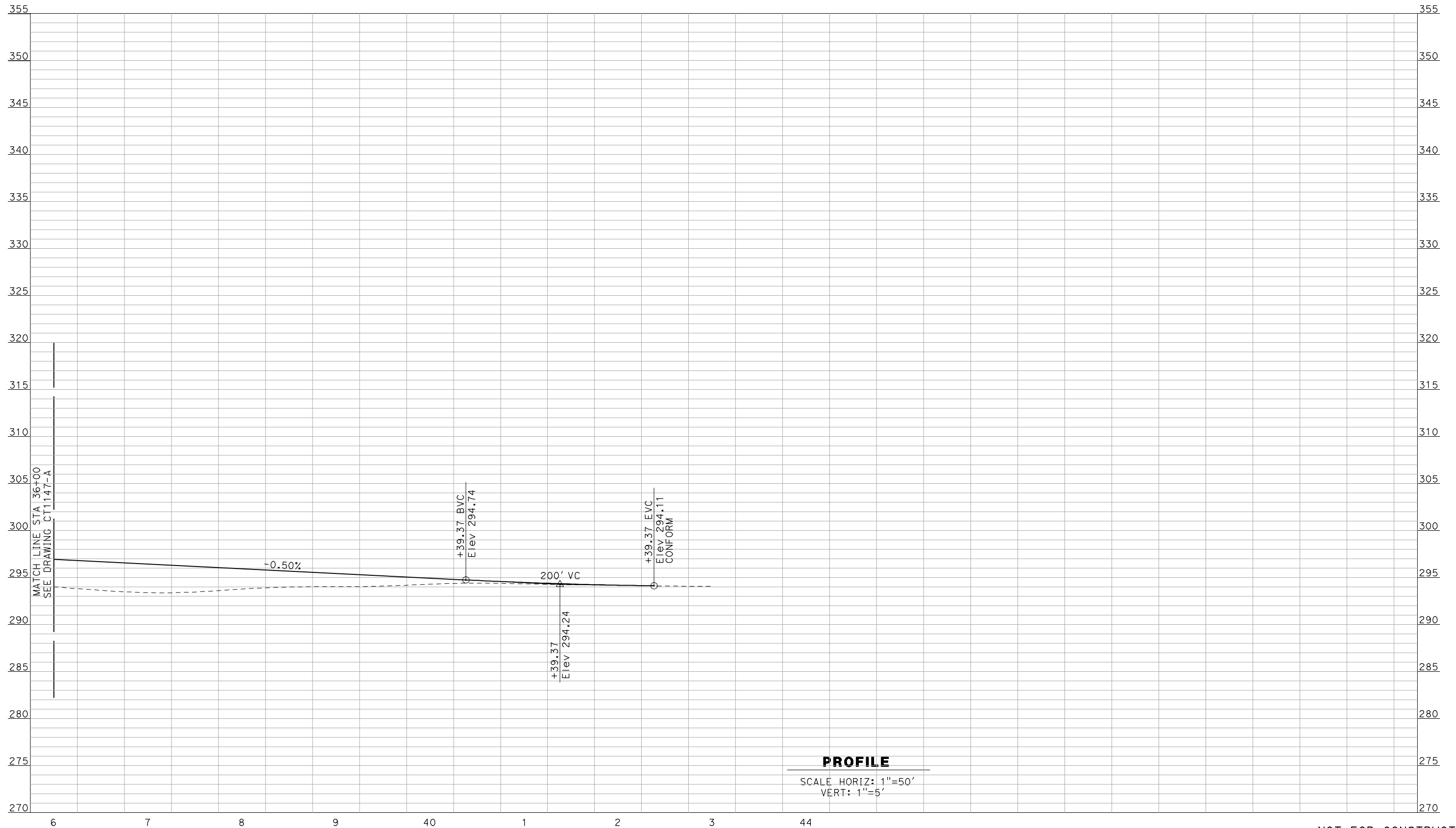


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 21 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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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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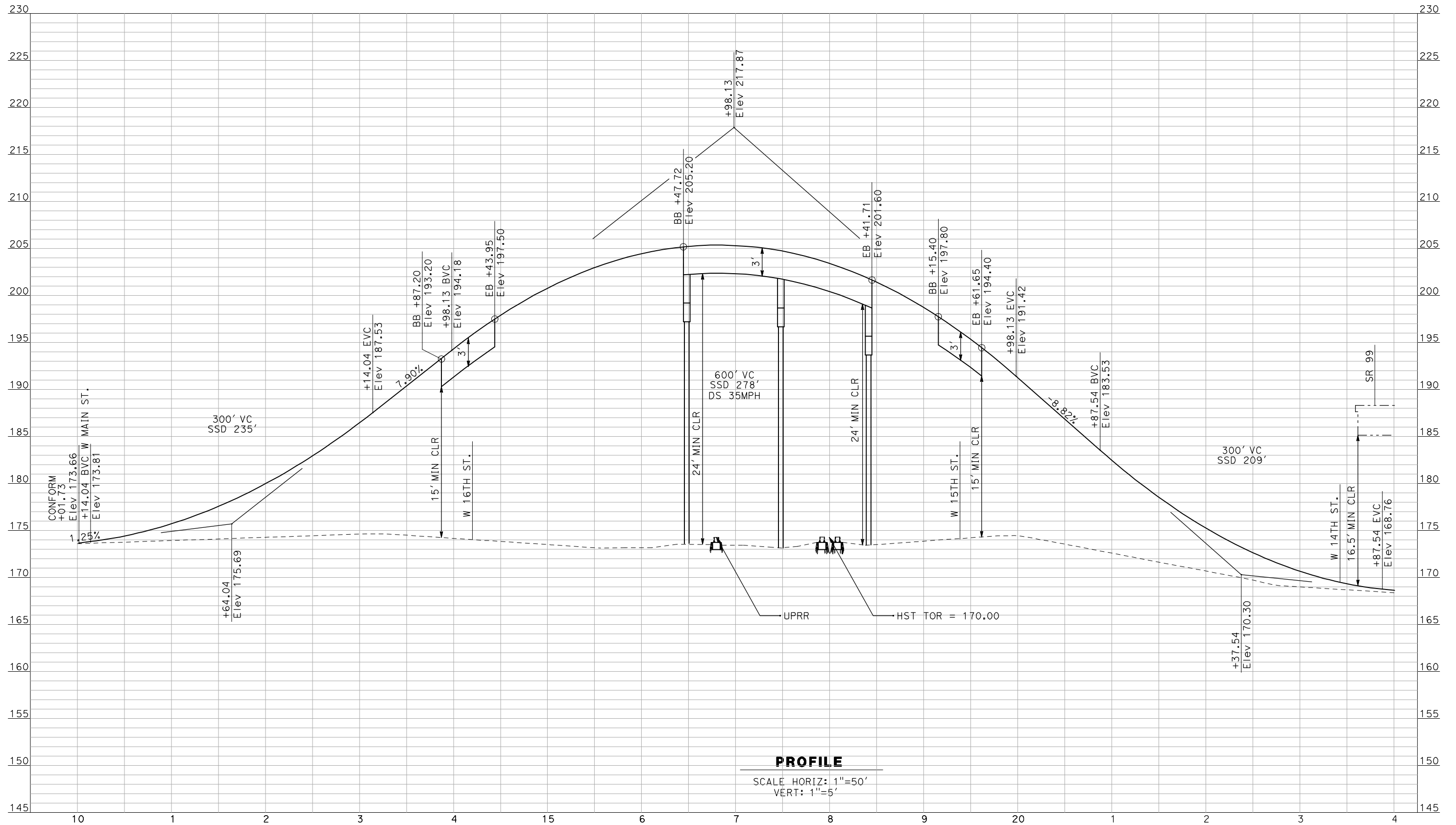


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 21 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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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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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**

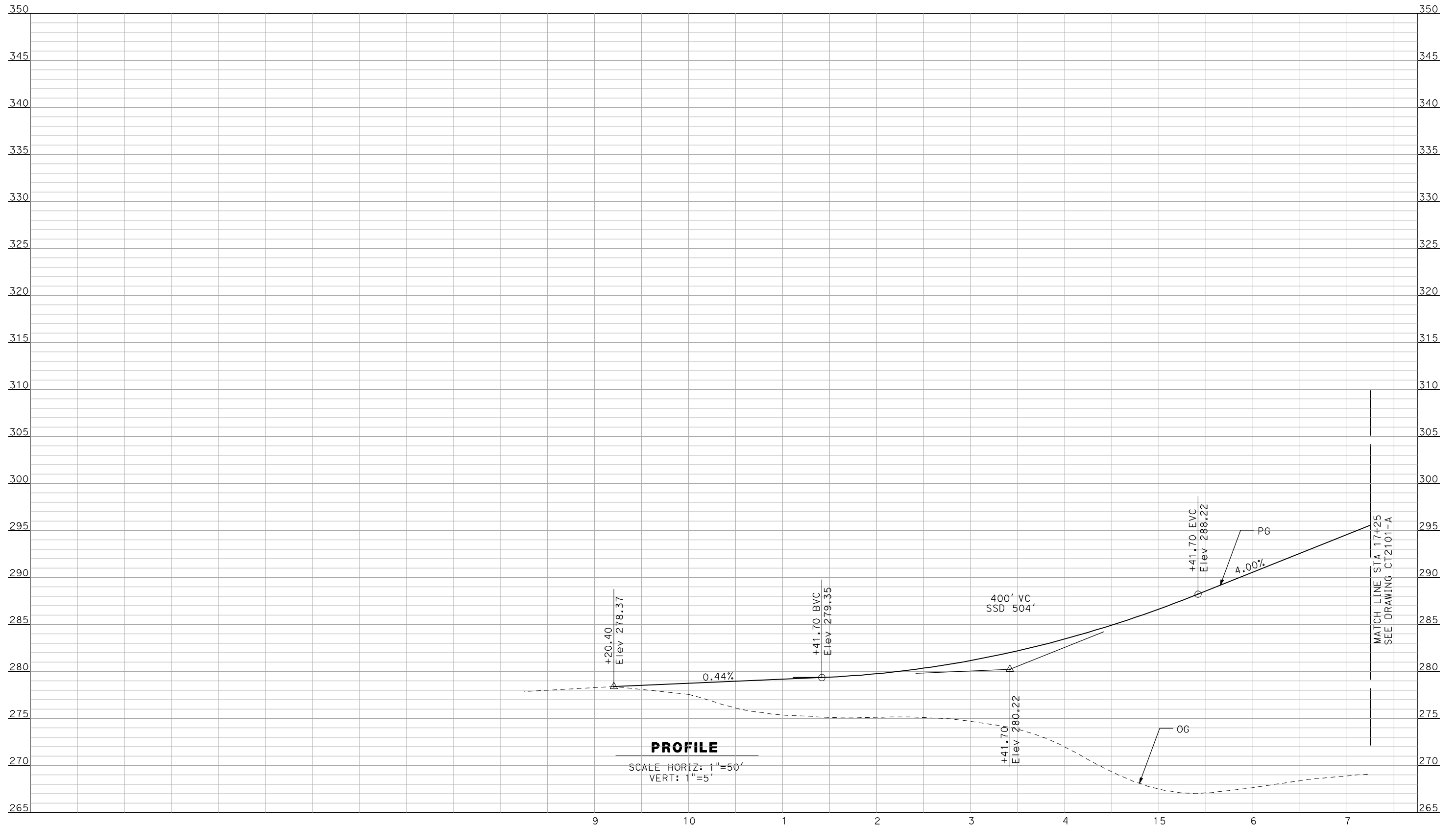


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - G Street
PROFILE
SHEET 1 OF 1

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1149-A
SCALE
AS SHOWN
SHEET NO.
OF ###

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DESIGNED BY
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J. ZANDIAN
 IN CHARGE
A. BOONE
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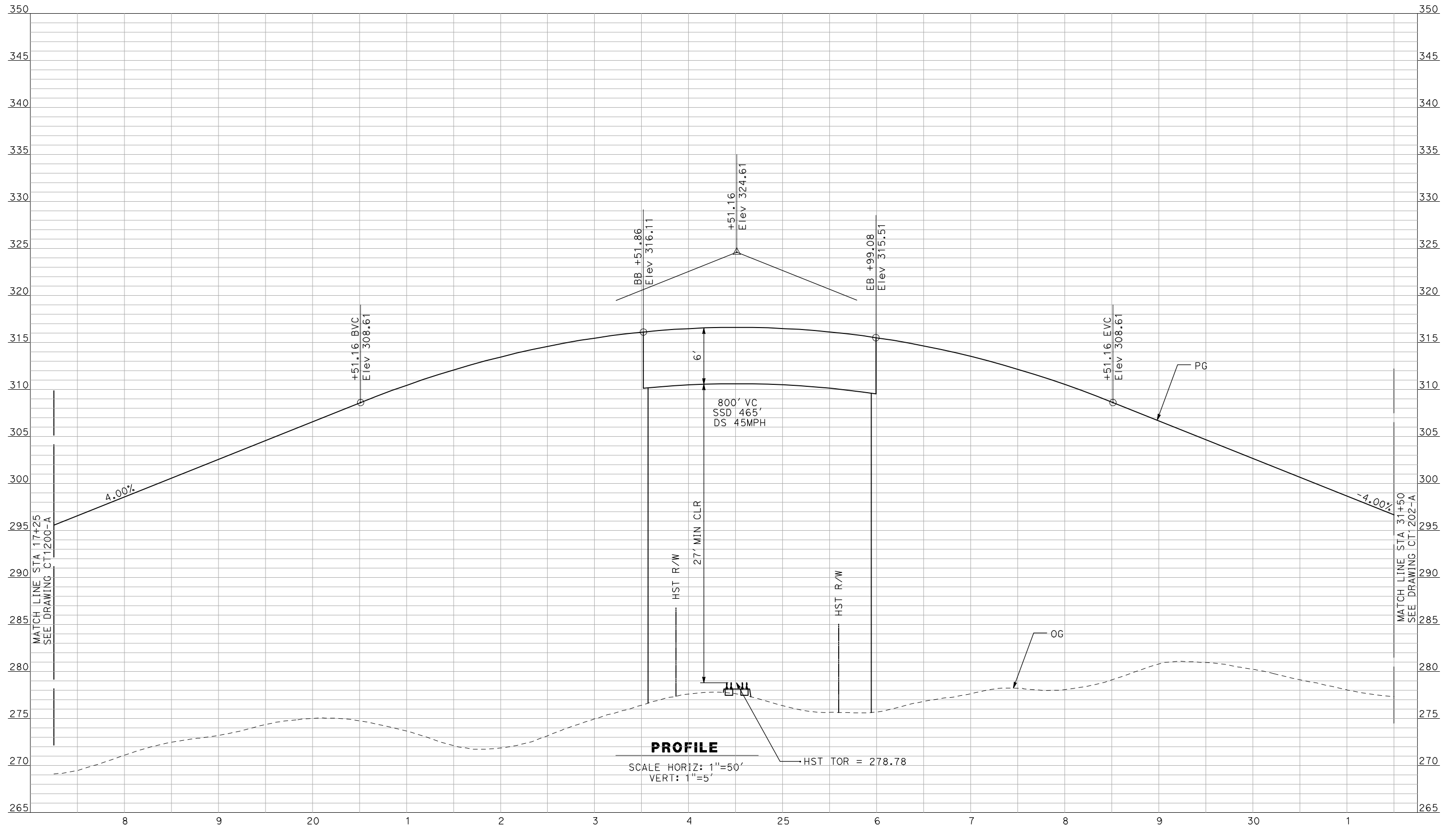
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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.
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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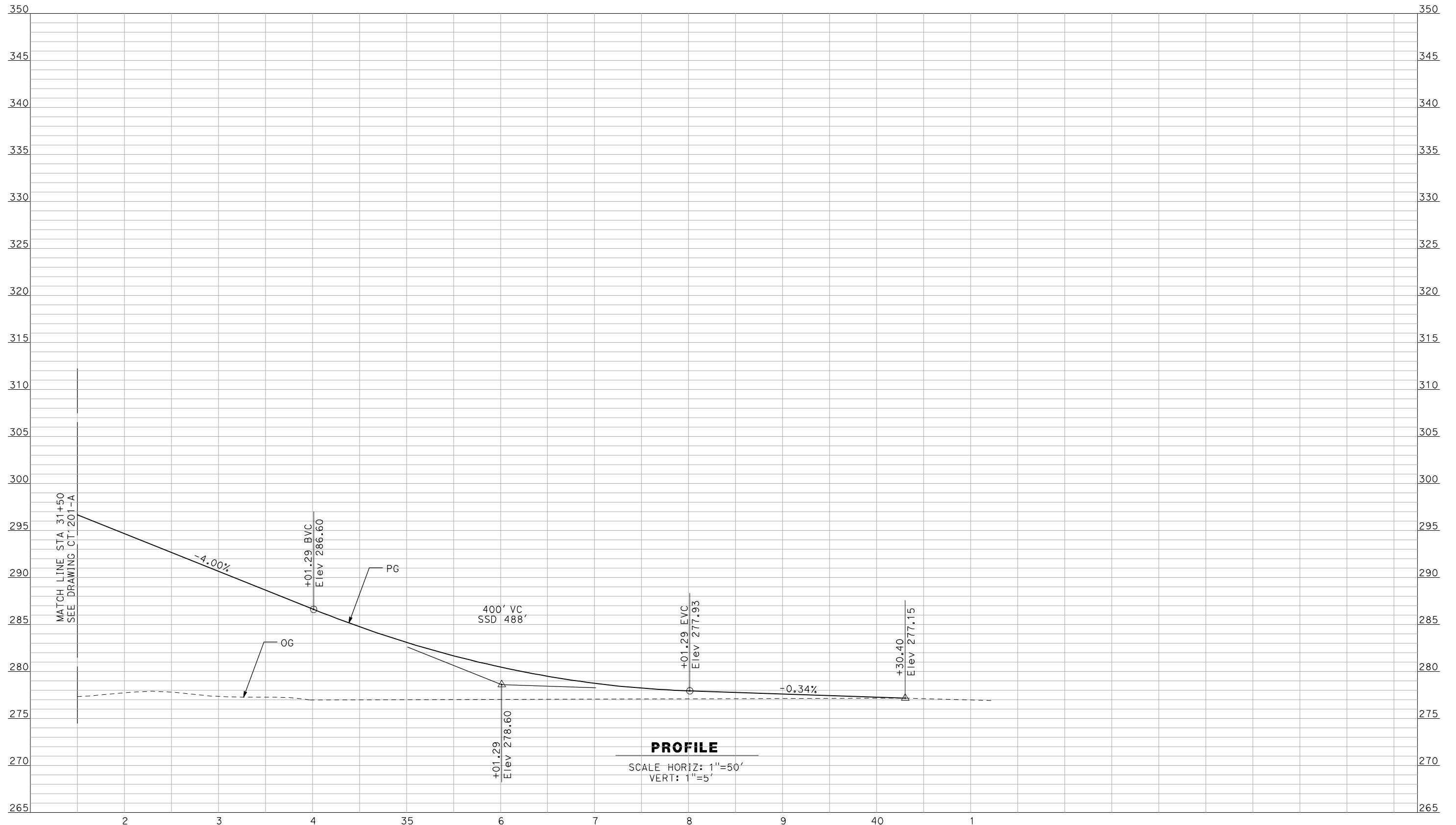
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. WHITE ROCK RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1201-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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A. BOONE
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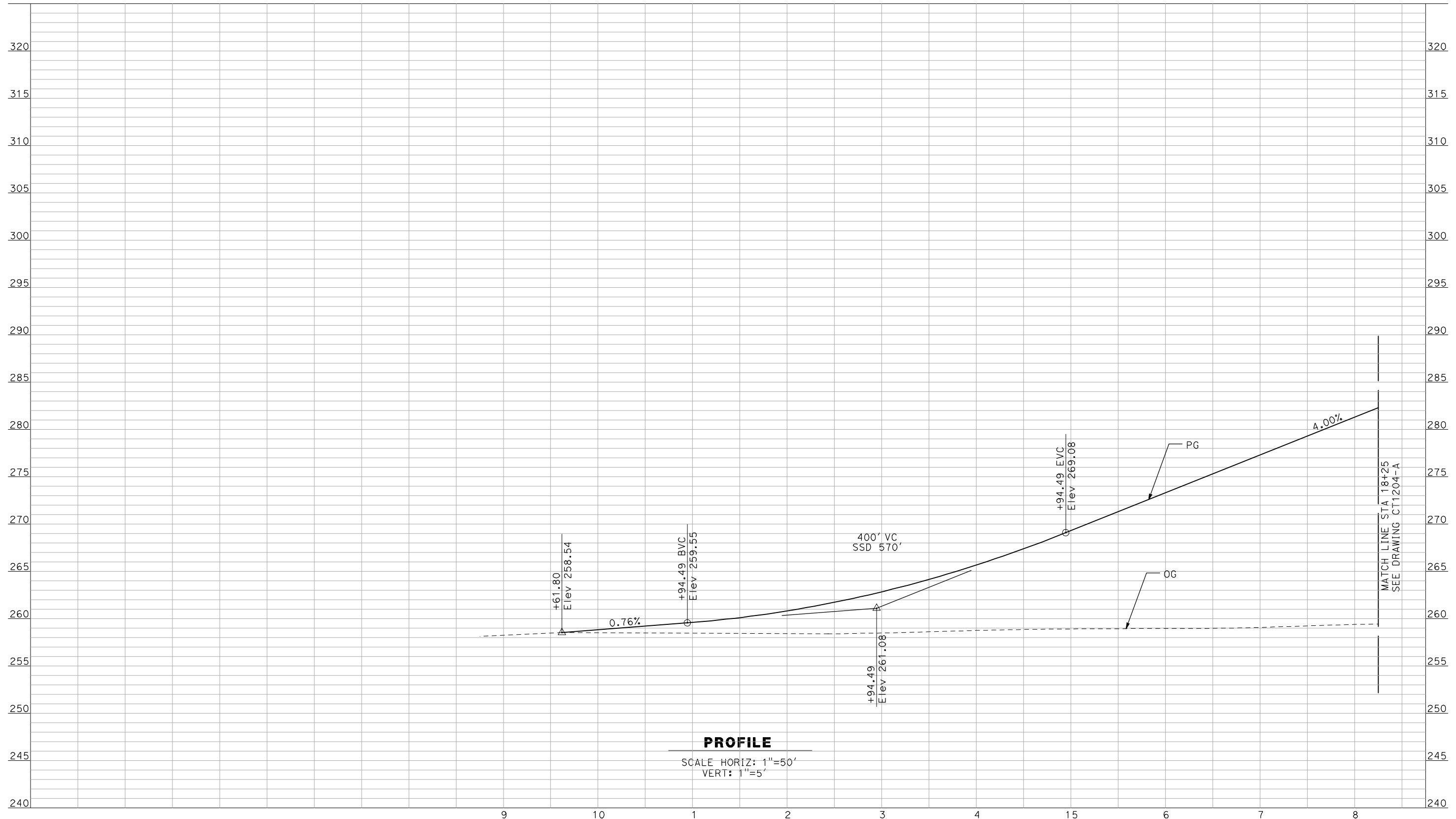
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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.
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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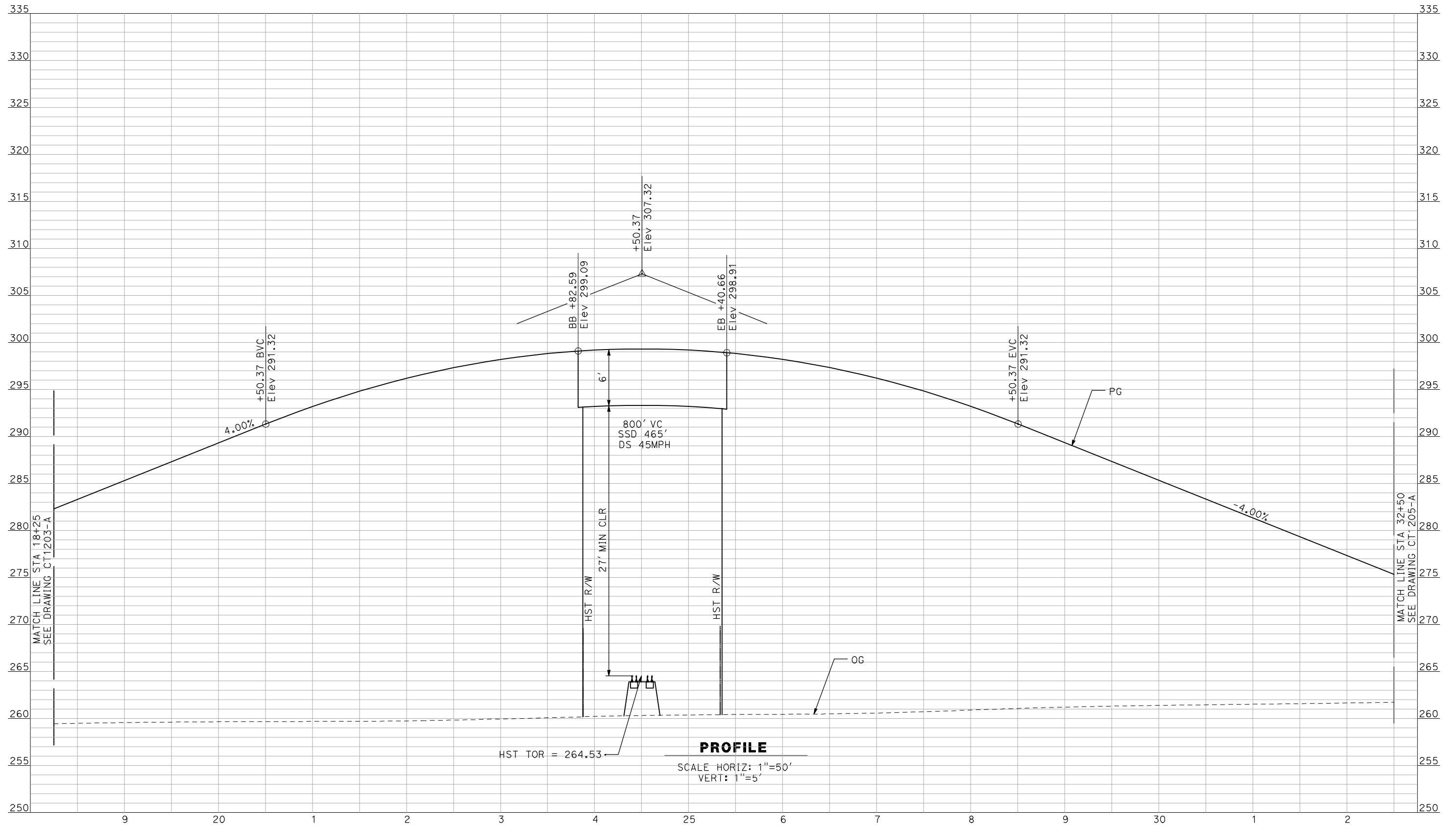
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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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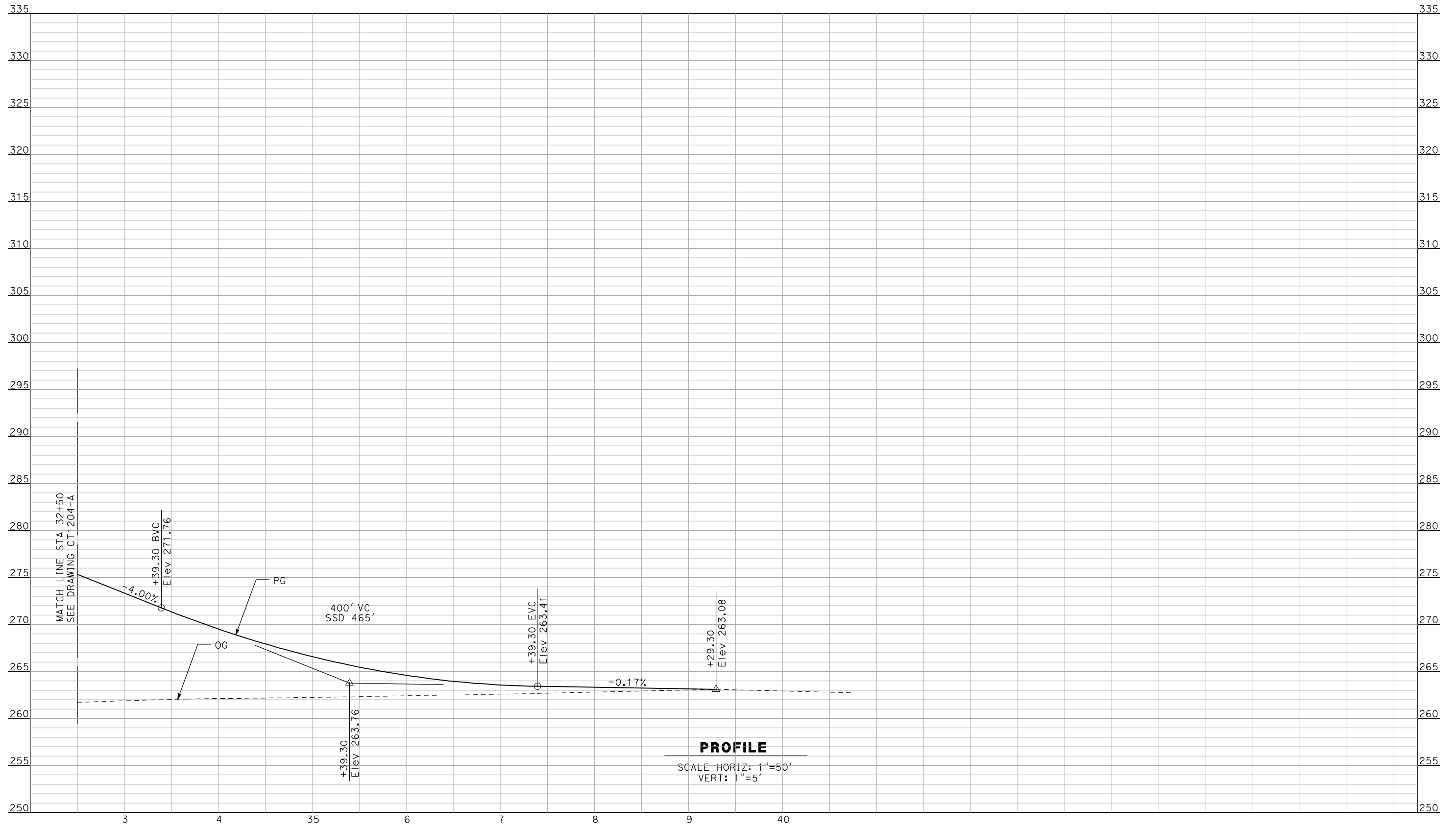
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1204-A
 SCALE
 AS SHOWN
 SHEET NO.
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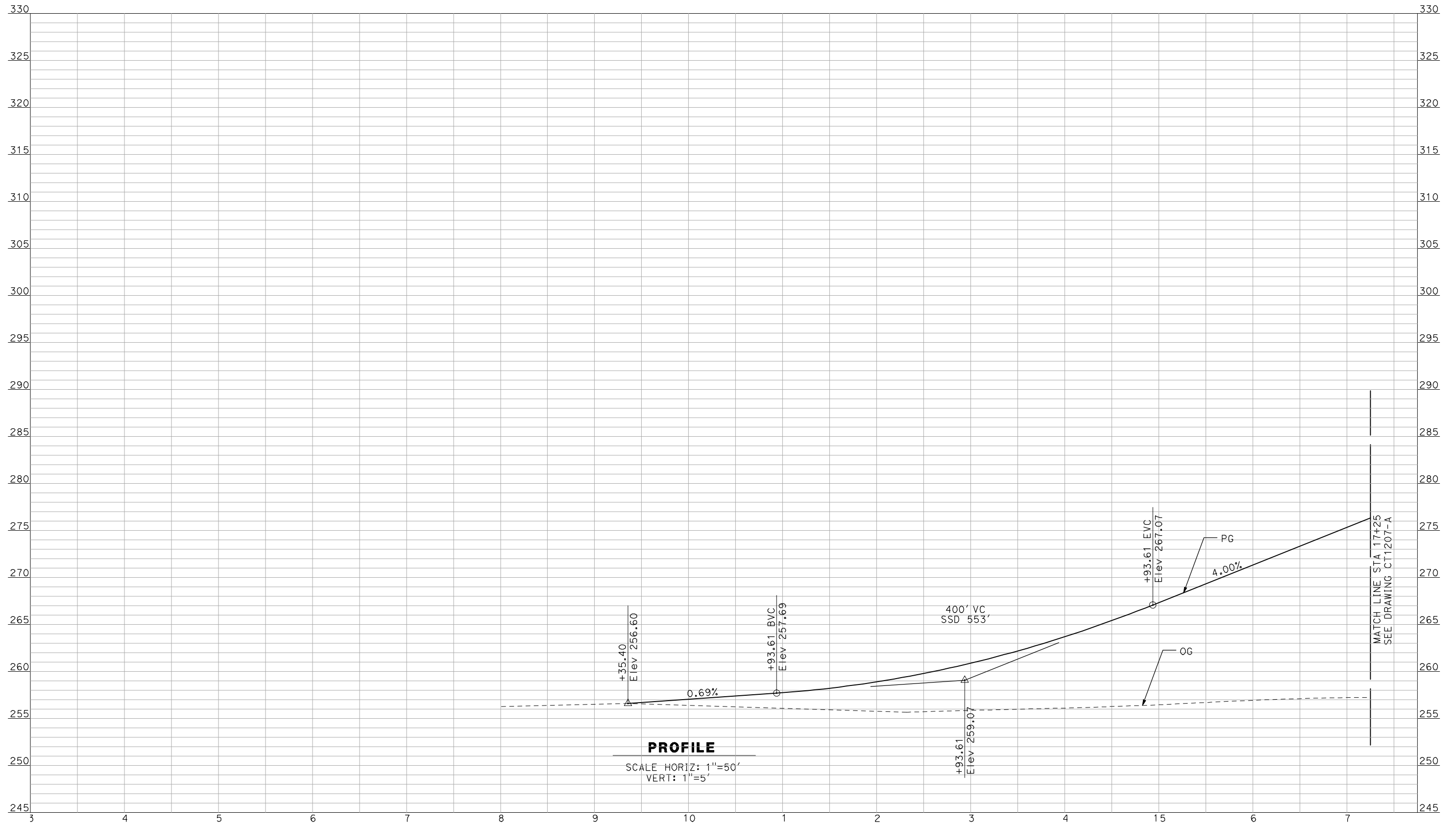
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
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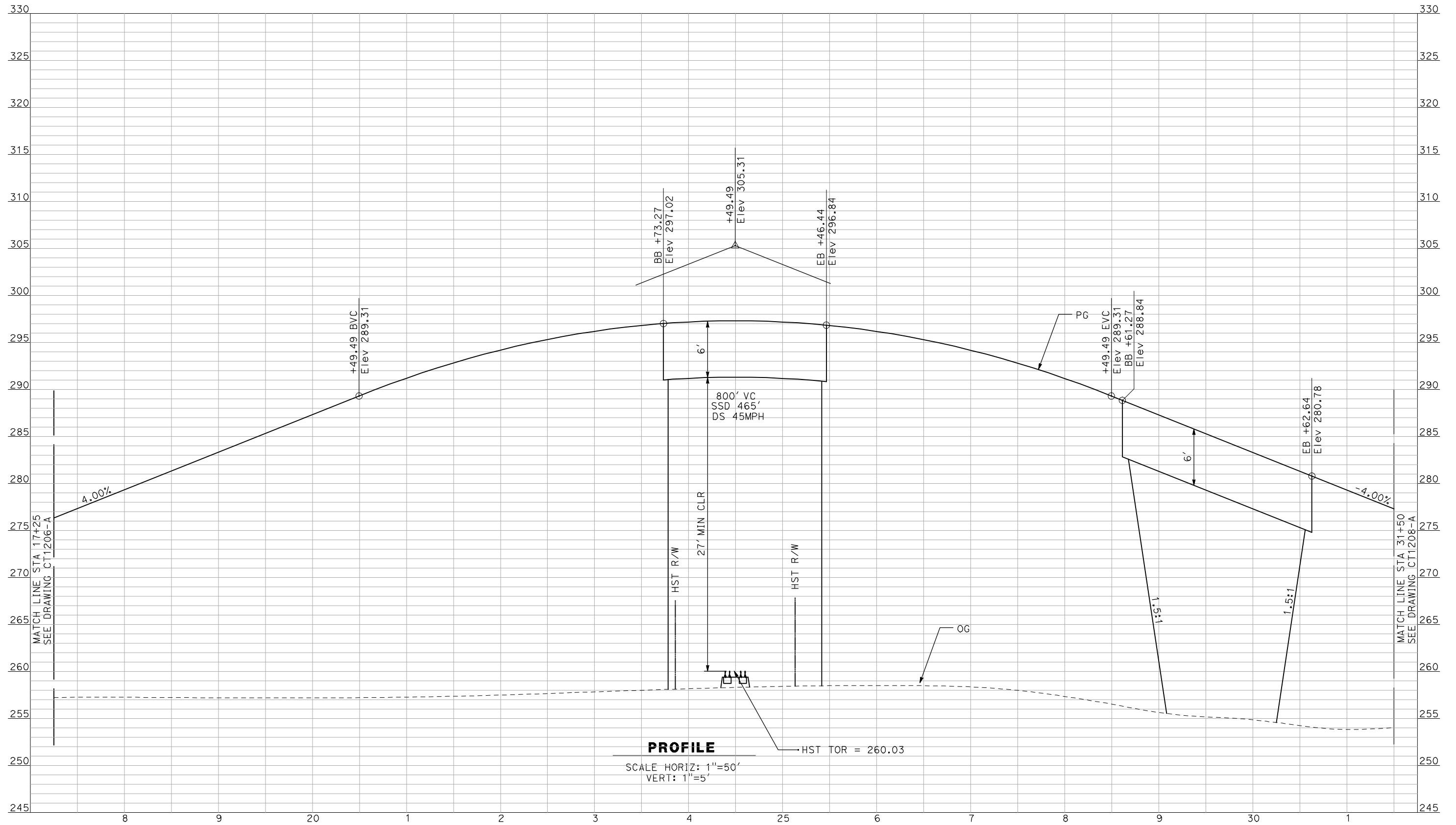
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - FRESNO RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
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CT1206-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - FRESNO RD
 PROFILE
 SHEET 2 OF 3

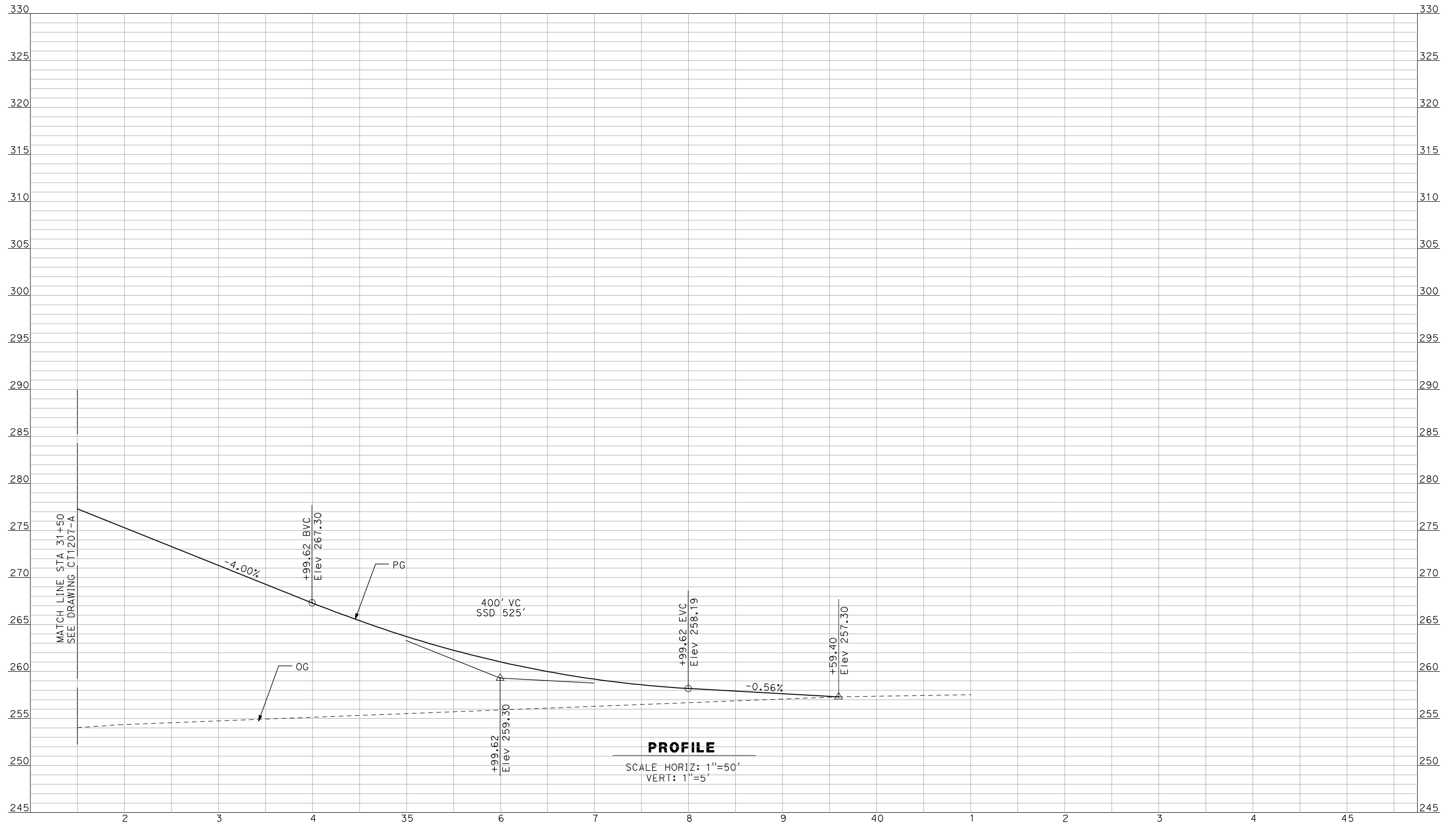
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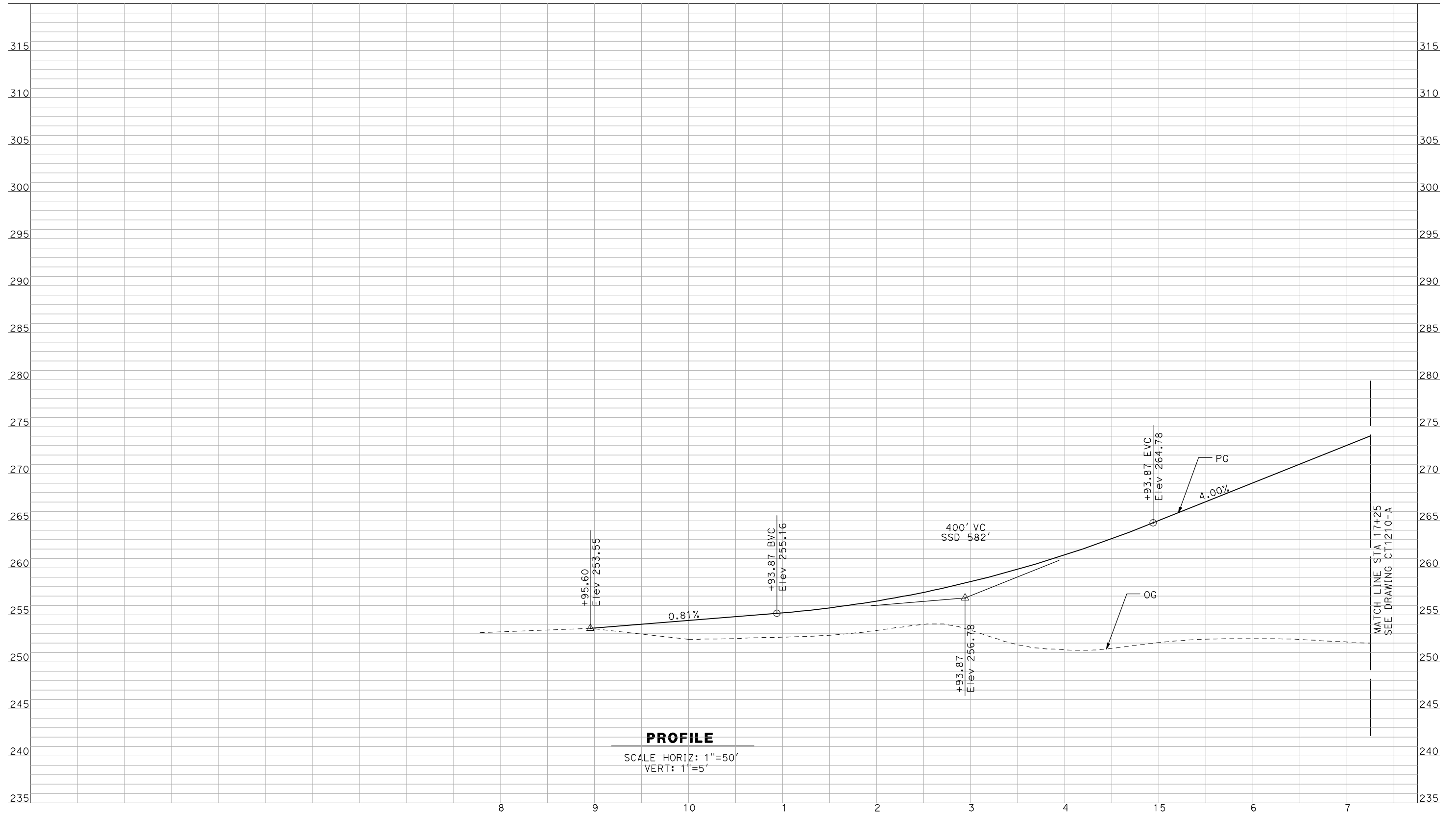


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - FRESNO RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
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 CT1208-A
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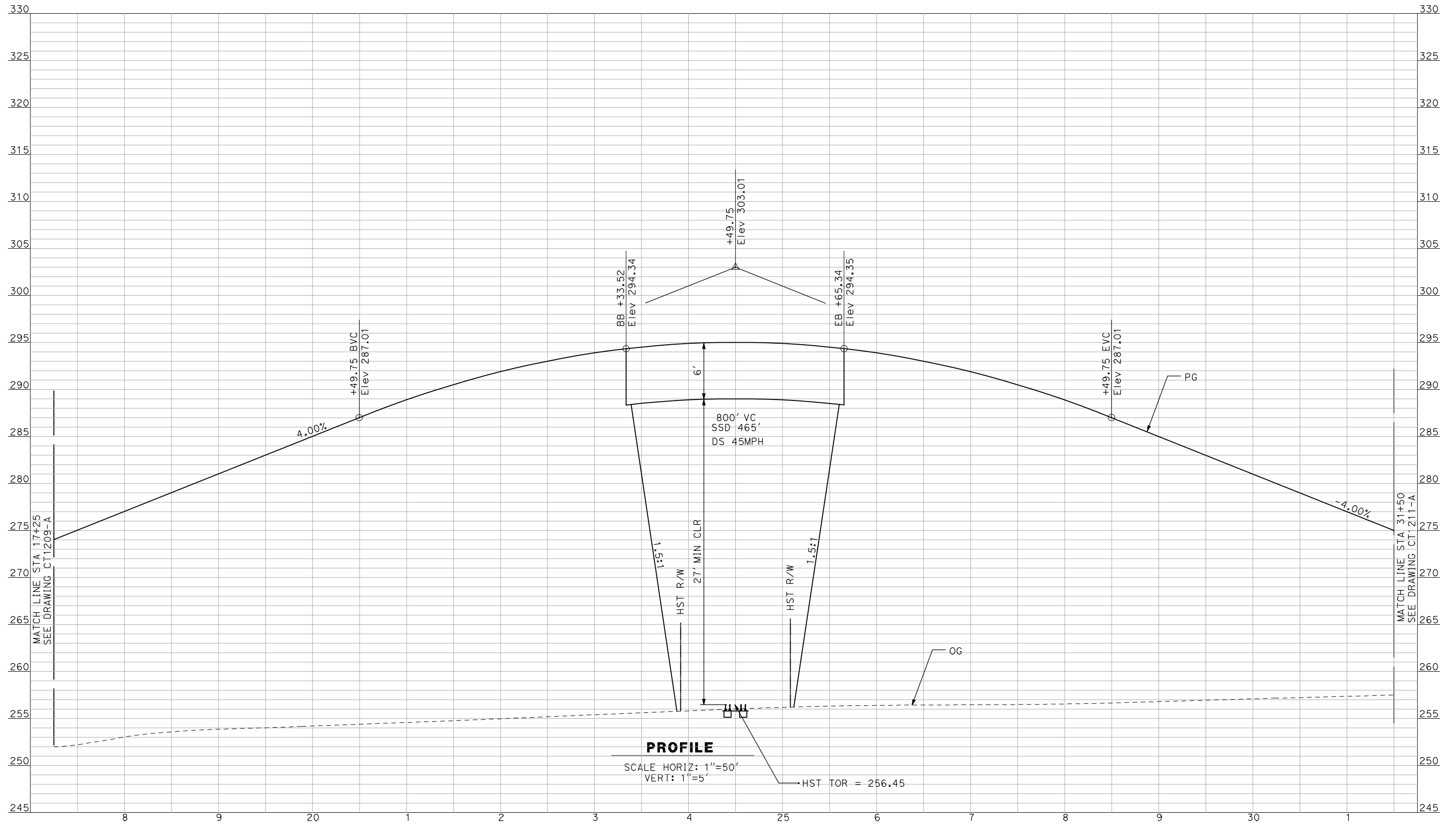
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - CUNNINGHAM RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1209-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'
 HST TOR = 256.45

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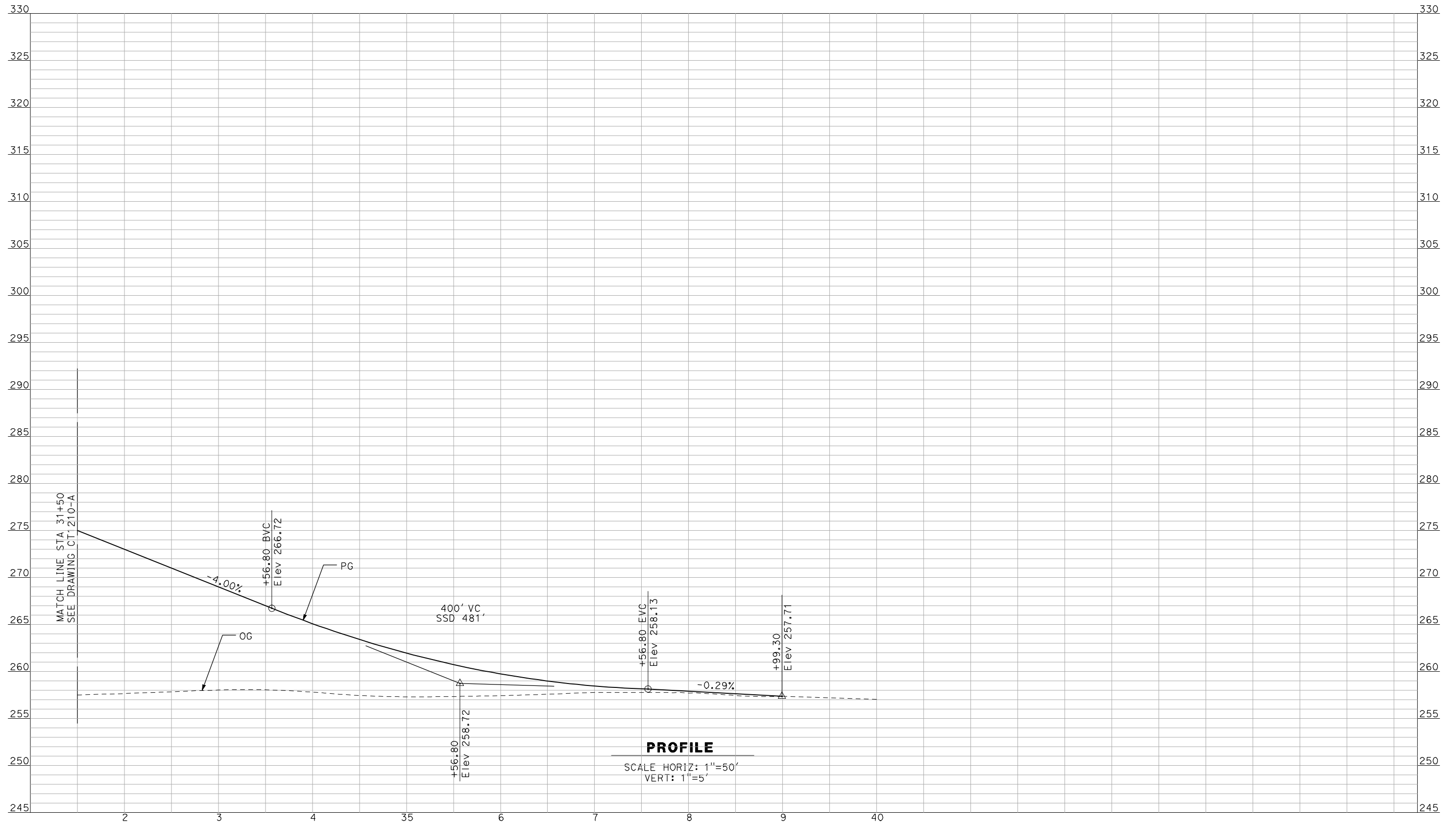


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - CUNNINGHAM RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1210-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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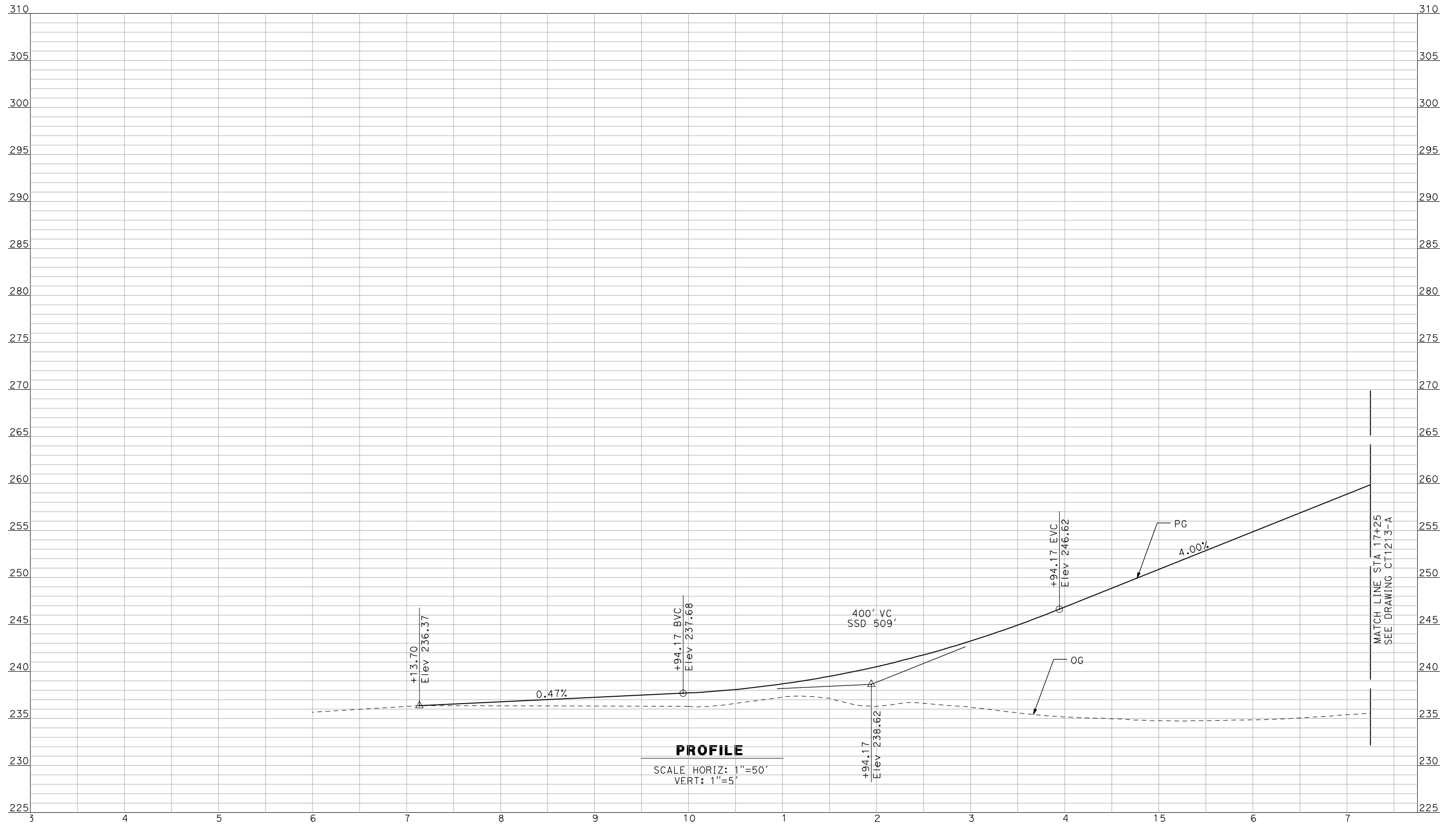
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - CUNNINGHAM RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT1211-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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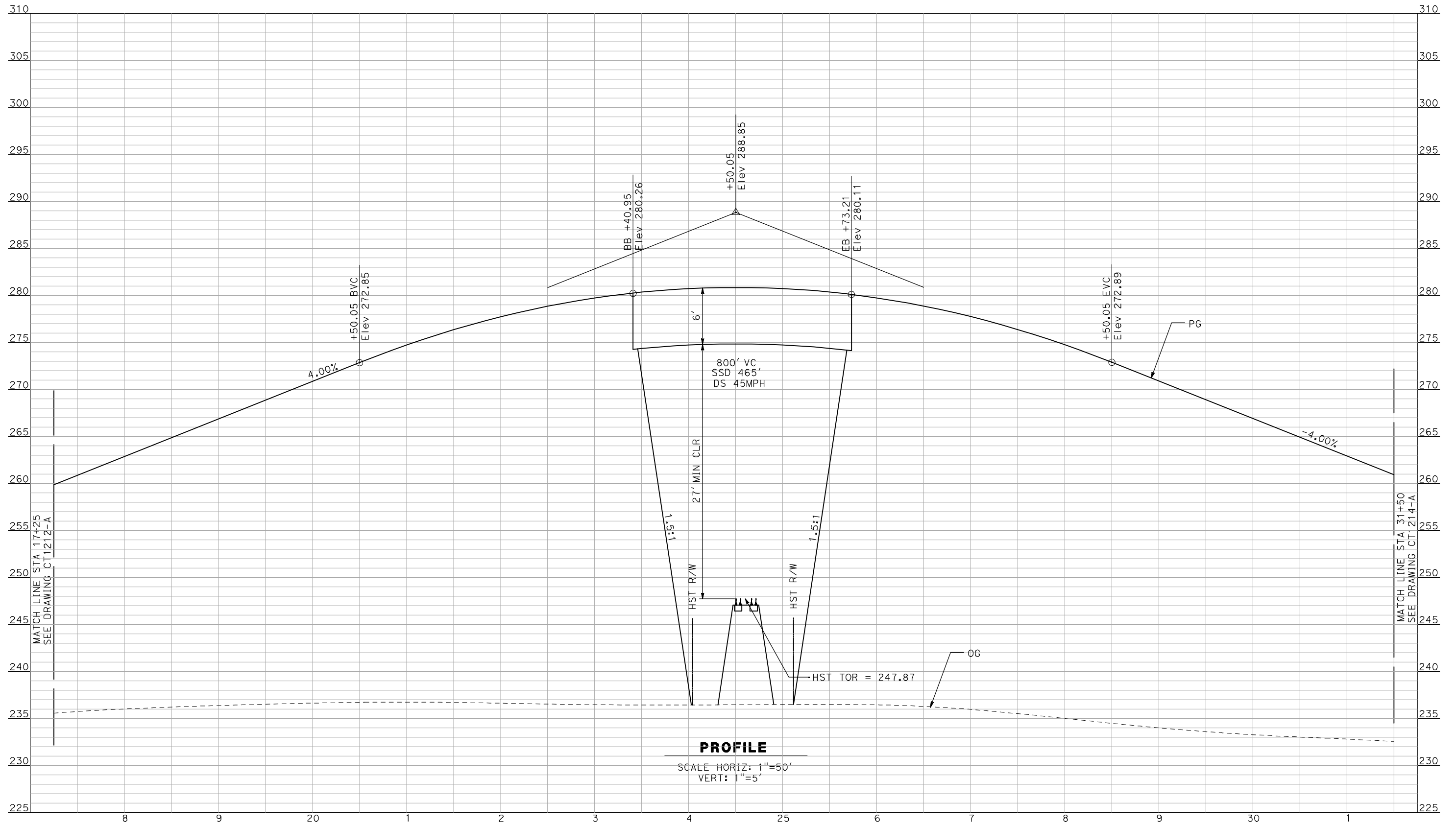


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 21 WYE
GRADE SEPARATION - BURCHELL RD
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT1212-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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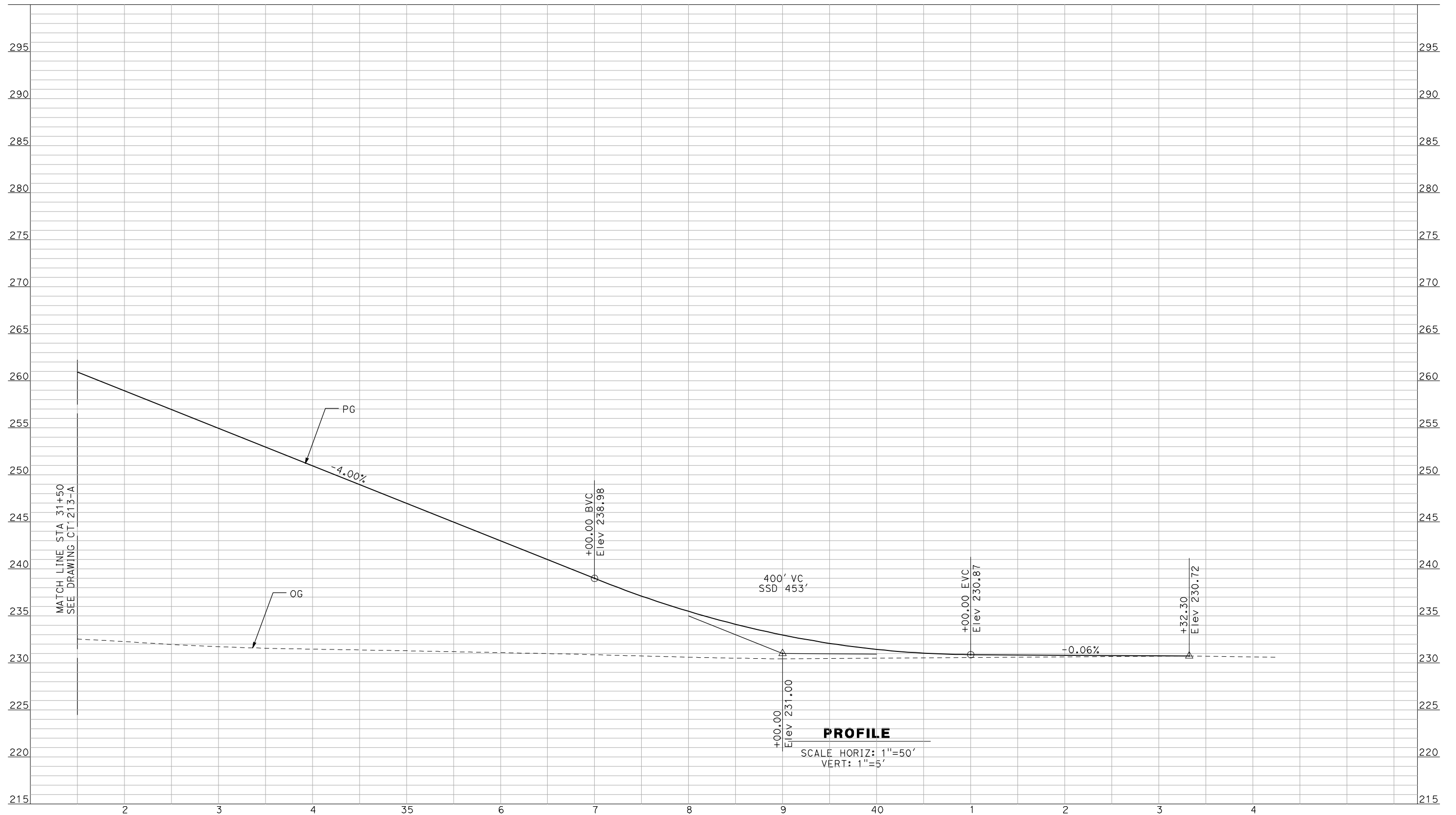
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - BURCHELL RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
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CT1213-A
 SCALE
AS SHOWN
 SHEET NO.
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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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A. BOONE
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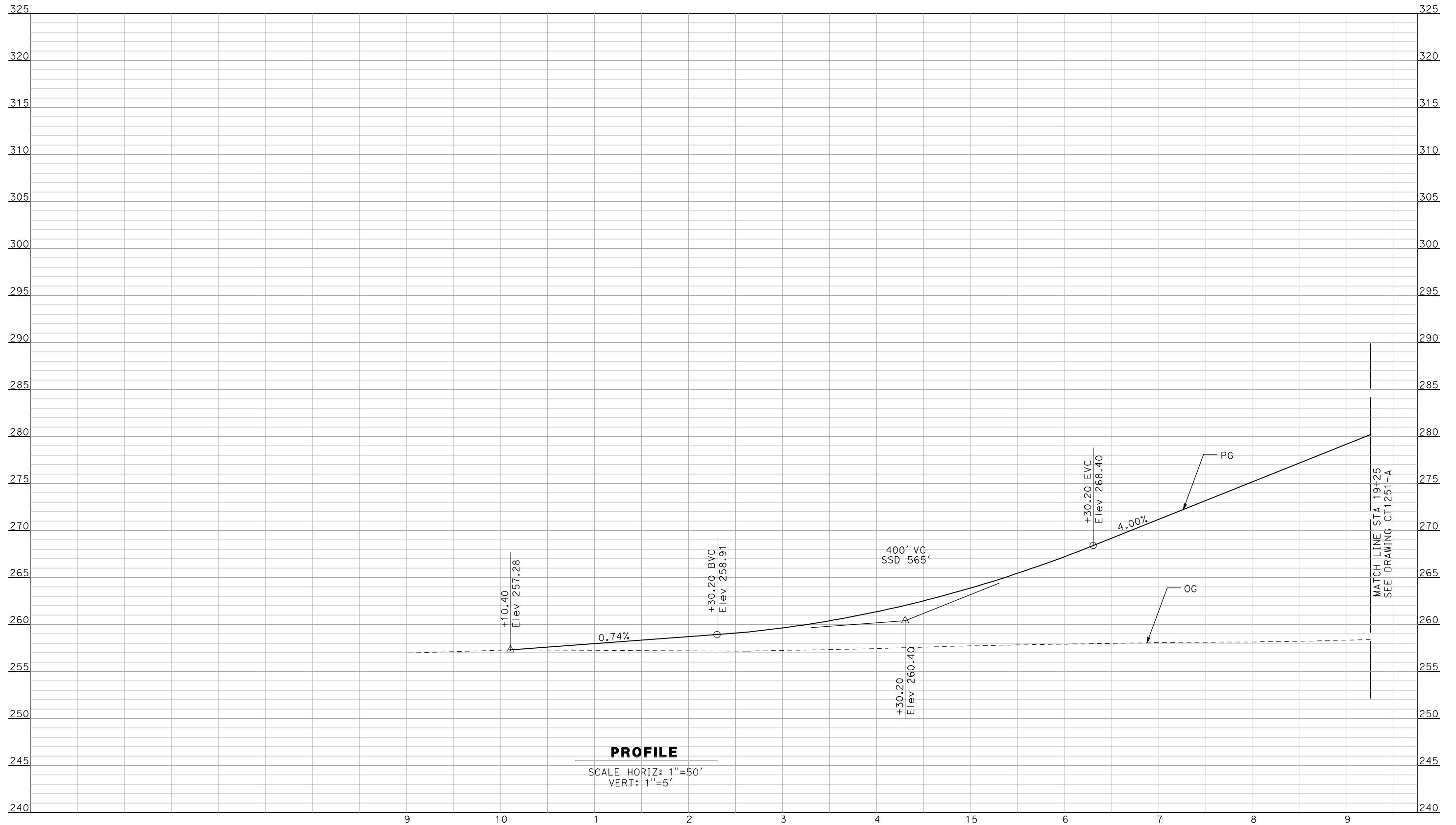
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - BURCHELL RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1214-A
 SCALE
AS SHOWN
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A. BOONE
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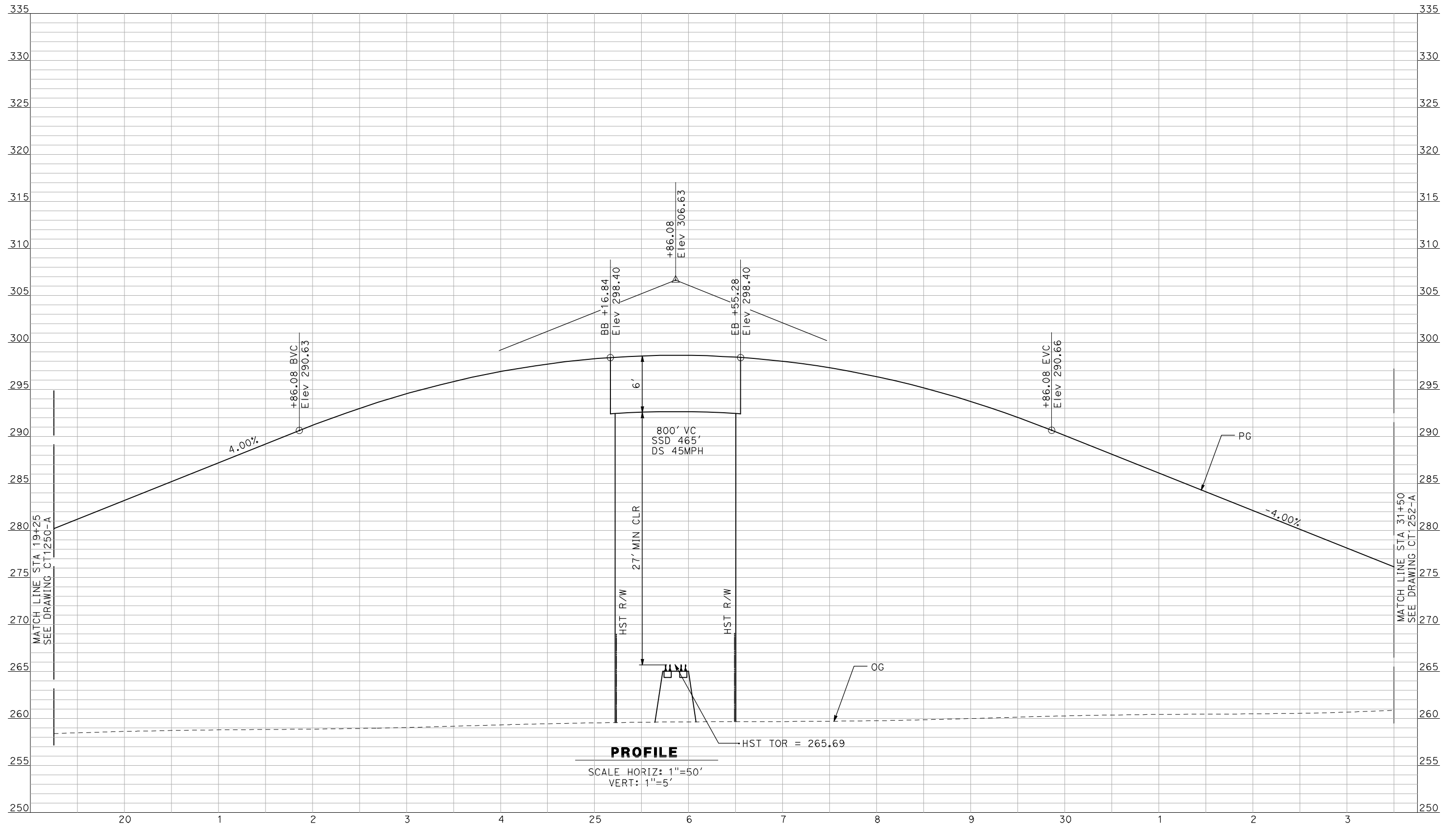


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1250-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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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1251-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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A. BOONE
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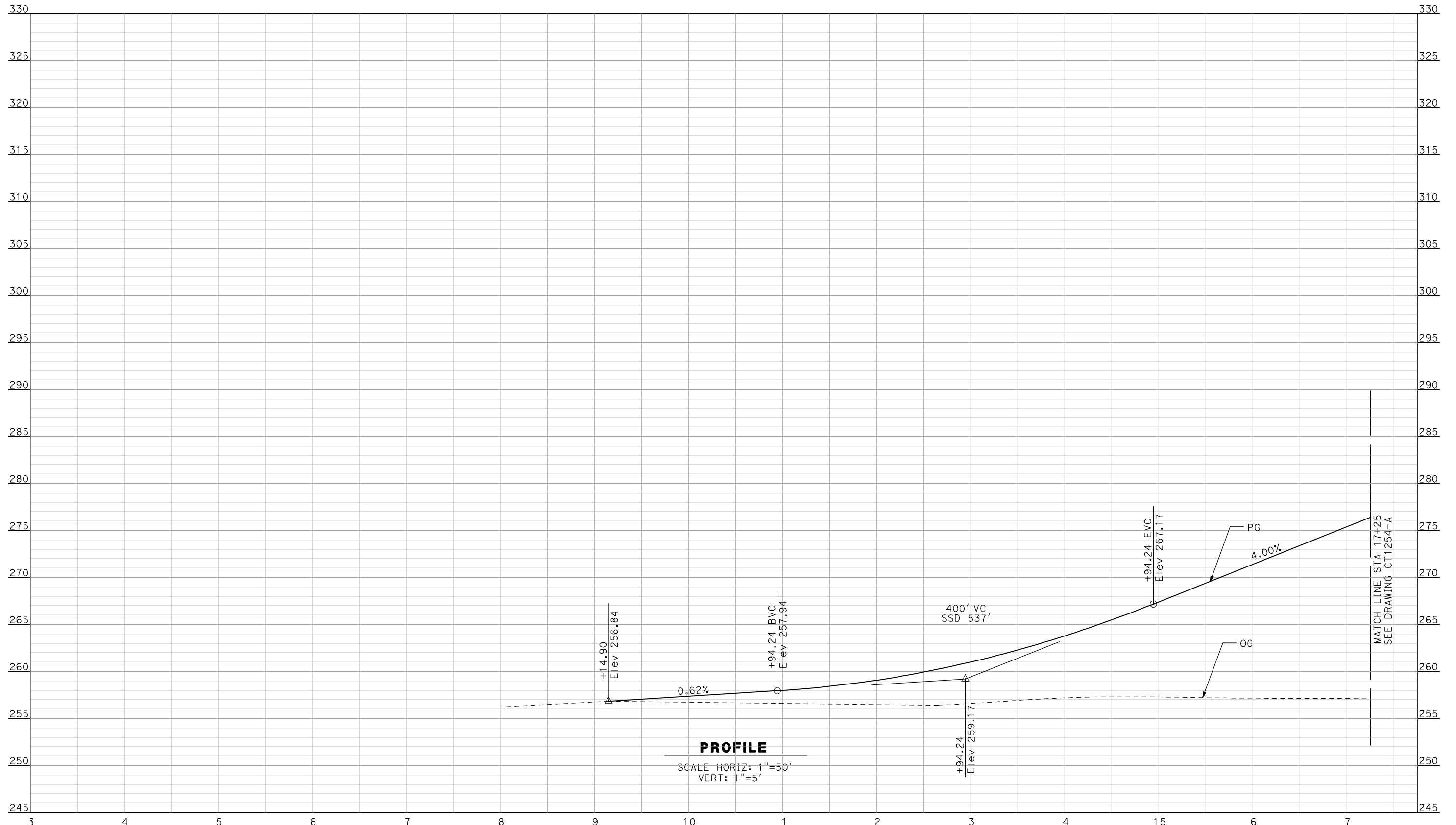
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - LE GRAND RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.	HSR06-007
DRAWING NO.	CT1252-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

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A. BOONE
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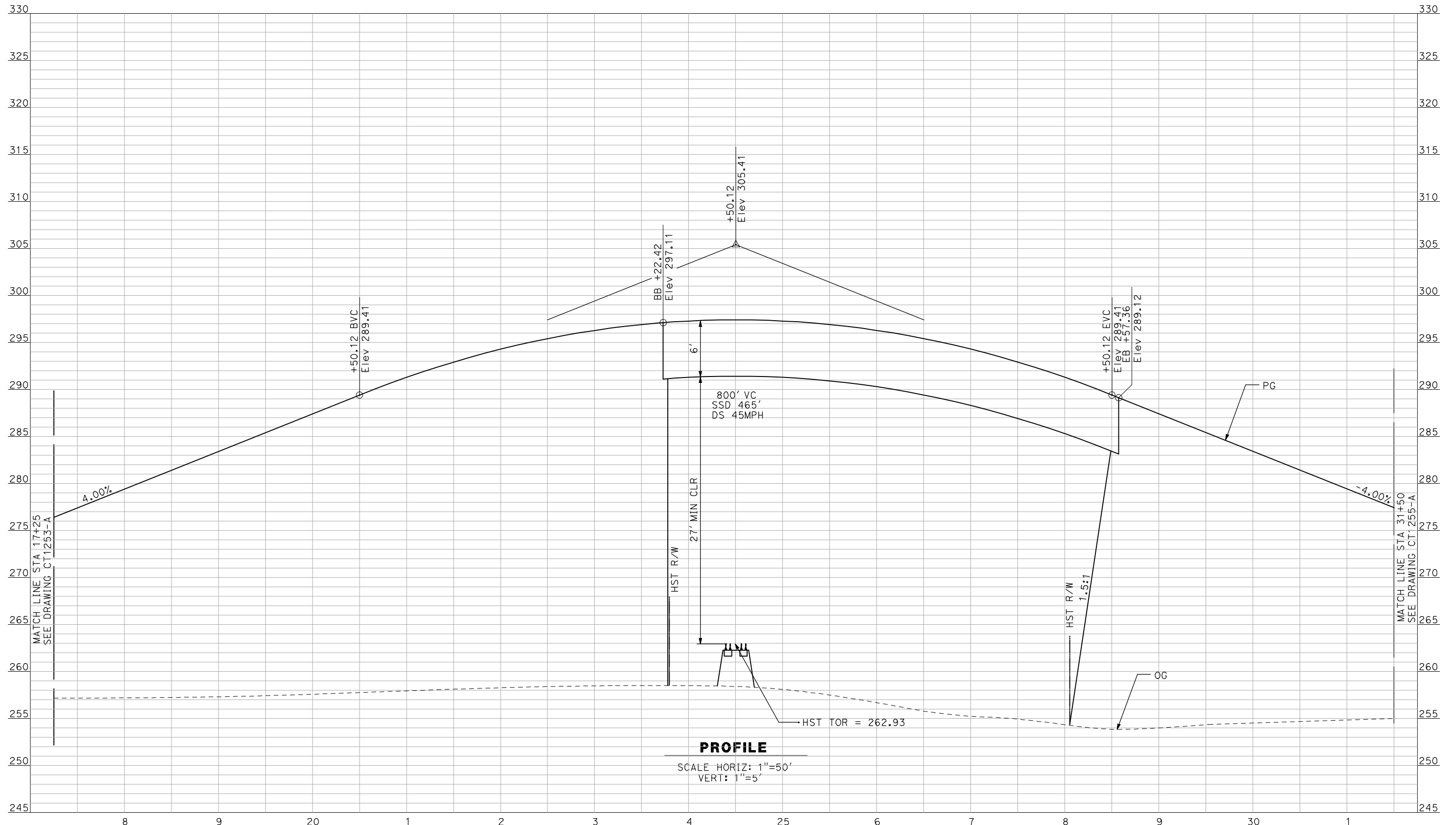
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. FRESNO RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1253-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

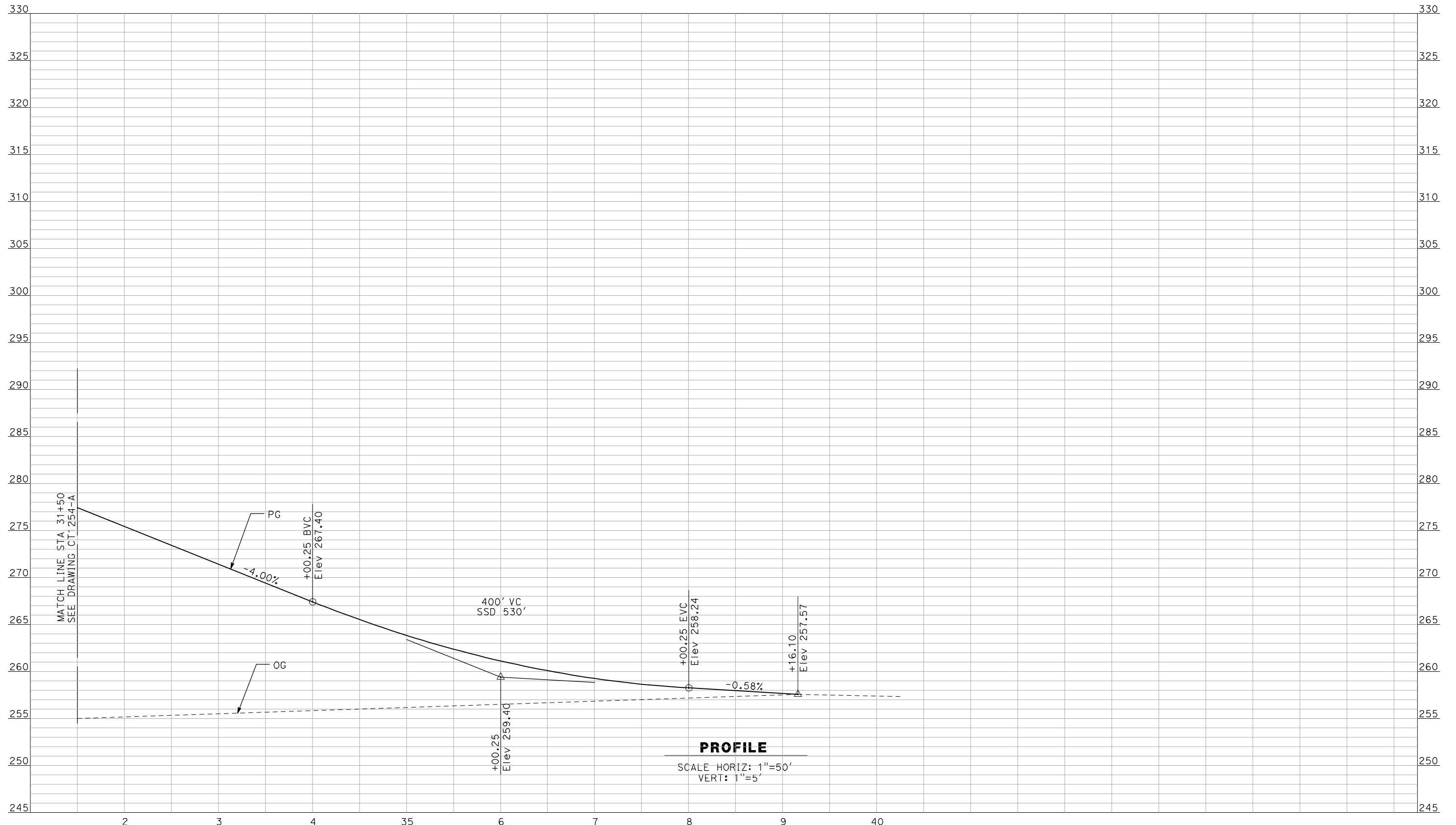
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. FRESNO RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1254-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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A. BOONE
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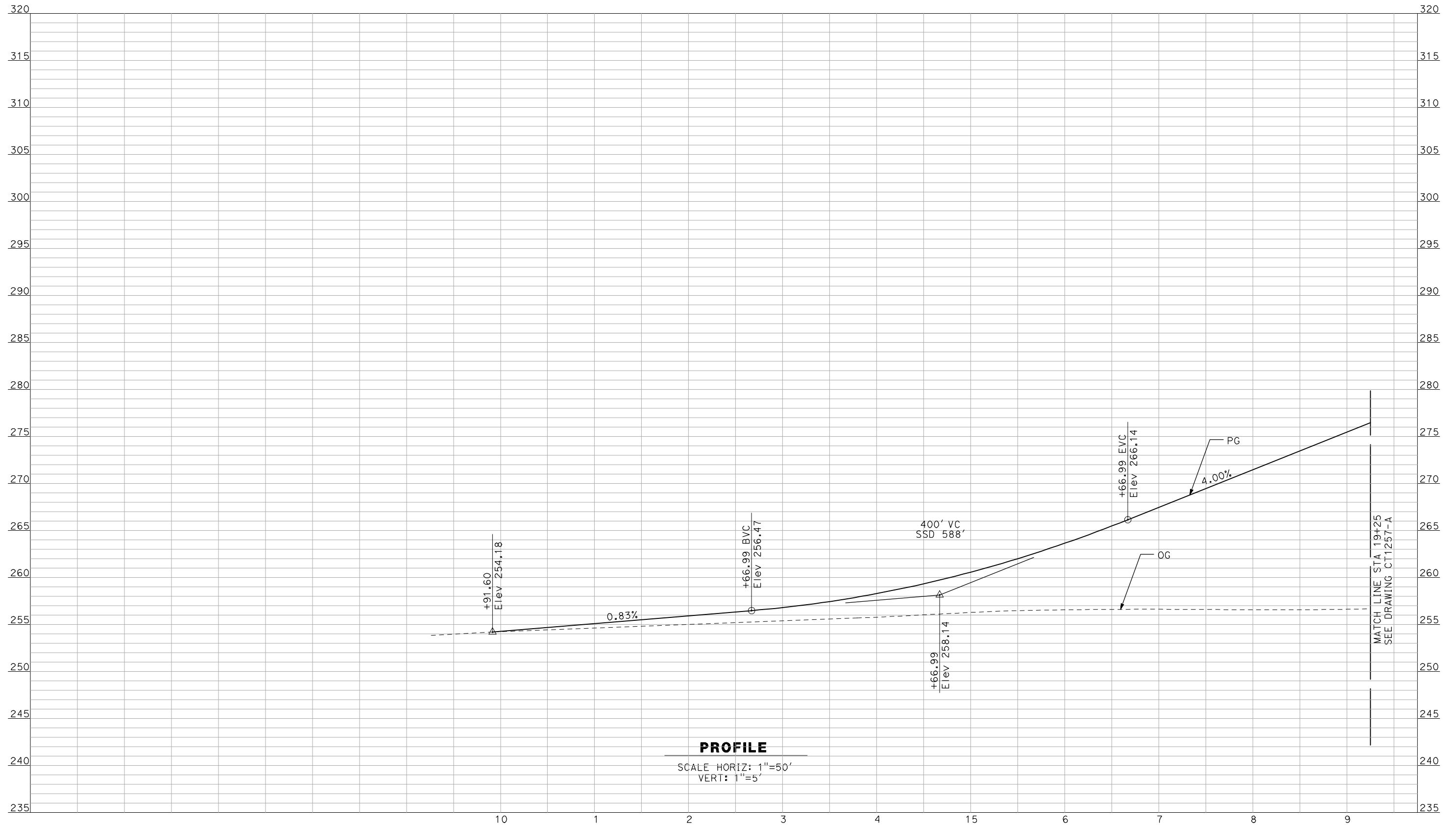
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. FRESNO RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1255-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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

RECORD SET
15% DESIGN
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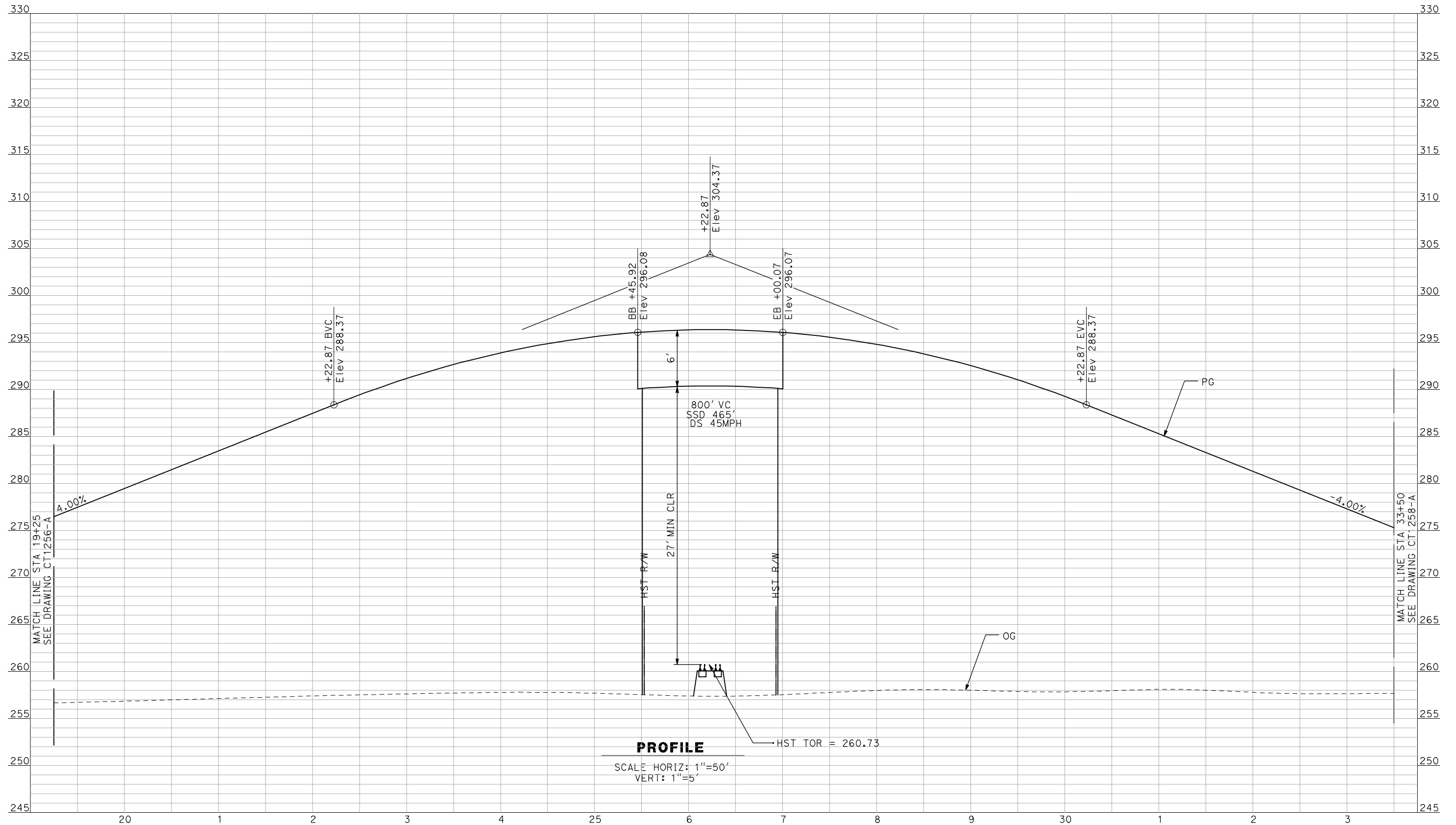


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. CUNNINGHAM RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1256-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
J. ZANDIAN
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A. BOONE
 DATE
04/29/2011

RECORD SET
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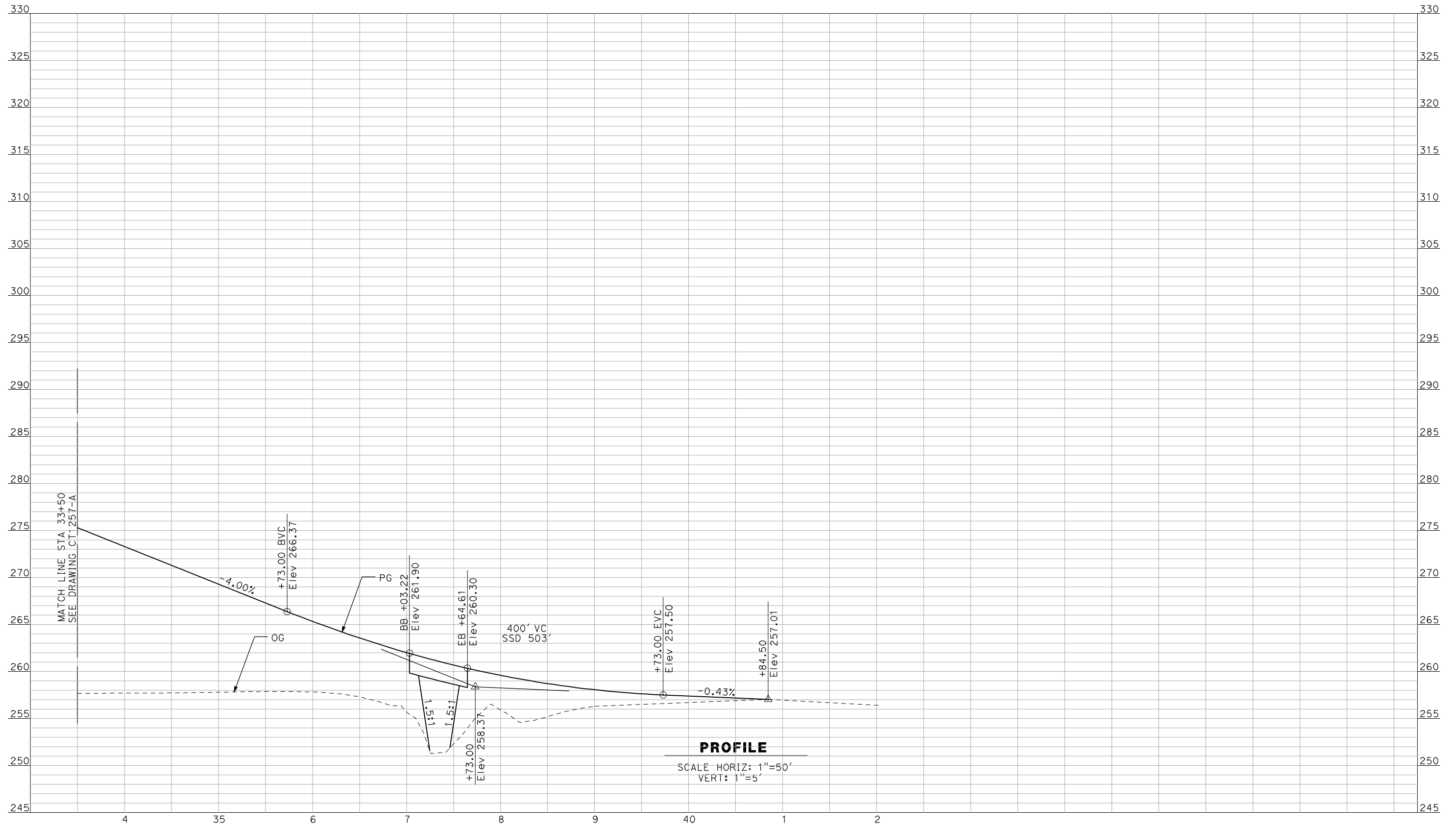


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. CUNNINGHAM RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1257-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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RECORD SET
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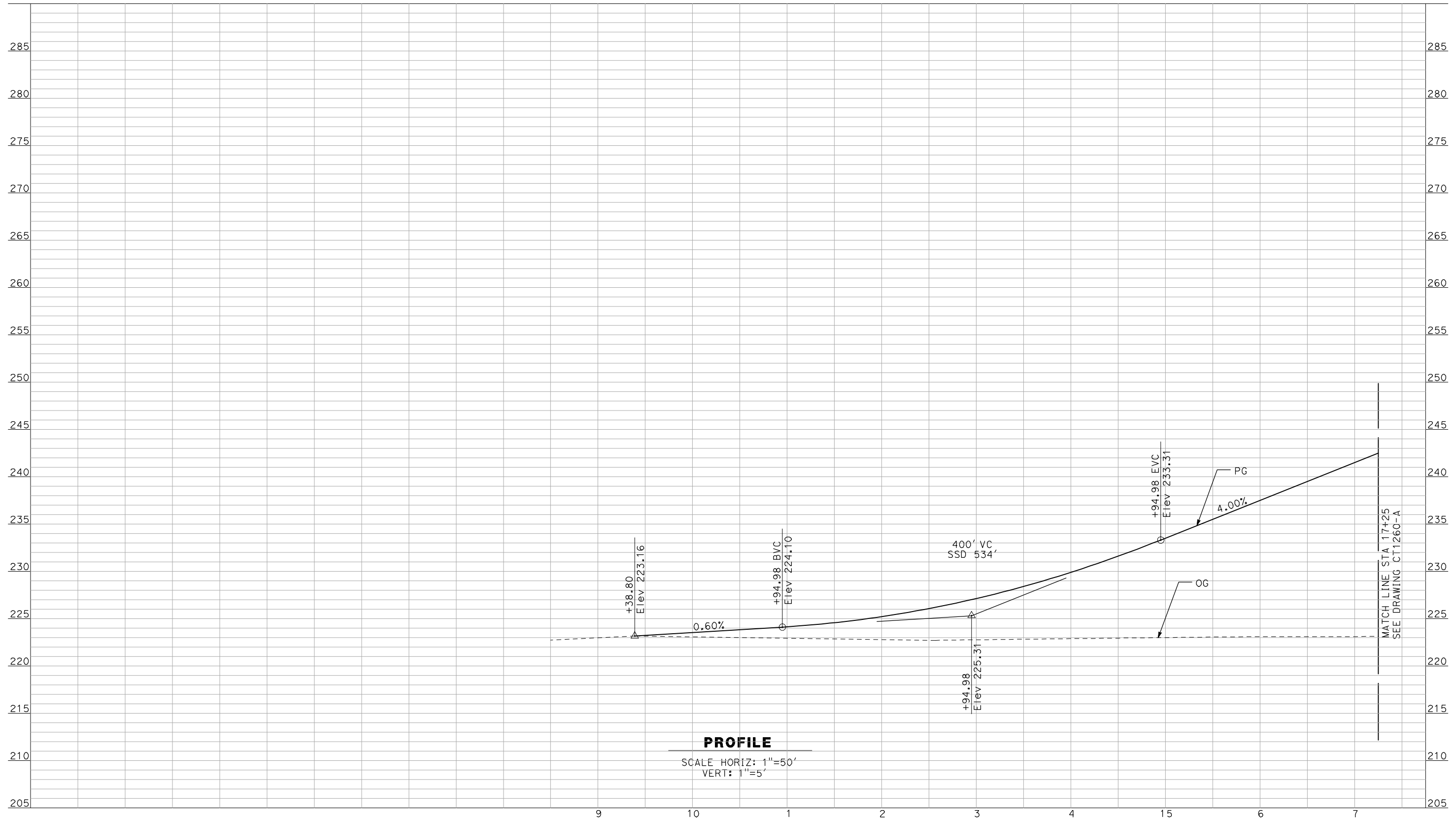
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. CUNNINGHAM RD
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1258-A
 SCALE
 AS SHOWN
 SHEET NO.
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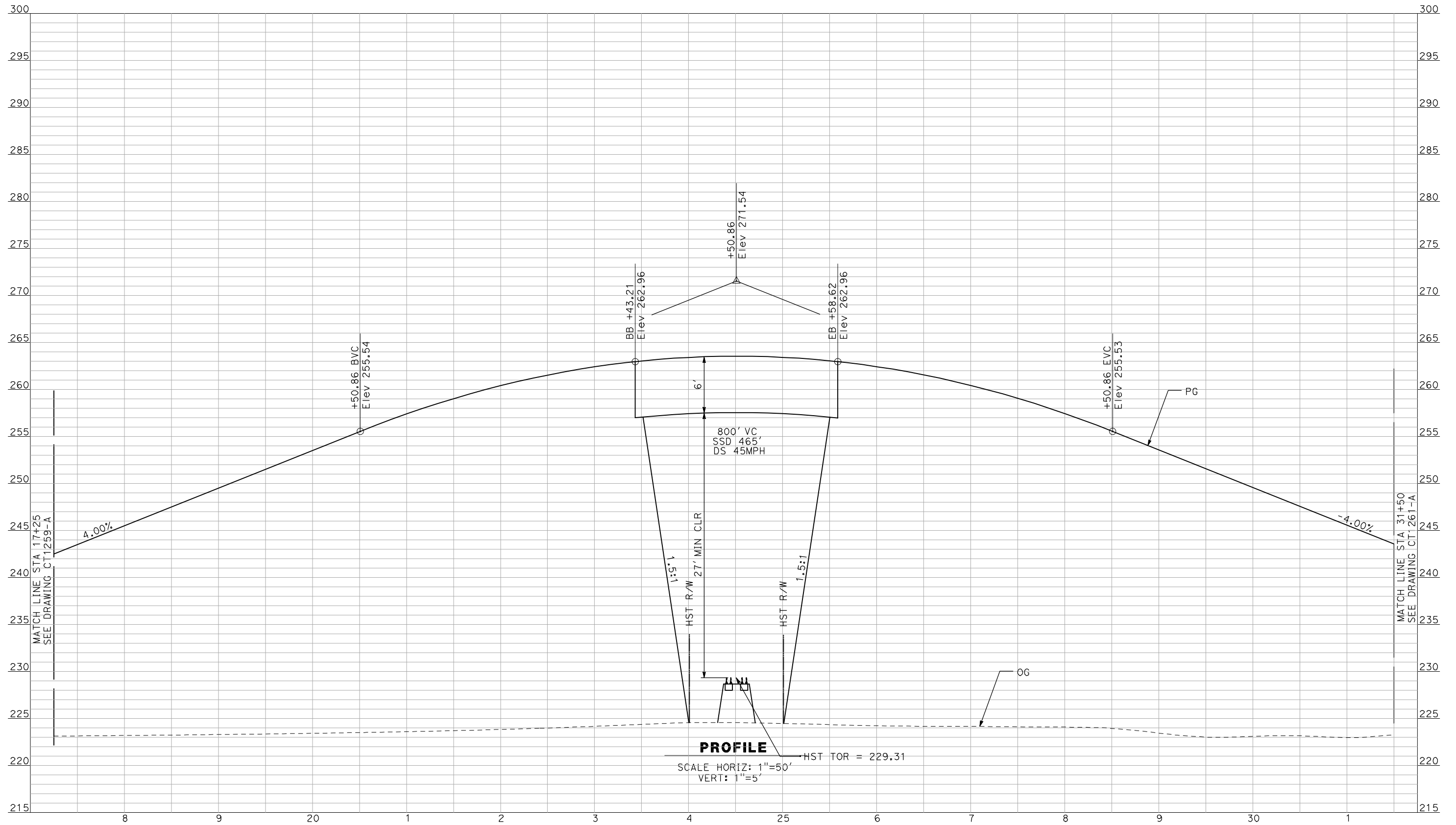
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - PLAINSBURG RD
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1259-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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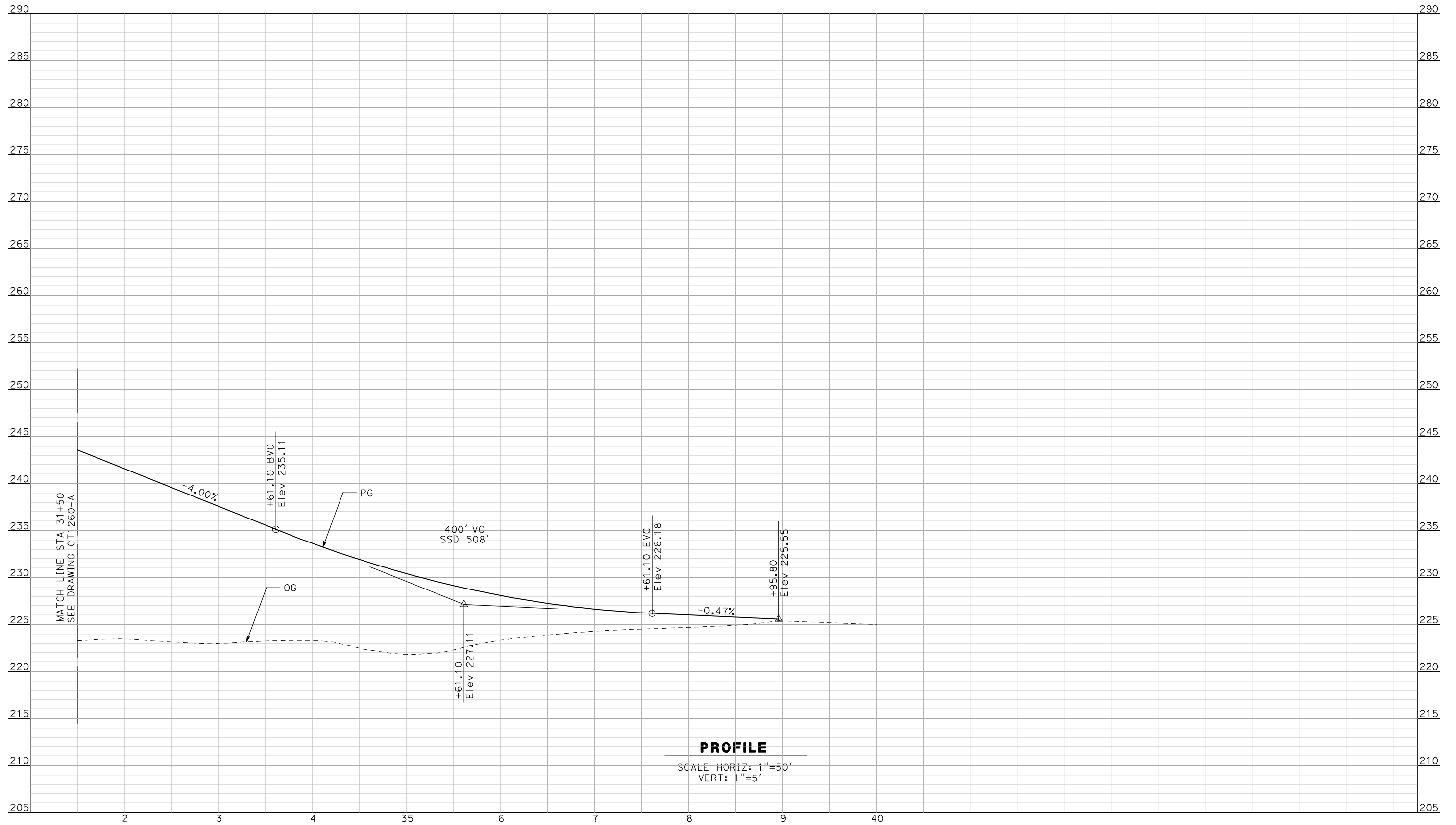


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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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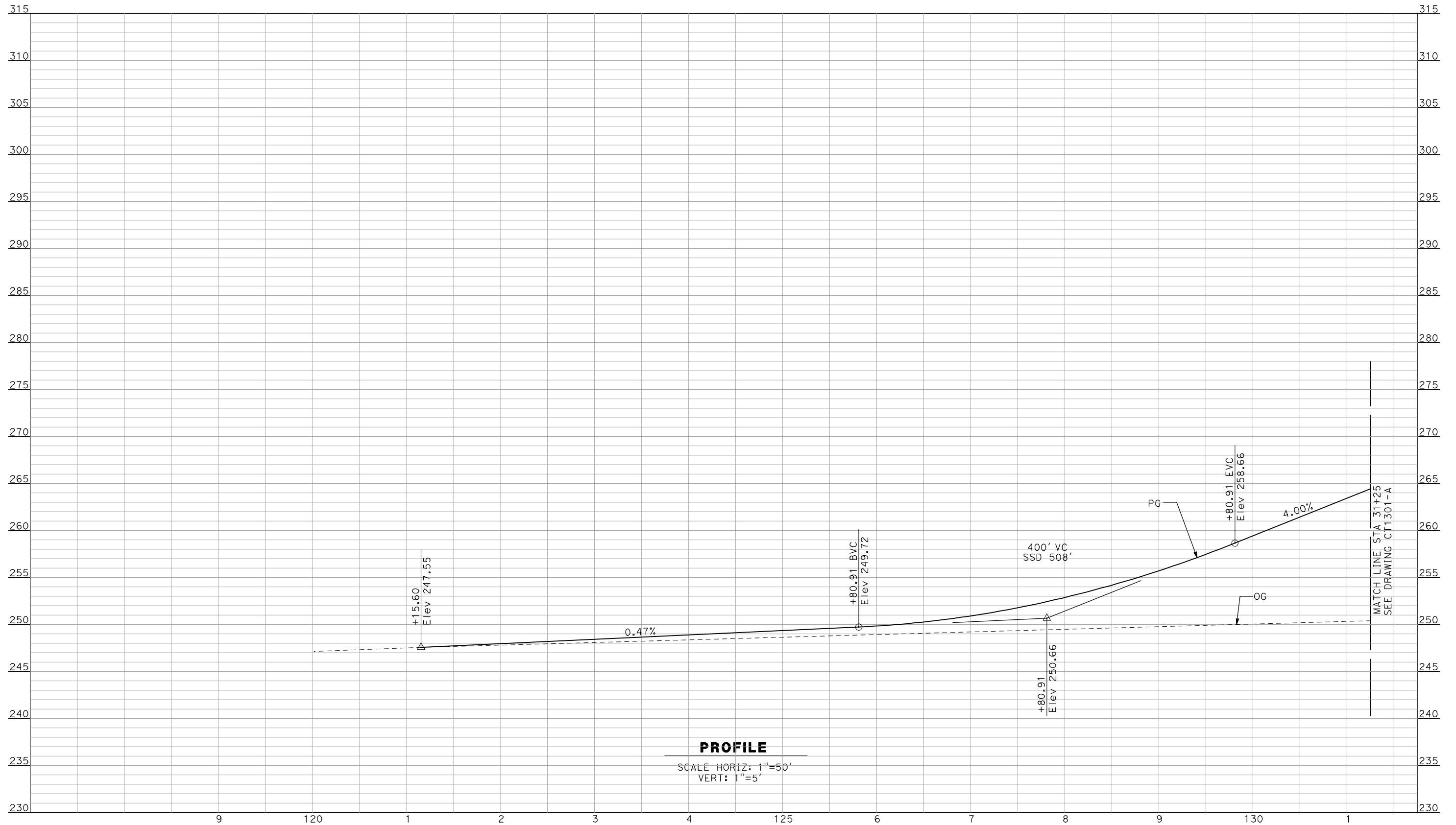


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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A. BOONE
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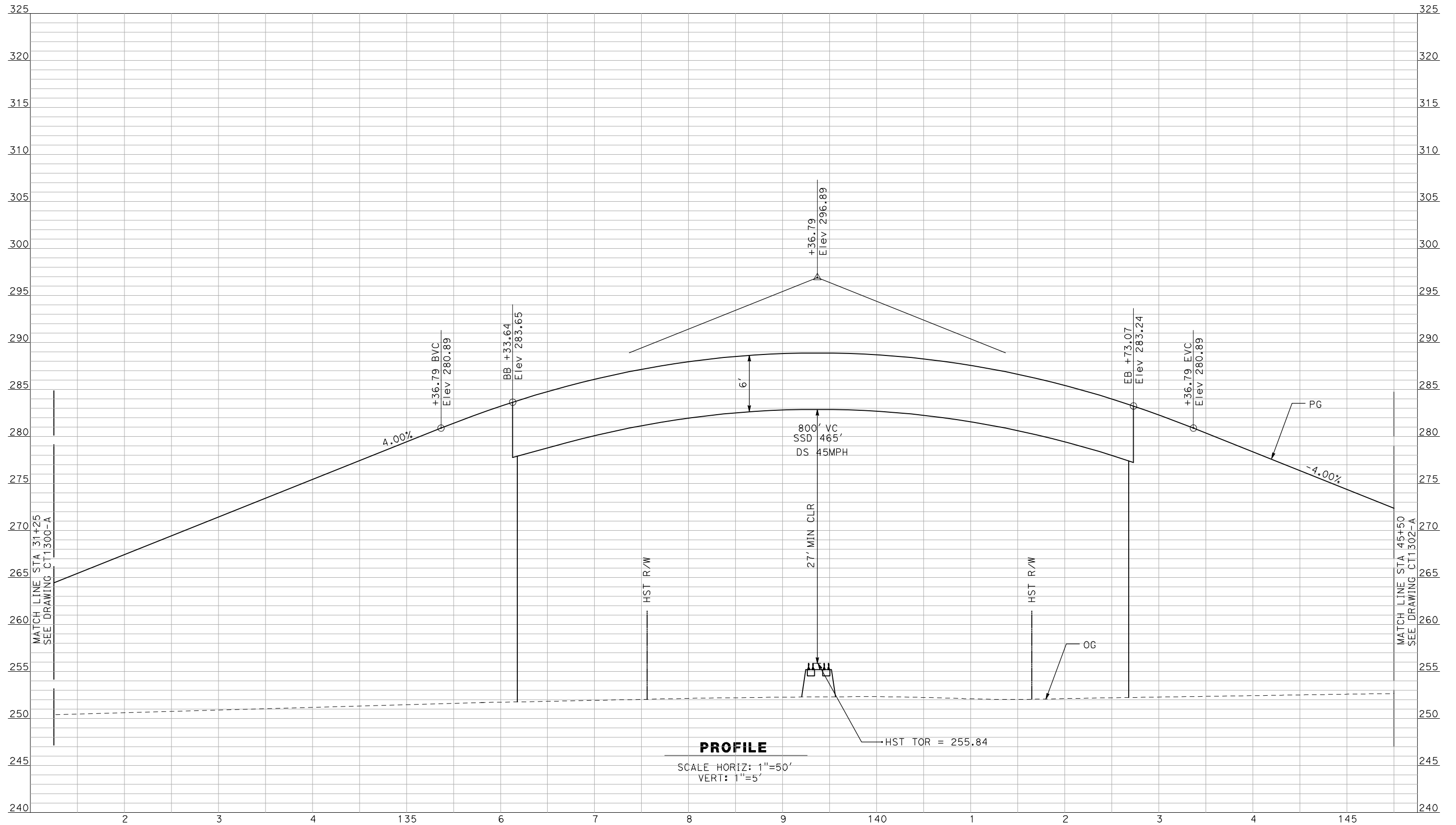
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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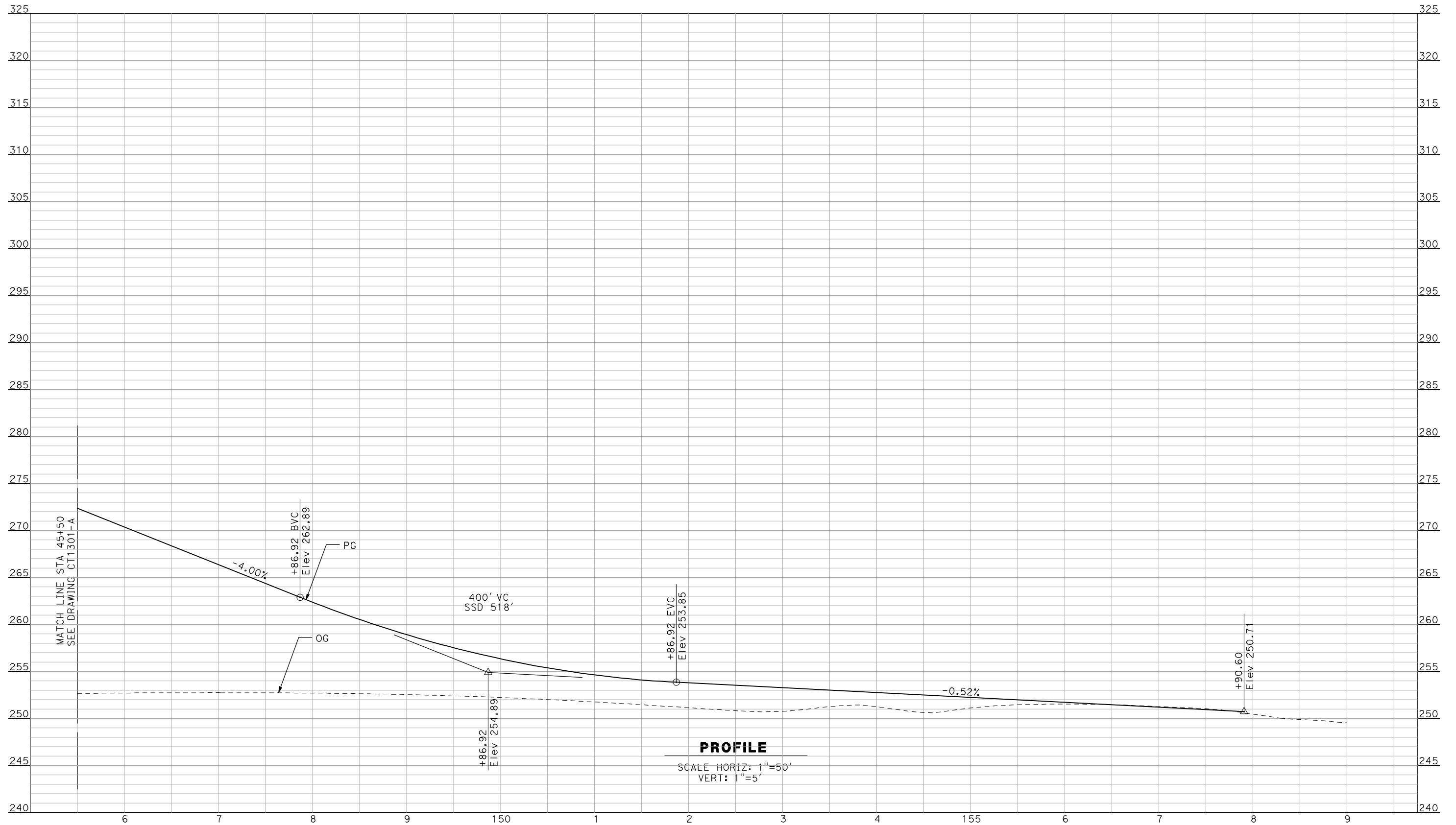
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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.
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A. BOONE
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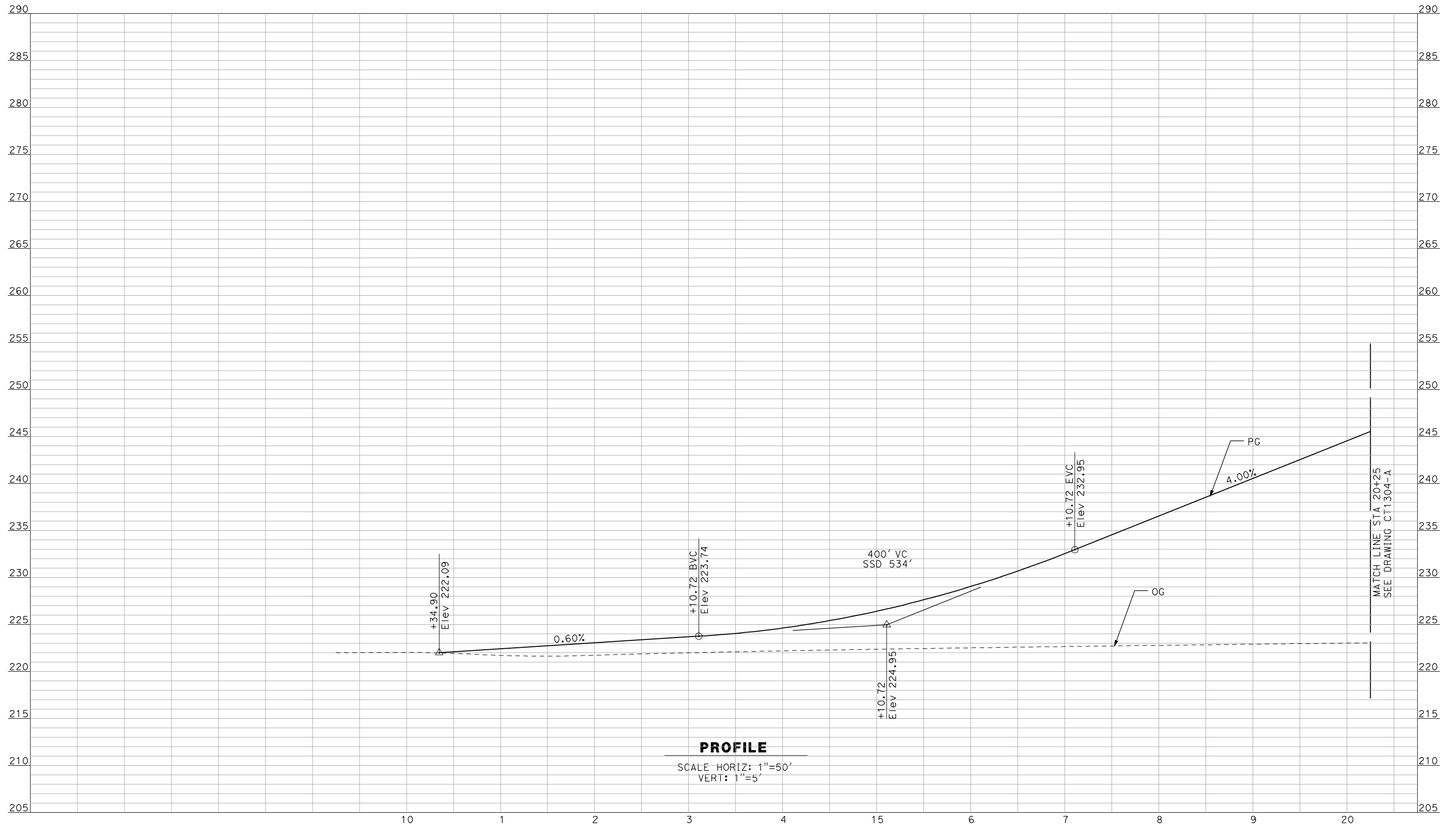
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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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A. BOONE
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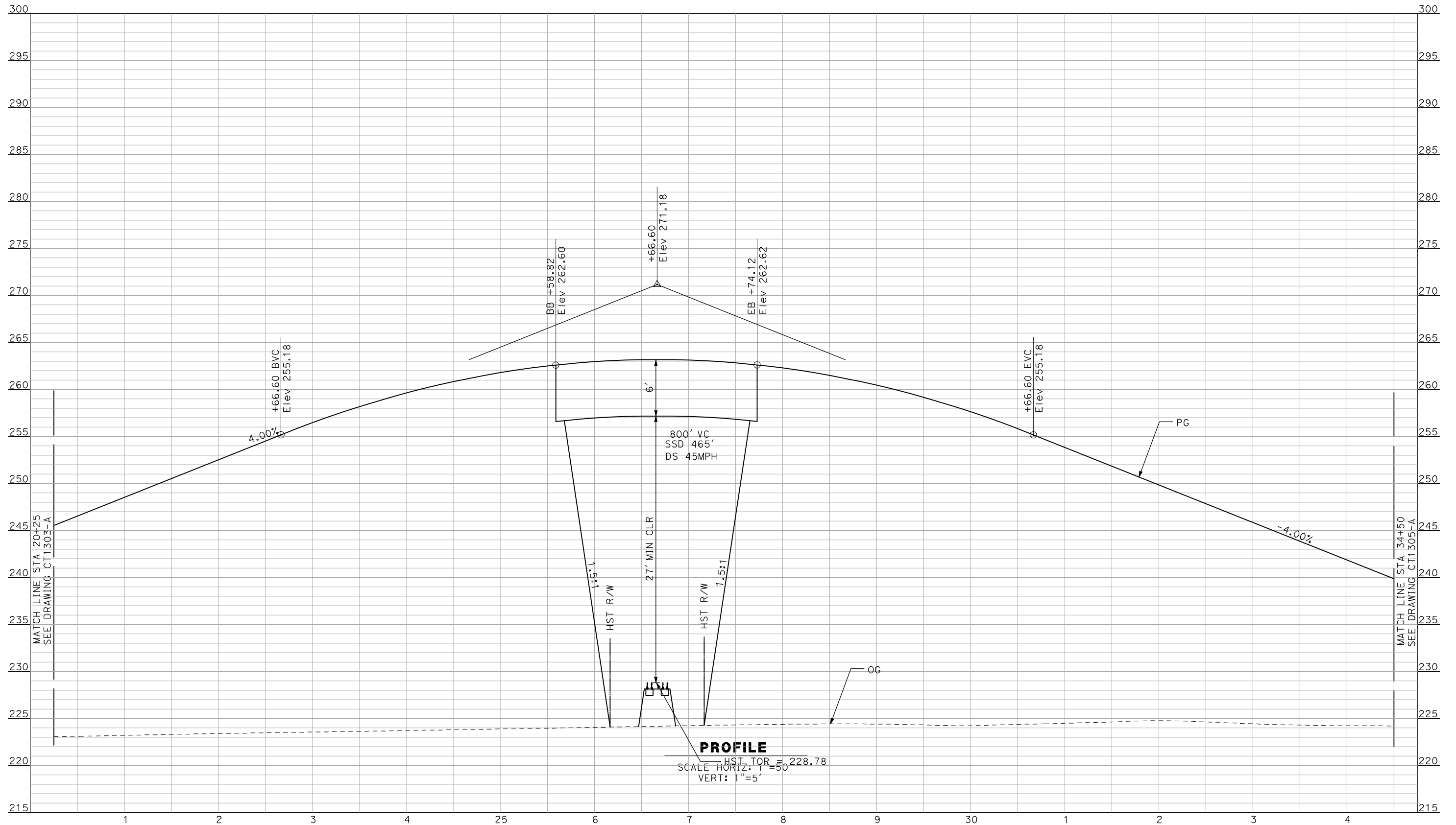
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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



PROFILE
 HST TOR = 228.78
 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

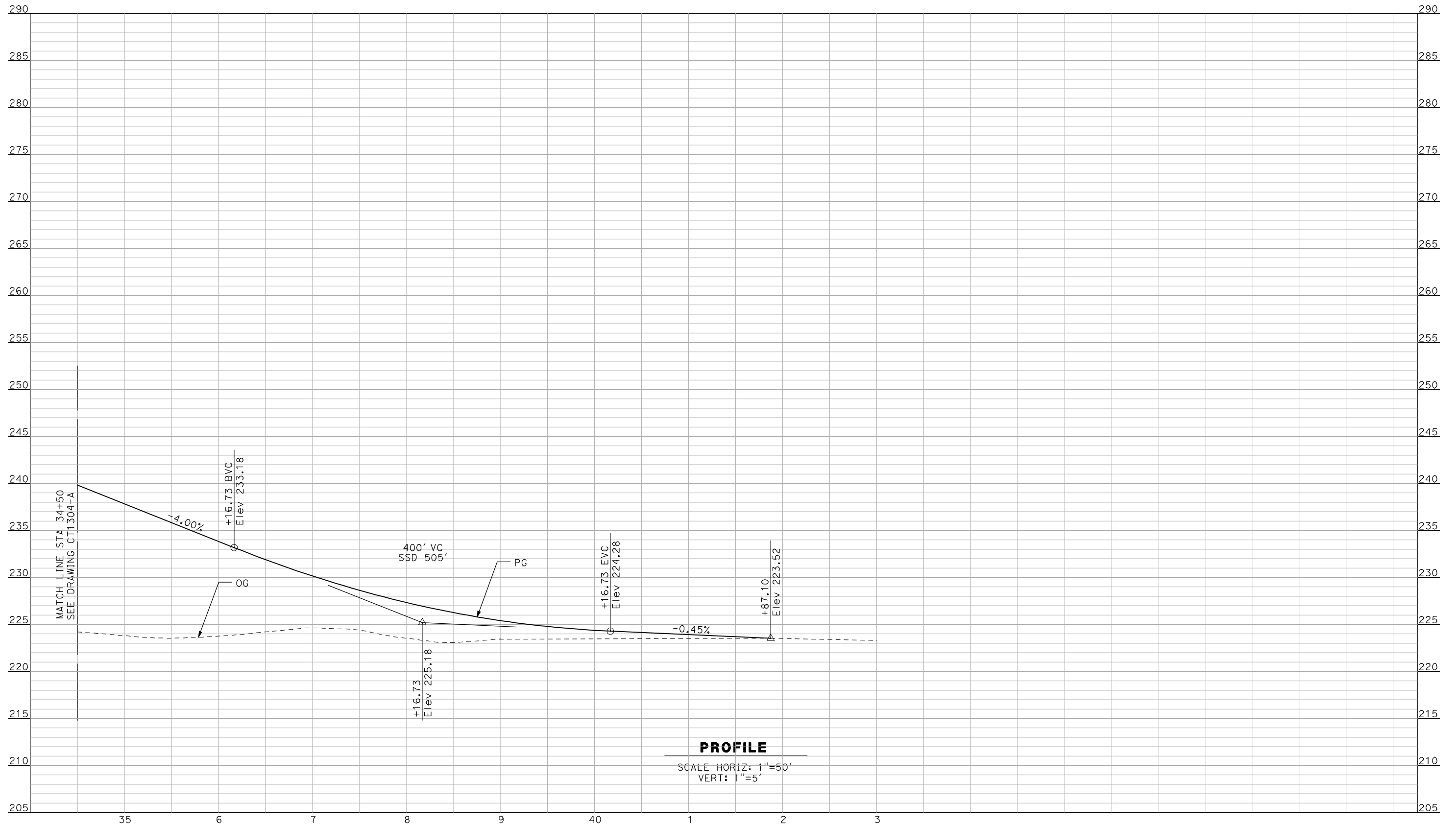
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - PLAINSBURG RD
 PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1304-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
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 A. BOONE
 DATE
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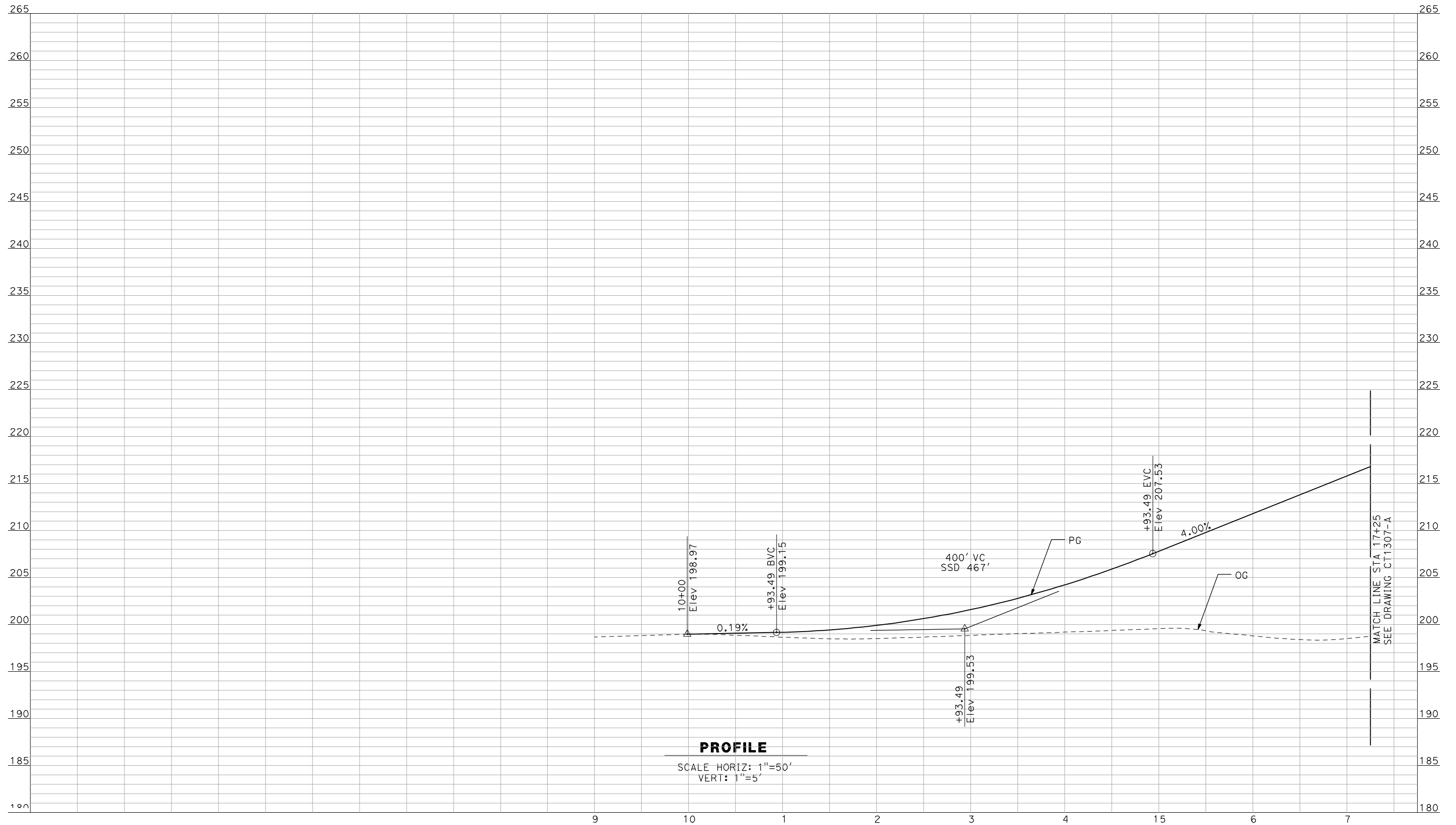
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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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 CHECKED BY
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 A. BOONE
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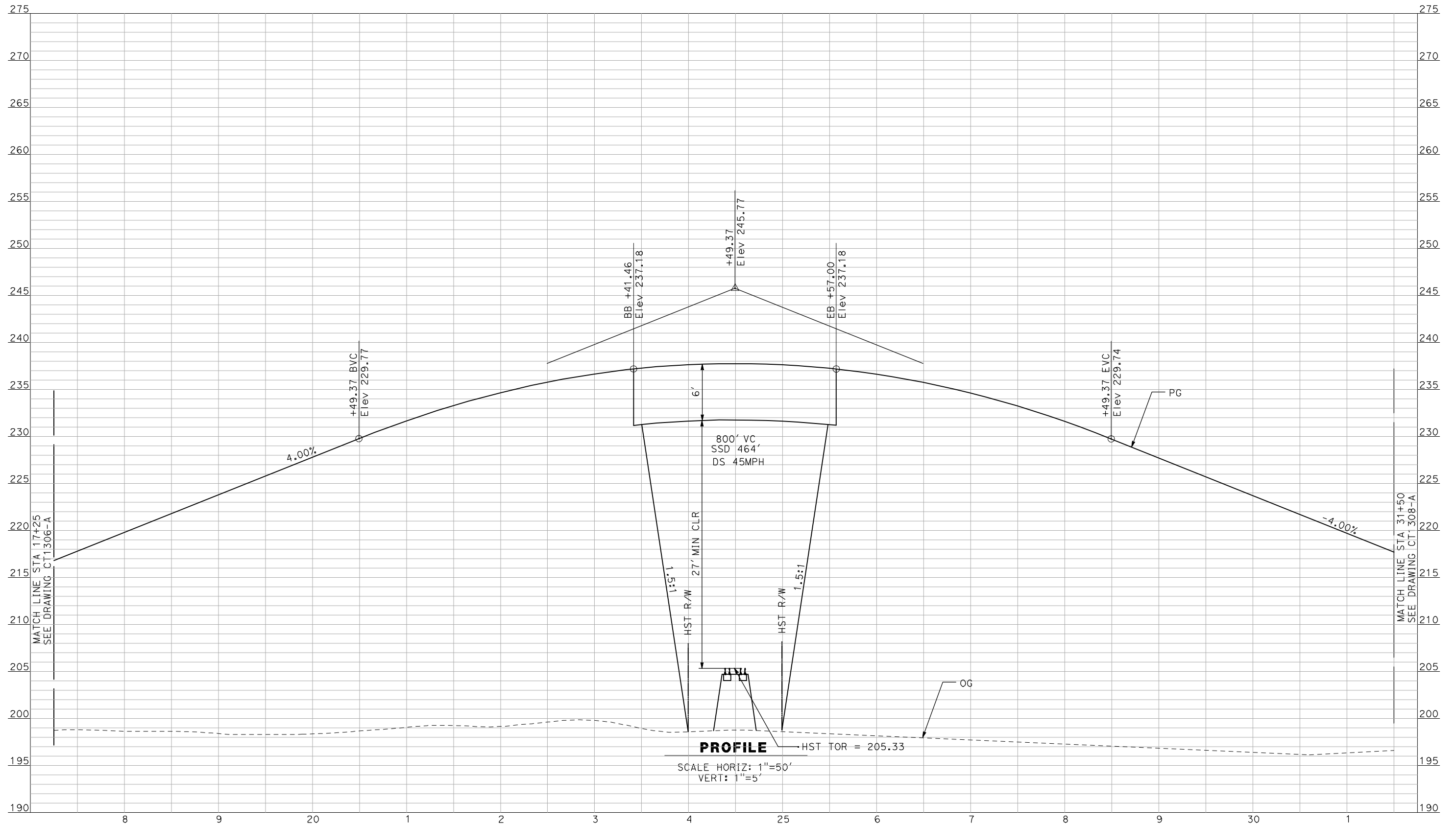
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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 21 WYE
 GRADE SEPARATION - S. ARBOLEDA RD
 PROFILE
 SHEET 2 OF 3

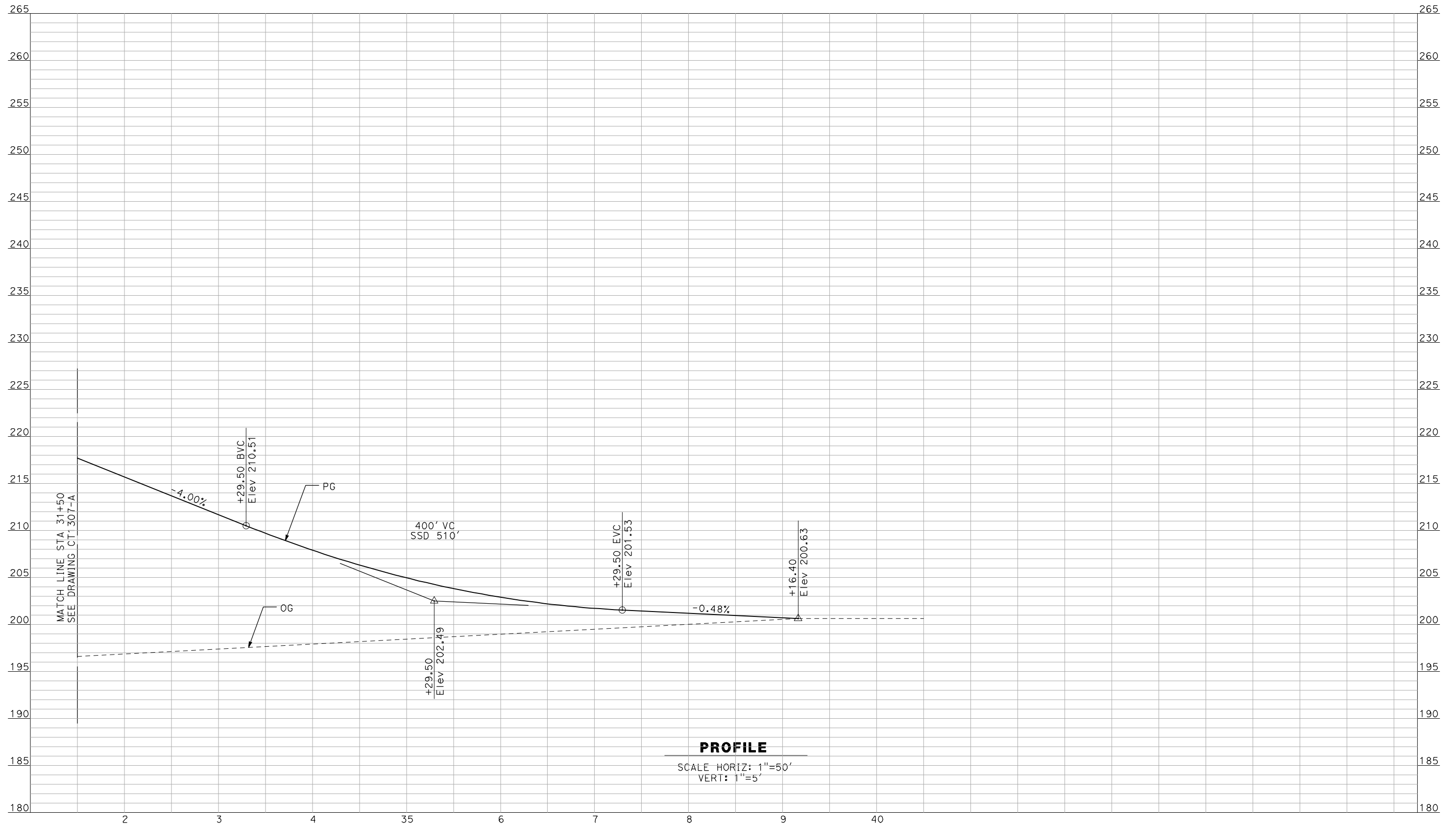
CONTRACT NO.
 HSR06-007

DRAWING NO.
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SCALE
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SHEET NO.
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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

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 IN CHARGE
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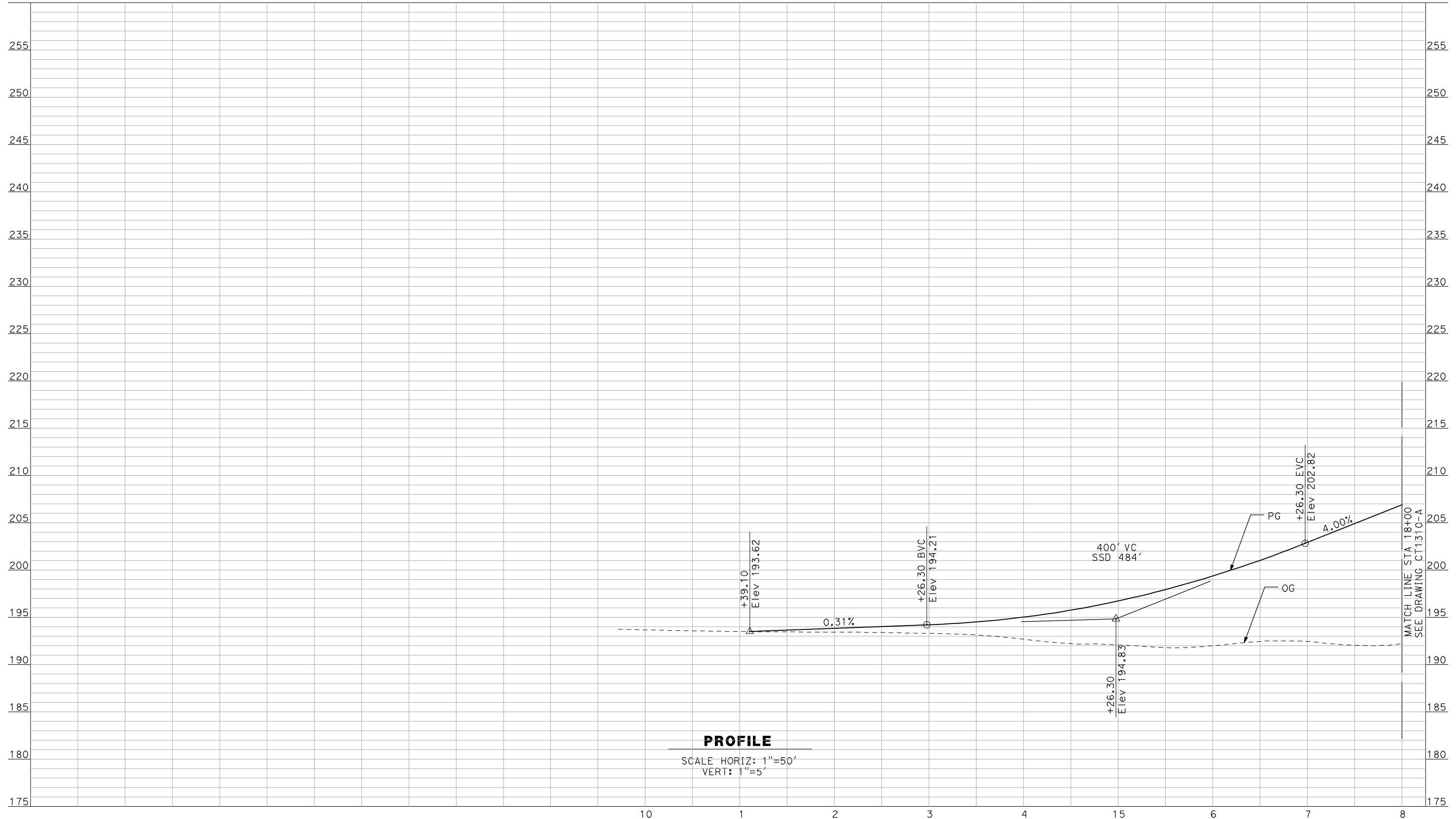


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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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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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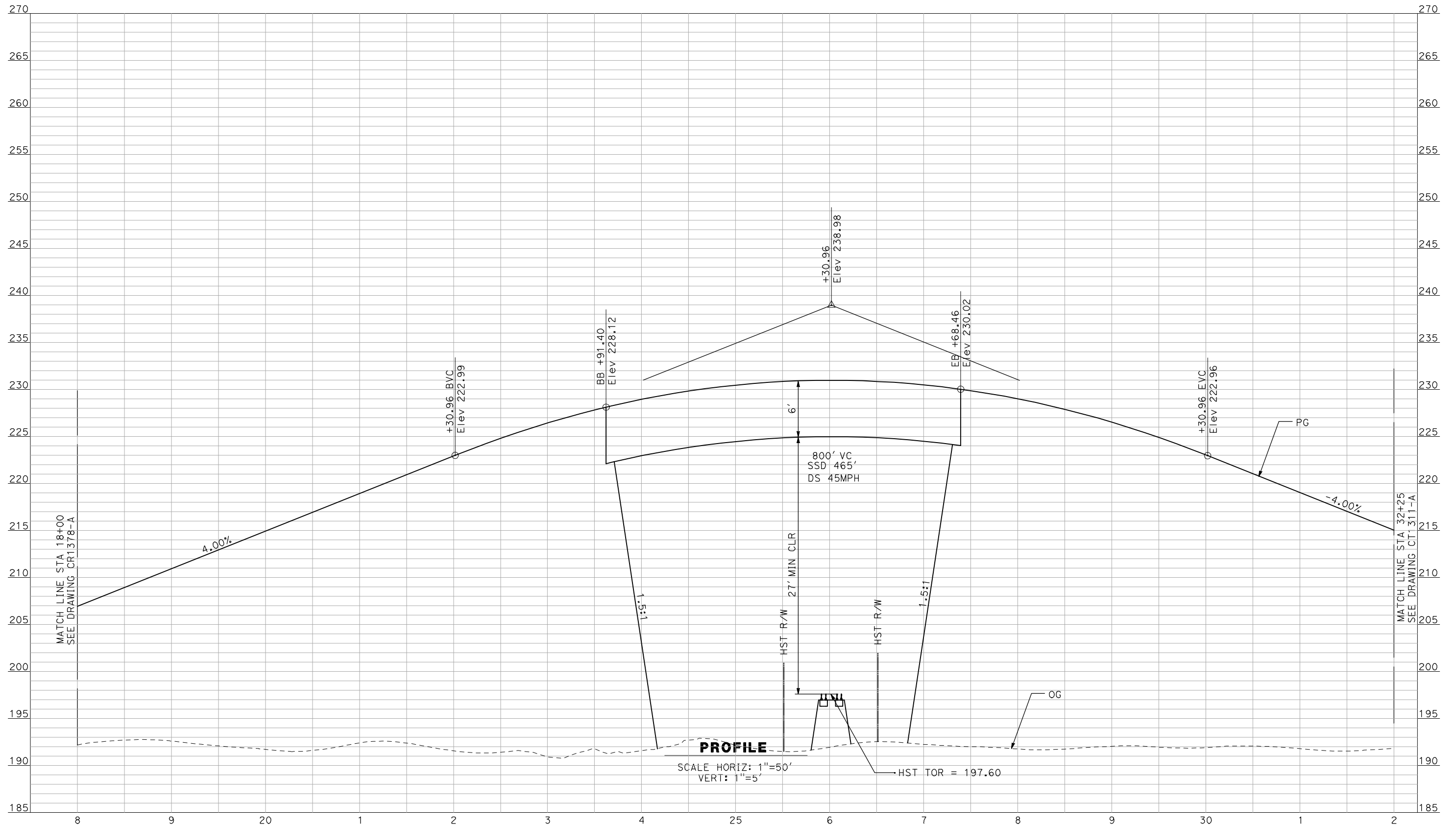
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. ORCHARD DR
 PROFILE
 SHEET 1 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT1309-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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PROFILE
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'
 HST TOR = 197.60

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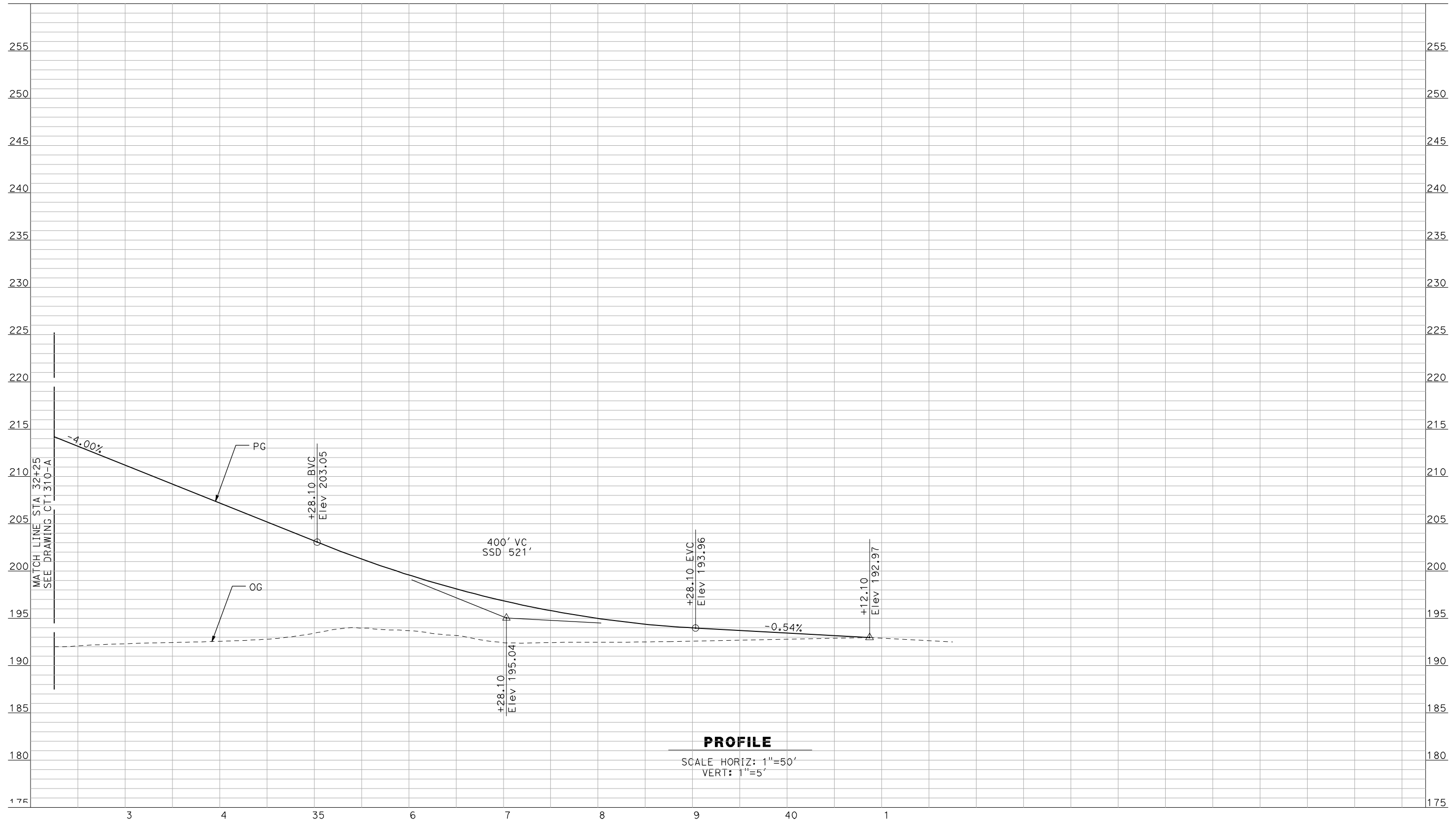
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. ORCHARD DR
PROFILE
 SHEET 2 OF 3

CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT1310-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 WYE
 GRADE SEPARATION - S. ORCHARD DR
 PROFILE
 SHEET 3 OF 3

CONTRACT NO.
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 DRAWING NO.
CT1311-A
 SCALE
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 cisnerose

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 21					
GENERAL					
	SB0101	BNSF MAIN LINE	AVENUE 21	INDEX OF DRAWINGS	SHEET 1 OF 1
	SB0201	BNSF MAIN LINE	AVENUE 21	STRUCTURE INDEX MAP	SHEET 1 OF 2
	SB0202	BNSF MERCED CONNECTION	AVENUE 21	STRUCTURE INDEX MAP	SHEET 2 OF 2
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
	ST1015	BNSF MAIN LINE	AVENUE 21	AVENUE 26 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	PLAINSBURG ROAD OVERHEAD	PLANNING STUDY
	ST1020	BNSF MERCED CONNECTION	AVENUE 21	ARBOLEDA DRIVE OVERHEAD	PLANNING STUDY
	ST1021	BNSF WYE CONNECTION	AVENUE 21	AVENUE 22 OVERHEAD	PLANNING STUDY
	ST1022	BNSF MAIN LINE	AVENUE 21	AVENUE 20 OVERHEAD	PLANNING STUDY
	ST1023	BNSF MAIN LINE	AVENUE 21	AVENUE 20 1/2 OVERHEAD	PLANNING STUDY
	ST1026	BNSF MAIN LINE	AVENUE 21	ROAD 20 OVERHEAD	PLANNING STUDY
	ST1027	BNSF MAIN LINE	AVENUE 21	ROAD 18 1/2 OVERHEAD	PLANNING STUDY
	ST1028	BNSF MAIN LINE	AVENUE 21	ROAD 16 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
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

SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE LINE 6
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	PLAINSBURG 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	PLAINSBURG 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

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

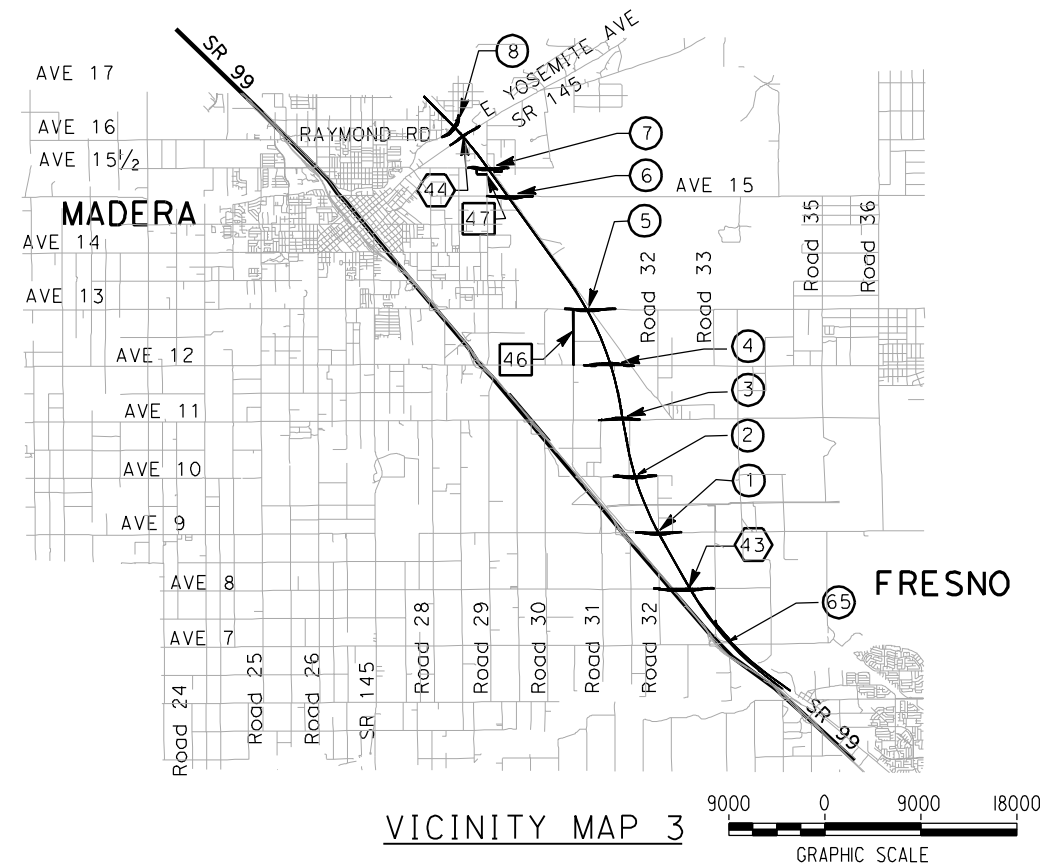
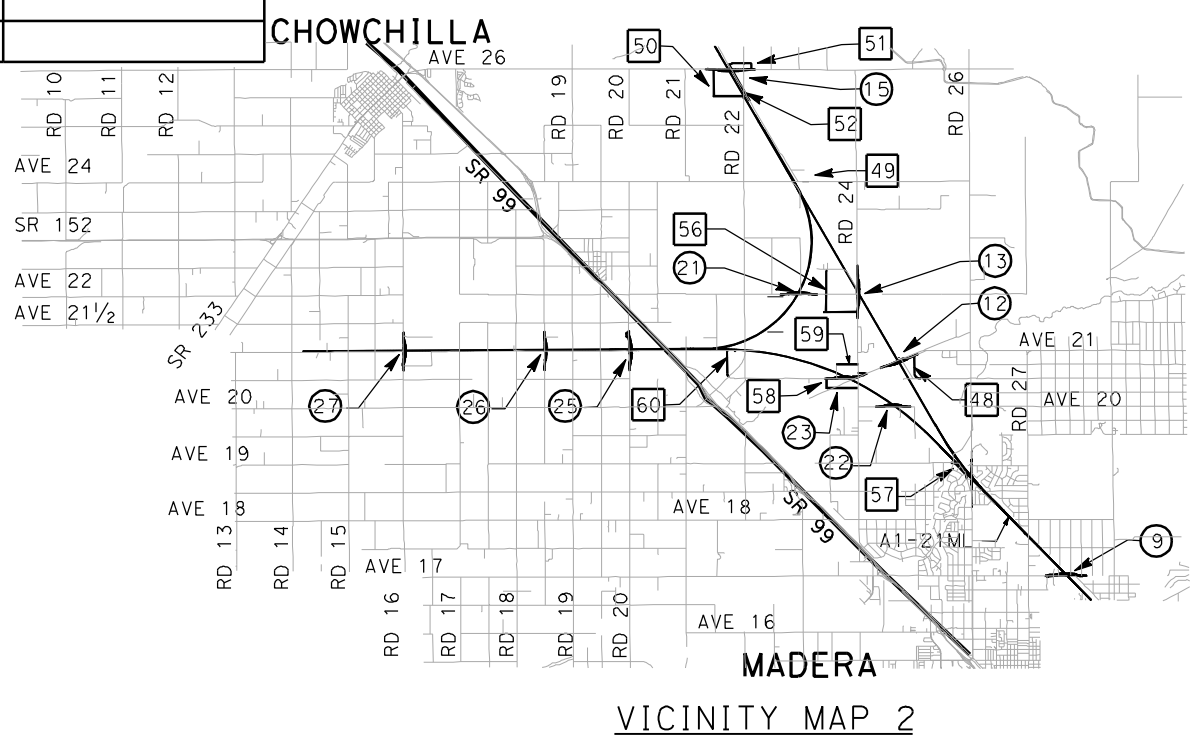
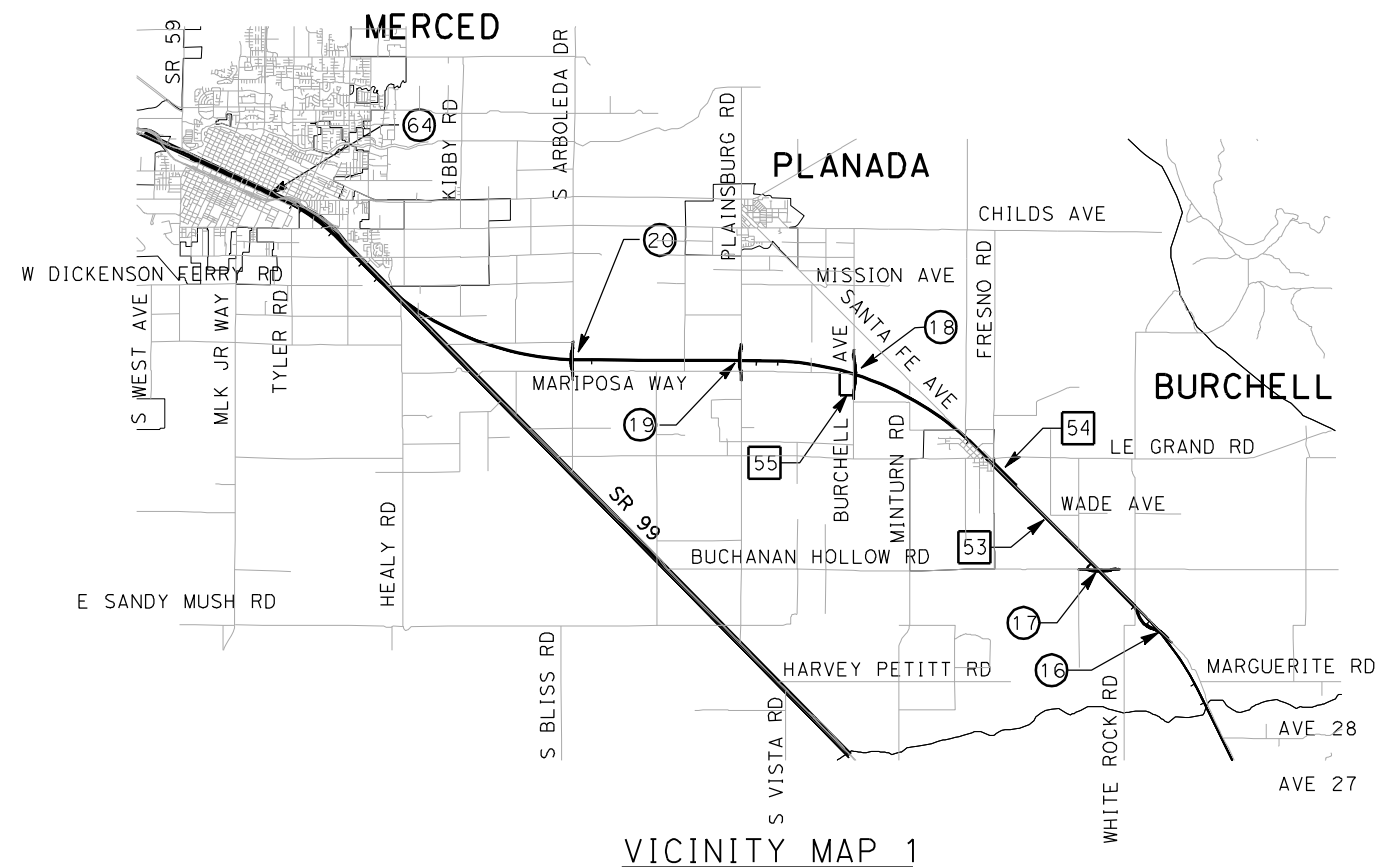


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE
 AVENUE 21
 INDEX OF DRAWINGS
 SHEET 1 OF 1

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 15½ 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
15	AVENUE 26 OVERHEAD	ST1015	CT0044-A - CT0047-A
16	SANTA FE DRIVE OVERHEAD	ST1016	CT0048-A - CT0050-A
17	BUCHANAN HOLLOW 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
21	AVENUE 22 OVERHEAD	ST1021	CT0063-A - CT0065-A
22	AVENUE 20 OVERHEAD	ST1022	CT0066-A - CT0068-A
23	AVENUE 20½ OVERHEAD	ST1023	CT0069-A - CT0071-A
25	ROAD 20 OVERHEAD	ST1026	CT0076-A - CT0078-A
26	ROAD 18½ OVERHEAD	ST1027	CT0079-A - CT0081-A
27	ROAD 16 OVERHEAD	ST1028	CT0082-A - CT0084-A
65	AVENUE 7 OVERHEAD	ST1070	
64	G STREET OVERHEAD	ST1180	



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

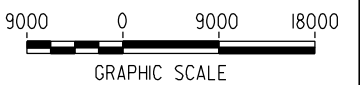
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



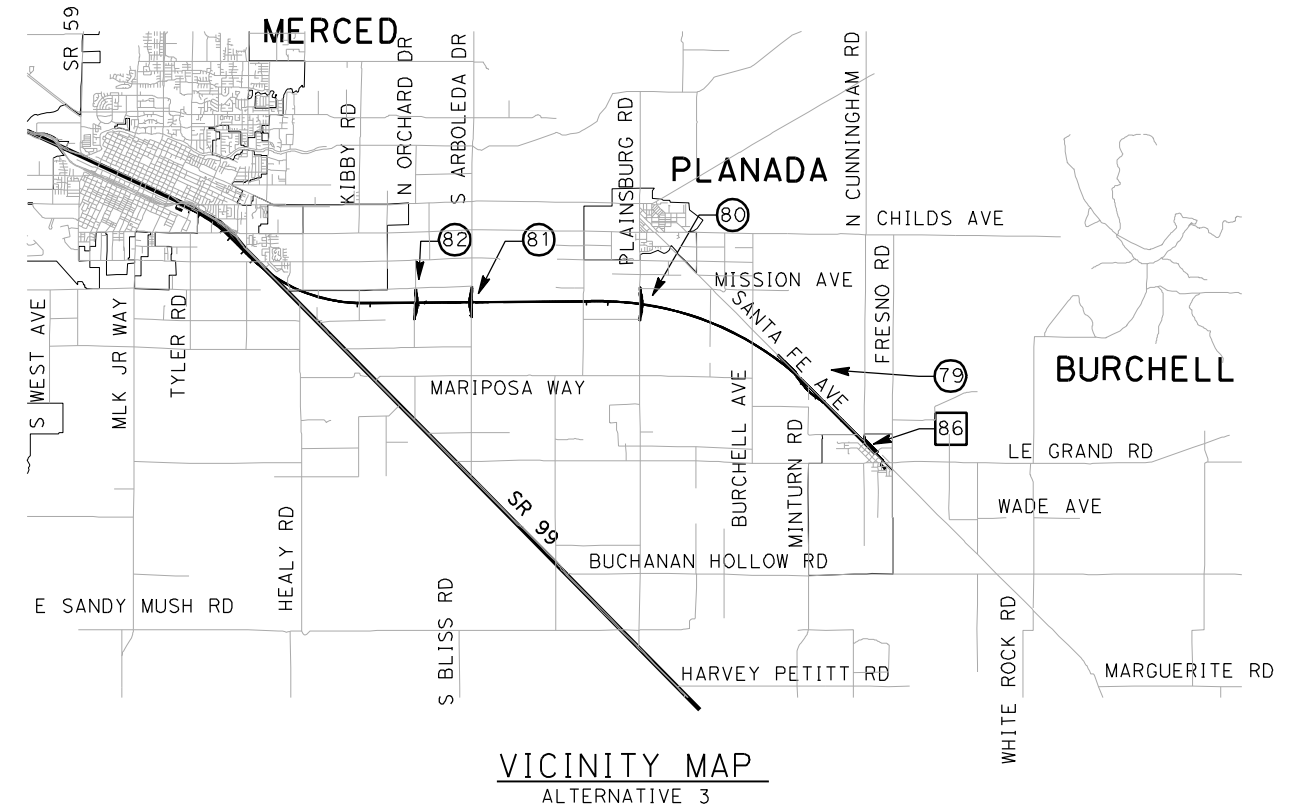
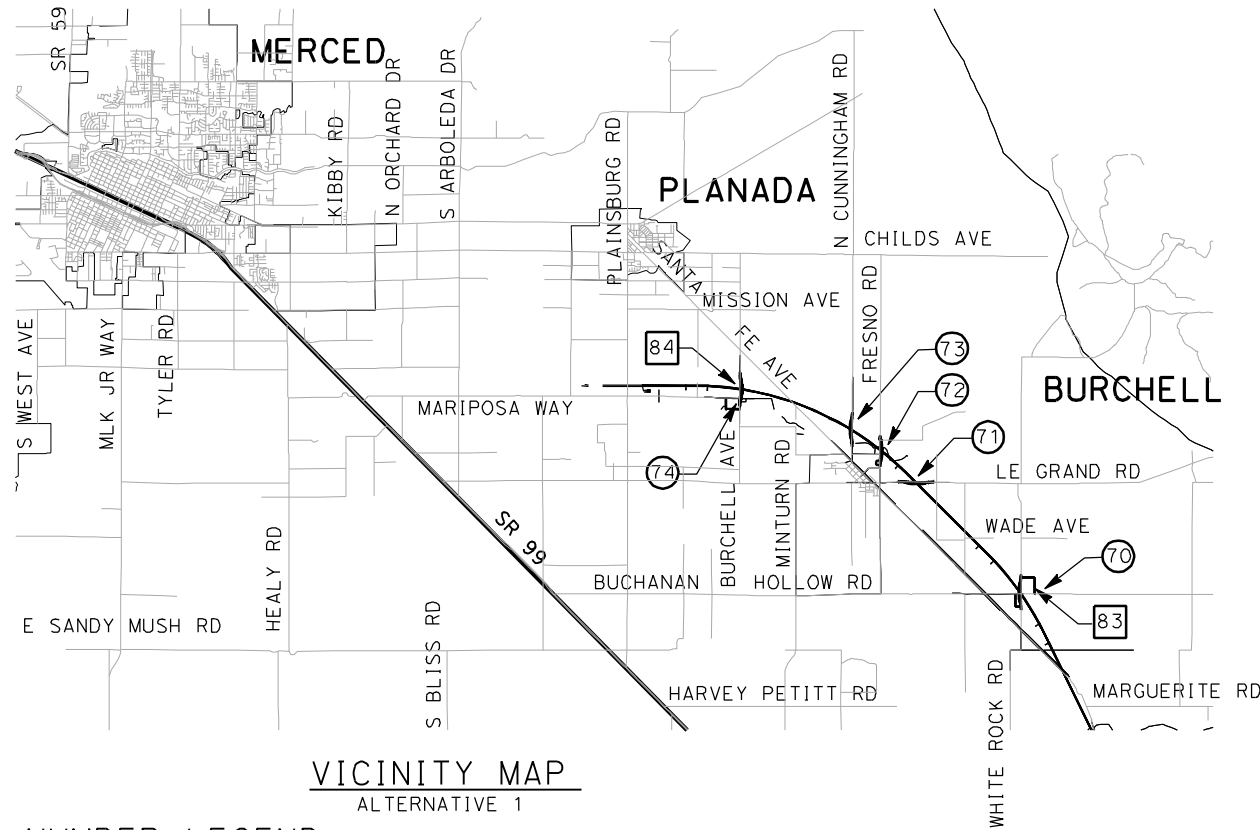
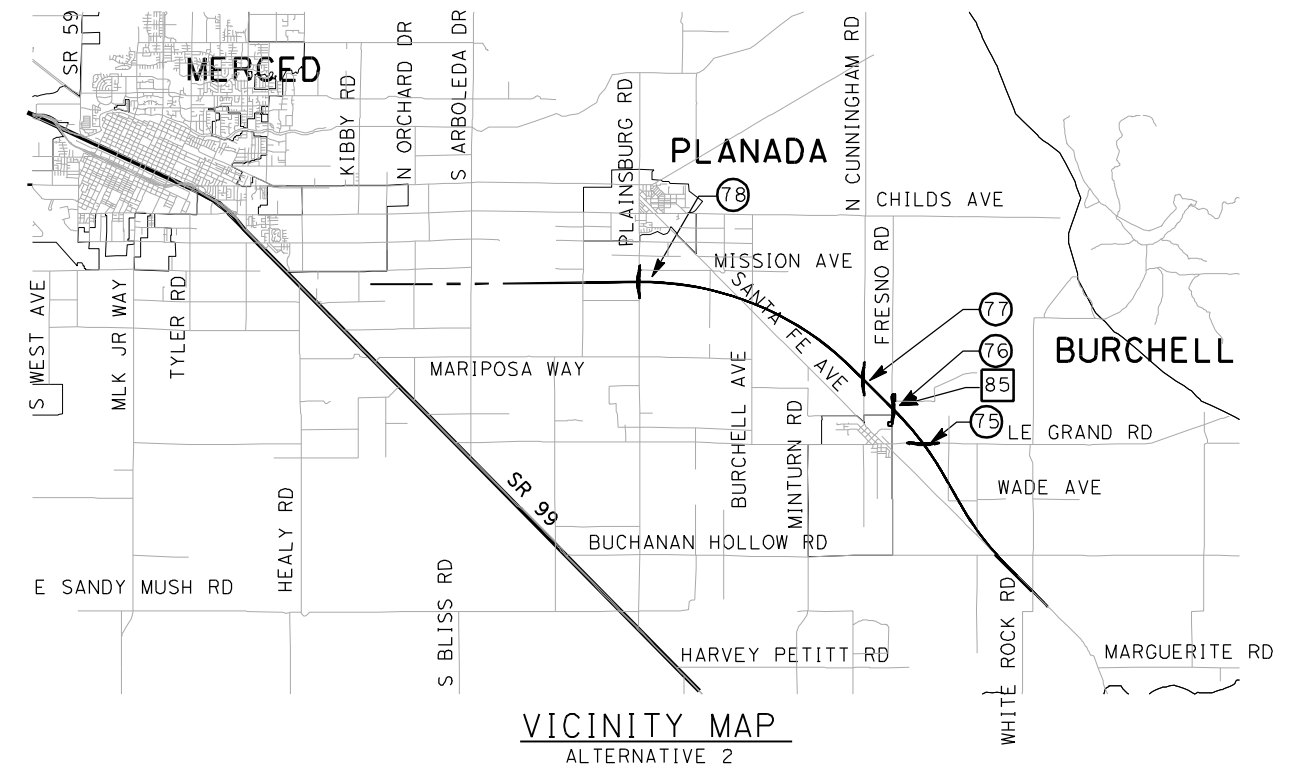
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
STRUCTURE INDEX MAP
SHEET 1 OF 2

CONTRACT NO.
HSR06-007
DRAWING NO.
SB0201
SCALE
As shown
SHEET NO.
OF



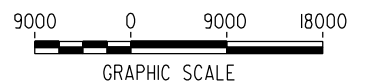
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LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
70	WHITE ROCK ROAD OVERHEAD	ST1050	CT0200-A - CT0202-A
71	LE GRAND ROAD OVERHEAD	ST1051	CT0203-A - CT0205-A
72	FRESNO ROAD OVERHEAD	ST1052	CT0206-A - CT0208-A
73	CUNNINGHAM ROAD OVERHEAD	ST1053	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 DRIVE 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

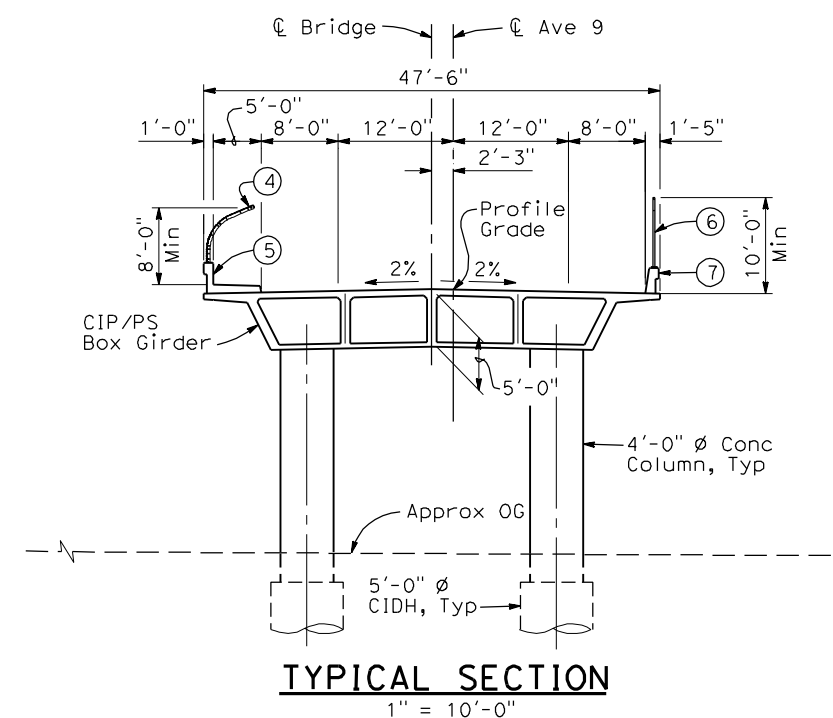
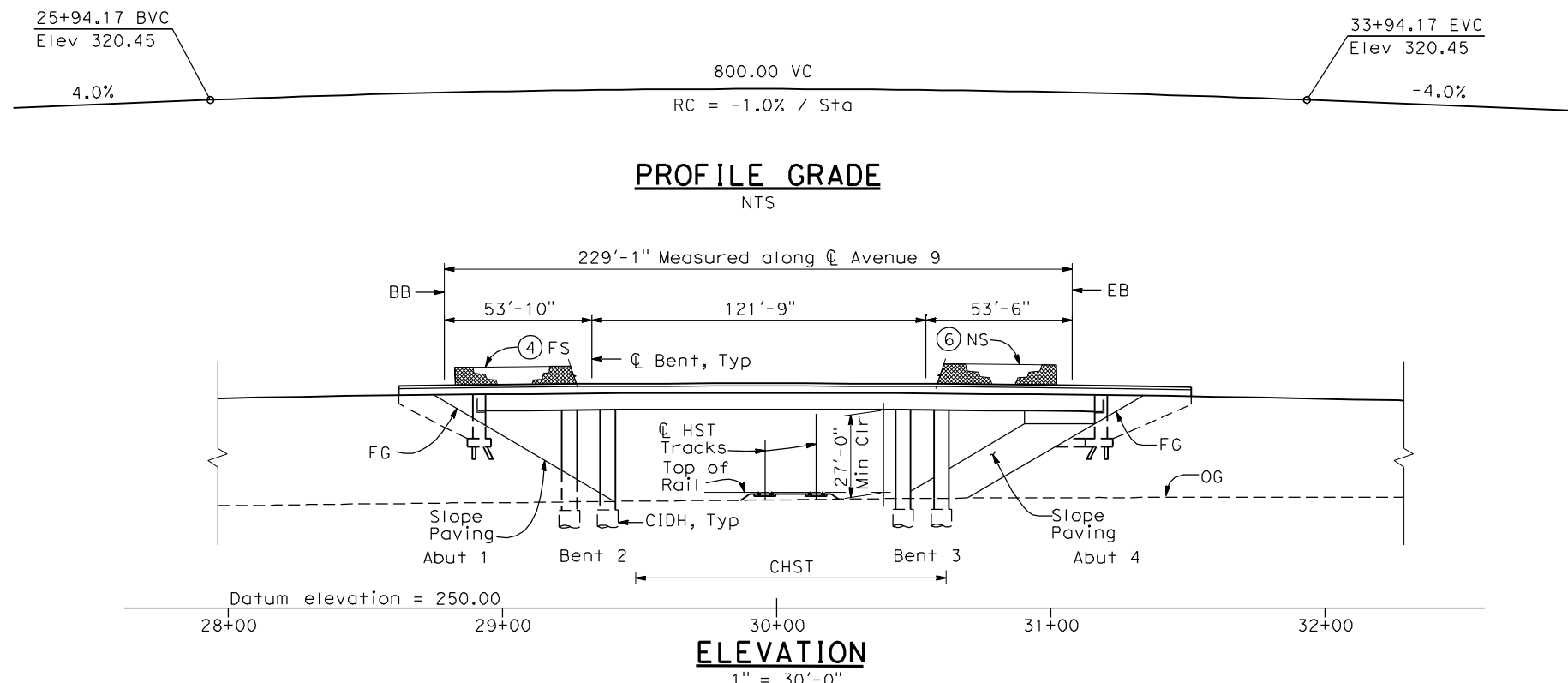
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 21
STRUCTURE INDEX MAP
SHEET 2 OF 2

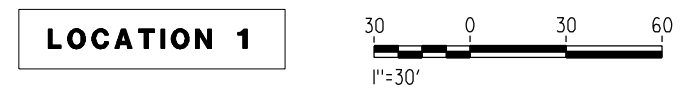
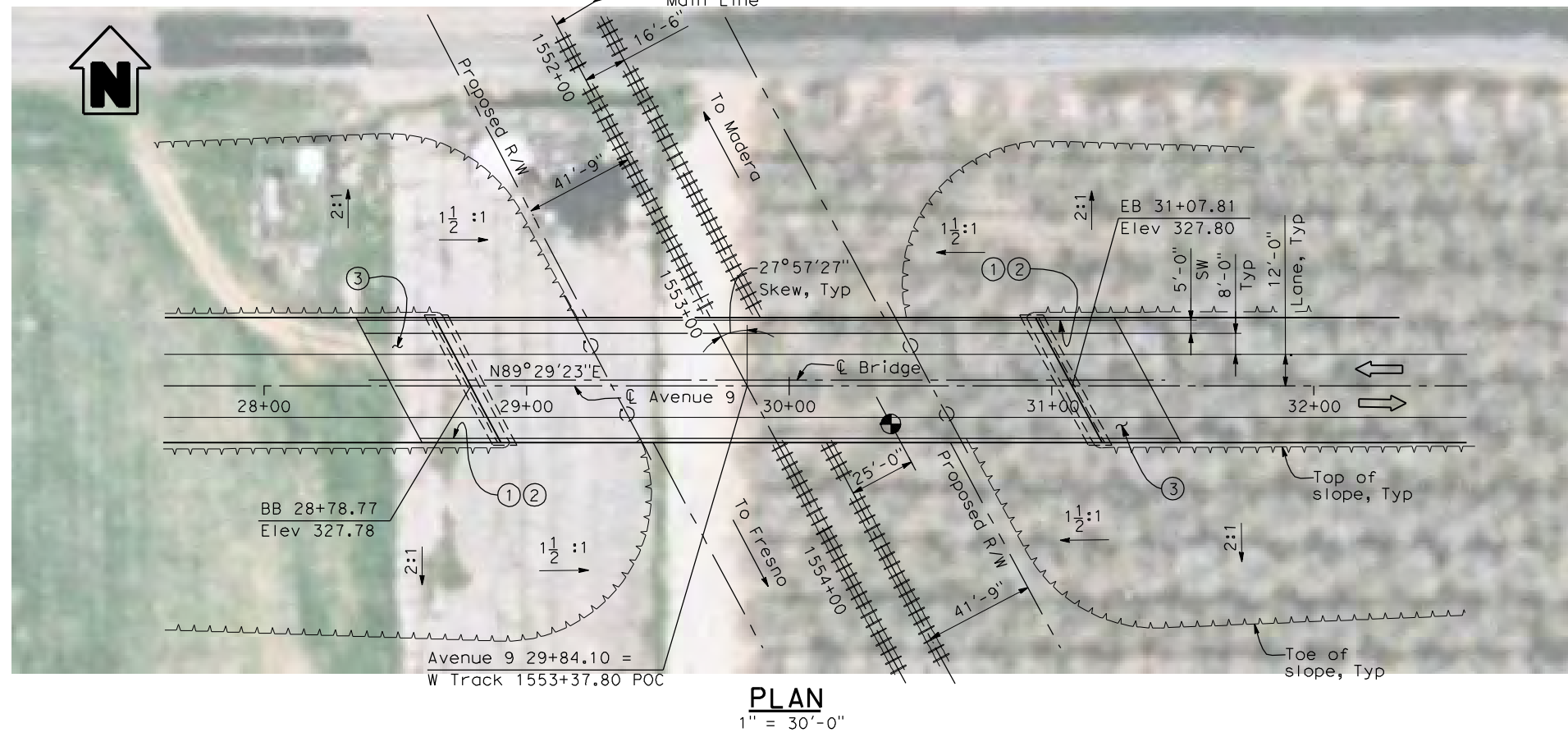
CONTRACT NO.	HSR06-007
DRAWING NO.	SB0202
SCALE	As shown
SHEET NO.	OF



- 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	=	



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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

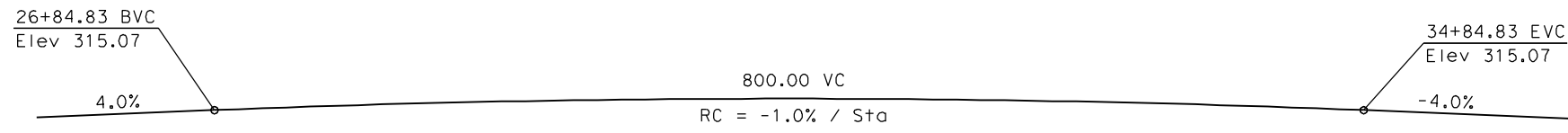
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

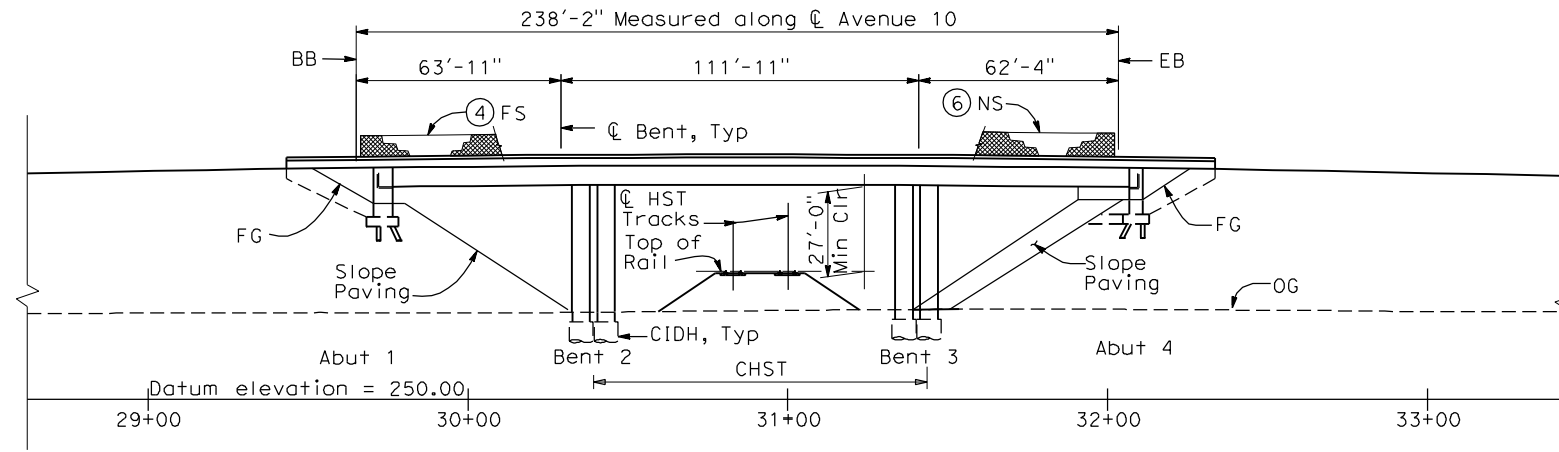


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 9 OVERHEAD
PLANNING STUDY

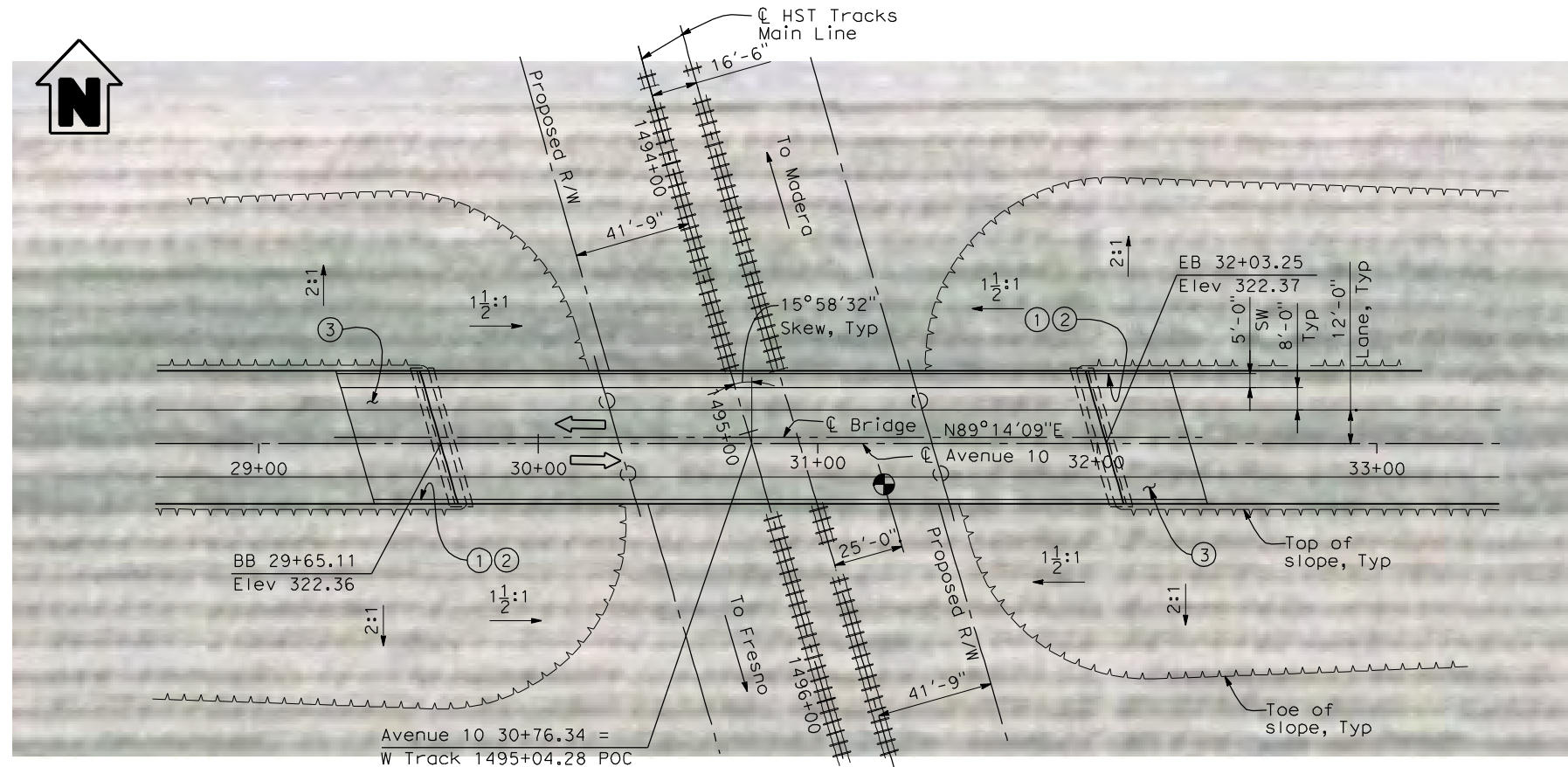
CONTRACT NO.	HSR06-007
DRAWING NO.	ST1001
SCALE	As shown
SHEET NO.	OF



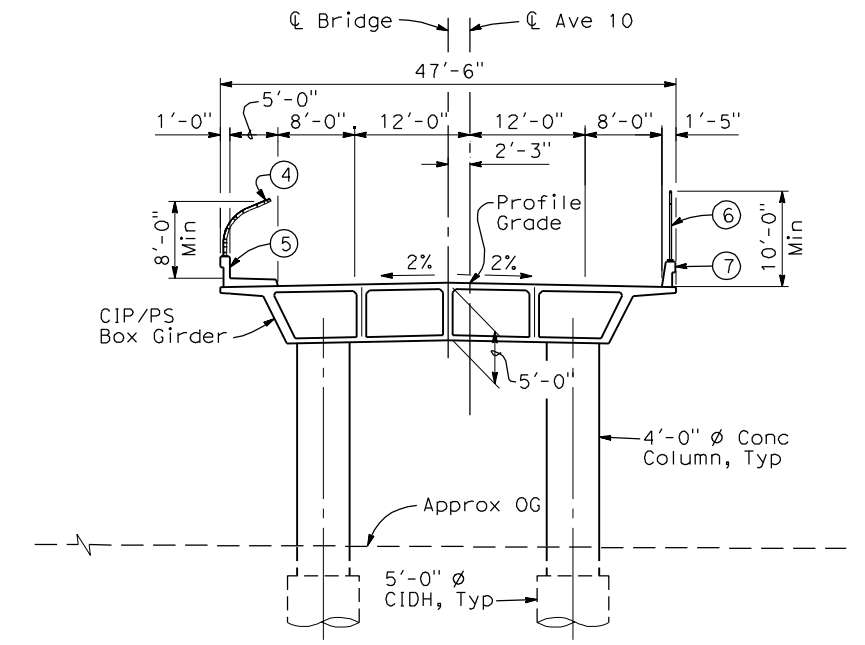
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

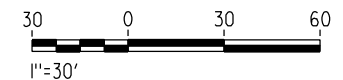
- ① Paint "Bridge No. XX-XX"
- ② Paint "Avenue 10 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
- 8 Bearing of Avenue 10 to be determined.
- 9 Existing underground and overhead 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/CFE INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____

LOCATION 2



4/30/2011 5:00:05 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

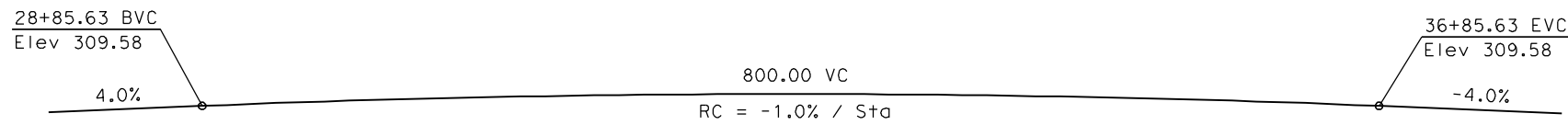
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

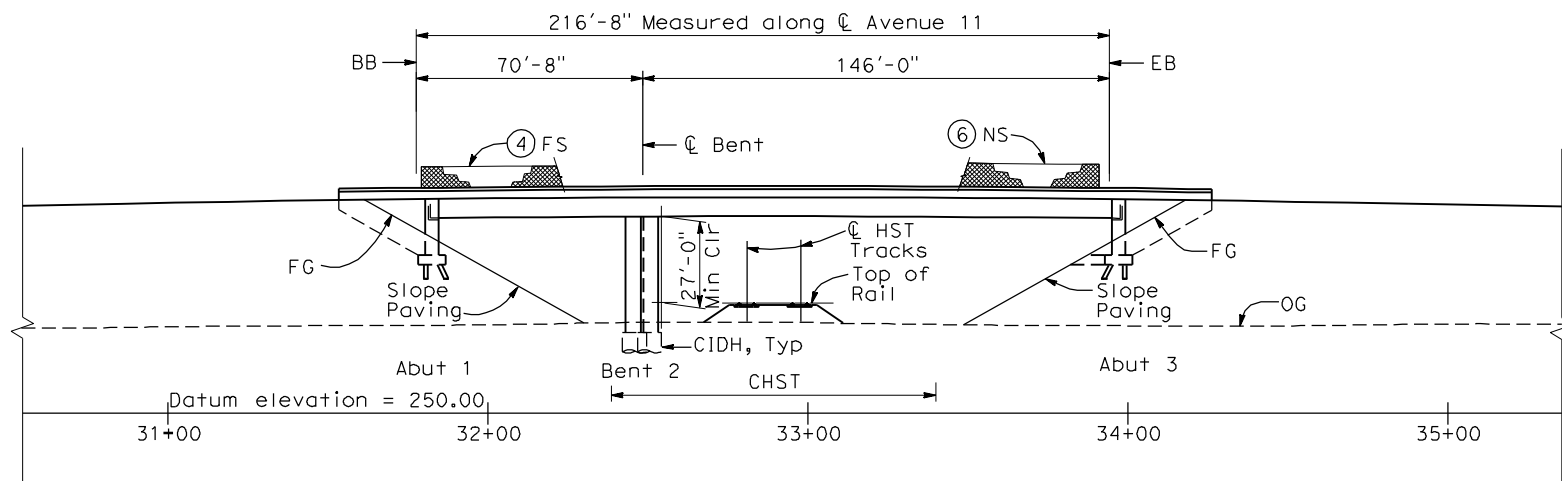
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 10 OVERHEAD
PLANNING STUDY

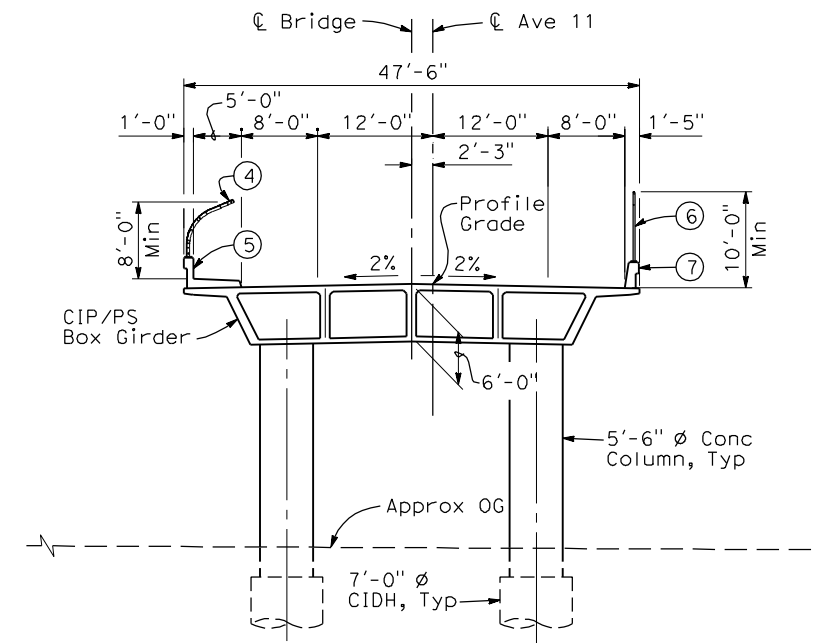
CONTRACT NO.	HSR06-007
DRAWING NO.	ST1002
SCALE	As shown
SHEET NO.	OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

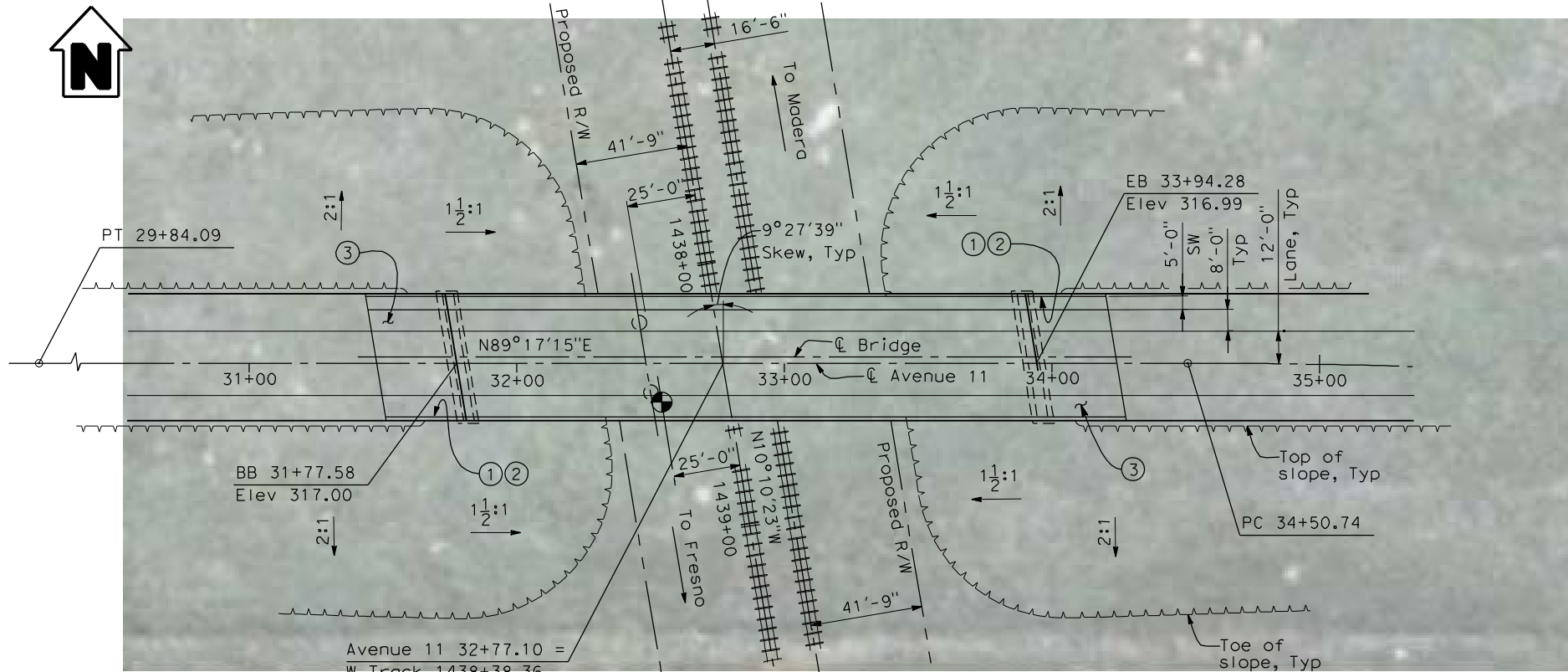
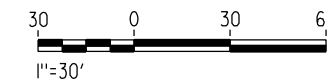
- ① Paint "Bridge No. XX-XX"
- ② Paint "Avenue 11 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
- 8 Bearing of Avenue 11 to be determined.
- 9 Existing underground and overhead 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 5:19:24 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_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

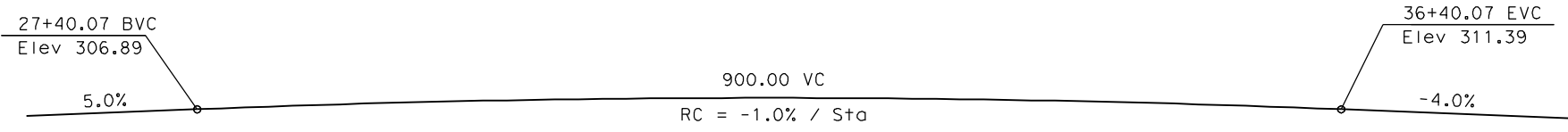
**NOT FOR
CONSTRUCTION**



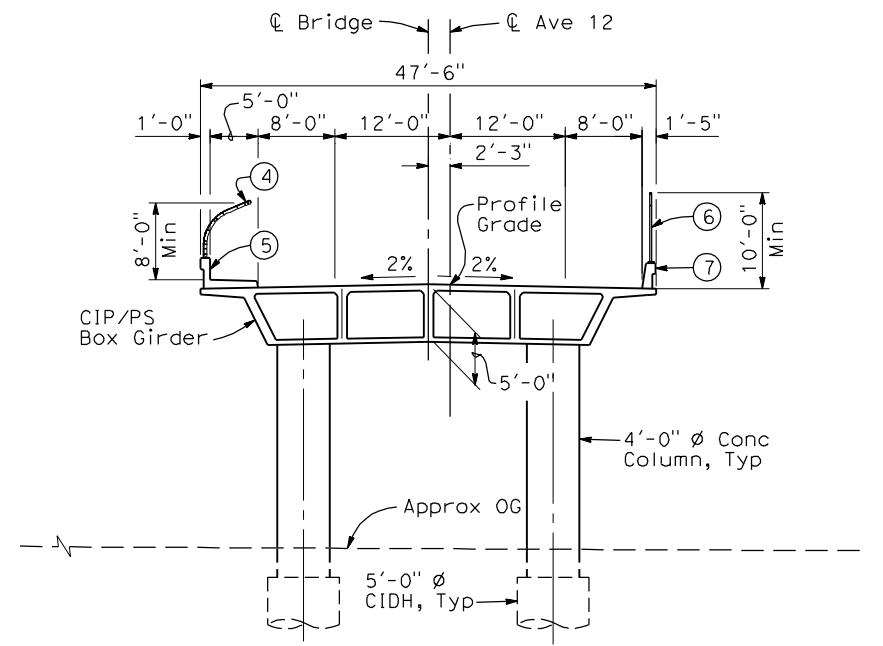
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 11 OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1003
SCALE
As shown
SHEET NO.
OF

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PROFILE GRADE
NTS



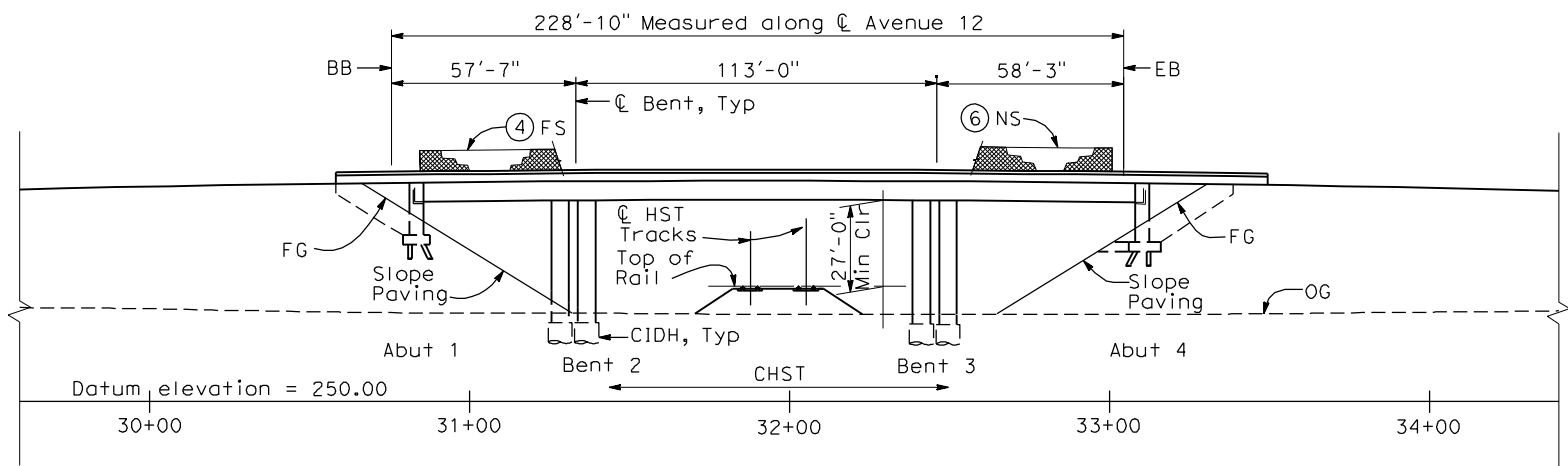
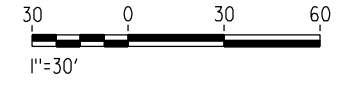
TYPICAL SECTION
1" = 10'-0"

- 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.

