CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

FINAL

Merced to Fresno Section Project EIR/EIS

Volume III:

Section G1 – Roadway and Grade Separation Plans

UPRR/SR 99 Alternative with Ave 24 Wye

April 2012

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
				GENERAL		
		B5090-B	UPRR/SR99 - (AVE 24)	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 3
		B5091-B	UPRR/SR99 - (AVE 24)	GENERAL	INDEX OF DRAWINGS	SHEET 2 OF 3
		B5092-B	UPRR/SR99 - (AVE 24)	GENERAL	INDEX OF DRAWINGS	SHEET 3 OF 3
		B5093-B	UPRR/SR99 - (AVE 24/WC)	GENERAL	ABBREVIATIONS, SYMBOLS AND NOTES	SHEET 1 OF 1
		B5100-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 1 OF 5
		B5101-B	UPRR/SR99 - (WC)		INDEX MAP	SHEET 2 OF 5
		B5102-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 3 OF 5
		B5103-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 4 OF 5
		B5104-B	UPRR/SR99 - (WC)		INDEX MAP	SHEET 5 OF 5
		CB5100-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	KEY MAP	SHEET 1 OF 1
		CB5101-B	UPRR/SR99 MAINLINE/WYE - (AVE 24)	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	KEY MAP	SHEET 1 OF 1
		CB5102-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	KEY MAP	SHEET 1 OF 1
		CB5103-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 15	KEY MAP	SHEET 1 OF 1
		CB5104-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 16	KEY MAP	SHEET 1 OF 1
		CB5105-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	KEY MAP	SHEET 1 OF 1
		CB5106-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	KEY MAP	SHEET 1 OF 1
		CB5107-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 26	KEY MAP	SHEET 1 OF 1
		CB5108-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - CROSS ROAD	KEY MAP	SHEET 1 OF 1
		CB5109-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION - ROAD 10 ALT 1	KEY MAP	SHEET 1 OF 1
		CB5110-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION-ROAD 10 ALONG EXIST ALT 2	KEY MAP	SHEET 1 OF 1
		CB5111-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	KEY MAP	SHEET 1 OF 1
		CB5112-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	KEY MAP	SHEET 1 OF 1
		CB5113-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	KEY MAP	SHEET 1 OF 1
		CB5114-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	KEY MAP	SHEET 1 OF 1
		CB5115-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	KEY MAP	SHEET 1 OF 1
		CB5116-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	KEY MAP	SHEET 1 OF 1
		CB5117-B	UPRR/SR99 MERCED DO - (WC)	GRADE SEPARATION - CROSS ROAD	KEY MAP	SHEET 1 OF 1
		CB5118-B	UPRR/SR99 WYE/MERCED DO - (WC)	UNDERPASS - AVENUE 26 ALT 2	KEY MAP	SHEET 1 OF 1
		CT5090-B	UPRR/SR99 - (AVE 24)	GRADE SEPARATIONS	TYPICAL CROSS SECTIONS	SHEET 1 OF 1
		CT5091-B	UPRR/SR99 - (AVE 24/WC)		GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN	SHEET 1 OF 1
				LAYOUT		
13		CT5100-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	LAYOUT	SHEET 1 OF 4
13		CT5101-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	LAYOUT	SHEET 2 OF 4
13		CT5102-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	LAYOUT	SHEET 3 OF 4
13		CT5103-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	LAYOUT	SHEET 4 OF 4
12		CT5104-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 1 OF 4
12		CT5105-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 2 OF 4
12		CT5106-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 3 OF 4
12		CT5107-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 4 OF 4
11		CT5108-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 1 OF 3
11		CT5109-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 2 OF 3
11		CT5110-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 3 OF 3
10		CT5111-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 1 OF 3
10		CT5112-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 2 OF 3
10		CT5113-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 3 OF 3
9		CT5114-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 1 OF 4
9		CT5115-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 2 OF 4
9		CT5116-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 3 OF 4
9		CT5117-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 4 OF 4
8		CT5118-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 1 OF 5
8		CT5119-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 2 OF 5
8		CT5120-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 3 OF 5
8		CT5121-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 4 OF 5
8		CT5122-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 5 OF 5
7		CT5123-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 1 OF 3
7		CT5124-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 2 OF 3
7		CT5125-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 26	LAYOUT	SHEET 3 OF 3
6		CT5126-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 1 OF 3
6		CT5127-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 2 OF 3
6		CT5128-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 3 OF 3
32		CT5129-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION - ROAD 10 ALT 1	LAYOUT	SHEET 1 OF 3
32		CT5130-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION - ROAD 10 ALT 1	LAYOUT	SHEET 2 OF 3
32		CT5131-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION - ROAD 10 ALT 1	LAYOUT	SHEET 3 OF 3
31		CT5132-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 1 OF 5
31		CT5133-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 2 OF 5
31		CT5134-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 3 OF 5
31		CT5135-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 4 OF 5
31		CT5136-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 5 OF 5
30		CT5138-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 1 OF 4

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24)
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. B5090-B
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
30		CT5139-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 2 OF 4
30		CT5140-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 3 OF 4
30		CT5141-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 4 OF 4
29		CT5142-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 1 OF 4
29		CT5143-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 2 OF 4
29		CT5144-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 3 OF 4
29		CT5145-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 4 OF 4
28		CT5146-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 1 OF 4
28		CT5147-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 2 OF 4
28		CT5148-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 3 OF 4
28		CT5149-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	LAYOUT	SHEET 4 OF 4
27		CT5151-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 1 OF 12
27		CT5152-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 2 OF 12
27		CT5153-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 3 OF 12
27		CT5154-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 4 OF 12
27		CT5155-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 5 OF 12
27		CT5156-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 6 OF 12
27		CT5157-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 7 OF 12
27		CT5158-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 8 OF 12
27		CT5159-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 9 OF 12
27		CT5160-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 10 OF 12
27		CT5161-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 11 OF 12
27		CT5162-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 12 OF 12
26		CT5168-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 1 OF 10
26		CT5169-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 2 OF 10
26		CT5170-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 3 OF 10
26		CT5171-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 4 OF 10
26		CT5172-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 5 OF 10
26		CT5173-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 6 OF 10
26		CT5174-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 7 OF 10
26		CT5175-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 8 OF 10
26		CT5176-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 9 OF 10
26		CT5177-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 10 OF 10
25		CT5179-B	UPRR/SR99 MERCED DO - (WC)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 1 OF 3
25		CT5180-B	UPRR/SR99 MERCED DO - (WC)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 2 OF 3
25		CT5181-B	UPRR/SR99 MERCED DO - (WC)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 3 OF 3
26		CT5187-B	UPRR/SR99 WYE/MERCED DO - (WC)	UNDERPASS - AVENUE 26 ALT 2	LAYOUT	SHEET 1 OF 3
26		CT5188-B	UPRR/SR99 WYE/MERCED DO - (WC)	UNDERPASS - AVENUE 26 ALT 2	LAYOUT	SHEET 2 OF 3
26		CT5189-B	UPRR/SR99 WYE/MERCED DO - (WC)	UNDERPASS - AVENUE 26 ALT 2	LAYOUT	SHEET 3 OF 3
13		CT5190-B	UPRR/SR99 MAINLINE/WYE - (AVE 24)	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	LAYOUT	SHEET 1 OF 3
13		CT5191-B	UPRR/SR99 MAINLINE/WYE - (AVE 24)	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	LAYOUT	SHEET 2 OF 3
13		CT5192-B	UPRR/SR99 MAINLINE/WYE - (AVE 24)	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	LAYOUT	SHEET 3 OF 3
32		CT5193-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION-ROAD 10 ALONG EXIST ALT 2	LAYOUT	SHEET 1 OF 3
32		CT5194-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION-ROAD 10 ALONG EXIST ALT 2	LAYOUT	SHEET 2 OF 3
32		CT5195-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION-ROAD 10 ALONG EXIST ALT 2	LAYOUT	SHEET 3 OF 3
64		CT0149-A	UPRR MERCED CONNECTION - (AVE 24/WC)	GRADE SEPARATION - G STREET	LAYOUT	SHEET 1 OF 1
				PROFILE		
		CT5800-B	UPRR/SR99 - (AVE 24/WC)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 1 OF 4
		CT5801-B	UPRR/SR99 - (AVE 24/WC)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 2 OF 4
		CT5802-B	UPRR/SR99 - (AVE 24/WC)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		CT5803-B	UPRR/SR99 - (AVE 24/WC)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
13		CT6100-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	PROFILE	SHEET 1 OF 4
13		CT6101-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	PROFILE	SHEET 2 OF 4
13		CT6102-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	PROFILE	SHEET 3 OF 4
13		CT6103-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	PROFILE	SHEET 4 OF 4
12		CT6104-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 1 OF 4
12		CT6105-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 2 OF 4
12		CT6106-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 3 OF 4
12		CT6107-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 4 OF 4
11		CT6108-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 1 OF 3
11		CT6109-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 2 OF 3
11		CT6110-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 3 OF 3
10		CT6111-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 1 OF 3
10		CT6112-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 2 OF 3
10		CT6113-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 3 OF 3
9		CT6114-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 1 OF 4
9		CT6115-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 2 OF 4
9		CT6116-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 3 OF 4

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 - (AVE 24)
GENERAL
INDEX OF DRAWINGS
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. B5091-B
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
9		CT6117-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 4 OF 4
8		CT6118-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 1 OF 5
8		CT6119-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 2 OF 5
8		CT6120-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 3 OF 5
8		CT6121-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 4 OF 5
8		CT6122-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 5 OF 5
7		CT6123-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 1 OF 3
7		CT6124-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 2 OF 3
7		CT6125-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 3 OF 3
6		CT6126-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - CROSS RD	PROFILE	SHEET 1 OF 3
6		CT6127-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - CROSS RD	PROFILE	SHEET 2 OF 3
6		CT6128-B	UPRR/SR99 WYE - (AVE 24)	GRADE SEPARATION - CROSS RD	PROFILE	SHEET 3 OF 3
32		CT6129-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION - ROAD 10 ALT 1	PROFILE	SHEET 1 OF 3
32		CT6130-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION - ROAD 10 ALT 1	PROFILE	SHEET 2 OF 3
32		CT6131-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION - ROAD 10 ALT 1	PROFILE	SHEET 3 OF 3
31		CT6132-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 1 OF 5
31		CT6133-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 2 OF 5
31		CT6134-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 3 OF 5
31		CT6135-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 4 OF 5
31		CT6136-B	UPRR/SR99 MAINLINE/MERCED DO - (WC)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 5 OF 5
30		CT6138-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 1 OF 4
30		CT6139-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 2 OF 4
30		CT6140-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 3 OF 4
30		CT6141-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 4 OF 4
29		CT6142-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 1 OF 4
29		CT6143-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 2 OF 4
29		CT6144-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 3 OF 4
29		CT6145-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 4 OF 4
28		CT6146-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 1 OF 4
28		CT6147-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 2 OF 4
28		CT6148-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 3 OF 4
28		CT6149-B	UPRR/SR99 MAINLINE DO - (WC)	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 4 OF 4
27		CT6151-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 1 OF 13
27		CT6152-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 2 OF 13
27		CT6153-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 3 OF 13
27		CT6154-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 4 OF 13
27		CT6155-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 5 OF 13
27		CT6156-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 6 OF 13
27		CT6157-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 7 OF 13
27		CT6158-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 8 OF 13
27		CT6159-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 9 OF 13
27		CT6160-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 10 OF 13
27		CT6161-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 11 OF 13
27		CT6162-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 12 OF 13
27		CT6163-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 13 OF 13
26		CT6167-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 1 OF 10
26		CT6168-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 2 OF 10
26		CT6169-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 3 OF 10
26		CT6170-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 4 OF 10
26		CT6171-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 5 OF 10
26		CT6172-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 6 OF 10
26		CT6173-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 7 OF 10
26		CT6174-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 8 OF 10
26		CT6175-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 9 OF 10
26		CT6176-B	UPRR/SR99 WYE/MERCED DO - (WC)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 10 OF 10
25		CT6177-B	UPRR/SR99 MERCED DO - (WC)	GRADE SEPARATION - CROSS ROAD	PROFILE	SHEET 1 OF 3
25		CT6178-B	UPRR/SR99 MERCED DO - (WC)	GRADE SEPARATION - CROSS ROAD	PROFILE	SHEET 2 OF 3
25		CT6179-B	UPRR/SR99 MERCED DO - (WC)	GRADE SEPARATION - CROSS ROAD	PROFILE	SHEET 3 OF 3
26		CT6185-B	UPRR/SR99 WYE/MERCED DO - (WC)	UNDERPASS - AVENUE 26 ALT 2	PROFILE	SHEET 1 OF 3
26		CT6186-B	UPRR/SR99 WYE/MERCED DO - (WC)	UNDERPASS - AVENUE 26 ALT 2	PROFILE	SHEET 2 OF 3
26		CT6187-B	UPRR/SR99 WYE/MERCED DO - (WC)	UNDERPASS - AVENUE 26 ALT 2	PROFILE	SHEET 3 OF 3
13		CT6188-B	UPRR/SR99 MAINLINE/WYE - (AVE 24)	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	PROFILE	SHEET 1 OF 3
13		CT6189-B	UPRR/SR99 MAINLINE/WYE - (AVE 24)	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	PROFILE	SHEET 2 OF 3
13		CT6190-B	UPRR/SR99 MAINLINE/WYE - (AVE 24)	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	PROFILE	SHEET 3 OF 3
32		CT6191-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION-ROAD 10 ALONG EXIST ALT 2	PROFILE	SHEET 1 OF 3
32		CT6192-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION-ROAD 10 ALONG EXIST ALT 2	PROFILE	SHEET 2 OF 3
32		CT6193-B	UPRR/SR99 MAINLINE/WYE - (WC)	GRADE SEPARATION-ROAD 10 ALONG EXIST ALT 2	PROFILE	SHEET 3 OF 3
64		CT1149-A	UPRR MERCED CONNECTION - (AVE 24/WC)	GRADE SEPARATION - G STREET	PROFILE	SHEET 1 OF 1

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24)
GENERAL
INDEX OF DRAWINGS
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. B5092-B
SCALE NONE
SHEET NO. ### OF ###

ABBREVIATIONS

ALIGNMENT

HORIZONTAL

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

VERTICAL

BVC	BEGIN OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
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

ALT	ALTERNATIVE
AVE	AVENUE
BB	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
℄	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EB	END BRIDGE
ELEV	ELEVATION
EQ	EQUATION
ES	EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	EXISTING
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT
HST	HIGH SPEED TRAIN
HWY	HIGHWAY
IC	INTERCHANGE
IN	INCH
L	LENGTH
LT	LEFT
MBGR	METAL BEAM GUARD RAIL
ML	MAINLINE
MPH	MILES PER HOUR
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
No, NO	NUMBER
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL, FG	PROFILE GRADE LINE
RET	RETAINING
RR	RAILROAD
RD	ROAD
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTH BOUND
SHLD	SHOULDER
SR	STATE ROUTE
SHT	SHEET
SS	SANITARY SEWER
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
STD	STANDARD
SD	STORM DRAIN
STRUCT, STR	STRUCTURE
T	TANGENT
TEL	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER OPTIC
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS

	MATCH LINE
	HST TRACK
	PROPOSED HST RIGHT-OF-WAY
	FREIGHT/PASSENGER TRACK - EXISTING
	EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES
	RETAINING WALLS
	ORIGINAL GROUND
G16	GAS LINE (16")
TC	COMMUNICATION LINE
W	WATER LINE
FO	FIBER OPTIC LINE
E	ELECTRICAL LINE
	ELECTRICAL TOWER
S	SEWER LINE
SD	STORM DRAIN LINE
O	FUEL LINE
TC	TELEPHONE LINE
P12	PETROLEUM LINE (12")
(OH)	OVERHEAD
	NORTH ARRROW
	PVI
	MBGR
	DIRECTION OF TRAVEL
250	PROPOSED CONTOUR

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IN CHARGE A. BOONE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24/WC)
GENERAL
ABBREVIATIONS, SYMBOLS AND NOTES
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. B5093-B
SCALE NO SCALE
SHEET NO. ### OF ###

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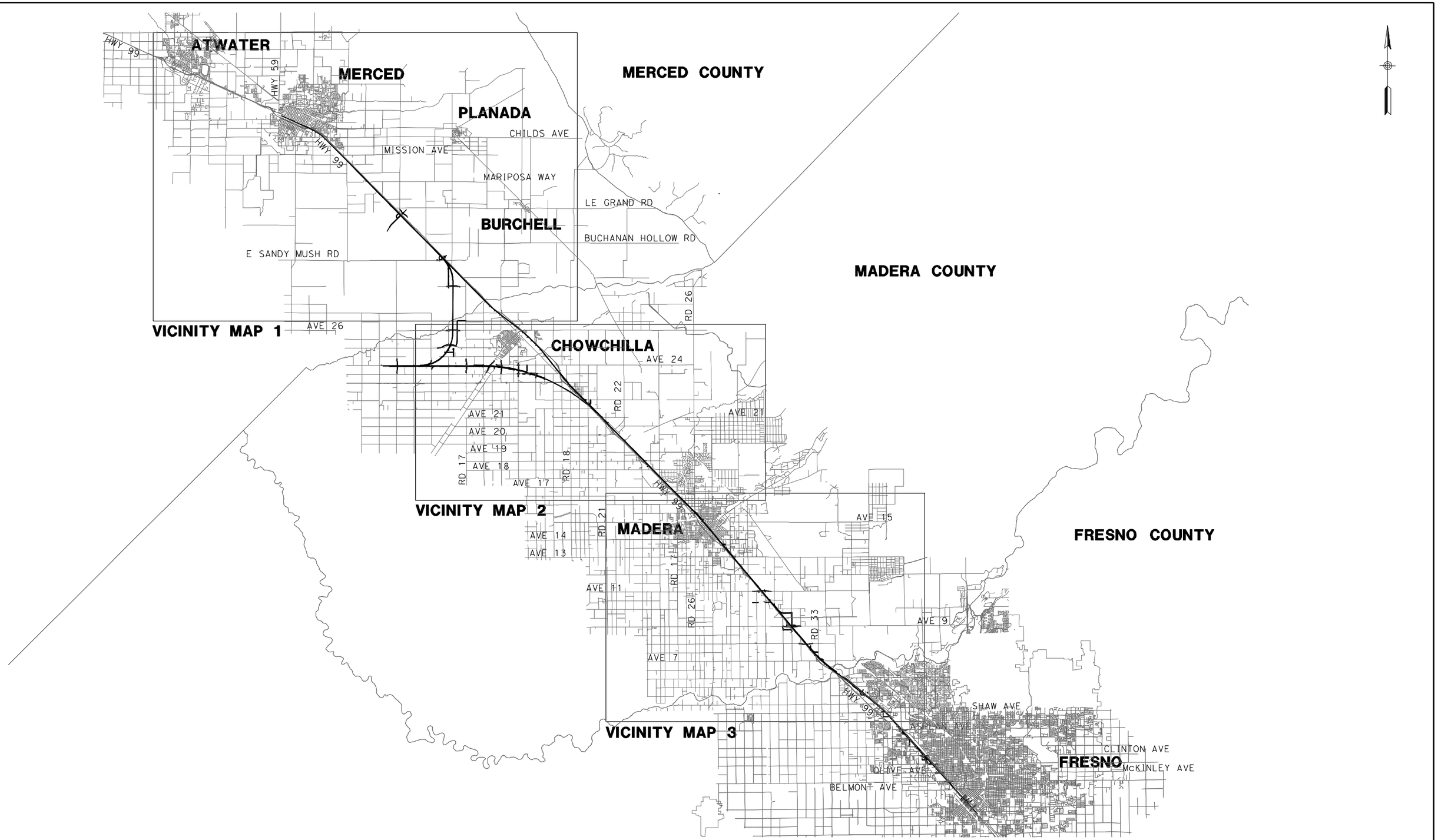

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CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24)

INDEX MAP
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B5100-B
SCALE NO SCALE
SHEET NO. ### OF ###

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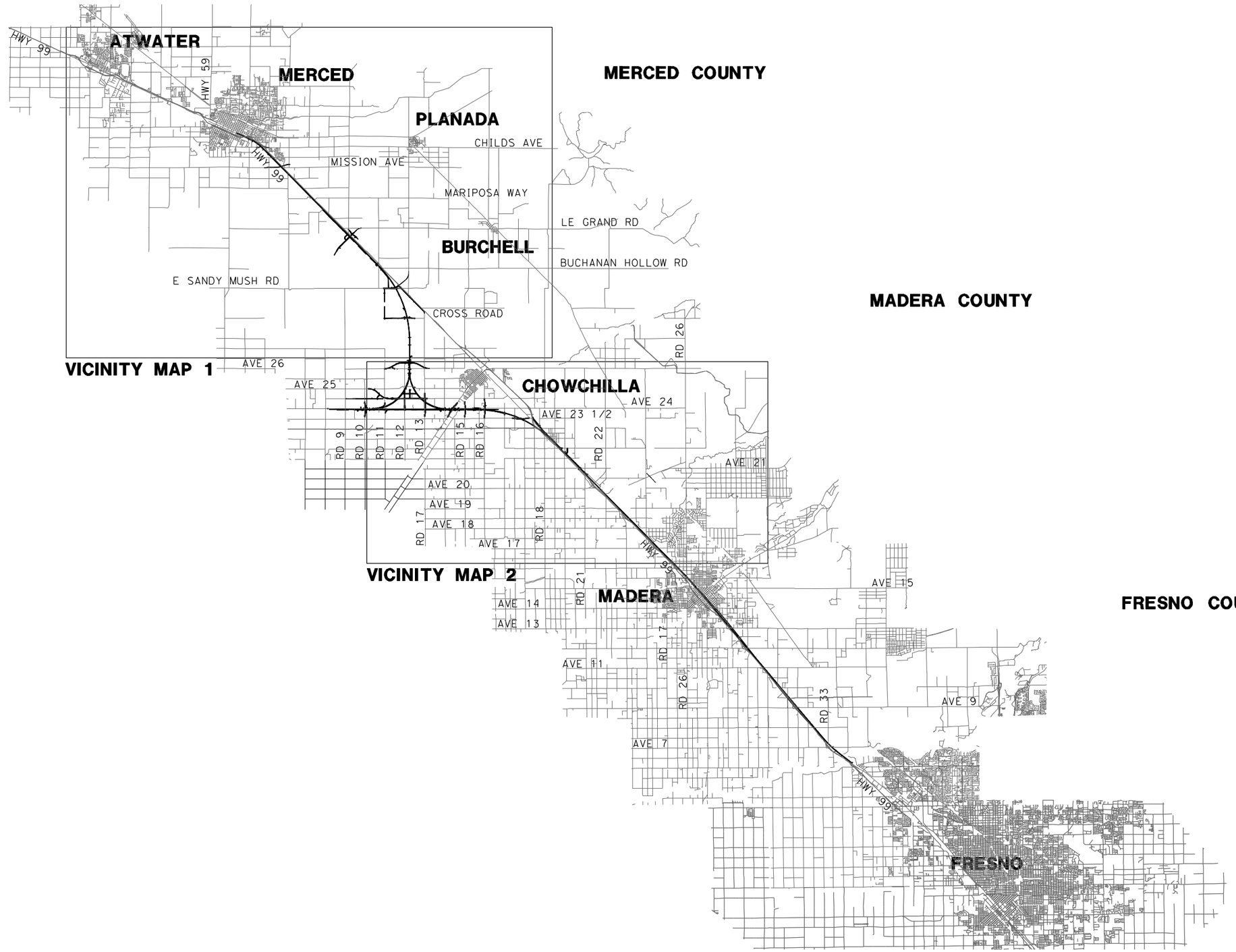

VICINITY MAP 1

VICINITY MAP 2

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (WC)

INDEX MAP
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B5101-B
SCALE NO SCALE
SHEET NO. ### OF ###

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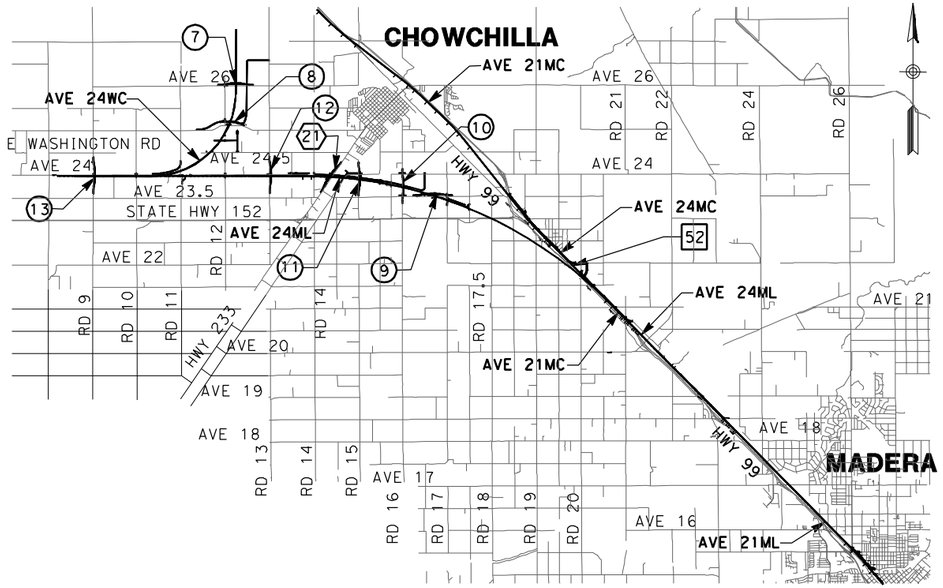
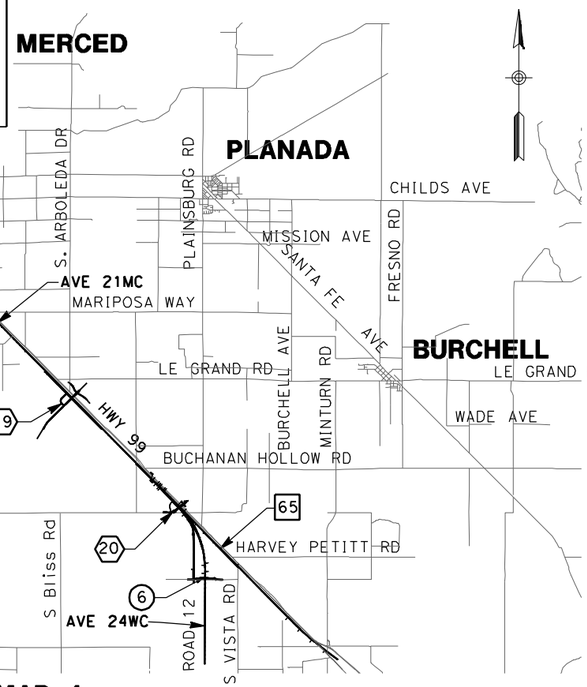
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(6)	GRADE SEPARATION - CROSS RD	CT5126-B - CT5128-B	ST1127
(7)	GRADE SEPARATION - AVENUE 26	CT5123-B - CT5125-B	ST1126
(8)	GRADE SEPARATION - AVENUE 25	CT5118-B - CT5122-B	ST1125
(9)	GRADE SEPARATION - AVENUE 23 1/2	CT5114-B - CT5117-B	ST1124
(10)	GRADE SEPARATION - ROAD 16	CT5111-B - CT5113-B	ST1123
(11)	GRADE SEPARATION - ROAD 15	CT5108-B - CT5110-B	ST1122
(12)	GRADE SEPARATION - ROAD 13	CT5104-B - CT5107-B	ST1138
(13)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	CT5100-B - CT5103-B	ST1120
	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	CT5190-B - CT5192-B	ST1120
(64)	GRADE SEPARATION - G STREET	CT0149-A	ST1180
⟨14⟩	AVENUE 8 - OVERCROSSING	CT7100-B - CT7102-B	ST1107
⟨15⟩	AVENUE 9 - INTERCHANGE	CT7103-B - CT7109-B	ST1108 - ST1109
⟨16⟩	AVENUE 11 - OVERCROSSING	CT7110-B - CT7114-B	ST1110
⟨19⟩	GRADE SEPARATION - LE GRAND INTERCHANGE	CT7122-B - CT7128-B	ST1114
⟨20⟩	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	CT7119-B - CT7121-B	ST1142
⟨21⟩	GRADE SEPARATION - ROBERTSON BLVD (SR233) ALT 1	CT7115-B - CT7118-B	ST1141
	UNDERPASS - ROBERTSON BLVD (SR233) ALT 2	CT7137-B - CT7139-B	

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
[40]	ROAD 33	CR9100-B
[41]	PROPOSED ROAD	CR9101-B
[42]	ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9	CR9102-B
[43]	ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9	CR9103-B
	ROAD 31 1/2	CR9104-B
[44]	ROAD 30 1/2	CR9105-B - CR9106-B
[45]	FRONTAGE ROAD	CR9107-B
	ROAD 30 AT AVENUE 11	CR9108-B - CR9109-B
[46]	S. KNOX ST	CR9110-B
[48]	SHARON BLVD & E ST	CR9111-B
[47]	N. E ST AND S. E ST	CR9112-B
[52]	FAIRMEAD BLVD	CR9113-B - CR9116-B
[65]	PROPOSED WEST FRONTAGE ROAD	CR9117-B - CR9118-B



VICINITY MAP 2



VICINITY MAP 1

VICINITY MAP 3

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

9000 0 9000 18000

GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

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CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPPR/SR99 - (AVE 24)

INDEX MAP
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B5102-B
SCALE NO SCALE
SHEET NO. ### OF ###

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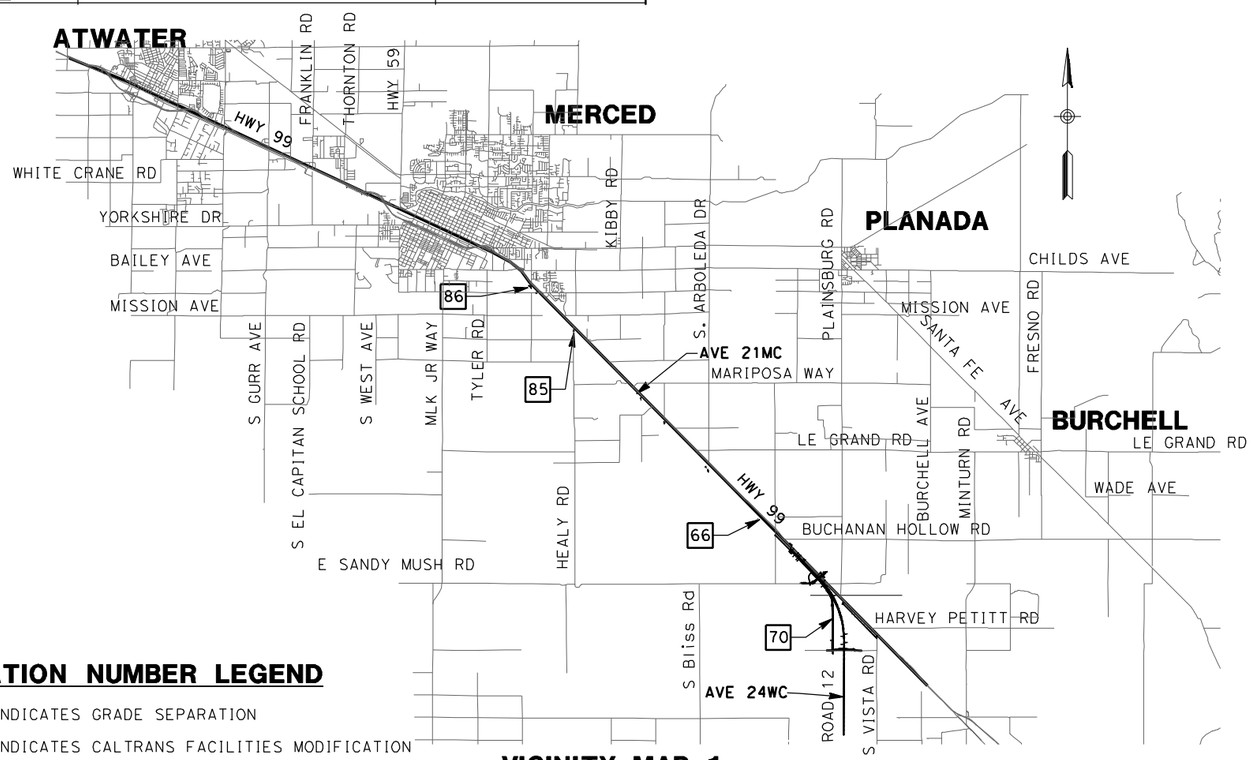
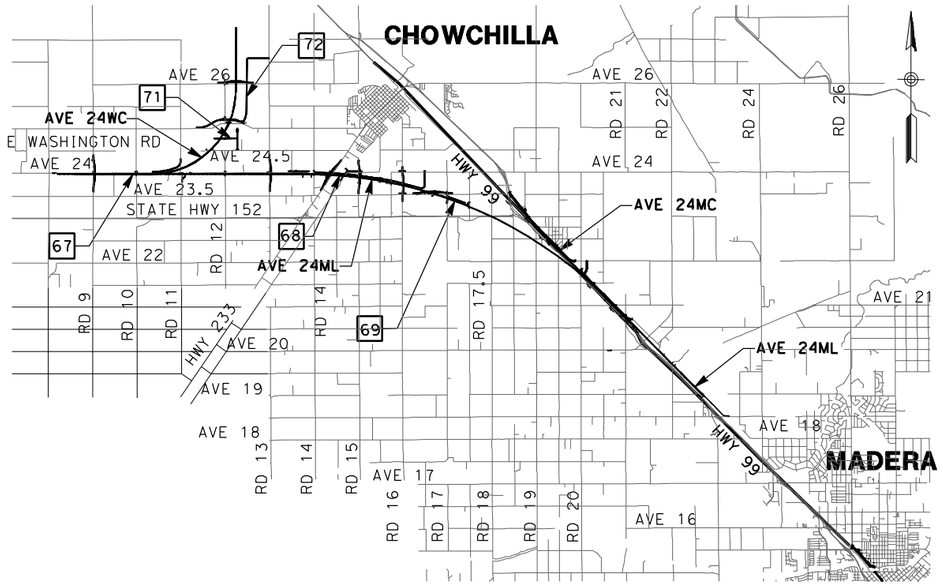
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
66	PROPOSED WEST FRONTAGE ROAD	CR9119-B - CR9125-B
67	SOUTH FRONTAGE ROAD	CR9130-B - CR9131-B
	PROPOSED AVENUE 24 WYE	CR9132-B
	SOUTH FRONTAGE ROAD	CR9133-B - CR9134-B
	NORTH AND SOUTH FRONTAGE ROAD	CR9135-B
68	NORTH AND SOUTH FRONTAGE ROAD	CR9136-B - CR9138-B
69	NORTH FRONTAGE ROAD & ROAD 16 1/2	CR9139-B - CR9140-B
	NORTH & SOUTH FRONTAGE ROAD AVENUE 24	CR9141-B - CR9142-B
70	ROAD 12	CR9143-B
71	AVENUE 24 1/2	CR9144-B
	ROAD 12 1/4 & AVENUE 24 1/2	CR9145-B
	ROAD 12 1/4	CR9146-B
72	ROAD 12 1/2	CR9147-B
	ROAD 12 1/2 & AVENUE 26 1/2	CR9148-B
	AVENUE 26 1/2	CR9149-B
85	HEALY ROAD	CR9176-B
86	GERARD AVENUE/CALTRANS FRONTAGE ROAD	CR9177-B



VICINITY MAP 1



VICINITY MAP 2

LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- ⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION
- [X] - INDICATES LOCAL ROAD RELOCATION

0 9000 18000
GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 - (AVE 24)

INDEX MAP
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B5103-B
SCALE NO SCALE
SHEET NO. ### OF ###

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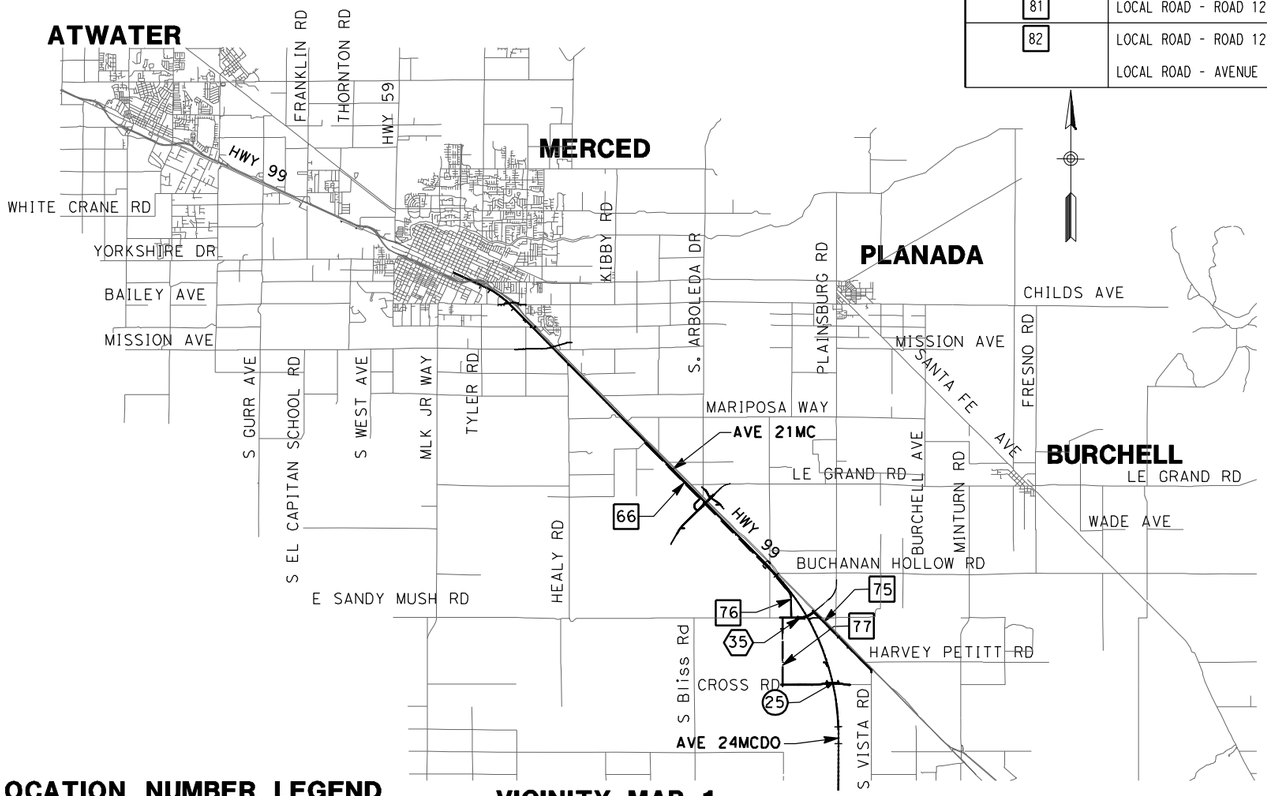
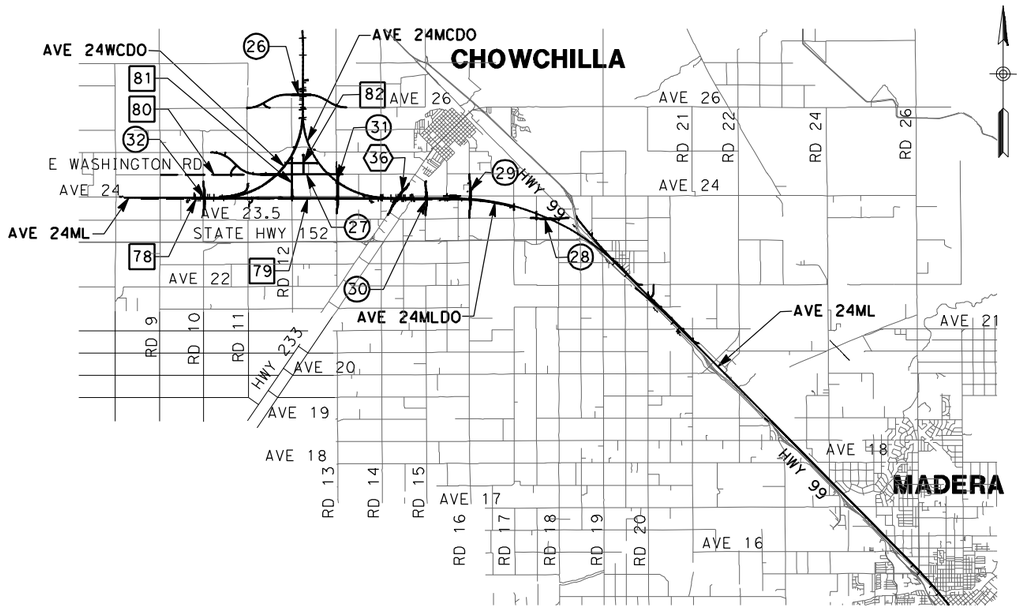
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(25)	GRADE SEPARATION - CROSS ROAD	CT5179-B - CT5181-B	ST1136
(26)	GRADE SEPARATION - AVENUE 26 ALT 1	CT5168-B - CT5177-B	ST1135
	UNDERPASS - AVENUE 26 ALT 2	CT5187-B - CT5189-B	
(27)	GRADE SEPARATION - AVENUE 25	CT5151-B - CT5162-B	ST1133 & ST1134
(28)	GRADE SEPARATION - AVENUE 23 1/2	CT5146-B - CT5149-B	ST1132
(29)	GRADE SEPARATION - ROAD 16	CT5142-B - CT5145-B	ST1131
(30)	GRADE SEPARATION - ROAD 15	CT5138-B - CT5141-B	ST1130
(31)	GRADE SEPARATION - ROAD 13	CT5132-B - CT5136-B	ST1129 & ST1137
(32)	GRADE SEPARATION - ROAD 10 ALT 1	CT5129-B - CT5131-B	ST1128
	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	CT5193-B - CT5195-B	ST1128
⟨35⟩	SANDY MUSH RD INTERCHANGE	CT7133-B - CT7136-B	ST1142
⟨36⟩	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	CT7129-B - CT7132-B	ST1143
	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	CT7140-B - CT7142-B	

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
[66]	PROPOSED WEST FRONTAGE ROAD	CR9172-B - CR9175-B
[75]	LOCAL ROAD - WEST FRONTAGE ROAD	CR9126-B - CR9127-B
[76]	LOCAL ROAD - SANDY MUSH ROAD	CR9152-B
	LOCAL ROAD - WEST FRONTAGE ROAD	CR9128-B - CR9129-B
[77]	LOCAL ROAD - ROAD 11	CR9150-B - CR9151-B
	LOCAL ROAD - CROSS ROAD	CR9153-B
[78]	SOUTH FRONTAGE ROAD	CR9159-B
	AVENUE 24	CR9160-B
[79]	SOUTH FRONTAGE ROAD	CR9161-B - CR9163-B
	LOCAL ROAD - FRONTAGE ROAD	CR9164-B
	LOCAL ROAD - FRONTAGE ROAD & AVE 24	CR9165-B
	LOCAL ROAD - FRONTAGE ROAD	CR9166-B
[80]	LOCAL ROAD - AVENUE 24 1/2	CR9154-B - CR9155-B
[81]	LOCAL ROAD - ROAD 12	CR9156-B
[82]	LOCAL ROAD - ROAD 12 1/2 & AVE 24 3/4	CR9157-B
	LOCAL ROAD - AVENUE 24 3/4	CR9158-B



VICINITY MAP 1



VICINITY MAP 2

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

9000 0 9000 18000

GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY A. TRINH
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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15% DESIGN SUBMITTAL

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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
UPPR/SR99 - (WC)

INDEX MAP
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B5104-B
SCALE NO SCALE
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheetpackage 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Index Map\B5104-B.dgn 1/5/2012 1:28:57 PM ReyesCl

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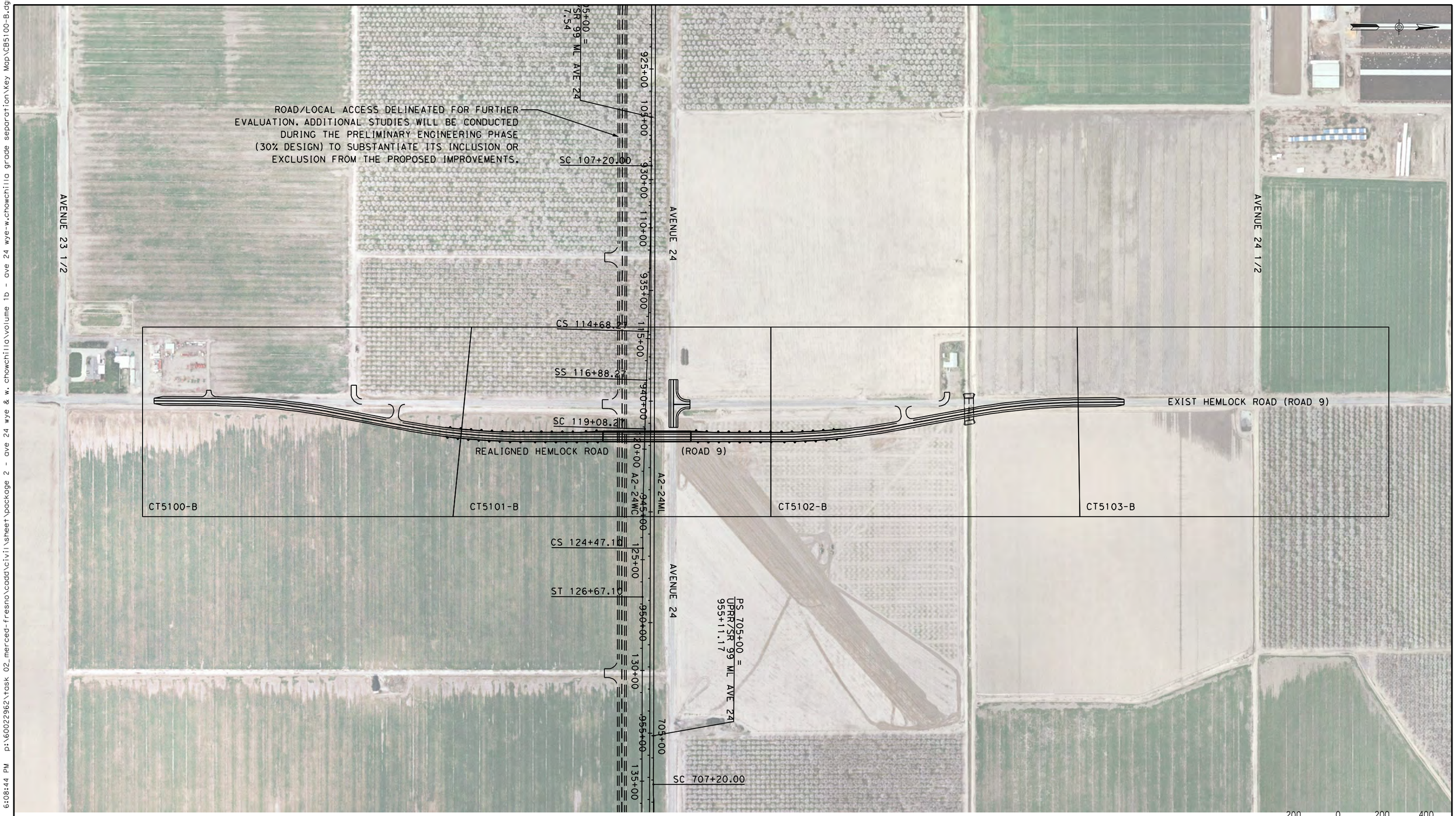

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DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5100-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

AVENUE 23 1/2

AVENUE 24

AVENUE 24 1/2

PROPOSED HEMLOCK ROAD (ROAD 9)

EXIST HEMLOCK ROAD (ROAD 9)

PS 705+00 = UPRR/SR 99 ML AVE 24 955+11.17

SC 107+20.00

CS 114+68.27

SS 116+88.27

SC 119+08.27

CS 124+47.10

ST 126+67.10

A2-24ML

A2-24WC

SC 707+20.00

925+00 930+00 935+00 940+00 945+00 950+00 955+00

100+00 110+00 115+00 120+00 125+00 130+00 135+00

705+00

CT5190-B CT5191-B CT5192-B

200 0 200 400

1"=200'

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24)
GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5101-B
SCALE AS SHOWN
SHEET NO. ### OF ###

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5102-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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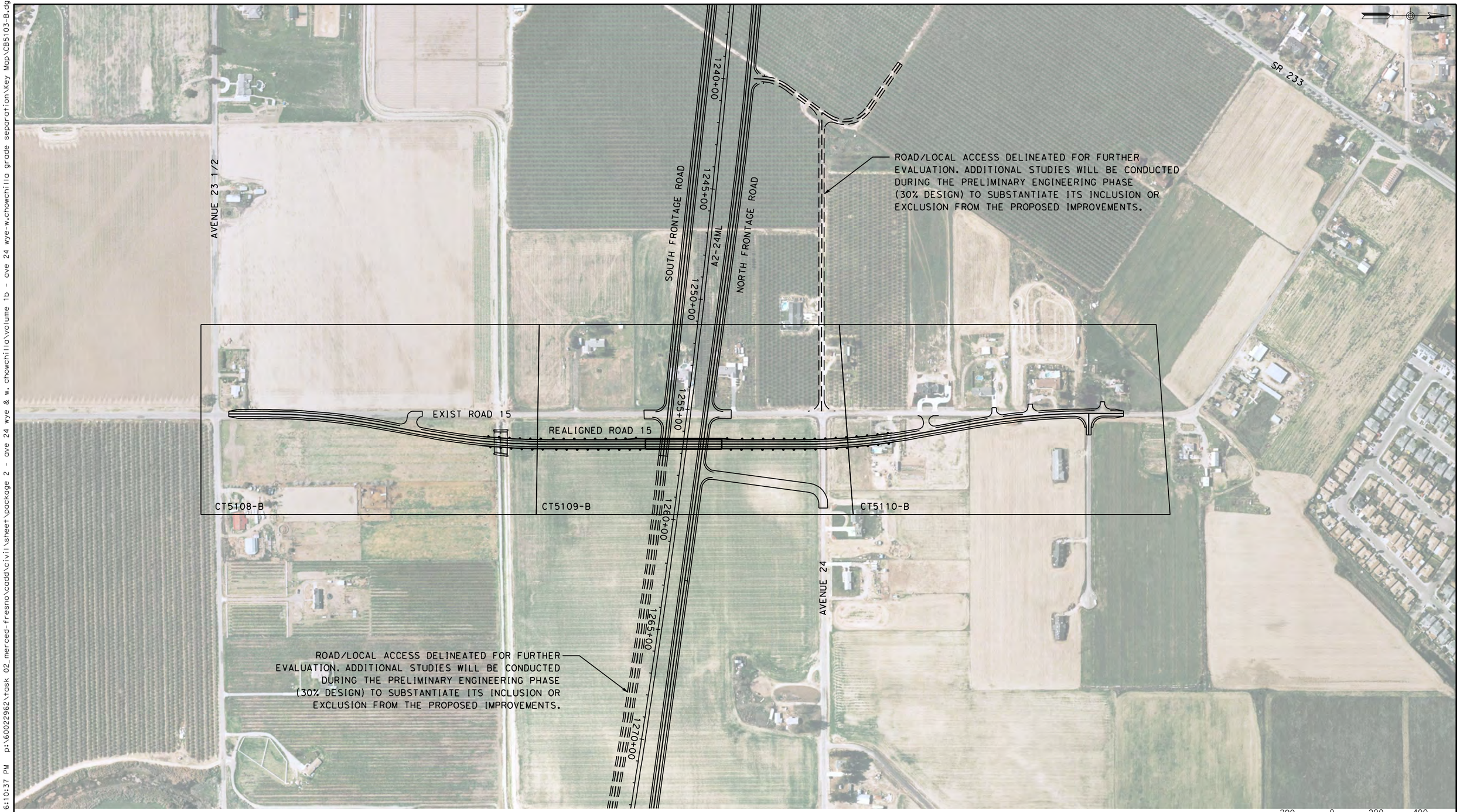

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 15
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5103-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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ROAD 15 3/4

1290+00

1295+00

PROPOSED NORTH FRONTAGE ROAD

1300+00

42'-24"ML

1305+00

EXIST ROAD 16

REALIGNED ROAD 16

0+00

CT5111-B

CT5112-B

CT5113-B

1315+00

AVENUE 23 1/2

AVENUE 24

1320+00

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

1325+00

200 0 200 400

1"=200'

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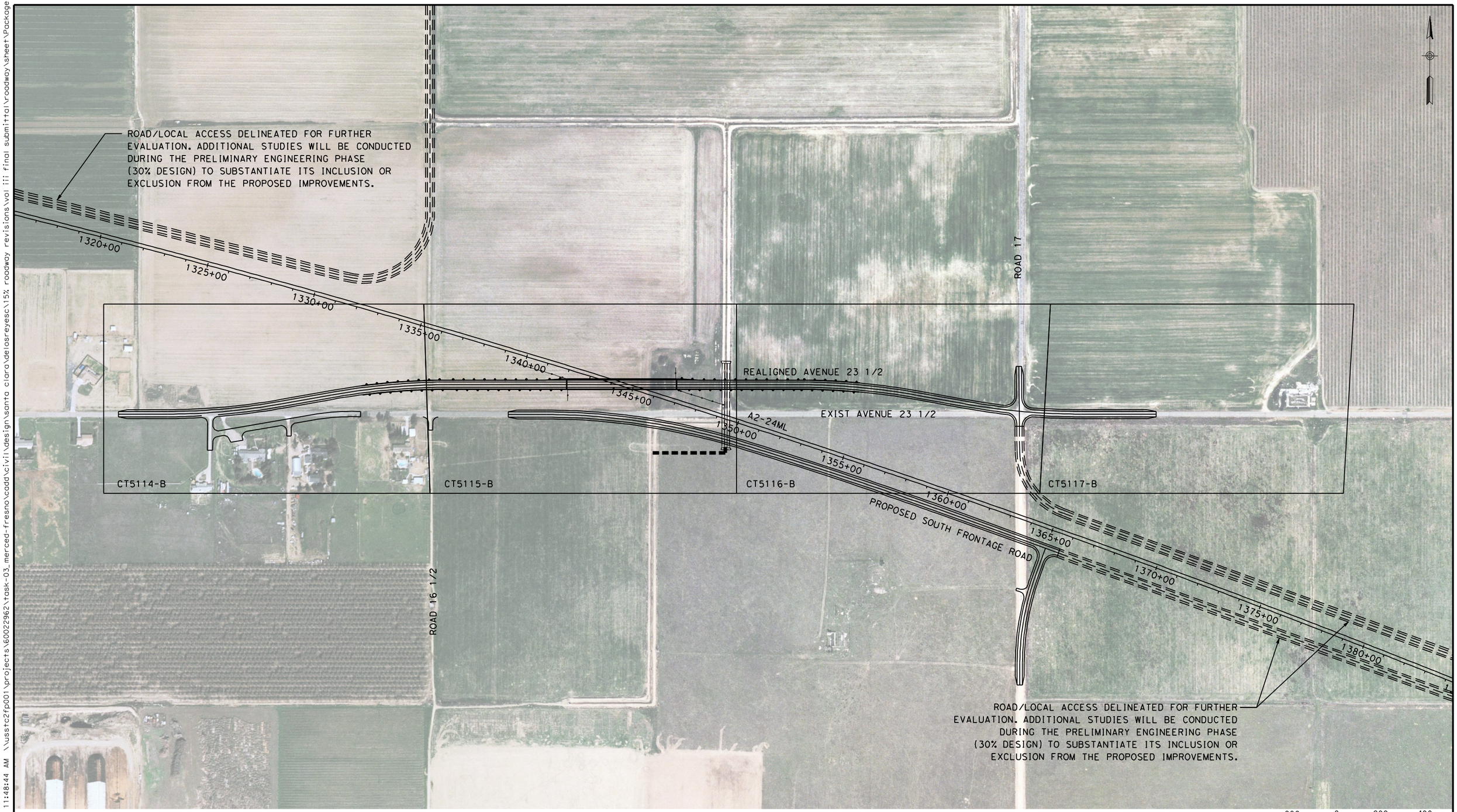
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 16
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5104-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5105-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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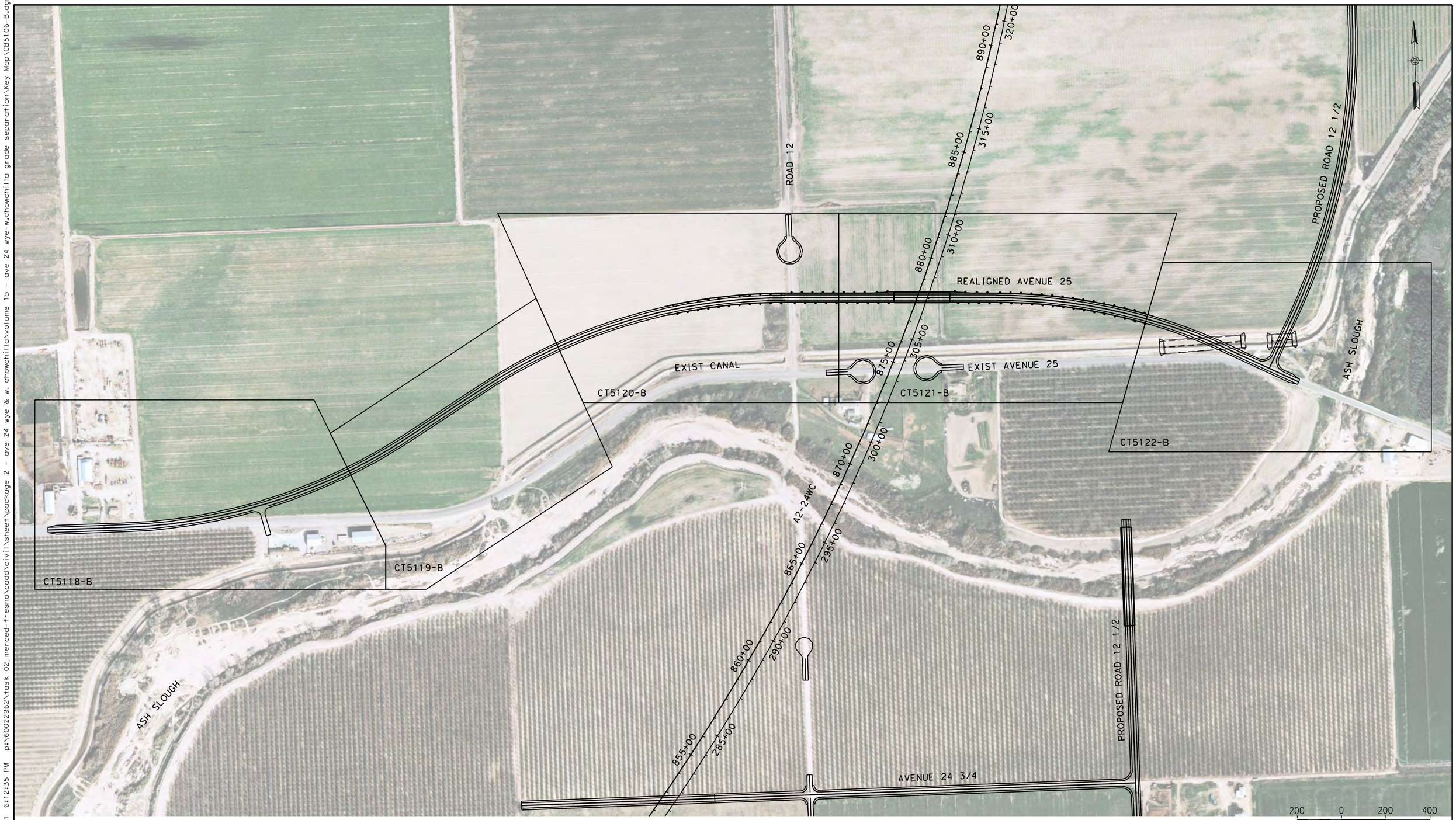

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
KEY MAP
SHEET 1 OF 1

CONTRACT NO.: HSR06-007
DRAWING NO.: CB5106-B
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SHEET NO.: ### OF ###

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
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UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 26
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5107-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - CROSS ROAD
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5108-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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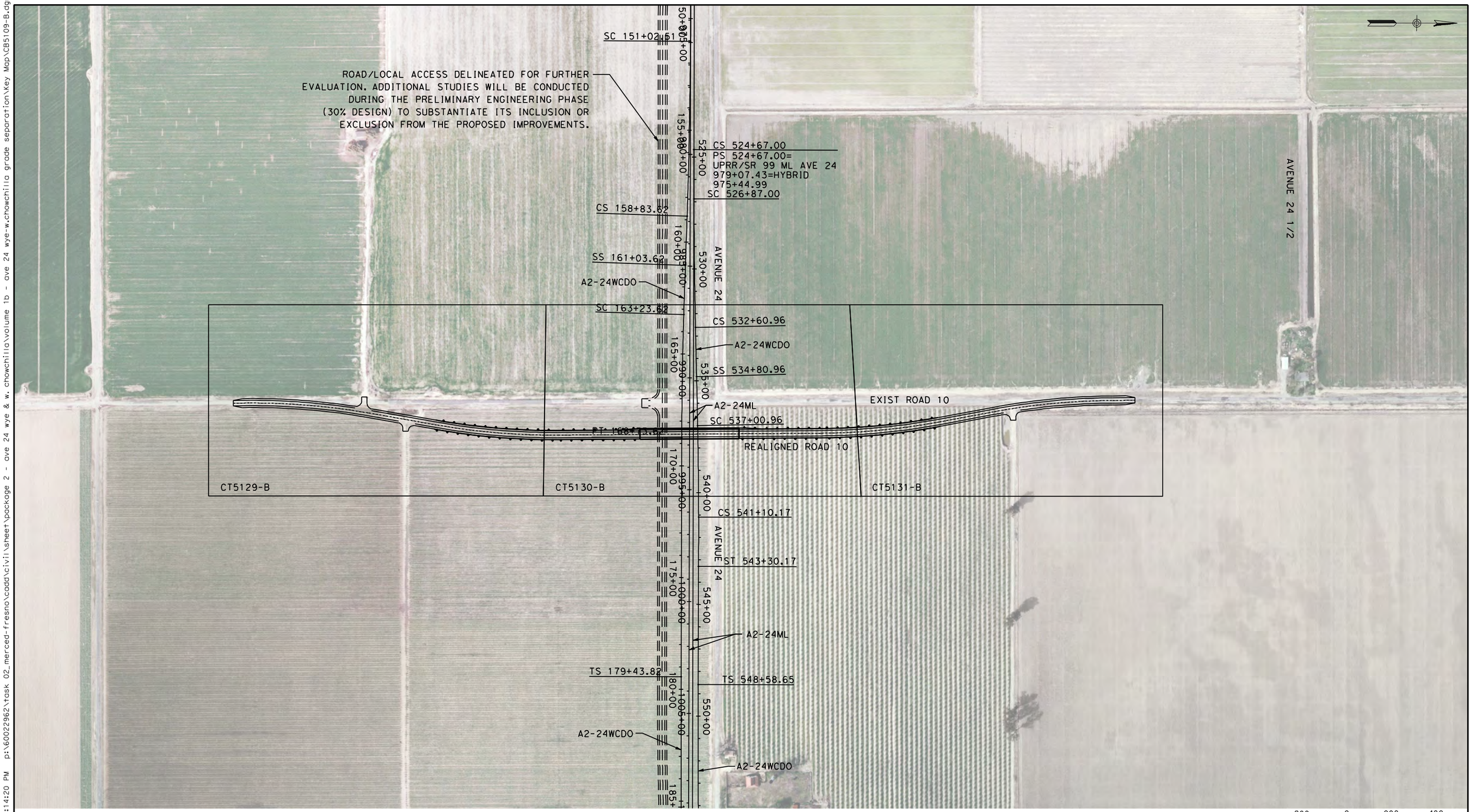

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DESIGNED BY: D. AYELE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALT 1
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5109-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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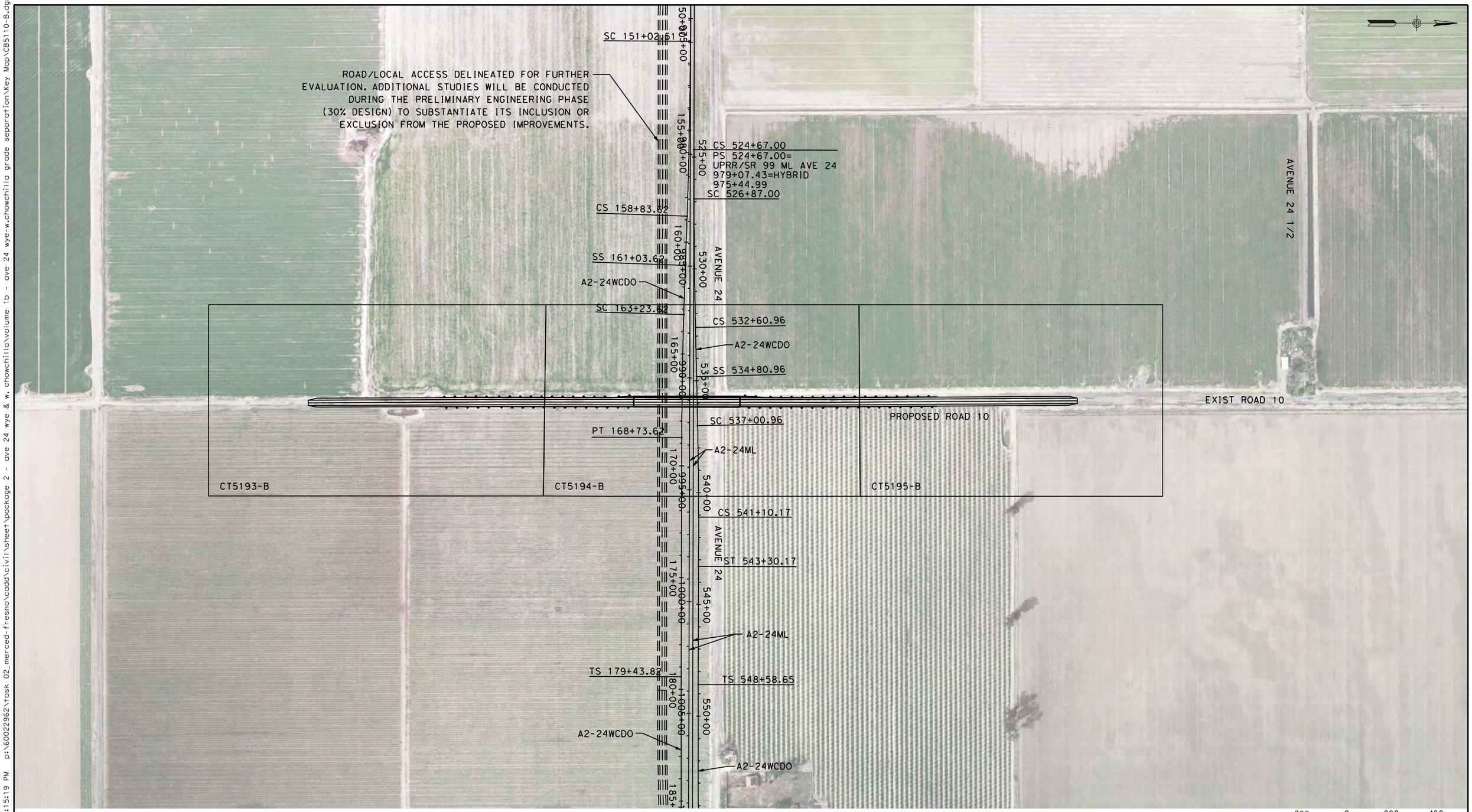

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5110-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5111-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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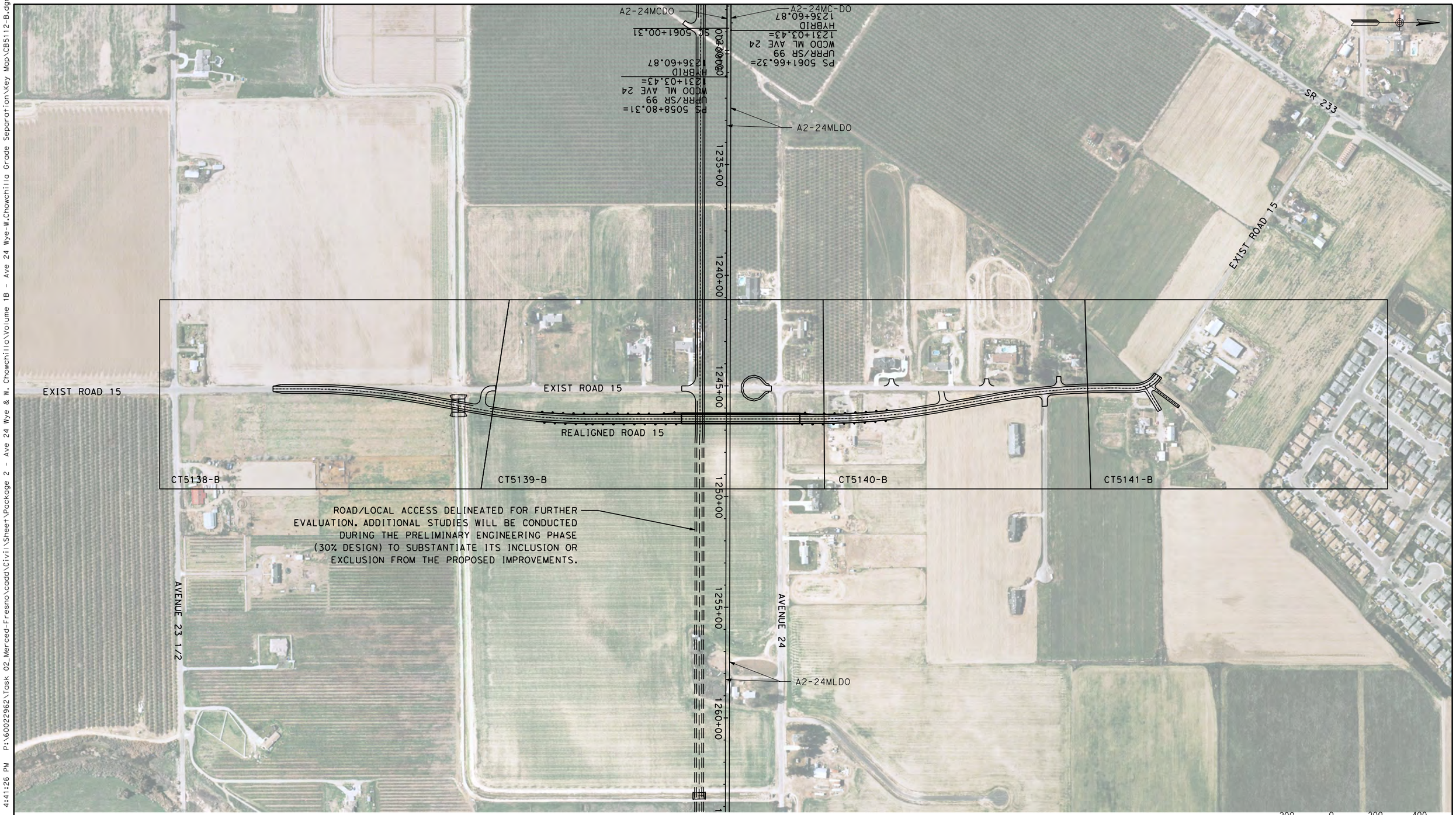

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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5112-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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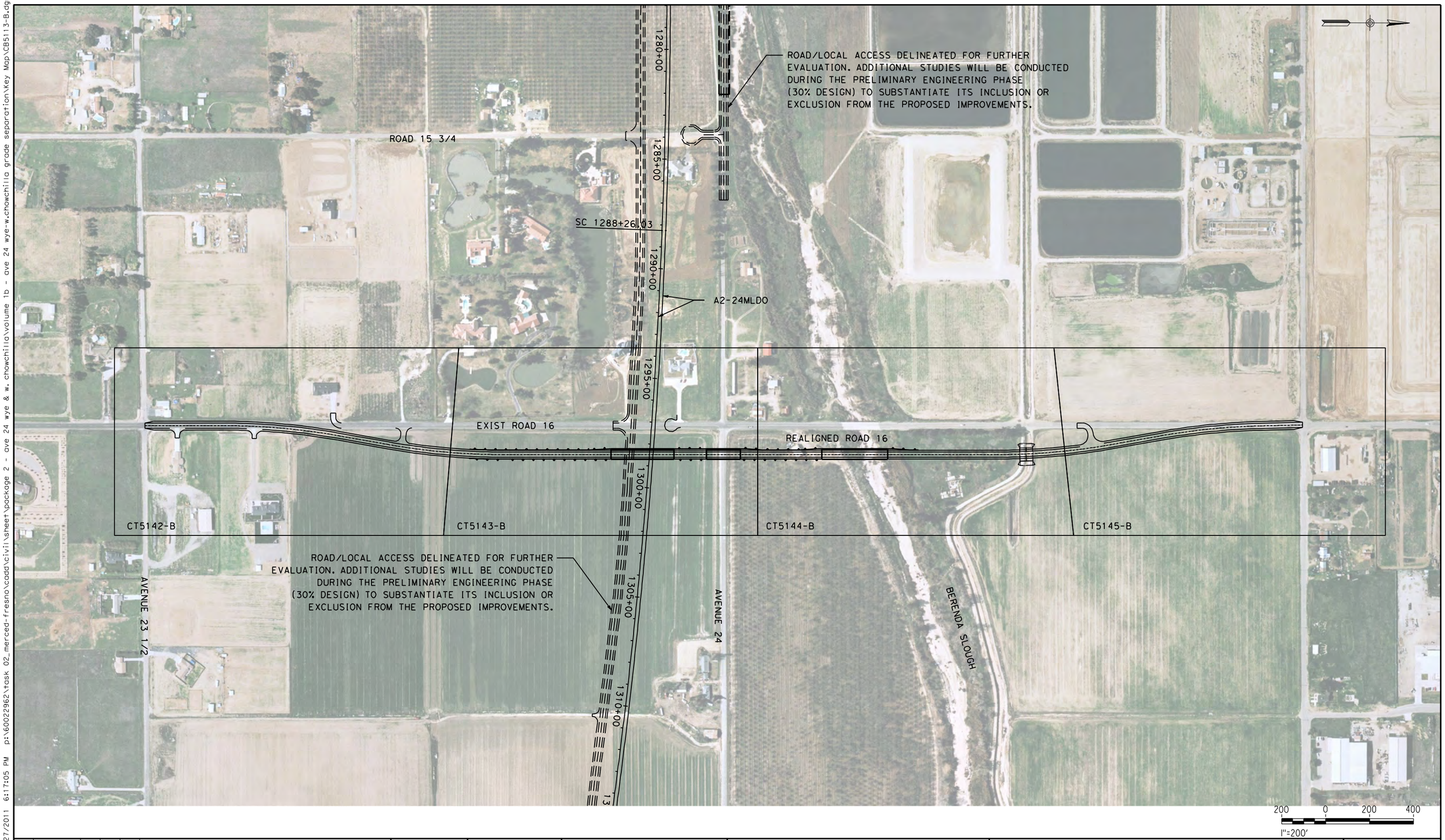

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5113-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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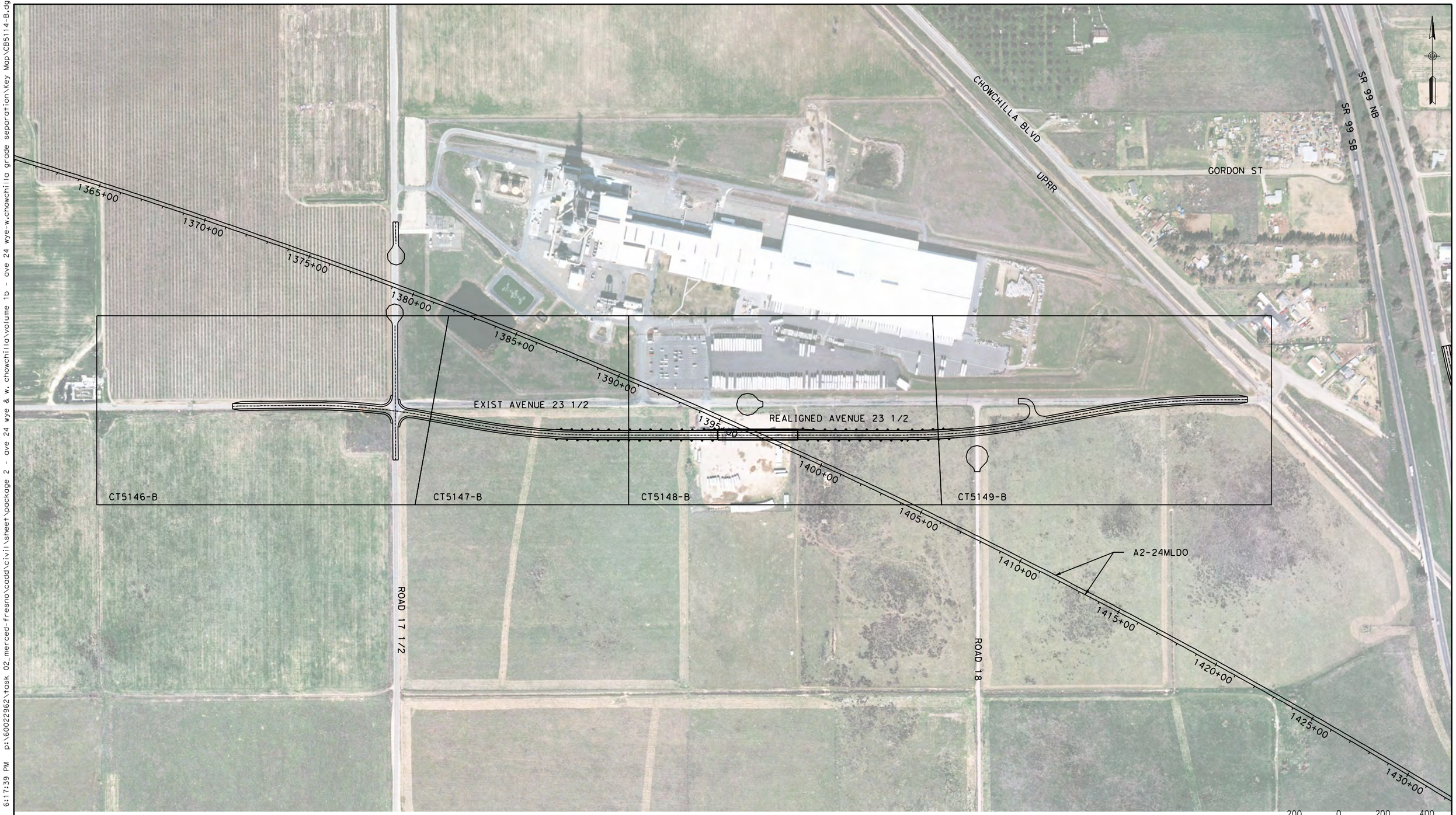

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5114-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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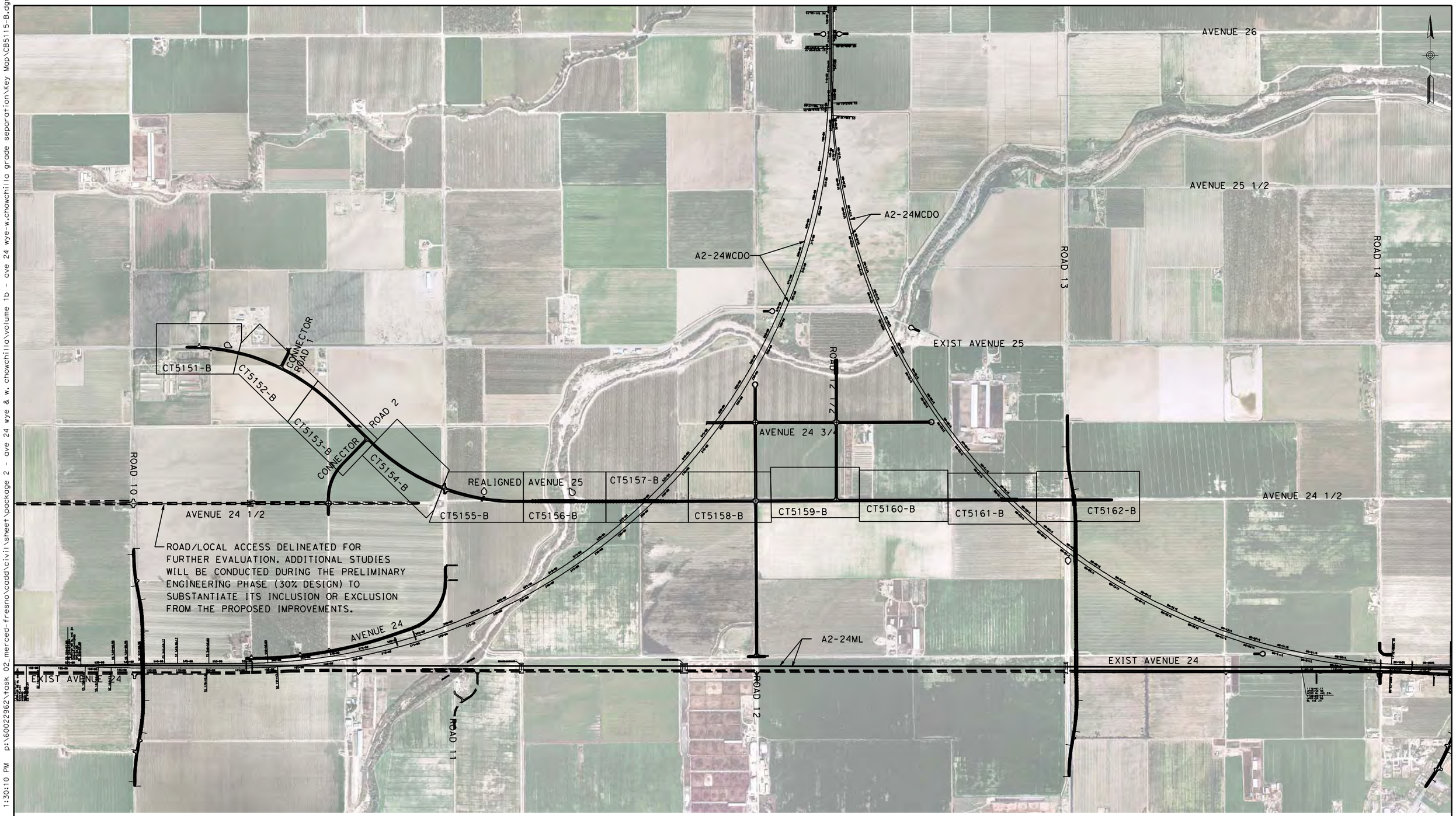
ReyesC1



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DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

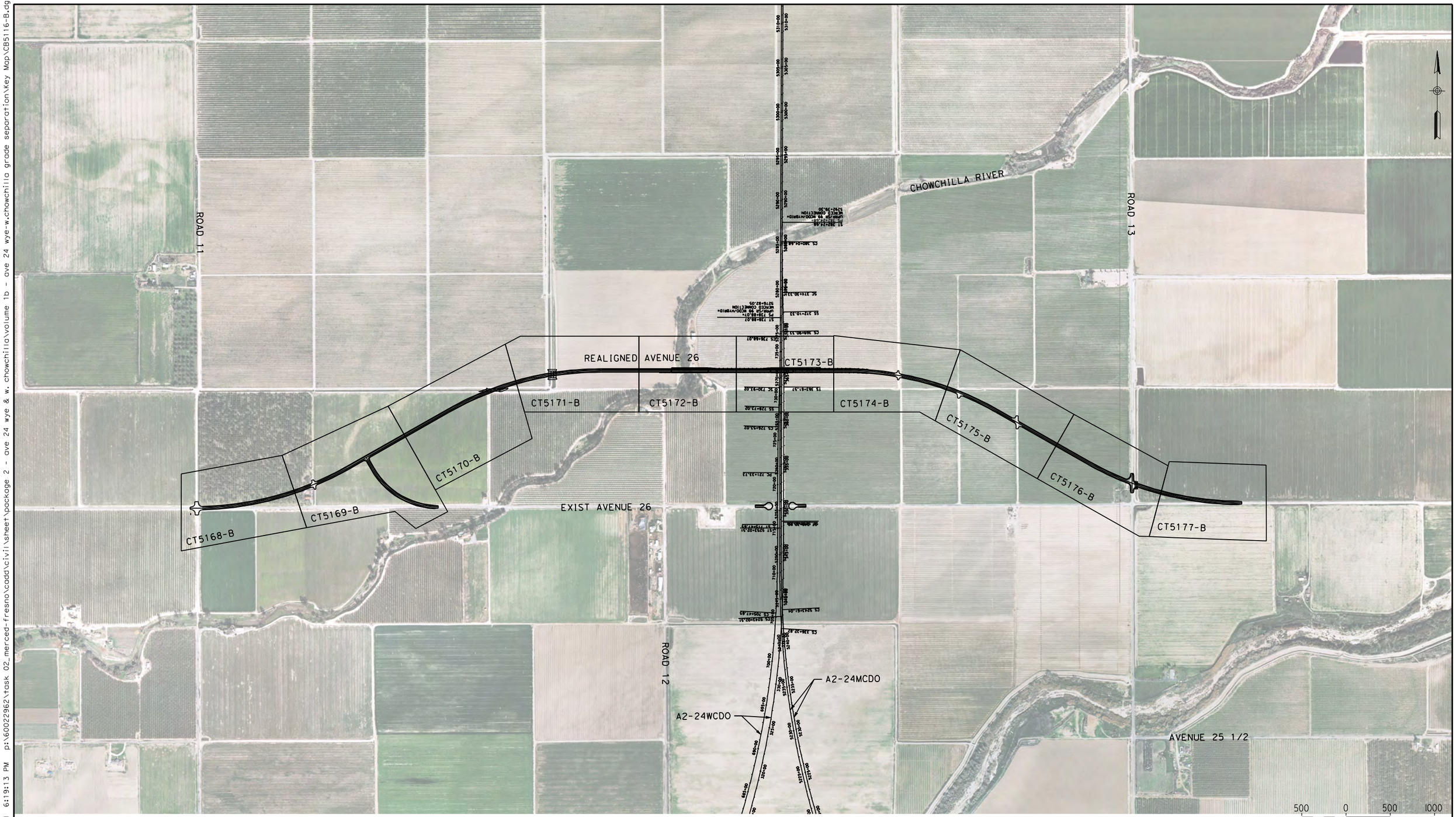
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5115-B
SCALE NO SCALE
SHEET NO. ### OF ###

1/5/2012 1:30:10 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\key Map\CB5115-B.dgn
ReyesC1



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

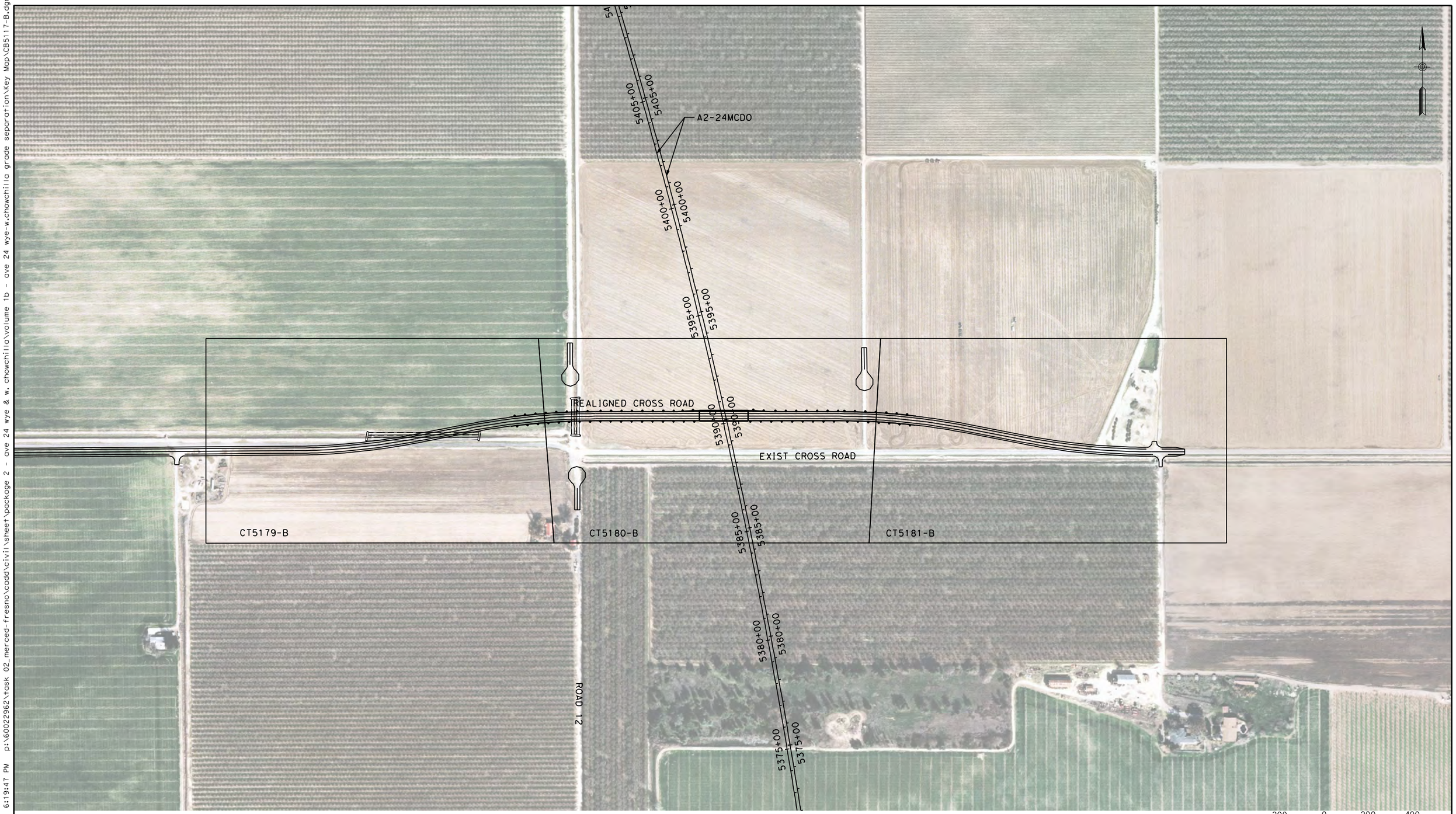
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5116-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:19:13 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\key Map\CB5116-B.dgn
ReyesC1



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
GRADE SEPARATION - CROSS ROAD
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5117-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1 4/27/2011 6:19:47 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\key Map\CB5117-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

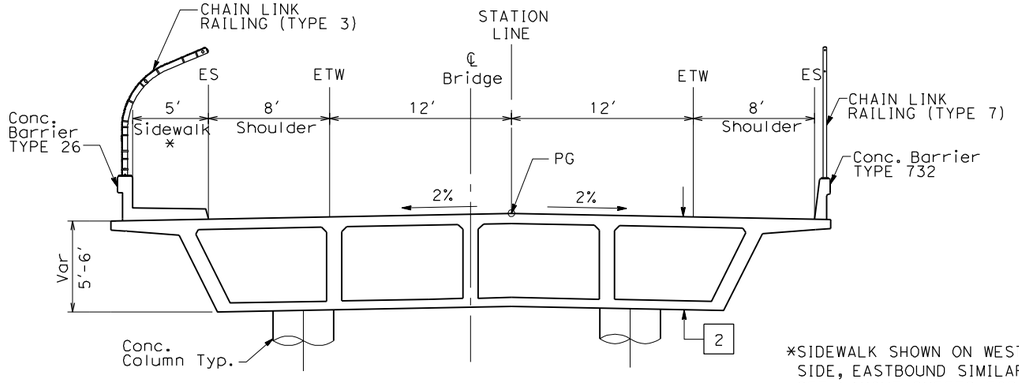
UPRR/SR99 WYE/MERCED DO - (WC)
UNDERPASS - AVENUE 26 ALT 2
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5118-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\key Map\CB5118-B.dgn
4/27/2011 6:20:17 PM
ReyesC1

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

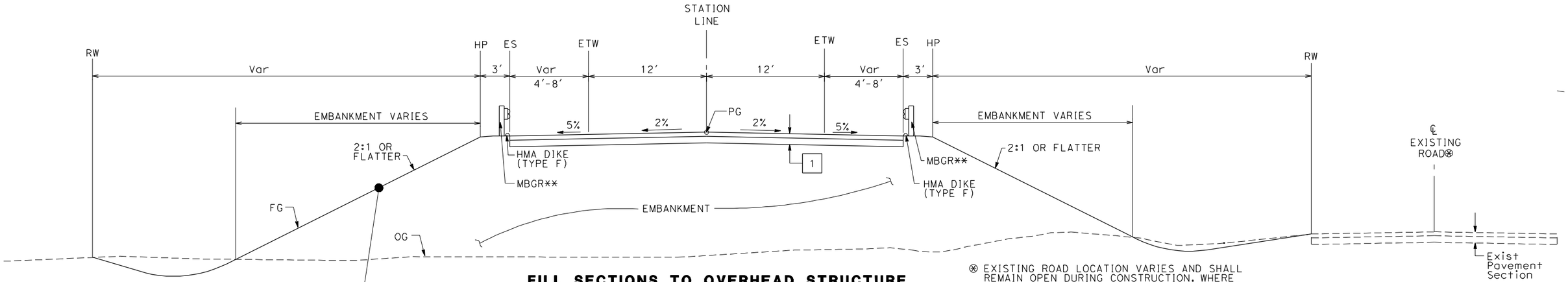
SEE STRUCTURAL PLANS

*SIDEWALK SHOWN ON WESTBOUND SIDE, EASTBOUND SIMILAR SEE LAYOUT SHEETS FOR DETAILS.

STRUCTURAL SECTIONS:

1 — HMA TYPE A
AB CLASS 2

2 — CAST IN PLACE / PRESTRESSED BOX GIRDER (6' STRUCTURE DEPTH)



FILL SECTIONS TO OVERHEAD STRUCTURE

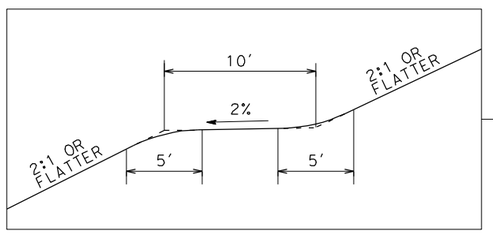
WEST SIDE SHOWN (EAST SIDE SIMILAR)

⊛ 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.

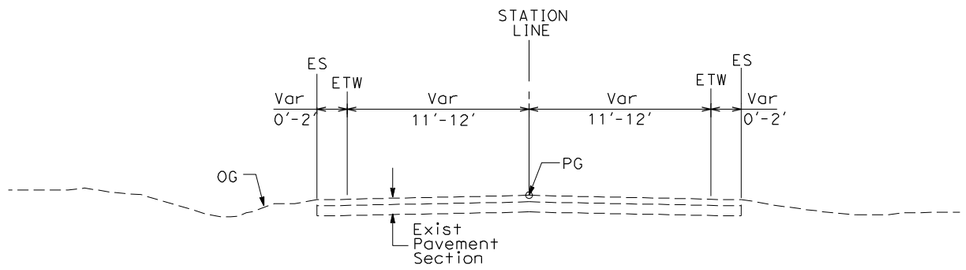
** EXACT LIMITS OF MBGR PER AGENCY REQUIREMENTS.

TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR THE ALIGNMENT A2, AVE 24 WYE OPTION & WEST CHOWCHILLA OPTION:

NO.	STREET NAME
1	ROAD 9 (HEMLOCK RD)
2	ROAD 10
3	ROAD 13
4	Road 15
5	Road 16
6	AVENUE 23-1/2
7	AVENUE 25
8	Avenue 26
9	CROSS RD



BENCHING DETAIL



EXISTING LOCAL ROAD

WEST SIDE SHOWN (EAST SIDE SIMILAR)

SEE LAYOUT SHEETS FOR ACTUAL ROADWAY WIDTHS AT EACH CROSSING

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

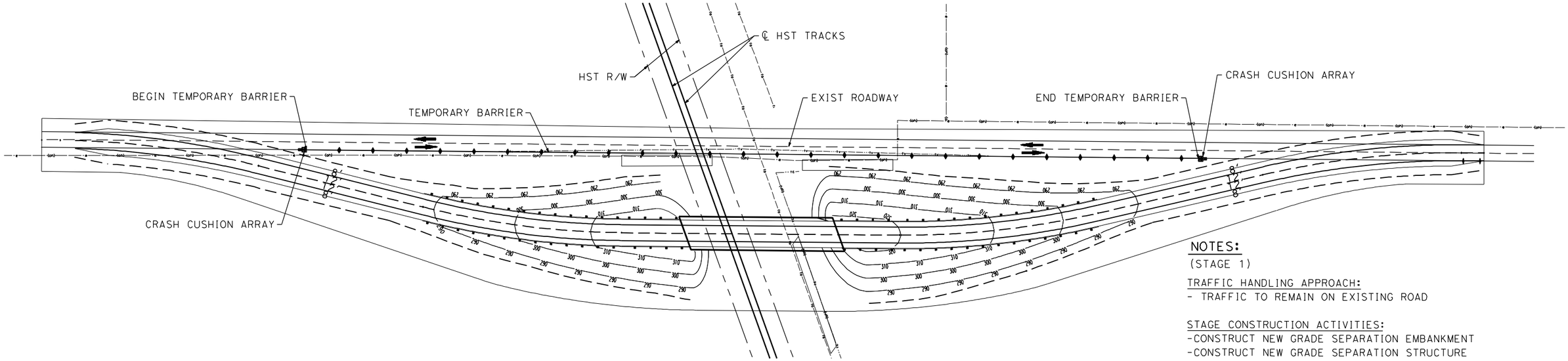
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24)
GRADE SEPARATIONS
TYPICAL CROSS SECTIONS
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CT5090-B
SCALE NTS
SHEET NO. ### OF ###

4/27/2011 6:42:46 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Typical Section\CT5090-B
ReyesC1

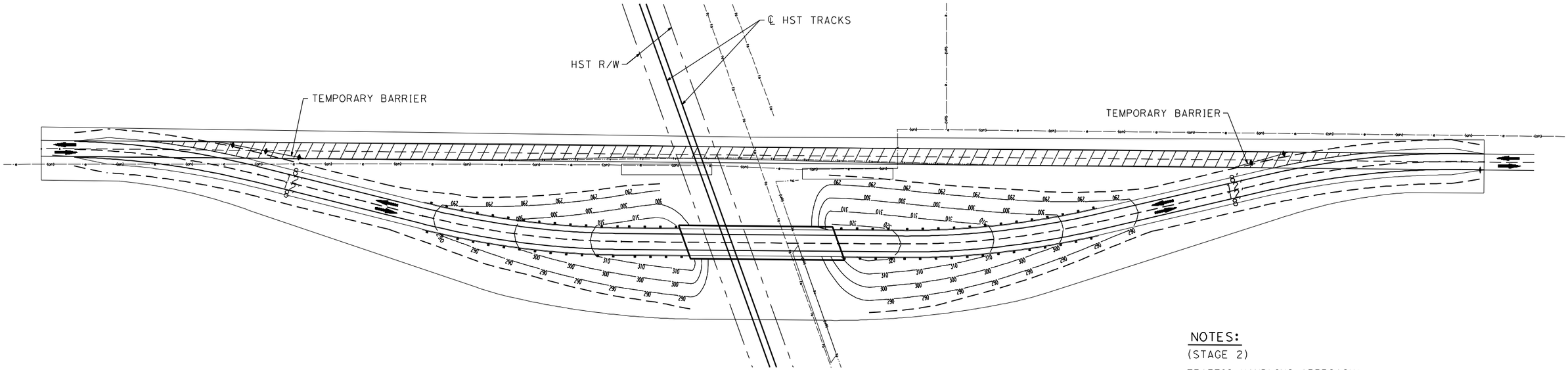


STAGE CONSTRUCTION (STAGE 1)

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 (TYPE U11)
- TEMPORARY BARRIER (TYPE K)
- DIRECTION OF TRAVEL
- REMOVE BASE AND SURFACING (EXIST ROAD)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: S. WONG
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 - (AVE 24/WC)

GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CT5091-B
SCALE NO SCALE
SHEET NO. ### OF ###

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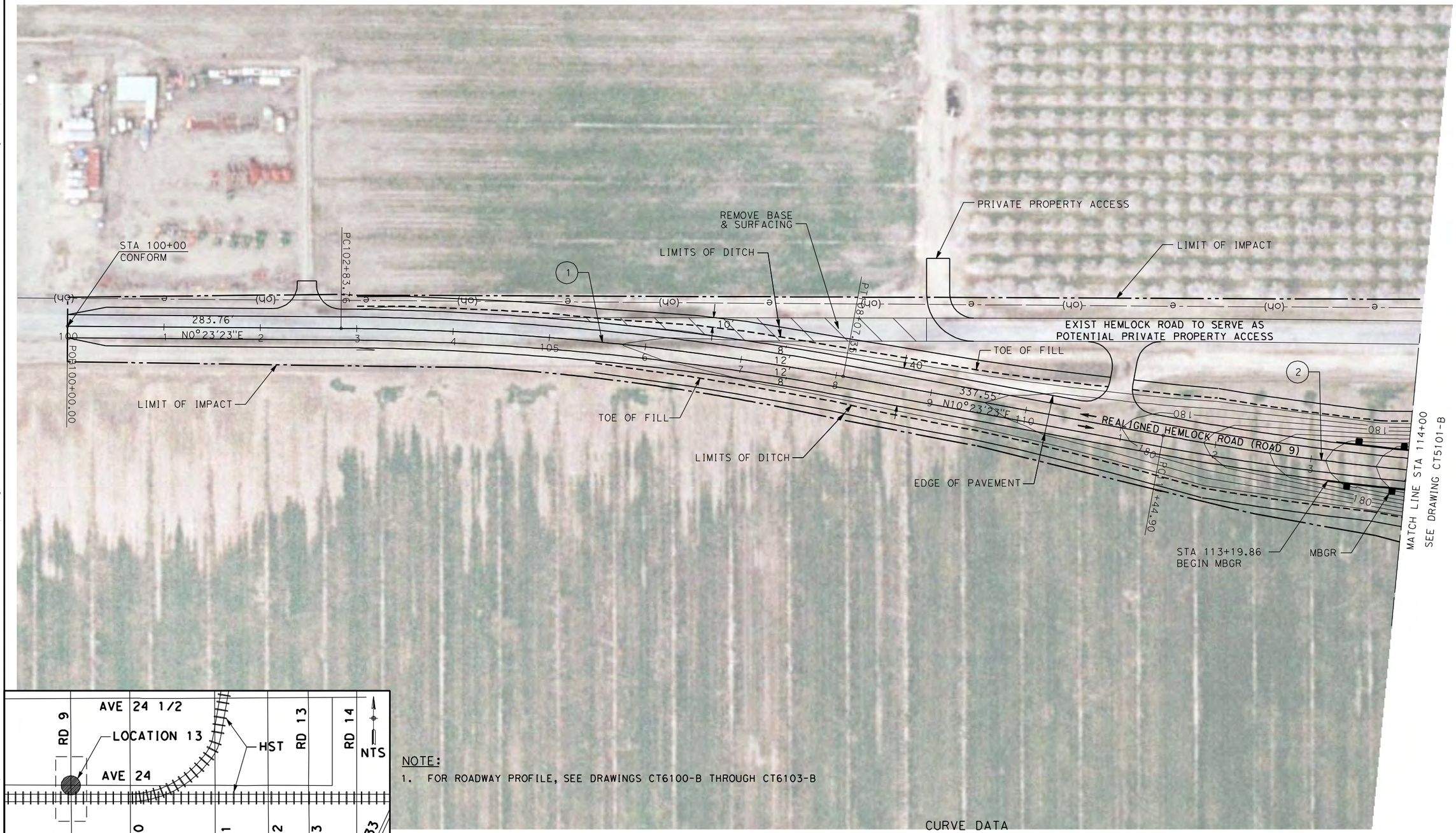
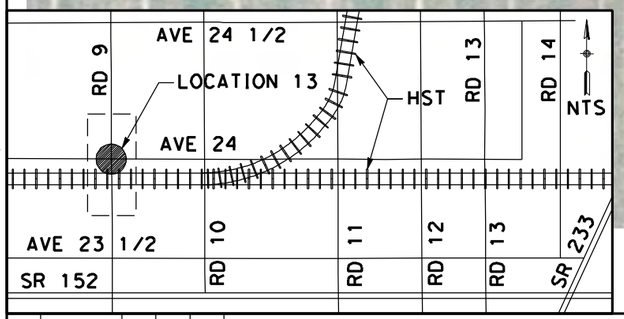
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6100-B THROUGH CT6103-B

CURVE DATA

No.	R	Δ	T	L	V
1	3000.00	10°00'00"	262.47	523.60	45 MPH
2	3000.00	10°26'57"	274.32	547.12	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5100-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:20:41 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5100-B.dgn
ReyesCl

SEE DRAWING CR9130-B

HST R/W

℄ HST TRACK
A2-24WC(SEE DRAWING T2320-A)

℄ HST TRACKS
A2-24ML(SEE DRAWING T2301-A)

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

REMOVE BASE & SURFACING

R=50'

EXIST HEMLOCK ROAD TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

LIMITS OF DITCH

TOE OF FILL

EDGE OF PAVEMENT

(2)

1132.73'
N0°3'34"W

MBGR

STA 120+41.02
BEGIN BRIDGE

STA 120+41.02
END MBGR

REALIGNED HEMLOCK ROAD (ROAD 9)

STA 124+39.00
END BRIDGE

STA 124+39.00
BEGIN MBGR

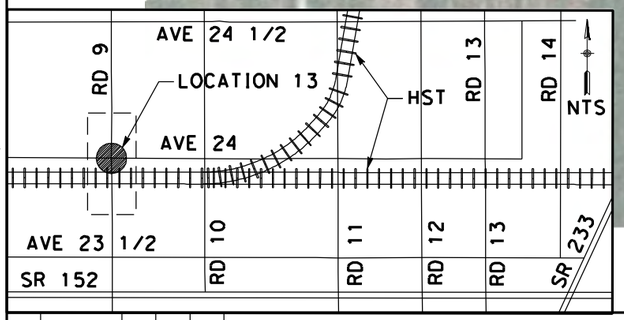
EXIST AVENUE 24

PROPOSED ROAD 9 OVERHEAD

SEE DRAWING CT5100-B
MATCH LINE STA 114+00

MATCH LINE STA 128+00
SEE DRAWING CT5102-B

SEE DRAWING CR9130-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6100-B THROUGH CT6103-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°26'57"	274.32	547.12	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

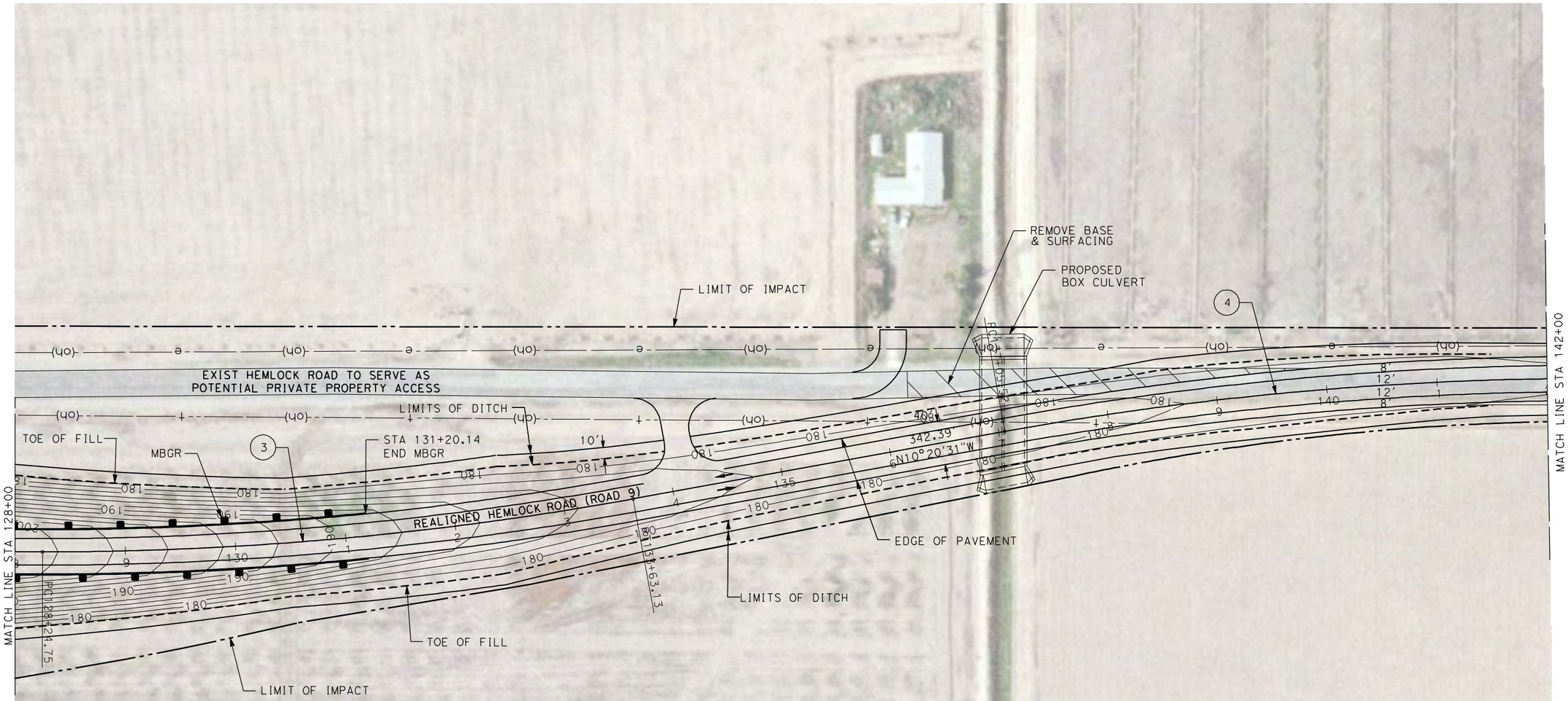
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

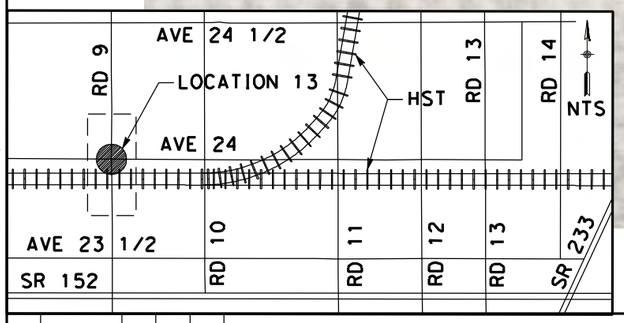
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5101-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:20:56 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5101-B.dgn
ReyesCl





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6100-B THROUGH CT6103-B

CURVE DATA

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3	3000.00	10°16'57"	269.92	538.38	45 MPH
4	3000.00	10°00'00"	262.47	523.60	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5102-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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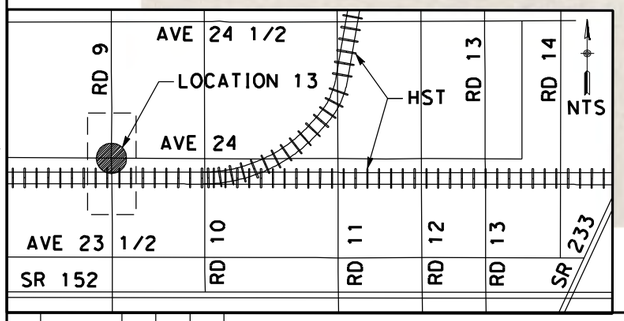
ReyesC1



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6100-B THROUGH CT6103-B

CURVE DATA

No.	R	Δ	T	L	V
(4)	3000.00	10°00'00"	262.47	523.60	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5103-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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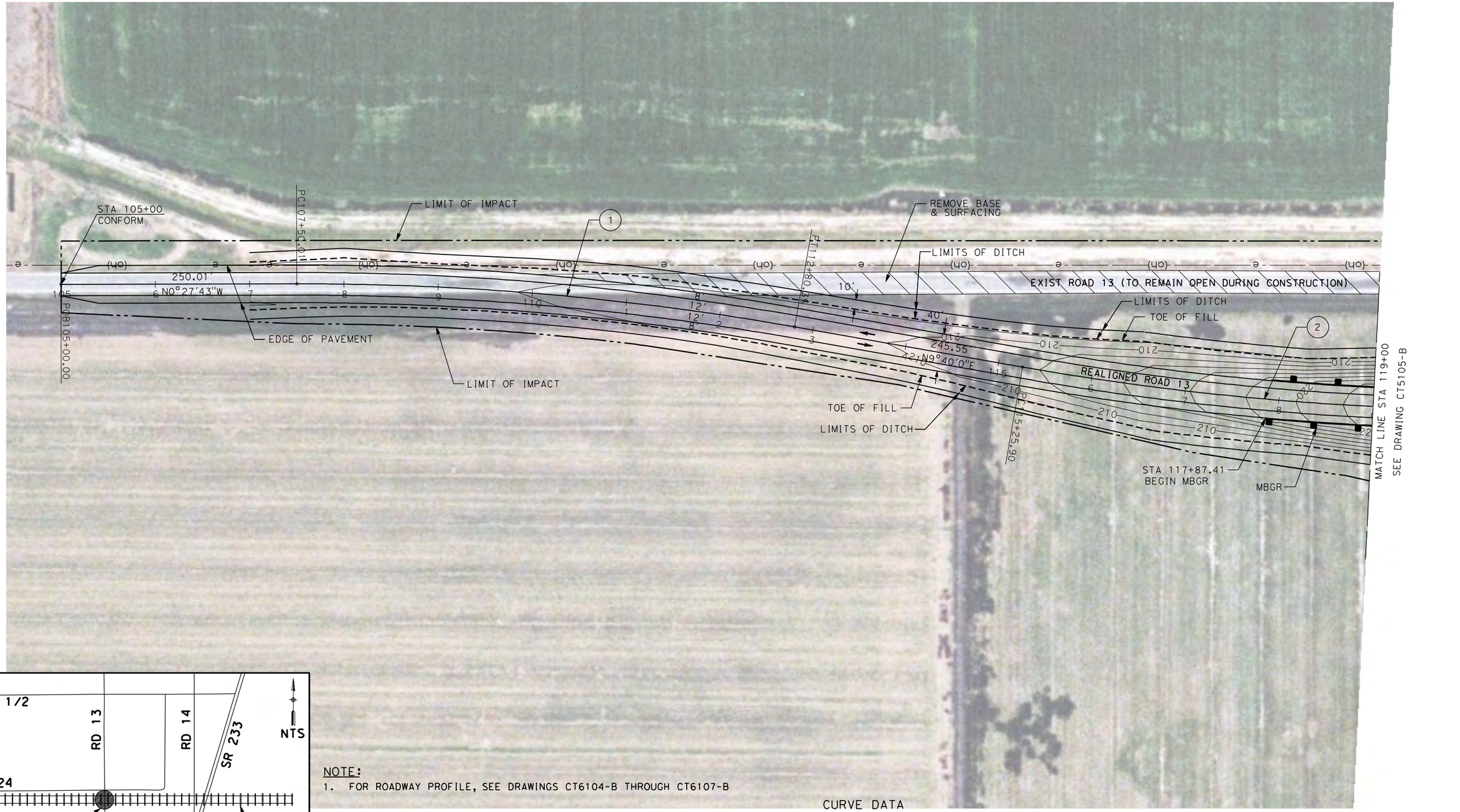
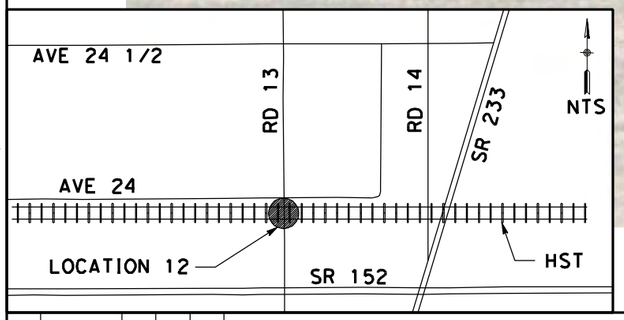
ReyesCl





CURVE DATA

No.	R	Δ	T	L	V
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2	3000.00	10°00'07"	262.52	532.71	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5104-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:21:23 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5104-B.dgn
ReyesCl

SEE DRAWING CR9163-B

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

EXIST AVENUE 24

LIMIT OF IMPACT

REMOVE BASE & SURFACING

R=50'

EXIST ROAD 13 (TO REMAIN OPEN DURING CONSTRUCTION)

LIMITS OF DITCH

TOE OF FILL

EDGE OF PAVEMENT

STA 129+56.00
BEGIN MBGR

LIMITS OF DITCH

TOE OF FILL

MBGR

SEE DRAWING CT5104-B
MATCH LINE STA 119+00

MATCH LINE STA 133+00
SEE DRAWING CT5106-B

1292.14'
N0°20'7"W

REALIGNED ROAD 13

STA 125+15.00
BEGIN BRIDGE

STA 129+56.00
END BRIDGE

TOE OF FILL

LIMITS OF DITCH

MBGR

LIMITS OF DITCH

STA 125+15.00
END MBGR

HST R/W

PROPOSED ROAD 13
OVERHEAD

LIMIT OF IMPACT

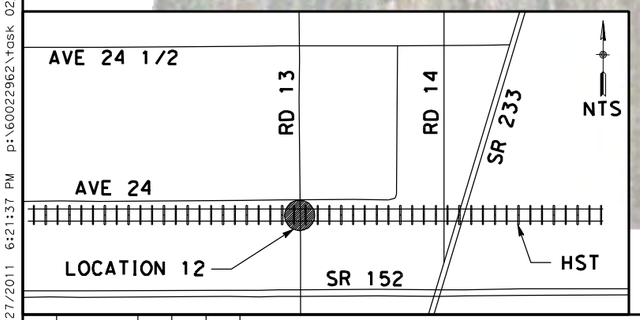
℄ HST TRACKS
A2-24ML(SEE DRAWING T2305-A)

PROPOSED SOUTH FRONTAGE ROAD

EXIST AVENUE 24

SEE DRAWING CR9163-B

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6104-B THROUGH CT6107-B



CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°00'07"	262.52	532.71	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5105-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:21:37 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5105-B.dgn
ReyesC1

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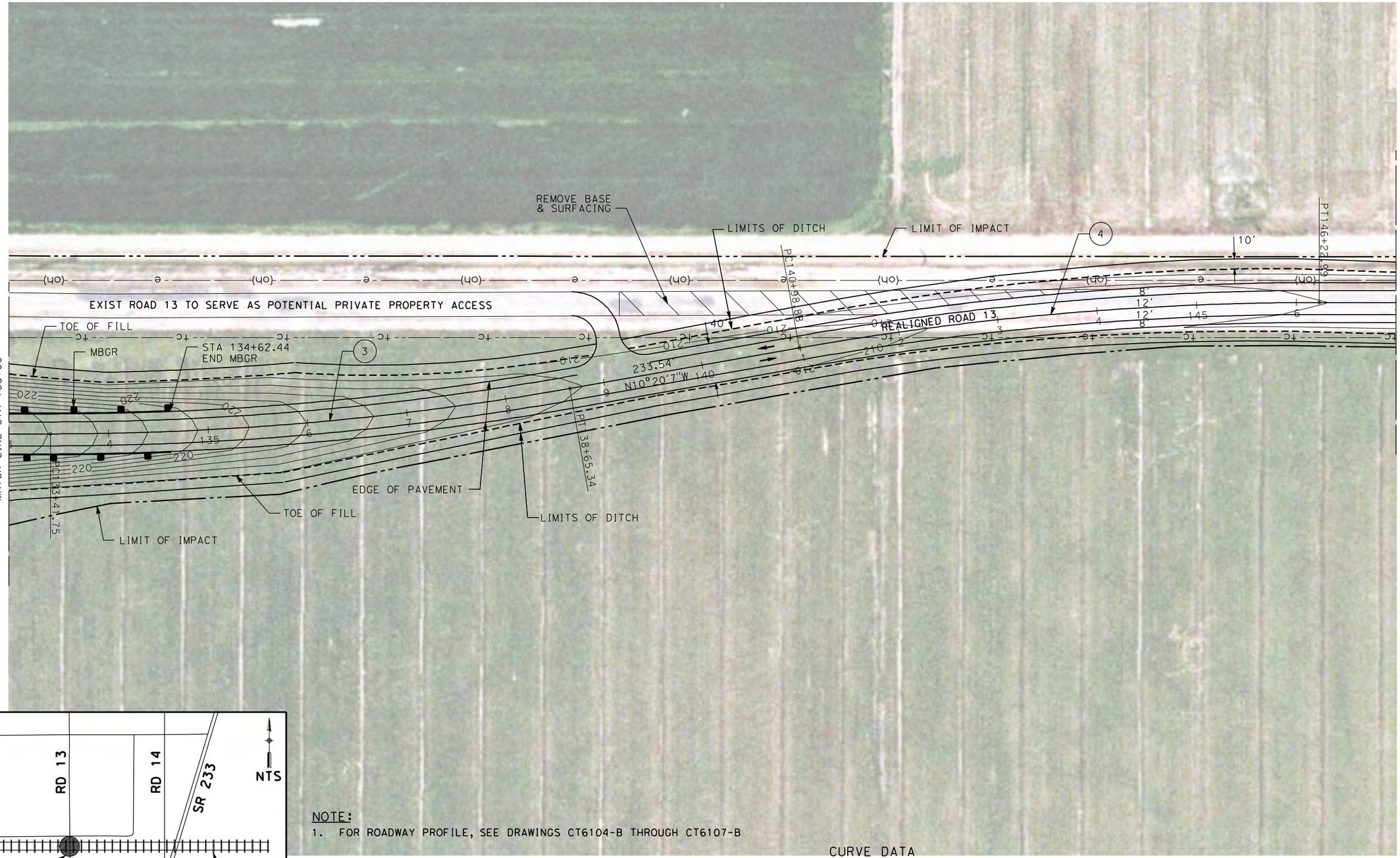
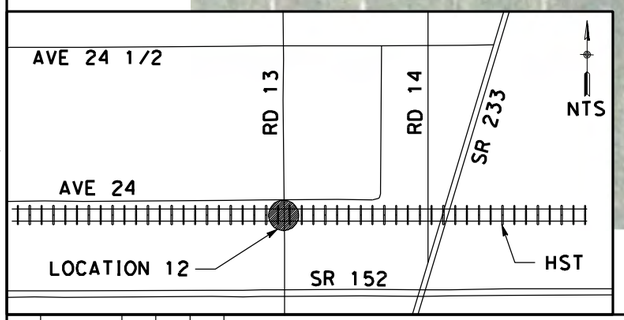
ReyesC1





NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6104-B THROUGH CT6107-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°00'00"	262.46	523.59	45 MPH
(4)	3000.00	10°00'35"	262.72	524.11	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811
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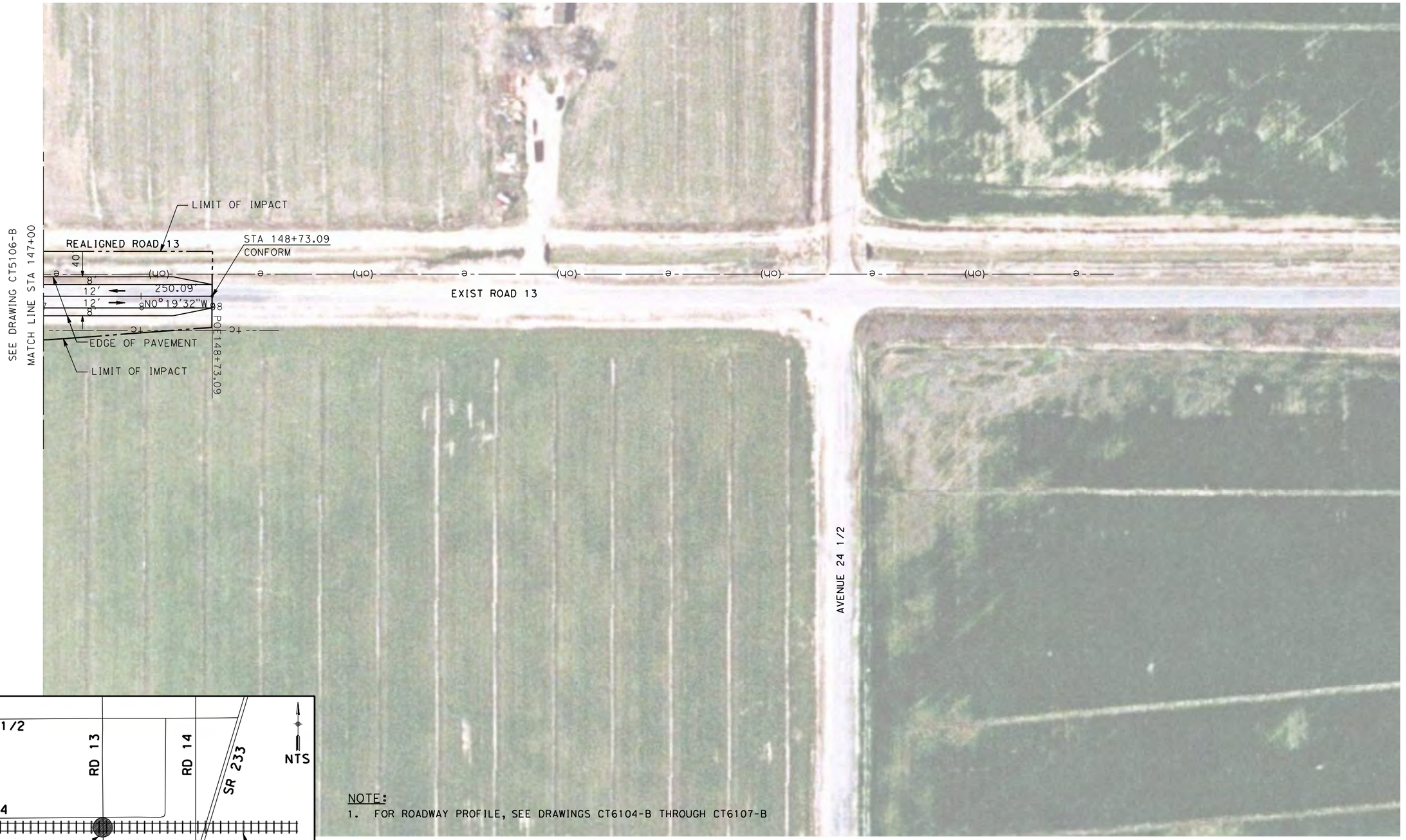
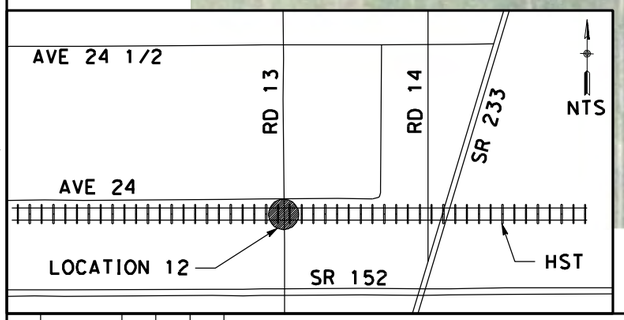
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5106-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6104-B THROUGH CT6107-B

50 0 50 100

1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5107-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesCl

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4/27/2011 6:22:03 PM
ReyesCI

STA 115+00
CONFORM

PC116+50.00

LIMIT OF IMPACT

TOE OF FILL

1

REMOVE BASE
& SURFACING

PI12+82.83

EXIST ROAD 15 TO SERVE AS POTENTIAL
PRIVATE PROPERTY ACCESS

2

PROPOSED
BOX CULVERT

LIMITS OF DITCH

150'
N0°0'0"W

PB115+00.00

LIMIT OF IMPACT

TOE OF FILL

230.51'
N10°10'0"E

REALIGNED ROAD 15

EDGE OF PAVEMENT

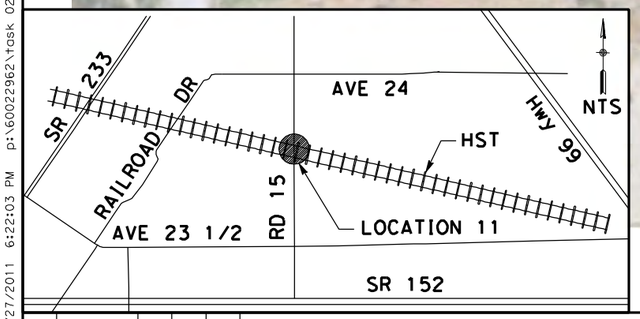
PI12+12.83

STA 126+53.63
BEGIN MBGR

MBGR

LIMITS OF DITCH

MATCH LINE STA 129+00
SEE DRAWING CT5109-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6108-B THROUGH CT6110-B

CURVE DATA

No.	R	Δ	T	L	V
1	3000.00	10°10'00"	266.86	532.33	45 MPH
2	3000.00	10°13'57"	268.60	535.78	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5108-B
SCALE AS SHOWN
SHEET NO. ### OF ###

I:\Package 2 - ave 24 wye & w. chowchilla\Volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5109-B.dgn
4/27/2011 6:22:15 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\packages

SEE DRAWING CR9165-B

SEE DRAWING CR9137-B

SEE DRAWING CR9137-B

SEE DRAWING CT5108-B
MATCH LINE STA 129+00

MATCH LINE STA 143+00
SEE DRAWING CT5110-B

PROPOSED SOUTH FRONTAGE ROAD

PROPOSED NORTH FRONTAGE ROAD

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

HST R/W

℄ HST TRACKS
A2-24ML(SEE DRAWING T2306-A)

LIMIT OF IMPACT

R=50′

REMOVE BASE & SURFACING

LIMITS OF DITCH

EXIST ROAD 15 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

TOE OF FILL

MBGR

REALIGNED ROAD 15

1131.61
N0°3′57″W

STA 124+78.19

STA 133+87.59
BEGIN BRIDGE

STA 133+87.59
END MBGR

STA 137+31.81
END BRIDGE

STA 137+31.81
BEGIN MBGR

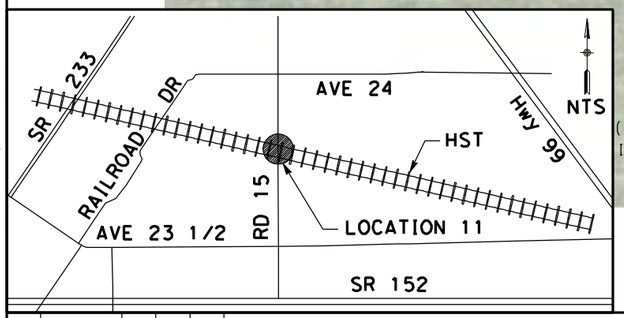
EDGE OF PAVEMENT

PRIVATE PROPERTY ACCESS

EXIST AVENUE 24

PROPOSED ROAD 15 OVERHEAD

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6108-B THROUGH CT6110-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°13′57″	268.60	535.78	45 MPH
(3)	3000.00	10°06′03″	265.12	528.88	45 MPH

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5109-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1

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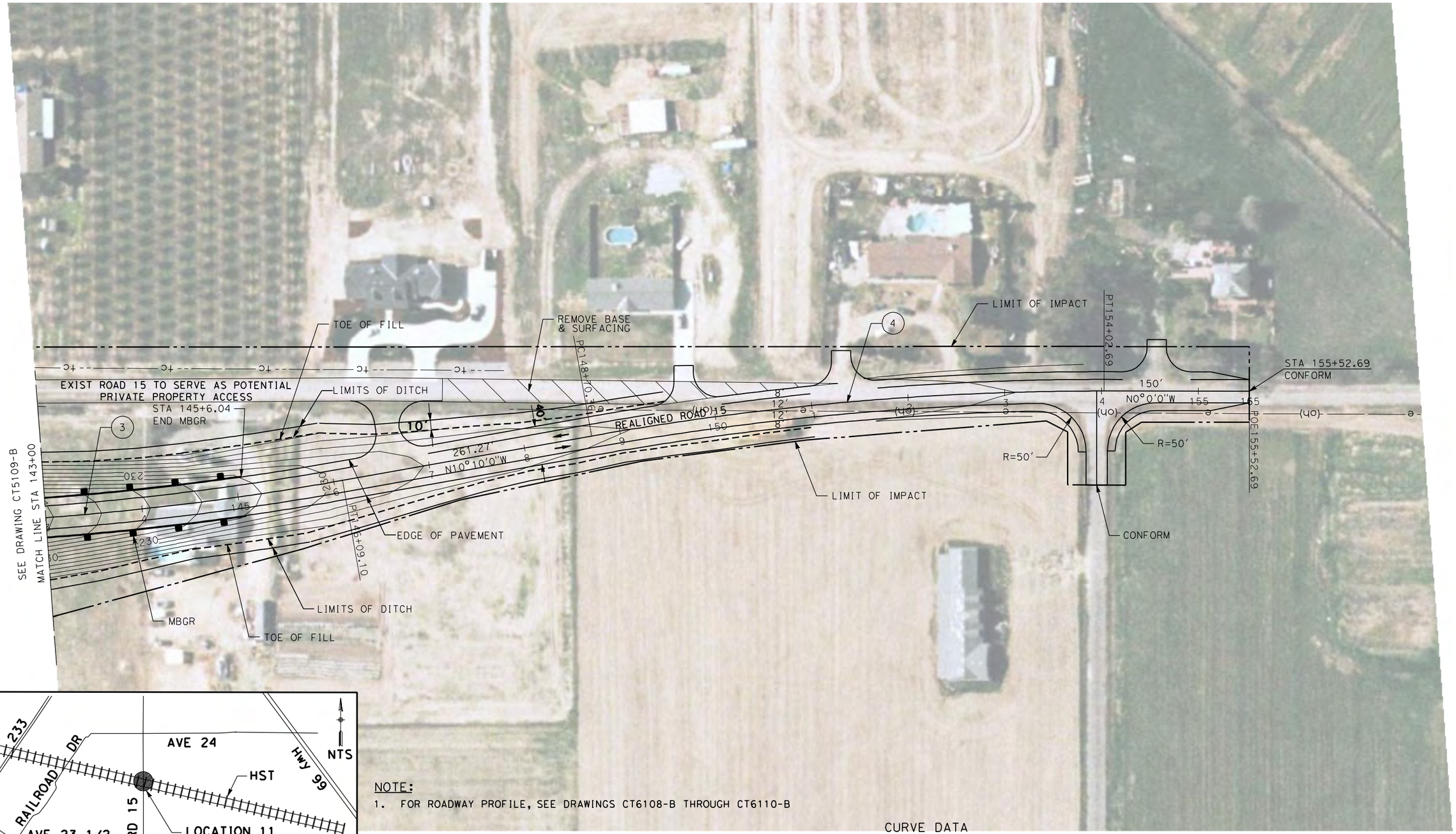
ReyesCI



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6108-B THROUGH CT6110-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°06'03"	265.12	528.88	45 MPH
(4)	3000.00	10°10'00"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

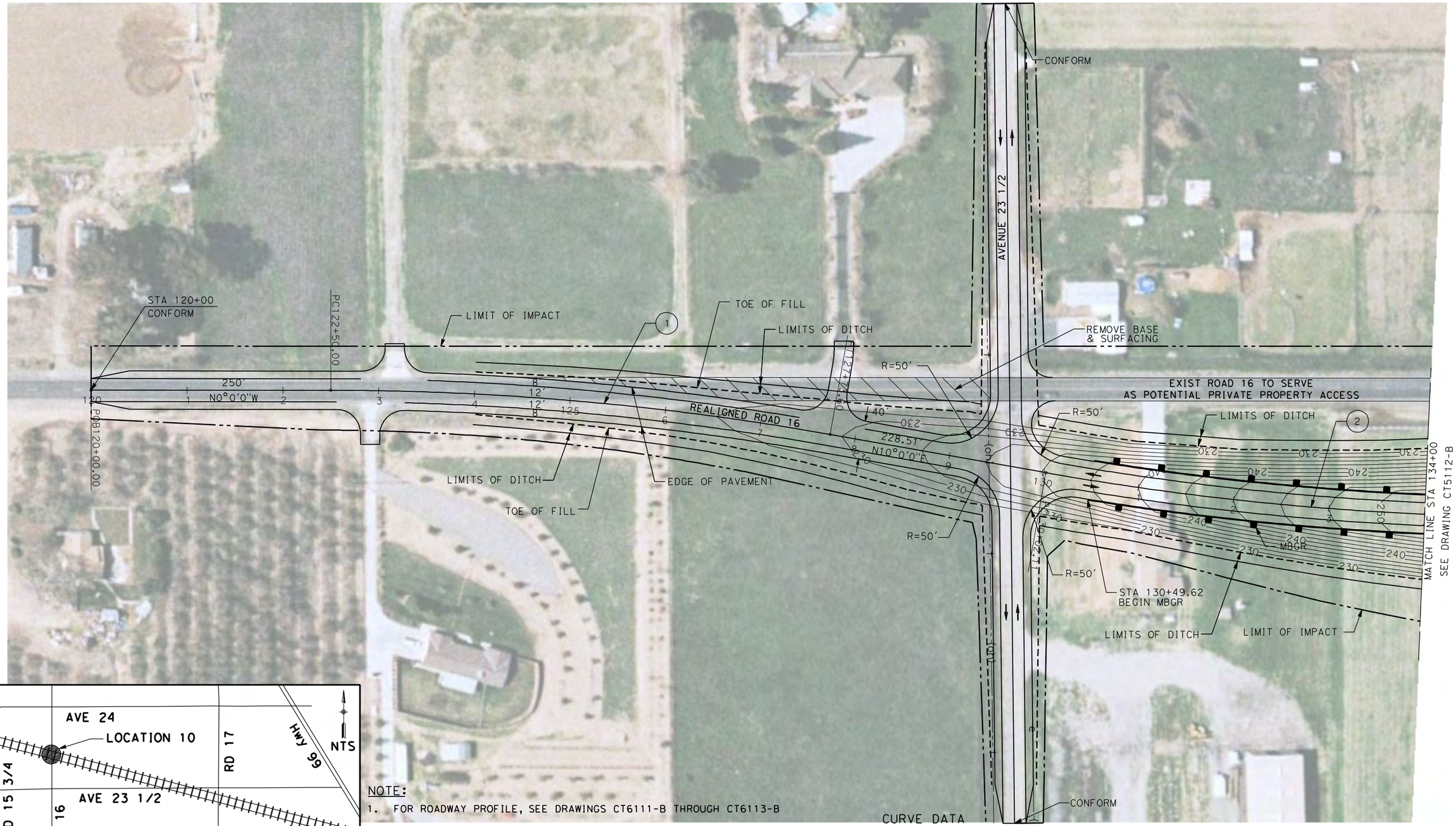
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

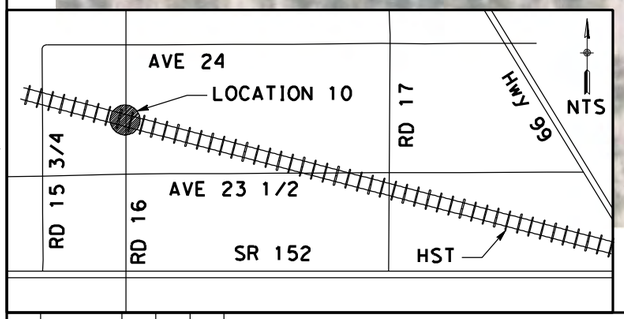
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5110-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5111-B.dgn
p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5111-B.dgn
4/27/2011 6:22:33 PM
ReyesC1





NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6111-B THROUGH CT6113-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	10°00'00"	262.47	523.60	45 MPH
(2)	3000.00	10°13'57"	263.85	526.35	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5111-B
SCALE AS SHOWN
SHEET NO. ### OF ###

SEE DRAWING CR9138-B

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

HST R/W

℄ HST TRACKS
A2-24ML(SEE DRAWING T2307-A)

LIMITS OF DITCH

TOE OF FILL

R=50'

REMOVE BASE & SURFACING

LIMITS OF DITCH

LIMIT OF IMPACT

EXIST ROAD 16 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

EXIST ROAD 16 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

MBGR

TOE OF FILL

REALIGNED ROAD 16

N0°3'9"W

1077

1305

1310

SEE DRAWING CT5111-B
MATCH LINE STA 134+00

MATCH LINE STA 148+00
SEE DRAWING CT5113-B

PH 139+22.46

PH 146+25.47

TOE OF FILL

EDGE OF PAVEMENT

STA 139+29.00
BEGIN BRIDGE

STA 139+29.00
END MBGR

LIMITS OF DITCH

STA 142+14.60
END BRIDGE

STA 142+14.60
BEGIN MBGR

TOE OF FILL

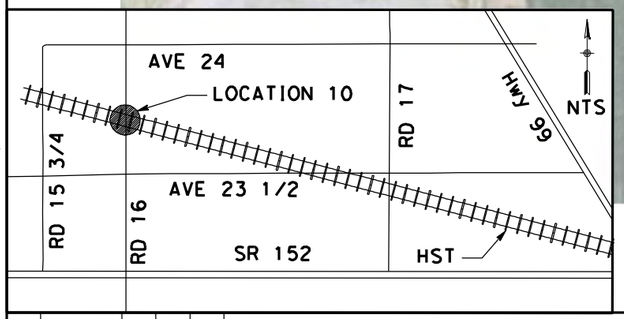
MBGR

LIMITS OF DITCH

LIMIT OF IMPACT

PROPOSED ROAD 16 OVERHEAD

SEE DRAWING CR9138-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6111-B THROUGH CT6113-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°03'09"	263.85	526.35	45 MPH
(3)	3000.00	10°00'12"	262.55	523.77	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5112-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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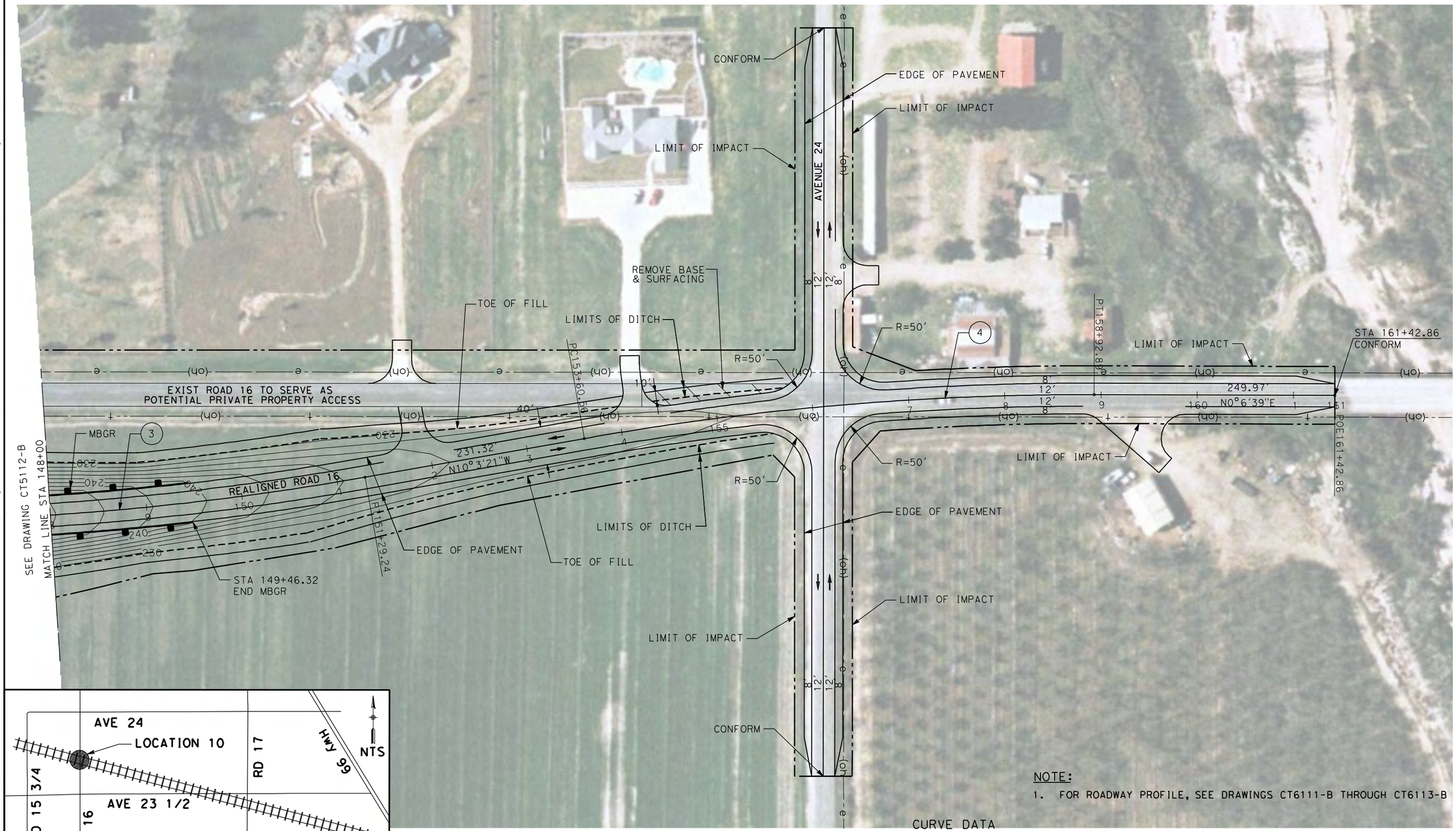
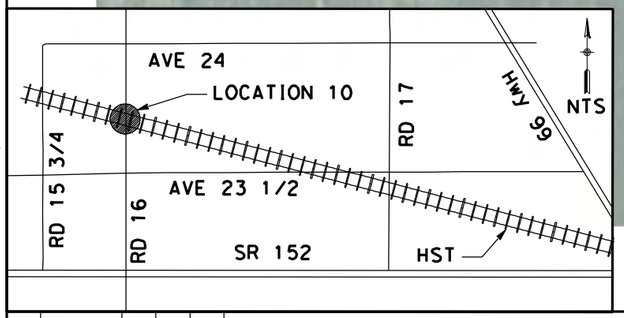
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6111-B THROUGH CT6113-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°00'12"	262.55	523.77	45 MPH
(4)	3000.00	10°10'00"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5113-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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℄ HST TRACKS
A2-24ML (SEE DRAWING T2308-A)

HST R/W

TOE OF FILL

LIMITS OF DITCH

EDGE OF PAVEMENT

LIMIT OF IMPACT

STA 125+00
CONFORM

PC 134+69.38

REALIGNED AVENUE 23 1/2

230.45'
N79°41'51"E

223.15'
N89°32'54"E

PT 132+38.93

STA 136+8.06
BEGIN MBGR

MBGR

EXIST AVENUE 23 1/2 TO SERVE AS
POTENTIAL PRIVATE PROPERTY ACCESS

PRIVATE PROPERTY ACCESS

REMOVE BASE
& SURFACING

BOB 125+00.00

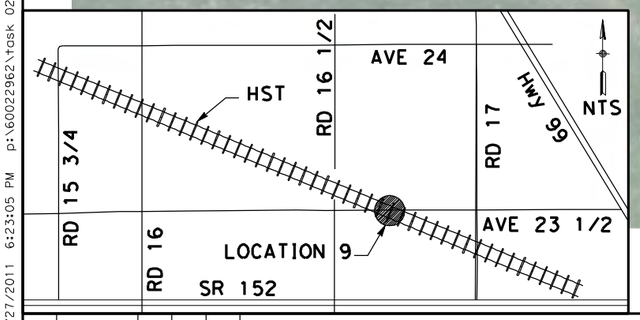
PC 127+23.15

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

MATCH LINE STA 139+00
SEE DRAWING CT5115-B



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6114-B THROUGH CT6117-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	09°51'03"	258.53	515.78	45 MPH
(2)	3000.00	10°04'41"	264.53	527.69	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5114-B
SCALE AS SHOWN
SHEET NO. ### OF ###

C:\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\Package 2 - USER=ReyesC1 3/27/2012 11:57:55 AM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil

HST R/W

℄ HST TRACKS
A2-24ML(SEE DRAWING T2308-A)

RETAINING WALL

LIMIT OF IMPACT

PROPOSED
BOX CULVERT

LIMITS OF DITCH

LIMITS OF DITCH

TOE OF FILL

EDGE OF PAVEMENT

MBGR

TOE OF FILL

PROPOSED AVENUE 23 1/2 OVERHEAD

STA 150+30.52
BEGIN MBGR

STA 150+30.52
END BRIDGE

SEE DRAWING CT5114-B
MATCH LINE STA 139+00

PT 1340+97.10'

1580.13'
N89°46'32"E

REALIGNED AVENUE 23 1/2

MATCH LINE STA 153+00
SEE DRAWING CT5116-B

STA 145+33.24
BEGIN BRIDGE

STA 145+33.24
END MBGR

PC 1144+22.67'

TOE OF FILL

LIMITS OF DITCH

REMOVE BASE
& SURFACING

EXIST AVENUE 23 1/2 TO SERVE AS
POTENTIAL PRIVATE PROPERTY ACCESS

EXIST AVENUE 23 1/2 (TO REMAIN OPEN
DURING CONSTRUCTION)

CONFORM

POB 1142+99.41

PROPOSED SOUTH FRONTAGE ROAD

LIMIT OF IMPACT

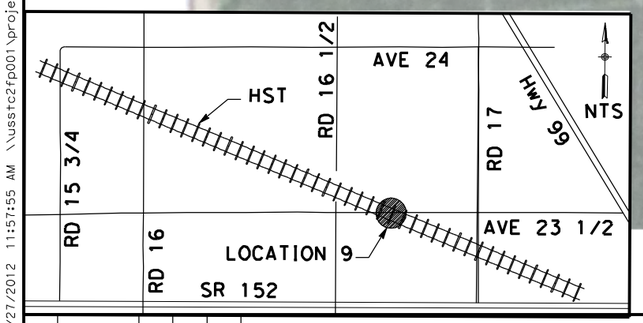
ROAD 16 1/2

RETAINING WALL

SEE DRAWING CR9140-B

REALIGNED
IRRIGATION CANAL

PROPOSED
BOX CULVERT



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6114-B THROUGH CT6117-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°04'41"	264.53	527.69	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5115-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5116-B.dgn
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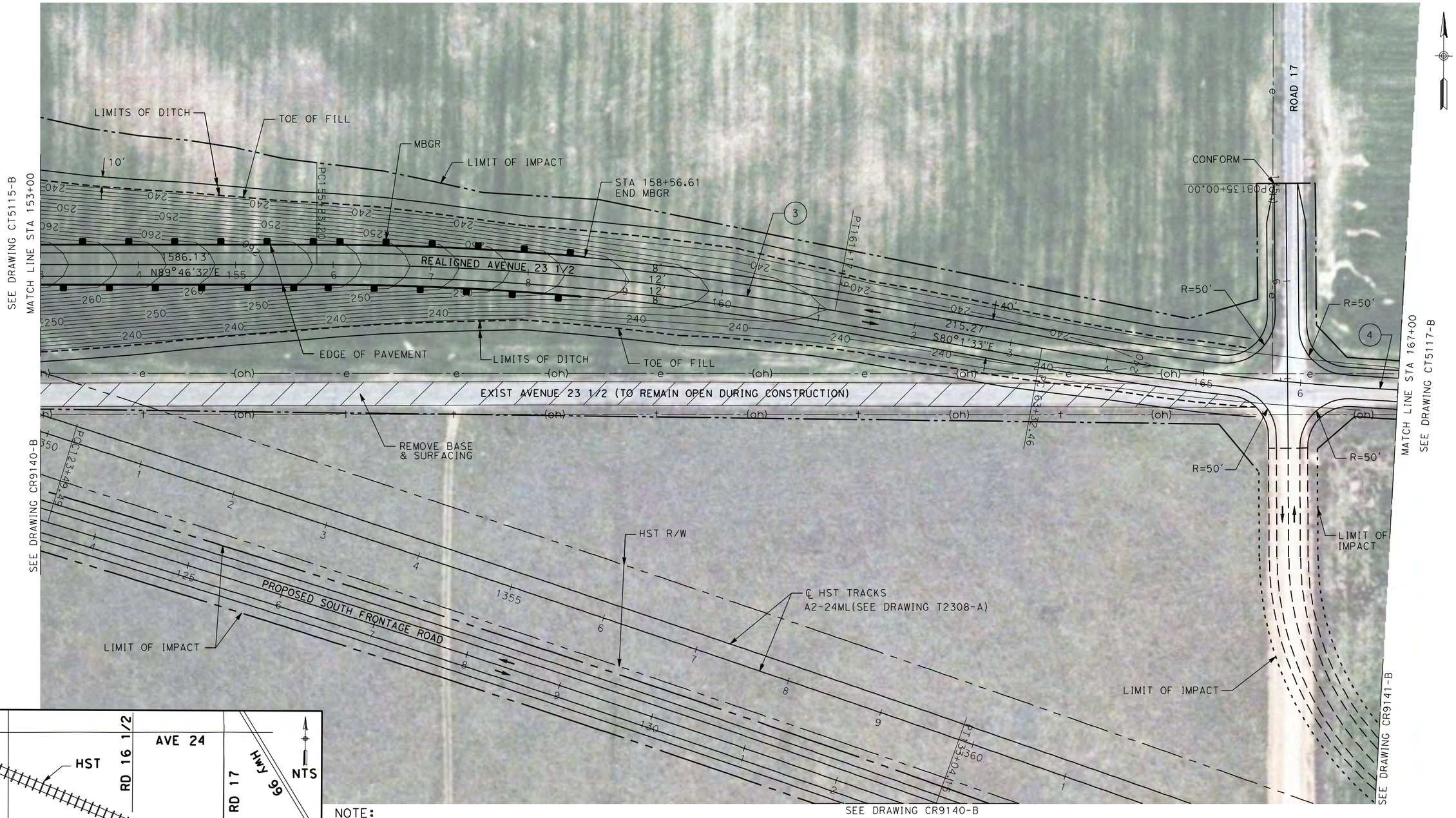
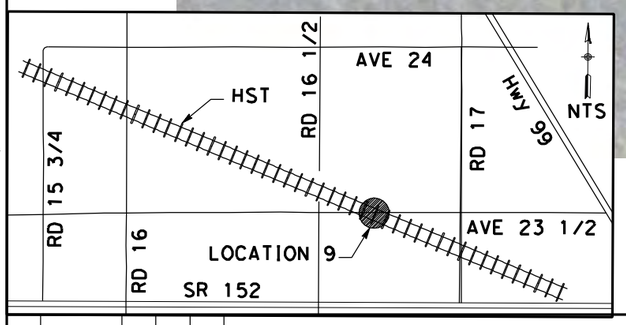
ReyesC1





NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6114-B THROUGH CT6117-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°11'55"	267.53	533.99	45 MPH
(4)	3000.00	10°10'00"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

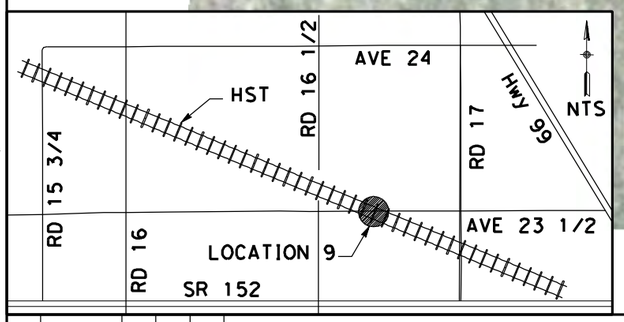
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5116-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5117-B.dgn



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6114-B THROUGH CT6117-B

CURVE DATA

No.	R	Δ	T	L	V
(4)	3000.00	10°10'00"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5117-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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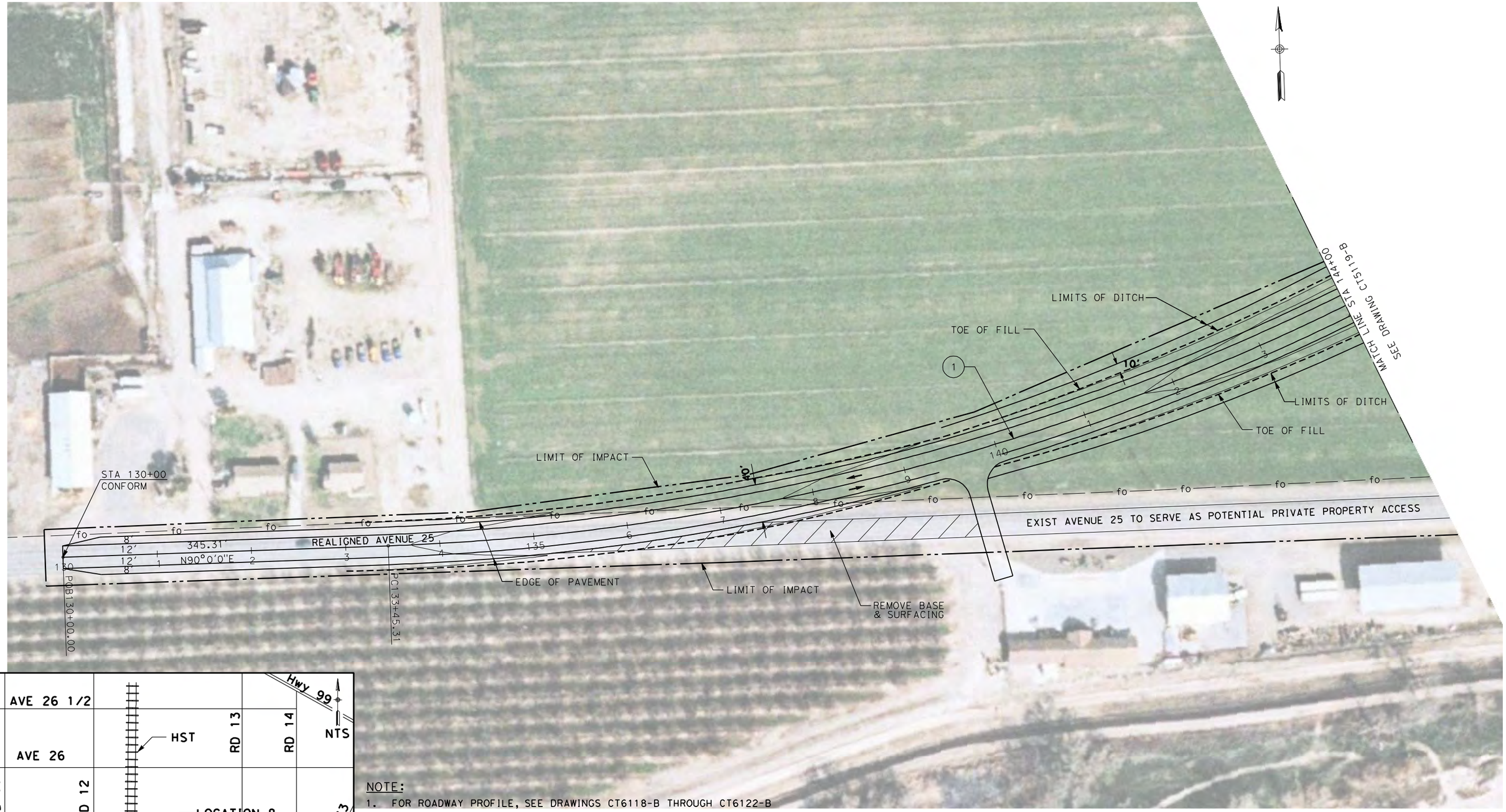
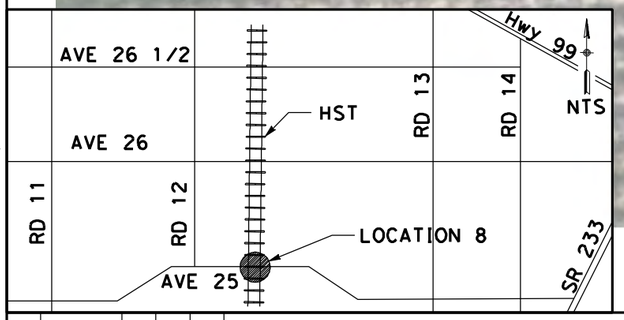
ReyesC1





NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6118-B THROUGH CT6122-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	2500.00	31°15'00"	699.19	1363.54	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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AECOM Technical Services, Inc.
2020 L Street, Suite 300
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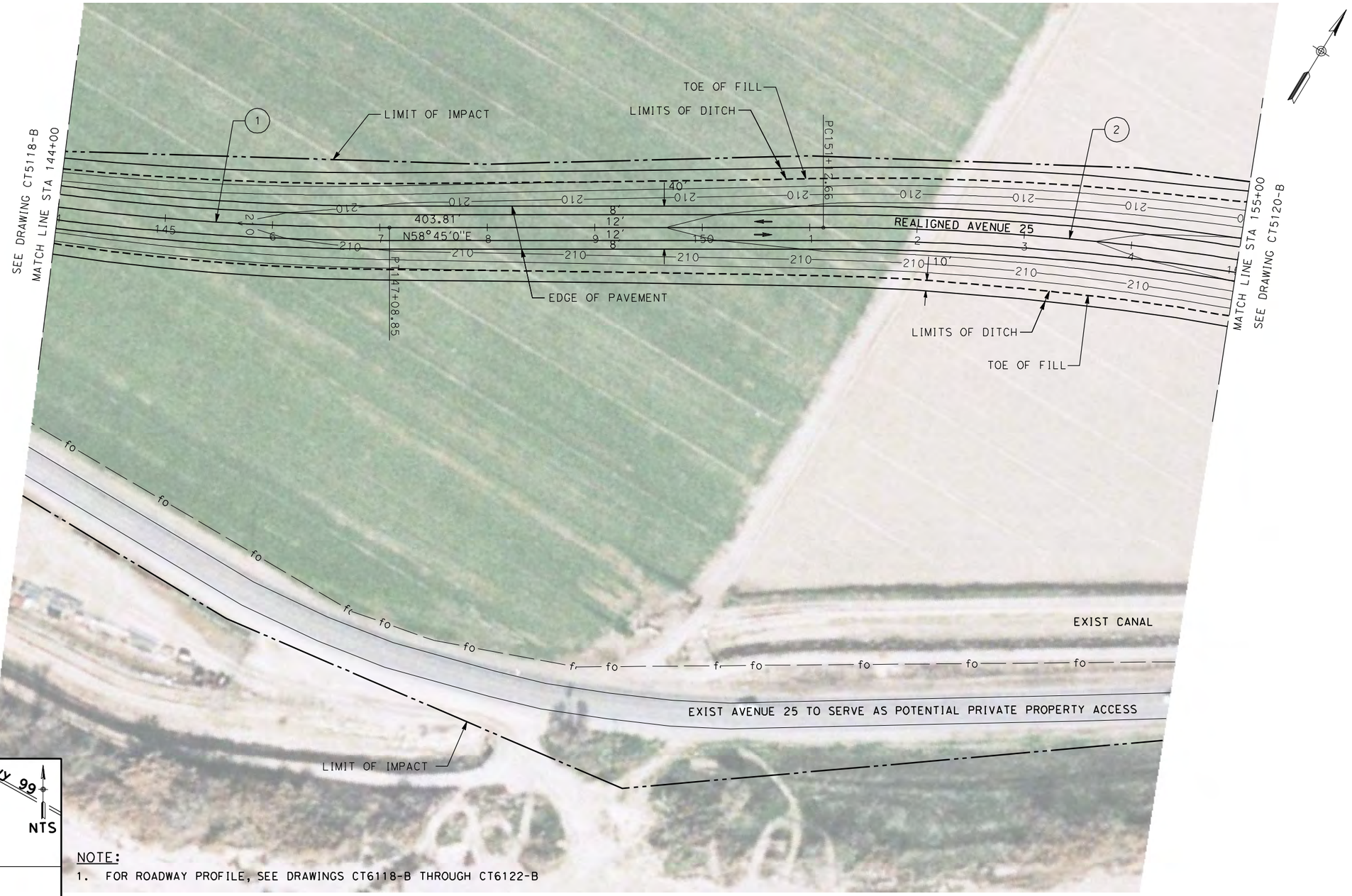
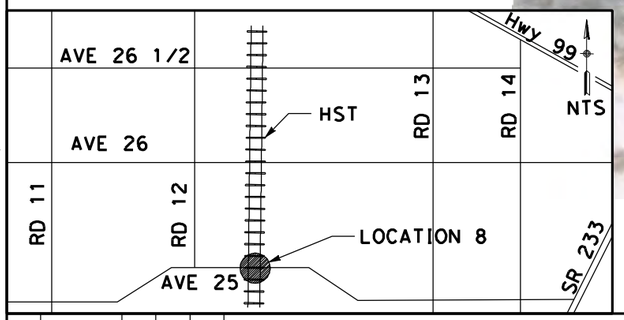
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5118-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6118-B THROUGH CT6122-B

CURVE DATA

No.	R	Δ	T	L	V
1	2500.00	31°15'00"	699.19	1363.54	45 MPH
2	2500.00	33°15'00"	746.47	1450.80	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 2 OF 5

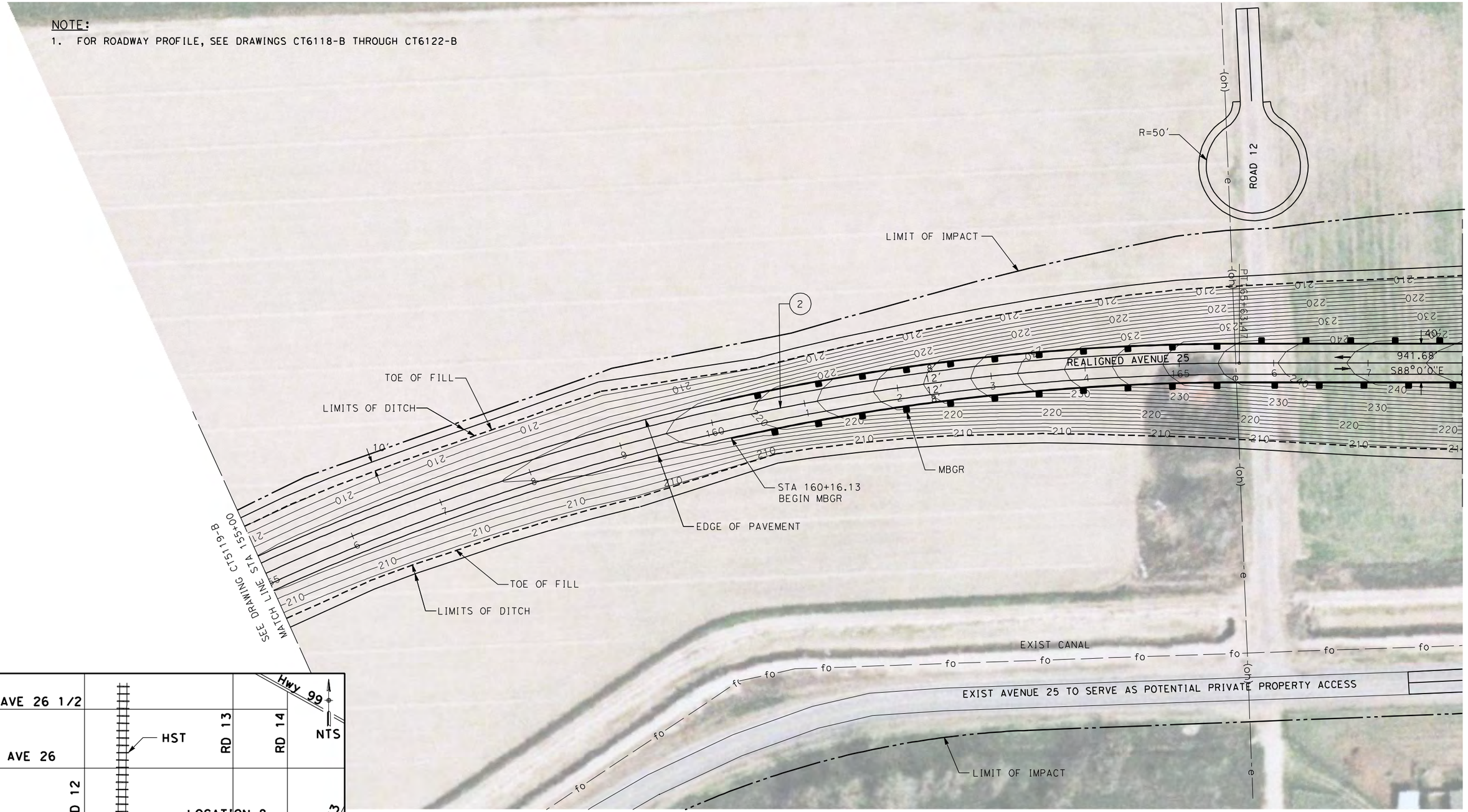
CONTRACT NO. HSR06-007
DRAWING NO. CT5119-B
SCALE AS SHOWN
SHEET NO. ### OF ###

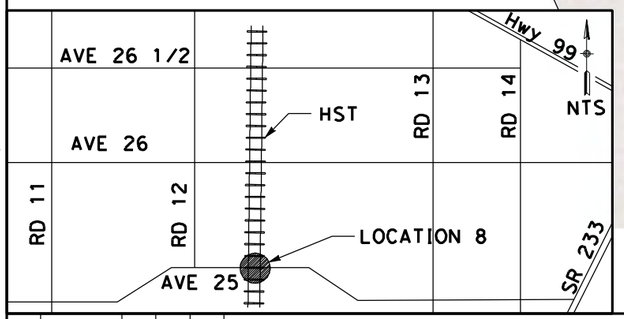
4/27/2011 6:23:53 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5119-B.dgn
ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5120-B.dgn
4/27/2011 6:24:01 PM
ReyesC1

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6118-B THROUGH CT6122-B





CURVE DATA

No.	R	Δ	T	L	V
(2)	2500.00	33°15'00"	746.47	1450.80	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5120-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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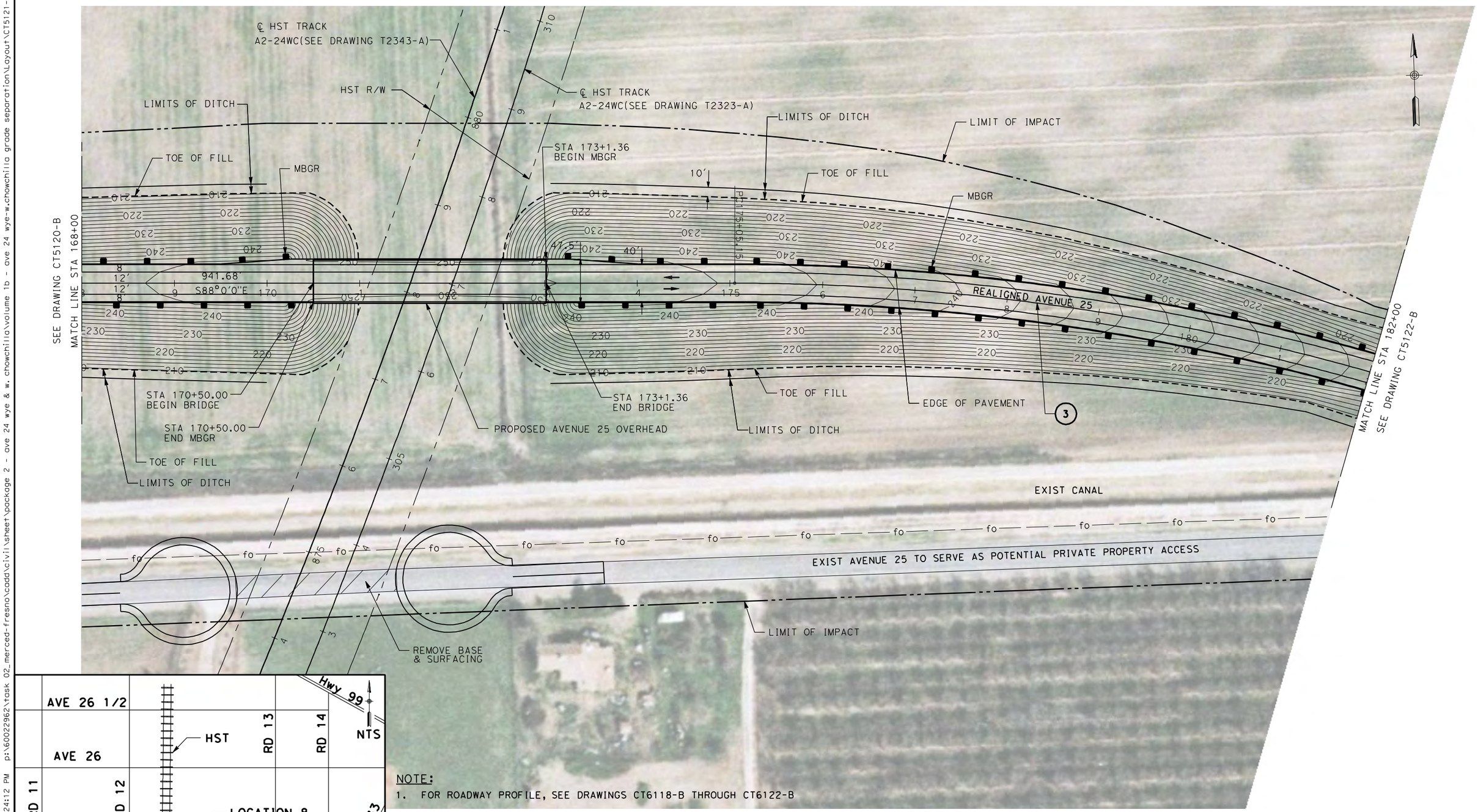
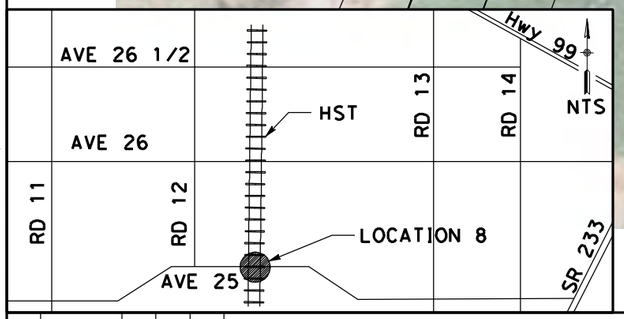
ReyesC1





NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6118-B THROUGH CT6122-B

CURVE DATA

No.	R	Δ	T	L	V
3	2500.00	24°45'07"	548.56	1080.00	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

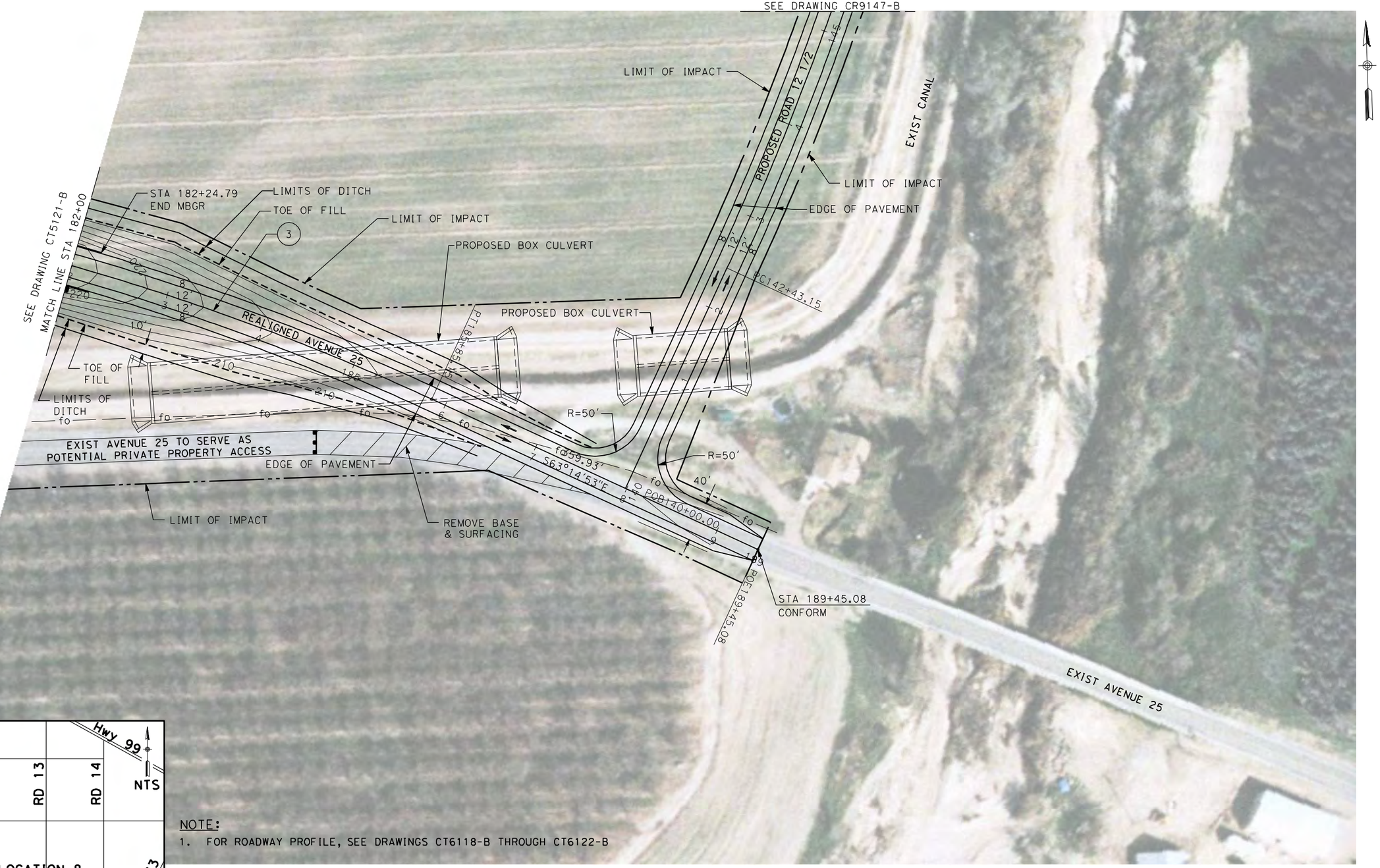
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

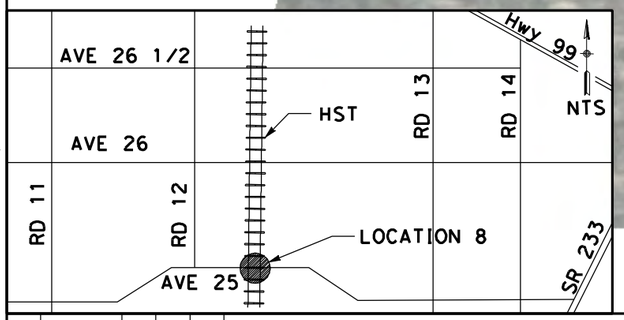
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5121-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5122-B.dgn
4/27/2011 6:24:21 PM
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6118-B THROUGH CT6122-B

CURVE DATA

No.	R	Δ	T	L	V
③	2500.00	24°45'07"	548.56	1080.00	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5122-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 6:24:29 PM
ReyesCI

CONFORM

ROAD 12

LIMIT OF IMPACT

TOE OF FILL

LIMITS OF DITCH

STA 146+40.14
BEGIN MBGR

PC146+23.56
R=50'

R=50'

LIMIT OF IMPACT

10'

MATCH LINE STA 149+00
SEE DRAWING CT5124-B

STA 135+00
CONFORM

40'

364.94'
N89°36'39"E

REALIGNED AVENUE 26

231.96'
N79°36'39"E

MBGR

LIMITS OF DITCH

EXIST AVENUE 26 (TO REMAIN OPEN DURING CONSTRUCTION)

PC138+64.94

PI 143+83.54

EDGE OF PAVEMENT

TOE OF FILL

PRIVATE PROPERTY ACCESS

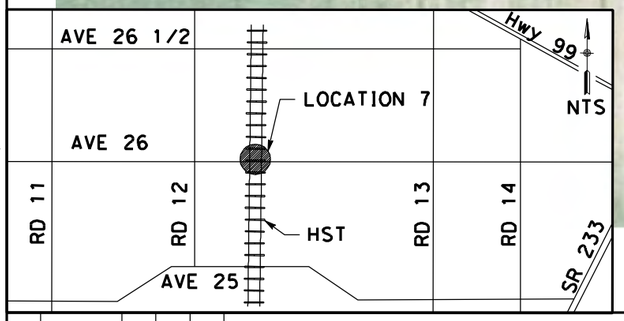
REMOVE BASE
& SURFACING

LIMIT
OF IMPACT

R=50'

LIMIT OF IMPACT

CONFORM



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6123-B THROUGH CT6125-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	10°00'00"	262.47	523.60	45 MPH
(2)	3000.00	10°21'05"	271.74	541.99	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 26
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5123-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5124-B.dgn
4/27/2011 6:24:42 PM
ReyesC1

HST R/W

℄ HST TRACKS
A2-24WC(T2344-A)

℄ HST TRACKS
A2-24WC(T2324-A)

PROPOSED AVENUE 26 OVERHEAD

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

STA 155+72.38
BEGIN BRIDGE

STA 157+52.38
BEGIN MBGR

TOE OF FILL

MBGR

LIMITS OF DITCH

SEE DRAWING CT5123-B
MATCH LINE STA 149+00

MATCH LINE STA 163+00
SEE DRAWING CT5125-B

REALIGNED AVENUE 26

1014.49'
N89°57'44"E

10'
40'
47.5'
12'
12'
8'
8'

MBGR

TOE OF FILL

EDGE OF PAVEMENT

LIMITS OF DITCH

TOE OF FILL

EXIST AVENUE 26 (TO REMAIN OPEN DURING CONSTRUCTION)

LIMITS OF DITCH

STA 155+72.38
END MBGR

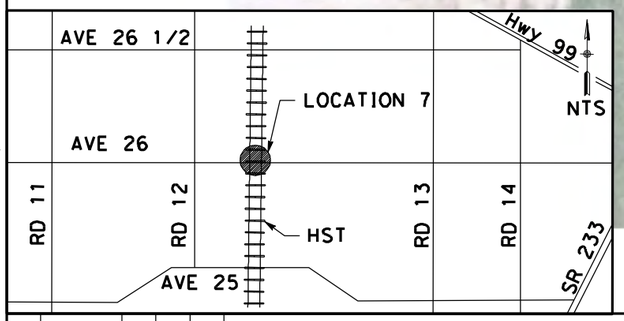
STA 157+52.38
END BRIDGE

REMOVE BASE
& SURFACING

LIMIT OF IMPACT

ST921+72.46

ST349+83.22



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6123-B THROUGH CT6125-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°21'05"	271.74	541.99	45 MPH
(3)	3000.00	10°02'14"	263.45	525.55	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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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

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 26
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5124-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheetpackage 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5125-B.dgn
4/27/2011 6:24:51 PM
ReyesC1

SEE DRAWING CR9147-B

SEE DRAWING CT5124-B
MATCH LINE STA 163+00

ROAD 12 1/2

TOE OF FILL
LIMITS OF DITCH
LIMIT OF IMPACT
MBGR
STA 166+39.73
END MBGR
R=50'
225.3'
S80°0'2"E
EDGE OF PAVEMENT
LIMIT OF IMPACT
R=50'
LIMITS OF DITCH
TOE OF FILL
LIMIT OF IMPACT
STA 177+55.77
CONFORM

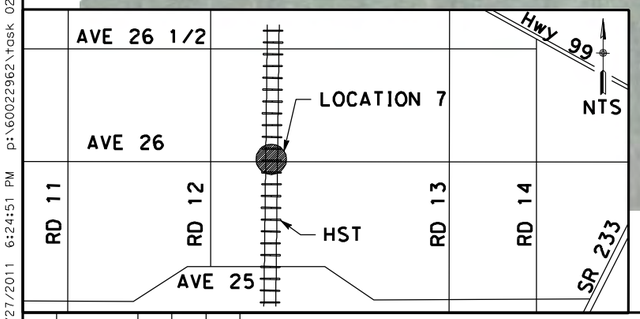
EXIST AVENUE 26 (TO REMAIN OPEN DURING CONSTRUCTION)

REALIGNED AVENUE 26
295.61'
N89°49'58"E

REMOVE BASE
& SURFACING
R=50'
TOE OF FILL
LIMIT OF IMPACT
EDGE OF PAVEMENT
LIMITS OF DITCH
R=50'
EDGE OF PAVEMENT

PI 174+60.16
PI 177+55.77

SEE DRAWING CR9147-B



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6123-B THROUGH CT6125-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°02'14"	263.45	525.55	45 MPH
(4)	3000.00	10°10'00"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 26
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5125-B
SCALE AS SHOWN
SHEET NO. ### OF ###

t:\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5126-B.dgn
4/27/2011 6:25:00 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5126-B.dgn
ReyesC1

SEE DRAWING CR9143-B

ROAD 12

EDGE OF PAVEMENT

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

R=50′

STA 140+00
CONFORM

40′

300.6′
S89°36′16″E

8′
12′
12′
8′

REALIGNED CROSS ROAD

POB140+00.00

RC143+00.60

PT148+44.9

214.14′
N80°0′0″E

STA 150+55
BEGIN MBGR

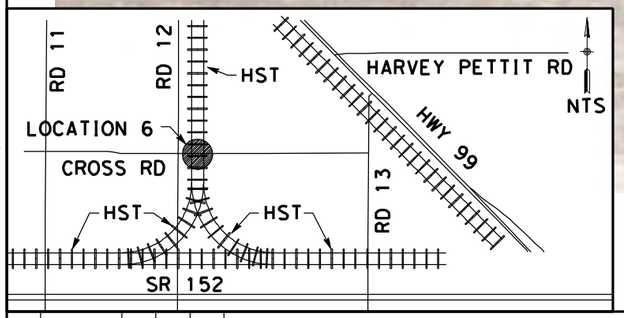
MBGR

EXIST CROSS RD (TO REMAIN OPEN DURING CONSTRUCTION)

REMOVE BASE
& SURFACING

MATCH LINE STA 154+00
SEE DRAWING CT5127-B

SEE DRAWING CR9143-B



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6126-B THROUGH CT6128-B

50 0 50 100
1"=50′

CURVE DATA

No.	R	Δ	T	L	V
1	3000.00	10°23′44″	272.90	544.31	45 MPH
2	3000.00	10°08′10″	266.06	530.73	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5126-B
SCALE AS SHOWN
SHEET NO. ### OF ###

℄ HST TRACK
A2-24WC(SEE DRAWING T2347-A)

HST R/W

℄ HST TRACK
A2-24WC(SEE DRAWING T2327-A)

LIMITS OF DITCH

LIMIT OF IMPACT

TOE OF FILL

STA 159+96.91
BEGIN BRIDGE

STA 161+76.91
BEGIN MBGR

MBGR

LIMITS OF DITCH

TOE OF FILL

SEE DRAWING CT5126-B
MATCH LINE STA 154+00

MATCH LINE STA 168+00
SEE DRAWING CT5128-B

REALIGNED CROSS ROAD

1056.64'
S89°51'50"E

MBGR

TOE OF FILL

EDGE OF PAVEMENT

STA 161+76.91
END BRIDGE

TOE OF FILL

LIMITS OF DITCH

EXIST CROSS RD (TO REMAIN OPEN DURING CONSTRUCTION)

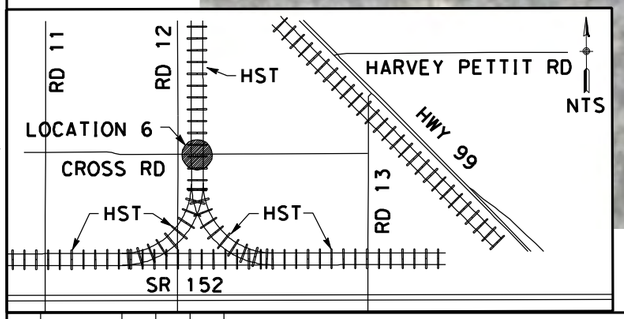
LIMITS OF DITCH

REMOVE BASE
& SURFACING

STA 159+96.91
END MBGR

PROPOSED CROSS ROAD OVERHEAD

LIMIT OF IMPACT



50 0 50 100
1"=50'

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°08'10"	266.06	530.73	45 MPH
(3)	3000.00	10°59'43"	288.74	575.71	45 MPH

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6126-B THROUGH CT6128-B

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5127-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:25:11 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5127-B.dgn
ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla grade separation\Layout\CT5128-B.dgn
4/27/2011 6:25:21 PM
ReyesC1

SEE DRAWING CT5127-B
MATCH LINE STA 168+00

STA 170+53.63
END MBGR

PRIVATE PROPERTY ACCESS

MBGR

LIMIT OF IMPACT

EDGE OF PAVEMENT

LIMITS OF DITCH

TOE OF FILL

STA 182+17.92
CONFORM

REALIGNED CROSS ROAD

TOE OF FILL

LIMITS OF DITCH

EXIST CROSS RD (TO REMAIN OPEN DURING CONSTRUCTION)

REMOVE BASE
& SURFACING

LIMIT OF IMPACT

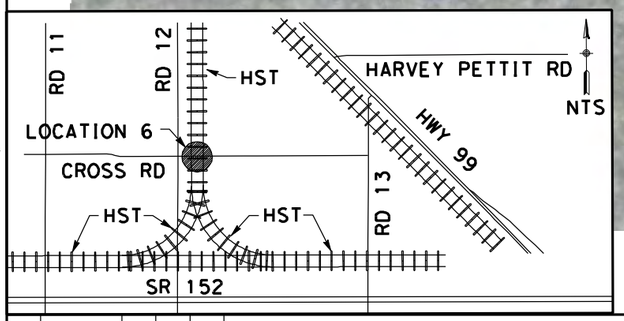
PT 180+62.07

POE 182+17.92

263.39'
S78°52'7"E

155.85'
S89°52'7"E

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6126-B THROUGH CT6128-B



50 0 50 100
1"=50'

CURVE DATA

No.	R	Δ	T	L	V
3	3000.00	10°59'43"	288.74	575.71	45 MPH
4	3000.00	11°00'00"	288.87	575.96	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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Technical Services, Inc.
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Sacramento, CA 95811

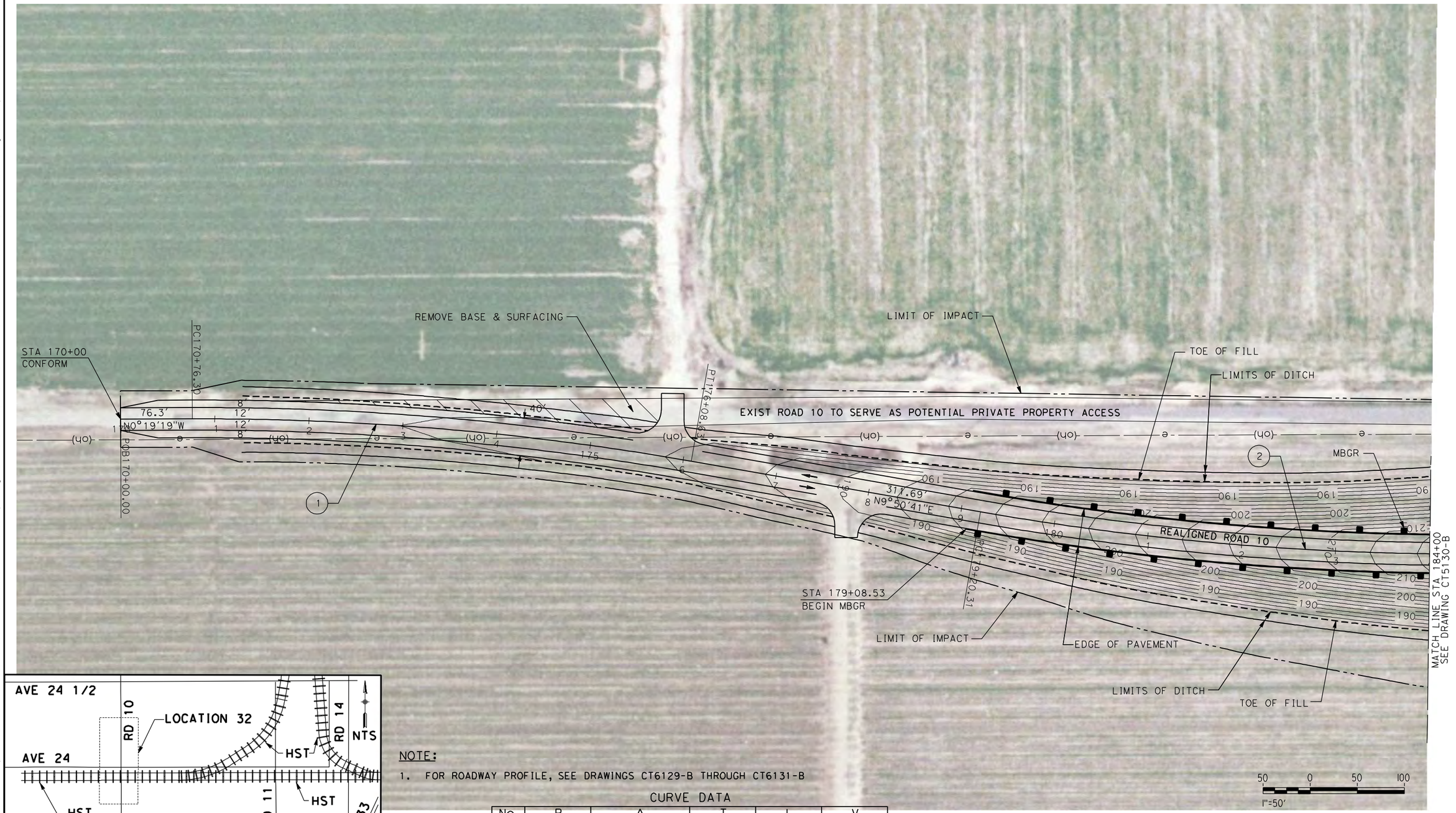
CH2MHILL

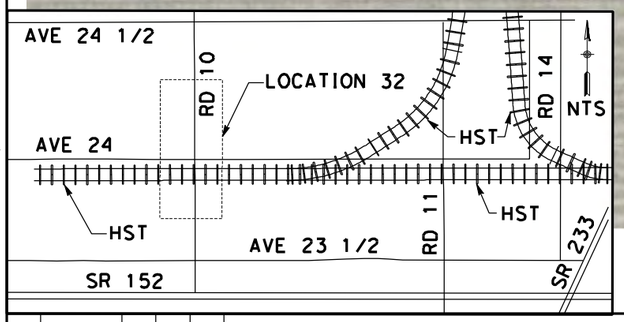
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5128-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6129-B THROUGH CT6131-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	79°50'0"	266.86	532.33	45 MPH
(2)	3000.00	79°40'17"	271.14	540.81	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALT 1
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5129-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:25:37 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla grade separation\Layout\CT5129-B.dgn
ReyesC1
ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5129-B.dgn

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5130-B.dgn
4/27/2011 6:25:54 PM ReyesC1

SEE DRAWING CR9159-B

℄ HST TRACKS
A2-24ML(SEE DRAWING T2302-A)

℄ HST TRACK
A2-24WCDO (SEE DRAWING T2421-A)

℄ HST TRACK
A2-24WCDO (SEE DRAWING T2411-A)

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

HST R/W

PROPOSED ROAD 10 OVERHEAD

REMOVE BASE & SURFACING

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

REMOVE BASE & SURFACING

EXIST ROAD 10 (TO REMAIN OPEN DURING CONSTRUCTION)

AVENUE 24

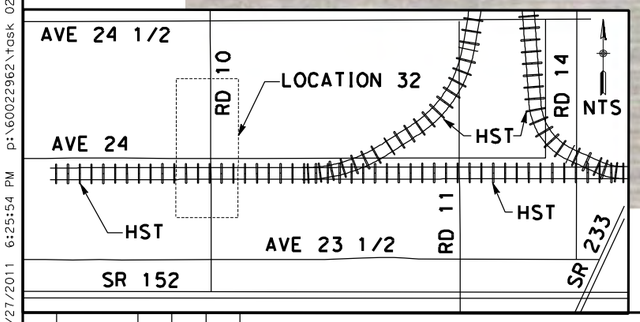
MATCH LINE STA 184+00
SEE DRAWING CT5129-B

MATCH LINE STA 198+00
SEE DRAWING CT5131-B

REALIGNED ROAD 10

1179.44'
N0°29'2"W

LIMITS OF DITCH
MBGR
TOE OF FILL
STA 188+28.88
BEGIN BRIDGE
STA 188+28.88
END MBGR
STA 192+71.40
BEGIN MBGR
STA 192+71.40
END BRIDGE
EDGE OF PAVEMENT
MBGR
TOE OF FILL
LIMITS OF DITCH
LIMIT OF IMPACT



SEE DRAWING CR9159-B

50 0 50 100
1"=50'

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6129-B THROUGH CT6131-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	79°40'17"	271.14	540.81	45 MPH
(3)	3000.00	79°52'52"	265.60	529.82	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALT 1
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5130-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5131-B.dgn
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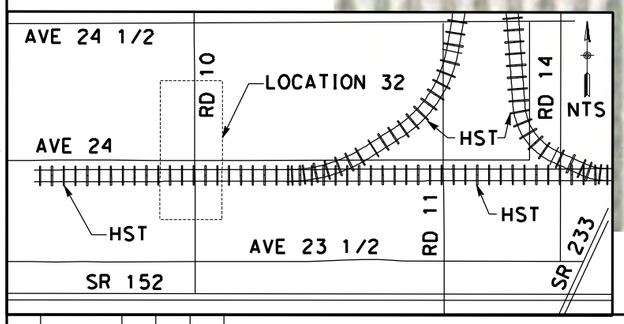
ReyesC1



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6129-B THROUGH CT6131-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	79°52'52"	265.60	529.82	45 MPH
(4)	3000.00	79°50'0"	266.86	532.33	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

