

California High-Speed Rail Authority

Merced to Fresno Section: Central Valley Wye

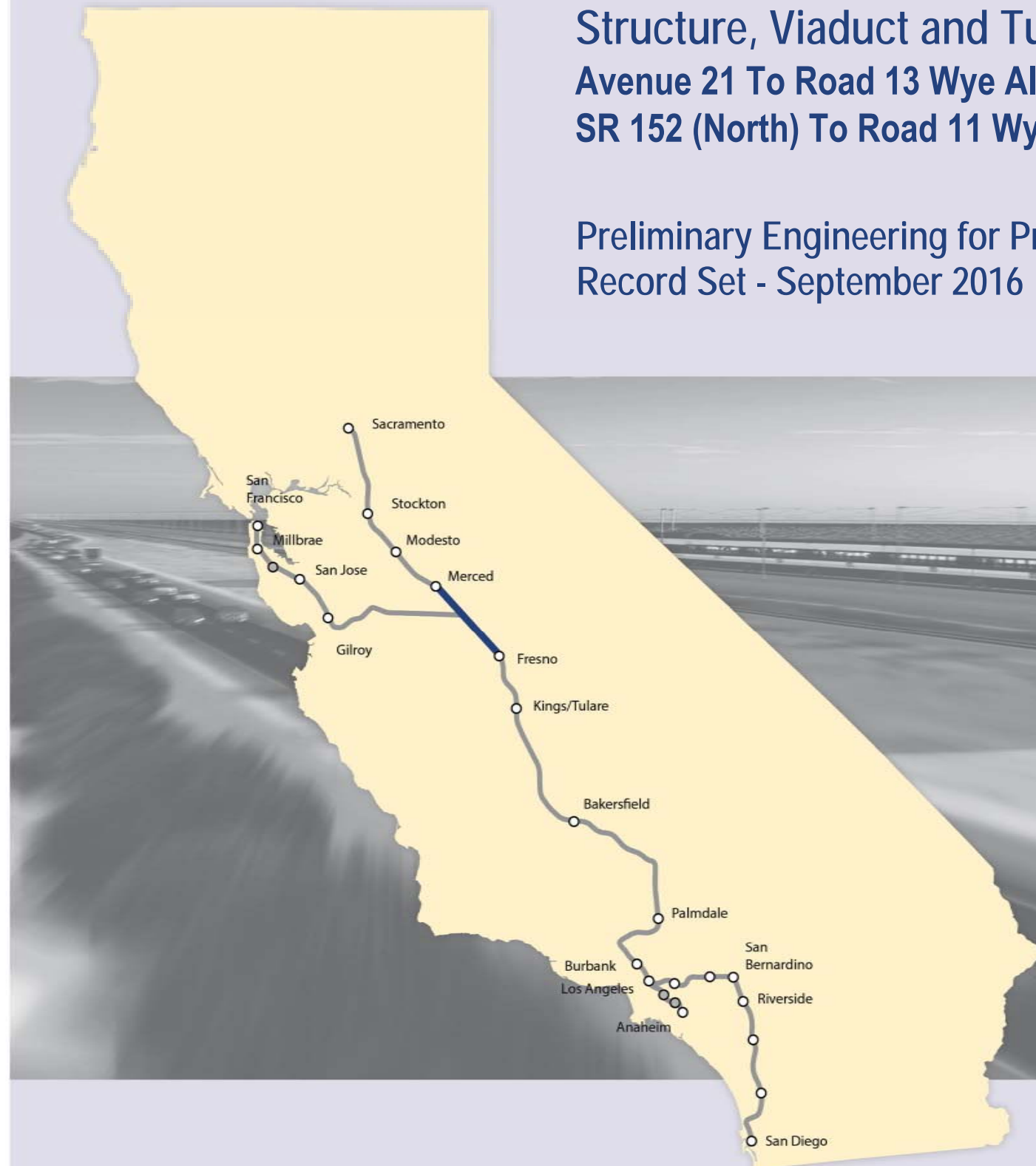
Structure, Viaduct and Tunnel Plans (Book 2 of 2)

Avenue 21 To Road 13 Wye Alternative

SR 152 (North) To Road 11 Wye Alternative

Preliminary Engineering for Project Definition

Record Set - September 2016



MF-ST-B0002.dgn

16-AUG-2016 01:58

p005133g

INDEX OF DRAWINGS				
DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
GENERAL				
ST-B0001	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	COVER	
ST-B0002	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	INDEX OF DRAWINGS	SHEET 1 OF 8
ST-B0003	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	INDEX OF DRAWINGS	SHEET 2 OF 8
ST-B0004	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	INDEX OF DRAWINGS	SHEET 3 OF 8
ST-B0005	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	INDEX OF DRAWINGS	SHEET 4 OF 8
ST-B0006	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	INDEX OF DRAWINGS	SHEET 5 OF 8
ST-B0007	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	INDEX OF DRAWINGS	SHEET 6 OF 8
ST-B0008	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	INDEX OF DRAWINGS	SHEET 7 OF 8
ST-B0009	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	INDEX OF DRAWINGS	SHEET 8 OF 8
ST-B0010	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	ABBREVIATIONS	SHEET 1 OF 2
ST-B0011	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	ABBREVIATIONS	SHEET 2 OF 2
ST-B4000	CENTRAL VALLEY WYE	STRUCTURE, VIADUCT AND TUNNEL PLANS	LOCATION PLAN	
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE				
ST-B4001-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	KEY MAP OF STRUCTURAL PLANS	SHEET 1 OF 2
ST-B4002-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	KEY MAP OF STRUCTURAL PLANS	SHEET 2 OF 2
ST-K1050-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	INDIANA ROAD OVERHEAD
ST-K1060-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	WILLIS ROAD UNDERPASS
ST-K1065-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SAN JOAQUIN RIVER BRIDGE - 1 OF 2
ST-K3065-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	SAN JOAQUIN RIVER BRIDGE - 2 OF 2
ST-K1070-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	MARIPOSA SLOUGH BRIDGE
ST-K1075-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HARMON ROAD UNDERPASS
ST-K1080-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 1 OF 2
ST-K3080-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 2 OF 2
ST-K1100-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 1 OF 4
ST-K1101-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 2 OF 4
ST-K3101-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 3 OF 4
ST-K1102-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 4 OF 4
ST-K1110-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	LINCOLN ROAD (ROAD 4) OVERHEAD
ST-K1160-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HEMLOCK ROAD (ROAD 9) INTERCHANGE - 1 OF 2
ST-K3160-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	HEMLOCK ROAD (ROAD 9) INTERCHANGE - 2 OF 2
ST-K1170-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ASH SLOUGH BRIDGE - 1 OF 2
ST-K3170-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	ASH SLOUGH BRIDGE - 2 OF 2
ST-K1190-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ELM ROAD (ROAD 12) UNDERPASS
ST-K1195-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 152 (ROAD 12) UNDERCROSSING
ST-K1210-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 1 OF 2
ST-K3210-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 2 OF 2
ST-K1220-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA SLOUGH BRIDGE - 1 OF 2
ST-K3220-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	BERENDA SLOUGH BRIDGE - 2 OF 2
ST-K1230-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA WAY (ROAD 16) UNDERPASS
ST-K1235-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA WAY (ROAD 16) INTERCHANGE - 1 OF 2
ST-K3235-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	BERENDA WAY (ROAD 16) INTERCHANGE - 2 OF 2
ST-K1240-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 17 1/2 OVERHEAD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
STRUCTURE, VIADUCT AND TUNNEL PLANS
INDEX OF DRAWINGS
SHEET 1 OF 8

CONTRACT NO. HSR08-05
DRAWING NO. ST-B0002
SCALE NO SCALE
SHEET NO.

MF-ST-B0003.dgn

16-AUG-2016 07:49

p005133g

INDEX OF DRAWINGS				
DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
ST-K1250-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 1 OF 3
ST-K1251-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 2 OF 3
ST-K3250-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 3 OF 3
ST-K1260-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 20 OVERHEAD
ST-K1280-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 22 OVERHEAD
ST-K1310-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AVENUE 20 1/2 OVERHEAD
ST-K1330-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	DRY CREEK BRIDGE
ST-K1420-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 1 OF 6
ST-K1421-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 2 OF 6
ST-K1422-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 3 OF 6
ST-K3420-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 4 OF 6
ST-K3421-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 5 OF 6
ST-K3422-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 6 OF 6
ST-K1430-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	RAILROAD DRIVE UNDERPASS (HST NB)
ST-K1433-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ROBERTSON BOULEVARD (SR 233) UNDERPASS
ST-K1436-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	MADISON ROAD (AVENUE 23 1/2) UNDERPASS
ST-K1450-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	WASHINGTON ROAD (AVENUE 25) UNDERPASS - 1 OF 2
ST-K3450-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	WASHINGTON ROAD (AVENUE 25) UNDERPASS - 2 OF 2
ST-K1455-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ASH SLOUGH BRIDGE - 1 OF 2
ST-K3455-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	ASH SLOUGH BRIDGE - 2 OF 2
ST-K1460-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AVENUE 26 1/2 UNDERPASS
ST-K1470-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CHOWCHILLA RIVER BRIDGE - 1 OF 2
ST-K3470-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	CHOWCHILLA RIVER BRIDGE - 2 OF 2
ST-K1475-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	VISTA AVENUE (ROAD 13) UNDERPASS
ST-K1490-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	DUTCHMAN CREEK BRIDGE
ST-K1495-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ROAD 11 BRIDGE
ST-T1500-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	RETAINED CUT - SANDY MUSH ROAD - 1 OF 2
ST-T3500-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (MER-FRE)	RETAINED CUT - SANDY MUSH ROAD - 2 OF 2
ST-K1500-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	SANDY MUSH ROAD OVERHEAD
ST-K1620-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 1 OF 6
ST-K1621-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 2 OF 6
ST-K1622-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 3 OF 6
ST-K1623-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 4 OF 6
ST-K3620-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 5 OF 6
ST-K3621-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 6 OF 6
ST-K1630-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	ELM ROAD (ROAD 12) UNDERPASS
ST-K1635-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	MADISON ROAD (AVENUE 23 1/2) OVERHEAD
ST-K1650-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 1 OF 5
ST-K1651-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 2 OF 5
ST-K1652-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 3 OF 5
ST-K3650-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 4 OF 5
ST-K3651-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 5 OF 5

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ST-K1655-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	HST SB BRIDGE OVER ASH SLOUGH - 1 OF 2
ST-K3655-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-MER)	HST SB BRIDGE OVER ASH SLOUGH - 2 OF 2
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE				
ST-B4001-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	KEY MAP OF STRUCTURAL PLANS	SHEET 1 OF 2
ST-B4002-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	KEY MAP OF STRUCTURAL PLANS	SHEET 2 OF 2
ST-K1050-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	INDIANA ROAD OVERHEAD
ST-K1060-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	WILLIS ROAD UNDERPASS
ST-K1065-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SAN JOAQUIN RIVER BRIDGE - 1 OF 2
ST-K3065-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	SAN JOAQUIN RIVER BRIDGE - 2 OF 2
ST-K1070-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	MARIPOSA SLOUGH BRIDGE
ST-K1075-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HARMON ROAD UNDERPASS
ST-K1080-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 1 OF 2
ST-K3080-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 2 OF 2
ST-K1100-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 1 OF 4
ST-K1101-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 2 OF 4
ST-K3101-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 3 OF 4
ST-K1102-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 4 OF 4
ST-K1110-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	LINCOLN ROAD (ROAD 4) OVERHEAD
ST-K1160-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HEMLOCK ROAD (ROAD 9) INTERCHANGE - 1 OF 2
ST-K3160-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	HEMLOCK ROAD (ROAD 9) INTERCHANGE - 2 OF 2
ST-K1170-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ASH SLOUGH BRIDGE
ST-K1190-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ELM ROAD (ROAD 12) OVERHEAD
ST-K1210-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 1 OF 2
ST-K3210-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 2 OF 2
ST-K1220-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA SLOUGH BRIDGE
ST-K1230-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA WAY (ROAD 16) UNDERPASS
ST-K1235-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA WAY (ROAD 16) INTERCHANGE - 1 OF 2
ST-K3235-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	BERENDA WAY (ROAD 16) INTERCHANGE - 2 OF 2
ST-K1240-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 17 1/2 UNDERPASS
ST-K1245-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 152 (ROAD 17 1/2) UNDERCROSSING
ST-K1250-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 1 OF 3
ST-K1251-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 2 OF 3
ST-K3250-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 3 OF 3
ST-K1260-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 20 UNDERPASS
ST-K1280-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 22 OVERHEAD
ST-K1310-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AVENUE 20 1/2 OVERHEAD
ST-K1320-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	DRY CREEK BRIDGE
ST-K1420-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 1 OF 5
ST-K1421-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 2 OF 5
ST-K1422-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 3 OF 5
ST-K3420-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 4 OF 5
ST-K3421-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 5 OF 5
ST-K1425-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ROAD 20 UNDERPASS (HST NB)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
STRUCTURE, VIADUCT AND TUNNEL PLANS
INDEX OF DRAWINGS
SHEET 3 OF 8

CONTRACT NO. HSR08-05
DRAWING NO. ST-B0004
SCALE NO SCALE
SHEET NO.

MF-ST-B0005.dgn

16-AUG-2016 7:49

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INDEX OF DRAWINGS				
DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
ST-K1430-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	MADISON ROAD (AVENUE 23 1/2) UNDERPASS
ST-K1435-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AVENUE 24 UNDERPASS
ST-K1450-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	BERENDA SLOUGH BRIDGE - 1 OF 2
ST-K3450-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	BERENDA SLOUGH BRIDGE - 2 OF 2
ST-K1455-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	FAUST ROAD (AVENUE 26) UNDERPASS
ST-K1460-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ASH SLOUGH BRIDGE - 1 OF 2
ST-K3460-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	ASH SLOUGH BRIDGE - 2 OF 2
ST-K1465-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ROAD 19 UNDERPASS
ST-K1480-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CHOWCHILLA RIVER BRIDGE - 1 OF 2
ST-K3480-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	CHOWCHILLA RIVER BRIDGE - 2 OF 2
ST-K1510-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	MINTURN ROAD (ROAD 15) OVERHEAD
ST-T1520-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CUT AND COVER TUNNEL AT SR 99 - 1 OF 5
ST-T1521-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CUT AND COVER TUNNEL AT SR 99 - 2 OF 5
ST-T1522-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CUT AND COVER TUNNEL AT SR 99 - 3 OF 5
ST-T3520-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	CUT AND COVER TUNNEL AT SR 99 - 4 OF 5
ST-T3521-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	CUT AND COVER TUNNEL AT SR 99 - 5 OF 5
ST-T1530-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CUT AND COVER TUNNEL AT UPRR - 1 OF 5
ST-T1531-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CUT AND COVER TUNNEL AT UPRR - 2 OF 5
ST-T1532-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CUT AND COVER TUNNEL AT UPRR - 3 OF 5
ST-T3530-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	CUT AND COVER TUNNEL AT UPRR - 4 OF 5
ST-T3531-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	CUT AND COVER TUNNEL AT UPRR - 5 OF 5
ST-T1540-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CUT AND COVER TUNNEL AT SANDY MUSH ROAD - 1 OF 2
ST-T3540-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	CUT AND COVER TUNNEL AT SANDY MUSH ROAD - 2 OF 2
ST-K1620-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 1 OF 5
ST-K1621-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 2 OF 5
ST-K1622-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 3 OF 5
ST-K3620-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 4 OF 5
ST-K3621-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 5 OF 5
ST-K1625-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	ROAD 17 1/2 UNDERPASS (HST SB)
ST-K1630-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - SOUTHBOUND OVER UPRR / SR 99 - 1 OF 2
ST-K3630-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #5 - SOUTHBOUND OVER UPRR / SR 99 - 2 OF 2
ST-K1635-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #6 - NORTHBOUND OVER UPRR / SR 99 - 1 OF 2
ST-K3635-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (SJD-MER)	AERIAL #6 - NORTHBOUND OVER UPRR / SR 99 - 2 OF 2
ST-K1640-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AVENUE 24 UNDERPASS
ST-K1650-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #7 - NORTHBOUND OVER HST MERCED TO FRESNO - 1 OF 4
ST-K1651-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #7 - NORTHBOUND OVER HST MERCED TO FRESNO - 2 OF 4
ST-K3650-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #7 - NORTHBOUND OVER HST MERCED TO FRESNO - 3 OF 4
ST-K3651-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TYPICAL SECTION (SJD-MER)	AERIAL #7 - NORTHBOUND OVER HST MERCED TO FRESNO - 4 OF 4
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE				
ST-B4001-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	KEY MAP OF STRUCTURAL PLANS	SHEET 1 OF 2
ST-B4002-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	KEY MAP OF STRUCTURAL PLANS	SHEET 2 OF 2
ST-K1050-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	INDIANA ROAD OVERHEAD

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
ST-K1070-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SAN JOAQUIN RIVER BRIDGE - 1 OF 2
ST-K3070-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	SAN JOAQUIN RIVER BRIDGE - 2 OF 2
ST-K1080-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #1 - FRESNO RIVER AND MARIPOSA SLOUGH - 1 OF 2
ST-K3080-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	AERIAL #1 - FRESNO RIVER AND MARIPOSA SLOUGH - 2 OF 2
ST-K1085-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 152 UNDERPASS
ST-K1090-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	FLANAGAN ROAD UNDERPASS
ST-K1100-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #2 - EASTSIDE BYPASS IRRIGATION DITCH - 1 OF 2
ST-K3100-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	AERIAL #2 - EASTSIDE BYPASS IRRIGATION DITCH - 2 OF 2
ST-K1120-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	LINCOLN ROAD (ROAD 4) OVERHEAD
ST-K1150-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	JUNIPER ROAD (ROAD 7) UNDERPASS
ST-K1155-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ASH SLOUGH BRIDGE - 1 OF 2
ST-K3155-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	ASH SLOUGH BRIDGE - 2 OF 2
ST-K1160-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HEMLOCK ROAD (ROAD 9) OVERHEAD
ST-K1200-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROBERTSON BOULEVARD OVERHEAD
ST-K1210-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 14 UNDERPASS
ST-K1220-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA SLOUGH BRIDGE
ST-K1230-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA WAY (ROAD 16) OVERHEAD
ST-K1260-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 19 OVERHEAD
ST-K1270-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 20 UNDERPASS
ST-K1275-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #3 - SR 99 / UPRR - 1 OF 2
ST-K3275-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	AERIAL #3 - SR 99 / UPRR - 2 OF 2
ST-K1290-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 22 OVERHEAD
ST-K1300-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AVENUE 20 1/2 OVERHEAD
ST-K1320-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	DRY CREEK BRIDGE
ST-K1420-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 1 OF 6
ST-K1421-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 2 OF 6
ST-K1422-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 3 OF 6
ST-K1423-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 4 OF 6
ST-K3420-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (MER-FRE)	AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 5 OF 6
ST-K3421-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (MER-FRE)	AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 6 OF 6
ST-K1426-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	HST NB BRIDGE OVER BERENDA SLOUGH
ST-K1430-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ROAD 14 UNDERPASS (HST NB)
ST-K1435-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AVENUE 21 1/2 OVERHEAD
ST-K1440-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ROBERTSON BOULEVARD UNDERPASS
ST-K1445-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AVENUE 22 1/2 UNDERPASS
ST-K1450-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	SR 152 UNDERPASS - 1 OF 2
ST-K3450-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	SR 152 UNDERPASS - 2 OF 2
ST-K1470-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	WASHINGTON ROAD (AVENUE 25) UNDERPASS
ST-K1475-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ASH SLOUGH BRIDGE - 1 OF 2
ST-K3475-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	ASH SLOUGH BRIDGE - 2 OF 2
ST-K1480-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AVENUE 26 1/2 UNDERPASS
ST-K1490-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CHOWCHILLA RIVER BRIDGE - 1 OF 2
ST-K3490-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	CHOWCHILLA RIVER BRIDGE - 2 OF 2

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWING NO. ST-B0006
SCALE NO SCALE
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MF-ST-B0007.dgn

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DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
ST-K1495-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	VISTA AVENUE (ROAD 13) UNDERPASS
ST-K1510-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	DUTCHMAN CREEK BRIDGE
ST-K1515-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ROAD 11 BRIDGE
ST-T1520-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	RETAINED CUT - SANDY MUSH ROAD - 1 OF 2
ST-T3520-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (MER-FRE)	RETAINED CUT - SANDY MUSH ROAD - 2 OF 2
ST-K1520-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	SANDY MUSH ROAD OVERHEAD
ST-K1620-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 1 OF 5
ST-K1621-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 2 OF 5
ST-K1622-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 3 OF 5
ST-K3620-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 4 OF 5
ST-K3621-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 5 OF 5
ST-K1630-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AVENUE 21 1/2 OVERHEAD
ST-K1640-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 1 OF 6
ST-K1641-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 2 OF 6
ST-K1642-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 3 OF 6
ST-K1643-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 4 OF 6
ST-K3640-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 5 OF 6
ST-K3641-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 6 OF 6
ST-K1646-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AVENUE 22 1/2 UNDERPASS (HST SB)
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE				
ST-B4001-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	KEY MAP OF STRUCTURAL PLANS	SHEET 1 OF 2
ST-B4002-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	KEY MAP OF STRUCTURAL PLANS	SHEET 2 OF 2
ST-K1050-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	INDIANA ROAD OVERHEAD
ST-K1055-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	WOOD SLOUGH BRIDGE
ST-K1060-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	WILLIS ROAD UNDERPASS
ST-K1065-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SAN JOAQUIN RIVER BRIDGE - 1 OF 2
ST-K3065-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	SAN JOAQUIN RIVER BRIDGE - 2 OF 2
ST-K1070-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	MARIPOSA SLOUGH BRIDGE
ST-K1075-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HARMON ROAD UNDERPASS
ST-K1080-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 1 OF 2
ST-K3080-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 2 OF 2
ST-K1100-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 1 OF 4
ST-K1101-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 2 OF 4
ST-K3101-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 3 OF 4
ST-K1102-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 59 / SR 152 INTERCHANGE - 4 OF 4
ST-K1110-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	LINCOLN ROAD (ROAD 4) OVERHEAD
ST-K1160-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HEMLOCK ROAD (ROAD 9) UNDERPASS
ST-K1161-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HEMLOCK ROAD (ROAD 9) INTERCHANGE - 1 OF 2
ST-K3161-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	HEMLOCK ROAD (ROAD 9) INTERCHANGE - 2 OF 2
ST-K1170-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ASH SLOUGH BRIDGE - 1 OF 2
ST-K3170-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	ASH SLOUGH BRIDGE - 2 OF 2
ST-K1190-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ELM ROAD (ROAD 12) UNDERPASS
ST-K1195-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	SR 152 (ROAD 12) UNDERCROSSING

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
STRUCTURE, VIADUCT AND TUNNEL PLANS
INDEX OF DRAWINGS
SHEET 6 OF 8

CONTRACT NO. HSR08-05
DRAWING NO. ST-B0007
SCALE NO SCALE
SHEET NO.

p005133g MF-ST-B0008.dgn 16-AUG-2016 01:59

INDEX OF DRAWINGS				
DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
ST-K1210-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 1 OF 2
ST-K3210-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 2 OF 2
ST-K1220-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA SLOUGH BRIDGE - 1 OF 2
ST-K3220-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	BERENDA SLOUGH BRIDGE - 2 OF 2
ST-K1230-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA WAY (ROAD 16) UNDERPASS
ST-K1235-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA WAY (ROAD 16) INTERCHANGE - 1 OF 2
ST-K3235-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (SJD-FRE)	BERENDA WAY (ROAD 16) INTERCHANGE - 2 OF 2
ST-K1240-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 17 1/2 OVERHEAD
ST-K1250-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 1 OF 3
ST-K1251-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 2 OF 3
ST-K3250-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-FRE)	AERIAL #2 - SR 99 / UPRR - 3 OF 3
ST-K1260-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 20 OVERHEAD
ST-K1280-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	ROAD 22 OVERHEAD
ST-K1300-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	BERENDA CREEK BRIDGE
ST-K1310-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	AVENUE 20 1/2 OVERHEAD
ST-K1330-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	DRY CREEK BRIDGE
ST-K1410-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 1 OF 6
ST-K1411-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 2 OF 6
ST-K1412-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 3 OF 6
ST-K3410-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 4 OF 6
ST-K3411-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 5 OF 6
ST-K3412-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (MER-FRE)	AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 6 OF 6
ST-K1430-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ROAD 12 UNDERPASS
ST-K1435-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	MADISON ROAD (AVENUE 23 1/2) UNDERPASS
ST-K1440-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	ASH SLOUGH BRIDGE - 1 OF 2
ST-K3440-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	ASH SLOUGH BRIDGE - 2 OF 2
ST-K1450-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	WASHINGTON ROAD (AVENUE 25) UNDERPASS - 1 OF 2
ST-K3450-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTION (MER-FRE)	WASHINGTON ROAD (AVENUE 25) UNDERPASS - 2 OF 2
ST-K1455-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	CHOWCHILLA RIVER BRIDGE
ST-K1460-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	AVENUE 26 UNDERPASS
ST-K1490-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	DUTCHMAN CREEK BRIDGE
ST-K1495-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	SANDY MUSH ROAD UNDERPASS
ST-K1510-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	DEADMAN CREEK BRIDGE No. 1
ST-K1515-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (MER-FRE)	DEADMAN CREEK BRIDGE No. 2
ST-K1610-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 1 OF 5
ST-K1611-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 2 OF 5
ST-K1612-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 3 OF 5
ST-K3610-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 4 OF 5
ST-K3611-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 5 OF 5
ST-K1620-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-FRE)	HEMLOCK ROAD (ROAD 9) UNDERPASS
ST-K1630-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	MADISON ROAD (AVENUE 23 1/2) OVERHEAD
ST-K1640-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 1 OF 6

REV	DATE	BY	CHK	APP	DESCRIPTION

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SHEET NO.

p005133g 16-AUG-2016 01:59 MF-ST-B0009.dgn

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DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
ST-K1641-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 2 OF 6
ST-K1642-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 3 OF 6
ST-K1643-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 4 OF 6
ST-K3640-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 5 OF 6
ST-K3641-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TYPICAL SECTIONS (SJD-MER)	AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 6 OF 6
ST-K1650-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	ROAD 11 UNDERPASS
ST-K1653-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	WASHINGTON ROAD (AVENUE 25) UNDERPASS
ST-K1656-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	GENERAL PLAN (SJD-MER)	CHOWCHILLA RIVER BRIDGE

REV	DATE	BY	CHK	APP	DESCRIPTION

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A. M.
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CONTRACT NO.
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SCALE
NO SCALE
SHEET NO.

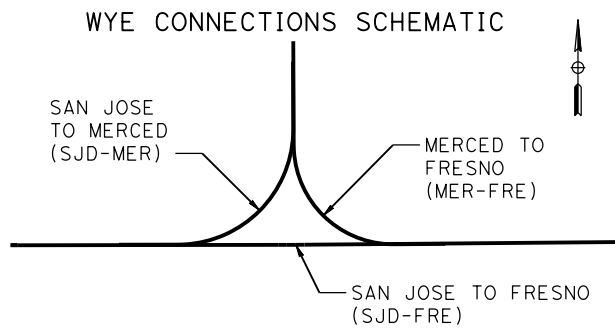
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A					C					D CONTINUED					F CONTINUED					J CONTINUED				
AB	AGGREGATE BASE	CAA	CABLE ANCHOR ASSEMBLY	DET	DETAIL, DETOUR	FNTB	FACING NORTHBOUND TRAFFIC	JS	JUNCTION STRUCTURE															
ABBC	ASBESTOS BONDED BITUMINOUS COATED	CAP	CORRUGATED ALUMINUM PIPE	DF	DOUGLAS FIR, DIRECT FIXATION	FOB	FREE ON BOARD	JT	JOINT															
ABM	AIR-BLOWN MORTAR	CAPA	CORRUGATED ALUMINUM PIPE ARCH	DI	DRAINAGE INLET, DROP INLET	FOC	FACE OF CONCRETE																	
ABN	ABANDON	CAS	CONSTRUCTION AREA SIGN	DIA	DIAMETER	FR RD	FRONTAGE ROAD																	
ABUT	ABUTMENT	CB	CONCRETE BARRIER	DIAPH	DIAPHRAGM	FRE	FRESNO	L	LENGTH															
AC	ASPHALT CONCRETE	CBW	CONCRETE BLOCK WALL	DIST	DISTANCE, DISTRICT	FS	FAR SIDE, FINISHED SURFACE	LAT	LATITUDE															
ACB	ASPHALT CONCRETE BASE	C-C	CENTER TO CENTER	DMBB	DOUBLE METAL BEAM BARRIER	FSBT	FACING SOUTHBOUND TRAFFIC	LCB	LEAN CONCRETE BASE															
ACP	ASBESTOS CEMENT PIPE	CHSRA	CALIFORNIA HIGH-SPEED RAIL	DR	DRIVE	FTG	FOOTING	LLT	LAST LONG TIE															
ADL	ADDED DEAD LOAD		AUTHORITY (SEE AUTHORITY)	DTBB	DOUBLE THRIE BEAM BARRIER	FWBT	FACING WESTBOUND TRAFFIC	LN	LANE															
ADJ	ADJUST	CHSR	CALIFORNIA HIGH-SPEED RAIL	DWY	DRIVEWAY	FWY	FREEWAY	LOC	LOCATION															
AFES	ALTERNATIVE FLARED END SECTION	CHST	CALIFORNIA HIGH-SPEED TRAIN					LOL	LAYOUT LINE															
AHD	AHEAD	CG	CENTER OF GRAVITY					LONG	LONGITUDE															
ALT	ALTERNATE	CHNL	CHANNEL	E	EAST	G	GRADE, ACCELERATION DUE TO GRAVITY	LONGIT	LONGITUDINAL															
AM	TIME FROM MIDNIGHT TO NOON	CI	CAST IRON	EA	ACTUAL SUPERELEVATION			LS	LUMP SUM, LENGTH OF SPIRAL															
AP	ALTERNATIVE PIPE	CIDH	CAST-IN-DRILLED-HOLE	EASE	EASEMENT	GA	GAGE	LT	LEFT															
APC	ALTERNATIVE PIPE CULVERT	CIP	CAST-IN-PLACE, CAST IRON PIPE	EB	END OF BRIDGE, EASTBOUND	GALV	GALVANIZED	LVC	LENGTH OF VERTICAL CURVE															
APPROX	APPROXIMATE	CIPCP	CAST-IN-PLACE CONCRETE PIPE	EC	END HORIZONTAL CURVE	GP	GRADING PLANE																	
APU	ALTERNATIVE PIPE UNDERDRAIN	CISS	CAST-IN-STEEL SHELL	ED	END CURB RETURN	GR	GUARD RAILING																	
AR	ACCESS RESTRICTION	CJP	COMPLETE JOINT PENETRATION	EDC	EDGE DRAIN	GRDR	GIRDER																	
ARS	ACCELERATION RESPONSE SPECTRUM	CL	CHAIN LINK, CLASS	EDV	EDGE DRAIN CLEANOUT	GSP	GALVANIZED STEEL PIPE	MAINT	MAINTENANCE															
AS	AGGREGATE SUBBASE	CL-6	CHAIN LINK FENCE (6 FT)	EDO	EDGE DRAIN OUTLET	GTR	GUTTER	MAX	MAXIMUM															
ASRP	ALUMINUM SPIRAL RIB PIPE	CLR	CLEAR, CLEARANCE	EDV	EDGE DRAIN VENT			MB	METAL BEAM															
ASSY	ASSEMBLY	CM	CORRUGATED METAL	ELEC	ELECTROLIER			MBB	METAL BEAM BARRIER															
ATC	AUTOMATIC TRAIN CONTROL	CMP	CORRUGATED METAL PIPE	ELECT	ELECTRIC	H	HEIGHT	MBGR	METAL BEAM GUARD RAILING															
ATPB	ASPHALT TREATED PERMEABLE BASE	CO	COUNTY	ELEV	ELEVATION	H, HR	HOUR	MED	MEDIAN															
ATPM	ASPHALT TREATED PERMEABLE MATERIAL	COL	COLUMN	EMB	EMBANKMENT	HD	HORIZONTAL DRAIN	MER	MERCED															
AUTHORITY	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CONC	CONCRETE	ENGR	ENGINEER	HDWL	HEADWALL	MF	MERCED TO FRESNO															
AVE	AVENUE	COND	CONDUIT	EOD	EDGE OF DECK	HEX HD	HEXAGONAL HEAD	MH	MANHOLE															
AVG	AVERAGE	CONN	CONNECTOR	EP	EDGE OF PAVEMENT	HMA	HOT MIXED ASPHALT	MIN	MINIMUM															
@	AT	CONST	CONSTRUCT, CONSTRUCTION	EQ	EQUATION	HORIZ	HORIZONTAL	MISC	MISCELLANEOUS															
B					E					G					H					M				
BAGR	BRIDGE APPROACH GUARD RAILING	COORD	COORDINATE	ES	EDGE OF SHOULDER	HP	HINGE POINT, HORSEPOWER	MISC I & S	MISCELLANEOUS IRON AND STEEL															
BB	BEGINNING OF BRIDGE	CP	CANDLEPOWER	ET	END TUNNEL	HPS	HIGH PERFORMANCE STEEL	MKR	MARKER															
B-B	BACK-TO-BACK	CP1	CONSTRUCTION PACKAGE 1	ETW	EDGE OF TRAVELED WAY	HS	HIGH STRENGTH	MOD	MODIFIED, MODIFY															
BC	BEGIN HORIZONTAL CURVE	CR	CREEK	EU	UNBALANCED SUPERELEVATION	HSR	HIGH-SPEED RAIL	MON	MONUMENT															
BCR	BEGIN CURB RETURN	CRCP	CONTINUOUS REINFORCED CONCRETE PAVEMENT	EVC	END VERTICAL CURVE	HST	HIGH-SPEED TRAIN	MOW	MAINTENANCE-OF-WAY FACILITY															
BEG	BEGIN	CRSP	CONCRETED ROCK SLOPE PROTECTION	EW	ENDWALL	HW	HEADWALL, 100-YR HIGH WATER (UNLESS NOTED OTHERWISE)	MP	METAL PLATE															
BIT CTD	BITUMINOUS COATED	CRZ	CLEAR RECOVERY ZONE	EXC	EXCAVATION			MPGR	METAL PLATE GUARD RAILING															
BK	BACK	CRZ	CLEAR RECOVERY ZONE	EXIST, (E)	EXISTING			MPH	MILES PER HOUR															
BKF	BACKFILL	CS	CURVE SPIRAL POINT	EXP	EXPANSION, EXPRESSWAY	HWM	HIGH WATER MARK	MR	MOVEMENT RATING															
BLDG	BUILDING	CSP	CORRUGATED STEEL PIPE	EXP JT	EXPANSION JOINT	HWY	HIGHWAY	MSE	MECHANICALLY STABILIZED EARTH															
BLM	BRIDGE-LOG MILE	CSPA	CORRUGATED STEEL PIPE ARCH	EXT	EXTERIOR			MTL	MATERIAL															
BLVD	BOULEVARD	CTB	CEMENT TREATED BASE	F					I					N										
BM	BENCH MARK	CTPB	CEMENT TREATED PERMEABLE BASE	F & C	FRAME AND COVER	IB	IMPORTED BORROW	N	NORTH															
BOT	BOTTOM	CTPM	CEMENT TREATED PERMEABLE MATERIAL	F & G	FRAME AND GRATE	ID	INSIDE DIAMETER	NB	NORTHBOUND															
BNSF	BNSF RAILWAY	CTRS	CENTERS	FB	FLOOR BEAM	IF	INSIDE FACE	NC	NORMAL CROWN															
BR	BRIDGE	CULV	CULVERT	FDN	FOUNDATION	INT	INTERIOR	NIC	NOT IN CONTRACT															
BRG	BEARING	@	CENTERLINE	FEBT	FACING EASTBOUND TRAFFIC	INV	INVERT	NO.	NUMBER (MUST HAVE PERIOD)															
BT	BEGIN TUNNEL			FES	FLARED END SECTION	IRR	IRRIGATION	NOS.	NUMBERS (MUST HAVE PERIOD)															
BTU	BRITISH THERMAL UNIT			FF	FILTER FABRIC	IS	INTERLOCKING SITE	NPS	NOMINAL PIPE SIZE															
BVC	BEGIN VERTICAL CURVE	D	DEPTH	FG	FINISHED GRADE			NS	NEAR SIDE															
BW	BARBED WIRE	DD	DOWNDRAIN	FH	FIRE HYDRANT	JCT	JUNCTION	NTS	NOT TO SCALE															
		DBL	DOUBLE	FIG	FIGURE	JP	JOINT POLE																	
		DEG	DEGREE	FL	FLOW LINE	JPCP	JOINTED PLAIN CONCRETE PAVEMENT																	
		DEL	DELINEATOR					OBLR	OBLITERATE															

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O CONTINUED					P CONTINUED					S CONTINUED					T CONTINUED				
OC	OVERCROSSING				PVI	POINT OF VERTICAL INTERSECTION				SJM	SAN JOSE TO MERCED				TS	TRANSVERSE, TRAFFIC SIGNAL,			
OCS	OVERHEAD CONTACT SYSTEM				PVMT	PAVEMENT				SJV	SAN JOAQUIN VALLEY					TUBULAR STEEL, TANGENT SPIRAL POINT			
OD	OUTSIDE DIAMETER				PVT	POINT OF VERTICAL TANGENT				S	STATION LINE				TYP	TYPICAL			
OF	OUTSIDE FACE									SM	SELECTED MATERIAL								
OG	ORIGINAL GROUND									SPEC	SPECIAL, SPECIFICATIONS								
OGAC	OPEN GRADED ASPHALT CONCRETE				QTY	QUANTITY				SPP	SLOTTED PLASTIC PIPE				UC	UNDERCROSSING			
OH	OVERHEAD									SR	STATE ROUTE				UD	UNDERDRAIN			
O-O	OUT TO OUT									SRS	STANDALONE RADIO SITE				UON	UNLESS OTHERWISE NOTED			
OPP	OPPOSITE				R	RADIUS				SS	SLOPE STAKE, SUBSTATION				UP	UNDERPASS			
					R & D	REMOVE AND DISPOSE				SSBM	STRAP AND SADDLE BRACKET METHOD				UPRR	UNION PACIFIC RAILROAD			
					R & S	REMOVE AND SALVAGE				SSD	STRUCTURAL SECTION DRAIN				UXO	UNIVERSAL CROSSOVER			
P	PAGE				R/C	RATE OF CHANGE				SSPA	STRUCTURAL STEEL PLATE ARCH								
PAP	PERFORATED ALUMINUM PIPE				RCA	REINFORCED CONCRETE ARCH				SSPP	STRUCTURAL STEEL PLATE PIPE								
PB	PULL BOX, PHASE BREAK				RCB	REINFORCED CONCRETE BOX				SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH				V	DESIGN SPEED, VALVE			
PC	POINT OF CURVATURE, PRECAST				RCP	REINFORCED CONCRETE PIPE				SSRP	STEEL SPIRAL RIB PIPE				VAR	VARIABLE			
PCC	POINT OF COMPOUND CURVE,				RCPA	REINFORCED CONCRETE PIPE ARCH				ST	STREET, SPIRAL TANGENT POINT				VC	VERTICAL CURVE			
	PORTLAND CEMENT CONCRETE				RD	ROAD				STA	STATION				VCP	VITRIFIED CLAY PIPE			
PCP	PERFORATED CONCRETE PIPE,				REINF	REINFORCED, REINFORCEMENT,				STBB	SINGLE THRIE BEAM BARRIER				VERT	VERTICAL			
	PRESTRESSED CONCRETE PIPE					REINFORCING				STD	STANDARD				VIA	VIADUCT			
PCVC	POINT OF COMPOUND VERTICAL CURVE				REL	RELOCATE				STR	STRUCTURE				VOL	VOLUME			
PED	PEDESTRIAN				REPL	REPLACEMENT				SURF	SURFACING								
PED OC	PEDESTRIAN OVERCROSSING				RET	RETAINING				SW	SIDEWALK, SOUND WALL								
PED UC	PEDESTRIAN UNDERCROSSING				REV	REVISED				SWR	SEWER				W	WEST, WIDTH			
PERM MTL	PERMEABLE MATERIAL				RDWY	ROADWAY				SWS	SWITCHING STATION				WB	WESTBOUND			
PG	PROFILE GRADE				RM	ROAD-MIXED				SYM	SYMMETRICAL				WCB	WORLD COORDINATE BEARING			
PG&E	PACIFIC GAS AND ELECTRIC				RP	RADIUS POINT,				S4S	SURFACE 4 SIDES				WH	WEEP HOLE			
PI	POINT OF INTERSECTION					REFERENCE POINT									WM	WIRE MESH			
PITO	POINT OF INTERSECTION TURNOUT				RR	RAILROAD									WS	WATER SURFACE			
PJP	PARTIAL JOINT PENETRATION				RSP	ROCK SLOPE PROTECTION				T	SEMI-TANGENT				WSP	WELDED STEEL PIPE			
PL, PL	PLATE				RT	RIGHT				TAB	TABLET				WT	WEIGHT			
P/L	PROPERTY LINE				RTE	ROUTE				TAN	TANGENT				WV	WATER VALVE			
PM	POST MILE,				RW	REDWOOD,				TBB	THRIE BEAM BARRIER				WW	WINGWALL			
	TIME FROM NOON TO MIDNIGHT					RETAINING WALL				TBD	TO BE DETERMINED				WWLOL	WINGWALL LAYOUT LINE			
PN	PAVING NOTCH				R/W	RIGHT-OF-WAY				TBR	TIMBER								
POB	POINT OF BEGINNING				RWY	RAILWAY				TC	TOP OF CURB, TRAIN CONTROL								
POC	POINT OF HORIZONTAL CURVE									TCB	TRAFFIC CONTROL BOX				X SEC	CROSS SECTION			
POE	POINT OF END									TCE	TEMPORARY CONSTRUCTION EASEMENT				XING	CROSSING			
POT	POINT OF TANGENT				S	SOUTH, SUPPLEMENT				TEL	TELEPHONE				XO	CROSSOVER			
POVC	POINT OF VERTICAL CURVE				SAE	STRUCTURE APPROACH EMBANKMENT				TEMP	TEMPORARY								
PP	PIPE PILE, PLASTIC PIPE,				SALV	SALVAGE				TG	TOP OF GRADE								
	POWER POLE				SAPP	STRUCTURAL ALUMINUM PLATE PIPE				TM	TECHNICAL MEMORANDUM				YR	YEAR			
PPL	PREFORMED PERMEABLE LINER				SB	SOUTHBOUND				TO	TURNOUT				YRS	YEARS			
PPP	PERFORATED PLASTIC PIPE				SC	SAND CUSHION, SPIRAL CURVE POINT				TOT	TOTAL								
PRC	POINT OF REVERSE CURVE				SCSP	SLOTTED CORRUGATED STEEL PIPE				TP	TELEPHONE POLE								
PRF	PAVEMENT REINFORCING FABRIC				SD	STORM DRAIN				TPB	TREATED PERMEABLE BASE								
PRVC	POINT OF REVERSE VERTICAL CURVE				SEC	SECOND, SECTION				TPF	TRACTION POWER FACILITY								
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES				SEP	SEPARATION				TPM	TREATED PERMEABLE MATERIAL								
PS, P/S	POINT OF SWITCH, PRESTRESSED,				SG	SUBGRADE				TPSS	TRACTION POWER SUBSTATION								
	PARALLELING STATION				SHLD	SHOULDER				T/R	TOP OF RAIL								
PSP	PERFORATED STEEL PIPE				SHT	SHEET				TRANS	TRANSITION								
PT	POINT OF TANGENCY				SIM	SIMILAR				TRK	TRACK								
PVC	POLYVINYL CHLORIDE,				SJD	SAN JOSE DIRIDON STATION													
	POINT OF VERTICAL CURVE																		

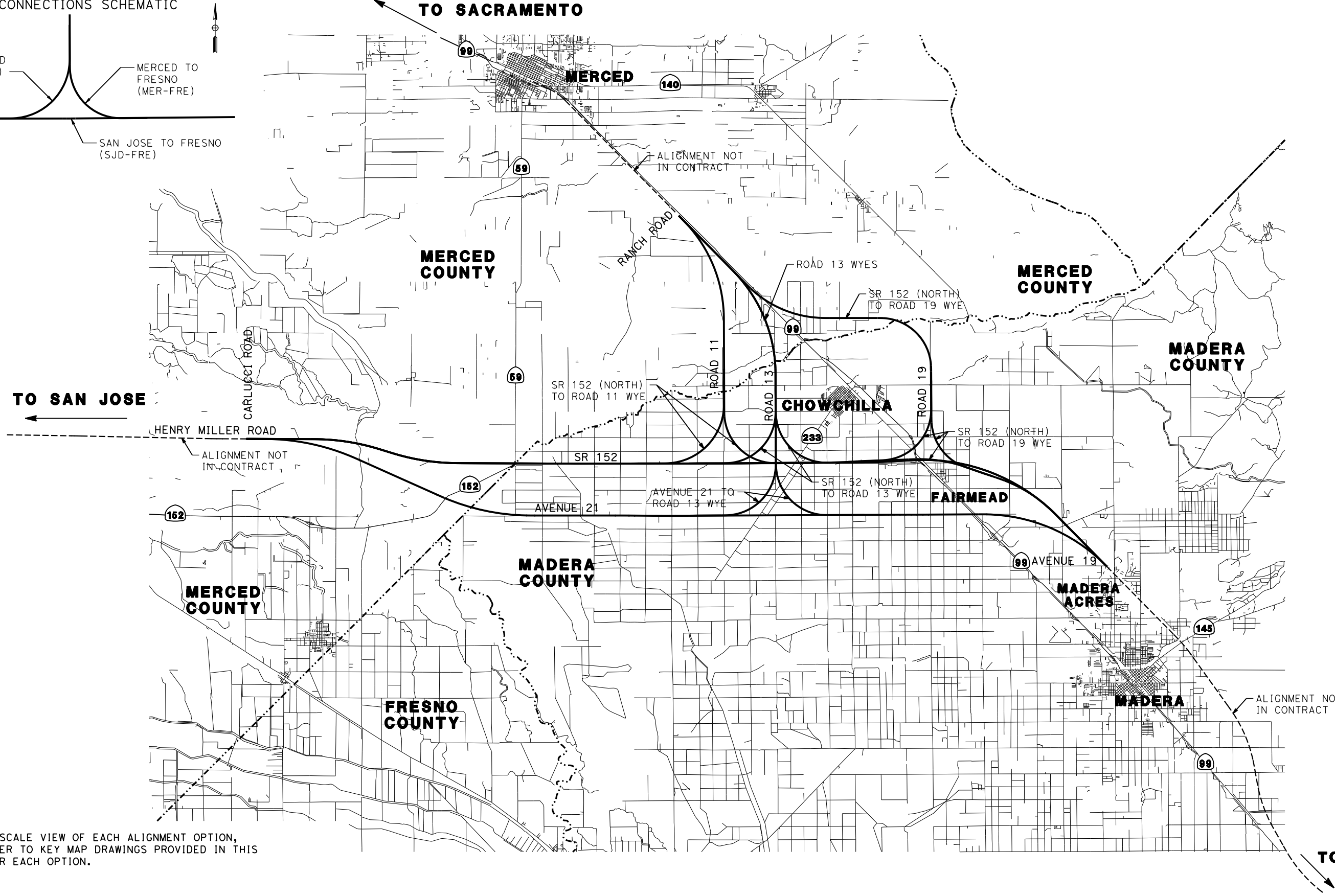
						DESIGNED BY C. LEMLEY	RECORD SET 15% DESIGN SUBMITTAL			CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE STRUCTURE, VIADUCT AND TUNNEL PLANS ABBREVIATIONS SHEET 2 OF 2	CONTRACT NO. HSR08-05
						DRAWN BY J. KIDWELL					DRAWING NO. ST-B0011
						CHECKED BY A. M.					SCALE NO SCALE
						IN CHARGE C. LEMLEY					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 08/12/2016					



TO SAN JOSE

TO SACRAMENTO

TO FRESNO



NOTE:
FOR LARGE SCALE VIEW OF EACH ALIGNMENT OPTION,
PLEASE REFER TO KEY MAP DRAWINGS PROVIDED IN THIS
PACKAGE FOR EACH OPTION.

16-AUG-2016 10:17:50 MF-ST-B4000.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. LEMLEY

DRAWN BY
J. KIDWELL

CHECKED BY
A. GURA

IN CHARGE
C. LEMLEY

DATE
08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
STRUCTURE, VIADUCT AND TUNNEL PLANS
LOCATION PLAN

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-B4000

SCALE
NTS

SHEET NO.