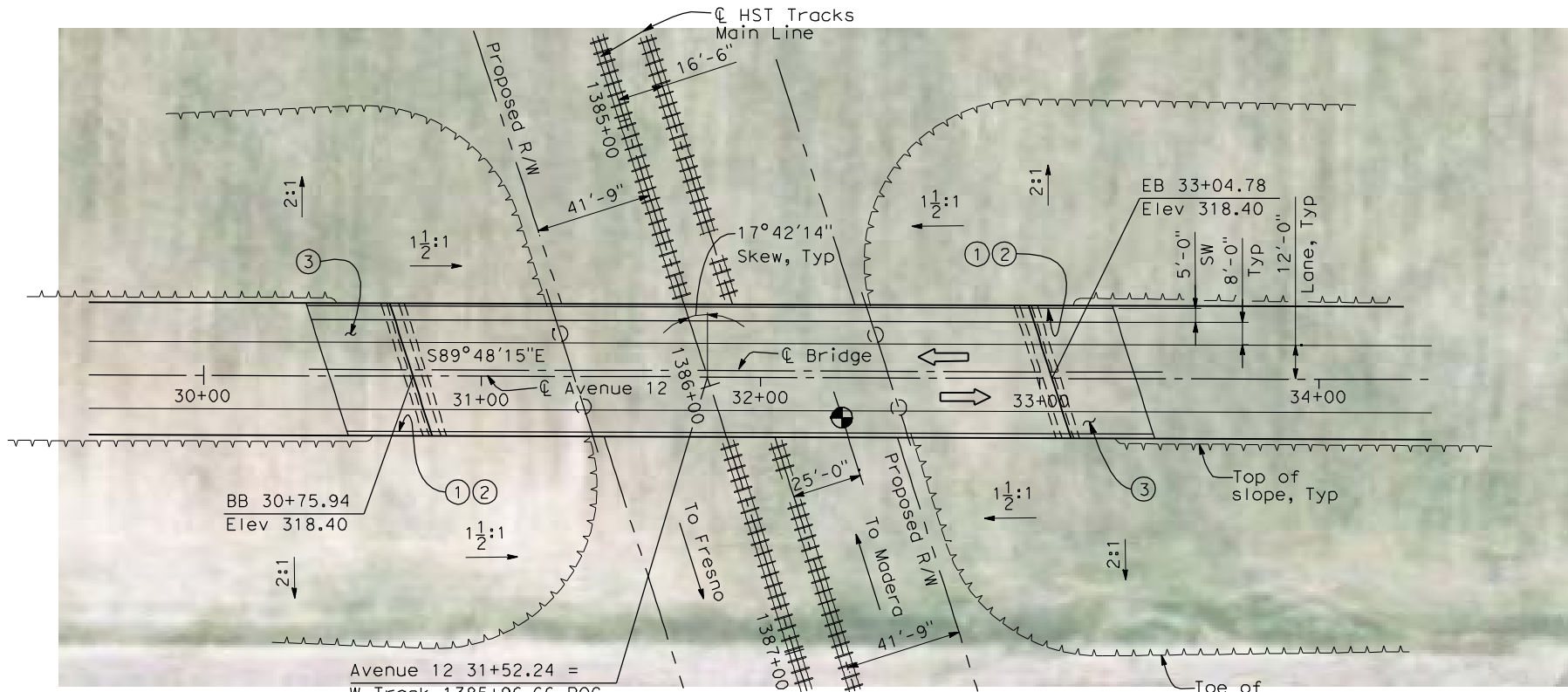
- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	228'-10"
WIDTH	=	47'-6"
AREA	=	10,870 ft ²
COST/ØFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 4



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"

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

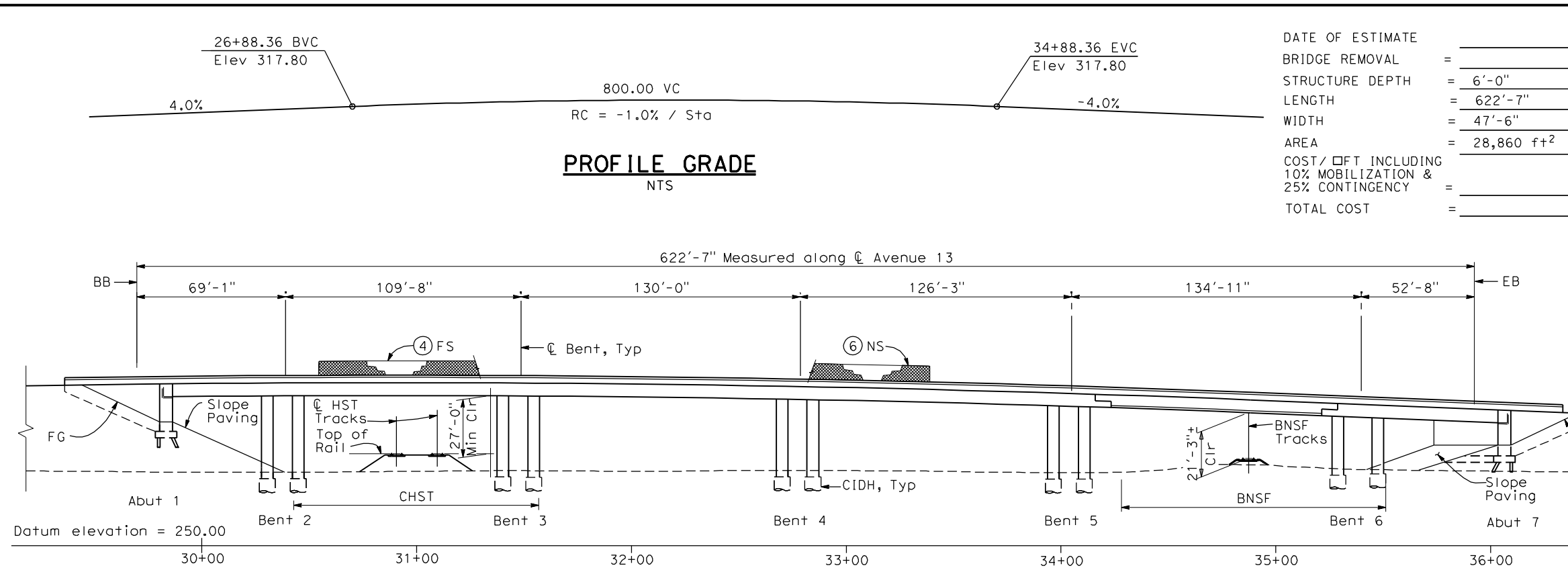
NOT FOR CONSTRUCTION



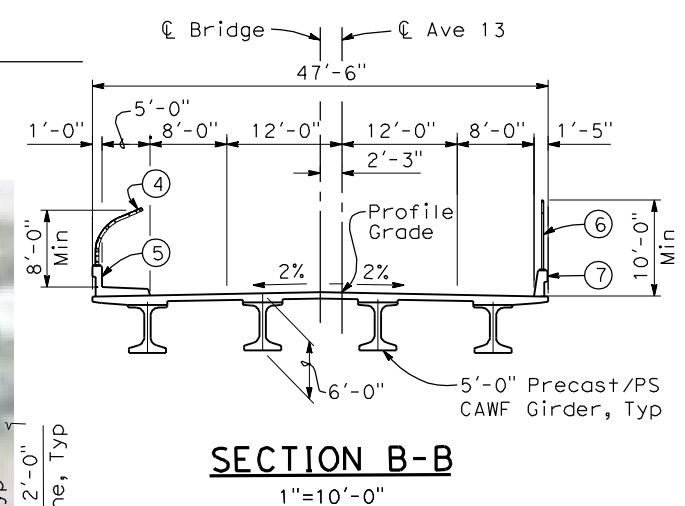
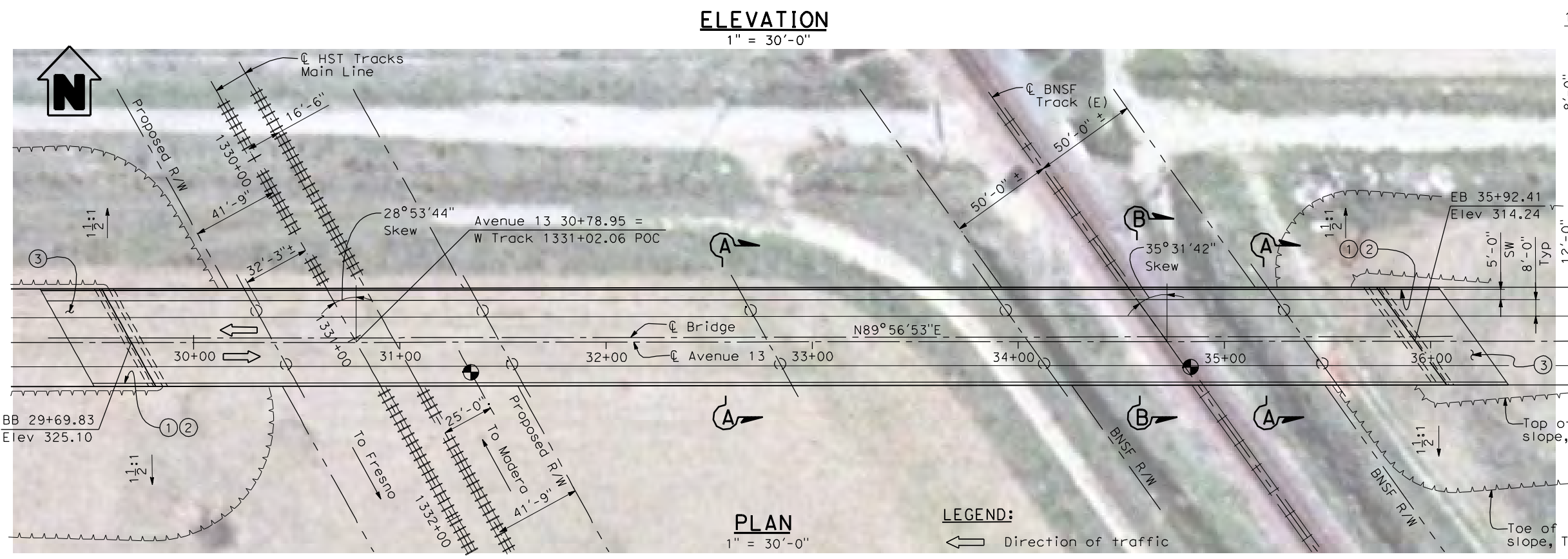
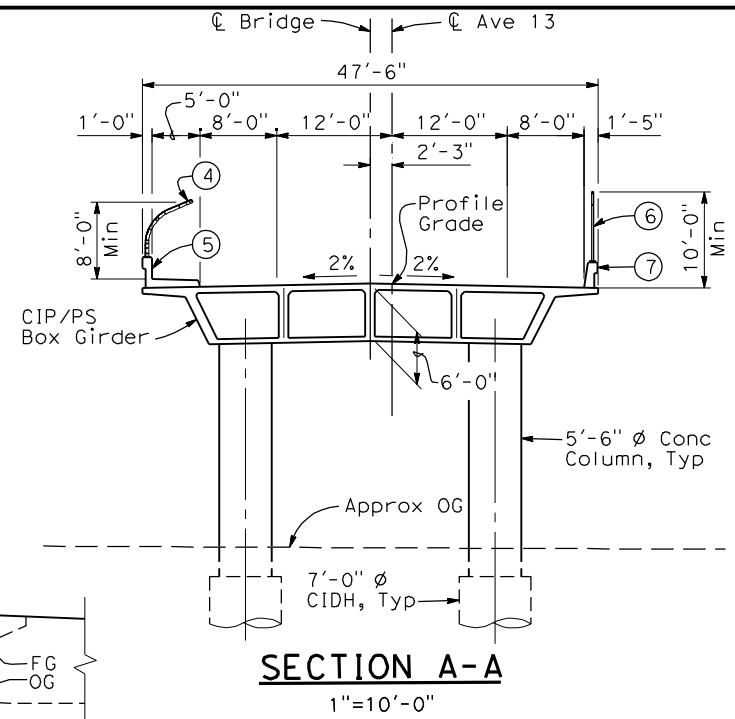
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 12 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1004
SCALE	As shown
SHEET NO.	OF

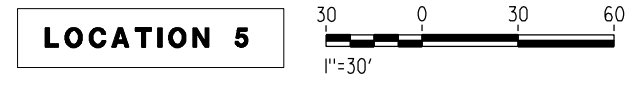
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DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	622'-7"
WIDTH	=	47'-6"
AREA	=	28,860 ft ²
COST/CFRT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



- 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.



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

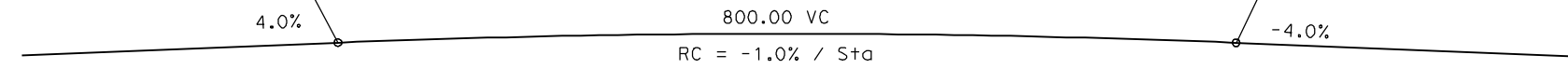


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 13 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1005
SCALE	As shown
SHEET NO.	OF

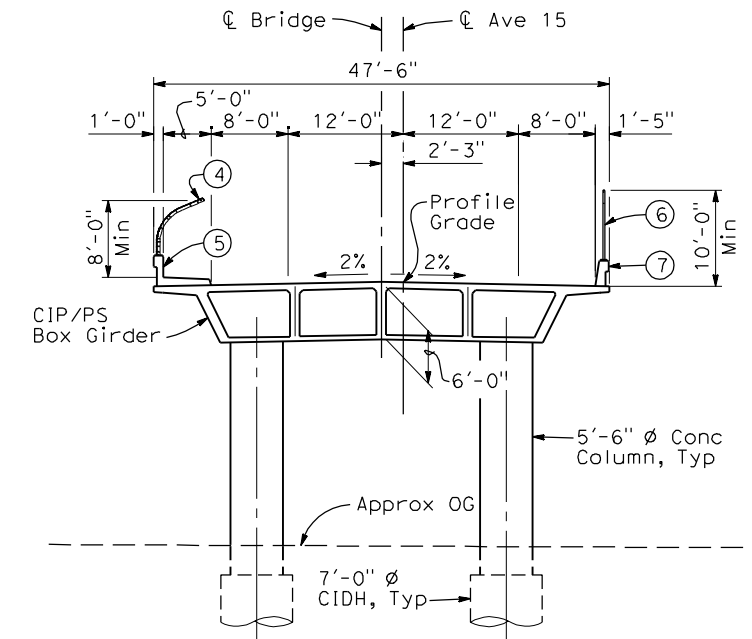
26+78.95 BVC
Elev 324.85

34+78.95 EVC
Elev 324.85

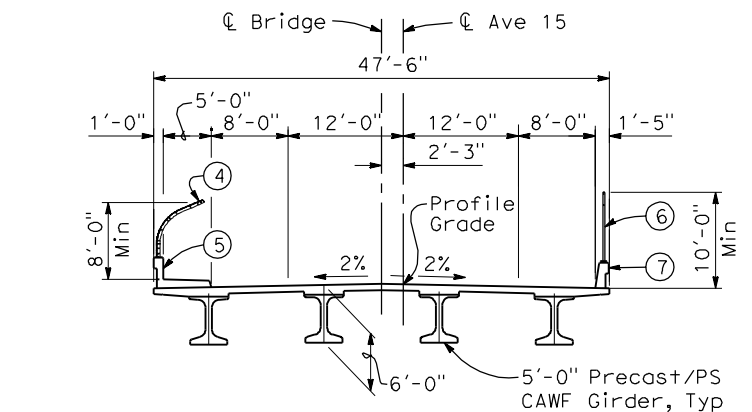


PROFILE GRADE
NTS

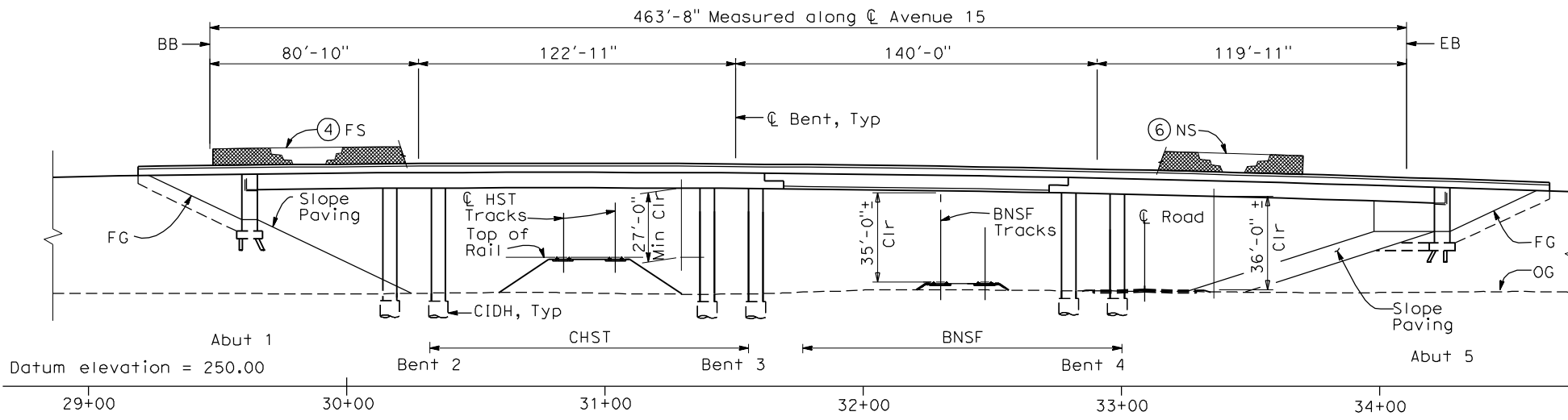
DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	463'-8"
WIDTH	=	47'-6"
AREA	=	22,026 ft ²
COST/DFIT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



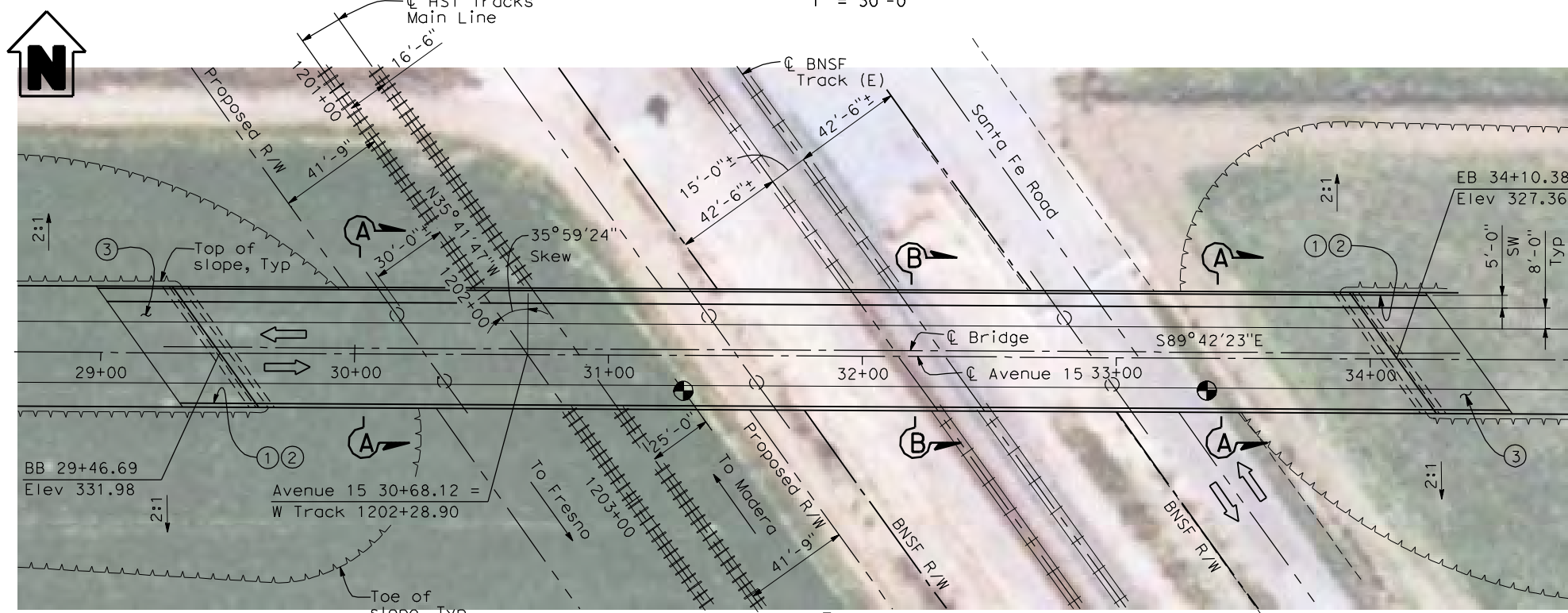
SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"



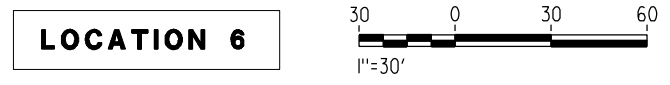
ELEVATION
1" = 30'-0"



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

20+62.41 BVC
Elev 330.53

28+62.41 EVC
Elev 330.53

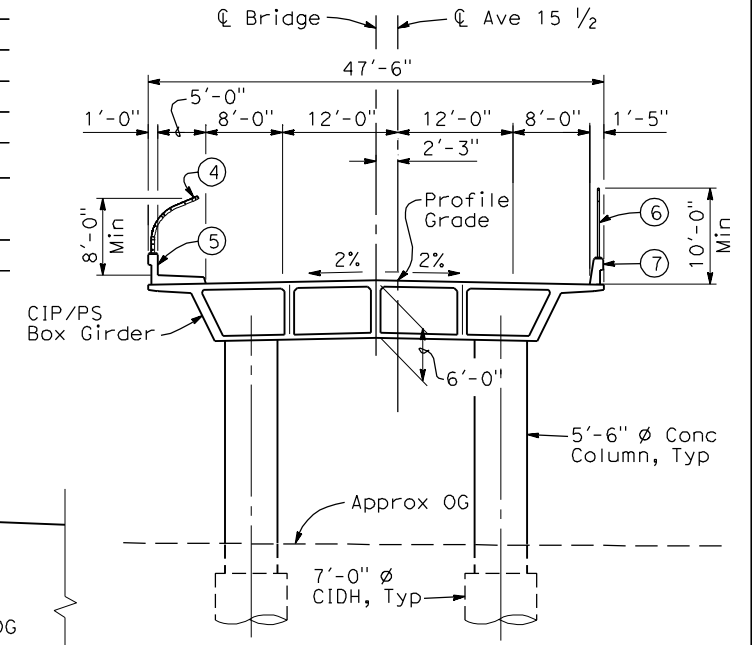
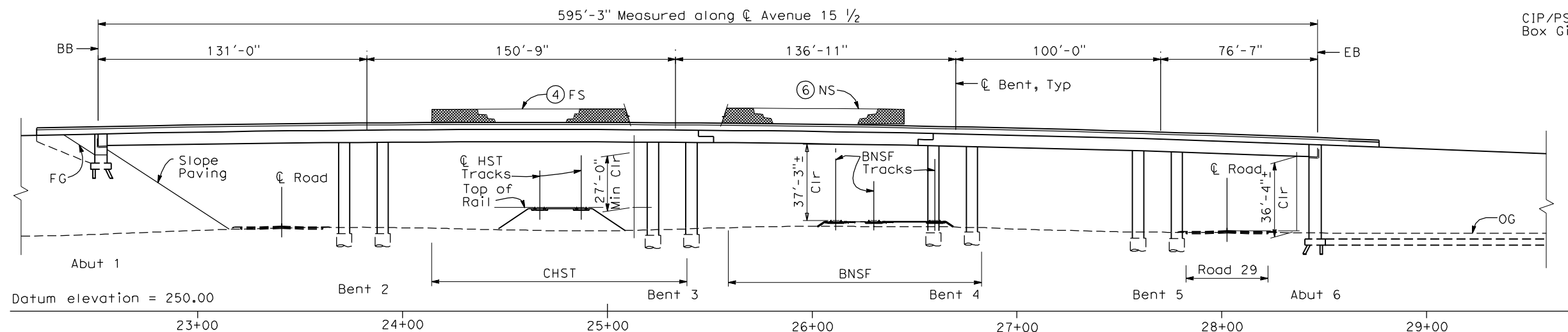
4.0%

800.00 VC
RC = -1.0% / S+a

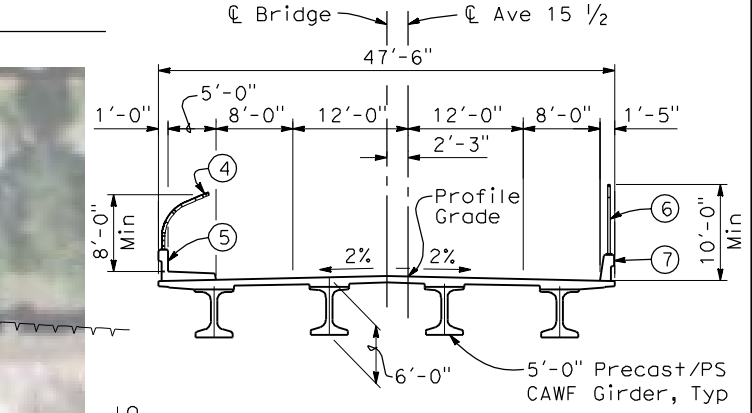
-4.0%

PROFILE GRADE
NTS

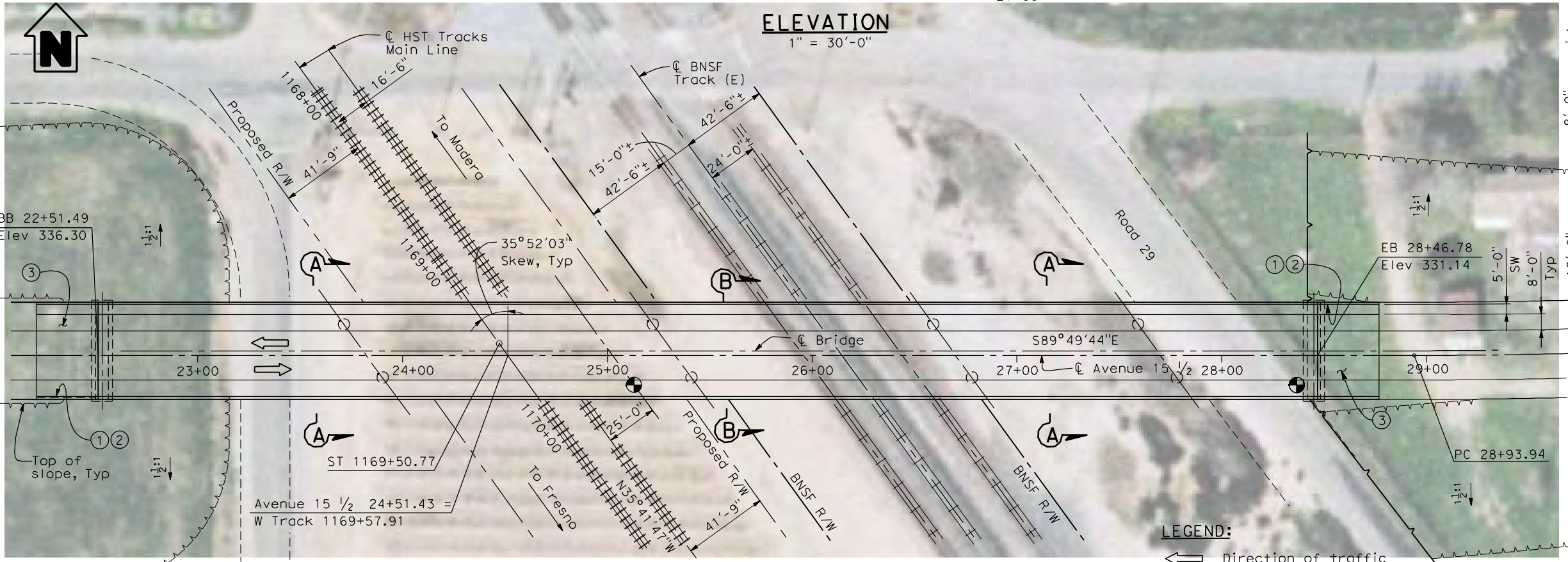
DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	595'-3"
WIDTH	=	47'-6"
AREA	=	28,280 ft ²
COST/ SFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



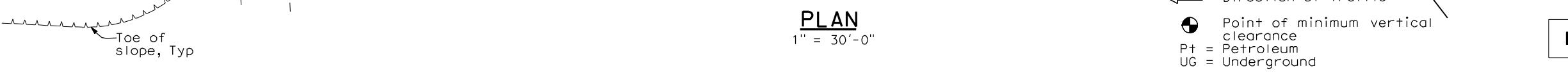
SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"

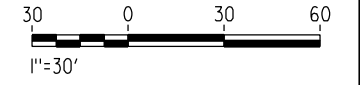
NOTES:

- ① Paint "Bridge No. XX-XX"
- ② Paint "Avenue 15 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. Bearing of Avenue 15 1/2 to be determined.
9. 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\A1-2\ML2\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

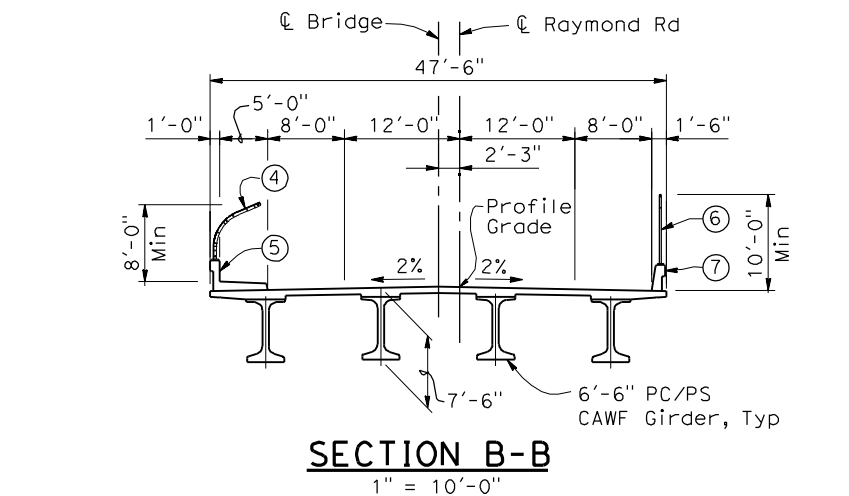
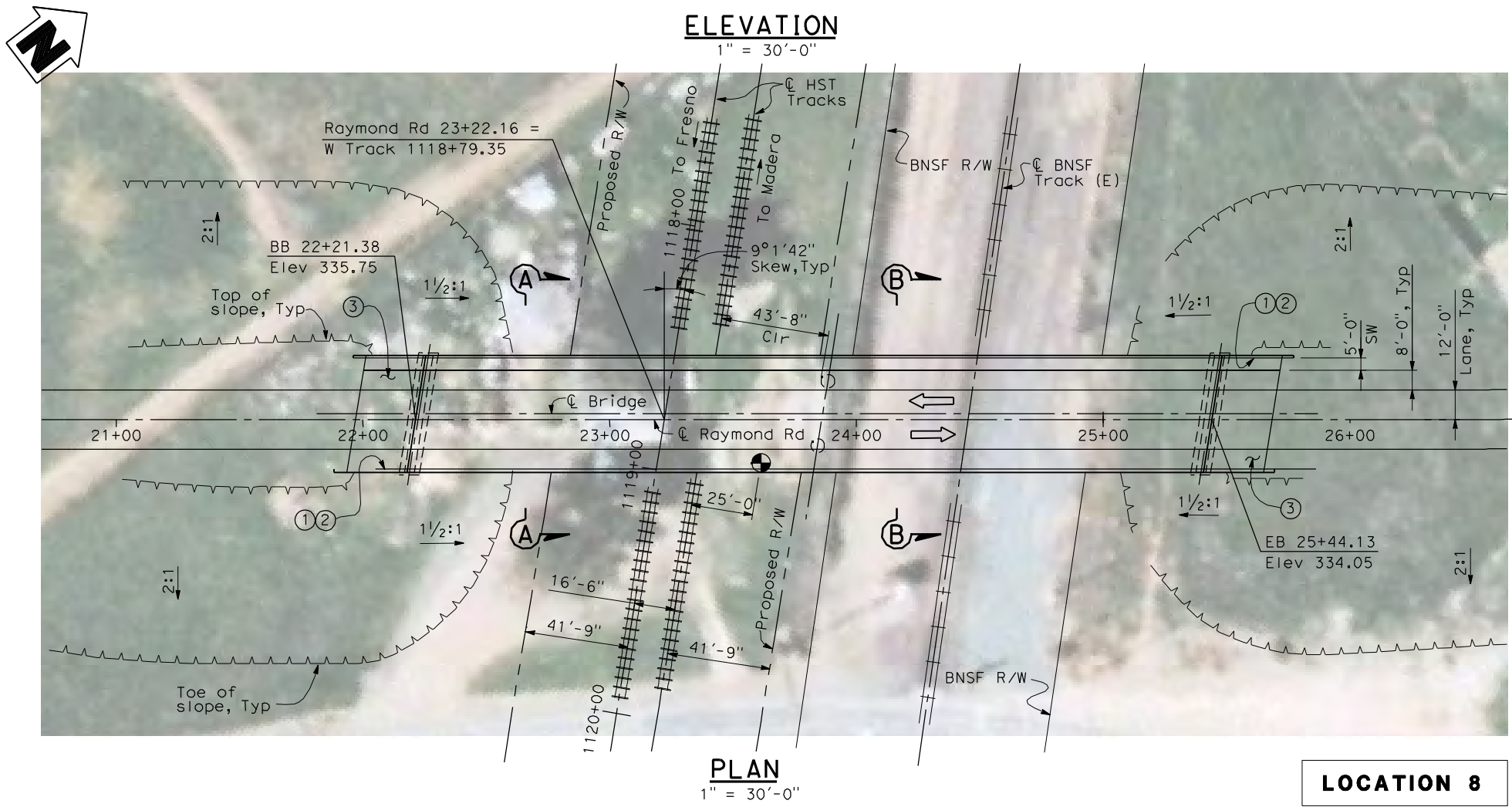
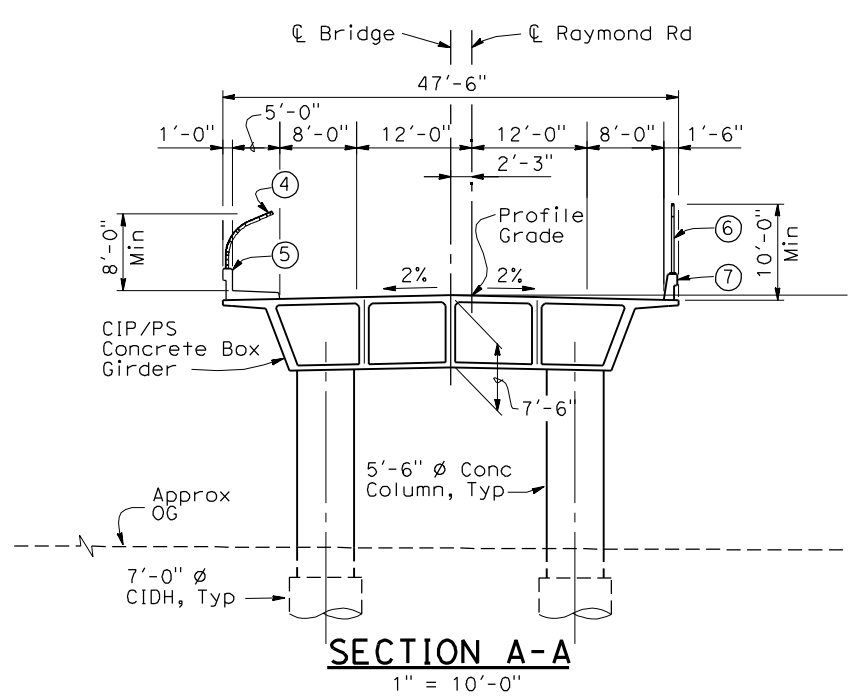
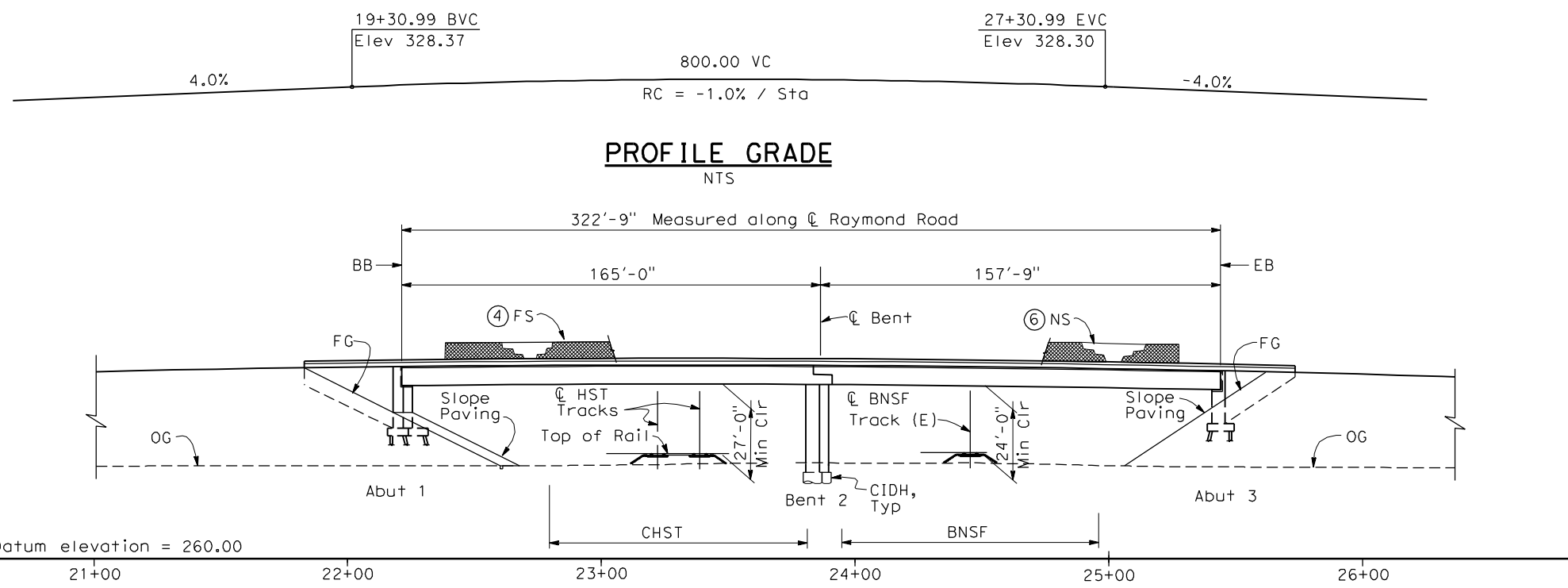
**NOT FOR
CONSTRUCTION**



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\W-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

30 0 30 60
1"=30'

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

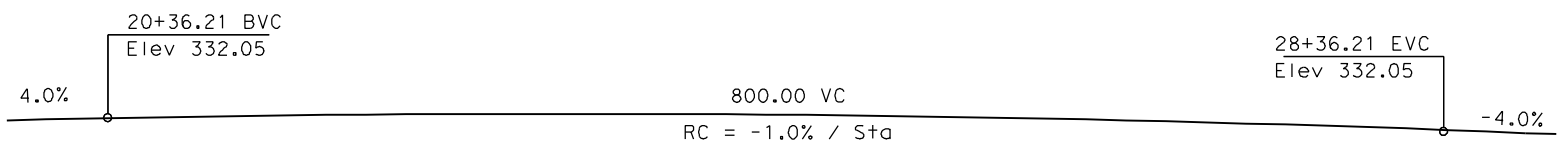
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1008

SCALE
AS SHOWN

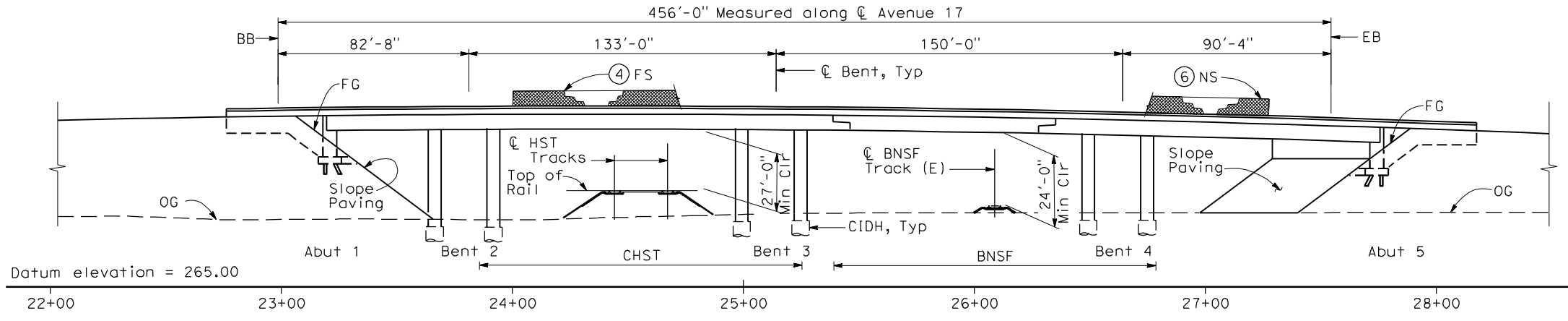
SHEET NO.
OF

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

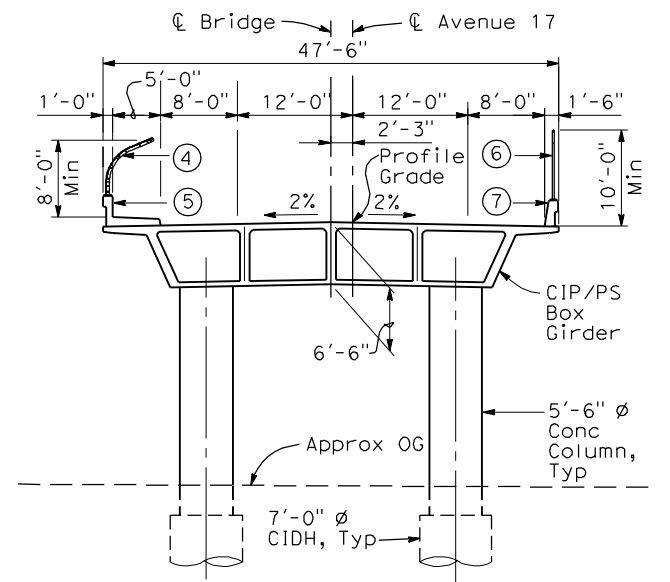


PROFILE GRADE
NTS

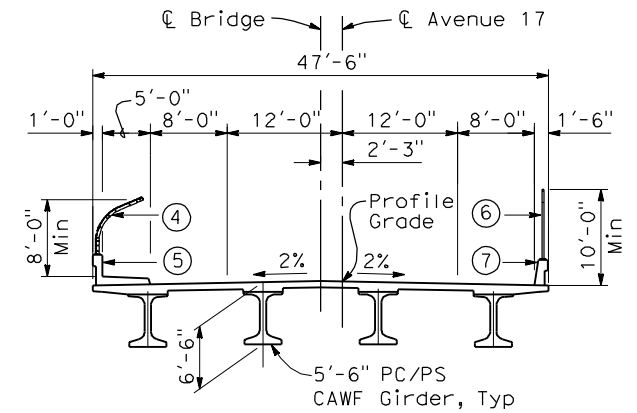
DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-6"
LENGTH	=	456'-0"
WIDTH	=	47'-6"
AREA	=	21,660 ft ²
COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



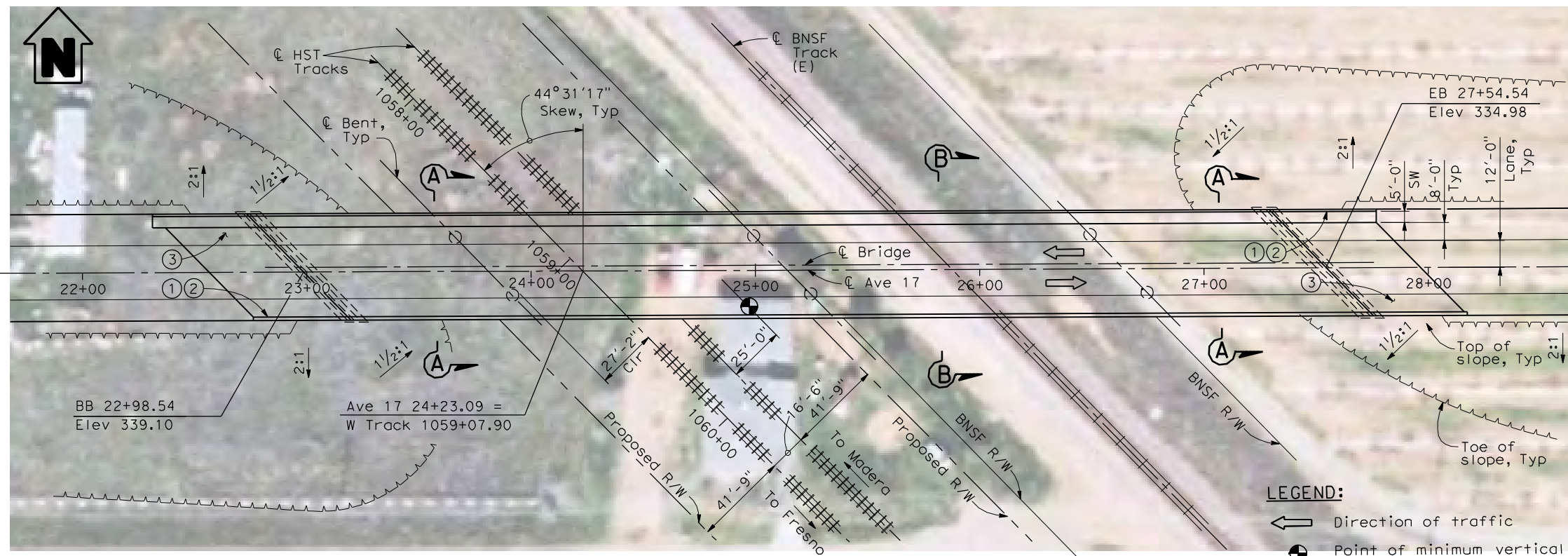
ELEVATION
1" = 30'-0"



SECTION A-A
1" = 10'-0"



SECTION B-B
1" = 10'-0"

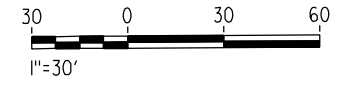


PLAN
1" = 30'-0"

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

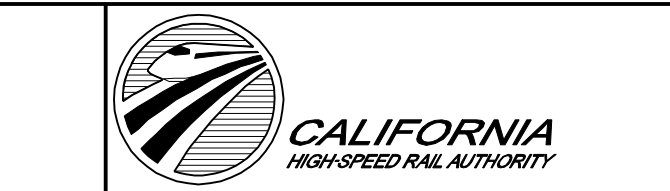


REV	DATE	BY	CHK	APP	DESCRIPTION

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

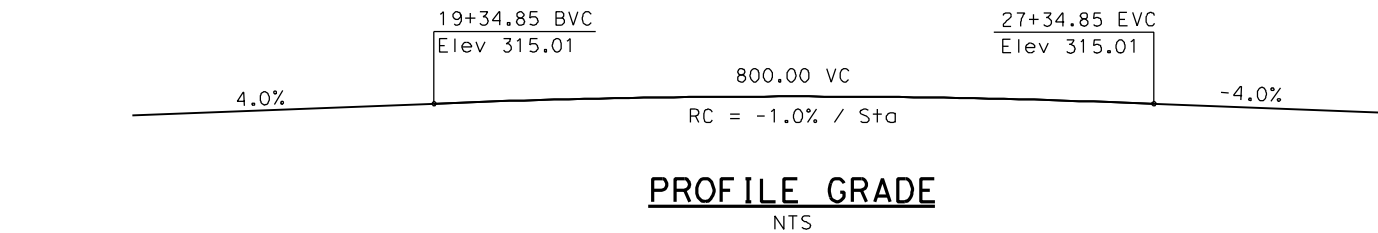
NOT FOR CONSTRUCTION



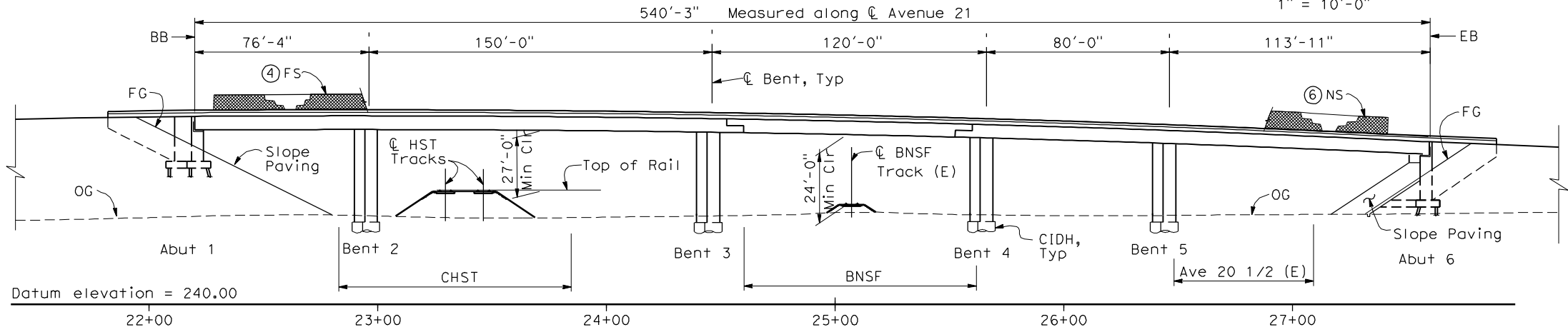
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 17 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1009
SCALE	AS SHOWN
SHEET NO.	OF

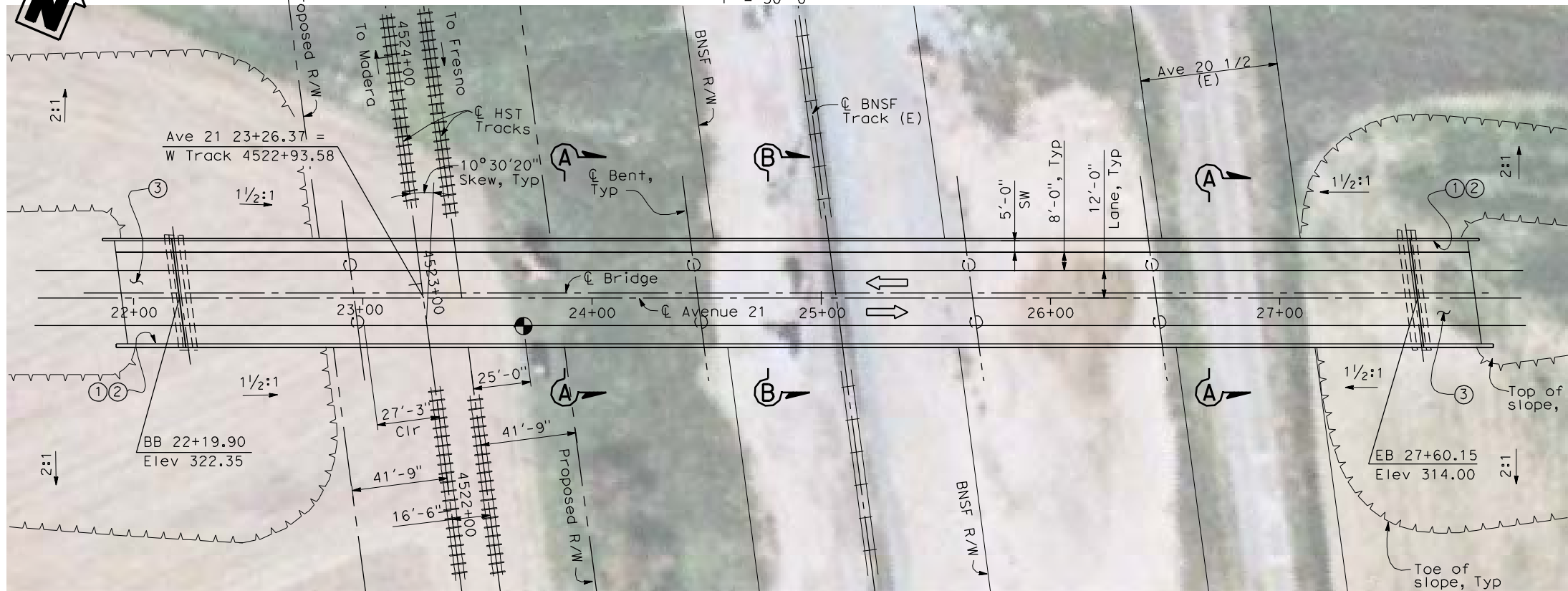
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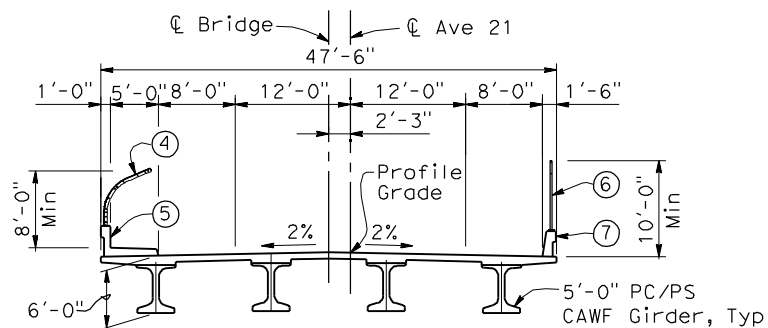
PROFILE GRADE
NTS



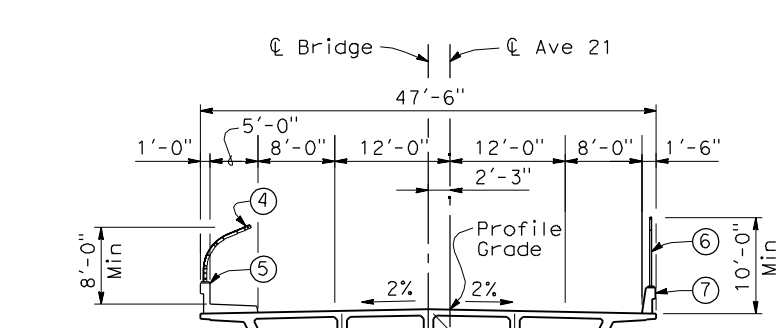
ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



SECTION B-B
1" = 10'-0"



SECTION A-A
1" = 10'-0"

NOTES:

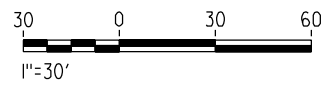
- ① Paint "Bridge No. xx-xx"
- ② Paint "Avenue 21 OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.
9. Location and elevation of existing BNSF track to be determined.

LEGEND:

- ← Direction of traffic
- ⊙ 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/ØFT 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

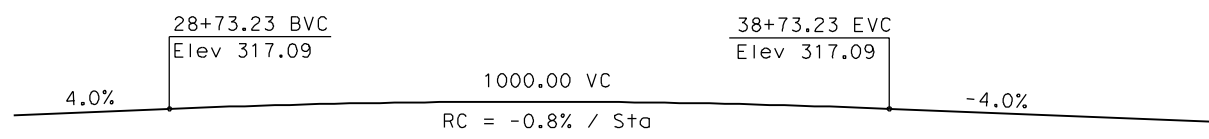
NOT FOR CONSTRUCTION



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

4/30/2011 4:14:58 PM I:\CHSR\600229262\Task-02_Merced-Fresno\CADD\Struct\Sheet\AP5\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1013.dgn



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"

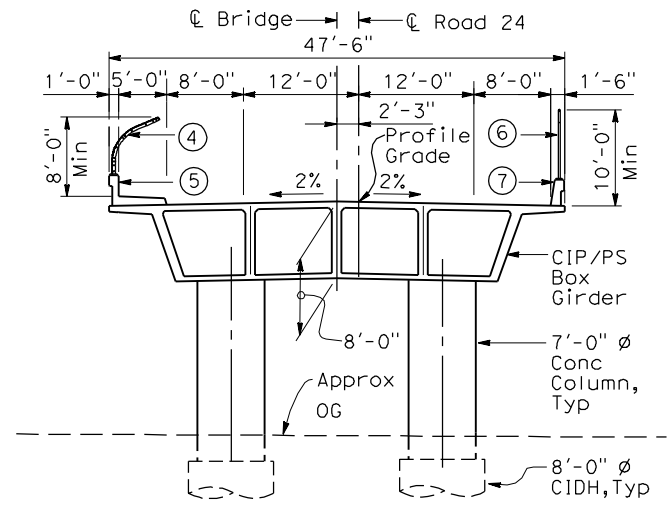
WIDTH = 47'-6"

AREA = 26,260 ft²

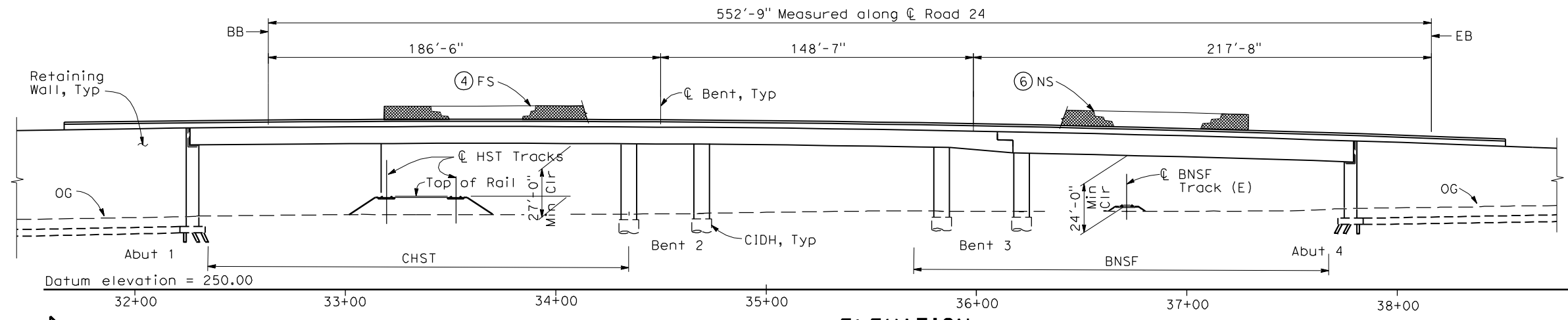
COST/ØFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____

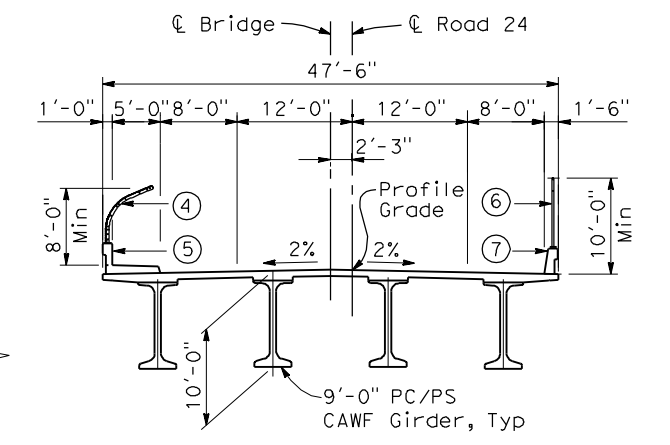
- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 24 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Bearing of Road 24 and BNSF track to be determined.
 9. Existing underground and overhead utilities to be determined.
 10. Location and elevation of existing BNSF track to be determined.



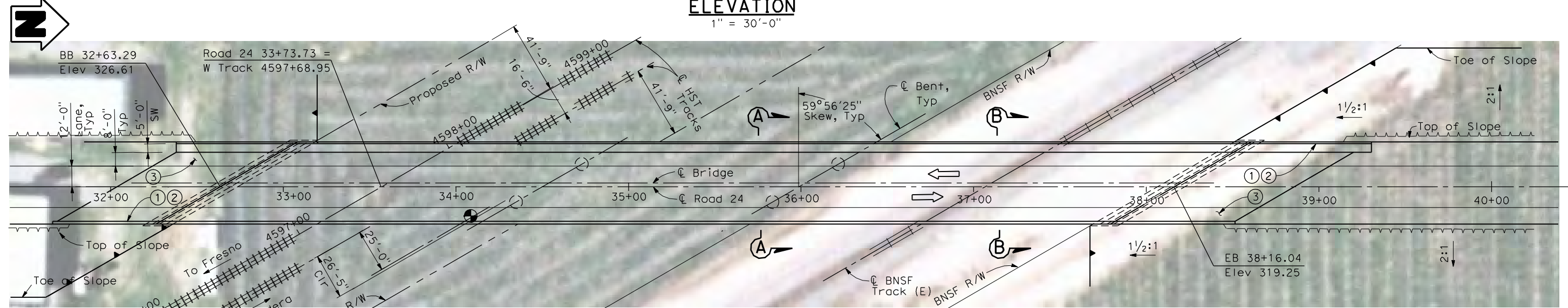
SECTION A-A
1"=10'-0"



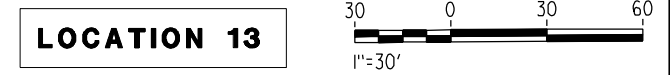
ELEVATION
1" = 30'-0"



SECTION B-B
1"=10'-0"



PLAN
1" = 30'-0"



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

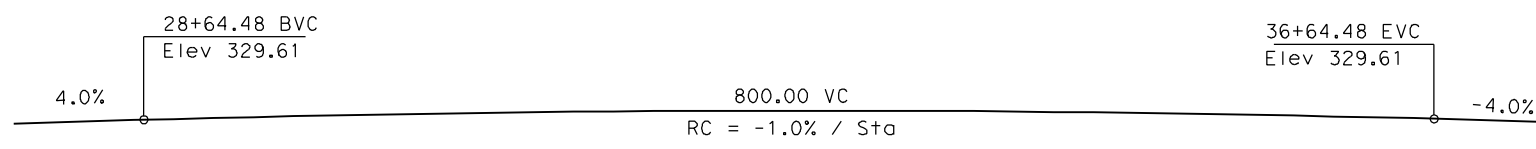
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1013

SCALE
AS SHOWN

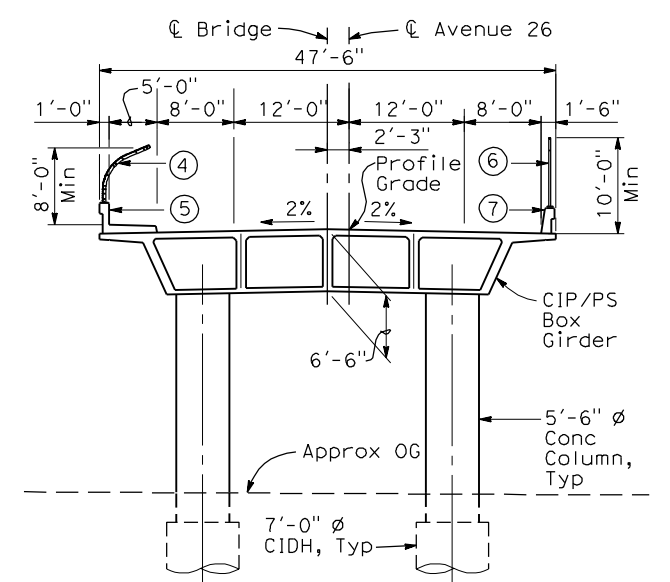
SHEET NO.
OF

4/30/2011 4:16:13 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1015.dgn

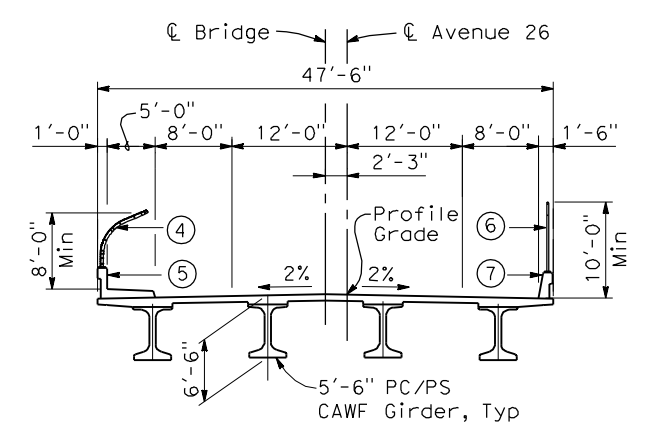


PROFILE GRADE
NTS

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-6"
LENGTH	=	490'-8"
WIDTH	=	47'-6"
AREA	=	23,310 ft ²
COST/□FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

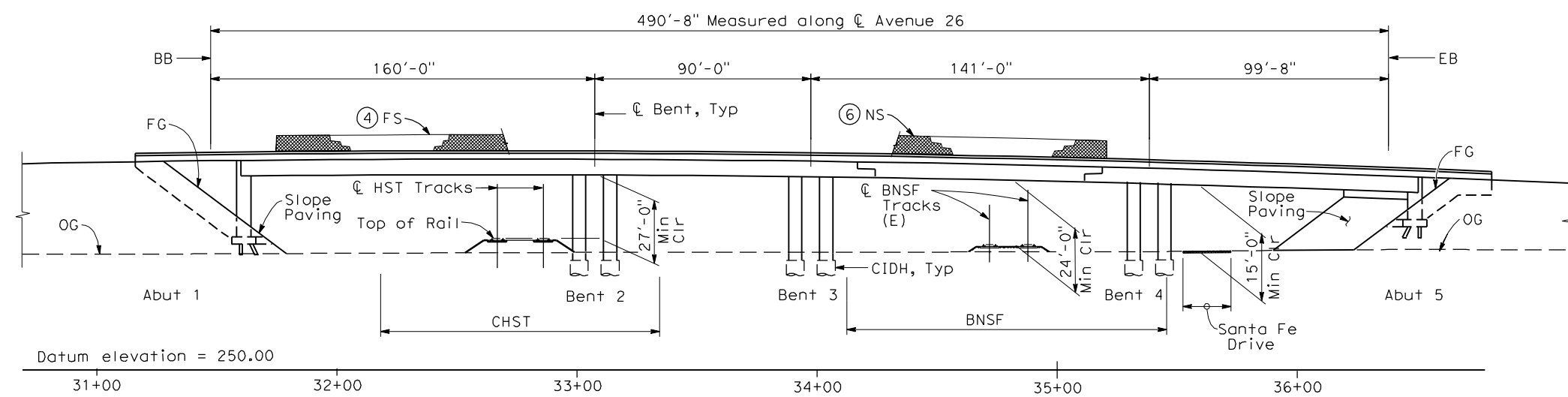


SECTION A-A
1"=10'-0"

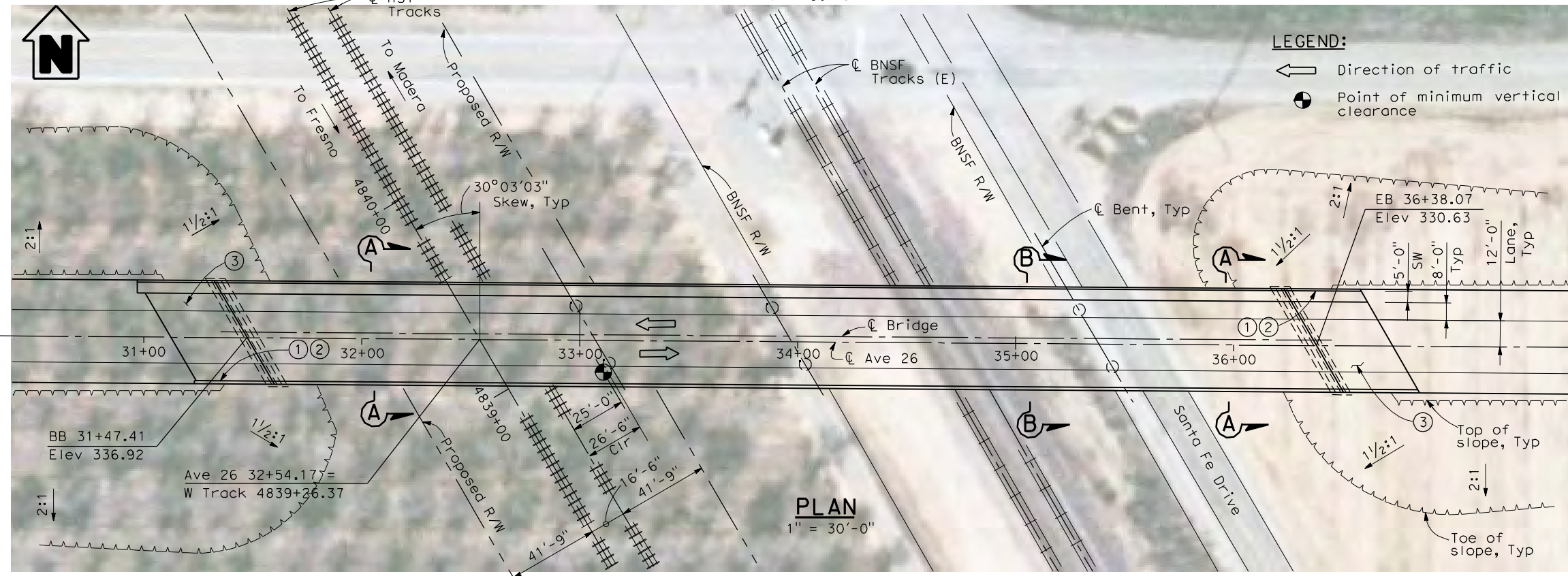


SECTION B-B
1"=10'-0"

- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Avenue 26 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 26 and BNSF tracks to be determined.
 - Existing underground and overhead utilities to be determined.
 - Location and elevation of existing BNSF tracks to be determined.



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

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

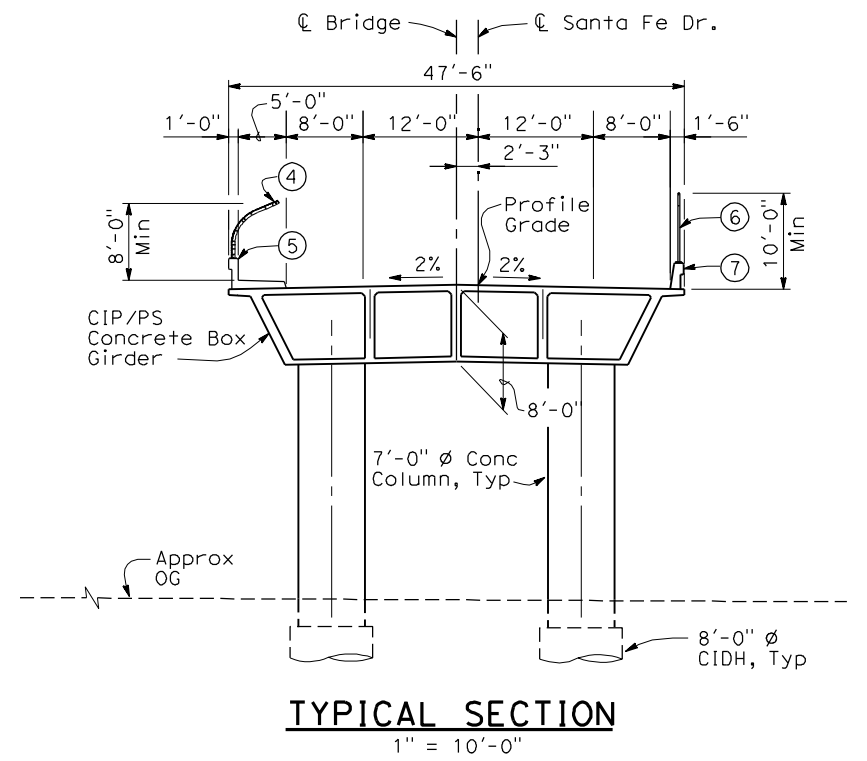
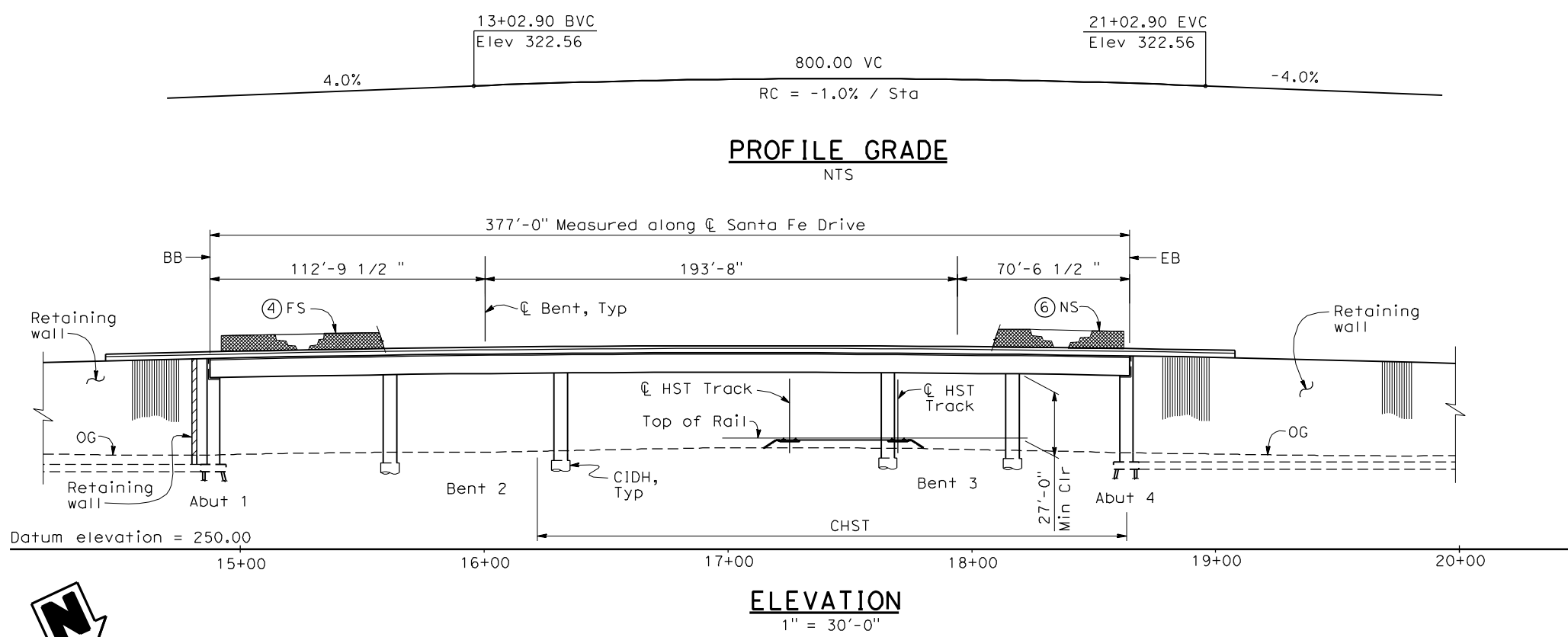
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 26 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1015
SCALE	AS SHOWN
SHEET NO.	OF

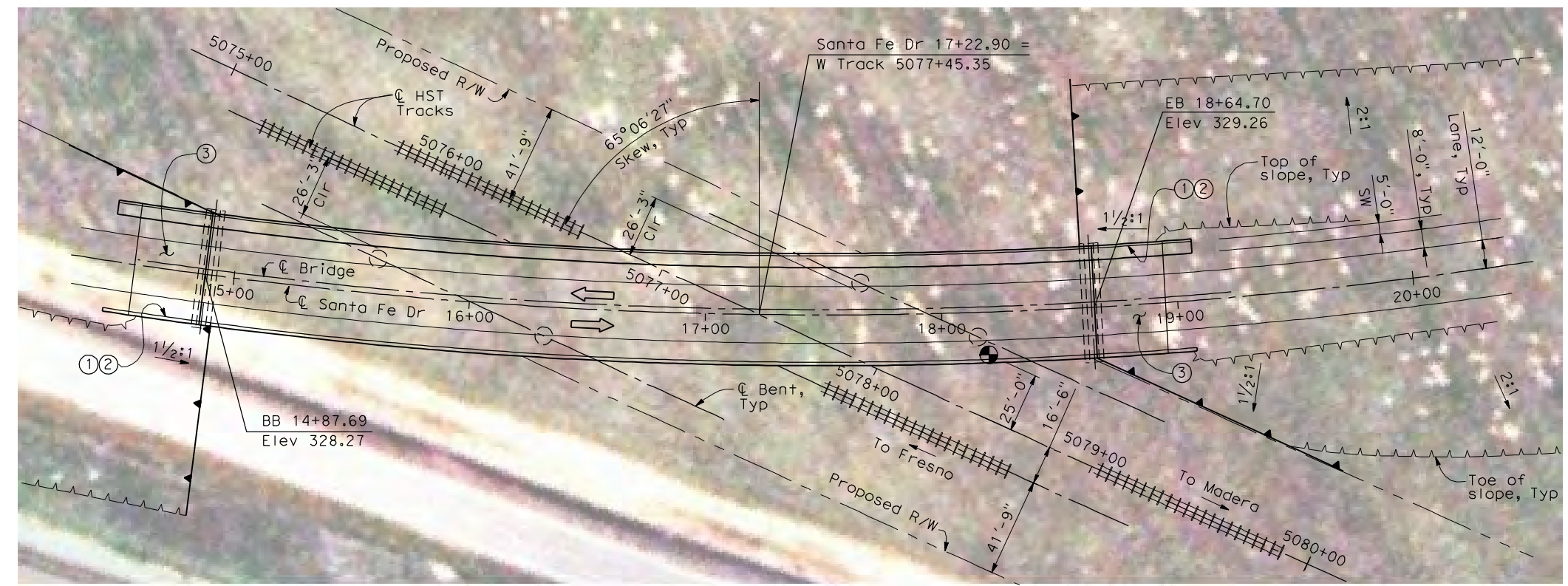
4/30/2011 4:17:05 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\AP5\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\WF-ST1016.dgn



- 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/□FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	_____
TOTAL COST	=	_____



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

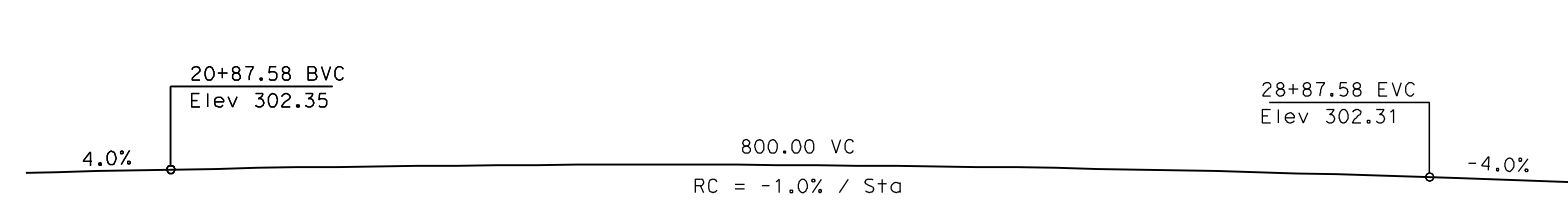
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF 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"

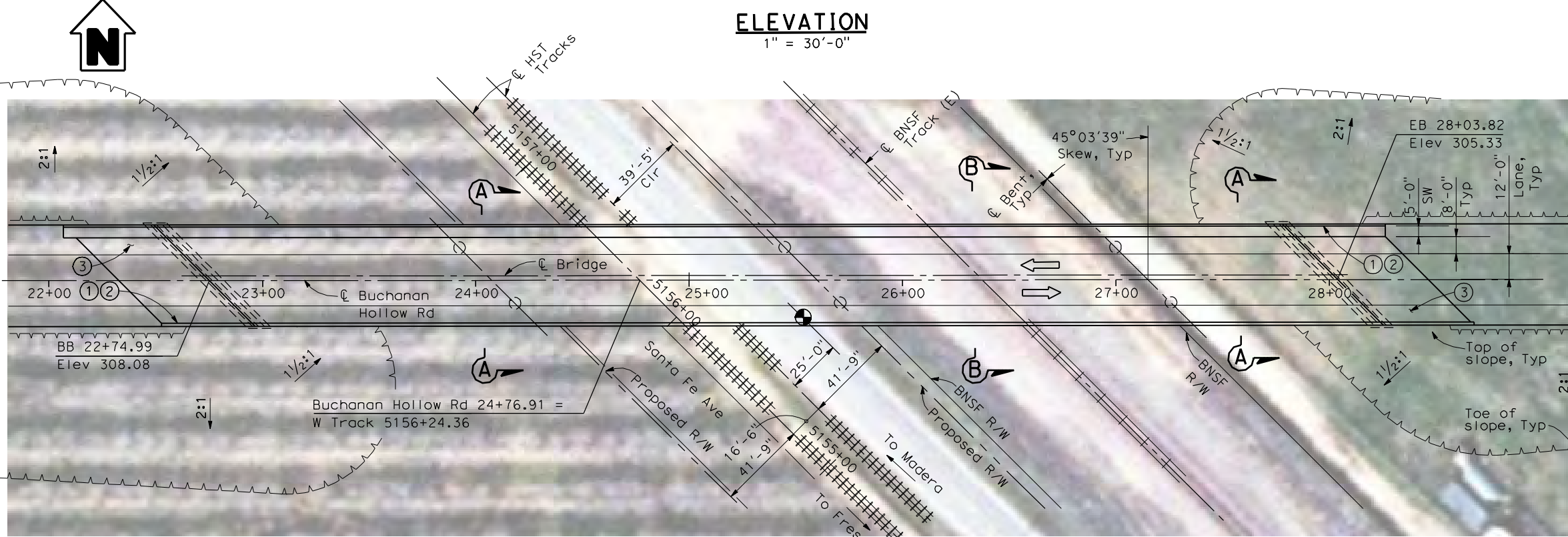
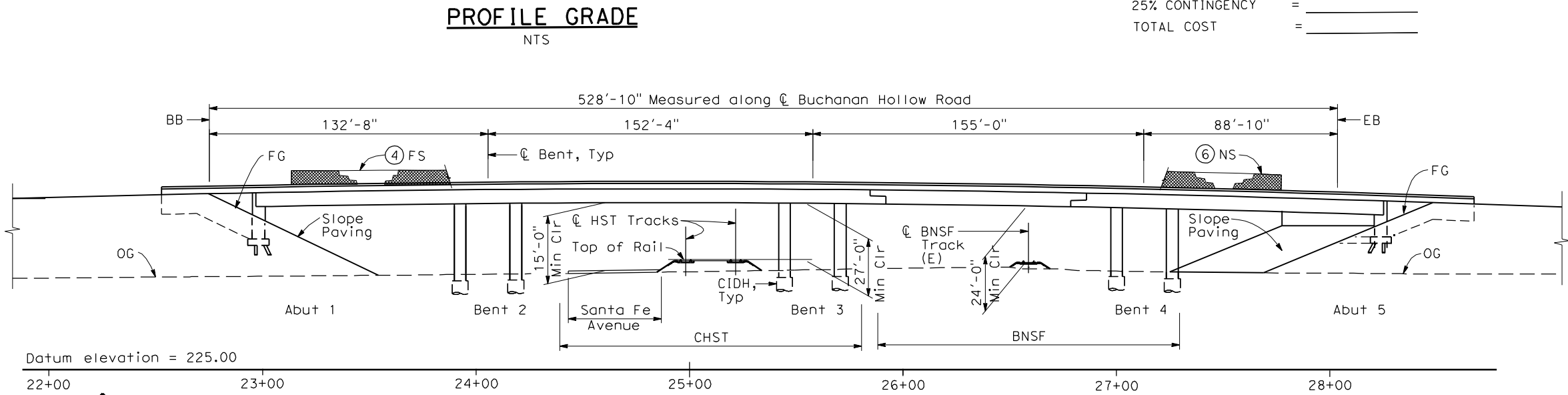
LENGTH = 528'-10"

WIDTH = 47'-6"

AREA = 25,120 ft²

COST / OFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____

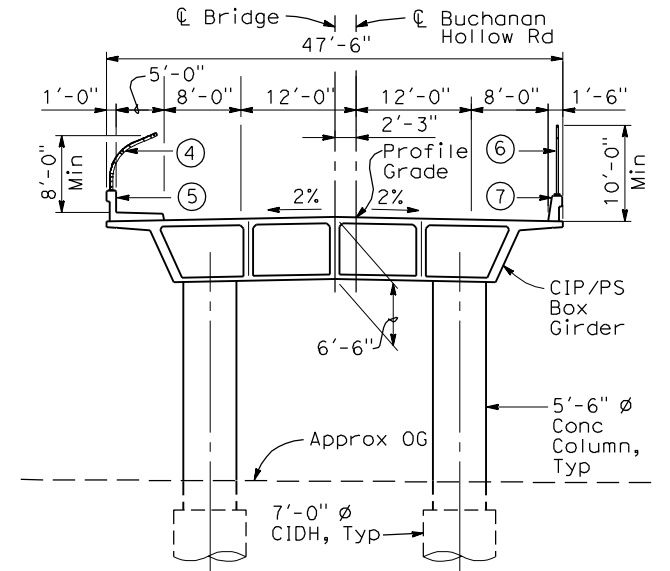


PLAN
1" = 30'-0"

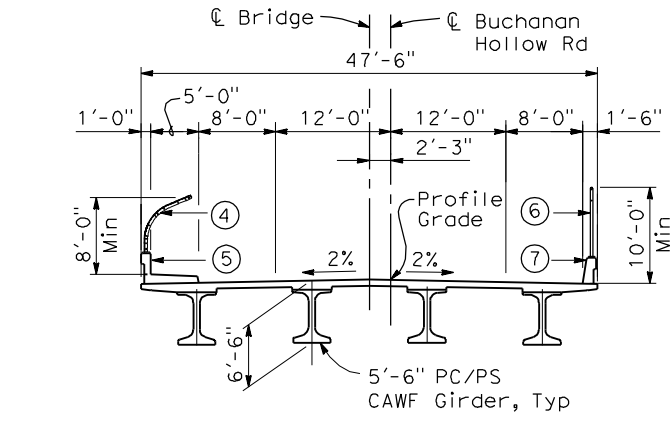
LEGEND:

← Direction of traffic

● Point of minimum vertical clearance

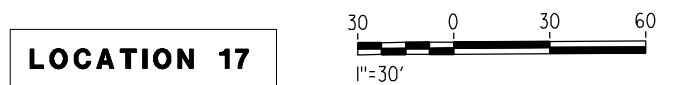


SECTION A-A
1" = 10'-0"



SECTION B-B
1" = 10'-0"

- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Buchanan Hollow 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 Buchanan Hollow Road and BNSF track 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

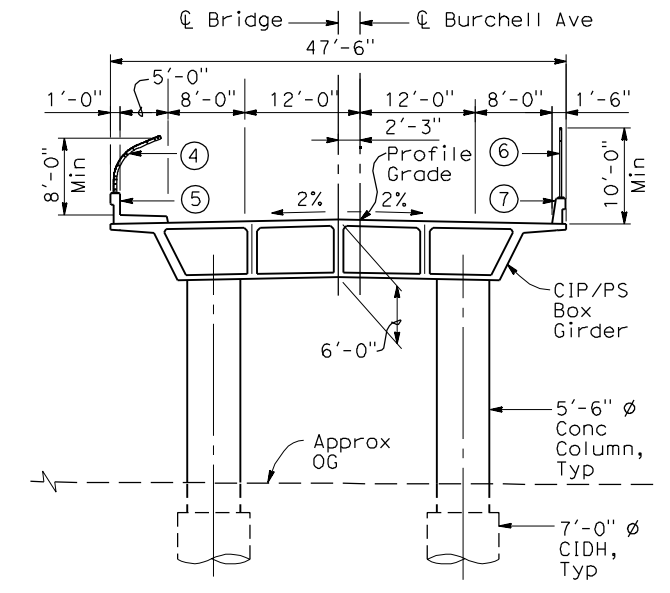
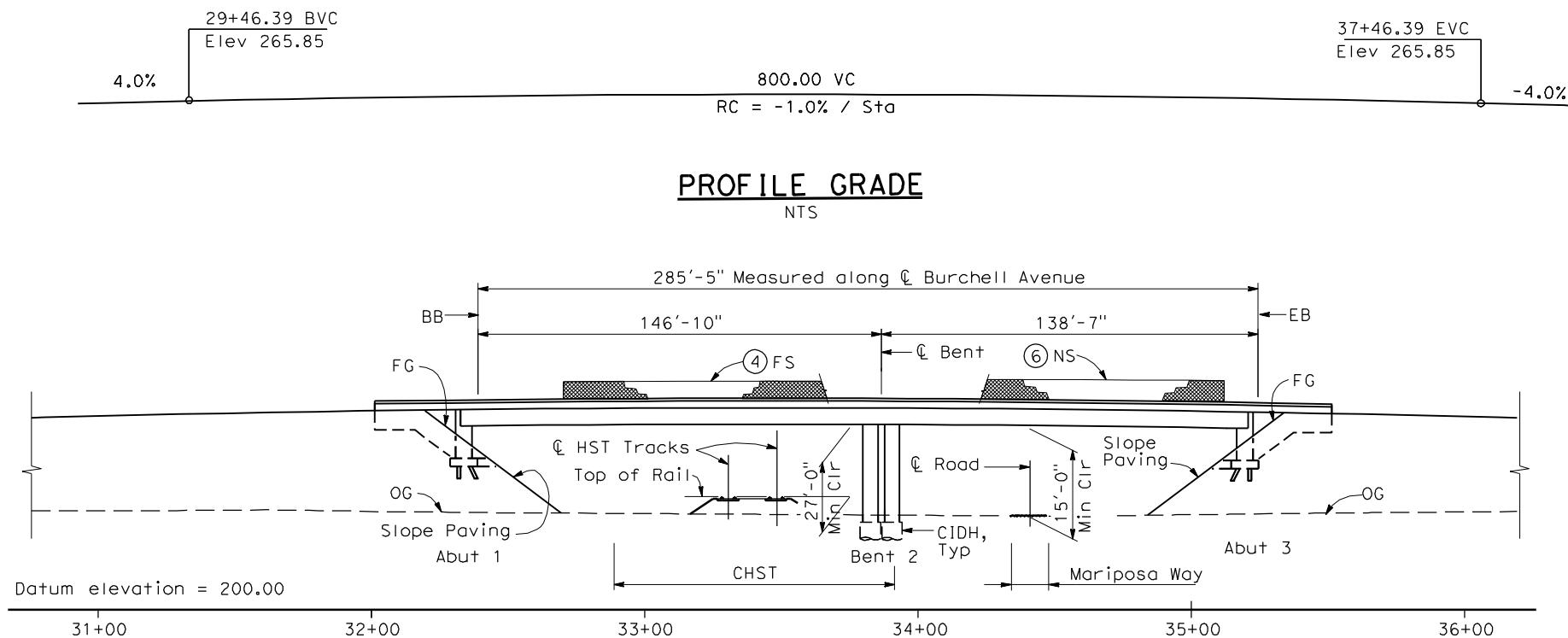
RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 21
BUCHANAN HOLLOW ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1017
SCALE AS SHOWN
SHEET NO. OF

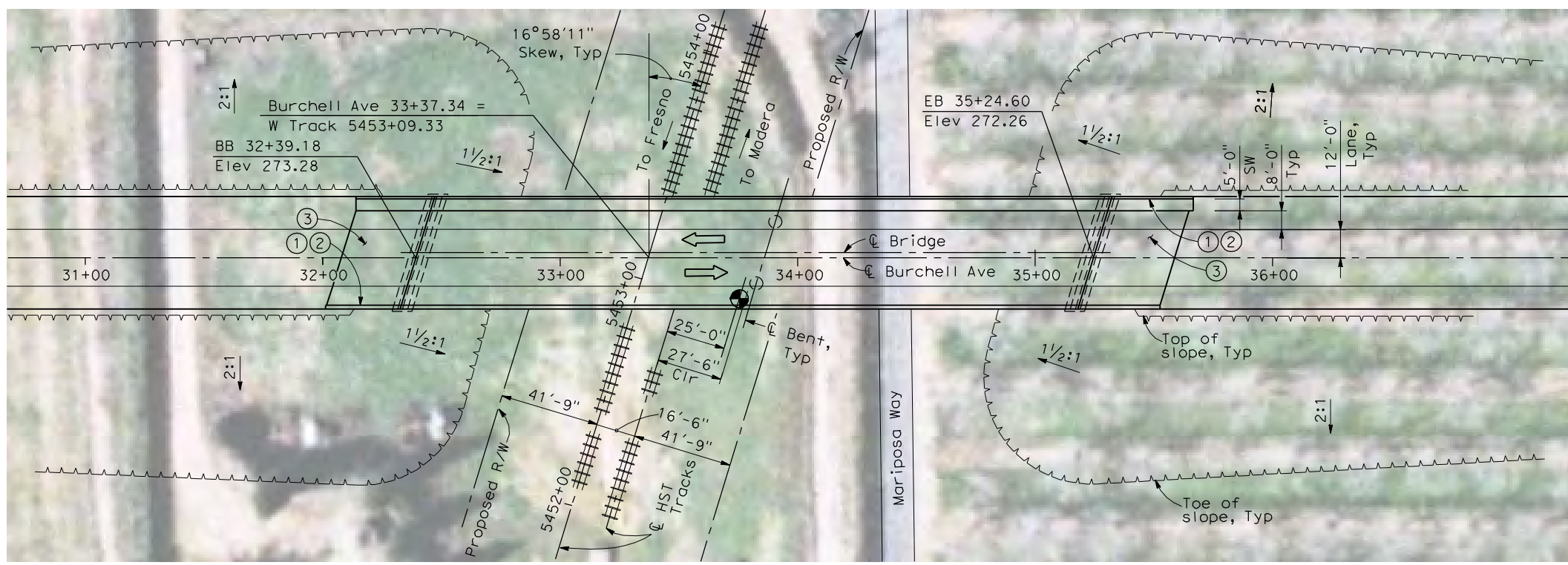


TYPICAL SECTION
1" = 10'-0"

- 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
 - Bearing of Burchell Avenue to be determined.
 - Existing underground and overhead utilities to be determined.

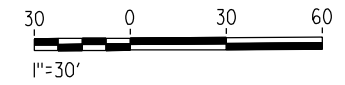
- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 285'-5"
WIDTH	= 47'-6"
AREA	= 13,560 ft ²
COST / SFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____



PLAN
1" = 30'-0"

LOCATION 18



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

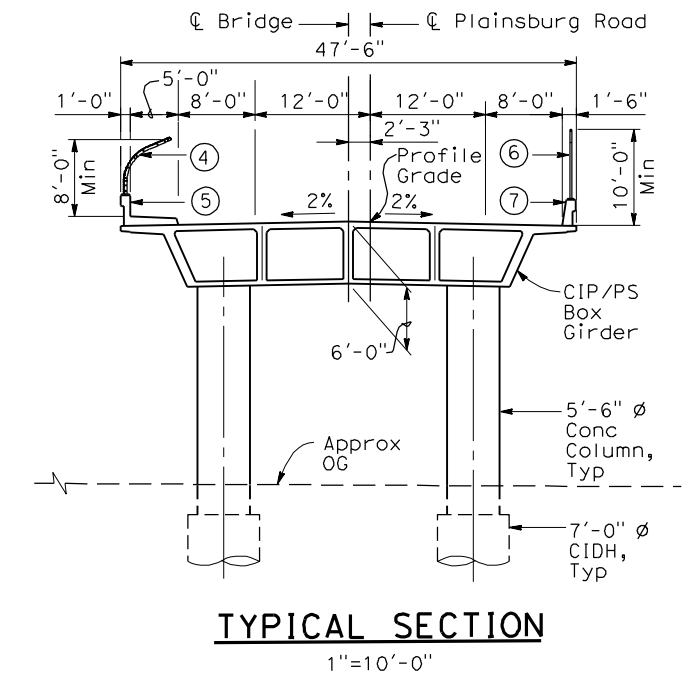
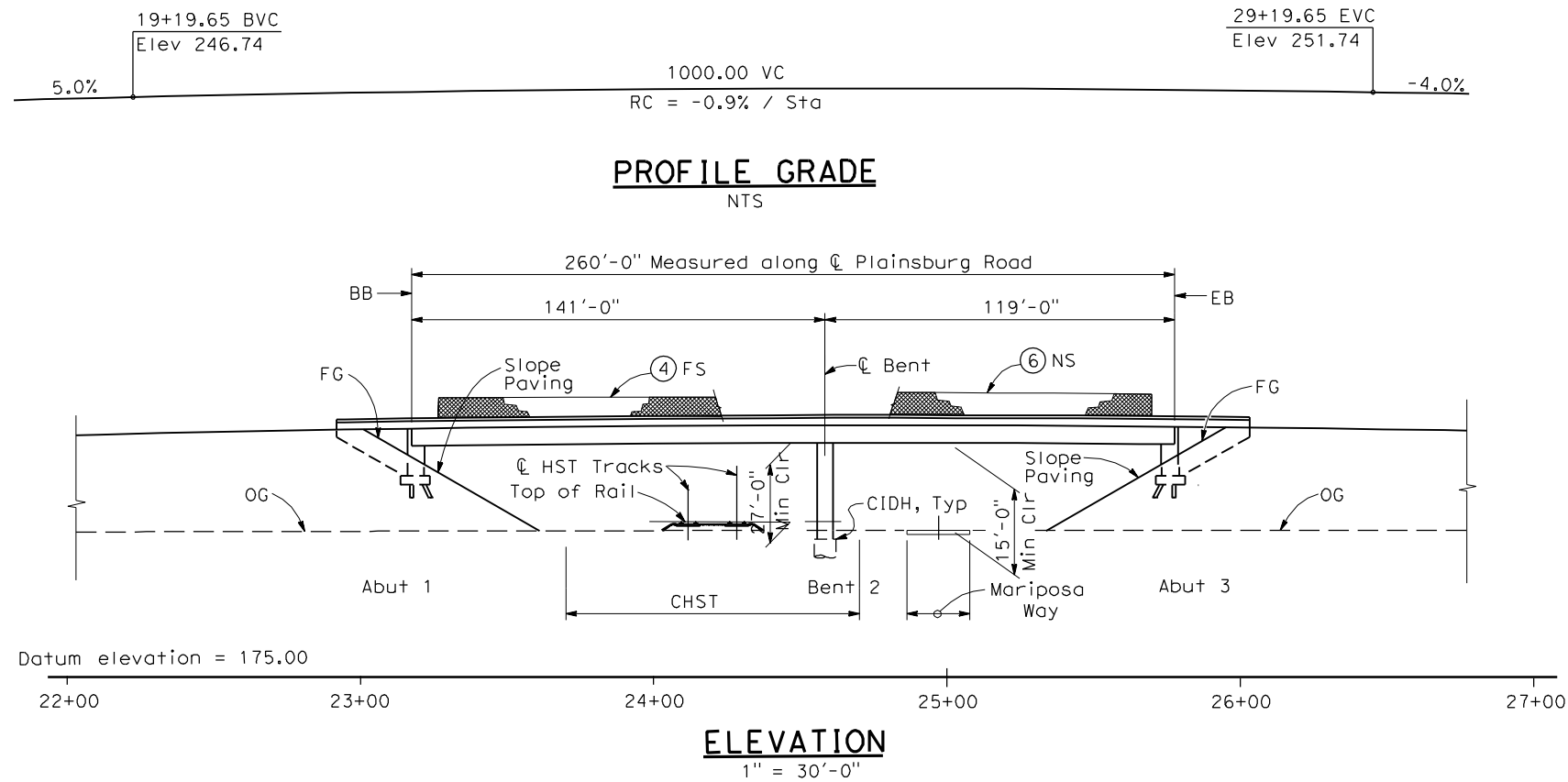
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



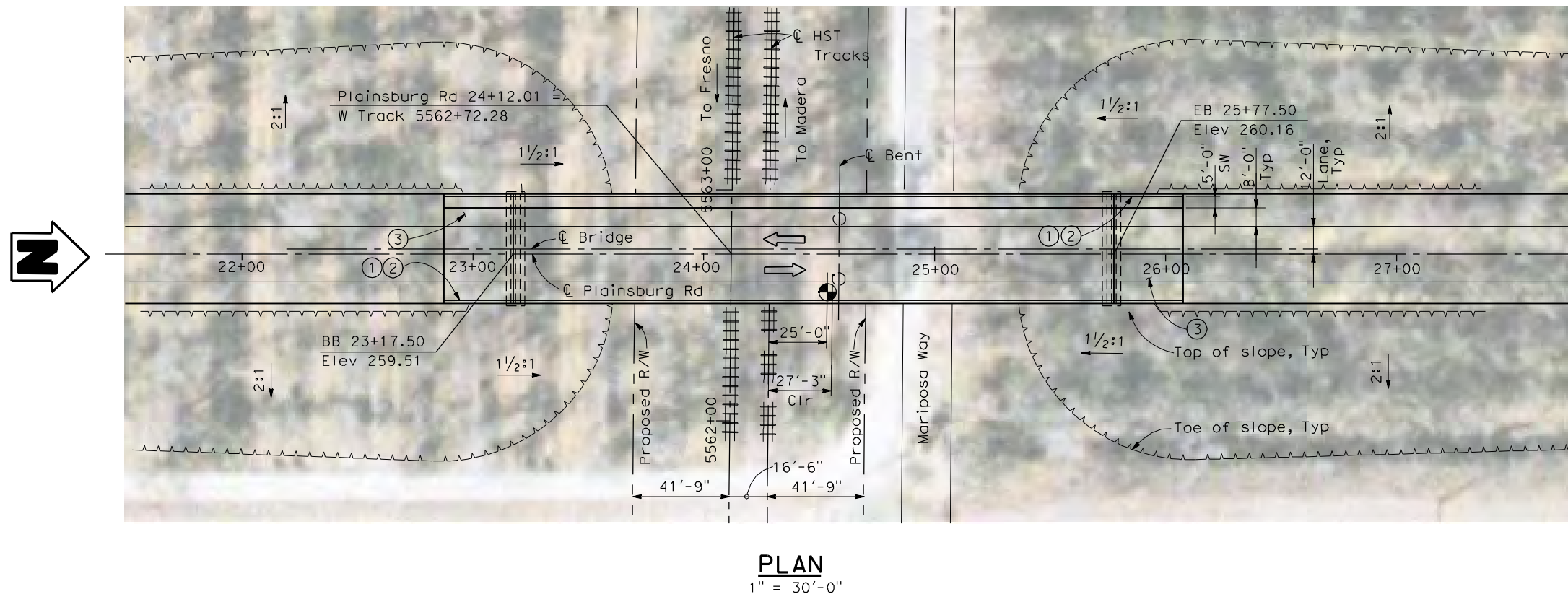
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 21/AVENUE 24
BURCHELL AVENUE OVERHEAD
PLANNING STUDY

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 = _____



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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

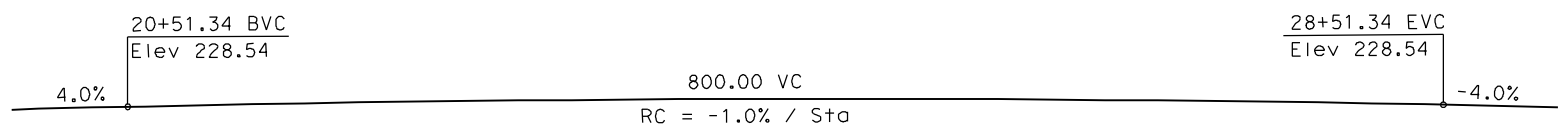
NOT FOR CONSTRUCTION



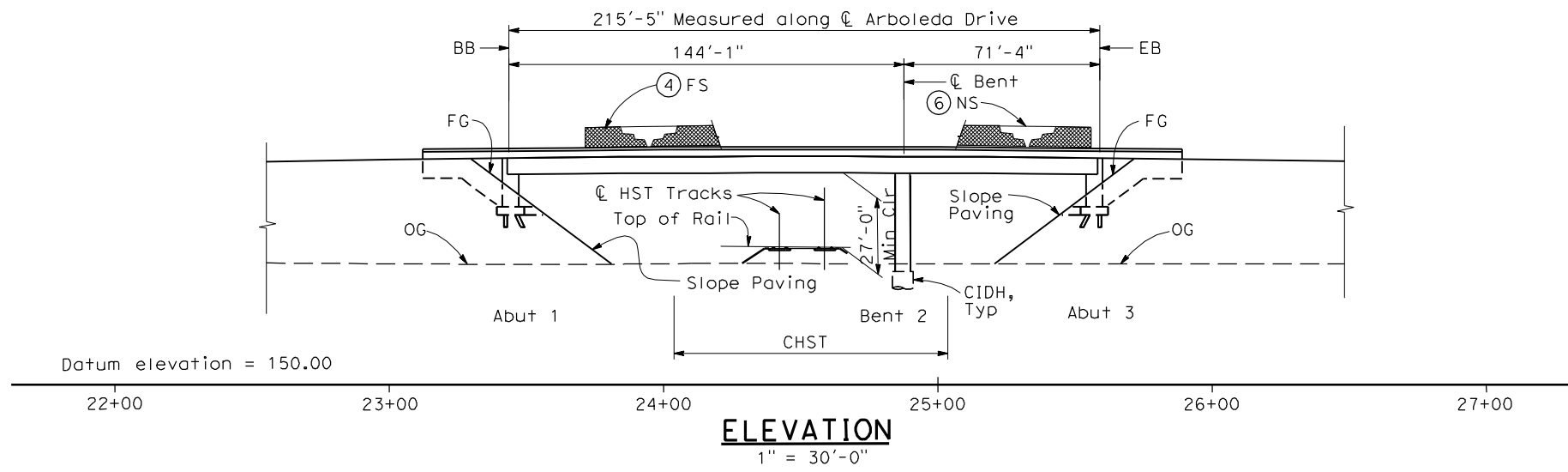
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVENUE 21/AVENUE 24
PLAINSBURG ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1019
SCALE	AS SHOWN
SHEET NO.	OF

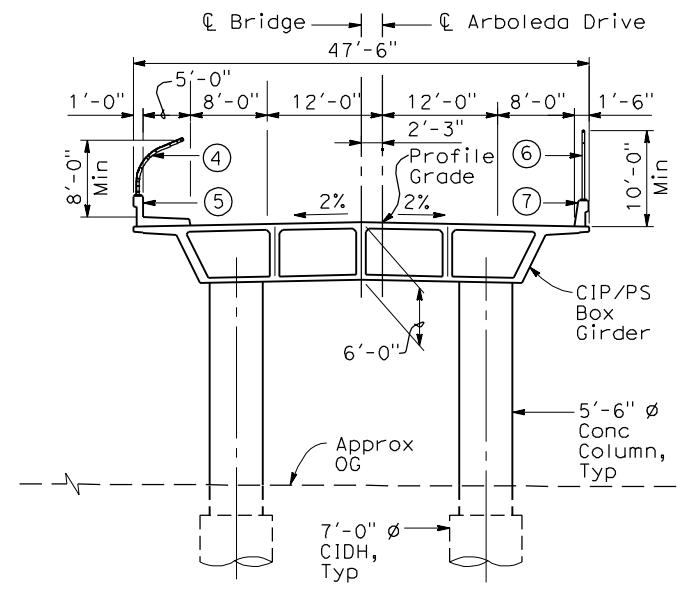
4/30/2011 4:19:06 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\Oakland\W-MF-ST1020.dgn



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

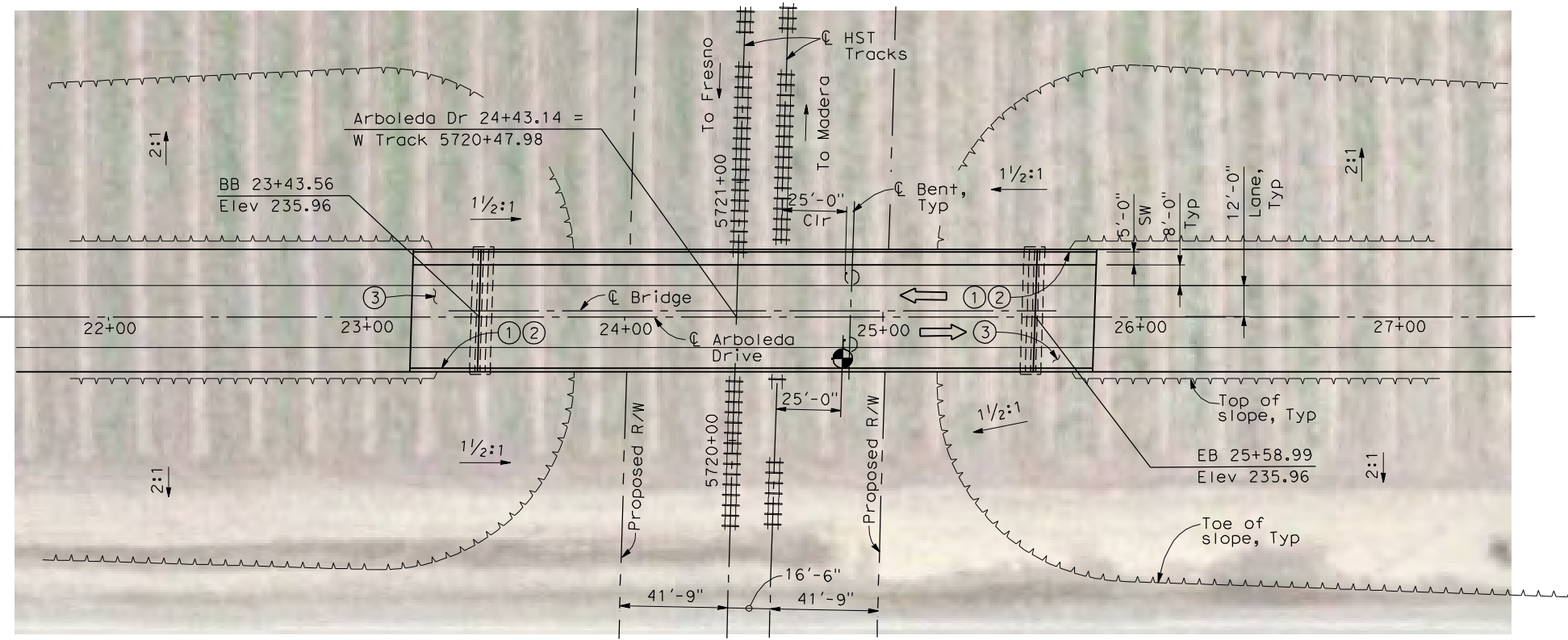
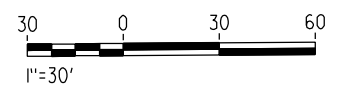
- ① Paint "Bridge No. XX-XX"
- ② Paint "Arboleda Drive OH"
- ③ Structure Approach Slab Type N (30S)
- ④ Chain Link Railing Type 3
- ⑤ Concrete Barrier Type 26 (Mod)
- ⑥ Chain Link Railing Type 7 (Mod)
- ⑦ Concrete Barrier Type 732
8. Bearing of Arboleda Drive to be determined.
9. Existing underground 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

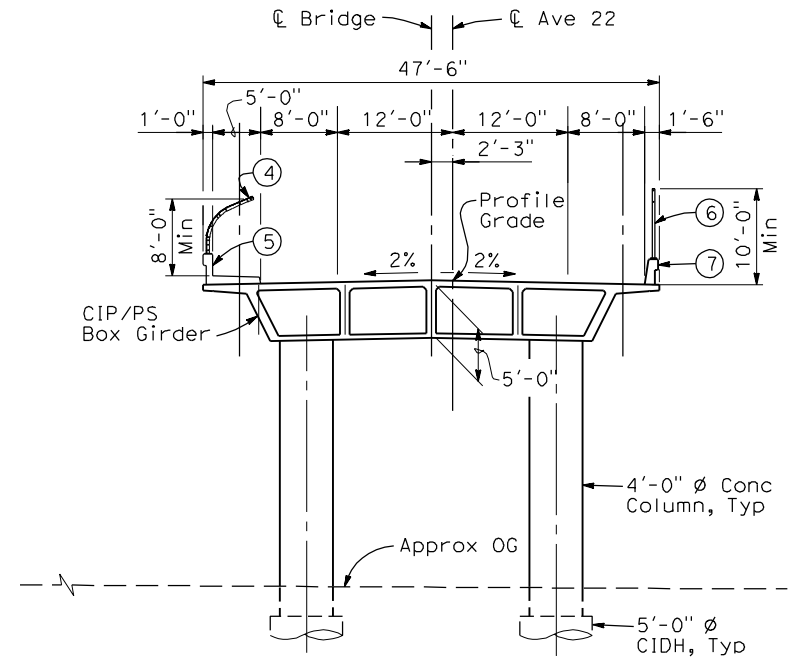
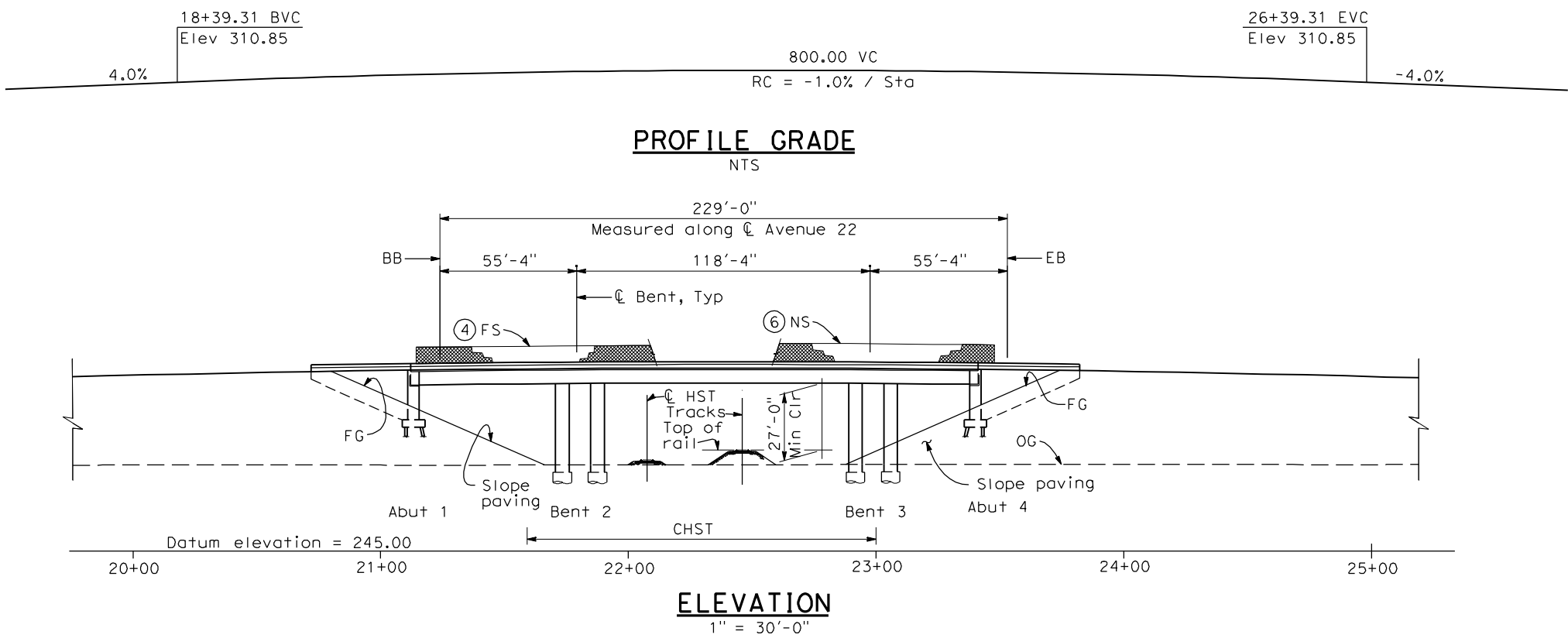
NOT FOR
CONSTRUCTION



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

4/28/2011 4:55:02 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21WYE-W-MF-ST-OH_Ave_22.dgn

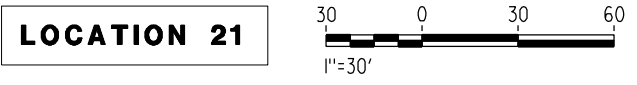
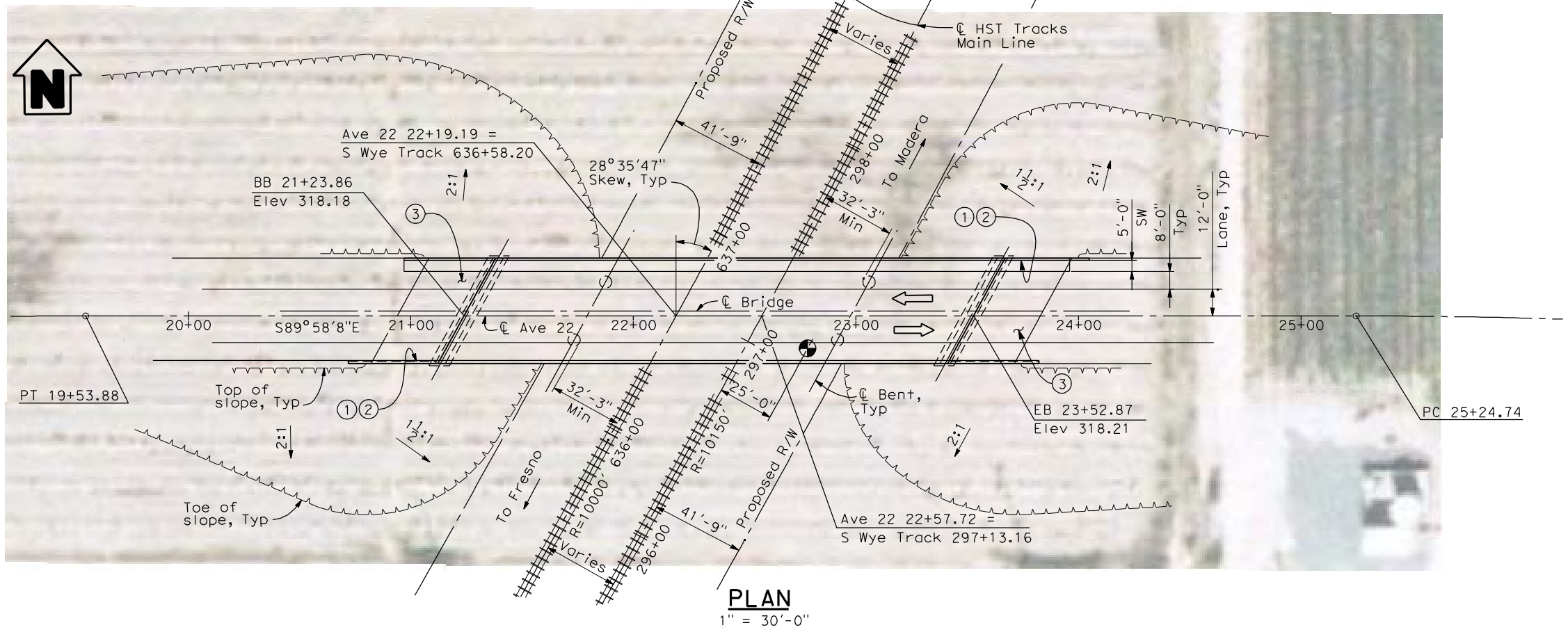


- TYPICAL SECTION**
1" = 10'-0"
- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Avenue 22 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

LEGEND:

- ← Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	229'-0"
WIDTH	=	47'-6"
AREA	=	10,880 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

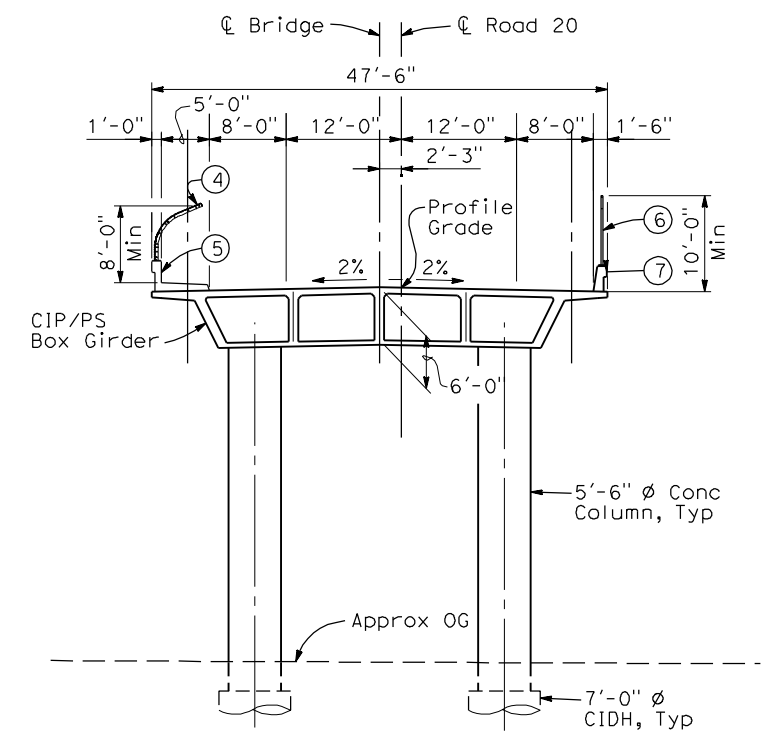
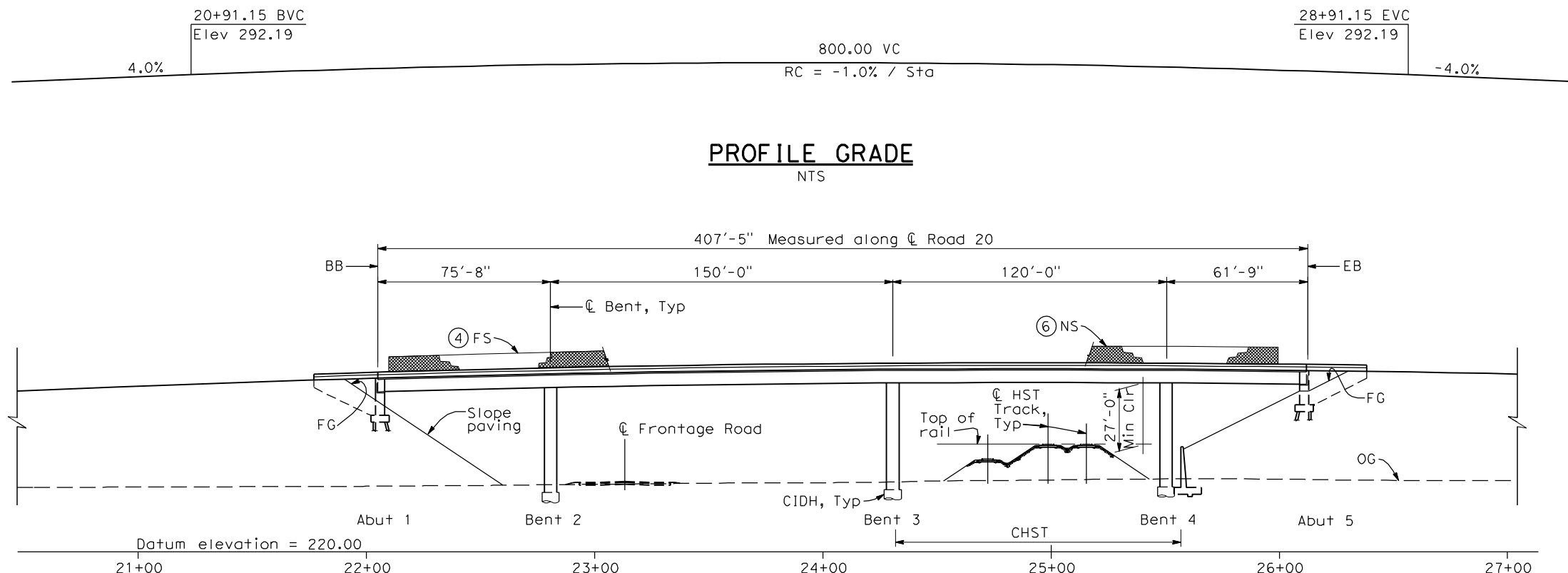
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE CONNECTION
AVENUE 21
AVENUE 22 OVERHEAD
PLANNING STUDY

CONTRACT NO.	HSR06-007
DRAWING NO.	ST1021
SCALE	As shown
SHEET NO.	OF

4/28/2011 5:05:20 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21WYE-WF-ST-OH_Rd_20.dgn



TYPICAL SECTION

1" = 10'-0"

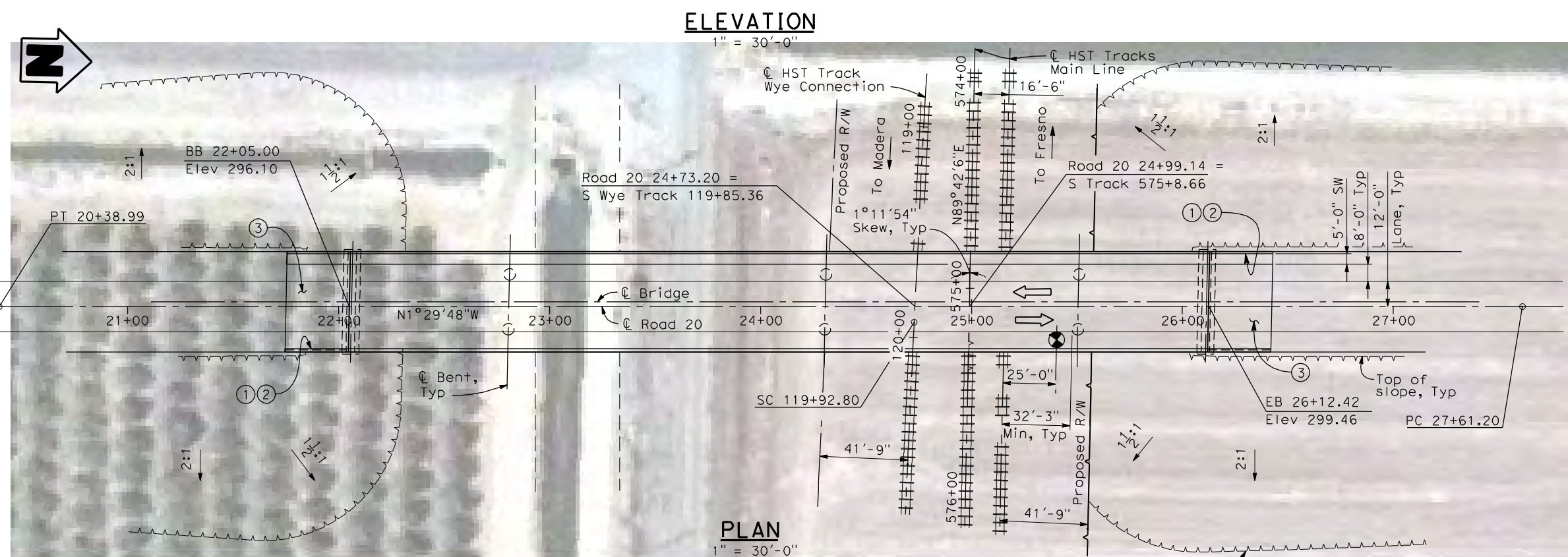
NOTES:

- ① Paint "Bridge No. XX-XX"
- ② Paint "Road 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
- ▬ Retaining Wall

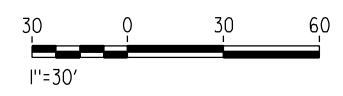
DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 407'-5"
WIDTH	= 47'-6"
AREA	= 19,350 ft ²
COST/CFE INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____



PLAN

1" = 30'-0"

LOCATION 25



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

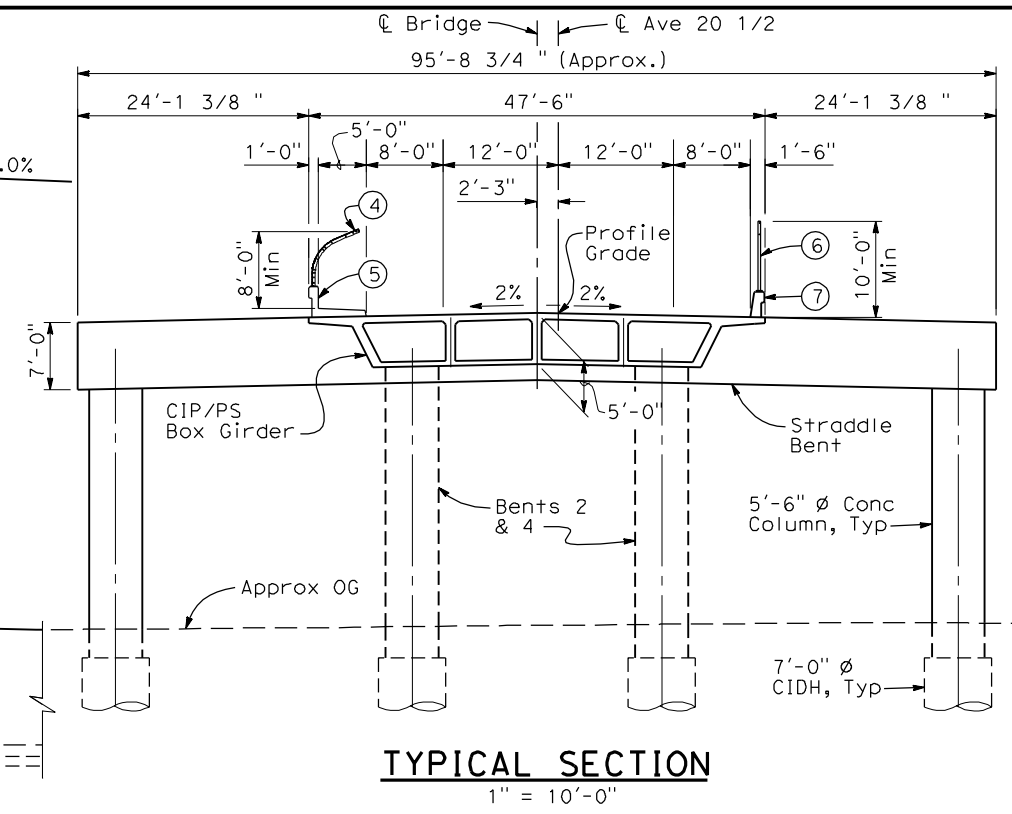
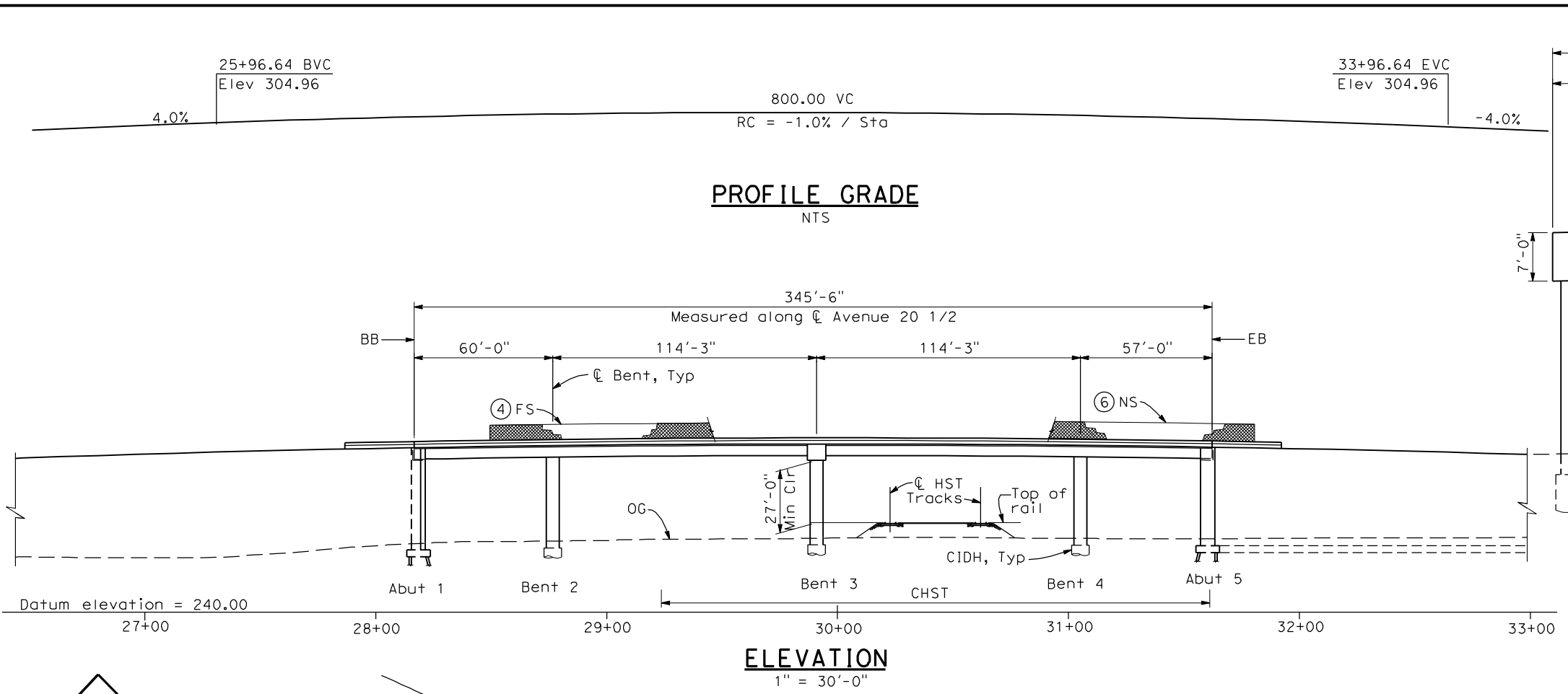
NOT FOR
CONSTRUCTION



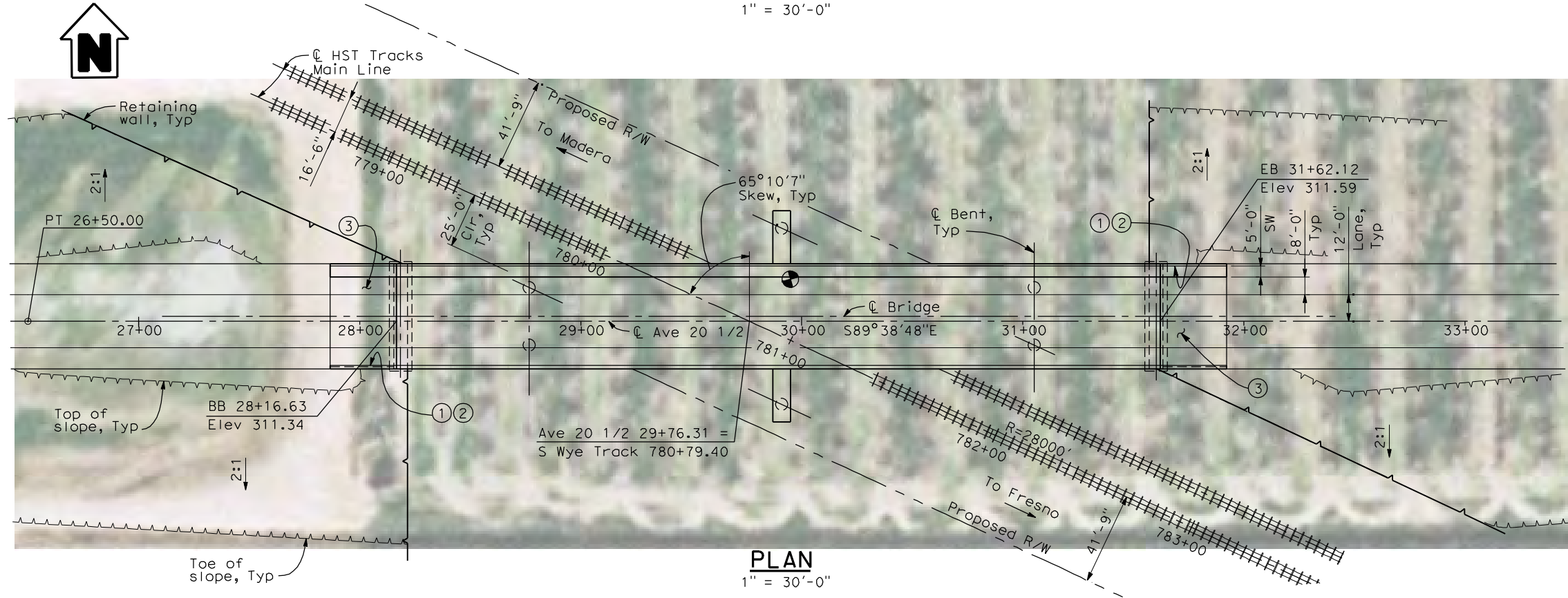
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
ROAD 20 OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1026
SCALE
As shown
SHEET NO.
OF

4/28/2011 5:00:19 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A1\15%_cost_reduction_submittal\GradeStructure\A1-21\WE-WF-ST-OH_Ave_20-5.dgn



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "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
 - Retaining Wall



LOCATION 23

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 5'-0"
LENGTH	= 345'-6"
WIDTH	= 47'-6"
AREA	= 16,410 ft ²
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____

Scale: 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

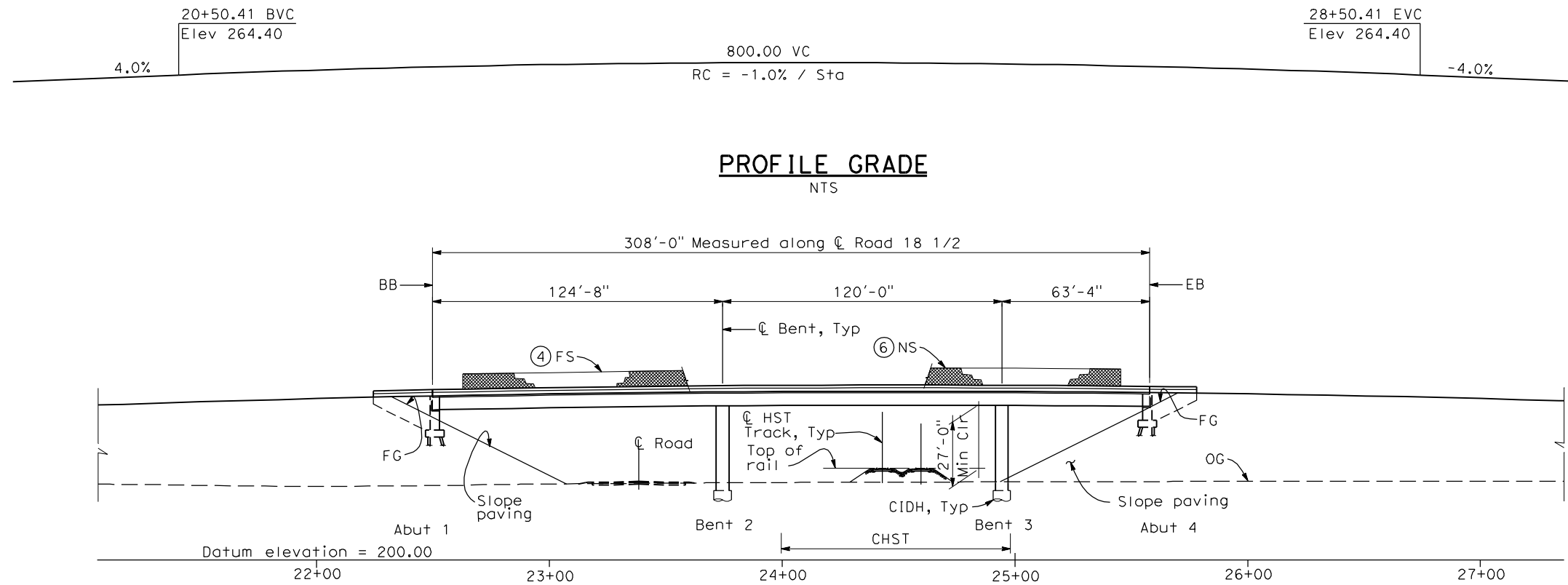
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 20 1/2 OVERHEAD
PLANNING STUDY

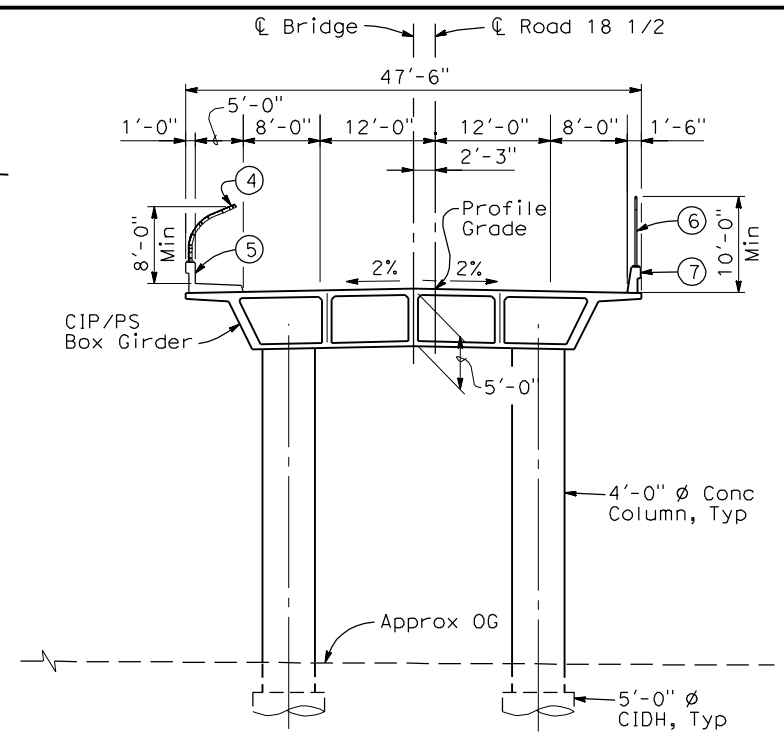
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1023
SCALE
As shown
SHEET NO.
OF

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PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"

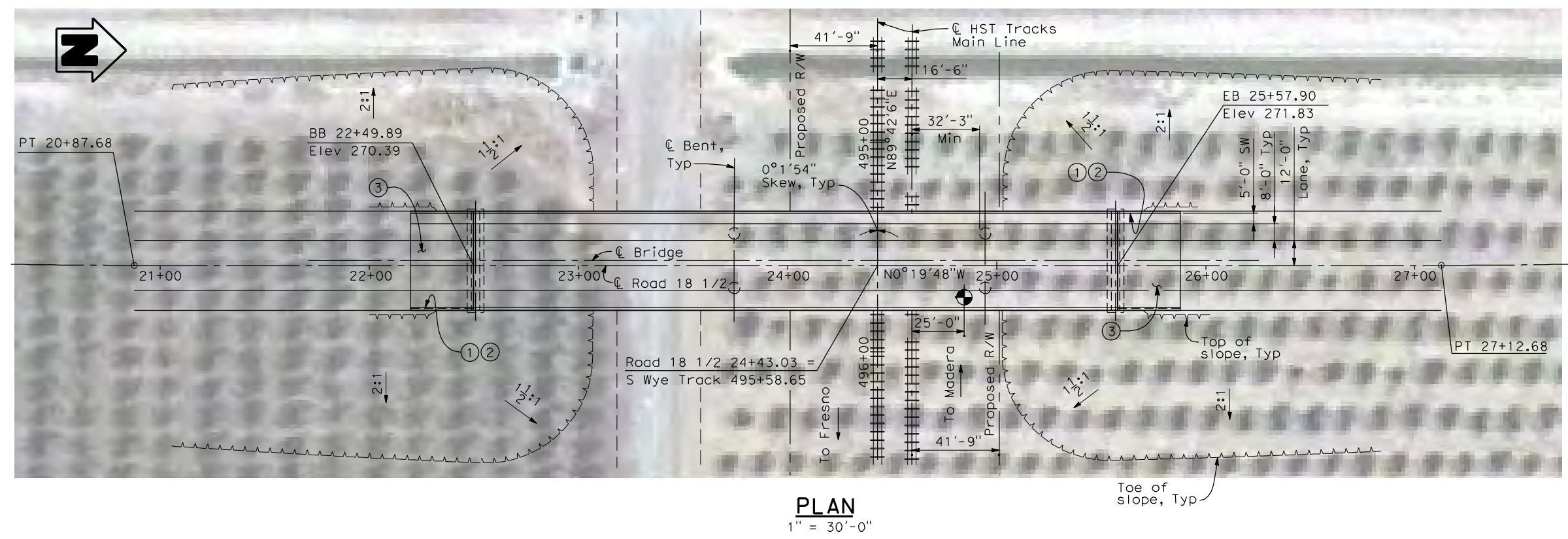


TYPICAL SECTION
1" = 10'-0"

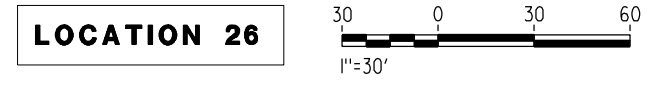
- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Road 18 1/2 OH"
 - ③ Structure Approach Slab Type N (30S)
 - ④ Chain Link Railing Type 3
 - ⑤ Concrete Barrier Type 26 (Mod)
 - ⑥ Chain Link Railing Type 7 (Mod)
 - ⑦ Concrete Barrier Type 732
 8. Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	=	_____
BRIDGE REMOVAL	=	_____
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	308'-0"
WIDTH	=	47'-6"
AREA	=	14,630 ft ²
COST/ CFT 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

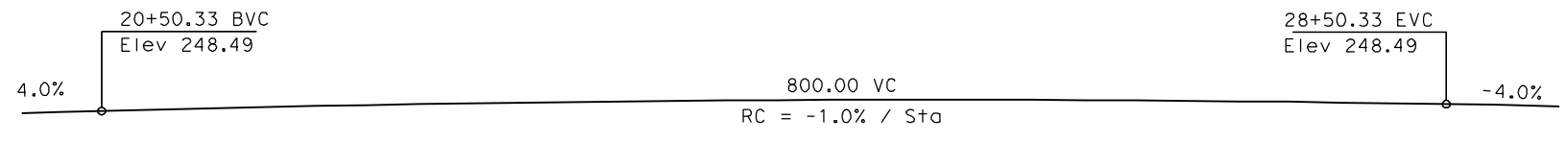
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

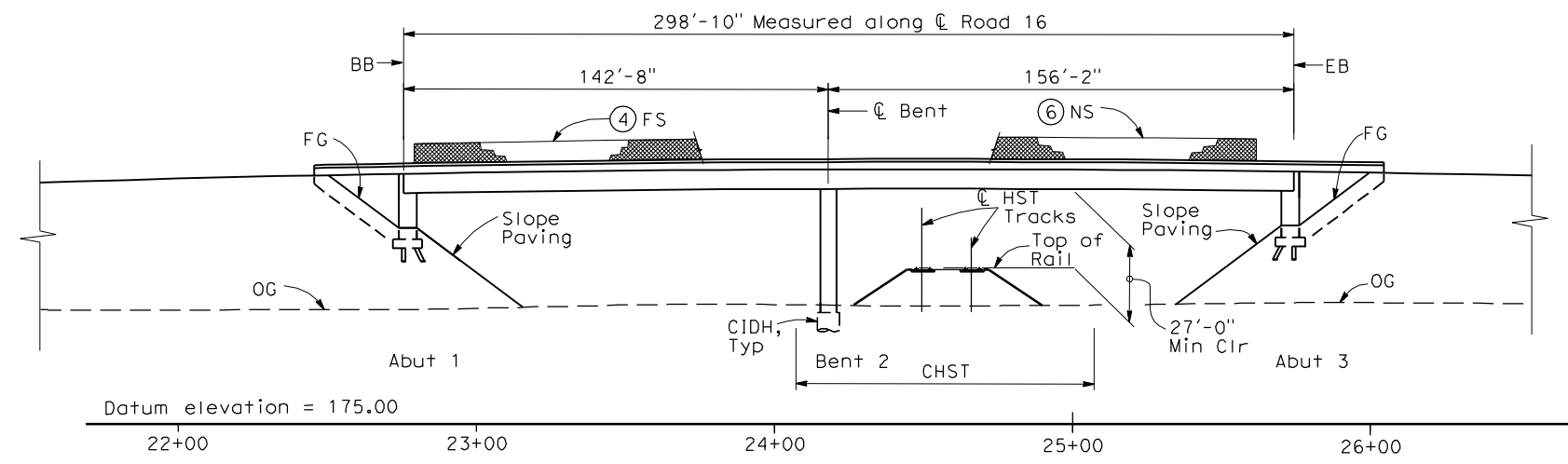


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
ROAD 18 1/2 OVERHEAD
PLANNING STUDY

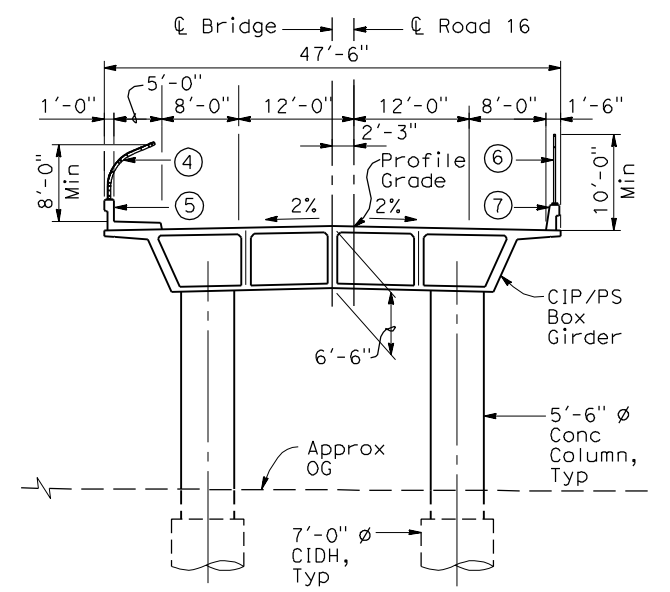
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1027
SCALE
As shown
SHEET NO.
OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

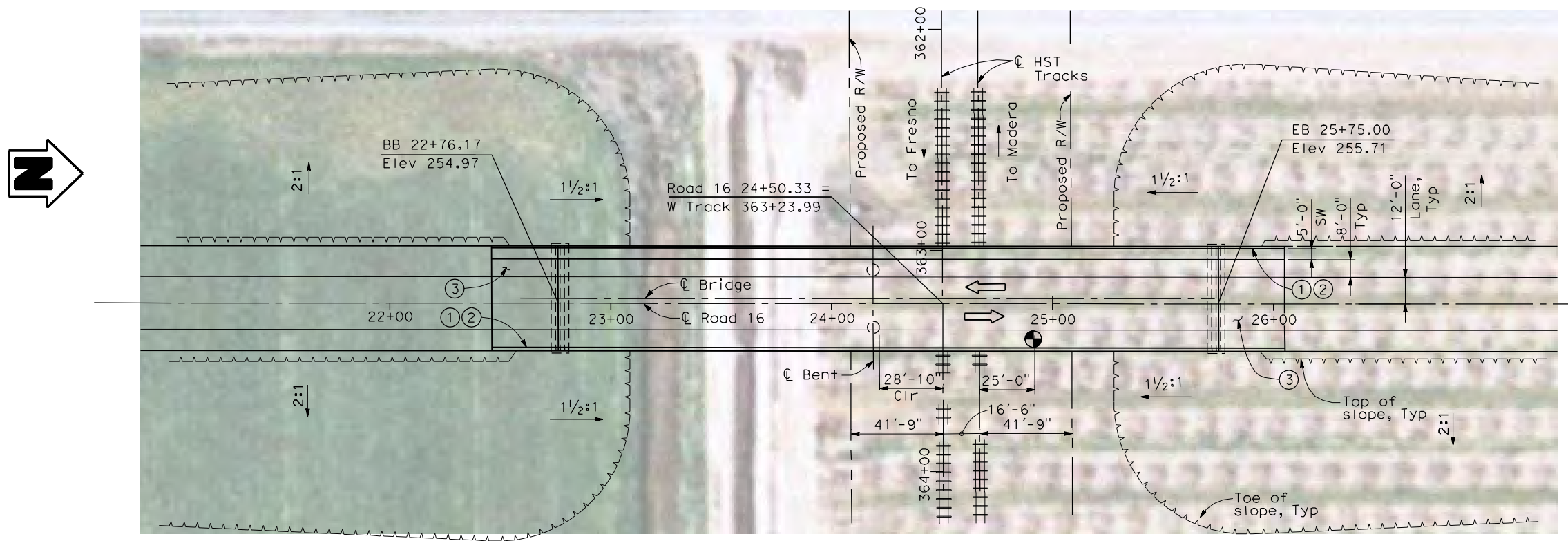
- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Road 16 OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Bearing of Road 16 to be determined.
 - Existing underground and overhead utilities to be determined.

- LEGEND:**
- ← Direction of traffic
 - Point of minimum vertical clearance

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-6"
LENGTH	=	298'-10"
WIDTH	=	47'-6"
AREA	=	14,190 ft ²
COST / DFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



LOCATION 27



PLAN
1" = 30'-0"

4/30/2011 4:19:46 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\Oakland\W-MF-ST1028.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

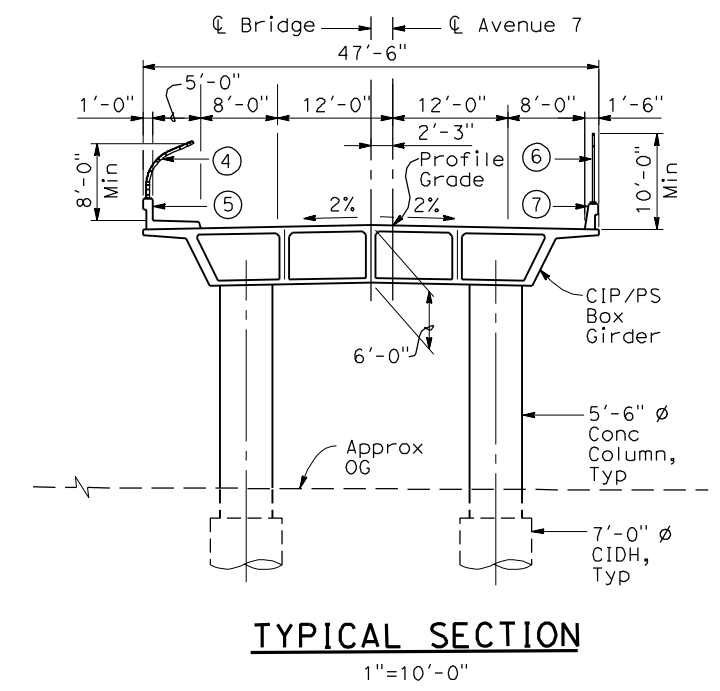
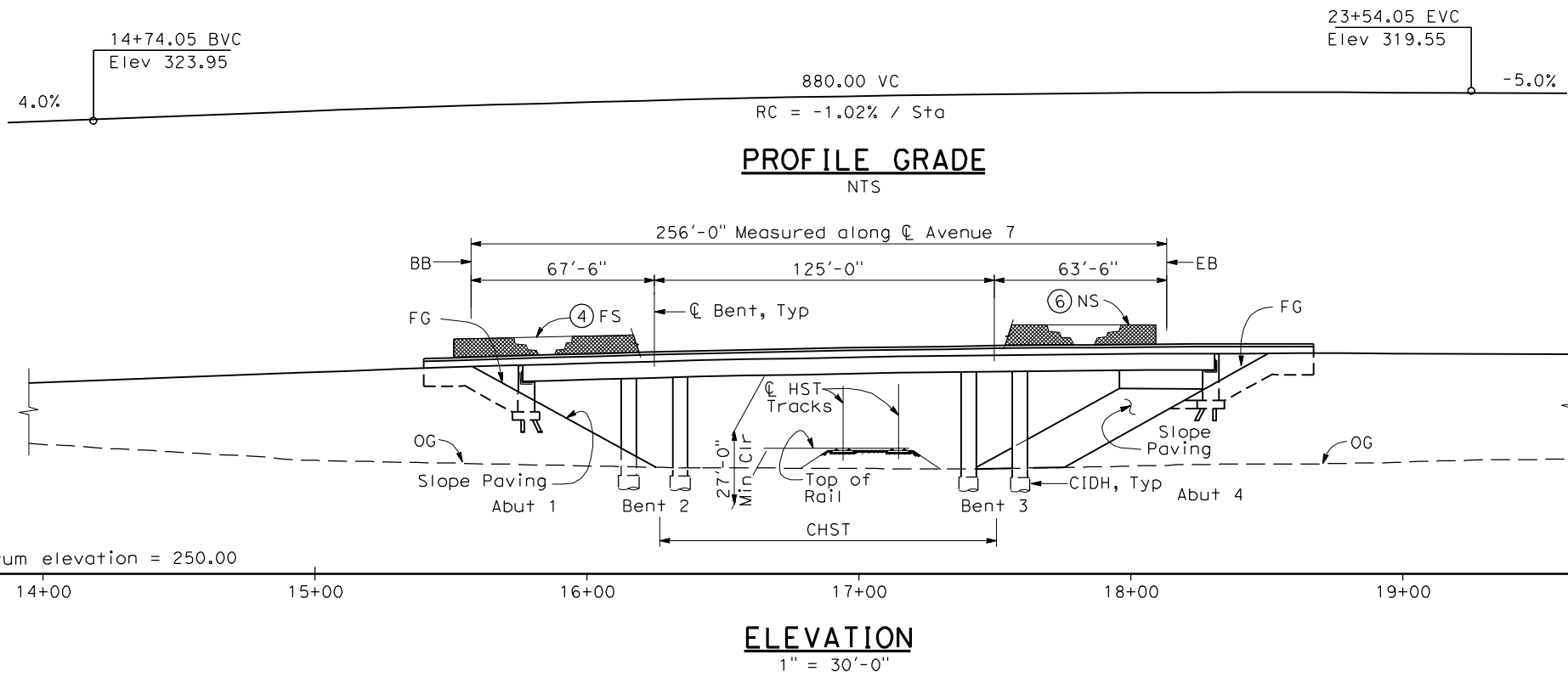
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
ROAD 16 OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1028
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
 8. Bearing of Avenue 7 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"

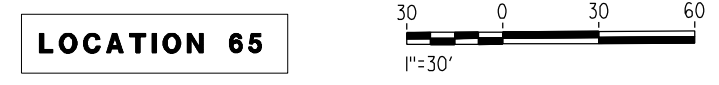
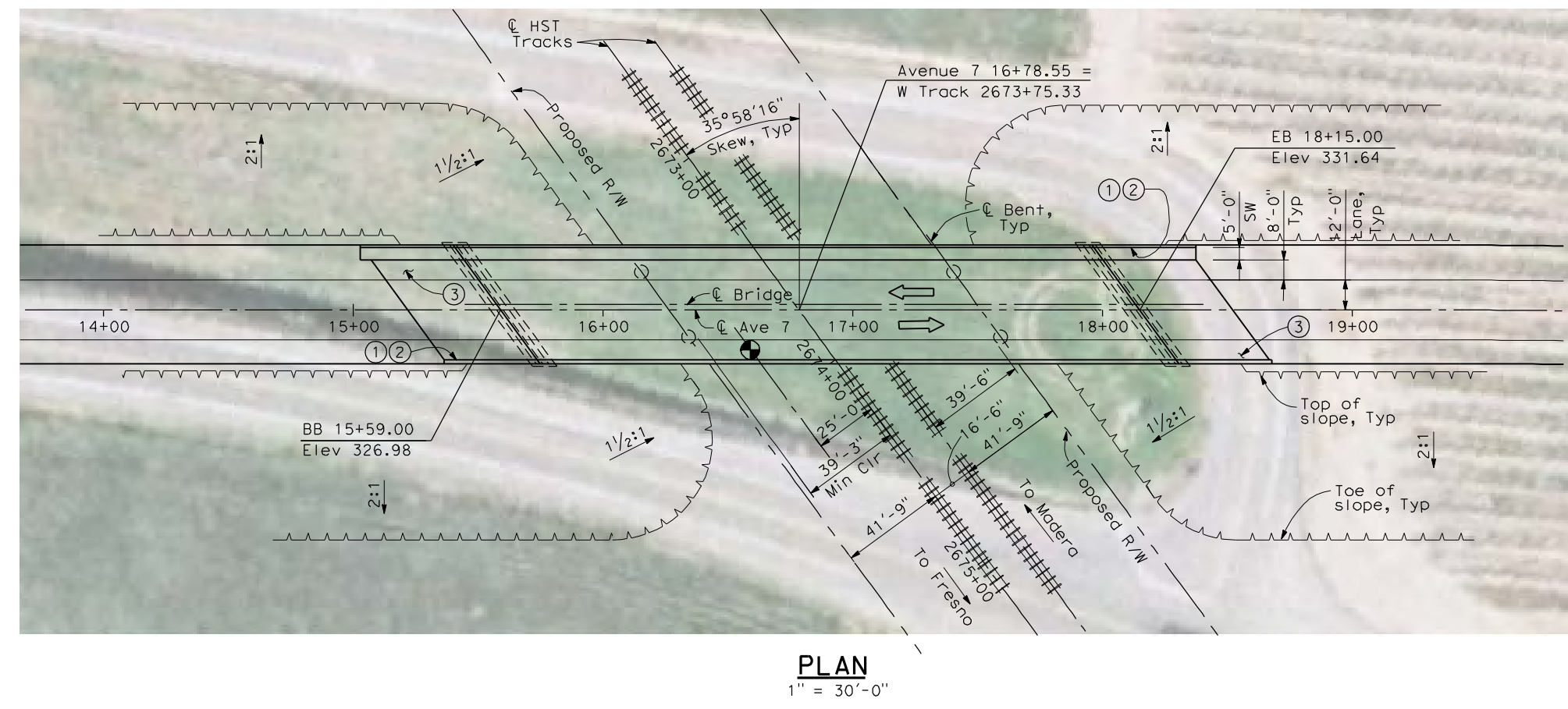
LENGTH = 256'-0"

WIDTH = 47'-6"

AREA = 12,160 ft²

COST / OFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____



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

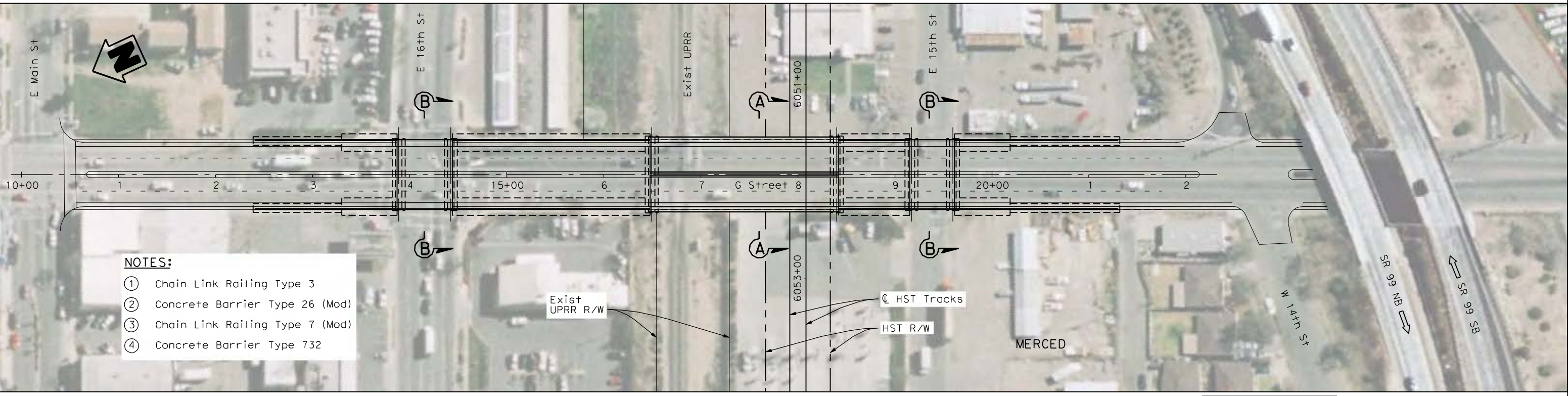
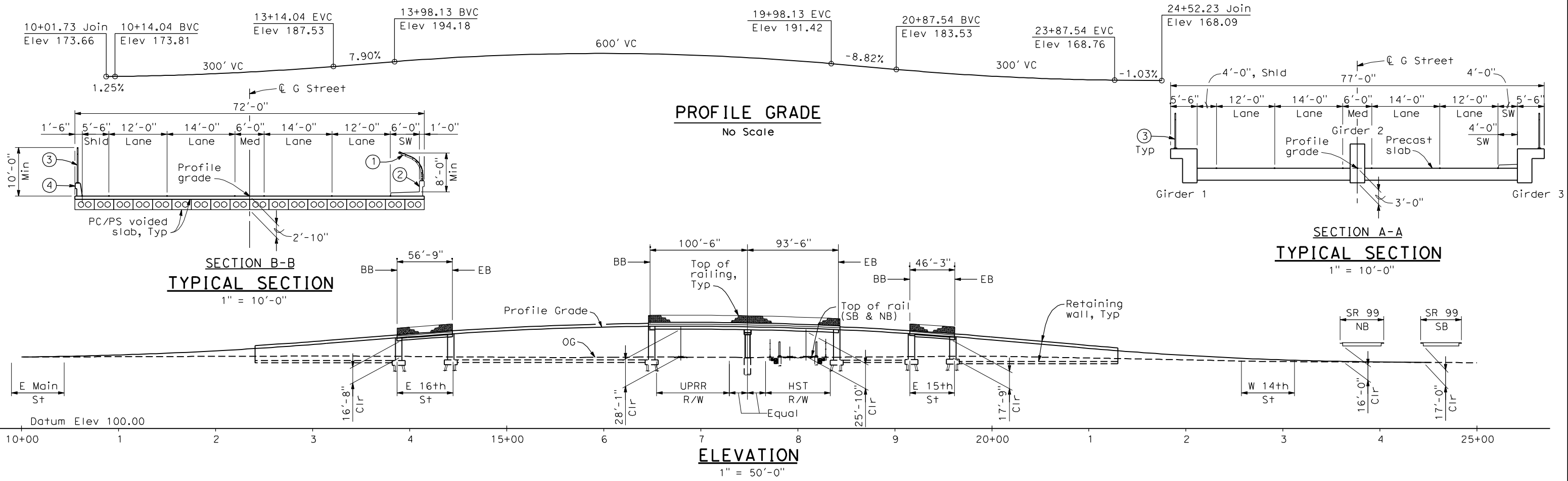
CONTRACT NO.
HSR06-007

DRAWING NO.
ST1070

SCALE
AS SHOWN

SHEET NO.
OF

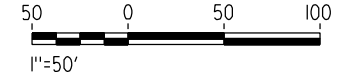
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- NOTES:**
- ① Chain Link Railing Type 3
 - ② Concrete Barrier Type 26 (Mod)
 - ③ Chain Link Railing Type 7 (Mod)
 - ④ Concrete Barrier Type 732

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

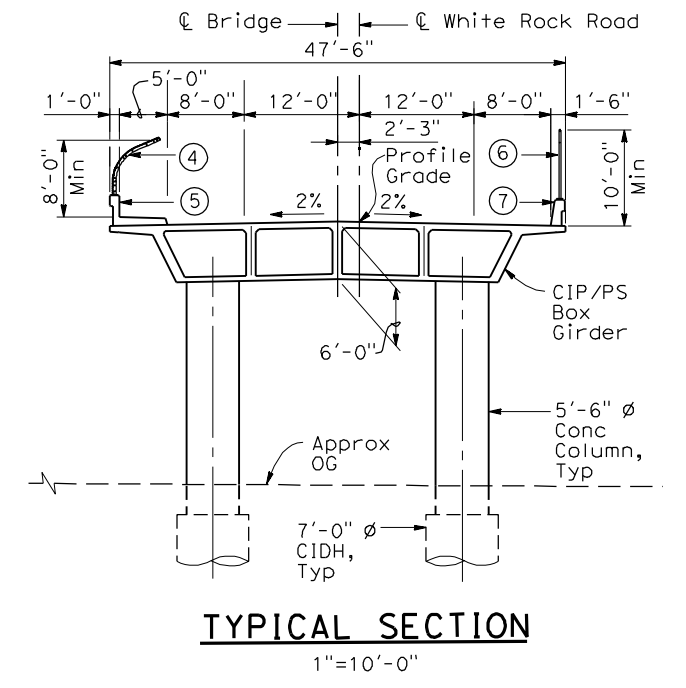
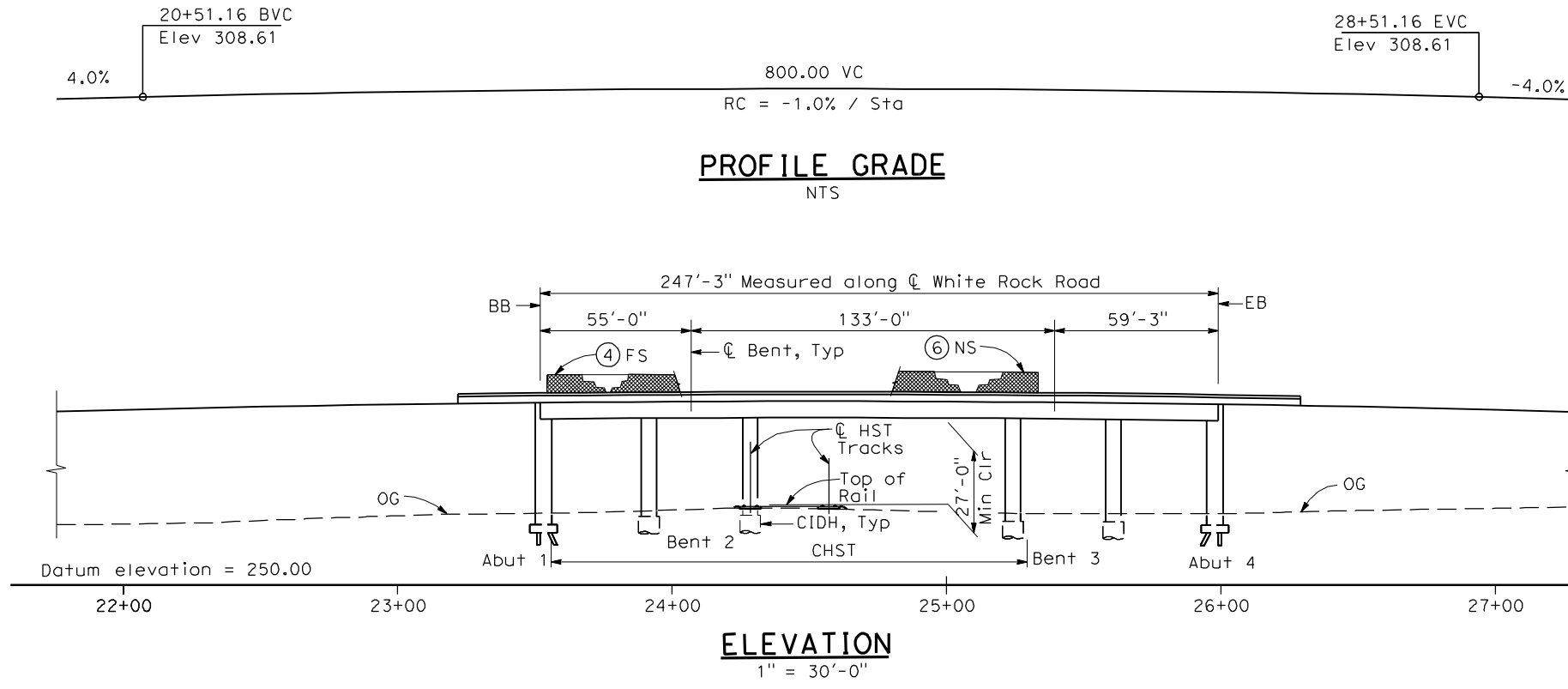
RECORD SET
15% DESIGN
SUBMITTAL

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
G STREET OVERHEAD
PLANNING STUDY

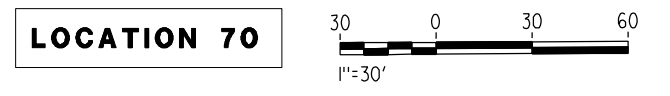
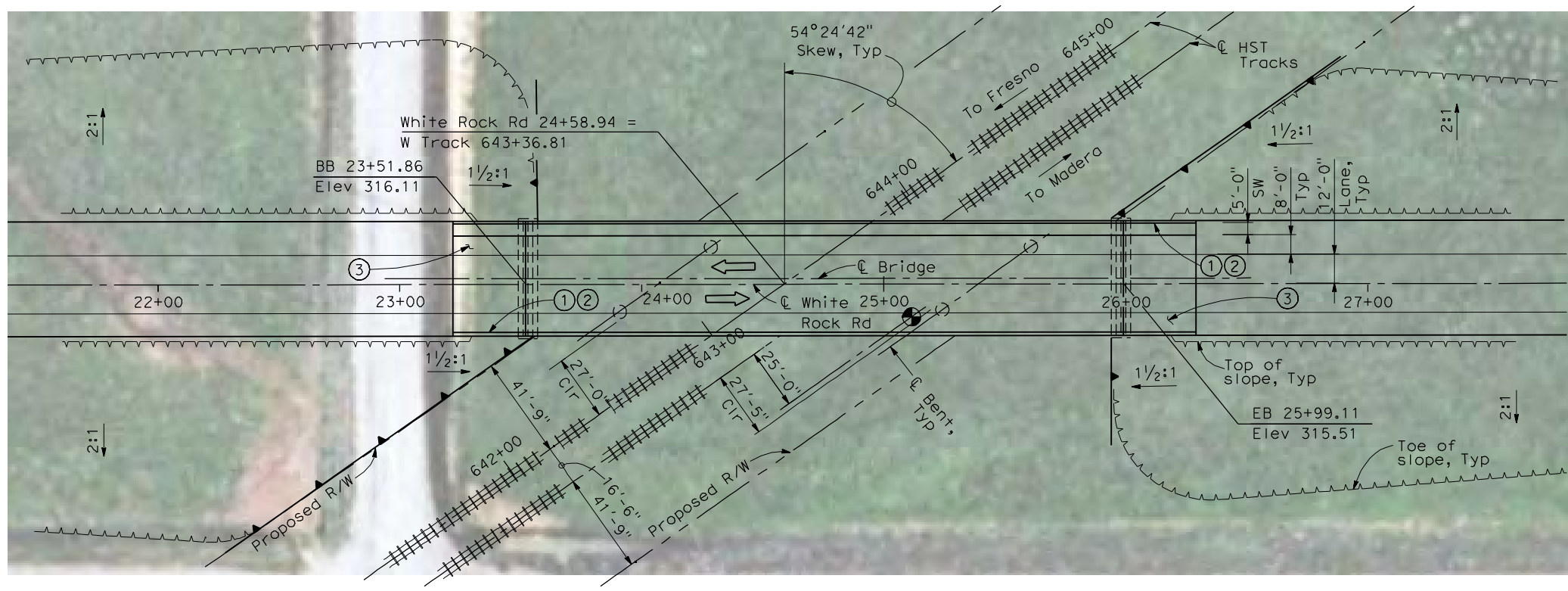
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1180
SCALE
As shown
SHEET NO.
OF



- 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

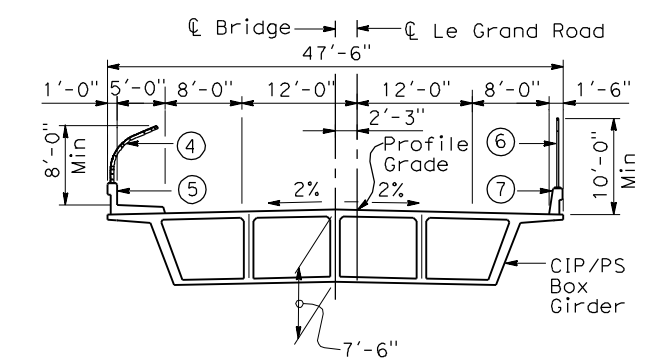
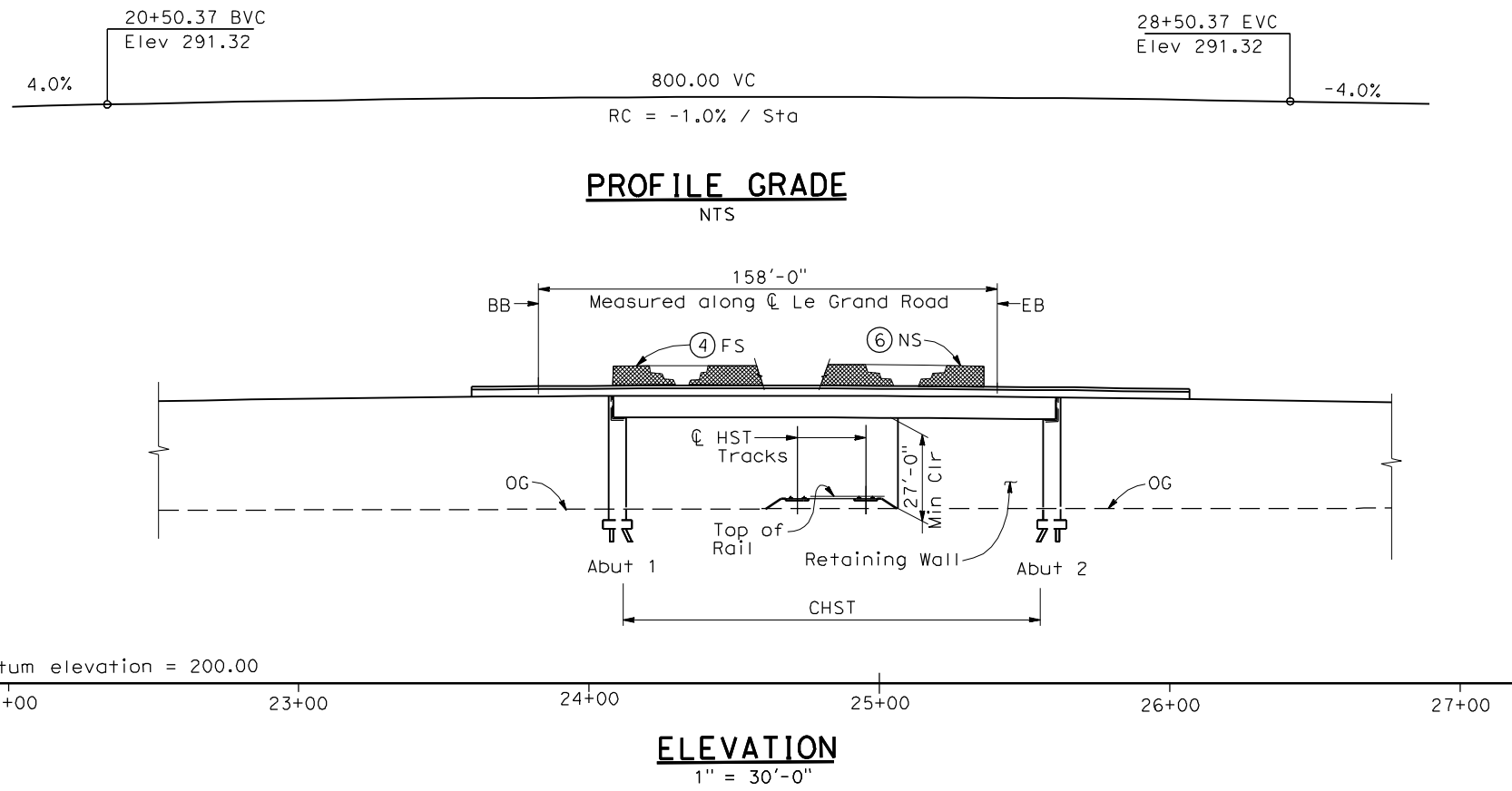
DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	247'-3"
WIDTH	=	47'-6"
AREA	=	11,740 ft ²
COST/DFt INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



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	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	 <small>Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</small> 	 CALIFORNIA <small>HIGH-SPEED RAIL AUTHORITY</small>	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
DRAWN BY J. HODELL					DRAWING NO. ST1050
CHECKED BY L. LEUNG					SCALE AS SHOWN
IN CHARGE A. BOONE					SHEET NO. OF
DATE 04/29/2011					

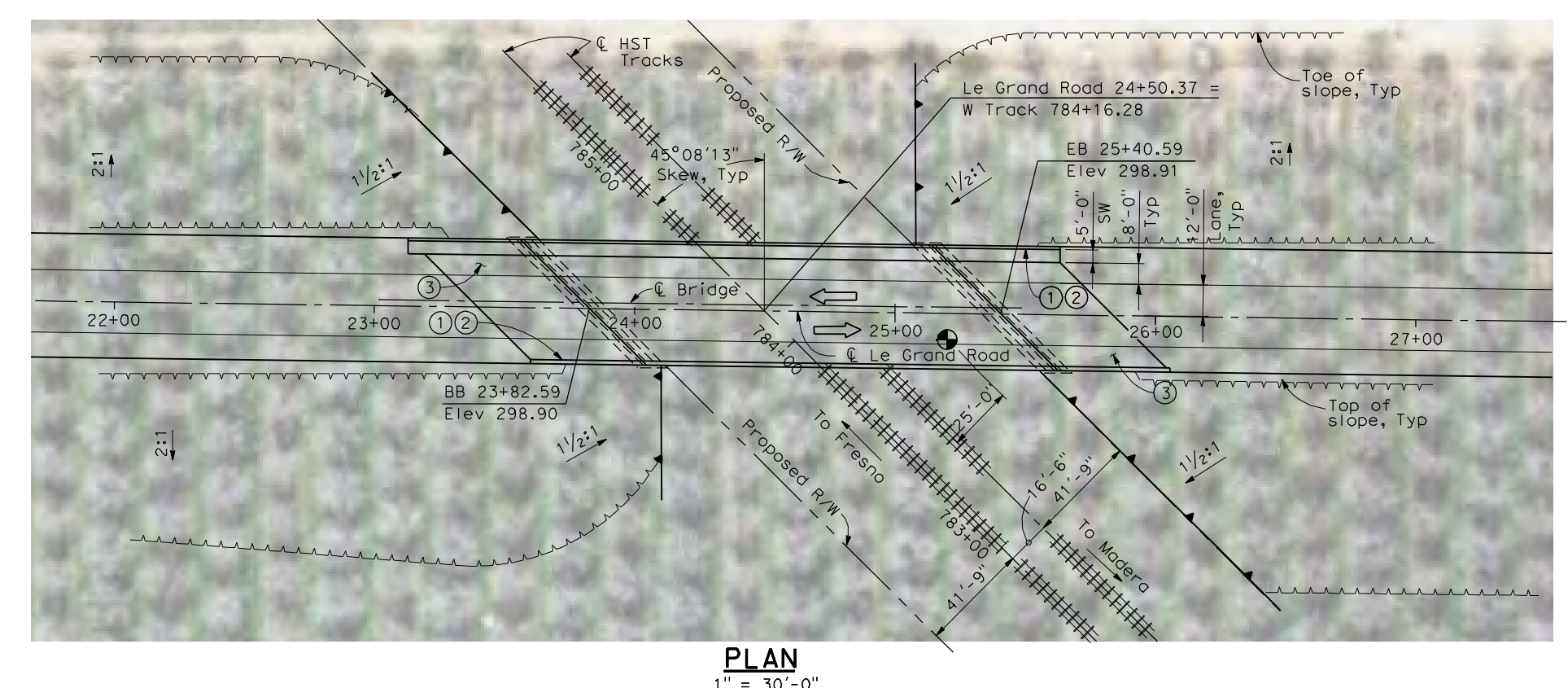
REV	DATE	BY	CHK	APP	DESCRIPTION



- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Le Grand Road 0H"
 - 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 Le Grand 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	=	7'-6"
LENGTH	=	158'-0"
WIDTH	=	47'-6"
AREA	=	7,510 ft ²
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

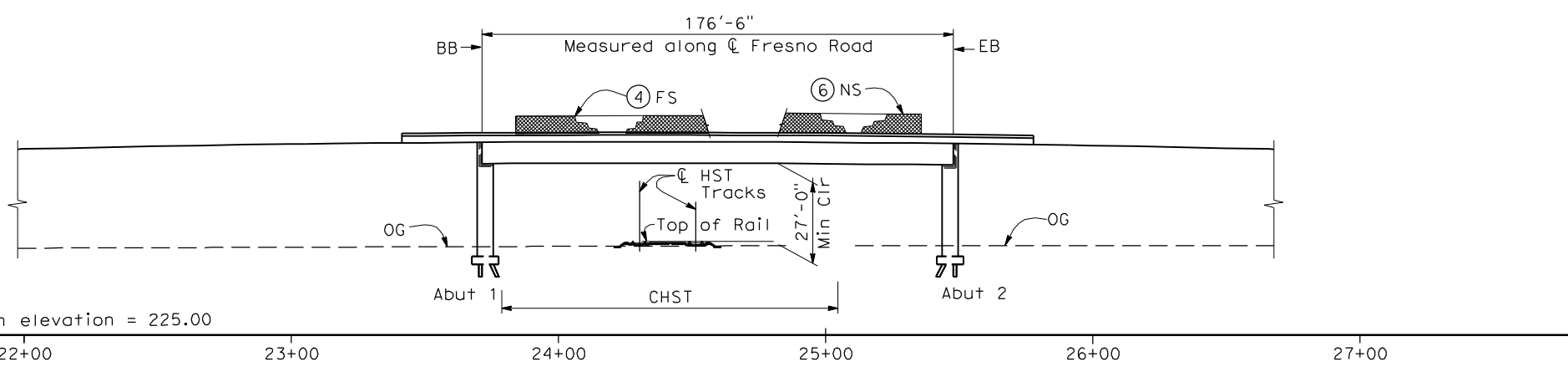
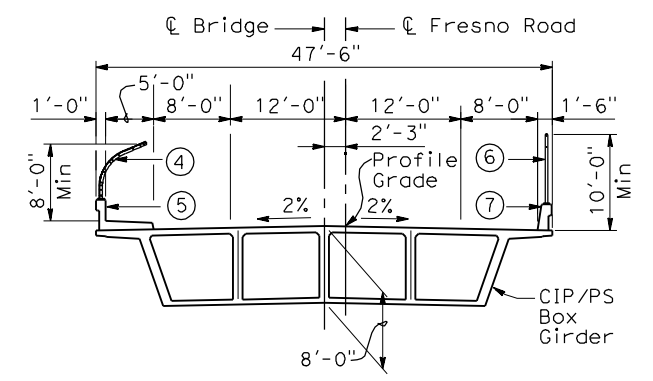
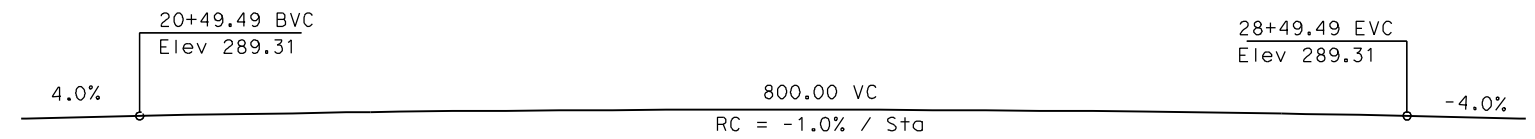


LOCATION 71



4/30/2011 4:20:54 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-MF-ST1051.dgn

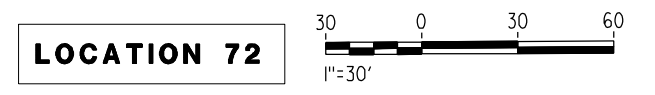
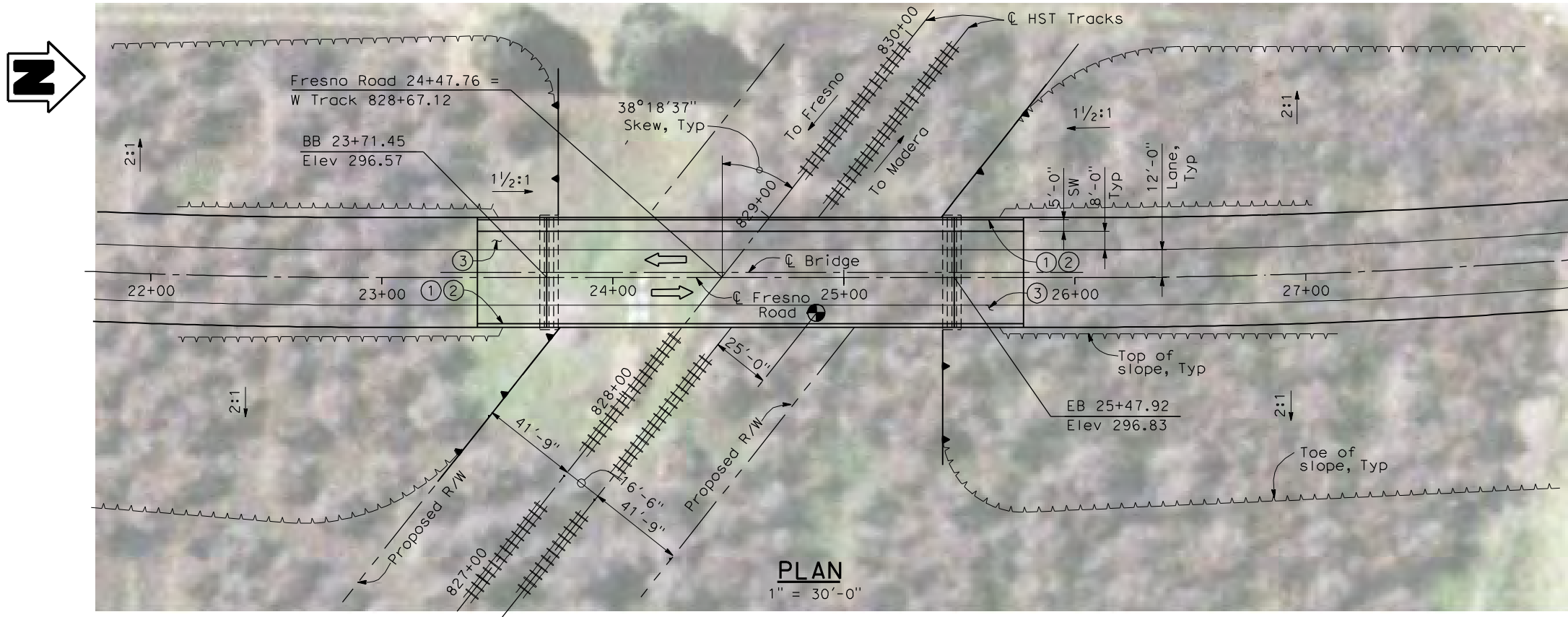
DESIGNED BY H. LEE	RECORD SET 15% DESIGN SUBMITTAL	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MERCED CONNECTION (ALTERNATIVE 1) AVENUE 21/AVENUE 24 LE GRAND ROAD OVERHEAD PLANNING STUDY	CONTRACT NO. HSR06-007
DRAWN BY J. HODELL	NOT FOR CONSTRUCTION				DRAWING NO. ST1051
CHECKED BY L. LEUNG					SCALE AS SHOWN
IN CHARGE A. BOONE					SHEET NO. OF
DATE 04/29/2011					