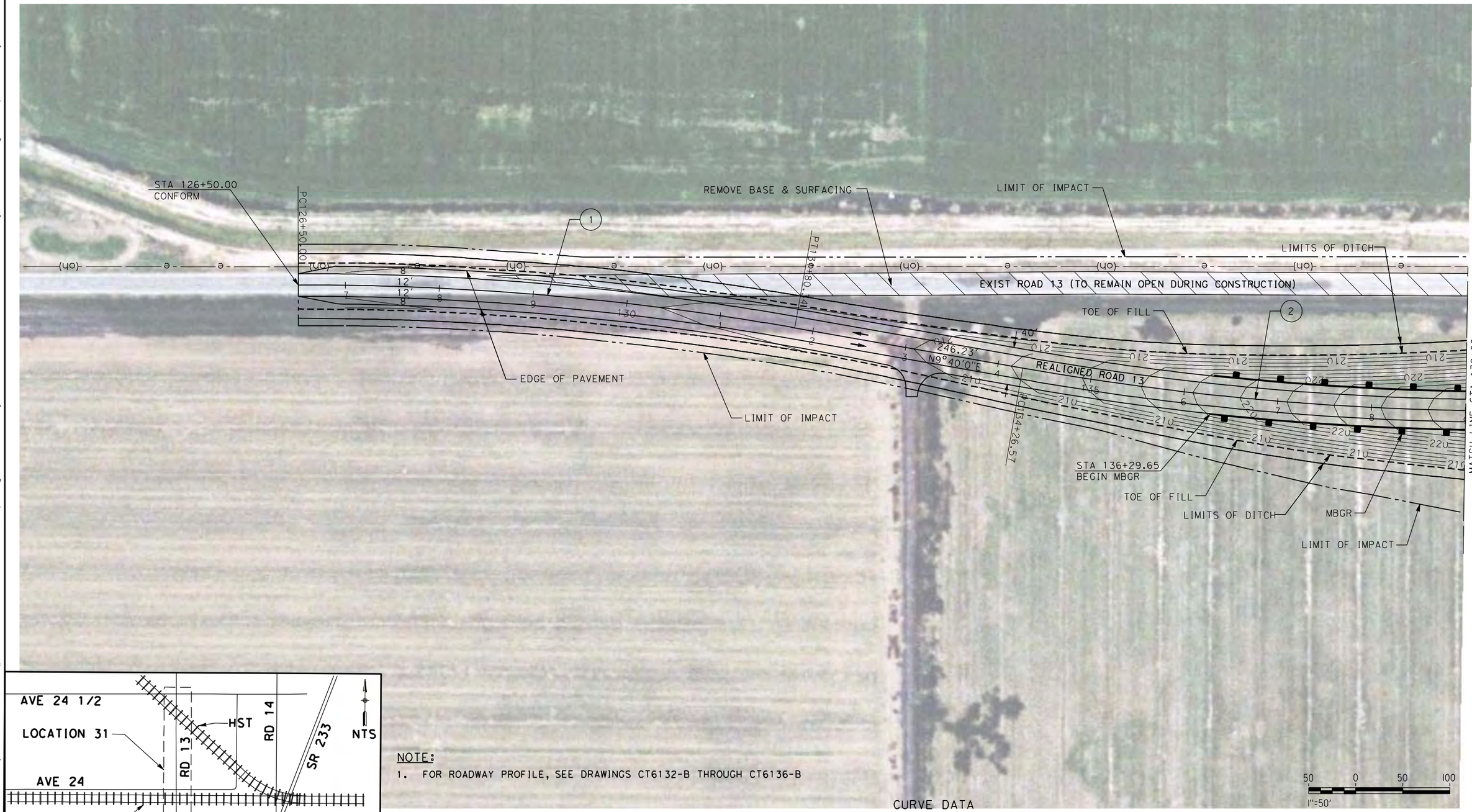
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

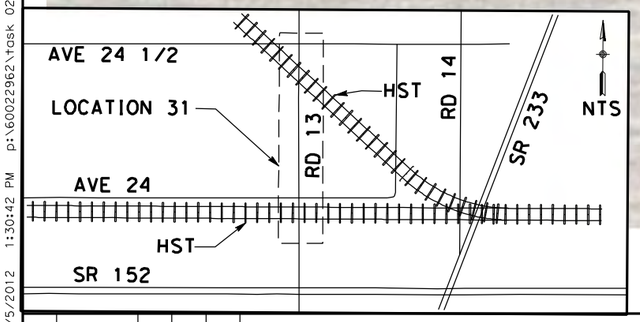
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALT 1
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5131-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheetpackage 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5132-B.dgn
1/5/2012 1:30:42 PM
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6132-B THROUGH CT6136-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	10°07'43"	265.86	530.34	45 MPH
(2)	3000.00	10°00'07"	262.52	523.71	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5132-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5133-B.dgn
1/5/2012 1:31:00 PM
ReyesC1

SEE DRAWING CR9163-B

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

HST R/W

EXIST AVENUE 24

LIMIT OF IMPACT

REMOVE BASE & SURFACING

EXIST ROAD 13 (TO REMAIN OPEN DURING CONSTRUCTION)

EXIST ROAD 13 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

EDGE OF PAVEMENT

TOE OF FILL

LIMITS OF DITCH

REALIGNED ROAD 13

3050.19'
S0°20'7"E

47.5'

40'

SEE DRAWING CT5132-B
MATCH LINE STA 139+00

MATCH LINE STA 153+00
SEE DRAWING CT5134-B

MBGR

STA 143+61.30
BEGIN BRIDGE

STA 143+61.30
END MBGR

STA 148+10.00
END BRIDGE

STA 148+10.00
BEGIN MBGR

LIMITS OF DITCH

TOE OF FILL

LIMIT OF IMPACT

TOE OF FILL

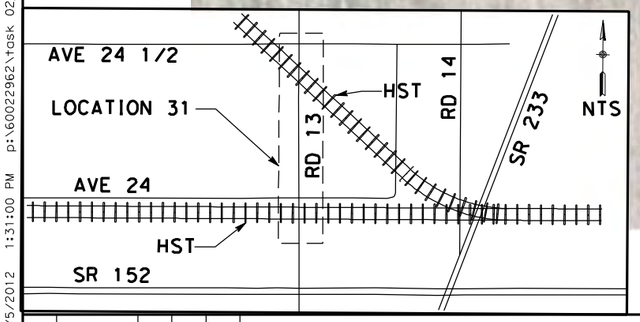
MBGR

PROPOSED ROAD 13 OVERHEAD

℄ HST TRACKS
A2-24ML(SEE DRAWING T2305-A)

PROPOSED SOUTH FRONTAGE ROAD

EXIST AVENUE 24



50 0 50 100
1"=50'

SEE DRAWING CR9163-B

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6132-B THROUGH CT6136-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°00'07"	262.52	523.71	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5133-B
SCALE AS SHOWN
SHEET NO. ### OF ###

1/5/2012 1:31:16 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla grade separation\Layout\CT5134-B.dgn
ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5134-B.dgn
ReyesC1

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2382-A)

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2362-A)

HST R/W

RETAINING WALL

STA 165+29.22
BEGIN MBGR

REMOVE BASE & SURFACING

LIMIT OF IMPACT

R=50'

RETAINING WALL

MBGR

LIMITS OF DITCH

EXIST ROAD 13 TO SERVE AS
POTENTIAL PRIVATE PROPERTY ACCESS

TOE OF FILL

SEE DRAWING CT5133-B
MATCH LINE STA 153+00

REALIGNED ROAD 13
3050.19'
S0°20'7"E

MATCH LINE STA 167+00
SEE DRAWING CT5135-B

MBGR

EDGE OF PAVEMENT

TOE OF FILL

LIMITS OF DITCH

LIMIT OF IMPACT

STA 162+92.00
BEGIN BRIDGE

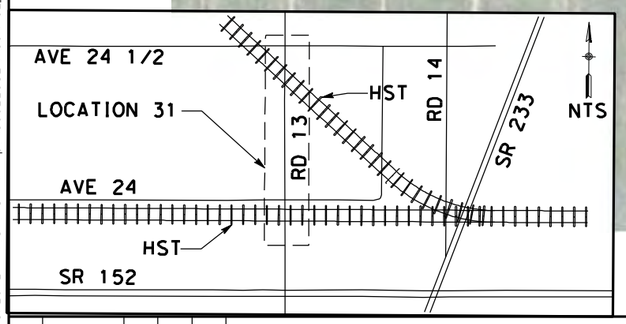
STA 165+29.22
END BRIDGE

TOE OF FILL

LIMITS OF DITCH

PROPOSED ROAD 13 OVERHEAD

STA 162+92.00
END MBGR



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6132-B THROUGH CT6136-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5134-B
SCALE AS SHOWN
SHEET NO. ### OF ###

SEE DRAWING CT5162-B

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2362-A)

HST R/W

LIMIT OF IMPACT

STA 172+52.75
BEGIN BRIDGE

REMOVE BASE & SURFACING

LIMITS OF DITCH

TOE OF FILL

STA 172+52.75
END MBGR

EXIST ROAD 13
(TO REMAIN OPEN DURING CONSTRUCTION)

AVENUE 24 1/2

STA 174+50.09
END BRIDGE

REALIGNED ROAD 13

211.26'
N0°20'7"W

3050.19'
S0°20'7"E

SEE DRAWING CT5134-B
MATCH LINE STA 167+00

MATCH LINE STA 181+00
SEE DRAWING CT5136-B

EDGE OF PAVEMENT

MBGR

TOE OF FILL

LIMITS OF DITCH

STA 170+00.47
END MBGR

LIMIT OF IMPACT

MATCH LINE
SEE ABOVE RIGHT

MATCH LINE
SEE BELOW LEFT

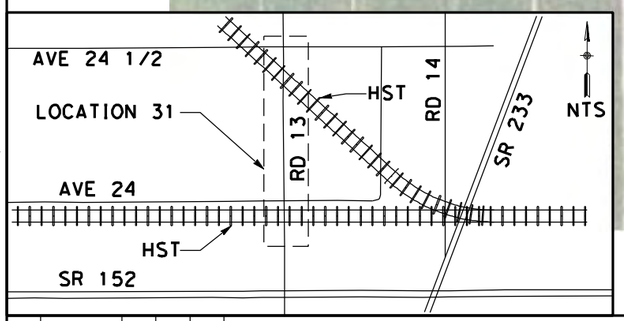
AVENUE 24 1/2

EDGE OF PAVEMENT

LIMIT OF IMPACT

CONFORM

EXIST AVENUE 24 1/2



CURVE DATA

No.	R	Δ	T	L	V
3	3000.00	10°00'00"	262.46	523.59	45 MPH
4	3000.00	10°01'26"	263.09	524.84	45 MPH

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6132-B THROUGH CT6136-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5135-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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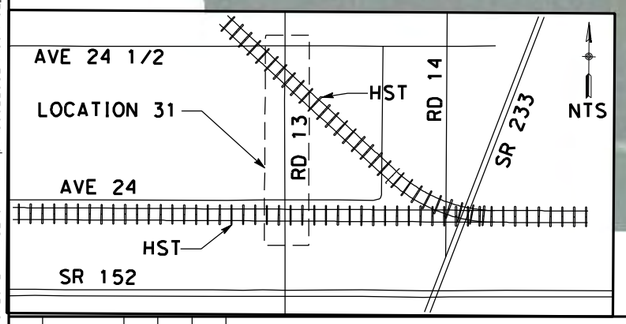
1/5/2012 1:31:42 PM
ReyesC1



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6132-B THROUGH CT6136-B

50 0 50 100
1"=50'

CURVE DATA

No.	R	Δ	T	L	V
(4)	3000.00	10°01'26"	263.09	524.84	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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

CH2MHILL

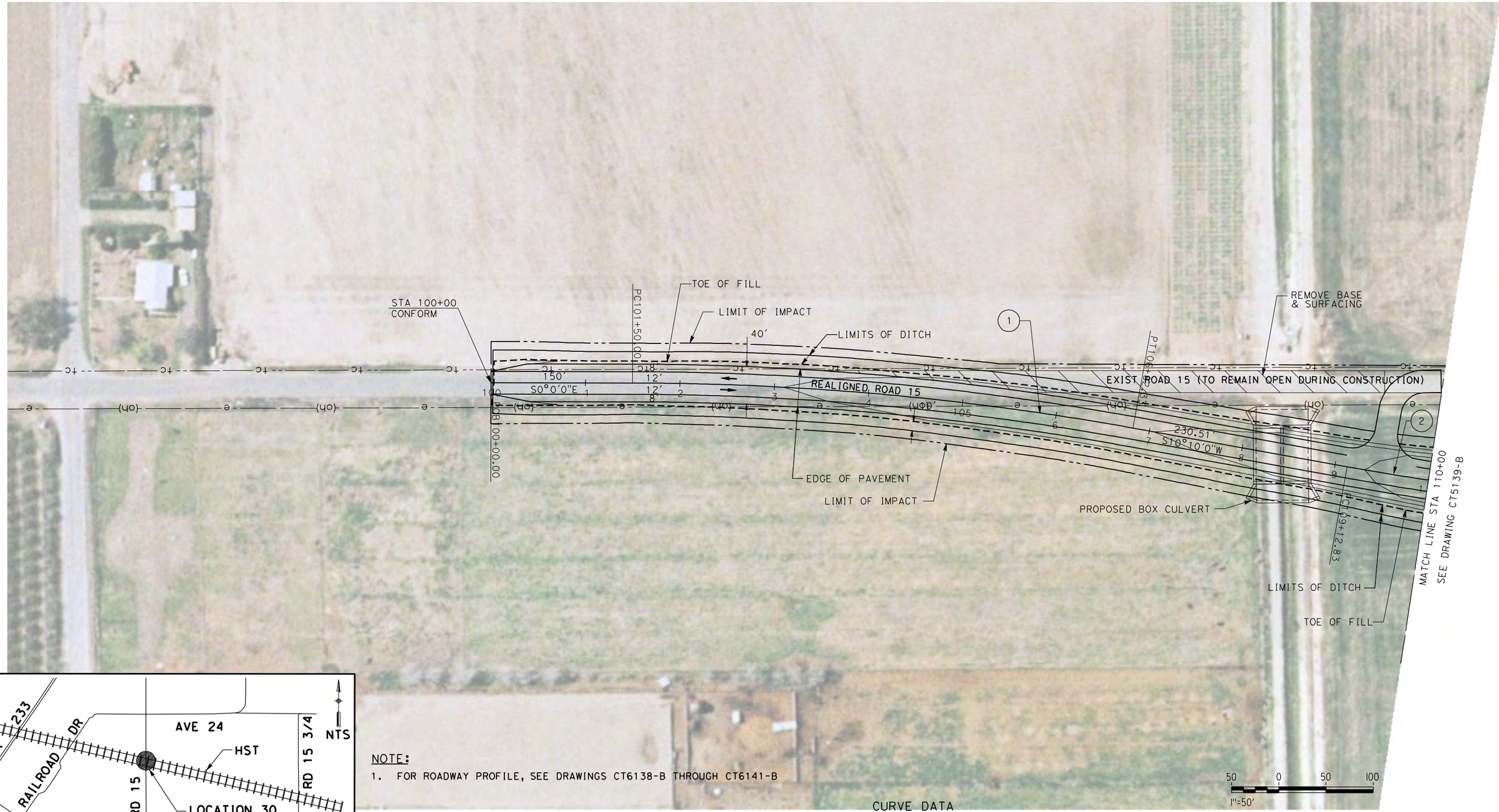
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

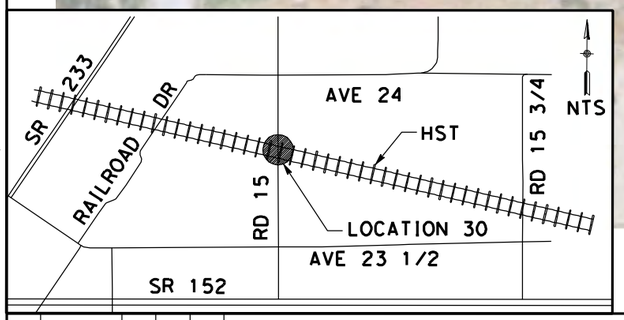
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5136-B
SCALE AS SHOWN
SHEET NO. ### OF ###

1/5/2012 1:32:07 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5136-B.dgn ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6138-B THROUGH CT6141-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	10°10'00"	266.86	532.33	45 MPH
(2)	3000.00	10°13'57"	268.60	535.78	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5138-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:27:51 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5138-B.dgn ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5139-B.dgn
4/27/2011 6:28:07 PM ReyesC1

SEE DRAWING CR9165-B

MATCH LINE STA 110+00
SEE DRAWING CT5138-B

MATCH LINE STA 125+00
SEE DRAWING CT5140-B

PROPOSED SOUTH FRONTAGE ROAD

EXIST AVENUE 24

HST R/W

℄ HST TRACKS
A2-24MLDO(SEE DRAWING T2401-A)

℄ HST TRACK
A2-24MCDO(SEE DRAWING T2380-A)

REMOVE BASE & SURFACING

PROPOSED ROAD 15 OVERHEAD

R=42′

R=50′

LIMIT OF IMPACT

EXIST ROAD 15 TO SERVE AS
POTENTIAL PRIVATE PROPERTY ACCESS

STA 118+54.96
END MBGR

TOE OF FILL

LIMITS OF DITCH

MBGR

10′

40′

REALIGNED ROAD 15

822.4′
S0°3′57"E

STA 112+00.00
BEGIN MBGR

EDGE OF PAVEMENT

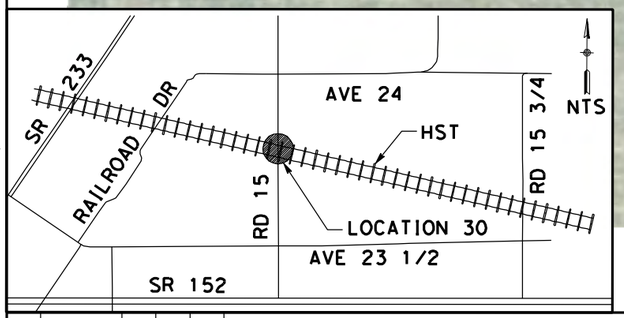
STA 118+54.96
BEGIN BRIDGE

STA 123+90.00
END BRIDGE

STA 123+90.00
BEGIN MBGR

LIMIT OF IMPACT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6138-B THROUGH CT6141-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°13′57"	268.60	535.78	45 MPH

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5139-B
SCALE AS SHOWN
SHEET NO. ### OF ###

t:\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5140-B.dgn
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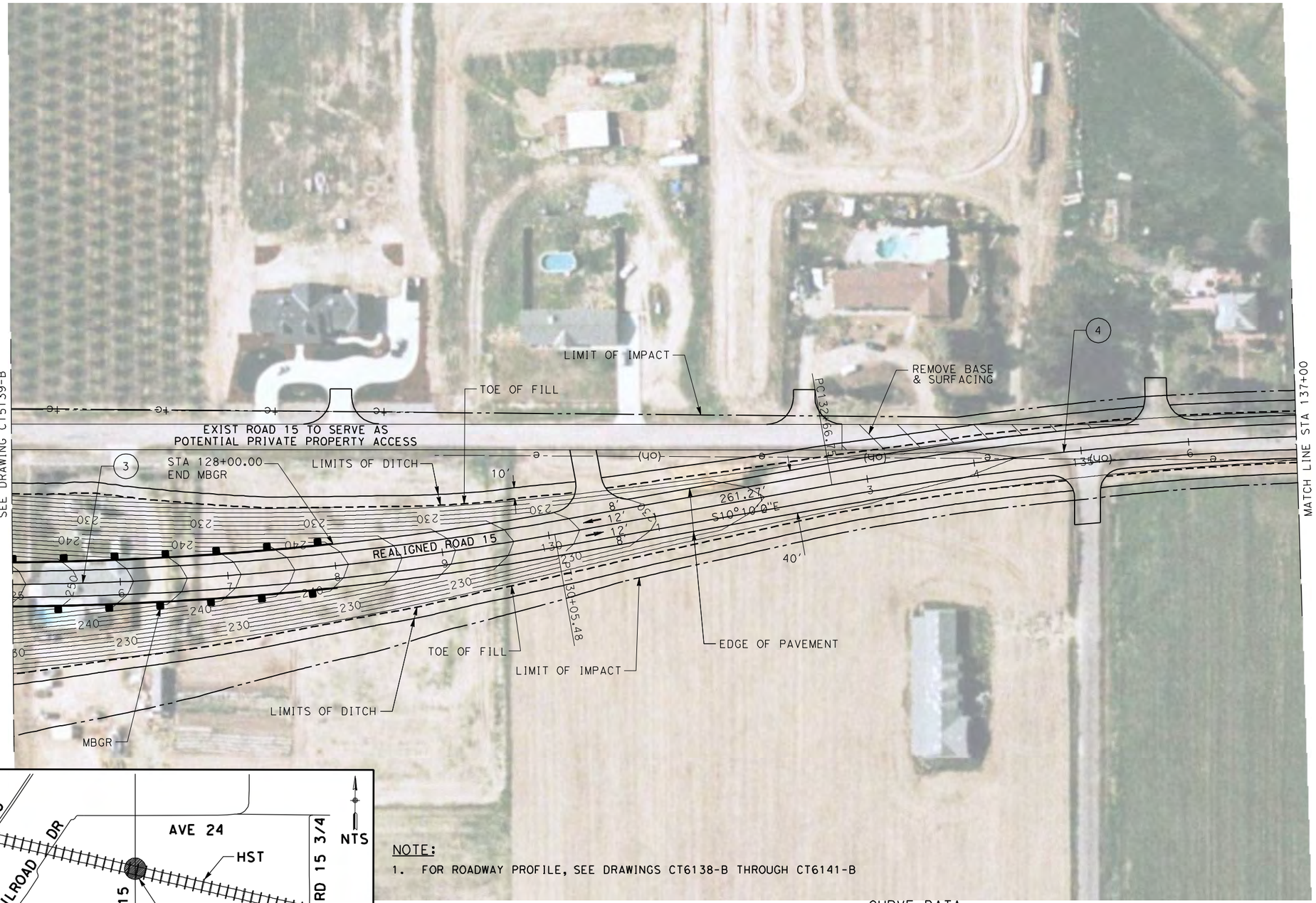
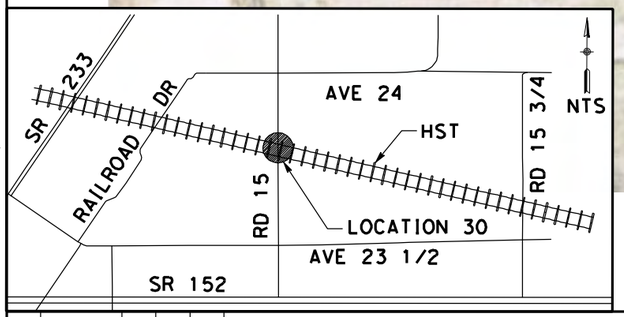
ReyesCl





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6138-B THROUGH CT6141-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°6'3"	265.12	528.88	45 MPH
(4)	3000.00	10°10'0"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

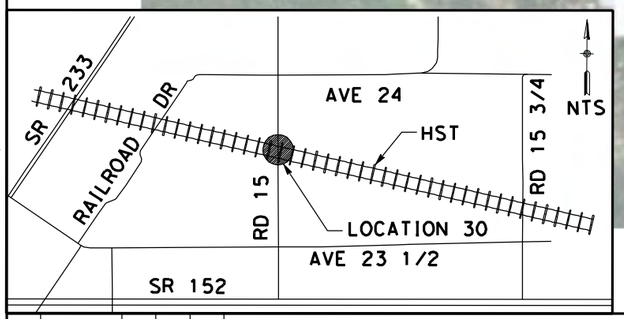
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5140-B
SCALE AS SHOWN
SHEET NO. ### OF ###



CURVE DATA

No.	R	Δ	T	L	V
(4)	3000.00	10°10'00"	266.86	532.33	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

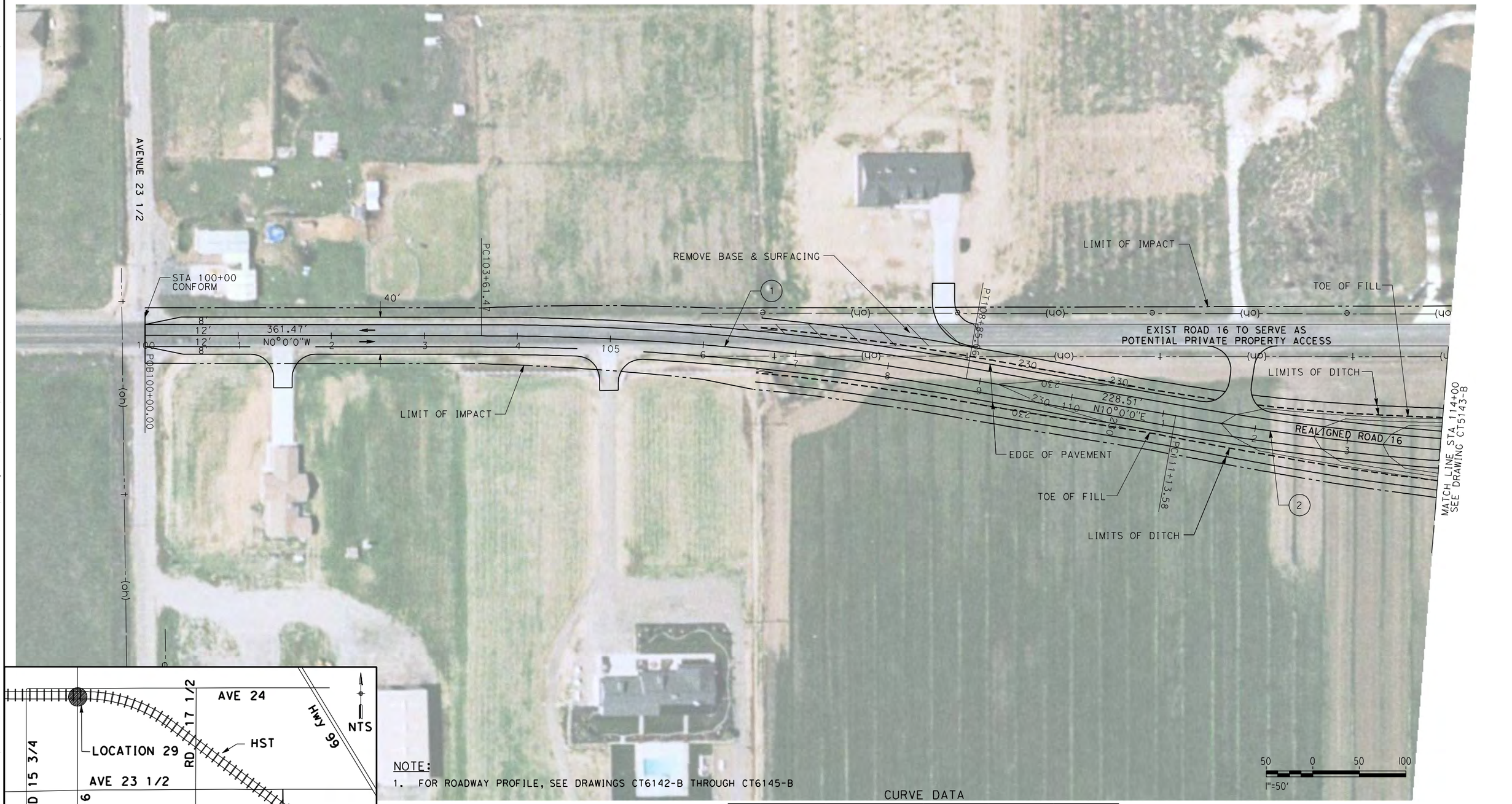
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

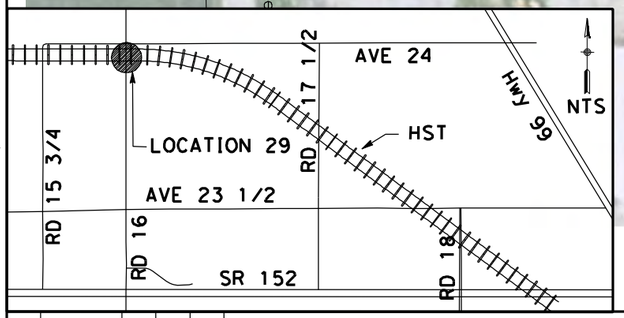
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5141-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:28:40 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5141-B.dgn
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6142-B THROUGH CT6145-B

CURVE DATA

No.	R	Δ	T	L	V
1	3000.00	10°10'00"	262.47	523.60	45 MPH
2	3000.00	10°03'09"	263.85	526.35	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5142-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:28:54 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5142-B.dgn ReyesCl

4/27/2011 6:29:09 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5143-B.dgn
ReyesCI

SEE DRAWING CR9165-A

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

℄ HST TRACKS
A2-24MLDO(SEE DRAWING T2402-A)

AVENUE 24

LIMITS OF DITCH
TOE OF FILL
LIMIT OF IMPACT
EXIST ROAD 16 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

STA 125+66.67
END MBGR

LIMITS OF DITCH
TOE OF FILL
MBGR
PROPOSED BRIDGE
MBGR
TOE OF FILL

MATCH LINE STA 114+00
SEE DRAWING CT5142-B

STA 124+19.45
BEGIN MBGR

2249.82'
N0°3'9.24"W

REALIGNED ROAD 16

MATCH LINE STA 128+00
SEE DRAWING CT5144-B

STA 114+86.99
BEGIN MBGR

LIMIT OF IMPACT
LIMITS OF DITCH

EDGE OF PAVEMENT

STA 121+32.80
BEGIN BRIDGE

TOE OF FILL
MBGR

STA 121+32.80
END MBGR

PROPOSED ROAD 16
OVERHEAD

STA 124+19.45
END BRIDGE

STA 125+66.67
BEGIN BRIDGE

STA 127+21.78
END BRIDGE

STA 127+21.78
BEGIN MBGR

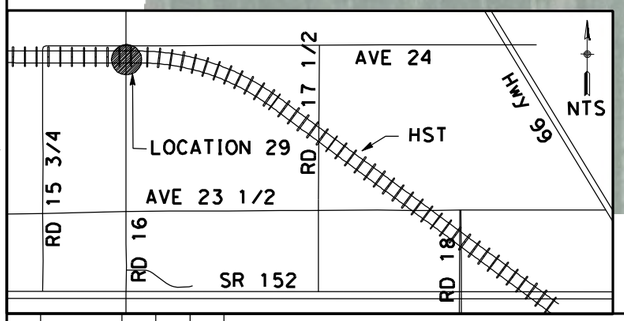
TOE OF FILL
LIMITS OF DITCH

TOE OF FILL
LIMIT OF IMPACT
LIMITS OF DITCH

HST R/W

AVENUE 24

SEE DRAWING CR9165-A



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6142-B THROUGH CT6145-B

50 0 50 100
1"=50'

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°03'09"	263.85	526.35	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

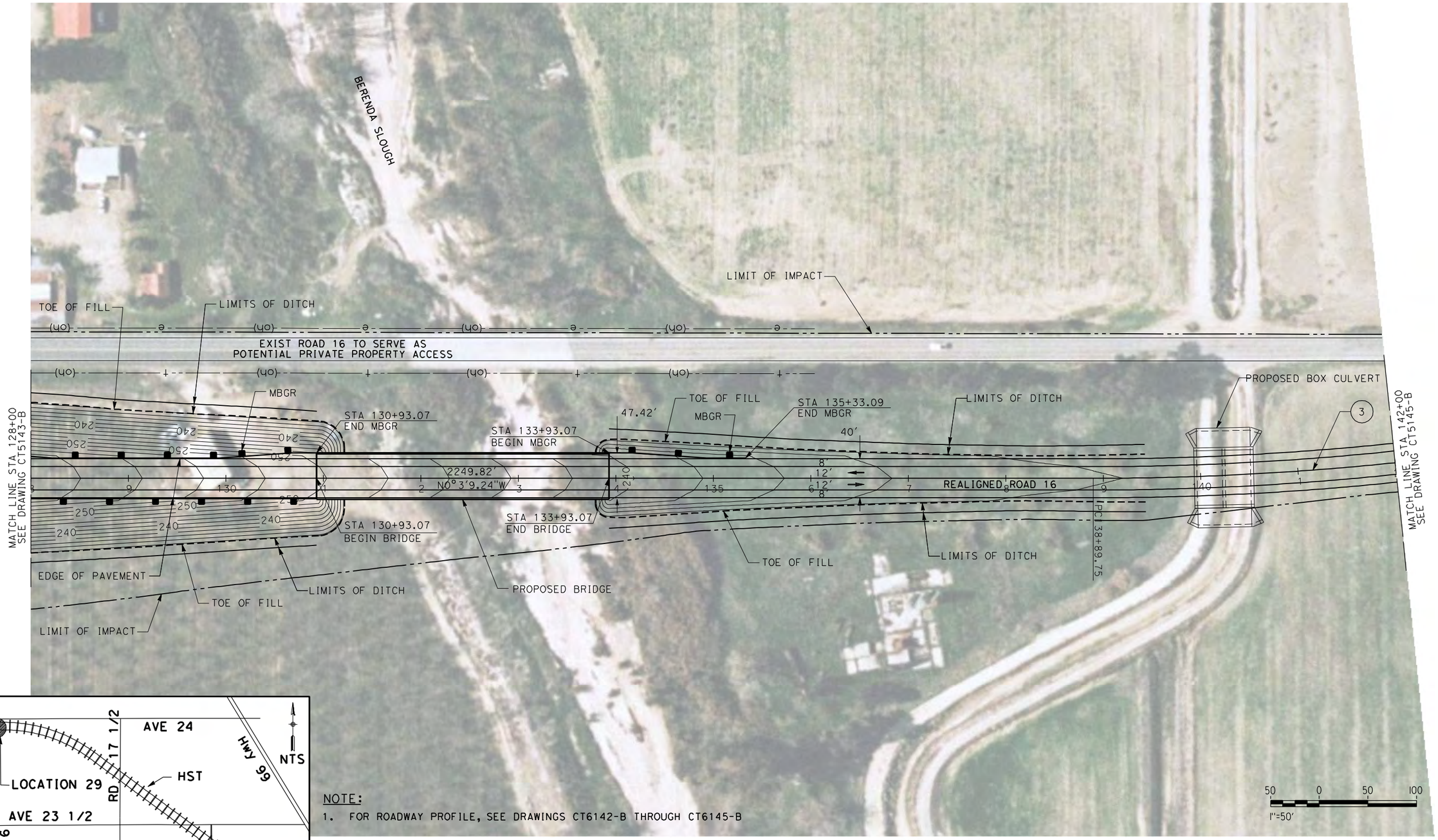
CH2MHILL

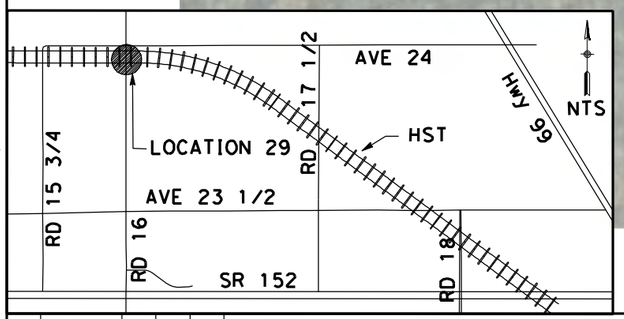
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5143-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6142-B THROUGH CT6145-B

CURVE DATA

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5144-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:29:23 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5144-B.dgn
ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5145-B.dgn
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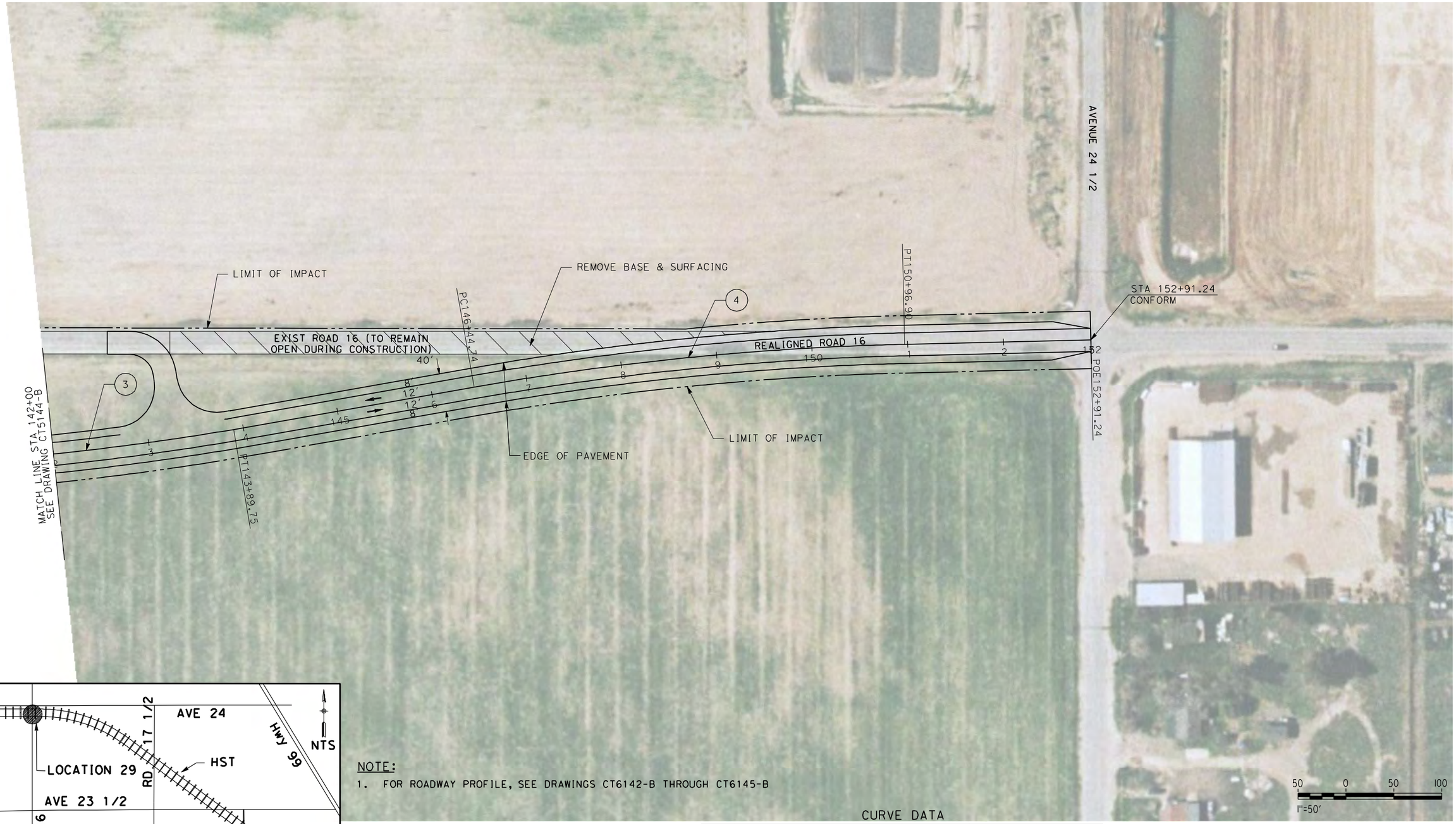
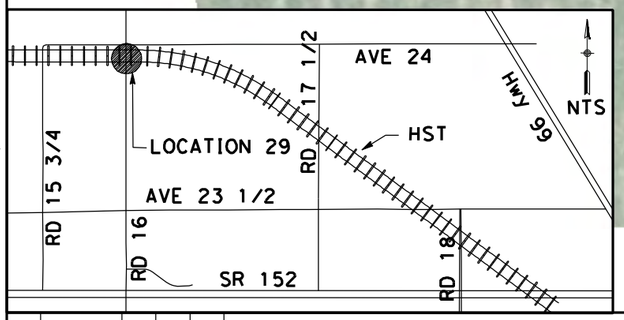
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6142-B THROUGH CT6145-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	9°32'57"	250.58	500.00	45 MPH
(4)	3000.00	8°38'08"	226.51	452.16	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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

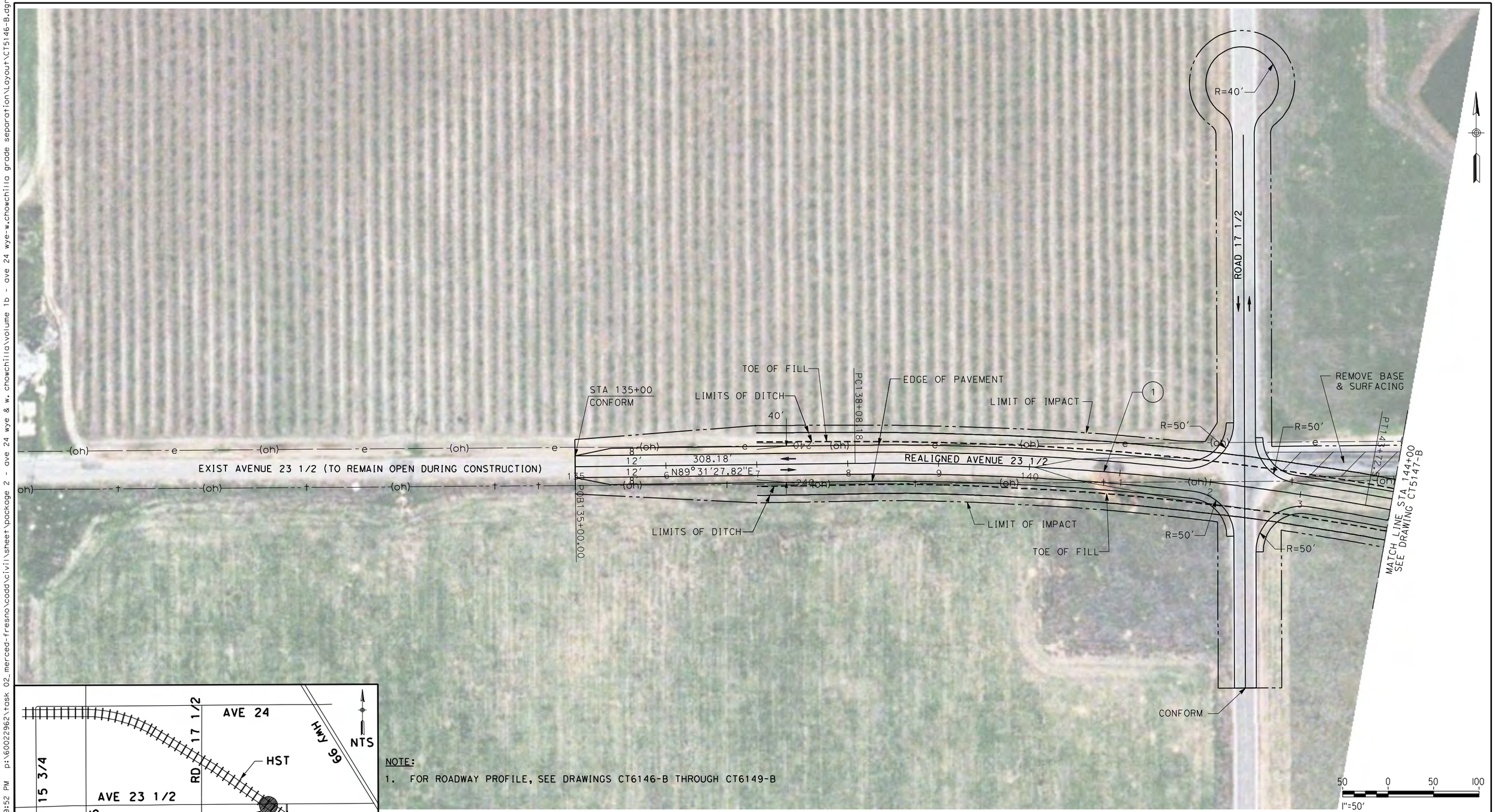
CH2MHILL

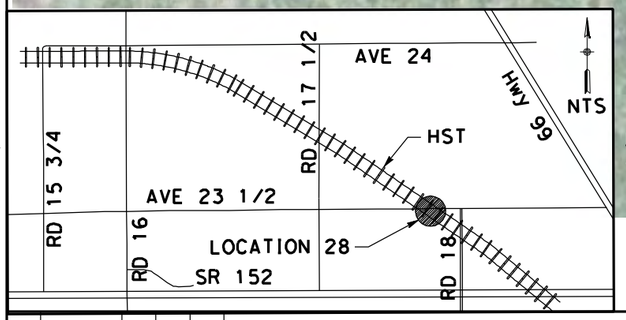
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5145-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6146-B THROUGH CT6149-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	10°46'41"	283.00	564.34	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5146-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:29:52 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5146-B.dgn
ReyesC1

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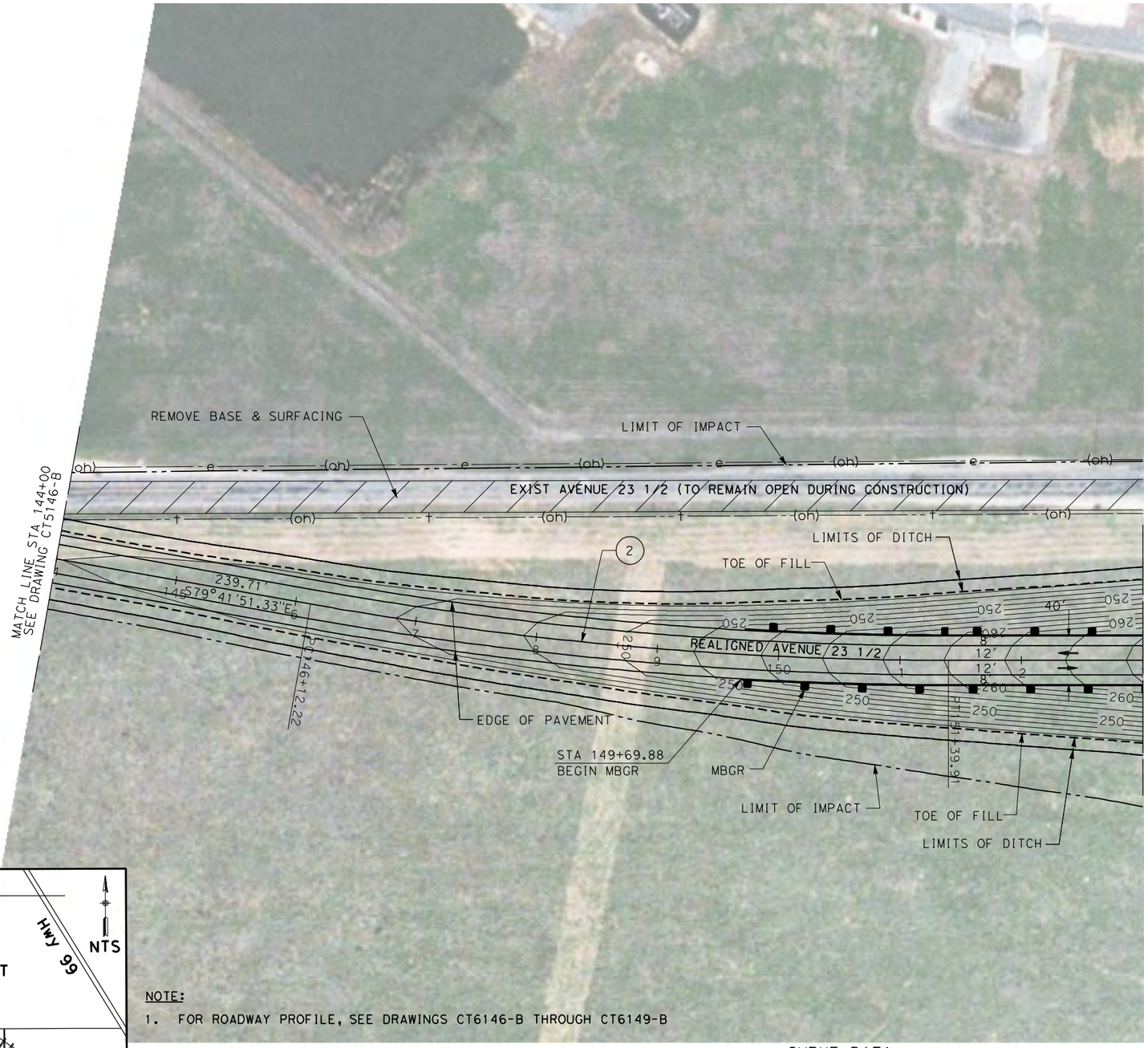

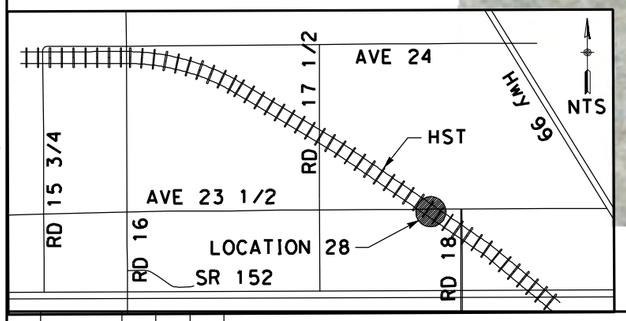

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6146-B THROUGH CT6149-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°04'41"	264.53	527.69	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5147-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheetpackage 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5148-B.dgn
4/27/2011 6:30:21 PM
ReyesC1

℄ HST TRACKS
A2-24MLDO (SEE DRAWING T2402-A)

REMOVE BASE & SURFACING

RETAINING WALL

R=50'

LIMIT OF IMPACT

LIMITS OF DITCH

EXIST AVENUE 23 1/2 TO SERVE AS
POTENTIAL PRIVATE PROPERTY ACCESS

TOE OF FILL

PROPOSED
AVENUE 23 1/2 OVERHEAD

LIMITS OF DITCH

TOE OF FILL

REALIGNED AVENUE 23 1/2

1418.35'
S89°46'32.38"E

MATCH LINE STA 153+00
SEE DRAWING CT5147-B

MATCH LINE STA 167+00
SEE DRAWING CT5149-B

STA 157+03.60
BEGIN BRIDGE

STA 157+03.60
END MBGR

STA 160+64.56
BEGIN MBGR

STA 160+64.56
END BRIDGE

EDGE OF PAVEMENT

TOE OF FILL

LIMITS OF DITCH

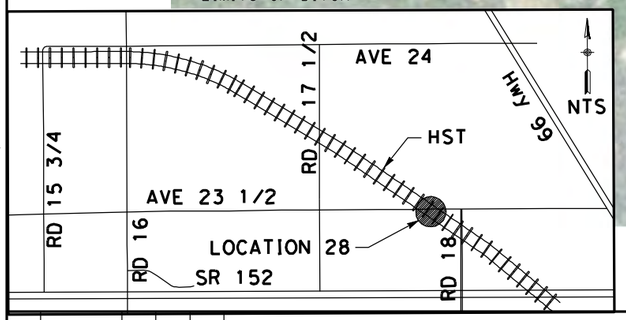
TOE OF FILL

LIMITS OF DITCH

RETAINING WALL

HST R/W

LIMIT OF IMPACT



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6146-B THROUGH CT6149-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5148-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5149-B.dgn
4/27/2011 6:30:35 PM
ReyesC1

CHOWCHILLA BLVD

UPRR

REMOVE BASE & SURFACING

LIMIT OF IMPACT

TOE OF FILL

EXIST AVENUE 23 1/2 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

EXIST AVENUE 23 1/2 (TO REMAIN OPEN DURING CONSTRUCTION)

REALIGNED AVENUE 23 1/2

PC174+60.47

PT179+93.09

STA 167+69.37
END MBGR

MBGR

LIMITS OF DITCH

40'

368.51'
N80°1'32.94"E

STA 181+10.06
CONFORM

POE181+10.06

EDGE OF PAVEMENT

TOE OF FILL

170+92.26

MATCH LINE STA 167+00
SEE DRAWING CT5148-B

LIMITS OF DITCH

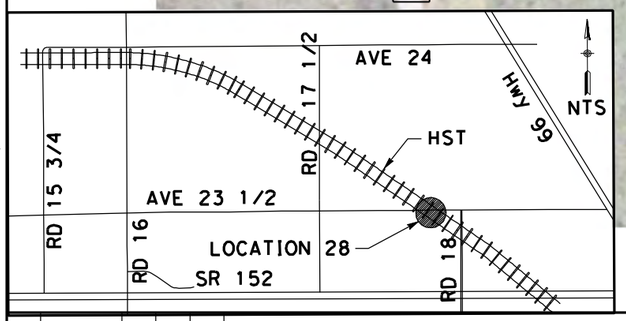
LIMIT OF IMPACT

ROAD 18

R=50'

(3)

(4)



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6146-B THROUGH CT6149-B

50 0 50 100
1"=50'

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°11'55"	267.70	533.99	45 MPH
(4)	3000.00	10°10'00"	266.86	532.33	45 MPH

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

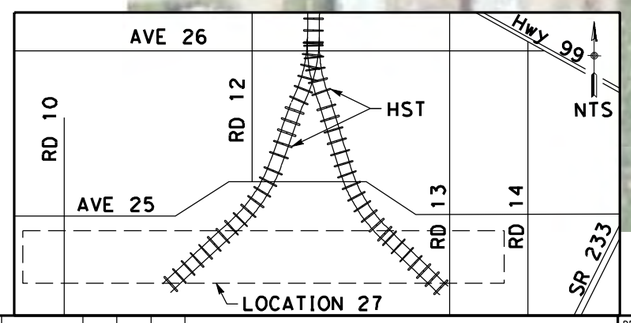
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5149-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5151-B.dgn
1/5/2012 1:32:17 PM ReyesC1



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3500.00	44°36'04"	1435.49	2724.52	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 1 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5151-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5152-B.dgn
1/5/2012 1:32:27 PM
ReyesC1

EXIST AVENUE 25 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

LIMIT OF IMPACT

LIMITS OF DITCH

PROPOSED CONNECTOR ROAD 1

LIMIT OF IMPACT

TOE OF FILL

R=50'

R=50'

1

MATCH LINE STA 176+00
SEE DRAWING CT5151-B

REALIGNED AVENUE 25

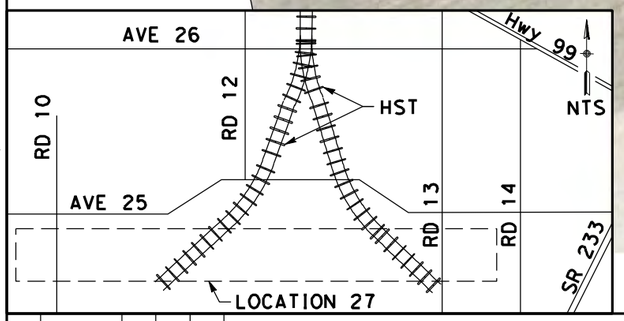
EDGE OF PAVEMENT

LIMITS OF DITCH

LIMIT OF IMPACT

TOE OF FILL

MATCH LINE STA 190+00
SEE DRAWING CT5153-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

CURVE DATA

No.	R	Δ	T	L	V
1	3500.00	44°36'04"	1435.49	2724.52	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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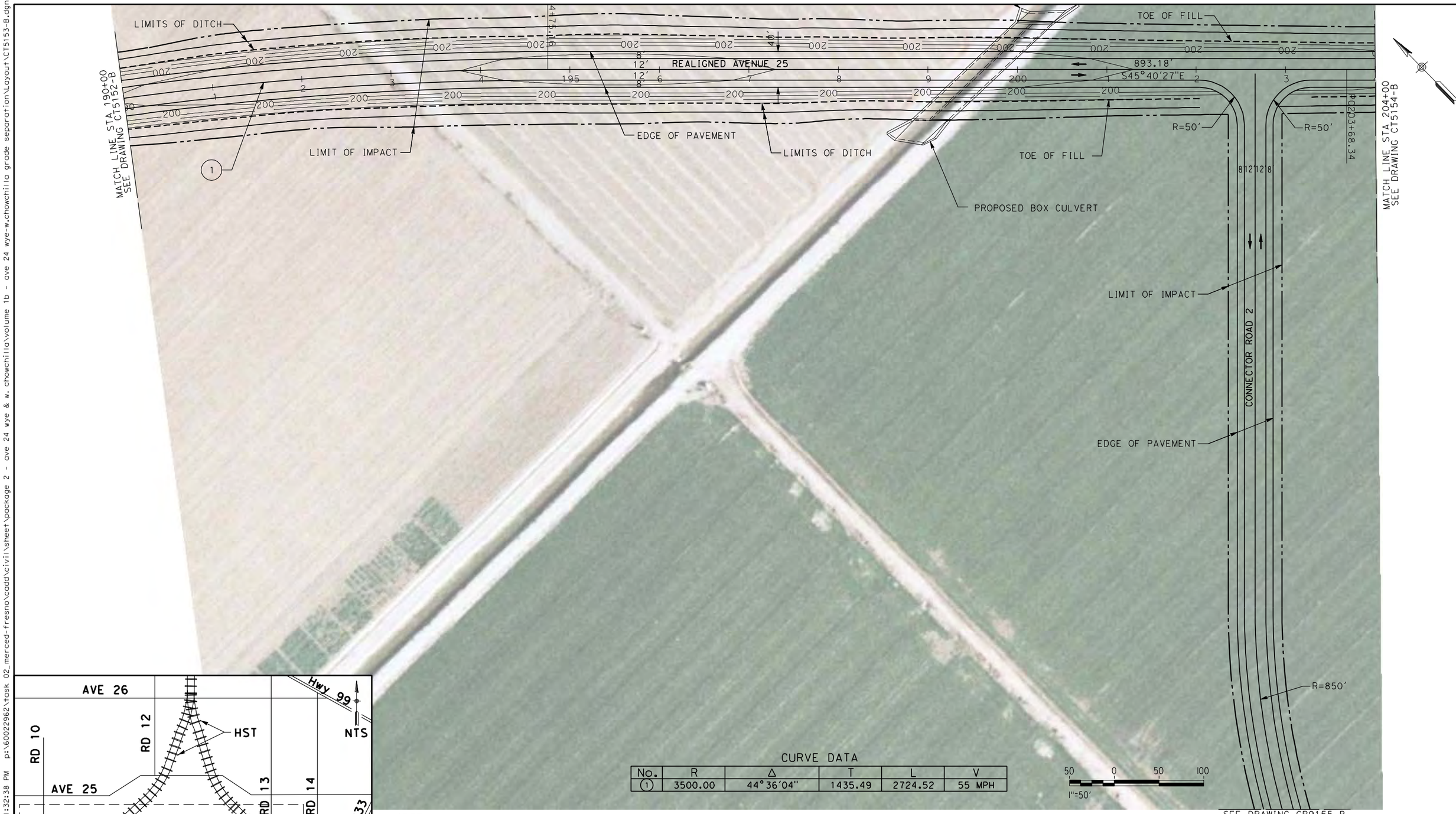
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

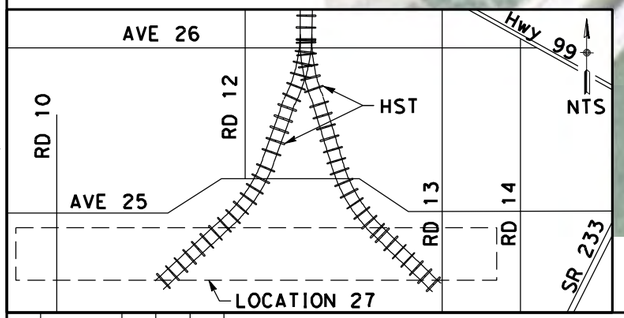
UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 2 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5152-B
SCALE AS SHOWN
SHEET NO. ### OF ###



CURVE DATA

No.	R	Δ	T	L	V
(1)	3500.00	44°36'04"	1435.49	2724.52	55 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 3 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5153-B
SCALE AS SHOWN
SHEET NO. ### OF ###

1/5/2012 1:32:38 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5153-B.dgn
ReyesC1

1/5/2012 1:32:48 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla grade separation\Layout\CT5154-B.dgn
ReyesC1

EXIST ROAD 11

MATCH LINE STA 218+00
SEE DRAWING CT5155-B

R=50'

TOE OF FILL

REALIGNED AVENUE 25

2

LIMITS OF DITCH

LIMIT OF IMPACT

MATCH LINE STA 204+00
SEE DRAWING CT5153-B

EDGE OF PAVEMENT

LIMITS OF DITCH

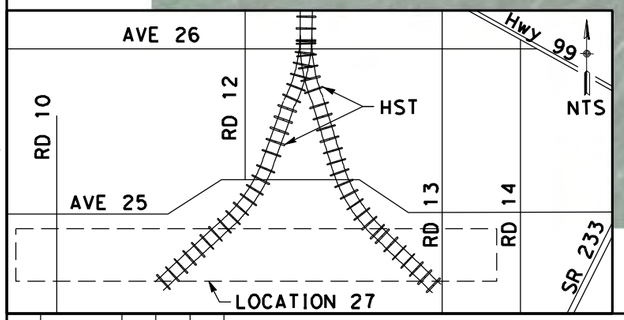
TOE OF FILL

LIMIT OF IMPACT

LIMIT OF IMPACT

EXIST AVENUE 24 1/2

SEE DRAWING CR9155-B



ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3500.00	44°19'33"	1425.68	2707.71	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 4 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5154-B
SCALE AS SHOWN
SHEET NO. ### OF ###

1/5/2012 1:32:58 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5155-B.dgn

CONFORM

R=50'

MATCH LINE STA 218+00
SEE DRAWING CT5154-B

R=50'

CONFORM

R=50'

TOE OF FILL

R=50'

LIMIT OF IMPACT

LIMITS OF DITCH

EXIST
AVENUE 24 1/2

LIMIT OF IMPACT

PROPOSED BOX CULVERT

TOE OF FILL

LIMITS OF DITCH

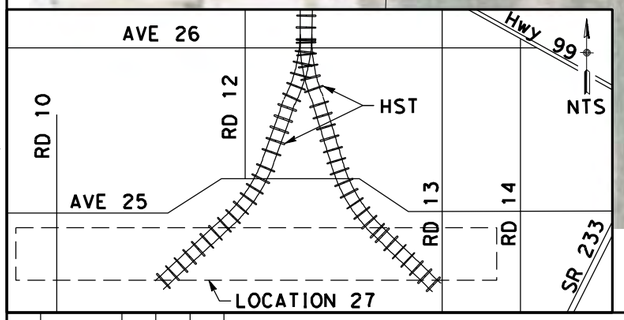
EDGE OF PAVEMENT

REALIGNED AVENUE 25

ROAD 11

MATCH LINE STA 232+00
SEE DRAWING CT5156-B

PI 230+16.05



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3500.00	44°19'33"	1425.68	2707.71	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 5 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5155-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1

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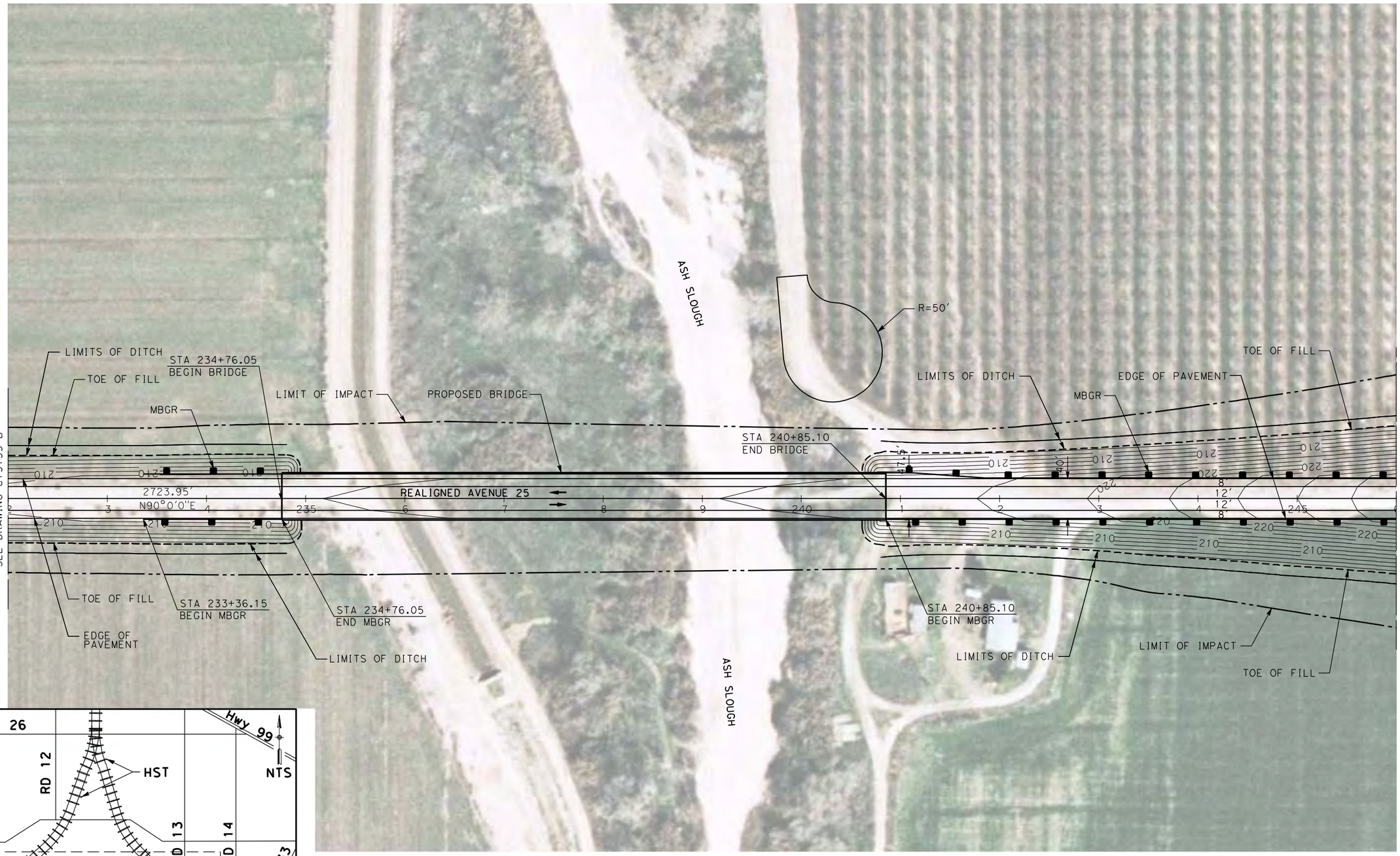

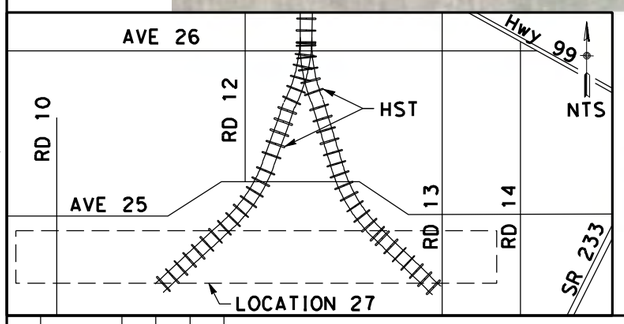

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 6 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5156-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5157-B.dgn
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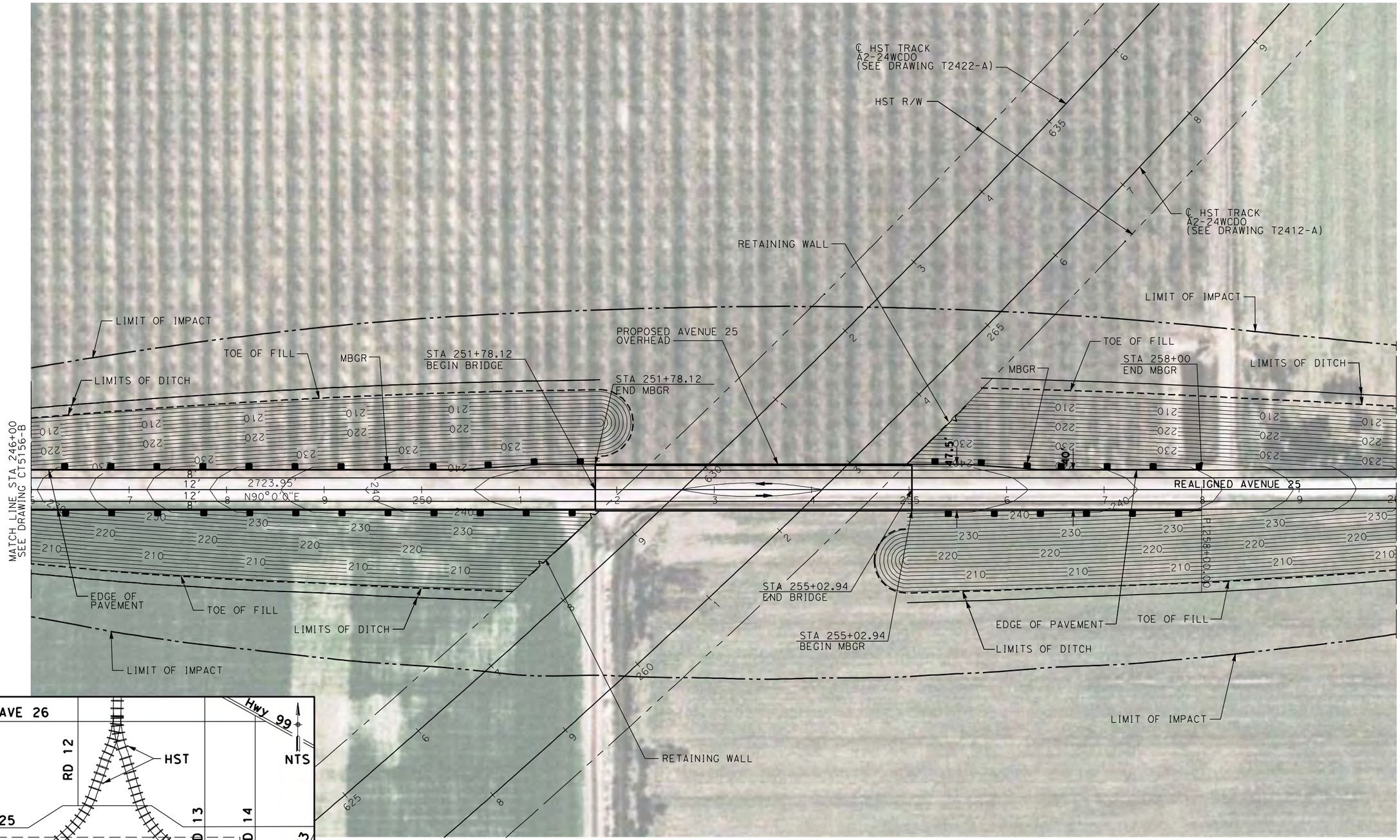

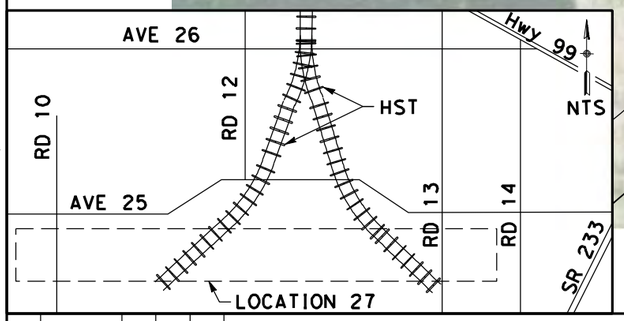

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 7 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5157-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5158-B.dgn
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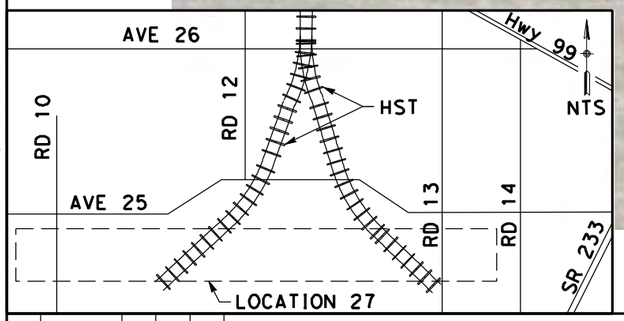

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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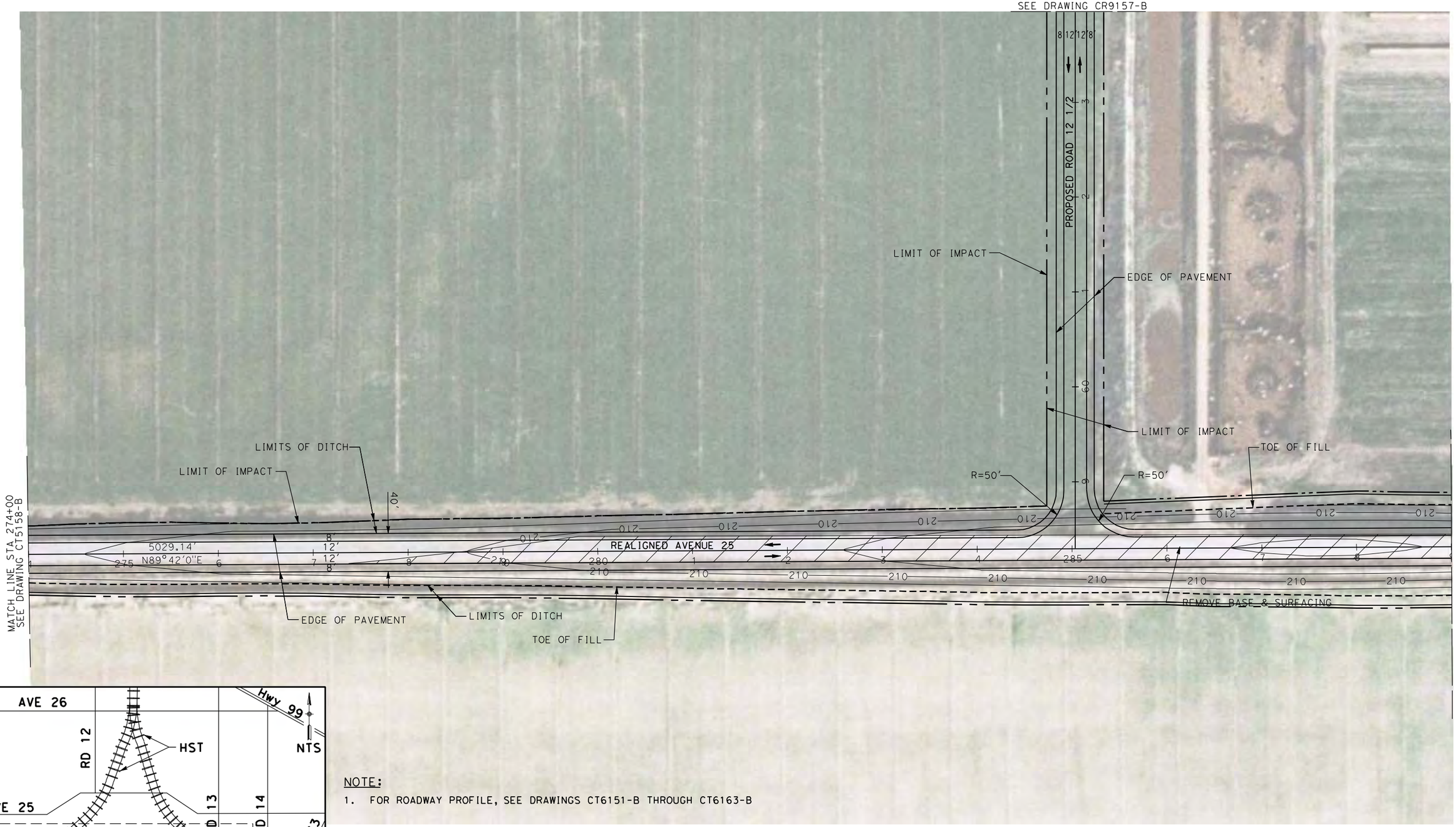
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

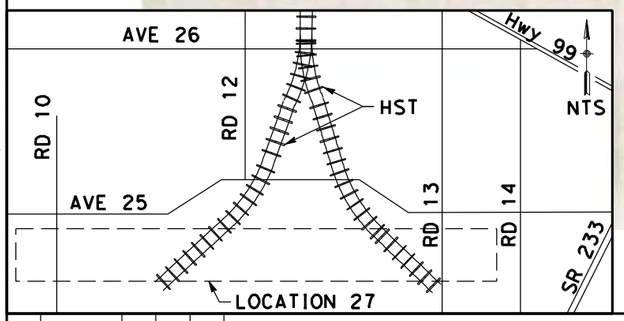
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 8 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5158-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5159-B.dgn
1/5/2012 1:33:38 PM ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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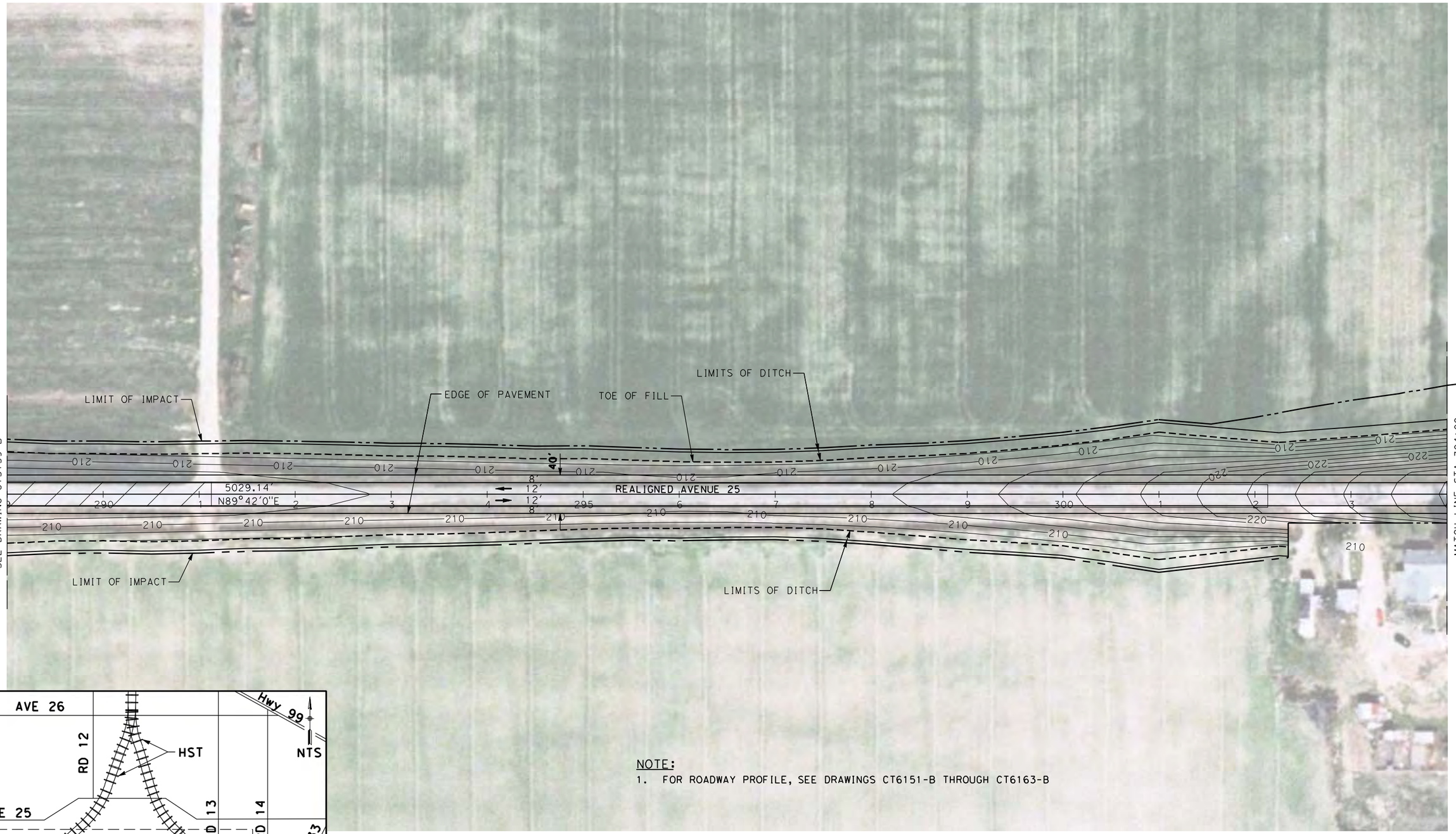
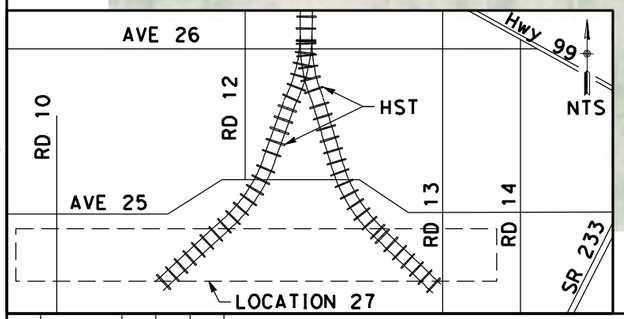
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 9 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5159-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

50 0 50 100

1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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DATE 06/30/2011

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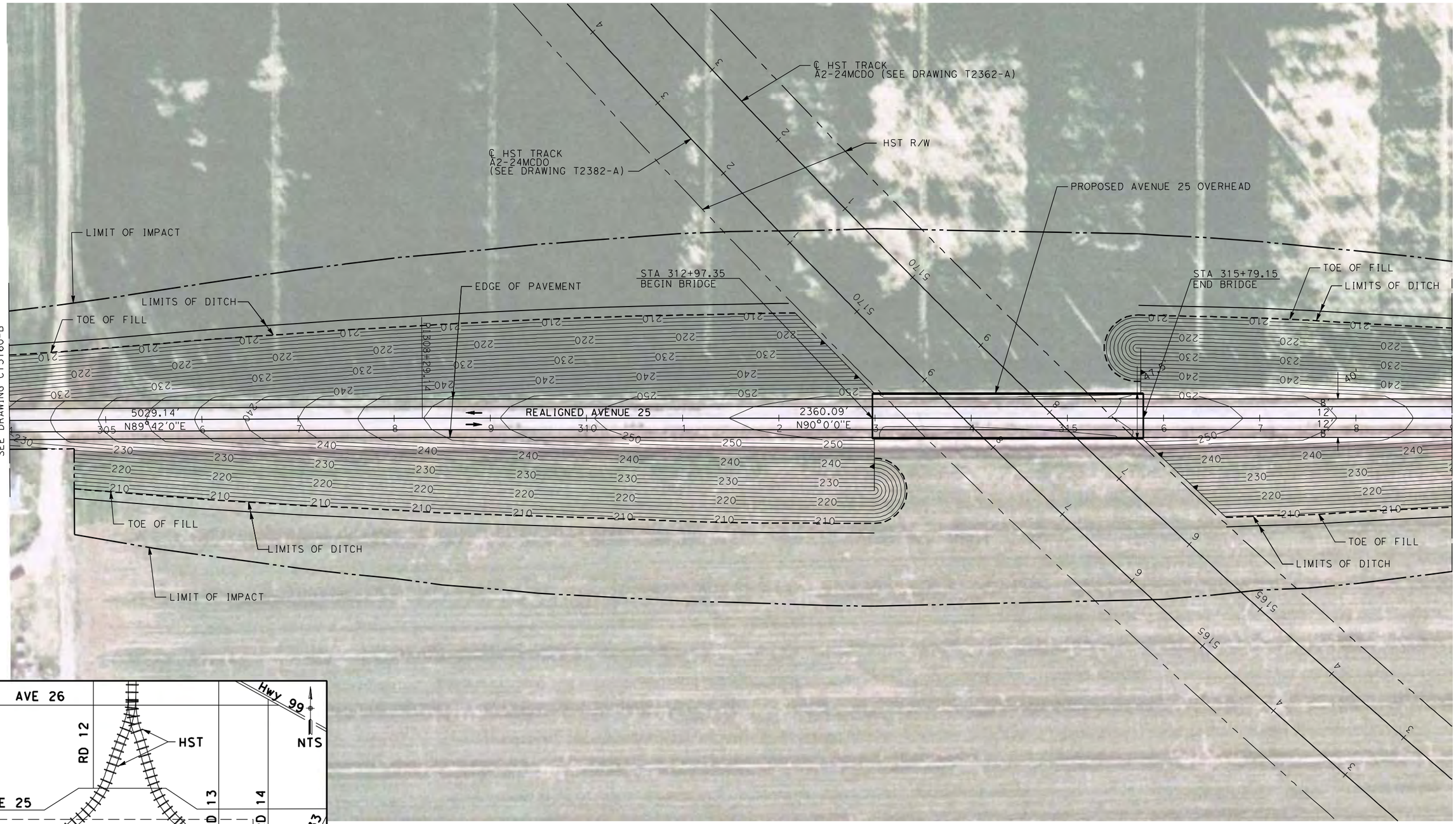
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

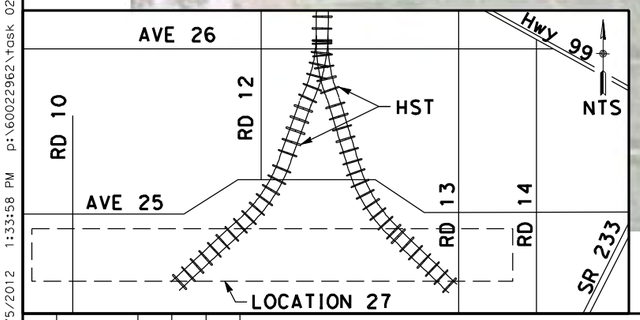
UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 10 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5160-B
SCALE AS SHOWN
SHEET NO. ### OF ###

1/5/2012 1:33:48 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5160-B.dgn
ReyesC1

1/5/2012 1:33:58 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla grade separation\Layout\CT5161-B.dgn
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. LI
DRAWN BY A. TRINH
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 11 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5161-B
SCALE AS SHOWN
SHEET NO. ### OF ###

SEE DRAWING CT5135-B

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

EDGE OF PAVEMENT

MATCH LINE STA 319+00
SEE DRAWING CT5161-B

2360.09'
N90°0'0"E

REALIGNED AVENUE 25

LIMIT OF IMPACT

STA 331+89.23
CONFORM

EXIST AVE 24 1/2

PC 1+35.39

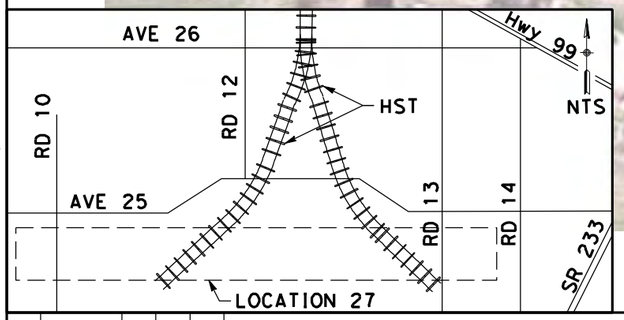
PT 5+24.06

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6151-B THROUGH CT6163-B

SEE DRAWING CT5135-B

50 0 50 100
1"=50'



REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 12 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5162-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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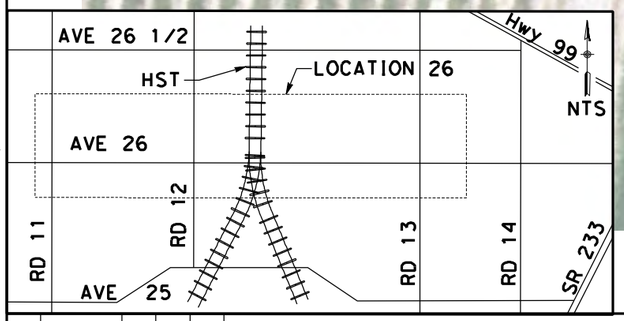
ReyesC1



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

CURVE DATA

No.	R	Δ	T	L	V
1	3500.00	60°23'27"	925.04	1808.71	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 1 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5168-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:32:49 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5168-B.dgn
ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5169-B.dgn
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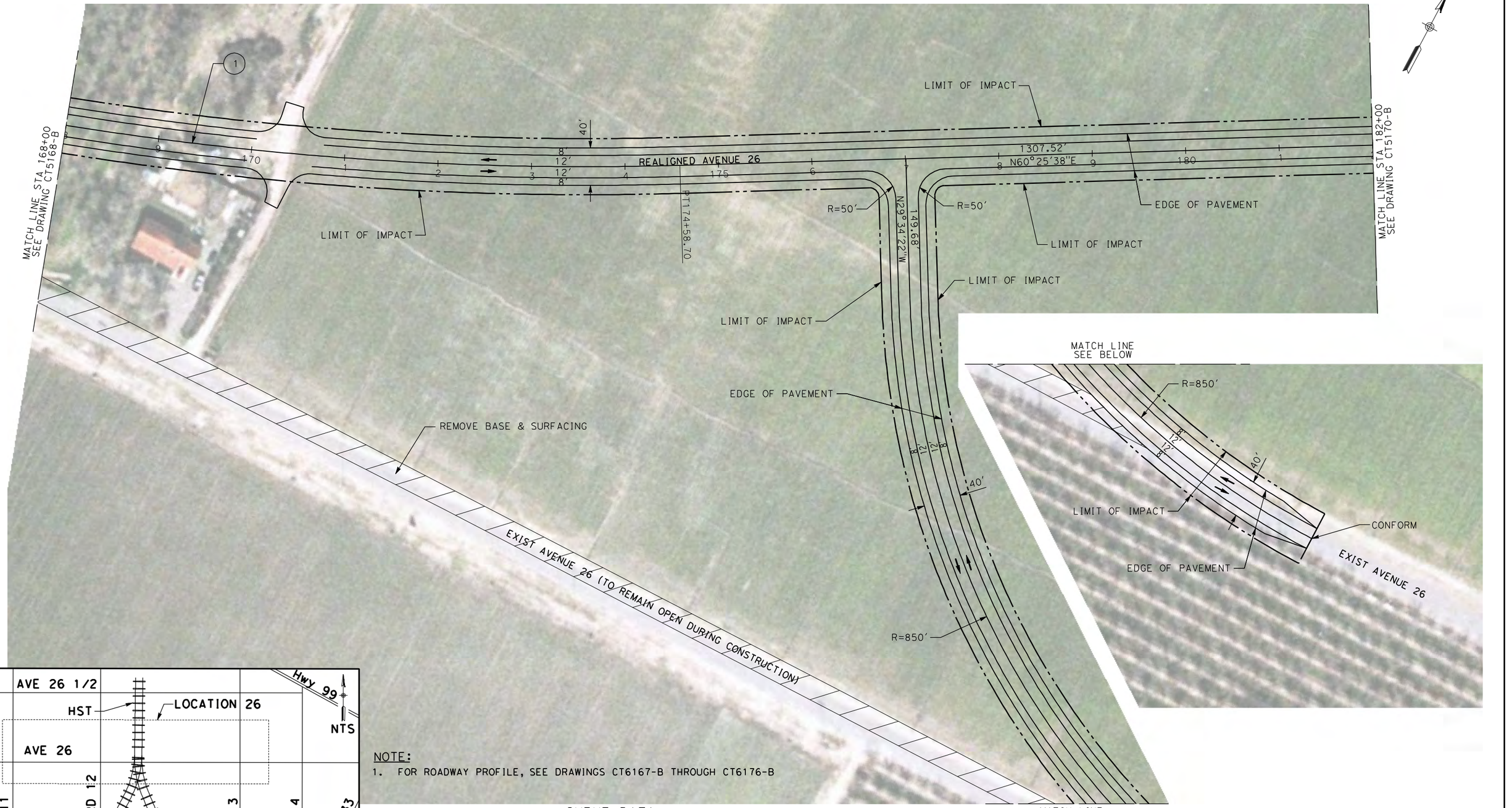

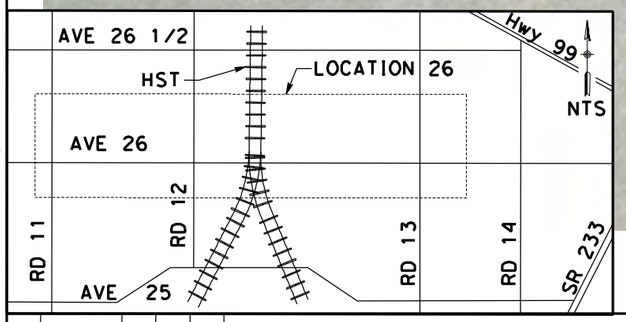

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

CURVE DATA

No.	R	Δ	T	L	V
1	3500.00	60°23'27"	925.04	1808.71	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 2 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5169-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5170-B.dgn
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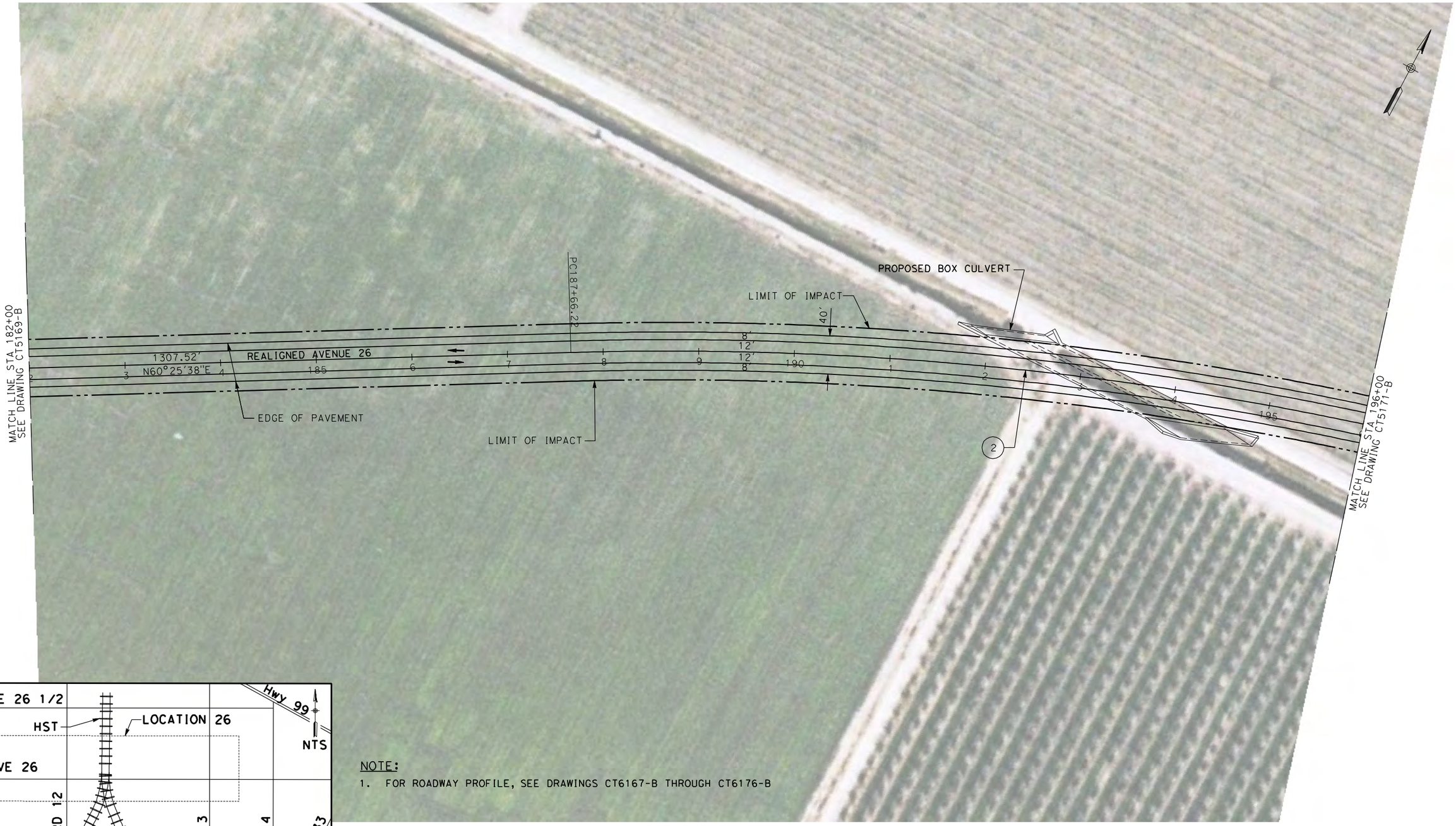
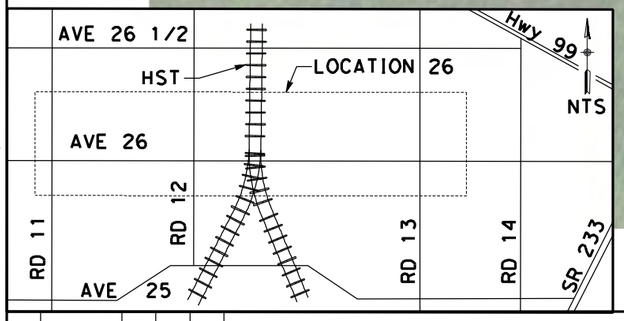
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3500.00	60°25'38"	923.85	1806.50	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

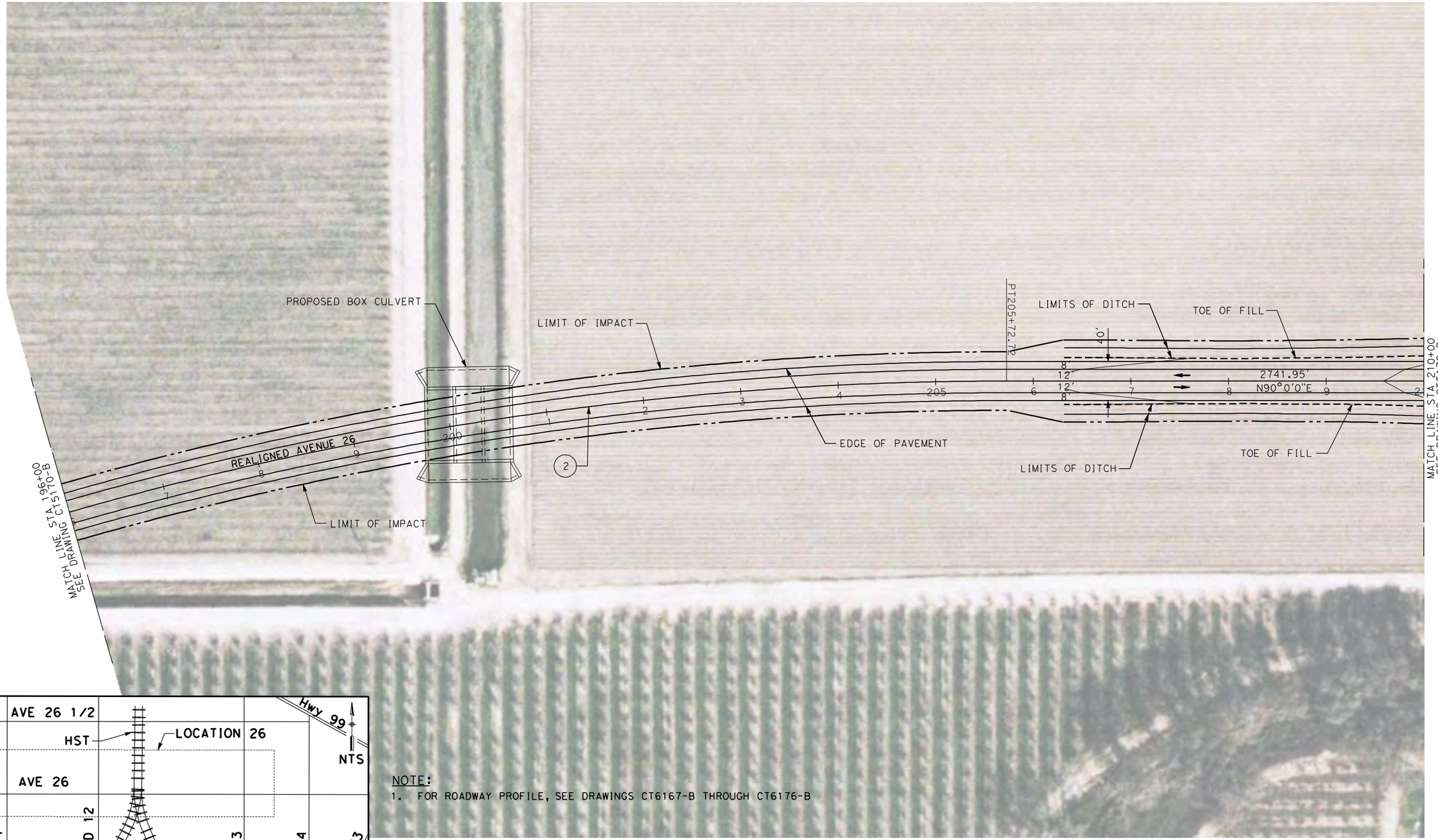
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

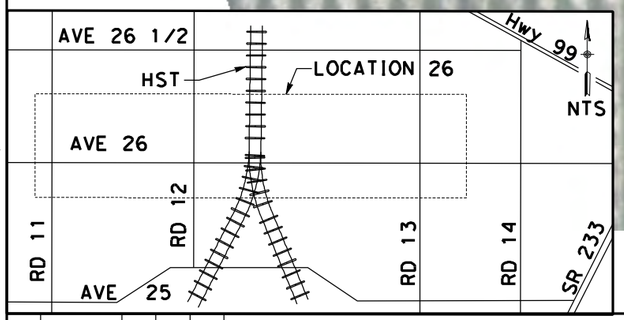
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 3 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5170-B
SCALE AS SHOWN
SHEET NO. ### OF ###

I:\sheetpackage 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5171-B.dgn
4/27/2011 6:33:17 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheetpackage 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5171-B.dgn
ReyesC1





NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3500.00	60°25'38"	923.85	1806.50	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 4 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5171-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5172-B.dgn
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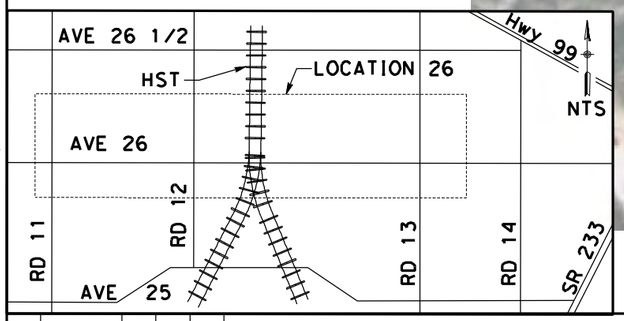
ReyesC1



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 5 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5172-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5173-B.dgn
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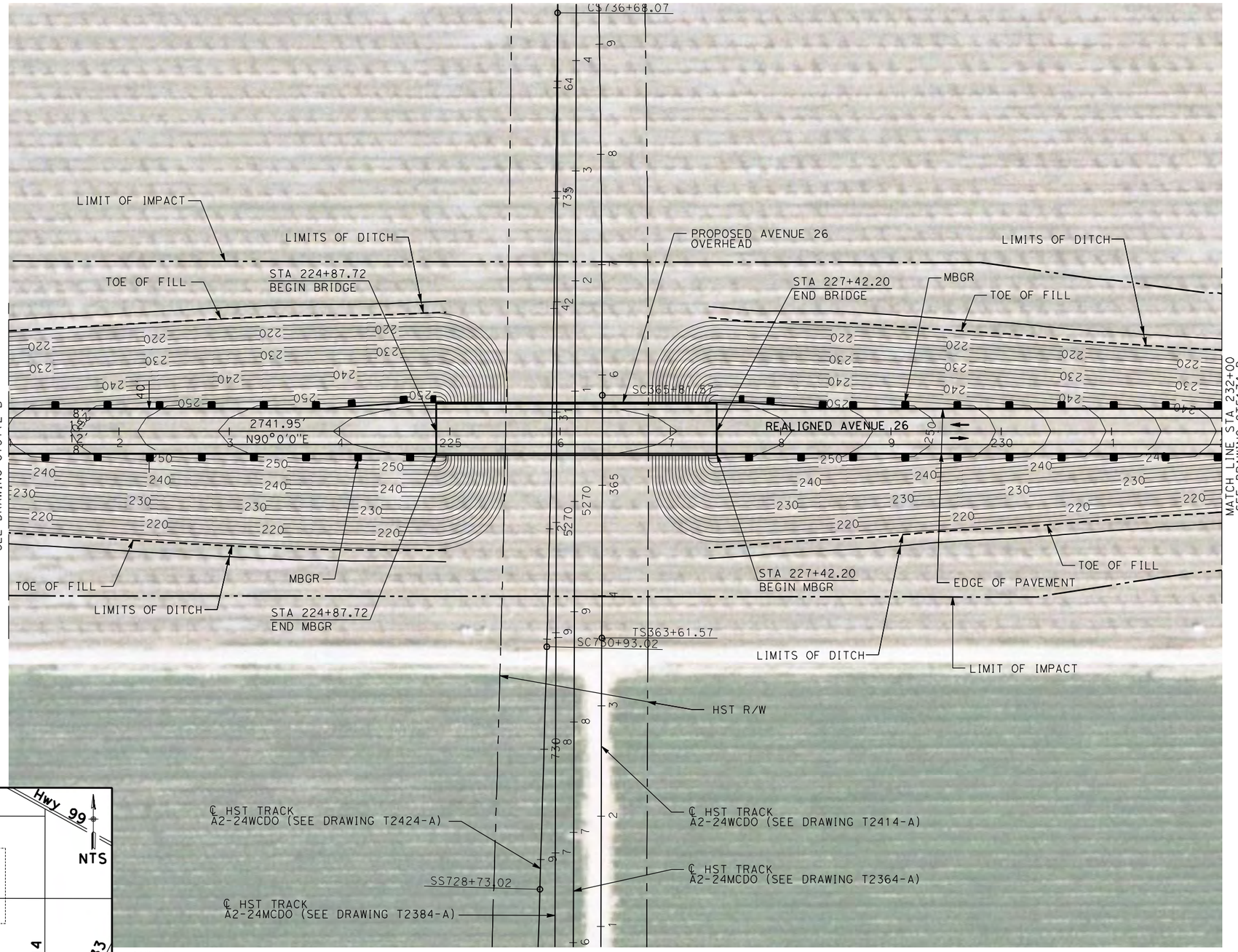
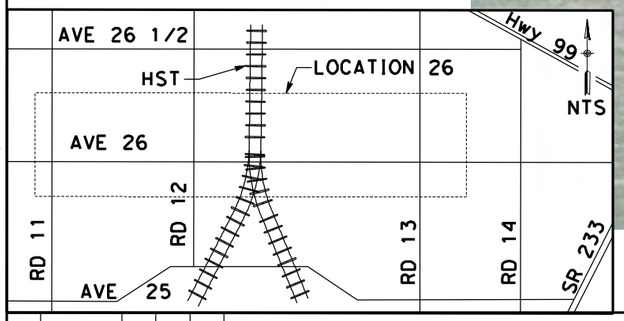
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 6 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5173-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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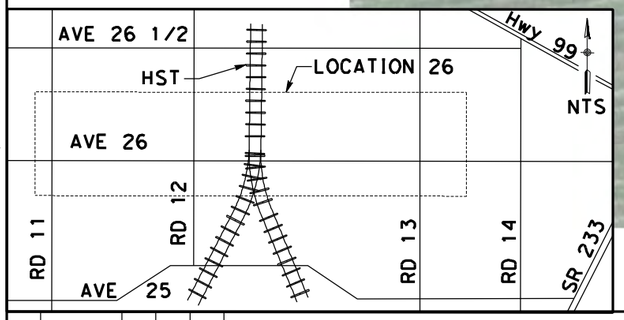
ReyesCl

LIMITS OF DITCH
LIMIT OF IMPACT
STA 235+92.36
END MBGR
TOE OF FILL
PC 232+46.61
2741.95'
N90°0'0"E
MATCH LINE STA 232+00
SEE DRAWING CT5173-B
REALIGNED AVENUE 26
EDGE OF PAVEMENT
TOE OF FILL
MBGR
LIMIT OF IMPACT
LIMITS OF DITCH
MATCH LINE STA 245+00
SEE DRAWING CT5175-B
3



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3500.00	60°25'38"	923.85	1806.50	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 7 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5174-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5175-B.dgn
4/27/2011 6:33:51 PM
ReyesC1

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3500.00	60°25'38"	923.85	1806.50	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 8 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5175-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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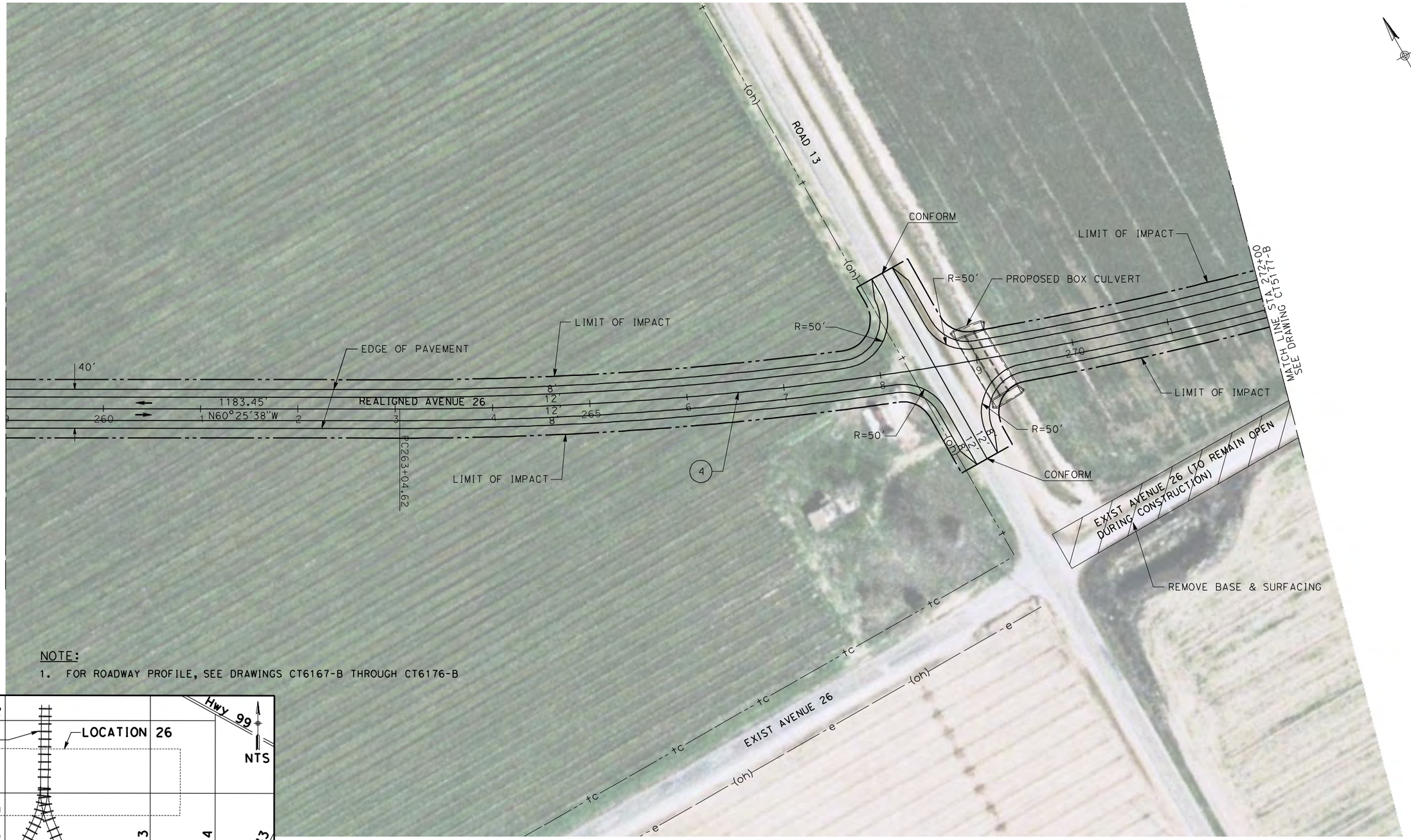
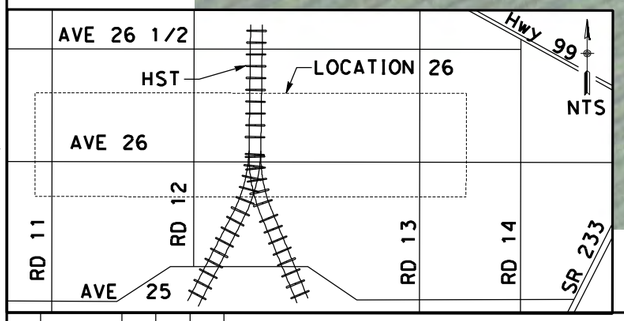


NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B



CURVE DATA

No.	R	Δ	T	L	V
(4)	3500.00	60°15'36"	929.32	1816.72	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

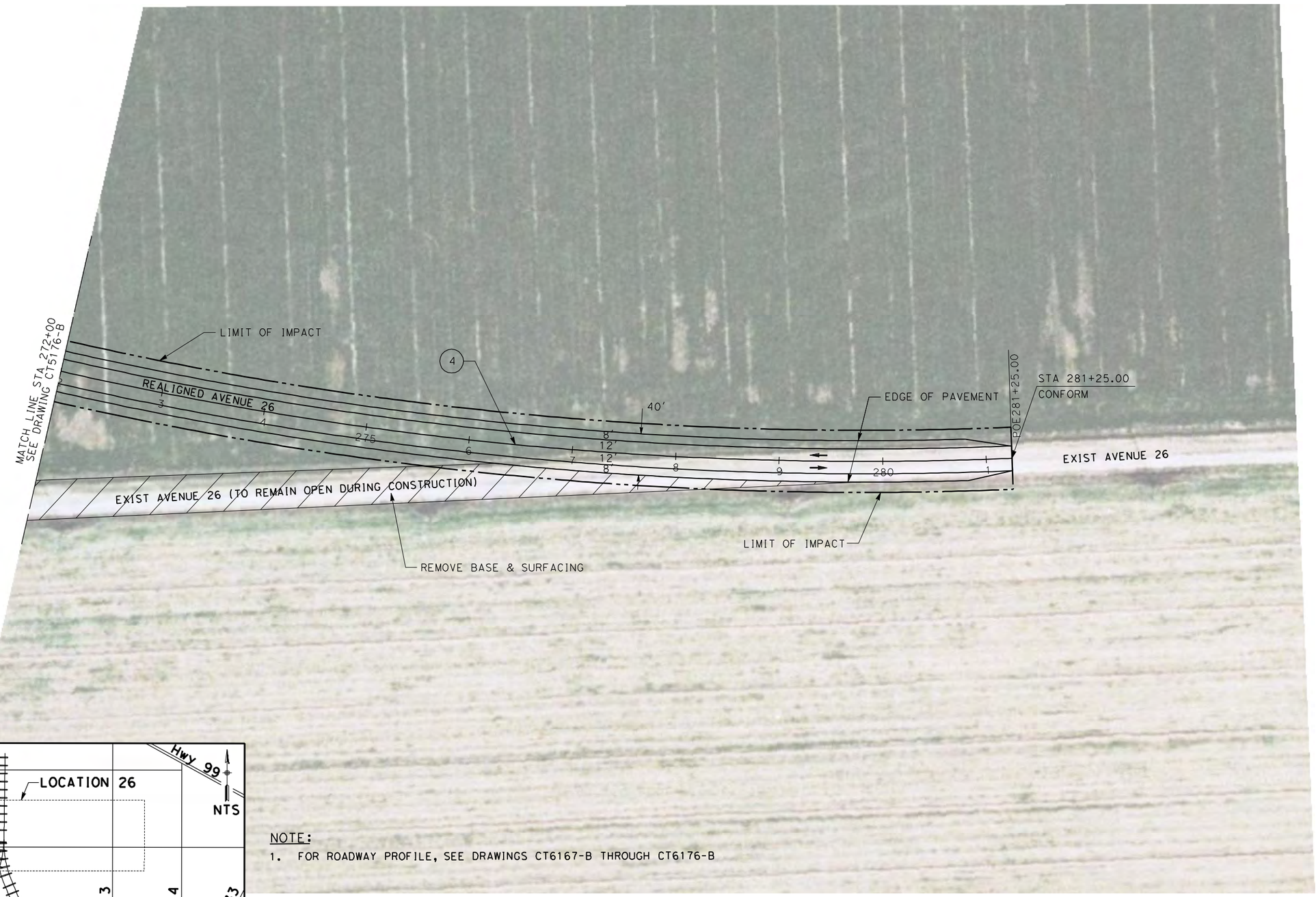
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

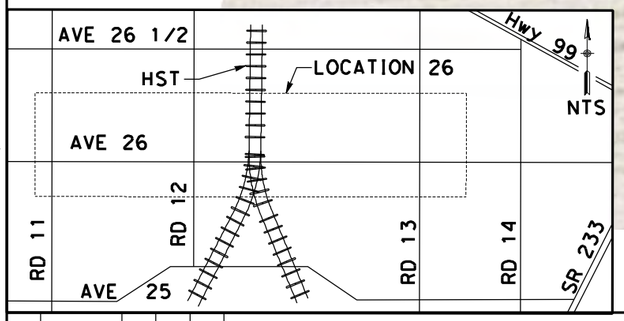
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 9 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5176-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6167-B THROUGH CT6176-B

CURVE DATA

No.	R	Δ	T	L	V
(4)	3500.00	60°15'36"	929.32	1816.72	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

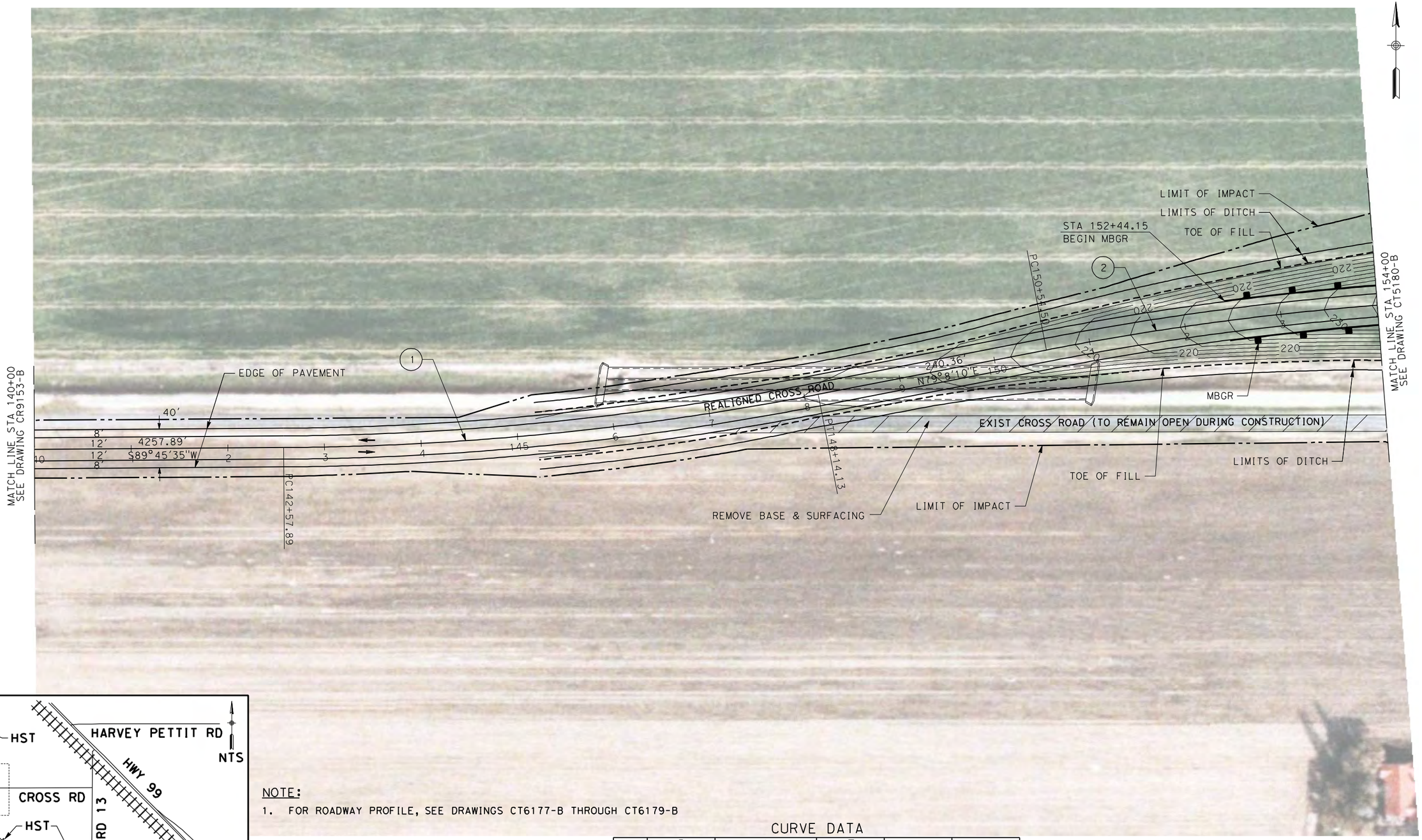
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

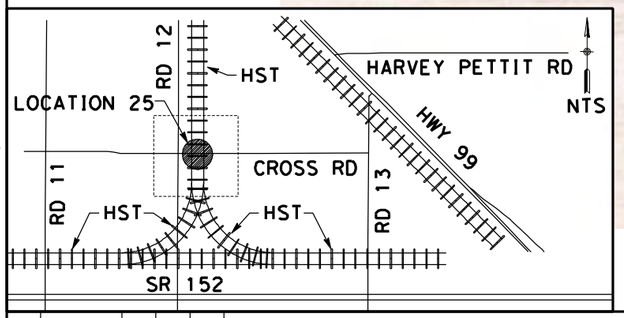
UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 10 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5177-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:34:08 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5177-B.dgn
ReyesCI

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5179-B.dgn
4/27/2011 6:34:16 PM
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6177-B THROUGH CT6179-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	79°22'35"	278.92	556.25	45 MPH
(2)	3000.00	79°0'0"	288.87	575.96	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5179-B
SCALE AS SHOWN
SHEET NO. ### OF ###

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6177-B THROUGH CT6179-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	79°0'0"	288.87	575.96	45 MPH
(3)	3000.00	79°0'17"	288.74	575.71	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

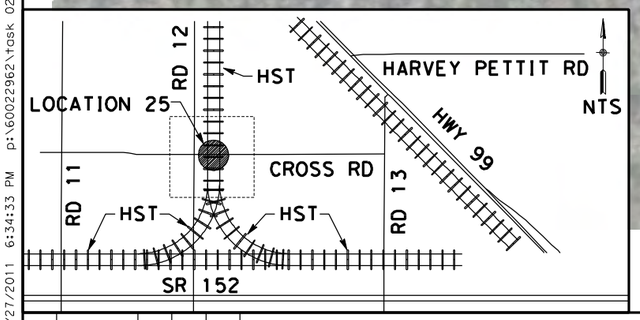
UPRR/SR99 MERCED DO - (WC)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5180-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5180-B.dgn
4/27/2011 6:34:24 PM
ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5181-B.dgn
4/27/2011 6:34:33 PM ReyesC1

LIMIT OF IMPACT
LIMITS OF DITCH
TOE OF FILL
STA 170+78.87
END MBGR
MATCH LINE STA 169+00
SEE DRAWING CT5180-B
REALIGNED CROSS ROAD
LIMITS OF DITCH
TOE OF FILL
EDGE OF PAVEMENT
STA 183+6.76
CONFORM
EXIST CROSS ROAD (TO REMAIN OPEN DURING CONSTRUCTION)
PT 173+78.87
PC 175+43.92
PT 181+56.76
POE 183+06.76
N90°0'0"E
S78°52'7"E
265.56'
REMOVE BASE & SURFACING
LIMIT OF IMPACT
3
4



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6177-B THROUGH CT6179-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	79°0'17"	288.74	575.71	45 MPH
(4)	3000.00	78°52'7"	292.34	582.84	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5181-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5187-B.dgn
4/27/2011 6:34:42 PM
ReyesC1

EXIST AVENUE 26

STA 150+00
CONFORM

R=25'

R=25'

EDGE OF PAVEMENT

LIMIT OF IMPACT

TOE OF CUT

AVENUE 26

2832.55'

N89°48'20"E

8'
12'
12'
8'

10'

150

155

1

2

3

4

6

8'
12'
4'
8'

MATCH LINE STA 157+00
SEE DRAWING CT5188-B

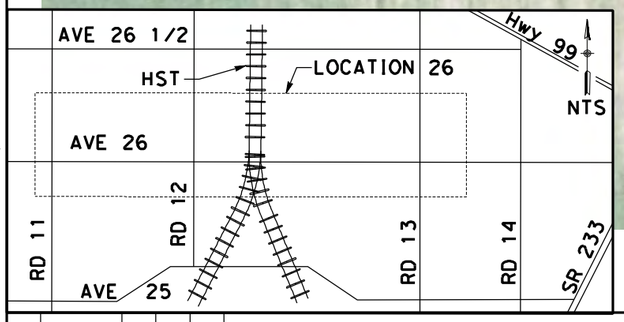
POB 150+00.00

R=50'

R=50'

LIMIT OF IMPACT

TOE OF CUT



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6185-B THROUGH CT6187-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
UNDERPASS - AVENUE 26 ALT 2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5187-B
SCALE AS SHOWN
SHEET NO. ### OF ###

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2384-A)

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2364-A)

PC721+33.73

℄ HST TRACK
A2-24WCDO (SEE DRAWING T2424-A)

℄ HST TRACK
A2-24WCDO (SEE DRAWING T2414-A)

HST R/W

STA 5256+21.53
END BRIDGE
SOUTHBOUND MCDO

STA 350+89.13
END BRIDGE
NORTHBOUND WCDO

RETAINING WALL

EDGE OF PAVEMENT

PROPOSED AVENUE 26
UNDERPASS

TOE OF CUT

LIMIT OF IMPACT

AVENUE 26

MATCH LINE STA 157+00
SEE DRAWING CT5187-B

MATCH LINE STA 172+00
SEE DRAWING CT5189-B

2832.55'
N89°48'20"E

STA 5255+25.53
BEGIN BRIDGE
SOUTHBOUND MCDO

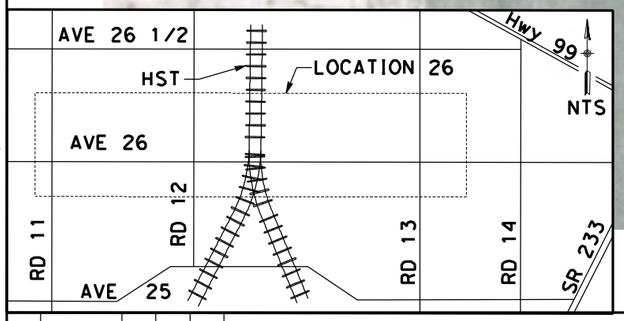
STA 349+93.13
BEGIN BRIDGE
NORTHBOUND WCDO

ST5253+61.04

ST348+32.82

ST715+47.65

ST5253+02.51



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6185-B THROUGH CT6187-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
UNDERPASS - AVENUE 26 ALT 2
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5188-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:34:50 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5188-B.dgn
ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5189-B.dgn
4/27/2011 6:34:57 PM
ReyesC1

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6185-B THROUGH CT6187-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

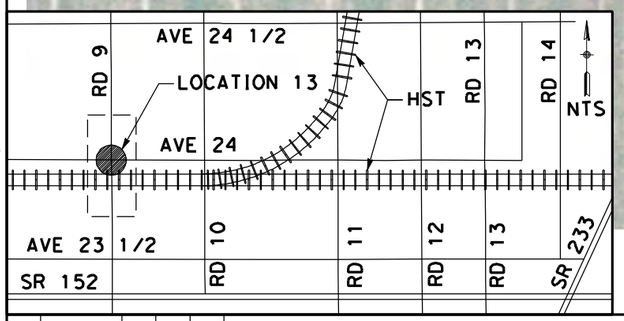
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
UNDERPASS - AVENUE 26 ALT 2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5189-B
SCALE AS SHOWN
SHEET NO. ### OF ###



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6188-B THROUGH CT6190-B

50 0 50 100

1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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

UPRR/SR99 MAINLINE/WYE - (AVE 24)
GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5190-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:35:06 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5190-B.dgn ReyesC1

SEE DRAWING CR9130-B

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

℄ HST TRACK
A2-24WC(SEE DRAWING T2320-A)

℄ HST TRACKS
A2-24ML(SEE DRAWING T2301-A)

HST R/W

LIMIT OF IMPACT

TOE OF FILL

LIMITS OF DITCH

SEE DRAWING CT5190-B
MATCH LINE STA 115+00

1347.63'
N0°23'23"E

EDGE OF PAVEMENT

MBGR

STA 120+30.44
BEGIN BRIDGE

STA 120+30.44
END MBGR

PROPOSED ROAD 9 OVERHEAD

LIMIT OF IMPACT

TOE OF FILL

LIMITS OF DITCH

MBGR

LIMITS OF DITCH

TOE OF FILL

LIMIT OF IMPACT

PROPOSED HEMLOCK ROAD (ROAD 9)

STA 124+27.09
END BRIDGE

STA 124+27.09
BEGIN MBGR

LIMIT OF IMPACT

TOE OF FILL

LITMITS OF DITCH

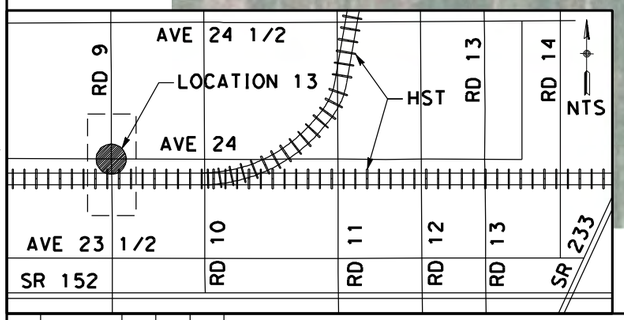
EXIST AVENUE 24

MATCH LINE STA 129+00
SEE DRAWING CT5192-B

SEE DRAWING CR9130-B

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6188-B THROUGH CT6190-B



50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

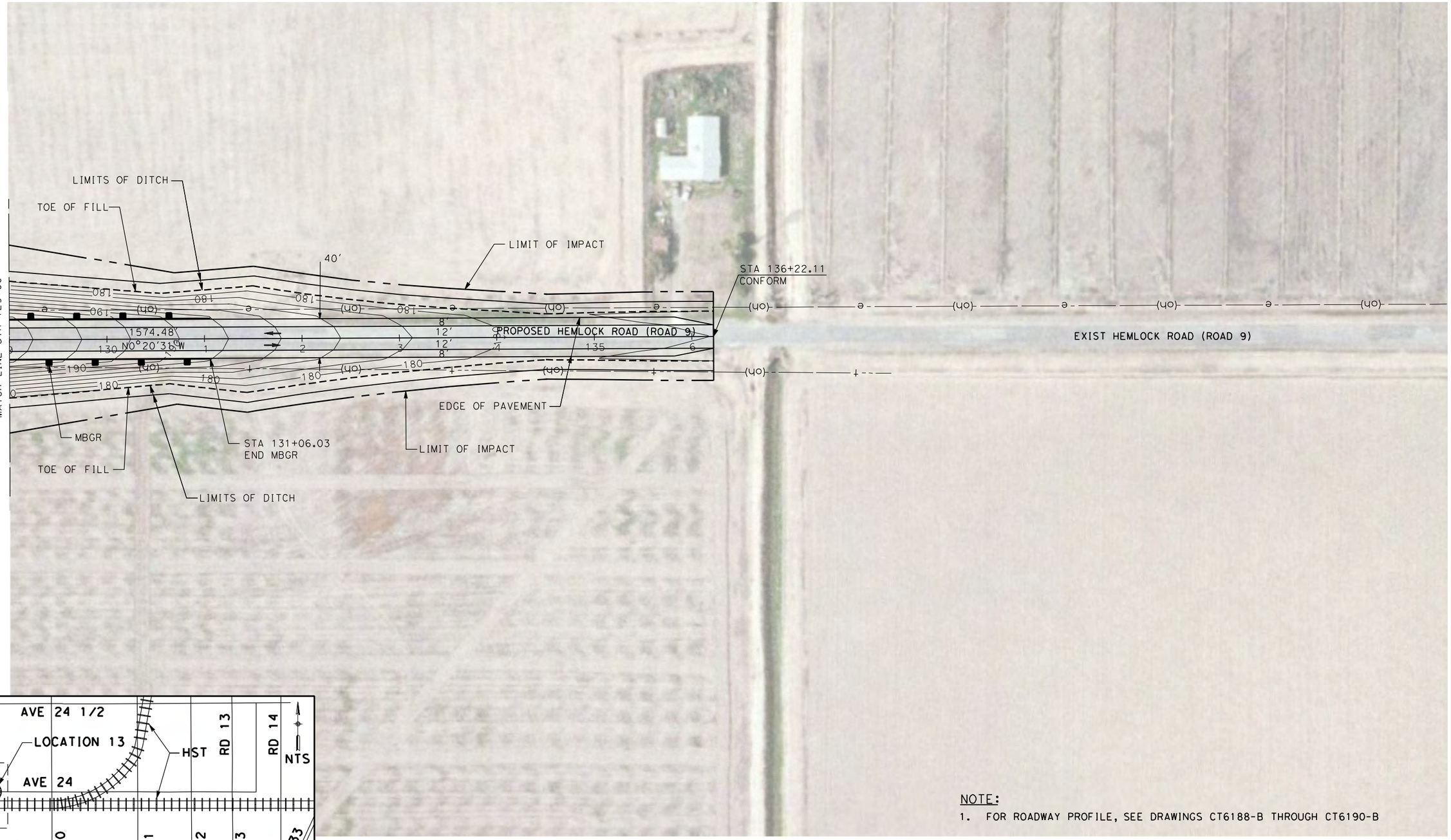
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

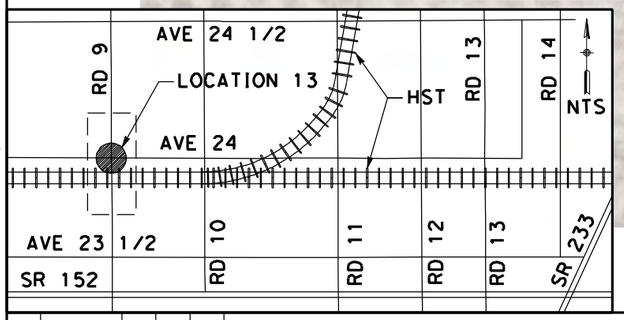
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24)
GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5191-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:35:20 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5191-B.dgn ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6188-B THROUGH CT6190-B

50 0 50 100

1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24)
GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5192-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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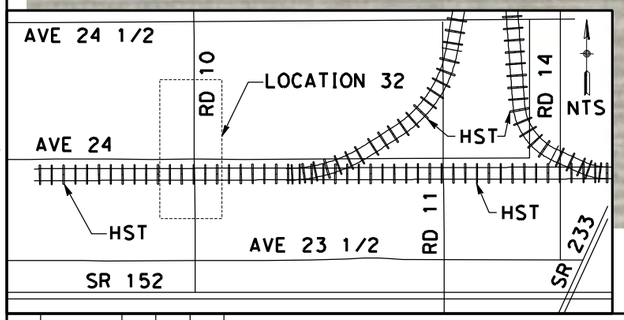

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6191-B THROUGH CT6193-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5193-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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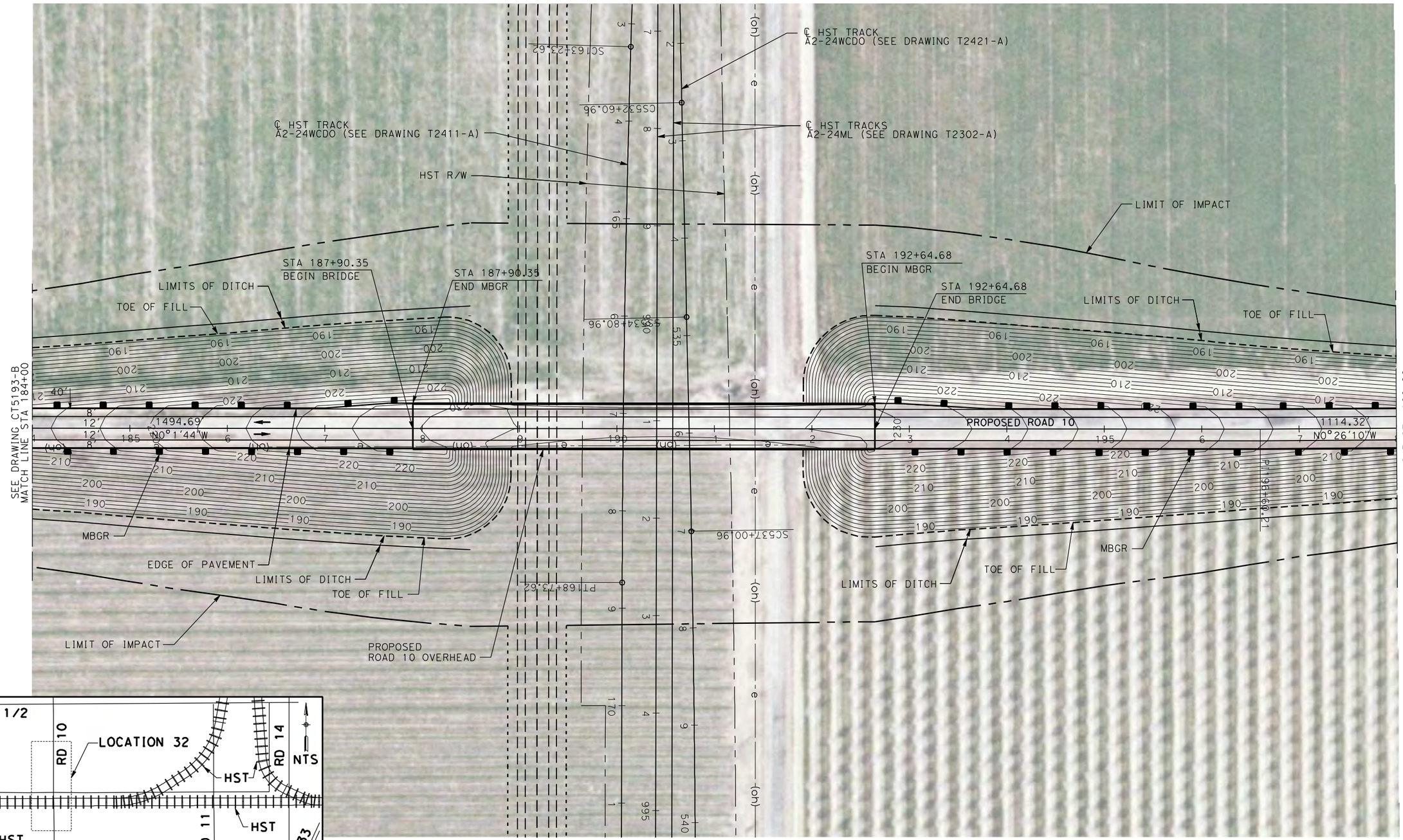
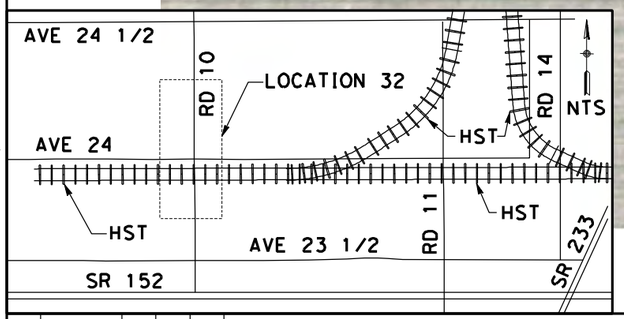
p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Layout\CT5194-B.dgn
4/27/2011 6:35:51 PM
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6191-B THROUGH CT6193-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5194-B
SCALE AS SHOWN
SHEET NO. ### OF ###

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6191-B THROUGH CT6193-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5195-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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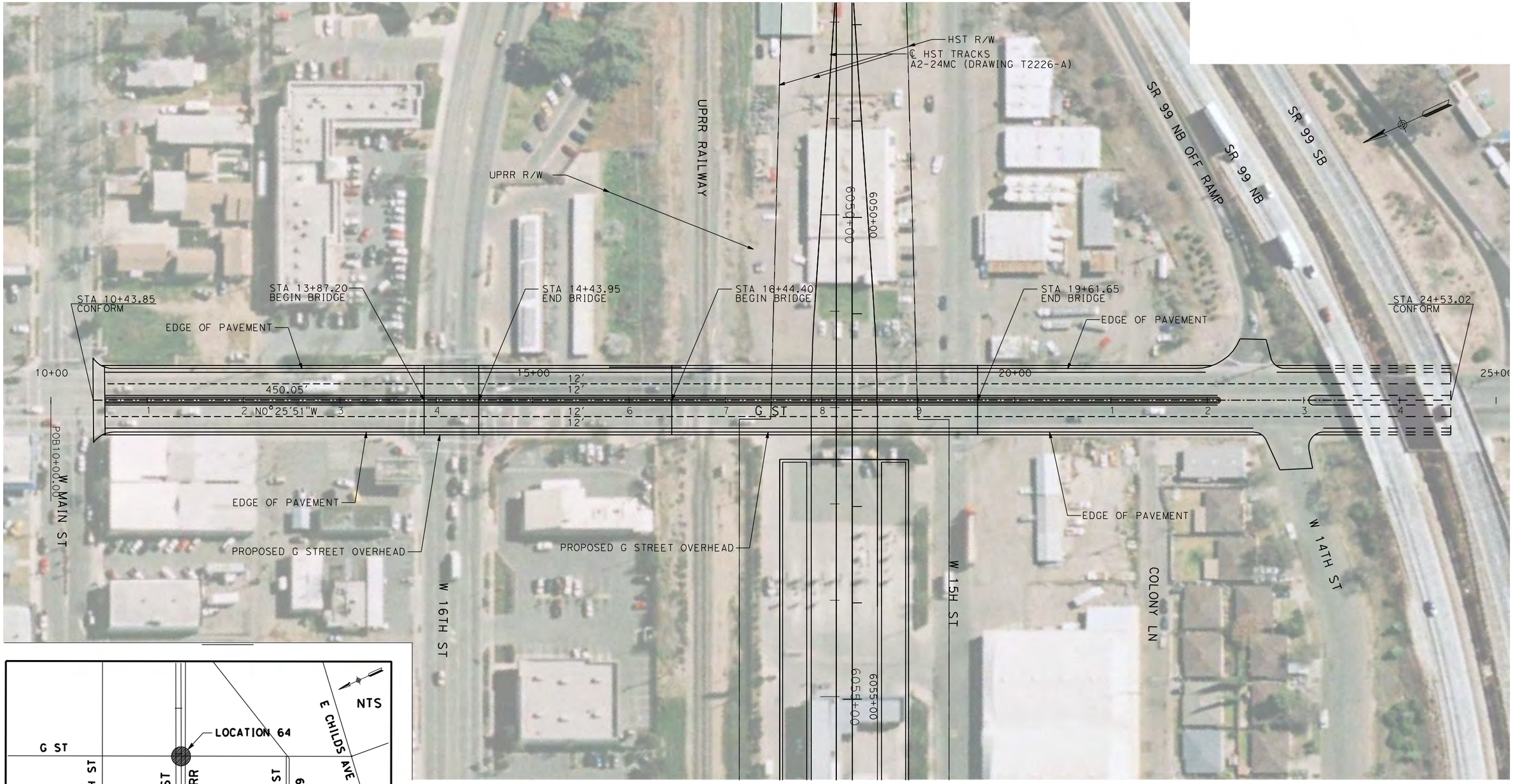
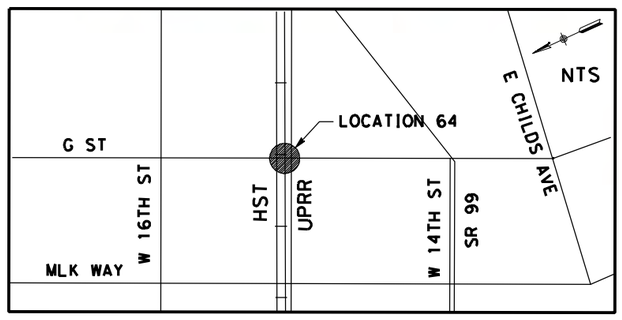
ReyesCl

C:\Rev 1 - 15% Plans\CADD\Sheet\PLANS\A1 MF-CT-0149-A_REV1.dgn 1/13/2012 9:04:54 AM I:\CHSR\60022962\Task-03_Merced-Fresno\CADD\Civil\Design\gibsonr\Rev 1 - GibsonR1





NOTE:

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

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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

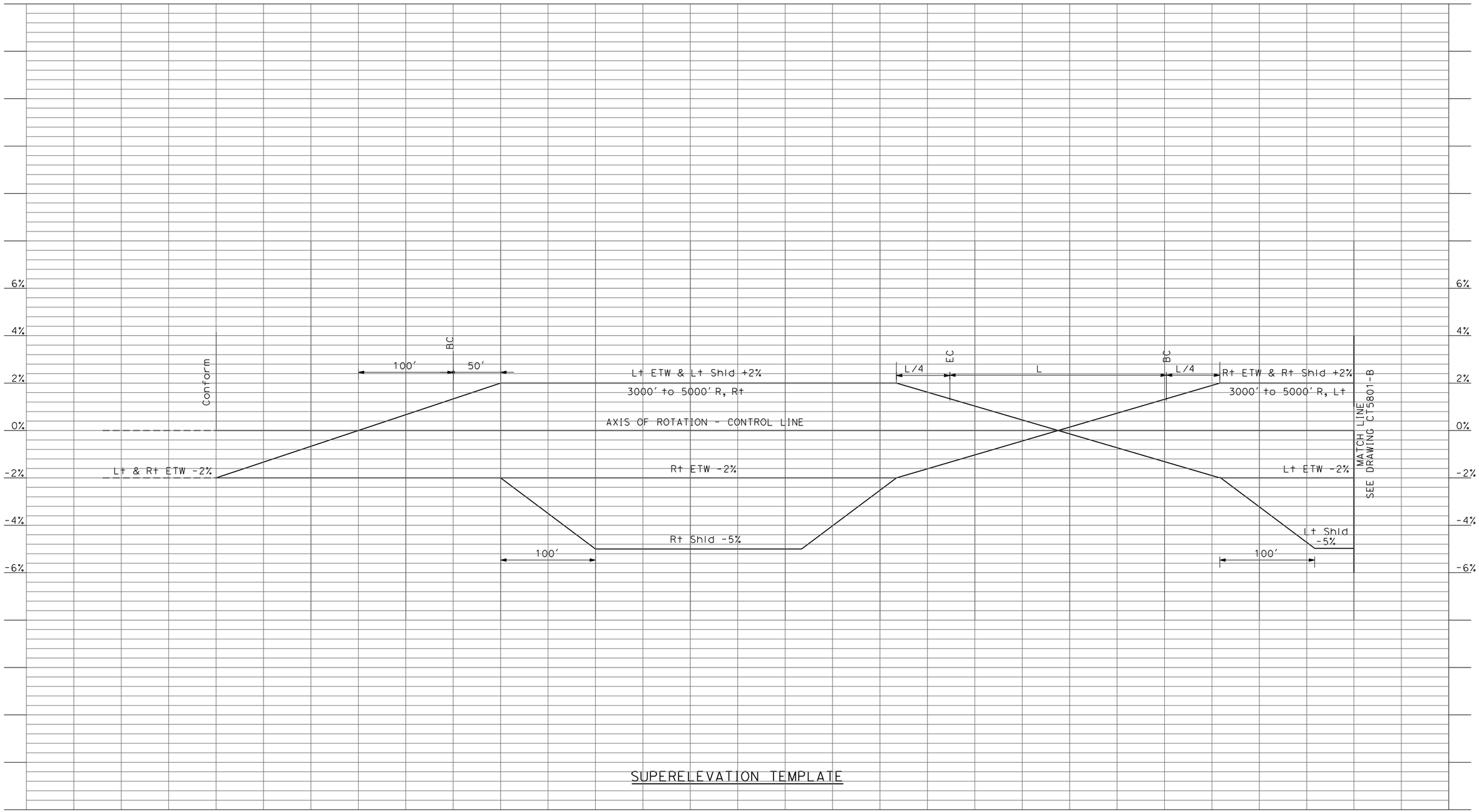
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR MERCED CONNECTOR - (AVE 24/WC)
GRADE SEPARATION - G STREET
LAYOUT
SHEET 1 OF 1

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



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: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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

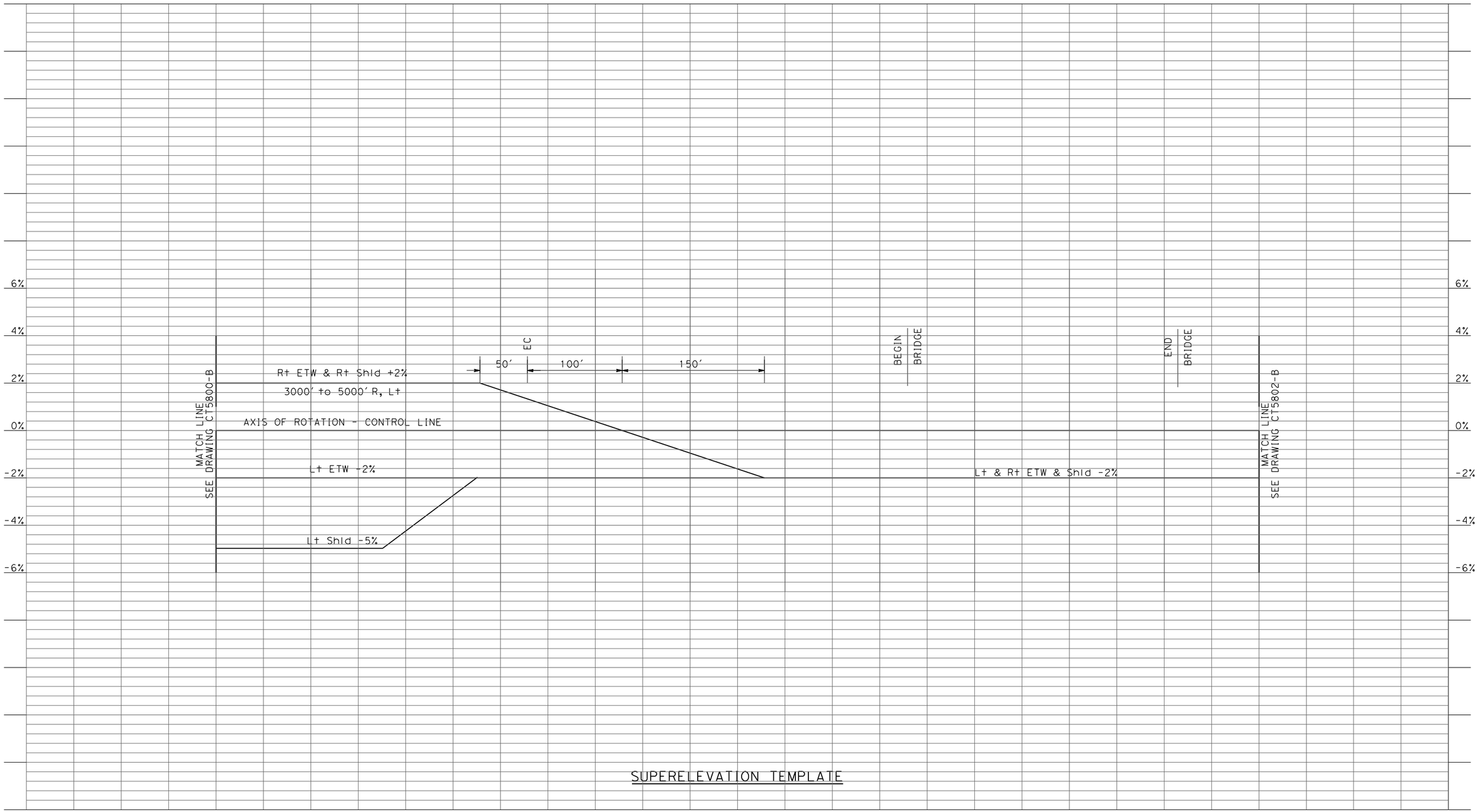
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24/WC)
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5800-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:36:04 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Profile\CT5800-B.dgn
ReyesCl



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: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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

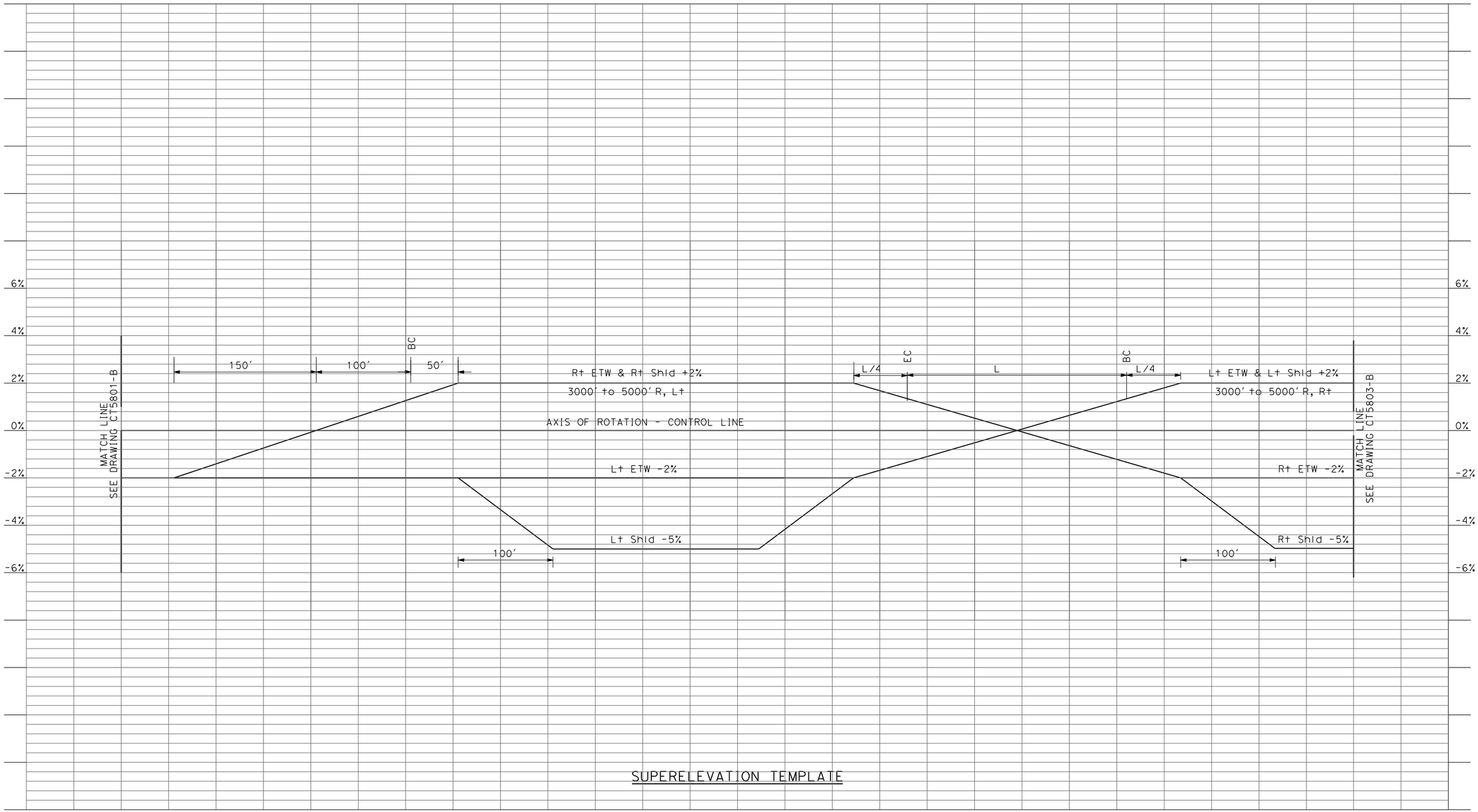
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24/WC)
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5801-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1 4/27/2011 6:36:08 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Profile\CT5801-B.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: 04/29/2011

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
UPRR/SR99 - (AVE 24/WC)
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5802-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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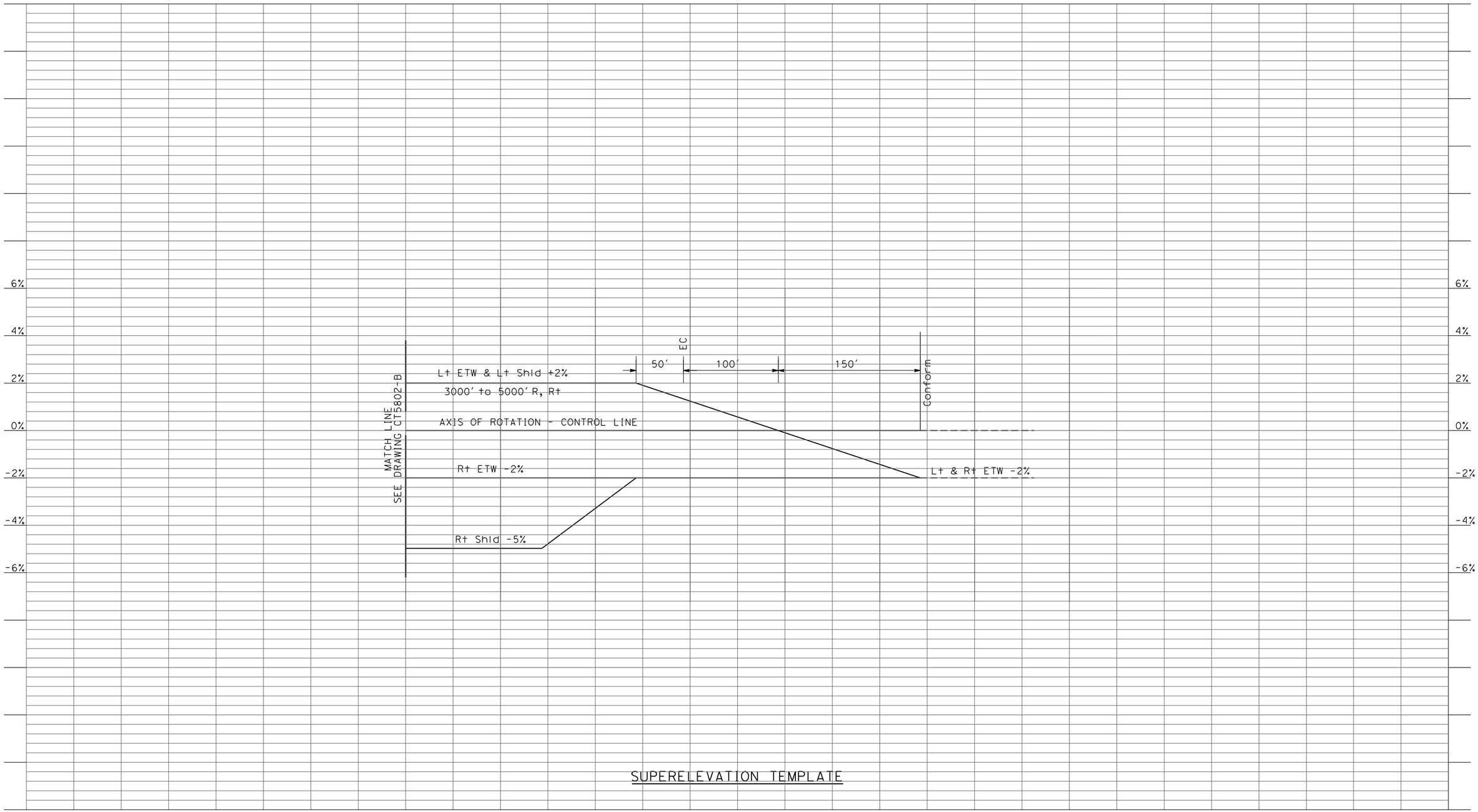
ReyesC1



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: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24/WC)
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5803-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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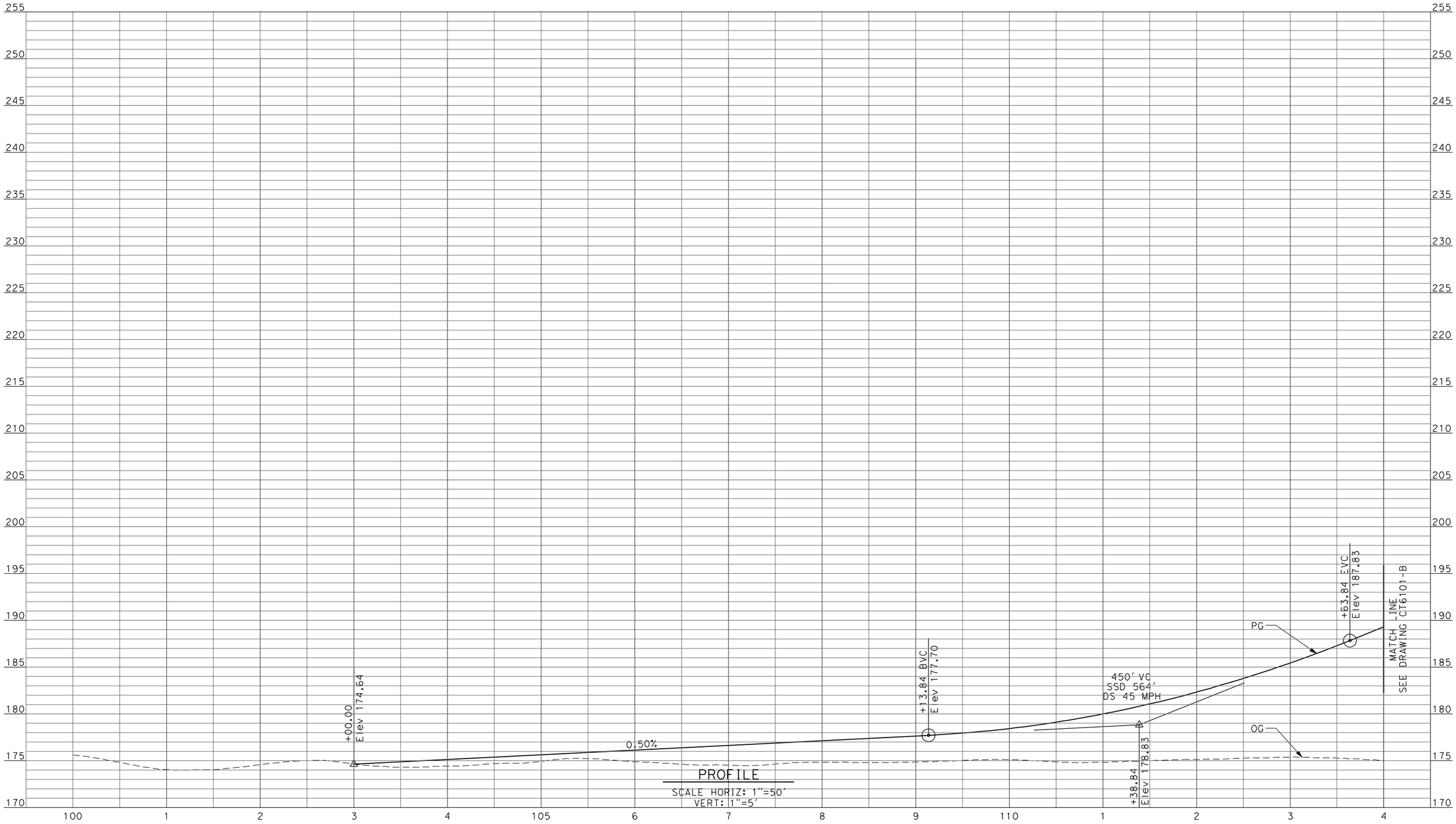
ReyesCl



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6100-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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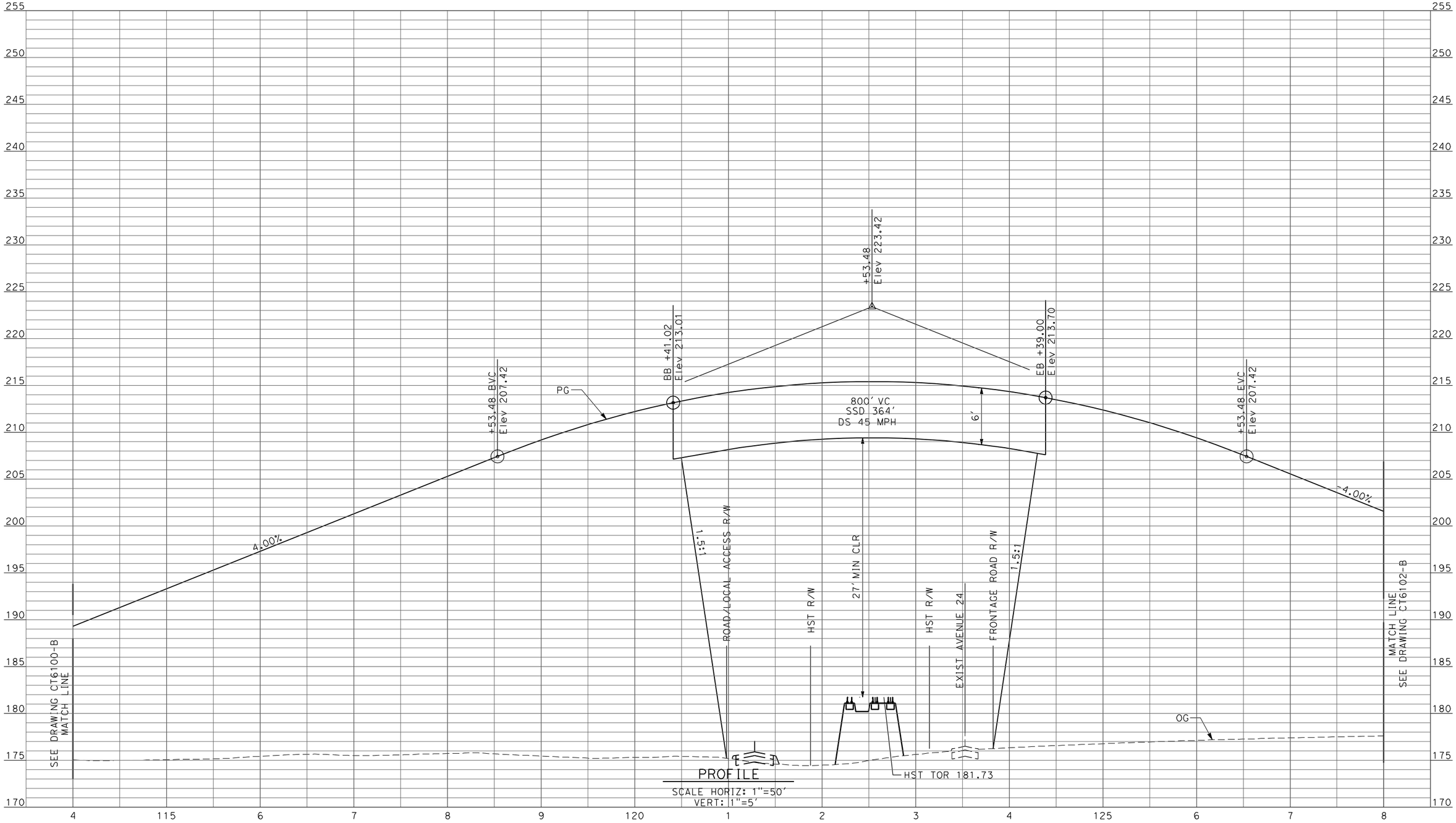

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6101-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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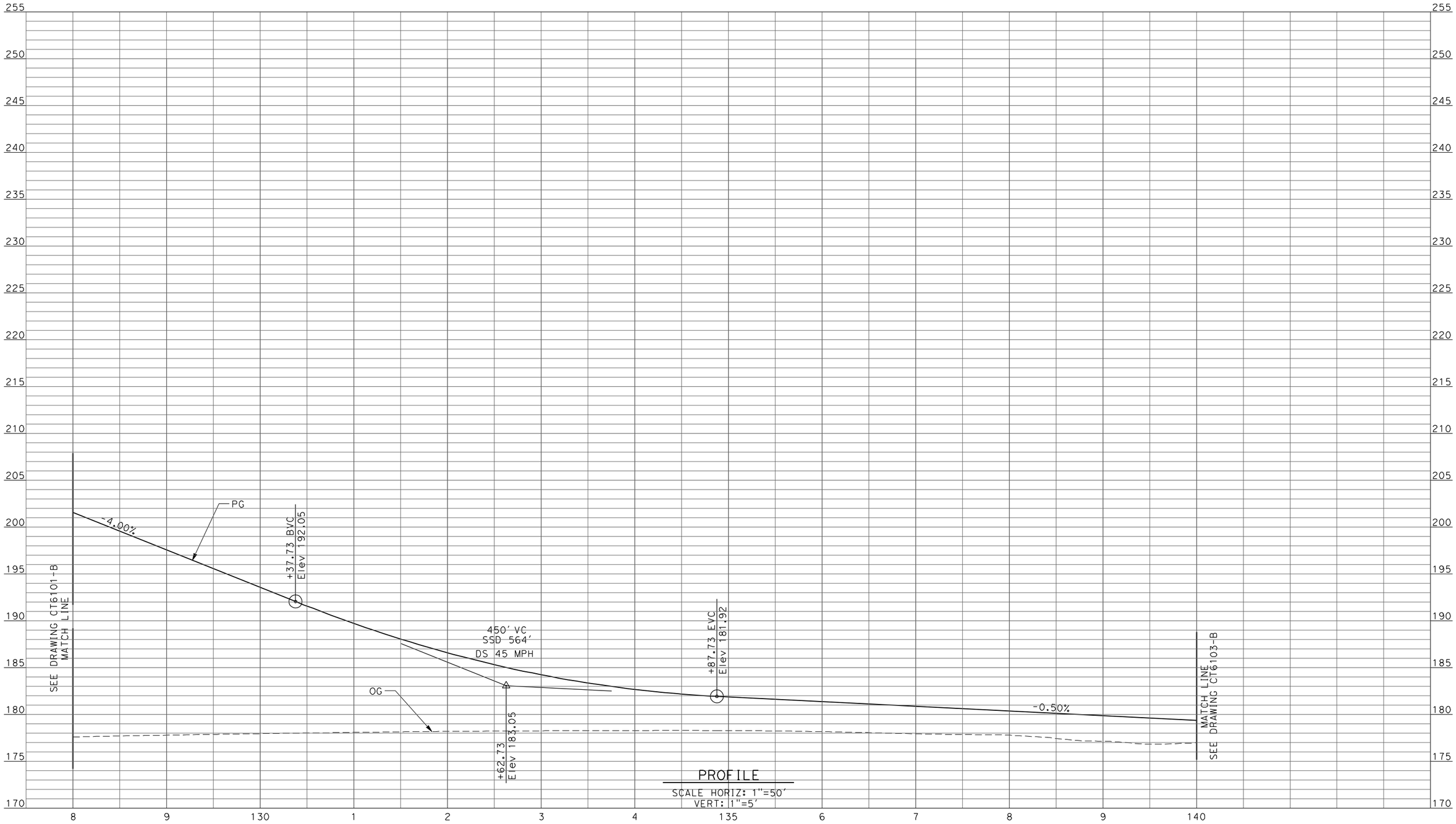
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6102-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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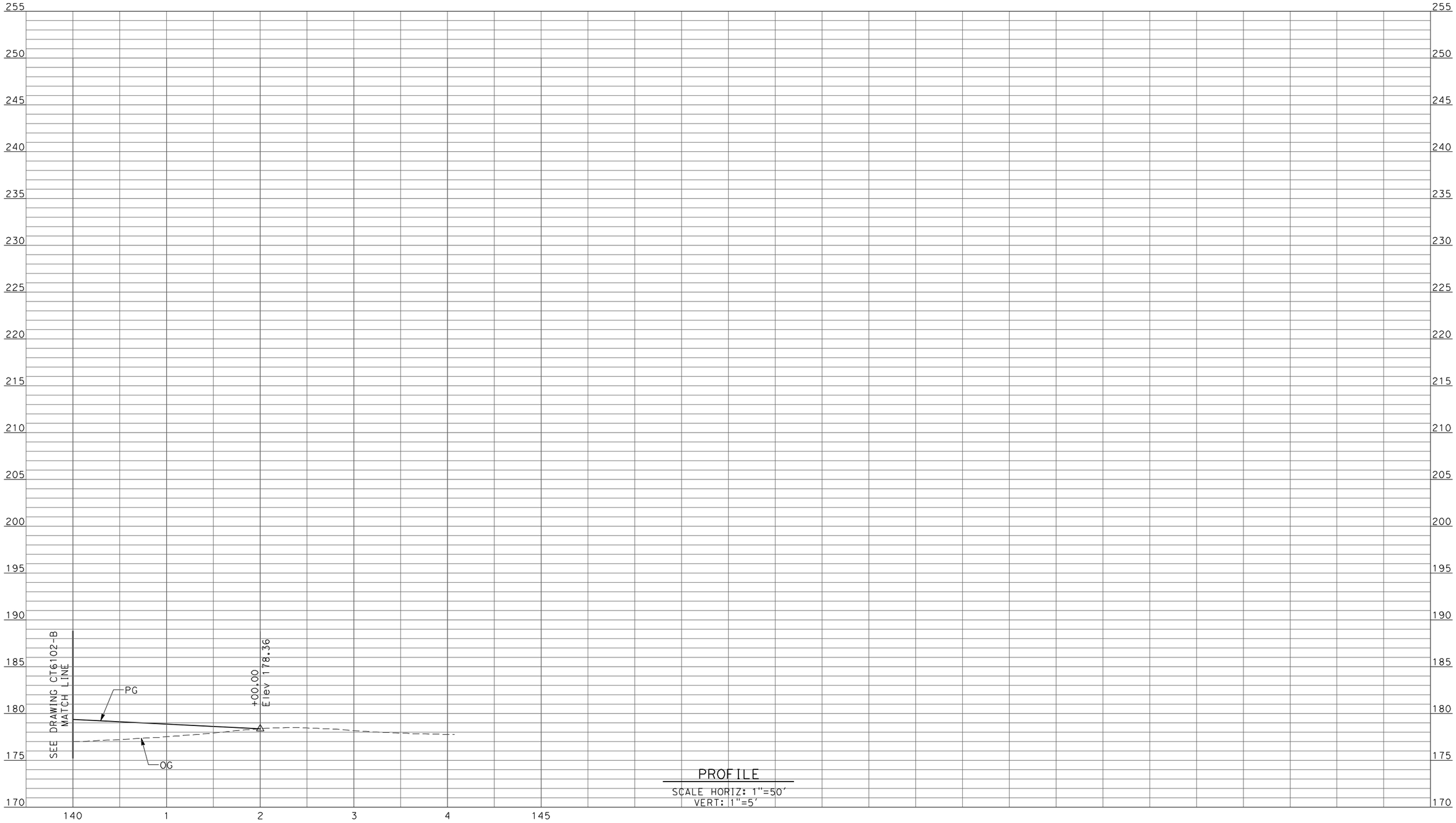

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6103-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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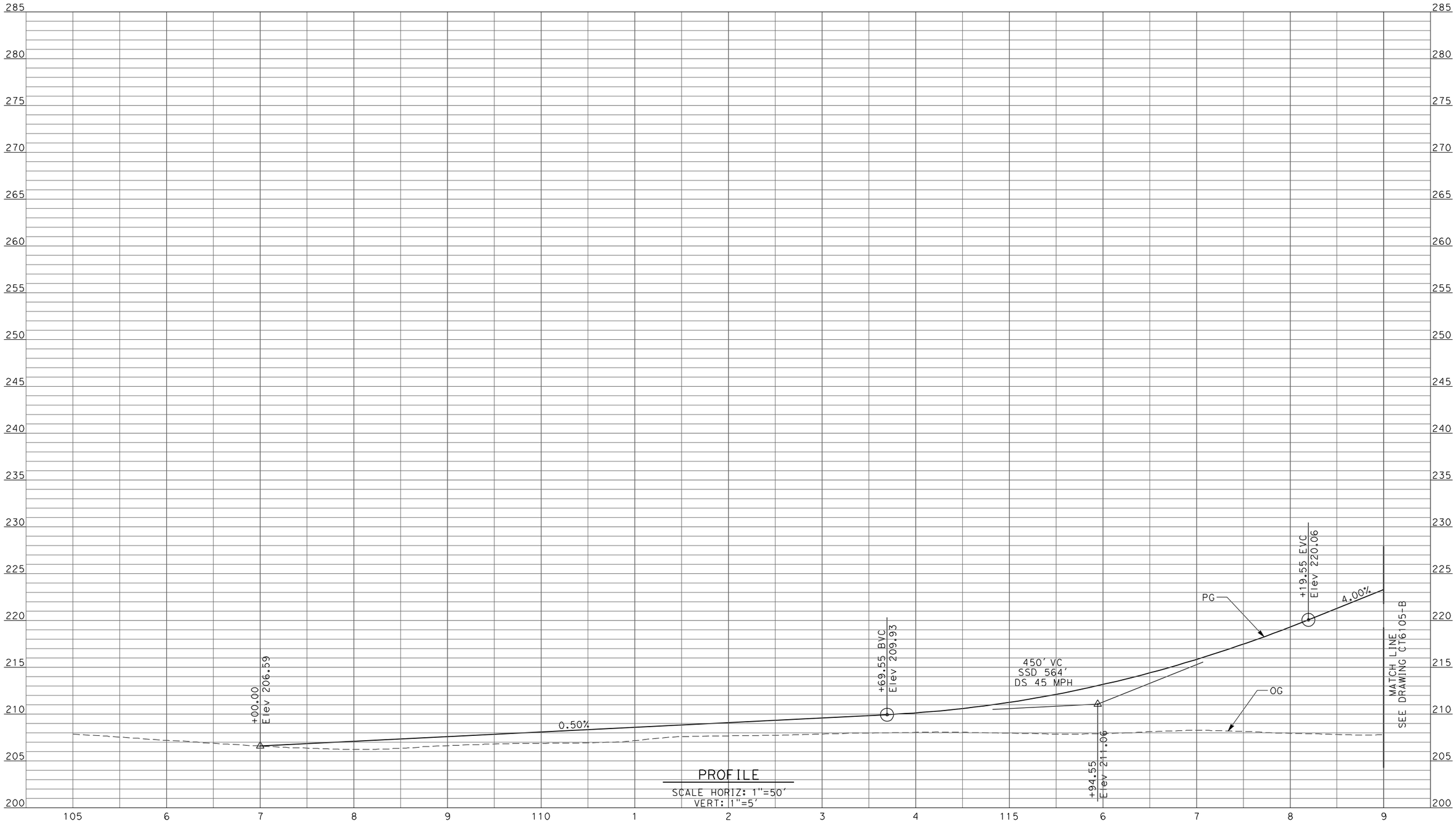

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6104-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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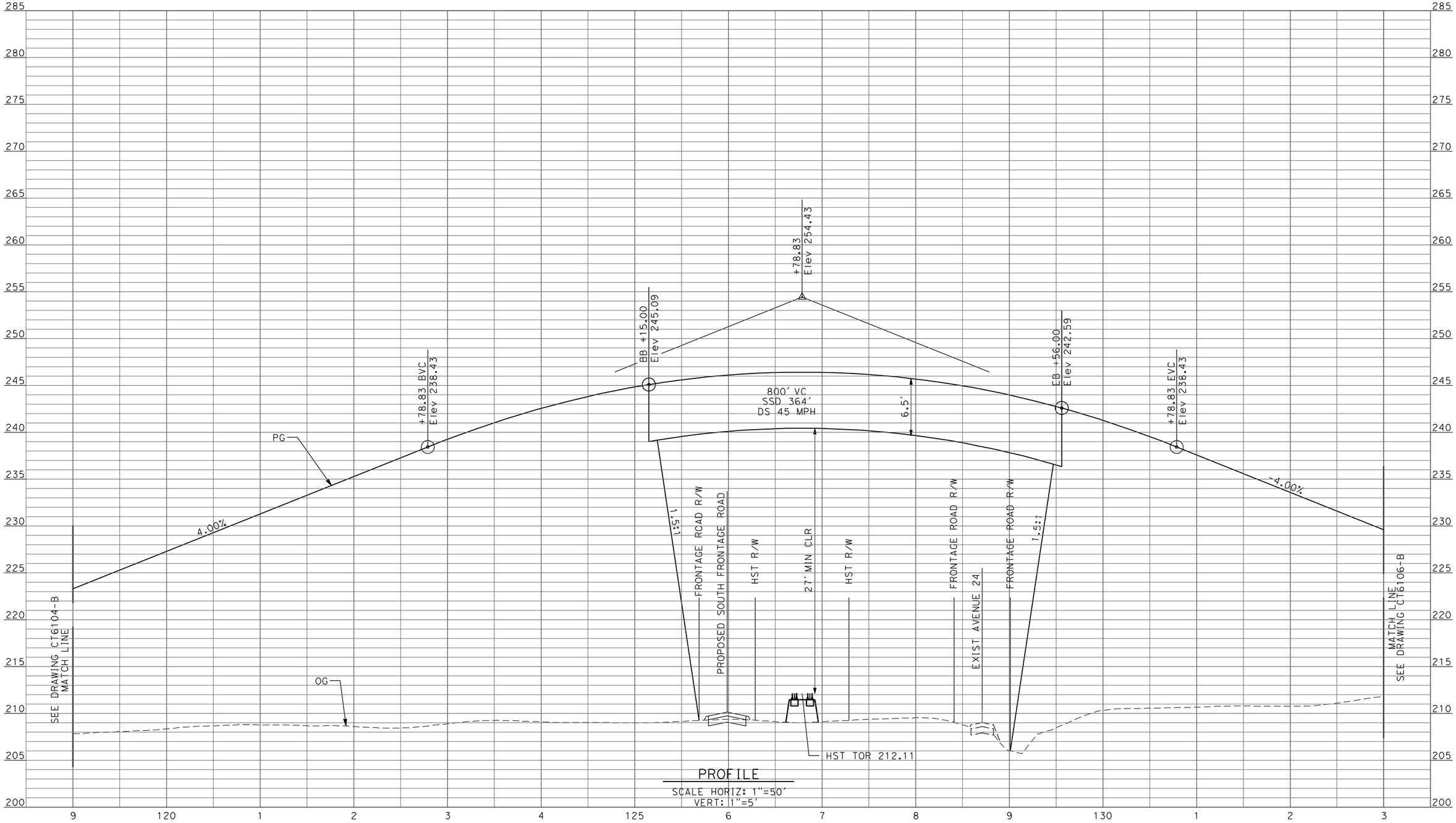

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6105-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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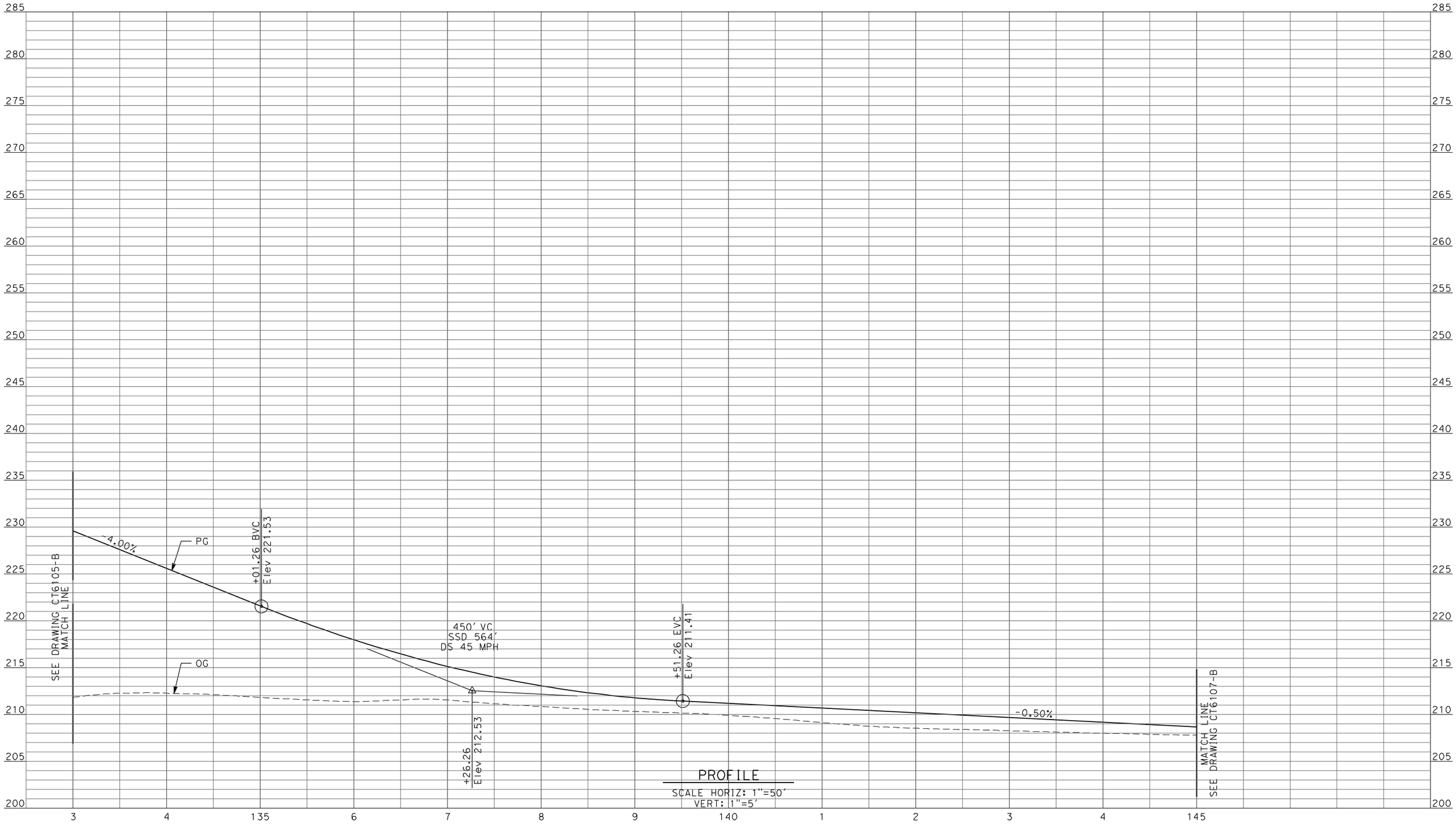

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6106-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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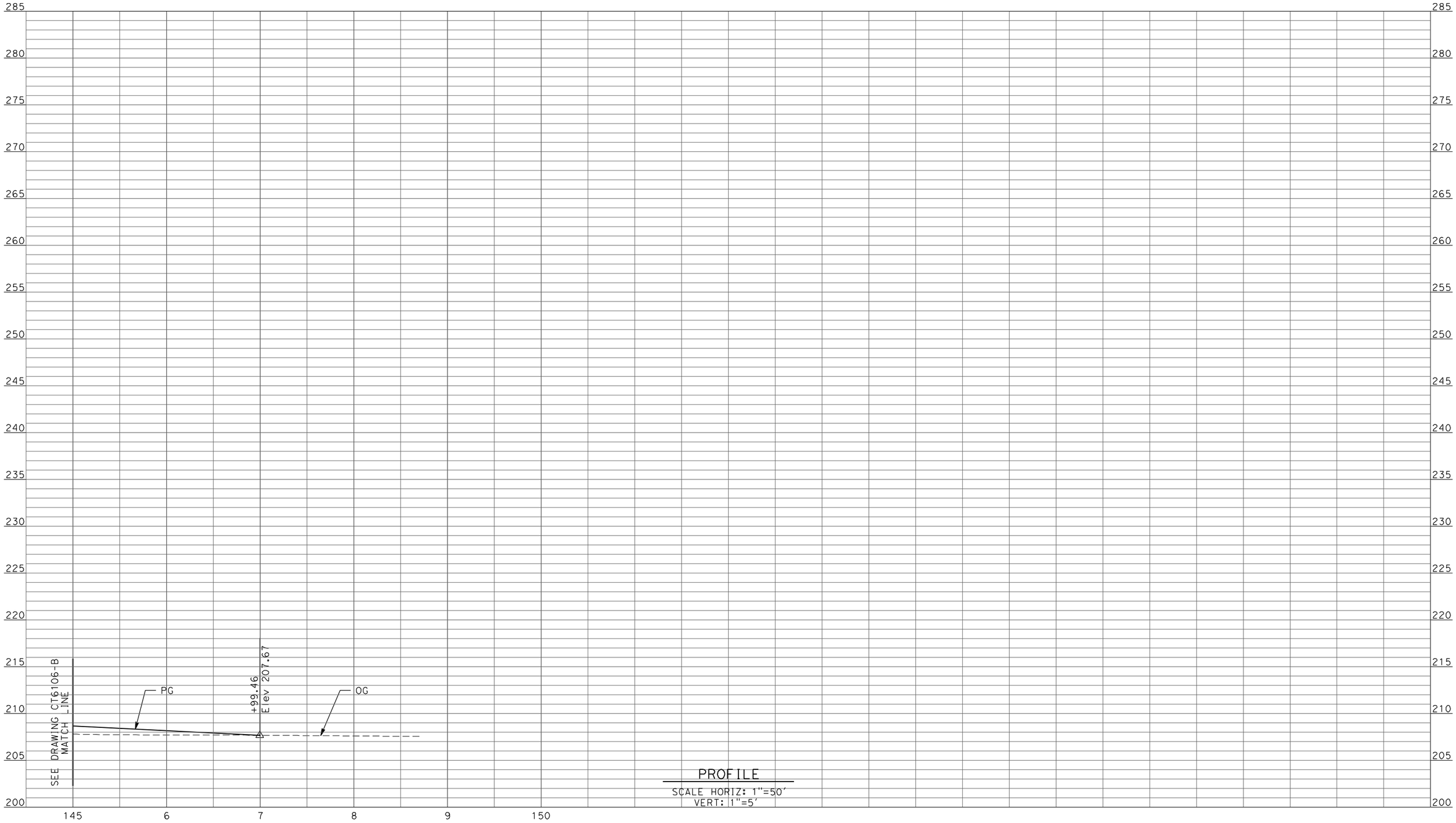

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6107-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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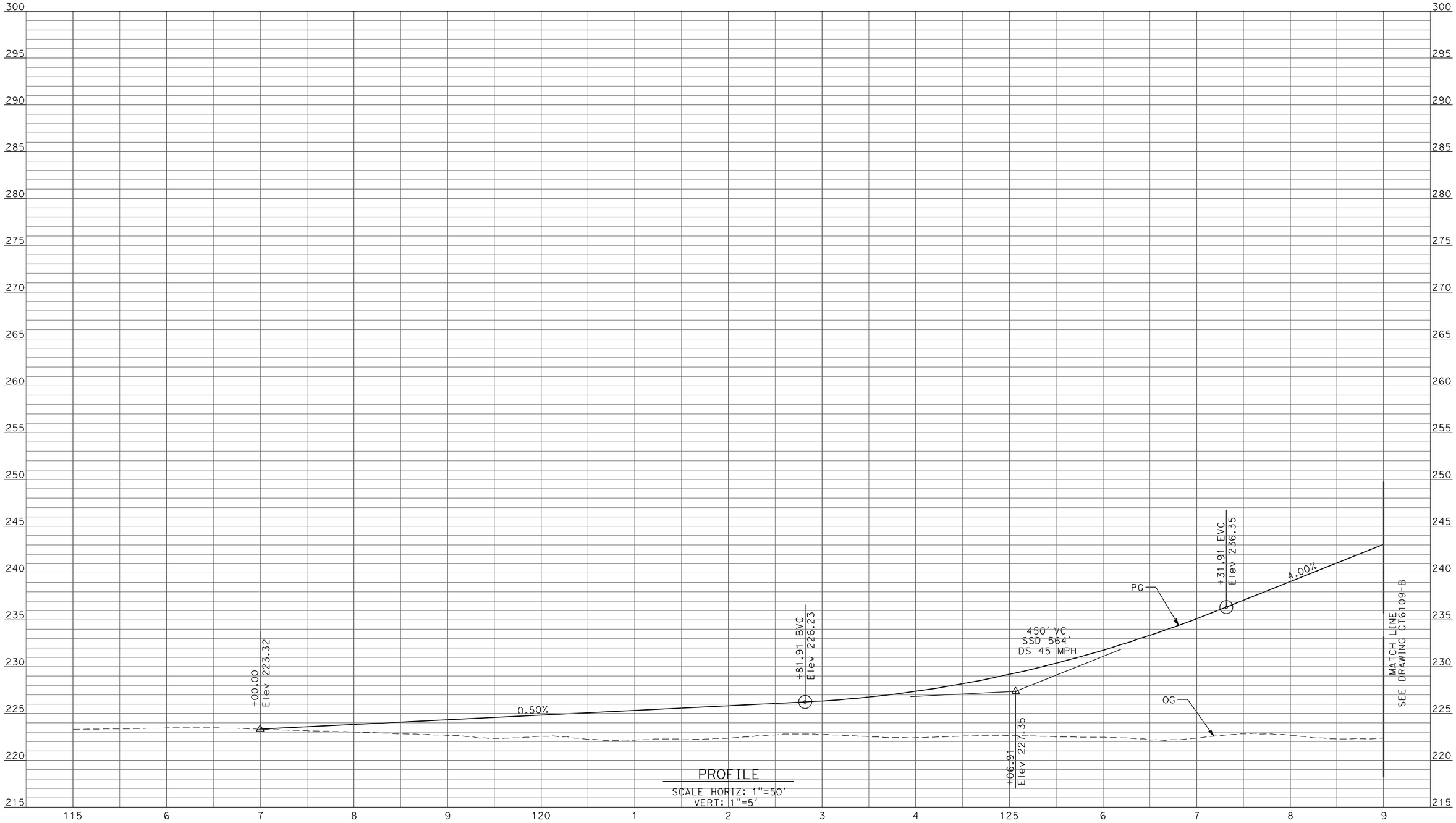

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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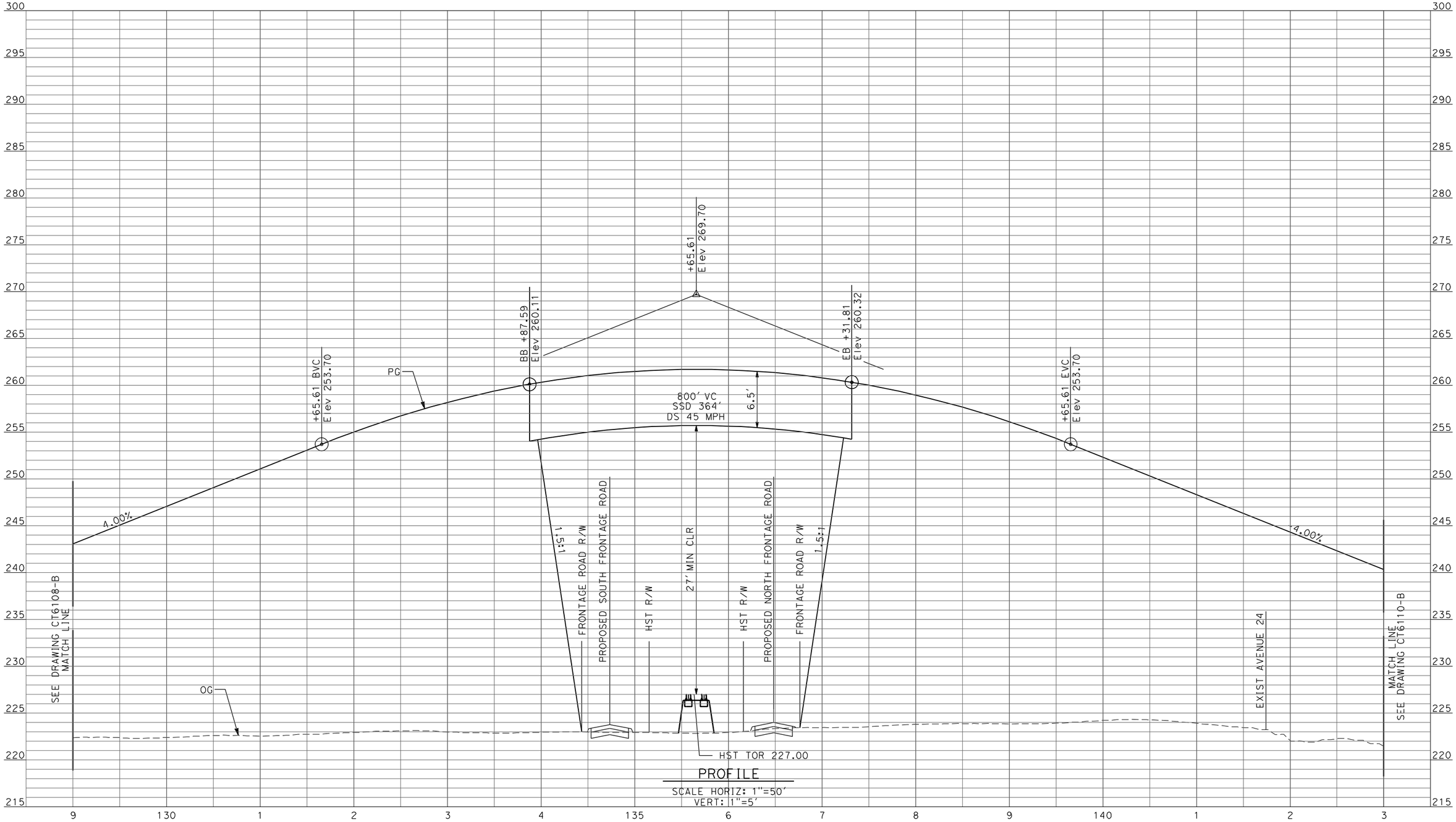
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6108-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6109-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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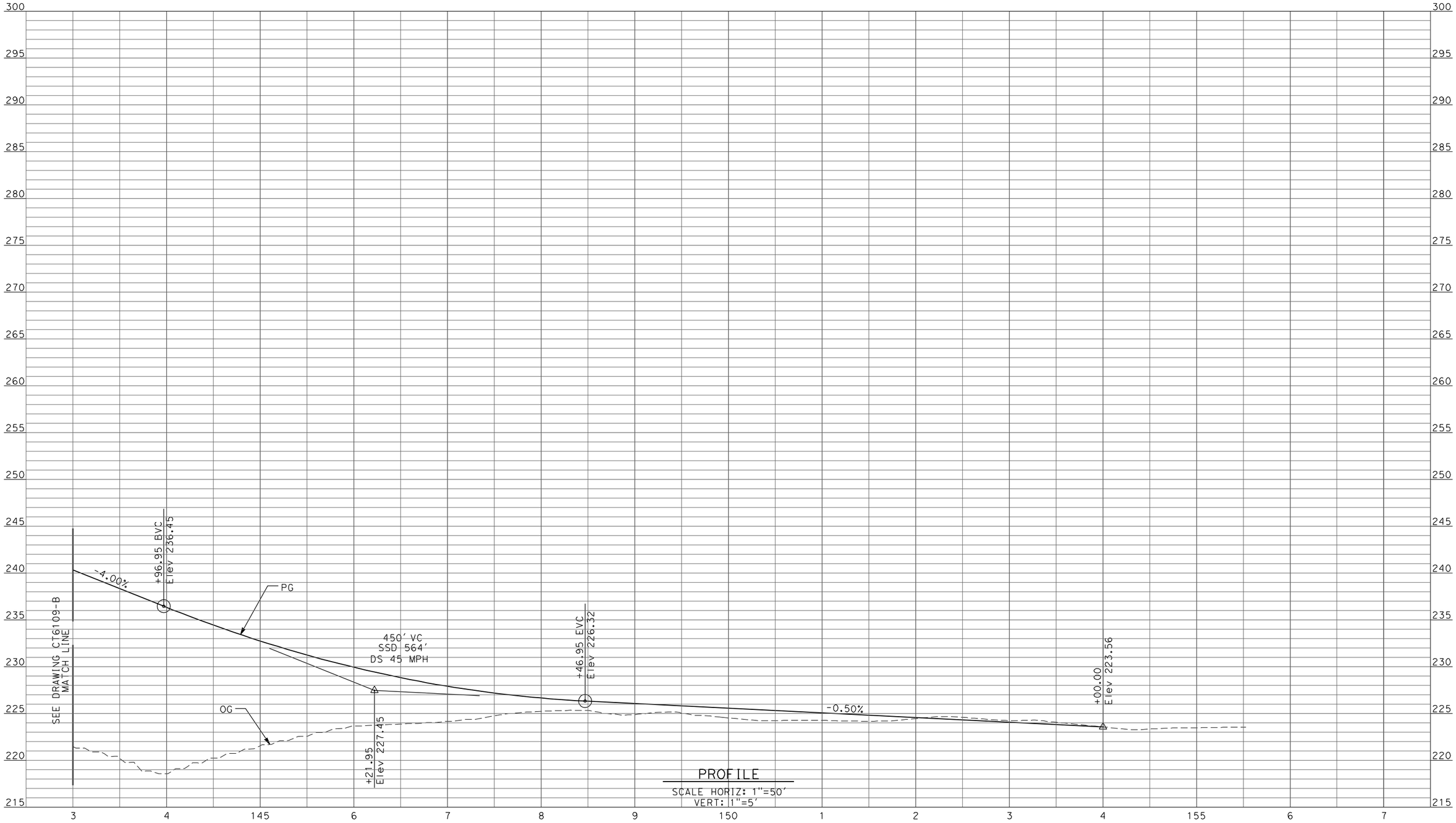