NOTES:

ST-K - INDICATES AERIAL, CROSSING, AND GRADE SEPARATION DRAWINGS

ST-T - INDICATES RETAINED CUT DRAWINGS

KEY PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S
DRAWN BY R. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
KEY MAP OF STRUCTURAL PLANS
SHEET 1 OF 2

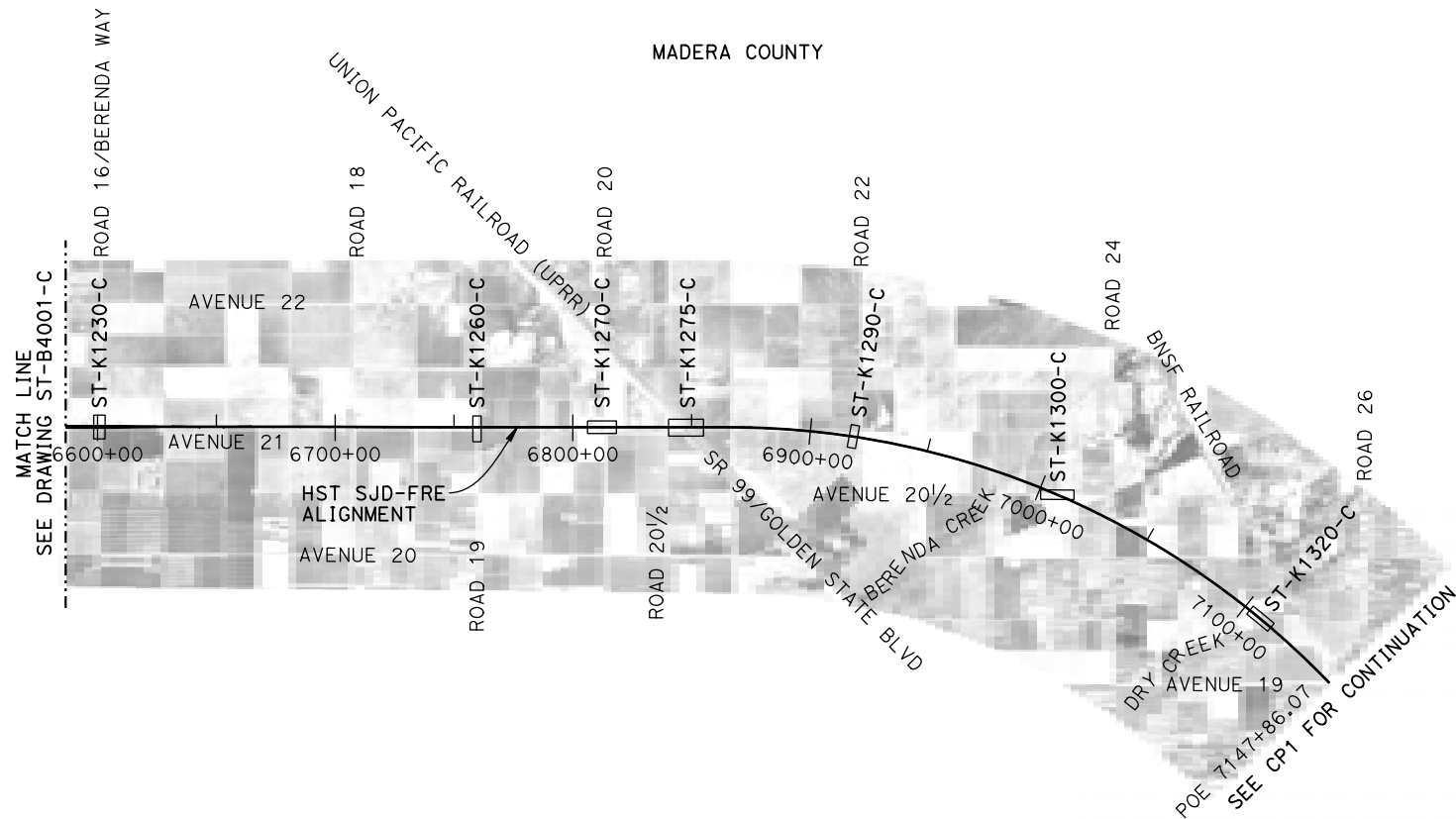
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-B4001-C

SCALE
N. T. S.

SHEET NO.

p0042226 17-MAR-2016 8:02 MF-ST-B4002-C.dgn



KEY PLAN



NOTES:
ST-K - INDICATES AERIAL,
CROSSING, AND GRADE
SEPARATION DRAWINGS

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S
DRAWN BY R. M.
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

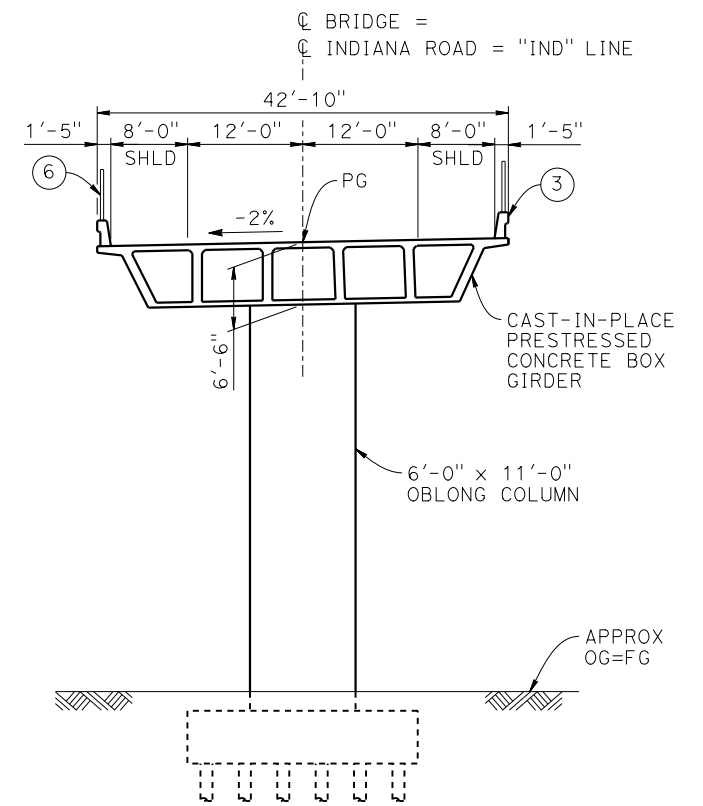
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION




CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
KEY MAP OF STRUCTURAL PLANS
SHEET 2 OF 2

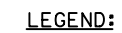
CONTRACT NO. HSR08-05
DRAWING NO. ST-B4002-C
SCALE N. T. S.
SHEET NO.











DEVELOPED ELEVATION

CURVE NO. 050-02 

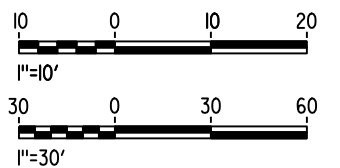
1 - 404.99



- | | |
|---|---|
|  | INDICATES POINT OF MINIMUM VERTICAL CLEARANCE |
|  | INDICATES DIRECTION OF TRAFFIC |
|  | PAINT "INDIANA ROAD OVERHEAD" |
|  | PAINT "BRIDGE NO. XX-XXXX" |
|  | CONCRETE BARRIER TYPE 736 MOD |
|  | SLOPE PAVING (1 1/2 H:1 V) |
|  | WINGWALL |
|  | AR FENCE WITH SOLID PLATE |

NOTES:

1. ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-C.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-C.
3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	S. J. S.
DRAWN BY	W. JOHNSEN
CHECKED BY	O. EDEWOR
IN CHARGE	C. LEMLEY
DATE	02/13/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

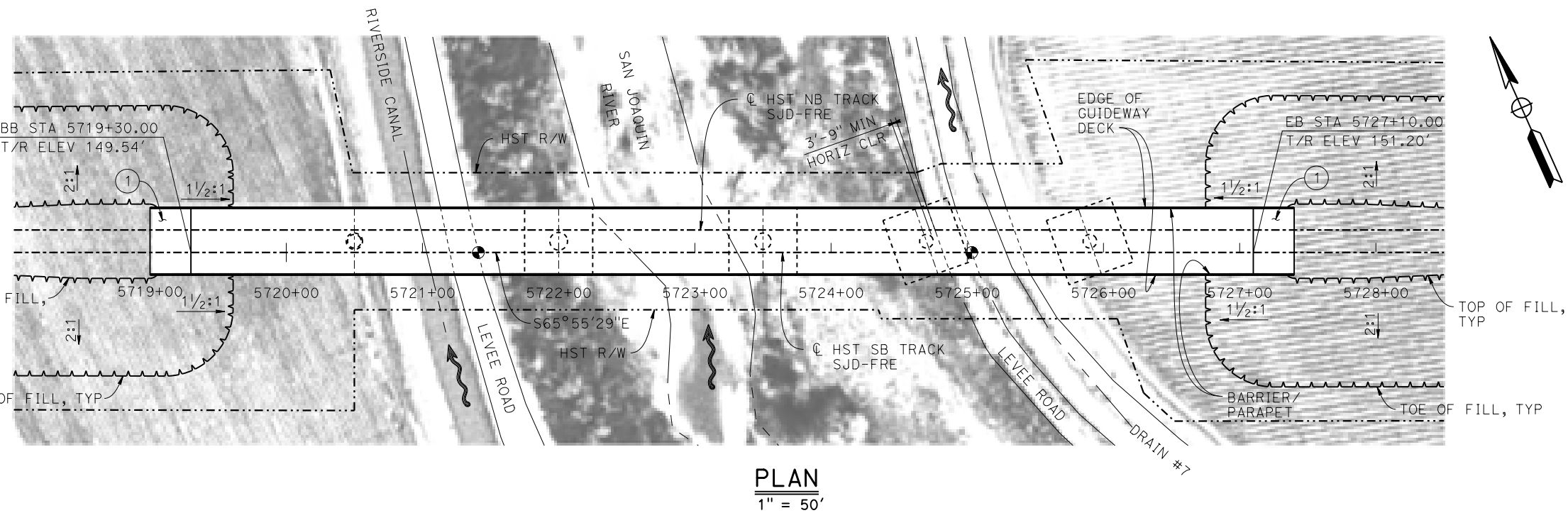
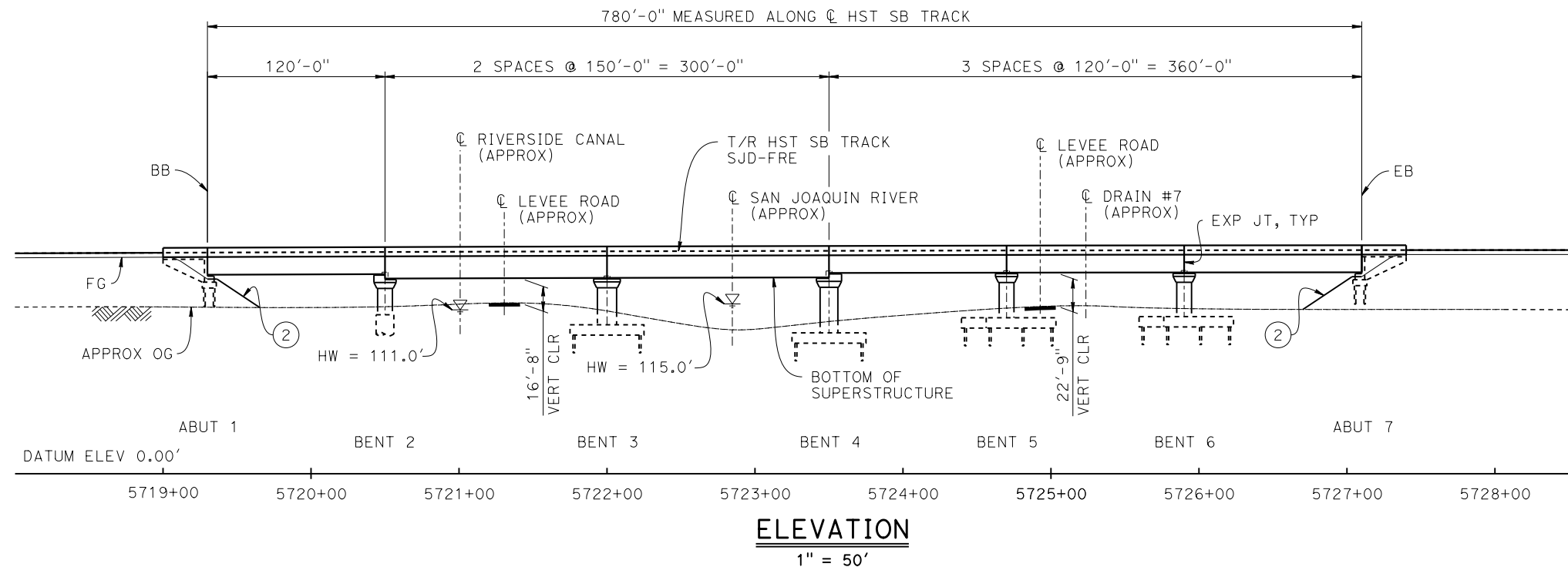
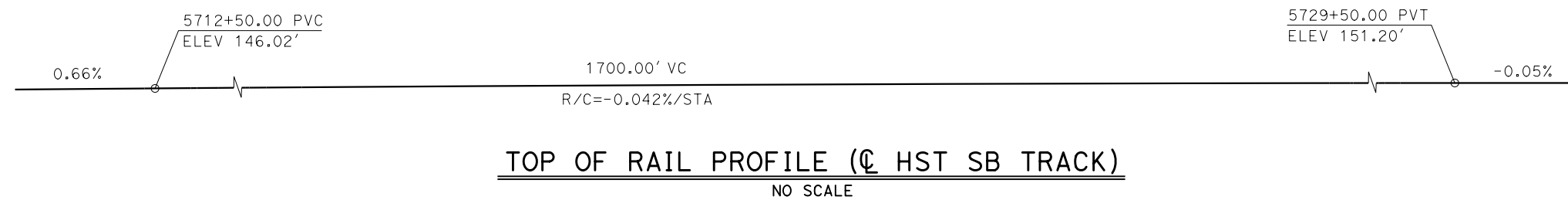


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
INDIANA ROAD OVERHEAD

CONTRACT NO.	HSR08-05
DRAWING NO.	ST-K1050-C
SCALE	AS SHOWN
SHEET NO.	

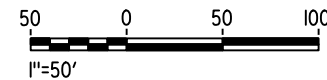


- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - INDICATES DIRECTION OF FLOW
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1½H:1V)

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
LEVEE ROAD	5721+27	20'X16.5'	-
LEVEE ROAD	5724+90	20'X16.5'	-
3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

- NOTES:**
- 16"Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS UNLESS OTHERWISE NOTED. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3070-C.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1070-C.



MF-ST-K1070-C.dgn
04-FEB-2015 01:28
p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY J. KIDWELL
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

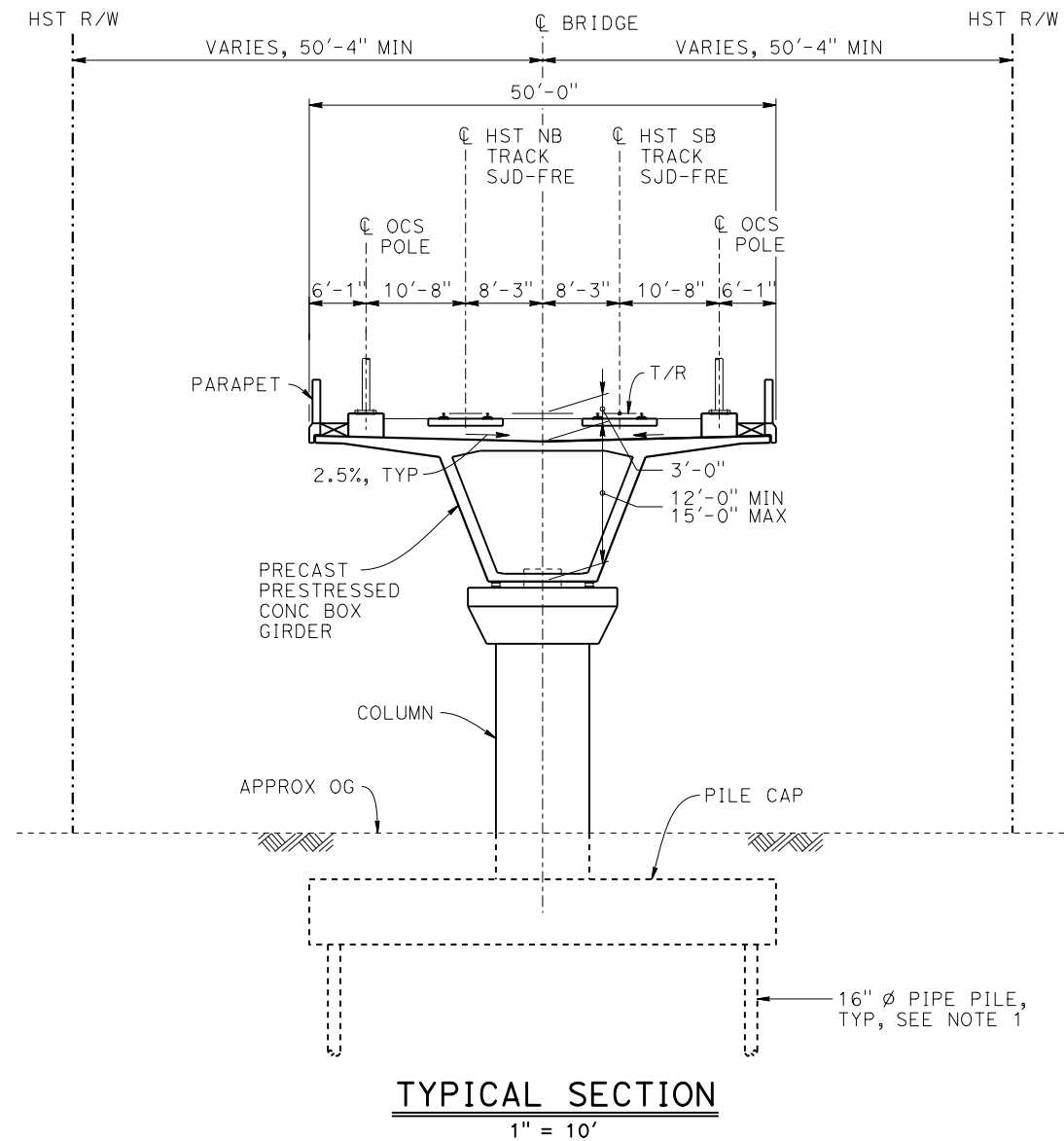


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
SAN JOAQUIN RIVER BRIDGE - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1070-C
SCALE AS SHOWN
SHEET NO.

p005133g 05-FEB-2015 11:45 MF-ST-K3070-C.dgn



BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2	10'-0"Ø	12'-0"Ø
3	13'-0"Ø	
4	12'-0"Ø	
5 - 6	10'-0"Ø	

- NOTES:**
- PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY J. KIDWELL
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

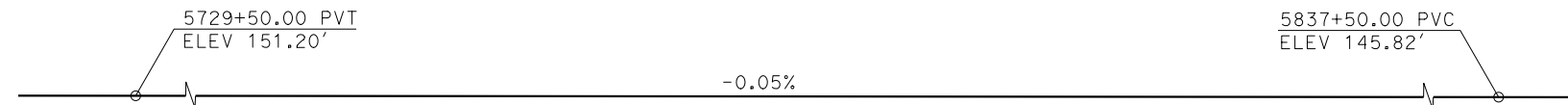
**NOT FOR
CONSTRUCTION**



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

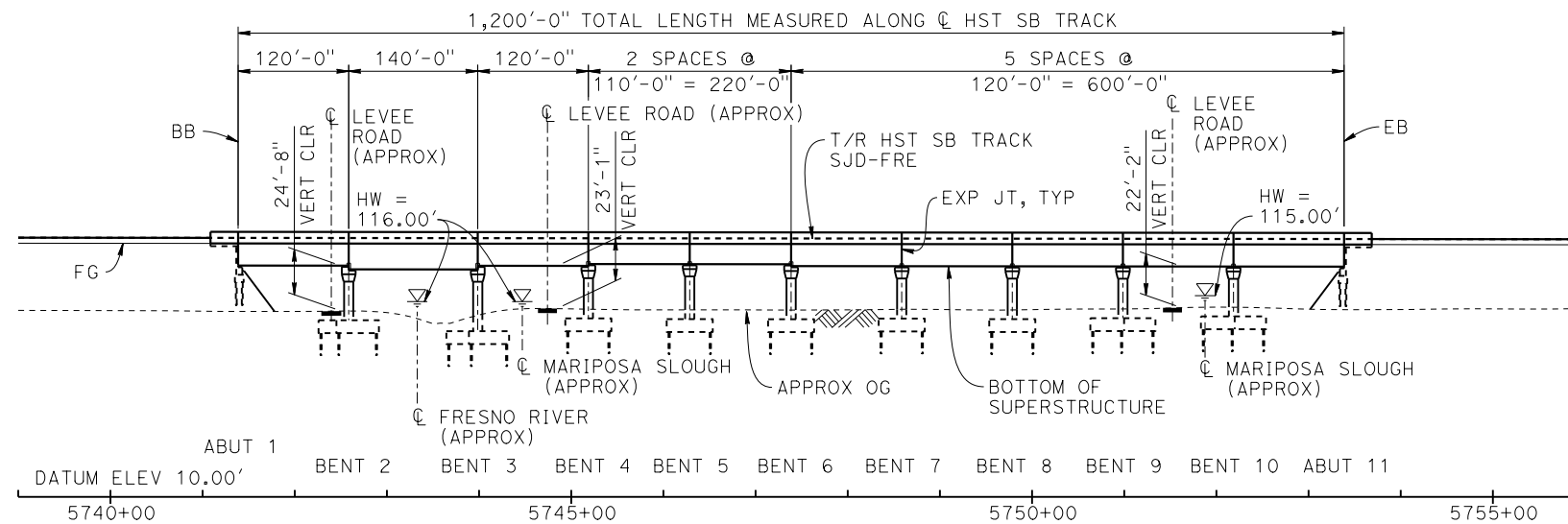
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
SAN JOAQUIN RIVER BRIDGE - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3070-C
SCALE AS SHOWN
SHEET NO.



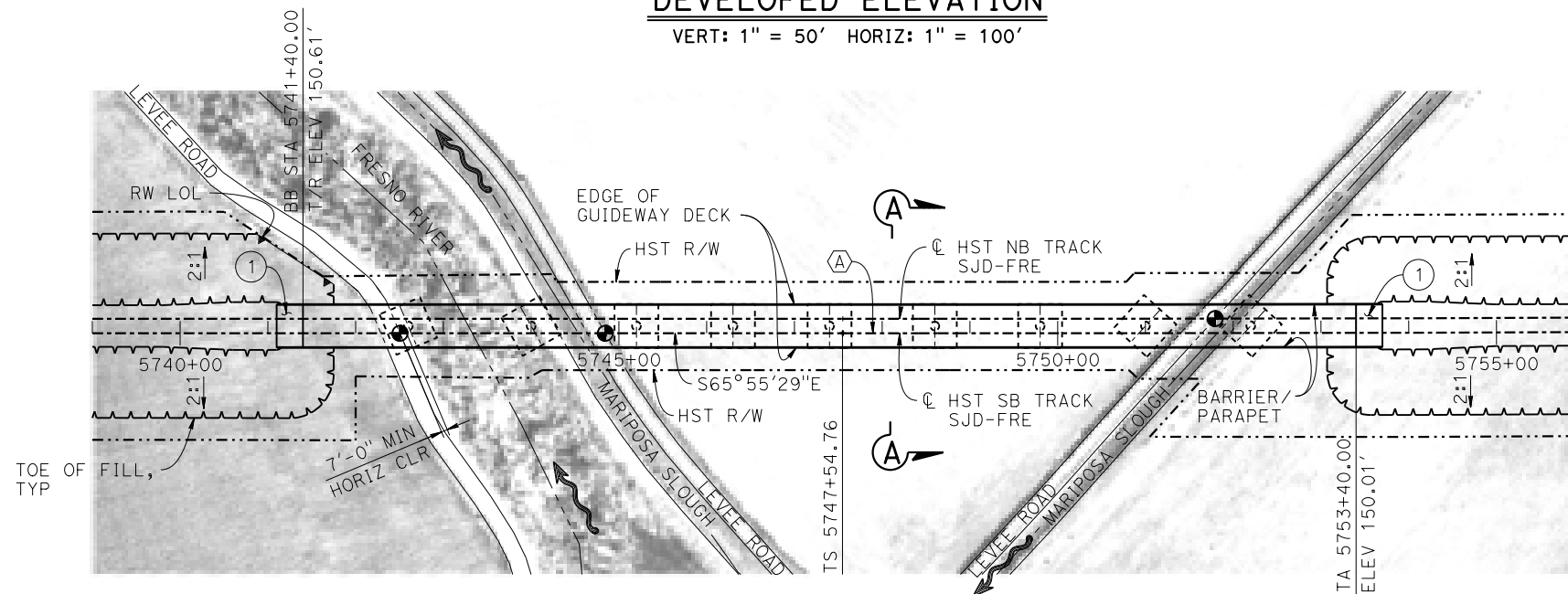
TOP OF RAIL PROFILE (CL HST SB TRACK)

NO SCALE



DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'



PLAN

1" = 100'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
LEVEE ROAD	5742+40	20'X16.5'	-
LEVEE ROAD	5744+72	20'X16.5'	-
LEVEE ROAD	5751+52	20'X16.5'	-
3. <u>X</u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

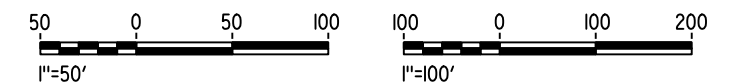
1. 16"Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTION, SEE DRAWING ST-K3080-C.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1080-C.
5. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1080-C.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

CURVE SJD-FRE 2 SB (A)

R = 45,016.50'
LS = 1,650.00'



MF-ST-K1080-C.dgn

04-FEB-2015 01:29

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY J. KIDWELL
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

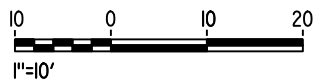
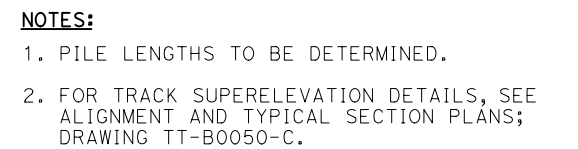
NOT FOR
CONSTRUCTION

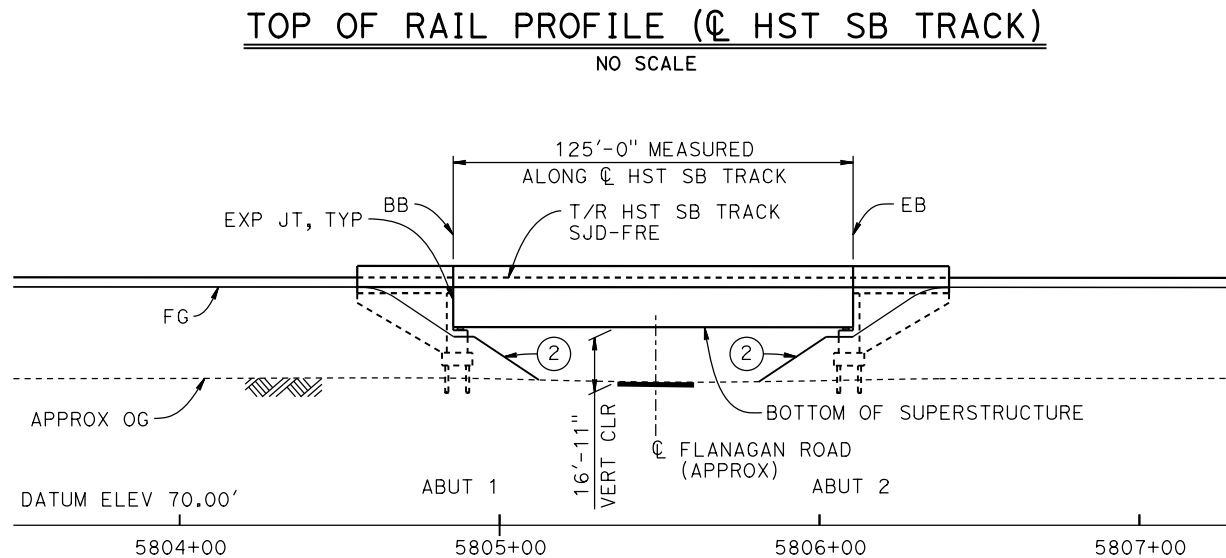
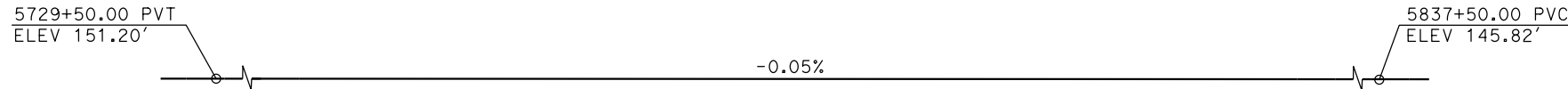


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

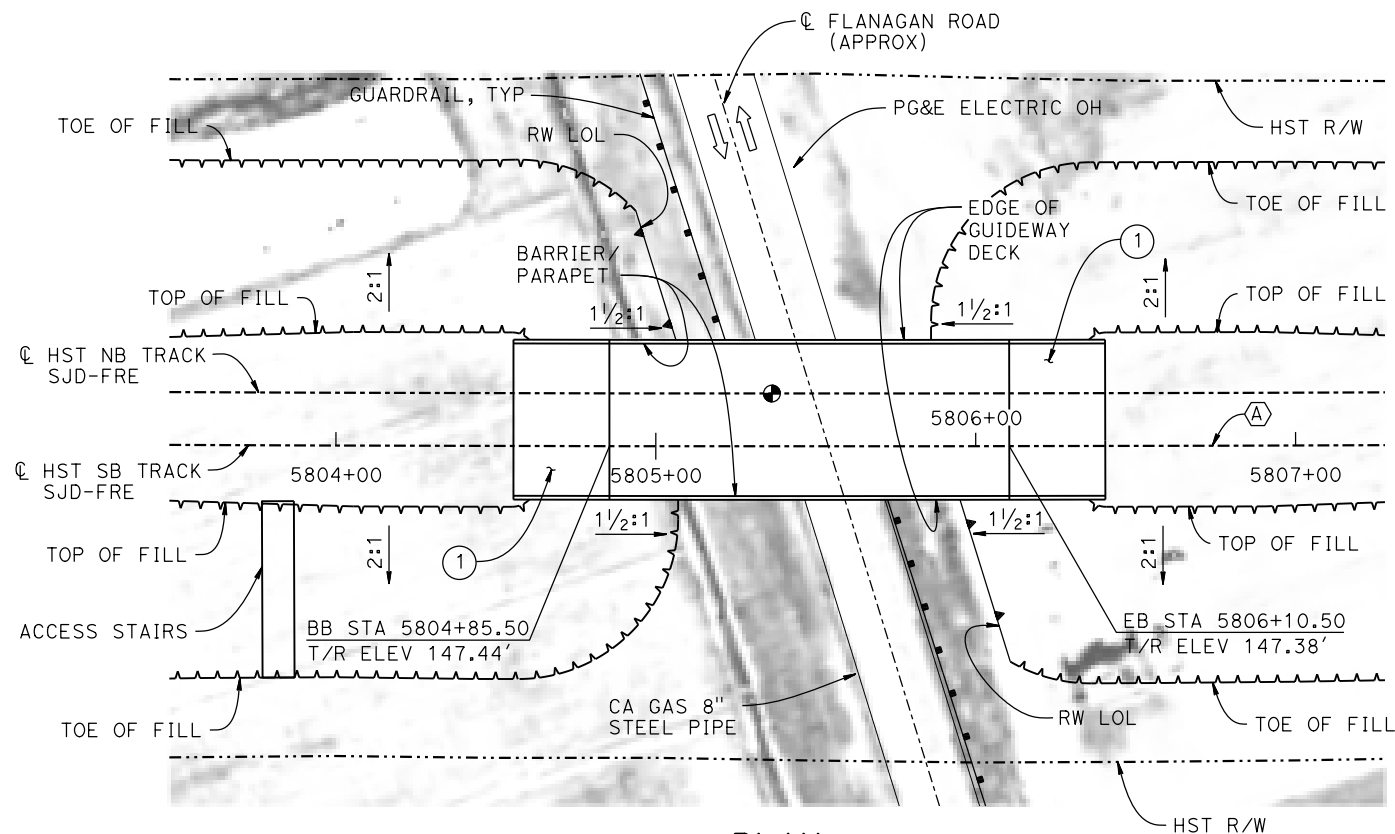
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #1 - FRESNO RIVER AND MARIPOSA SLOUGH - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1080-C
SCALE AS SHOWN
SHEET NO.

[illegible]



DEVELOPED ELEVATION
1" = 30'

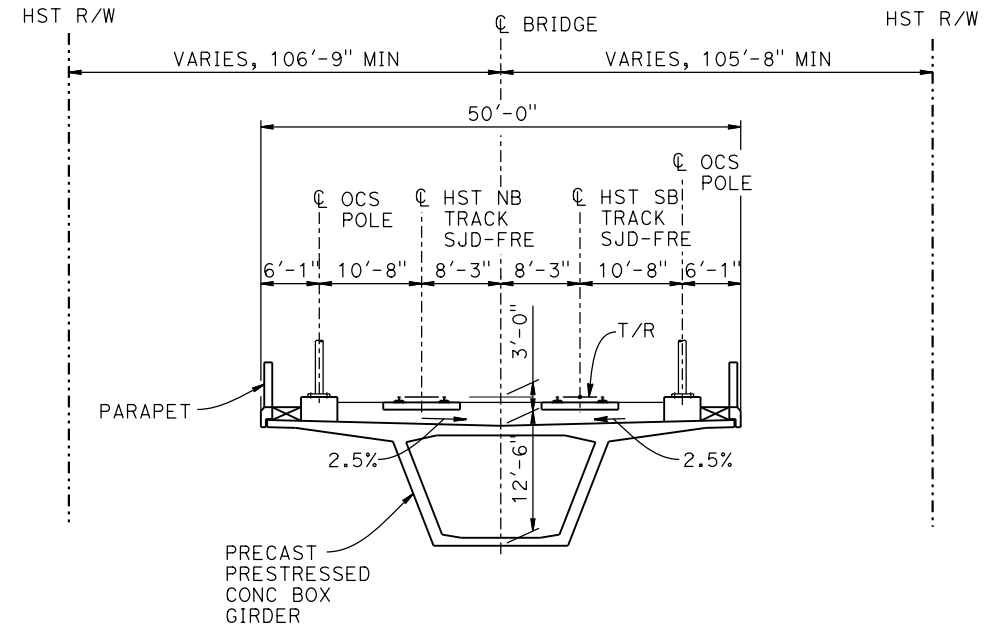


PLAN
1" = 30'

CURVE SJD-FRE 2 SB (A)
R = 45,016.50'
LS = 1,650.00'

LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇒ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)



TYPICAL SECTION
1"=10'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
FLANAGAN ROAD	5805+51	32'X16.5'	2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

- 16"Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1090-C.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1090-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1090-C.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-C.



MF-ST-K1090-C.dgn

17-MAR-2016 01:29

p005133A

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY W. JOHNSEN
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

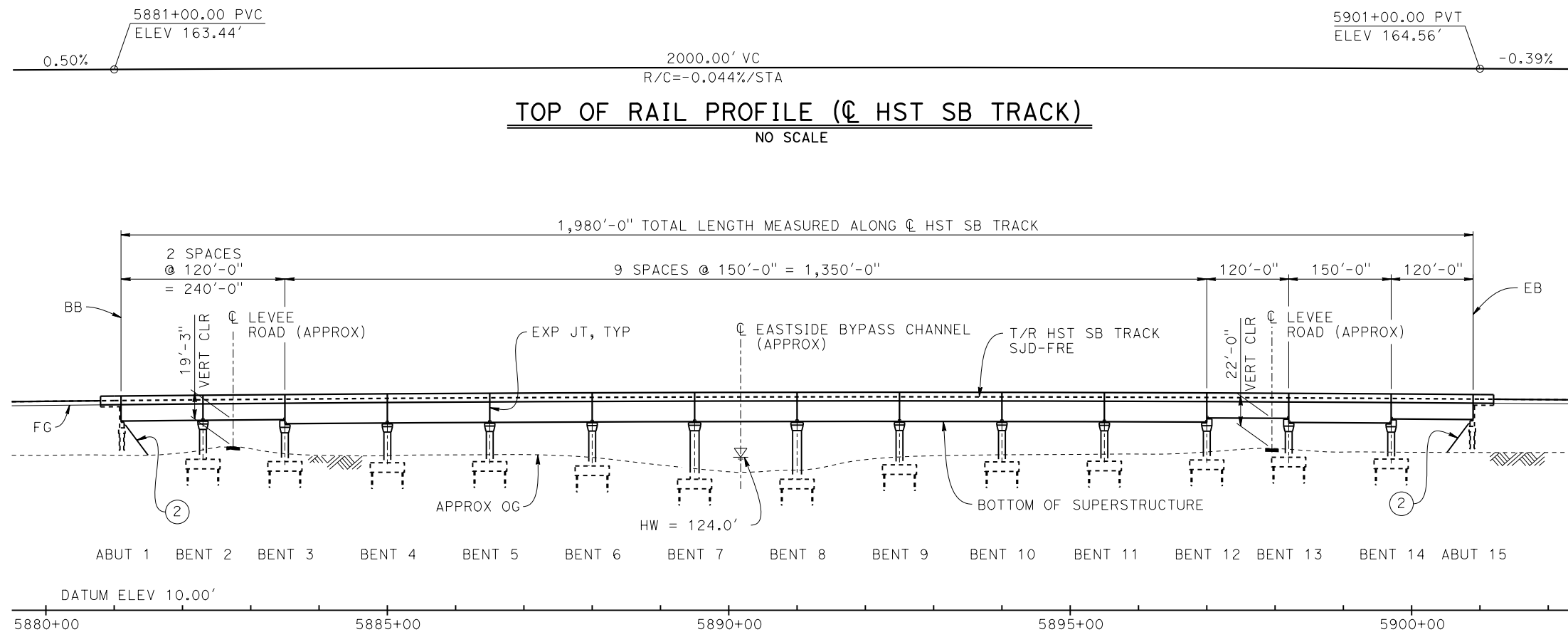
**NOT FOR
CONSTRUCTION**



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

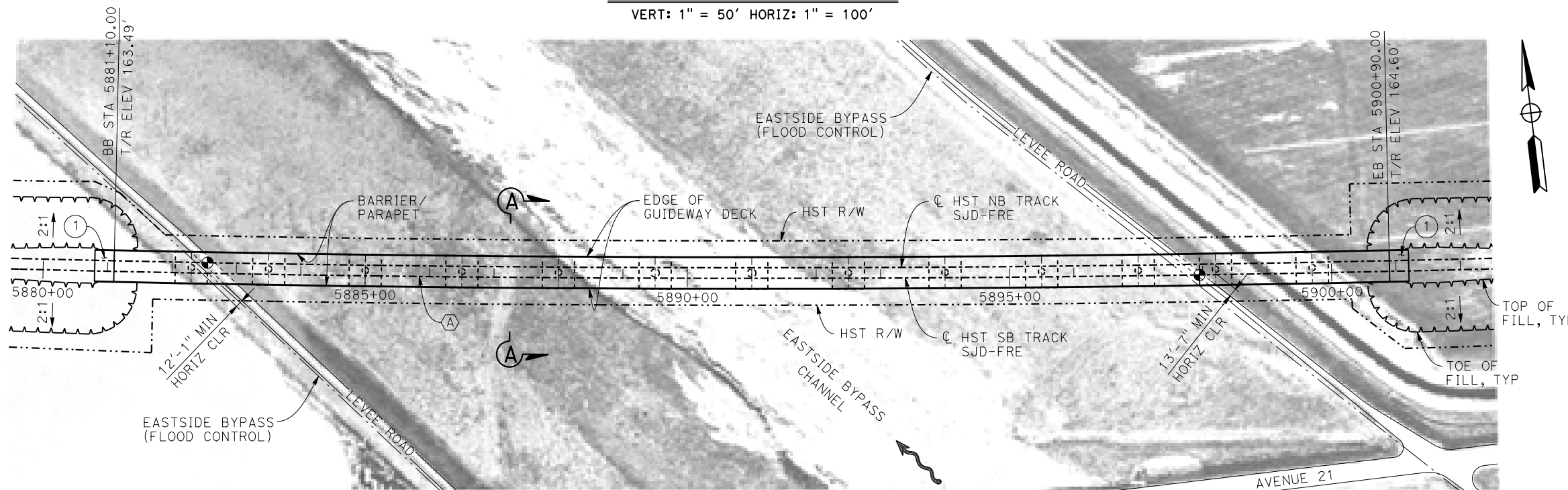
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
FLANAGAN ROAD UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1090-C
SCALE AS SHOWN
SHEET NO.



DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'



PLAN

1" = 100'

LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ~ INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

CURVE SJD-FRE 2 SB (A)

R = 45,016.50'
LS = 1,650.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

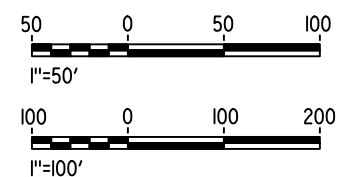
- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
LEVEE ROAD	5882+72	20'X16.5'	-
LEVEE ROAD	5897+94	20'X16.5'	-

3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3100-C.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1100-C AND CV-S1110-C.



MF-ST-K1100-C.dgn

04-FEB-2015 01:32

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY W. JOHNSON
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

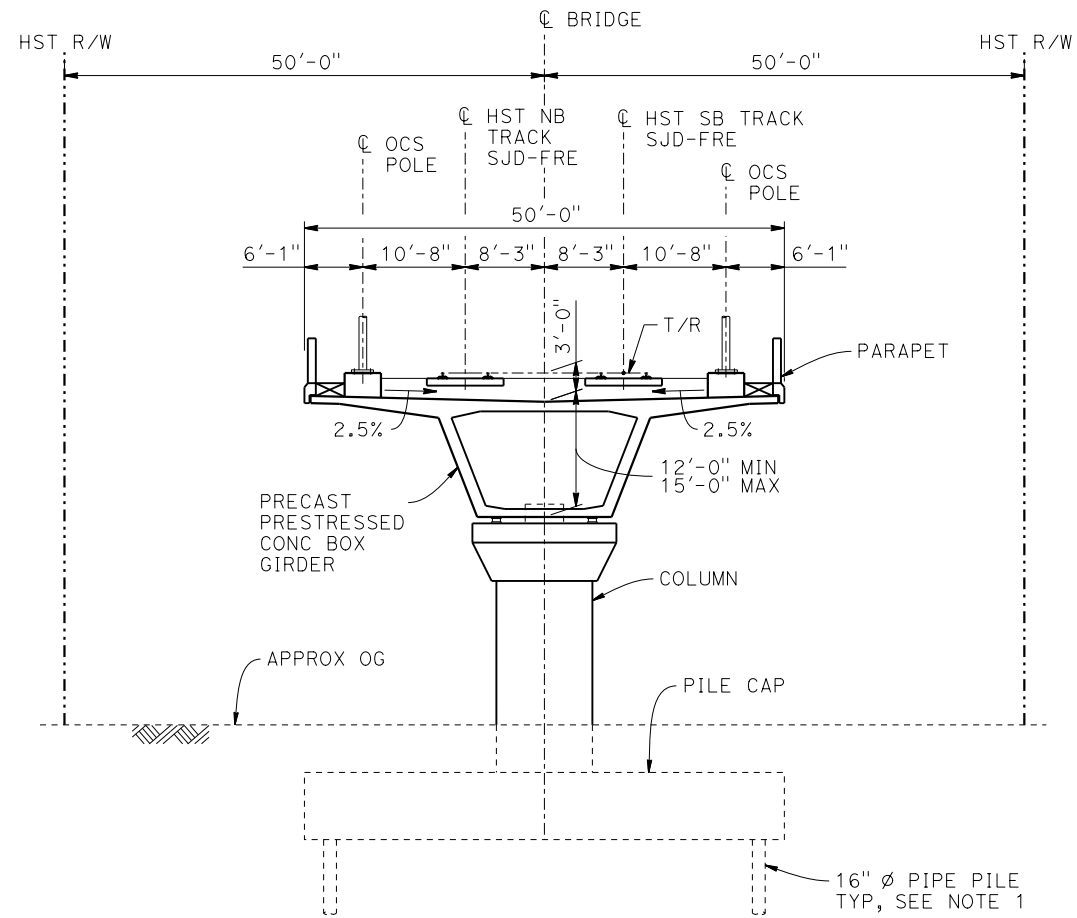


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #2 - EASTSIDE BYPASS IRRIGATION DITCH - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1100-C
SCALE AS SHOWN
SHEET NO.

p005133g 05-FEB-2015 11:45 MF-ST-K3100-C.dgn



SECTION A-A
1" = 10'

BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2 - 6	10'-0"Ø
7 - 8	13'-0"Ø
9 - 14	10'-0"Ø

NOTES:

1. PILE LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY W. JOHNSEN
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

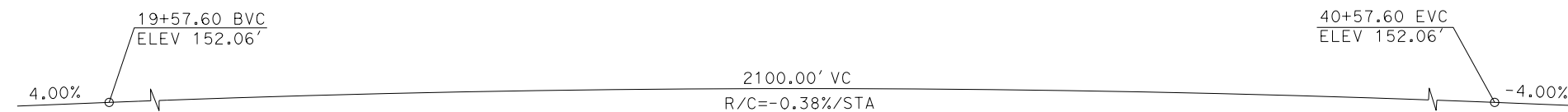
**NOT FOR
CONSTRUCTION**



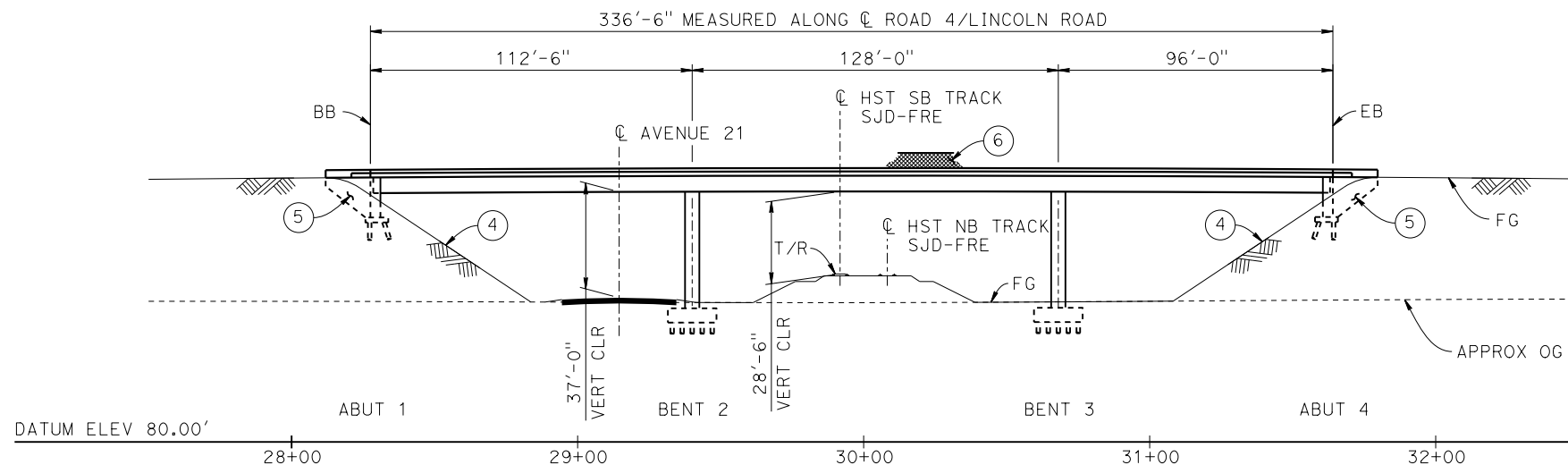
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
AERIAL #2 - EASTSIDE BYPASS IRRIGATION DITCH - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3100-C
SCALE AS SHOWN
SHEET NO.