- 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/□FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



4/30/2011 4:21:33 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct_Sheet\APS\A1\15%_cost_reduction_submittal\GradeStructure\From Oakland\W-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**

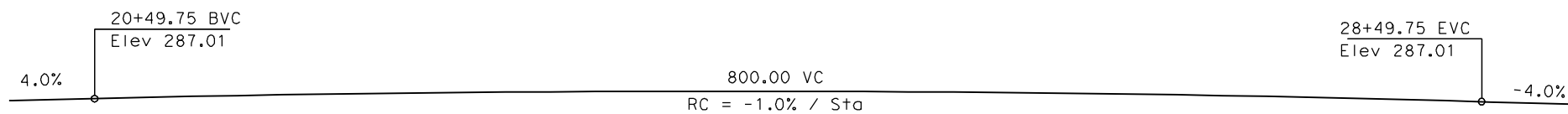
**NOT FOR
CONSTRUCTION**



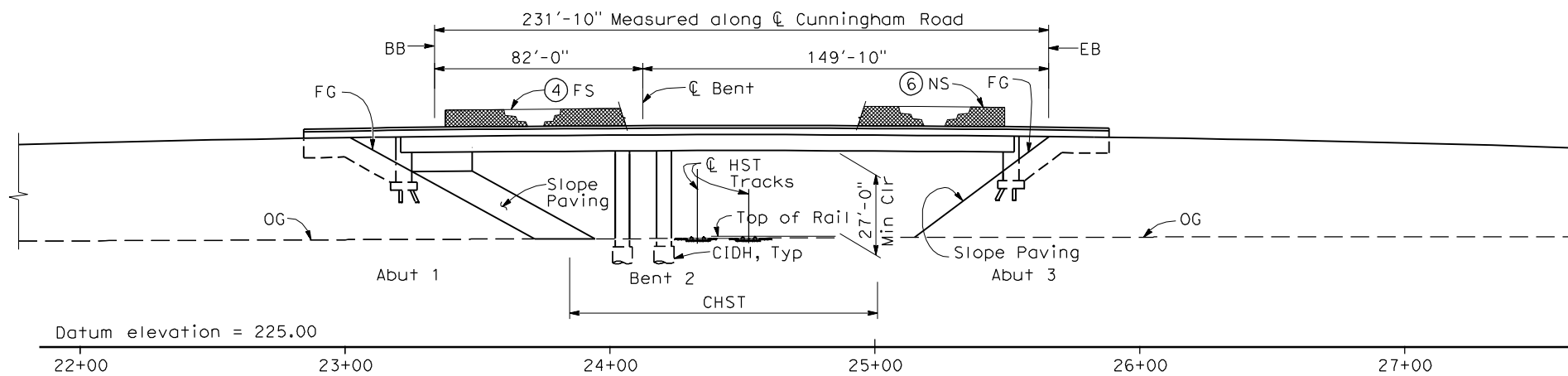
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION (ALTERNATIVE 1)
AVENUE 21/AVENUE 24
FRESNO ROAD OVERHEAD
PLANNING STUDY

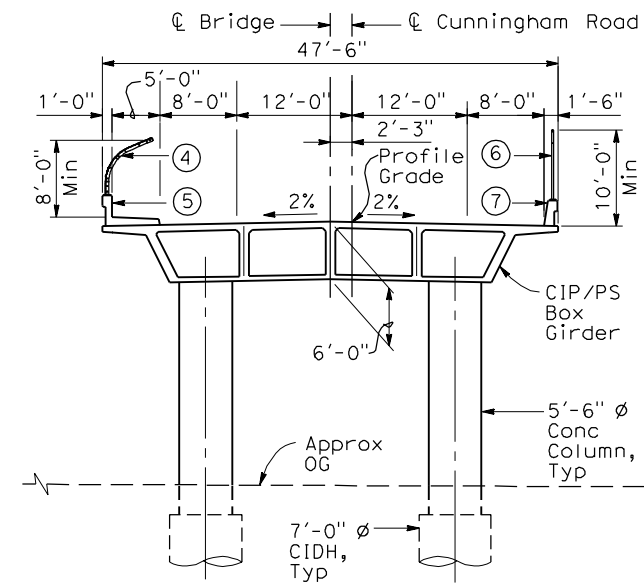
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1052
SCALE
AS SHOWN
SHEET NO.
OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

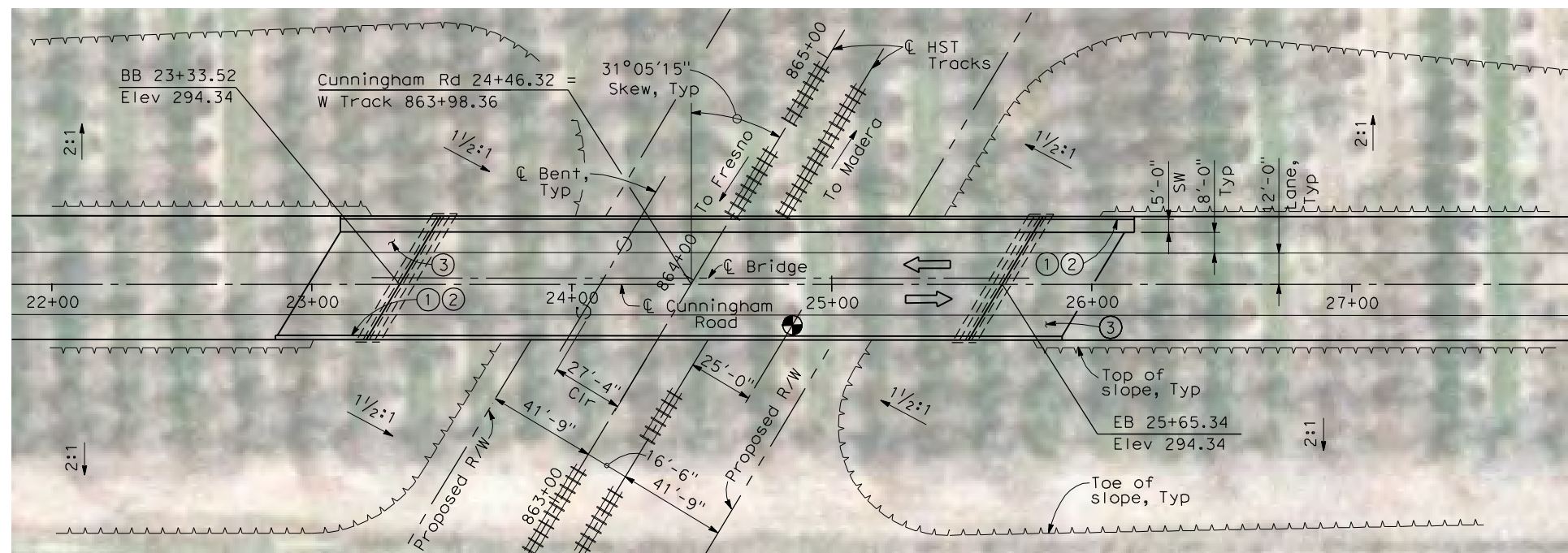
NOTES:

- 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:

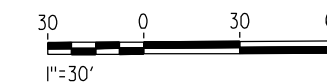
- ← Direction of traffic
- Point of minimum vertical clearance

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"

LOCATION 73



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

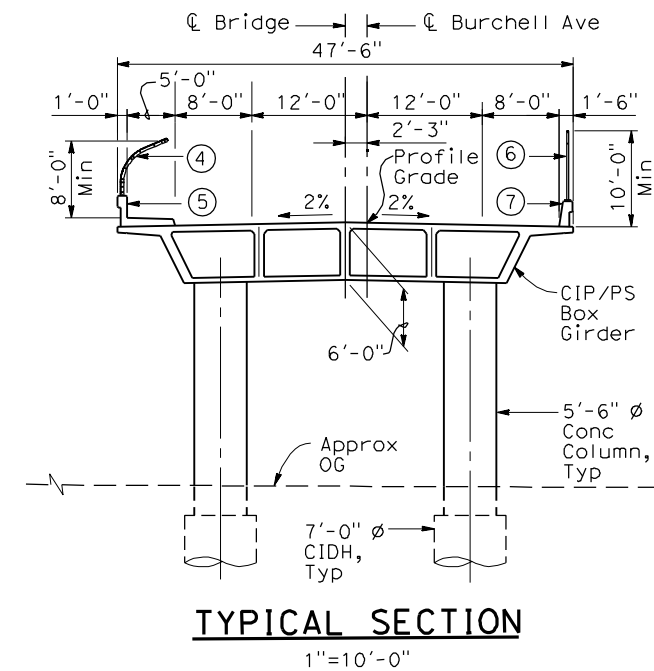
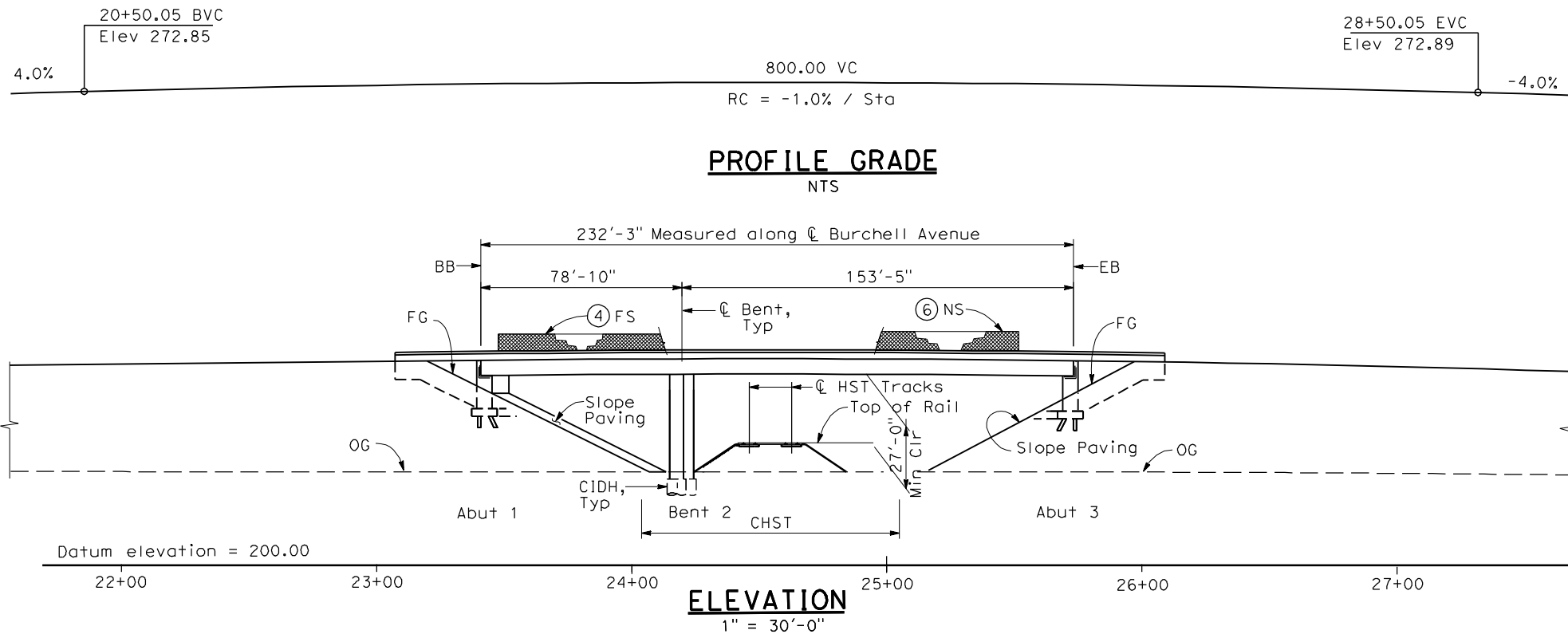
RECORD SET
15% DESIGN
SUBMITTAL

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

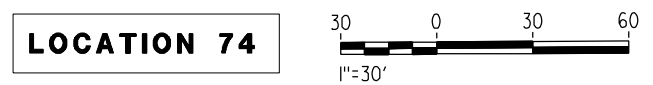
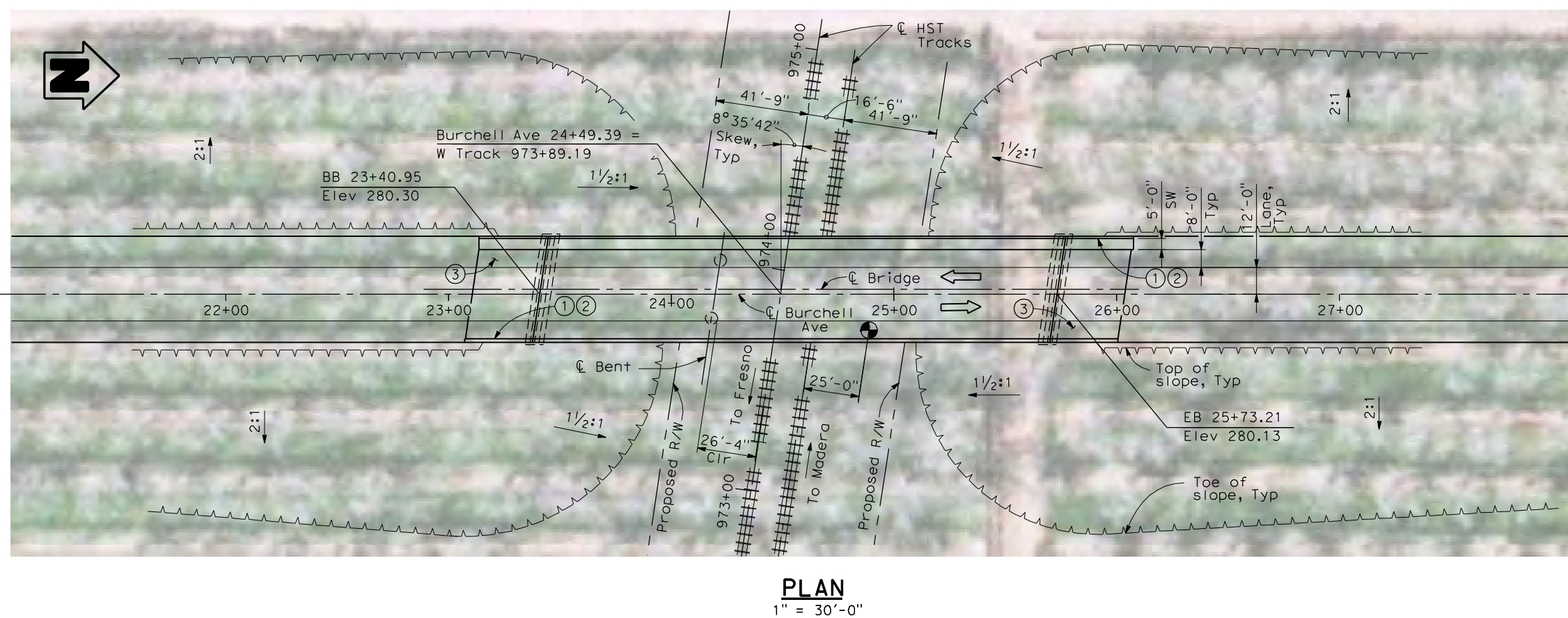
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1053
SCALE
AS SHOWN
SHEET NO.
OF



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Burchell Avenue 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	=	232'-3"
WIDTH	=	47'-6"
AREA	=	11,030 ft ²
COST / OFT 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

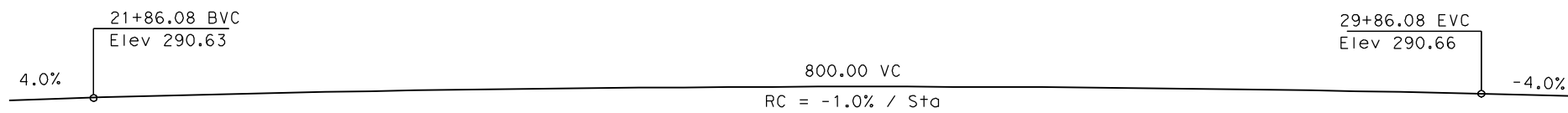
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

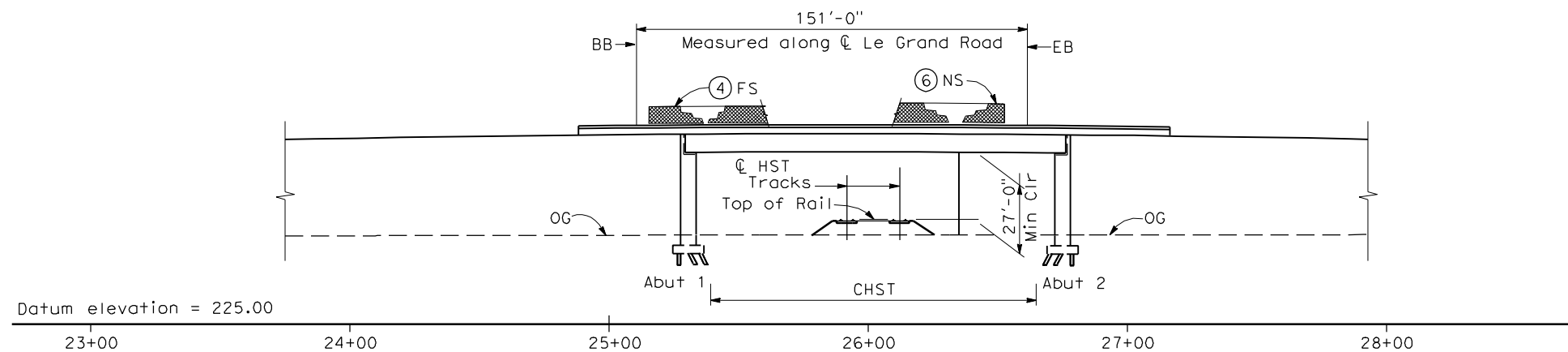


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 1)
AVENUE 21/AVENUE 24
BURCHELL AVENUE OVERHEAD
PLANNING STUDY

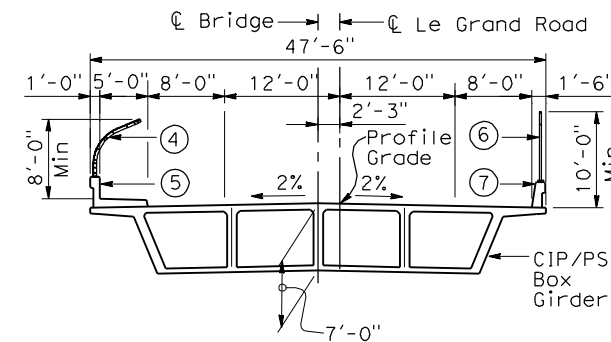
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1054
SCALE
AS SHOWN
SHEET NO.
OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

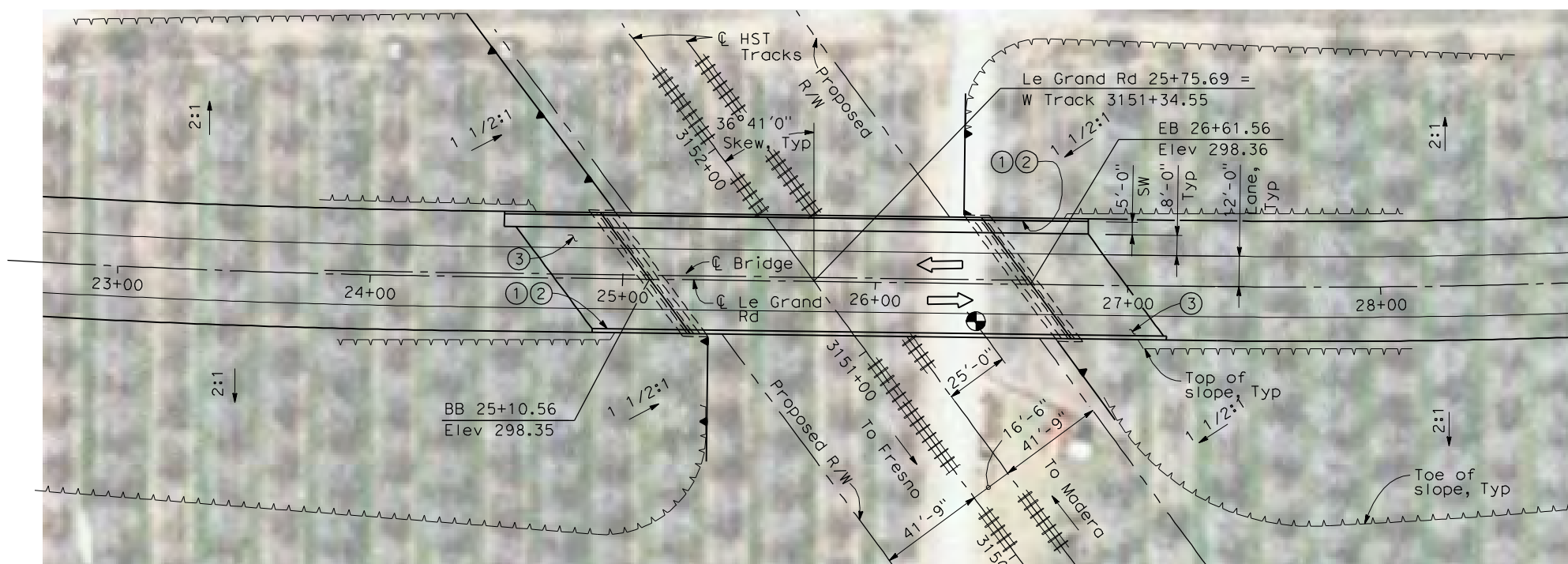
NOTES:

- 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:

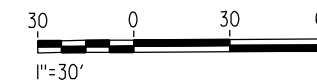
- ← Direction of traffic
- Point of minimum vertical clearance
- ▲ Retaining Wall

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

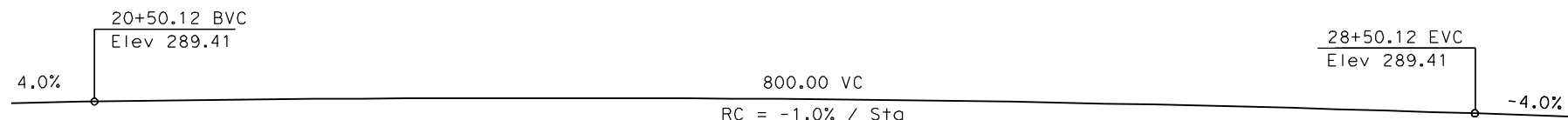
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

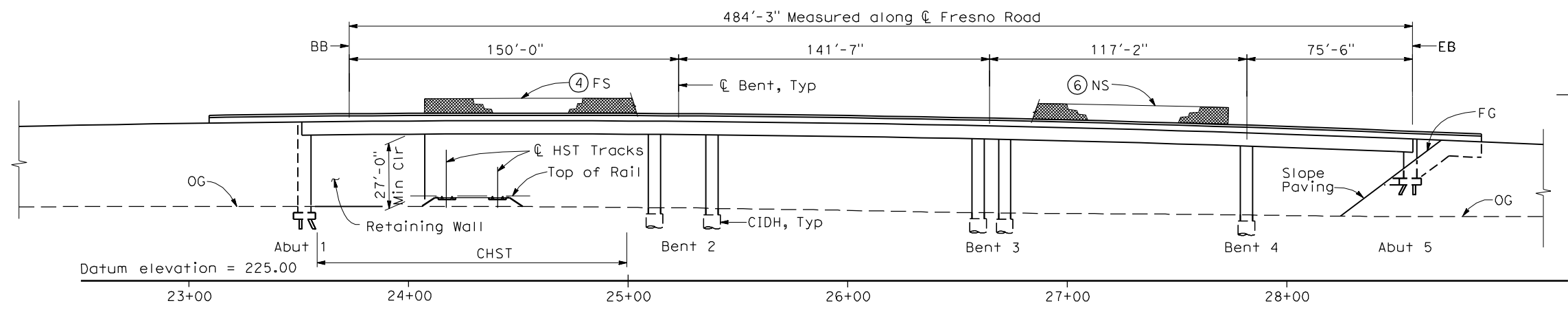
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 2)
AVENUE 21/AVENUE 24
LE GRAND ROAD OVERHEAD
PLANNING STUDY

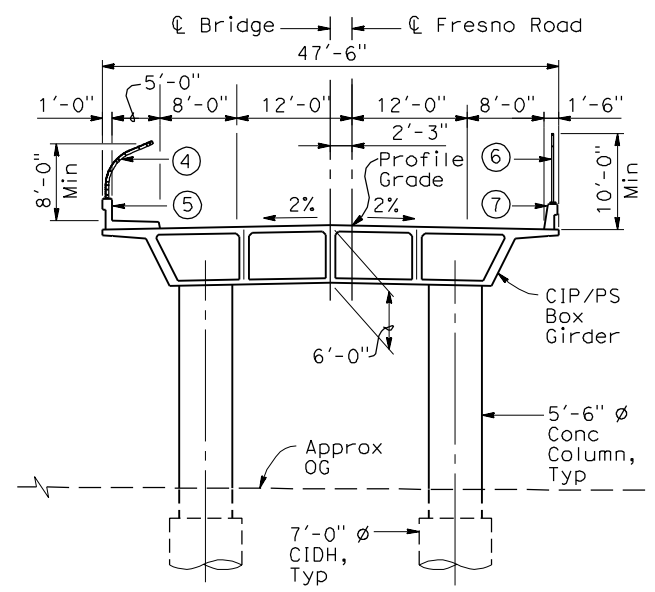
CONTRACT NO.	HSR06-007
DRAWING NO.	ST1055
SCALE	AS SHOWN
SHEET NO.	OF



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"

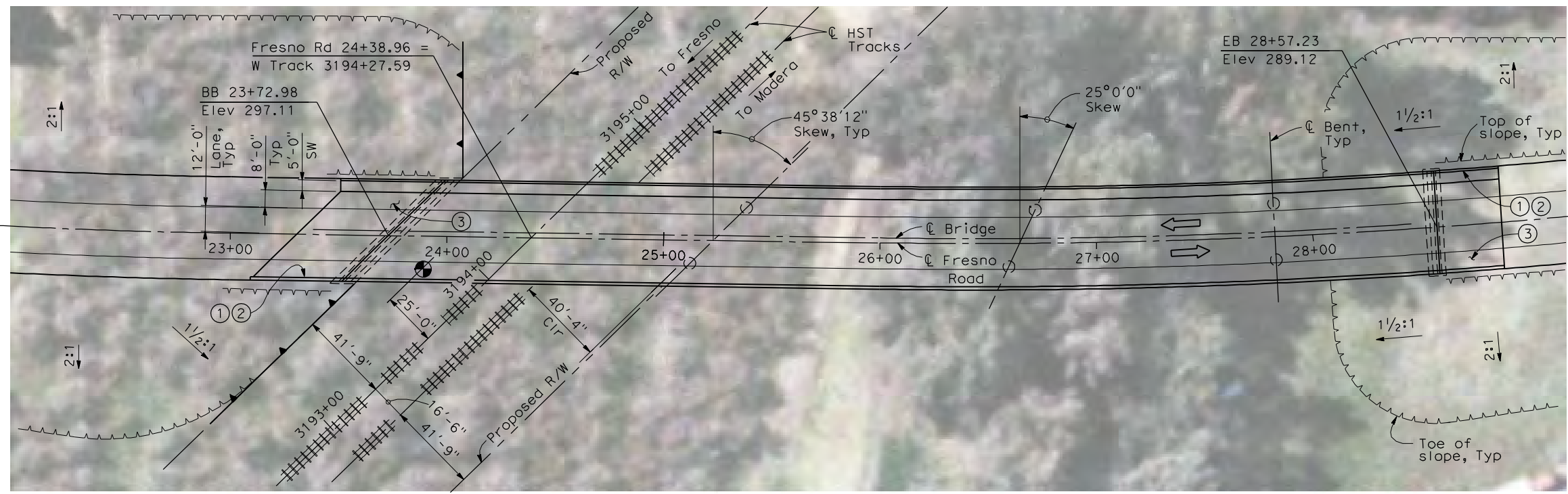


TYPICAL SECTION
1"=10'-0"

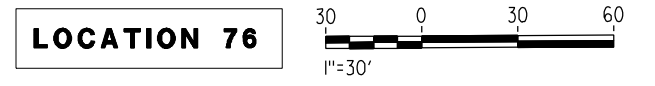
- NOTES:**
- Paint "Bridge No. XX-XX"
 - Paint "Fresno Road OH"
 - Structure Approach Slab Type N (30S)
 - Chain Link Railing Type 3
 - Concrete Barrier Type 26 (Mod)
 - Chain Link Railing Type 7 (Mod)
 - Concrete Barrier Type 732
 - Bearing of Fresno Road to be determined.
 - Existing underground and 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

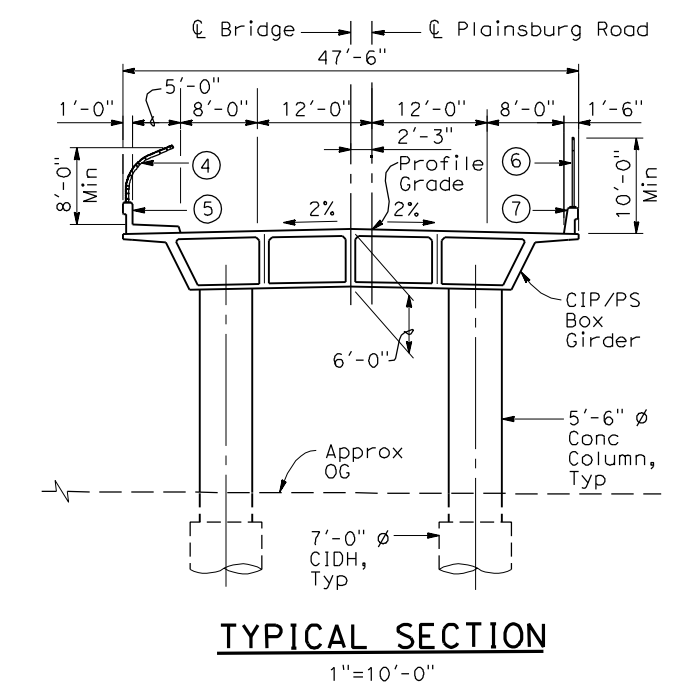
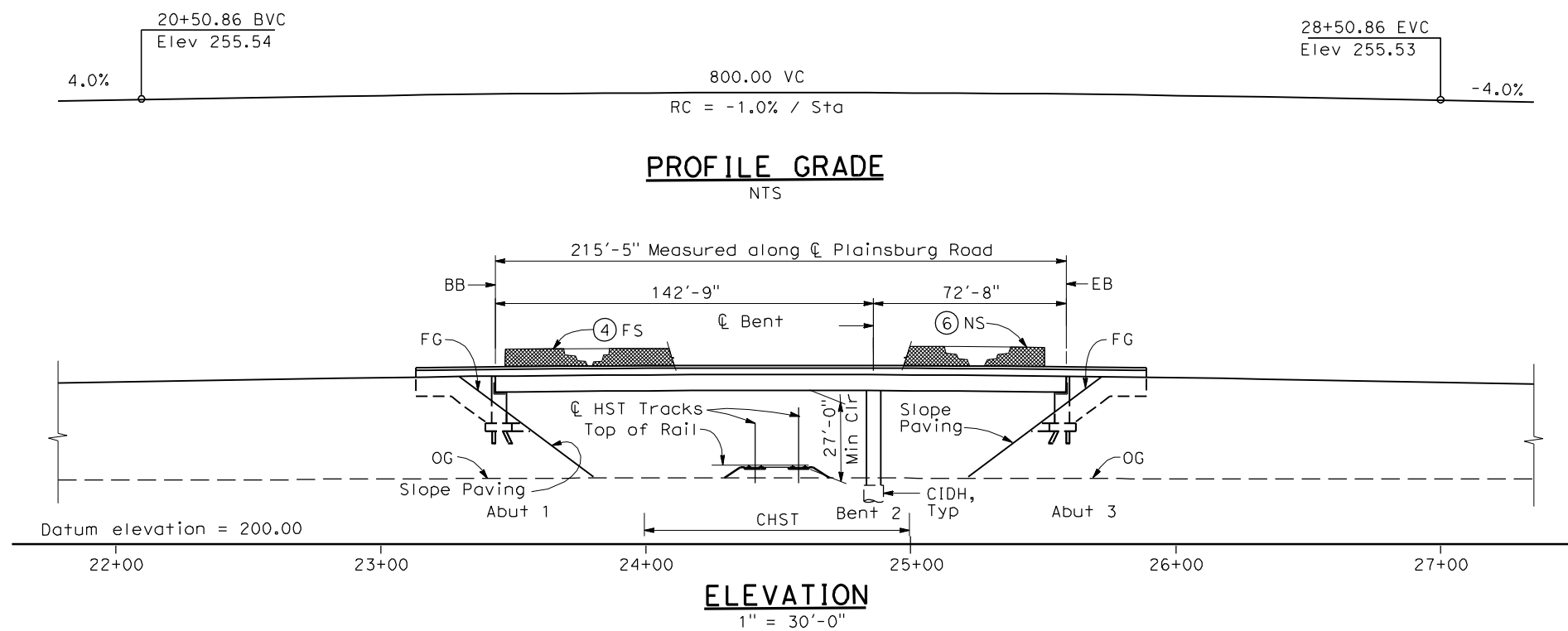
RECORD SET
15% DESIGN
SUBMITTAL

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

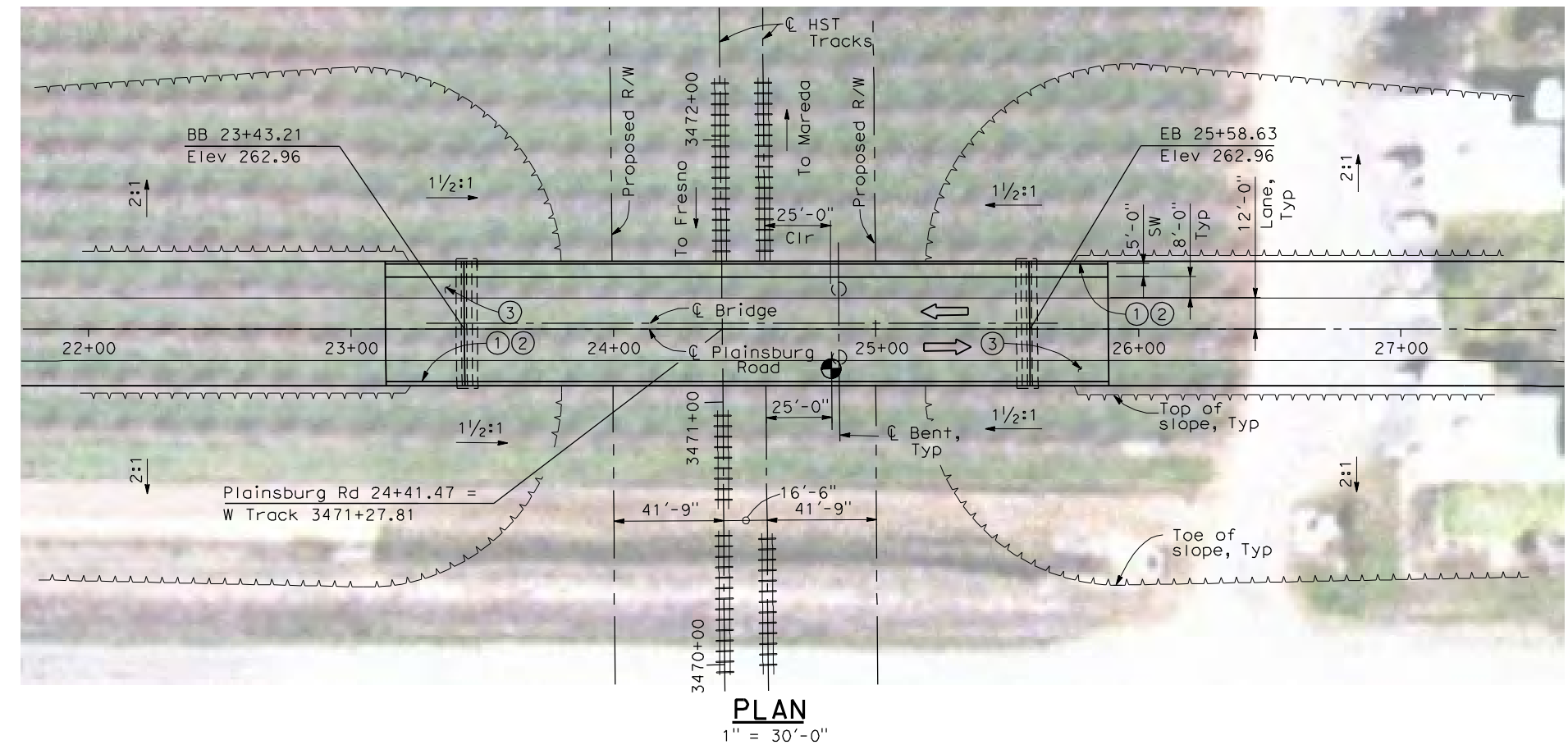
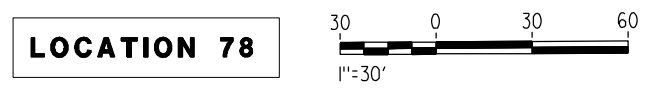
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1056
SCALE
AS SHOWN
SHEET NO.
OF



- NOTES:**
- ① Paint "Bridge No. XX-XX"
 - ② Paint "Plainsburg 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 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	=	215'-5"
WIDTH	=	47'-6"
AREA	=	10,230 ft ²
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
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\WF-ST1059.dgn

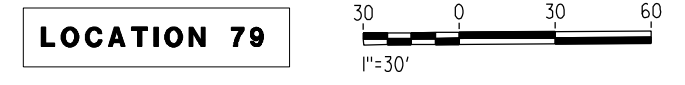
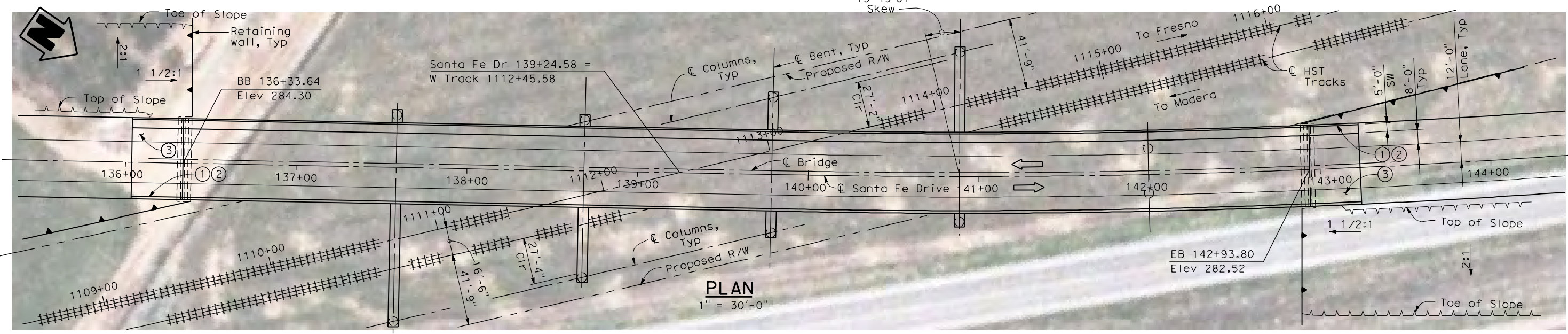
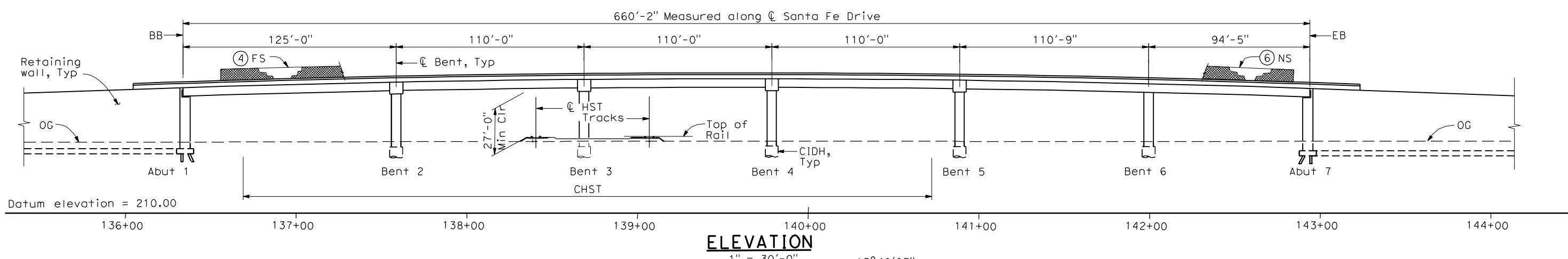
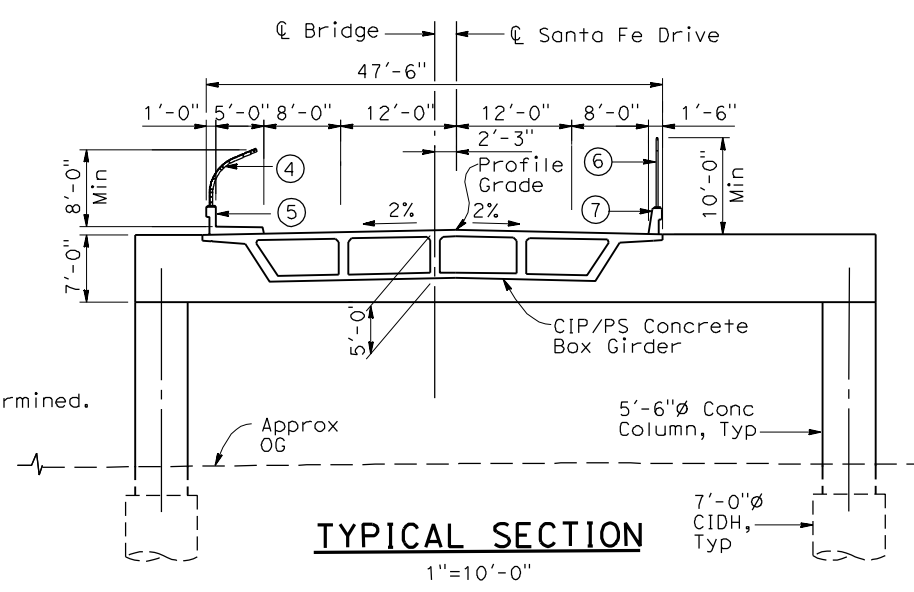
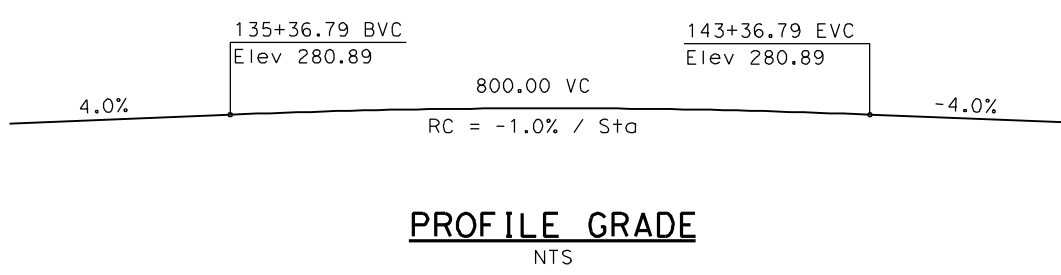
LEGEND:

- ← 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



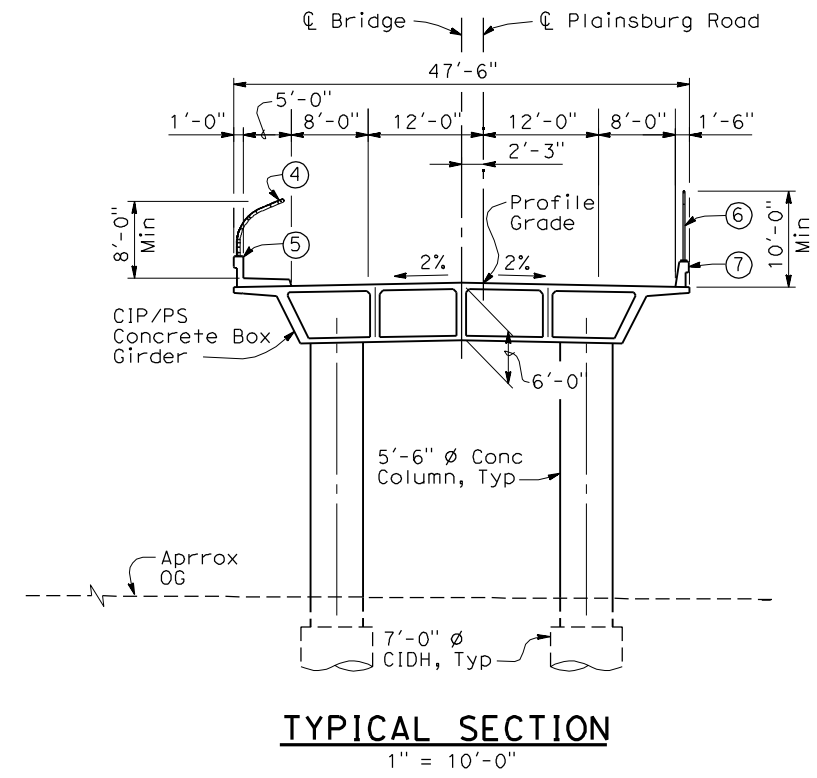
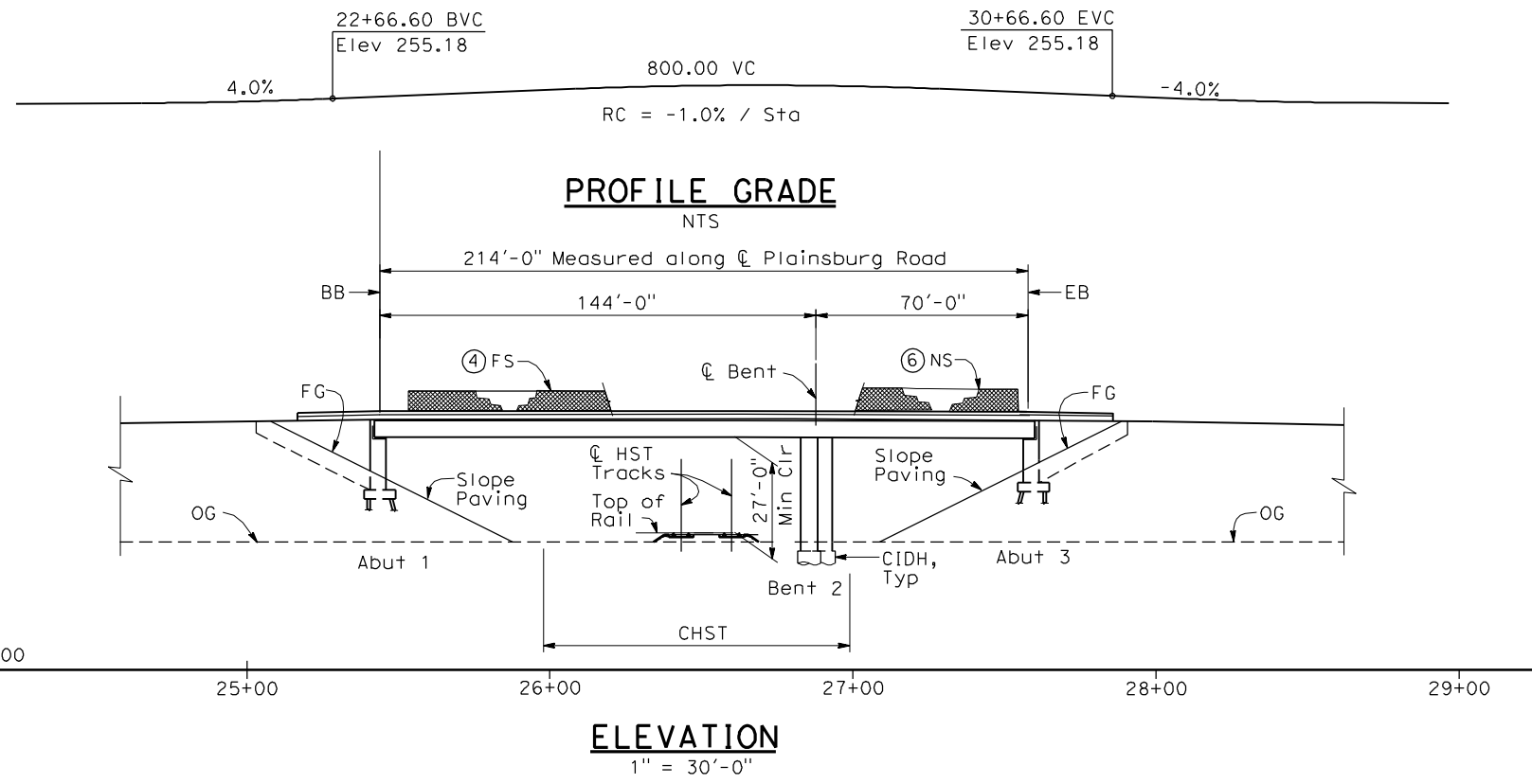
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION (ALTERNATIVE 3)
 AVENUE 21/AVENUE 24
 SANTA FE DRIVE OVERHEAD
 PLANNING STUDY

CONTRACT NO.
HSR06-007

DRAWING NO.
ST1059

SCALE
AS SHOWN

SHEET NO.
OF



- NOTES:**
- ① Paint "Bridge No. xx-xx"
 - ② Paint "Plainsburg 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

DATE OF ESTIMATE = _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 6'-0"

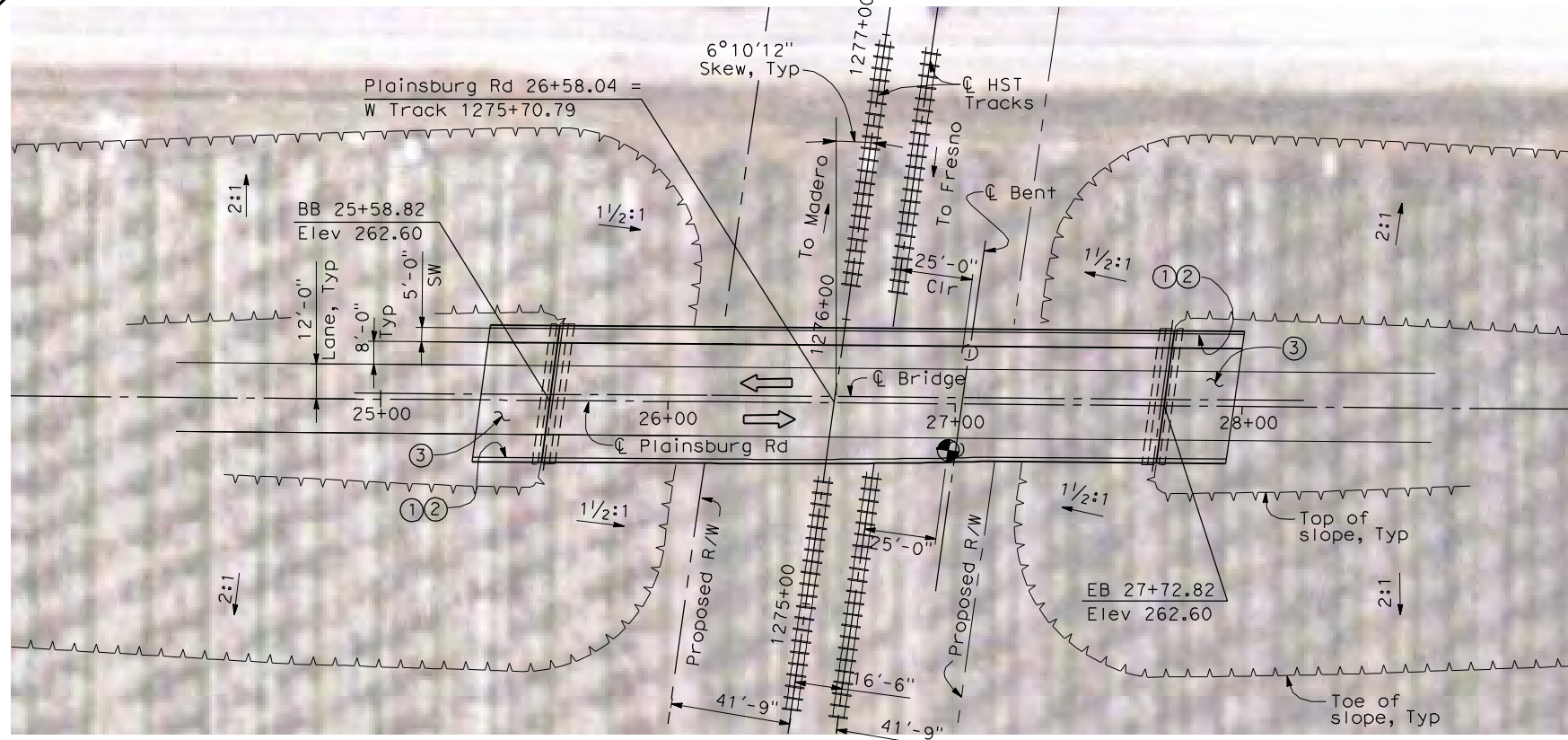
LENGTH = 214'-0"

WIDTH = 47'-6"

AREA = 10,170 ft²

COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____



PLAN
1" = 30'-0"

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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



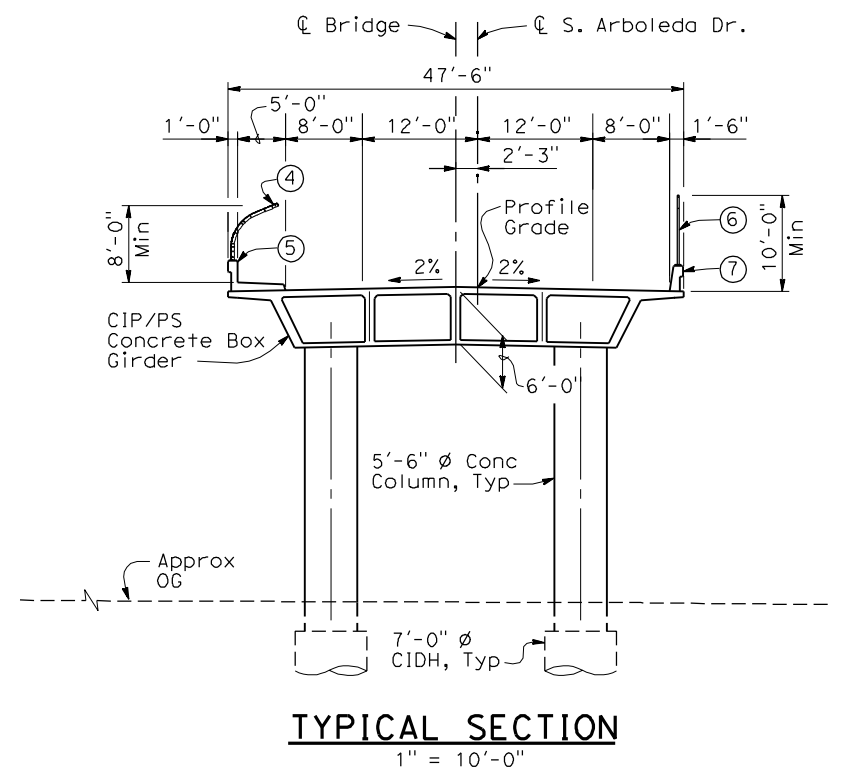
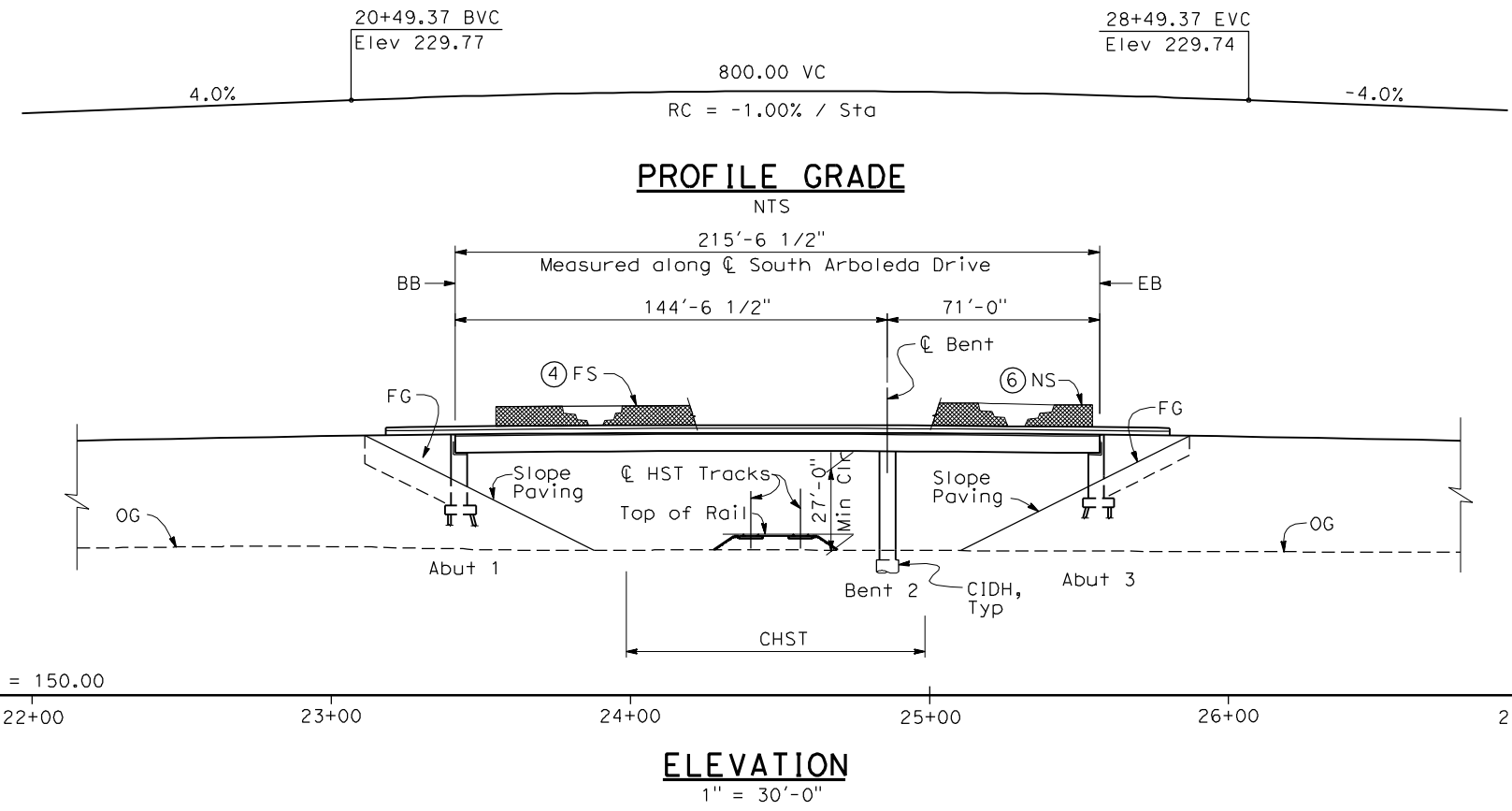
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION (ALTERNATIVE 3)
AVENUE 21/AVENUE 24
PLAINSBURG ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007

DRAWING NO.
ST1060

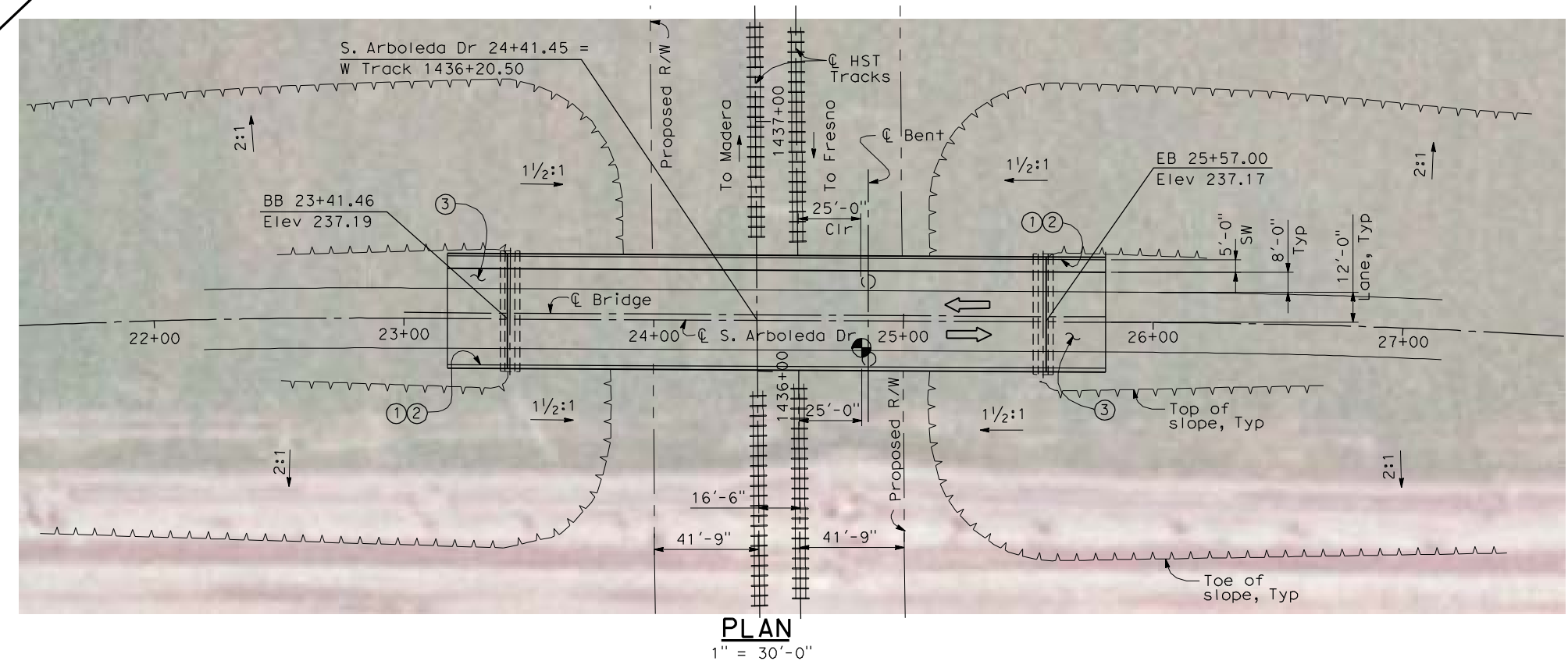
SCALE
AS SHOWN

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:**
- ← Direction of traffic
 - 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

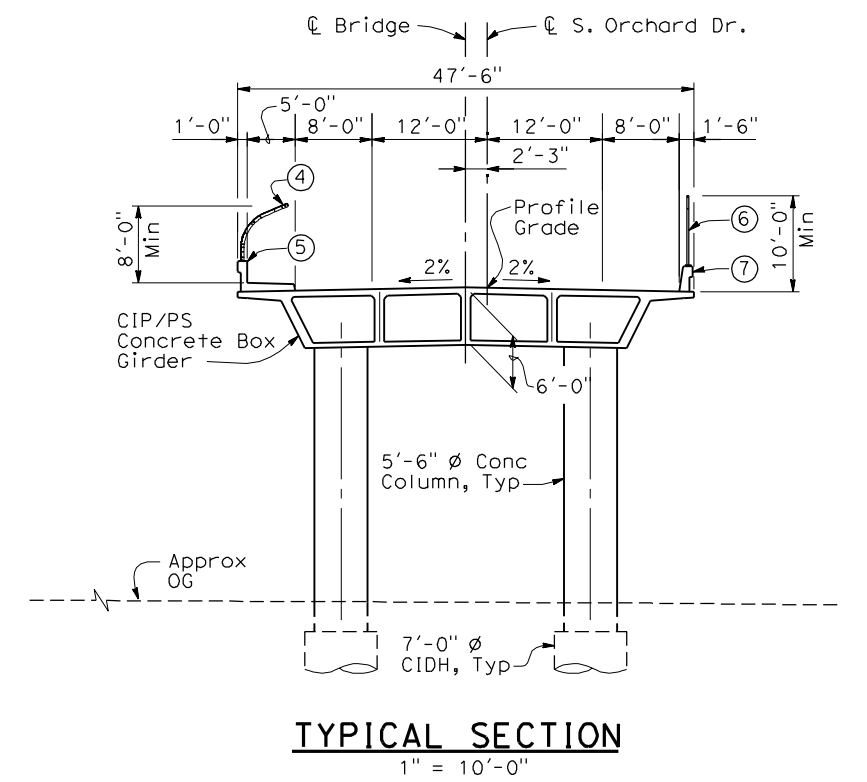
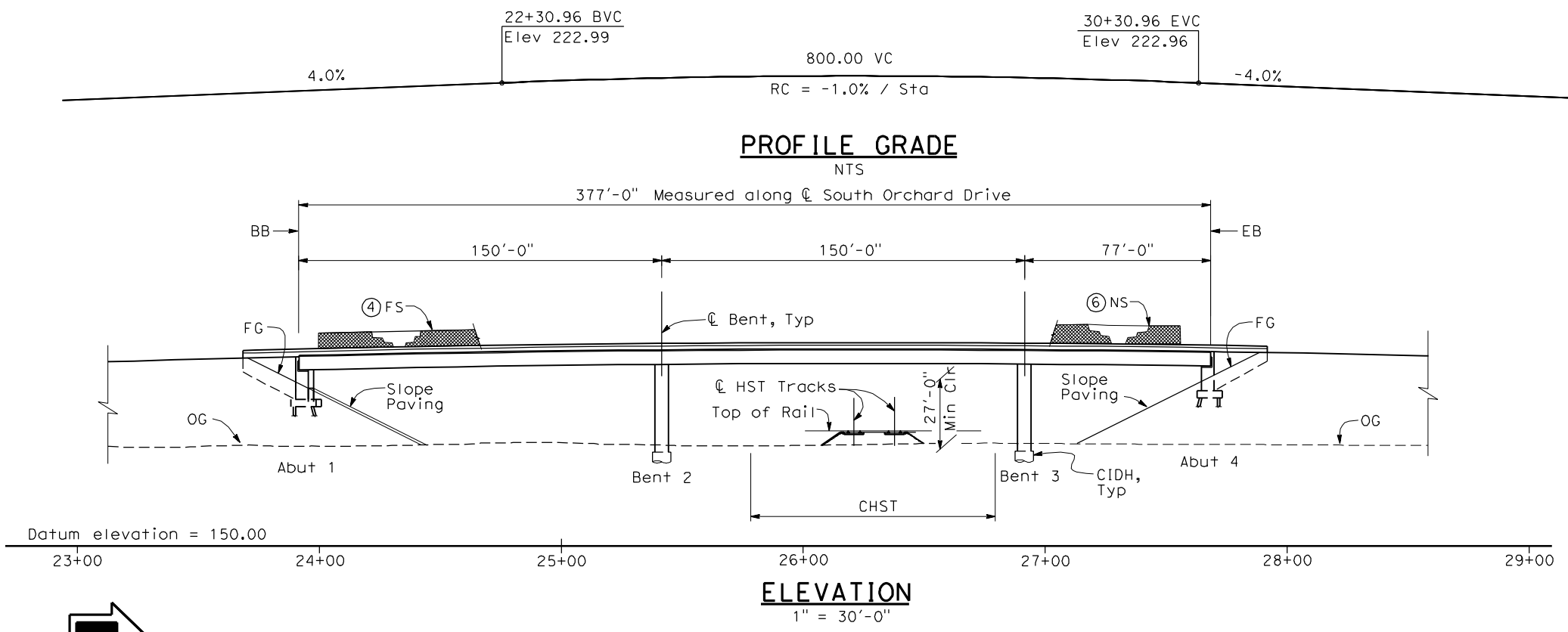
CONTRACT NO.
HSR06-007

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"

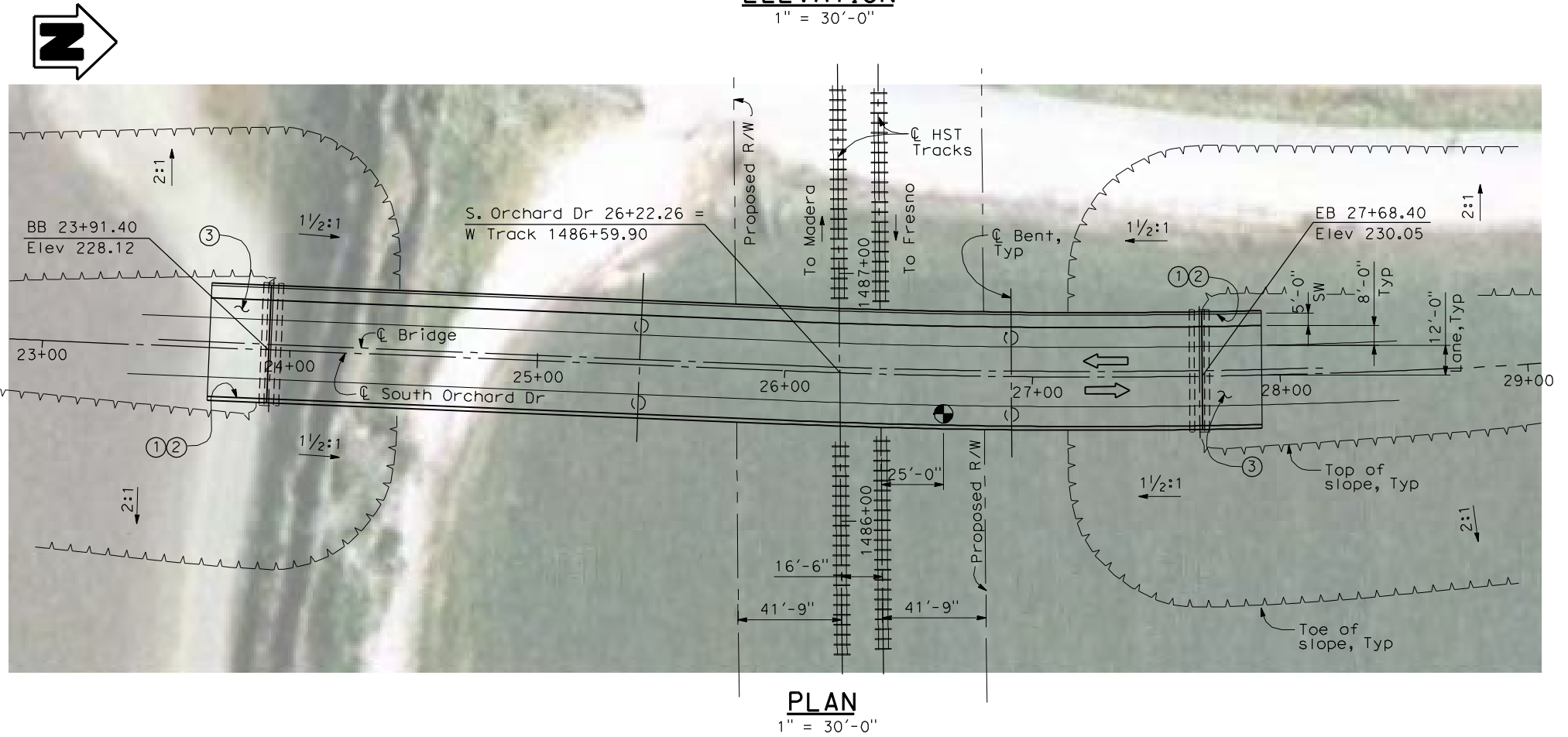
LENGTH = 377'-0"

WIDTH = 47'-6"

AREA = 17,910 ft²

COST / CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = _____

TOTAL COST = _____



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

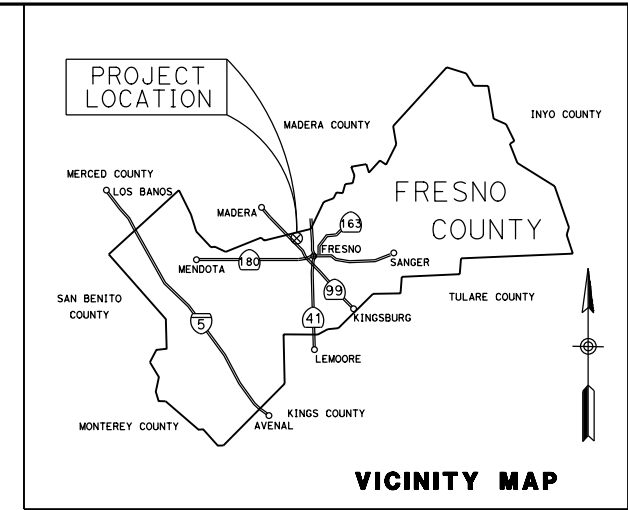
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HSR06-007

DRAWING NO.
ST1062

SCALE
AS SHOWN

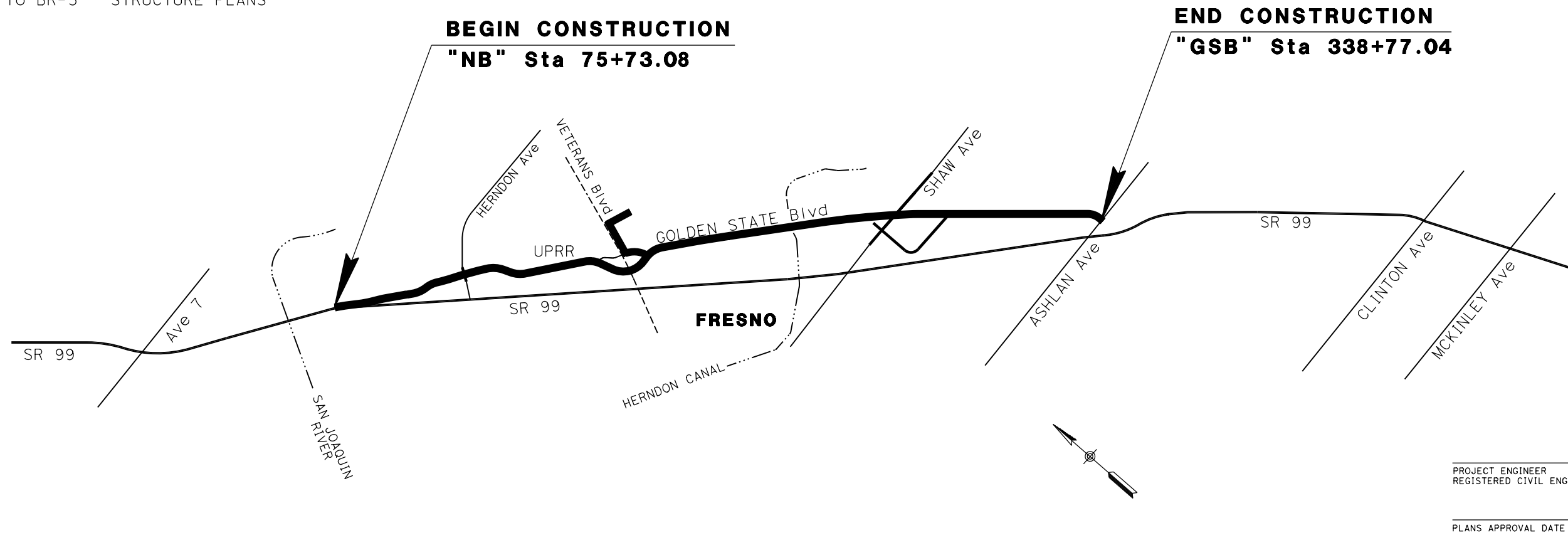
SHEET NO.
OF

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

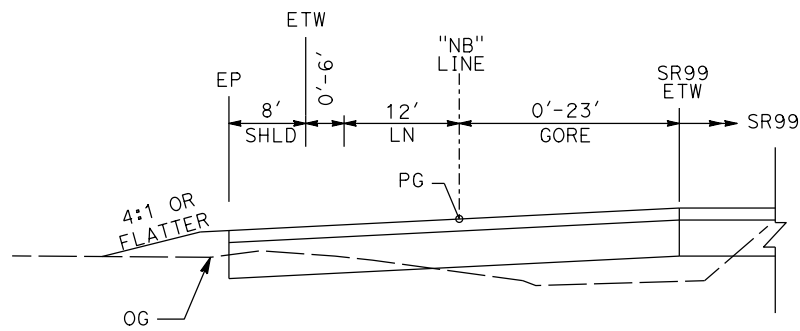
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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

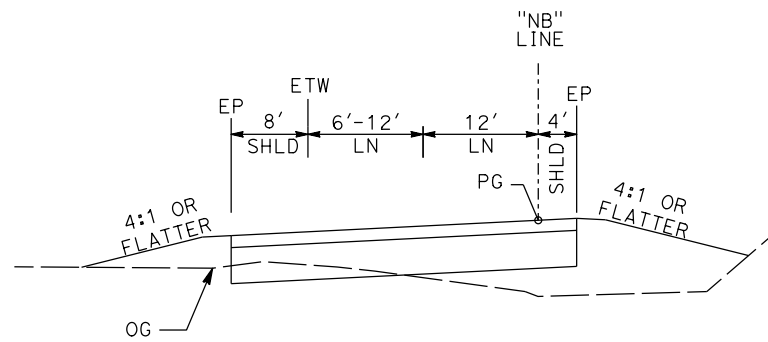


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TITLE

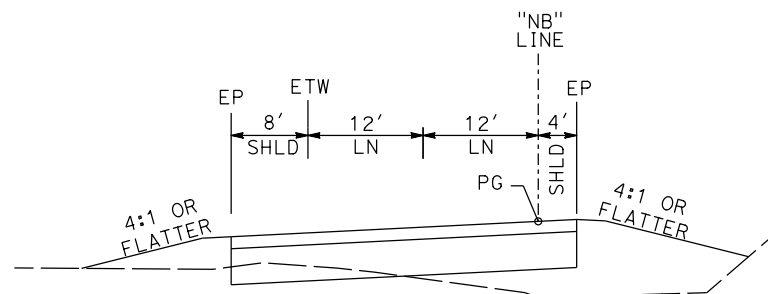
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HSR06-007
DRAWING NO.
T-1
SCALE
NO SCALE
SHEET NO.



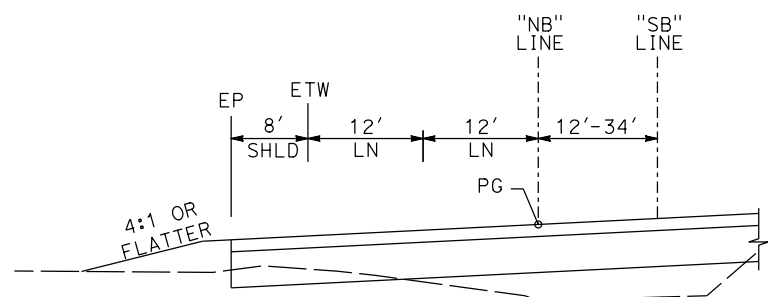
"NB" 75+73 TO "NB" 82+17



"NB" 82+17 TO "NB" 84+72

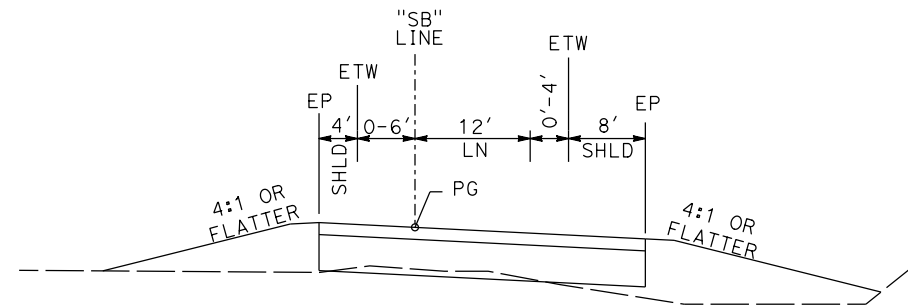


"NB" 84+72 TO "NB" 97+56

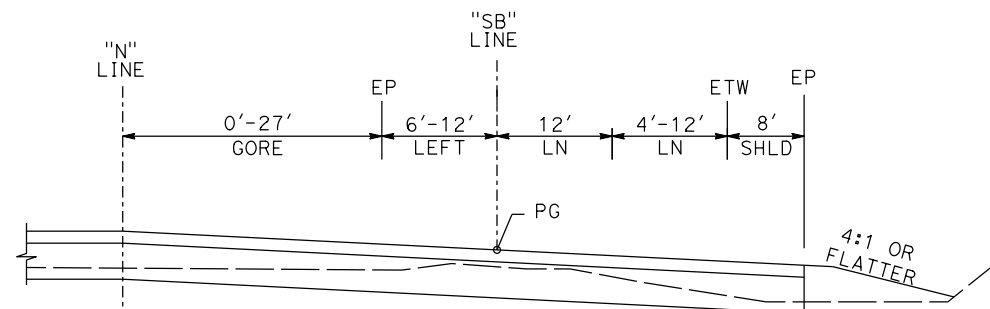


"NB" 97+56 TO "NB" 100+00

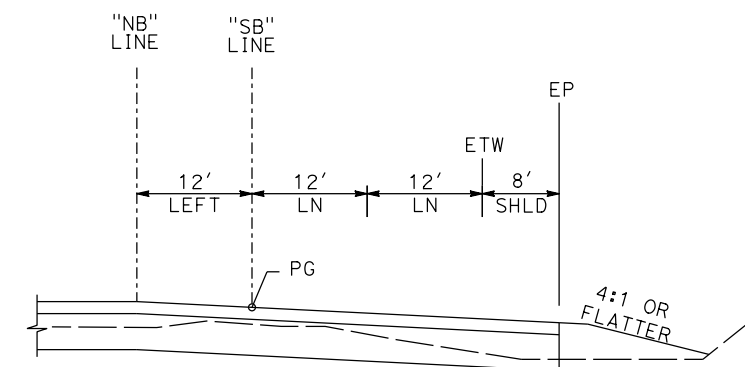
NORTHBOUND ONRAMP



"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

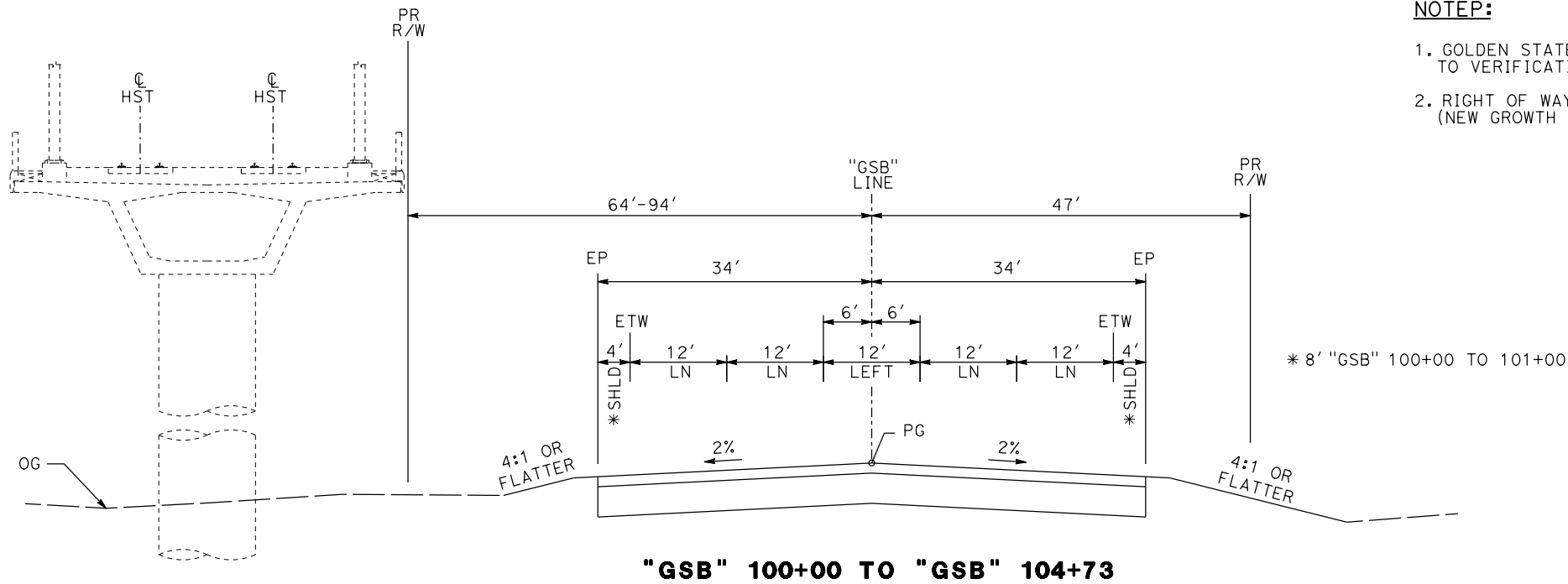
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

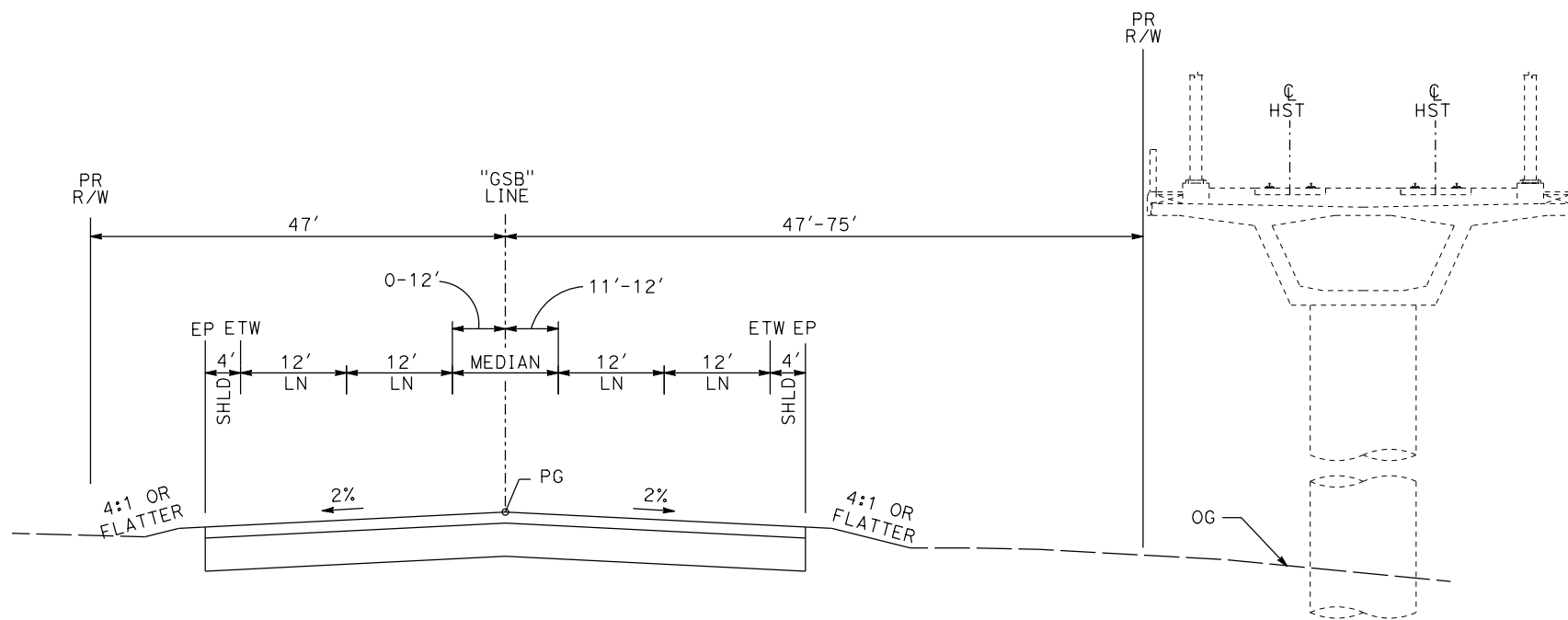
CONTRACT NO.
HSR06-007
DRAWING NO.
X-1
SCALE
SHEET NO.



"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

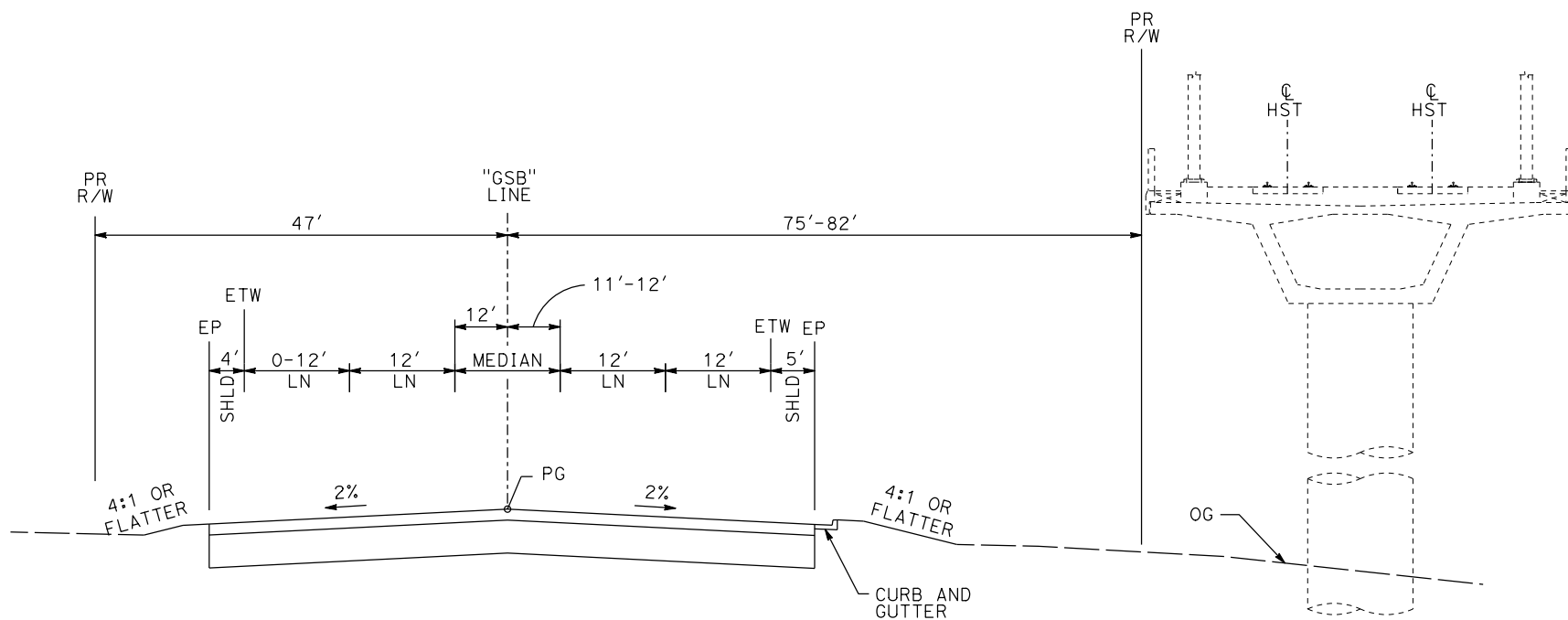
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

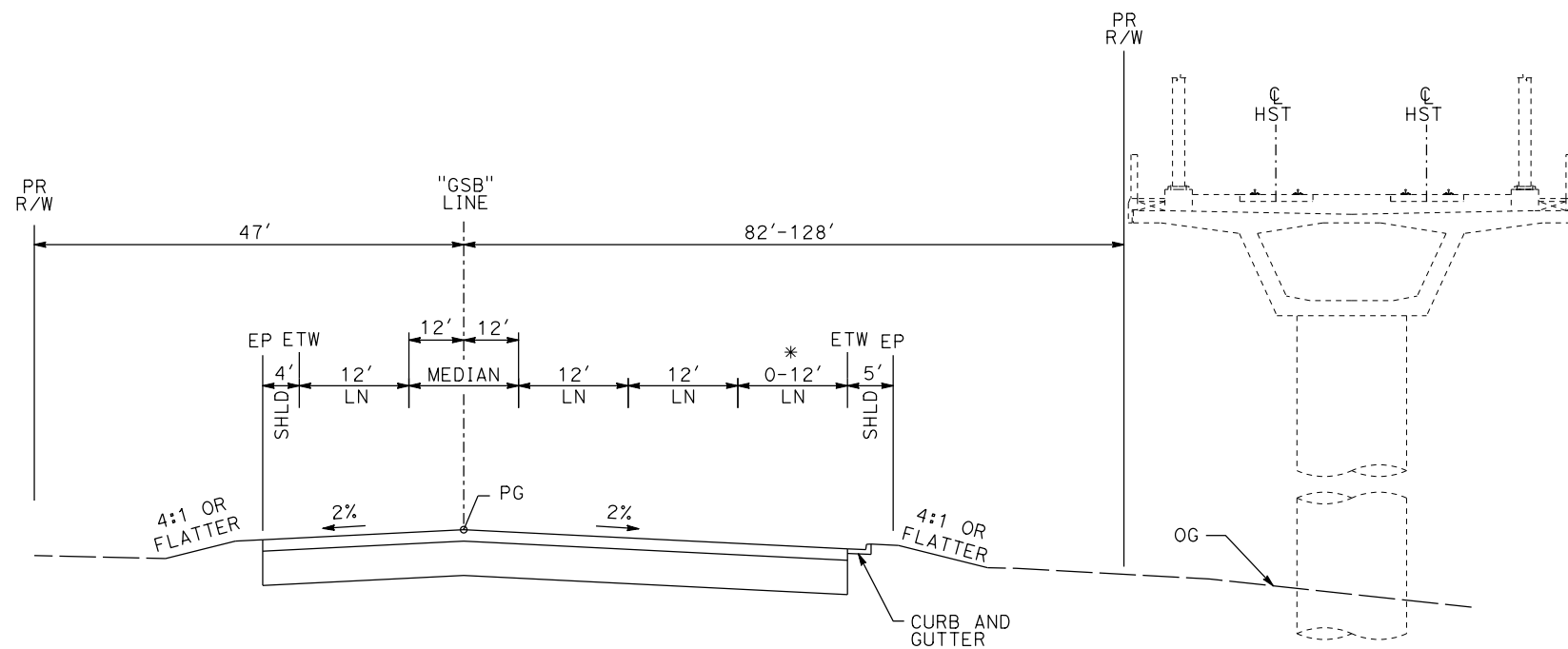


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

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

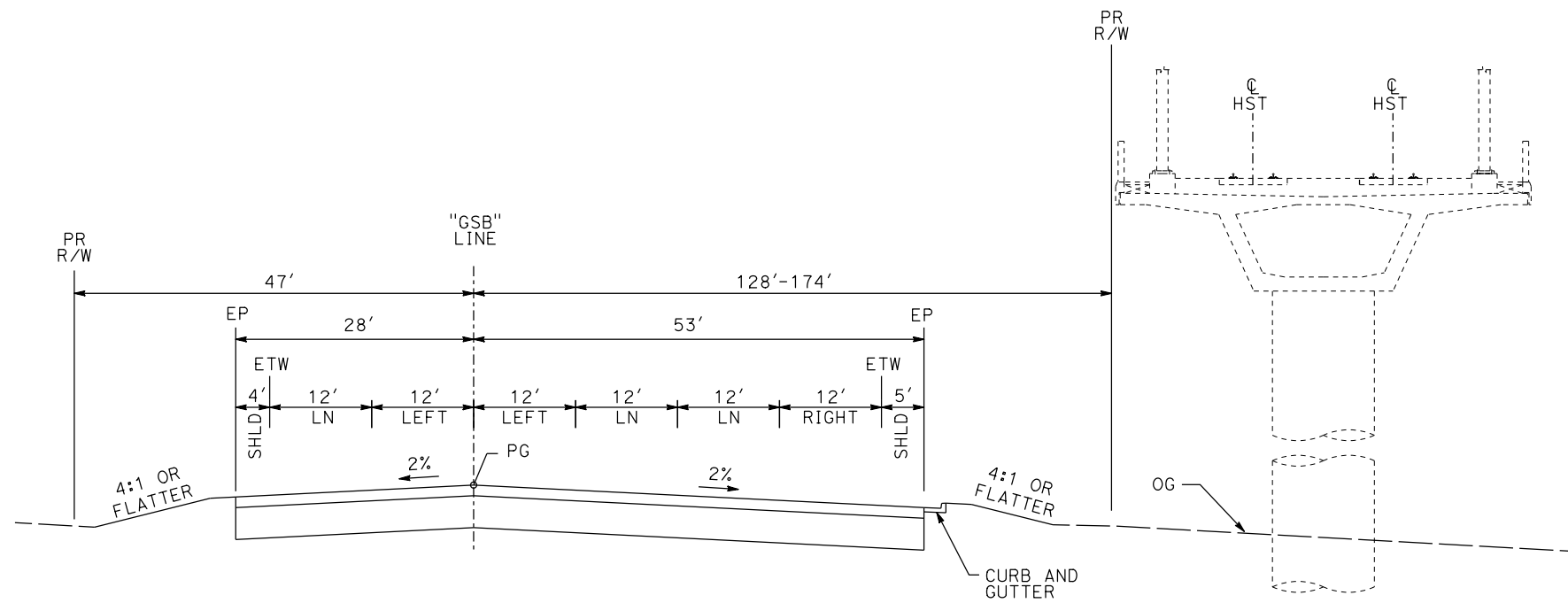
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15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

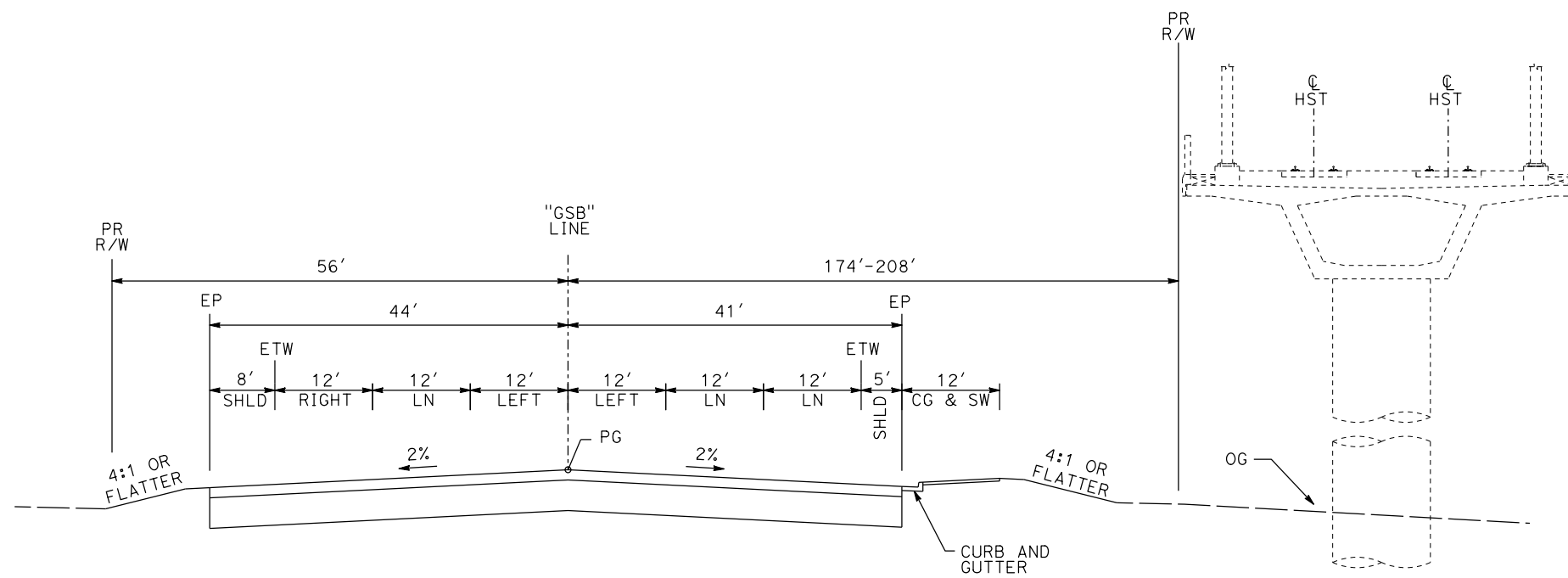


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-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

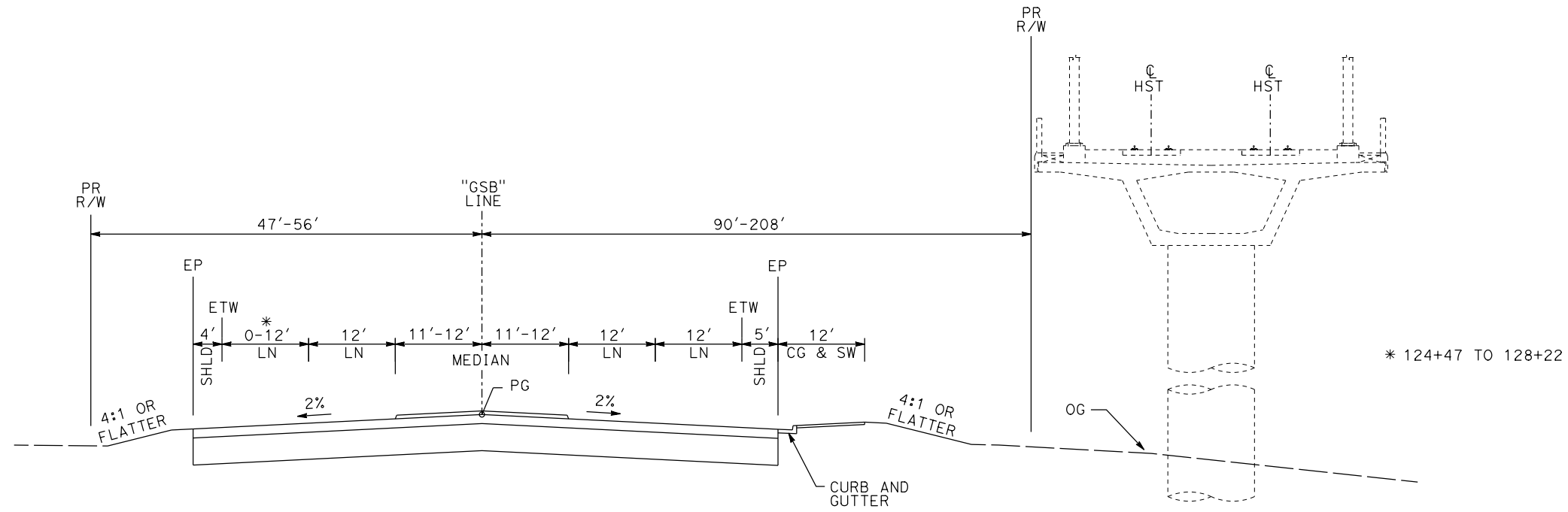
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

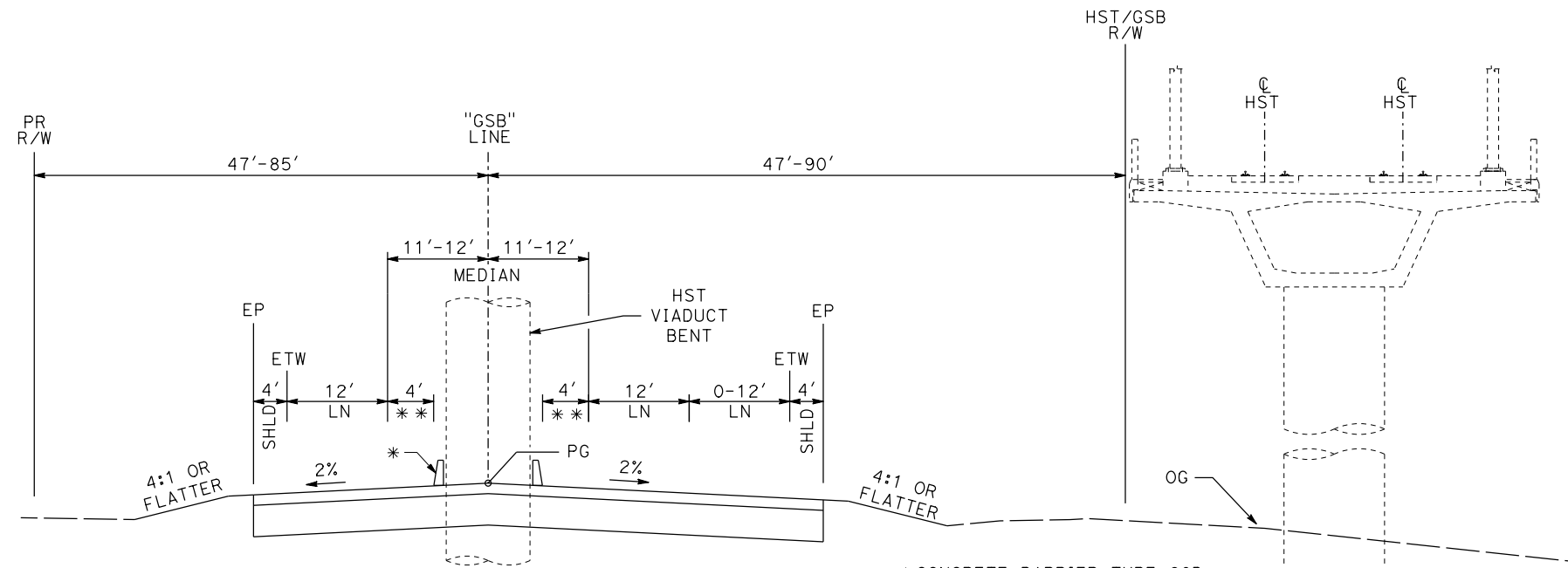


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-4
SCALE
SHEET NO.



"GSB" 124+47 TO "GSB" 134+16



"GSB" 134+16 TO "GSB" 141+36

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

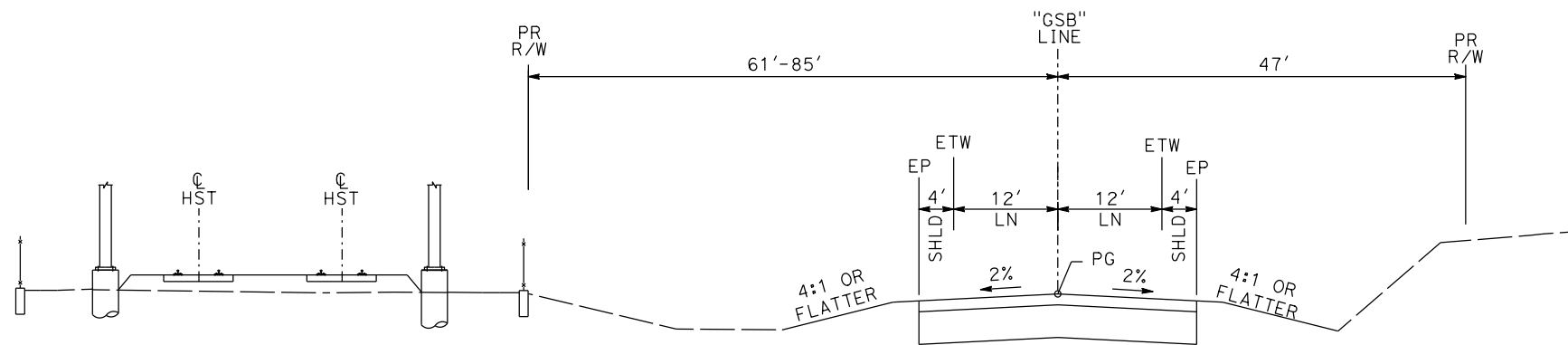
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

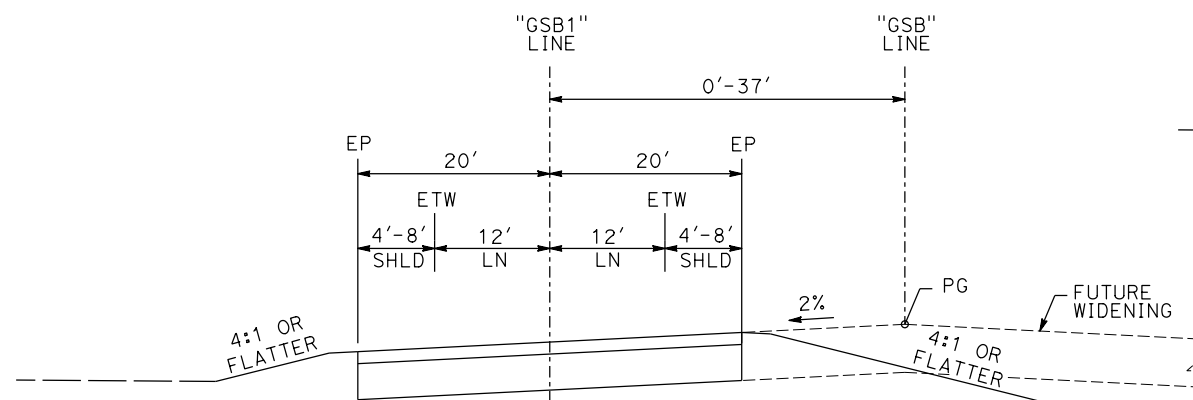


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

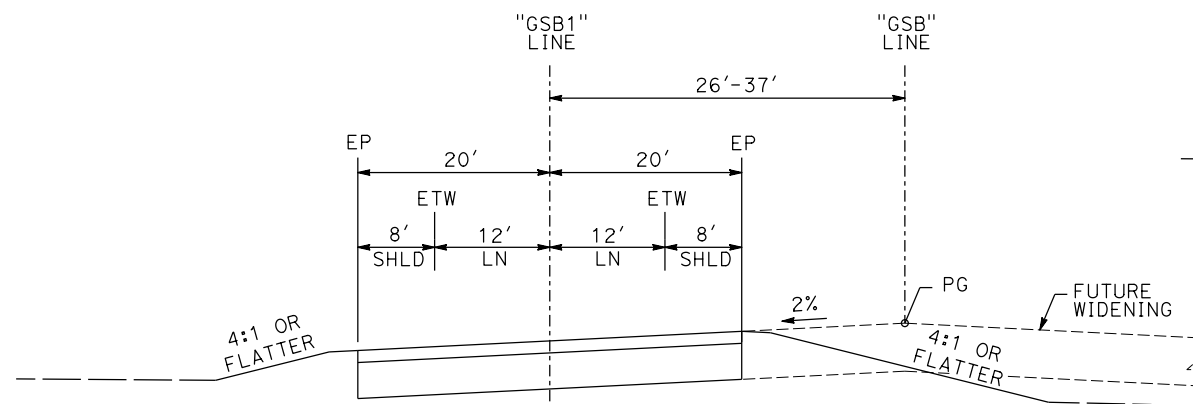
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HSR06-007
DRAWING NO.
X-5
SCALE
SHEET NO.



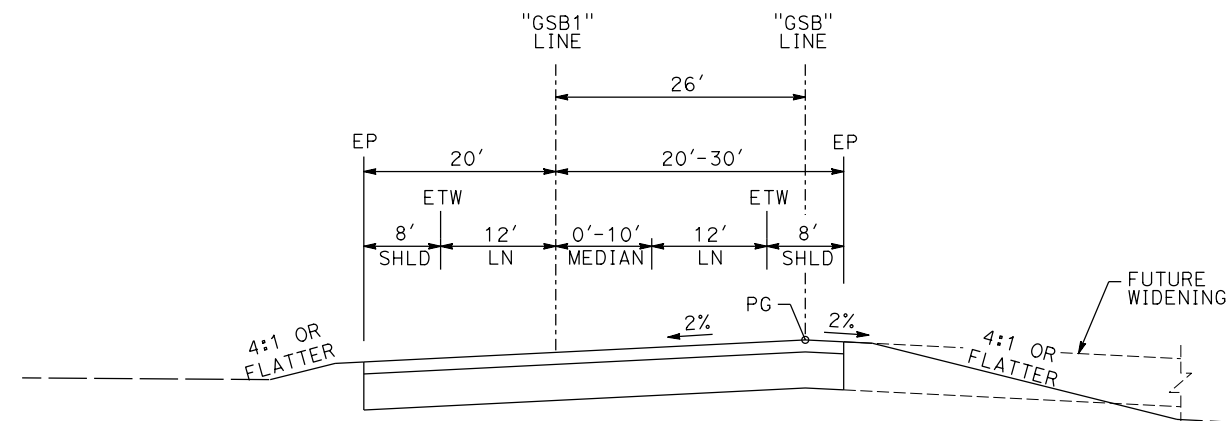
"GSB" 141+36 TO "GSB" 161+45



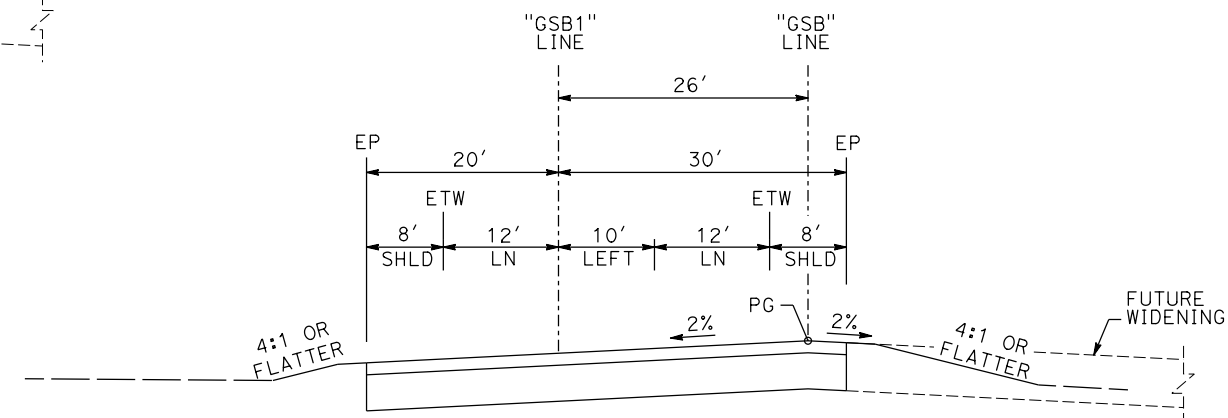
"GSB" 161+45 TO "GSB" 167+38



"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

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

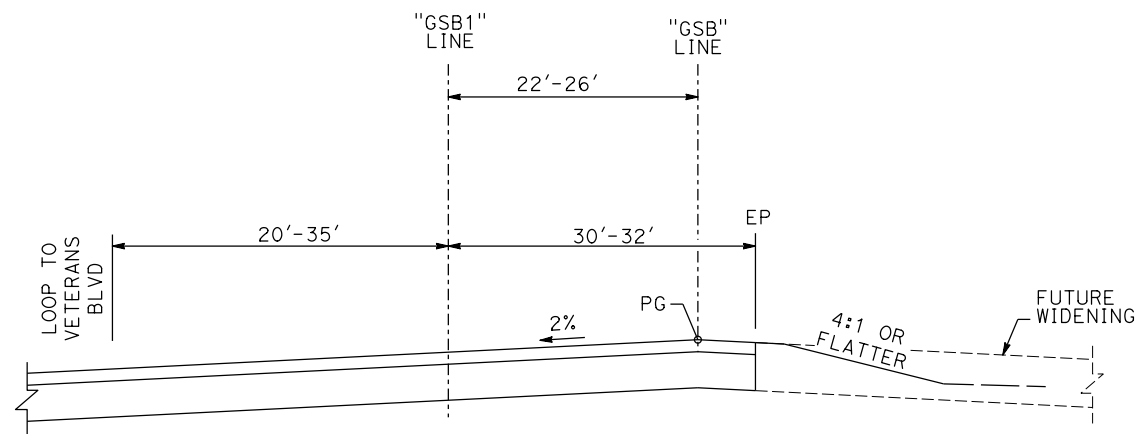
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

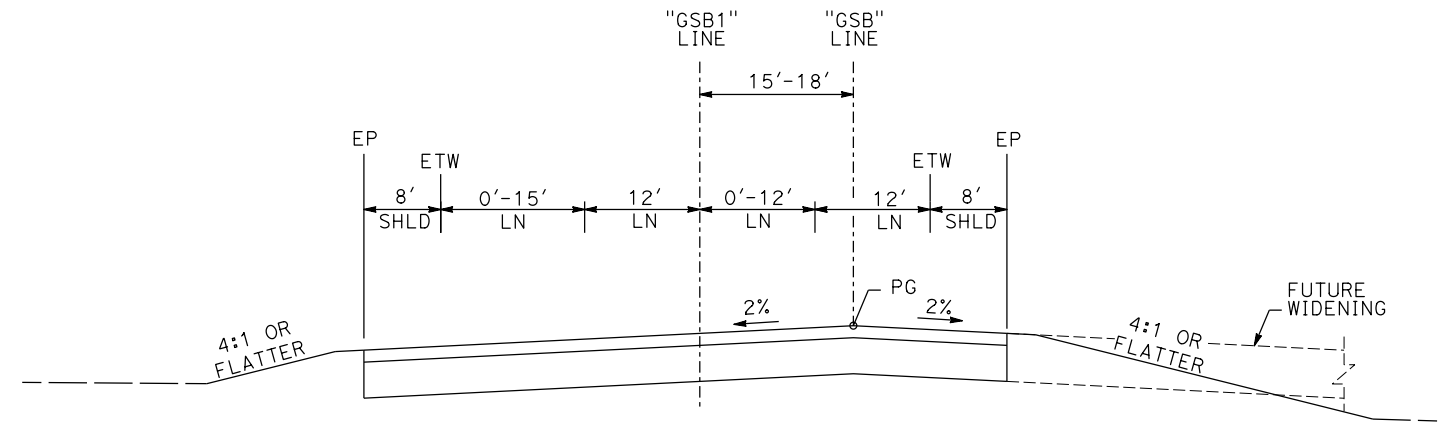


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

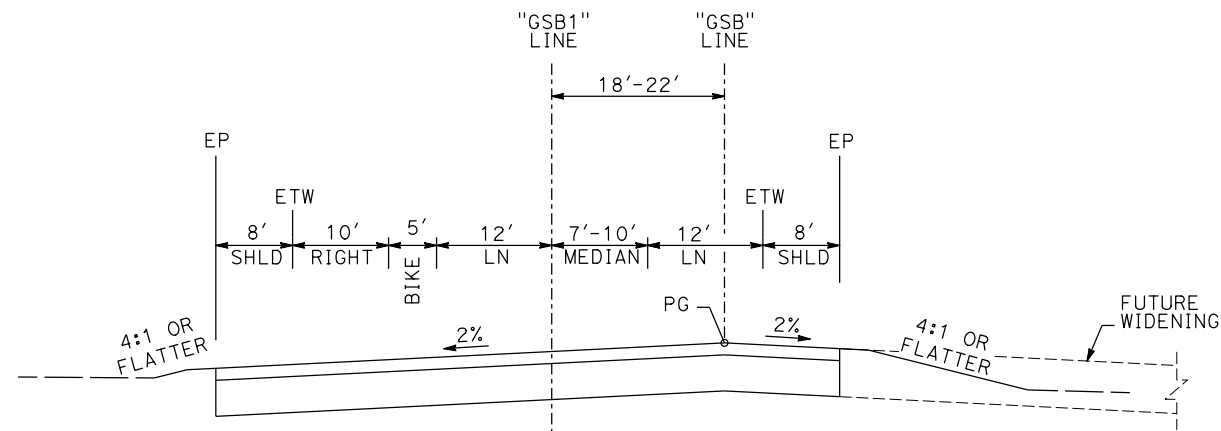
CONTRACT NO.
HSR06-007
DRAWING NO.
X-6
SCALE
SHEET NO.



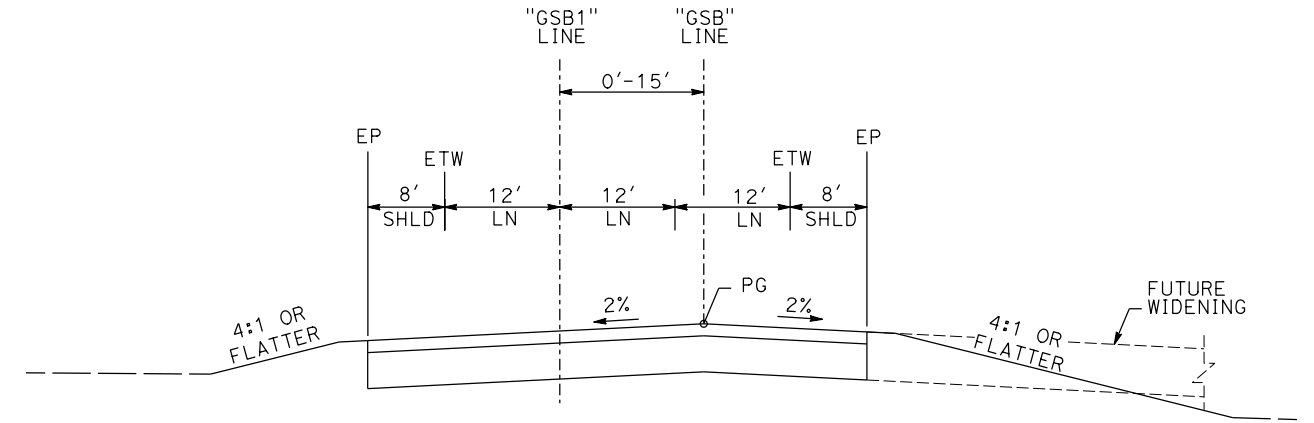
"GSB" 184+25 TO "GSB" 185+41



"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

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

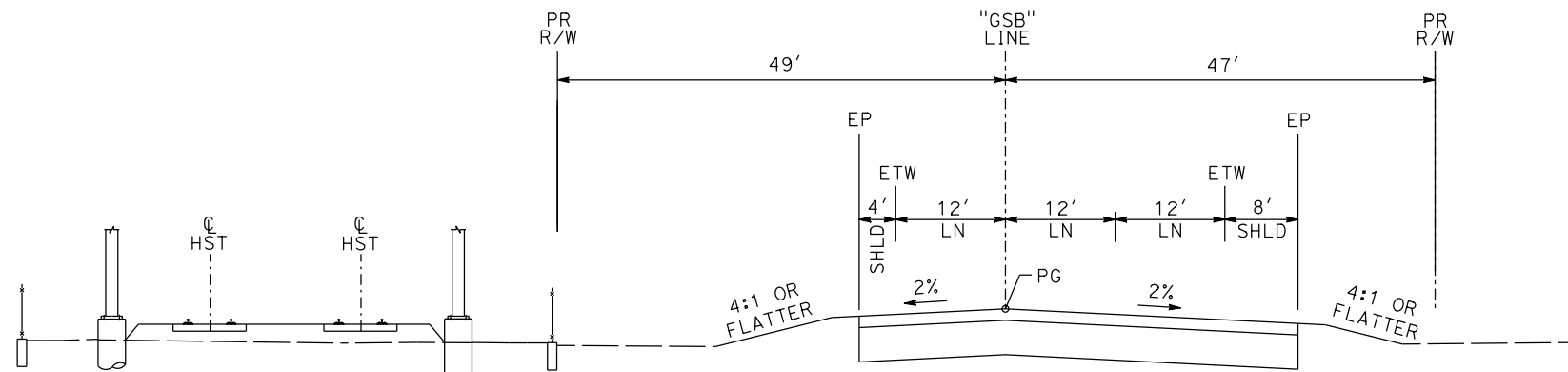
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15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

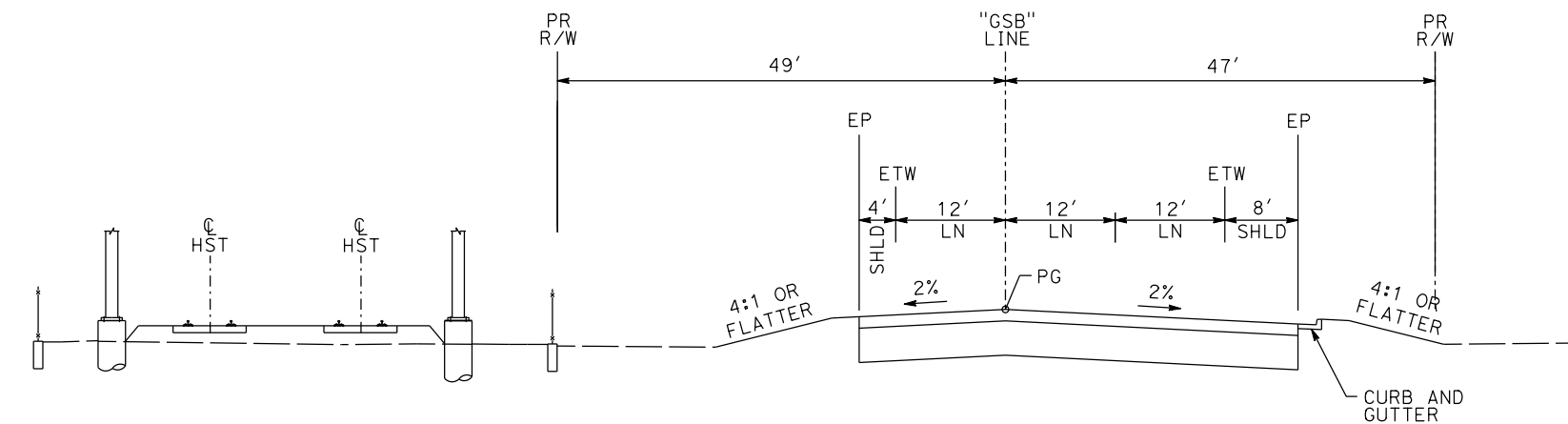


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

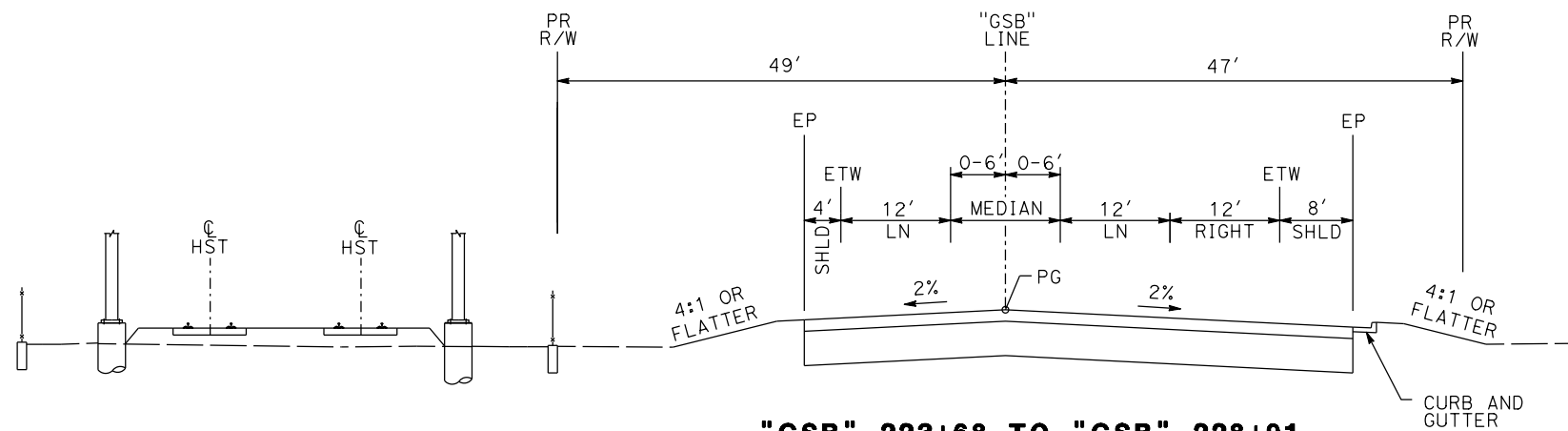
CONTRACT NO.
HSR06-007
DRAWING NO.
X-7
SCALE
SHEET NO.



"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
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

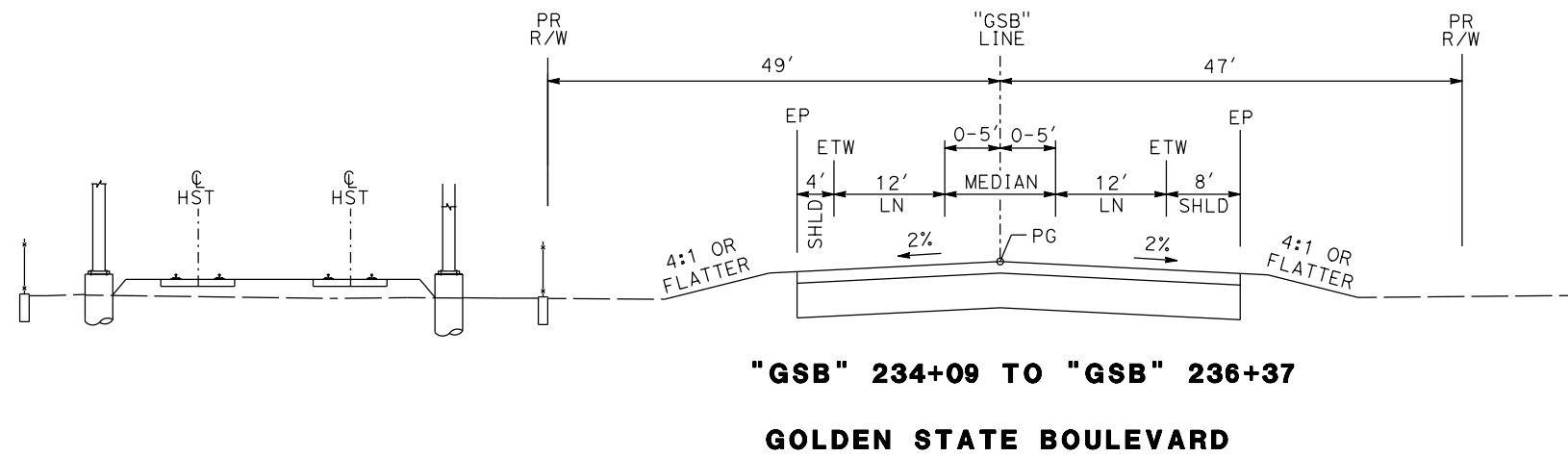
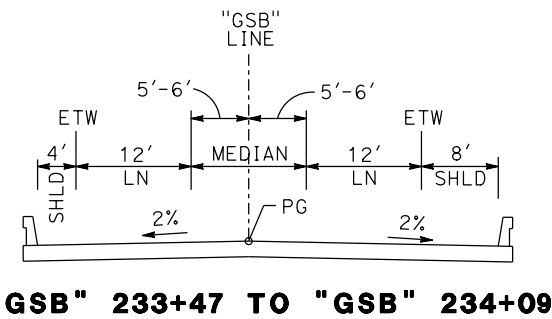
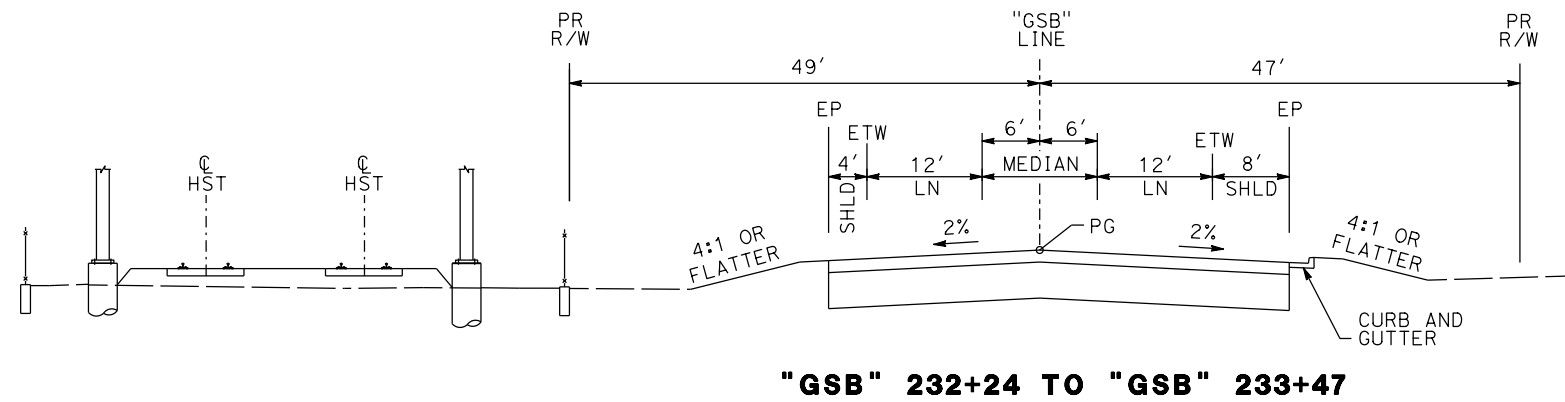
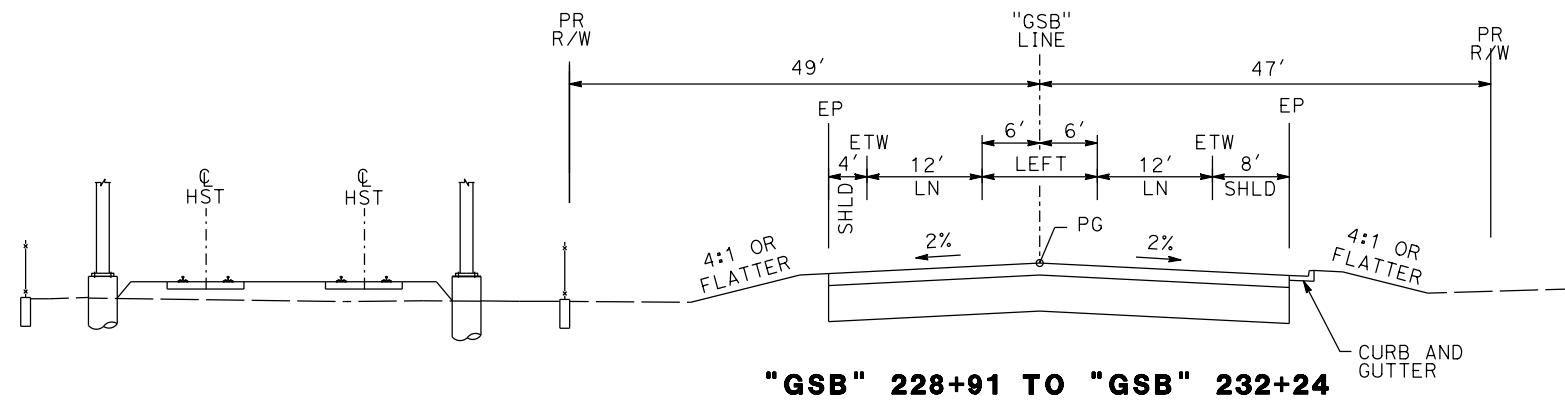
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15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
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
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

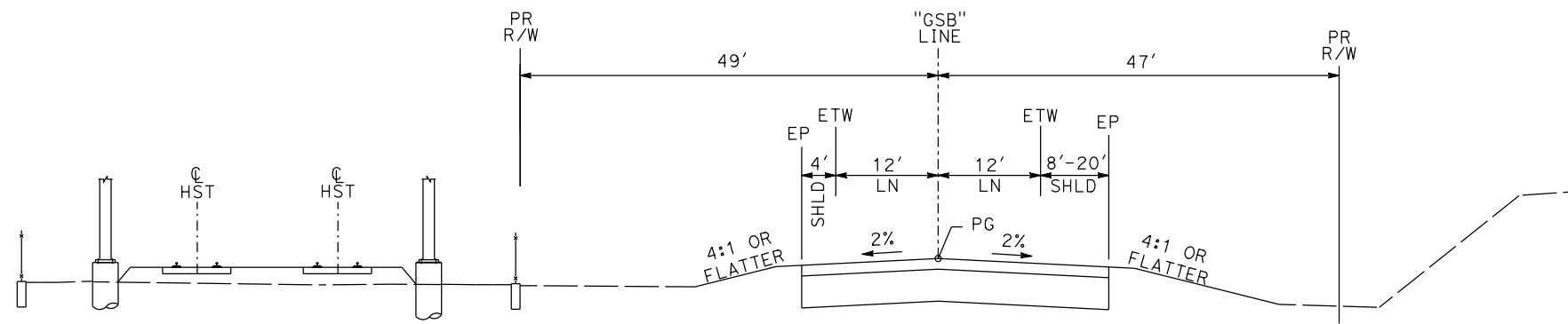
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15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

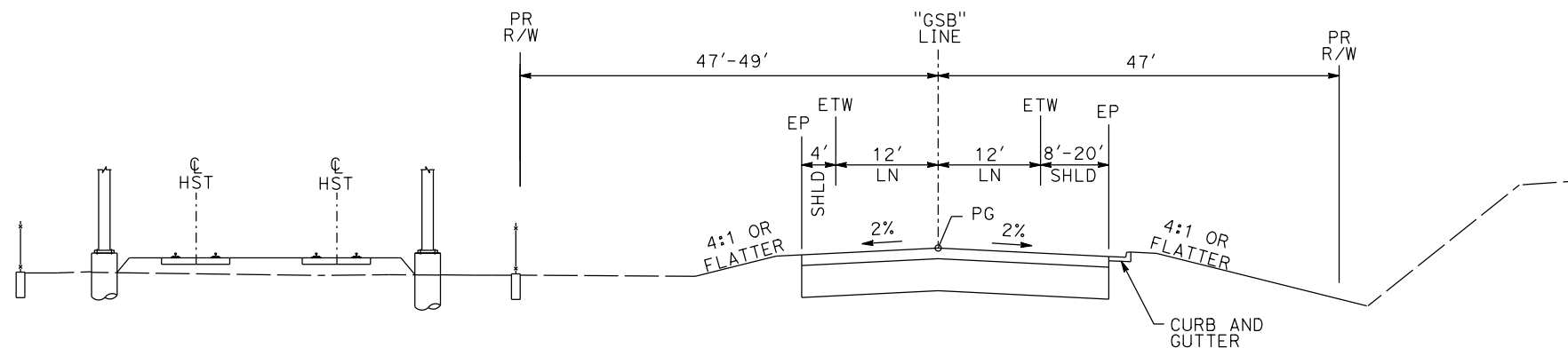


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

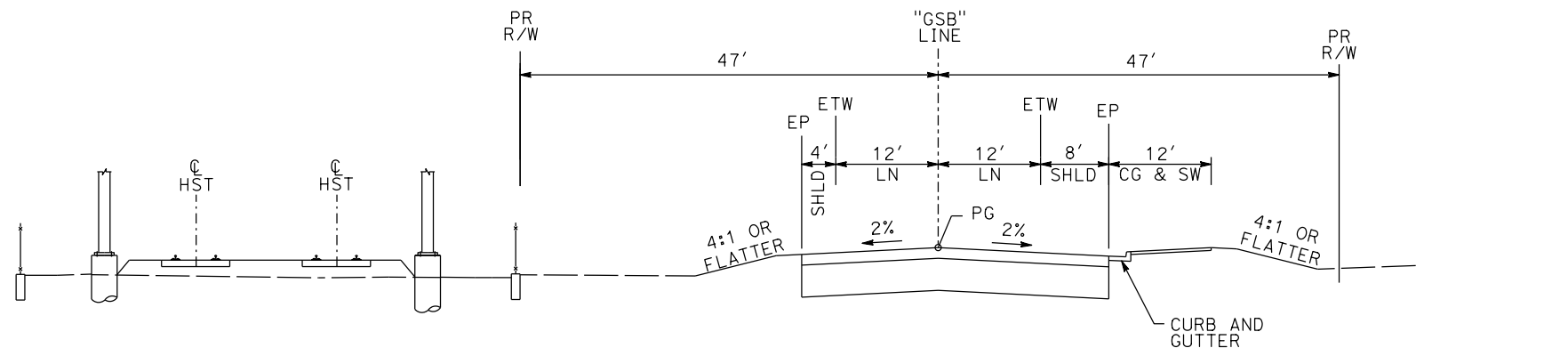
CONTRACT NO.
HSR06-007
DRAWING NO.
X-9
SCALE
SHEET NO.



"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

DESIGNED BY
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

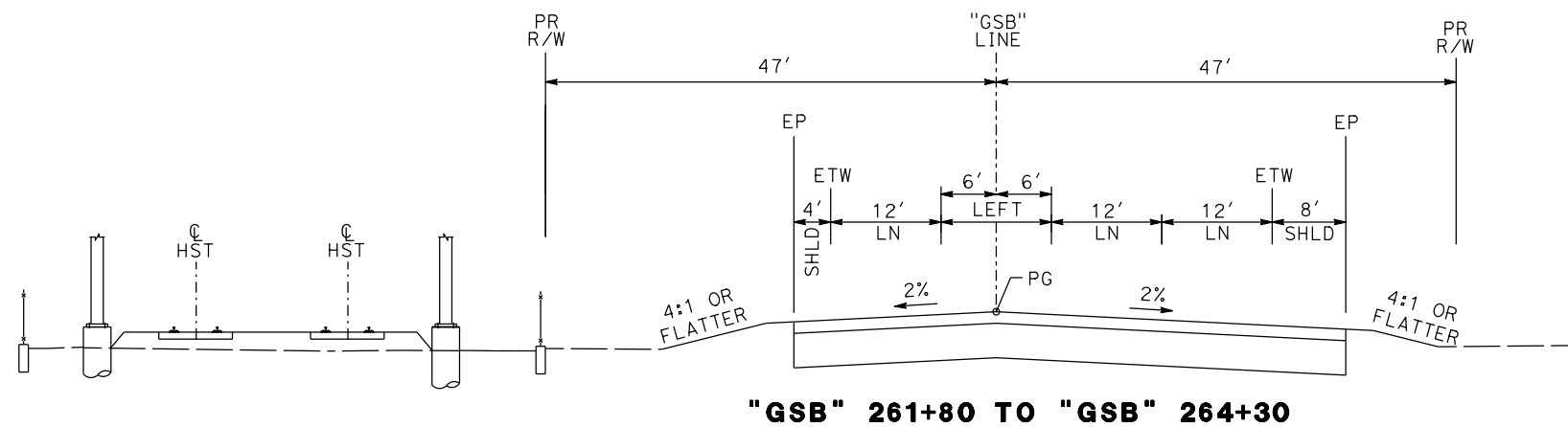
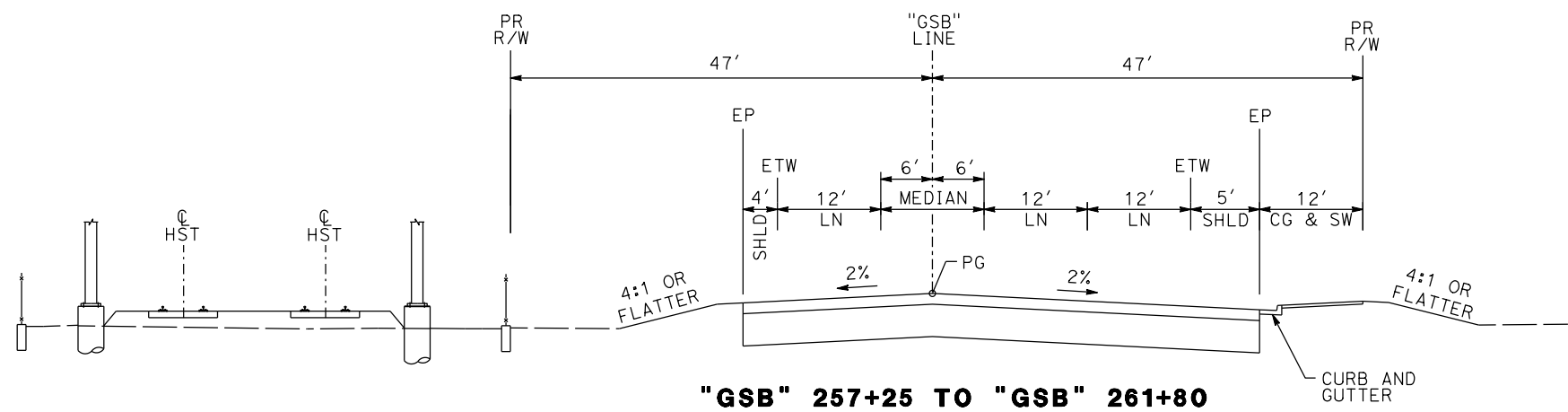
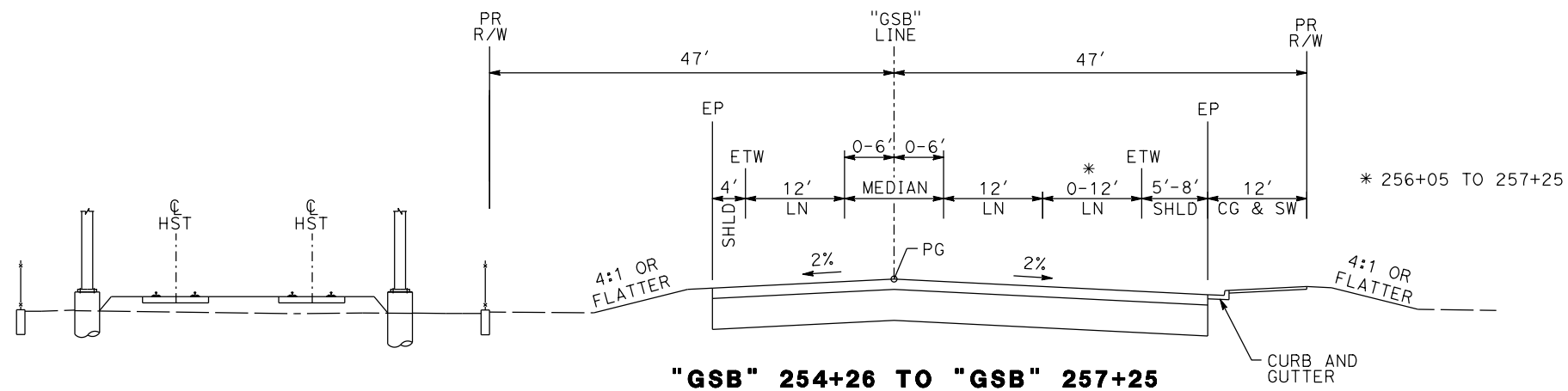
**RECORD SET
15% DESIGN
SUBMITTAL**

**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-10
SCALE
SHEET NO.



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

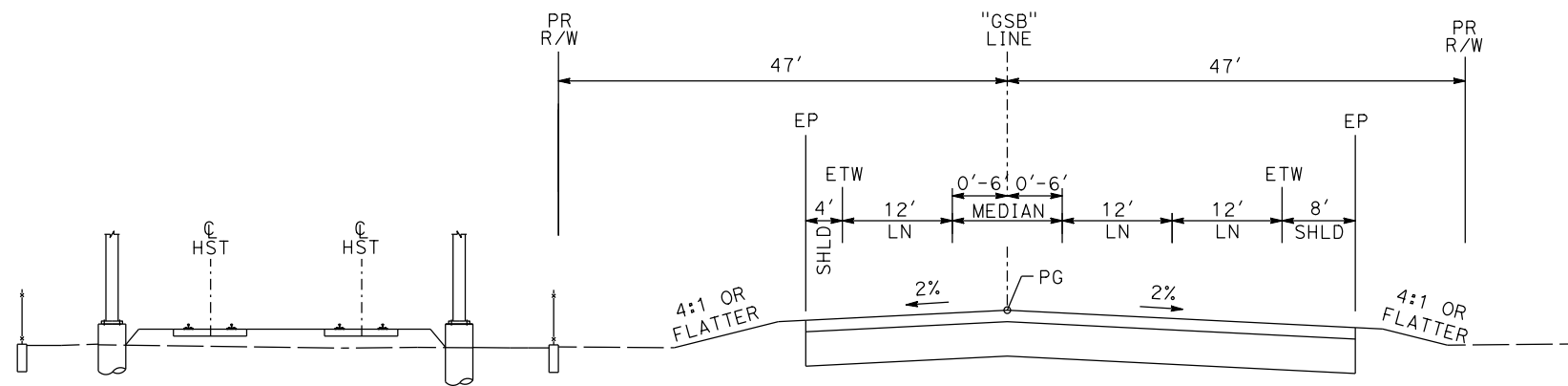
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

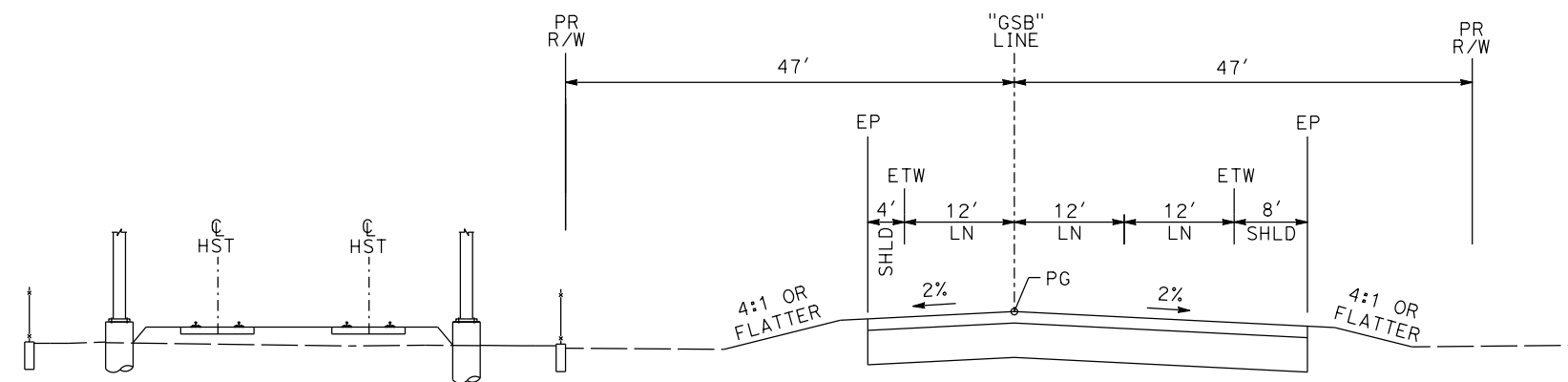


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

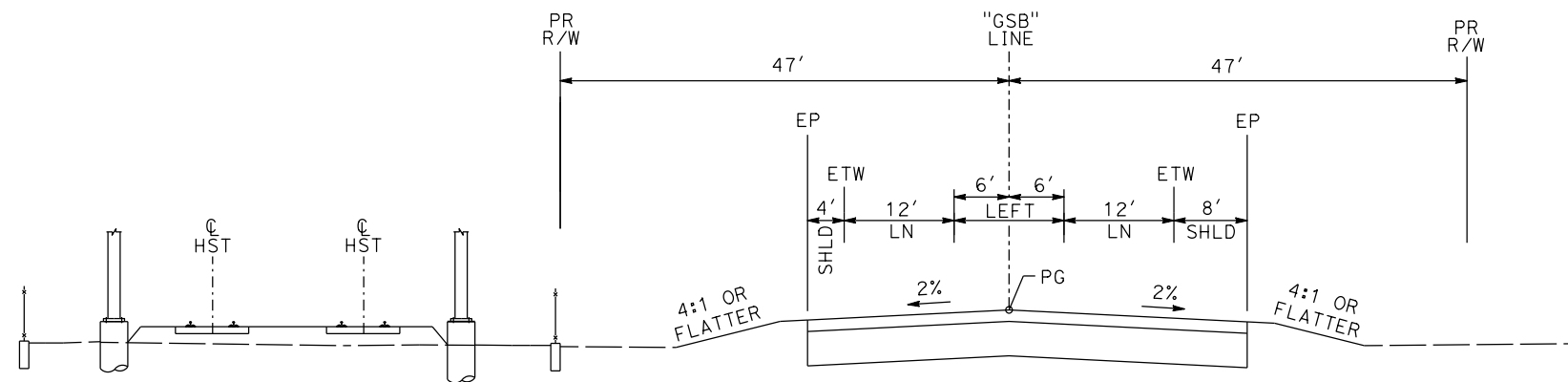
CONTRACT NO.
HSR06-007
DRAWING NO.
X-11
SCALE
SHEET NO.



"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
G. MANOREK
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L. HEUSTON
 IN CHARGE
J. MATSUI-DRURY
 DATE
04/29/11

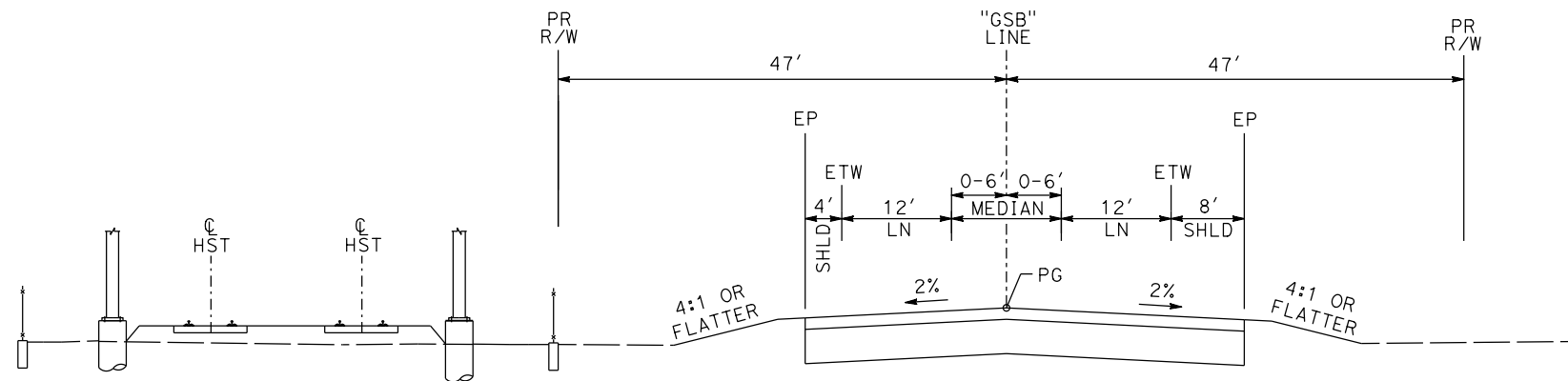
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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

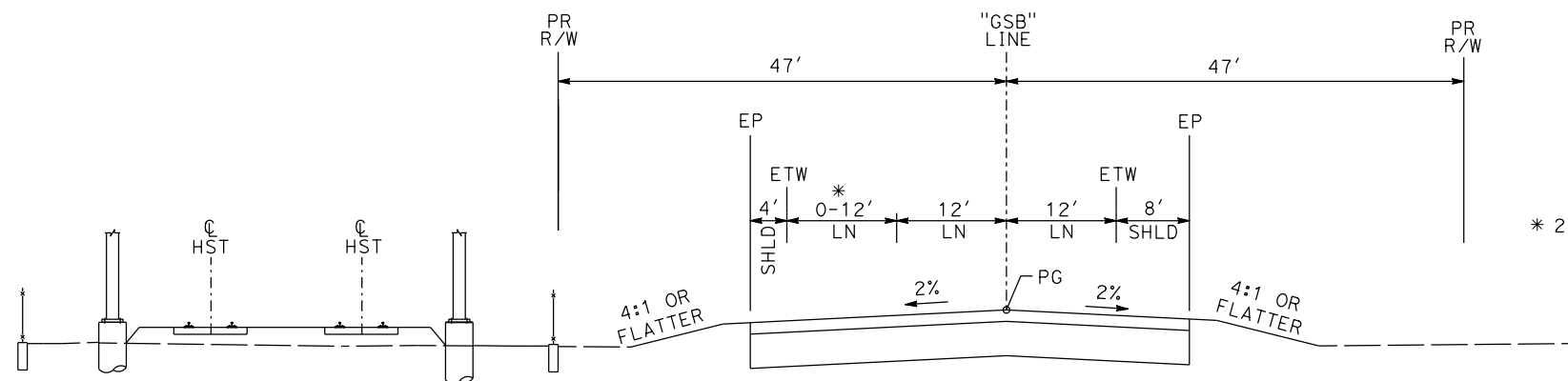


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

CONTRACT NO.
HSR06-007
 DRAWING NO.
X-12
 SCALE
 SHEET NO.

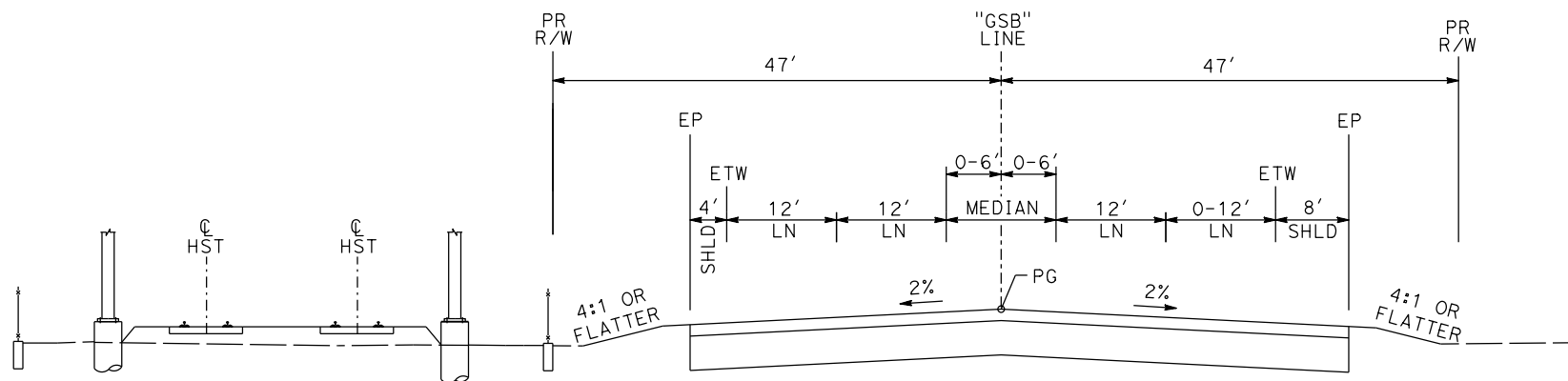


"GSB" 289+26 TO "GSB" 293+46



"GSB" 293+46 TO "GSB" 302+92

* 296+92 TO 302+92



"GSB" 302+92 TO "GSB" 305+92

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

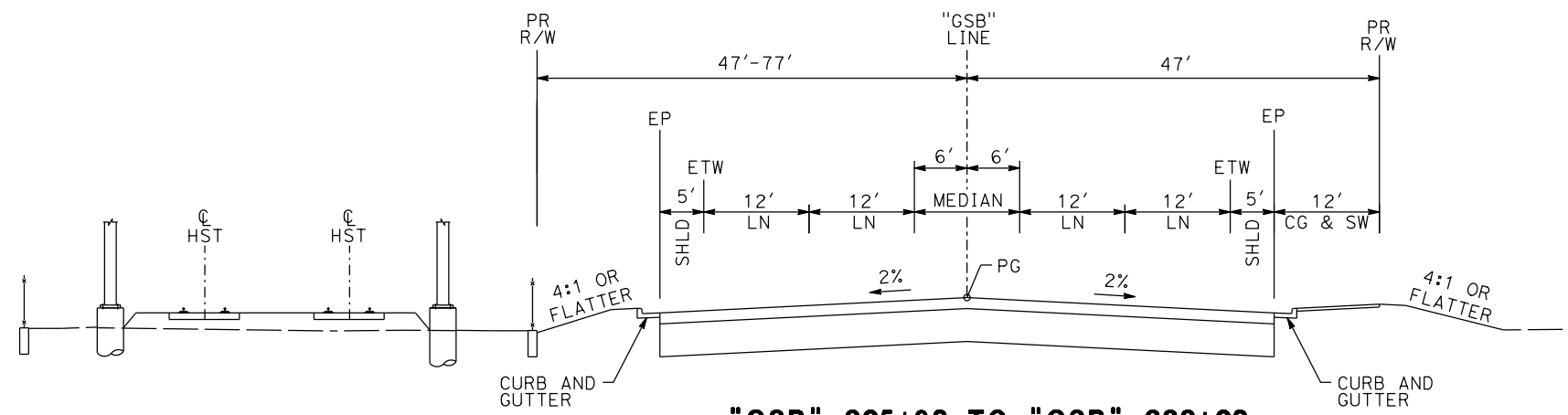
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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

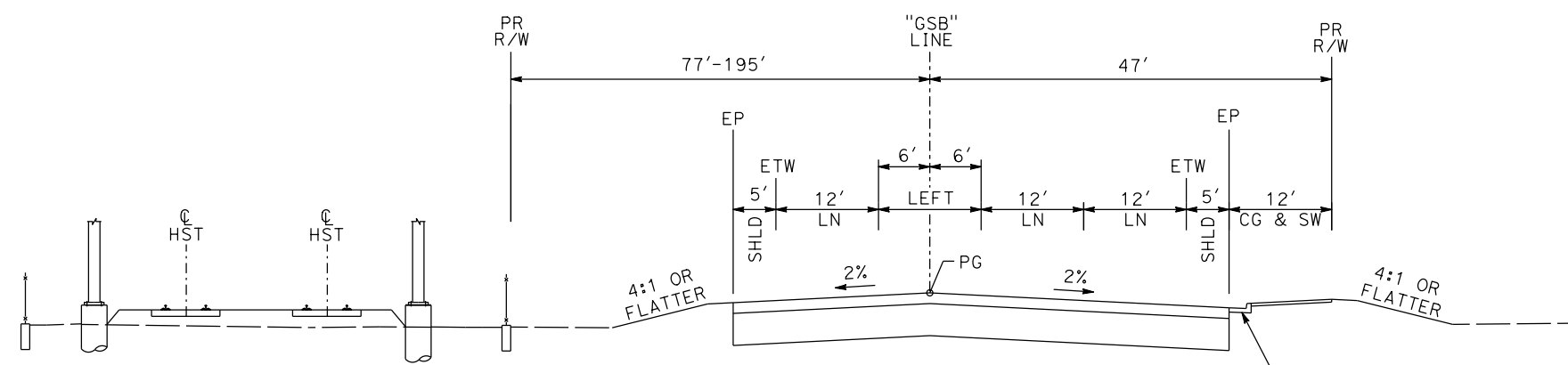


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

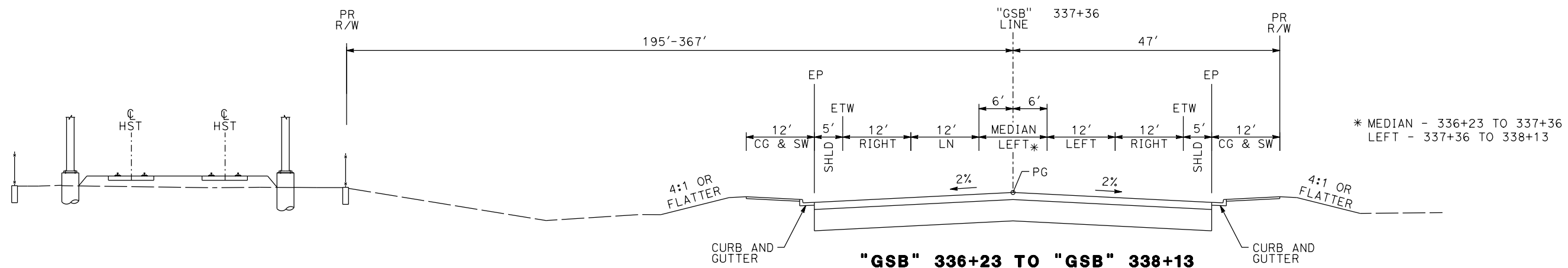
CONTRACT NO.	HSR06-007
DRAWING NO.	X-13
SCALE	
SHEET NO.	



"GSB" 305+92 TO "GSB" 333+02



"GSB" 333+02 TO "GSB" 336+23



"GSB" 336+23 TO "GSB" 338+13

GOLDEN STATE BOULEVARD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

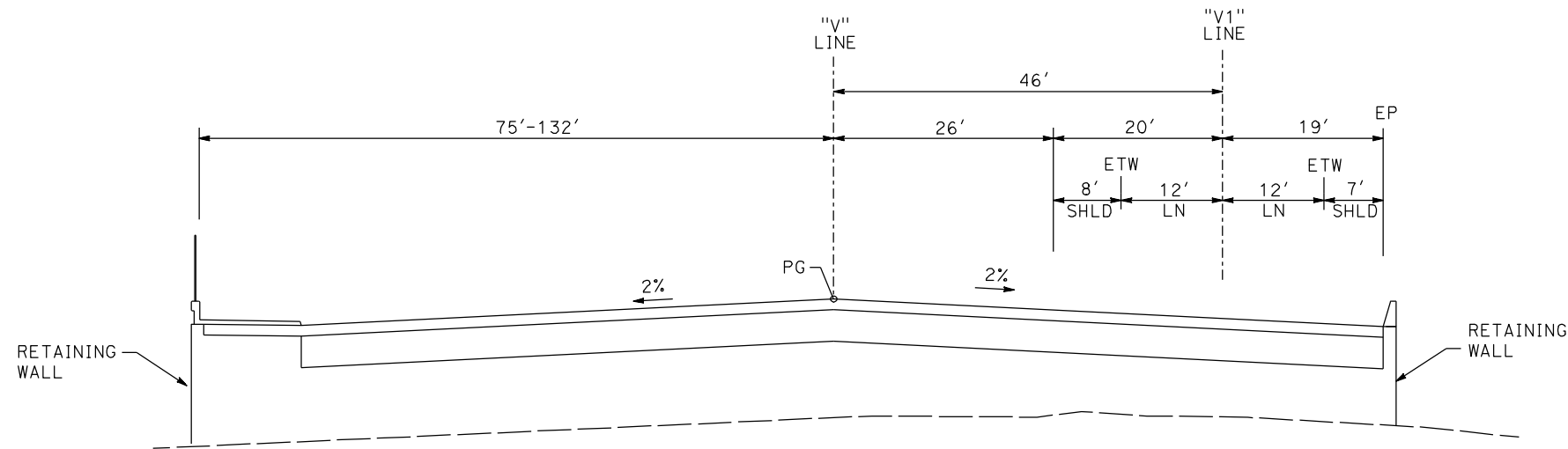
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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

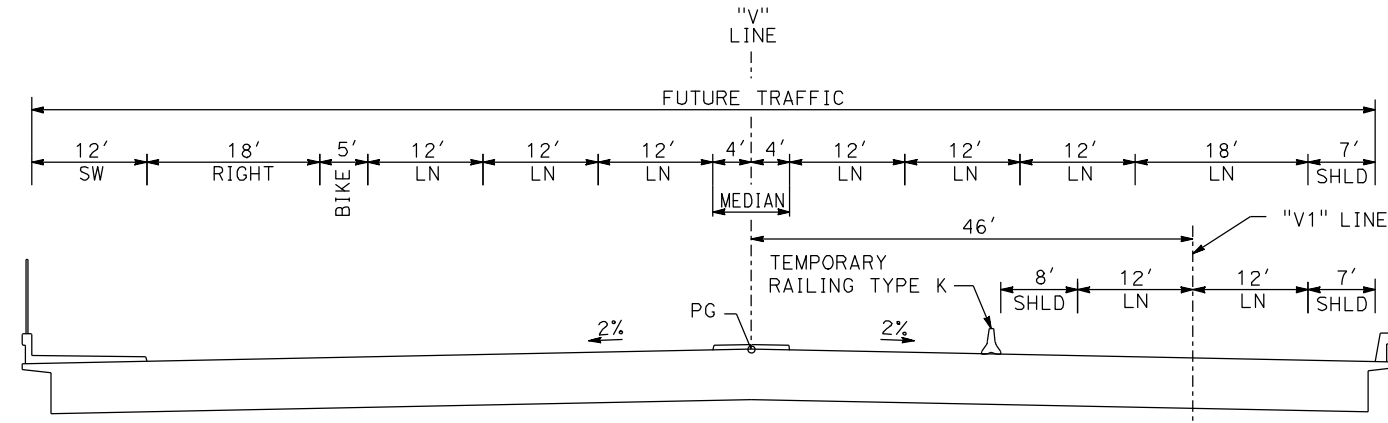


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

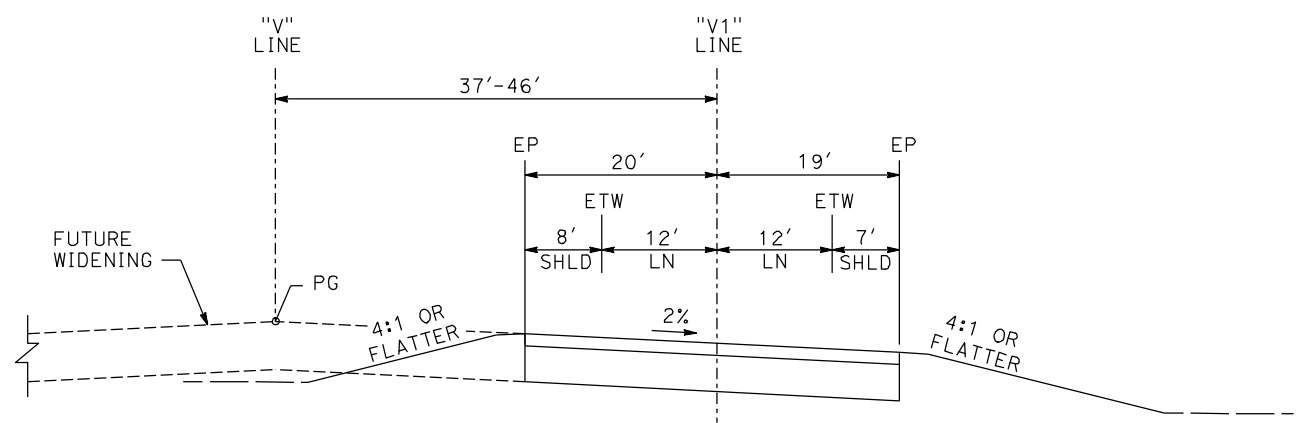
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HSR06-007
DRAWING NO.
X-14
SCALE
SHEET NO.



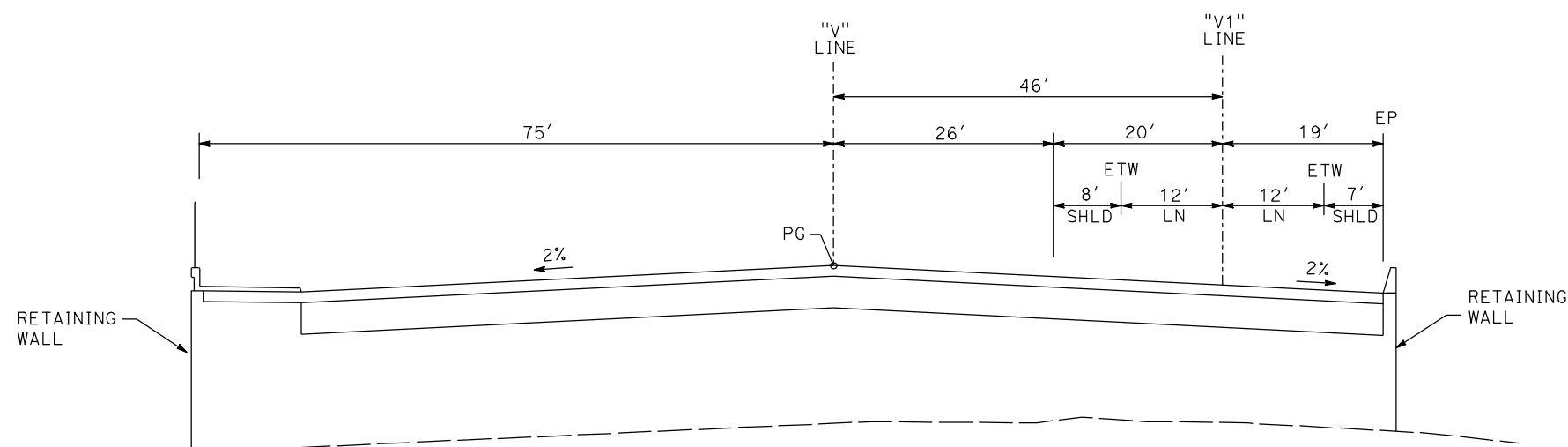
"V" 105+00 TO "V" 105+63



"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
G. MANOREK
DRAWN BY
B. CHAN
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
15% DESIGN
SUBMITTAL**

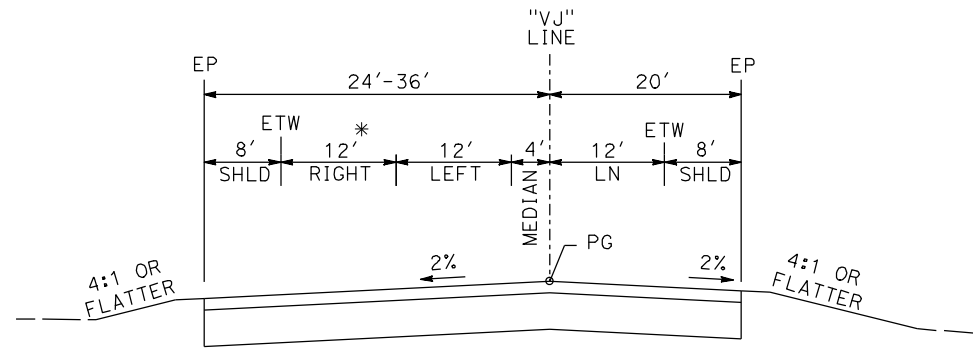
**NOT FOR
CONSTRUCTION**



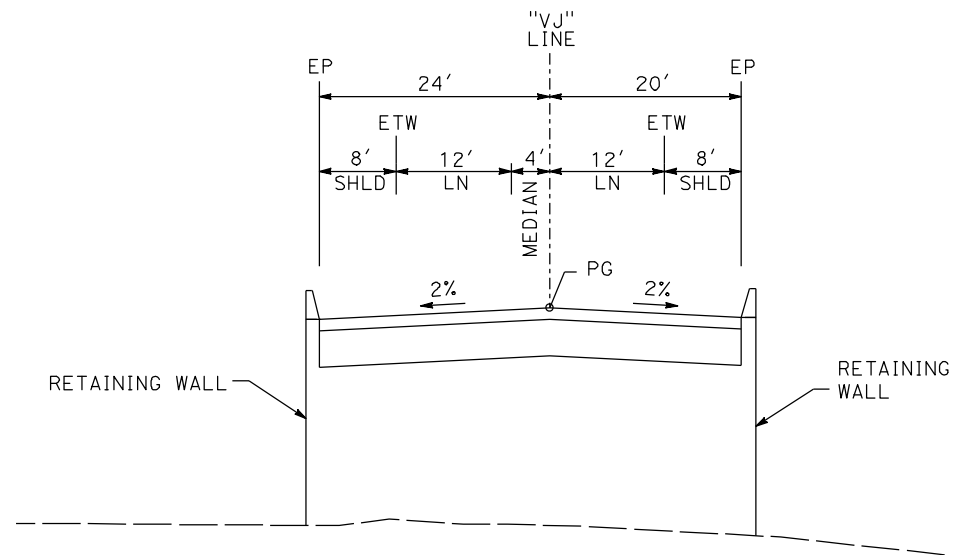
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-15
SCALE
SHEET NO.

* 0'-12' - FROM 12+61 TO 13+21

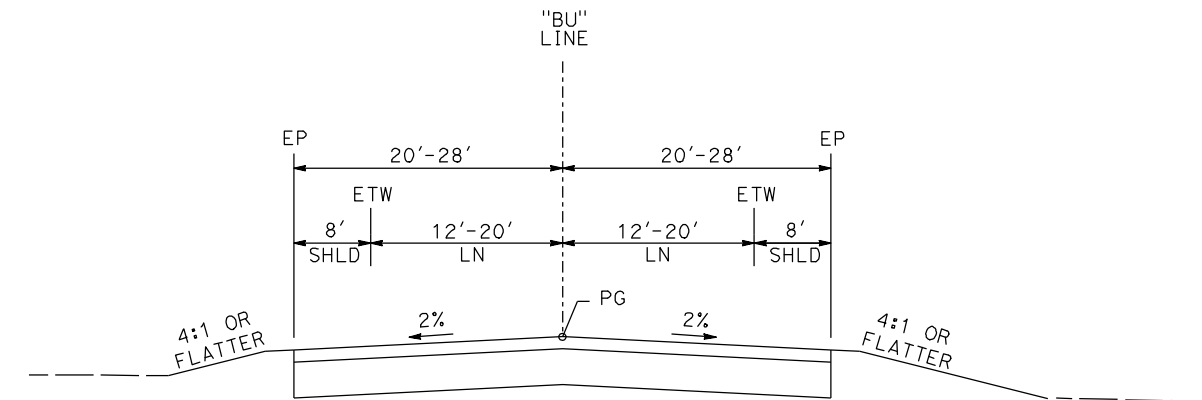


"VJ" 10+44 TO "VJ" 13+21

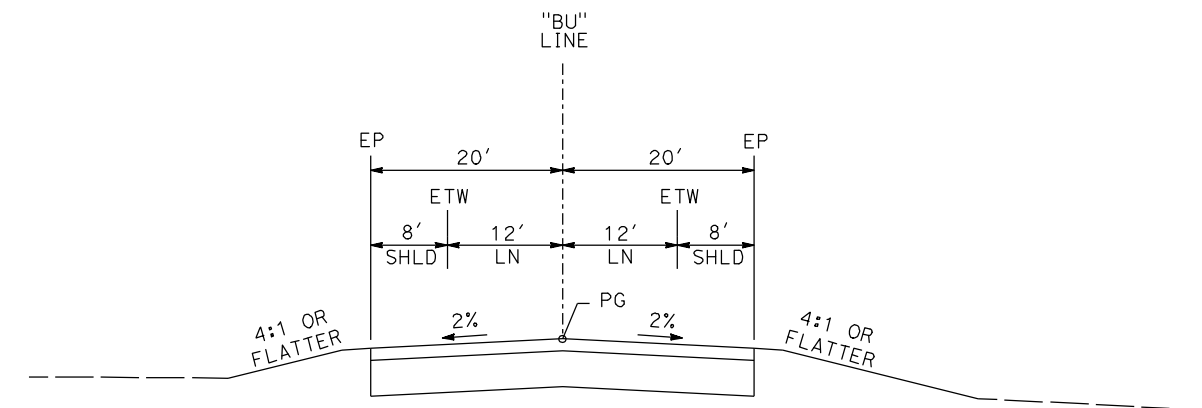


"VJ" 13+21 TO "VJ" 18+37

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

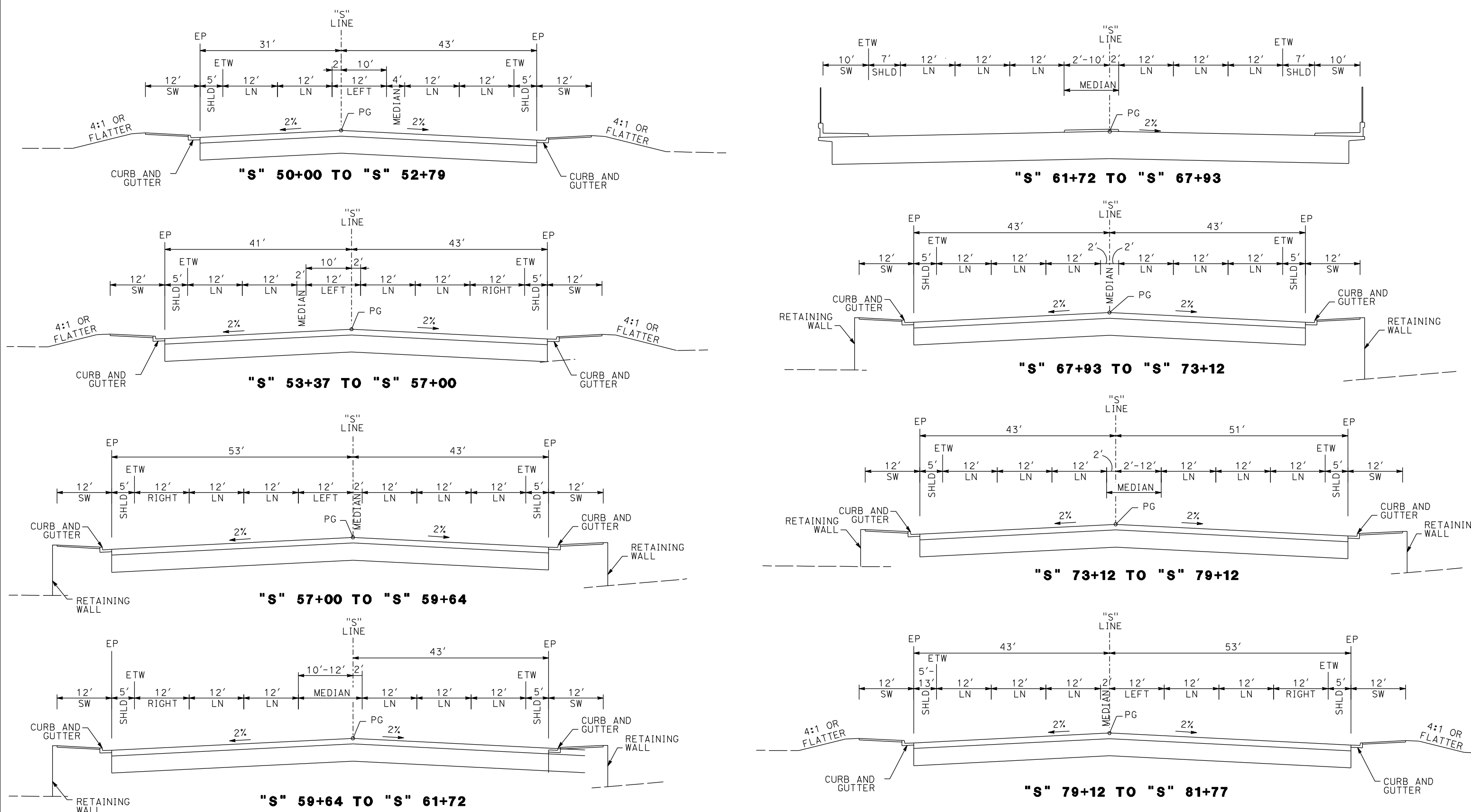
**RECORD SET
15% DESIGN
SUBMITTAL**

**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

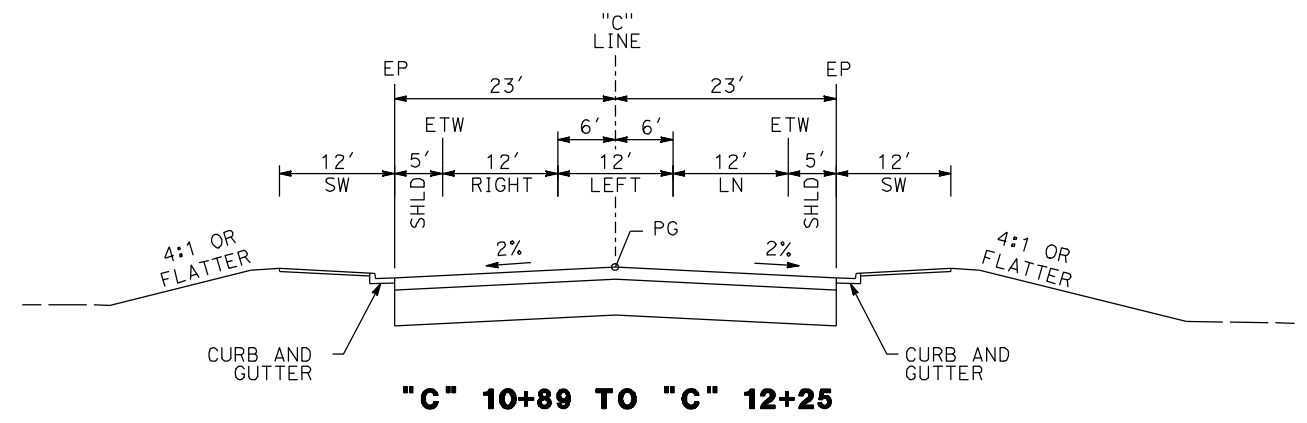
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

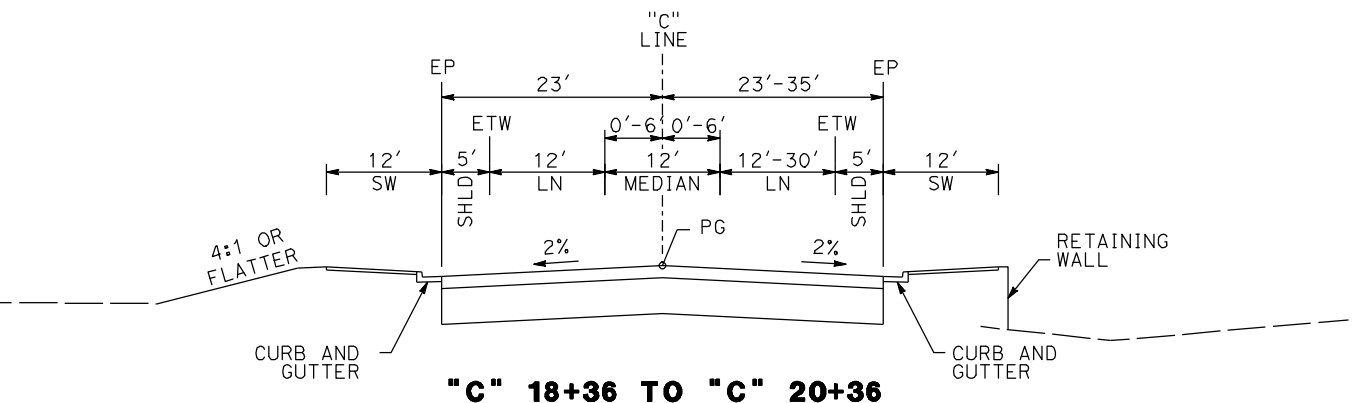


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
TYPICAL SECTION

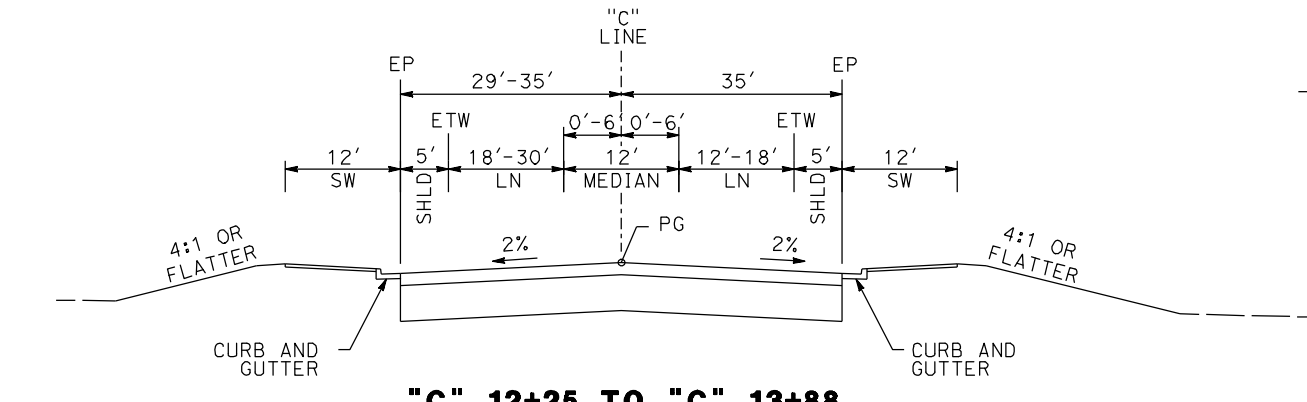
CONTRACT NO.
HSR06-007
DRAWING NO.
X-17
SCALE
SHEET NO.



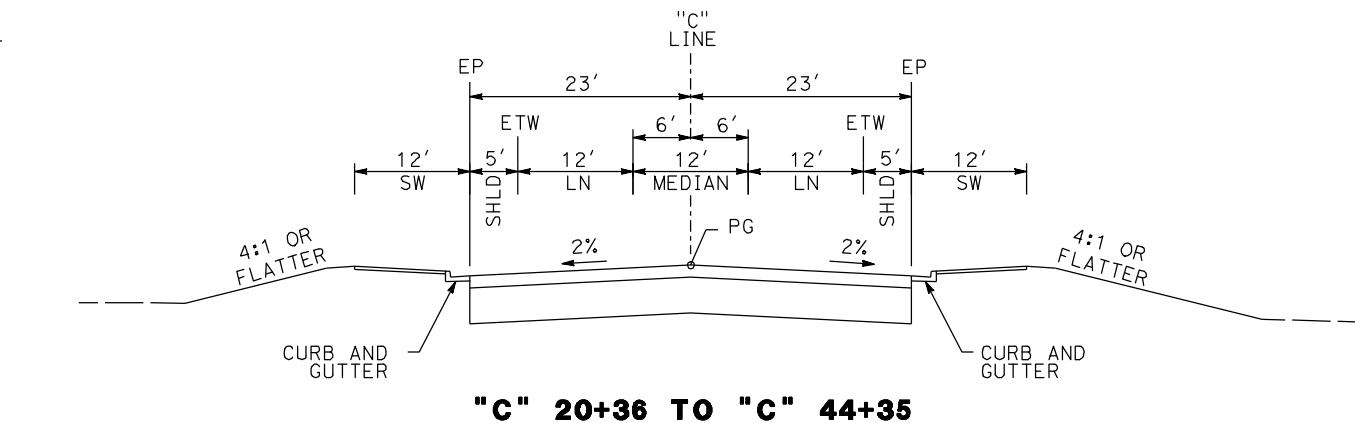
"C" 10+89 TO "C" 12+25



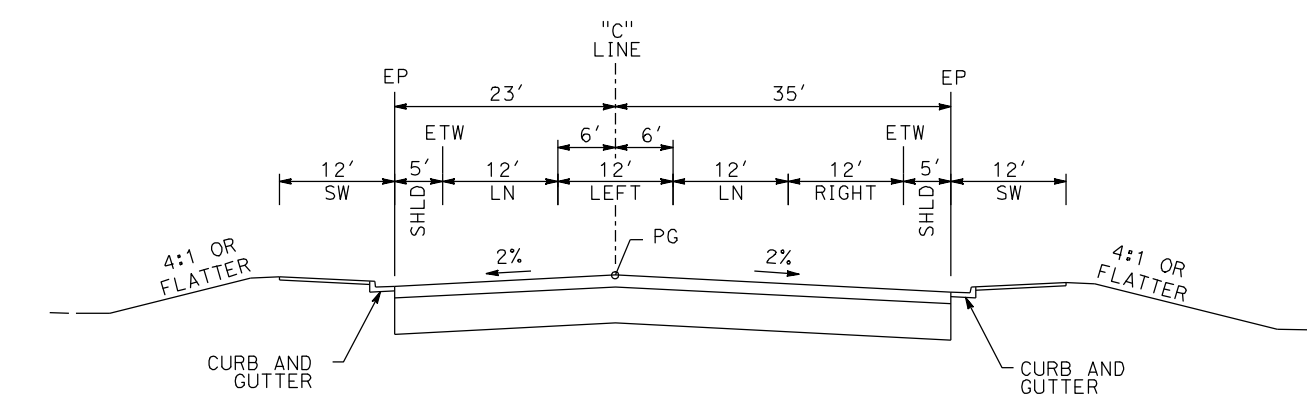
"C" 18+36 TO "C" 20+36



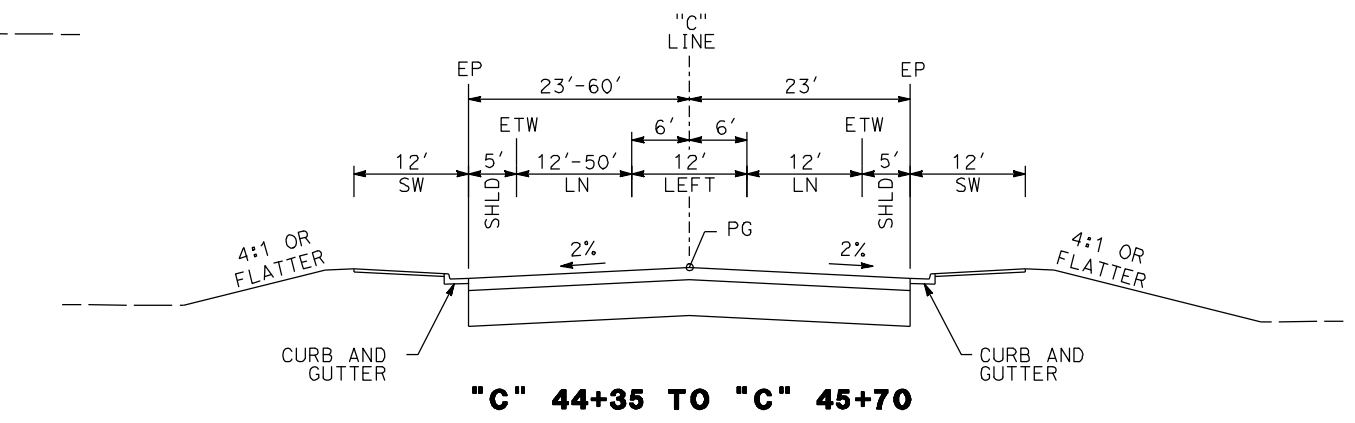
"C" 12+25 TO "C" 13+88



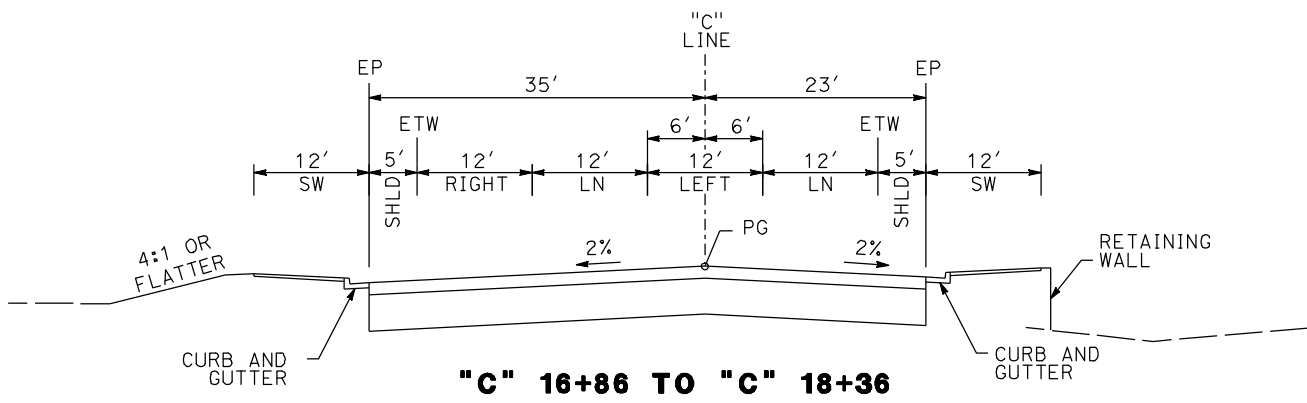
"C" 20+36 TO "C" 44+35



"C" 13+88 TO "C" 14+99



"C" 44+35 TO "C" 45+70



"C" 16+86 TO "C" 18+36

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

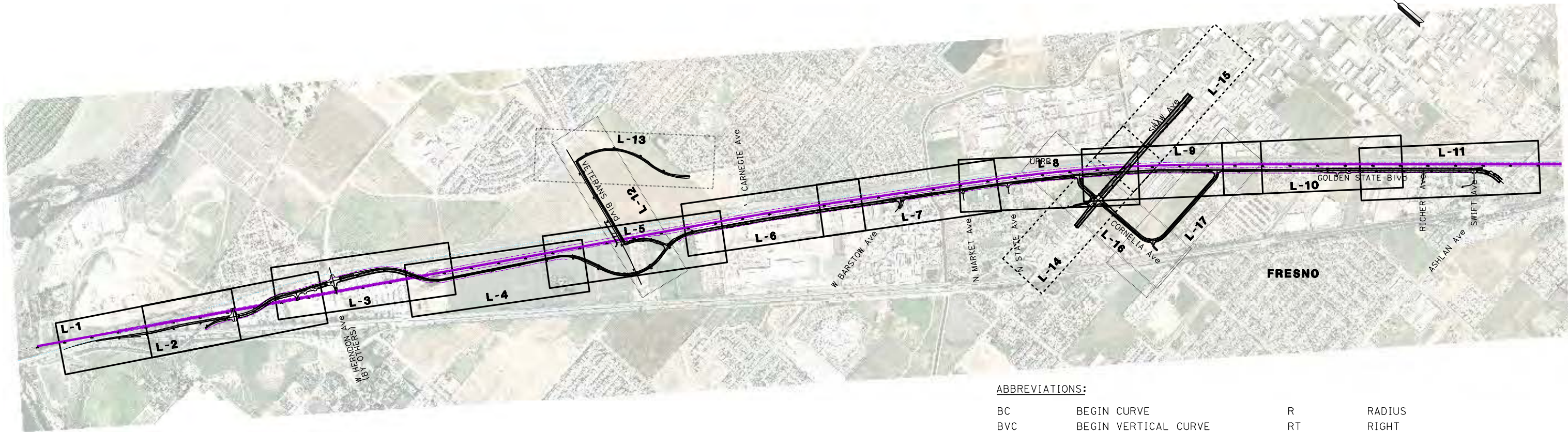
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
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

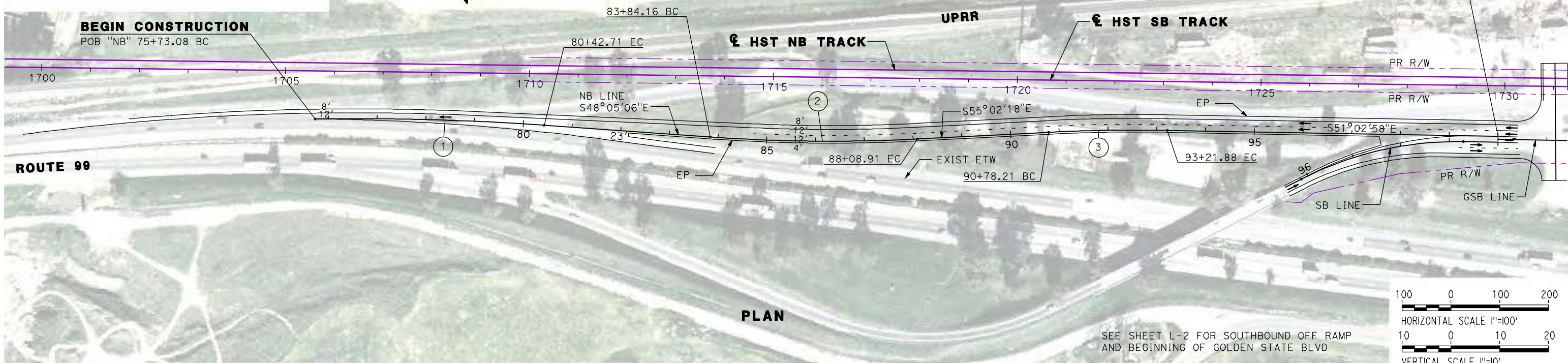
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
KEYMAP**

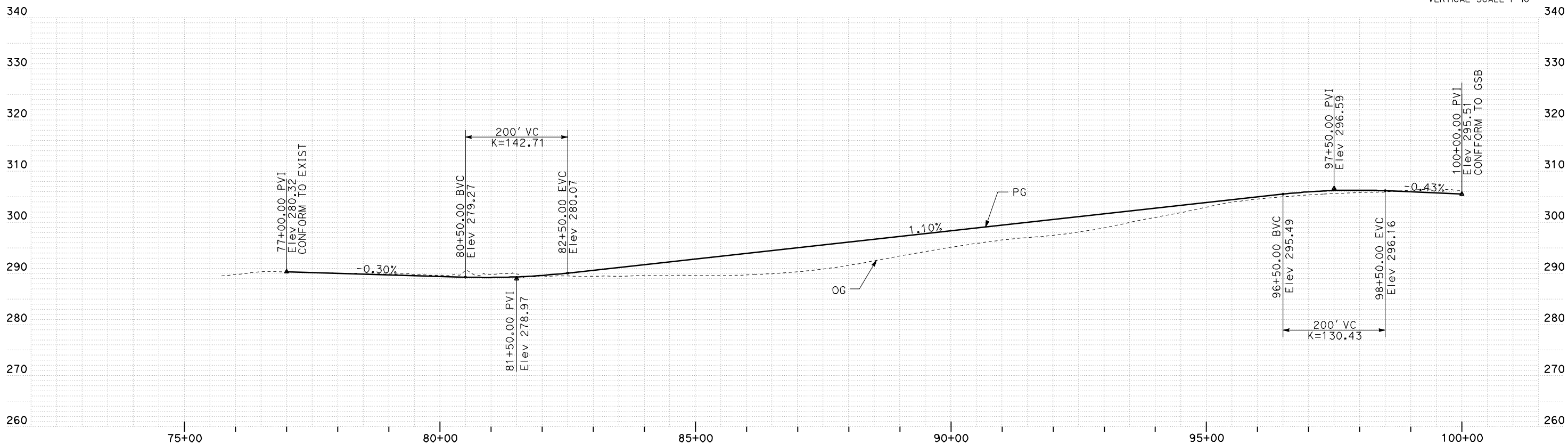
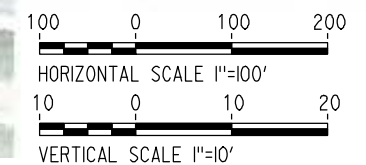
CONTRACT NO. HSR06-007
DRAWING NO. K-1
SCALE NTS
SHEET NO.