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811
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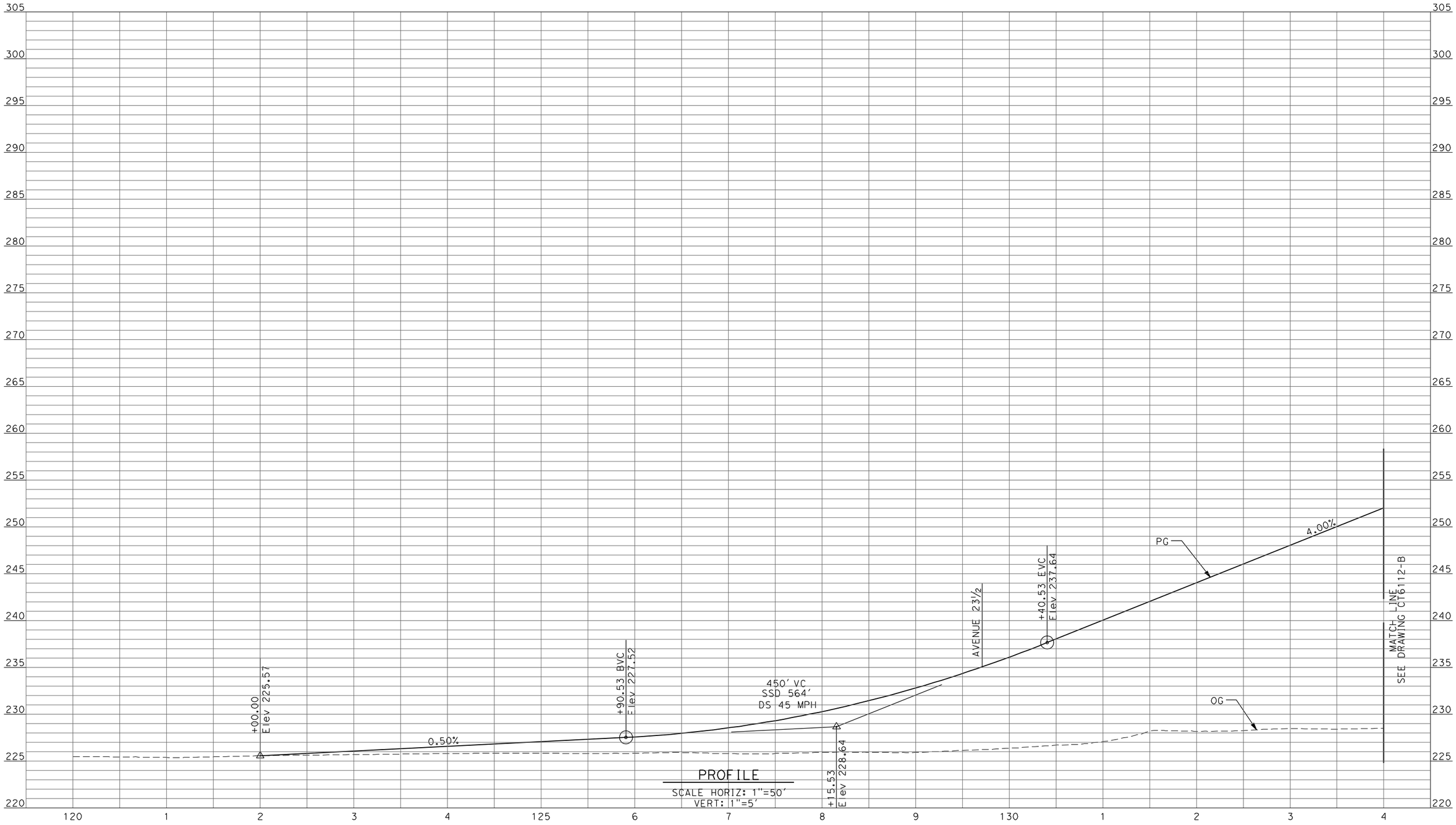
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6110-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1 4/27/2011 6:36:57 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Profile\CT6111-B.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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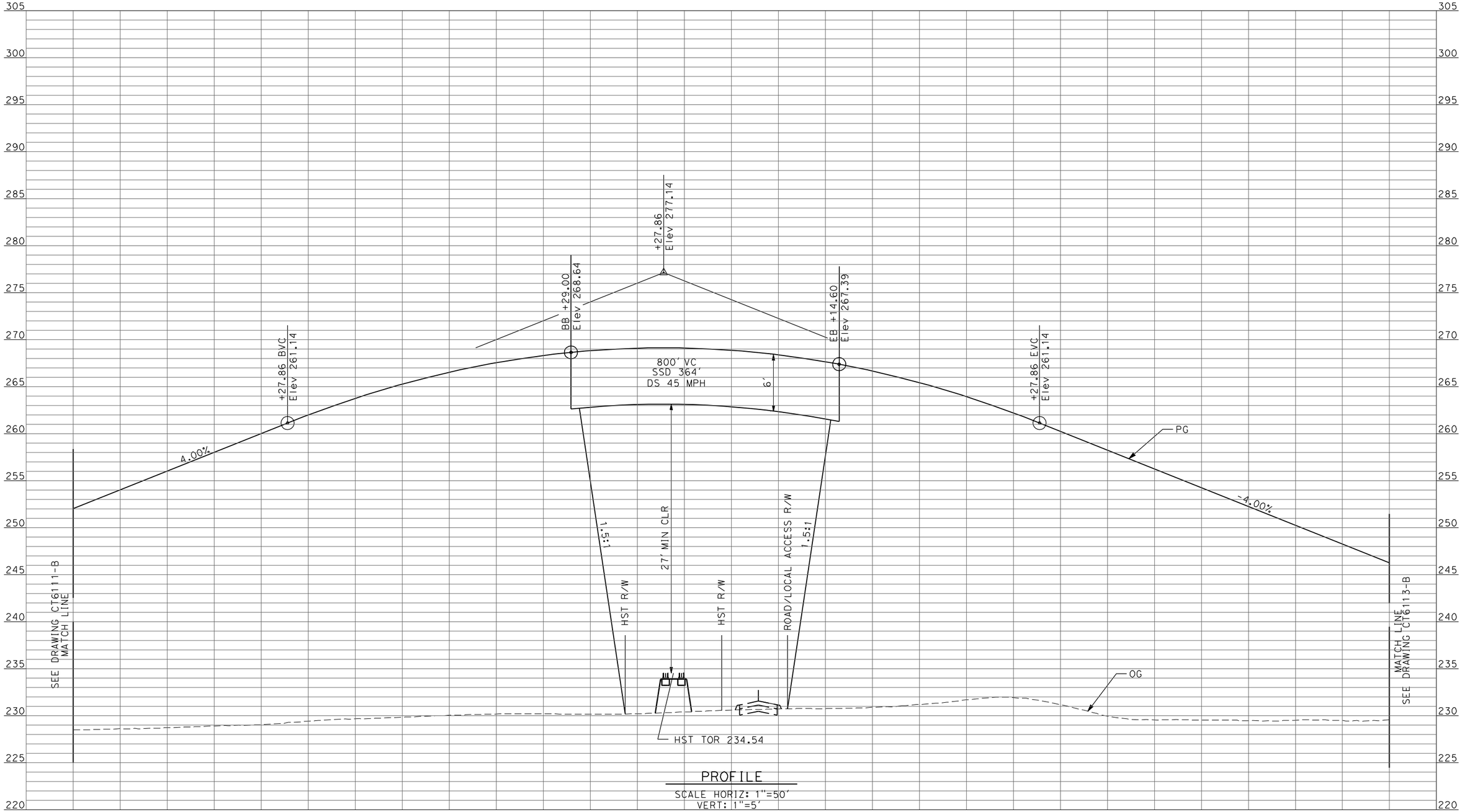
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6111-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6112-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 6:37:04 PM
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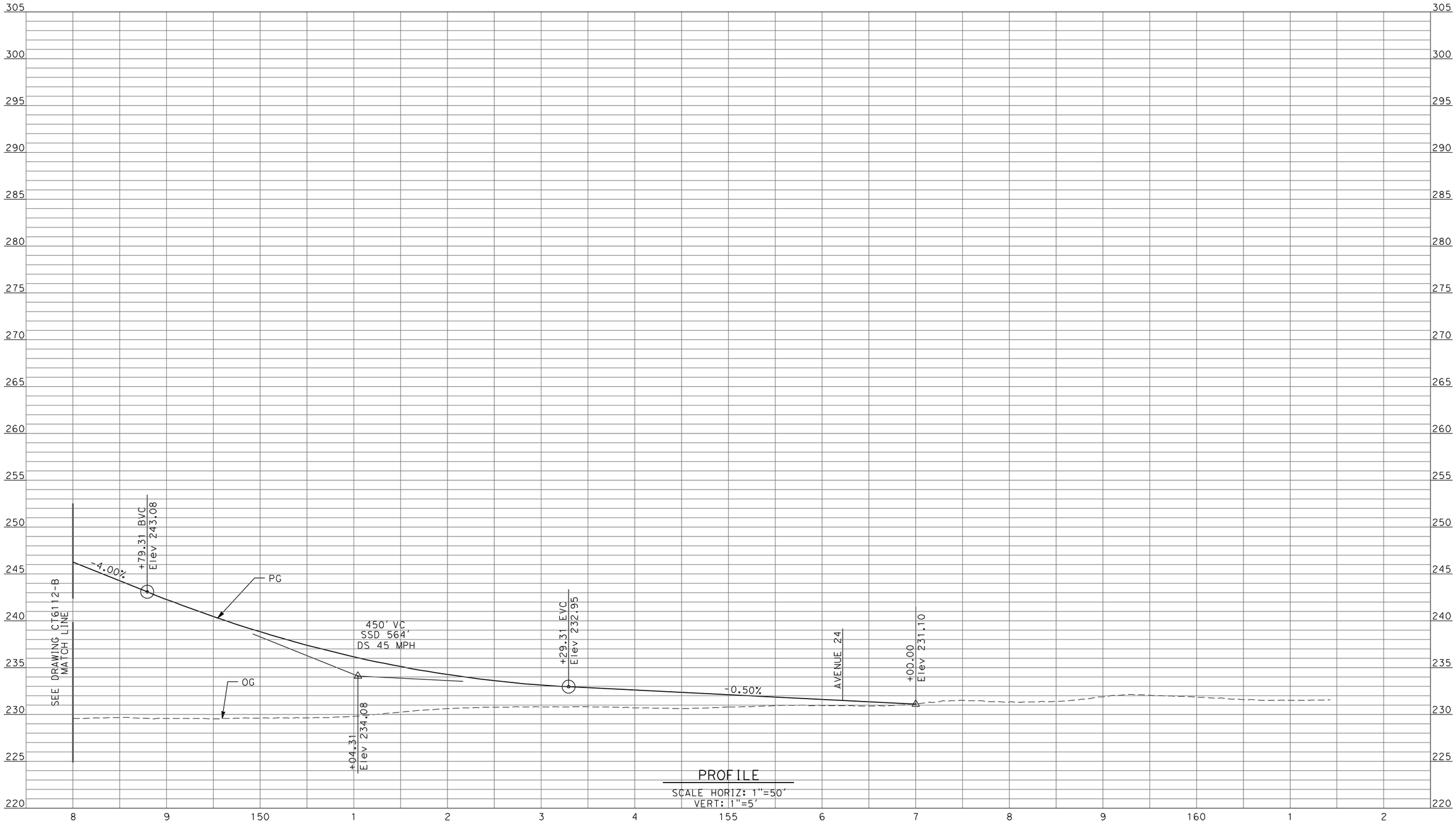

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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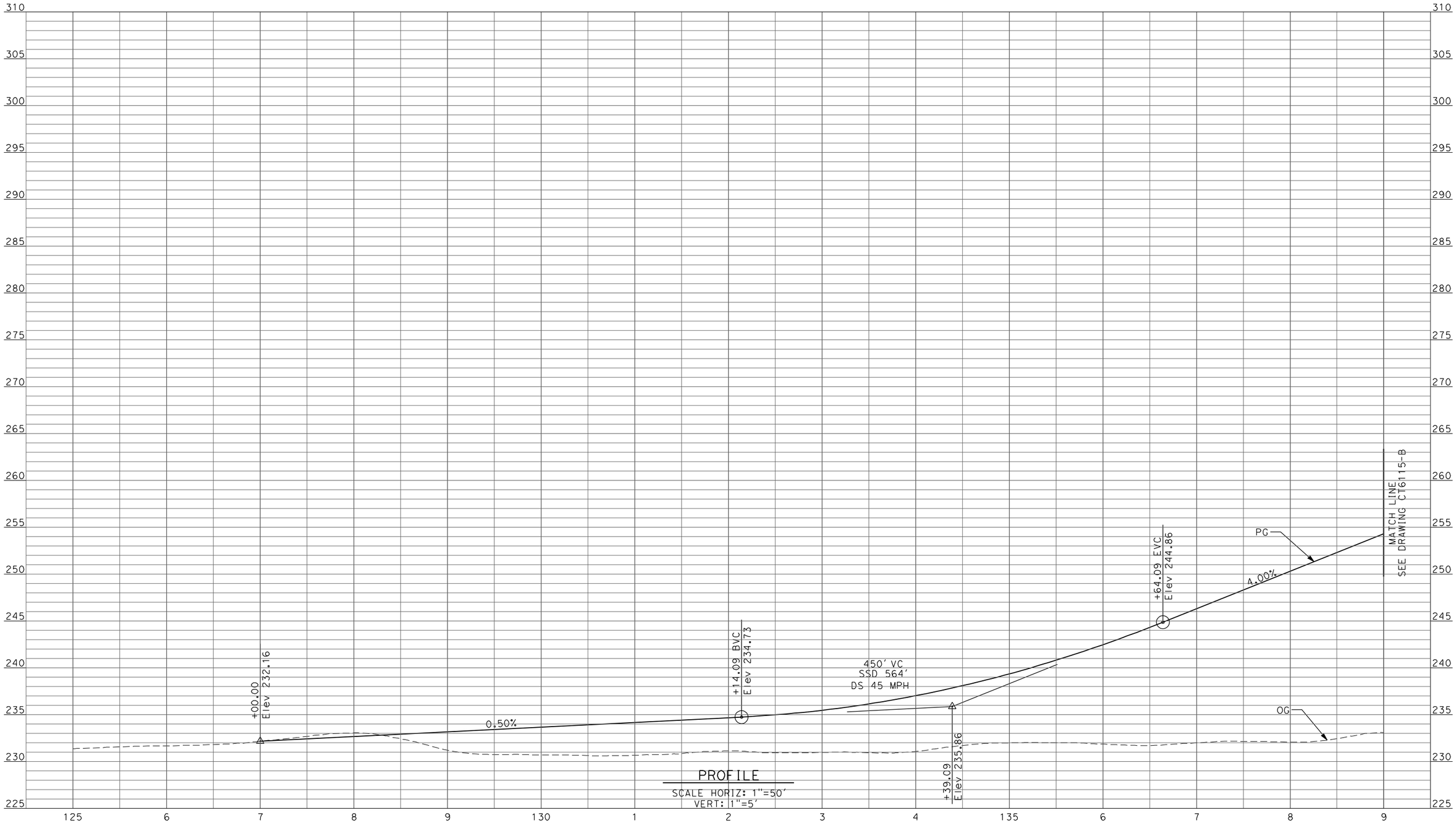
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6113-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:37:07 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Profile\CT6114-B.dgn ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6114-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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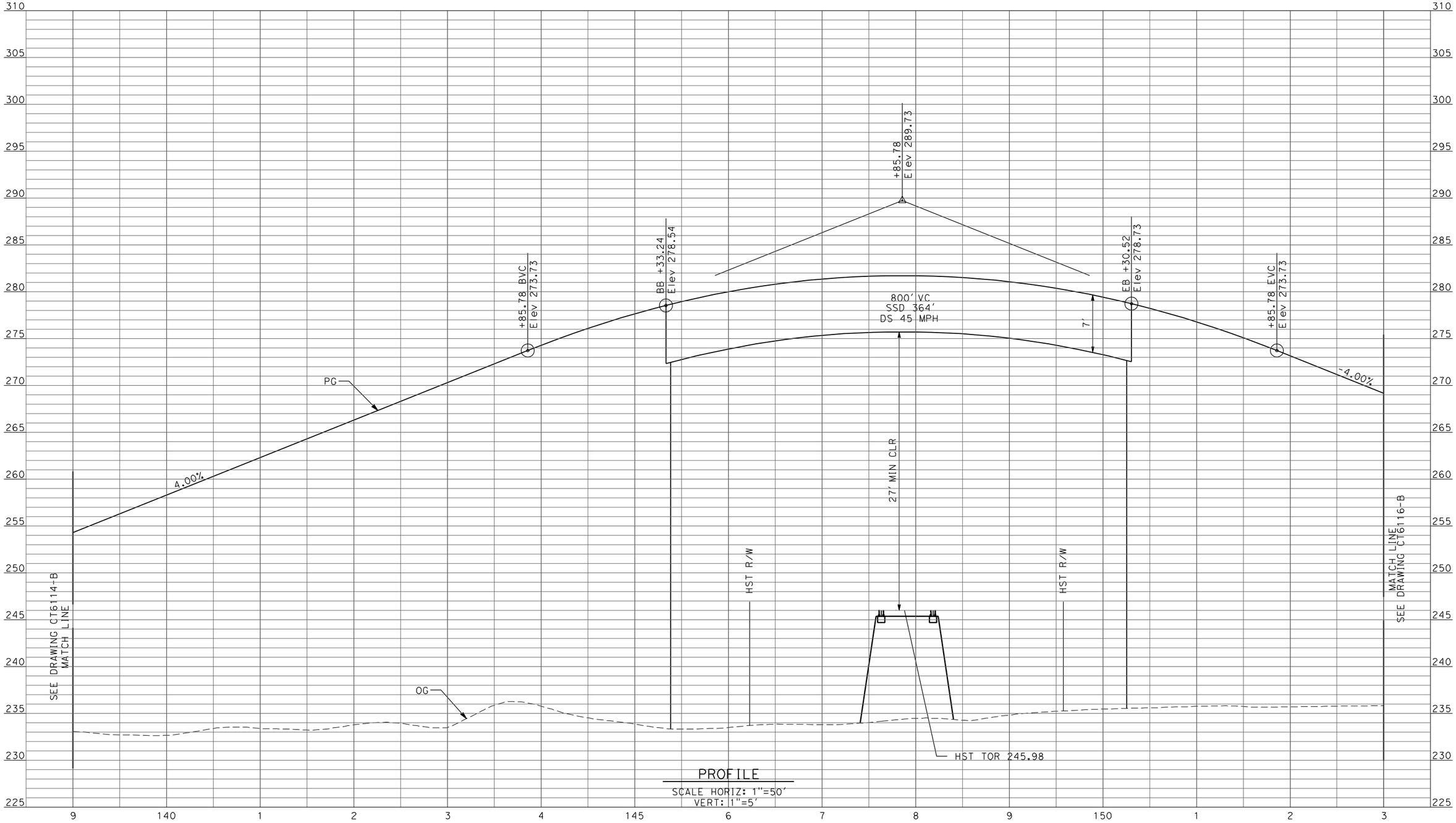

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6115-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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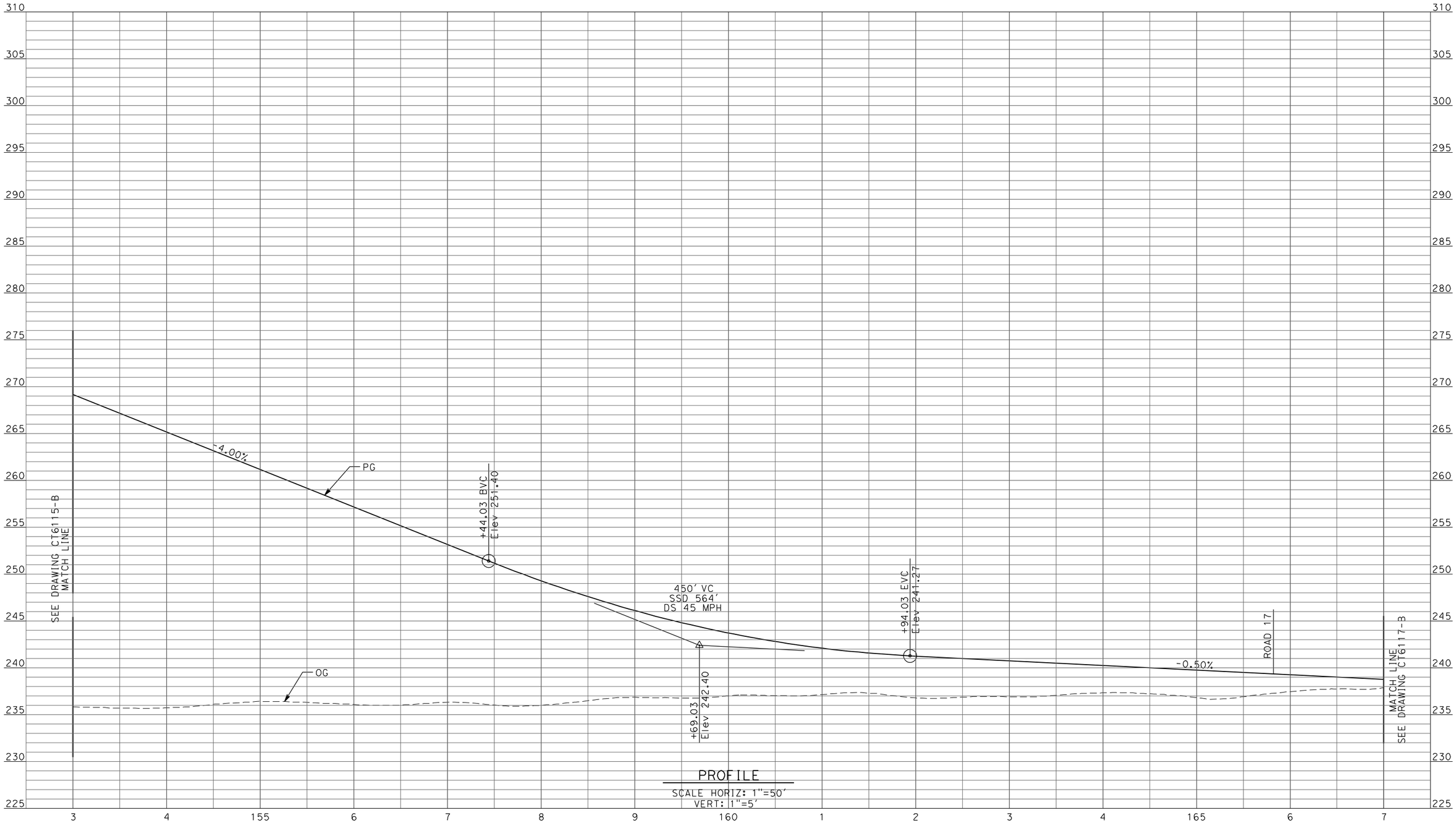

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6116-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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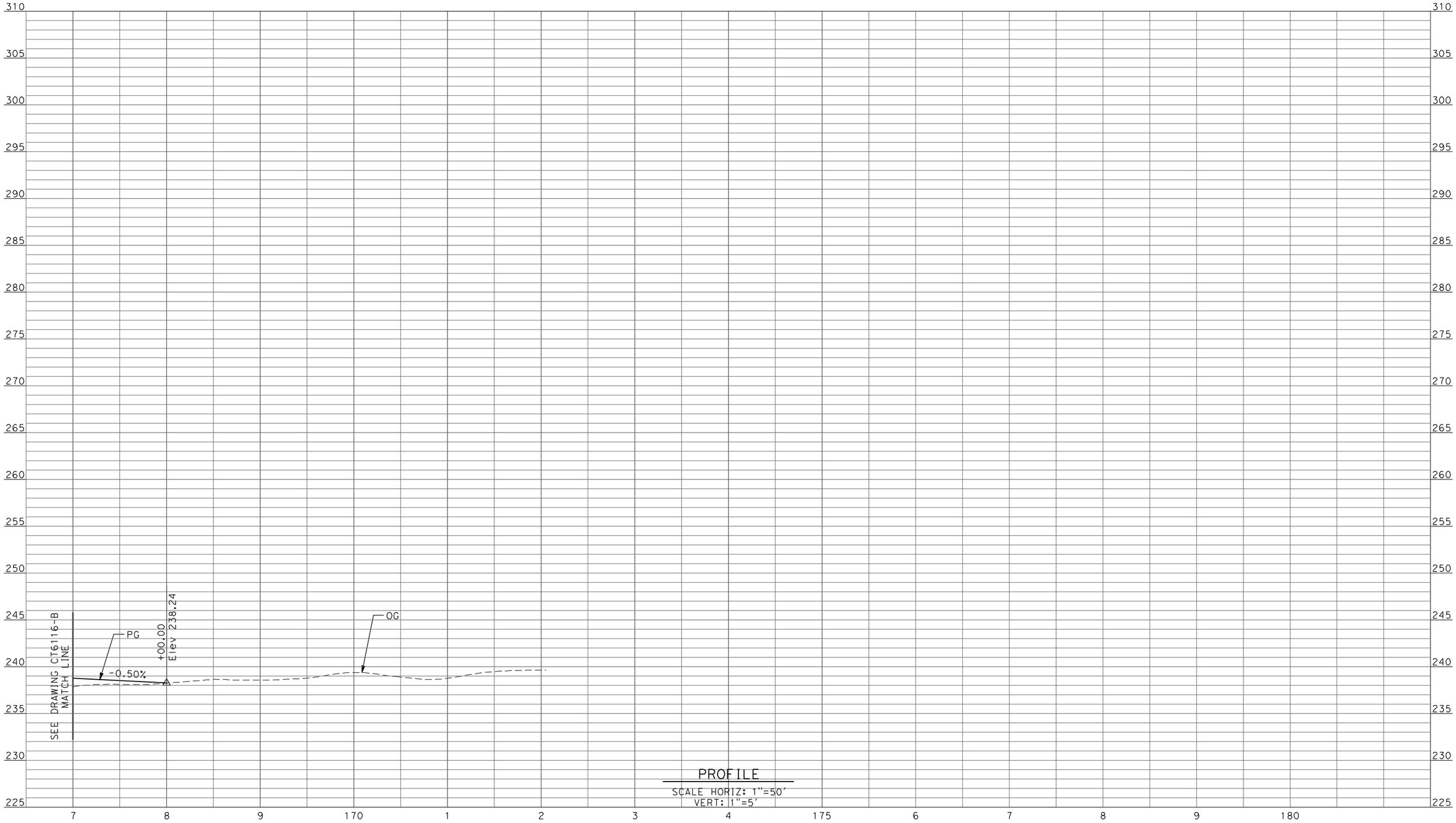

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6117-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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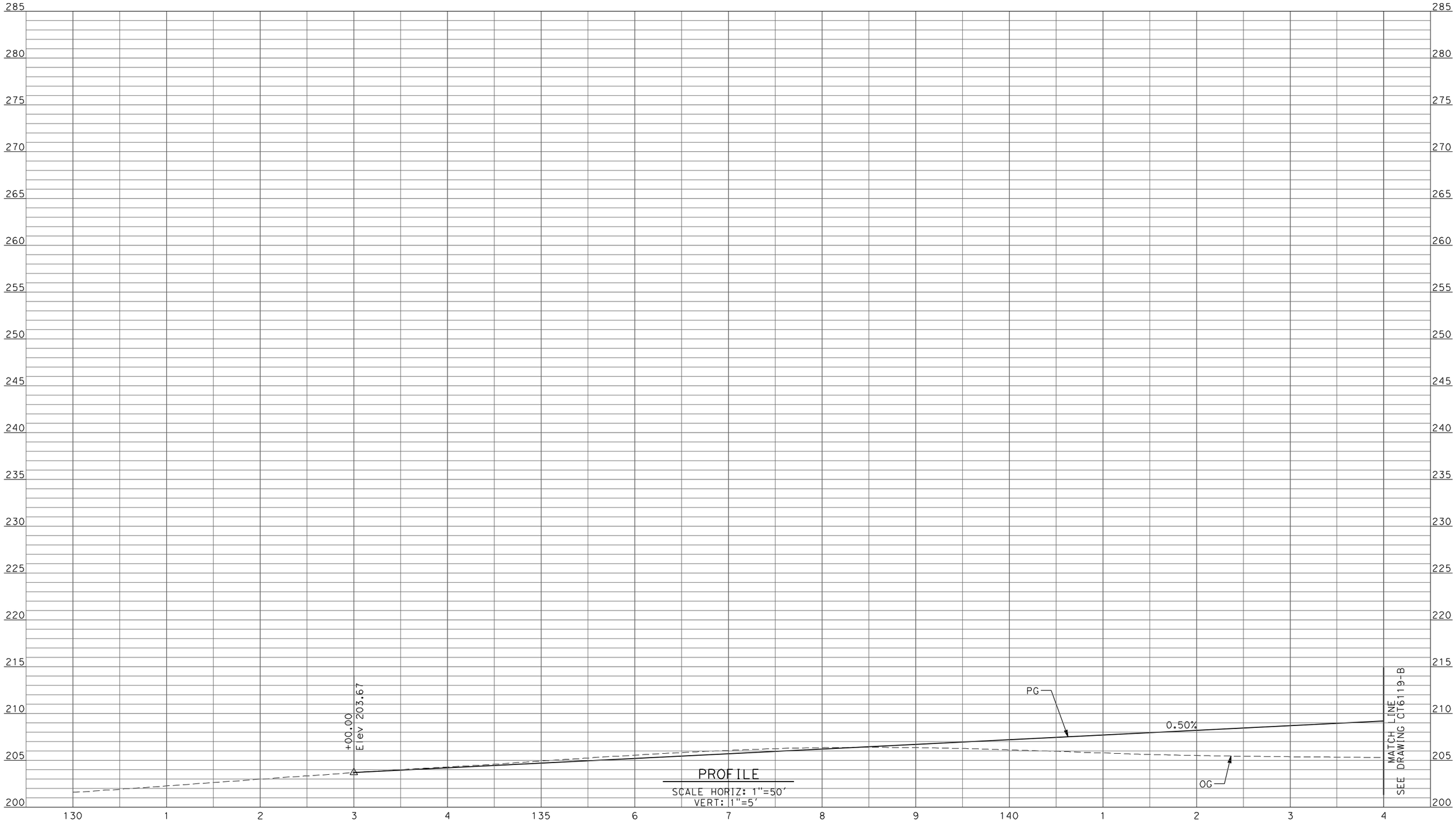

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6118-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 6:37:25 PM
ReyesCl

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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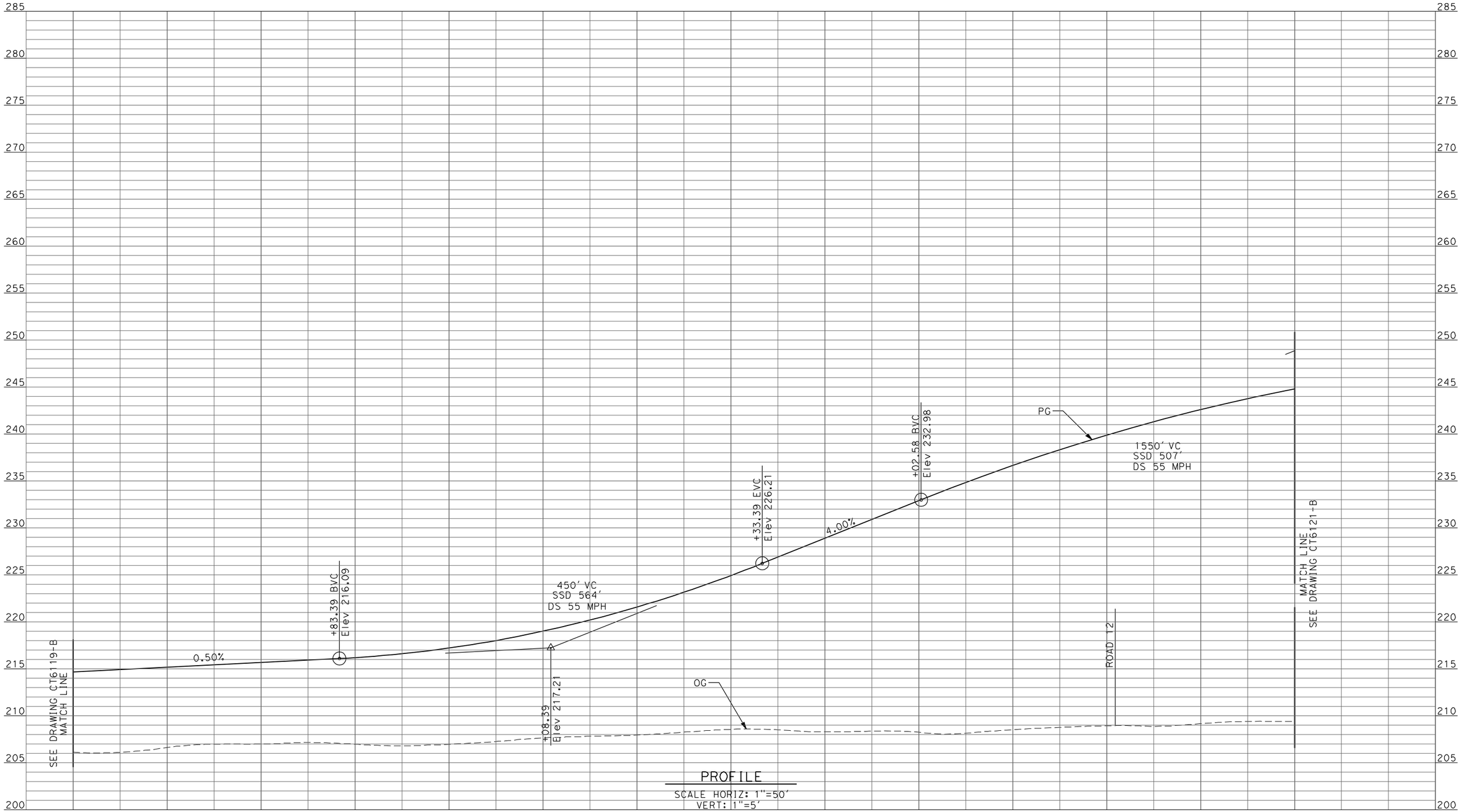
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6119-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	D. AYELE
DRAWN BY	C. DELOS REYES
CHECKED BY	A. SILVER
IN CHARGE	A. BOONE
DATE	04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 3 OF 5

CONTRACT NO.	HSR06-007
DRAWING NO.	CT6120-B
SCALE	AS SHOWN
SHEET NO.	### OF ###

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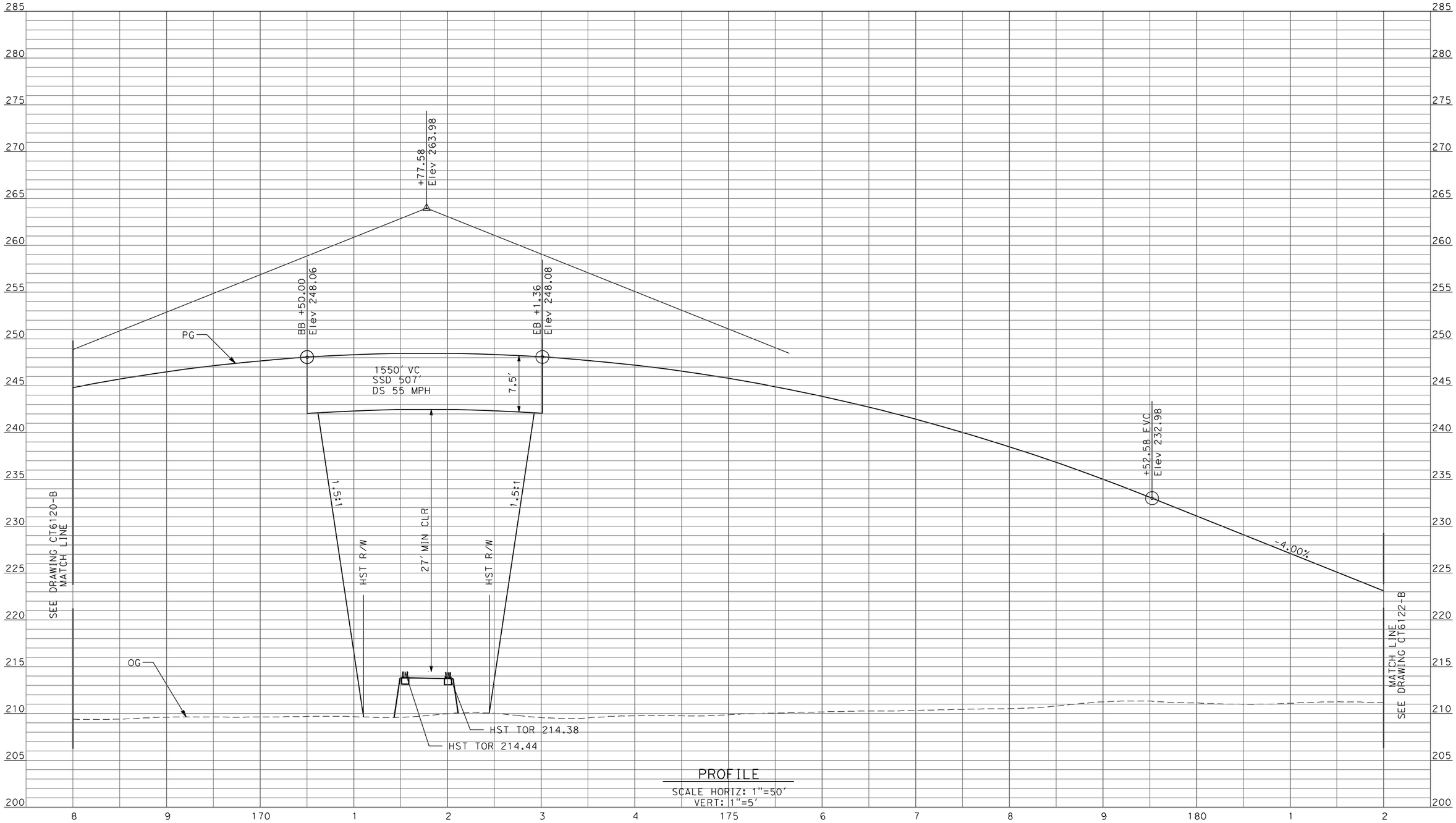
ReyesCl



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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DATE 04/29/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
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UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6121-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesCl

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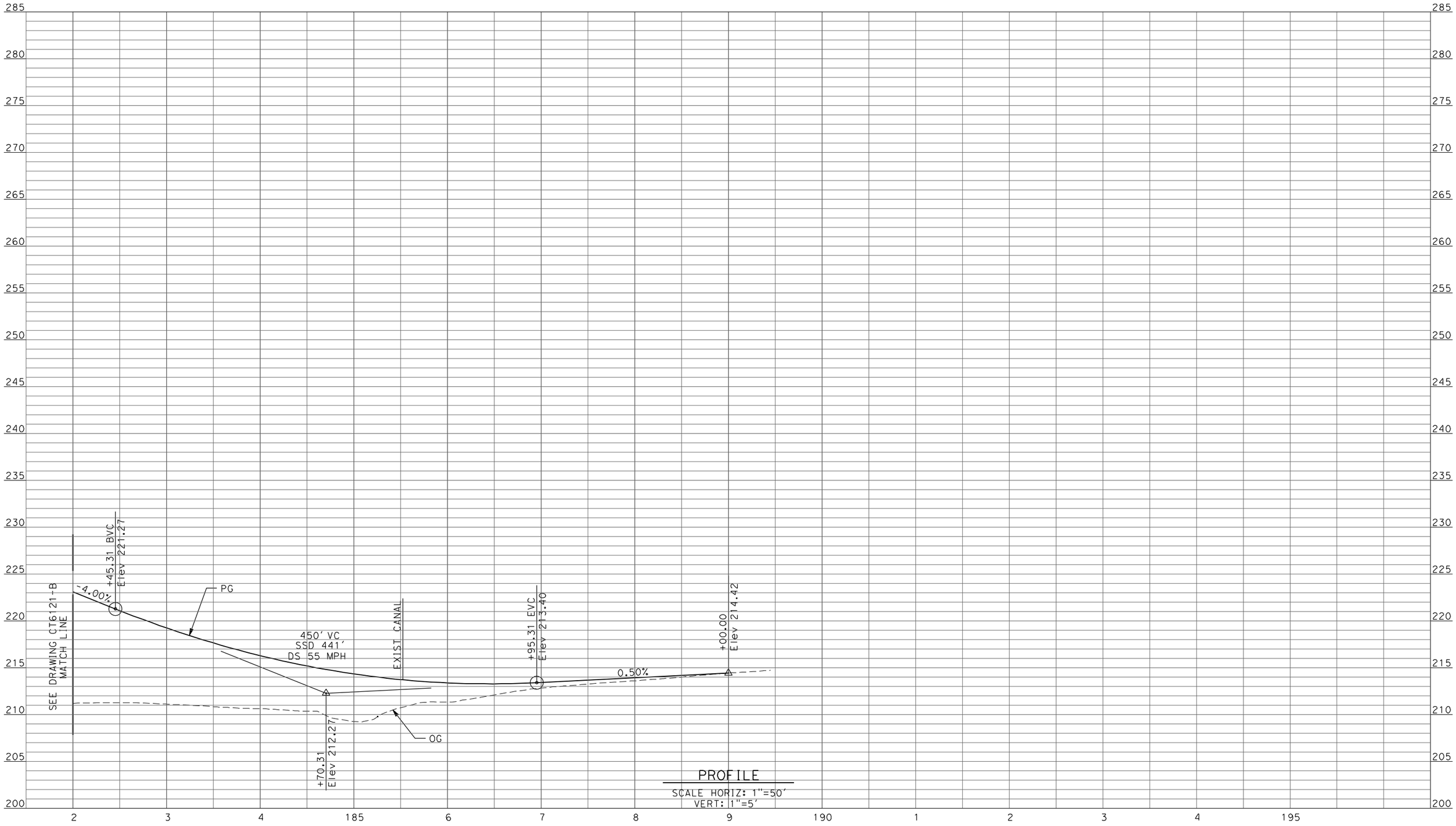
ReyesCl



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6122-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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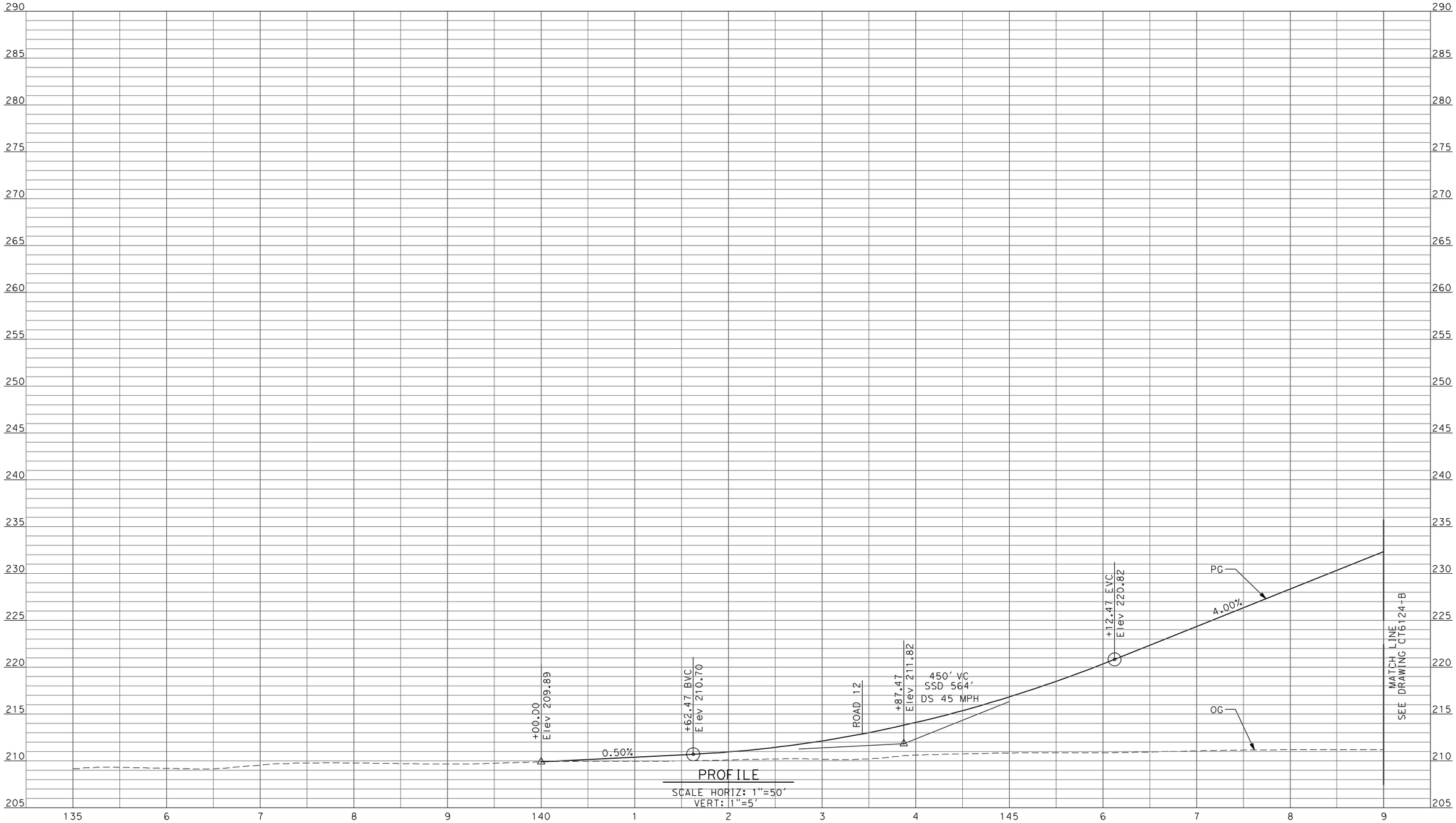

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 26
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6123-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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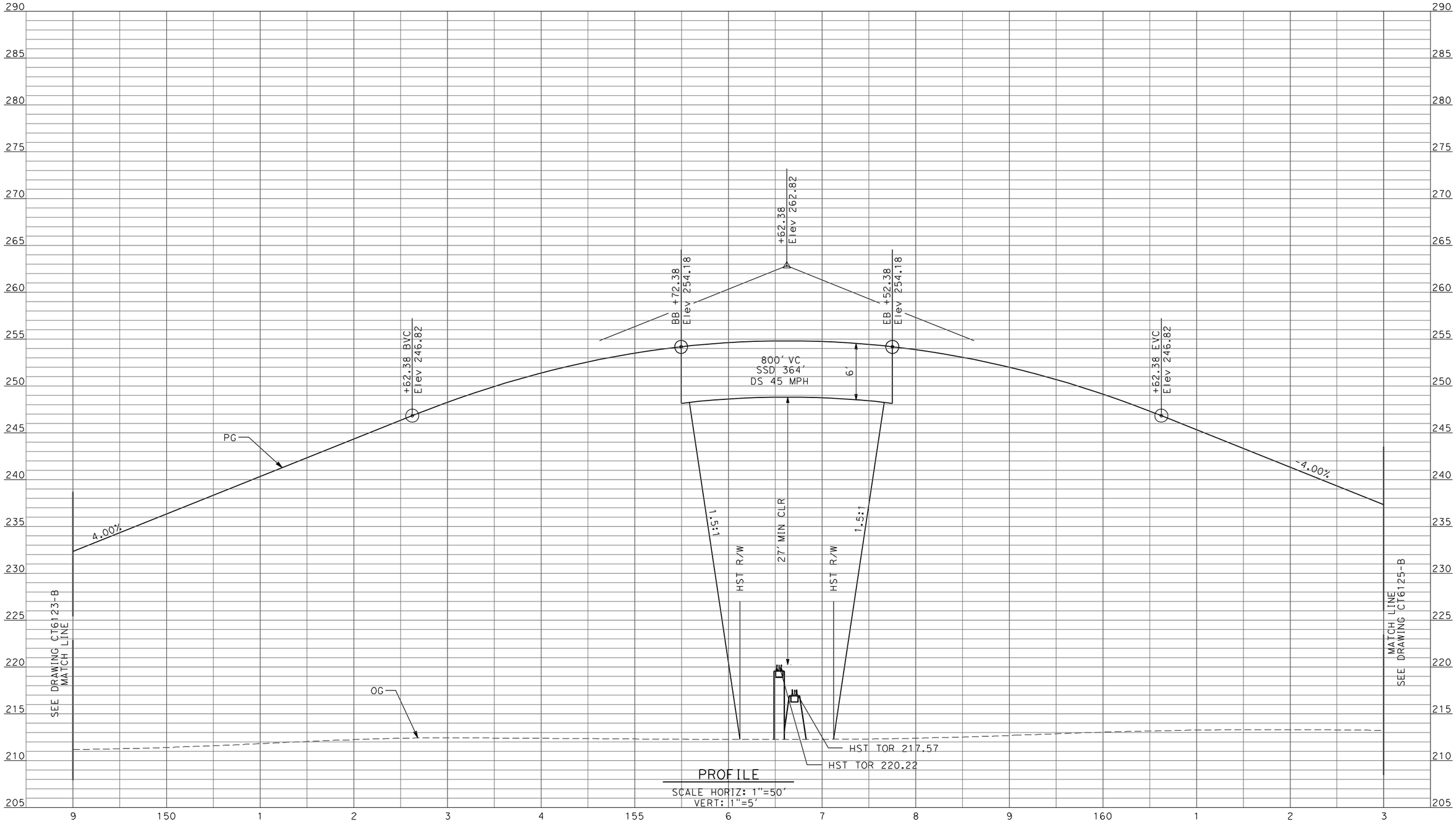
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 26
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6124-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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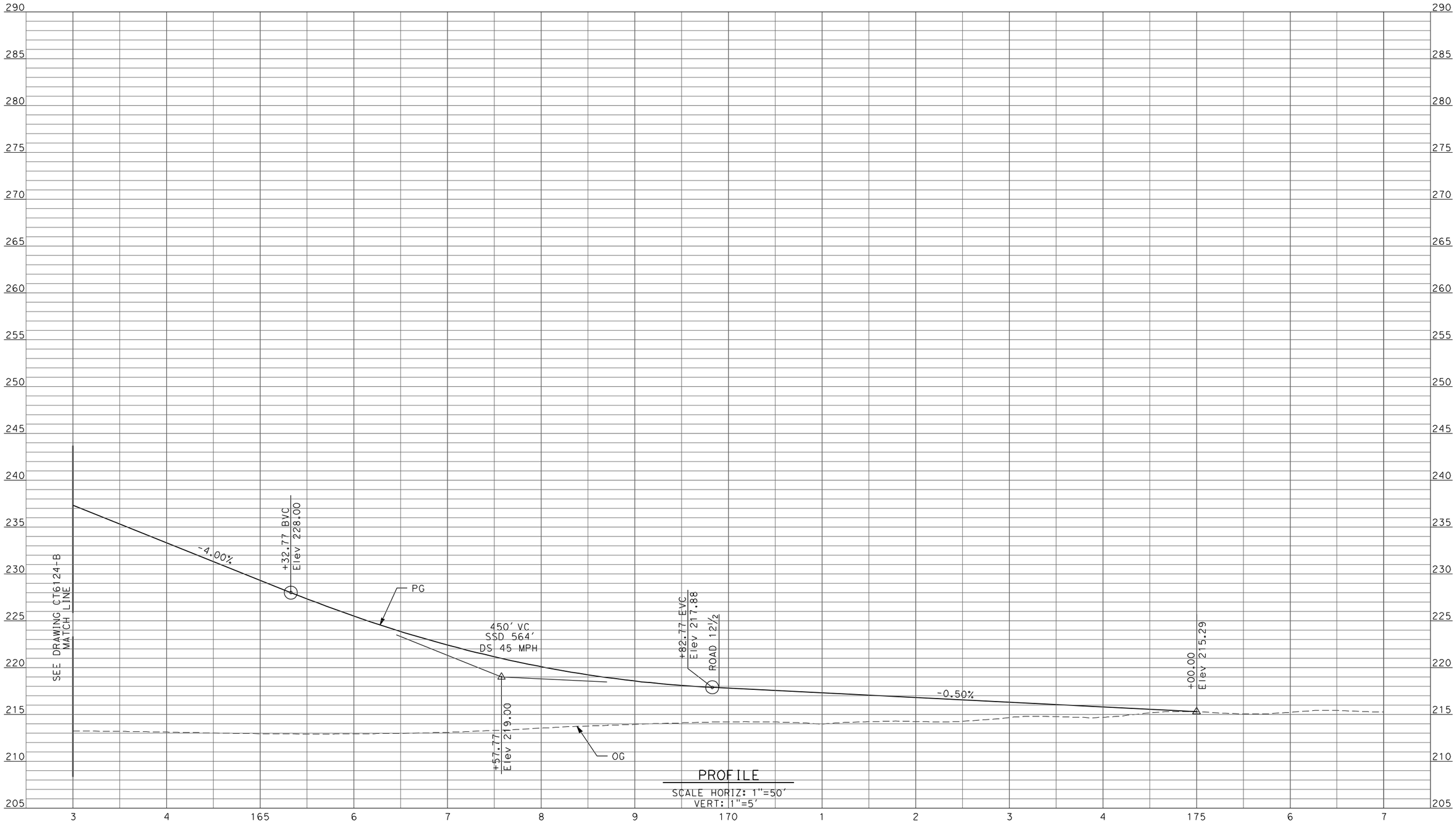
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - AVENUE 26
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6125-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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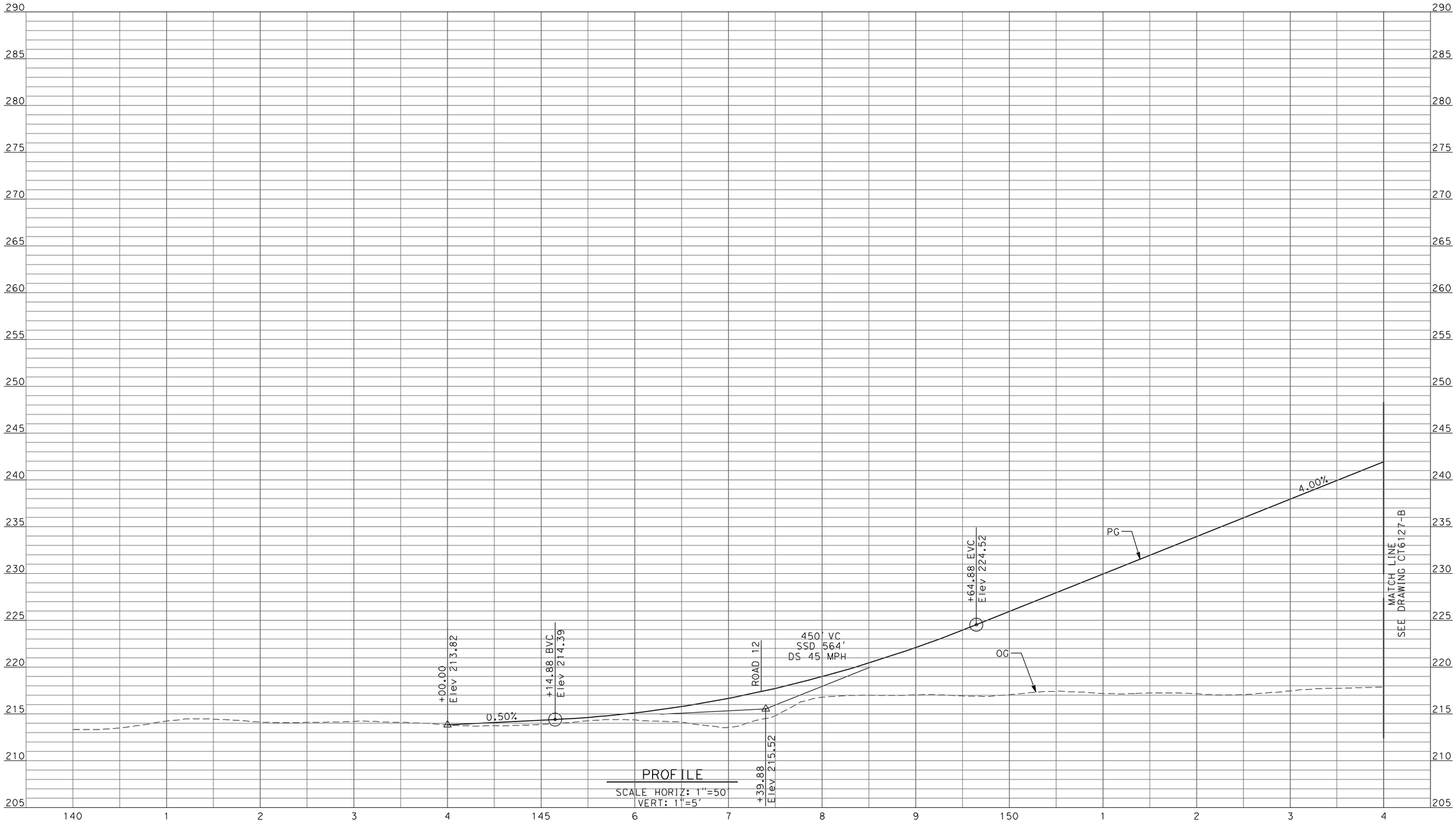
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6126-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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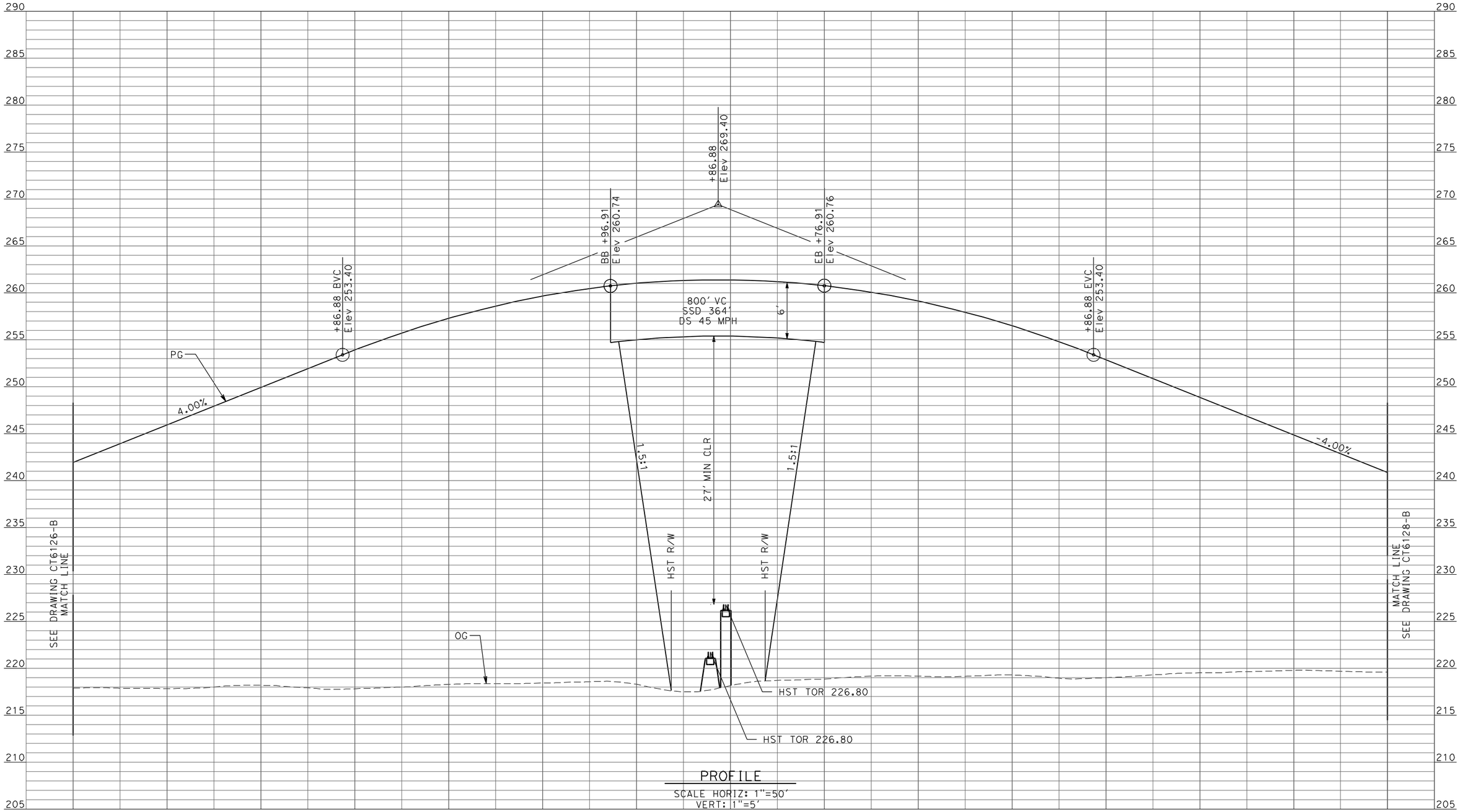

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6127-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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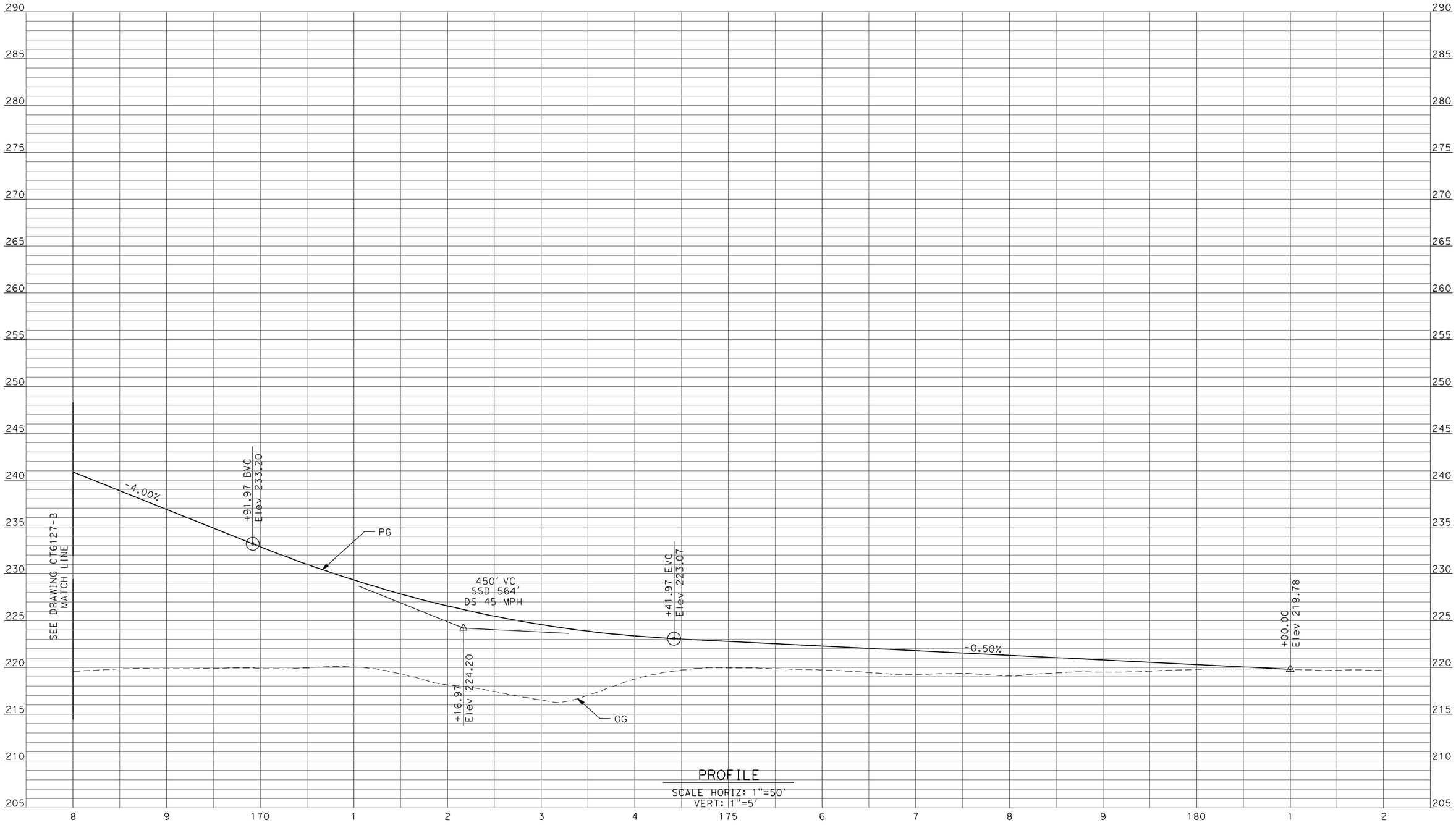

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6128-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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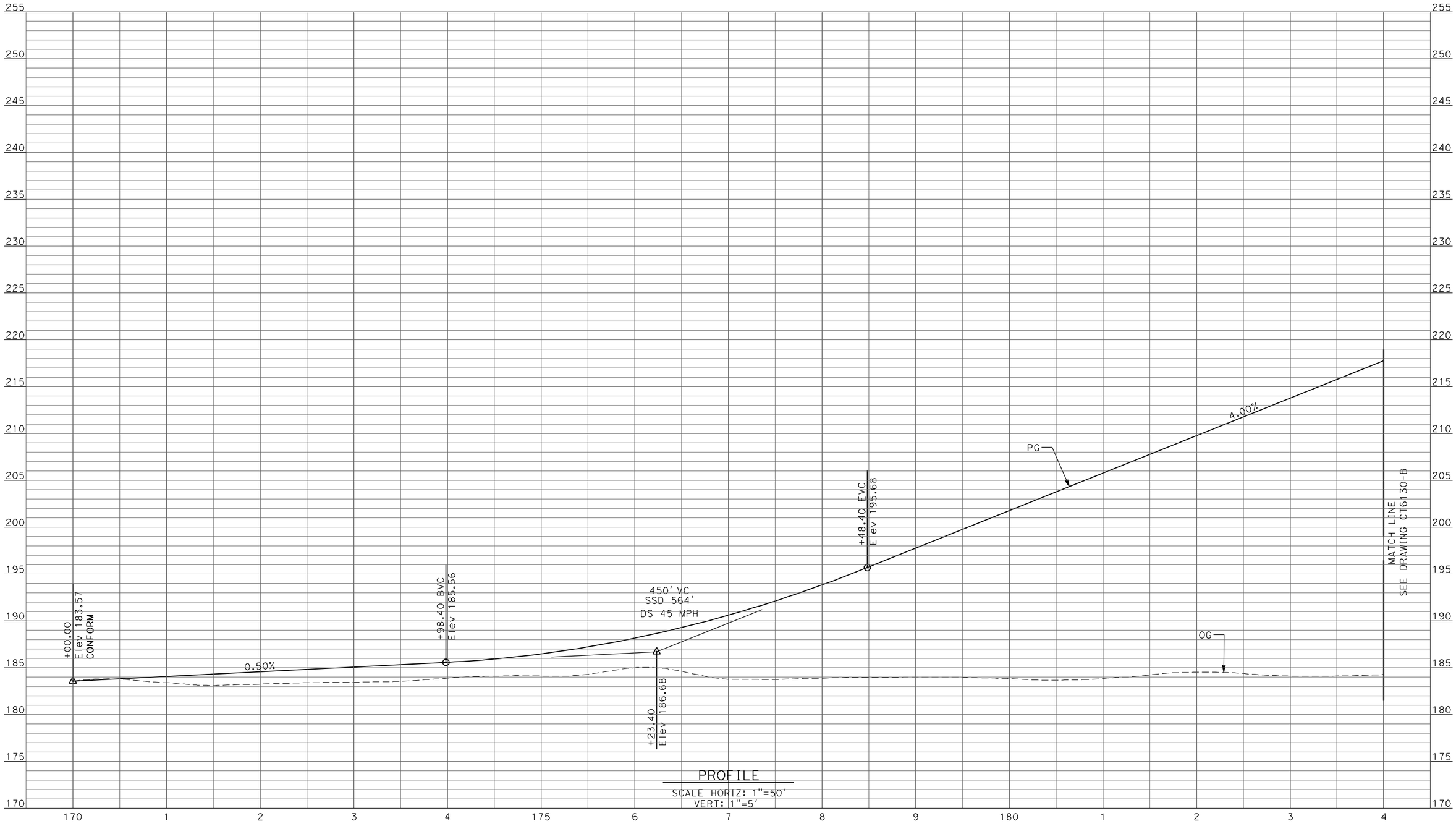
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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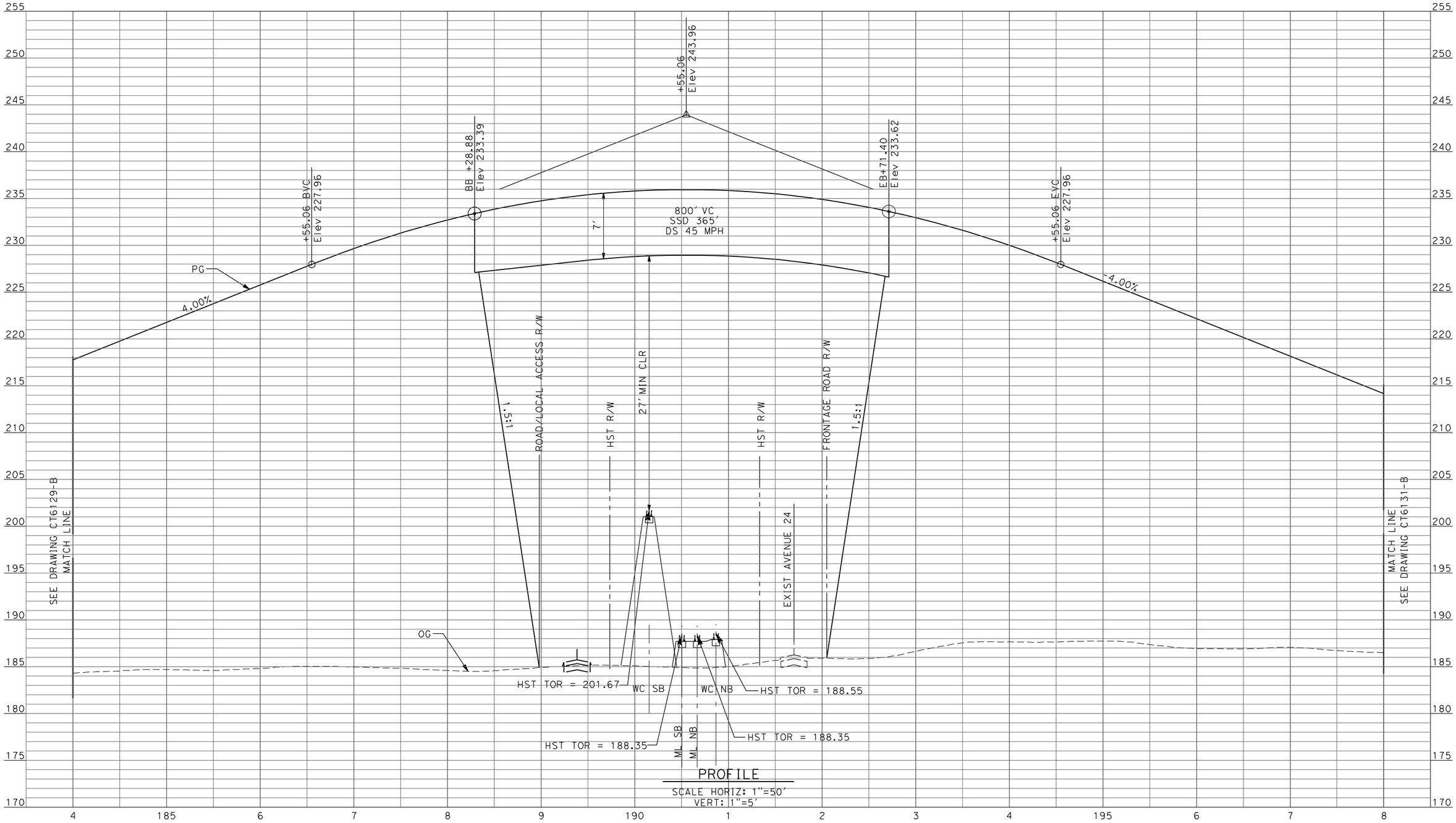
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALT 1
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6129-B
SCALE AS SHOWN
SHEET NO. ### OF ###



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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2020 L Street, Suite 300
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALT 1
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6130-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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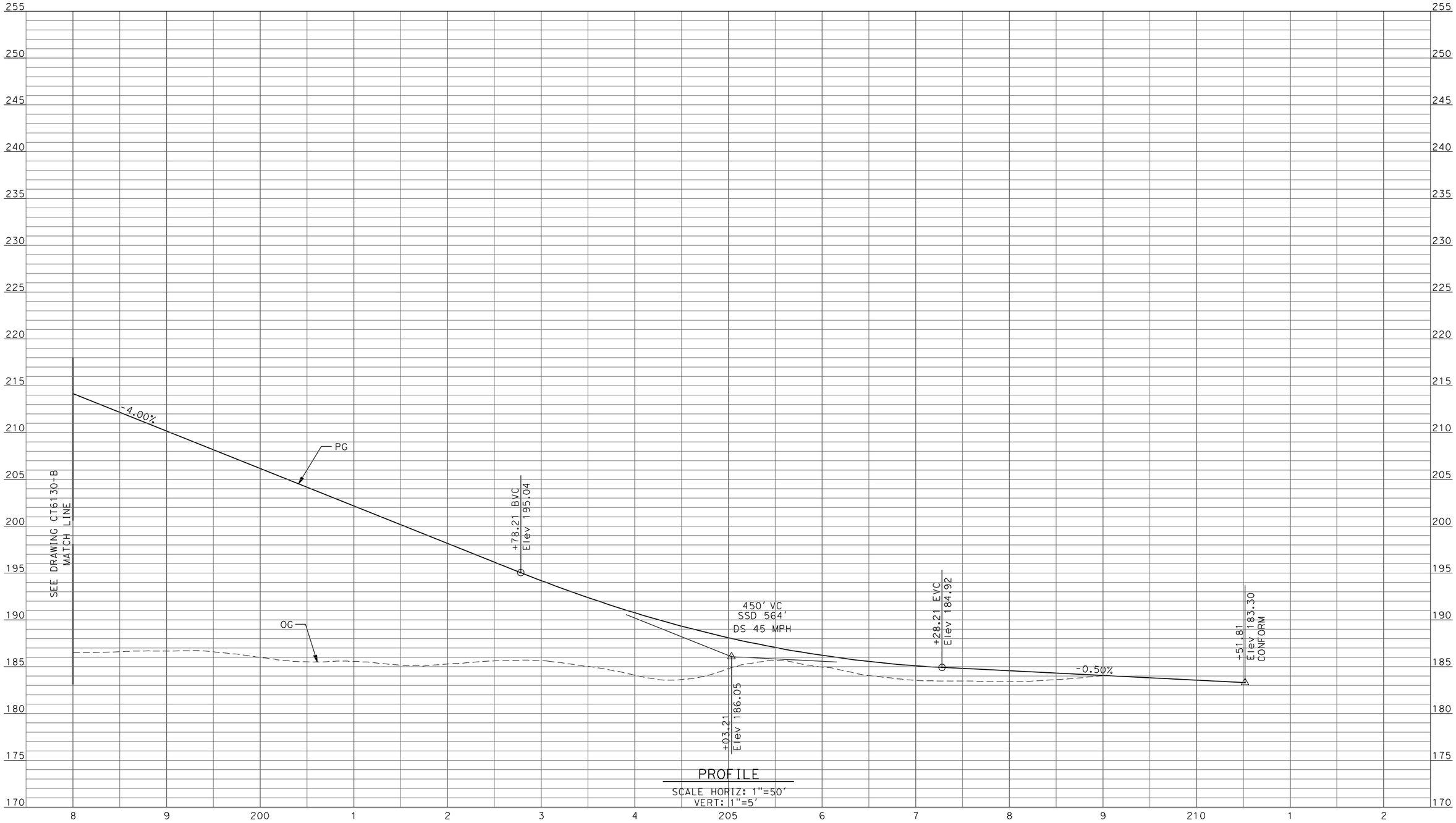

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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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

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALT 1
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6131-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:38:12 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Profile\CT6131-B.dgn
ReyesCl

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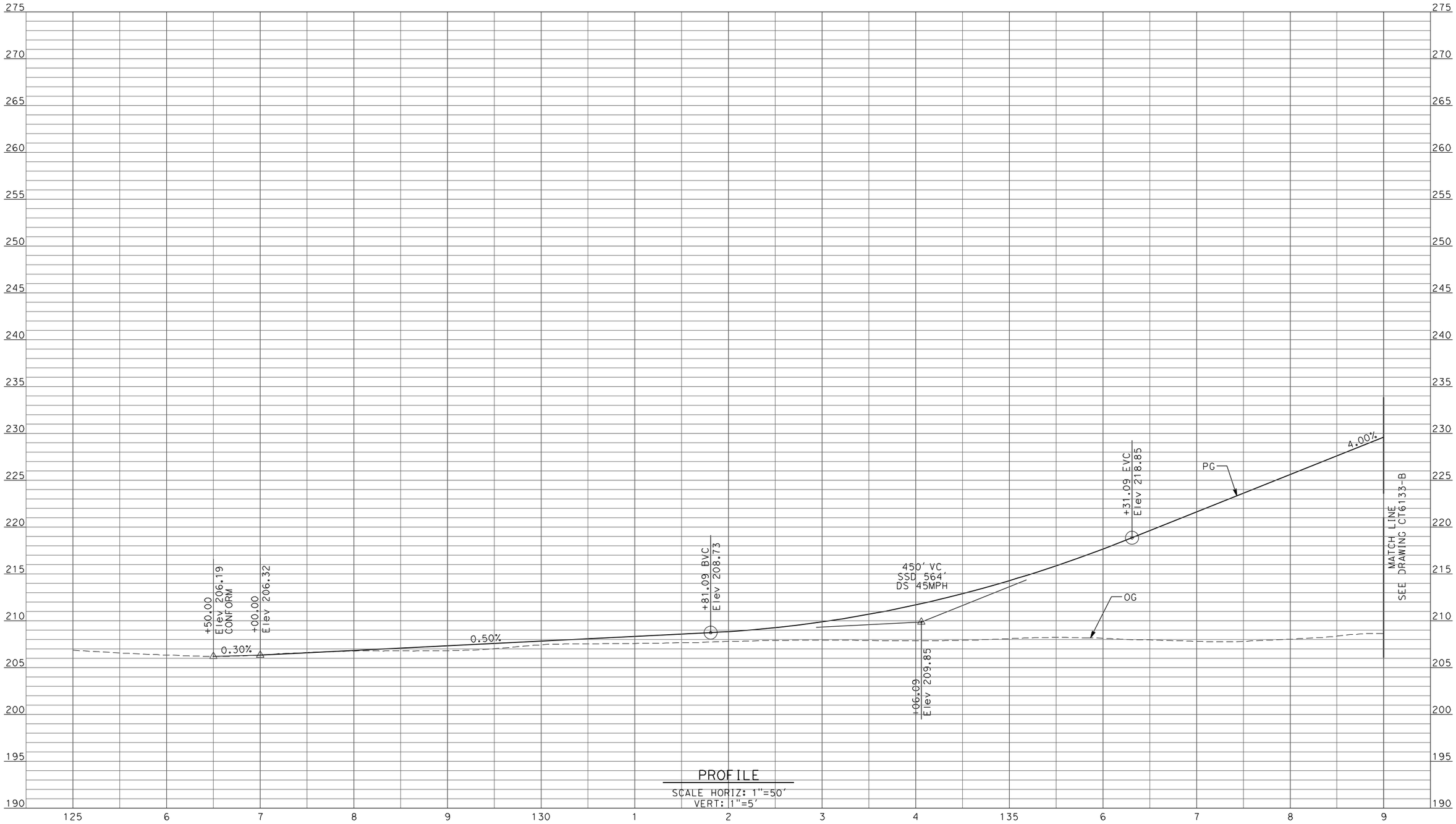

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6132-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1

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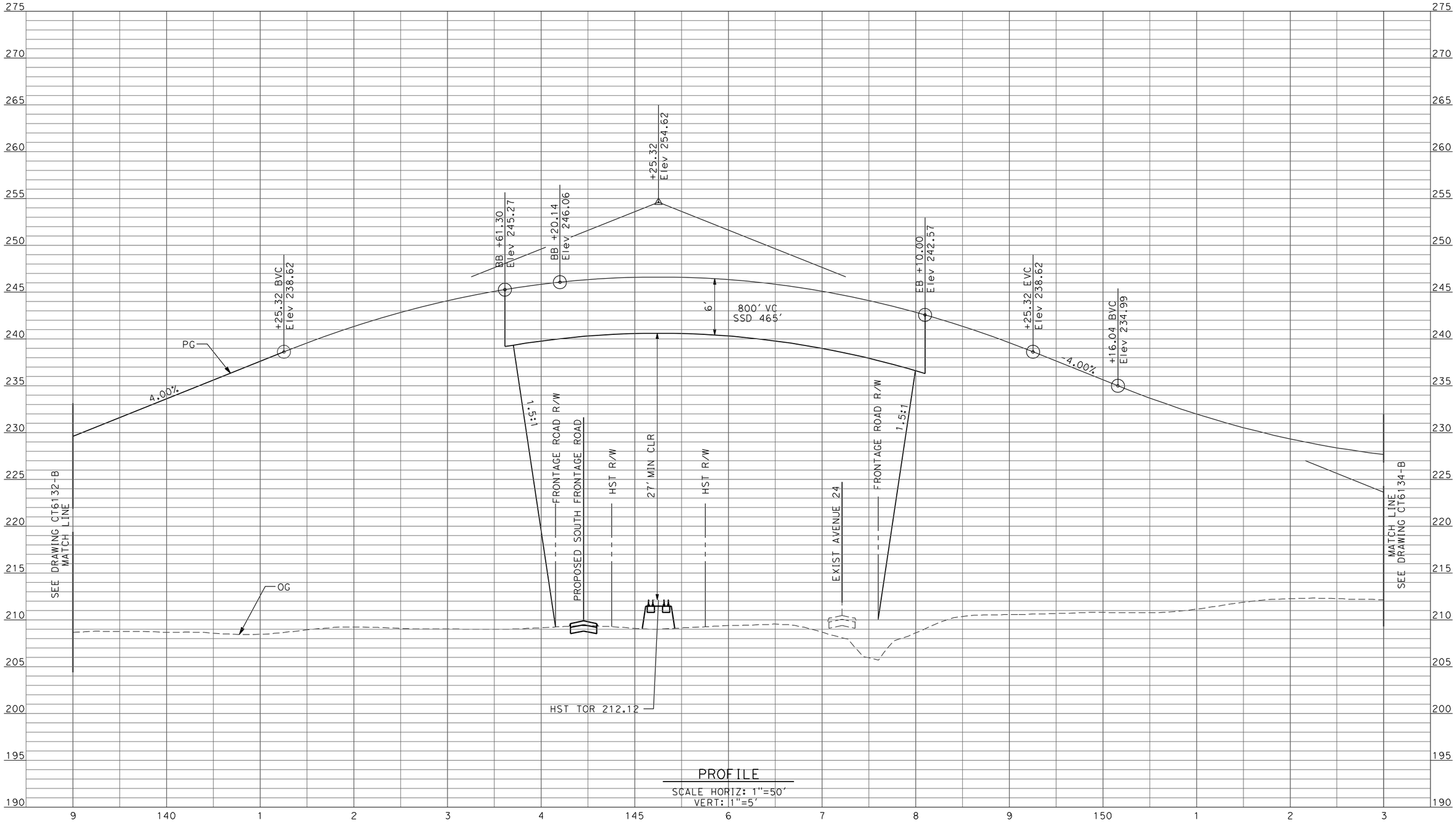

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
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DATE 06/30/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6133-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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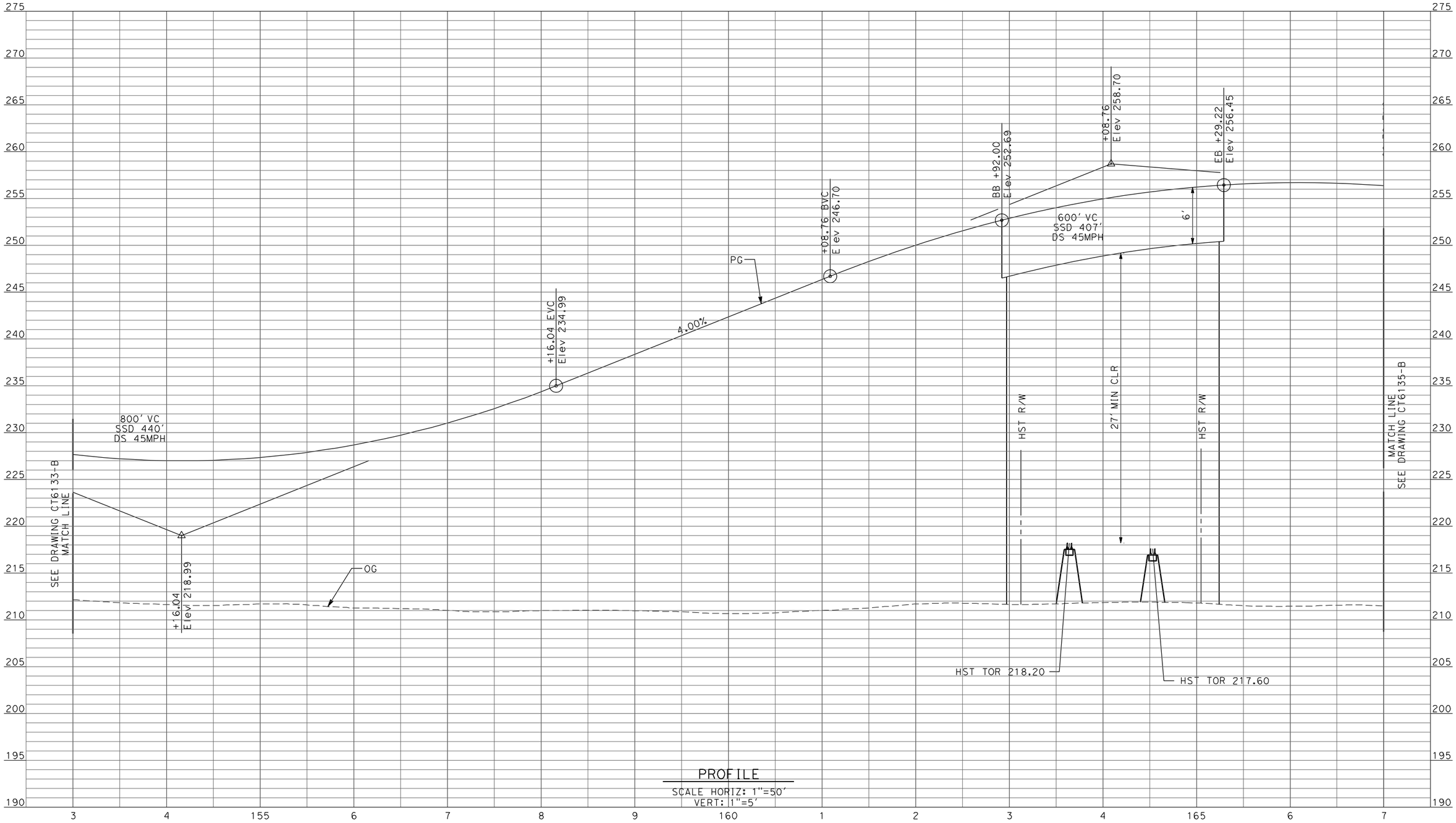

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
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IN CHARGE A. BOONE
DATE 06/30/2011

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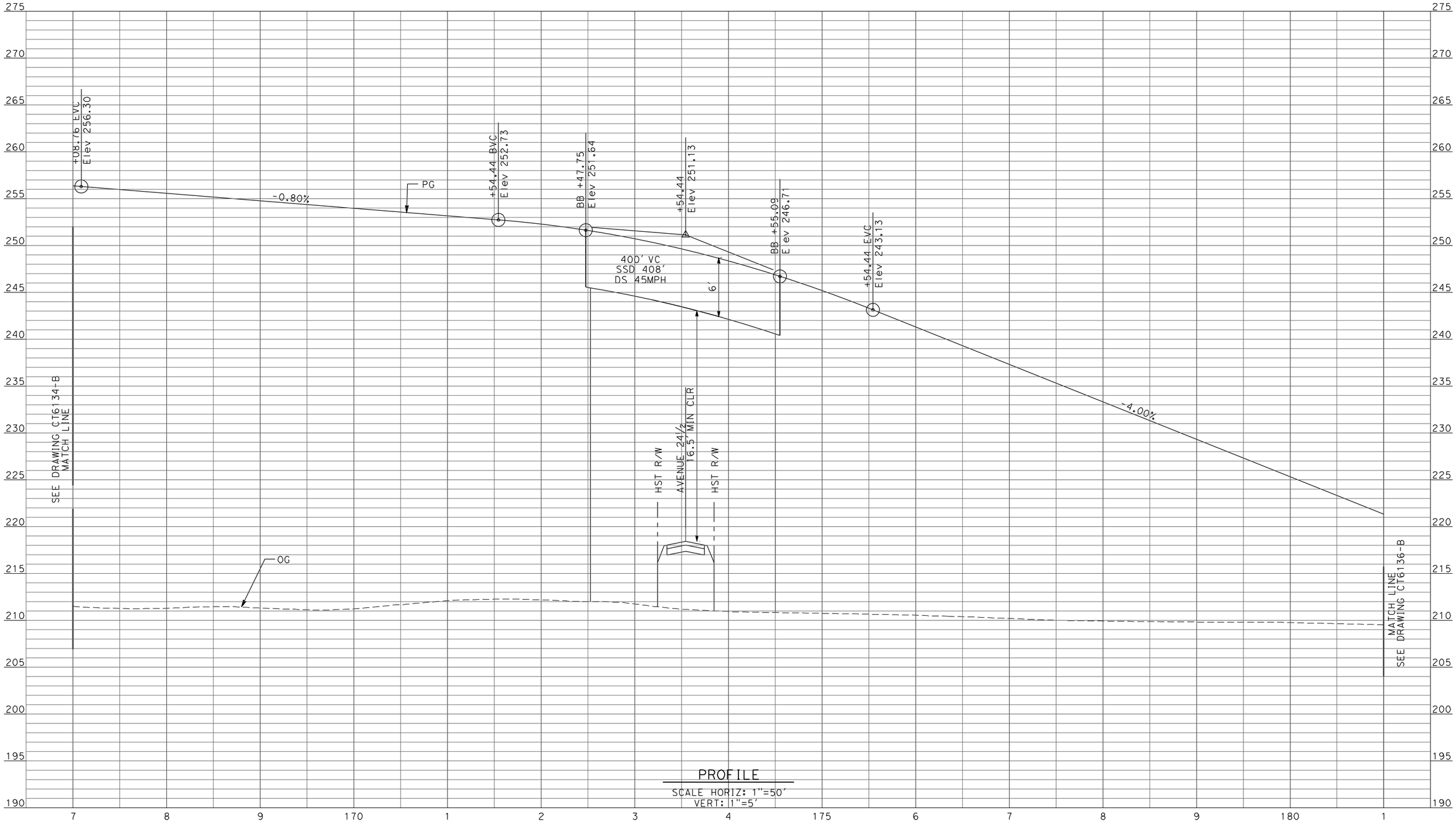
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6134-B
SCALE AS SHOWN
SHEET NO. ### OF ###



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

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6135-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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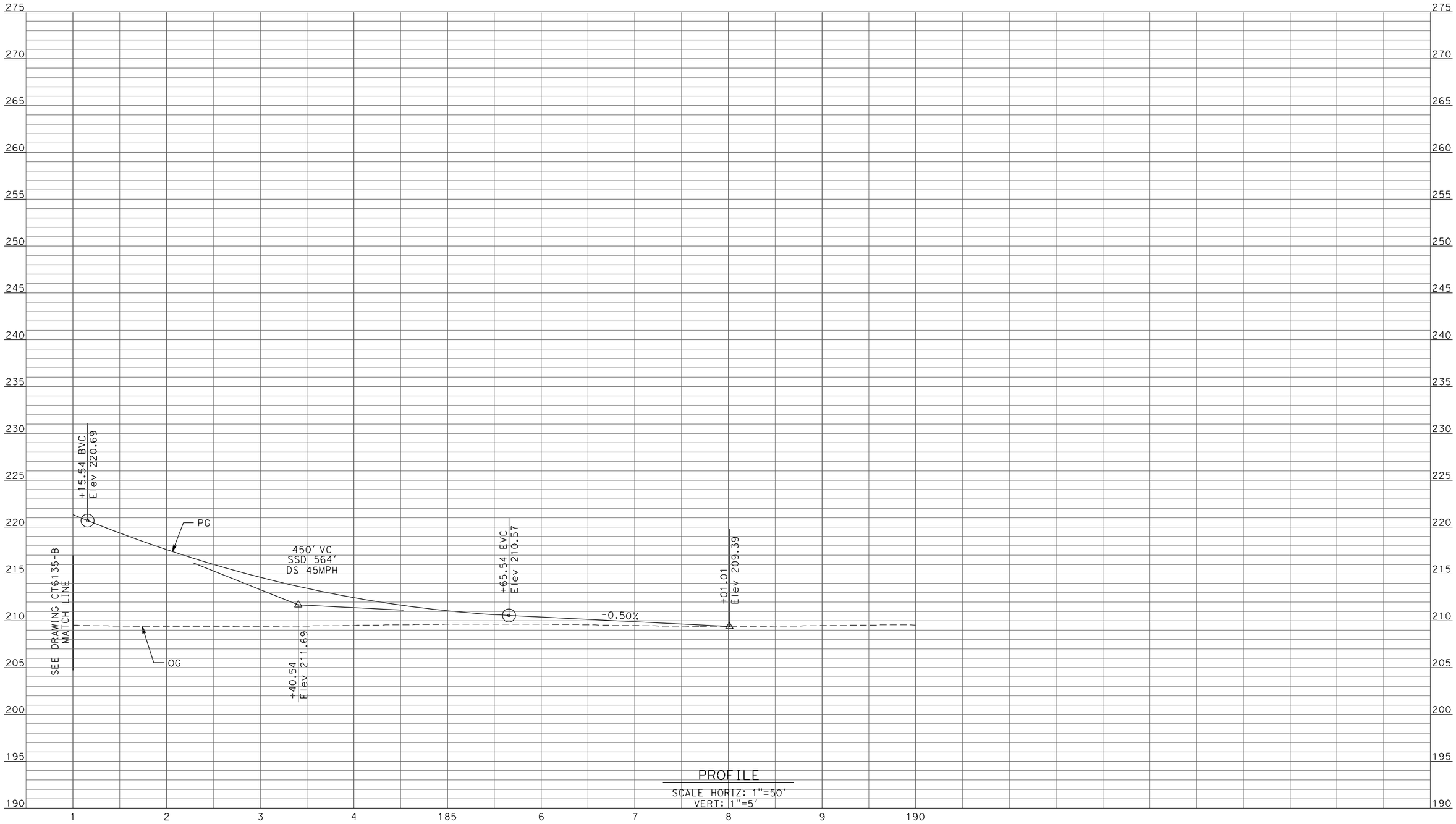
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/MERCED DO - (WC)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6136-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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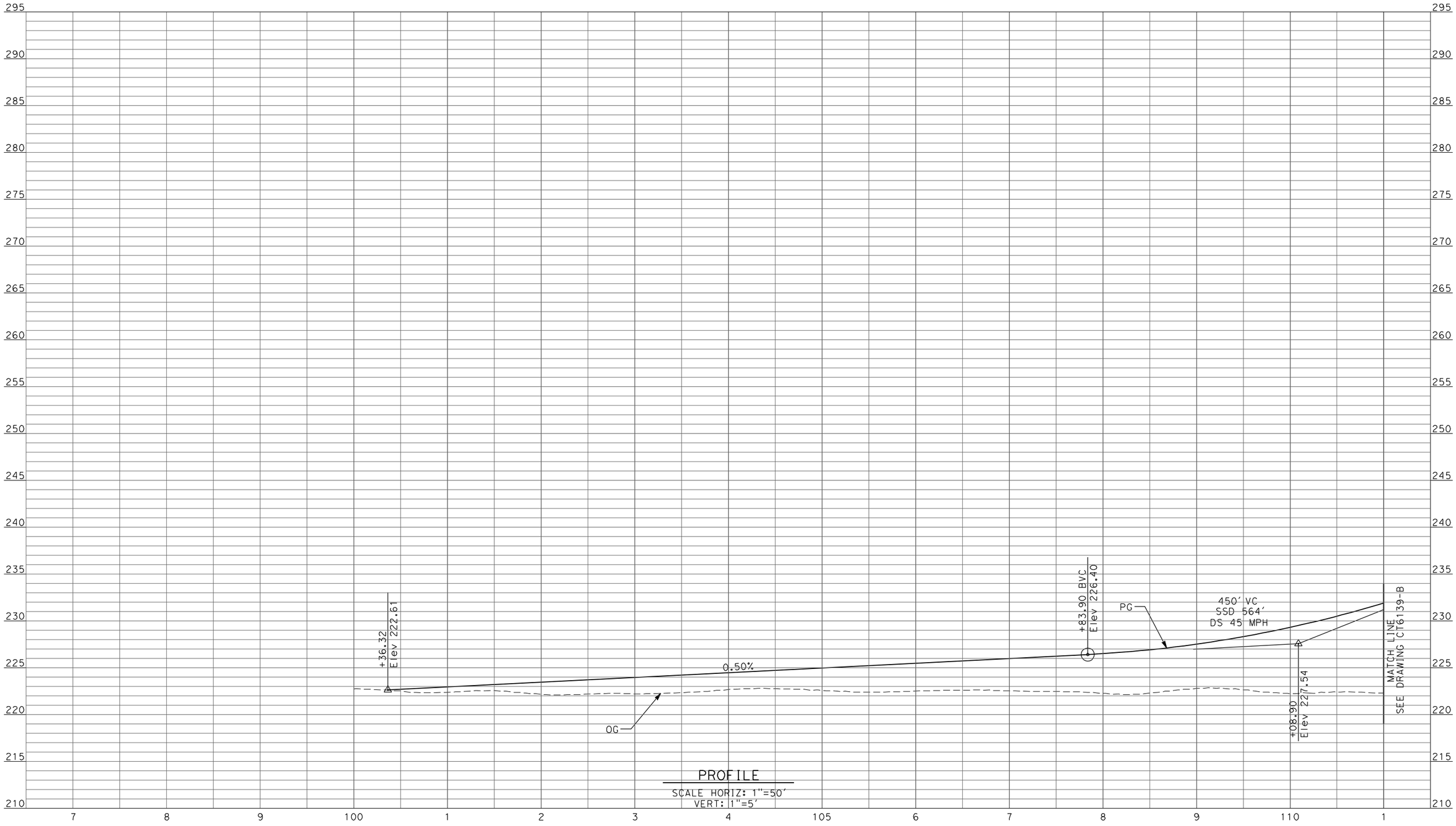
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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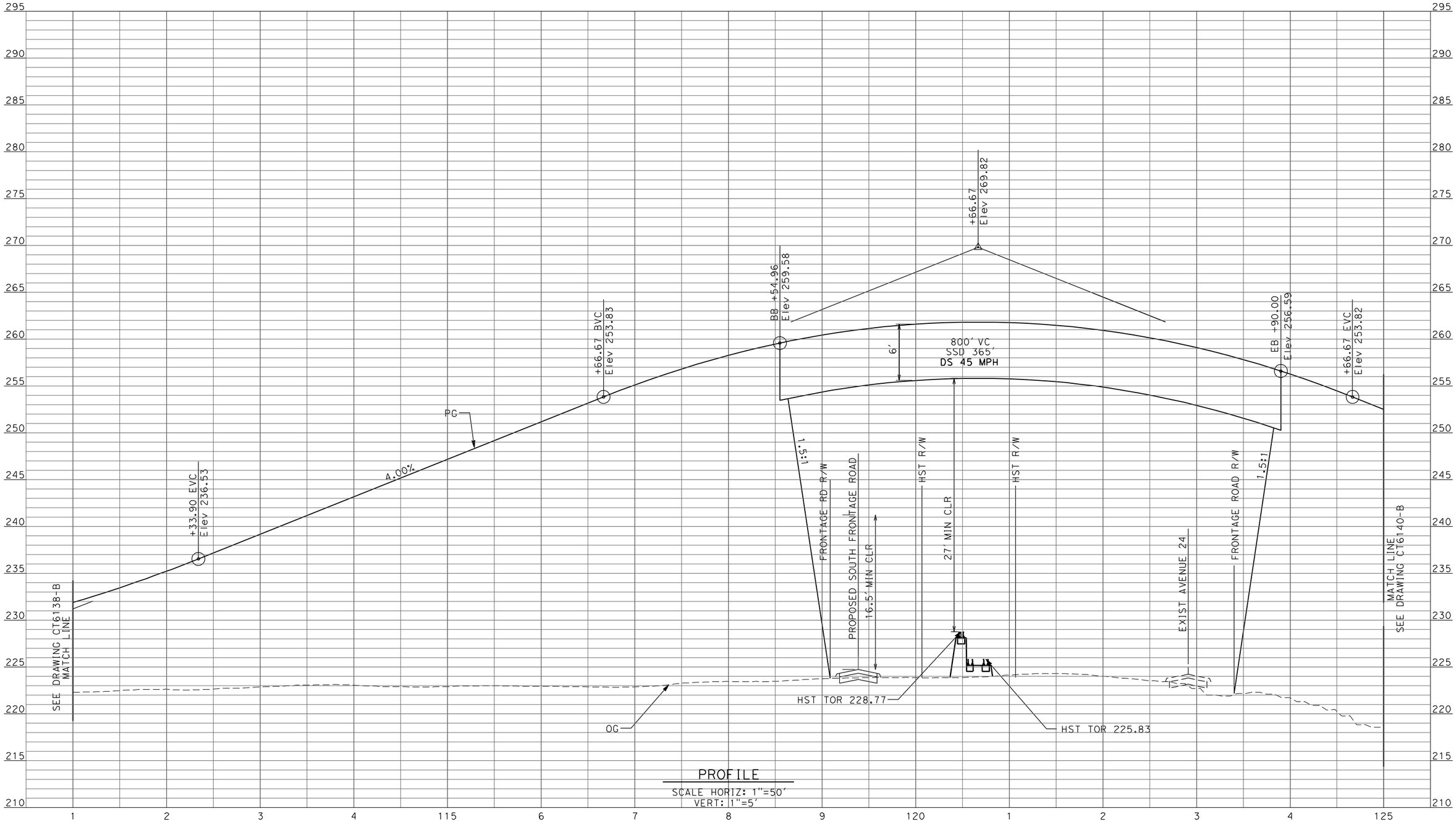
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6138-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6139-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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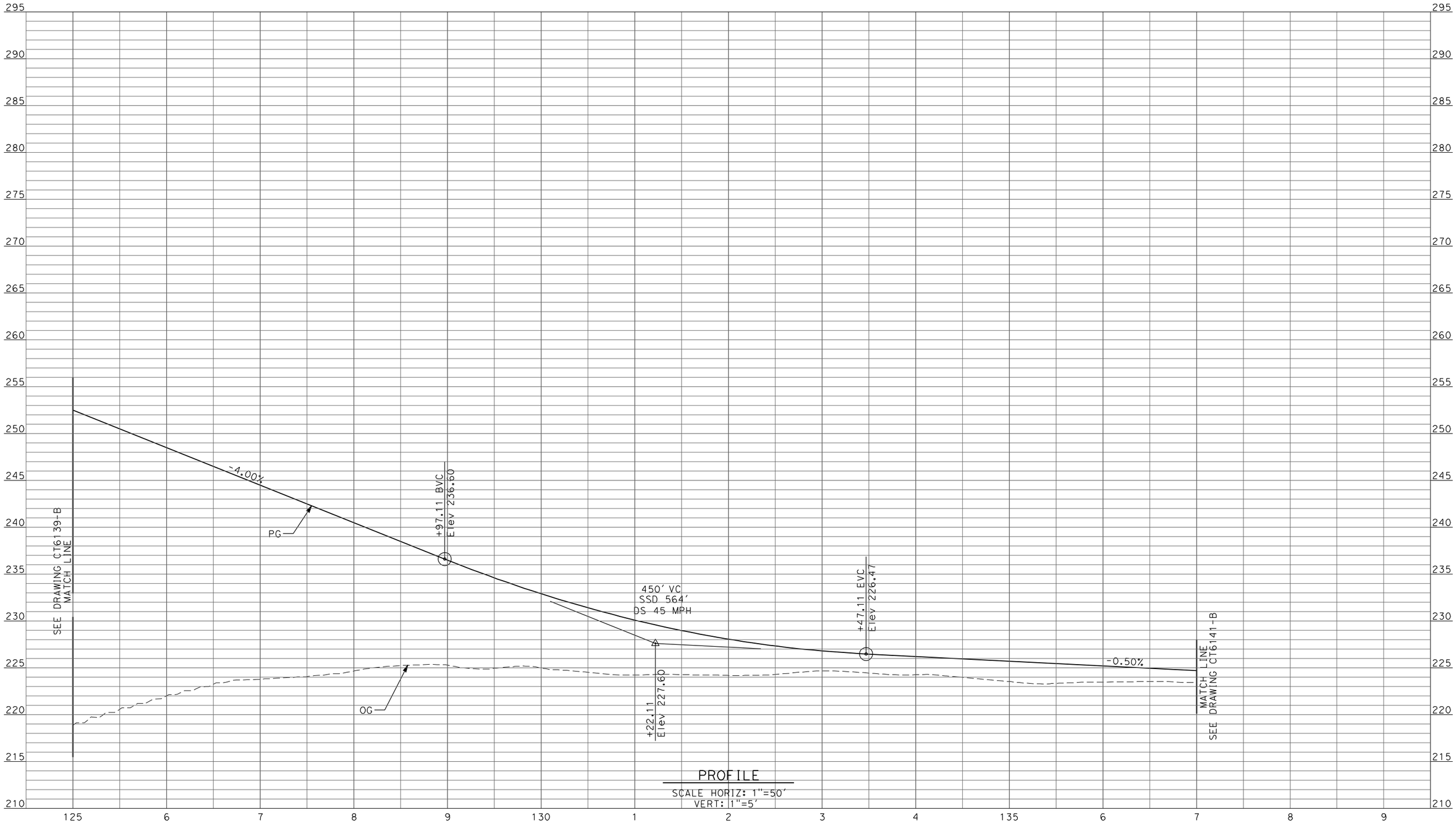
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
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IN CHARGE: A. BOONE
DATE: 04/29/2011

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MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6140-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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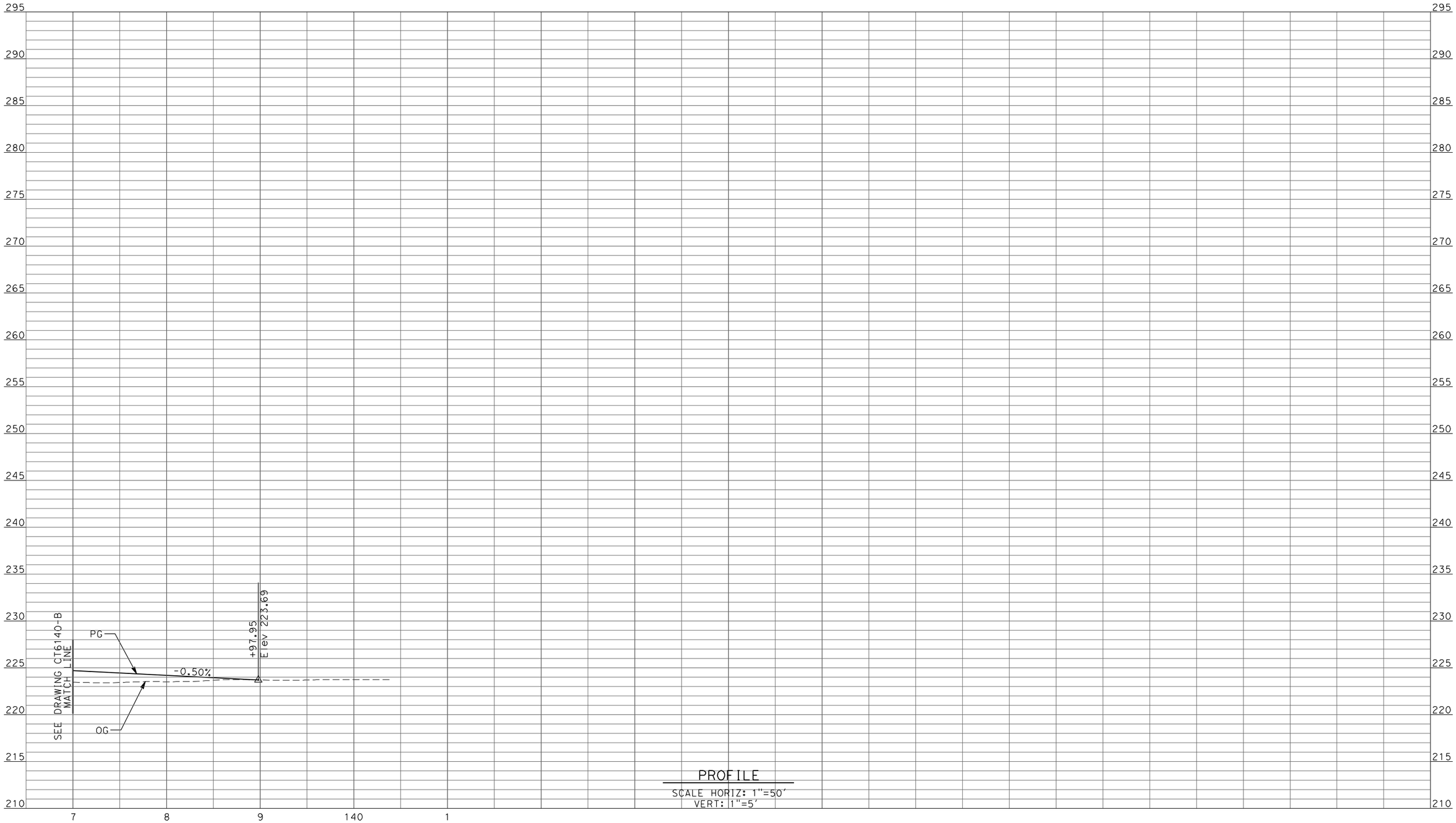

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6141-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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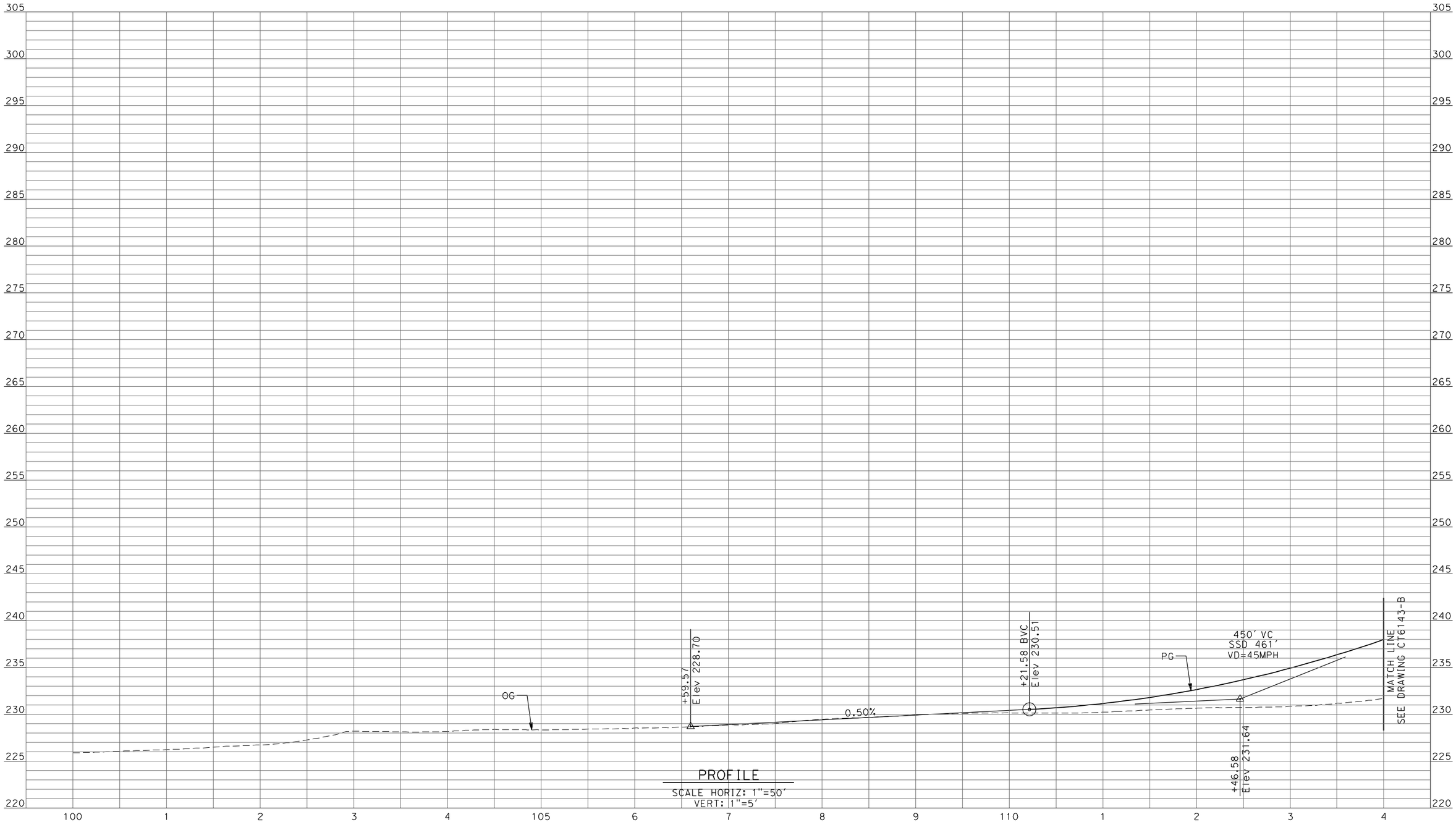

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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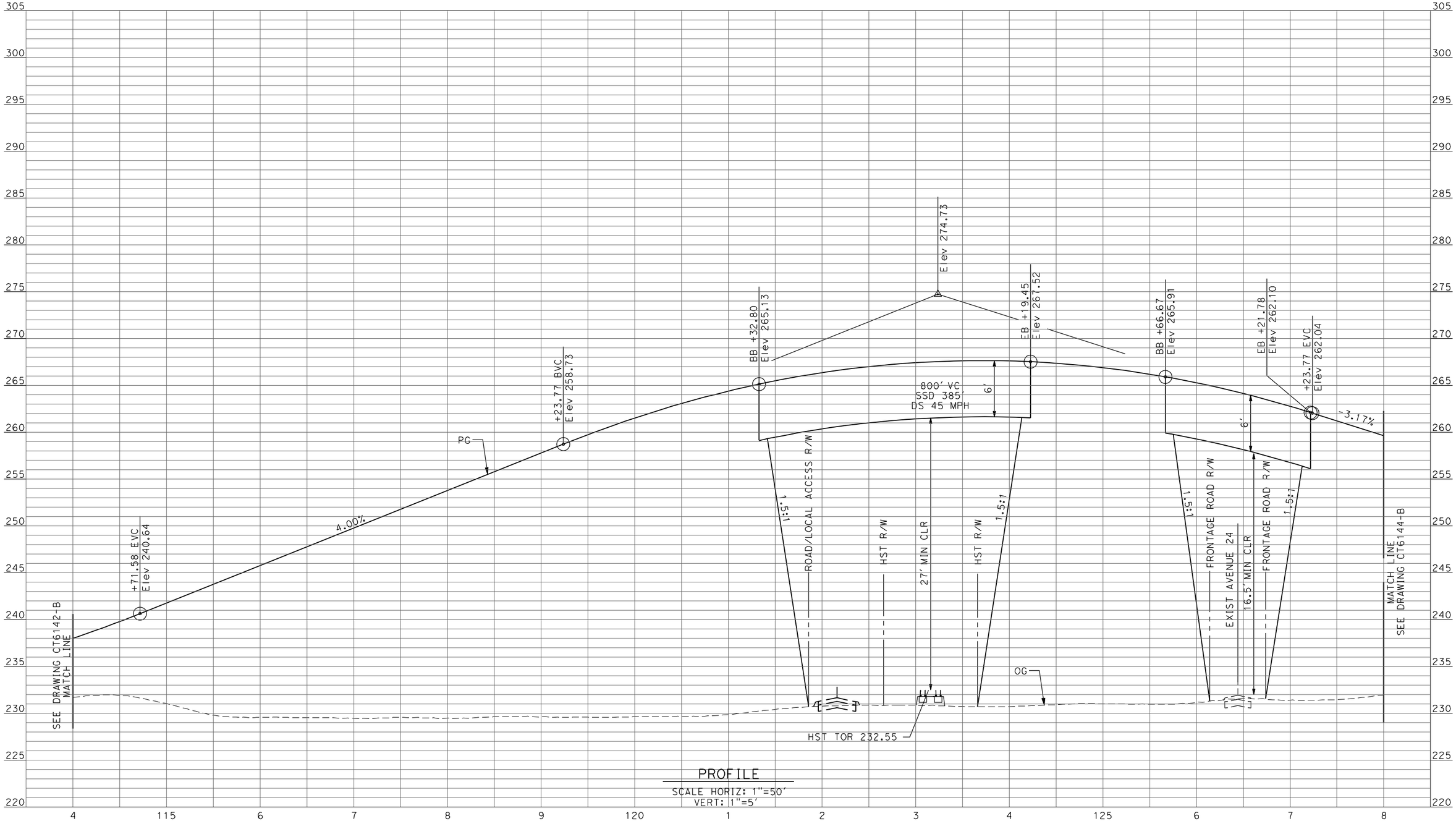
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6142-B
SCALE AS SHOWN
SHEET NO. ### OF ###



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6143-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesCl

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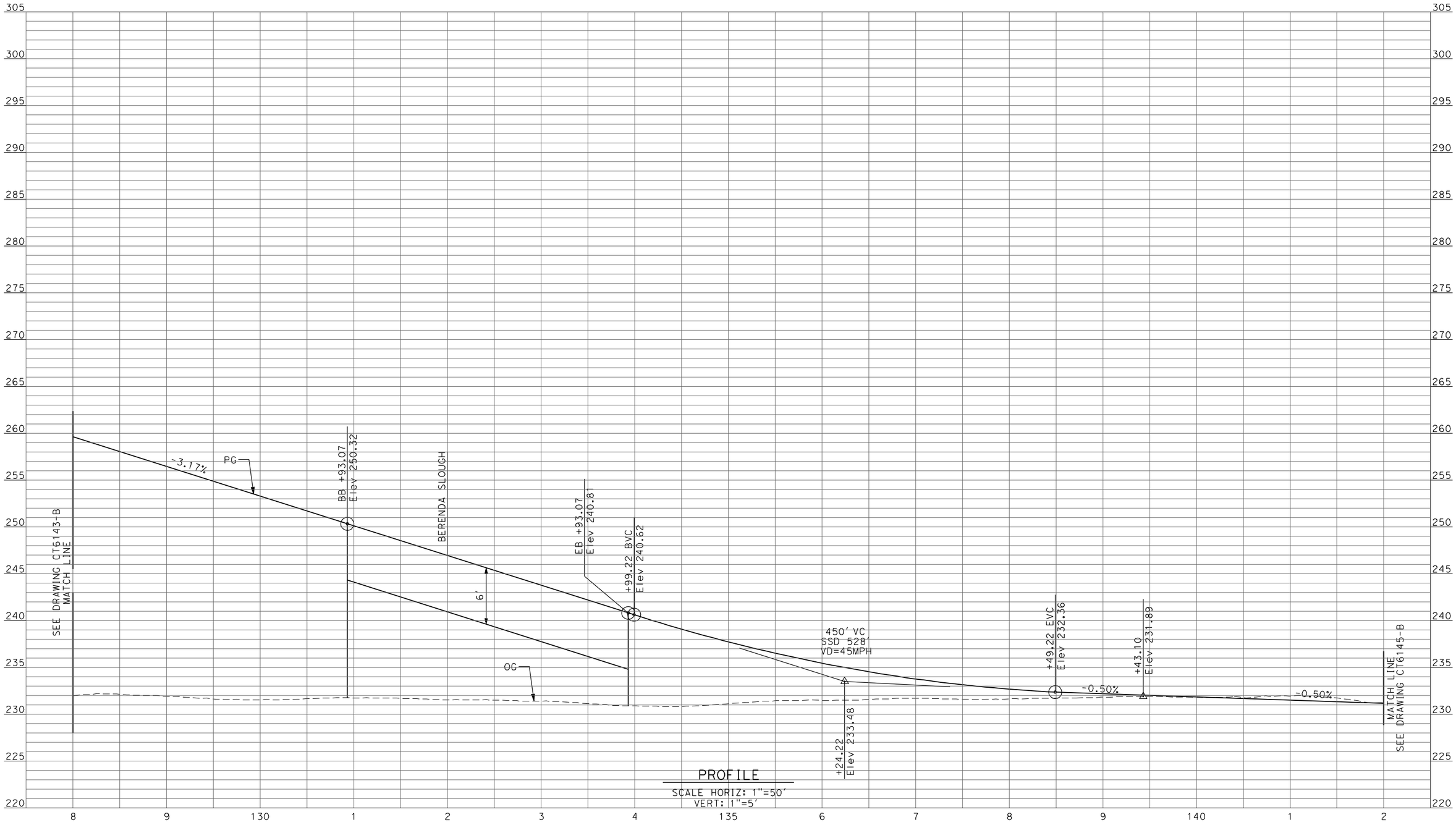

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
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DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6144-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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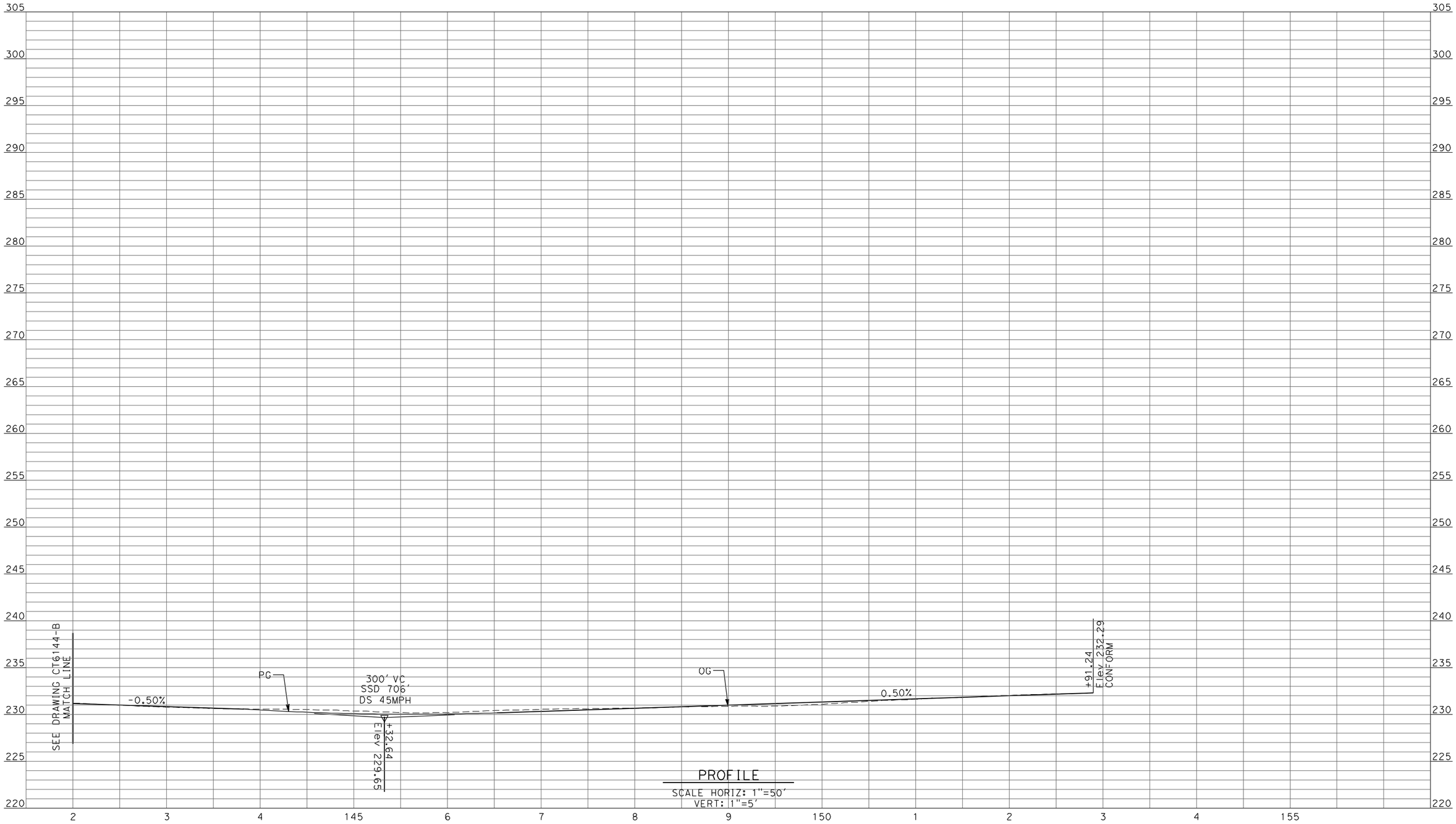

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6145-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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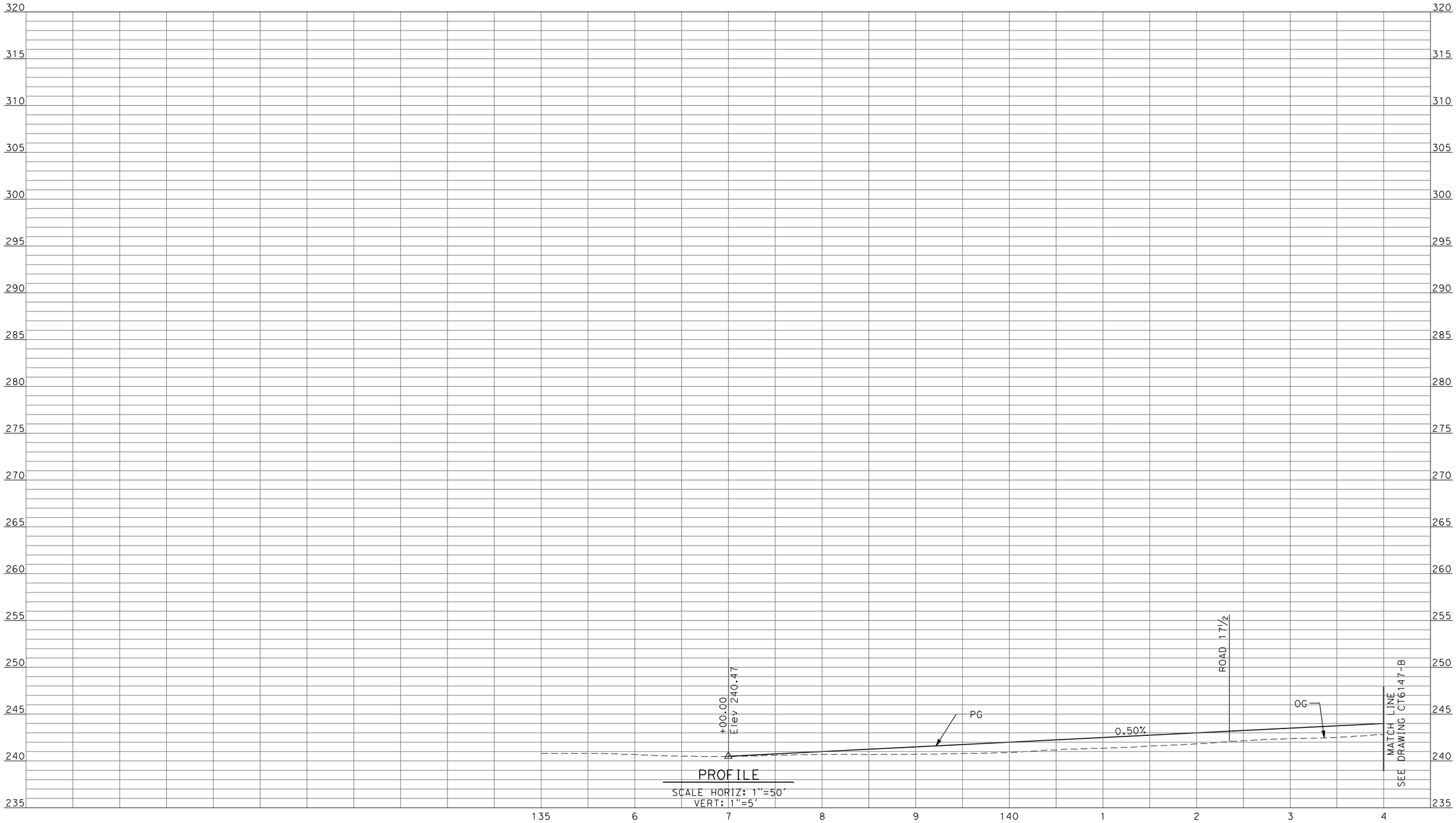
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6146-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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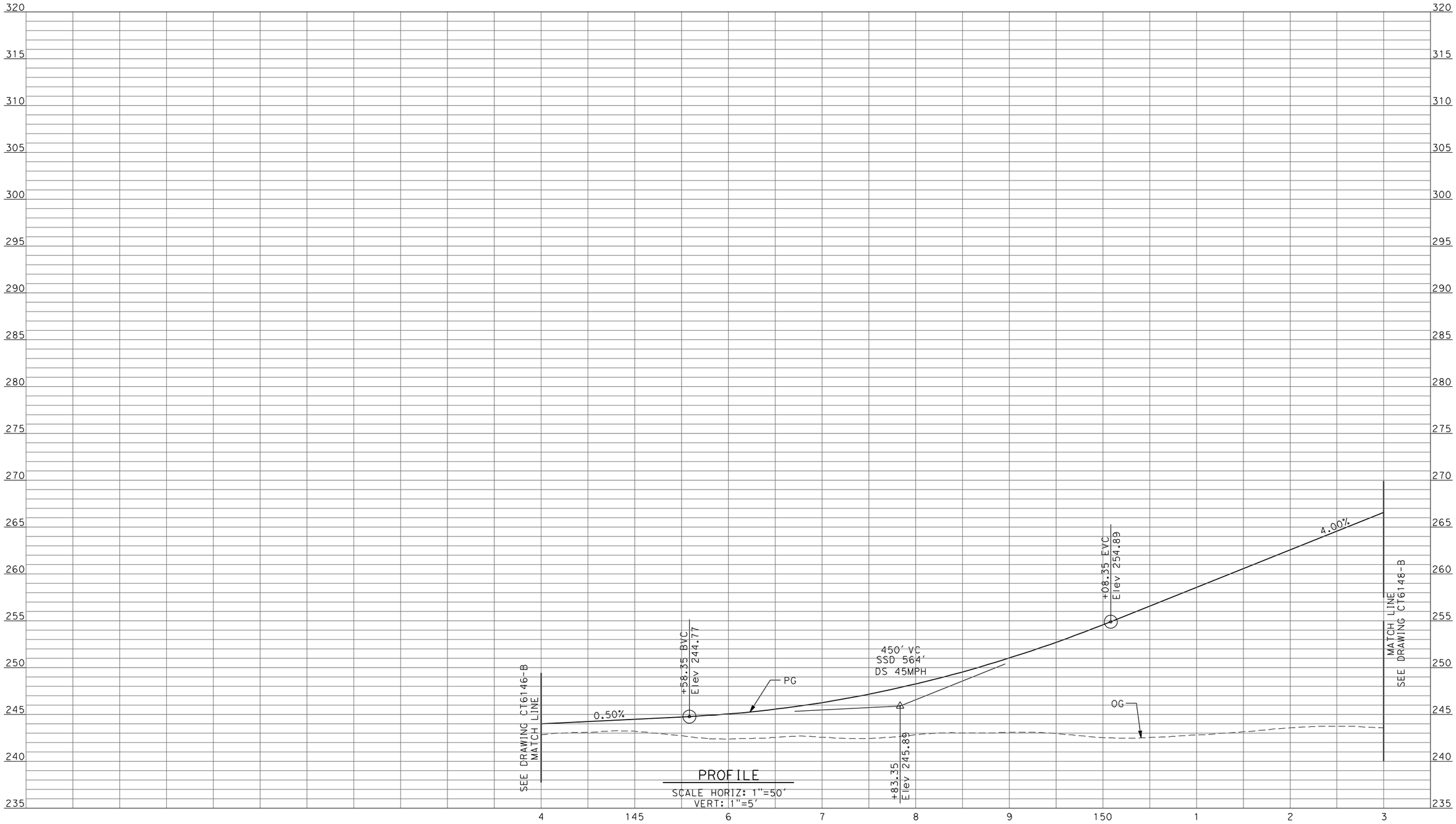

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6147-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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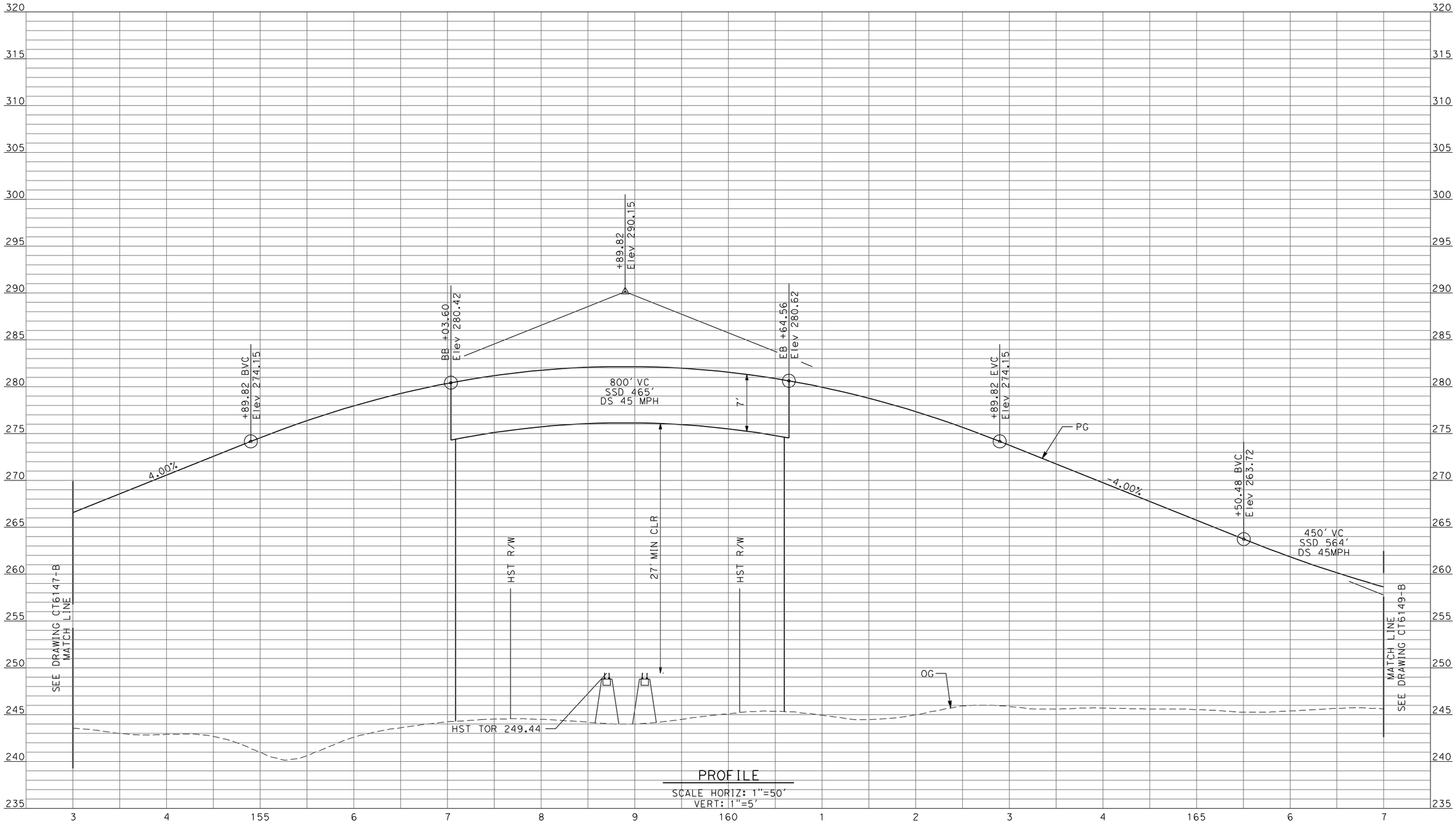
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6148-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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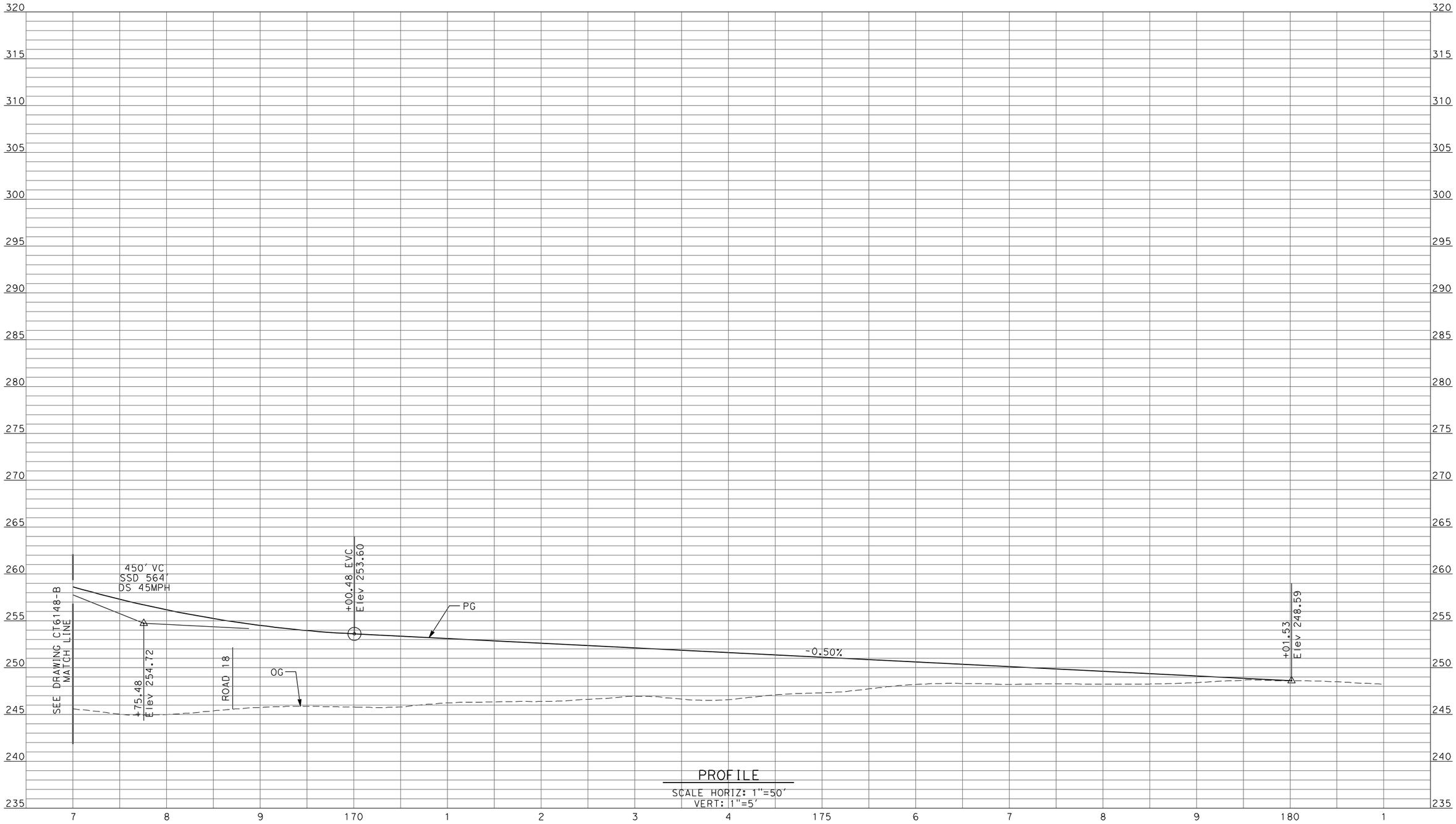

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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AECOM
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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

UPRR/SR99 MAINLINE DO - (WC)
GRADE SEPARATION - AVENUE 23 1/2
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT6149-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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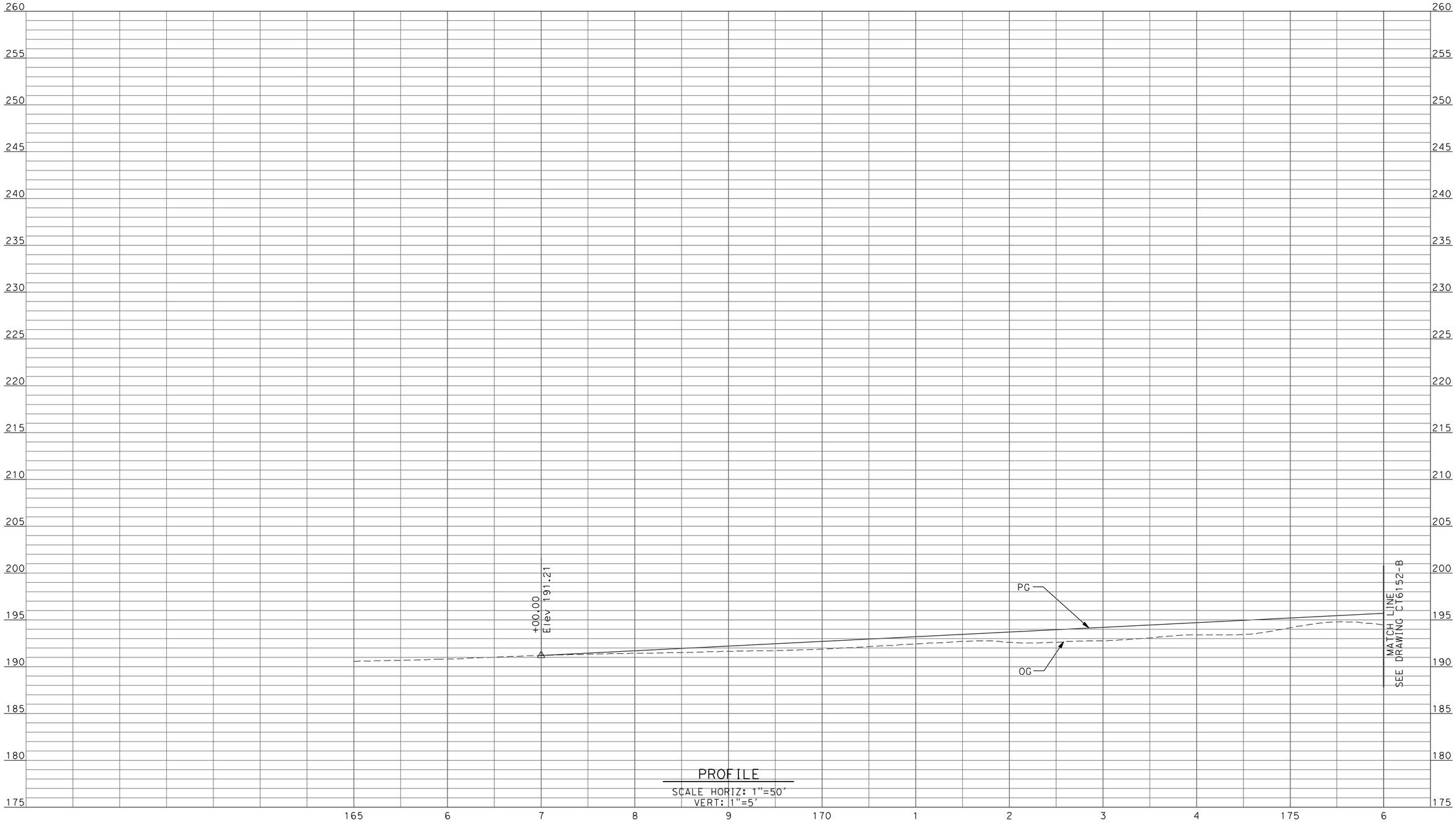

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 1 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6151-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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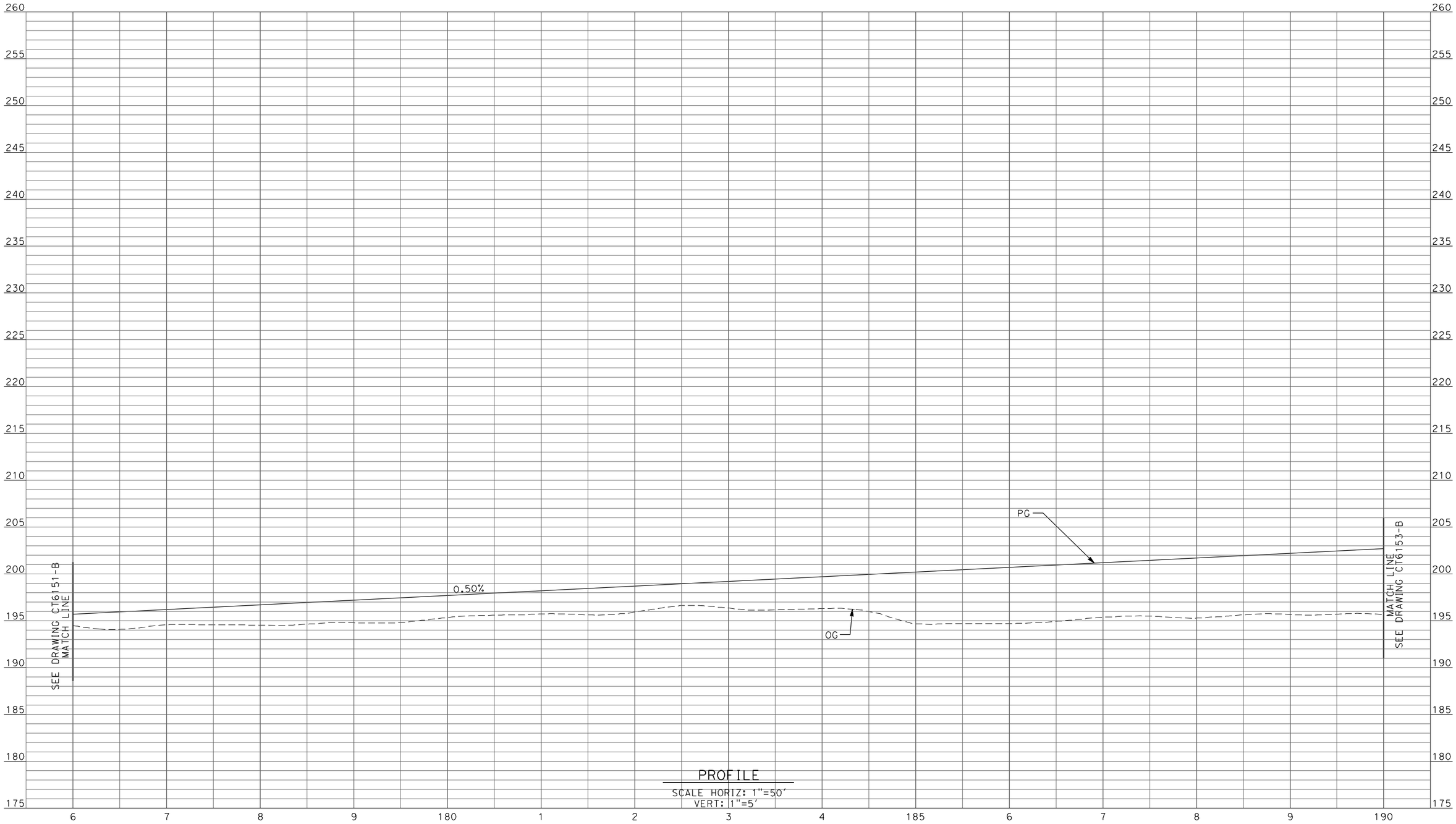

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 2 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6152-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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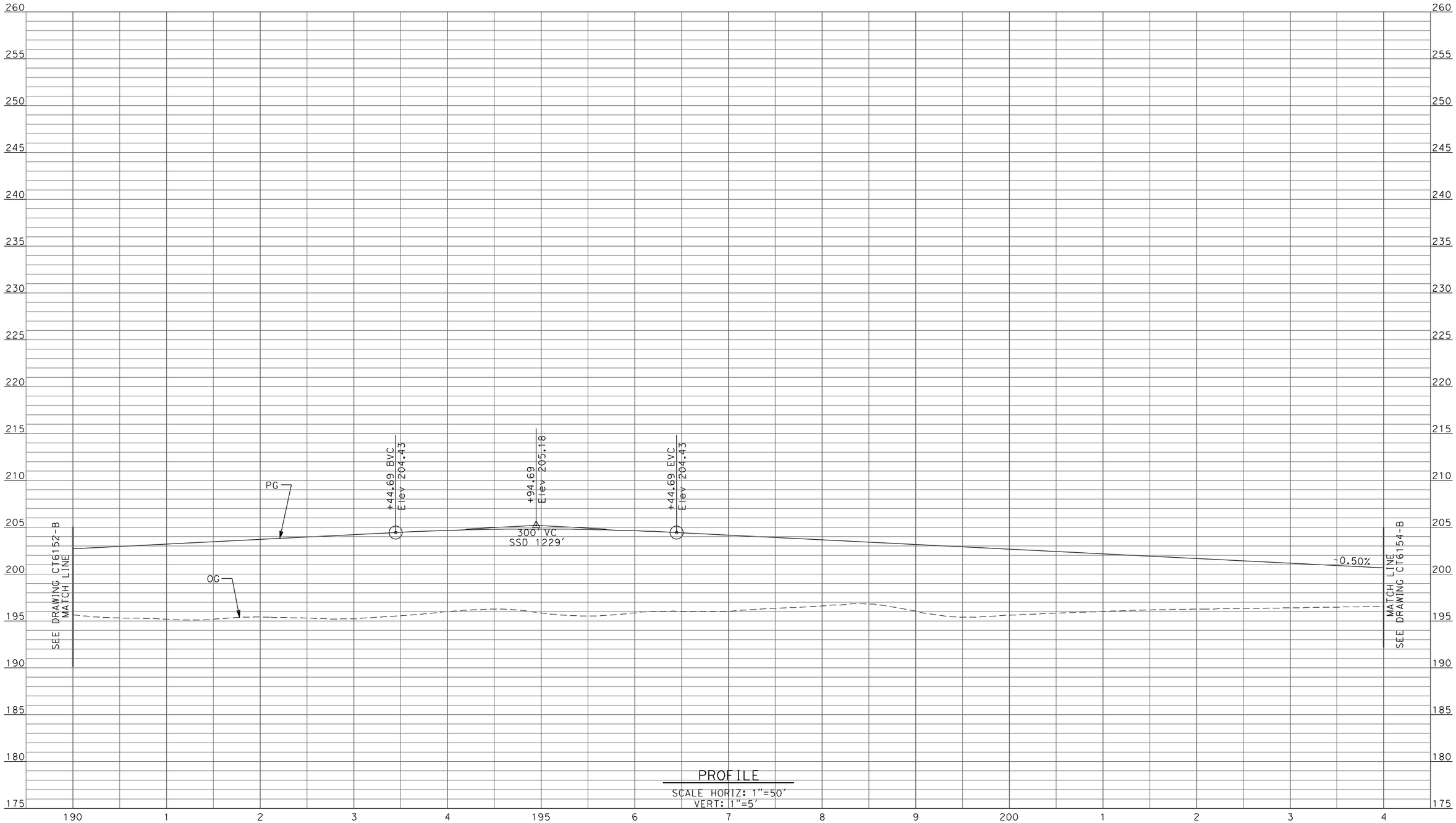

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 3 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6153-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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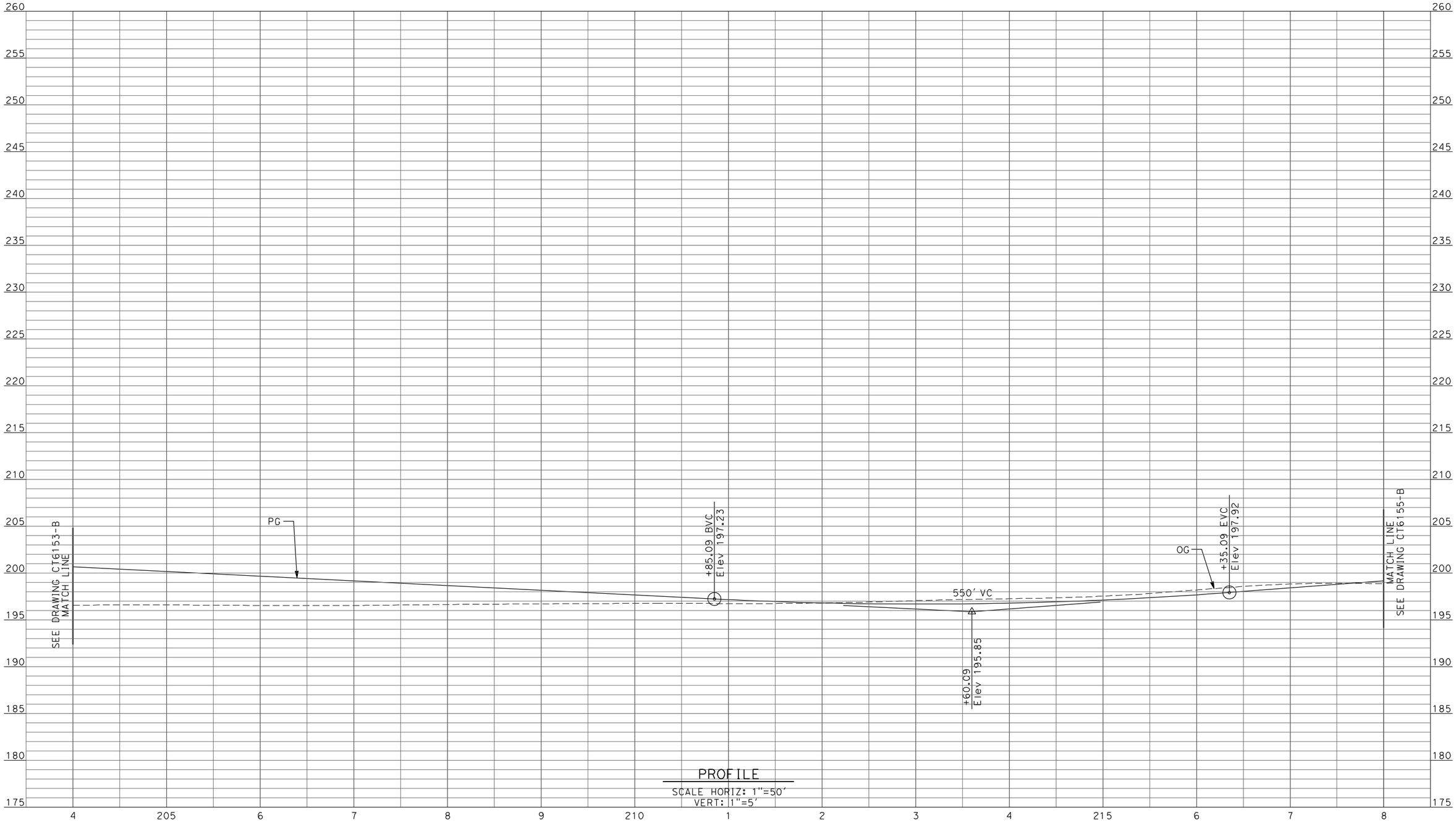

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 4 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6154-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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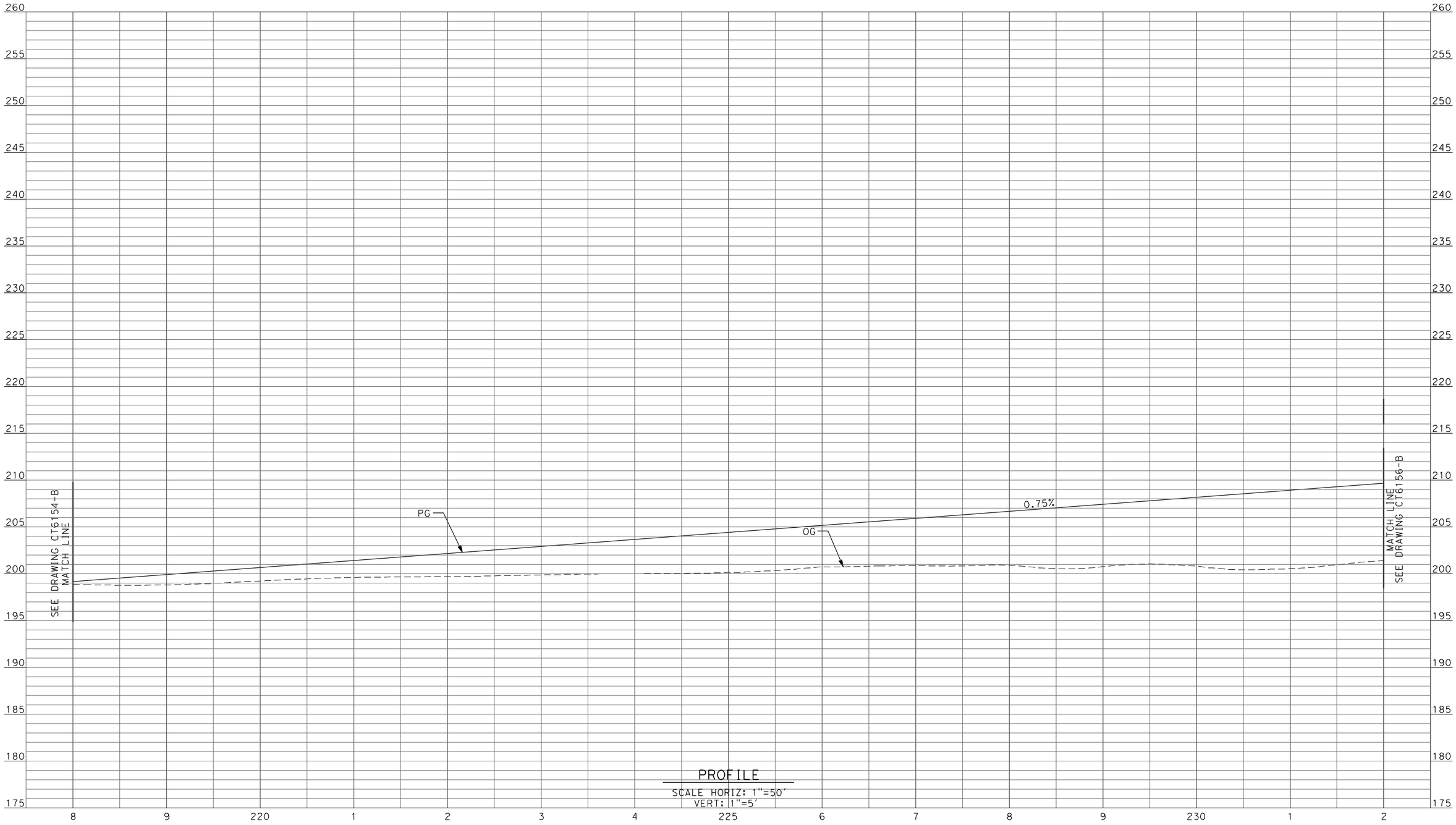

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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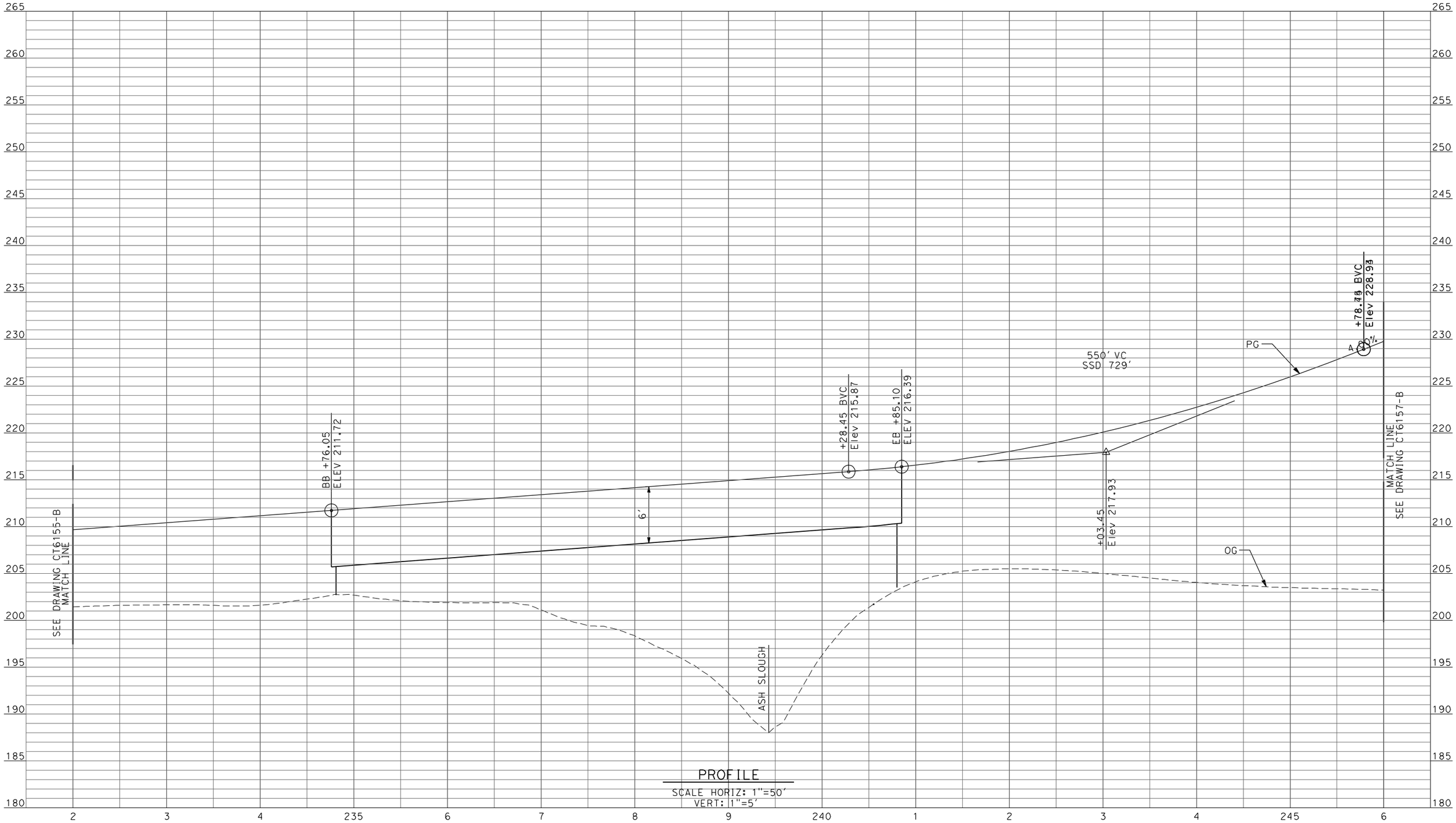
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 5 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6155-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 6 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6156-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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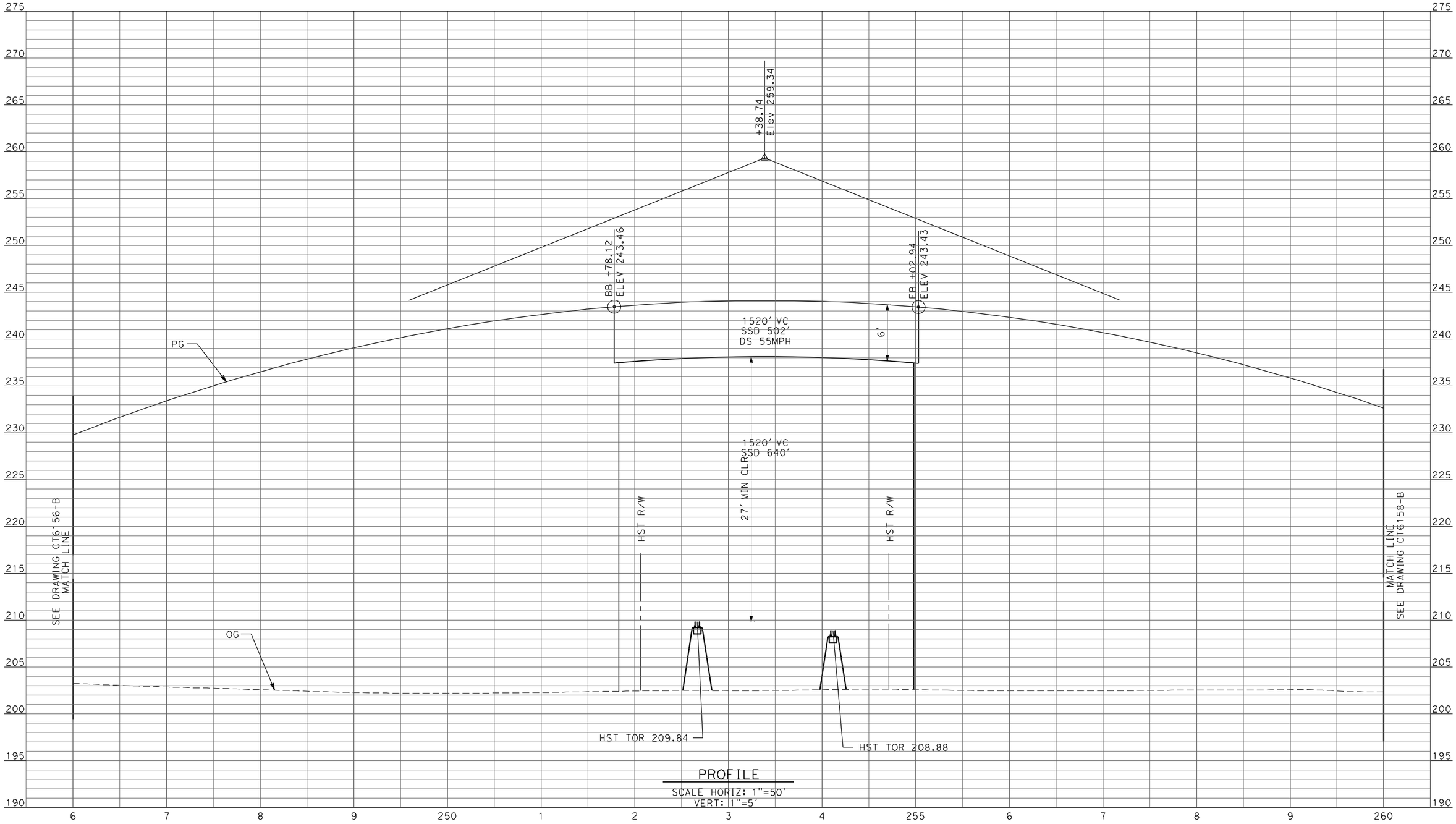

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 7 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6157-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\profile\CT6158-B.dgn
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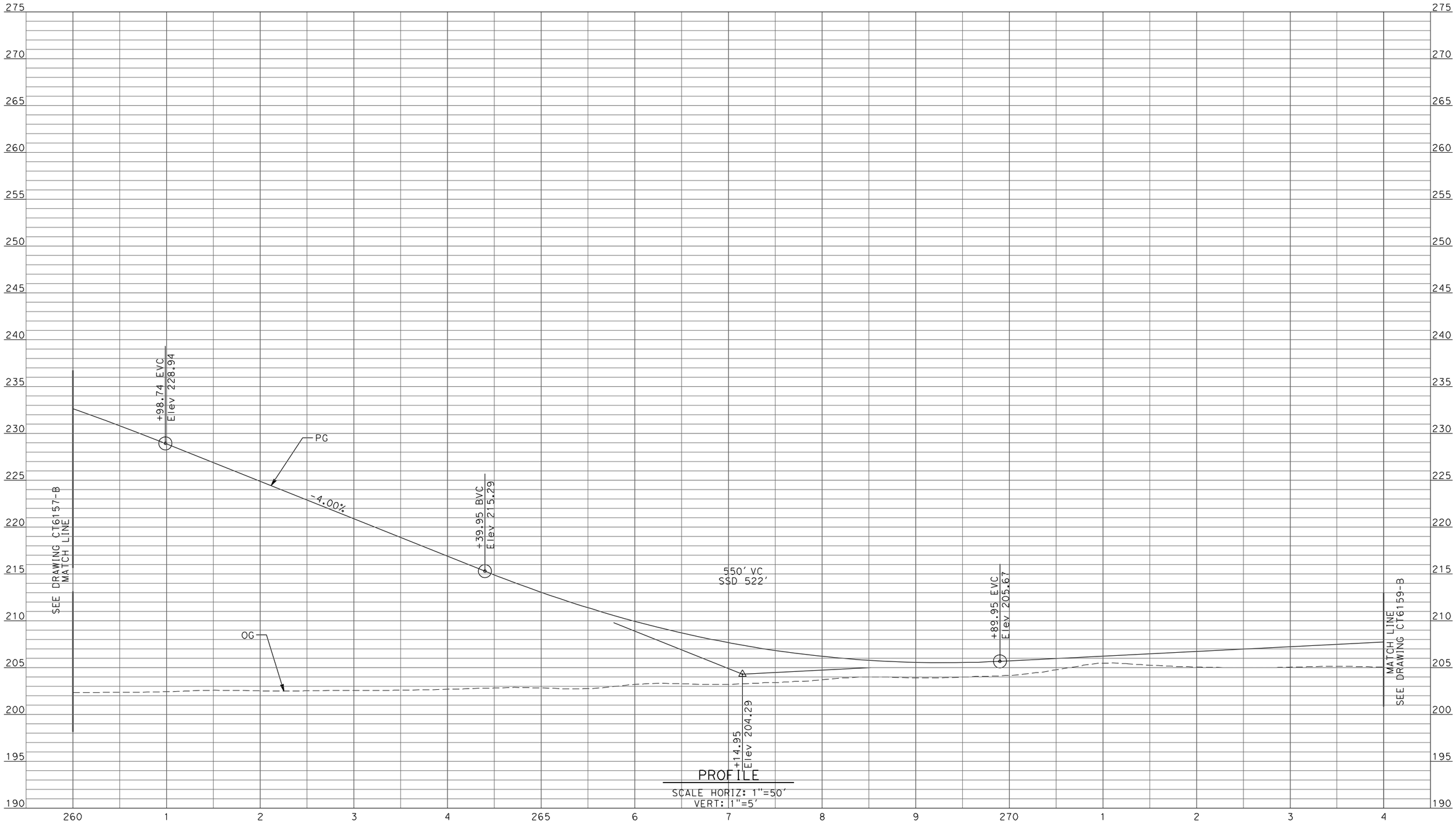

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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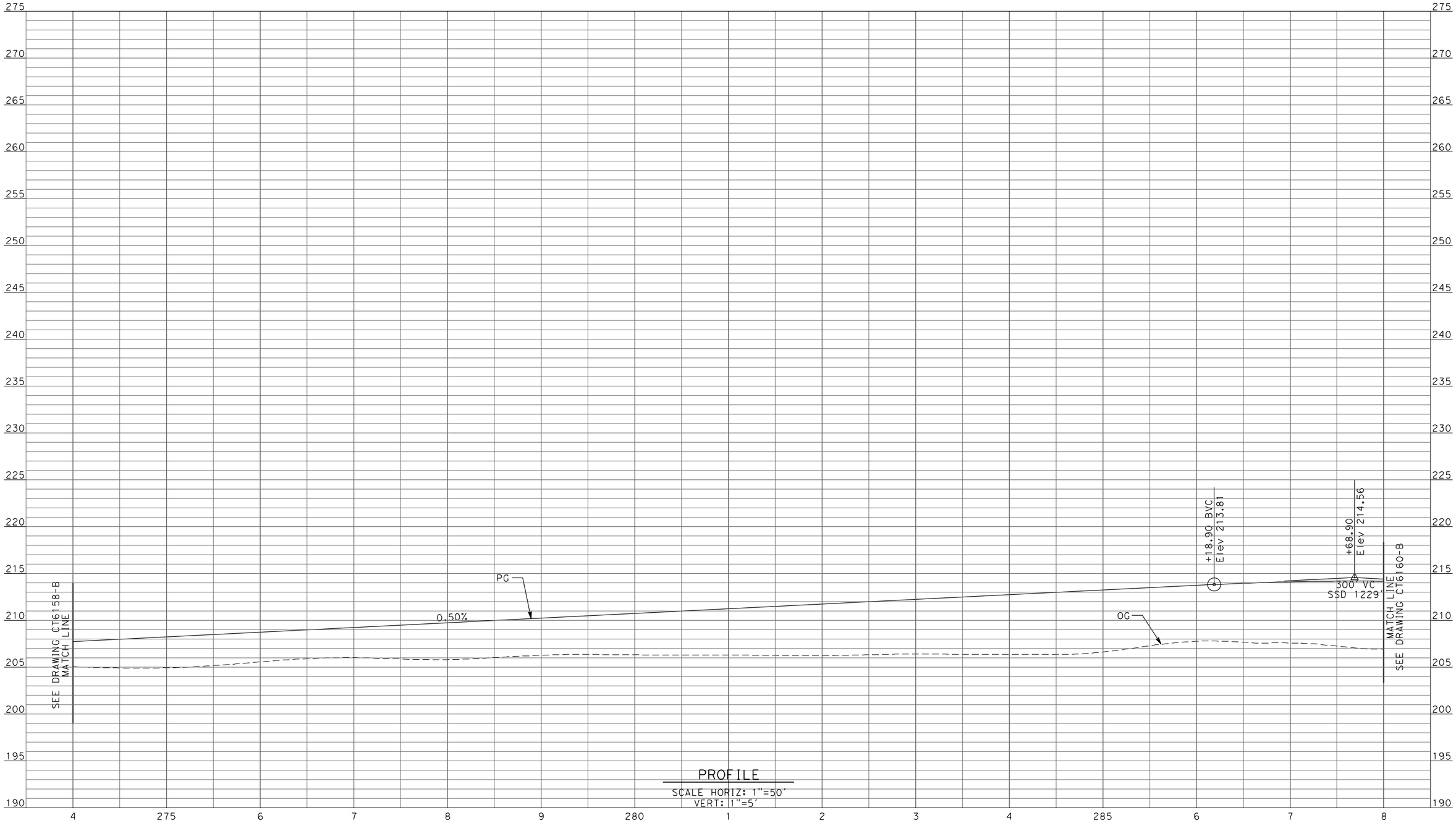
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 8 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6158-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 9 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6159-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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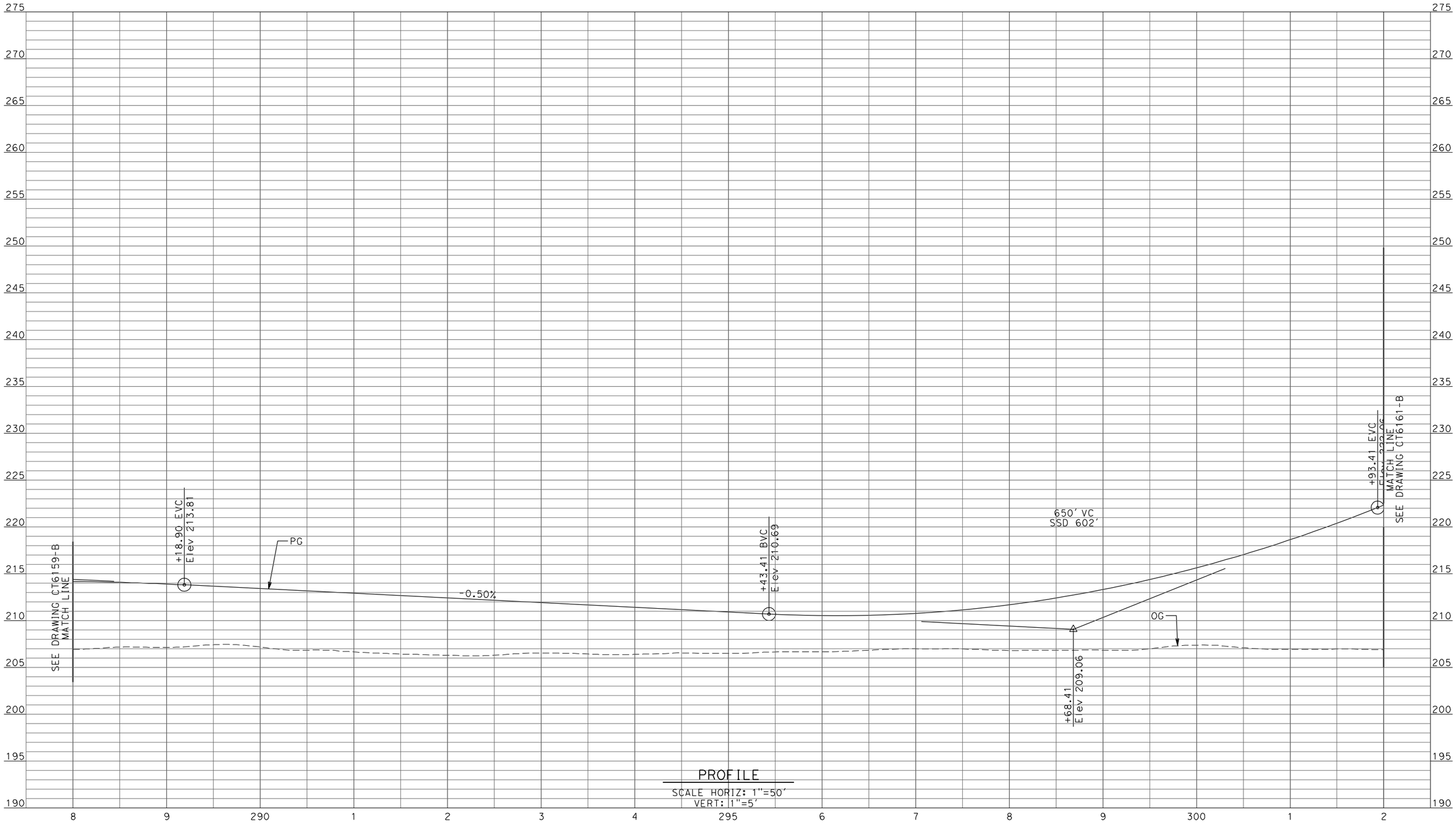

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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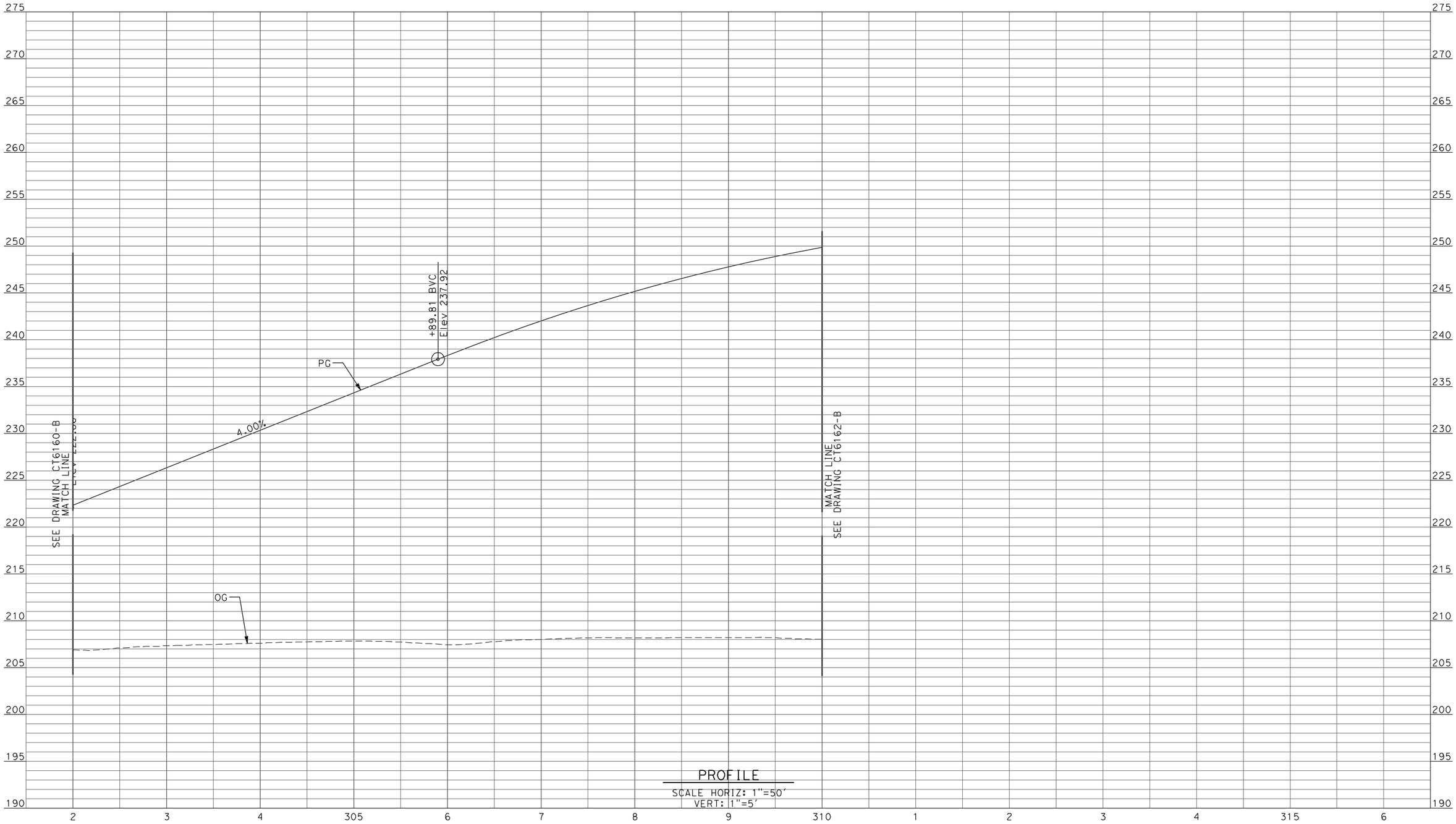
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 10 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6160-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 11 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6161-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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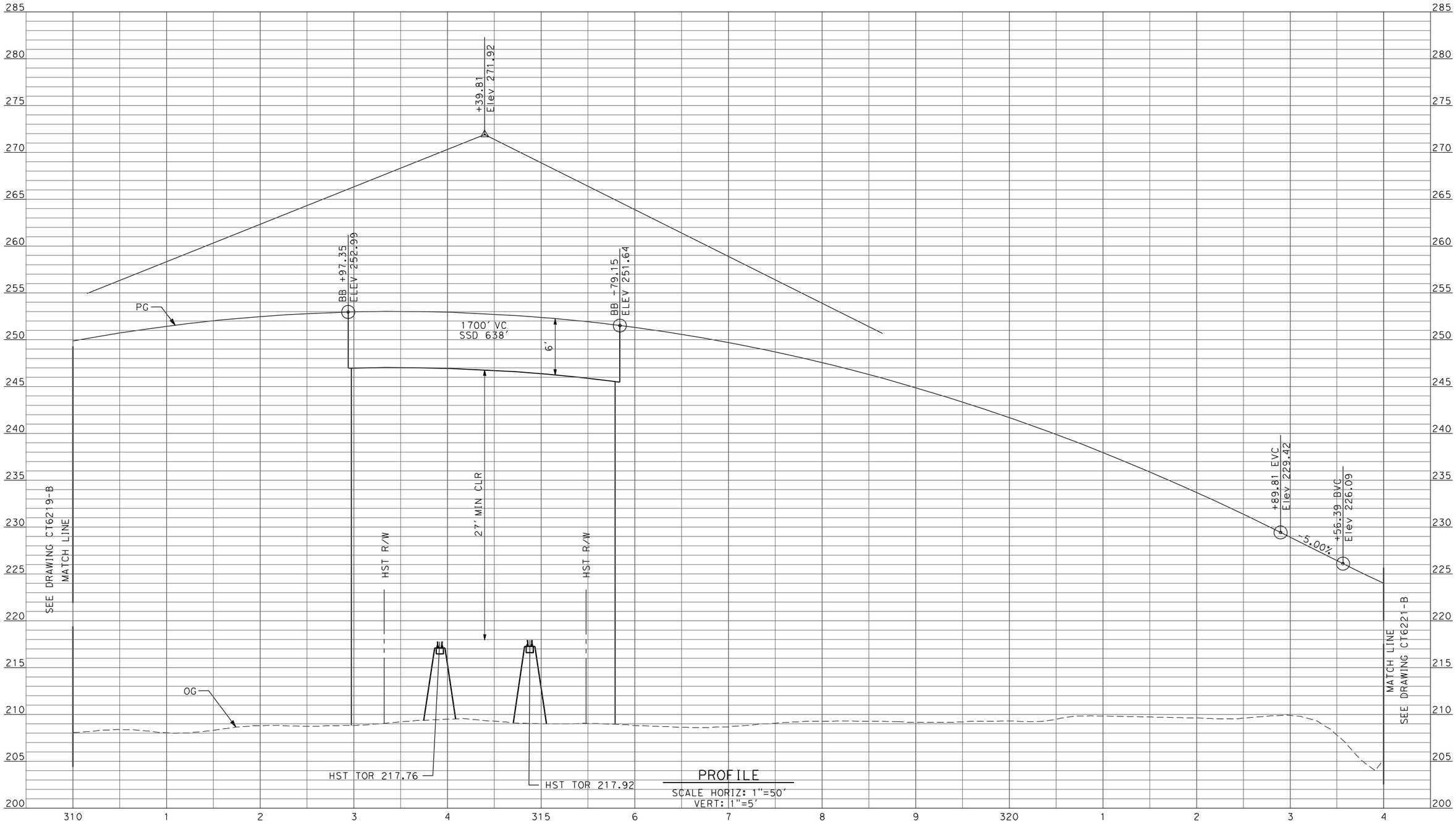
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 12 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6162-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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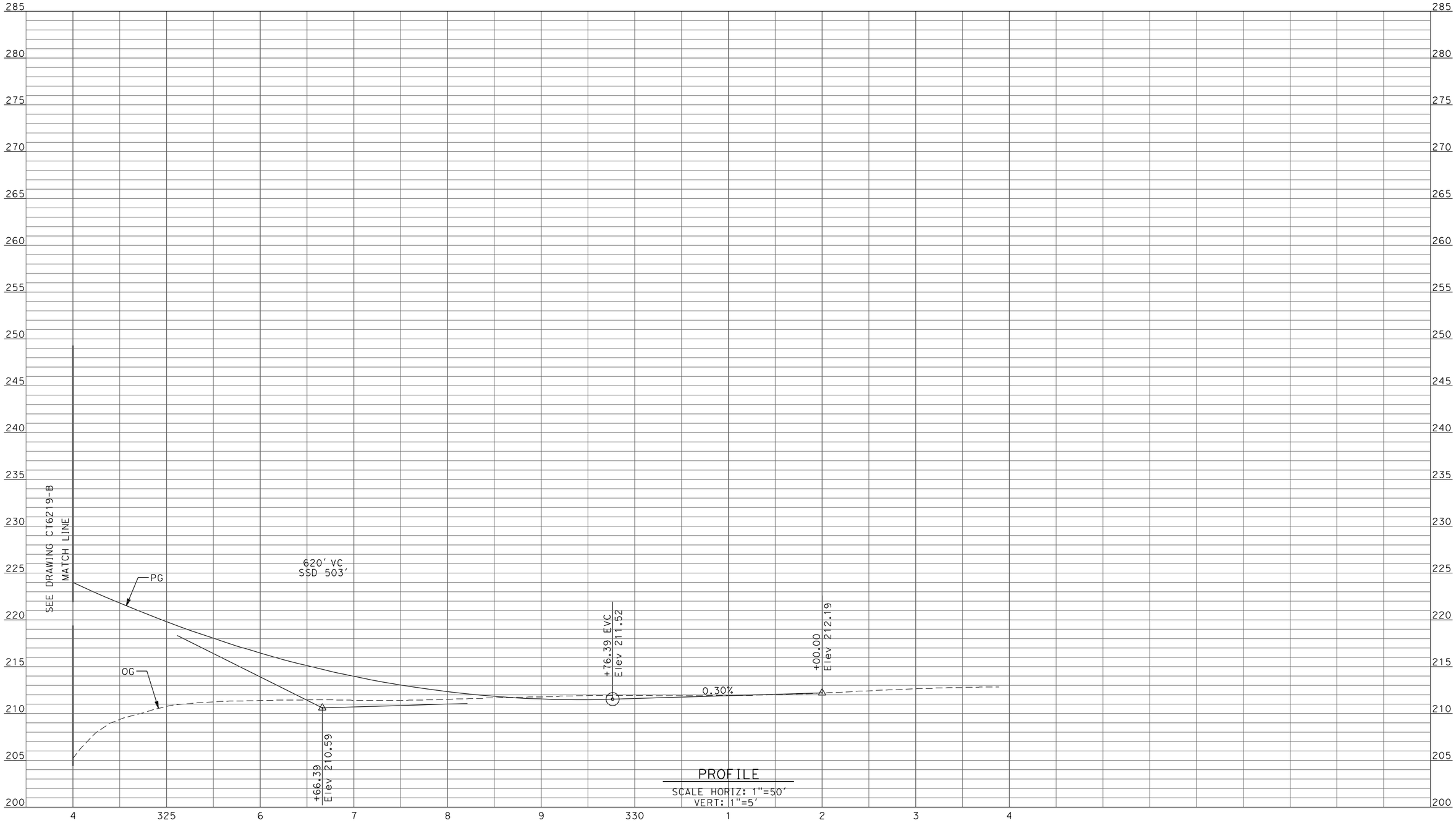
ReyesC1



REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 13 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6163-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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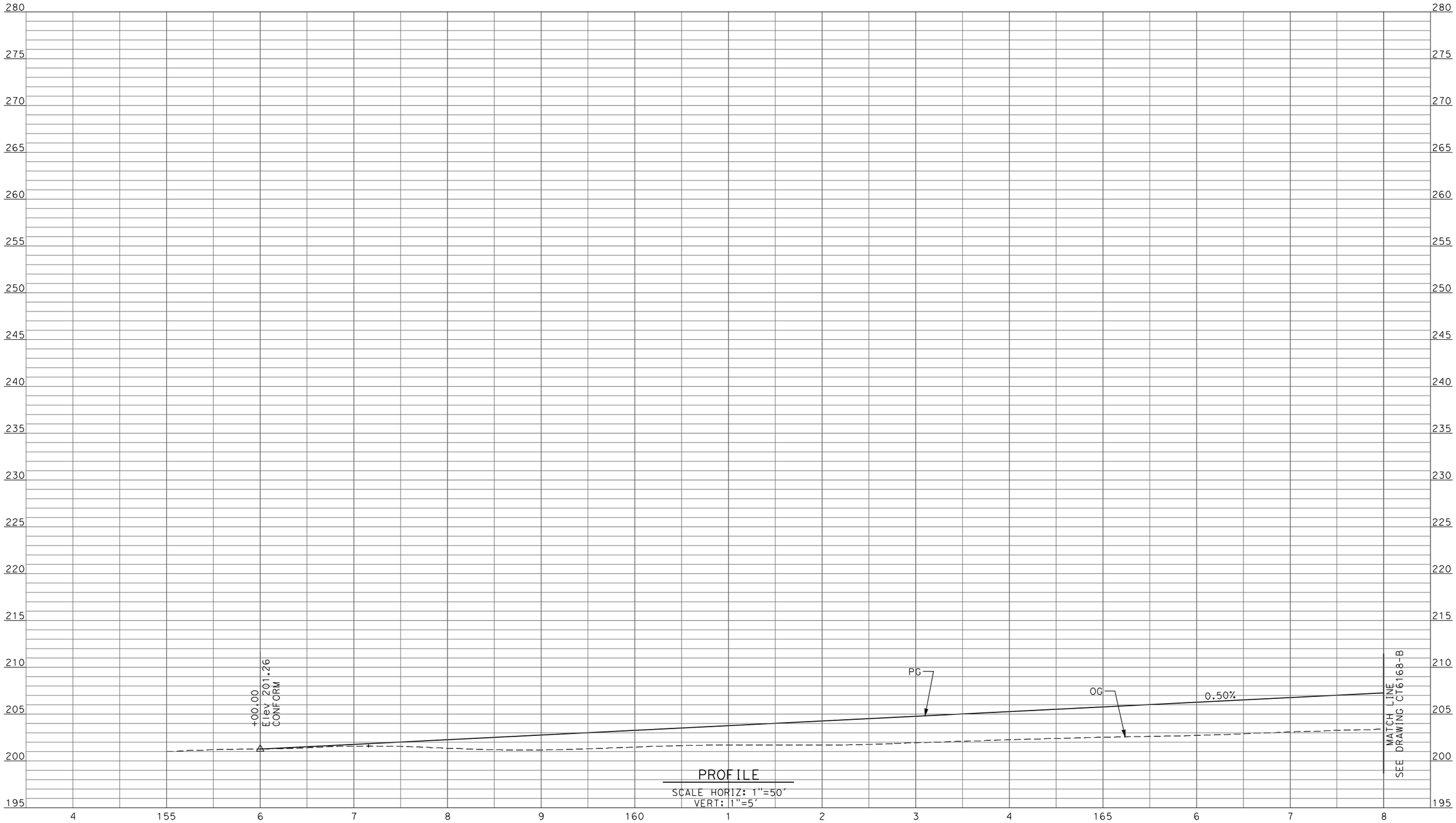
ReyesCl