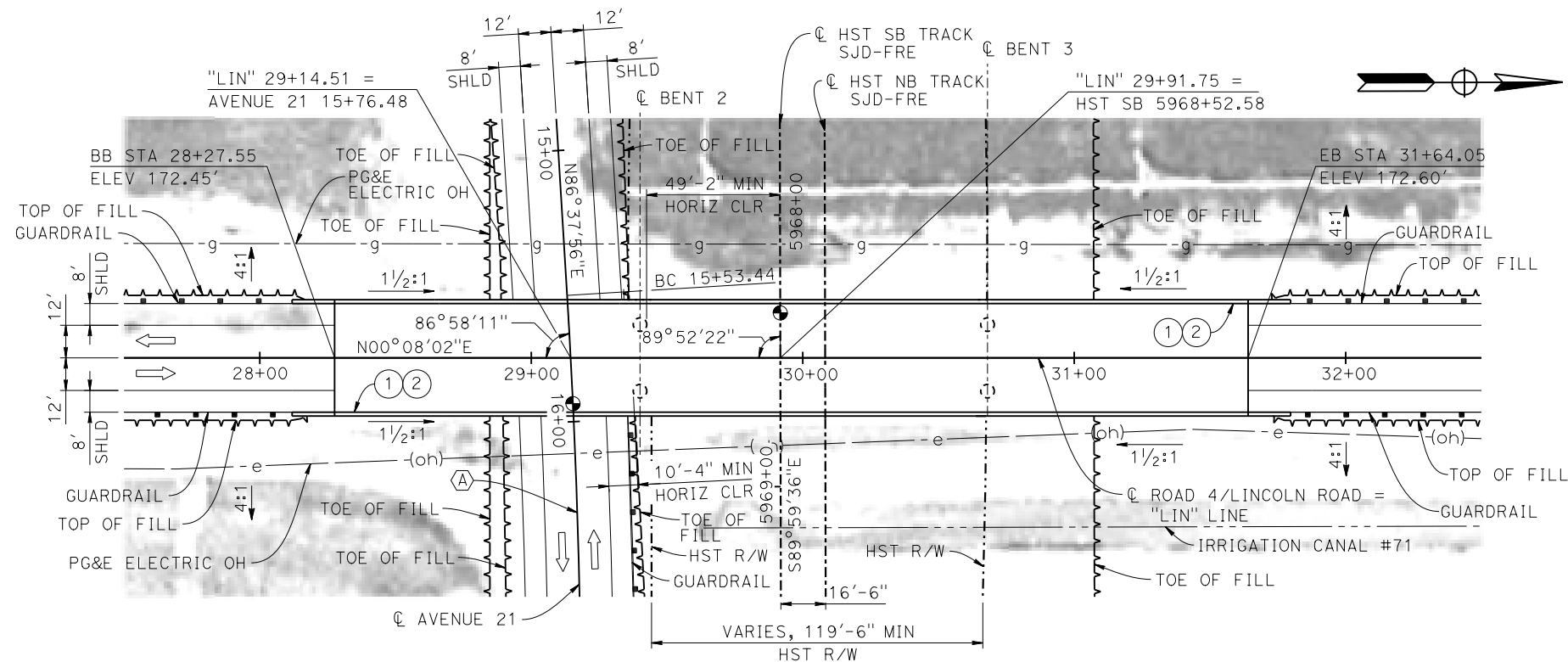
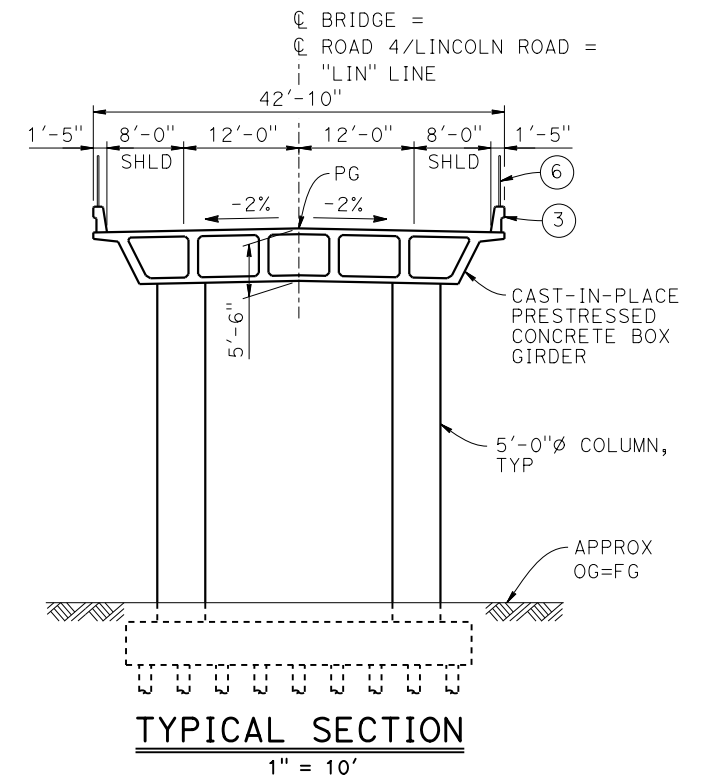


PROFILE GRADE
NO SCALE



ELEVATION
1" = 30'

CURVE NO. 121-02 (A)
R = 2,800.00'
 $\Delta = 03^\circ 32' 53''$
L = 173.39'
T = 86.72'



PLAN
1" = 30'

LEGEND:

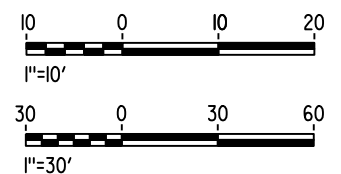
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- PAINT "LINCOLN ROAD OVERHEAD"
- PAINT "BRIDGE NO. XX-XXXX"
- CONCRETE BARRIER TYPE 736 MOD
- SLOPE PAVING (1 1/2H:1V)
- WINGWALL
- AR FENCE WITH SOLID PLATE

NOTES:

- ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1120-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1120-C.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
AVENUE 21	15+76	32'x15'	2-WAY
3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



MF-ST-K1120-C.dgn

05-MAY-2015 6:23

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

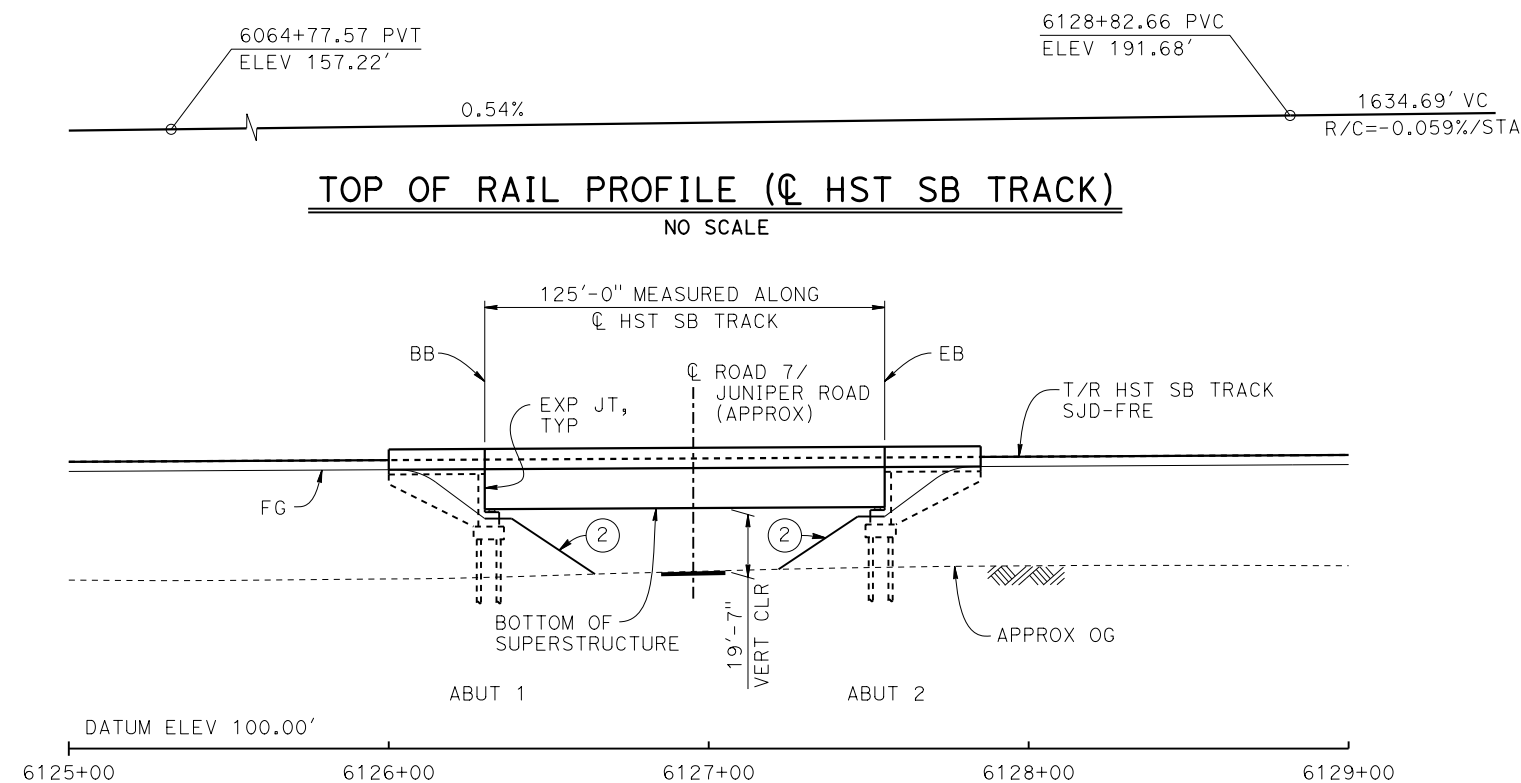
NOT FOR
CONSTRUCTION



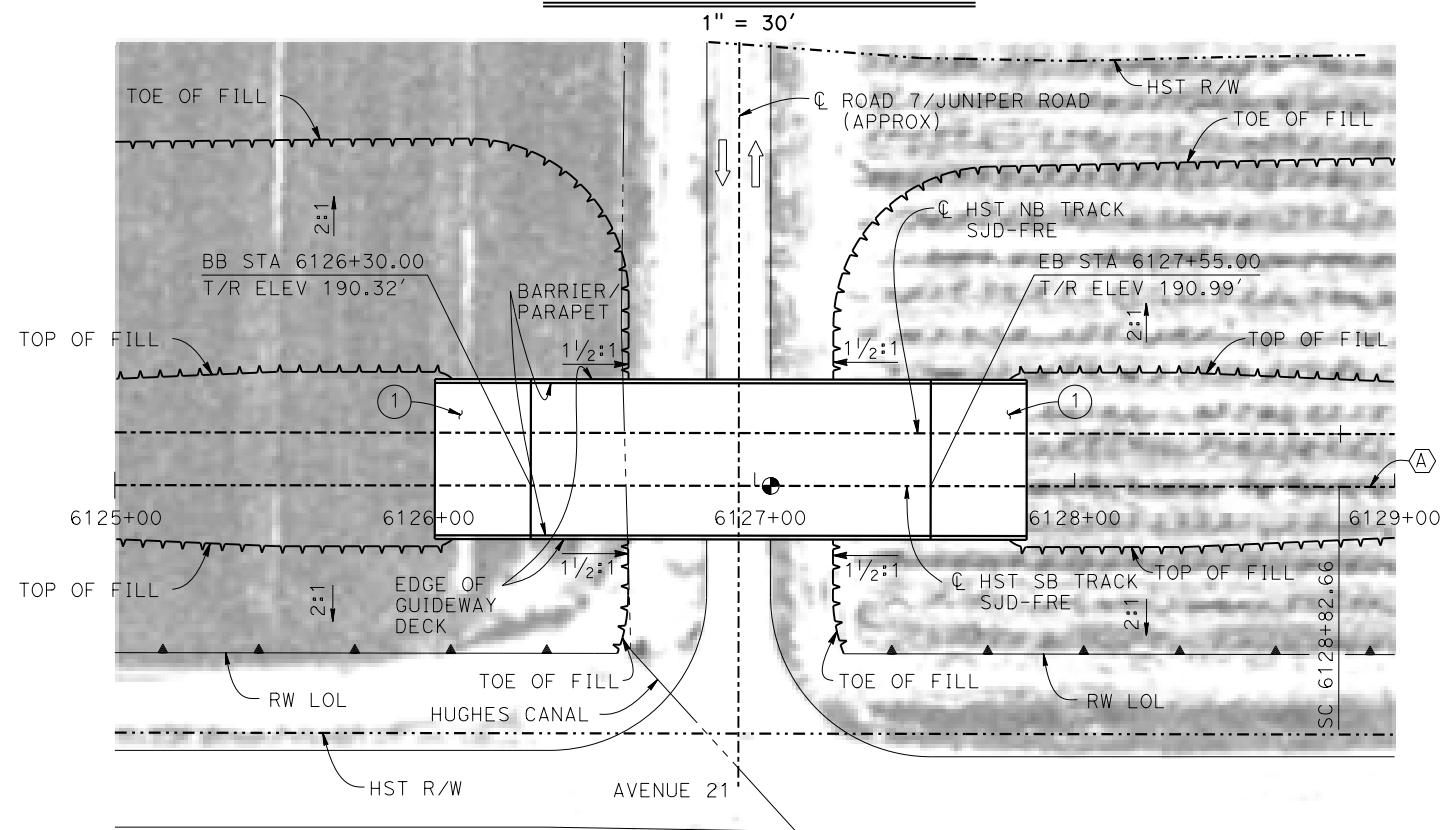
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
LINCOLN ROAD (ROAD 4) OVERHEAD

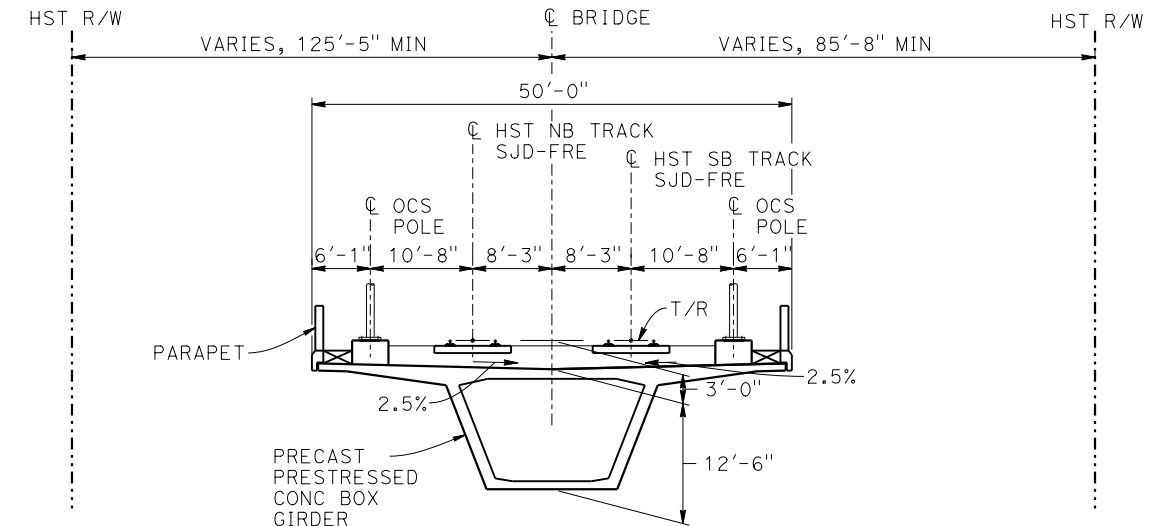
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1120-C
SCALE AS SHOWN
SHEET NO.



DEVELOPED ELEVATION



PLAN
1" = 30'



TYPICAL SECTION
1" = 10'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ROAD 7/JUNIPER ROAD	6126+95	25'X16.5'	2-WAY

3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

LEGEND:

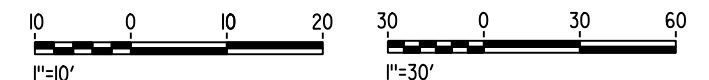
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

CURVE SJD-FRE 3 SB (A)

R = 320,000.00'
LS = 1,150.00'

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1150-C.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1150-C.
5. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-C.



MF-ST-K1150-C.dgn

28-APR-2015 09:13

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

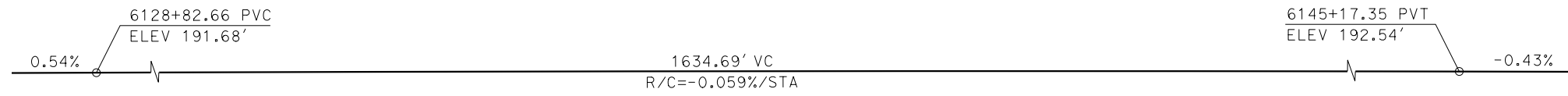
**NOT FOR
CONSTRUCTION**



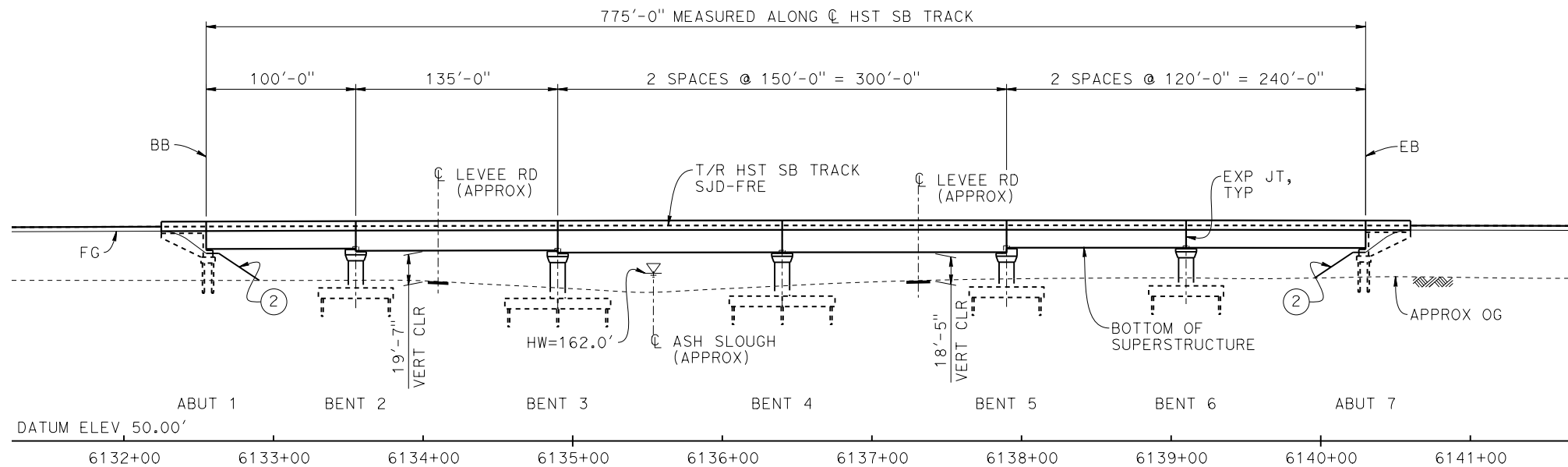
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
JUNIPER ROAD (ROAD 7) UNDERPASS

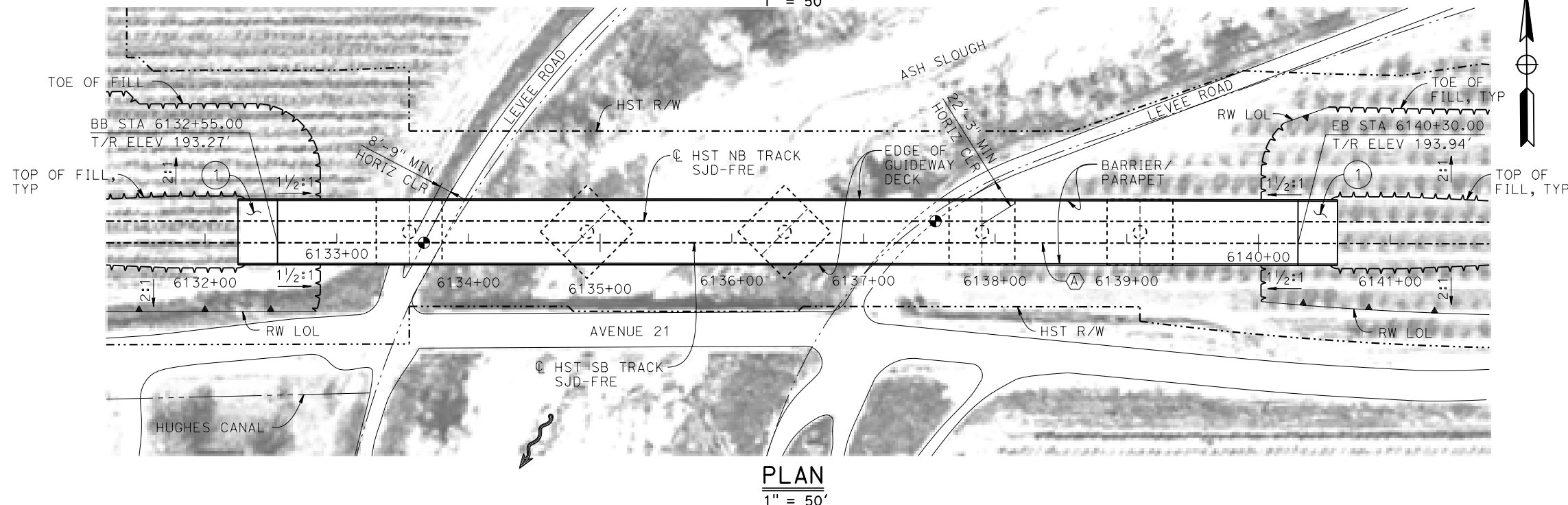
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1150-C
SCALE AS SHOWN
SHEET NO.



TOP OF RAIL PROFILE (CL HST SB TRACK)
NO SCALE



DEVELOPED ELEVATION
1" = 50'



- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ~> INDICATES DIRECTION OF FLOW
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1 1/2H:1V)

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

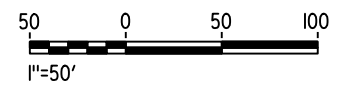
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
LEVEE ROAD	6133+73	20'X16.5'	-
LEVEE ROAD	6137+31	20'X16.5'	-
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR SECTION, SEE DRAWING ST-K3155-C.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1150-C.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1150-C.

CURVE SJD-FRE 3 SB (A)

R = 320,000.00'
LS = 1,150.00'



MF-ST-K1155-C.dgn

04-FEB-2015 01:35

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY J. KIDWELL
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

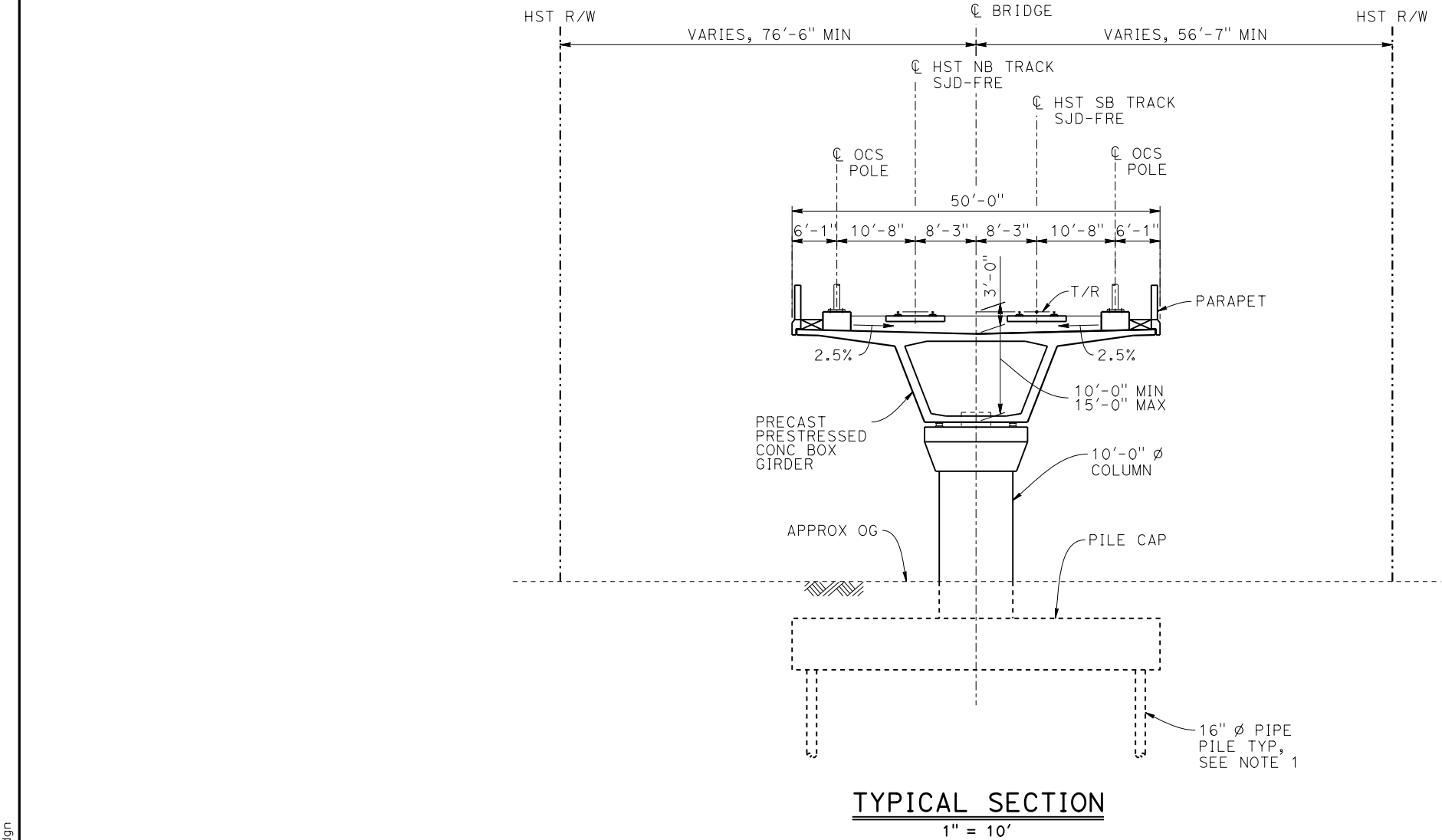


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ASH SLOUGH BRIDGE - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1155-C
SCALE AS SHOWN
SHEET NO.

p005133g 05-FEB-2015 11:46 MF-ST-K3155-C.dgn



- NOTES:**
1. PILE LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

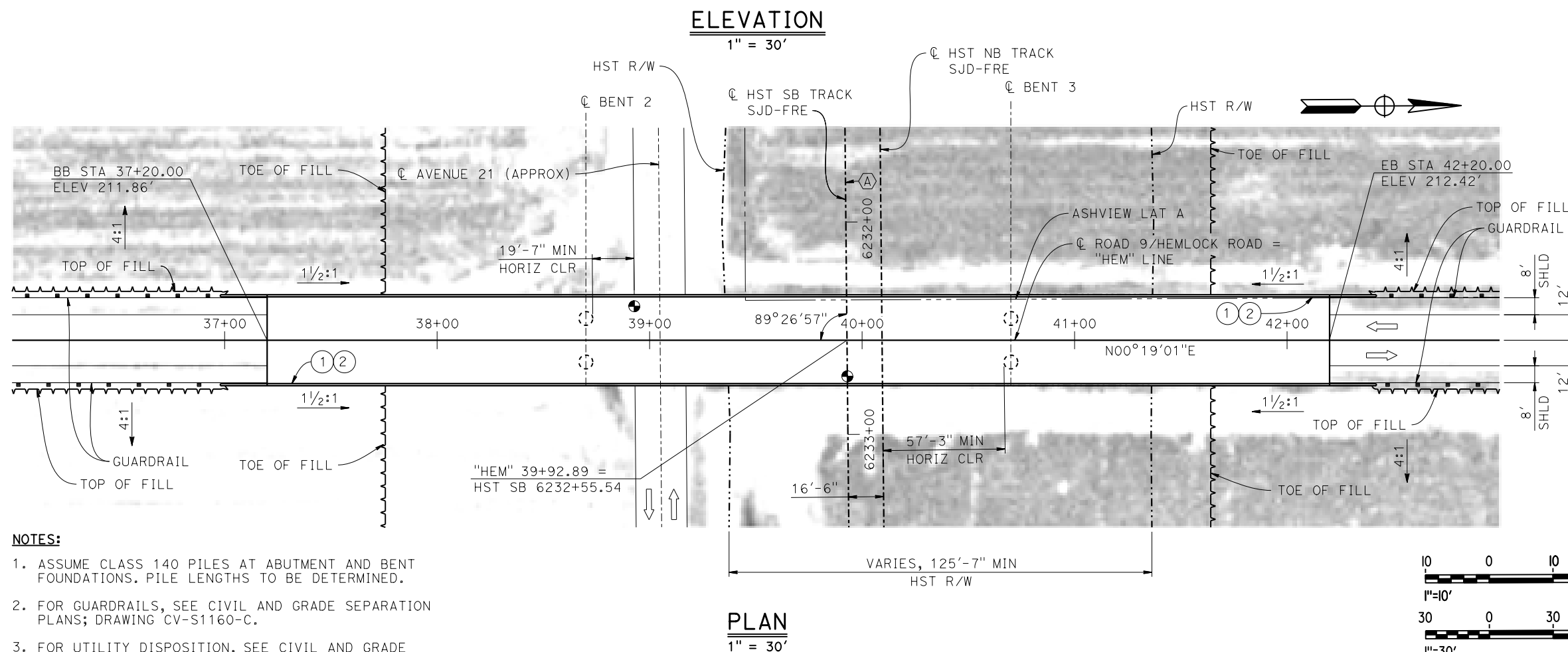
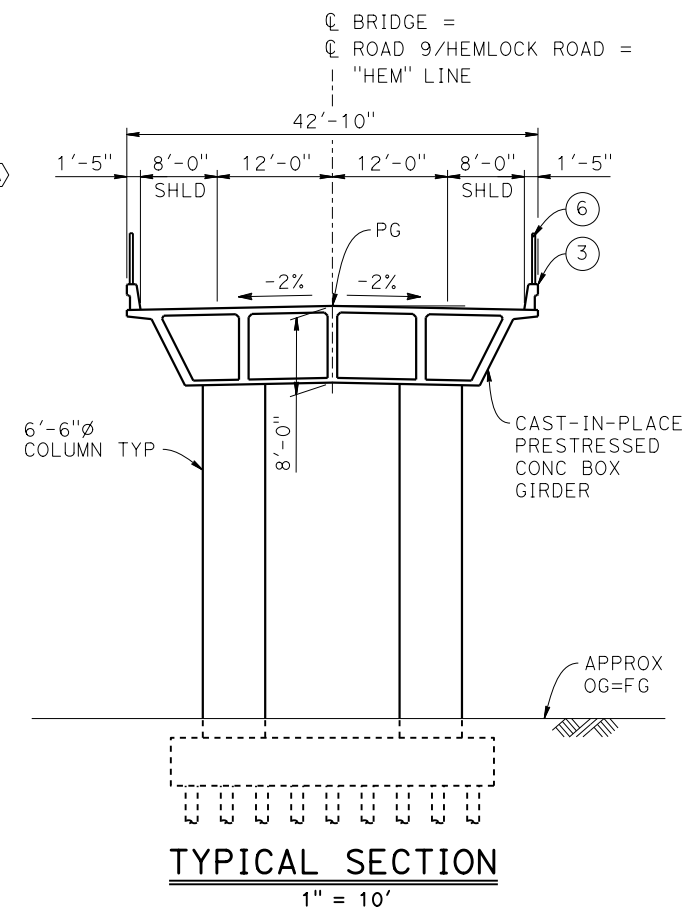
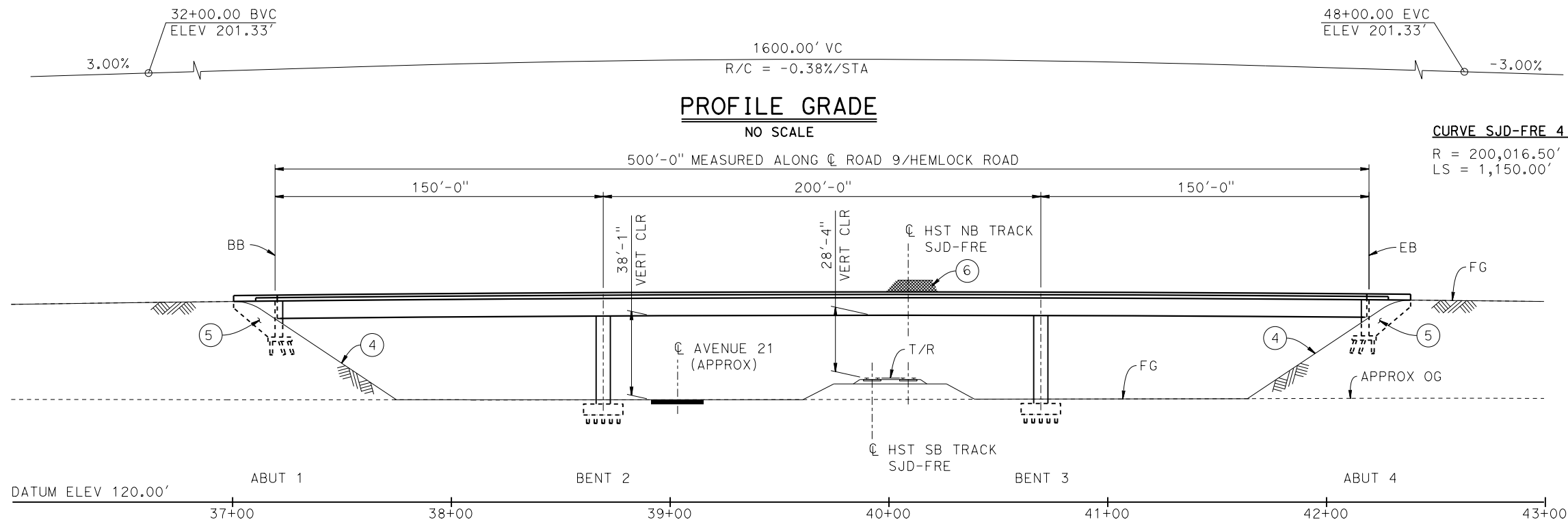
DESIGNED BY M. SUN
DRAWN BY J. KIDWELL
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
ASH SLOUGH BRIDGE - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3155-C
SCALE AS SHOWN
SHEET NO.



- NOTES:**
1. ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
 2. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-C.
 3. FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS. DRAWING CV-S1160-C.

- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ⇒ INDICATES DIRECTION OF TRAFFIC
 - ① PAINT "HEMLOCK ROAD OVERHEAD"
 - ② PAINT "BRIDGE NO. XX-XXXX"
 - ③ CONCRETE BARRIER TYPE 736 MOD
 - ④ SLOPE PAVING (1 1/2H:1V)
 - ⑤ WINGWALL
 - ⑥ AR FENCE WITH SOLID PLATE

TEMPORARY TRAFFIC OPENINGS			
VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <input checked="" type="checkbox"/> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING RECD (HORIZ X VERT)	
AVENUE 21	39+05	32'X16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

MF-ST-K1160-C.dgn
28-APR-2015 9:14
p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY J. KIDWELL
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

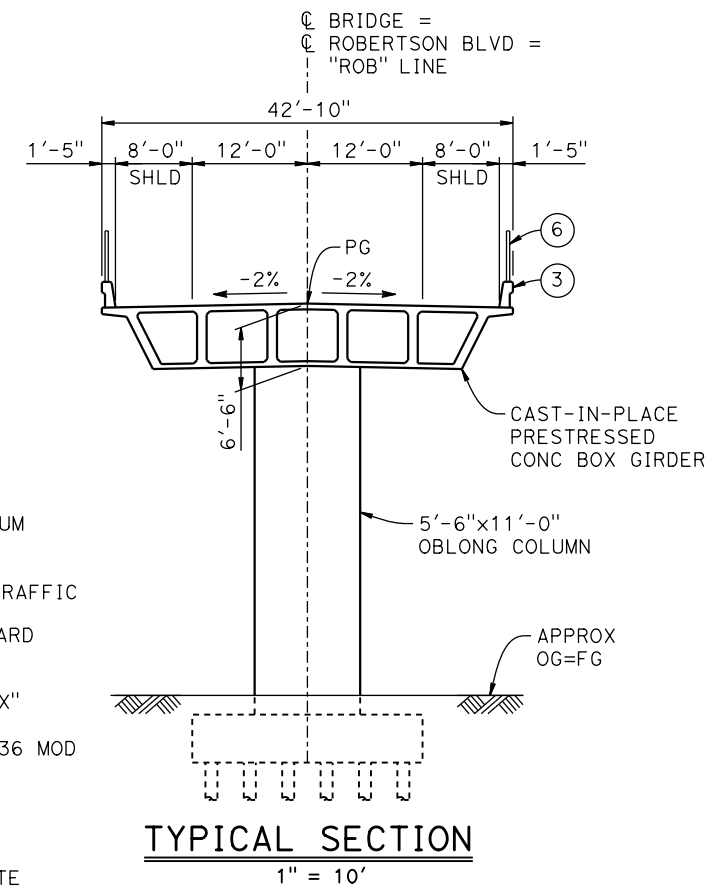
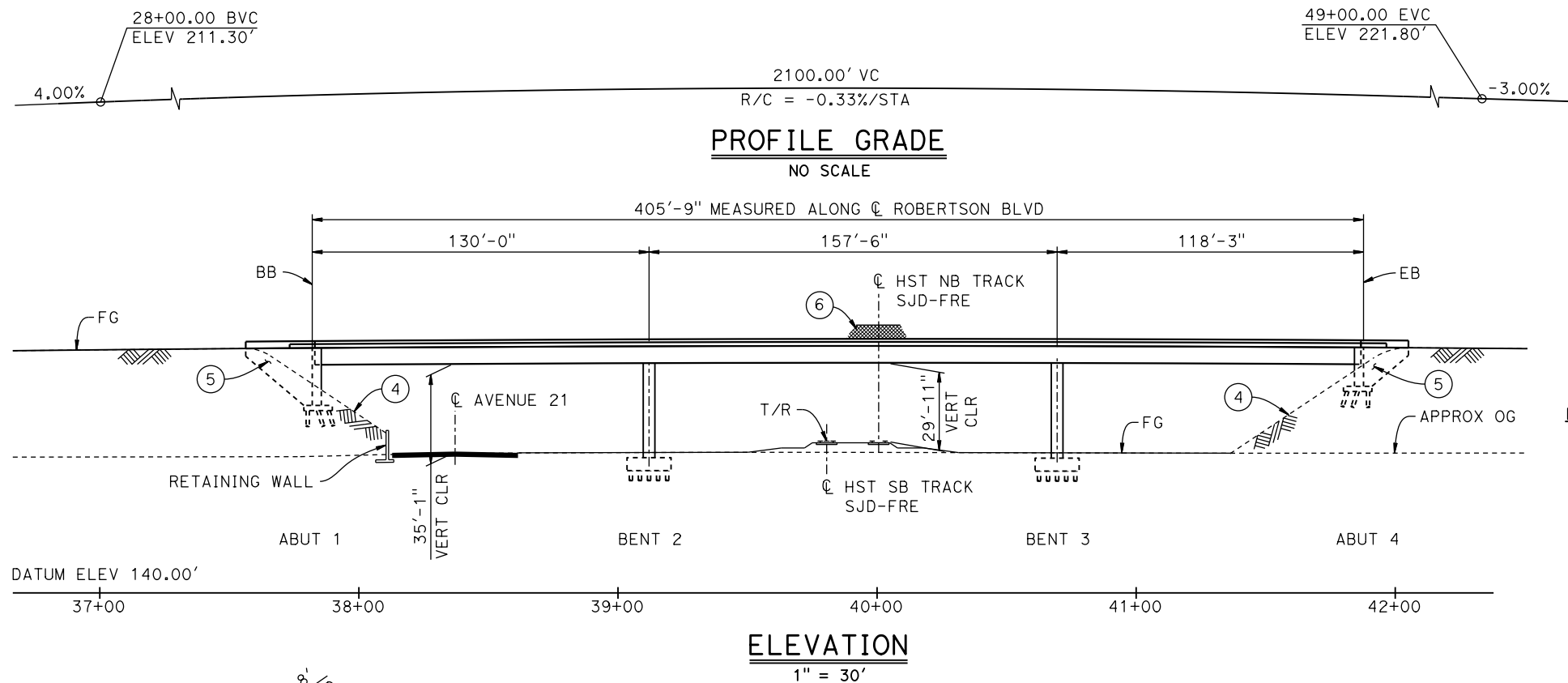
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
HEMLOCK ROAD (ROAD 9) OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1160-C
SCALE AS SHOWN
SHEET NO.

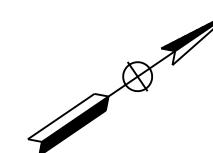


LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "ROBERTSON BOULEVARD OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1½H:1V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

- ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1200-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1200-C.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1200-C.

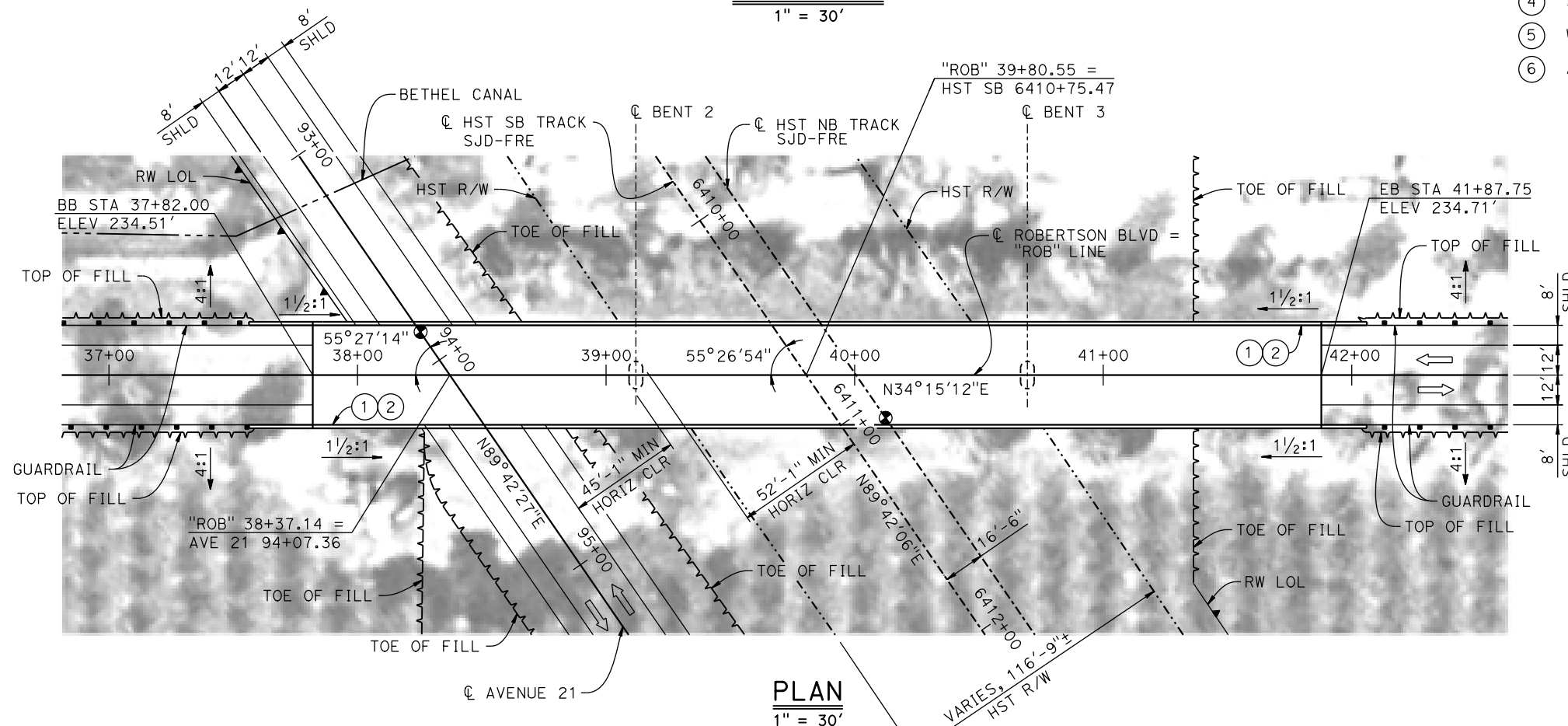
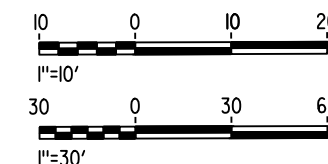


TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ x VERT)	
AVENUE 21	38+37	32'x16.5'	2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



MF-ST-K1200-C.dgn

16-MAR-2016 09:17

p0042226

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY J. KIDWELL
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

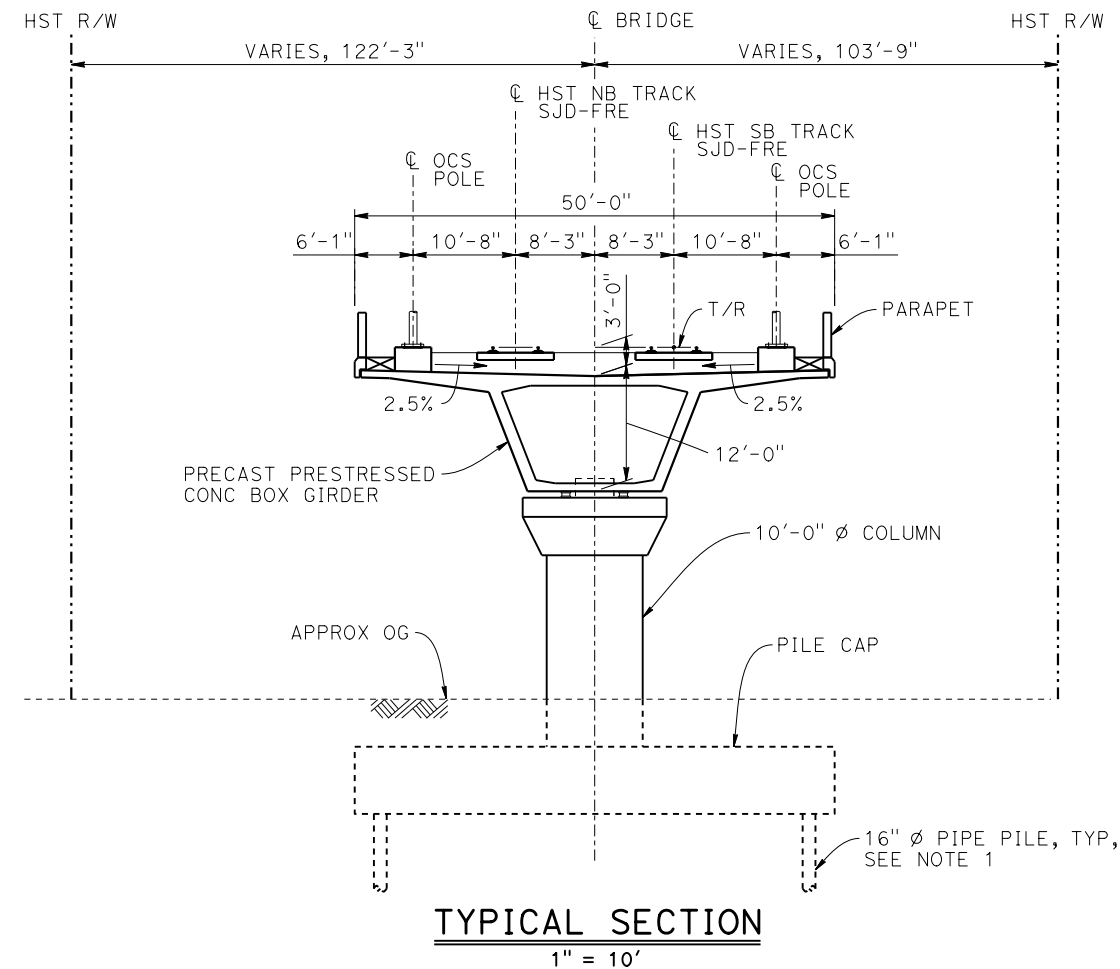
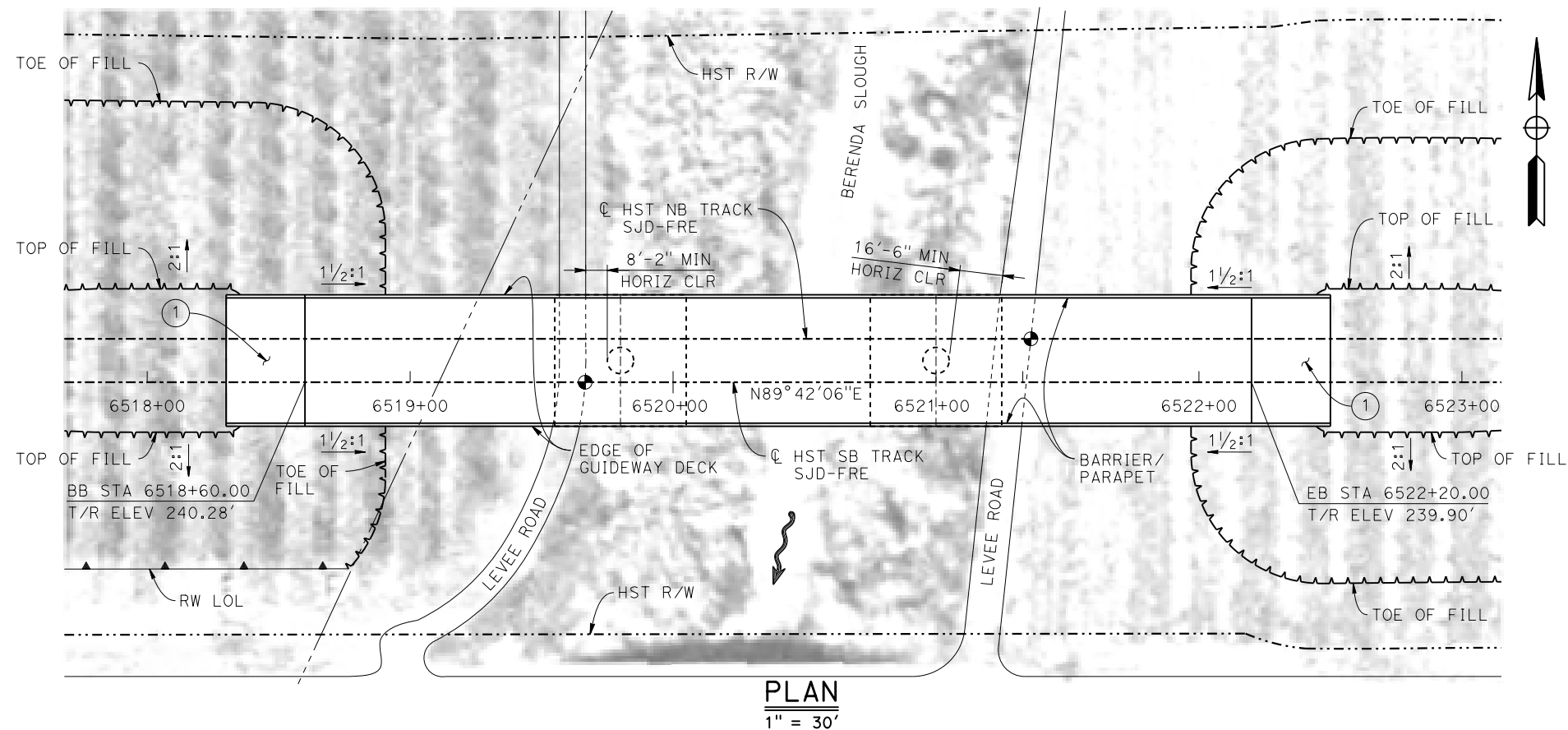
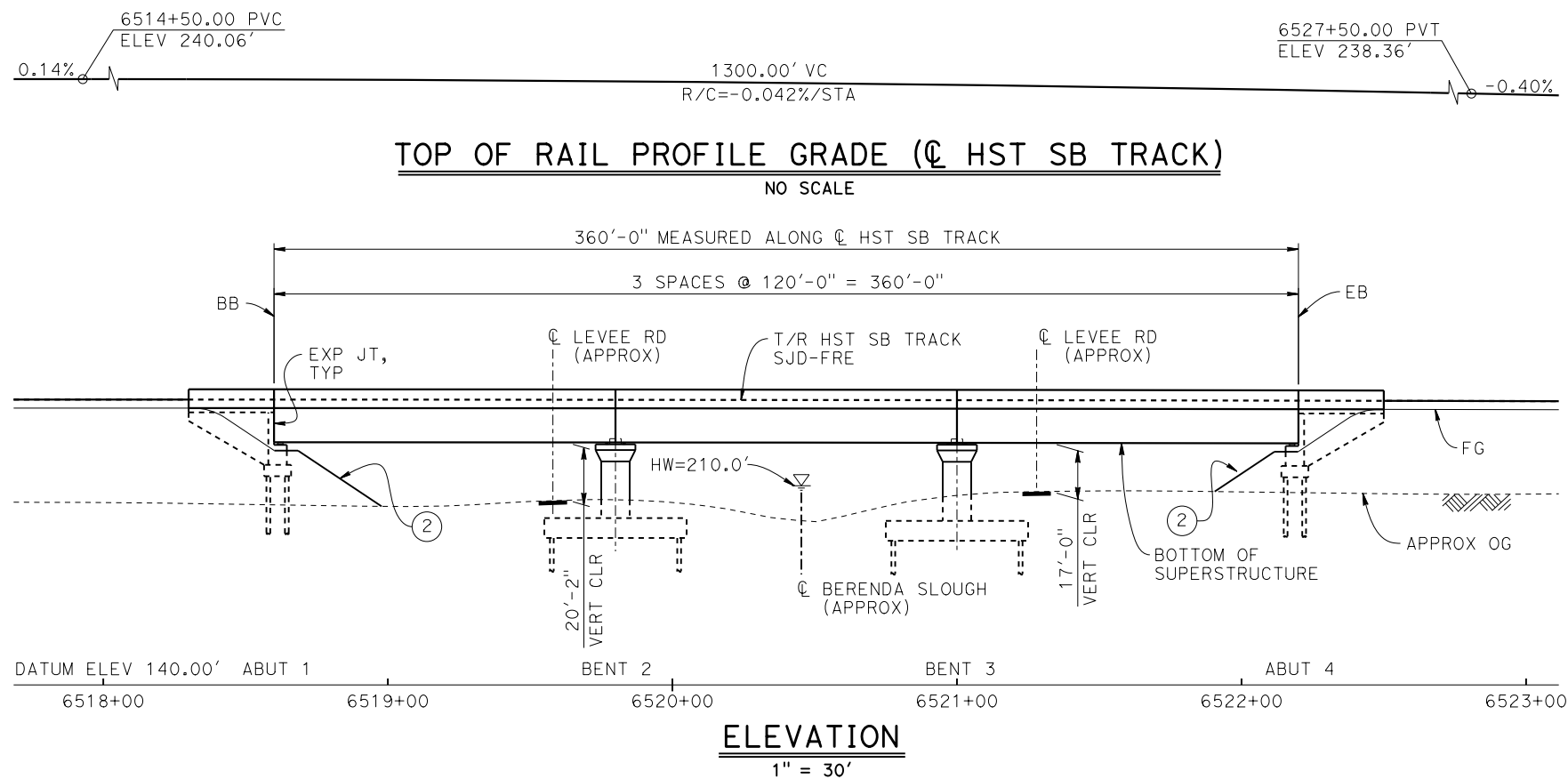


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROBERTSON BOULEVARD OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1200-C
SCALE AS SHOWN
SHEET NO.



TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

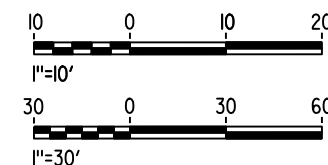
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
LEVEE ROAD	6519+63	20'X16.5'	-
LEVEE ROAD	6521+33	20'X16.5'	-
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1220-C
- FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1220-C.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- STRUCTURE APPROACH
- SLOPE PAVING (1 1/2H:1V)



MF-ST-K1220-C.dgn

04-FEB-2015 01:39

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

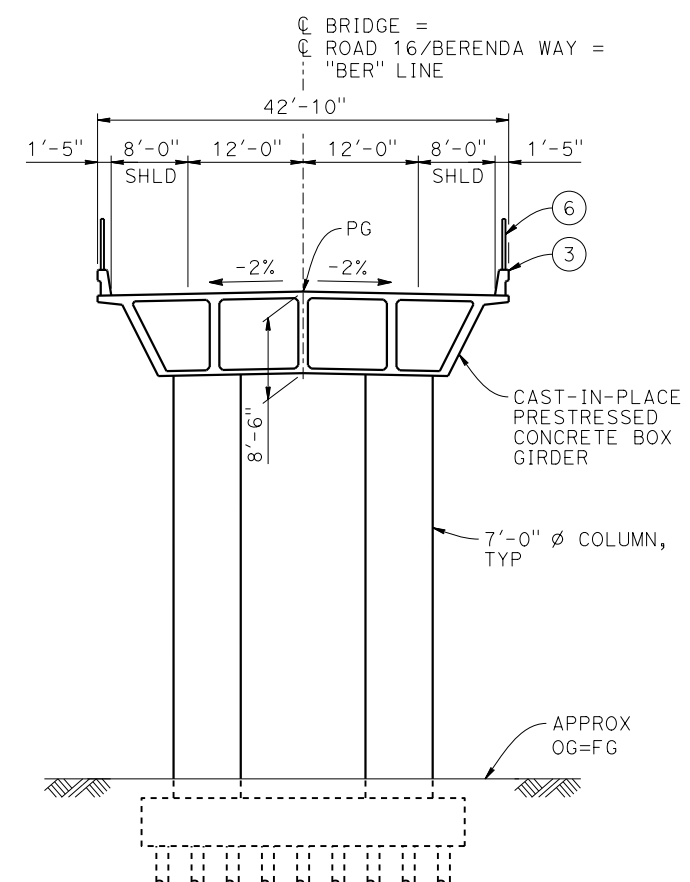
NOT FOR
CONSTRUCTION











CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA SLOUGH BRIDGE

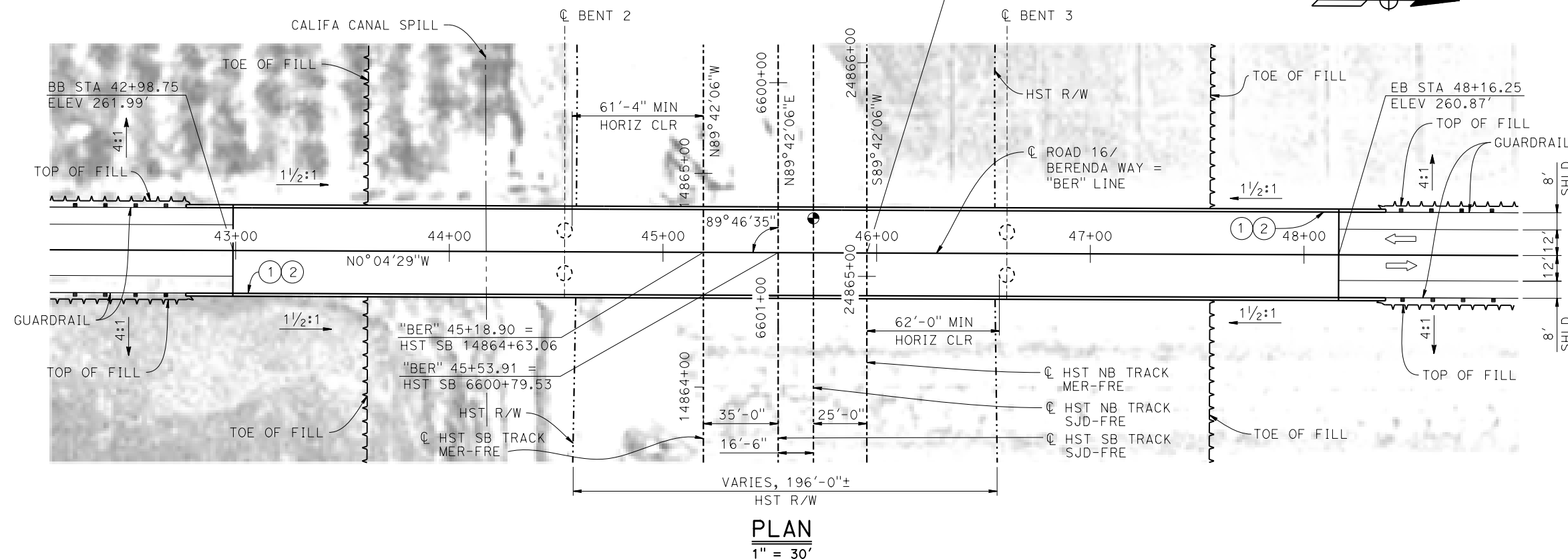
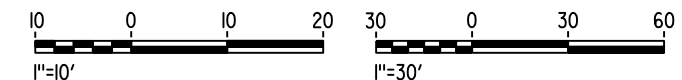
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1220-C
SCALE AS SHOWN
SHEET NO.



$$1'' = 10'$$

-  INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
-  INDICATES DIRECTION OF TRAFFIC
-  1 PAINT "BERENDA WAY OVERHEAD"
-  2 PAINT "BRIDGE NO. XX-XXXX"
-  3 CONCRETE BARRIER TYPE 736 MOD
-  4 SLOPE PAVING (1½H:1V)
-  5 WINGWALL
-  6 AR FENCE WITH SOLID PLATE

1. ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-C.
3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-C.



p005133a 05-MAY-2015 16:24 MF-ST-K1230-C.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	M. SUN
DRAWN BY	J. KIDWELL
CHECKED BY	O. EDEWOR
IN CHARGE	C. LEMLEY
DATE	05/08/2015

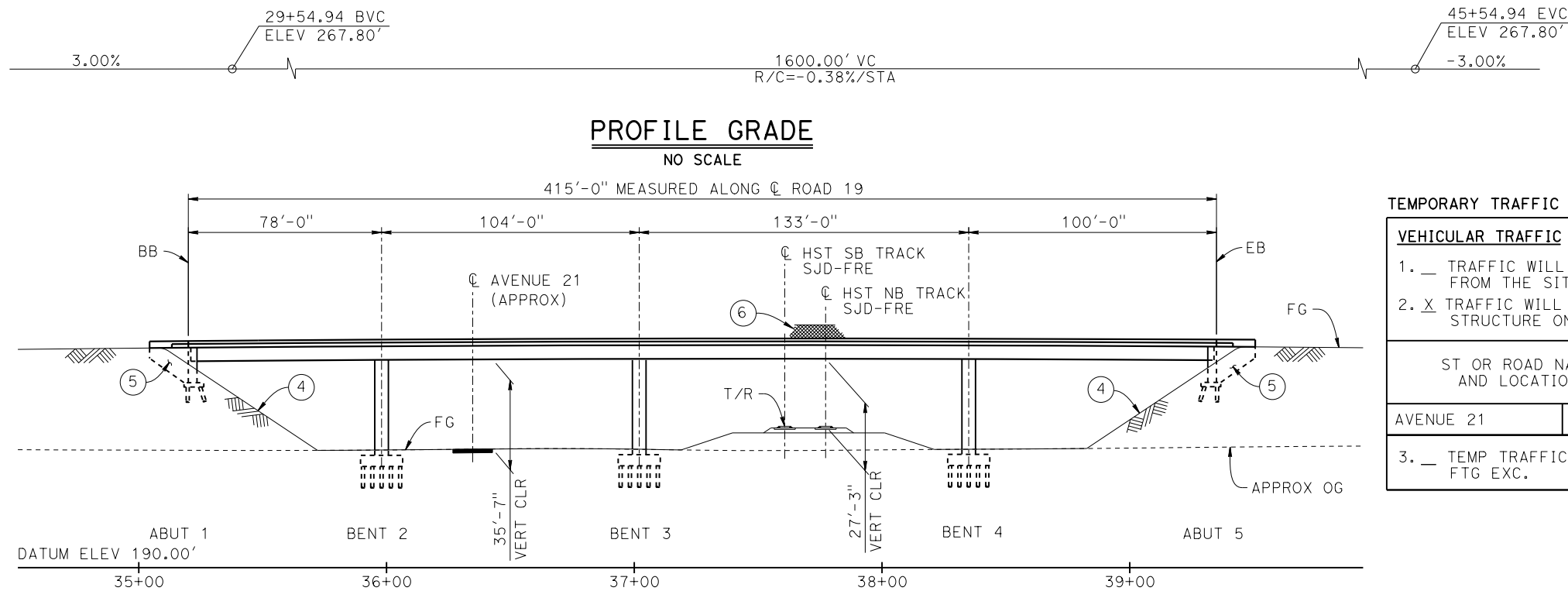
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA WAY (ROAD 16) OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1230-C
SCALE AS SHOWN
SHEET NO.

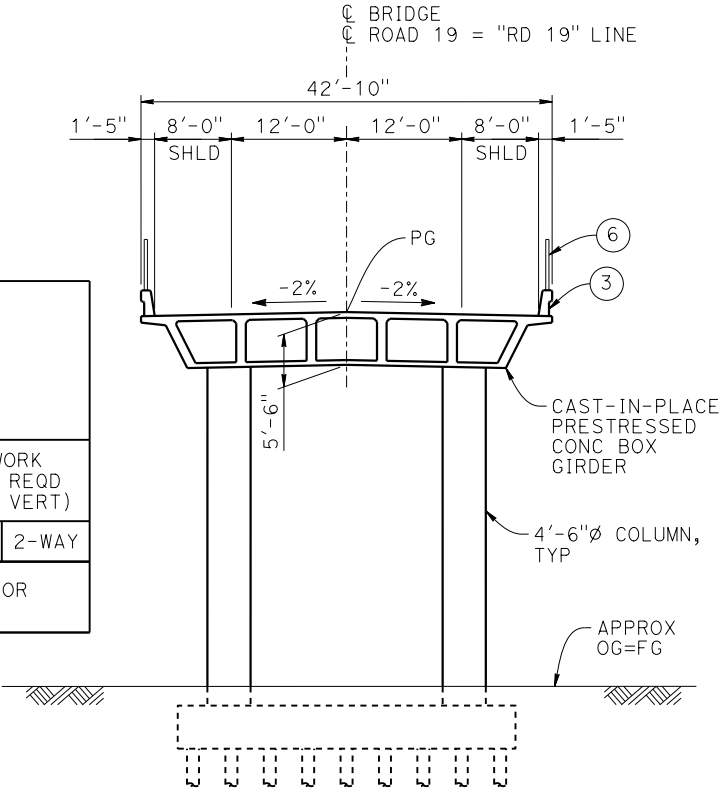


TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ x VERT)	
AVENUE 21	36+34	32'x16.5'	2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



TYPICAL SECTION

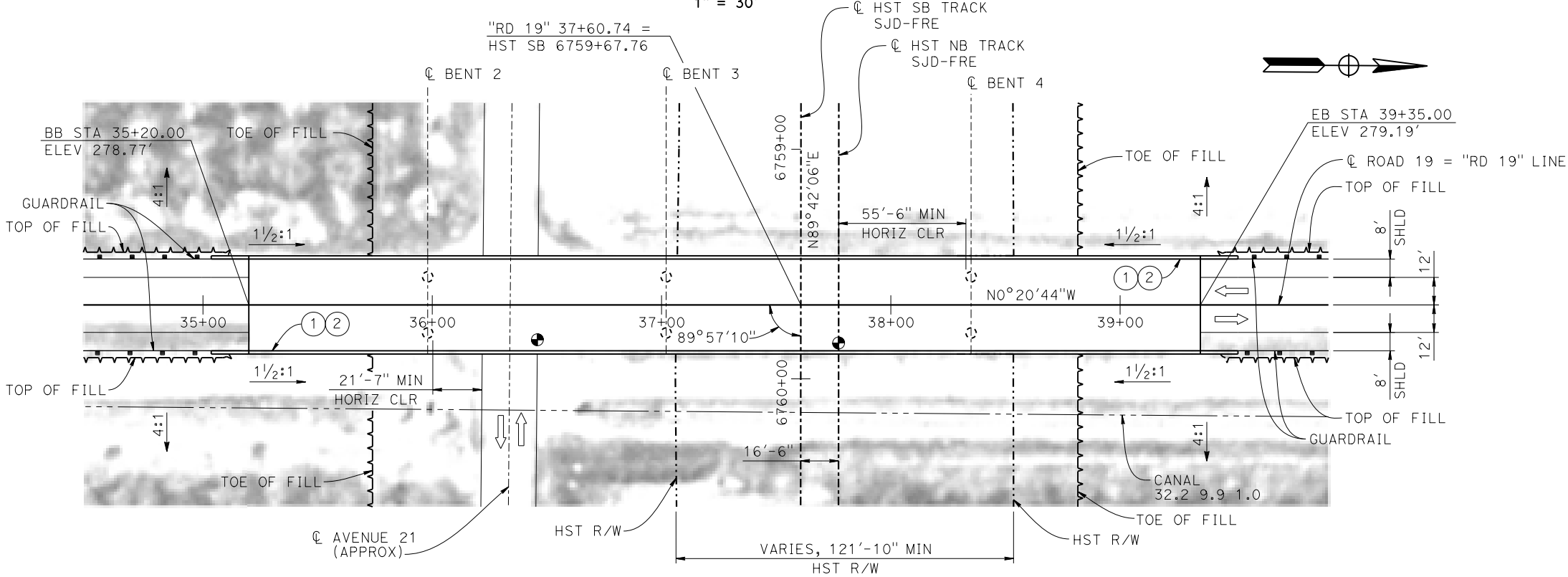
1" = 10'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- PAINT "ROAD 19 OVERHEAD"
- PAINT "BRIDGE NO. XX-XXXX"
- CONCRETE BARRIER TYPE 736 MOD
- SLOPE PAVING (1½H:1V)
- WINGWALL
- AR FENCE WITH SOLID PLATE

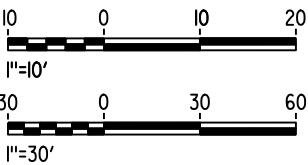
NOTES:

- ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1260-S.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1260-S.



PLAN

1" = 30'



MF-ST-K1260-C.dgn

28-APR-2015 9:17

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY W. JOHNSON
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

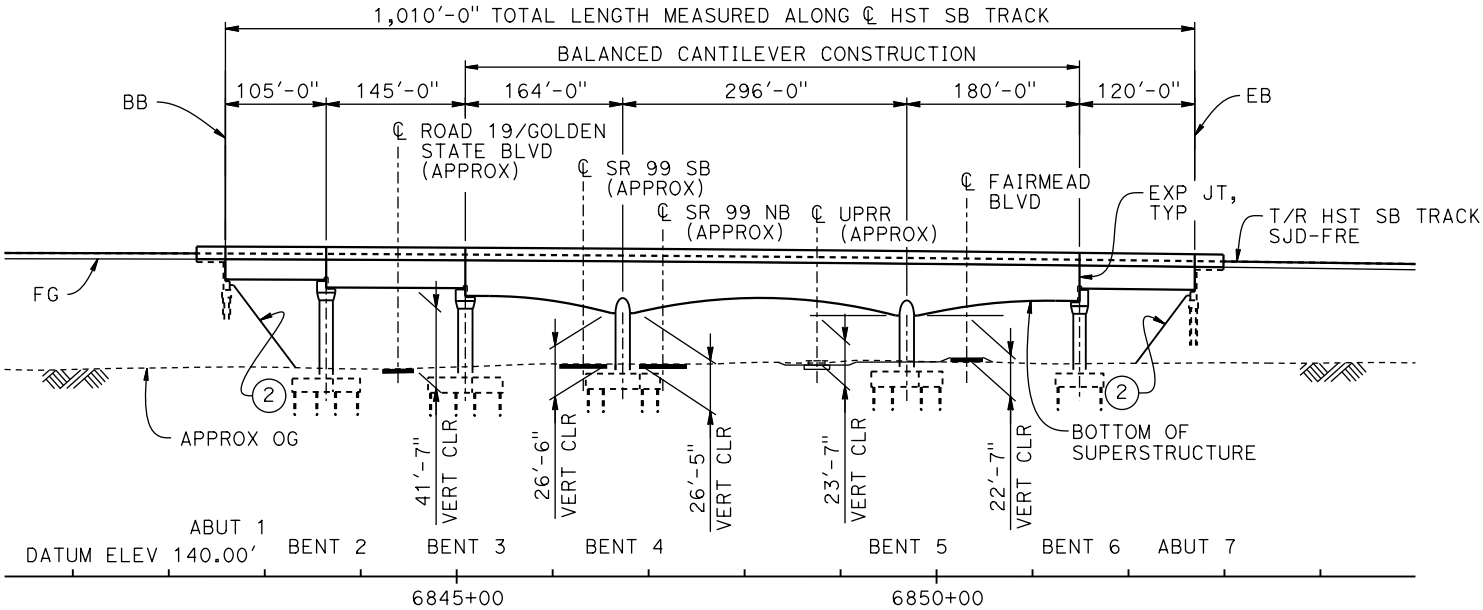
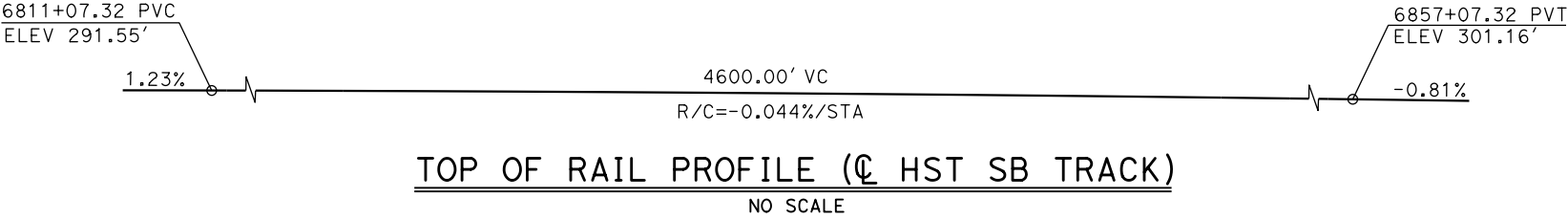
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

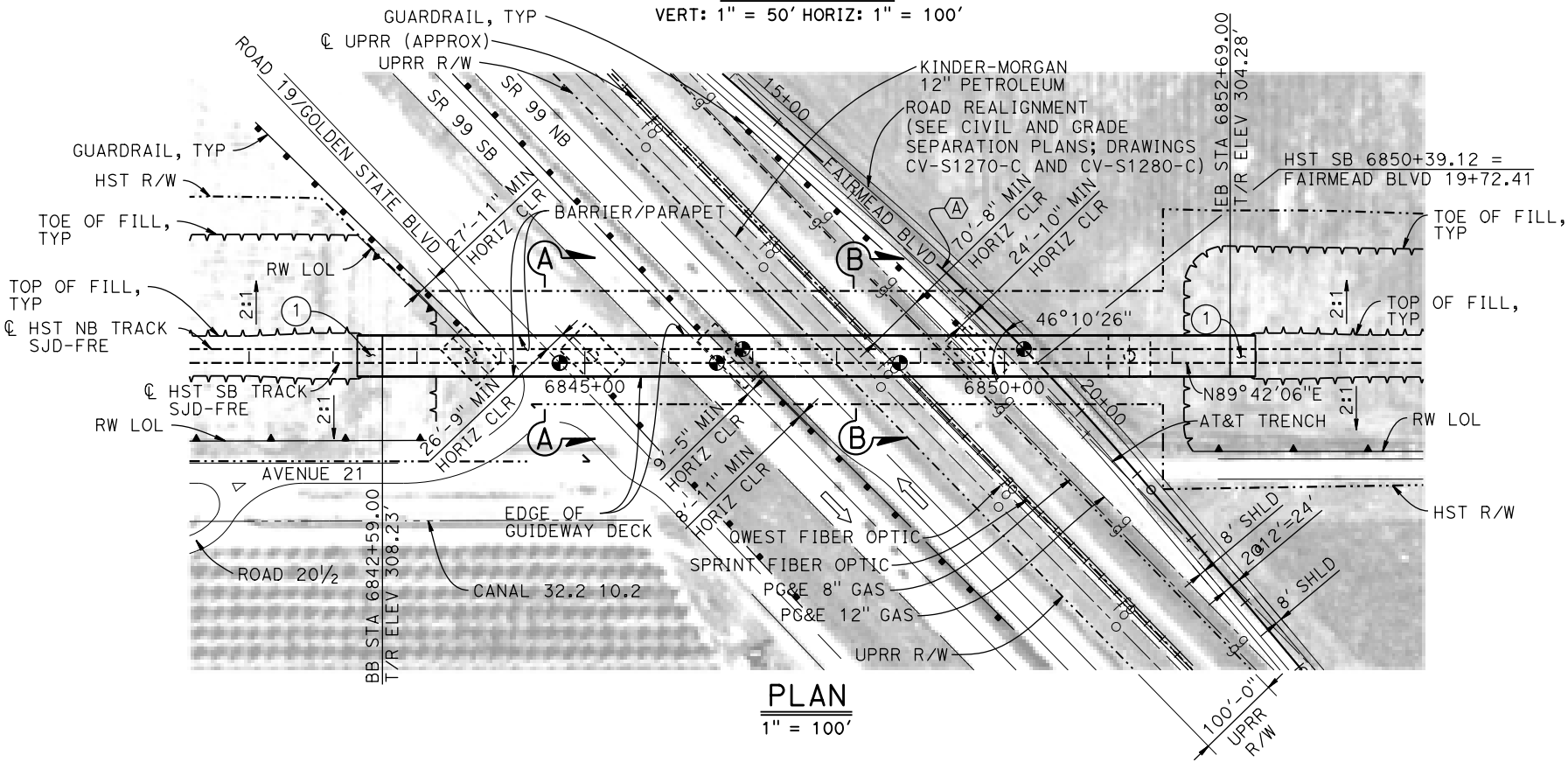
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROAD 19 OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1260-C
SCALE AS SHOWN
SHEET NO.



ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'



PLAN

1" = 100'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ROAD 19/GOLDEN STATE BLVD	6844+40	40'x16.5'	2-WAY
SR 99	6846+35	52'x16.5'	S BND
SR 99	6847+30	52'x16.5'	N BND
FAIRMEAD BLVD	6850+39	32'x16.5'	2-WAY

3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

TEMPORARY TRAFFIC OPENINGS

RAILROAD TRAFFIC

FALSEWORK OPENING REQUIRED ON:

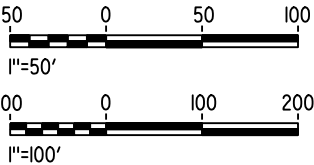
NAME OF RR AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)
UPRR	6848+68	24'x21'

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3275-C.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1270-C AND CV-S1280-C.
5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1270-C AND CV-S1280-C.
6. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1270-C AND CV-S2180-C.

CURVE NO. 270-02 (A)

R = 3,000.00'
Δ = 1°54'35"
L = 454.11'
T = 227.49'



16-MAR-2016 09:19 MF-ST-K1275-C.dgn

00042226

DESIGNED BY
M. SUN

DRAWN BY
S. HICKS

CHECKED BY
O. EDEWOR

IN CHARGE
C. LEMLEY

DATE
05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #3 - SR 99 / UPRR - 1 OF 2

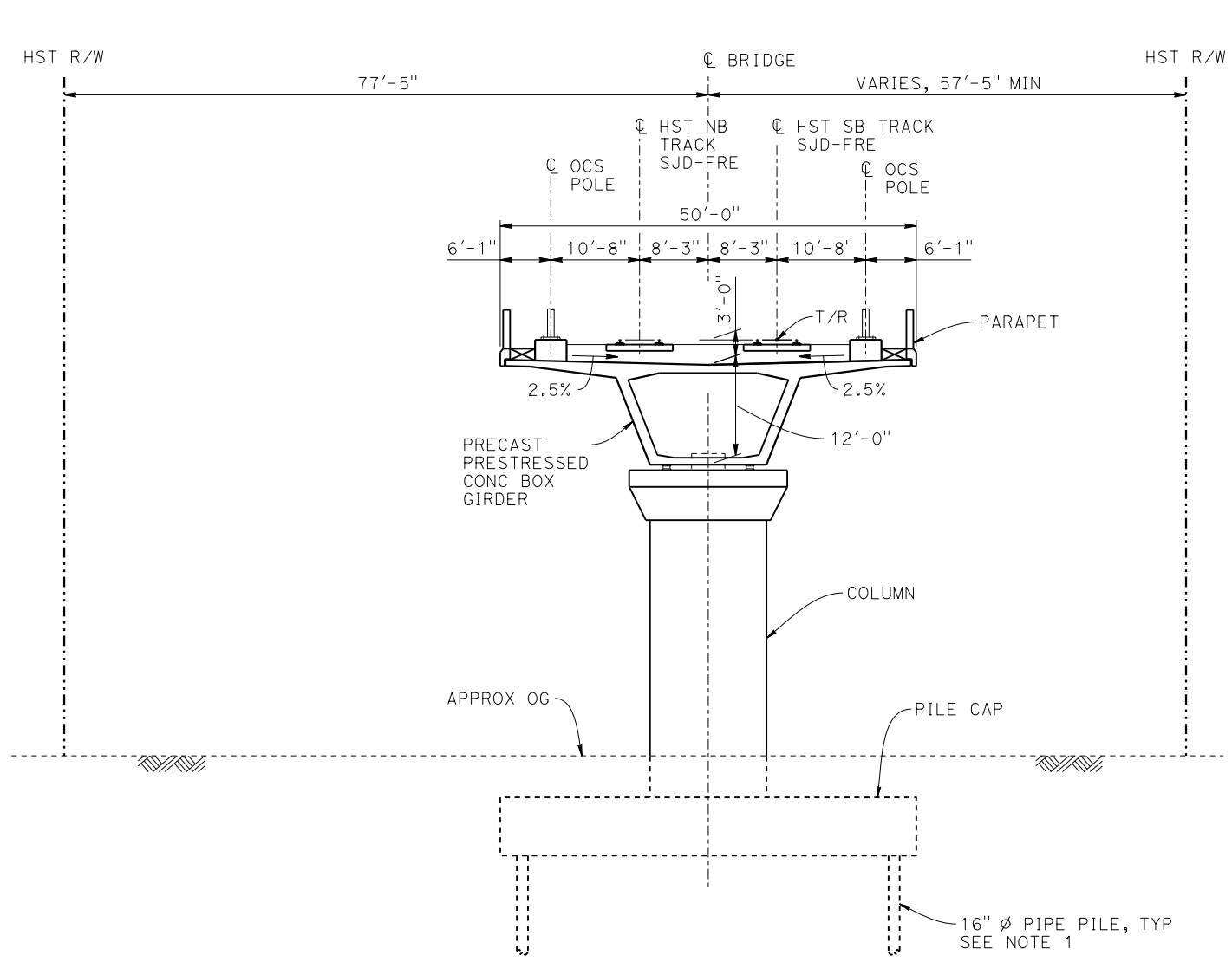
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1275-C

SCALE
AS SHOWN

SHEET NO.

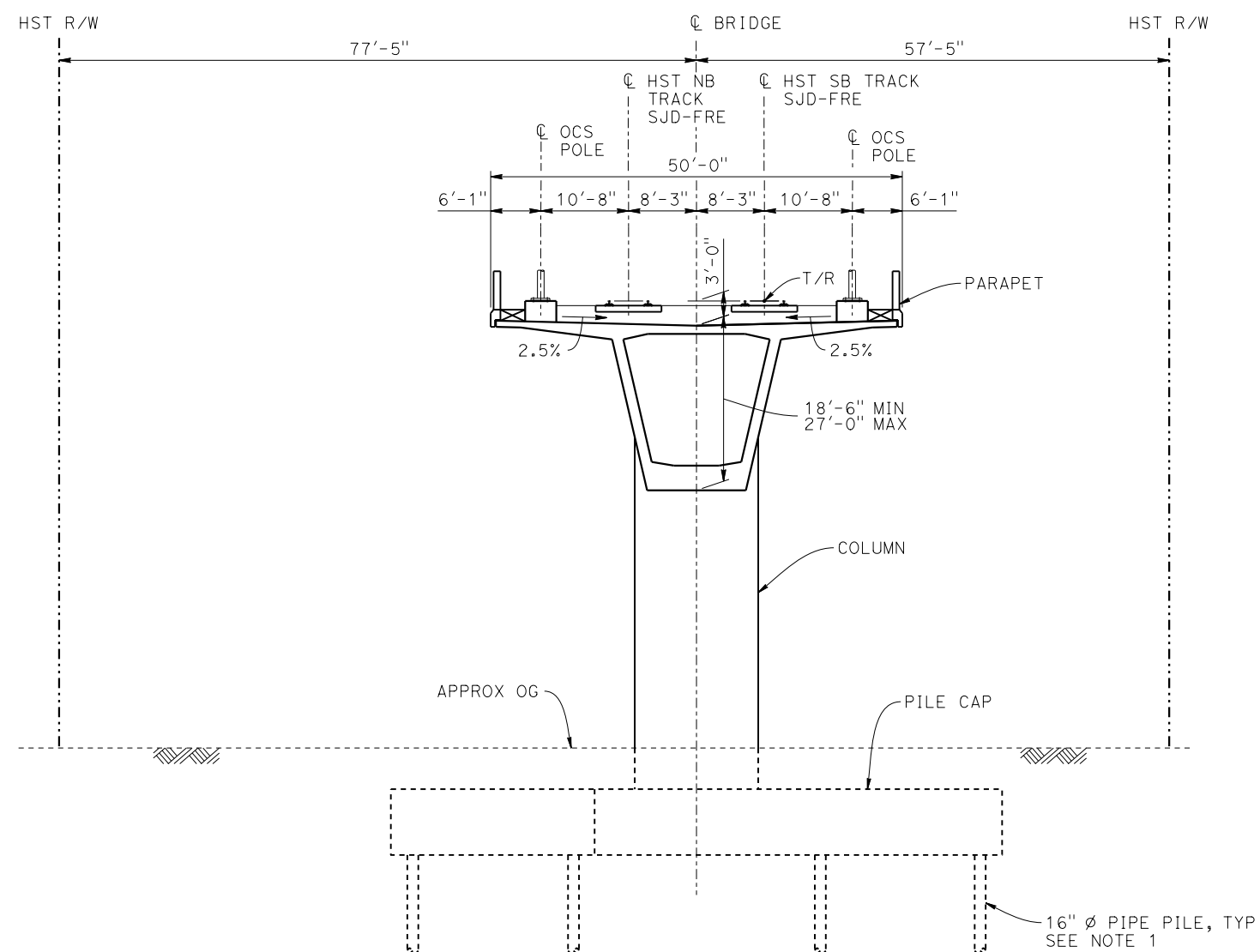
p005133g 05-FEB-2015 11:46 MF-ST-K3275-C.dgn



SECTION A-A
1" = 10'

BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2 - 3	14'-0" Ø
4 - 5	15'-0" Ø
6	13'-0" Ø

NOTES:
1. PILE LENGTHS TO BE DETERMINED.



SECTION B-B
1" = 10'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY S. HICKS
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

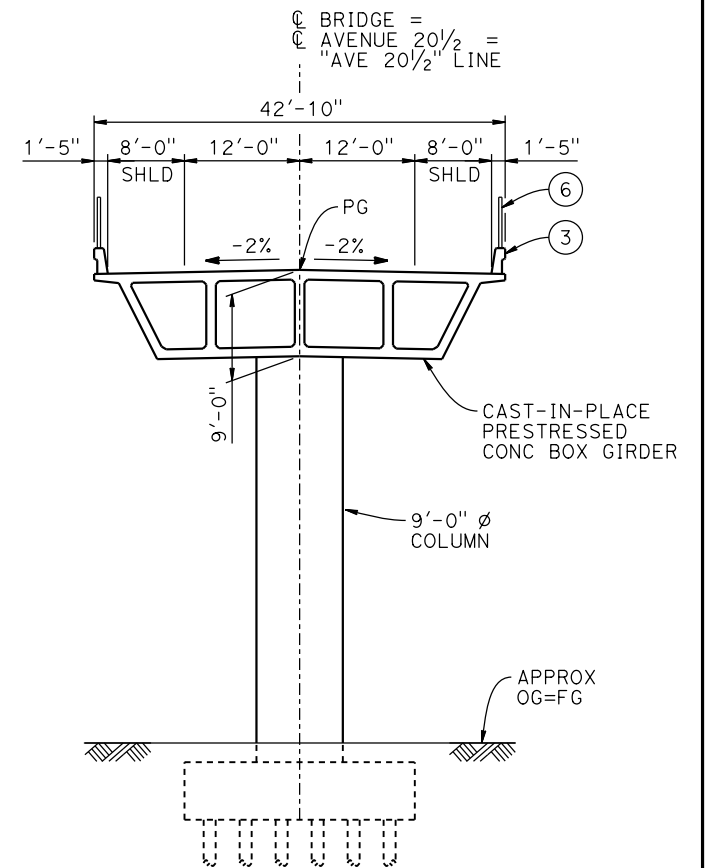
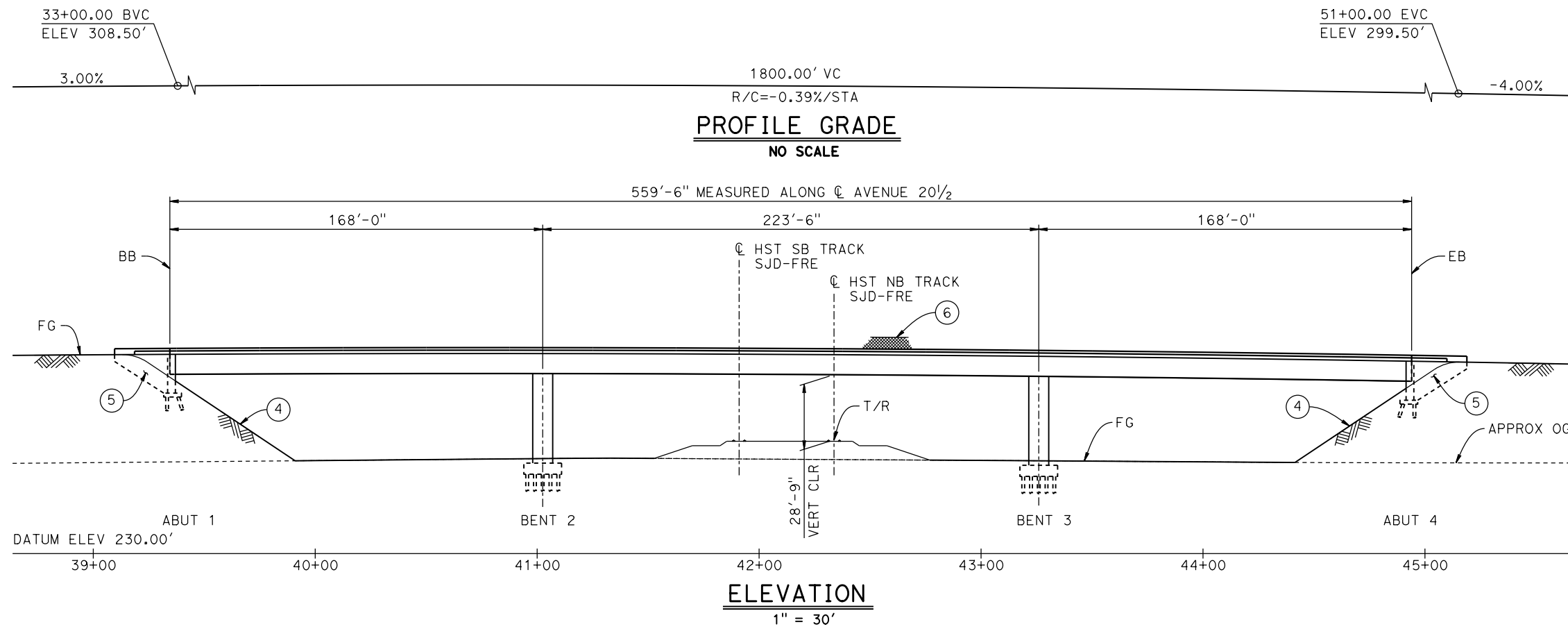
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
AERIAL #3 - SR 99 / UPRR - 2 OF 2

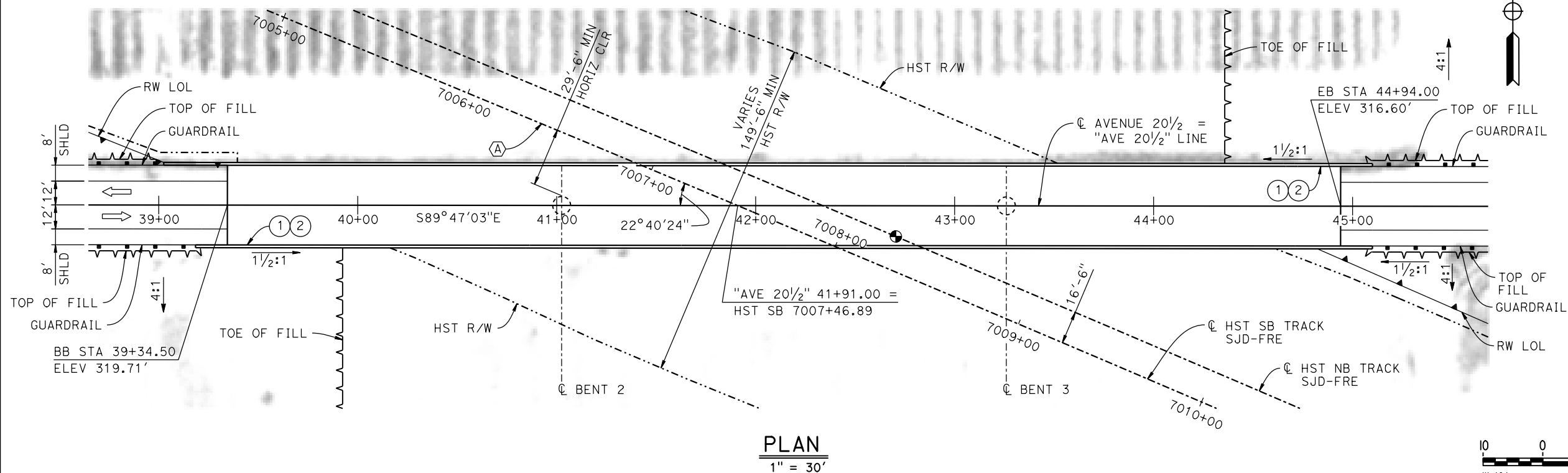
CONTRACT NO. HSR08-05
DRAWING NO. ST-K3275-C
SCALE AS SHOWN
SHEET NO.

p005133a
10-MAR-2016 7:33
MF-ST-K1300-C.dgn



TYPICAL SECTION
1" = 10'

CURVE SJD-FRE 7 SB (A)
R = 35,000.00'
LS = 1,750.00'

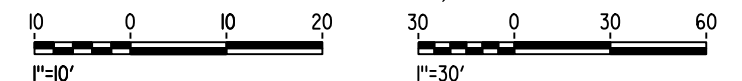


LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- PAINT "AVENUE 20 $\frac{1}{2}$ OVERHEAD"
- PAINT "BRIDGE NO. XX-XXXX"
- CONCRETE BARRIER TYPE 736 MOD
- SLOPE PAVING (1 $\frac{1}{2}$ H:1V)
- WINGWALL
- AR FENCE WITH SOILD PLATE

NOTES:

- ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1300-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1300-C.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1300-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY W. JOHNSEN
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

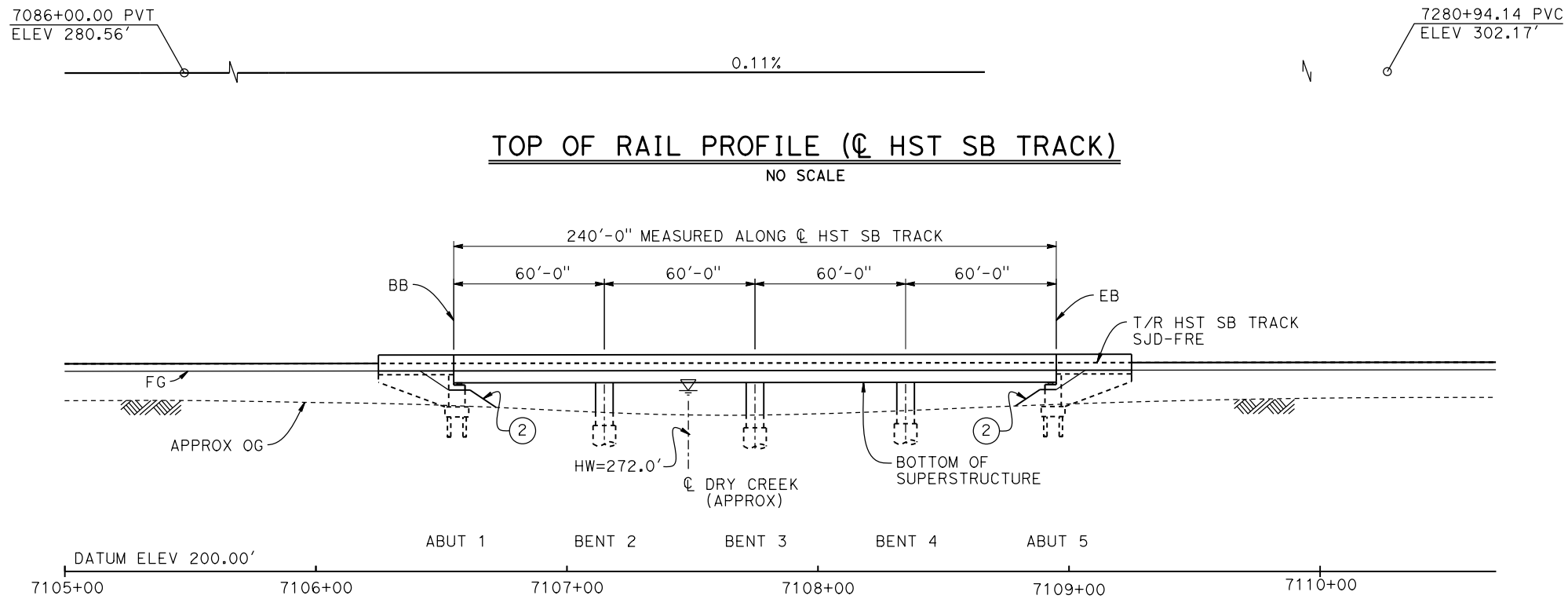


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

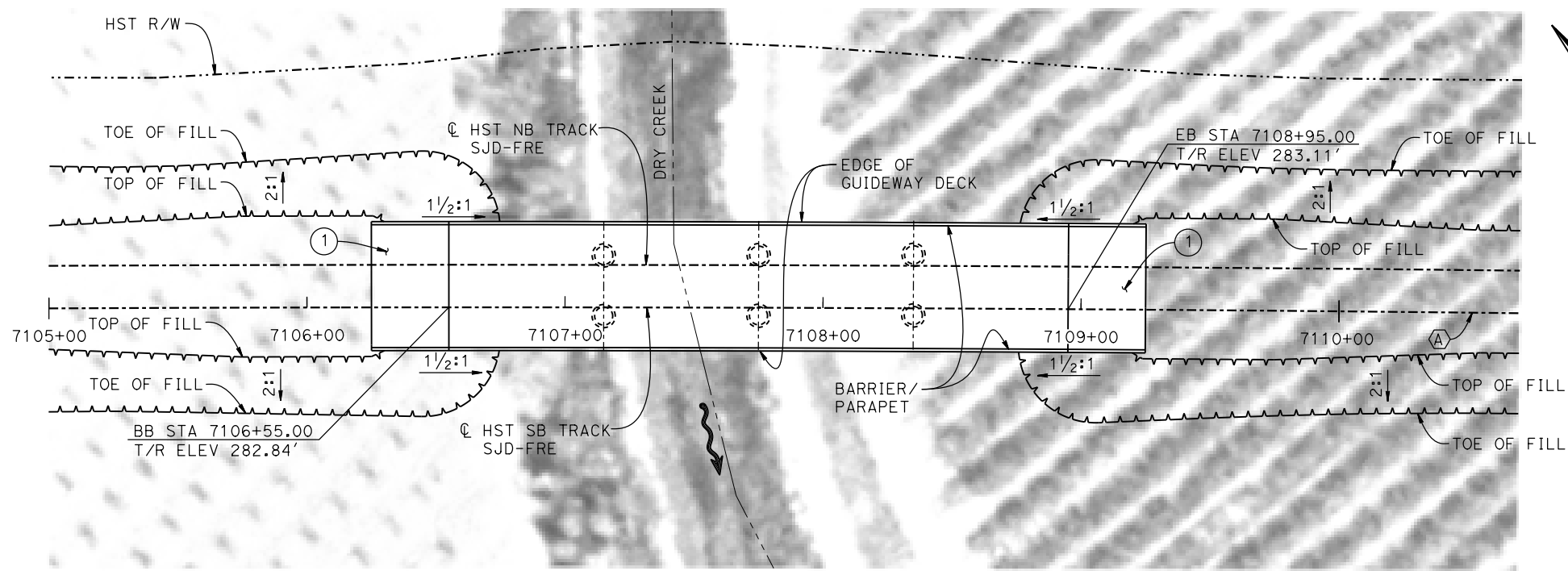
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AVENUE 20 $\frac{1}{2}$ OVERHEAD

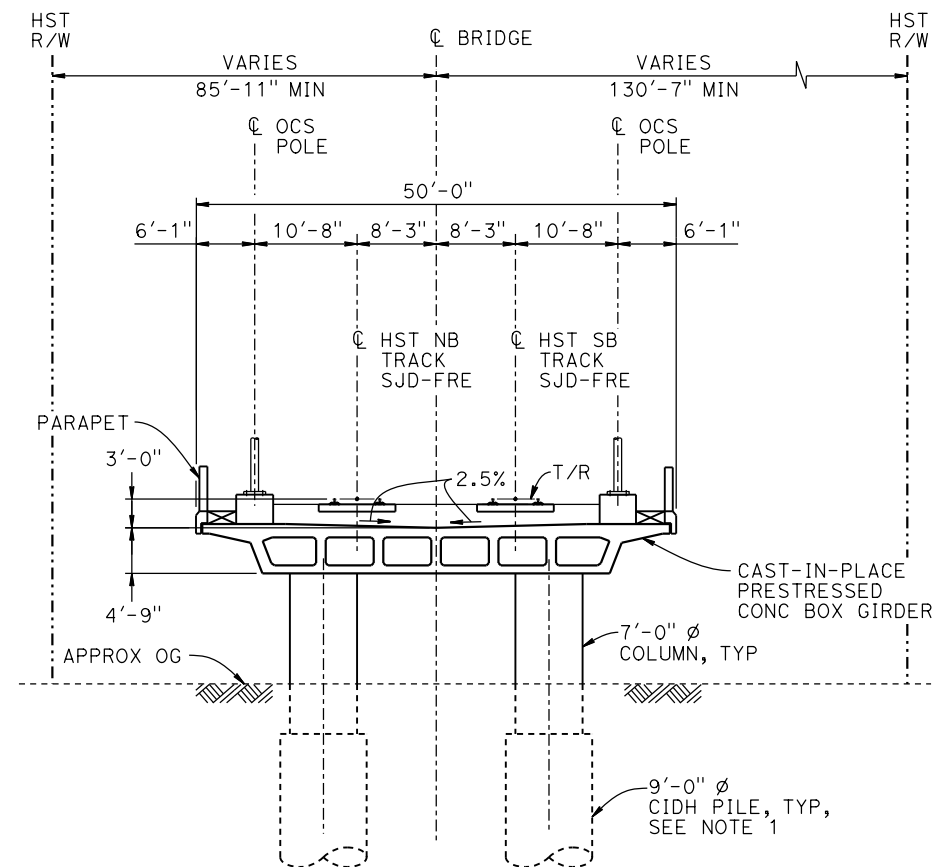
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1300-C
SCALE AS SHOWN
SHEET NO.