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

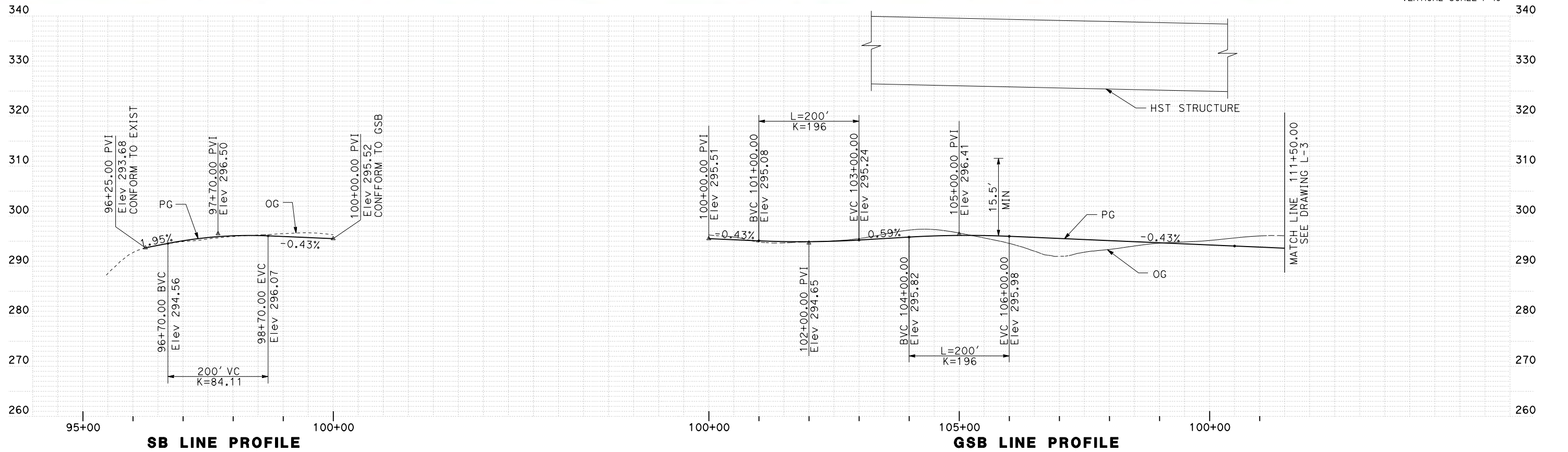
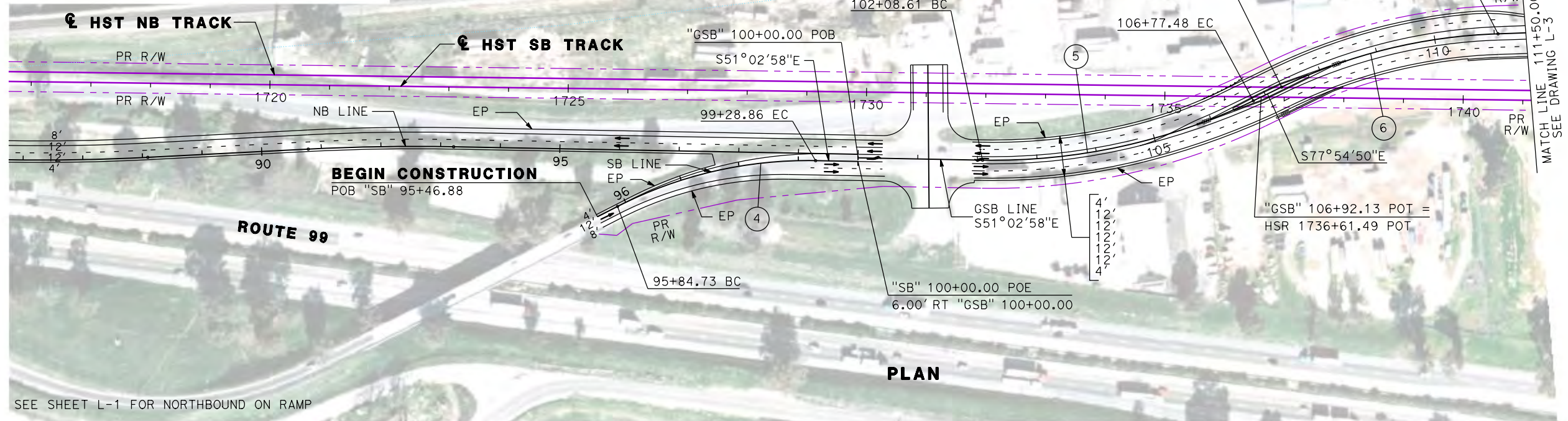
NOT FOR
CONSTRUCTION



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
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L. HEUSTON
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J. MATSUI-DRURY
DATE
04/29/11

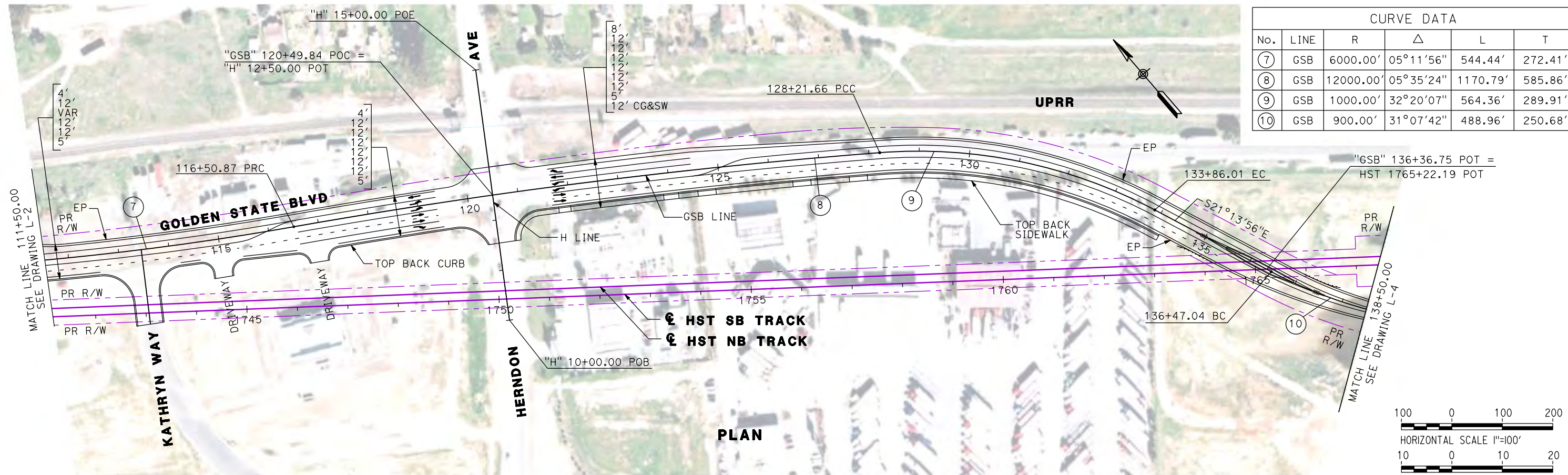
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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

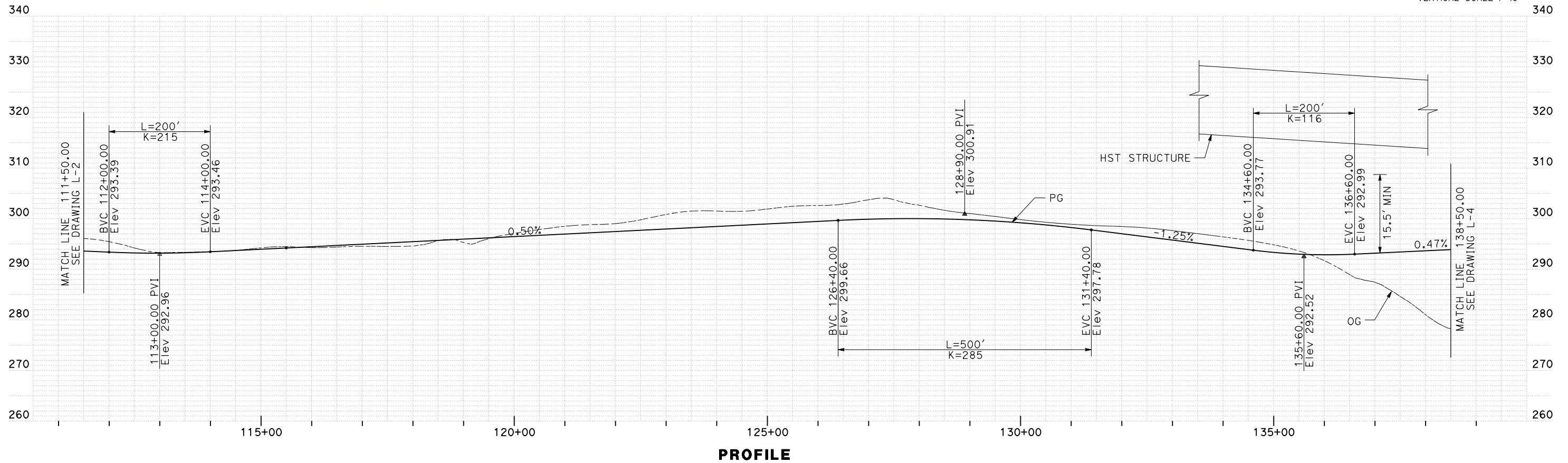
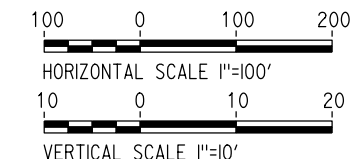


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 100+00 TO "GSB" 111+50

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

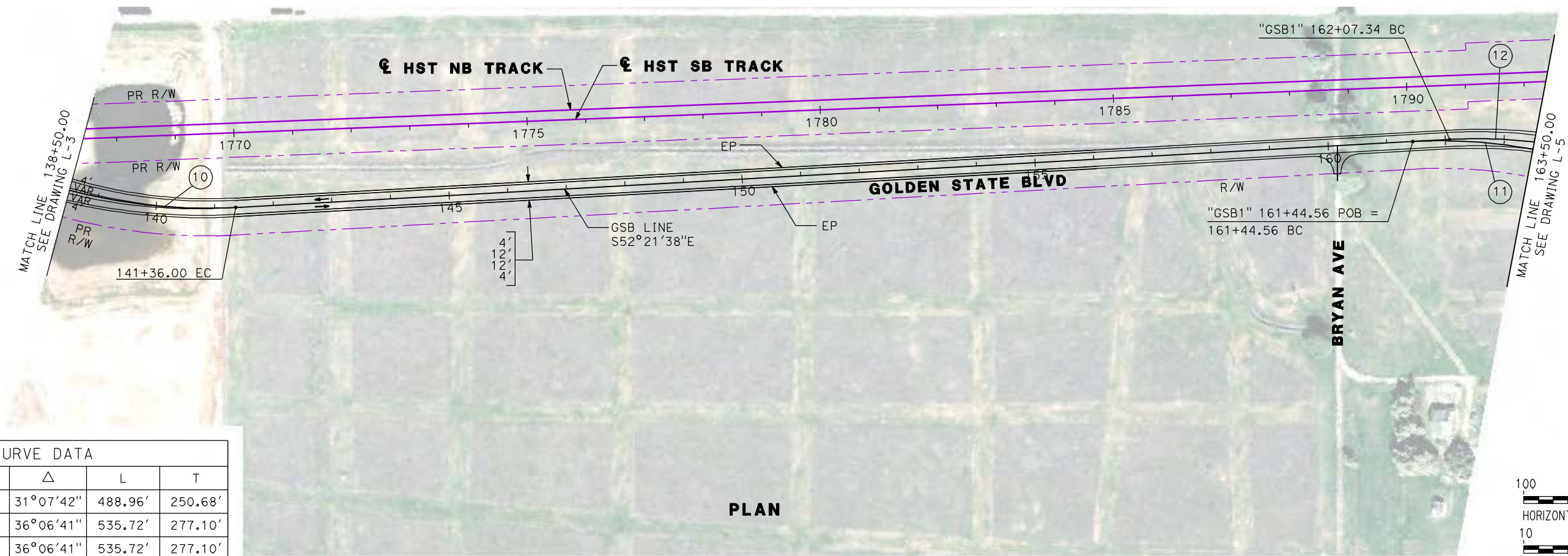
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 111+50 TO "GSB" 138+50

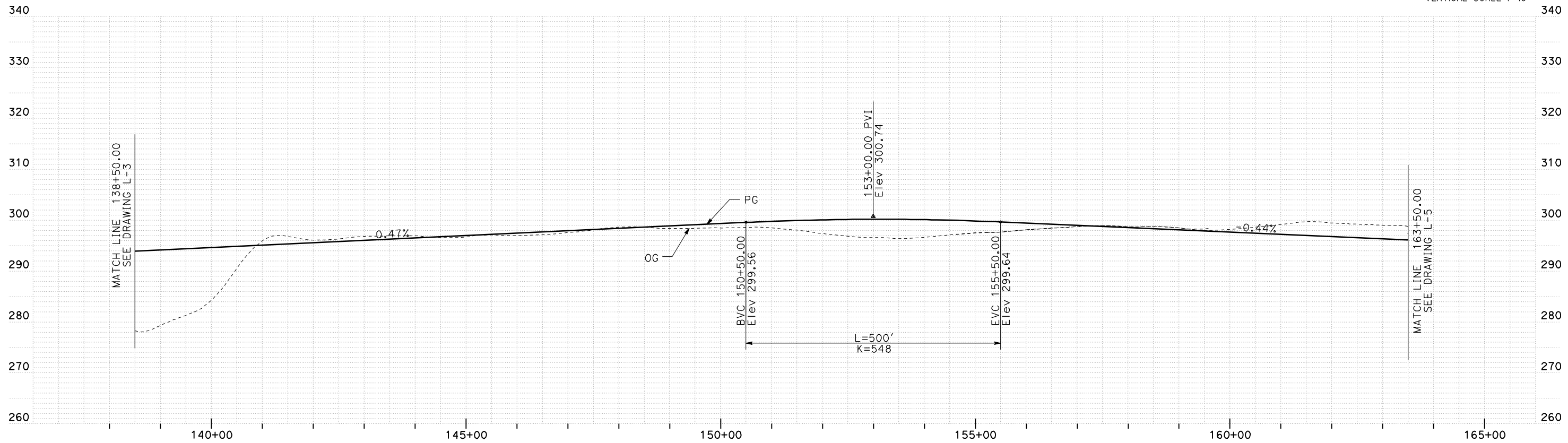
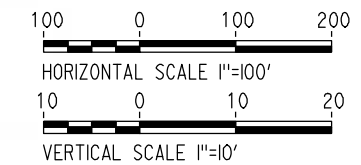
CONTRACT NO.
HSR06-007
DRAWING NO.
L-3
SCALE
AS SHOWN
SHEET NO.



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**

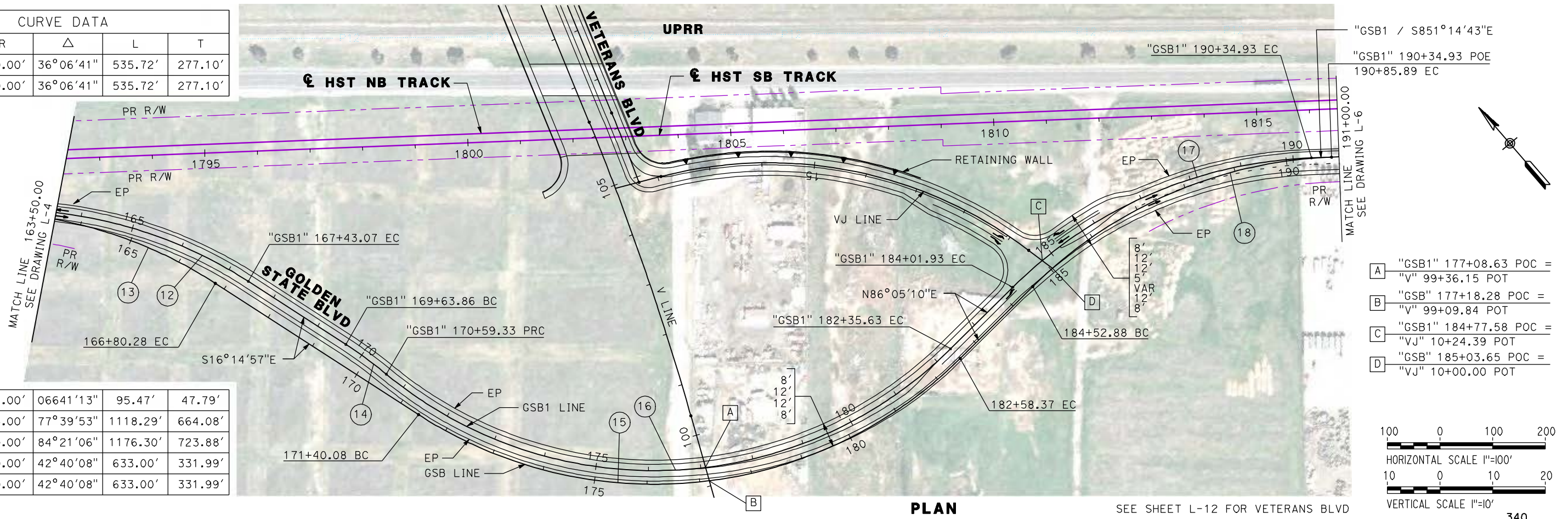


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 138+50 TO "GSB" 163+50**

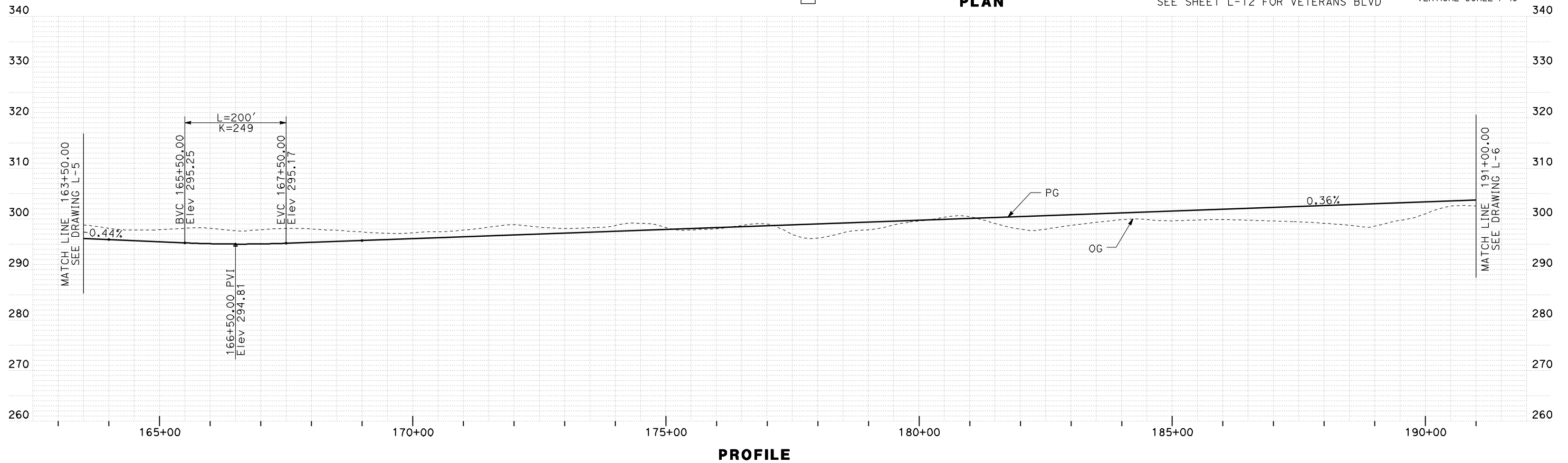
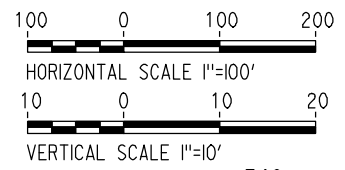
CONTRACT NO.
HSR06-007
DRAWING NO.
L-4
SCALE
AS SHOWN
SHEET NO.

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

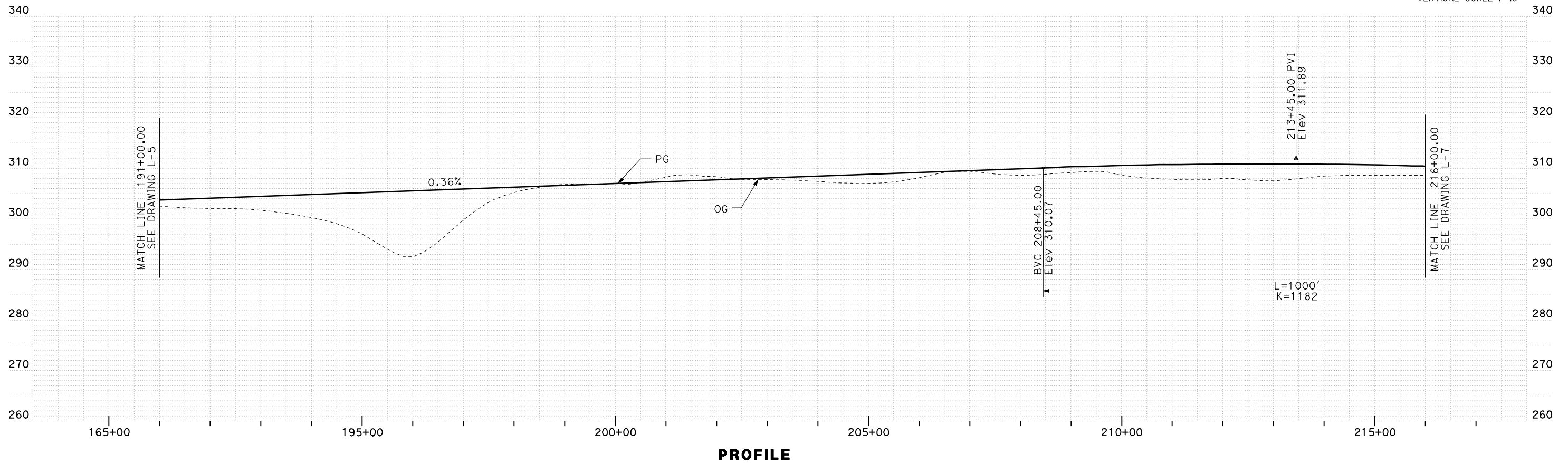
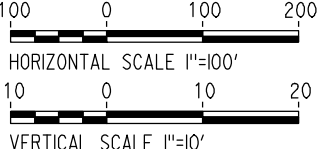
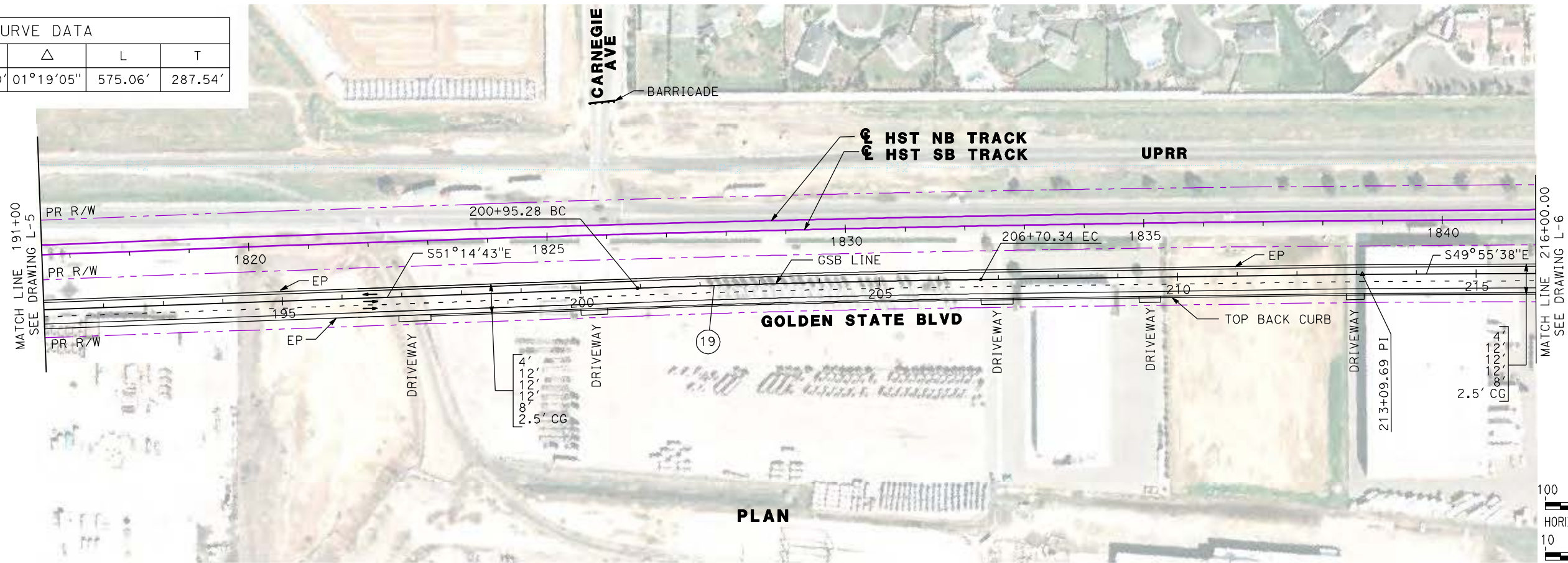
NOT FOR
CONSTRUCTION



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

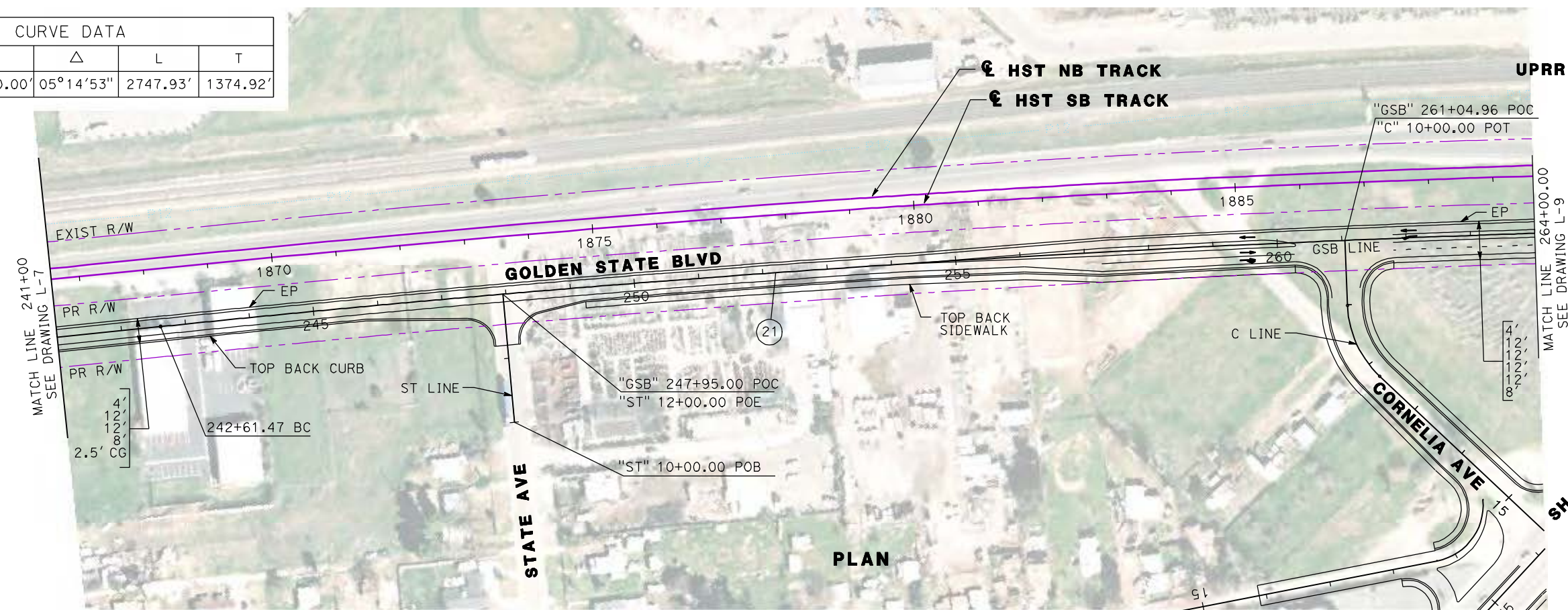
NOT FOR
CONSTRUCTION



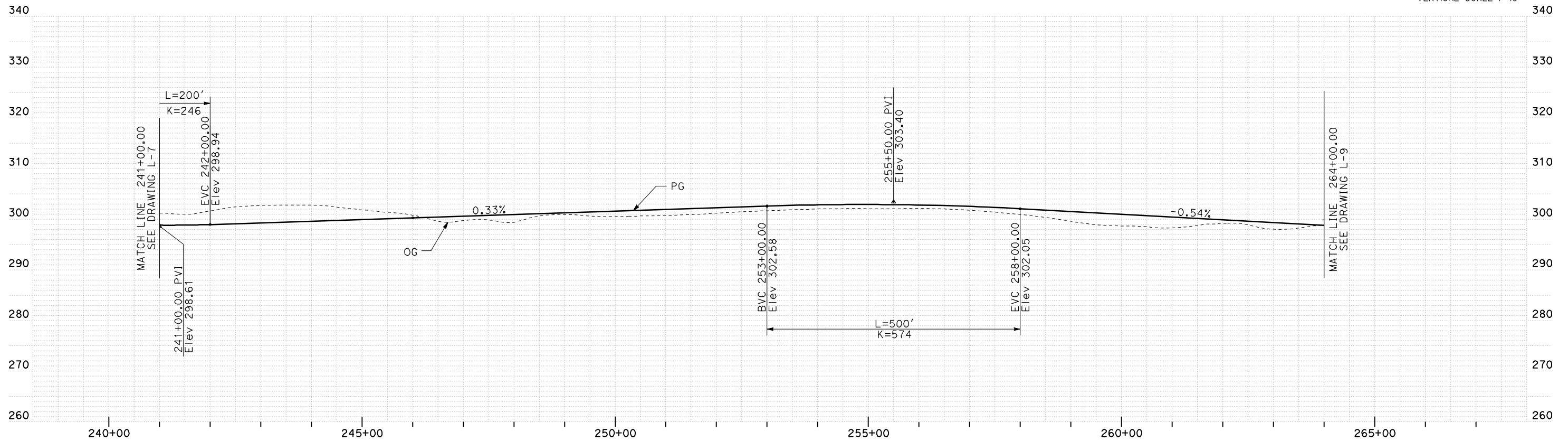
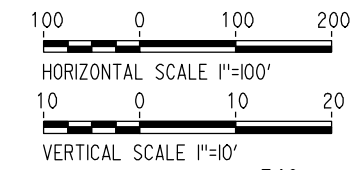
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 191+00 TO "GSB" 216+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-6
SCALE
AS SHOWN
SHEET NO.

CURVE DATA					
No.	LINE	R	Δ	L	T
(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



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

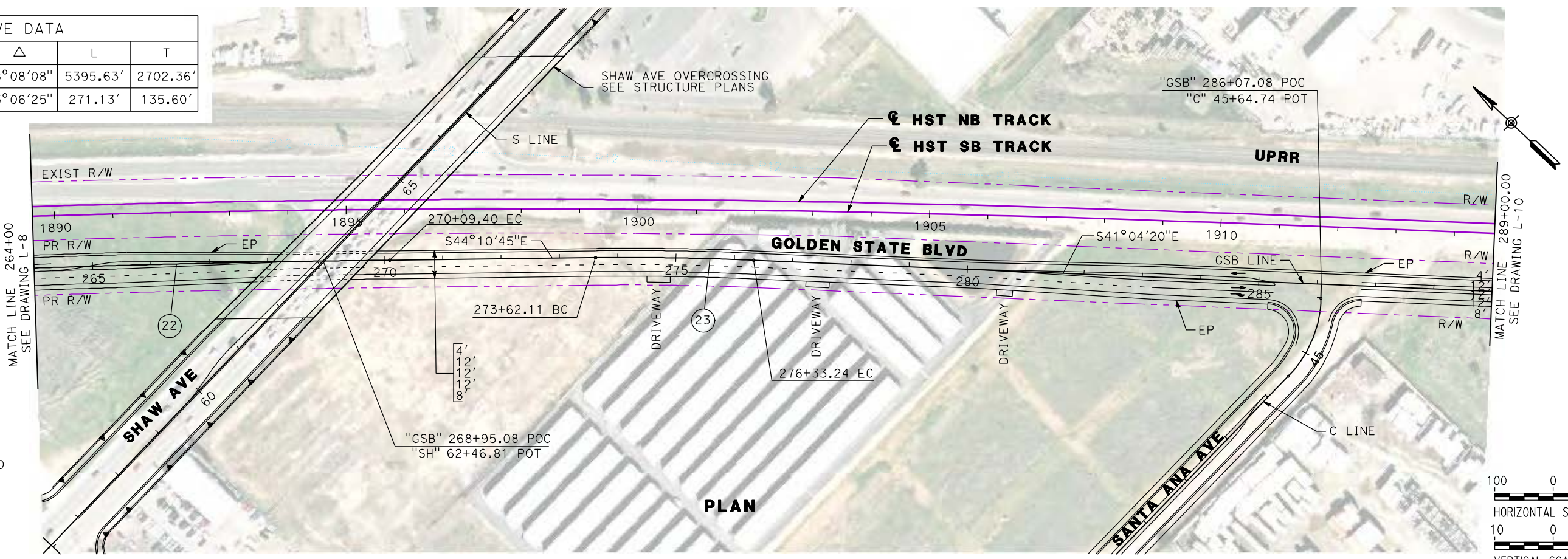
NOT FOR
CONSTRUCTION



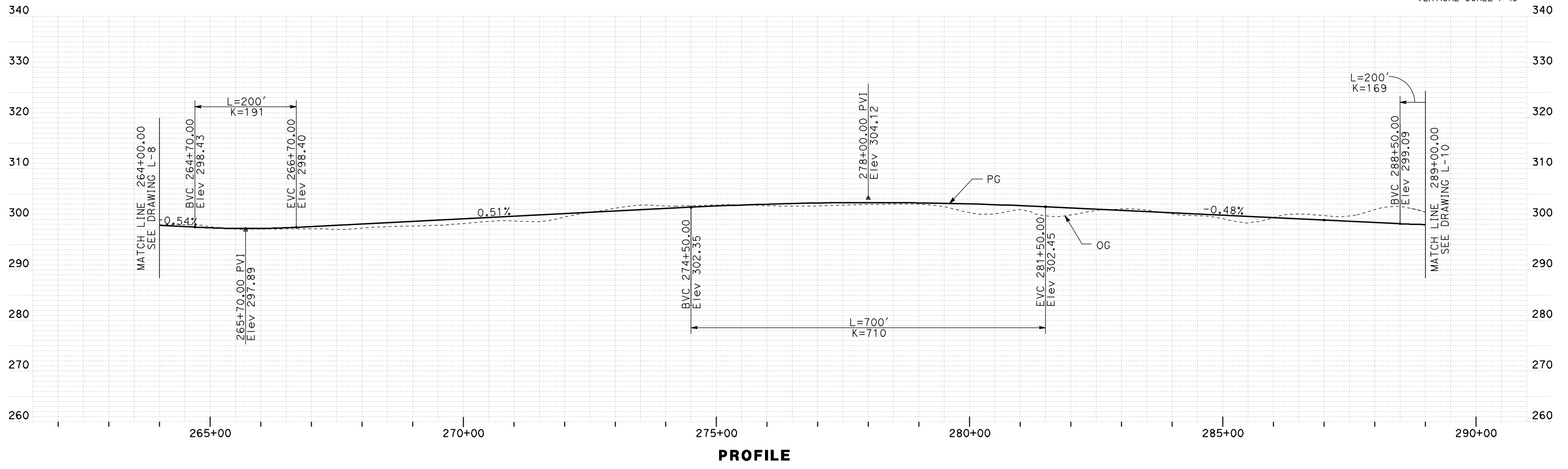
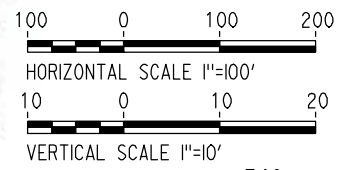
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 241+00 TO "GSB" 264+00

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

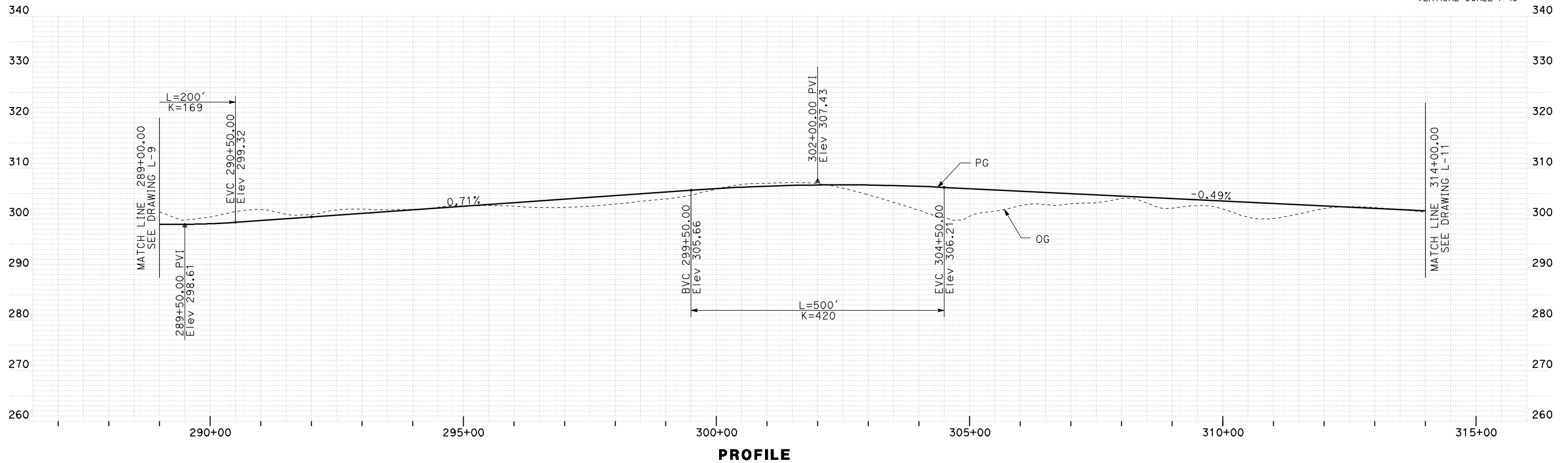
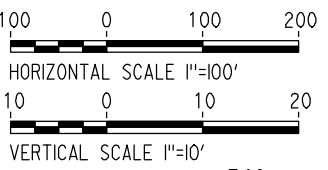
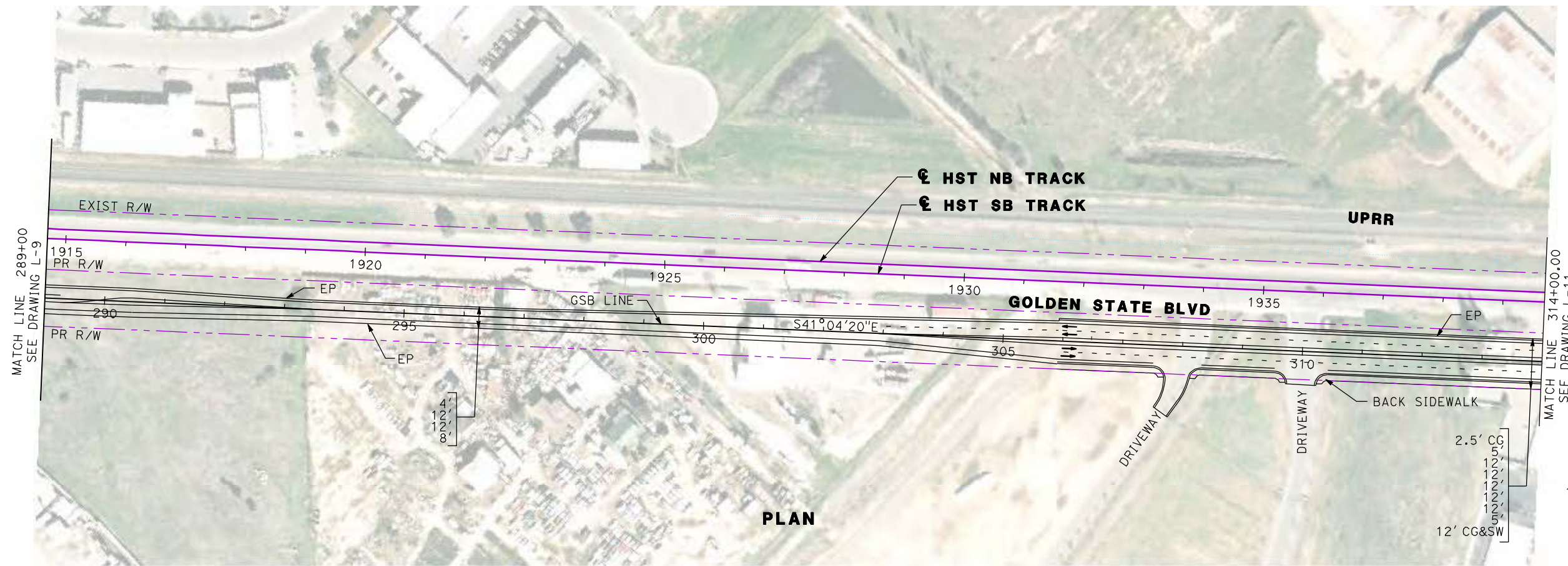
RECORD SET
15% DESIGN
SUBMITTAL

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

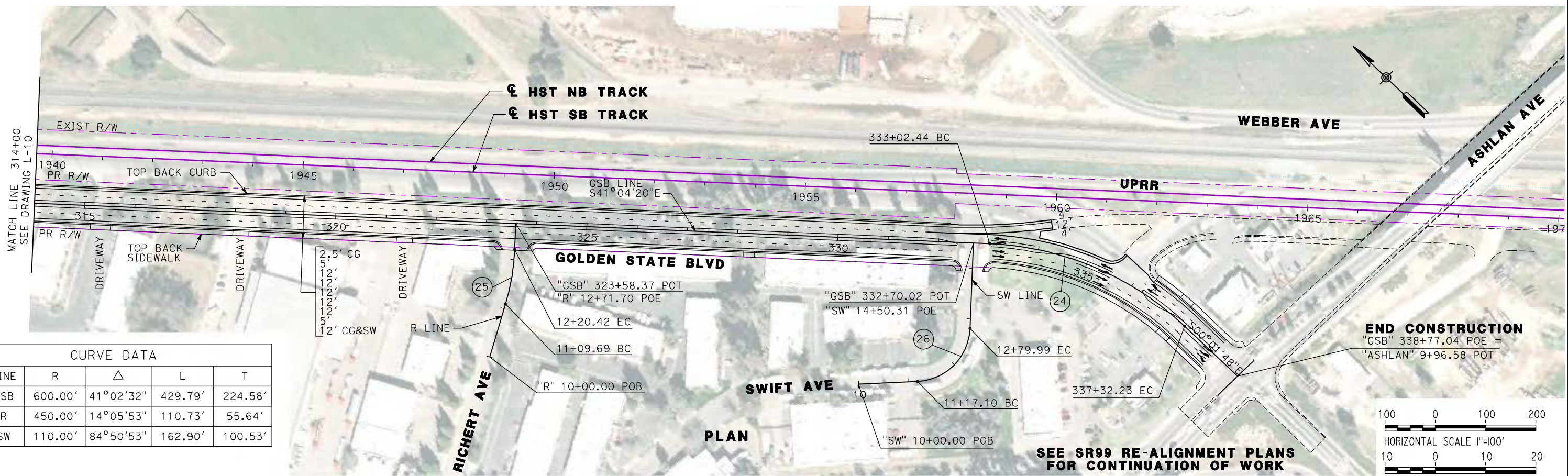
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

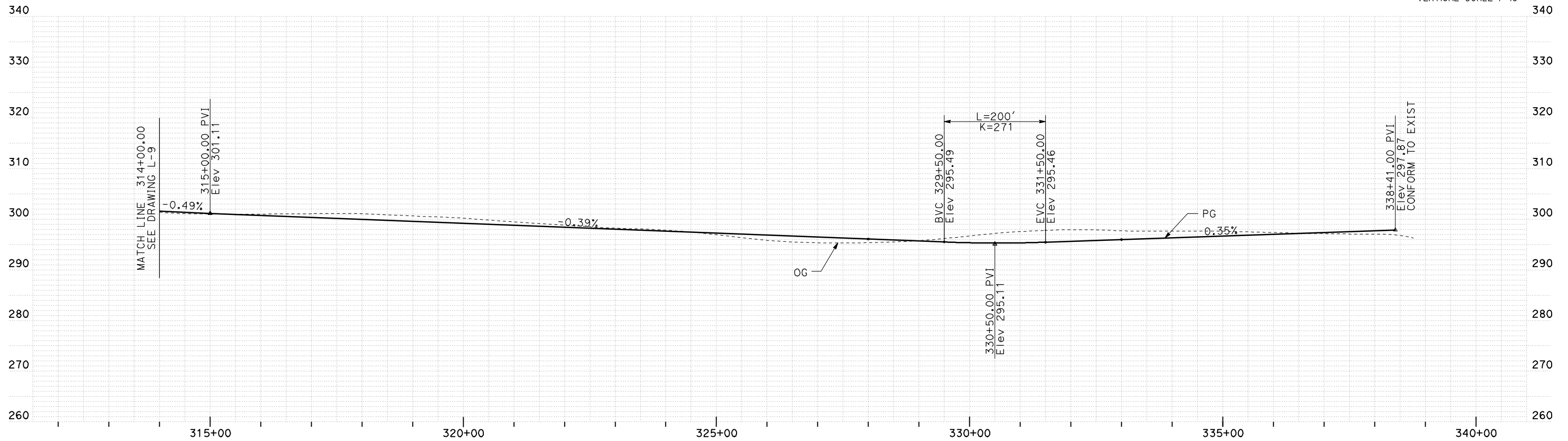
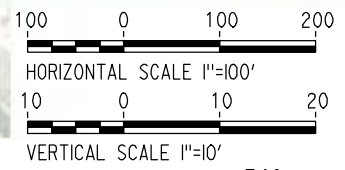


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 289+00 TO "GSB" 314+00**

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

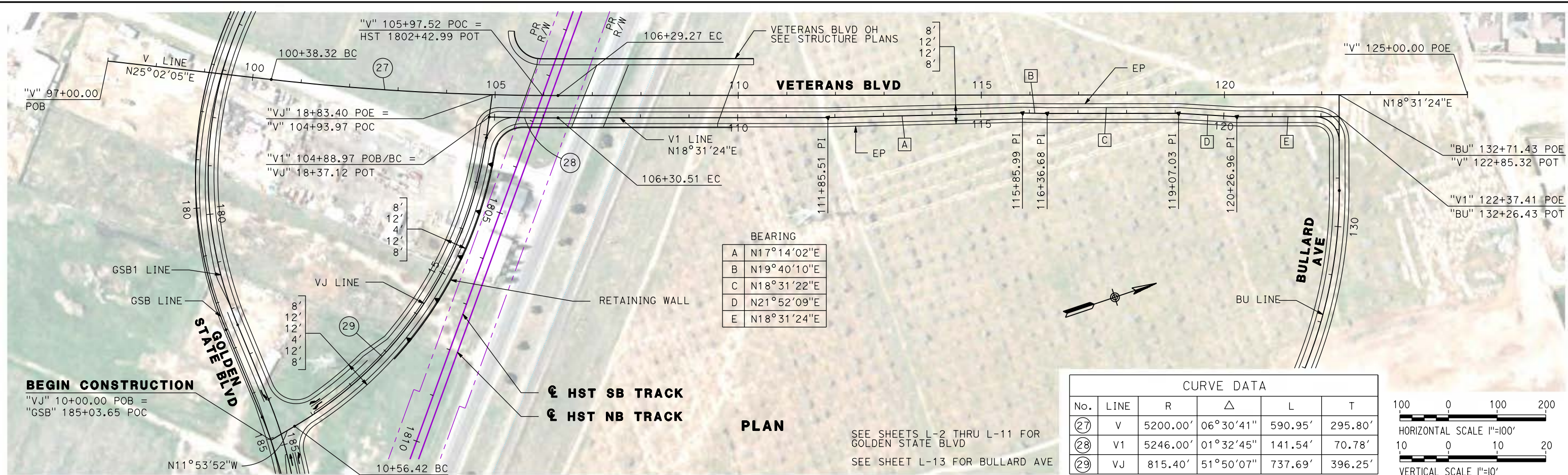
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



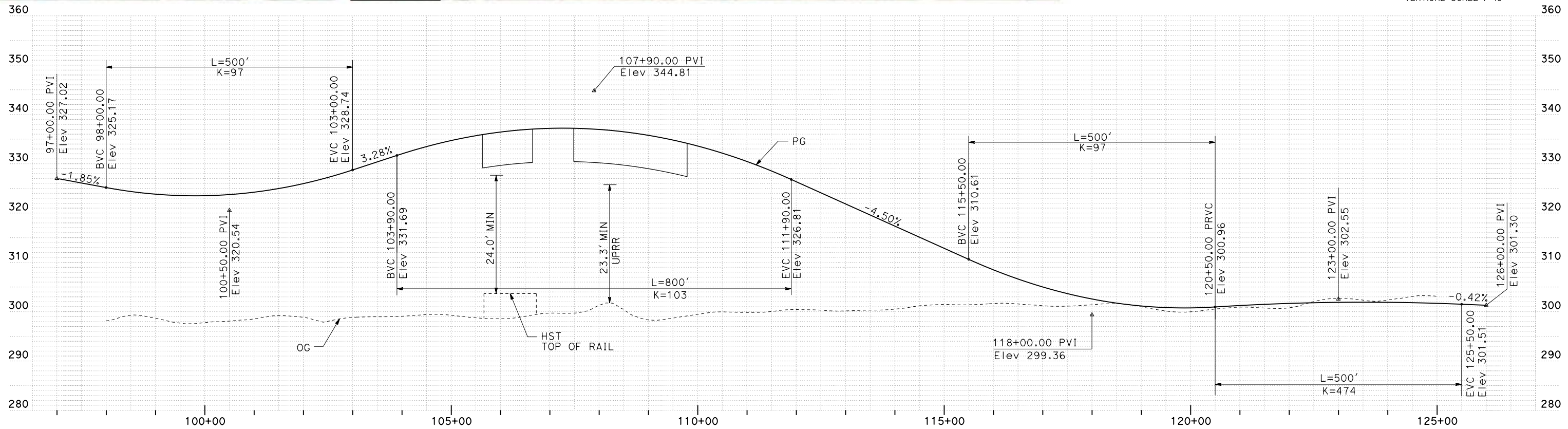
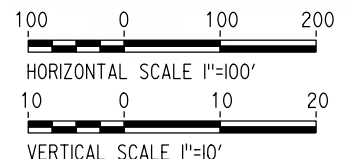
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
LAYOUT
"GSB" 314+00 TO "GSB" 338+77

CONTRACT NO.
HSR06-007
DRAWING NO.
L-11
SCALE
AS SHOWN
SHEET NO.



PLAN

SEE SHEETS L-2 THRU L-11 FOR GOLDEN STATE BLVD
SEE SHEET L-13 FOR BULLARD AVE



SEE SHEET L-13 FOR VJ 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

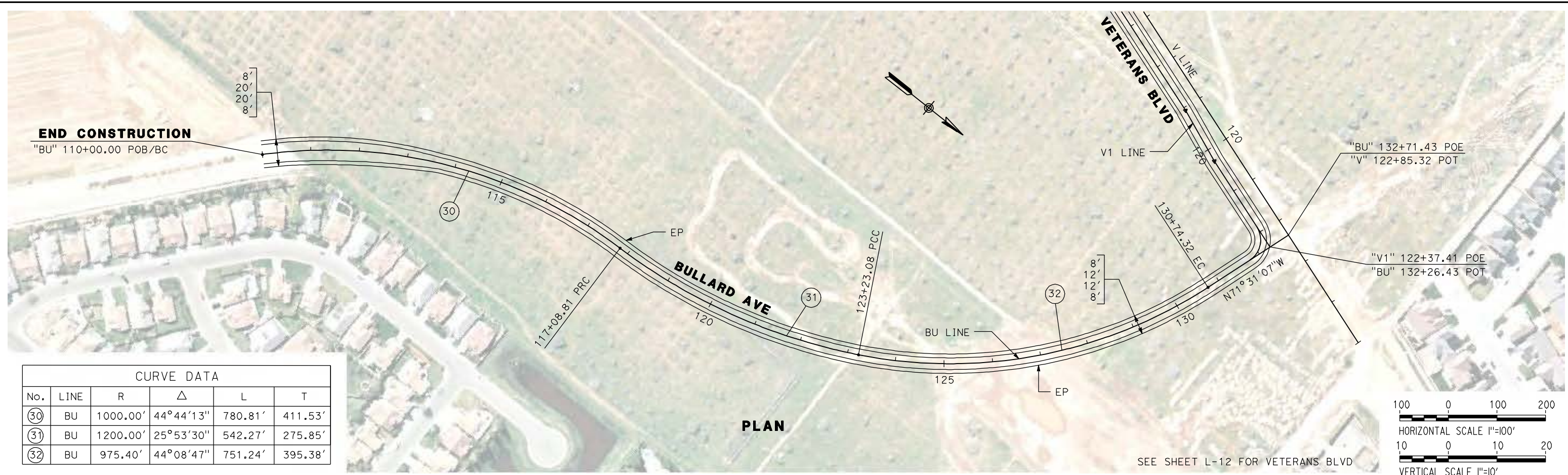
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

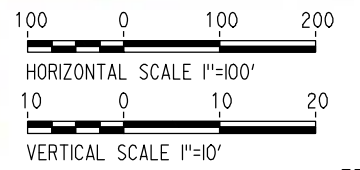


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
VETERANS BOULEVARD
LAYOUT
"V" 105+00 TO "V" 122+35

CONTRACT NO.
HSR06-007
DRAWING NO.
L-12
SCALE
AS SHOWN
SHEET NO.



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

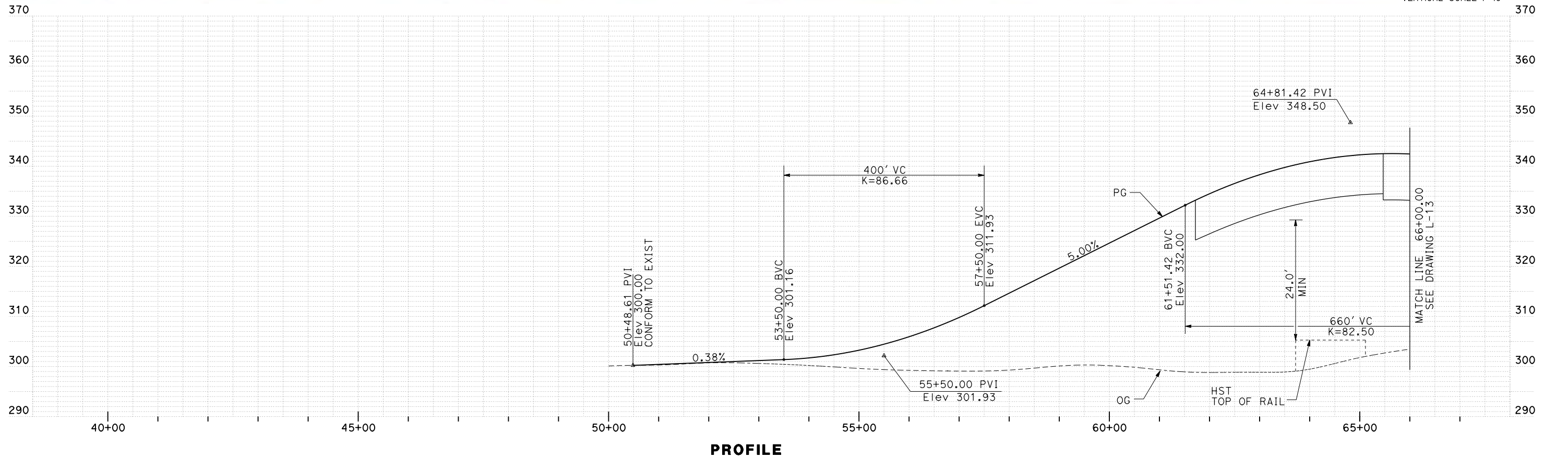
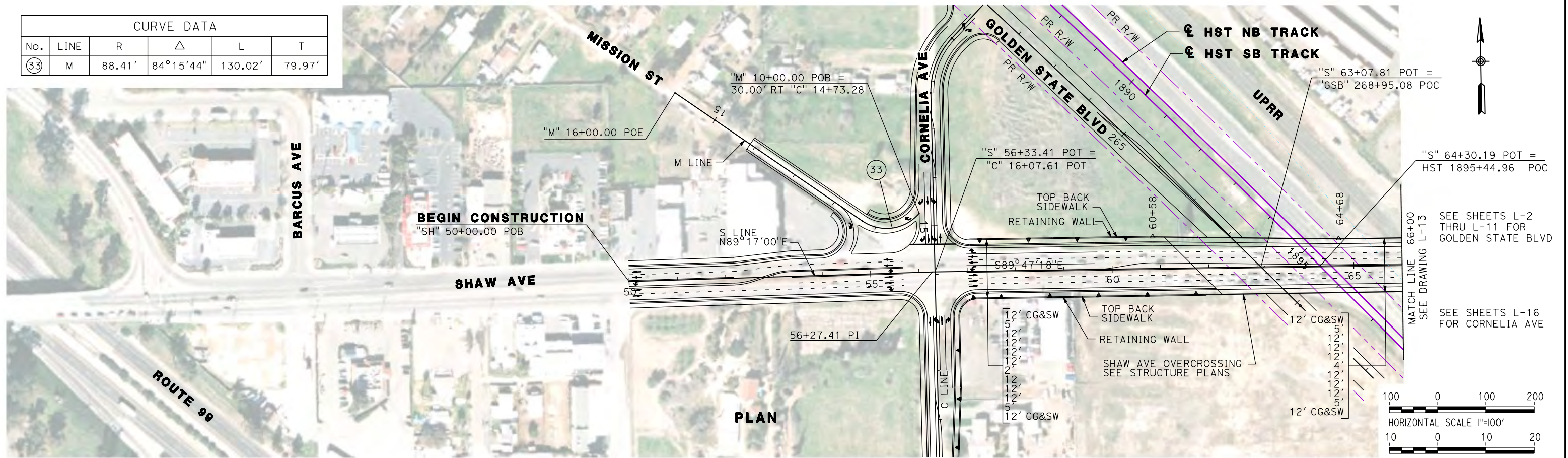
NOT FOR
CONSTRUCTION



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

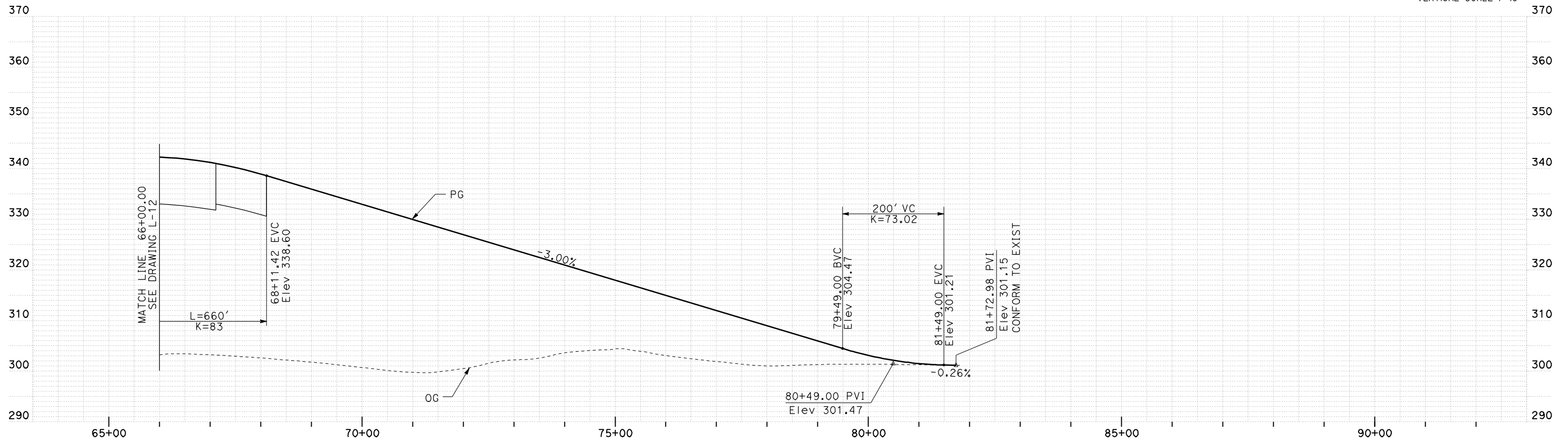
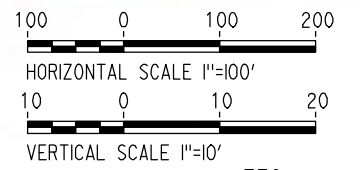
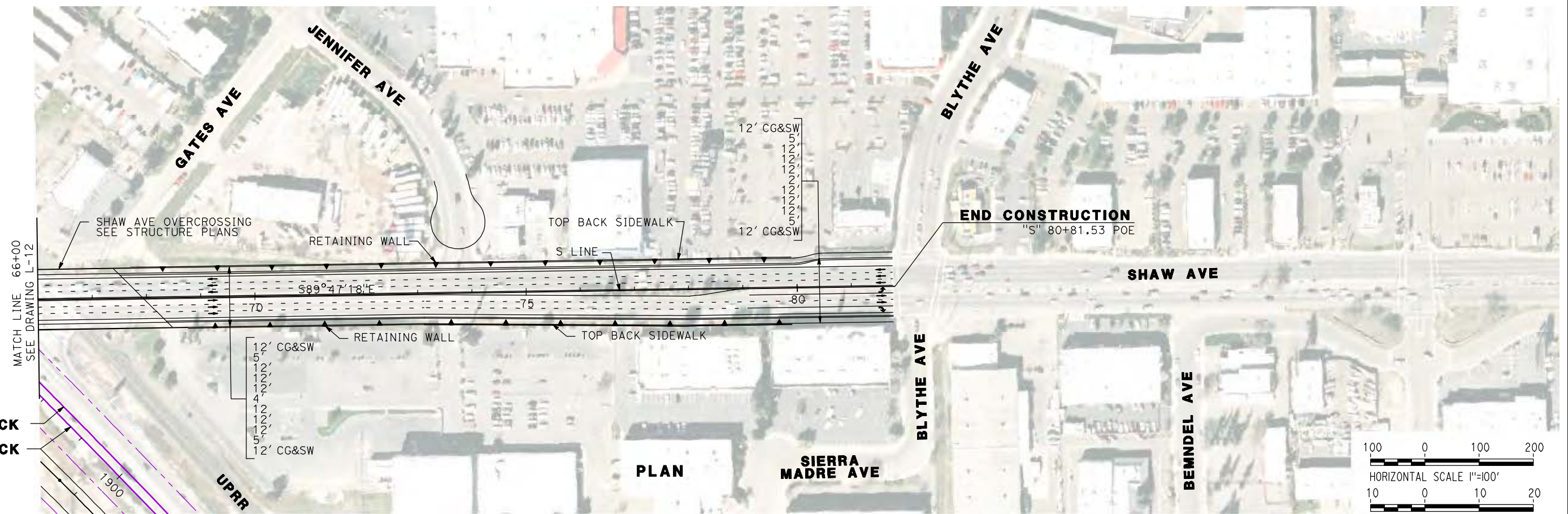
NOT FOR
CONSTRUCTION



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



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



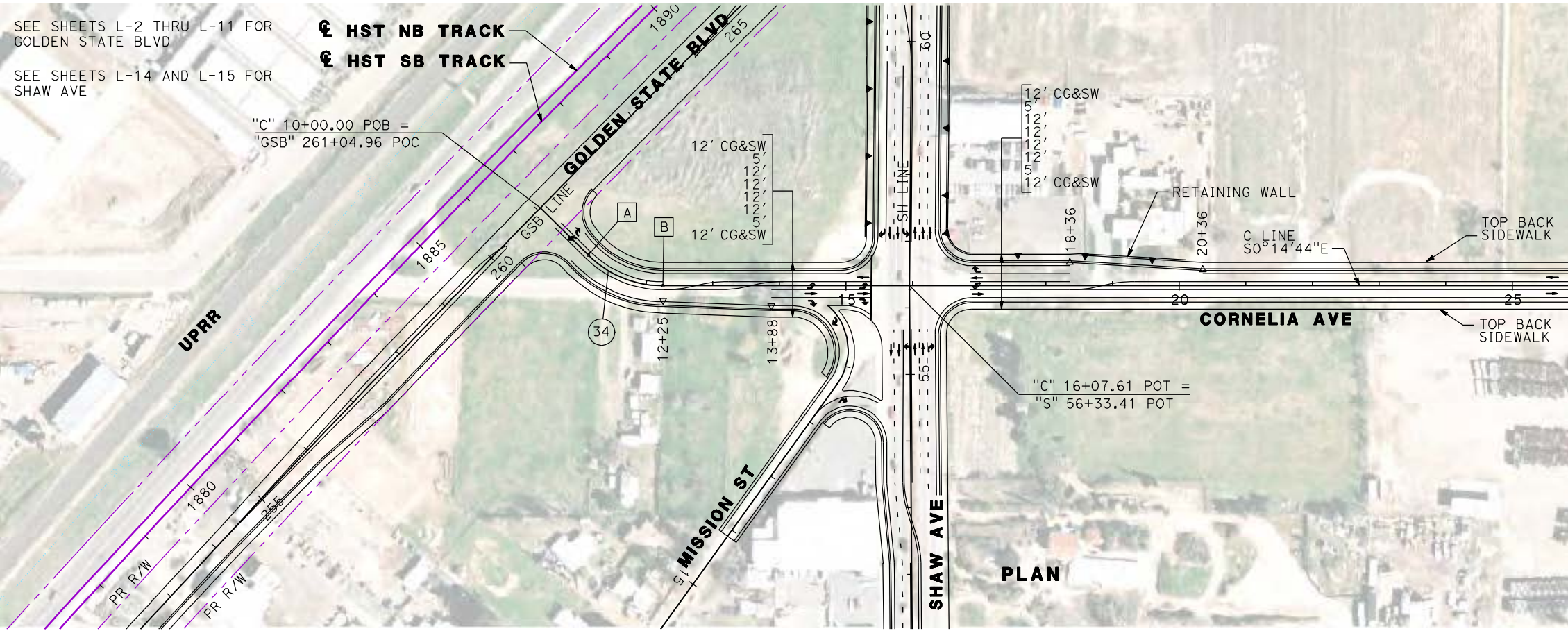
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
SHAW AVENUE RE-ALIGNMENT
LAYOUT
"S" 66+00 TO "S" 80+81

CONTRACT NO.
HSR06-007
DRAWING NO.
L-15
SCALE
AS SHOWN
SHEET NO.

SEE SHEETS L-2 THRU L-11 FOR GOLDEN STATE BLVD

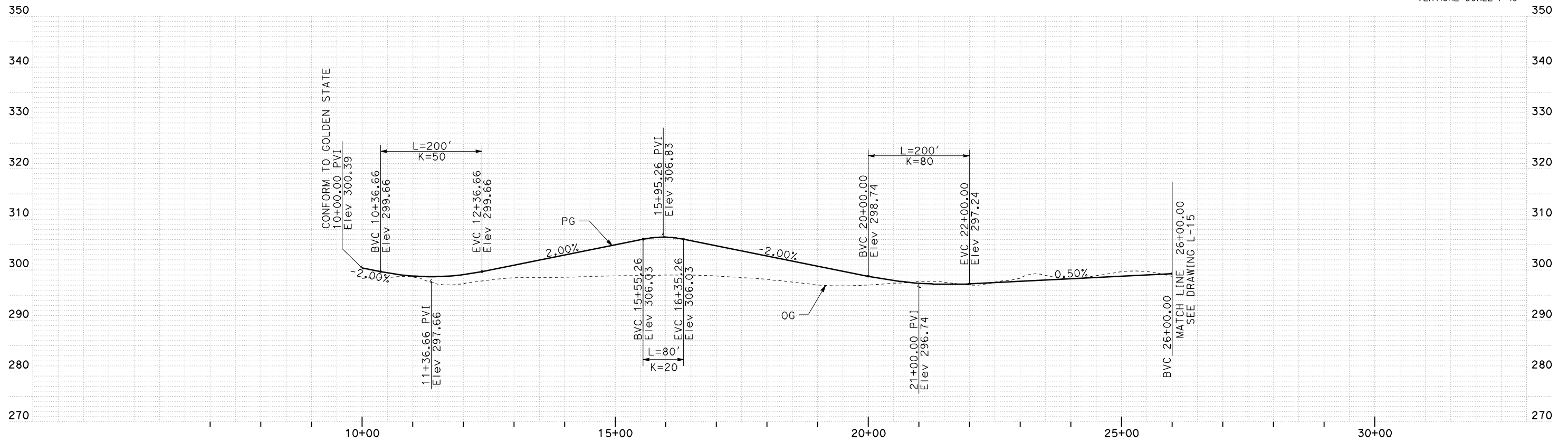
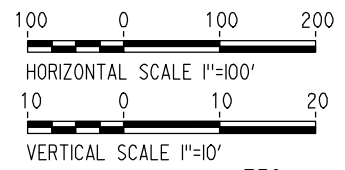
SEE SHEETS L-14 AND L-15 FOR SHAW AVE

☑ 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



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

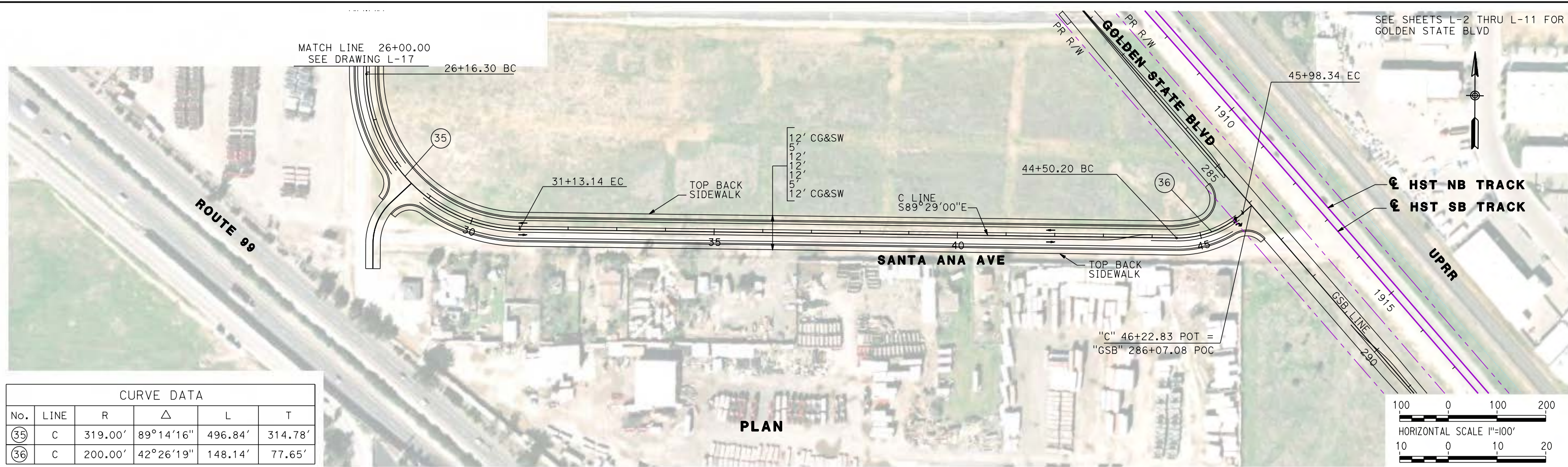
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

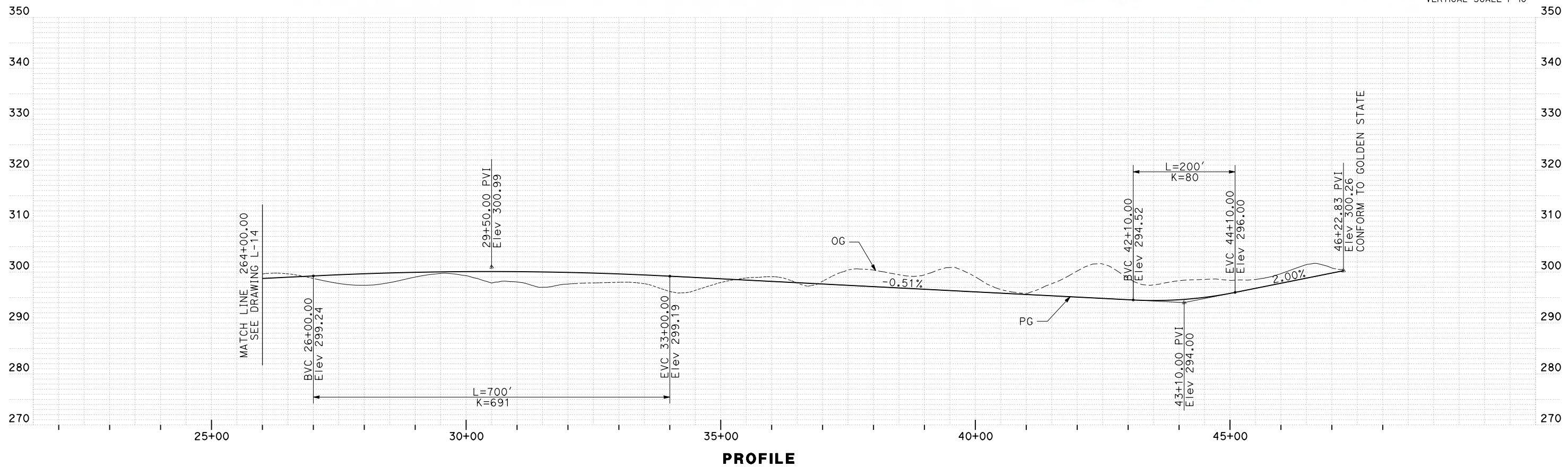


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
CORNELIA AVENUE RE-ALIGNMENT
LAYOUT
"C" 10+00 TO "C" 26+00

CONTRACT NO.
HSR06-007
DRAWING NO.
L-16
SCALE
AS SHOWN
SHEET NO.



CURVE DATA					
No.	LINE	R	Δ	L	T
35	C	319.00'	89°14'16"	496.84'	314.78'
36	C	200.00'	42°26'19"	148.14'	77.65'



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



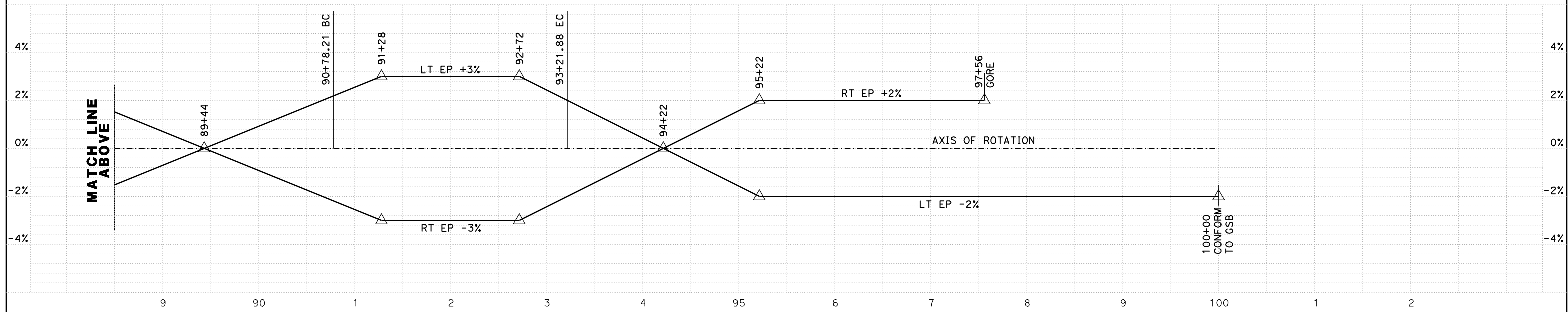
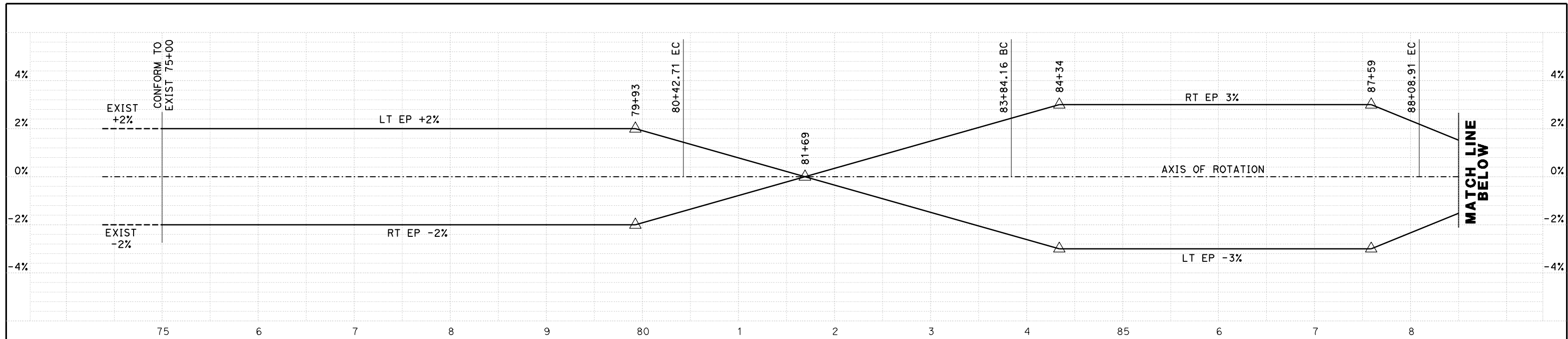
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
SANTA ANA AVENUE RE-ALIGNMENT
LAYOUT
"C" 26+00 TO "C" 46+23

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

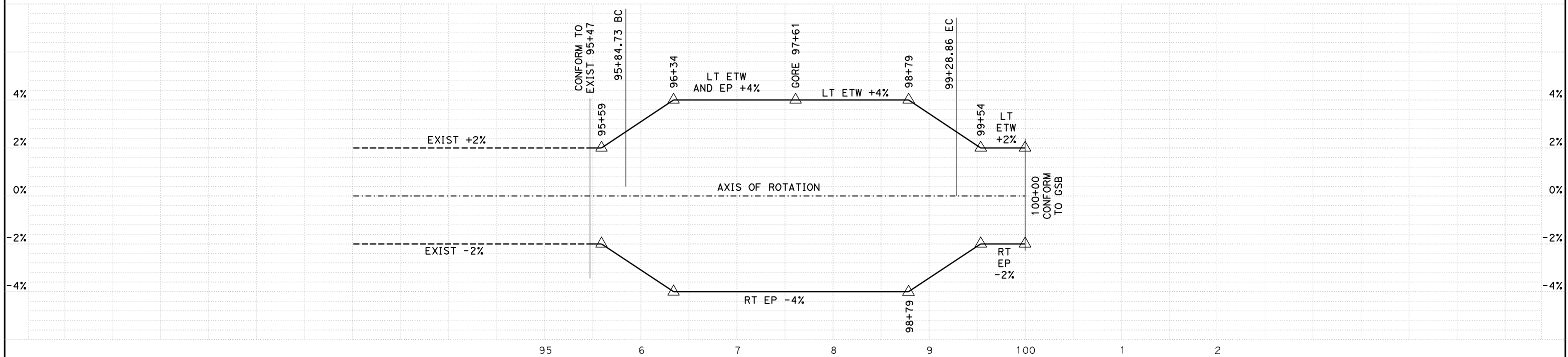
RECORD SET
15% DESIGN
SUBMITTAL

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

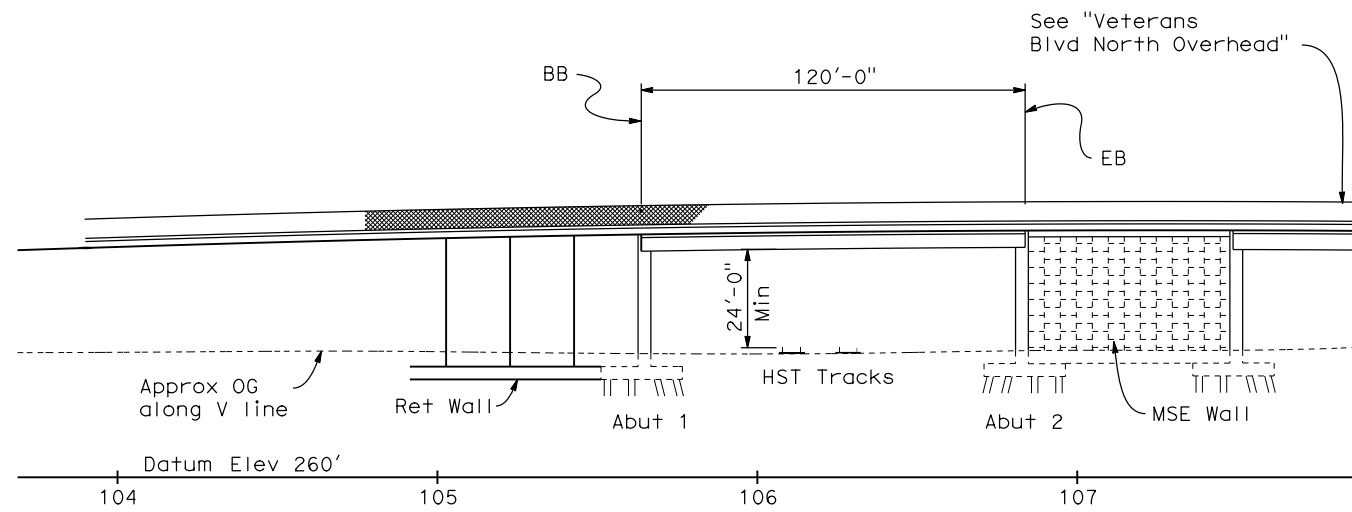
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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

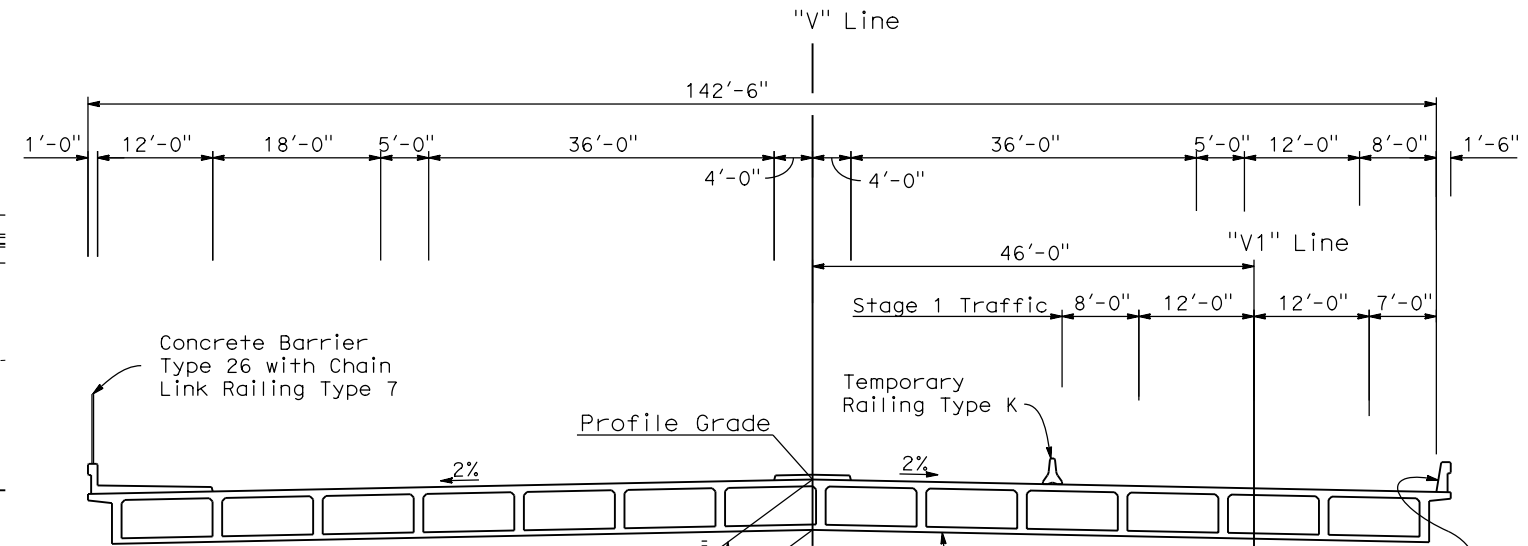


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
SUPERELEVATION DIAGRAM

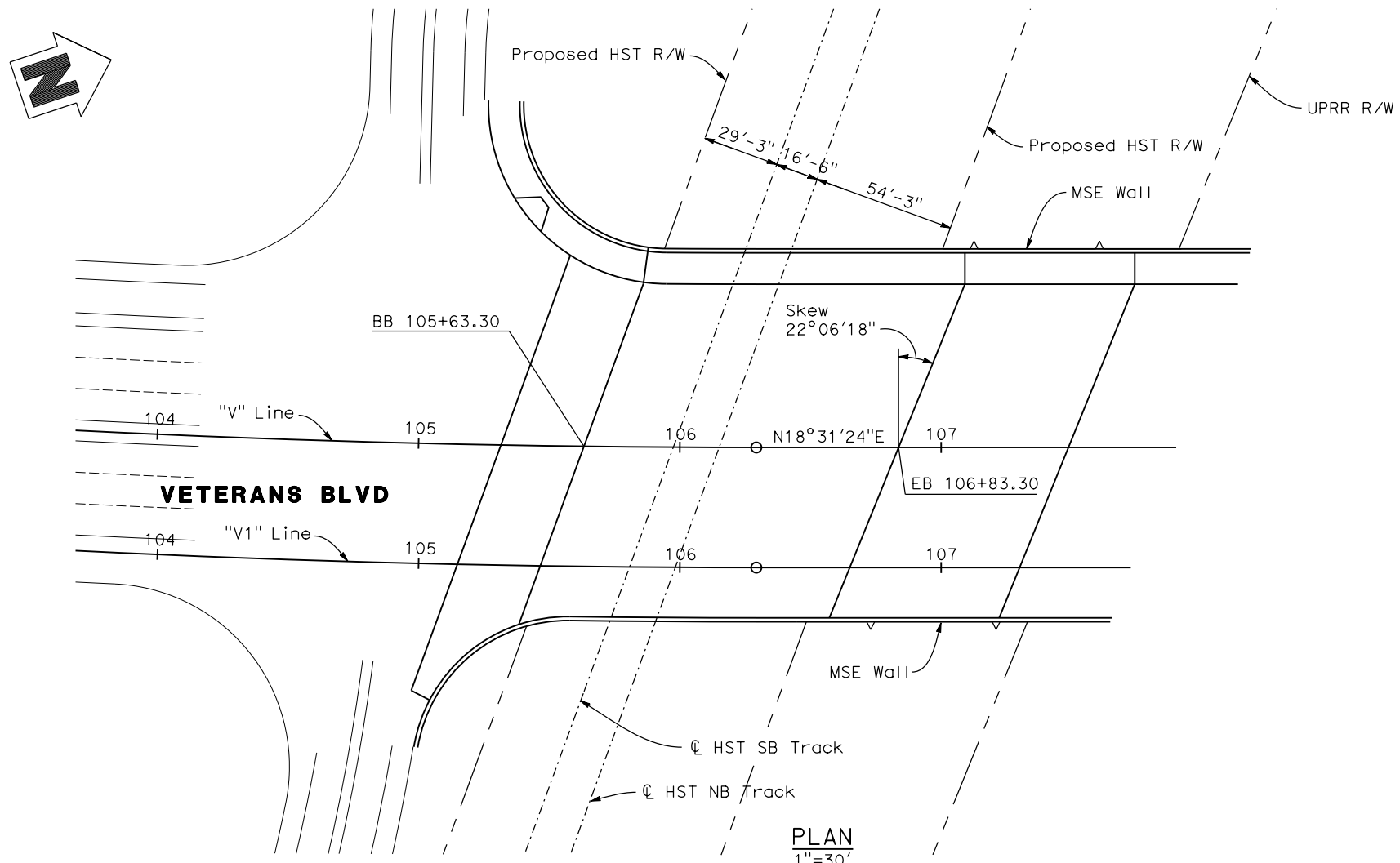
CONTRACT NO.
HSR06-007
 DRAWING NO.
SE-2
 SCALE
 SHEET NO.



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

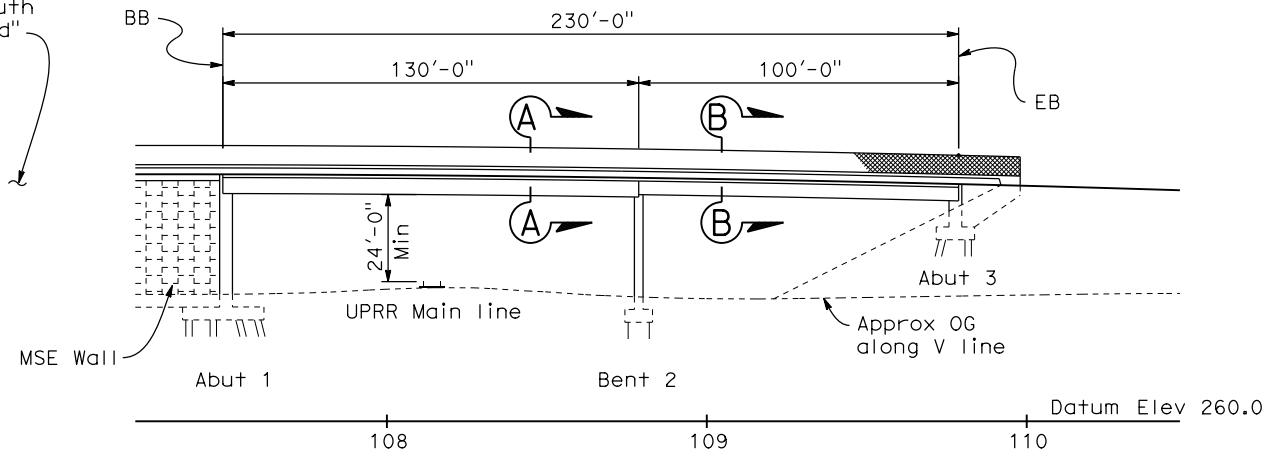


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

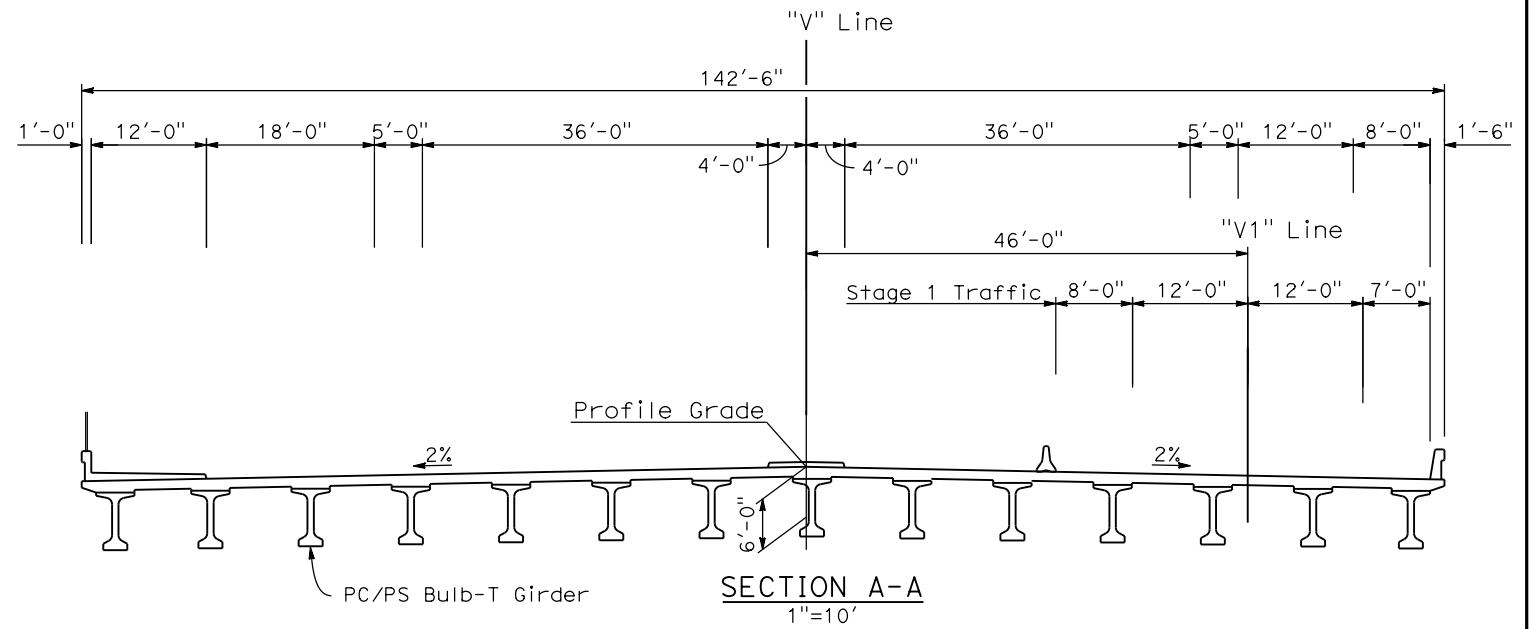
CONTRACT NO.
HSR006-007
DRAWING NO.
BR-1
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03-28-APR-2011

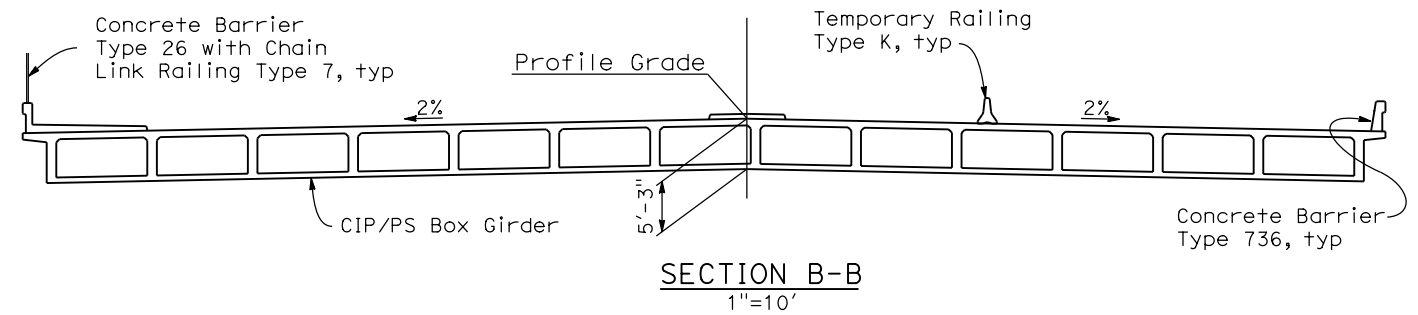
See "Veterans Blvd South Overhead"



ELEVATION
1"=30'

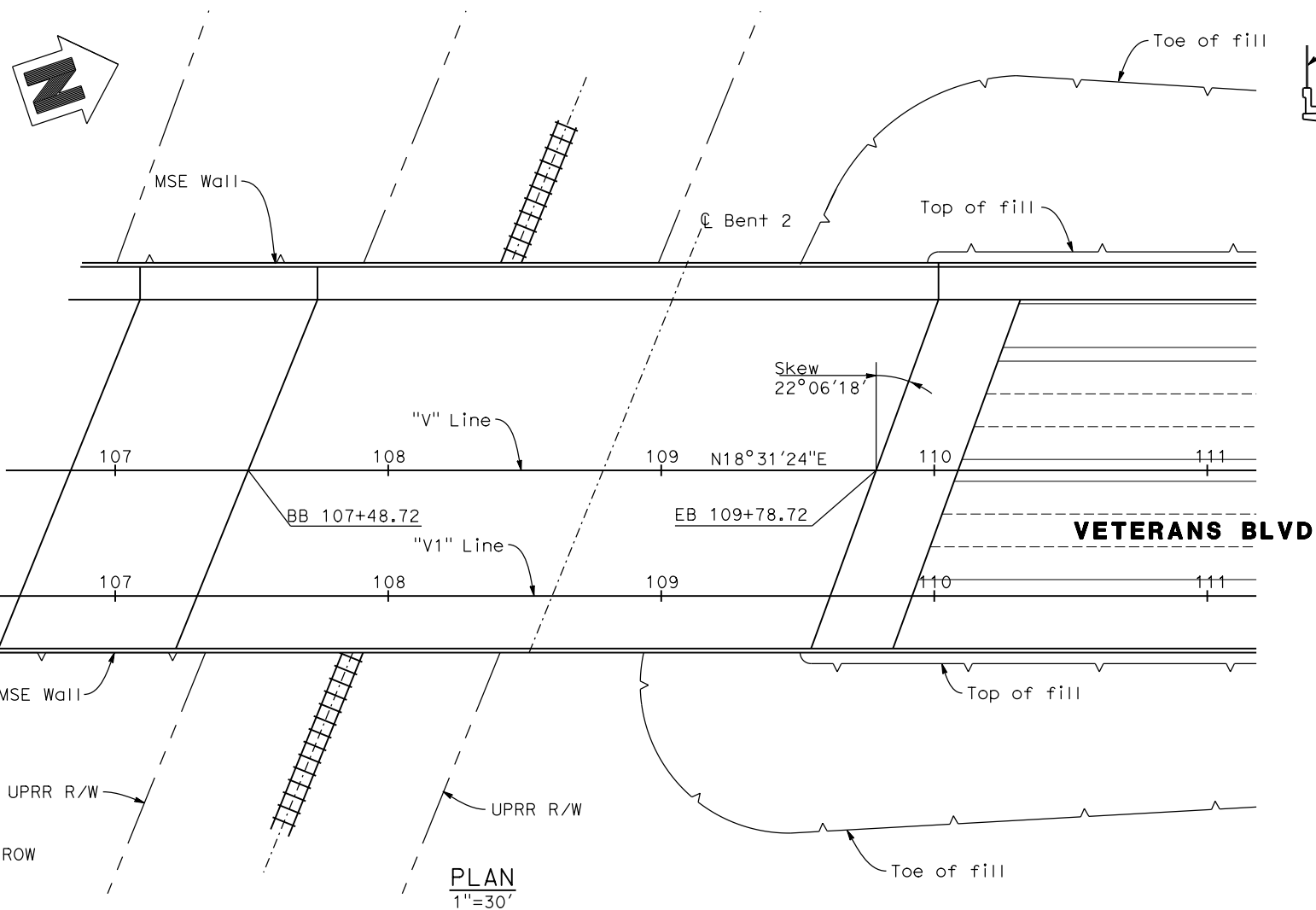


SECTION A-A
1"=10'



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

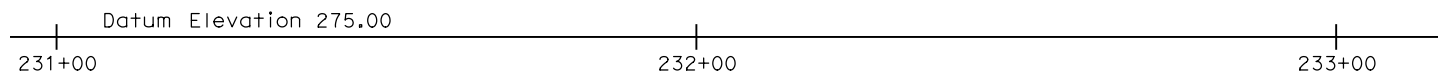
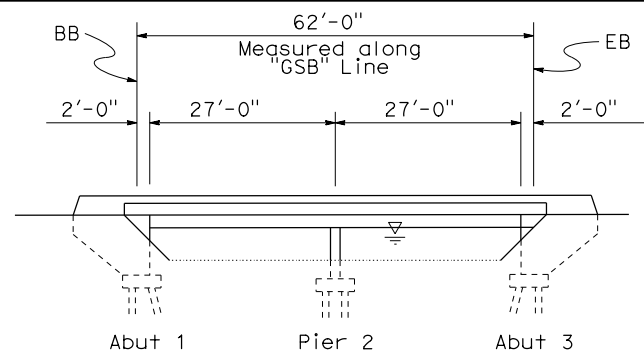
NOT FOR
CONSTRUCTION



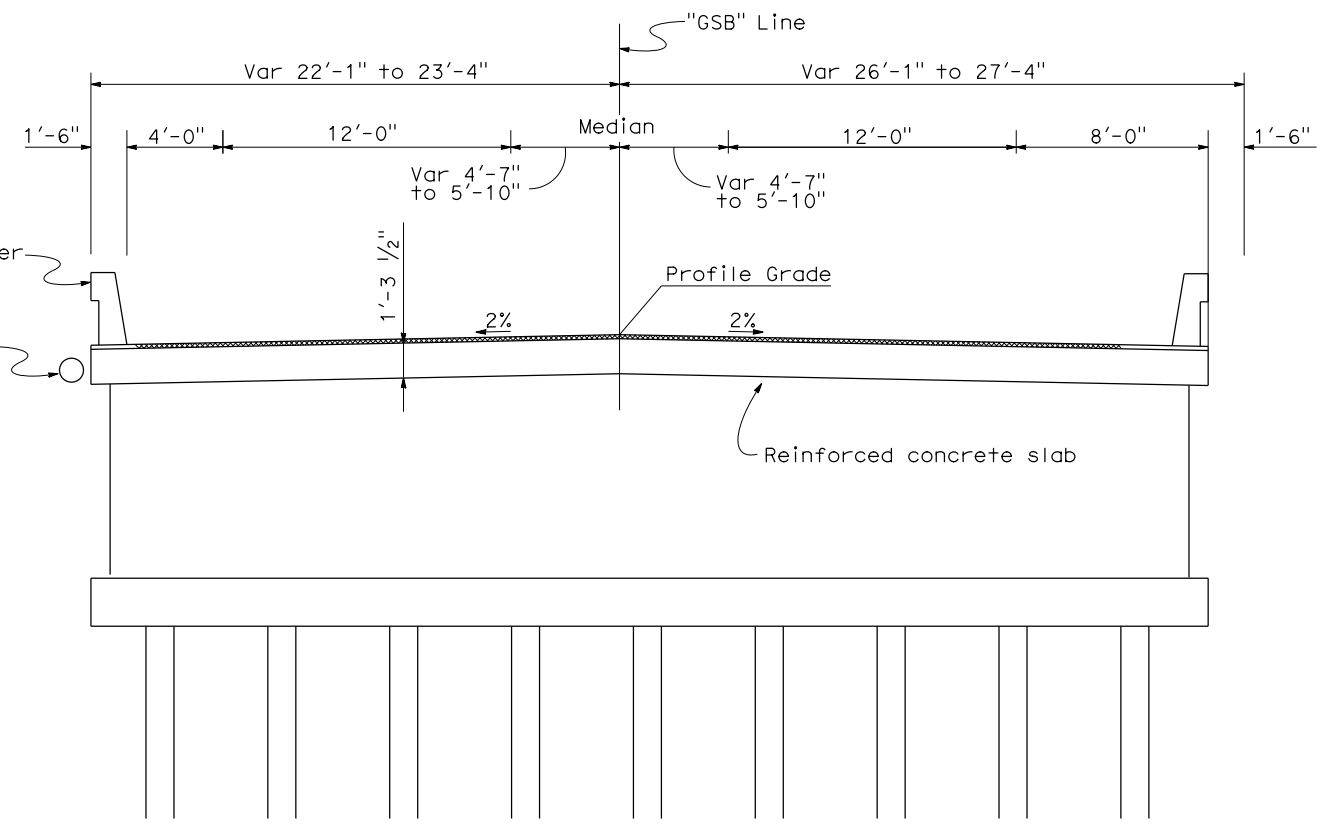
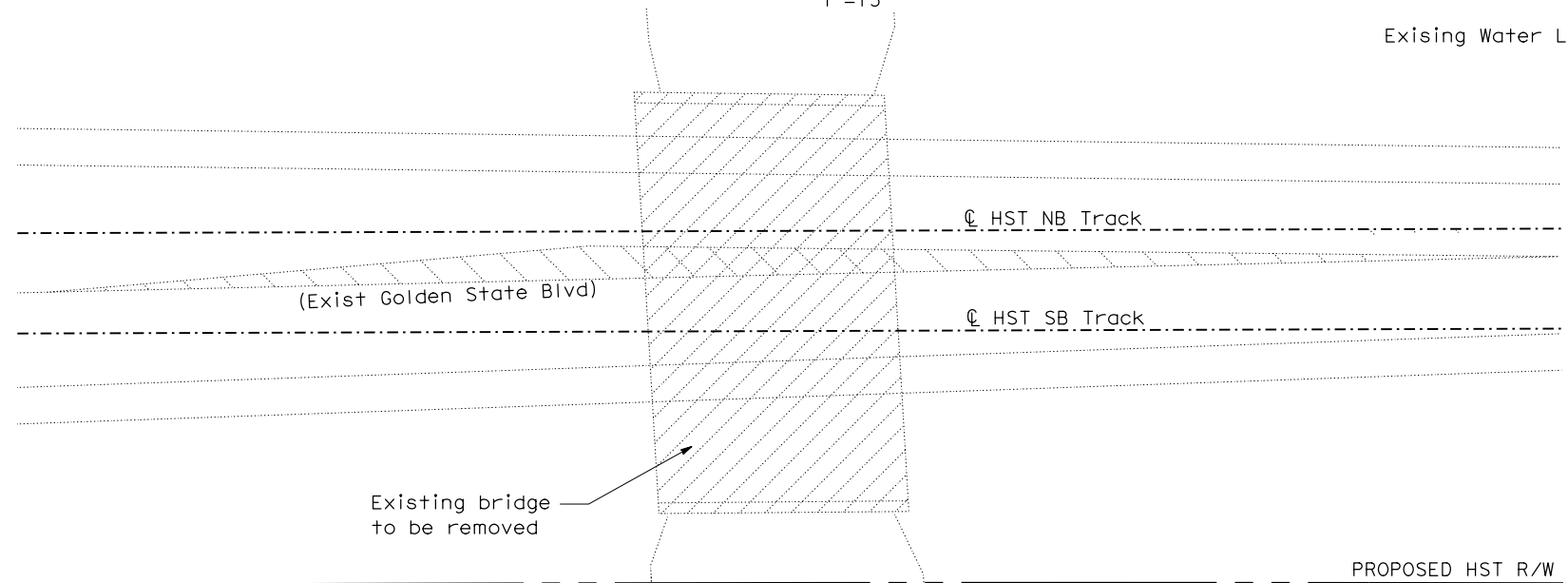
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

CONTRACT NO.
HSR006-007
DRAWING NO.
BR-2
SCALE
AS SHOWN
SHEET NO.

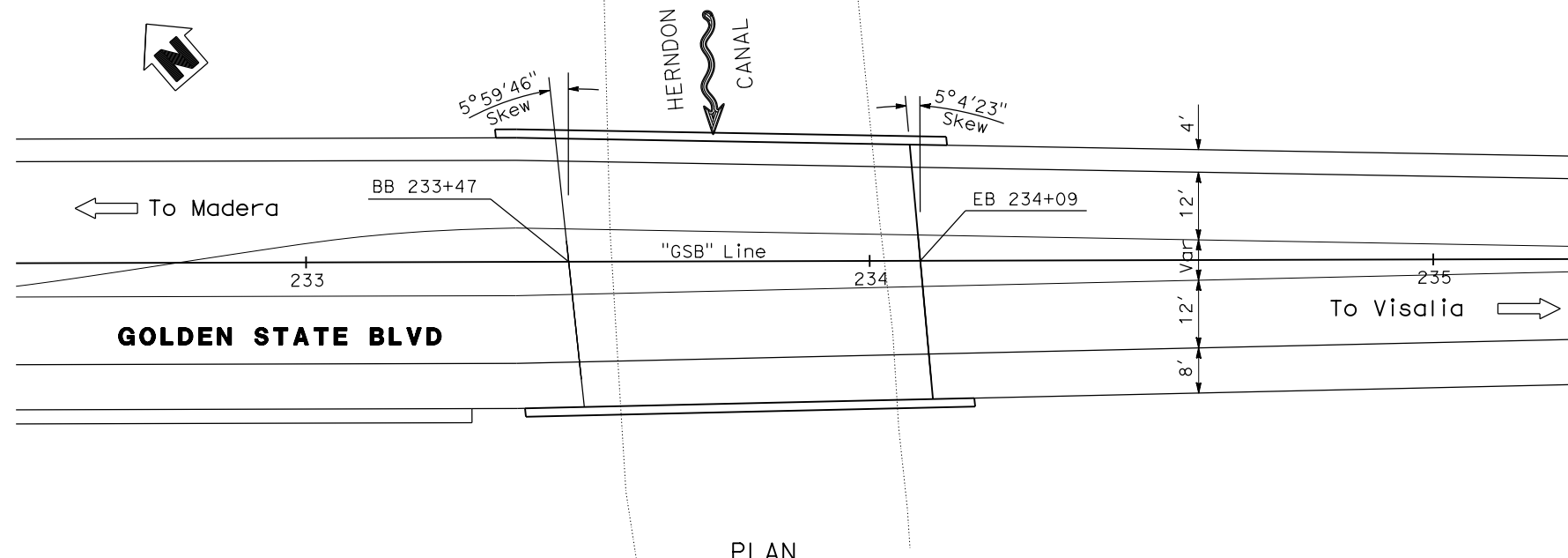
DATE PLOTTED: 23 APR 2011



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

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

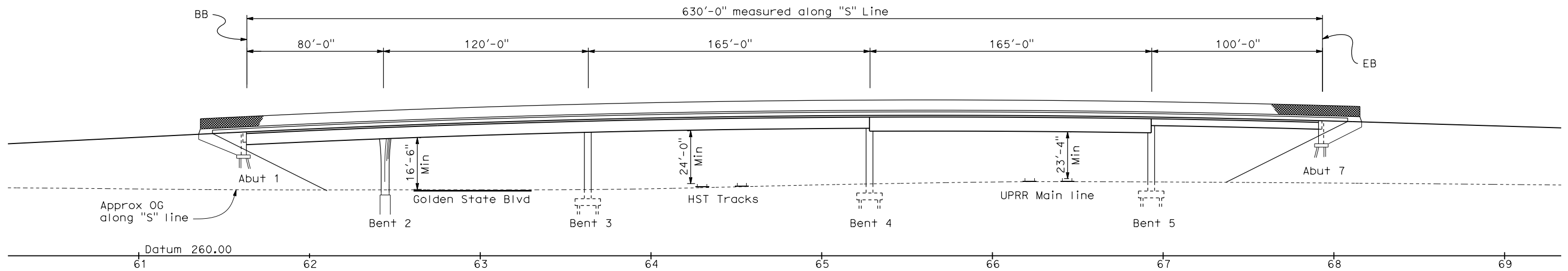
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

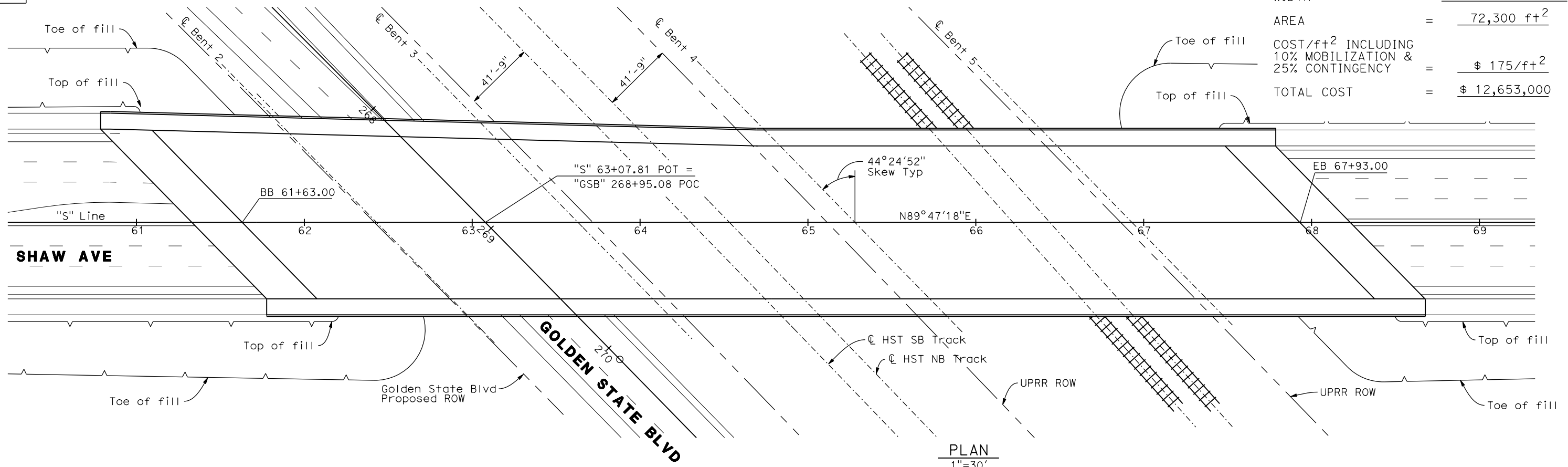
CONTRACT NO.
HSR006-007
DRAWING NO.
BR-3
SCALE
AS SHOWN
SHEET NO.

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

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

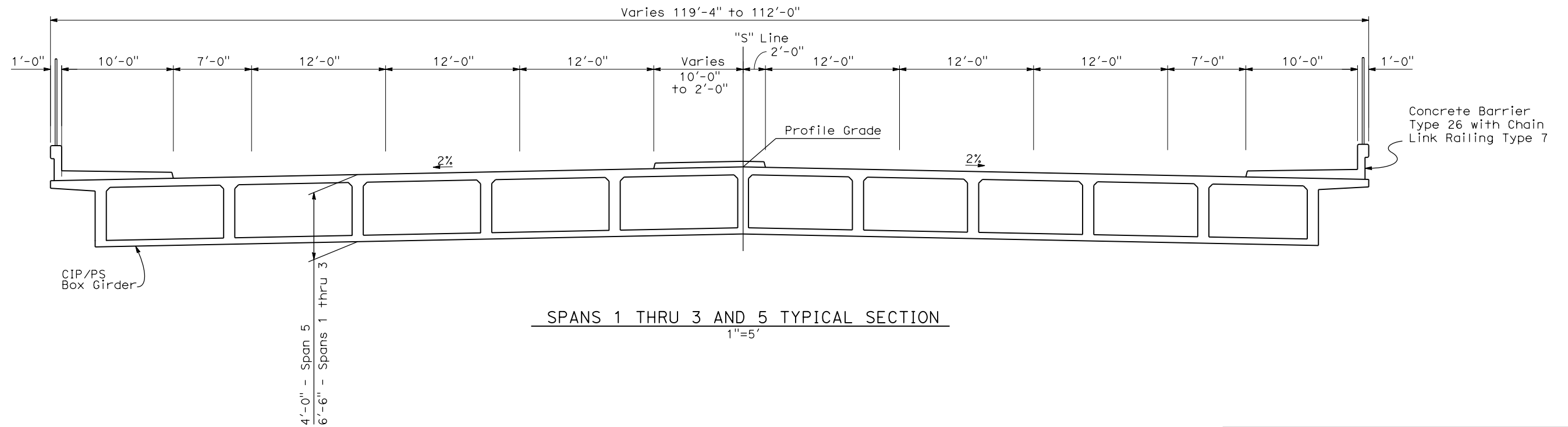
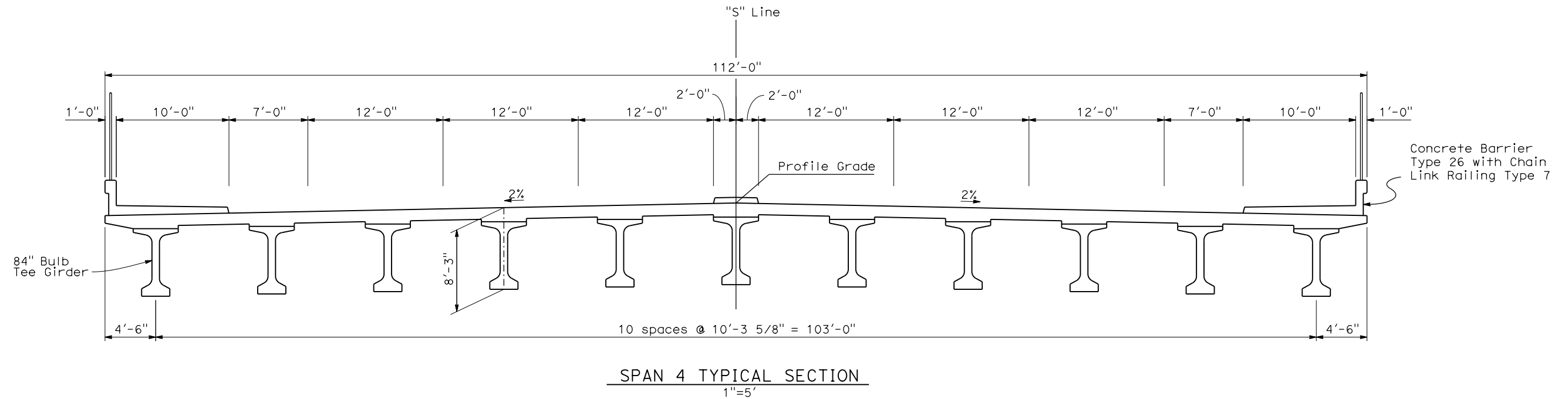
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
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

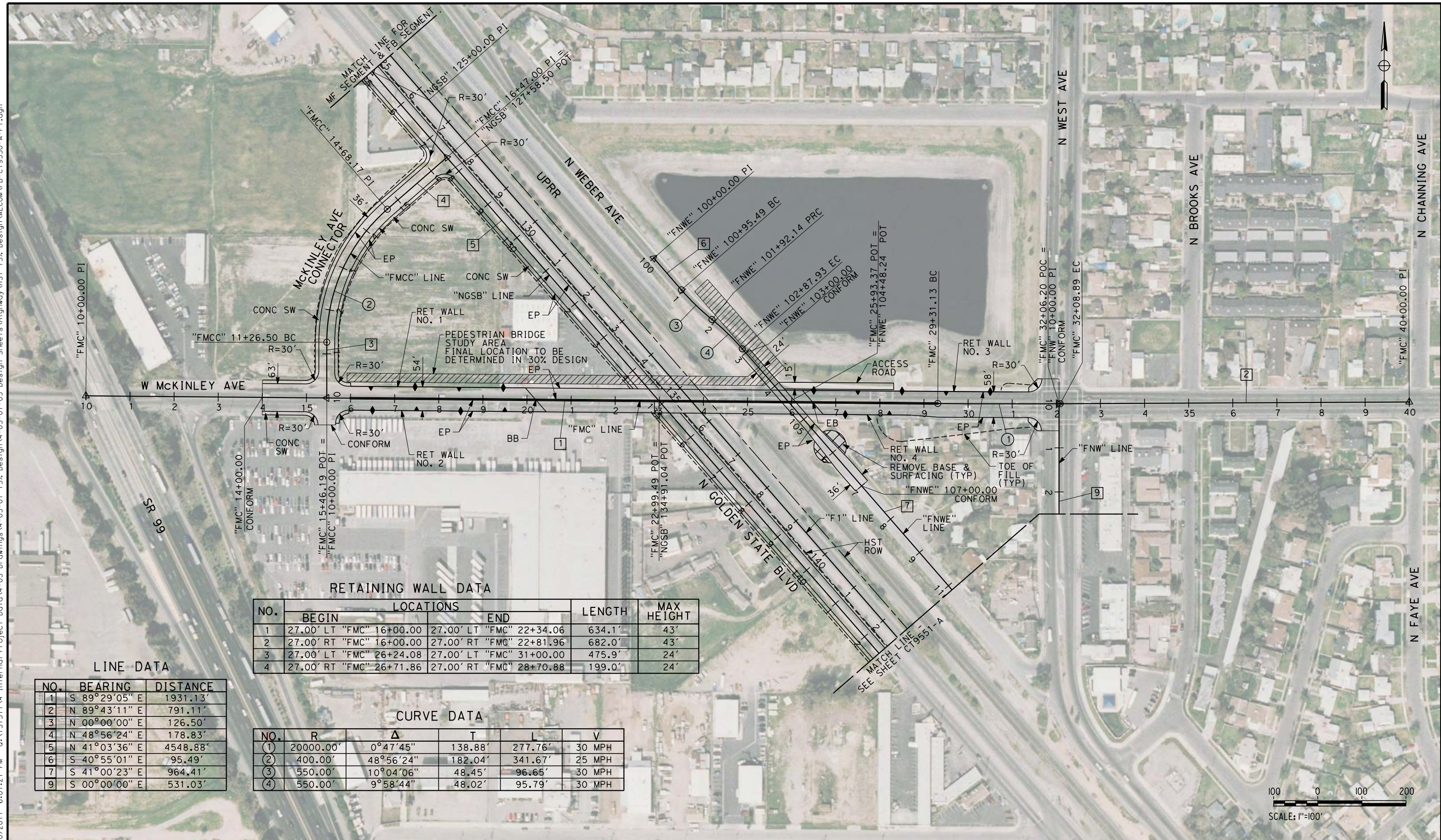


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
GOLDEN STATE BOULEVARD RE-ALIGNMENT
ADVANCE PLANNING STUDY

CONTRACT NO.	HSR006-007
DRAWING NO.	BR-5
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 23 APR 2011 10:58:53 AM

eron_sudhausen 7/20/2011 6:07:21 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 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

eron_sudhausen 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

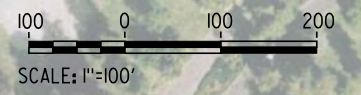


LINE DATA

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**

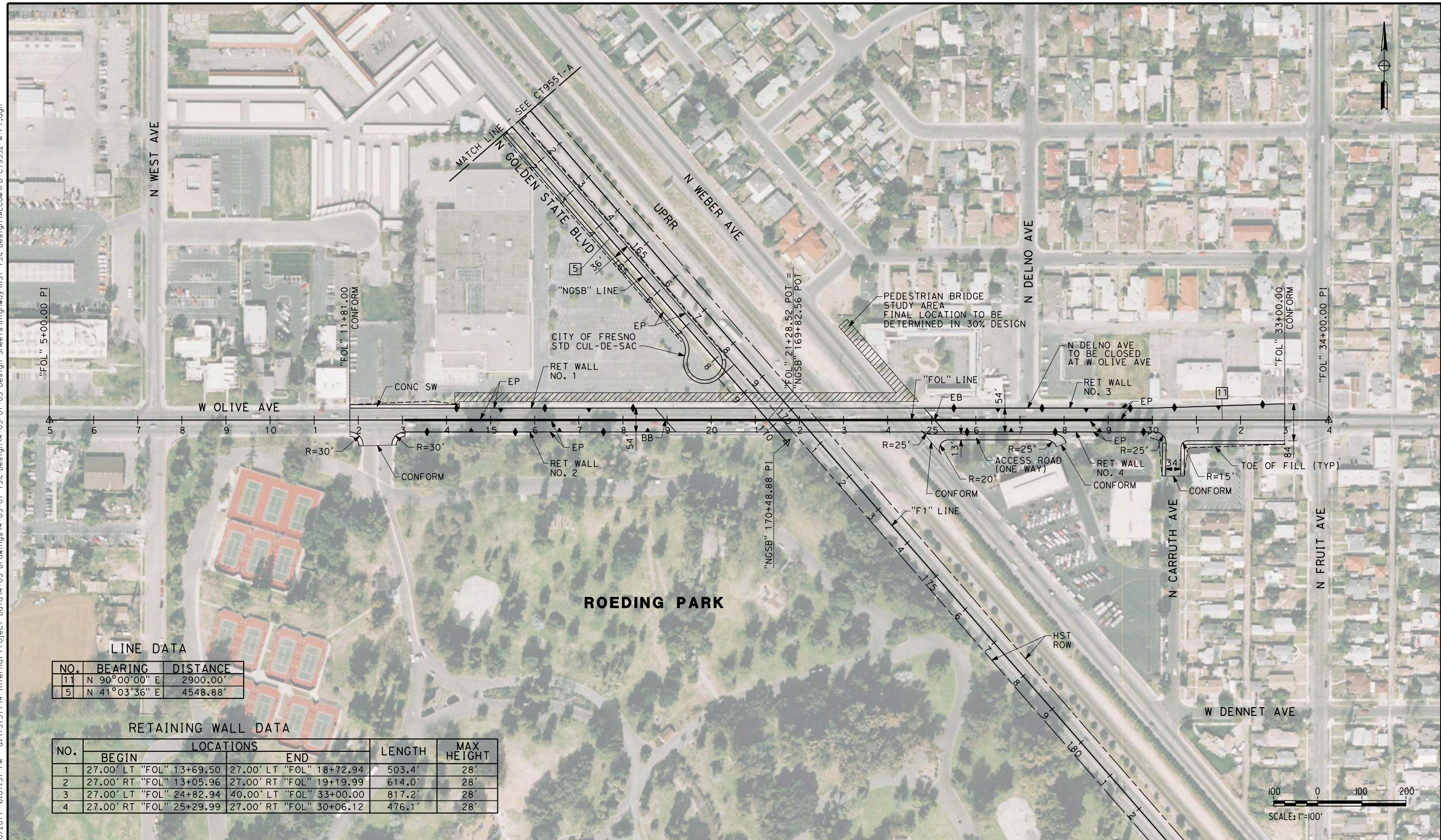
**NOT FOR
CONSTRUCTION**



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**

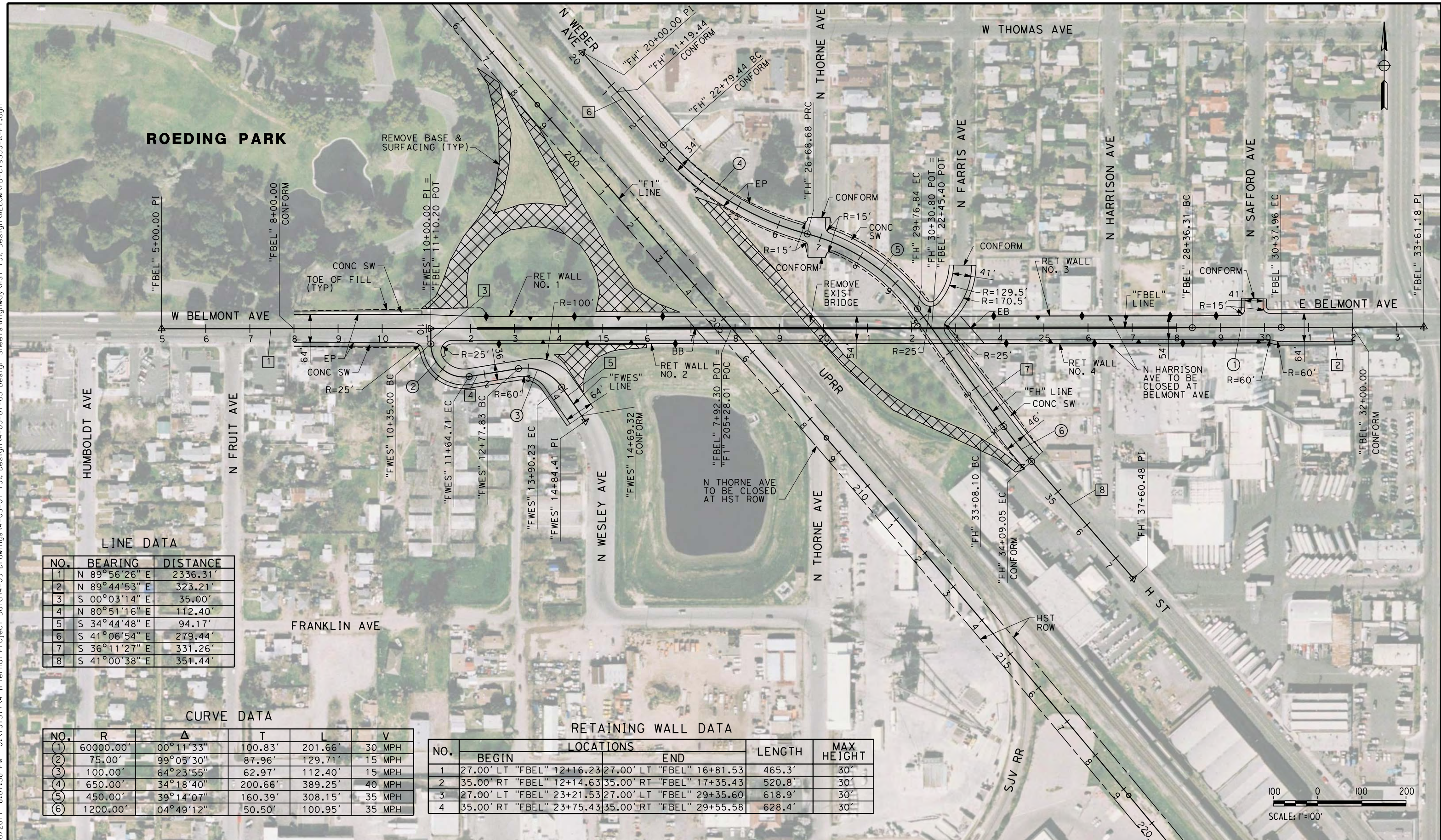
**NOT FOR
CONSTRUCTION**



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

7/20/2011 6:07:36 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 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

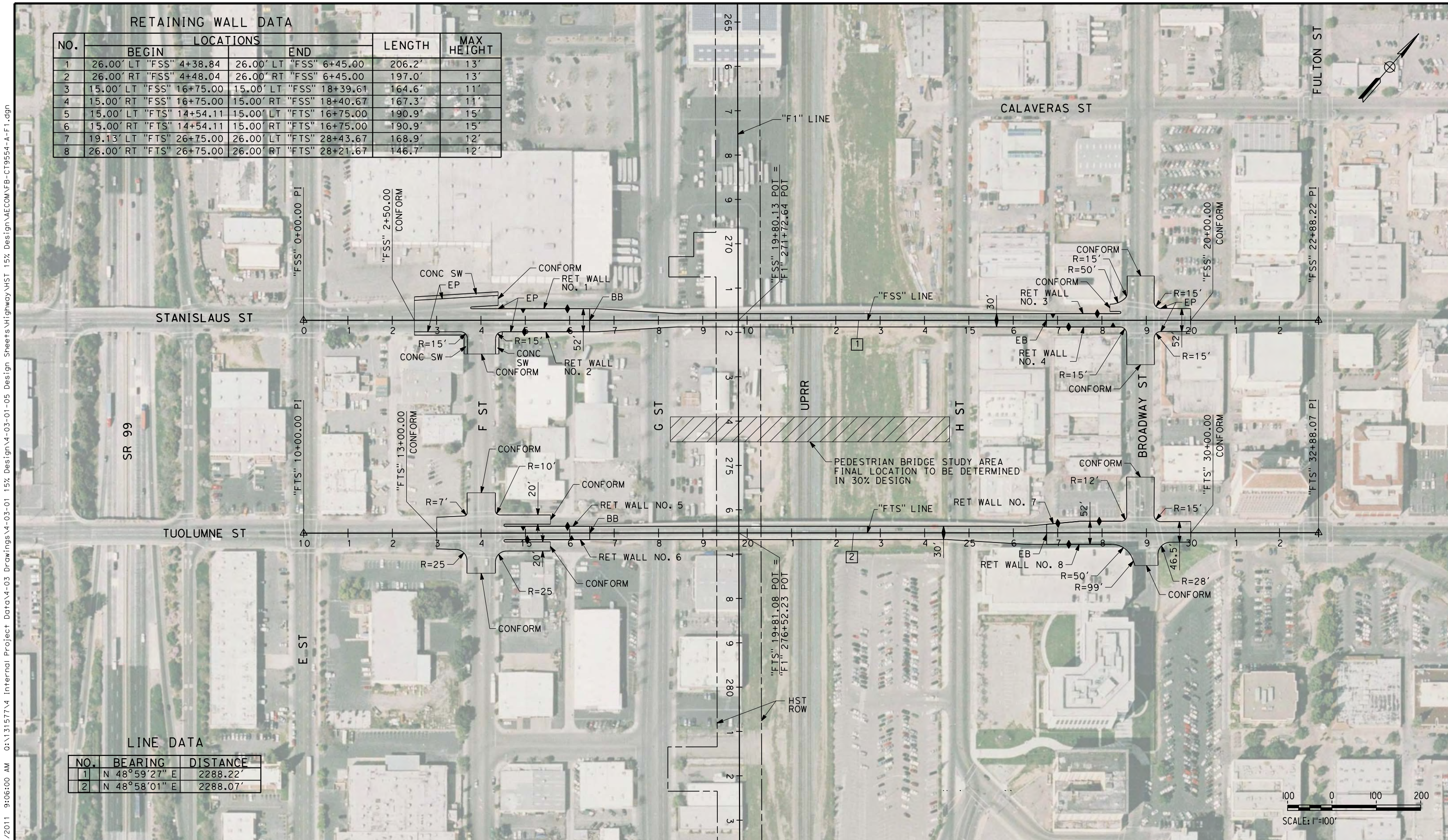
RETAINING WALL DATA

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

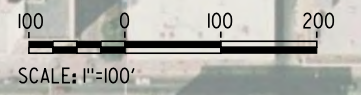
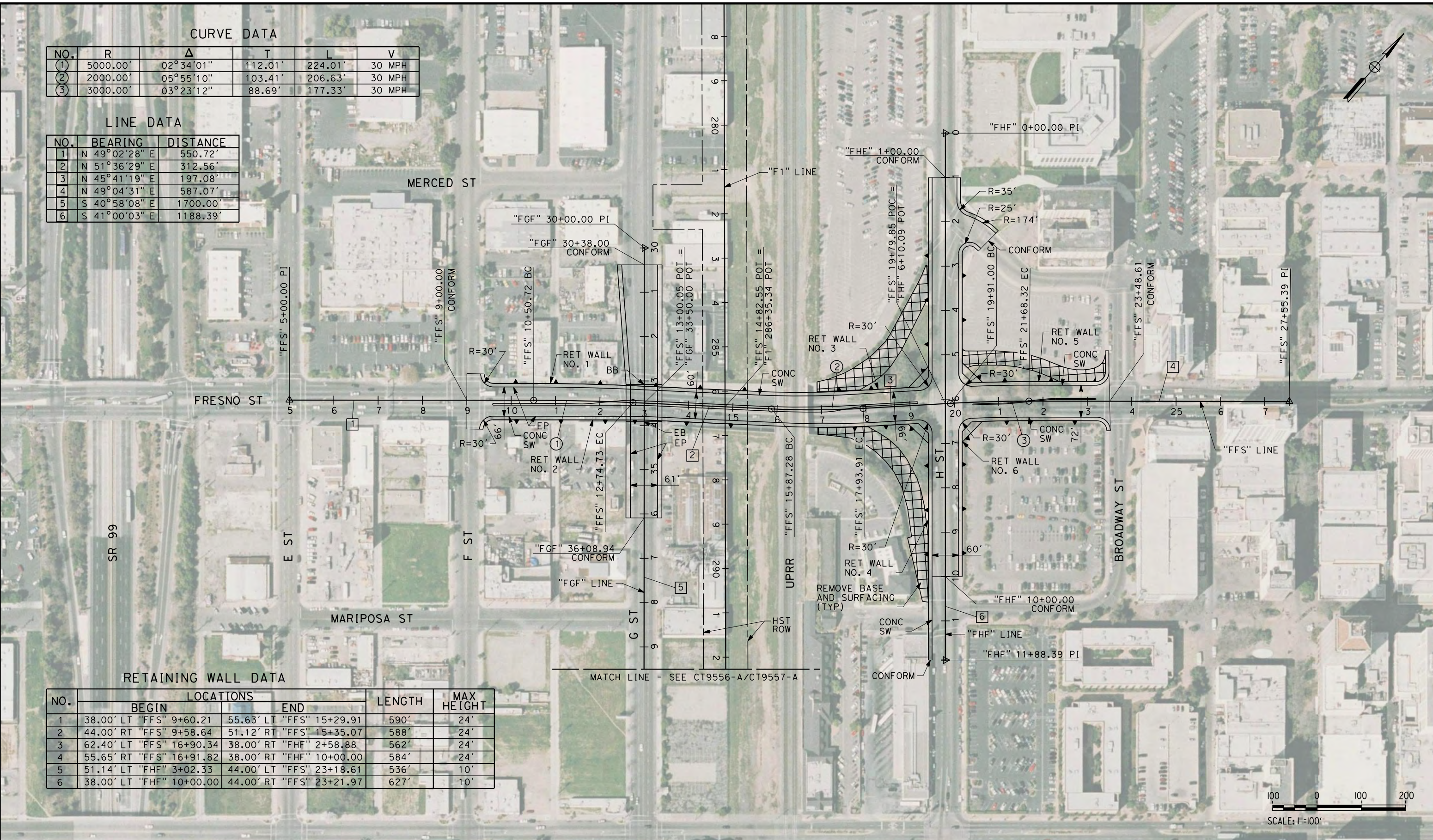
LINE DATA

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'

eron_sudhausen 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'

7/20/2011 6:07:53 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\AECOM\FB-CT9556-A-F1.dgn



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'

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

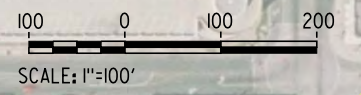
**RECORD SET 15%
DESIGN SUBMISSION**

**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

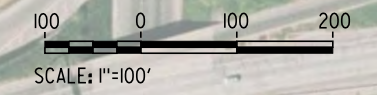
LINE DATA

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
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
J. MONG
 IN CHARGE
A. LUFT
 DATE
05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



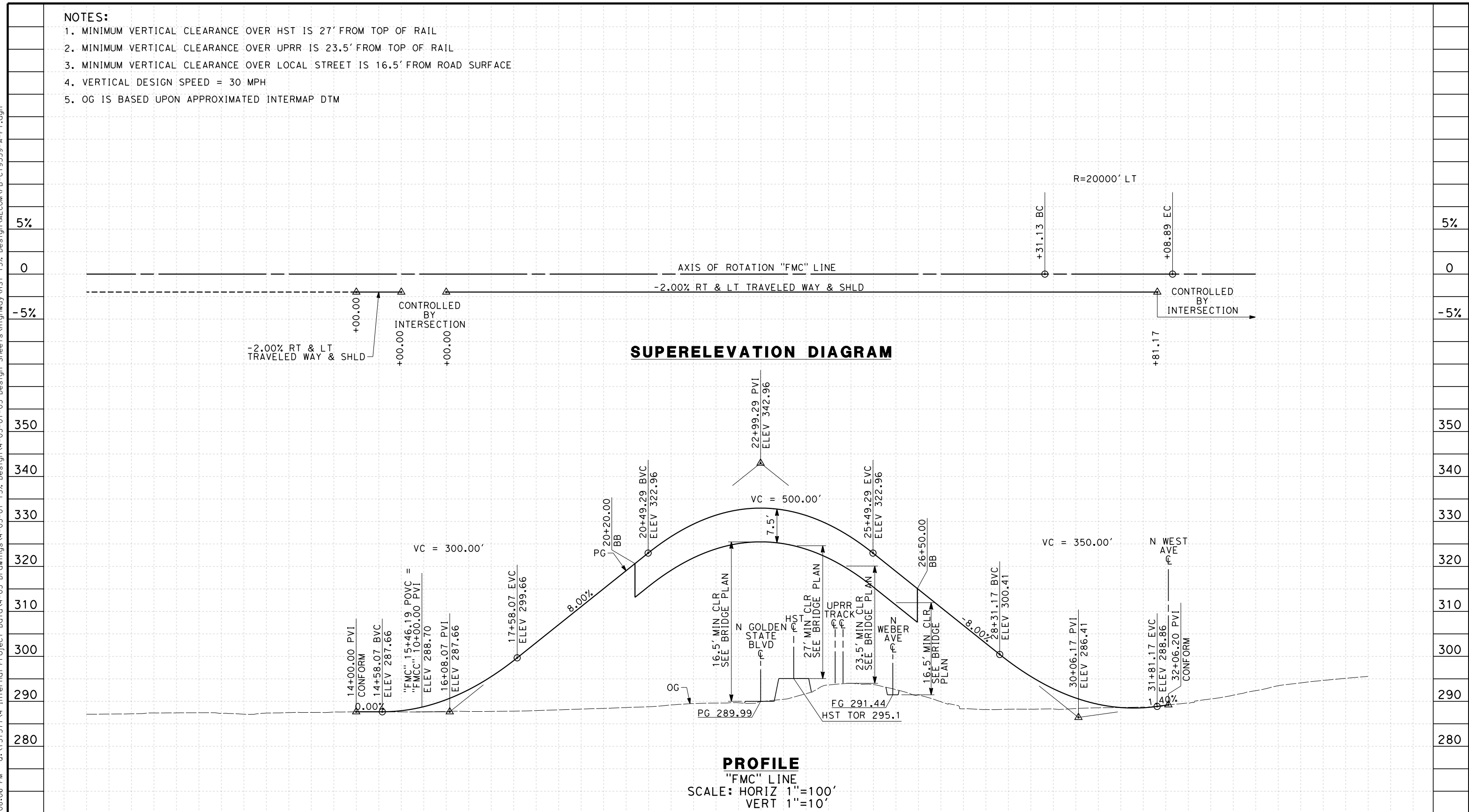
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEPARATION LAYOUT
 VENTURA ST

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**



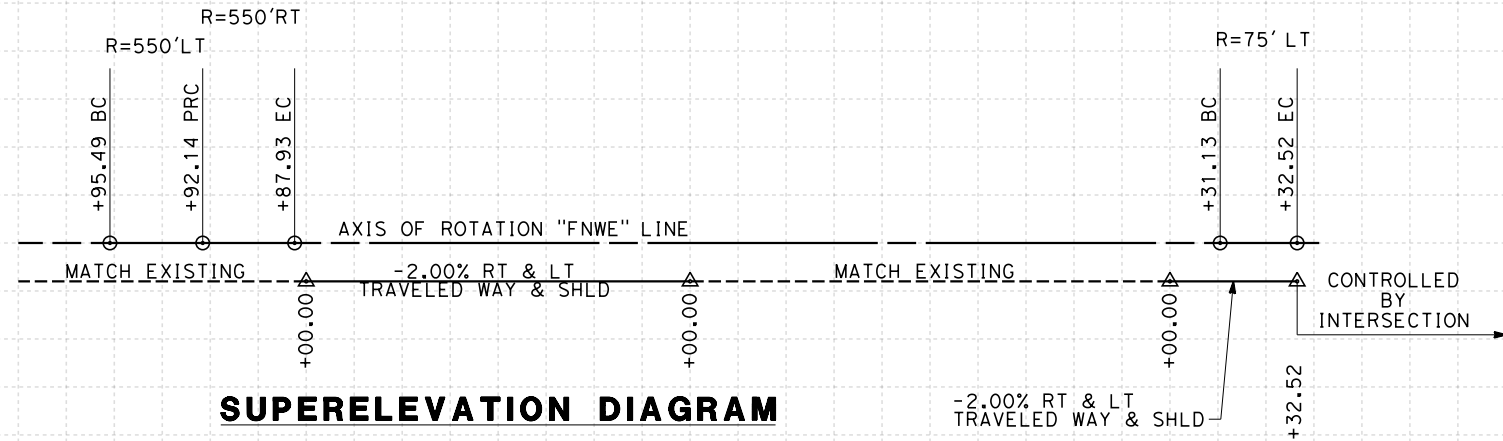
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 W MCKINLEY AVE

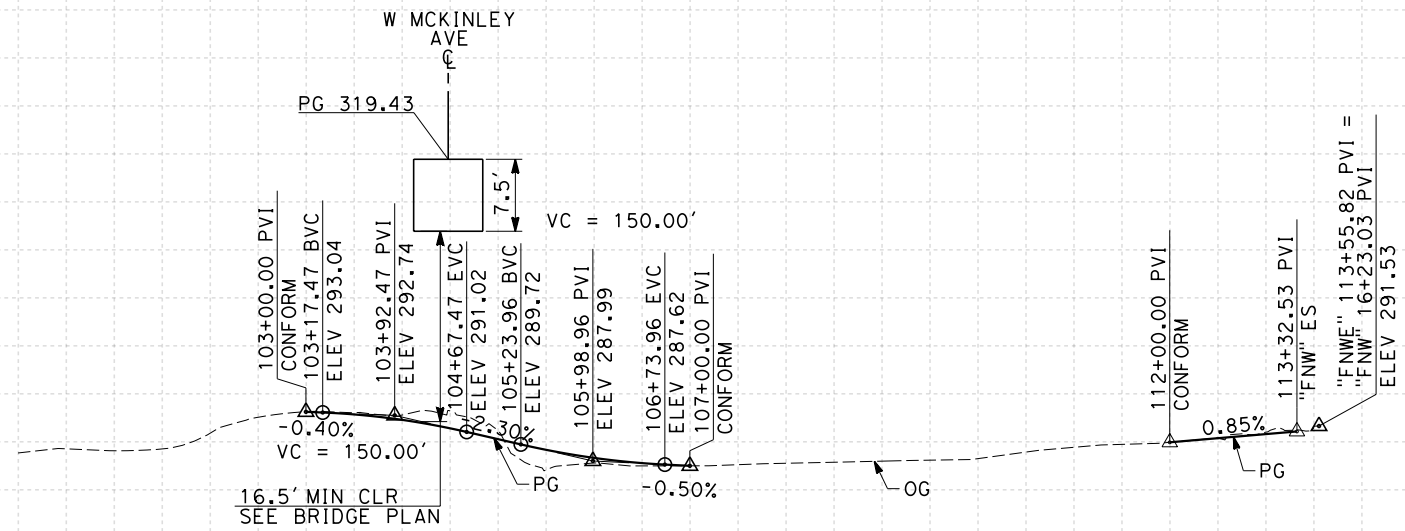
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT9559-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

NOTES:

1. 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**

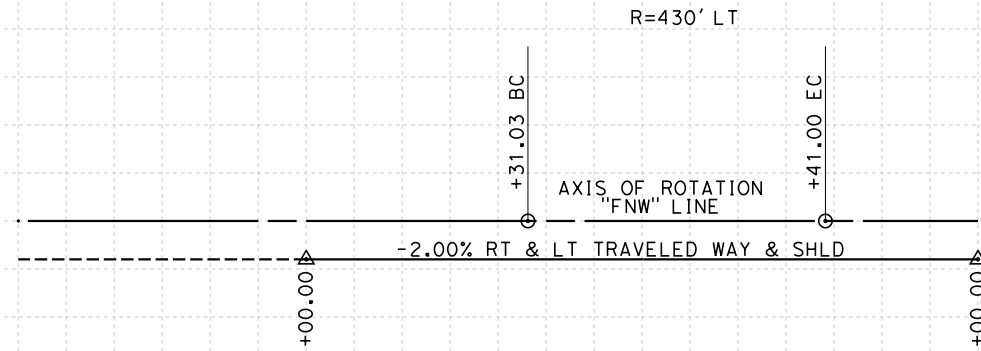


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
N WEBER AVE

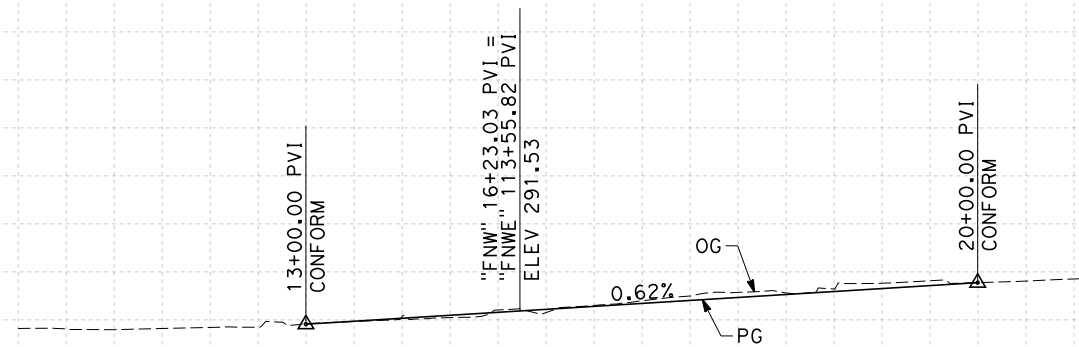
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9561-A
SCALE
AS SHOWN
SHEET NO.
OF

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

"F'NW" 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**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
N WEST AVE

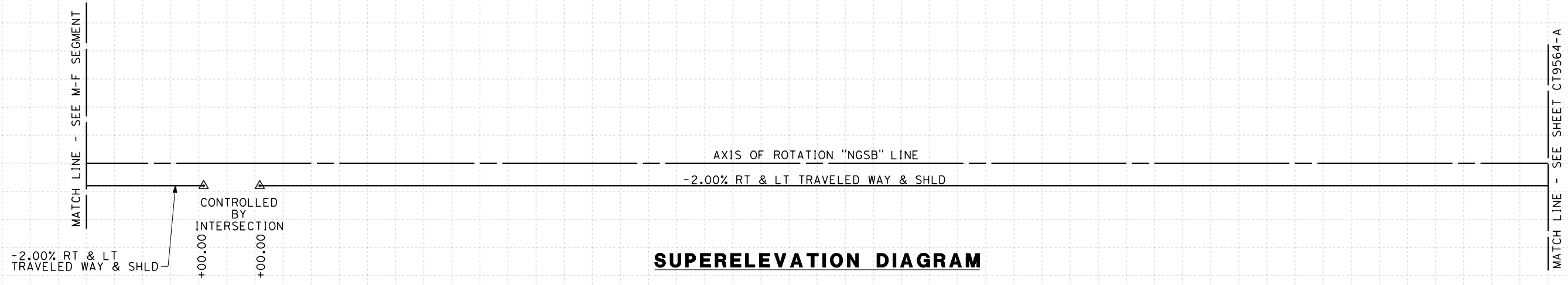
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9562-A
SCALE
AS SHOWN
SHEET NO.
OF

7/20/2011 6:08:11 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design Sheets\Highway\HST 15% Design\AECOM\FB-CT9562-A-F1.dgn

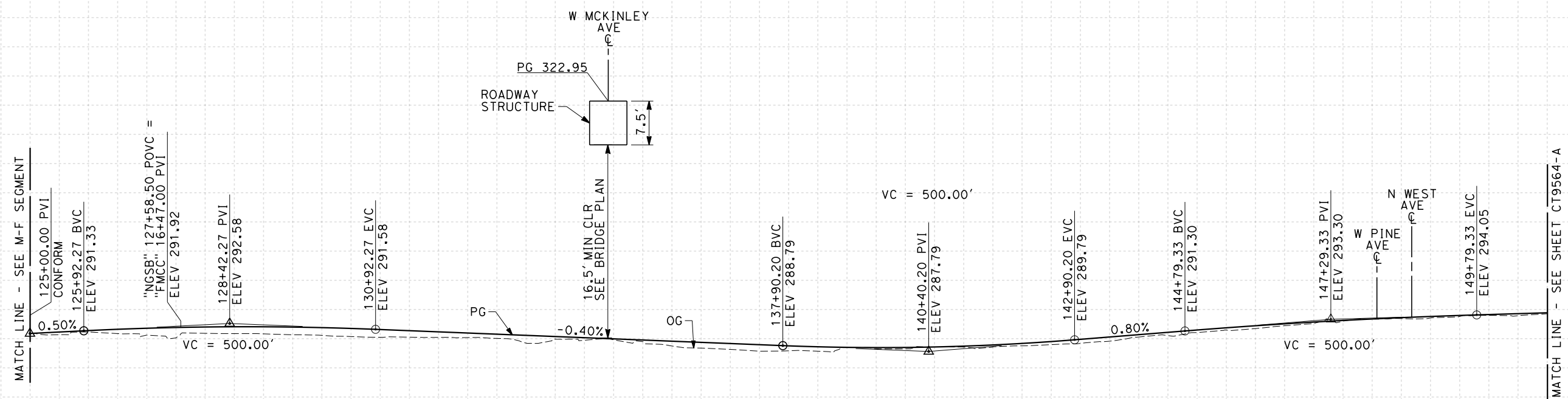
NOTES:

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

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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**

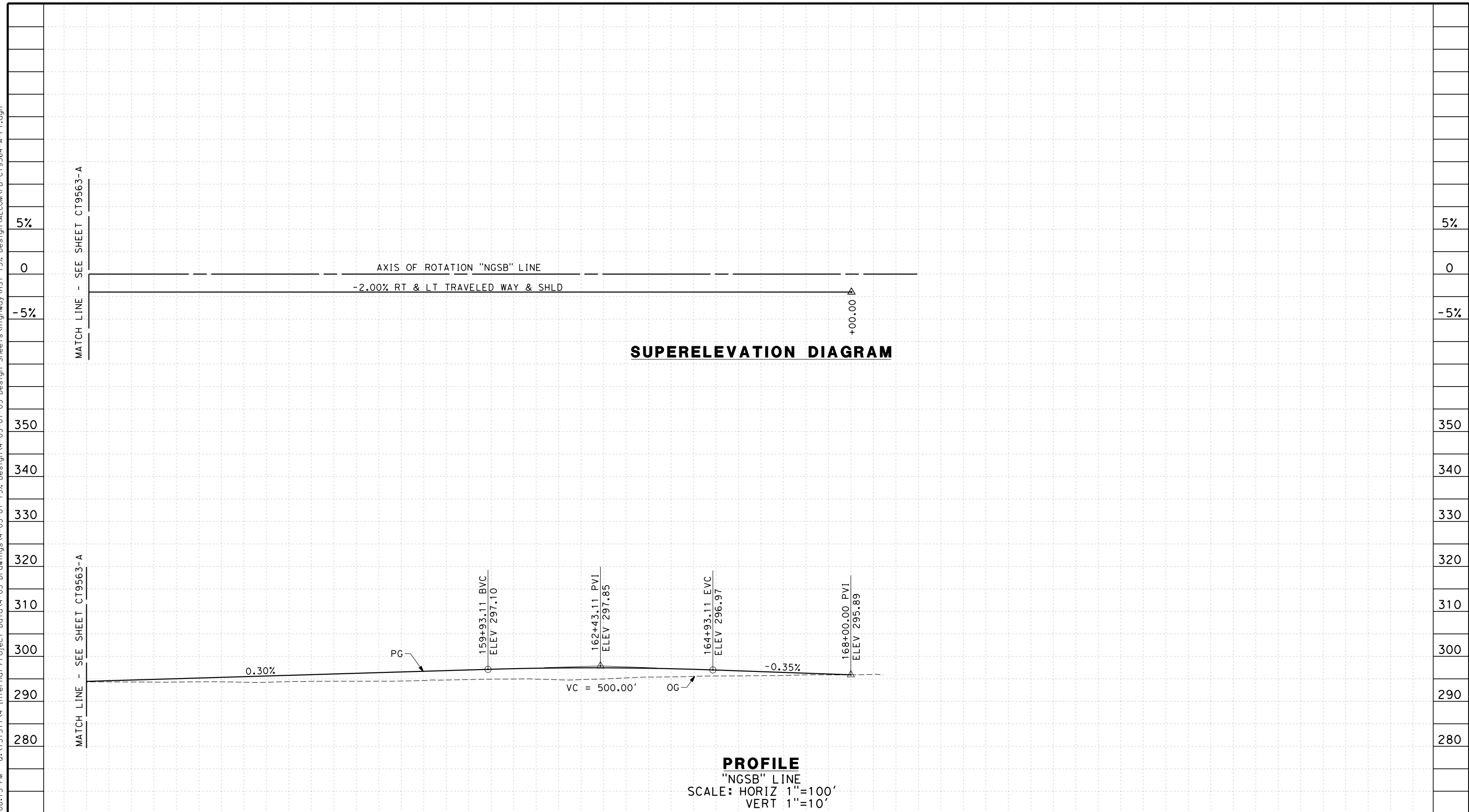
**NOT FOR
 CONSTRUCTION**



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 ###

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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**

**NOT FOR
CONSTRUCTION**



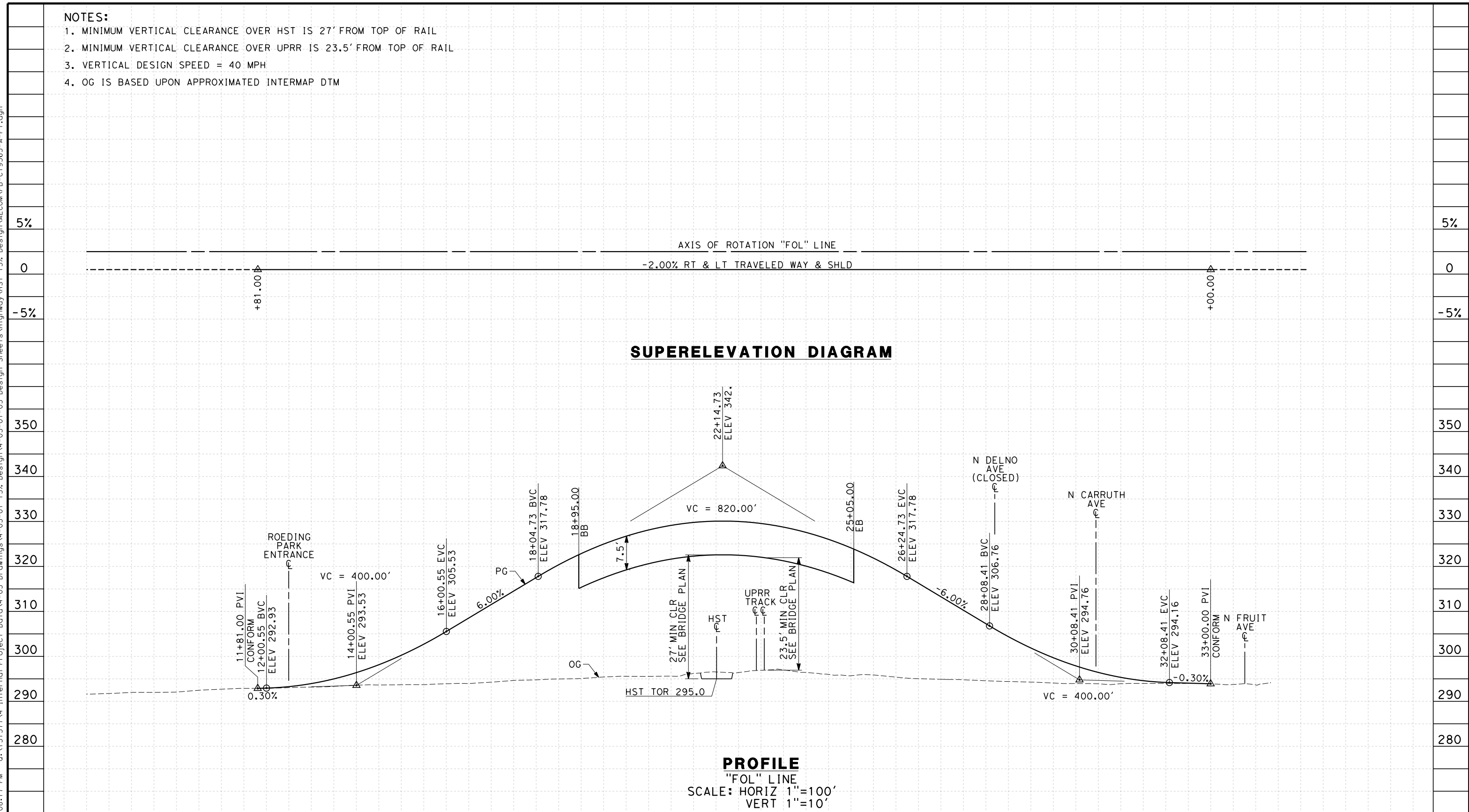
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 N GOLDEN STATE BLVD

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



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**

**NOT FOR
 CONSTRUCTION**



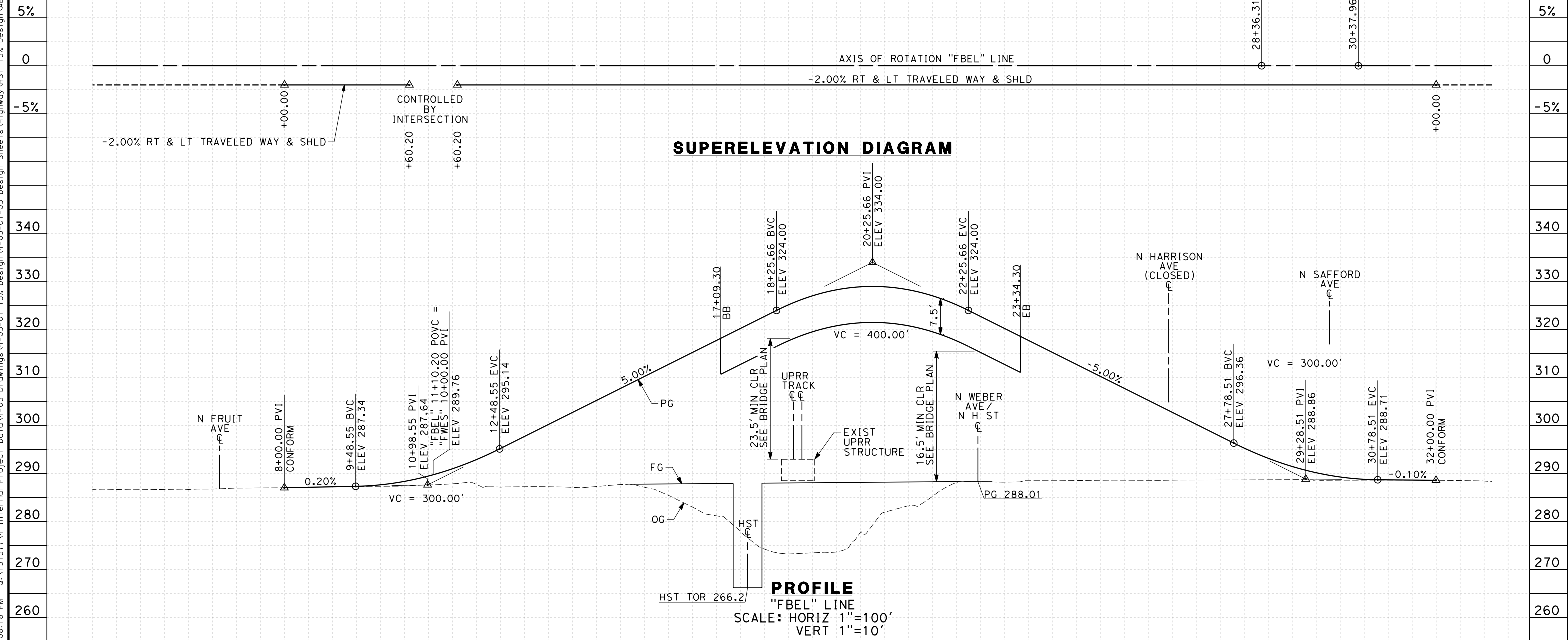
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 W OLIVE AVE

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**

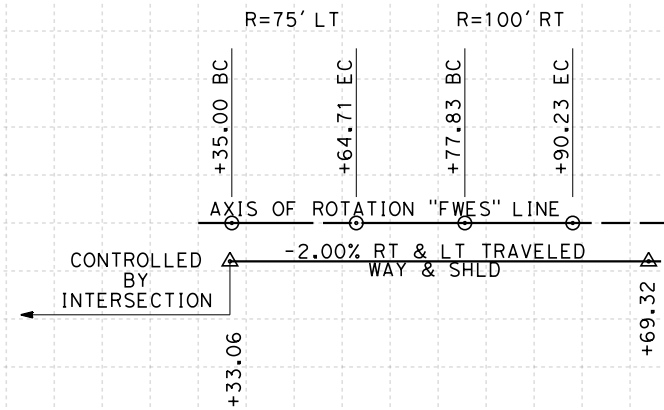
**NOT FOR
 CONSTRUCTION**



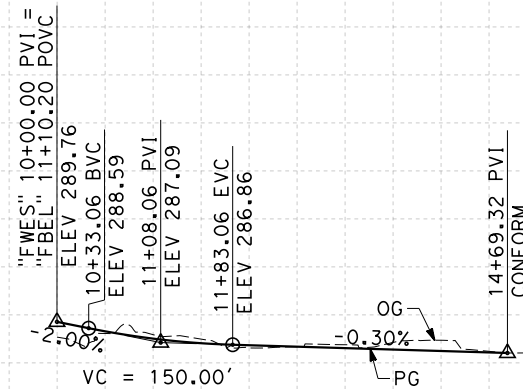
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 BELMONT AVE

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

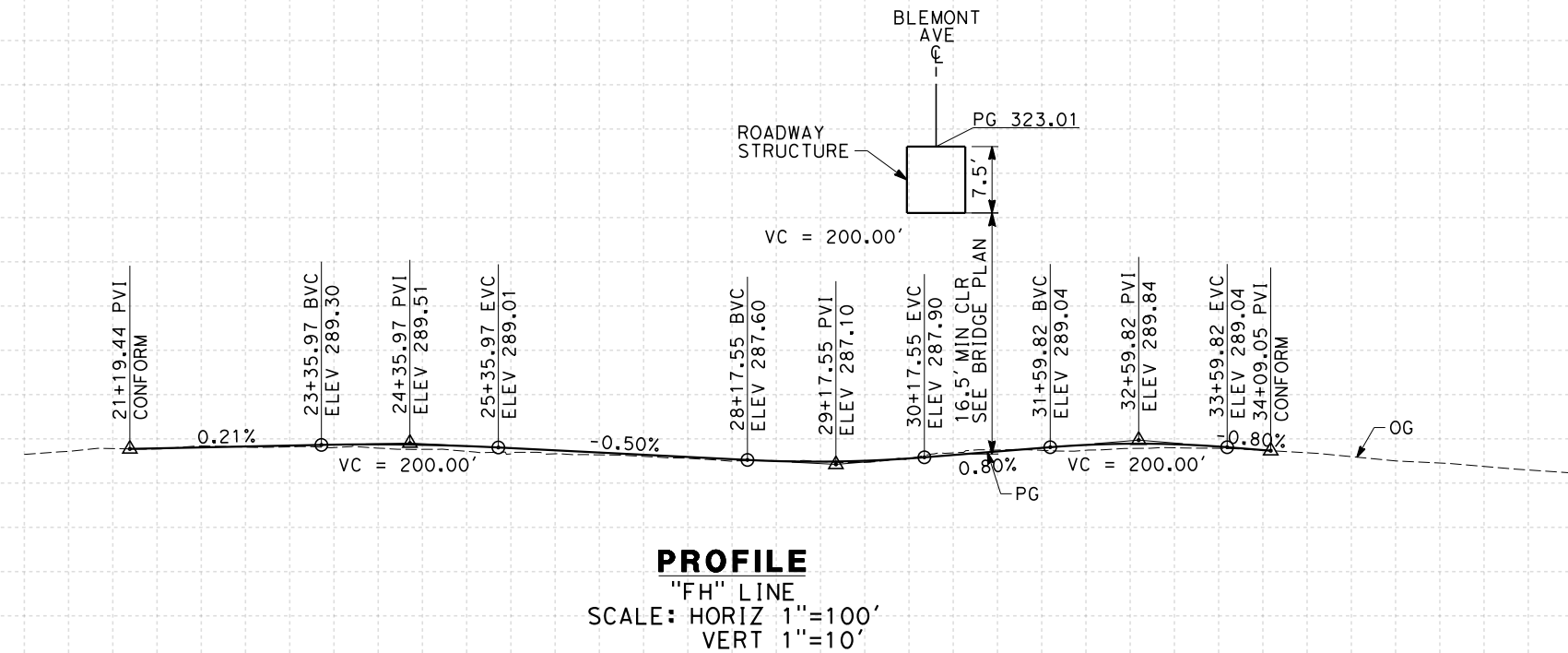
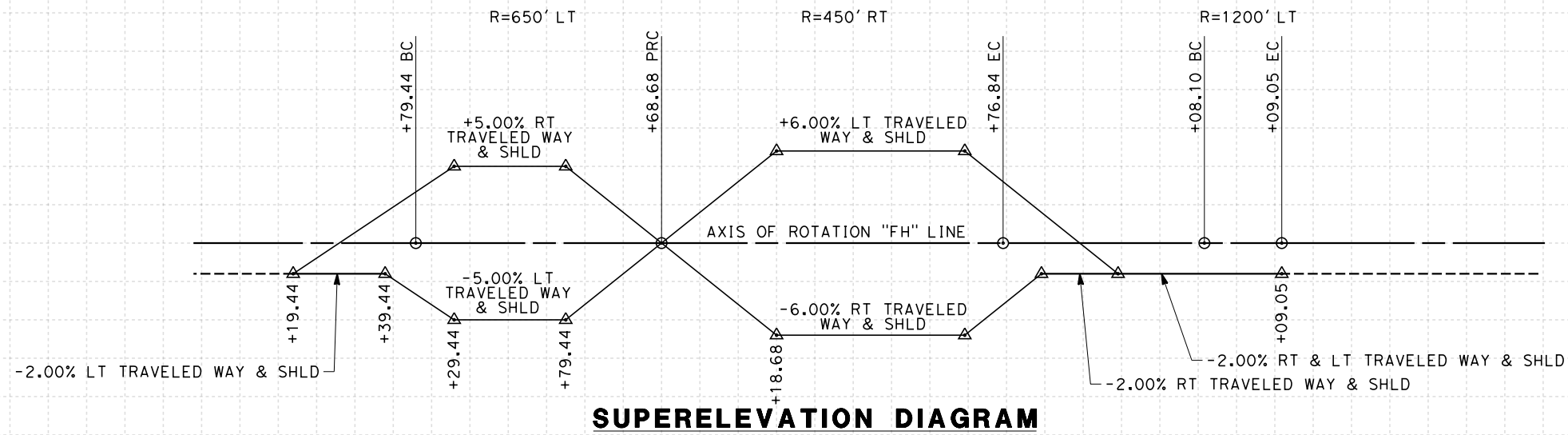
SCALE
AS SHOWN

SHEET NO.
OF

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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

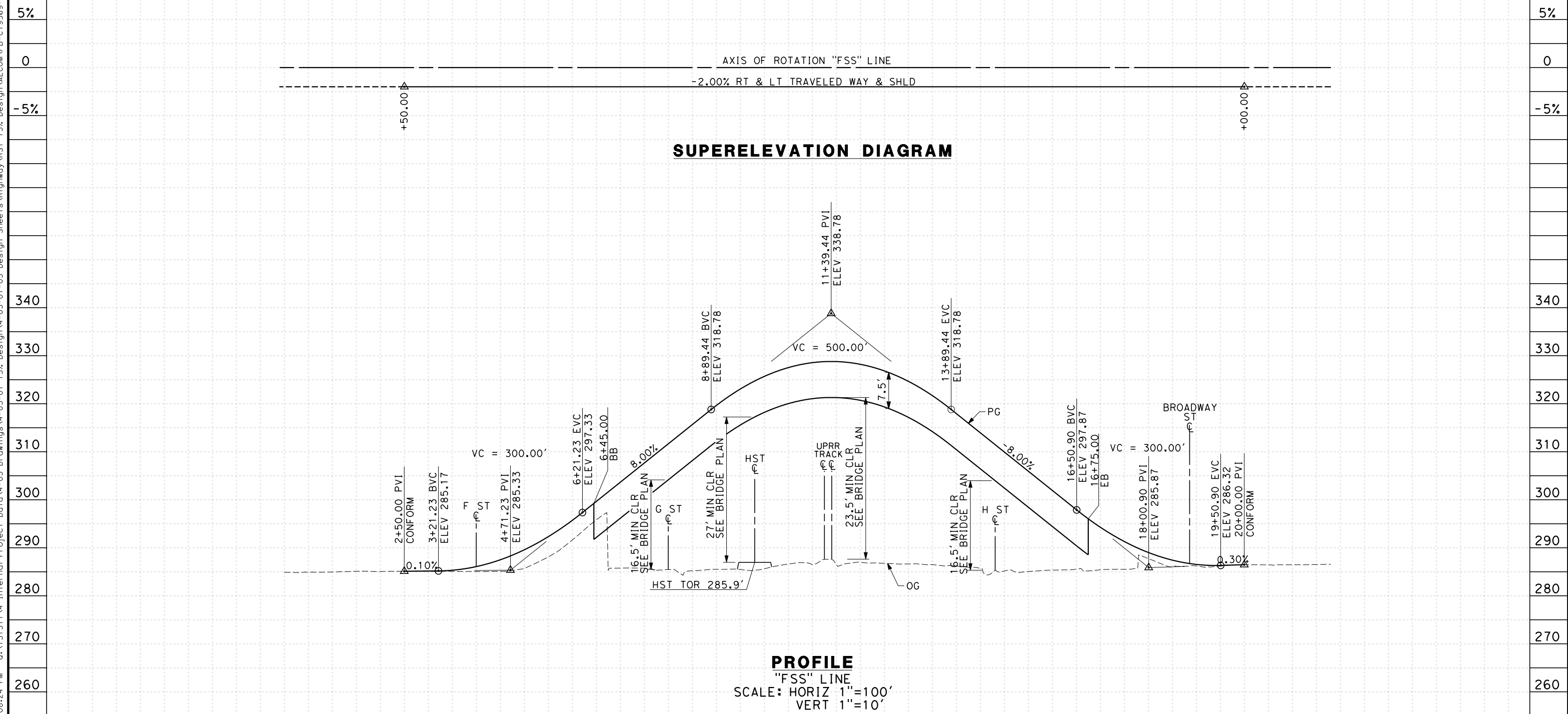
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9568-A
SCALE
AS SHOWN
SHEET NO.
OF

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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 6:08:24 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	11	12	13	14	15	16	17	18	19	20	21	22	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**



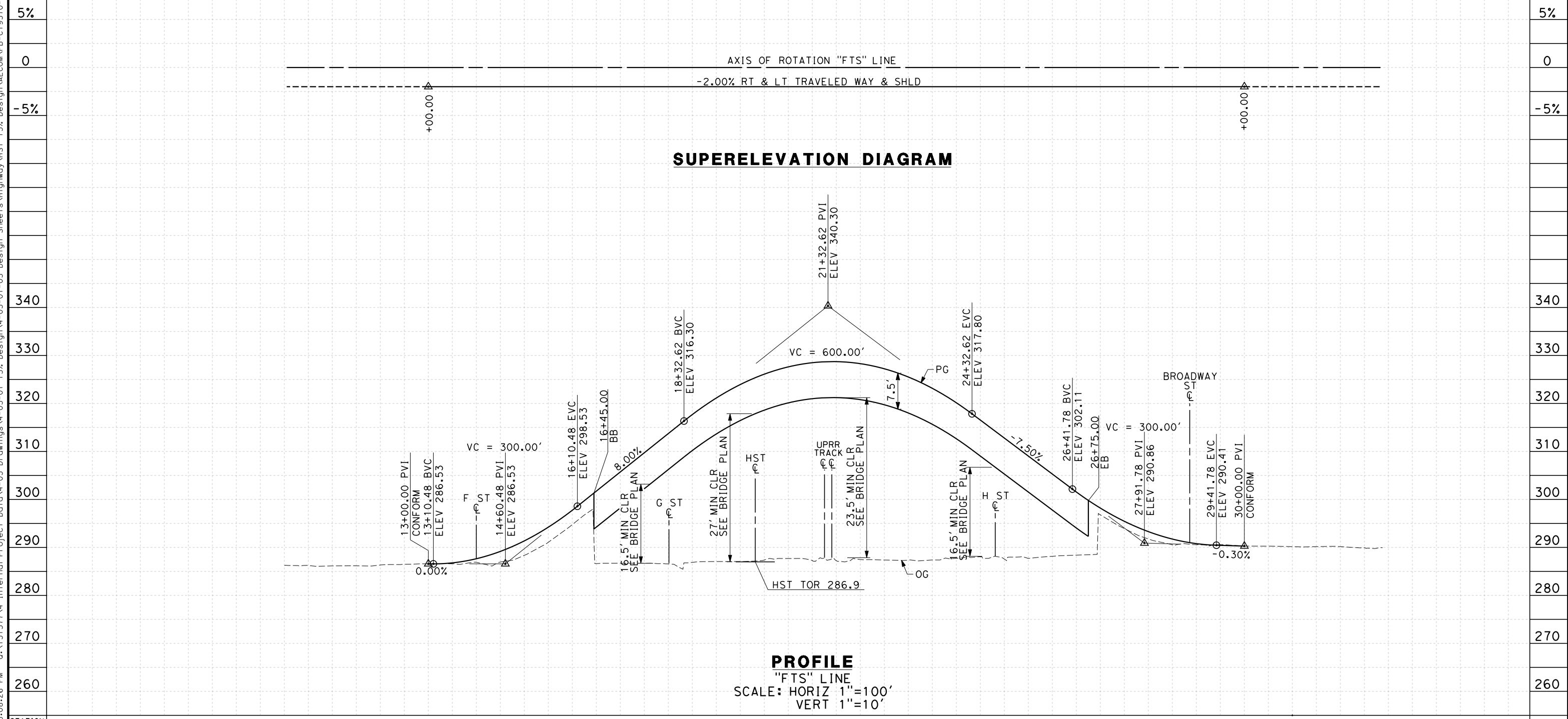
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 STANISLAUS ST

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

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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**



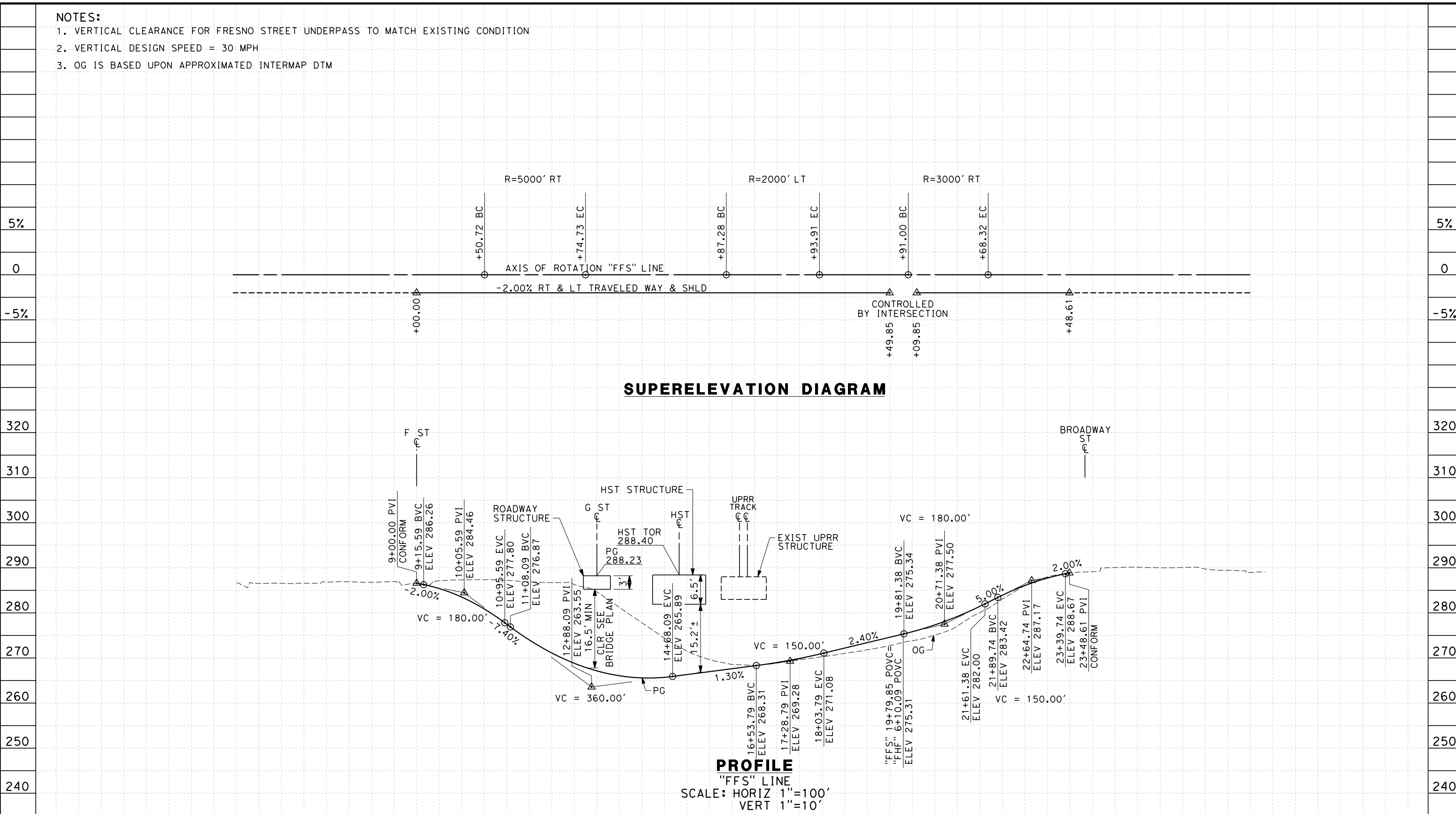
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 TUOLUMNE ST

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 Sheets\Highway\HST 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

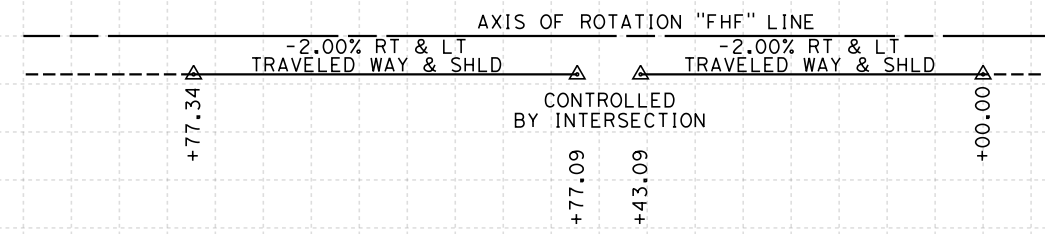
270

260

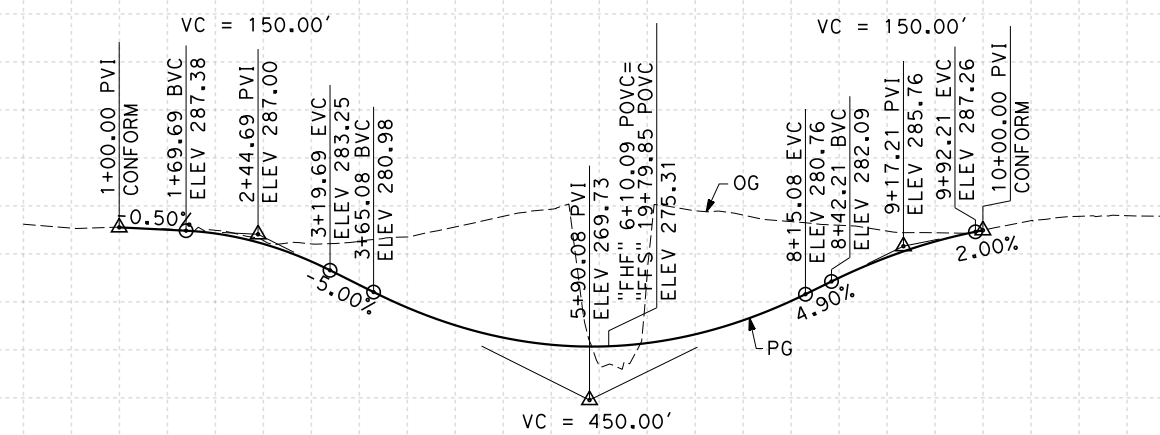
STATION

Exc
Emb

REV	DATE	BY	CHK	APP	DESCRIPTION



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

5%

0

-5%

300

290

280

270

260

TOTAL

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**



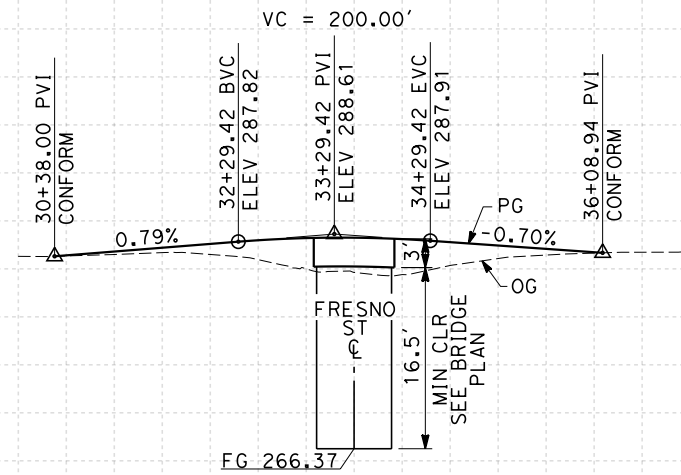
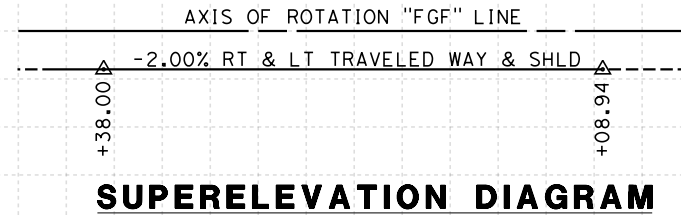
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
H ST (FRESNO ST)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT9572-A
SCALE
AS SHOWN
SHEET NO.
OF

7/20/2011 6:08:29 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-CT9572-A-F1.dgn

NOTES:

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



PROFILE

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

STATION	30	1	2	3	4	35	6	7	8	TOTAL
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)

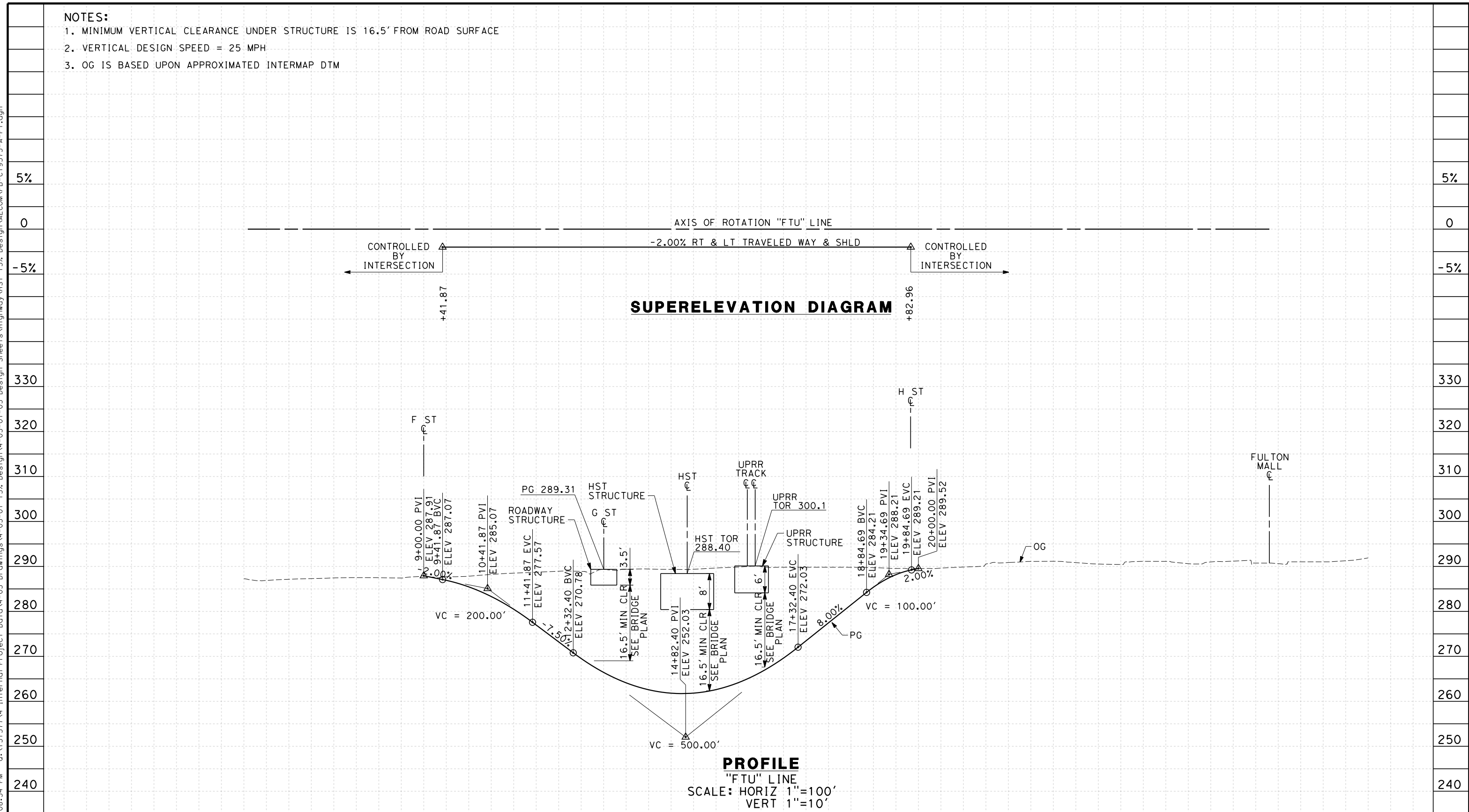
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9573-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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NOTES:

1. MINIMUM VERTICAL CLEARANCE 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

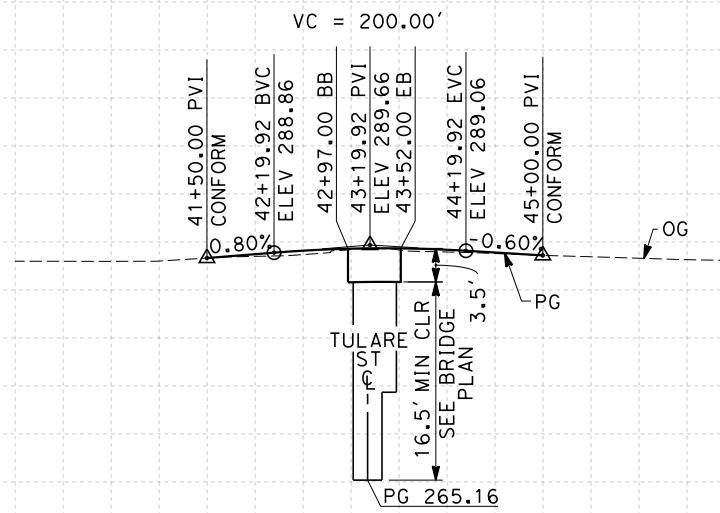
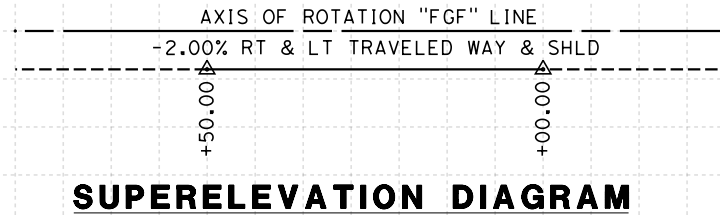
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5%
0
-5%

320
310
300
290
280
270
260

5%
0
-5%

320
310
300
290
280
270
260



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**



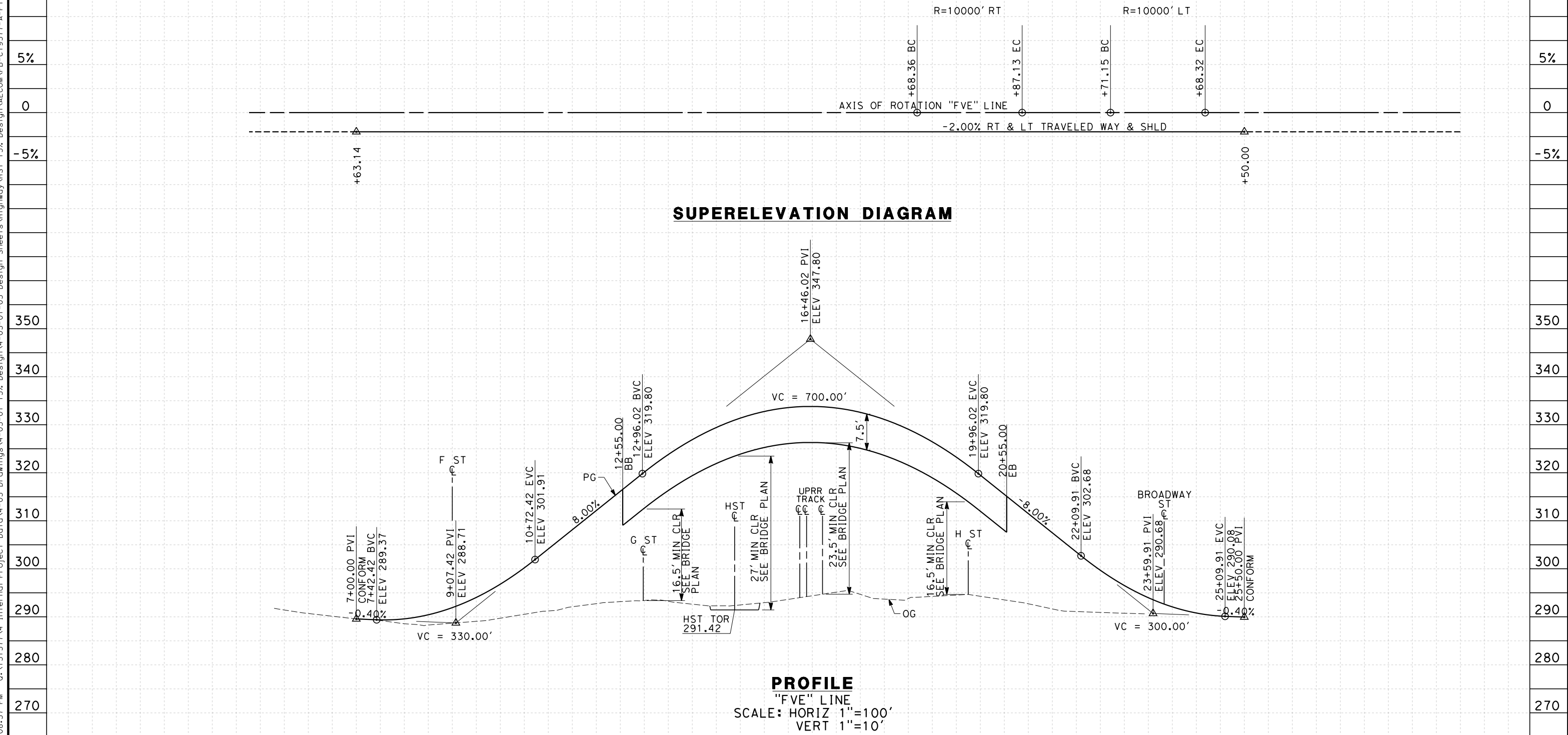
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 G ST (TULARE ST UNDERPASS)