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 1 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6167-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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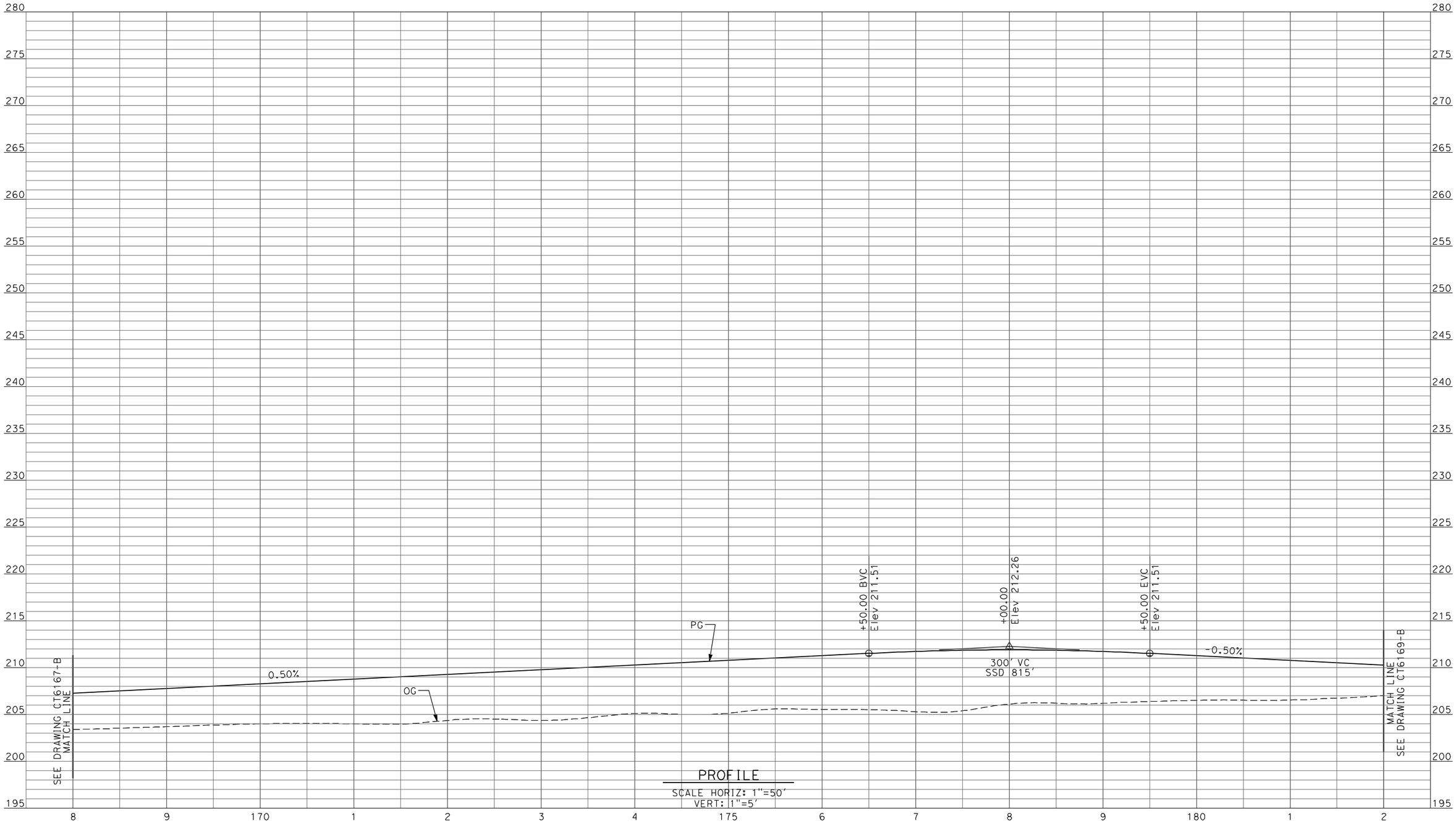
ReyesCl



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 2 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6168-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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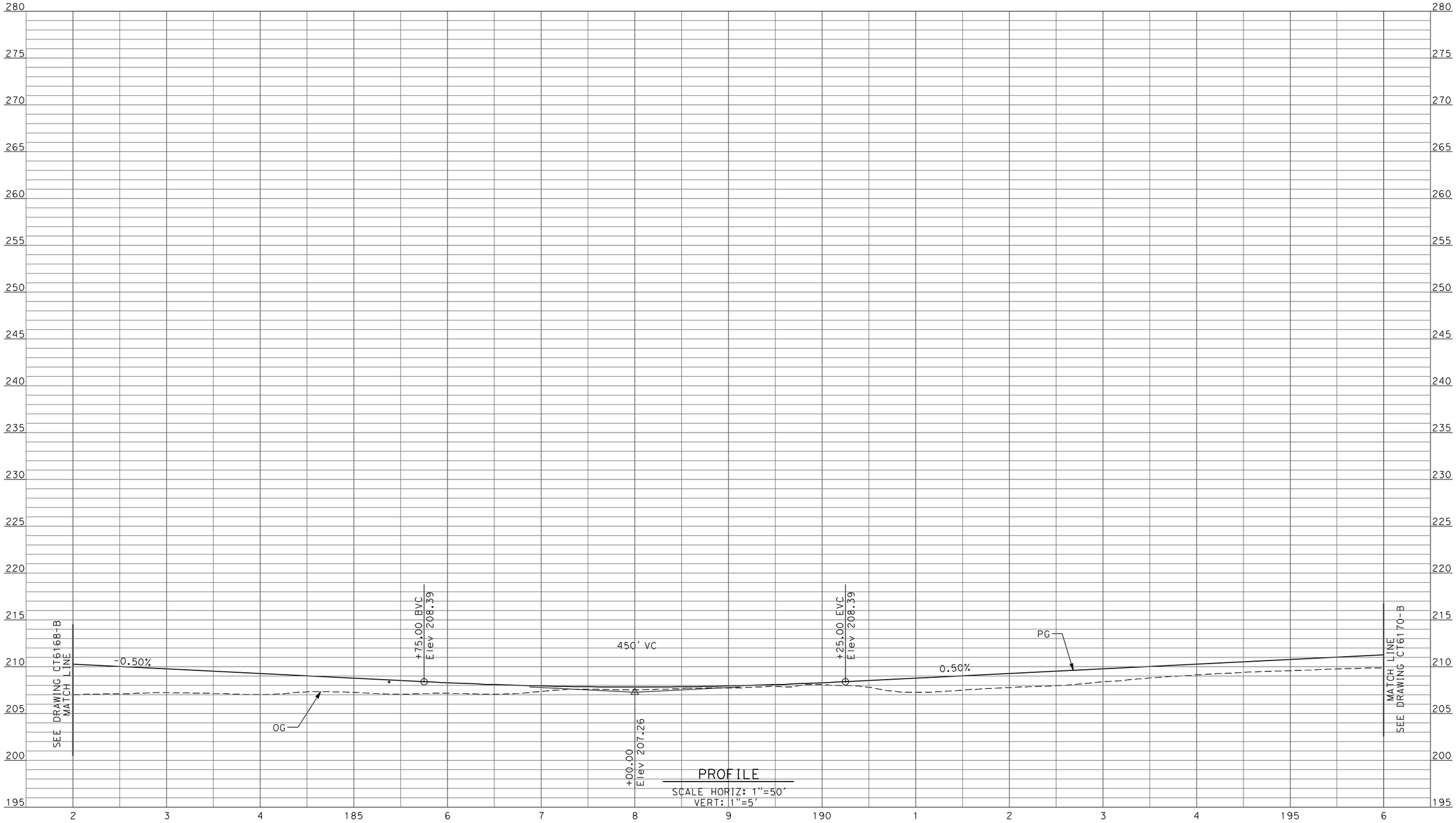

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 3 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6169-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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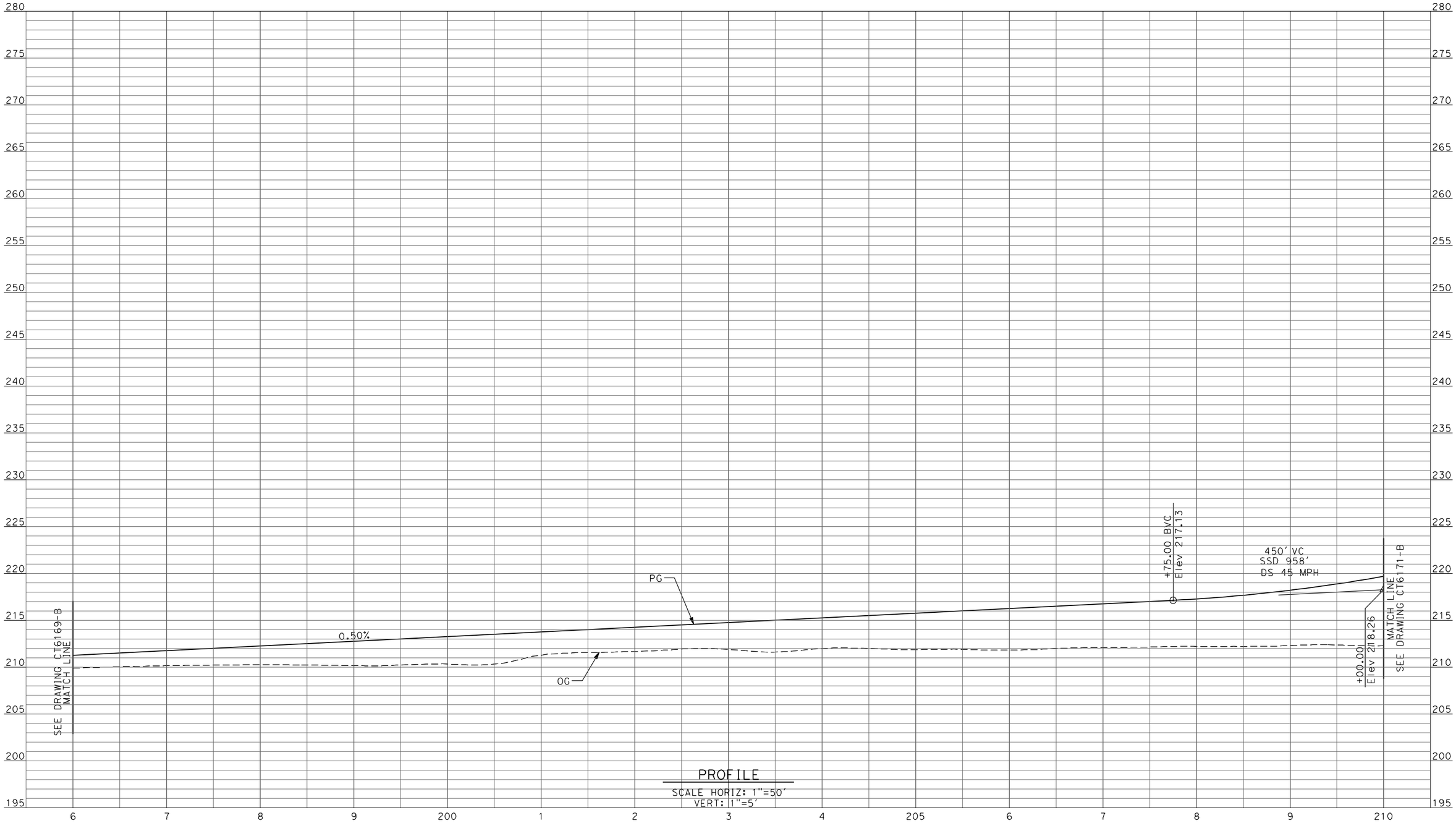

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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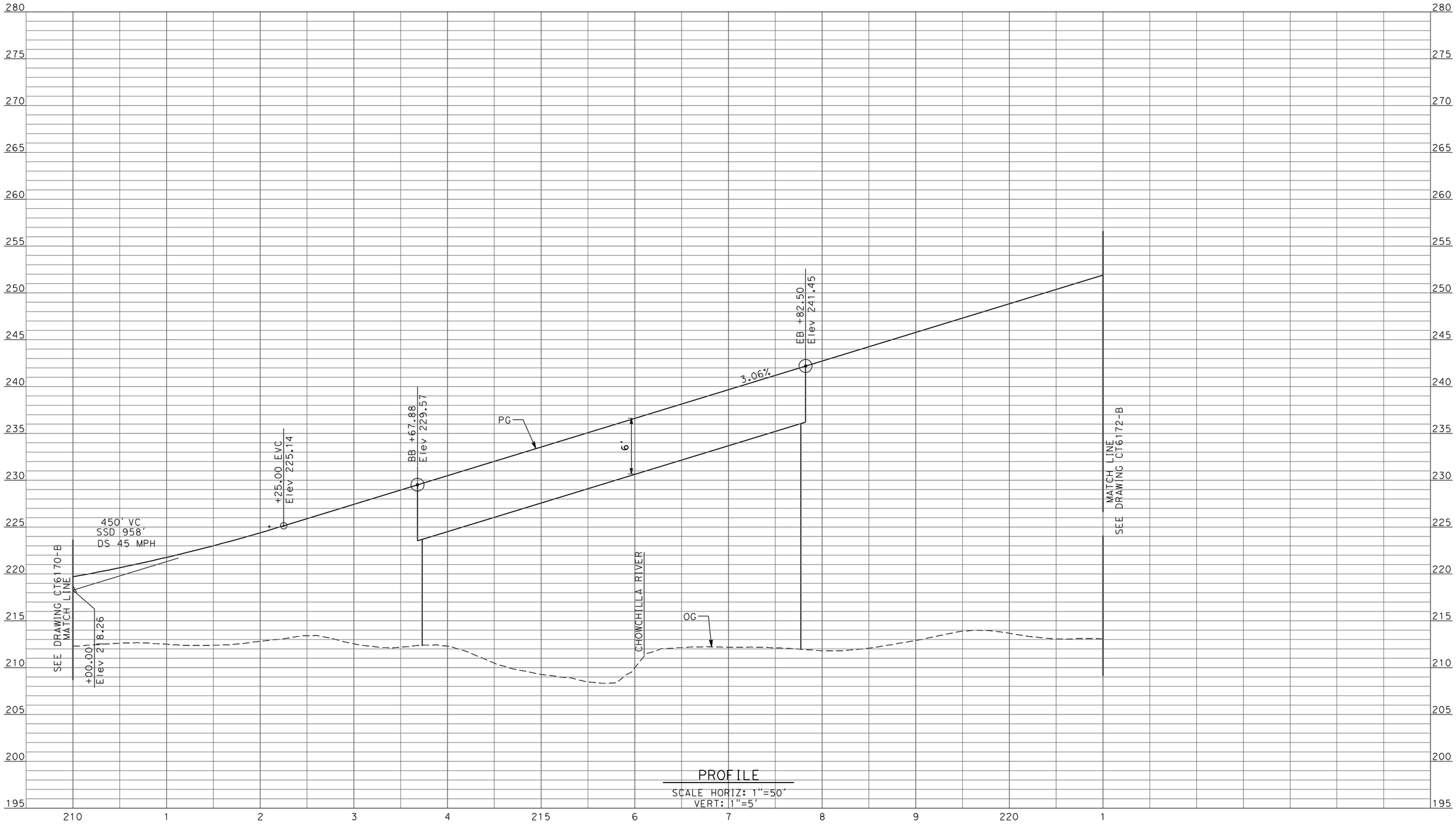
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 4 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6170-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 5 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6171-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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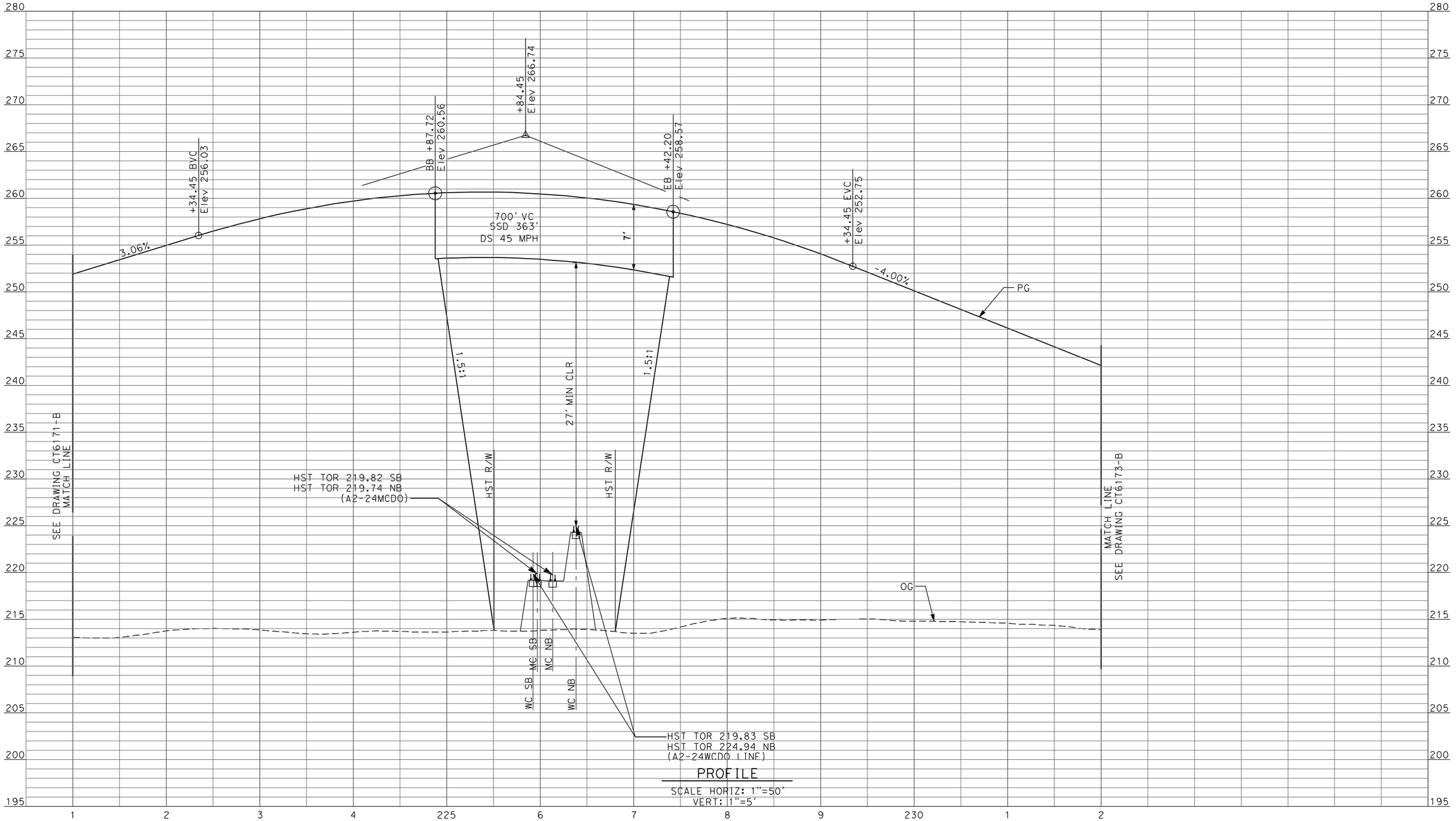
ReyesC1



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 6 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6172-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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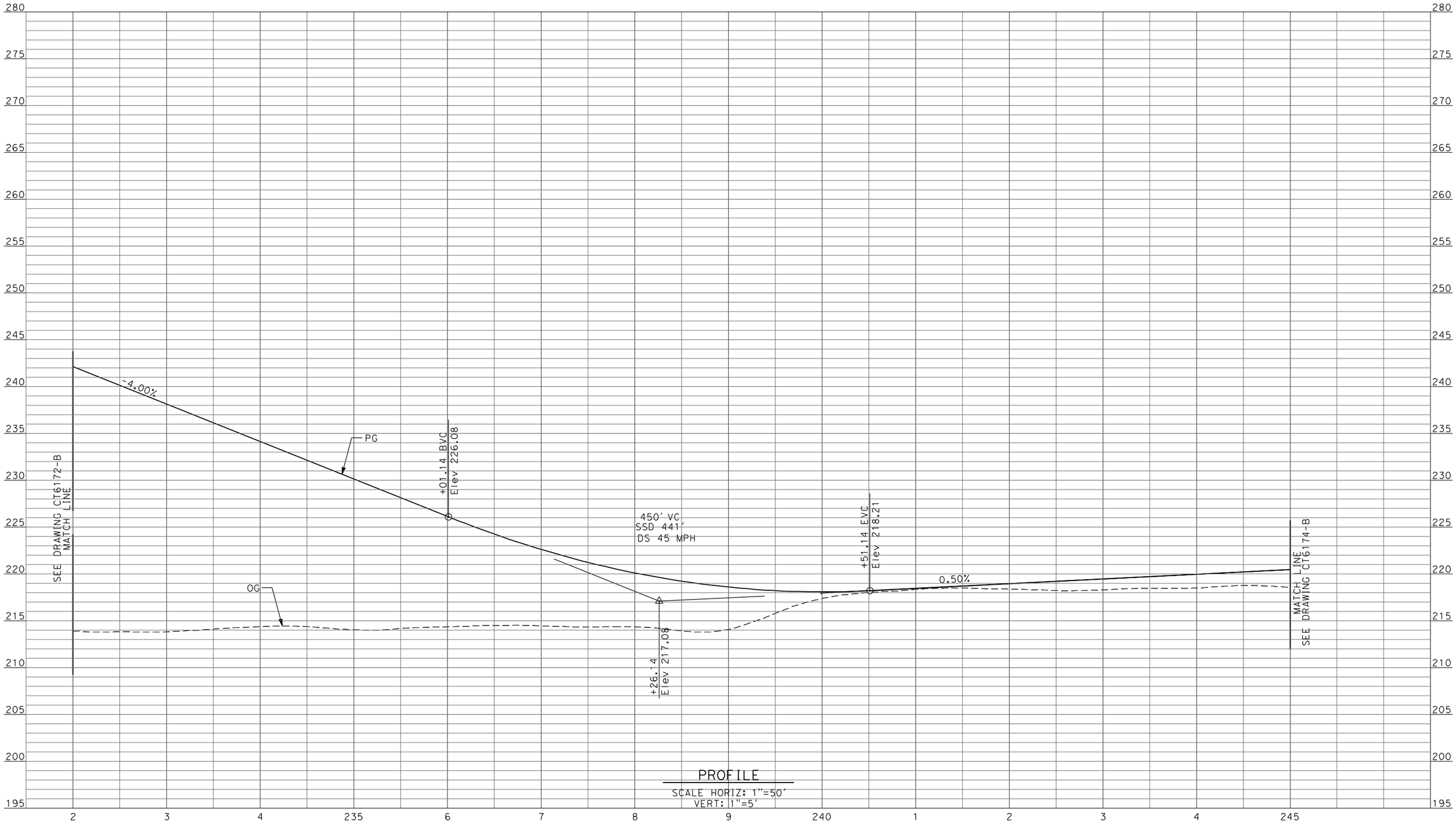

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 7 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6173-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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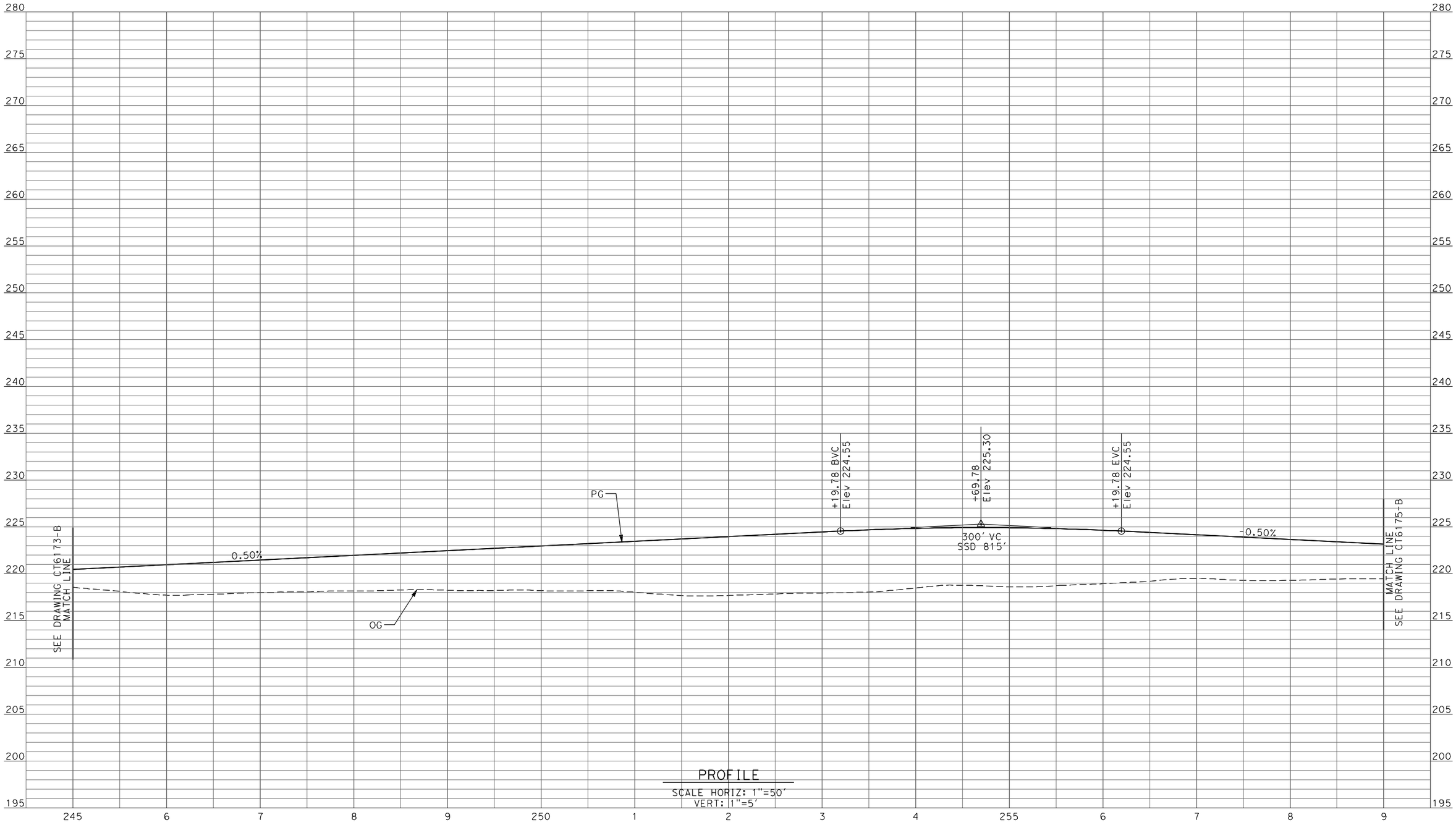
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 8 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6174-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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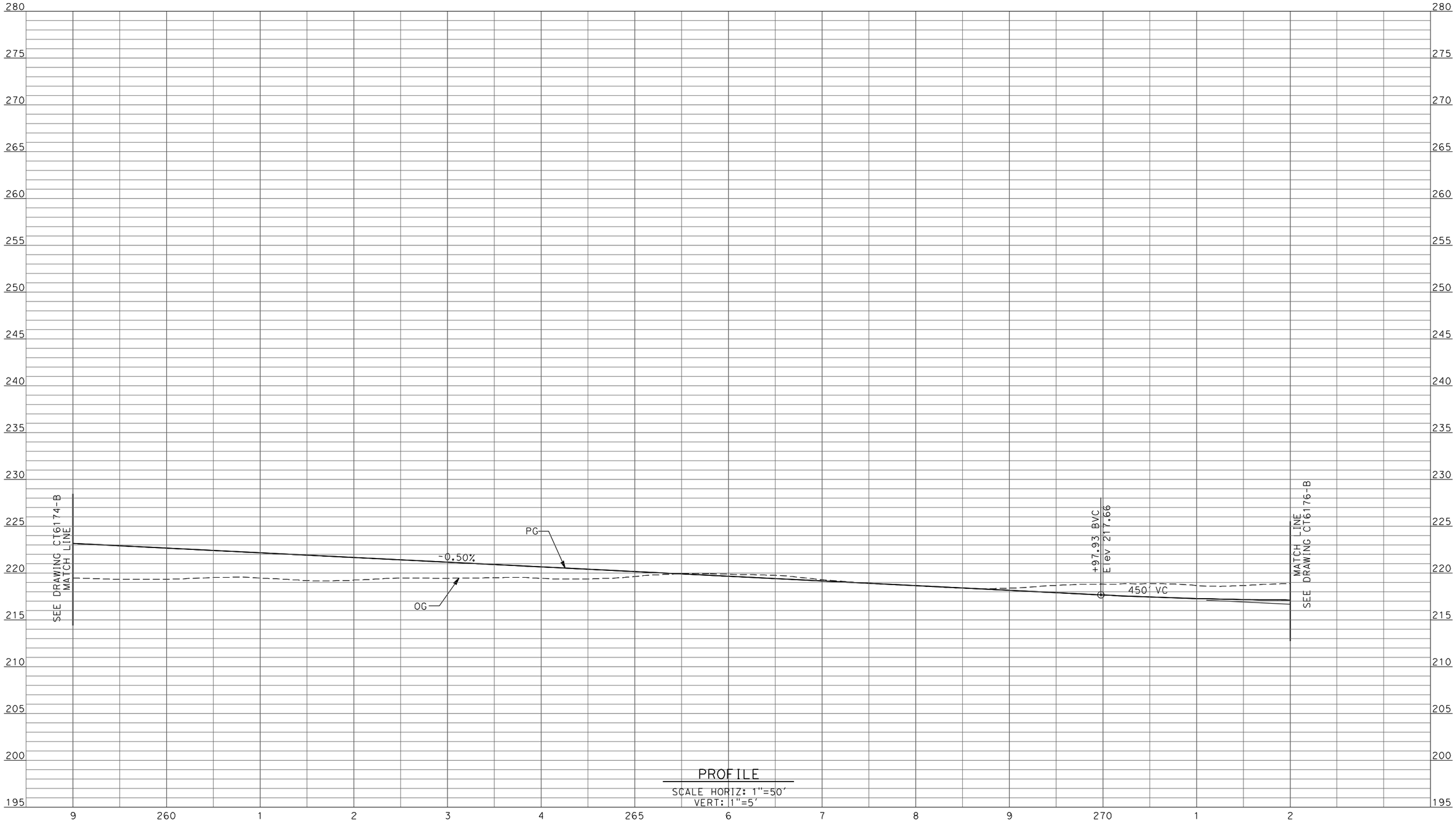
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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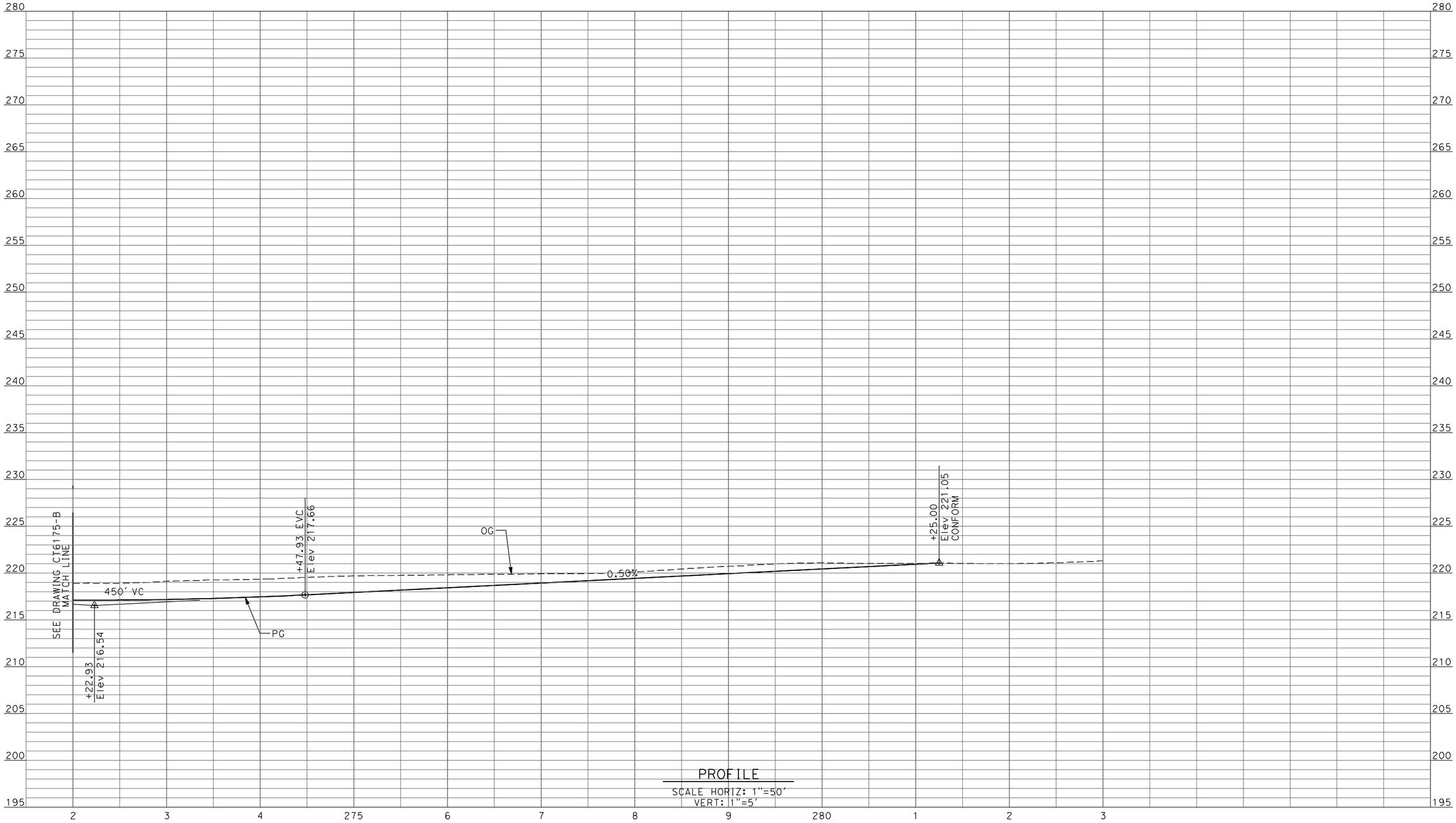
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 9 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6175-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 10 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6176-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesCl

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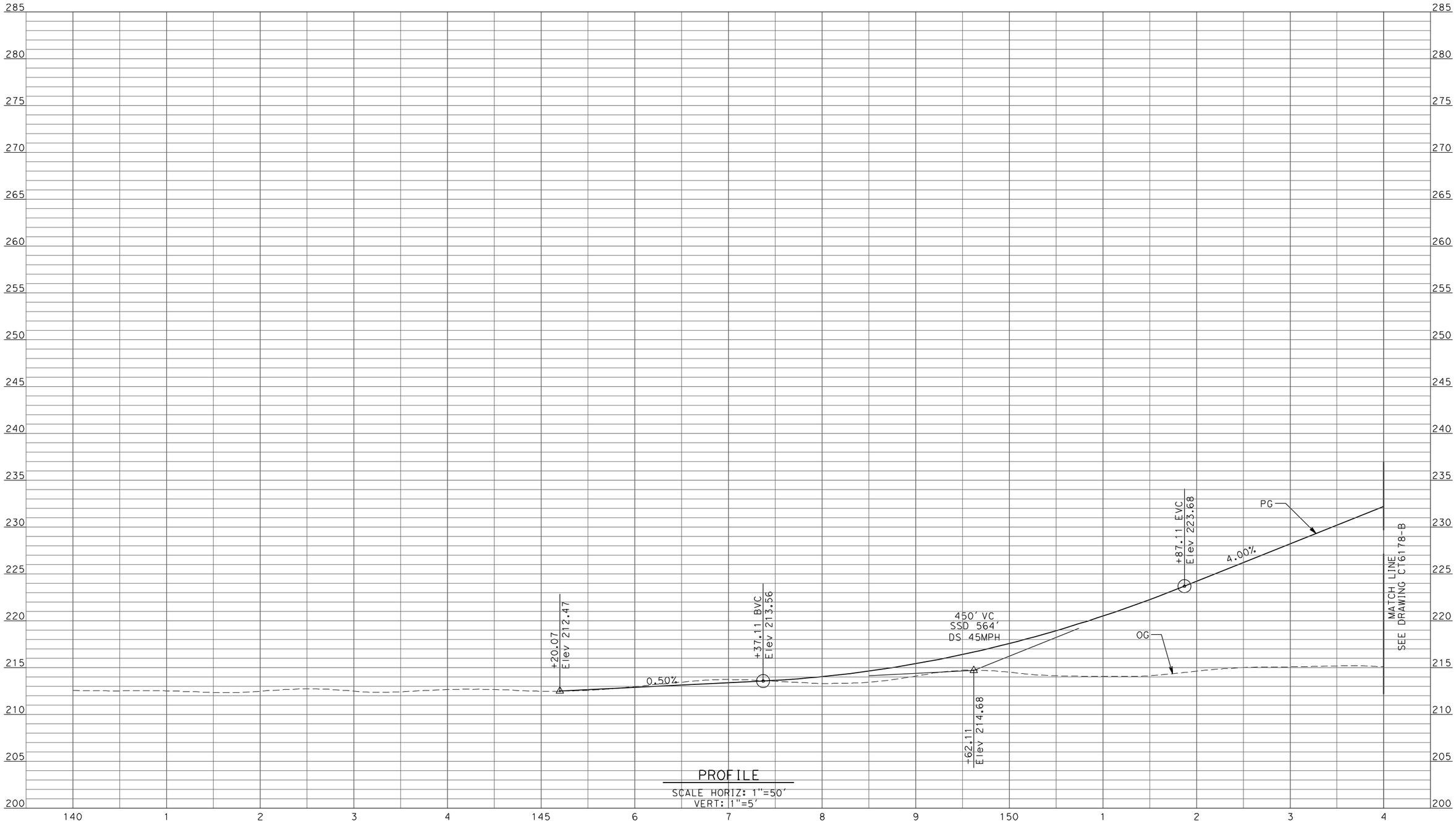
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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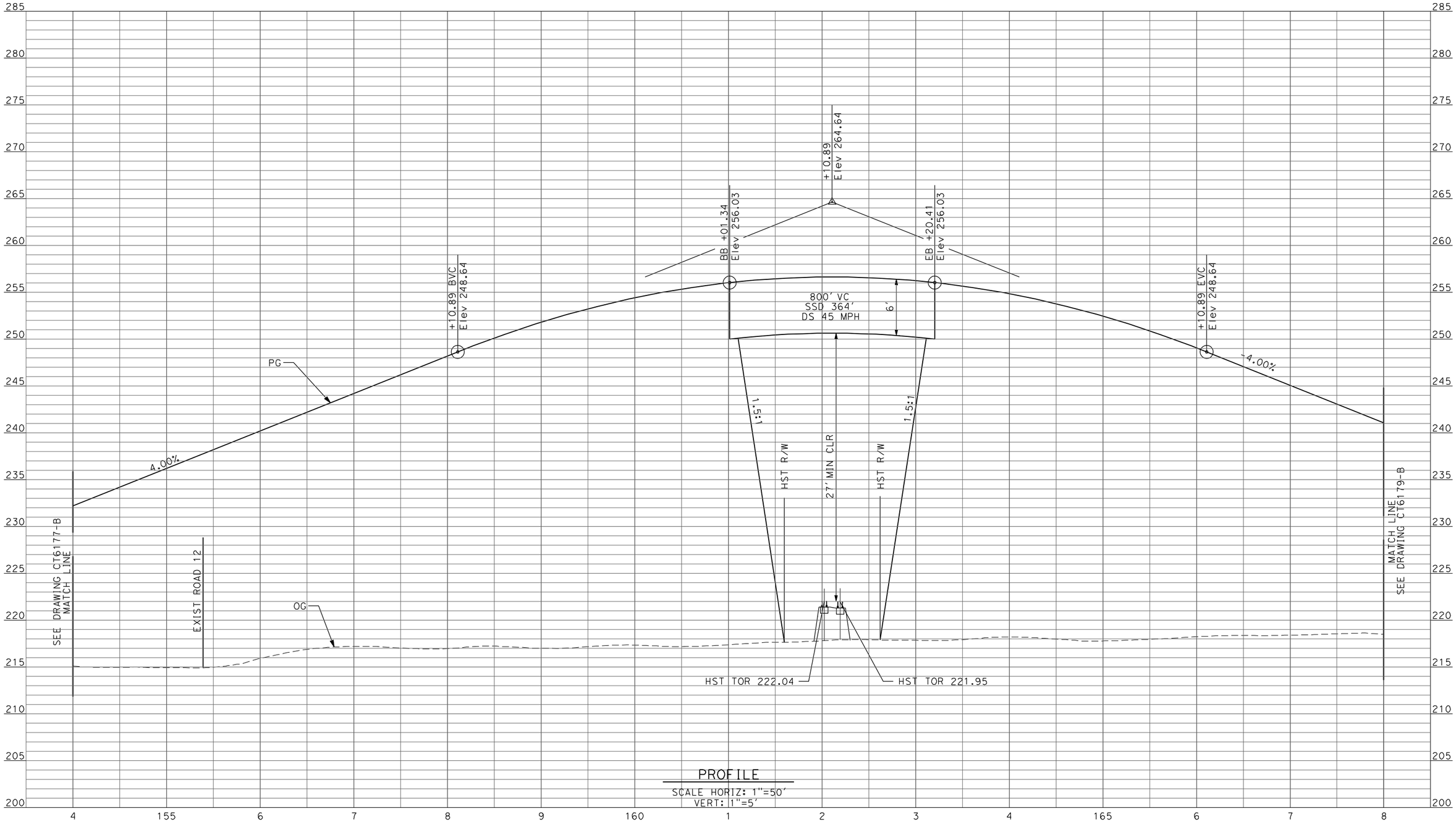
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6177-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6178-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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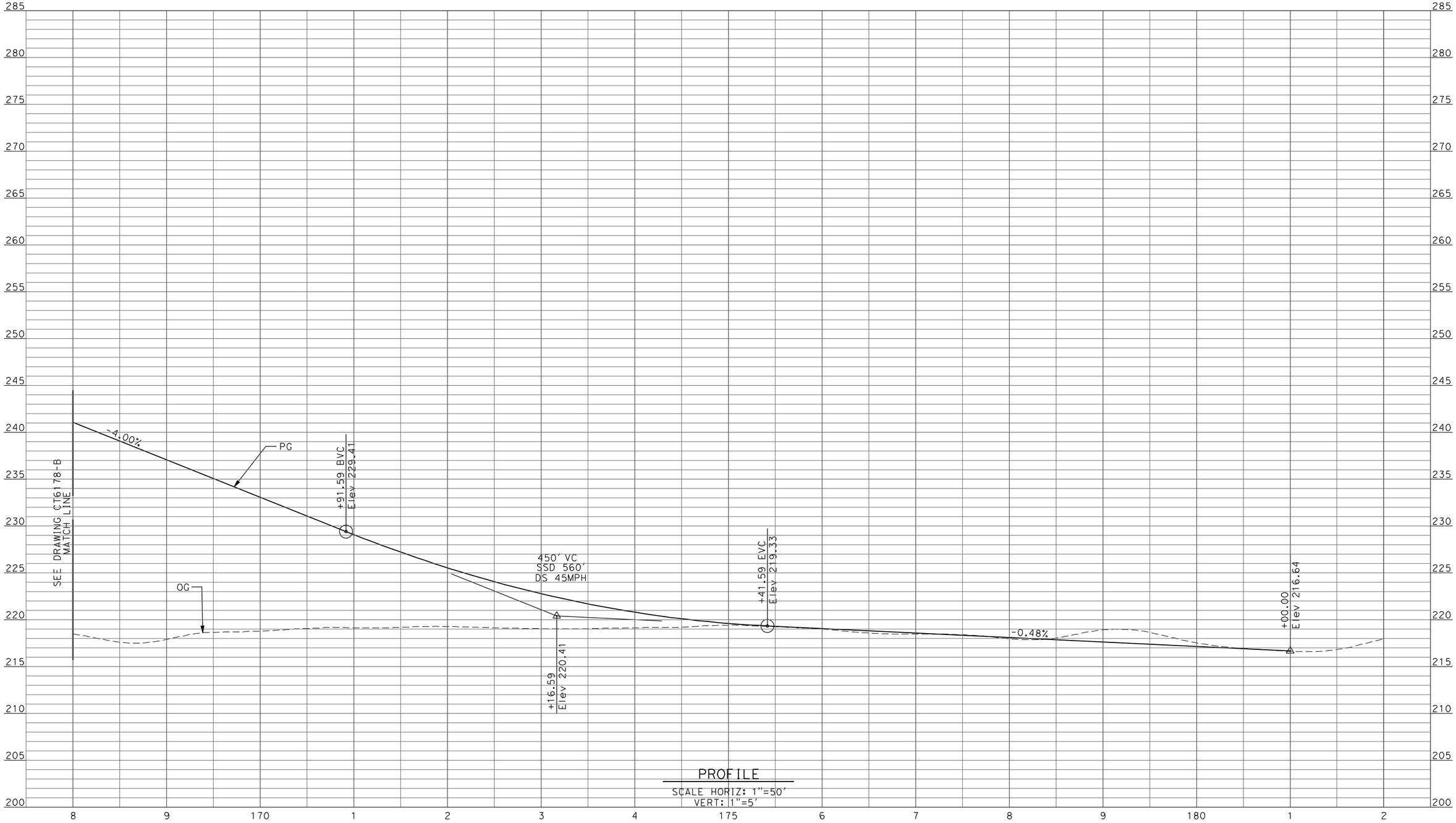
ReyesC1



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6179-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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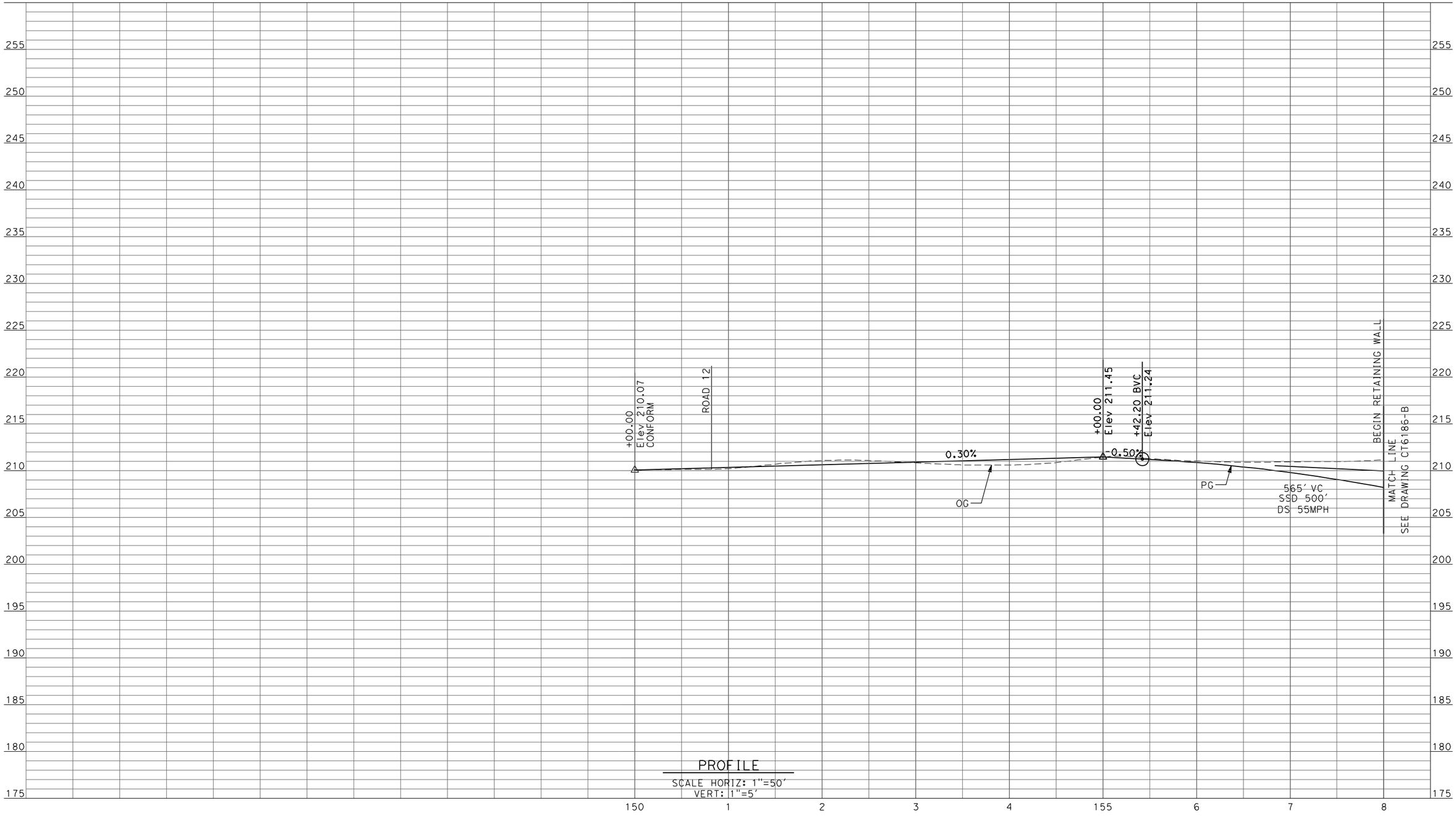
4/27/2011 6:42:07 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla grade separation\Profile\CT6185-B.dgn
ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Profile\CT6185-B.dgn
ReyesC1



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
UNDERPASS - AVENUE 26 ALT 2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6185-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/29/2011 11:44:43 AM P:\60022962\Task 02_Merced-Fresno\cadd\Civil\Sheet\Package 2 - Ave 24 Wye & W. Chowchilla\Volume 1B - Ave 24 Wye-W.Chowchilla Grade Separation\Profile\CT6186-B.dgn
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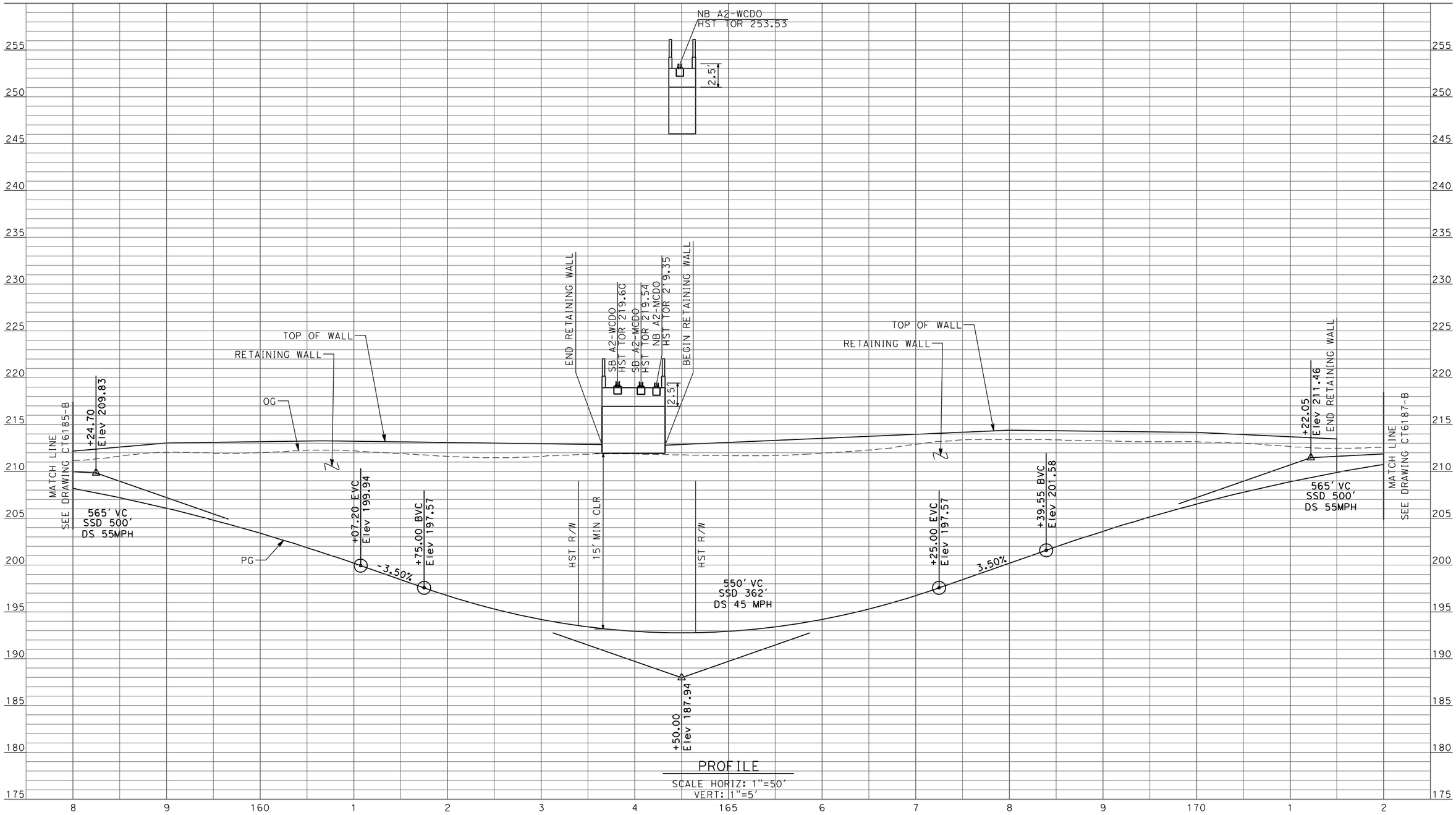

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811
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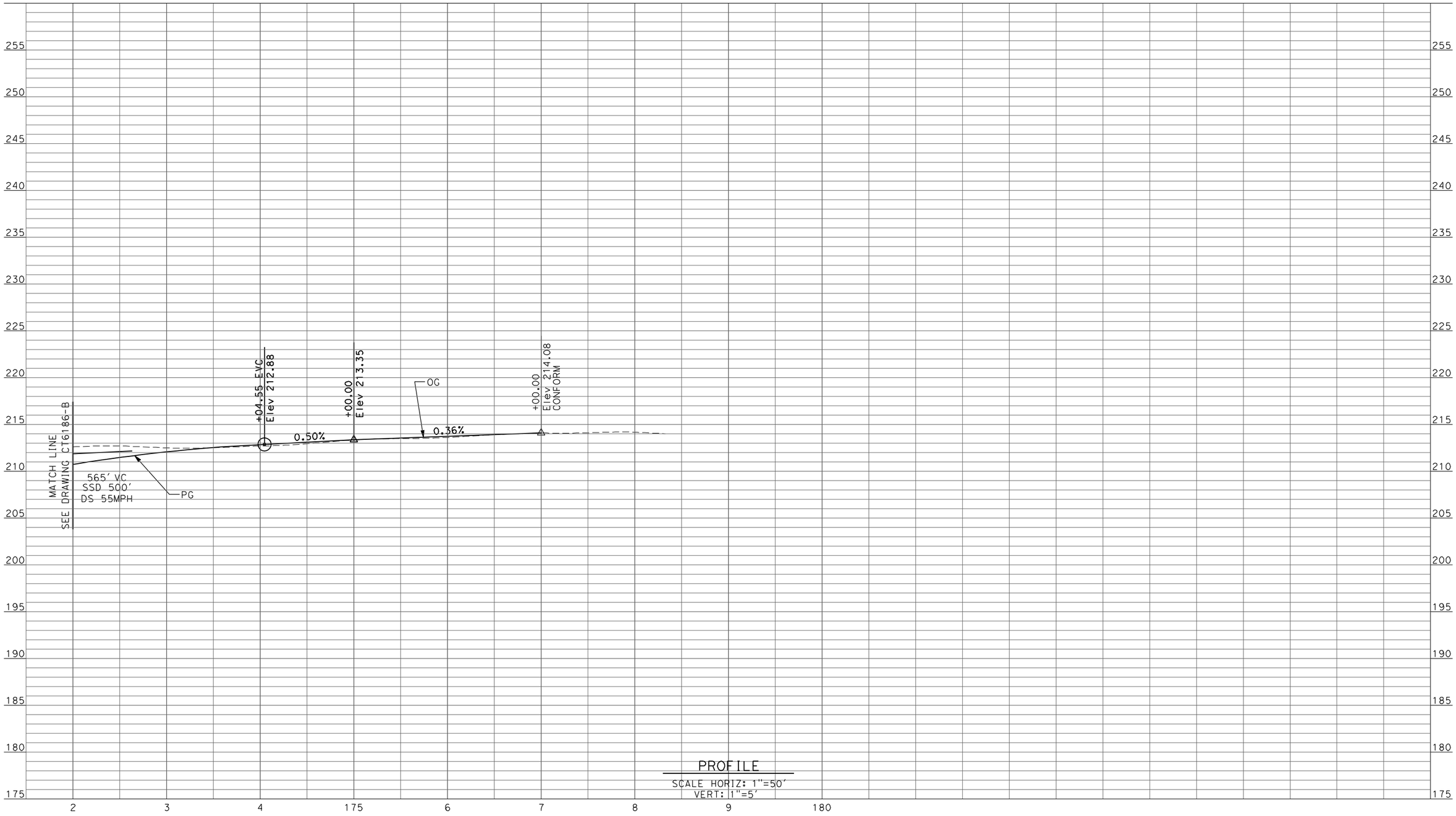
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
UNDERPASS - AVENUE 26 ALT 2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6186-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (WC)
UNDERPASS - AVENUE 26 ALT 2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6187-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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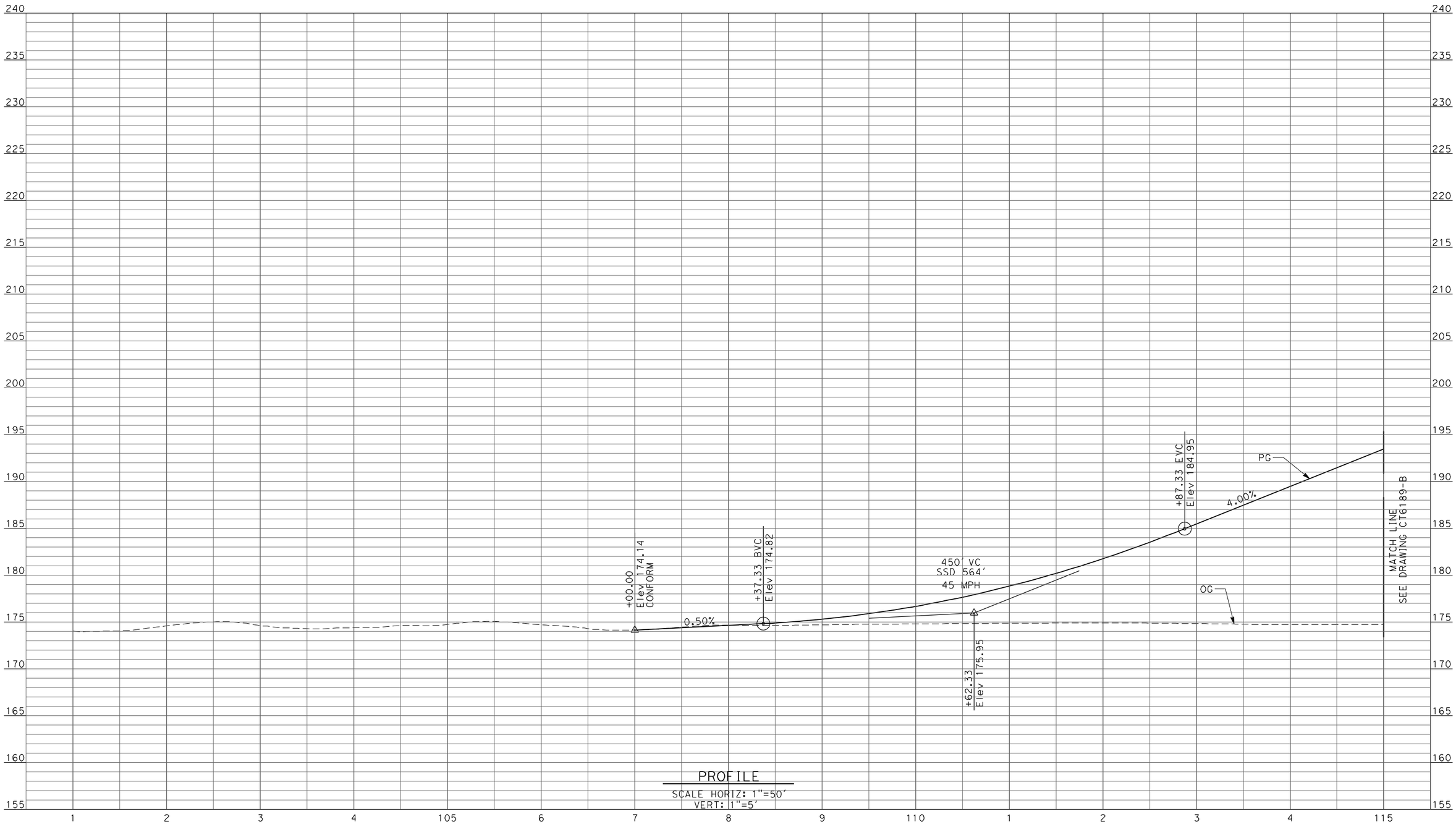
ReyesC1

ReyesC1 4/27/2011 6:42:18 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Profile\CT6188-B.dgn



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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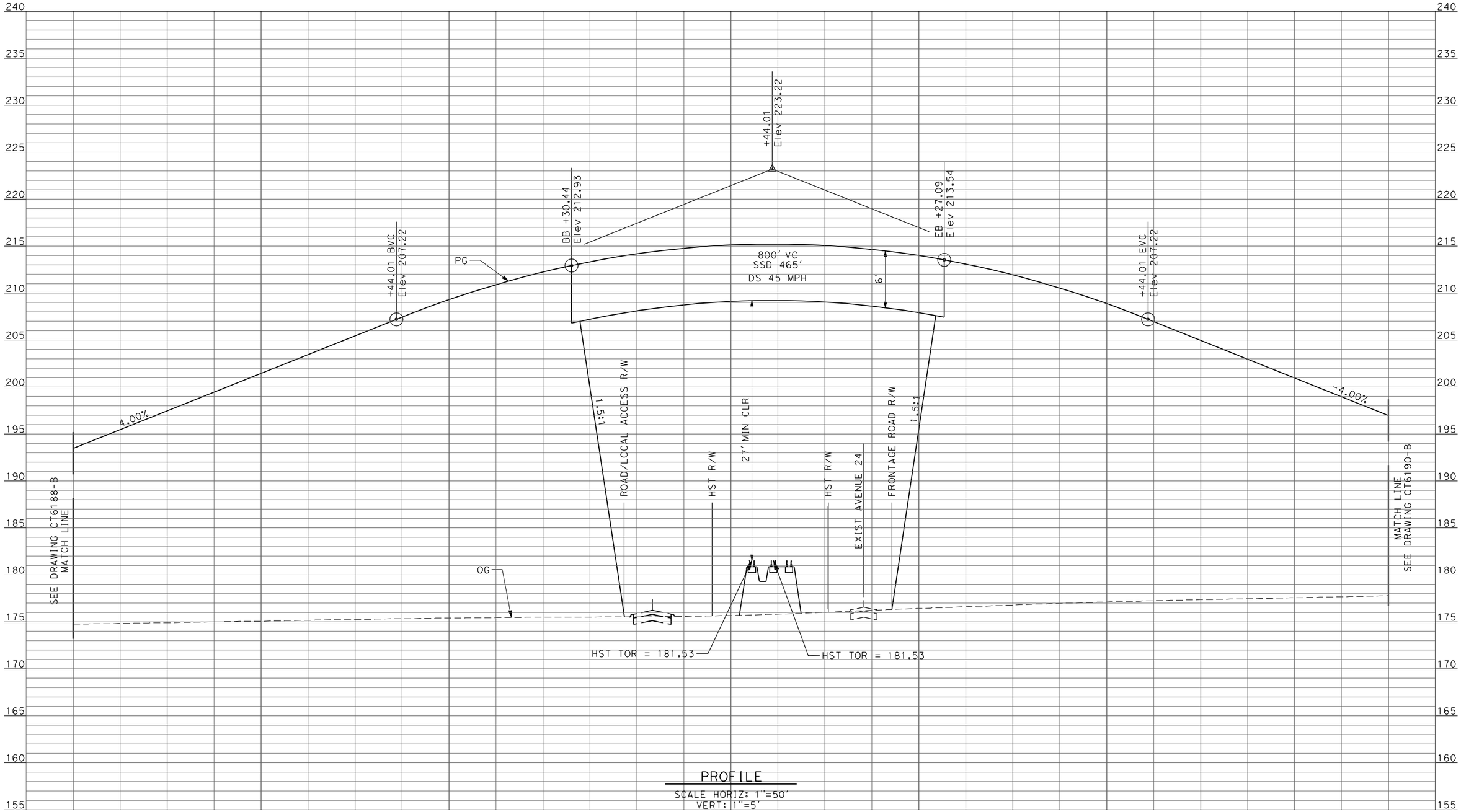
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24)
GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6188-B
SCALE AS SHOWN
SHEET NO. ### OF ###



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24)
GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6189-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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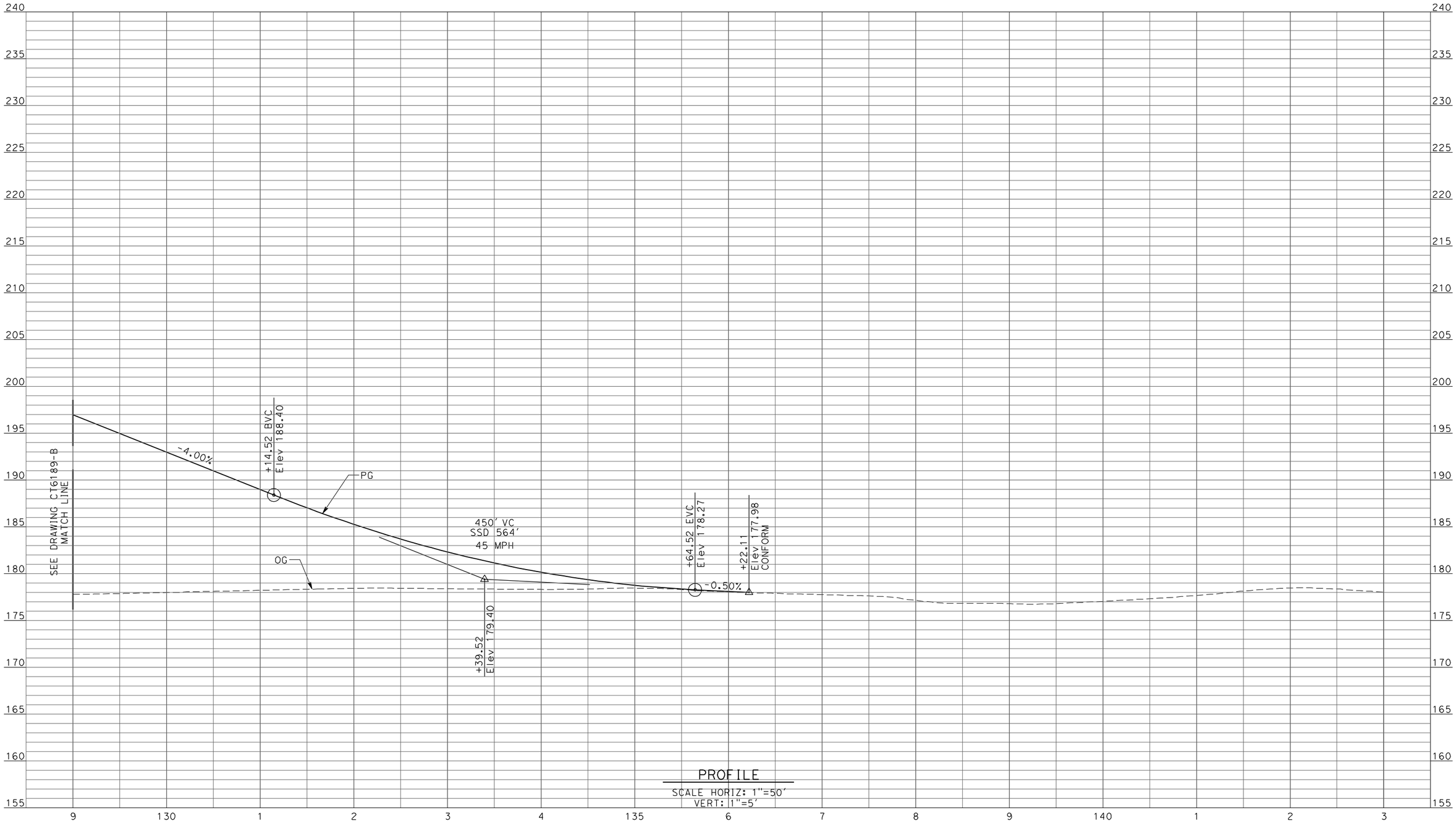
ReyesC1



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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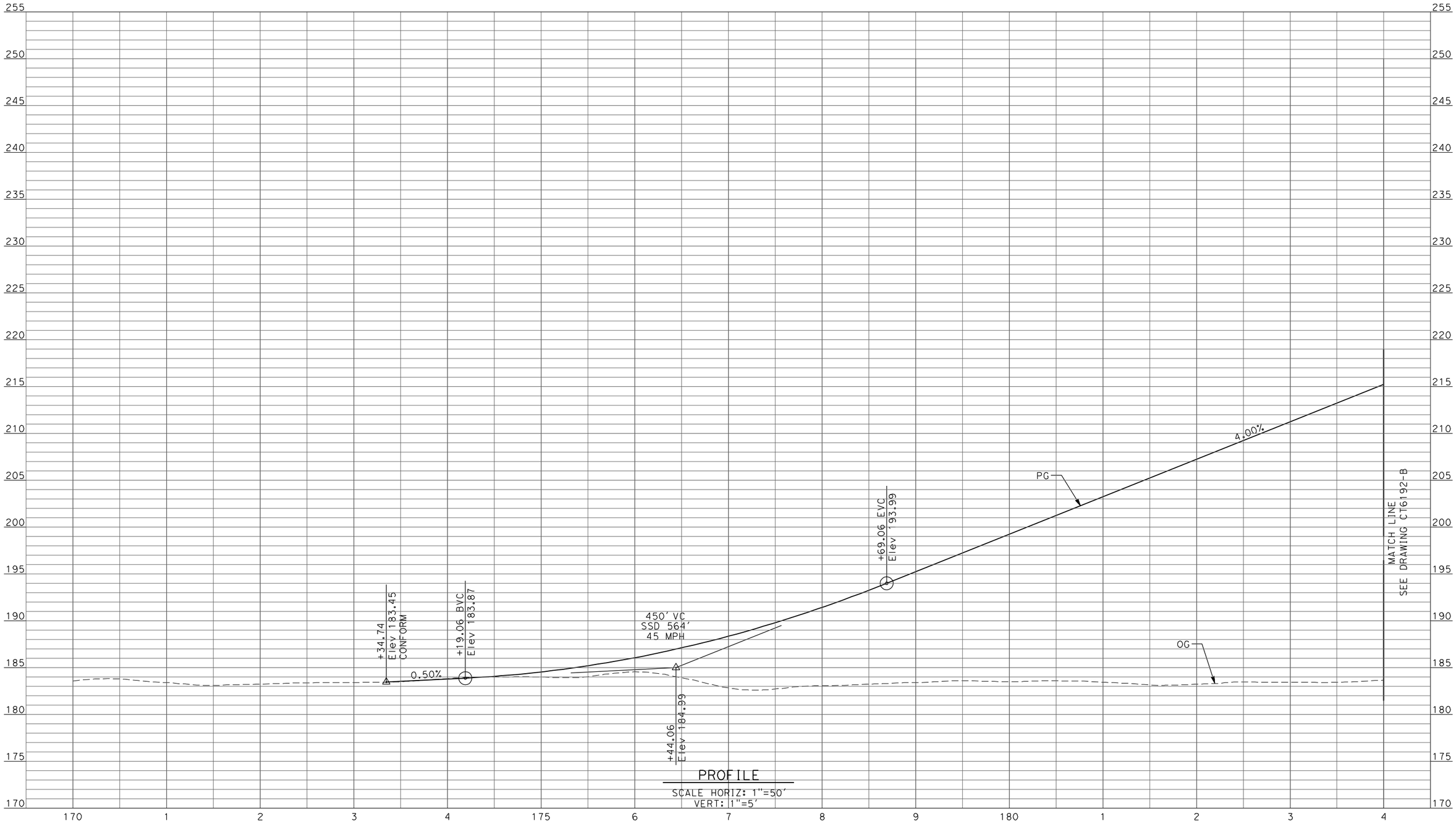
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24)
GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6190-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6191-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

Page 2 - ave 24 wye & w. chowchilla\volume 1b - ave 24 wye-w.chowchilla grade separation\Profile\CT6192-B.dgn
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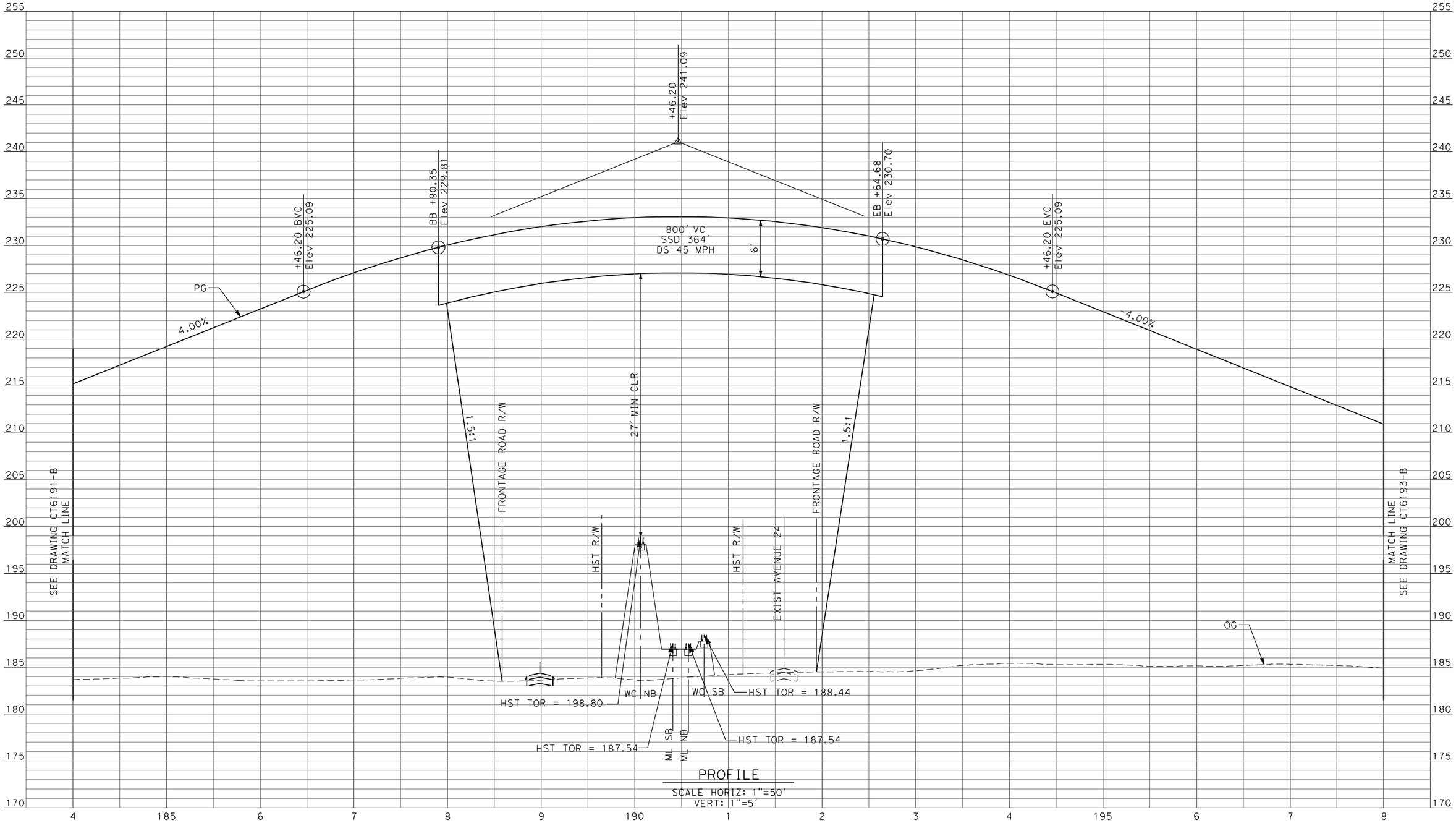

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6192-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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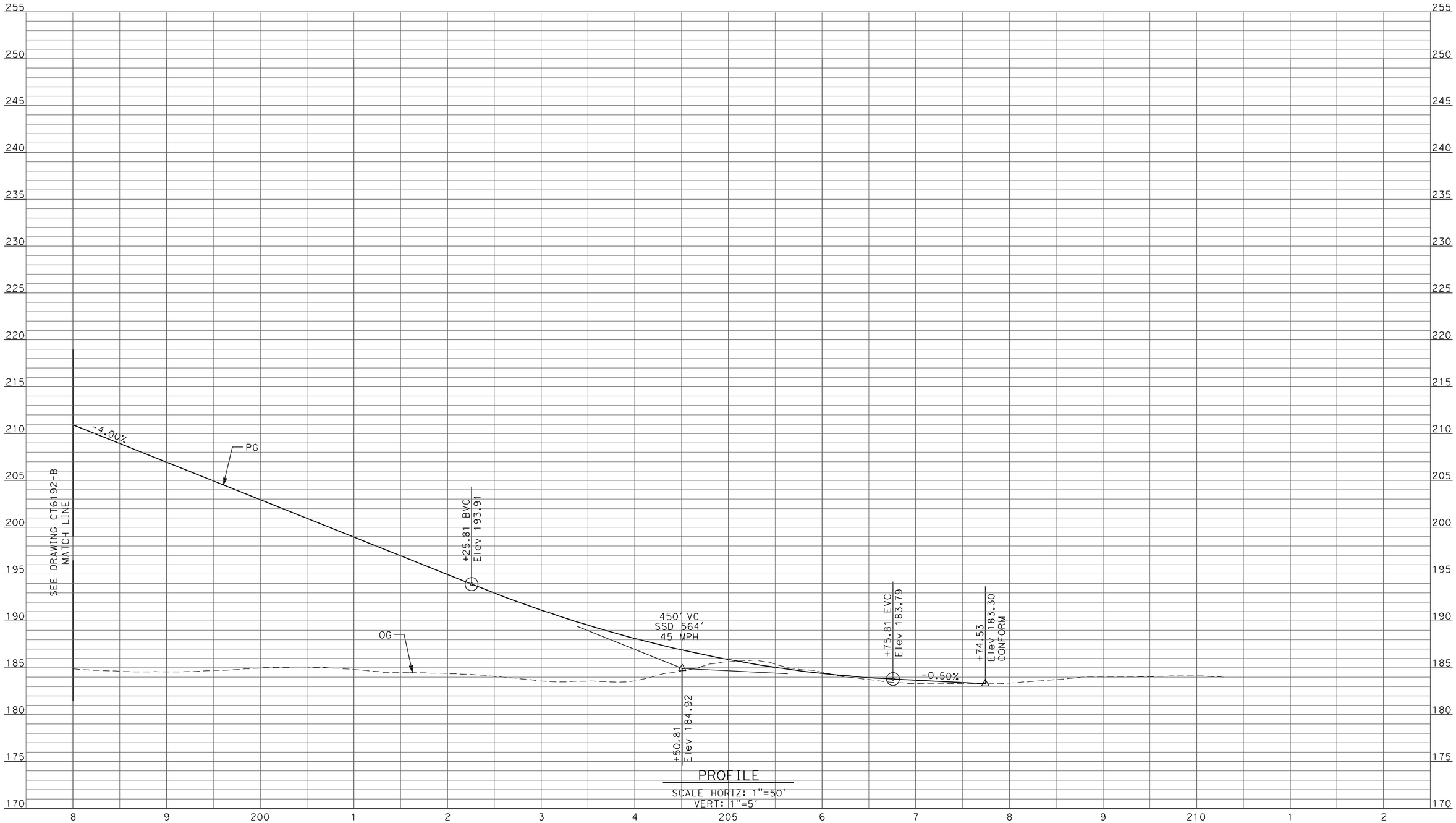

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (WC)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6193-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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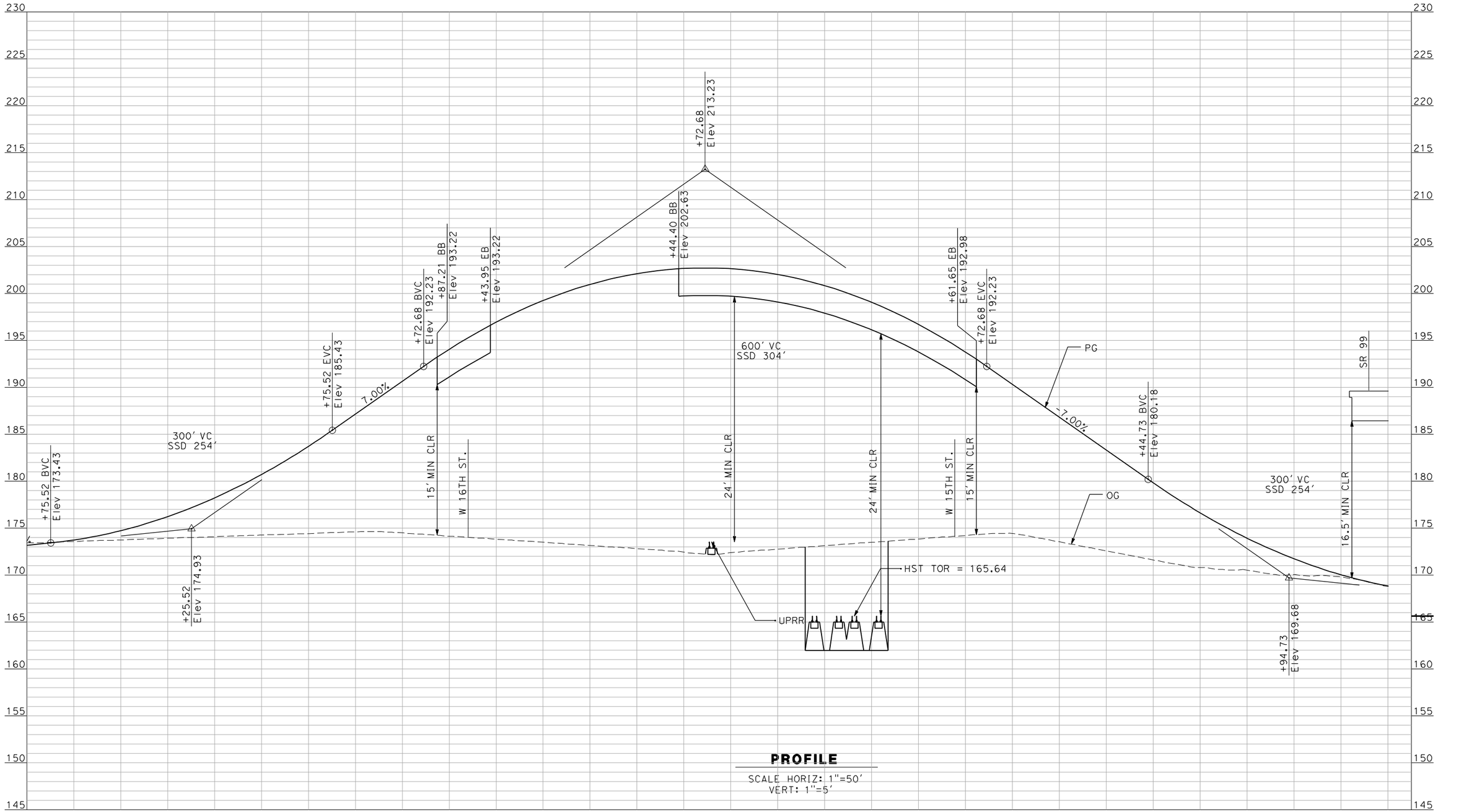

PROFILE

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

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR MERCED CONNECTION - (AVE 24/WC)
GRADE SEPARATION - G Street
PROFILE
SHEET 1 OF 1

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

SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE LINE 6
ROADWAY BRIDGE STRUCTURE PLANS UPRR/SR 99 AVENUE 24 ALTERNATIVE					
			GENERAL		
	SB1201	UPRR/SR 99 ALTERNATIVE	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 1
	SB1202	UPRR/SR 99 ALTERNATIVE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 1 OF 2
	SB1203	UPRR/SR 99 ALTERNATIVE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 2 OF 2
			OVERHEAD BRIDGES		
	ST1120	UPRR/SR 99 MAIN LINE/WYE CONNECTION	AVENUE 24	ROAD 9 OVERHEAD	PLANNING STUDY
	ST1138	UPRR/SR 99 MAIN LINE	AVENUE 24	ROAD 13 OVERHEAD	PLANNING STUDY
	ST1122	UPRR/SR 99 MAIN LINE	AVENUE 24	ROAD 15 OVERHEAD	PLANNING STUDY
	ST1123	UPRR/SR 99 MAIN LINE/WYE CONNECTION	AVENUE 24	ROAD 16 OVERHEAD	PLANNING STUDY
	ST1124	UPRR/SR 99 MAIN LINE	AVENUE 24	AVENUE 23½OVERHEAD	PLANNING STUDY
	ST1125	UPRR/SR 99 WYE CONNECTION	AVENUE 24	AVENUE 25 OVERHEAD	PLANNING STUDY
	ST1126	UPRR/SR 99 WYE CONNECTION	AVENUE 24	AVENUE 26 OVERHEAD	PLANNING STUDY
	ST1127	UPRR/SR 99 WYE CONNECTION	AVENUE 24	CROSS ROAD OVERHEAD	PLANNING STUDY
	ST1128	UPRR/SR 99 MAIN LINE/W CHOWCHILLA	AVENUE 24	ROAD 10 OVERHEAD	PLANNING STUDY
	ST1129	UPRR/SR 99 MAIN LINE/W CHOWCHILLA	AVENUE 24	ROAD 13 OVERHEAD	PLANNING STUDY - SHEET 1 OF 2
	ST1137	UPRR/SR 99 MERCED CONNECTION/W CHOWCHILLA	AVENUE 24	ROAD 13 OVERHEAD	PLANNING STUDY - SHEET 2 OF 2
	ST1130	UPRR/SR 99 MAIN LINE/W CHOWCHILLA	AVENUE 24	ROAD 15 OVERHEAD	PLANNING STUDY
	ST1131	UPRR/SR 99 MAIN LINE/W CHOWCHILLA	AVENUE 24	ROAD 16 OVERHEAD	PLANNING STUDY
	ST1132	UPRR/SR 99 MAIN LINE/W CHOWCHILLA	AVENUE 24	AVENUE 23½OVERHEAD	PLANNING STUDY
	ST1133	UPRR/SR 99 MERCED CONNECTION	AVENUE 24	AVENUE 25 OVERHEAD	PLANNING STUDY - SHEET 1 OF 2
	ST1134	UPRR/SR 99 WYE CONNECTION	AVENUE 24	AVENUE 25 OVERHEAD	PLANNING STUDY - SHEET 2 OF 2
	ST1135	UPRR/SR 99 WYE & MERCED CONNECTIONS	AVENUE 24	AVENUE 26 OVERHEAD	PLANNING STUDY
	ST1136	UPRR/SR 99 MERCED CONNECTION	AVENUE 24	CROSS ROAD OVERHEAD	PLANNING STUDY
	ST1139	UPRR/SR 99 MERCED DO - HYBRID & WYE CONNECTION	AVENUE 24	SANDY MUSH ROAD OVERHEAD	PLANNING STUDY
	ST1180	UPRR/SR 99 MERCED CONNECTION	AVENUE 21	G STREET OVERHEAD	PLANNING STUDY

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cisnerose

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY J. RENTERIA
CHECKED BY B. DOLAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
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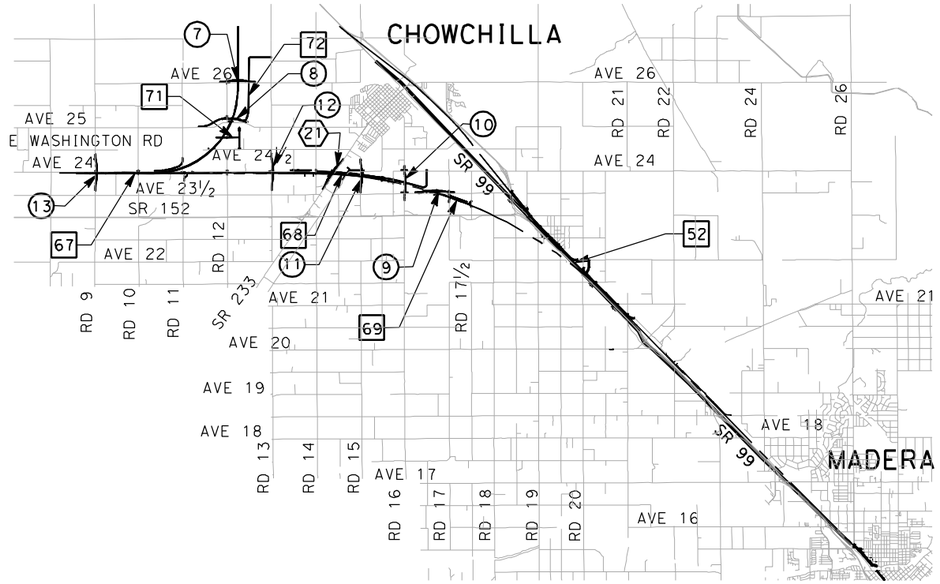
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 ALTERNATIVE
AVENUE 24
INDEX OF DRAWINGS
SHEET 1 OF 1

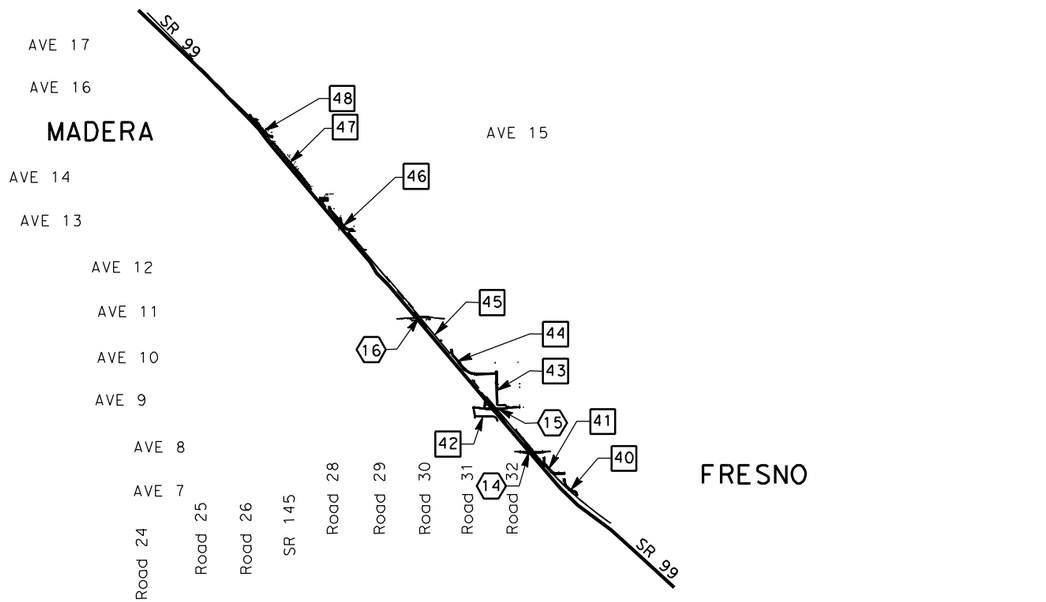
CONTRACT NO. HSR06-007
DRAWING NO. SB1201
SCALE No scale
SHEET NO. OF

LOCATION NO.	SHEET TITLE	STRUCTURE DRAWING NO.	ROADWAY DRAWING NO.
(6)	CROSS RD OVERHEAD	ST1127	CT5126-B - CT5128-B
(7)	AVENUE 26 OVERHEAD	ST1126	CT5123-B - CT5125-B
(8)	AVENUE 25 OVERHEAD	ST1125	CT5118-B - CT5122-B
(9)	AVENUE 23½ OVERHEAD	ST1124	CT5114-B - CT5117-B
(10)	ROAD 16 OVERHEAD	ST1123	CT5111-B - CT5113-B
(11)	ROAD 15 OVERHEAD	ST1122	CT5108-B - CT5110-B
(12)	ROAD 13 OVERHEAD	ST1138	CT5104-B - CT5107-B
(13)	HEMLOCK RD (ROAD 9) OVERHEAD	ST1120	CT5100-B - CT5103-B
(64)	G STREET OVERHEAD	ST1180	CT0149-A
⟨14⟩	AVENUE 8 - OVERCROSSING	-	-
⟨15⟩	AVENUE 9 - INTERCHANGE	-	-
⟨16⟩	AVENUE 11 - OVERCROSSING	-	-
⟨19⟩	GRADE SEPARATION - LE GRAND INTERCHANGE	-	-
⟨20⟩	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	-	-
⟨21⟩	GRADE SEPARATION - ROBERTSON BLVD (SR233)	-	-
⟨67⟩	SR 99 SOUTHBOUND OVERHEAD	-	-

VICINITY MAP 1



VICINITY MAP 2



VICINITY MAP 3

9000 0 9000 18000
GRAPHIC SCALE

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

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPPR/SR 99 ALTERNATIVE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. SB1202
SCALE No scale
SHEET NO. OF

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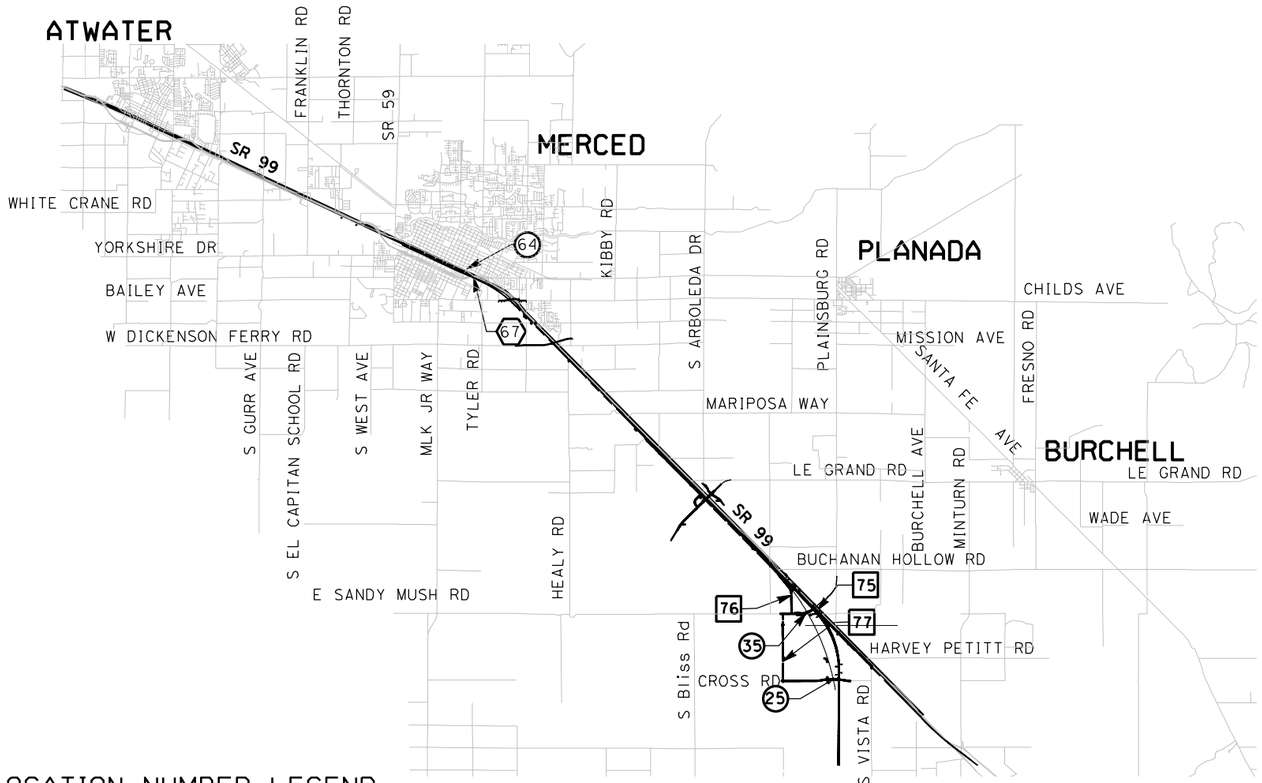
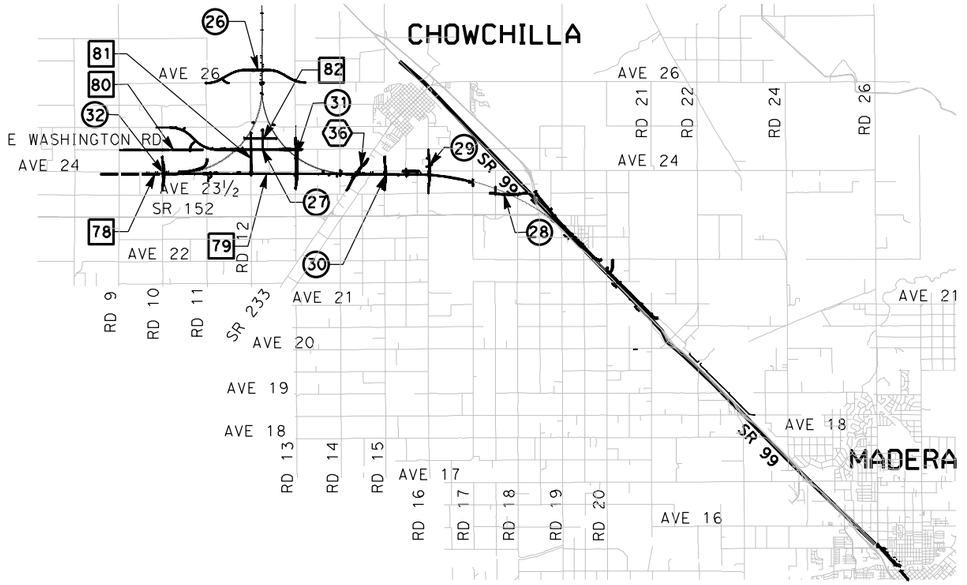
LOCATION NO.	SHEET TITLE	STRUCTURE DRAWING NO.	ROADWAY DRAWING NO.
(25)	CROSS ROAD OVERHEAD	ST1136	CT5179-B - CT5181-B
(26)	AVENUE 26 OVERHEAD	ST1135	CT5167-B - CT5178-B
(27)	AVENUE 25 OVERHEAD	ST1133 & ST1134	CT5150-B - CT5166-B
(28)	AVENUE 23½ OVERHEAD	ST1132	CT5146-B - CT5149-B
(29)	ROAD 16 OVERHEAD	ST1131	CT5142-B - CT5145-B
(30)	ROAD 15 OVERHEAD	ST1130	CT5138-B - CT5141-B
(31)	ROAD 13 OVERHEAD	ST1129 & ST1137	CT5132-B - CT5137-B
(32)	ROAD 10 OVERHEAD	ST1128	CT5129-B - CT5131-B
(35)	SANDY MUSH ROAD OVERHEAD	ST1139	CT7133-B - CT7136-B
(64)	G STREET OVERHEAD	ST1180	CT0149-A
(36)	GRADE SEPARATION - ROBERTSON BLVD (SR 233)	-	-



VICINITY MAP 1



VICINITY MAP 2

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

9000 0 9000 18000

GRAPHIC SCALE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY J. ZANDIAN
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPPR/SR 99 ALTERNATIVE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. SB1203
SCALE No scale
SHEET NO. OF

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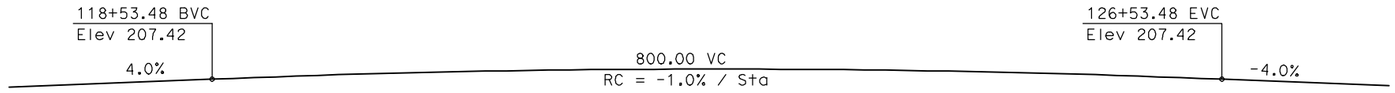
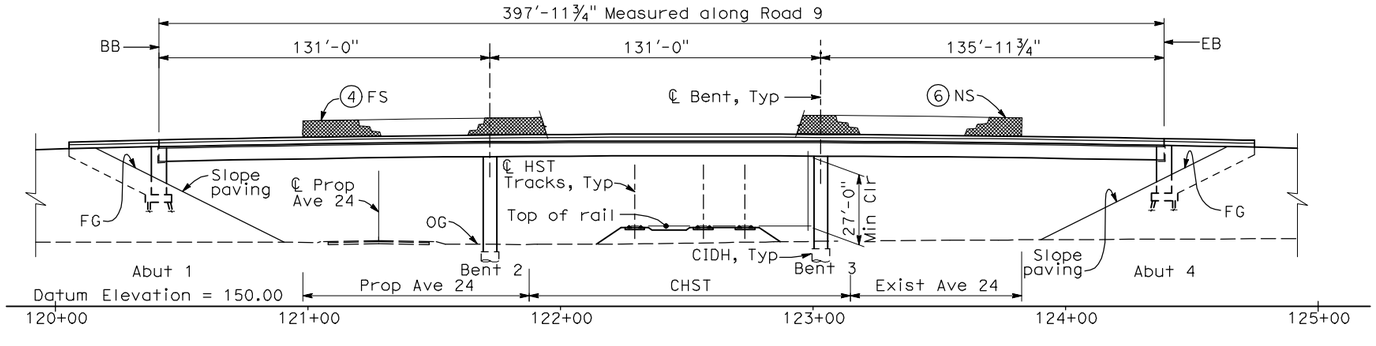
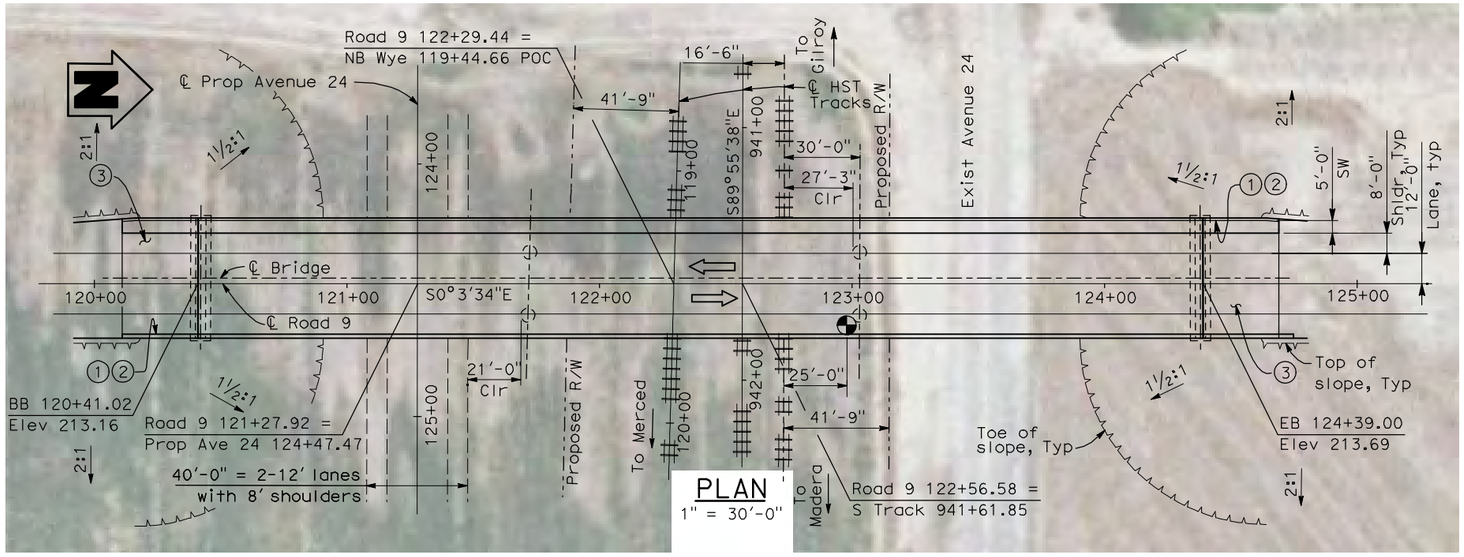
cisnerose



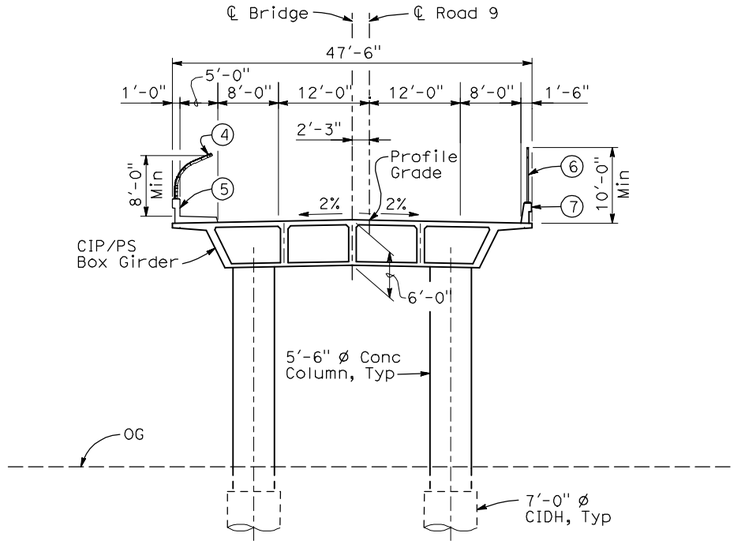
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

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

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	397'-11¾"
WIDTH	=	47'-6"
AREA	=	18,904 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 13

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY P. ARIGO
CHECKED BY T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE/WYE CONNECTION
AVENUE 24
ROAD 9 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1120
SCALE As shown
SHEET NO. OF

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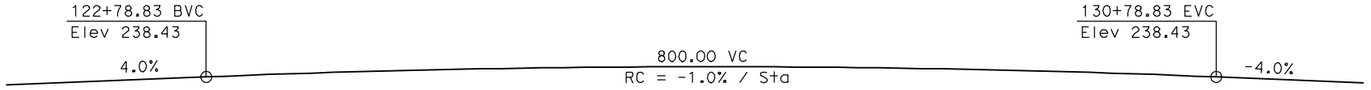
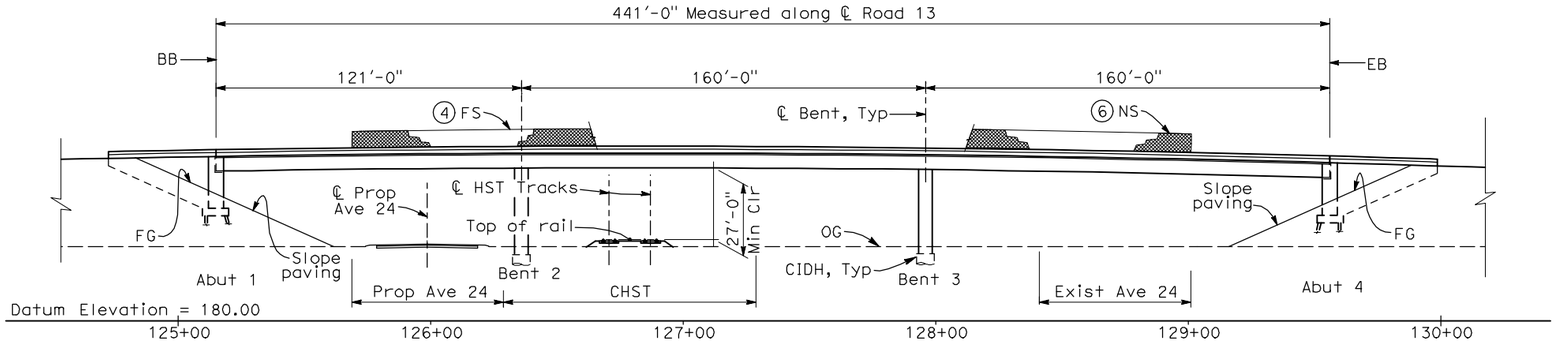
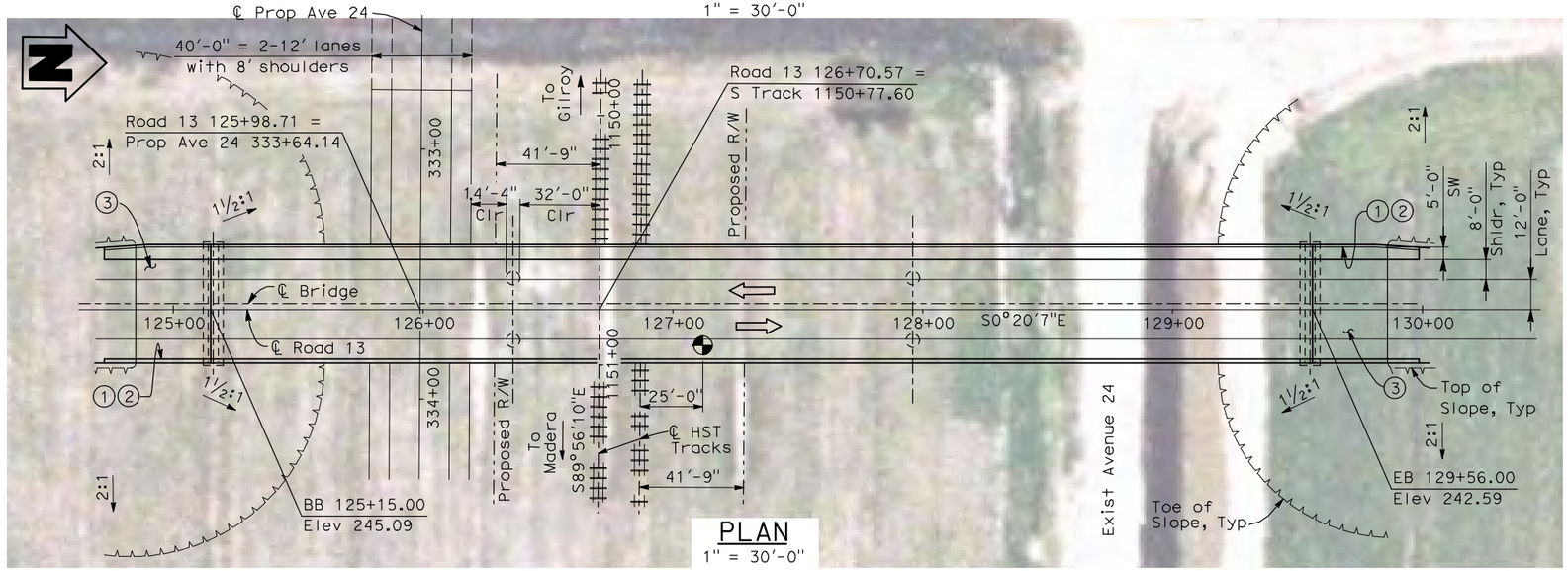


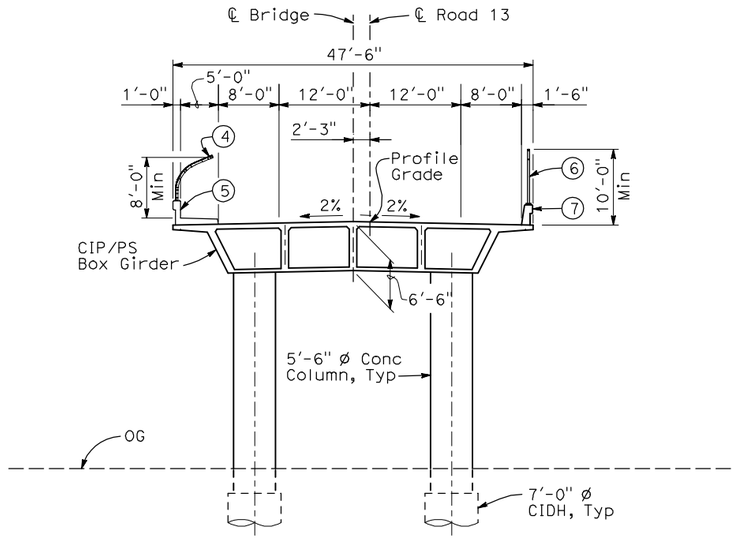
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 13 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

◓ Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-6"
LENGTH	=	441'-0"
WIDTH	=	47'-6"
AREA	=	21,000 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 12

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY P. ARIGO
CHECKED BY T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAIN LINE
AVENUE 24
ROAD 13 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1138
SCALE As shown
SHEET NO. OF

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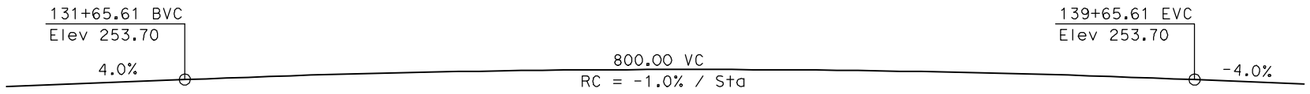
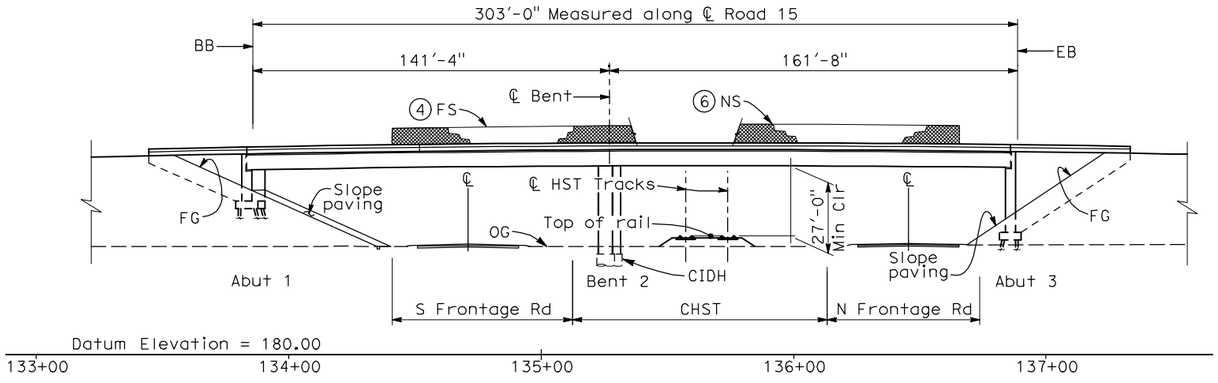
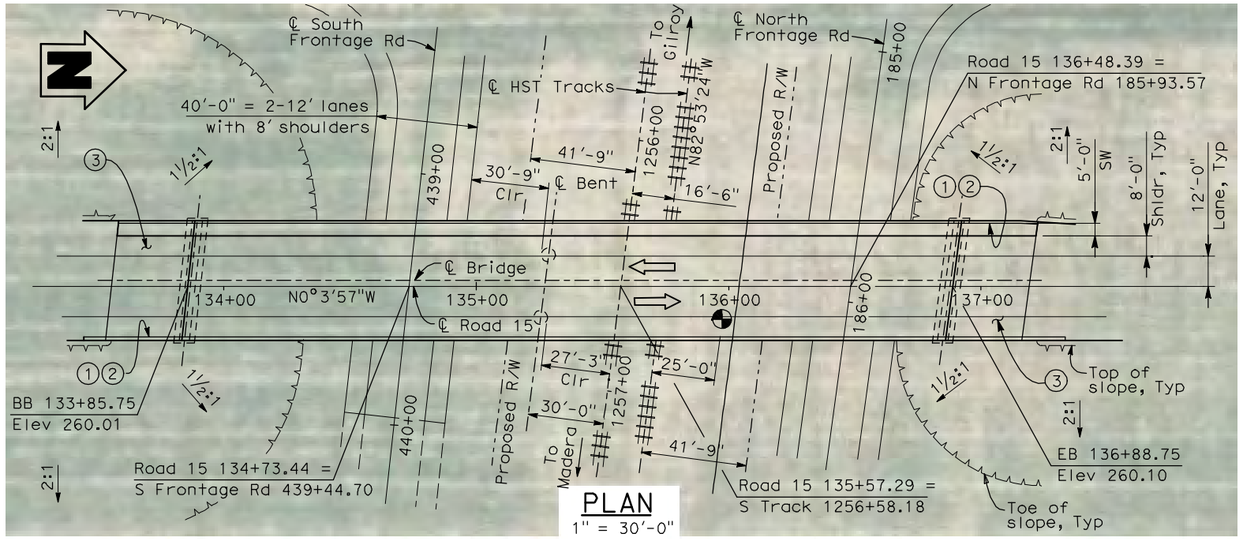


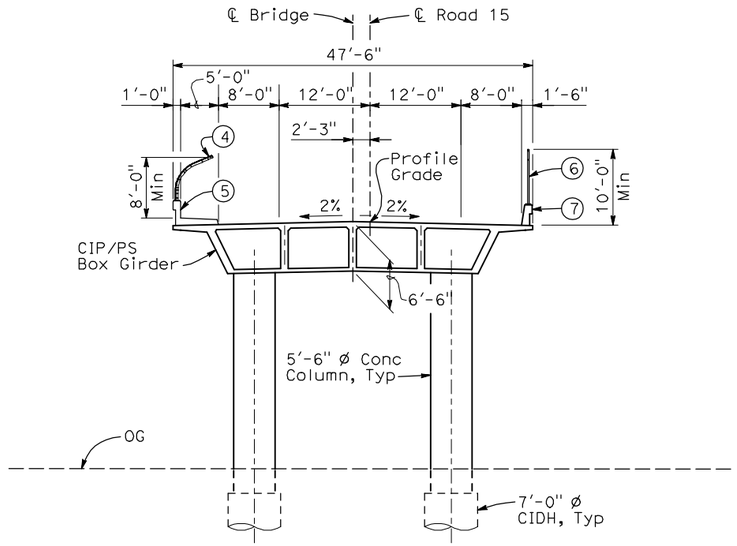
PROFILE GRADE
NTS



ELEVATION
1" = 10'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 15 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE _____

BRIDGE REMOVAL = _____

STRUCTURE DEPTH = 6'-6"

LENGTH = 303'-0 "

WIDTH = 47'-6"

AREA = 14,390 ft²

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

TOTAL COST = _____

LOCATION 11

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY P. ARIGO
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

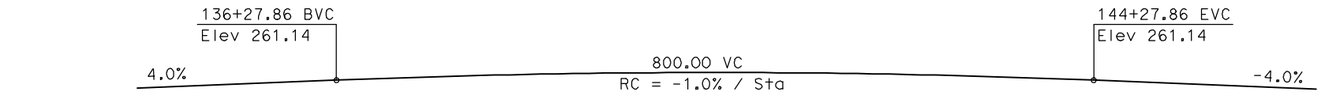
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

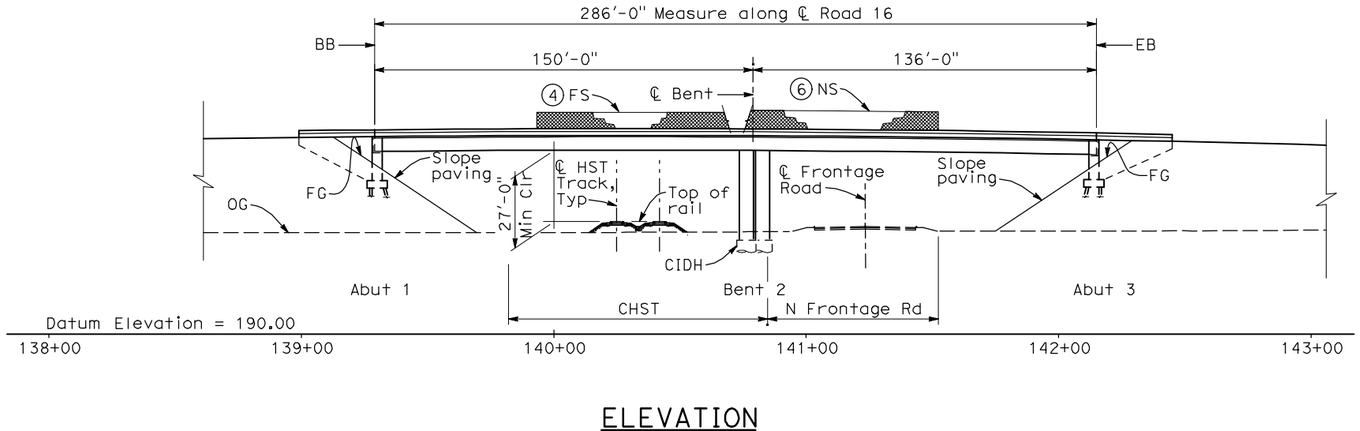
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
ROAD 15 OVERHEAD
PLANNING STUDY

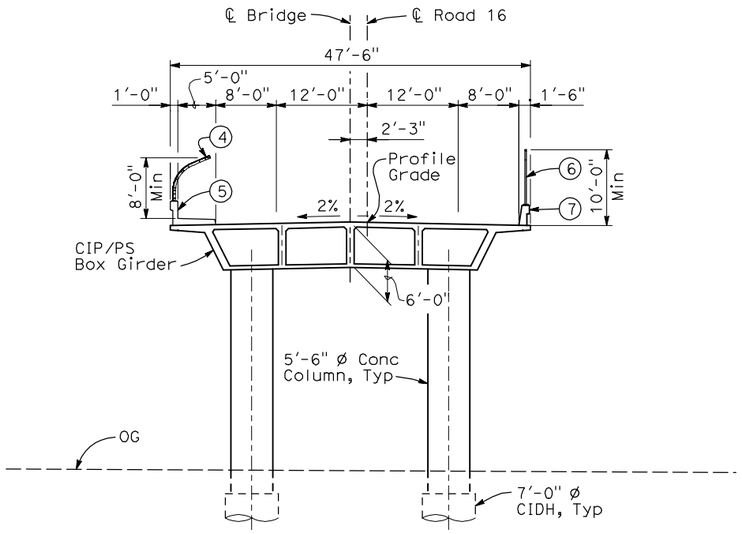
CONTRACT NO. HSR06-007
DRAWING NO. ST1122
SCALE As shown
SHEET NO. OF

4/30/2011 5:53:18 PM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\VM-MF-ST-OH_Road 15-Loc 11.dgn
DoIanR



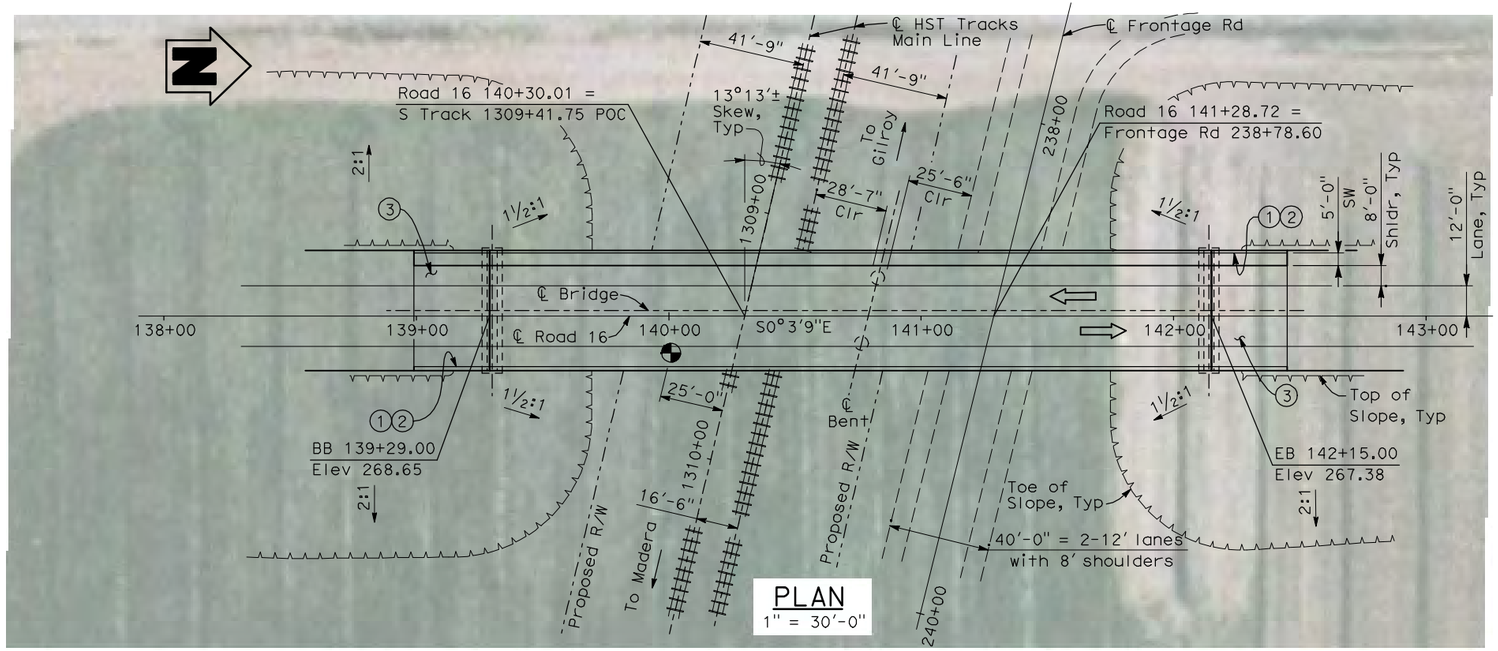
PROFILE GRADE
NTS





TYPICAL SECTION
1" = 10'-0"

ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"

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

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

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	286'-0"
WIDTH	=	47'-6"
AREA	=	13,600 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 10

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO
UPRR/SR99 MAIN LINE/WYE CONNECTION
AVENUE 24
ROAD 16 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1123
SCALE As shown
SHEET NO. OF

I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\W-MF-ST-OH_Road 16-Loc 10.dgn
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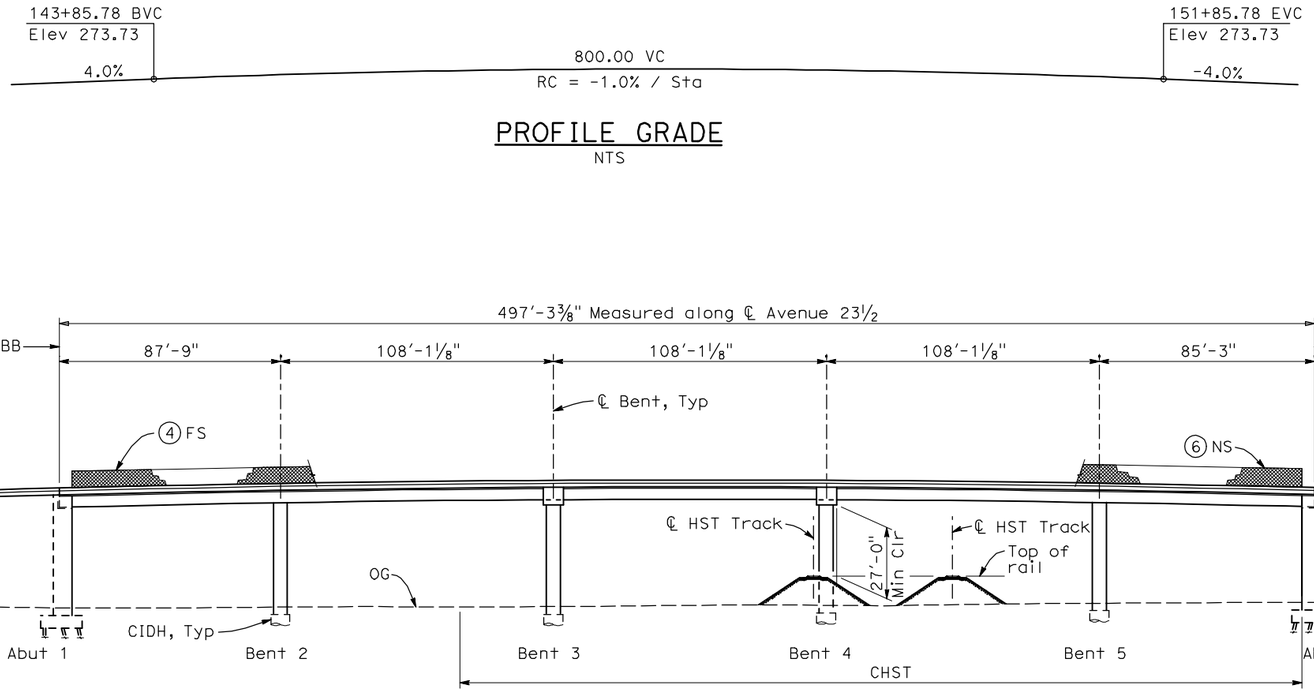
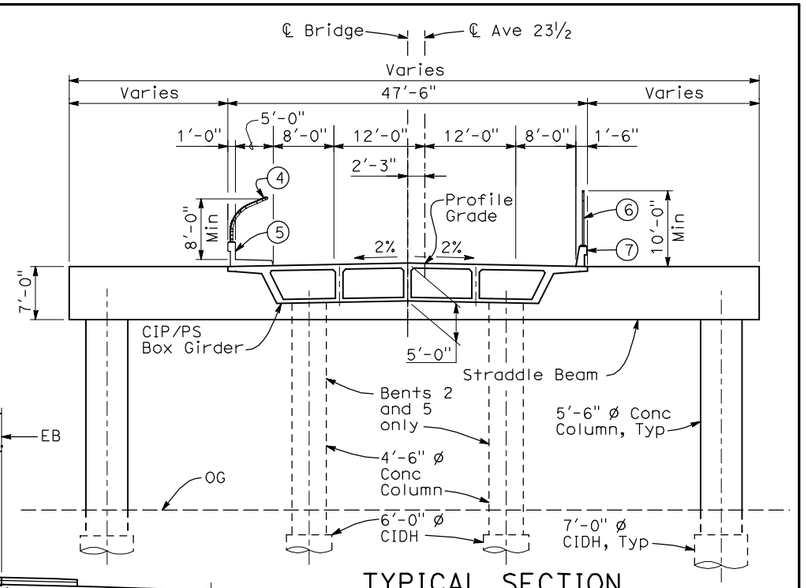
DolanR

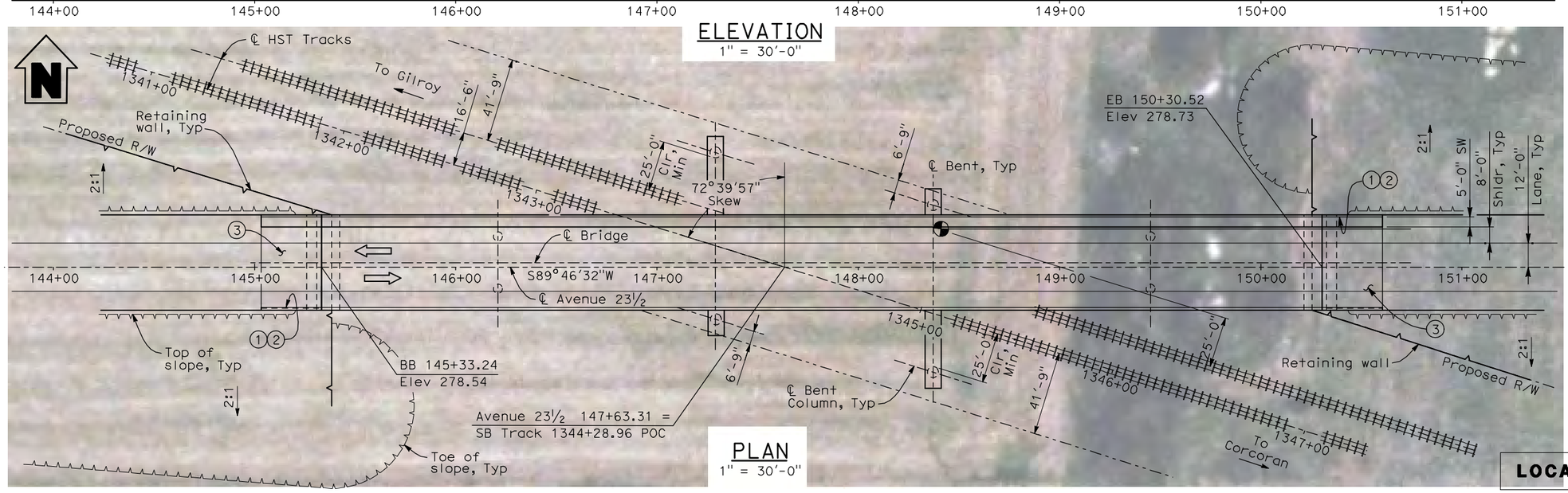


PROFILE GRADE
NTS



TYPICAL SECTION
1"=10'-0"

Datum elevation = 190.00



ELEVATION
1" = 30'-0"

PLAN
1" = 30'-0"

NOTES:
1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 23½ 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	=	497'-3⅜"
Width	=	47'-6"
Area	=	23,620 ft²
Cost/ □ft including 10% Mobilization & 25% Contingency	=	
Total Cost	=	

LOCATION 9

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY H. WANG
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
AVENUE 23½ OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1124
SCALE As shown
SHEET NO. OF

I:\CHSR\6002962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\M2\15% cost reduction submittal\Grade Structure\W-MF-ST-OH_Ave 23.5-Loc 9.dgn
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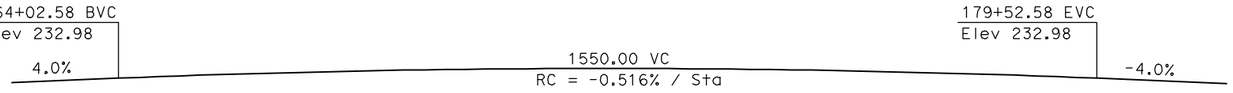
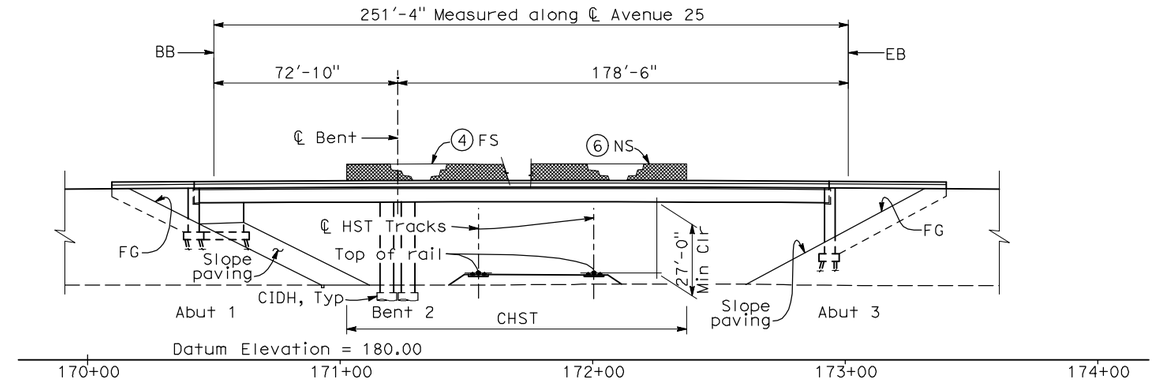
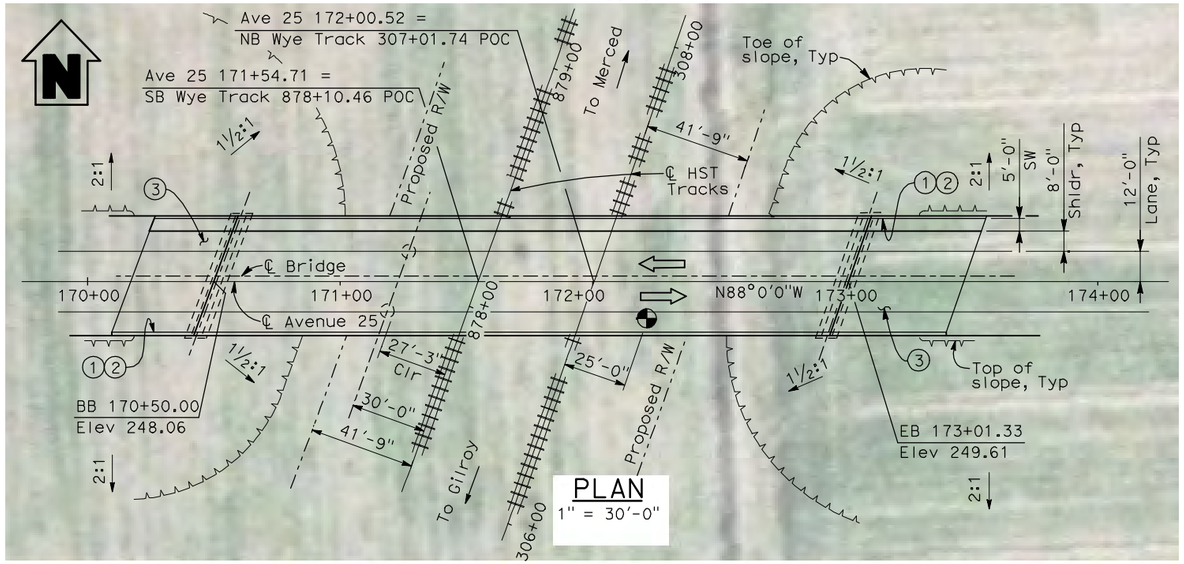
DolanR



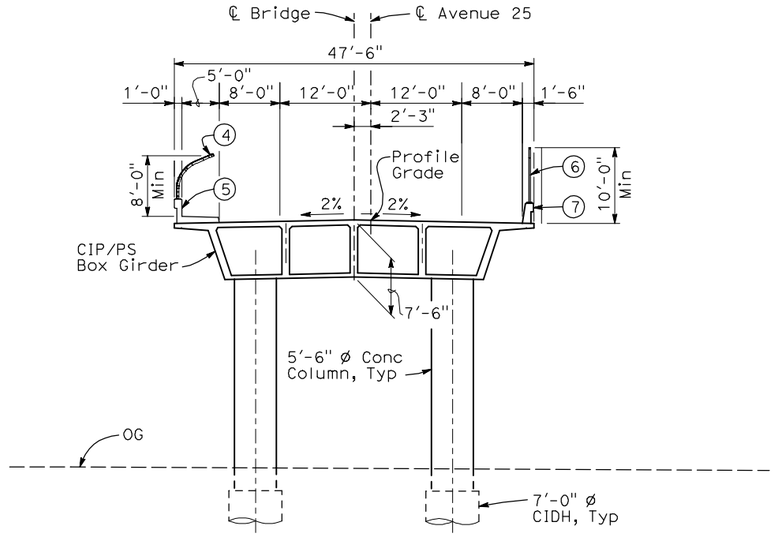
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 25 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	=	7'-6"
LENGTH	=	251'-4"
WIDTH	=	47'-6"
AREA	=	11,950 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 8

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY P. ARIGO
CHECKED BY T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE CONNECTION
AVENUE 24
AVENUE 25 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1125
SCALE As shown
SHEET NO. OF

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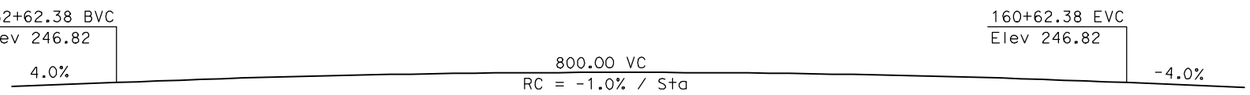
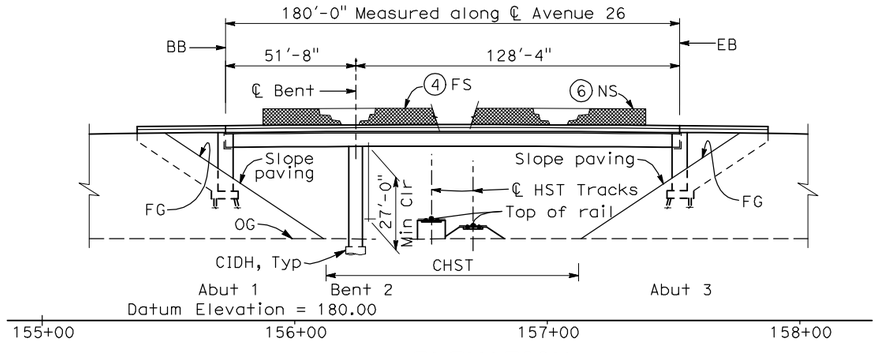
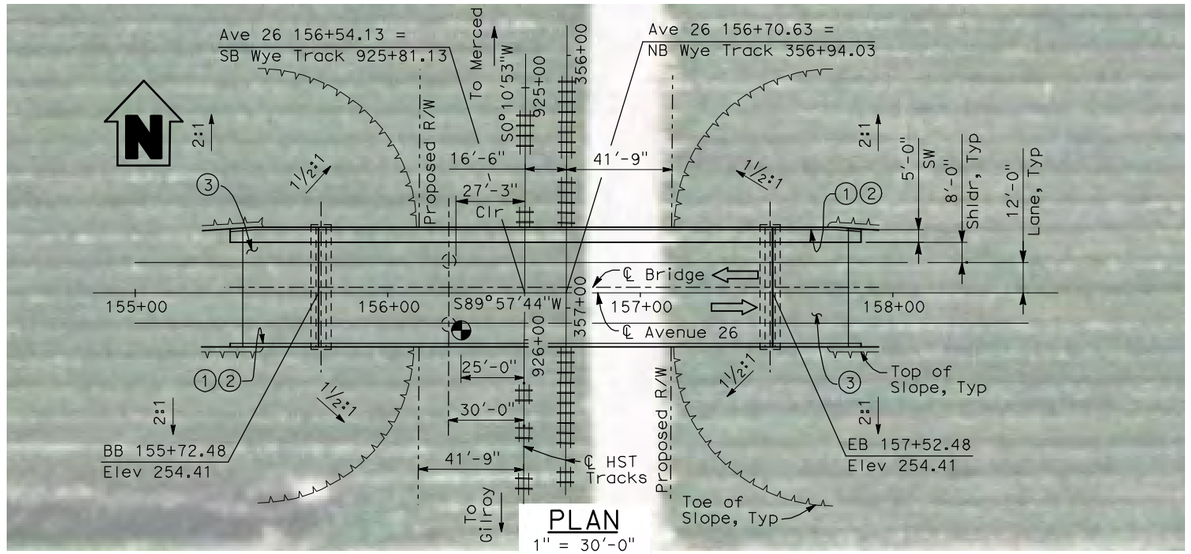
DolanR



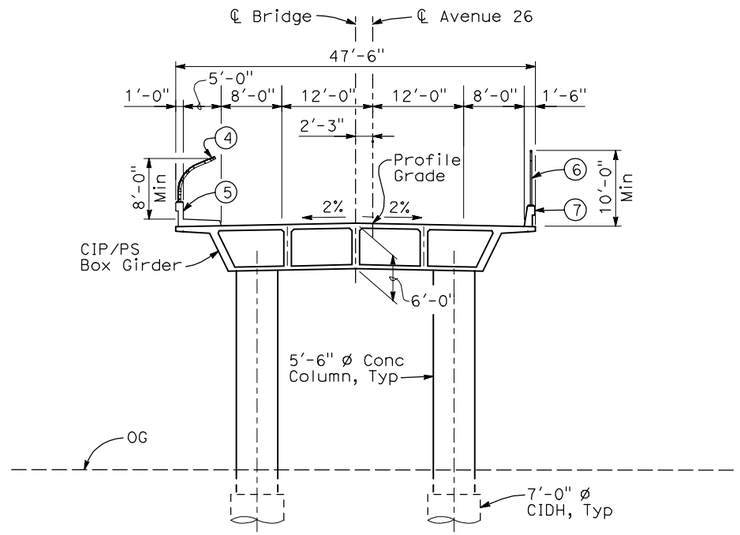
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

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

LEGEND:

⇦ Direction of traffic

◔ Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	180'-0 "
WIDTH	=	47'-6"
AREA	=	8,550 ft^2
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 7

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY P. ARIGO
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

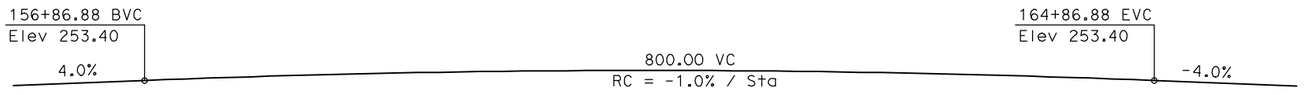
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

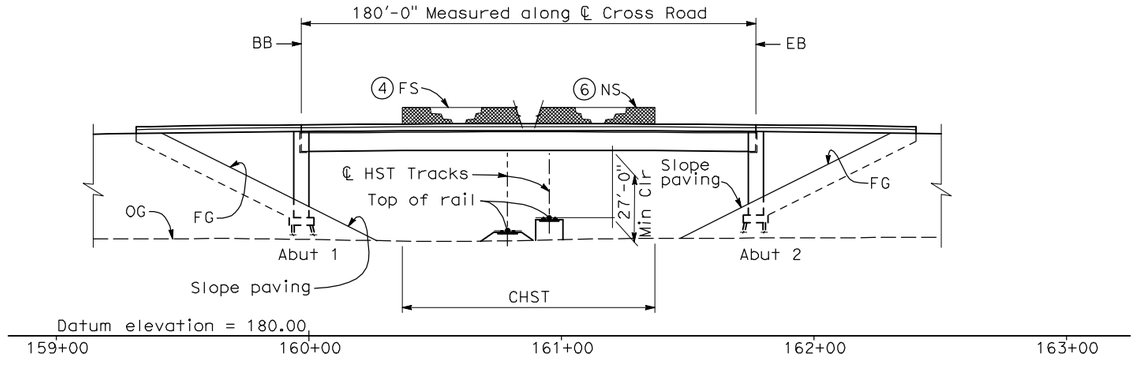
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE CONNECTION
AVENUE 24
AVENUE 26 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1126
SCALE As shown
SHEET NO. OF

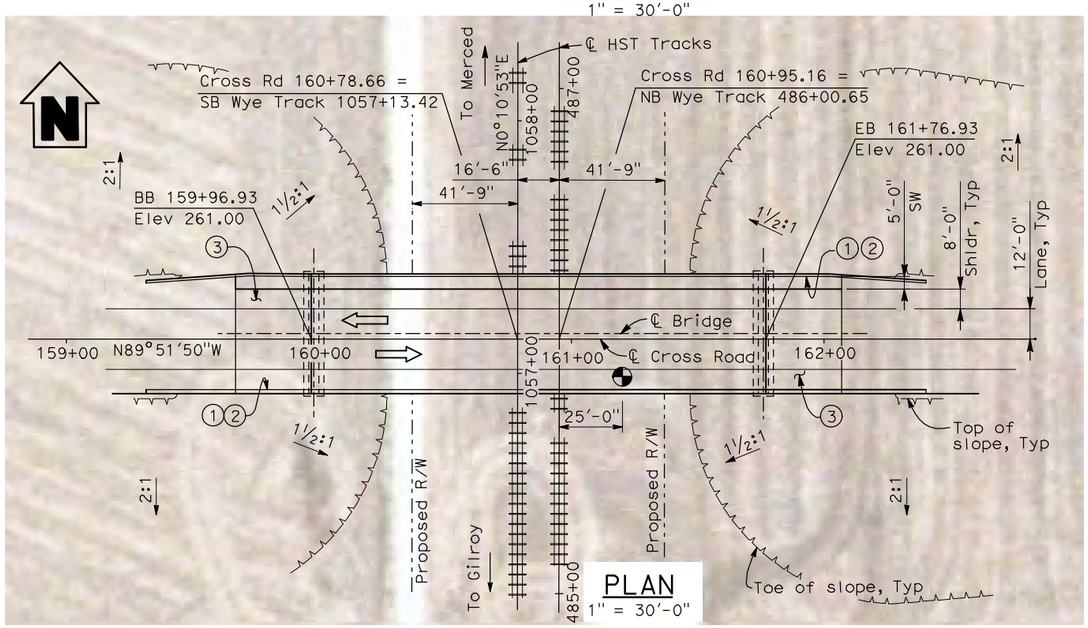
4/30/2011 5:54:56 PM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\VM-MF-ST-OH_Ave 26-Loc 7.dgn
DolanR



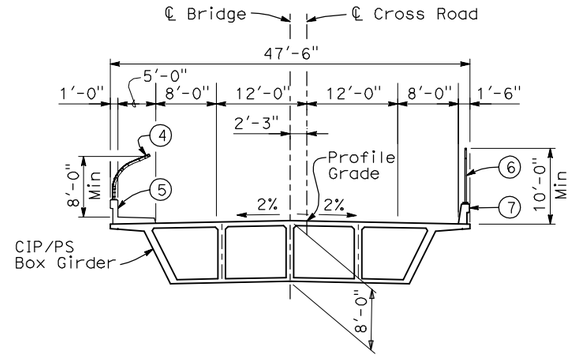
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Cross 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	=	8'-0"
LENGTH	=	180'-0"
WIDTH	=	47'-6"
AREA	=	8,550 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 6

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY P. ARIGO
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

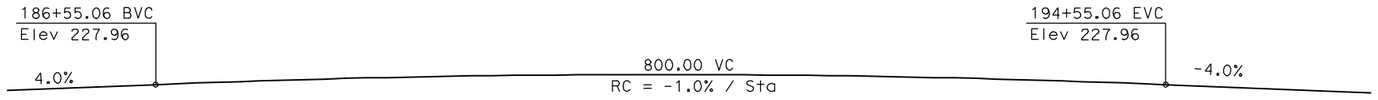
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

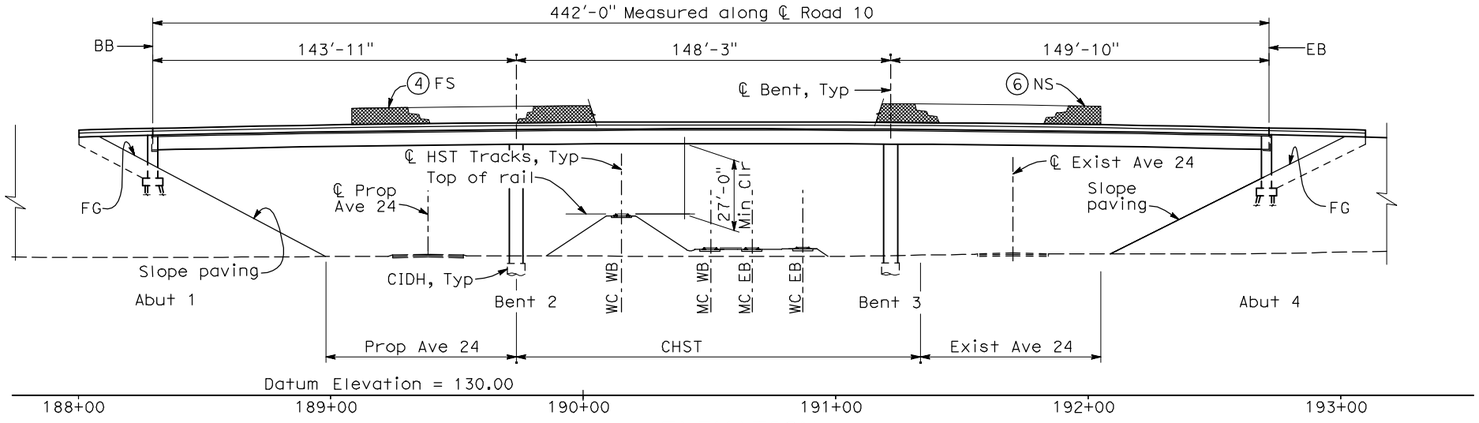
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE CONNECTION
AVENUE 24
CROSS ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1127
SCALE As shown
SHEET NO. OF

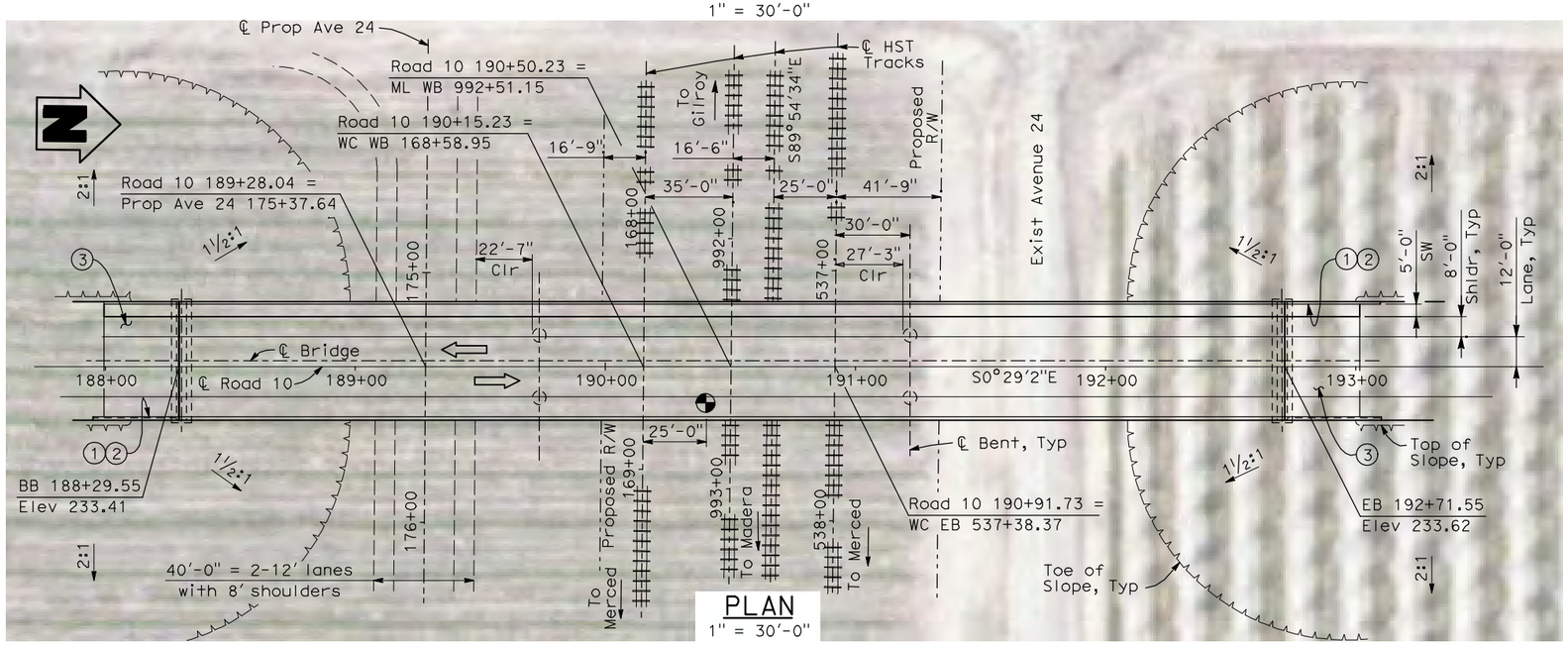
4/30/2011 5:55:23 PM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\MF-ST-OH_Cross Road-Loc 6.dgn
DolanR



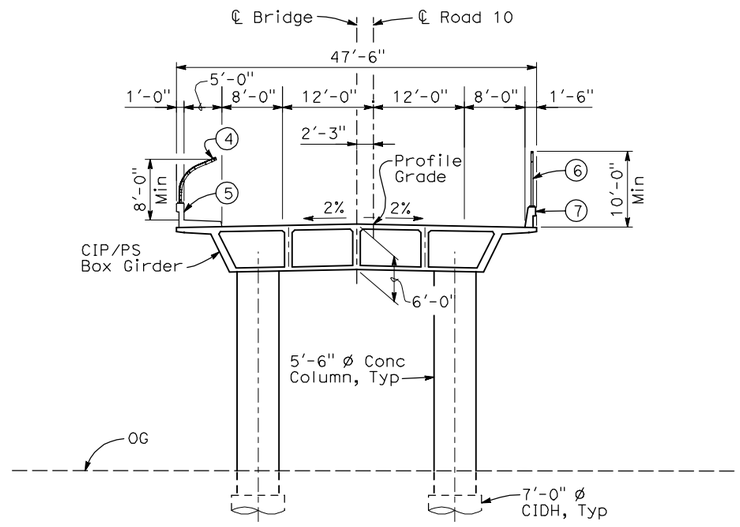
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 10 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND/ABBREVIATIONS:

⇦ Direction of traffic

⊕ Point of minimum vertical clearance

ML = Main Line
WC = Wye Connection

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	442'-0"
WIDTH	=	47'-6"
AREA	=	21,000 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 32

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY P. ARIGO
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

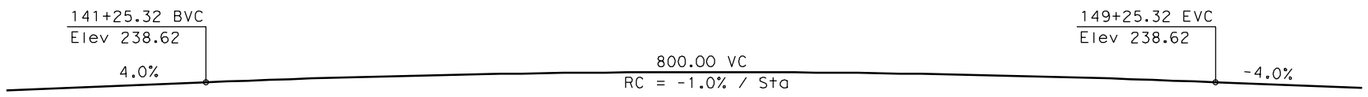
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

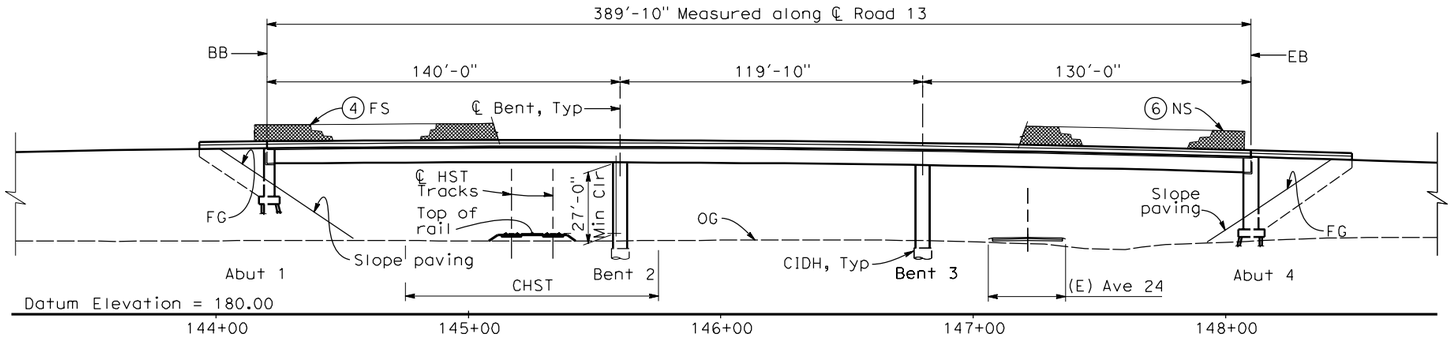
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAIN LINE/W CHOWCHILLA
AVENUE 24
ROAD 10 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1128
SCALE As shown
SHEET NO. OF

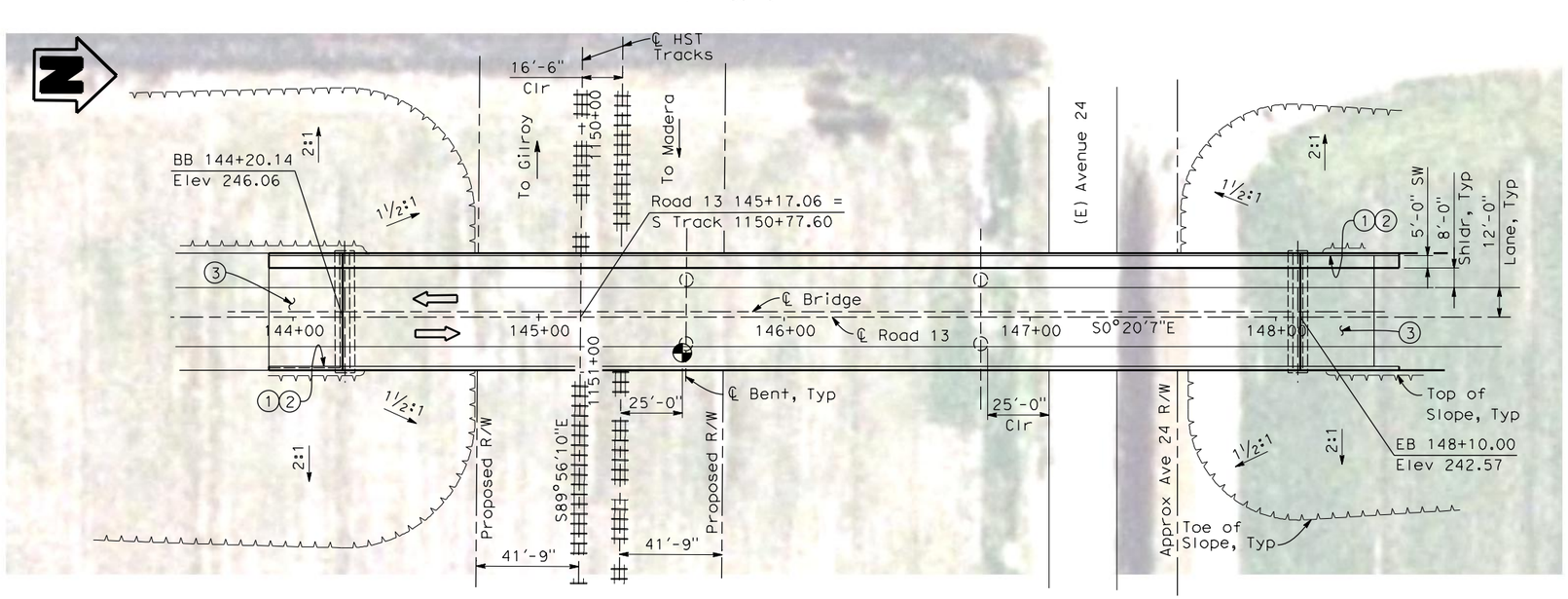
4/30/2011 5:55:57 PM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\VW-MF-ST-OH_Road 10_W Chow-Loc 32.dgn
DolanR



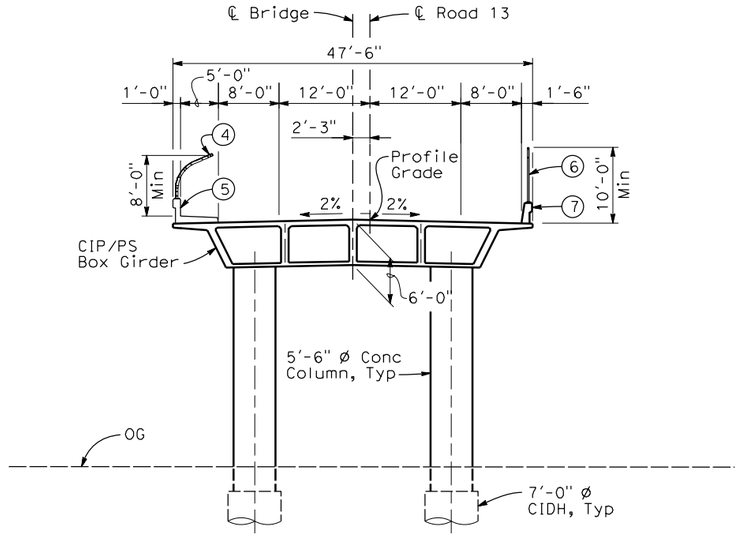
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 13 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	389'-10"
WIDTH	=	47'-6"
AREA	=	18,500 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 31

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

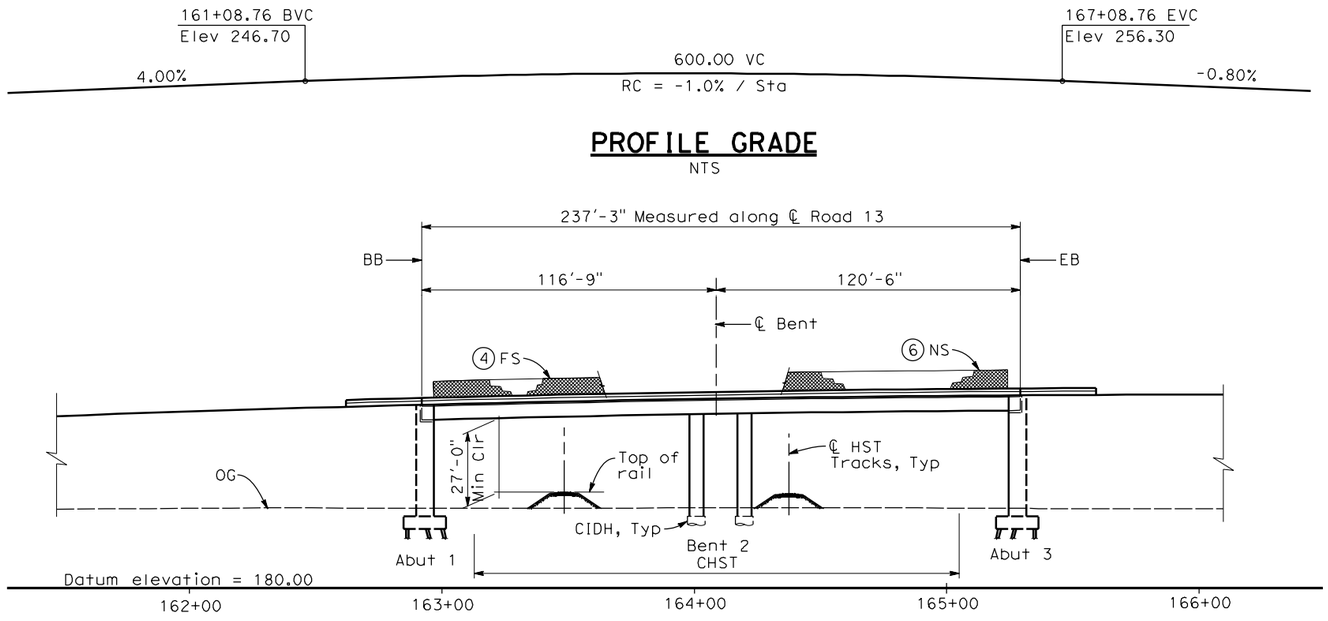
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

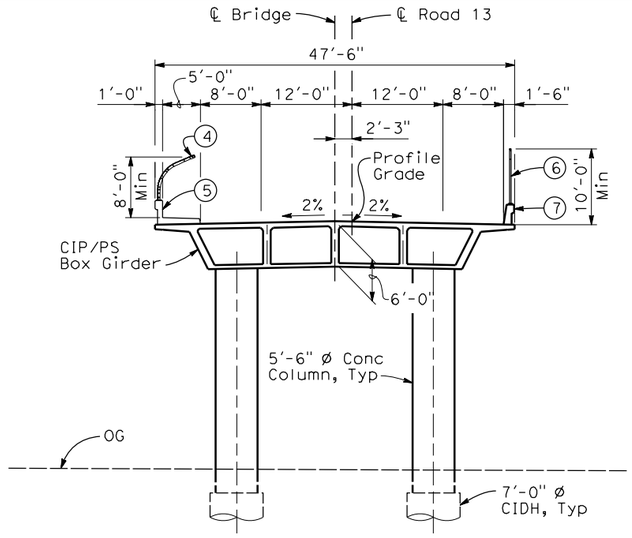
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAIN LINE/W CHOWCHILLA
AVENUE 24
ROAD 13 OVERHEAD
PLANNING STUDY - SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. ST1129
SCALE As shown
SHEET NO. OF

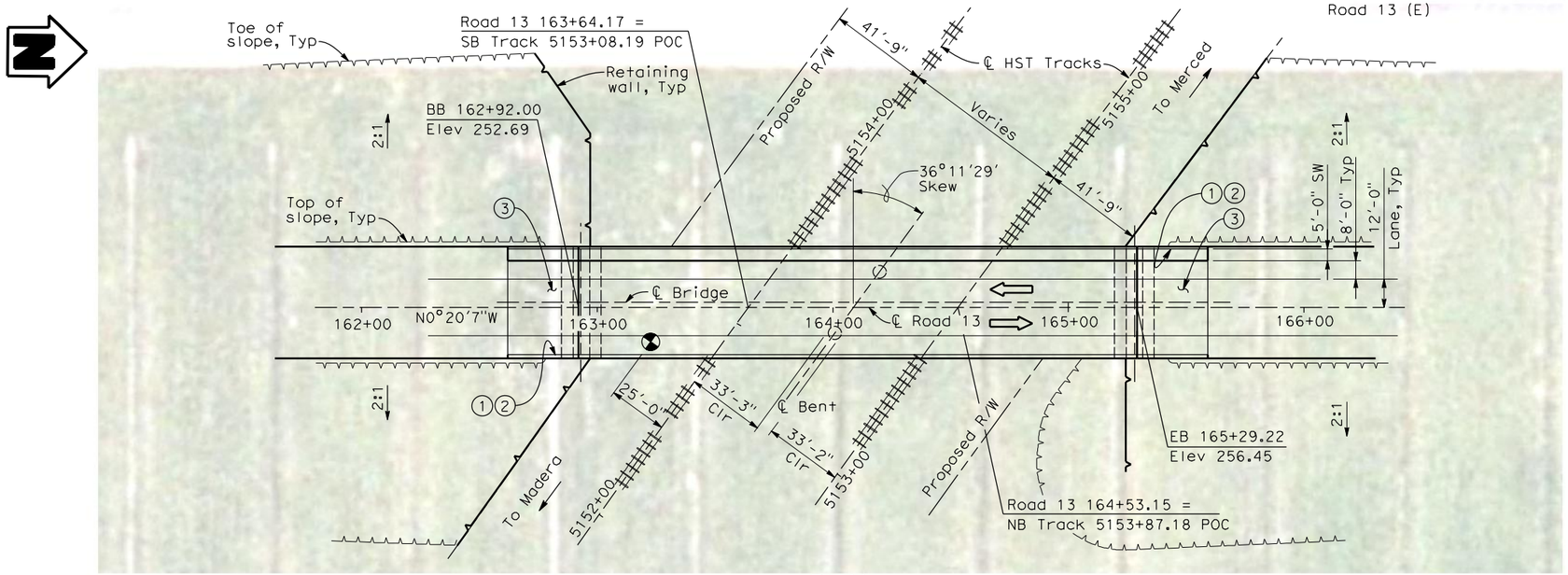
3/30/2012 6:12:38 PM \\usscrlfp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Struct\Sheet\15%_Grade Structures_Revisions\W-WF-ST-OH_Road 13WChow-Loc 31.dgn
cisneros



PROFILE GRADE
NTS



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. WW-XX"
2. Paint "Road 13 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

◓ Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	237'-3"
WIDTH	=	47'-6"
AREA	=	11,300 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 31

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

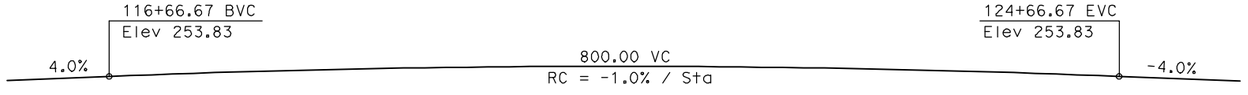
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

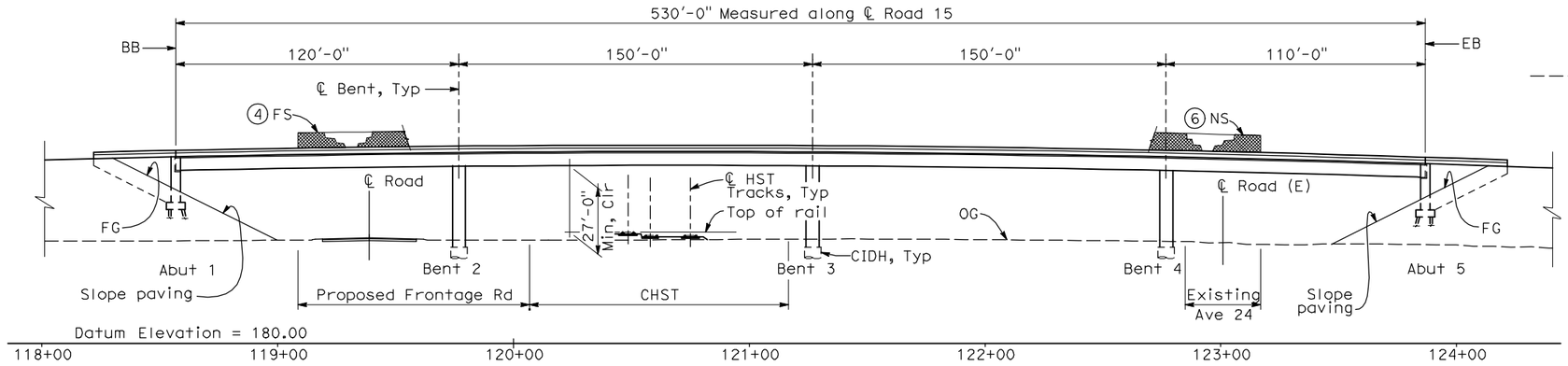
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION - W CHOWCHILLA AVENUE 24
ROAD 13 OVERHEAD
PLANNING STUDY - SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. ST1137
SCALE As shown
SHEET NO. OF

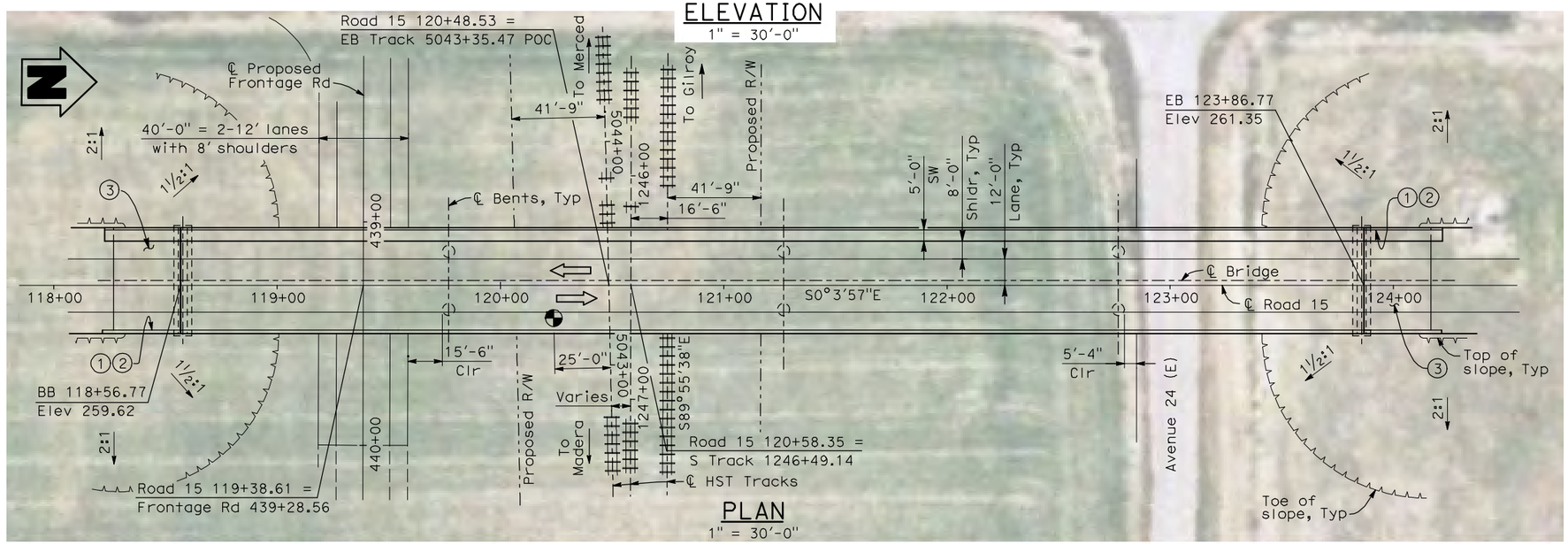
cisneros 3/30/2012 6:15:27 PM \\usscr1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Struct\Sheet\15%_Grade Structures_Revisions\W-WF-ST-OH_Road 13ML_MCDO-Loc 31.dgn



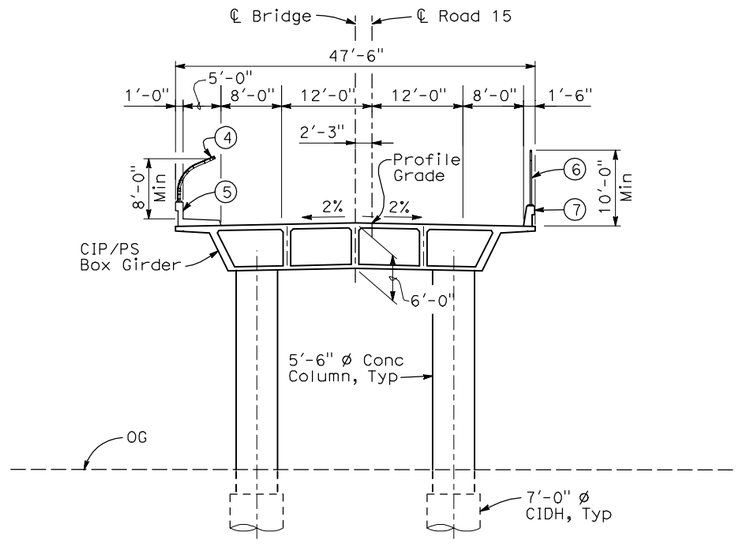
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 15 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	530'-0"
WIDTH	=	47'-6"
AREA	=	25,200 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 30

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: H. LEE
DRAWN BY: P. ARIGO
CHECKED BY: T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE/W CHOWCHILLA
AVENUE 24
ROAD 15 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1130
SCALE As shown
SHEET NO. OF

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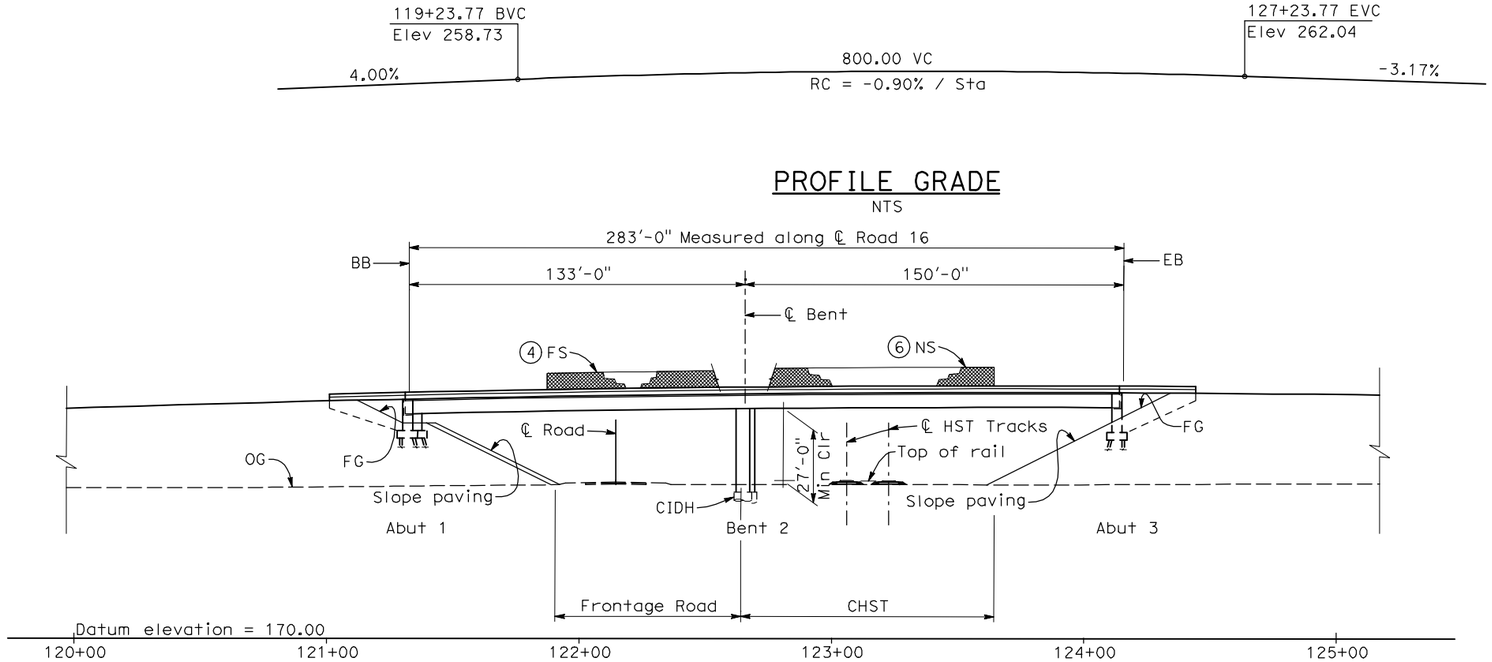
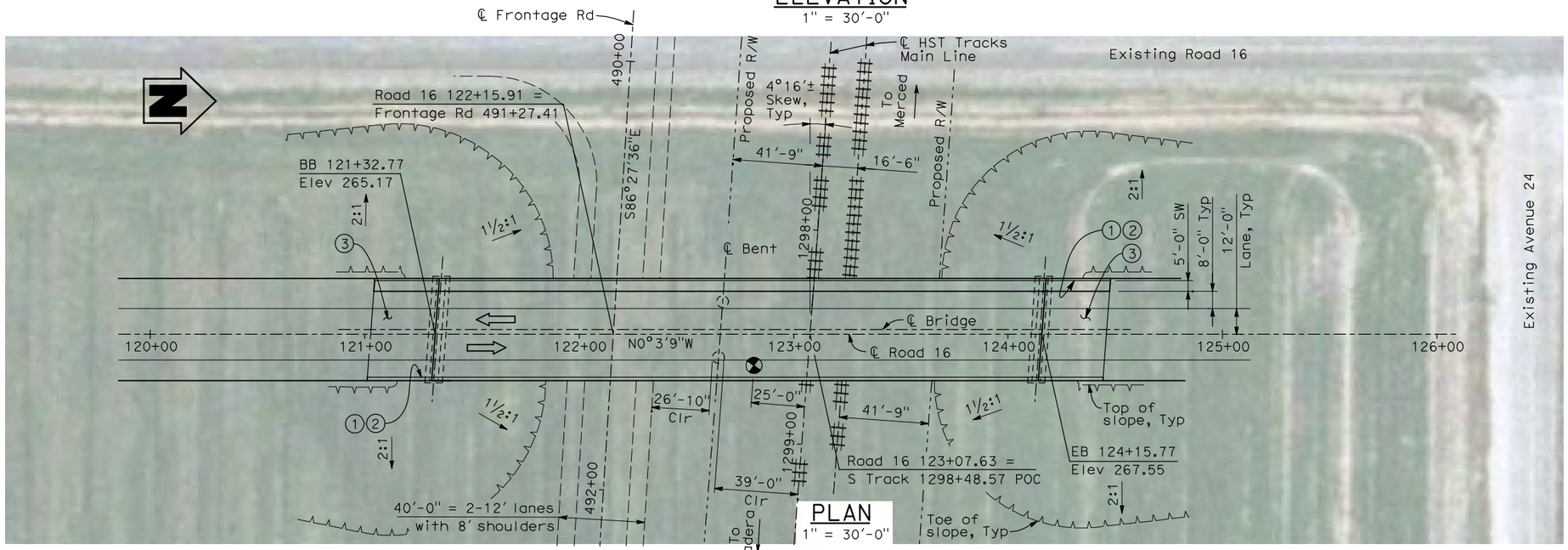
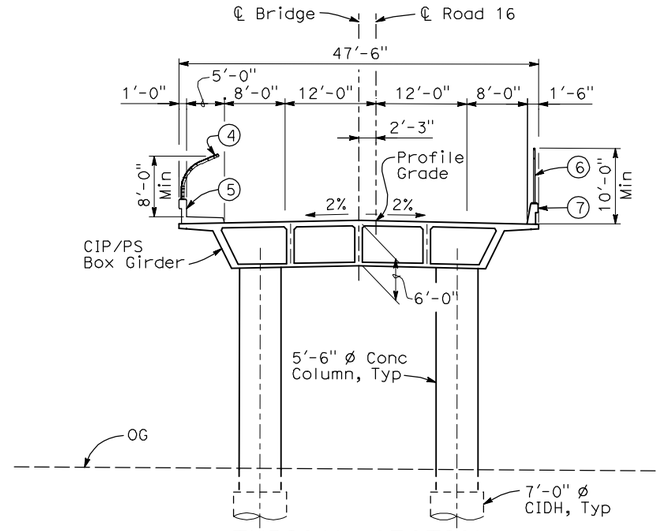


PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. WW-WW"
2. Paint "Road 16 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	283'-0"
WIDTH	=	47'-6"
AREA	=	13,450 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 29

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

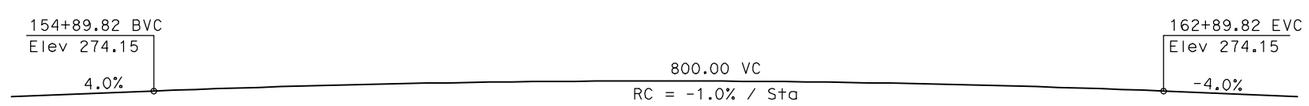
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

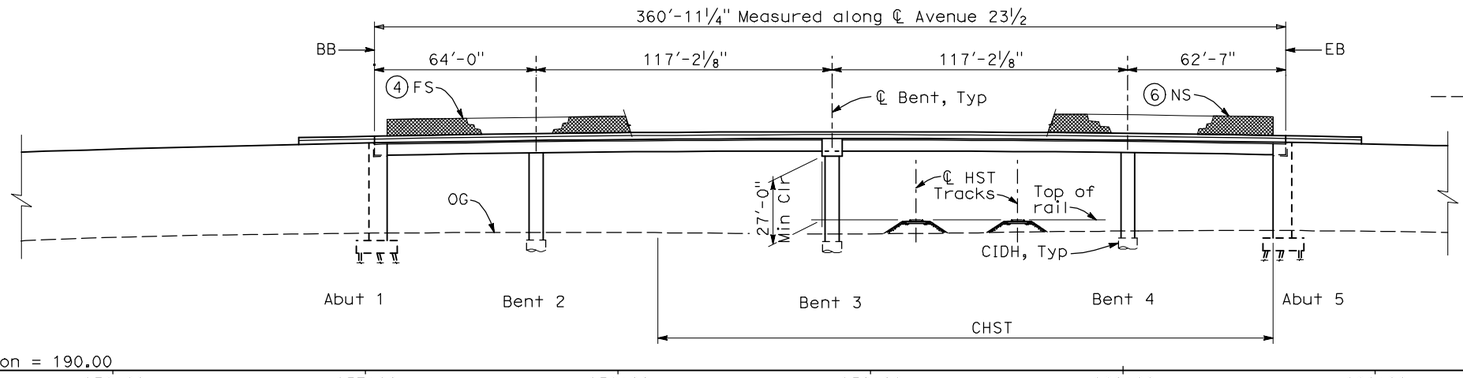
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE/W CHOWCHILLA
AVENUE 24
ROAD 16 OVERHEAD
PLANNING STUDY

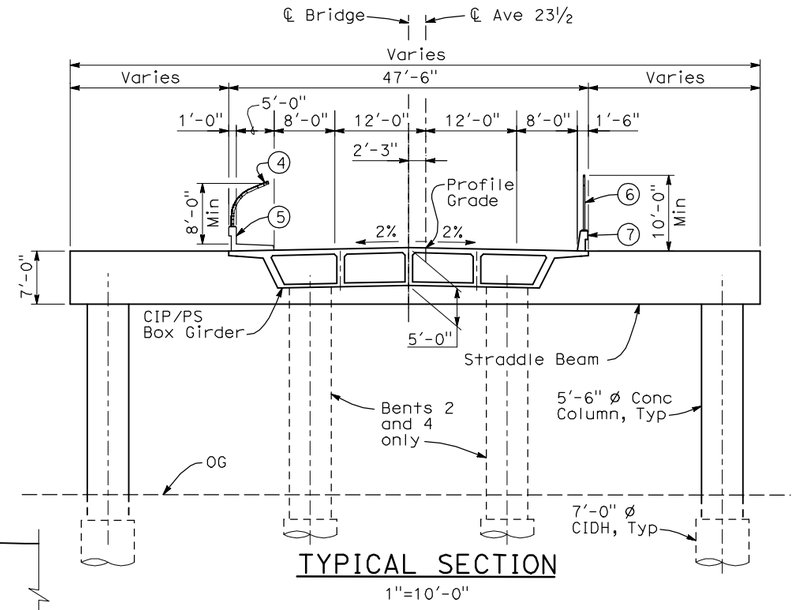
CONTRACT NO. HSR06-007
DRAWING NO. ST1131
SCALE As shown
SHEET NO. OF

I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\W-MF-ST-OH_Road 16ML_WChow-Loc 29.dgn 4/30/2011 5:58:32 PM DolanR

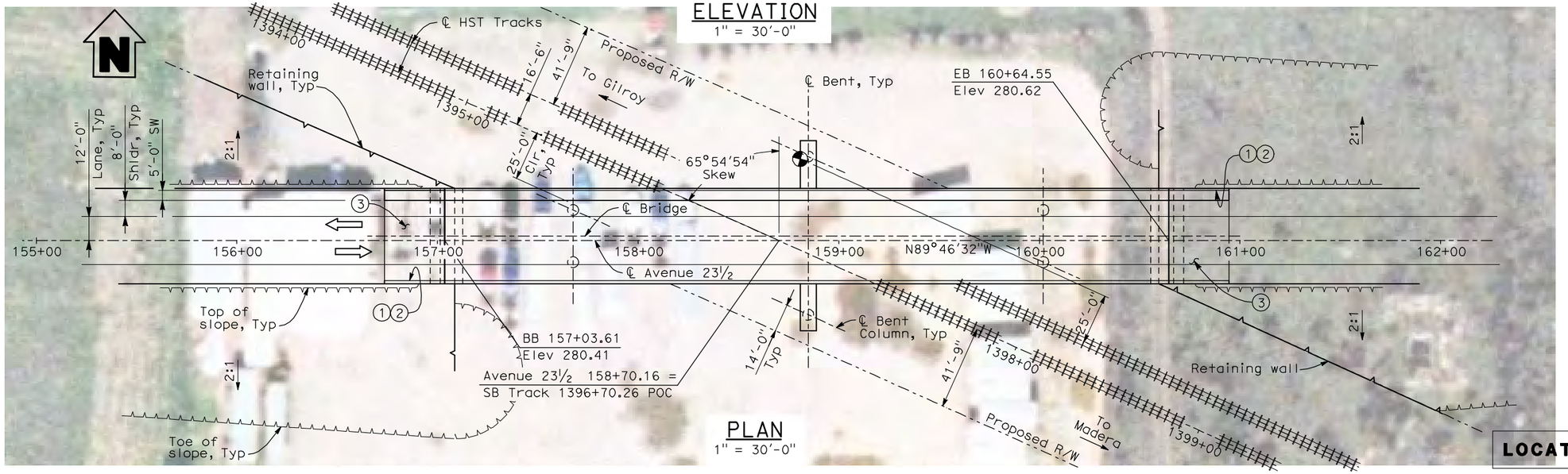


PROFILE GRADE
NTS





TYPICAL SECTION
1"=10'-0"



ELEVATION
1" = 30'-0"

PLAN
1" = 30'-0"

LOCATION 28

30 0 30 60
1"=30'

NOTES:
1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 23½ 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	=	360'-11¼"
Width	=	47'-6"
Area	=	17,150 ft²
Cost/ □ft including 10% Mobilization & 25% Contingency	=	
Total Cost	=	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY H. WANG
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE/W CHOWCHILLA
AVENUE 24
AVENUE 23½ OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1132
SCALE As shown
SHEET NO. OF

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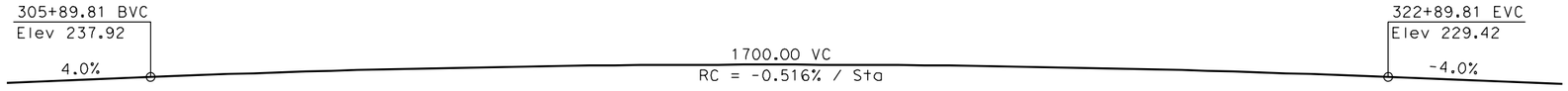
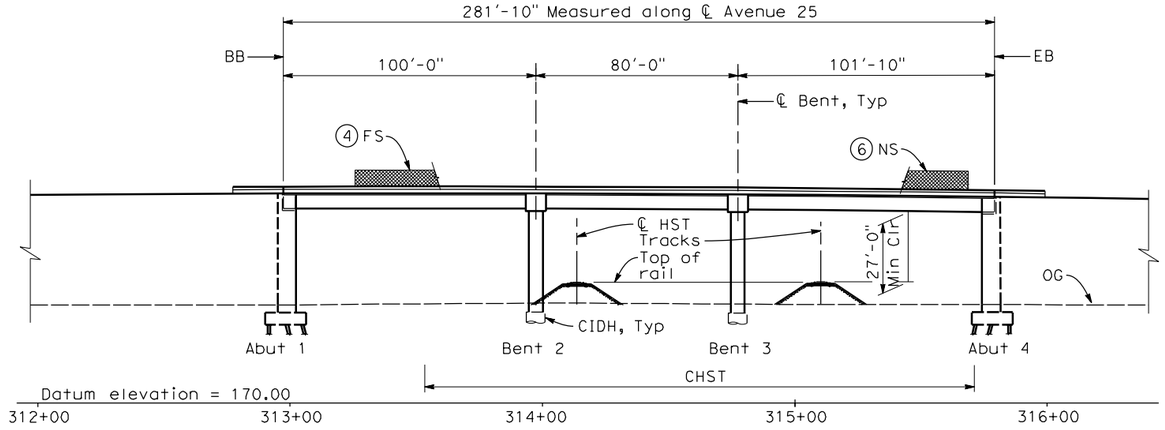
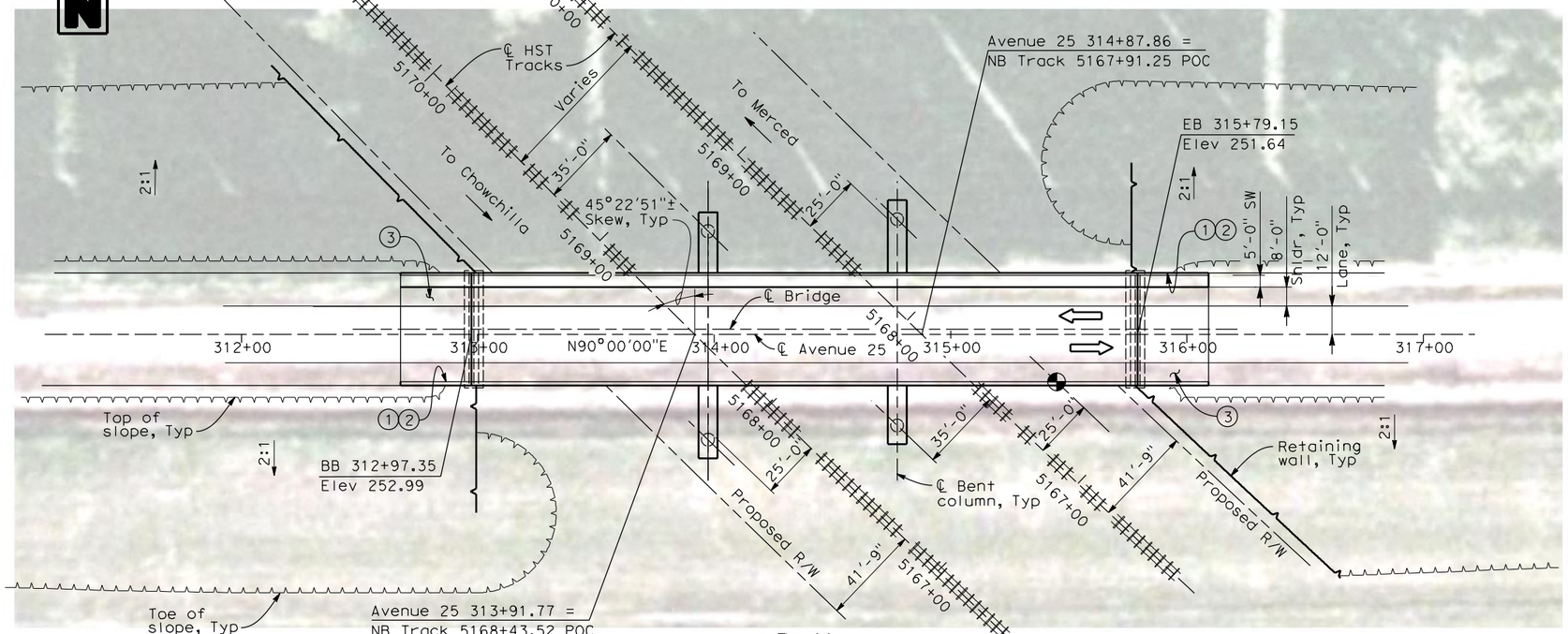
DolanR



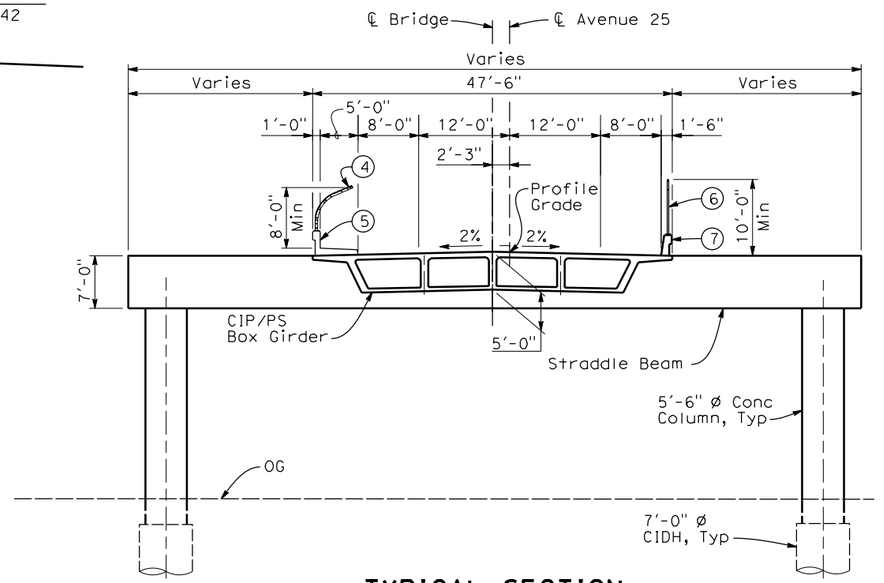
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 25 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	=	281'-10"
WIDTH	=	47'-6"
AREA	=	13,390 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 27

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 01/13/2012

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
UPRR/SR 99 MERCED CONNECTION
AVENUE 24
AVENUE 25 OVERHEAD
PLANNING STUDY - SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. ST1133
SCALE As shown
SHEET NO. OF