DEVELOPED ELEVATION
1" = 30'



PLAN
1" = 30'



TYPICAL SECTION
1" = 10'

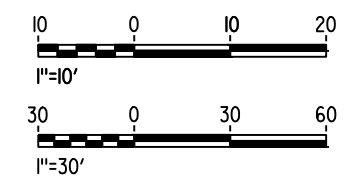
LEGEND:

- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

NOTES:

- 16"Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1320-C.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0052-C.

CURVE SJD-FRE 7 SB (A)
R = 35,000.00'
LS = 1,750.00'



MF-ST-K1320-C.dgn 10-MAR-2016 17:34 p005133a

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

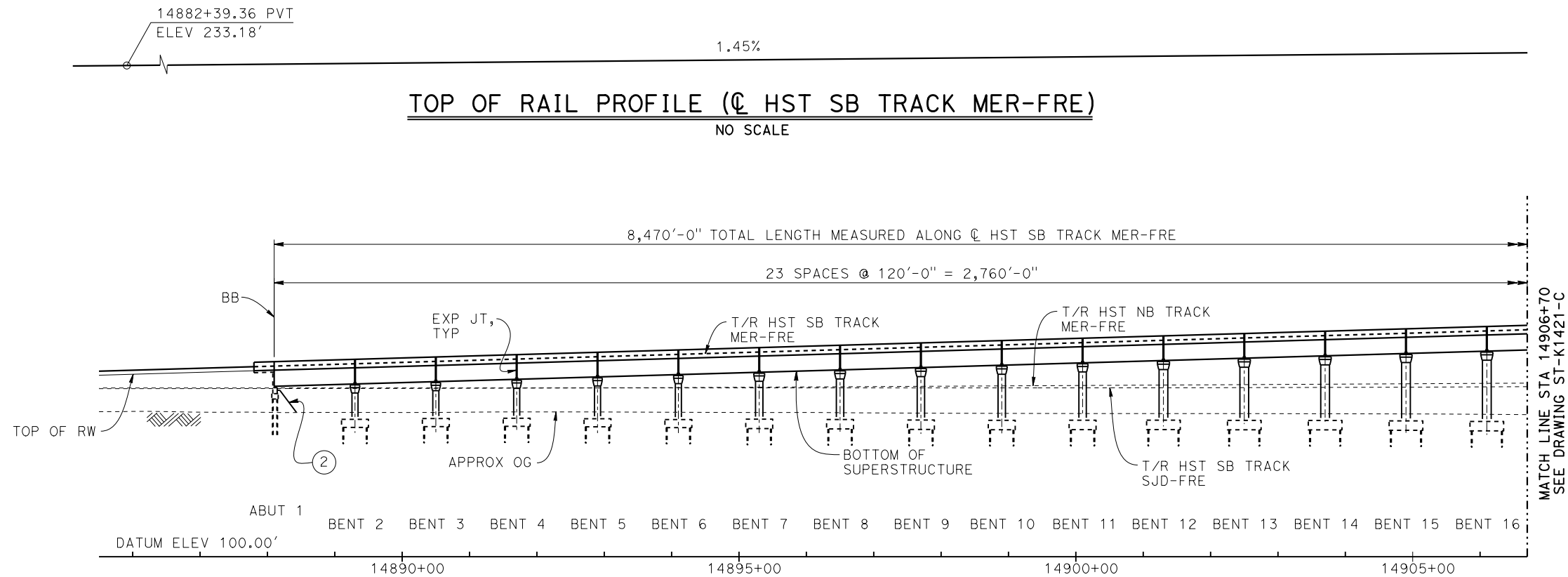


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

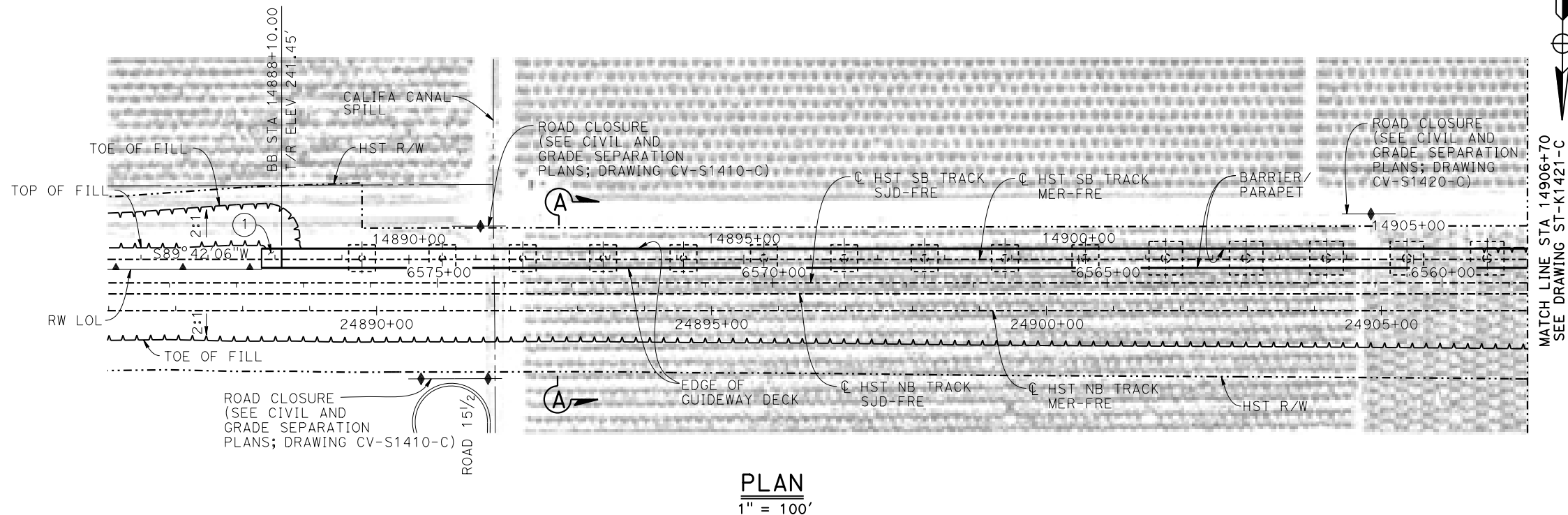
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
DRY CREEK BRIDGE

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1320-C
SCALE AS SHOWN
SHEET NO.

p005133g 28-APR-2015 09:24 MF-ST-K1420-C.dgn



DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'



LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

CURVE MER-FRE 1 SB (A)

R = 10,375.00'
LS = 1,500.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

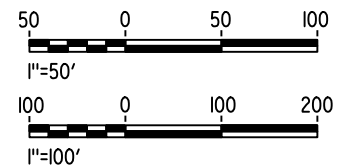
- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
LEVEE ROAD	14943+78	20'X16.5'	-
LEVEE ROAD	14945+62	20'X16.5'	-
ROAD 14	14971+49	32'X16.5'	2-WAY

3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
- FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWINGS ST-K3420-C AND ST-K3421-C.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1410-C, CV-S1420-C AND CV-S1430-C.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1410-C, CV-S1420-C, AND CV-S1430-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLAN; DRAWINGS CV-S1410-C, CV-S1420-C AND CV-S1430-C.
- FOR HST NB BRIDGE OVER BERENDA SLOUGH GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1426-C.
- FOR ROAD 14 UNDERPASS (HST NB) GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1430-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

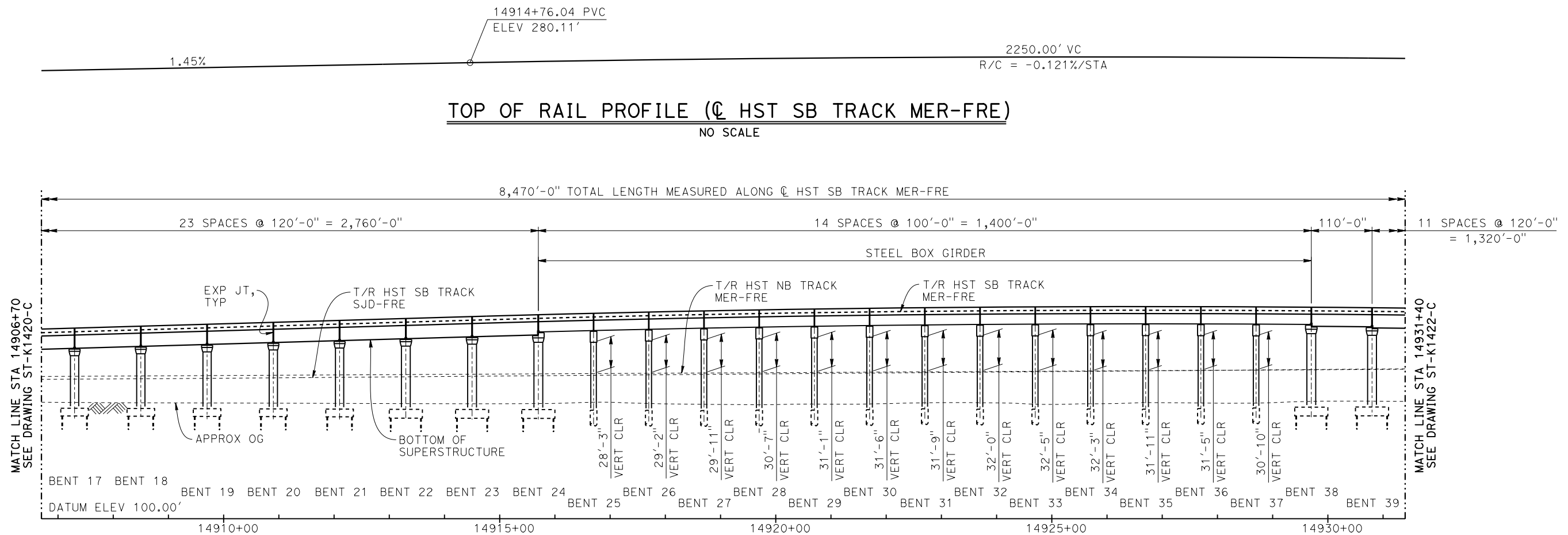


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 1 OF 6

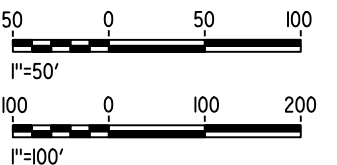
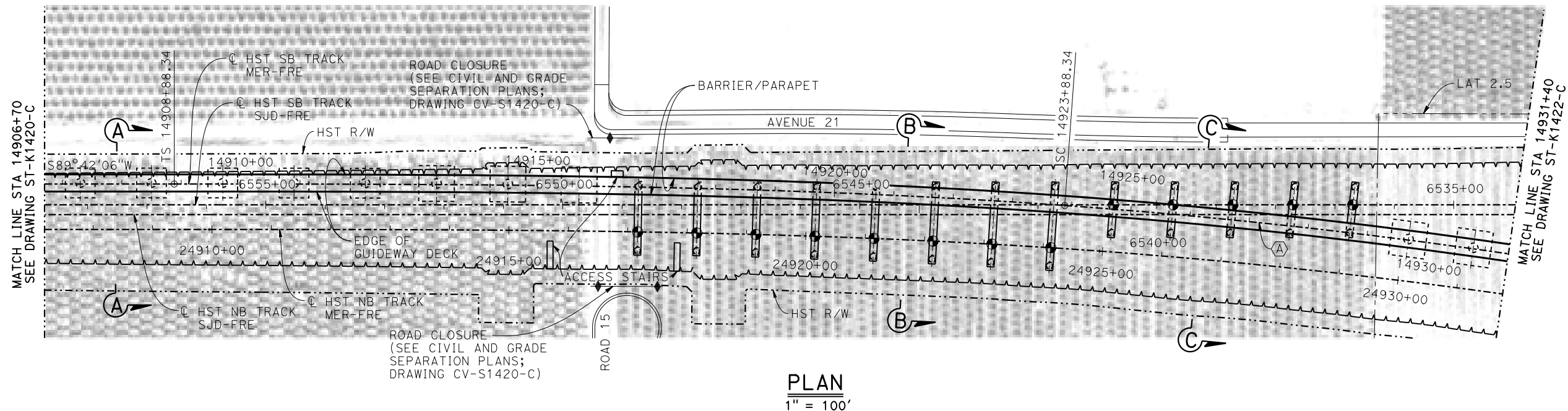
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1420-C
SCALE AS SHOWN
SHEET NO.

p005133g
28-APR-2015 09:25
MF-ST-K1421-C.dgn



DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

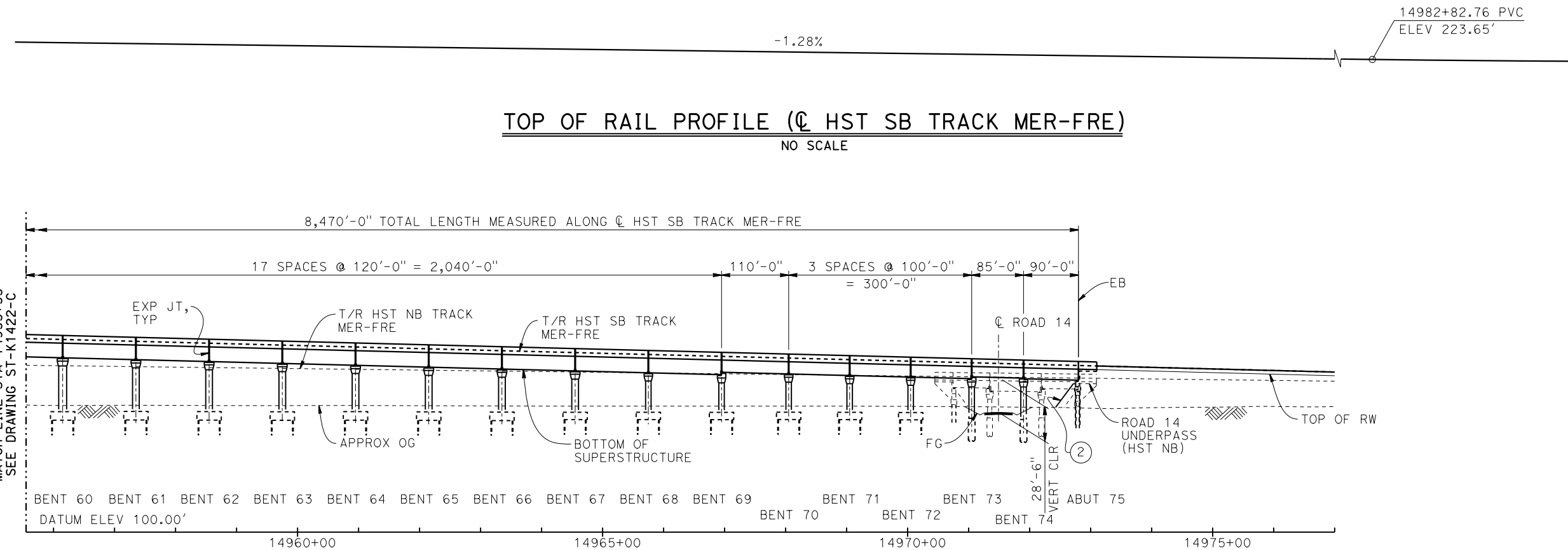
**NOT FOR
CONSTRUCTION**



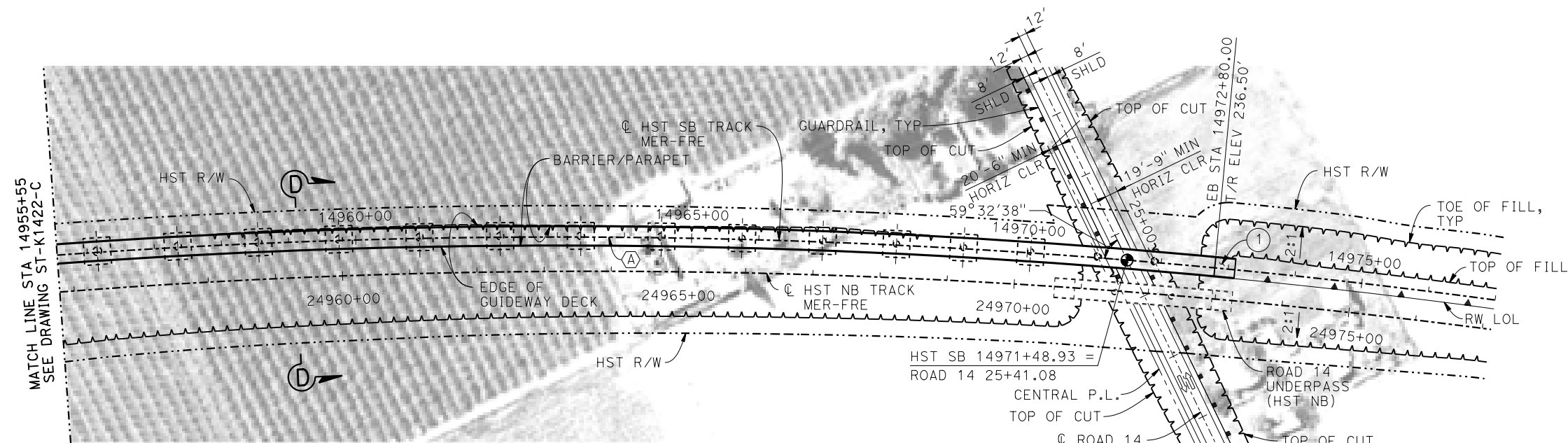
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 2 OF 6

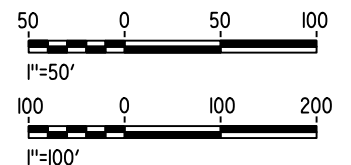
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1421-C
SCALE AS SHOWN
SHEET NO.



DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'



PLAN
1" = 100'



MF-ST-K1423-C.dgn

28-APR-2015 9:27

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

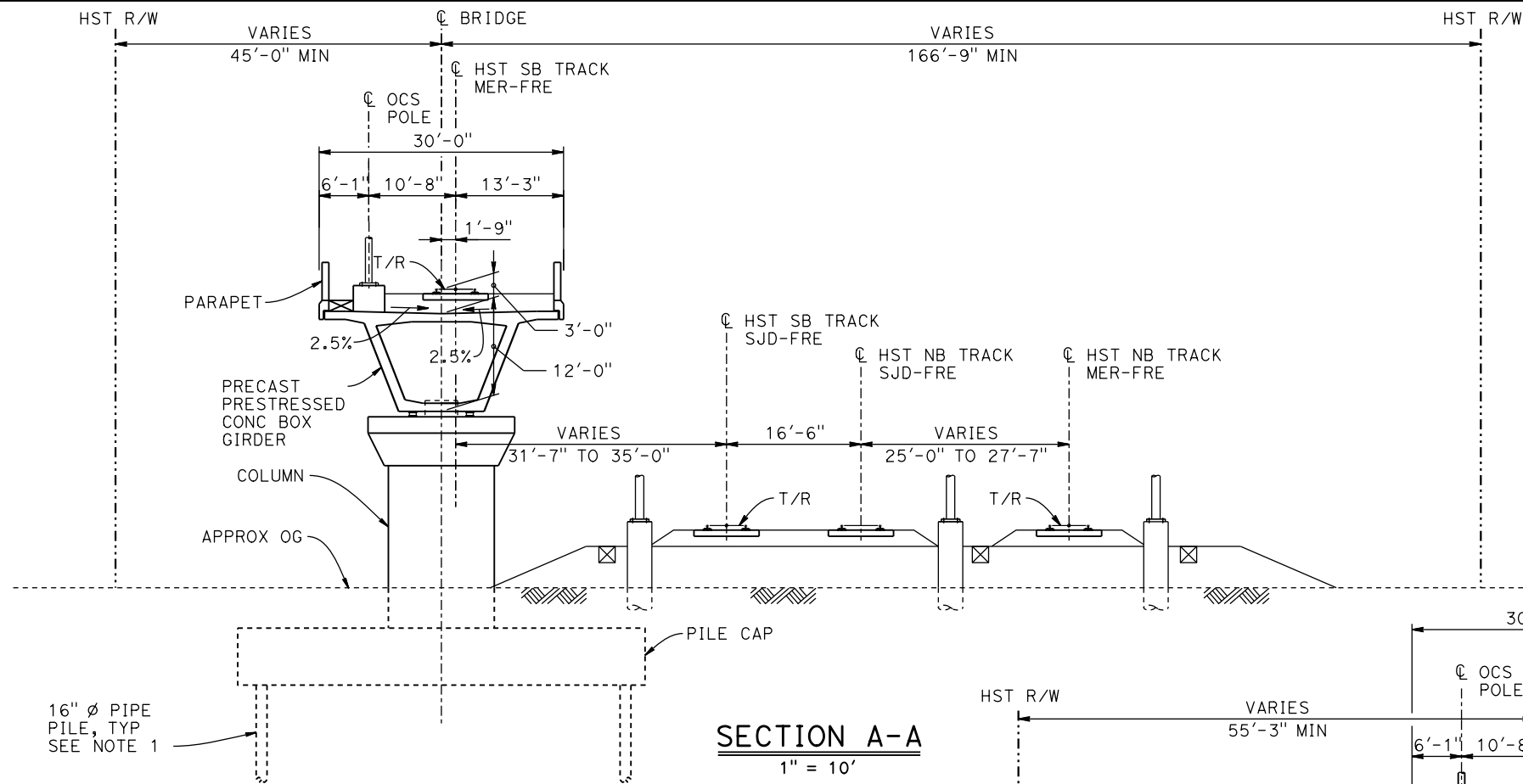


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 4 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1423-C
SCALE AS SHOWN
SHEET NO.

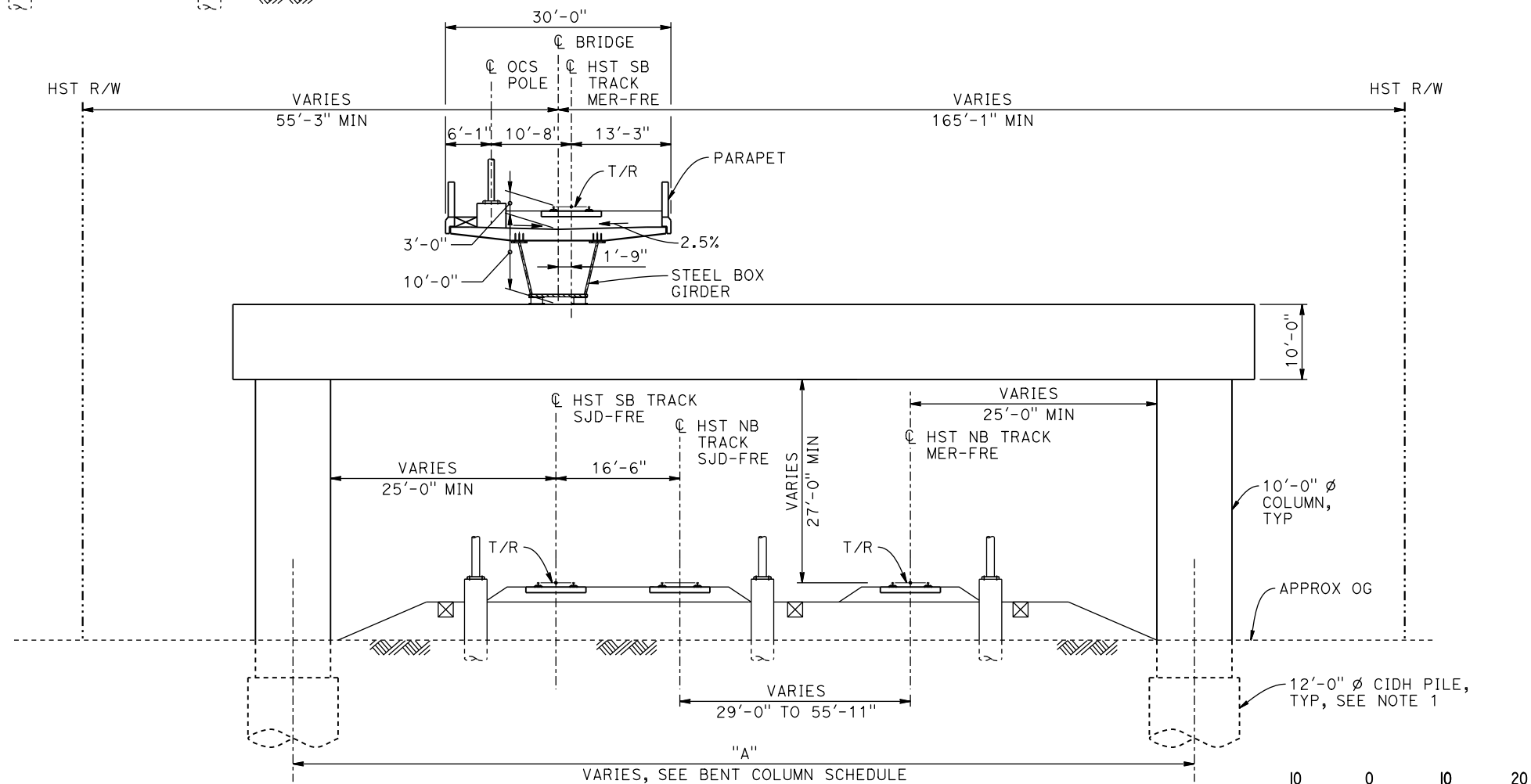
16-MAR-2016 09:19 MF-ST-K3420-C.dgn



SECTION A-A
1" = 10'

NOTES:

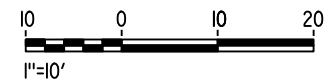
1. DRILLED SHAFT AND PILE LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-C.



SECTION B-B
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	"A"
2 - 6	9'-0"Ø	
7 - 11	11'-0"Ø	
12 - 16	13'-0"Ø	
17 - 21	15'-0"Ø	
22 - 24	16'-0"Ø	
25 - 26	2 - 10'-0"Ø	108'-0"
27	2 - 10'-0"Ø	110'-0"
28	2 - 10'-0"Ø	114'-0"
29	2 - 10'-0"Ø	117'-0"
30	2 - 10'-0"Ø	122'-0"
31	2 - 10'-0"Ø	127'-0"
32	2 - 10'-0"Ø	133'-0"
33 - 37	2 - 10'-0"Ø	78'-0"

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
38 - 46	16'-0"Ø	
47 - 53	15'-0"Ø	
54 - 60	13'-0"Ø	
61 - 67	11'-0"Ø	
68 - 72	9'-0"Ø	
73 - 74	9'-0"Ø	11'-0"Ø



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

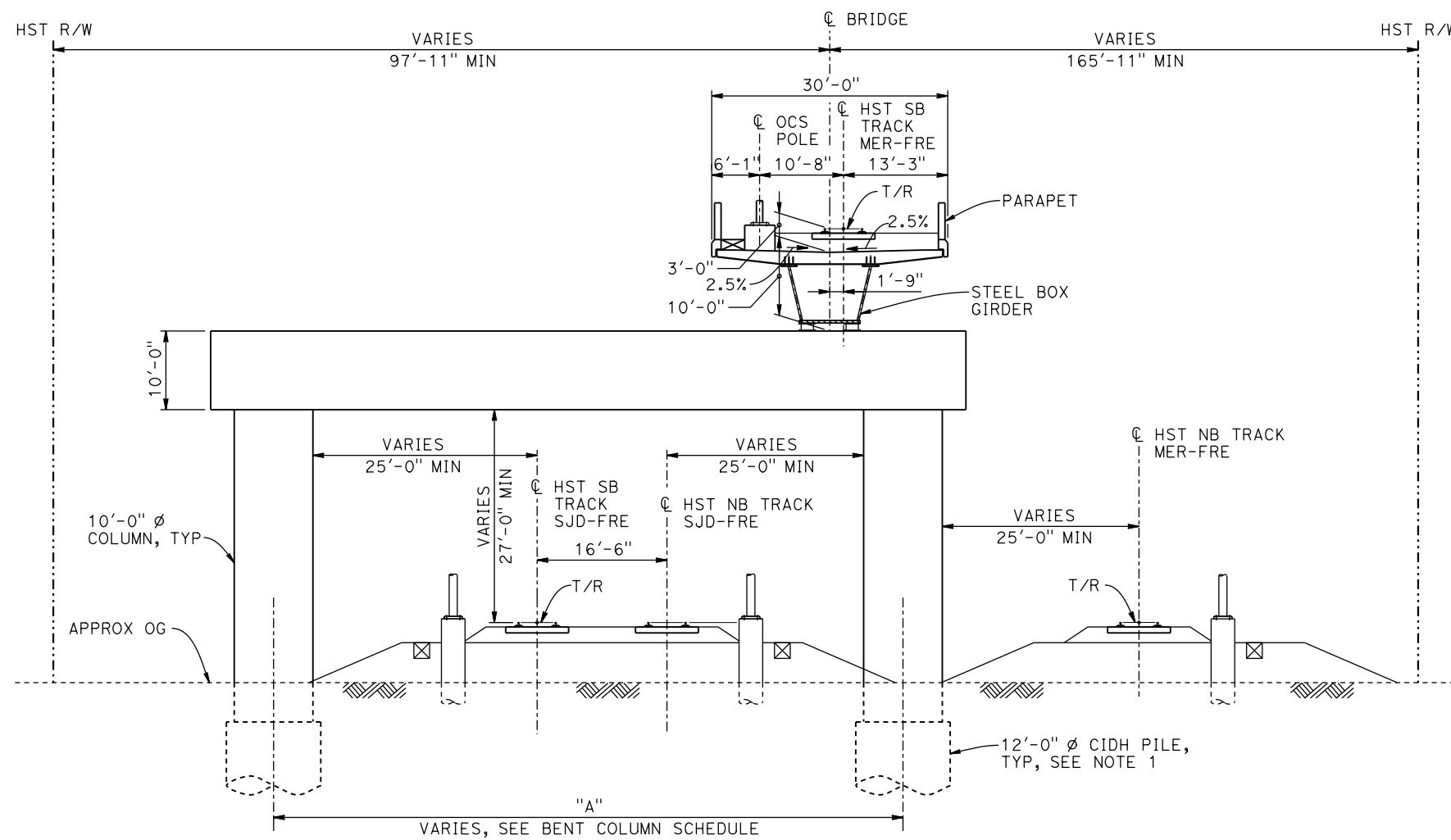


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (MER-FRE)
AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 5 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3420-C
SCALE AS SHOWN
SHEET NO.

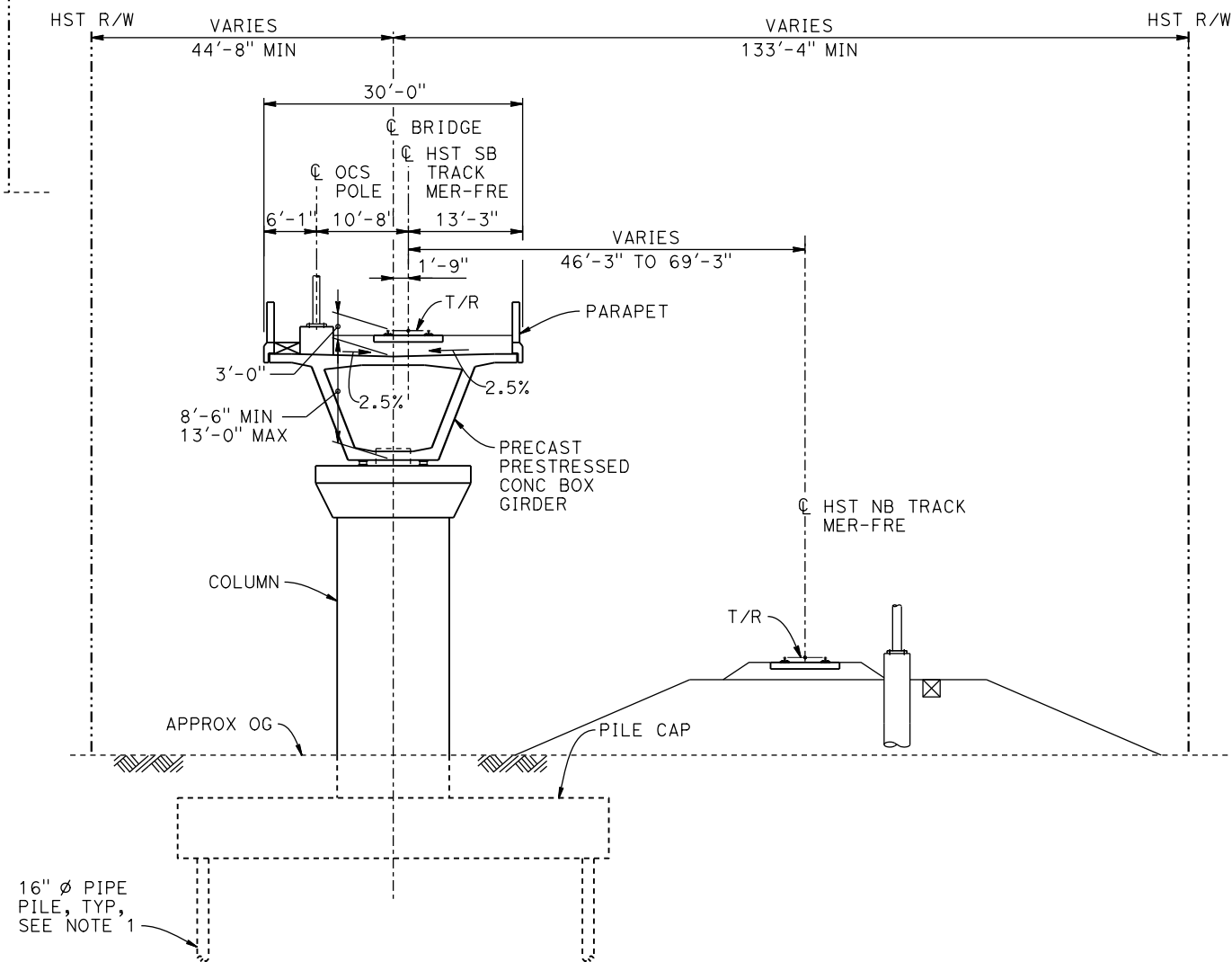
p0042226 17-MAR-2016 8:38 MF-ST-K3421-C.dgn



SECTION C-C
1" = 10'

NOTES:

1. DRILLED SHAFT AND PILE LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-C.



SECTION D-D
1" = 10'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

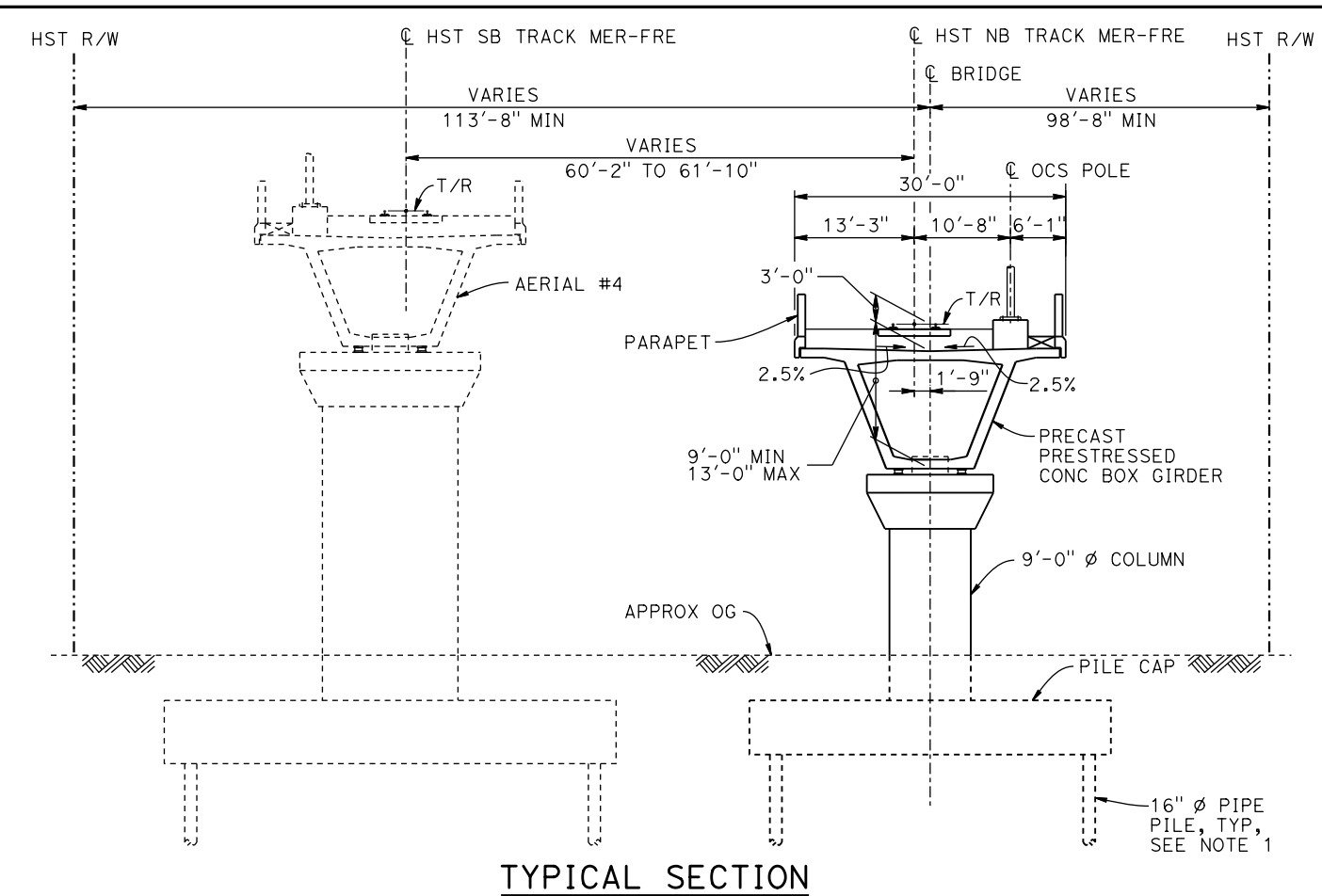
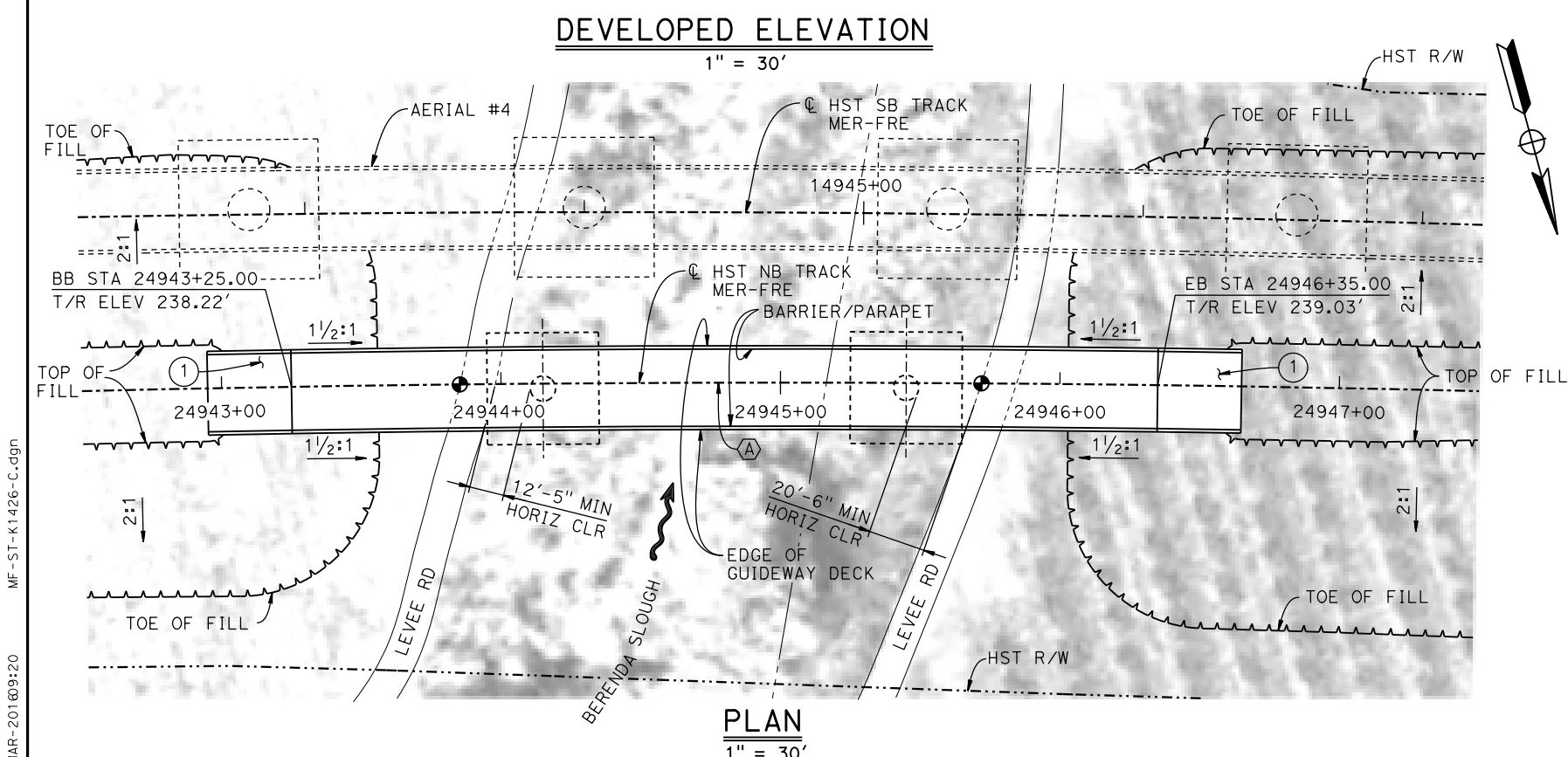
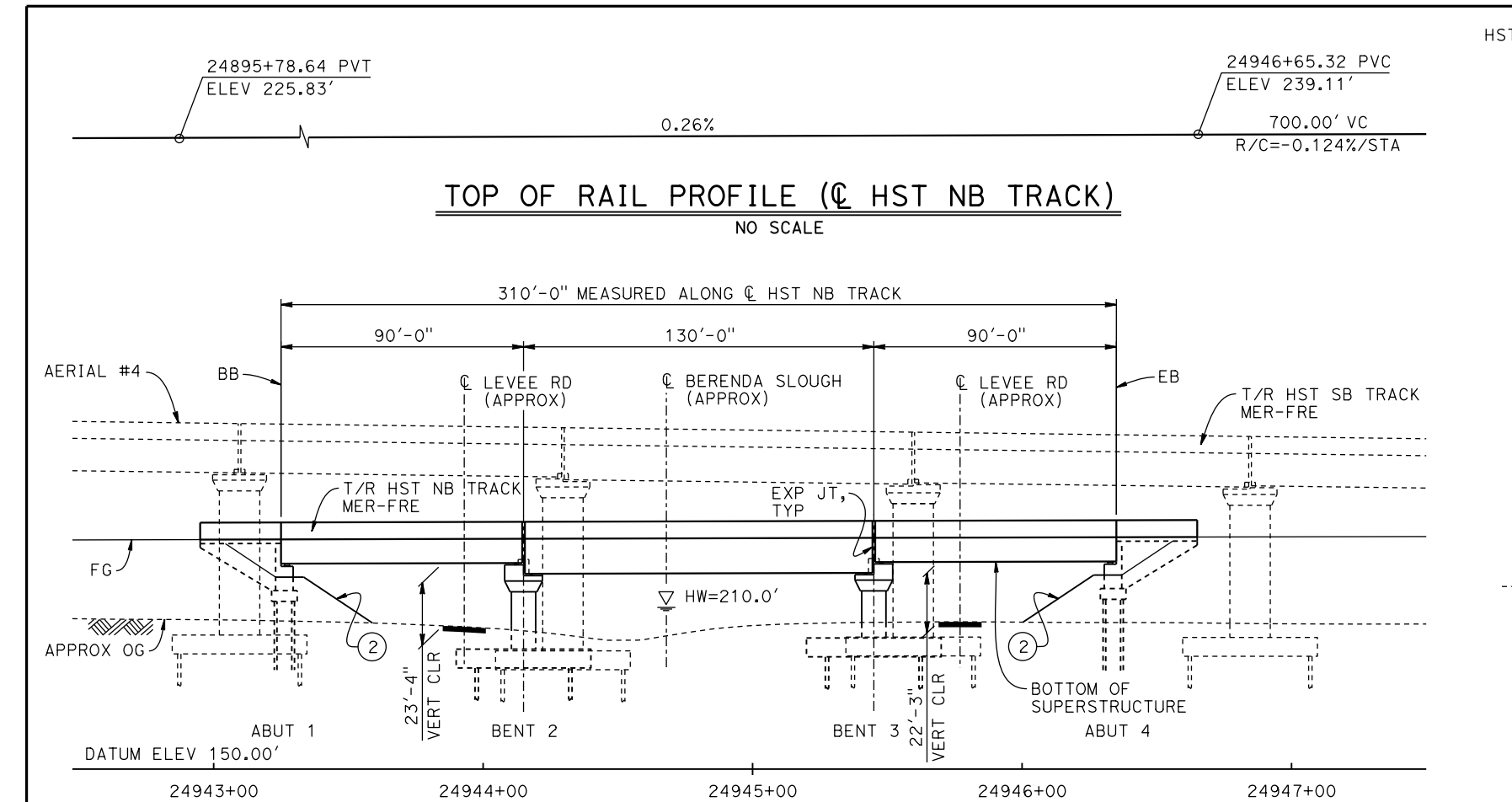
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (MER-FRE)
AERIAL #4 - SOUTHBOUND OVER HST MAINLINE - 6 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3421-C
SCALE AS SHOWN
SHEET NO.