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**



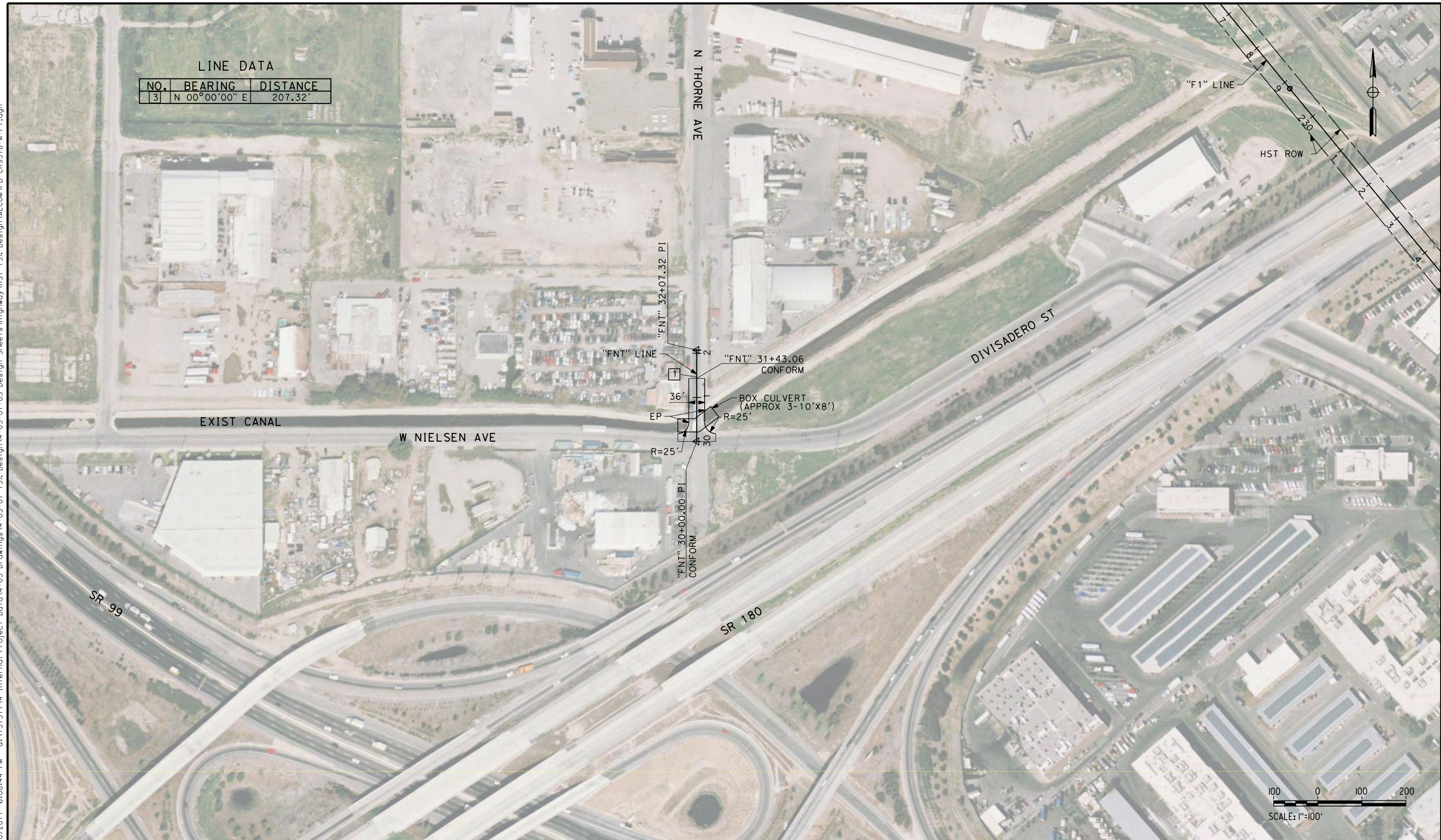
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 VENTURA ST

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9577-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

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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**

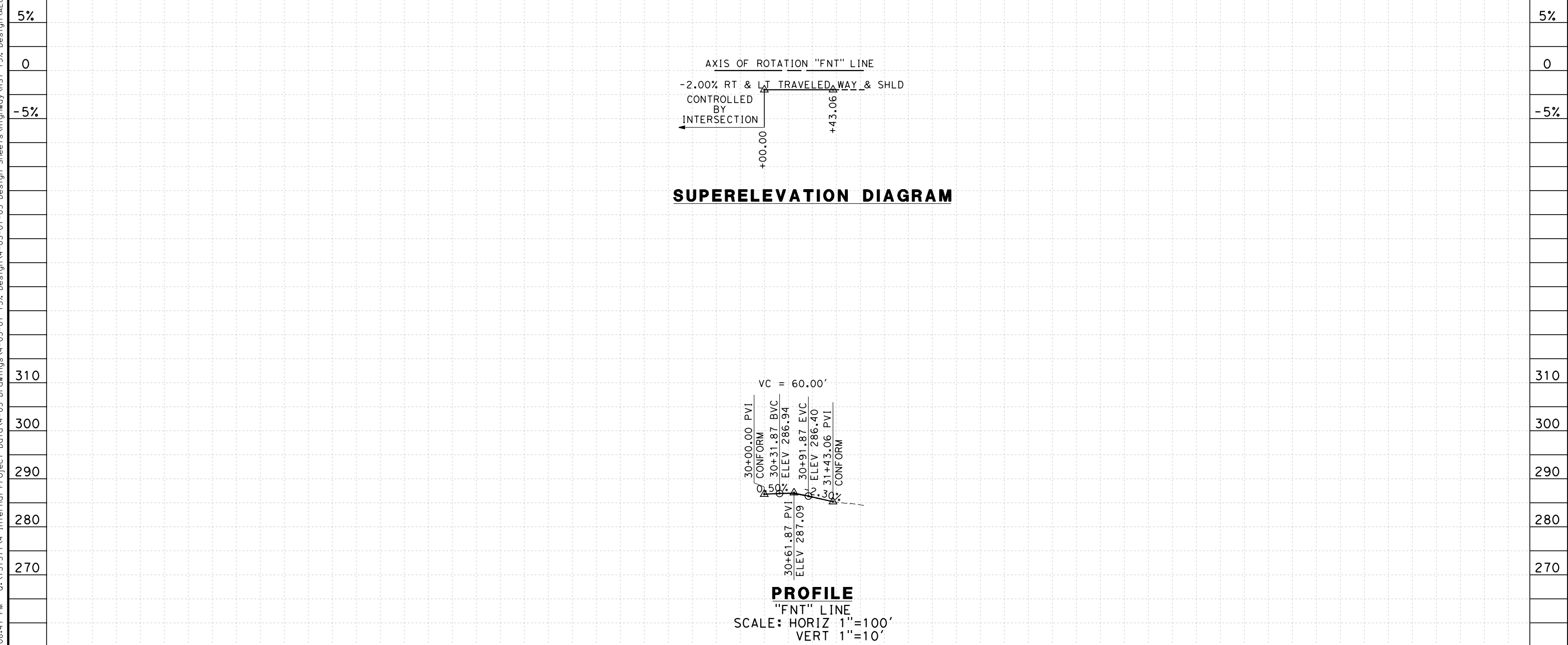


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
ROADWAY LAYOUT
N THORNE AVE

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

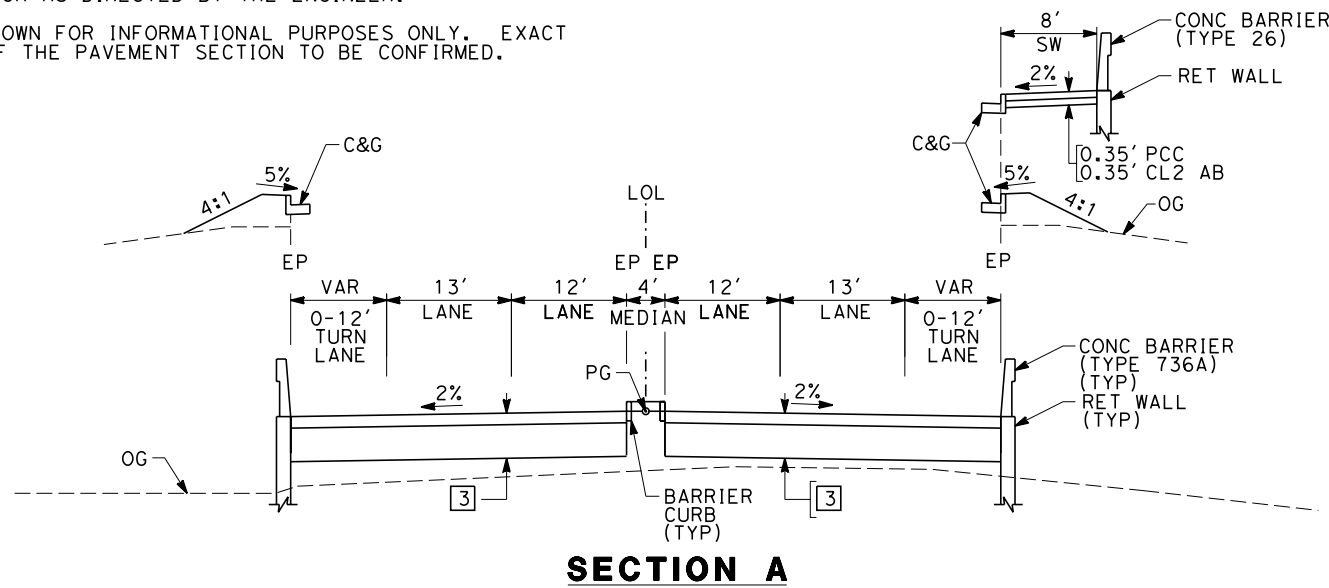
CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CR9579-A
 SCALE
 AS SHOWN
 SHEET NO.
 ### OF ###

NOTES:

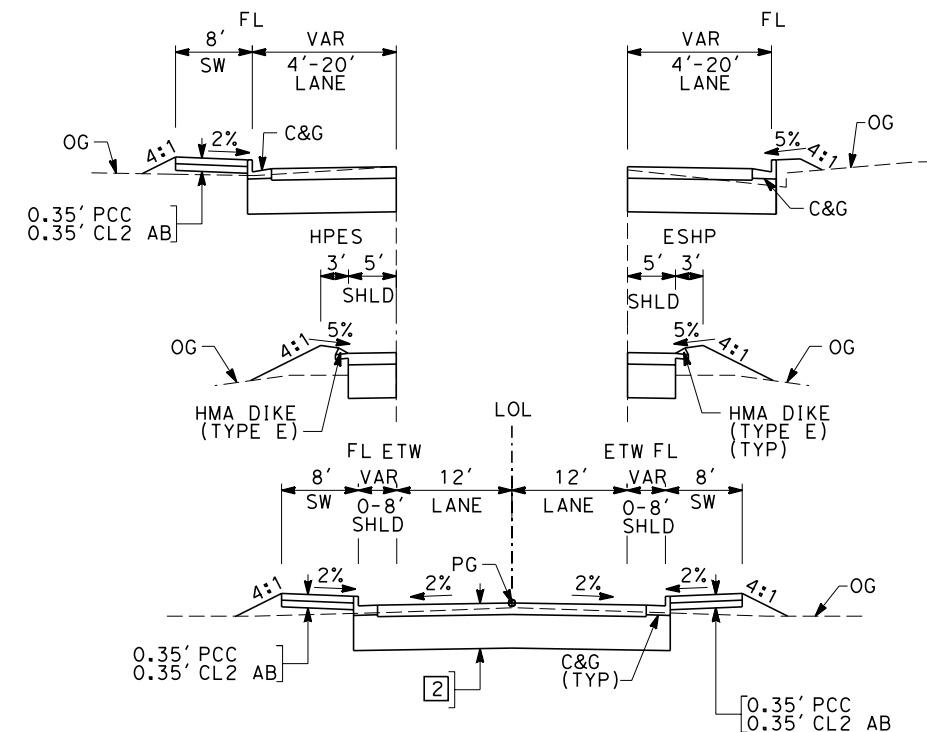
1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

**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

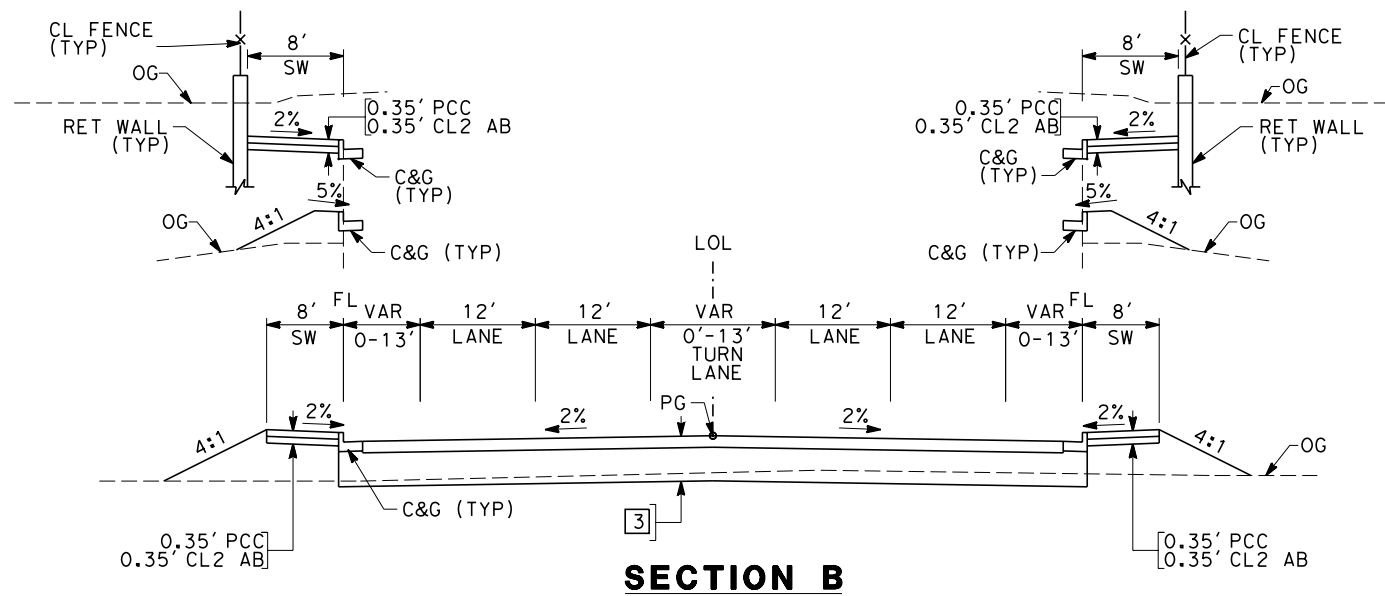


"FMC"	16+00.00 TO 22+60.00	"FBEL"	23+34.30 TO 29+55.58
"FMC"	26+50.00 TO 29+31.13	"FVE"	9+55.00 TO 12+55.00
"FOL"	13+05.96 TO 19+19.99	"FVE"	20+55.00 TO 22+71.15
"FOL"	24+82.94 TO 30+06.12	"FCH"	16+85.51 TO 21+20.00
"FBEL"	12+14.63 TO 17+09.30	"FCH"	29+45.00 TO 35+45.11



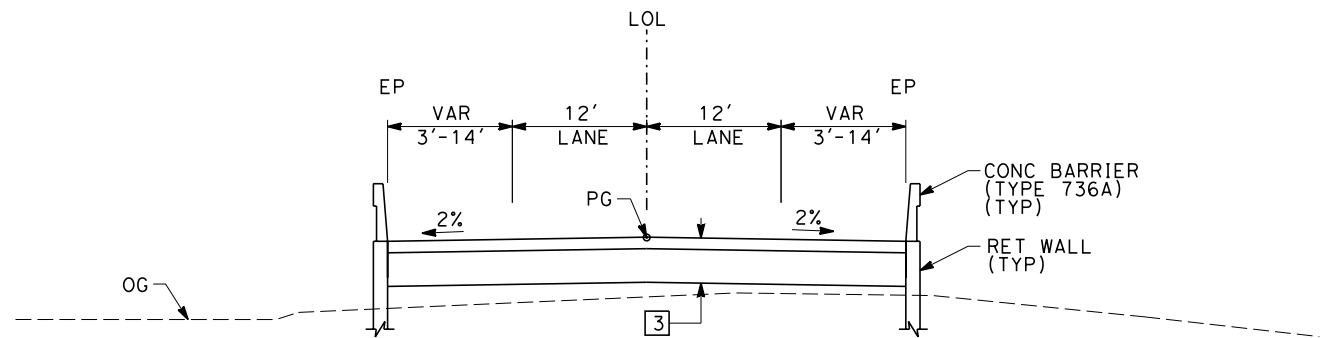
SECTION C

"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

eron_sudhausen 7/20/2011 6:08:51 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\AECOM\FB-CT9580-A-F1.dgn

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**

**NOT FOR
CONSTRUCTION**

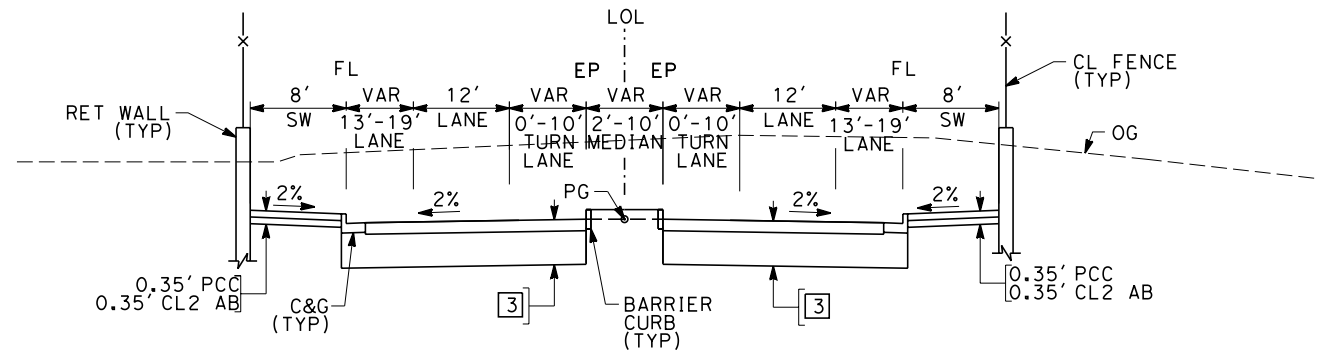


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

FRESNO SUBSECTION
ALIGNMENT F1
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

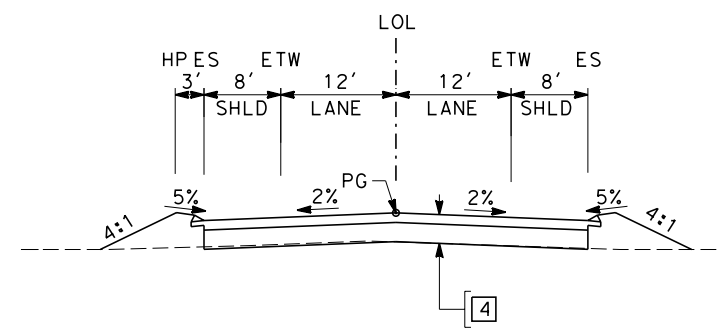
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DRAWING NO. CT9580-A
SCALE NO SCALE
SHEET NO. ### OF ###

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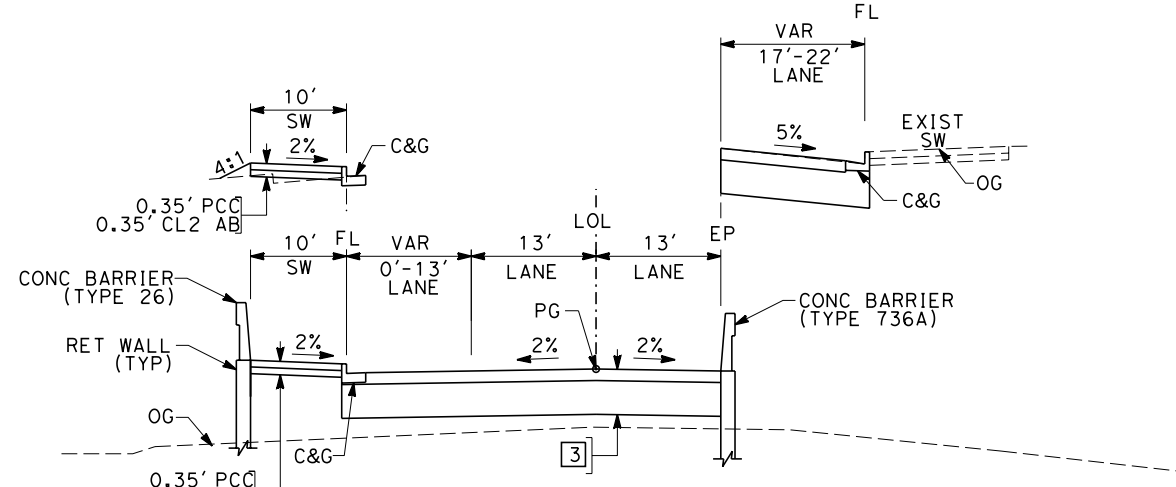
SECTION E

"FFS" 9+00.00 TO 23+48.61



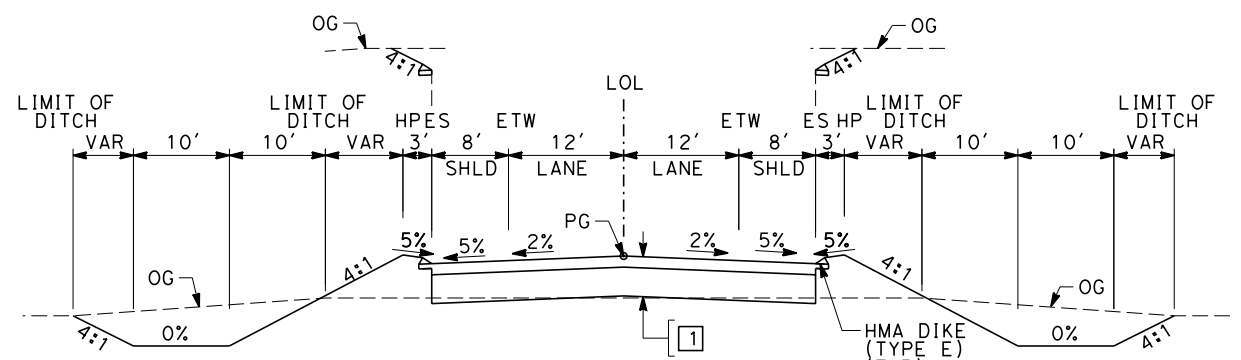
SECTION H

"FCE" 21+00.00 TO 24+00.00



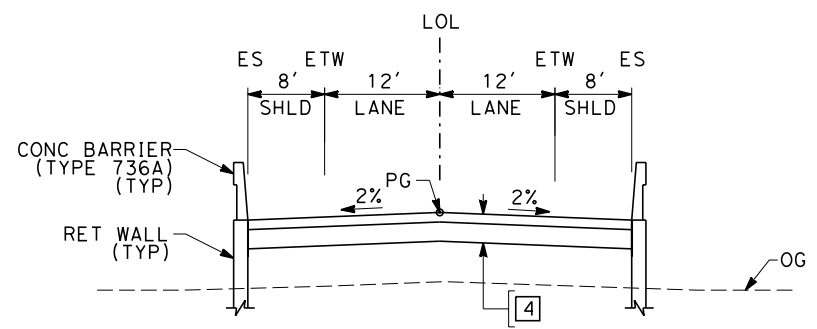
SECTION F

"FTU" 5+16.00 TO 12+55.43 (OVERHEAD OPTION)
 "FTU" 20+34.30 TO 27+00.00 (OVERHEAD OPTION)



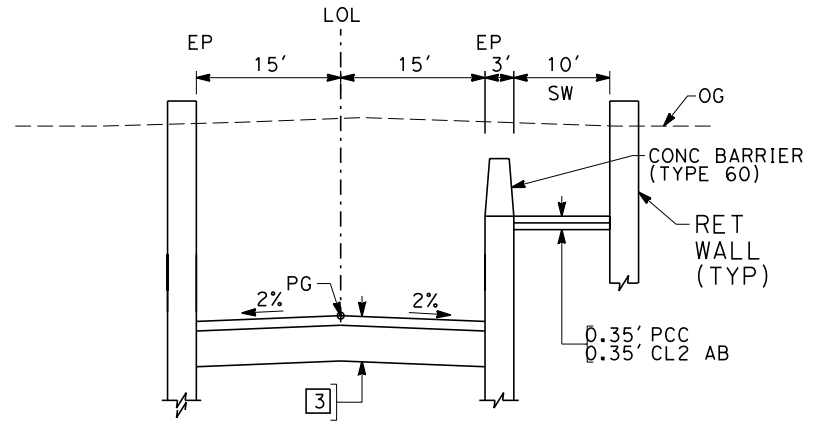
SECTION I

"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**

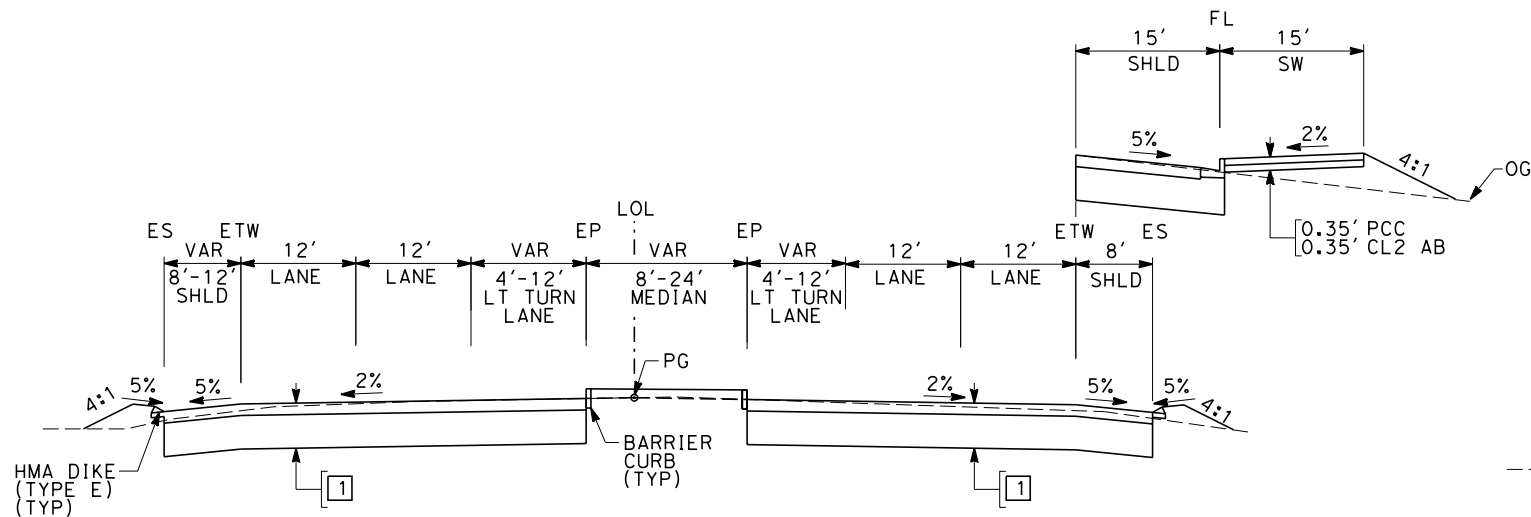
**NOT FOR
 CONSTRUCTION**



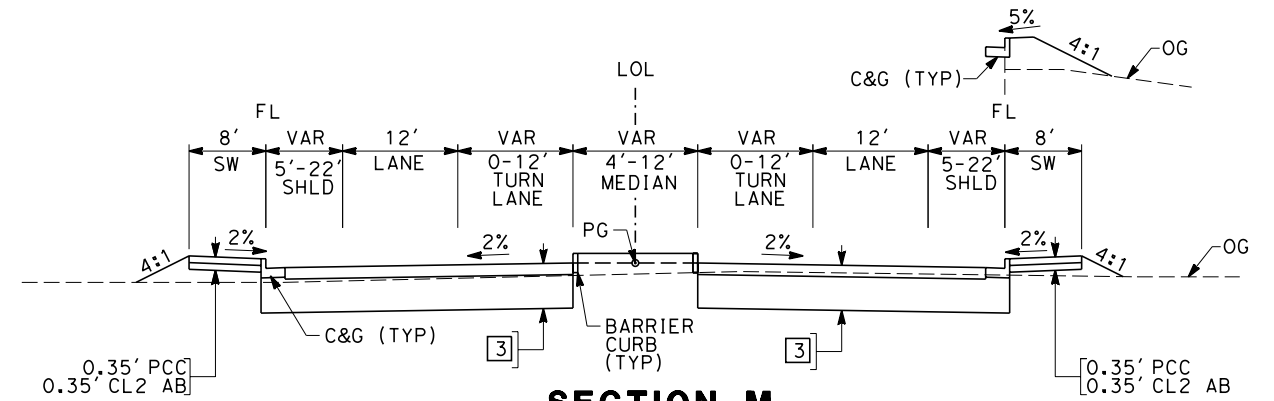
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 ROADWAY / GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT9581-A
 SCALE
 NO SCALE
 SHEET NO.
 ### OF ###

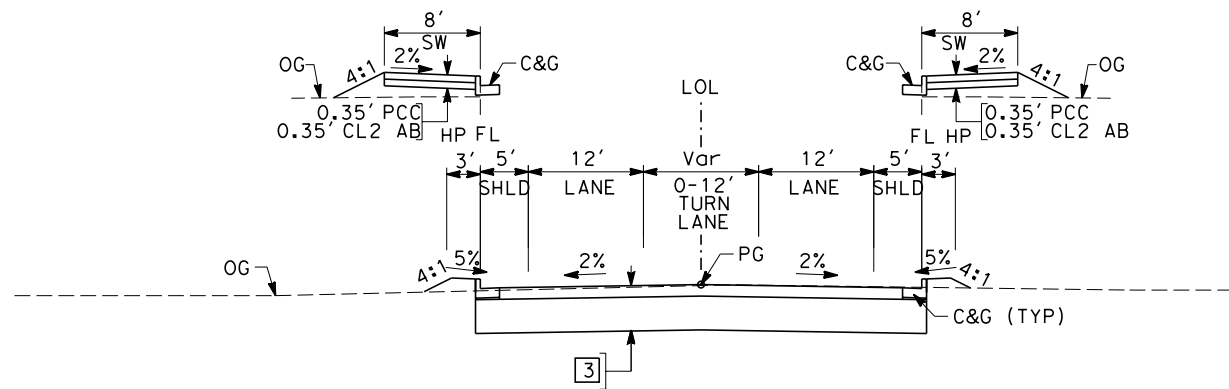
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SECTION K
"SGSB" 2+00.00 TO 6+00.00



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

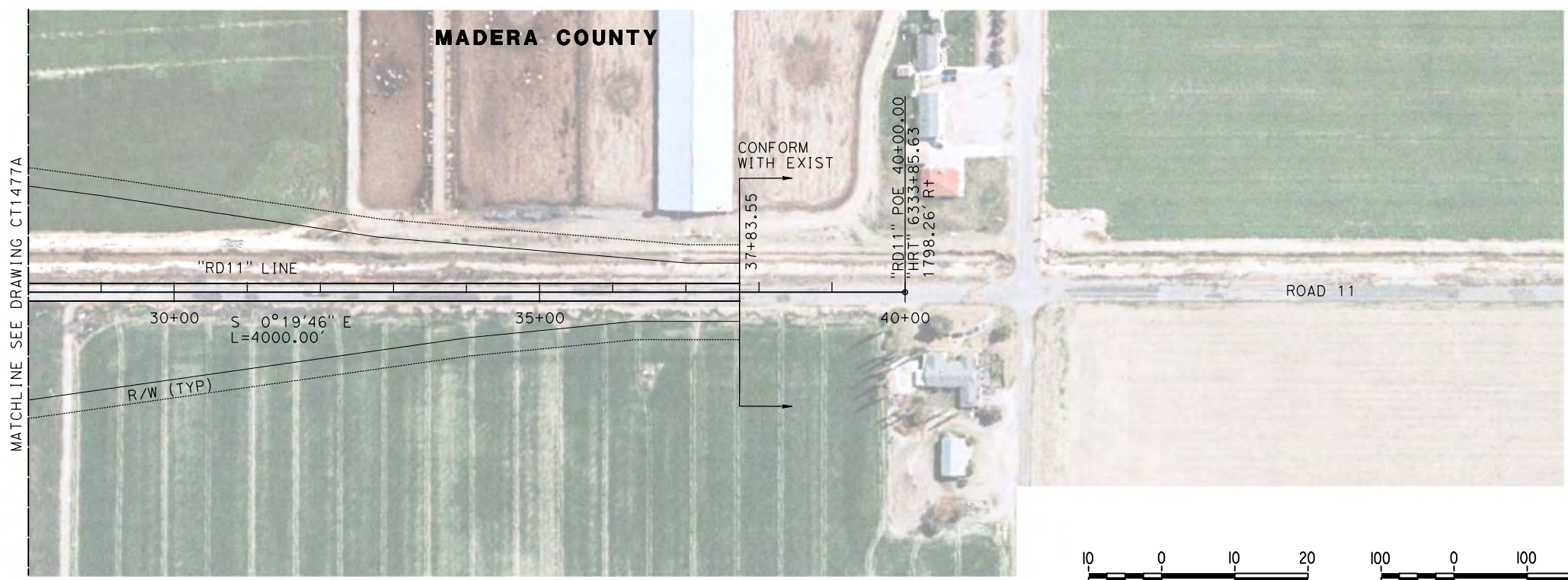
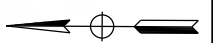
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

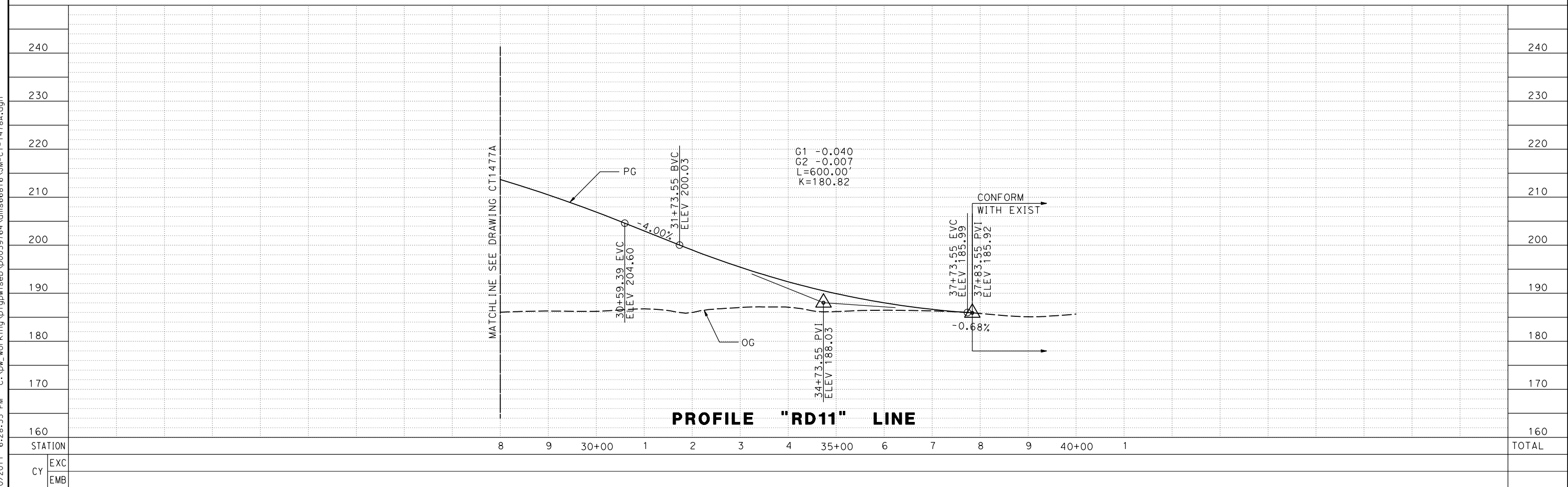
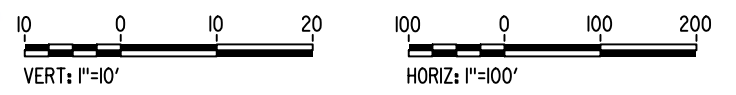


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 FRESNO SUBSECTION
 ALIGNMENT F1
 ROADWAY / GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT9582-A
 SCALE
NO SCALE
 SHEET NO.
OF



PLAN



PROFILE "RD11" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

**NOT FOR
CONSTRUCTION**

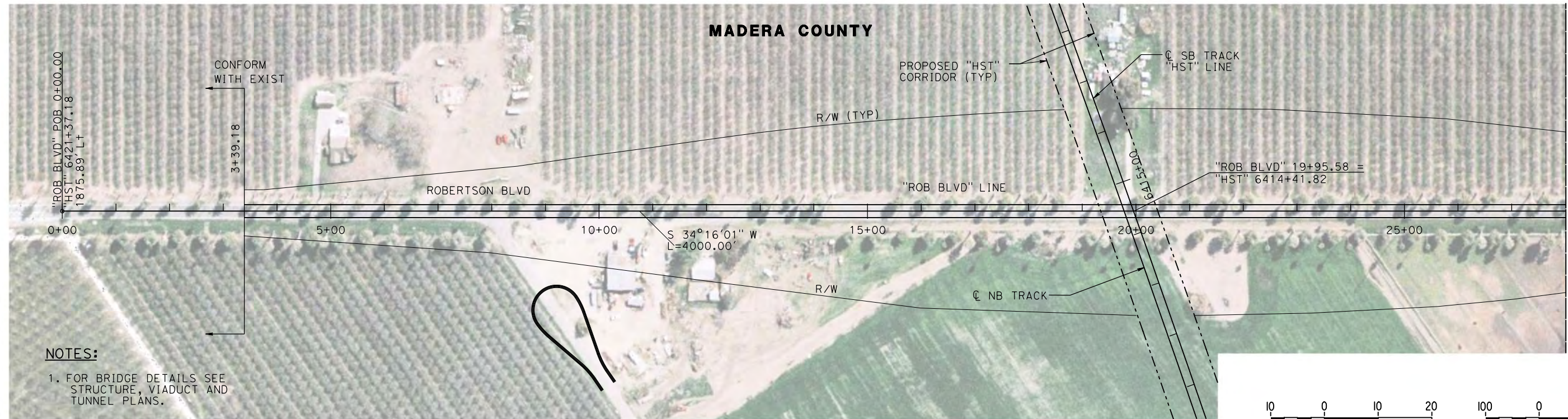


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24/SR 152/AVENUE 21
ROAD 11 GRADE SEPARATION
PLAN AND PROFILE

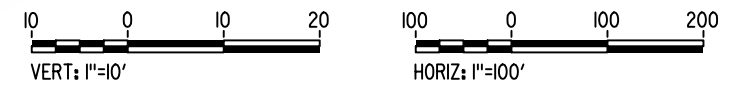
CONTRACT NO.
HSR08-05
DRAWING NO.
CT1478A
SCALE
AS SHOWN
SHEET NO.
2 OF 2

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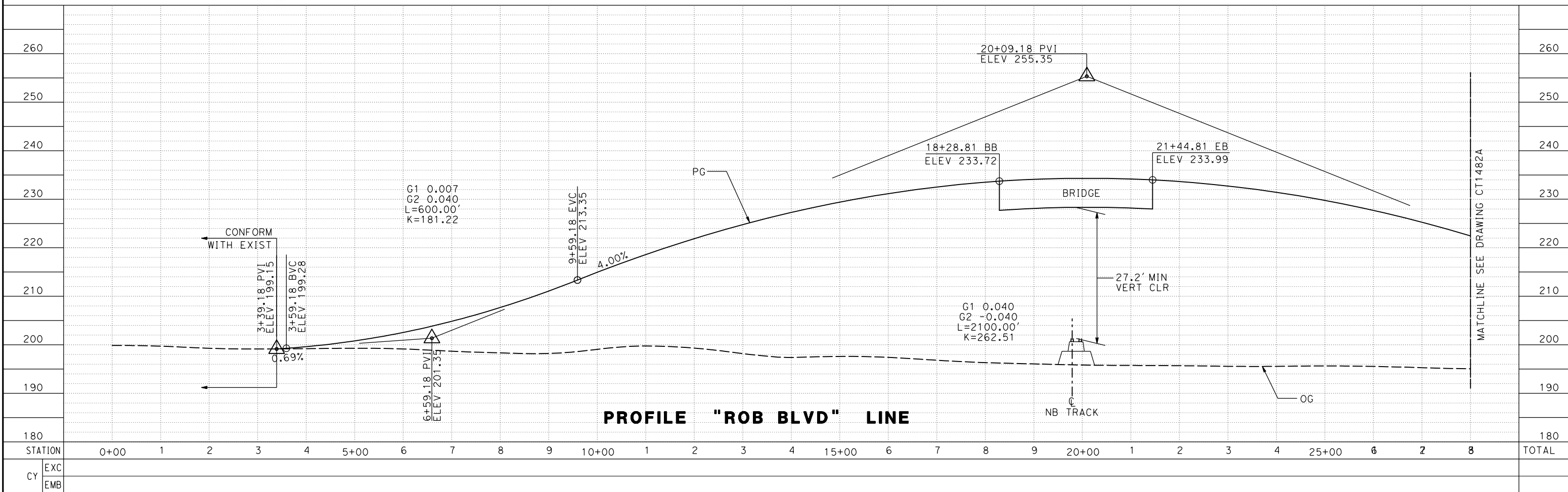


NOTES:

1. FOR BRIDGE DETAILS SEE STRUCTURE, VIADUCT AND TUNNEL PLANS.



PLAN



PROFILE "ROB BLVD" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

**NOT FOR
CONSTRUCTION**



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

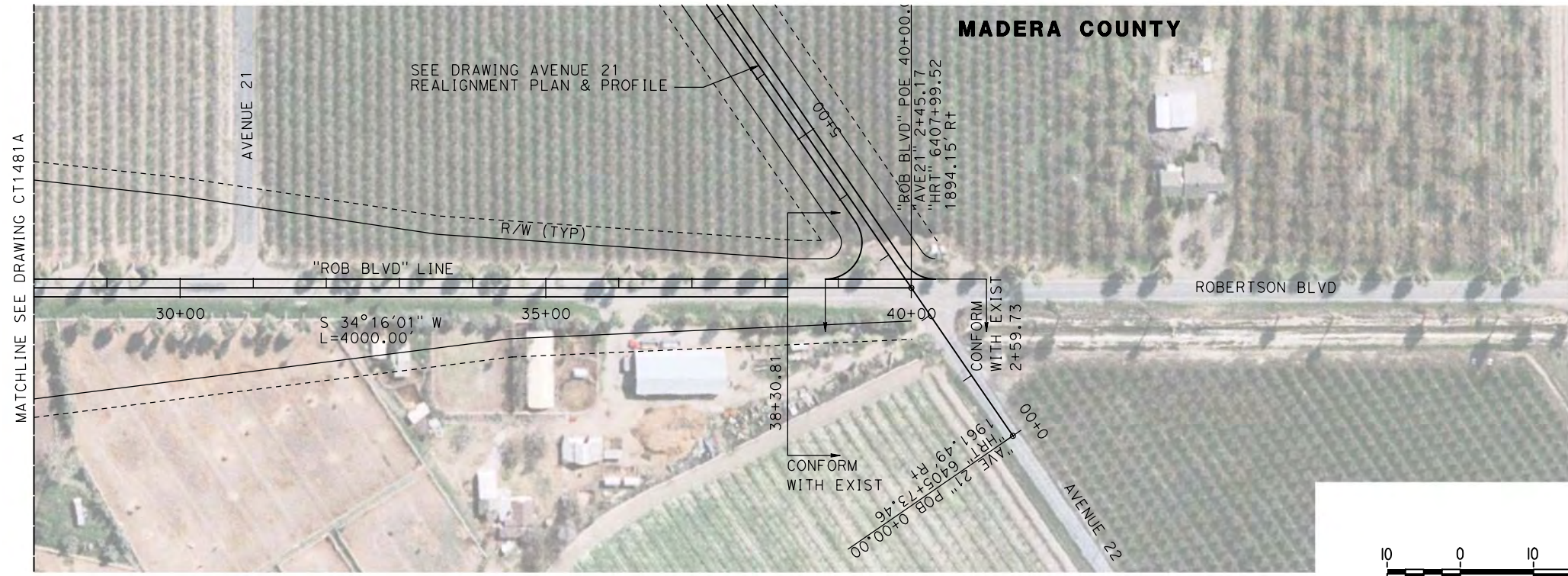
BNSF MAIN LINE
AVENUE 24/SR 152/AVENUE 21
ROBERTSON BLVD GRADE SEPARATION
PLAN AND PROFILE

CONTRACT NO.
HSR08-05
DRAWING NO.
CT1481A
SCALE
AS SHOWN
SHEET NO.
1 OF 2

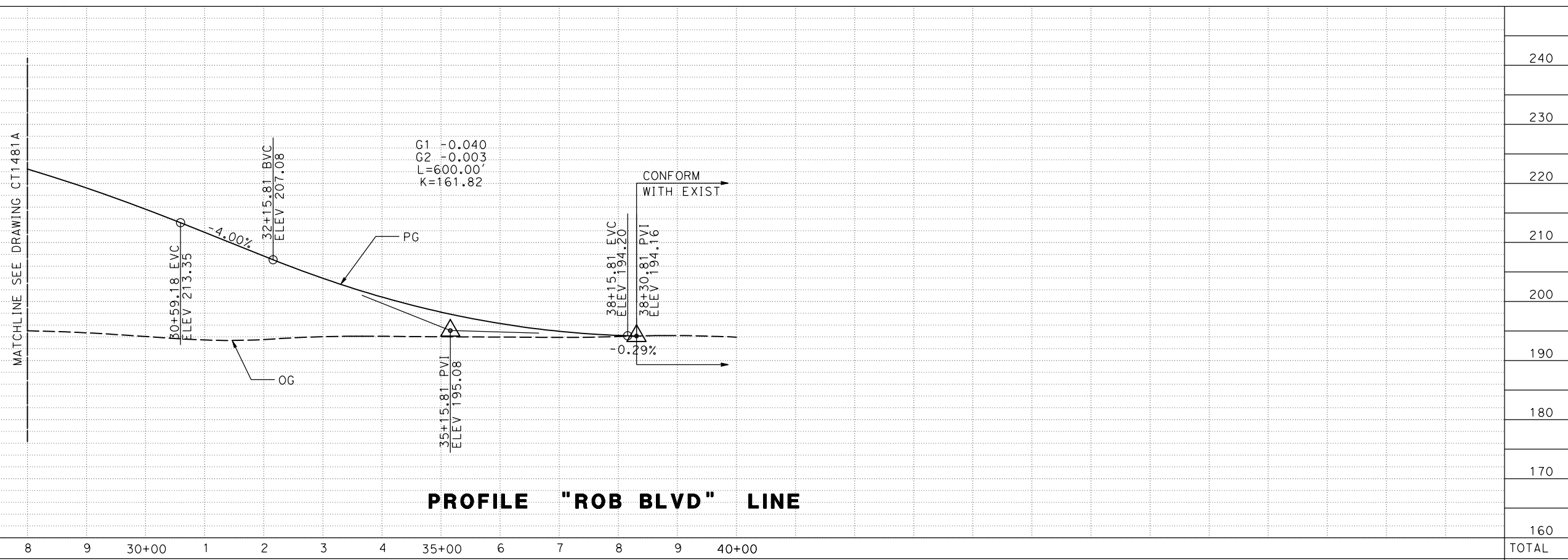
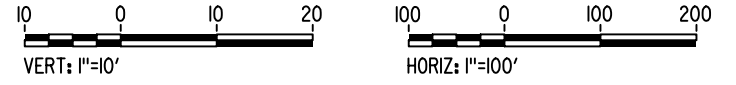
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p0039764



PLAN



PROFILE "ROB BLVD" LINE

STATION	8	9	30+00	1	2	3	4	35+00	6	7	8	9	40+00	TOTAL
EXC														
EMB														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

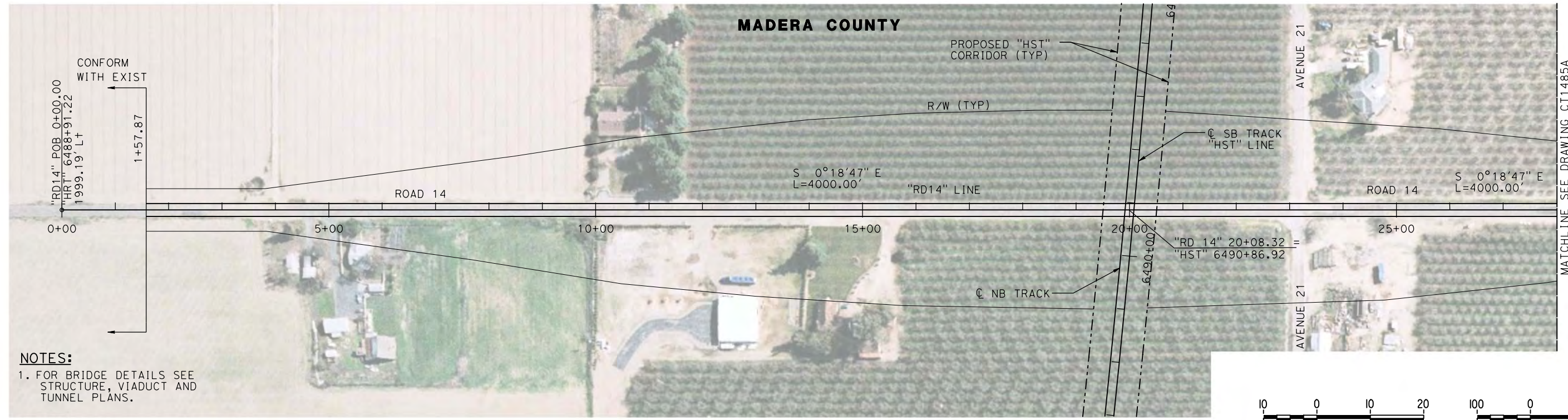
**NOT FOR
CONSTRUCTION**



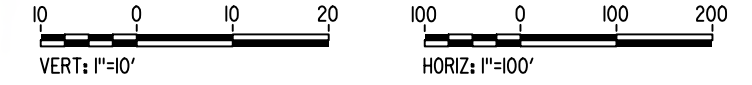
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24/SR 152/AVENUE 21
ROBERTSON BLVD GRADE SEPARATION
PLAN AND PROFILE

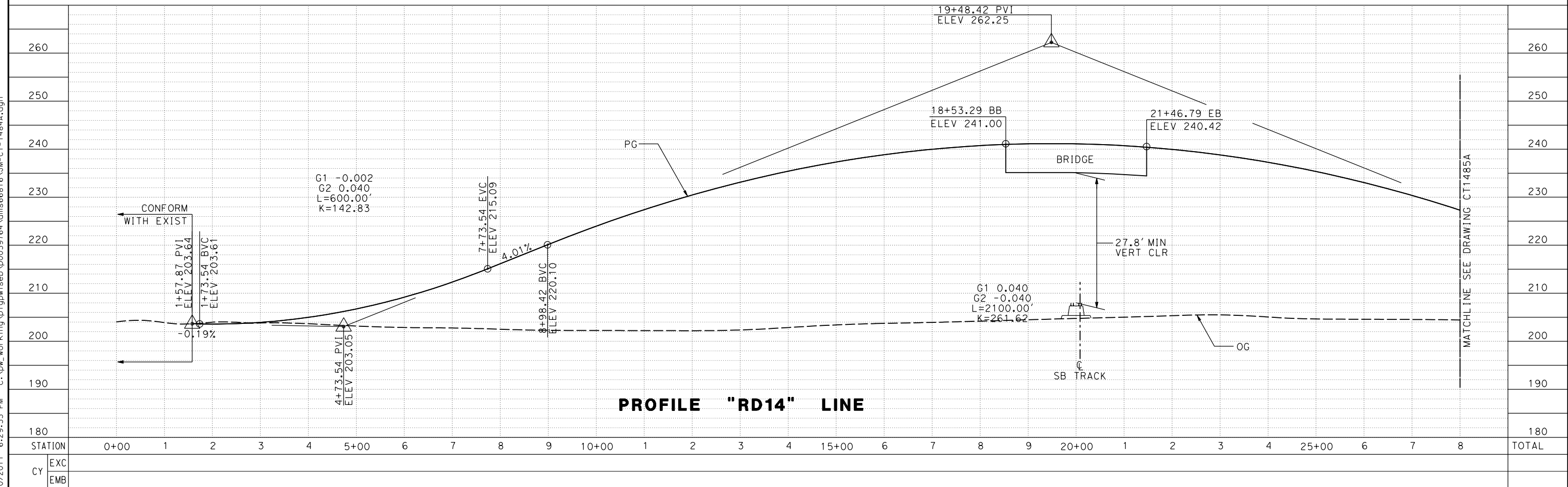
CONTRACT NO.
HSR08-05
DRAWING NO.
CT1482A
SCALE
AS SHOWN
SHEET NO.
2 OF 2



NOTES:
 1. FOR BRIDGE DETAILS SEE STRUCTURE, VIADUCT AND TUNNEL PLANS.



PLAN



PROFILE "RD14" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY
 DRAWN BY
ALBERT S.
 CHECKED BY
RESHMA C.
 IN CHARGE
D. WEMMER
 DATE
4/15/2011

**15% DRAFT
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 MERCED TO FRESNO**

BNSF MAIN LINE
 AVENUE 24/SR 152/AVENUE 21
 ROAD 14 GRADE SEPARATION
 PLAN AND PROFILE

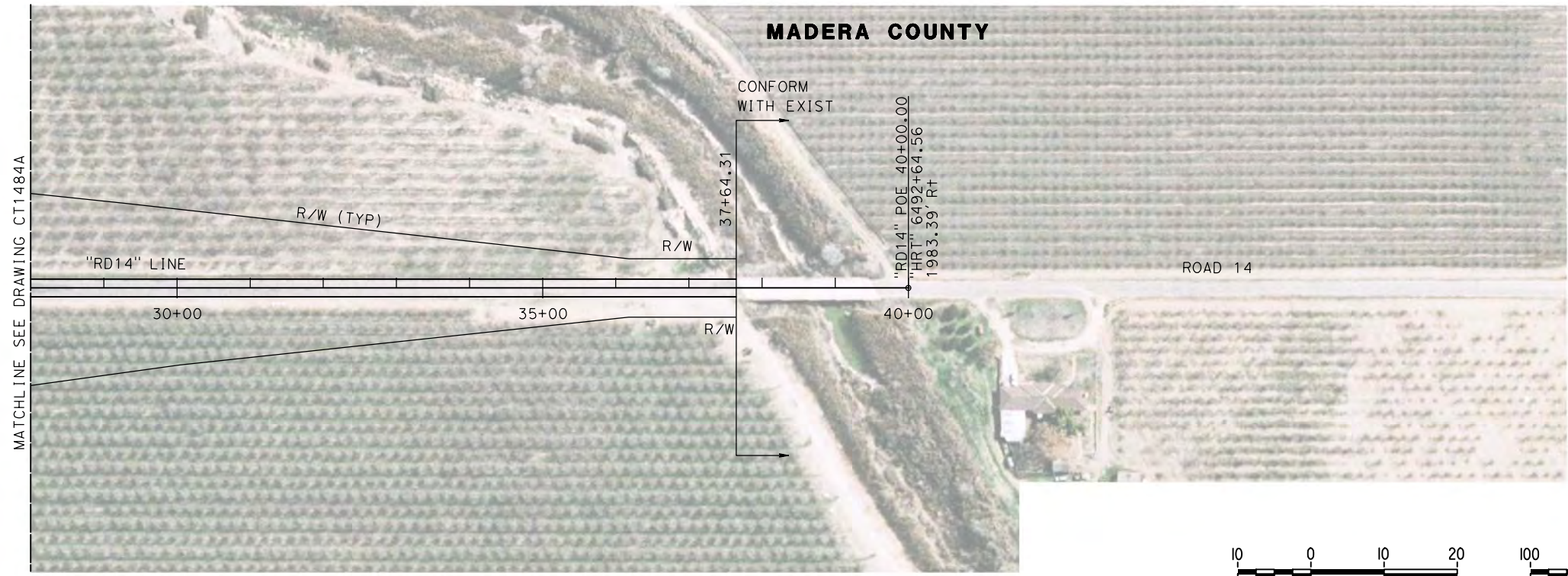
CONTRACT NO.
HSR08-05

DRAWING NO.
CT1484A

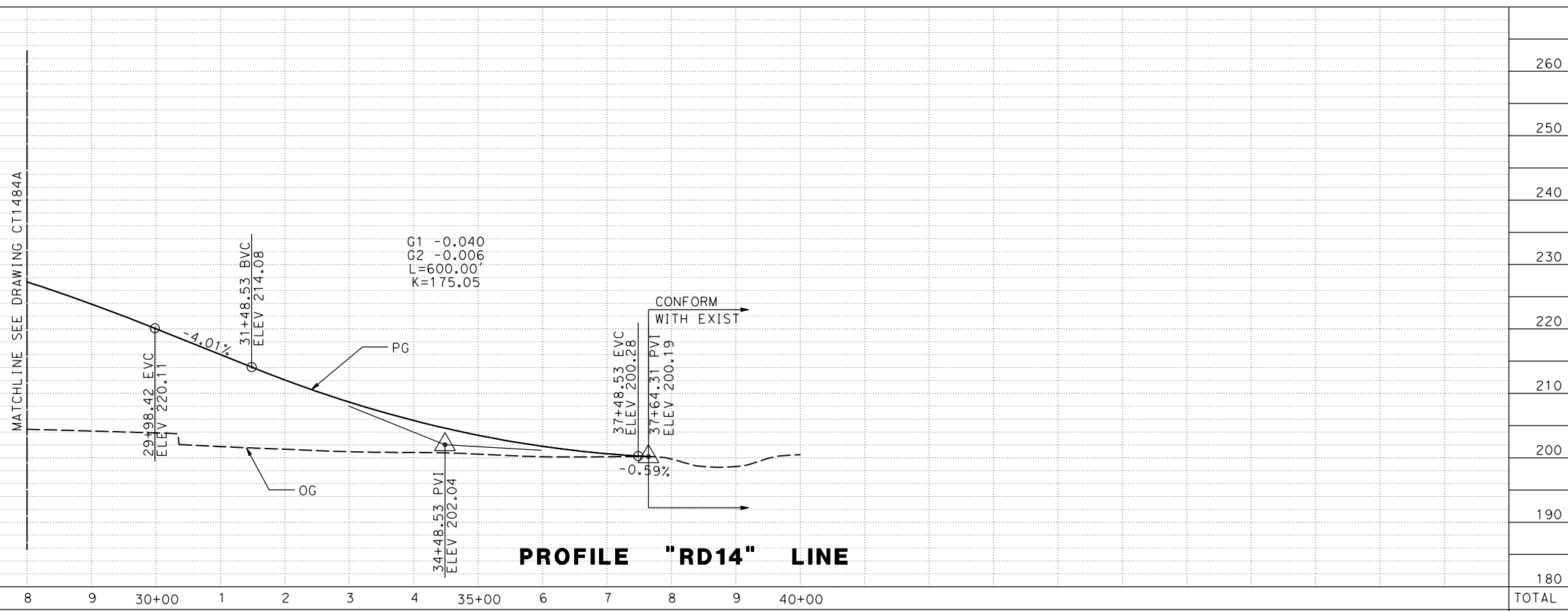
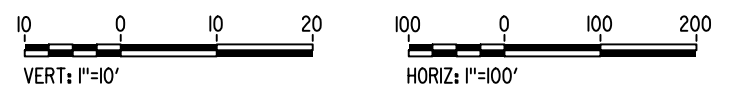
SCALE
AS SHOWN

SHEET NO.
1 OF 2

7/20/2011 6:29:33 PM c:\pwworking\ptgwise\p0039764\dms66816\JM-CT-1484A.dgn



PLAN



PROFILE "RD14" LINE

7/20/2011 6:29:49 PM c:\pw_working\ptgwiseb\p0039764\dms66816\JM-CT-1485A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

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FOR INTERNAL
USE ONLY**

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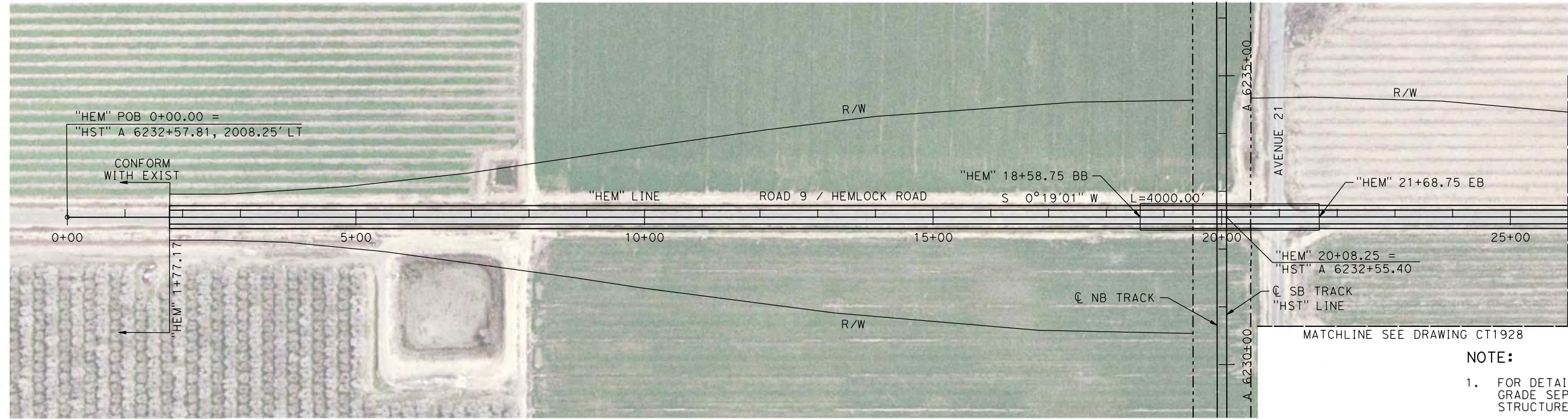


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24/SR 152/AVENUE 21
ROAD 14 GRADE SEPARATION
PLAN AND PROFILE

CONTRACT NO.
HSR08-05
DRAWING NO.
CT1485A
SCALE
AS SHOWN
SHEET NO.
2 OF 2

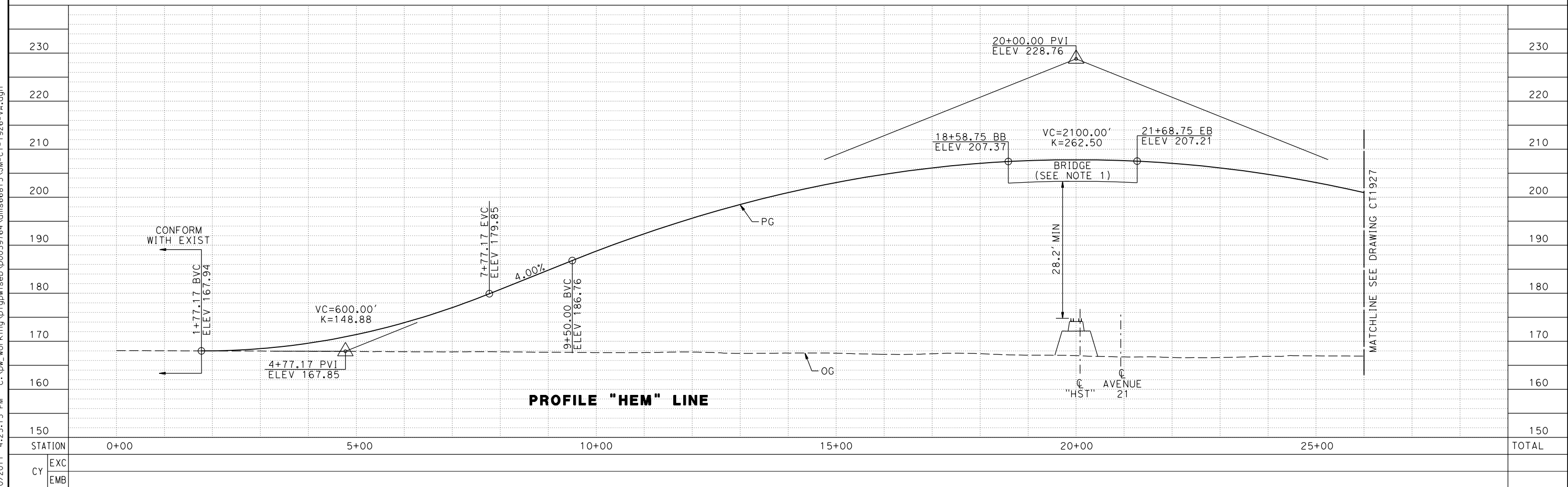
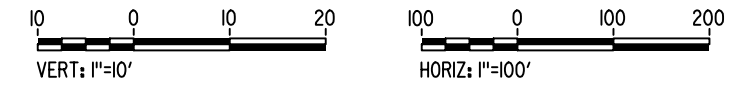
MADERA COUNTY



PLAN

NOTE:

- FOR DETAILS OF ROAD 9 / HEMLOCK ROAD GRADE SEPARATION BRIDGE SEE STRUCTURE, VIADUCT, AND TUNNEL PLANS.



PROFILE "HEM" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.
DRAWN BY
R. BROWNE
CHECKED BY
M. SANTOS
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
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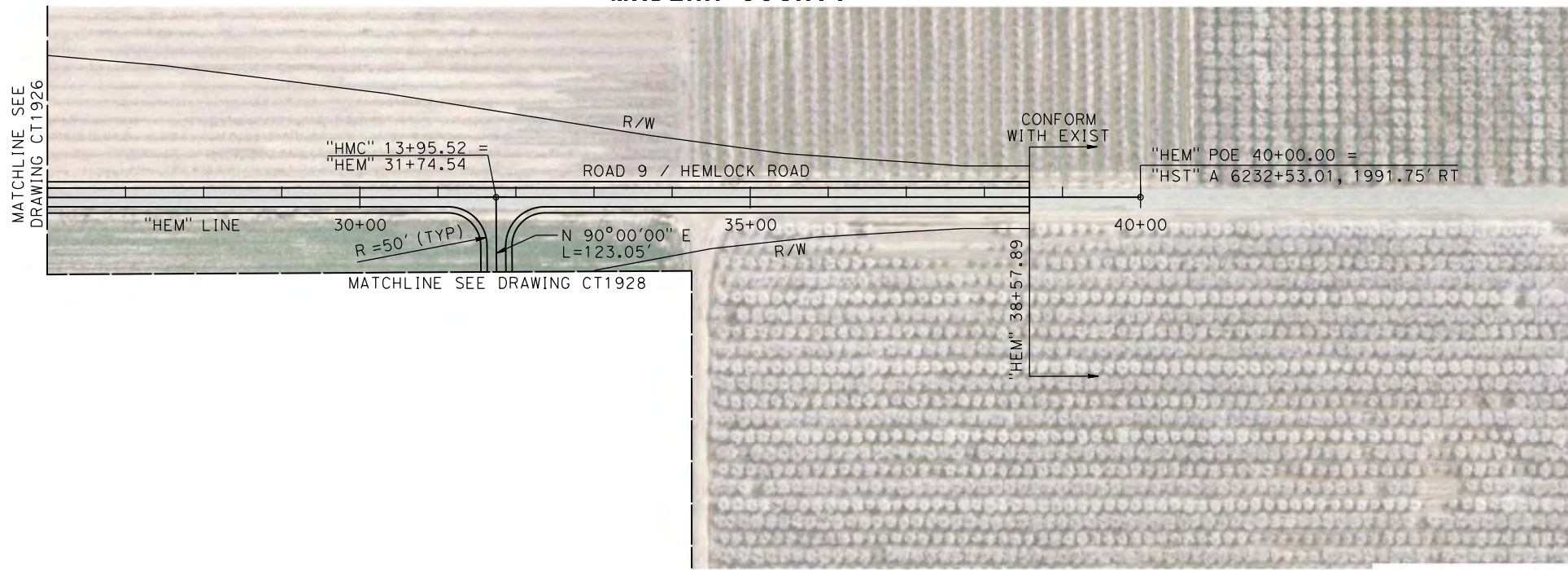
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 9 / HEMLOCK ROAD GRADE SEPARATION

CONTRACT NO.
HSR08-05
DRAWING NO.
CT1926
SCALE
AS NOTED
SHEET NO.

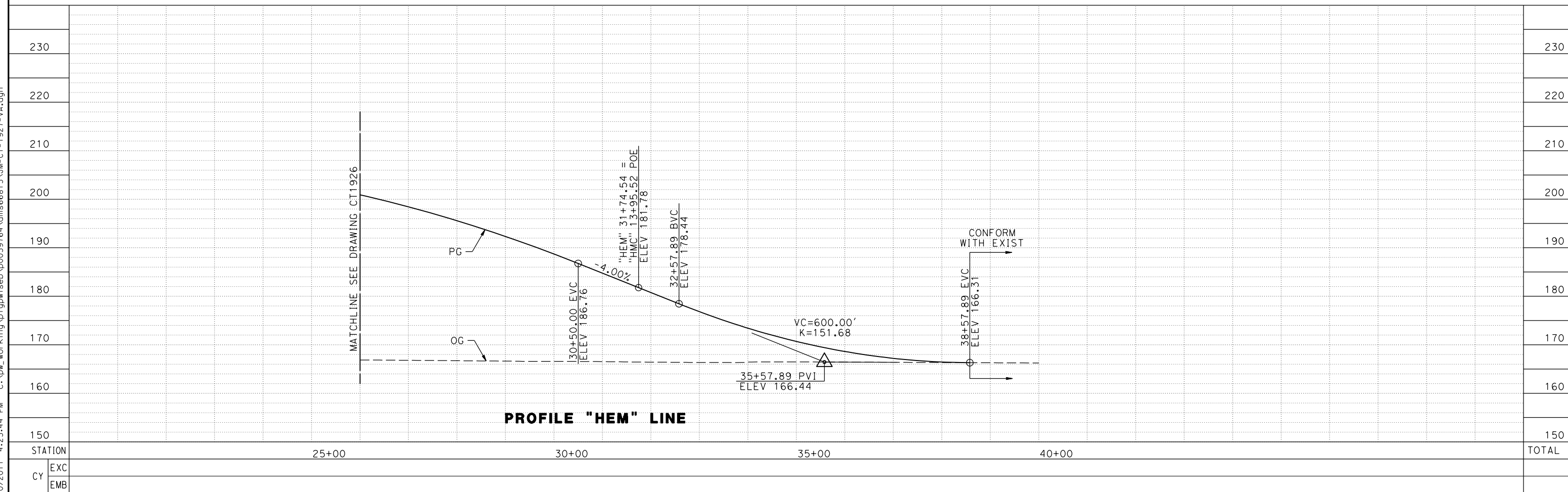
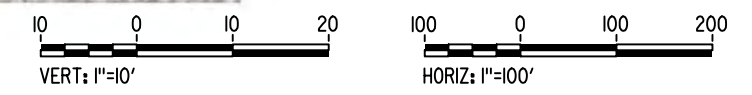
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MADERA COUNTY



NOTE:
1. SEE DRAWING CT1928 FOR DETAILS OF ROAD 9 / HEMLOCK ROAD TO AVENUE 21 CONNECTOR ROAD "HMC" LINE.

PLAN



PROFILE "HEM" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.
DRAWN BY
R. BROWNE
CHECKED BY
M. SANTOS
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
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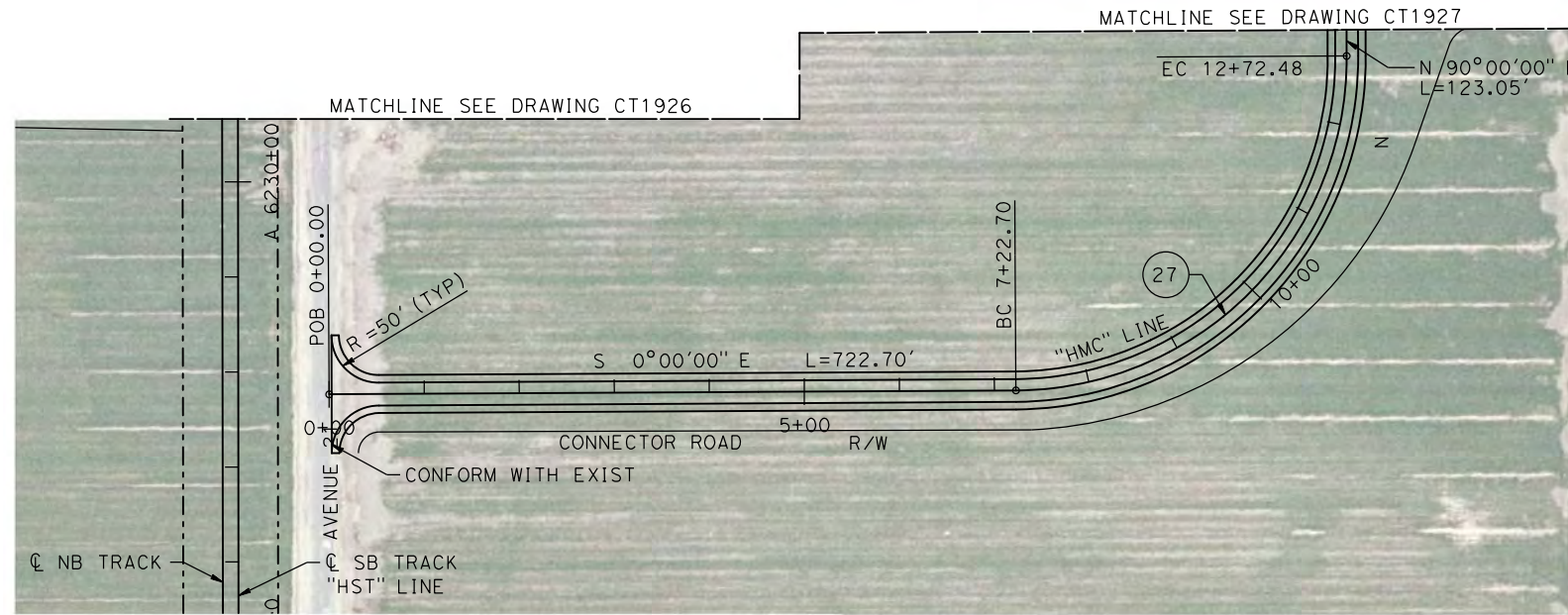
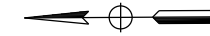


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 9 / HEMLOCK ROAD GRADE SEPARATION

CONTRACT NO.
HSR08-05
DRAWING NO.
CT1927
SCALE
AS NOTED
SHEET NO.

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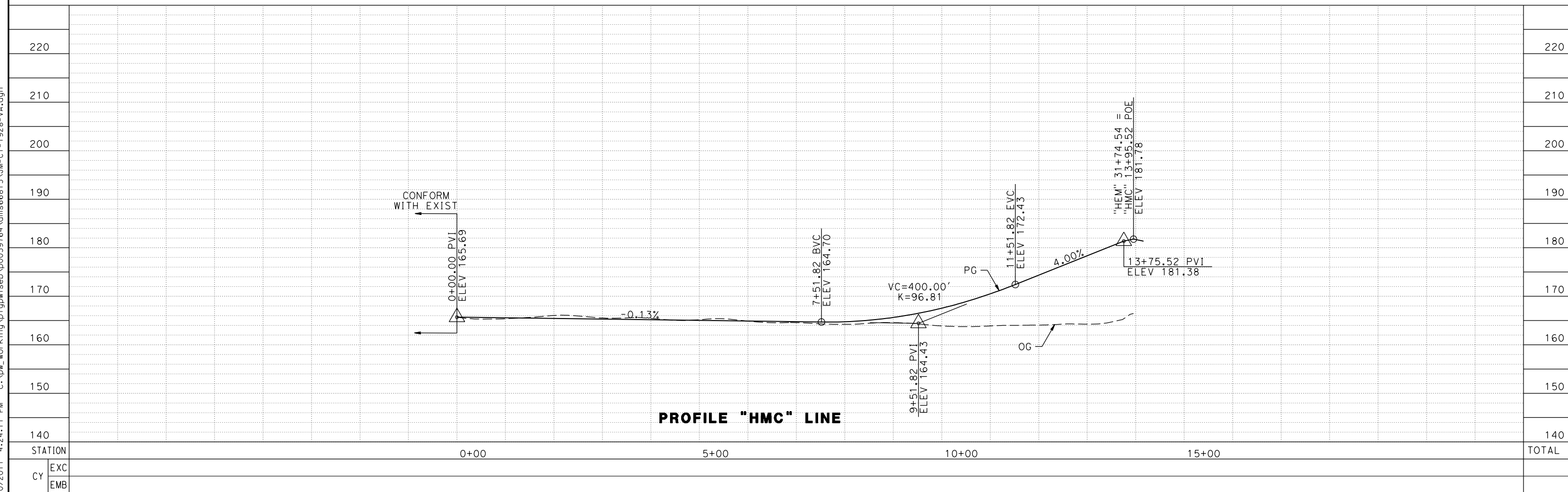
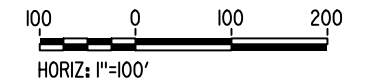
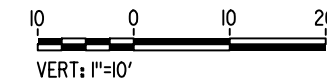
MADERA COUNTY



NOTE:

- SEE DRAWINGS CT1926 AND CT1927 FOR DETAILS OF ROAD 9 / HEMLOCK ROAD "HEM" LINE.

PLAN



PROFILE "HMC" LINE

7/20/2011 4:24:11 PM c:\pw_working\ptgwiseb\p0039764\dms66815\JM-CT-1928-VA.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.

DRAWN BY
R. BROWNE

CHECKED BY
M. SANTOS

IN CHARGE
D. WEMMER

DATE
4/15/2011

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

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 9 / HEMLOCK ROAD GRADE SEPARATION

CONTRACT NO.
HSR08-05

DRAWING NO.
CT1928

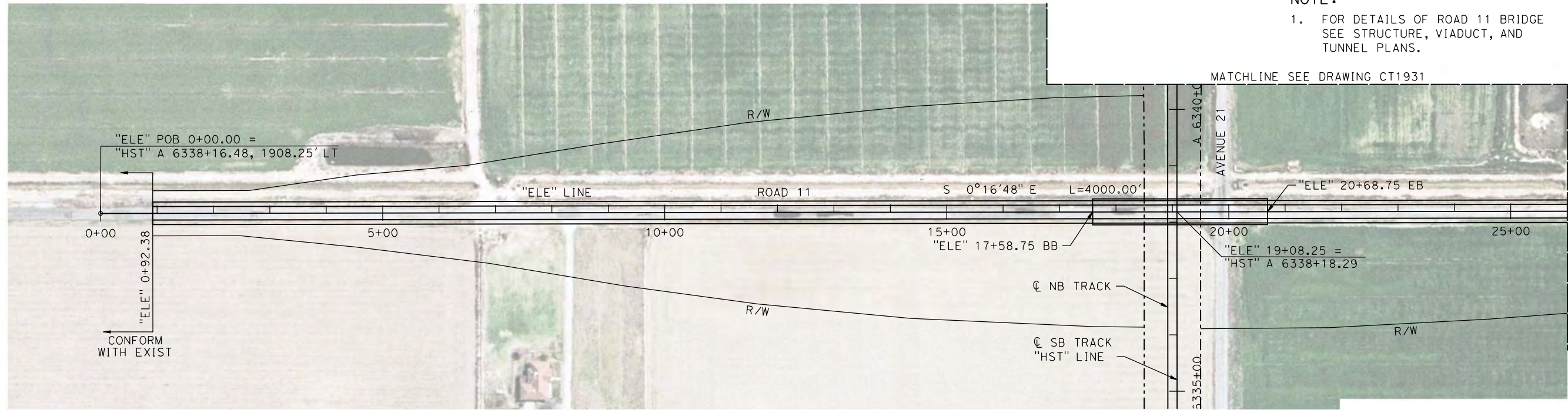
SCALE
AS NOTED

SHEET NO.

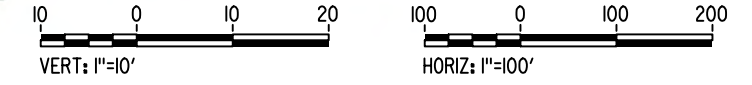
MADERA COUNTY

NOTE:

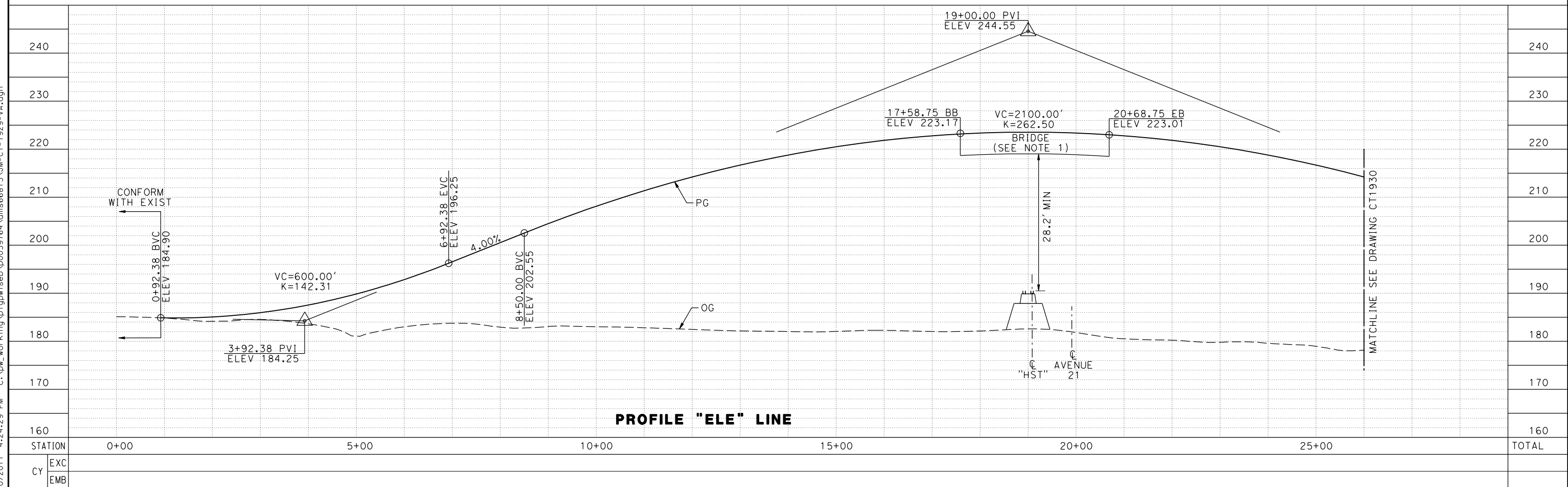
- FOR DETAILS OF ROAD 11 BRIDGE SEE STRUCTURE, VIADUCT, AND TUNNEL PLANS.



PLAN



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PROFILE "ELE" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.

DRAWN BY
R. BROWNE

CHECKED BY
M. SANTOS

IN CHARGE
D. WEMMER

DATE
4/15/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT

MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 11 GRADE SEPARATION

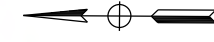
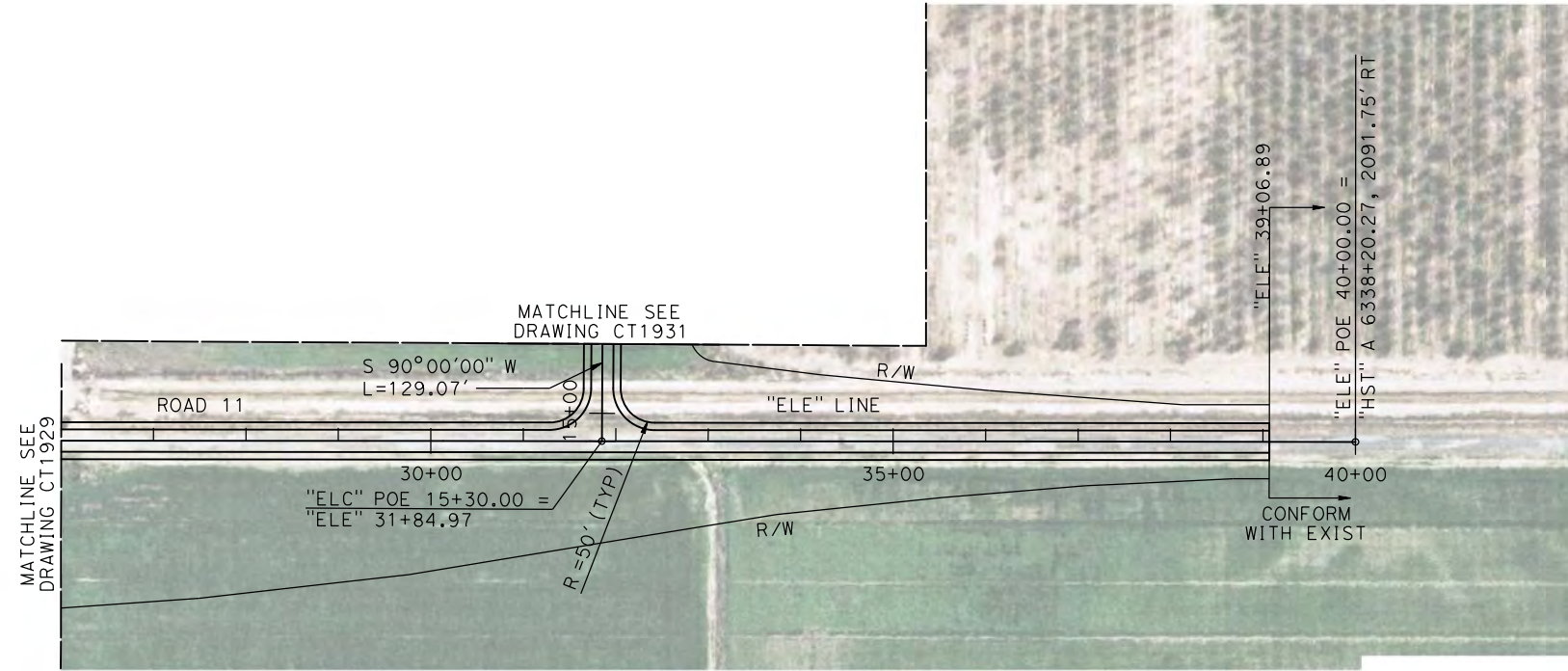
CONTRACT NO.
HSR08-05

DRAWING NO.
CT1929

SCALE
AS NOTED

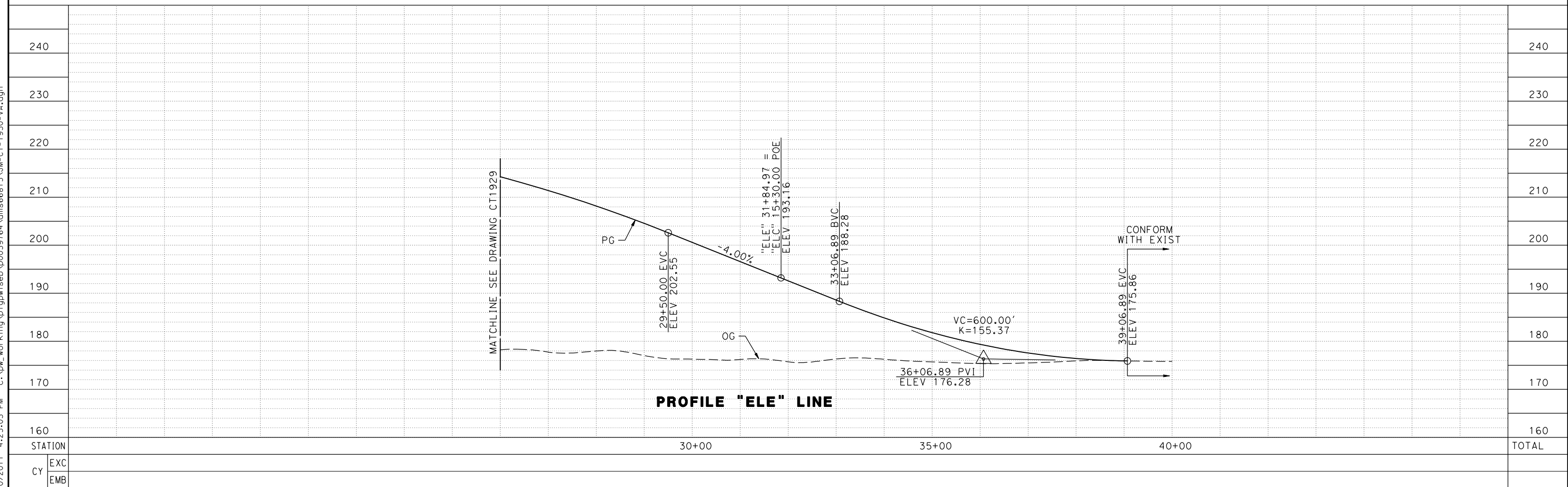
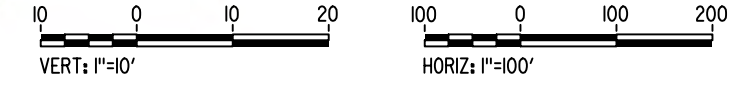
SHEET NO.

MADERA COUNTY



NOTE:
1. SEE DRAWING CT1931 FOR DETAILS OF ROAD 11 TO AVENUE 21 CONNECTOR ROAD "ELC" LINE.

PLAN



PROFILE "ELE" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.
DRAWN BY
R. BROWNE
CHECKED BY
M. SANTOS
IN CHARGE
D. WEMMER
DATE
4/15/2011

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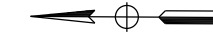
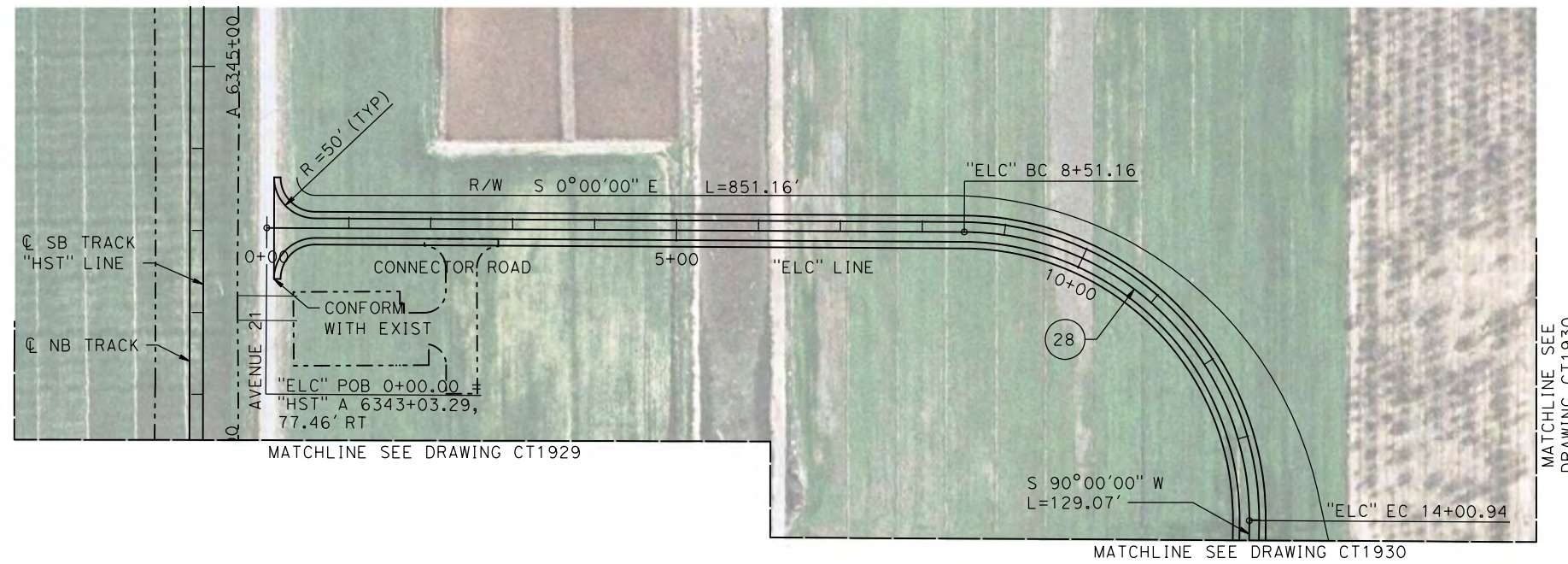


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 11 GRADE SEPARATION

CONTRACT NO.
HSR08-05
DRAWING NO.
CT1930
SCALE
AS NOTED
SHEET NO.

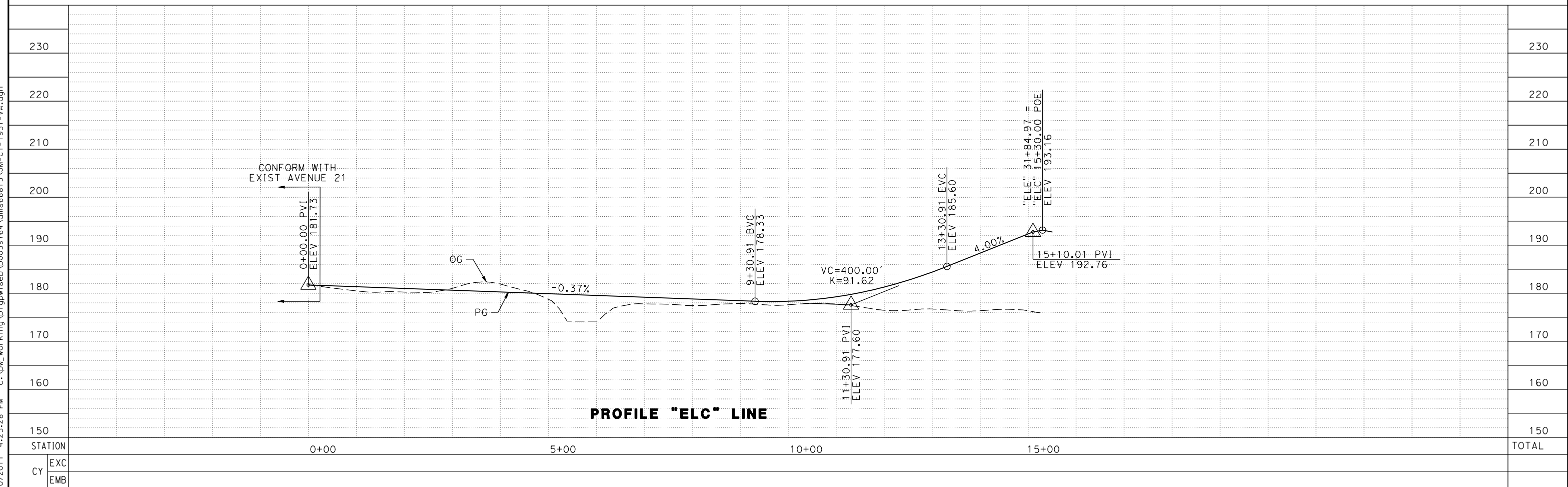
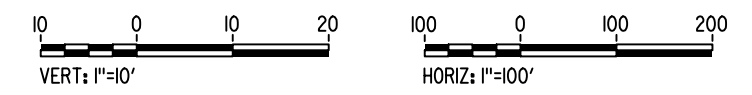
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MADERA COUNTY



NOTE:
1. SEE DRAWINGS CT1929 AND CT1930 FOR DETAILS OF ROAD 11 "ELE" LINE.

PLAN



PROFILE "ELC" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.
DRAWN BY
R. BROWNE
CHECKED BY
M. SANTOS
IN CHARGE
D. WEMMER
DATE
4/15/2011

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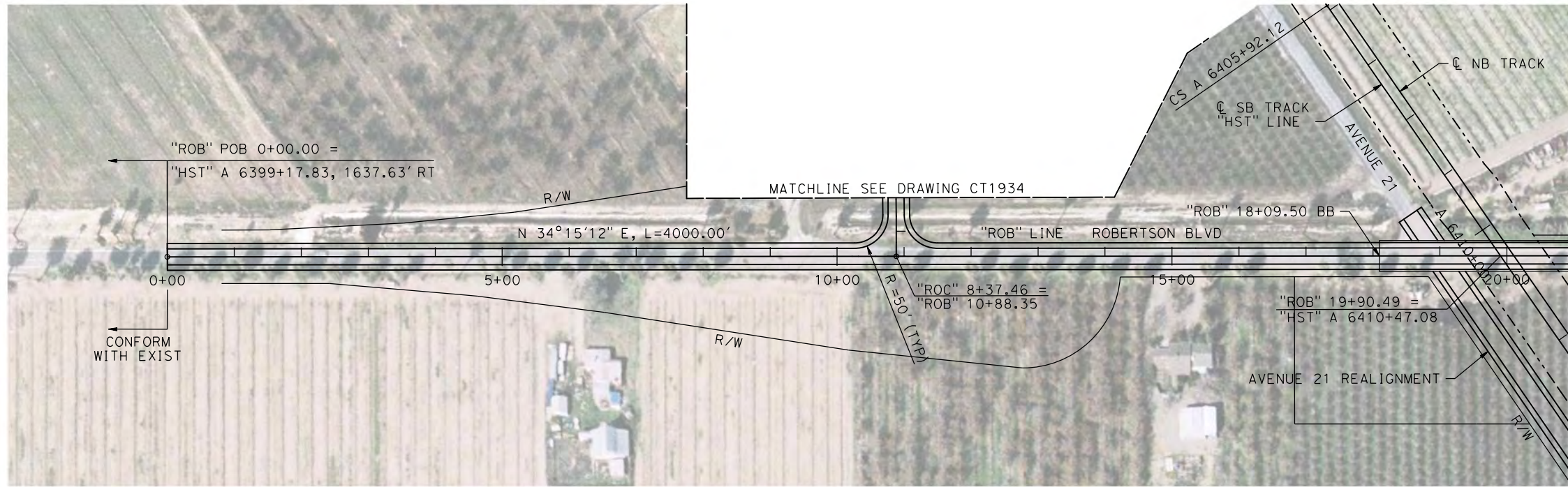


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 11 GRADE SEPARATION

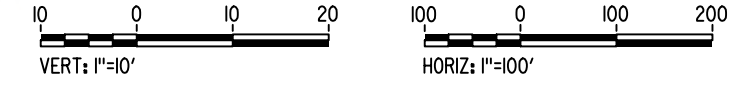
CONTRACT NO.
HSR08-05
DRAWING NO.
CT1931
SCALE
AS NOTED
SHEET NO.

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MADERA COUNTY

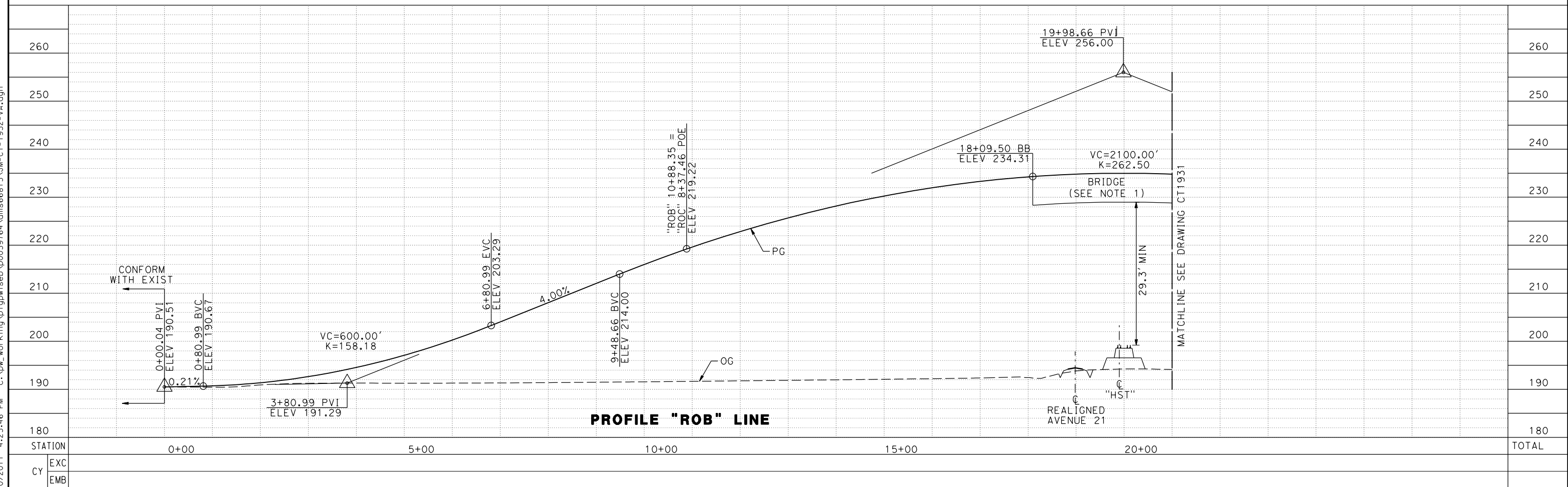


PLAN



- NOTE:**
- FOR DETAILS OF ROBERTSON BLVD BRIDGE SEE STRUCTURE, VIADUCT, AND TUNNEL PLANS.
 - SEE DRAWING CT1934 FOR DETAILS OF ROBERTSON BLVD TO AVENUE 21 CONNECTOR ROAD "ROB" LINE.

7/20/2011 4:25:46 PM c:\pw_working\ptg\wiseb\p0039764\dms66815\JM-CT-1932-VA.dgn



PROFILE "ROB" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.

DRAWN BY
R. BROWNE

CHECKED BY
M. SANTOS

IN CHARGE
D. WEMMER

DATE
4/15/2011

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

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROBERTSON BLVD GRADE SEPARATION

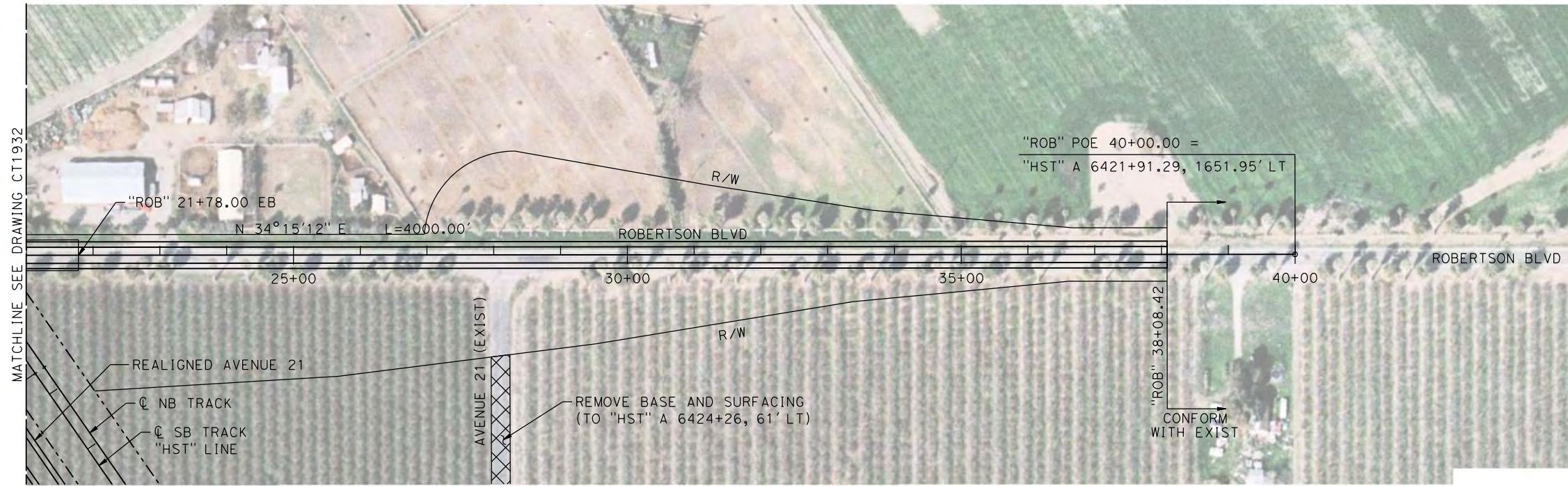
CONTRACT NO.
HSR08-05

DRAWING NO.
CT1932

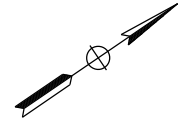
SCALE
AS NOTED

SHEET NO.

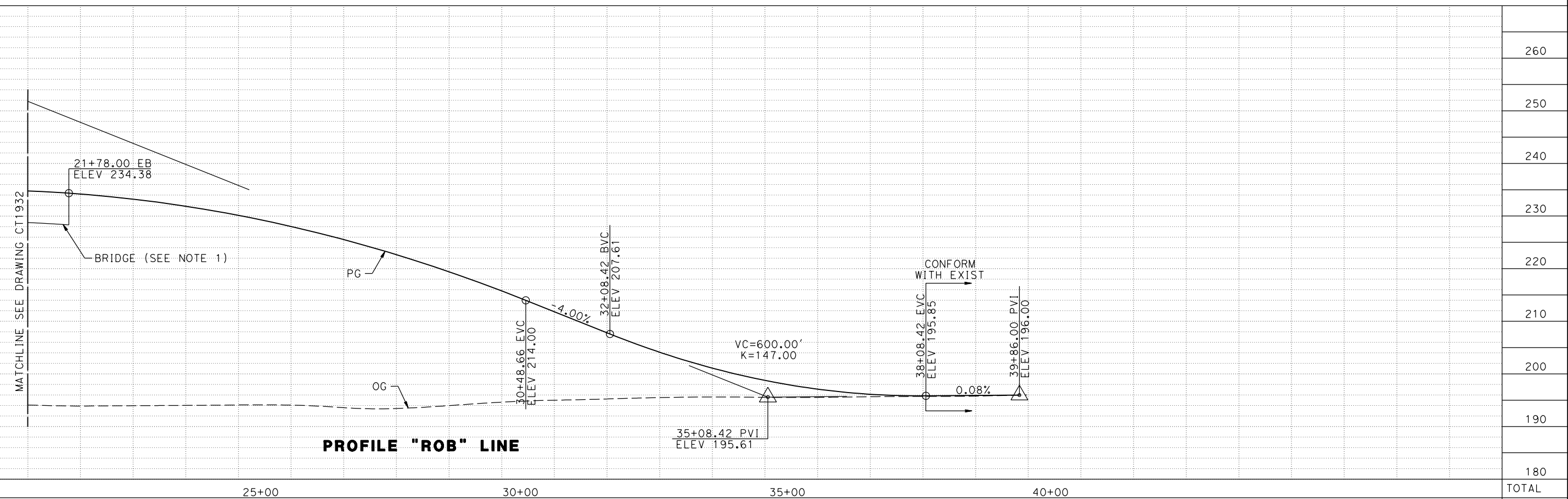
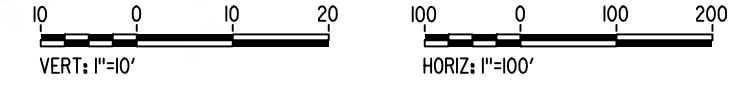
MADERA COUNTY



NOTE:
1. FOR DETAILS OF ROBERTSON BLVD BRIDGE SEE STRUCTURE, VIADUCT AND TUNNEL PLANS.



PLAN



PROFILE "ROB" LINE

7/20/2011 4:26:22 PM c:\pwworking\ptg\pwiseb\p0039764\dms66815\JM-CT-1933-VA.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.
DRAWN BY
R. BROWNE
CHECKED BY
M. SANTOS
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
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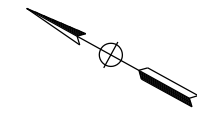
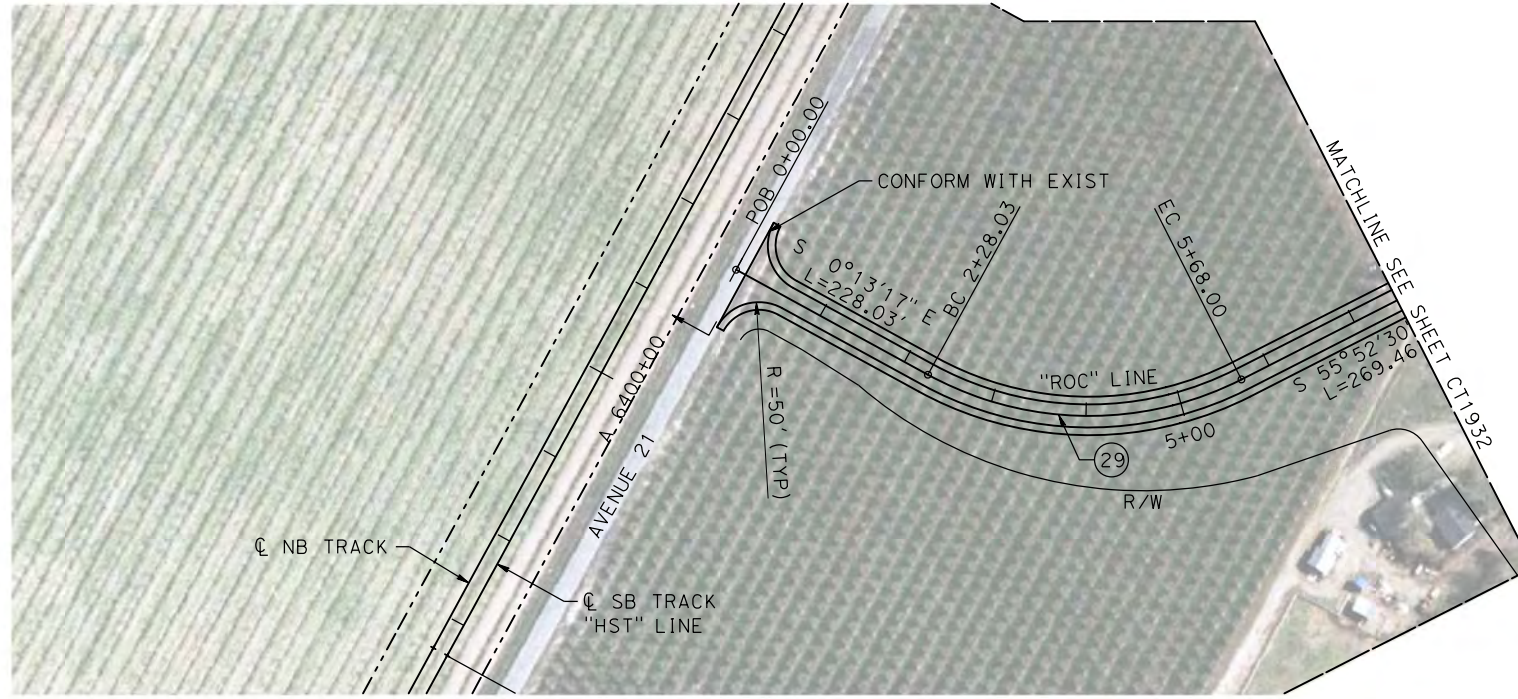
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROBERTSON BLVD GRADE SEPARATION

CONTRACT NO.
HSR08-05
DRAWING NO.
CT1933
SCALE
AS NOTED
SHEET NO.

MADERA COUNTY



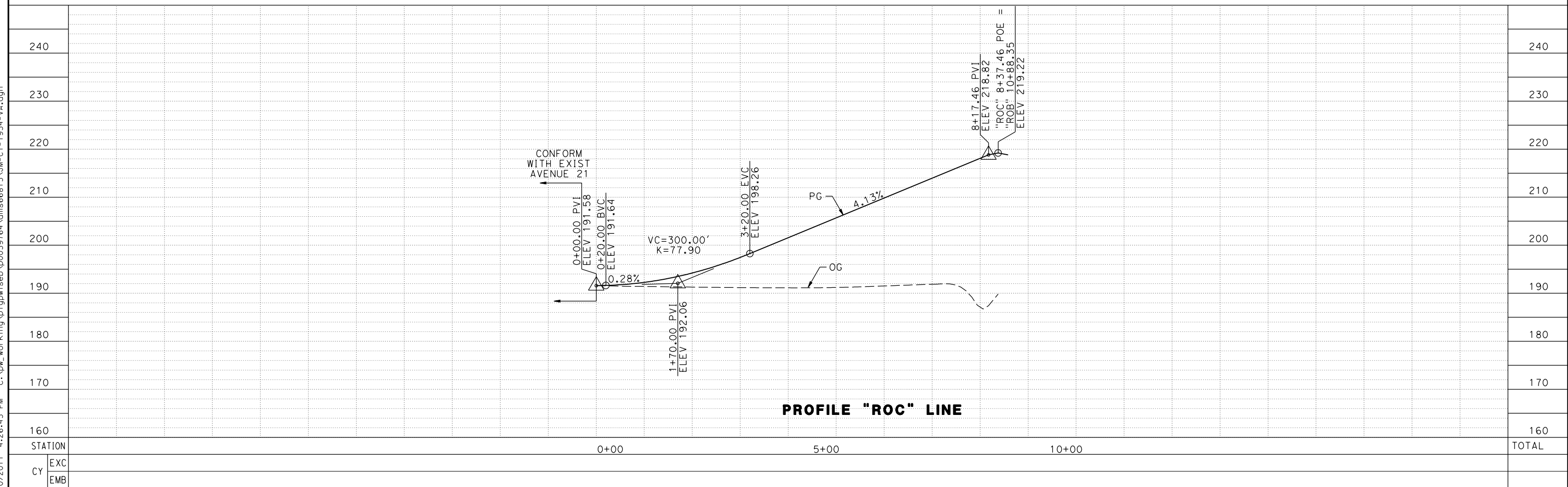
NOTE:

- SEE DRAWINGS CT1932 AND CT1933 FOR DETAILS OF ROBERTSON BLVD "ROB" LINE.



PLAN

PROFILE "ROC" LINE



7/20/2011 4:26:45 PM c:\pw_working\ptg\pwiseb\p0039764\dms66815\JM-CT-1934-VA.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.
 DRAWN BY
R. BROWNE
 CHECKED BY
M. SANTOS
 IN CHARGE
D. WEMMER
 DATE
4/15/2011

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CONSTRUCTION**

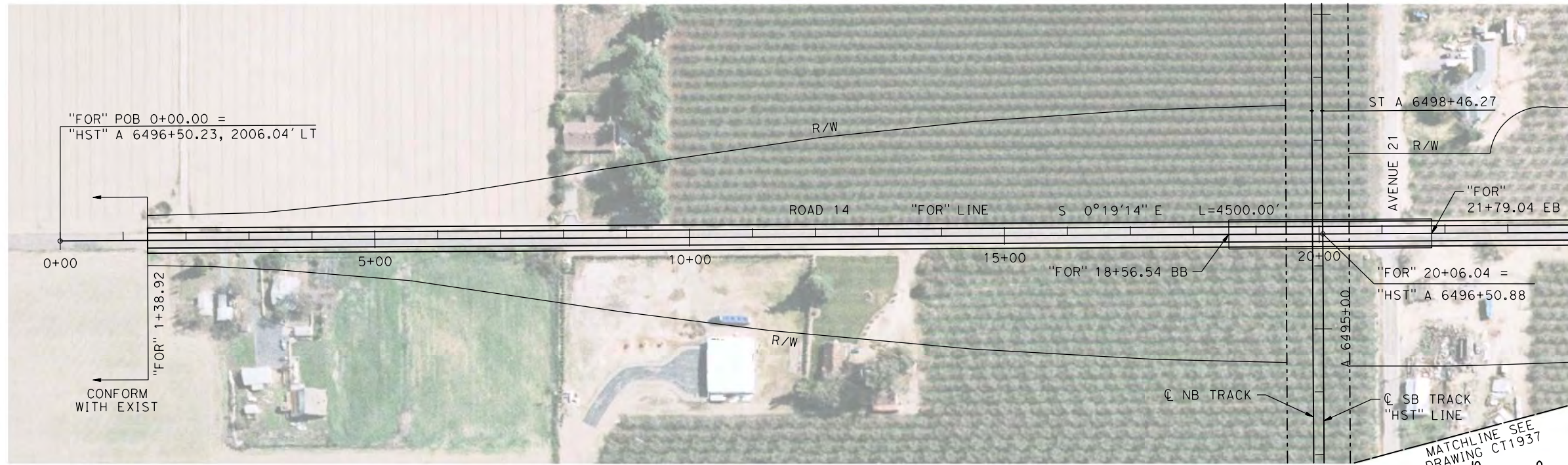


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
 AVENUE 21
 PLAN AND PROFILE
 ROBERTSON BLVD GRADE SEPARATION

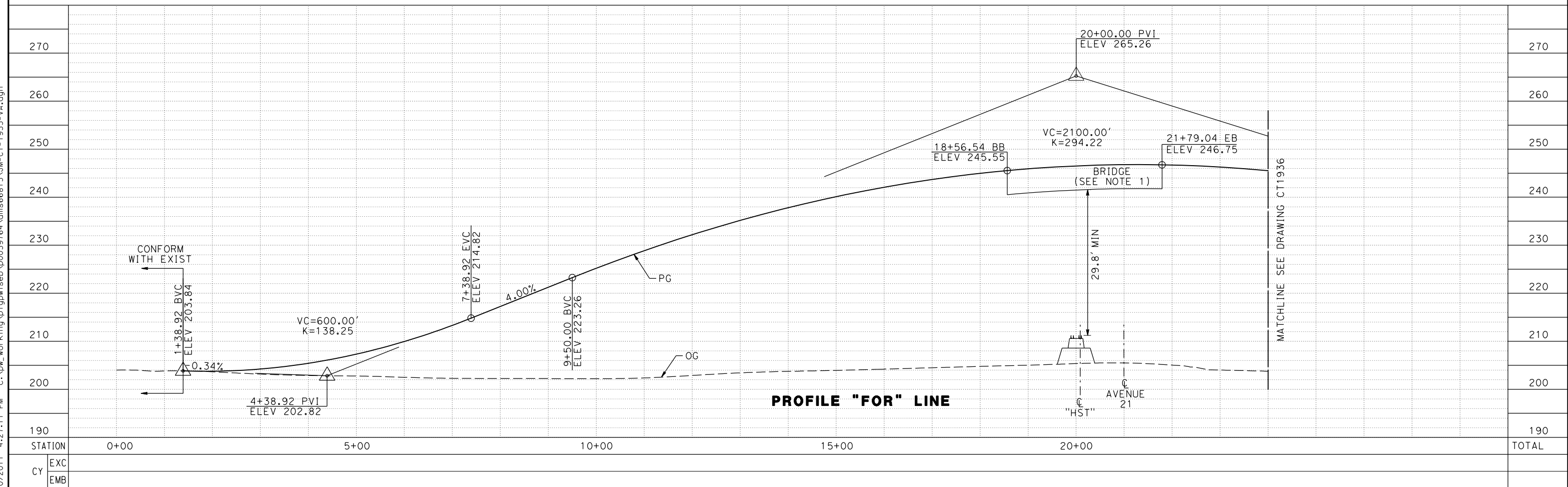
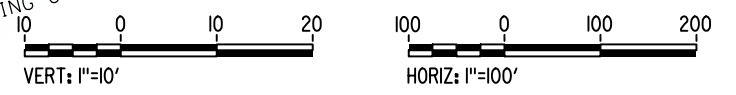
CONTRACT NO.
HSR08-05
 DRAWING NO.
CT1934
 SCALE
AS NOTED
 SHEET NO.

MADERA COUNTY



NOTE:
1. FOR DETAILS OF ROAD 14 BRIDGE SEE STRUCTURE, VIADUCT, AND TUNNEL PLANS.

PLAN



PROFILE "FOR" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.
DRAWN BY
R. BROWNE
CHECKED BY
M. SANTOS
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
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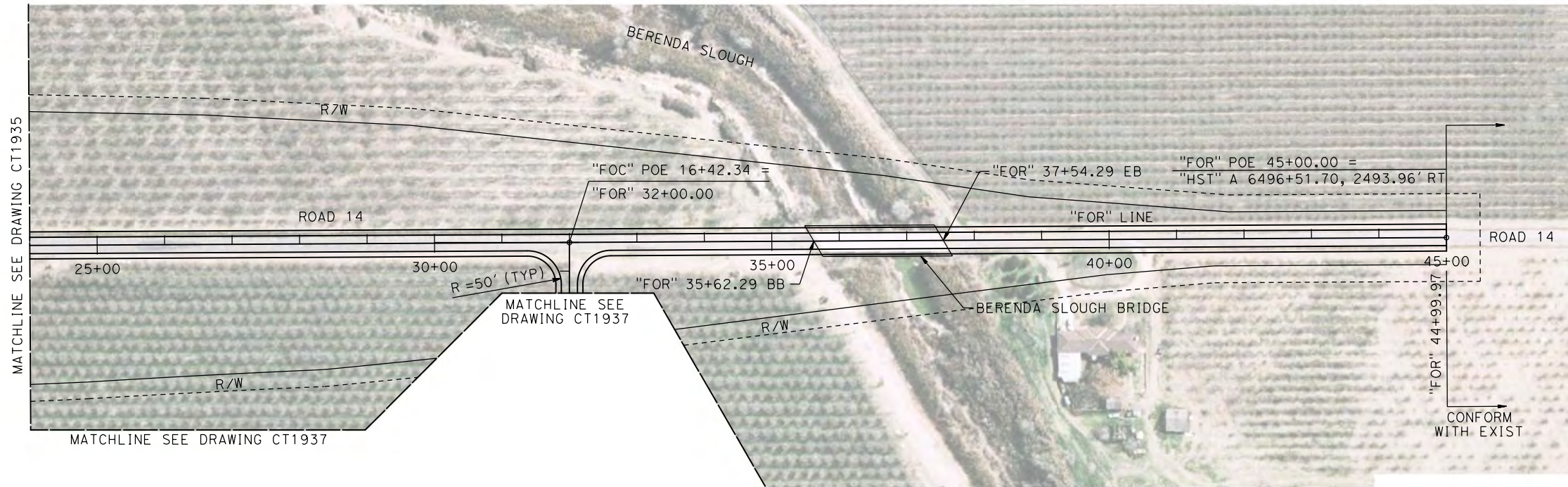


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 14 GRADE SEPARATION

CONTRACT NO.
HSR08-05
DRAWING NO.
CT1935
SCALE
AS NOTED
SHEET NO.

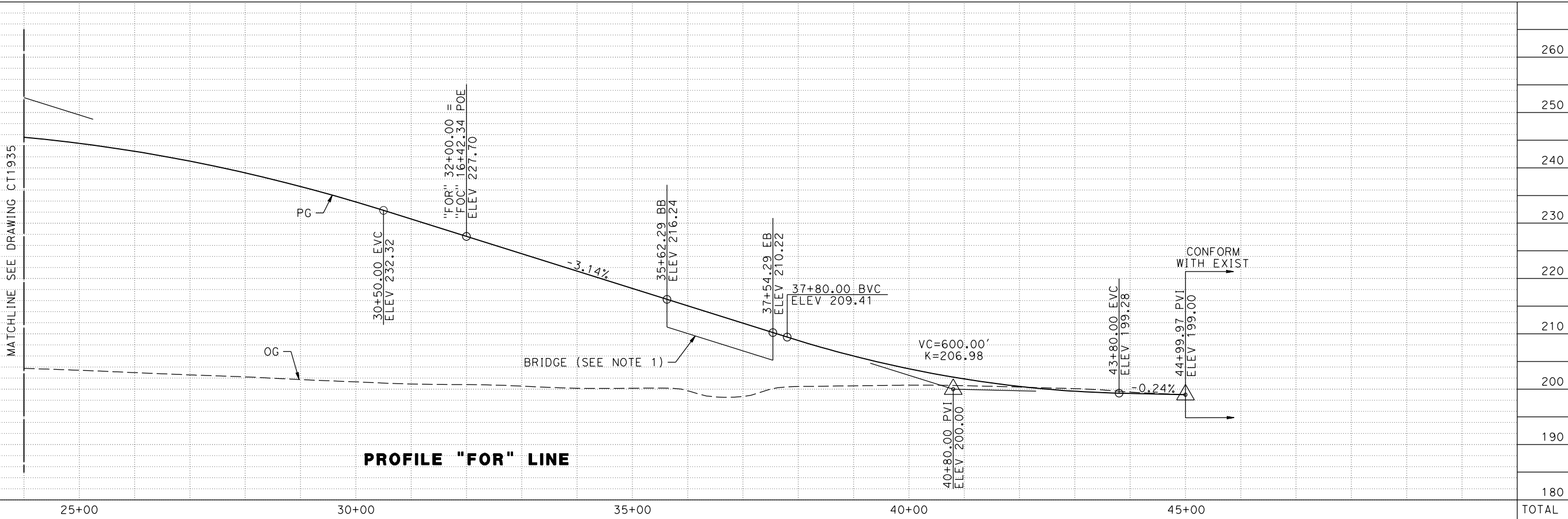
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MADERA COUNTY



- NOTE:**
1. FOR BERENDA SLOUGH BRIDGE SEE STRUCTURE, VIADUCT, AND TUNNEL PLANS.
 2. SEE DRAWING CT1937 FOR DETAILS OF ROAD 14 TO AVENUE 21 CONNECTOR ROAD "FOC" LINE.

PLAN



PROFILE "FOR" LINE

7/20/2011 4:27:27 PM c:\pw_working\ptgwiseb\p0039764\dms66815\JM-CT-1936-VA.dgn

STATION	25+00	30+00	35+00	40+00	45+00	TOTAL
EXC						
EMB						

DESIGNED BY
A. S. M.
DRAWN BY
R. BROWNE
CHECKED BY
M. SANTOS
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
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USE ONLY**

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CONSTRUCTION**

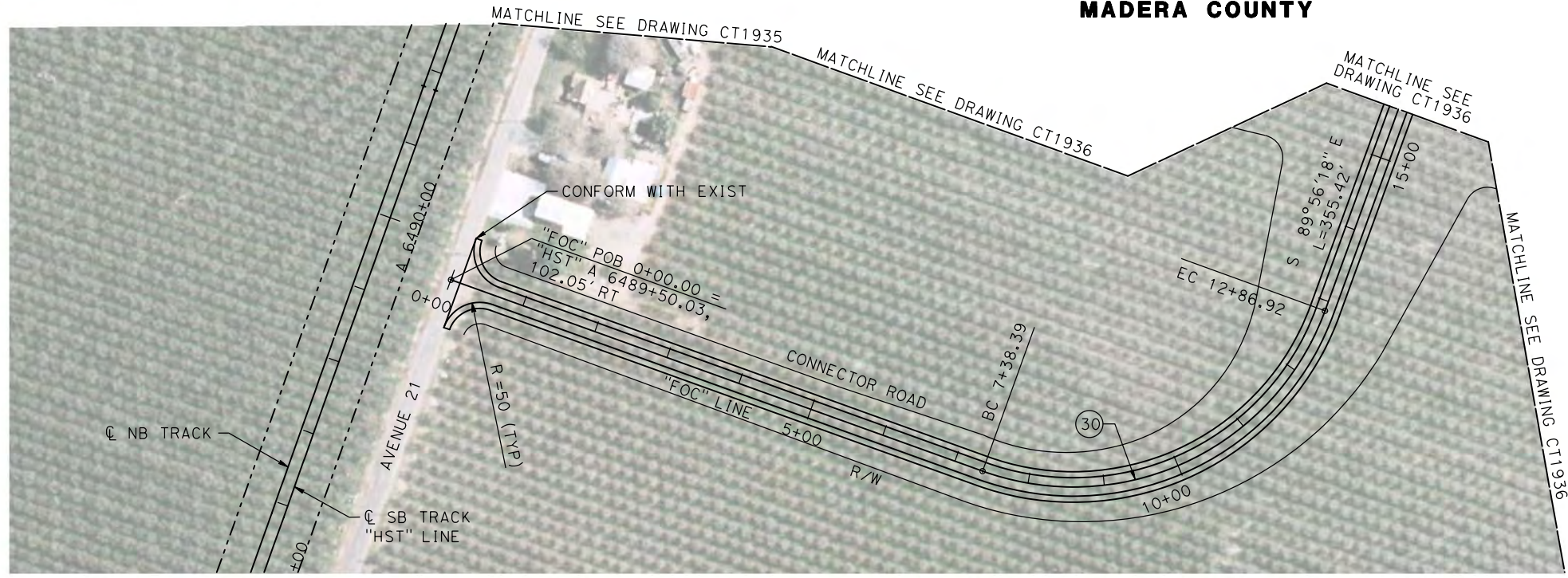


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 14 GRADE SEPARATION

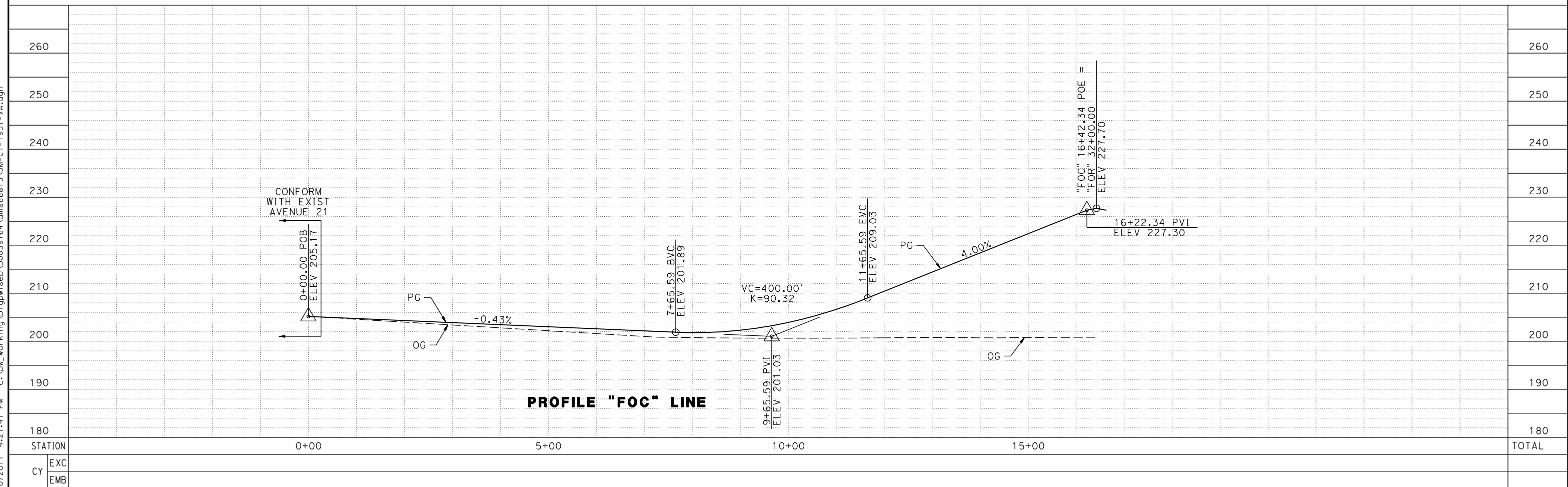
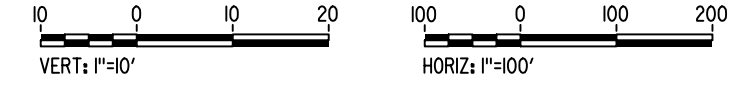
CONTRACT NO.
HSR08-05
DRAWING NO.
CT1936
SCALE
AS NOTED
SHEET NO.

MADERA COUNTY



PLAN

NOTE:
1. SEE DRAWINGS CT1935 AND CT1936 FOR DETAILS OF ROAD 14 "FOR" LINE.



PROFILE "FOC" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. S. M.
DRAWN BY
R. BROWNE
CHECKED BY
M. SANTOS
IN CHARGE
D. WEMMER
DATE
4/15/2011

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USE ONLY**

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

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
ROAD 14 GRADE SEPARATION

CONTRACT NO.
HSR08-05
DRAWING NO.
CT1937
SCALE
AS NOTED
SHEET NO.

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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 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 2
		B0111-A	BNSF - AVE 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 2 OF 2
		B0112-A	BNSF - AVE 21 WYE	GENERAL	ABBREVIATIONS, SYMBOLS & NOTES	SHEET 1 OF 1
		B0115-A	BNSF - AVE 21 WYE		INDEX MAP	SHEET 1 OF 4
		B0116-A	BNSF - AVE 21 WYE		INDEX MAP	SHEET 2 OF 4
		B0119-A	BNSF - AVE 21 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 3 OF 4
		B0120-A	BNSF - AVE 21 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 4 OF 4
		CT0121-A	BNSF - AVE 21 WYE	TYPICAL CROSS SECTIONS	GRADE SEPARATIONS	SHEET 1 OF 2
		CT0122-A	BNSF - AVE 21 WYE	TYPICAL CROSS SECTIONS	GRADE SEPARATIONS	SHEET 2 OF 2
		CT5000-A	BNSF - AVE 21 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH	SHEET 1 OF 2
		CT5000-B	BNSF - AVE 21 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH	GENERAL STAGE CONSTRUCTION & TRAFFIC HANDLING APPROACH	SHEET 2 OF 2
A1 - AVE 21 WYE (LAYOUT)						
43		CT2000-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 1 OF 4
43		CT2001-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 2 OF 4
43		CT2002-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 3 OF 4
43		CT2003-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 4 OF 4
44		CT2004-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 1 OF 3
44		CT2005-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 2 OF 3
44		CT2006-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 3 OF 3
A1 - AVE 21 WYE (SUPERELEVATION TEMPLATES)						
		CT0996-A	BNSF - AVE 21 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 1 OF 4
		CT0997-A	BNSF - AVE 21 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 2 OF 4
		CT0998-A	BNSF - AVE 21 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		CT0999-A	BNSF - AVE 21 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
A1 - AVE 21 WYE (PROFILES)						
43		CT3000-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 1 OF 4
43		CT3001-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 2 OF 4
43		CT3002-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 3 OF 4
43		CT3003-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 4 OF 4
44		CT3004-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SR 145	PROFILE	SHEET 1 OF 3
44		CT3005-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SR 145	PROFILE	SHEET 2 OF 3
44		CT3006-A	BNSF MAIN LINE - AVE 21 WYE	GRADE SEPARATION - SR 145	PROFILE	SHEET 3 OF 3
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	
		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	

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

BNSF - AVE 21
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 2

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
		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	

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

BNSF - AVE 21
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 VELOCITY, DESIGN SPEED

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

 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
 - - - 0 ——— FUEL LINE
 - - - TC ——— TELEPHONE LINE
 ——— P12 ——— PETROLEUM LINE (12")
 ——— (OH) ——— OVERHEAD
 ——— NORTH ARROW
 ▲ PVI
 ——— (UG) ——— UNDERGROUND LINE

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R. LI
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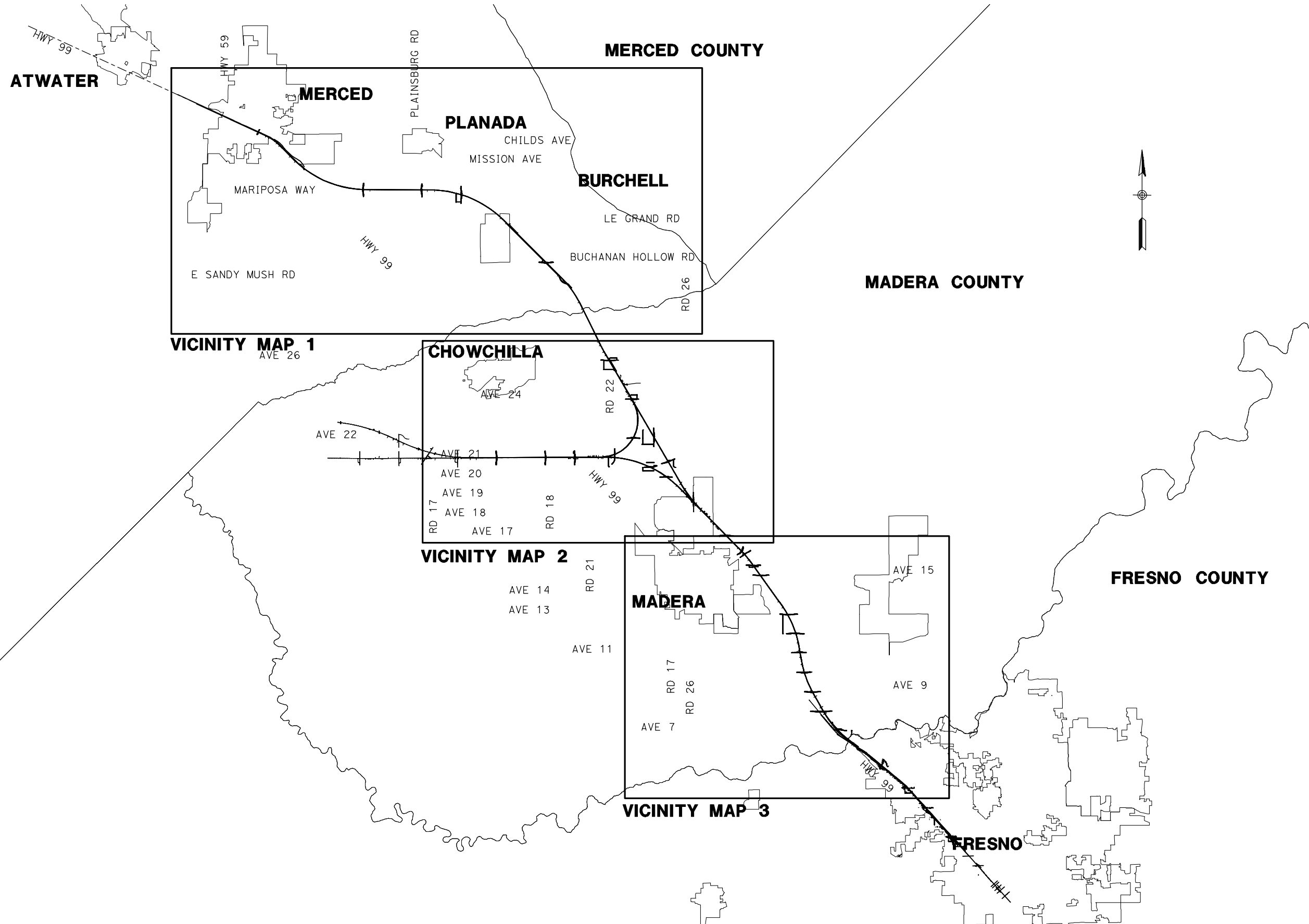


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
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BNSF - AVE 21 WYE
 GENERAL
 ABBREVIATIONS, SYMBOLS & NOTES
 SHEET 1 OF 1

CONTRACT NO.
HSR06-007
 DRAWING NO.
B0112-A
 SCALE
NO SCALE
 SHEET NO.
OF

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CHECKED BY
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IN CHARGE
A. BOONE
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MERCED TO FRESNO**
BNSF - AVE 21 WYE

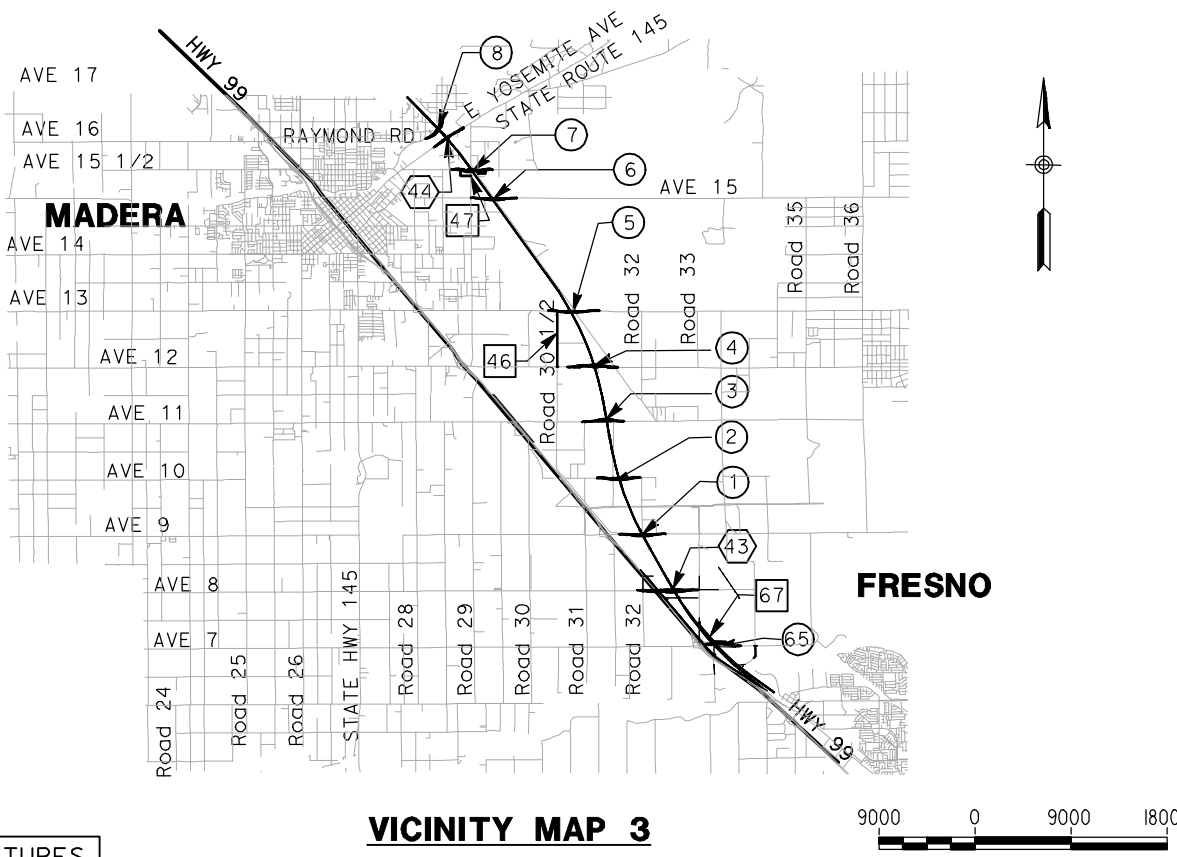
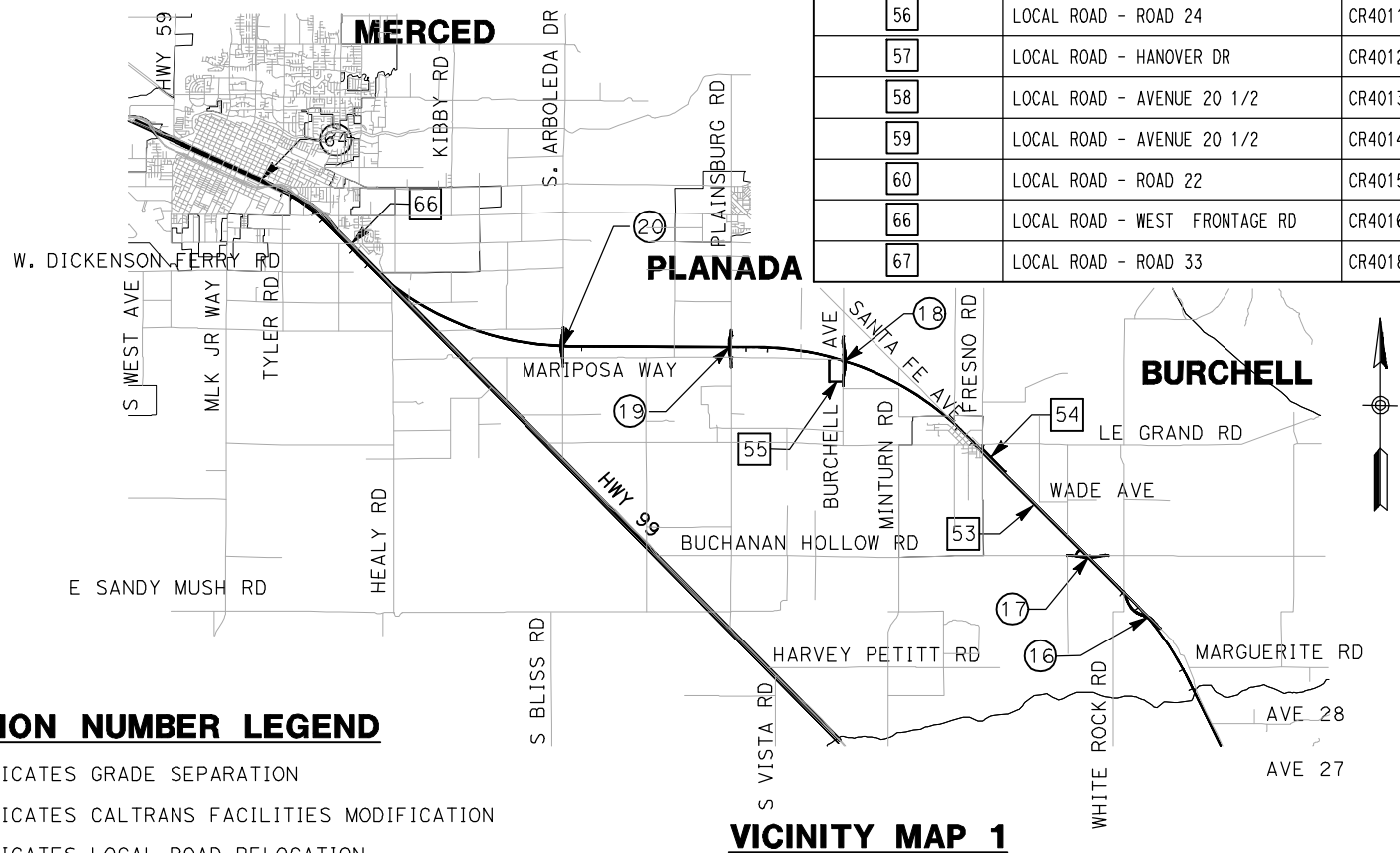
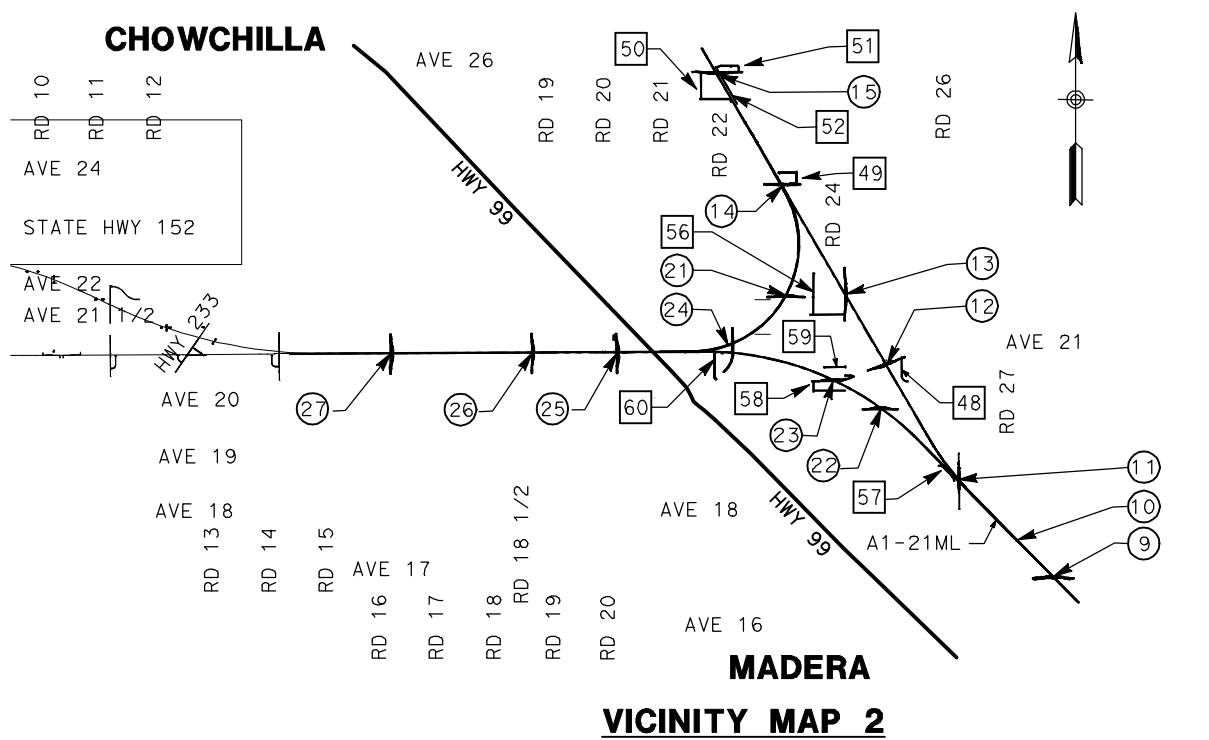
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SHEET 1 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
B0115-A
SCALE
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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
14	UNDERPASS - AVENUE 24	CT0041-A - CT0043-A	ST1014
15	GRADE SEPARATION - AVENUE 26	CT0044-A - CT0047-A	ST1015
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
21	GRADE SEPARATION - AVENUE 22	CT0063-A - CT0065-A	ST1021

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
22	GRADE SEPARATION - AVENUE 20	CT0066-A - CT0068-A	ST1022
23	GRADE SEPARATION - AVENUE 20 1/2	CT0069-A - CT0071-A	ST1023
24	UNDERPASS - ROAD 22	CT0073-A - CT0075-A	
25	GRADE SEPARATION - ROAD 20	CT0076-A - CT0078-A	ST1026
26	GRADE SEPARATION - ROAD 18 1/2	CT0079-A - CT0081-A	ST1027
27	GRADE SEPARATION - ROAD 16	CT0082-A - CT0084-A	ST1028
64	GRADE SEPARATION - G STREET	CT0149	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	
47	LOCAL ROAD - ROAD 29	CR4001-A	
48	LOCAL ROAD - AVENUE 20 1/2	CR4002-A	
49	LOCAL ROAD - SHARON	CR4003-A	
50	LOCAL ROAD - AVENUE 26	CR4004-A	
51	LOCAL ROAD - AVENUE 26	CR4005-A	
52	LOCAL ROAD - SANTA FE AVE	CR4006-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	
56	LOCAL ROAD - ROAD 24	CR4011-A	
57	LOCAL ROAD - HANOVER DR	CR4012-A	
58	LOCAL ROAD - AVENUE 20 1/2	CR4013-A	
59	LOCAL ROAD - AVENUE 20 1/2	CR4014-A	
60	LOCAL ROAD - ROAD 22	CR4015-A	
66	LOCAL ROAD - WEST FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-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

9000 0 9000 18000
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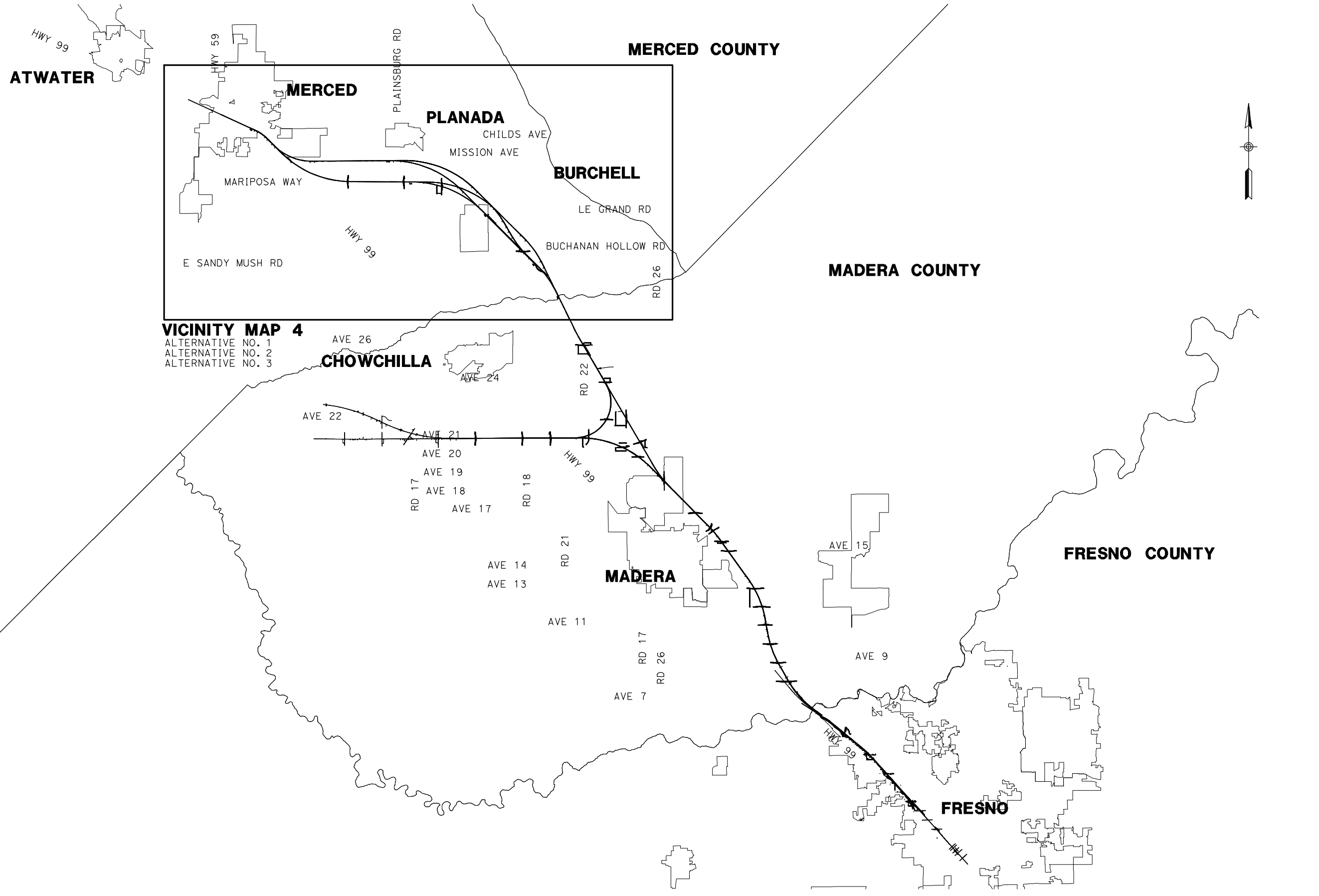


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 21 WYE

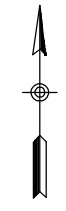
INDEX MAP
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. B0116-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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T. WALTZ
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A. SILVER
 IN CHARGE
A. BOONE
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 21 WYE
 MC - ALTERNATIVES NO. 1, NO. 2, & NO. 3

INDEX MAP
 SHEET 3 OF 4

CONTRACT NO.
HSR06-007

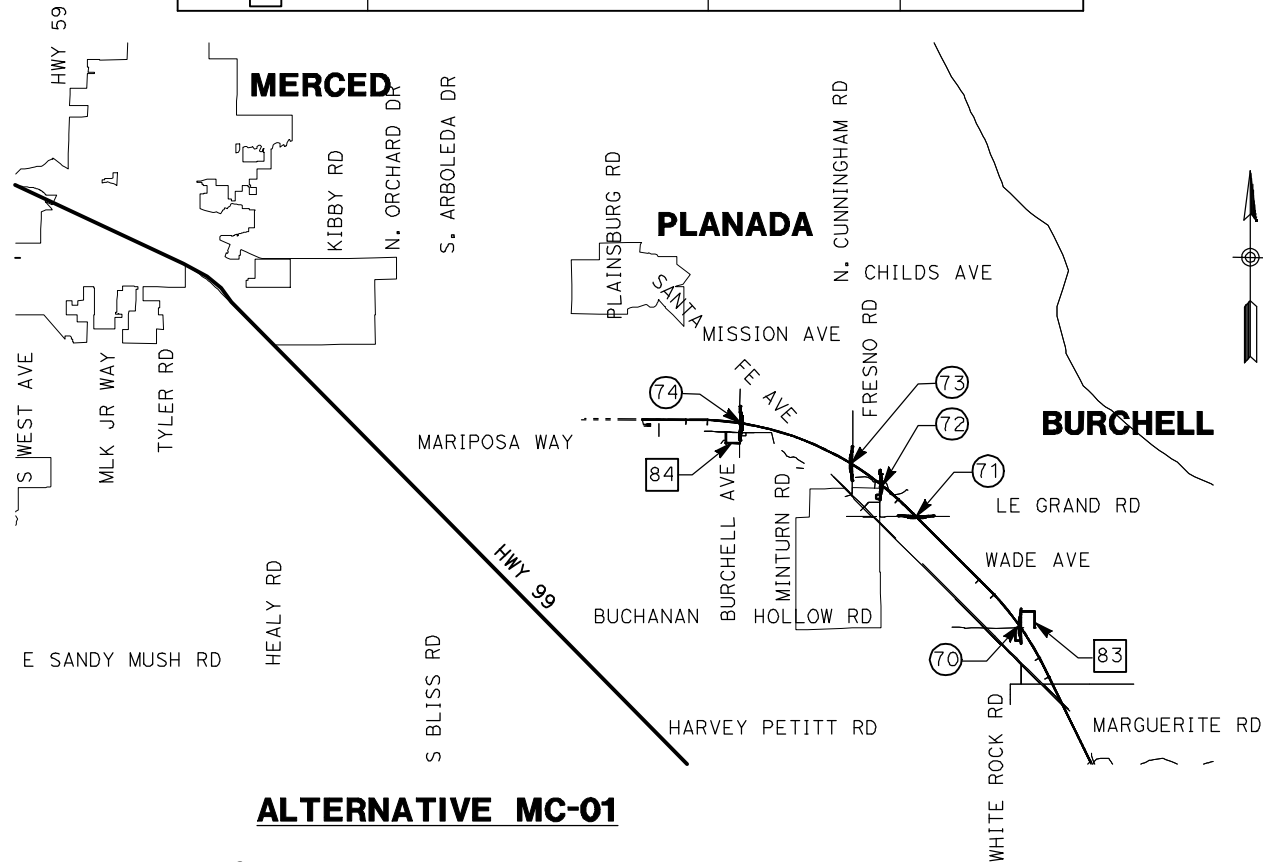
DRAWING NO.
B0119-A

SCALE
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SHEET NO.
OF

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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 RD	CR4200-A - CR4201-A	
84	LOCAL ROAD - BURCHELL AVE	CR4202-A	
85	LOCAL ROAD - FRESNO RD	CR4255-A	
86	LOCAL ROAD - SANTA FE AVE	CR4300-A - CR4301-A	

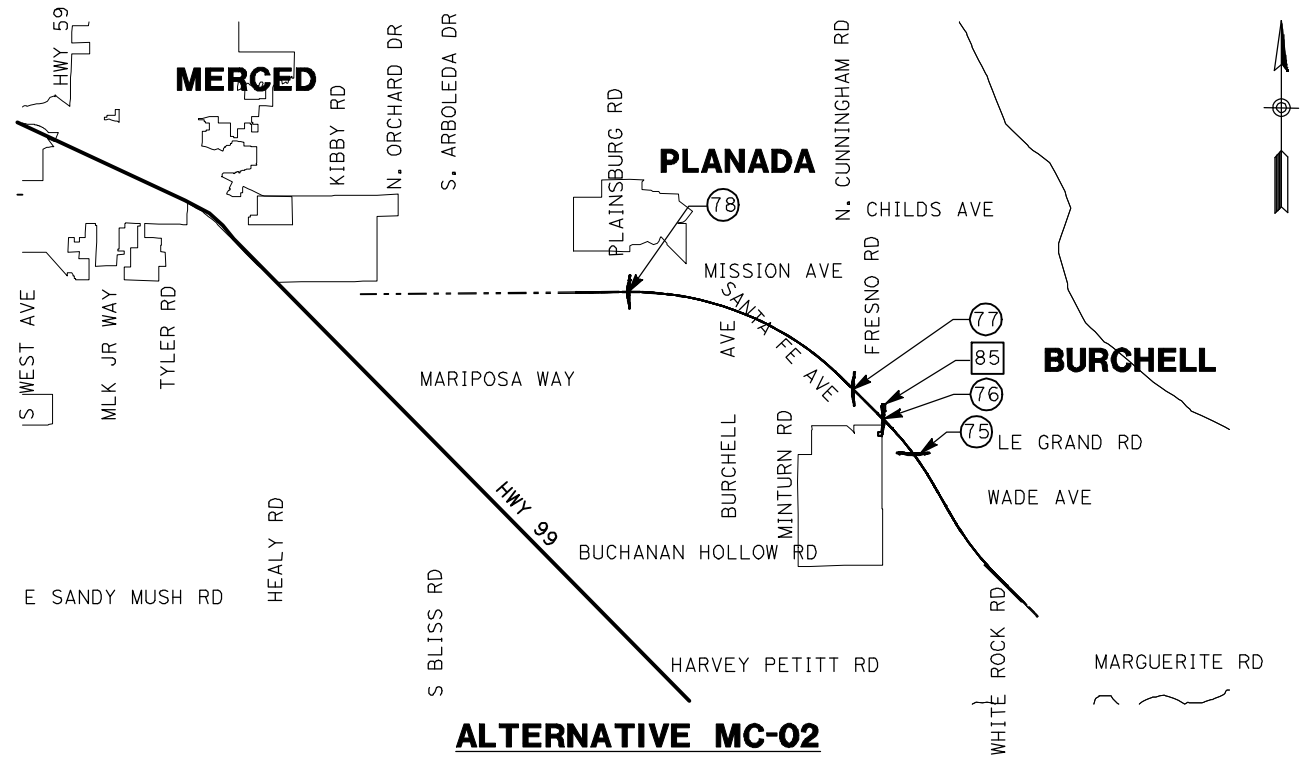


ALTERNATIVE MC-01

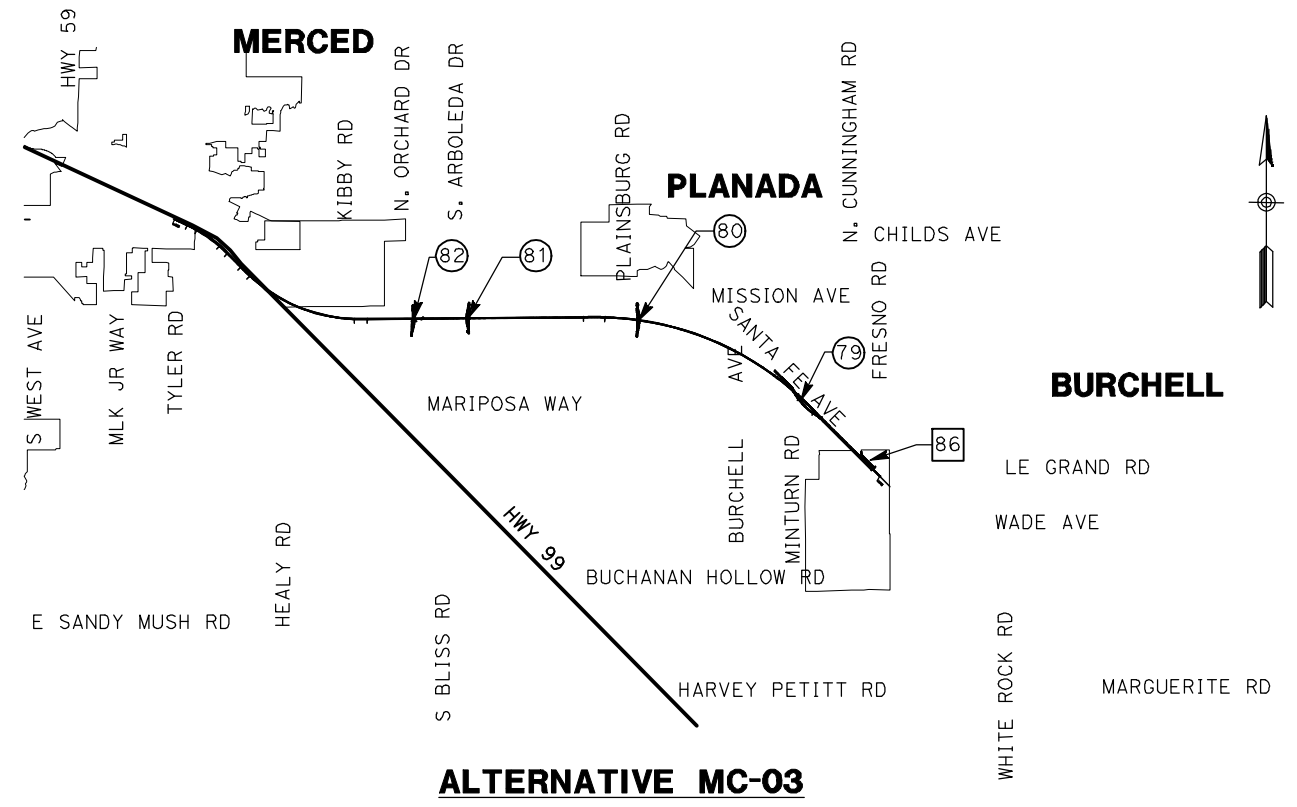
LOCATION NUMBER LEGEND

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

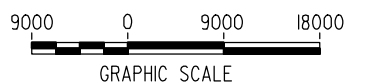
FOR ROADWAY STRUCTURES
SEE STRUCTURAL
INDEX MAPS



ALTERNATIVE MC-02



ALTERNATIVE MC-03



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
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 21 WYE
MC - ALTERNATIVES NO. 1, NO. 2, & NO. 3

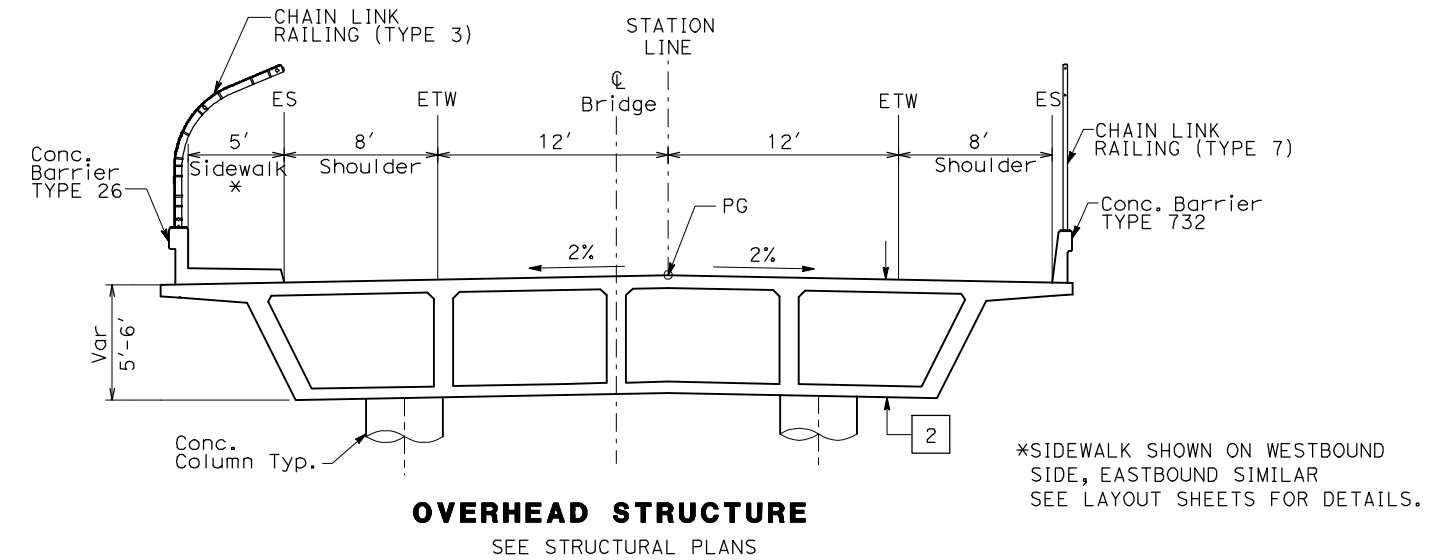
INDEX MAP
SHEET 4 OF 4

CONTRACT NO.	HSR06-007
DRAWING NO.	B0120-A
SCALE	NO SCALE
SHEET NO.	### OF ###

5/1/2011 12:23:53 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave21\Volume 2A - Ave 21 Wye Caltrans Facilities\Typical Section\WF-CT-0121-A.dgn

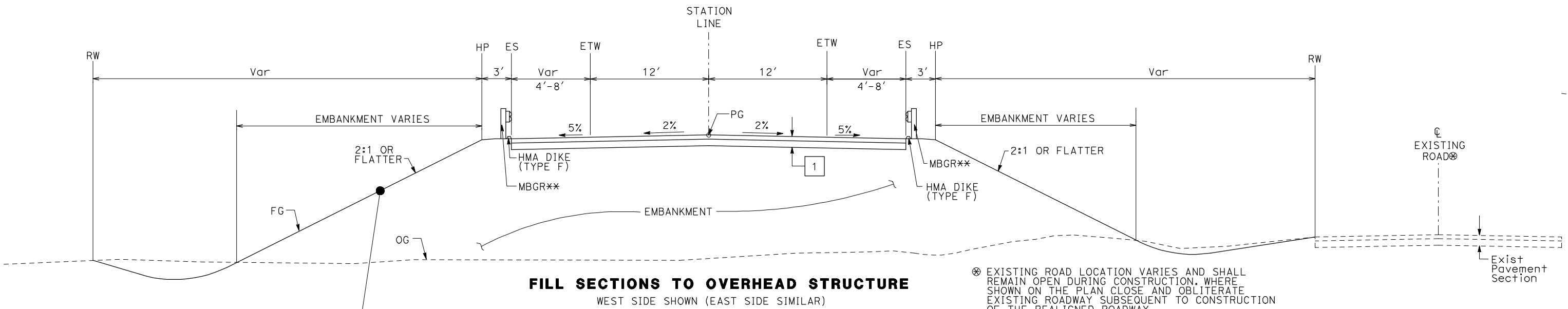
NOTES:

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.



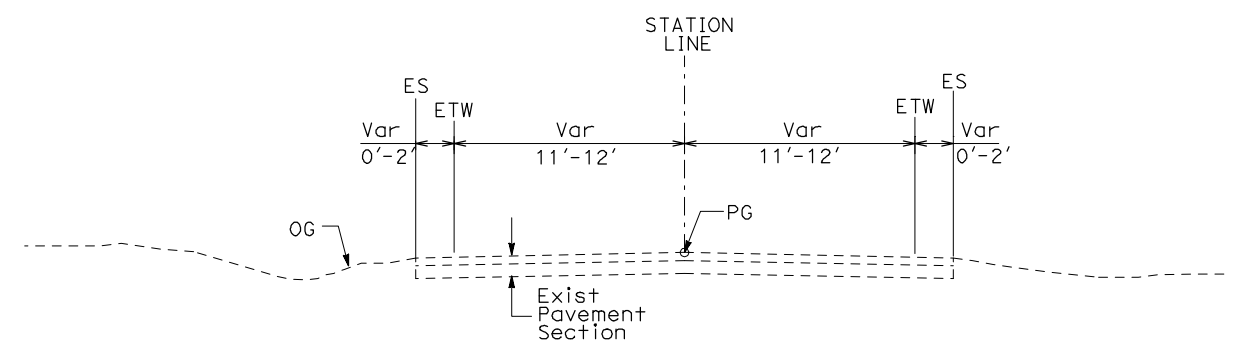
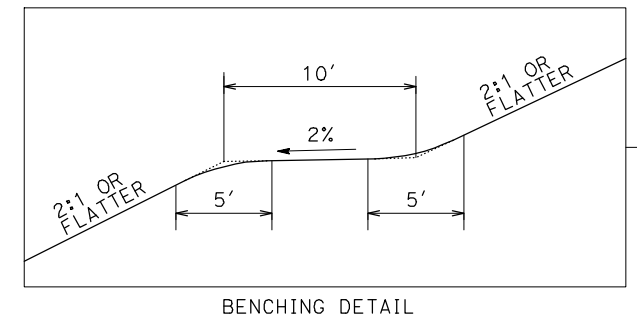
- STRUCTURAL SECTIONS:**
- 1 [HMA TYPE A
AB CLASS 2
 - 2 [CAST IN PLACE / PRESTRESSED
BOX GIRDER (6' STRUCTURE DEPTH)
 - 3 [AB CLASS 2

*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 21 WYE :

NO.	STREET NAME	NO.	STREET NAME
1	Avenue 8	1	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
SUBMITTAL

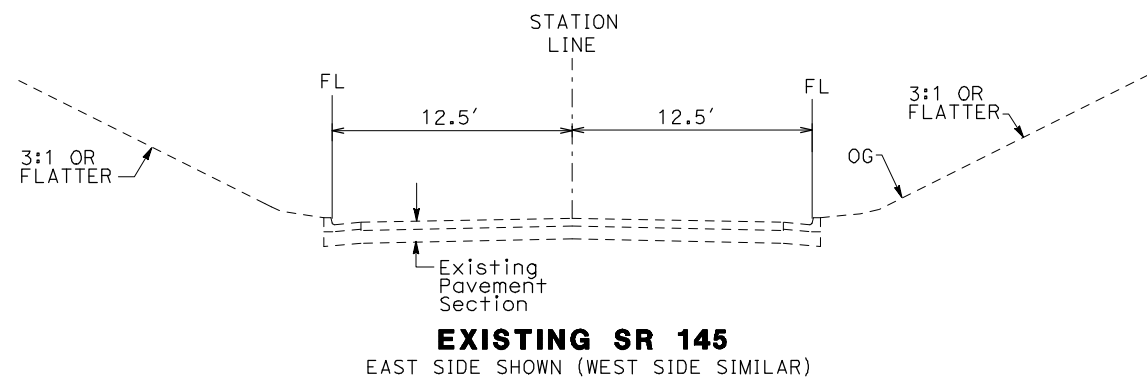
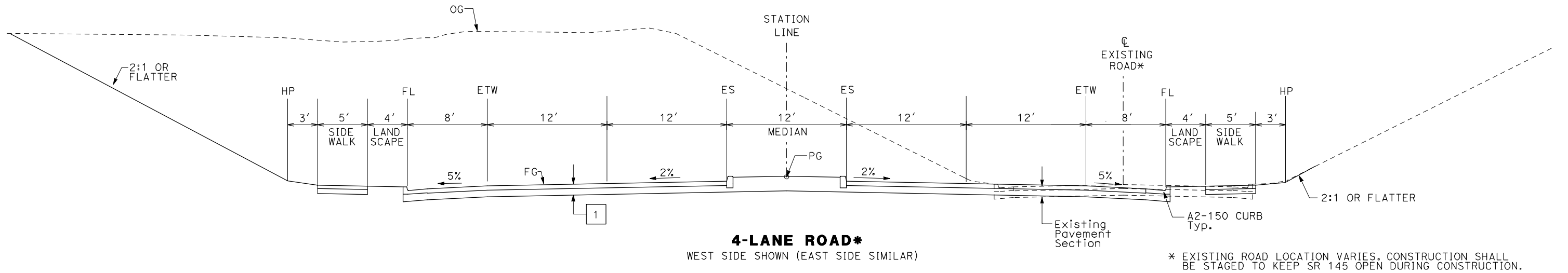
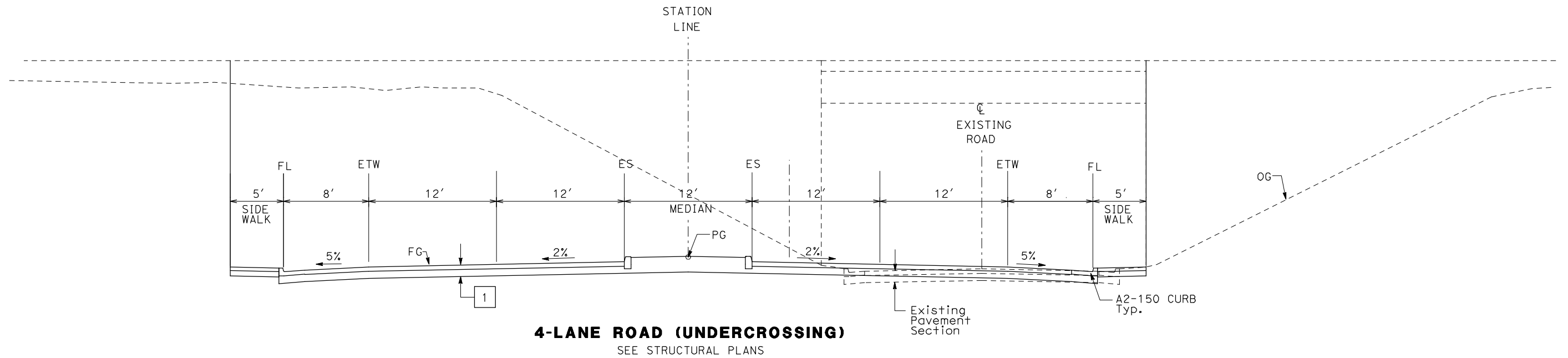
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 21 WYE
TYPICAL CROSS SECTIONS
HIGHWAY
SHEET 1 OF 2

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0121-A
SCALE
NONE
SHEET NO.
OF

5/1/2011 12:23:59 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave21\Volume 2A - Ave 21 Wye Caltrans Facilities\Typical Section\MF-CT-0122-A.dgn



TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A1:

NO.	STREET NAME
1	W. Yosemite Ave. (SR 145)

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
SUBMITTAL

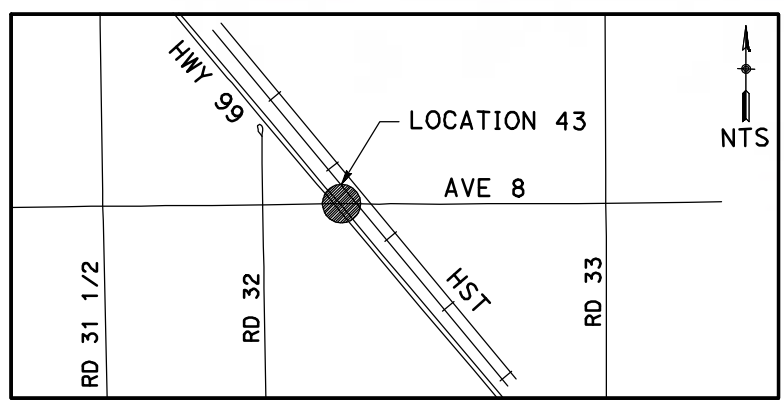
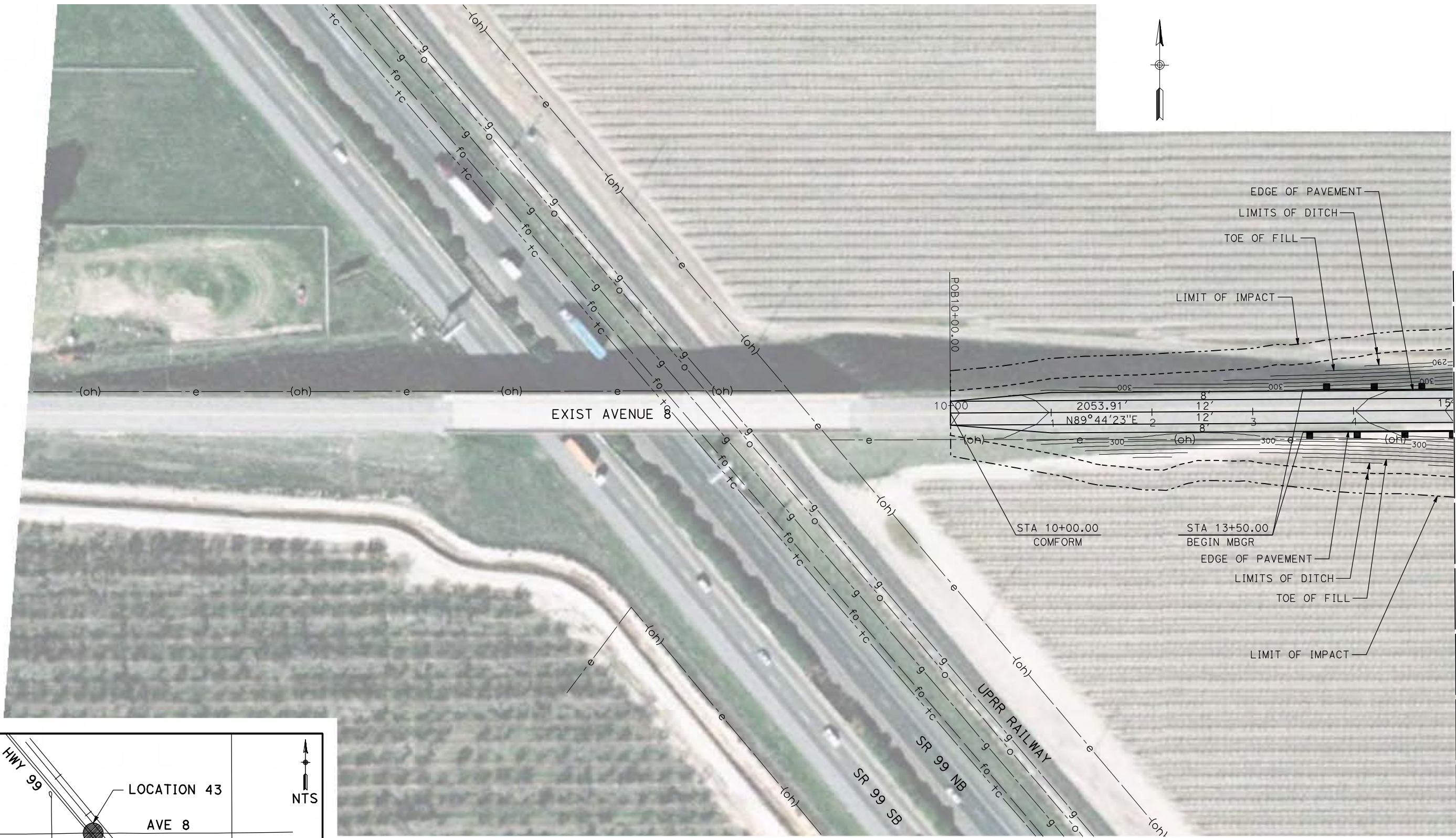
NOT FOR
CONSTRUCTION



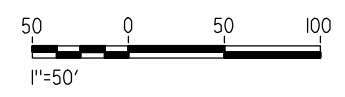
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF - AVE 21 WYE
TYPICAL CROSS SECTIONS
HIGHWAY
SHEET 2 OF 2

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0122-A
SCALE
NONE
SHEET NO.
OF

5/1/2011 12:39:48 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\cost_reduction\grade_sep_plan\MF-CT-2001-A.dgn



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3001-A THROUGH CT3003-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

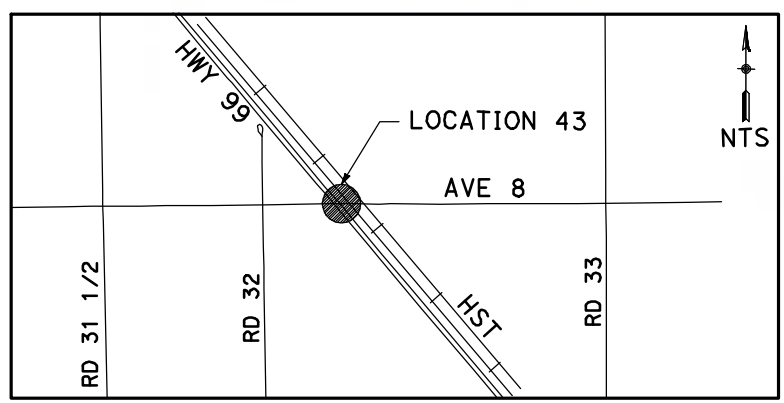
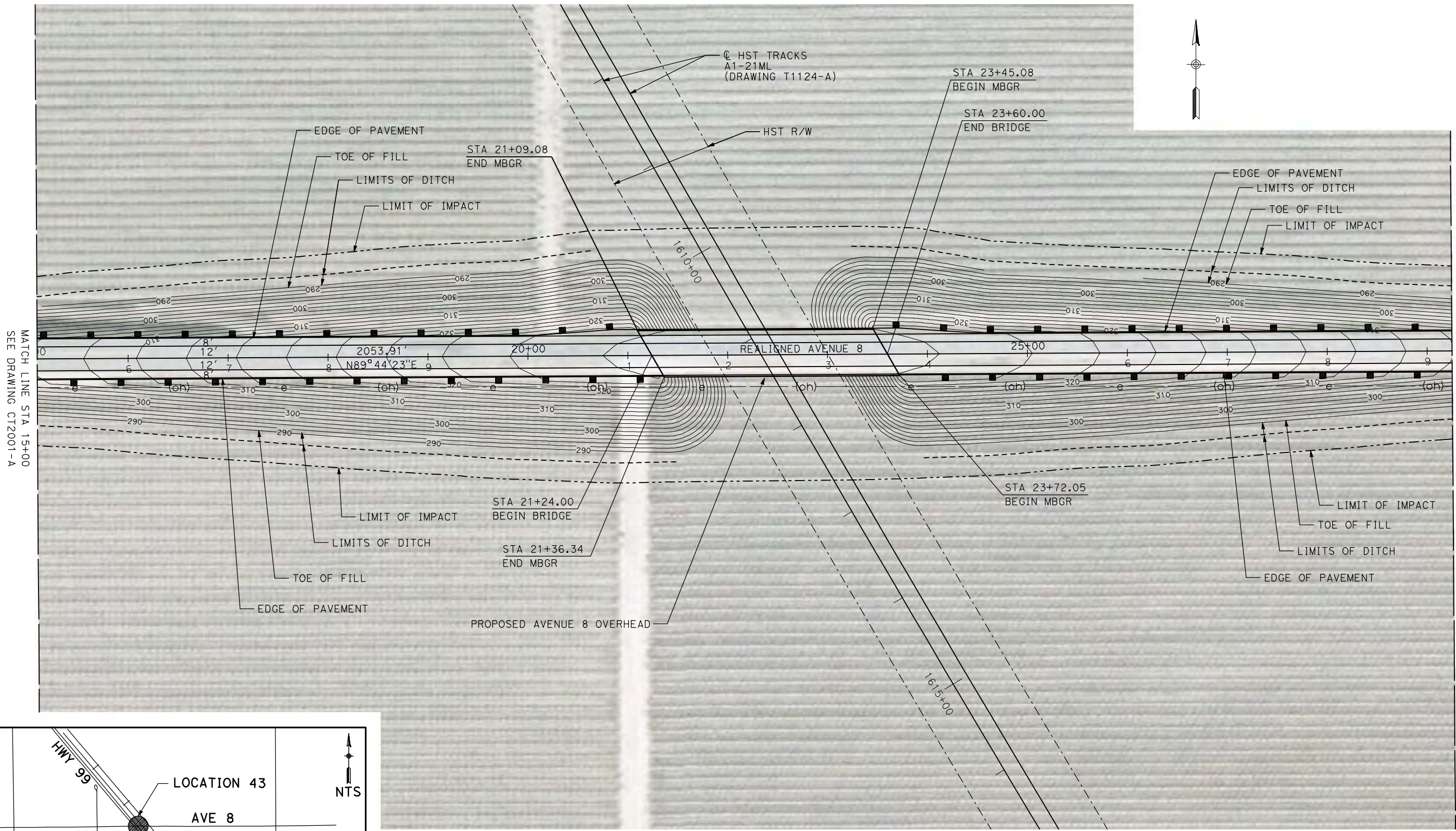
DESIGNED BY
R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
A. SILVER
IN CHARGE
A. BOONE
DATE
04/29/2011



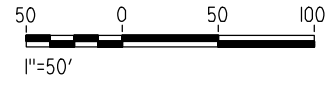
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 8
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2001-A
SCALE
AS SHOWN
SHEET NO.
OF ###

5/1/2011 12:39:55 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\cost_reduction\grade_sep_plan\WF-CT-2002-A.dgn



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

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

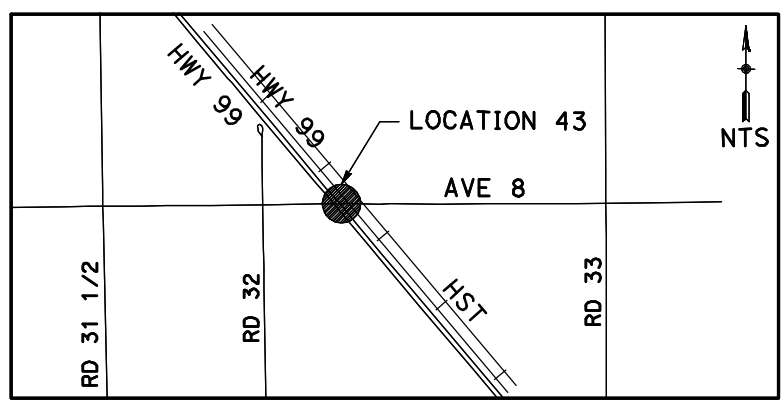
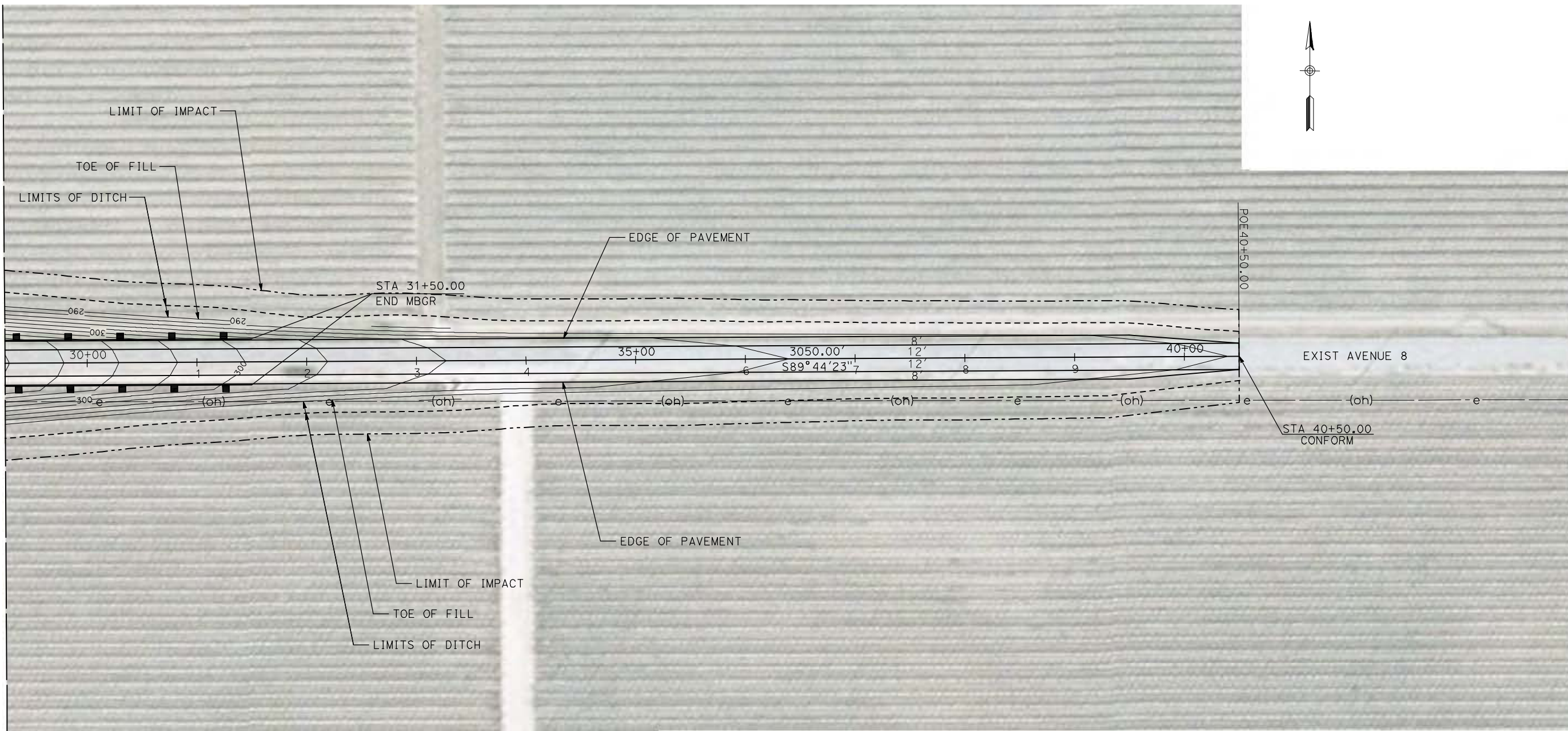


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAINLINE - AVE 21 WYE
 GRADE SEPARATION - AVENUE 8
 LAYOUT
 SHEET 2 OF 3

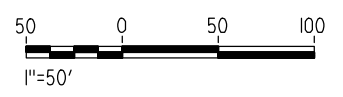
CONTRACT NO.
 HSR06-007
 DRAWING NO.
 CT2002-A
 SCALE
 AS SHOWN
 SHEET NO.
 OF ###

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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
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

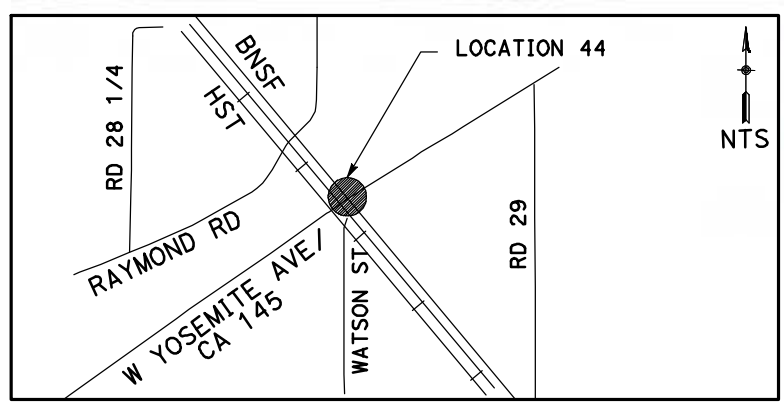
BNSF MAIN LINE - AVE 21 WYE
GRADE SEPARATION - AVENUE 8
LAYOUT
SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2003-A
SCALE
AS SHOWN
SHEET NO.
OF

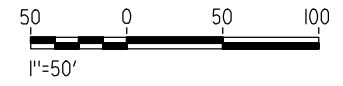
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CURVE DATA					
NO.	R	Δ	T	L	V
①	3000.00'	4°58'23"	130.28'	260.39'	55 MPH



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

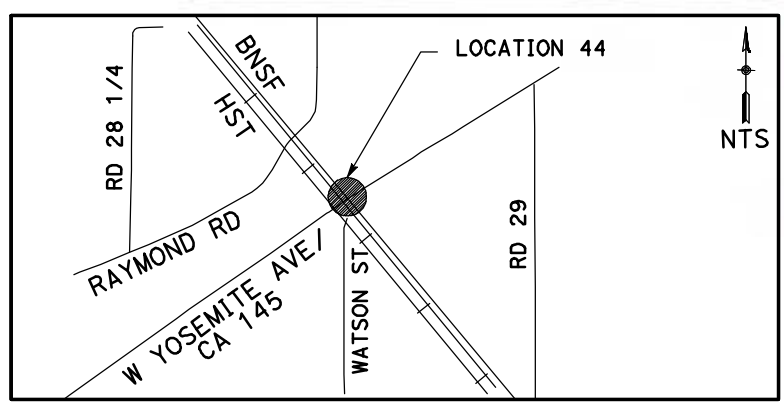
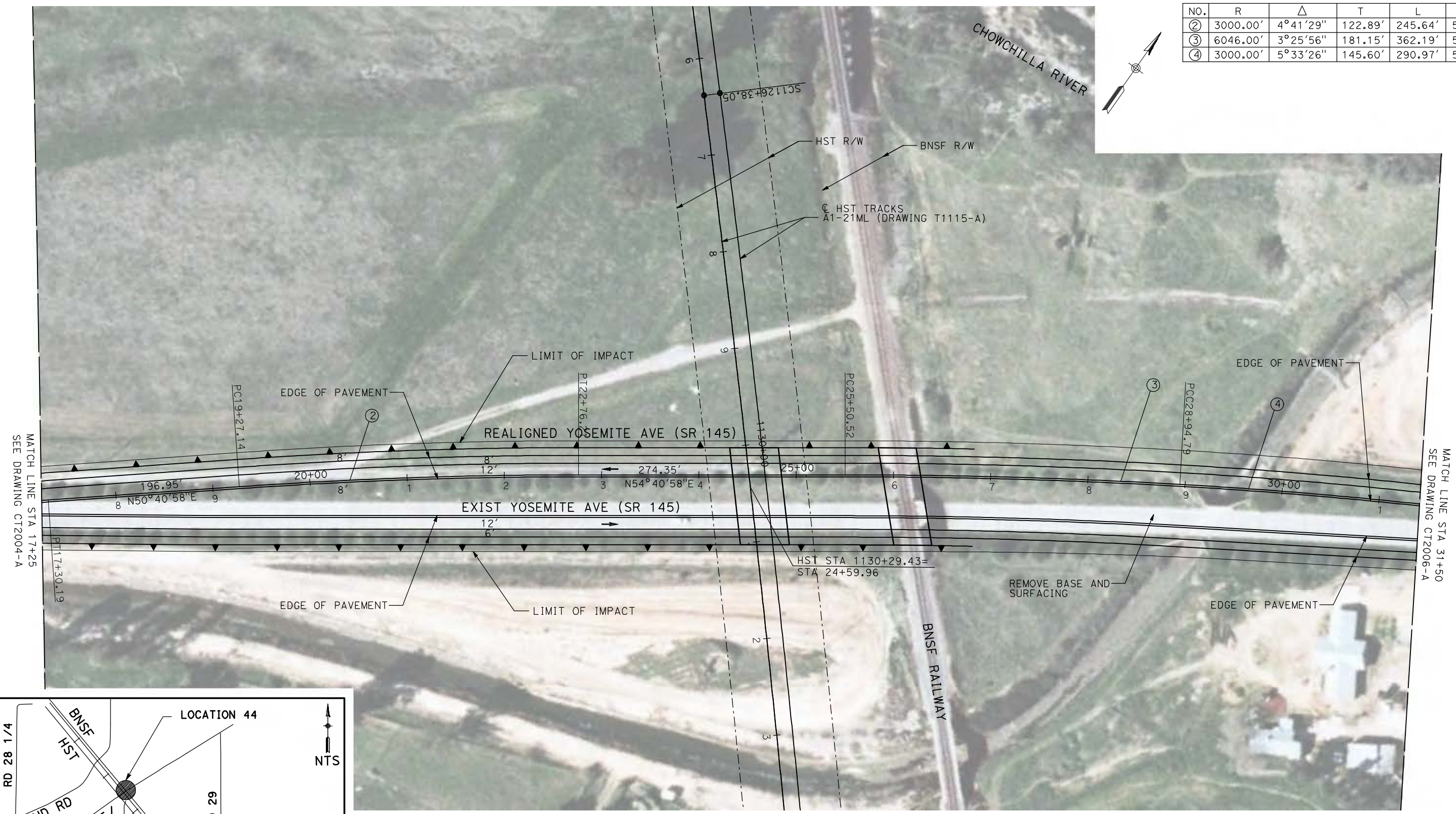
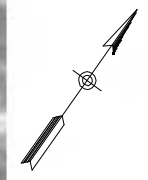


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 UNDERPASS - YOSEMITE AVE (SR 145)
 LAYOUT
 SHEET 1 OF 3

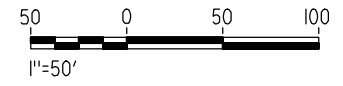
CONTRACT NO.
HSR06-007
 DRAWING NO.
CT2004-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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