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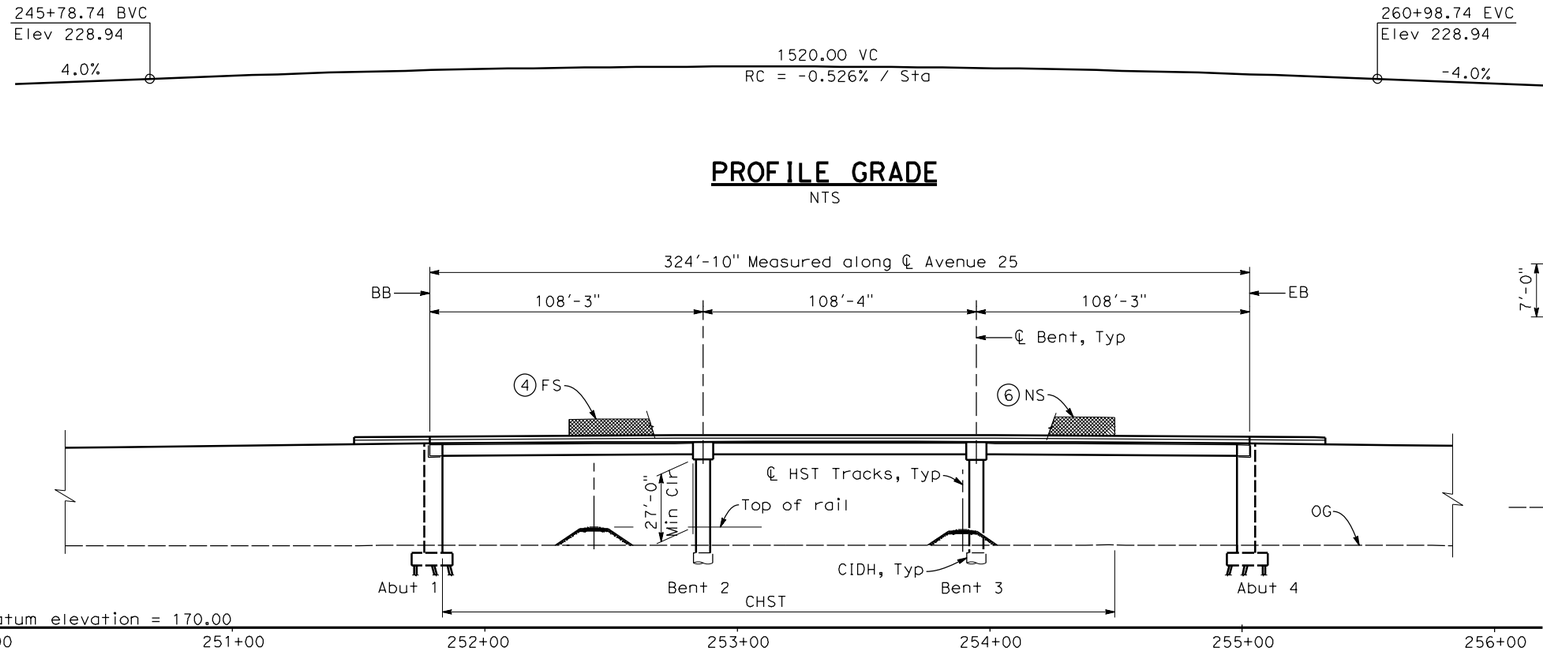
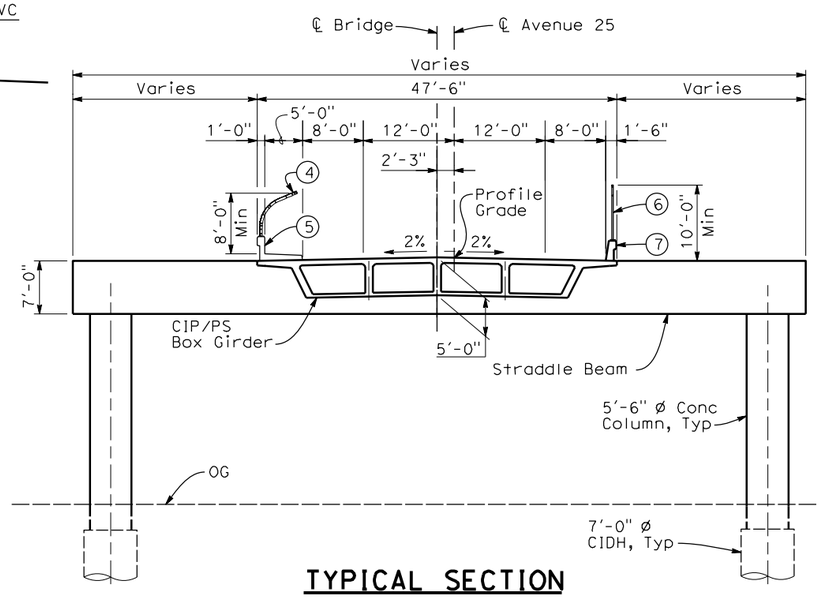
cisneros

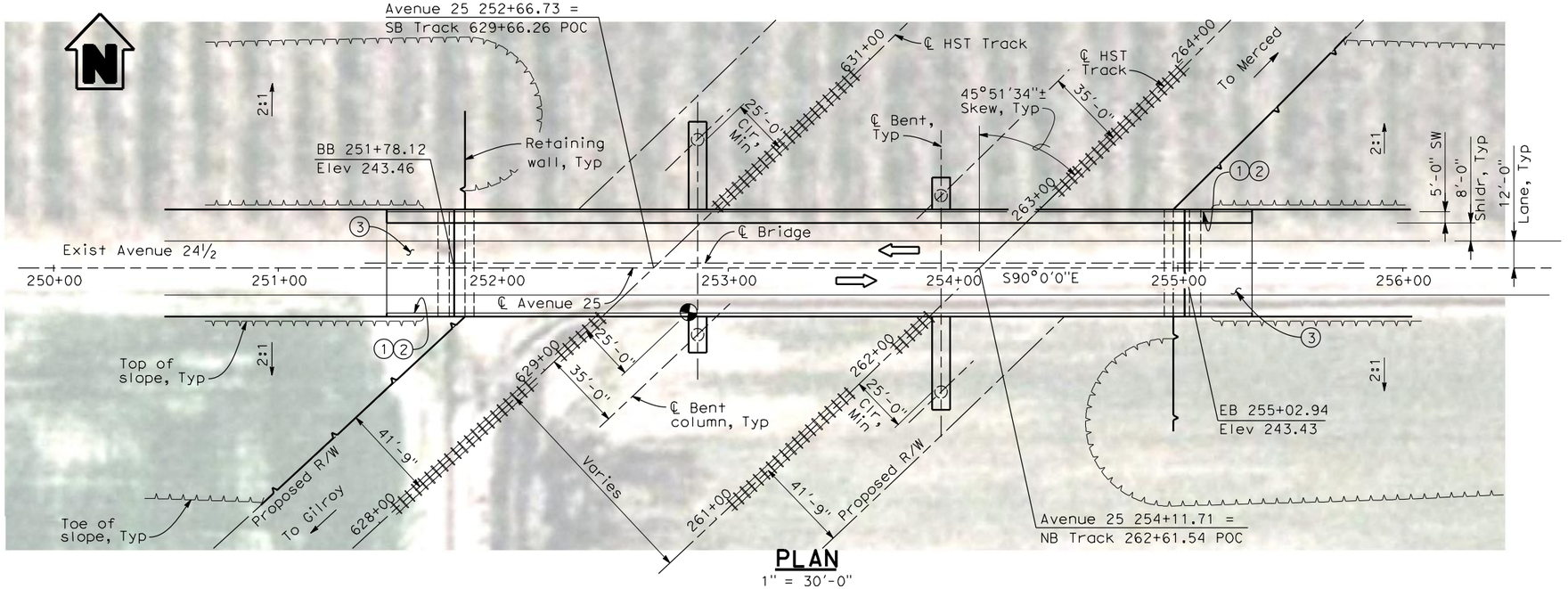


PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 25 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	=	324'-10"
WIDTH	=	47'-6"
AREA	=	15,430 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 27

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY H. WANG
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

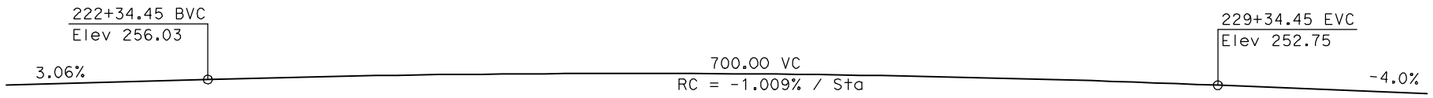
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

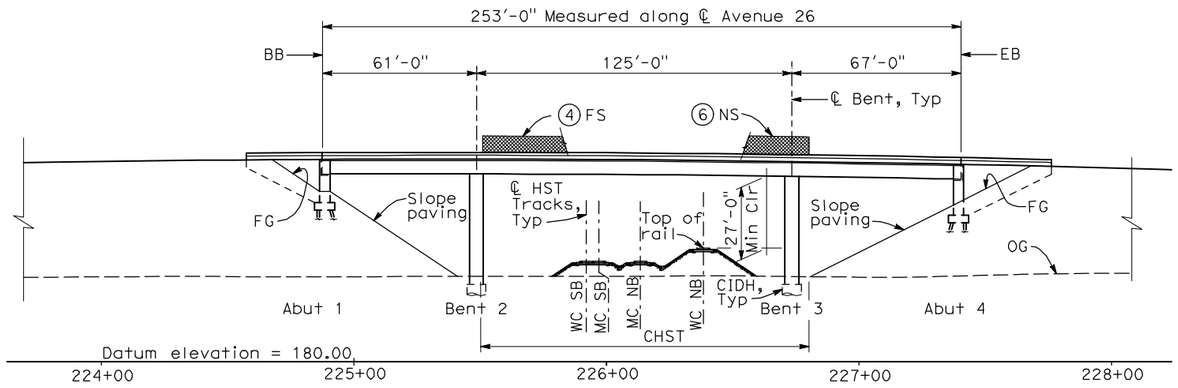
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE CONNECTION
AVENUE 24
AVENUE 25 OVERHEAD
PLANNING STUDY - SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. ST1134
SCALE As shown
SHEET NO. OF

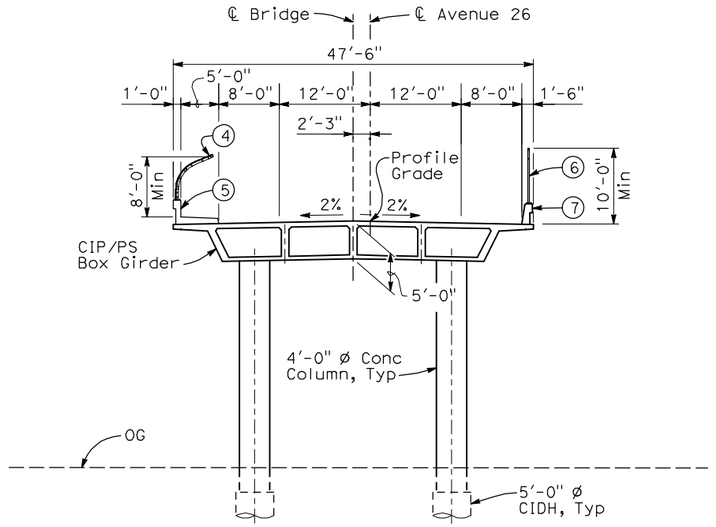
3/30/2012 6:21:35 PM \\ussclfp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Struct\Sheet\15%_Grade Structures_Revisions\W-WF-ST-OH_Ave 25Wye-Loc 27.dgn
cisnerose



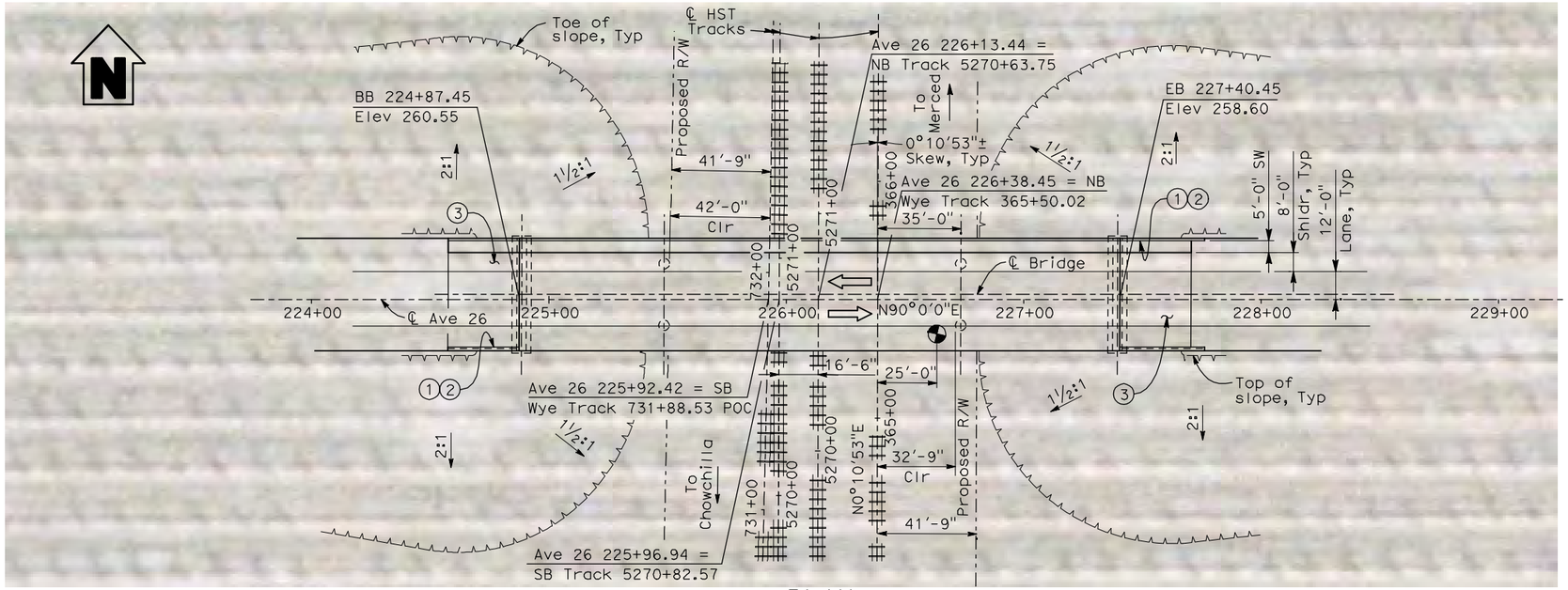
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

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

LEGEND/ABBREVIATIONS:

⇦ Direction of traffic

⊕ Point of minimum vertical clearance

MC = Merced Connection

WC = Wye Connection

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	253'-0"
WIDTH	=	47'-6"
AREA	=	12,000 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 26

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
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
CH2MHILL

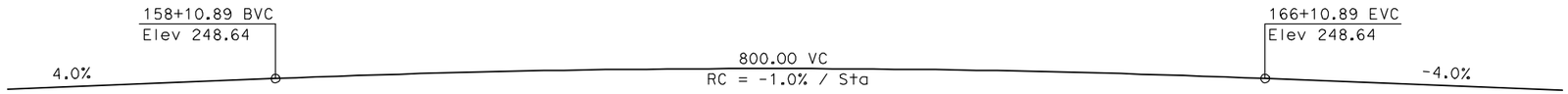
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

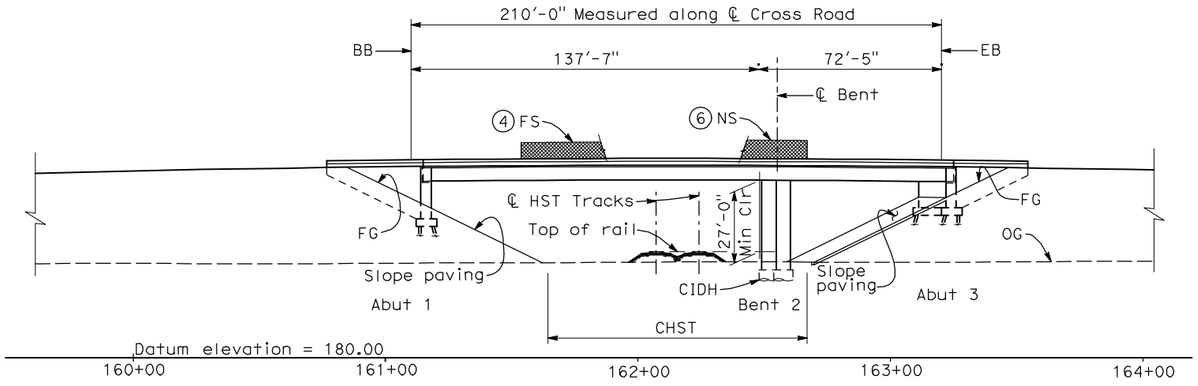
UPRR/SR 99 WYE & MERCED CONNECTIONS
AVENUE 24
AVENUE 26 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1135
SCALE As shown
SHEET NO. OF

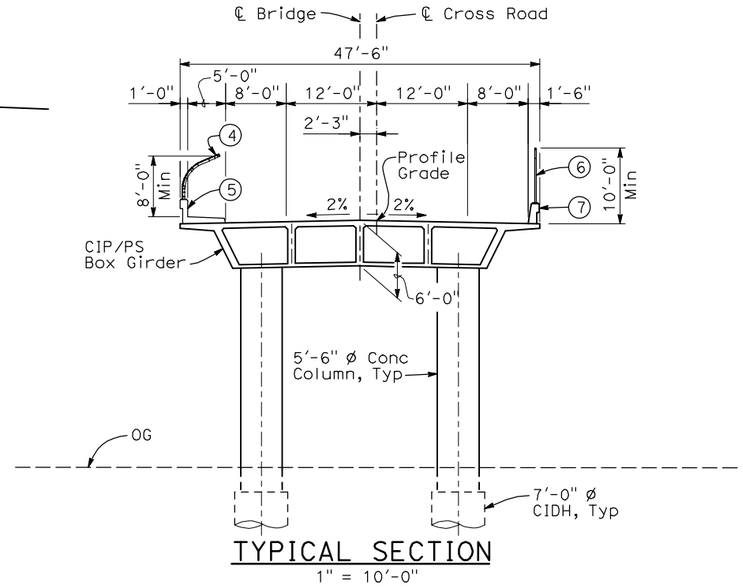
4/30/2011 6:00:41 PM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\VM-MF-ST-OH_Ave 26WC&MC-Loc 26.dgn
DolanR



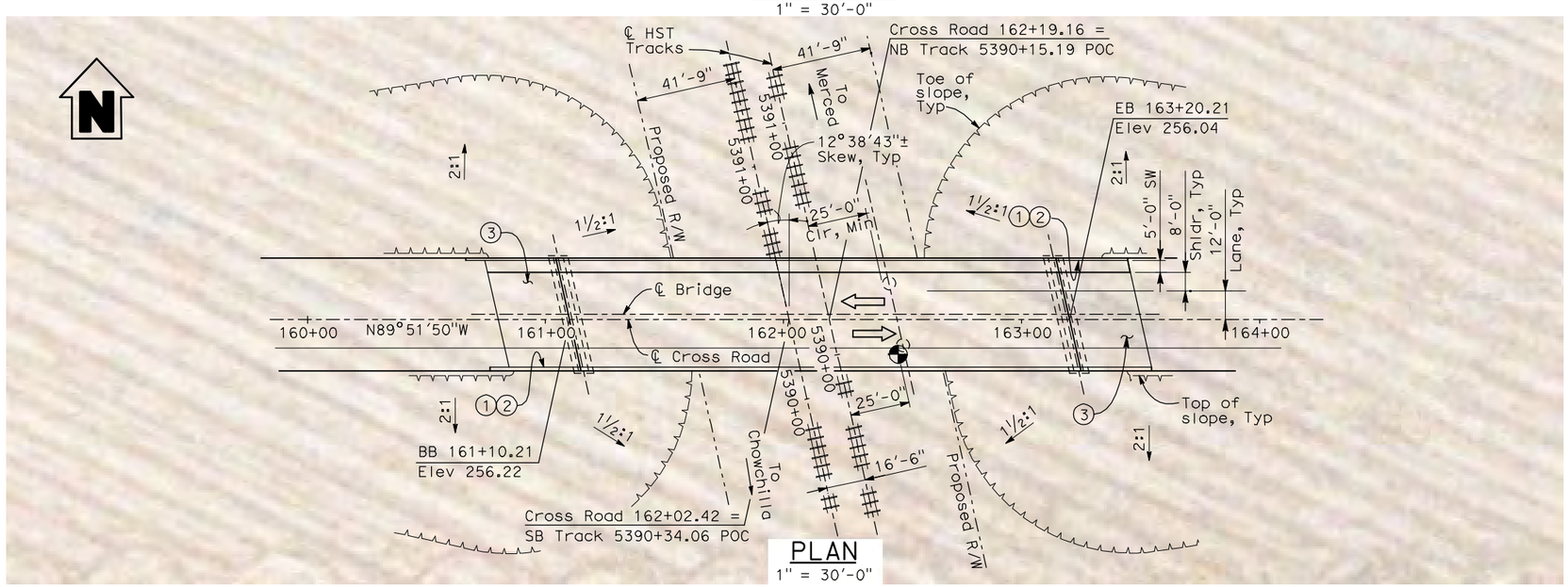
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Cross 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	=	210'-0"
WIDTH	=	47'-6"
AREA	=	9,975 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 25

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

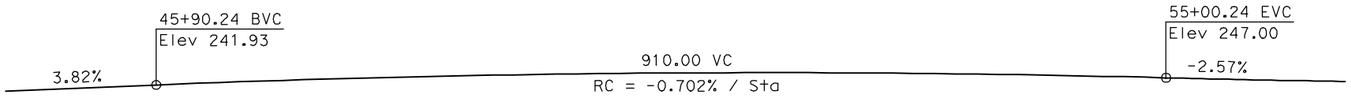
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

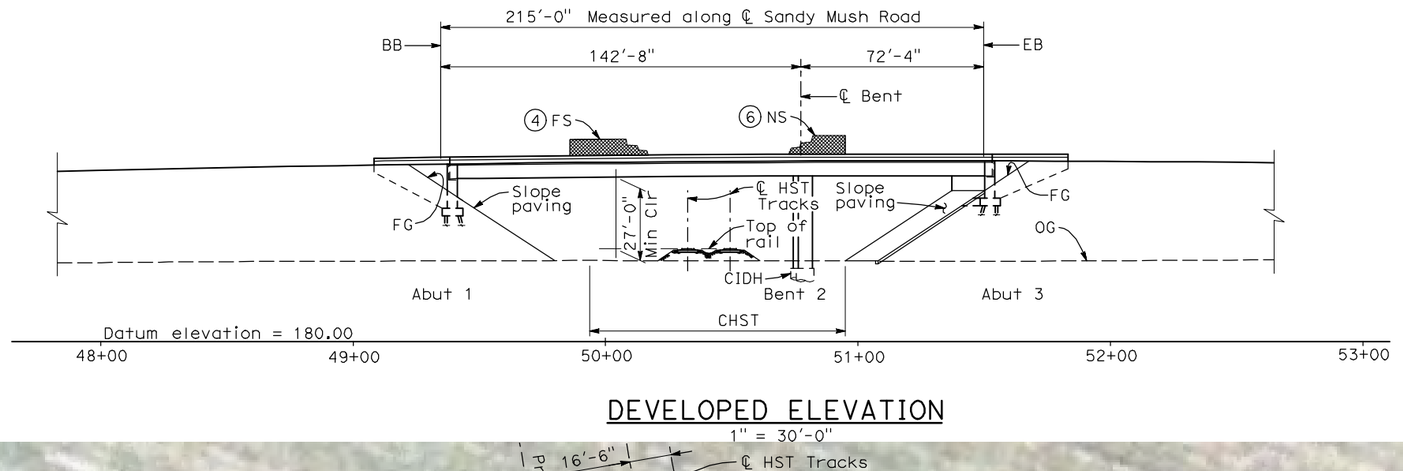
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 24
CROSS ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1136
SCALE As shown
SHEET NO. OF

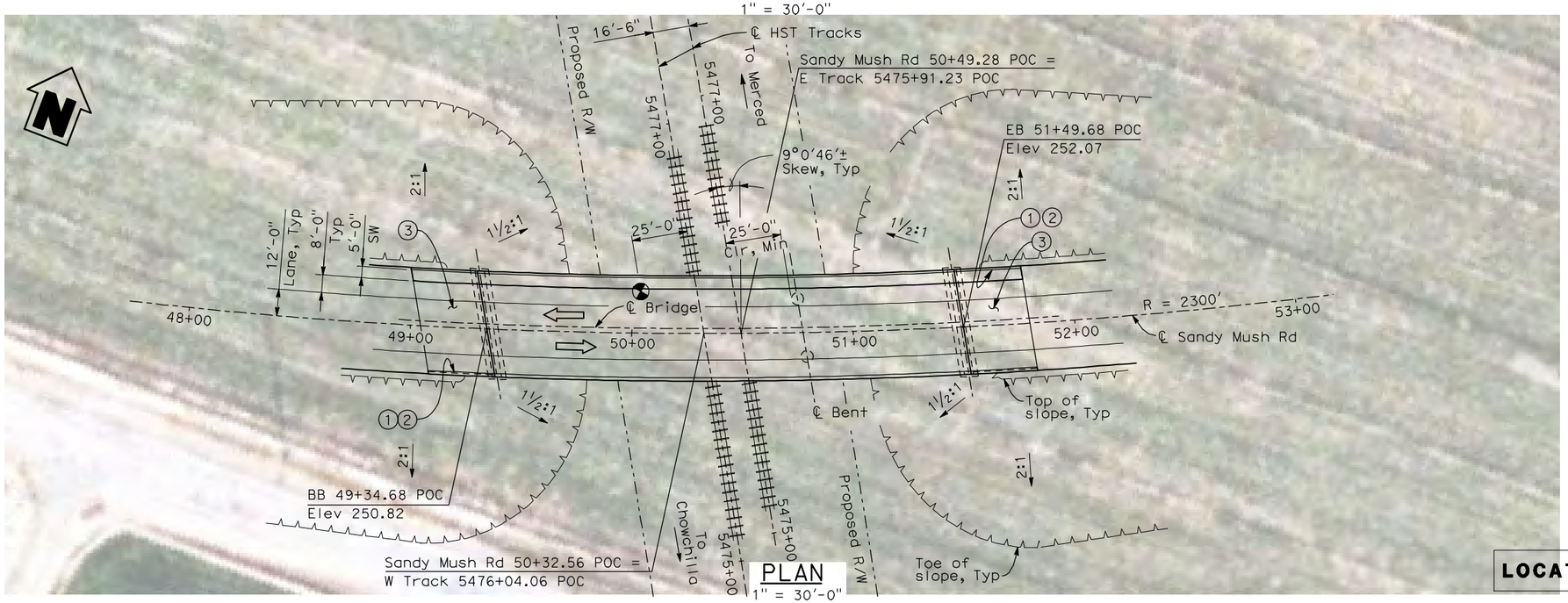
4/30/2011 6:01:04 PM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\VM-MF-ST-OH_Cross RoadMC-Loc 25.dgn
DolanR



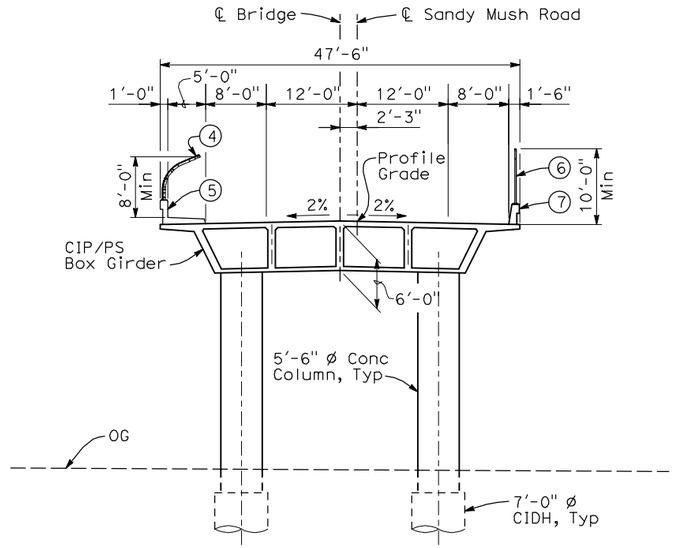
PROFILE GRADE
NTS



DEVELOPED ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. WX-ZZ"
2. Paint "Sandy Mush 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	=	215'-0"
WIDTH	=	47'-6"
AREA	=	10,200 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATIONS 35 & 35.1

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
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
CH2MHILL

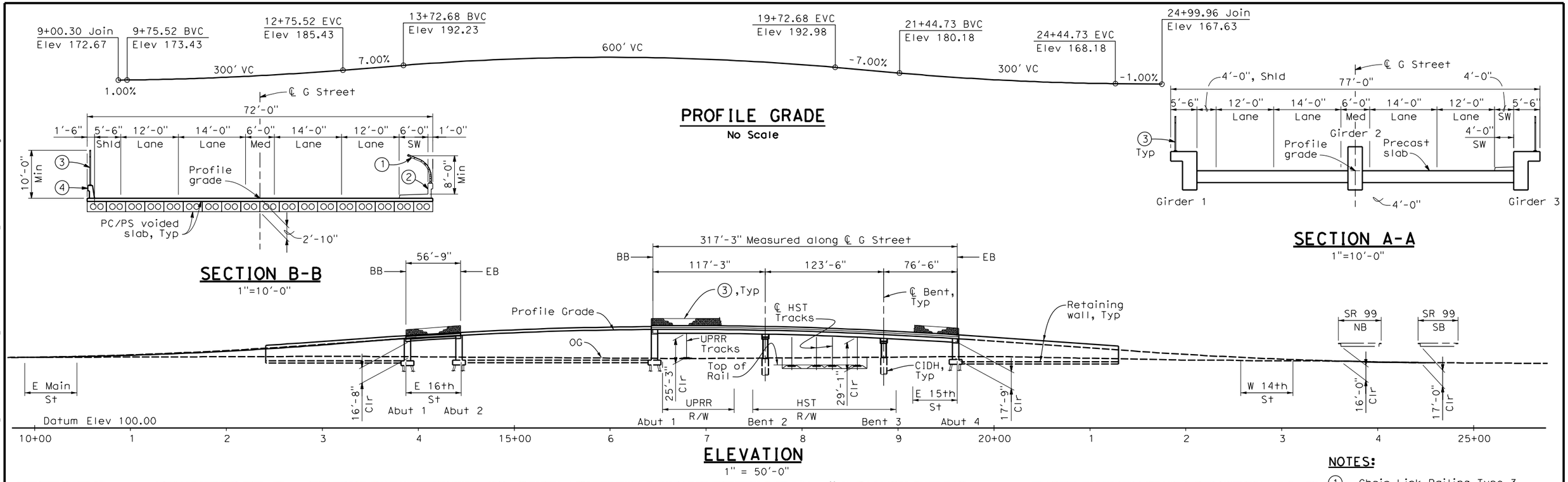
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED DO - HYBRID & WYE CONNECTION
AVENUE 24
SANDY MUSH ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1139
SCALE As shown
SHEET NO. OF

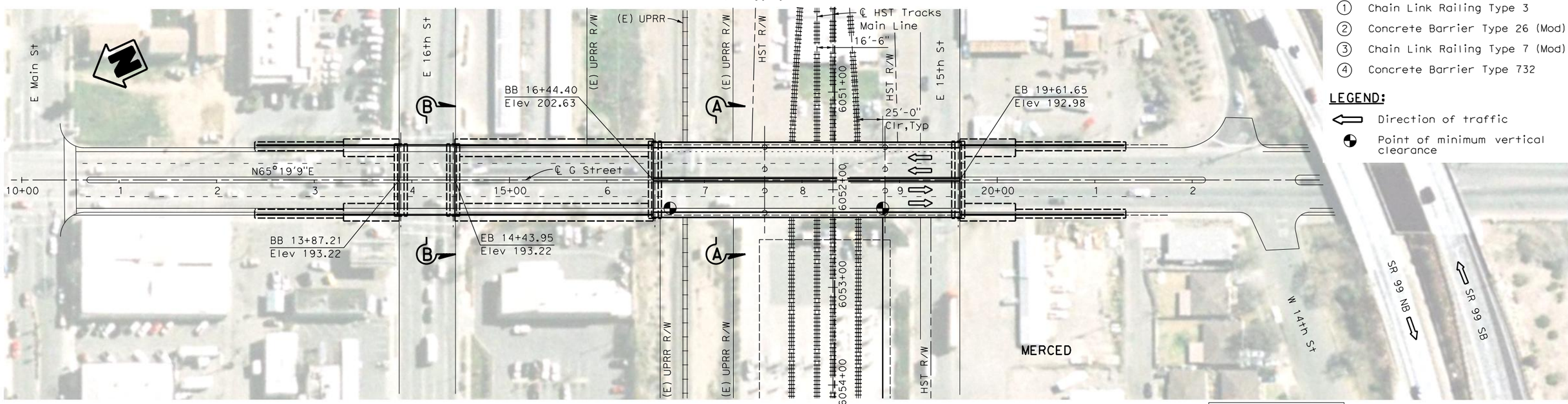
4/30/2011 6:01:44 PM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\MF-ST-OH_Sandy Mush24MC_HY-Loc35&35.1.dgn
DolanR

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



ELEVATION
1" = 50'-0"

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



PLAN
1" = 50'-0"

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

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

LOCATION 64

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY L. LEUNG
IN CHARGE A. BOONE
DATE 01/13/2012

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
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

3/30/2012 2:58:46 PM \\usscr1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\cadd\Struct\Sheet\15%_Grade Structures_Revisions\W-WF-ST-OH_G Street-Loc64.dgn
cisnerose

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
GENERAL						
		B7090-B	UPRR/SR99 - (AVE 24)	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 2
		B7091-B	UPRR/SR99 - (AVE 24)	GENERAL	INDEX OF DRAWINGS	SHEET 2 OF 2
		B7092-B	UPRR/SR99 - (AVE 24/WC)	GENERAL	ABBREVIATIONS, SYMBOLS AND NOTES	SHEET 1 OF 1
		B7100-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 1 OF 5
		B7101-B	UPRR/SR99 - (WC)		INDEX MAP	SHEET 2 OF 5
		B7102-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 3 OF 5
		B7103-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 4 OF 5
		B7104-B	UPRR/SR99 - (WC)		INDEX MAP	SHEET 5 OF 5
		CB7100-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 8 - OVERHEAD	KEY MAP	SHEET 1 OF 1
		CB7101-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	KEY MAP	SHEET 1 OF 1
		CB7102-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	KEY MAP	SHEET 1 OF 1
		CB7103-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	KEY MAP	SHEET 1 OF 1
		CB7104-B	UPRR/SR99 WYE/MERCED - (AVE 24)	SANDY MUSH RD - INTERCHANGE	KEY MAP	SHEET 1 OF 1
		CB7105-B	UPRR/SR99 MERCED - (AVE 24/WC)	LE GRAND RD - INTERCHANGE	KEY MAP	SHEET 1 OF 1
		CB7106-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	KEY MAP	SHEET 1 OF 1
		CB7107-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD - INTERCHANGE	KEY MAP	SHEET 1 OF 1
		CB7108-B	UPRR/SR99 MAINLINE - (AVE 24)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	KEY MAP	SHEET 1 OF 1
		CB7109-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	KEY MAP	SHEET 1 OF 1
		CT7090-B	UPRR/SR99 - (AVE 24)	HIGHWAY	TYPICAL CROSS SECTIONS	SHEET 1 OF 2
		CT7091-B	UPRR/SR99 - (AVE 24)	HIGHWAY	TYPICAL CROSS SECTIONS	SHEET 2 OF 2
		CT7092-B	UPRR/SR99 - (AVE 24/WC)		GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN	SHEET 1 OF 1
LAYOUT						
14		CT7100-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 8 - OVERHEAD	LAYOUT	SHEET 1 OF 3
14		CT7101-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 8 - OVERHEAD	LAYOUT	SHEET 2 OF 3
14		CT7102-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 8 - OVERHEAD	LAYOUT	SHEET 3 OF 3
15		CT7103-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	LAYOUT	SHEET 1 OF 7
15		CT7104-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	LAYOUT	SHEET 2 OF 7
15		CT7105-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	LAYOUT	SHEET 3 OF 7
15		CT7106-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	LAYOUT	SHEET 4 OF 7
15		CT7107-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	LAYOUT	SHEET 5 OF 7
15		CT7108-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVE 9 - INTERCHANGE SR 99 NB OFF/SB ON RAMPS	LAYOUT	SHEET 6 OF 7
15		CT7109-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVE 9 - INTERCHANGE SR 99 NB ON/SB OFF RAMPS	LAYOUT	SHEET 7 OF 7
16		CT7110-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	LAYOUT	SHEET 1 OF 5
16		CT7111-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	LAYOUT	SHEET 2 OF 5
16		CT7112-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	LAYOUT	SHEET 3 OF 5
16		CT7113-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	LAYOUT	SHEET 4 OF 5
16		CT7114-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	LAYOUT	SHEET 5 OF 5
21		CT7115-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 1 OF 4
21		CT7116-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 2 OF 4
21		CT7117-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 3 OF 4
21		CT7118-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 4 OF 4
20		CT7119-B	UPRR/SR99 WYE/MERCED - (AVE 24)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 1 OF 3
20		CT7120-B	UPRR/SR99 WYE/MERCED - (AVE 24)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 2 OF 3
20		CT7121-B	UPRR/SR99 WYE/MERCED - (AVE 24)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 3 OF 3
19		CT7122-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 1 OF 5
19		CT7123-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 2 OF 5
19		CT7124-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 3 OF 5
19		CT7125-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 4 OF 5
19		CT7126-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 5 OF 5
19		CT7127-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD IC SR99 SB ON-RAMP	LAYOUT	SHEET 1 OF 2
19		CT7128-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD IC SR99 SB OFF-RAMP	LAYOUT	SHEET 2 OF 2
36		CT7129-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 1 OF 4
36		CT7130-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 2 OF 4
36		CT7131-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 3 OF 4
36		CT7132-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 4 OF 4
35		CT7133-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 1 OF 4
35		CT7134-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 2 OF 4
35		CT7135-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 3 OF 4
35		CT7136-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 4 OF 4
21		CT7137-B	UPRR/SR99 MAINLINE - (AVE 24)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	LAYOUT	SHEET 1 OF 3
21		CT7138-B	UPRR/SR99 MAINLINE - (AVE 24)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	LAYOUT	SHEET 2 OF 3
21		CT7139-B	UPRR/SR99 MAINLINE - (AVE 24)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	LAYOUT	SHEET 3 OF 3
36		CT7140-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	LAYOUT	SHEET 1 OF 3
36		CT7141-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	LAYOUT	SHEET 2 OF 3
36		CT7142-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	LAYOUT	SHEET 3 OF 3
PROFILE						
14		CT8100-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 8 - OVERHEAD	PROFILE	SHEET 1 OF 4
14		CT8101-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 8 - OVERHEAD	PROFILE	SHEET 2 OF 4
14		CT8102-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 8 - OVERHEAD	PROFILE	SHEET 3 OF 4
14		CT8103-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 8 - OVERHEAD	PROFILE	SHEET 4 OF 4
15		CT8104-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	PROFILE	SHEET 1 OF 11

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 - (AVE 24)
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B7090-B
SCALE NONE
SHEET NO. ### OF ###

USER=ReyesC1 3/27/2012 12:25:19 PM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\Package 2 -

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
15		CT8105-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	PROFILE	SHEET 2 OF 11
15		CT8106-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	PROFILE	SHEET 3 OF 11
15		CT8107-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	PROFILE	SHEET 4 OF 11
15		CT8108-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE	PROFILE	SHEET 5 OF 11
15		CT8109-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE SR NB 99 OFF-RAMP	PROFILE	SHEET 6 OF 11
15		CT8110-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE SR 99 NB ON-RAMP	PROFILE	SHEET 7 OF 11
15		CT8111-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE SR 99 NB ON-RAMP	PROFILE	SHEET 8 OF 11
15		CT8112-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE SR 99 SB ON-RAMP	PROFILE	SHEET 9 OF 11
15		CT8113-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE SR 99 SB ON-RAMP	PROFILE	SHEET 10 OF 11
15		CT8114-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 9 - INTERCHANGE SR 99 SB OFF-RAMP	PROFILE	SHEET 11 OF 11
16		CT8115-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	PROFILE	SHEET 1 OF 5
16		CT8116-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	PROFILE	SHEET 2 OF 5
16		CT8117-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	PROFILE	SHEET 3 OF 5
16		CT8118-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	PROFILE	SHEET 4 OF 5
16		CT8119-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	AVENUE 11 - OVERHEAD	PROFILE	SHEET 5 OF 5
21		CT8120-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 1 OF 4
21		CT8121-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 2 OF 4
21		CT8122-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 3 OF 4
21		CT8123-B	UPRR/SR99 MAINLINE - (AVE 24)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 4 OF 4
20		CT8124-B	UPRR/SR99 WYE/MERCED - (AVE 24)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 1 OF 3
20		CT8125-B	UPRR/SR99 WYE/MERCED - (AVE 24)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 2 OF 3
20		CT8126-B	UPRR/SR99 WYE/MERCED - (AVE 24)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 3 OF 3
19		CT8127-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 1 OF 5
19		CT8128-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 2 OF 5
19		CT8129-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 3 OF 5
19		CT8130-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 4 OF 5
19		CT8131-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 5 OF 5
19		CT8132-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP	PROFILE	SHEET 1 OF 4
19		CT8133-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP	PROFILE	SHEET 2 OF 4
19		CT8134-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP	PROFILE	SHEET 3 OF 4
19		CT8135-B	UPRR/SR99 MERCED - (AVE 24/WC)	GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP	PROFILE	SHEET 4 OF 4
36		CT8136-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 1 OF 4
36		CT8137-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 2 OF 4
36		CT8138-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 3 OF 4
36		CT8139-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 4 OF 4
35		CT8140-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 1 OF 4
35		CT8141-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 2 OF 4
35		CT8142-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 3 OF 4
35		CT8143-B	UPRR/SR99 MERCED DO - (WC)	SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 4 OF 4
21		CT8144-B	UPRR/SR99 MAINLINE - (AVE 24)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	PROFILE	SHEET 1 OF 3
21		CT8145-B	UPRR/SR99 MAINLINE - (AVE 24)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	PROFILE	SHEET 2 OF 3
21		CT8146-B	UPRR/SR99 MAINLINE - (AVE 24)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	PROFILE	SHEET 3 OF 3
36		CT8147-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	PROFILE	SHEET 1 OF 3
36		CT8148-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	PROFILE	SHEET 2 OF 3
36		CT8149-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2	PROFILE	SHEET 3 OF 3

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 - (AVE 24)
GENERAL
INDEX OF DRAWINGS
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B7091-B
SCALE NONE
SHEET NO. ### OF ###

ABBREVIATIONS

ALIGNMENT

HORIZONTAL

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

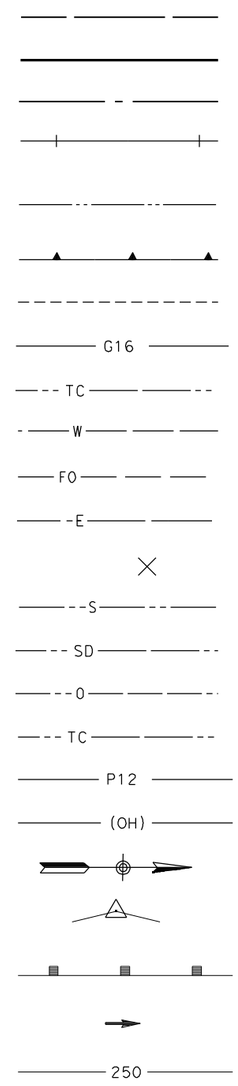
VERTICAL

BVC	BEGIN OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
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

ALT	ALTERNATIVE
AVE	AVENUE
BB	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
℄	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EB	END BRIDGE
ELEV	ELEVATION
EQ	EQUATION
ES	EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	EXISTING
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT
HST	HIGH SPEED TRAIN
HWY	HIGHWAY
IC	INTERCHANGE
IN	INCH
L	LENGTH
LT	LEFT
MBGR	METAL BEAM GUARD RAIL
ML	MAINLINE
MPH	MILES PER HOUR
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
No, NO	NUMBER
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL, FG	PROFILE GRADE LINE
RET	RETAINING
RR	RAILROAD
RD	ROAD
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTH BOUND
SHLD	SHOULDER
SR	STATE ROUTE
SHT	SHEET
SS	SANITARY SEWER
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
STD	STANDARD
SD	STORM DRAIN
STRUCT, STR	STRUCTURE
T	TANGENT
TEL	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER OPTIC
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS



MATCH LINE

HST TRACK

PROPOSED HST RIGHT-OF-WAY

FREIGHT/PASSENGER TRACK - EXISTING

EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES

RETAINING WALLS

ORIGINAL GROUND

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

NORTH ARRROW

PVI

MBGR

DIRECTION OF TRAVEL

PROPOSED CONTOUR

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24/WC)
GENERAL
ABBREVIATIONS, SYMBOLS AND NOTES
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. B7092-B
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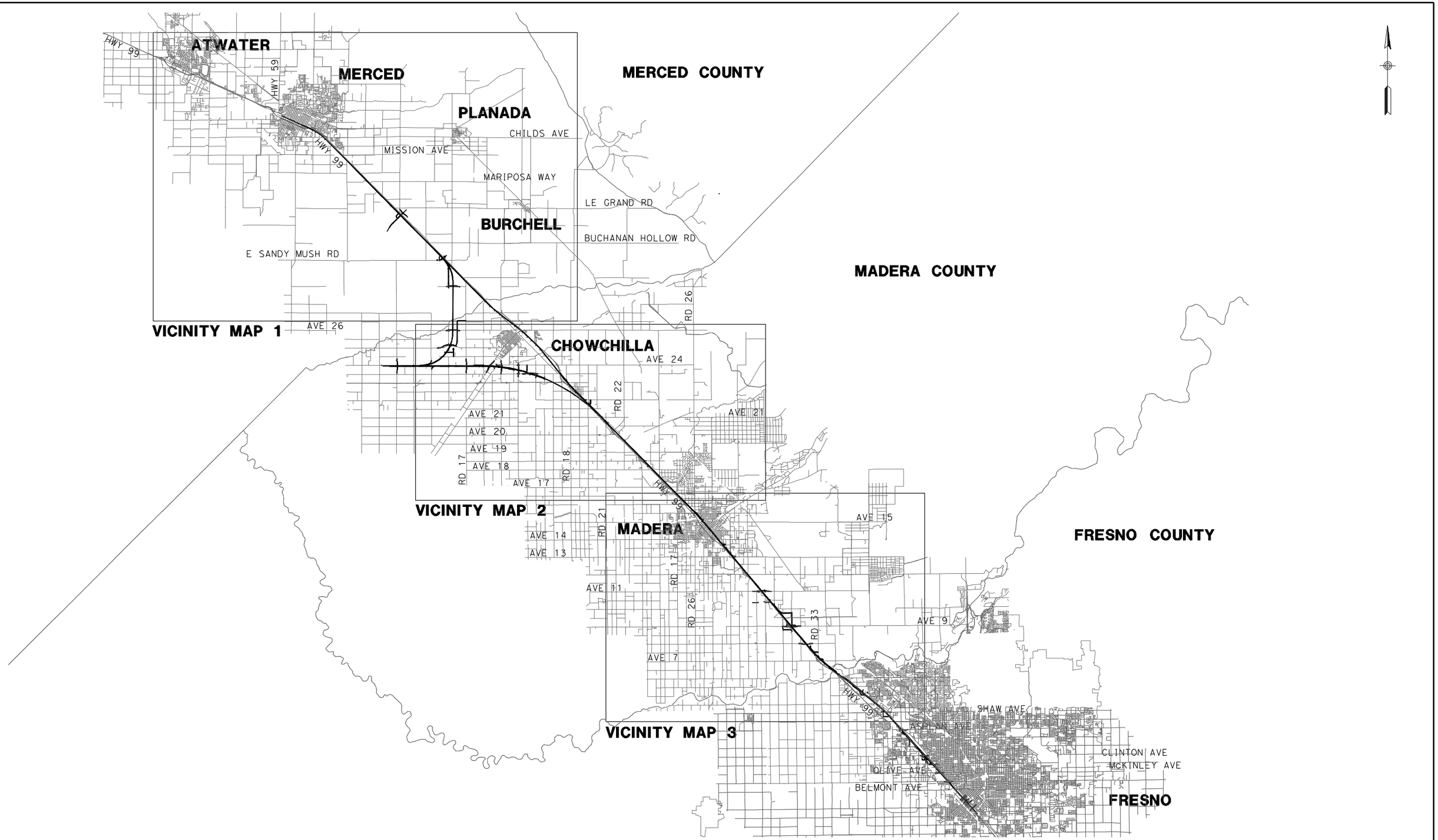

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24)

INDEX MAP
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B7100-B
SCALE NO SCALE
SHEET NO. ### OF ###

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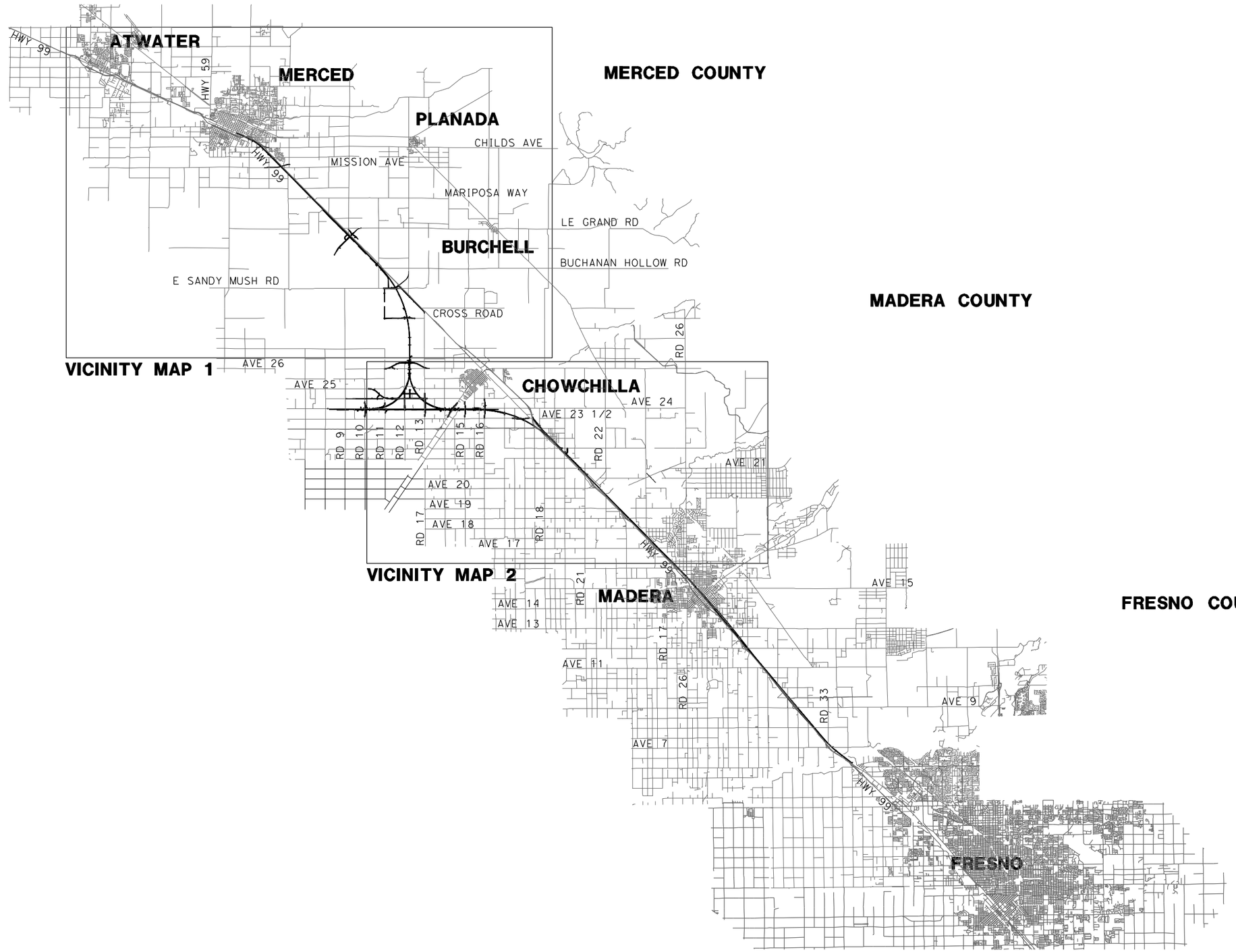

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1	12/28/11	RG			

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (WC)

INDEX MAP
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B7101-B
SCALE NO SCALE
SHEET NO. ### OF ###

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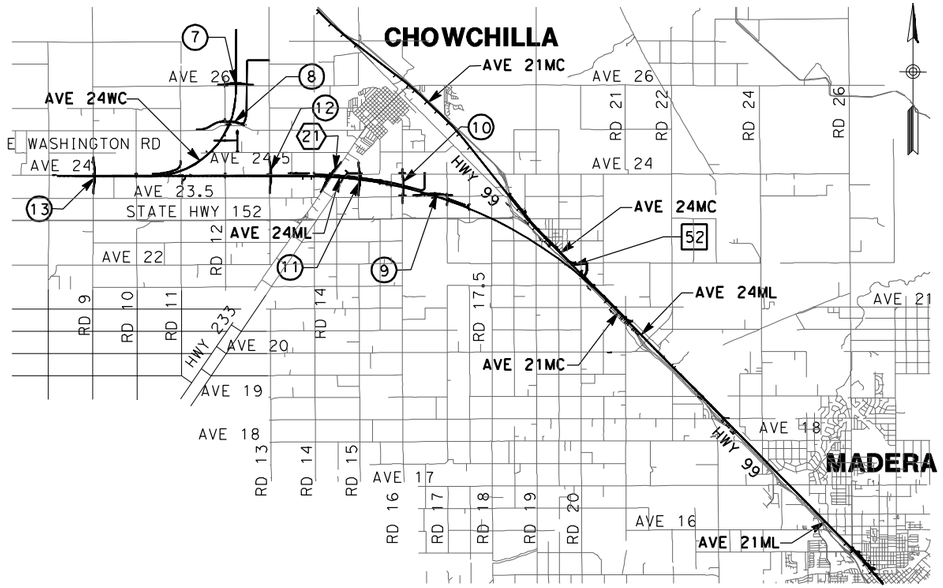
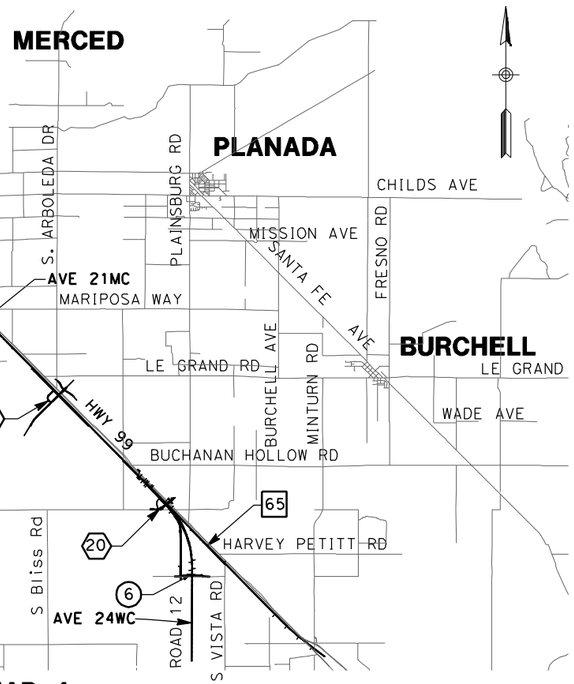
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(6)	GRADE SEPARATION - CROSS RD	CT5126-B - CT5128-B	ST1127
(7)	GRADE SEPARATION - AVENUE 26	CT5123-B - CT5125-B	ST1126
(8)	GRADE SEPARATION - AVENUE 25	CT5118-B - CT5122-B	ST1125
(9)	GRADE SEPARATION - AVENUE 23 1/2	CT5114-B - CT5117-B	ST1124
(10)	GRADE SEPARATION - ROAD 16	CT5111-B - CT5113-B	ST1123
(11)	GRADE SEPARATION - ROAD 15	CT5108-B - CT5110-B	ST1122
(12)	GRADE SEPARATION - ROAD 13	CT5104-B - CT5107-B	ST1138
(13)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	CT5100-B - CT5103-B	ST1120
	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	CT5190-B - CT5192-B	ST1120
(64)	GRADE SEPARATION - G STREET	CT0149-A	ST1180
⟨14⟩	AVENUE 8 - OVERCROSSING	CT7100-B - CT7102-B	ST1107
⟨15⟩	AVENUE 9 - INTERCHANGE	CT7103-B - CT7109-B	ST1108 - ST1109
⟨16⟩	AVENUE 11 - OVERCROSSING	CT7110-B - CT7114-B	ST1110
⟨19⟩	GRADE SEPARATION - LE GRAND INTERCHANGE	CT7122-B - CT7128-B	ST1114
⟨20⟩	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	CT7119-B - CT7121-B	ST1142
⟨21⟩	GRADE SEPARATION - ROBERTSON BLVD (SR233) ALT 1	CT7115-B - CT7118-B	ST1141
	UNDERPASS - ROBERTSON BLVD (SR233) ALT 2	CT7137-B - CT7139-B	

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
[40]	ROAD 33	CR9100-B
[41]	PROPOSED ROAD	CR9101-B
[42]	ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9	CR9102-B
[43]	ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9	CR9103-B
	ROAD 31 1/2	CR9104-B
[44]	ROAD 30 1/2	CR9105-B - CR9106-B
[45]	FRONTAGE ROAD	CR9107-B
	ROAD 30 AT AVENUE 11	CR9108-B - CR9109-B
[46]	S. KNOX ST	CR9110-B
[48]	SHARON BLVD & E ST	CR9111-B
[47]	N. E ST AND S. E ST	CR9112-B
[52]	FAIRMEAD BLVD	CR9113-B - CR9116-B
[65]	PROPOSED WEST FRONTAGE ROAD	CR9117-B - CR9118-B



VICINITY MAP 2



VICINITY MAP 1

VICINITY MAP 3

9000 0 9000 18000
GRAPHIC SCALE

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

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MERCED TO FRESNO
UPPR/SR99 - (AVE 24)

INDEX MAP
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B7102-B
SCALE NO SCALE
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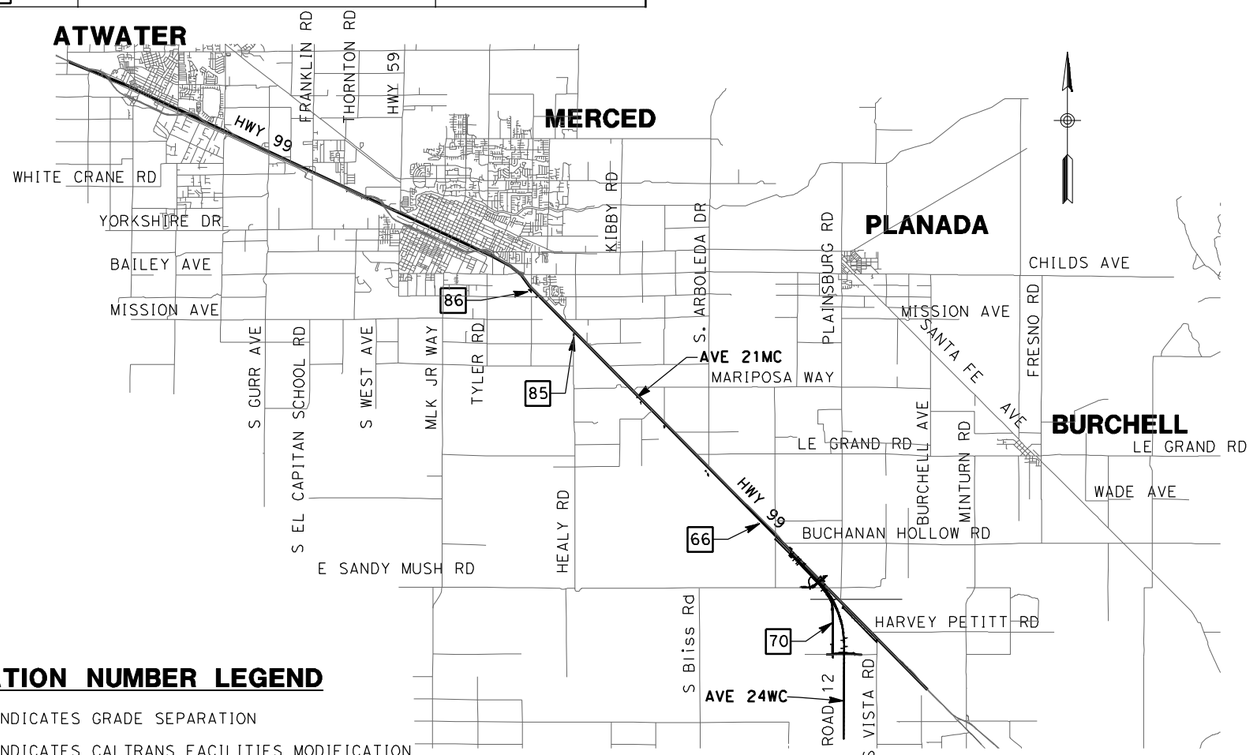
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
66	PROPOSED WEST FRONTAGE ROAD	CR9119-B - CR9125-B
67	SOUTH FRONTAGE ROAD	CR9130-B - CR9131-B
	PROPOSED AVENUE 24 WYE	CR9132-B
	SOUTH FRONTAGE ROAD	CR9133-B - CR9134-B
	NORTH AND SOUTH FRONTAGE ROAD	CR9135-B
68	NORTH AND SOUTH FRONTAGE ROAD	CR9136-B - CR9138-B
69	NORTH FRONTAGE ROAD & ROAD 16 1/2	CR9139-B - CR9140-B
	NORTH & SOUTH FRONTAGE ROAD AVENUE 24	CR9141-B - CR9142-B
70	ROAD 12	CR9143-B
71	AVENUE 24 1/2	CR9144-B
	ROAD 12 1/4 & AVENUE 24 1/2	CR9145-B
	ROAD 12 1/4	CR9146-B
72	ROAD 12 1/2	CR9147-B
	ROAD 12 1/2 & AVENUE 26 1/2	CR9148-B
	AVENUE 26 1/2	CR9149-B
85	HEALY ROAD	CR9176-B
86	GERARD AVENUE/CALTRANS FRONTAGE ROAD	CR9177-B



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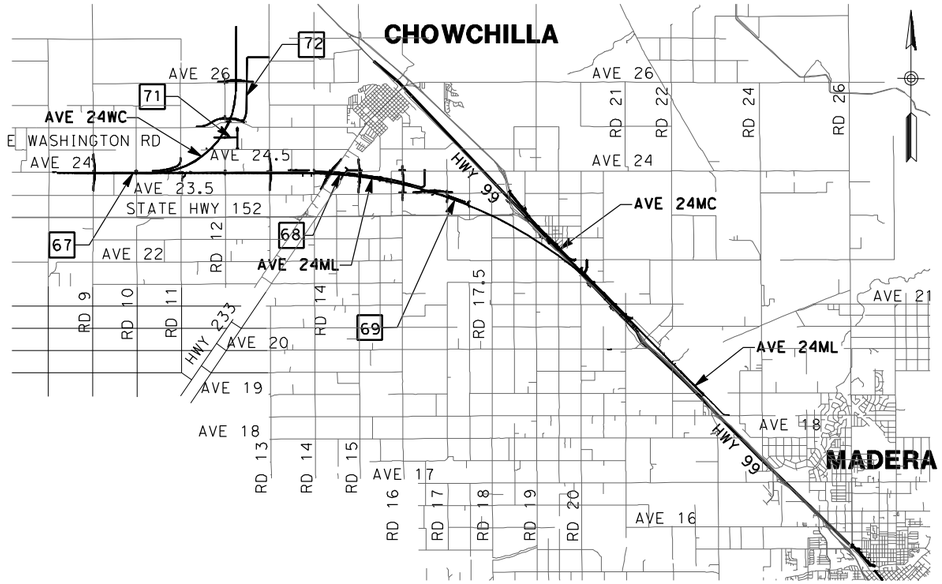

VICINITY MAP 2

LOCATION NUMBER LEGEND

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

0 9000 18000
GRAPHIC SCALE

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UPRR/SR99 - (AVE 24)

INDEX MAP
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B7103-B
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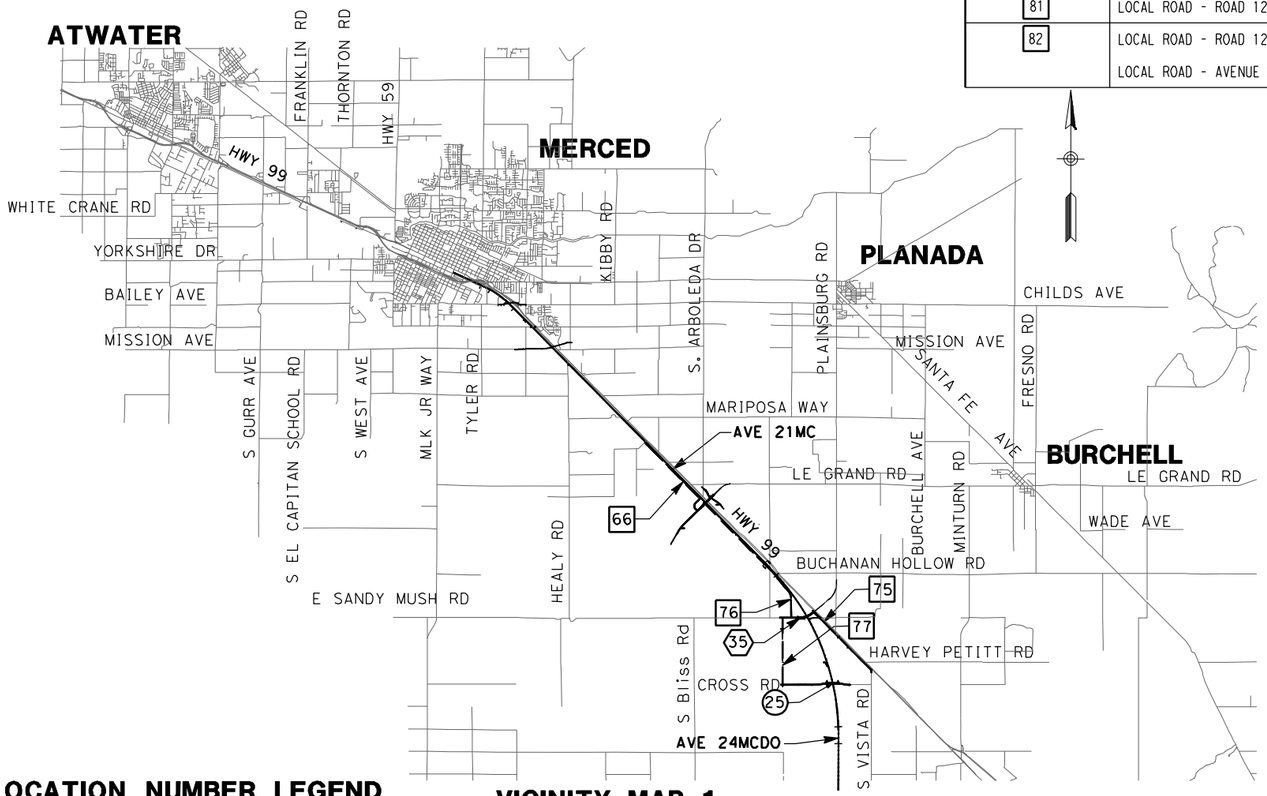
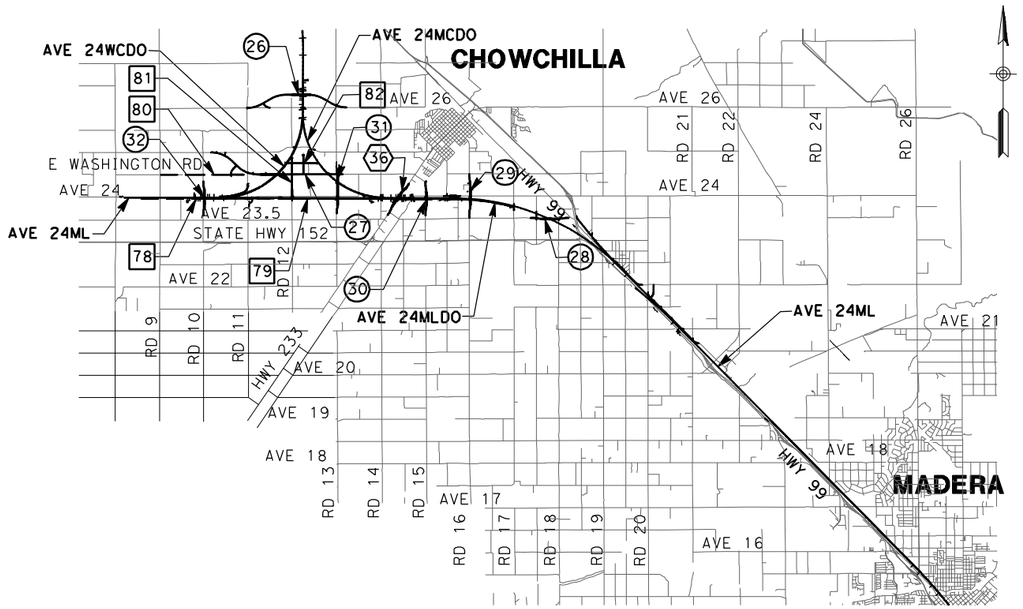
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(25)	GRADE SEPARATION - CROSS ROAD	CT5179-B - CT5181-B	ST1136
(26)	GRADE SEPARATION - AVENUE 26 ALT 1	CT5168-B - CT5177-B	ST1135
	UNDERPASS - AVENUE 26 ALT 2	CT5187-B - CT5189-B	
(27)	GRADE SEPARATION - AVENUE 25	CT5151-B - CT5162-B	ST1133 & ST1134
(28)	GRADE SEPARATION - AVENUE 23 1/2	CT5146-B - CT5149-B	ST1132
(29)	GRADE SEPARATION - ROAD 16	CT5142-B - CT5145-B	ST1131
(30)	GRADE SEPARATION - ROAD 15	CT5138-B - CT5141-B	ST1130
(31)	GRADE SEPARATION - ROAD 13	CT5132-B - CT5136-B	ST1129 & ST1137
(32)	GRADE SEPARATION - ROAD 10 ALT 1	CT5129-B - CT5131-B	ST1128
	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	CT5193-B - CT5195-B	ST1128
⟨35⟩	SANDY MUSH RD INTERCHANGE	CT7133-B - CT7136-B	ST1142
⟨36⟩	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	CT7129-B - CT7132-B	ST1143
	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	CT7140-B - CT7142-B	

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
[66]	PROPOSED WEST FRONTAGE ROAD	CR9172-B - CR9175-B
[75]	LOCAL ROAD - WEST FRONTAGE ROAD	CR9126-B - CR9127-B
[76]	LOCAL ROAD - SANDY MUSH ROAD	CR9152-B
	LOCAL ROAD - WEST FRONTAGE ROAD	CR9128-B - CR9129-B
[77]	LOCAL ROAD - ROAD 11	CR9150-B - CR9151-B
	LOCAL ROAD - CROSS ROAD	CR9153-B
[78]	SOUTH FRONTAGE ROAD	CR9159-B
	AVENUE 24	CR9160-B
[79]	SOUTH FRONTAGE ROAD	CR9161-B - CR9163-B
	LOCAL ROAD - FRONTAGE ROAD	CR9164-B
	LOCAL ROAD - FRONTAGE ROAD & AVE 24	CR9165-B
	LOCAL ROAD - FRONTAGE ROAD	CR9166-B
[80]	LOCAL ROAD - AVENUE 24 1/2	CR9154-B - CR9155-B
[81]	LOCAL ROAD - ROAD 12	CR9156-B
[82]	LOCAL ROAD - ROAD 12 1/2 & AVE 24 3/4	CR9157-B
	LOCAL ROAD - AVENUE 24 3/4	CR9158-B



VICINITY MAP 1



VICINITY MAP 2

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

9000 0 9000 18000

GRAPHIC SCALE

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPPR/SR99 - (WC)

INDEX MAP
SHEET 5 OF 5

CONTRACT NO. HSR06-007
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 8 - OVERHEAD
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7100-B
SCALE AS SHOWN
SHEET NO. ### OF ###

USER=ReyesC1 3/27/2012 4:43:56 PM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cad\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\Package 2 -

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7101-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7102-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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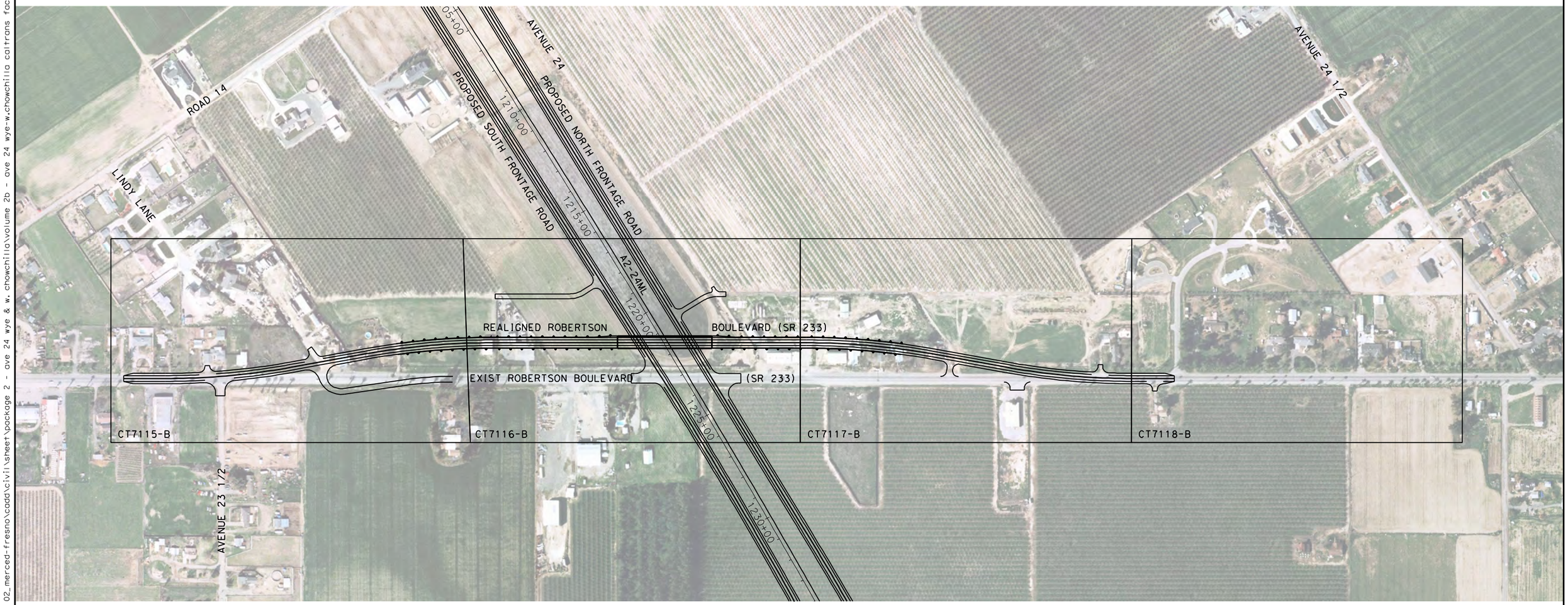

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1"=200'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7103-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
SANDY MUSH ROAD - INTERCHANGE
KEY MAP
SHEET 1 OF 1

CONTRACT NO.: HSR06-007
DRAWING NO.: CB7104-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

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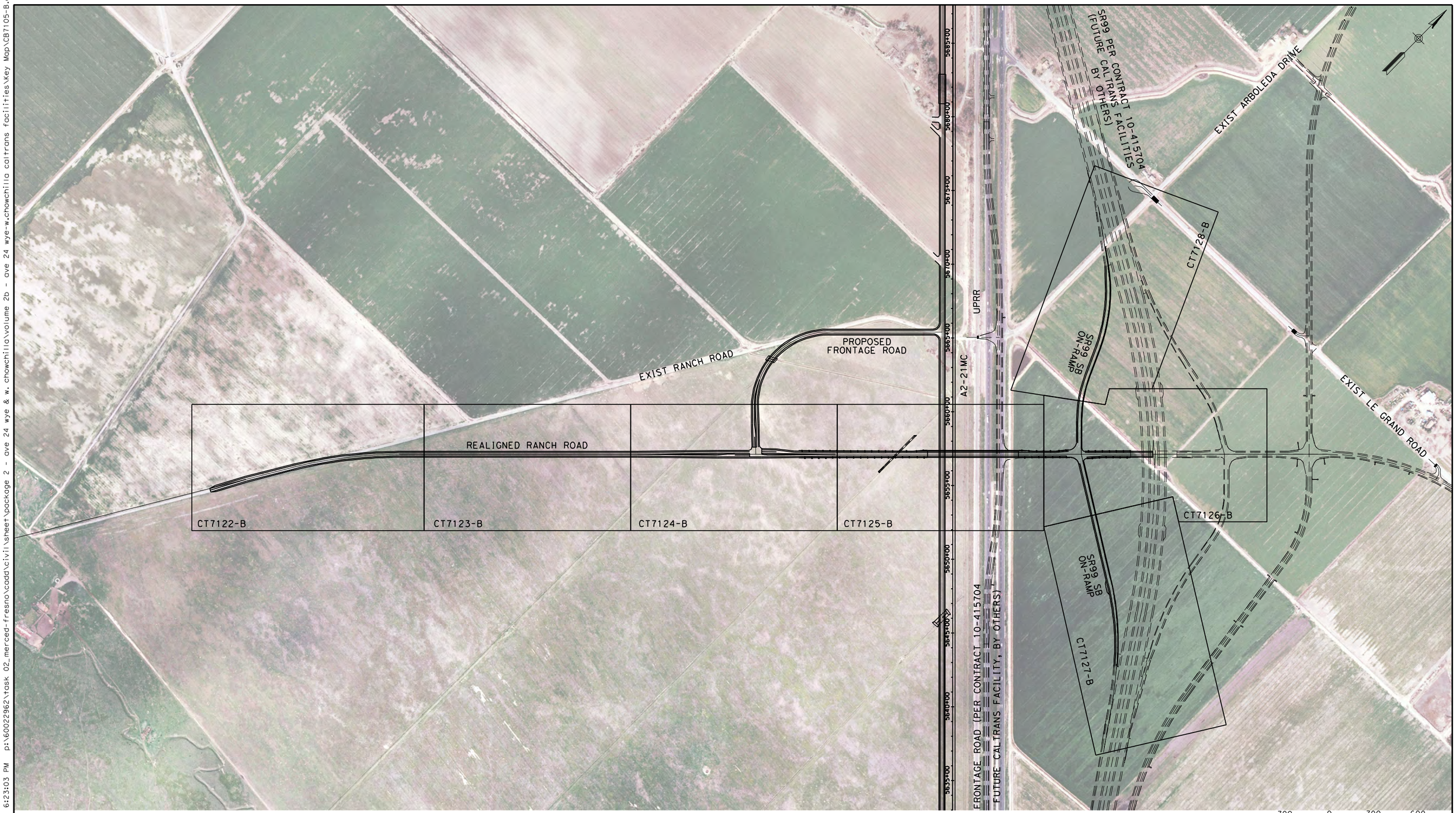
ayeled



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
LE GRAND ROAD - INTERCHANGE
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7105-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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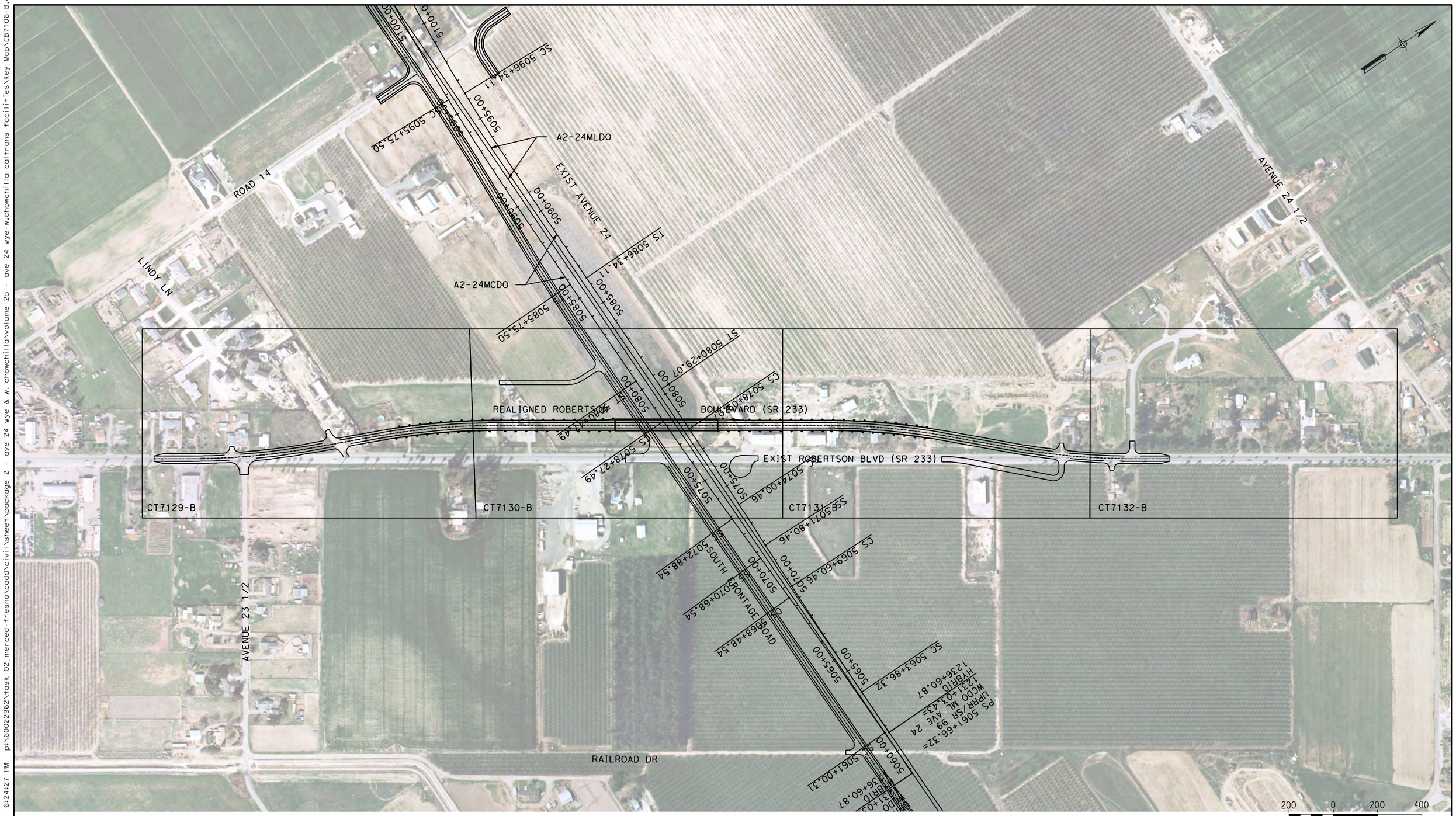

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7106-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD - INTERCHANGE
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7107-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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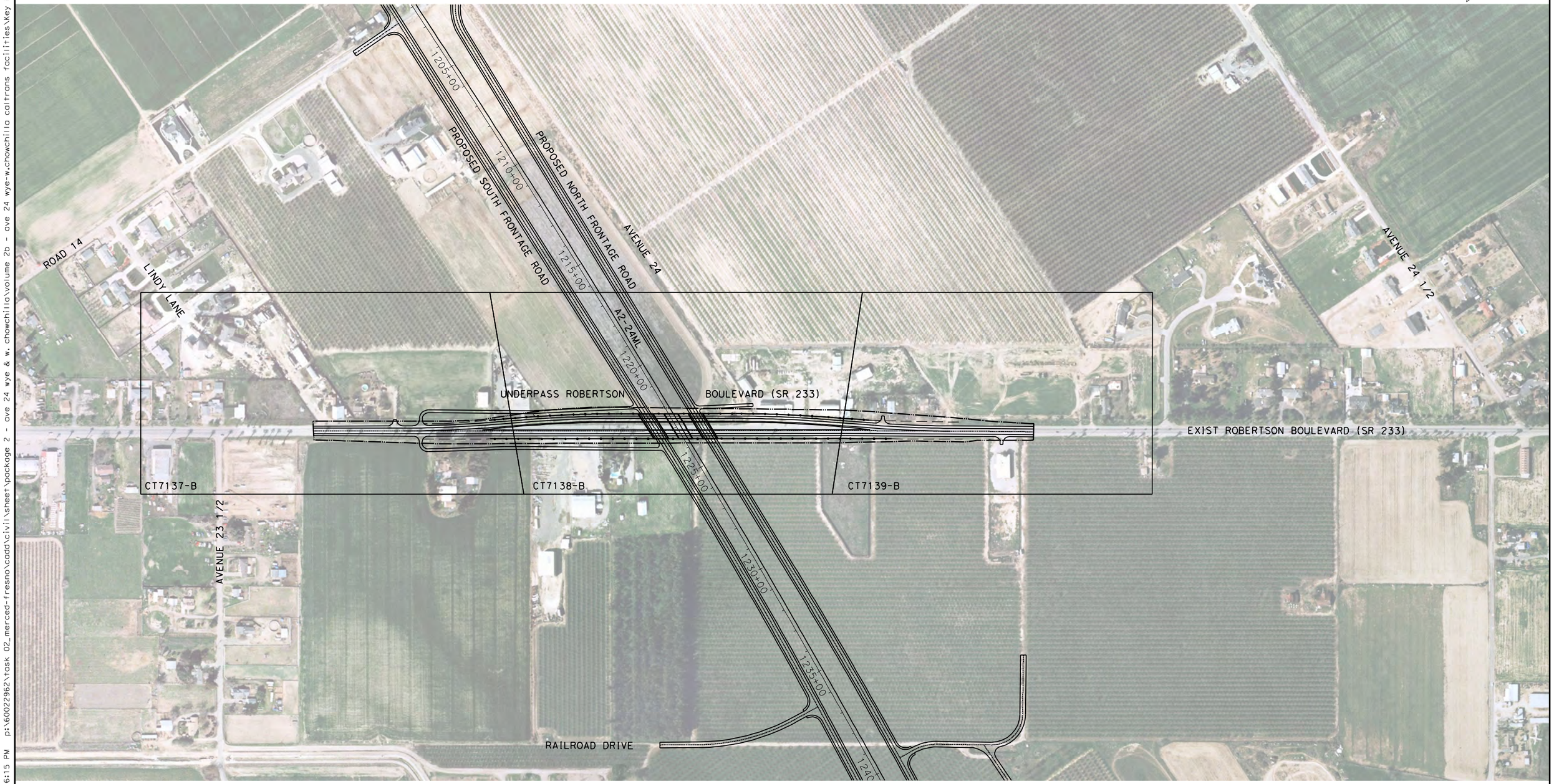

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1"=200'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7108-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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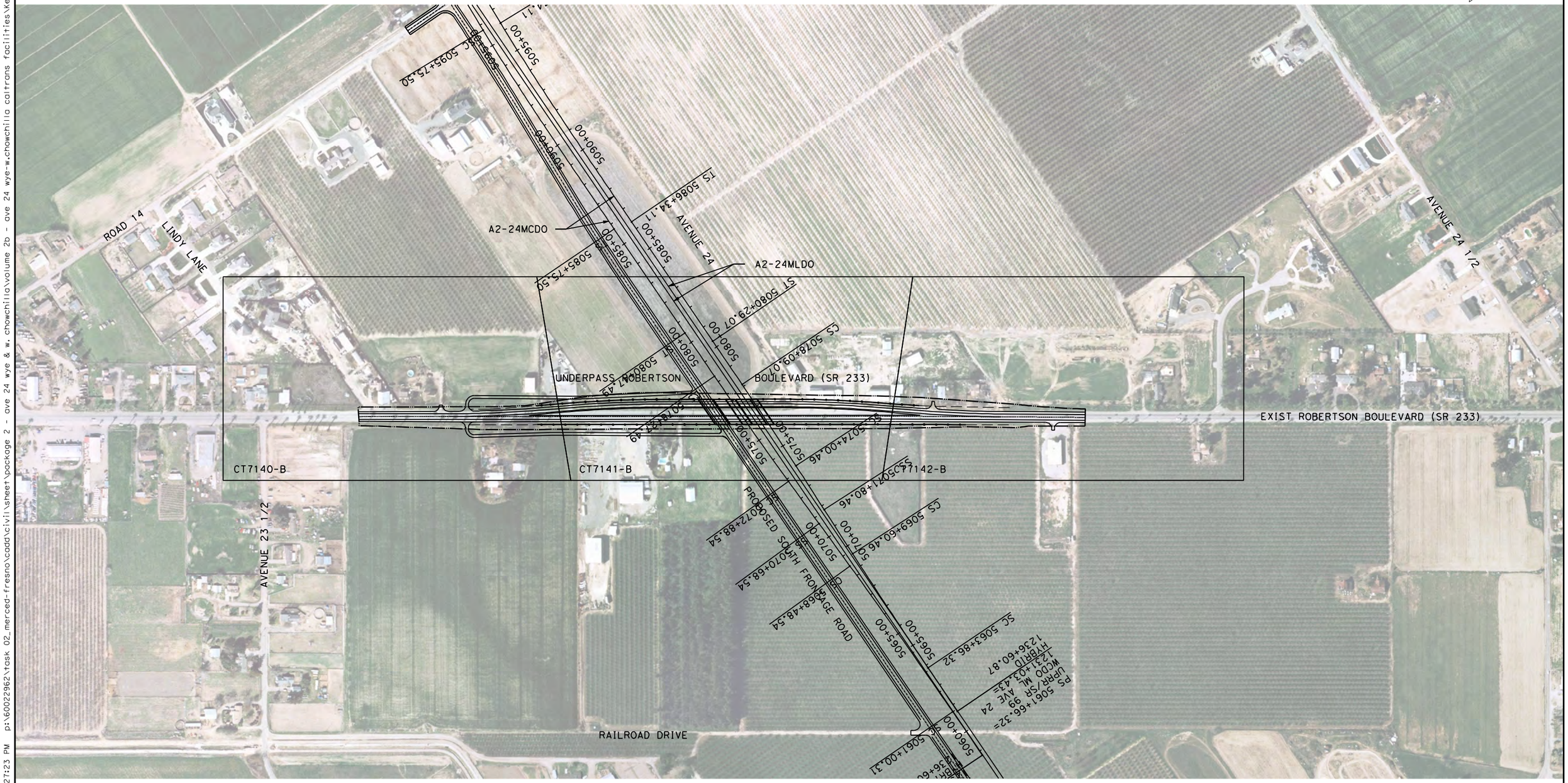

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
KEY MAP
SHEET 1 OF 1

CONTRACT NO.: HSR06-007
DRAWING NO.: CB7109-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

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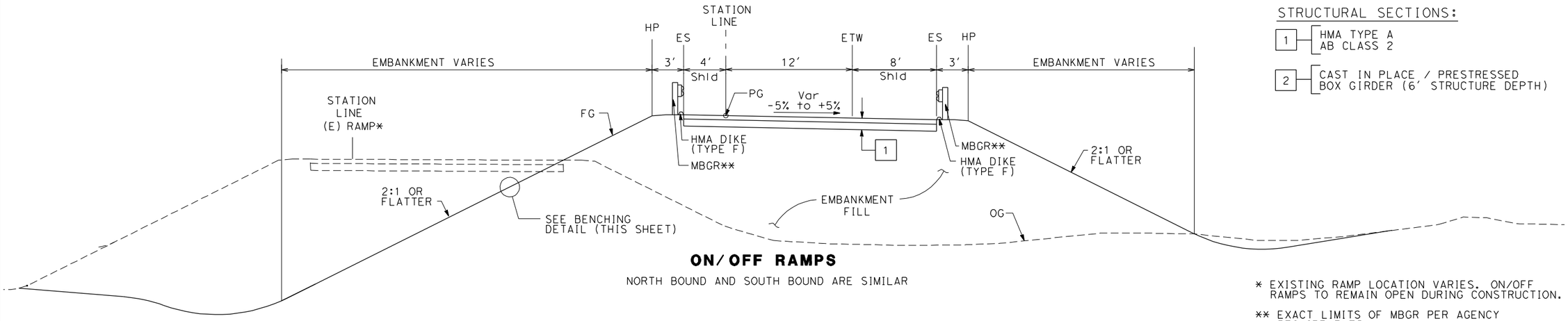


ON/OFF RAMPS

NORTH BOUND AND SOUTH BOUND ARE SIMILAR

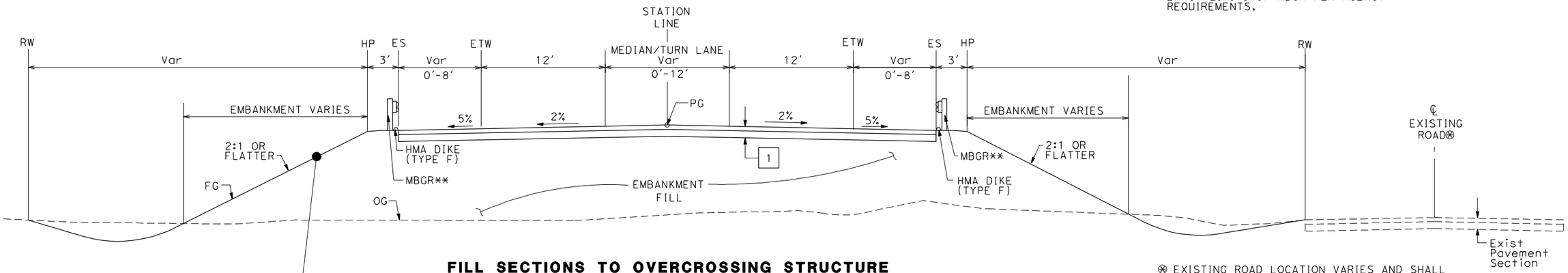
STRUCTURAL SECTIONS:

1 — HMA TYPE A
AB CLASS 2

2 — CAST IN PLACE / PRESTRESSED BOX GIRDER (6′ STRUCTURE DEPTH)

* EXISTING RAMP LOCATION VARIES. ON/OFF RAMPS TO REMAIN OPEN DURING CONSTRUCTION.

** EXACT LIMITS OF MBGR PER AGENCY REQUIREMENTS.

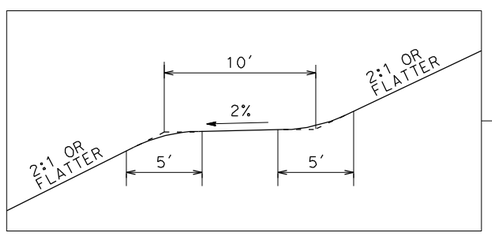


FILL SECTIONS TO OVERCROSSING STRUCTURE

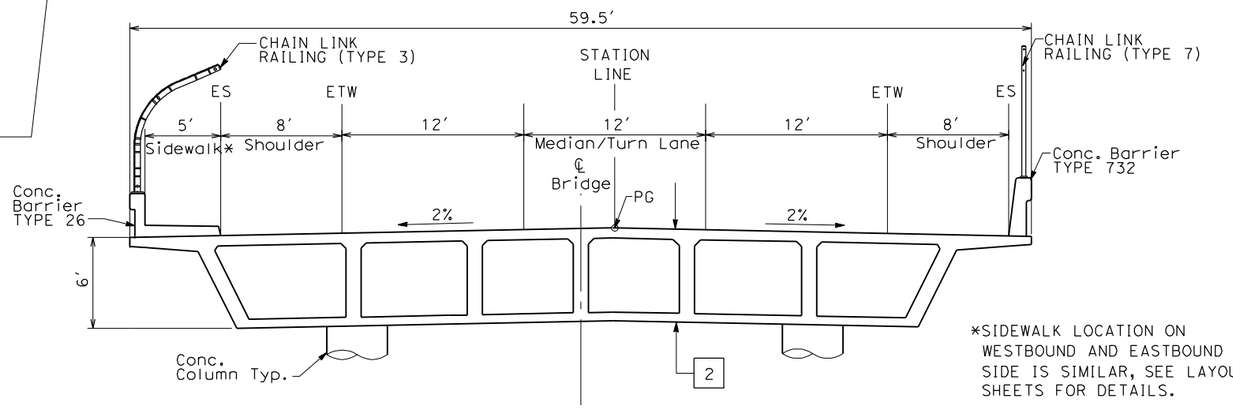
WEST SIDE SHOWN (EAST SIDE SIMILAR)

⊛ 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.



BENCHING DETAIL, TYP



OVERCROSSING STRUCTURE

SEE STRUCTURAL PLANS

*SIDEWALK LOCATION ON WESTBOUND AND EASTBOUND SIDE IS SIMILAR, SEE LAYOUT SHEETS FOR DETAILS.

TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A2, AVE 24 WYE:

NO.	STREET NAME
1	Avenue 9 INTERCHANGE

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

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

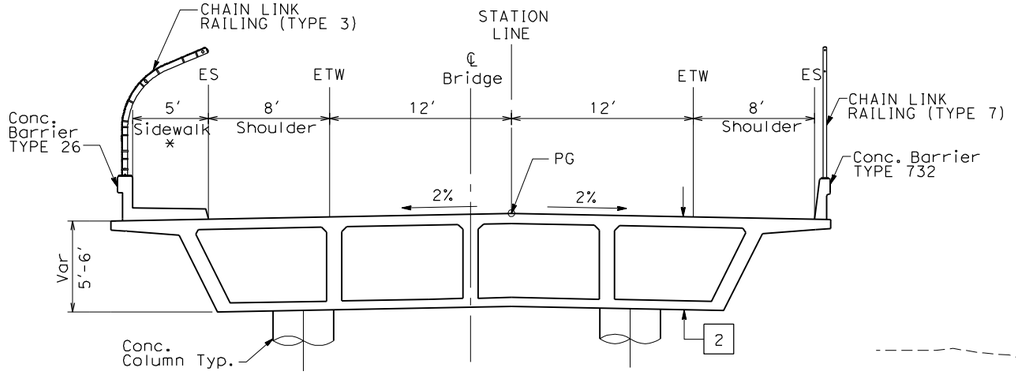
UPRR/SR99 - (AVE 24)
HIGHWAY
TYPICAL CROSS SECTIONS
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CT7090-B
SCALE NTS
SHEET NO. ### OF ###

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.

*SIDEWALK SHOWN ON WESTBOUND SIDE, EASTBOUND SIMILAR SEE LAYOUT SHEETS FOR DETAILS.



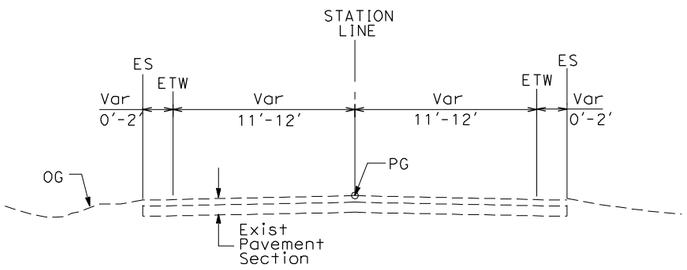
OVERHEAD STRUCTURE

SEE STRUCTURAL PLANS

STRUCTURAL SECTIONS:

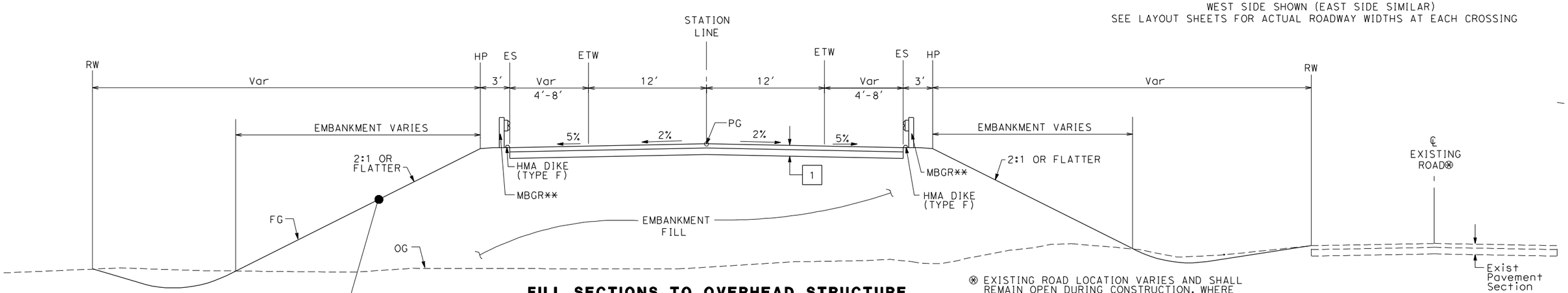
1 — HMA TYPE A
AB CLASS 2

2 — CAST IN PLACE / PRESTRESSED BOX GIRDER (6' STRUCTURE DEPTH)



EXISTING LOCAL ROAD

WEST SIDE SHOWN (EAST SIDE SIMILAR)
SEE LAYOUT SHEETS FOR ACTUAL ROADWAY WIDTHS AT EACH CROSSING

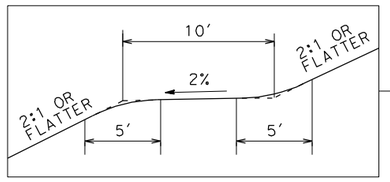


FILL SECTIONS TO OVERHEAD STRUCTURE

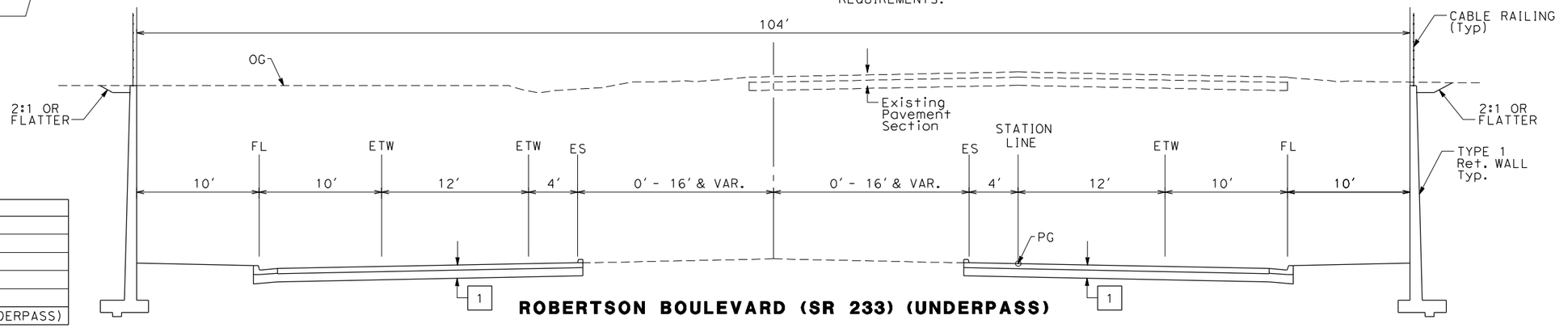
WEST SIDE SHOWN (EAST SIDE SIMILAR)

⊛ 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.



BENCHING DETAIL



ROBERTSON BOULEVARD (SR 233) (UNDERPASS)

TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A2, AVE 24 WYE OPTION & WEST CHOWCHILLA OPTION:

NO.	STREET NAME
1	SR233 (ROBERTSON BOULEVARD)
2	LE GRAND
3	E. SANDY MUSH ROAD
4	AVENUE 11
5	AVENUE 8
6	SR 233 (ROBERTSON BOULEVARD UNDERPASS)

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

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
UPRR/SR99 - (AVE 24)
HIGHWAY
TYPICAL CROSS SECTIONS
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CT7091-B
SCALE NTS
SHEET NO. ### OF ###

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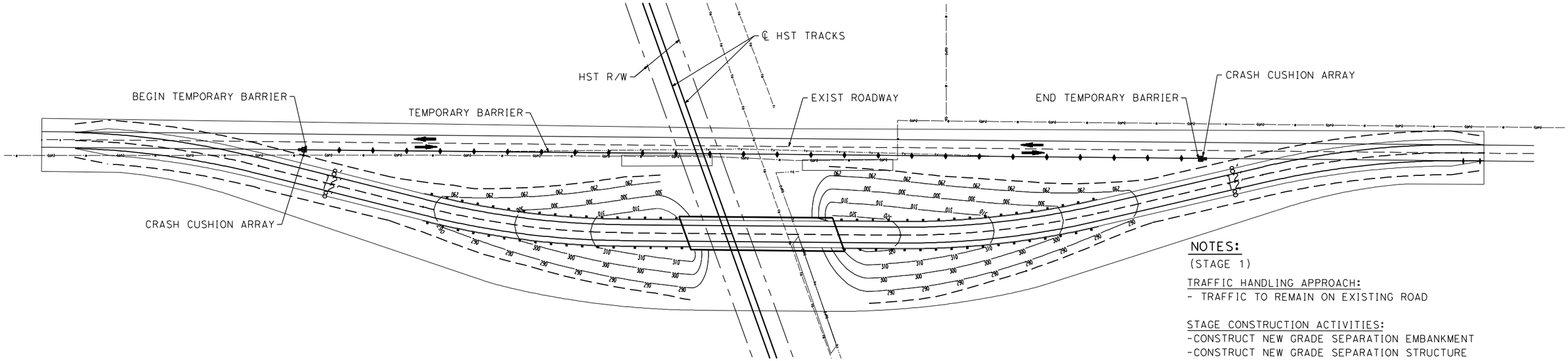
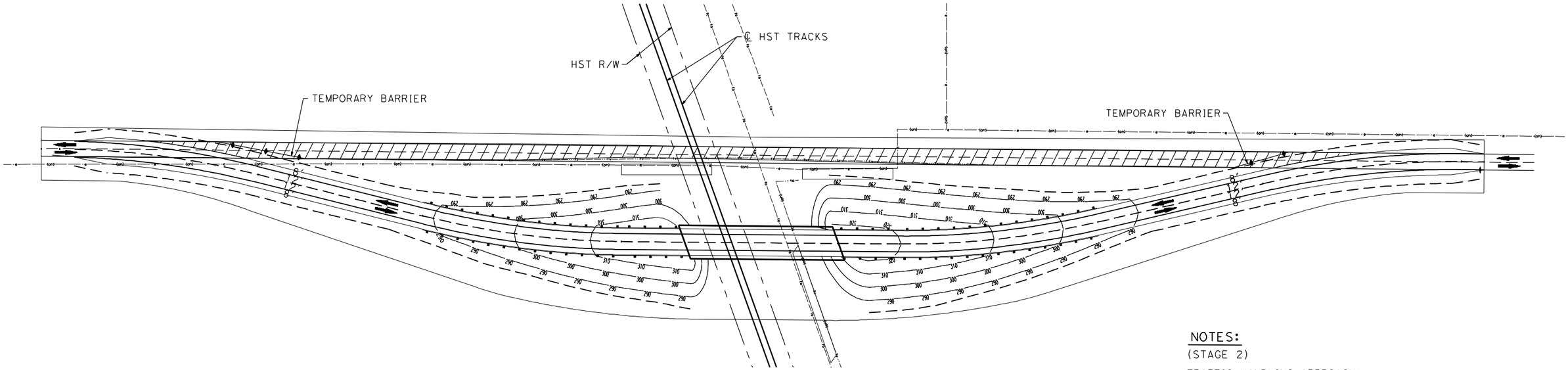


STAGE CONSTRUCTION (STAGE 1)

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 SURFACE AND BASE OF EXIST ROAD

LEGEND:

- CRASH CUSHION ARRAY (TYPE U11)
- TEMPORARY BARRIER (TYPE K)
- DIRECTION OF TRAVEL
- REMOVE BASE AND SURFACING (EXIST ROAD)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: S. WONG
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 - (AVE 24/WC)

GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CT7092-B
SCALE NO SCALE
SHEET NO. ### OF ###

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CONFORM

ABOVE GROUND UTILITY

STA 115+23.83
CONFORM

PC117+23.83

LIMITS OF DITCH

R=50'

176.17'
N89°17'28"E

117

REALIGNED AVENUE 8

120

PI 117+00.00

LIMITS OF DITCH

ABOVE GROUND UTILITY

R=50'

TOE OF FILL

R=50'

PI 122+80.44

CONFORM

REMOVE BASE & SURFACING

LIMIT OF IMPACT

CONFORM

EXIST AVENUE 8
(TO REMAIN OPEN DURING CONSTRUCTION)

LIMITS OF DITCH

8'
12'
12'
8'

341.67'
S82°44'10"E

125

MBGR

290

R=50'
EDGE OF PAVEMENT

TOE OF FILL

PI 126+22.11

LIMITS OF DITCH

STA 128+86.87
BEGIN MBGR

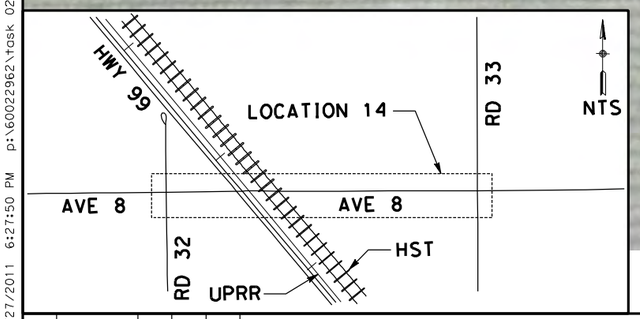
MATCH LINE STA 130+00
SEE DRAWING CT7101-B

CONFORM

LIMIT OF IMPACT

REALIGNED IRRIGATION CANAL

ROAD 32



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8100-B THROUGH CT8103-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	4000.00	7°58'22"	278.75	556.61	45 MPH
(2)	4000.00	7°15'50"	253.90	507.12	45 MPH

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

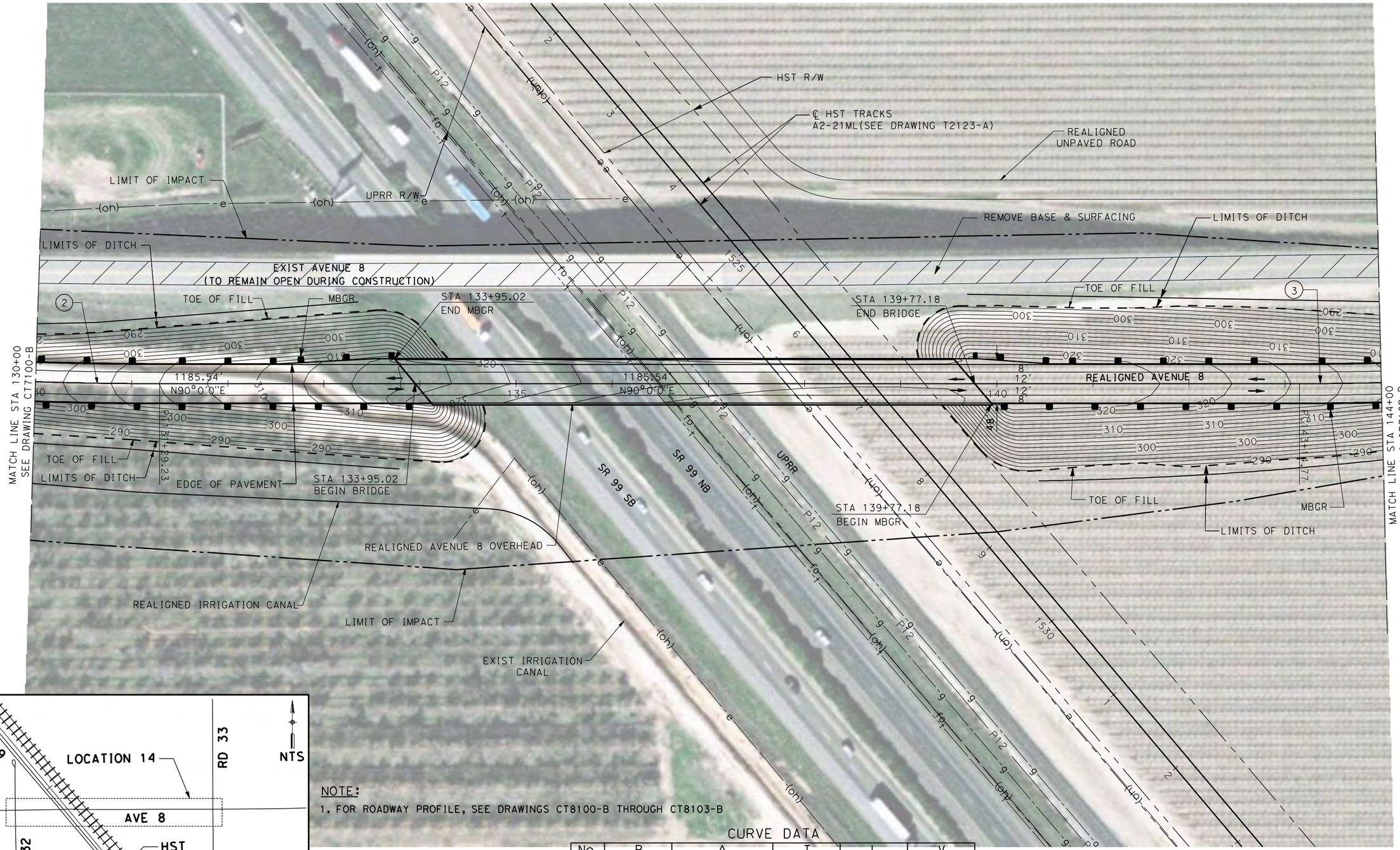
CH2MHILL

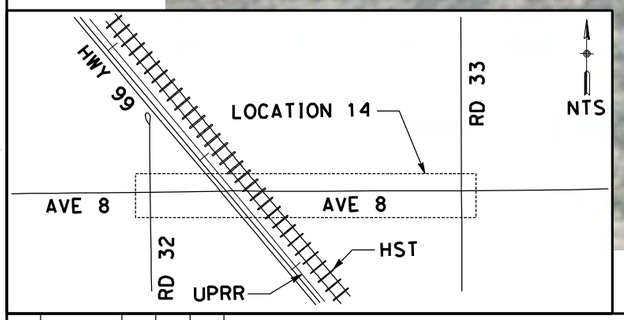
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 8 - OVERHEAD
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7100-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8100-B THROUGH CT8103-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	4000.00	7°15'50"	253.90	507.12	45 MPH
(3)	3500.00	8°36'07"	263.22	525.46	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 8 - OVERHEAD
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7101-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:28:16 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7101-B.dgn
ayeled

4/27/2011 6:28:30 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7102-B.dgn
ayeled

MATCH LINE STA 144+00
SEE DRAWING CT7101-B

REALIGNED UNPAVED ROAD

CONFORM

REMOVE BASE & SURFACING

LIMITS OF DITCH

LIMIT OF IMPACT

PT 156+56.14

STA 158+56.14
CONFORM

R=50'

EXIST AVENUE 8
(TO REMAIN OPEN DURING CONSTRUCTION)

MBGR (3)

TOE OF FILL

PC 151+43.47

305.25'
N81°23'53"E

8'
12'
12' REALIGNED AVENUE 8
8'

200'
N89°45'28"E

(4)

LIMITS OF DITCH

EDGE OF PAVEMENT

R=50'

LIMIT OF IMPACT

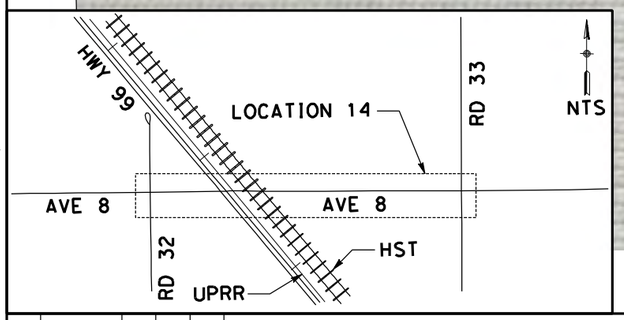
PT 148+40.23

TOE OF FILL

STA 147+46.07
END MBGR

LIMITS OF DITCH

CONFORM



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8100-B THROUGH CT8103-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3500.00	8°36'07"	263.22	525.46	45 MPH
(4)	3500.00	8°21'35"	255.79	510.66	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 8 - OVERHEAD
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7102-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7103-B.dgn
4/27/2011 6:28:43 PM ayeled

EXIST GOLDEN STATE BOULEVARD

EXIST ROAD 31

CONFORM

R=80'

BC 120+54.86

STA 118+00
CONFORM

R=80'

CONFORM

254.86'
N89°27'59"E

POT 118+00.00

R=50'

R=50'

8'
12'
12'
8'

REALIGNED ROAD 31

R=500'

SEE DRAWING CR9102-B

REMOVE BASE
& SURFACING (TYP)

EXIST ROAD 31
(TO REMAIN OPEN DURING CONSTRUCTION)

LIMIT OF IMPACT

REMOVE BASE
& SURFACING

LIMITS OF DITCH

EG 127+60.00

REALIGNED AVENUE 9

EXIST AVENUE 9
(TO REMAIN OPEN DURING CONSTRUCTION)

TOE OF FILL

361.82'
S82°26'39"E

EDGE OF PAVEMENT

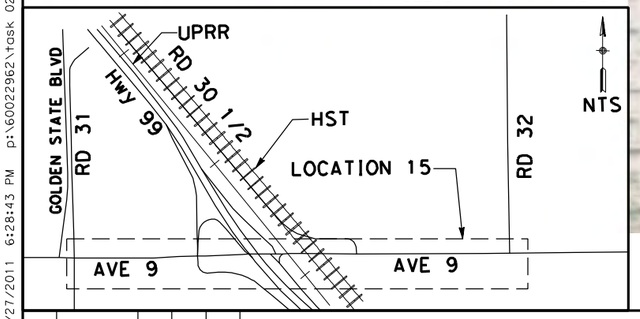
LIMITS OF DITCH

LIMIT OF IMPACT

TOE OF FILL

EG 131+22.62

MATCH LINE STA 132+00
SEE DRAWING CT7104-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8104-B THROUGH CT8114-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	5000.00	8°5'22"	353.56	705.94	45 MPH
(2)	5000.00	7°33'21"	330.16	659.37	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
LAYOUT
SHEET 1 OF 7

CONTRACT NO. HSR06-007
DRAWING NO. CT7103-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ge 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\layout\CT7104-B.dgn
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MATCH LINE STA 132+00
SEE DRAWING CT7103-B

MATCH LINE STA 60+00
SEE DRAWING CT7109-B

MATCH LINE STA 91+00
SEE DRAWING CT7109-B

MATCH LINE STA 139+00
SEE DRAWING CT7105-B

MATCH LINE STA 85+00
SEE DRAWING CT7105-B

MATCH LINE STA 81+00
SEE DRAWING CT7105-B

LIMIT OF IMPACT

EDGE OF PAVEMENT

STA 134+57.74
BEGIN MBGR

TOE OF FILL

LIMITS OF DITCH

MBGR

REALIGNED AVENUE 9

EXIST AVENUE 9
(TO REMAIN OPEN DURING CONSTRUCTION)

REMOVE BASE
& SURFACING (TYP)

R=233'

SB OFF-RAMP

746.74'
S5°50'13"W

290.54'
S5°50'13"W

PC57+46.71

PT83+34.63

SB ON-RAMP
80.78'
S41°44'45"E

PC84+15.41

SR 99 SB

SR 99 NB

PC85+43.52

NB ON-RAMP

PT88+90.42

PT89+22.80

R2=37'
S34°33'40"E

UPRR R/W

UPRR

HST R/W

℄ HST TRACKS
A2-21ML(SEE DRAWING T2121-A)

REMOVE BASE & SURFACING

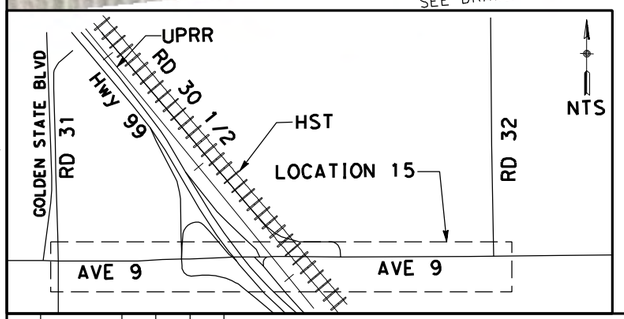
EDGE OF
PAVEMENT

745.92'
S44°30'17"E

RETAINING WALL

C90+89.90

CURVE DATA					
No.	R	Δ	T	L	V
(2)	5000.00	7°33'21"	330.16	659.37	45 MPH
(5)	233.00	133°47'35"	546.17	544.09	45 MPH
(6)	2988.00	3°11'29"	83.24	166.43	45 MPH
(8)	1000.00	33°51'24"	304.36	590.91	45 MPH
(13)	2000.00	9°56'18"	173.89	346.91	45 MPH
(14)	3000.00	3°11'29"	83.57	167.10	45 MPH



50 0 50 100
1" = 50'

NOTE:

1.FOR ROADWAY PROFILE, SEE DRAWINGS CT8104-B THROUGH CT8114-B

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
LAYOUT
SHEET 2 OF 7

CONTRACT NO. HSR06-007
DRAWING NO. CT7104-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:29:35 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7105-B.dgn
ayeled

SEE DRAWING CR9103-B

CURVE DATA

No.	R	Δ	T	L	V
(7)	5024.00	6°53'32"	302.54	604.35	45 MPH
(12)	468.00	30°11'19"	126.23	246.58	45 MPH
(3)	4500.00	10°15'11"	403.71	805.27	45 MPH

MATCH LINE STA 81+00
SEE DRAWING CT7104-B

MATCH LINE STA 85+00
SEE DRAWING CT7104-B

MATCH LINE STA 139+00
SEE DRAWING CT7104-B

MATCH LINE STA 153+00
SEE DRAWING CT7106-B

MATCH LINE STA 94+00
SEE DRAWING CT7108-B

MATCH LINE STA 62+00
SEE DRAWING CT7108-B

SEE DRAWING CR9103-B

C HST TRACKS
A2-21ML(T2121-A)

CHST R/W

UPRR R/W

UPRR

PROPOSED ROAD 31½

EXIST ROAD 30½

REMOVE BASE & SURFACING

PT112+72.51

RETAINING WALL

NB ON-RAMP

745.92'
S44°30'17"E

P185+81.84

LIMIT OF IMPACT

REMOVE BASE & SURFACING

EXIST AVENUE 9
(TO REMAIN OPEN DURING CONSTRUCTION)

R=468'

LIMITS OF DITCH

TOE OF FILL

MBGR

300.37'
S39°59'42"E

SR 99 SB

SR 99 NB

REALIGNED AVENUE 9 OVERHEAD

PCC4+51.00

POE4+01.34

STA 143+51.09
END BRIDGE

EDGE OF PAVEMENT

PT659+36.37

SB ON-RAMP

STA 140+16.23
BEGIN BRIDGE

STA 140+16.23
END MBGR

LIMIT OF IMPACT

STA 145+02.14
BEGIN BRIDGE

NB OFF-RAMP

293.37'
N45°0'0"W

PCC4+32.99

RETAINING WALL

STA 149+03.93
BEGIN MBGR

STA 149+03.93
END BRIDGE

LIMITS OF DITCH

TOE OF FILL

MBGR

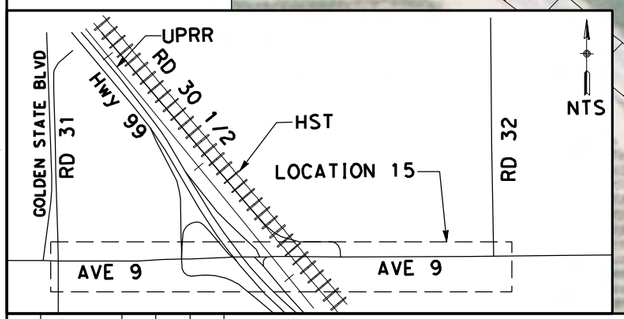
REALIGNED AVENUE 9

TOE OF FILL

LIMITS OF DITCH

LIMIT OF IMPACT

EXIST GOLDEN STATE BLVD



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8104-B THROUGH CT8114-B

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
LAYOUT
SHEET 3 OF 7

CONTRACT NO. HSR06-007
DRAWING NO. CT7105-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheetpackage 2 - ave 24 wye & w. chowchilla volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7106-B.dgn
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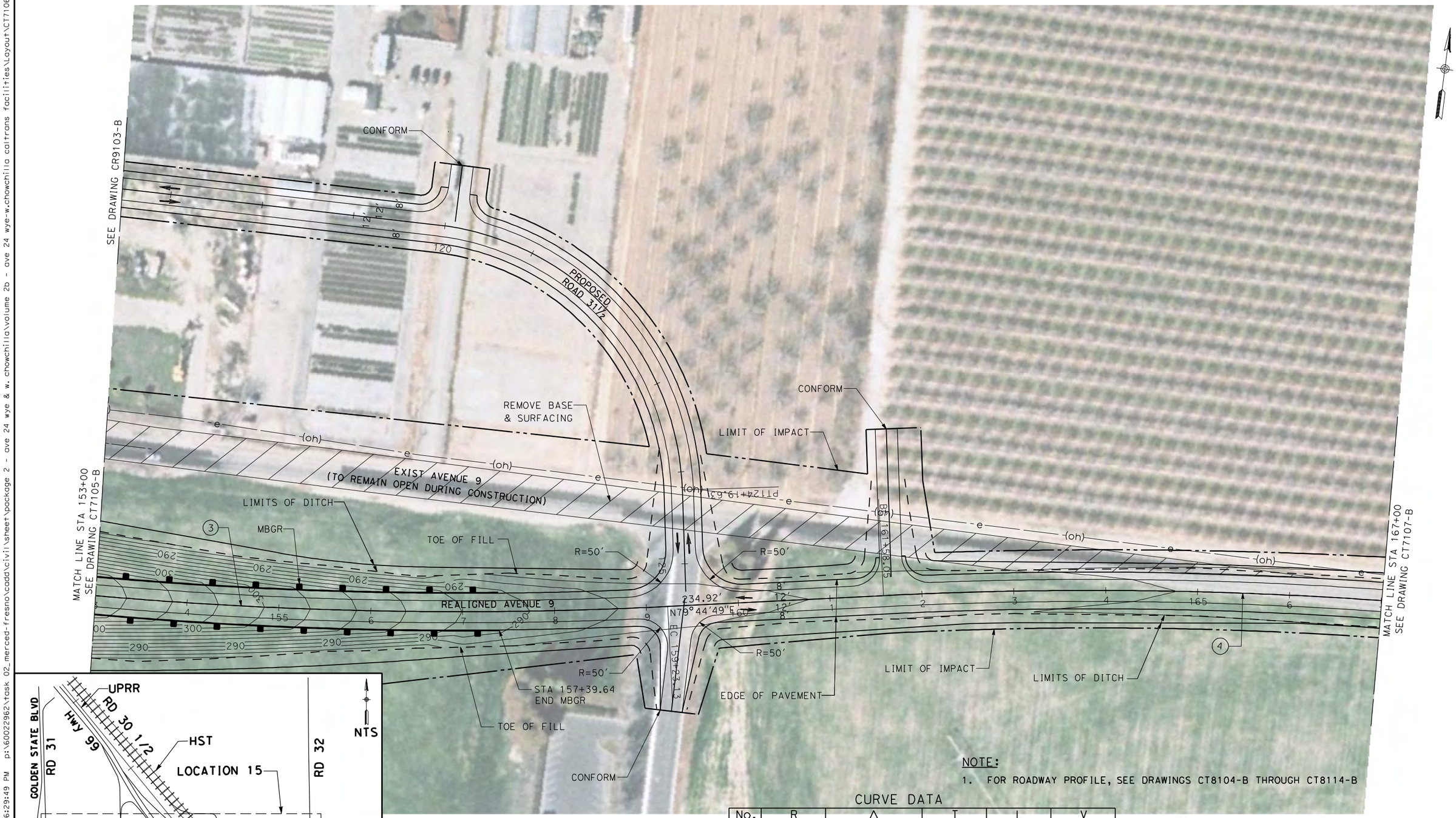

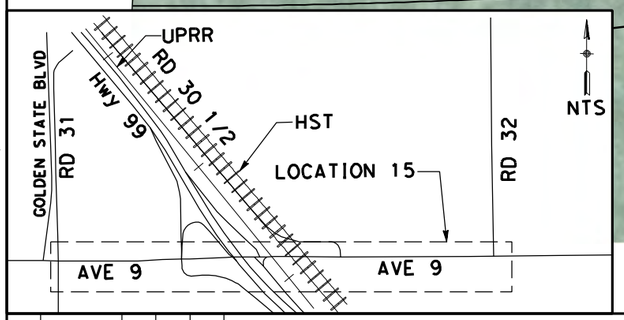

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8104-B THROUGH CT8114-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	4500.00	10°15'11"	403.71	805.27	45 MPH
(4)	4500.00	9°43'10"	382.59	763.35	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
LAYOUT
SHEET 4 OF 7

CONTRACT NO. HSR06-007
DRAWING NO. CT7106-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:30:00 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7107-B.dgn
ayeled

MATCH LINE STA 167+00
SEE DRAWING CT7106-B

LIMITS OF DICTH

LIMIT OF IMPACT

EC 169+21.41

250.03'
N89°27'59"E

EDGE OF PAVEMENT

LIMITS OF DITCH

LIMIT OF IMPACT

POT 171+71.44

CONFORM

R=30'

R=30'

REALIGNED AVENUE 9

CONFORM

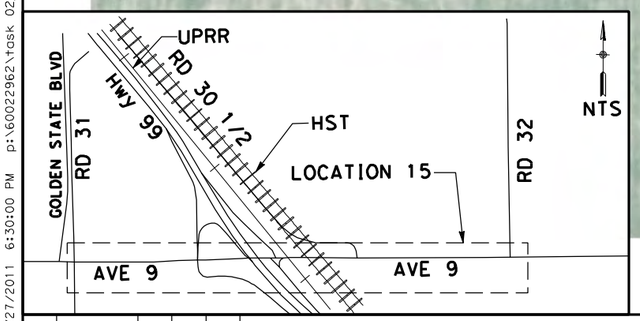
R=30'

R=30'

CONFORM

EXIST AVENUE 9

EXIST ROAD 32



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8104-B THROUGH CT8114-B

CURVE DATA

No.	R	Δ	T	L	V
(4)	4500.00	9°43'10"	382.59	763.35	45 MPH

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
LAYOUT
SHEET 5 OF 7

CONTRACT NO. HSR06-007
DRAWING NO. CT7107-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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layeled

EXIST GOLDEN STATE BLVD

SR 99 SB

SR 99 NB

LIMIT OF IMPACT

UPRR R/W

UPRR

EDGE OF PAVEMENT

NB OFF-RAMP

RETAINING WALL

LIMIT OF IMPACT

℄ HST TRACKS
A2-21ML (SEE DRAWING T2122-A)

HST R/W

LIMIT OF IMPACT

PT52+80.68
CONFORM

PC56+10.31

PT61+39.62

PT194+86.57
CONFORM

MATCH LINE STA 94+00
SEE DRAWING CT7105-B

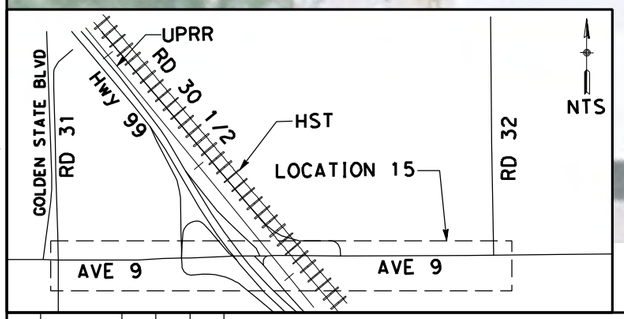
MATCH LINE STA 62+00
SEE DRAWING CT7105-B

329.63'
S41°58'2"E

4'
12'
8'

4'
12'

(7) (10) (11)



NOTE:
1.FOR ROADWAY PROFILE, SEE DRAWINGS CT8104-B THROUGH CT8114-B

CURVE DATA

No.	R	Δ	T	L	V
(7)	5024.00	6°53'32"	302.54	604.35	45 MPH
(10)	5012.00	1°36'00"	69.99	139.96	45 MPH
(11)	10000.00	3°01'58"	264.72	529.31	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVE 9 - INTERCHANGE SR 99 NB OFF/SB ON RAMPS
LAYOUT
SHEET 6 OF 7

CONTRACT NO. HSR06-007
DRAWING NO. CT7108-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

EDGE OF PAVEMENT

LIMIT OF IMPACT

MATCH LINE STA 60+00
SEE DRAWING CT7104-B

SB OFF-RAMP

8

9

8'
12'

22.79'
N28°1'11"W

PT 63+37.65

PC 63+60.44

CONFORM PT 64+57.46

64

MATCH LINE STA 91+00
SEE DRAWING CT7104-B

15

12'
8'

EDGE OF PAVEMENT

PC 89+90.12

95

UPRR R/W

16

NB ON-RAMP

124.17'
N40°31'5"W

PT 94+70.72

CONFORM PT 95+94.88

UPRR

SR 99 SB

SR 99 NB

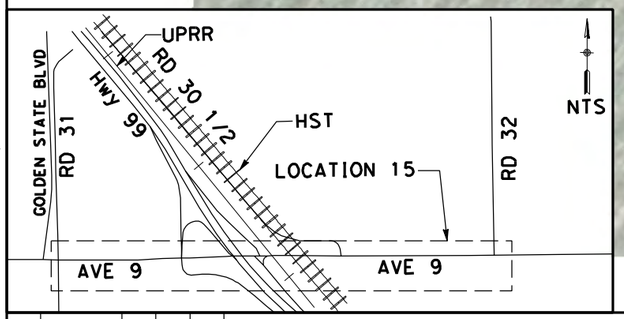
EXIST ROAD 30½

℄ HST TRACKS
A2-21ML(SEE DRAWING T2121-A)

REMOVE BASE & SURFACING

HST R/W

CELL TOWER



NOTE:

1.FOR ROADWAY PROFILE, SEE DRAWINGS CT8104-B THROUGH CT8114-B

CURVE DATA

No.	R	Δ	T	L	V
8	1000.00	33°51'24"	304.36	590.91	45 MPH
9	5488.00	1°00'46"	48.51	97.02	45 MPH
15	5012.00	3°25'55"	150.15	300.22	45 MPH
16	5012.00	5°29'39"	240.48	480.60	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

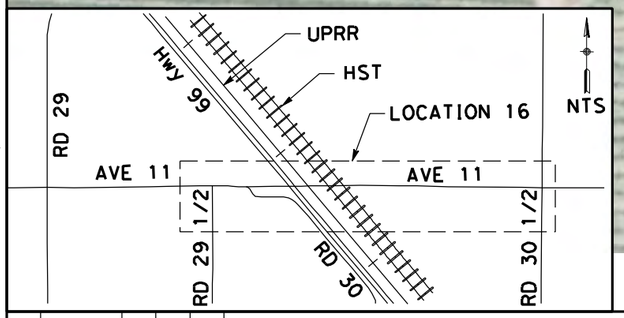
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVE 9 - INTERCHANGE SR 99 NB ON/SB OFF RAMPS
LAYOUT
SHEET 7 OF 7

CONTRACT NO. HSR06-007
DRAWING NO. CT7109-B
SCALE AS SHOWN
SHEET NO. ### OF ###



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8115-B THROUGH CT8119-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	10000.00	3°3'13"	266.54	532.96	45 MPH

50 0 50 100

1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
LAYOUT
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7110-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:31:01 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7110-B.dgn

layeled

4/27/2011 6:31:13 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7111-B.dgn
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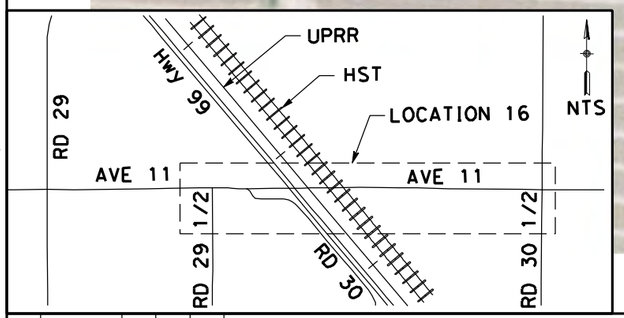

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8115-B THROUGH CT8119-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	10000.00	3°3'13"	266.54	532.96	45 MPH

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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Technical Services, Inc.
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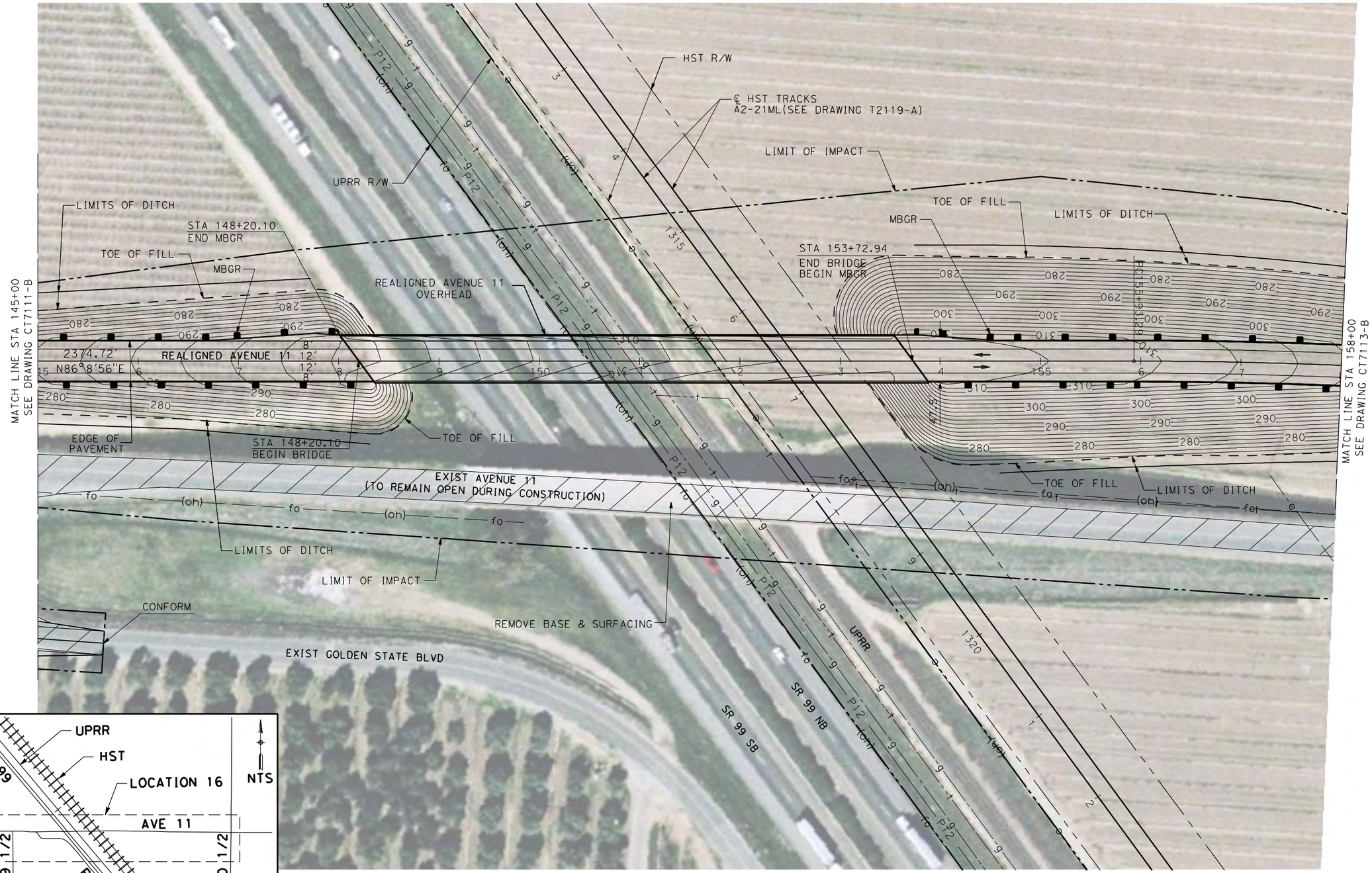
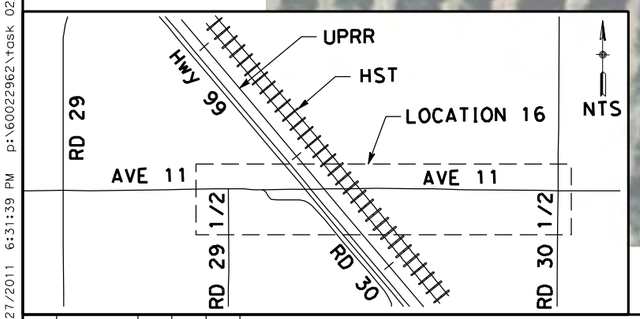
Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
LAYOUT
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7111-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8115-B THROUGH CT8119-B

50 0 50 100

1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
LAYOUT
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7112-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:31:39 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7112-B.dgn ayeled

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7113-B.dgn
4/27/2011 6:31:52 PM
oyeled

CONFORM

LIMITS OF DITCH

MBGR

MATCH LINE STA 158+00
SEE DRAWING CT7112-B

STA 163+31.26
END MBGR

LIMITS OF DITCH

LIMIT OF IMPACT

TOE OF FILL

PI 165+84.94

EDGE OF PAVEMENT

EDGE OF PAVEMENT

REMOVE BASE & SURFACING

LIMITS OF DITCH

REALIGNED AVENUE 11

735.21'
S82°29'16"E

TOE OF FILL

LIMITS OF DITCH

EXIST AVENUE 11
(TO REMAIN OPEN DURING CONSTRUCTION)

CONFORM

PRIVATE PROPERTY ACCESS

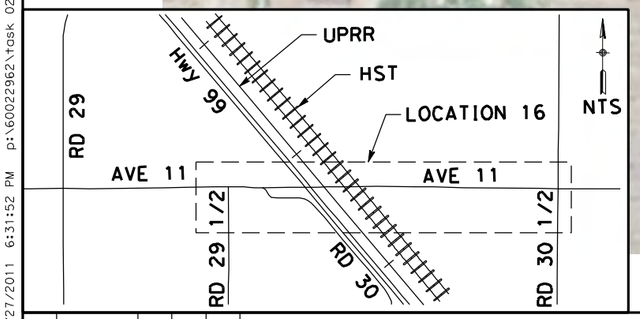
LIMIT OF IMPACT

CONFORM

CONFORM

CONFORM

MATCH LINE STA 172+00
SEE DRAWING CT7114-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8115-B THROUGH CT8119-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	5000.00	11°21'48"	497.45	991.64	45 MPH

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

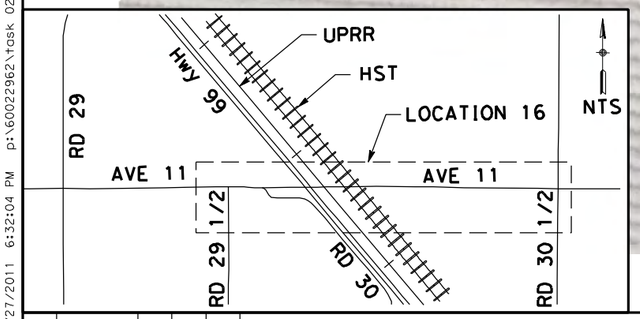
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
LAYOUT
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7113-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7114-B.dgn
4/27/2011 6:32:04 PM
oyeled

MATCH LINE STA 172+00
SEE DRAWING CT7113-B

TOE OF FILL
LIMIT OF IMPACT
LIMITS OF DITCH
EDGE OF PAVEMENT
REALIGNED AVENUE 11
735.21'
S82°29'16"E
STA 182+11.74
CONFORM
250.03'
S89°50'22"E
EXIST AVENUE 11
PT 179+61.71
REMOVE BASE & SURFACING
TOE OF FILL
LIMIT OF IMPACT
LIMITS OF DITCH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8115-B THROUGH CT8119-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	5000.00	7°21'6"	321.22	641.56	45 MPH

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
LAYOUT
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7114-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\layout\CT7115-B.dgn
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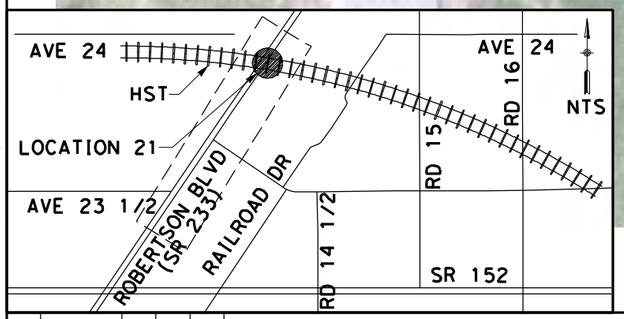

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8120-B THROUGH CT8123-B

CURVE DATA

No.	R	Δ	T	L	V
1	3000.00	10°10'00"	266.86	532.33	45 MPH
2	3000.00	10°10'00"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7115-B
SCALE AS SHOWN
SHEET NO. ### OF ###

SEE DRAWING CR9136-B

SEE DRAWING CR9136-B

HST R/W

SOUTH FRONTAGE ROAD

SOUTH FRONTAGE ROAD

AVENUE 24

℄ HST TRACKS
A2-24ML(SEE DRAWING T2117-A)

R=25′

PRIVATE PROPERTY ACCESS

R=25′

LIMITS OF DITCH

LIMIT OF IMPACT

TOE OF FILL

EDGE OF PAVEMENT

STA 150+32.70
BEGIN BRIDGE

PRIVATE PROPERTY ACCESS

R=25′

LIMIT OF IMPACT

LIMITS OF DITCH

STA 154+29.24
END BRIDGE

MBGR

TOE OF FILL

STA 154+29.24
BEGIN MBGR

R=25′

2

PT 145+04.19

SEE DRAWING CT7115-B
MATCH LINE STA 144+00

REALIGNED ROBERTSON BOULEVARD (SR 233)

1319.46′
N34°18′12"E

MATCH LINE STA 158+00
SEE DRAWING CT7117-B

MBGR

TOE OF FILL

LIMITS OF DITCH

STA 150+32.70
END MBGR

R=42′

R=42′

LIMITS OF DITCH

TOE OF FILL

EXIST SR 233 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

EXIST SR 233 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

LIMIT OF IMPACT

REALIGNED ROBERTSON BOULEVARD
(SR 233) OVERHEAD

R=42′

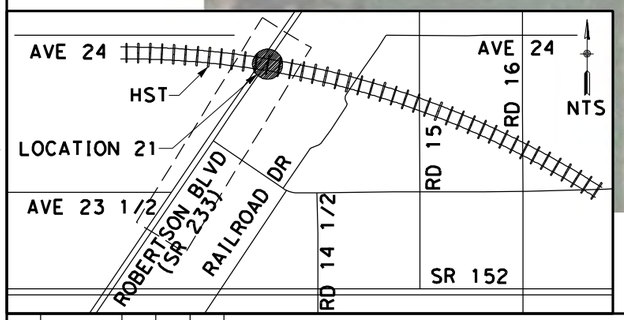
R=42′

LIMIT OF IMPACT

REMOVE BASE & SURFACING

LIMIT OF IMPACT

LIMIT OF IMPACT



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8120-B THROUGH CT8123-B

SEE DRAWING CR9136-B

SEE DRAWING CR9136-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°10′00"	266.86	532.33	45 MPH

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

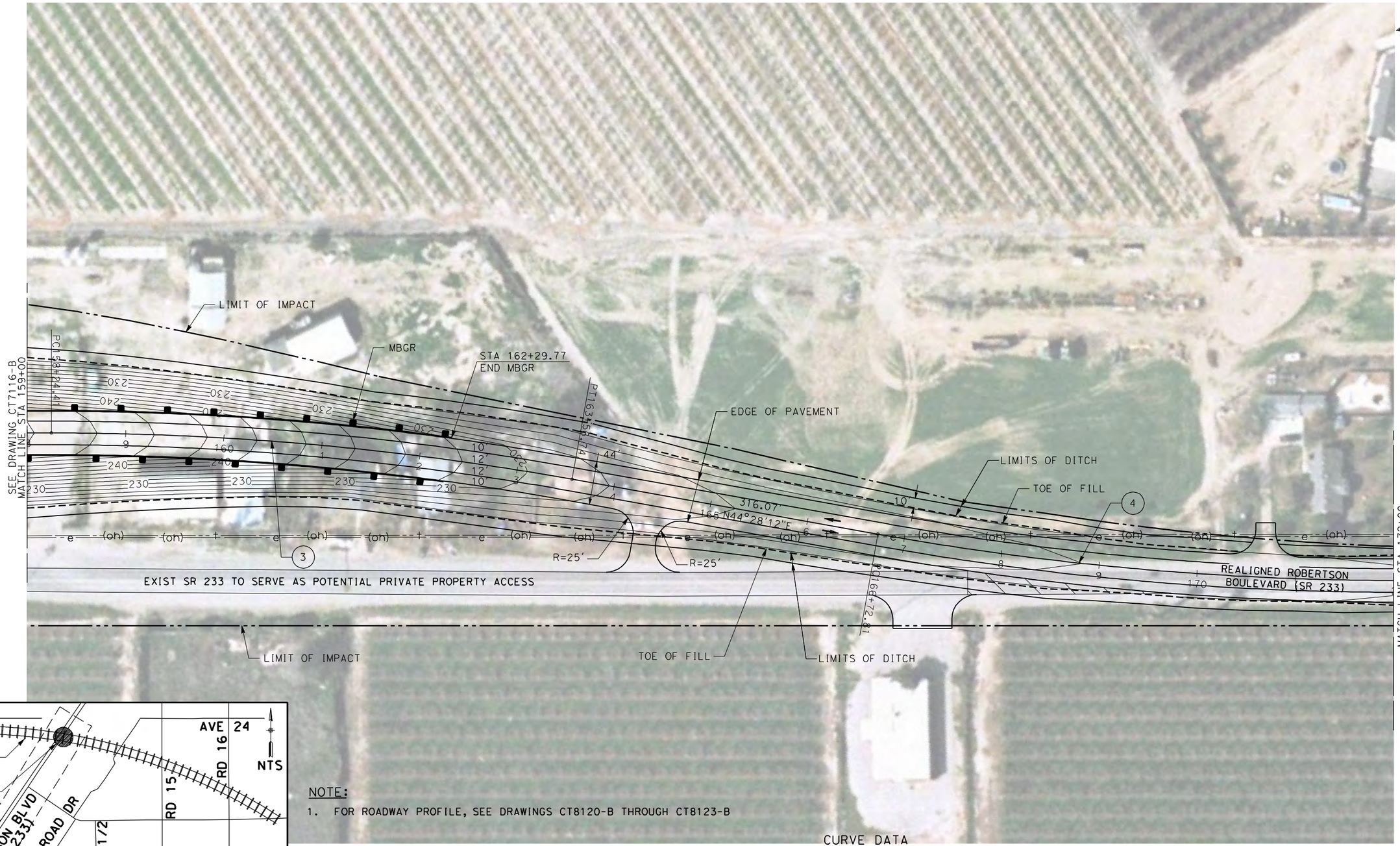
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

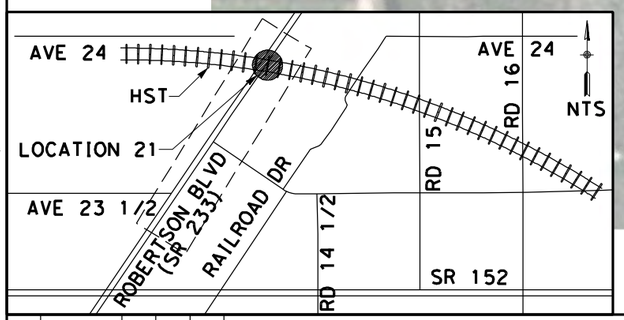
UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7116-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:32:29 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7116-B.dgn

ayeled





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8120-B THROUGH CT8123-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°10'00"	266.86	532.33	45 MPH
(4)	3000.00	10°10'00"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

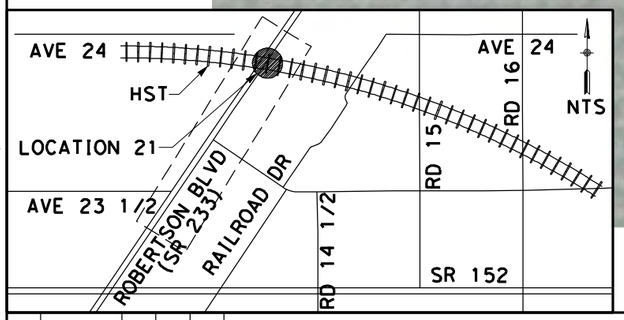
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7117-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:32:39 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7117-B.dgn
ayeled



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8120-B THROUGH CT8123-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7118-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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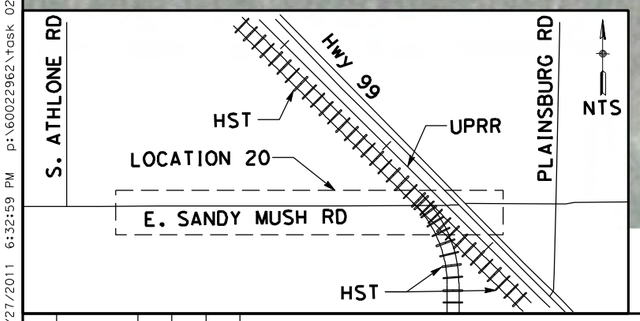
ayeled



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8124-B THROUGH CT8126-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	2300.00	39°51'34"	833.94	1600.06	50 MPH

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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

UPRR/SR99 WYE/MERCED - (AVE 24)
GRADE SEPARATION - SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7119-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:32:59 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7119-B.dgn
ayeled

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7120-B.dgn
4/27/2011 6:33:10 PM

SEE DRAWING CR9120-B

MATCH LINE STA 22+00
SEE DRAWING CT7119-B

EDGE OF PAVEMENT

PROPOSED FRONTAGE ROAD

STA 27+85
BEGIN MBGR

MBGR

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

REALIGNED SANDY MUSH ROAD

MATCH LINE STA 35+00
SEE DRAWING CT7121-B

PROPOSED
BOX CULVERT

CONFORM

POB22+94.44

OLD SANDY MUSH ROAD

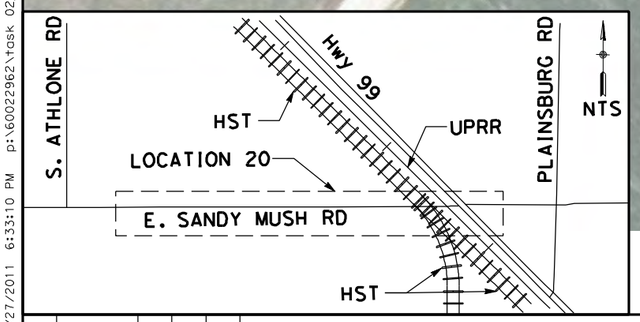
REMOVE BASE & SURFACING

PLANNED SANDY MUSH ROAD

LIMIT OF IMPACT

TOE OF FILL

LIMITS OF DITCH



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8124-B THROUGH CT8126-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	2300.00	39°51'34"	833.94	1600.06	50 MPH

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
GRADE SEPARATION - SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7120-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ayeled

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8124-B THROUGH CT8126-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	2300.00	39°51'34"	833.94	1600.06	50 MPH

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

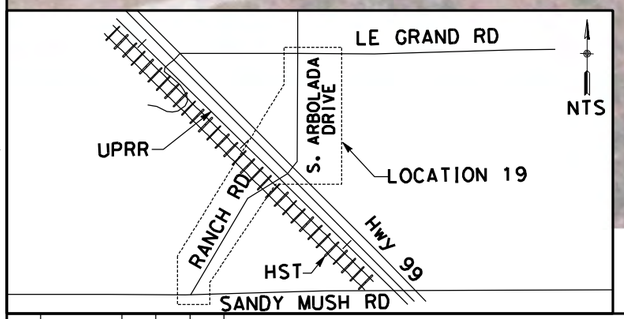
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
GRADE SEPARATION - SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7121-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:33:31 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7121-B.dgn
ayeled

4/27/2011 6:33:45 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7122-B.dgn
ayeled



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8127-B THROUGH CT8131-B

CURVE DATA

No.	R	Δ	T	L
(1)	3000.00	14°17'14"	375.99	748.07

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

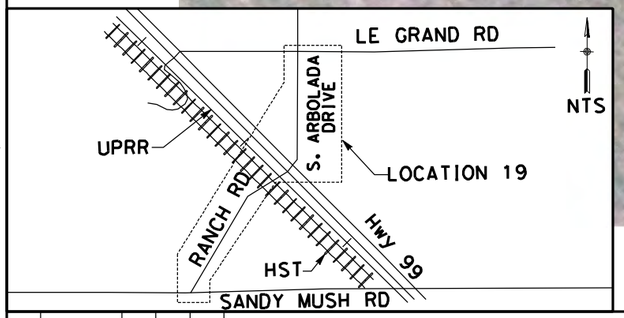
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7122-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ayeled 4/27/2011 6:33:56 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7123-B.dgn



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8127-B THROUGH CT8131-B

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

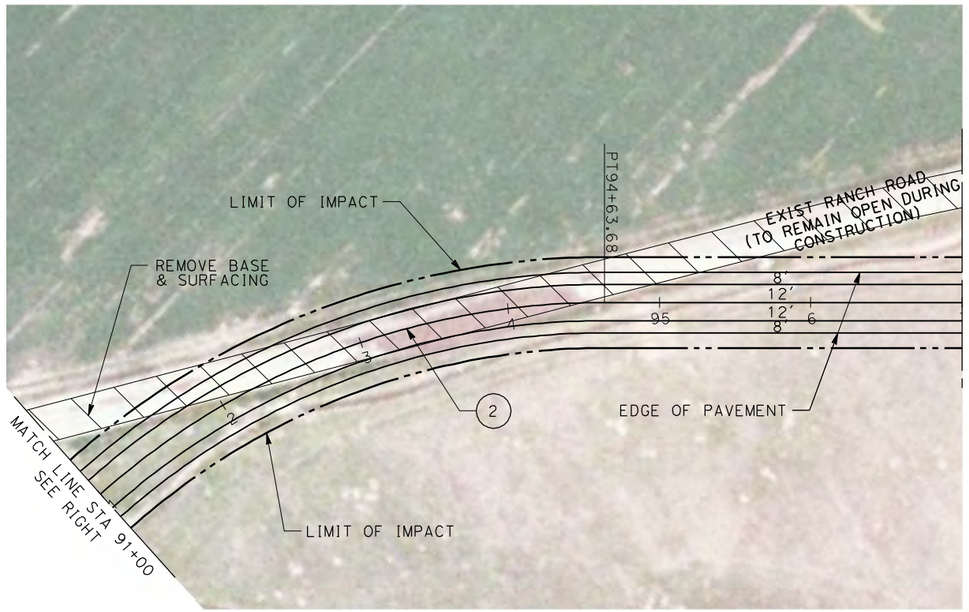
CH2MHILL

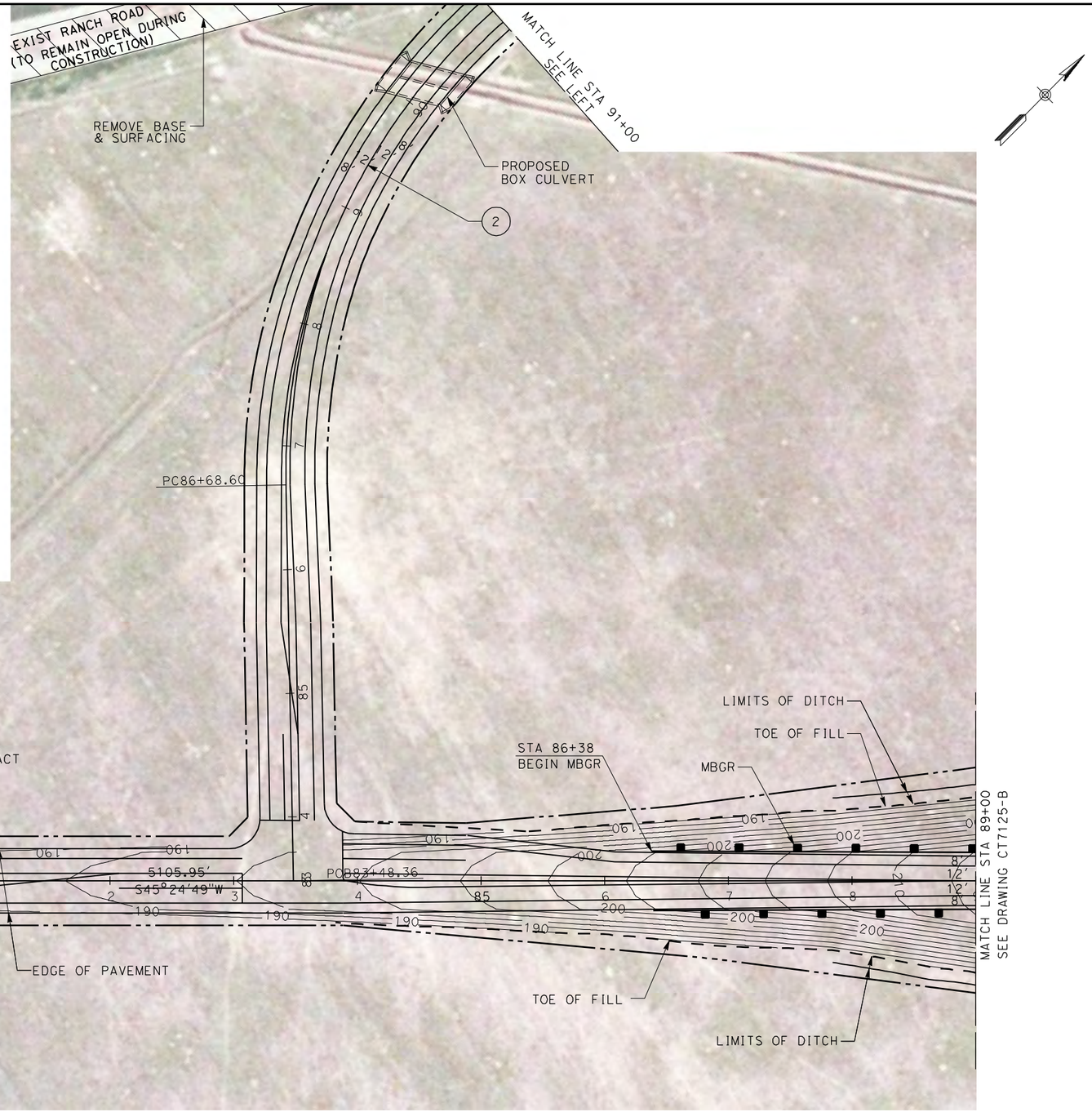
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

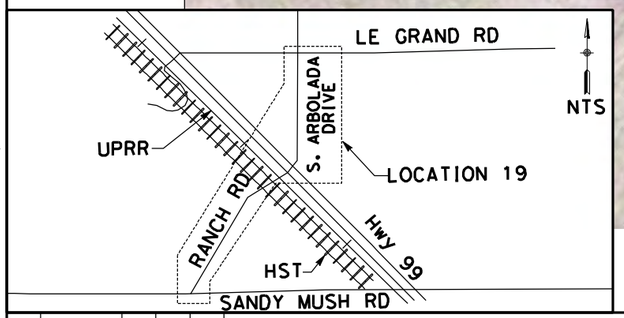
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7123-B
SCALE AS SHOWN
SHEET NO. ### OF ###







NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8127-B THROUGH CT8131-B

CURVE DATA

No.	R	Δ	T	L
(2)	500.00	91°06'35"	509.78	795.08

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7124-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:34:09 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7124-B.dgn
oyeled

SEE DRAWING CR9123-B

HST R/W

UPRR R/W

℄ HST TRACKS
A2-21MC
SEE DRAWING (T2219-A)

LIMITS OF DITCH

LIMIT OF IMPACT

TOE OF FILL

STA 95+13.54
BEGIN BRIDGE

MATCH LINE STA 89+00
SEE DRAWING CT7124-B

REALIGNED RANCH ROAD

6280.49'
S45°24'49"W

PROPOSED BOX CULVERT

MBGR

EDGE OF PAVEMENT

STA 95+13.54
END MBGR

TOE OF FILL

LIMIT OF IMPACT

LIMITS OF DITCH

PROPOSED WEST FRONTAGE ROAD

FRONTAGE ROAD PER
CONTRACT 10-415704
(FUTURE CALTRANS
FACILITY, BY OTHERS)

REMOVE CURB RETURN FROM CONTRACT
NO. 10-415704

STA 101+28.21
BEGIN MBGR

TOE OF FILL

REALIGNED LE GRAND ROAD 12'

MBGR

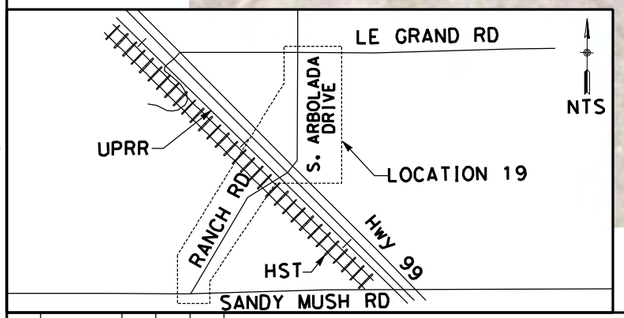
STA 101+28.21
END BRIDGE

TOE OF FILL

MATCH LINE STA 103+00
SEE DRAWING CT7126-B

REALIGNED
LE GRAND ROAD OVERHEAD

SEE DRAWING CR9123-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8127-B THROUGH CT8131-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7125-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:34:29 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7125-B.dgn ayeled

MATCH LINE STA 26+00
SEE DRAWING CT7128-B

LIMIT OF IMPACT

TOE OF FILL

PC24+70.42

SR99 SB OFF-RAMP
N21°55'E
194.31'

STA 108+89.10
END MBGR

STA 105+79.50
BEGIN MBGR

MBGR

REALIGNED LE GRAND ROAD

POB22+40.11

5105.95'
S45°24'49"W

SR99 SB PER CONTRACT 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

CONFORM
EB "LE GRAND" 110+38.28

SR99 NB PER CONTRACT 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 NB ON-RAMP
PER CONTRACT 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

LE GRAND RD
(PER CONTRACT NO. 10-415704)

MATCH LINE STA 103+00
SEE DRAWING CT7125-B

STA 104+79.68
END MBGR

TOE OF FILL

LIMIT OF IMPACT

N57°42'26"W
218.78'

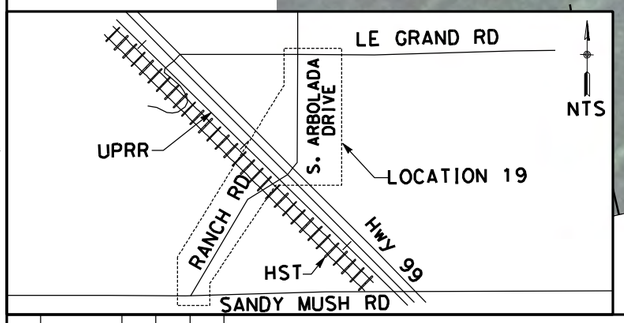
SR99 SB ON-RAMP

EDGE OF PAVEMENT

TOE OF FILL

MATCH LINE STA 18+00
SEE DRAWING CT7127-B

SR99 SB OFF-RAMP
PER CONTRACT 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)



CURVE DATA

No.	R	Δ	T	L
(3)	850.00	20°27'07"	153.34	303.41

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8127-B THROUGH CT8131-B

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7126-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:34:42 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7126-B.dgn
ayeled

PER CONTRACT NO. 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

POT 16+90.06

N34°04'24"W 300.06'

PC24+90.06

STA 7+55.19

PCCT7+94.45

1

2

LIMIT OF IMPACT

TOE OF FILL

36'

8'
12'
4'

SR99 SB ON-RAMP

778'

N57°42'26"W

PT13+56.13

EDGE OF PAVEMENT

24'

TOE OF FILL

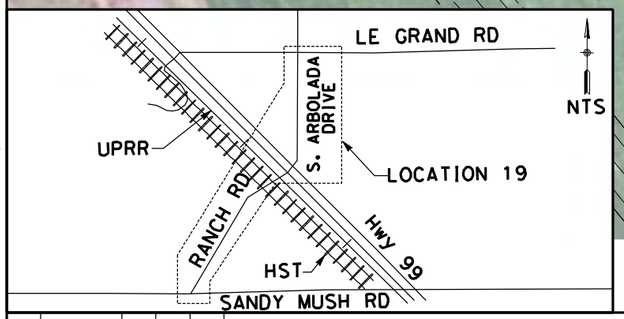
LIMIT OF IMPACT

MATCH LINE STA 18+00
SEE DRAWING CT7126-B

SR99 SB PER CONTRACT NO. 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 NB PER CONTRACT NO. 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 NB OFF-RAMP PER CONTRACT NO. 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8132-B THROUGH CT8135-B

CURVE DATA

No.	R	Δ	T	L
1	3000.00	5°31'37"	144.81	289.39
2	850.00	17°23'25"	290.57	576.68

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

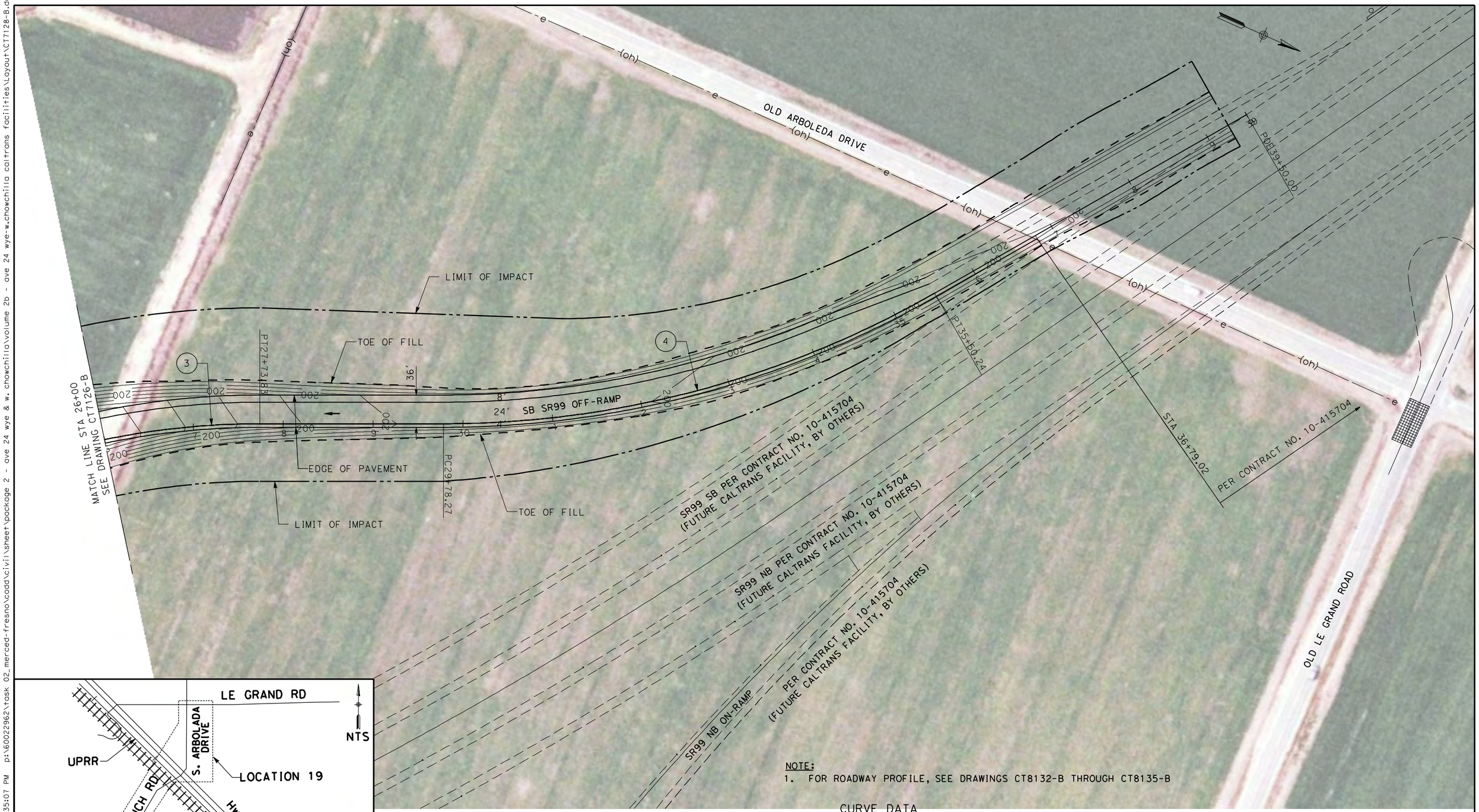
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

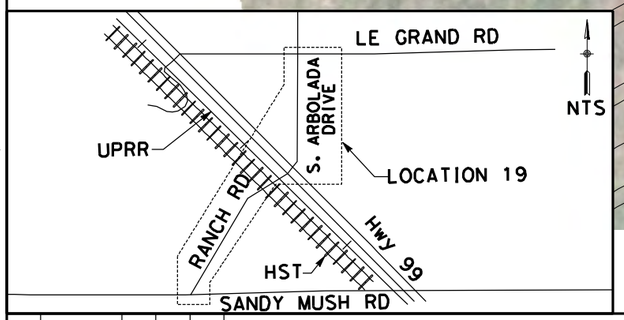
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP
LAYOUT
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CT7127-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:34:55 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7127-B.dgn
ayeled





NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8132-B THROUGH CT8135-B

CURVE DATA

No.	R	Δ	T	L
3	850.00	20°27'07"	153.34	303.41
4	1100.00	29°47'31"	292.61	571.97

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP
LAYOUT
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CT7128-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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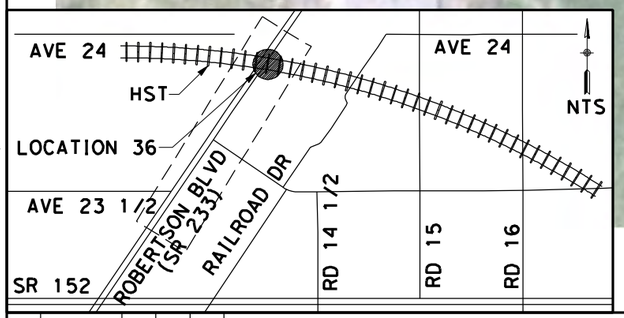
ayeled

4/27/2011 6:35:25 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla caltrans facilities\layout\CT7129-B.dgn
ayeled



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8136-B THROUGH CT8139-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	10°10'00"	266.86	532.33	55 MPH
(2)	3000.00	10°10'00"	266.86	532.33	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7129-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7130-B.dgn

SEE DRAWING CR9136-B

LIMIT OF IMPACT

℄ HST TRACK
A2-24MCDO(SEE DRAWING T2380-A)

HST R/W

PRIVATE PROPERTY ACCESS

LIMITS OF DITCH

TOE OF FILL

STA 170+42.93
BEGIN BRIDGE

EDGE OF PAVEMENT

SEE DRAWING CT7129-B
MATCH LINE STA 164+00

REALIGNED ROBERTSON BOULEVARD (SR 233)

1500.49'
N34°28'12"E

℄ HST TRACK
A2-24MLDO (SEE DRAWING T2400-A)

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2360-A)

RETAINING WALL

REALIGNED ROBERTSON BOULEVARD (SR 233) OVERHEAD

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

STA 175+07.18
END BRIDGE

MBGR

SEE DRAWING CT7131-B
MATCH LINE STA 178+00

R=42'

TOE OF FILL

MBGR

EXIST SR 233 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

EXIST SR 233 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

LIMITS OF DITCH

STA 170+42.93
END MBGR

LIMIT OF IMPACT

RETAINING WALL

R=42'

SOUTH FRONTAGE ROAD

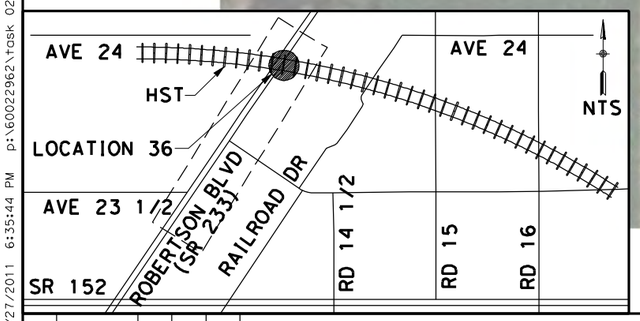
LIMITS OF DITCH

STA 175+07.18
BEGIN MBGR

R=50'

LIMIT OF IMPACT

SEE DRAWING CR9136-B



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8136-B THROUGH CT8139-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°10'00"	266.86	532.33	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

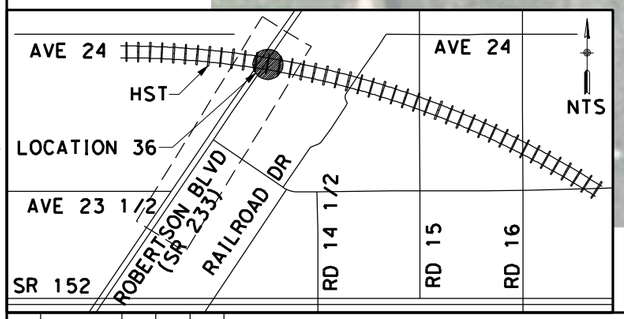
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7130-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:35:44 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye\
ayeled

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7131-B.dgn
4/27/2011 6:36:01 PM ayeled



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8136-B THROUGH CT8139-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	10°10'00"	266.86	532.33	55 MPH
(4)	3000.00	10°10'00"	266.86	532.33	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

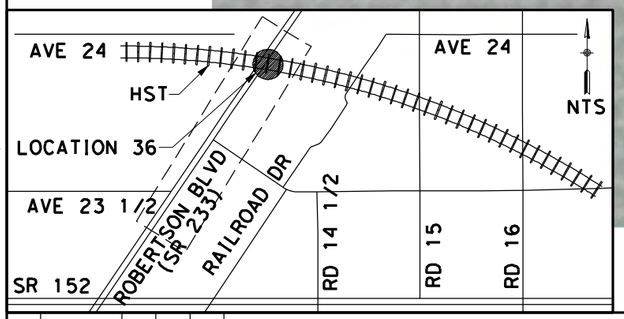
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7131-B
SCALE AS SHOWN
SHEET NO. ### OF ###



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8136-B THROUGH CT8139-B

CURVE DATA

No.	R	Δ	T	L	V
4	3000.00	10°10'00"	266.86	532.33	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7132-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:36:17 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7132-B.dgn
ayeled

C:\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 - 3/30/2012 7:11:08 PM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil USER=ReyesC1

SEE DRAWING CR9152-B

PROPOSED WEST FRONTAGE ROAD

EDGE OF PAVEMENT

LIMIT OF IMPACT

STA 30+00
CONFORM

R=50'

R=50'

REALIGNED SANDY MUSH ROAD

POB 124+19.16

EDGE OF PAVEMENT

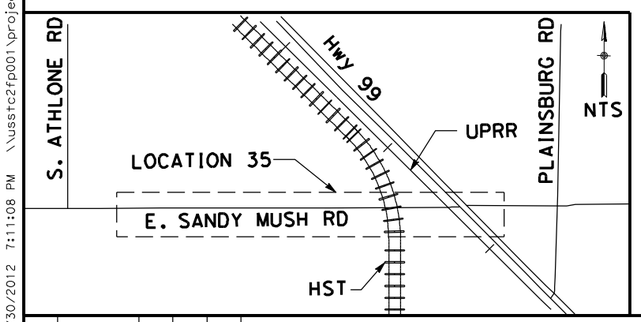
LIMIT OF IMPACT

MATCH LINE STA 33+00
SEE DRAWING CT7134-B

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

SEE DRAWING CR9151-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8140-B THROUGH CT8143-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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

CH2MHILL

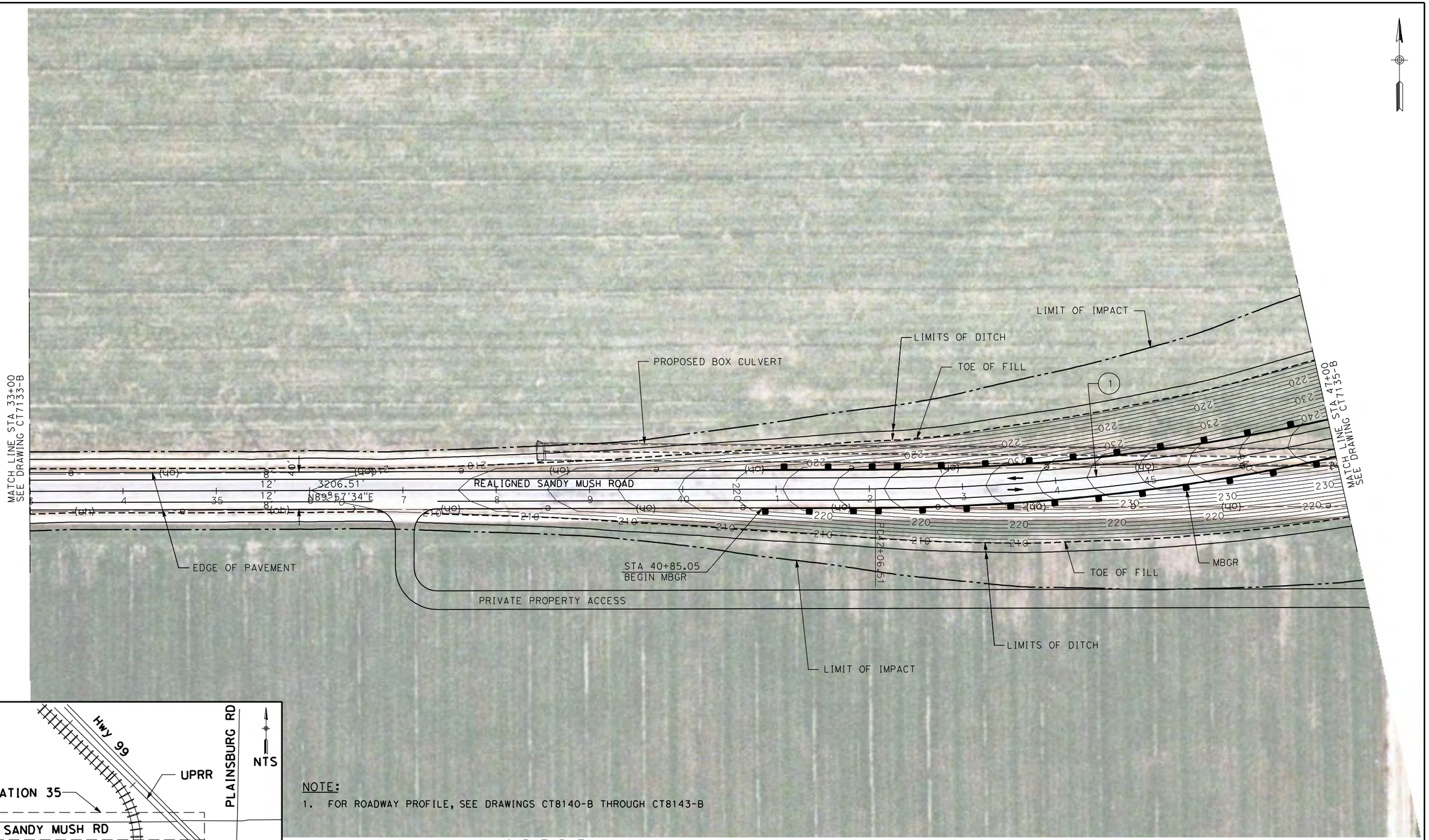
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

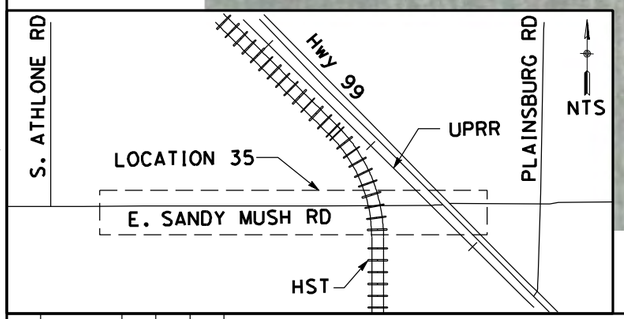
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7133-B
SCALE AS SHOWN
SHEET NO. ### OF ###

Page 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7134-B.dgn
4/27/2011 6:36:41 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla caltrans facilities\Layout\CT7134-B.dgn
oyeled





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8140-B THROUGH CT8143-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	2300.00	50°8'26"	833.94	1600.06	50 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

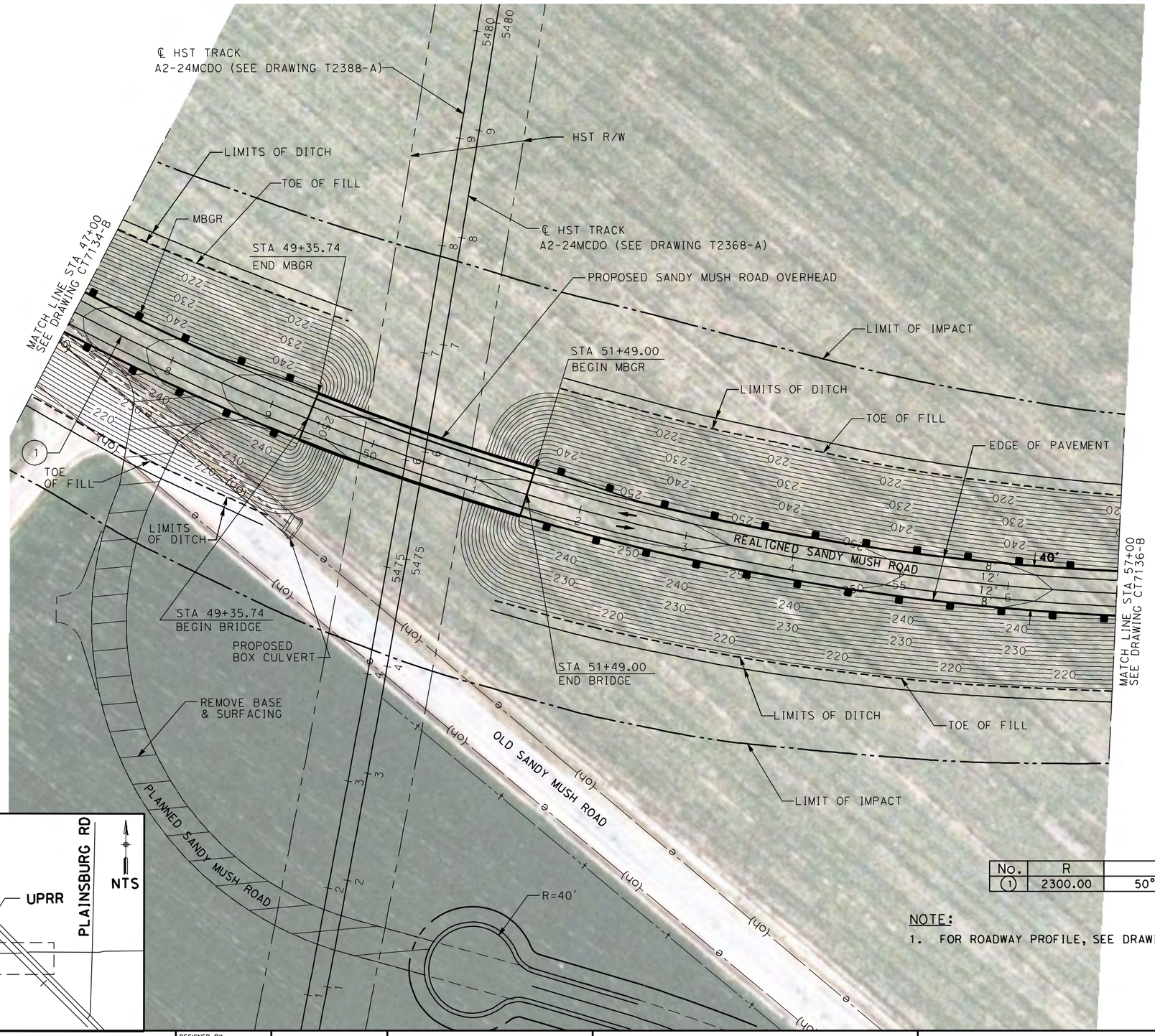
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7134-B
SCALE AS SHOWN
SHEET NO. ### OF ###



CURVE DATA

No.	R	Δ	T	L	V
(1)	2300.00	50°8'26"	833.94	1600.06	50 MPH

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8140-B THROUGH CT8143-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7135-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

LIMITS OF DITCH

EDGE OF PAVEMENT

TOE OF FILL

STA 60+00
CONFORM

MATCH LINE STA 57+00
SEE DRAWING CT7135-B

12' REALIGNED SANDY MUSH ROAD 317.33'
N50°6'0"E

STA 60+00
END MBGR

MBGR

LIMITS OF DITCH

LIMIT OF IMPACT

SEE CONTRACT
NO. 10-415804

POE 152+71.99

FRONTAGE ROAD (PER CONTRACT 10-415804
FUTURE CALTRANS FACILITY, BY OTHERS)

UPRR

LIMIT OF IMPACT

SANDY MUSH ROAD OH STRUCTURE TO REMAIN
PER CONTRACT NO. 10-415804
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 SB OFF-RAMP
(PER CONTRACT NO. 10-415804)
(FUTURE CALTRANS FACILITY, BY OTHERS)

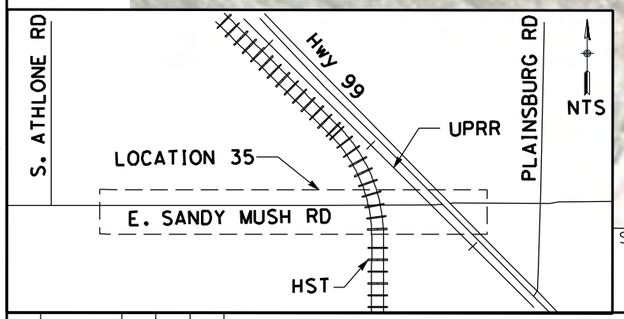
SR99 SB PER CONTRACT 10-415804
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 NB PER CONTRACT 10-415804
(FUTURE CALTRANS FACILITY, BY OTHERS)

SANDY MUSH ROAD PER CONTRACT NO. 10-415804
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 SB ON-RAMP
(PER CONTRACT NO. 10-415804)
(FUTURE CALTRANS FACILITY, BY OTHERS)

NO.	R	Δ	T	L	V
1	2300.00	50°8'26"	833.94	1600.06	50 MPH



SEE DRAWING CR9127-B

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8140-B THROUGH CT8143-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7136-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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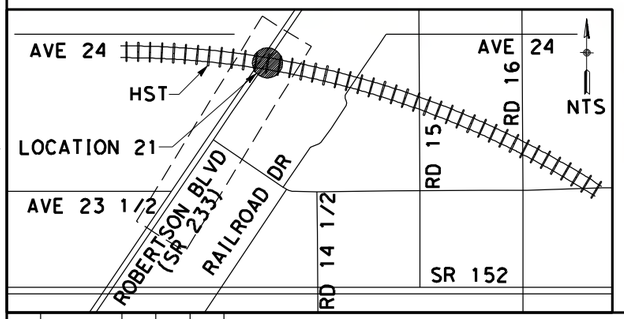
ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\sheet\package 2 - ave 24 wye-w.chowchilla caltrans facilities\Layout\CT7137-B.dgn
ayeled



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8144-B THROUGH CT8146-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE (AVE 24)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7137-B
SCALE AS SHOWN
SHEET NO. ### OF ###

SEE DRAWING CR9136-B

SEE DRAWING CR9136-B

HST R/W

SOUTH FRONTAGE ROAD

NORTH FRONTAGE ROAD

℄ HST TRACKS
A2-24ML (SEE DRAWING T2117-A)

STA 1222+36.04
BEGIN BRIDGE

RETAINING WALL

LIMIT OF IMPACT

RETAINING WALL

EDGE OF PAVEMENT

STA 404+67.01
BEGIN BRIDGE

PRIVATE PROPERTY ACCESS

MATCH LINE STA 68+96.28
SEE DRAWING CT7137-B

RETAINING WALL

PROPOSED SR 233
UNDERPASS

STA 152+33.43
BEGIN BRIDGE

PROPOSED SR 233
UNDERPASS

LIMIT OF IMPACT

RETAINING WALL

EDGE OF PAVEMENT

PRIVATE PROPERTY ACCESS

ROBERTSON BOULEVARD (SR 233)

1704.38'
N34°15'17"E

MATCH LINE STA 82+87.46
SEE DRAWING CT7139-B

RETAINING WALL

LIMIT OF IMPACT

EDGE OF PAVEMENT

STA 153+57.46
END BRIDGE

PRIVATE PROPERTY ACCESS

LIMIT OF IMPACT

RETAINING WALL

EDGE OF PAVEMENT

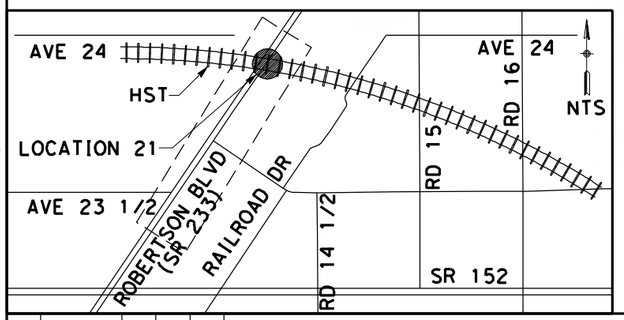
PROPOSED SR 233
UNDERPASS

STA 405+92.23
END BRIDGE

RETAINING WALL

STA 1223+59.45
END BRIDGE

RETAINING WALL



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8144-B THROUGH CT8146-B

SEE DRAWING CR9136-B

SEE DRAWING CR9136-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE (AVE 24)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7138-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

MATCH LINE STA 82+87.46
SEE DRAWING CT7138-B

RETAINING WALL
TOE OF CUT
EDGE OF PAVEMENT
LIMIT OF IMPACT

PI 83+04.57
PI 89+65.96
POE 91+00.00

661.39'
N34°37'17"E
134.04'
N34°55'13"E

10'
12'
12'
10'
10'

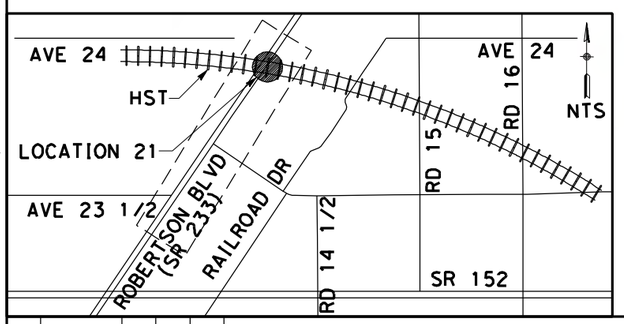
ROBERTSON BOULEVARD (SR 233)

EXIST ROBERTSON BOULEVARD (SR 233)

STA 91+00.00
CONFORM

TOE OF CUT
LIMIT OF IMPACT
RETAINING WALL

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8144-B THROUGH CT8146-B



50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

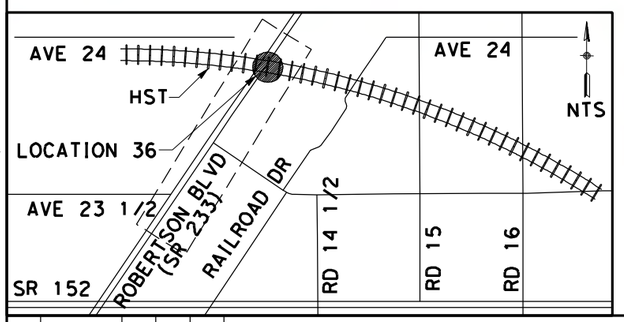
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE (AVE 24)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7139-B
SCALE AS SHOWN
SHEET NO. ### OF ###

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8147-B THROUGH CT8149-B



50 0 50 100

1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR233 MAINLINE DO/MERCED DO - (WC)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7140-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

HST R/W

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2360-A)

SOUTH FRONTAGE ROAD

ST5080+29.07

℄ HST TRACKS
A2-24MLDO (SEE DRAWING T2400-A)

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2380-A)

ST5080+47.49

STA 1212+97.19
BEGIN BRIDGE

PROPOSED SR 233
UNDERPASS

LIMIT OF IMPACT

RETAINING WALL

EDGE OF PAVEMENT

STA 5077+11.55
END BRIDGE
SOUTHBOUND MCDO

CS5078+09.07

STA 5077+33.93
END BRIDGE
NORTHBOUND MCDO

LIMIT OF IMPACT

RETAINING WALL

STA 404+94.98
BEGIN BRIDGE

CS5078+27.49

PROPOSED SR 233
UNDERPASS

EDGE OF PAVEMENT

MATCH LINE STA 82+87.46
SEE DRAWING CT7142-B-A

MATCH LINE STA 68+96.28
SEE DRAWING CT7140-A

PRIVATE PROPERTY ACCESS

ROBERTSON BOULEVARD (SR 233)