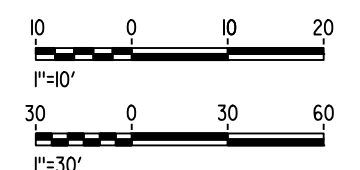


- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - INDICATES DIRECTION OF FLOW
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1 1/2 H:1 V)

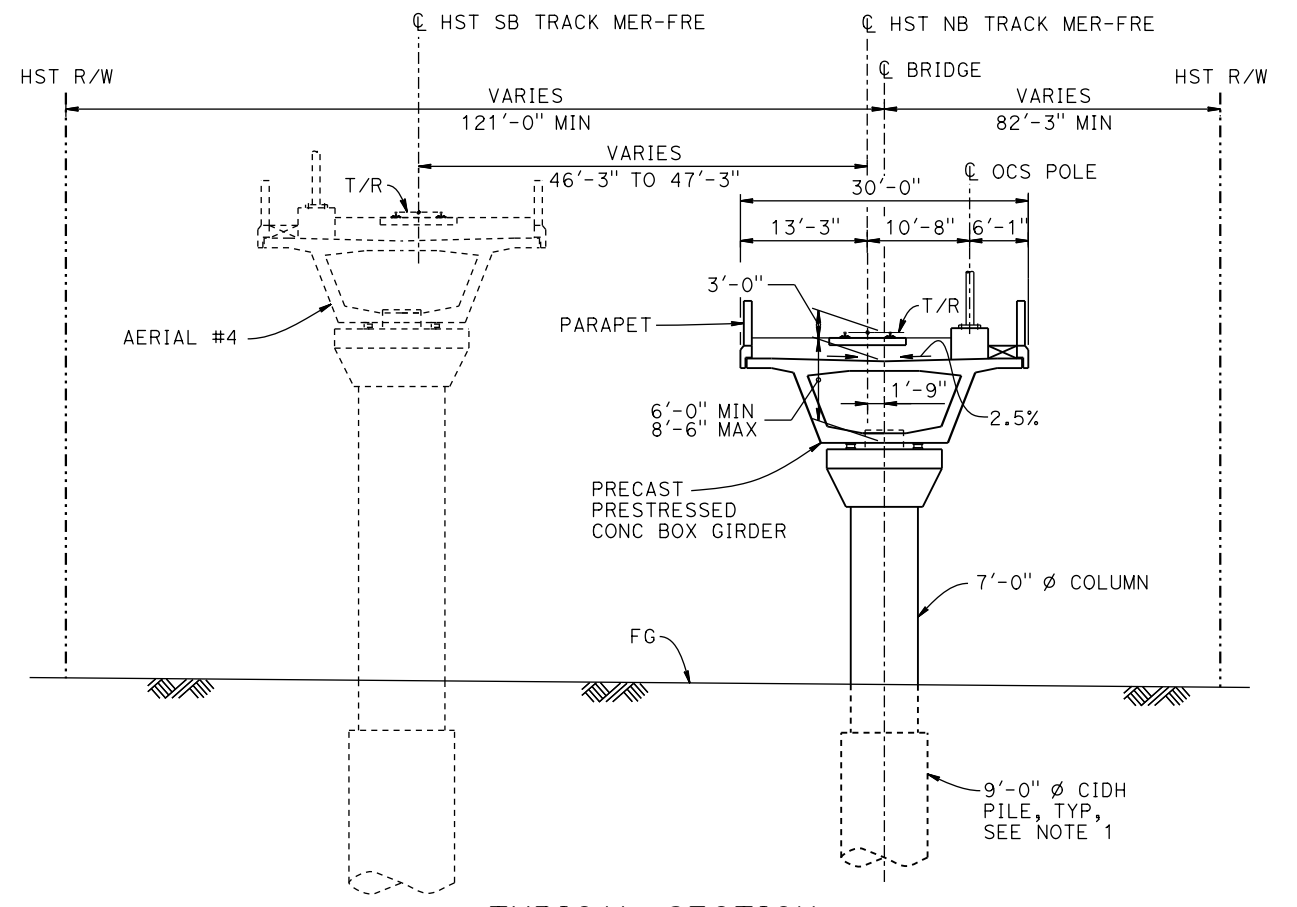
CURVE MER-FRE 1 NB (A)
R = 10,300.00'
LS = 1,500.00'

- NOTES:**
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1420-C.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR AERIAL #4 - SOUTHBOUND OVER HST MAINLINE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1420-C TO ST-K1423-C, ST-K3420-C, AND ST-K3421-C.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0057-C.

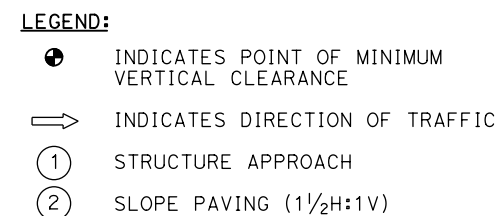
TEMPORARY TRAFFIC OPENINGS			
VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
LEVEE ROAD	24943+93	20'X16.5'	-
LEVEE ROAD	24945+77	20'X16.5'	-
3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



<div>DESIGNED BY M. SUN DRAWN BY A. M. CHECKED BY O. EDEWOR IN CHARGE C. LEMLEY DATE 05/08/2015</div>	<div>RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION</div>	<div>PARSONS</div>	<div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>	<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE AVENUE 21 TO ROAD 13 WYE ALTERNATIVE GENERAL PLAN (MER-FRE) HST NB BRIDGE OVER BERENDA SLOUGH</div>	<div>CONTRACT NO. HSR08-05 DRAWING NO. ST-K1426-C SCALE AS SHOWN SHEET NO.</div>					
REV	DATE	BY	CHK	APP	DESCRIPTION					



DEVELOPED ELEVATION
1" = 30'



R = 10,300.00'
LS = 1,500.00'

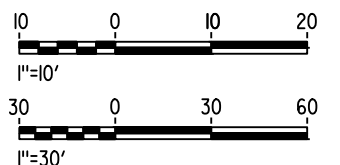
VEHICULAR TRAFFIC

1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ROAD 14	24971+92	32'X16.5'	2-WAY
3. __ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1430-C.
3. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1430-C.
4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1430-C.
5. FOR AERIAL #4 - SOUTHBOUND OVER HST MAINLINE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1420-C TO ST-K1423-C, ST-K3420 AND ST-K3421-C.
6. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0057-C.



						DESIGNED BY M. SUN
						DRAWN BY A. M.
						CHECKED BY O. EDEWOR
						IN CHARGE C. LEMLEY
						DATE 05/08/2015
REV	DATE	BY	CHK	APP		DESCRIPTION

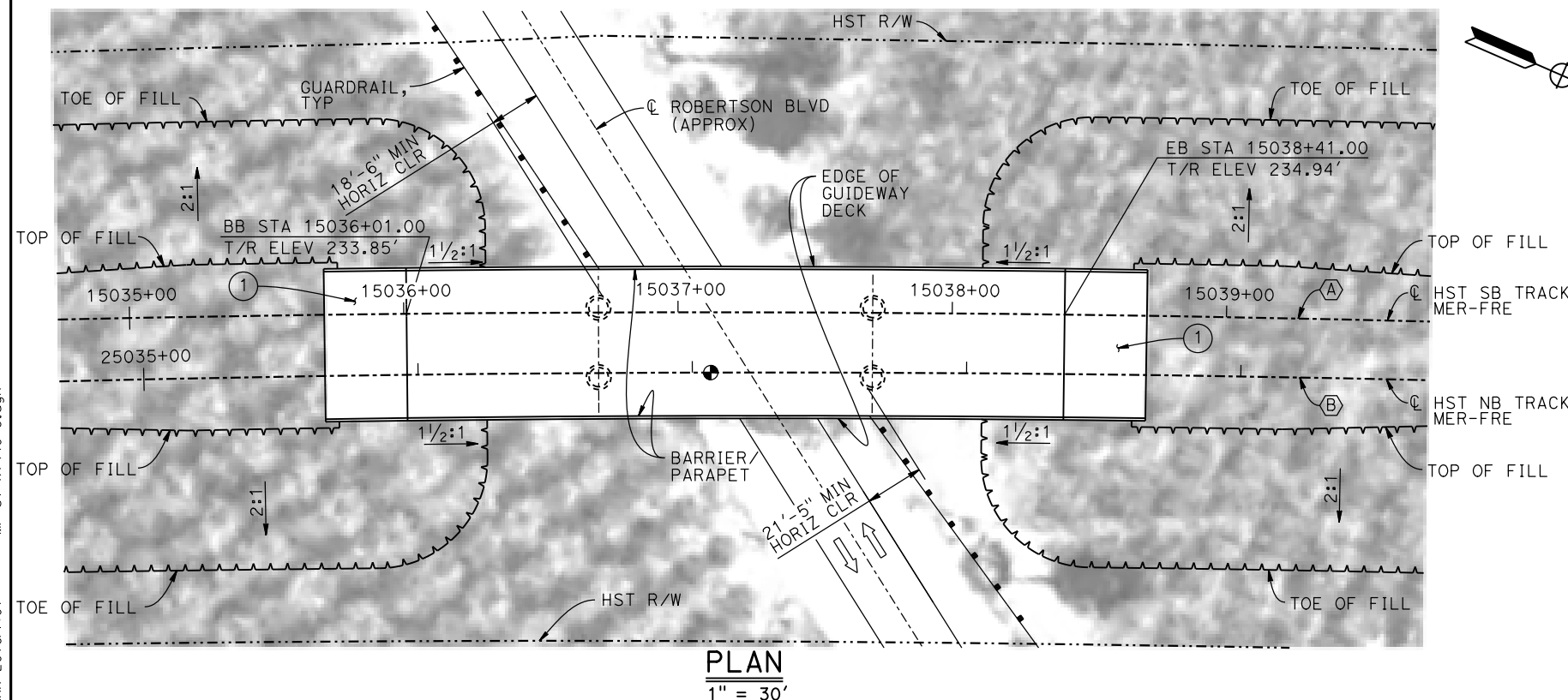
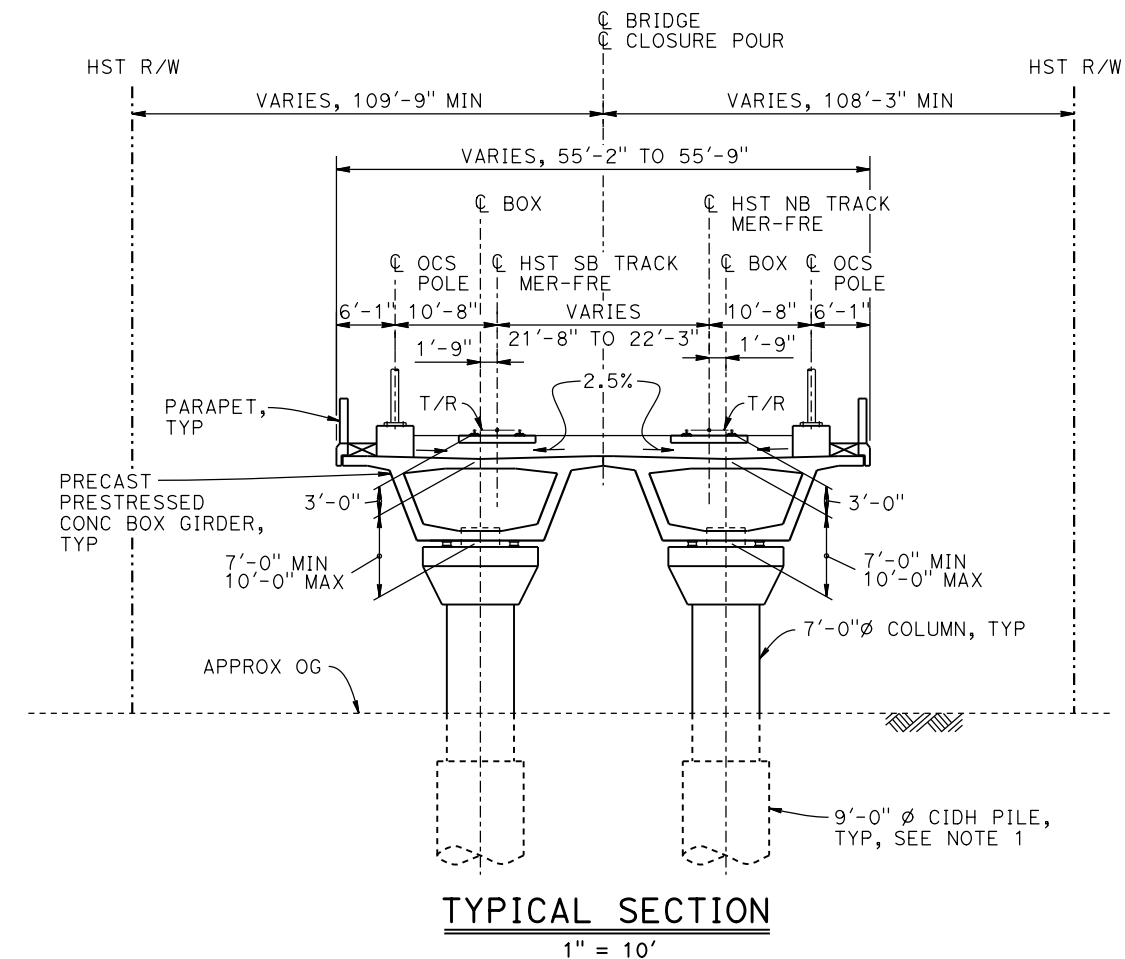
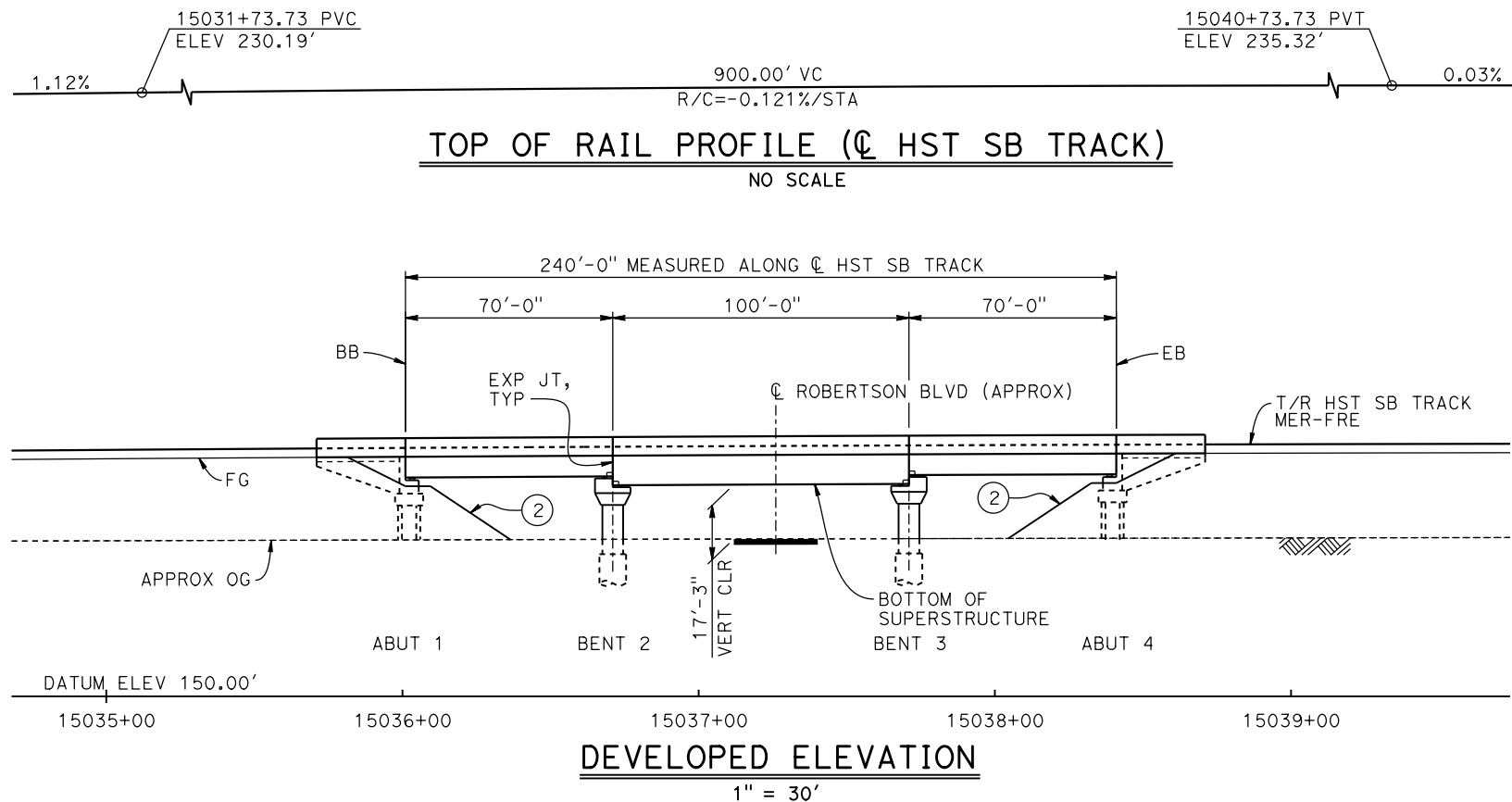
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

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

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ROAD 14 UNDERPASS (HST NB)

CONTRACT NO.	HSR08-05
DRAWING NO.	ST-K1430-C
SCALE	AS SHOWN
SHEET NO.	



CURVE MER-FRE 1 SB (A)

R = 10,375.00'
LS = 1,500.00'

CURVE MER-FRE 1 NB (B)

R = 10,300.00'
LS = 1,500.00'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

NOTES:

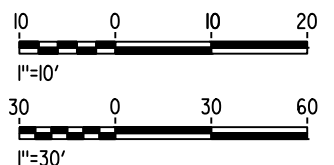
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1440-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1440-C.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0056-C AND TT-B0057-C.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ROBERTSON BLVD	15037+14	32'x16.5'	2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



MF-ST-K1440-C.dgn

17-MAR-2016 1:01

0005133A

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

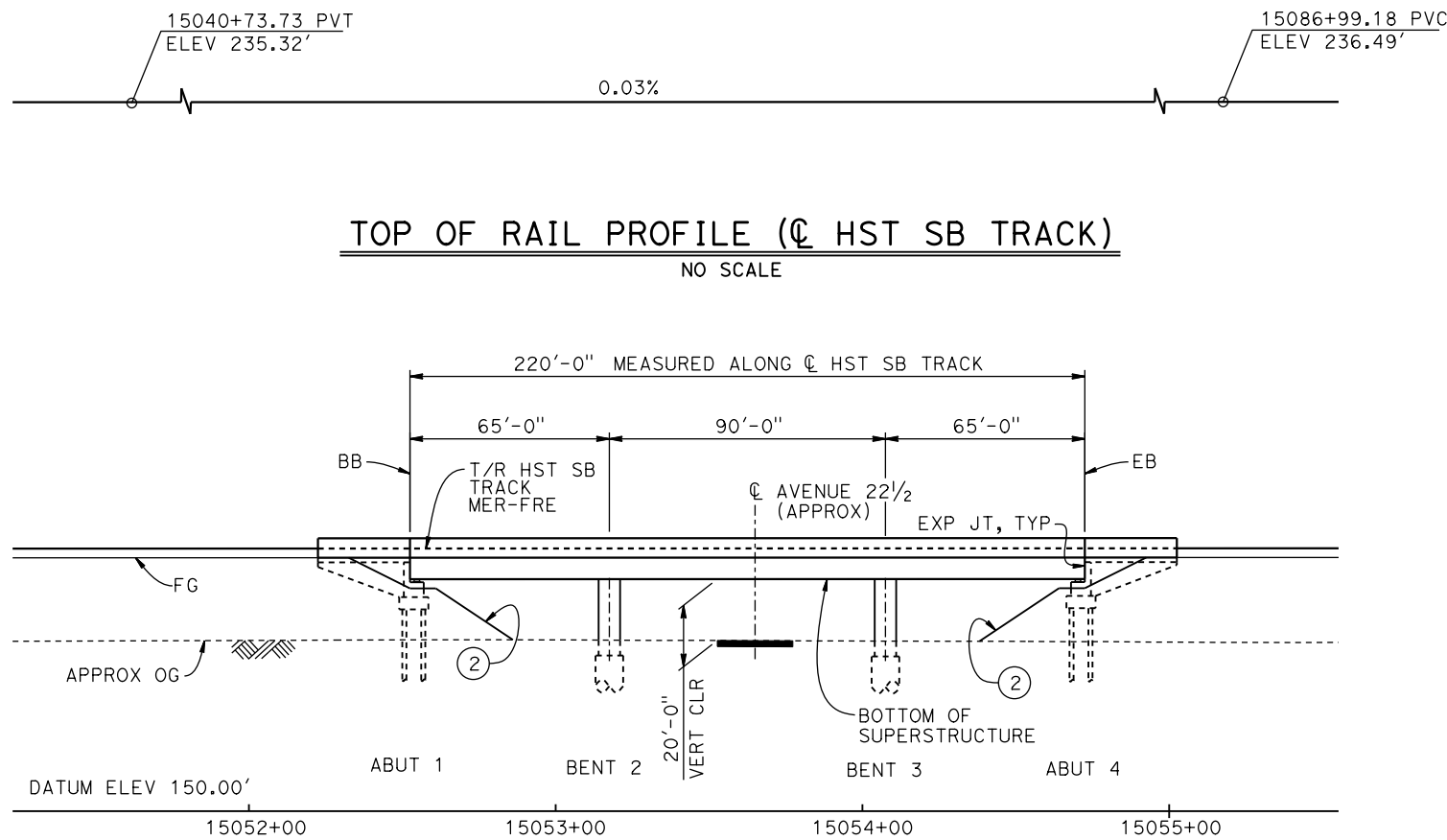
**NOT FOR
CONSTRUCTION**



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

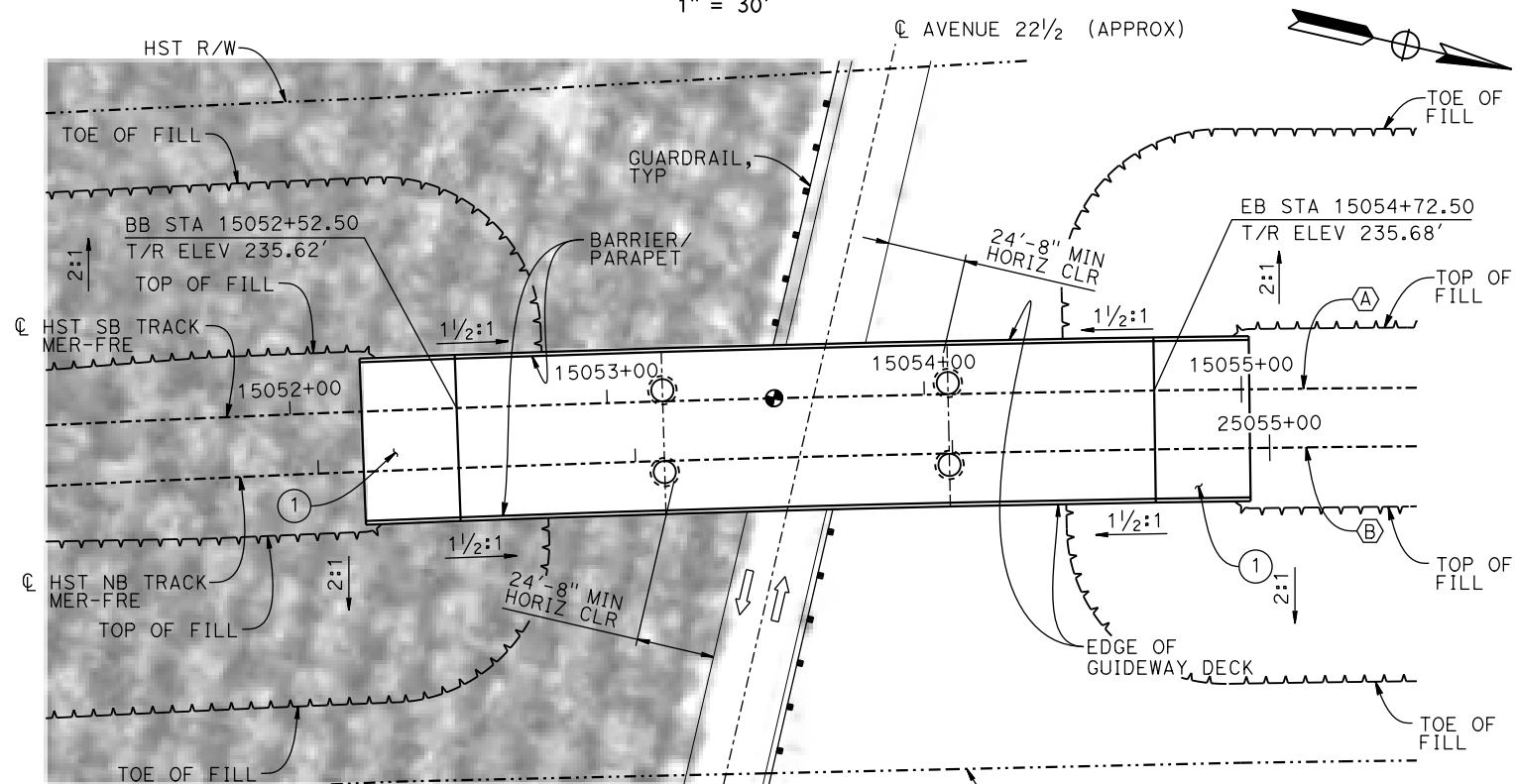
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ROBERTSON BOULEVARD UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1440-C
SCALE AS SHOWN
SHEET NO.



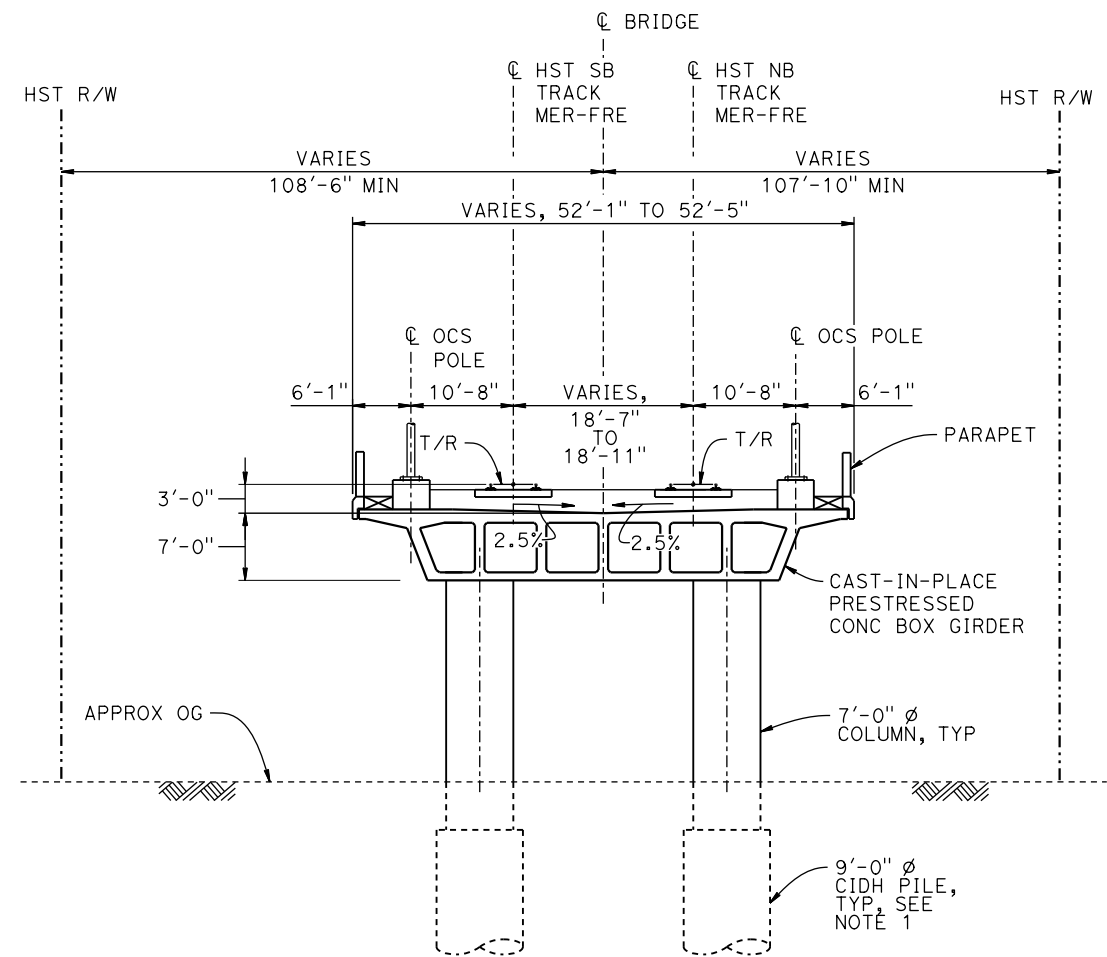
DEVELOPED ELEVATION

1" = 30'



PLAN

1" = 30'



TYPICAL SECTION

1" = 10'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

CURVE MER-FRE 1 SB (A)

R = 10,375.00'
LS = 1,500.00'

CURVE MER-FRE 1 NB (B)

R = 10,300.00'
LS = 1,500.00'

NOTES:

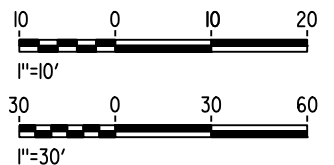
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND AND GRADE SEPARATION PLANS; DRAWING CV-S1440-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1440-C.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0056-C AND TT-B0057-C.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
AVENUE 22 1/2	15053+65	32'x16.5'	2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



MF-ST-K1445-C.dgn

16-MAR-2016 09:48

p0042226

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

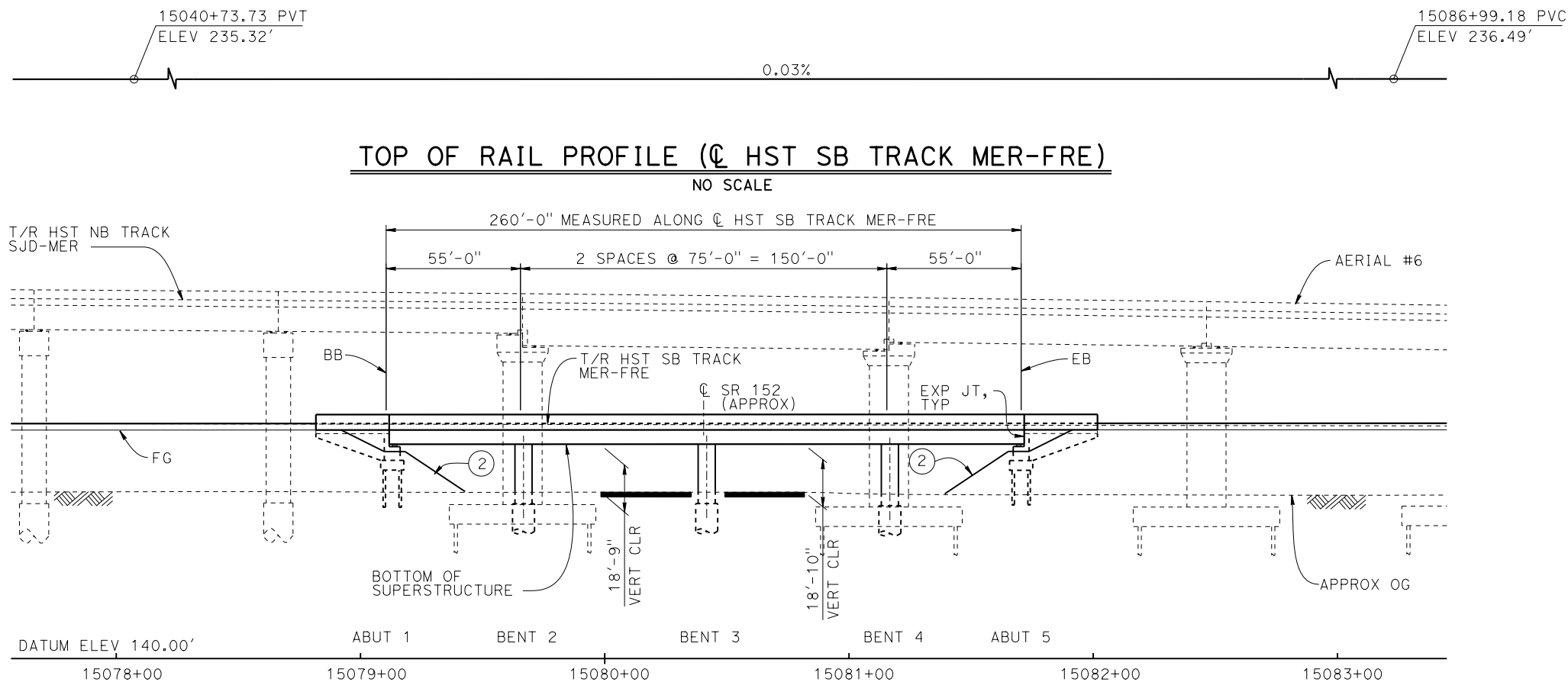


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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

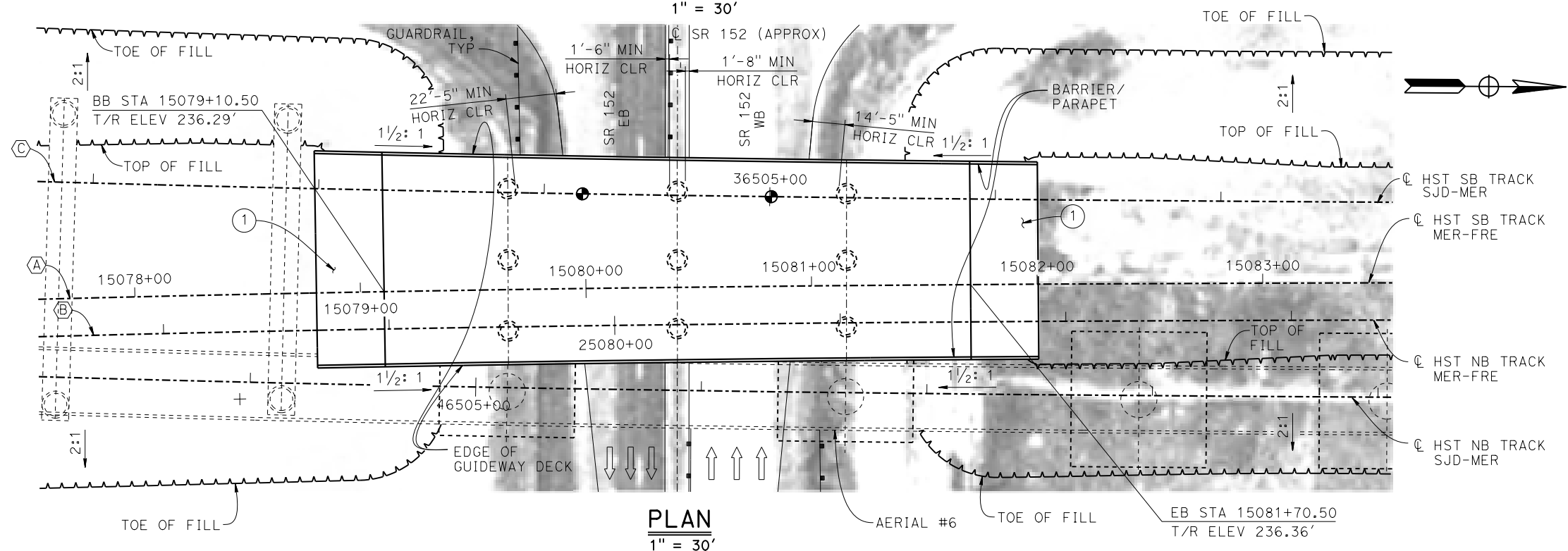
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AVENUE 22 1/2 UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1445-C
SCALE AS SHOWN
SHEET NO.



DEVELOPED ELEVATION

1" = 30'



TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
SR 152	15080+23	52'x15.5'	E BND
SR 152	15080+69	52'x15.5'	W BND
3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR TYPICAL SECTION, SEE DRAWING ST-K3450-C.
3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-C.
4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-C.
5. FOR AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1640-C TO ST-K1643-C, ST-K3640-C AND ST-K3641-C.

CURVE MER-FRE 1 SB (A)

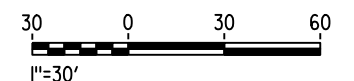
R = 10,375.00'
LS = 1,500.00'

CURVE MER-FRE 1 NB (B)

R = 10,300.00'
LS = 1,500.00'

CURVE SJD-MER 1 SB (C)

R = 10,300.00'
LS = 1,500.00'



MF-ST-K1450-C.dgn

05-FEB-2015 7:33

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

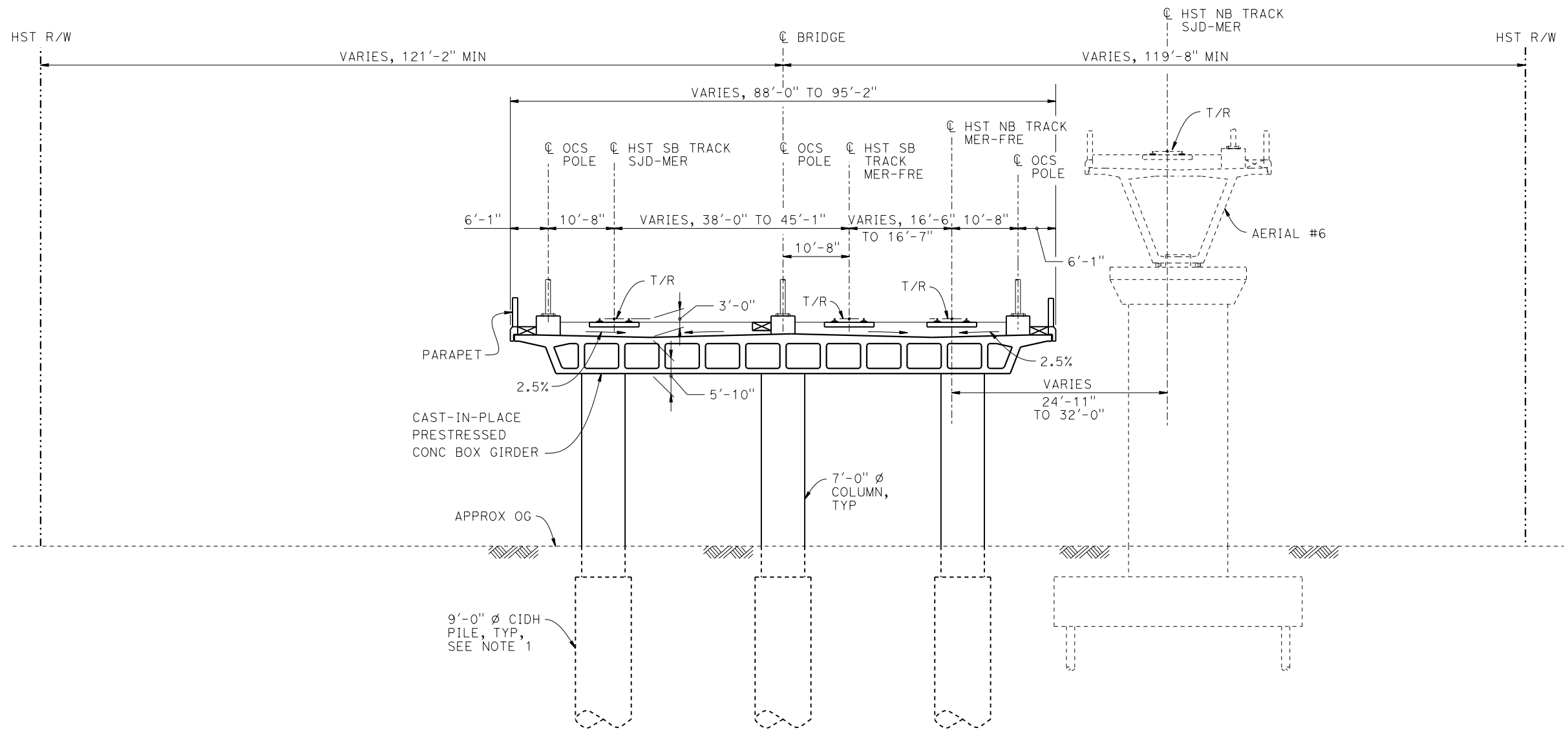
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
SR 152 UNDERPASS - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1450-C
SCALE AS SHOWN
SHEET NO.



TYPICAL SECTION
1" = 10'

NOTES:

1. DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0056-C AND TT-B0057-C.



p005133g 28-APR-2015 09:43 MF-ST-K3450-C.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

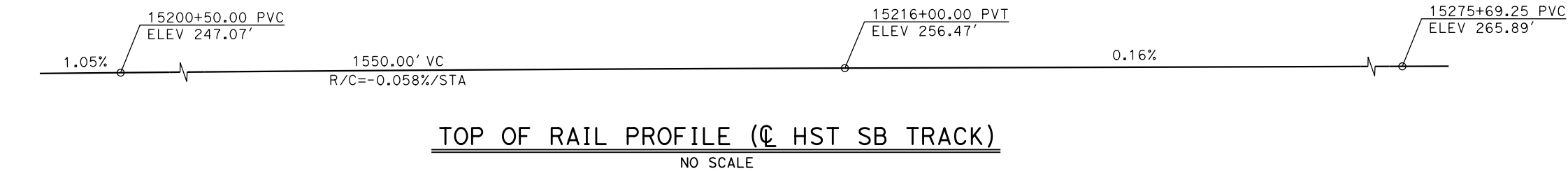
NOT FOR
CONSTRUCTION



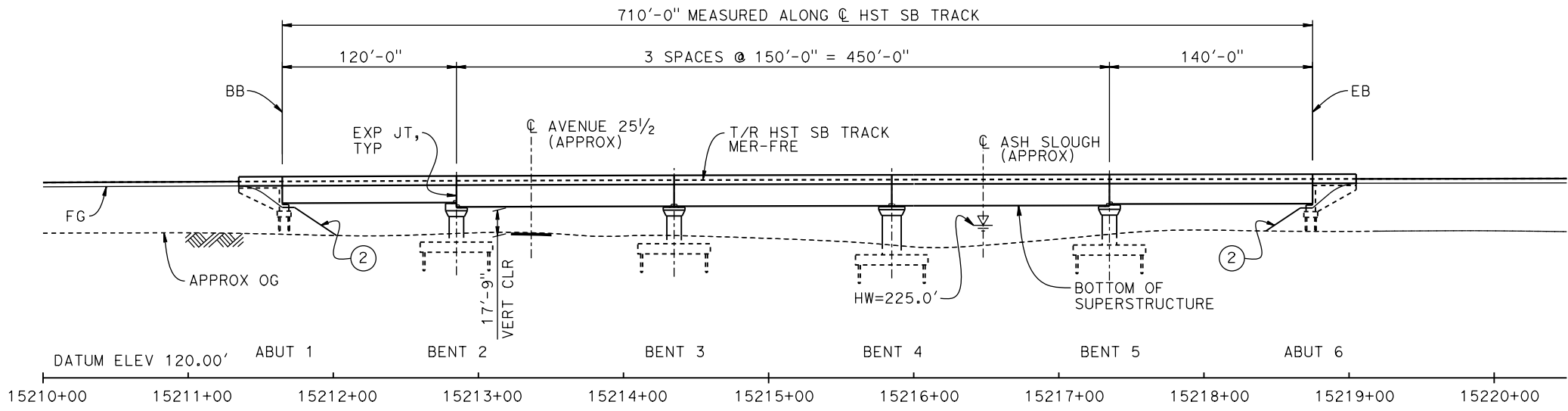
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
SR 152 UNDERPASS - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3450-C
SCALE AS SHOWN
SHEET NO.

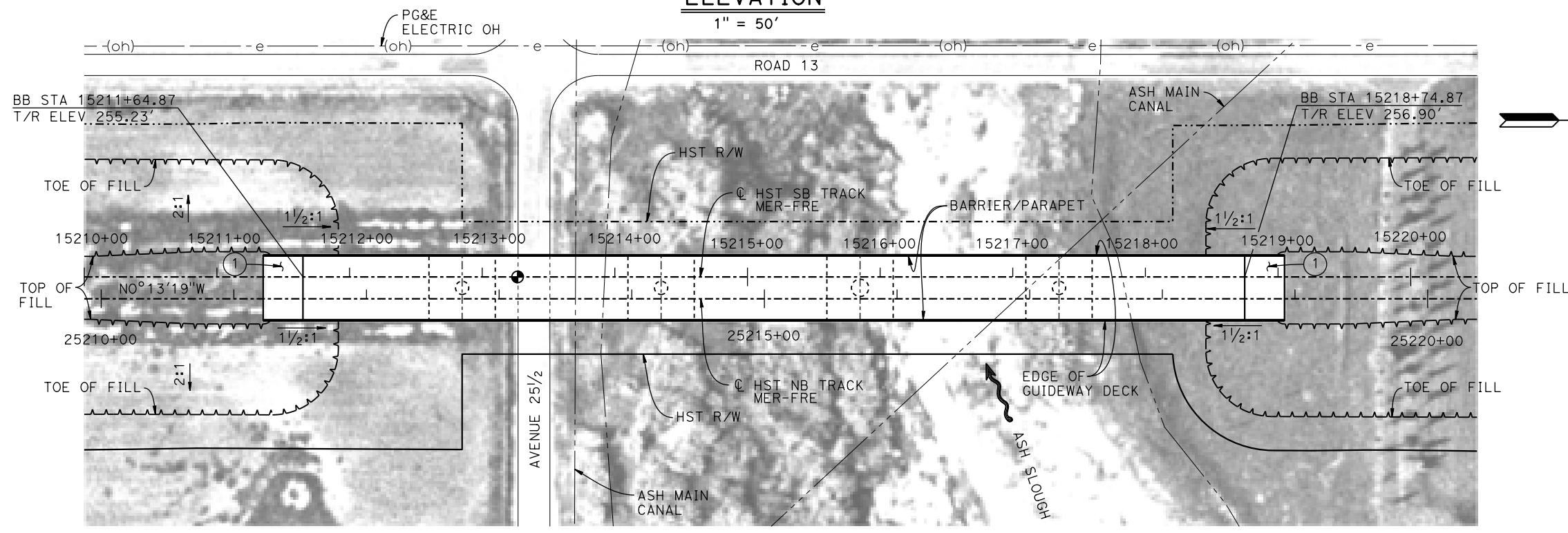
16-MAR-2016 09:21 MF-ST-K1475-C.dgn



- LEGEND:**
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ~> INDICATES DIRECTION OF FLOW
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1½H:1V)



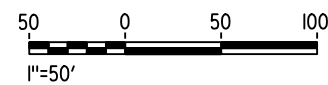
ELEVATION
1" = 50'



PLAN
1" = 50'



- NOTES:**
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
 - FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3475-C.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1470-C.