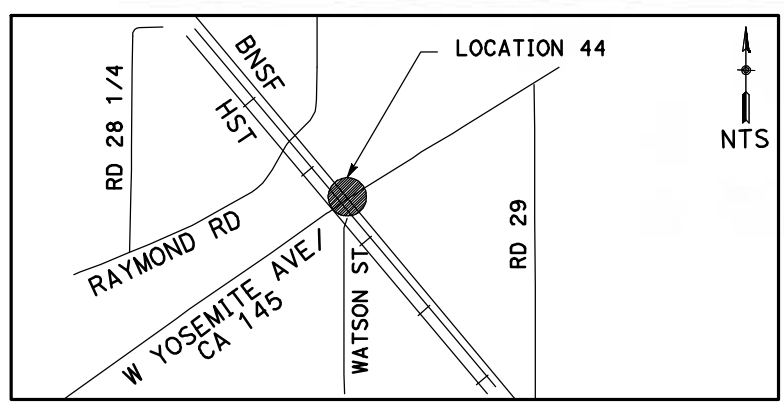
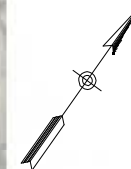


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 UNDERPASS - YOSEMITE AVE (SR 145)
 LAYOUT
 SHEET 2 OF 3

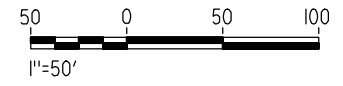
CONTRACT NO.
HSR06-007
 DRAWING NO.
CT2005-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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

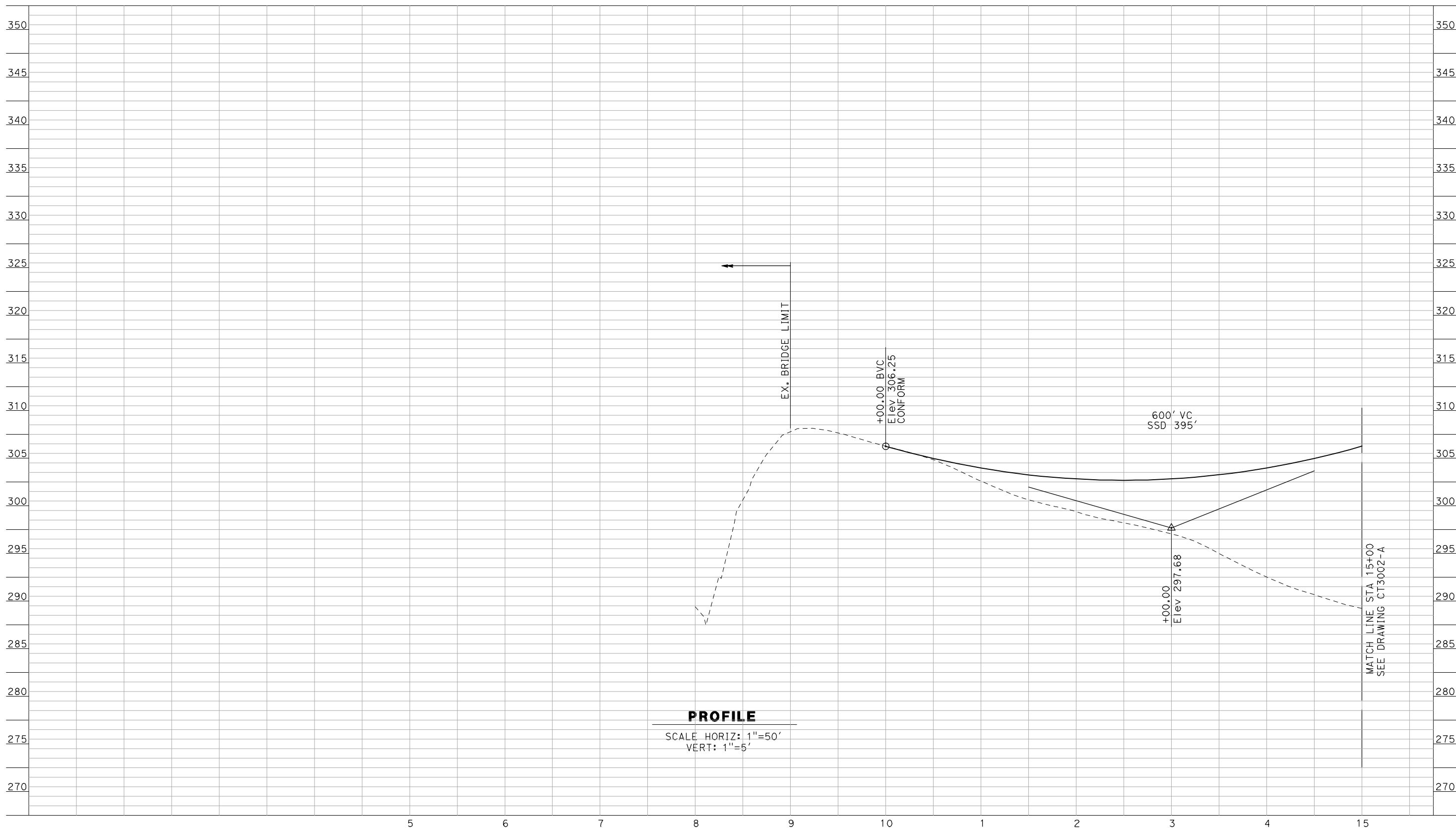


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MAIN LINE - AVE 21 WYE
 UNDERPASS - YOSEMITE AVE (SR 145)
 LAYOUT
 SHEET 3 OF 3

CONTRACT NO.
HSR06-007
 DRAWING NO.
CT2006-A
 SCALE
AS SHOWN
 SHEET NO.
OF

355

355



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

5/1/2011 12:40:32 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 21 WYE
GRADE SEPARATION - AVENUE 8
PROFILE
SHEET 1 OF 3

CONTRACT NO.
HSR06-007

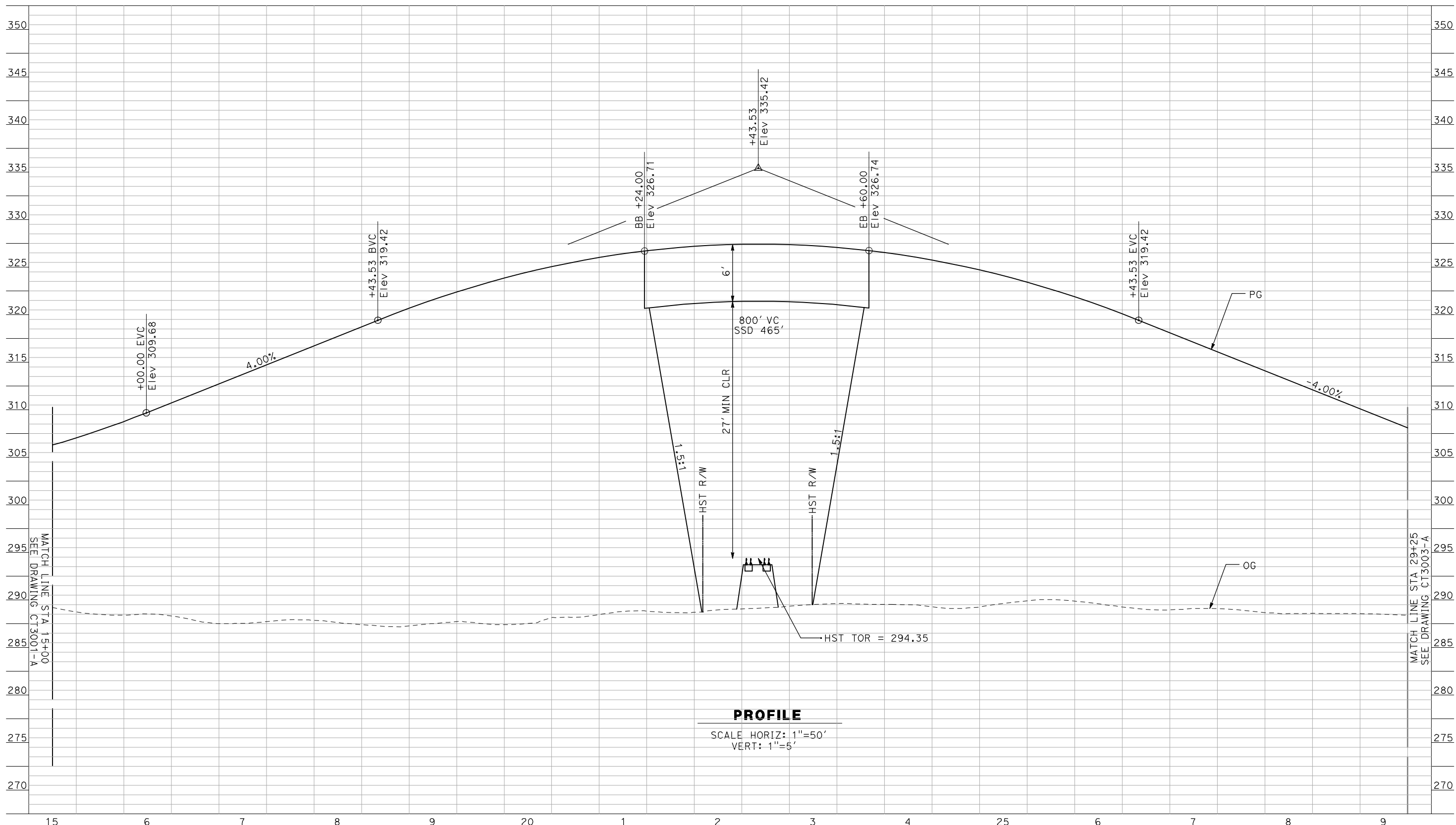
DRAWING NO.
CT3001-A

SCALE
AS SHOWN

SHEET NO.
OF ###

355

355



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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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**

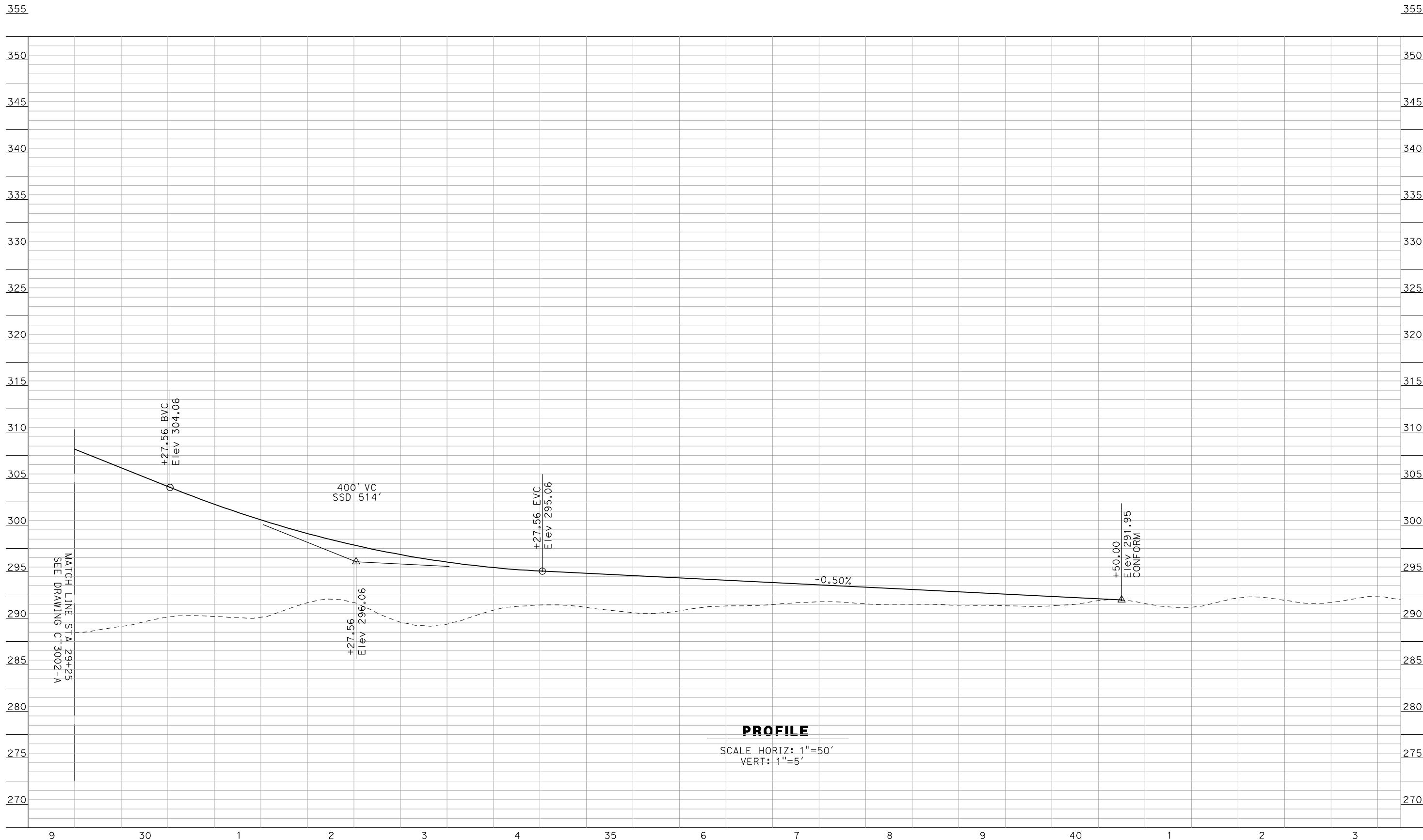
**NOT FOR
CONSTRUCTION**



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

BNSF MAINLINE - AVE 21 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'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

5/1/2011 12:40:39 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\Cost_Reduction\Grade_Sep_Profile\WF-CT-3003-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**

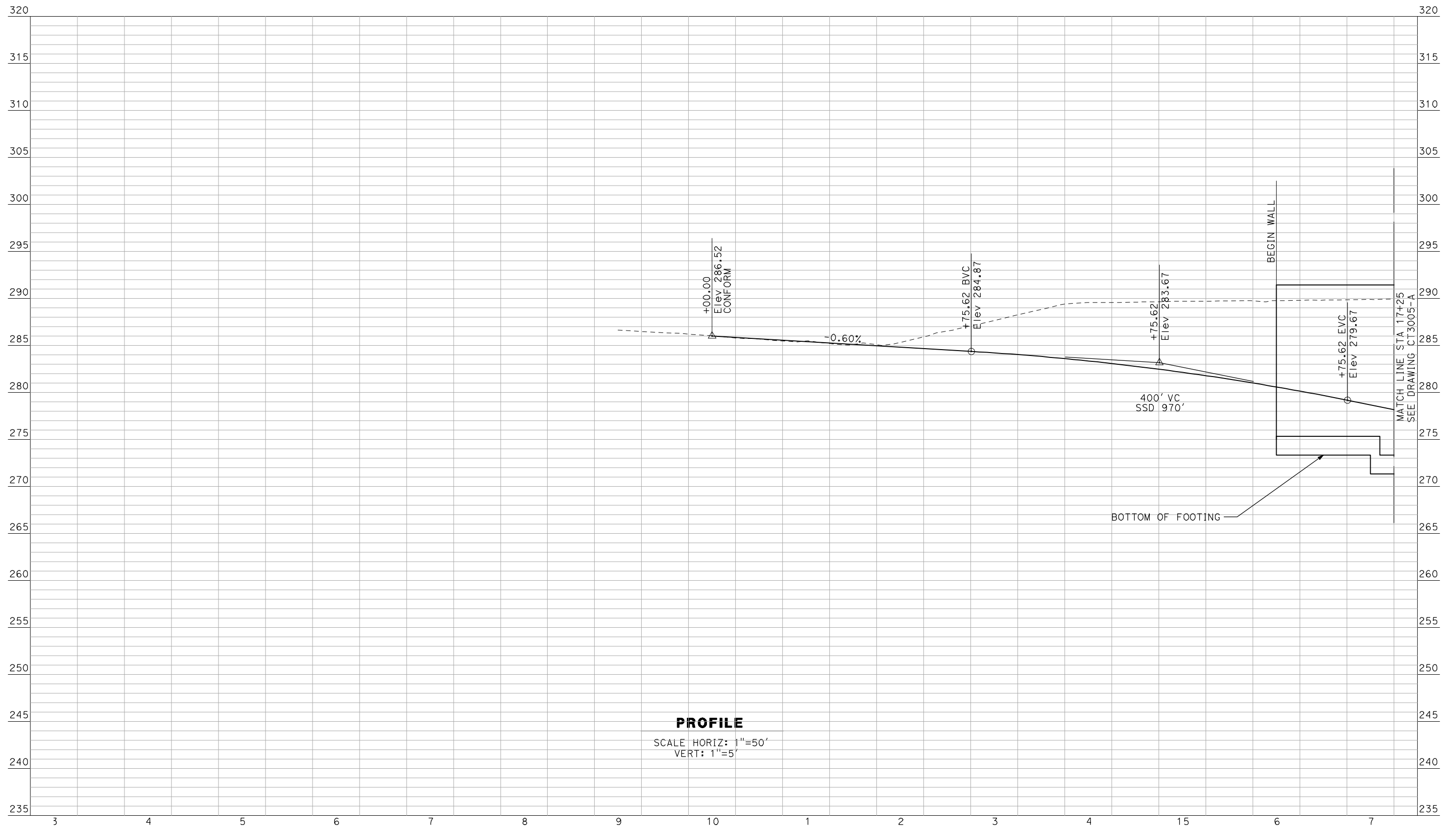


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 21 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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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**

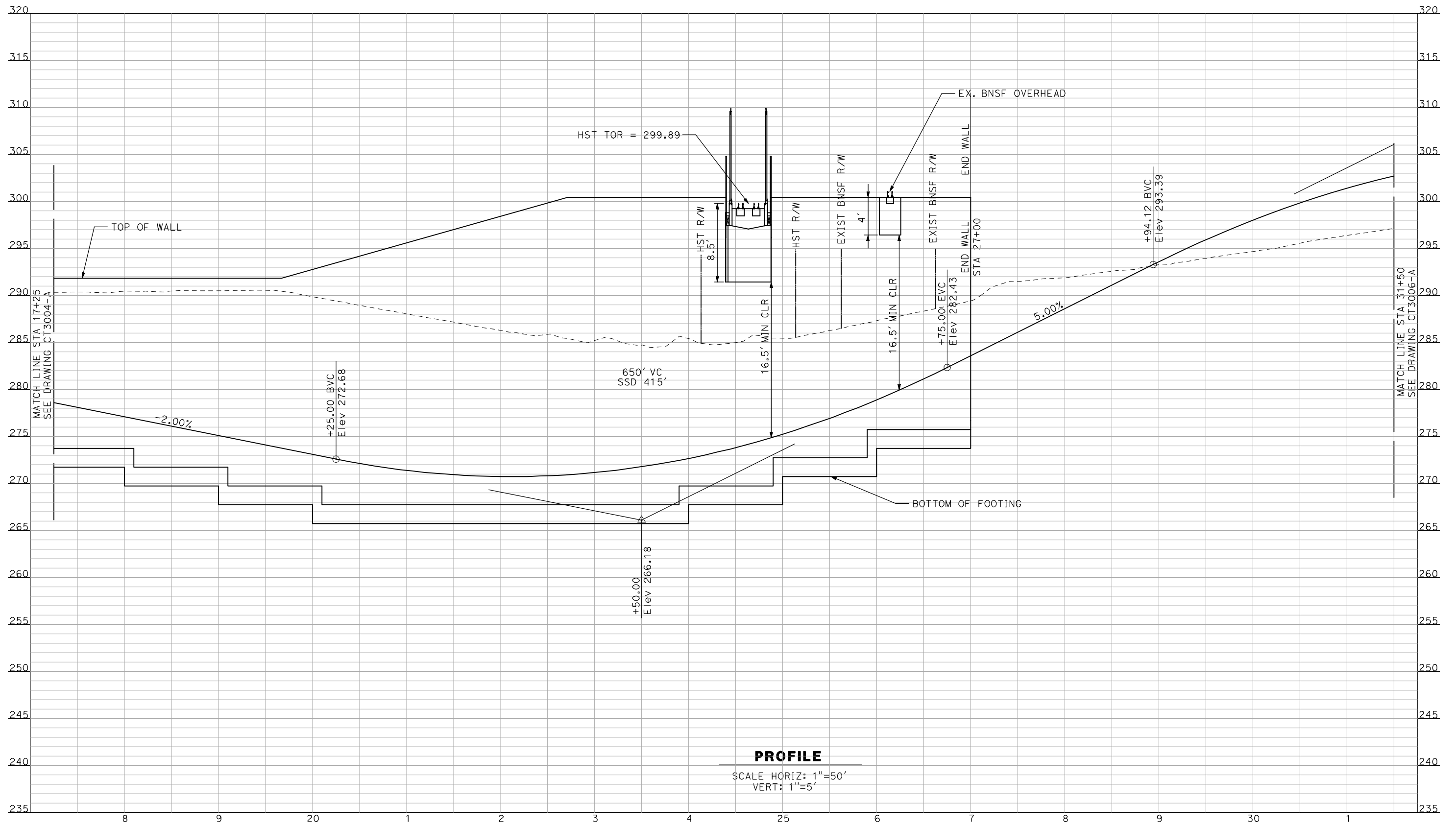


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 21 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**

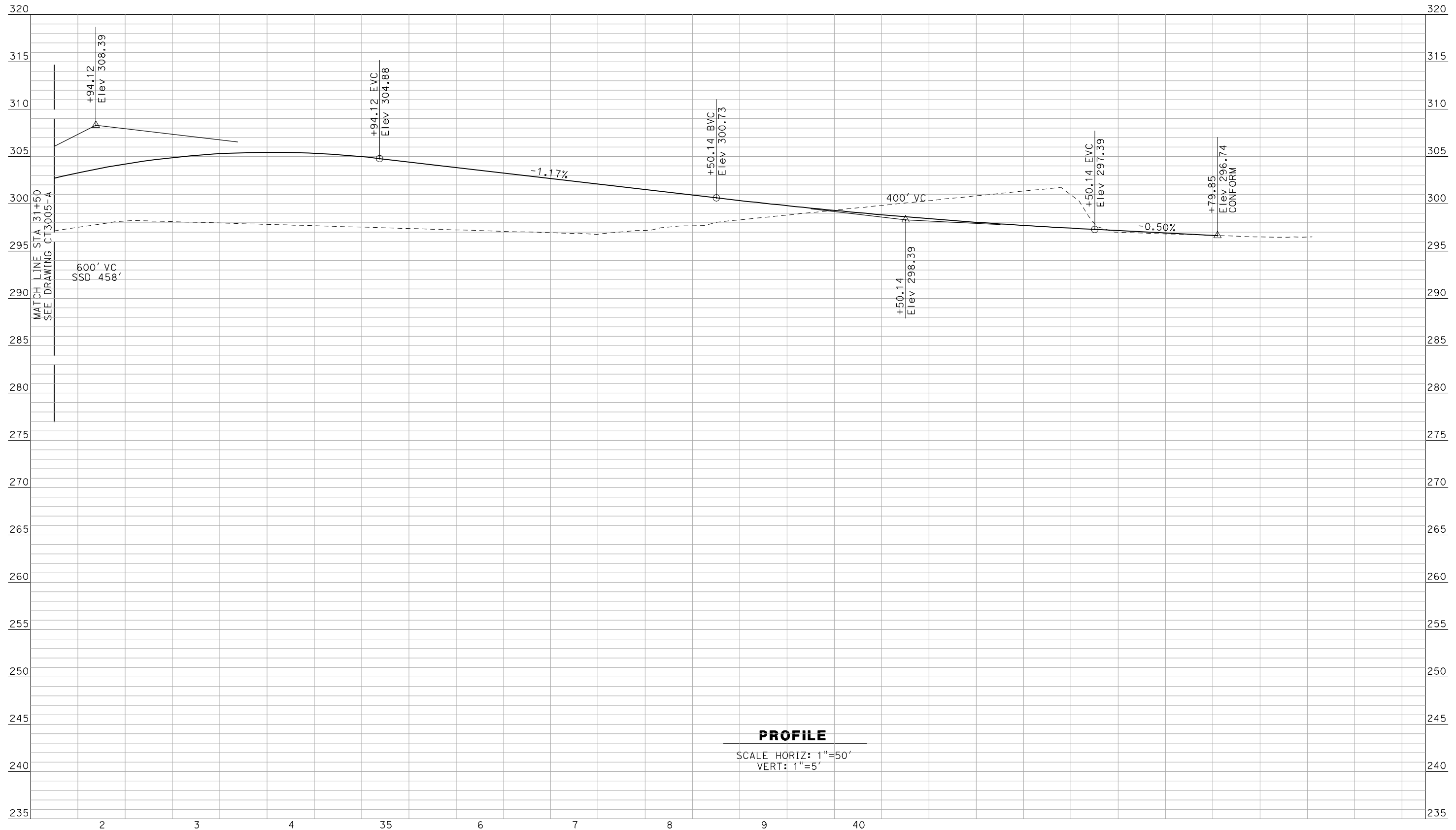


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 21 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 ###

5/1/2011 12:40:51 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\Cost_Reduction\Grade_Sep_Profile\WF-CT-3006-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**



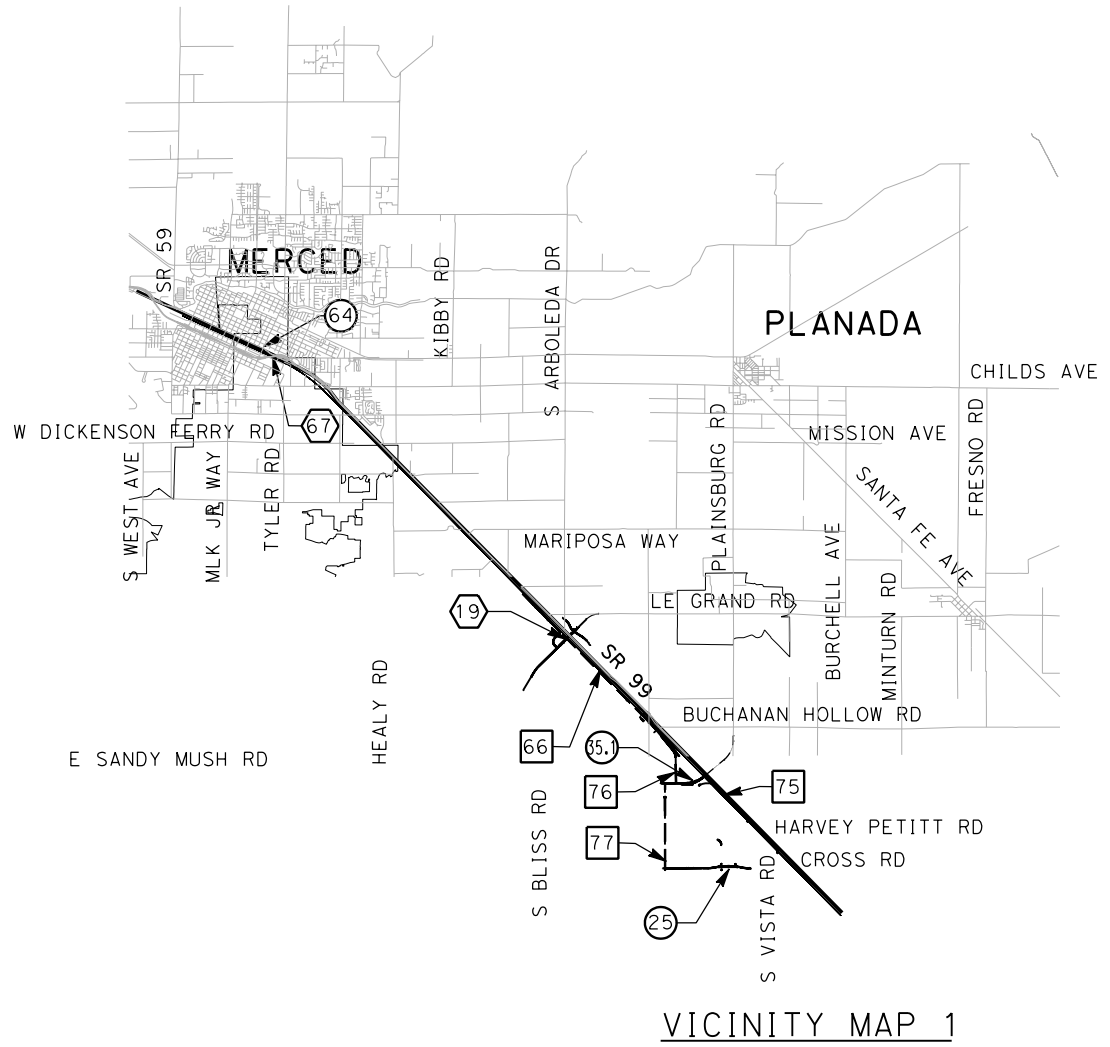
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE - AVE 21 WYE
UNDERPASS - YOSEMITE AVE (SR 145)
PROFILE
SHEET 3 OF 3

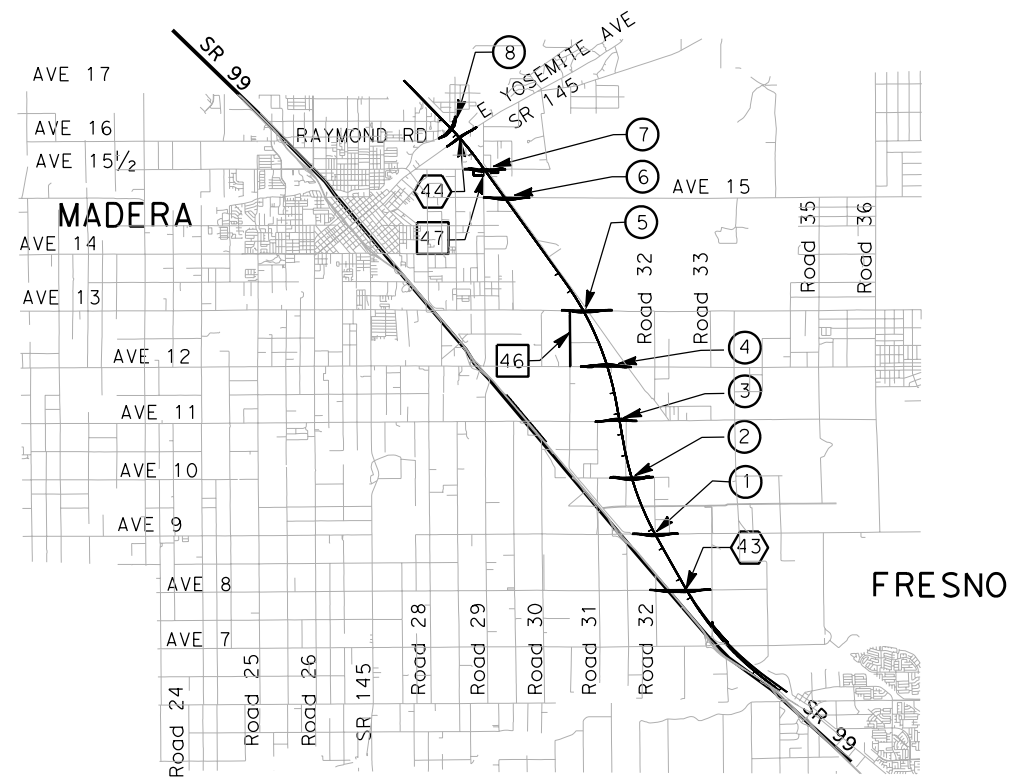
CONTRACT NO. HSR06-007
DRAWING NO. CT3006-A
SCALE AS SHOWN
SHEET NO. OF ###

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LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
43	AVENUE 8 OVERHEAD	ST1000	CT2000-A - CT2003-A
67	SR 99 SOUTH BOUND OVERHEAD	ST1181	



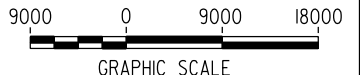
VICINITY MAP 1



VICINITY MAP 3

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

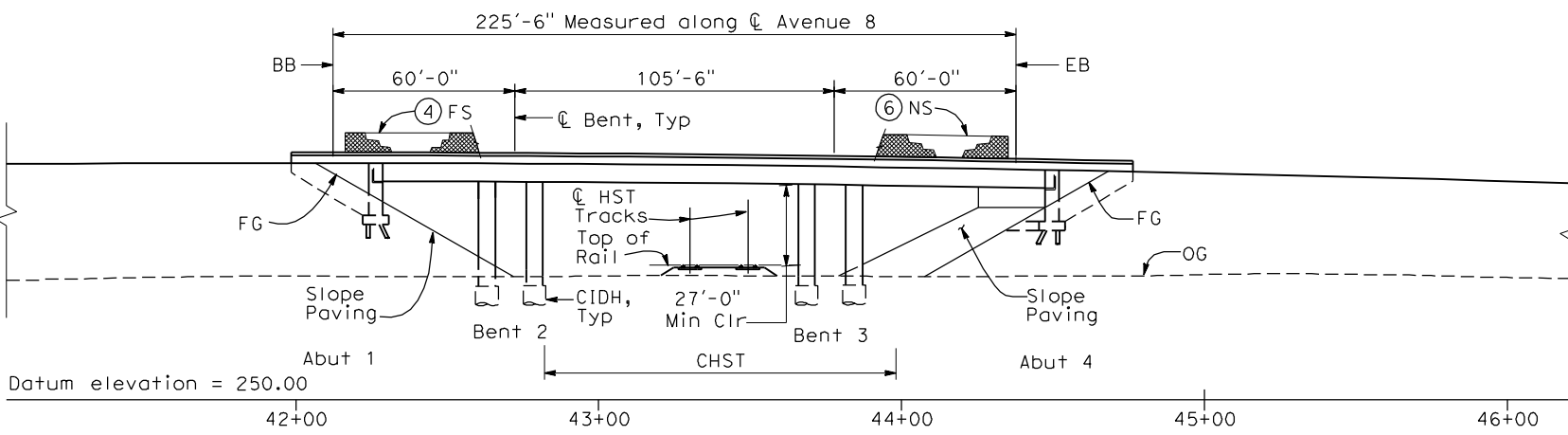
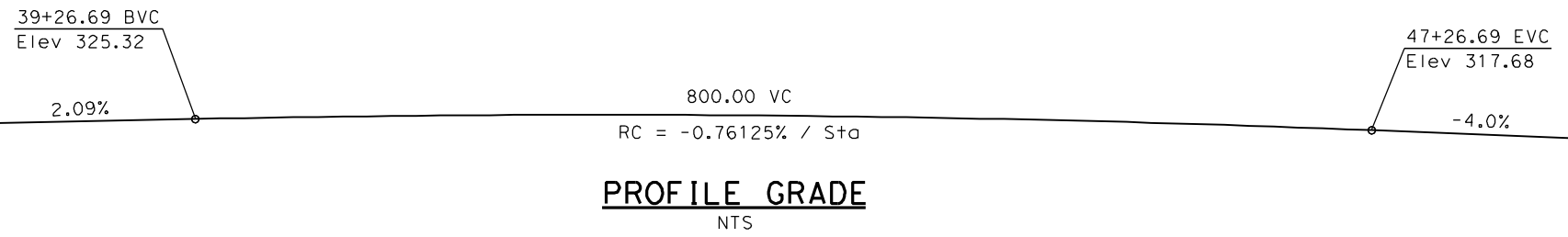
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

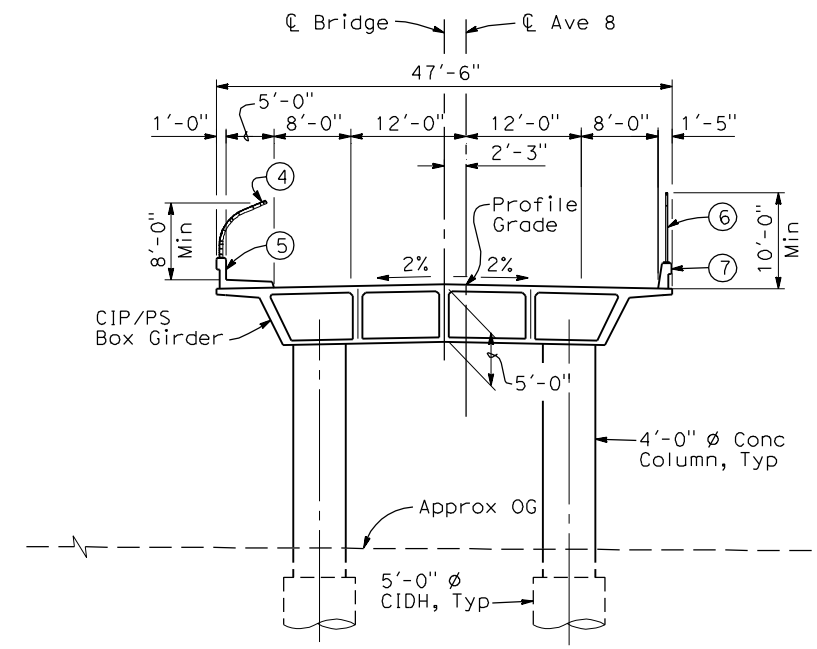


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
STRUCTURE INDEX MAP
SHEET 1 OF 1

CONTRACT NO.	HSR06-007
DRAWING NO.	SB0201
SCALE	As shown
SHEET NO.	OF



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

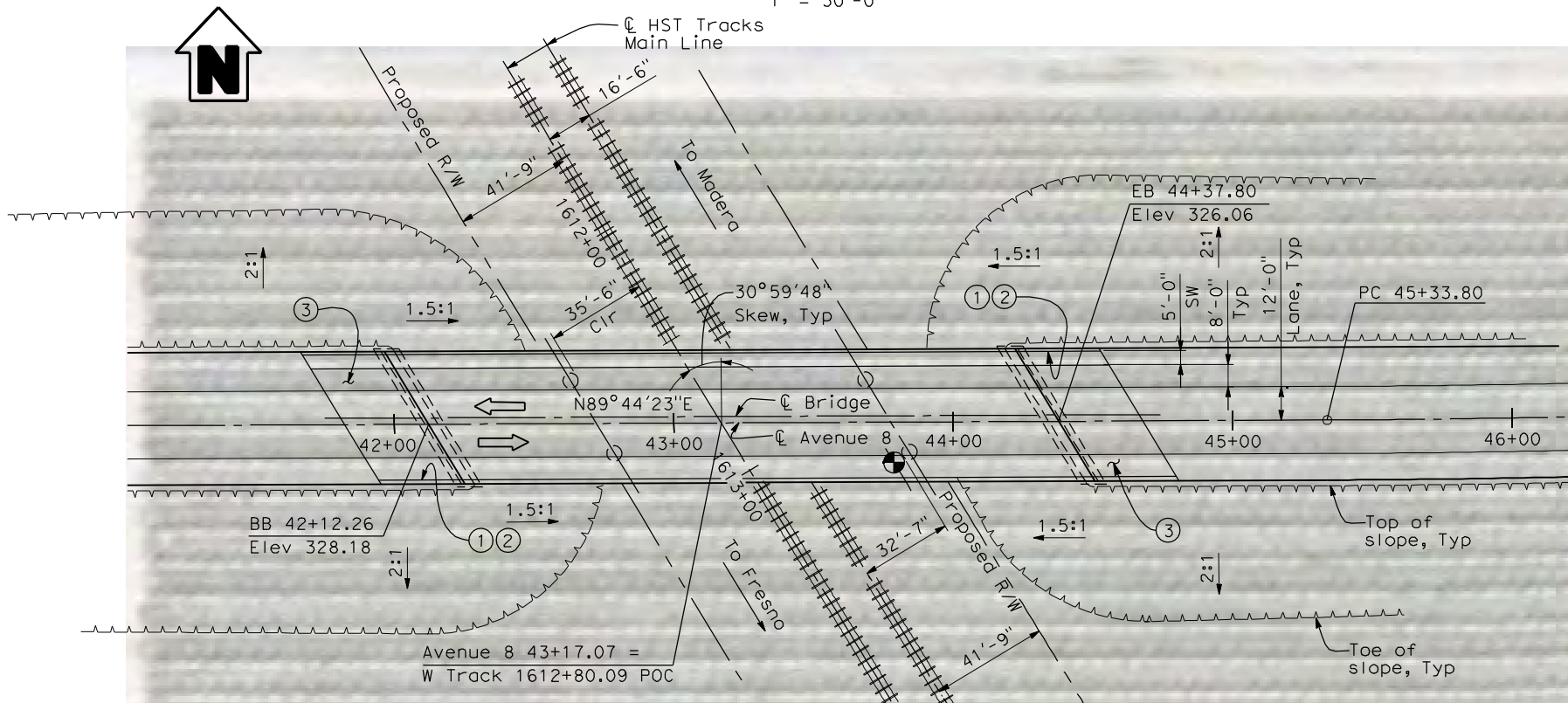
NOTES:

- 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:

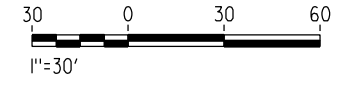
- ← Direction of traffic
- Point of minimum vertical clearance

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	=	_____



PLAN
1" = 30'-0"

LOCATION 43



4/30/2011 4:58:36 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_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

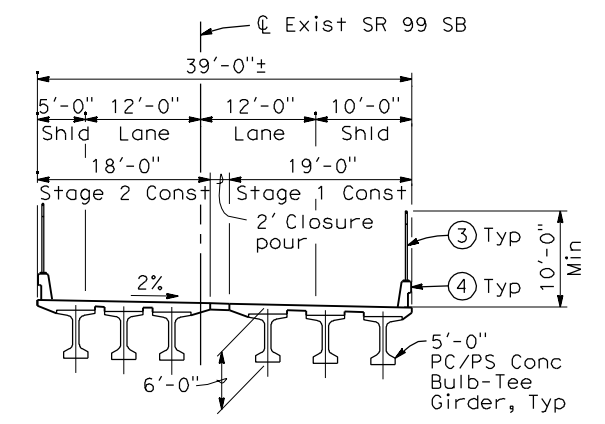
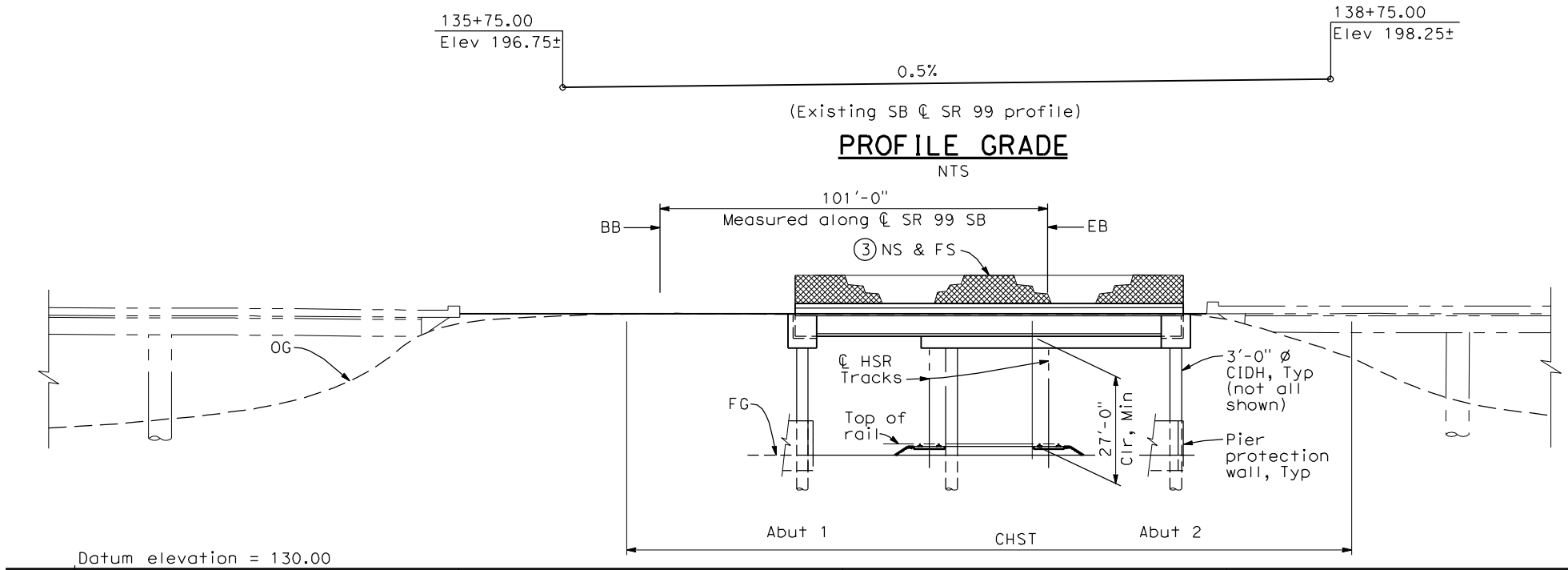
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 8 OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO.
ST1000
SCALE
As shown
SHEET NO.
OF



TYPICAL SECTION
1" = 10'-0"

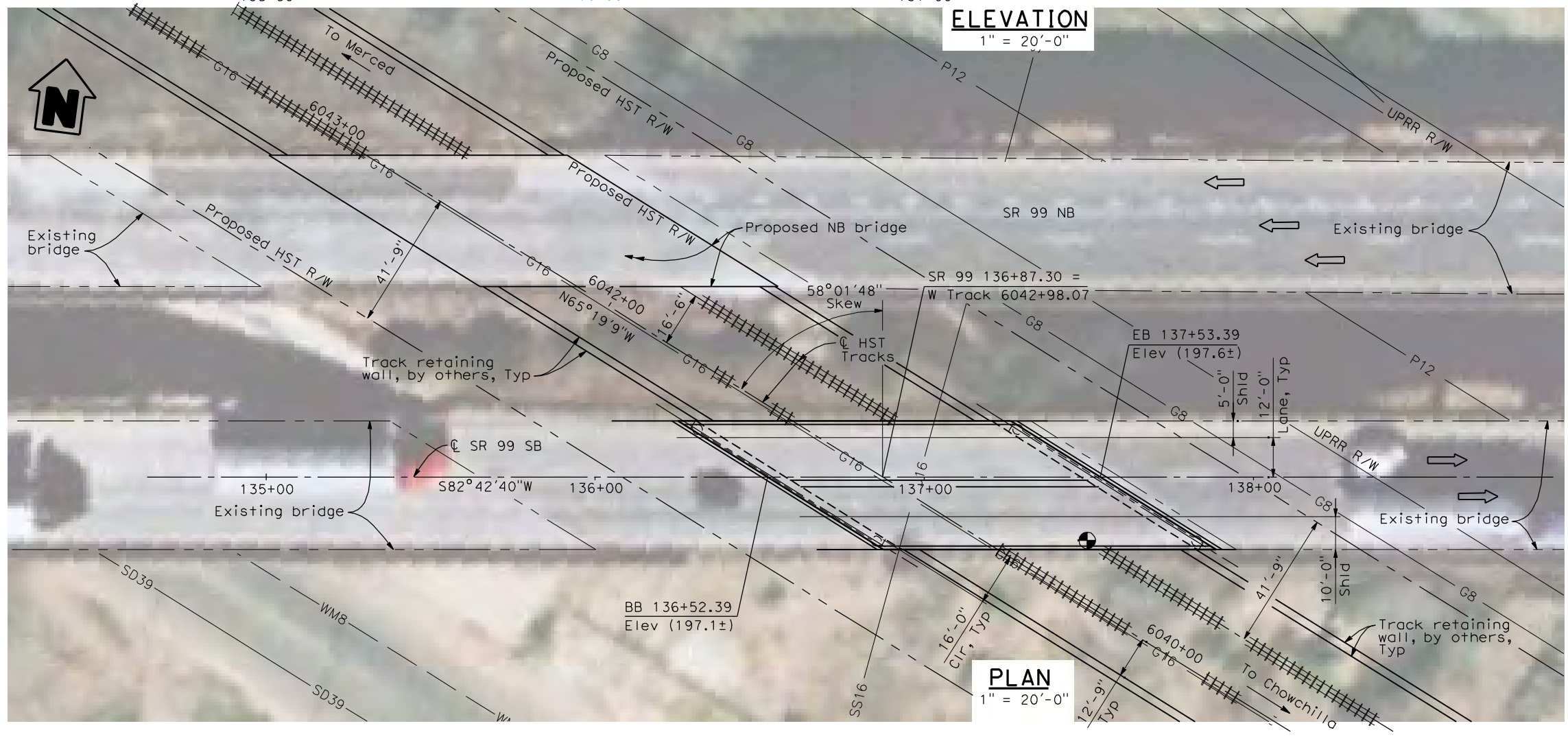
NOTES:

- ① Paint "Bridge No. WX-YY"
- ② Paint "SR 99 OH"
- ③ Chain Link Railing Type 7 (Mod)
- ④ Concrete Barrier Type 732
5. Southbound bridge shown, northbound bridge similar.
6. Bearing, stationing and elevation of SR 99 SB to be verified.
7. Existing underground and overhead utilities to be determined.

LEGEND:

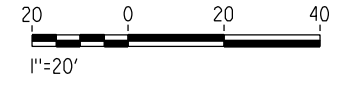
- ← Direction of traffic
- Point of minimum vertical clearance
- G = Gas
- FO = Fiber Optic
- P = Petroleum
- SD = Storm Drain
- SS = Sanitary Sewer
- WM = Water

DATE OF ESTIMATE	_____
BRIDGE REMOVAL	= _____
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 101'-0"
WIDTH	= 39'-0"
AREA	= 3,950 ft ²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= _____
TOTAL COST	= _____



PLAN
1" = 20'-0"

LOCATION 67



4/30/2011 6:37:49 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\SPS\A2\15%_cost_reduction_submittal\Grade Structure\WF-5T-OH_SR_99-Loc67.dgn

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

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
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
SR 99 SOUTHBOUND OVERHEAD
PLANNING STUDY

CONTRACT NO.
HSR06-007

DRAWING NO.
ST1181

SCALE
As shown

SHEET NO.
OF

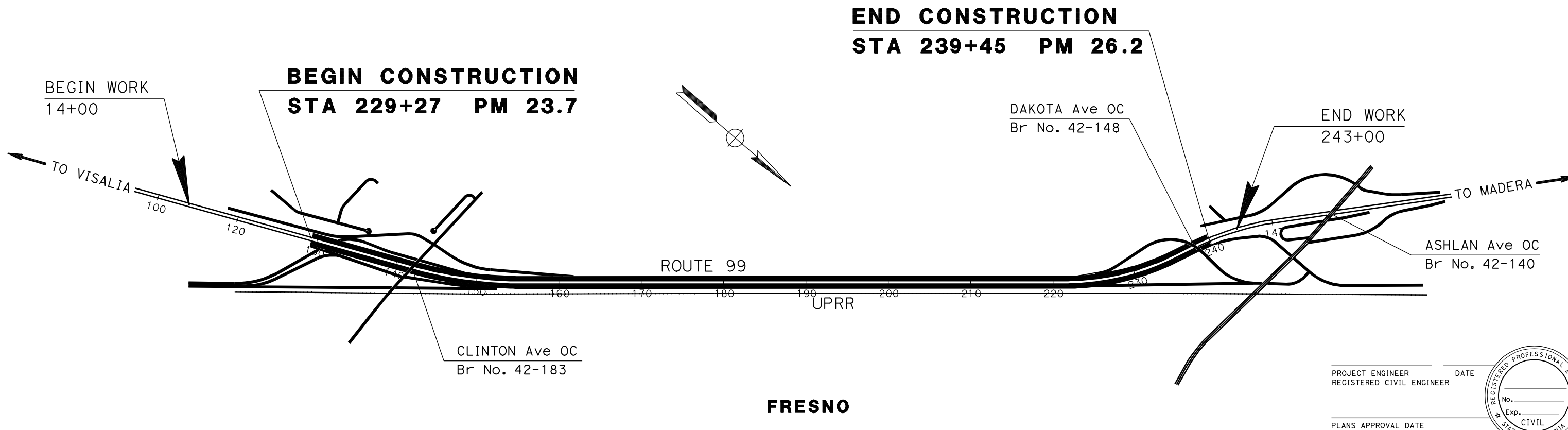
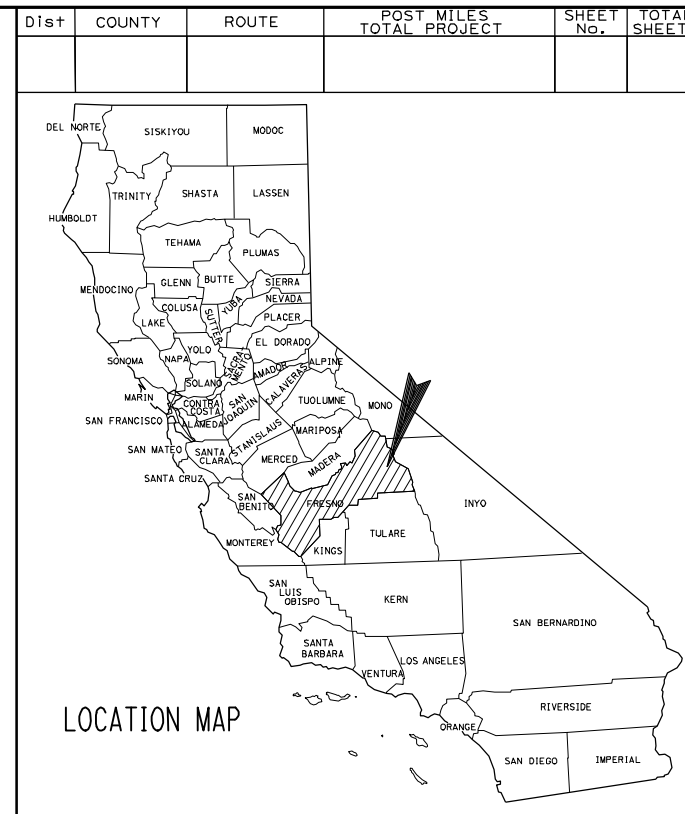
INDEX OF PLANS

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

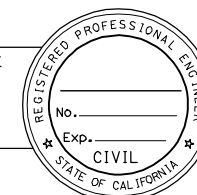
PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY IN THE CITY OF FRESNO 0.5 MI SOUTH OF CLINTON AVENUE TO 0.2 MI SOUTH OF ASHLAN AVENUE

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**

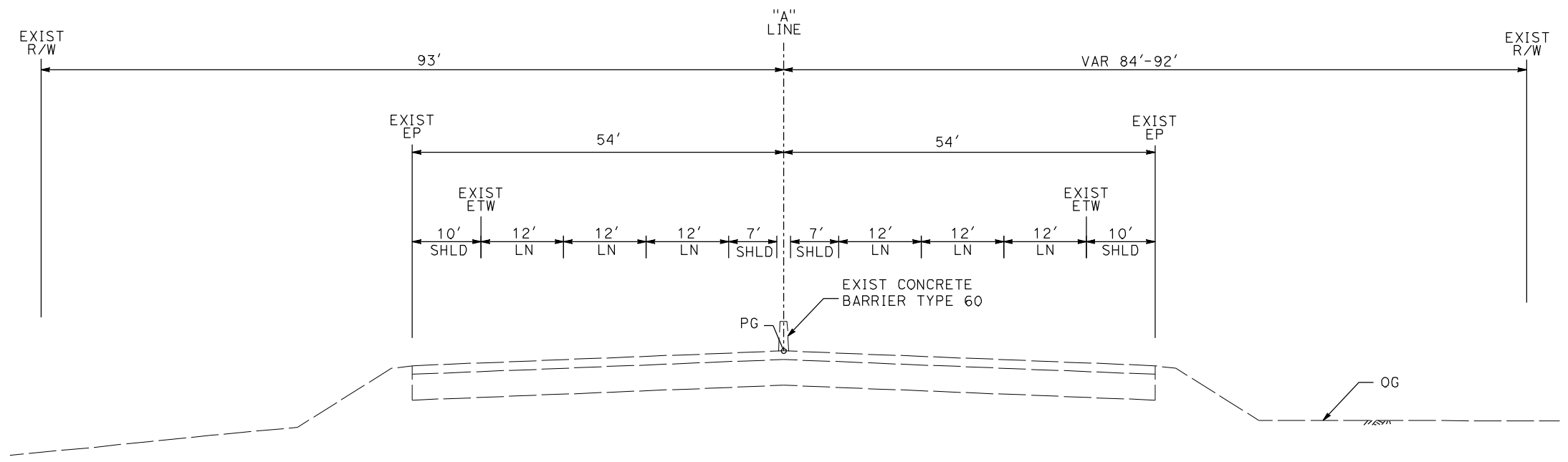
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TITLE

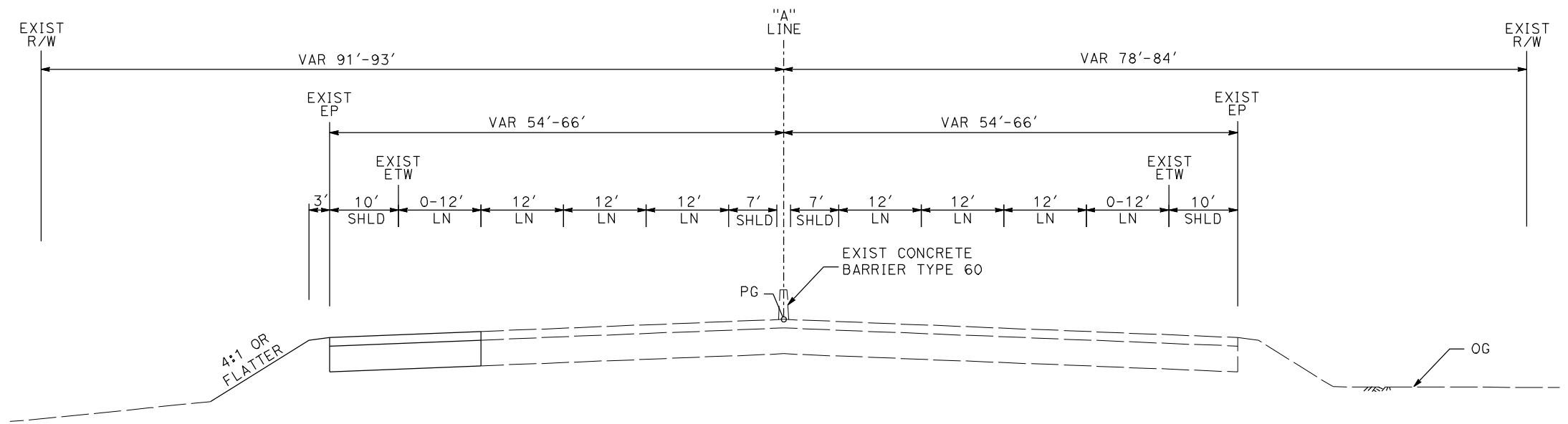
CONTRACT NO.
HSR06-007
 DRAWING NO.
T-1
 SCALE
NO SCALE
 SHEET NO.

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**

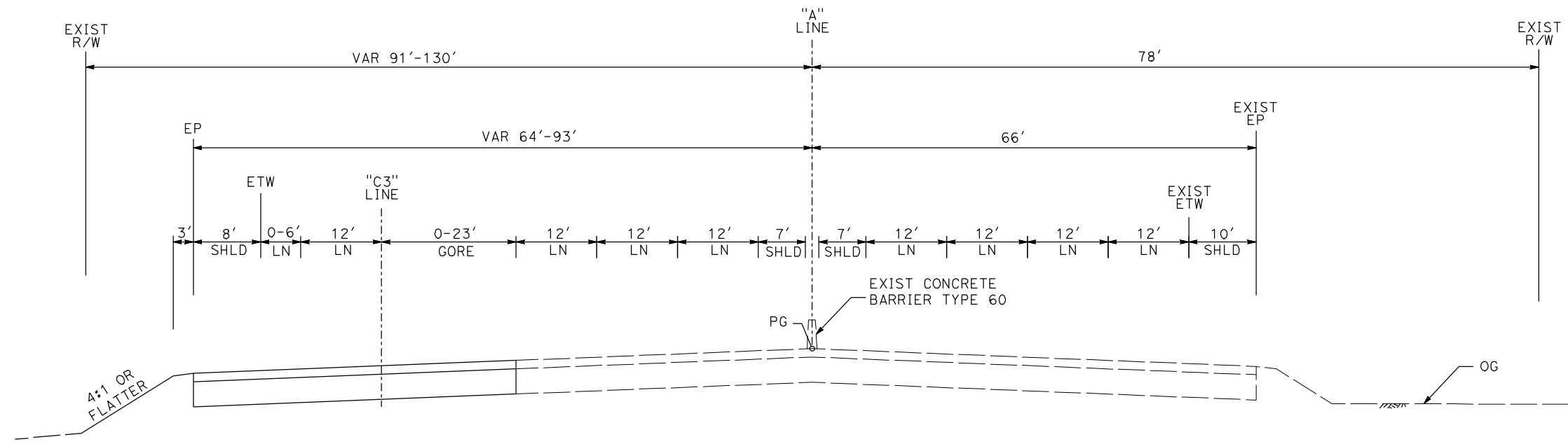
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

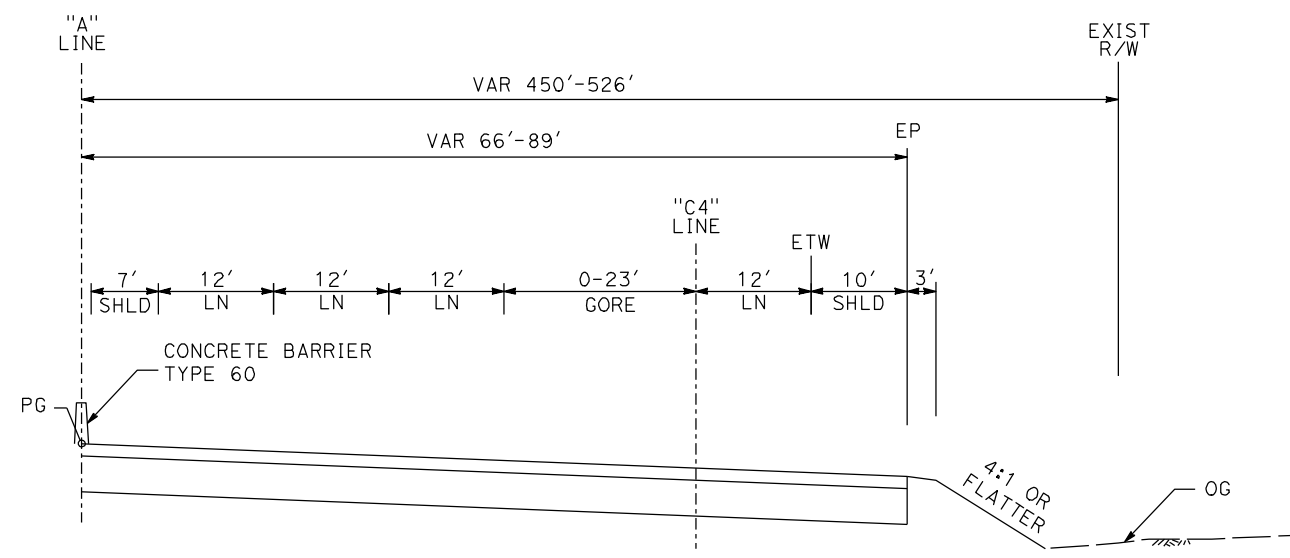
CONTRACT NO.
HSR06-007
DRAWING NO.
X-1
SCALE
NO SCALE
SHEET NO.

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**

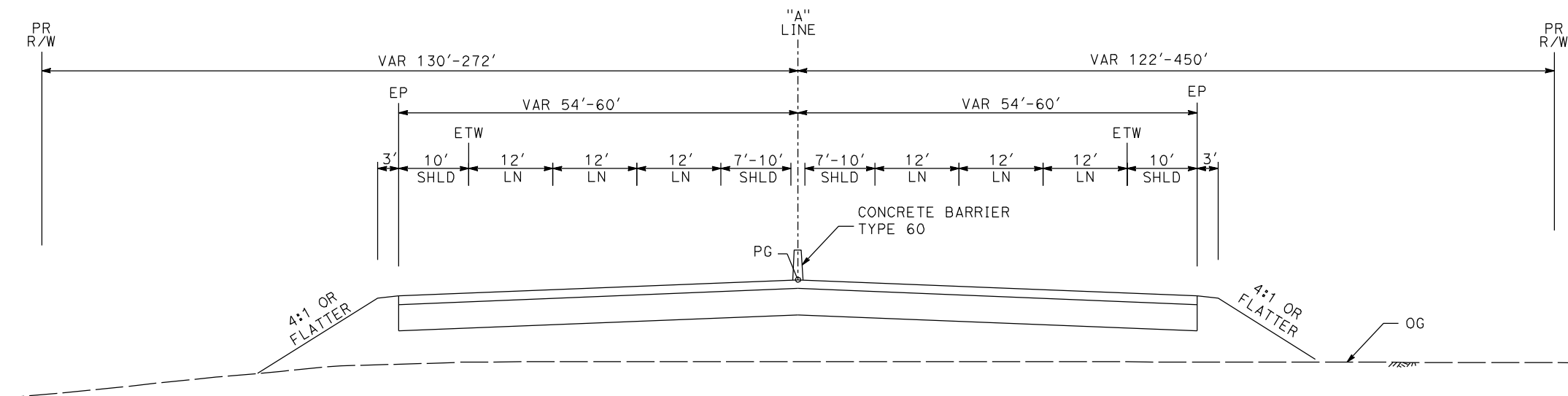
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

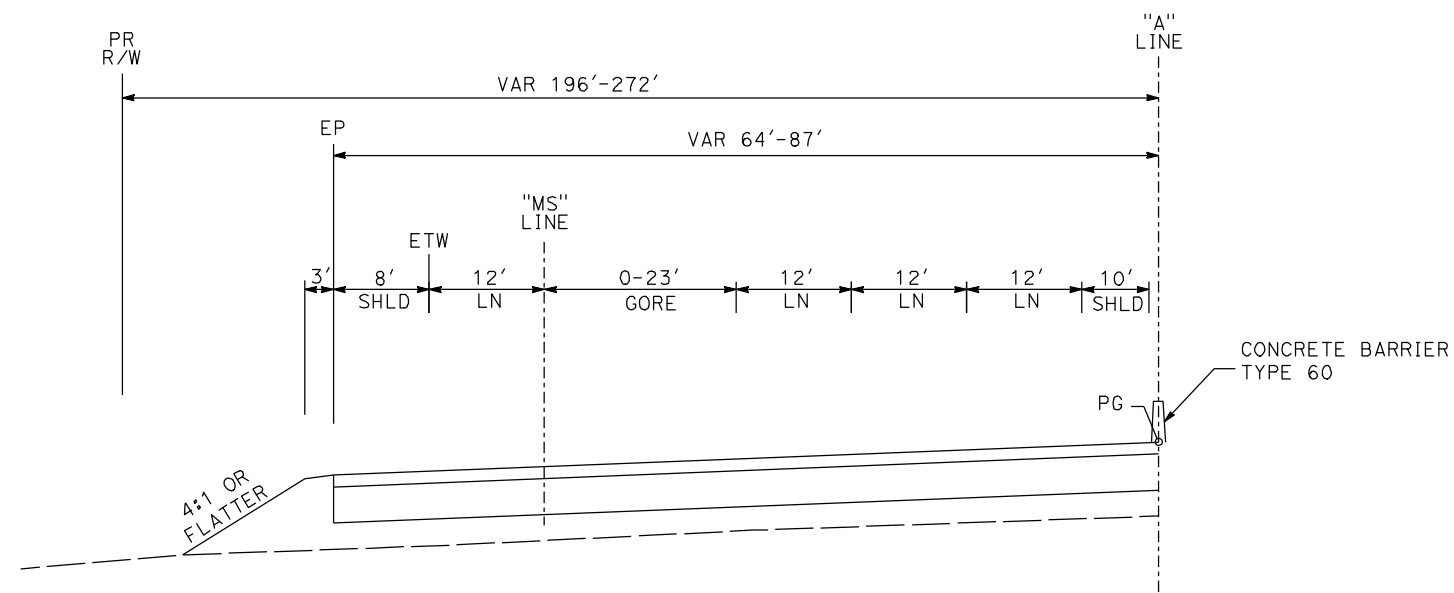
CONTRACT NO.
HSR06-007
DRAWING NO.
X-2
SCALE
NO SCALE
SHEET NO.

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

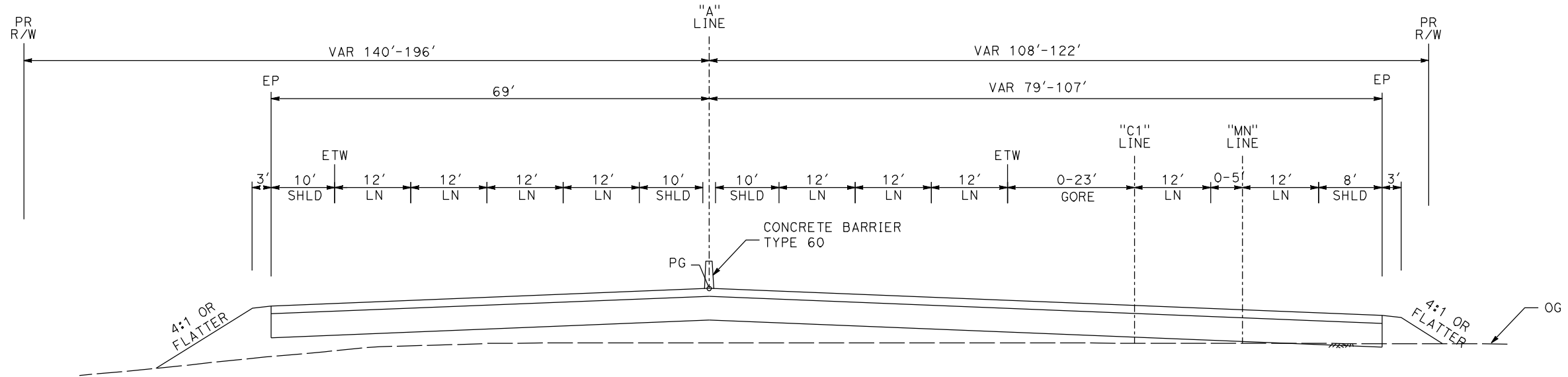
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS

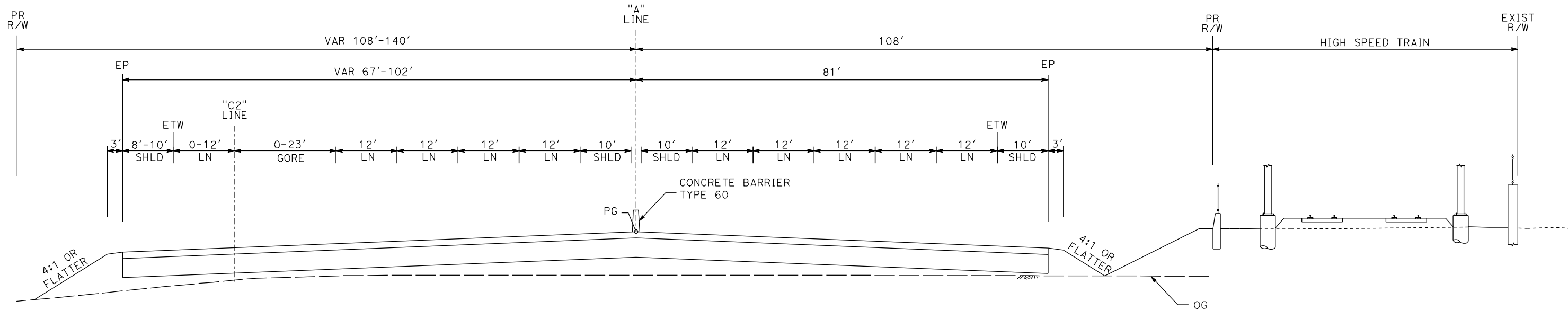
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DRAWING NO.	X-3
SCALE	NO SCALE
SHEET NO.	

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**

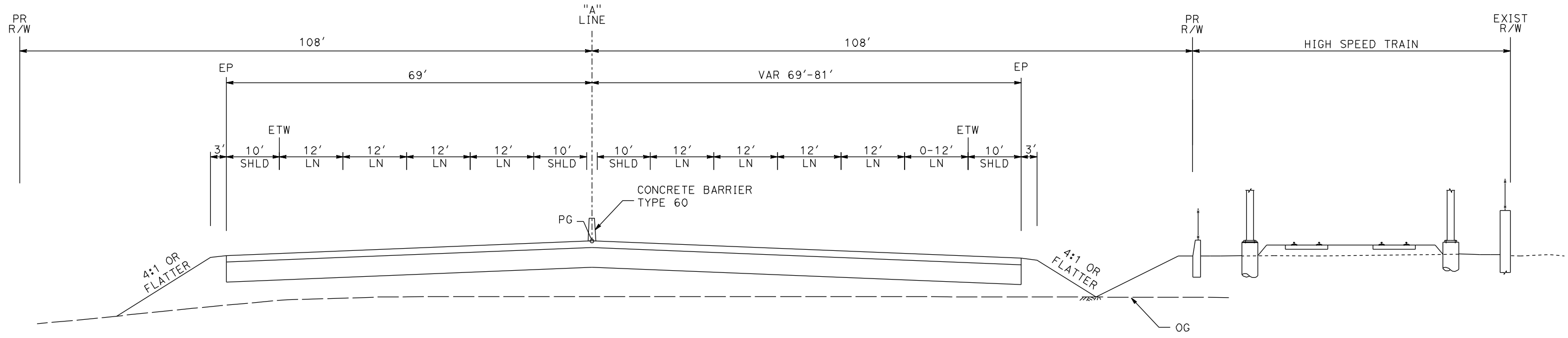
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

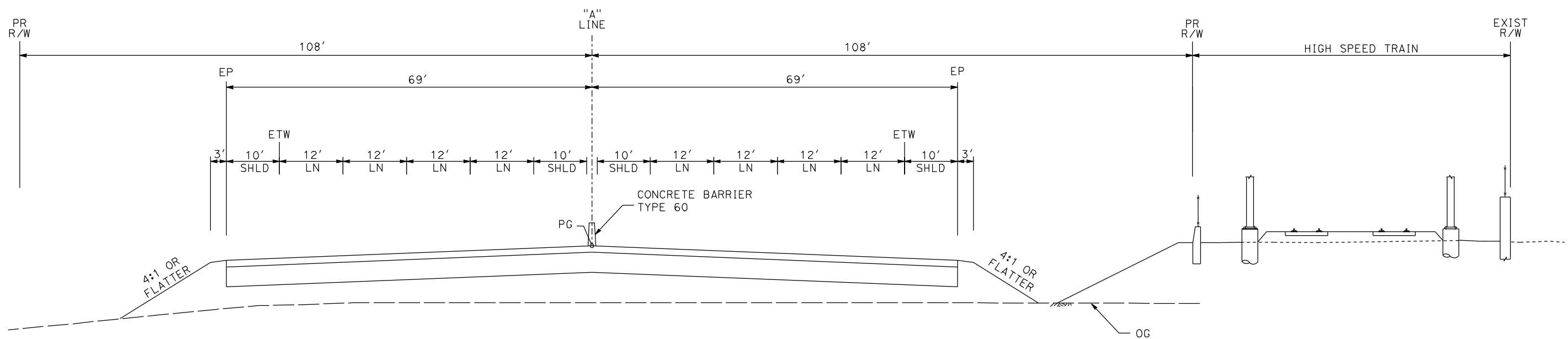
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DRAWING NO.	X-4
SCALE	NO SCALE
SHEET NO.	

DATE PLOTTED: 23-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

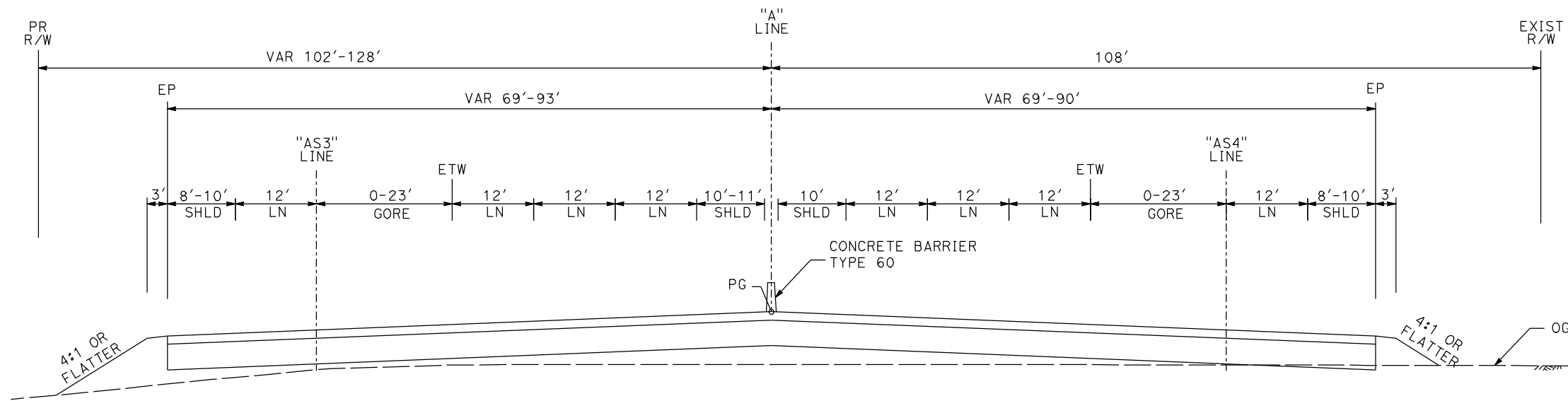
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS

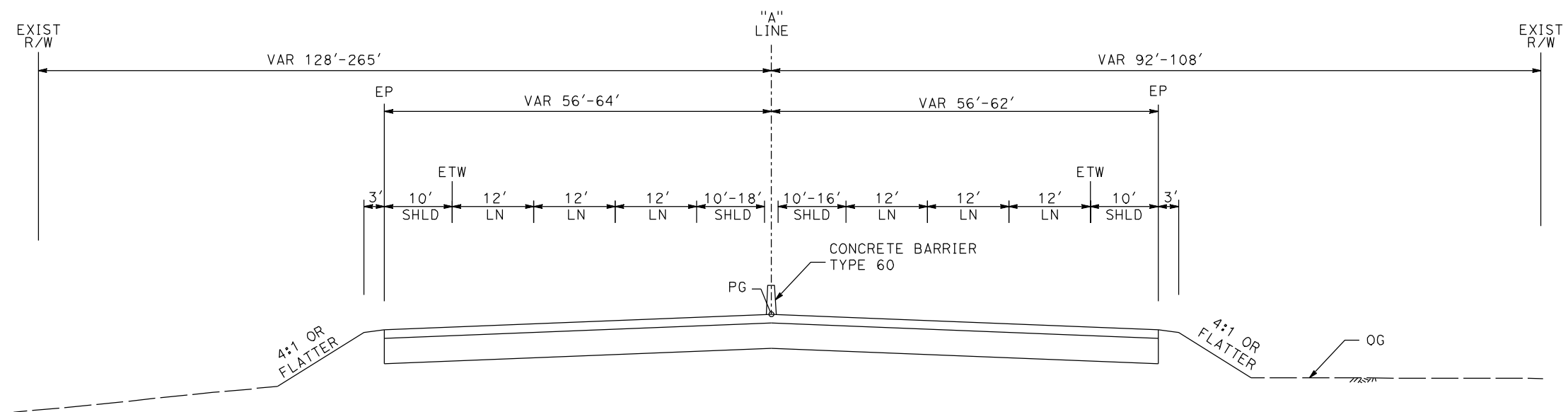
CONTRACT NO.
HSR06-007
DRAWING NO.
X-5
SCALE
NO SCALE
SHEET NO.

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

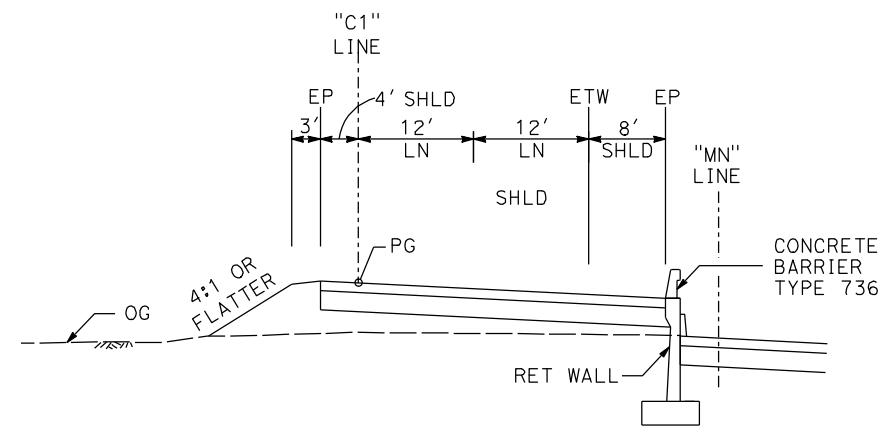
NOT FOR
CONSTRUCTION



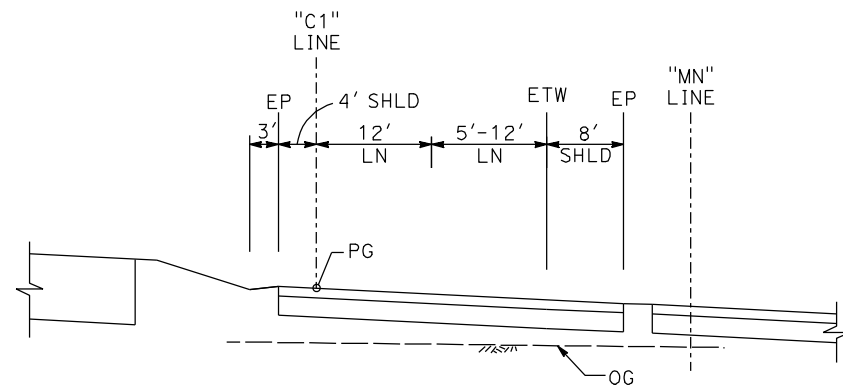
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS

CONTRACT NO.	HSR06-007
DRAWING NO.	X-6
SCALE	NO SCALE
SHEET NO.	

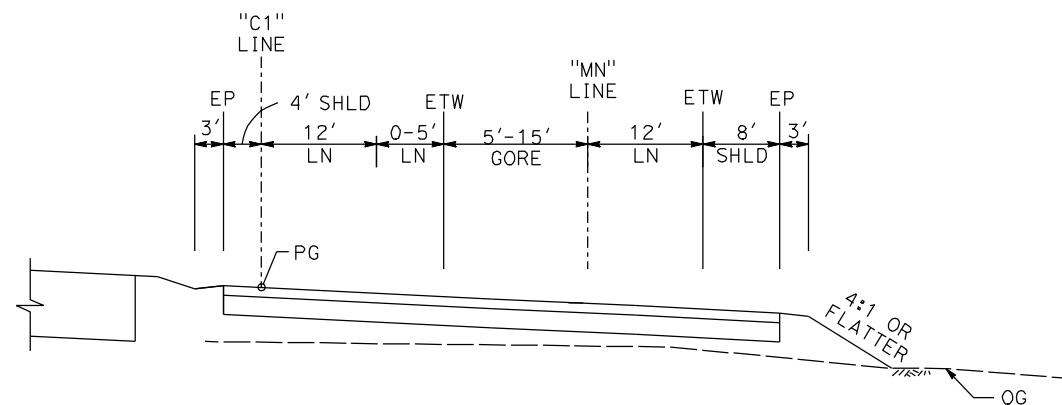
DATE PLOTTED => 26-APR-2011



142+10 TO 1147+31

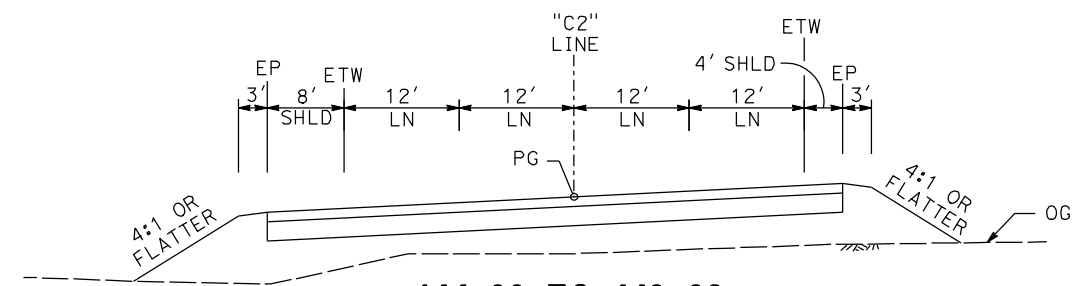


147+31 TO 149+07

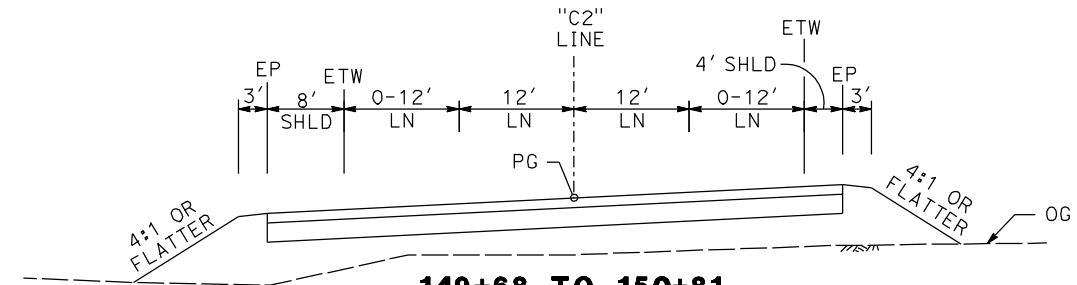


149+07 TO 152+15

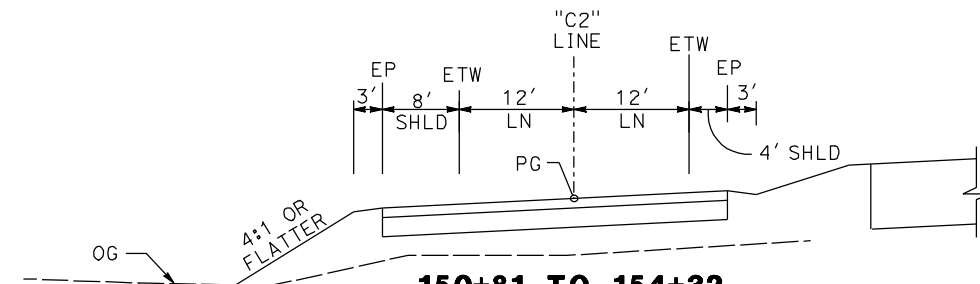
**C1 LINE
(NB ON RAMP AT CLINTON AVE)**



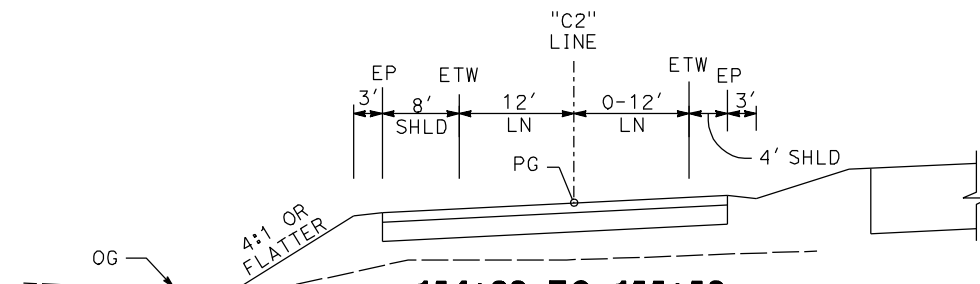
144+66 TO 149+68



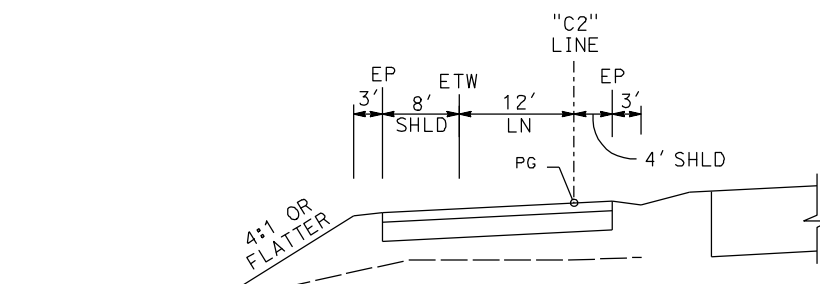
149+68 TO 150+81



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**

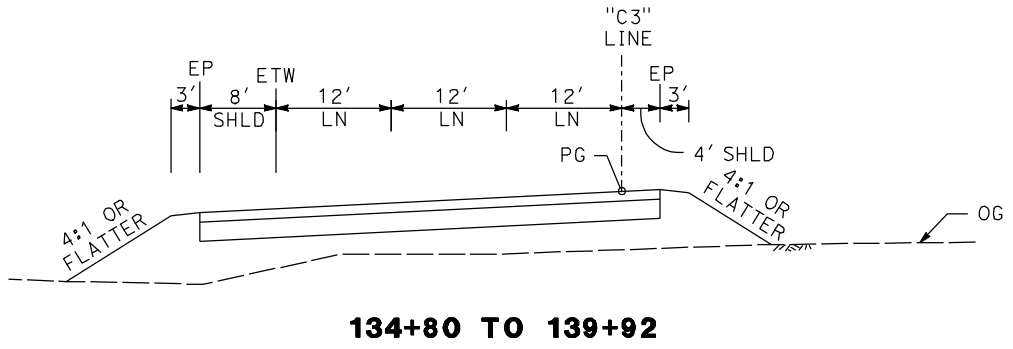
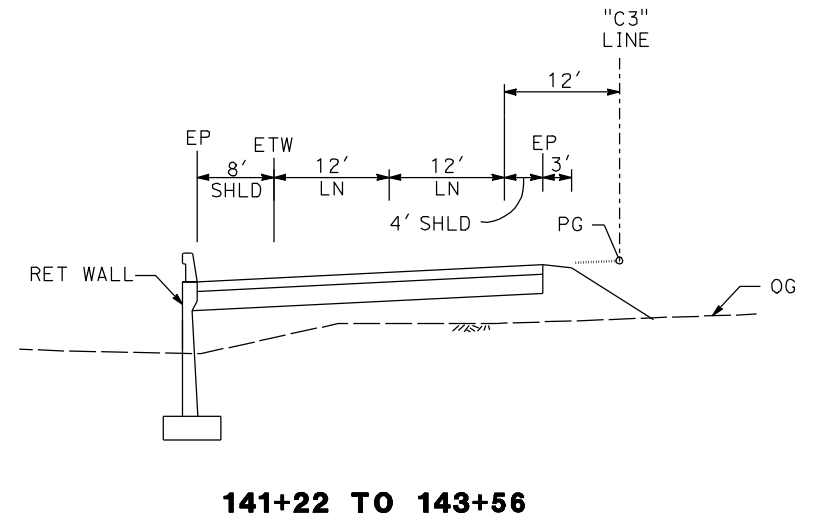
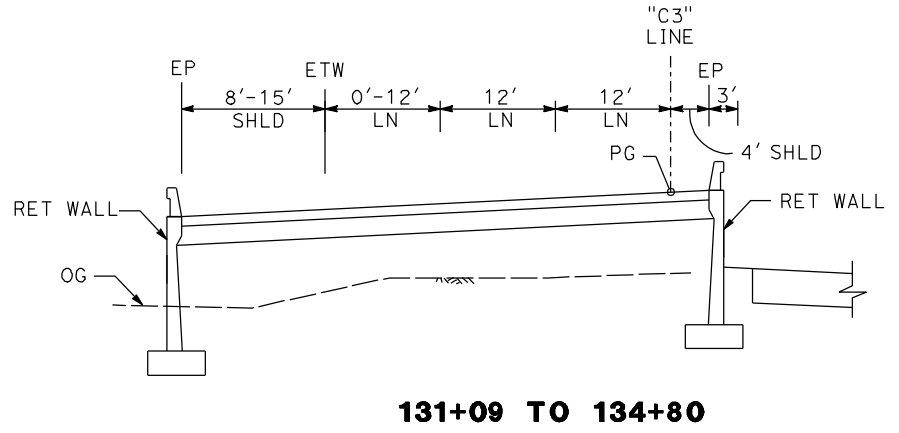
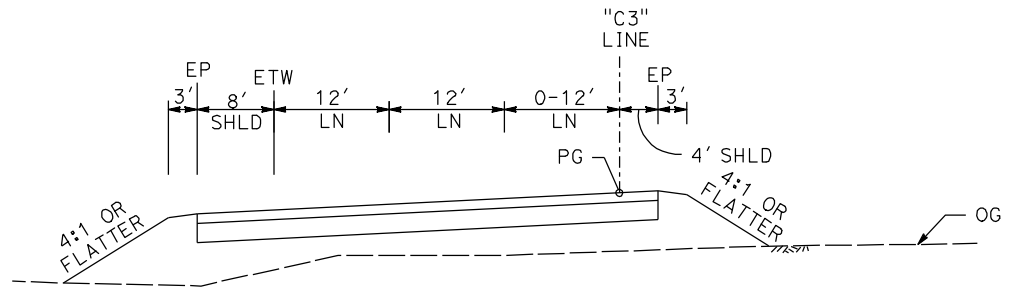
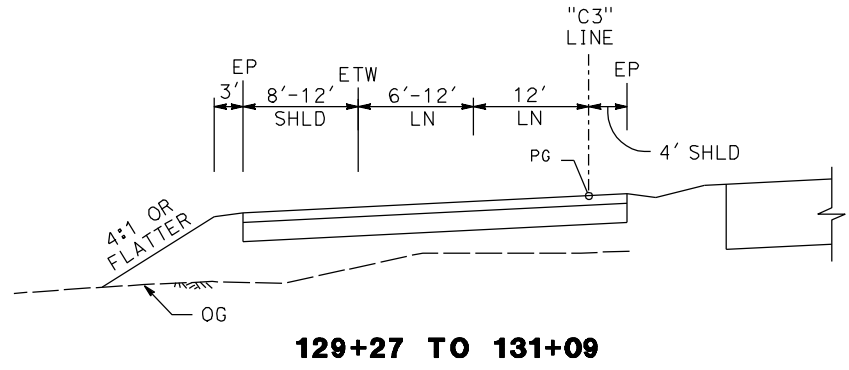
**NOT FOR
CONSTRUCTION**



**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

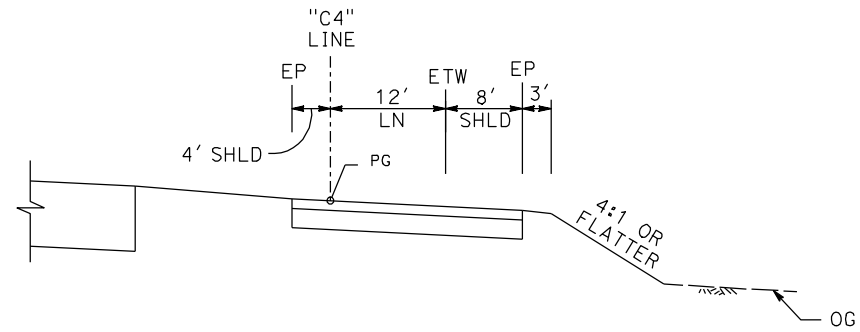
NOT FOR
CONSTRUCTION



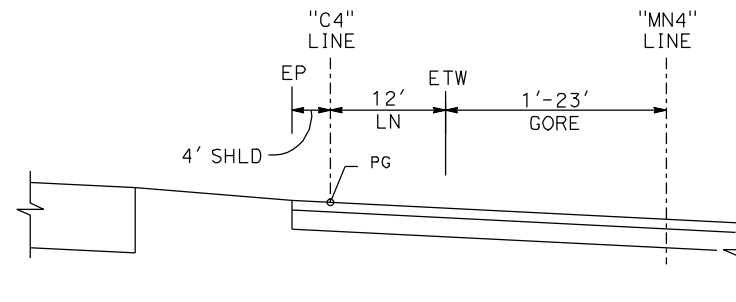
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS

CONTRACT NO.	HSR06-007
DRAWING NO.	X-8
SCALE	NO SCALE
SHEET NO.	

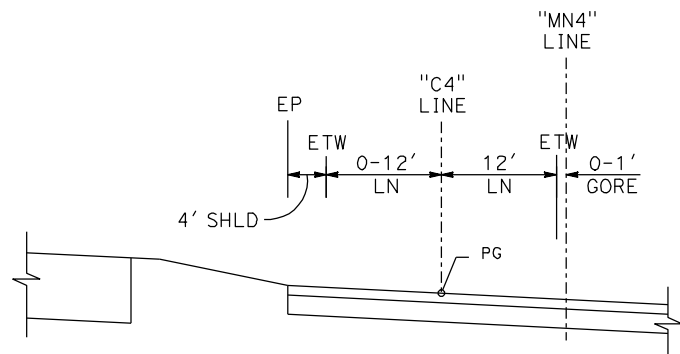
DATE PLOTTED => 26-APR-2011



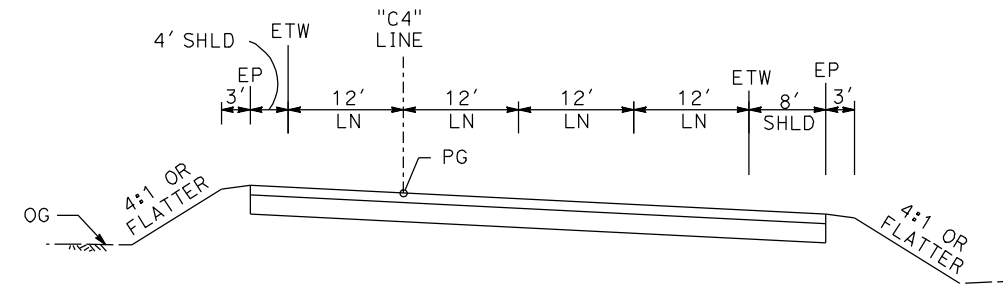
132+89 TO 133+20



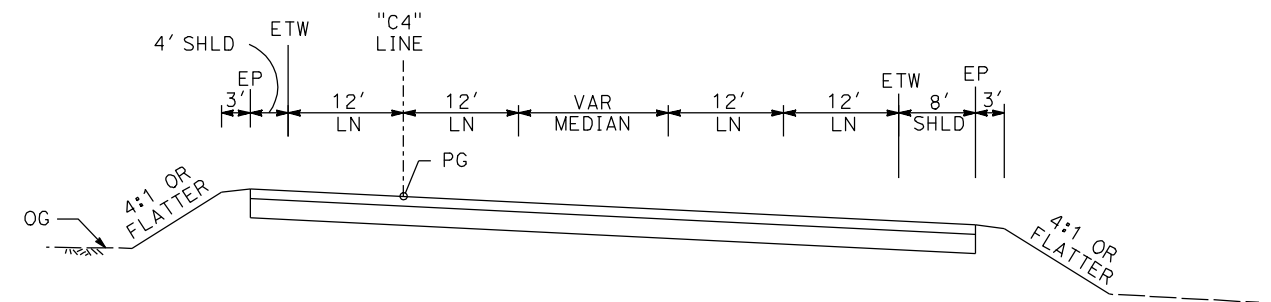
133+20 TO 134+72



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**

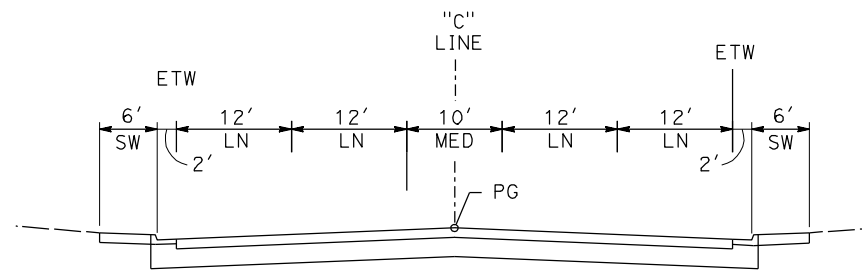
**NOT FOR
CONSTRUCTION**



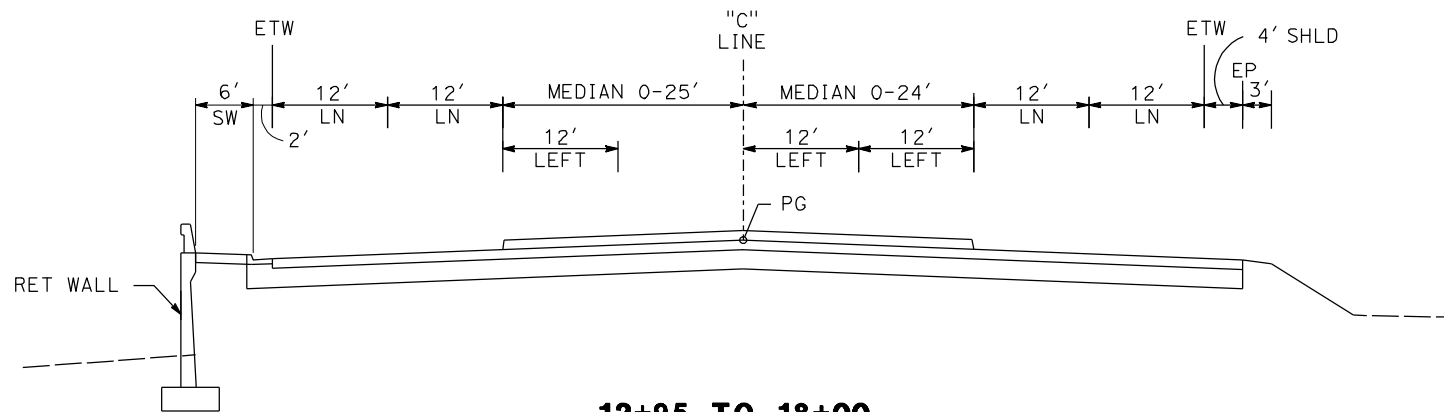
**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-9
SCALE
NO SCALE
SHEET NO.

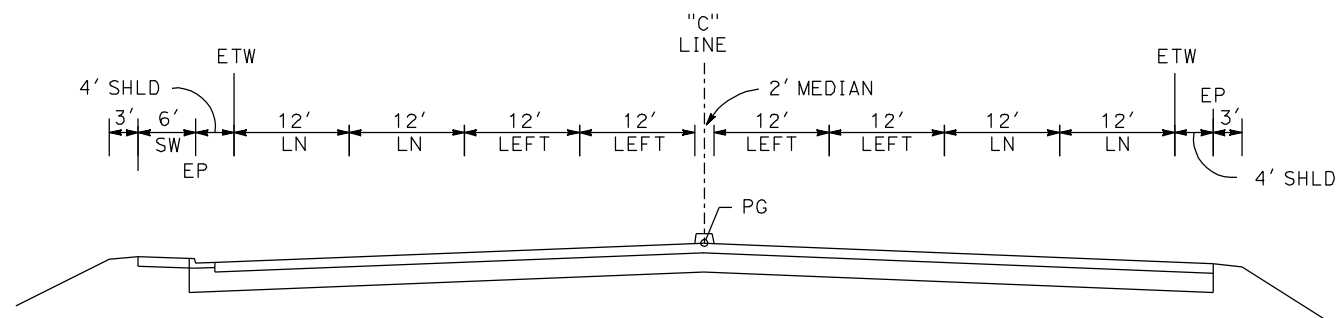
DATE PLOTTED: 23-APR-2011



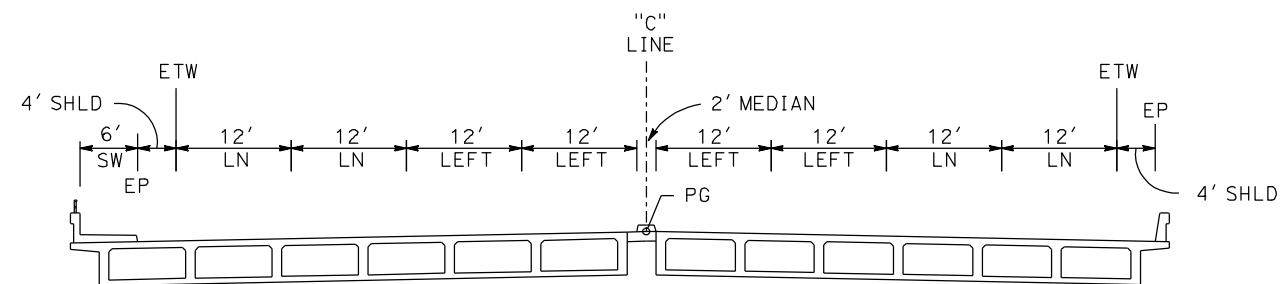
10+00 TO 12+95



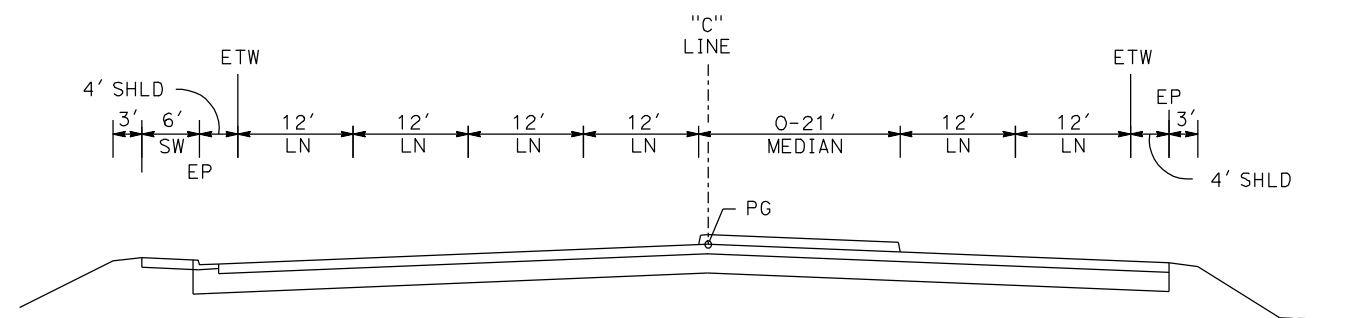
12+95 TO 18+00



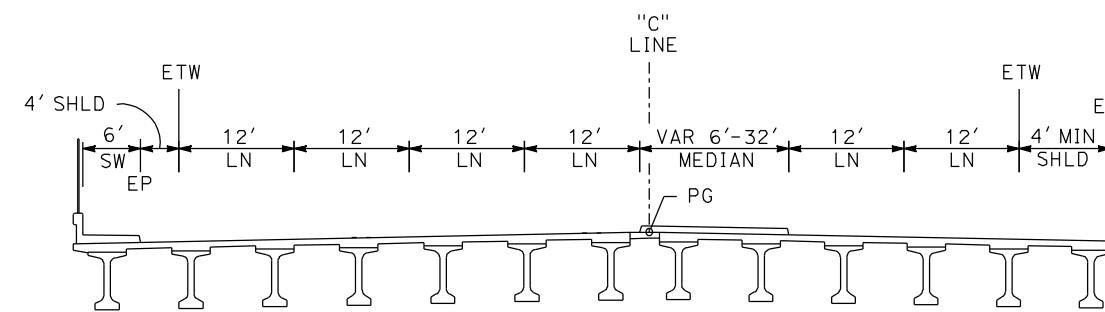
18+00 TO 19+66



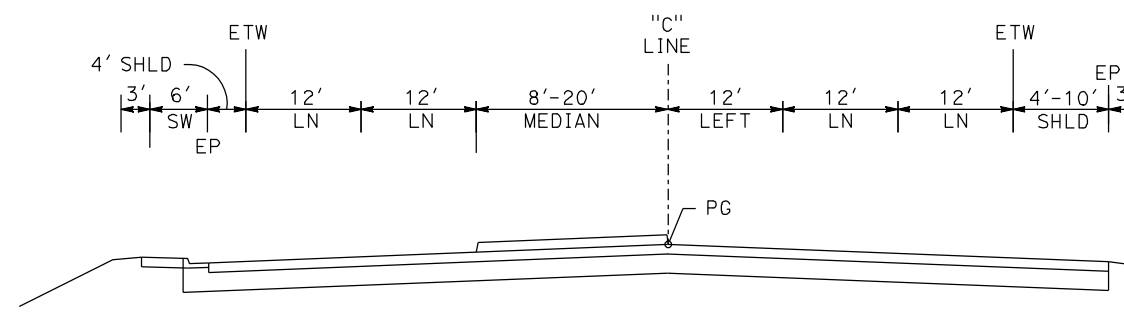
**19+66 TO 22+49
CLINTON AVE OC**



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**

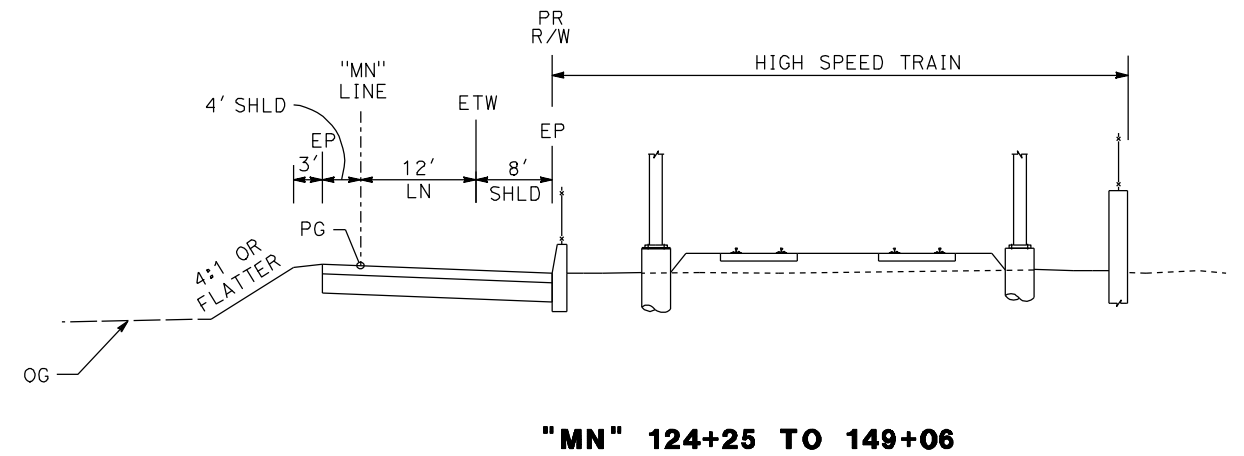
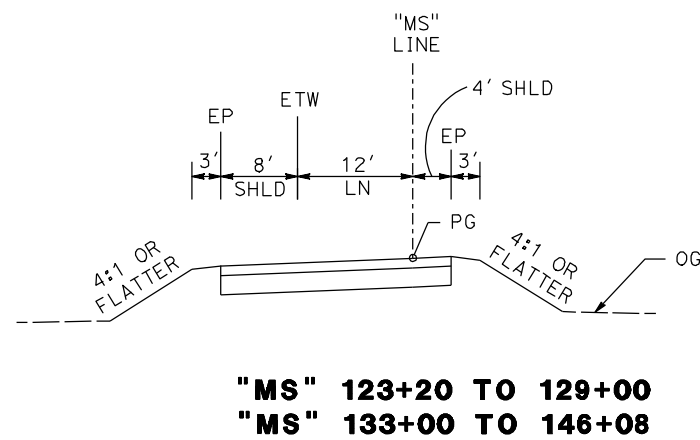
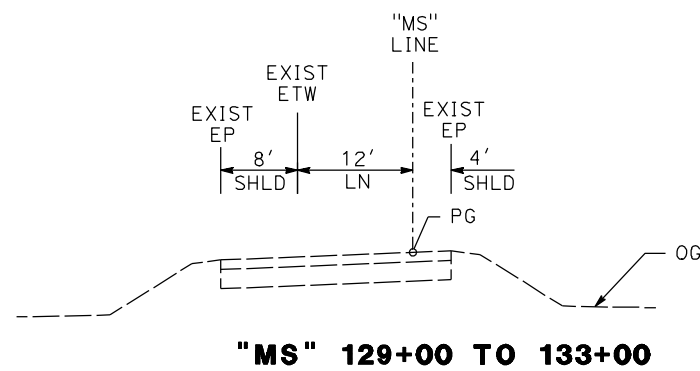
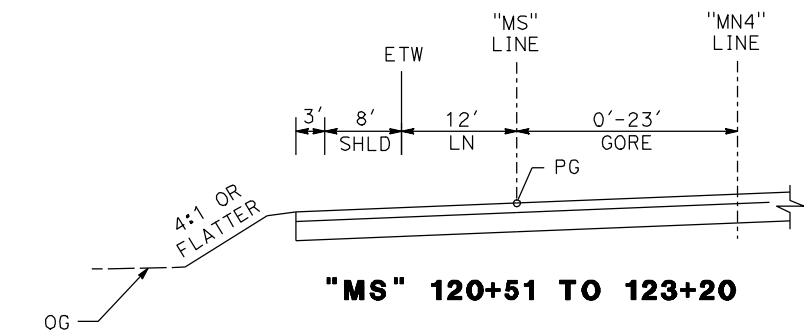
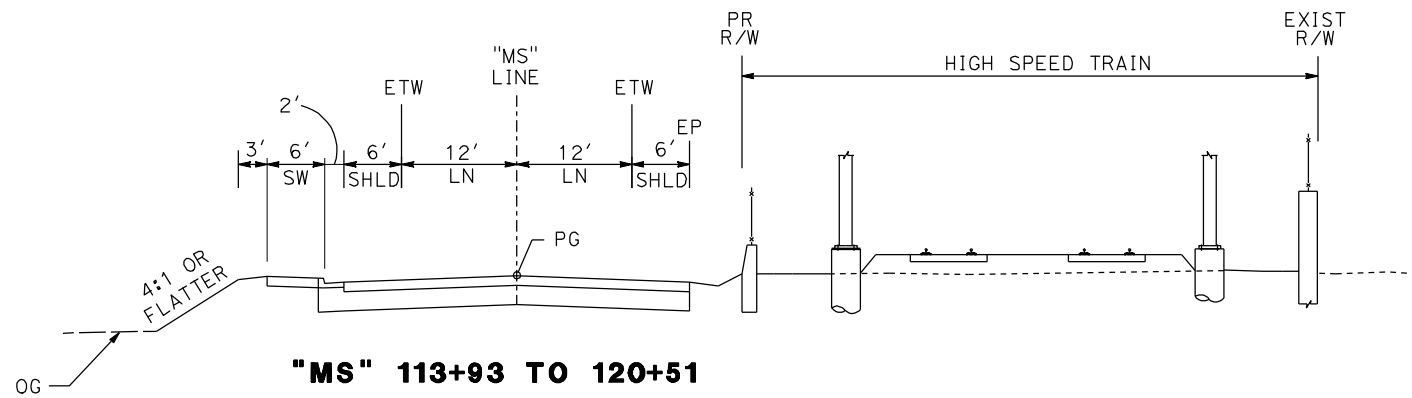
**NOT FOR
CONSTRUCTION**



**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 => 26-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

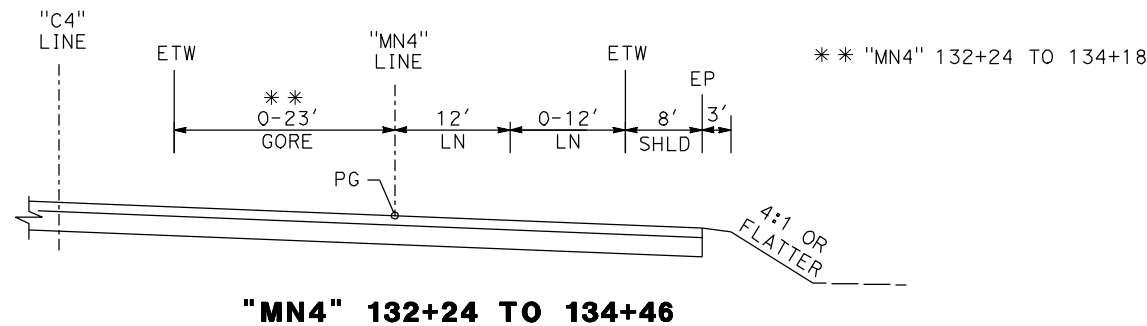
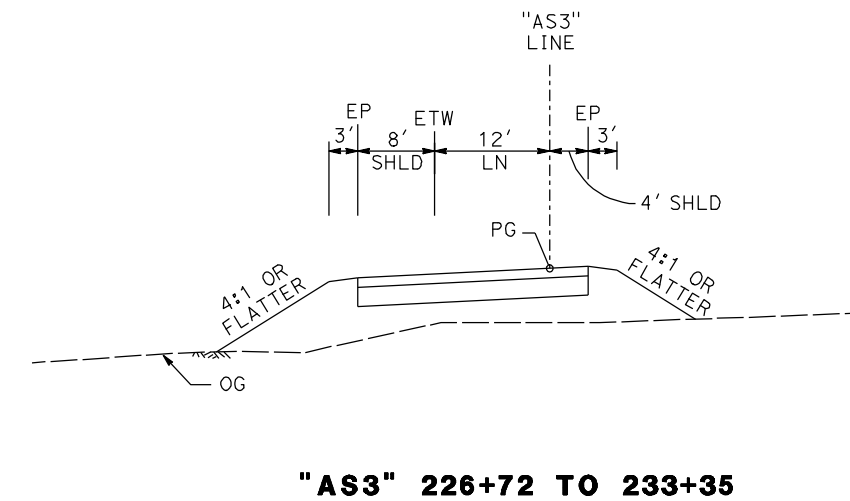
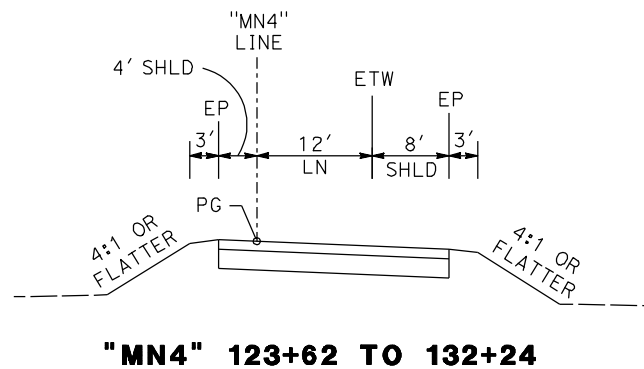
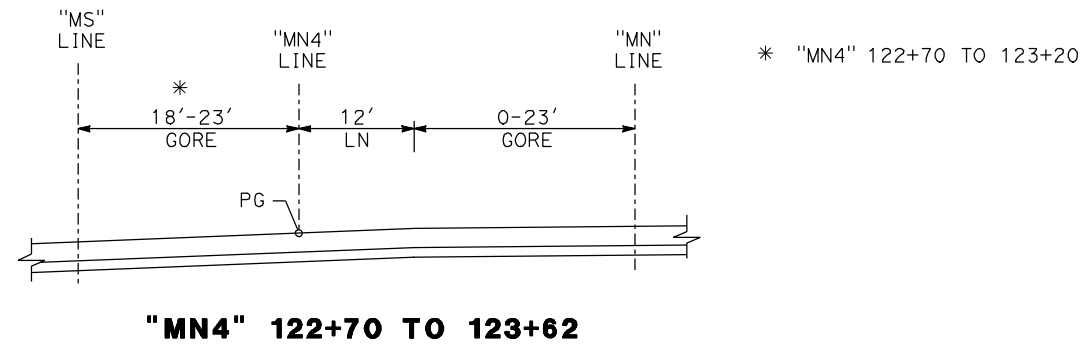
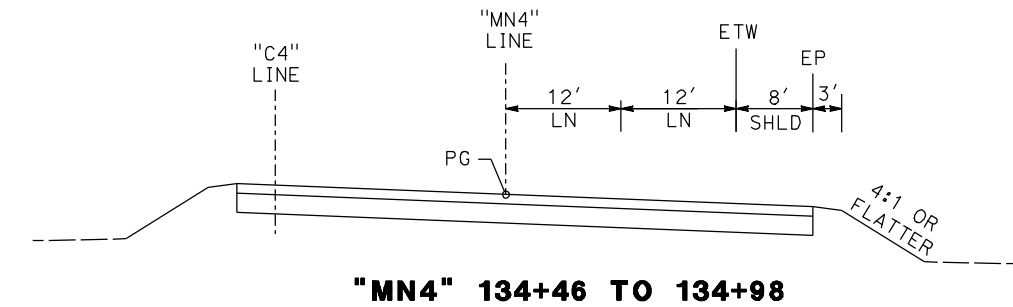
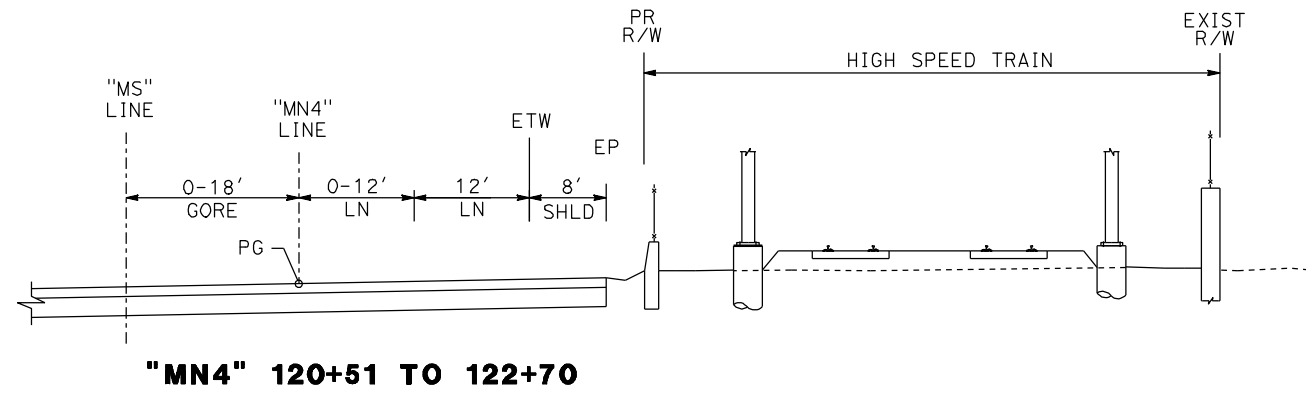
NOT FOR
CONSTRUCTION



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**

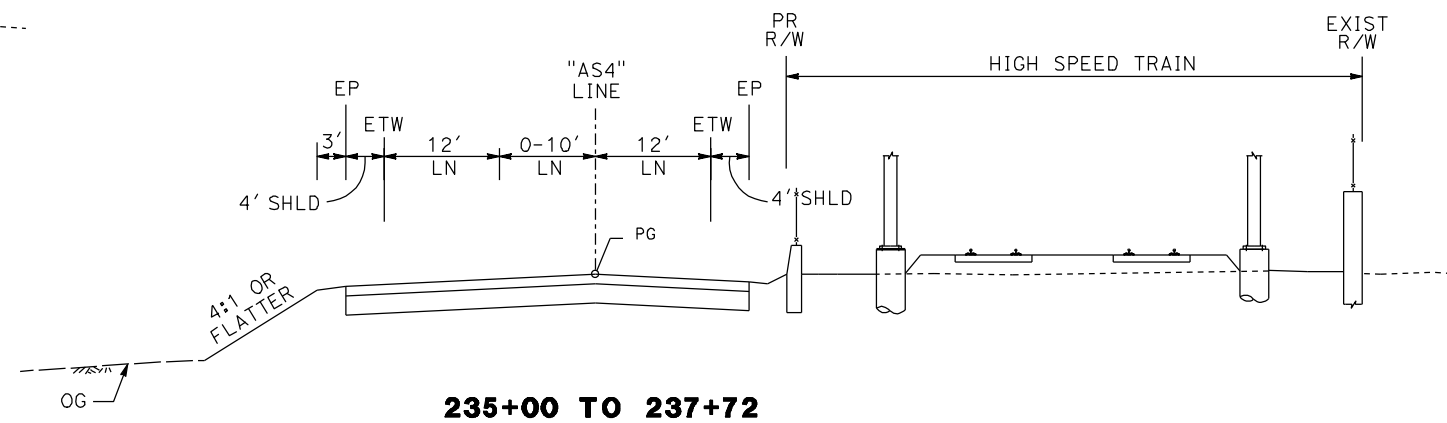
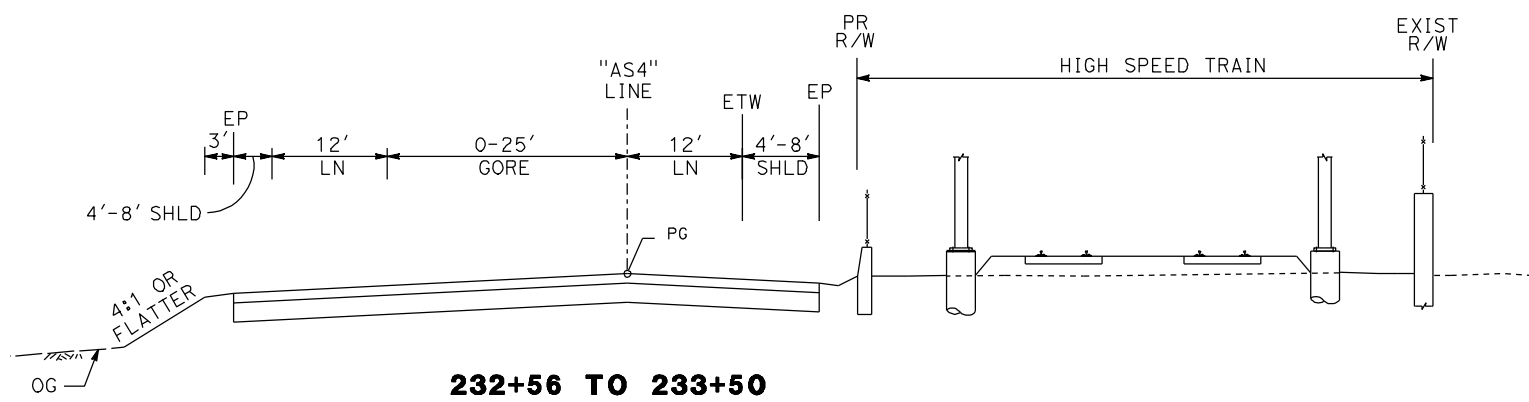
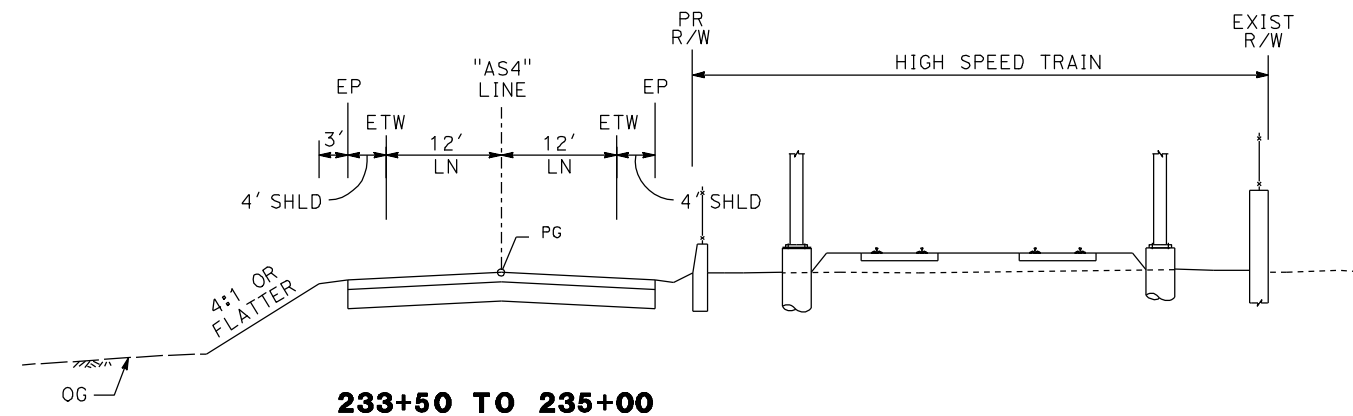
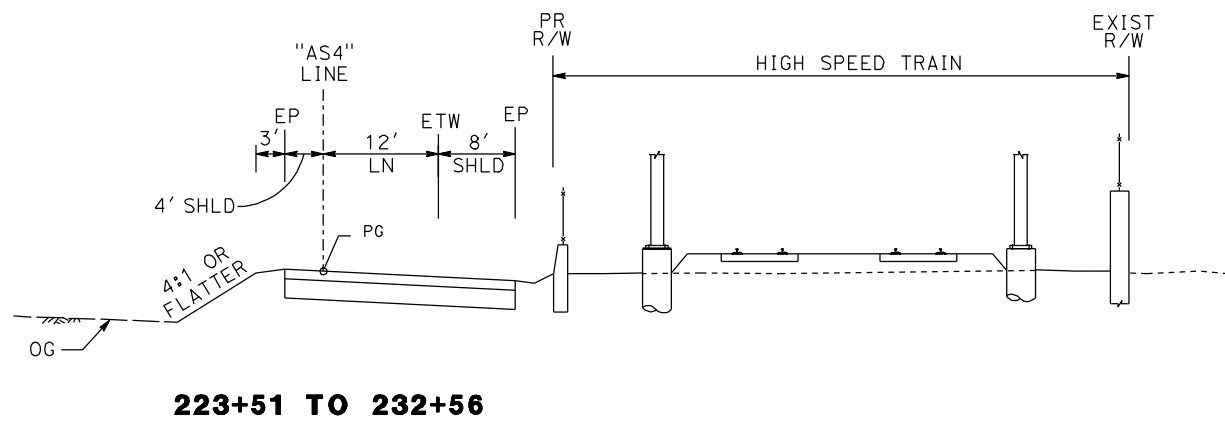
**NOT FOR
CONSTRUCTION**



**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 09:00 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**

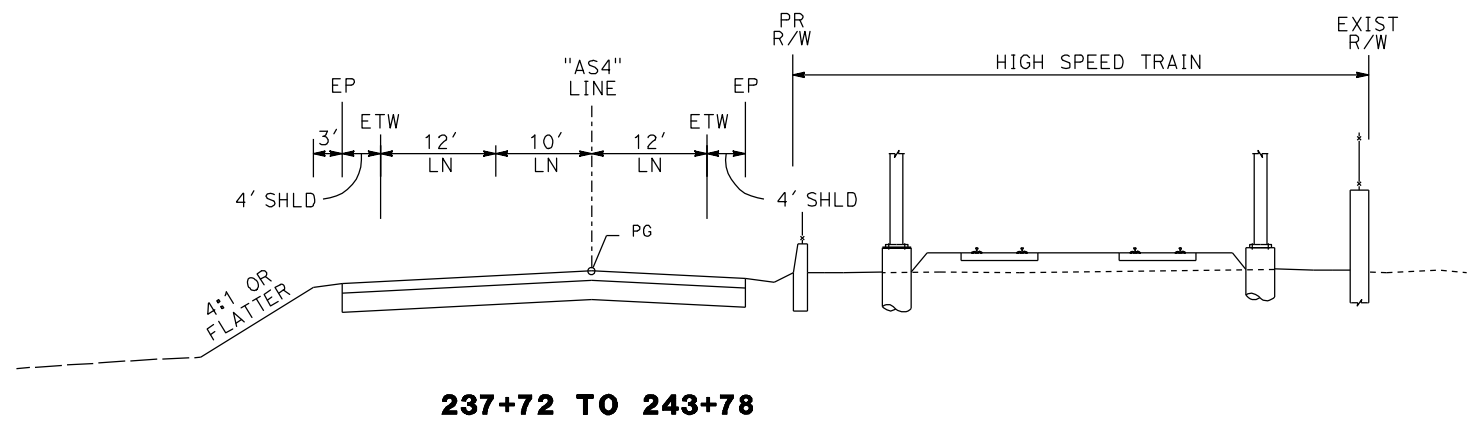
**NOT FOR
CONSTRUCTION**



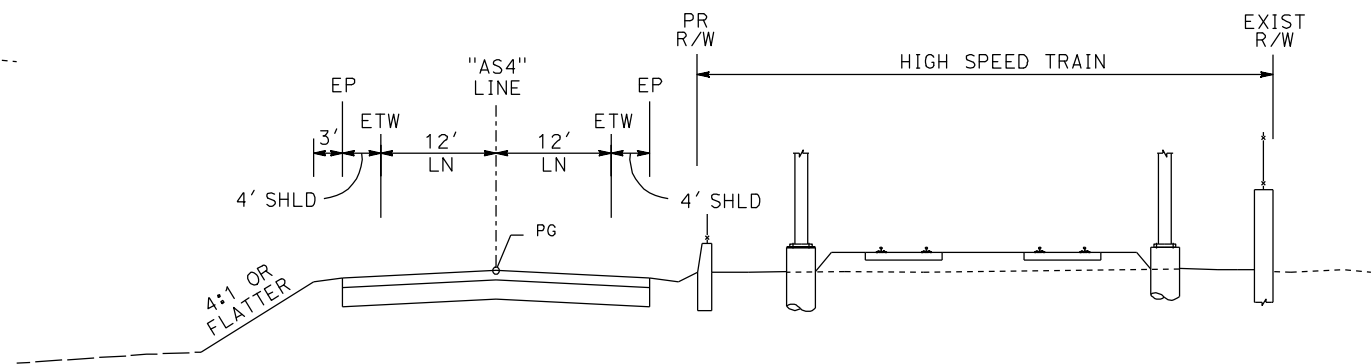
**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-13
SCALE
NO SCALE
SHEET NO.

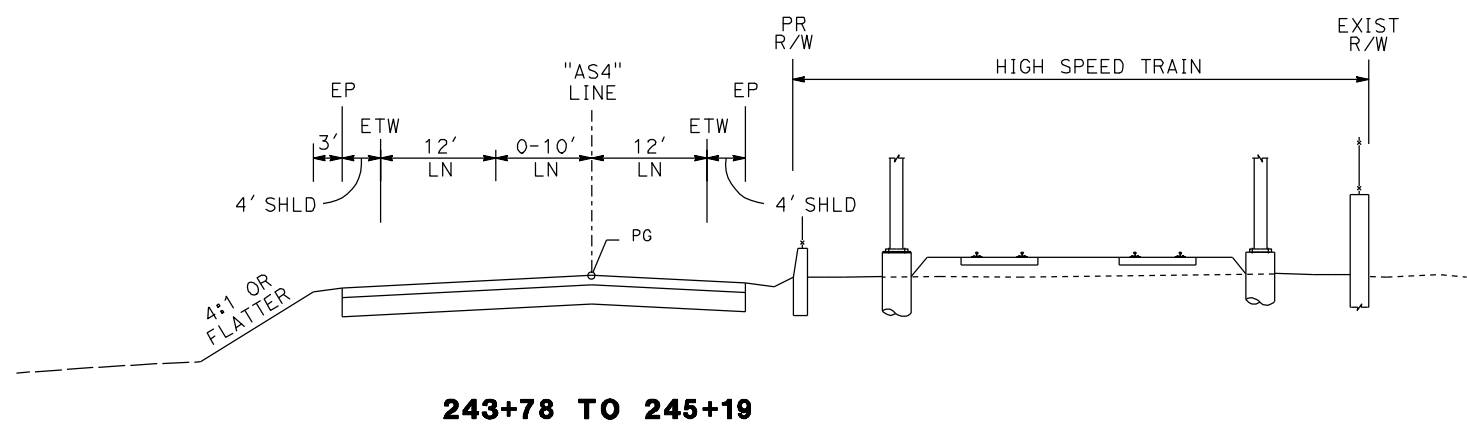
DATE PLOTTED => 26-APR-2011



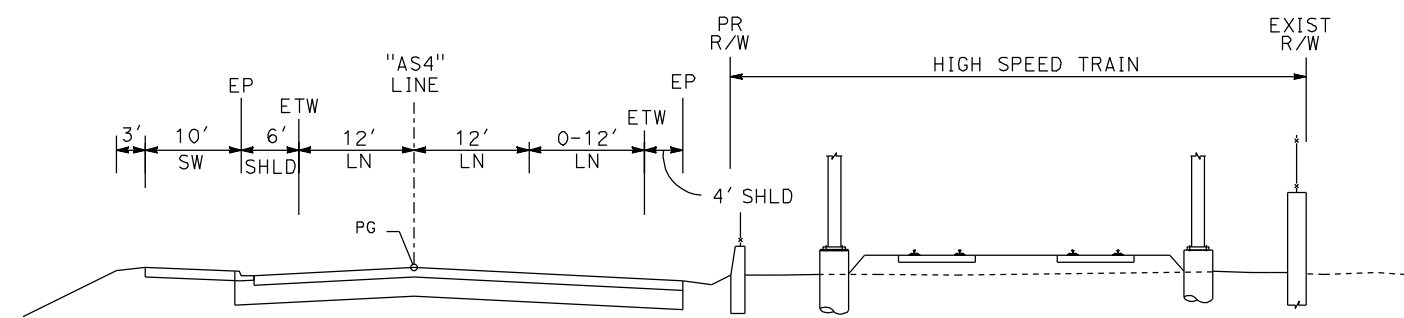
237+72 TO 243+78



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**

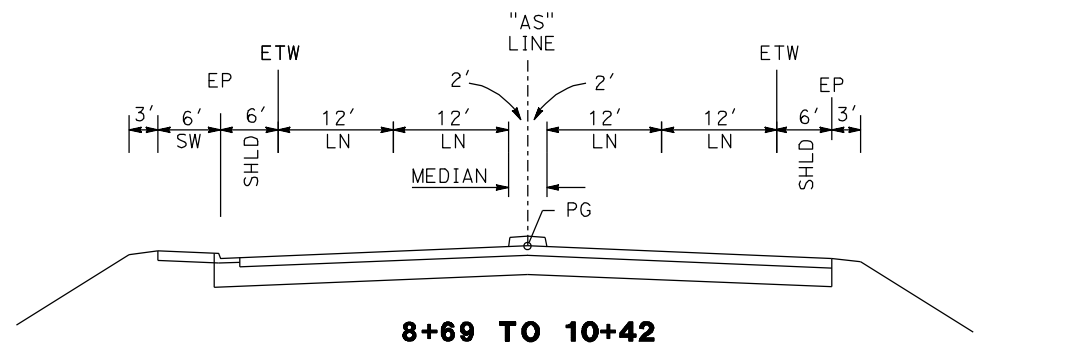
**NOT FOR
CONSTRUCTION**



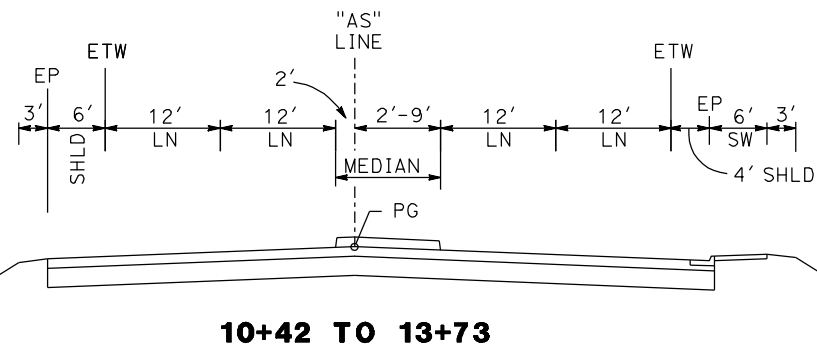
**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
TYPICAL CROSS SECTIONS**

CONTRACT NO.
HSR06-007
DRAWING NO.
X-14
SCALE
NO SCALE
SHEET NO.

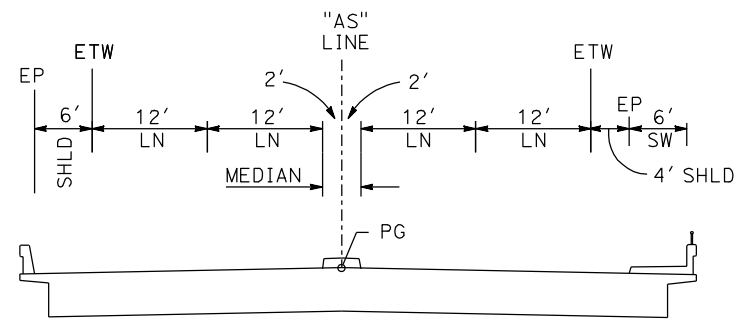
DATE PLOTTED => 26-APR-2011



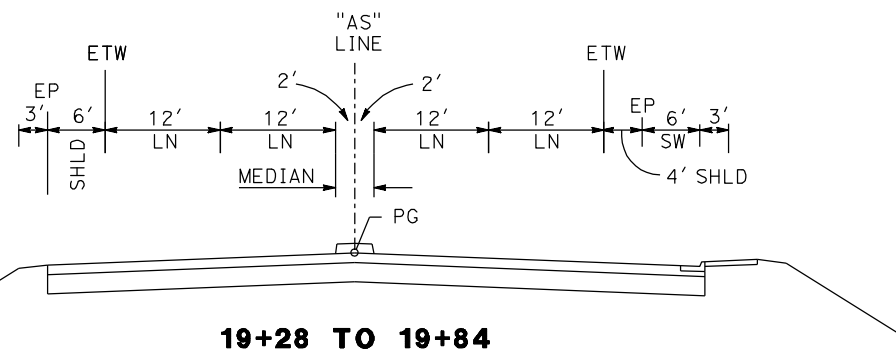
8+69 TO 10+42



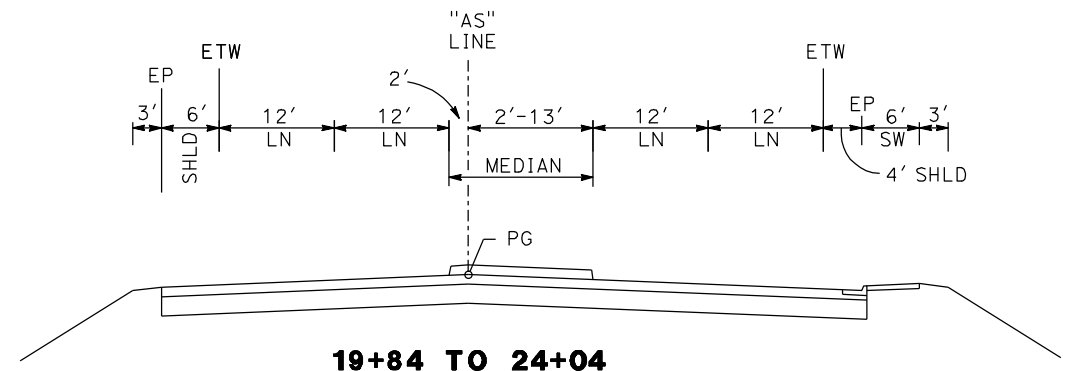
10+42 TO 13+73



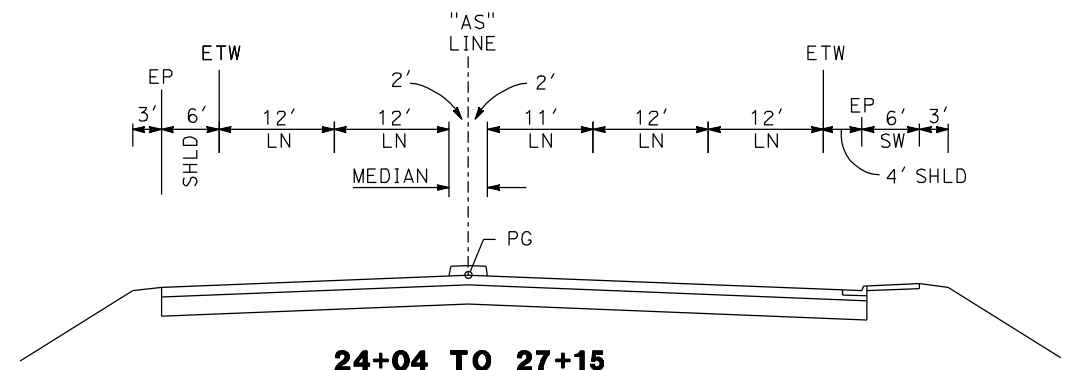
13+73 TO 19+28



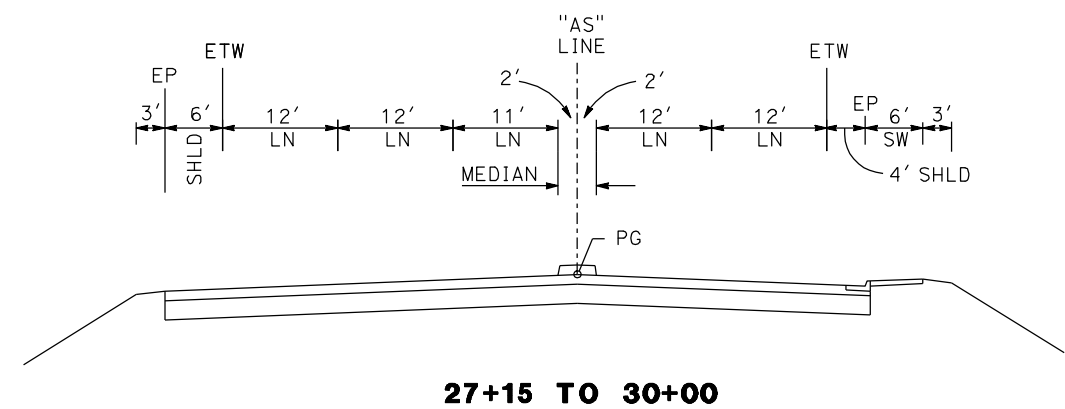
19+28 TO 19+84



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**

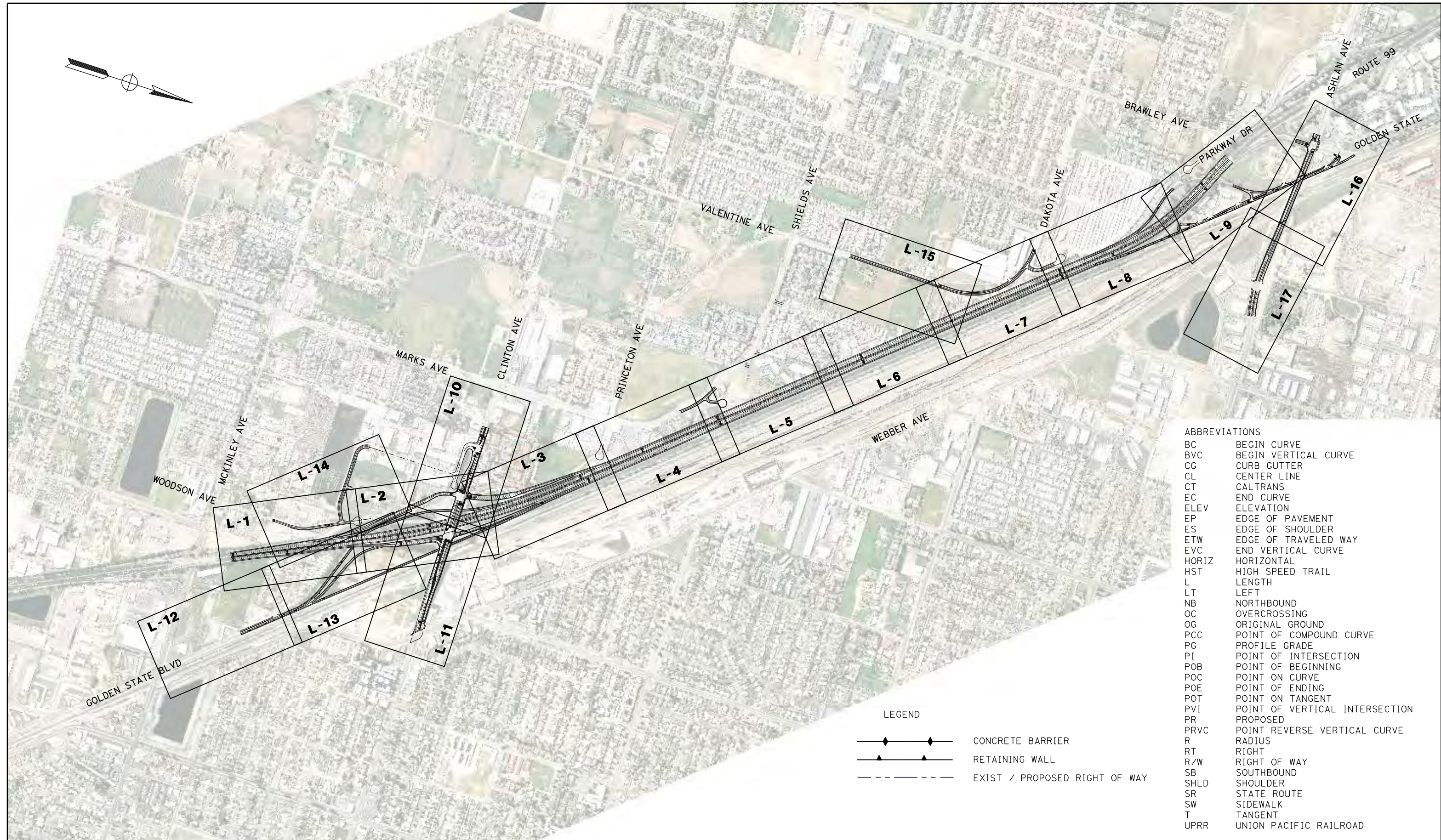
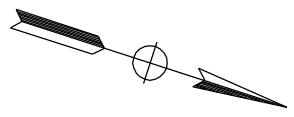
**NOT FOR
CONSTRUCTION**



**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: 03/26/11



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 RAIL AUTHORITY

CALIFORNIA HIGH SPEED TRAIN PROJECT

MERCED TO FRESNO

ROUTE 99 RE-ALIGNMENT

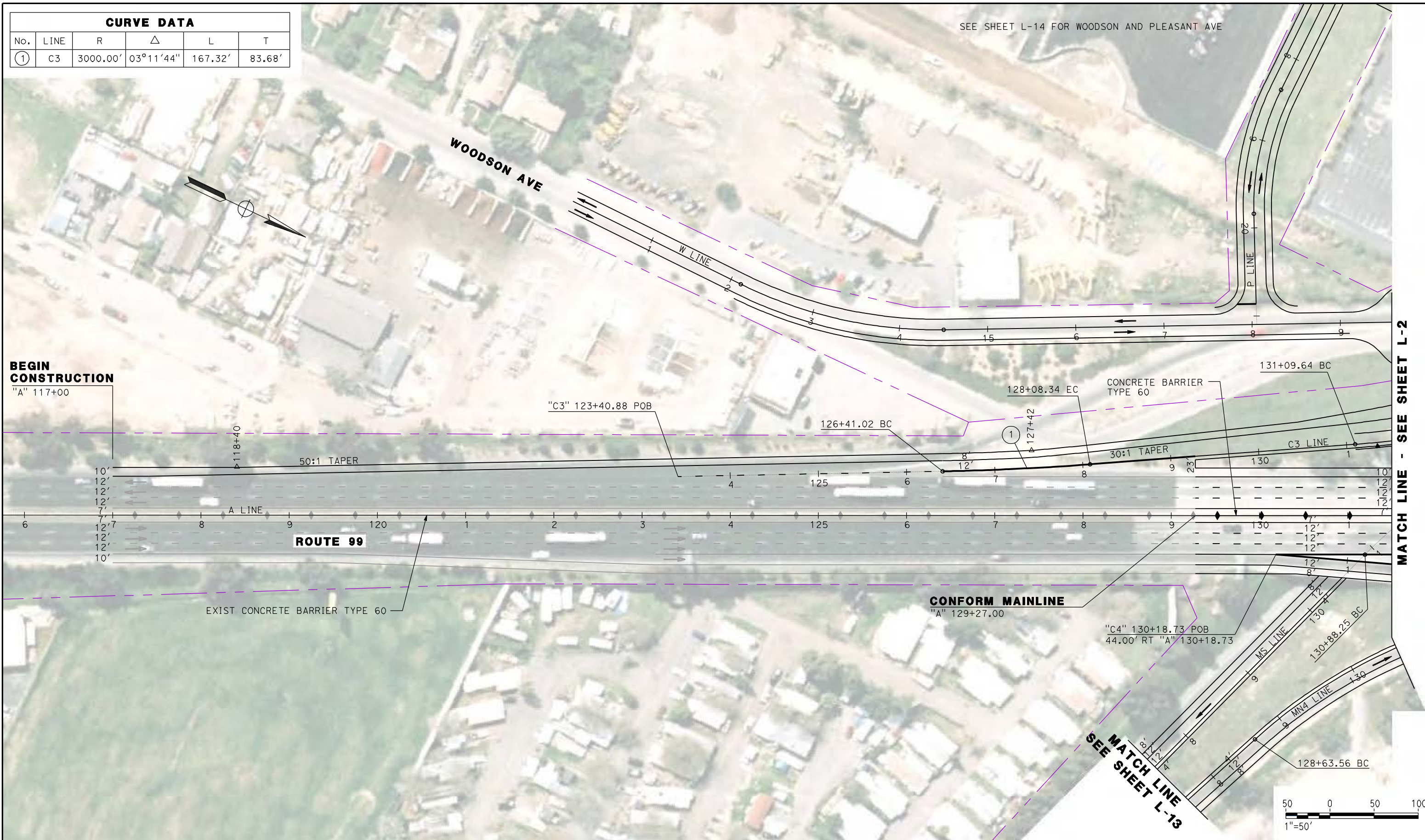
KEY MAP

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

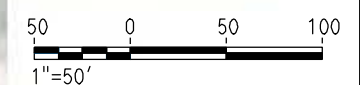
"A" 117+00

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

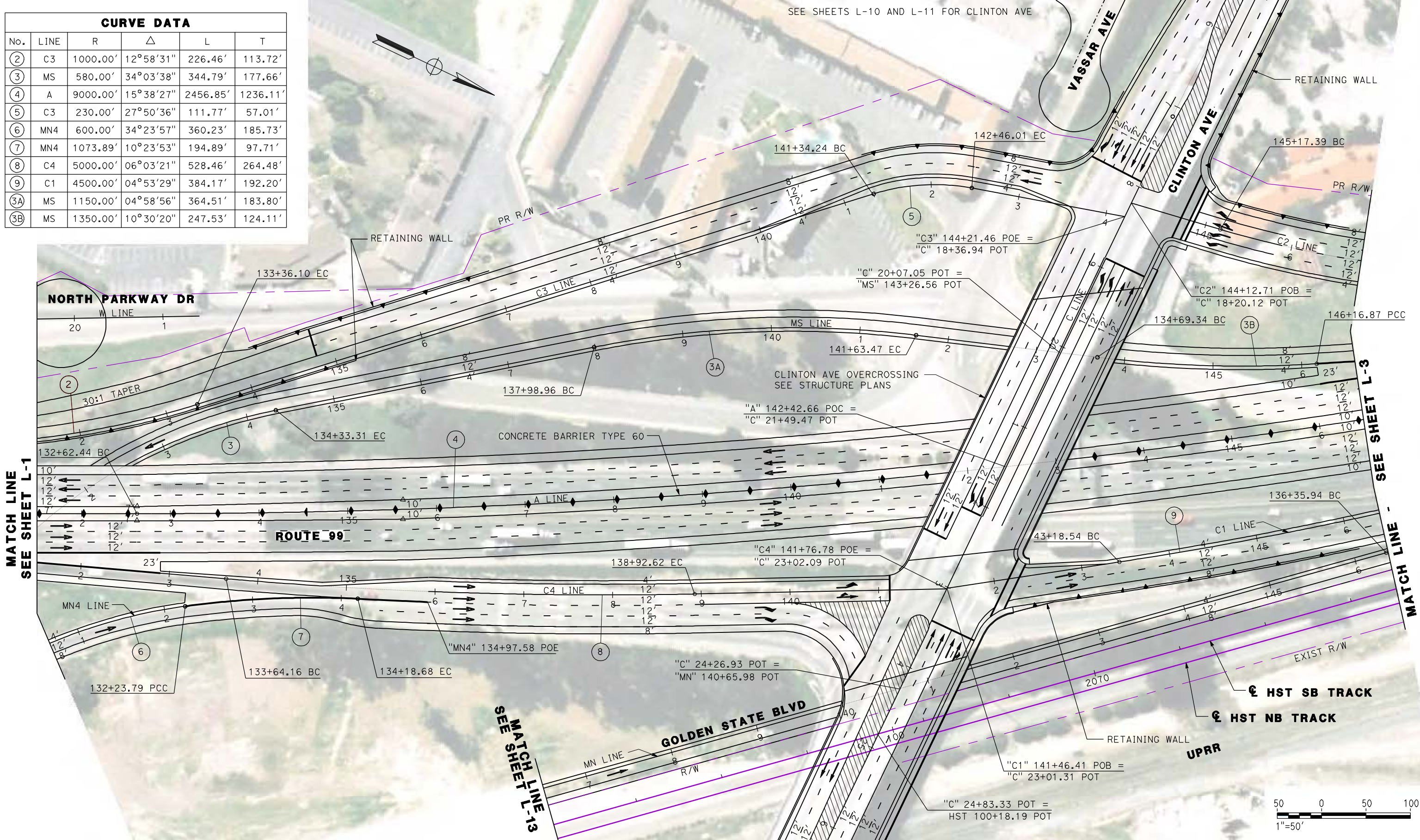


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
DRAWING NO.
L-1
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11

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

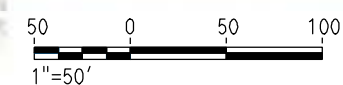
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007

DRAWING NO.
L-2

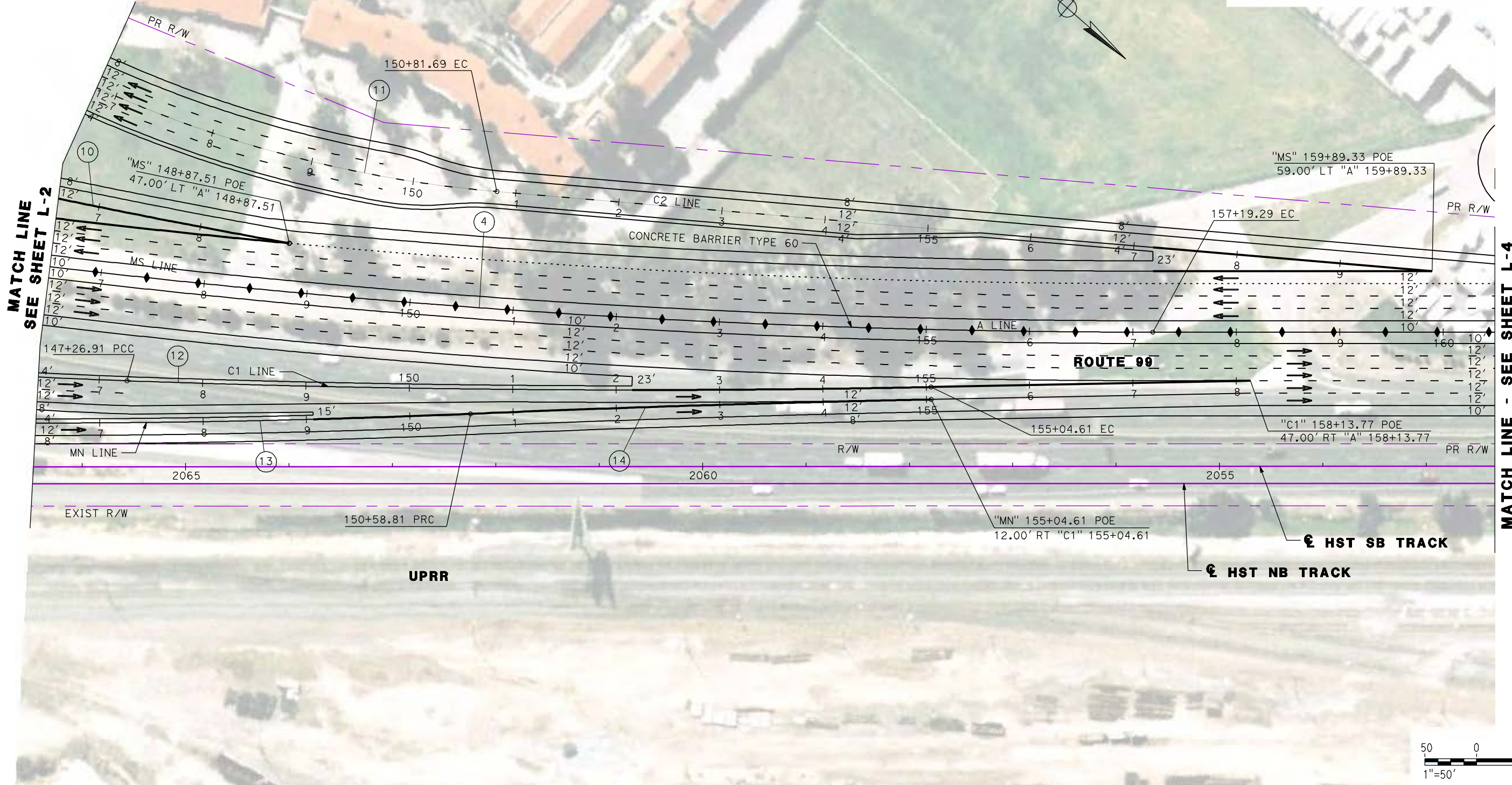
SCALE
AS SHOWN

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

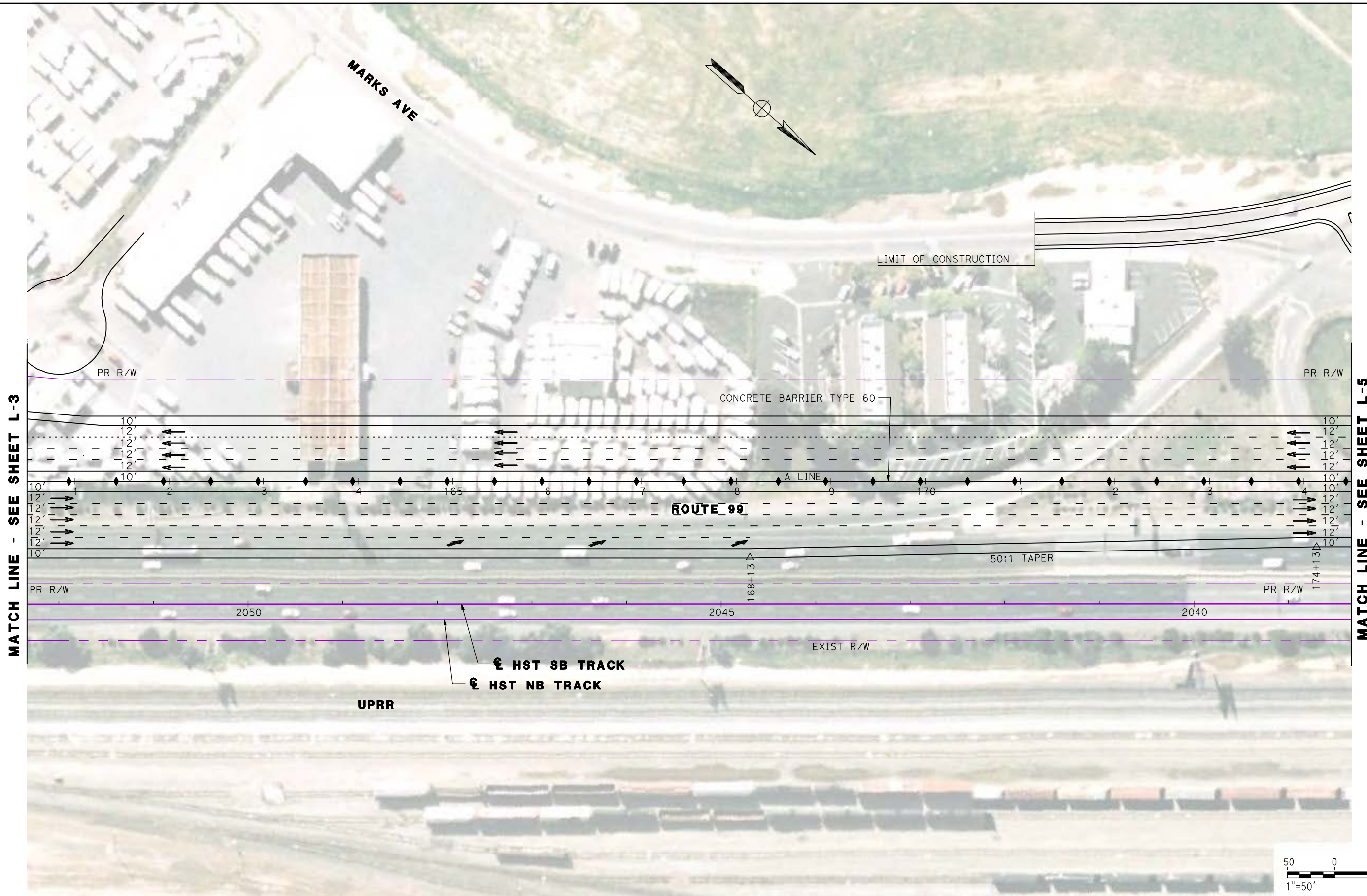
NOT FOR
CONSTRUCTION



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

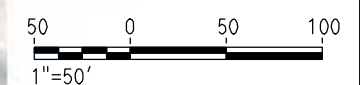
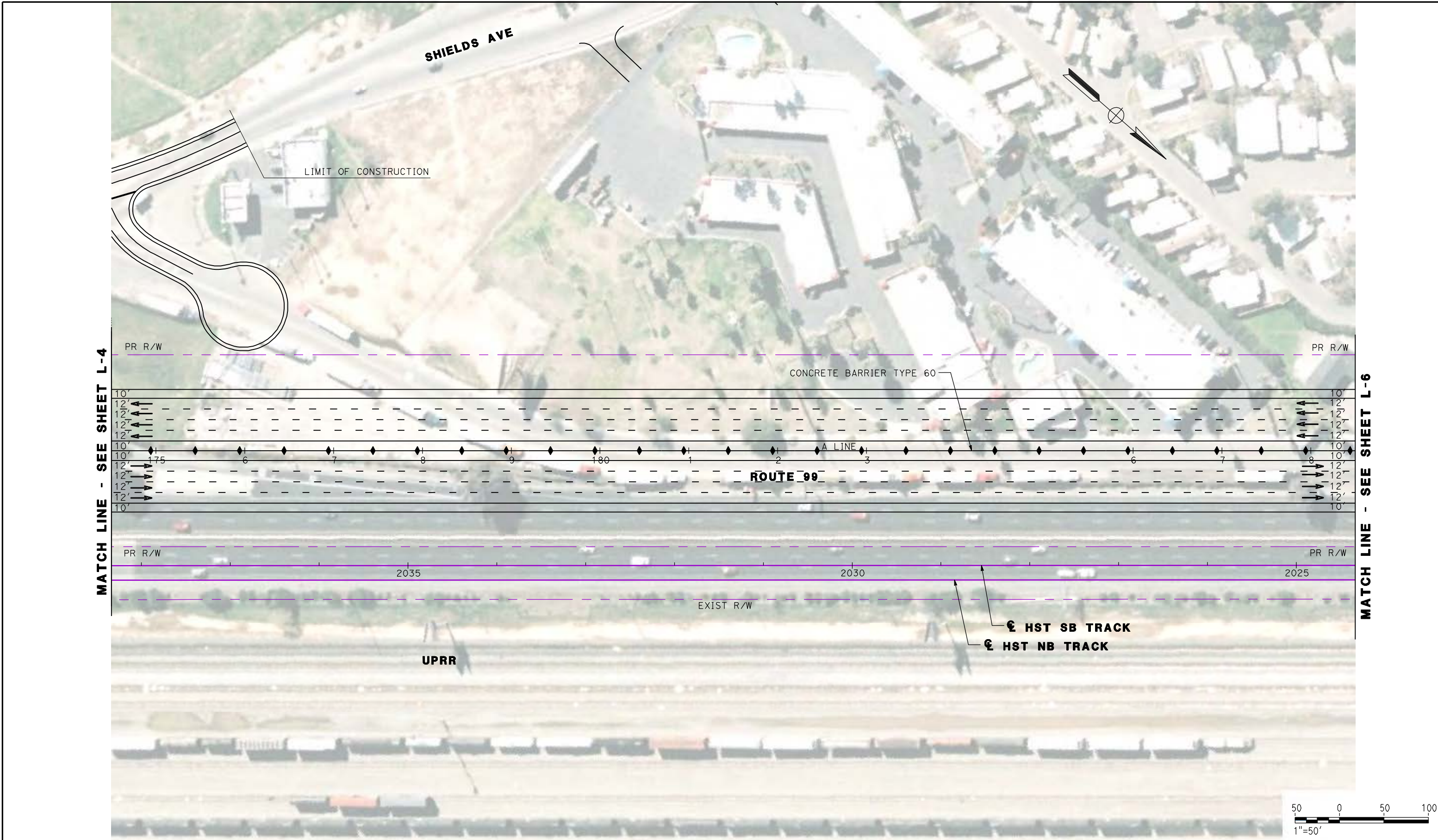
NOT FOR
CONSTRUCTION



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

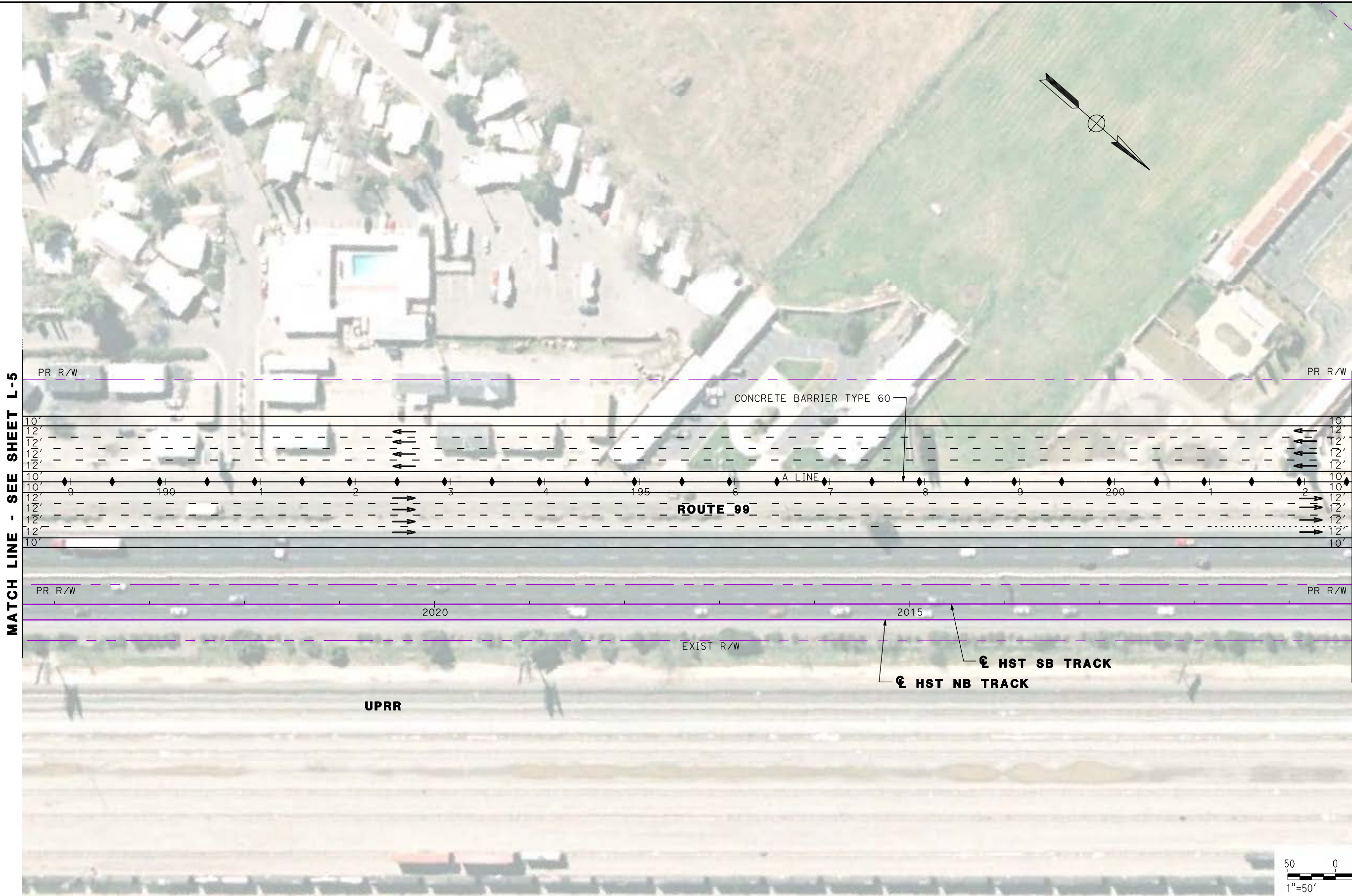
NOT FOR
CONSTRUCTION



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: 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

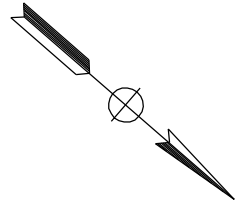


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
 HSR06-007
 DRAWING NO.
L-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

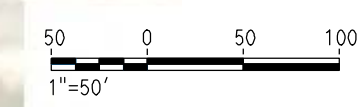
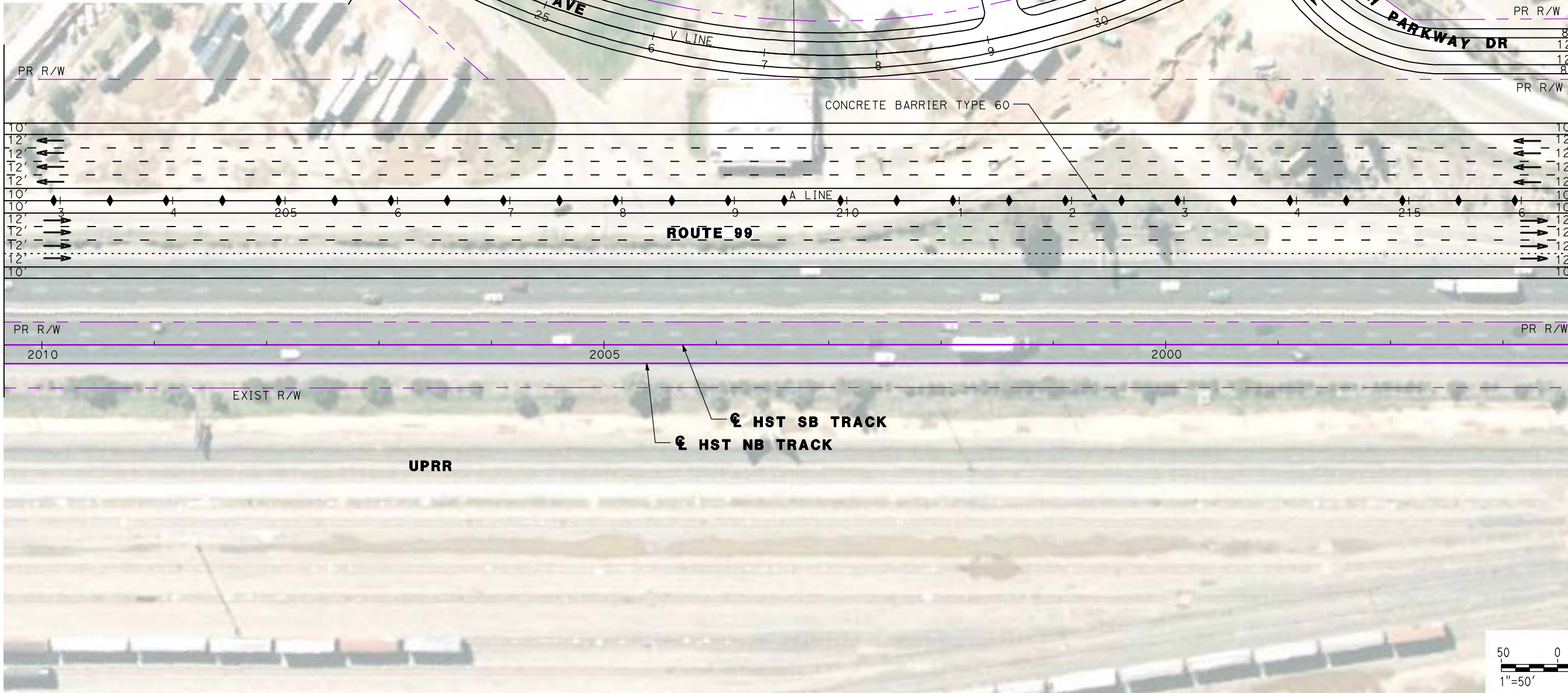
MATCH LINE
SEE SHEET L-15

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

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

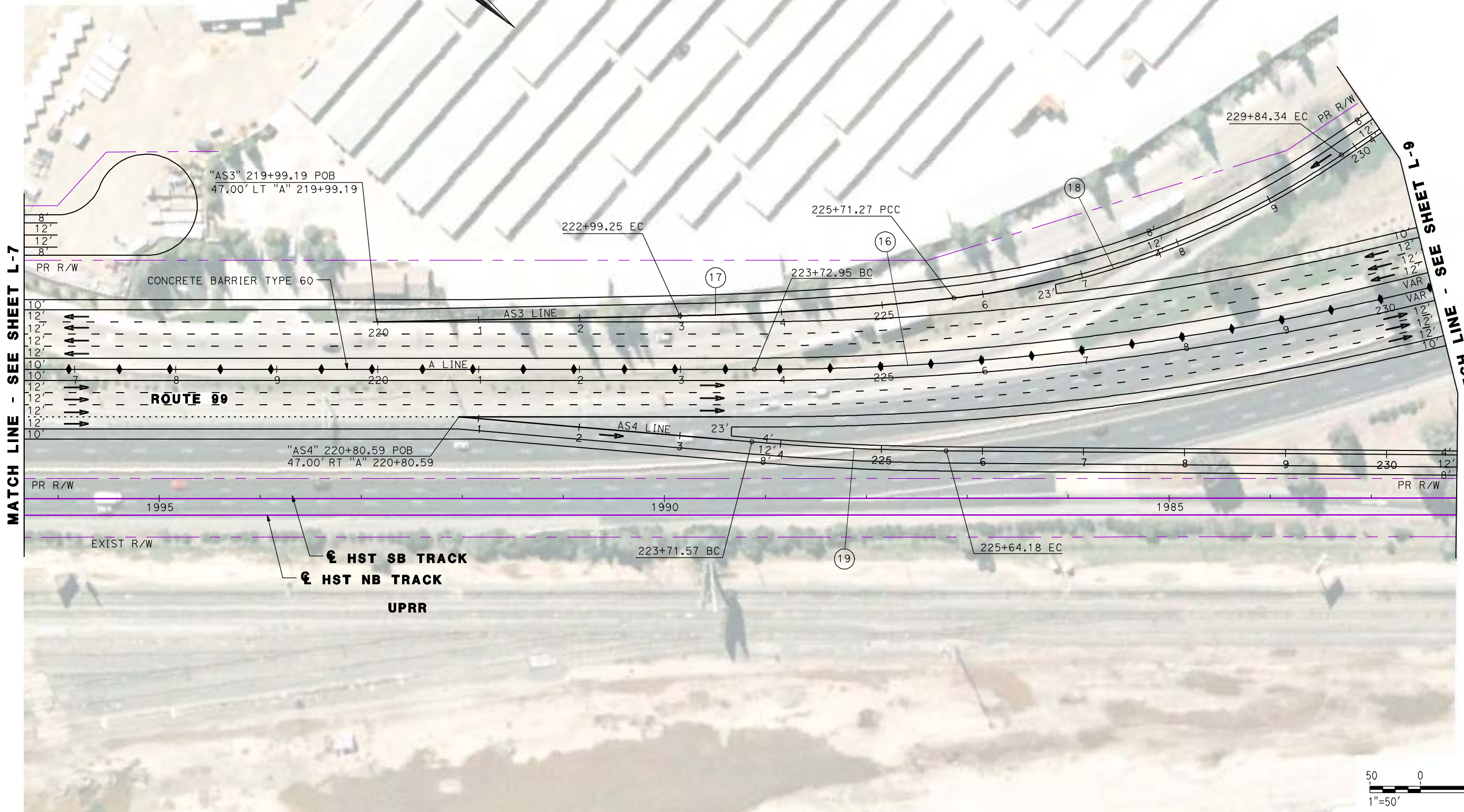
DRAWING NO.
L-7

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'



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

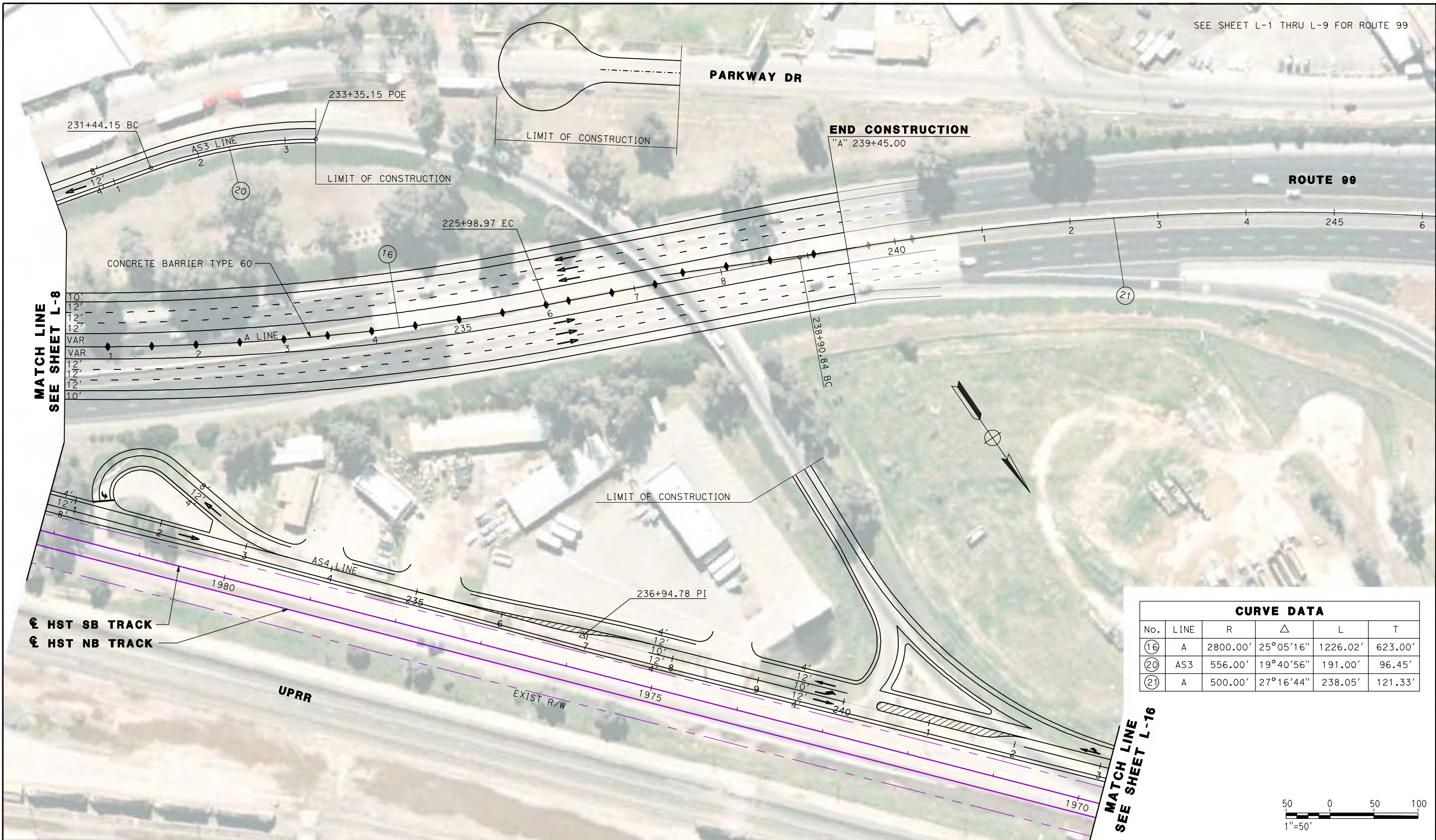
NOT FOR
CONSTRUCTION



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 09:44:00 AM



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

LIMIT OF CONSTRUCTION

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

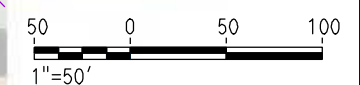
"C" 20+07.05 POT =
"MS" 143+26.56 POT

"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

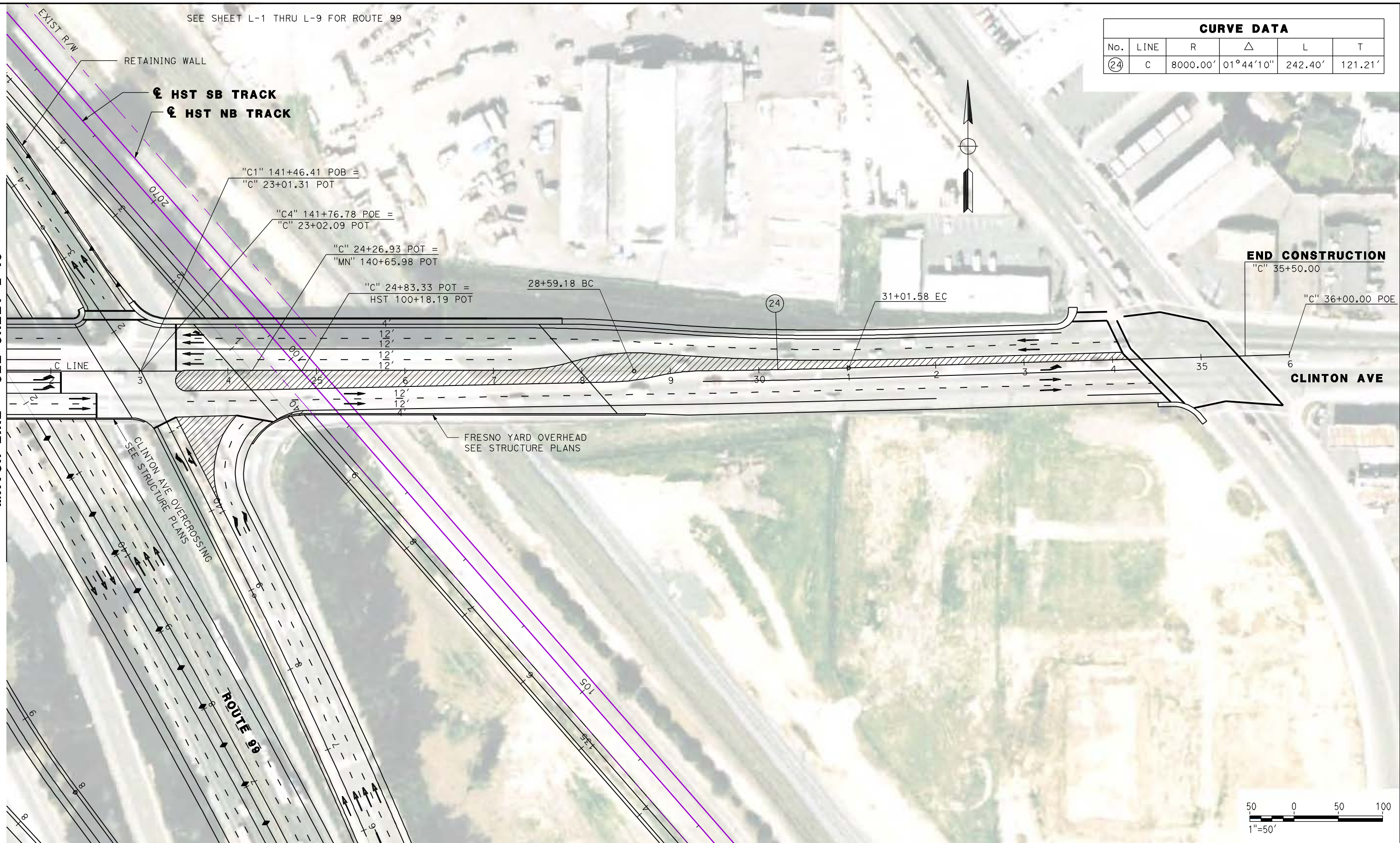
SHEET NO.