1704.38'
N34°15'17"E

PRIVATE PROPERTY ACCESS

PROPOSED SR 233
UNDERPASS

LIMIT OF IMPACT

EDGE OF PAVEMENT

RETAINING WALL

STA 406+22.99
END BRIDGE

PROPOSED SR 233
UNDERPASS

RETAINING WALL

STA 5075+83.55
BEGIN BRIDGE
SOUTHBOUND MCDO

RETAINING WALL

LIMIT OF IMPACT

STA 5076+5.93
BEGIN BRIDGE
NORTHBOUND MCDO

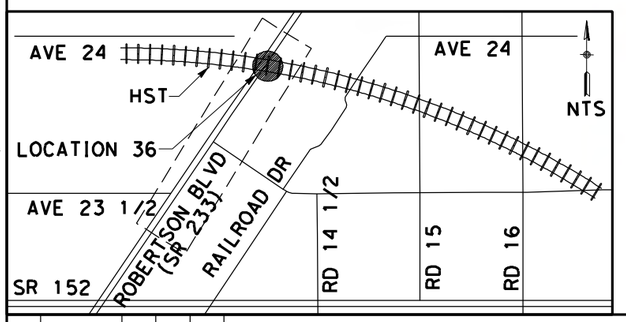
EDGE OF PAVEMENT

SC5074+00.46

STA 1214+25.20
END BRIDGE

SC5072+68.54

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8147-B THROUGH CT8149-B



50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7141-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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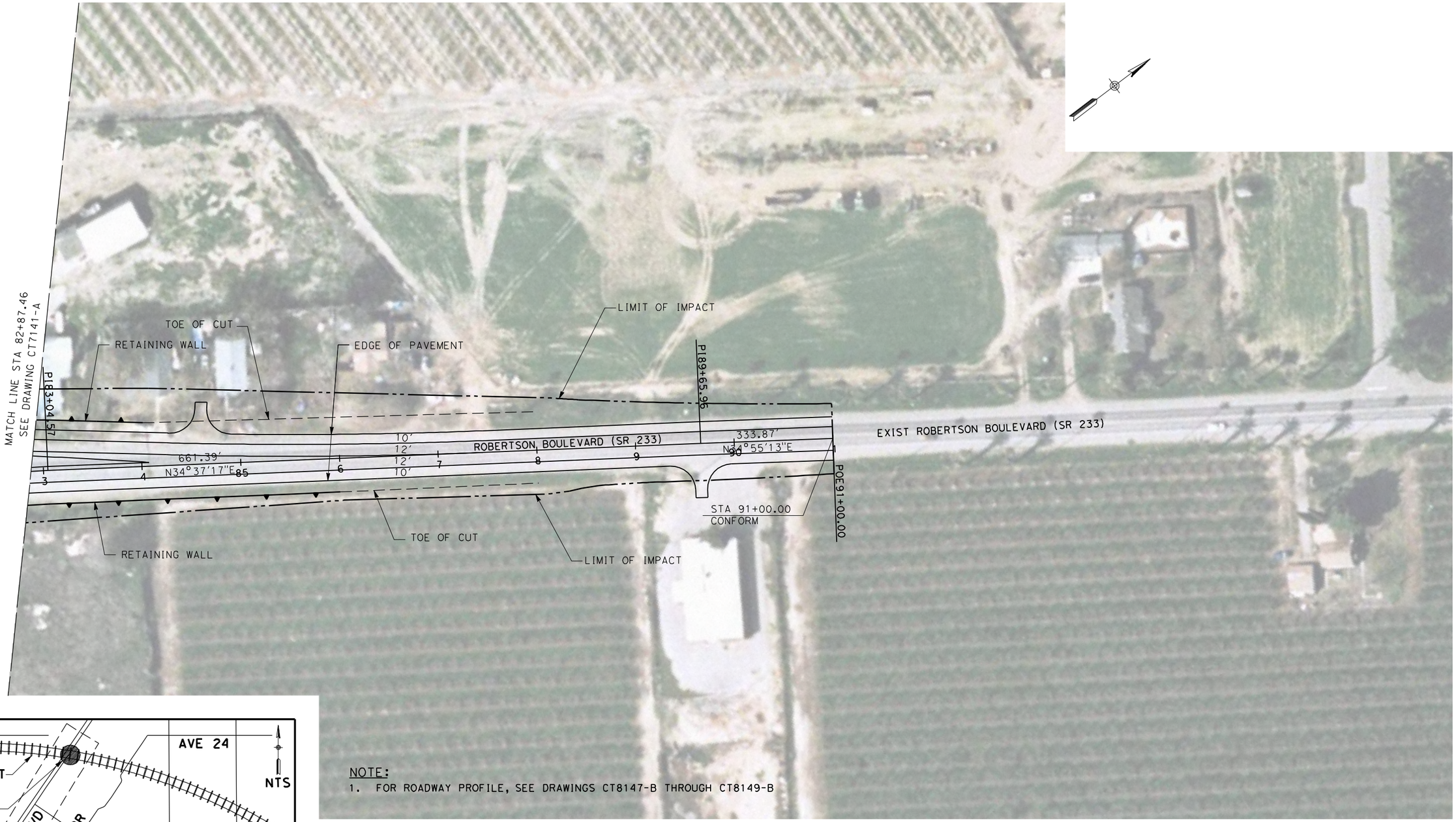

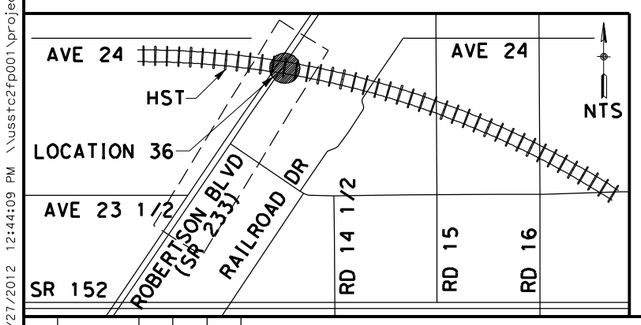

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8147-B THROUGH CT8149-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7142-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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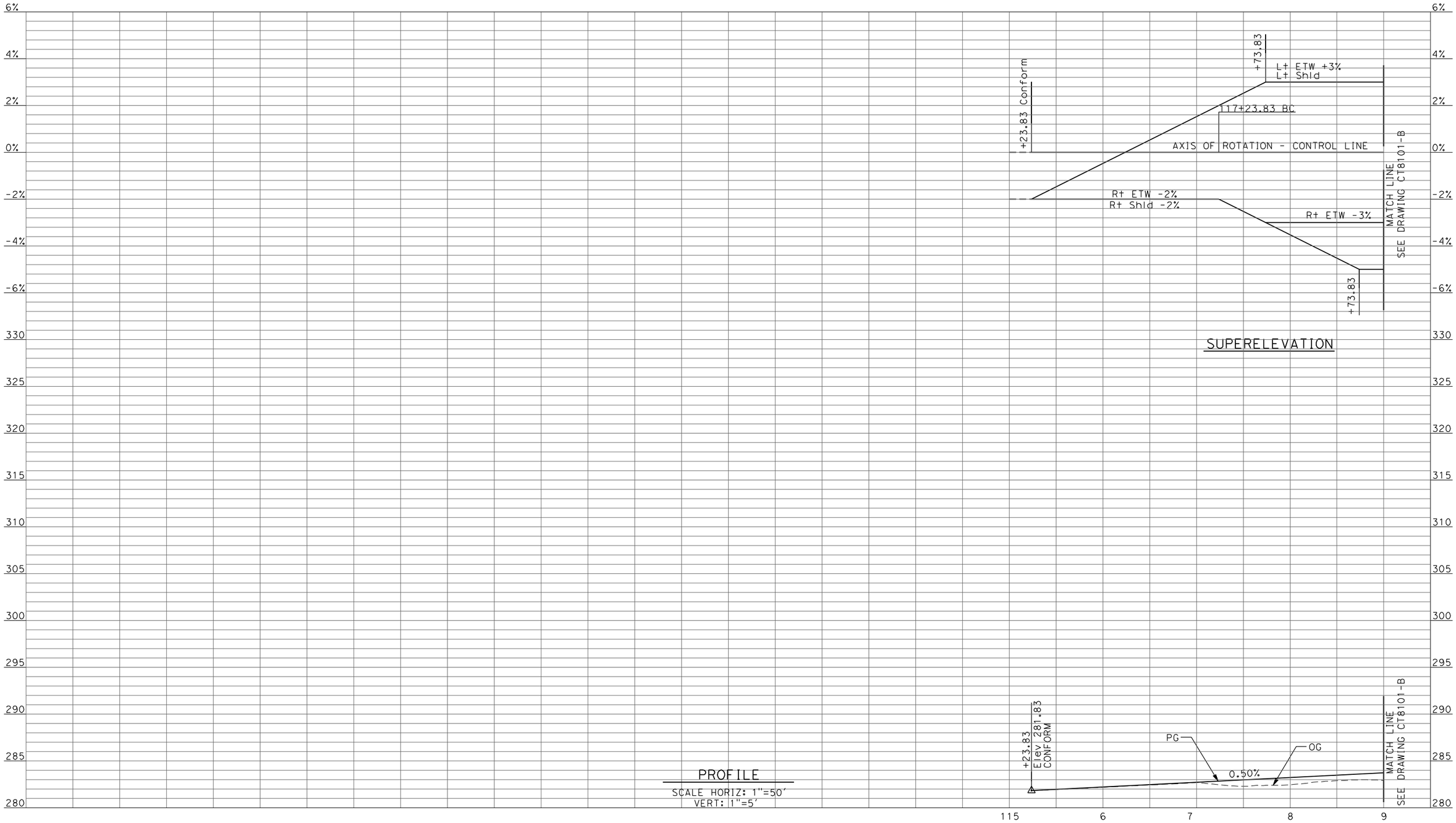
ayeled



SUPERELEVATION

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 8 - OVERHEAD
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8100-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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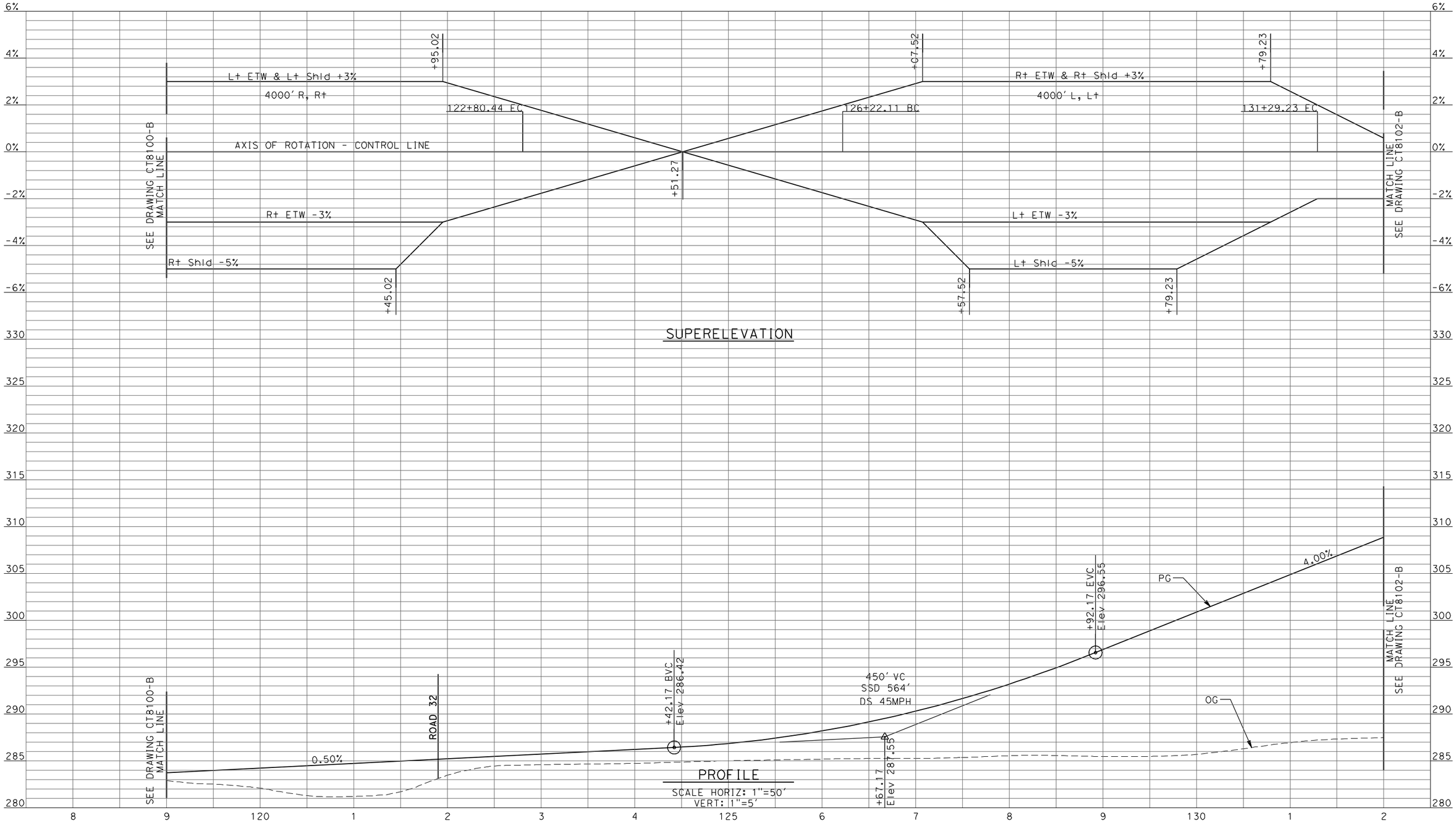

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 8 - OVERHEAD
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8101-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Profile\CT8102-B.dgn
ayeled

SEE DRAWING CT8101-B MATCH LINE

+29.23

AXIS OF ROTATION - CONTROL LINE

L+ & R+ ETW -2%
L+ & R+ Shld -2%

SUPERELEVATION

+69.51 Elev 335.64

EB +77.18 Elev 325.16

+64.77

R+ ETW & R+ Shld +3%
3500' L, L+

143+14.77 BC

+17.77

MATCH LINE SEE DRAWING CT8103-B

L+ ETW -3%

+69.57

+69.51 BVC Elev 315.64
BB +95.02 Elev 316.63

PG

4.00%

STRUCTURE

3.5'

1000' VC
SSD 408'
DS 45MPH

6'

FALSEWORK

1:5:1

SR 99 R/W

15' MIN CLR

UPRR R/W

21' MIN CLR

HST R/W

27' MIN CLR

HST R/W

1.5:1

OG

UPRR

HST TOR 291.21

+69.51 EVC Elev 315.64

-4.00%

SEE DRAWING CT8101-B MATCH LINE

MATCH LINE SEE DRAWING CT8103-B

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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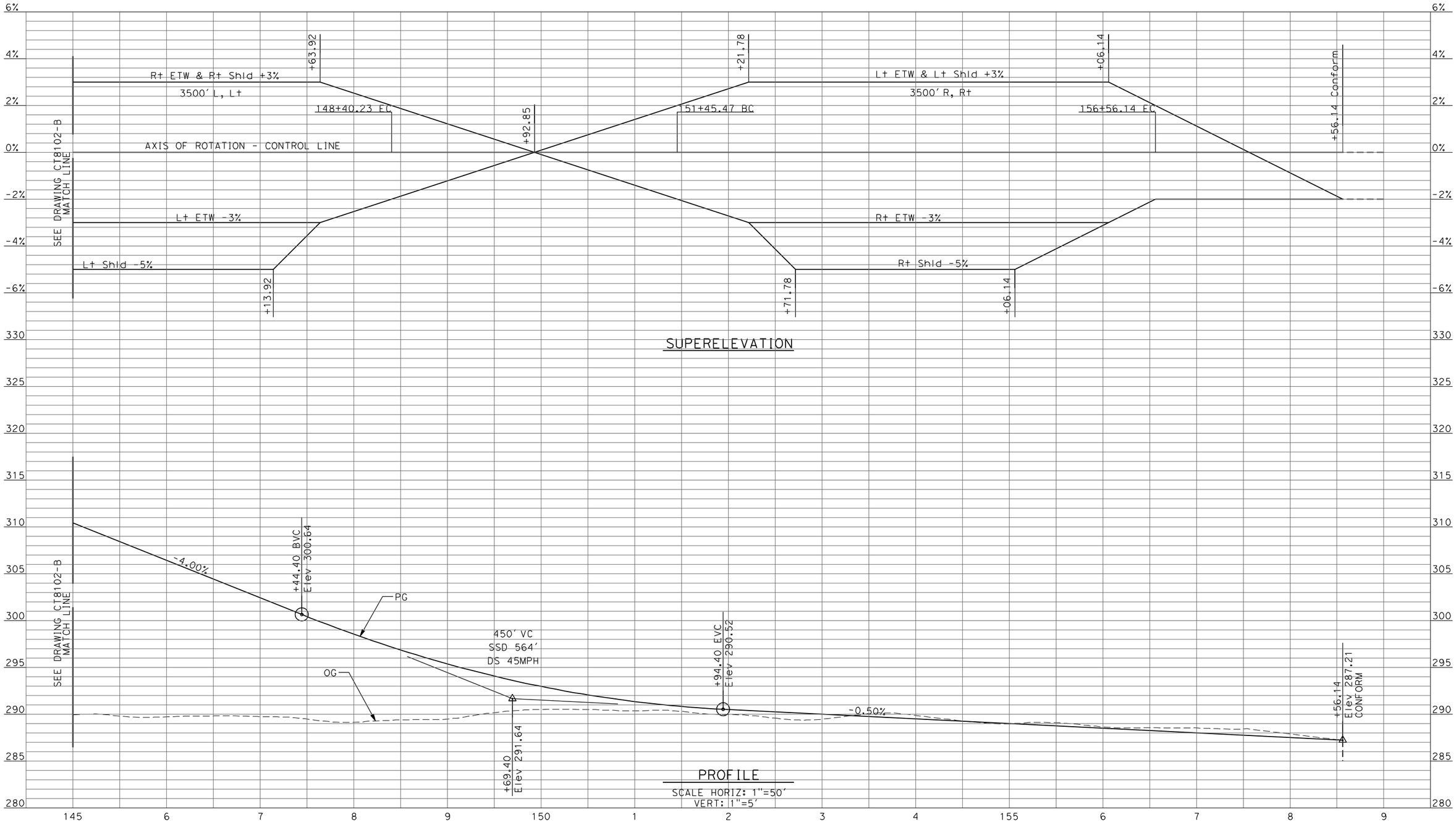
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 8 - OVERHEAD
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8102-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 8 - OVERHEAD
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8103-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled
ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Profile\CT8103-B.dgn

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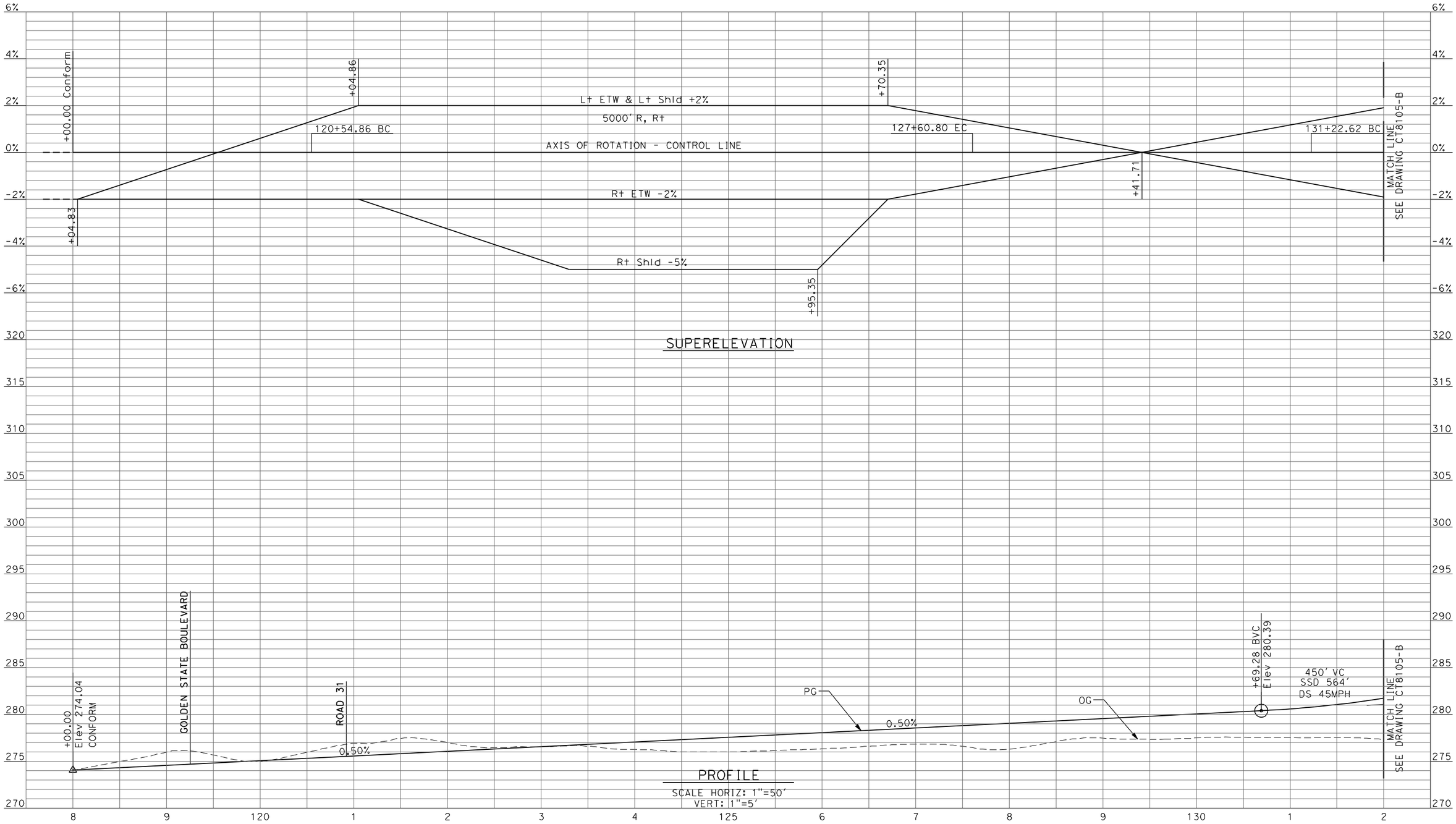
ayeled



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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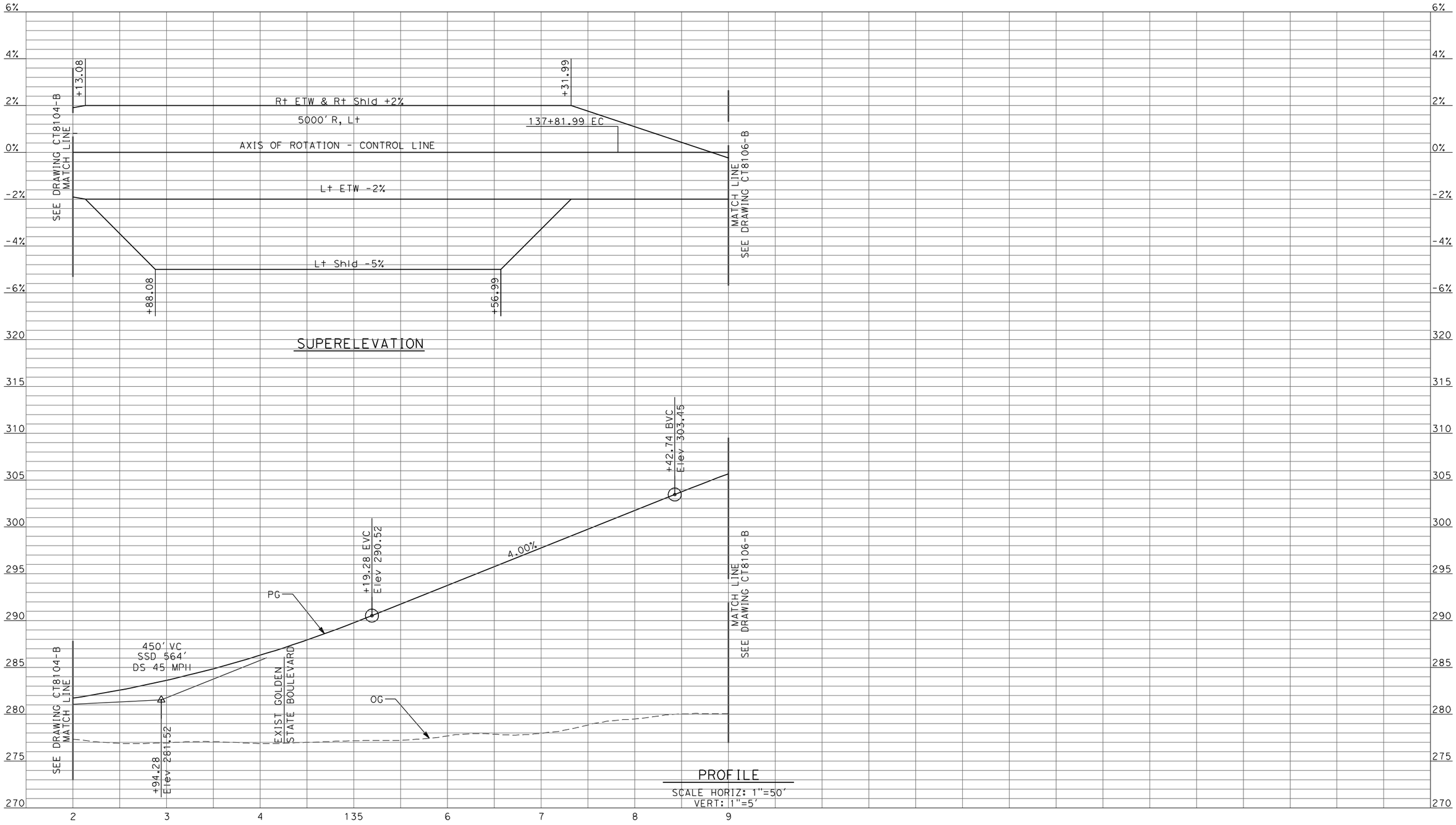
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
PROFILE
SHEET 1 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8104-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
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DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
PROFILE
SHEET 2 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8105-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

4%
2%
0%
-2%
-4%
-6%
325
320
315
310
305
300
295
290
285
280
275
270

SEE DRAWING CT8105-B MATCH LINE

+32.02

AXIS OF ROTATION - CONTROL LINE

Lt & Rt ETW -2%
Lt & Rt Shld -2%

+67.84

+67.87

Rt ETW & Rt Shld +2% 4500' L, Lt

151+17.87 BC

Lt ETW -2%

Lt Shld -5%

+42.87

SEE DRAWING CT8107-B MATCH LINE

SUPERELEVATION

BB +16.23
Elev 309.72

+67.74
Elev 312.45

PG

+92.74 EVC
Elev 316.95

EB +51.09
Elev 318.12

2.00%

+54.56 BVC
Elev 320.19

BB +02.14
Elev 321.04

+04.56
Elev 327.19

EB +03.93
Elev 320.52

+54.56 EVC
Elev 313.19

-4.00%

450' VC
SSD 507'
DS 45 MPH

700' VC
SSD 393'
DS 45 MPH

STRUCTURE

3.5'

7'

7.5'

FALSEWORK

1.5:1

SR99 R/W

15' MIN CLR

UPRR R/W

21' MIN CLR

HST R/W

27' MIN CLR

OG

UPRR

HST TOR 286.50

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

9 140 1 2 3 4 145 6 7 8 9 150 1 2 3

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
PROFILE
SHEET 3 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8106-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Profile\CT8107-B.dgn
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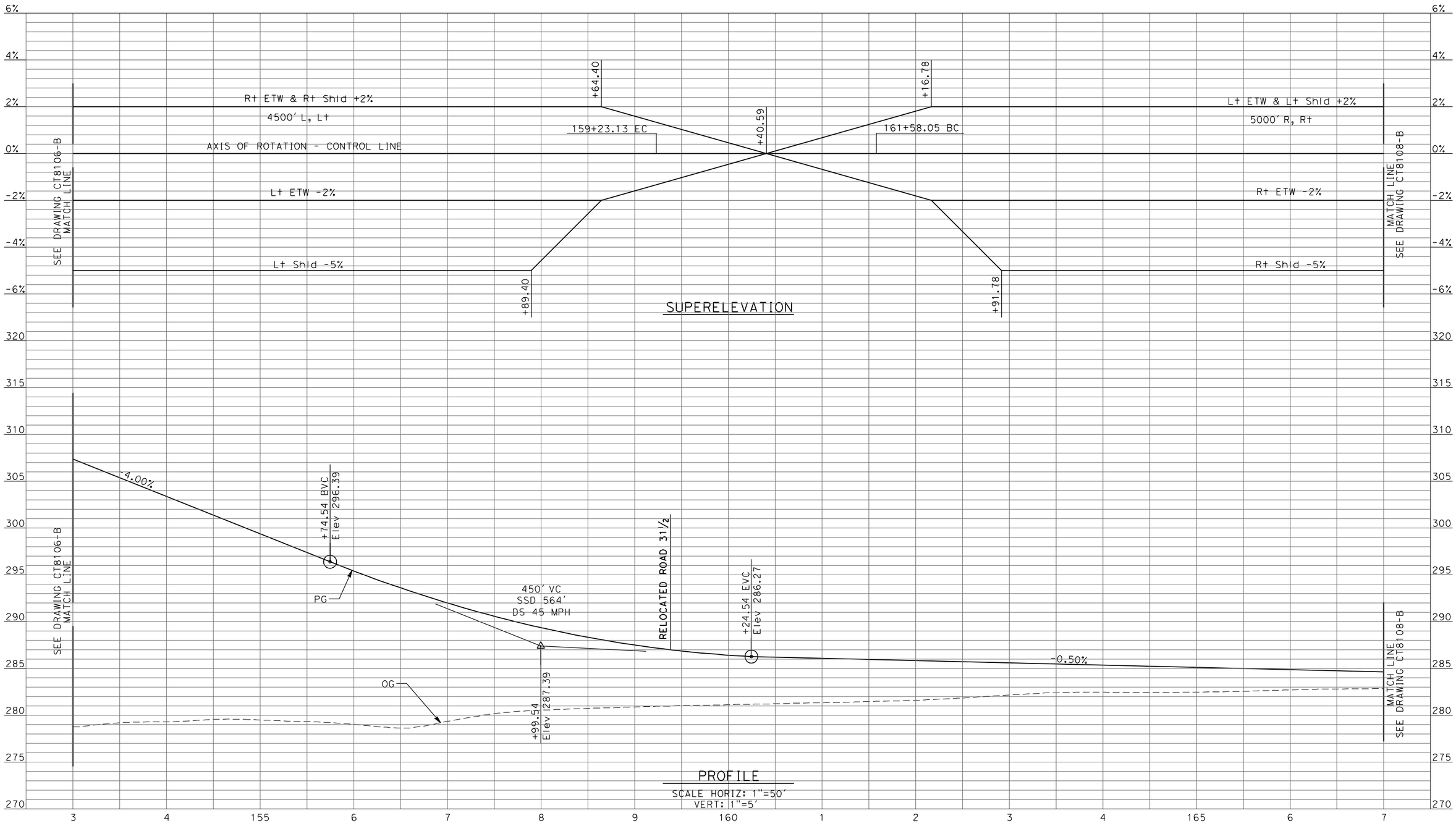

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY C. DELOS REYES
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IN CHARGE A. BOONE
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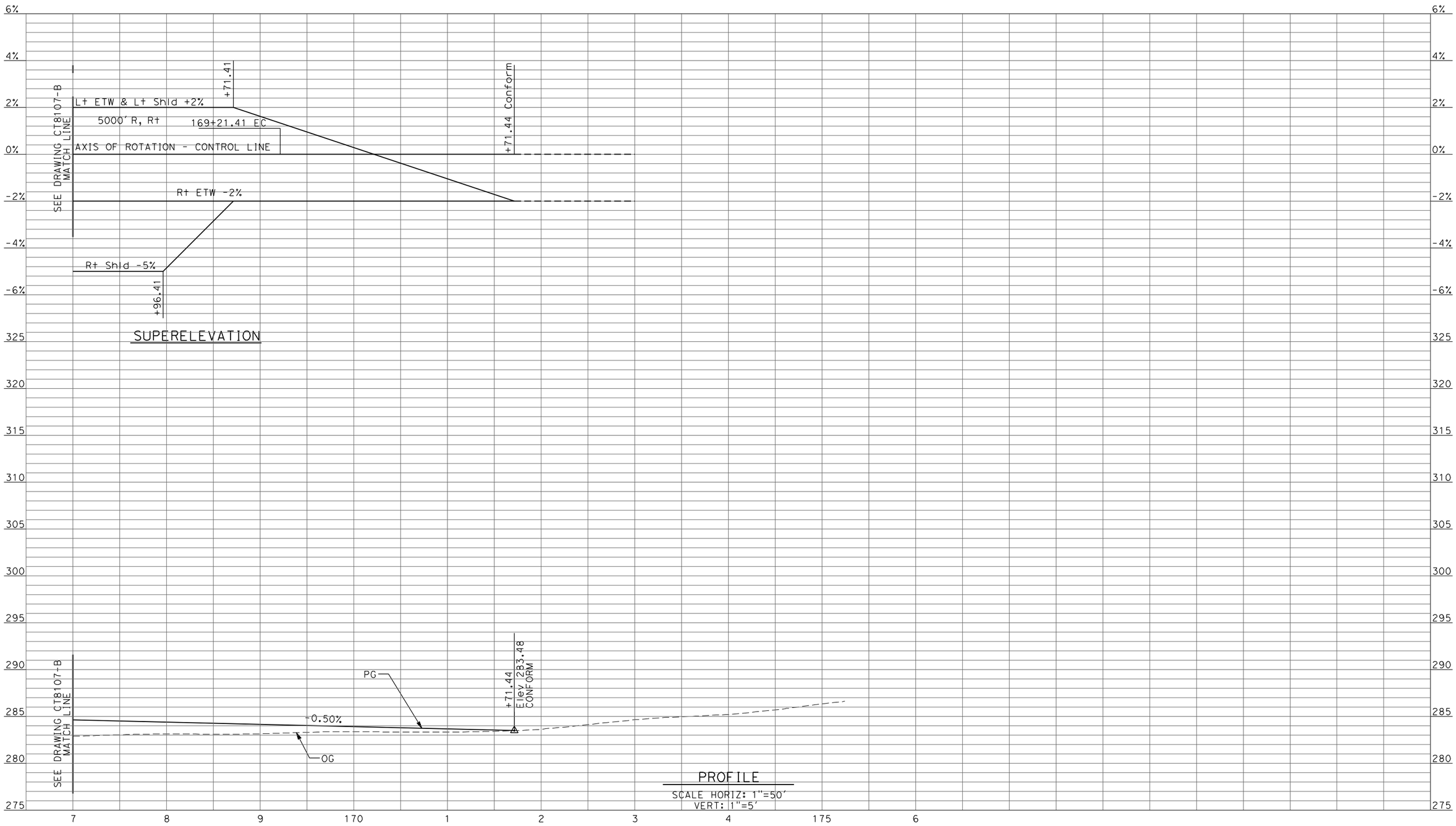
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
PROFILE
SHEET 4 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8107-B
SCALE AS SHOWN
SHEET NO. ### OF ###



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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE
PROFILE
SHEET 5 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8108-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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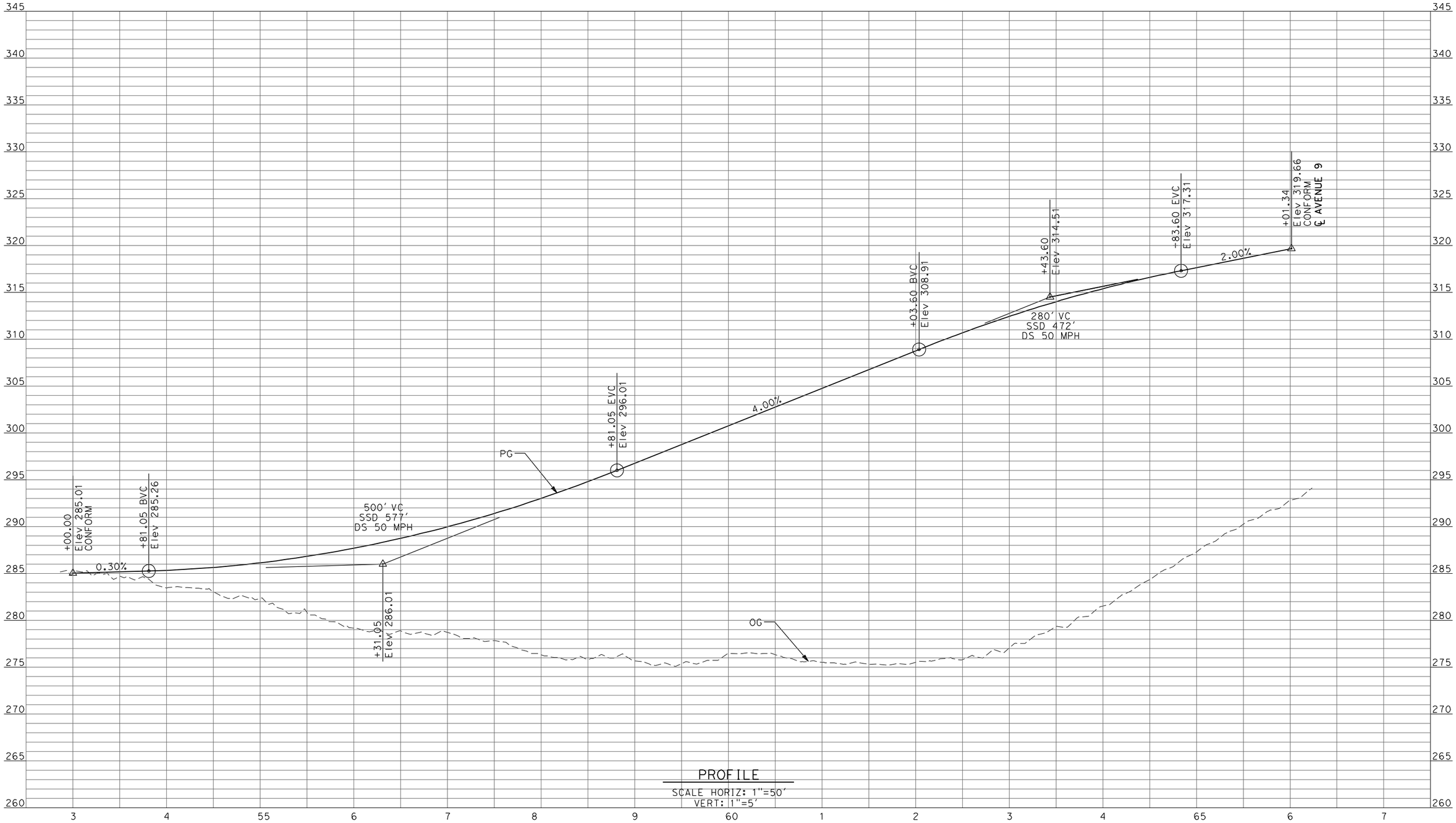

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE SR NB 99 OFF-RAMP
PROFILE
SHEET 6 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8109-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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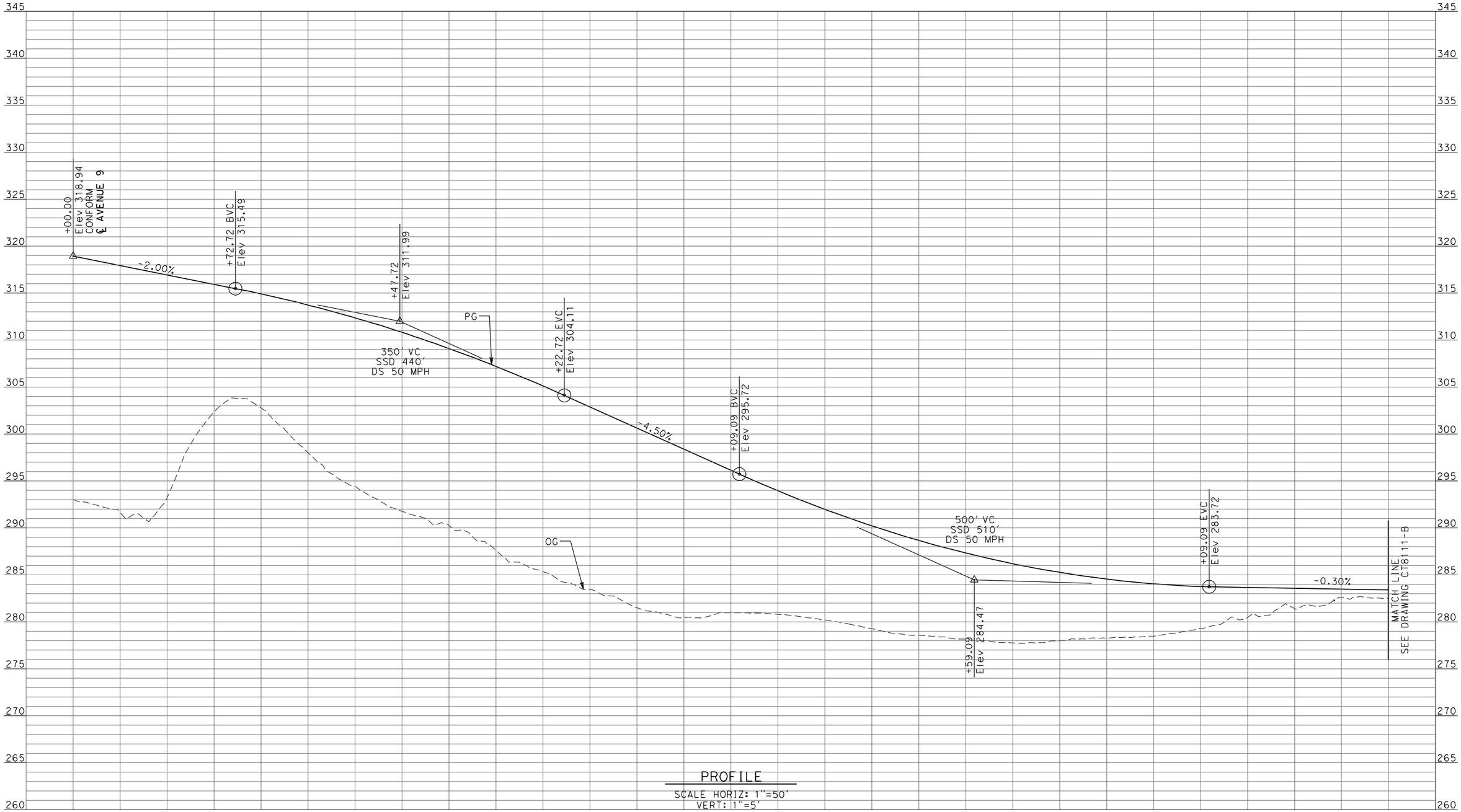

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE SR 99 NB ON-RAMP
PROFILE
SHEET 7 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8110-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

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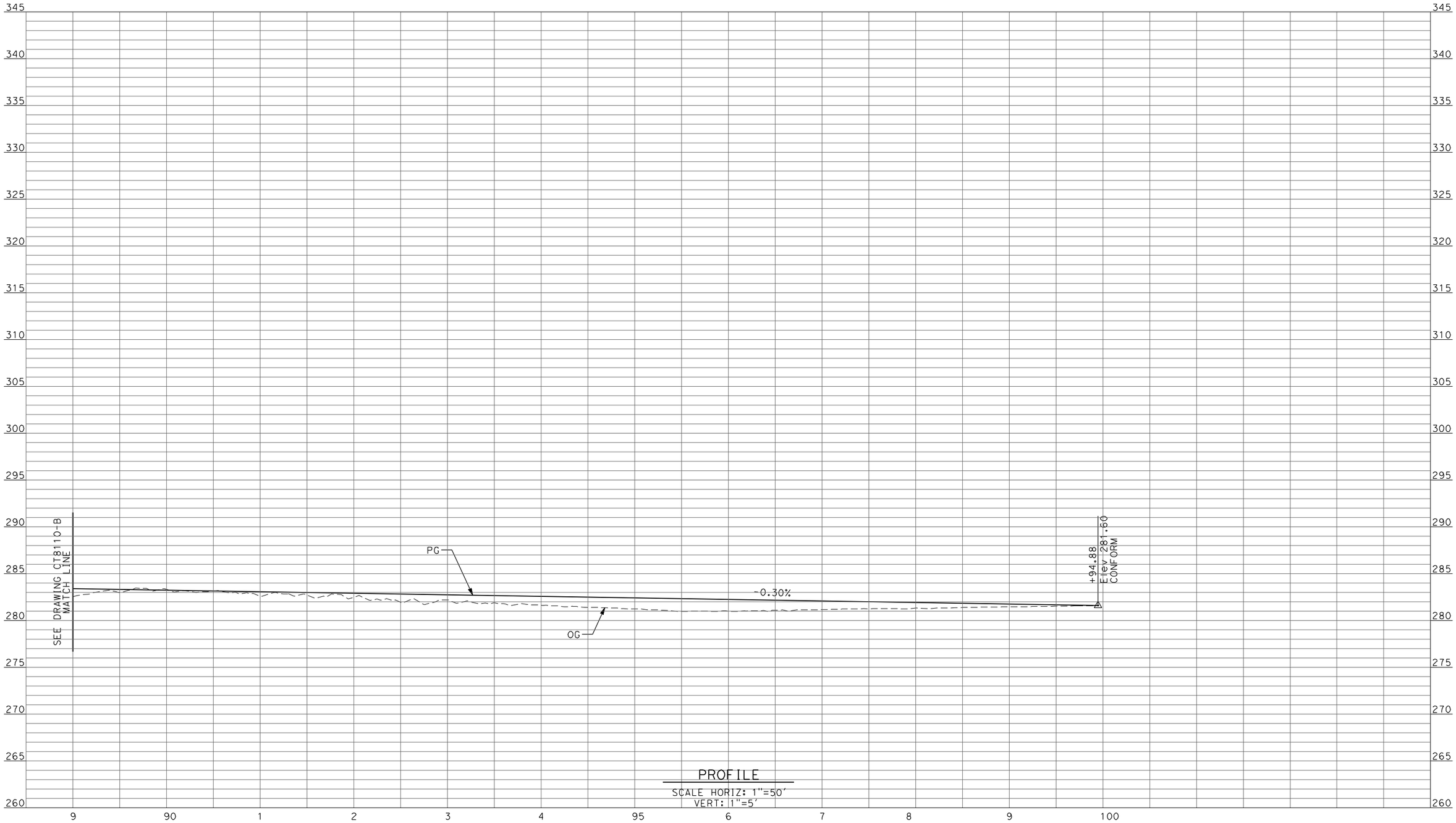

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE SR 99 NB ON-RAMP
PROFILE
SHEET 8 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8111-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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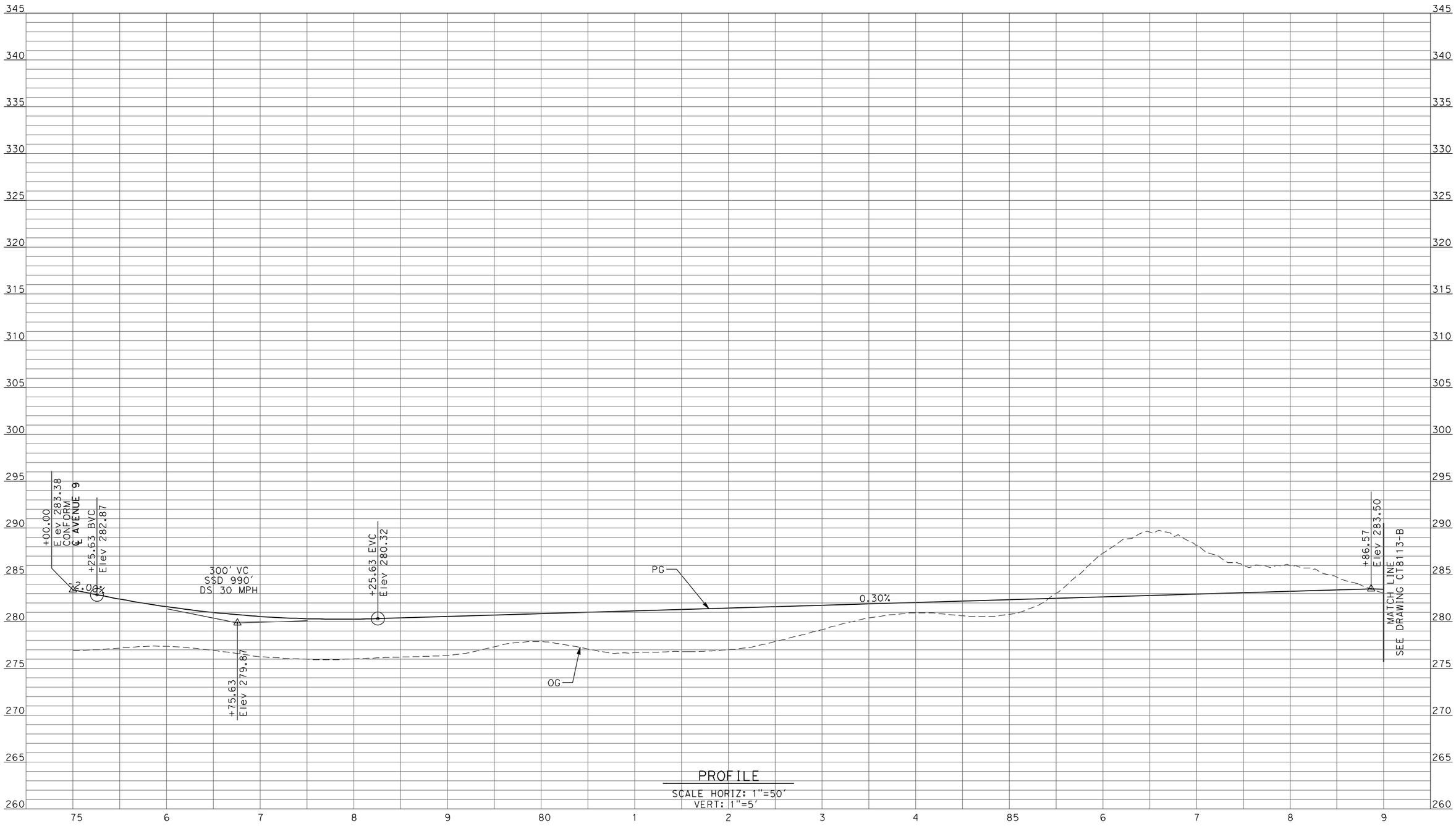

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
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DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE SR 99 SB ON-RAMP
PROFILE
SHEET 9 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8112-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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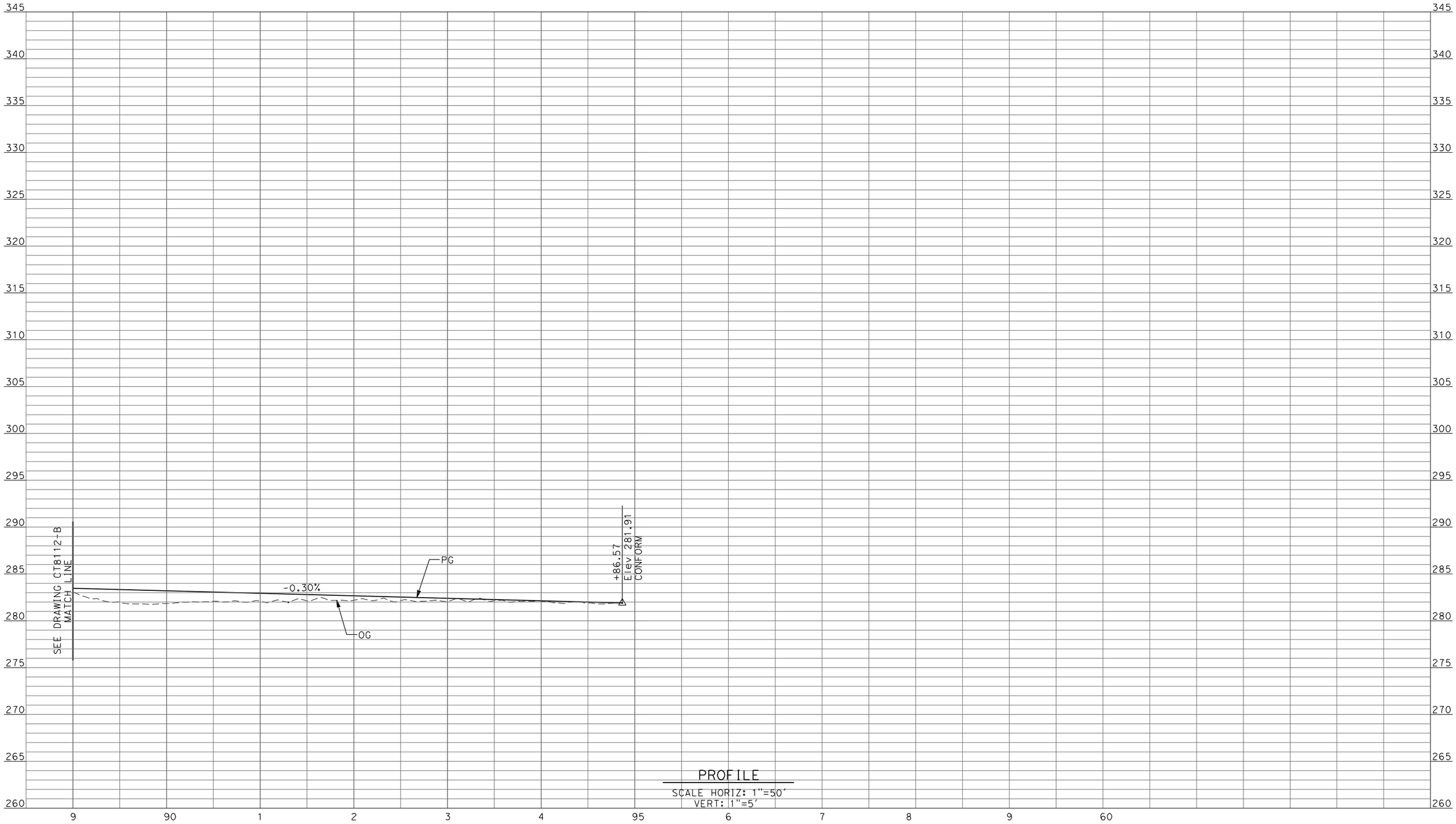

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE SR 99 SB ON-RAMP
PROFILE
SHEET 10 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8113-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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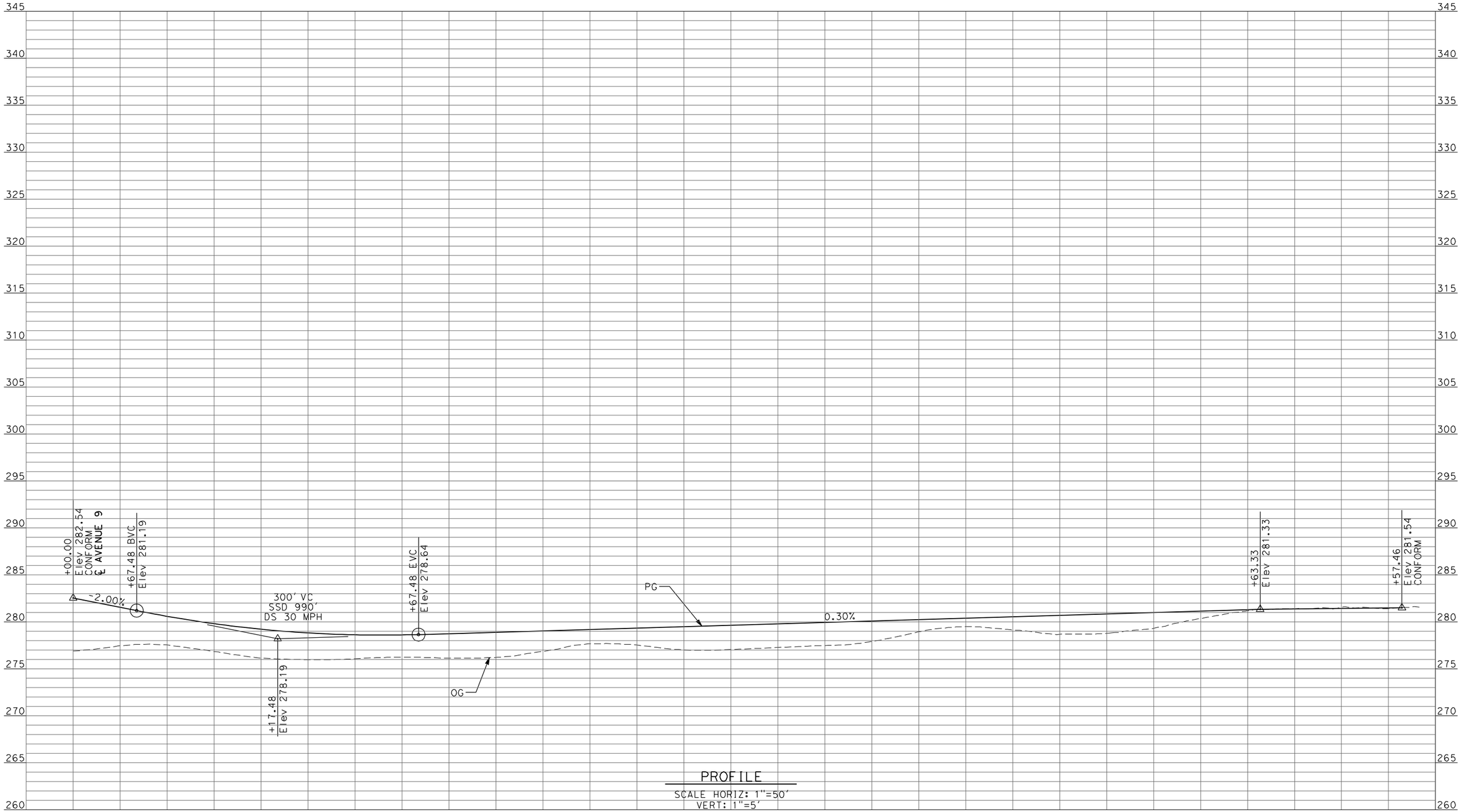

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 9 - INTERCHANGE SR 99 SB OFF-RAMP
PROFILE
SHEET 11 OF 11

CONTRACT NO. HSR06-007
DRAWING NO. CT8114-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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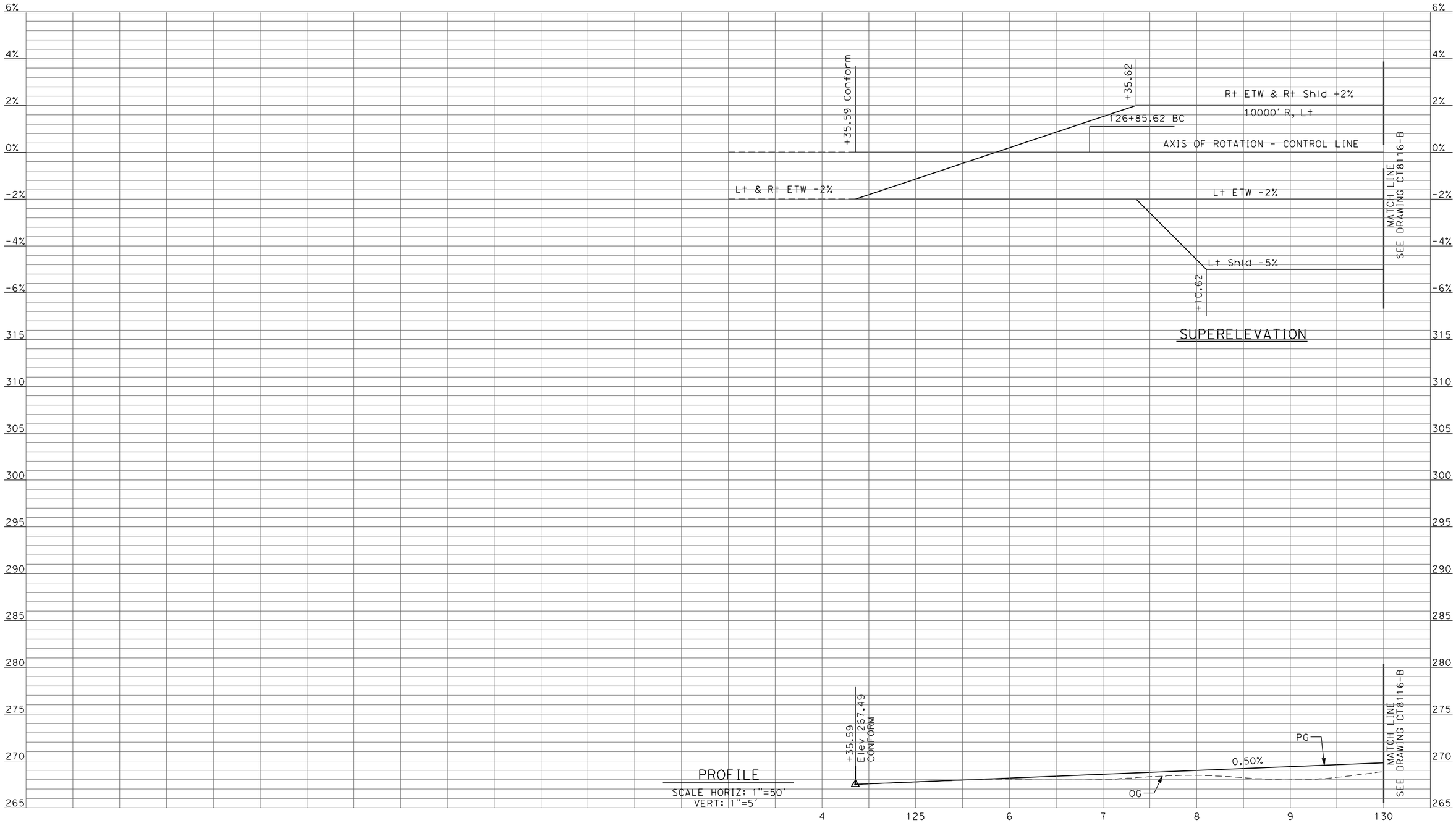
ayeled



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
PROFILE
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8115-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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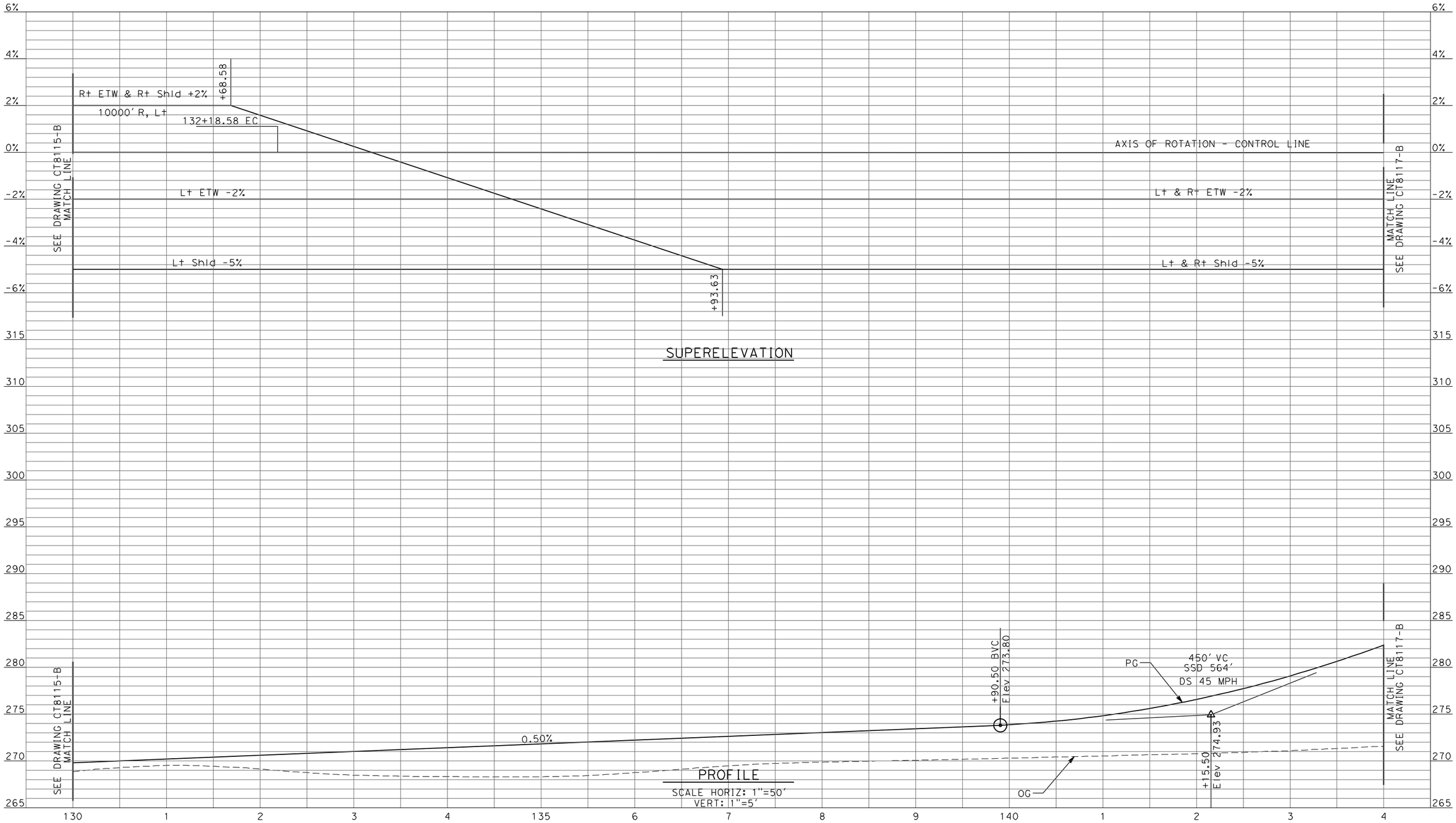

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
PROFILE
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8116-B
SCALE AS SHOWN
SHEET NO. ### OF ###

page 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Profile\CT8117-B.dgn
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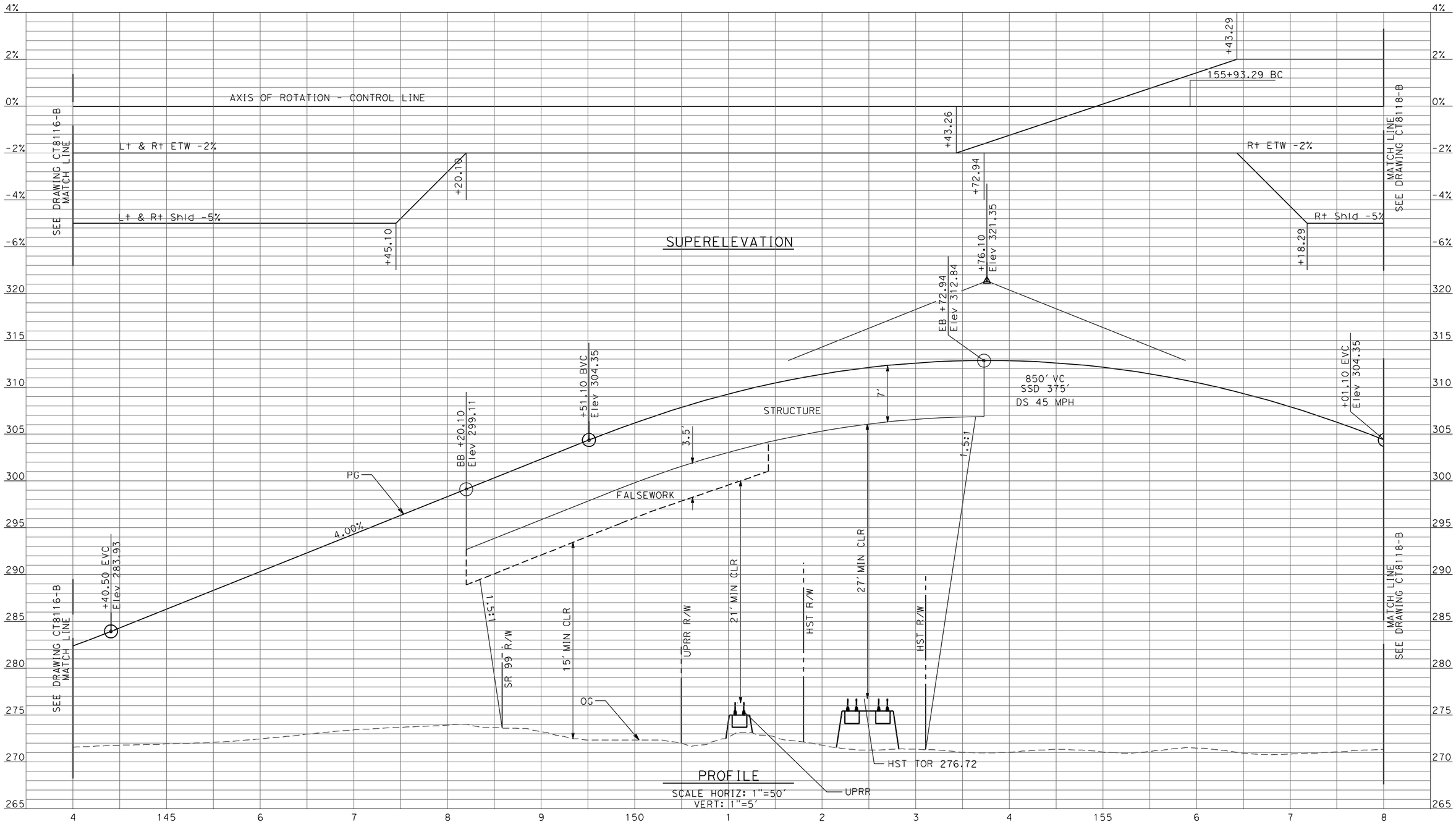

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
PROFILE
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8117-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:39:24 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla caltrans facilities\Profile\CT8118-B.dgn
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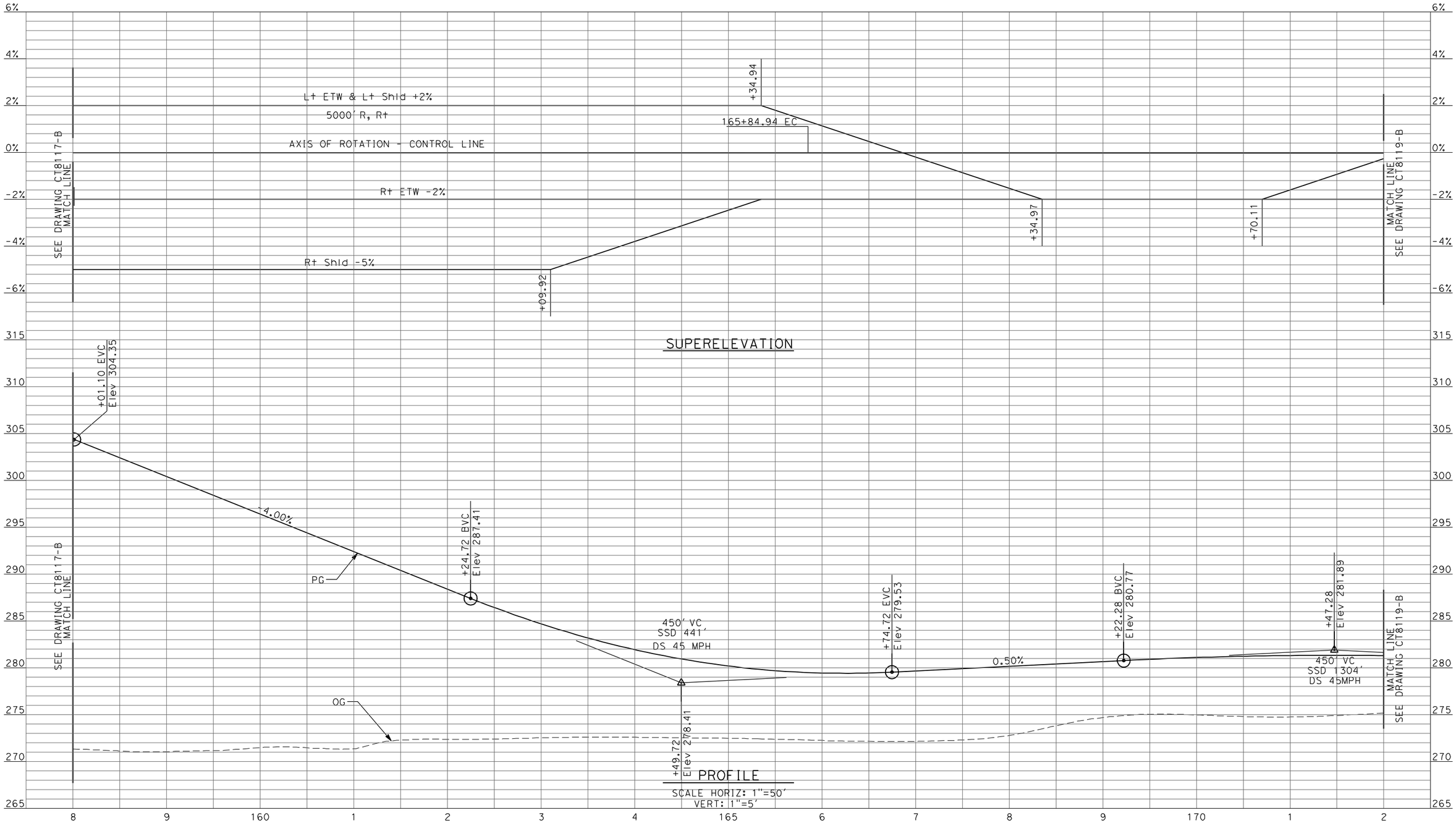

SUPERELEVATION

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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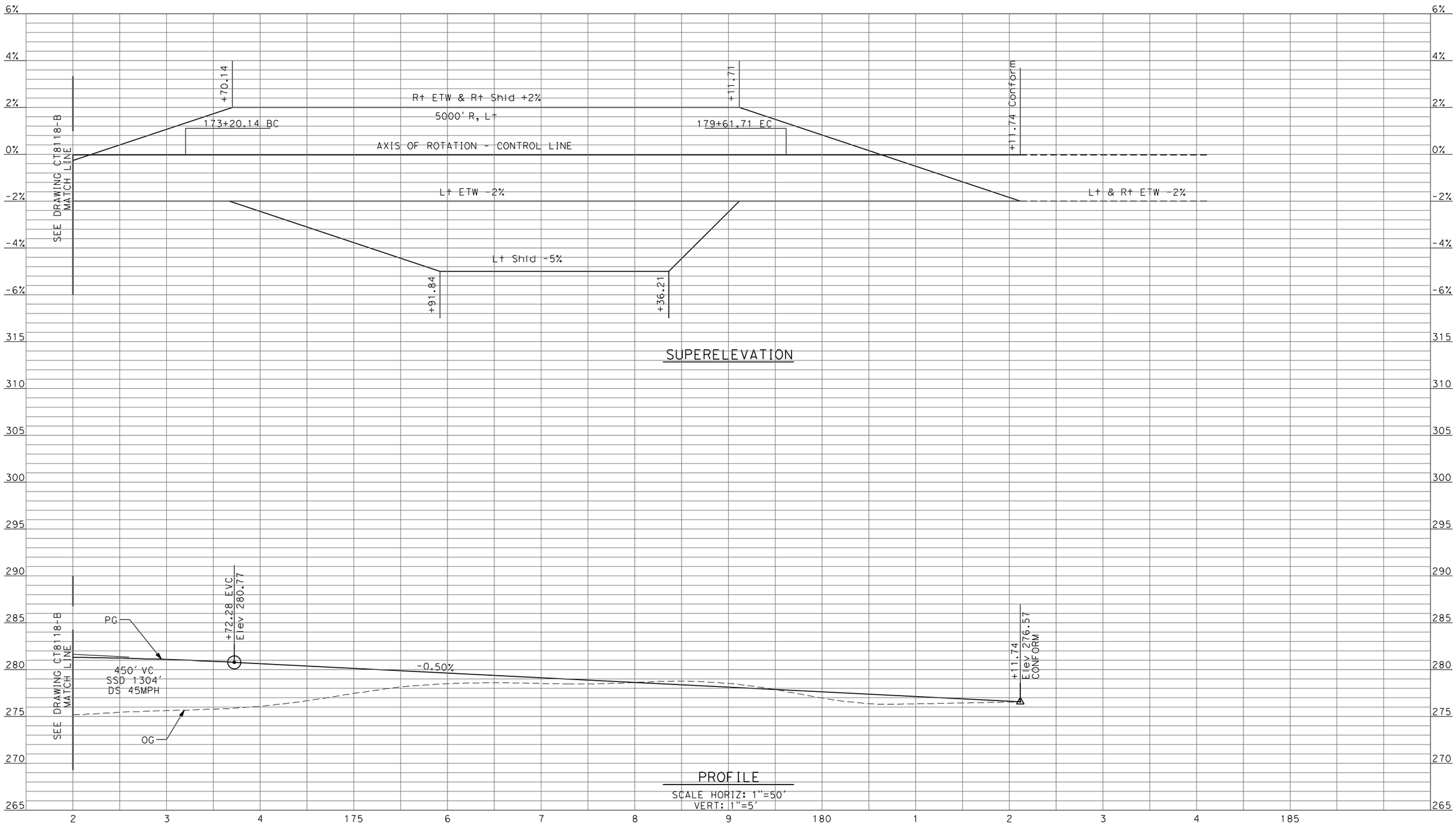
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
PROFILE
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8118-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
AVENUE 11 - OVERHEAD
PROFILE
SHEET 5 OF 5

CONTRACT NO.: HSR06-007
DRAWING NO.: CT8119-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

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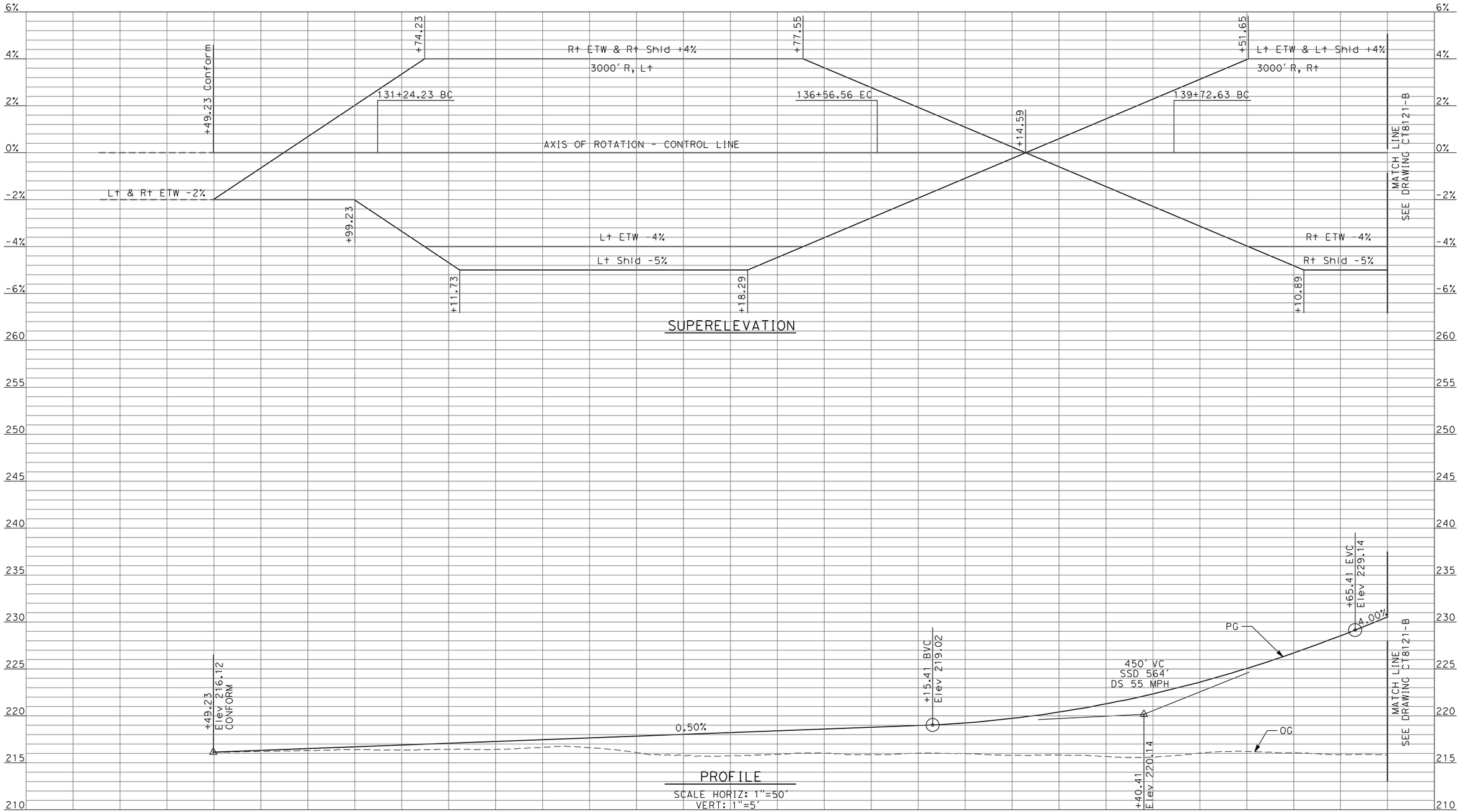

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8120-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

SEE DRAWING CT8120-B MATCH LINE

L† ETW & L† Shld +4%

3000' R, R†

+54.95

145+04.95 EC

AXIS OF ROTATION - CONTROL LINE

+79.95

R† ETW -4%

R† Shld -5%

+15.42

+17.47

SUPERELEVATION

L† & R† ETW & Shld -2%

MATCH LINE SEE DRAWING CT8122-B

+35.48 Elev 271.94

BB +32.70 Elev 255.38

EB +29.24 Elev 255.47

1550' VC
SSD 507'
DS 55 MPH

6'

PG

+60.48 BVC Elev 240.94

4.00%

1.5:1

FRONTAGE ROAD R/W

PROPOSED SOUTH FRONTAGE ROAD

HST R/W

27' MIN CLR

HST R/W

PROPOSED NORTH FRONTAGE ROAD

FRONTAGE ROAD R/W

1.5:1

MATCH LINE SEE DRAWING CT8122-B

SEE DRAWING CT8120-B MATCH LINE

OG

HST TOR 222.06

PROFILE

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

6% 4% 2% 0% -2% -4% -6%

260 255 250 245 240 235 230 225 220 215 210

2 3 4 145 6 7 8 9 150 1 2 3 4 155 6

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8121-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled
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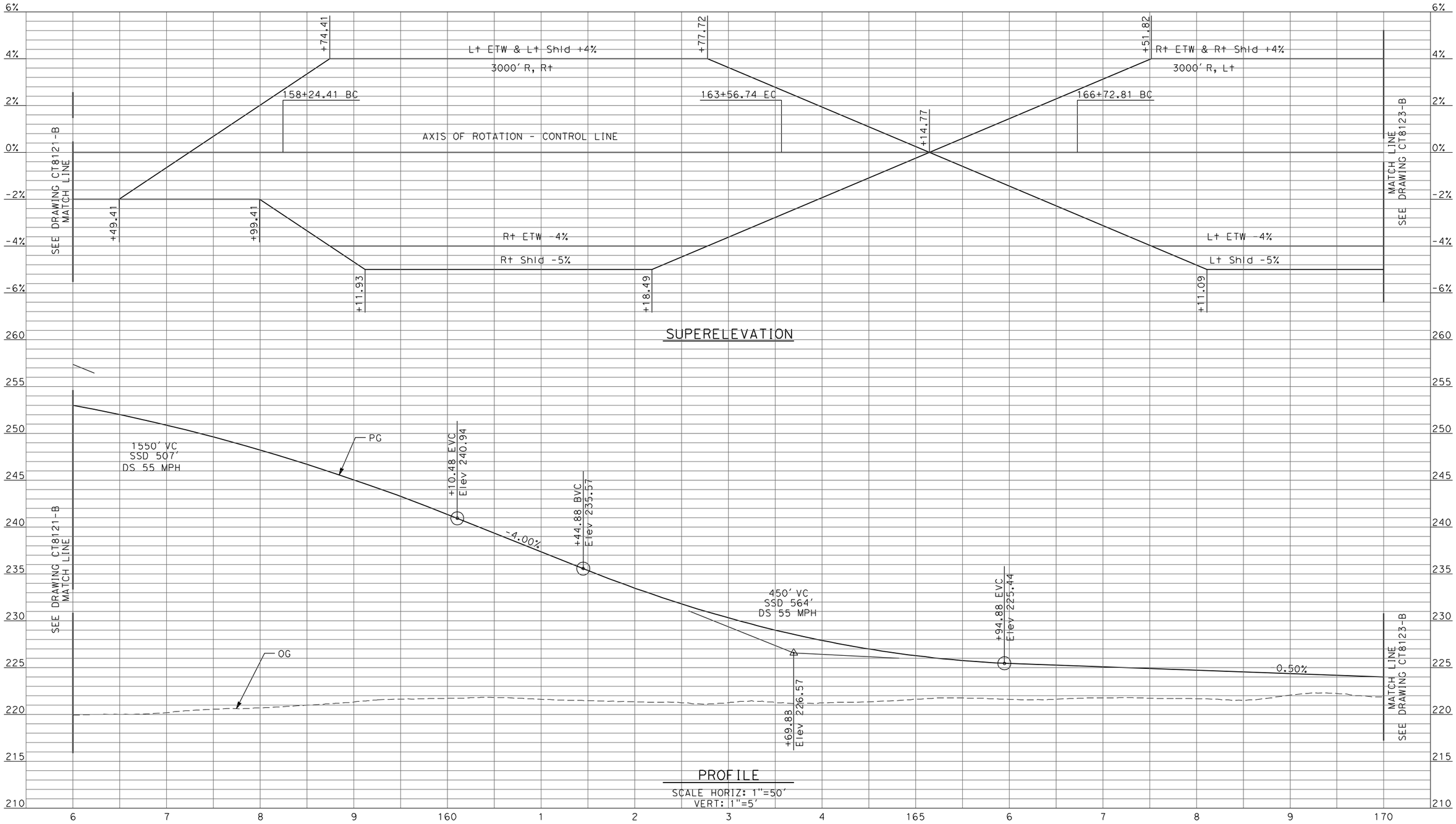

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
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IN CHARGE: A. BOONE
DATE: 04/29/2011

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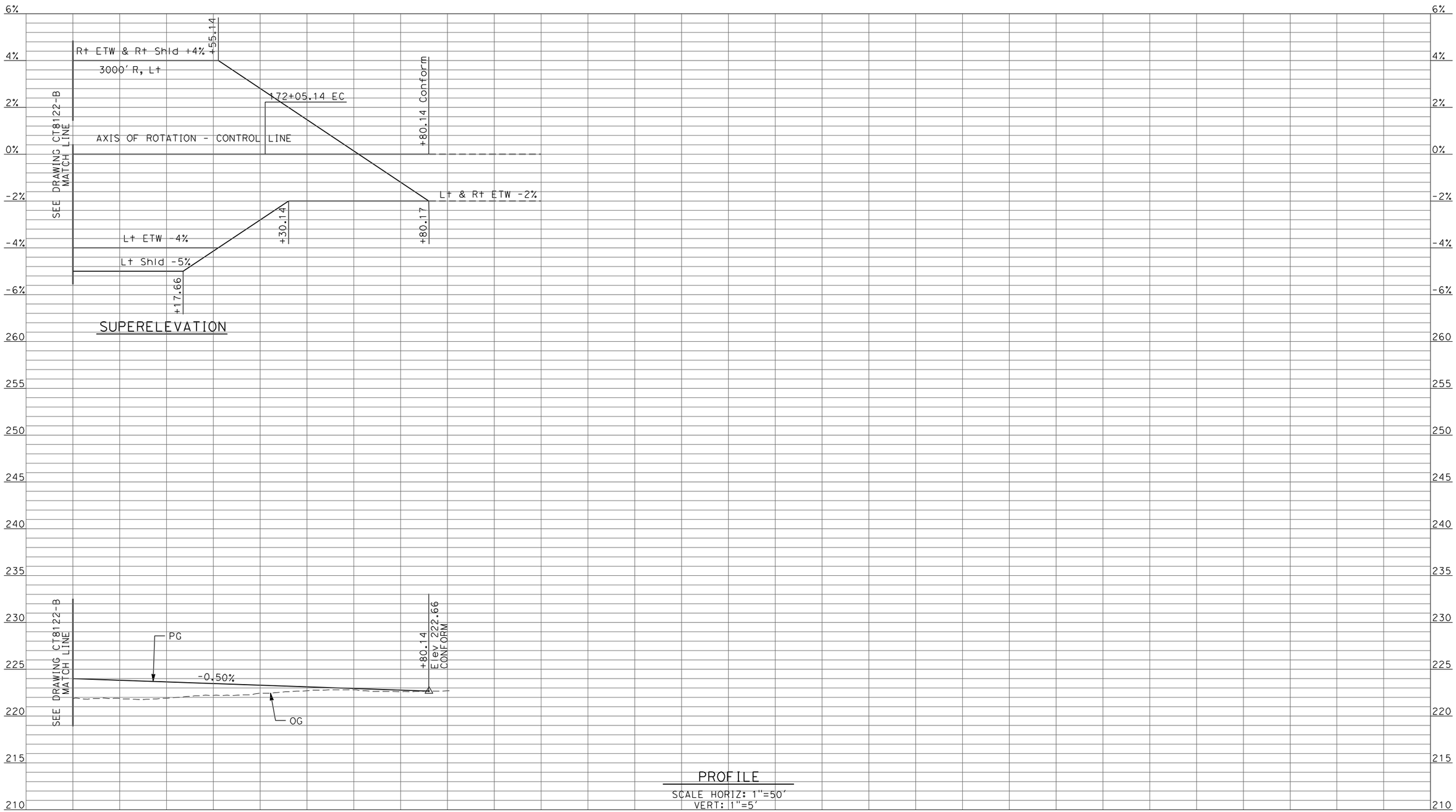
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8122-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8123-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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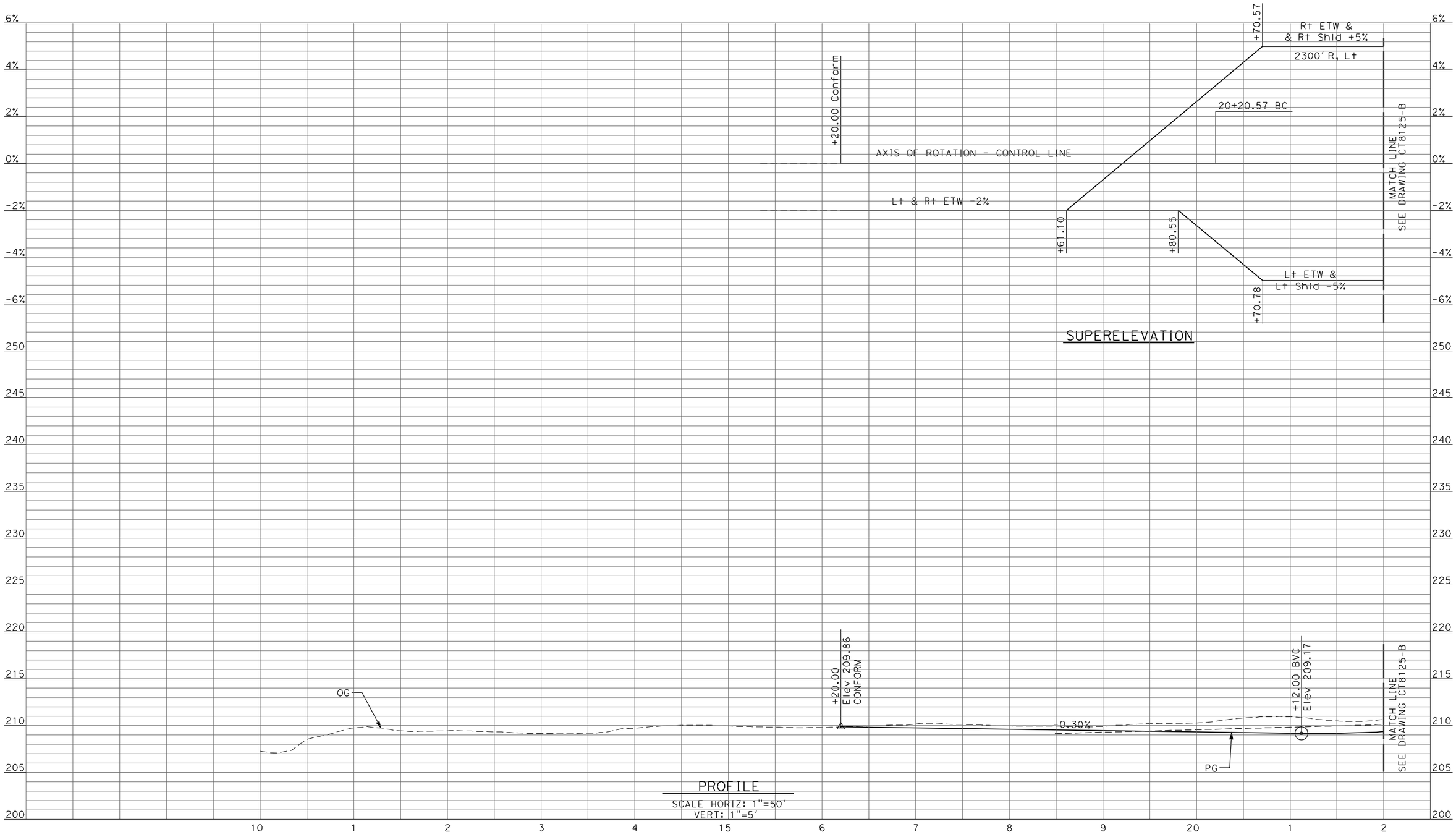

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
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CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
GRADE SEPARATION - SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8124-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

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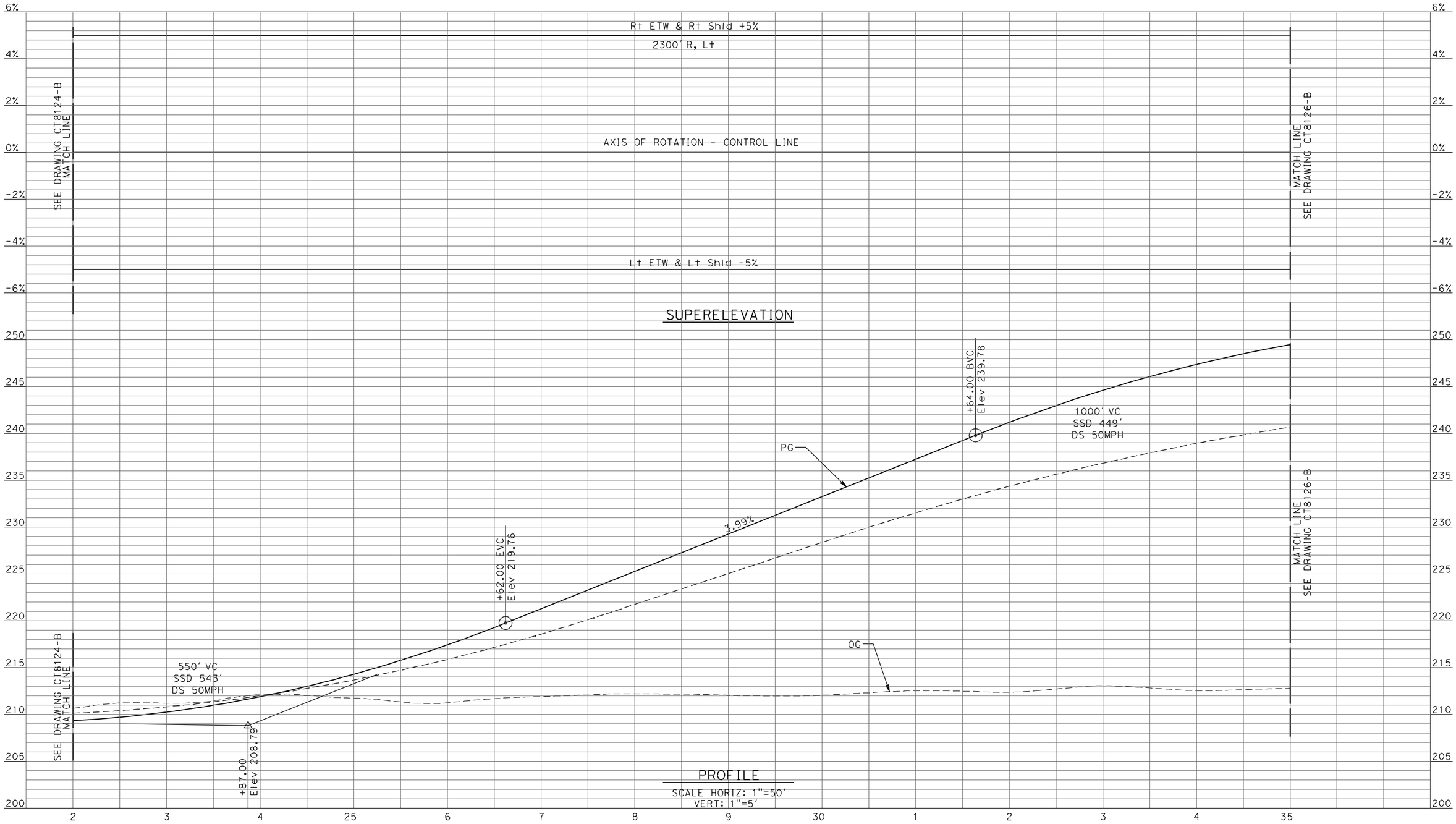
ayeled



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
GRADE SEPARATION - SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8125-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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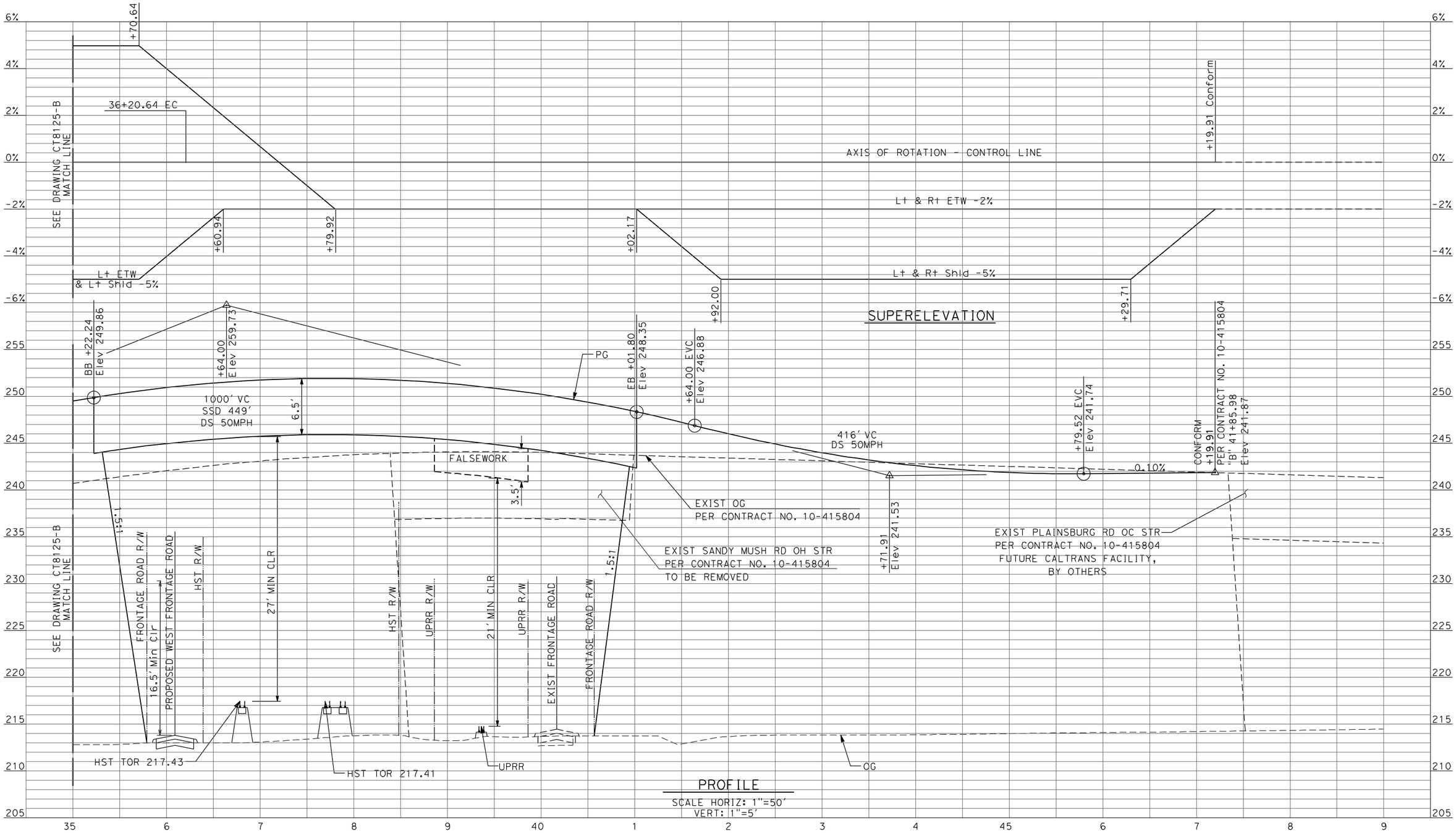

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
GRADE SEPARATION - SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8126-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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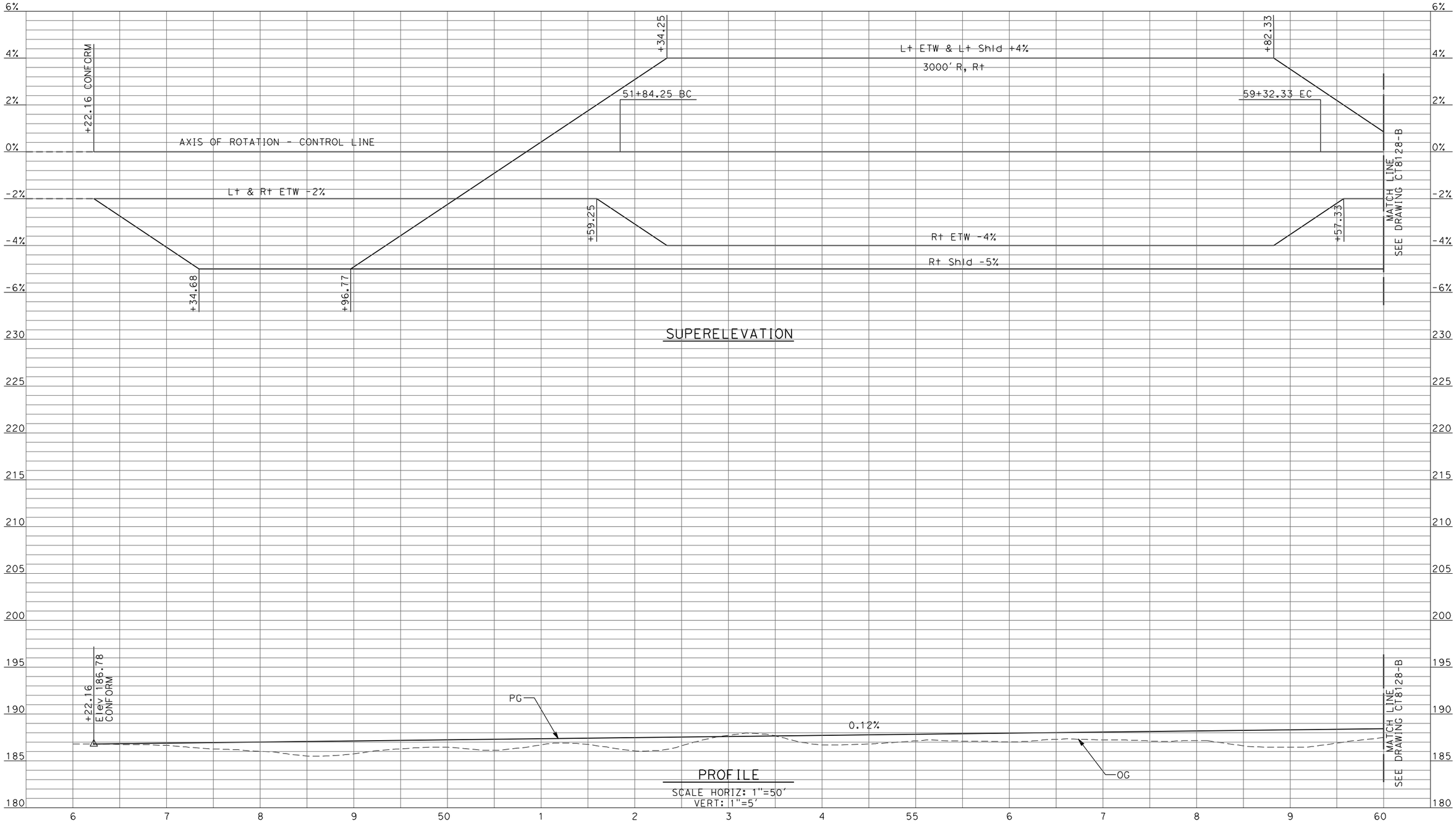

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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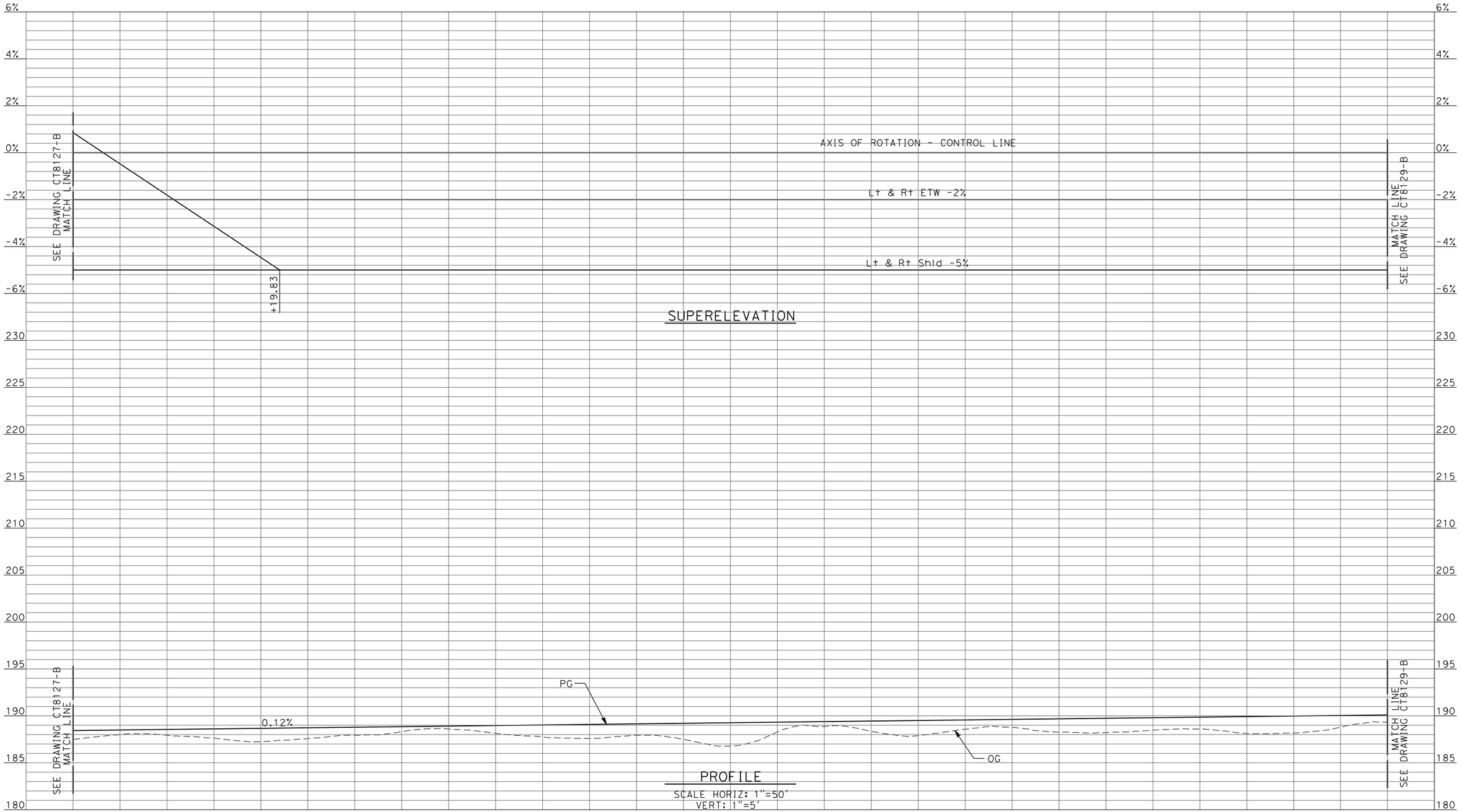
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8127-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8128-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

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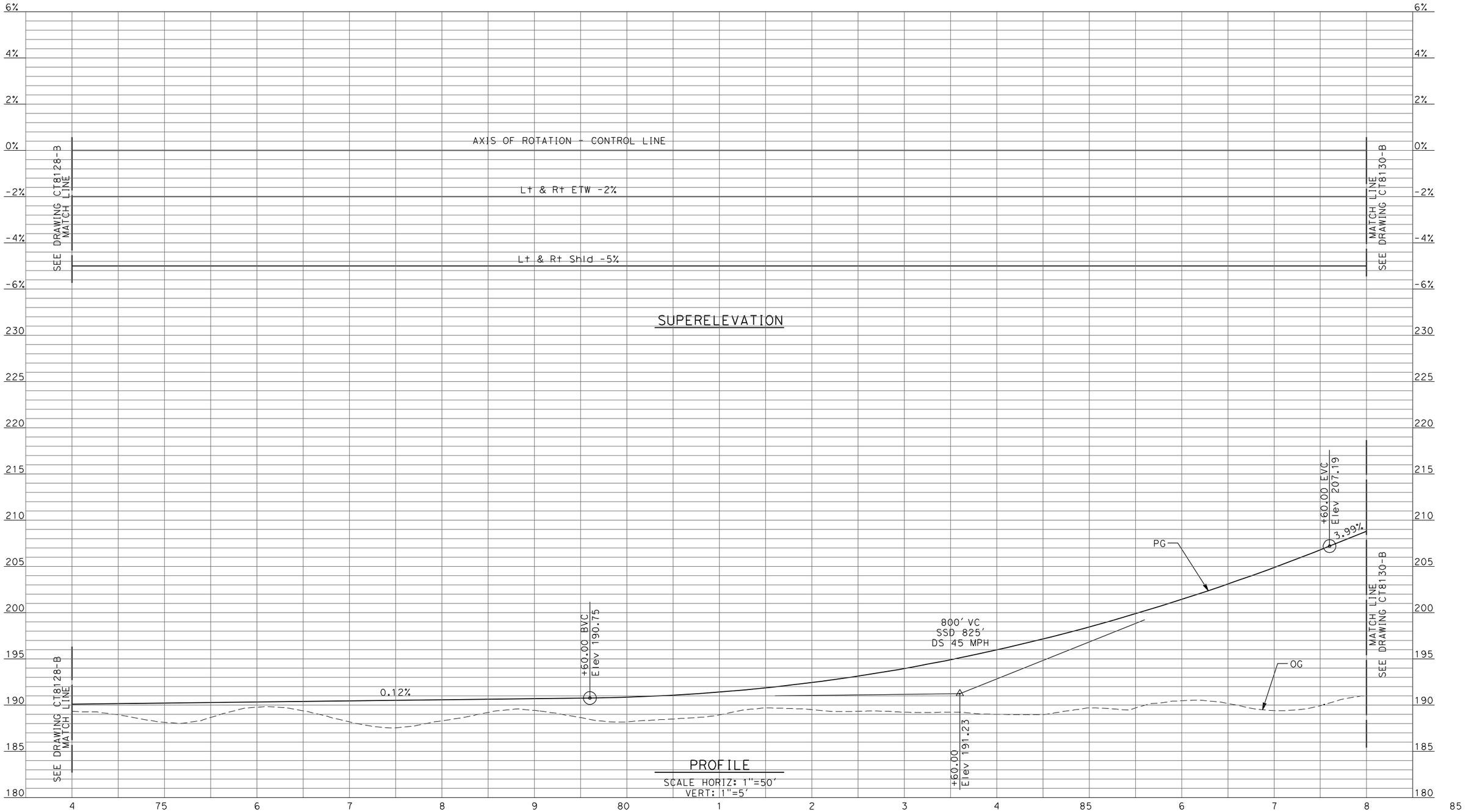

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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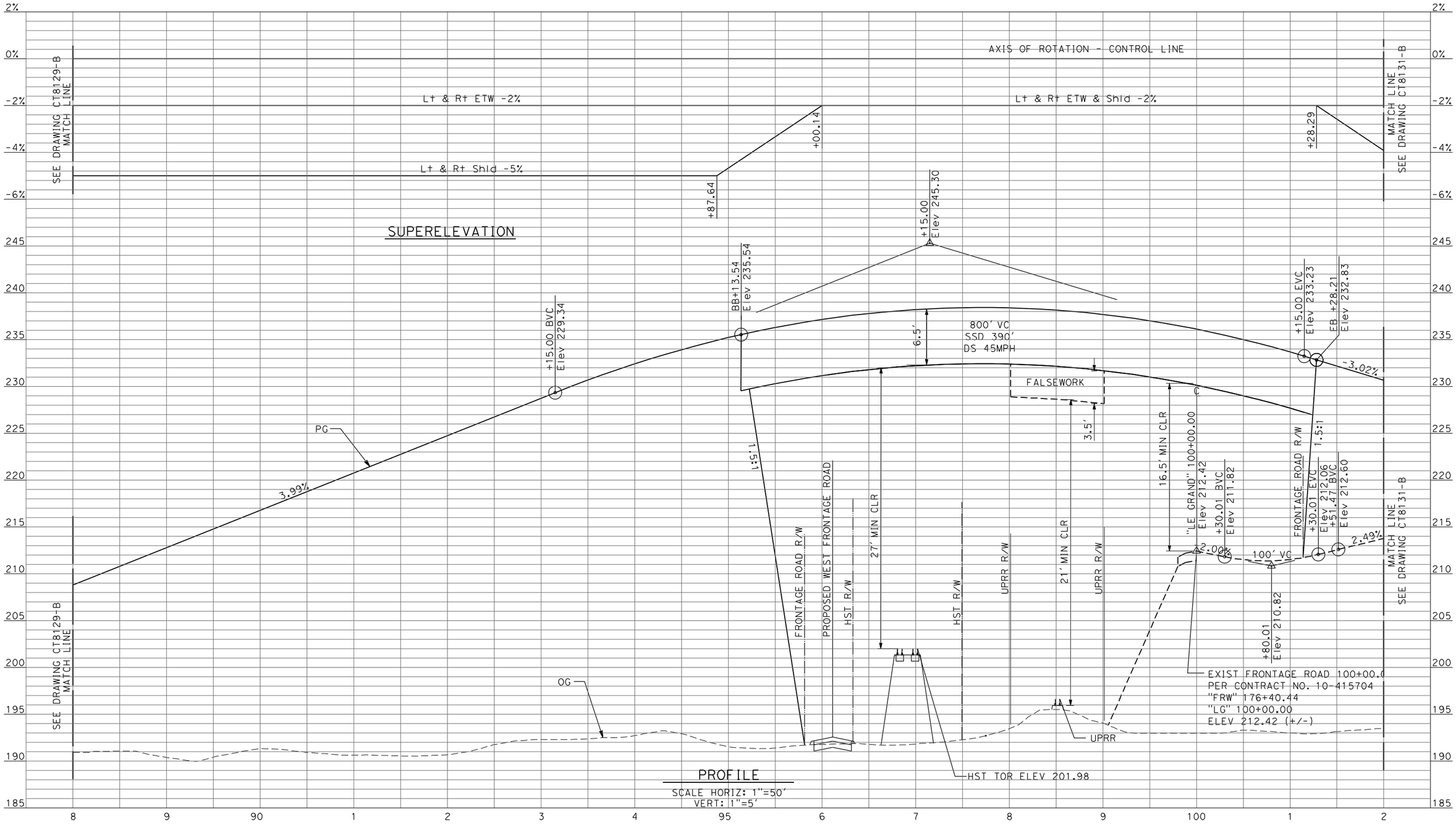
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8129-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ayeled 4/27/2011 6:40:12 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 2b - ave 24 wye-w.chowchilla caltrans facilities\Profile\CT8130-B.dgn



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CHECKED BY: A. SILVER
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DATE: 04/29/2011

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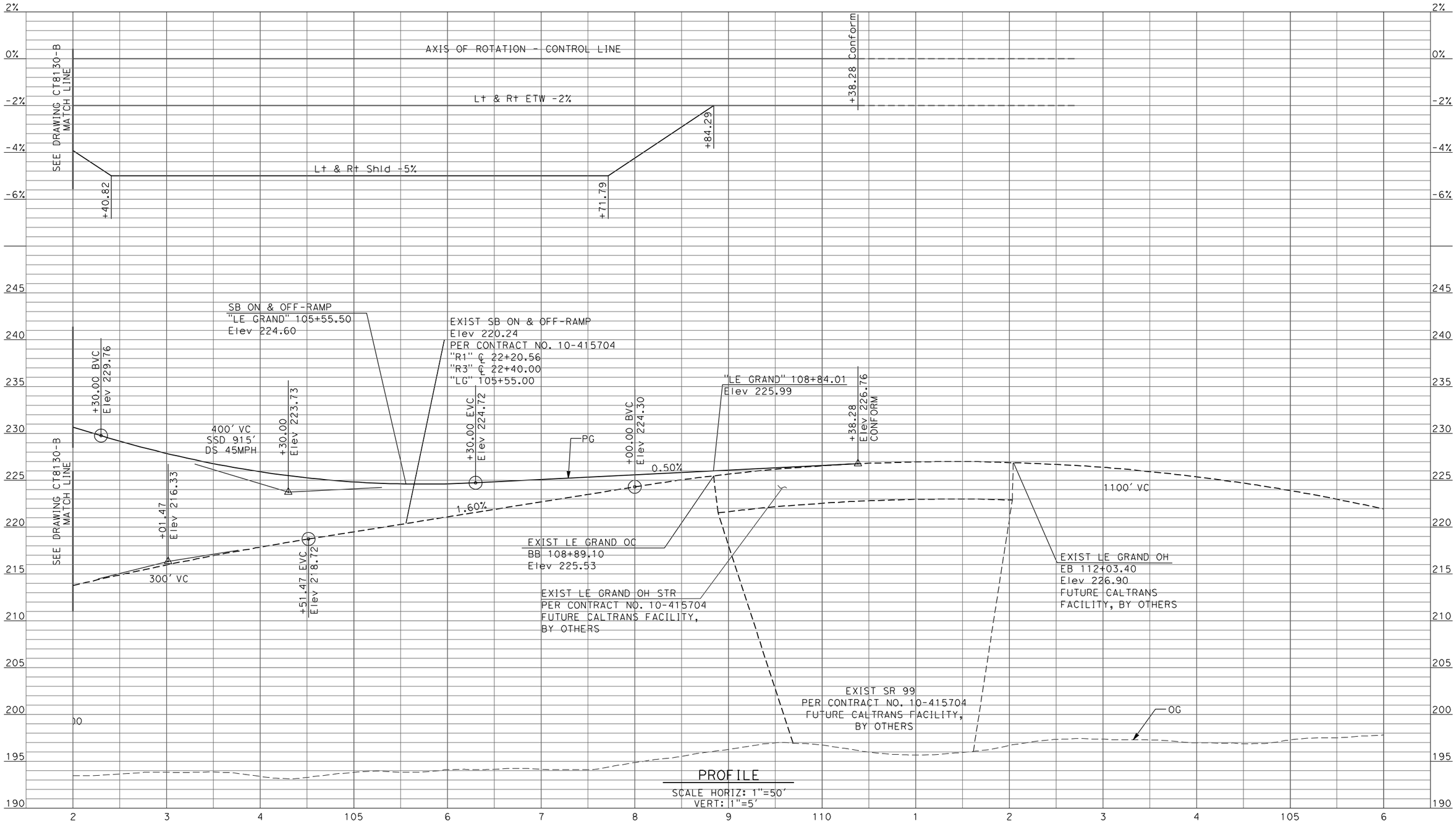
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8130-B
SCALE AS SHOWN
SHEET NO. ### OF ###



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

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8131-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

PER CONTRACT NO. 10-415704
GRADE CONTROL BY "A" (RTE 99)
CROSS SLOPE
FUTURE CALTRANS FACILITY, BY OTHERS

+90.02
Elev 202.20

-0.37%

+55.19
Elev 200.46

-0.43%

PG

+00.00 BVC
Elev 198.99

200' VC

+00.00
Elev 198.56

0.30%

+65.00 BVC
Elev 199.35

470' VC

MATCH LINE
SEE DRAWING CT8133-B

OG

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

REV	DATE	BY	CHK	APP	DESCRIPTION

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CHECKED BY A. SILVER
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8132-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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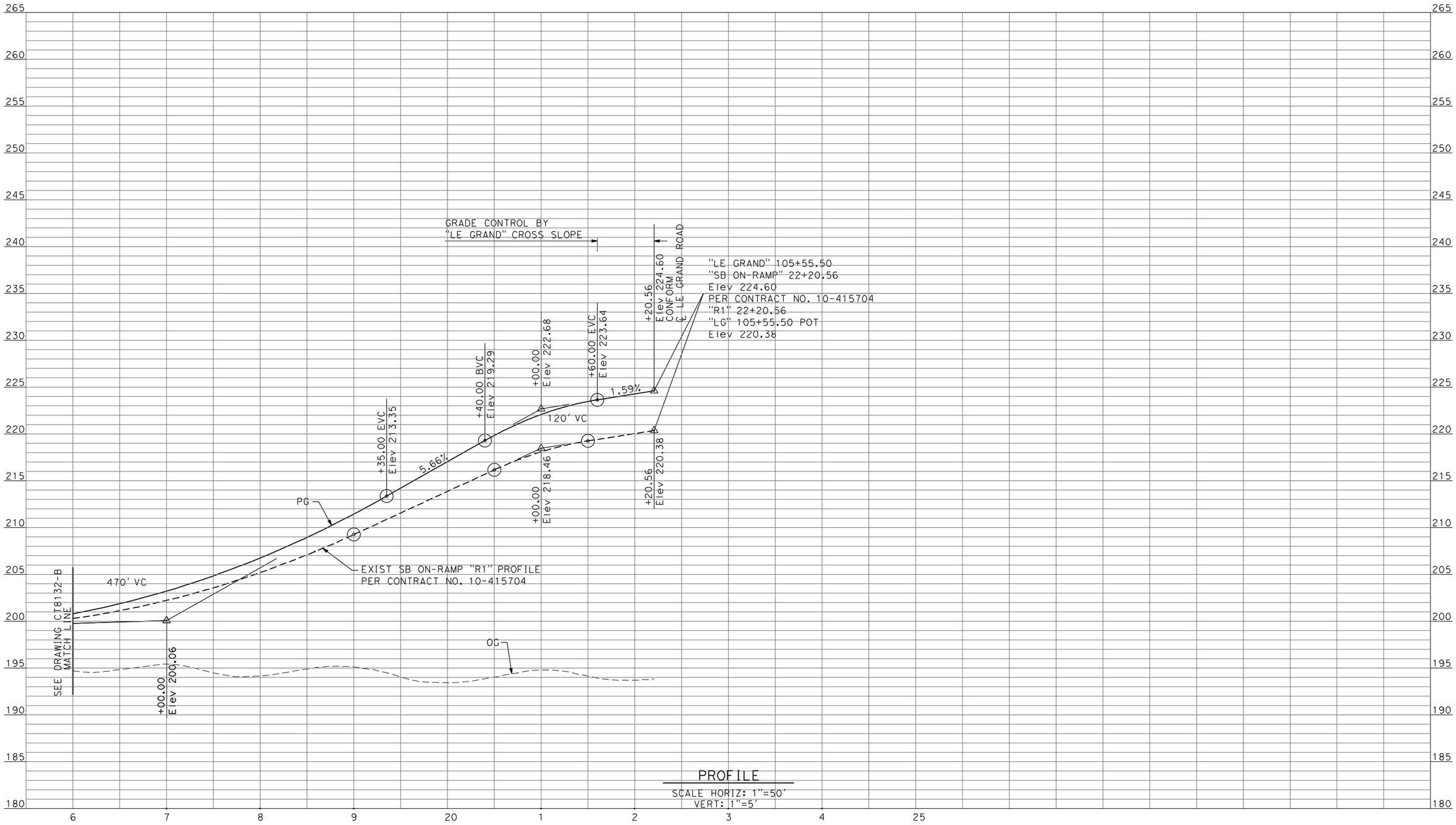

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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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

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8133-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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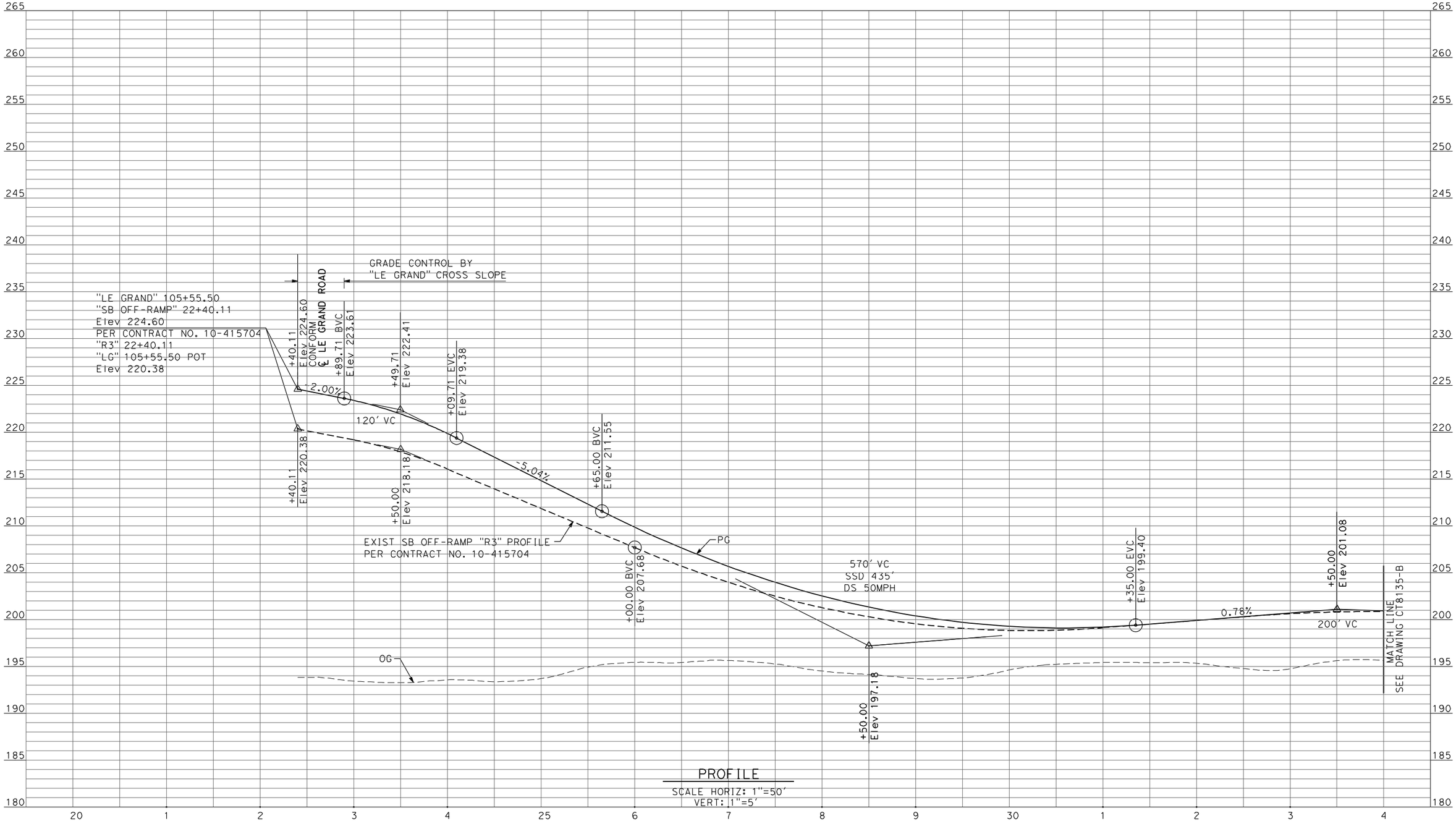

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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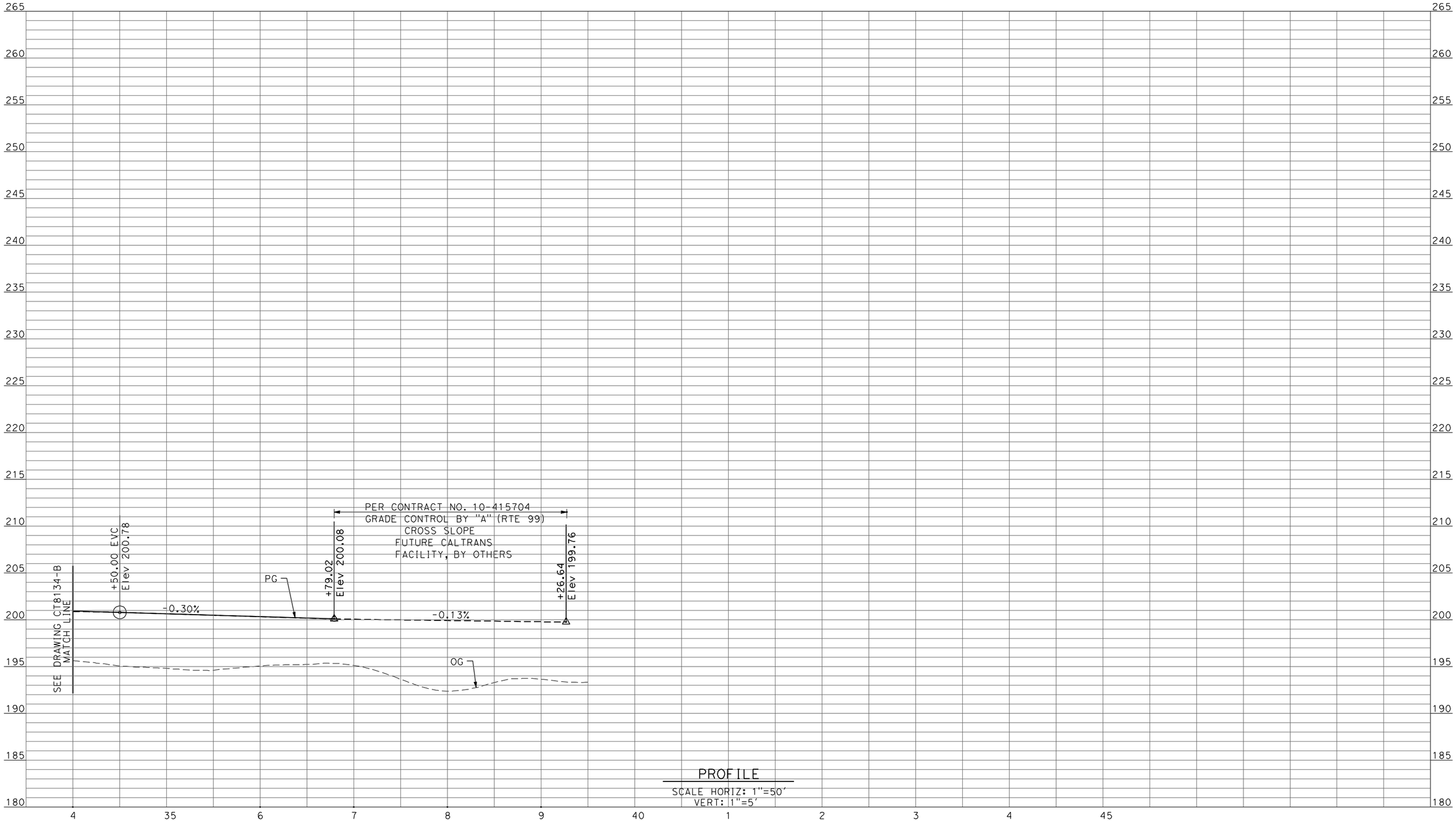
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8134-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8135-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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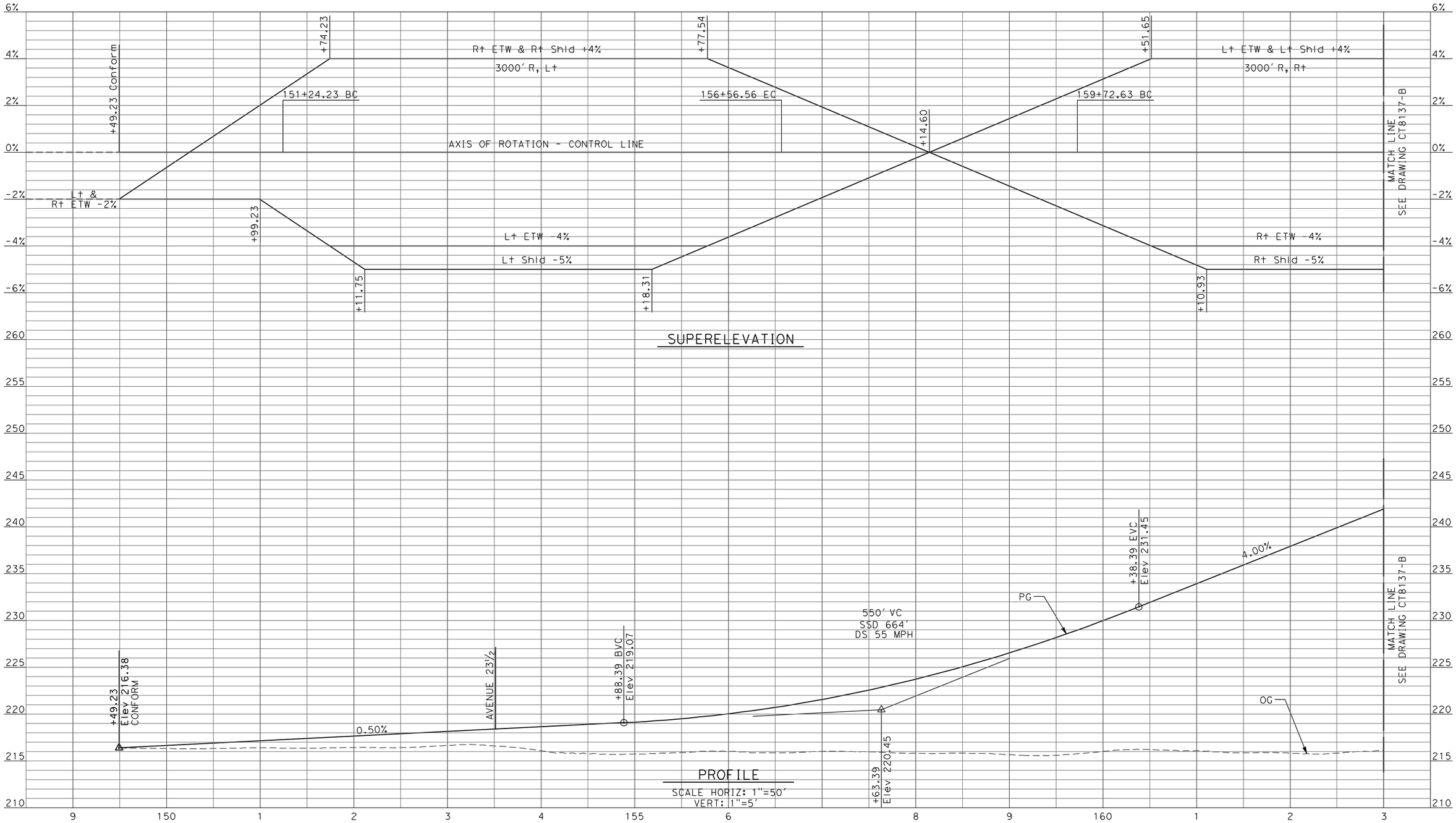

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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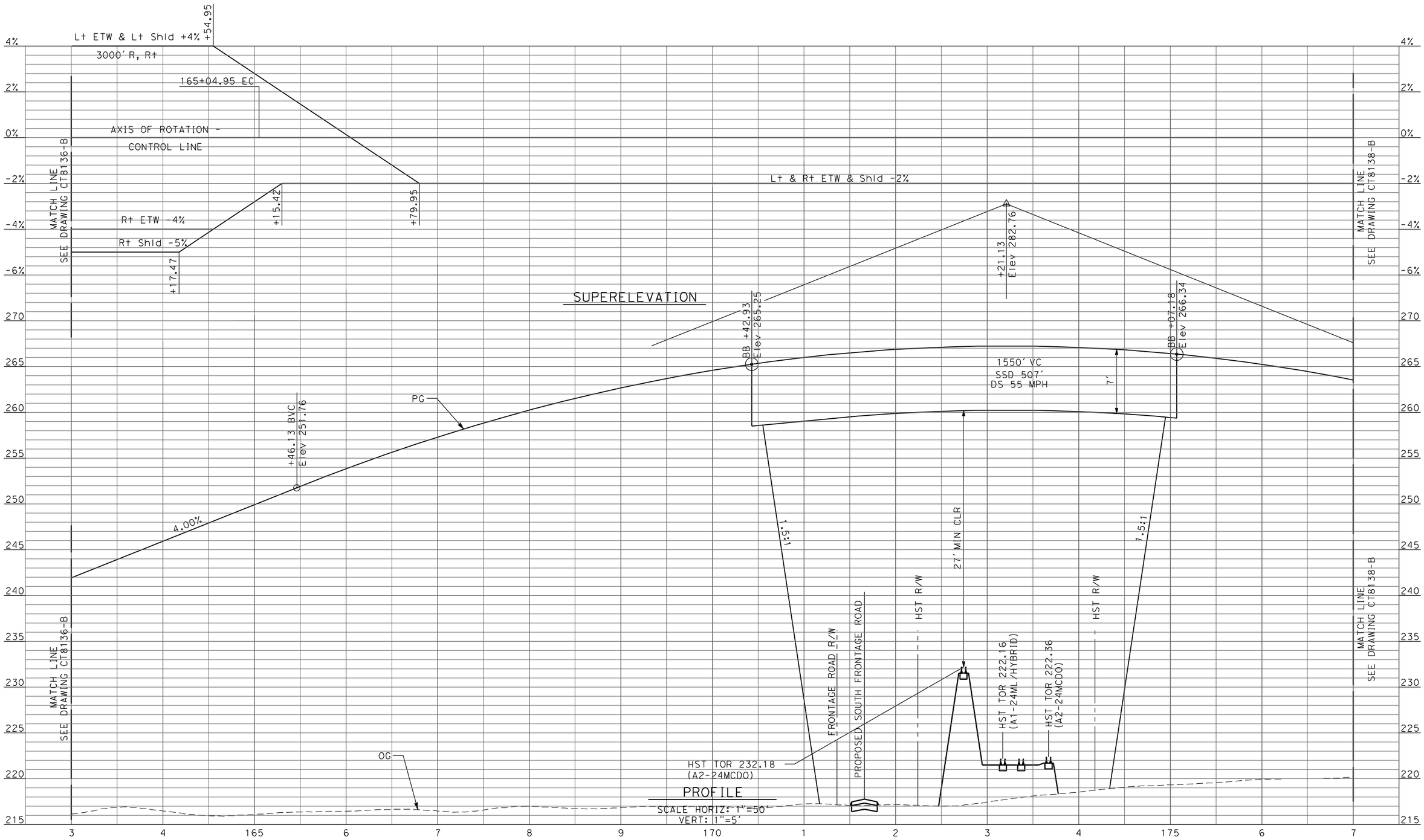
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8136-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8137-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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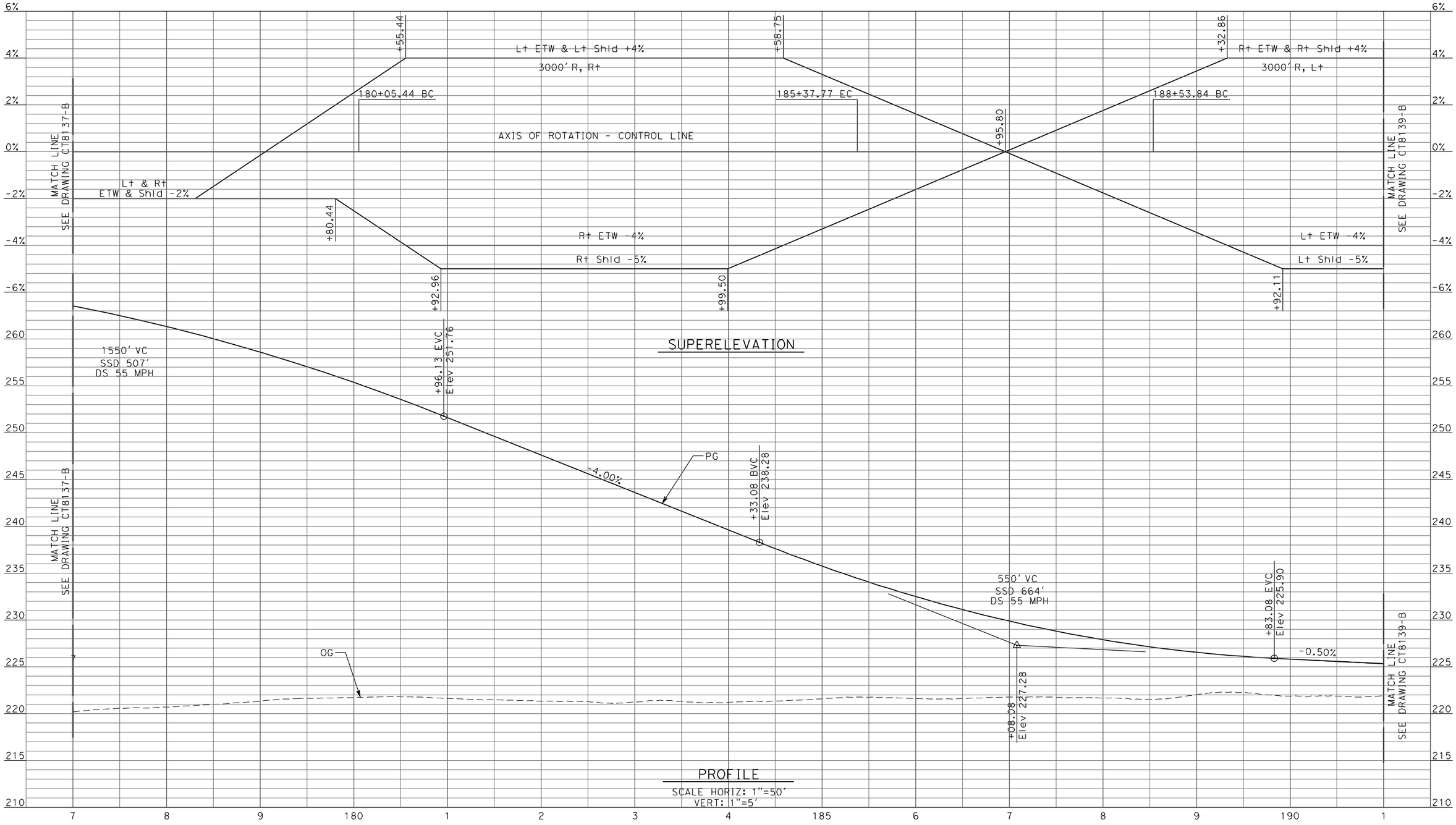

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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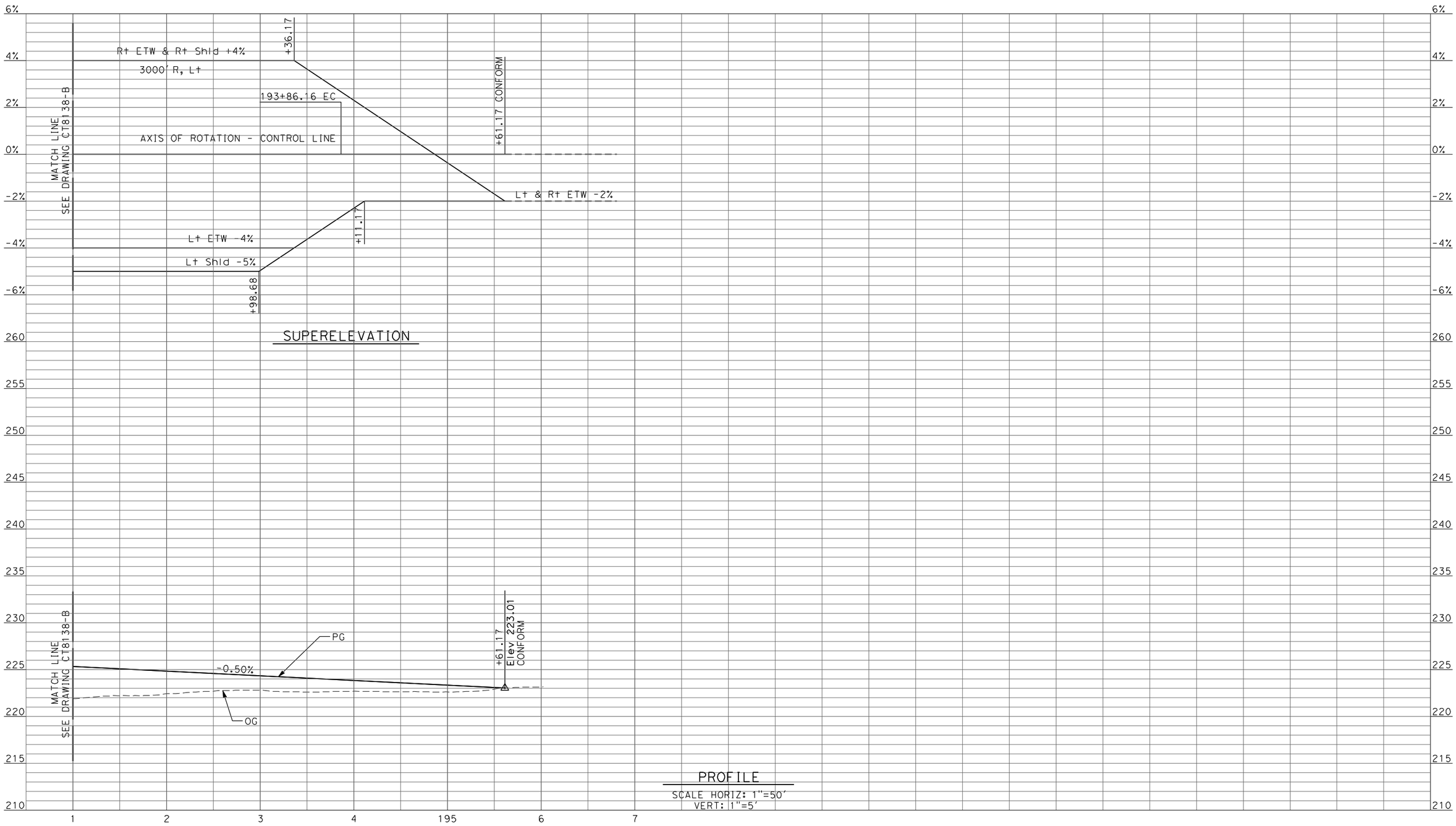
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8138-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8139-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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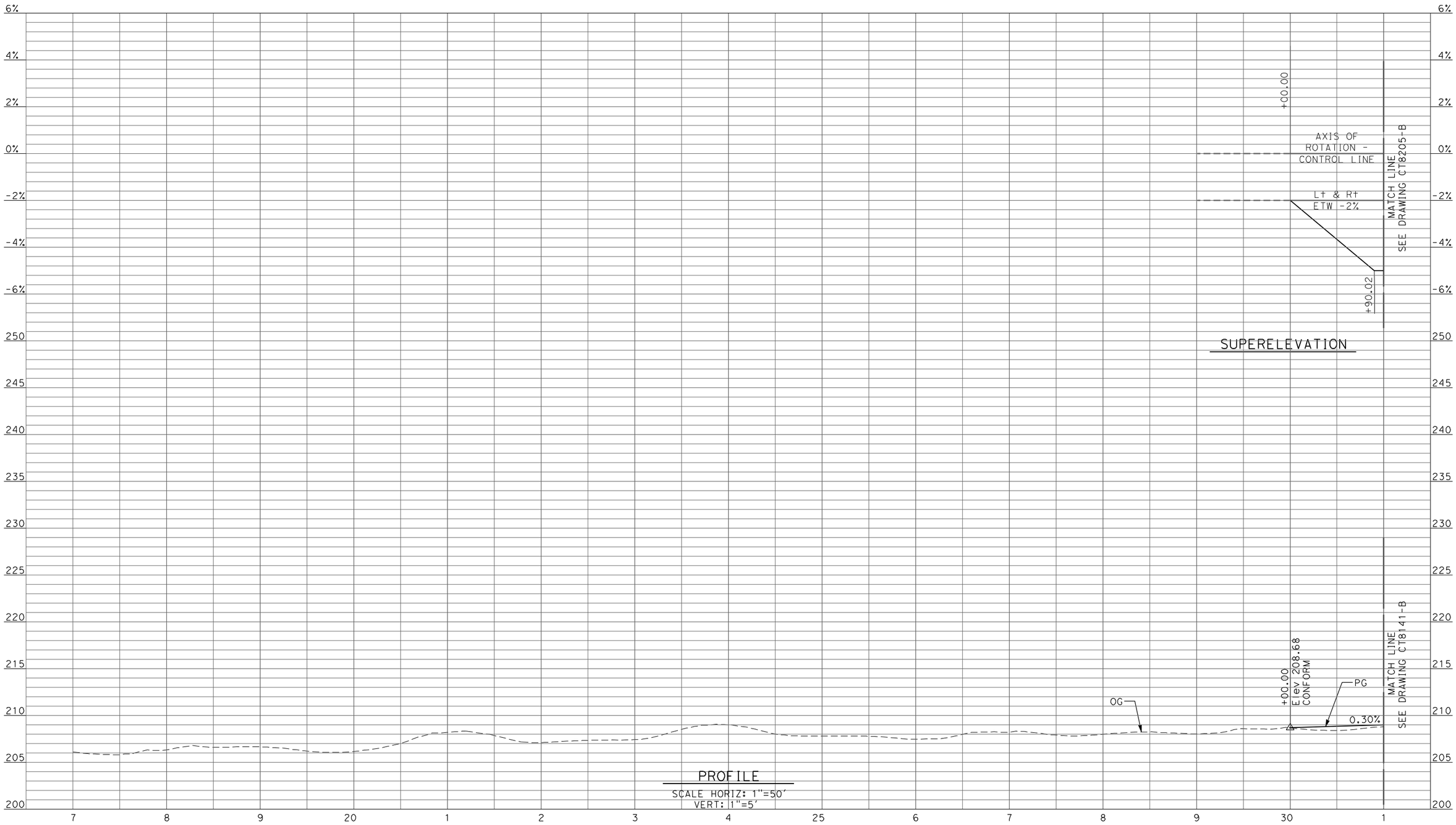

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8140-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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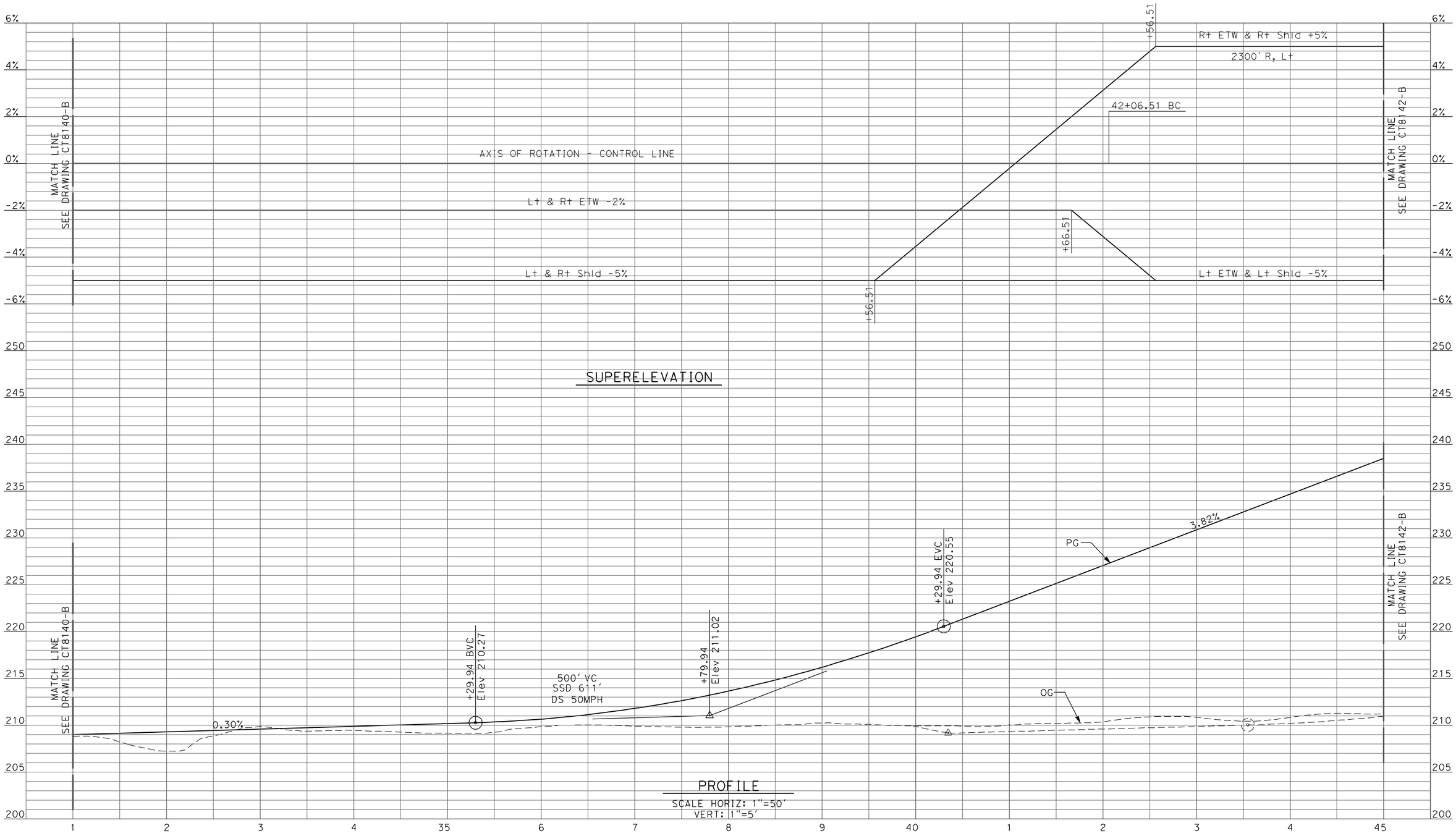

SUPERELEVATION

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8141-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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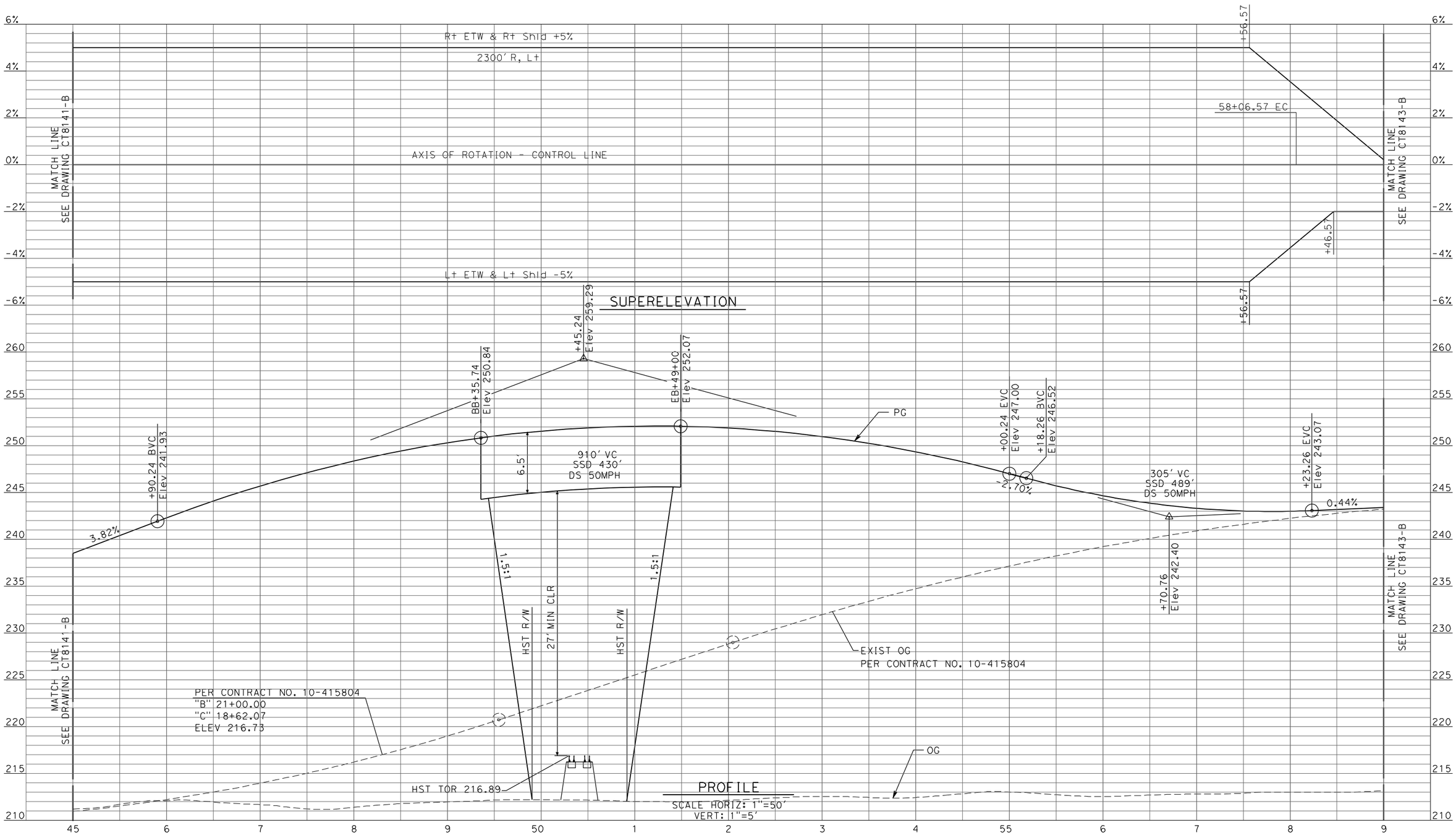

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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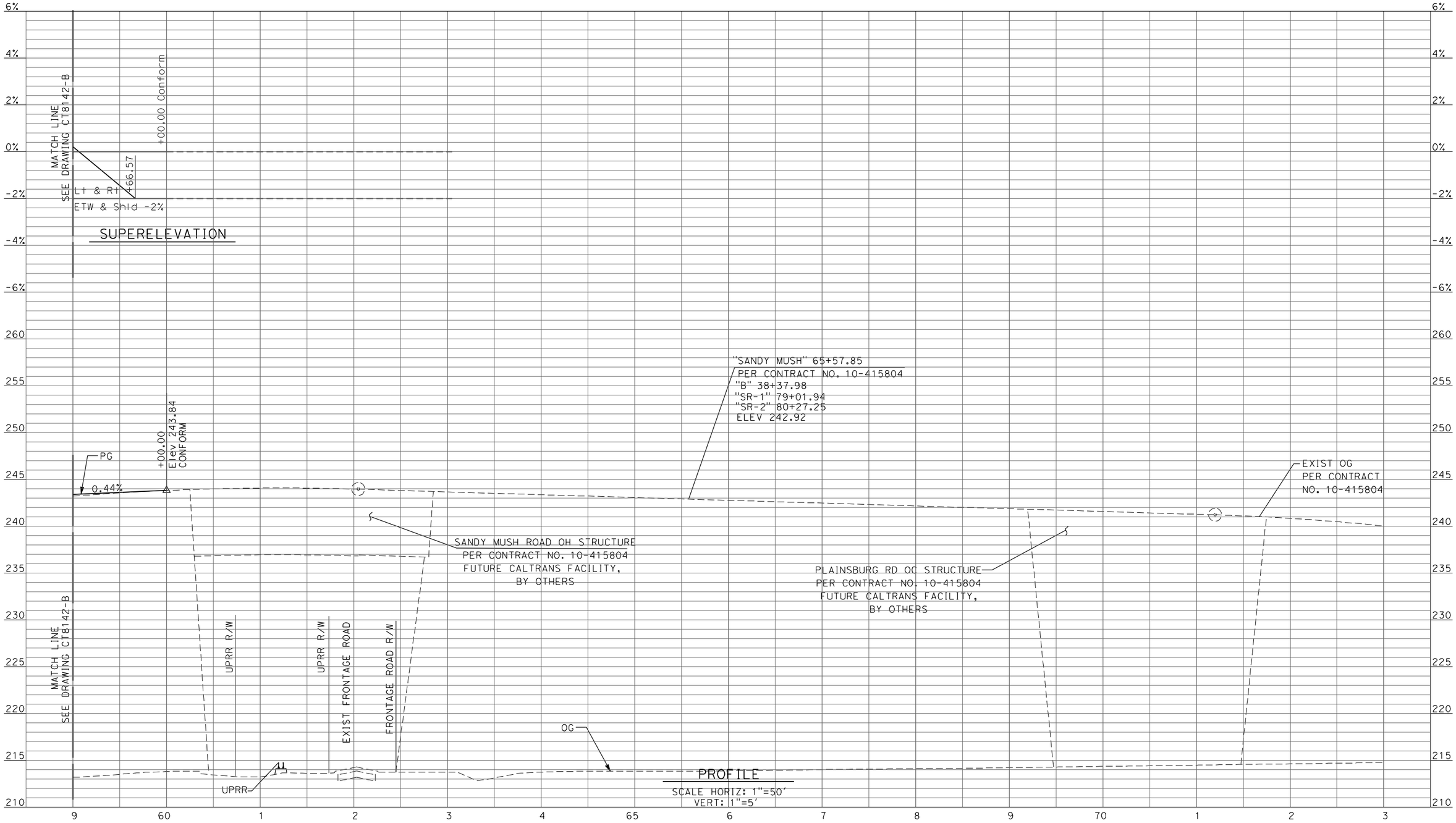
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8142-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
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DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8143-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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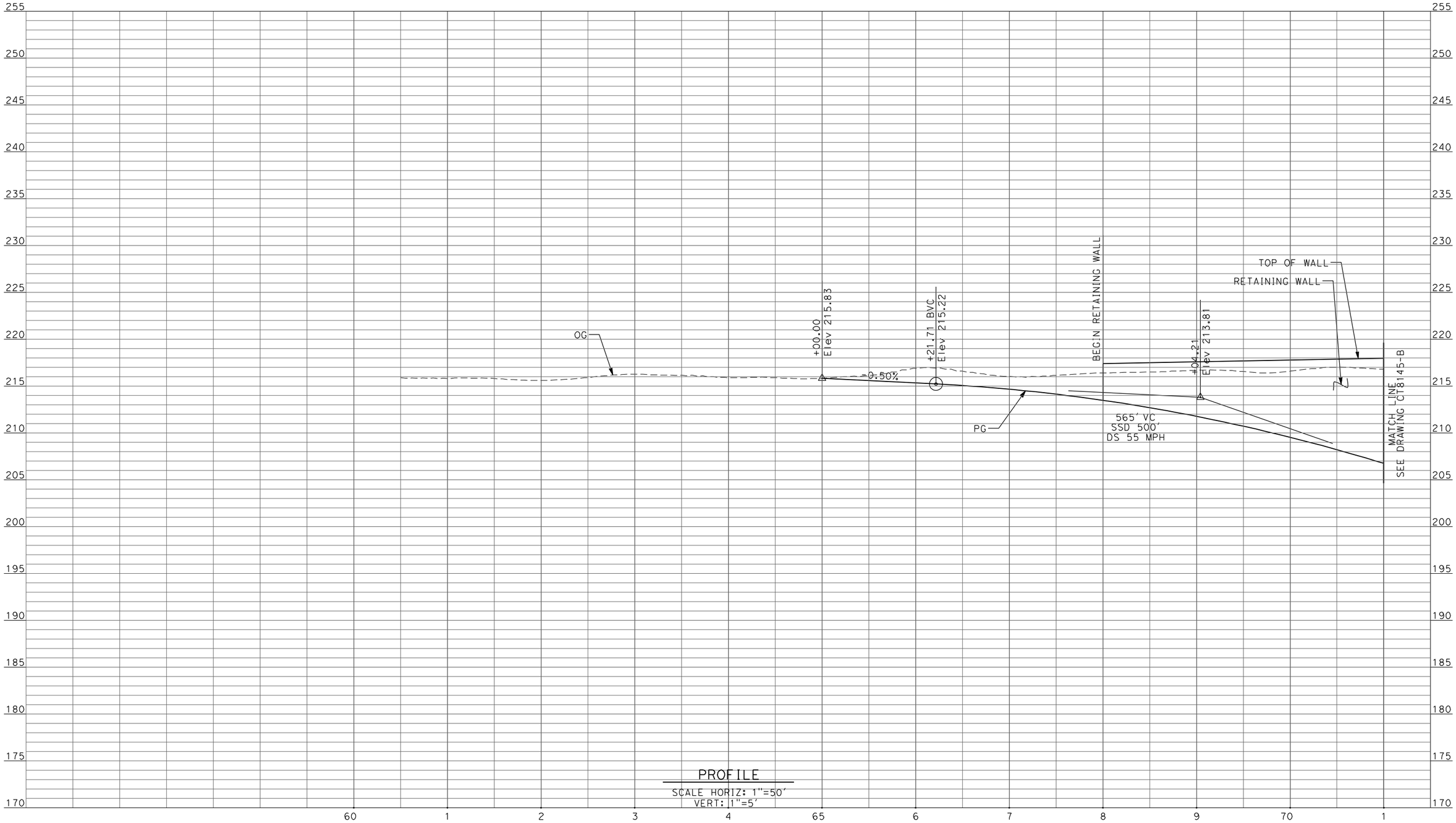

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8144-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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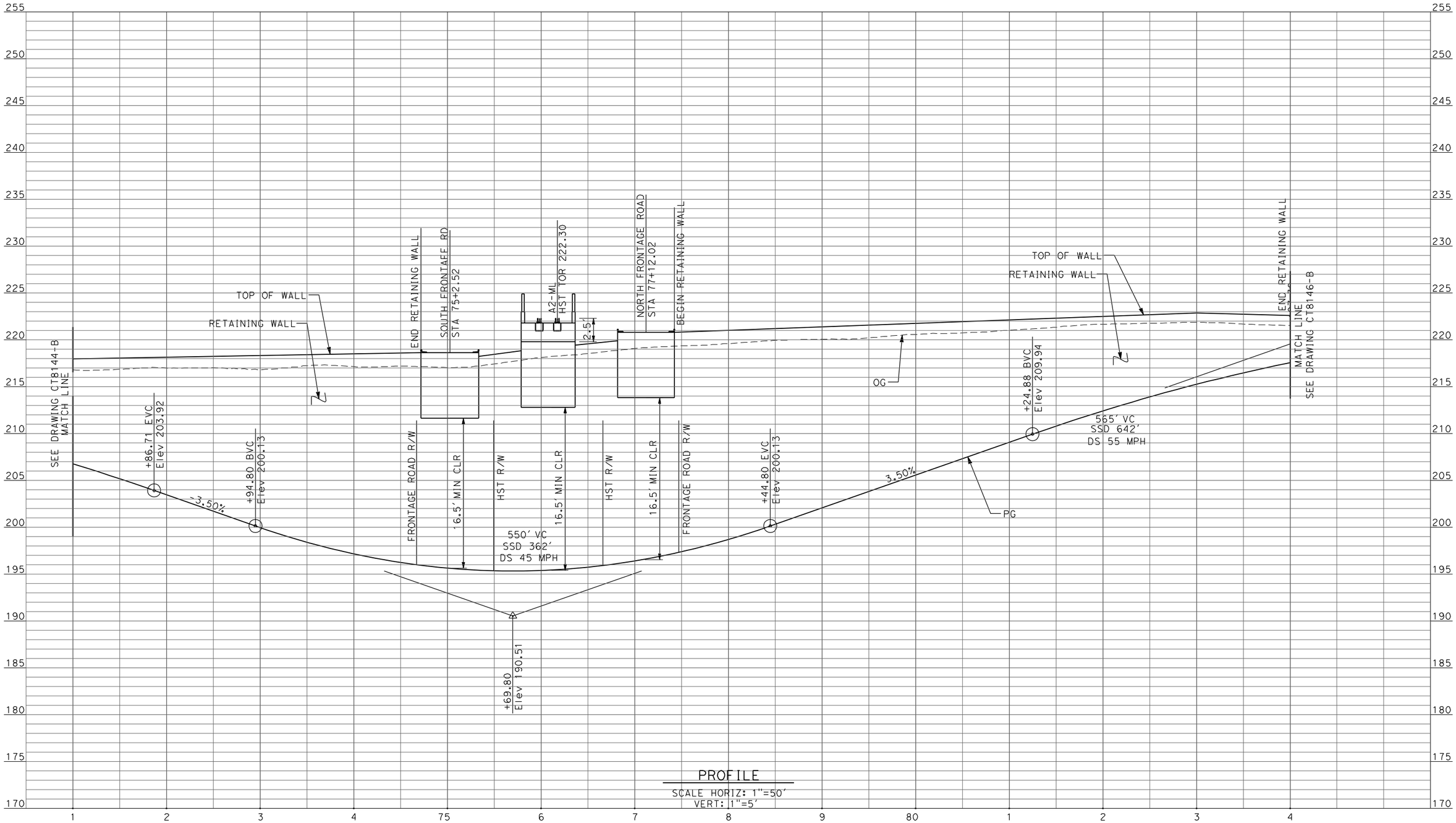

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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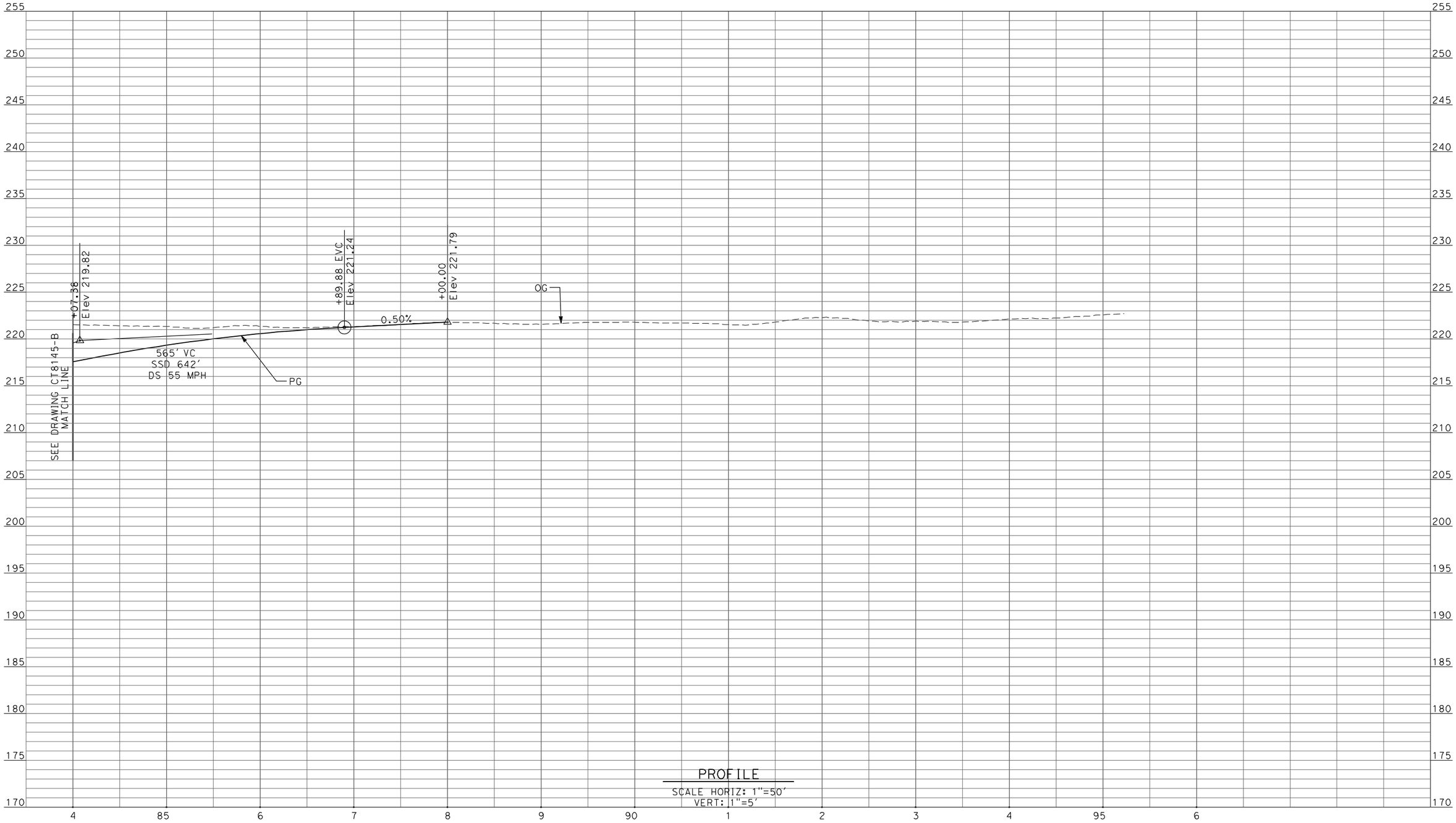
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8145-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8146-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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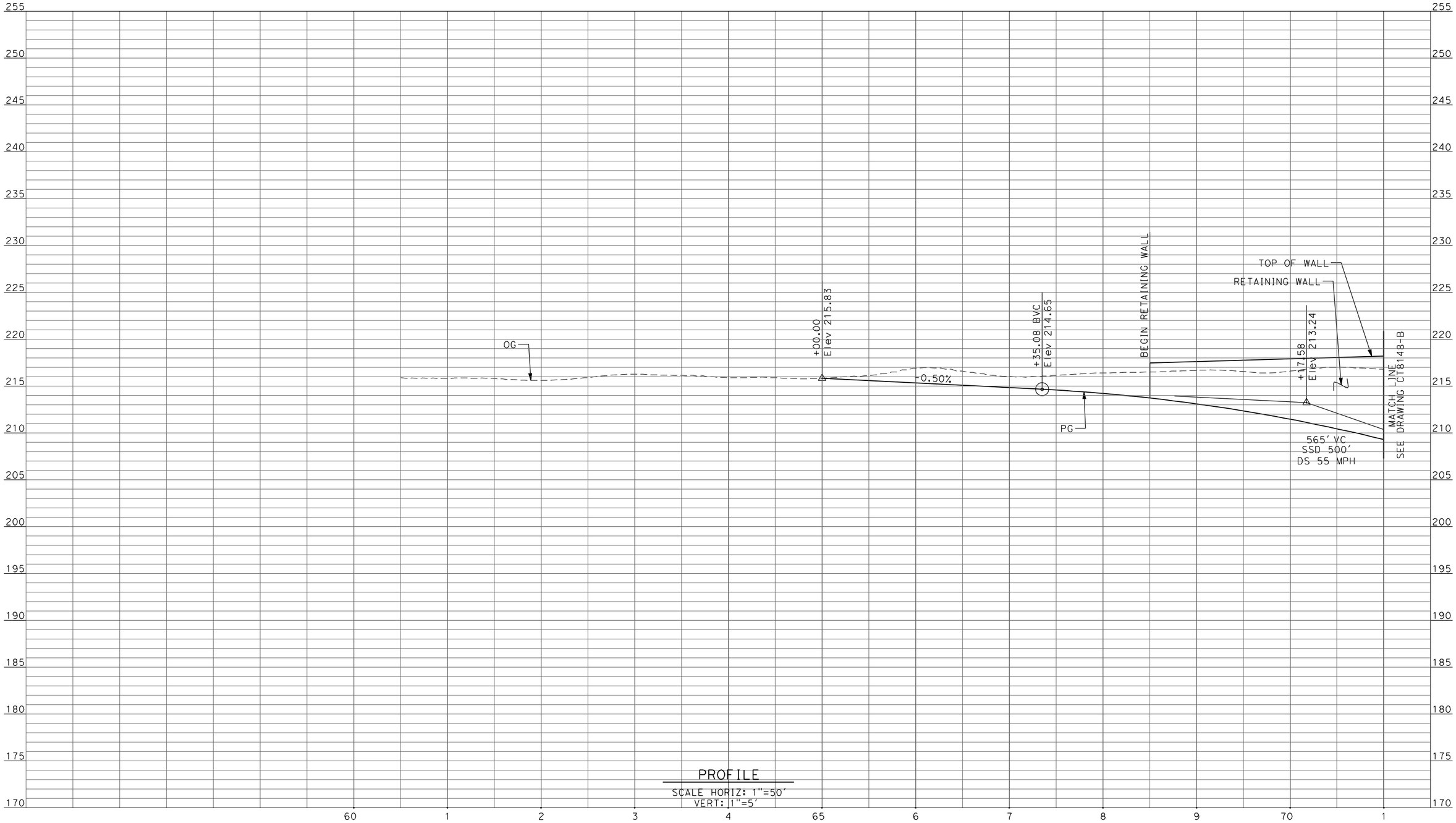

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8147-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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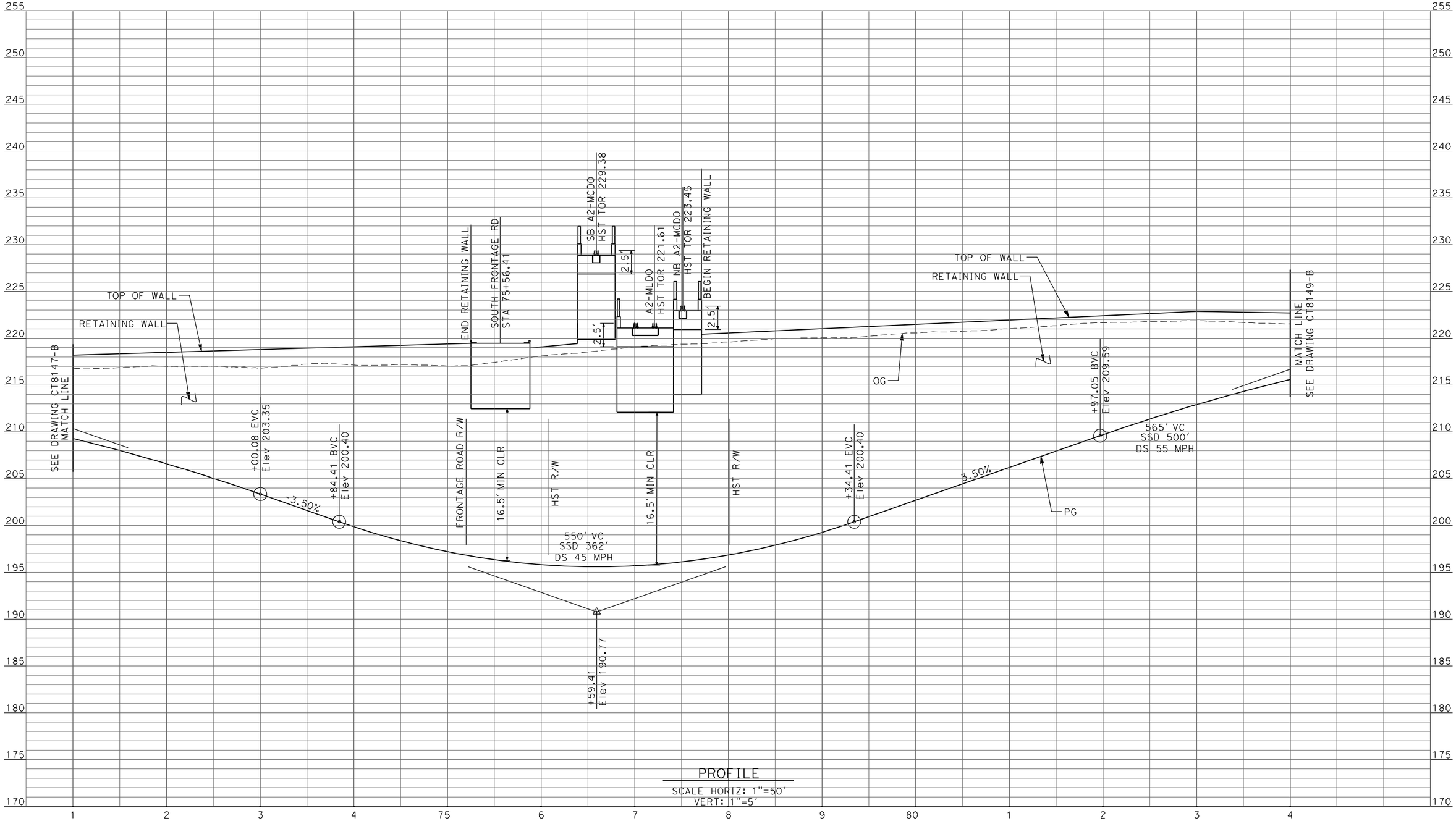

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8148-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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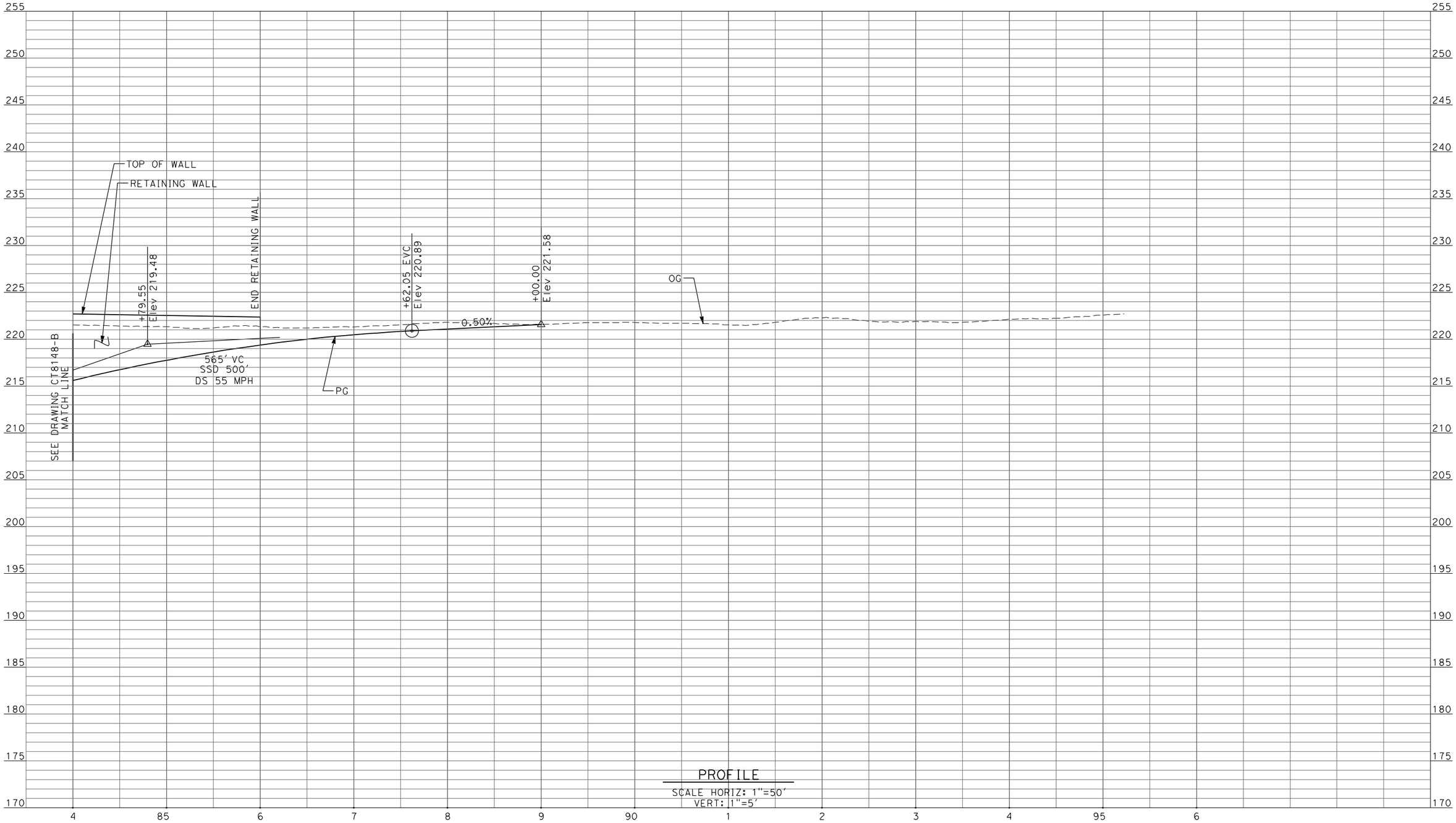

PROFILE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
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CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8149-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE LINE 6
ROADWAY BRIDGE STRUCTURE PLANS UPRR/SR 99 AVENUE 24 ALTERNATIVE					
GENERAL					
	SB1221	UPRR/SR 99 ALTERNATIVE	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 1
	SB1222	UPRR/SR 99 ALTERNATIVE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 1 OF 1
OVERHEAD BRIDGES					
	ST1107	UPRR/SR 99 MAIN LINE	AVENUE 21	AVENUE 8 OVERHEAD - REPLACEMENT	PLANNING STUDY
	ST1108	UPRR/SR 99 MAIN LINE	AVENUE 21	AVENUE 9 OVERHEAD - REPLACEMENT	PLANNING STUDY - BRIDGE AT UPRR
	ST1109	UPRR/SR 99 MAIN LINE	AVENUE 21	AVENUE 9 OVERCROSSING - REPLACEMENT	PLANNING STUDY - BRIDGE AT SR 99
	ST1110	UPRR/SR 99 MAIN LINE	AVENUE 21	AVENUE 11 OVERHEAD - REPLACEMENT	PLANNING STUDY
	ST1141	UPRR/SR 99 MAIN LINE	AVENUE 24	SR 233 OVERHEAD	PLANNING STUDY
	ST1142	UPRR/SR 99 MERCED & WYE CONNECTIONS	AVENUE 24	SANDY MUSH ROAD OVERHEAD	PLANNING STUDY
	ST1114	UPRR/SR 99 MERCED CONNECTION	AVENUE 21	LE GRAND ROAD OVERHEAD	PLANNING STUDY
	ST1143	UPRR/SR 99 MAIN LINE/W CHOWCHILLA	AVENUE 24	SR 233 OVERHEAD	PLANNING STUDY
	ST1181	UPRR/SR 99 MERCED CONNECTION	AVENUE 21	SR 99 SOUTHBOUND OVERHEAD	PLANNING STUDY

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5/1/2011 9:41:00 AM
DolanR

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY J. RENTERIA
CHECKED BY B. DOLAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

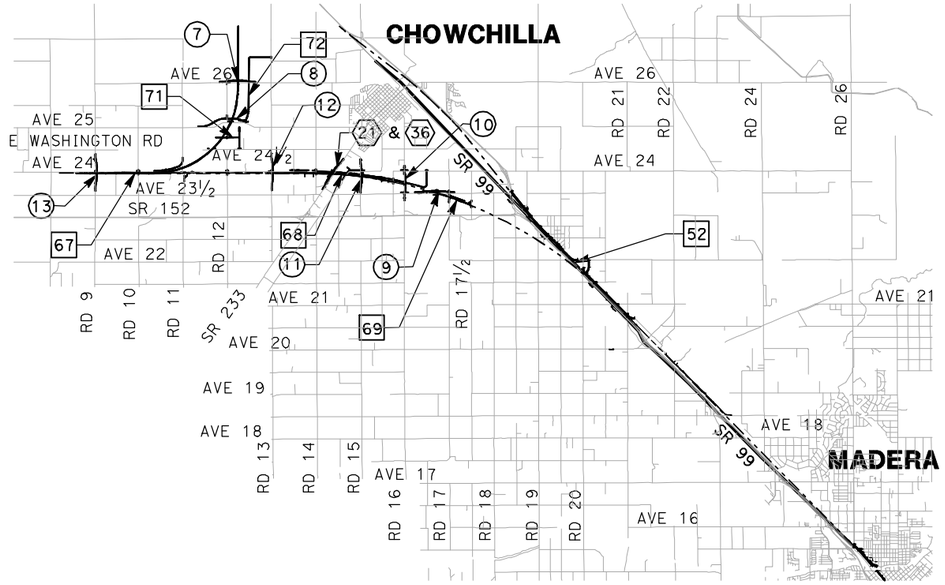
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

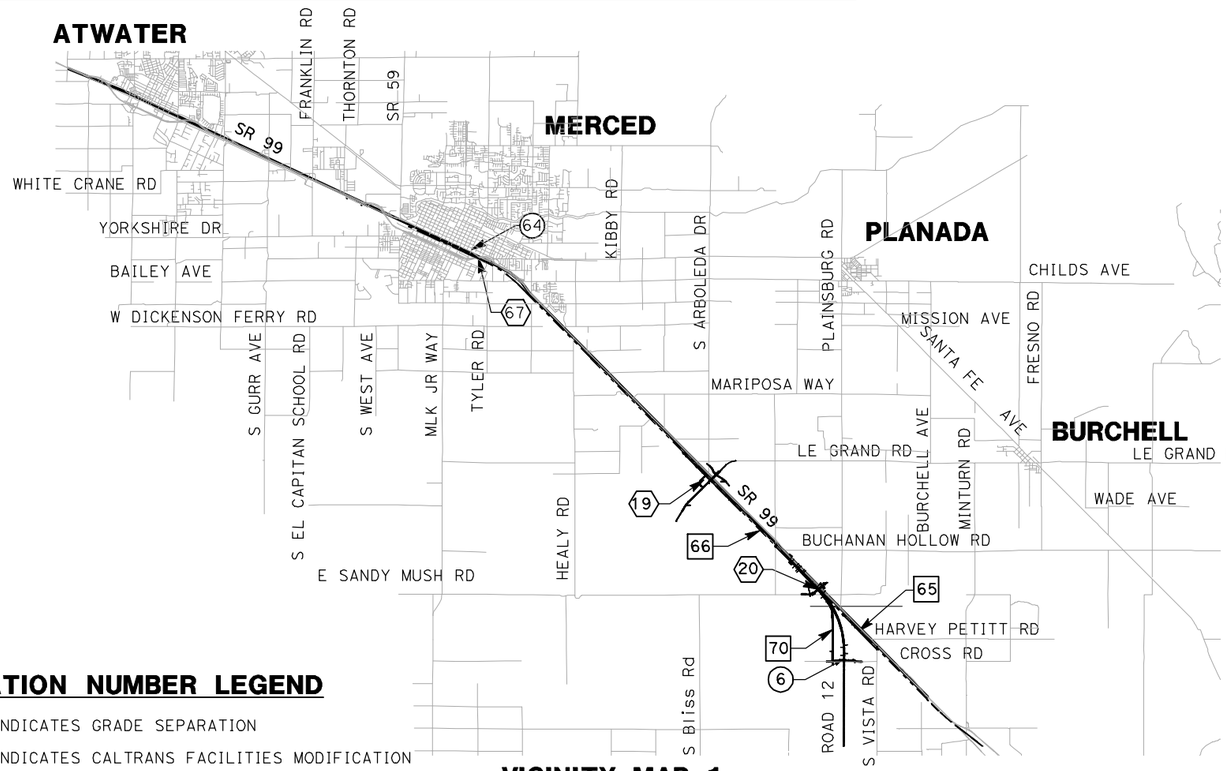
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 ALTERNATIVE
AVENUE 24
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. SB1221
SCALE No scale
SHEET NO. OF

LOCATION NO.	SHEET TITLE	STRUCTURE DRAWING NO.	ROADWAY DRAWING NO.
(6)	GRADE SEPARATION - CROSS RD	-	-
(7)	GRADE SEPARATION - AVENUE 26	-	-
(8)	GRADE SEPARATION - AVENUE 25	-	-
(9)	GRADE SEPARATION - AVENUE 23½	-	-
(10)	GRADE SEPARATION - ROAD 16	-	-
(11)	GRADE SEPARATION - ROAD 15	-	-
(12)	GRADE SEPARATION - ROAD 13	-	-
(13)	GRADE SEPARATION - HEMLOCK RD (ROAD 9)	-	-
(64)	GRADE SEPARATION - G STREET	-	-
⟨14⟩	AVENUE 8 OVERHEAD - REPLACEMENT	ST1107	CT7100-B - CT7102-B
⟨15⟩	AVENUE 9 OVERHEAD - REPLACEMENT	ST1108 & ST1109	CT7103-B - CT7109-B
⟨16⟩	AVENUE 11 OVERHEAD	ST1110	CT7110-B - CT7114-B
⟨19⟩	LE GRAND ROAD OVERHEAD	ST1114	CT7122-B - CT7128-B
⟨20⟩	SANDY MUSH RD OVERHEAD	ST1142	CT7119-B - CT7121-B
⟨21⟩	GRADE SEPARATION - SR 233	ST1141	CT7115-B - CT7118-B
⟨36⟩	GRADE SEPARATION - SR 233	ST1143	CT7129-B - CT7132-B
⟨67⟩	SR 99 SOUTHBOUND OVERHEAD	ST1181	-



VICINITY MAP 2



VICINITY MAP 1

VICINITY MAP 3

9000 0 9000 18000
GRAPHIC SCALE

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 B. DOLAN
CHECKED BY J. ZANDIAN
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPPR/SR 99 ALTERNATIVE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. SB1222
SCALE No scale
SHEET NO. OF

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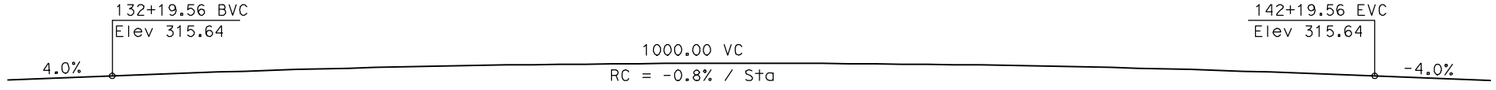
DolanR



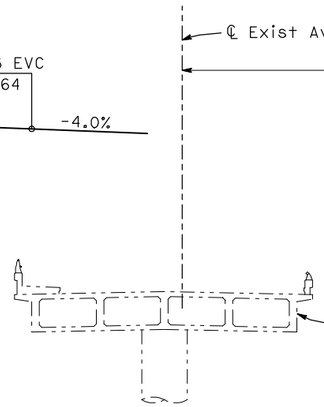
DATE OF ESTIMATE _____

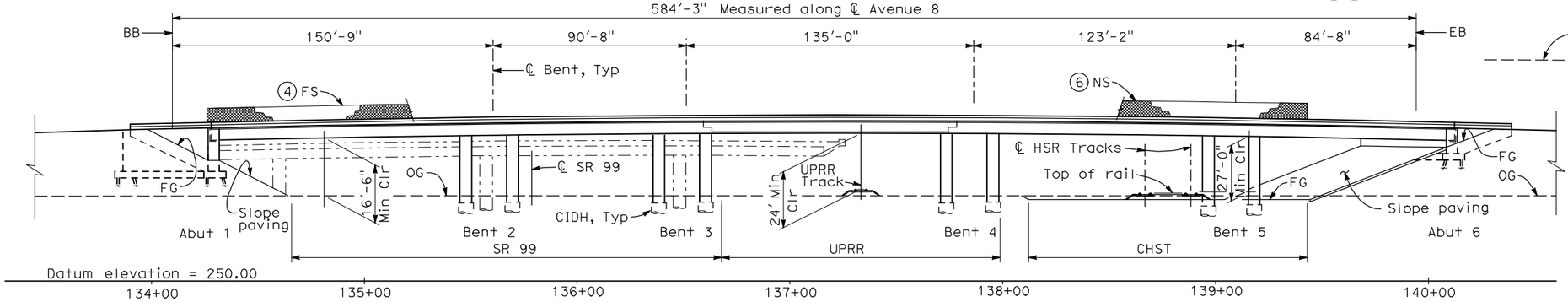
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	584'-3"
WIDTH	=	47'-6"
AREA	=	27,750 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

PROFILE GRADE
NTS

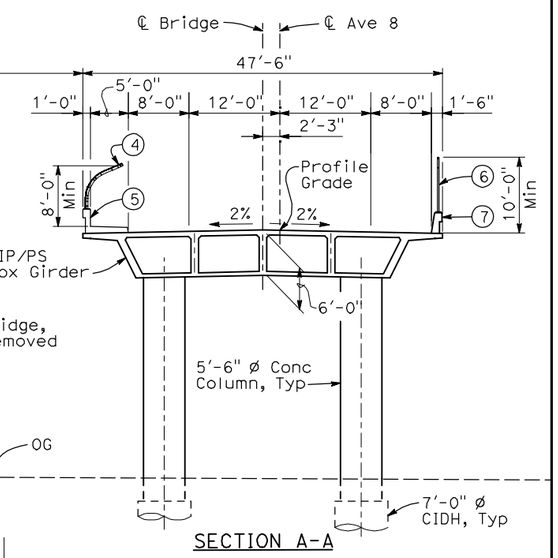
LEGEND:

- Direction of traffic
- Point of minimum vertical clearance
- Pt = Petroleum
- UG = Underground

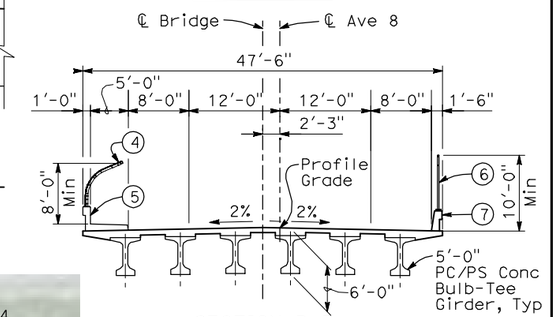




ELEVATION
1" = 30'-0"

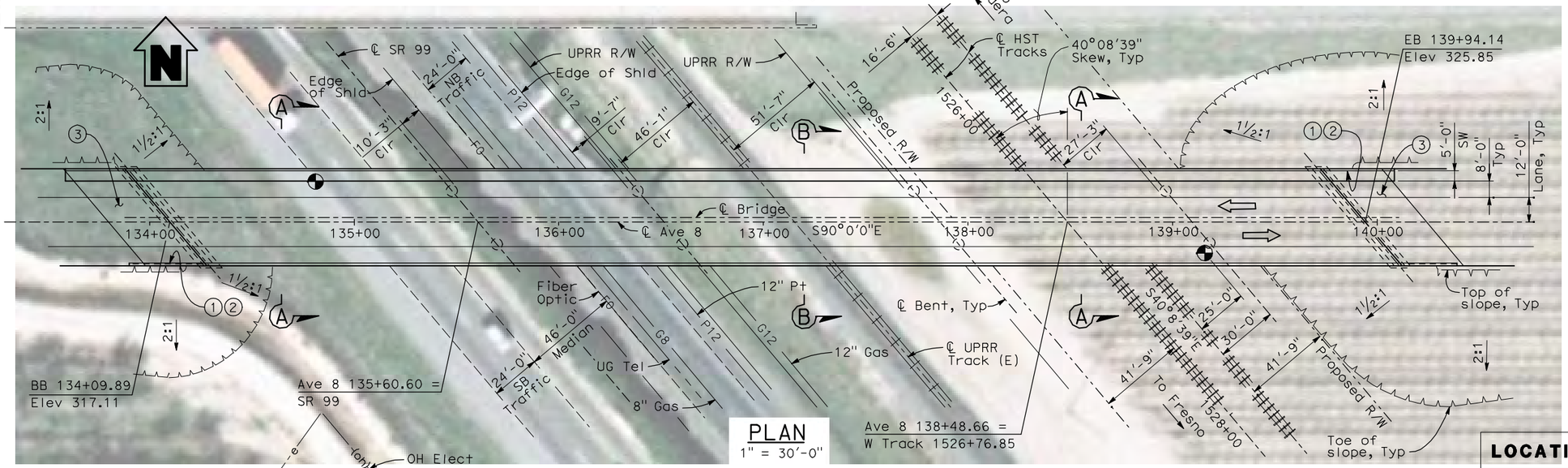


SECTION A-A



SECTION B-B

TYPICAL SECTIONS
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. 41-60"
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, SR 99 and UPRR track to be verified.
9. Existing underground and overhead utilities to be determined.
10. Location and elevation of existing UPRR track to be determined.