TEMPORARY TRAFFIC OPENINGS			
VEHICULAR TRAFFIC			
1. _ TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
AVENUE 25½	15213+39	32'X16.5'	2-WAY
3. _ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

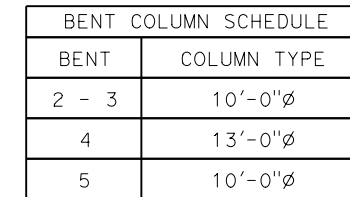
NOT FOR
CONSTRUCTION





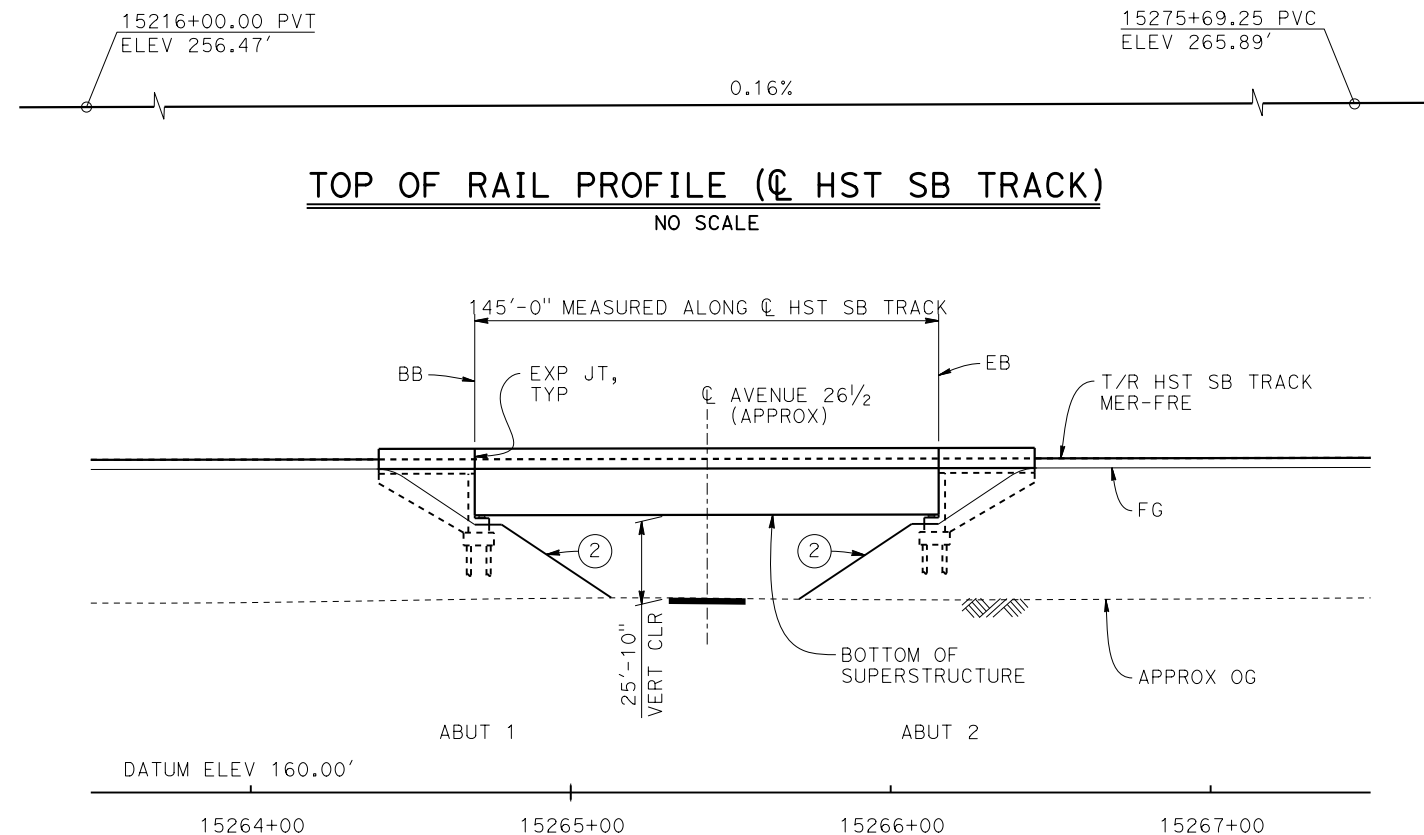
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ASH SLOUGH BRIDGE - 1 OF 2

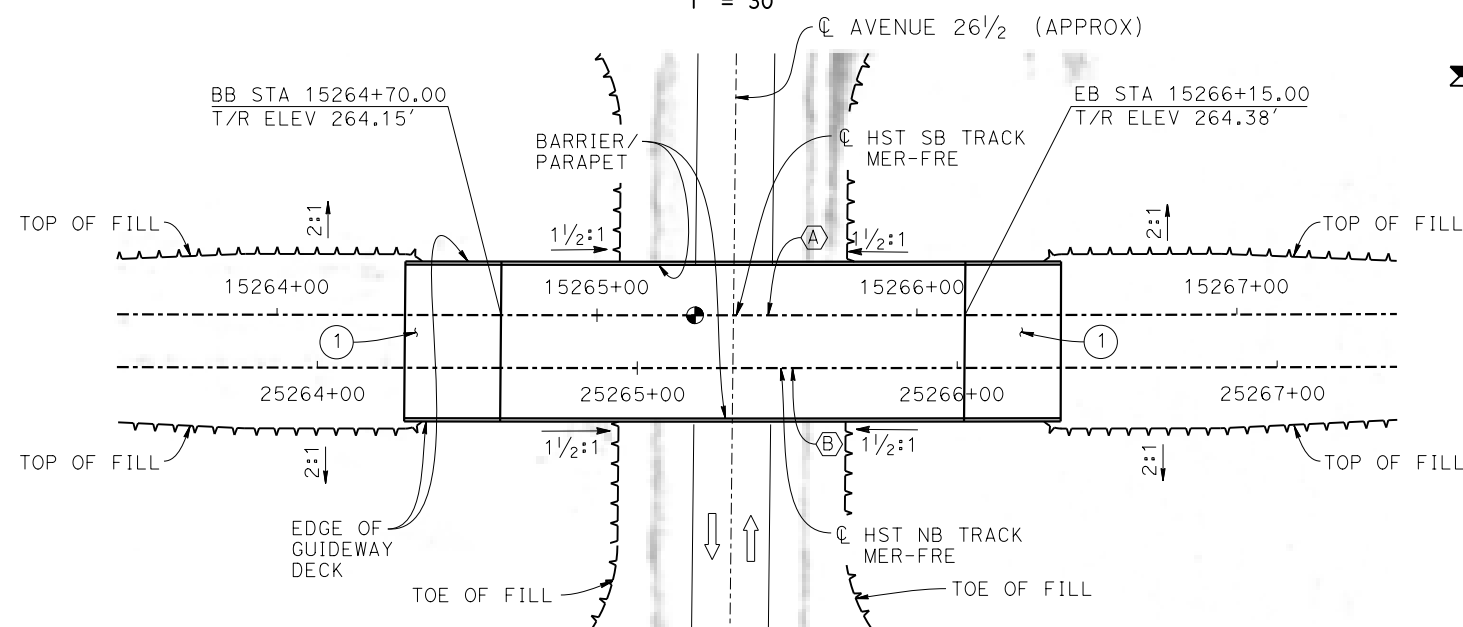
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1475-C
SCALE AS SHOWN
SHEET NO.



						DESIGNED BY S. J. S.	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE AVENUE 21 TO ROAD 13 WYE ALTERNATIVE TYPICAL SECTION (MER-FRE) ASH SLOUGH BRIDGE - 2 OF 2	CONTRACT NO. HSR08-05
						DRAWN BY A. M.					DRAWING NO. ST-K3475-C
						CHECKED BY O. EDEWOR					SCALE AS SHOWN
						IN CHARGE C. LEMLEY					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 02/13/2015					



DEVELOPED ELEVATION
1" = 30'



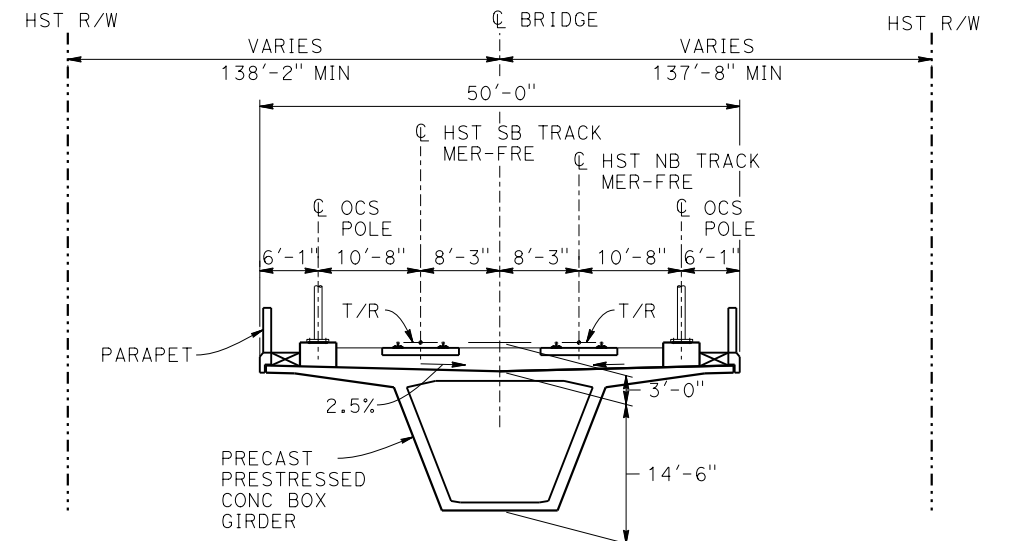
PLAN
1" = 30'

CURVE MER-FRE 2 SB (A)

R = 30,000.00'
LS = 2,250.00'

CURVE MER-FRE 2 SB (B)

R = 30,016.50'
LS = 2,250.00'



TYPICAL SECTION
1" = 10'

LEGEND:

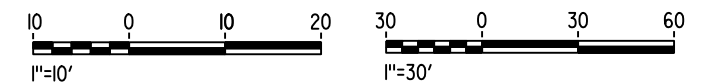
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- STRUCTURE APPROACH
- SLOPE PAVING (1 1/2 H:1 V)

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
AVENUE 26 1/2	15265+43	32'X16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

- 16" ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1480-C.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0056-C AND TT-B0057-C.



MF-ST-K1480-C.dgn

07-MAY-2015 5:35

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

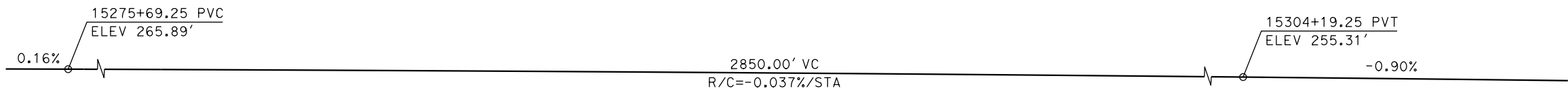
**NOT FOR
CONSTRUCTION**



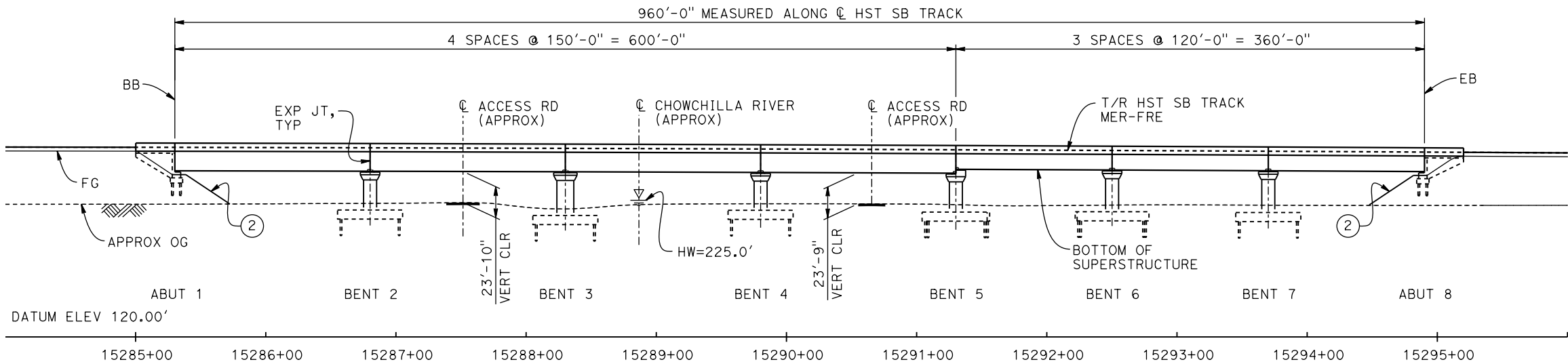
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AVENUE 26 1/2 UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1480-C
SCALE AS SHOWN
SHEET NO.



TOP OF RAIL PROFILE (C HST SB TRACK)
NO SCALE



DEVELOPED ELEVATION
1" = 50'

LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- ~ INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

CURVE MER-FRE 2 SB (A) CURVE MER-FRE 2 NB (B)

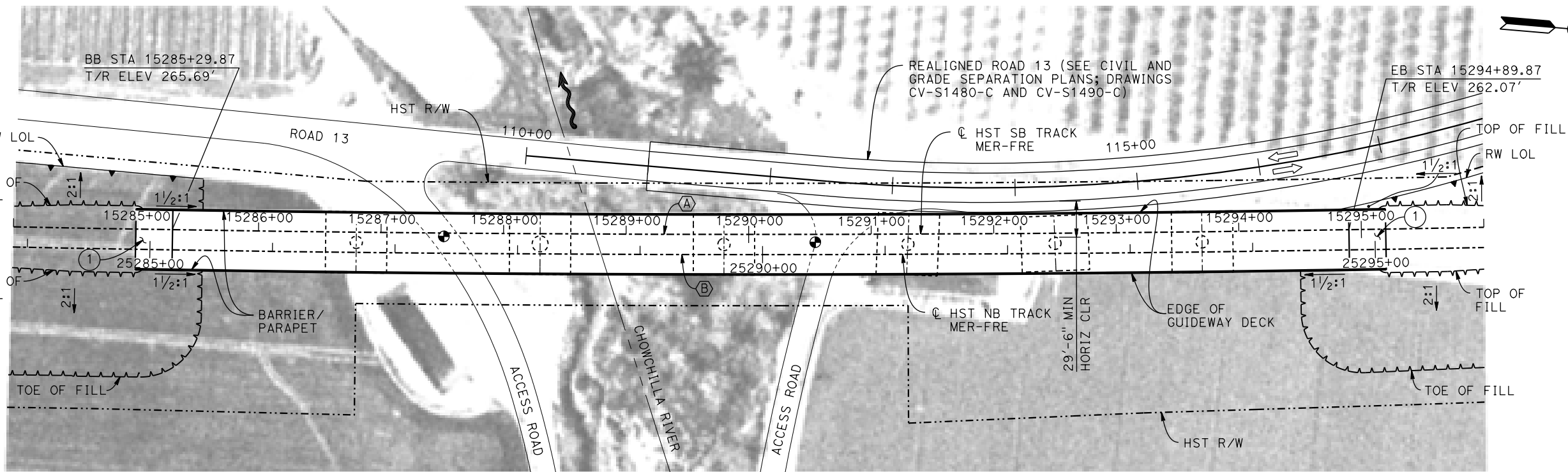
R = 30,000.00' R = 30,016.50'
LS = 2,250.00' LS = 2,250.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ACCESS ROAD	15287+38	20'X16.5'	-
ACCESS ROAD	15290+66	20'X16.5'	-
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



PLAN
1" = 50'

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3490-C.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1480-C AND CV-S1490-C.
5. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1480-C AND CV-S1490-C.



16-MAR-2016 09:22 MF-ST-K1490-C.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

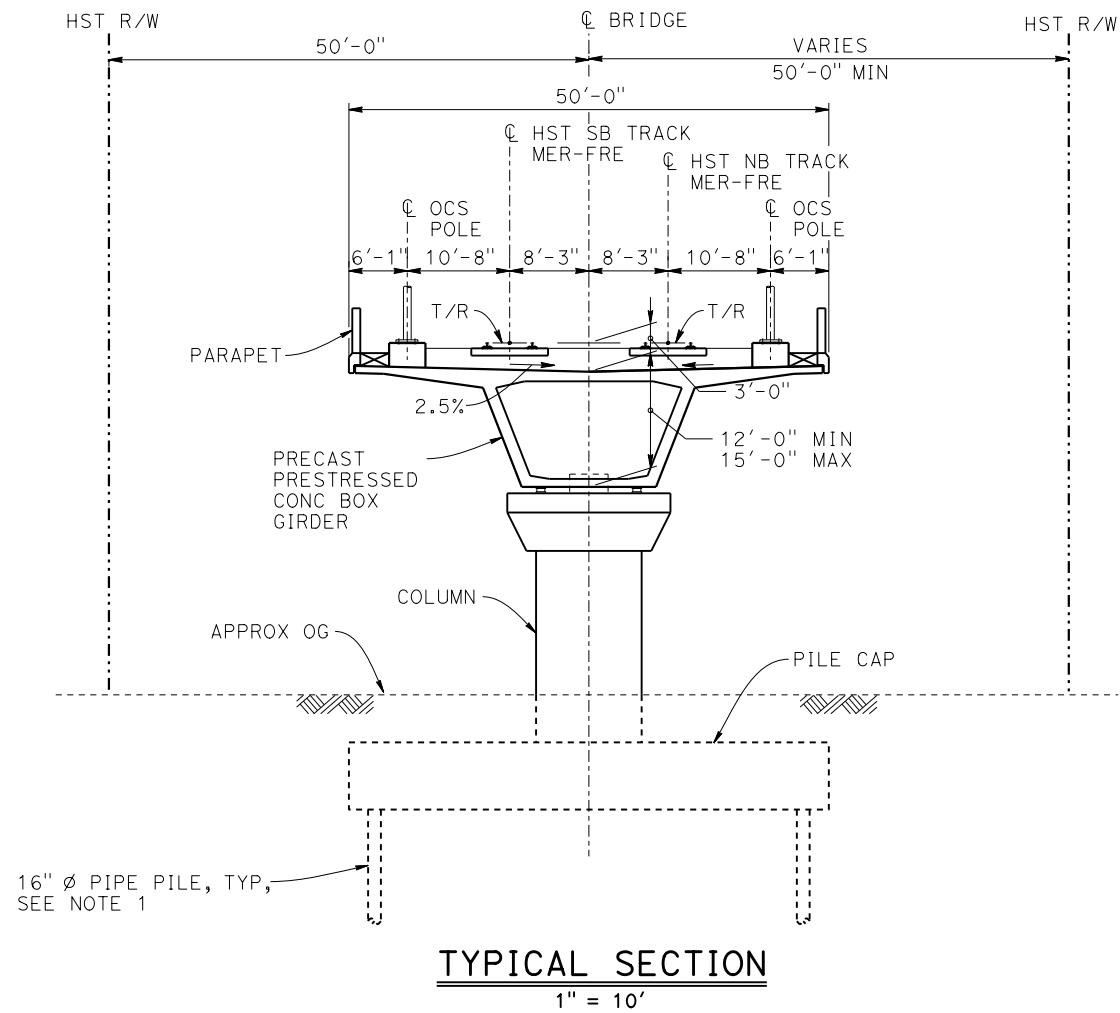


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CHOWCHILLA RIVER BRIDGE - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1490-C
SCALE AS SHOWN
SHEET NO.

p005133g 05-FEB-2015 11:47 MF-ST-K3490-C.dgn

BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2	10'-0"Ø
3	13'-0"Ø
4 - 7	10'-0"Ø



- NOTES:**
1. PILE LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0056-C AND TT-B0057-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



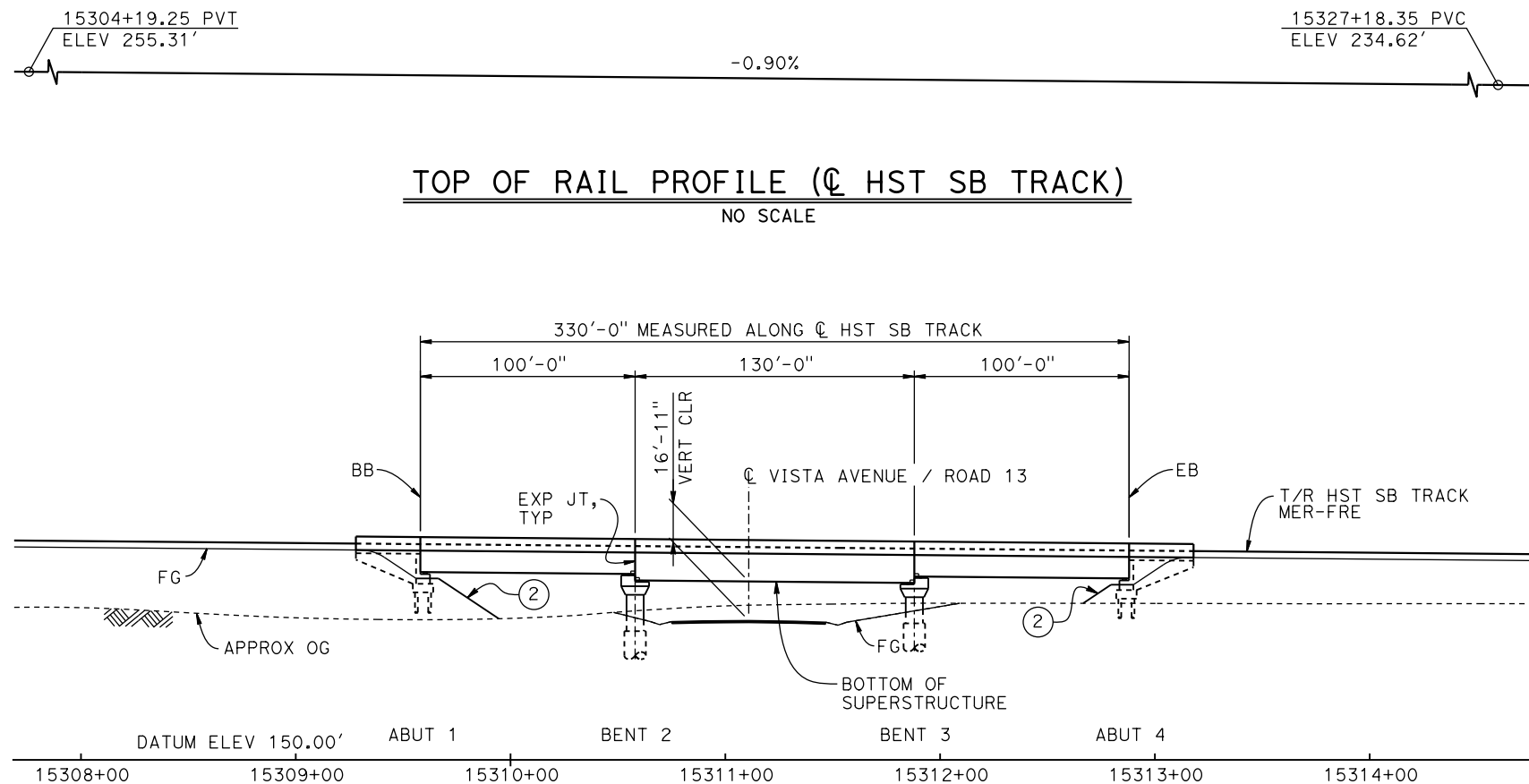
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
CHOWCHILLA RIVER BRIDGE - 2 OF 2

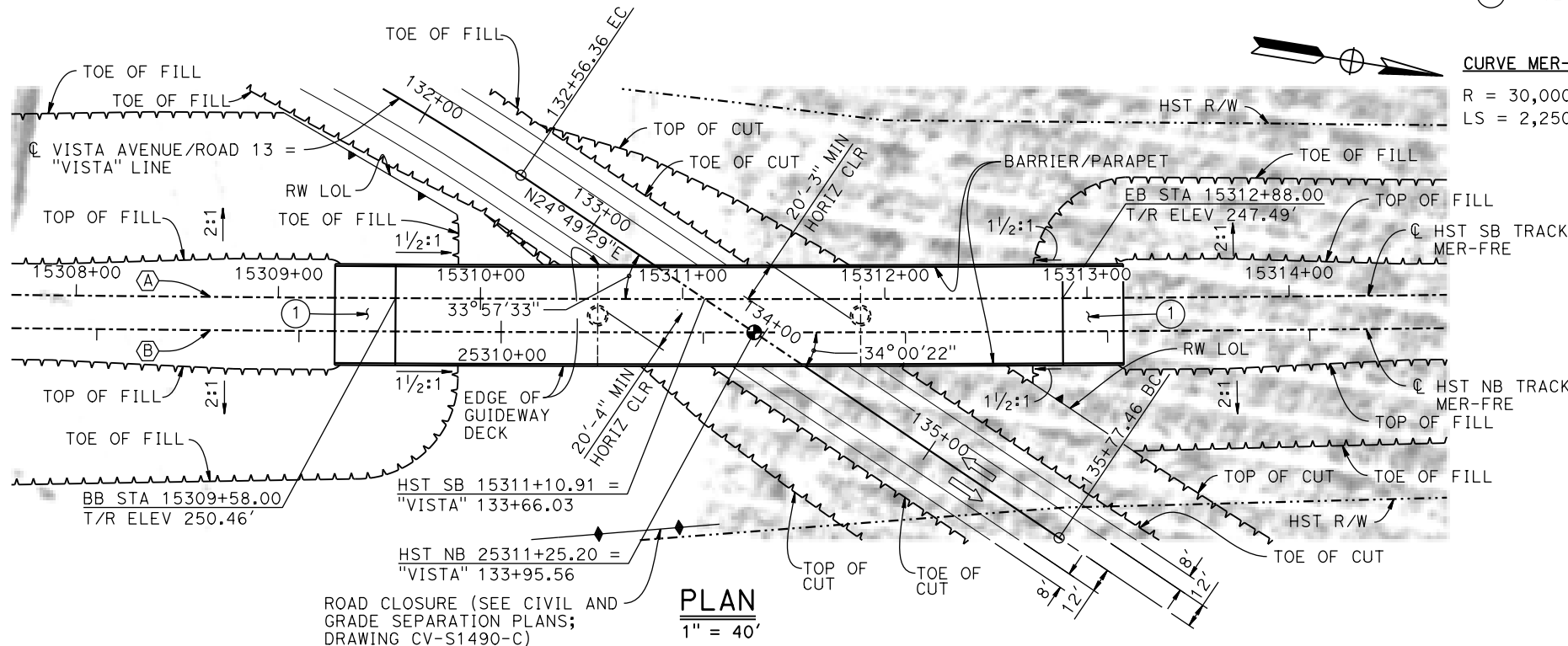
CONTRACT NO. HSR08-05
DRAWING NO. ST-K3490-C
SCALE AS SHOWN
SHEET NO.

16-MAR-2016 09:22 MF-ST-K1495-C.dgn

p0042226



DEVELOPED ELEVATION
1" = 40'



LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

CURVE MER-FRE 2 SB (A) CURVE MER-FRE 2 NB (B)

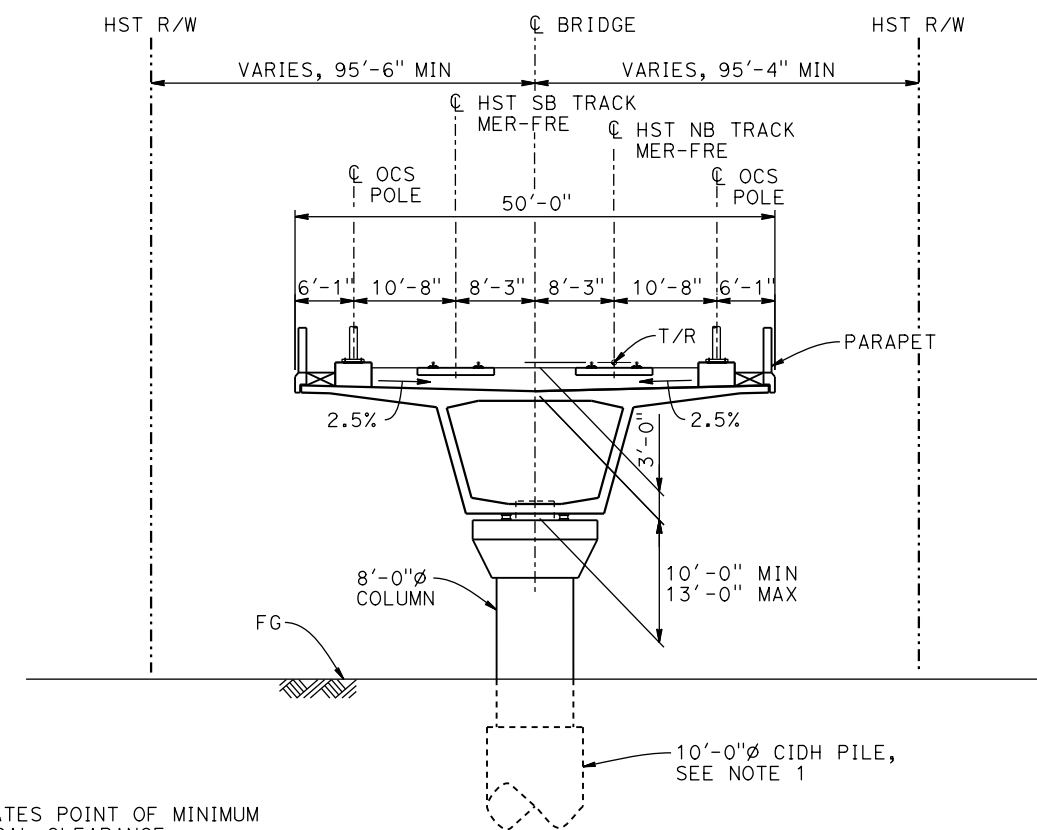
R = 30,000.00' LS = 2,250.00' R = 30,016.50' LS = 2,250.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

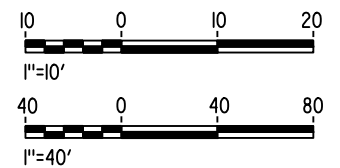
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
VISTA AVENUE/ROAD 13	15311+11	32'X16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



TYPICAL SECTION
1" = 10'

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1490-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1490-C.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLAN DRAWINGS TT-B0056-C AND TT-B0057-C.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1490-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY R. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

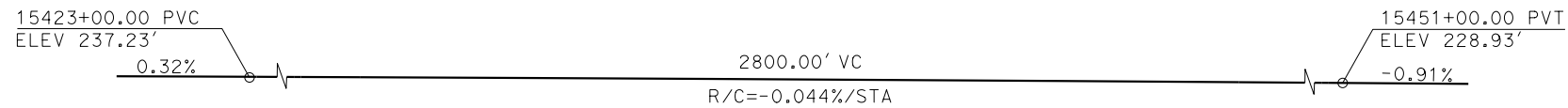
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
VISTA AVENUE (ROAD 13) UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1495-C
SCALE AS SHOWN
SHEET NO.



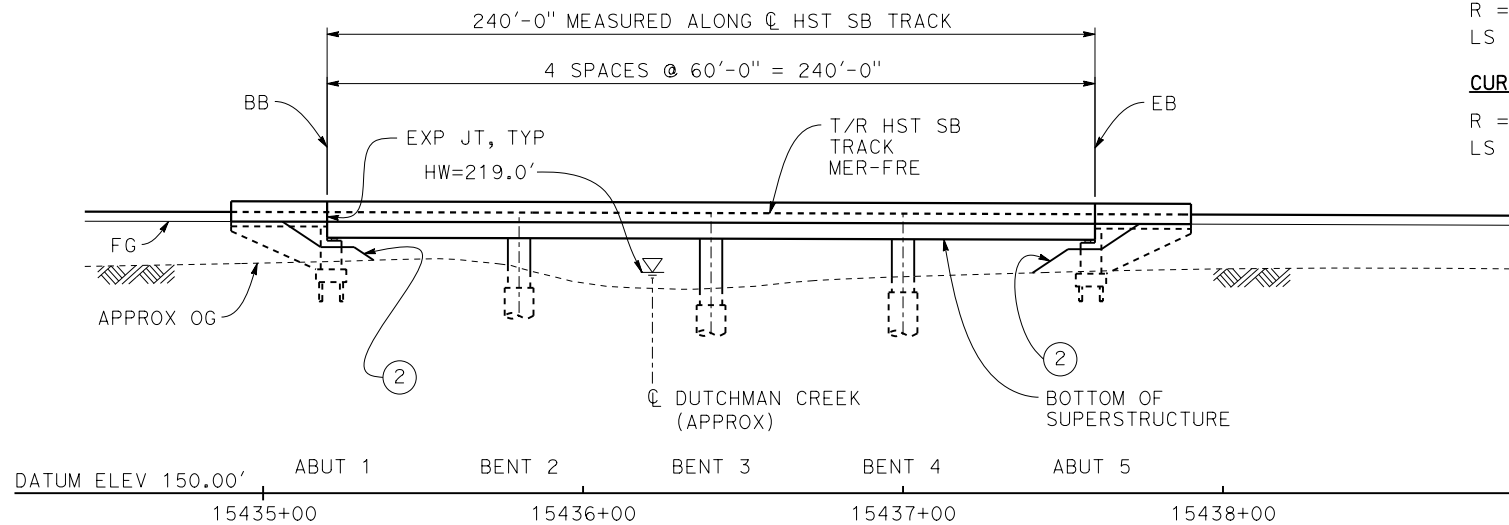
TOP OF RAIL PROFILE (CL HST SB TRACK)
NO SCALE

CURVE MER-FRE 2 SB (A)

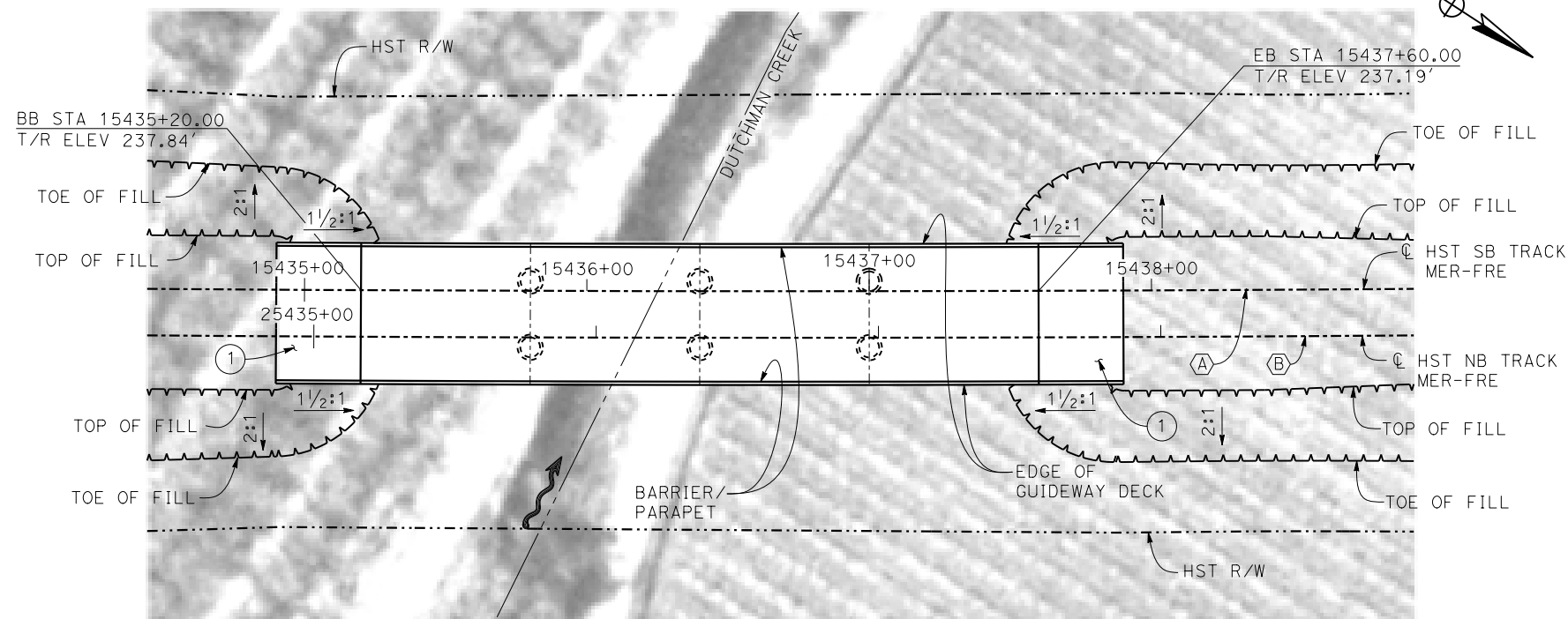
R = 30,000.00'
LS = 2,250.00'

CURVE MER-FRE 2 NB (B)

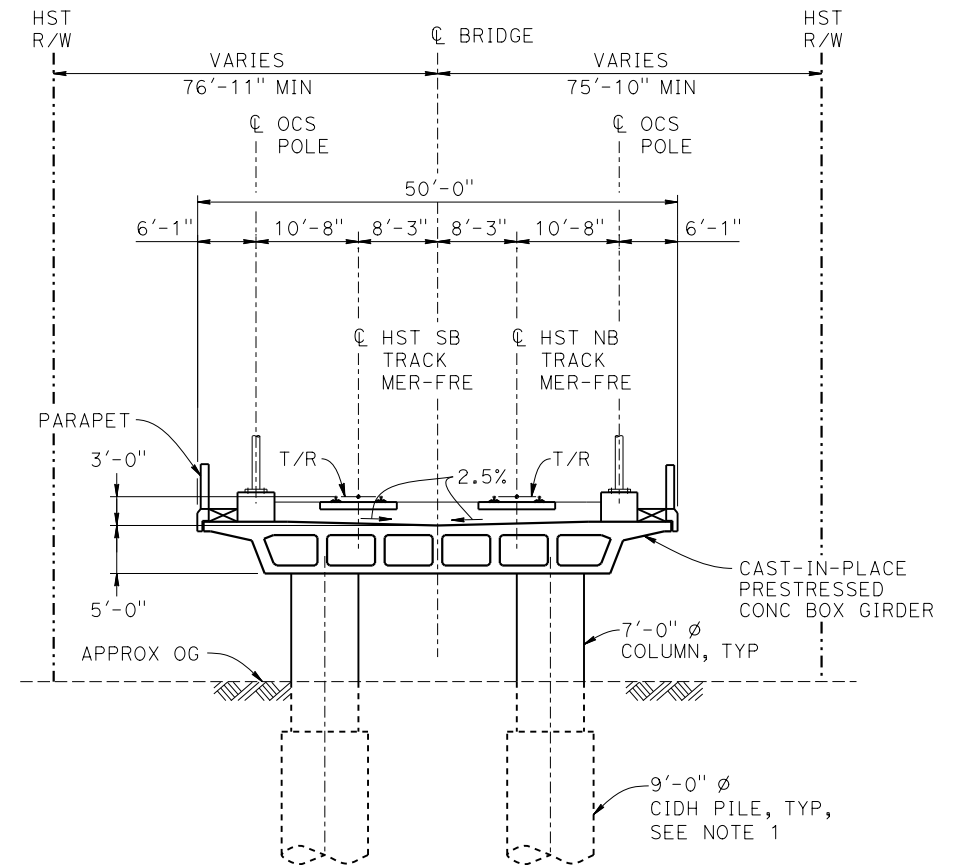
R = 30,016.50
LS = 2,250.00'



DEVELOPED ELEVATION
1" = 30'



PLAN
1" = 30'



TYPICAL SECTION
1" = 10'

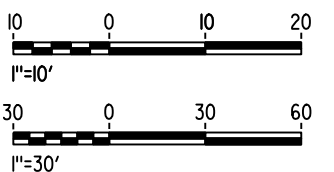
LEGEND:

INDICATES DIRECTION OF FLOW

- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1510-C.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0056-C AND TT-B0057-C.



MF-ST-K1510-C.dgn

04-FEB-2015 11:19

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY W. JOHNSEN
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

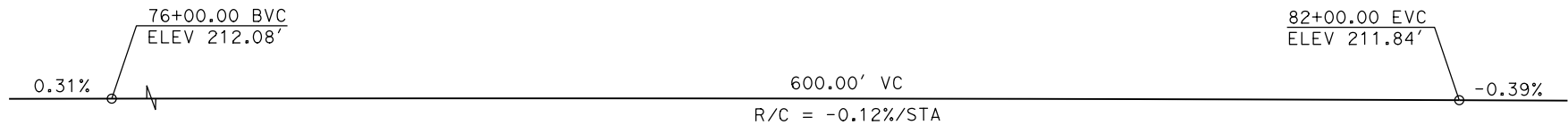
NOT FOR
CONSTRUCTION



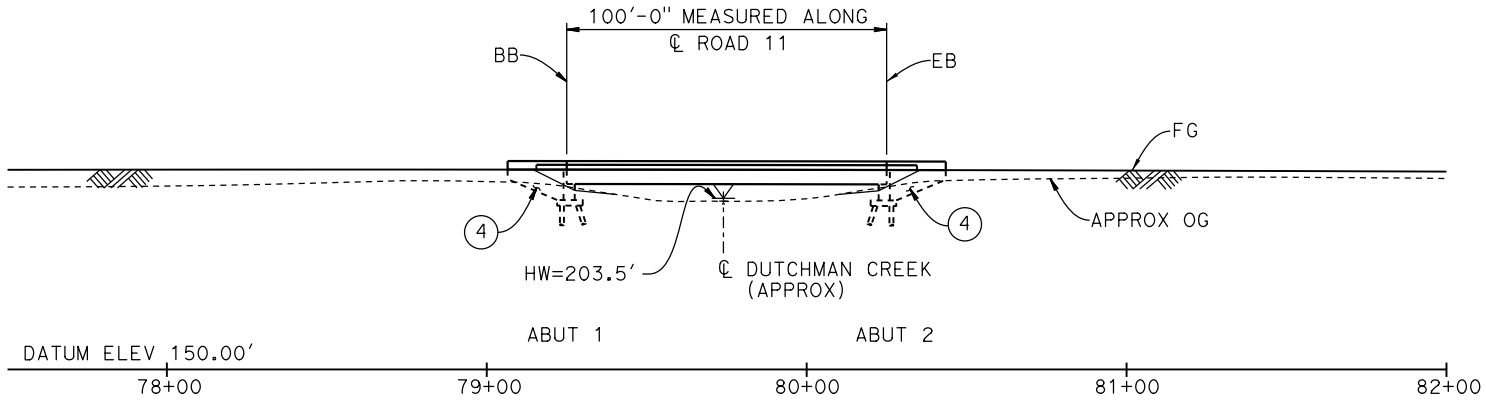
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
DUTCHMAN CREEK BRIDGE

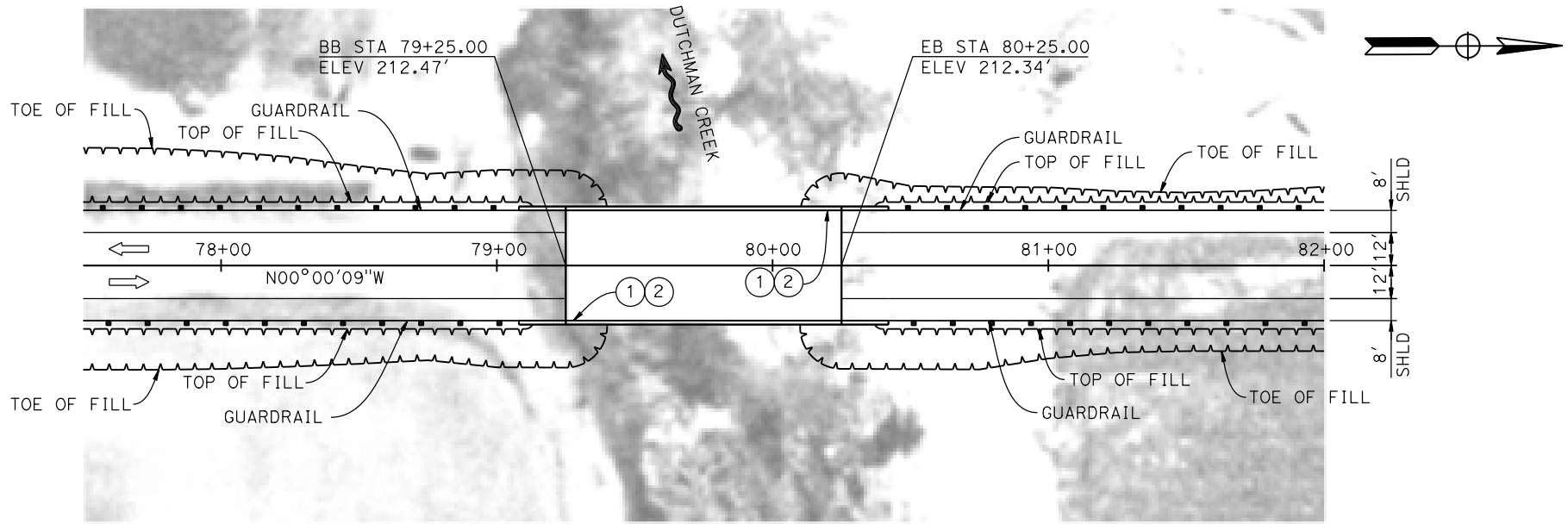
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1510-C
SCALE AS SHOWN
SHEET NO.



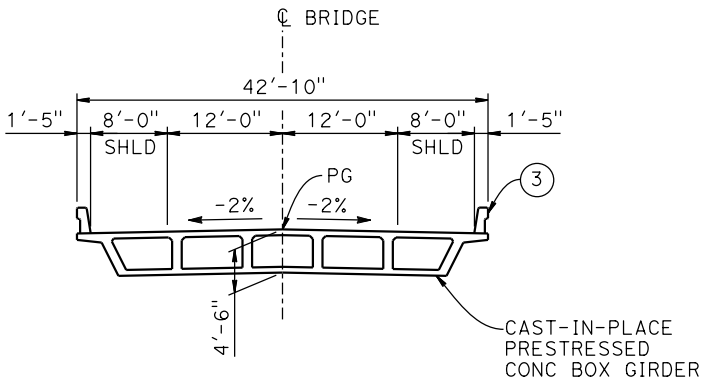
PROFILE GRADE
NO SCALE



ELEVATION
1" = 30'



PLAN
1" = 30'



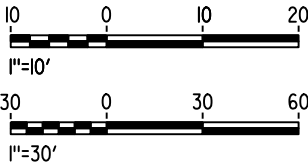
TYPICAL SECTION
1" = 10'

LEGEND:

- INDICATES DIRECTION OF FLOW
- INDICATES DIRECTION OF TRAFFIC
- ① PAINT "ROAD 11 BRIDGE"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 732
- ④ WINGWALL

NOTES:

1. ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1512-C.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1512-C.



10-MAR-2016 17:35 MF-ST-K1515-C.dgn

0005133A

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. J. S.
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ROAD 11 BRIDGE

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1515-C
SCALE AS SHOWN
SHEET NO.