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

NOT FOR
CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

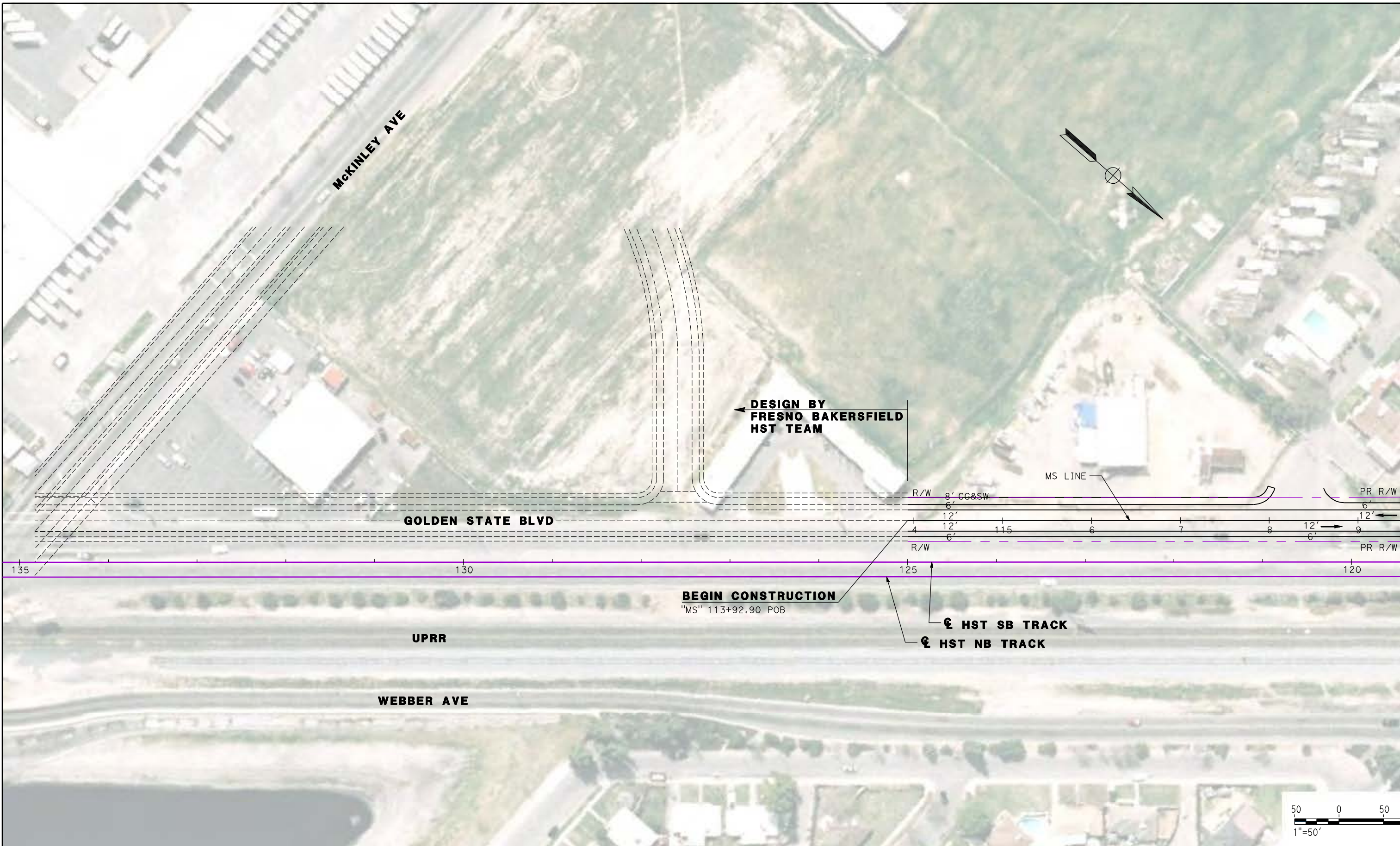
CH2MHILL



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

GOLDEN STATE BLVD

MS LINE

R/W 8' CC&SW PR R/W

12' 12' 12' 12' 12' 12' 12' 12'

4 115 6 7 8 9

R/W PR R/W

135 130 125 120

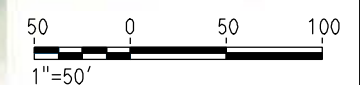
BEGIN CONSTRUCTION
"MS" 113+92.90 POB

⊕ 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

NOT FOR
CONSTRUCTION

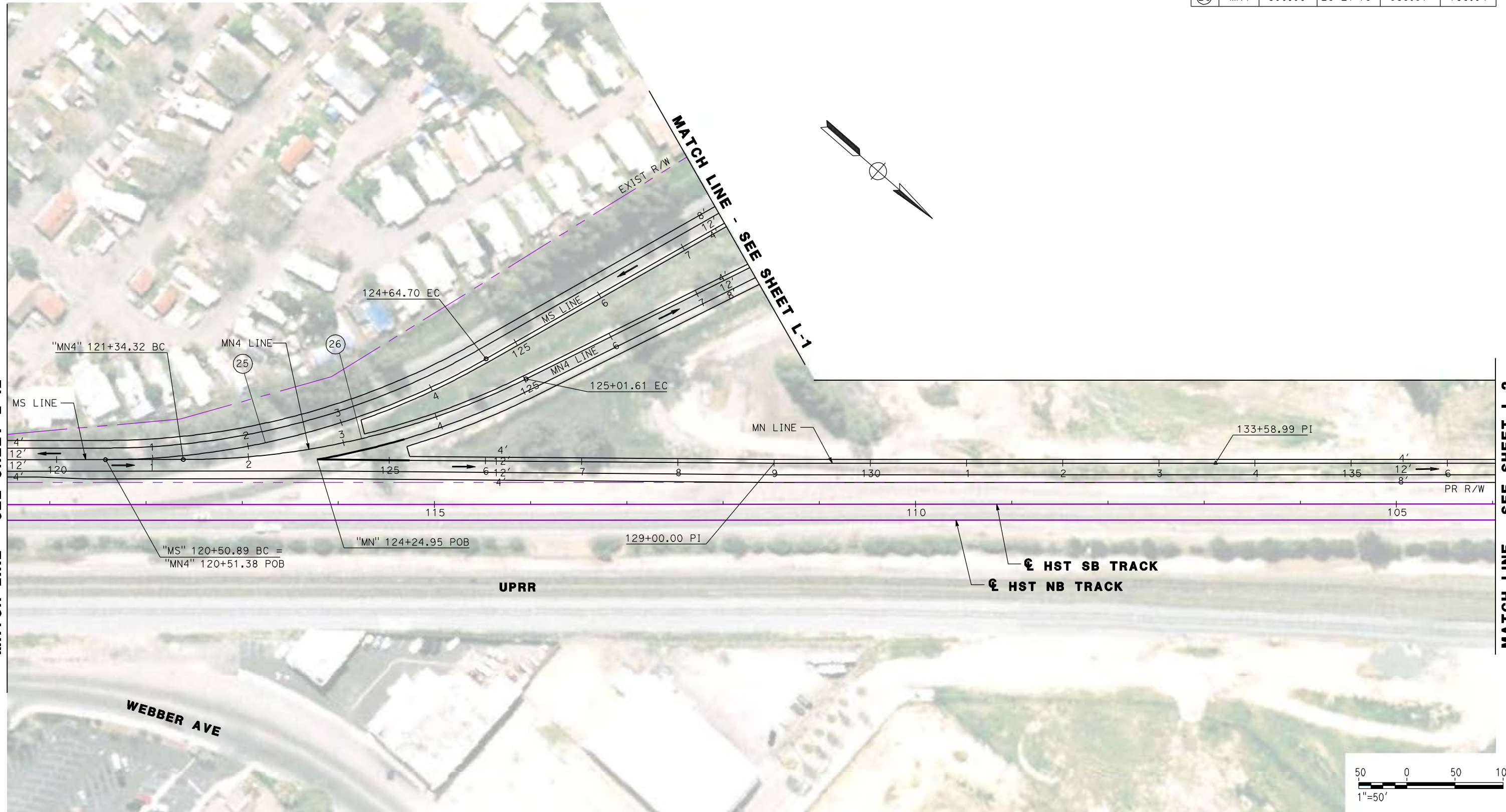


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
DRAWING NO.
L-12
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11

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'



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



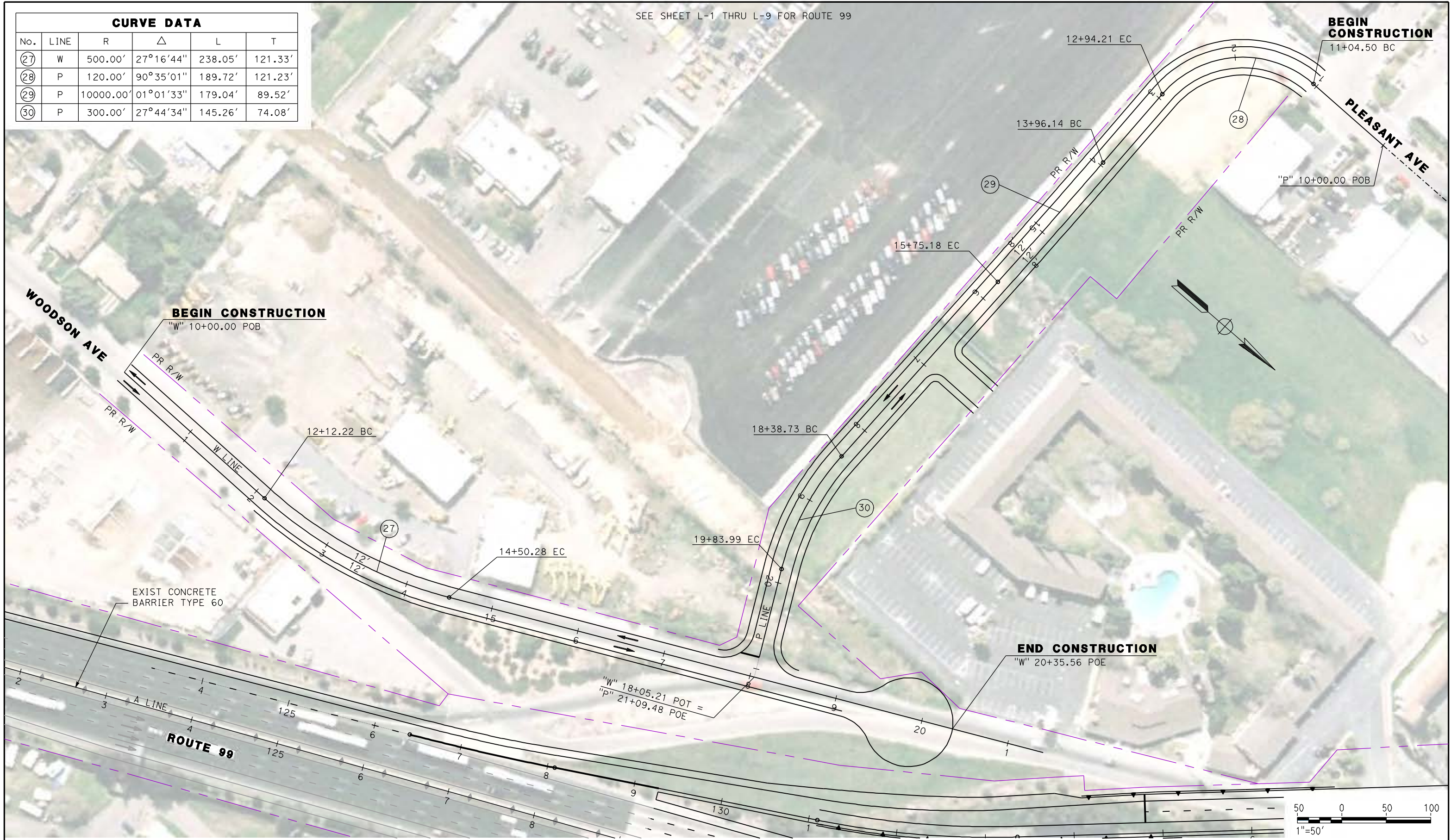
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007
DRAWING NO.
L-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
SUBMITTAL

NOT FOR
CONSTRUCTION



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

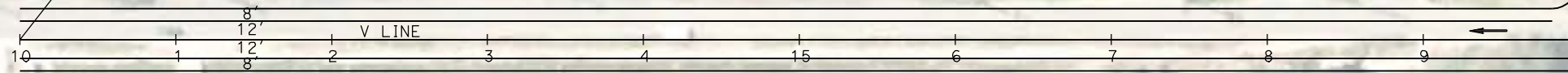
SEE SHEET L-1 THRU L-9 FOR ROUTE 99



BEGIN CONSTRUCTION

"V" 10+00.00 POB

VALENTINE AVE



22+25.97 BC

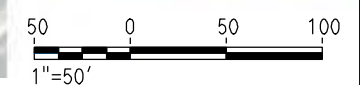
MATCH LINE
SEE SHEET L-7

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

AECOM
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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
LAYOUT

CONTRACT NO.
HSR06-007

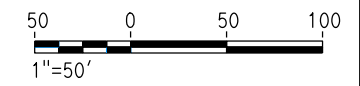
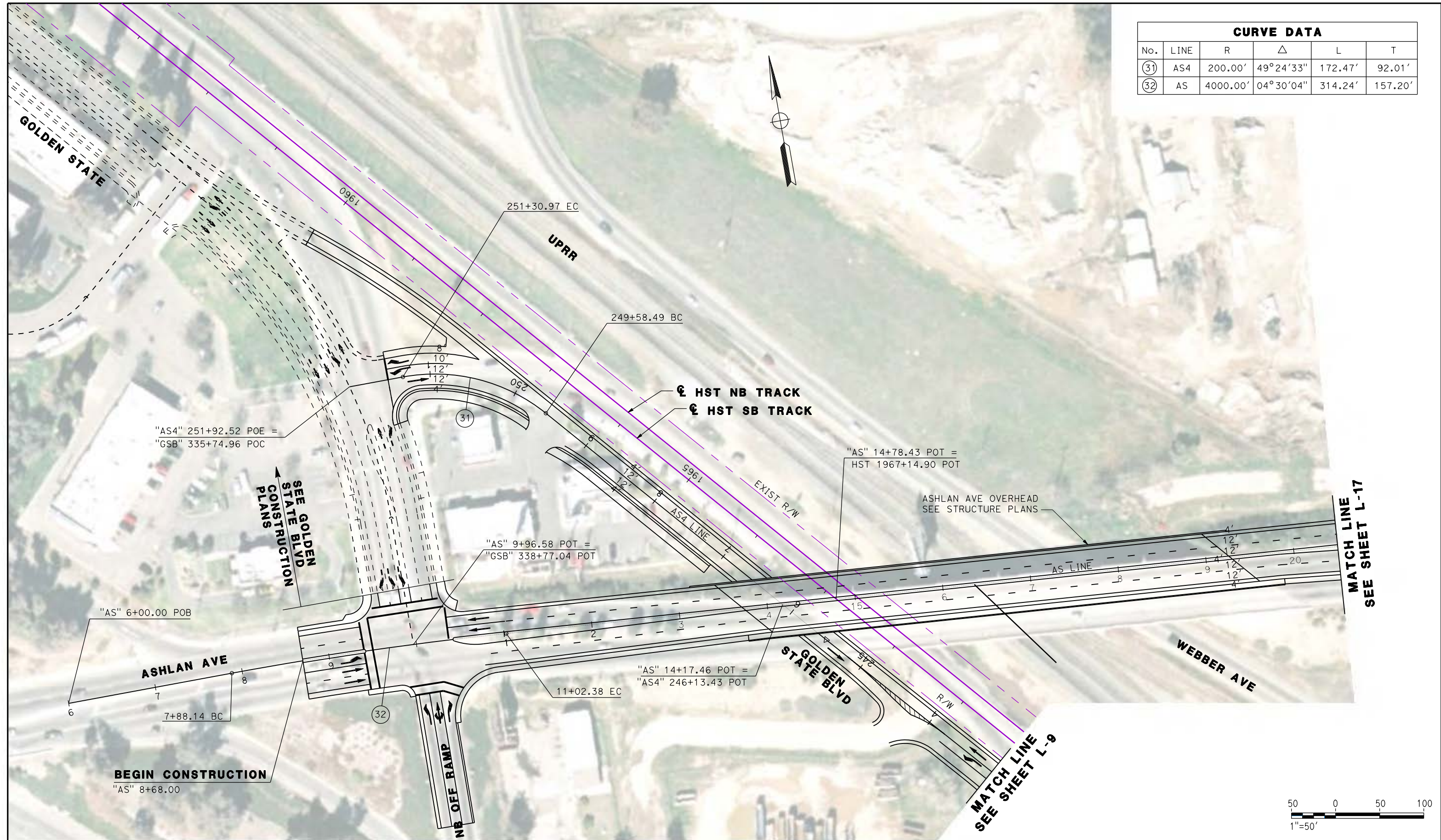
DRAWING NO.
L-15

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
15% DESIGN
SUBMITTAL

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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-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

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

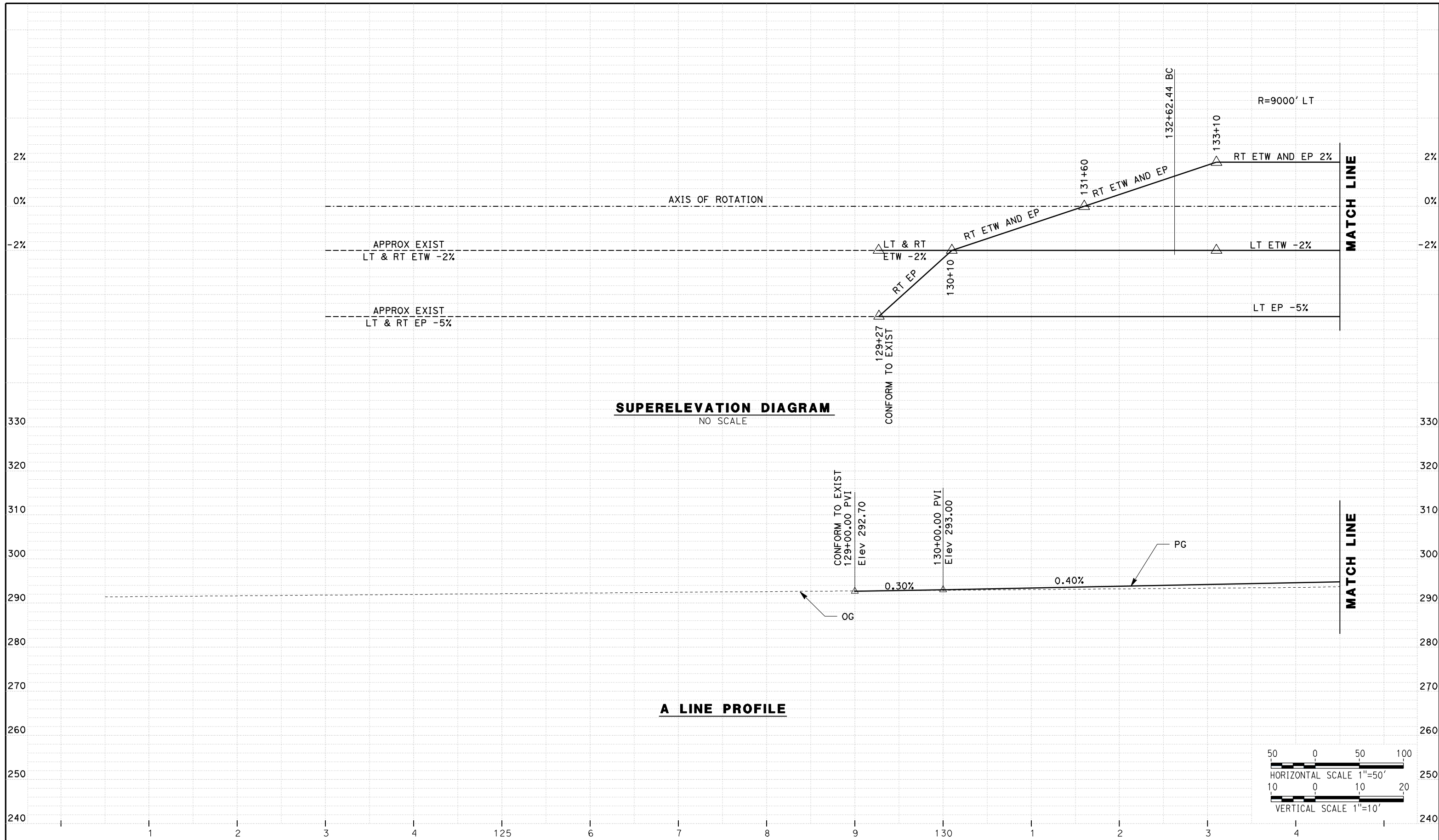
CH2MHILL



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
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
15% DESIGN
SUBMITTAL

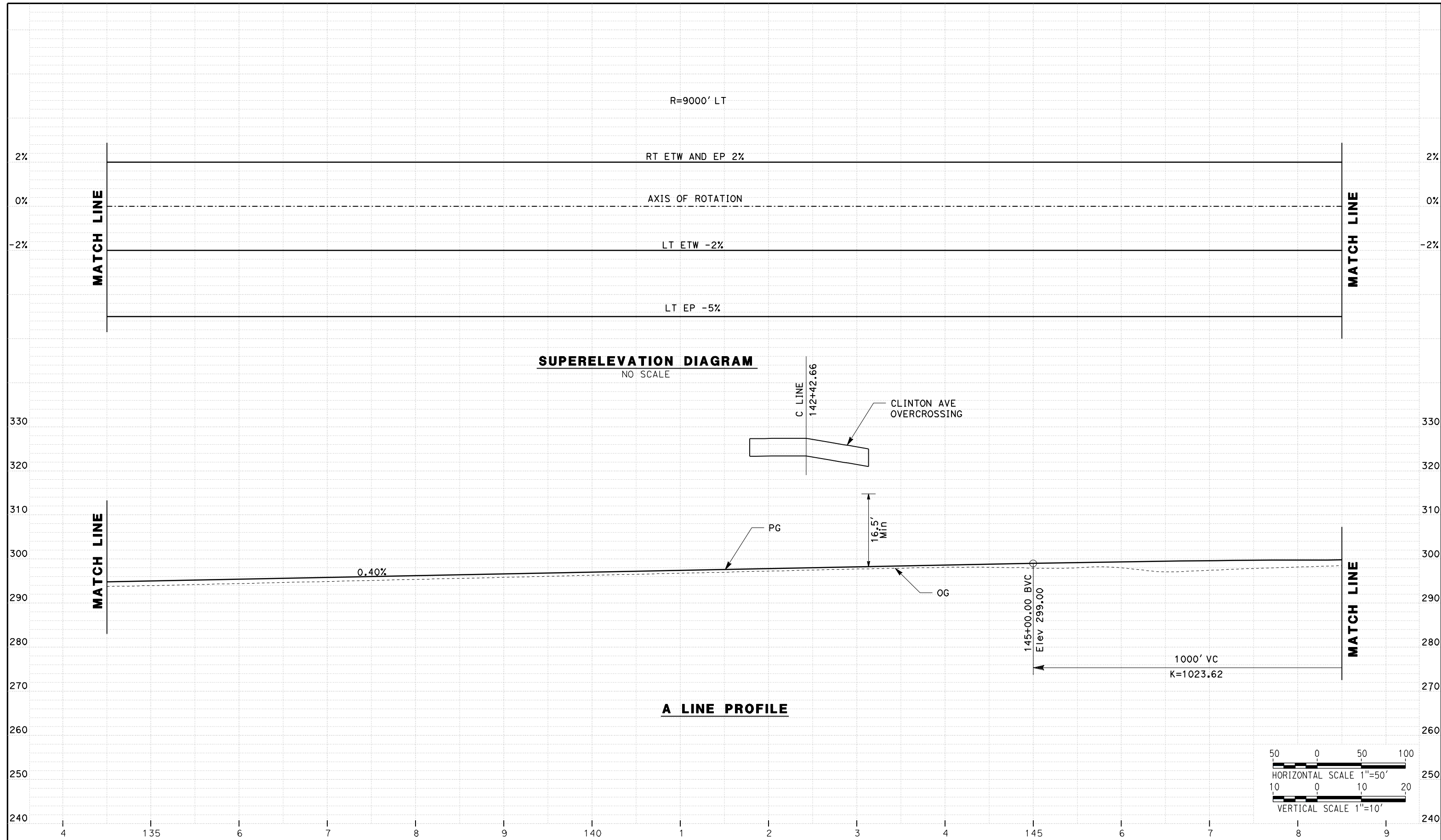
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-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

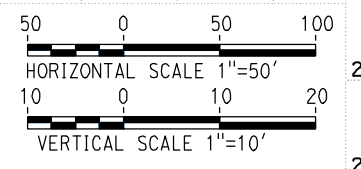
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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

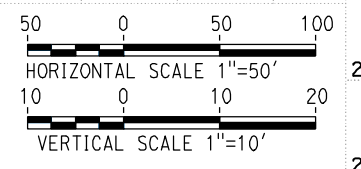
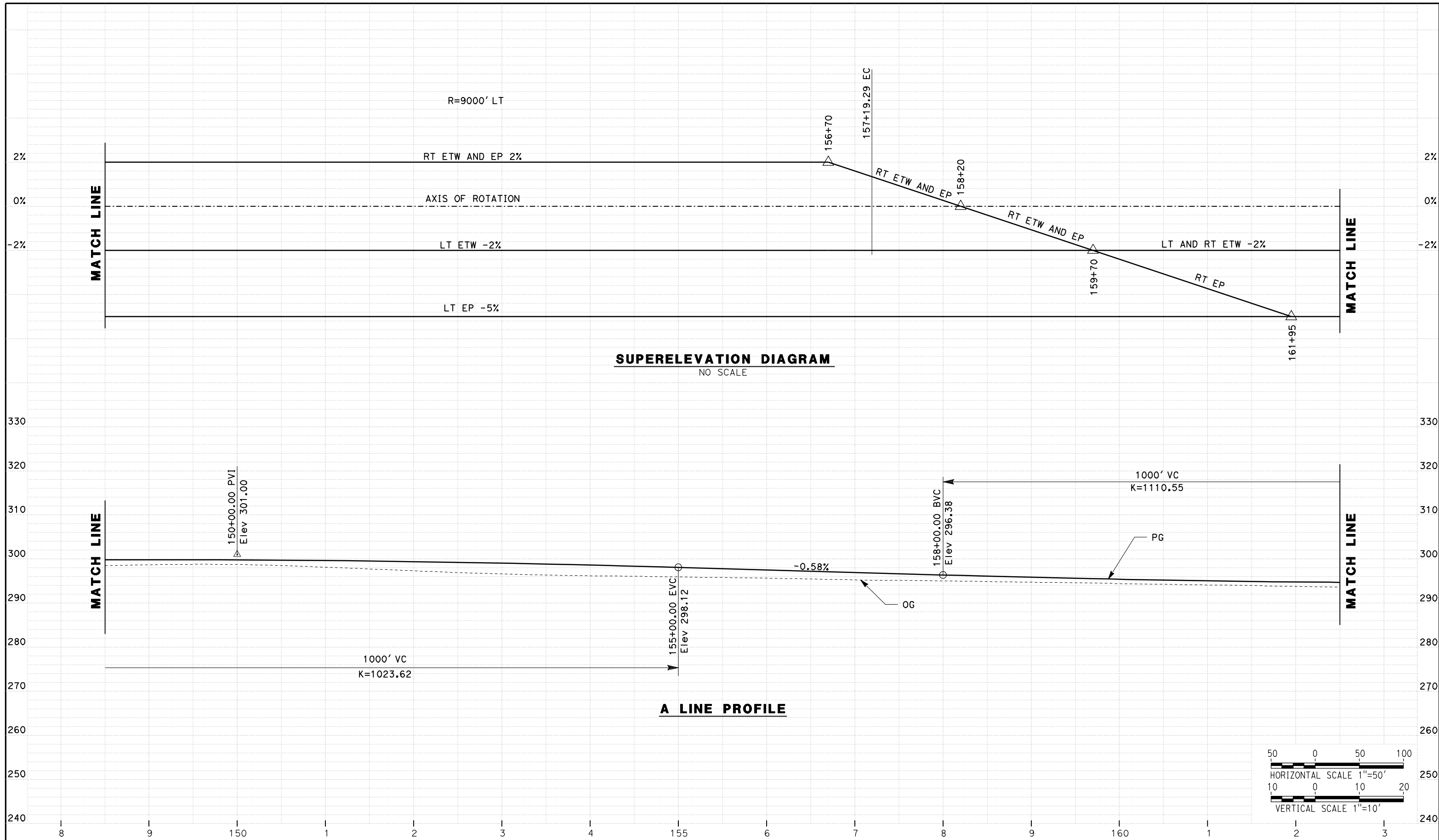


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-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

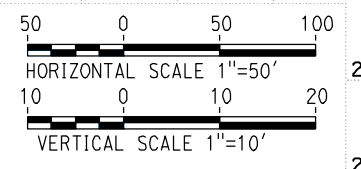
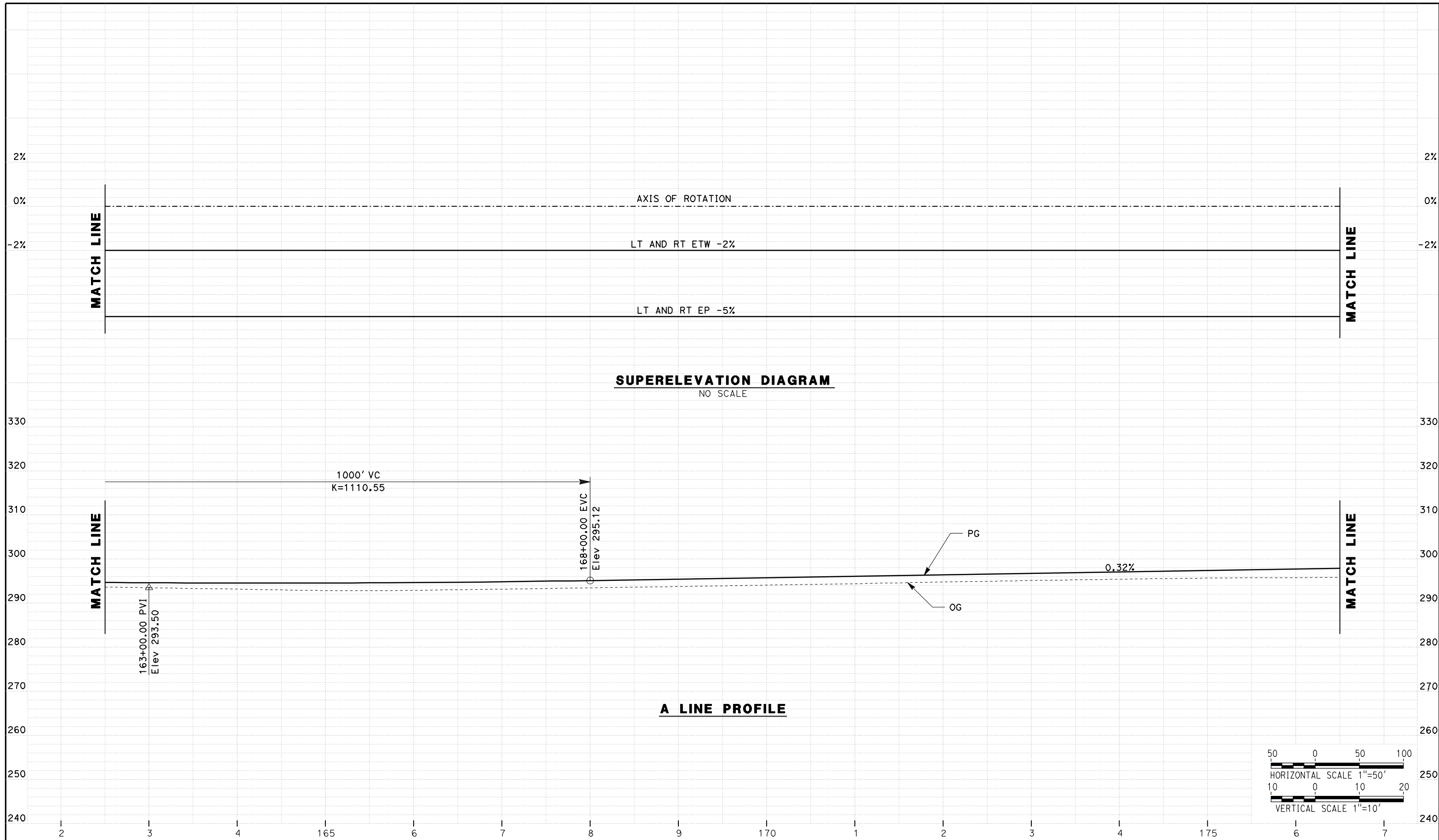
NOT FOR
CONSTRUCTION



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

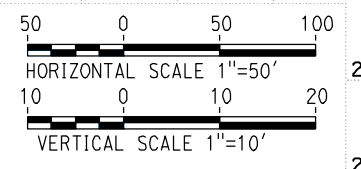
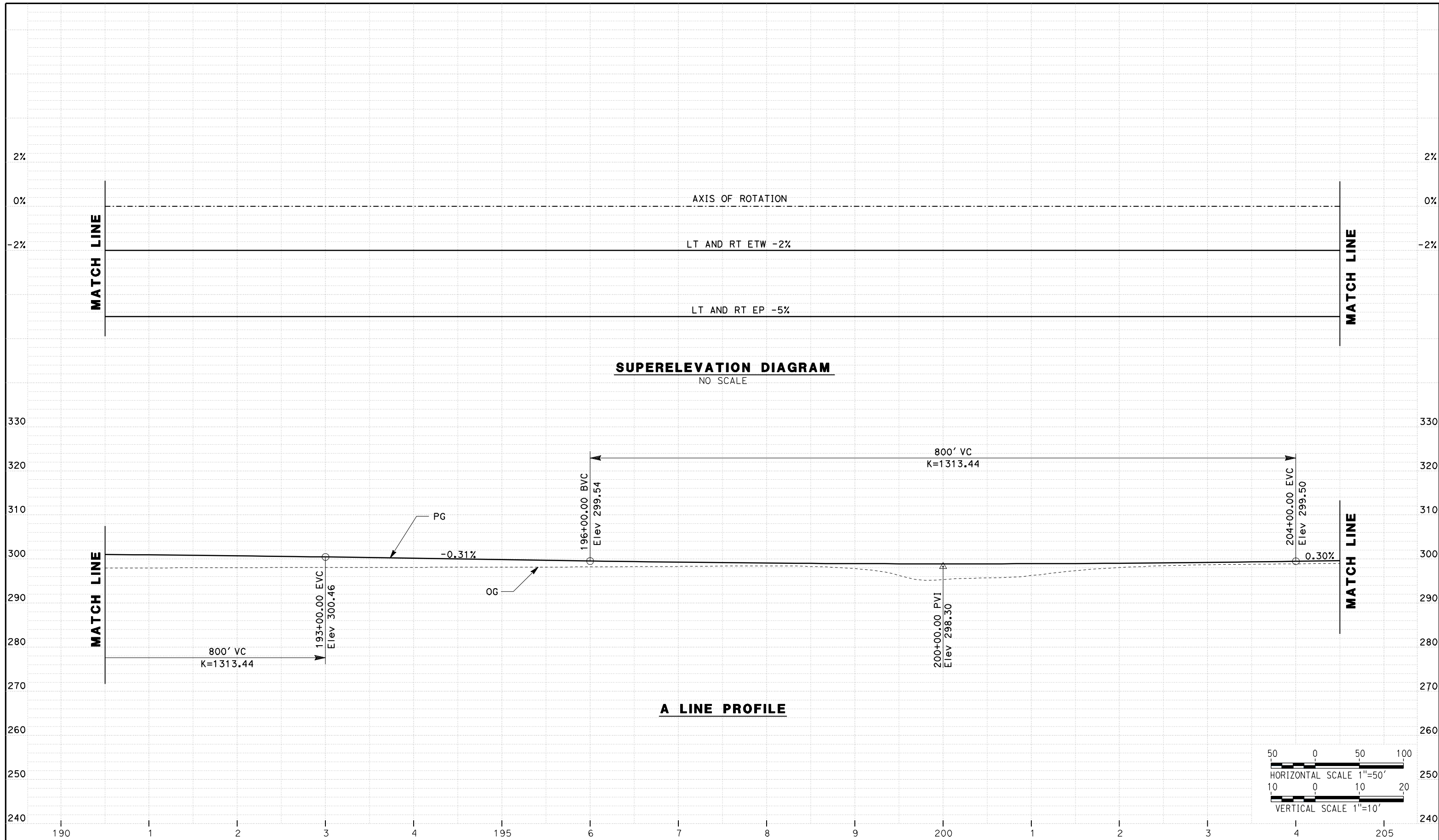
NOT FOR
CONSTRUCTION



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

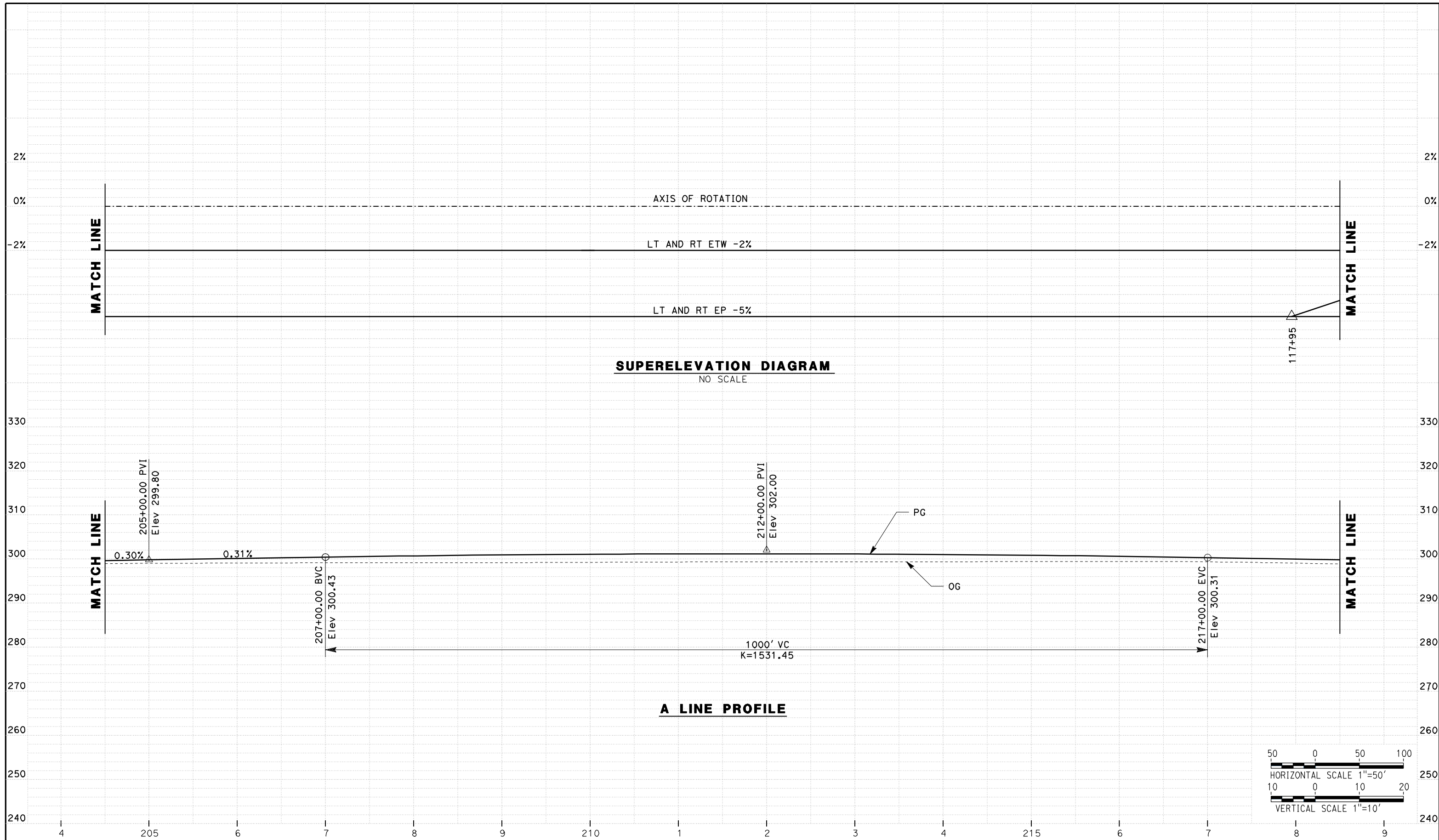
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
 DRAWING NO.
P-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

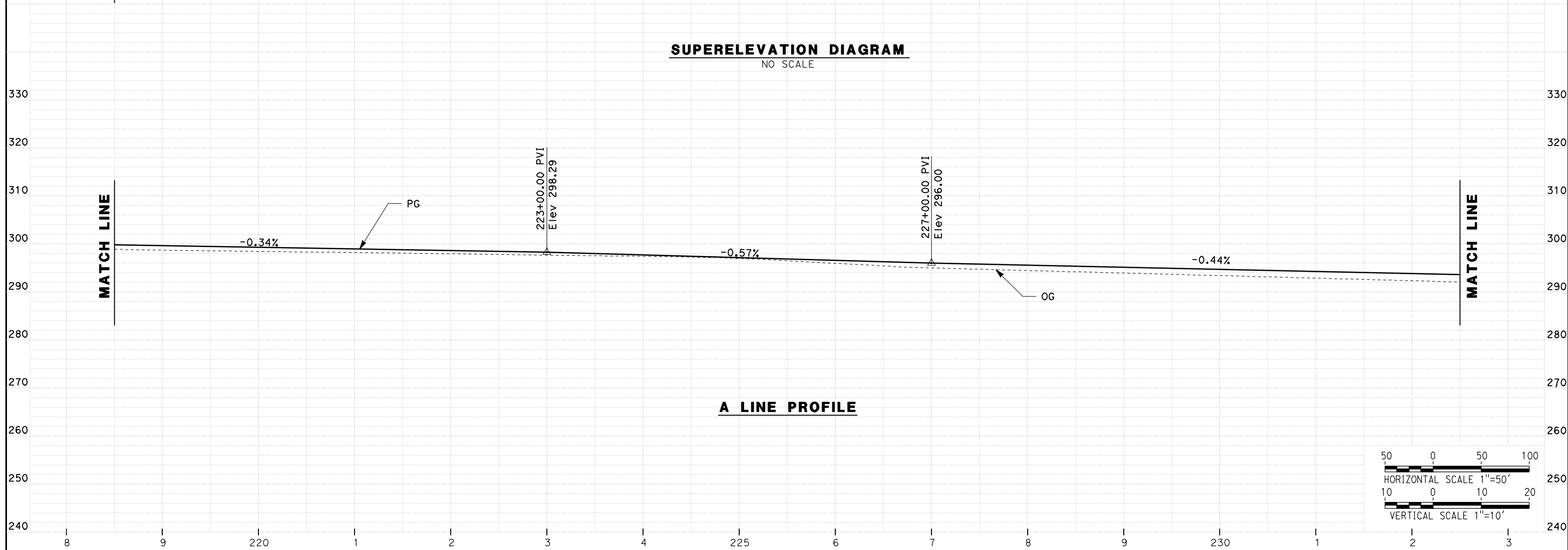
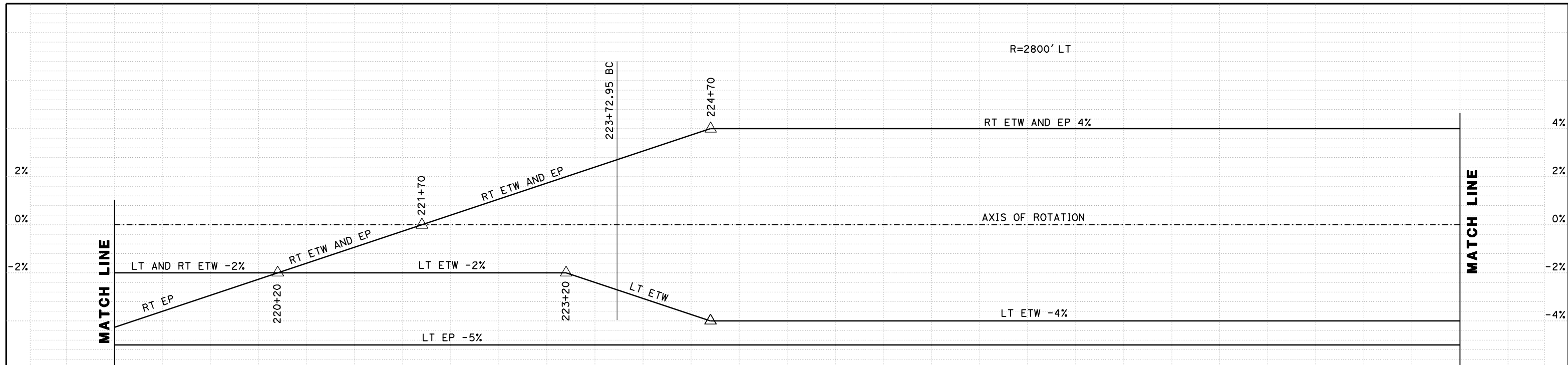
NOT FOR
CONSTRUCTION



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

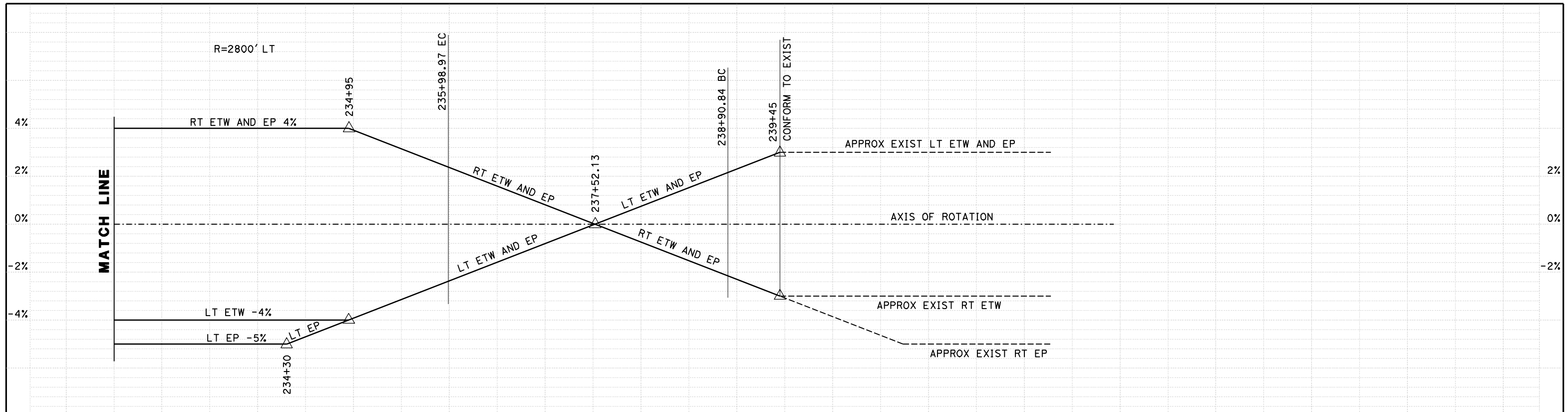
NOT FOR
CONSTRUCTION



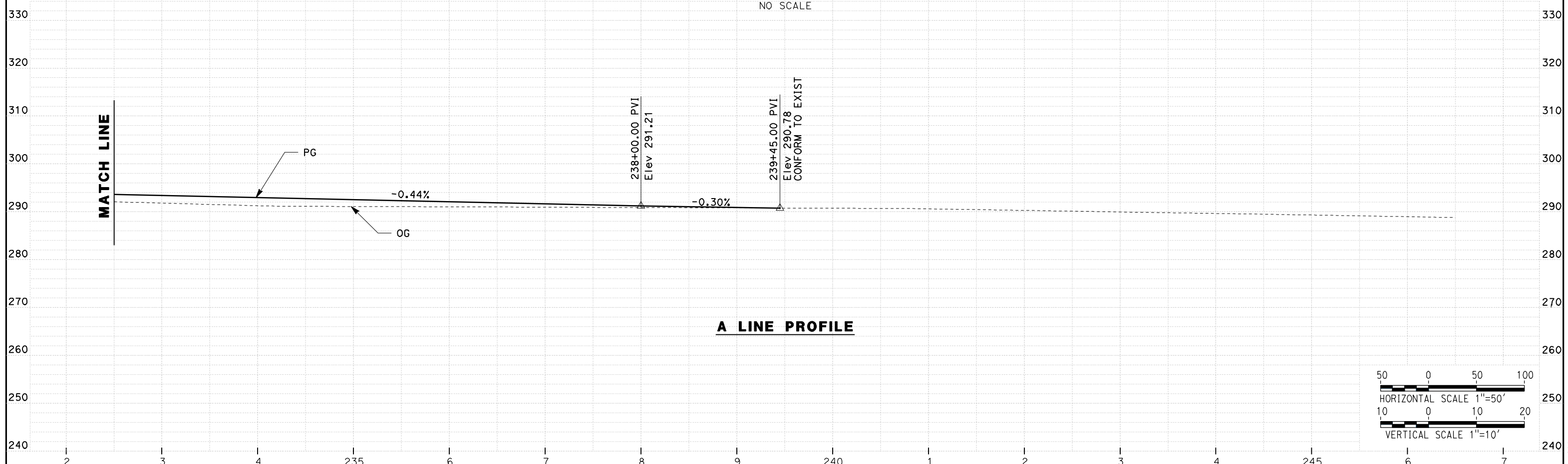
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-8
SCALE
AS SHOWN
SHEET NO.

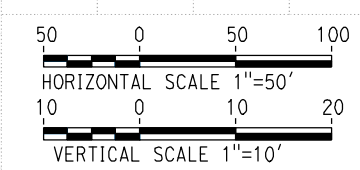
DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM
NO SCALE



A 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

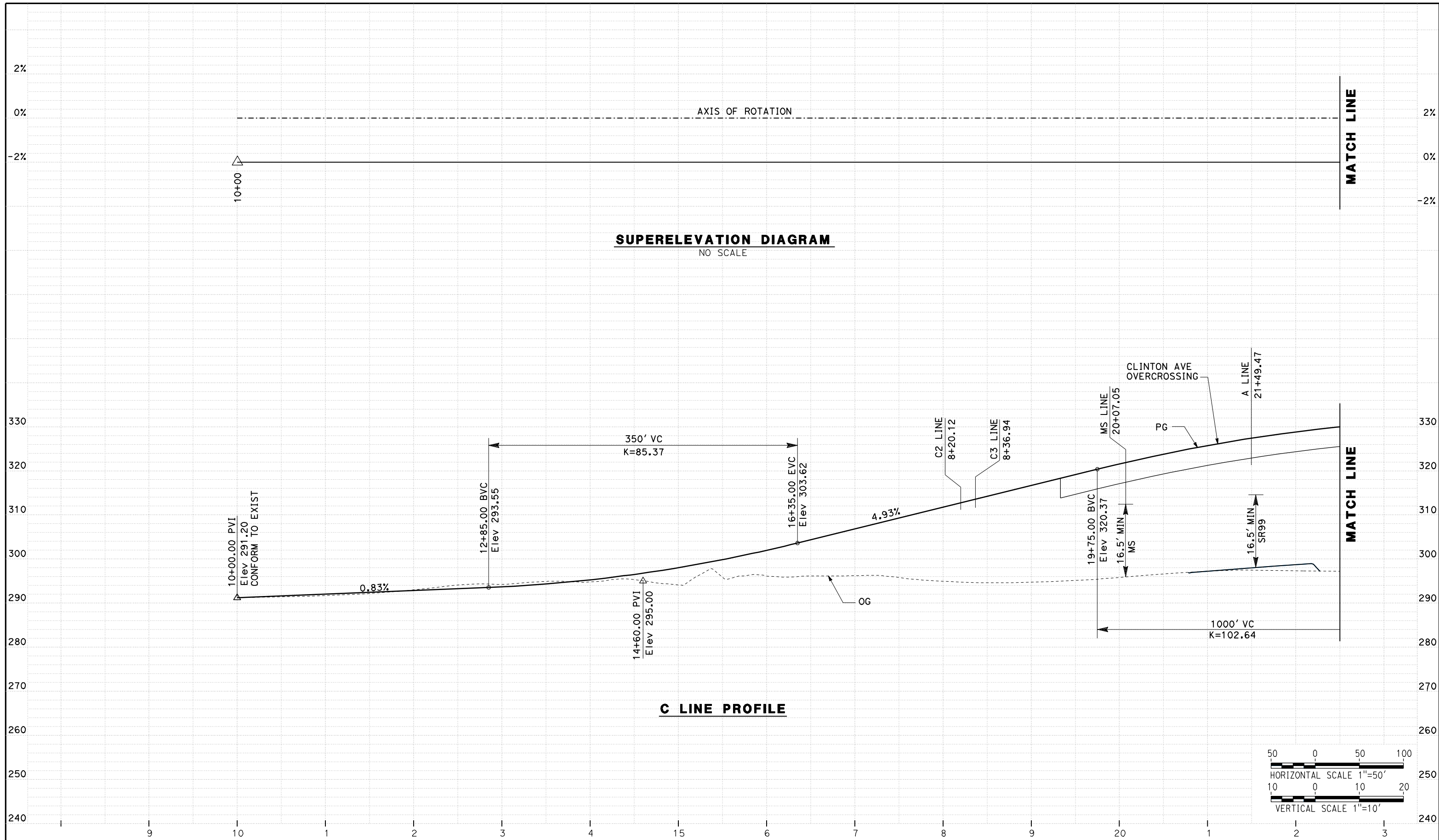
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-9
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

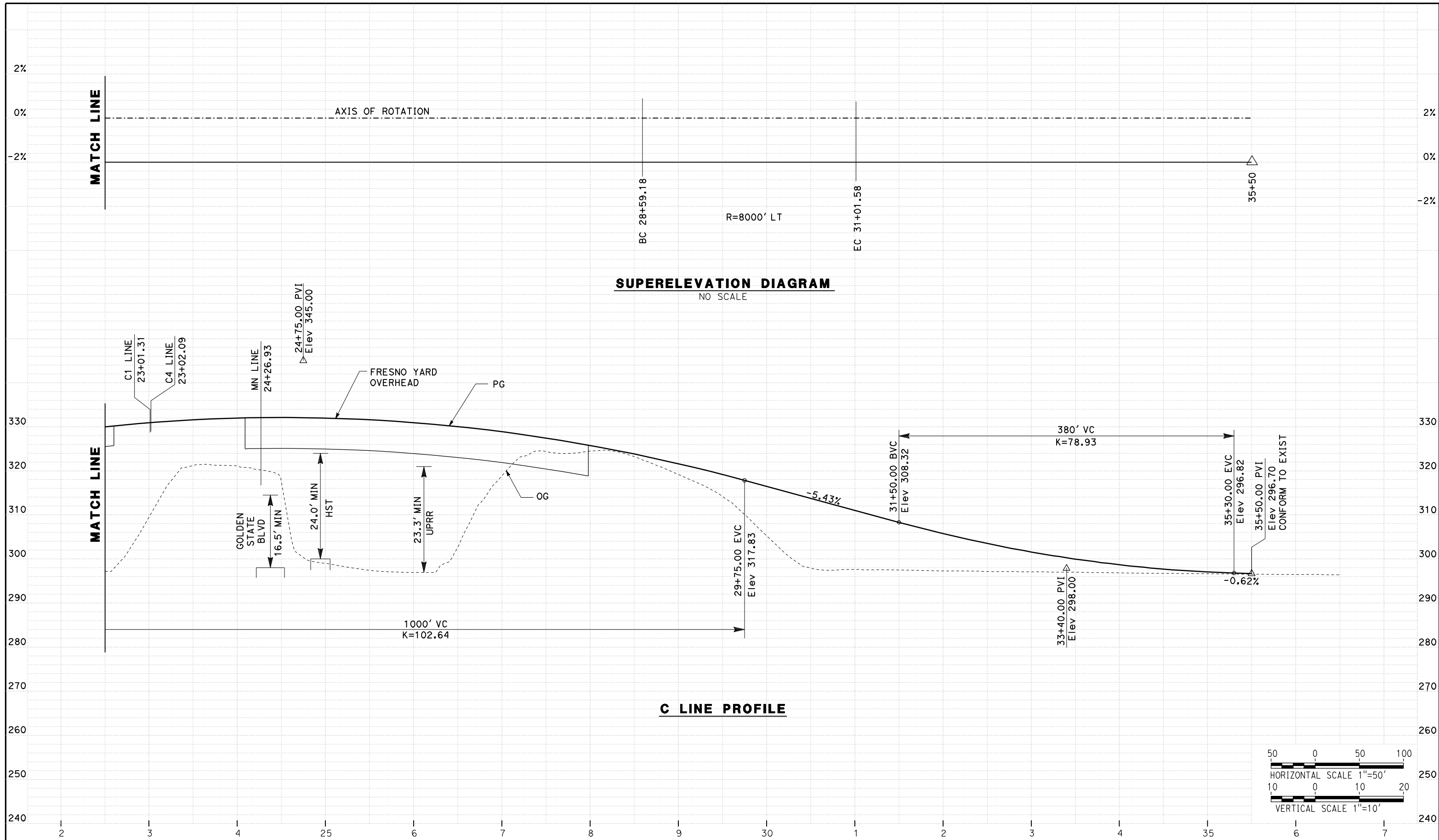
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-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

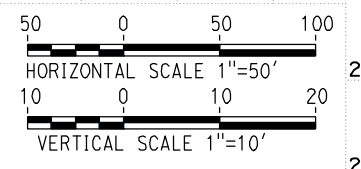
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SUBMITTAL

NOT FOR
CONSTRUCTION

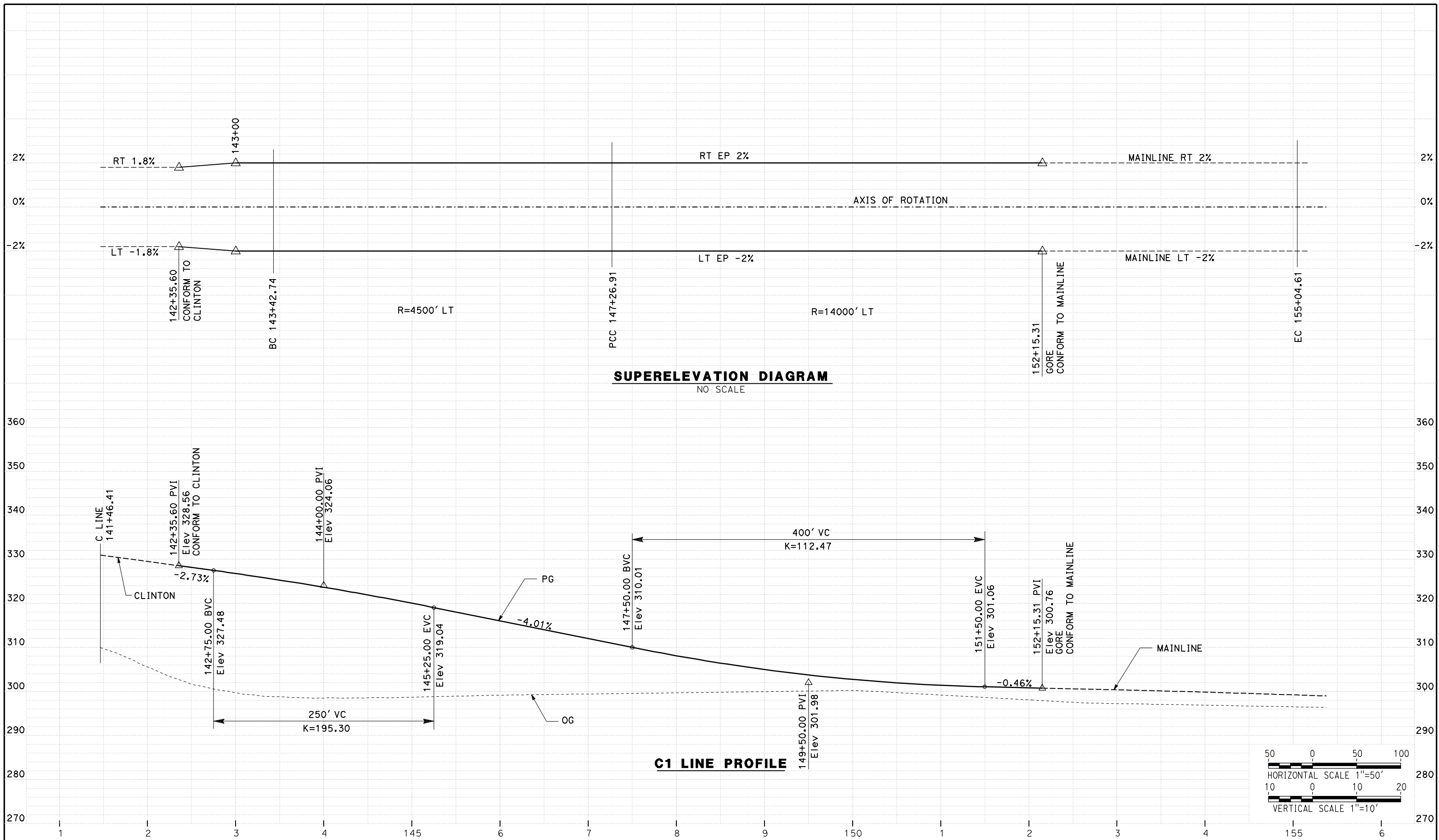


CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

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
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CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
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ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

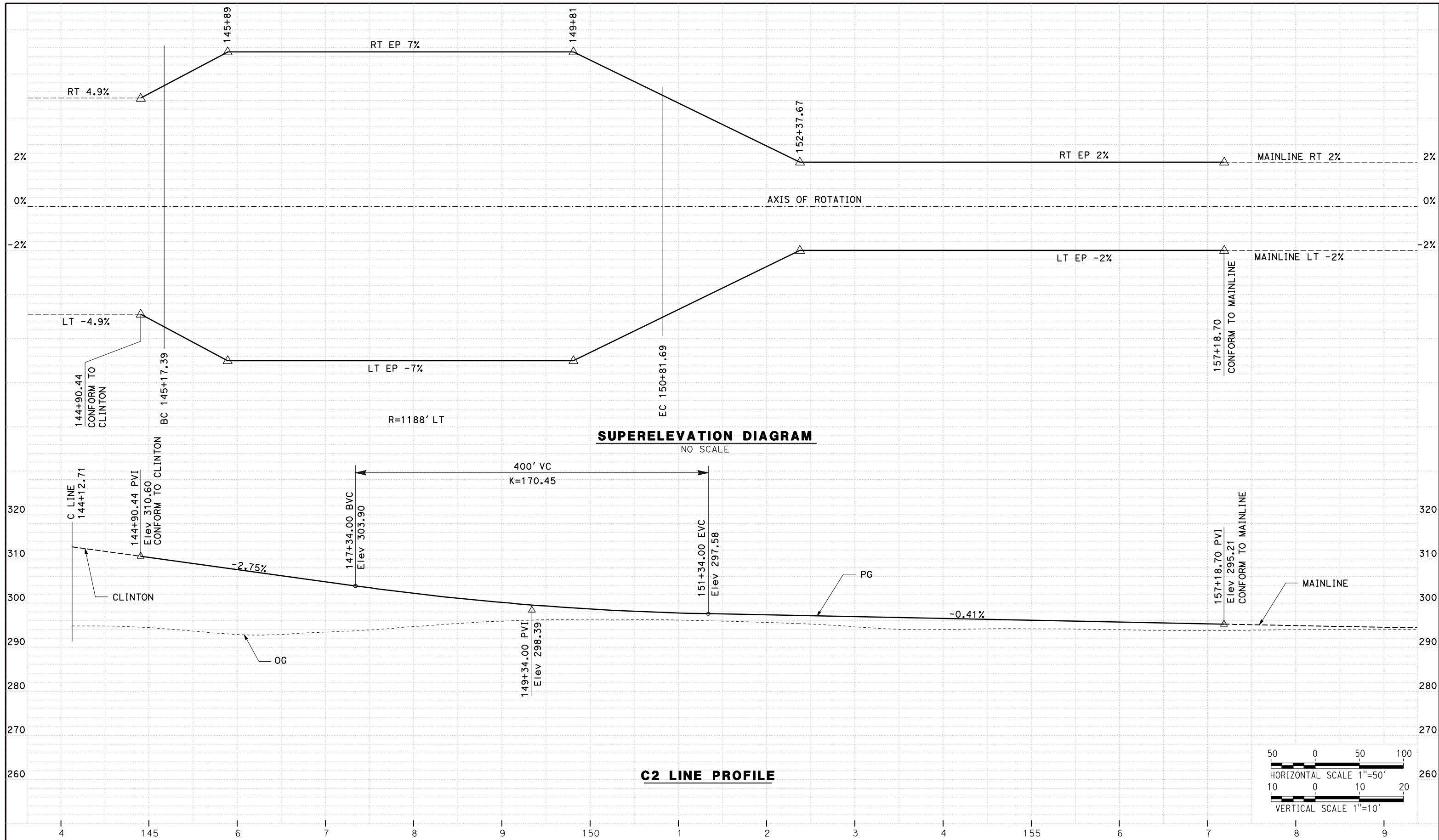
CONTRACT NO.
HSR06-007

DRAWING NO.
P-12

SCALE
AS SHOWN

SHEET NO.

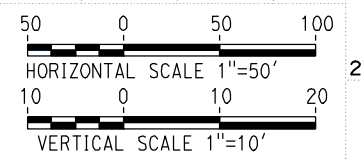
DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM

NO SCALE

C2 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

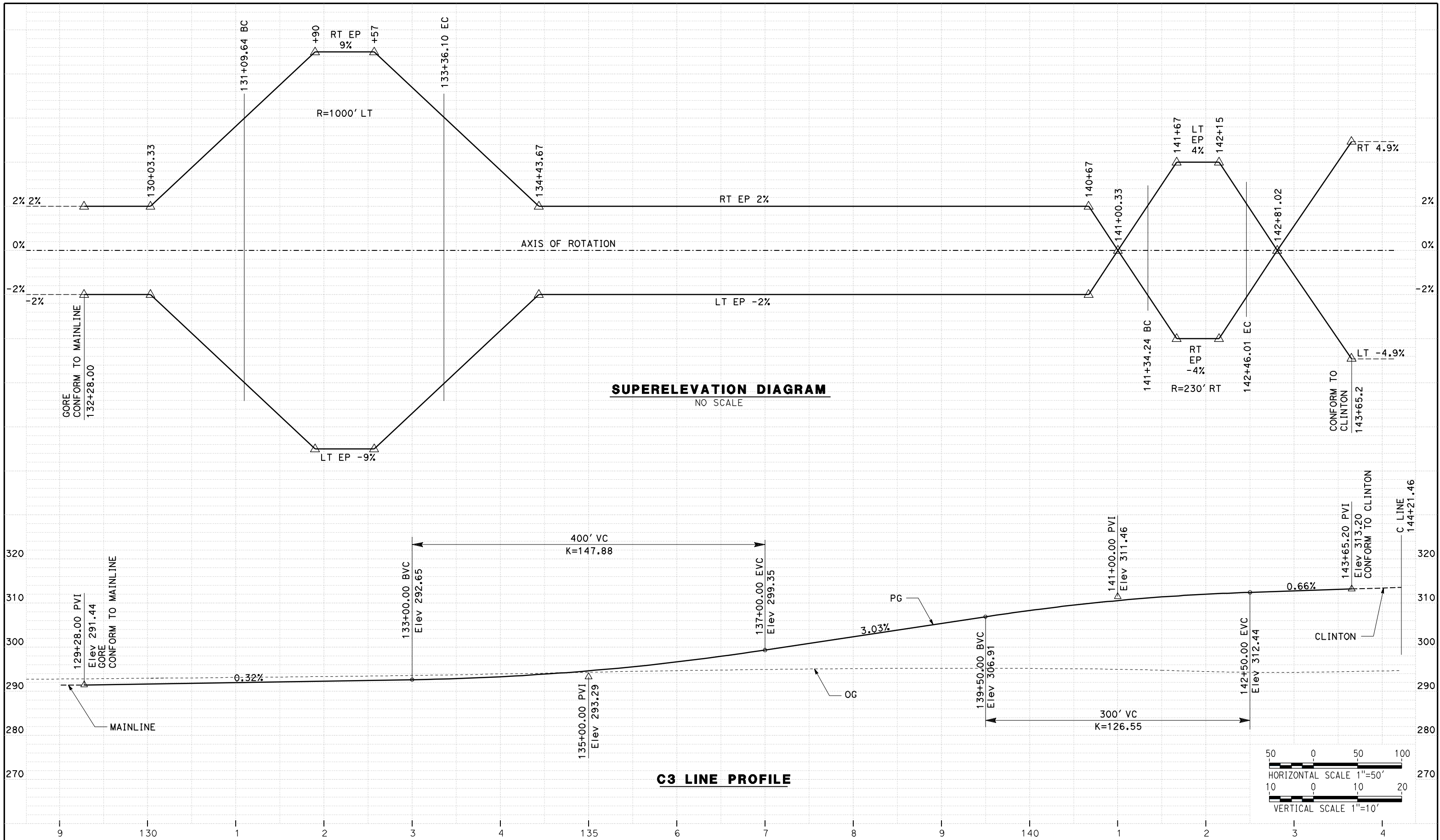
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
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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
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SUBMITTAL

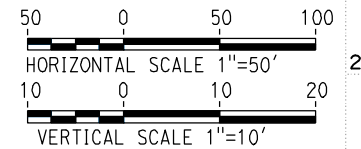
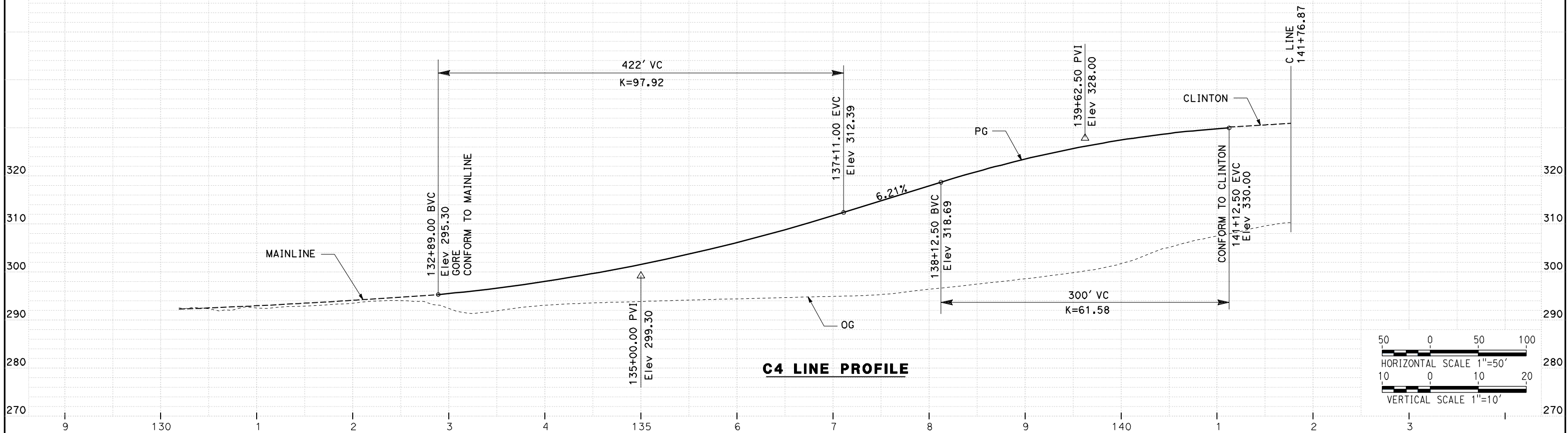
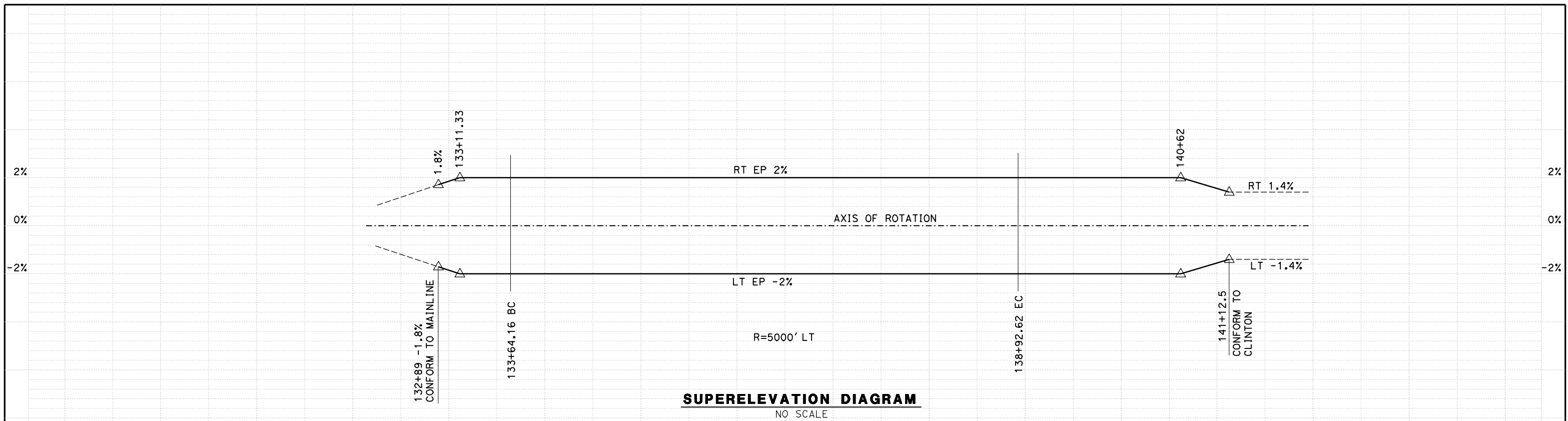
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-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

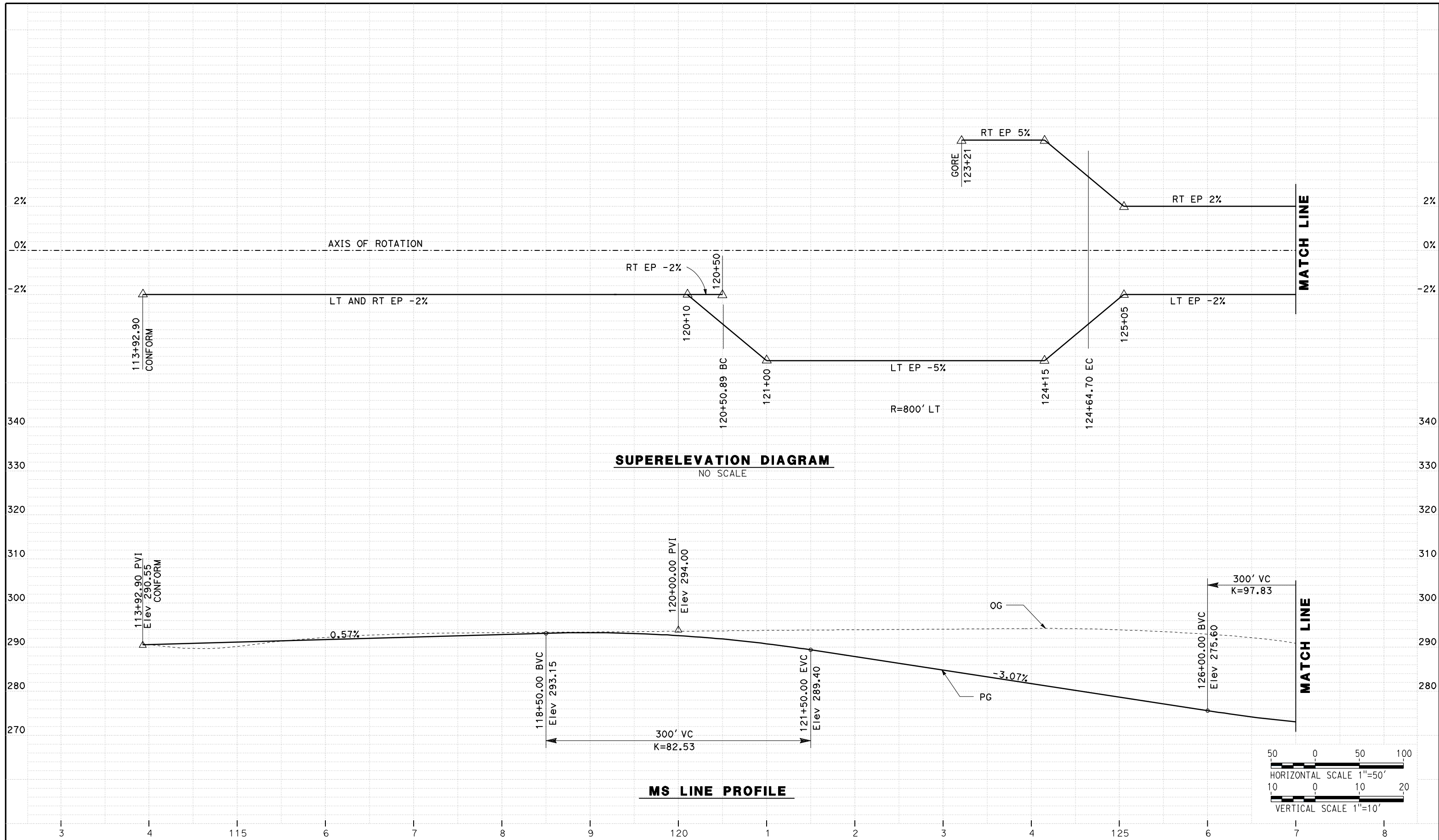
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CONSTRUCTION



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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

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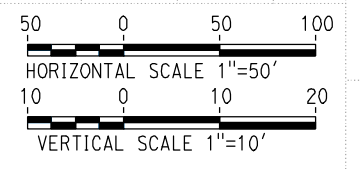
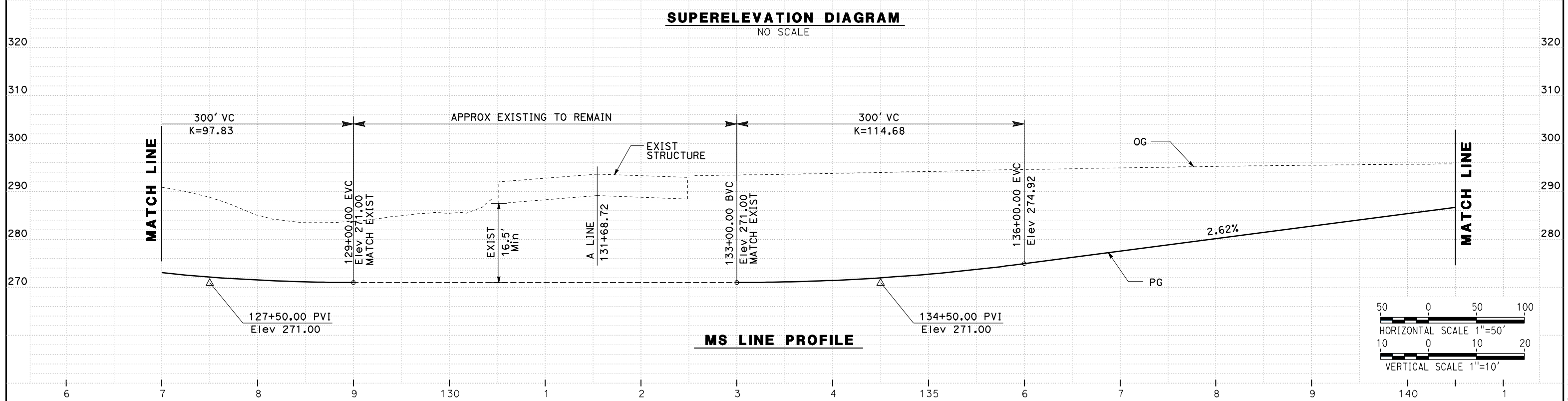
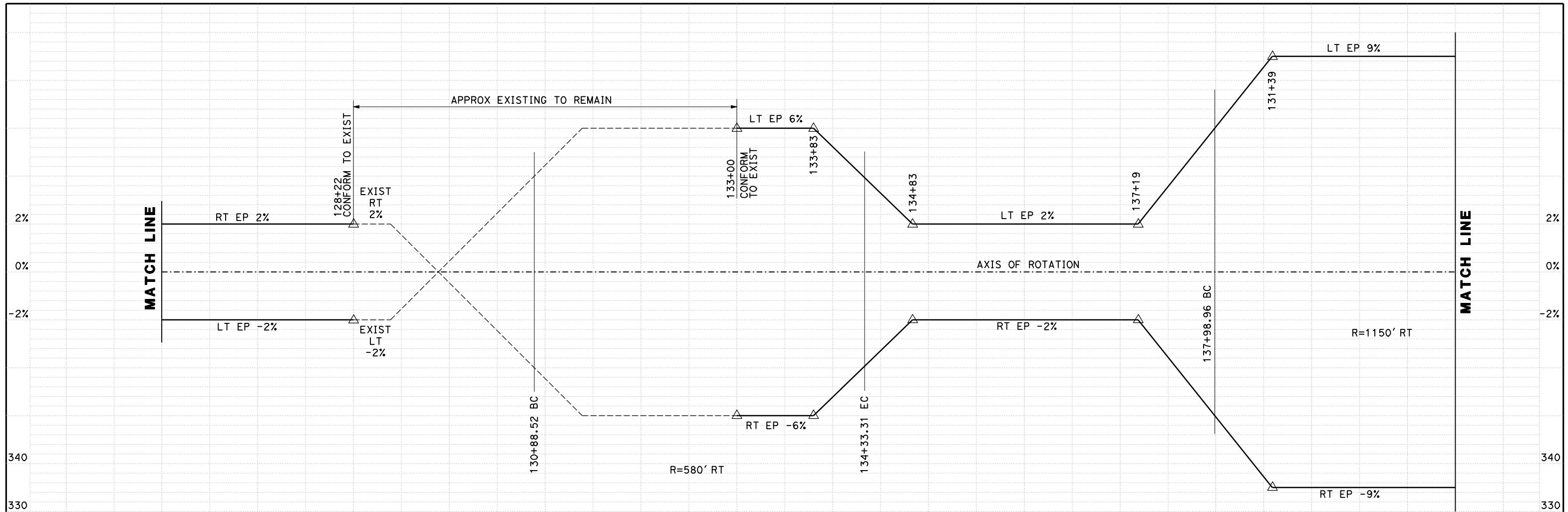
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
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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



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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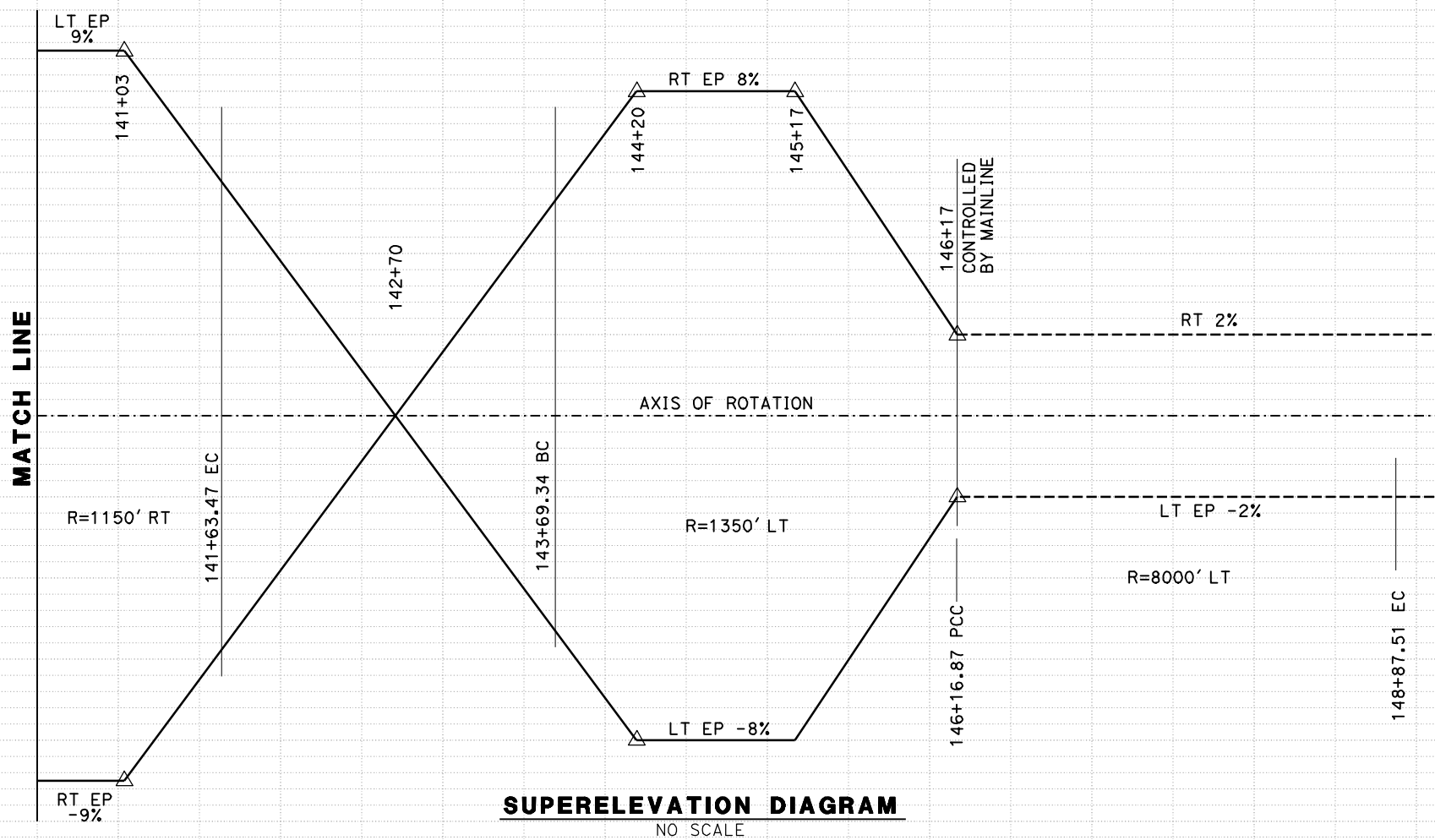
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CONSTRUCTION



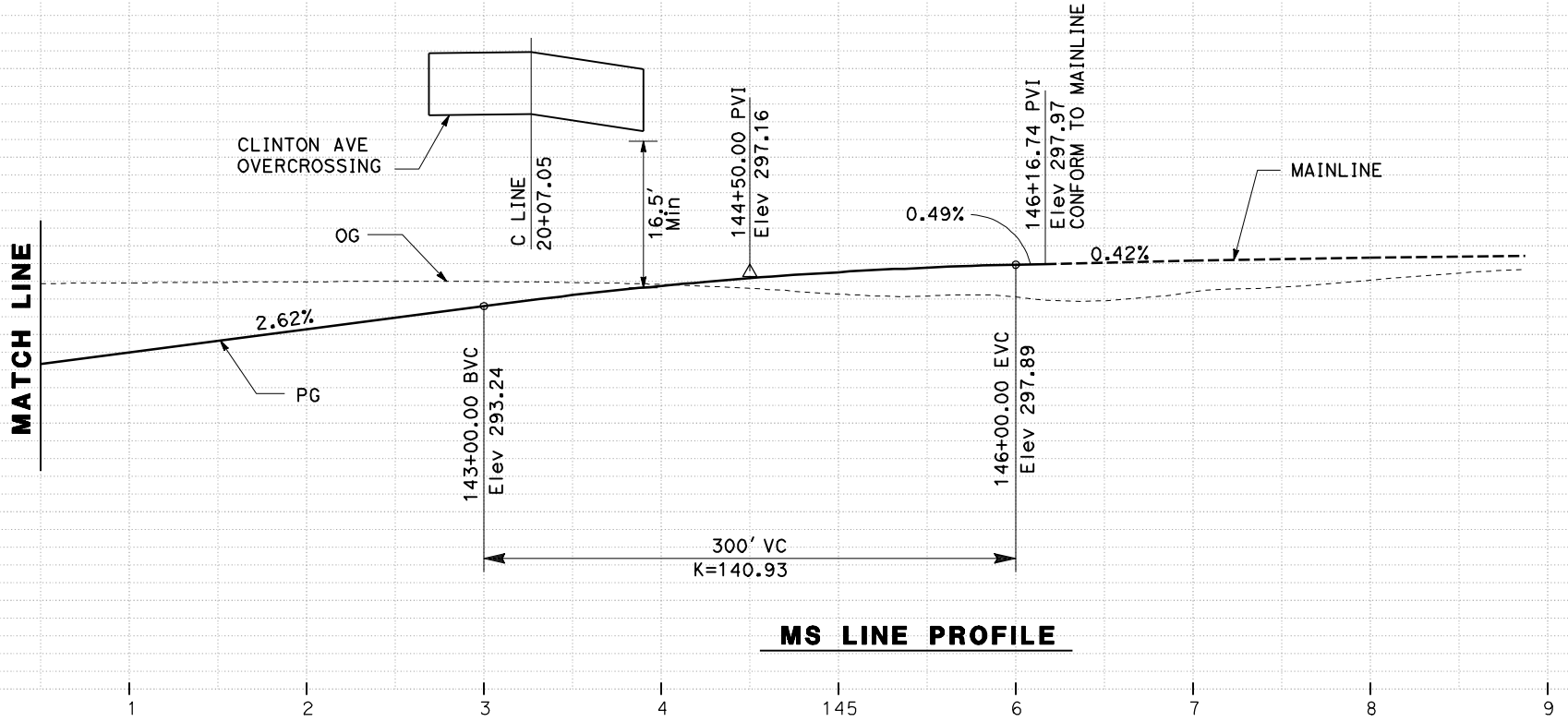
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-17
SCALE
AS SHOWN
SHEET NO.

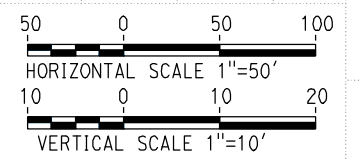
DATE PLOTTED => 26-APR-2011



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
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CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

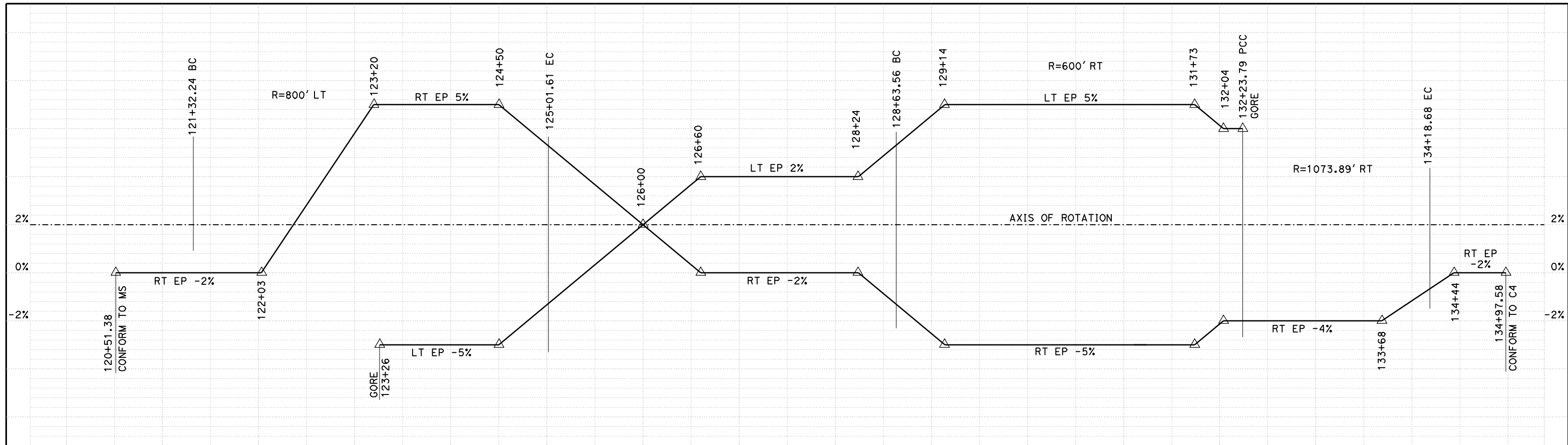
CONTRACT NO.
HSR06-007

DRAWING NO.
P-18

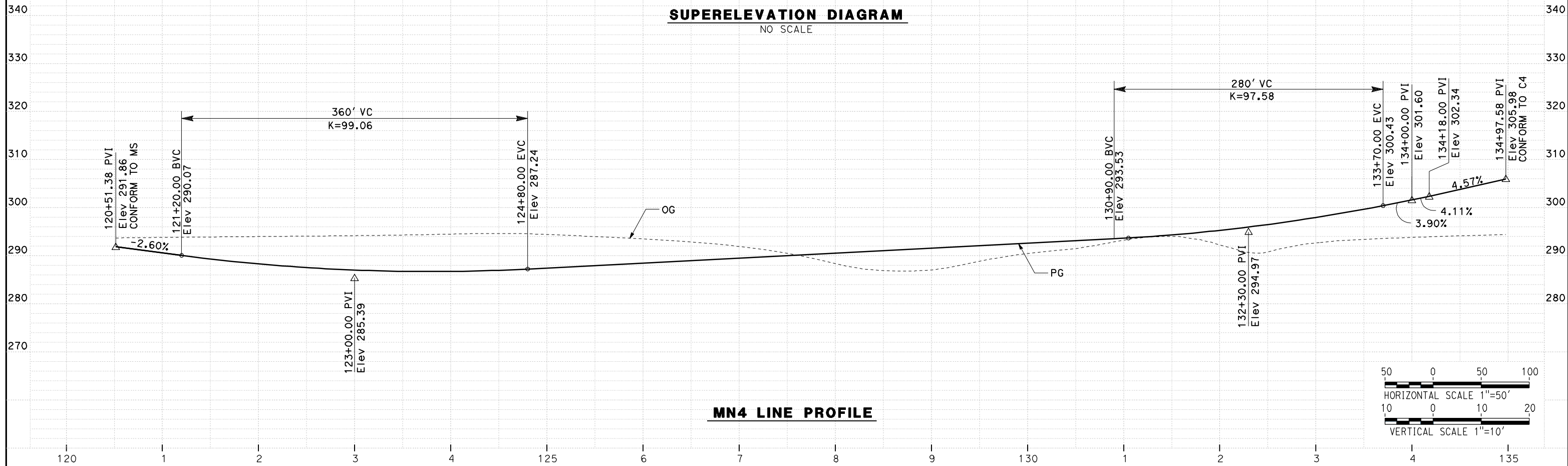
SCALE
AS SHOWN

SHEET NO.

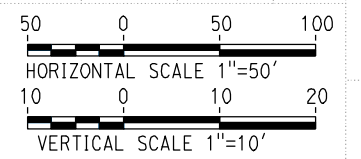
DATE PLOTTED => 26-APR-2011



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

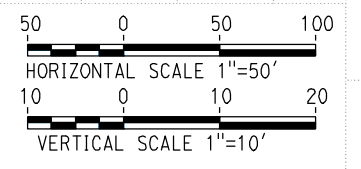
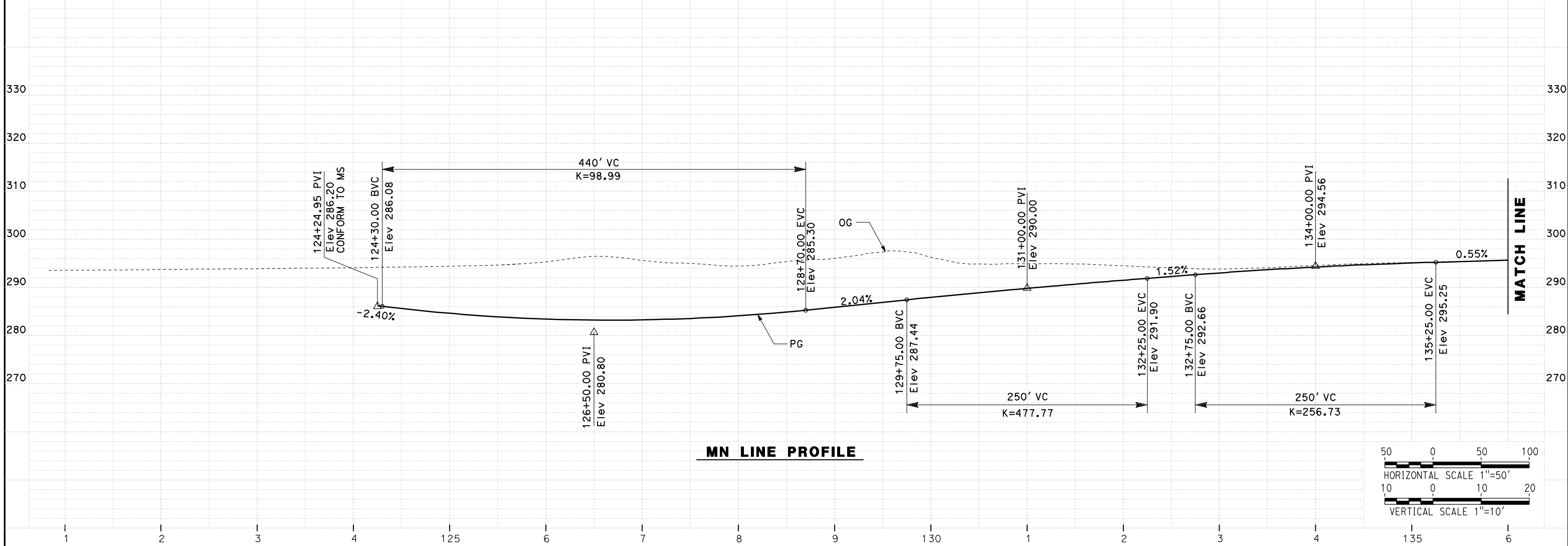
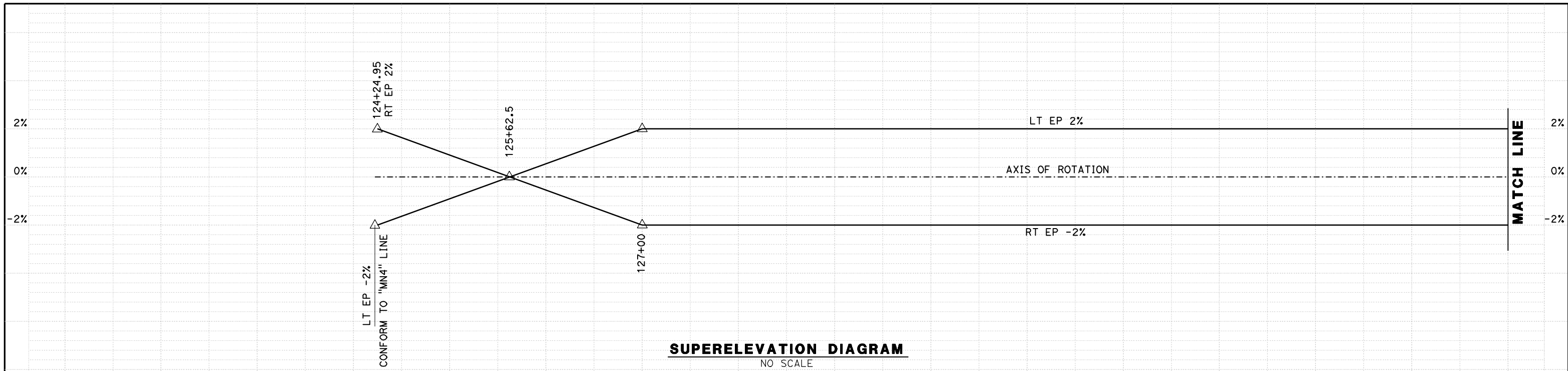
NOT FOR
CONSTRUCTION



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

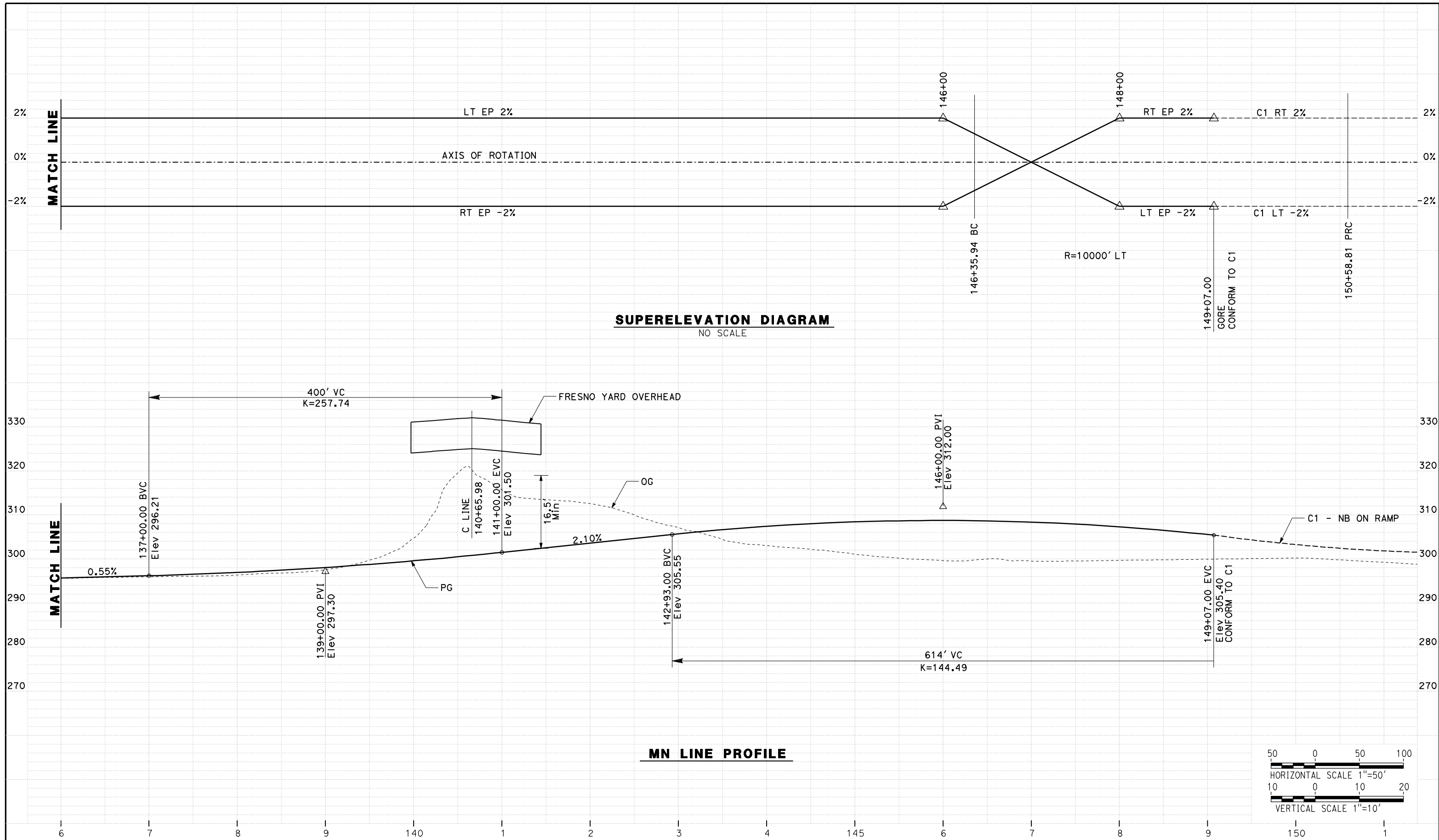
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

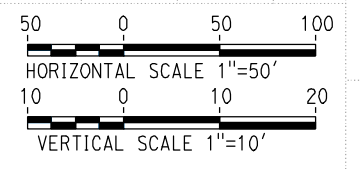
CONTRACT NO.
HSR06-007
DRAWING NO.
P-20
SCALE
AS SHOWN
SHEET NO.

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

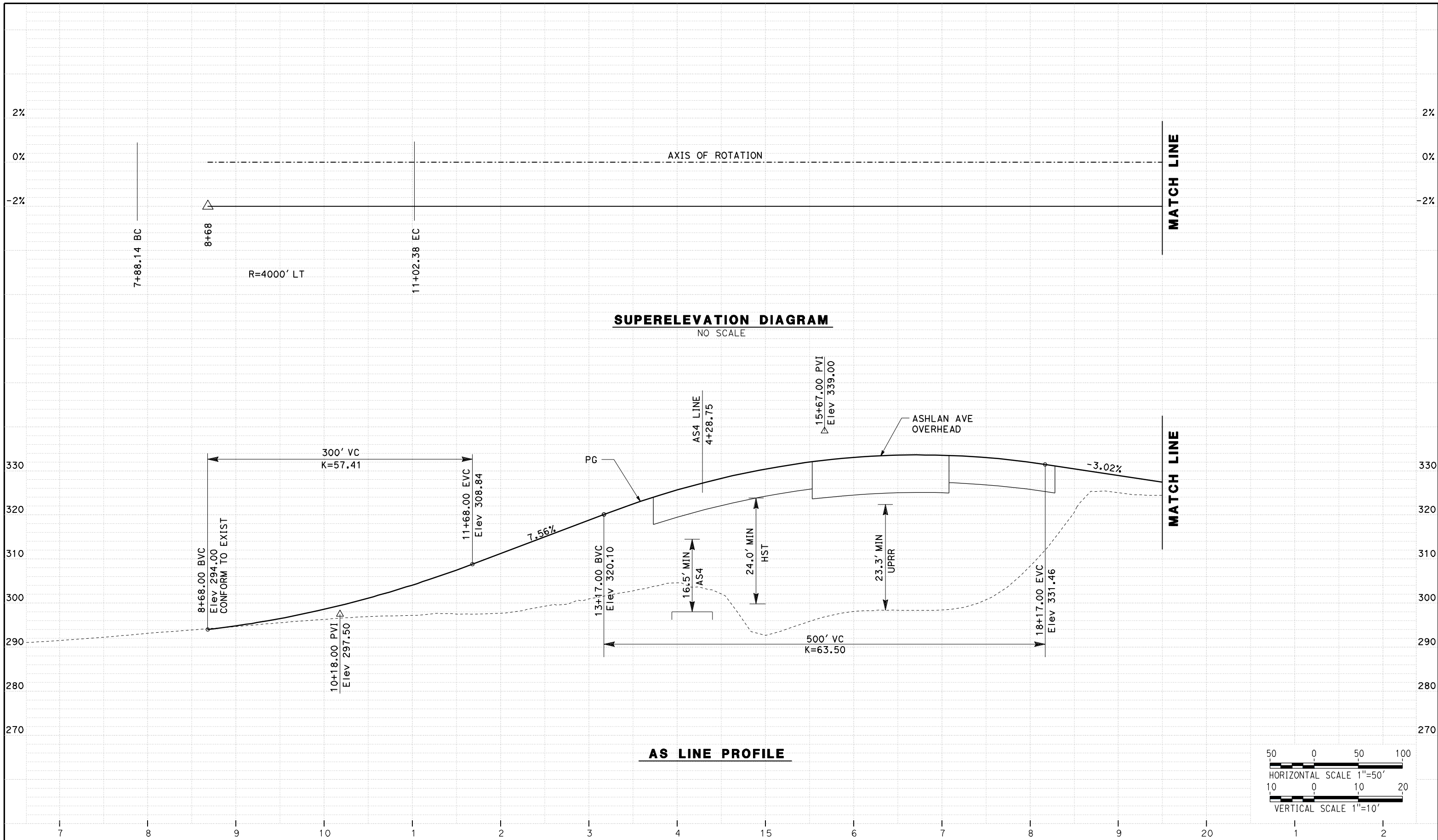
NOT FOR
CONSTRUCTION



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

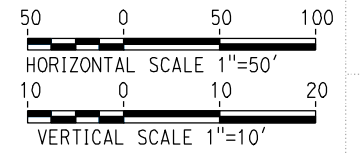
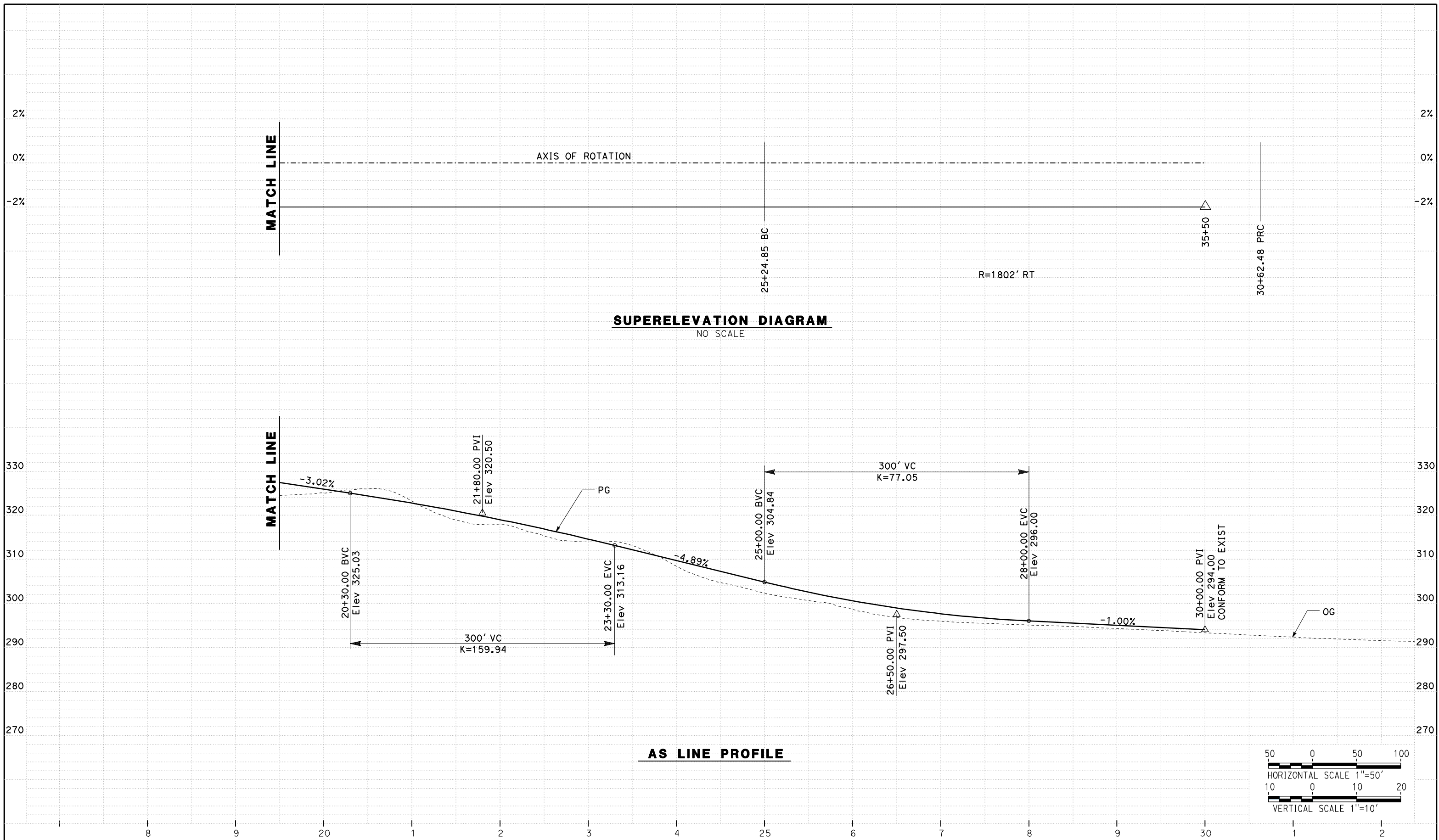
NOT FOR
CONSTRUCTION



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

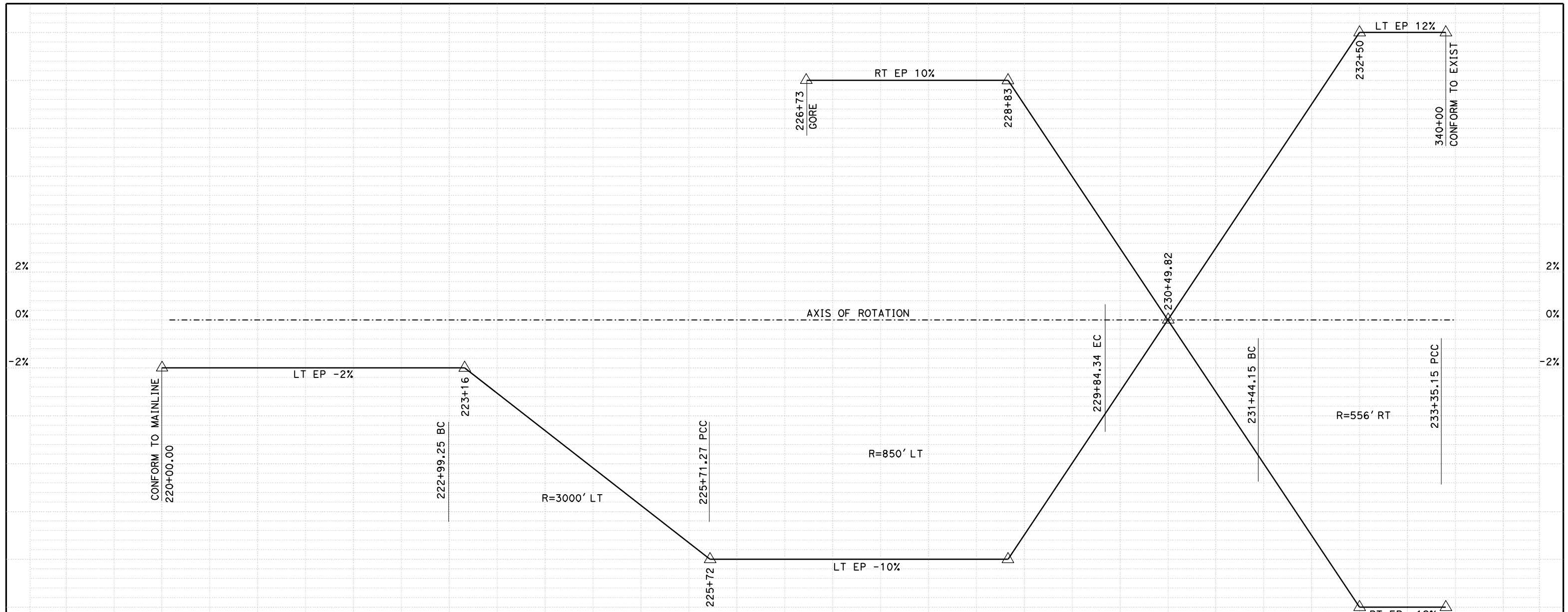
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CONSTRUCTION



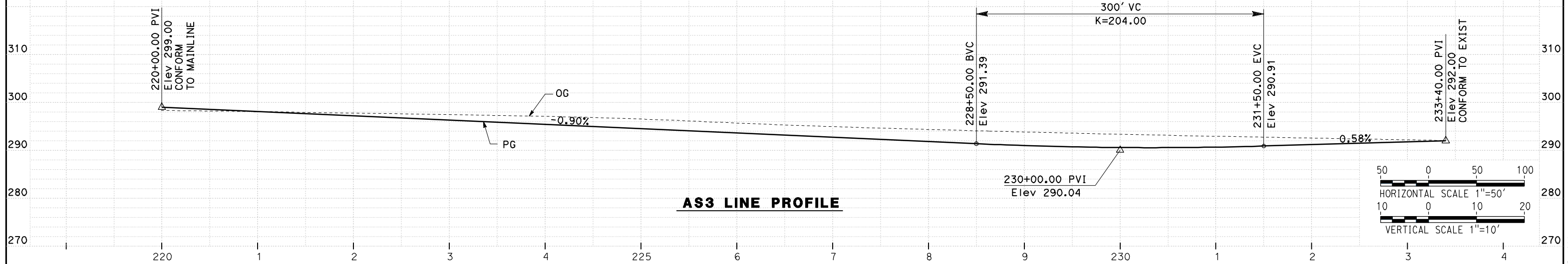
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
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P-23
SCALE
AS SHOWN
SHEET NO.

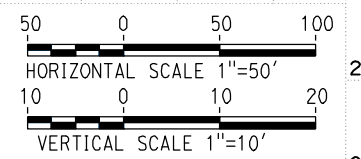
DATE PLOTTED => 26-APR-2011



SUPERELEVATION DIAGRAM
NO SCALE



AS3 LINE PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

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G. MANOREK
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L. ROS
CHECKED BY
L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

RECORD SET
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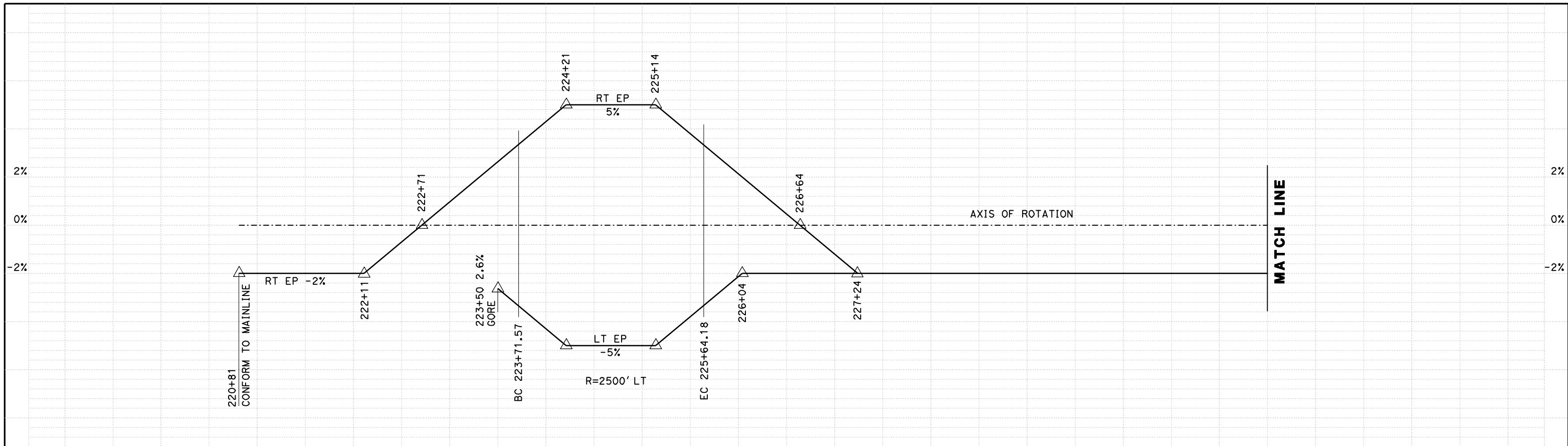
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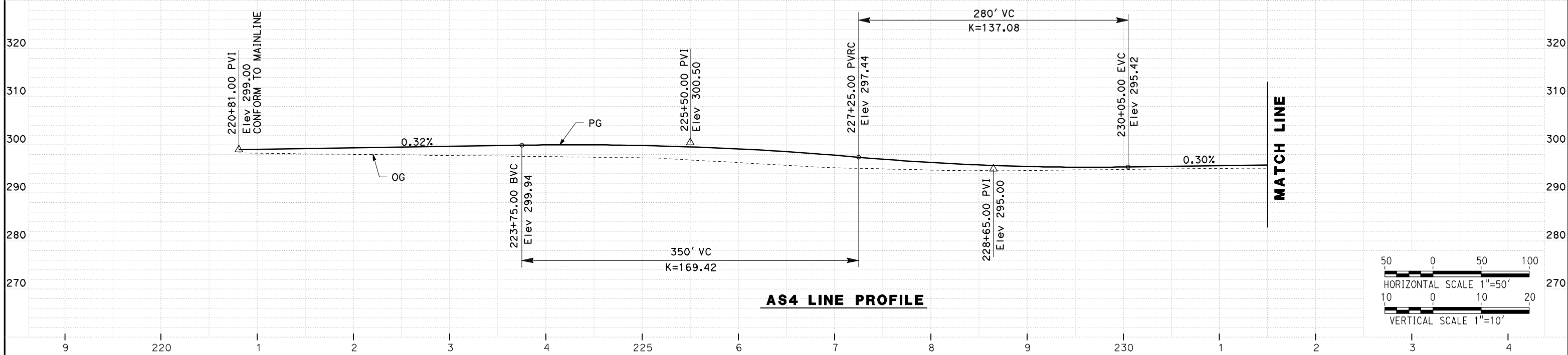
CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
PROFILE AND SUPERELEVATION

CONTRACT NO.
HSR06-007
DRAWING NO.
P-24
SCALE
AS SHOWN
SHEET NO.

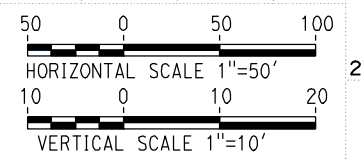
DATE PLOTTED => 26-APR-2011



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
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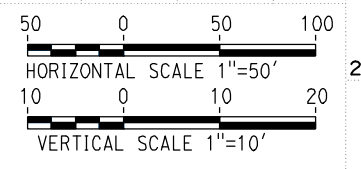
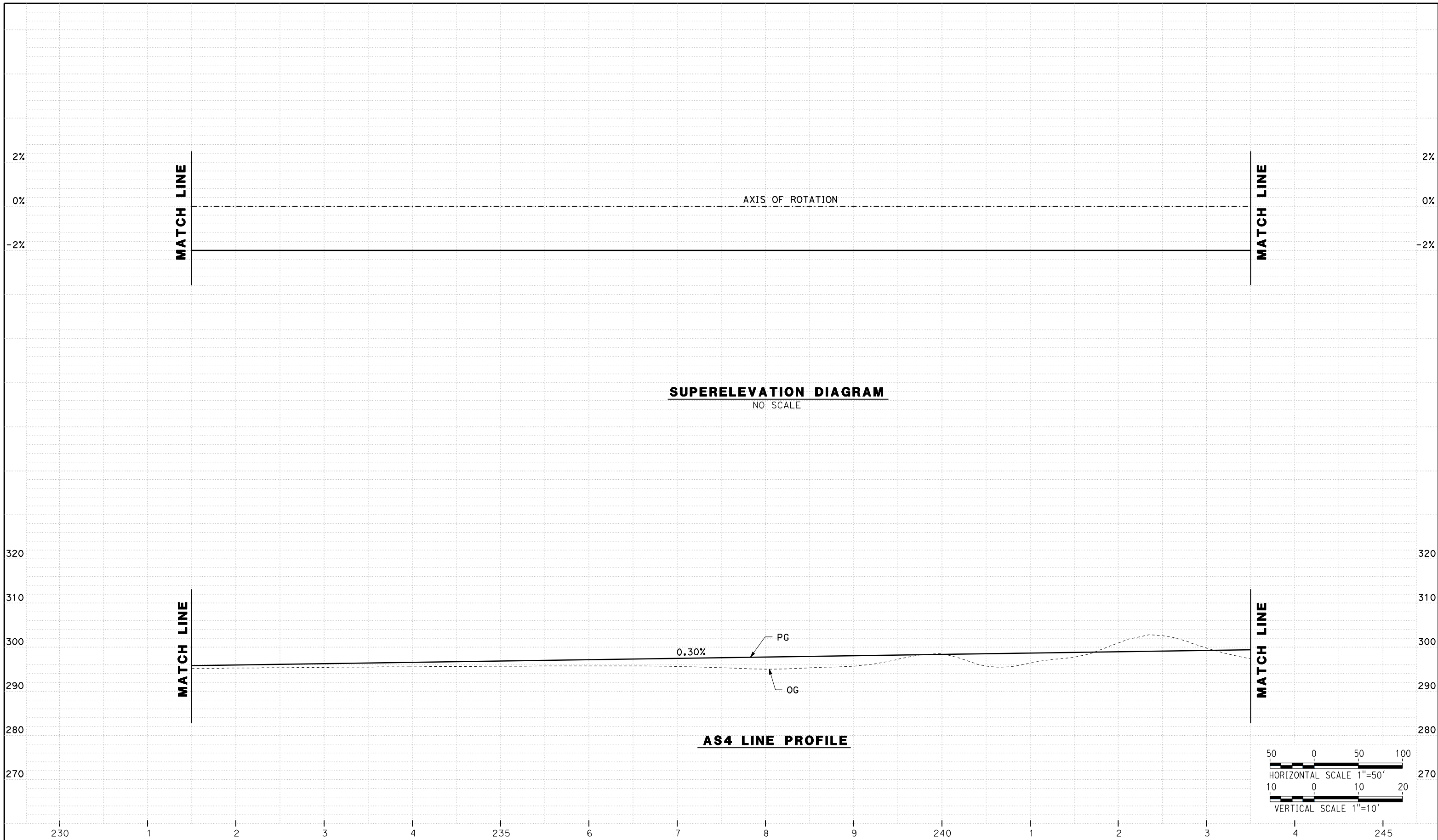
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
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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

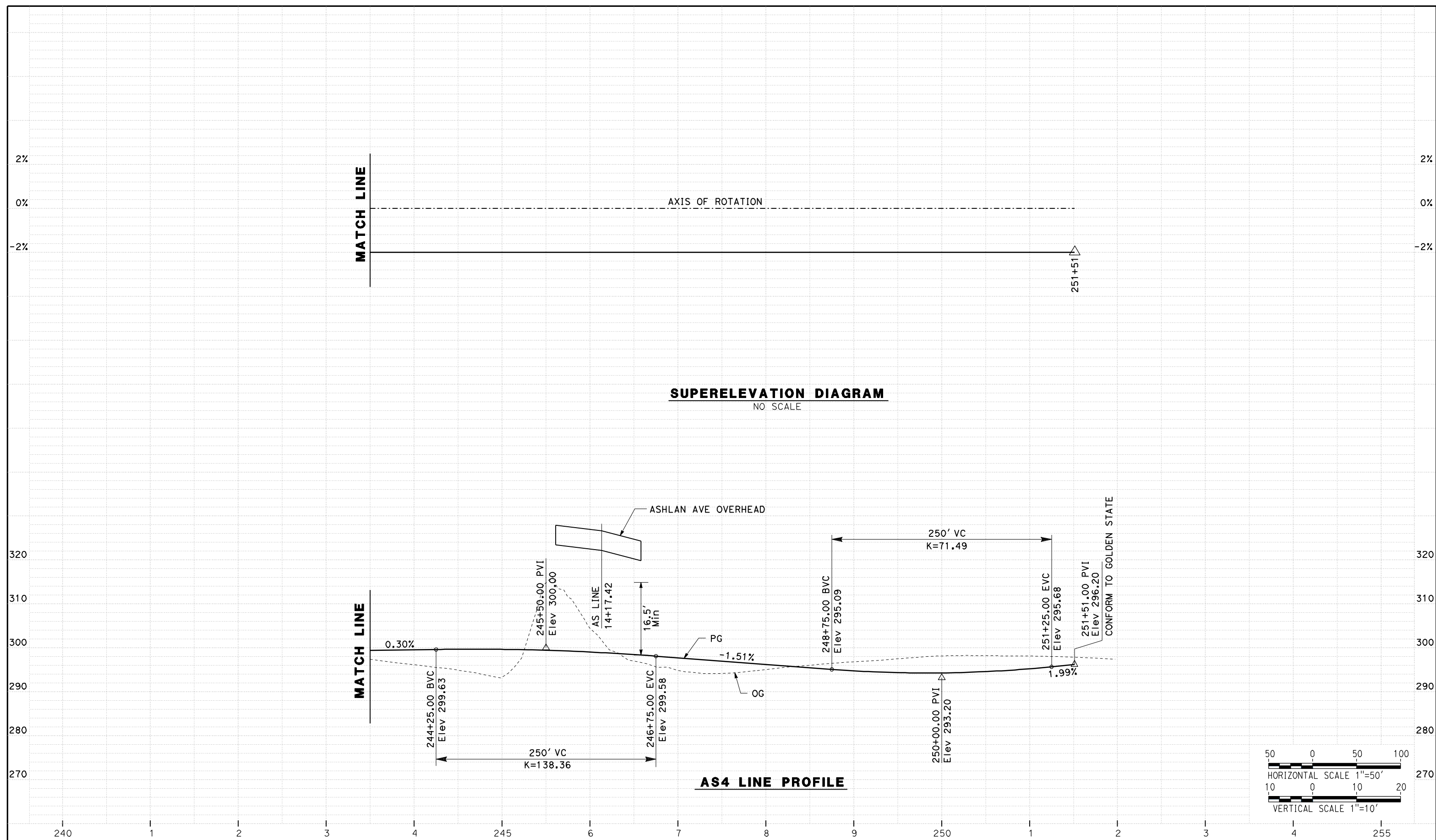
NOT FOR
CONSTRUCTION



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
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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


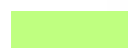
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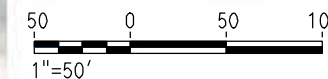
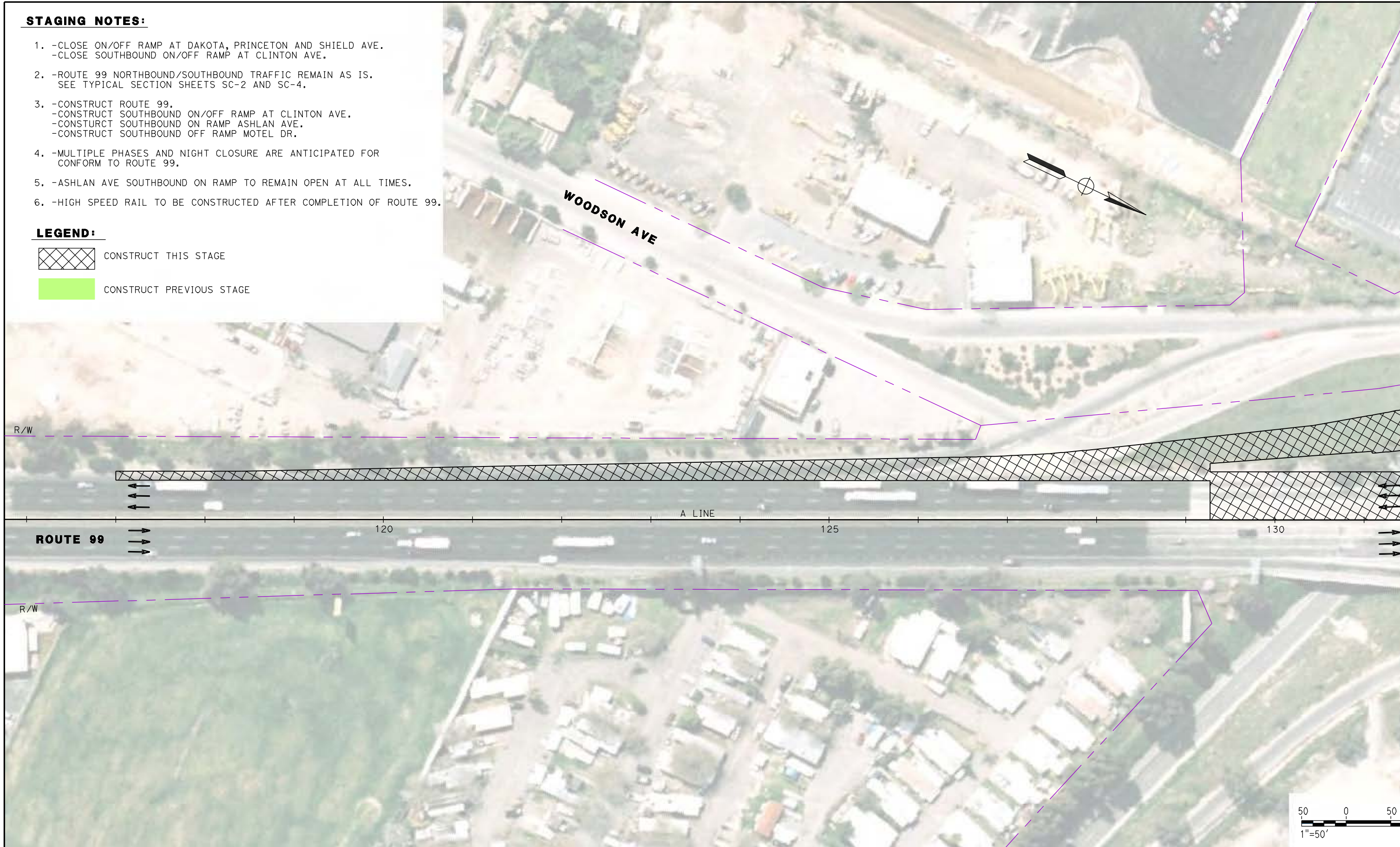
DATE PLOTTED => 26-APR-2011

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



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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L. ROS
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L. HEUSTON
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J. MATSUI-DRURY
DATE
04/29/11

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CONSTRUCTION**

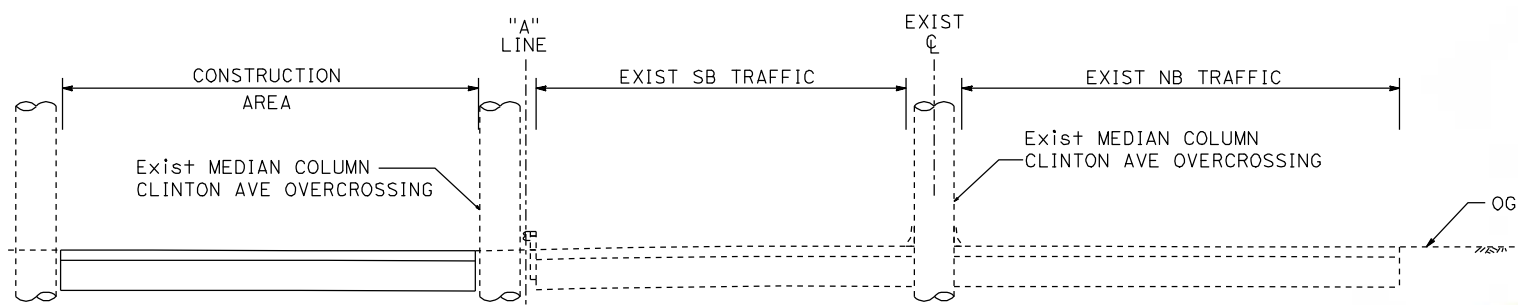


**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION**

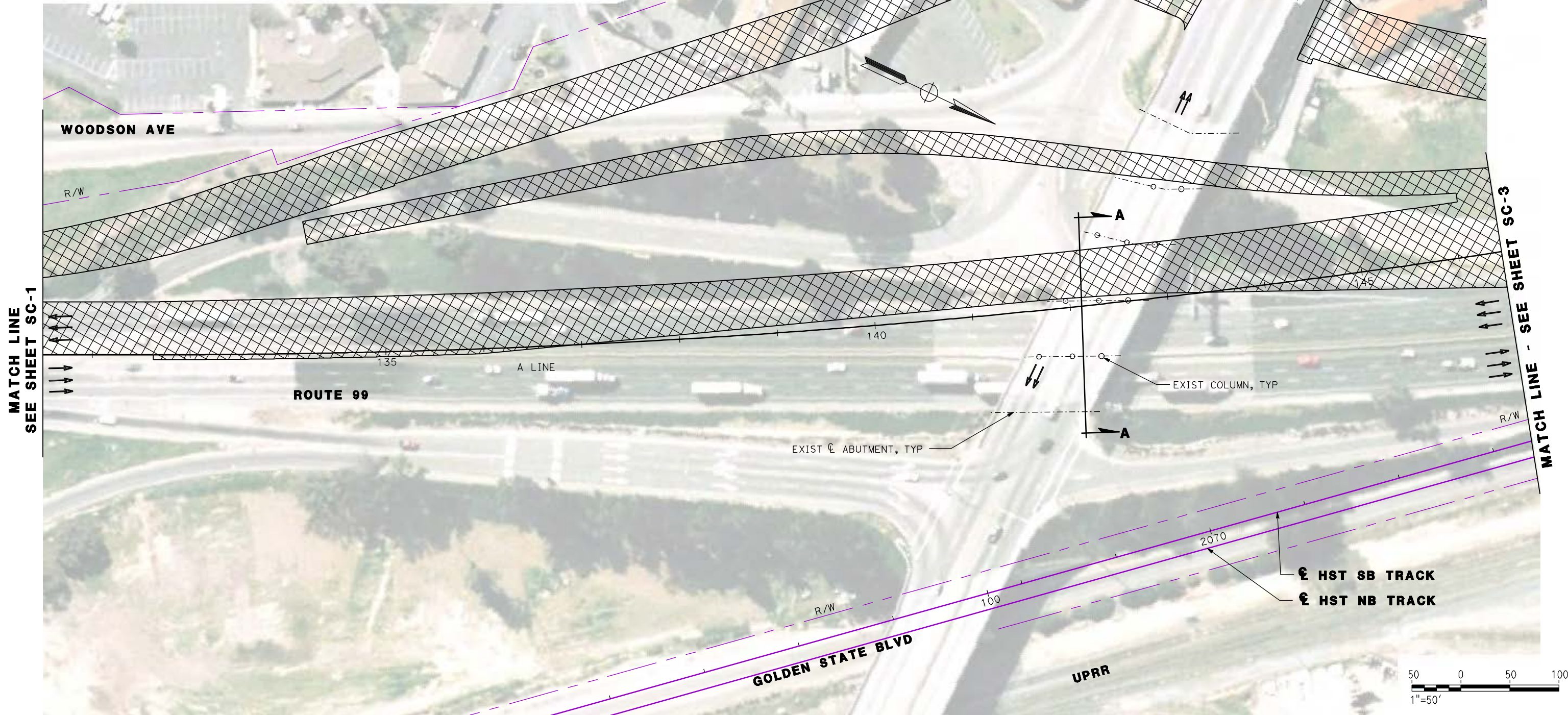
CONTRACT NO.
HSR06-007
DRAWING NO.
SC-1
SCALE
AS SHOWN
SHEET NO.

MATCH LINE - SEE SHEET SC-2

DATE PLOTTED: 03/26/11



**SECTION A-A
ROUTE 99 AT CLINTON AVE**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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DRAWN BY
L. ROS
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L. HEUSTON
IN CHARGE
J. MATSUI-DRURY
DATE
04/29/11

**RECORD SET
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SUBMITTAL**

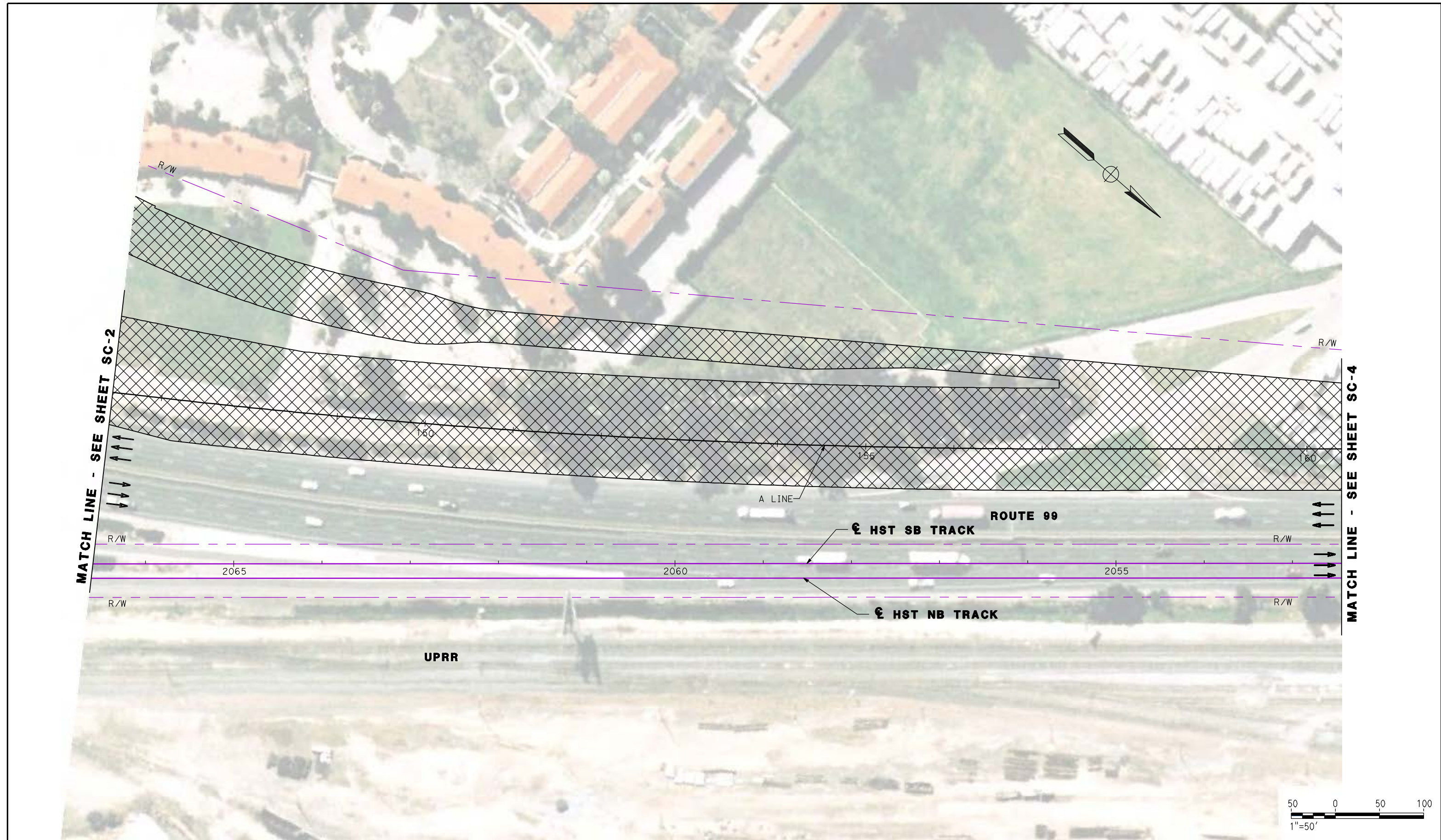
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION**

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-2
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 23-APR-2011



MATCH LINE - SEE SHEET SC-2

MATCH LINE - SEE SHEET SC-4



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

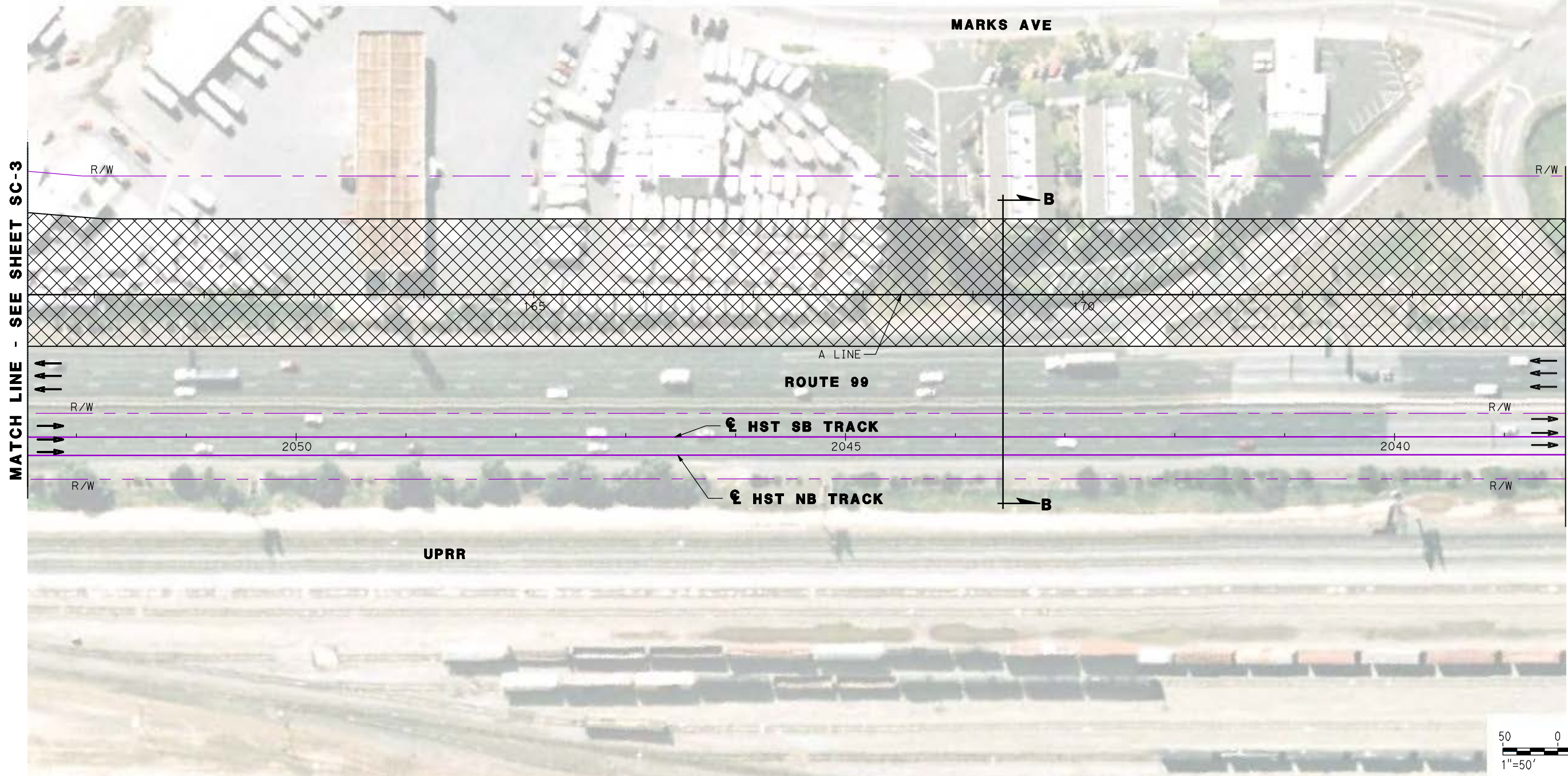
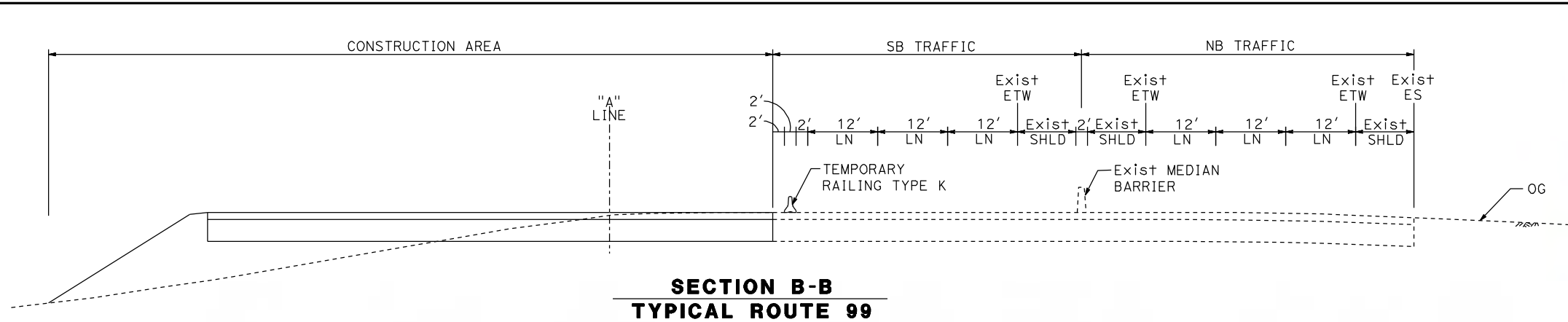
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CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-3
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED: 03/26/11



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. MANOREK
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L. ROS
 CHECKED BY
L. HEUSTON
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J. MATSUI-DRURY
 DATE
04/29/11

RECORD SET
15% DESIGN
SUBMITTAL

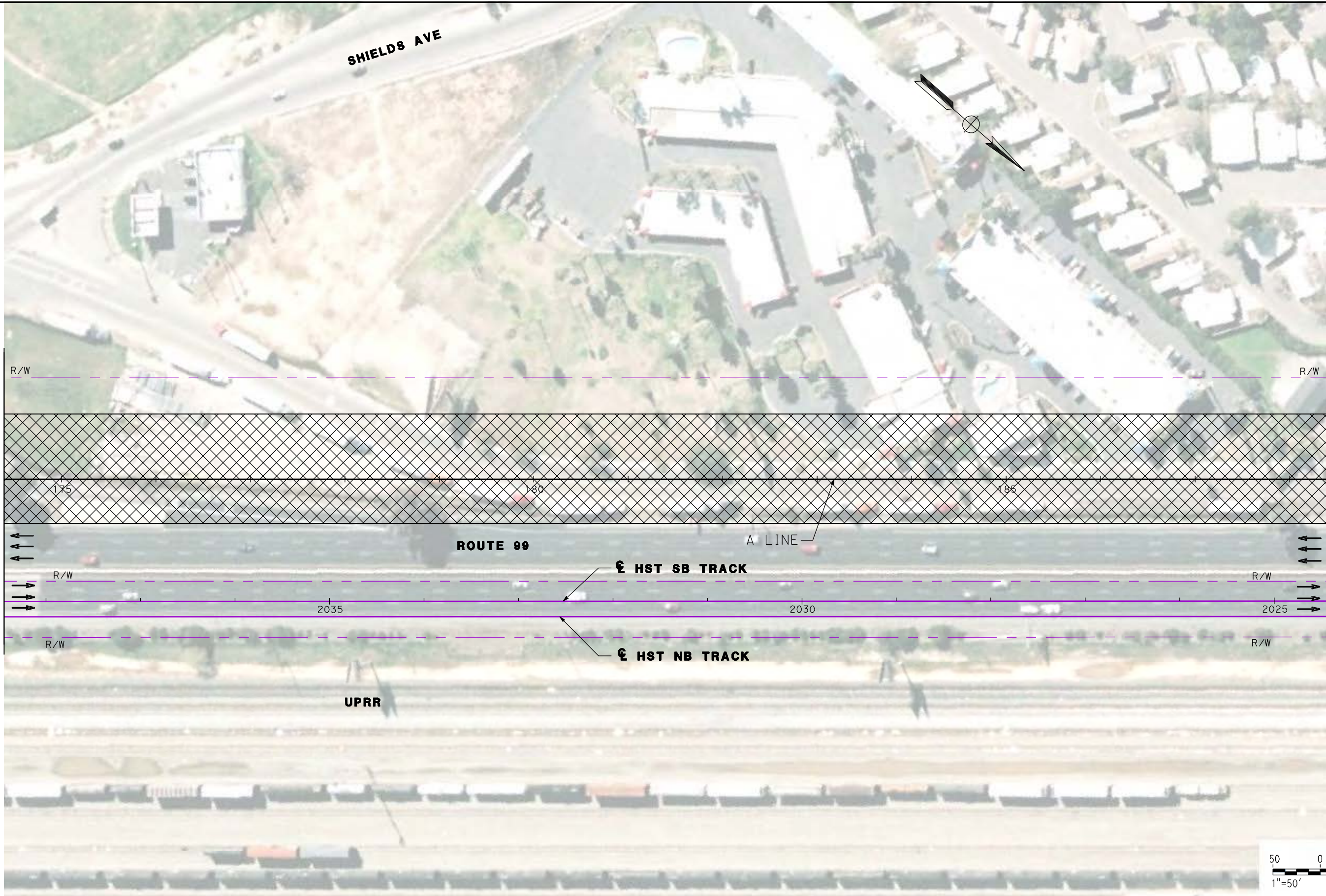
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CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

CONTRACT NO.
HSR06-007
 DRAWING NO.
SC-4
 SCALE
AS SHOWN
 SHEET NO.

DATE PLOTTED: 23-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

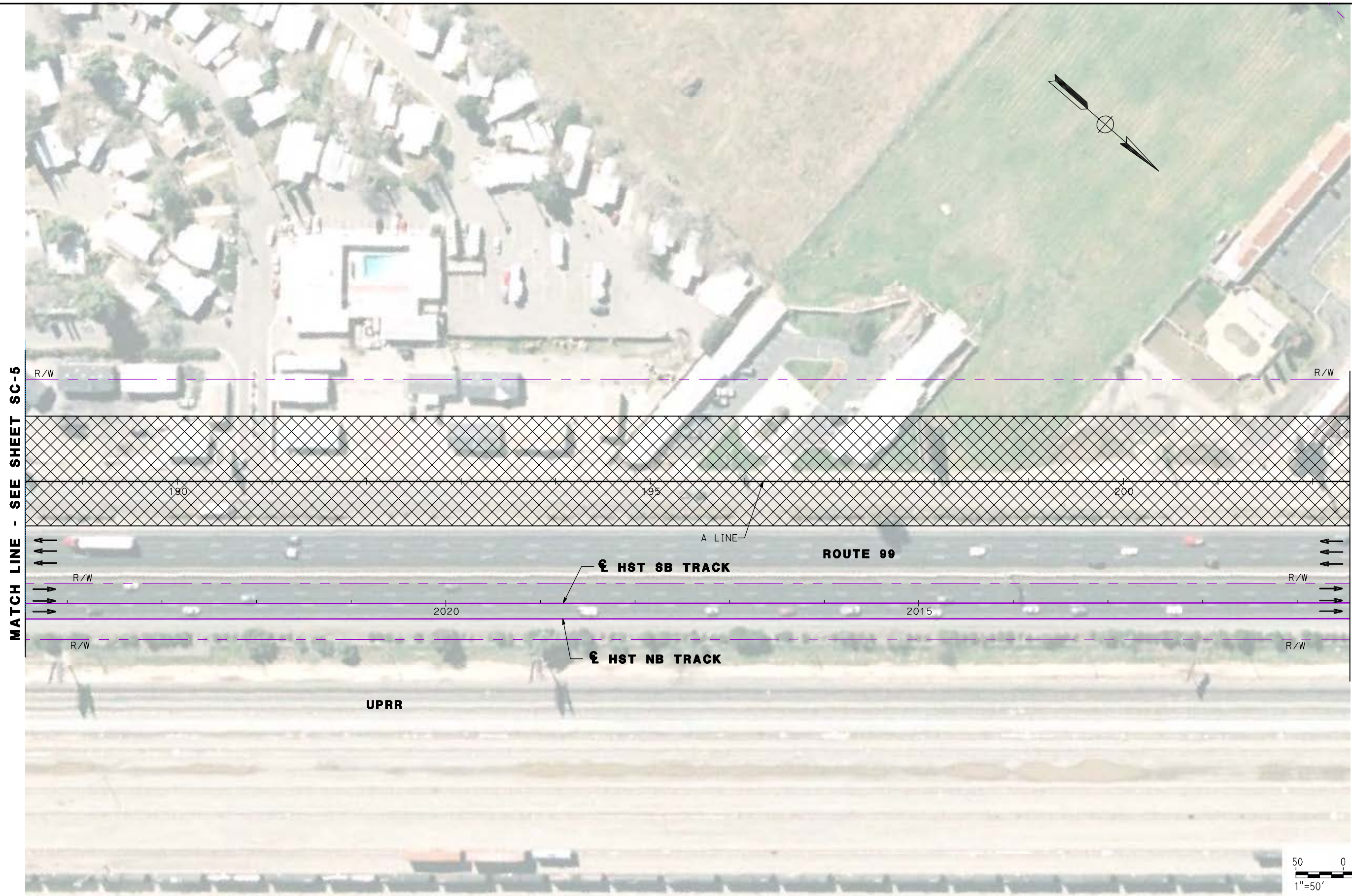
NOT FOR
CONSTRUCTION



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

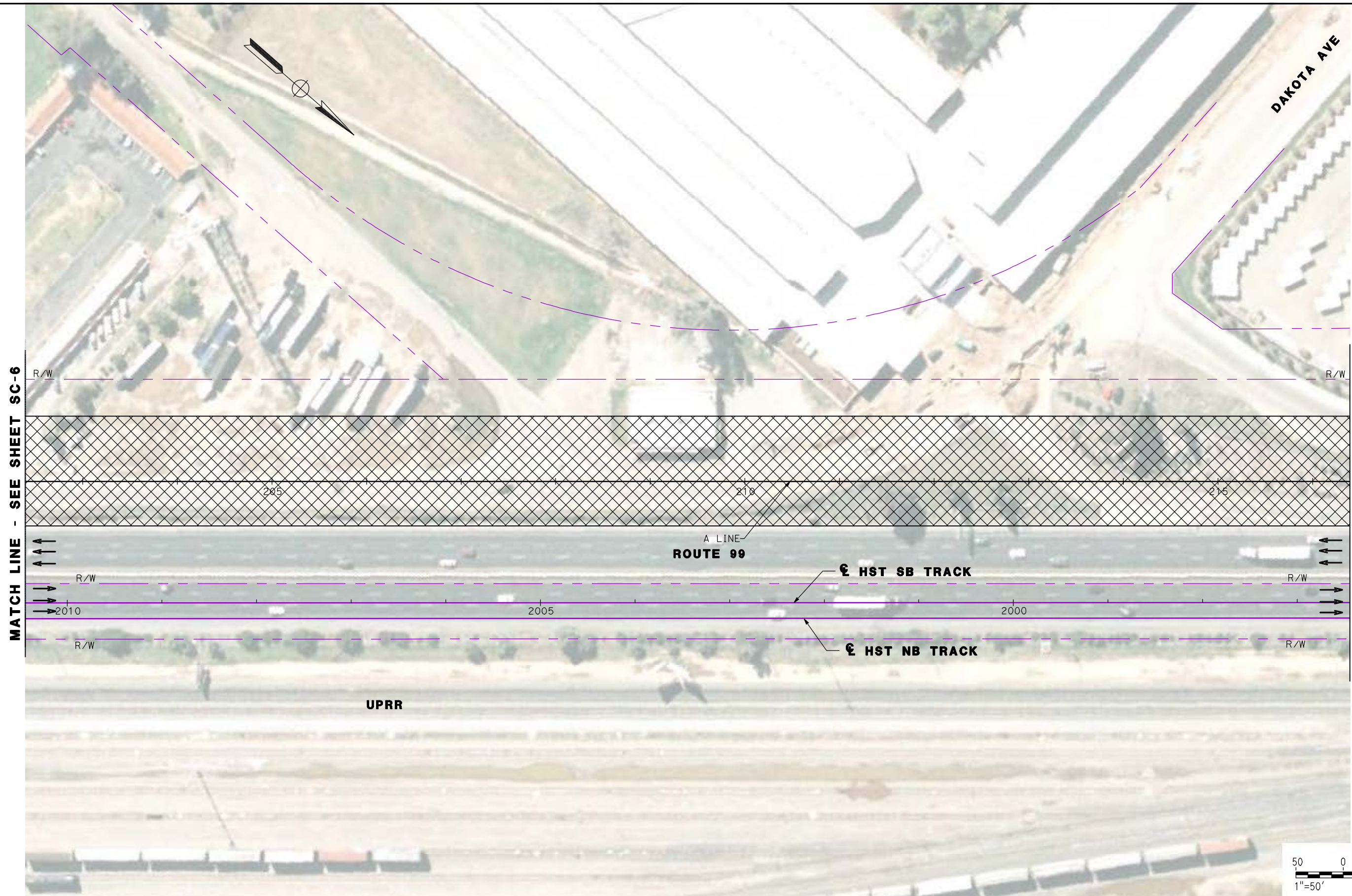
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

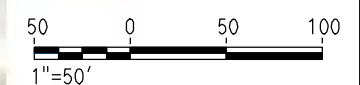
CONTRACT NO.
HSR06-007
DRAWING NO.
SC-6
SCALE
AS SHOWN
SHEET NO.

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

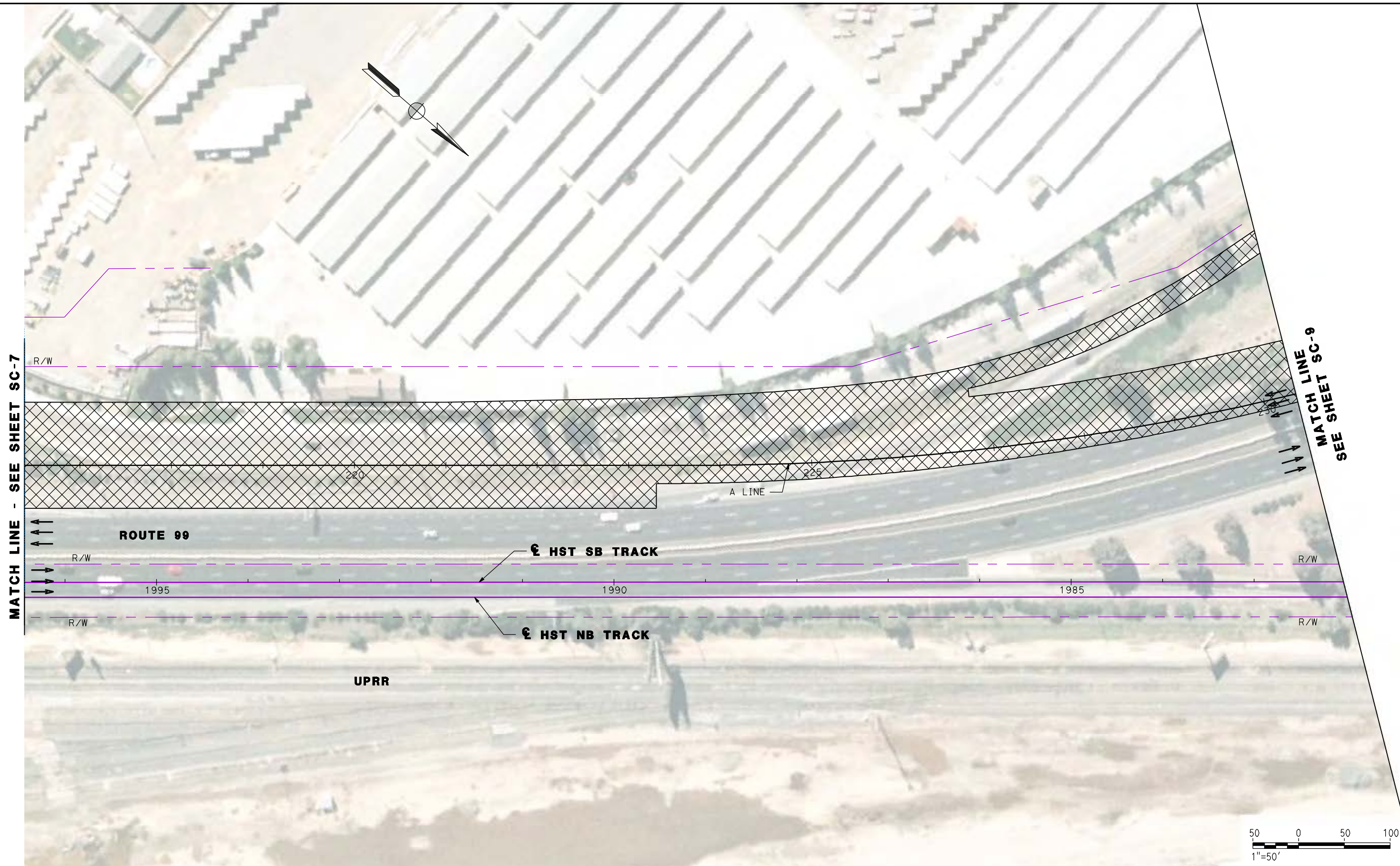
NOT FOR
CONSTRUCTION



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



MATCH LINE - SEE SHEET SC-7

MATCH LINE SC-9
SEE SHEET SC-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

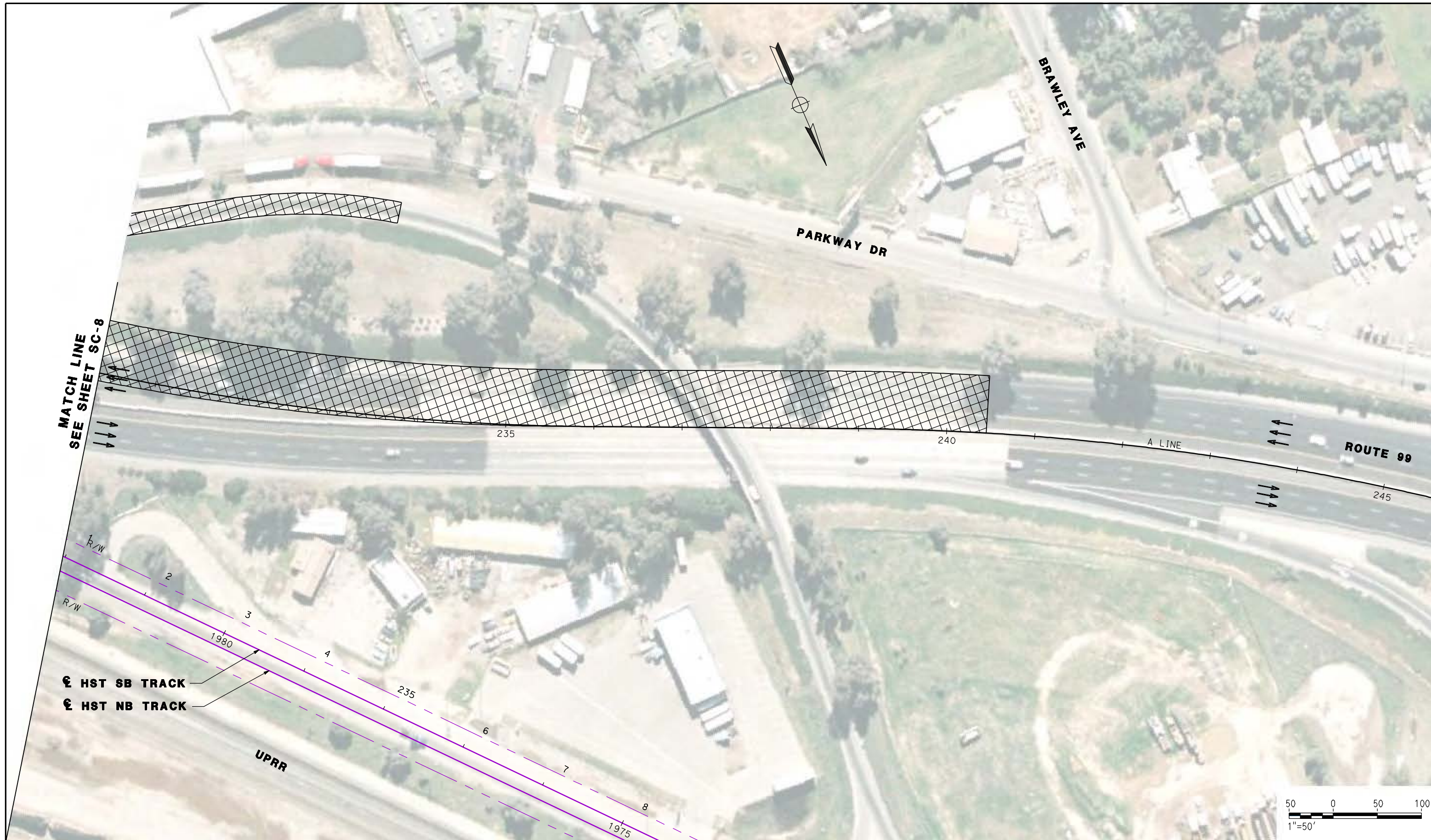
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 1 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-8
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



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


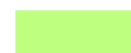
CONTRACT NO.
HSR06-007
DRAWING NO.
SC-9
SCALE
AS SHOWN
SHEET NO.

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



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

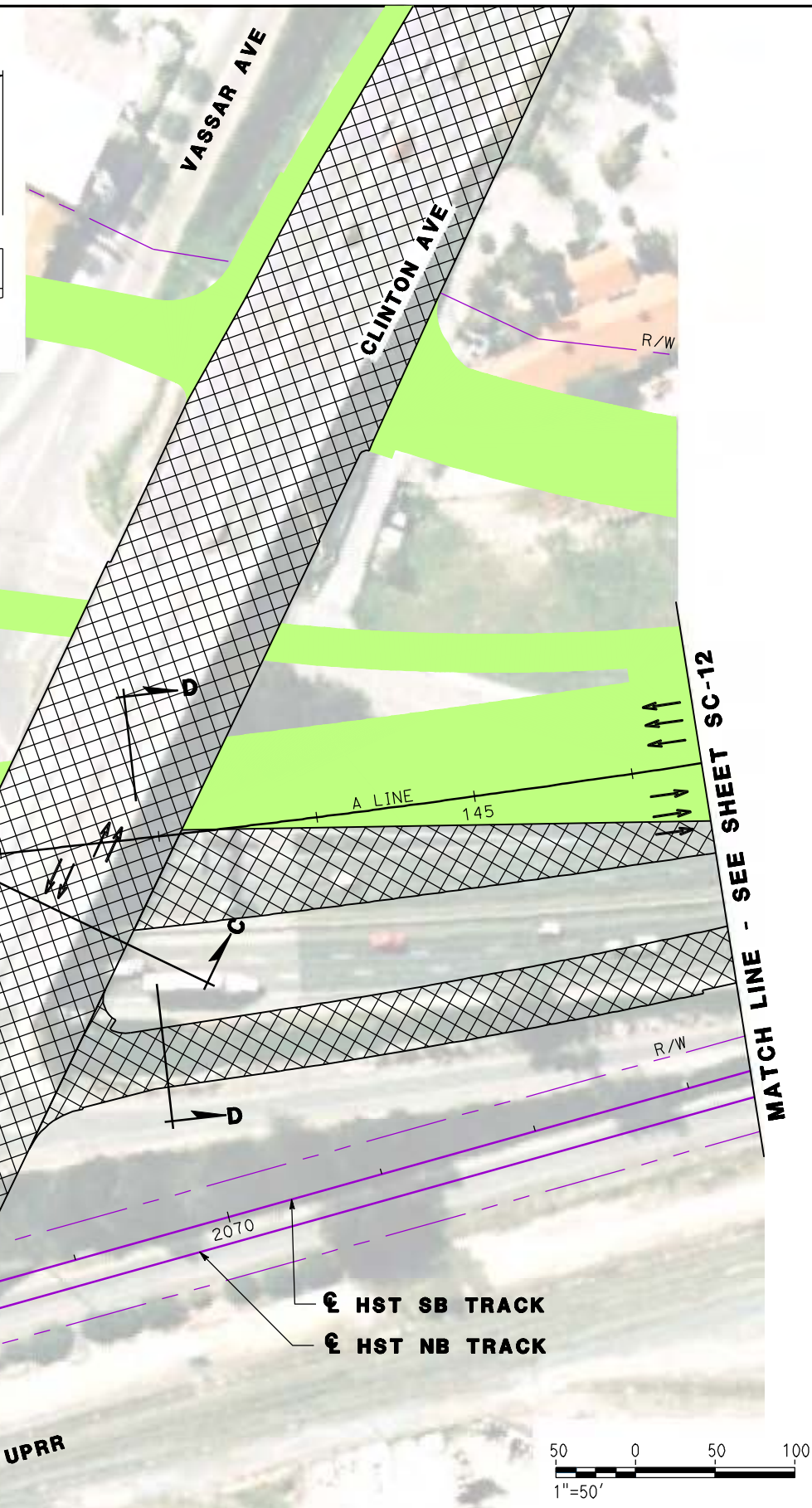
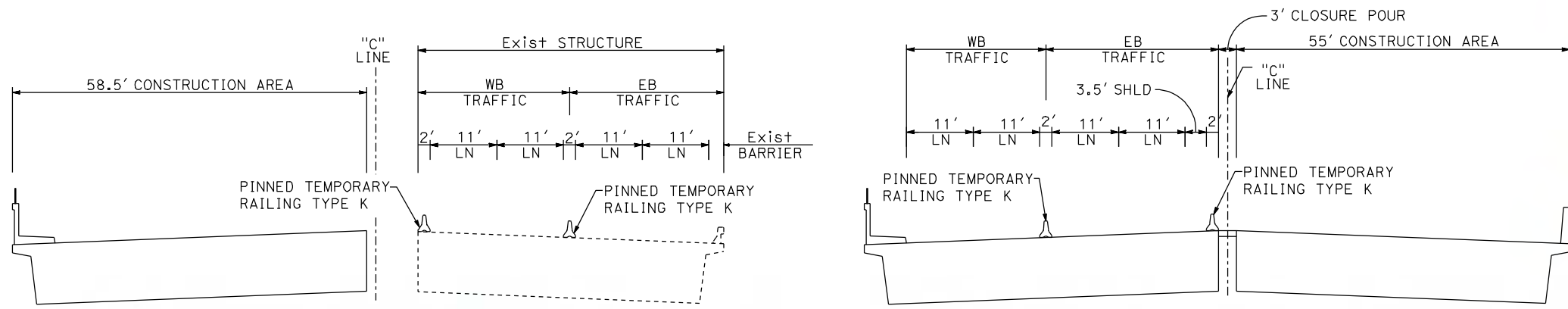
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

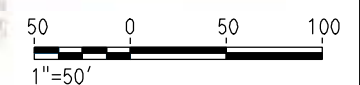
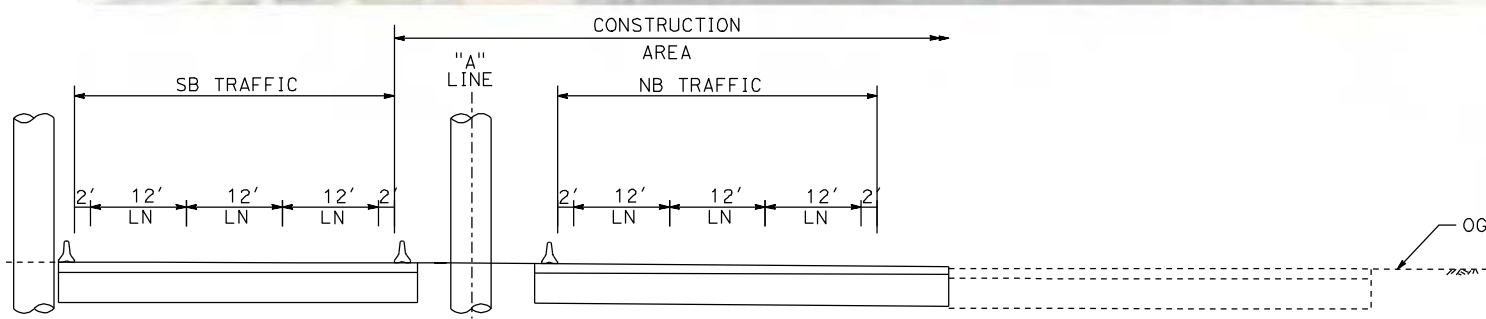
CONTRACT NO.
HSR06-007
DRAWING NO.
SC-10
SCALE
AS SHOWN
SHEET NO.

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**

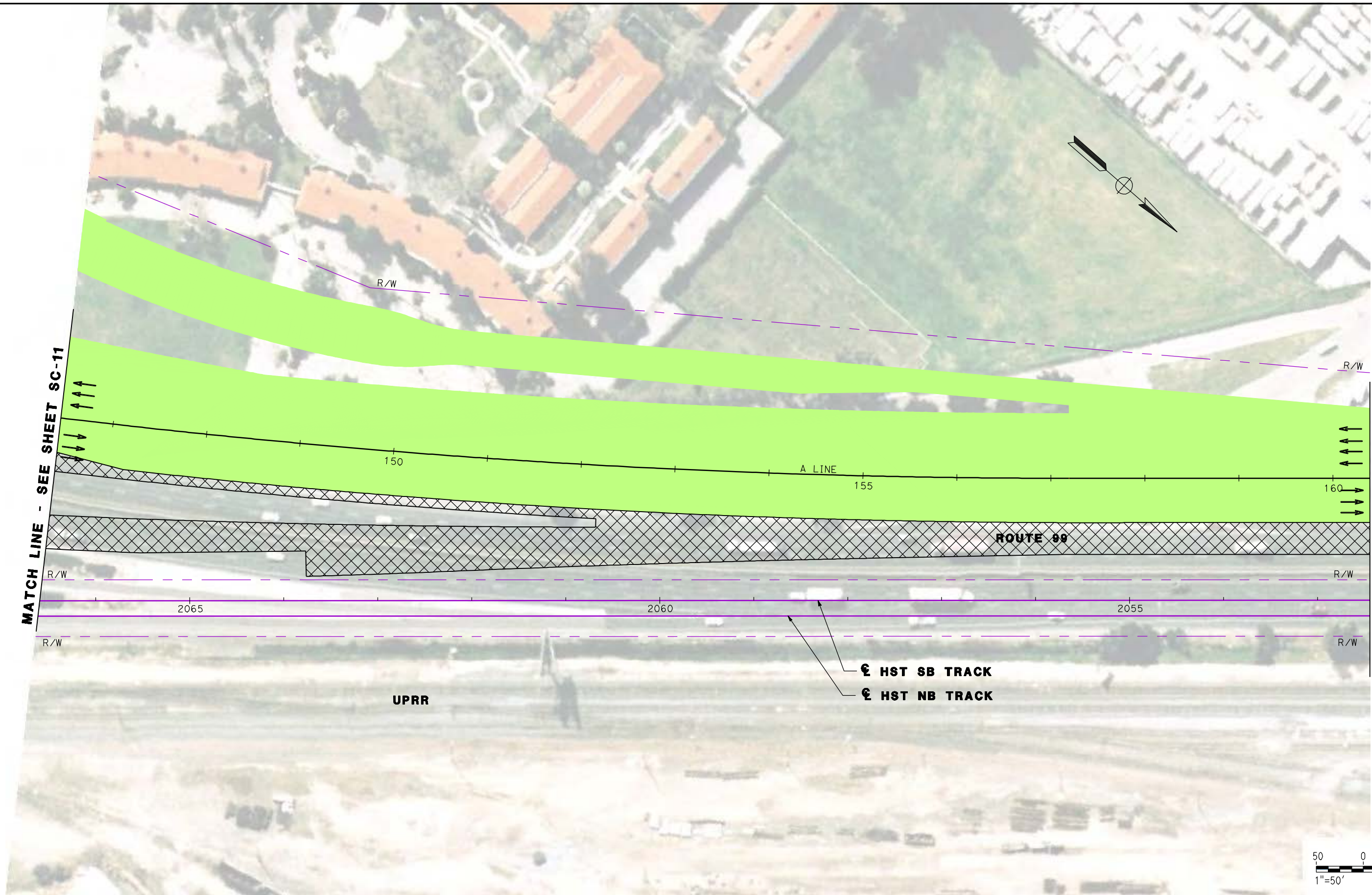
**NOT FOR
CONSTRUCTION**



**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 09:20:11



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

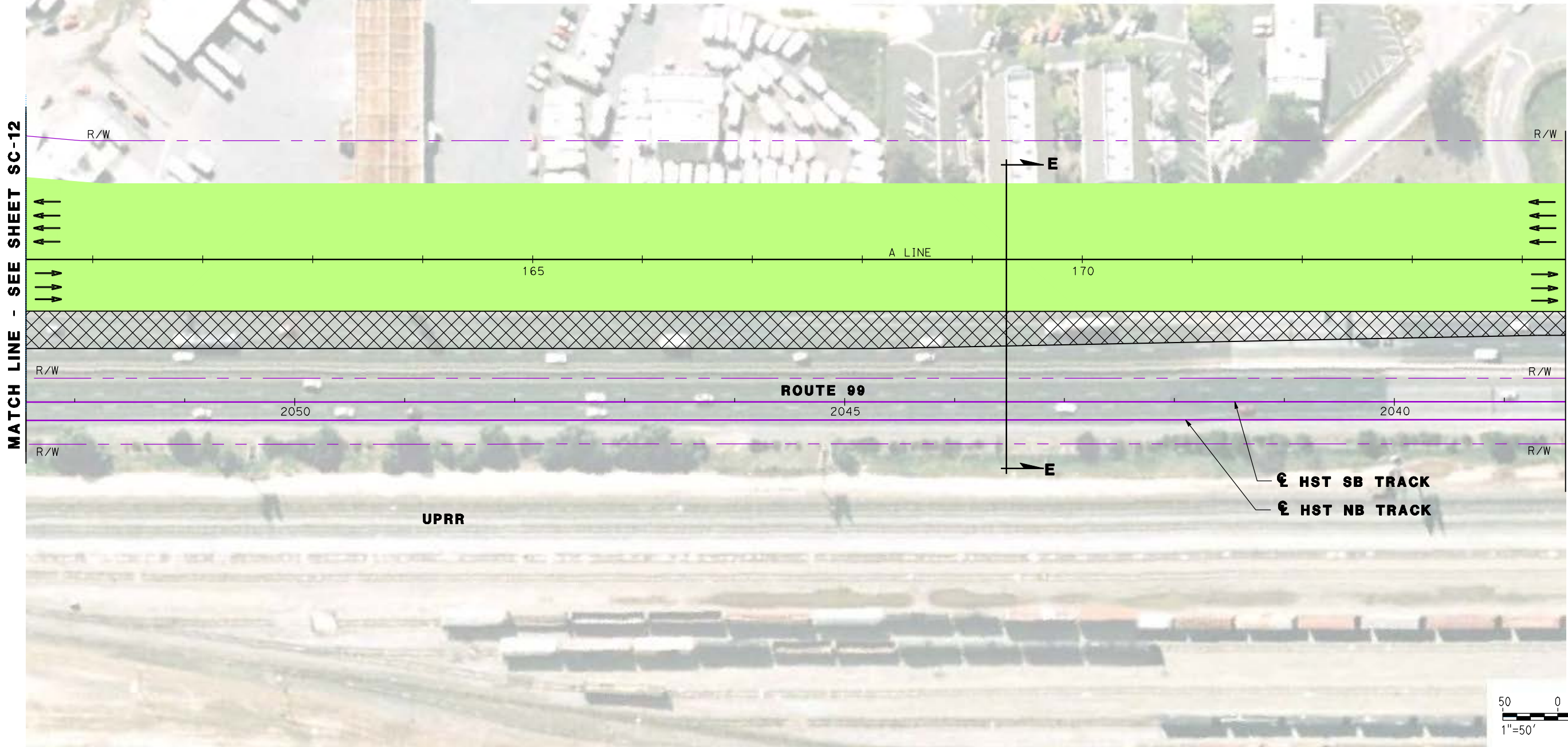
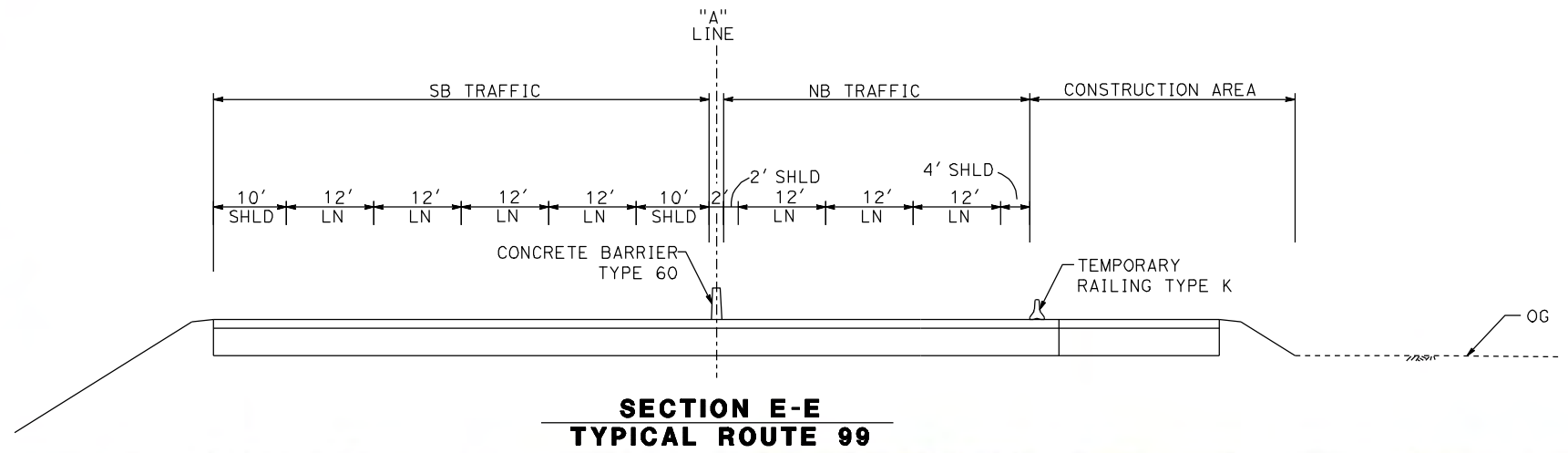
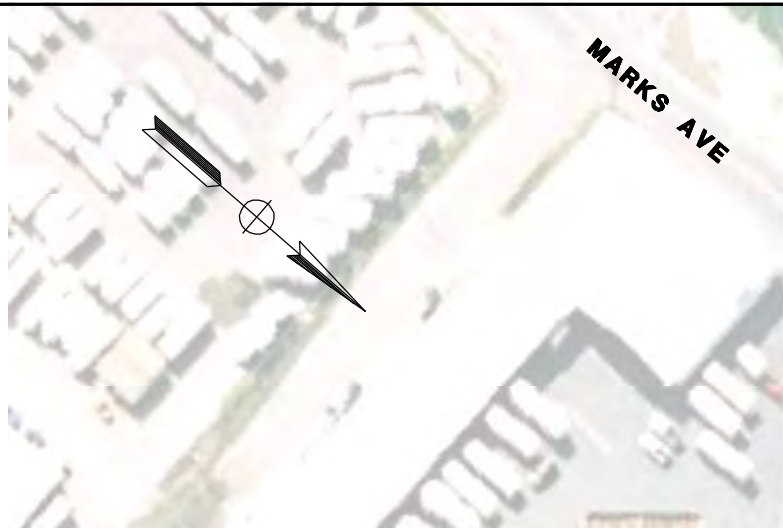
NOT FOR
CONSTRUCTION



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: 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

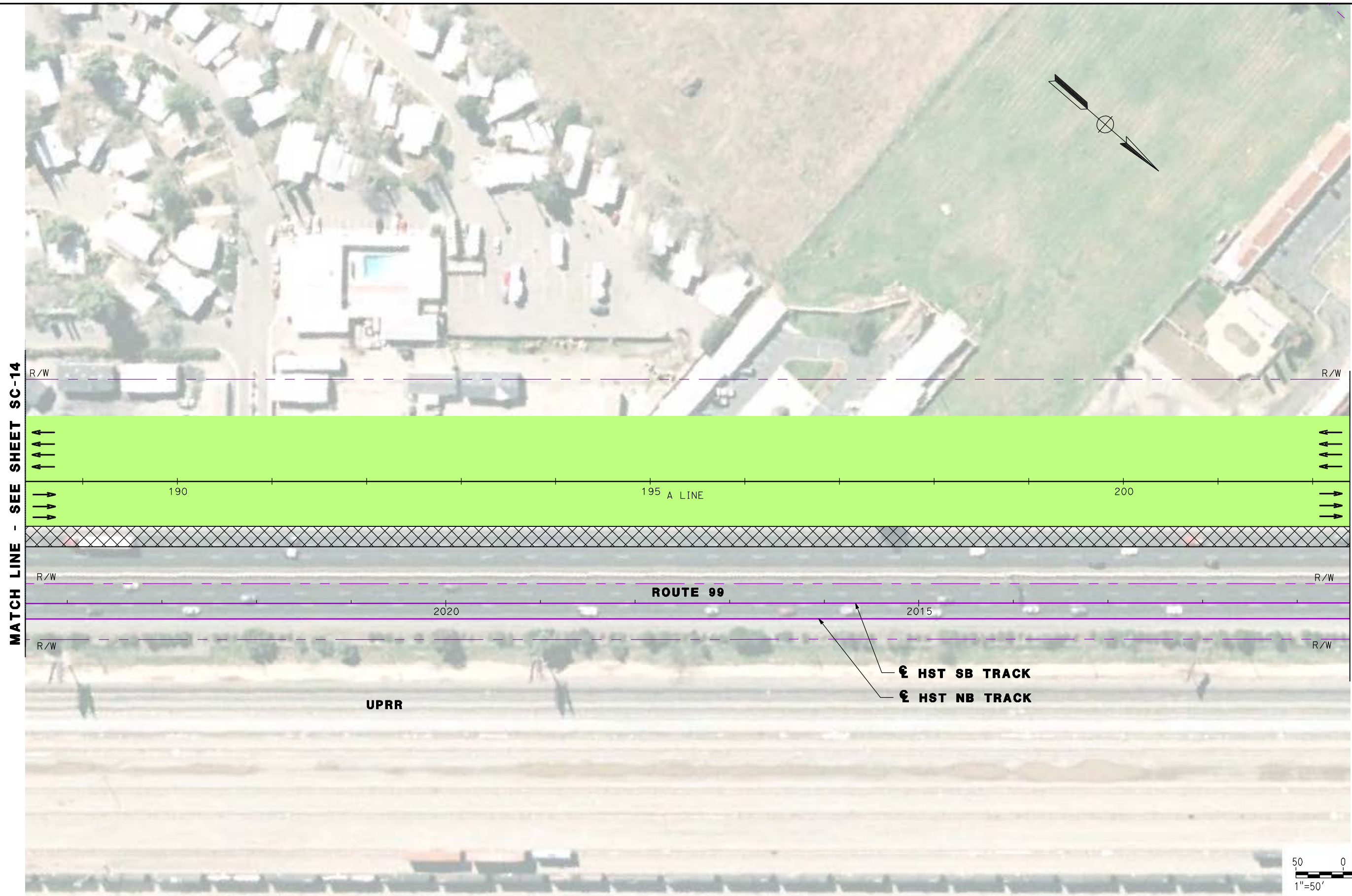
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

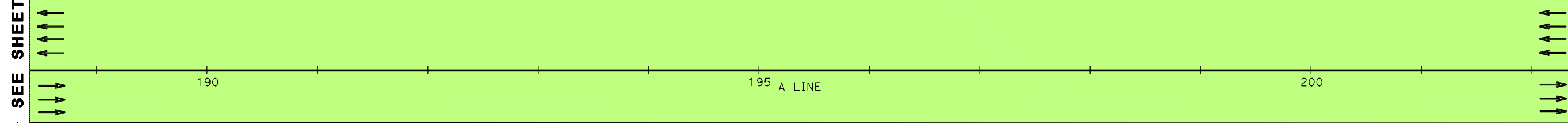
CONTRACT NO.
HSR06-007
 DRAWING NO.
SC-13
 SCALE
AS SHOWN
 SHEET NO.

DATE PLOTTED => 26-APR-2011

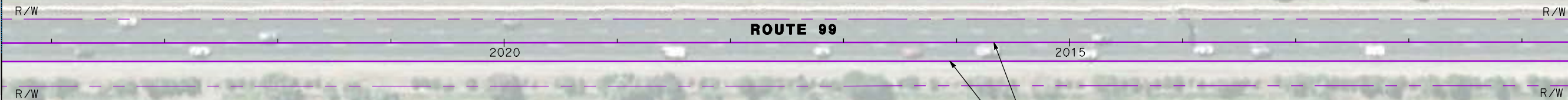


MATCH LINE - SEE SHEET SC-14

MATCH LINE - SEE SHEET SC-16



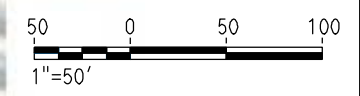
190 195 A LINE 200



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

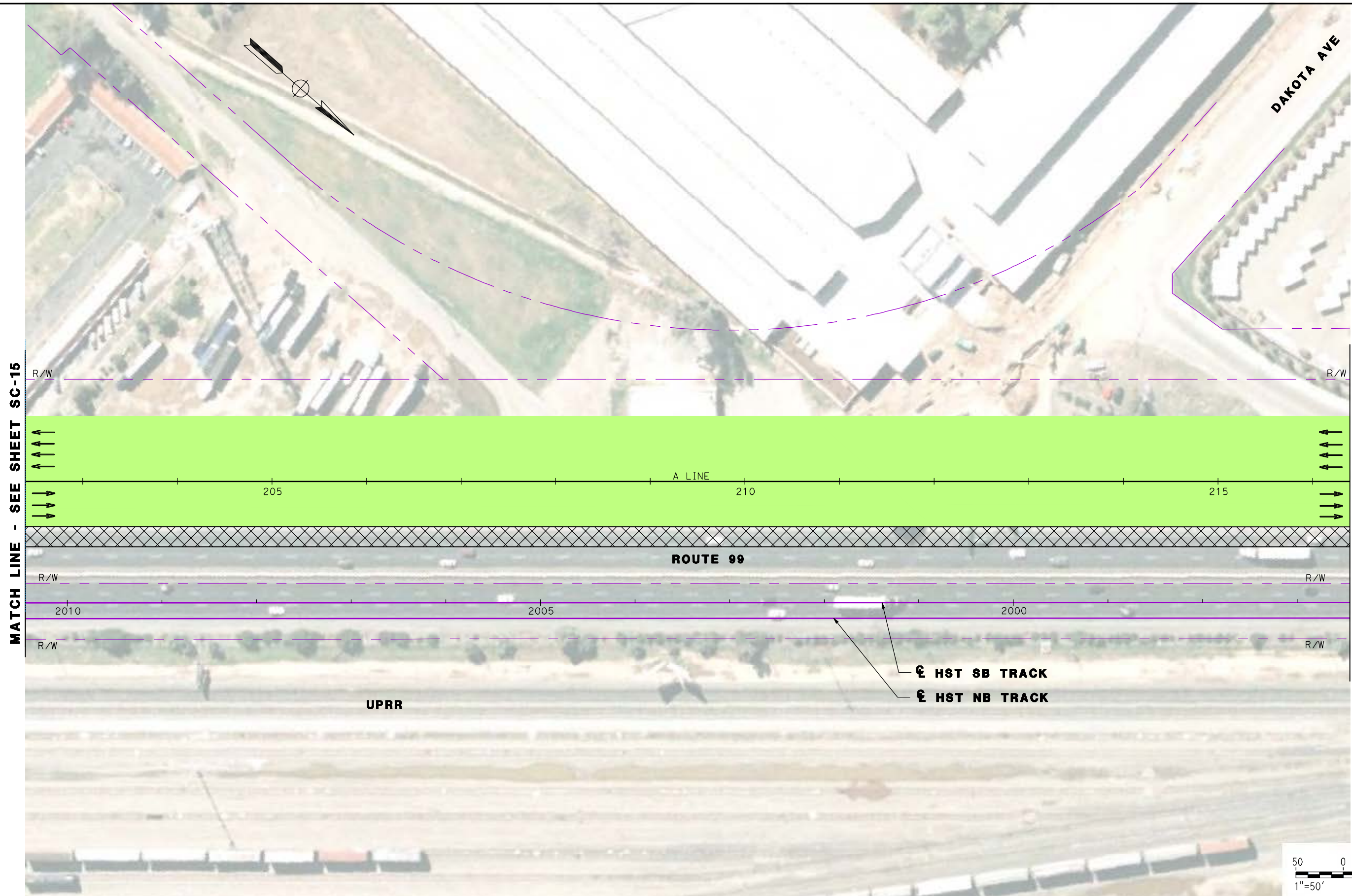
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
STAGE 2 CONSTRUCTION

CONTRACT NO.
HSR06-007
DRAWING NO.
SC-15
SCALE
AS SHOWN
SHEET NO.

DATE PLOTTED => 26-APR-2011



MATCH LINE - SEE SHEET SC-15

MATCH LINE - SEE SHEET SC-17

205

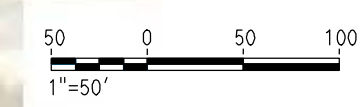
210

215

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

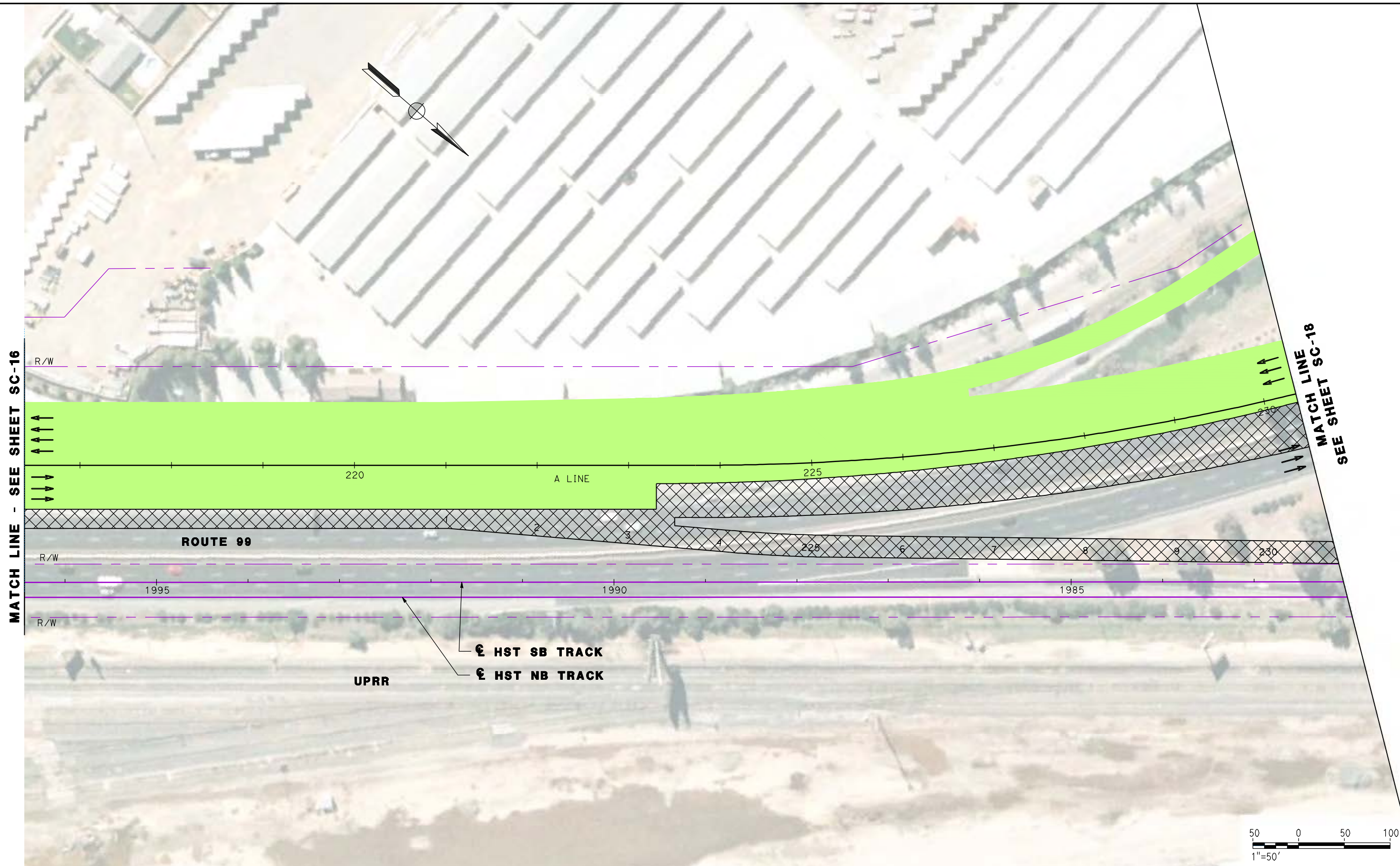
NOT FOR
CONSTRUCTION



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 => 26-APR-2011



MATCH LINE - SEE SHEET SC-16

MATCH LINE SC-18
SEE SHEET

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

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CONSTRUCTION

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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
STAGE 2 CONSTRUCTION

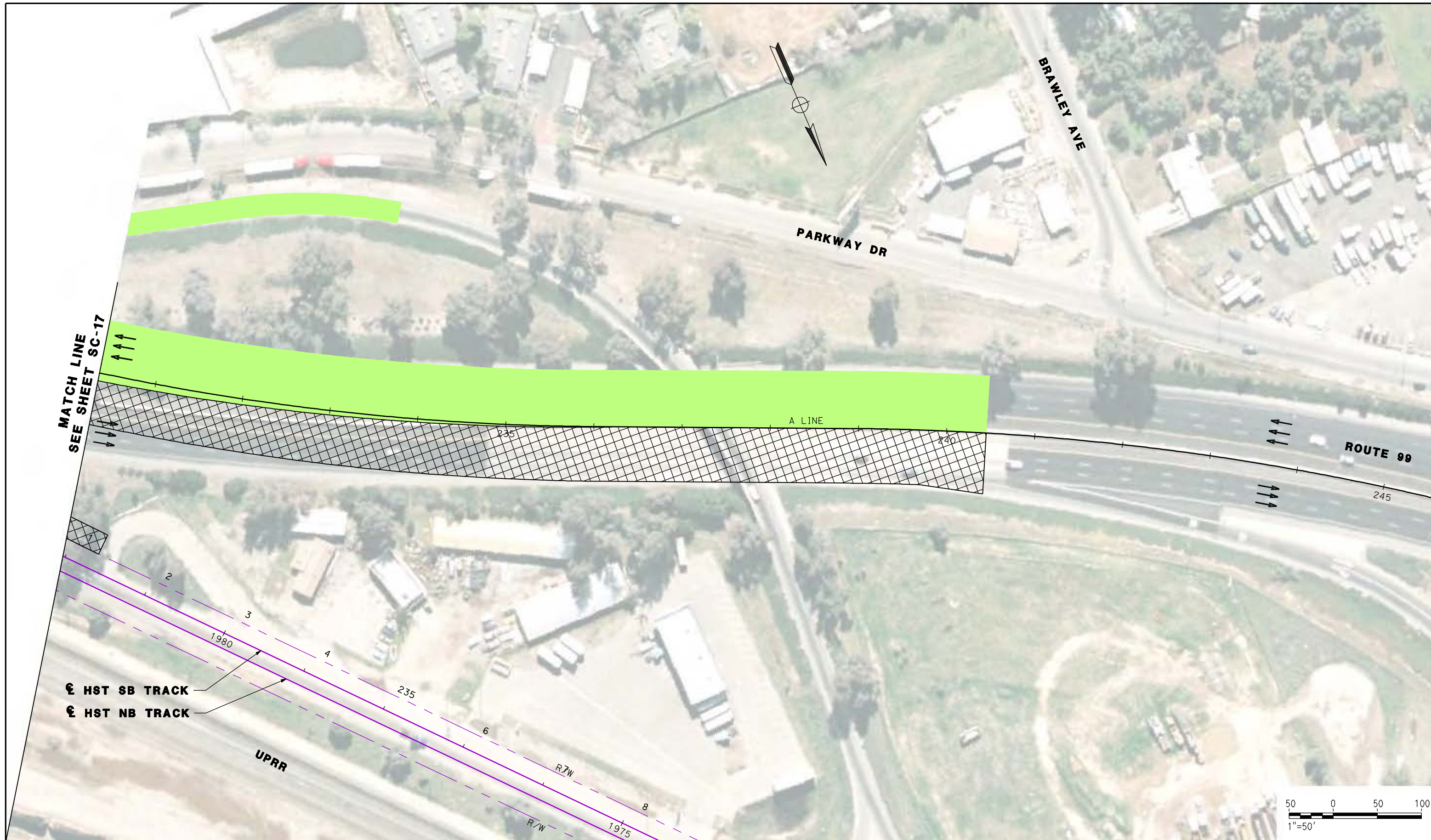
CONTRACT NO.
HSR06-007

DRAWING NO.
SC-17

SCALE
AS SHOWN

SHEET NO.

DATE PLOTTED => 26-APR-2011



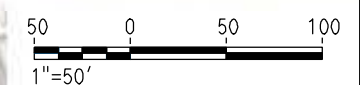
MATCH LINE
SEE SHEET SC-17

⊕ HST SB TRACK
⊕ HST NB TRACK

UPRR

A LINE

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

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Sacramento, CA 95811

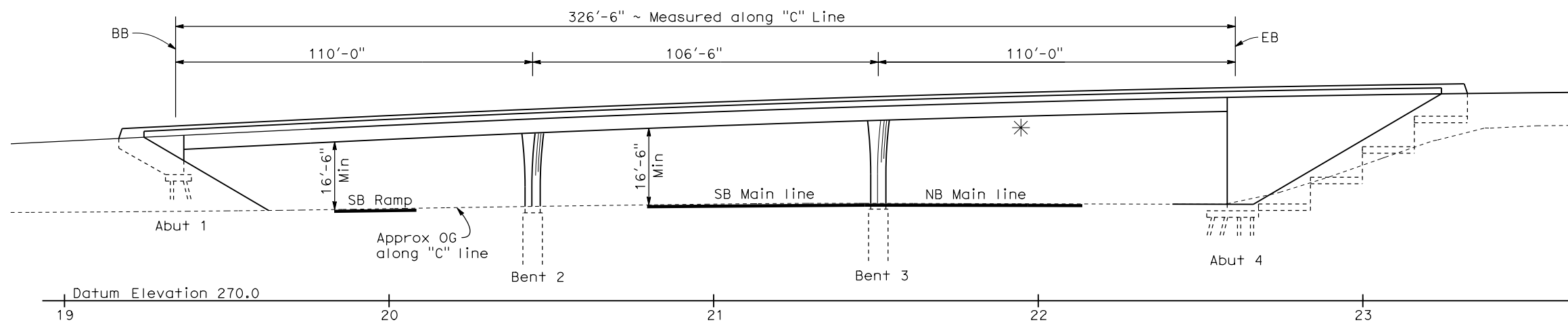
CH2MHILL



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

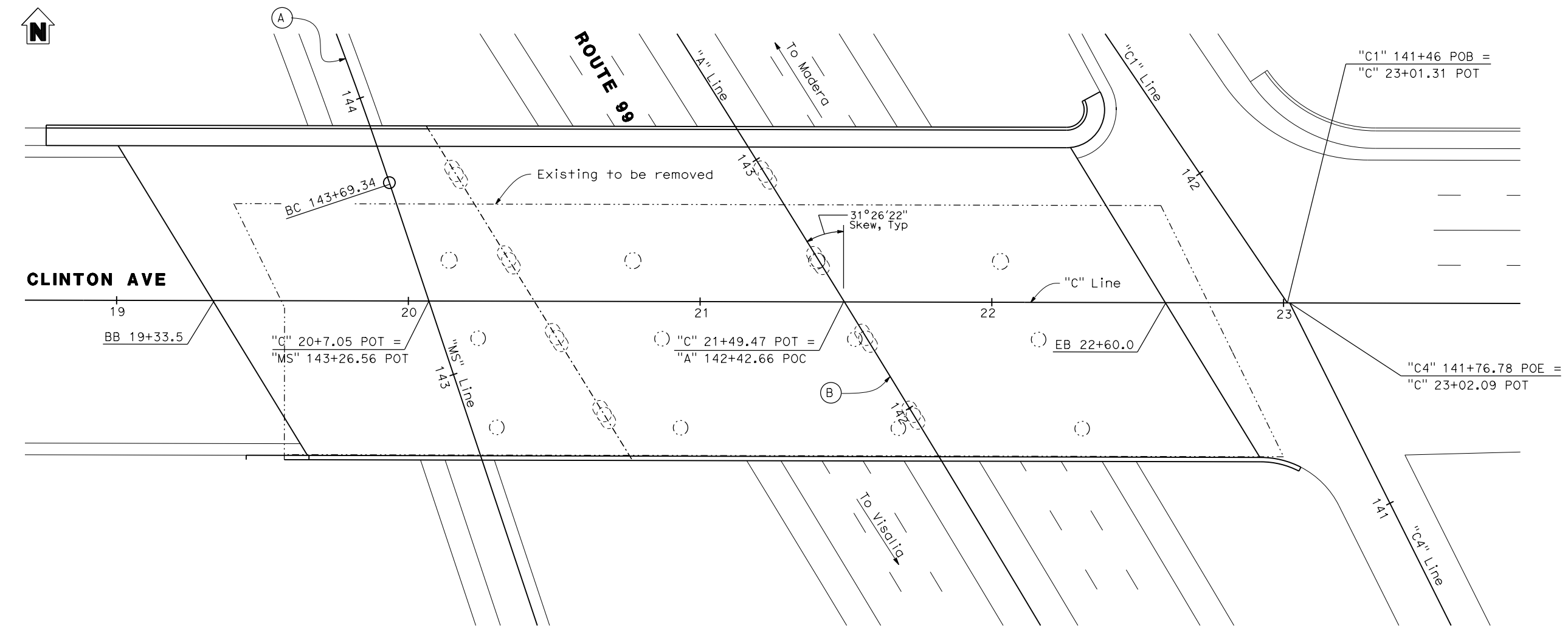


DATE OF ESTIMATE	=	10-21-2010
BRIDGE REMOVAL	=	\$ 600,000
STRUCTURE DEPTH	=	4'-6"
LENGTH	=	326'-6"
WIDTH	=	114'-6"
AREA	=	37,385 ft ²
COST/ft ² INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 175/ft ²
TOTAL COST	=	\$ 6,543,000

Datum Elevation 270.0
19 20 21 22 23

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

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Sacramento, CA 95811

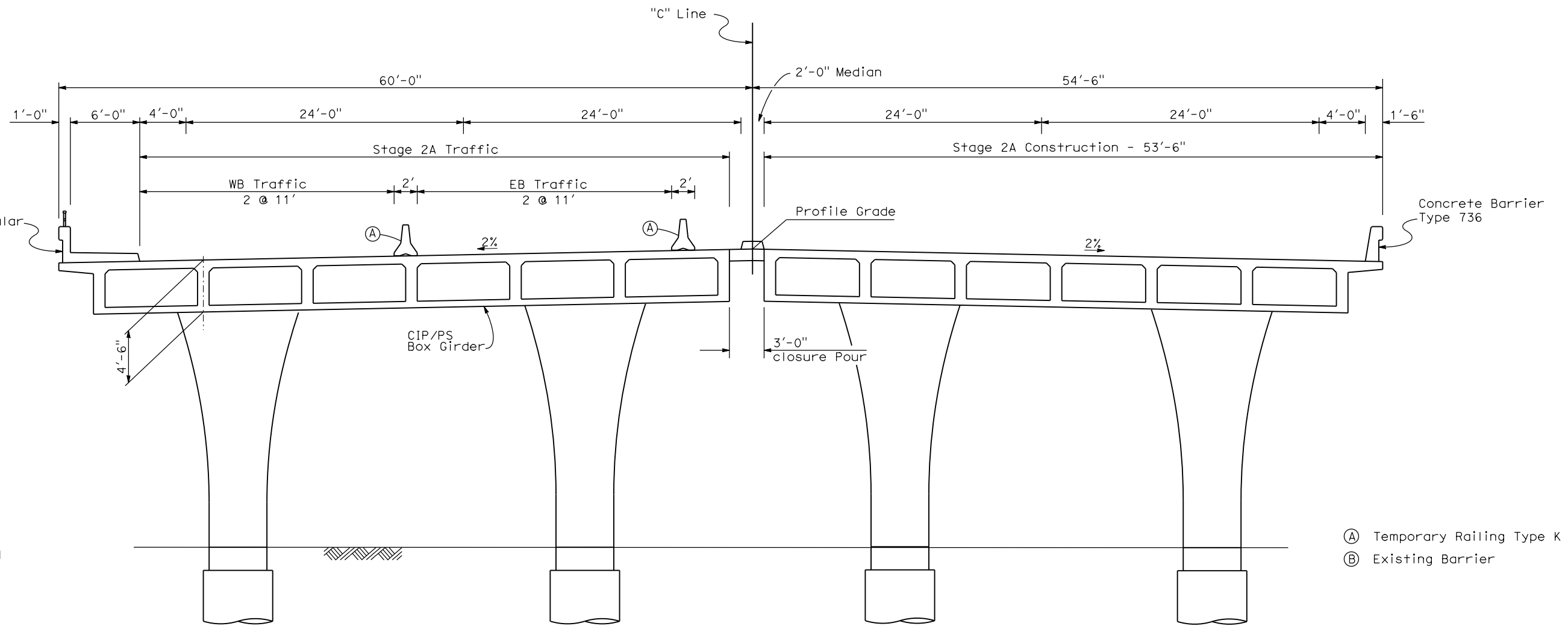
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY

CONTRACT NO.	HSR006-007
DRAWING NO.	BR-1
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 23-APR-2011



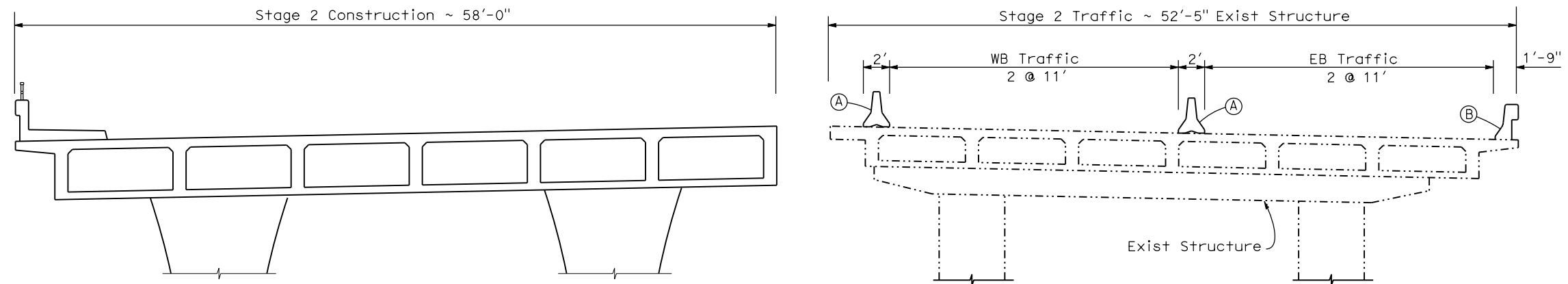
TYPICAL SECTION
1"=5'

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.