LOCATION 14

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 21
AVENUE 8 OVERHEAD - REPLACEMENT
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1107
SCALE As shown
SHEET NO. OF

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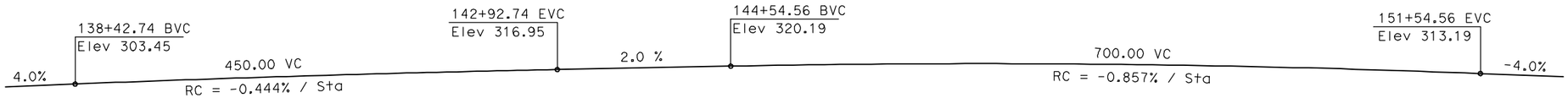
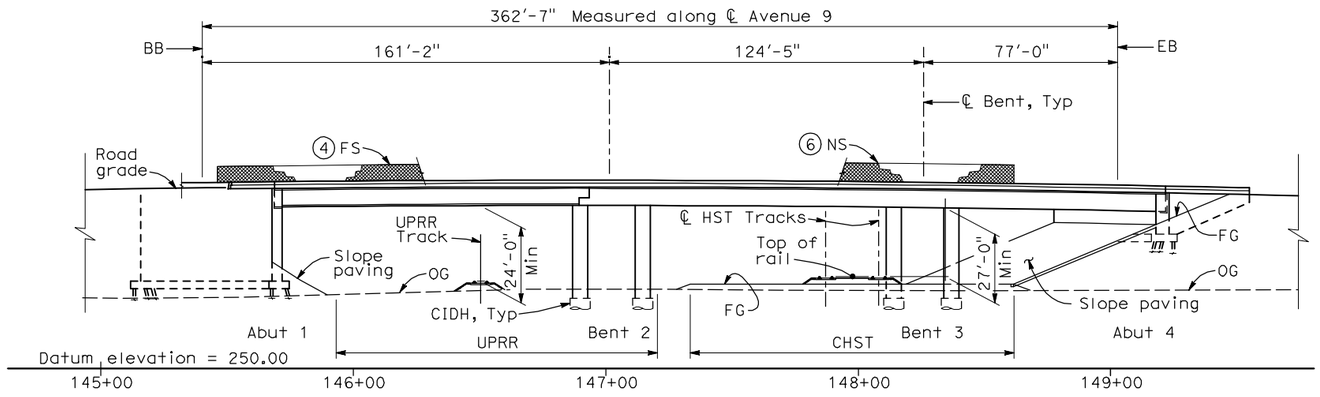
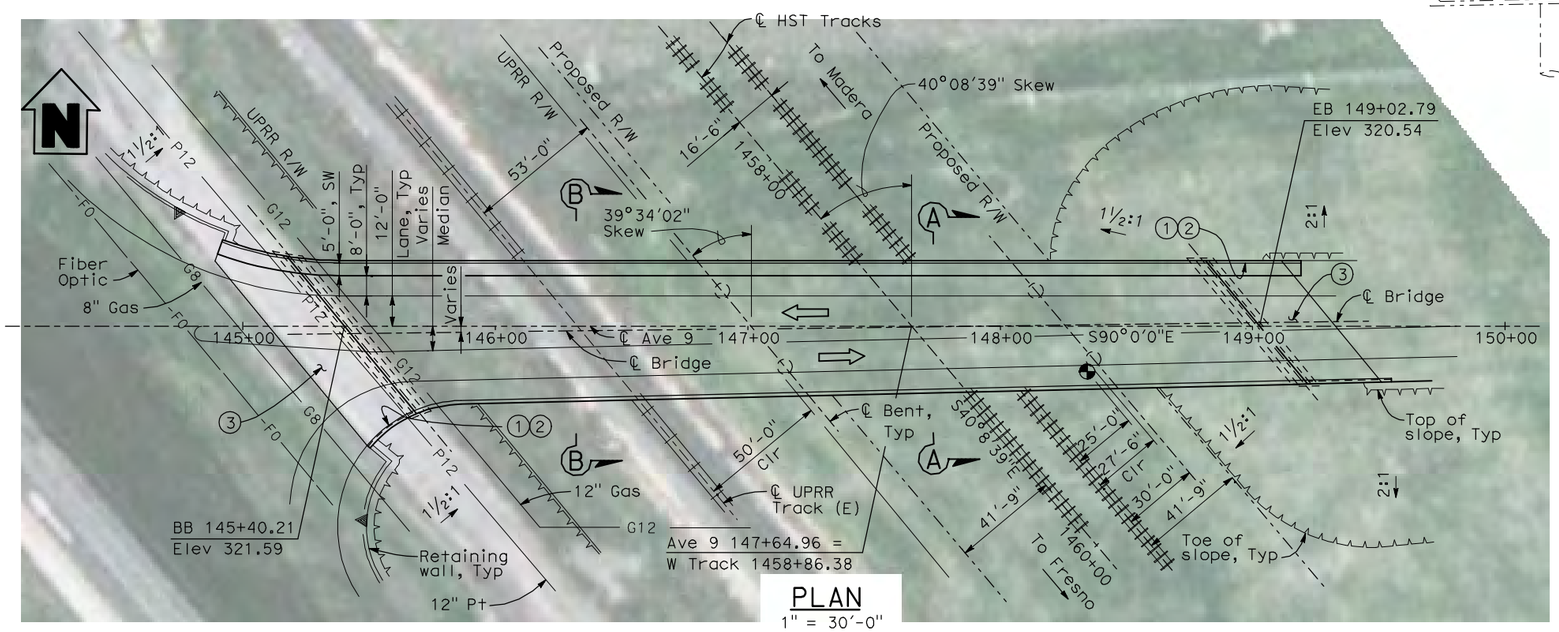
DolanR



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"

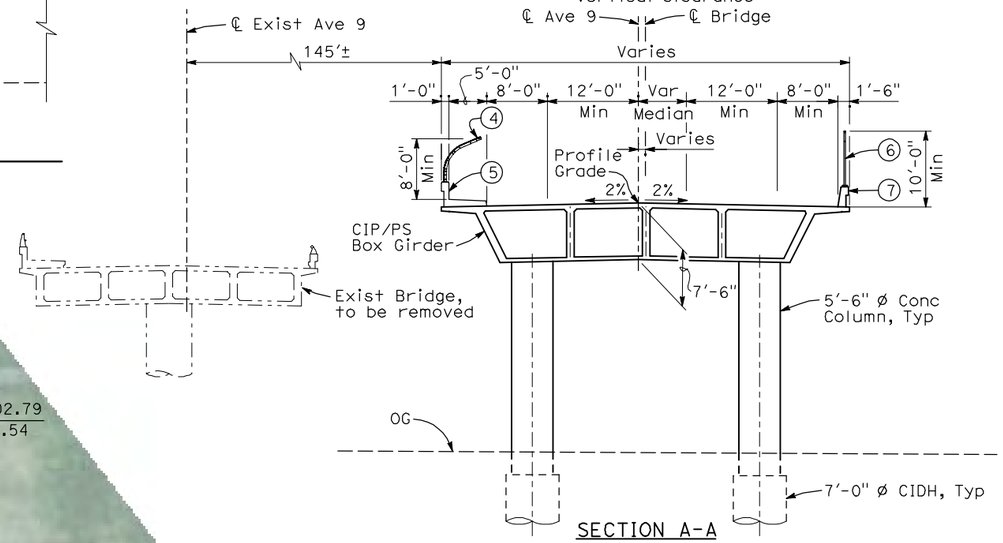


PLAN
1" = 30'-0"

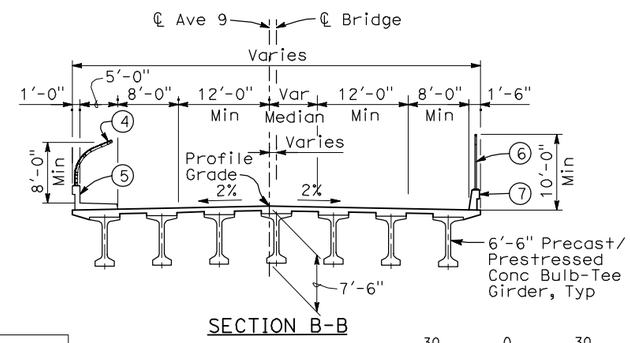
DATE OF ESTIMATE	
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 7'-6"
LENGTH	= 362'-7"
WIDTH	= 53'-3⅝" Avg
AREA	= 19,400 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=
TOTAL COST	=

NOTES:
1. Paint "Bridge No. _____"
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 UPRR track to be verified.
9. Existing underground and overhead utilities to be determined.
10. Location and elevation of existing UPRR track to be determined.

LEGEND/ABBREVIATIONS:
⇦ Direction of traffic
◐ Point of minimum vertical clearance
Pt = Petroleum
UG = Underground



SECTION A-A



SECTION B-B

LOCATION 15

TYPICAL SECTIONS
1" = 10'-0"

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 21
AVENUE 9 OVERHEAD - REPLACEMENT
PLANNING STUDY - BRIDGE AT UPRR

CONTRACT NO. HSR06-007
DRAWING NO. ST1108
SCALE As shown
SHEET NO. OF

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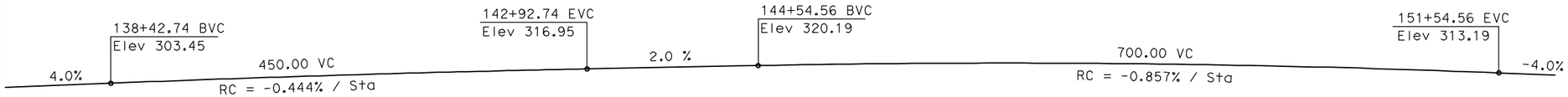
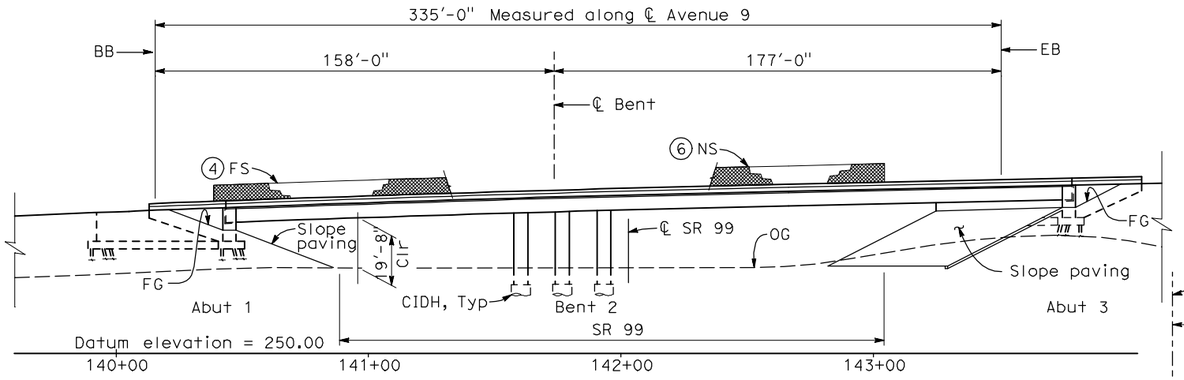
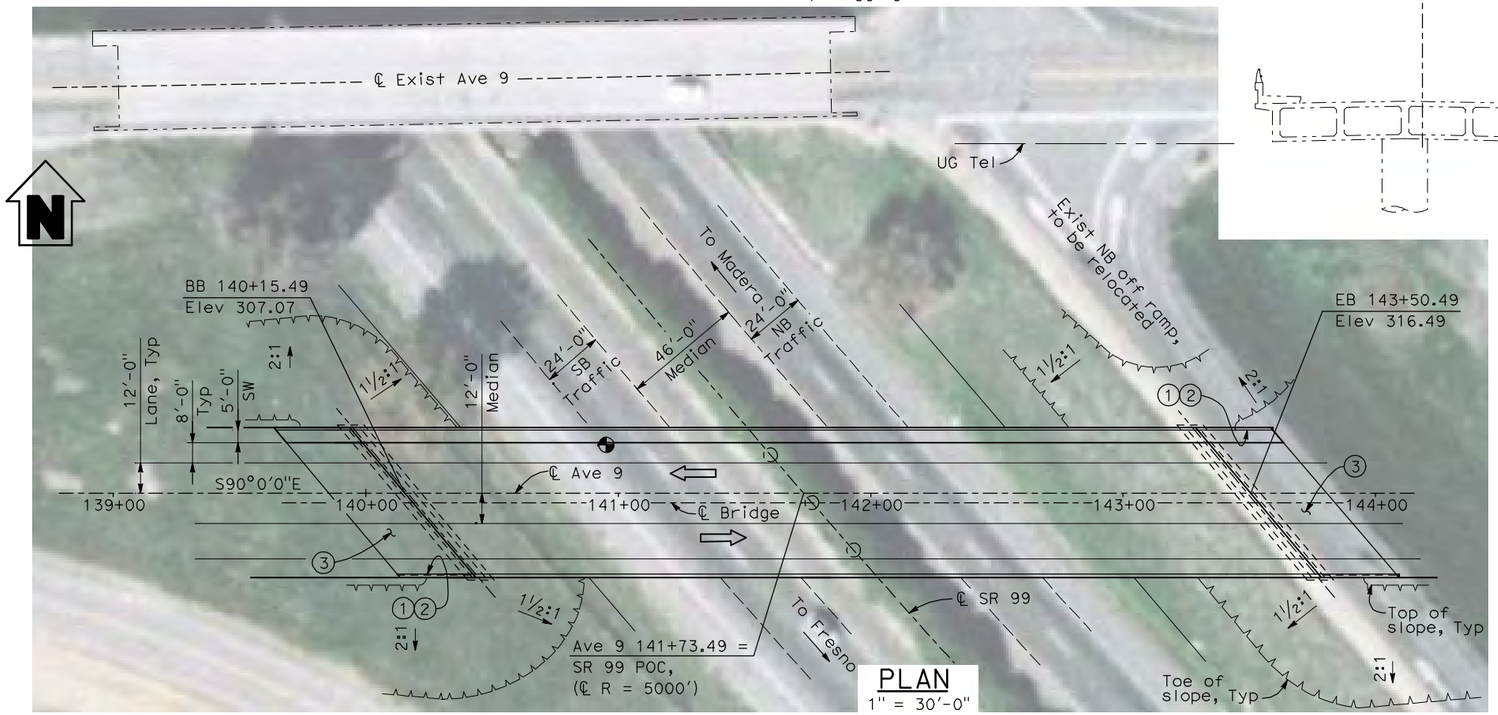
DolanR



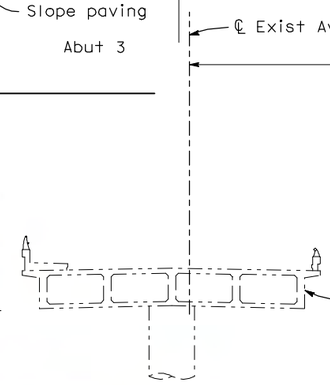
PROFILE GRADE
NTS

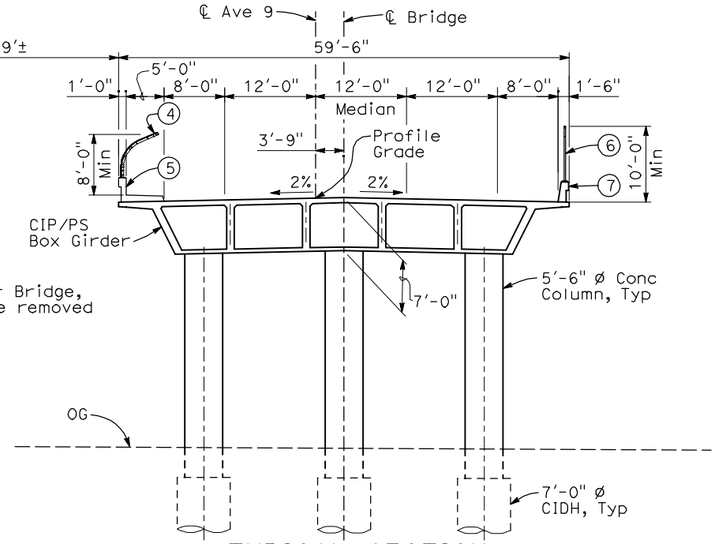


ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"





TYPICAL SECTION
1" = 10'-0"

NOTES:
1. Paint "Bridge No. _____"
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. Location of SR 99 to be verified.
9. Existing underground and overhead utilities to be determined.

LEGEND:
- ⇦ Direction of traffic
- Point of minimum vertical clearance
- UG = Underground

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	7'-0"
LENGTH	=	335'-0"
WIDTH	=	59'-6"
AREA	=	19,950 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 15

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 21
AVENUE 9 OVERCROSSING - REPLACEMENT
PLANNING STUDY - BRIDGE AT SR 99

CONTRACT NO. HSR06-007
DRAWING NO. ST1109
SCALE As shown
SHEET NO. OF

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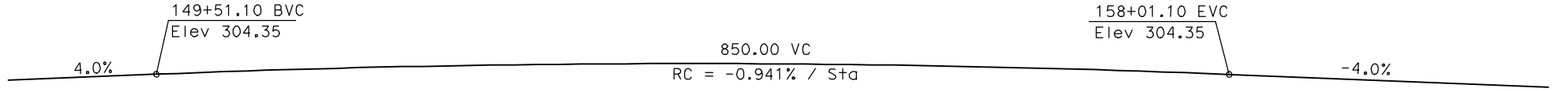


PROFILE GRADE
NTS

LEGEND:

⇦ Direction of traffic

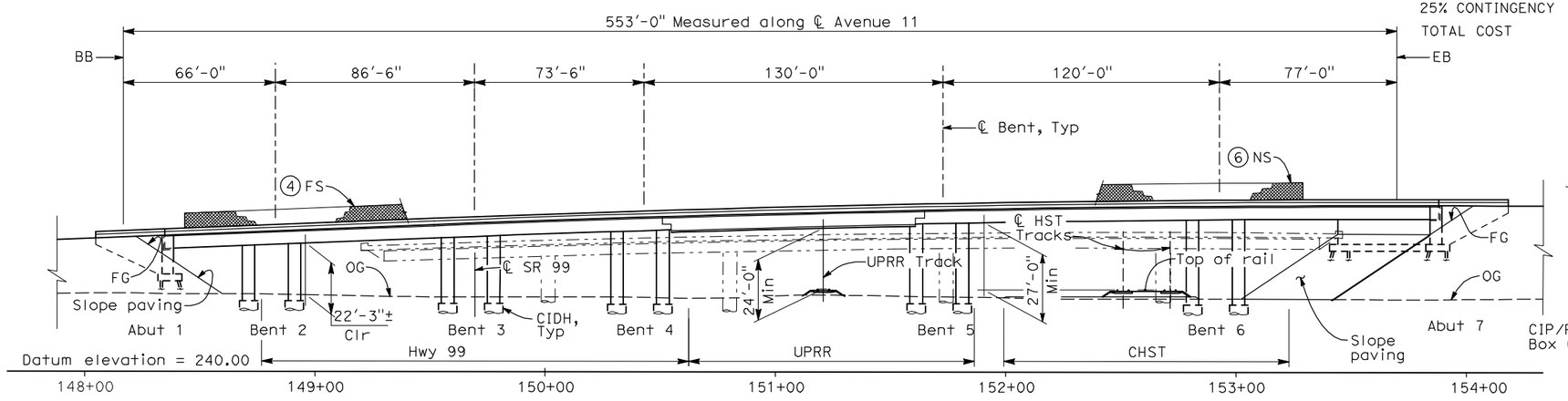
Point of minimum vertical clearance

Pt = Petroleum
UG = Underground

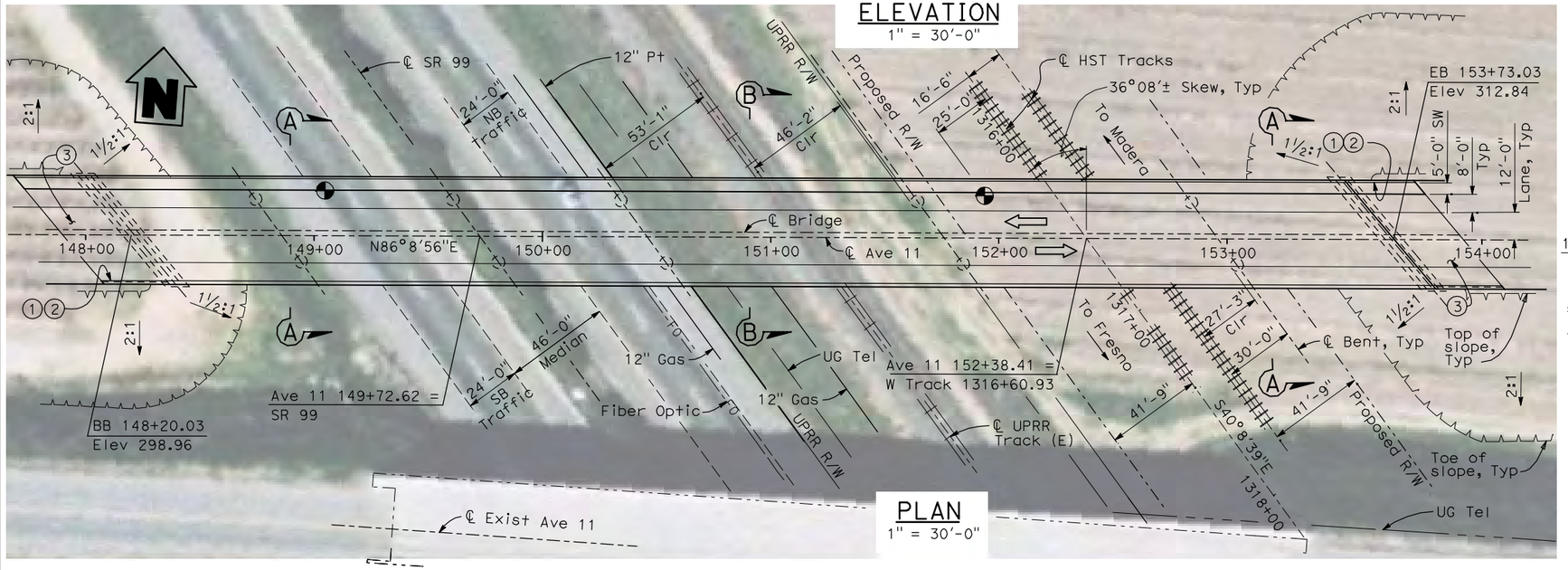
DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6′-0" and 7′-0"
LENGTH	=	553′-0"
WIDTH	=	47′-6"
AREA	=	26,300 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

NOTES:

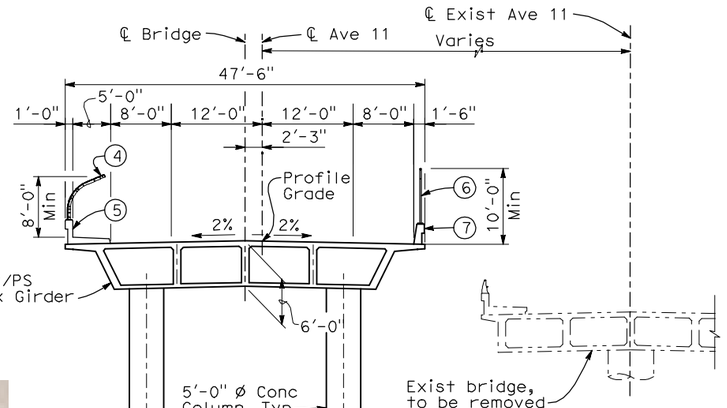
1. Paint "Bridge No. 41-61"
2. Paint "Avenue 11 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.
9. Location, bearing and elevation of existing UPRR track(s) to be determined.
10. Location of existing bridge to be verified.



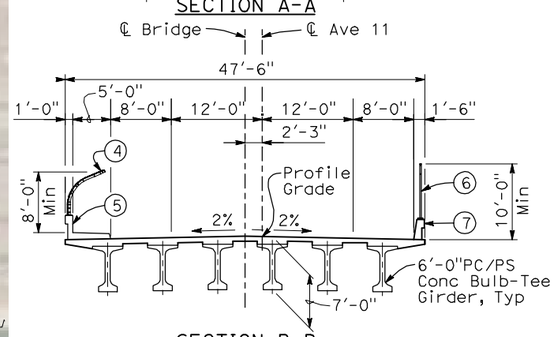
ELEVATION
1" = 30′-0"



PLAN
1" = 30′-0"



SECTION A-A



SECTION B-B

TYPICAL SECTIONS
1" = 10′-0"

30 0 30 60
1"=30′

LOCATION 16

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: H. LEE
DRAWN BY: B. DOLAN
CHECKED BY: T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 21
AVENUE 11 OVERHEAD - REPLACEMENT
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1110
SCALE As shown
SHEET NO. OF

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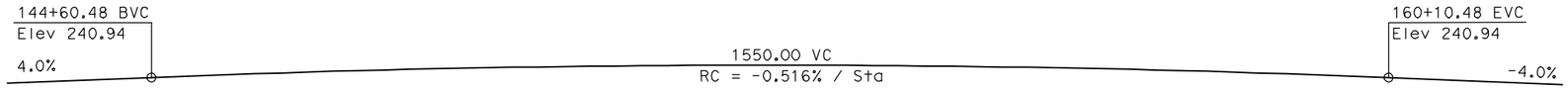
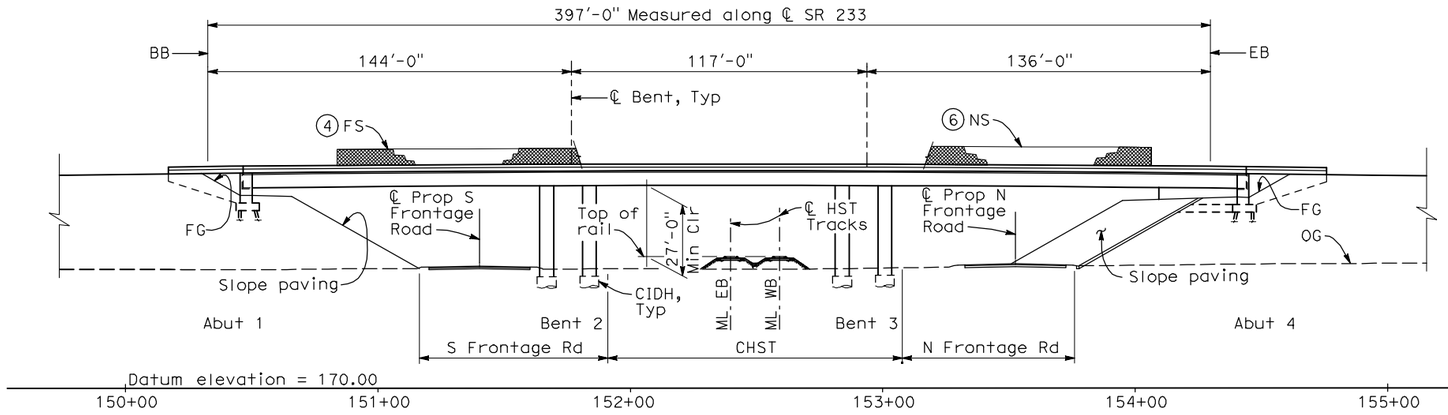
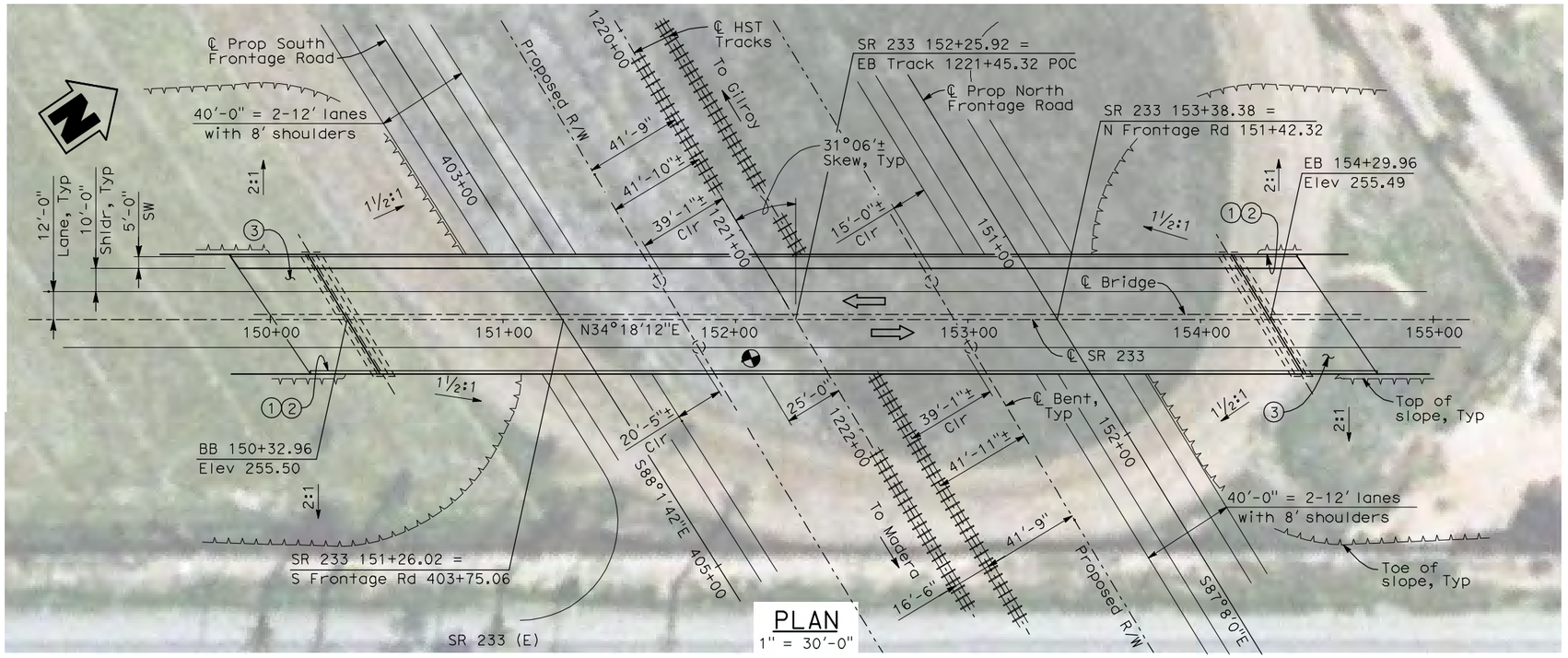
DolanR



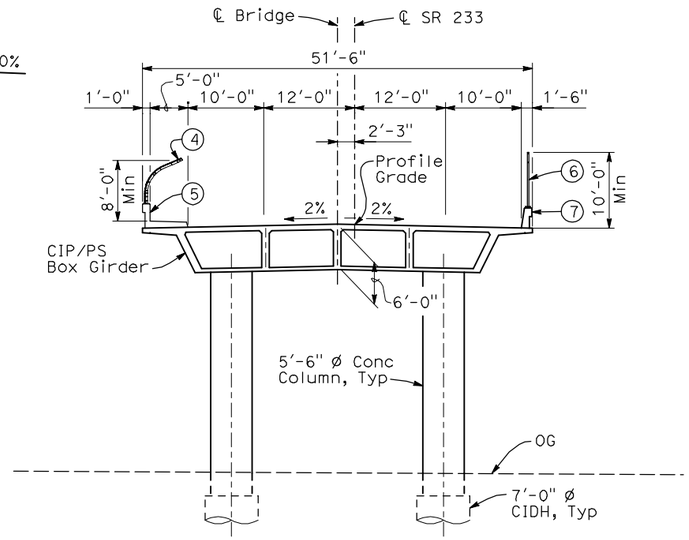
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "SR 233 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/ABBREVIATIONS:

⇦ Direction of traffic

Point of minimum vertical clearance

ML = Main Line

DATE OF ESTIMATE	
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 397'-0"
WIDTH	= 51'-6"
AREA	= 20,500 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=
TOTAL COST	=

LOCATION 21

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

15% SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

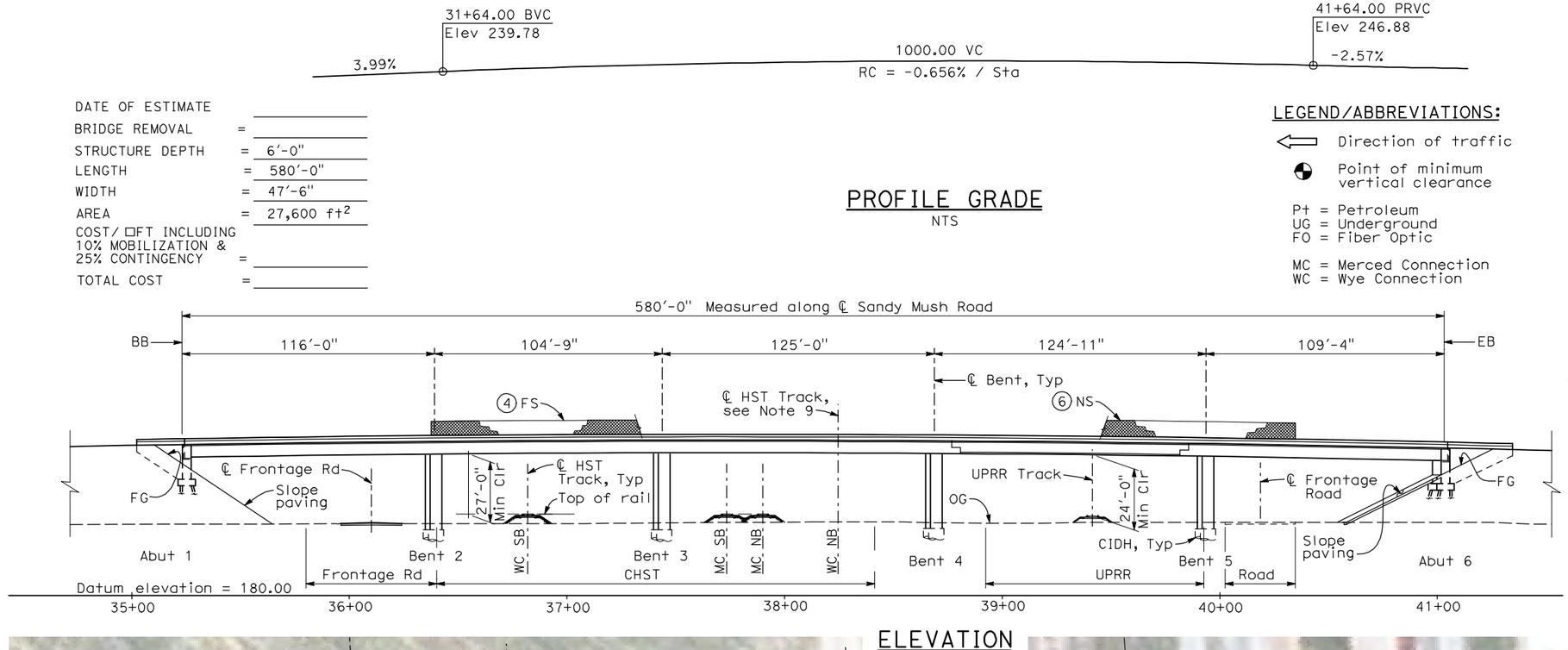
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
SR 233 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1141
SCALE As shown
SHEET NO. OF

5/1/2011 9:58:08 AM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\W-MF-ST-OH_SR 233-ML_Ave24-Loc 21.dgn
DolanR



PROFILE GRADE
NTS

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	580'-0"
WIDTH	=	47'-6"
AREA	=	27,600 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

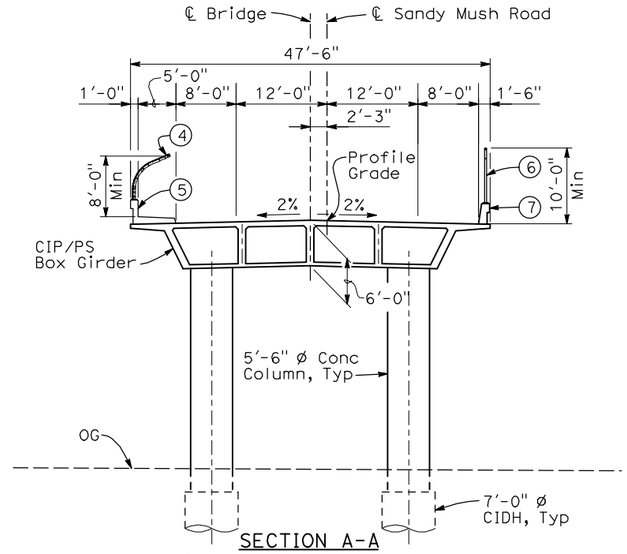
LEGEND/ABBREVIATIONS:

⇦ Direction of traffic

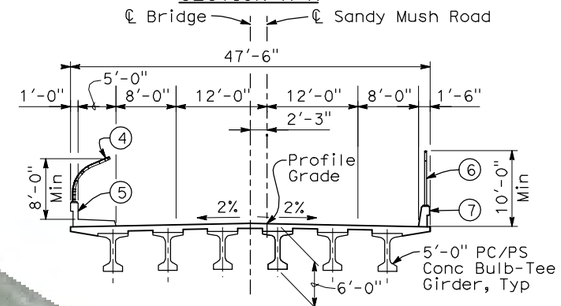
Point of minimum vertical clearance

Pt = Petroleum
UG = Underground
FO = Fiber Optic

MC = Merced Connection
WC = Wye Connection

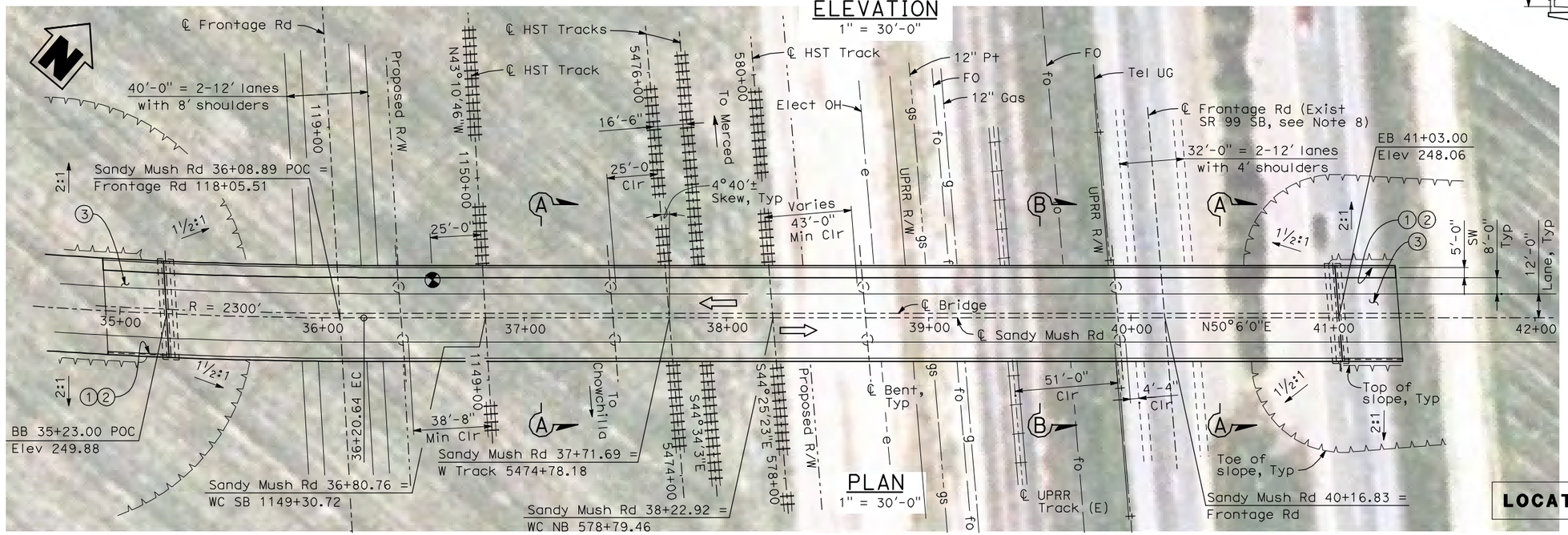


SECTION A-A



SECTION B-B

TYPICAL SECTIONS
1" = 10'-0"



ELEVATION
1" = 30'-0"

PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. WX-ZZ"
2. Paint "Sandy Mush 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. SR 99 will be relocated prior to or concurrent with this construction.
9. Top of rail for NB Wye Connection to be determined.
10. Existing underground and overhead utilities to be determined.
11. Bearing, location and elevation of existing UPRR track to be determined.

LOCATION 20

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED & WYE CONNECTIONS
AVENUE 24
SANDY MUSH ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1142
SCALE As shown
SHEET NO. OF

I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\W-MF-ST-OH_Sandy Mush24-Loc 20.dgn
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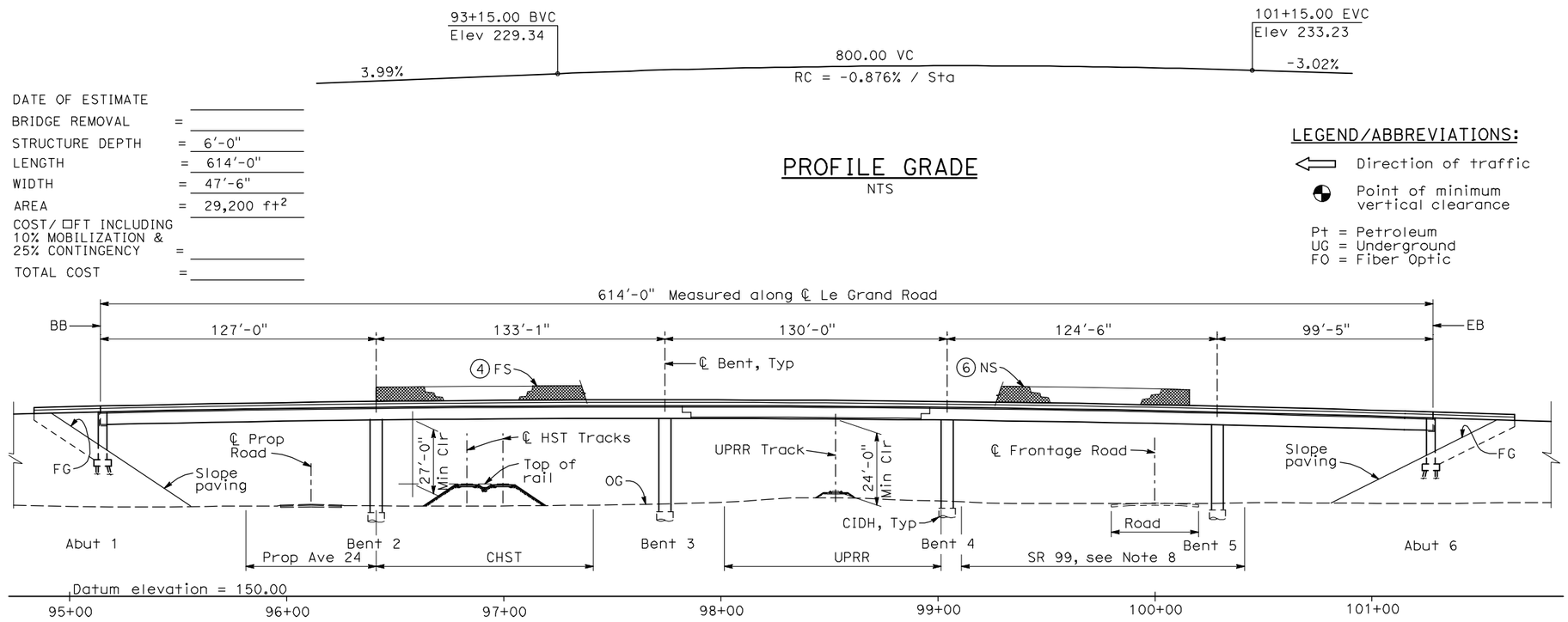
DolanR



PROFILE GRADE
NTS

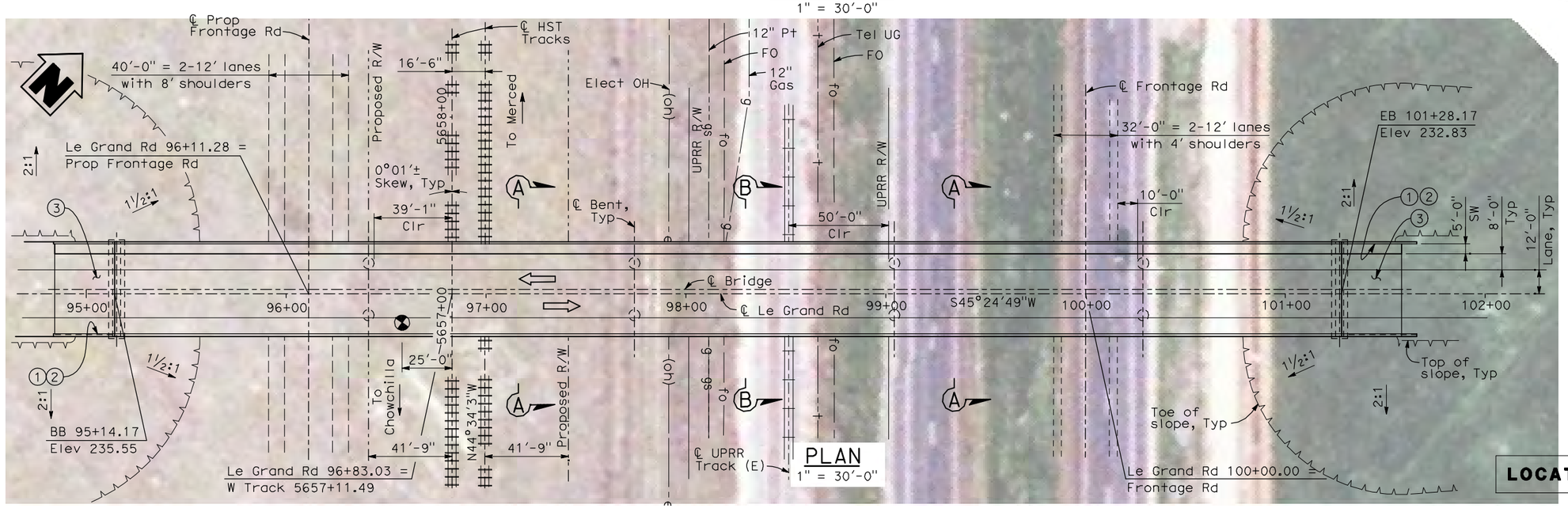
DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	614'-0"
WIDTH	=	47'-6"
AREA	=	29,200 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LEGEND/ABBREVIATIONS:

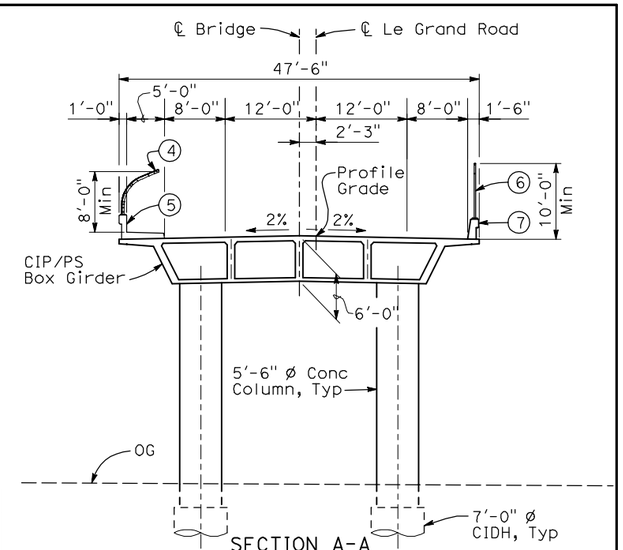
- Direction of traffic
- Point of minimum vertical clearance

Pt = Petroleum
UG = Underground
FO = Fiber Optic

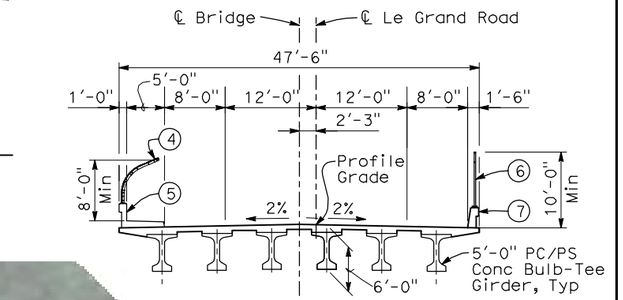
ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



SECTION A-A



SECTION B-B

TYPICAL SECTIONS
1" = 10'-0"

NOTES:

1. Paint "Bridge No. WX-YY"
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. SR 99 will be relocated prior to or concurrent with this construction.
9. Bearing of Le Grand Road and UPRR track to be verified.
10. Existing underground and overhead utilities to be determined.
11. Location and elevation of existing UPRR track to be determined.

LOCATION 19

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

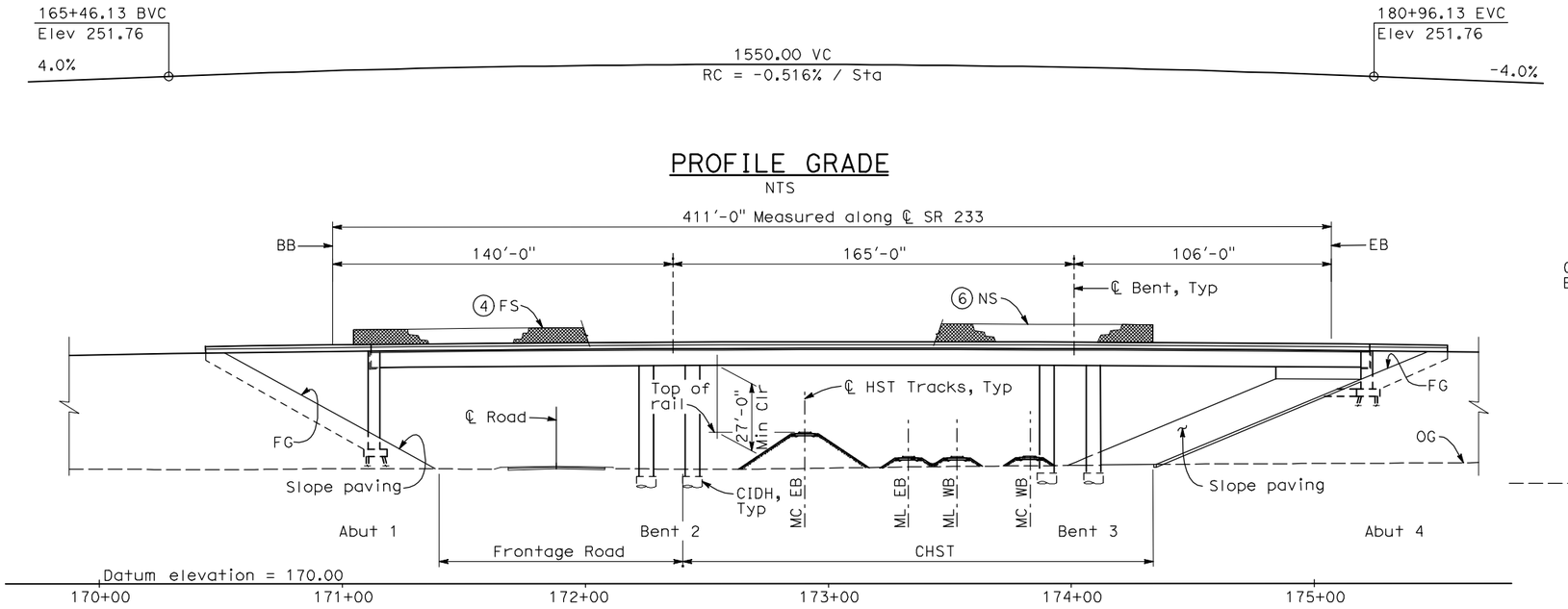
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
LE GRAND ROAD OVERHEAD
PLANNING STUDY

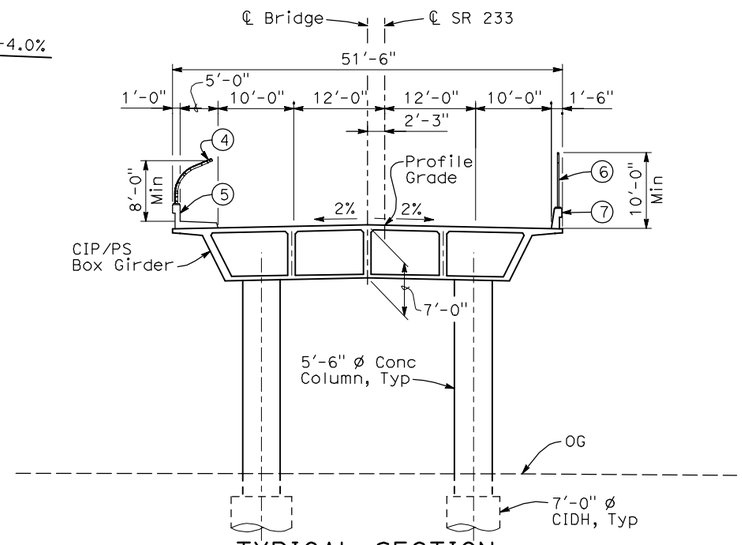
CONTRACT NO. HSR06-007
DRAWING NO. ST1114
SCALE As shown
SHEET NO. OF

5/1/2011 9:59:27 AM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\WF-ST-OH_Le Grand Road-Loc 19.dgn
DolanR

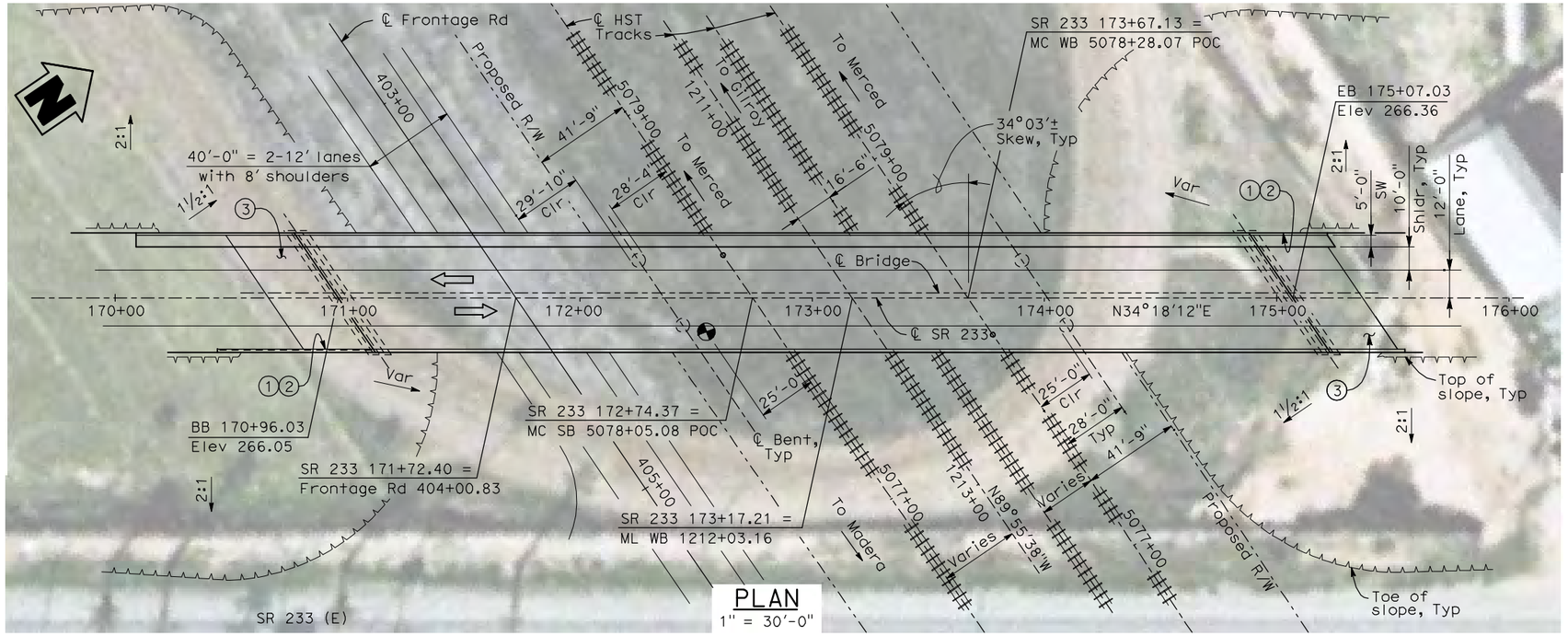


PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "SR 233 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/ABBREVIATIONS:

⇦ Direction of traffic

Point of minimum vertical clearance

MC = Merced Connection
ML = Main Line

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	7'-0"
LENGTH	=	411'-0"
WIDTH	=	51'-6"
AREA	=	21,200 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 36

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: H. LEE
DRAWN BY: B. DOLAN
CHECKED BY: T. BARNARD
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

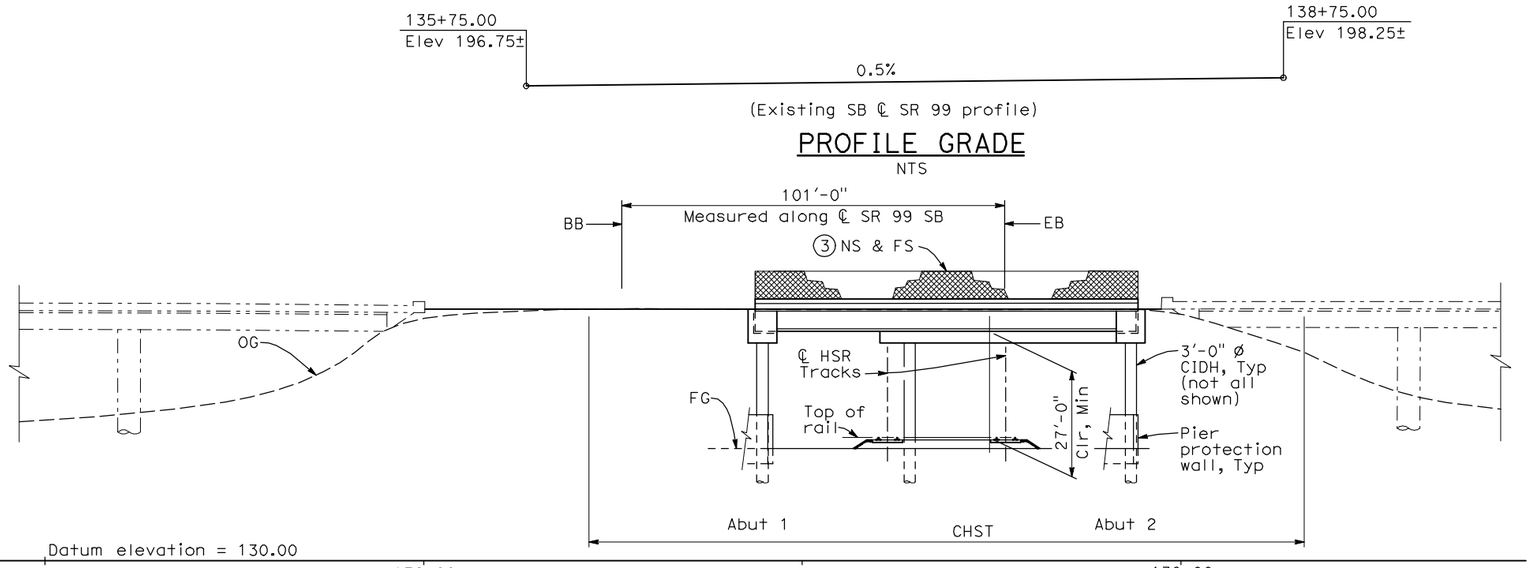
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

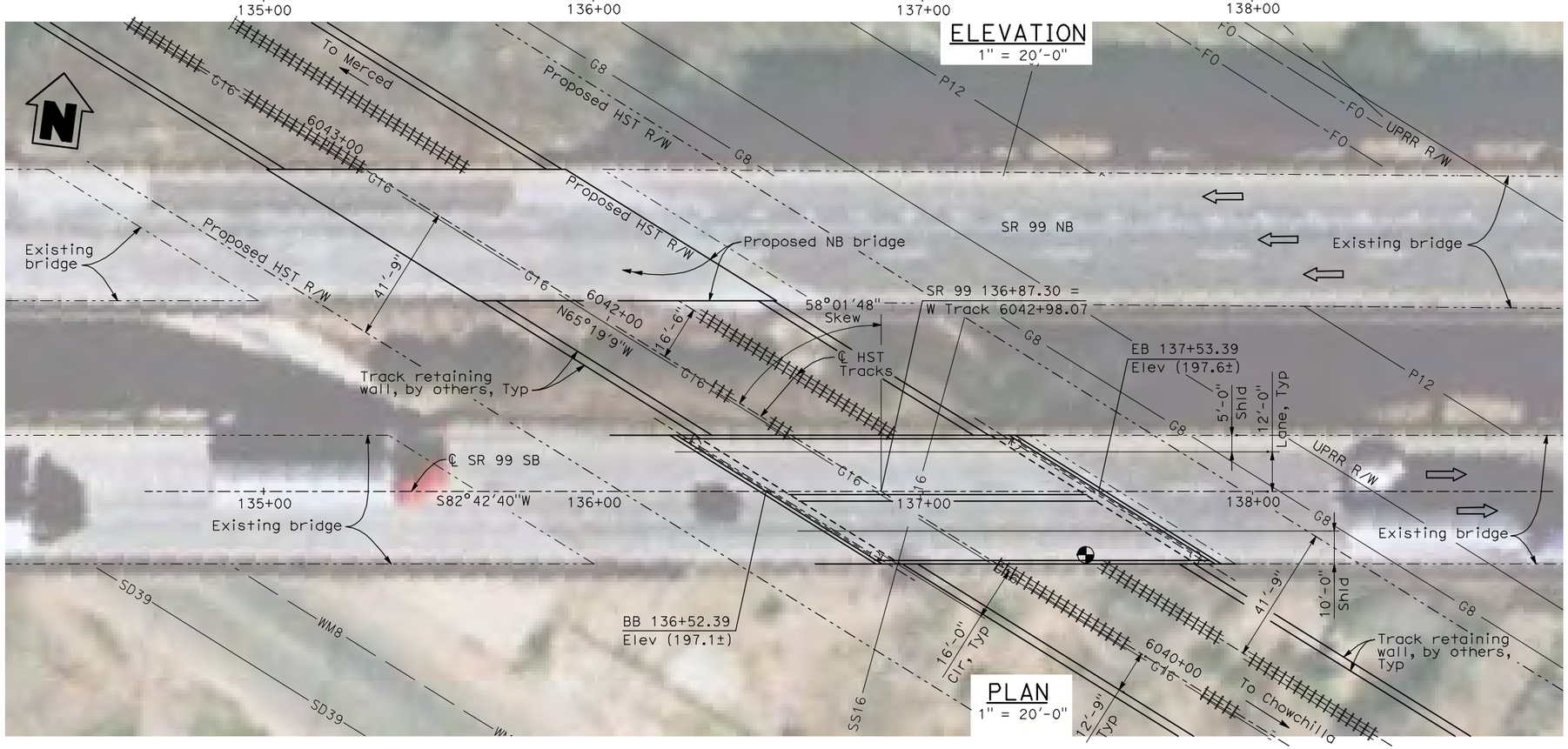
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

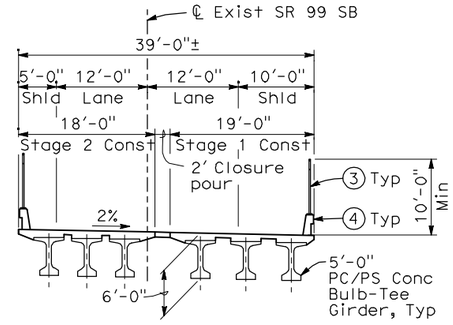
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE/W CHOWCHILLA AVENUE 24
SR 233 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1143
SCALE As shown
SHEET NO. OF

5/1/2011 10:07:15 AM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\W-MF-ST-OH_SR 233ML_WChow_Ave24-Loc 36.dgn
DolanR







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 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 67

20 0 20 40
1"=20'

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
CH2MHILL

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

5/1/2011 10:07:51 AM I:\CHSR\60022962\Task-02_Merced-Fresno\cadd\Struct\Sheet\APS\A2\15% cost reduction submittal\Grade Structure\W-MF-ST-OH_SR 99-Loc67.dgn
DolanR

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
				GENERAL		
		B9090-B	UPRR/SR99 - (AVE 24)	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 2
		B9091-B	UPRR/SR99 - (AVE 24)	GENERAL	INDEX OF DRAWINGS	SHEET 2 OF 2
		B9092-B	UPRR/SR99 - (AVE 24/WC)	GENERAL	ABBREVIATIONS, SYMBOLS AND NOTES	SHEET 1 OF 1
		B9100-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 1 OF 5
		B9101-B	UPRR/SR99 - (WC)		INDEX MAP	SHEET 2 OF 5
		B9102-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 3 OF 5
		B9103-B	UPRR/SR99 - (AVE 24)		INDEX MAP	SHEET 4 OF 5
		B9104-B	UPRR/SR99 - (WC)		INDEX MAP	SHEET 5 OF 5
		CB9100-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	LOCAL & FRONTAGE ROAD	KEY MAP	SHEET 1 OF 6
		CB9101-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	LOCAL & FRONTAGE ROAD	KEY MAP	SHEET 2 OF 6
		CB9102-B	UPRR/SR99 MAINLINE/WYE/MERCED - (AVE 24)	LOCAL & FRONTAGE ROAD	KEY MAP	SHEET 3 OF 6
		CB9103-B	UPRR/SR99 WYE/MERCED - (AVE 24)	LOCAL & FRONTAGE ROAD	KEY MAP	SHEET 4 OF 6
		CB9104-B	UPRR/SR99 MERCED - (AVE 24/WC)	LOCAL & FRONTAGE ROAD	KEY MAP	SHEET 5 OF 6
		CB9105-B	UPRR/SR99 MAINLINE/WYE/MERCED DO - (WC)	LOCAL & FRONTAGE ROAD	KEY MAP	SHEET 6 OF 6
		CR9090-B	UPRR/SR99 - (AVE 24/WC)	LOCAL ROADS	TYPICAL CROSS SECTIONS	SHEET 1 OF 2
		CR9091-B	UPRR/SR99 - (AVE 24/WC)	LOCAL ROADS	TYPICAL CROSS SECTIONS	SHEET 2 OF 2
		CR9092-B	UPRR/SR99 - (AVE 24/WC)		GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN	SHEET 1 OF 1
				LAYOUT		
40		CR9100-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	ROAD 33	LAYOUT	STA 13+21 TO STA 58+86
41		CR9101-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	REALIGNED ROAD	LAYOUT	STA 10+00 TO STA 45+94
42		CR9102-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9	LAYOUT	STA 100+00 TO STA 130+35.68
43		CR9103-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	ROAD 31 1/2	LAYOUT	SHEET 1 OF 4
43		CR9104-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	ROAD 31 1/2	LAYOUT	SHEET 2 OF 4
44		CR9105-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	ROAD 30 1/2 & ROAD 31 1/2	LAYOUT	SHEET 3 OF 4
44		CR9106-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	ROAD 30 1/2	LAYOUT	SHEET 4 OF 4
45		CR9107-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	ROAD 30 AT AVENUE 11	LAYOUT	SHEET 1 OF 2
45		CR9108-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	ACCESS ROAD AT AVENUE 11	LAYOUT	SHEET 2 OF 2
46		CR9109-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	S KNOX ST	LAYOUT	STA 10+00 TO STA 34+67
47		CR9110-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	N E ST AND S E ST	LAYOUT	SHEET 1 OF 2
48		CR9111-B	UPRR/SR99 MAINLINE - (AVE 24/WC)	SHARON BLVD & E ST	LAYOUT	SHEET 2 OF 2
52		CR9112-B	UPRR/SR99 MERCED - (AVE 24)	FAIRMEAD BLVD	LAYOUT	SHEET 1 OF 5
52		CR9113-B	UPRR/SR99 MERCED - (AVE 24)	FAIRMEAD BLVD	LAYOUT	SHEET 2 OF 5
52		CR9114-B	UPRR/SR99 MERCED - (AVE 24)	FAIRMEAD BLVD	LAYOUT	SHEET 3 OF 5
52		CR9115-B	UPRR/SR99 MERCED - (AVE 24)	FAIRMEAD BLVD	LAYOUT	SHEET 4 OF 5
52		CR9116-B	UPRR/SR99 MERCED - (AVE 24)	FAIRMEAD BLVD	LAYOUT	SHEET 5 OF 5
65		CR9117-B	UPRR/SR99 MERCED - (AVE 24)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 18+22 TO STA 54+00
65		CR9118-B	UPRR/SR99 WYE/MERCED - (AVE 24)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 54+00 TO STA 77+51.01
66		CR9119-B	UPRR/SR99 WYE/MERCED - (AVE 24)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 205+00 TO STA 115+00
66		CR9120-B	UPRR/SR99 WYE/MERCED - (AVE 24)	PROPOSED FRONTAGE ROAD	LAYOUT	STA 115+00 TO STA 145+00
66		CR9121-B	UPRR/SR99 MERCED - (AVE 24)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 145+00 TO STA 191+27.40
66		CR9122-B	UPRR/SR99 MERCED - (AVE 24/WC)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 191+27.40 TO STA 251+00
66		CR9123-B	UPRR/SR99 MERCED - (AVE 24/WC)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 251+00 TO STA 311+00
66		CR9124-B	UPRR/SR99 MERCED - (AVE24/WC)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 311+00 TO STA 369+00
66		CR9125-B	UPRR/SR99 MERCED - (AVE24/WC)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 369+00 TO STA 404+20.27
75		CR9126-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - WEST FRONTAGE ROAD	LAYOUT	
75		CR9127-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - WEST FRONTAGE ROAD	LAYOUT	
76		CR9128-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - WEST FRONTAGE ROAD	LAYOUT	STA 130+00 TO STA 181+00
76		CR9129-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - WEST FRONTAGE ROAD	LAYOUT	STA 181+00 TO STA 191+27.40
67		CR9130-B	UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)	SOUTH FRONTAGE ROAD	LAYOUT	
67		CR9131-B	UPRR/SR99 MAINLINE/WYE - (AVE 24)	SOUTH FRONTAGE ROAD	LAYOUT	STA 120+00 TO 135+00
67		CR9132-B	UPRR/SR99 WYE - (AVE 24)	SOUTH FRONTAGE ROAD AVENUE 24	LAYOUT	STA 135+00 TO STA 161+86.44
67		CR9133-B	UPRR/SR99 MAINLINE - (AVE 24)	SOUTH FRONTAGE ROAD	LAYOUT	
67		CR9134-B	UPRR/SR99 MAINLINE - (AVE 24)	SOUTH FRONTAGE ROAD AVENUE 24	LAYOUT	
67		CR9135-B	UPRR/SR99 MAINLINE - (AVE 24)	NORTH & SOUTH FRONTAGE ROAD	LAYOUT	STA 332+76.37 TO STA 369+00
68		CR9136-B	UPRR/SR99 MAINLINE - (AVE 24)	NORTH & SOUTH FRONTAGE ROAD	LAYOUT	STA 369+00 TO 416+00 & 130+00 TO 162+63.49
68		CR9137-B	UPRR/SR99 MAINLINE - (AVE 24)	NORTH & SOUTH FRONTAGE ROAD	LAYOUT	STA 162+63.49 TO 192+72.18 & STA 416 TO 440
68		CR9138-B	UPRR/SR99 MAINLINE - (AVE 24)	NORTH & SOUTH FRONTAGE ROAD	LAYOUT	STA 192+72.18 TO 224+34.28
69		CR9139-B	UPRR/SR99 MAINLINE - (AVE 24)	NORTH FRONTAGE ROAD & ROAD 16 1/2	LAYOUT	
69		CR9140-B	UPRR/SR99 MAINLINE - (AVE 24)	SOUTH FRONTAGE ROAD & ROAD 16 1/2	LAYOUT	STA 112+99.41 TO STA 132+00
69		CR9141-B	UPRR/SR99 MAINLINE - (AVE 24)	NORTH & SOUTH FRONTAGE ROAD AVENUE 24	LAYOUT	STA 132+00 TO 138+79.29
69		CR9142-B	UPRR/SR99 MAINLINE - (AVE 24)	NORTH & SOUTH FRONTAGE ROAD AVENUE 24	LAYOUT	
70		CR9143-B	UPRR/SR99 WYE - (AVE 24)	ROAD 12	LAYOUT	STA 145+00 TO STA 205+00
71		CR9144-B	UPRR/SR99 WYE - (AVE 24)	AVENUE 24 1/2	LAYOUT	
71		CR9145-B	UPRR/SR99 WYE - (AVE 24)	ROAD 12 1/4 & AVENUE 24 1/2	LAYOUT	STA 110+00 TO STA 126+00
71		CR9146-B	UPRR/SR99 WYE - (AVE 24)	ROAD 12 1/4	LAYOUT	STA 126+00 TO STA 135+00
72		CR9147-B	UPRR/SR99 WYE - (AVE 24)	ROAD 12 1/2	LAYOUT	STA 140+00 TO STA 200+00
72		CR9148-B	UPRR/SR99 WYE - (AVE 24)	ROAD 12 1/2 & AVENUE 26 1/2	LAYOUT	STA 200+00 TO STA 133+00
72		CR9149-B	UPRR/SR99 WYE - (AVE 24)	AVENUE 26 1/2	LAYOUT	STA 133+00 TO STA 147+05.87
77		CR9150-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - ROAD 11	LAYOUT	
77		CR9151-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - ROAD 11	LAYOUT	

REV	DATE	BY	CHK	APP	DESCRIPTION

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CHECKED BY A. SILVER
IN CHARGE A. BOONE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 - (AVE 24)
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B9090-B
SCALE NONE
SHEET NO. ### OF ###

USER=ReyesC1 4/2/2012 3:18:11 PM \\usstc2fp001\projects\60022962\Task-03_Merced-Fresno\cadd\Civil\Design\SANTA CLARA\delosreyesc\15% ROADWAY REVISIONS\VOL III FINAL SUBMITTAL\ROADWAY\SHEET\Package 2

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
76		CR9152-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - SANDY MUSH ROAD	LAYOUT	STA 30+00 TO STA 33+00
77		CR9153-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - CROSS ROAD	LAYOUT	STA 120+00 TO STA 140+00
80		CR9154-B	UPRR/SR99 MAINLINE/WYE DO - (WC)	LOCAL ROAD - AVENUE 24 1/2	LAYOUT	
80		CR9155-B	UPRR/SR99 WYE DO - (WC)	LOCAL ROAD - AVENUE 24 1/2	LAYOUT	
81		CR9156-B	UPRR/SR99 MAINLINE/WYE DO - (WC)	LOCAL ROAD - ROAD 12	LAYOUT	STA 50+00 TO 95+58.26 & STA 71+00 TO 81+00
82		CR9157-B	UPRR/SR99 MERCED DO - (WC)	LOCAL ROAD - ROAD 12 1/2 & AVENUE 24 3/4	LAYOUT	STA 81+00 TO STA 96+00
82		CR9158-B	UPRR/SR99 MERCED/WYE DO - (WC)	LOCAL ROAD - AVENUE 24 3/4	LAYOUT	STA 96+00 TO STA 109+18.38
78		CR9159-B	UPRR/SR99 MAINLINE/WYE DO - (WC)	SOUTH FRONTAGE ROAD	LAYOUT	STA 120+00 TO 135+00
78		CR9160-B	UPRR/SR99 MAINLINE/WYE DO - (WC)	AVENUE 24	LAYOUT	STA 135+00 TO STA 161+86.44
79		CR9161-B	UPRR/SR99 MAINLINE - (WC)	SOUTH FRONTAGE ROAD	LAYOUT	
79		CR9162-B	UPRR/SR99 MAINLINE - (WC)	SOUTH FRONTAGE ROAD	LAYOUT	
79		CR9163-B	UPRR/SR99 MAINLINE - (WC)	SOUTH FRONTAGE ROAD	LAYOUT	STA 333+00 TO STA 374+00
79		CR9164-B	UPRR/SR99 MAINLINE DO/MERCED DO - (WC)	LOCAL ROAD - FRONTAGE ROAD	LAYOUT	STA 374+00 TO STA 434+00
79		CR9165-B	UPRR/SR99 MAINLINE DO - (WC)	LOCAL ROAD - FRONTAGE ROAD & AVENUE 24	LAYOUT	STA 434+00 TO STA 440+00
79		CR9166-B	UPRR/SR99 MAINLINE DO - (WC)	LOCAL ROAD - FRONTAGE ROAD	LAYOUT	
52		CR9167-B	UPRR/SR99 MERCED - (WC)	FAIRMEAD BLVD	LAYOUT	SHEET 1 OF 5
52		CR9168-B	UPRR/SR99 MERCED - (WC)	FAIRMEAD BLVD	LAYOUT	SHEET 2 OF 5
52		CR9169-B	UPRR/SR99 MERCED - (WC)	FAIRMEAD BLVD	LAYOUT	SHEET 3 OF 5
52		CR9170-B	UPRR/SR99 MERCED - (WC)	FAIRMEAD BLVD	LAYOUT	SHEET 4 OF 5
52		CR9171-B	UPRR/SR99 MERCED - (WC)	FAIRMEAD BLVD	LAYOUT	SHEET 5 OF 5
85		CR9176-B	UPRR/SR99 MERCED - (AVE 24/WC)	HEALY ROAD	LAYOUT	
86		CR9177-B	UPRR/SR99 MERCED - (AVE 24/WC)	GERARD AVENUE/CALTRANS FRONTAGE ROAD	LAYOUT	

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 - (AVE 24)
GENERAL
INDEX OF DRAWINGS
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B9091-B
SCALE NONE
SHEET NO. ### OF ###

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ABBREVIATIONS

ALIGNMENT

HORIZONTAL

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

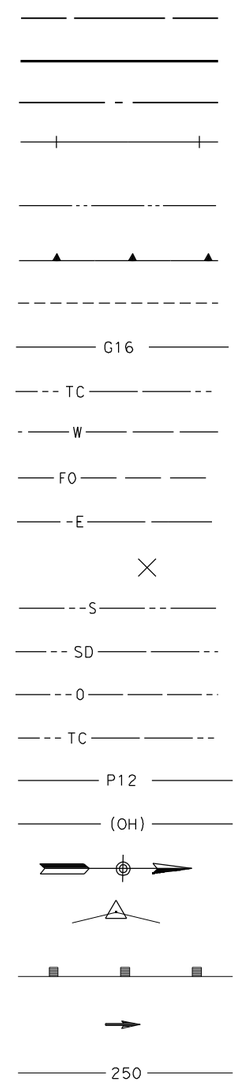
VERTICAL

BVC	BEGIN OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
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

ALT	ALTERNATIVE
AVE	AVENUE
BB	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
℄	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EB	END BRIDGE
ELEV	ELEVATION
EQ	EQUATION
ES	EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	EXISTING
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT
HST	HIGH SPEED TRAIN
HWY	HIGHWAY
IC	INTERCHANGE
IN	INCH
L	LENGTH
LT	LEFT
MBGR	METAL BEAM GUARD RAIL
ML	MAINLINE
MPH	MILES PER HOUR
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
No, NO	NUMBER
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL, FG	PROFILE GRADE LINE
RET	RETAINING
RR	RAILROAD
RD	ROAD
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTH BOUND
SHLD	SHOULDER
SR	STATE ROUTE
SHT	SHEET
SS	SANITARY SEWER
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
STD	STANDARD
SD	STORM DRAIN
STRUCT, STR	STRUCTURE
T	TANGENT
TEL	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER OPTIC
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS



MATCH LINE

HST TRACK

PROPOSED HST RIGHT-OF-WAY

FREIGHT/PASSENGER TRACK - EXISTING

EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES

RETAINING WALLS

ORIGINAL GROUND

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

NORTH ARRROW

PVI

MBGR

DIRECTION OF TRAVEL

250 PROPOSED CONTOUR

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24/WC)
GENERAL
ABBREVIATIONS, SYMBOLS AND NOTES
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. B9092-B
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SHEET NO. ### OF ###

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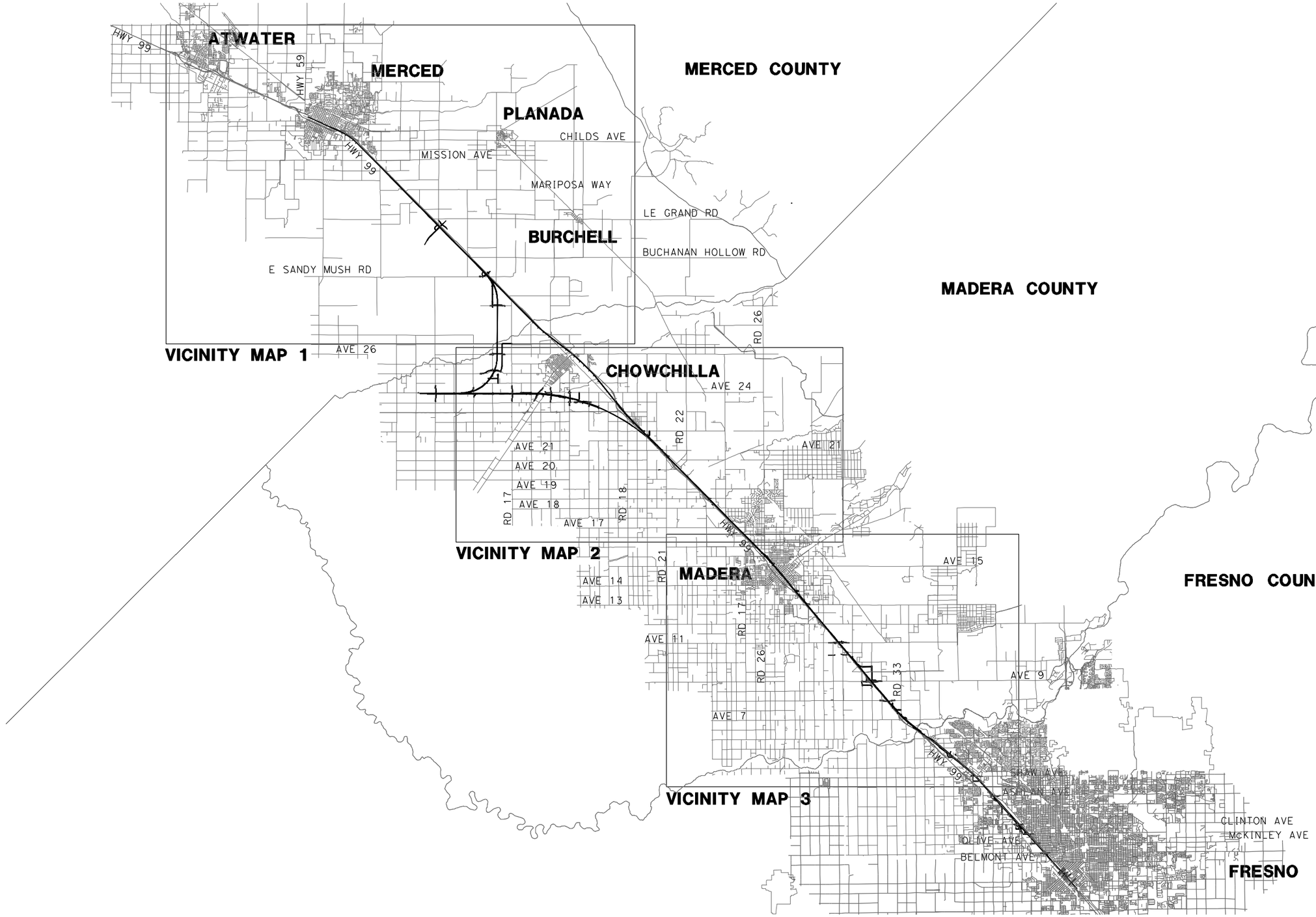

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24)

INDEX MAP
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B9100-B
SCALE NO SCALE
SHEET NO. ### OF ###

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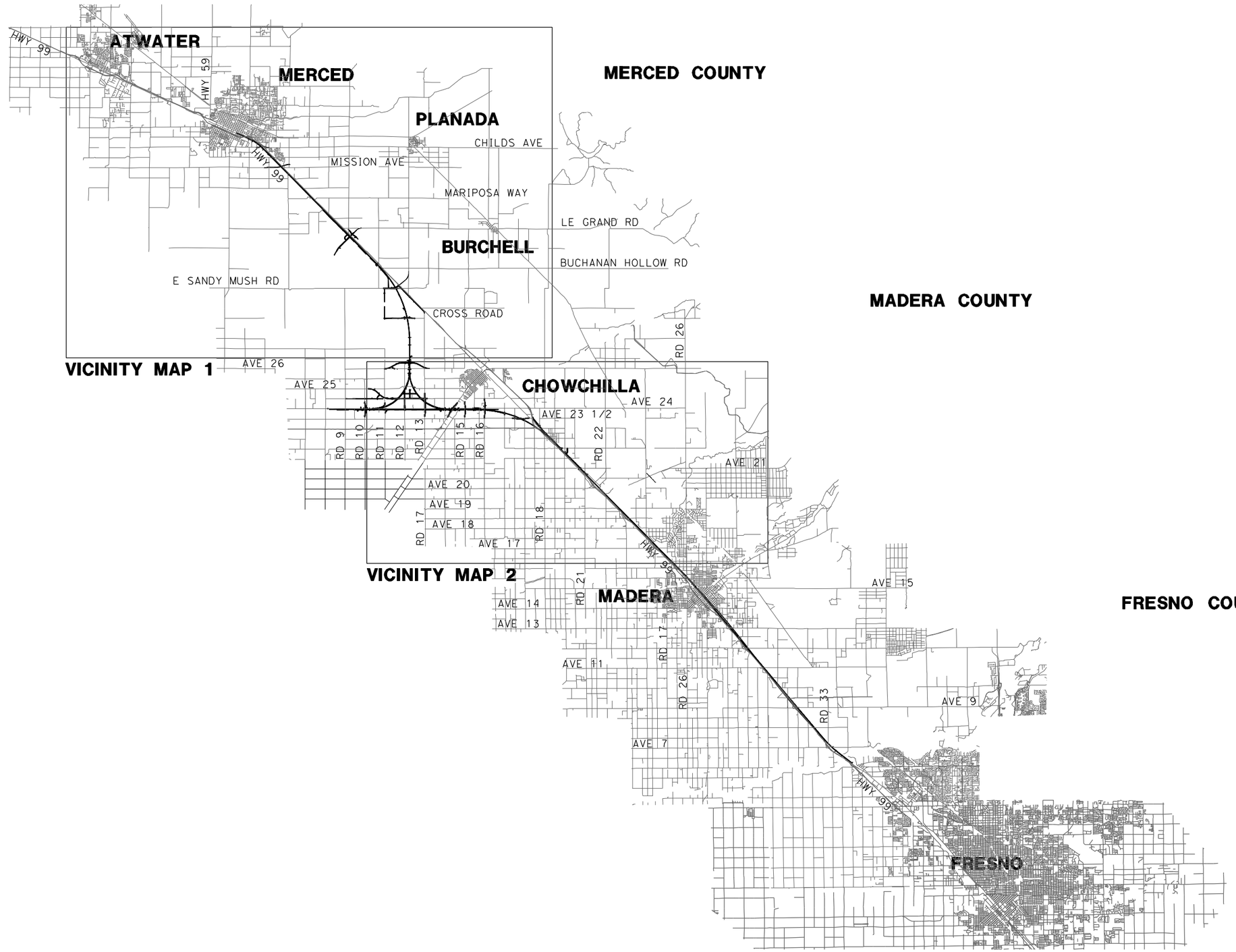

VICINITY MAP 1

VICINITY MAP 2

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (WC)

INDEX MAP
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B9101-B
SCALE NO SCALE
SHEET NO. ### OF ###

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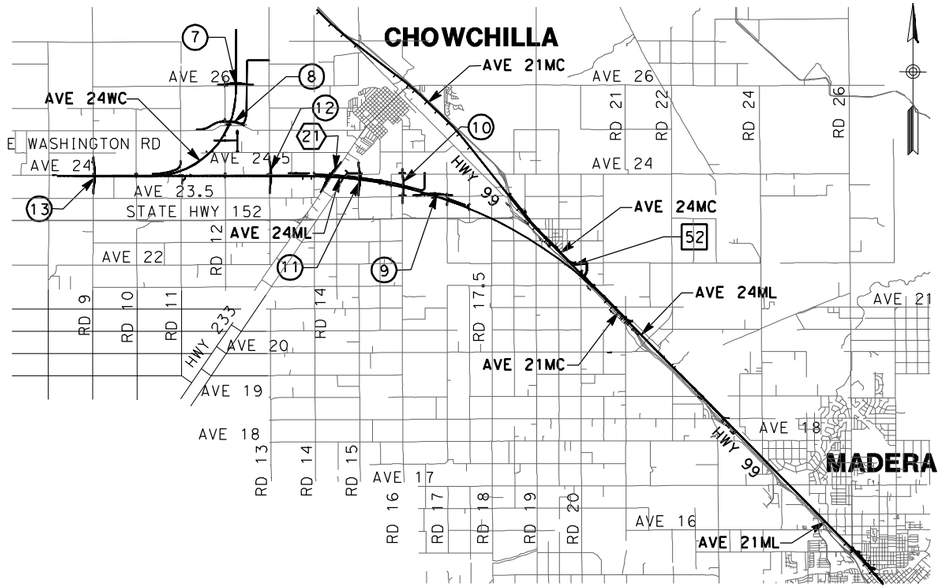
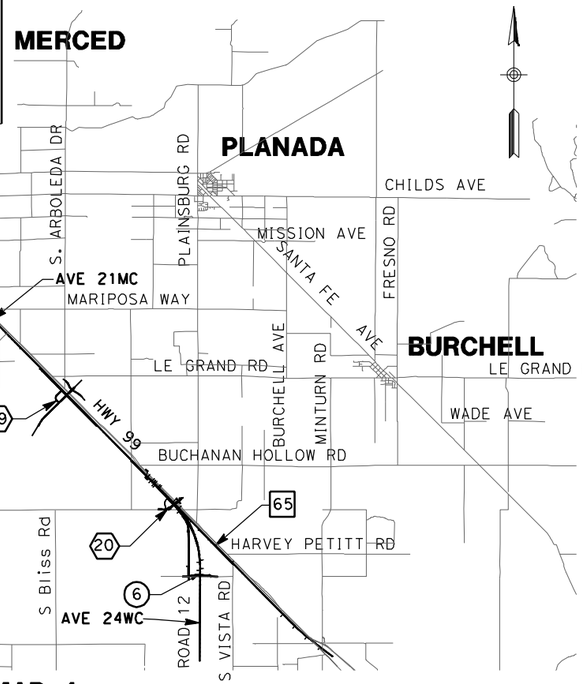
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(6)	GRADE SEPARATION - CROSS RD	CT5126-B - CT5128-B	ST1127
(7)	GRADE SEPARATION - AVENUE 26	CT5123-B - CT5125-B	ST1126
(8)	GRADE SEPARATION - AVENUE 25	CT5118-B - CT5122-B	ST1125
(9)	GRADE SEPARATION - AVENUE 23 1/2	CT5114-B - CT5117-B	ST1124
(10)	GRADE SEPARATION - ROAD 16	CT5111-B - CT5113-B	ST1123
(11)	GRADE SEPARATION - ROAD 15	CT5108-B - CT5110-B	ST1122
(12)	GRADE SEPARATION - ROAD 13	CT5104-B - CT5107-B	ST1138
(13)	GRADE SEPARATION - HEMLOCK RD (ROAD 9) ALT 1	CT5100-B - CT5103-B	ST1120
	GRADE SEPARATION - ROAD 9 ALONG EXIST ALT 2	CT5190-B - CT5192-B	ST1120
(64)	GRADE SEPARATION - G STREET	CT0149-A	ST1180
⟨14⟩	AVENUE 8 - OVERCROSSING	CT7100-B - CT7102-B	ST1107
⟨15⟩	AVENUE 9 - INTERCHANGE	CT7103-B - CT7109-B	ST1108 - ST1109
⟨16⟩	AVENUE 11 - OVERCROSSING	CT7110-B - CT7114-B	ST1110
⟨19⟩	GRADE SEPARATION - LE GRAND INTERCHANGE	CT7122-B - CT7128-B	ST1114
⟨20⟩	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	CT7119-B - CT7121-B	ST1142
⟨21⟩	GRADE SEPARATION - ROBERTSON BLVD (SR233) ALT 1	CT7115-B - CT7118-B	ST1141
	UNDERPASS - ROBERTSON BLVD (SR233) ALT 2	CT7137-B - CT7139-B	

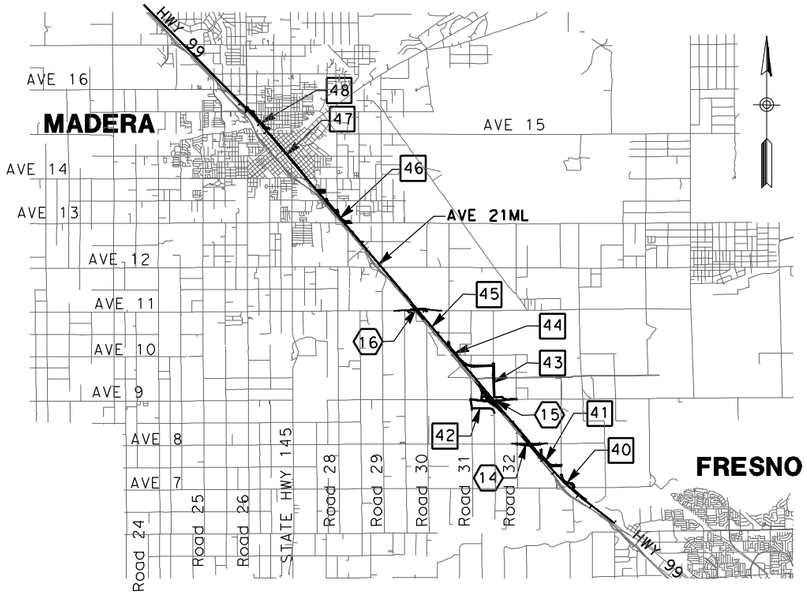
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
[40]	ROAD 33	CR9100-B
[41]	PROPOSED ROAD	CR9101-B
[42]	ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9	CR9102-B
[43]	ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9	CR9103-B
	ROAD 31 1/2	CR9104-B
[44]	ROAD 30 1/2	CR9105-B - CR9106-B
[45]	FRONTAGE ROAD	CR9107-B
	ROAD 30 AT AVENUE 11	CR9108-B - CR9109-B
[46]	S. KNOX ST	CR9110-B
[48]	SHARON BLVD & E ST	CR9111-B
[47]	N. E ST AND S. E ST	CR9112-B
[52]	FAIRMEAD BLVD	CR9113-B - CR9116-B
[65]	PROPOSED WEST FRONTAGE ROAD	CR9117-B - CR9118-B



VICINITY MAP 2



VICINITY MAP 1



VICINITY MAP 3

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

9000 0 9000 18000

GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPPR/SR99 - (AVE 24)

INDEX MAP
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B9102-B
SCALE NO SCALE
SHEET NO. ### OF ###

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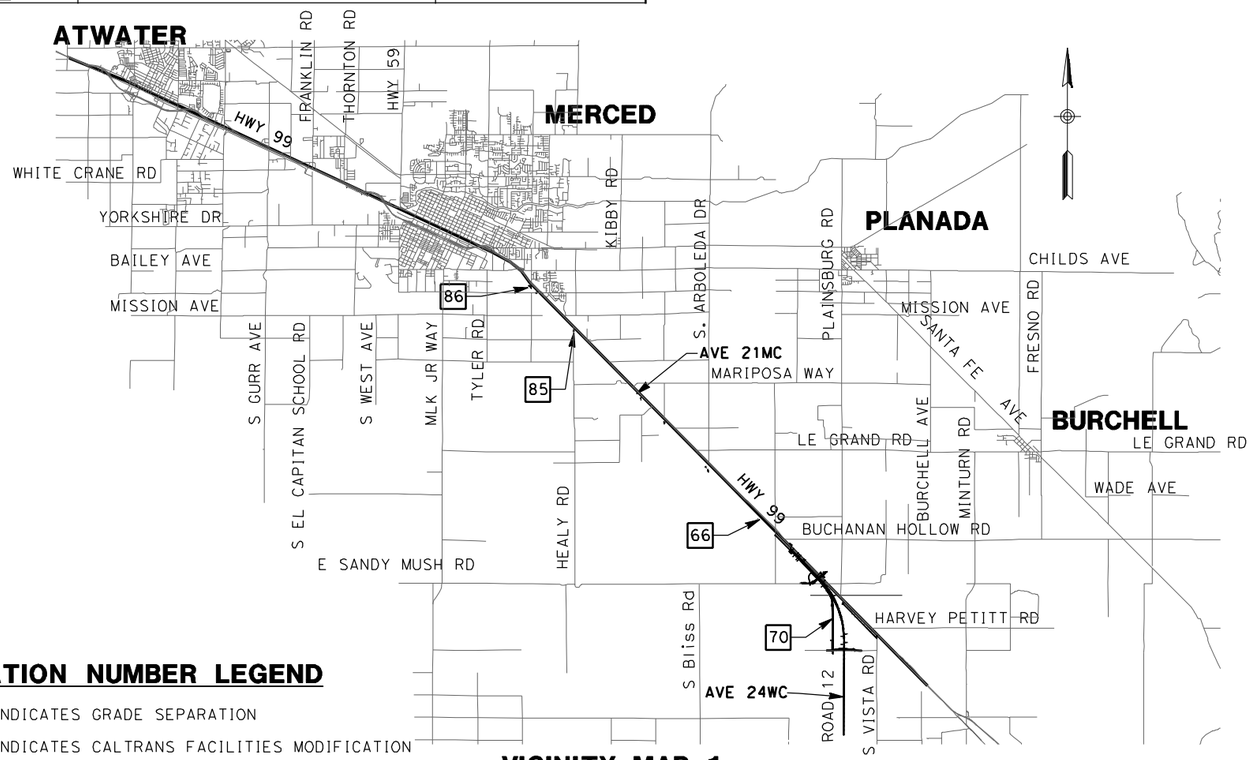
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
66	PROPOSED WEST FRONTAGE ROAD	CR9119-B - CR9125-B
67	SOUTH FRONTAGE ROAD	CR9130-B - CR9131-B
	PROPOSED AVENUE 24 WYE	CR9132-B
	SOUTH FRONTAGE ROAD	CR9133-B - CR9134-B
	NORTH AND SOUTH FRONTAGE ROAD	CR9135-B
68	NORTH AND SOUTH FRONTAGE ROAD	CR9136-B - CR9138-B
69	NORTH FRONTAGE ROAD & ROAD 16 1/2	CR9139-B - CR9140-B
	NORTH & SOUTH FRONTAGE ROAD AVENUE 24	CR9141-B - CR9142-B
70	ROAD 12	CR9143-B
71	AVENUE 24 1/2	CR9144-B
	ROAD 12 1/4 & AVENUE 24 1/2	CR9145-B
	ROAD 12 1/4	CR9146-B
72	ROAD 12 1/2	CR9147-B
	ROAD 12 1/2 & AVENUE 26 1/2	CR9148-B
	AVENUE 26 1/2	CR9149-B
85	HEALY ROAD	CR9176-B
86	GERARD AVENUE/CALTRANS FRONTAGE ROAD	CR9177-B



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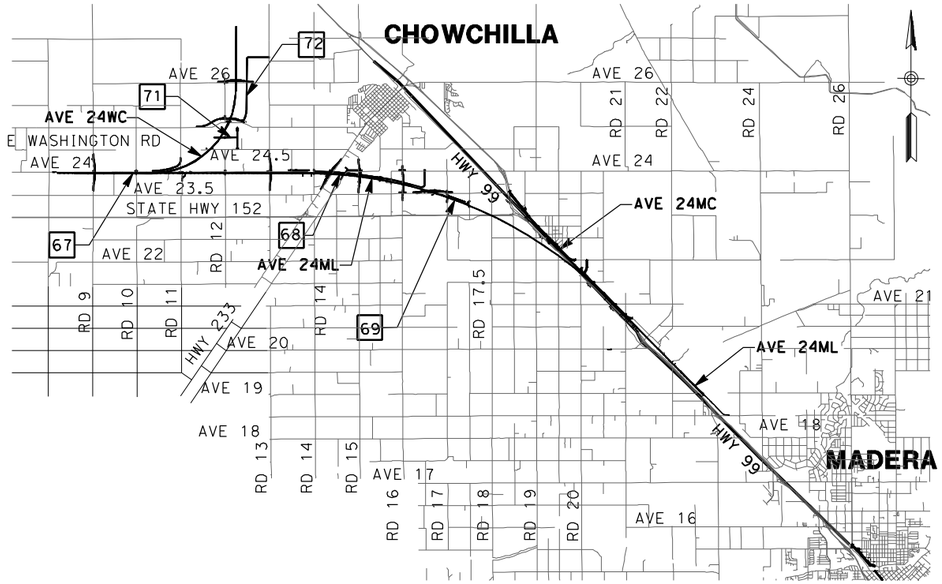

VICINITY MAP 2

LOCATION NUMBER LEGEND

- (X) - INDICATES GRADE SEPARATION
- ⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION
- [X] - INDICATES LOCAL ROAD RELOCATION

0 9000 18000
GRAPHIC SCALE

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MERCED TO FRESNO
UPPR/SR99 - (AVE 24)

INDEX MAP
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B9103-B
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SHEET NO. ### OF ###

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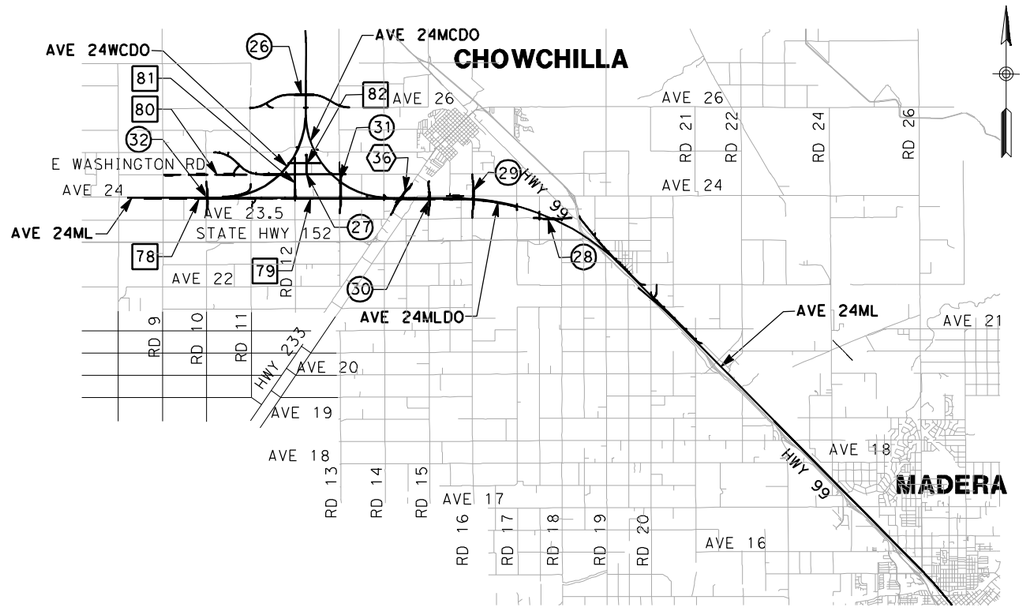
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(25)	GRADE SEPARATION - CROSS ROAD	CT5179-B - CT5181-B	ST1136
(26)	GRADE SEPARATION - AVENUE 26 ALT 1	CT5168-B - CT5177-B	ST1135
	UNDERPASS - AVENUE 26 ALT 2	CT5187-B - CT5189-B	
(27)	GRADE SEPARATION - AVENUE 25	CT5150-B - CT5166-B	ST1133 & ST1134
(28)	GRADE SEPARATION - AVENUE 23 1/2	CT5146-B - CT5149-B	ST1132
(29)	GRADE SEPARATION - ROAD 16	CT5142-B - CT5145-B	ST1131
(30)	GRADE SEPARATION - ROAD 15	CT5138-B - CT5141-B	ST1130
(31)	GRADE SEPARATION - ROAD 13	CT5132-B - CT5137-B	ST1129 & ST1137
(32)	GRADE SEPARATION - ROAD 10 ALT 1	CT5129-B - CT5131-B	ST1128
	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	CT5193-B - CT5195-B	ST1128
⟨35⟩	SANDY MUSH RD INTERCHANGE	CT7133-B - CT7136-B	ST1142
⟨36⟩	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	CT7129-B - CT7132-B	ST1143
	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	CT7140-B - CT7142-B	

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.
[66]	PROPOSED WEST FRONTAGE ROAD	CR9122-B - CR9125-B
[75]	LOCAL ROAD - WEST FRONTAGE ROAD	CR9126-B - CR9127-B
[76]	LOCAL ROAD - SANDY MUSH ROAD	CR9152-B
	LOCAL ROAD - WEST FRONTAGE ROAD	CR9128-B - CR9129-B
[77]	LOCAL ROAD - ROAD 11	CR9150-B - CR9151-B
	LOCAL ROAD - CROSS ROAD	CR9153-B
[78]	SOUTH FRONTAGE ROAD	CR9159-B
	AVENUE 24	CR9160-B
[79]	SOUTH FRONTAGE ROAD	CR9161-B - CR9163-B
	LOCAL ROAD - FRONTAGE ROAD	CR9164-B
	LOCAL ROAD - FRONTAGE ROAD & AVE 24	CR9165-B
	LOCAL ROAD - FRONTAGE ROAD	CR9166-B
[80]	LOCAL ROAD - AVENUE 24 1/2	CR9154-B - CR9155-B
[81]	LOCAL ROAD - ROAD 12	CR9156-B
[82]	LOCAL ROAD - ROAD 12 1/2 & AVE 24 3/4	CR9157-B
	LOCAL ROAD - AVENUE 24 3/4	CR9158-B

VICINITY MAP 1



VICINITY MAP 2

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

9000 0 9000 18000

GRAPHIC SCALE

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CH2MHILL

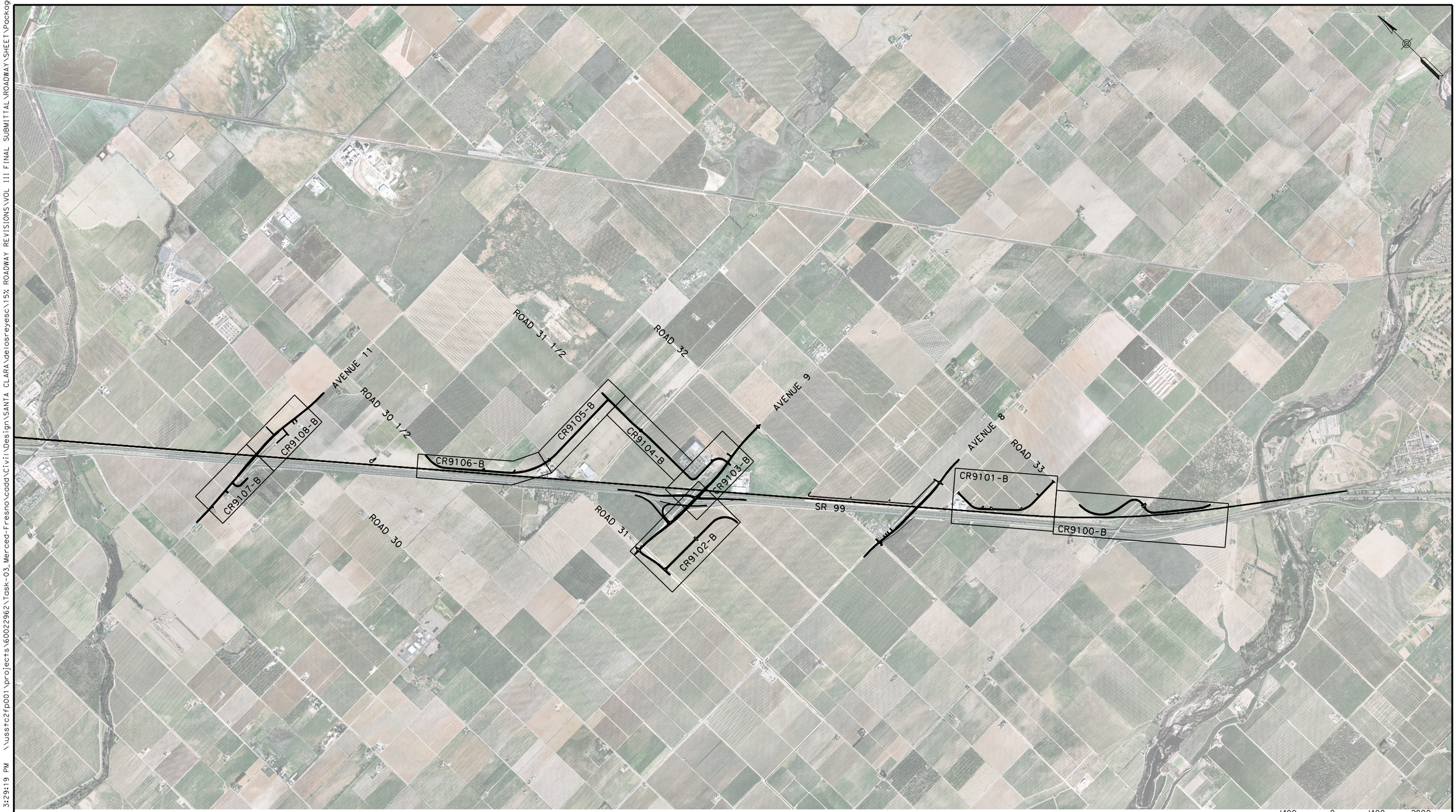
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPPR/SR99 - (WC)

INDEX MAP
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. B9104-B
SCALE NO SCALE
SHEET NO. ### OF ###

USER=ReyesC1 4/2/2012 3:40:05 PM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 -



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
LOCAL & FRONTAGE ROAD
KEY MAP
SHEET 1 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. CB9100-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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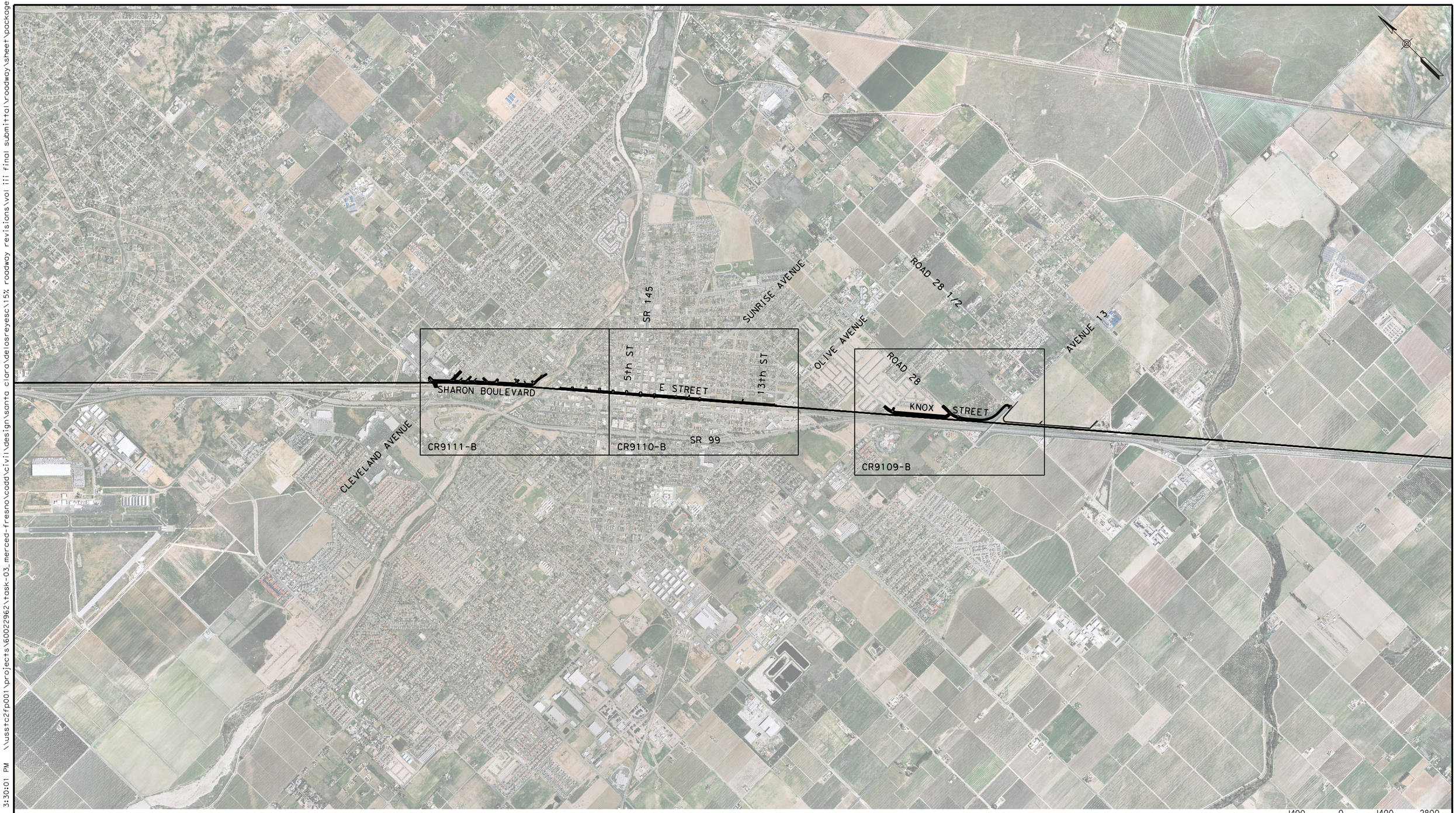

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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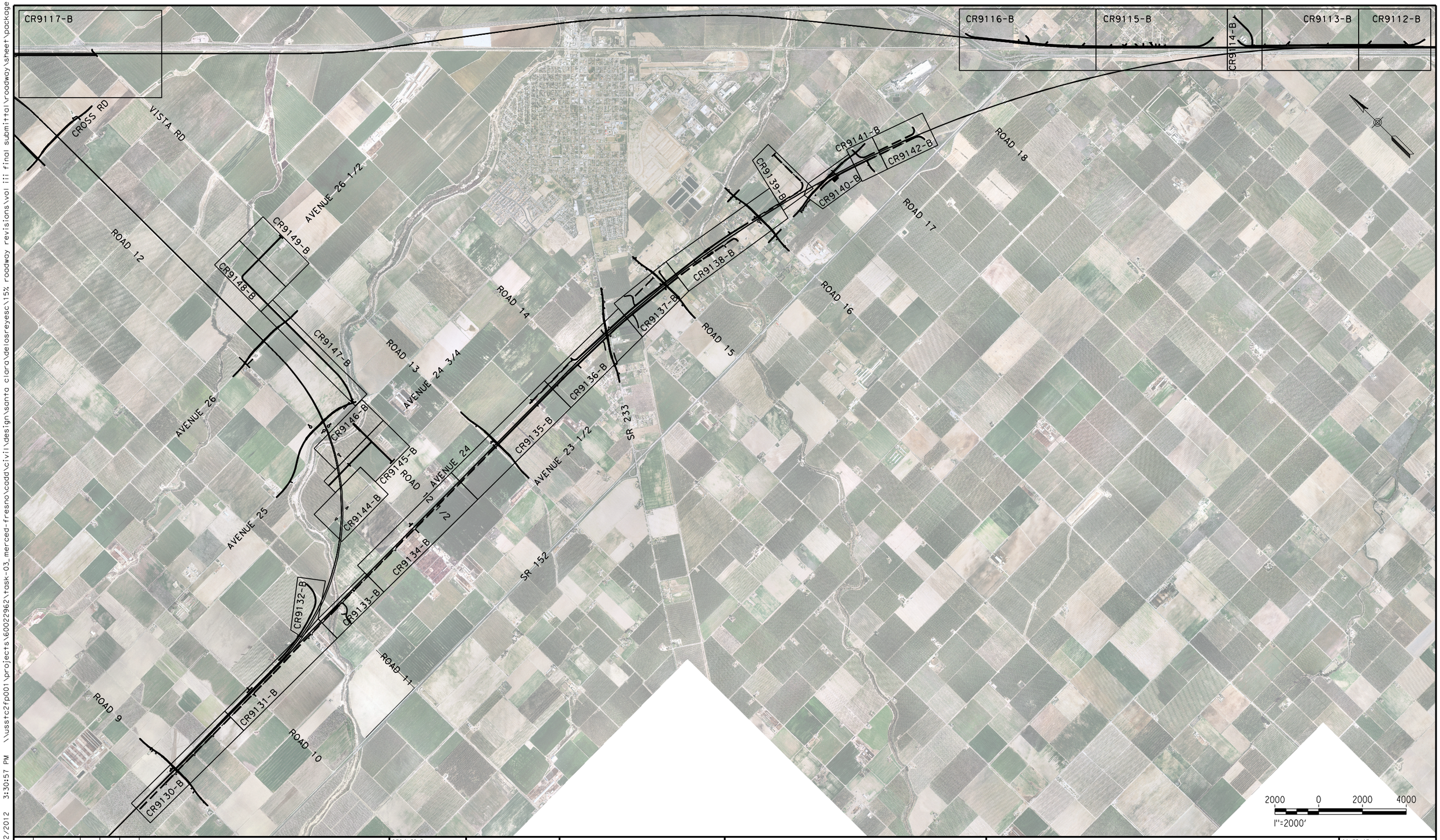
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
LOCAL & FRONTAGE ROAD
KEY MAP
SHEET 2 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. CB9101-B
SCALE AS SHOWN
SHEET NO. ### OF ###

USER=ReyesC1 4/2/2012 3:30:01 PM \\ussfc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 -



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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ALIGNMENT A2-24 WYE
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE/MERCED - (AVE 24)
LOCAL & FRONTAGE ROAD
KEY MAP
SHEET 3 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. CB9102-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
LOCAL & FRONTAGE ROAD
KEY MAP
SHEET 4 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. CB9103-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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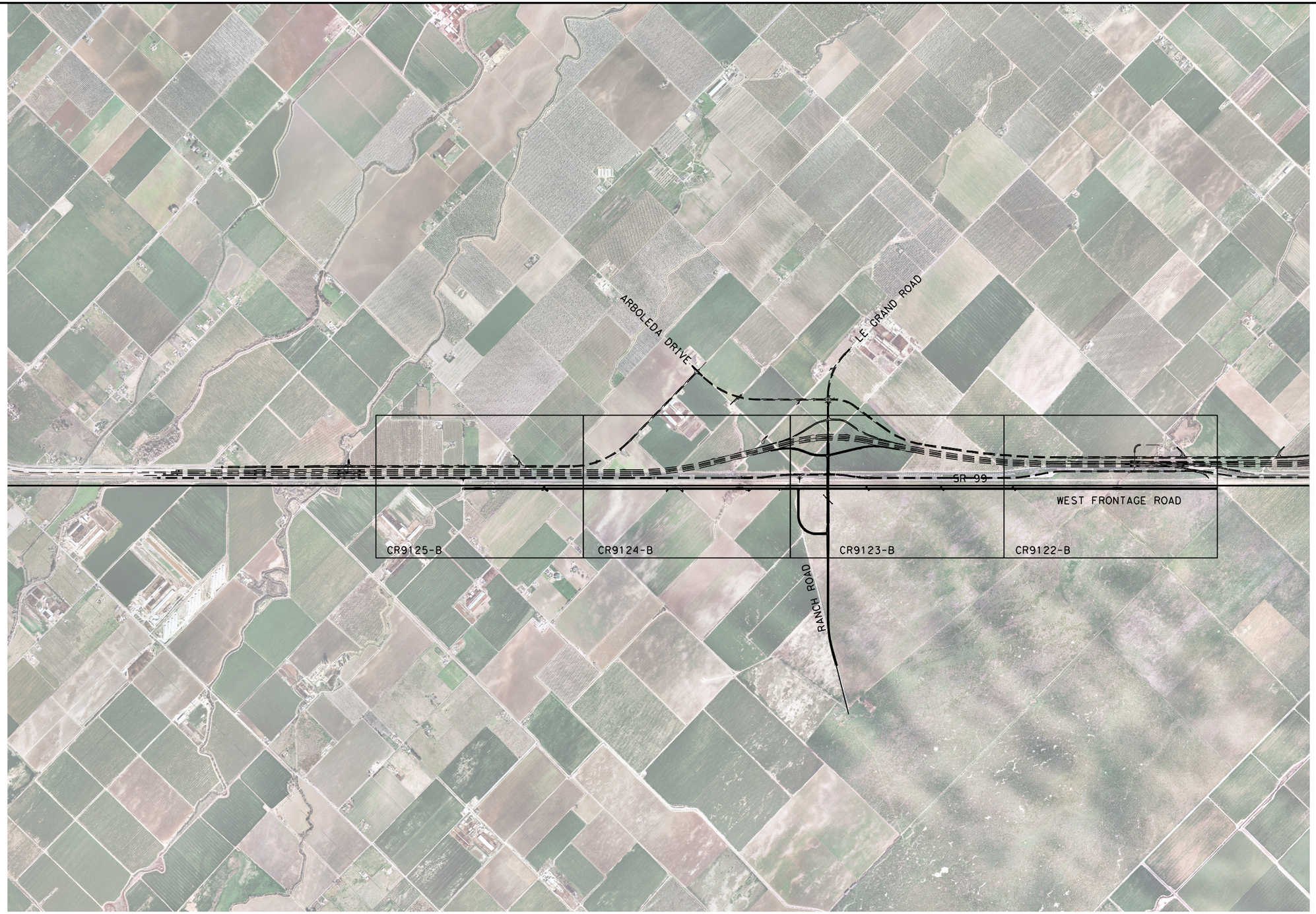

1400 0 1400 2800
1"=1400'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
LOCAL & FRONTAGE ROAD
KEY MAP
SHEET 5 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. CB9104-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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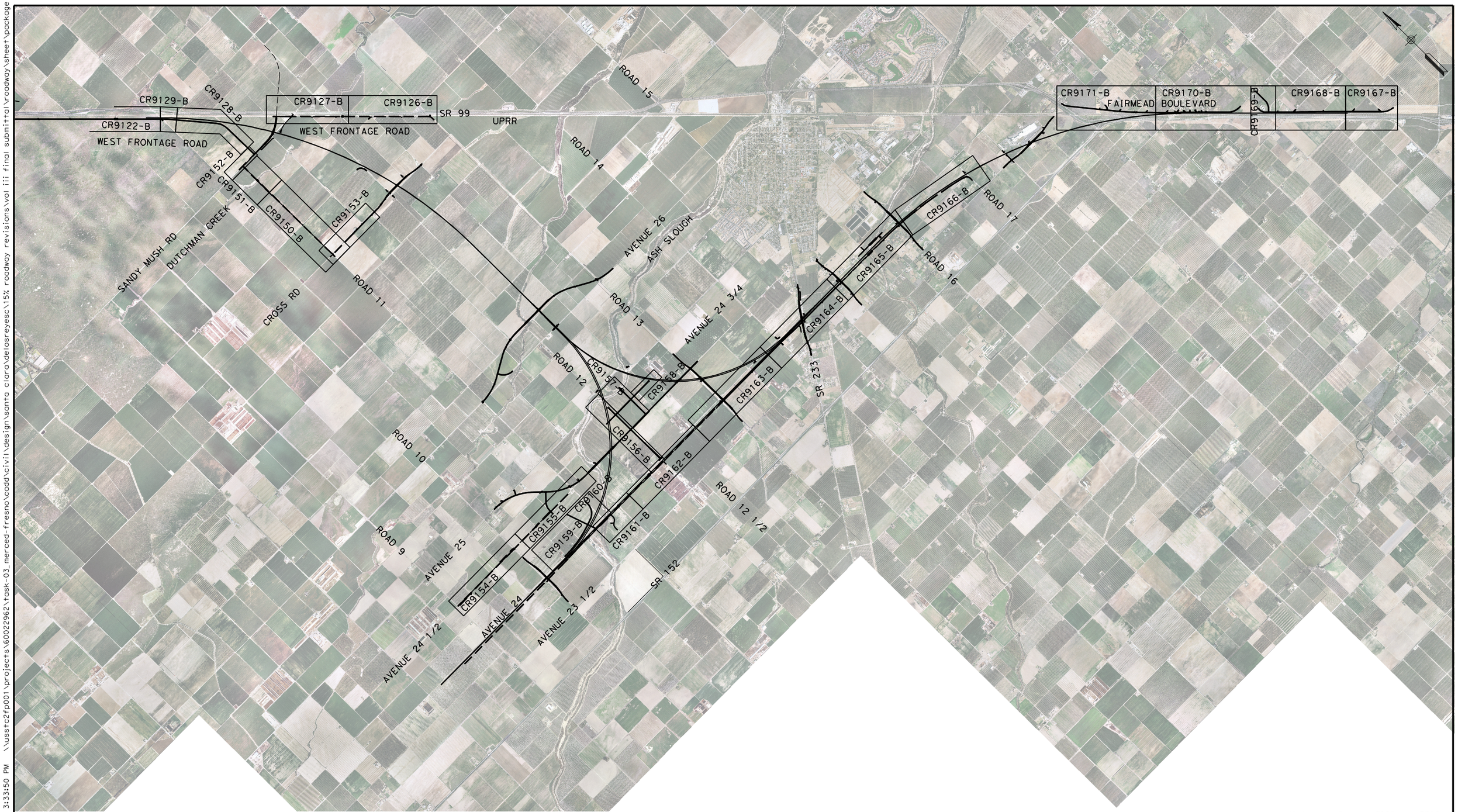

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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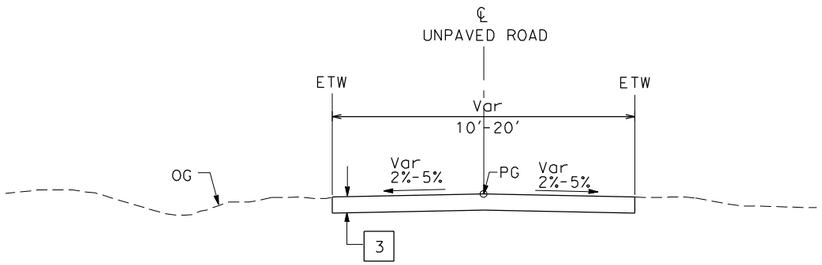
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

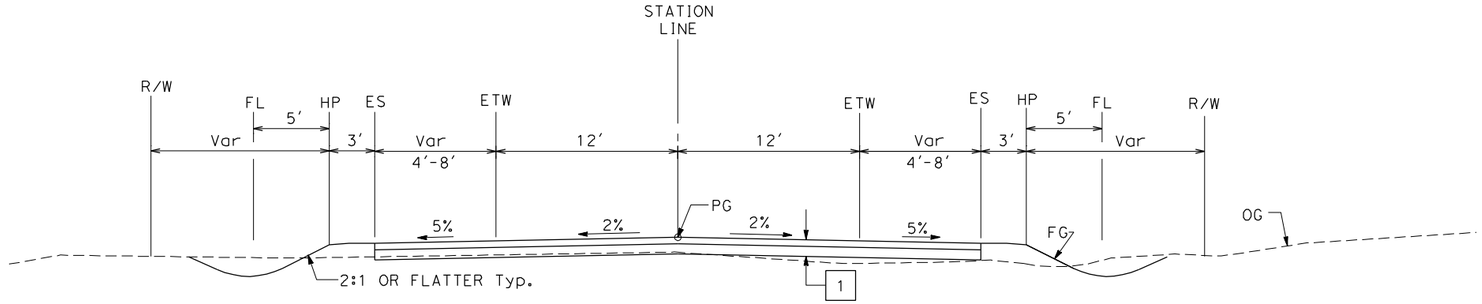
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE/MERCED DO - (WC)
LOCAL & FRONTAGE ROAD
KEY MAP
SHEET 6 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. CB9105-B
SCALE AS SHOWN
SHEET NO. ### OF ###



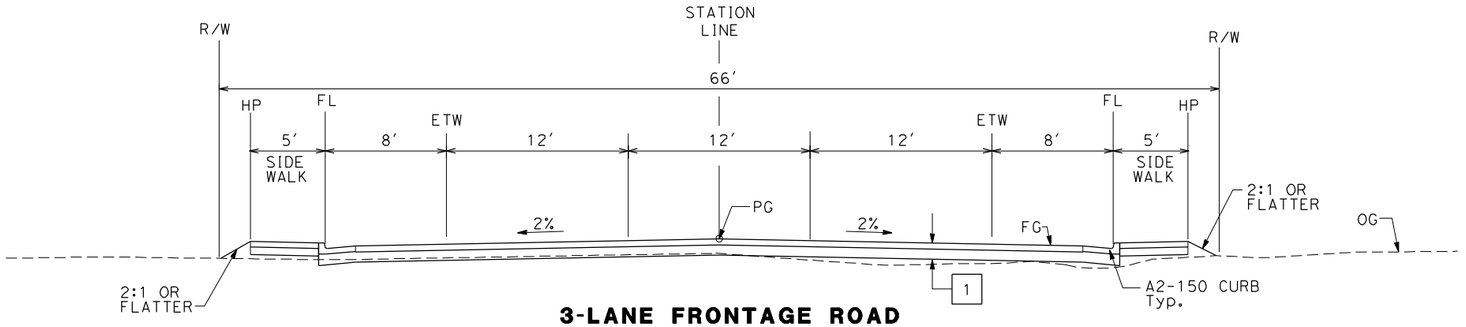
UNPAVED ROAD (TYP)
SEE LAYOUT SHEETS
FOR ACTUAL ROADWAY WIDTHS



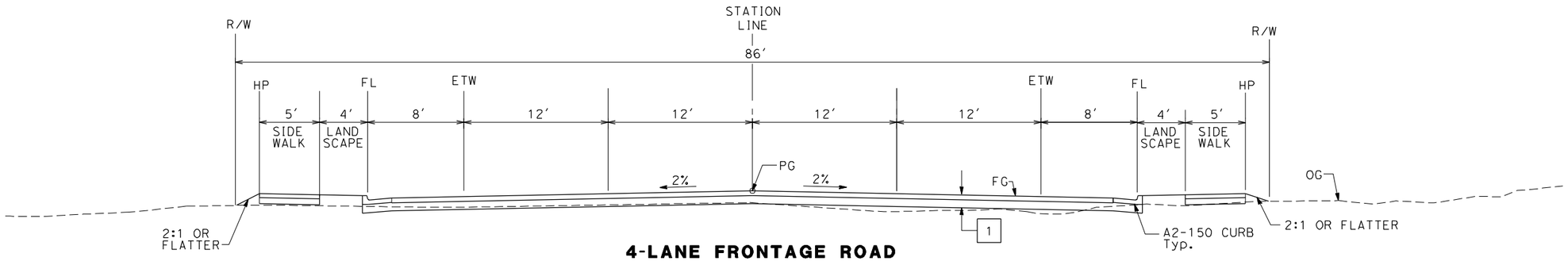
2-LANE FRONTAGE ROAD
SEE LAYOUT SHEETS
FOR ACTUAL SHOULDER WIDTHS

STRUCTURAL SECTIONS:

1	HMA TYPE A AB CLASS 2
3	AB CLASS 2



3-LANE FRONTAGE ROAD
SEE LAYOUT SHEETS
FOR ACTUAL SHOULDER WIDTHS



4-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
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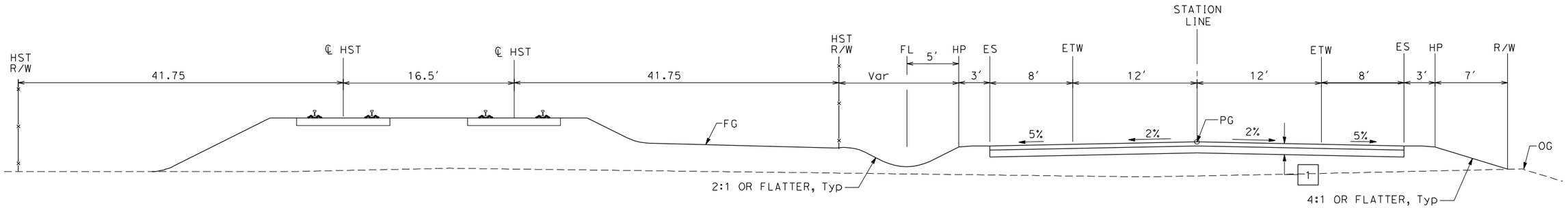
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (AVE 24/WC)
LOCAL ROADS
TYPICAL CROSS SECTIONS
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CR9090-B
SCALE NTS
SHEET NO. ### OF ###

4/27/2011 7:19:00 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Typical Section\CR9090-B.dgn ReyesC1

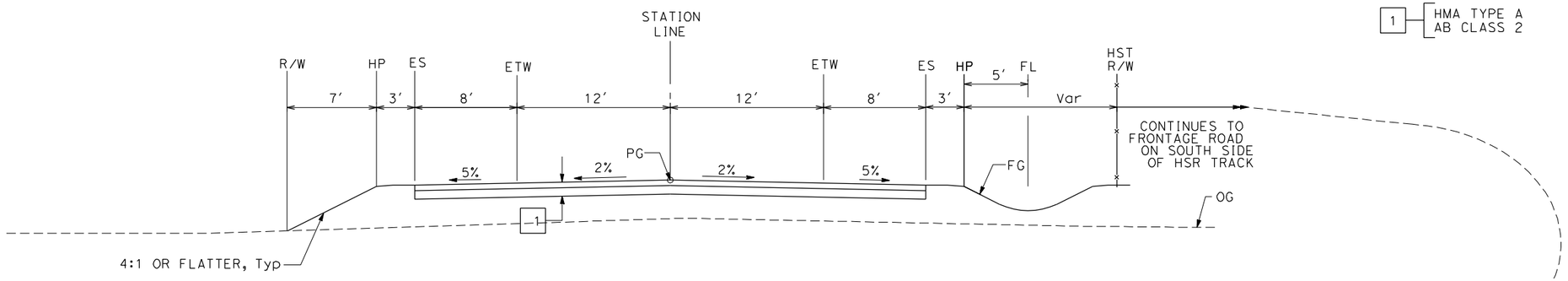


2-LANE FRONTAGE ROAD

FRONTAGE ROAD ALONG TRACK ALIGNMENT

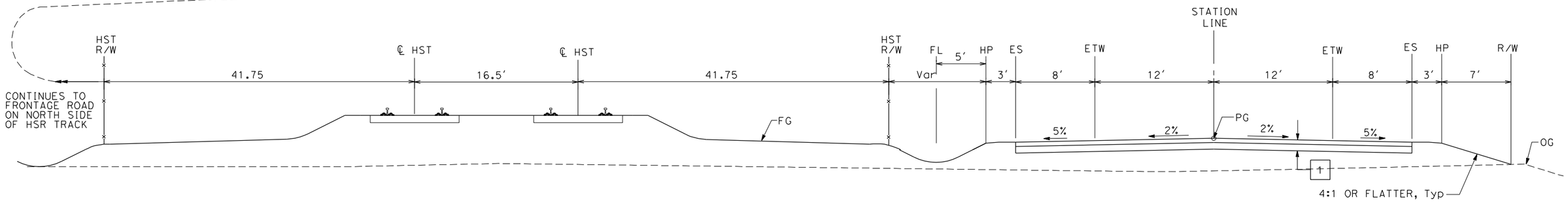
STRUCTURAL SECTIONS:

1 — HMA TYPE A
AB CLASS 2



2-LANE FRONTAGE ROAD*

NORTH SIDE OF TRACK



2-LANE FRONTAGE ROAD*

SOUTH SIDE OF TRACK

*APPLYS TO DUAL FRONTAGE ROADS SEPERATED BY THE HIGH SPEED TRACK ALIGNMENT.

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

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 - (AVE 24/WC)
LOCAL ROADS
TYPICAL CROSS SECTIONS
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CR9091-B
SCALE NTS
SHEET NO. ### OF ###

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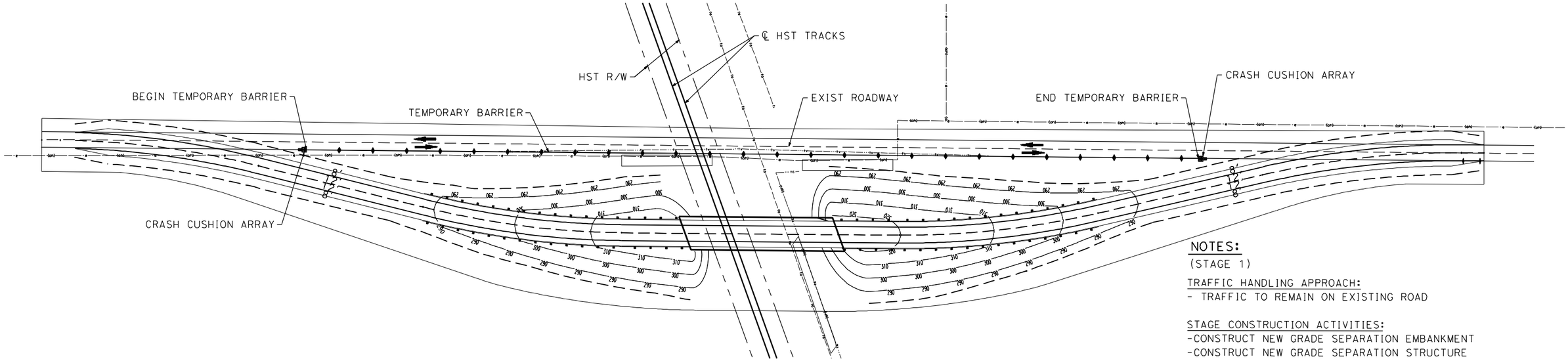
ReyesCl

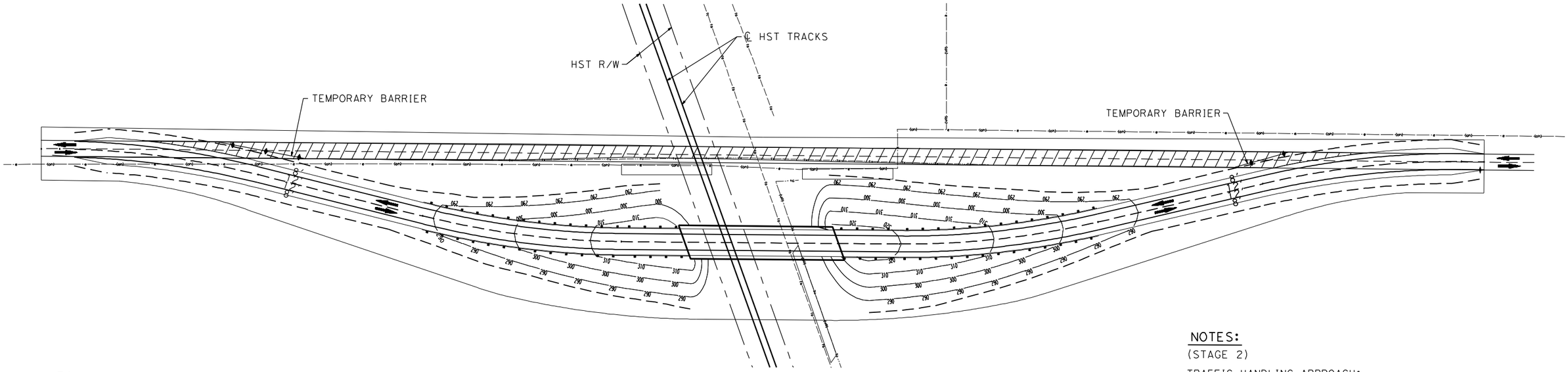


STAGE CONSTRUCTION (STAGE 1)

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 (TYPE U11)
- TEMPORARY BARRIER (TYPE K)
- DIRECTION OF TRAVEL
- REMOVE BASE AND SURFACING (EXIST ROAD)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: S. WONG
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 - (AVE 24/WC)

GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CR9092-B
SCALE NO SCALE
SHEET NO. ### OF ###

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ReyesC1

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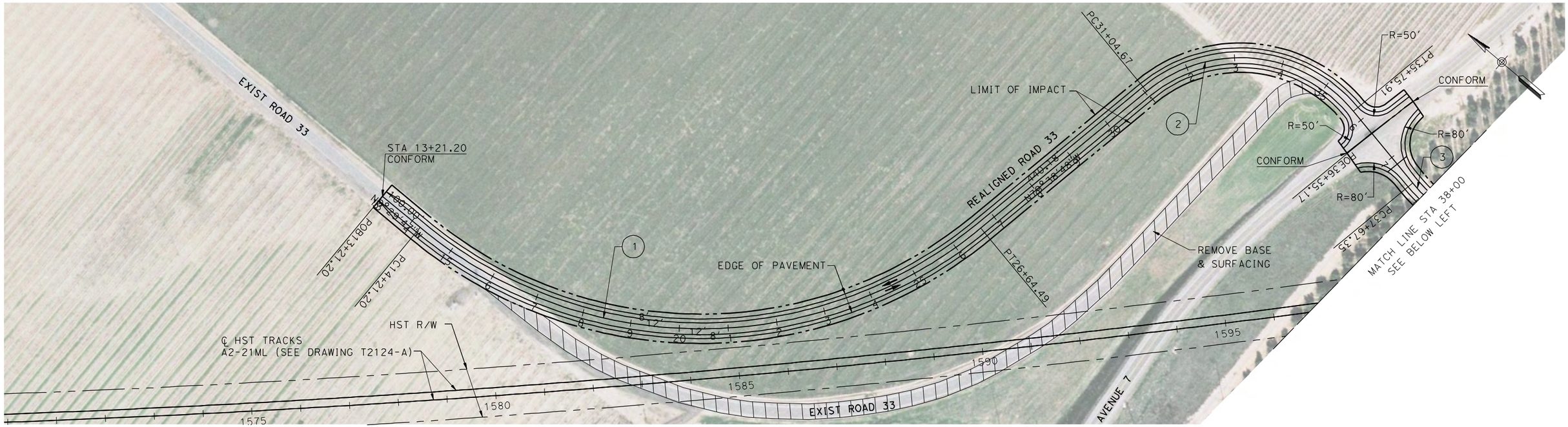
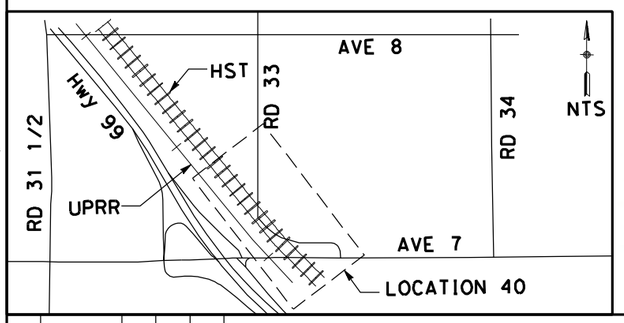


CURVE DATA

No.	R	Δ	T	L
(1)	900.00	79°9'1"	743.89	1243.29
(2)	300.00	90°0'0"	300.00	471.24
(3)	300.00	59°26'46"	171.28	311.26
(4)	18000.00	1°46'53"	279.85	559.66
(5)	900.00	20°39'8"	163.98	324.40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. LI
DRAWN BY A. TRINH
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
ROAD 33
LAYOUT
STA 13+21 TO STA 58+86

CONTRACT NO. HSR06-007
DRAWING NO. CR9100-B
SCALE AS SHOWN
SHEET NO. ### OF ###

CURVE DATA

No.	R	Δ	T	L
(1)	700.00	48°9'51"	312.86	588.44
(2)	425.00	42°25'11"	164.93	314.66

STA 10+00
CONFORM

POT ROAD 43.37

R=50'

STA 45+94.17
CONFORM

R=50'

LIMIT OF IMPACT

EDGE OF PAVEMENT

PT36+00.87

LIMIT OF IMPACT

REALIGNED LOCAL ROAD

HST R/W

EXIST LOCAL ROAD

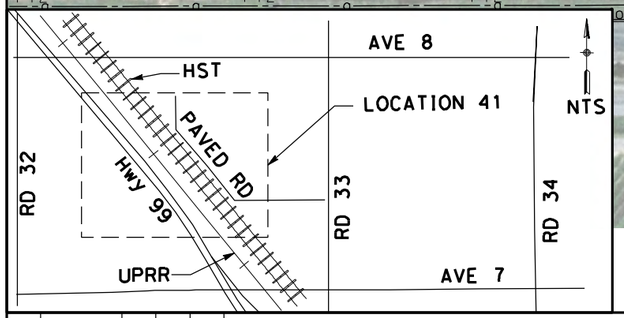
℄ HST TRACKS
A2-21ML (SEE DRAWING T2123-A)

UPRR

UPRR R/W

SR 99 NB

SR 99 SB



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
REALIGNED ROAD
LAYOUT
STA 10+00 TO STA 45+94

CONTRACT NO. HSR06-007
DRAWING NO. CR9101-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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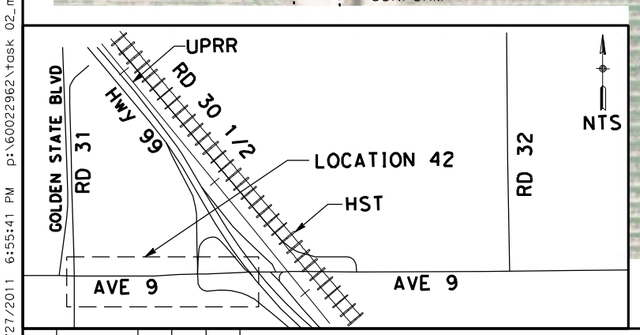
p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla local roads\Layout\CR9102-B.dgn
4/27/2011 6:55:41 PM
ReyesC1

CONFORM
PC119+50.81
20+54.86
N0°20'38"W
203.74'
R=50'
R=50'
PUMP STATION
PT117+47.08
POB 118+00.00
LIMIT OF IMPACT
PC116+39.61
REALIGNED ROAD 31
EXIST ROAD 31
PT113+18.43
PC109+73.76
R=50'
LIMIT OF IMPACT
R=50'
STA 106+00
CONFORM
PT127+60.89
EXIST AVENUE 9
REALIGNED AVENUE 9
PC131+22.62
PT137+81.99
NB ON-RAMP
℄ HST TRACKS
A2-21ML
(SEE DRAWING T2121-A)
HST R/W
UPRR R/W
UPRR
SR 99 NB
SR 99 SB
NB OFF-RAMP
REMOVE BASE AND SURFACING
SEE DRAWING CT7105-B
REALIGNED GOLDEN STATE BOULEVARD
2102.03'
N89°29'47"W
CONFORM
CONFORM
LIMIT OF IMPACT
EDGE OF PAVEMENT
LIMIT OF IMPACT
PC121+37.17
EXIST GOLDEN STATE BOULEVARD
STA 130+35.68
CONFORM



CURVE DATA

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2	2000.00	80°7'34"	172.76	344.67
3	550.00	1°36'28"	534.78	848.50

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9 LAYOUT
STA 100+00 TO STA 130+35.68

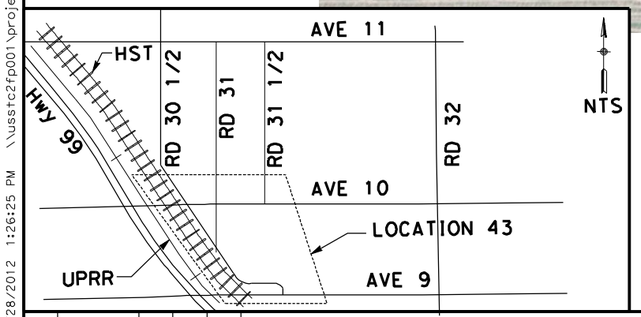
CONTRACT NO. HSR06-007
DRAWING NO. CR9102-B
SCALE AS SHOWN
SHEET NO. ### OF ###

MATCH LINE STA 45+00
SEE DRAWING CR9104-B

LIMIT OF IMPACT
LIMIT OF IMPACT
REMOVE BASE AND SURFACING
℄ HST TRACKS
A2-21ML (SEE DRAWING T2121-A)
STA 45+83.68 POT=
STA 110+47.37 POC
POB110+00.00
PC110+47.37
UPRR R/W
HST R/W
EDGE OF PAVEMENT
PROPOSED ROAD 31 1/2
719.78
N89°8'18"E
PC119+92.15
CONFORM
CONFORM
PT119+72.55
EXIST ROAD 30 1/2
LIMIT OF IMPACT
EXIST AVENUE 9
REMOVE BASE AND SURFACING
REALIGNED AVENUE 9
R=50'
R=50'
CELL TOWER
POE126+61.39
CONFORM
PC151+17.87
NB ON-RAMP
NB OFF-RAMP
UPRR
SR 99 MB
SR 99 SB
EXIST GOLDEN STATE BOULEVARD
SEE DRAWING CT7105-B
SEE DRAWING CT7105-B

CURVE DATA

No.	R	Δ	T	L
(4)	142.00	359°8'18"	144.15	225.19
(5)	300.00	8°23'29"	258.99	427.30



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

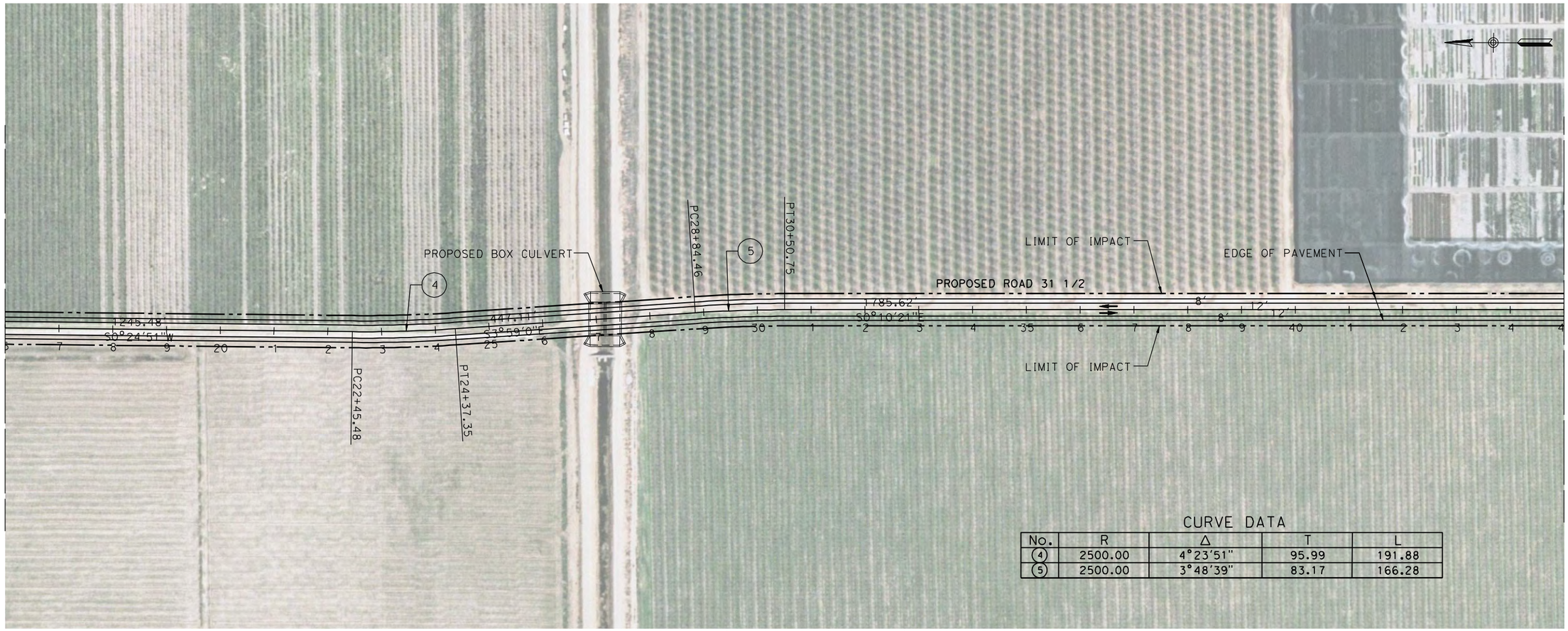
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
ROAD 31 1/2
LAYOUT
SHEET 1 OF 4

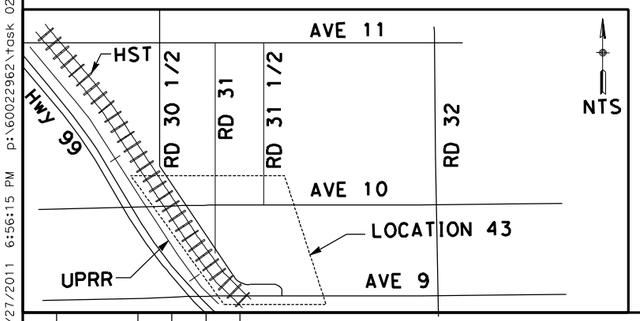
CONTRACT NO. HSR06-007
DRAWING NO. CR9103-B
SCALE AS SHOWN
SHEET NO. ### OF ###

USER=ReyesC1 3/28/2012 1:26:25 PM \\usstc2fp001\projects\60022962\Task-03_Merced-Fresno\cadd\Civil\Design\SANTA CLARA\delosreyesc\15% ROADWAY REVISIONS\VOL III FINAL SUBMITTAL\ROADWAY\SHEET\Package 2



CURVE DATA

No.	R	Δ	T	L
(4)	2500.00	4°23'51"	95.99	191.88
(5)	2500.00	3°48'39"	83.17	166.28



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

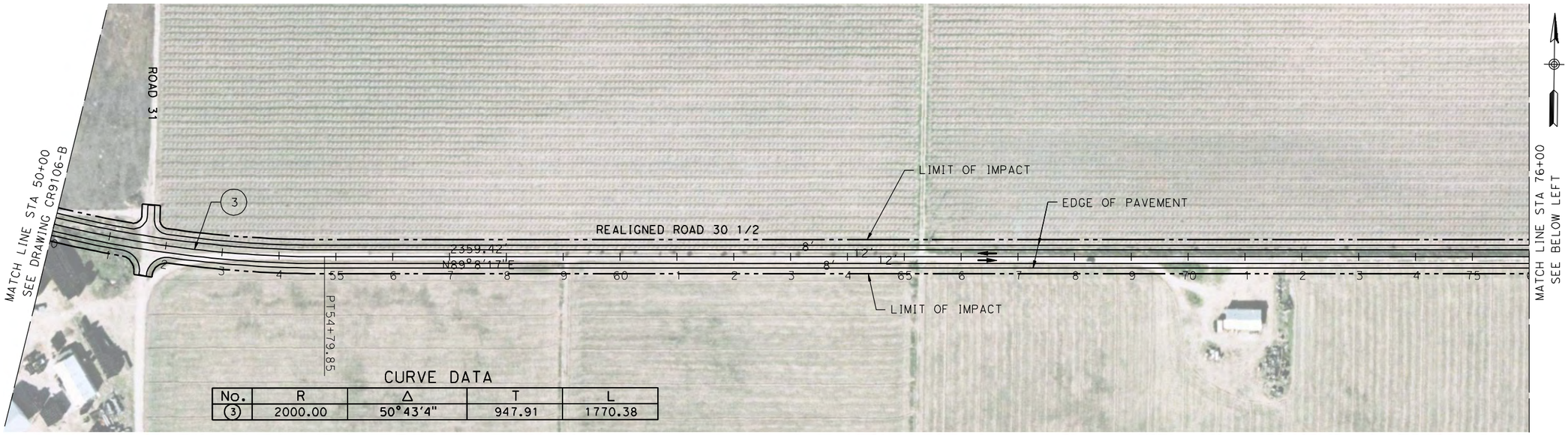
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
ROAD 31 1/2
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CR9104-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:56:15 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9104-B.dgn
ReyesCI



CURVE DATA

No.	R	Δ	T	L
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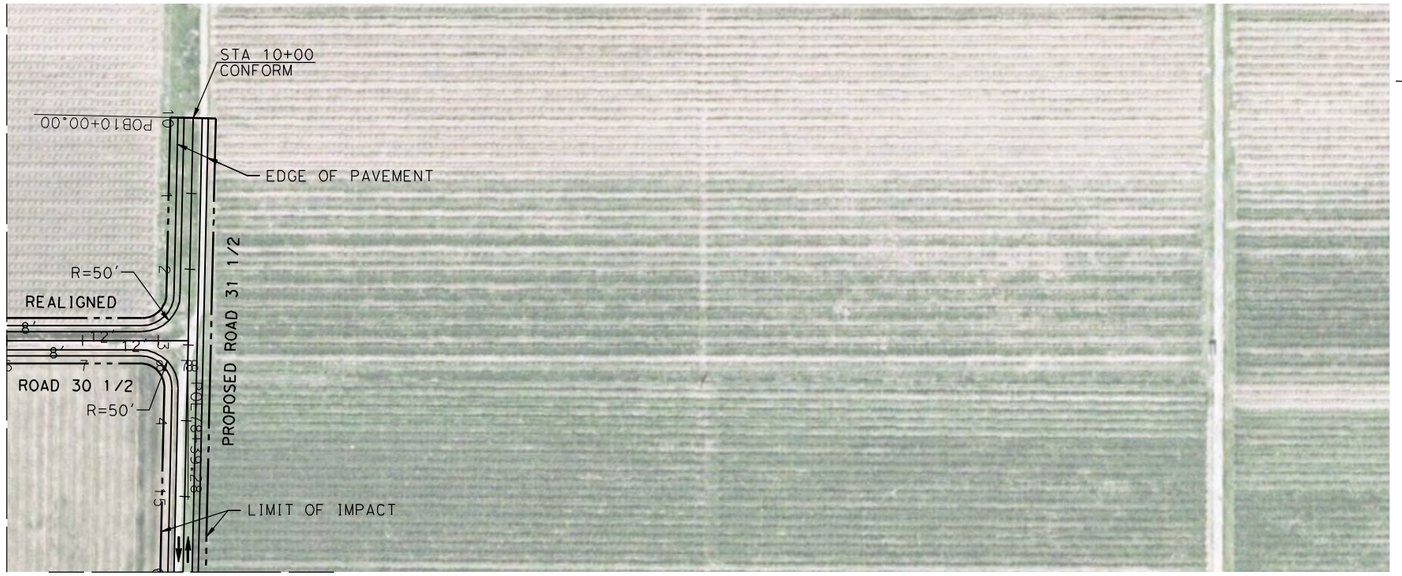
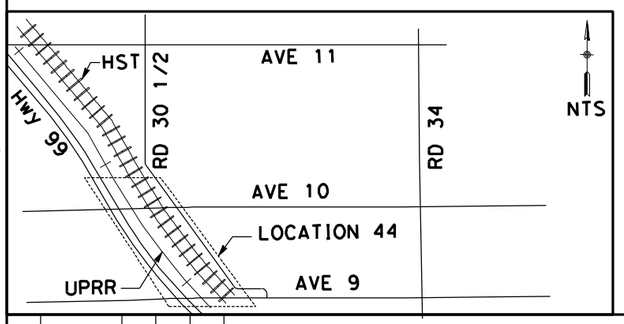
H: 1"=100'





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

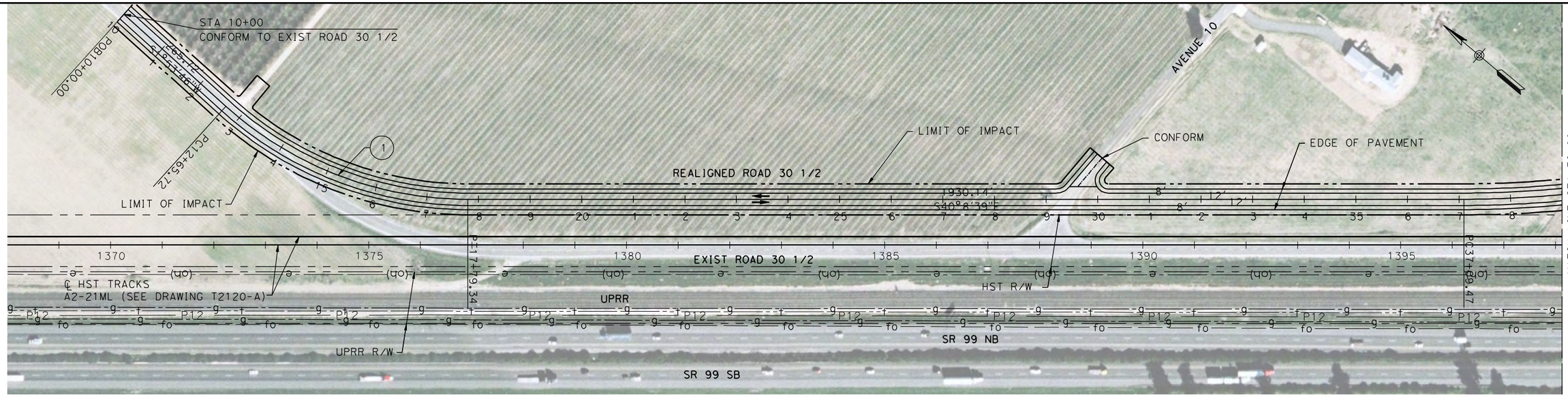
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

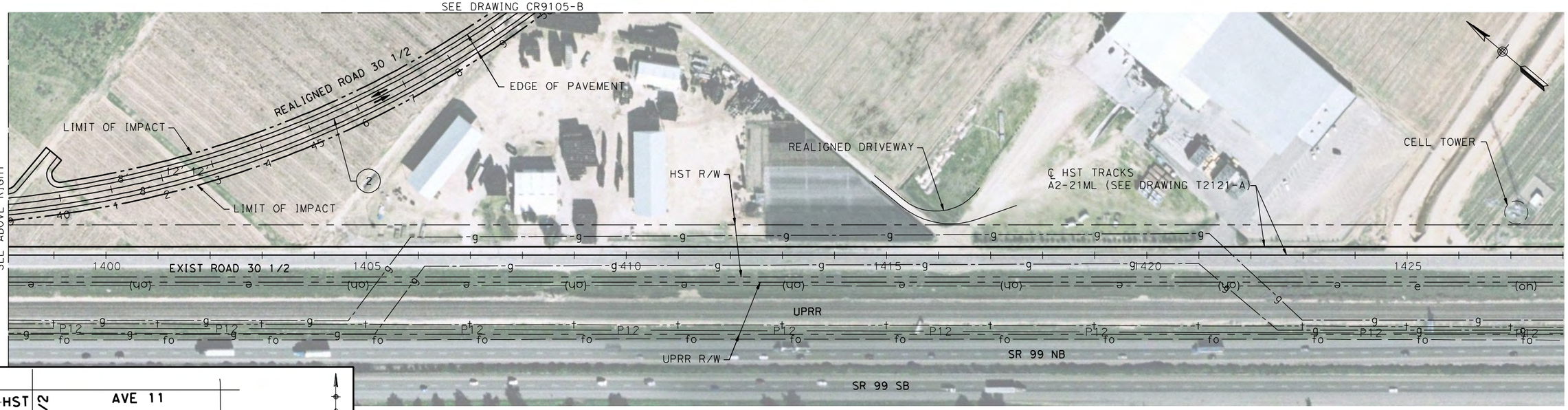
UPRR/SR99 MAINLINE - (AVE 24/WC)
ROAD 30 1/2 & ROAD 31 1/2
LAYOUT
SHEET 3 OF 4

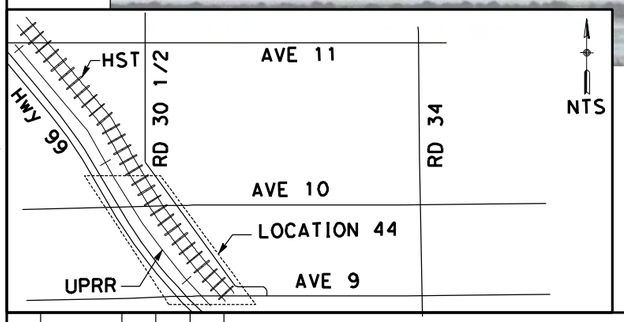
CONTRACT NO. HSR06-007
DRAWING NO. CR9105-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:56:28 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9105-B.dgn
ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye & w. chowchilla local roads\Layout\CR9106-B.dgn
4/27/2011 6:56:45 PM
ReyesC1







CURVE DATA

No.	R	Δ	T	L
(1)	700.00	42°2'25"	268.99	513.62
(2)	2000.00	50°43'04"	947.91	1770.38

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

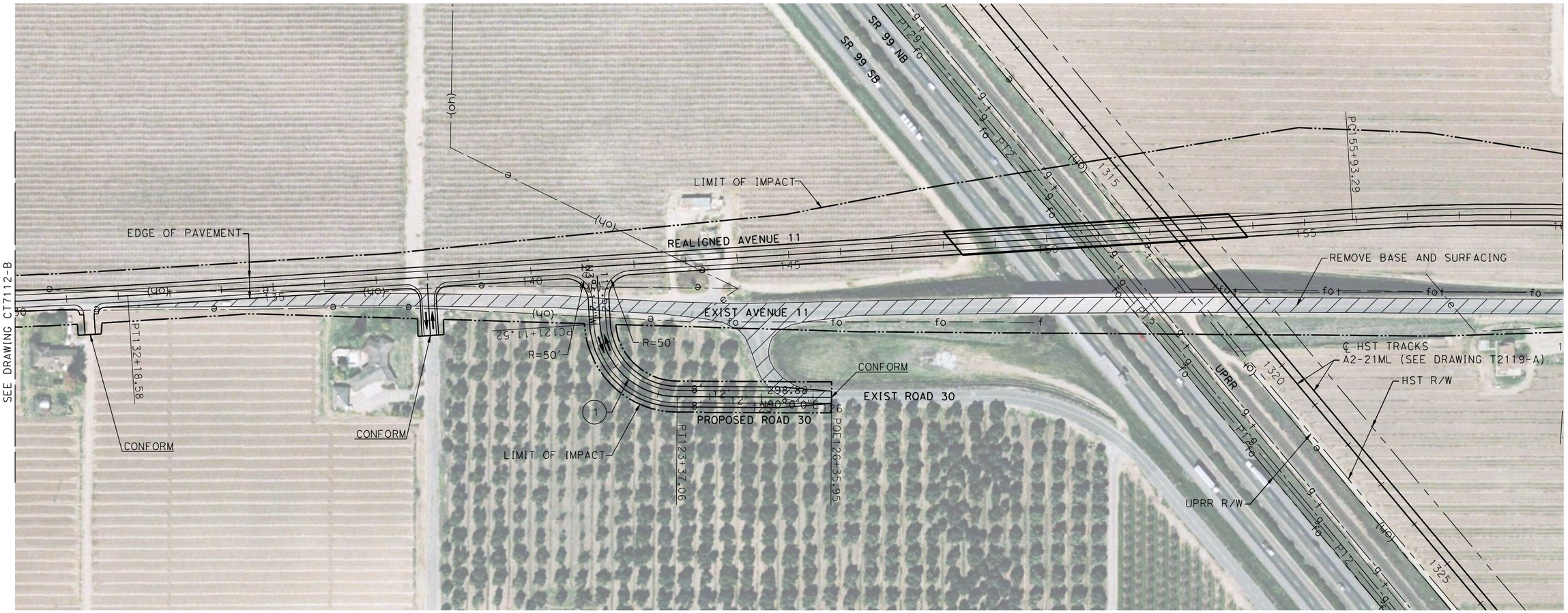
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

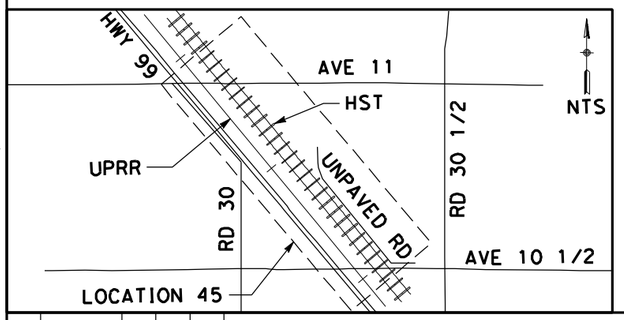
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
ROAD 30 1/2
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CR9106-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9107-B.dgn
4/27/2011 6:57:01 PM ReyesC1





CURVE DATA

No.	R	Δ	T	L
(1)	150.00	3°51'4"	140.24	225.54

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

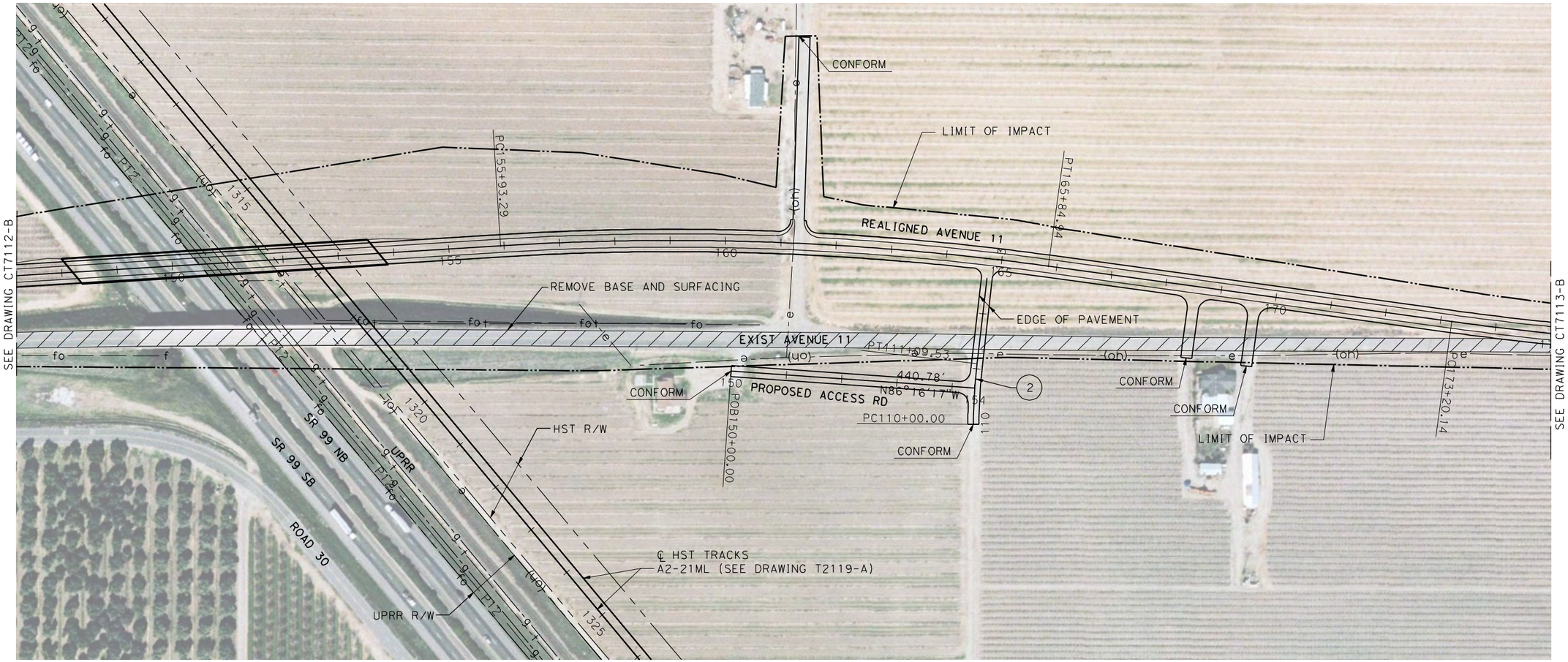
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

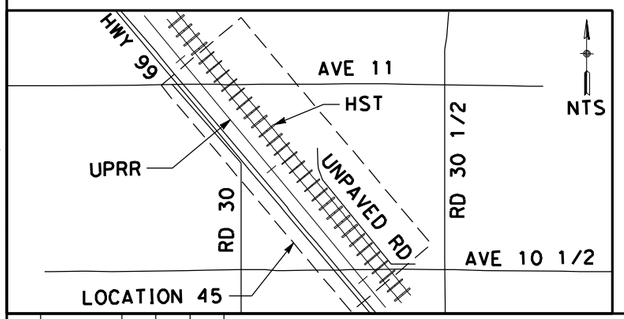
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
ROAD 30 AT AVENUE 11
LAYOUT
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CR9107-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9108-B.dgn
4/27/2011 6:57:15 PM
ReyesC1





CURVE DATA

No.	R	Δ	T	L
(2)	1000.00	83°43'28"	54.82	109.53

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
ACCESS ROAD AT AVENUE 11
LAYOUT
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CR9108-B
SCALE AS SHOWN
SHEET NO. ### OF ###

SR 99 SB

SR 99 NB

UPRR

UPRR R/W

℄ HST TRACK
A2-21ML
(SEE DRAWING T2116-A)

HST R/W

REALIGNED UNPAVED ROAD

AVENUE 13

EXIST ROAD 28

REALIGNED ROAD 28

540.13'
S40°8'39"E

PC23+22.70

PT29+36.80

LIMIT OF IMPACT

EDGE OF PAVEMENT

POC34+61.96

STA 34+68.96
CONFORM

R=60'

R=50'

PT32+42.31

PT33+99.38

MATCH LINE STA 21+00
SEE BELOW LEFT

CURVE DATA

No.	R	Δ	T	L
1	550.00	39°46'57"	199.00	381.88
2	150.00	49°51'21"	69.72	130.52
3	718.00	39°11'56"	255.66	491.22
4	700.00	50°15'54"	328.39	614.10
5	100.00	89°59'35"	99.99	157.07

SR 99 SB

SR 99 NB

UPRR

UPRR R/W

℄ HST TRACK
A2-21ML
(SEE DRAWING T2116-A)

HST R/W

EXIST S KNOX ST

REALIGNED S KNOX ST

1508.09'
S40°8'39"E

PT17+82.57

PC29+81.83

PT21+12.36

PT14+73.74

R=43'

LIMIT OF IMPACT

EDGE OF PAVEMENT

REALIGNED ROAD 28

EXIST ROAD 28

PC12+91.35

PC10+91.85

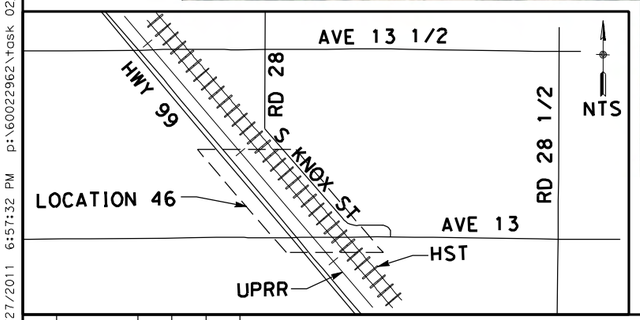
POB10+00.00

STA 10+00
CONFORM

CONFORM

AVENUE 13 /12

MATCH LINE STA 21+00
SEE ABOVE RIGHT



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

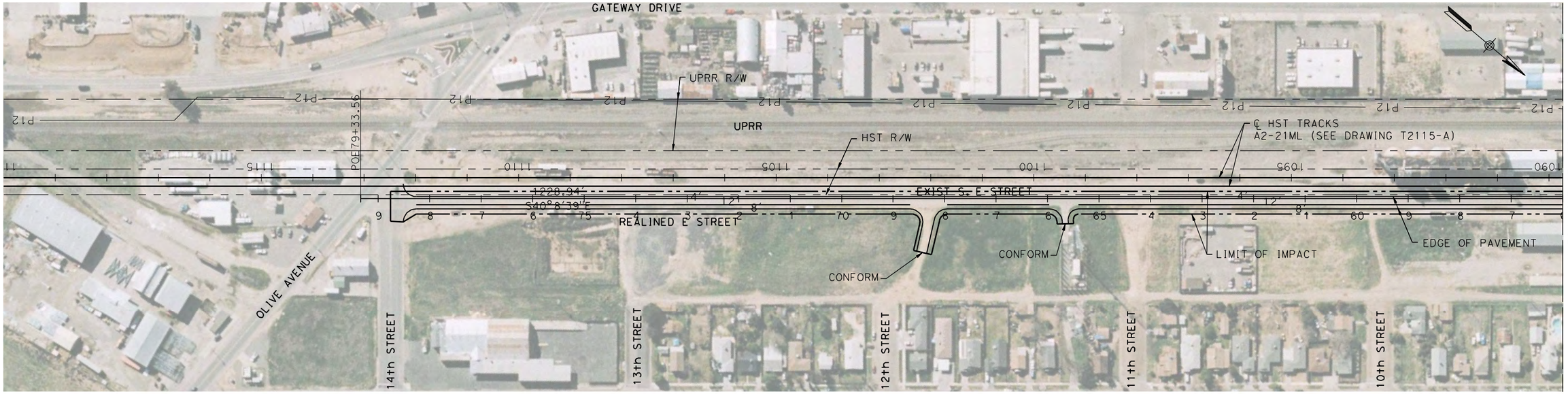
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

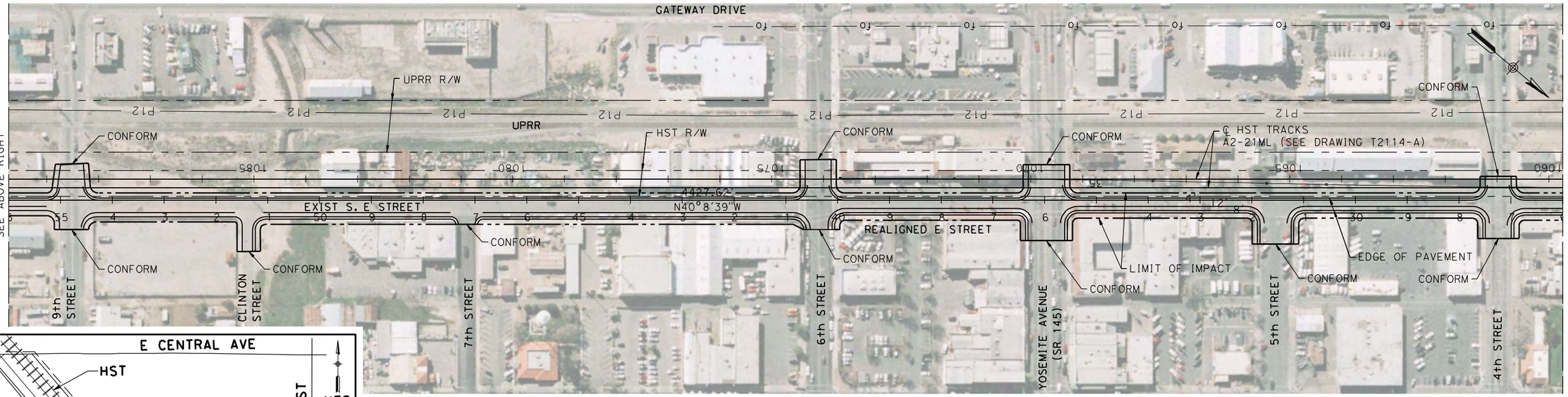
UPRR/SR99 MAINLINE - (AVE 24/WC)
S KNOX ST
LAYOUT
STA 10+00 TO STA 34+67

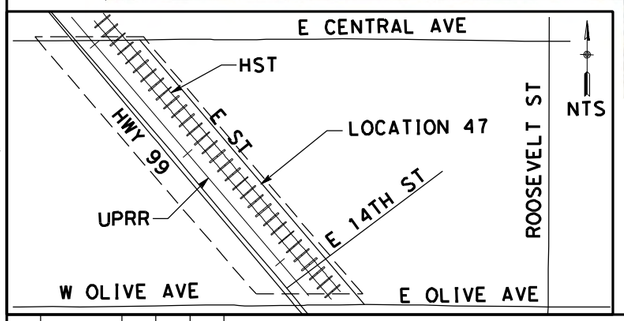
CONTRACT NO. HSR06-007
DRAWING NO. CR9109-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:57:32 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9109-B.dgn
ReyesC1

Package 2 - ave 24 wye & w. chowchilla\Volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9110-B.dgn
4/27/2011 6:57:52 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2
ReyesCI







100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24/WC)
N E ST AND S E ST
LAYOUT
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CR9110-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9111-B.dgn
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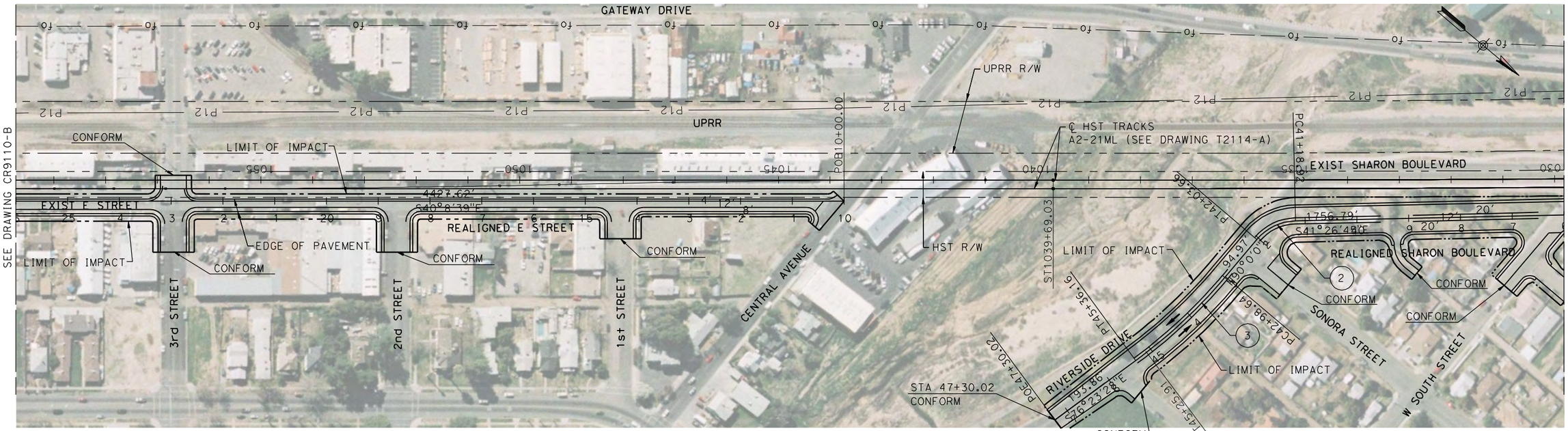
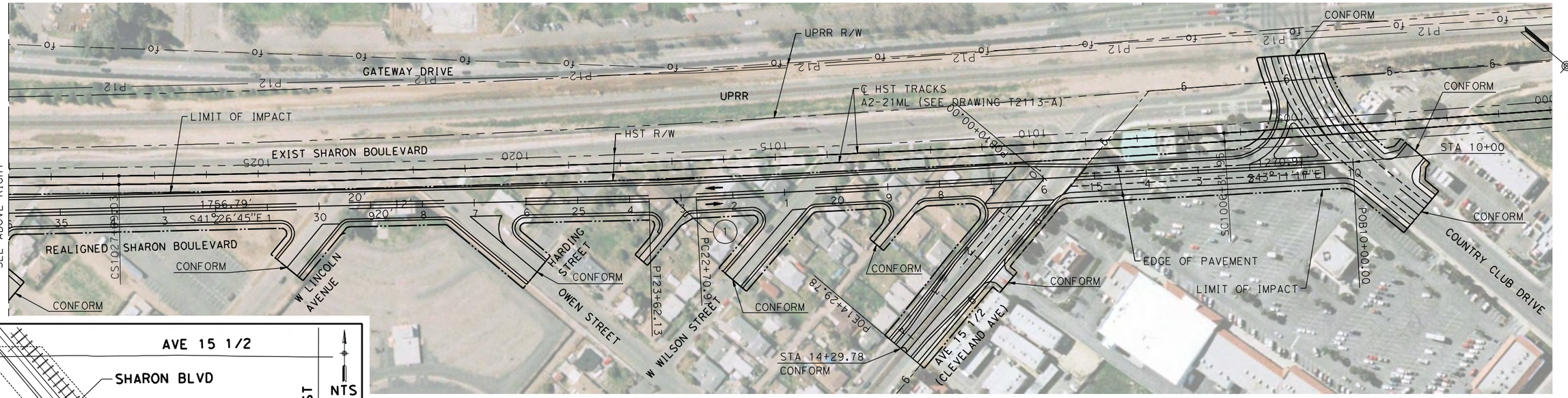
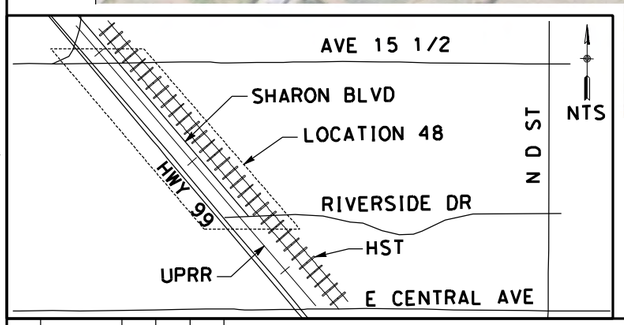
ReyesC1







CURVE DATA

No.	R	Δ	T	L
①	3000.00	01°44'32"	45.61	91.22
②	100.00	48°33'15"	45.10	84.74
③	1000.00	13°36'32"	119.32	237.52

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

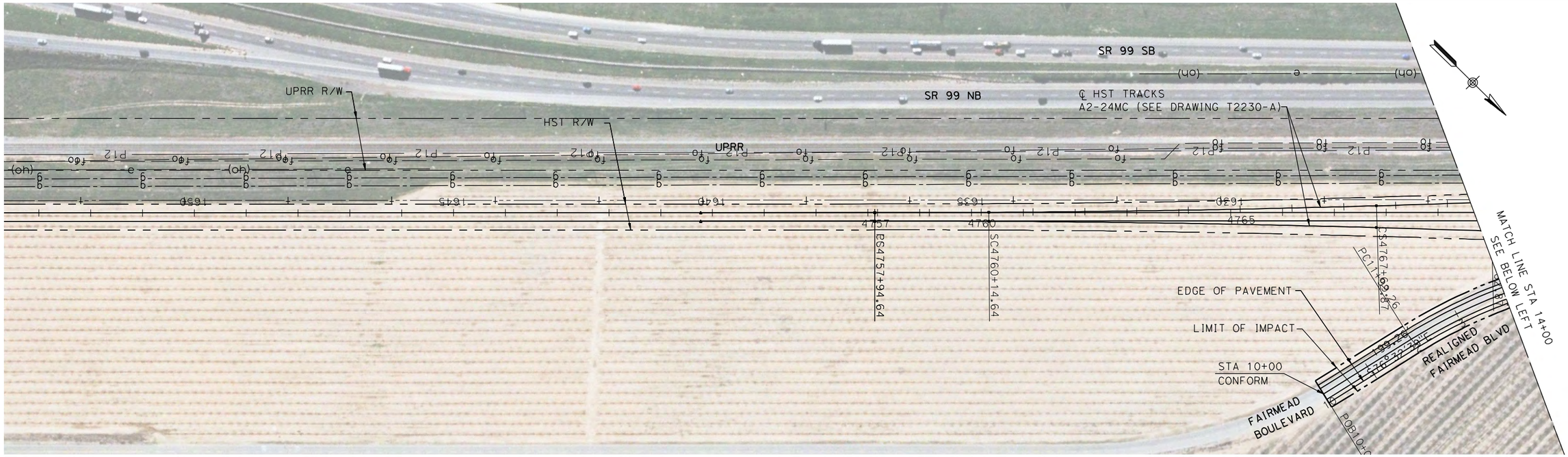
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

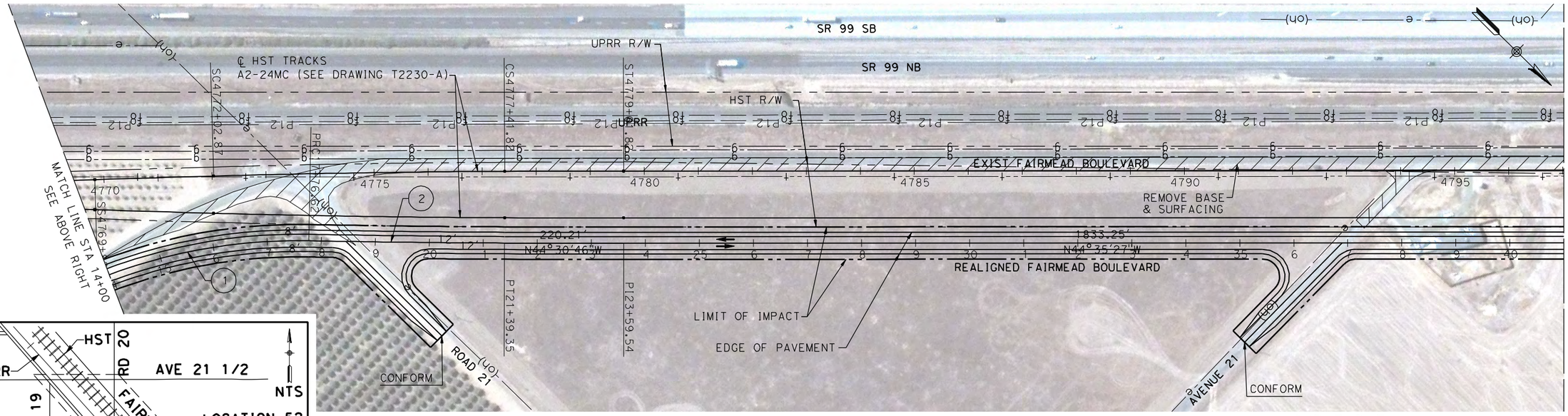
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

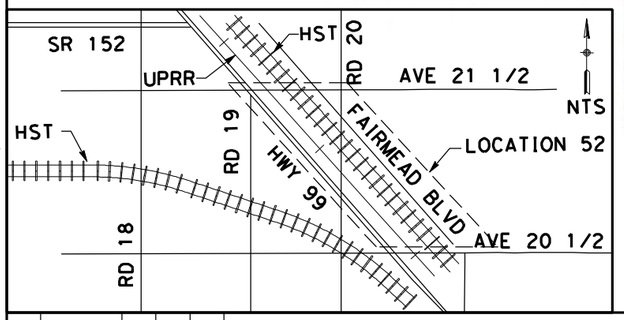
UPRR/SR99 MAINLINE - (AVE 24/WC)
SHARON BLVD & E ST
LAYOUT
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CR9111-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla local roads\Layout\CR9112-B.dgn
4/27/2011 6:58:39 PM
ReyesC1







CURVE DATA

No.	R	Δ	T	L
①	1000.00	33°04'50"	296.98	557.36
②	24039.61	0°51'52"	181.37	362.73

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

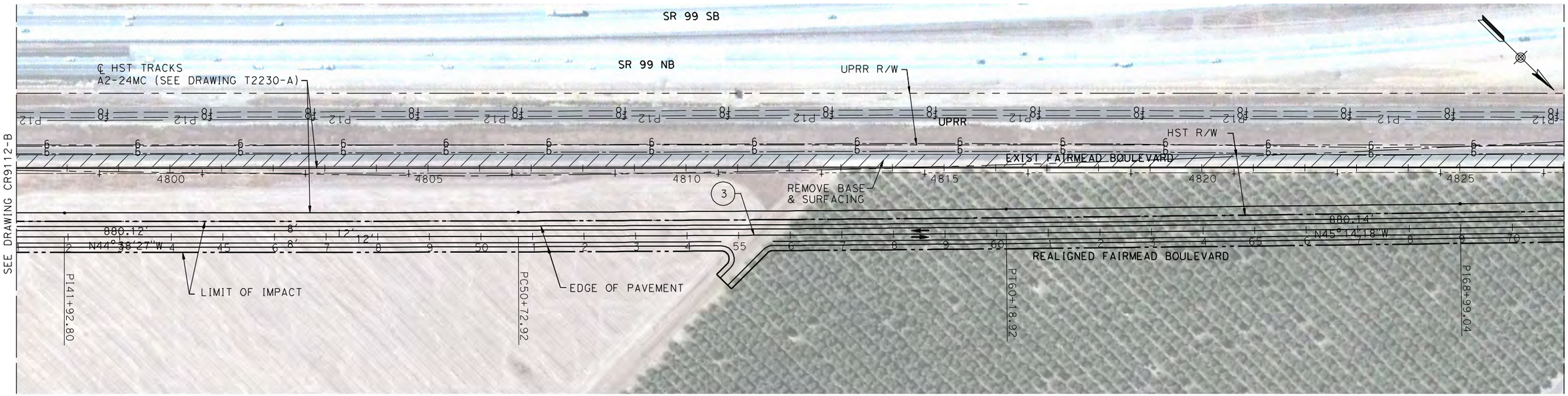
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

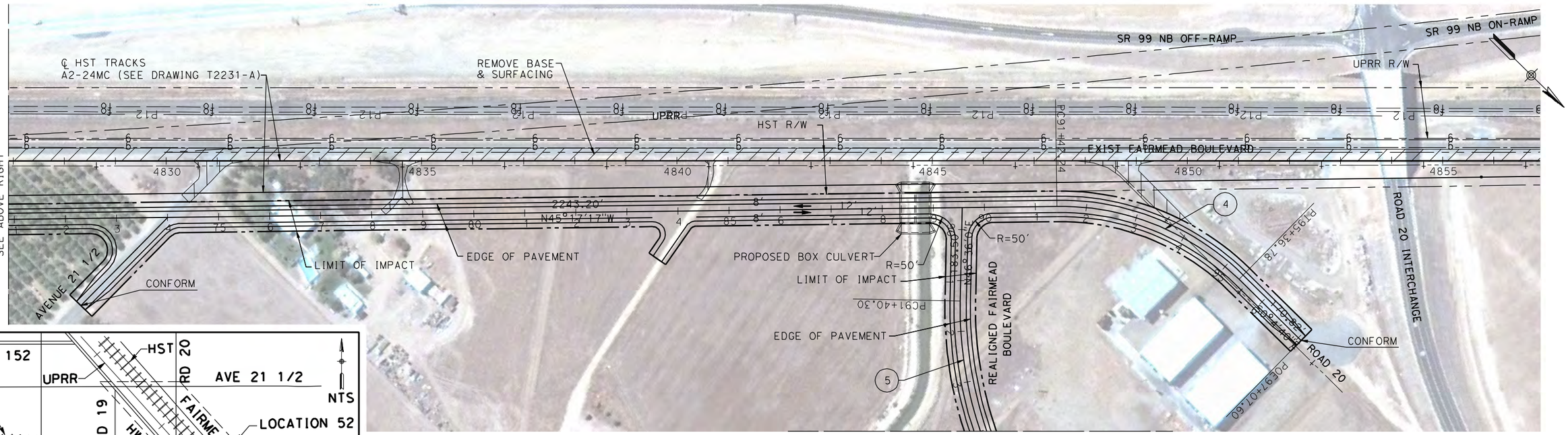
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

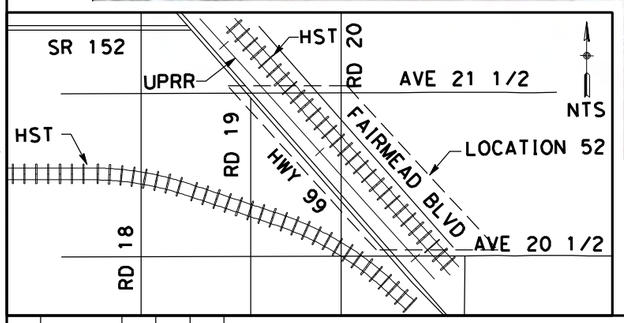
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24)
FAIRMEAD BLVD
LAYOUT
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9112-B
SCALE AS SHOWN
SHEET NO. ### OF ###







CURVE DATA

No.	R	Δ	T	L
(3)	150046.75	0°21'40"	473.00	945.99
(4)	500.00	45°12'37"	208.18	394.53
(5)	750.00	46°36'00"	323.00	609.99

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

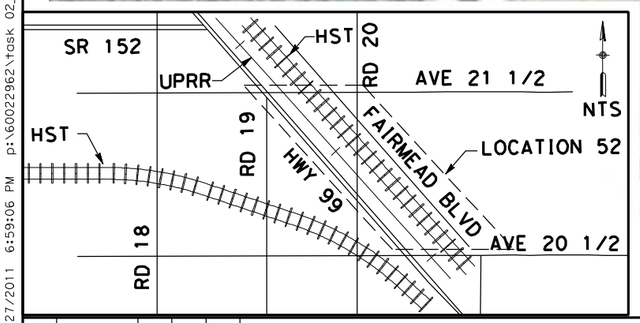
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24)
FAIRMEAD BLVD
LAYOUT
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9113-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:58:57 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9113-B.dgn ReyesC1

MATCH LINE STA 94+00
SEE DRAWING CR9113-B



CURVE DATA

No.	R	Δ	T	L
(5)	750.00	46°36'00"	323.00	609.99

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

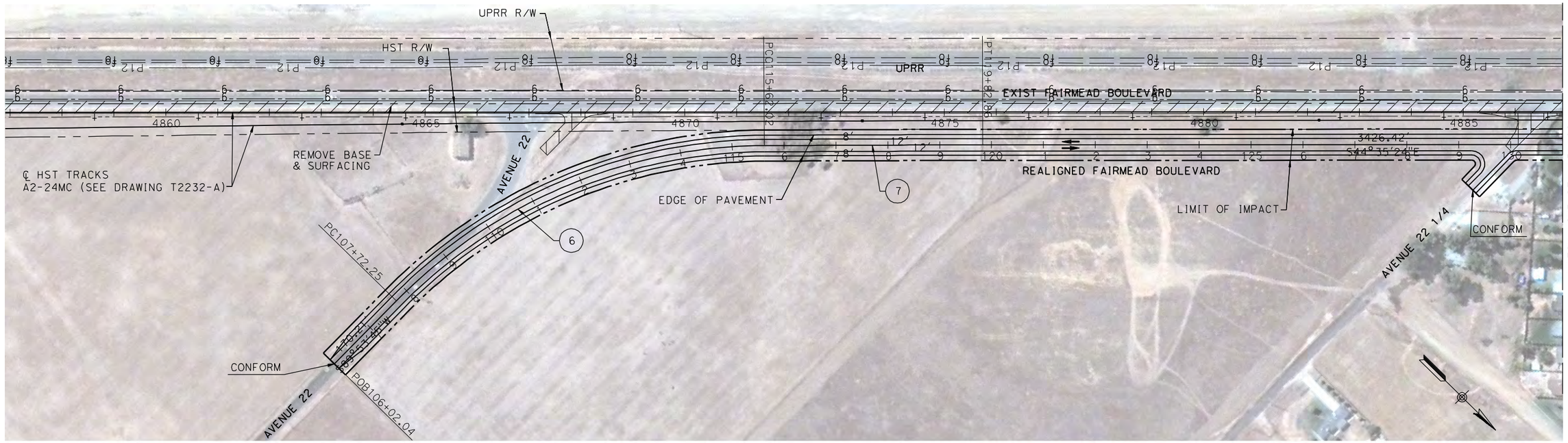
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

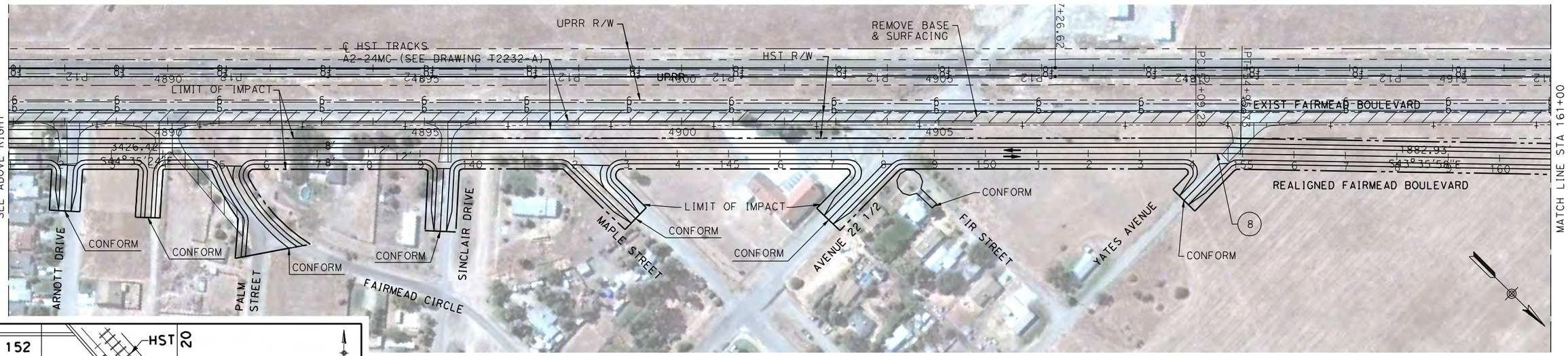
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

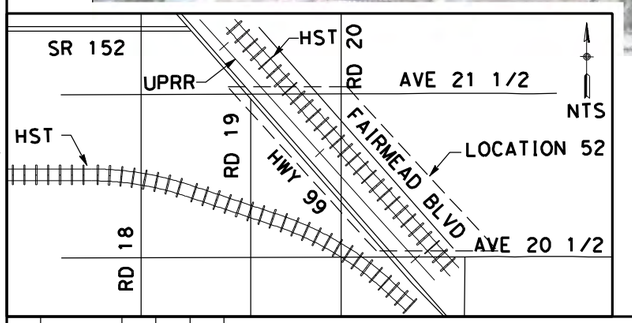
UPRR/SR99 MERCED - (AVE 24)
FAIRMEAD BLVD
LAYOUT
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9114-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:59:06 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9114-B.dgn
ReyesC1







CURVE DATA

No.	R	Δ	T	L
6	1000.00	45°15'01"	416.78	789.77
7	5000.00	0°09'39"	210.42	420.84
8	5000.00	0°59'26"	43.23	86.45

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MERCED - (AVE 24)
FAIRMEAD BLVD
LAYOUT
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9115-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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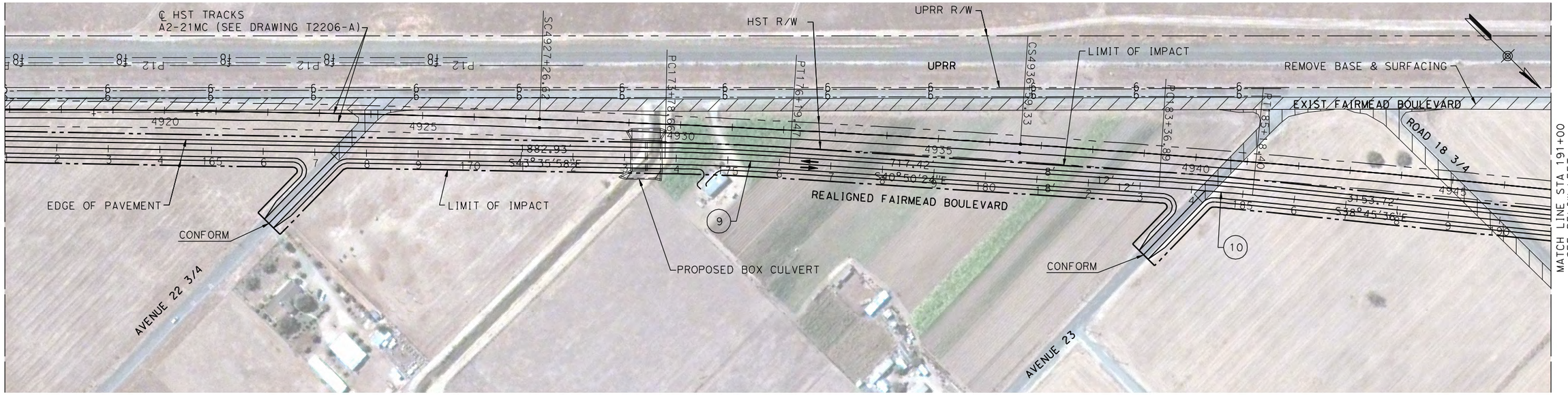
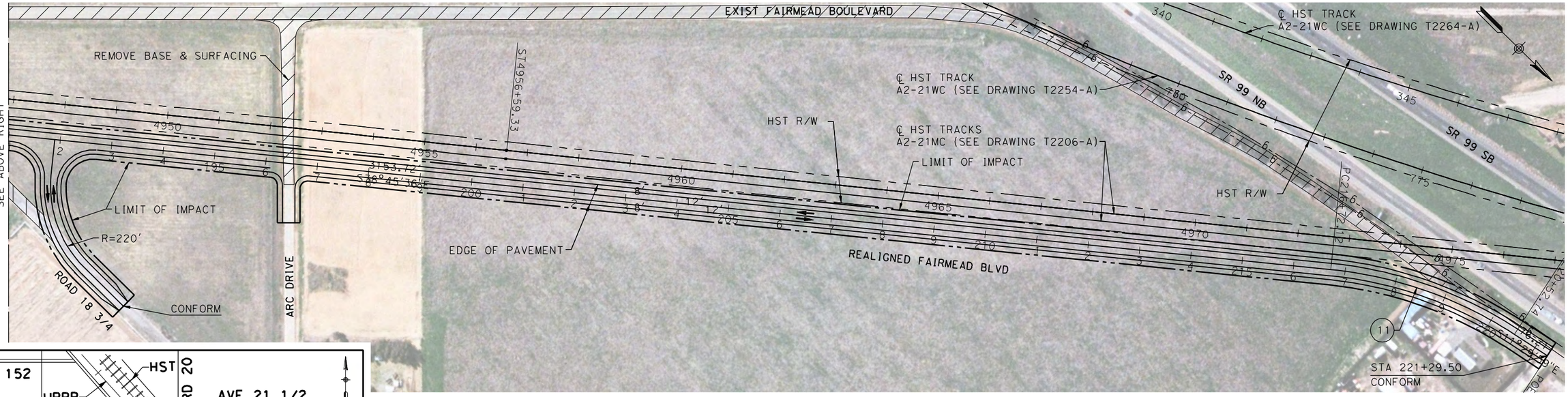
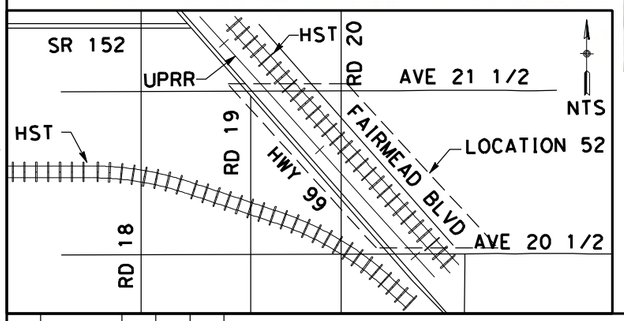
4/27/2011 6:59:22 PM ReyesC1

4/27/2011 6:59:36 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9116-B.dgn
ReyesC1







CURVE DATA

No.	R	Δ	T	L
(9)	5000.00	87°14'26"	120.43	240.81
(10)	5000.00	87°55'12"	90.76	181.51
(11)	800.00	62°44'23"	193.99	380.63

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24)
FAIRMEAD BLVD
LAYOUT
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9116-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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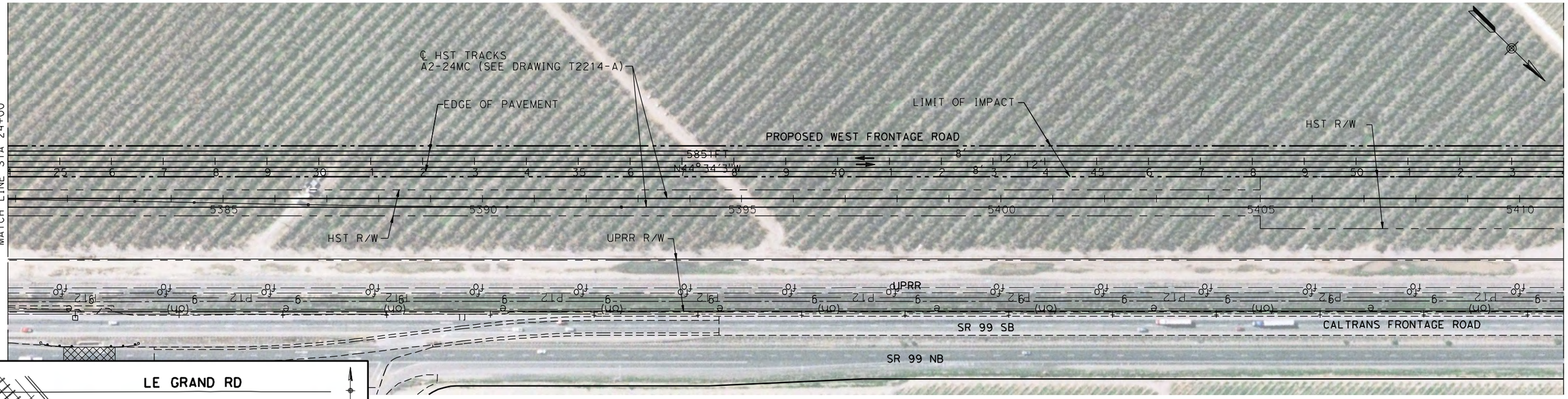
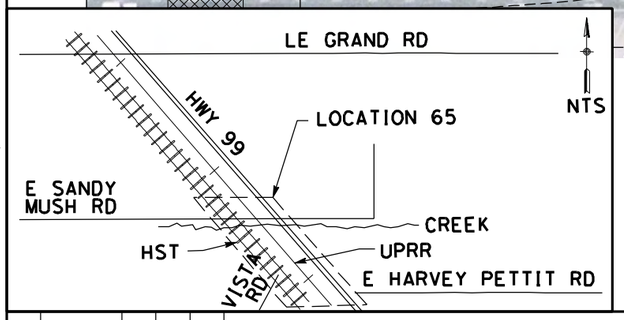
ReyesC1





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

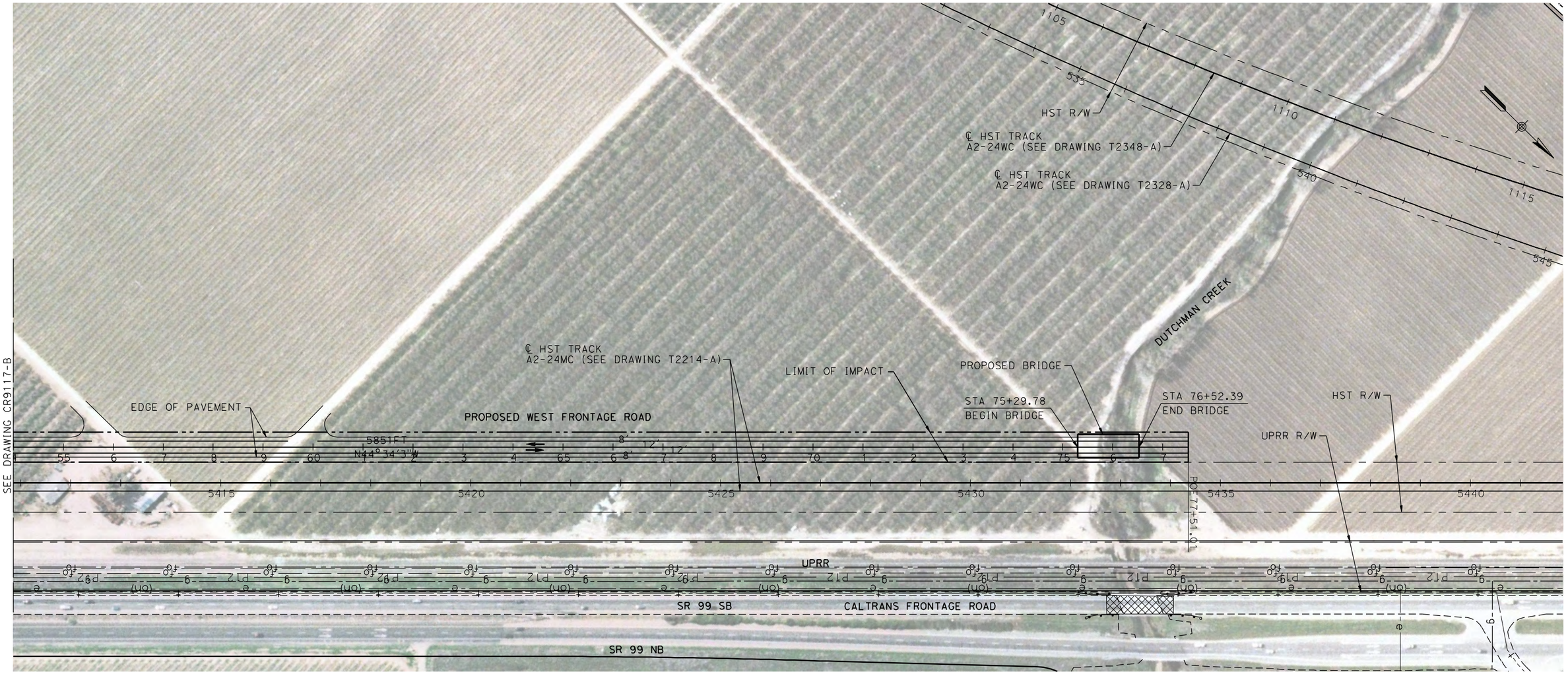
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

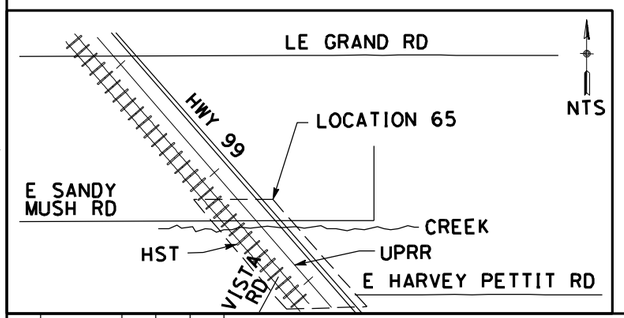
UPRR/SR99 MERCED - (AVE 24)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 18+22 TO STA 54+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9117-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9118-B.dgn
4/27/2011 7:00:12 PM
ReyesC1

MATCH LINE STA 54+00
SEE DRAWING CR9117-B





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

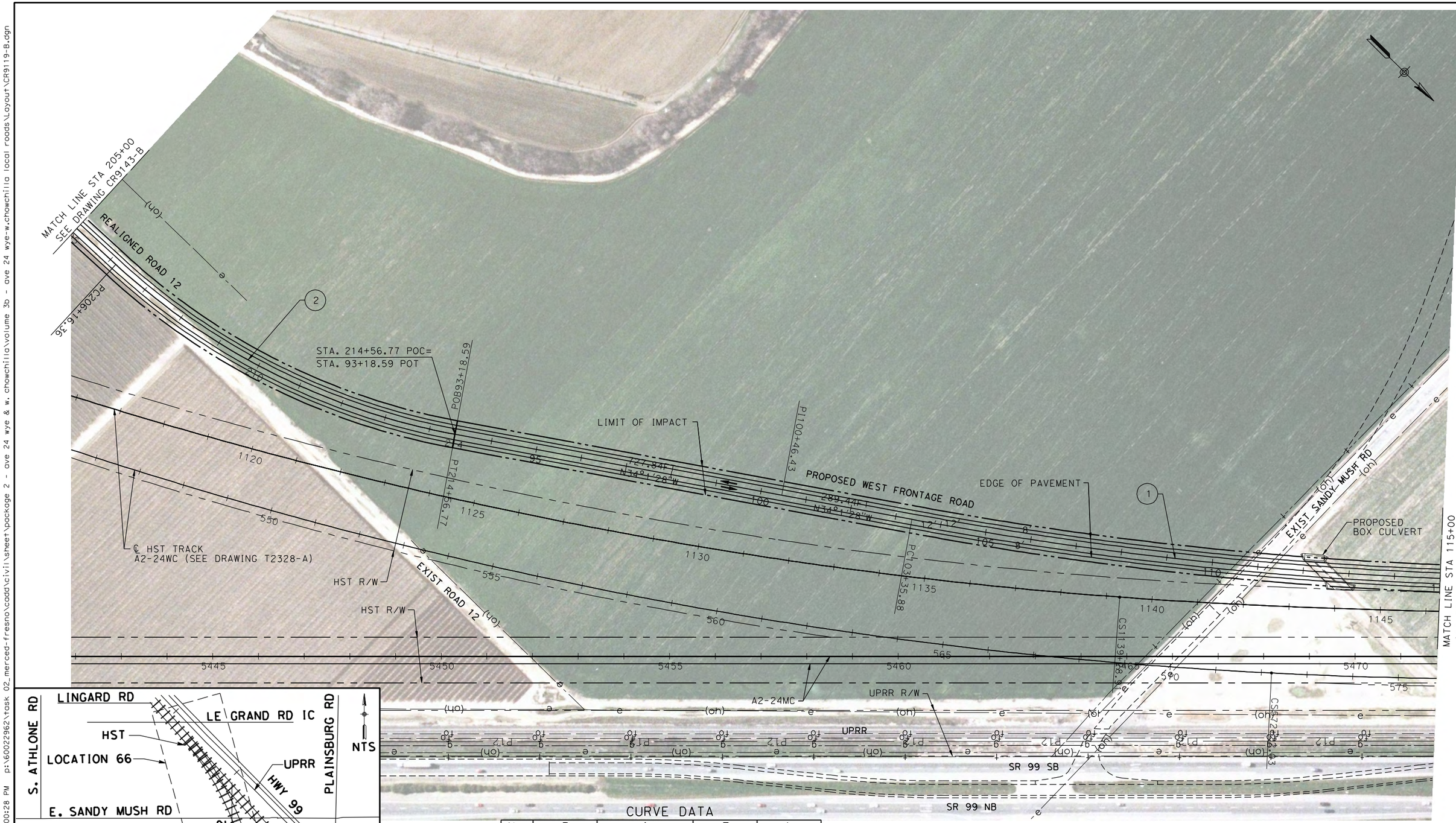
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

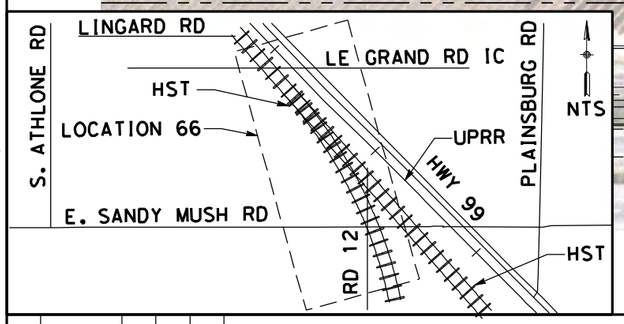
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 54+00 TO STA 77+51.01

CONTRACT NO. HSR06-007
DRAWING NO. CR9118-B
SCALE AS SHOWN
SHEET NO. ### OF ###





CURVE DATA

No.	R	Δ	T	L
(1)	8000.00	9°9'17"	640.49	1278.26
(2)	1500.00	32°6'4"	431.55	840.41

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 205+00 TO STA 115+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9119-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:00:28 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9119-B.dgn
ReyesC1

SEE DRAWING CT7120-B

CURVE DATA

No.	R	Δ	T	L
1	8000.00	9°9'17"	640.49	1278.26
2	750.00	61°06'57"	442.80	800.00
3	212.00	27°11'24"	51.27	100.61
4	212.00	12°53'42"	23.96	47.71

CONFORM
POB22+94.44
N43°10'46"W
77.95FT
N30°17'42"E

PROPOSED BOX CULVERT

PC30+77.39
543.65FT
N40°17'42"W
8' 12' 12' 8'

EXIST SANDY MUSH RD

PROPOSED SANDY MUSH RD INTERCHANGE

LIMIT OF IMPACT

℄ HST TRACK
A2-24WC (SEE DRAWING T2348-A)

℄ HST TRACK
A2-24MC (SEE DRAWING T2388-A)

℄ HST TRACK
A2-24MC (SEE DRAWING T2368-A)

R=50'

R=50'

PT38+77.40
N46°49'14"E

EDGE OF PAVEMENT

PROPOSED WEST FRONTAGE ROAD

HST R/W

3887.38FT
N43°10'46"W

POE39+54.32

PT36+20.64

PT116+14.13

MATCH LINE STA 115+00
SEE DRAWING CR9119-B

SEE DRAWING CT7121-B

MATCH LINE STA 145+00
SEE DRAWING CR9121-B

UPRR R/W

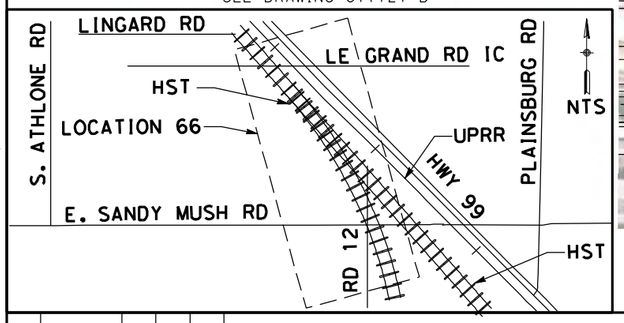
UPRR

SR 99 SB

SR 99 NB

℄ HST TRACK
A2-24WC (SEE DRAWING T2328-A)

TS605+22.57



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED - (AVE 24)
PROPOSED FRONTAGE ROAD
LAYOUT
STA 115+00 TO STA 145+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9120-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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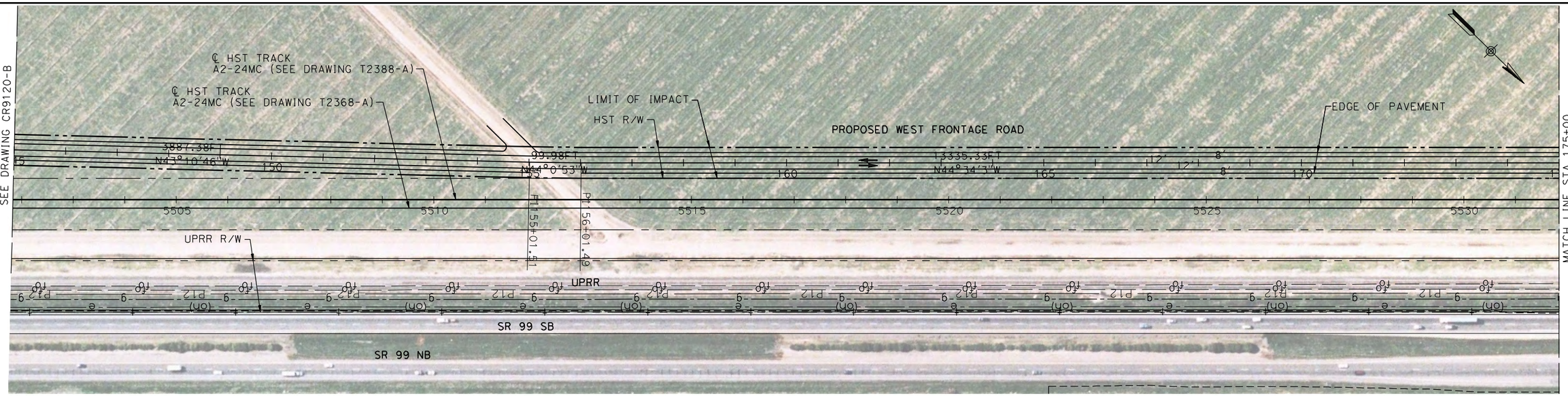

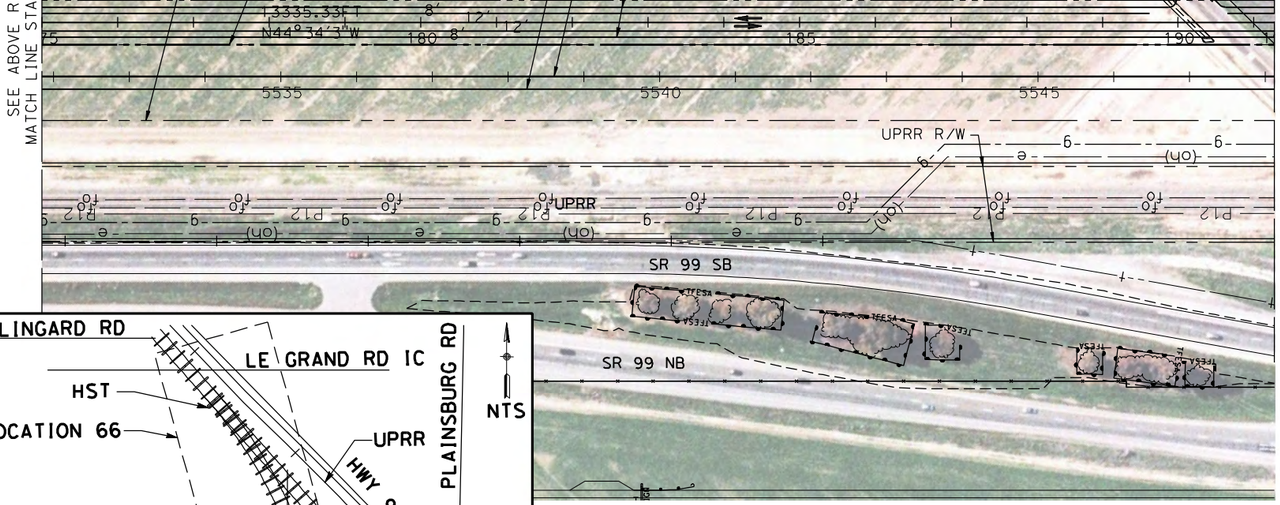

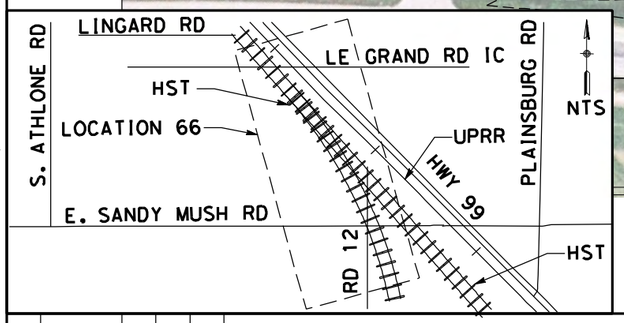

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 145+00 TO STA 191+27.40

CONTRACT NO. HSR06-007
DRAWING NO. CR9121-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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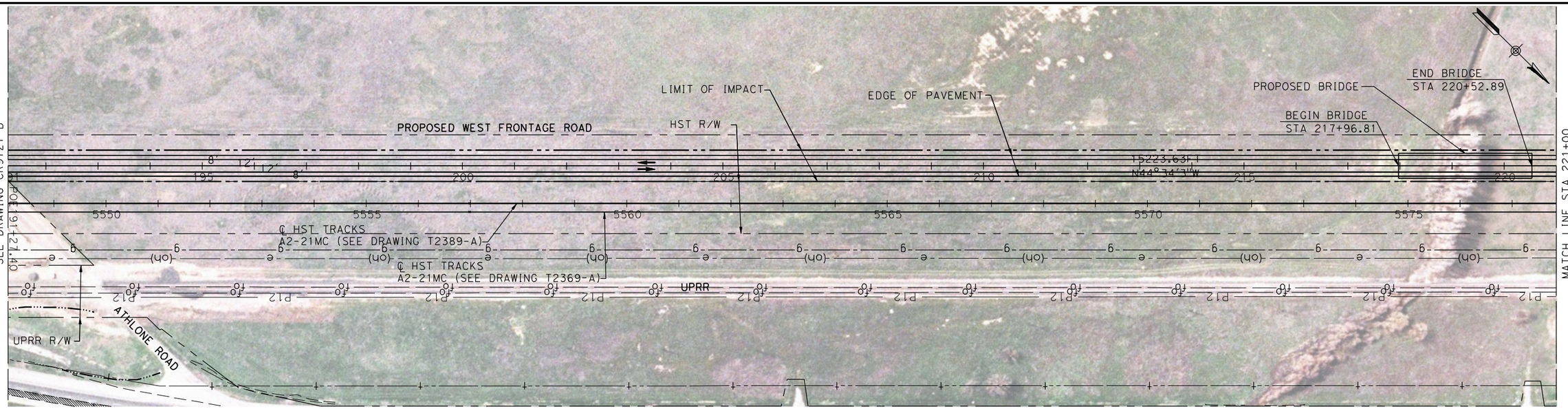
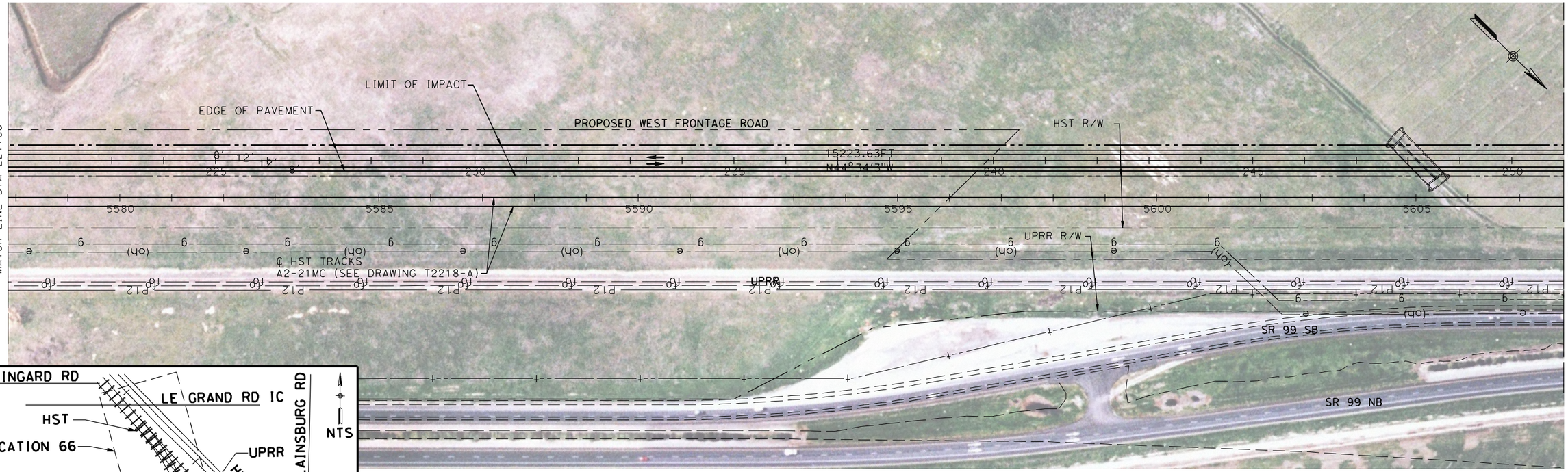
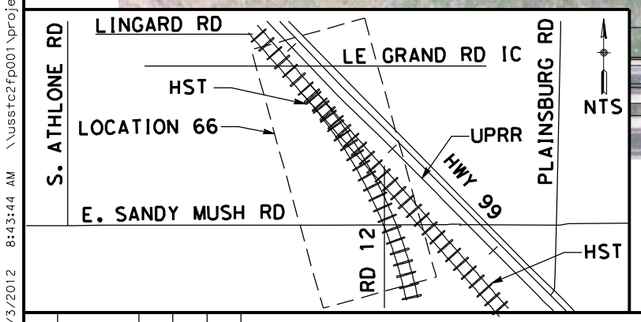






100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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

UPRR/SR99 MERCED - (AVE 24/WC)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 191+27.40 TO STA 251+00

CONTRACT NO.: HSR06-007
DRAWING NO.: CR9122-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

MATCH LINE STA 251+00
SEE DRAWING CR9122-B

LIMIT OF IMPACT

HST R/W

EDGE OF PAVEMENT

PROPOSED WEST FRONTAGE ROAD

8' 12' 12' 8'

℄ 5223.63'
N44°34'3"W

℄ HST TRACKS
A2-21MC (SEE DRAWING T2218-A)

UPRR R/W

UPRR

SR 99 SB

MATCH LINE STA 281+00
SEE BELOW LEFT

SEE DRAWING CT7125-B

SEE DRAWING CT7124-B

PROPOSED BOX CULVERT

PROPOSED LE GRAND ROAD INTERCHANGE

EXIST RANCH ROAD

LIMIT OF IMPACT

R=50'

R=50'

SEE ABOVE RIGHT
MATCH LINE STA 281+00

P1287+09.96

EDGE OF PAVEMENT

LIMIT OF IMPACT

HST R/W

PROPOSED WEST FRONTAGE ROAD

8' 12' 12' 8'

℄ 5223.63'
N44°34'3"W

POE 102+32.89

℄ HST TRACKS
A2-21MC (SEE DRAWING T2219-A)

UPRR R/W

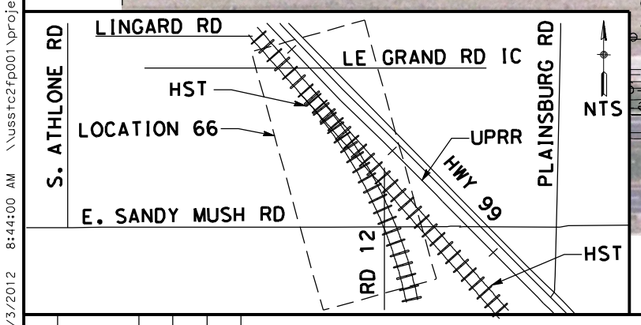
UPRR

SR 99 SB

SR 99 NB

SEE DRAWING CT7125-B

MATCH LINE STA 311+00
SEE DRAWING CR9124-B



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 MERCED - (AVE 24/WC)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 251+00 TO STA 311+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9123-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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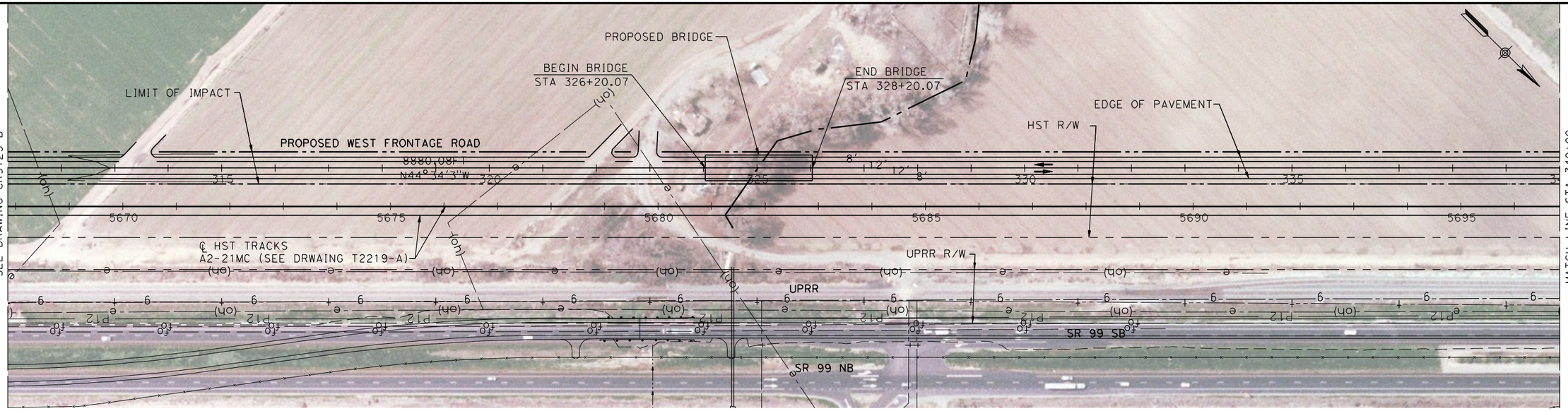
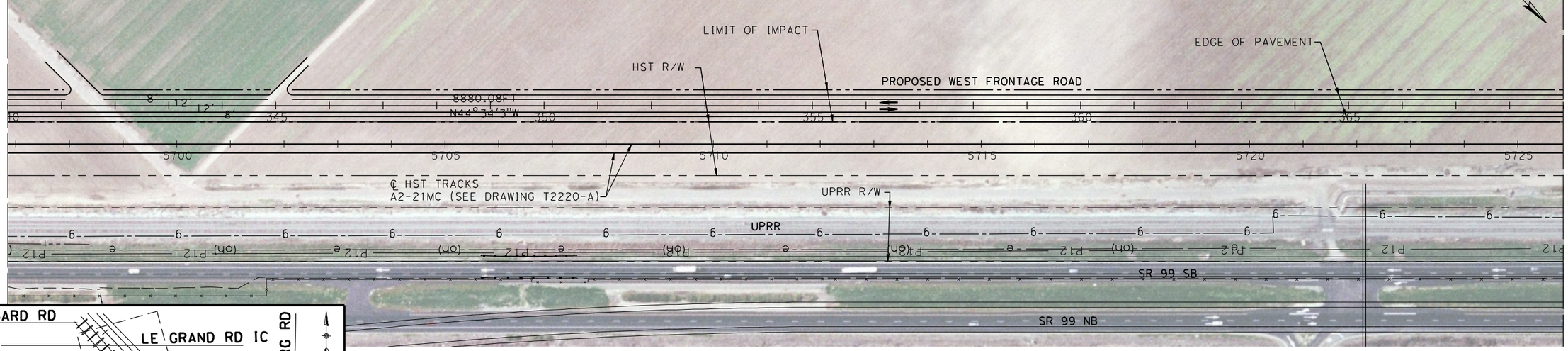
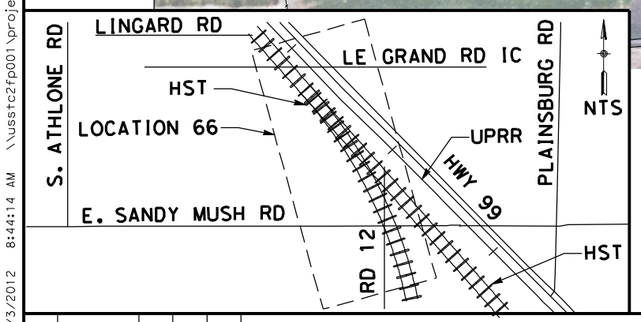






100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

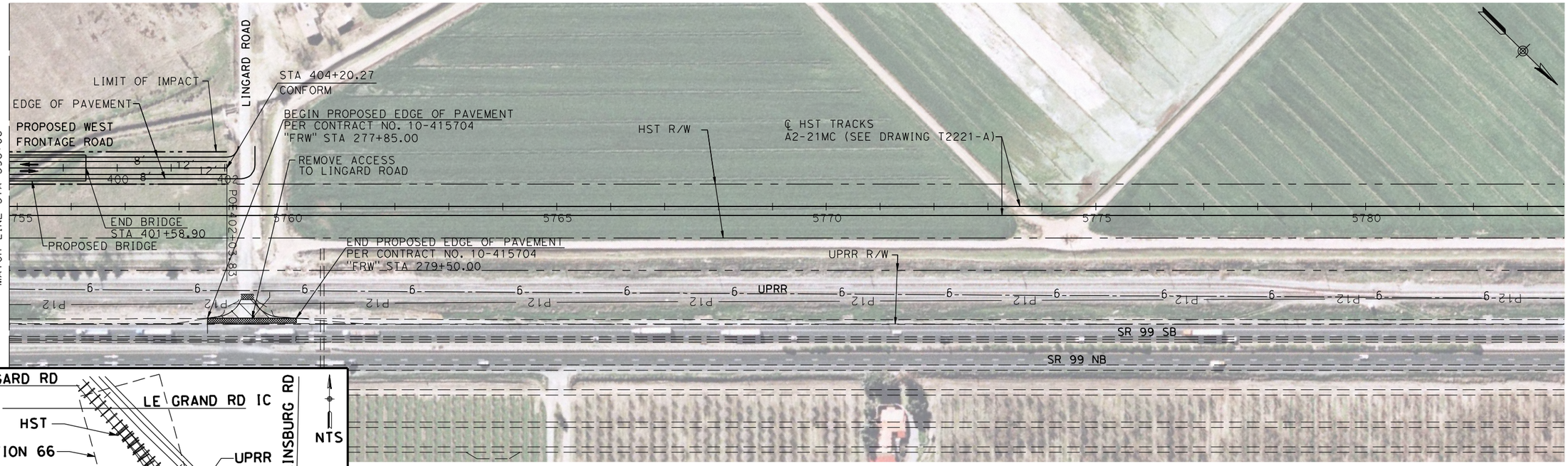
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

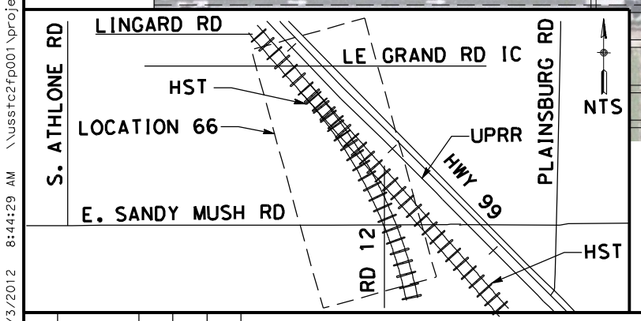
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 311+00 TO STA 369+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9124-B
SCALE AS SHOWN
SHEET NO. ### OF ###





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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

UPRR/SR99 MERCED - (AVE 24/WC)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 369+00 TO STA 404+20.27

CONTRACT NO. HSR06-007
DRAWING NO. CR9125-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9126-B.dgn
4/27/2011 7:02:45 PM
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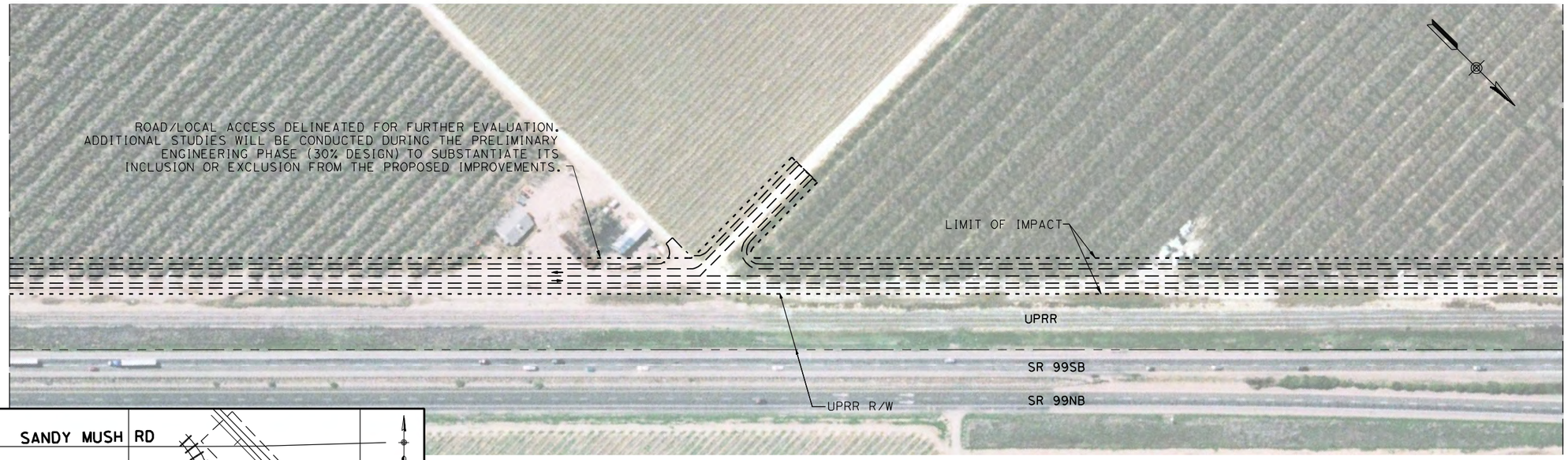
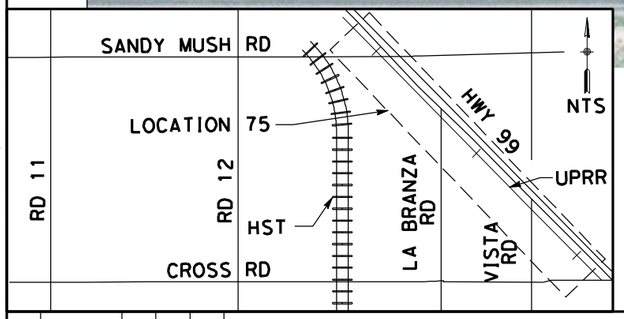




100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - WEST FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9126-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9127-B.dgn
4/27/2011 7:03:01 PM
ReyesC1

SEE DRAWING CR9126-B

DUTCHMAN CREEK

LIMIT OF IMPACT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

SEE BELOW LEFT

UPRR R/W

UPRR

SR 99SB

SR 99NB

SEE DRAWING CT7136-B

SEE ABOVE RIGHT

LIMIT OF IMPACT

EXIST SANDY MUSH RD (TO REMAIN OPEN DURING CONSTRUCTION)

LIMIT OF IMPACT

SANDY MUSH ROAD REALIGNED

UPRR R/W

UPRR

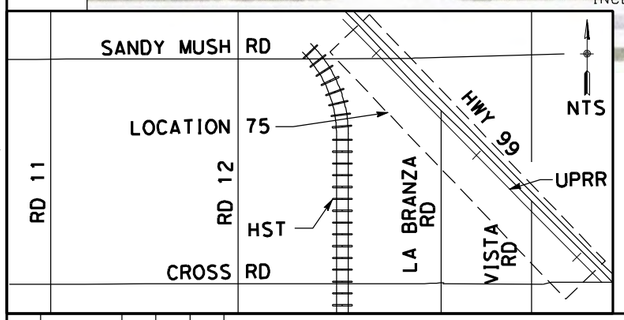
SR 99SB

SR 99NB

LIMIT OF IMPACT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

SEE DRAWING CT7136-B



100 0 100 200

H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - WEST FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9127-B
SCALE AS SHOWN
SHEET NO. ### OF ###

\\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 -

MATCH LINE STA 130+00
SEE DRAWING CR9152-B

PROPOSED WEST FRONTAGE ROAD

LIMIT OF IMPACT

EDGE OF PAVEMENT

8' 12' 12' 8'

2381.38'
N0°52'50"W

130 135 140 145 150

PC149+00.54

MATCH LINE STA 151+00
SEE BELOW LEFT

HST R/W

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2388-A)

℄ HST TRACK
A2-24MCDO
(SEE DRAWING
T2368-A)

SEE ABOVE RIGHT
MATCH LINE STA 151+00

EDGE OF PAVEMENT

PROPOSED WEST FRONTAGE ROAD

LIMIT OF IMPACT

8' 12' 12' 8'

2677.70'
N0°52'50"W

155 160 165 170 175 180

PT 55+17.04

5510 5515 5520 5525 5530 5535 5538+97.18

CS5538+91.21

MATCH LINE STA 181+00
SEE DRAWING CR9129-B

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2389-A)

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2369-A)

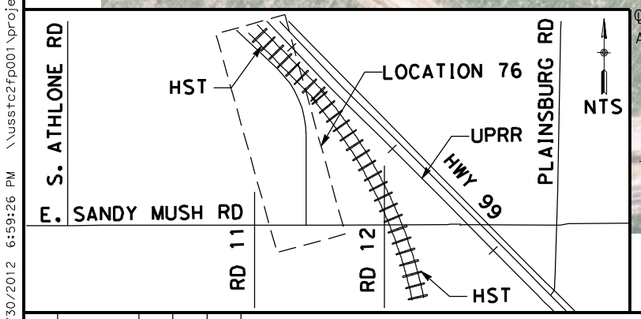
HST R/W

UPRR R/W

UPRR

SR 99 SB

SR 99 NB



CURVE DATA

No.	R	Δ	T	L
(1)	1150.00	51°18'47"	403.71	776.50

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - WEST FRONTAGE ROAD
LAYOUT
STA 130+00 TO STA 181+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9128-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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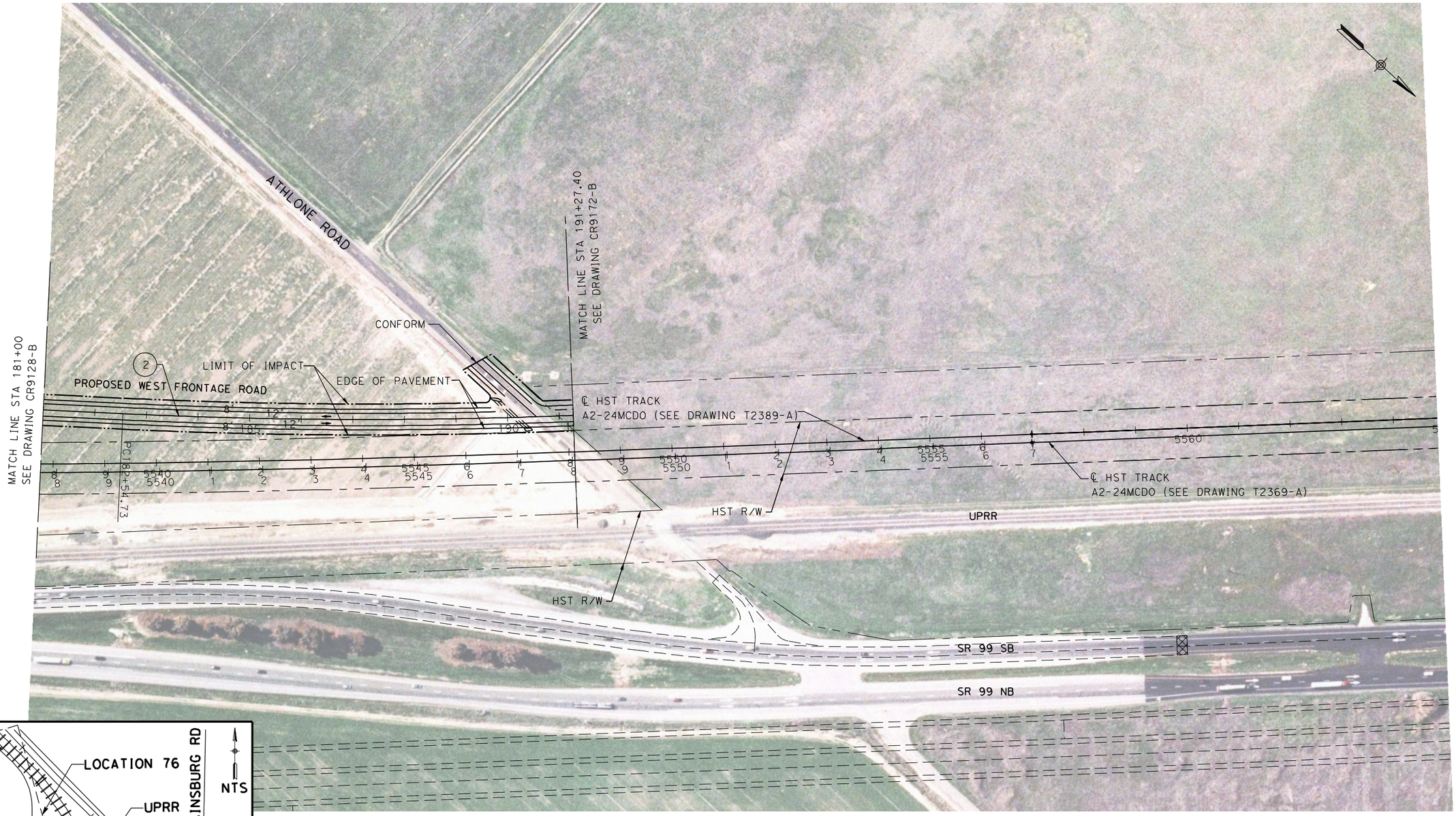

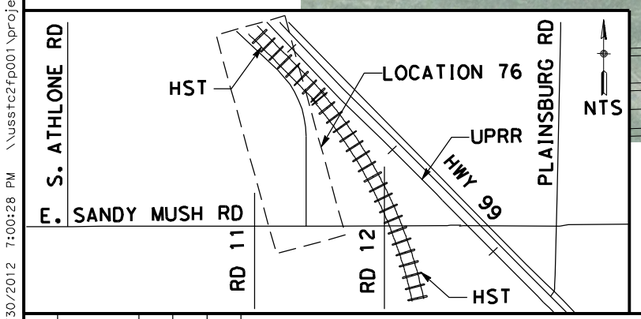

CURVE DATA

No.	R	Δ	T	L
(2)	10000.00	85°0'0"	436.61	872.66

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - WEST FRONTAGE ROAD
LAYOUT
STA 181+00 TO STA 191+27.40

CONTRACT NO. HSR06-007
DRAWING NO. CR9129-B
SCALE AS SHOWN
SHEET NO. ### OF ###

USER=ReyesC1 3/30/2012 7:00:28 PM \\ussfc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 -

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9130-B.dgn
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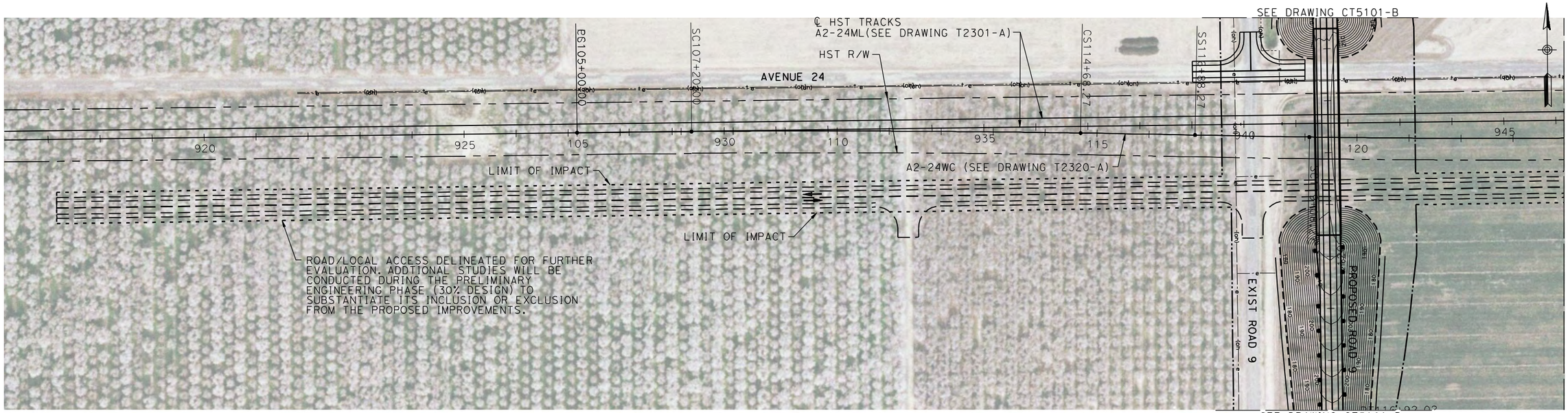
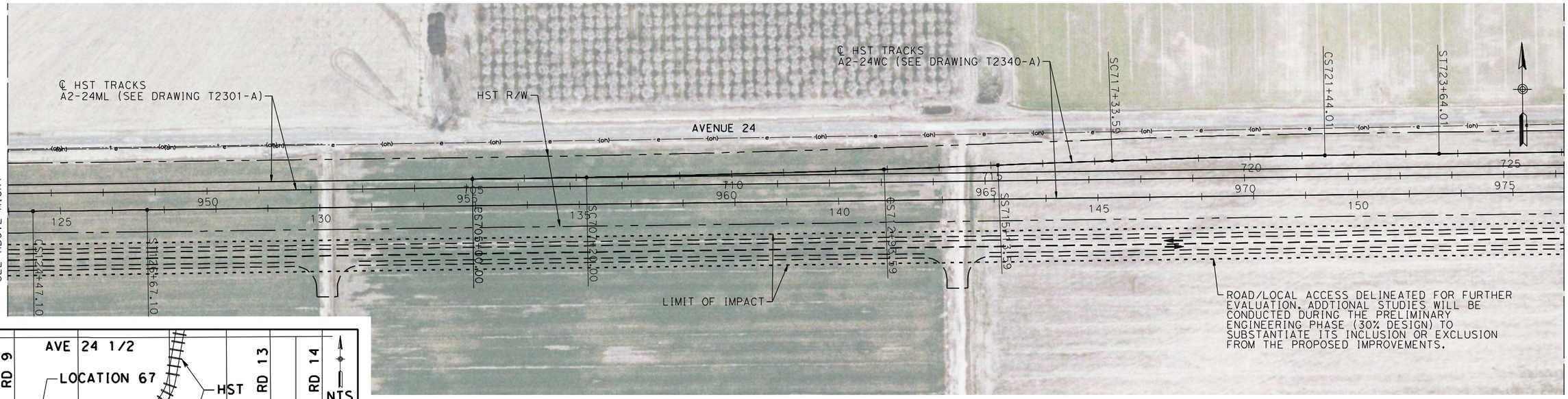
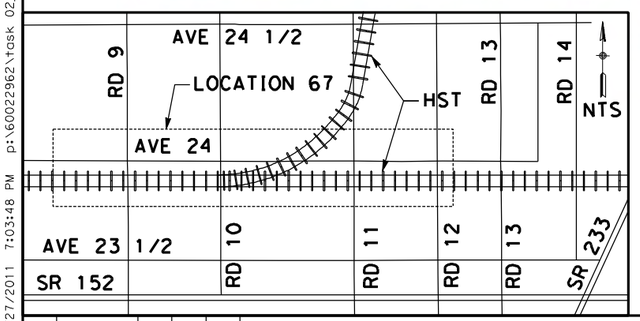






100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

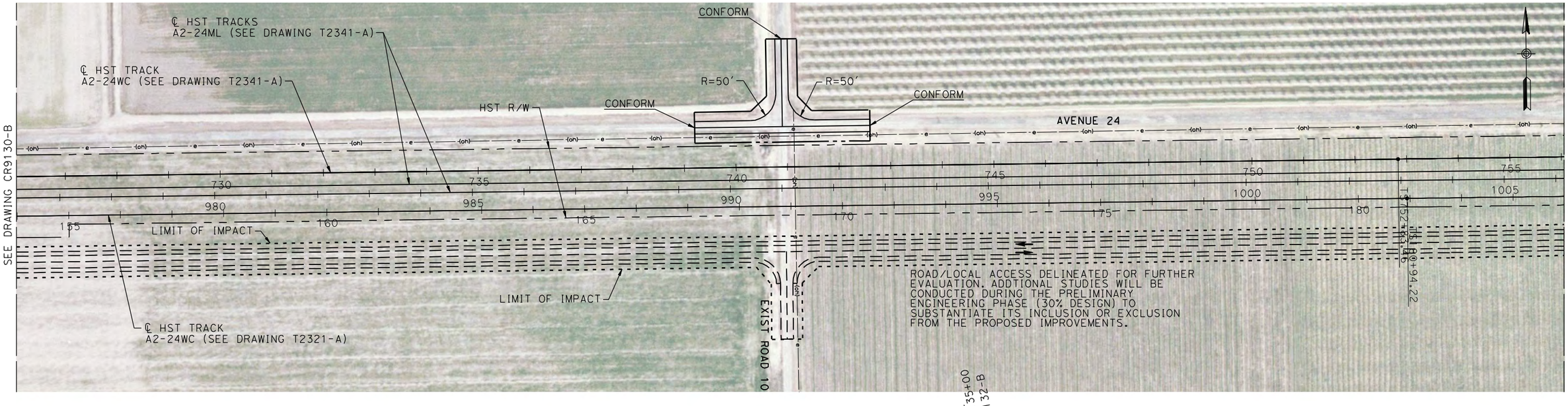
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

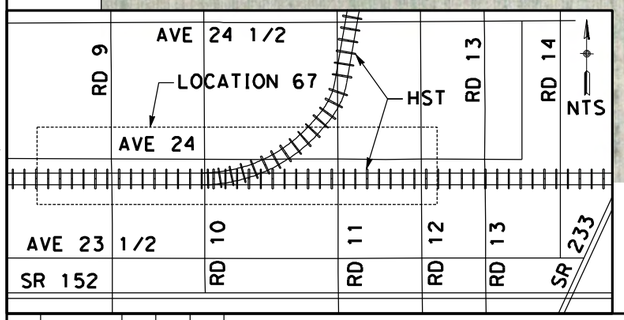
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24/WC)
SOUTH FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9130-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla local roads\Layout\CR9131-B.dgn
4/27/2011 7:04:03 PM ReyesC1





CURVE DATA

No.	R	Δ	T	L
(1)	7500.00	18°41'5"	1233.88	2445.84

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

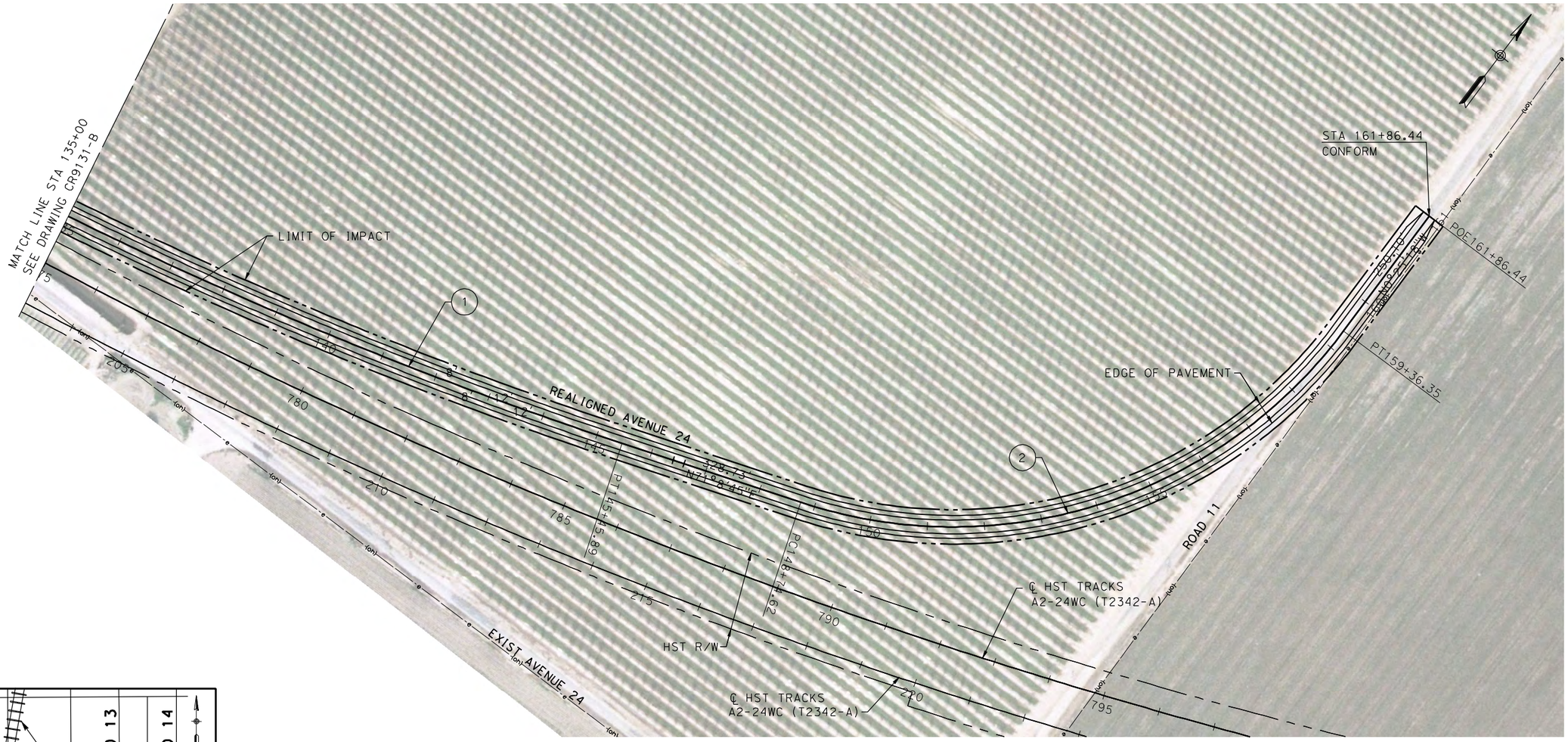
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

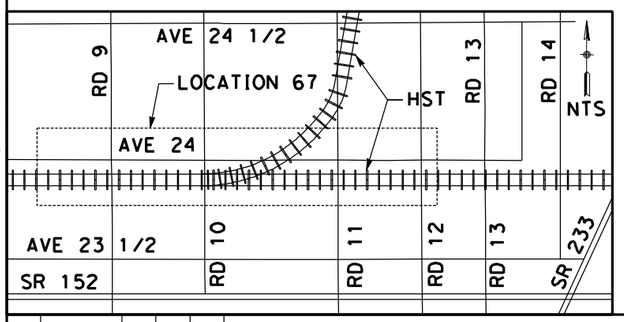
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE - (AVE 24)
SOUTH FRONTAGE ROAD
LAYOUT
STA 120+00 TO 135+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9131-B
SCALE AS SHOWN
SHEET NO. ### OF ###





CURVE DATA

No.	R	Δ	T	L
(1)	7500.02	18°41'5"	1233.88	2445.84
(2)	850.00	71°34'4"	612.68	1061.73

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

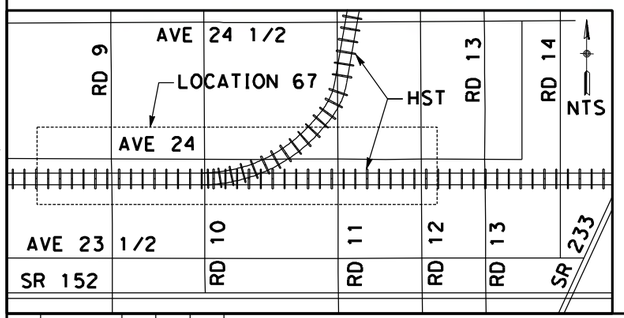
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
SOUTH FRONTAGE ROAD AVENUE 24
LAYOUT
STA 135+00 TO STA 161+86.44

CONTRACT NO. HSR06-007
DRAWING NO. CR9132-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:04:17 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9132-B.dgn ReyesCl



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
SOUTH FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9133-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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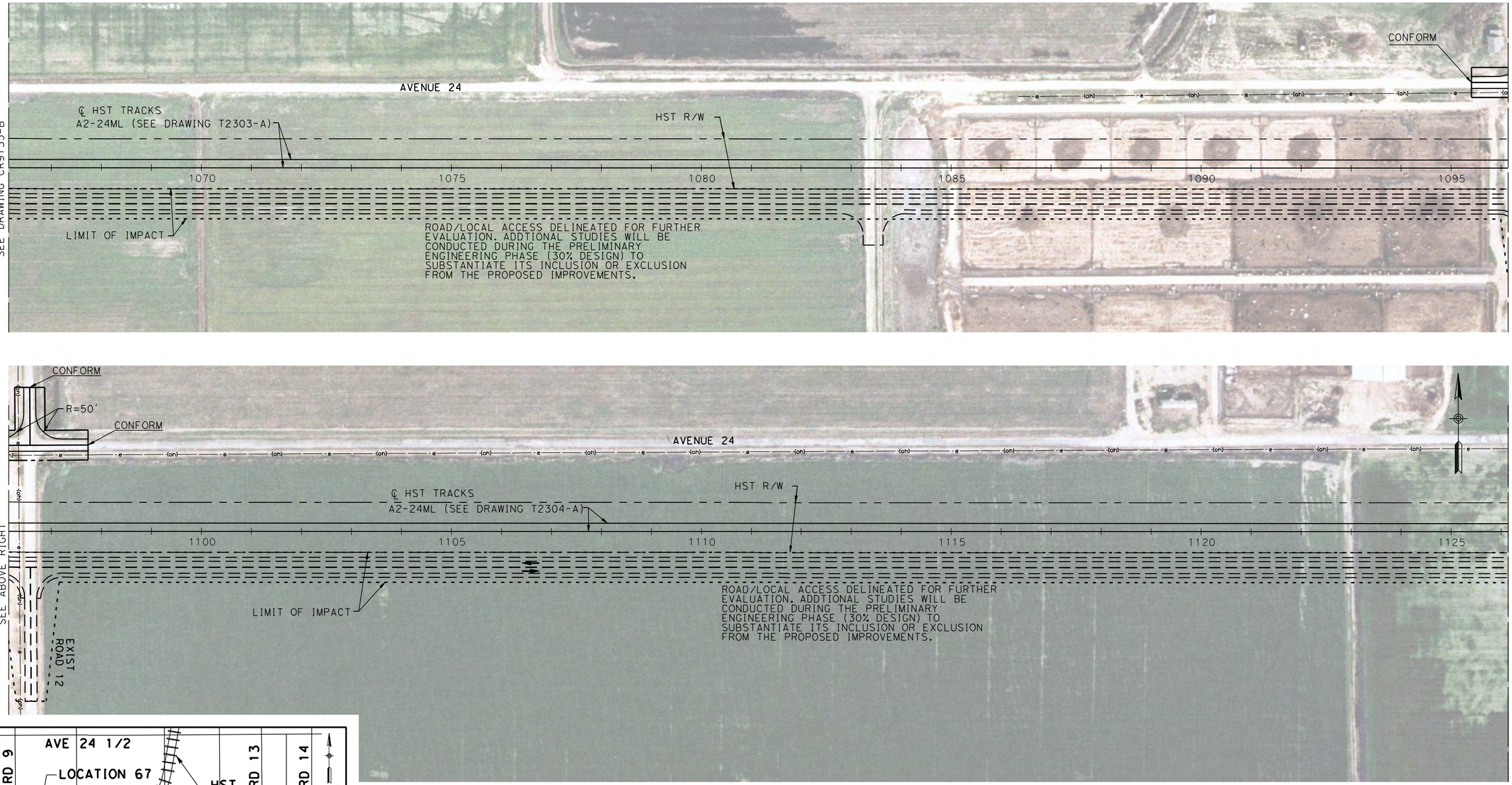
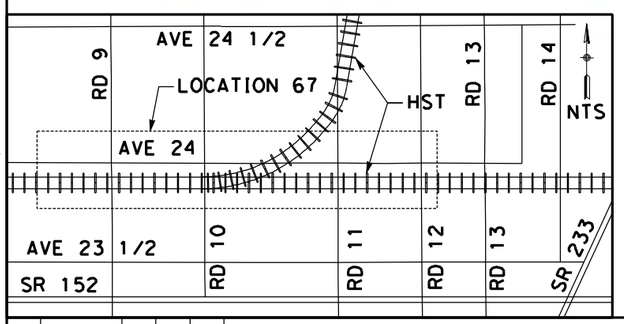
ReyesC1





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
SOUTH FRONTAGE ROAD AVENUE 24
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9134-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9135-B.dgn
4/27/2011 7:04:57 PM
ReyesC1

SEE DRAWING CT5105-B

AVENUE 24

℄ HST TRACKS
A2-24ML (SEE DRAWING T2304-A)

HST R/W

LIMIT OF IMPACT

LIMIT OF IMPACT

LIMIT OF IMPACT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDTIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

EXIST ROAD 13

RE-ALIGNED ROAD 13

LIMIT OF IMPACT

PROPOSED SOUTH FRONTAGE ROAD
EDGE OF PAVEMENT

LIMIT OF IMPACT

1130 1135 1140 1145 1150 1155

8' 12' 12' 8'

4150.28'
S89°55'38"E

335

SEE DRAWING CR9134-B

MATCH LINE STA 339+00
SEE BELOW LEFT

SEE DRAWING CT5105-B

LIMIT OF IMPACT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDTIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

AVENUE 24

HST R/W

℄ HST TRACKS
A2-24ML (SEE DRAWING T2305)

LIMIT OF IMPACT

1160 1165 1170 1175 1180 1185

8' 8' 12' 12'

340 345 350 355 360 365

4150.28'
S89°55'38"E

LIMIT OF IMPACT

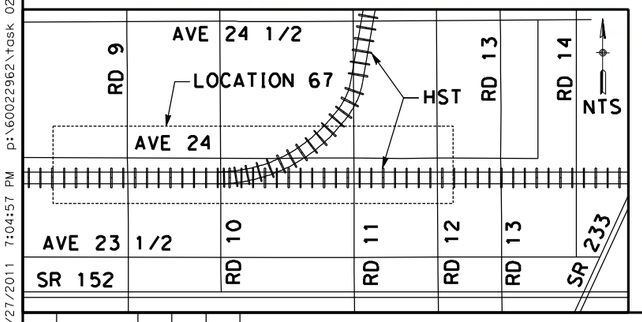
EDGE OF PAVEMENT

PROPOSED SOUTH FRONTAGE ROAD

LIMIT OF IMPACT

MATCH LINE STA 339+00
SEE ABOVE RIGHT

MATCH LINE STA 369+00
SEE DRAWING CR9136-B



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

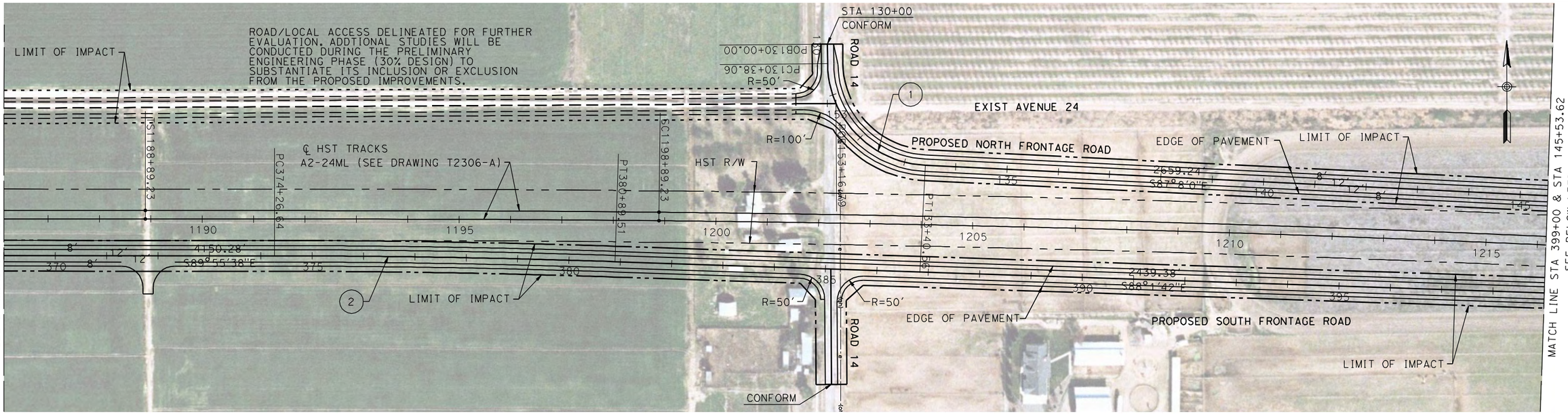
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

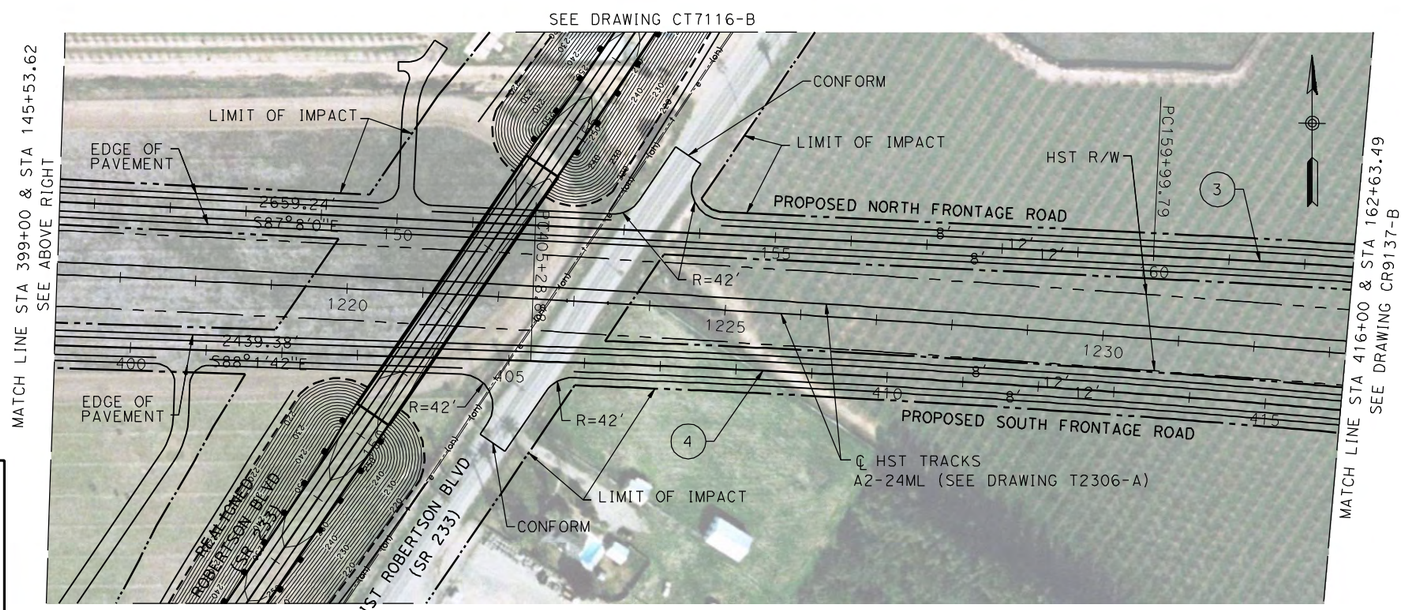
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

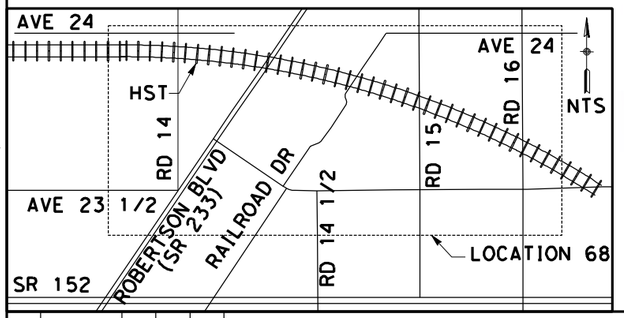
UPRR/SR99 MAINLINE - (AVE 24)
NORTH & SOUTH FRONTAGE ROAD
LAYOUT
STA 332+76.37 TO STA 369+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9135-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9136-B.dgn
4/27/2011 7:05:10 PM
ReyesC1







CURVE DATA

No.	R	Δ	T	L
(1)	200.00	86°39'30"	188.66	302.49
(2)	20000.04	1°53'56"	331.46	662.87
(3)	20000.04	4°48'23"	839.37	1677.76
(4)	20000.04	4°10'55"	730.20	1459.76

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

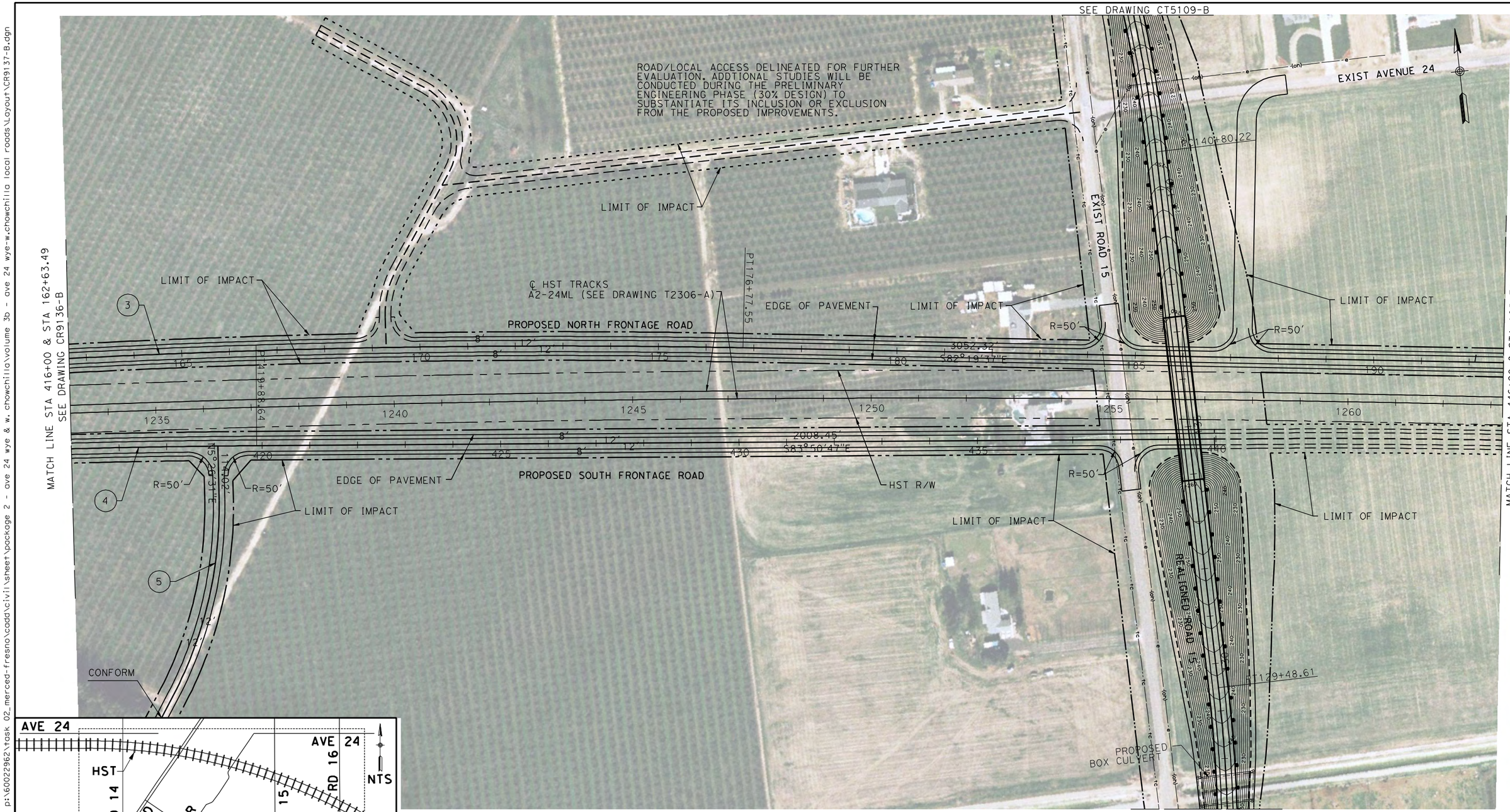
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

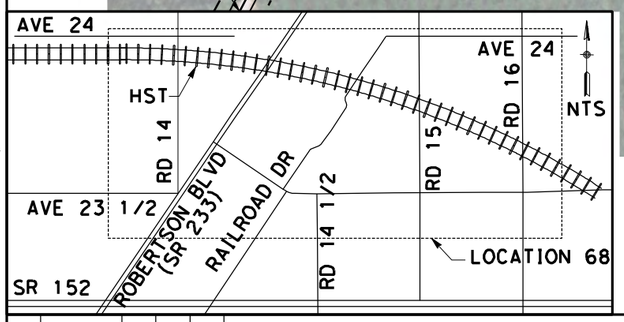
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
NORTH & SOUTH FRONTAGE ROAD
LAYOUT
STA 369+00 TO 416+00 & 130+00 TO 162+63.49

CONTRACT NO. HSR06-007
DRAWING NO. CR9136-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9137-B.dgn
4/27/2011 7:05:22 PM
ReyesC1





CURVE DATA

No.	R	Δ	T	L
(3)	20000.04	4°48'23"	839.37	1677.76
(4)	20000.04	4°10'55"	730.20	1459.76
(5)	850.00	28°34'7"	216.41	423.82

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

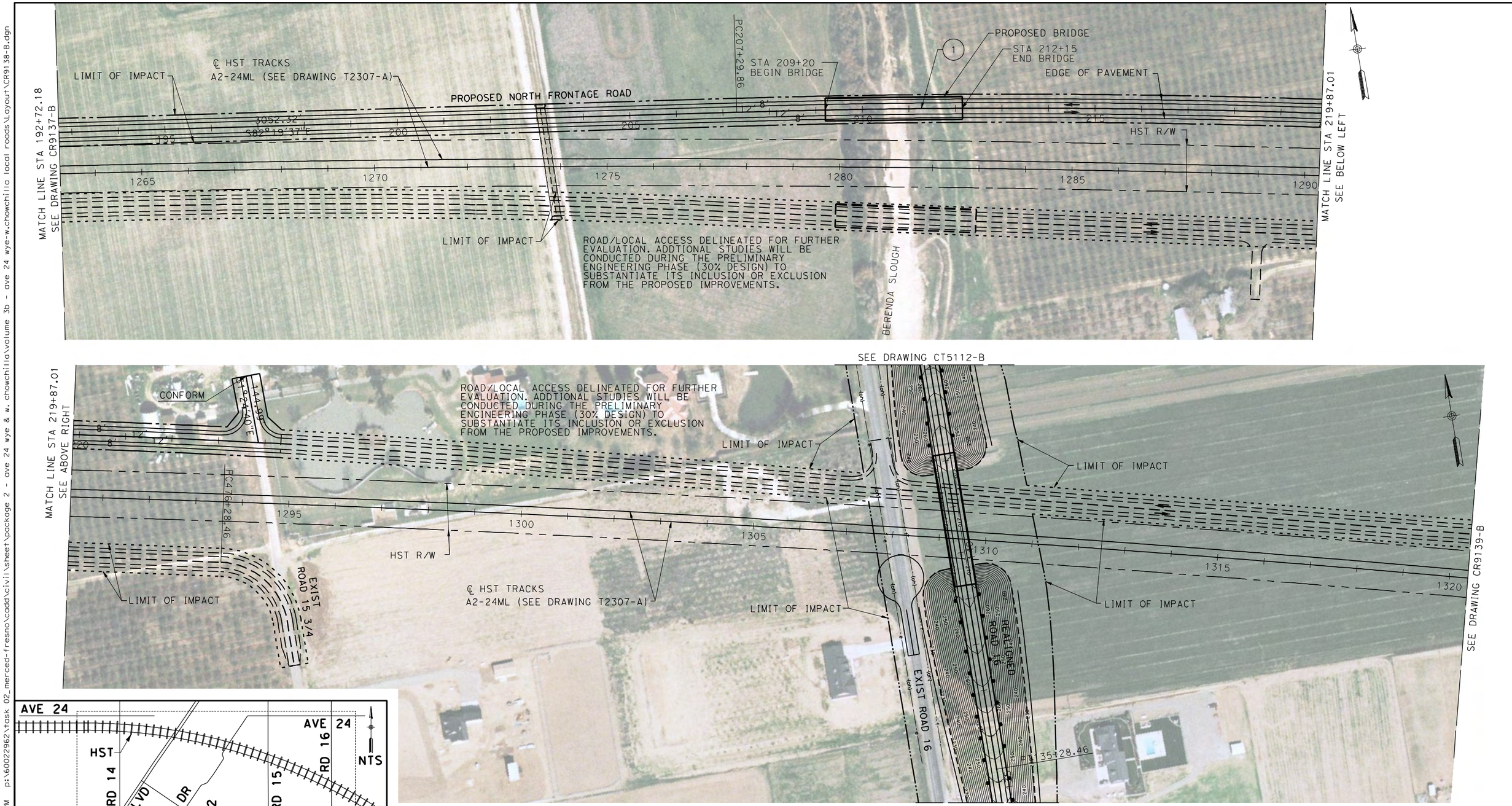
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

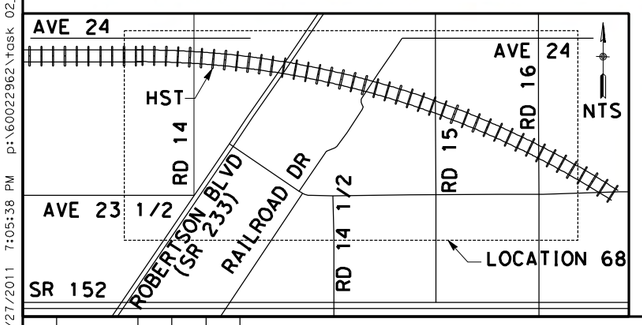
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
NORTH & SOUTH FRONTAGE ROAD
LAYOUT
STA 162+63.49 TO 192+72.18 & STA 416 TO 440

CONTRACT NO. HSR06-007
DRAWING NO. CR9137-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9138-B.dgn
4/27/2011 7:05:38 PM
ReyesC1





CURVE DATA

No.	R	Δ	T	L
(1)	20000.00	6°8'17"	1072.32	2142.59

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

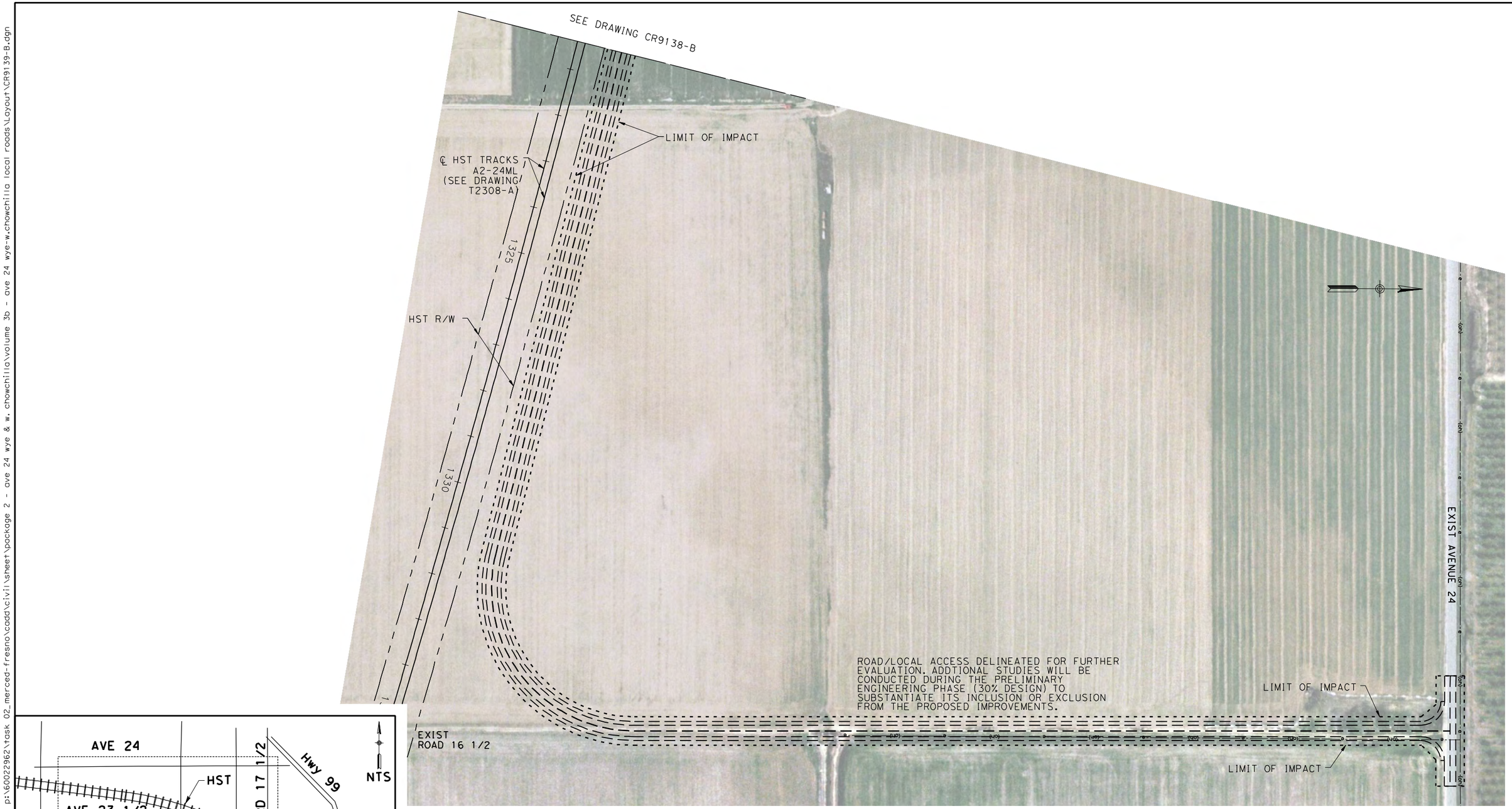
CH2MHILL

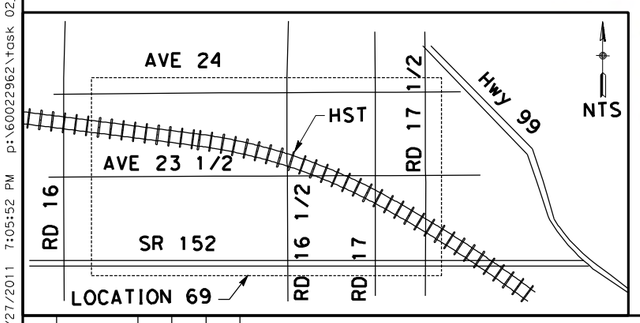
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
NORTH & SOUTH FRONTAGE ROAD
LAYOUT
192+72.18 TO 224+34.28

CONTRACT NO. HSR06-007
DRAWING NO. CR9138-B
SCALE AS SHOWN
SHEET NO. ### OF ###





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

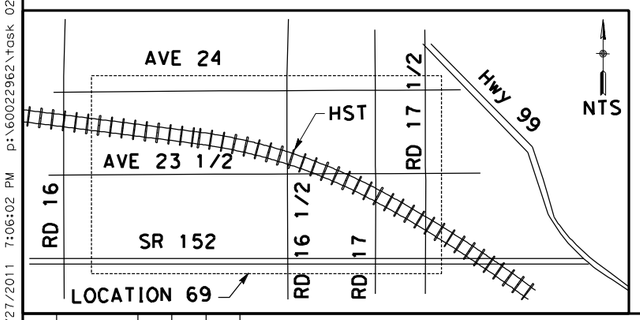
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
NORTH FRONTAGE ROAD & ROAD 16 1/2
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9139-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:05:52 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9139-B.dgn
ReyesC1



CURVE DATA

No.	R	Δ	T	L
(1)	2000.00	16°55'26"	297.54	590.75
(2)	20000.00	3°0'28"	525.07	1049.90

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

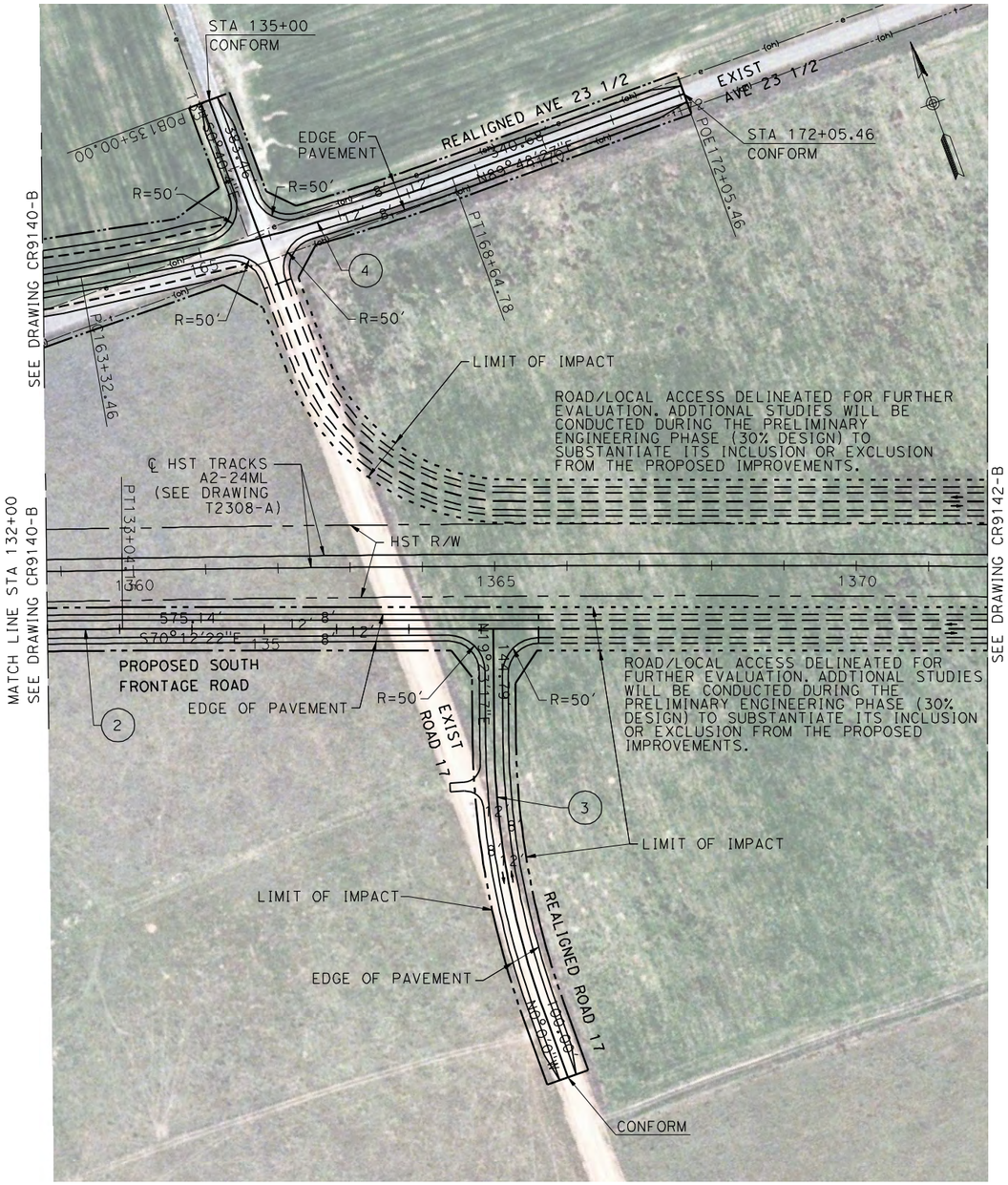
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

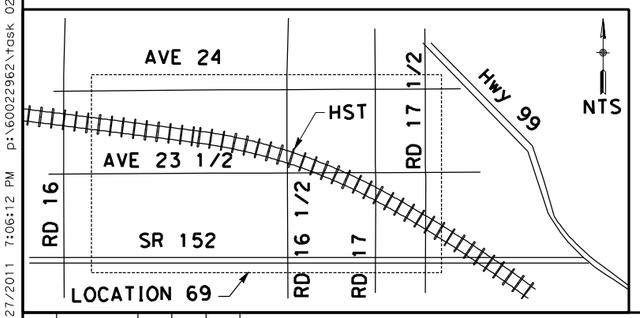
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
SOUTH FRONTAGE ROAD & ROAD 16 1/2
LAYOUT
STA 112+99.41 TO STA 132+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9140-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:06:02 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9140-B.dgn
ReyesC1





CURVE DATA

No.	R	Δ	T	L
(2)	20000.00	3°0'28"	525.07	1049.90
(3)	1150.00	19°23'17"	196.45	389.14
(4)	3000.00	10°10'0"	266.86	532.33

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

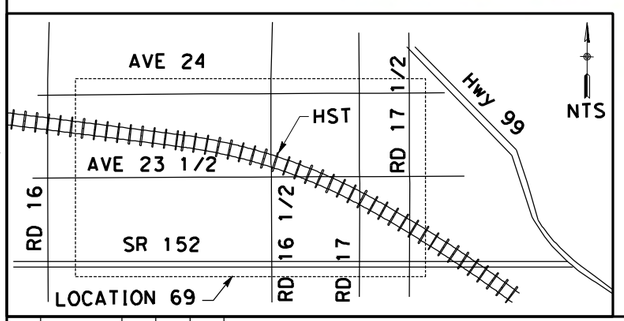
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (AVE 24)
NORTH & SOUTH FRONTAGE ROAD AVENUE 24
LAYOUT
STA 132+00 TO STA 138+79.29

CONTRACT NO. HSR06-007
DRAWING NO. CR9141-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:06:12 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9141-B.dgn
ReyesCI



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

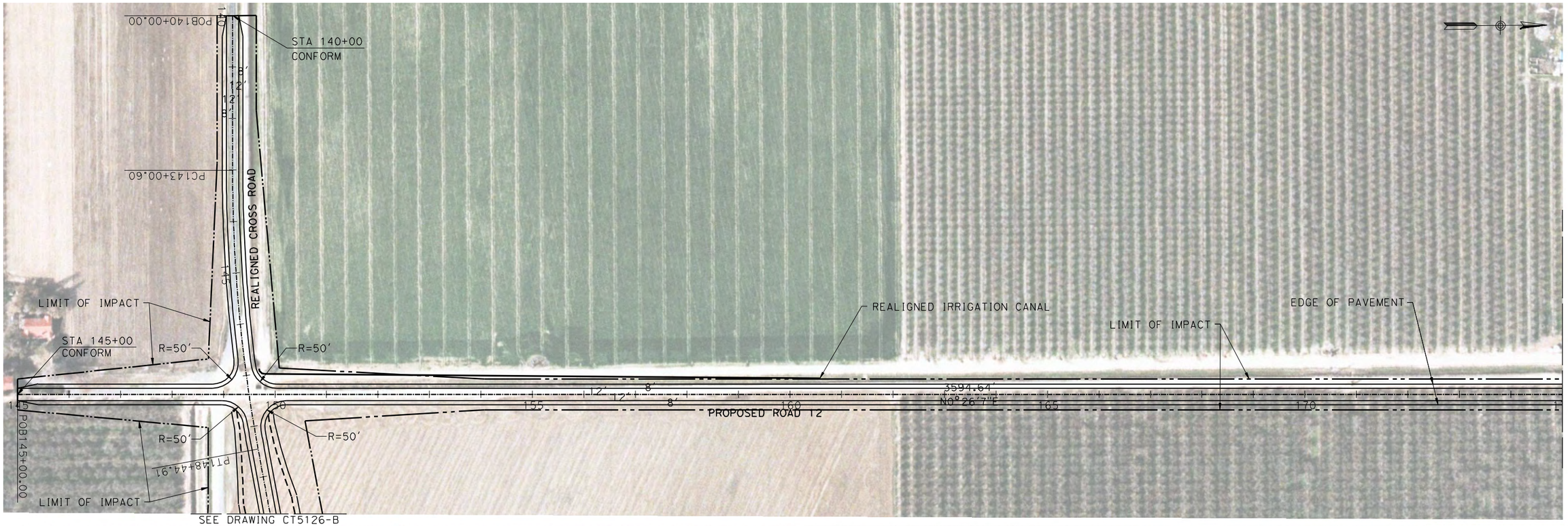
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

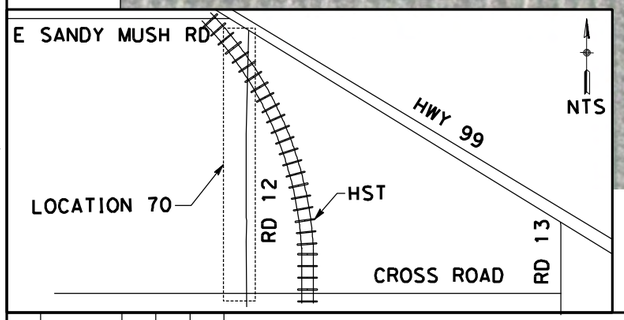
UPRR/SR99 MAINLINE - (AVE 24)
NORTH & SOUTH FRONTAGE ROAD AVENUE 24
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9142-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:06:23 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9142-B.dgn
ReyesC1

I:\Package 2 - ave 24 wye & w. chowchilla\Volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9143-B.dgn 4/27/2011 7:06:36 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\Volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9143-B.dgn ReyesC1





CURVE DATA

No.	R	Δ	T	L
(1)	20000.00	87°38'29"	411.70	823.29

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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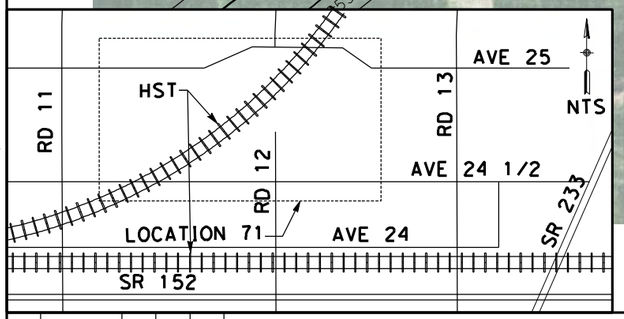
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 WYE - (AVE 24)
ROAD 12
LAYOUT
STA 145+00 TO STA 205+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9143-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
AVENUE 24 1/2
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9144-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:06:50 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9144-B.dgn
ReyesC1

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9145-B.dgn
4/27/2011 7:07:05 PM
ReyesC1

MATCH LINE STA 126+00
SEE DRAWING CR9146-B

DEPRESSED FARM ACCESS ROAD

HST R/W

EXIST ROAD 12

CONFORM

R=30'

R=30'

EDGE OF PAVEMENT

LIMIT OF IMPACT

R=50'

1902.58'
N89°53'6"E

POB100+00.00

PROPOSED AVENUE 24 3/4

R=30'

R=30'

CONFORM

R=50'

EXIST ROAD 12

PROPOSED ROAD 12 1/2

2707.84'
N0°0'0"W

℄ HST TRACK
A2-24WC (SEE DRAWING T2343-A)

℄ HST TRACK
A2-24WC (SEE DRAWING T2323-A)

LIMIT OF IMPACT

EDGE OF PAVEMENT

R=50'

R=50'

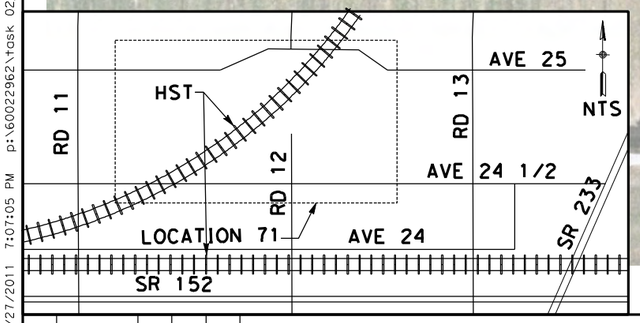
CONFORM

CONFORM

EXIST AVENUE 24 1/2

POB110+06.00

100 0 100 200
H: 1"=100'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

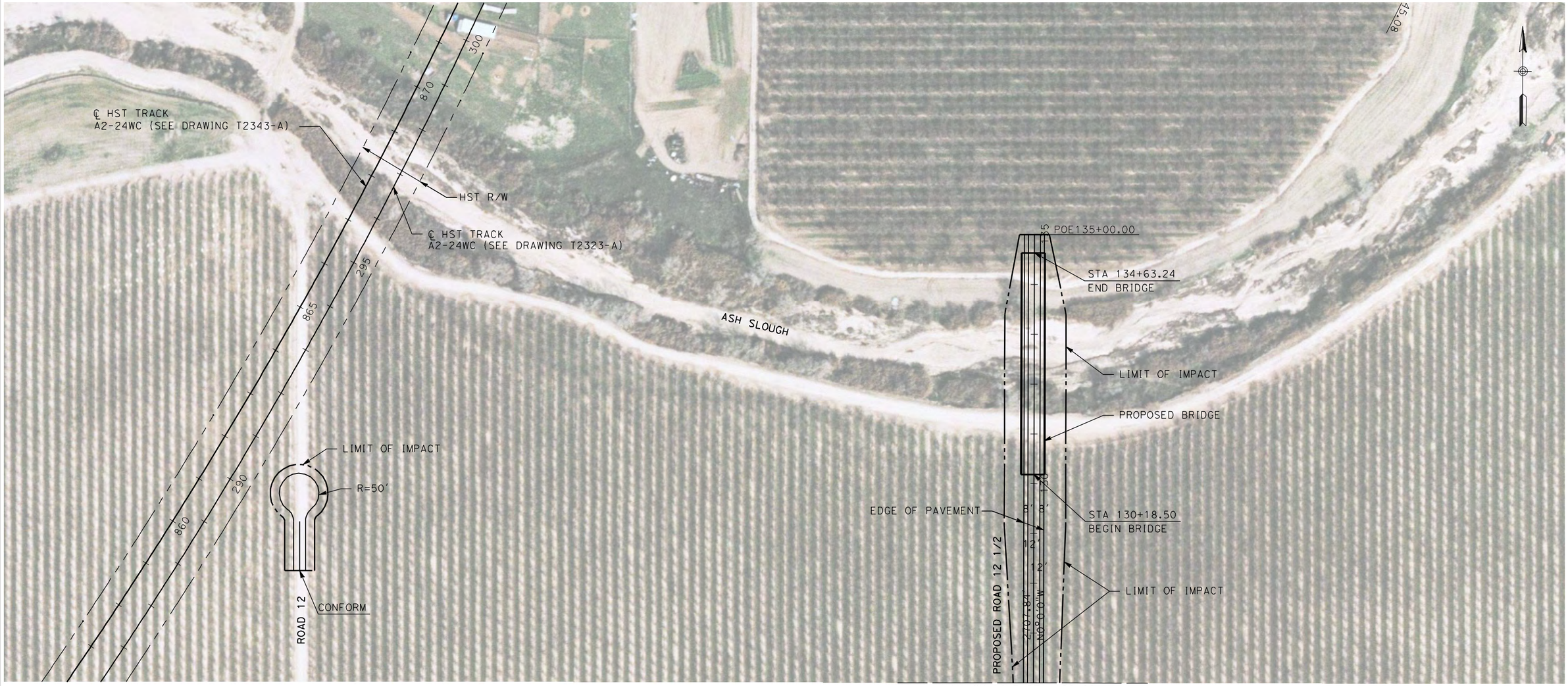
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

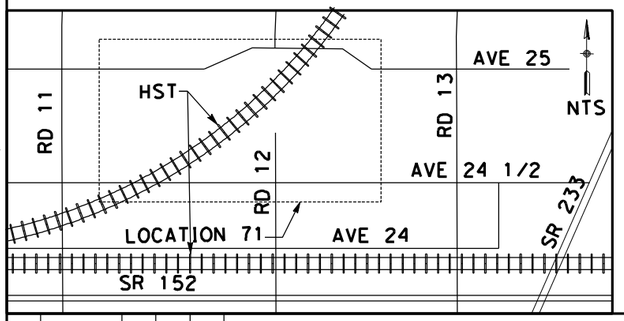
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
ROAD 12 1/4 & AVENUE 24 1/2
LAYOUT
STA 110+00 TO STA 126+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9145-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:07:18 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9146-B.dgn
ReyesC1





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
ROAD 12 1/4
LAYOUT
STA 126+00 TO STA 135+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9146-B
SCALE AS SHOWN
SHEET NO. ### OF ###

PROPOSED BOX CULVERT

STA 140+00

CONFORM

EXIST AVENUE 25

ASH SLOUGH

EDGE OF PAVEMENT

LIMIT OF IMPACT

PROPOSED ROAD 12 1/2

5975.72'
N0°29'22"E

MATCH LINE STA 170+00
SEE BELOW LEFT

PT156+18.24

SEE DRAWING CT5125-B

EXIST AVENUE 26

R=50'

LIMIT OF IMPACT

REALIGNED AVENUE 26

MATCH LINE STA 170+00
SEE ABOVE RIGHT

MATCH LINE STA 200+00
SEE DRAWING CR9148-B

100 0 100 200
H: 1"=100'

LOCATION 72

HST

AVE 27

AVE 26

AVE 25

RD 11

RD 12

RD 12 1/2

RD 13

RD 14

HWY 99

SR 233

NTS

CURVE DATA

No.	R	Δ	T	L
1	3000.00	63°44'15"	699.84	1375.10

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

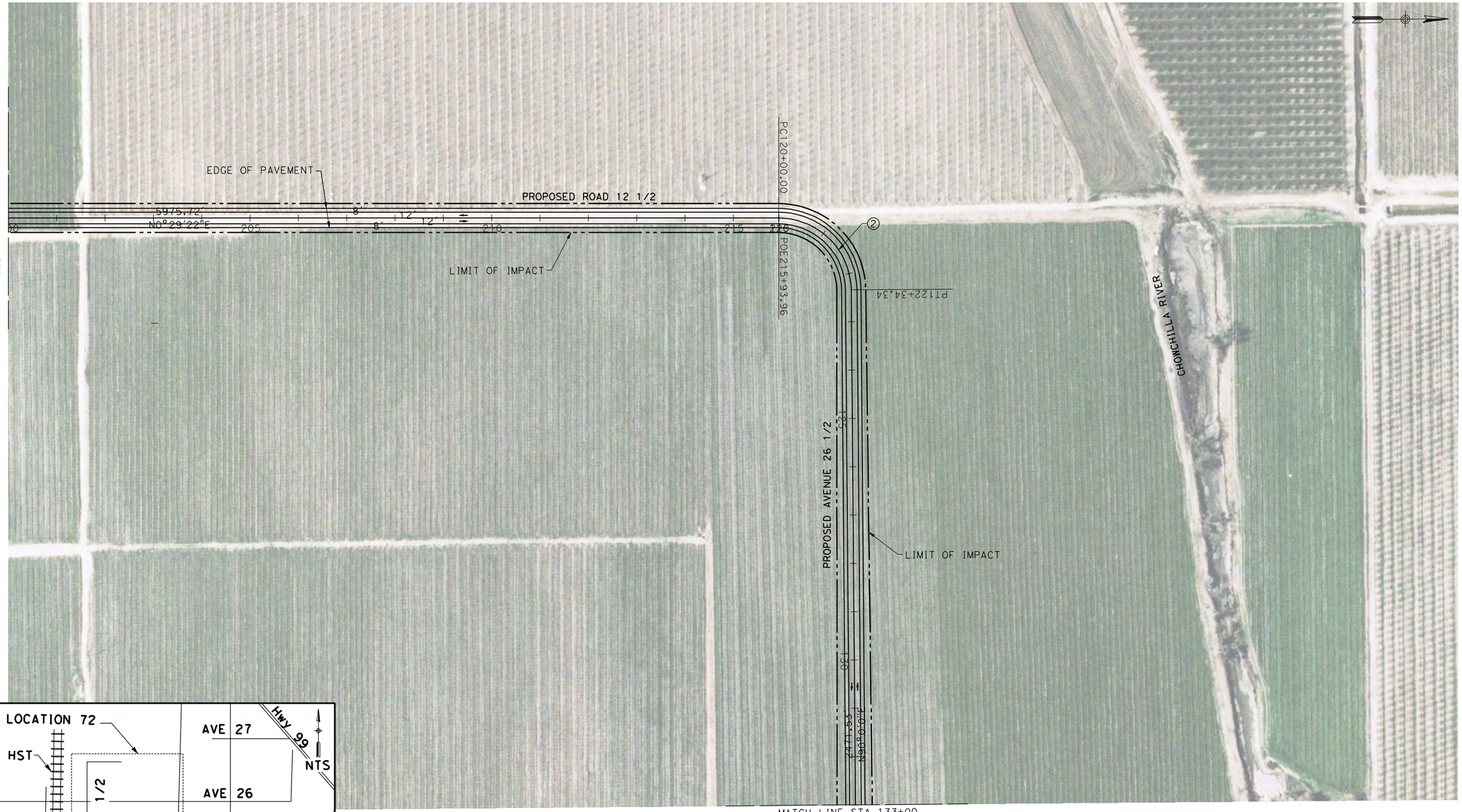
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

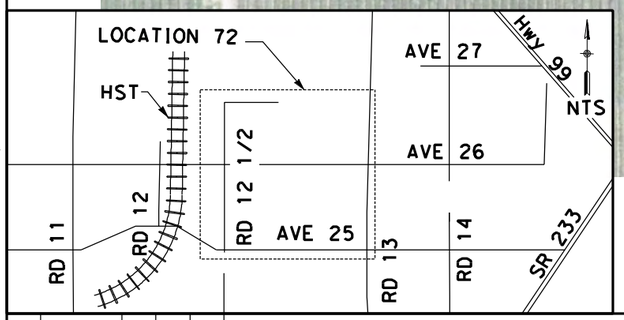
UPRR/SR99 WYE - (AVE 24)
ROAD 12 1/2
LAYOUT
STA 140+00 TO STA 200+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9147-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:07:30 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9147-B.dgn ReyesC1

Page 2 - ave 24 wye & w. chowchilla\Volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9148-B.dgn
4/27/2011 7:07:44 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla local roads\Layout\CR9148-B.dgn
ReyesC1





CURVE DATA

No.	R	Δ	T	L
②	150.00	0°29'22"	148.72	234.34

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
ROAD 12 1/2 & AVENUE 26 1/2
LAYOUT
STA 200+00 TO STA 133+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9148-B
SCALE AS SHOWN
SHEET NO. ### OF ###

MATCH LINE STA 133+00
SEE DRAWING CR9148-B

EDGE OF PAVEMENT

LIMIT OF IMPACT

PROPOSED AVENUE 26 1/2

8' 12' 8'

135'

140'

145'

247.53'
N90°00'0"E

LIMIT OF IMPACT

R=50'

R=50'

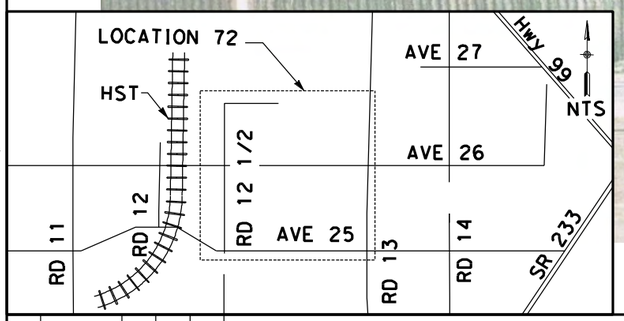
POE 147+05.87

EXIST ROAD 13

CONFORM

CONFORM

AVENUE 26 1/2



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE - (AVE 24)
AVENUE 26 1/2
LAYOUT
STA 133+00 TO STA 147+05.87

CONTRACT NO. HSR06-007
DRAWING NO. CR9149-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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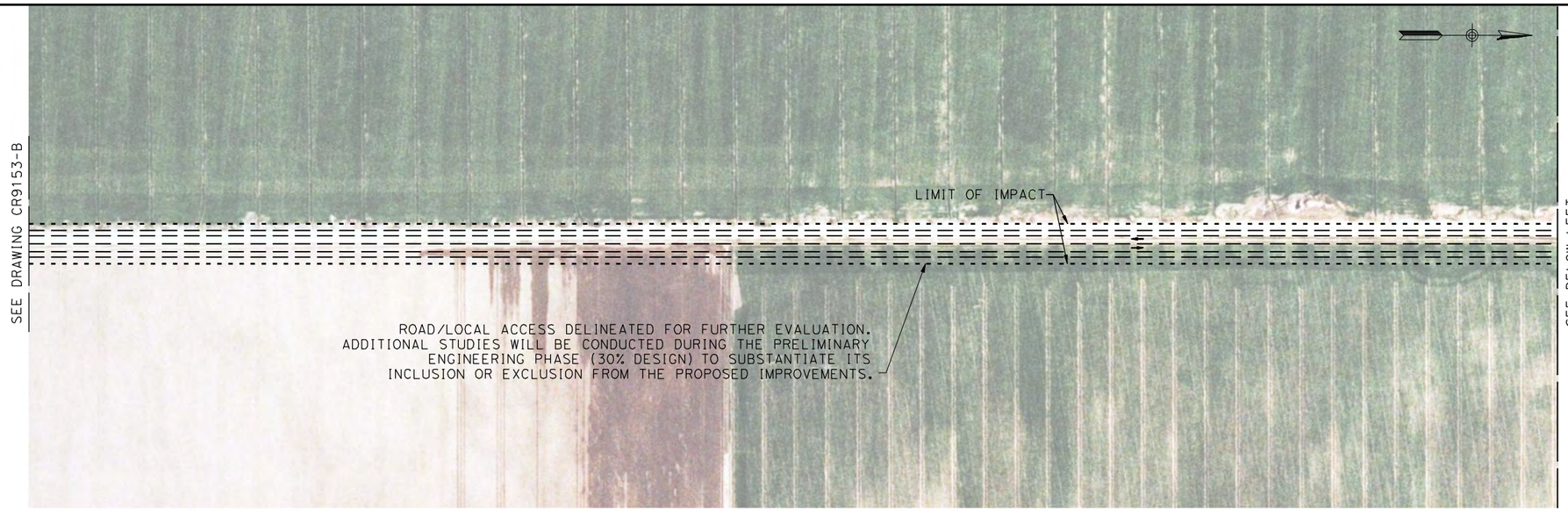
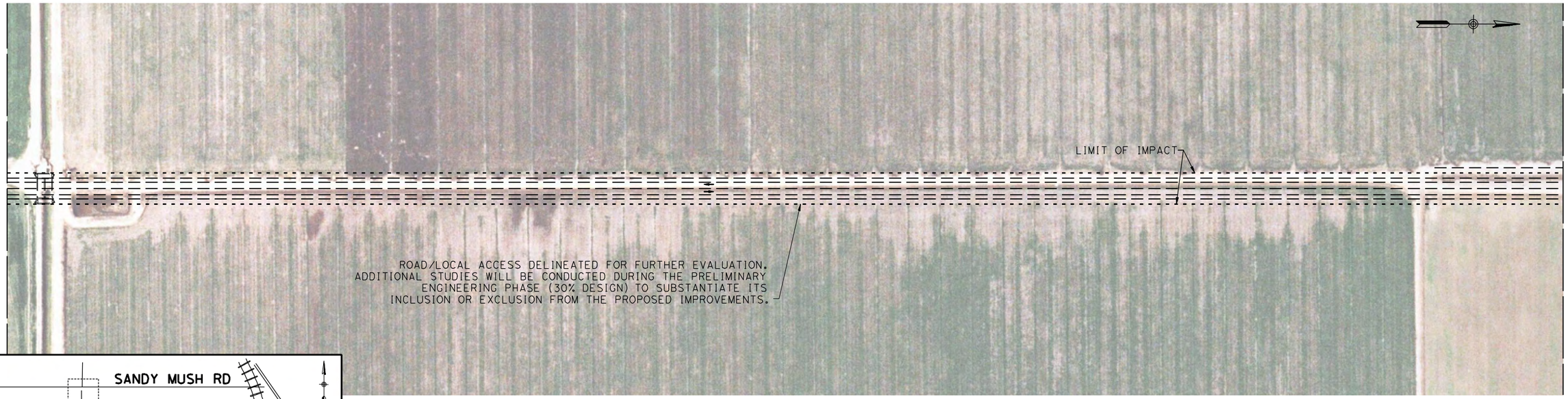
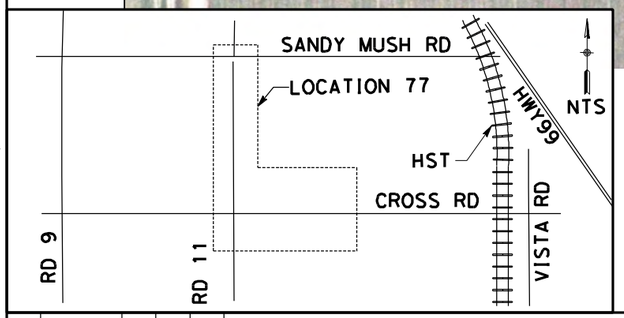
ReyesC1







100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

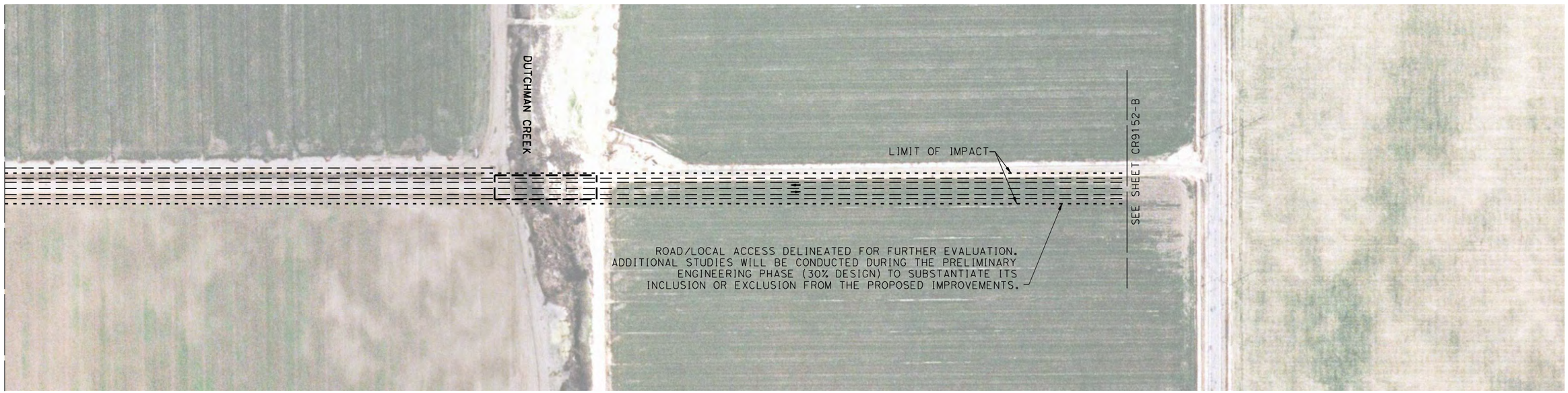
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

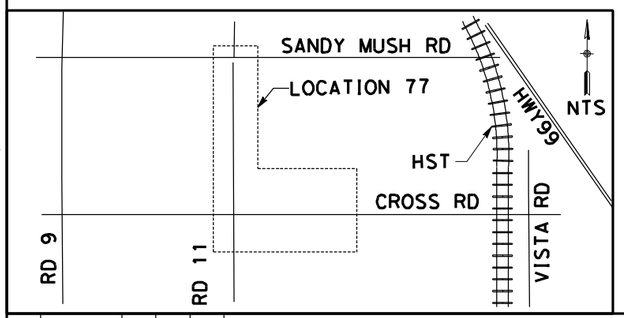
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - ROAD 11
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9150-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:08:25 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9151-B.dgn
ReyesC1





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

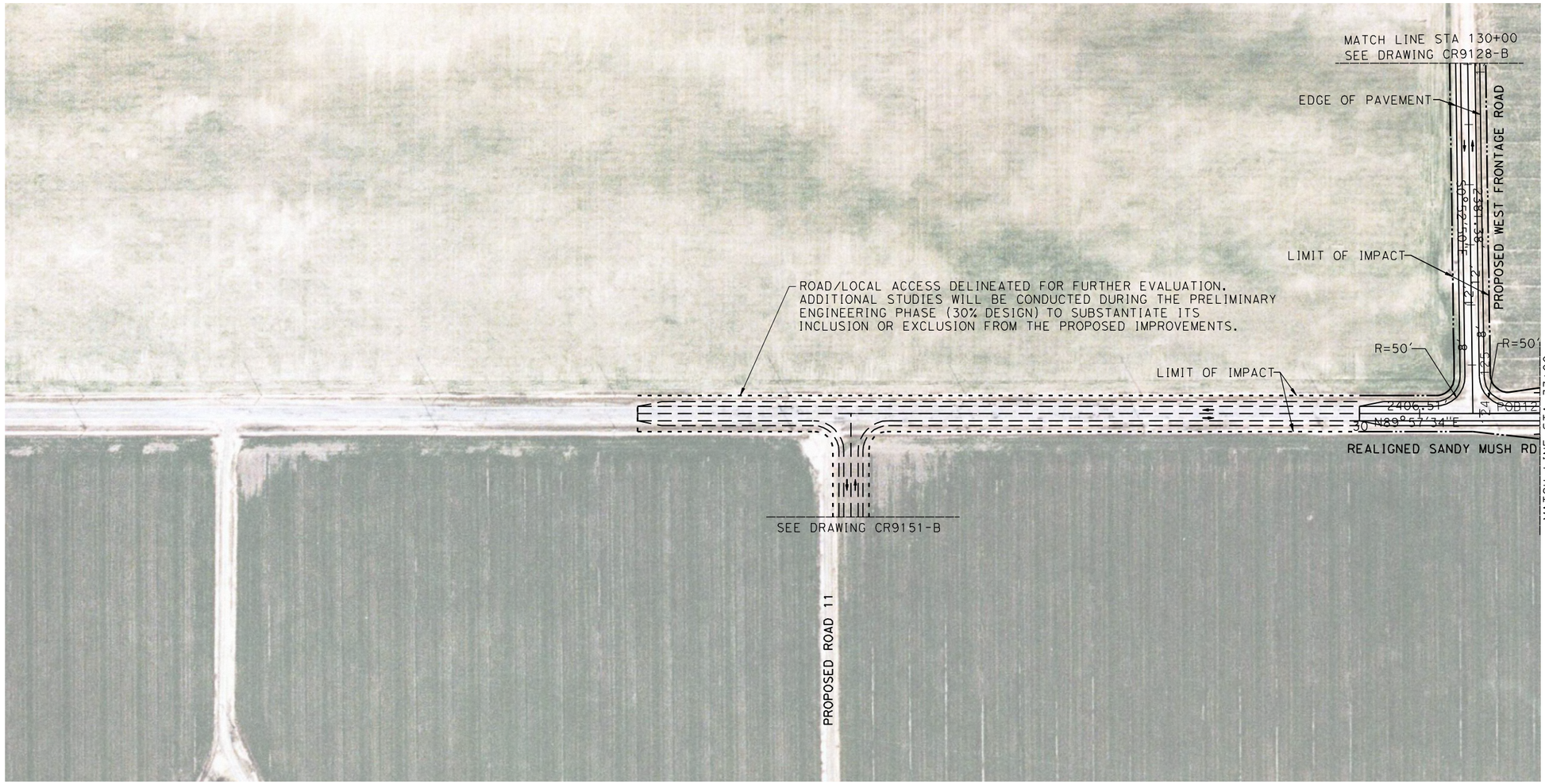
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

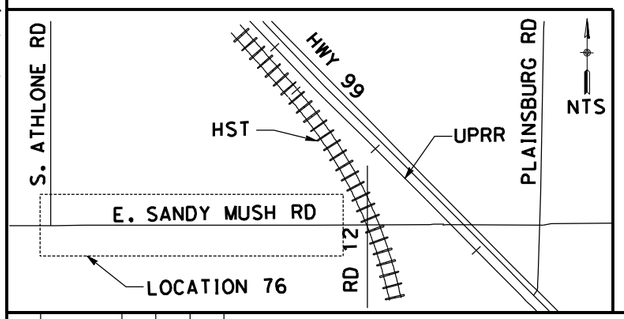
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - ROAD 11
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9151-B
SCALE AS SHOWN
SHEET NO. ### OF ###

I:\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 - 3/30/2012 7:01:24 PM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\USER=ReyesC1





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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

CH2MHILL

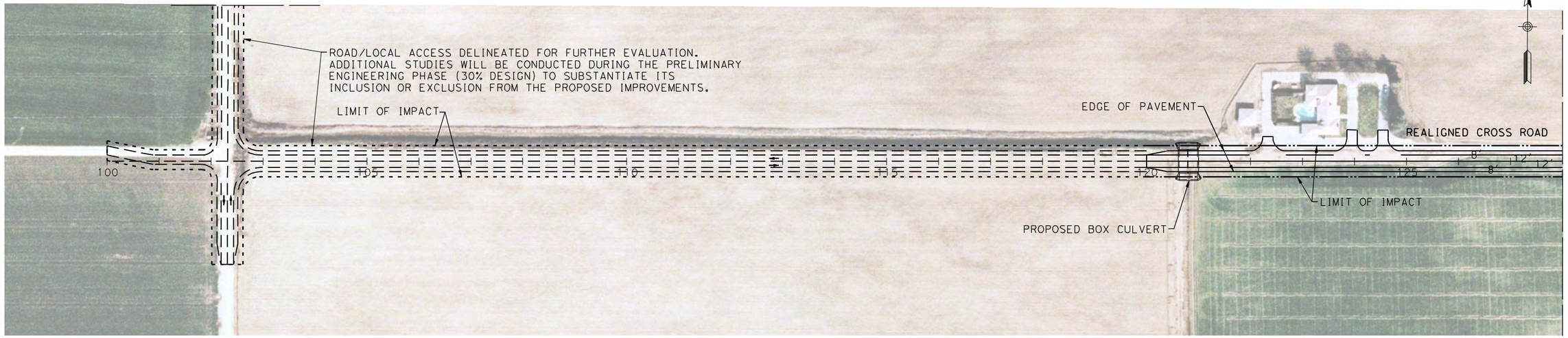
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

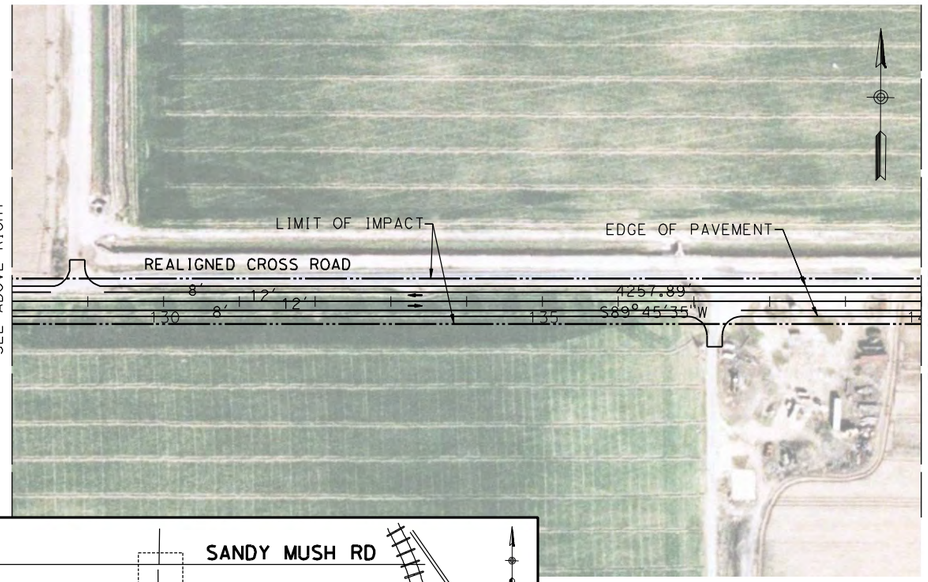
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

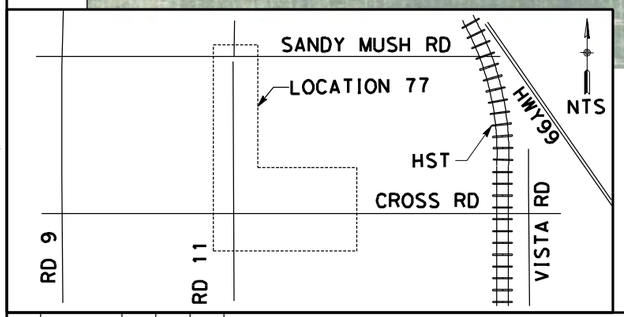
UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - SANDY MUSH ROAD
LAYOUT
STA 30+00 TO STA 33+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9152-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:08:48 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9153-B.dgn
ReyesC1







100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

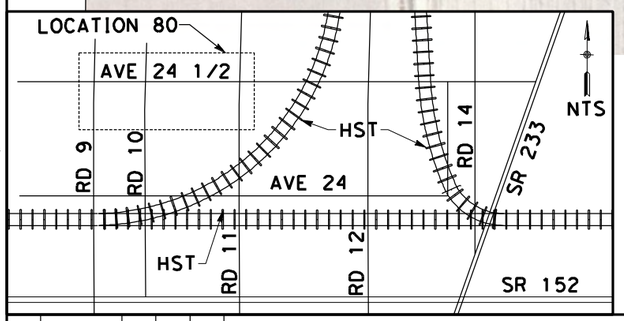
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - CROSS ROAD
LAYOUT
STA 120+00 TO STA 140+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9153-B
SCALE AS SHOWN
SHEET NO. ### OF ###



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE DO - (WC)
LOCAL ROAD - AVENUE 24 1/2
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9154-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:09:01 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9154-B.dgn
ReyesC1

SEE DRAWING CT5153-B

SEE SHEET CR9154-B

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

R=850′

LIMIT OF IMPACT

EDGE OF PAVEMENT

CONNECTOR ROAD 2

R=50′

R=50′

R=50′

R=50′

CONFORM

SEE BELOW LEFT

SEE DRAWING CT5154-B

CONFORM

R=50′

R=50′

PROPOSED BOX CULVERT

CONFORM

R=50′

R=50′

R=50′

REALIGNED AVENUE 25

EXIST AVENUE 24 1/2

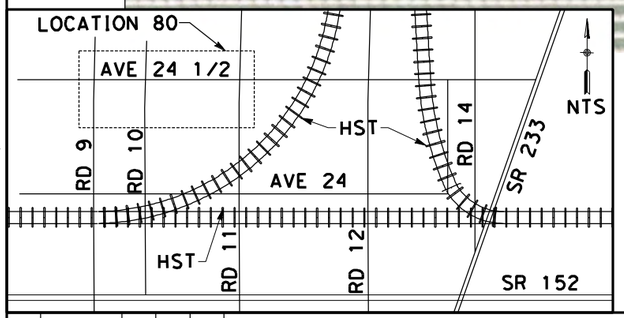
ROAD 11

SEE ABOVE RIGHT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

SEE DRAWING CT5156-B



100 0 100 200

H: 1"=100′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE DO - (WC)
LOCAL ROAD - AVENUE 24 1/2
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9155-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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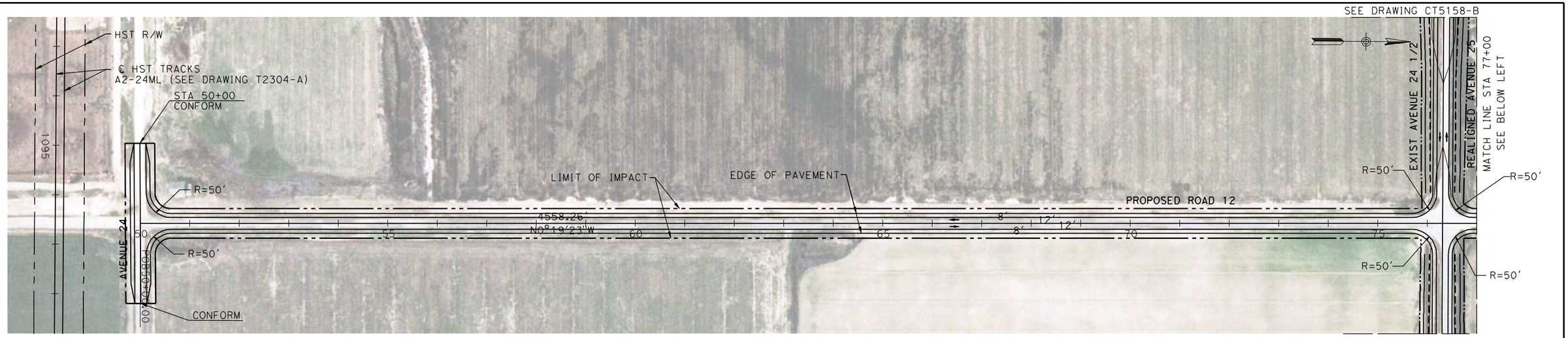
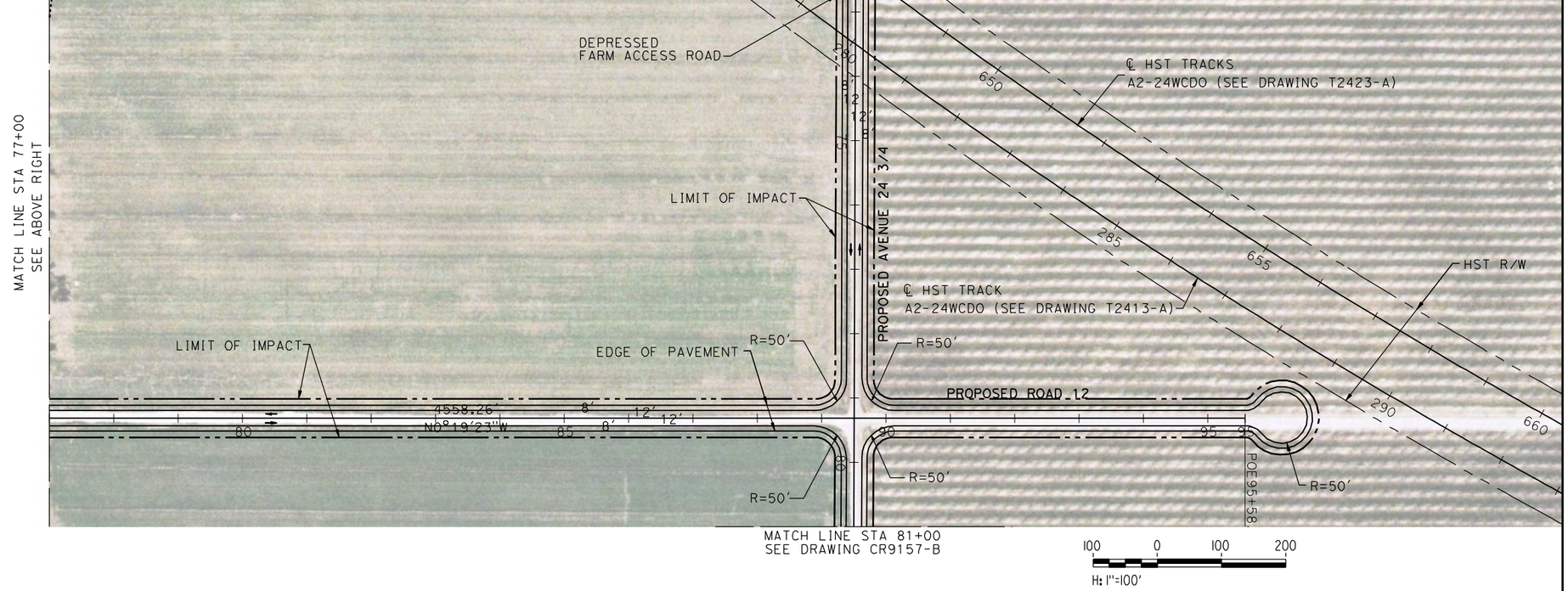
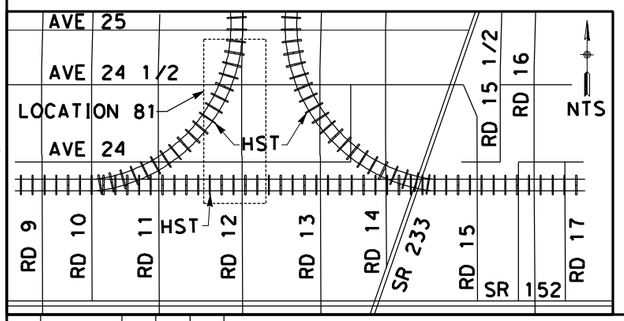






REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE DO - (WC)
LOCAL ROAD - ROAD 12
LAYOUT
STA 50+00 TO 95+58.26 & STA 71+00 TO 81+00

CONTRACT NO.: HSR06-007
DRAWING NO.: CR9156-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

ReyesC1

SEE DRAWING CT5159-B

MATCH LINE STA 81+00
SEE DRAWING CR9156-B

REALIGNED AVENUE 25

REALIGNED AVENUE 24 3/4

EDGE OF PAVEMENT

LIMIT OF IMPACT

N89°52'11"E 3418.38'

HST R/W

295

665

PROPOSED ROAD 12 1/2

8' 12' 12' 8'

R=50'

EDGE OF PAVEMENT

R=50'

LIMIT OF IMPACT

R=50'

R=50'

PROPOSED BRIDGE

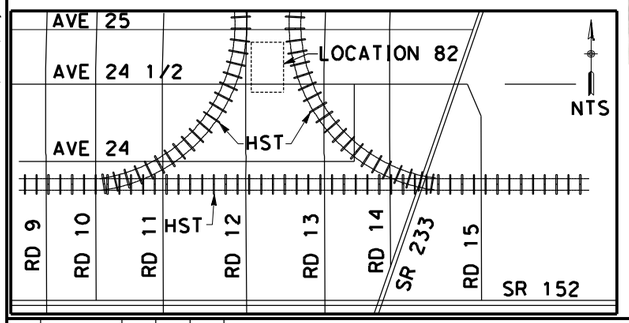
STA 79+71.63
BEGIN BRIDGE

STA 82+19.38
END BRIDGE

CONFORM

SEE DRAWING CT5159-B

MATCH LINE STA 96+00
SEE DRAWING CR9158-B



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 MERCED DO - (WC)
LOCAL ROAD - ROAD 12 1/2 & AVENUE 24 3/4
LAYOUT
STA 81+00 TO STA 96+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9157-B
SCALE AS SHOWN
SHEET NO. ### OF ###

USER=ReyesC1 3/28/2012 5:25:18 PM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 -

p:\60022962\task 02_merced-fresno\cadd\civil\sheet package 2 - ave 24 wye & w. chowchilla volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9158-B.dgn
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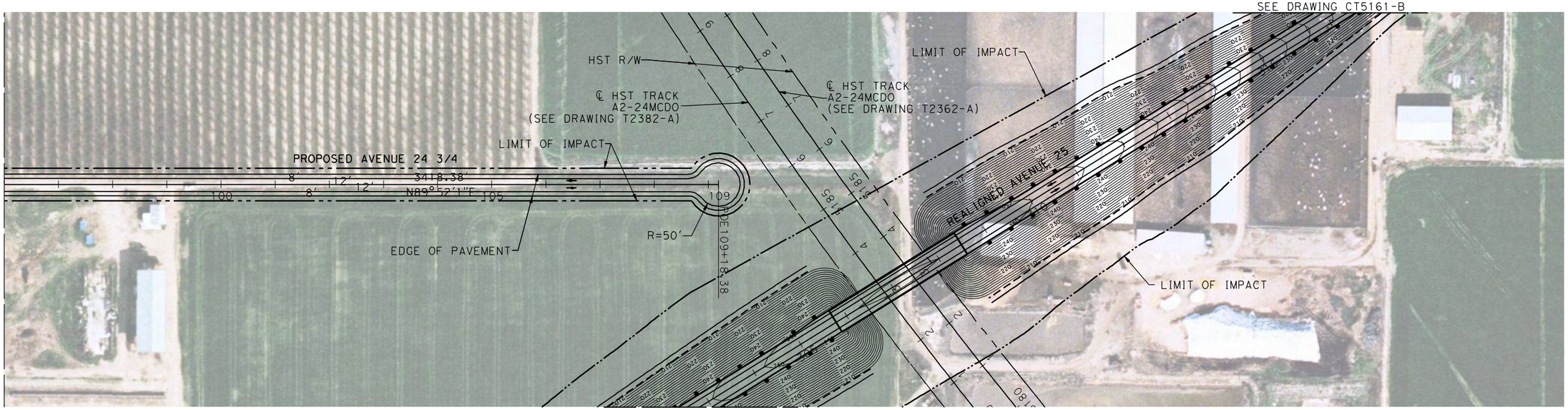

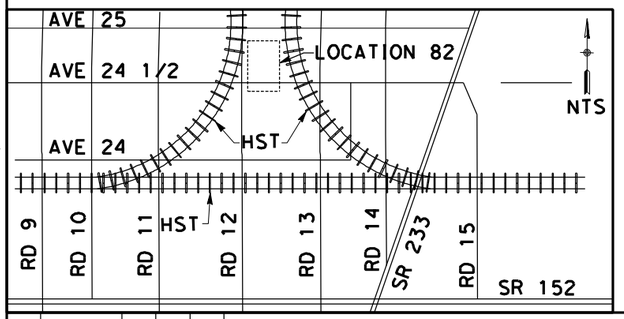

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED/WYE DO - (WC)
LOCAL ROAD - AVENUE 24 3/4
LAYOUT
STA 96+00 TO STA 109+18.38

CONTRACT NO. HSR06-007
DRAWING NO. CR9158-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 7:10:25 PM ReyesC1

SEE DRAWING CT5130-B

℄ HST TRACKS
A2-24ML (SEE DRAWING T2302-A)

LIMIT OF IMPACT

HST R/W

CS158+88.62

SS161+03.62

SC528+87.00

SC529+16.00

SC531+23.62

SS534+80.96

SEE DRAWING CR9130-B

LIMIT OF IMPACT

LIMIT OF IMPACT

EXIST ROAD 10

REALIGNED ROAD 10

LIMIT OF IMPACT

CS541+10.17

ST543+30.17

AVENUE 24

℄ HST TRACKS
A2-24WCDO (SEE DRAWING T2421-A)

ST548+58.65

ST549+43.82

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

℄ HST TRACKS
A2-24WCDO (SEE DRAWING T2411-A)

SEE BELOW LEFT

SEE DRAWING CT5130-B

MATCH LINE STA 135+00
SEE DRAWING CR9160-B

℄ HST TRACKS
A2-24WCDO (SEE DRAWING T2421-A)

3

LIMIT OF IMPACT

EDGE OF PAVEMENT

STA 120+00
CONFORM

EXIST AVENUE 24

N89°49'51"E 100.05

POBT 120+00.00

PCT1 121+00.05

SC1 121+43.82

℄ HST TRACKS
A2-24ML (SEE DRAWING T2302-A)

LIMIT OF IMPACT

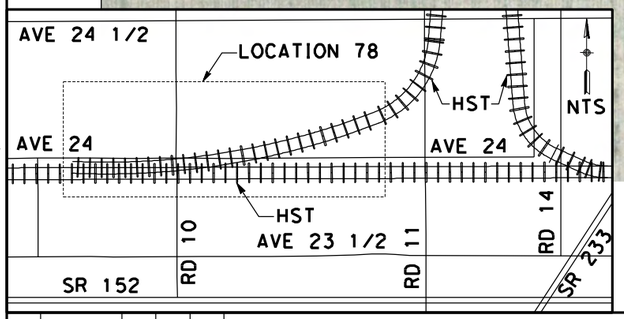
HST R/W

℄ HST TRACKS
A2-24WCDO (SEE DRAWING T2411-A)

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

SEE ABOVE RIGHT

SEE DRAWING CR9161-B



CURVE DATA

No.	R	Δ	T	L
(3)	7500.00	18°41'5"	1233.88	2445.84

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE DO - (WC)
SOUTH FRONTAGE ROAD
LAYOUT
STA 120+00 TO 135+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9159-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla local roads\Layout\CR9160-B.dgn
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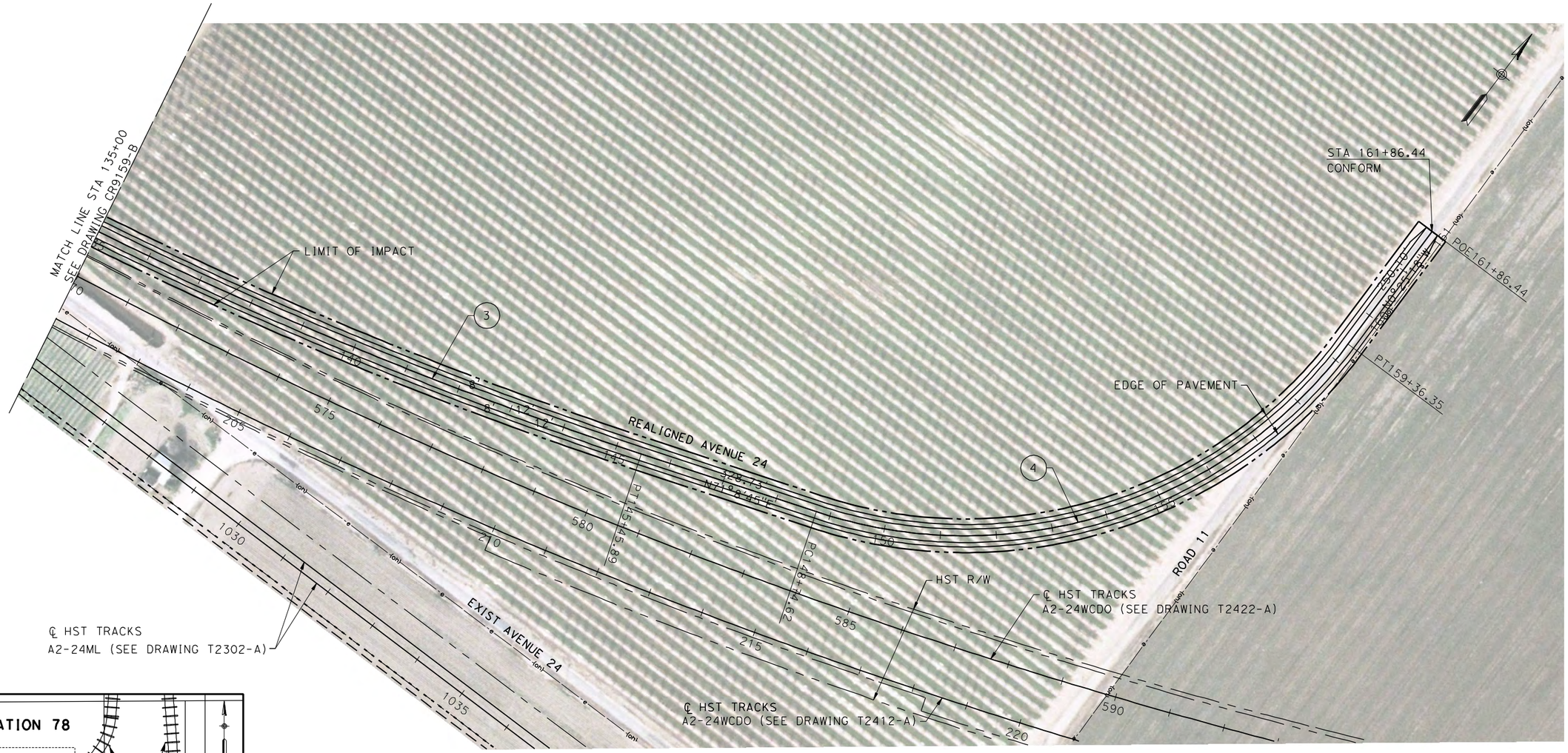

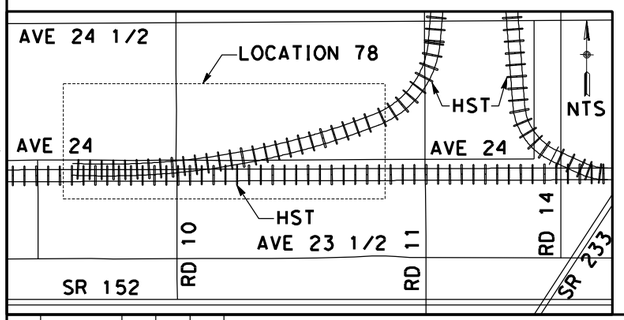

CURVE DATA

No.	R	Δ	T	L
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(4)	850.00	71°34'4"	612.68	1061.73

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE DO - (WC)
AVENUE 24
LAYOUT
STA 135+00 TO STA 161+86.44

CONTRACT NO. HSR06-007
DRAWING NO. CR9160-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9161-B.dgn
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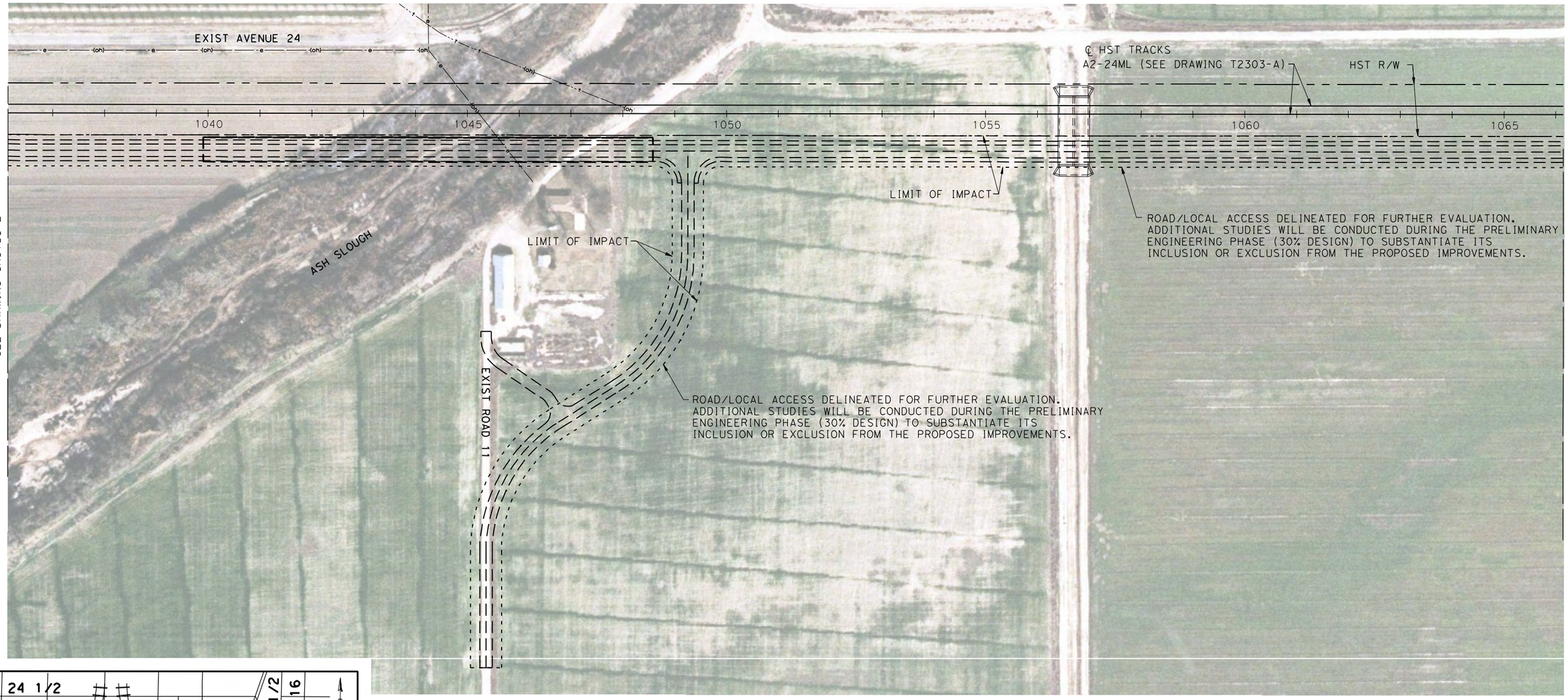

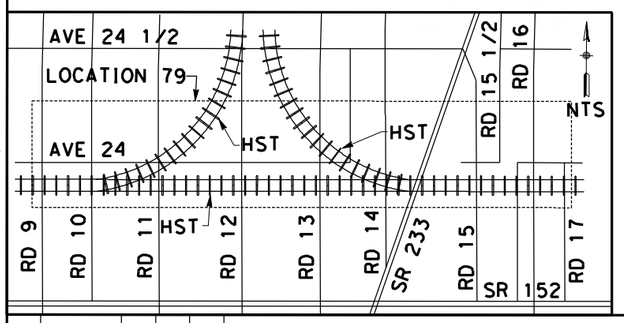

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (WC)
SOUTH FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9161-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9162-B.dgn
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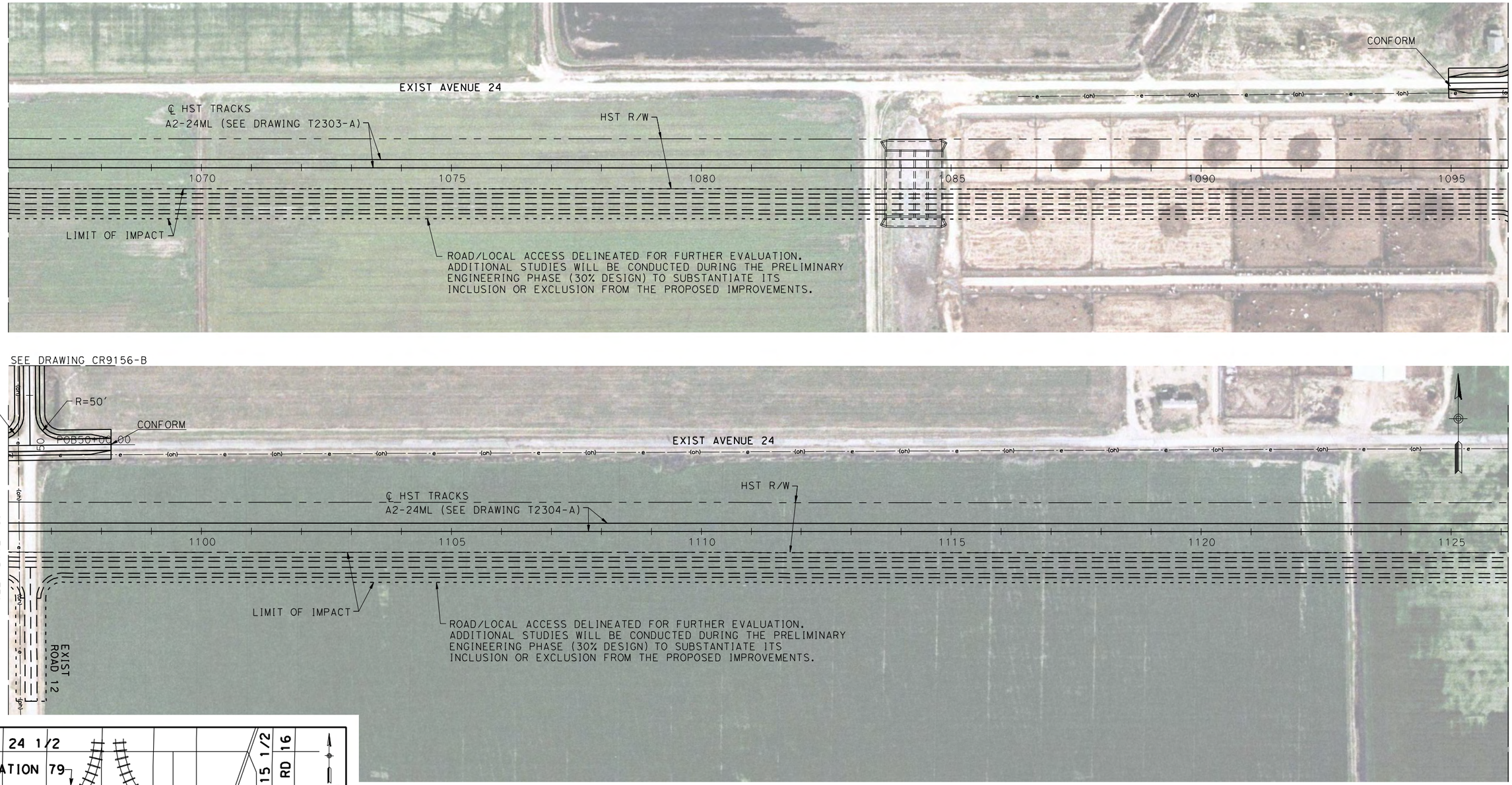
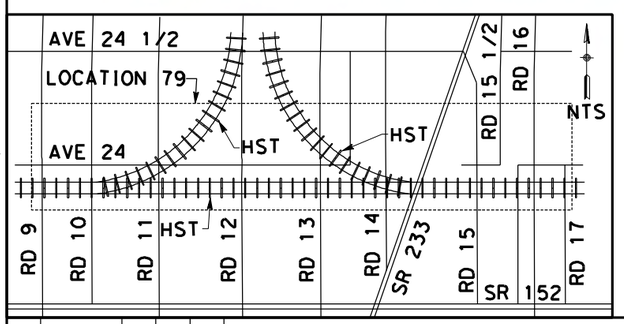
ReyesC1





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE - (WC)
SOUTH FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9162-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/28/2011 6:10:00 PM P:\60022962\Task 02_Merced-Fresno\cadd\Civil\Sheet Package 2 - Ave 24 Wye & W. Chowchilla\Volume 3B - Ave 24 Wye-W.Chowchilla Local Roads\Layout\CR9163-B.dgn
ayeled

SEE DRAWING CT5133-B

AVENUE 24

℄ HST TRACKS
A2-24ML (SEE DRAWING T2304-A)

HST R/W

LIMIT OF IMPACT

SEE DRAWING CR9162-B

1130 1135 1140 1145 1150 1155

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

LIMIT OF IMPACT

EXIST ROAD 13

REALIGNED ROAD 13

8' 12' 12' 8'

335

PROPOSED SOUTH FRONTAGE ROAD

LIMIT OF IMPACT

LIMIT OF IMPACT

MATCH LINE STA 339+00
SEE BELOW LEFT

SEE DRAWING CT5133-B

AVENUE 24

MATCH LINE STA 339+00
SEE ABOVE RIGHT

HST R/W

℄ HST TRACKS
A2-24ML (SEE DRAWING T2305-A)

1160 1165 1170 1175 1180 1185

8' 8' 12' 12'

340 345 350 355 360 365

16685.05'
S89°55'38"E

LIMIT OF IMPACT

EDGE OF PAVEMENT

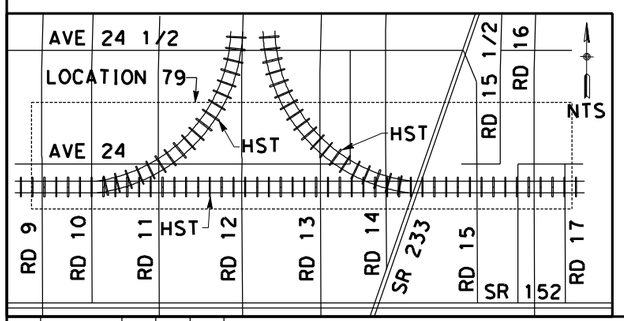
PROPOSED SOUTH FRONTAGE ROAD

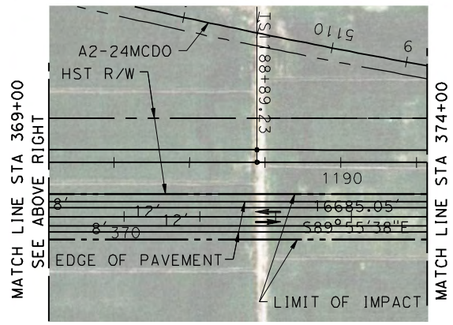
CONFORM

A2-24MCDO

R=50'

MATCH LINE STA 369+00
SEE BELOW LEFT





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

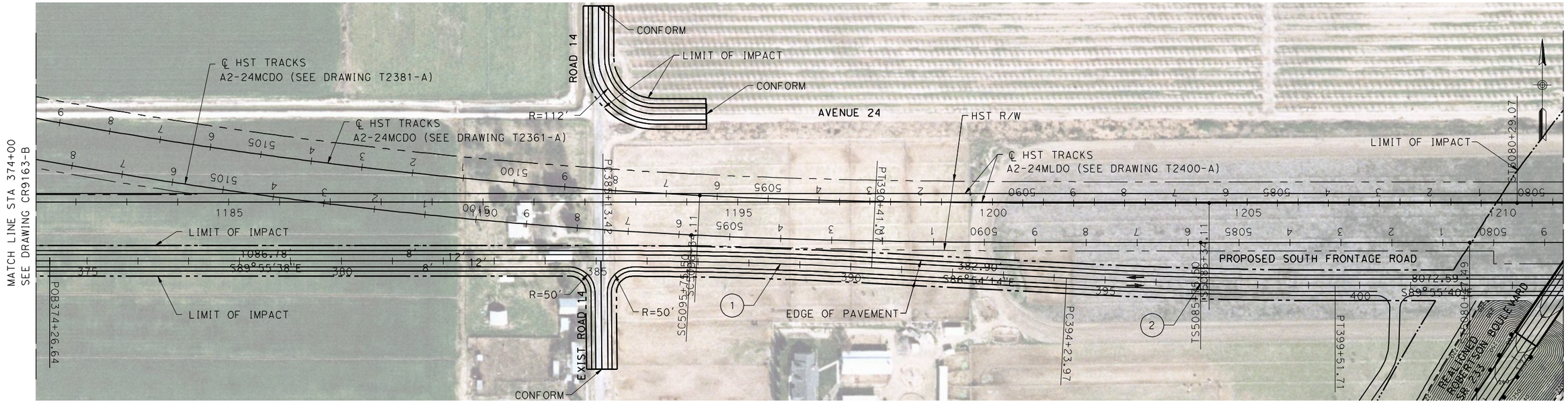
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

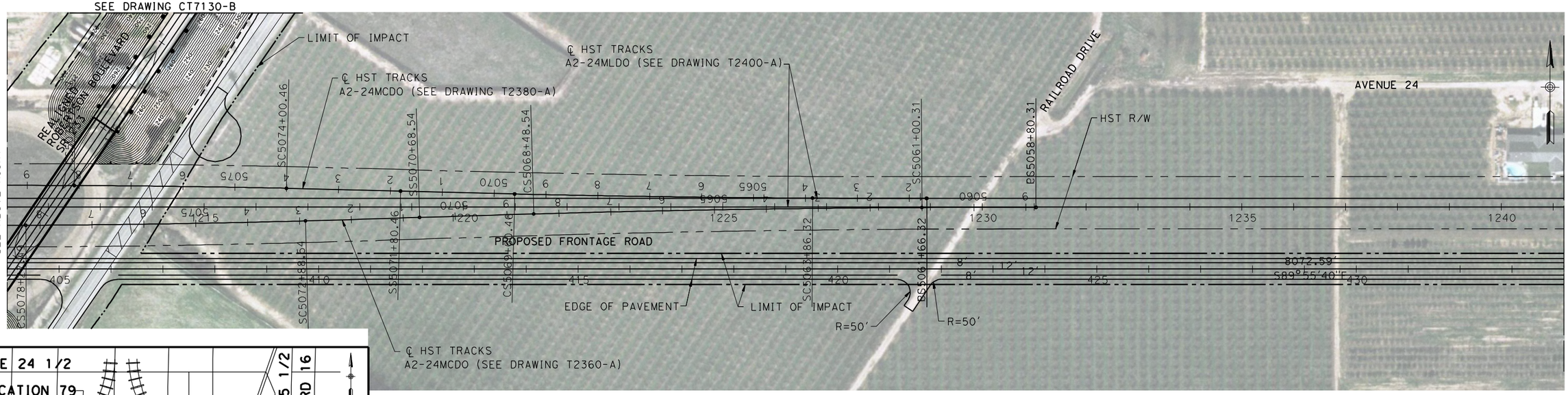
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

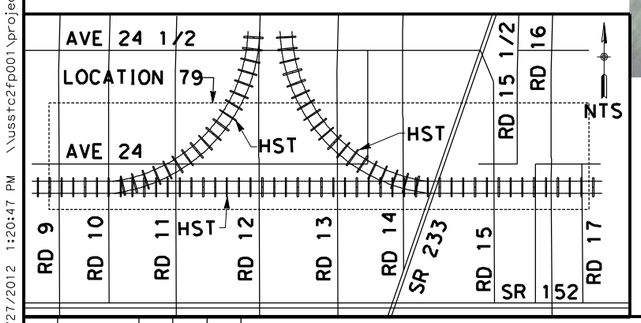
UPRR/SR99 MAINLINE - (WC)
SOUTH FRONTAGE ROAD
LAYOUT
STA 333+00 TO STA 374+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9163-B
SCALE AS SHOWN
SHEET NO. ### OF ###

USER=ReyesC1 3/27/2012 1:20:47 PM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 -







CURVE DATA

No.	R	Δ	T	L
(1)	10000.00	3°01'24"	263.88	527.65
(2)	10000.00	3°01'25"	263.93	527.74

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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

UPRR/SR99 MAINLINE DO/MERCED DO - (WC)
LOCAL ROAD - FRONTAGE ROAD
LAYOUT
STA 374+00 TO STA 434+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9164-B
SCALE AS SHOWN
SHEET NO. ### OF ###

SEE DRAWING CT5139-B

MATCH LINE STA 434+00
SEE DRAWING CT9164-B

LIMIT OF IMPACT

EXIST ROAD 15

REALIGNED ROAD 15

R=50'

LIMIT OF IMPACT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

AVENUE 24

℄ HST TRACKS
A2-24MLDO (SEE DRAWING T2401-A)

HST R/W

TS1268+26.03

BERENDA SLOUGH

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

SEE BELOW LEFT

1245 1250 1255 1260 1265 1270

435

LIMIT OF IMPACT

SEE DRAWING CT5139-B

SEE DRAWING CT5143-B

AVENUE 24

BERENDA SLOUGH

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

℄ HST TRACKS
A2-24MLDO (SEE DRAWING T2402-A)

HST R/W

SC1288+26.03

LIMIT OF IMPACT

EXIST ROAD 16

REALIGNED ROAD 16

SEE ABOVE RIGHT

1275 1280 1285 1290 1295 1300

SEE DRAWING CR9166-B

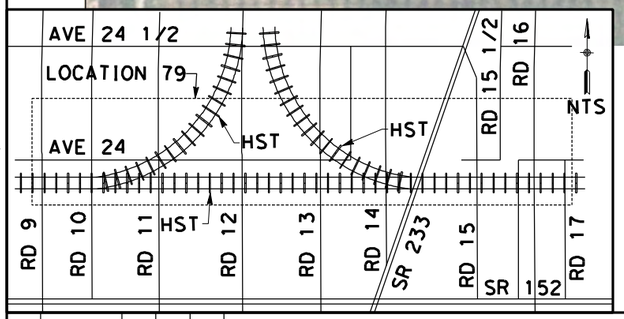
LIMIT OF IMPACT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

ROAD 15 3/4

LIMIT OF IMPACT

SEE DRAWING CT5143-B



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
LOCAL ROAD - FRONTAGE ROAD & AVENUE 24
LAYOUT
STA 434+00 TO STA 440+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9165-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:13:10 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9165-B.dgn ReyesCl

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9166-B.dgn
4/27/2011 7:13:45 PM
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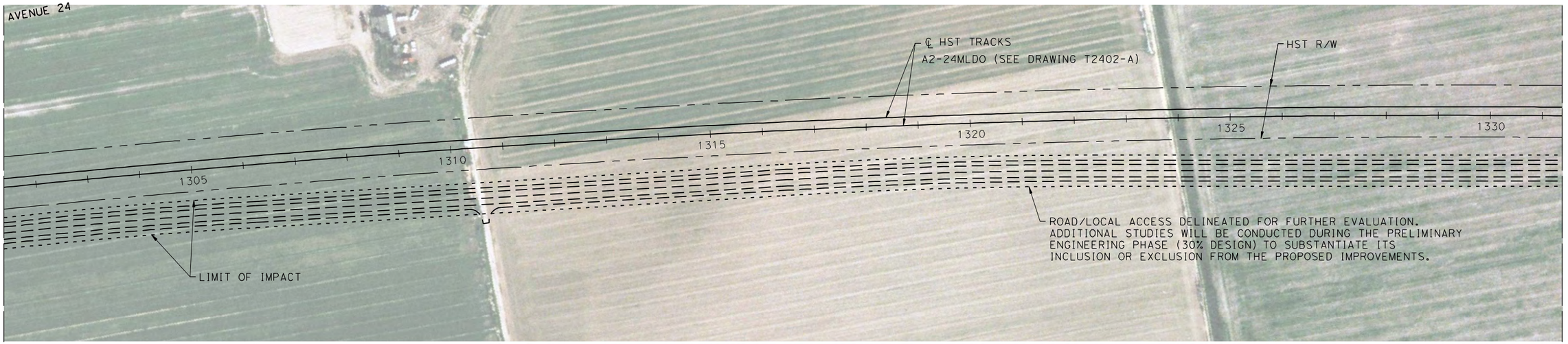

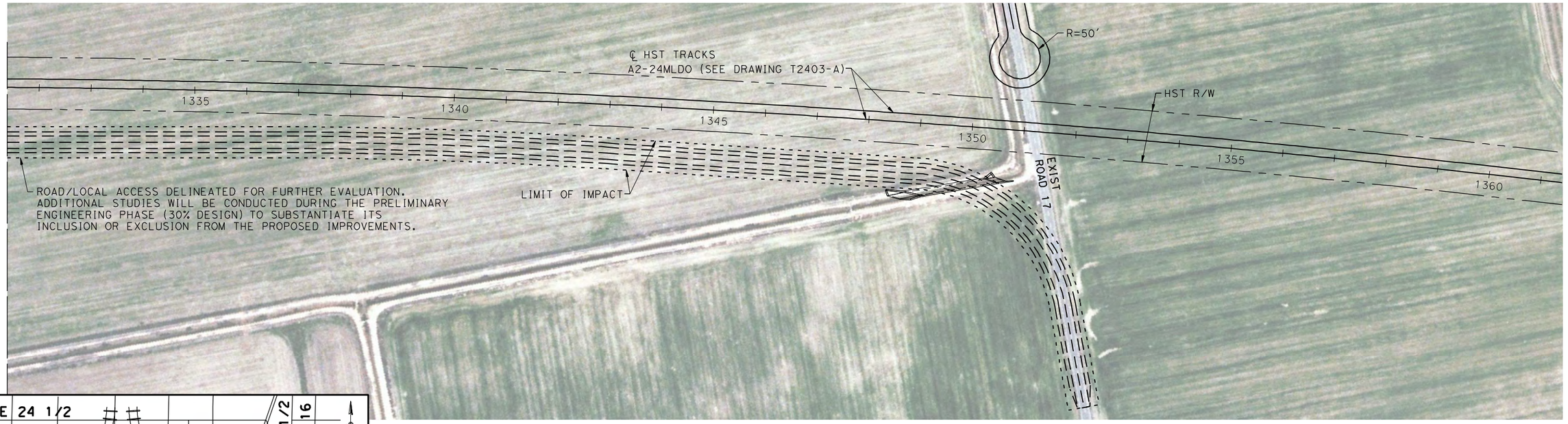

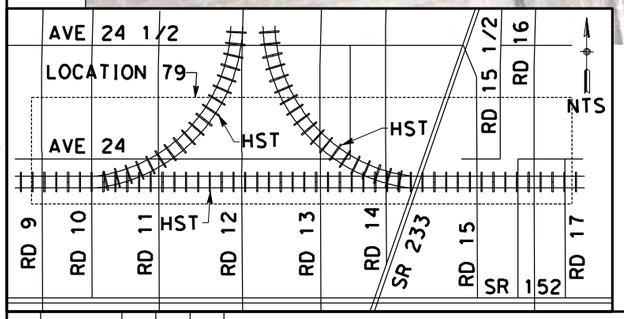

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

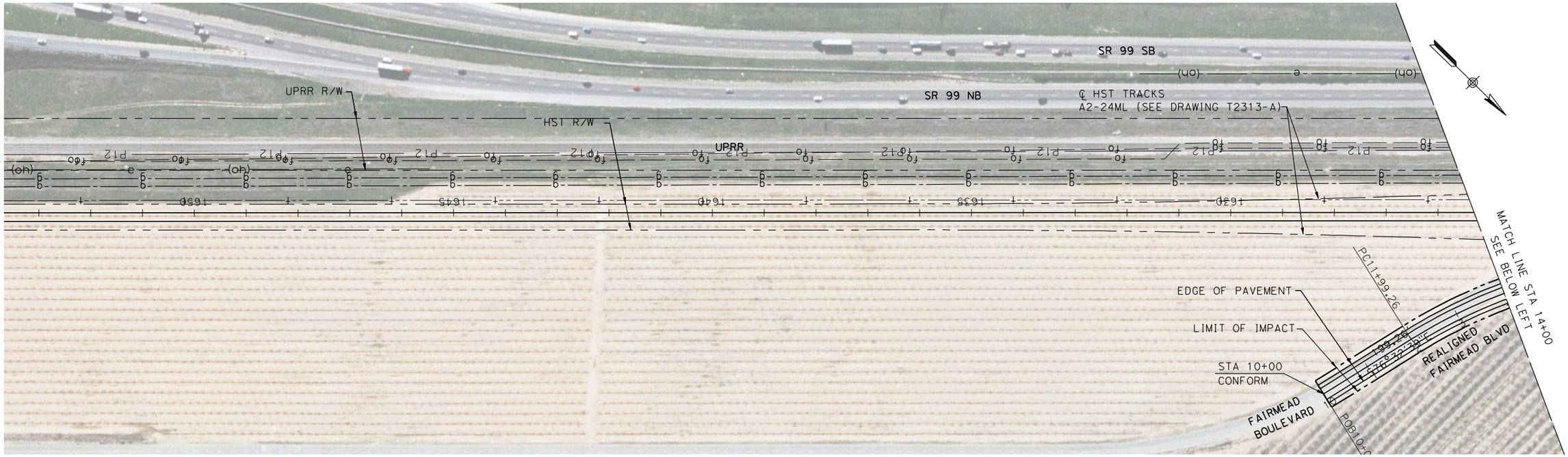
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO - (WC)
LOCAL ROAD - FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9166-B
SCALE AS SHOWN
SHEET NO. ### OF ###

C:\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 2 - USER=ReyesC1 3/27/2012 1:22:03 PM \\ussfc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil



CURVE DATA

No.	R	Δ	T	L
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②	24039.61	0°51'52"	181.37	362.73

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

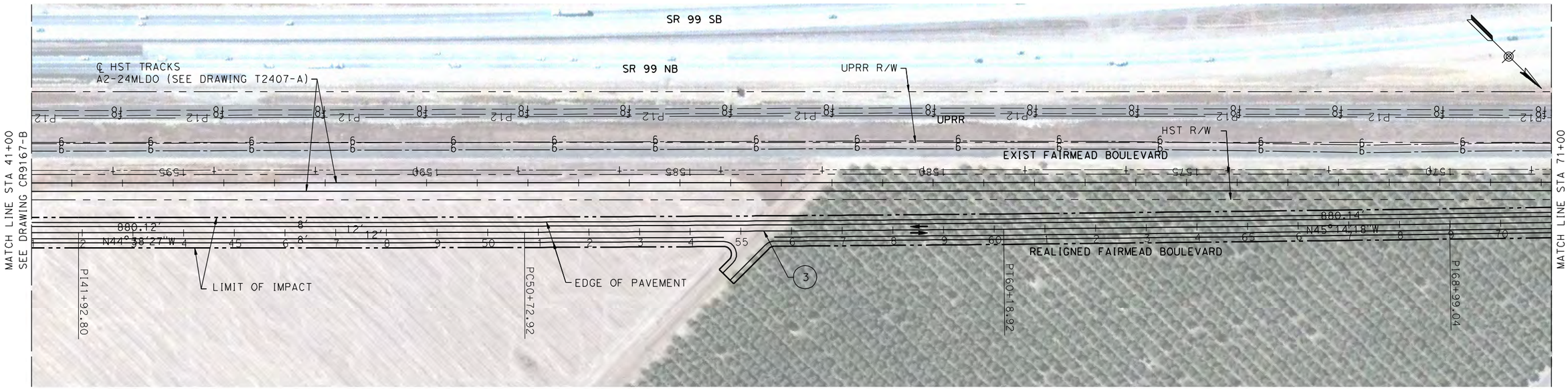
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

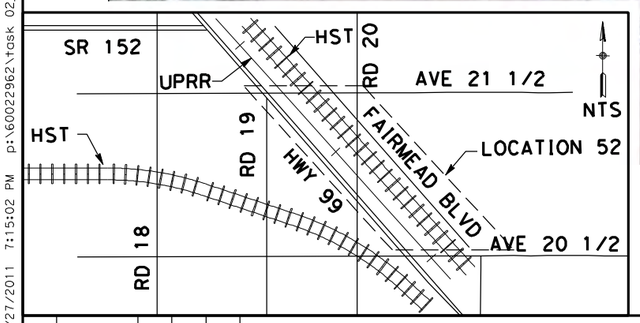
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (WC)
FAIRMEAD BLVD
LAYOUT
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9167-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9168-B.dgn
4/27/2011 7:15:02 PM ReyesC1





CURVE DATA

No.	R	Δ	T	L
③	150046.75	0°21'40"	473.00	945.99
④	9970.00	0°41'51"	60.67	121.35
⑤	500.00	44°30'47"	204.62	388.45
⑥	750.00	46°36'00"	323.00	609.99

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
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
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

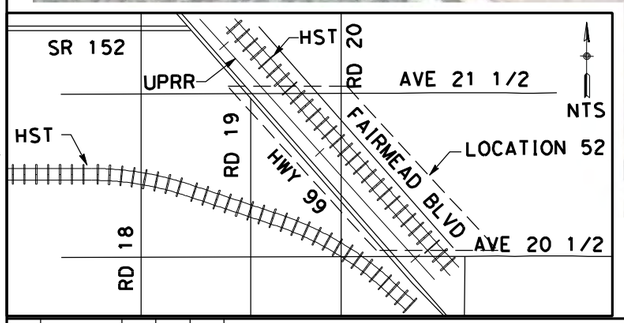
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (WC)
FAIRMEAD BLVD
LAYOUT
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9168-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye & w. chowchilla\volume 3b - ave 24 wye-w.chowchilla local roads\Layout\CR9169-B.dgn
4/27/2011 7:15:30 PM
ReyesC1

MATCH LINE STA 94+00
SEE DRAWING CR9168-B



CURVE DATA

No.	R	Δ	T	L
(6)	750.00	46°36'00"	323.00	609.99

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

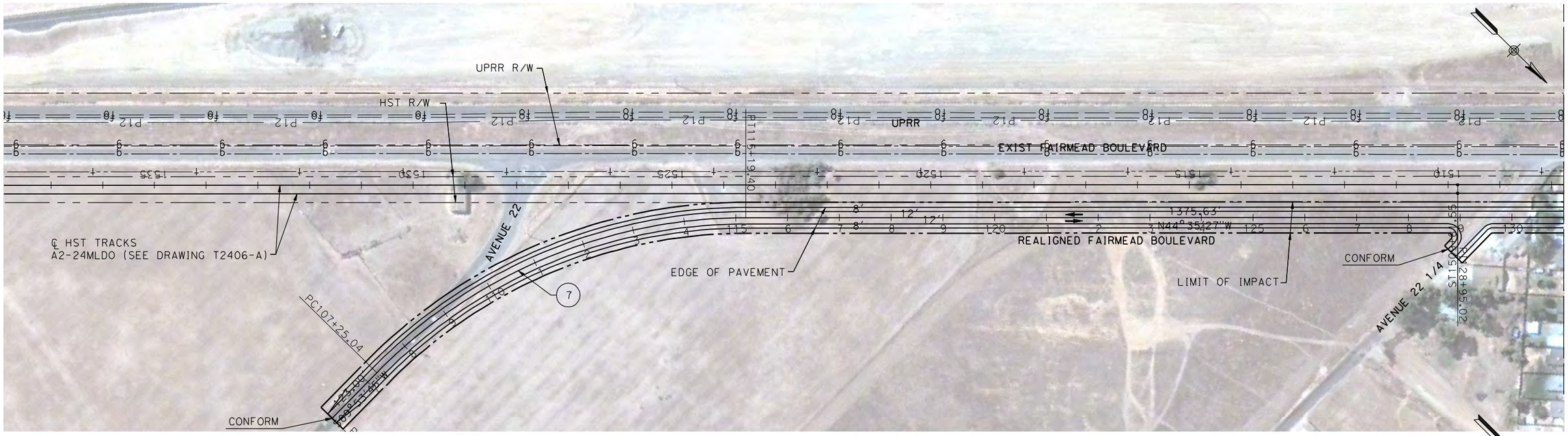
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

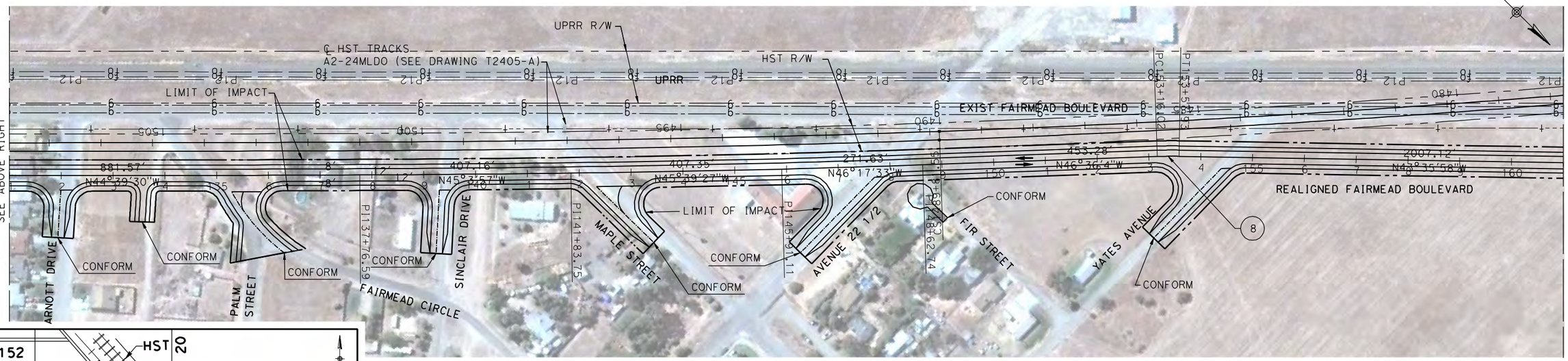
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

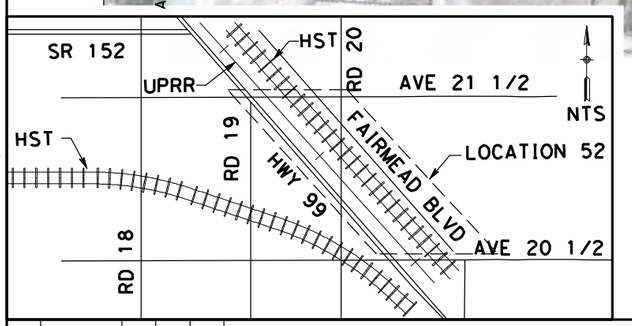
UPRR/SR99 MERCED - (WC)
FAIRMEAD BLVD
LAYOUT
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9169-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:16:18 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 2 - ave 24 wye-w.chowchilla local roads\Layout\CR9170-B.dgn
ReyesC1







CURVE DATA

No.	R	Δ	T	L
⑦	1000.00	45°30'48"	419.47	794.36
⑧	800.00	3°00'06"	20.96	41.91

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

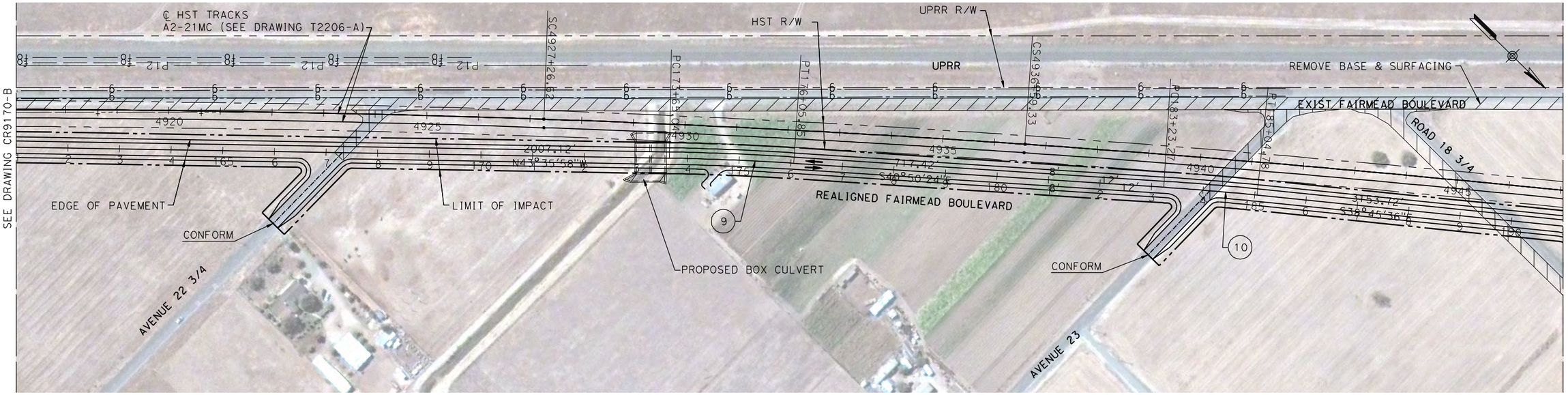
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

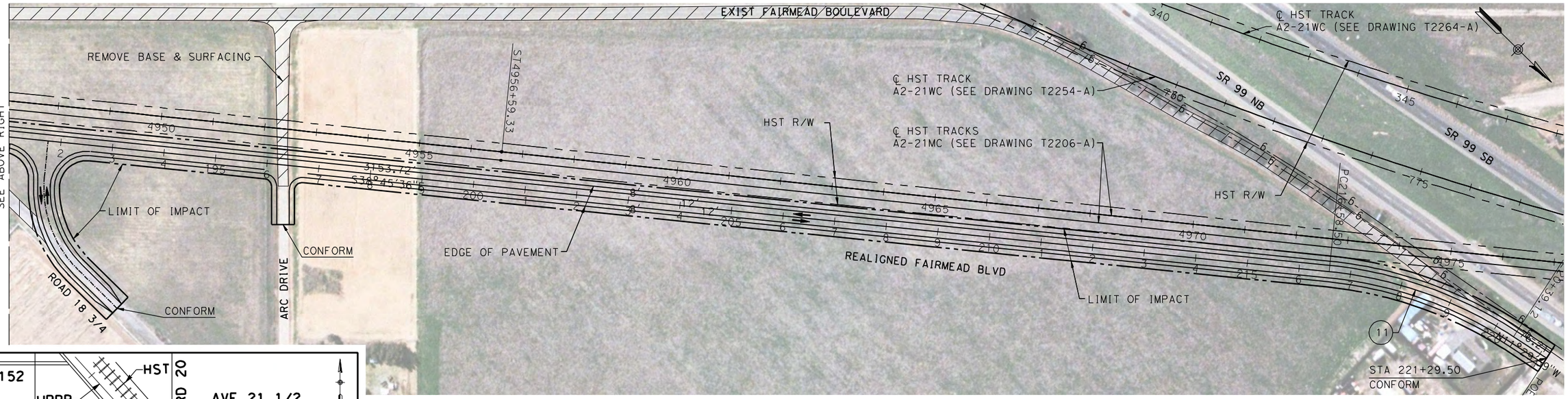
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

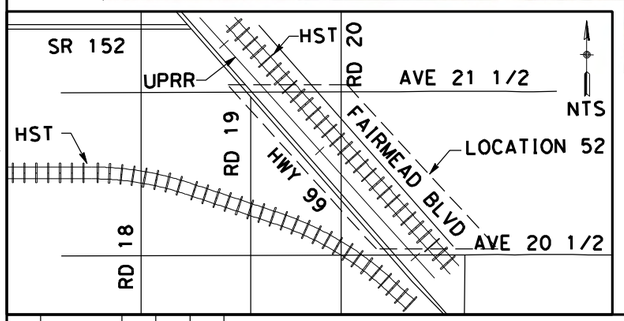
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (WC)
FAIRMEAD BLVD
LAYOUT
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9170-B
SCALE AS SHOWN
SHEET NO. ### OF ###







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(11)	800.00	27°15'37"	193.99	380.63

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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AECOM Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MERCED - (WC)
FAIRMEAD BLVD
LAYOUT
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CR9171-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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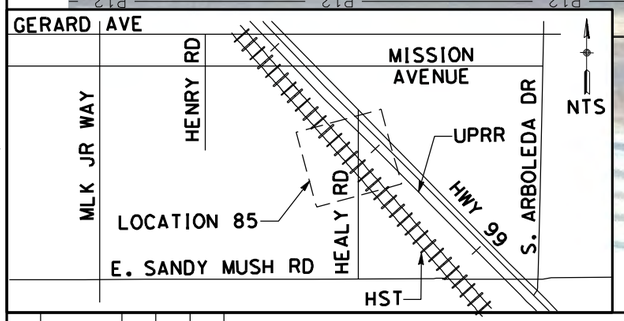

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
HEALY ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9176-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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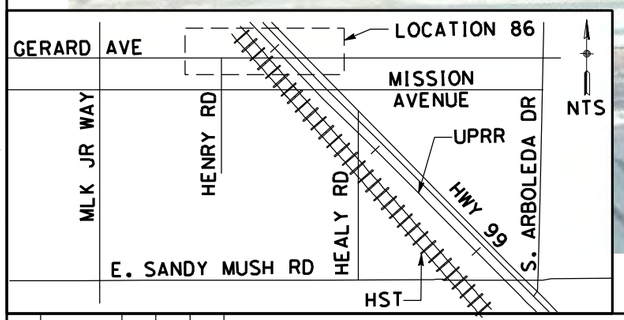

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (AVE 24/WC)
GERARD AVENUE/CALTRANS FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9177-B
SCALE AS SHOWN
SHEET NO. ### OF ###