- Ⓐ Temporary Railing Type K
- Ⓑ 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**

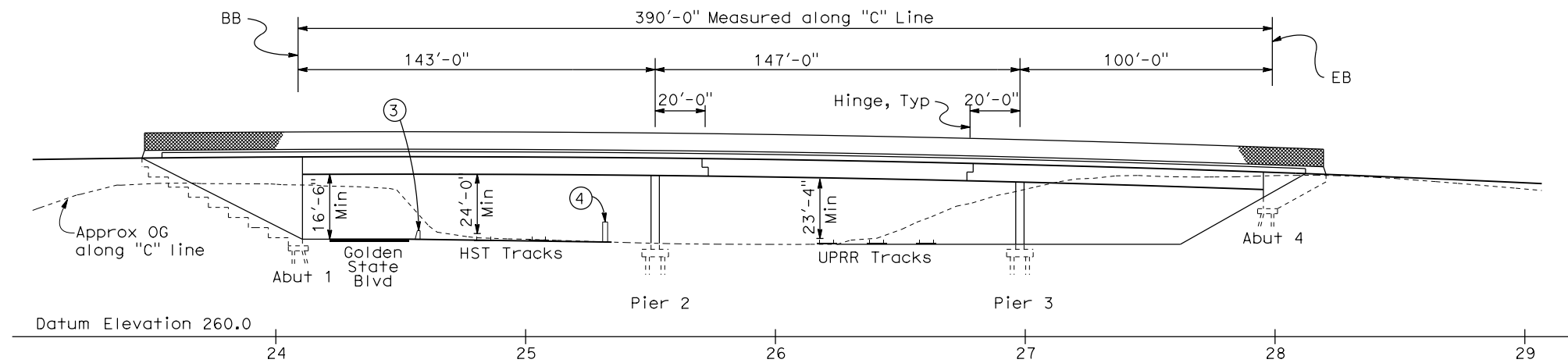
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY**

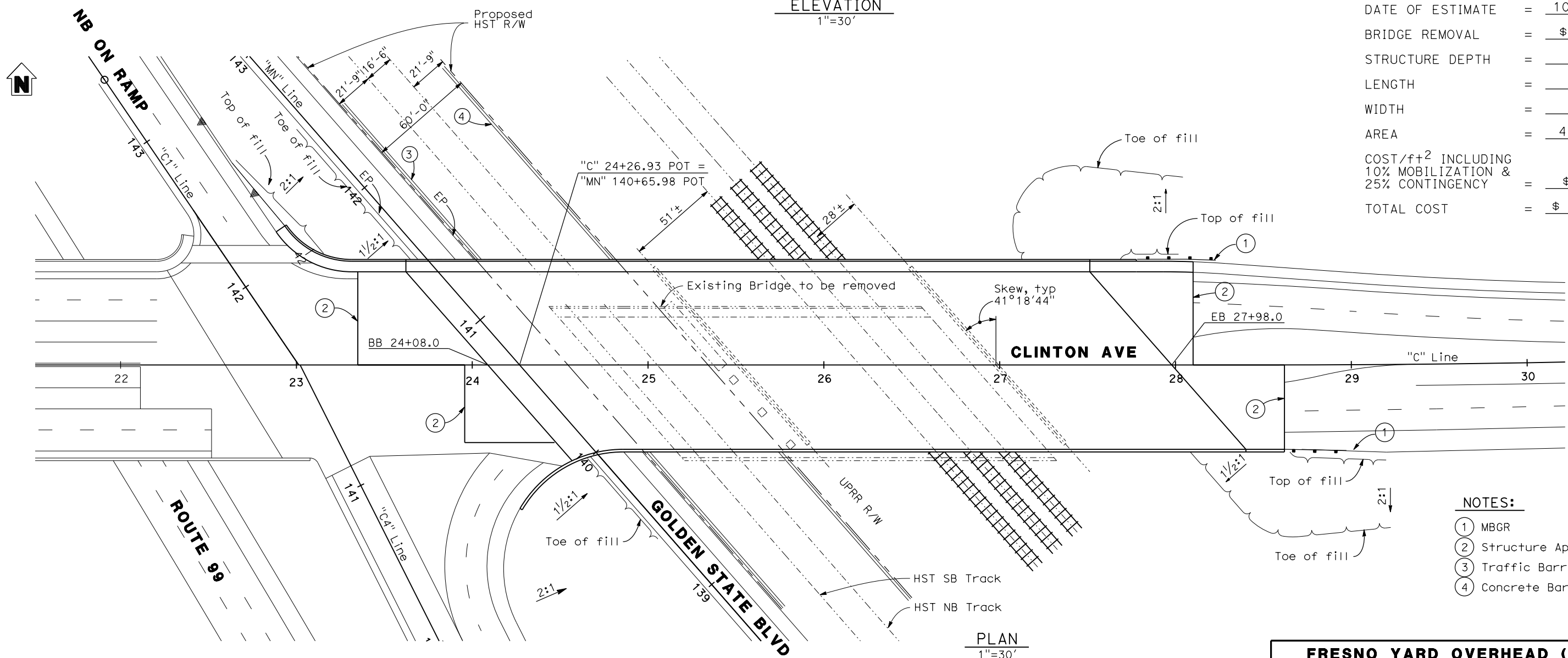
CONTRACT NO.
HSR006-007
 DRAWING NO.
BR-2
 SCALE
AS SHOWN
 SHEET NO.

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**

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2020 L Street, Suite 300
Sacramento, CA 95811

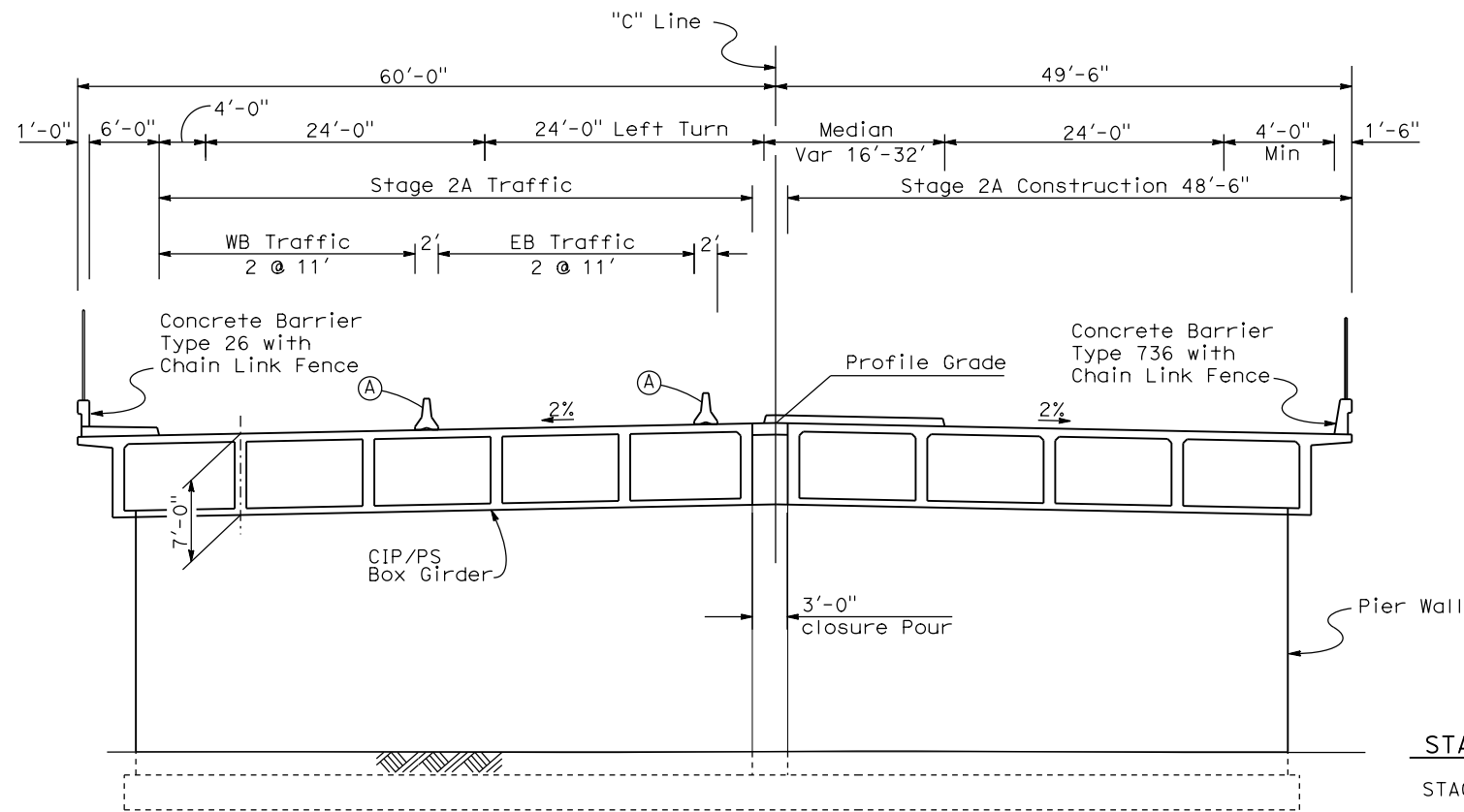
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY**

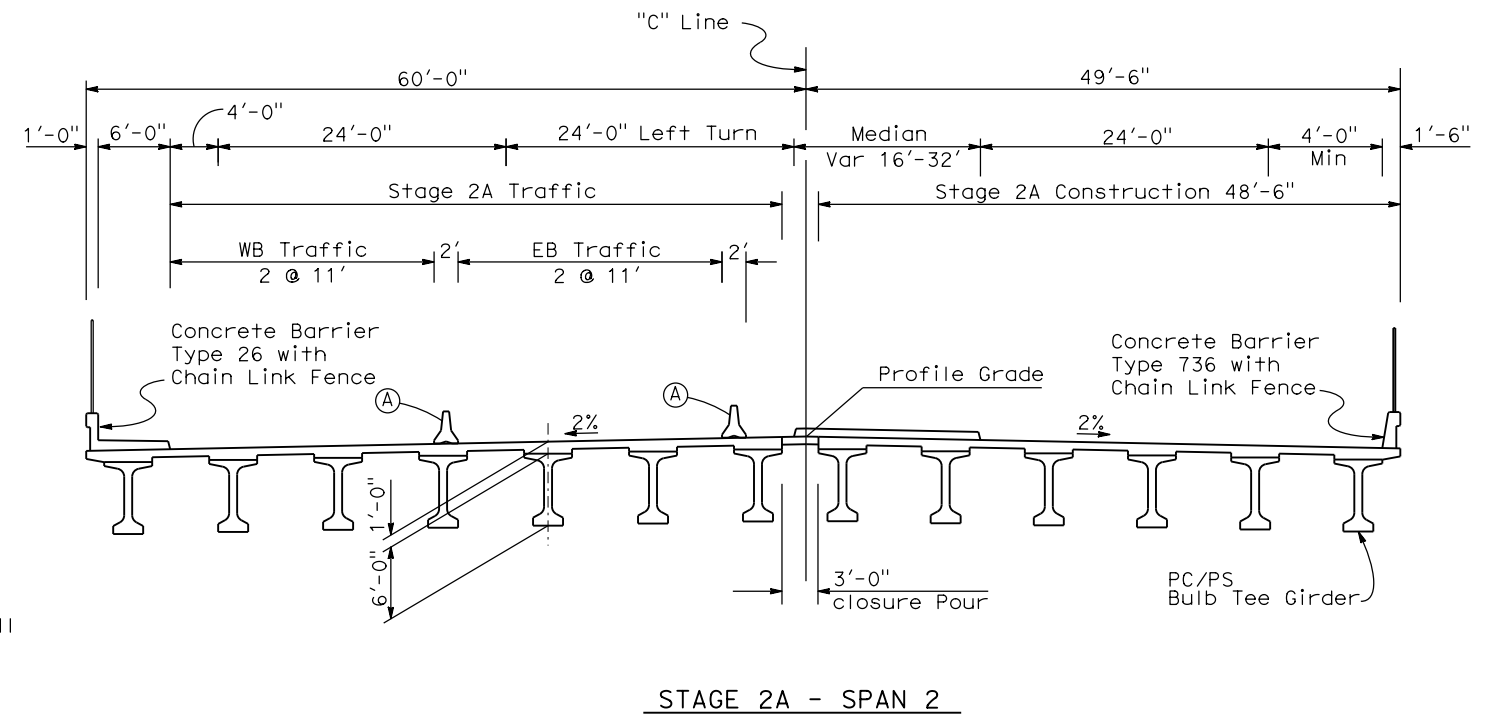
CONTRACT NO.	HSR006-007
DRAWING NO.	BR-3
SCALE	AS SHOWN
SHEET NO.	

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.

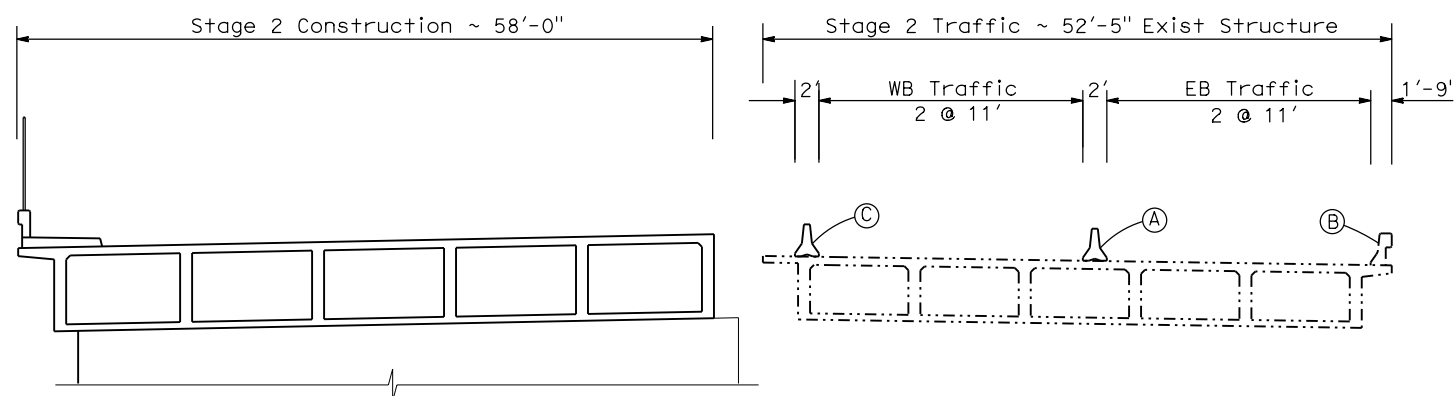
STAGE 2A:

Shift Clinton Ave EB & WB traffic to newly constructed Fresno Yard OH.

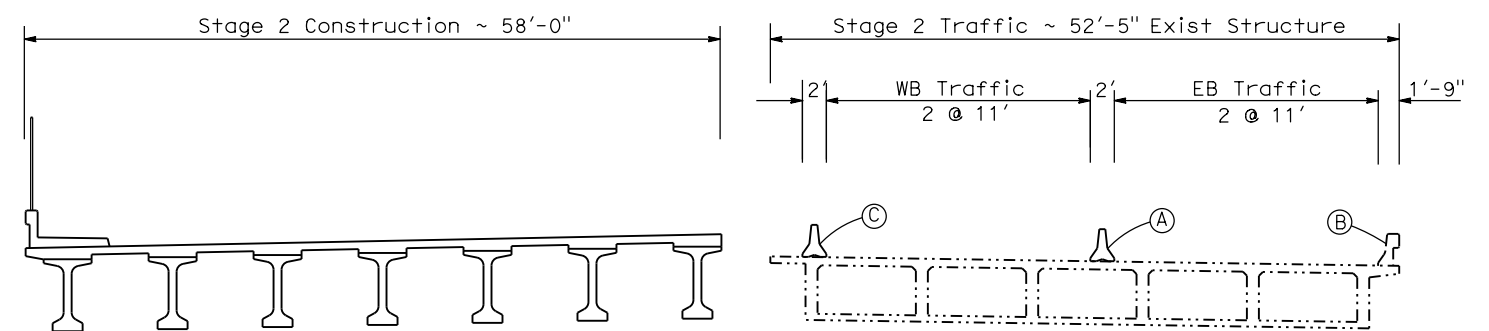
Remove remaining portion of Fresno Yard OH.

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**

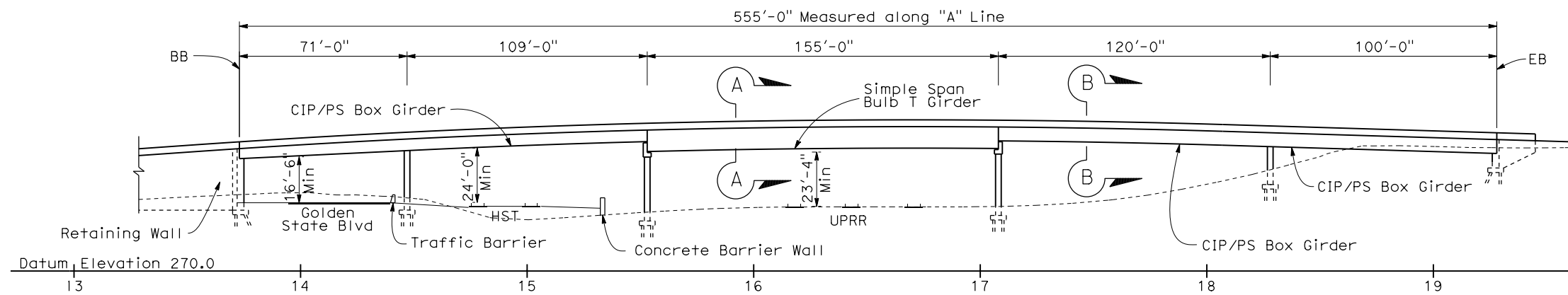
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH SPEED TRAIN PROJECT
MERCED TO FRESNO
ROUTE 99 RE-ALIGNMENT
ADVANCE PLANNING STUDY**

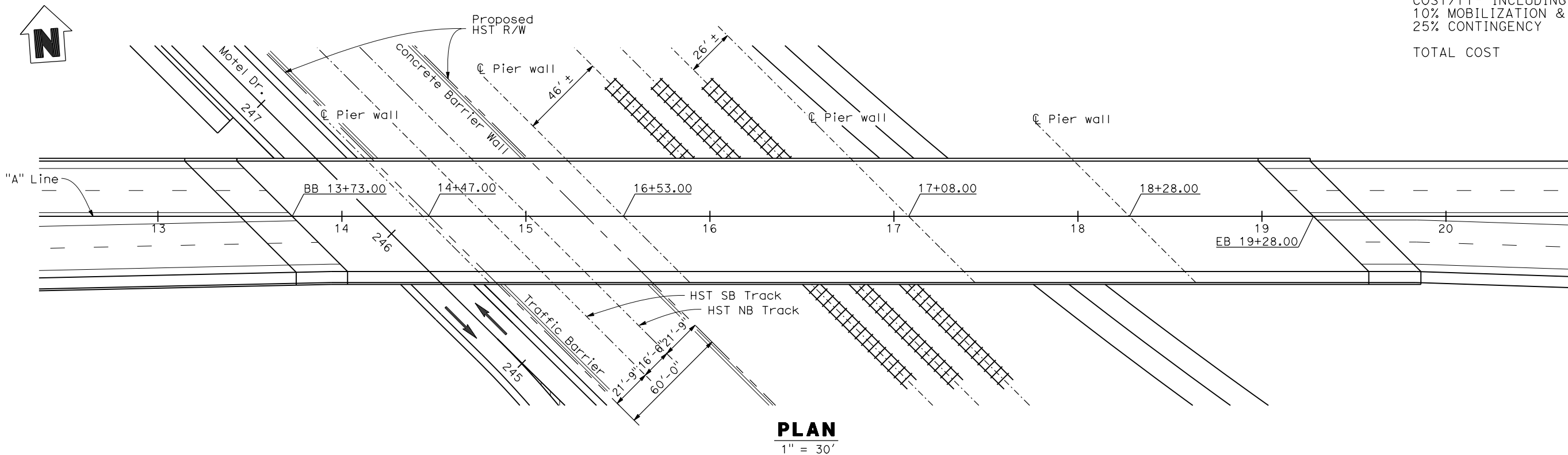
CONTRACT NO.
HSR006-007
DRAWING NO.
BR-4
SCALE
AS SHOWN
SHEET NO.

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

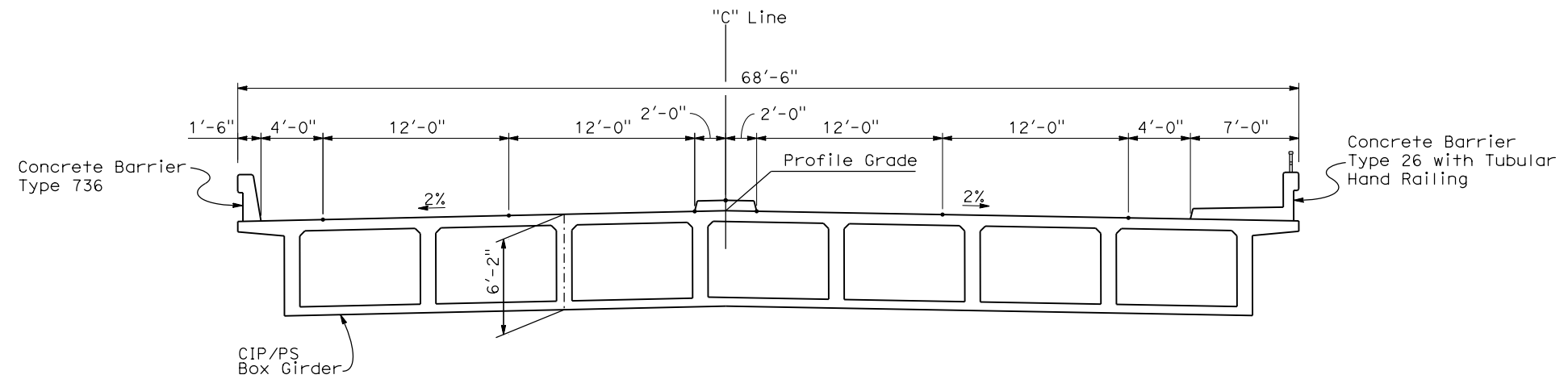
MERCED TO FRESNO

ROUTE 99 RE-ALIGNMENT

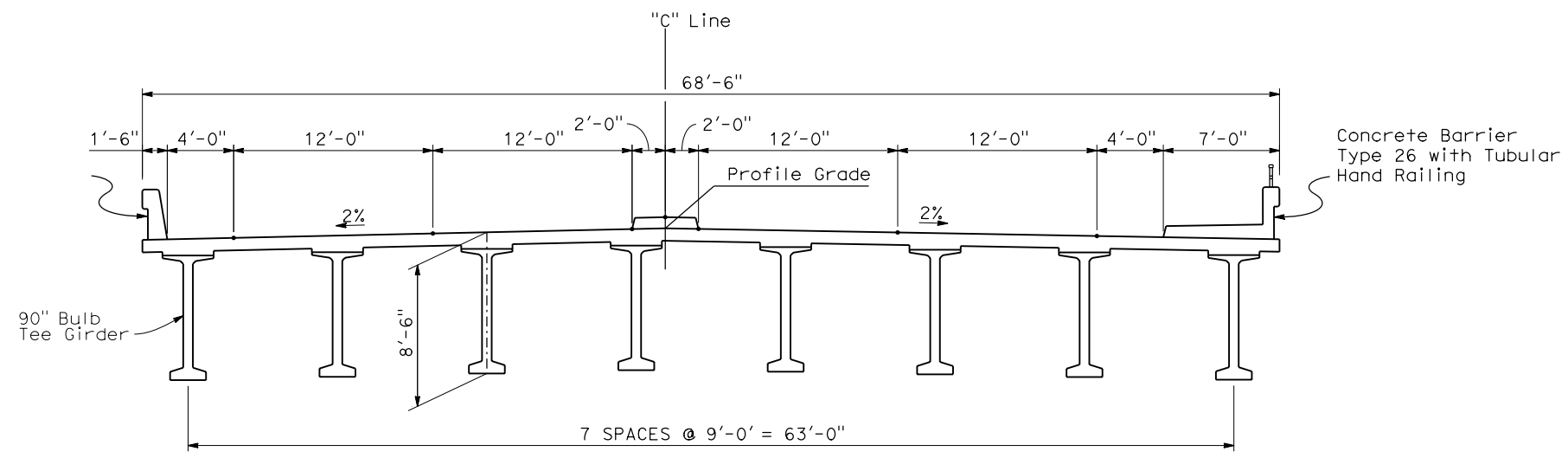
ADVANCE PLANNING STUDY

CONTRACT NO.	HSR006-007
DRAWING NO.	BR-5
SCALE	AS SHOWN
SHEET NO.	

DATE PLOTTED: 03-28-2011 10:00 AM



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 21 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 1
		B0111-A	BNSF - AVE 21 WYE	GENERAL	ABBREVIATIONS, SYMBOLS & NOTES	SHEET 1 OF 1
		B0115-A	BNSF - AVE 21 WYE		INDEX MAP	SHEET 1 OF 4
		B0116-A	BNSF - AVE 21 WYE		INDEX MAP	SHEET 2 OF 4
		B0119-A	BNSF - AVE 21 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 3 OF 4
		B0120-A	BNSF - AVE 21 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 4 OF 4
		CT0121-A	BNSF - AVE 21 WYE	TYPICAL CROSS SECTIONS	LOCAL ROAD	SHEET 1 OF 1
A1 - AVE 21 WYE (LAYOUT)						
46		CR4000-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - ROAD 30 1/2	LAYOUT	SHEET 1 OF 1
47		CR4001-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - ROAD 29	LAYOUT	SHEET 1 OF 1
48		CR4002-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
49		CR4003-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - SHARON ST	LAYOUT	SHEET 1 OF 1
50		CR4004-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - AVENUE 26	LAYOUT	SHEET 1 OF 1
51		CR4005-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - AVENUE 26	LAYOUT	SHEET 1 OF 1
52		CR4006-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - SANTA FE DR	LAYOUT	SHEET 1 OF 1
53		CR4007-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 1 OF 3
53		CR4008-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 2 OF 3
53		CR4009-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 3 OF 3
55		CR4010-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - BURCHELL AVE	LAYOUT	SHEET 1 OF 1
56		CR4011-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - ROAD 24	LAYOUT	SHEET 1 OF 1
57		CR4012-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - HANOVER RD	LAYOUT	SHEET 1 OF 1
58		CR4013-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
59		CR4014-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
60		CR4015-A	BNSF MAIN LINE - AVE 21 WYE	LOCAL ROAD - ROAD 22	LAYOUT	SHEET 1 OF 1
66		CR4016-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 1 OF 2
66		CR4017-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 2 OF 2
66		CR4016R-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 1 OF 2
66		CR4017R-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 2 OF 2
67		CR4018-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - ROAD 33	LAYOUT	SHEET 1 OF 1
A1 - AVE 21 WYE - ALT 01 (LAYOUT)						
83		CR4200-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - WHITE ROCK RD	LAYOUT	SHEET 1 OF 2
83		CR4201-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - WHITE ROCK RD	LAYOUT	SHEET 2 OF 2
84		CR4202-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - BURCHELL AVE	LAYOUT	SHEET 1 OF 1
A1 - AVE 21 WYE - ALT 02 (LAYOUT)						
85		CR4255-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - FRESNO ROAD	LAYOUT	SHEET 1 OF 1
A1 - AVE 21 WYE - ALT 03 (LAYOUT)						
86		CR4300-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 1 OF 2
86		CR4301-A	BNSF MERCED CONNECTION - AVE 21 WYE	LOCAL ROAD - 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 21
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, DESIGNSPEED 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

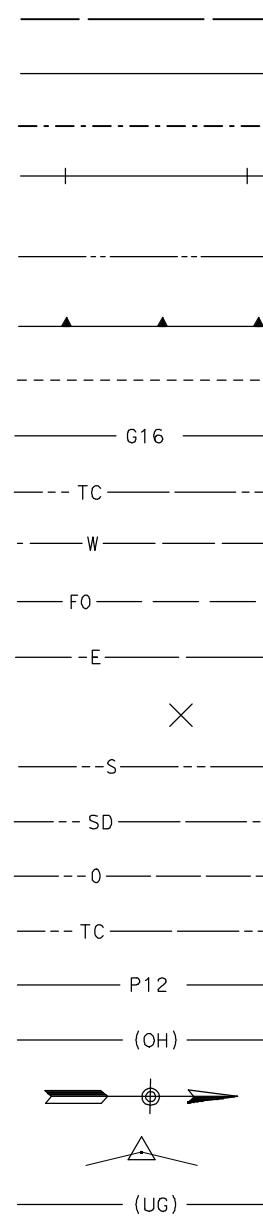
MISCELLANEOUS

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

 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
 UNDER. GIBSONROUND LINE

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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
07/20/2011

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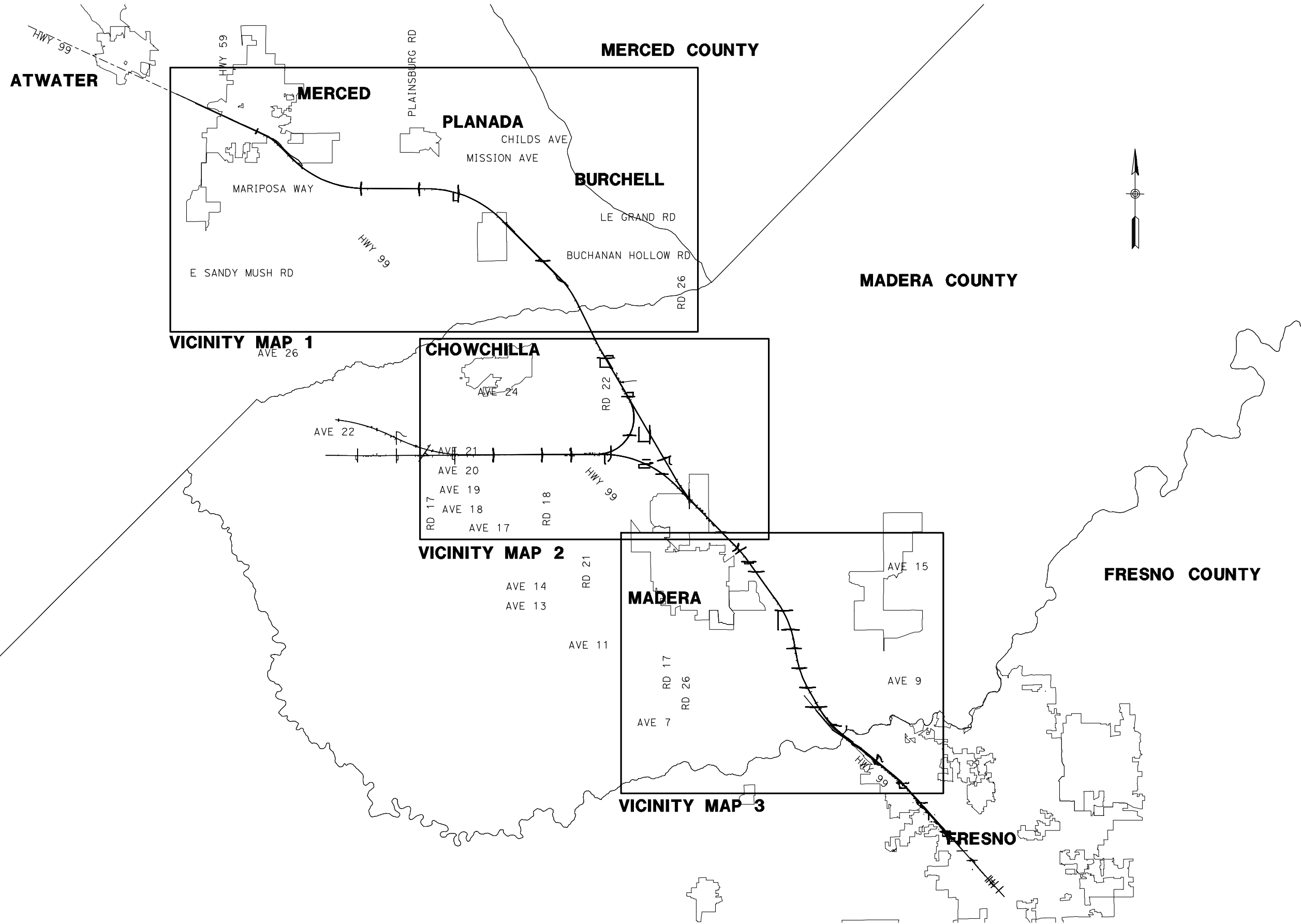
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 21 WYE
 GENERAL
 A. BOONEBREVIACTIONS, SYMBOLS & NOTES
 SHEET 1 OF 1

CONTRACT NO.
HSR06-007
 DRAWING NO.
B0111-A
 SCALE
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 SHEET NO.
OF

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
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 21 WYE

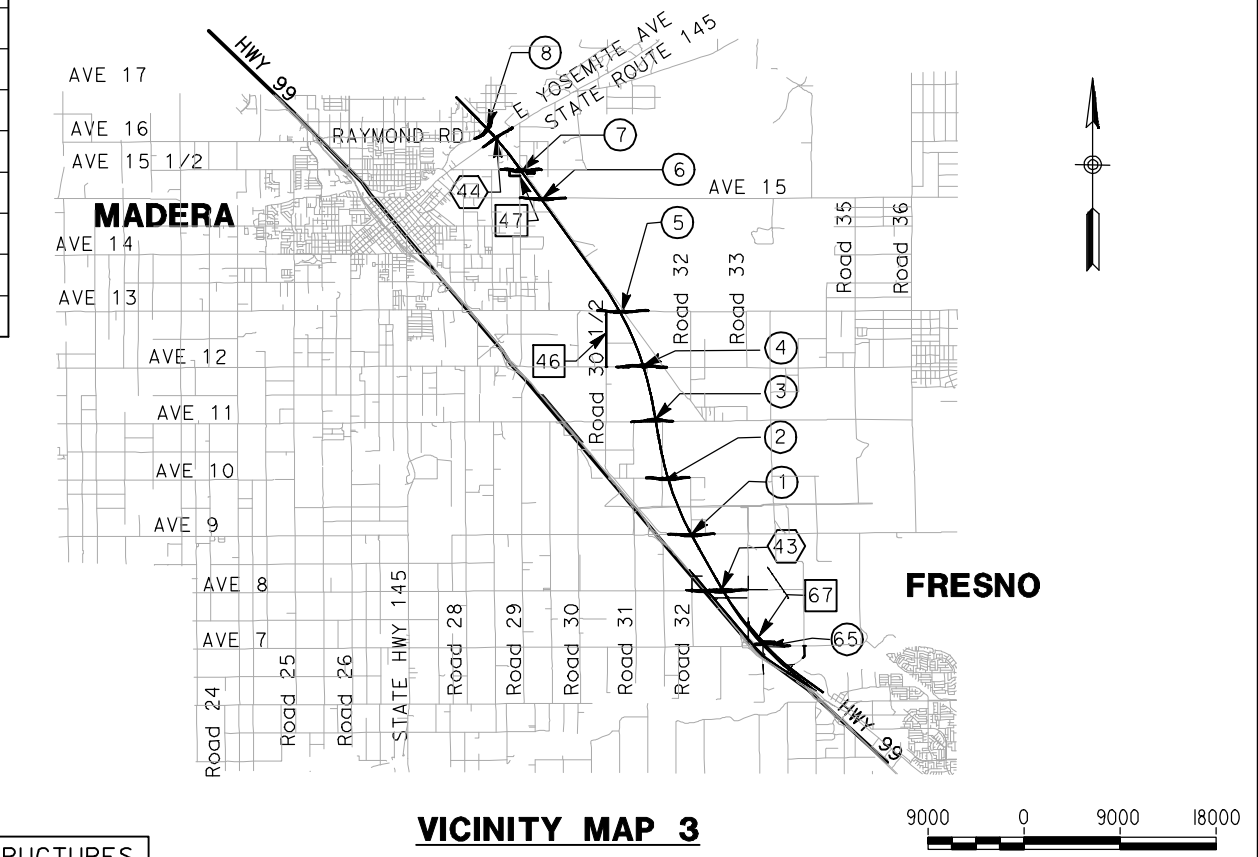
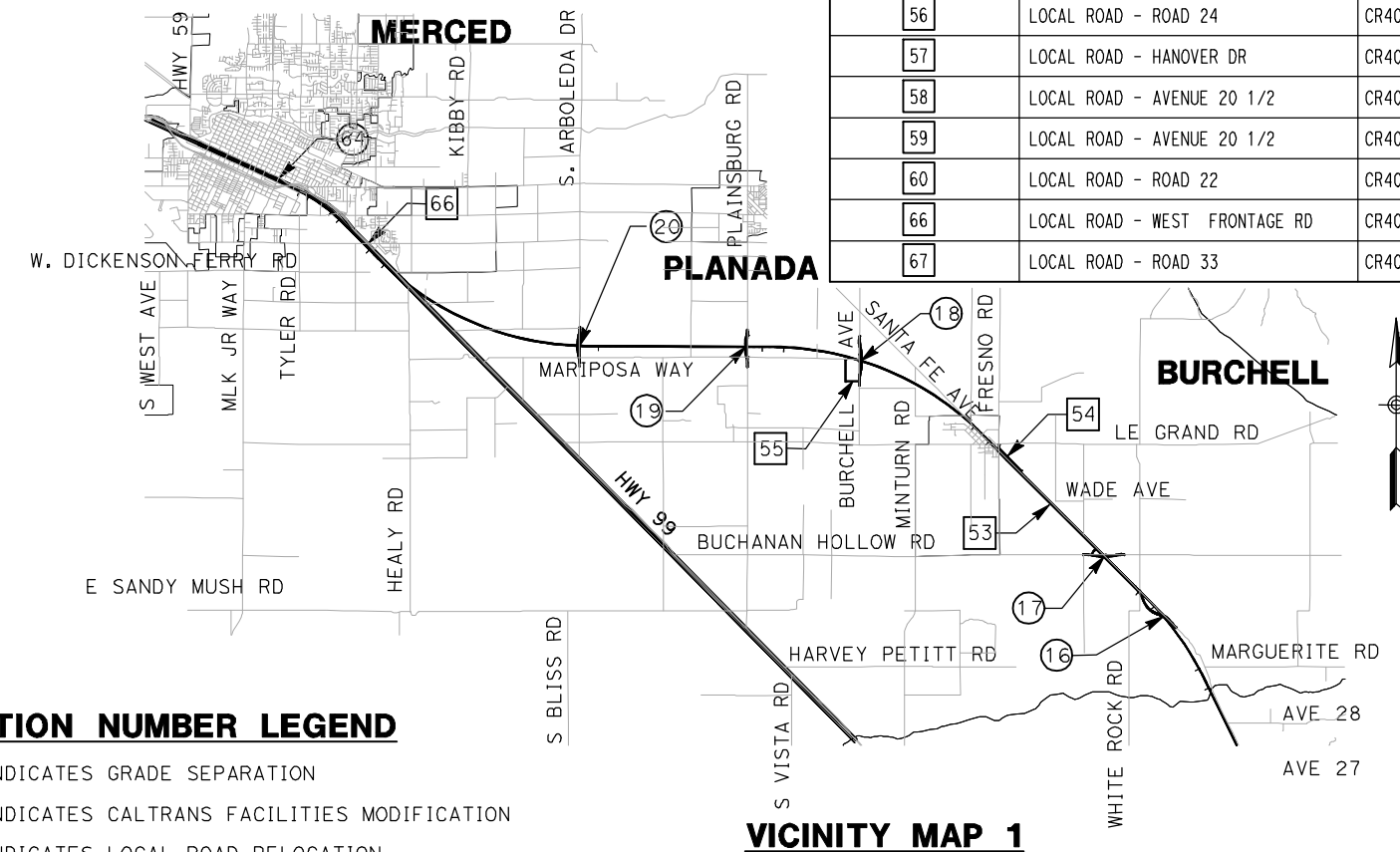
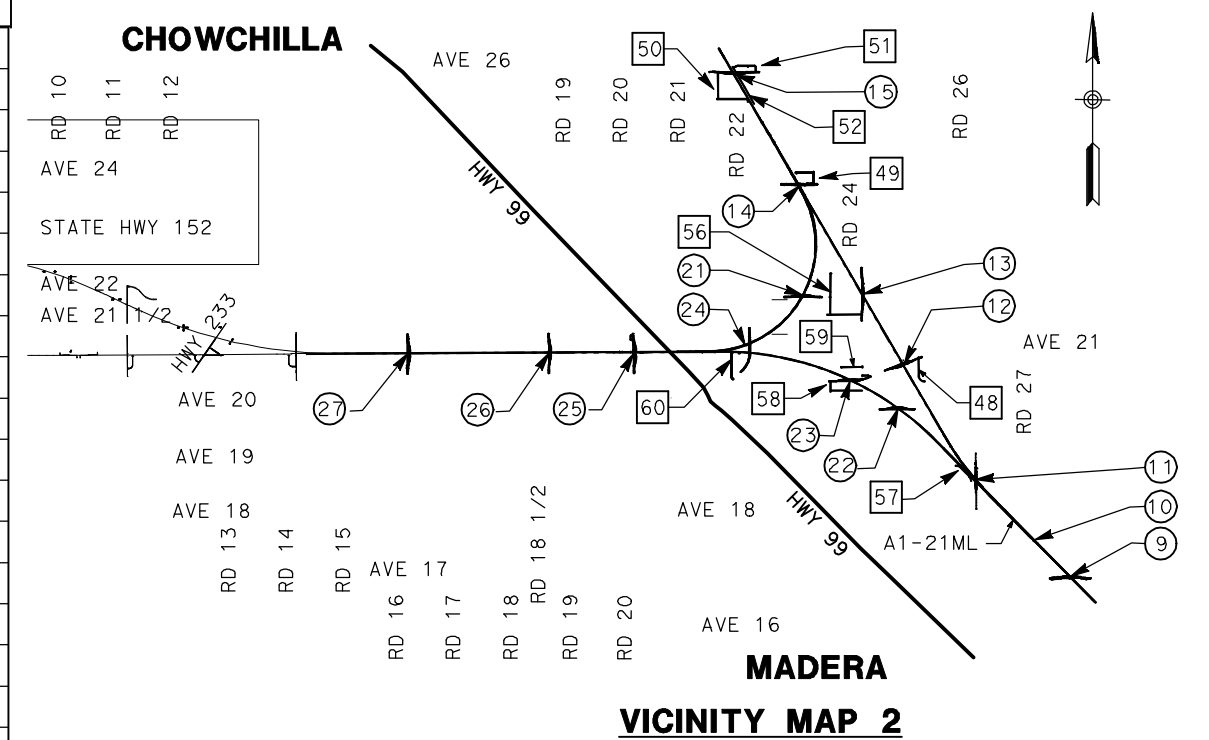
INDEX MAP
SHEET 1 OF 4

CONTRACT NO.
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DRAWING NO.
B0115-A
SCALE
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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
14	UNDERPASS - AVENUE 24	CT0041-A - CT0043-A	ST1014
15	GRADE SEPARATION - AVENUE 26	CT0044-A - CT0047-A	ST1015
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
21	GRADE SEPARATION - AVENUE 22	CT0063-A - CT0065-A	ST1021

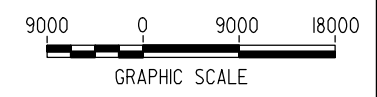
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22	GRADE SEPARATION - AVENUE 20	CT0066-A - CT0068-A	ST1022
23	GRADE SEPARATION - AVENUE 20 1/2	CT0069-A - CT0071-A	ST1023
24	UNDERPASS - ROAD 22	CT0073-A - CT0075-A	
25	GRADE SEPARATION - ROAD 20	CT0076-A - CT0078-A	ST1026
26	GRADE SEPARATION - ROAD 18 1/2	CT0079-A - CT0081-A	ST1027
27	GRADE SEPARATION - ROAD 16	CT0082-A - CT0084-A	ST1028
64	GRADE SEPARATION - G STREET	CT0149	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	
47	LOCAL ROAD - ROAD 29	CR4001-A	
48	LOCAL ROAD - AVENUE 20 1/2	CR4002-A	
49	LOCAL ROAD - SHARON	CR4003-A	
50	LOCAL ROAD - AVENUE 26	CR4004-A	
51	LOCAL ROAD - AVENUE 26	CR4005-A	
52	LOCAL ROAD - SANTA FE AVE	CR4006-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	
56	LOCAL ROAD - ROAD 24	CR4011-A	
57	LOCAL ROAD - HANOVER DR	CR4012-A	
58	LOCAL ROAD - AVENUE 20 1/2	CR4013-A	
59	LOCAL ROAD - AVENUE 20 1/2	CR4014-A	
60	LOCAL ROAD - ROAD 22	CR4015-A	
66	LOCAL ROAD - WEST FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-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
A. SILVER
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

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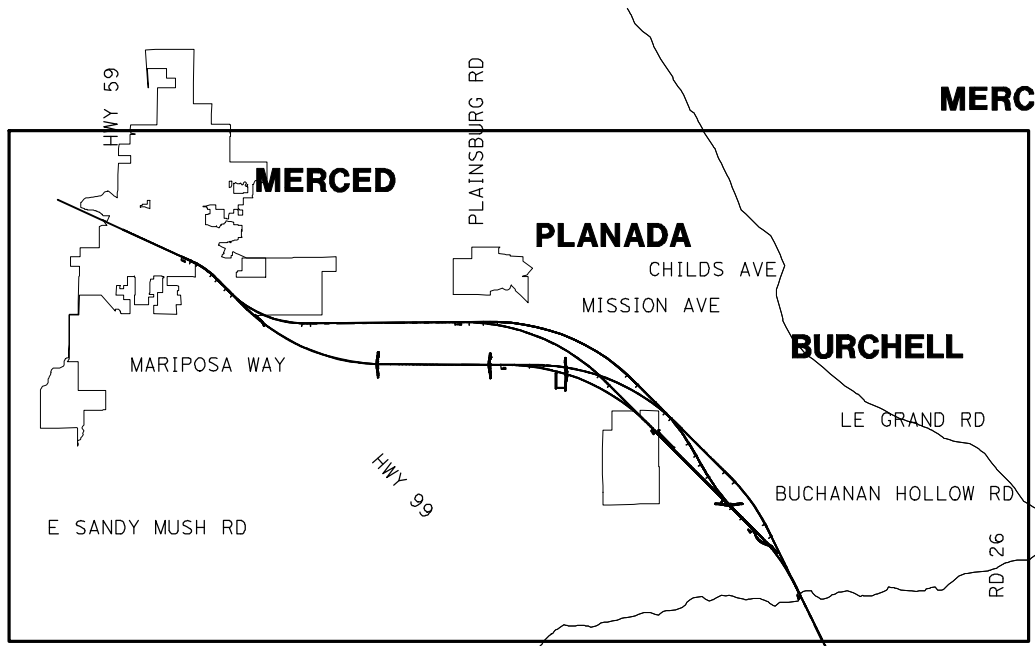
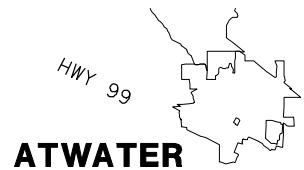


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF - AVE 21 WYE

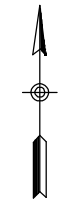
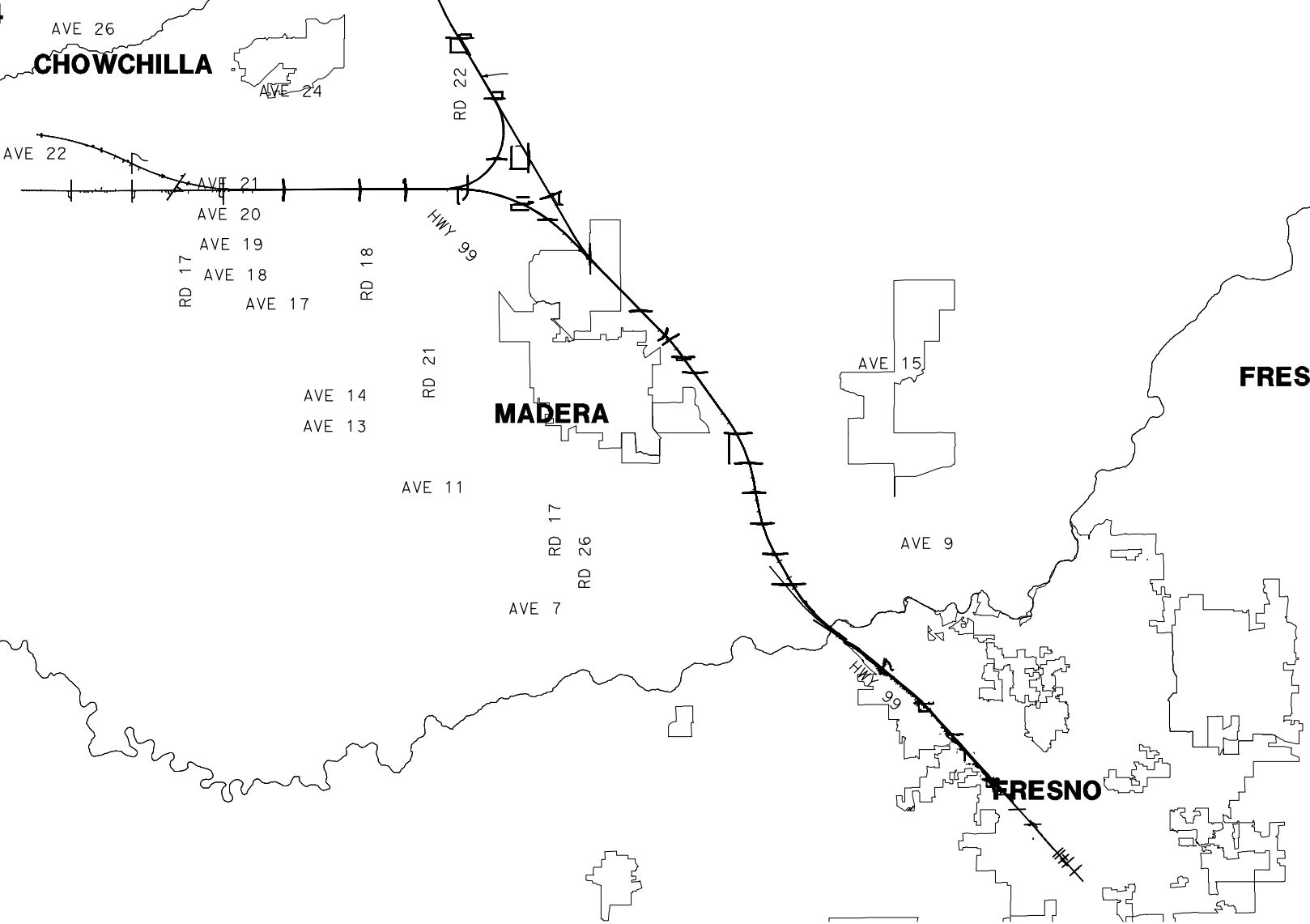
INDEX MAP
SHEET 2 OF 4

CONTRACT NO.
HSR06-007
DRAWING NO.
B0116-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

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

RECORD SET
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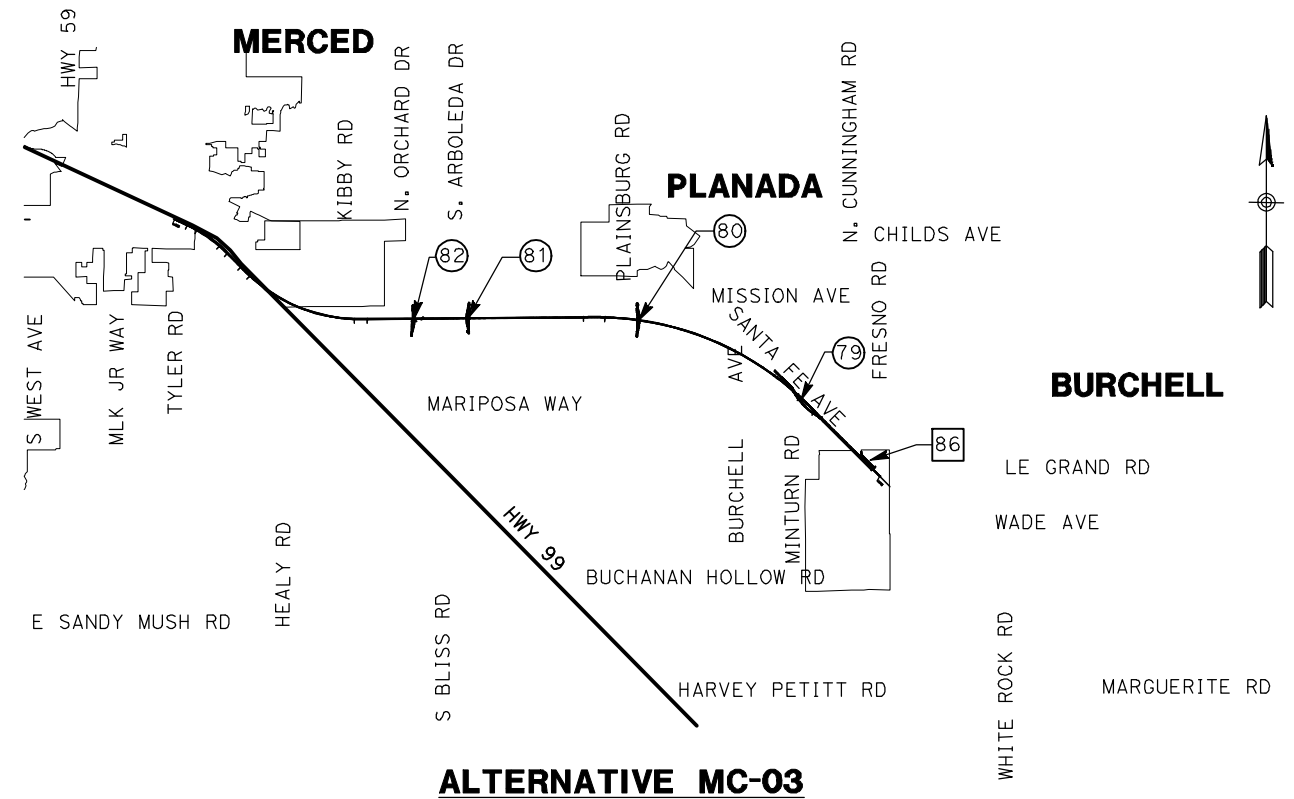
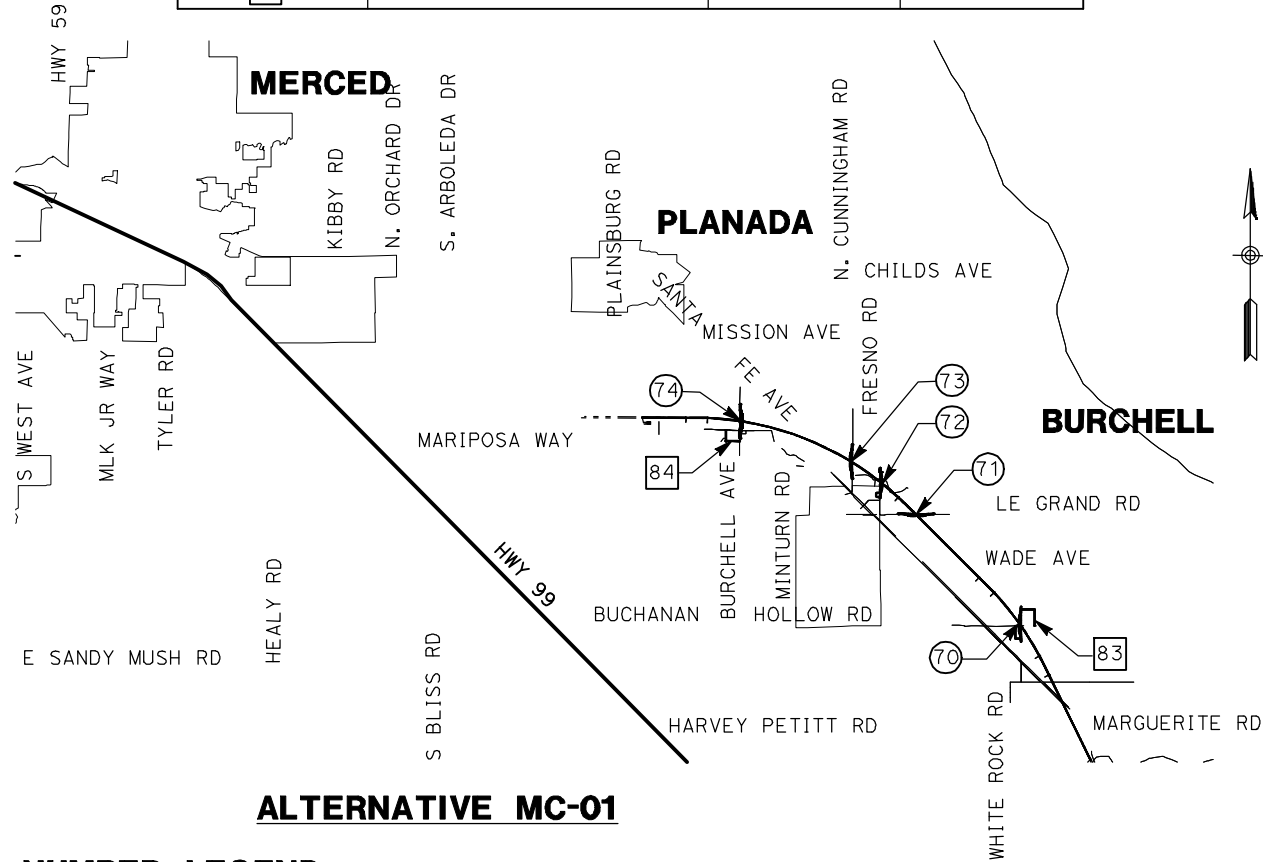
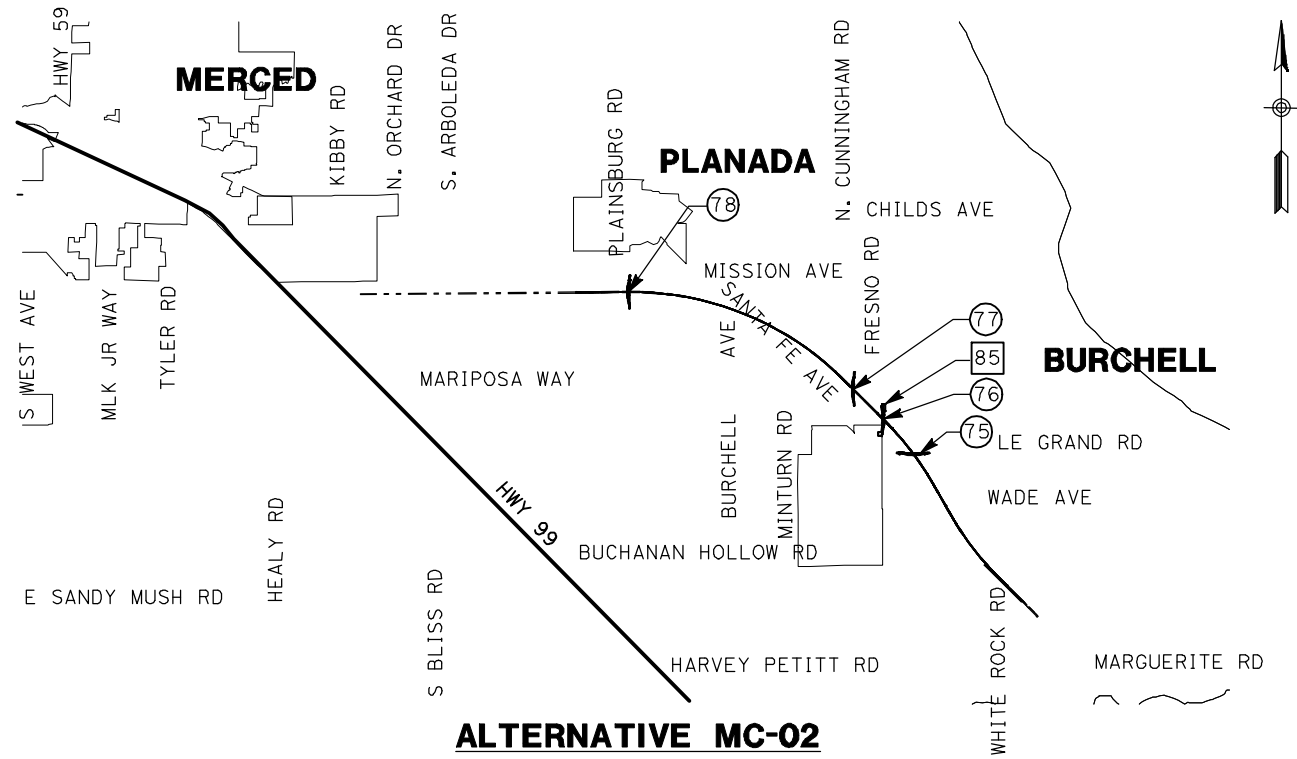


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF - AVE 21 WYE
 MC - ALTERNATIVES NO. 1, NO. 2, & NO. 3

INDEX MAP
 SHEET 3 OF 4

CONTRACT NO.
HSR06-007
 DRAWING NO.
B0119-A
 SCALE
NO SCALE
 SHEET NO.
OF

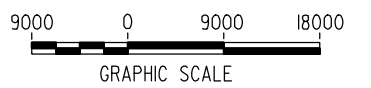
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
70	GRADE SEPARATION - WHITE ROCK RD	CT0200-A - CT0202-A	ST1050
71	GRADE SEPARATION - LE GRAND RD	CT0203-A - CT0205-A	ST1051
72	GRADE SEPARATION - S. FRESNO RD	CT0206-A - CT0208-A	ST1052
73	GRADE SEPARATION - S. CUNNINGHAM RD	CT0209-A - CT0211-A	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 RD	CR4200-A - CR4201-A	
84	LOCAL ROAD - BURCHELL AVE	CR4202-A	
85	LOCAL ROAD - FRESNO RD	CR4255-A	
86	LOCAL ROAD - SANTA FE AVE	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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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. GIBSON
DRAWN BY
T. WALTZ
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 21 WYE
MC - ALTERNATIVES NO. 1, NO. 2, & NO. 3

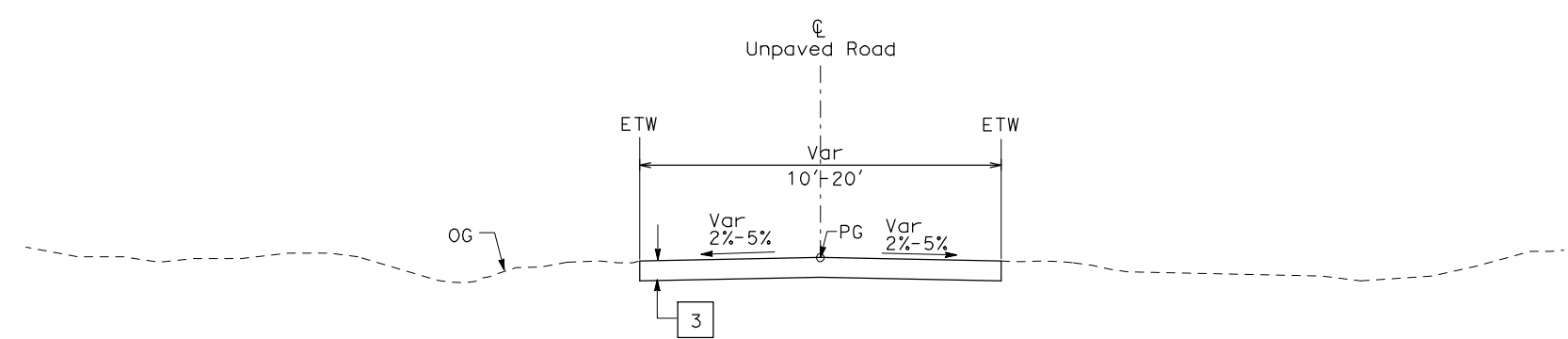
INDEX MAP
SHEET 4 OF 4

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DRAWING NO.	B0120-A
SCALE	NO SCALE
SHEET NO.	### OF ###

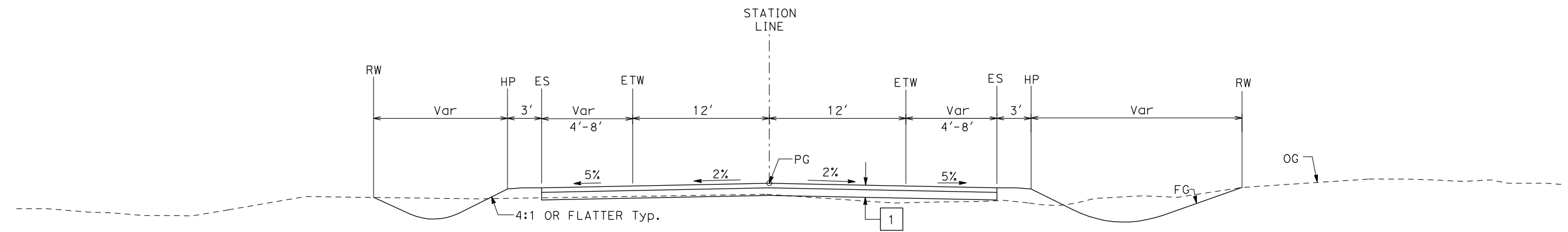
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STRUCTURAL SECTIONS:

- 1 [HMA TYPE A
AB CLASS 2
- 2 [CAST IN PLACE / PRESTRESSED
BOX GIRDER (6' STRUCTURE DEPTH)
- 3 [AB CLASS 2



UNPAVED ROAD
SEE LAYOUT SHEETS
FOR ACTUAL WIDTHS



2-LANE FRONTAGE ROAD
SEE LAYOUT SHEETS
FOR ACTUAL SHOULDER WIDTHS

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
SUBMITTAL

NOT FOR
CONSTRUCTION

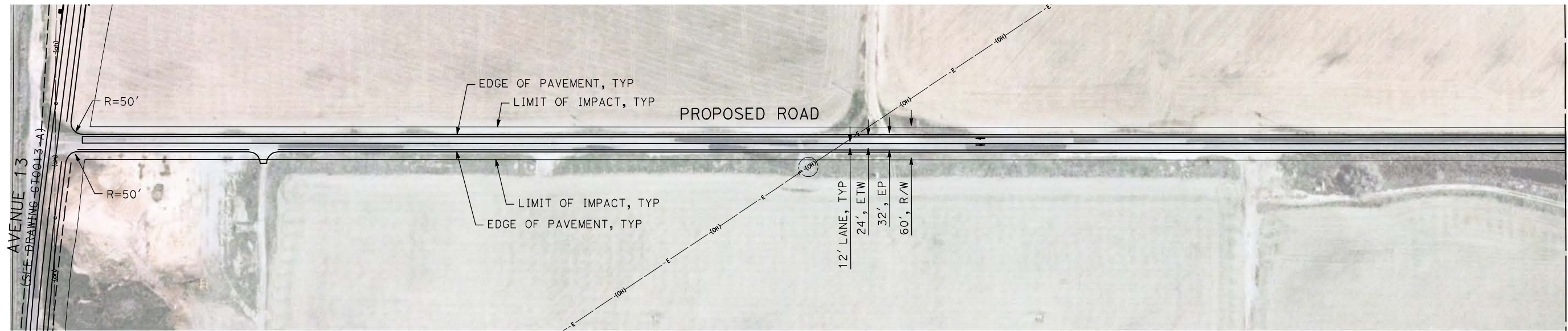


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

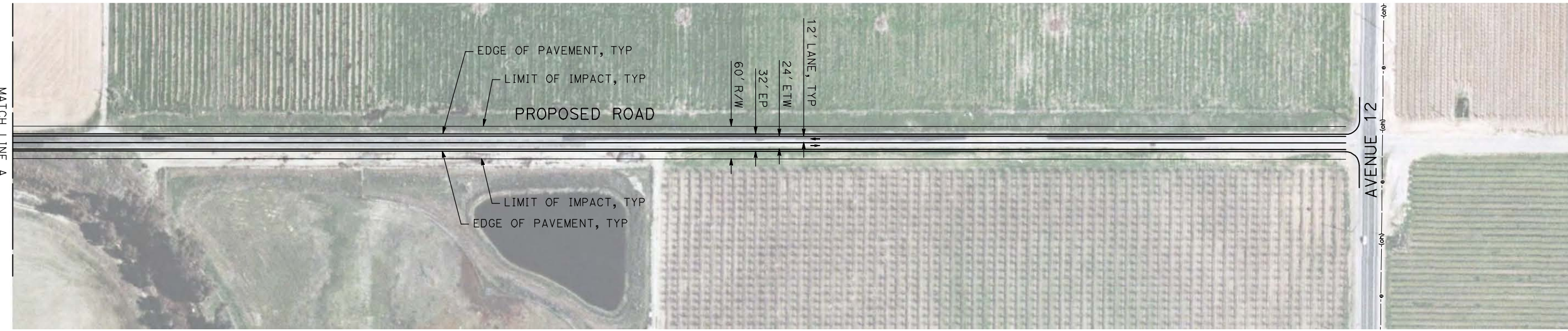
BNSF - AVE 21 WYE
TYPICAL CROSS SECTIONS
LOCAL ROAD
SHEET 1 OF 1

CONTRACT NO.
HSR06-007
DRAWING NO.
CT0121-A
SCALE
NONE
SHEET NO.
OF ###

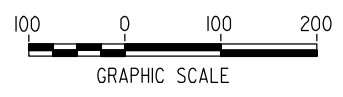
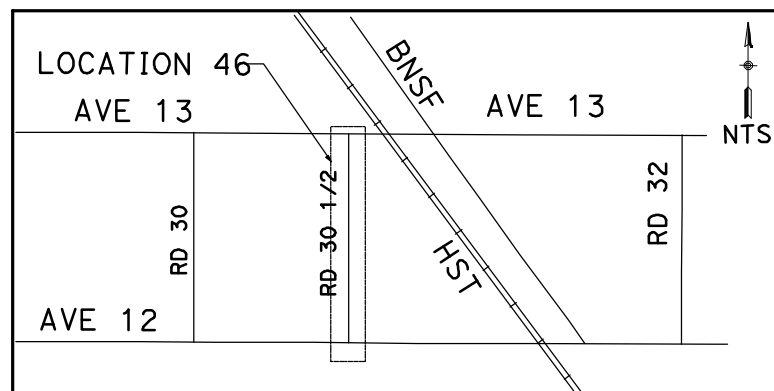
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MATCH LINE A
SEE BOTTOM LEFT



MATCH LINE A
SEE TOP 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

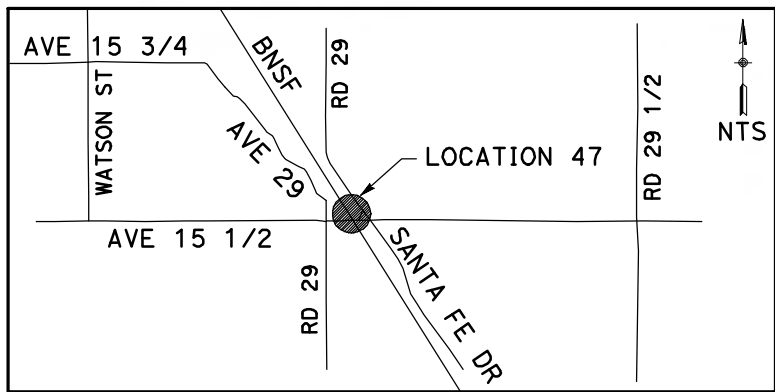
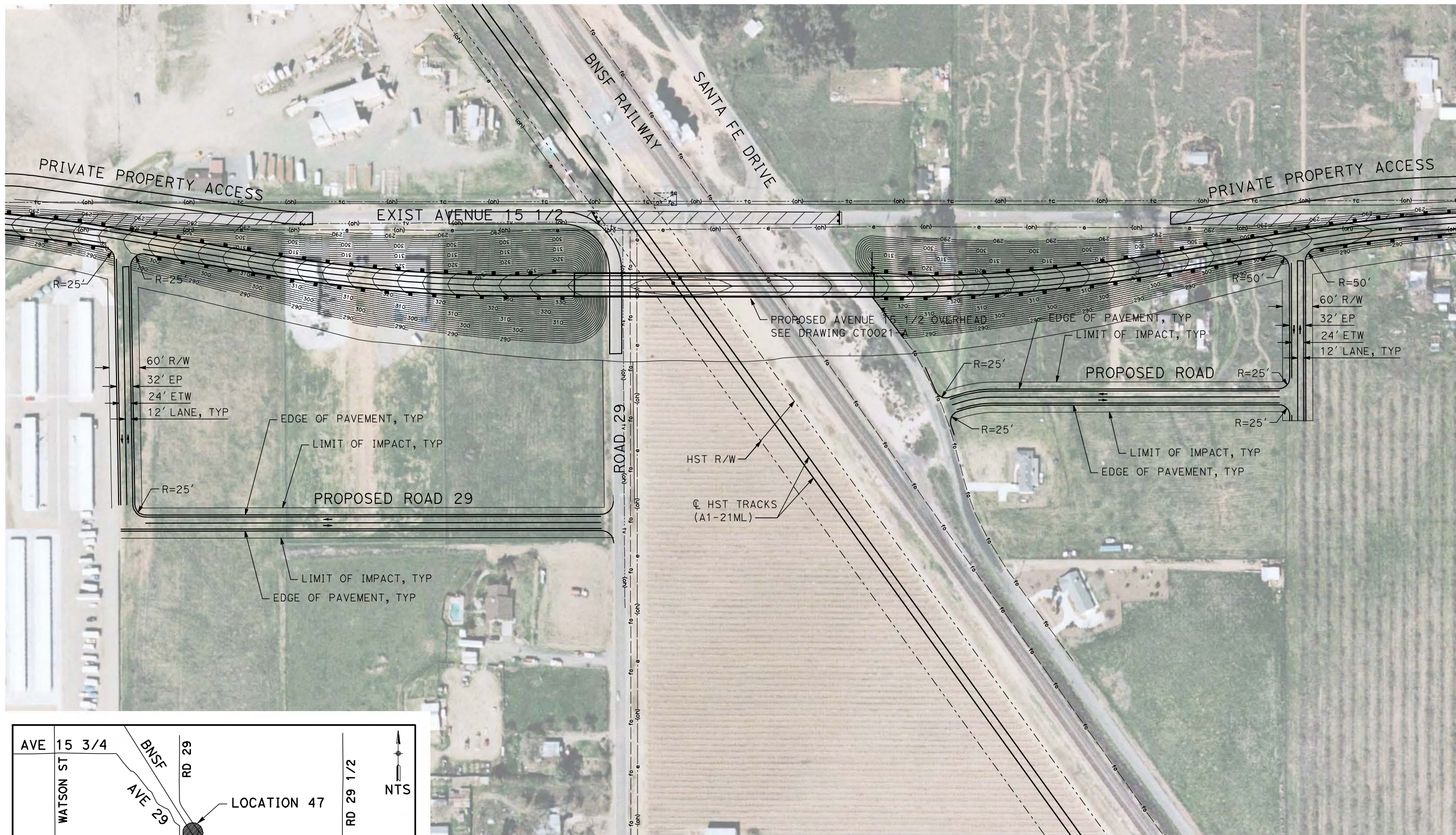
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - ROAD 30 1/2
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4000-A
SCALE
AS SHOWN
SHEET NO.
OF

5/1/2011 12:55:28 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\1-ave21\Volume_3A - Ave 21 Wye Local Roads\Layout\WF-CR-4001-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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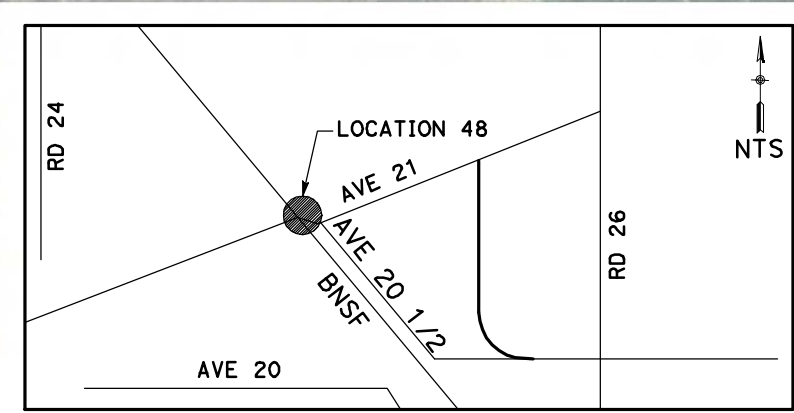
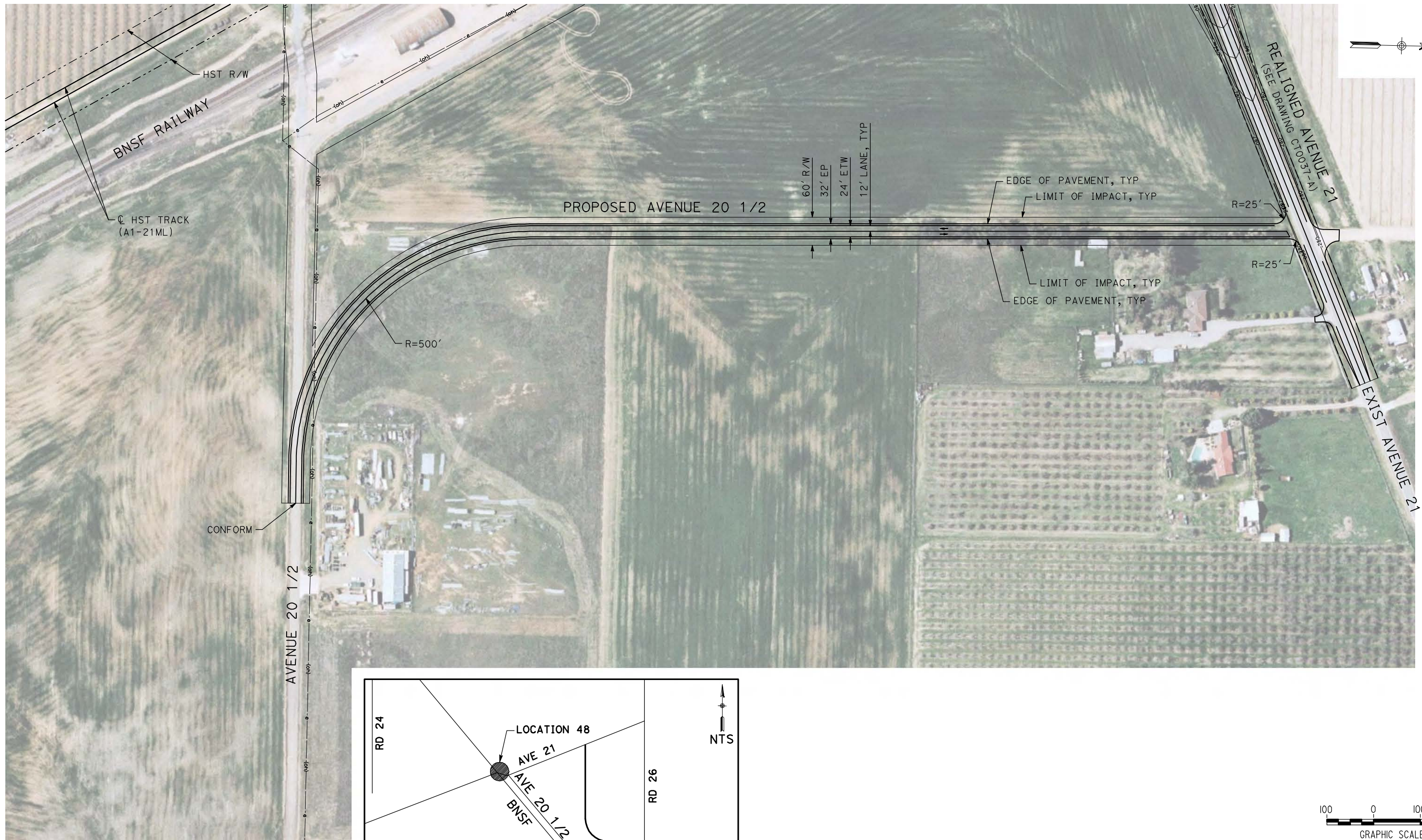
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - ROAD 29
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4001-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**

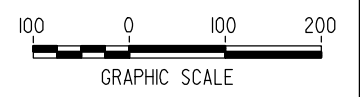
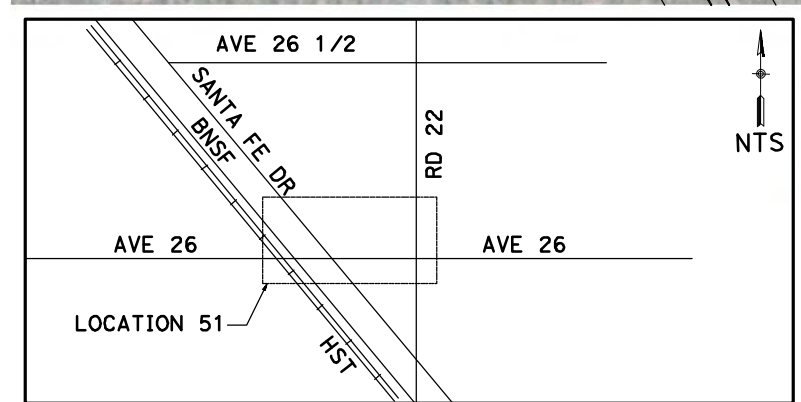
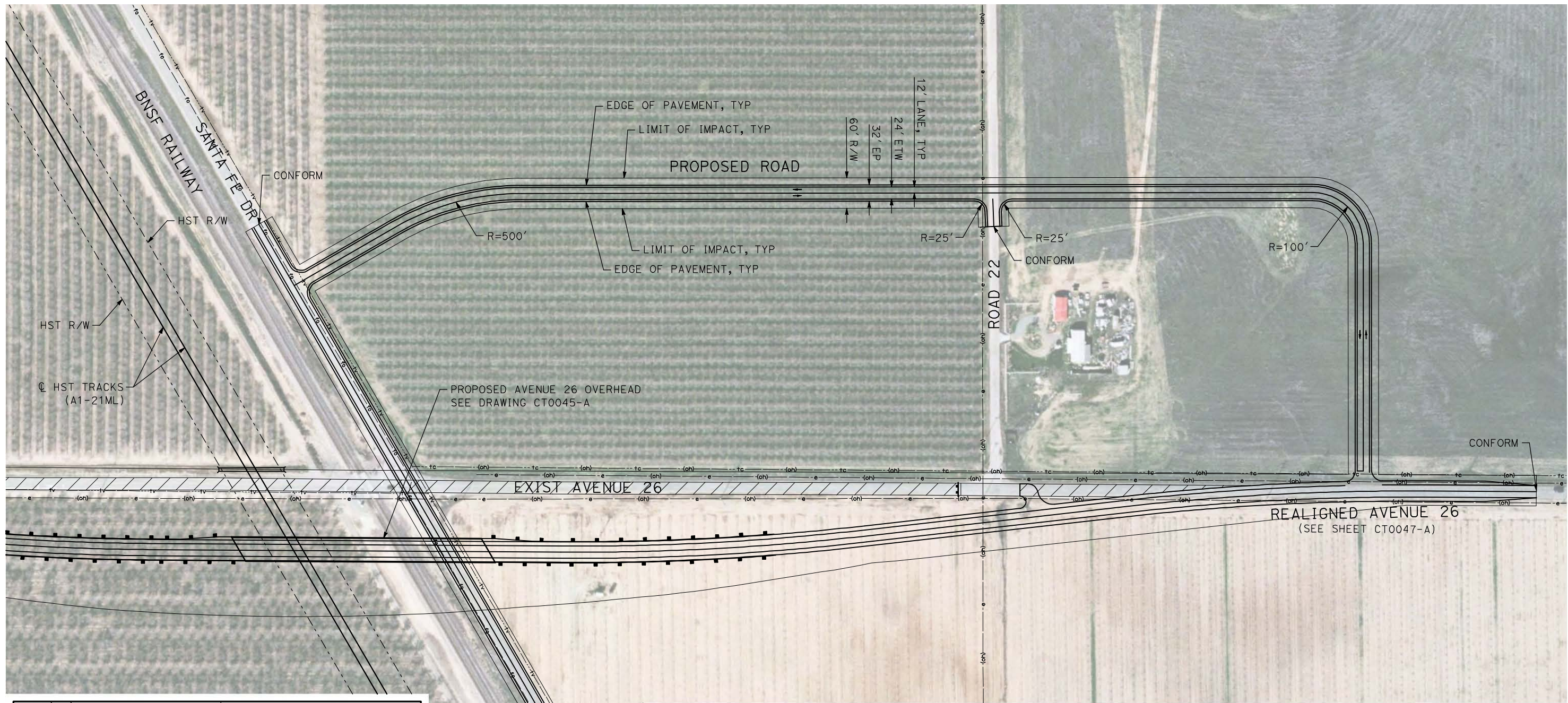


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - AVENUE 20 1/2
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4002-A
SCALE
AS SHOWN
SHEET NO.
OF

5/1/2011 12:55:51 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume_3A - Ave 21 Wye Local Roads\Layout\WF-CR-4005-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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SUBMITTAL**

**NOT FOR
CONSTRUCTION**

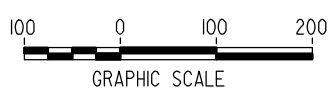
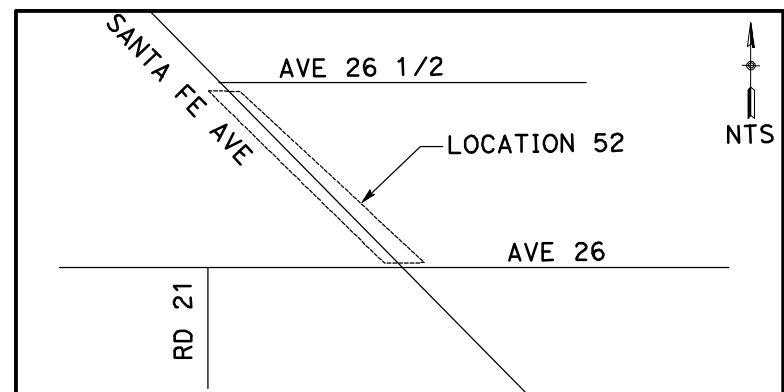
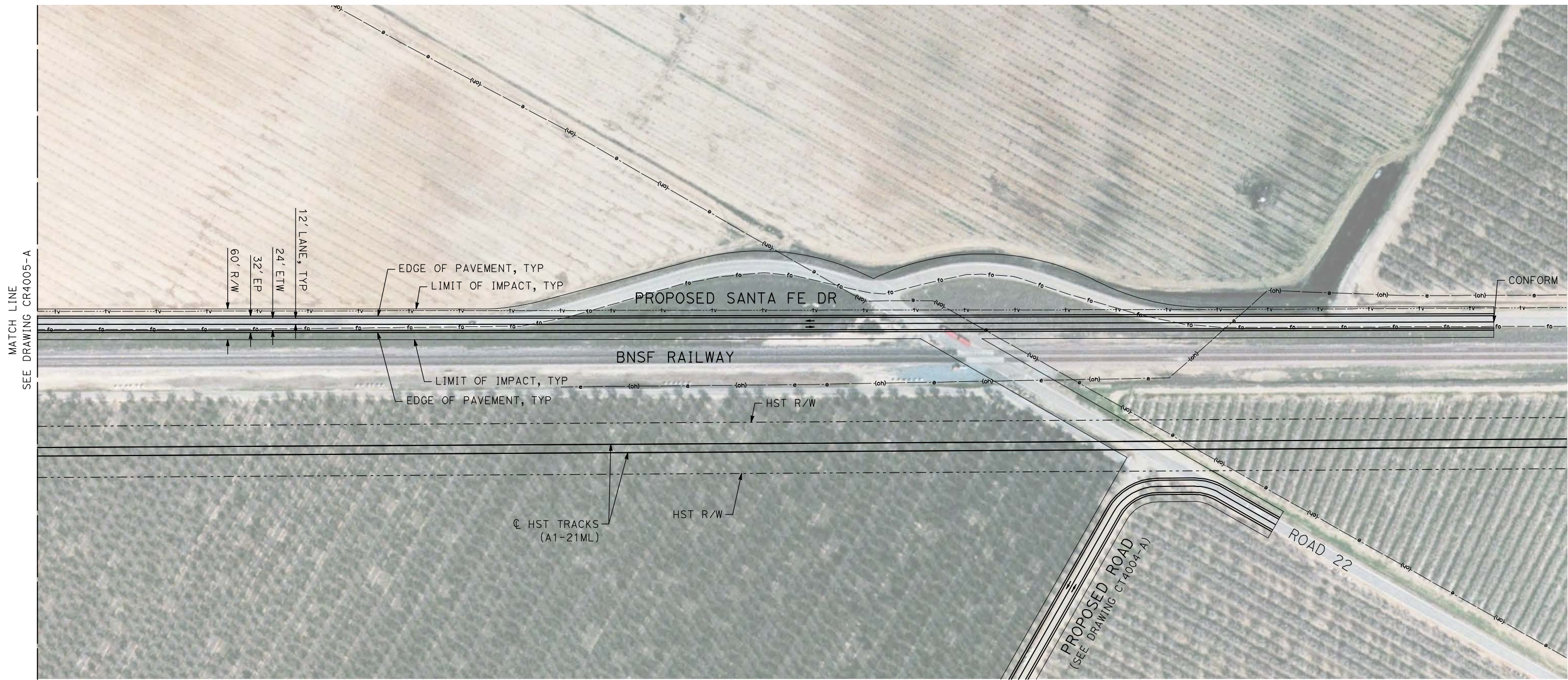


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION - AVE 21 WYE
LOCAL ROAD - AVENUE 26
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4005-A
SCALE
AS SHOWN
SHEET NO.
OF

5/1/2011 12:56:02 PM I:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 3A - Ave 21 Wye Local Roads\Layout\WF-CR-4006-A.DGN



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

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SUBMITTAL

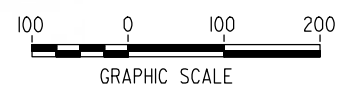
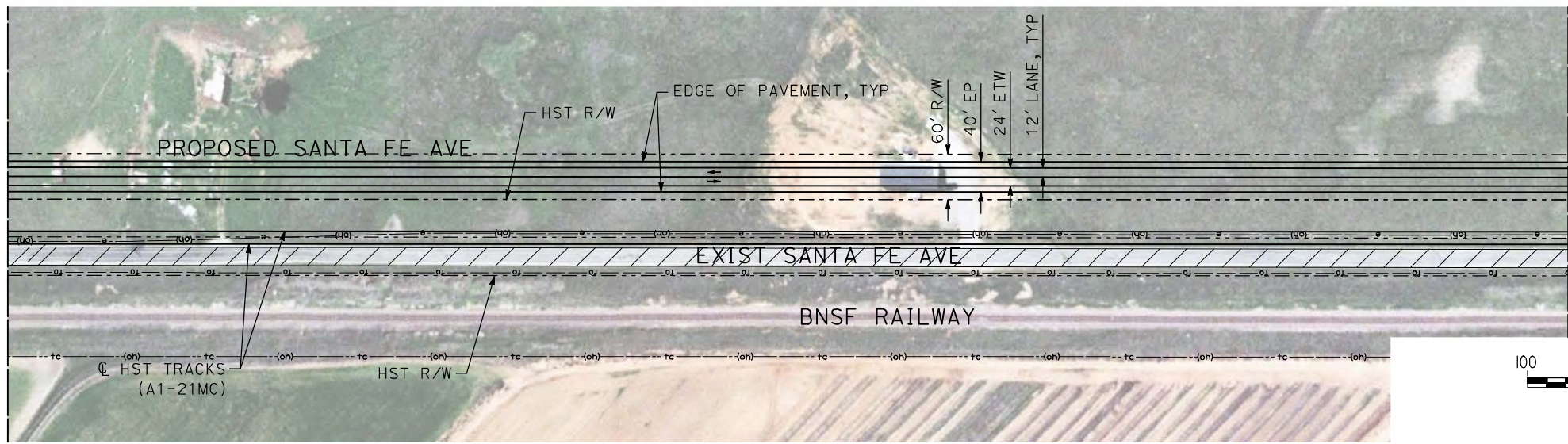
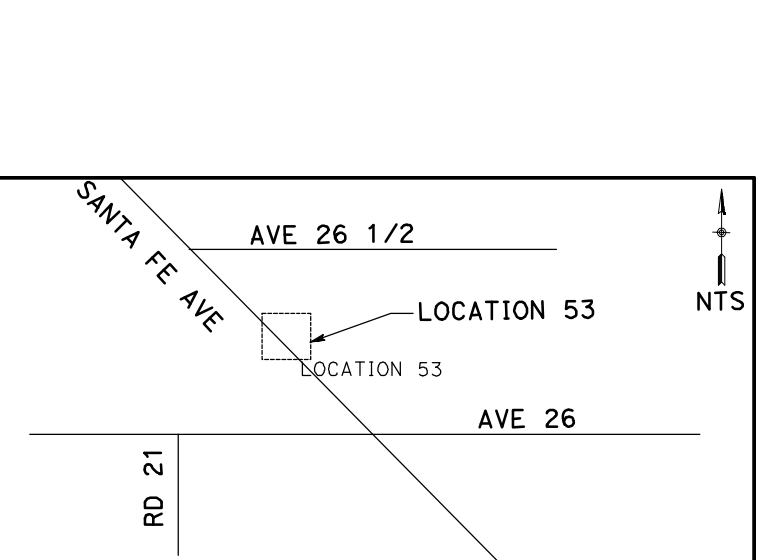
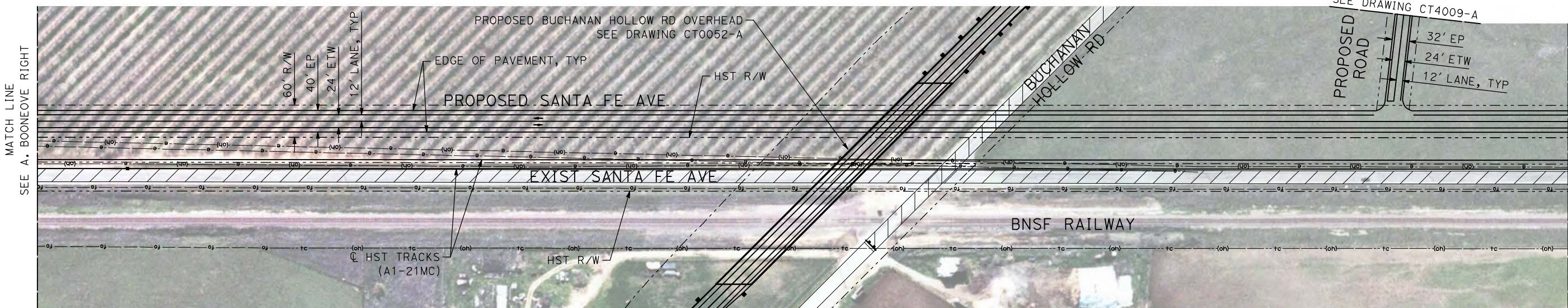
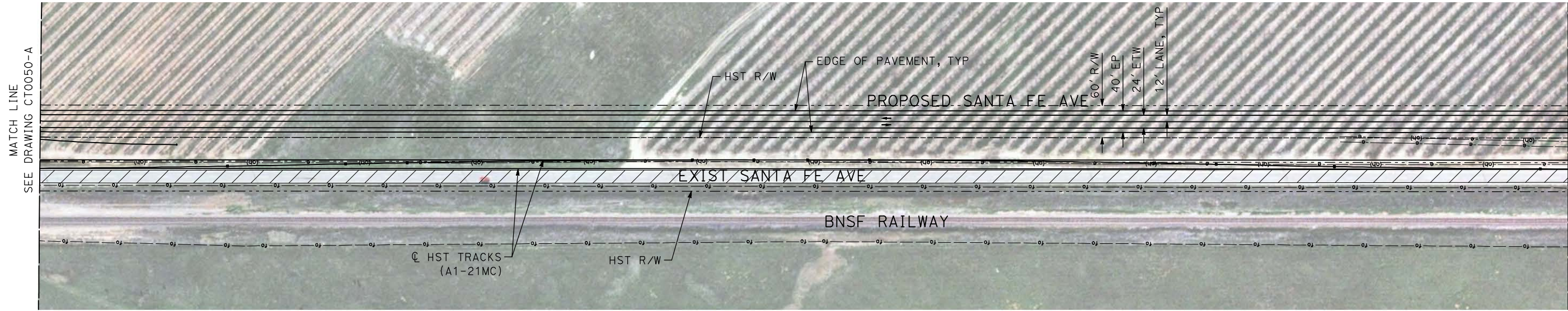
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - SANTA FE DR
LAYOUT
SHEET 2 OF 2

CONTRACT NO.
HST06-007
DRAWING NO.
CR4006-A
SCALE
SHEET NO.
OF

5/1/2011 12:56:17 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume 3A - Ave 21 Wye Local Roads\Layout\WF-CR-4007-A.DGN



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

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SUBMITTAL

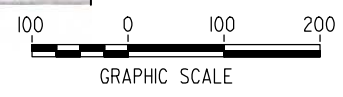
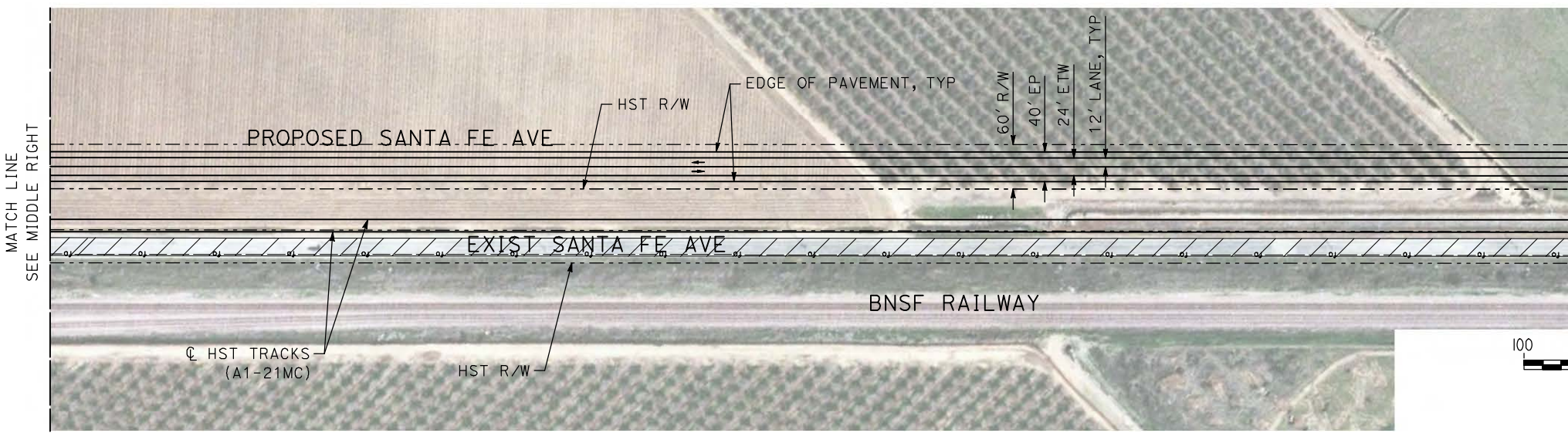
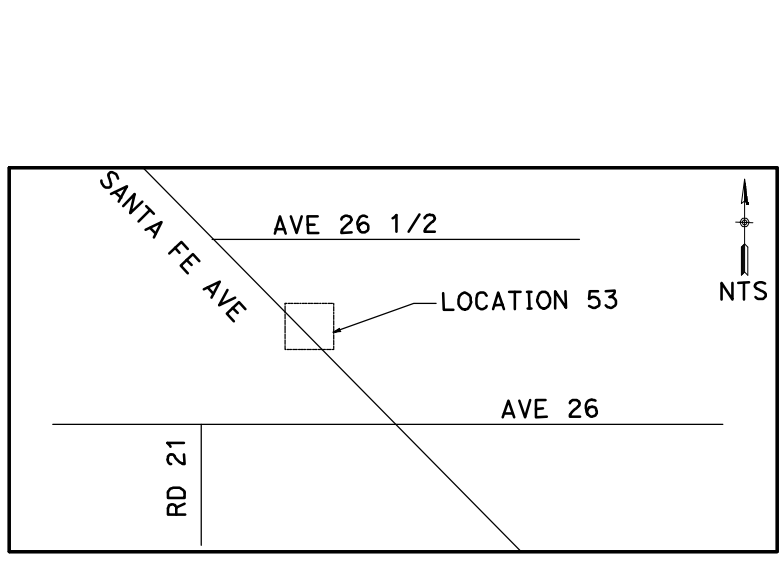
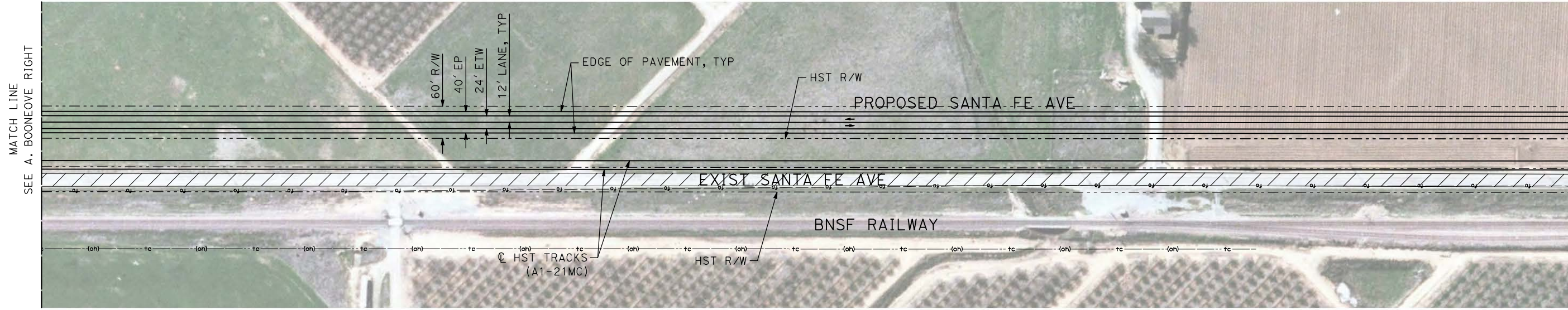
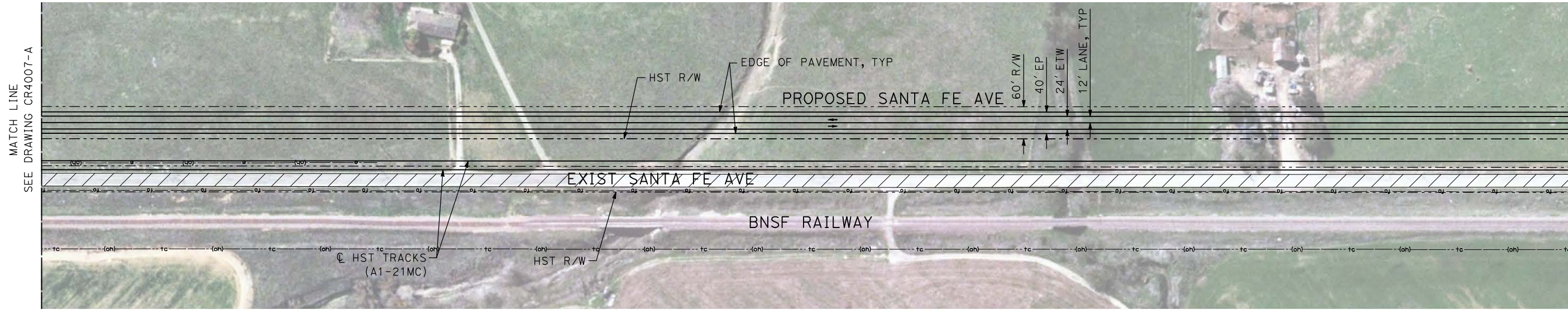
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - SANTA FE AVE
LAYOUT
SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CR4007-A
SCALE
AS SHOWN
SHEET NO.
OF

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R. GIBSON

DRAWN BY
H. PHAN

CHECKED BY
J. ZANDIAN

IN CHARGE
A. BOONE

DATE
04/29/2011

RECORD SET
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SUBMITTAL

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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - SANTA FE AVE
LAYOUT
SHEET 2 OF 3

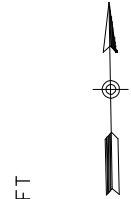
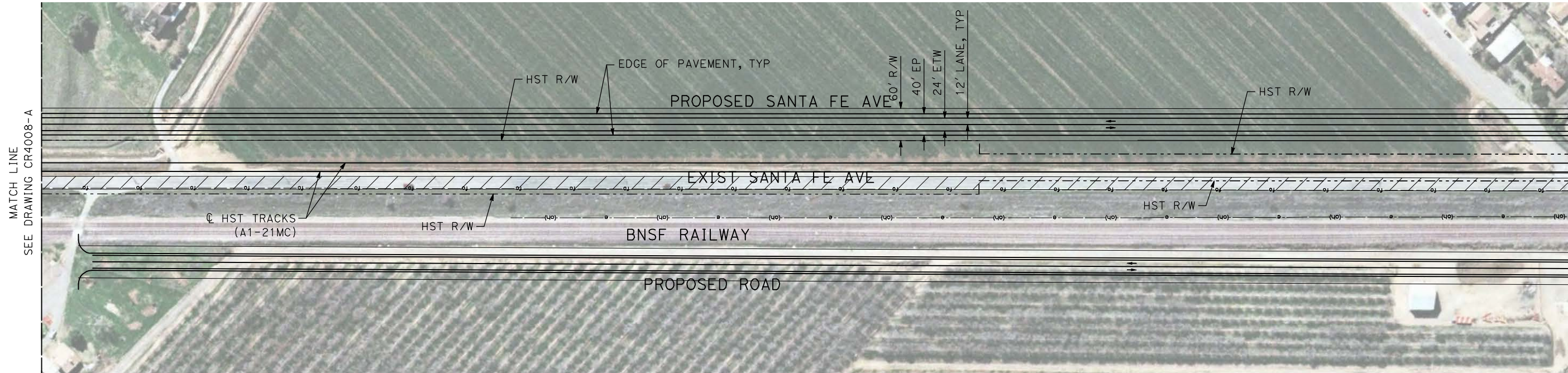
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HST06-007

DRAWING NO.
CR4008-A

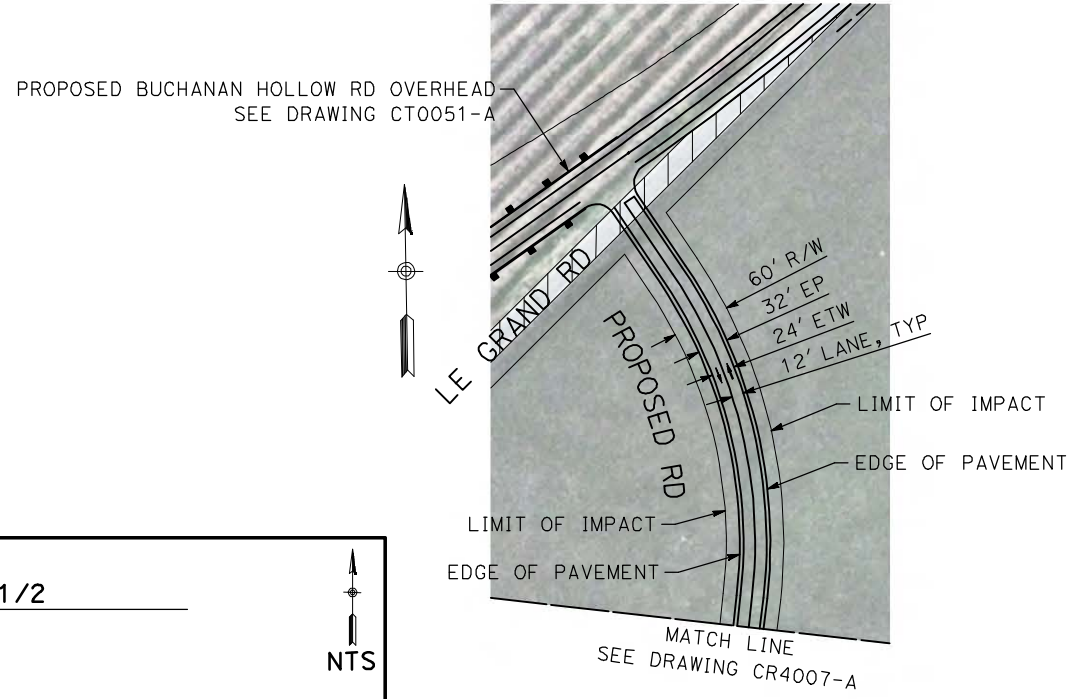
SCALE
AS SHOWN

SHEET NO.
OF

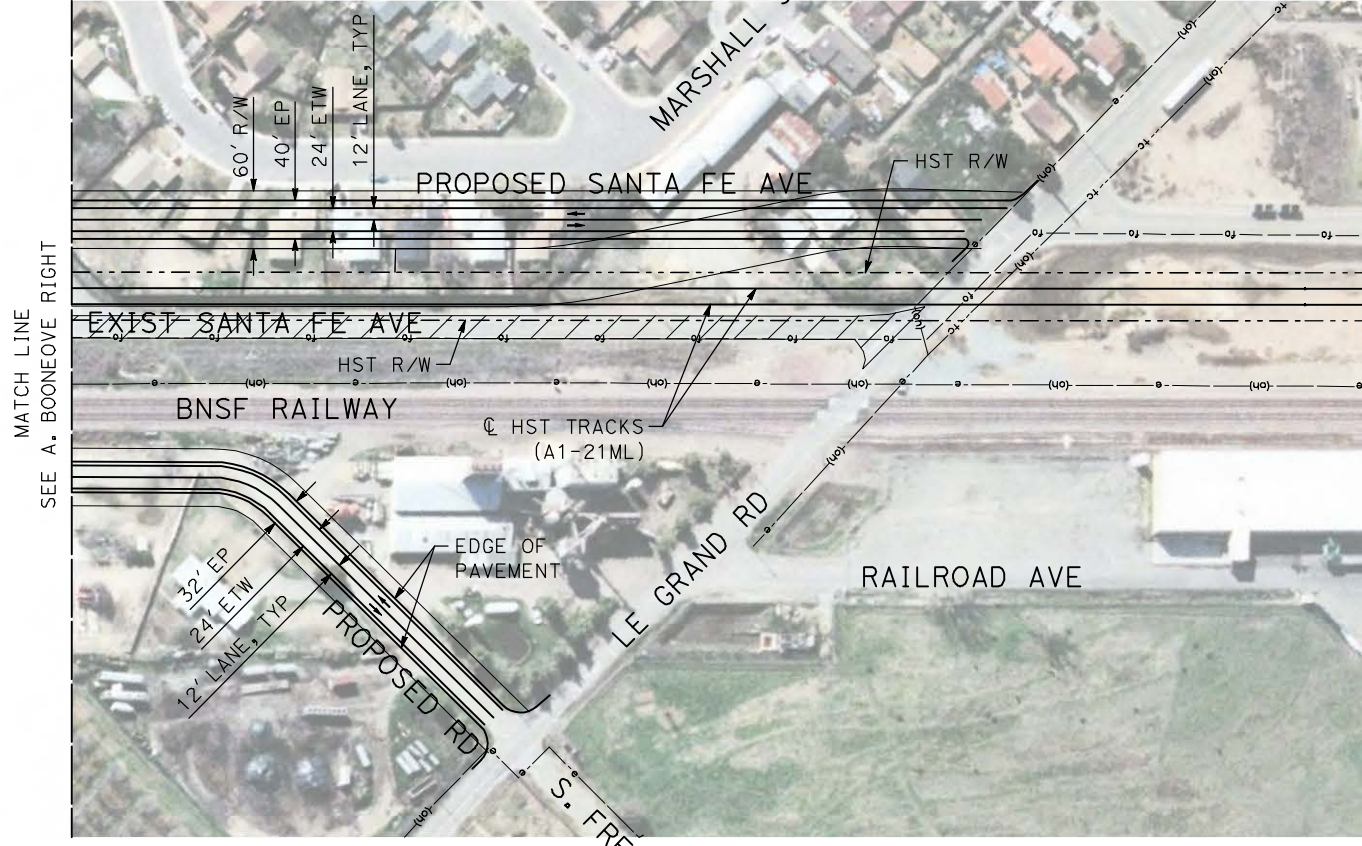
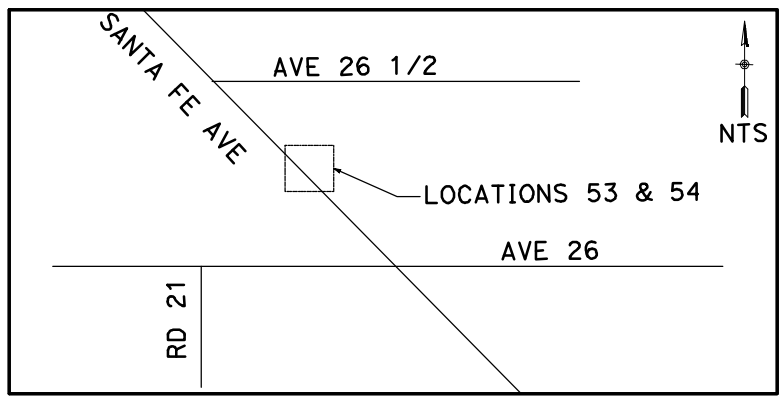
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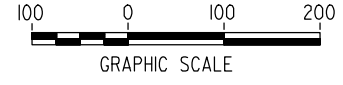
MATCH LINE
SEE BELOW LEFT



MATCH LINE
SEE DRAWING CR4007-A



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
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SUBMITTAL

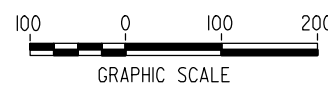
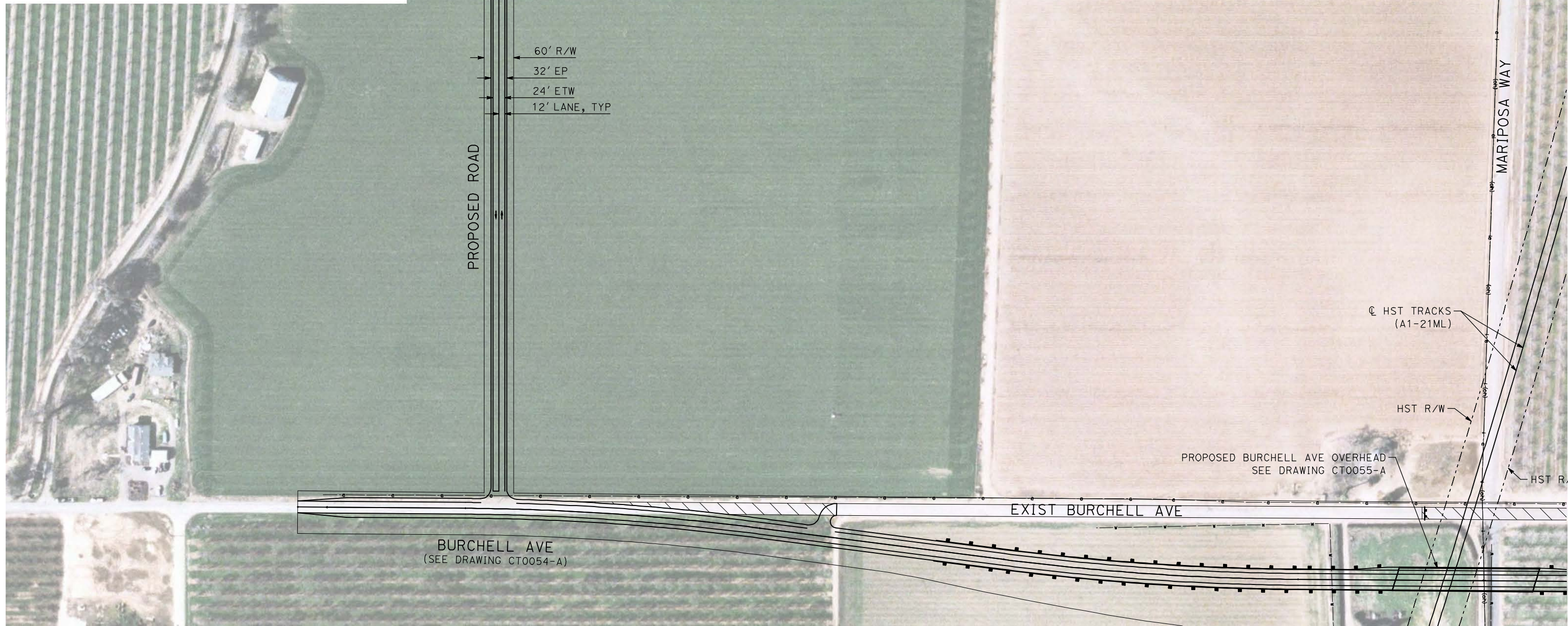
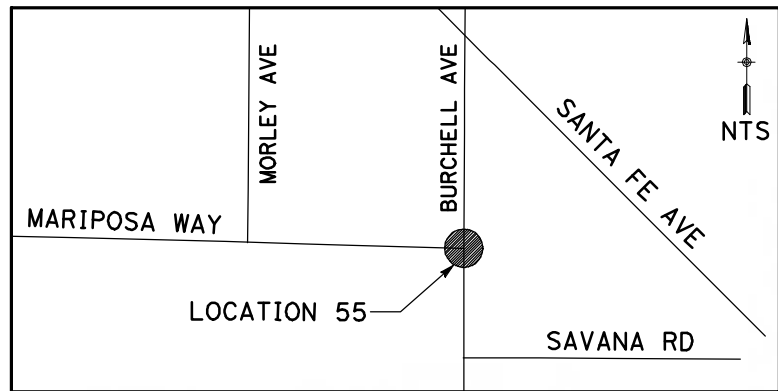
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 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

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

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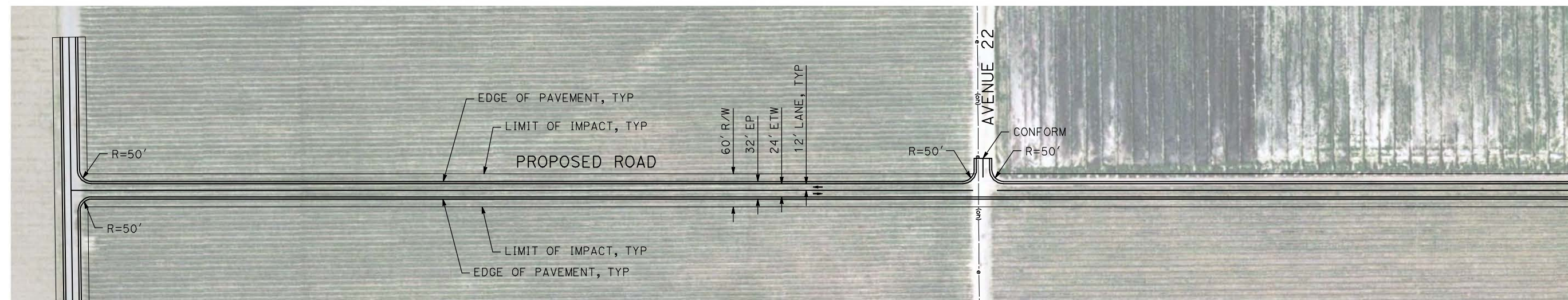
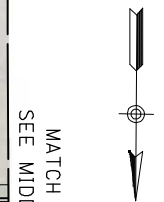
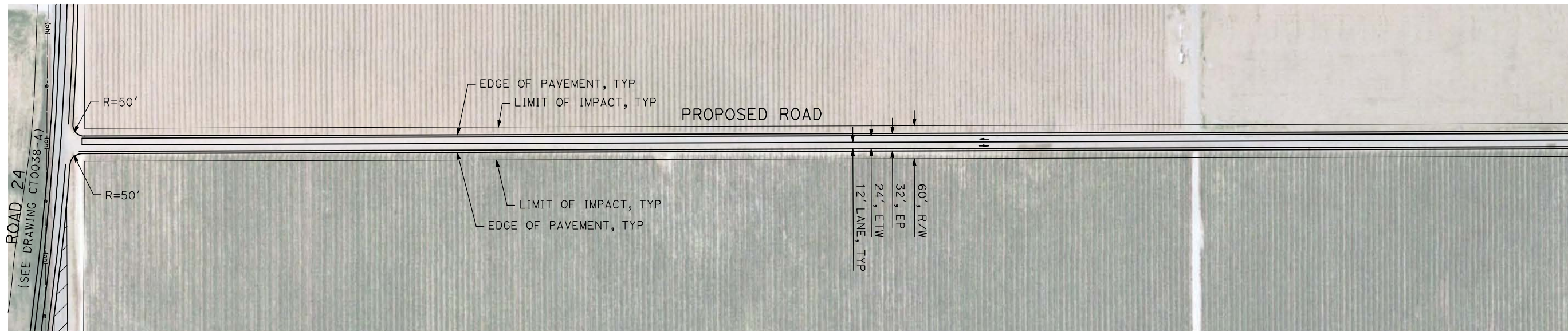
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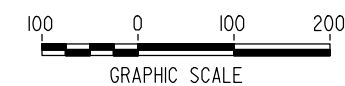
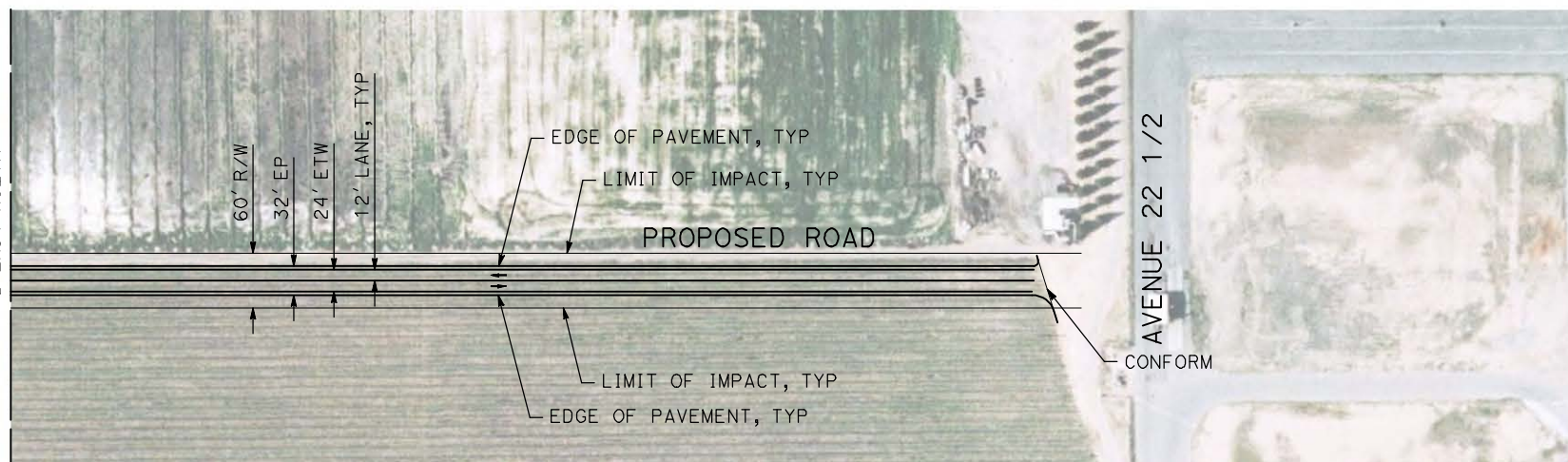
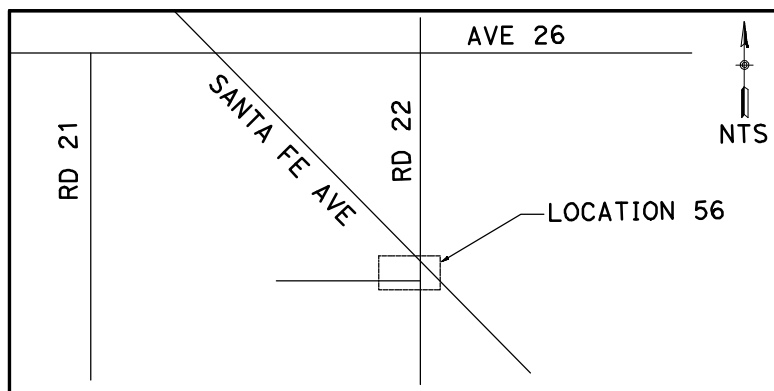
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - BURCHELL AVE
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4010-A
SCALE
AS SHOWN
SHEET NO.
OF

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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
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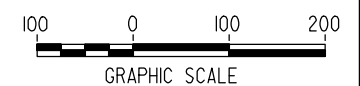
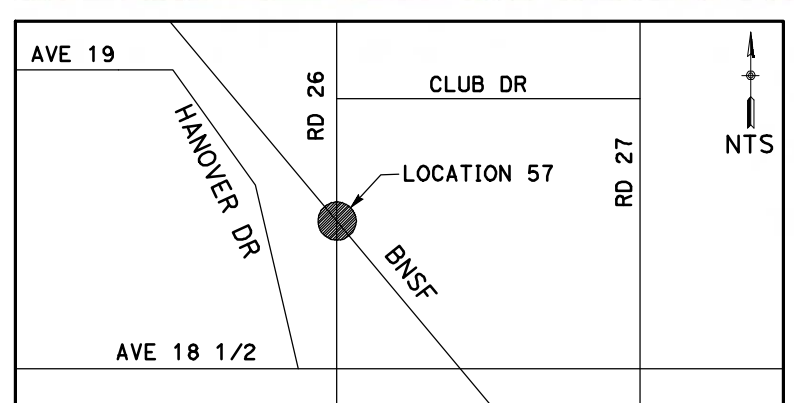
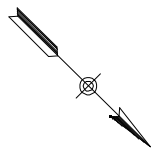
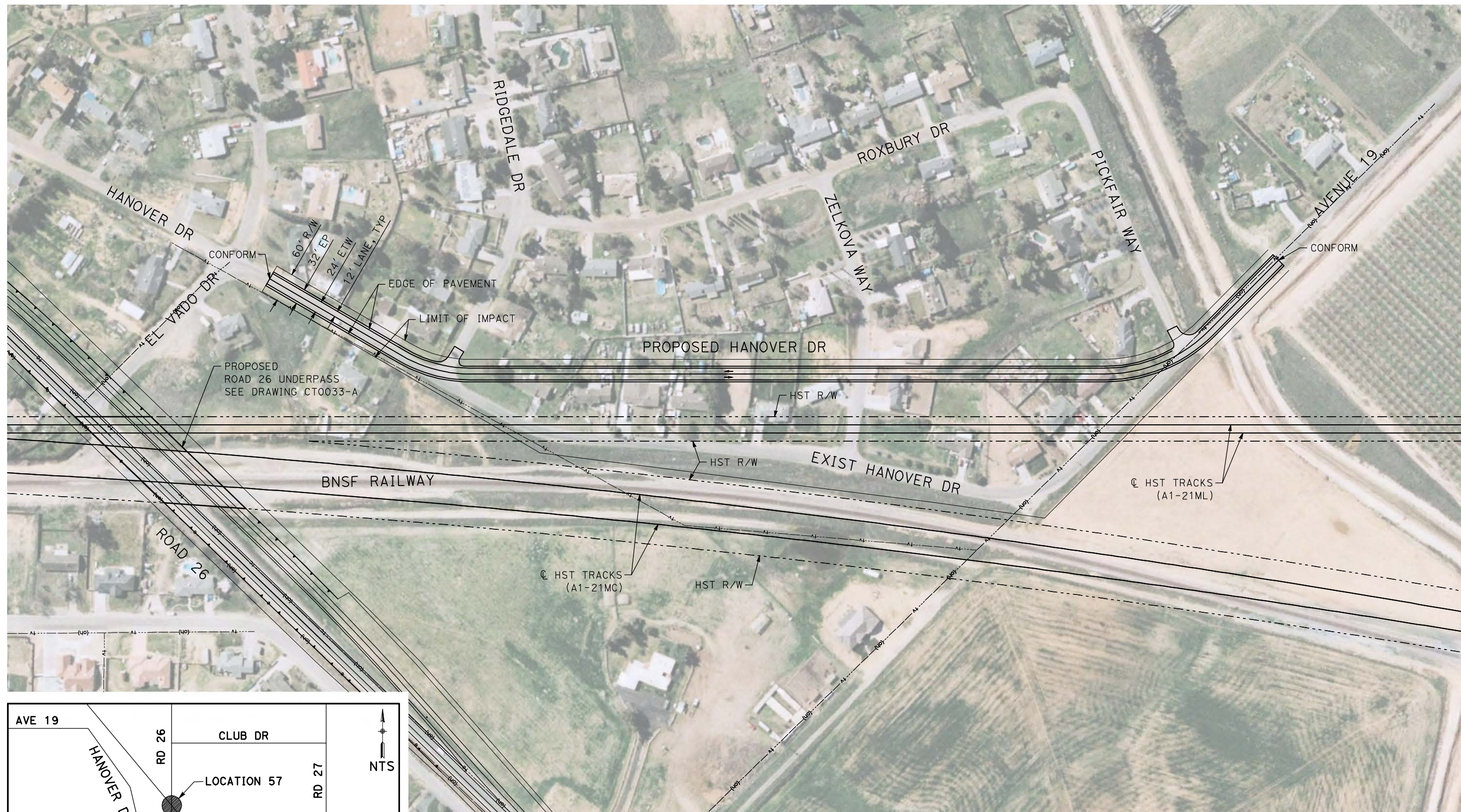
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 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

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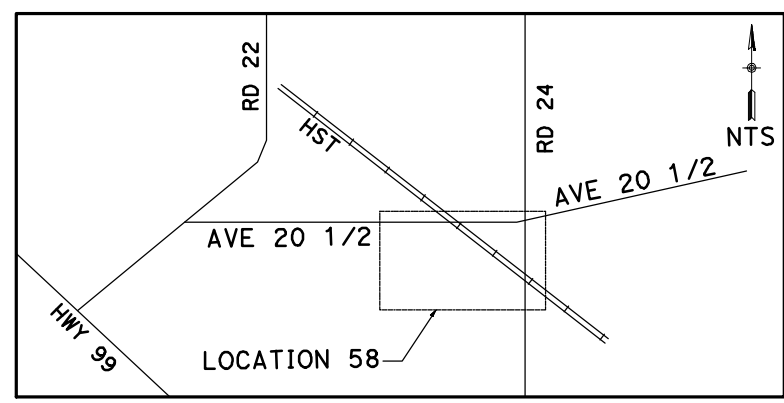
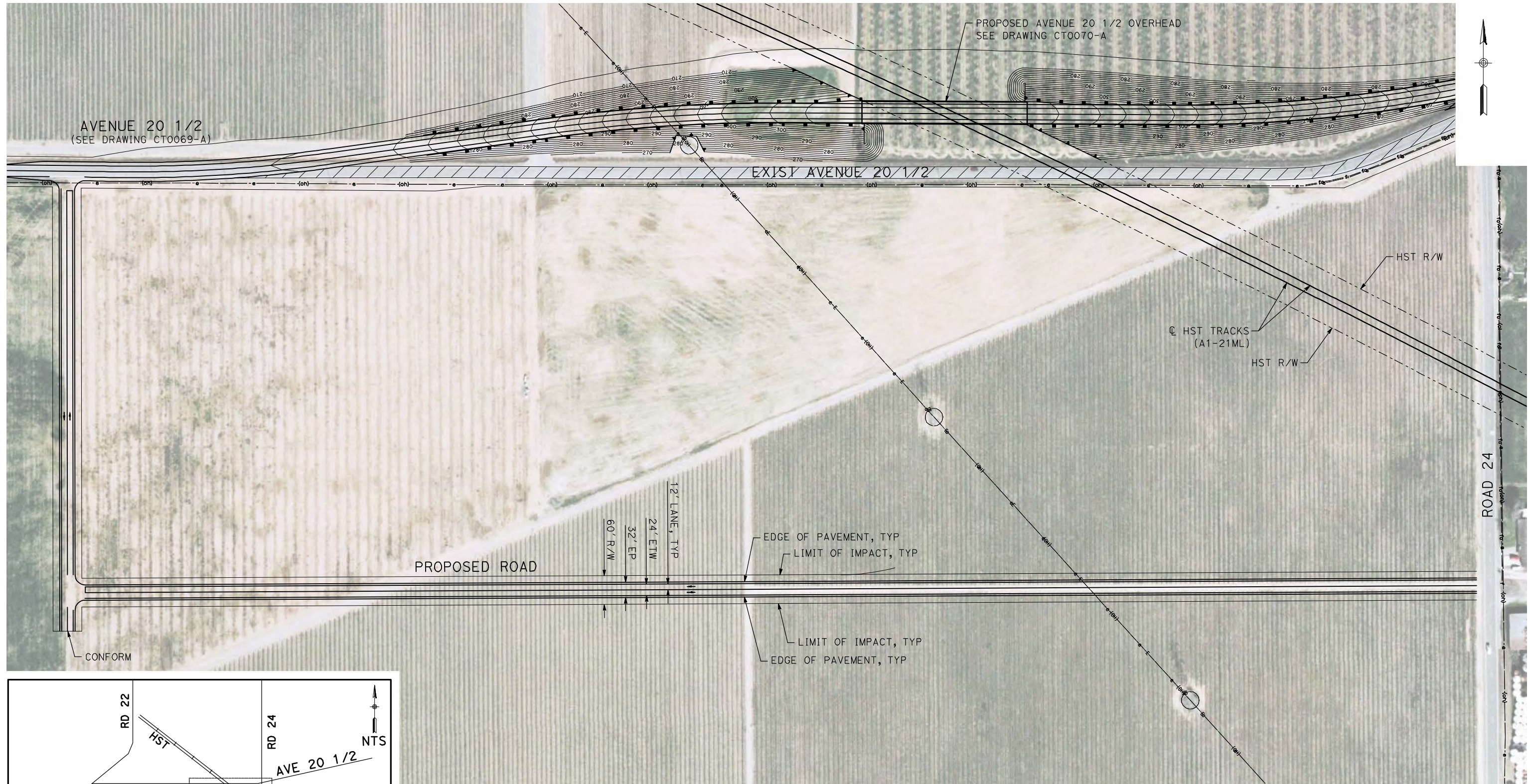
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - HANOVER DR
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4012-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

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CONSTRUCTION

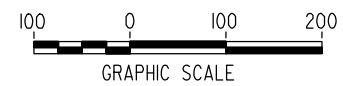
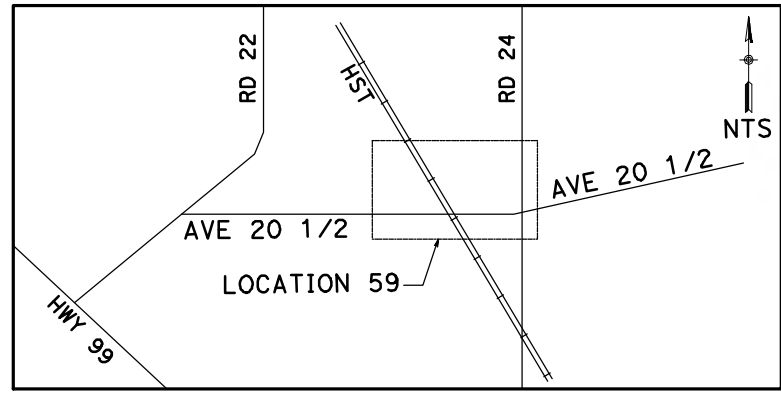
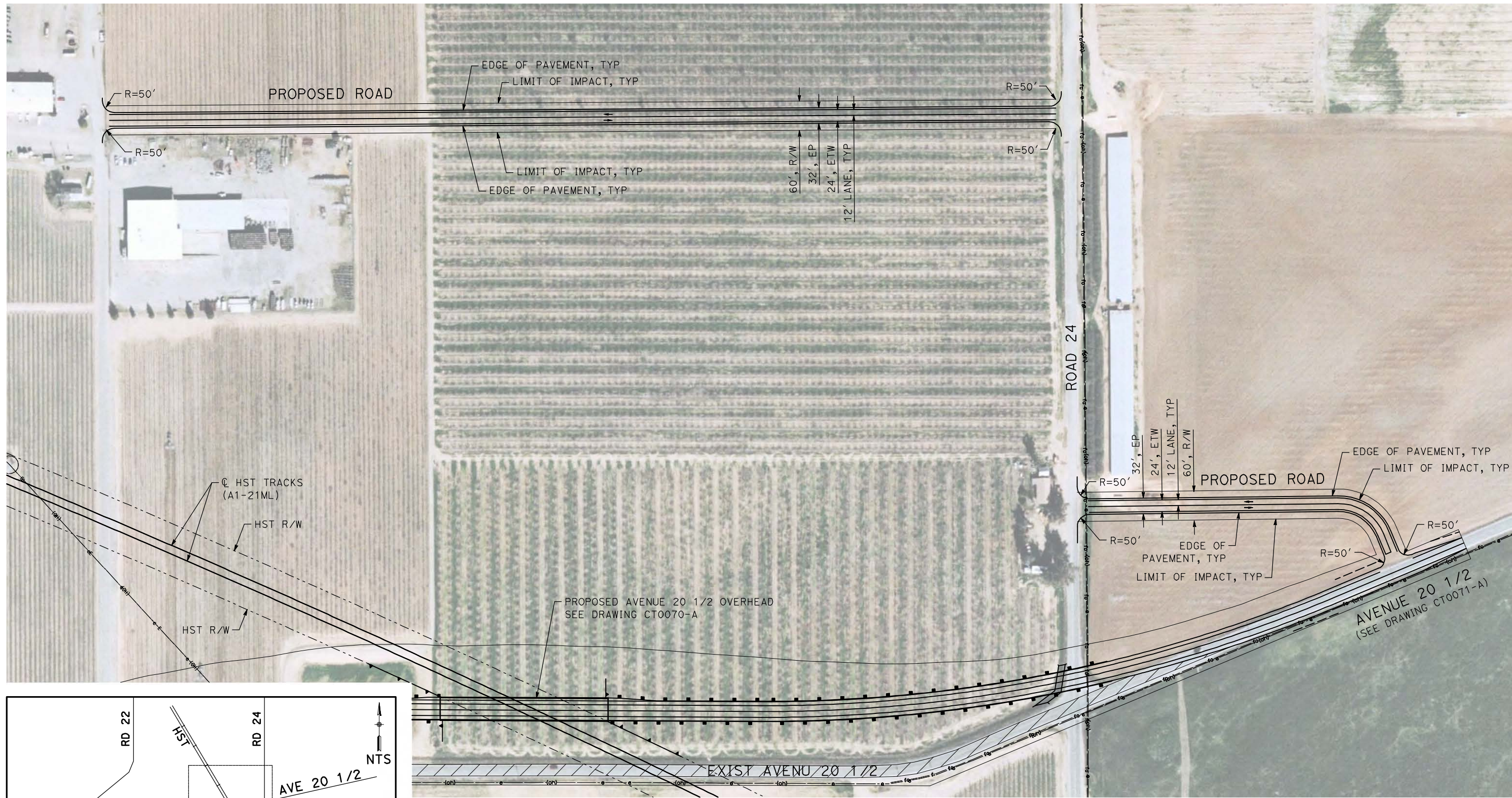


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 21 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

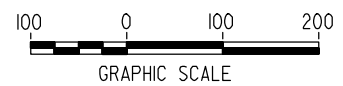
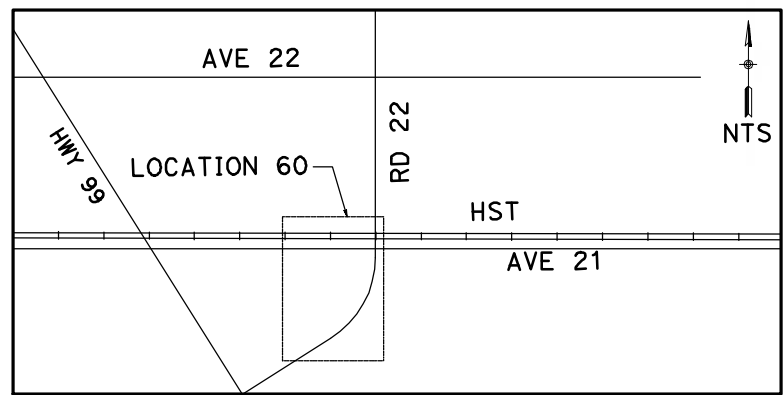
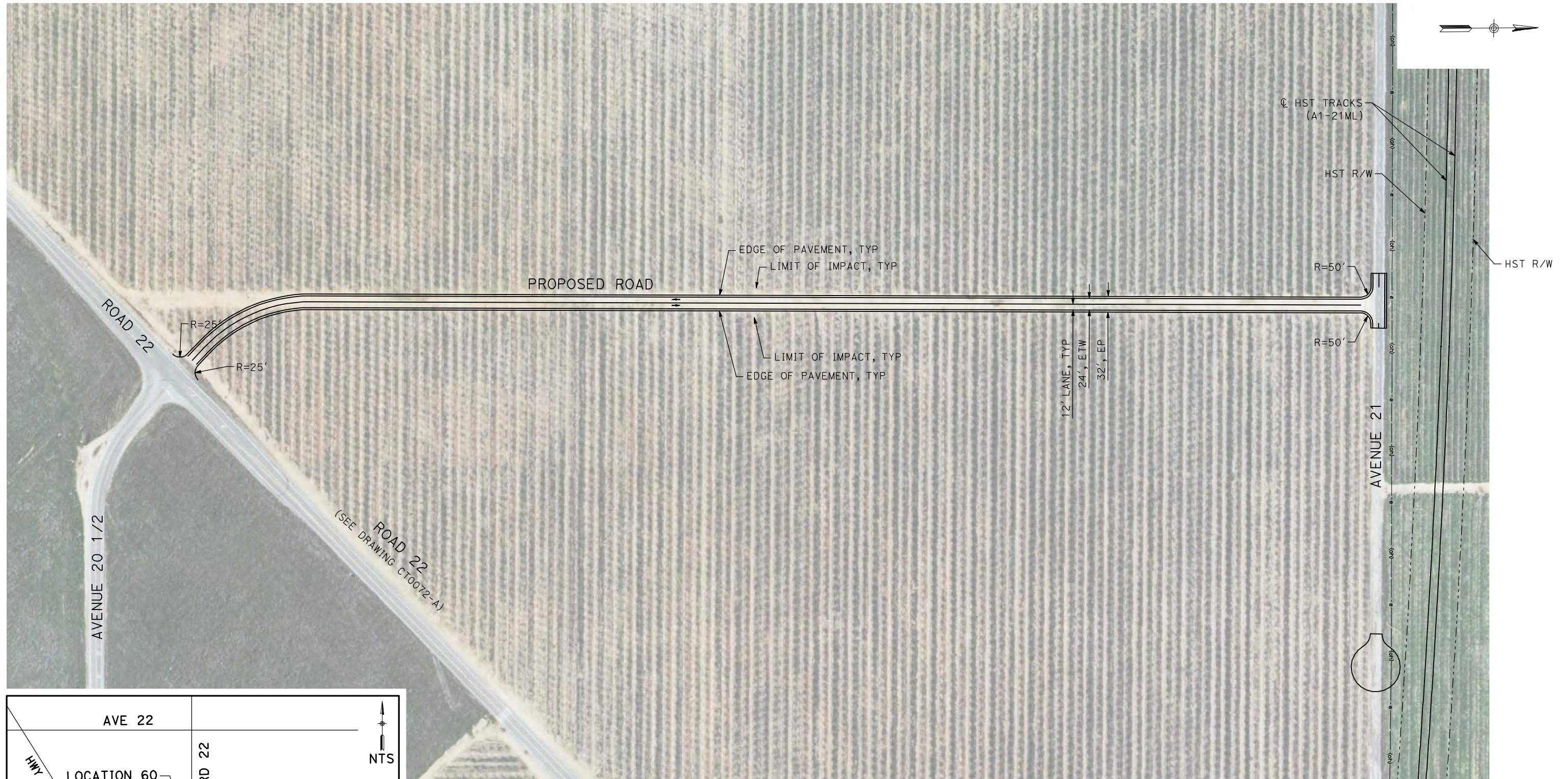
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 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

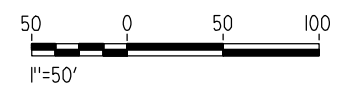
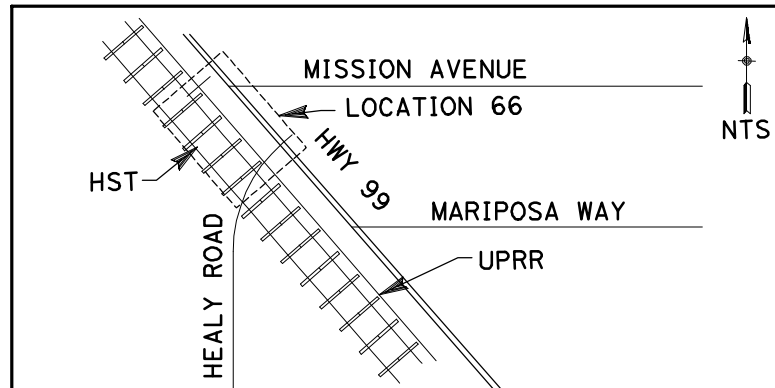
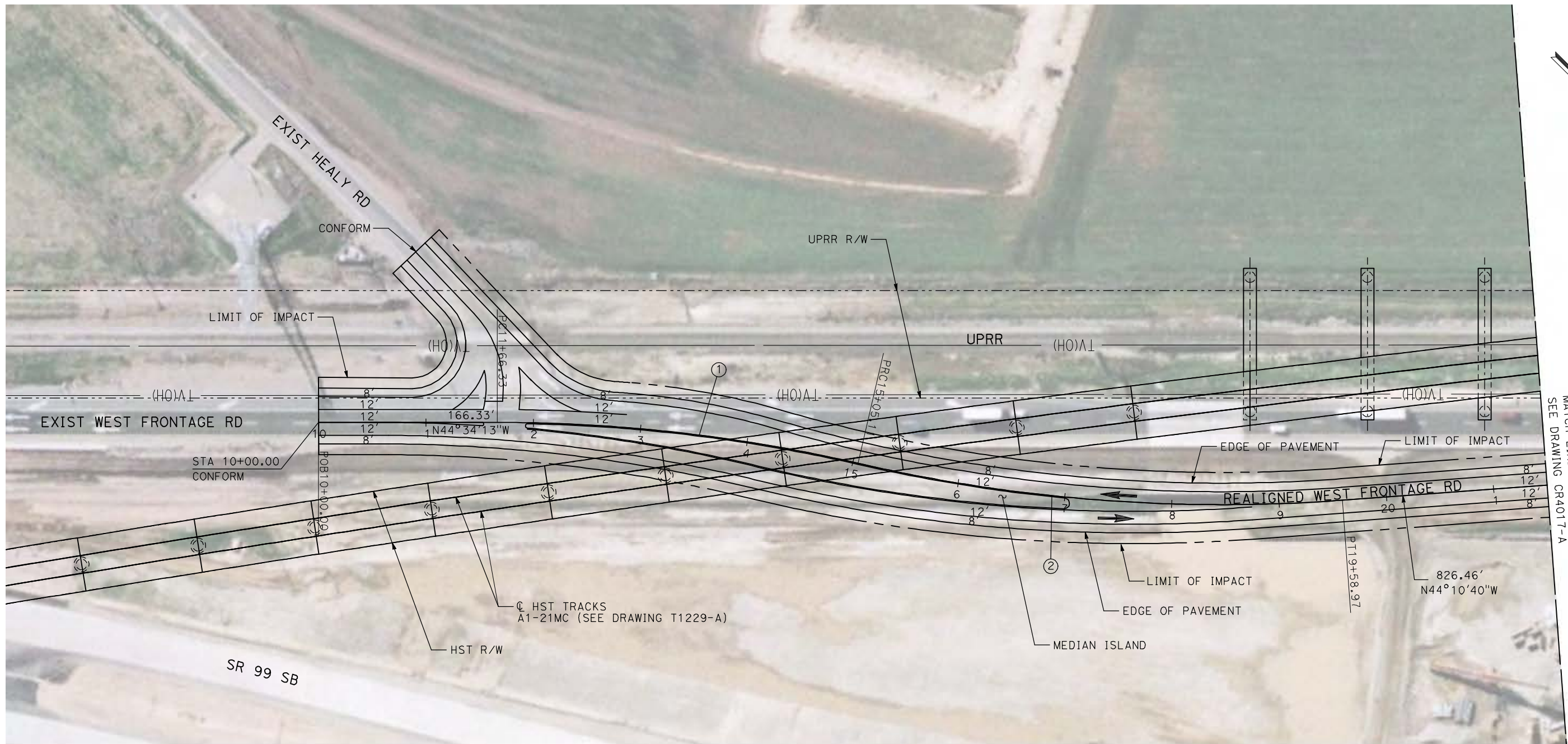
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - AVE 21 WYE
LOCAL ROAD - ROAD 22
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4015-A
SCALE
AS SHOWN
SHEET NO.
OF

5/1/2011 12:58:10 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\roadway\ave21\Volume_3A - Ave 21 Wye Local Roads\Layout\WF-CR-4016-A.dgn



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

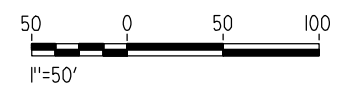
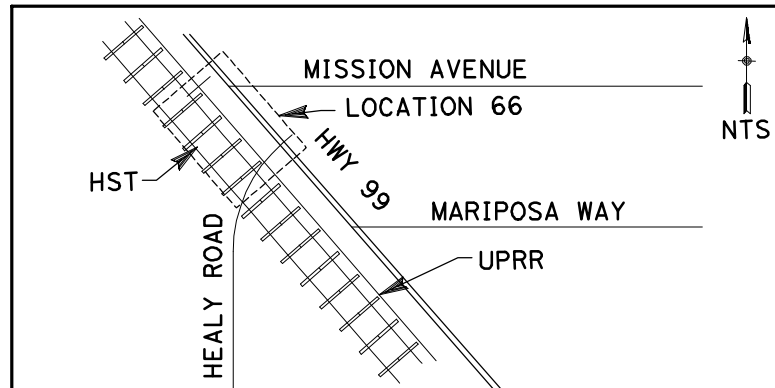
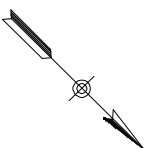
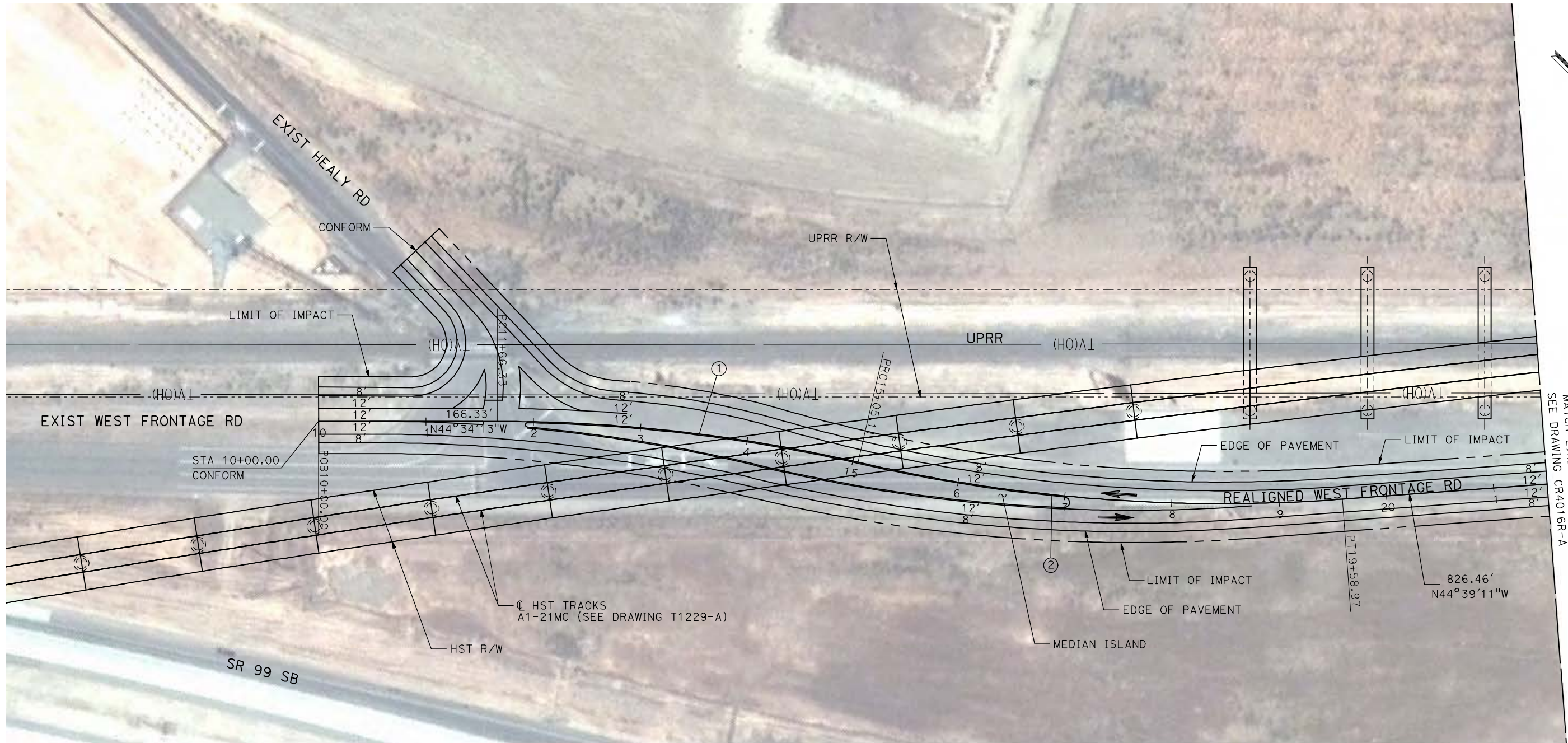


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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

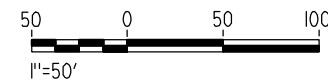
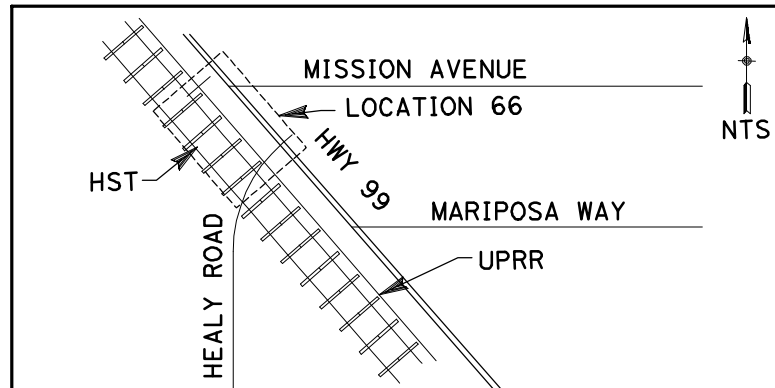
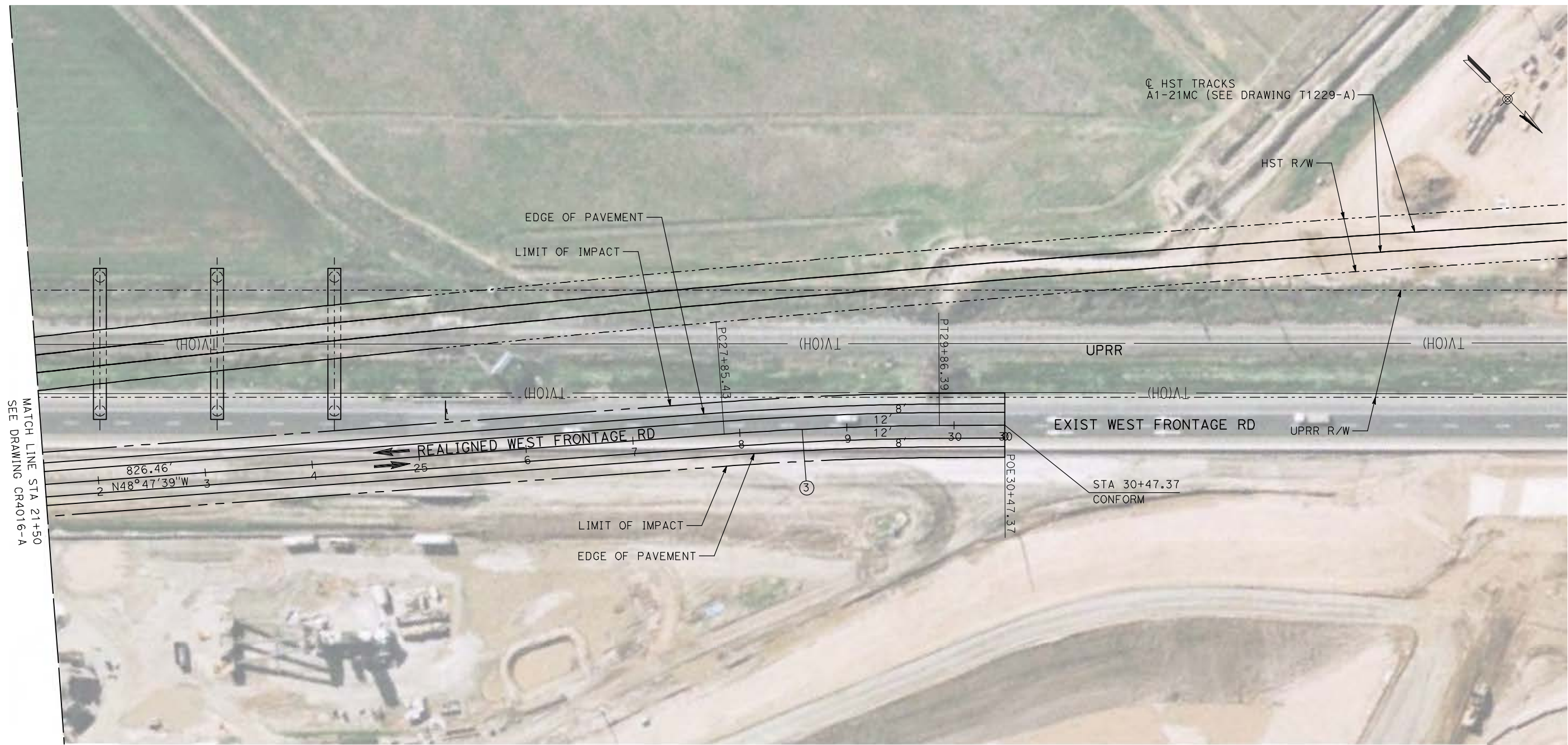


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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

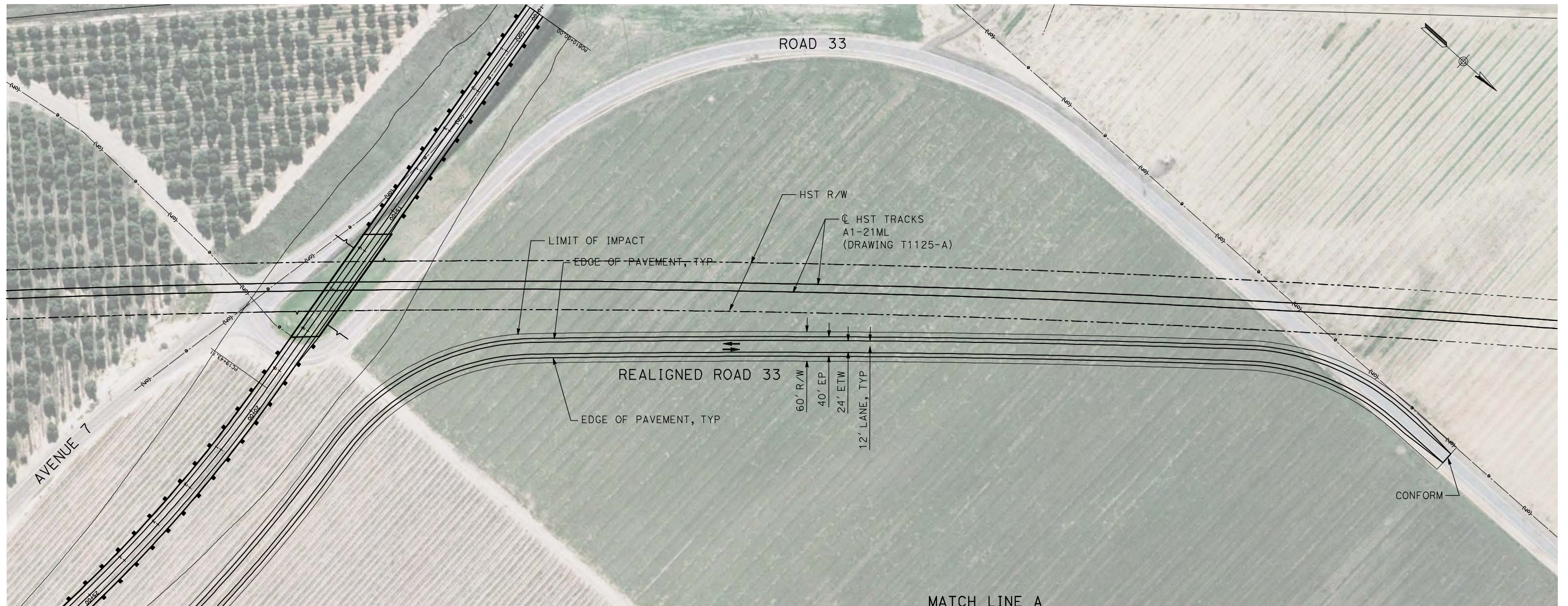


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 WYE
PROPOSED WEST FRONTAGE ROAD
LAYOUT
SHEET 2 OF 2

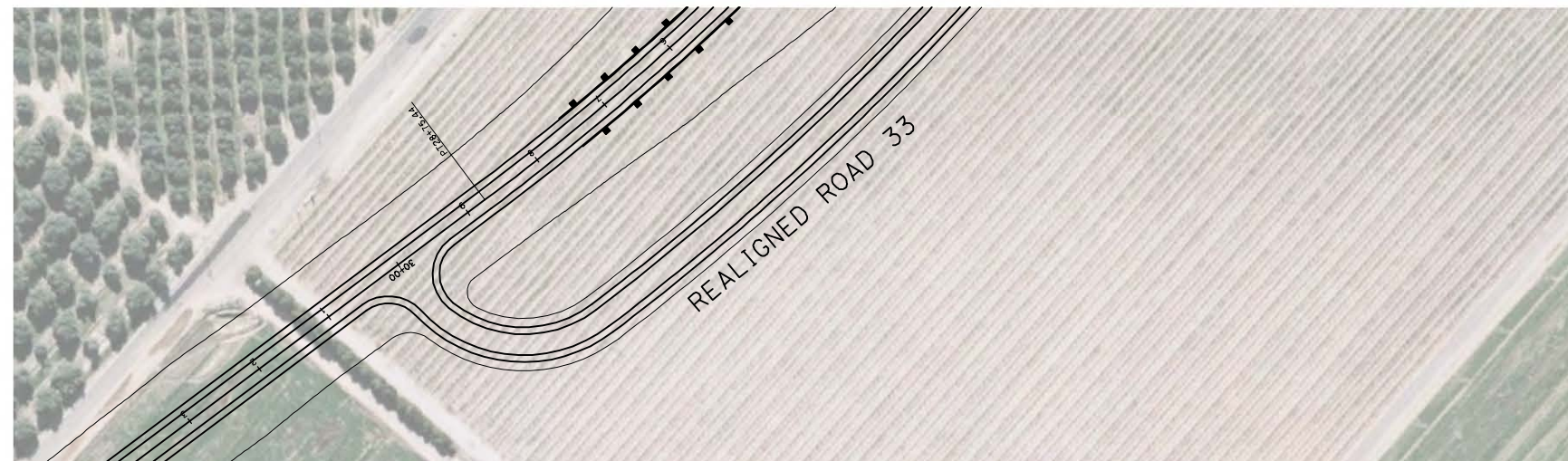
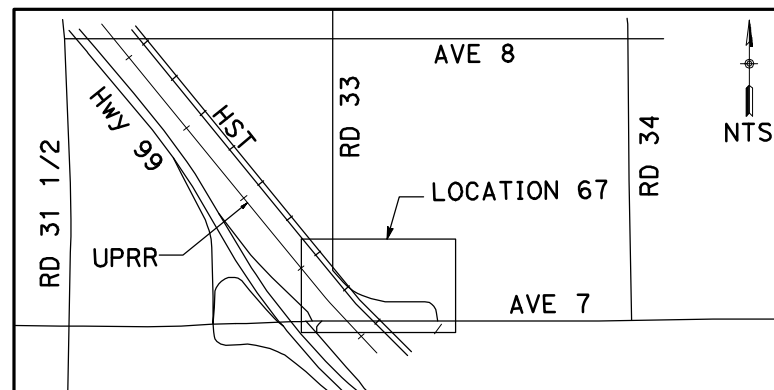
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HSR06-007
DRAWING NO.
CR4017-A
SCALE
AS SHOWN
SHEET NO.
OF

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MATCH LINE A
SEE BELOW RIGHT

MATCH LINE A
SEE ABOVE LEFT



BNSF MERCED CONNECTION - AVE 21 WYE

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
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SUBMITTAL

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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

LOCAL ROAD - ROAD 33
LAYOUT
SHEET 1 OF 1

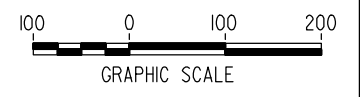
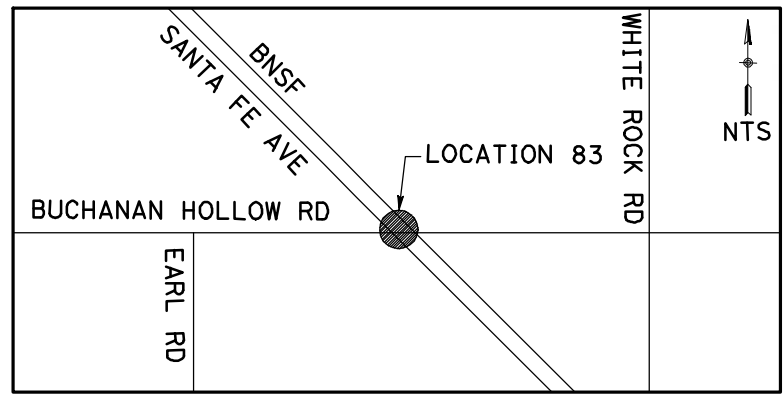
CONTRACT NO.
HST06-007

DRAWING NO.
CR4018-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

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CONSTRUCTION



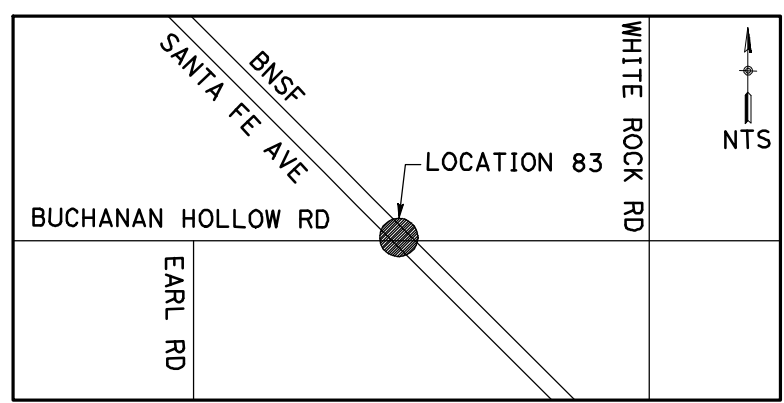
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21
 LOCAL ROAD - S. WHITE ROCK RD
 LAYOUT
 SHEET 1 OF 2

CONTRACT NO.
HST06-007
 DRAWING NO.
CR4200-A
 SCALE
AS SHOWN
 SHEET NO.
OF

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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

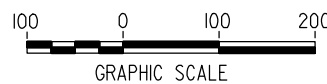
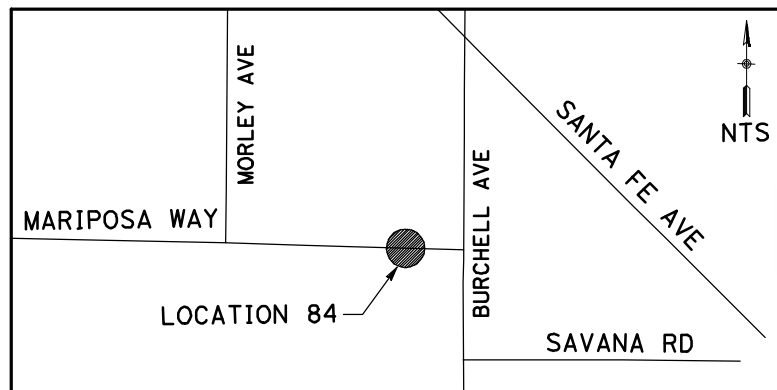
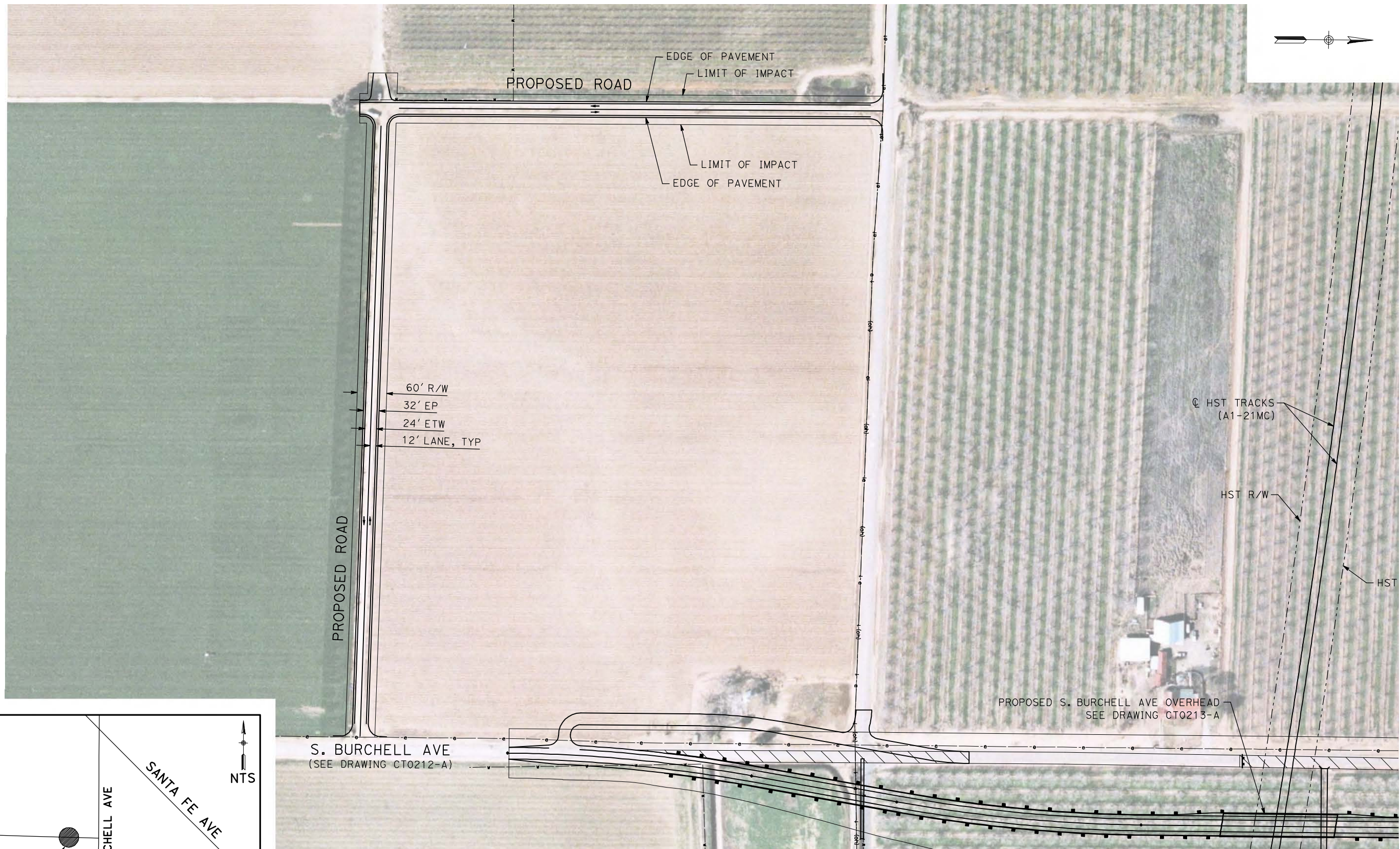


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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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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

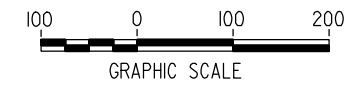
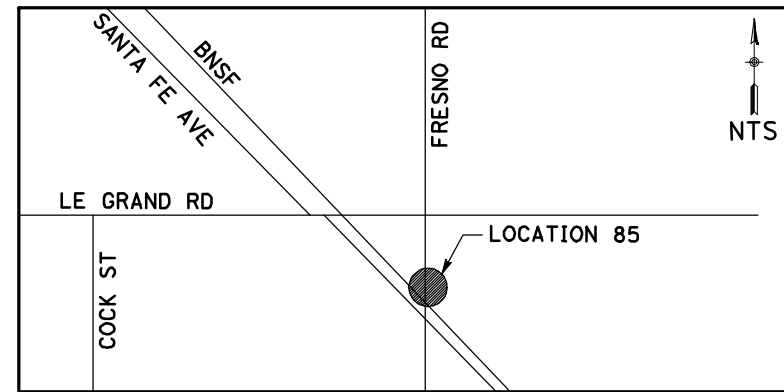
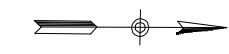
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION - AVE 21
LOCAL ROAD - S. BURCHELL AVE
LAYOUT
SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4202-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

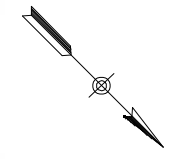
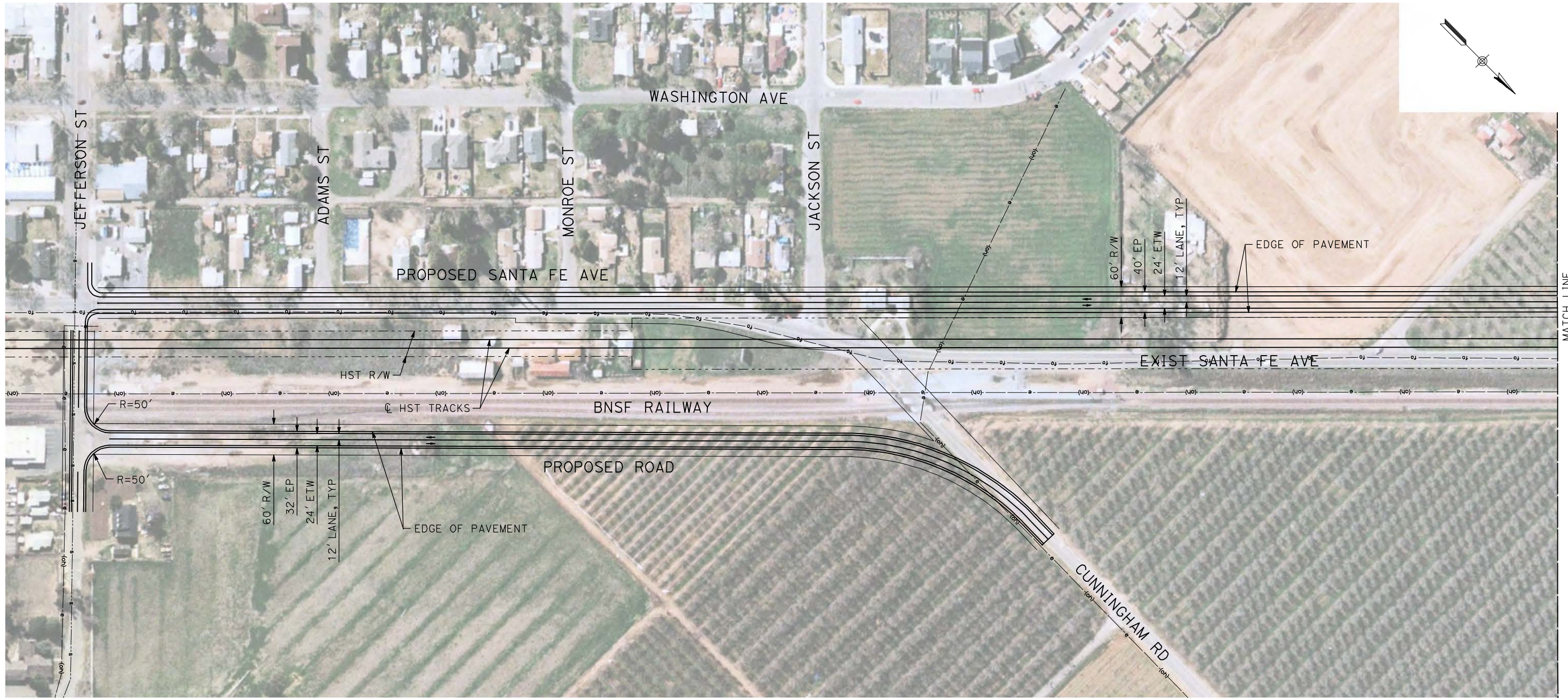
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CONSTRUCTION



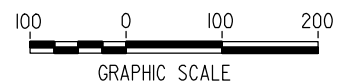
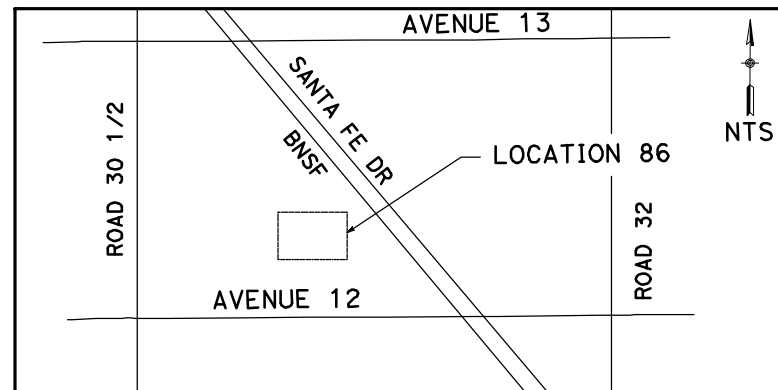
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 21
LOCAL ROAD - S. FRESNO RD
LAYOUT
SHEET 1 OF 1

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

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

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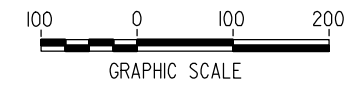
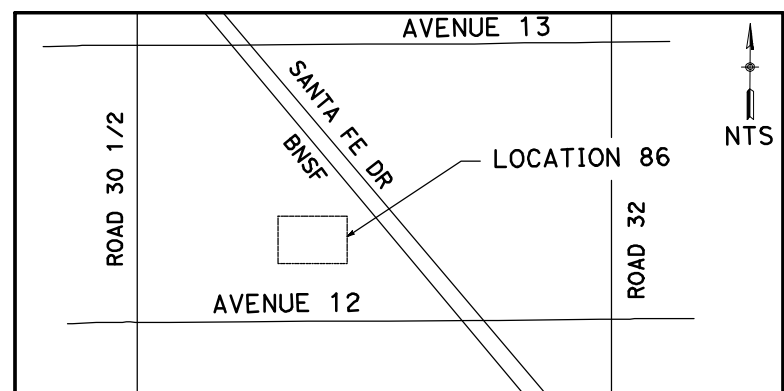
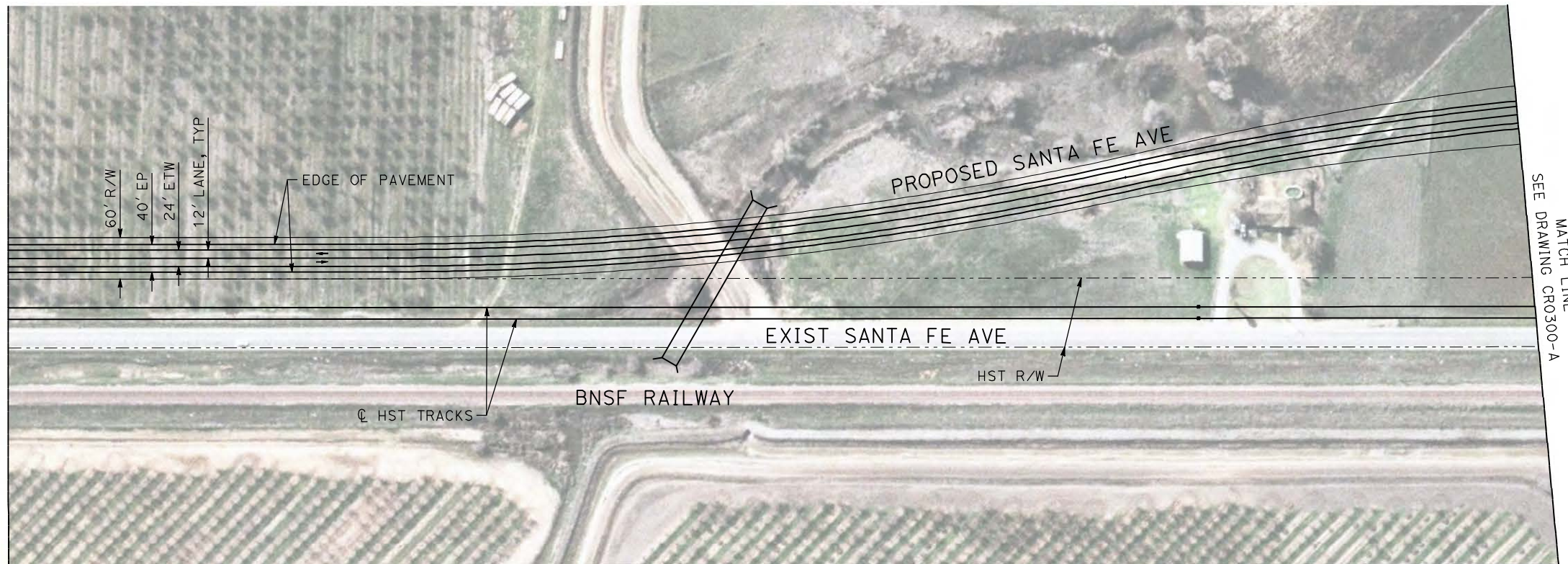
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
 BNSF MERCED CONNECTION - AVE 21 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 ###

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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
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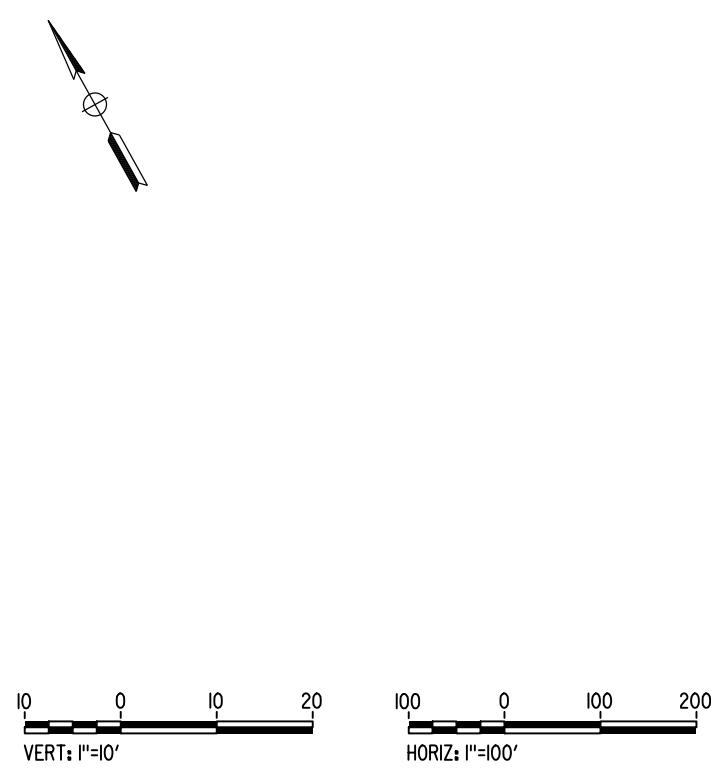
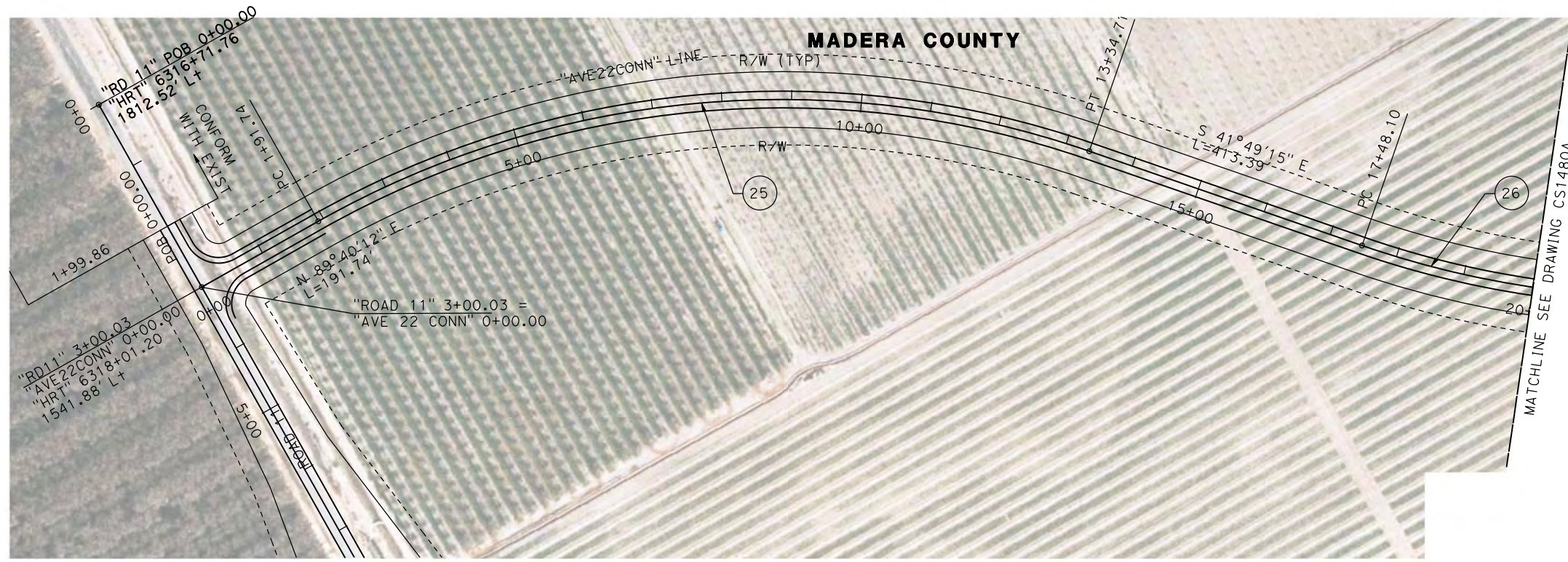
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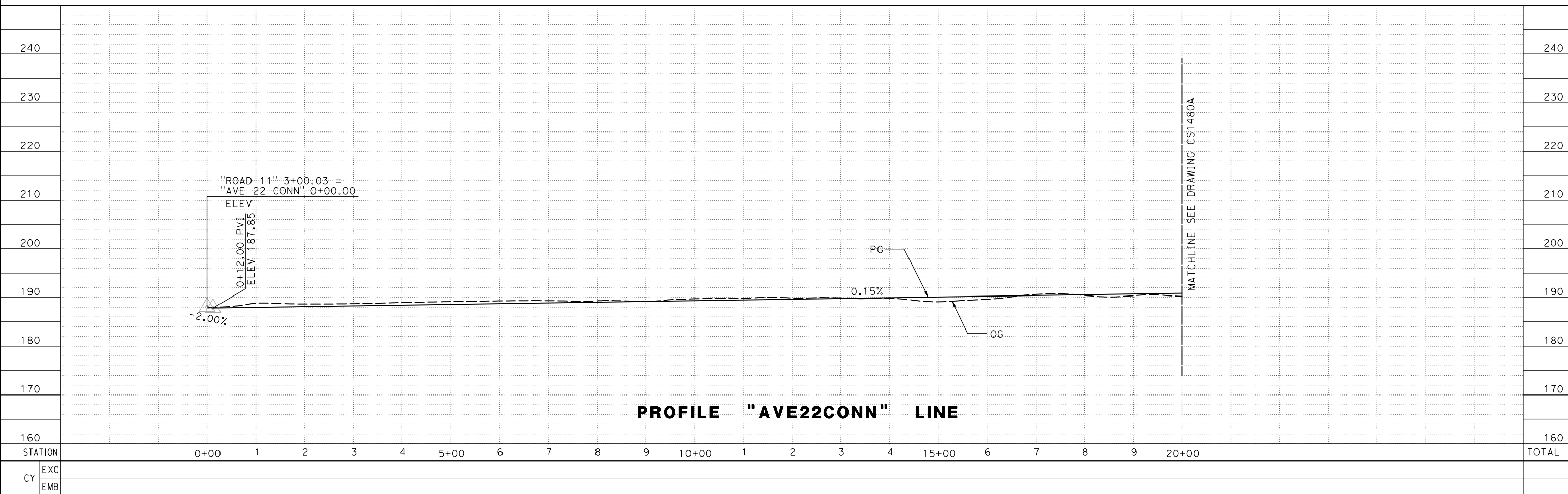
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 21 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



PLAN



PROFILE "AVE22CONN" LINE

7/20/2011 6:19:13 PM c:\pw_working\ptg\wiseb\p0039764\dms66816\JM-CR-1479A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

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SUBMITTAL
FOR INTERNAL
USE ONLY**

**NOT FOR
CONSTRUCTION**

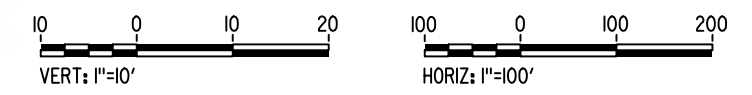
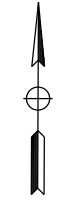
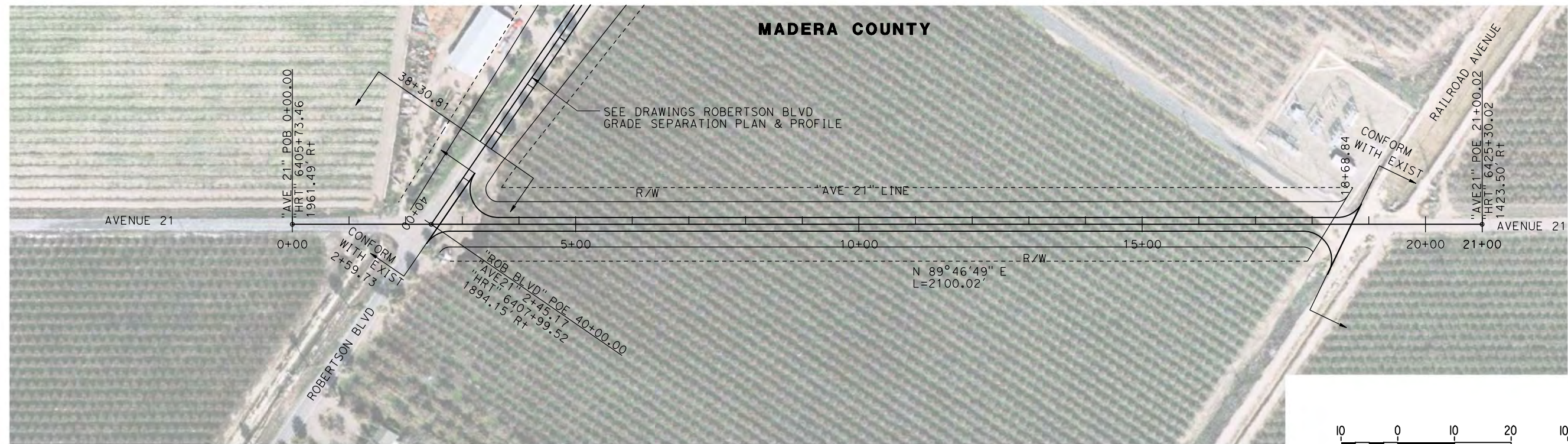


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

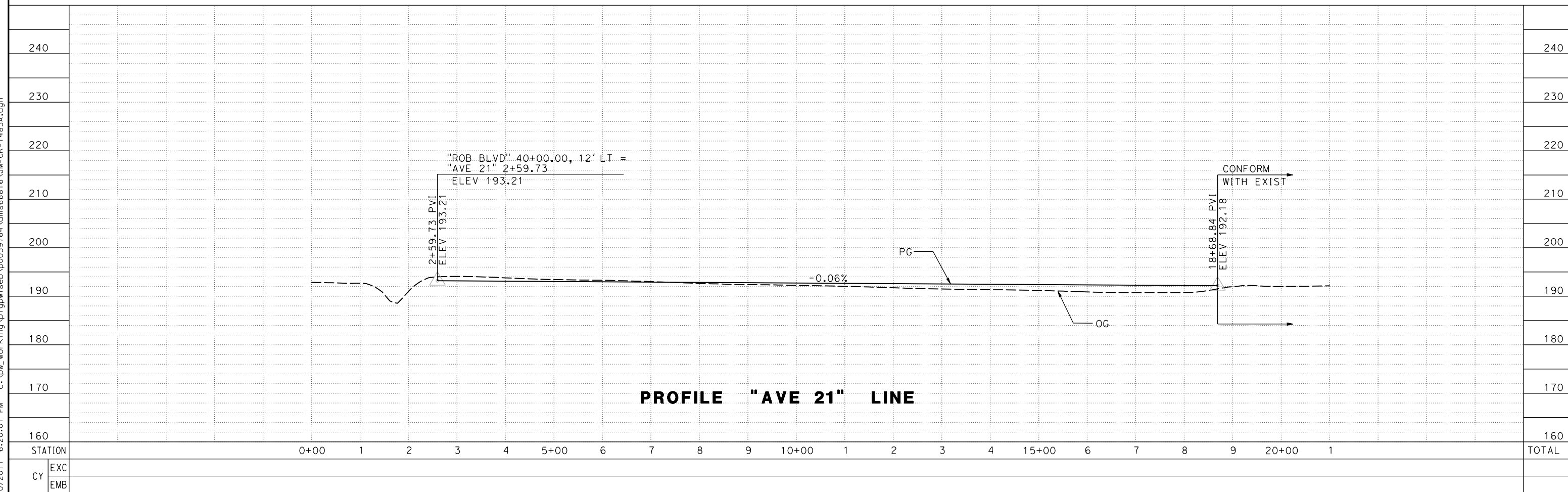
BNSF MAIN LINE
AVENUE 24/SR152/AVENUE 21
AVENUE 22 CONNECTOR TO ROAD 11
PLAN AND PROFILE

CONTRACT NO.
HSR08-05
DRAWING NO.
CR1479A
SCALE
AS SHOWN
SHEET NO.
1 OF 2

MADERA COUNTY



PLAN



PROFILE "AVE 21" LINE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

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SUBMITTAL
FOR INTERNAL
USE ONLY**

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CONSTRUCTION**



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

BNSF MAIN LINE
AVENUE 24/SR152/AVENUE 21
AVENUE 21
PLAN AND PROFILE

CONTRACT NO.
HSR08-05
DRAWING NO.
CR1483A
SCALE
AS SHOWN
SHEET NO.
1 OF 1

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