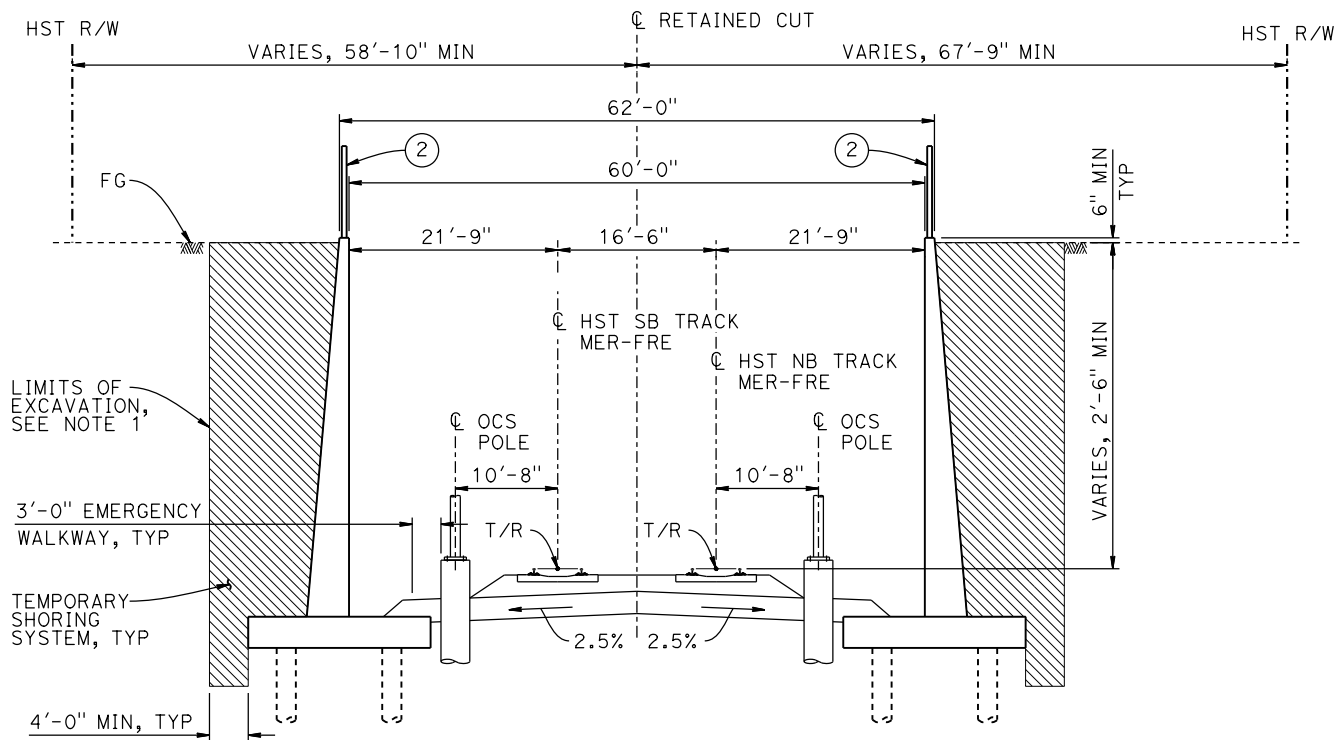
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-T1520-C

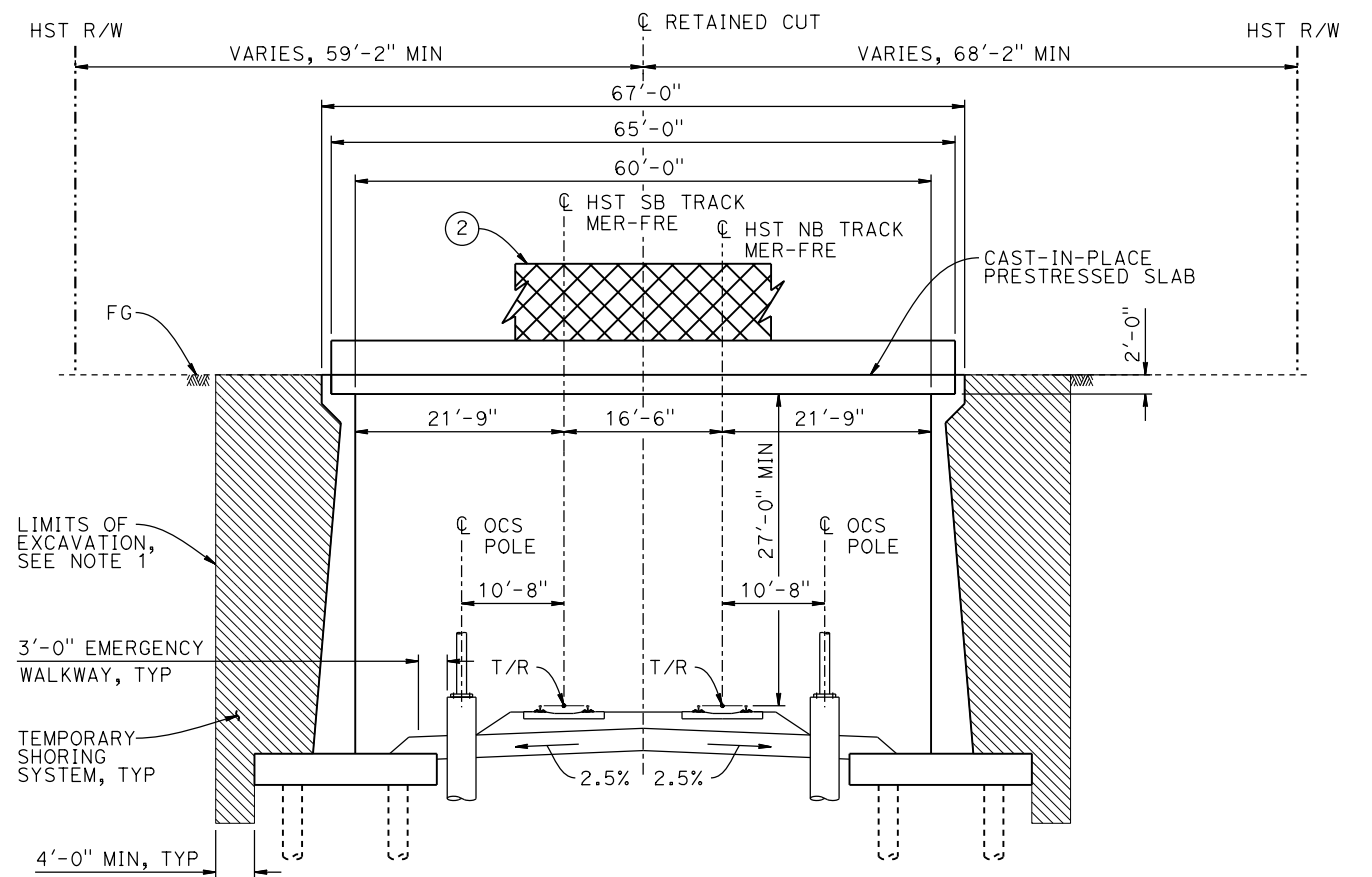
SCALE
AS SHOWN

SHEET NO.

18-MAY-2015 9:14 MF-ST-T3520-C.dgn



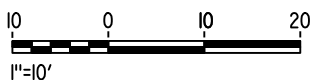
SECTION A-A
1" = 10'



SECTION B-B
1" = 10'

NOTES:

1. LIMITS OF EXCAVATION SHALL NOT EXTEND BEYOND HST R/W.
2. PILE LENGTH AND LAYOUT TO BE DETERMINED ONCE A SITE SPECIFIC ASSESSMENT OF GROUNDWATER CONDITIONS IS AVAILABLE.
3. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0056-C AND TT-B0057-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY O. EDEWOR
DRAWN BY J. KIDWELL
CHECKED BY S.S./K.C.
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

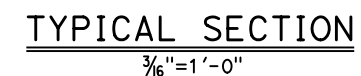
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (MER-FRE)
RETAINED CUT - SANDY MUSH ROAD - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-T3520-C
SCALE AS SHOWN
SHEET NO.

[illegible]

-

P0028989 18-MAY-2015 19:17 MF-ST-K1520-C.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

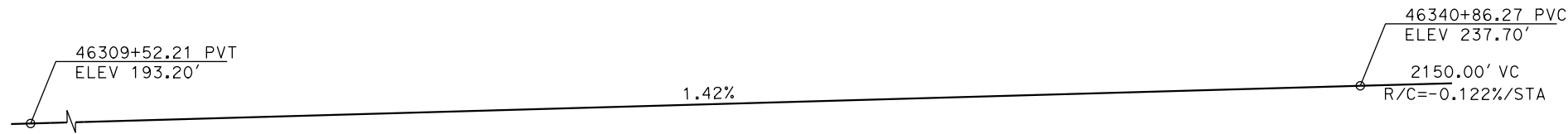
DESIGNED BY	O. EDEWOR
DRAWN BY	J. KIDWELL
CHECKED BY	S.S./K.C.
IN CHARGE	C. LEMLEY
DATE	05/08/2015

**NOT FOR
CONSTRUCTION**



CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
SANDY MUSH ROAD OVERHEAD

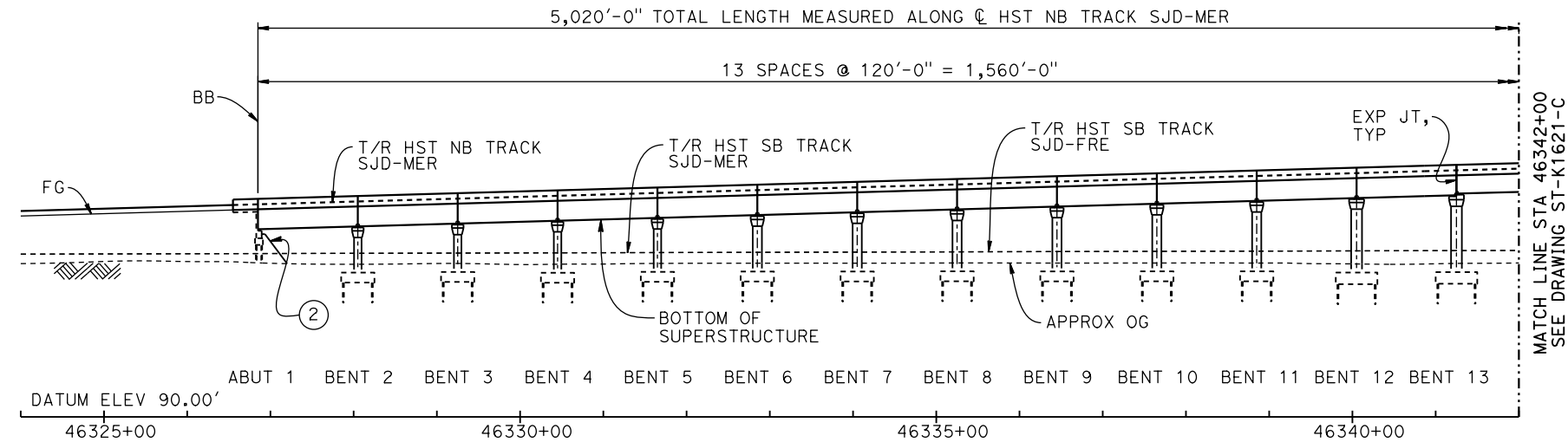
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1520-C
SCALE AS SHOWN
SHEET NO.



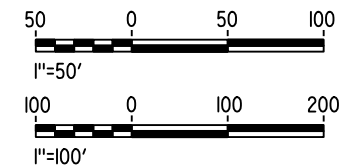
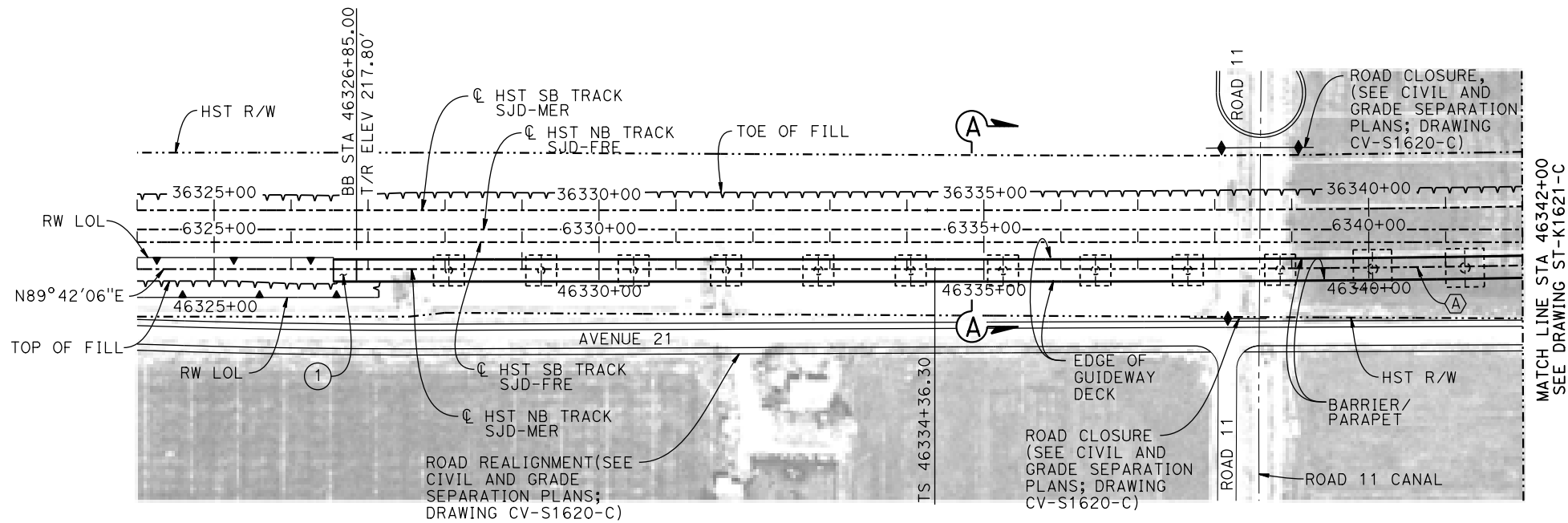
- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1½H:1V)

CURVE SJD-MER 1 NB (A)

R = 10,376.50'
LS = 1,500.00'



DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'



16-MAR-2016 09:23 MF-ST-K1620-C.dgn

00042226

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

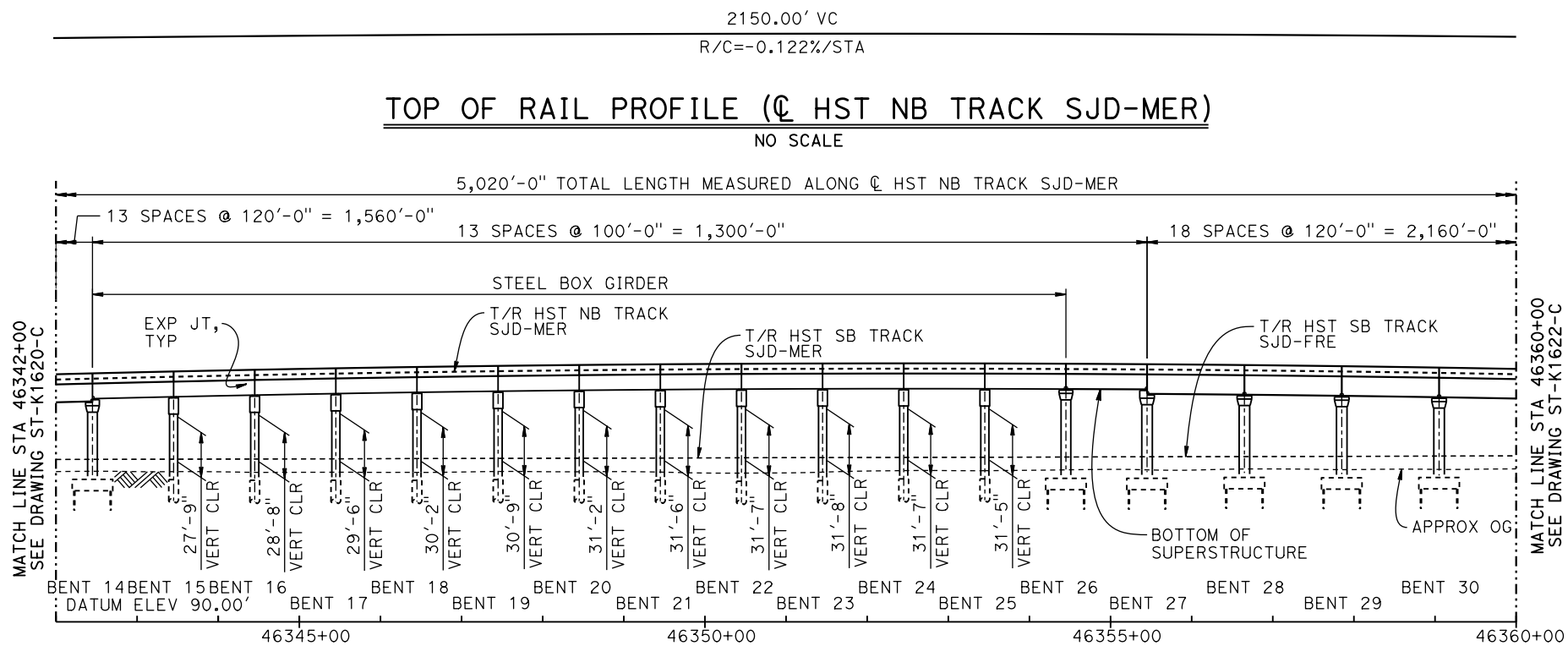
RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE AVENUE 21 TO ROAD 13 WYE ALTERNATIVE GENERAL PLAN (SJD-MER) AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 1 OF 5
--

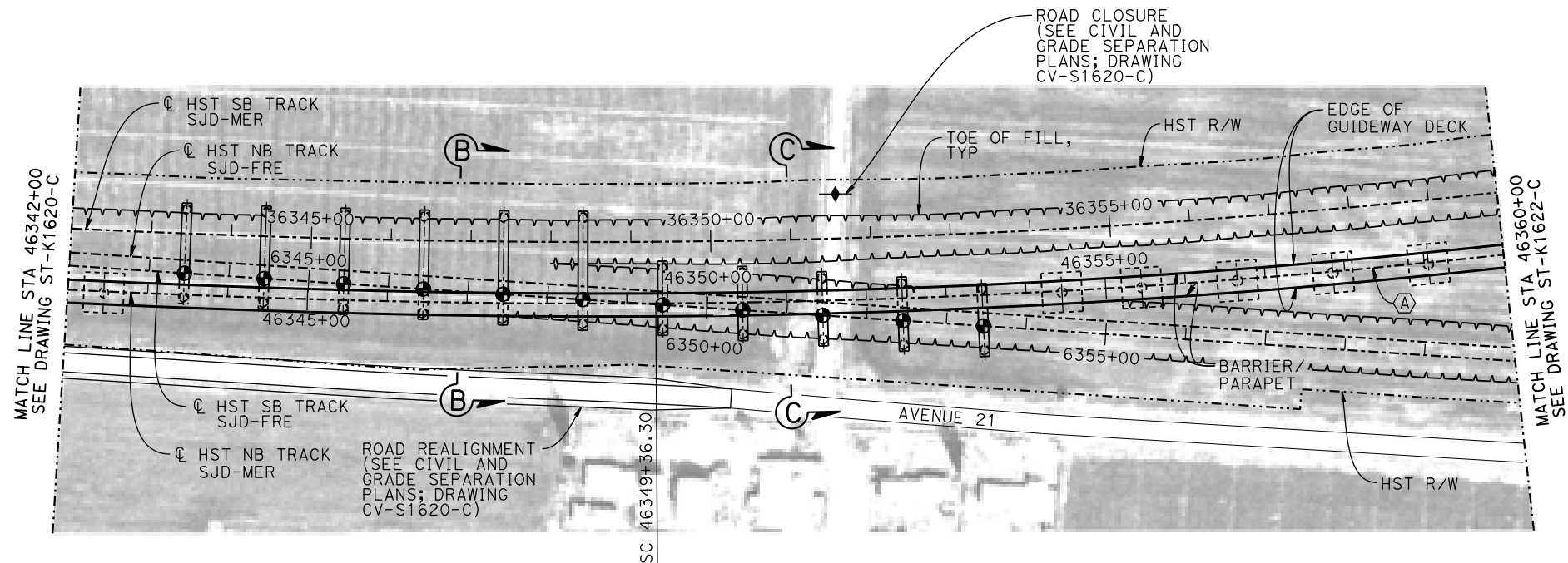
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1620-C
SCALE AS SHOWN
SHEET NO.

p0042226 16-MAR-2016 09:24 MF-ST-K1621-C.dgn



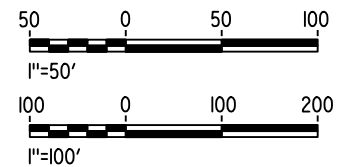
DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'



PLAN

1" = 100'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

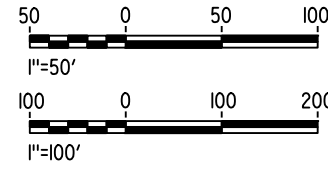
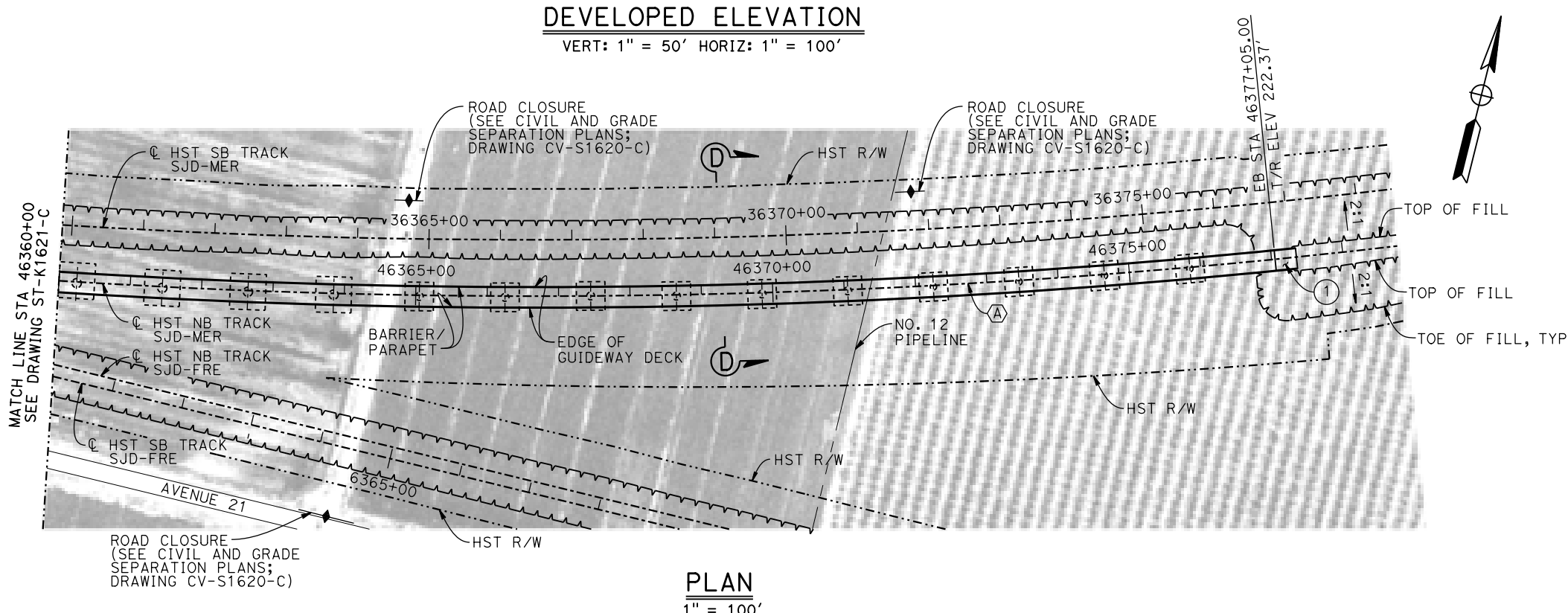
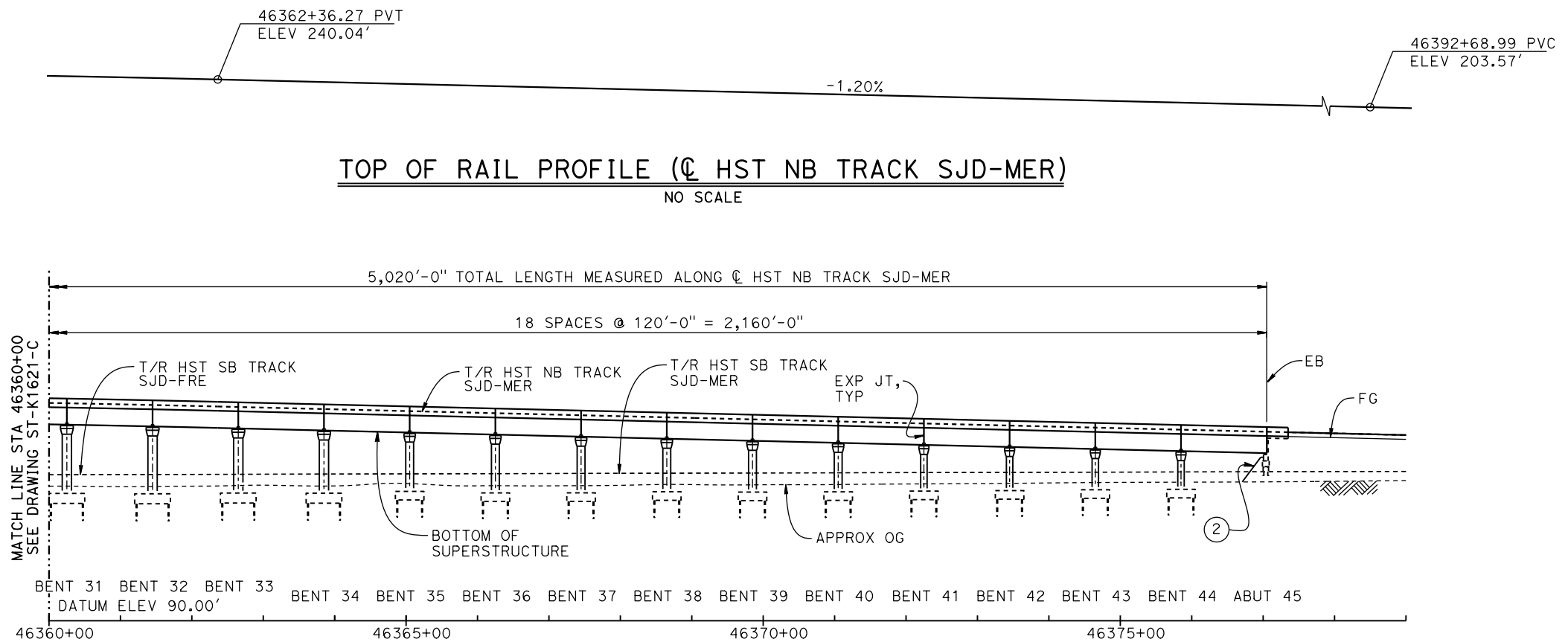


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 2 OF 5

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1621-C
SCALE AS SHOWN
SHEET NO.

p0042226 16-MAR-2016 09:25 MF-ST-K1622-C.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. SUN

DRAWN BY
A. M.

CHECKED BY
O. EDEWOR

IN CHARGE
C. LEMLEY

DATE
05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 3 OF 5

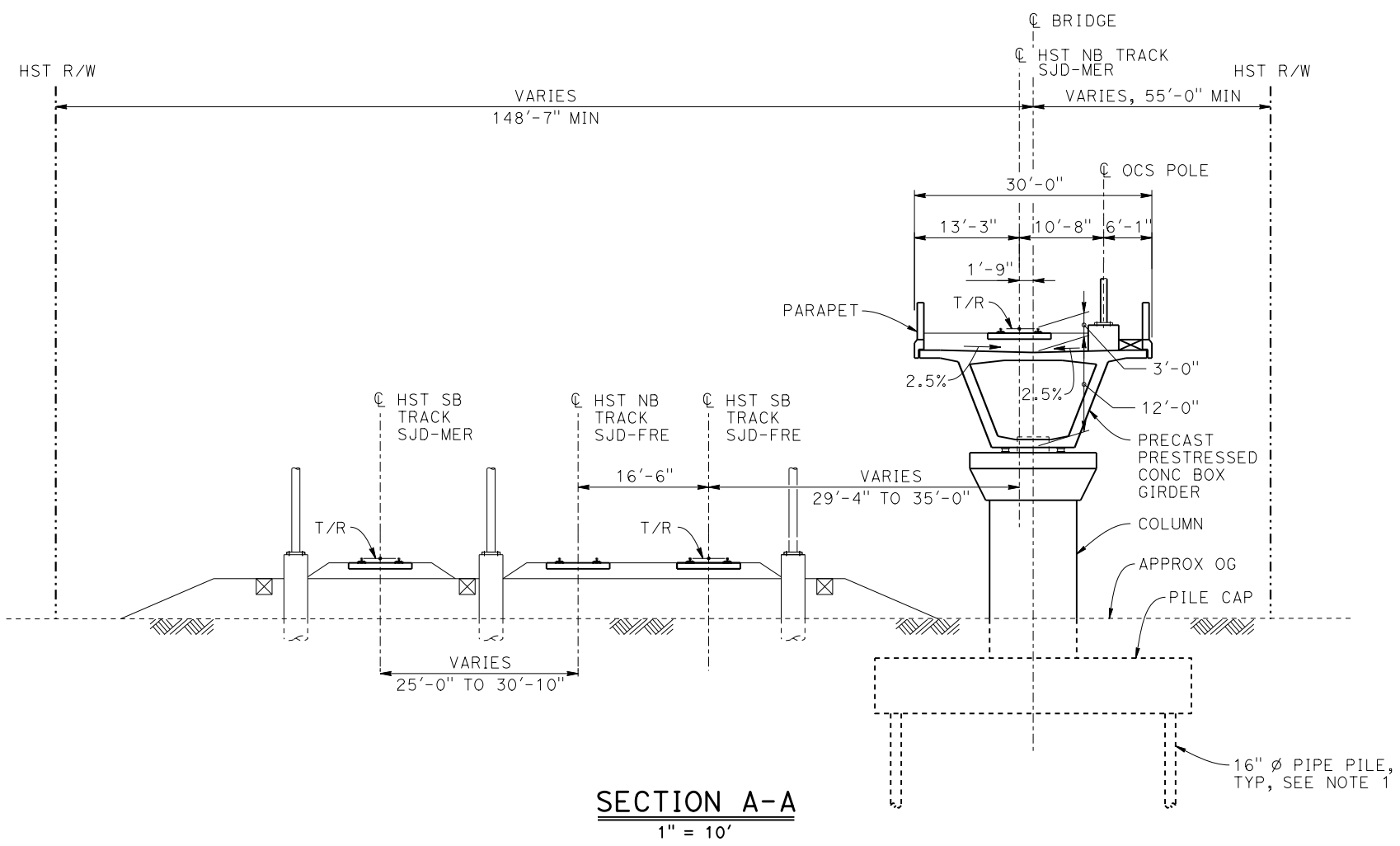
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1622-C

SCALE
AS SHOWN

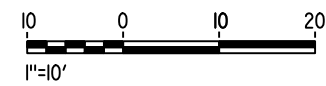
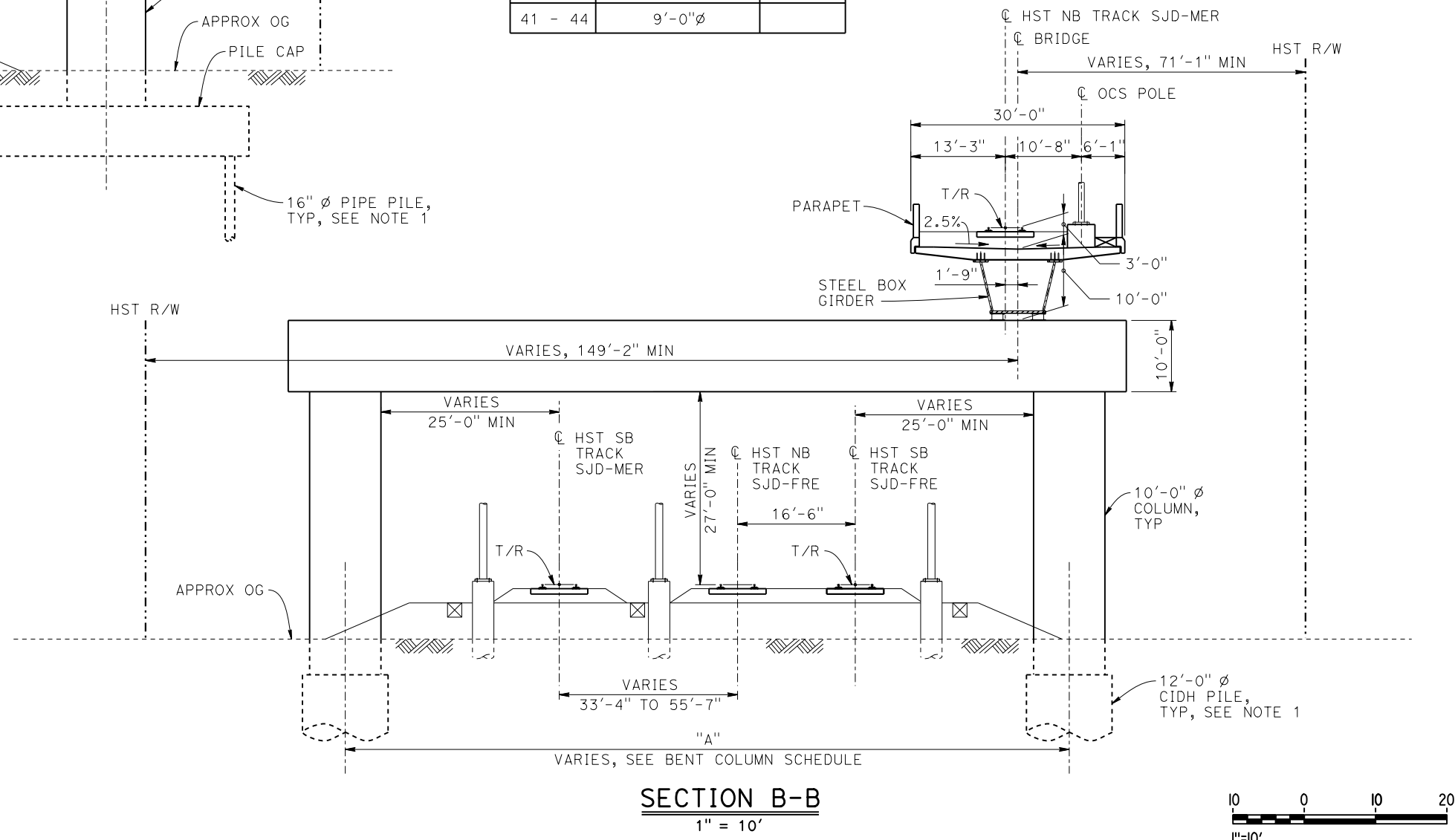
SHEET NO.

MF-ST-K3620-C.dgn
06-MAY-2015 10:48:37
p005133g



BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	"A"
2 - 5	9'-0"Ø	
6 - 11	11'-0"Ø	
12 - 13	13'-0"Ø	
14	12'-0"Ø	
15	2 - 10'-0"Ø	110'-0"
16	2 - 10'-0"Ø	113'-0"
17	2 - 10'-0"Ø	117'-0"
18	2 - 10'-0"Ø	121'-0"
19	2 - 10'-0"Ø	127'-0"
20	2 - 10'-0"Ø	133'-0"
21 - 25	2 - 10'-0"Ø	77'-0"
26 - 27	12'-0"Ø	
28 - 34	13'-0"Ø	
35 - 40	11'-0"Ø	
41 - 44	9'-0"Ø	

- NOTES:**
- PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0058-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

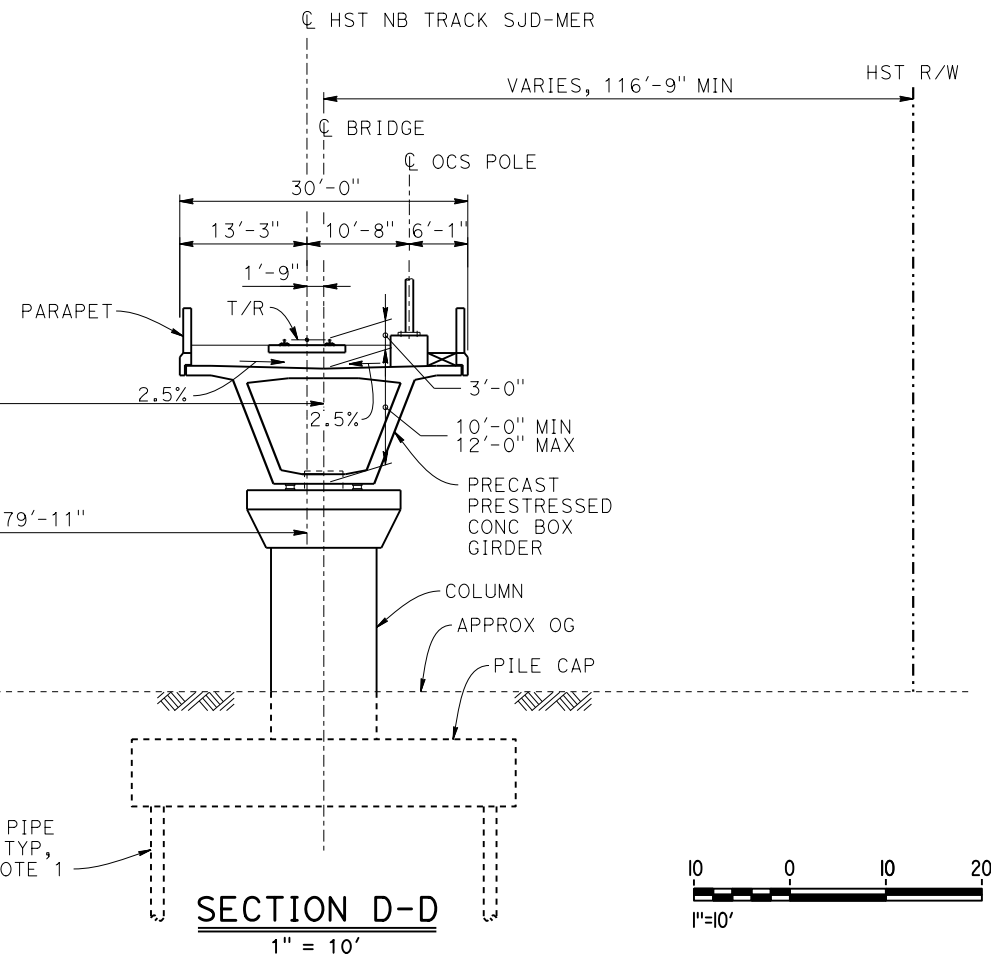
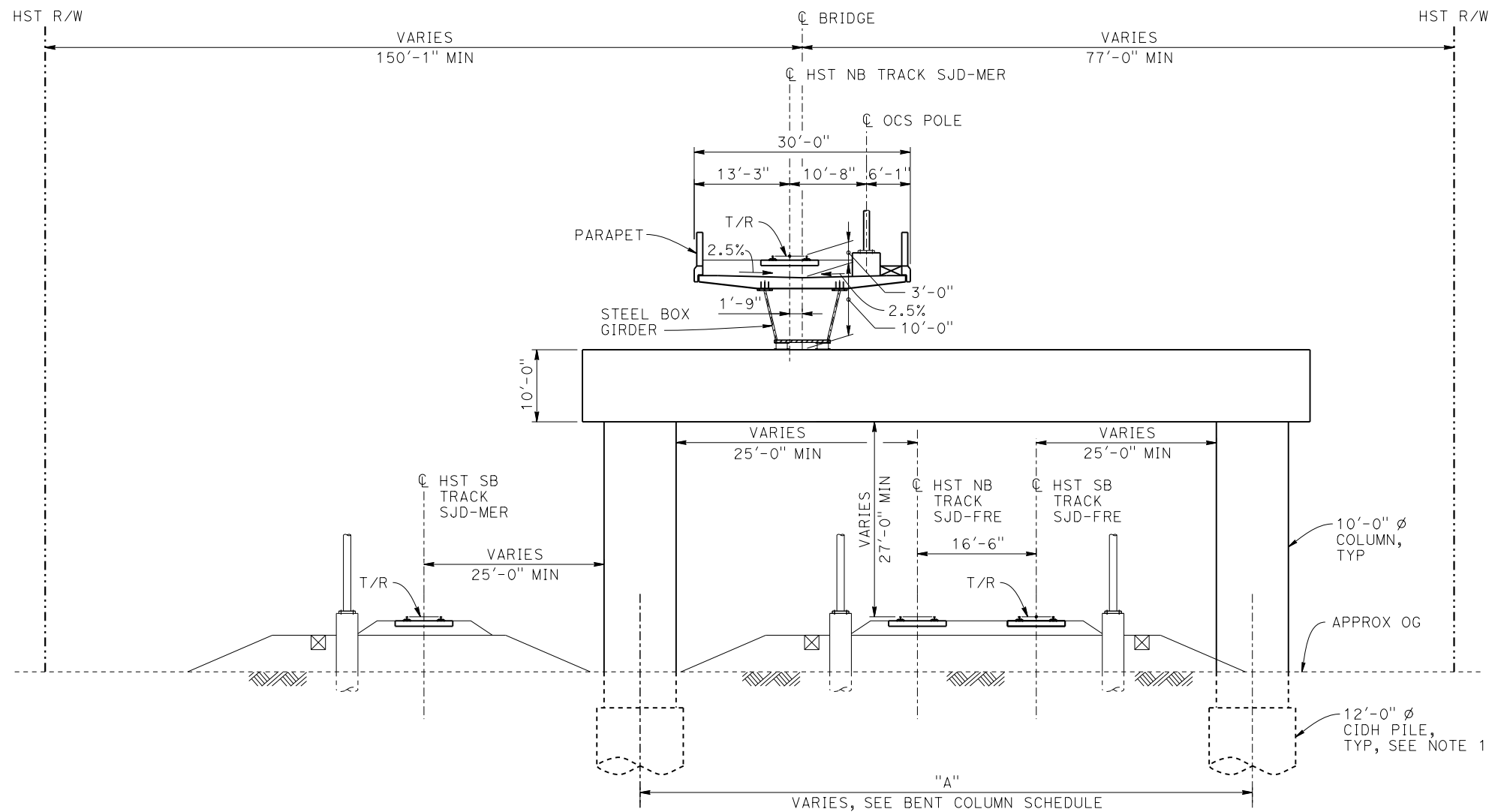


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 4 OF 5

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3620-C
SCALE AS SHOWN
SHEET NO.

p005133g 28-APR-2015 09:43 MF-ST-K3621-C.dgn



- NOTES:**
- PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0058-C.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

**RECORD SET
15% DESIGN
SUBMITTAL**

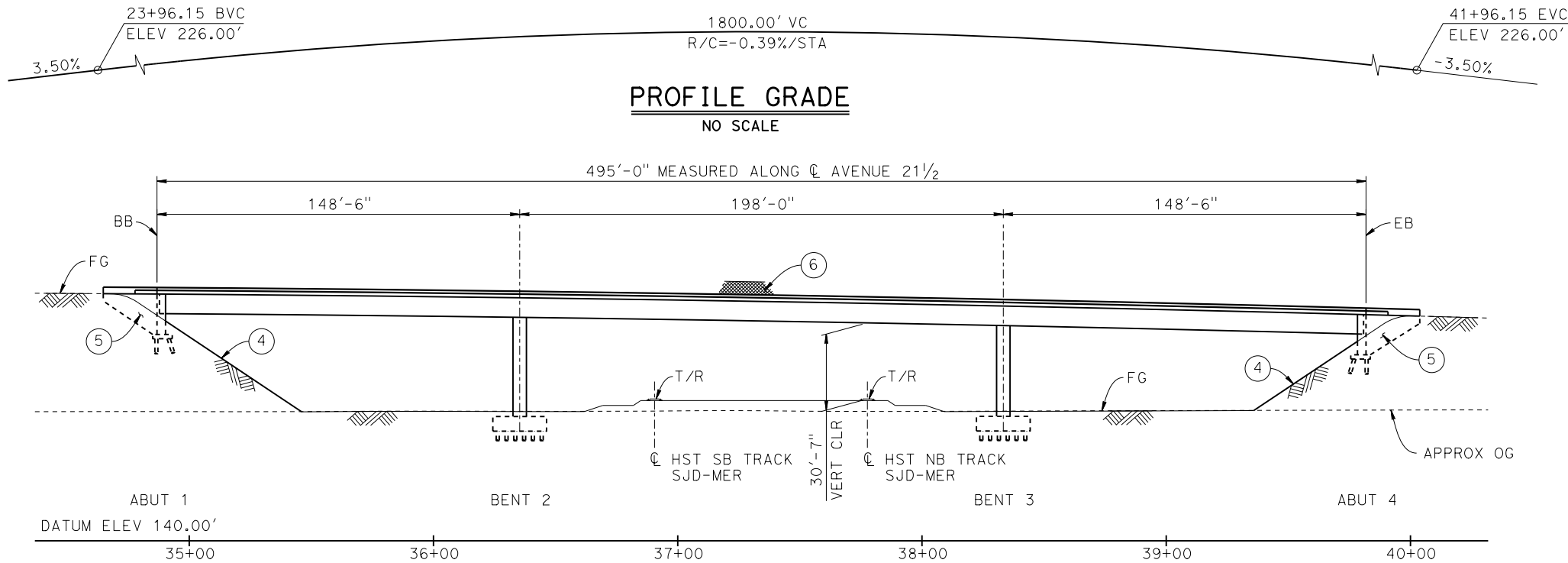
**NOT FOR
CONSTRUCTION**



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

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #5 - NORTHBOUND OVER HST MAINLINE - 5 OF 5

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3621-C
SCALE AS SHOWN
SHEET NO.

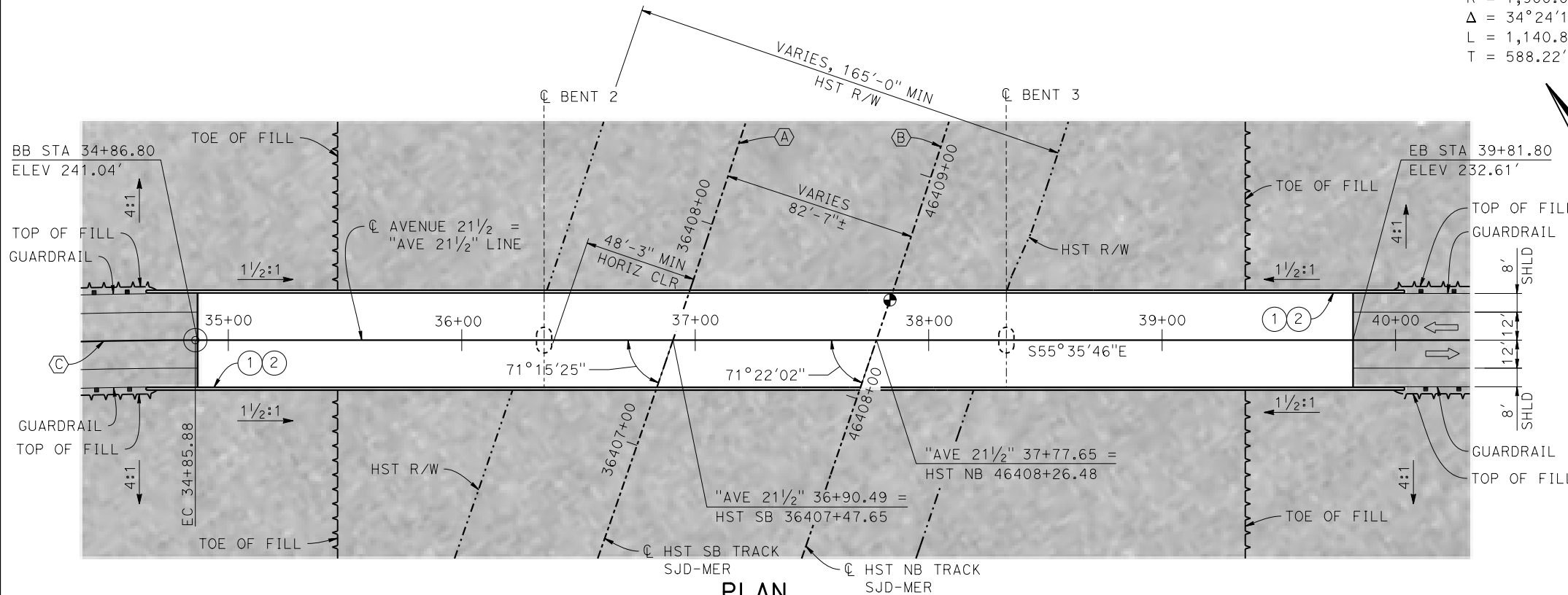


PROFILE GRADE
NO SCALE

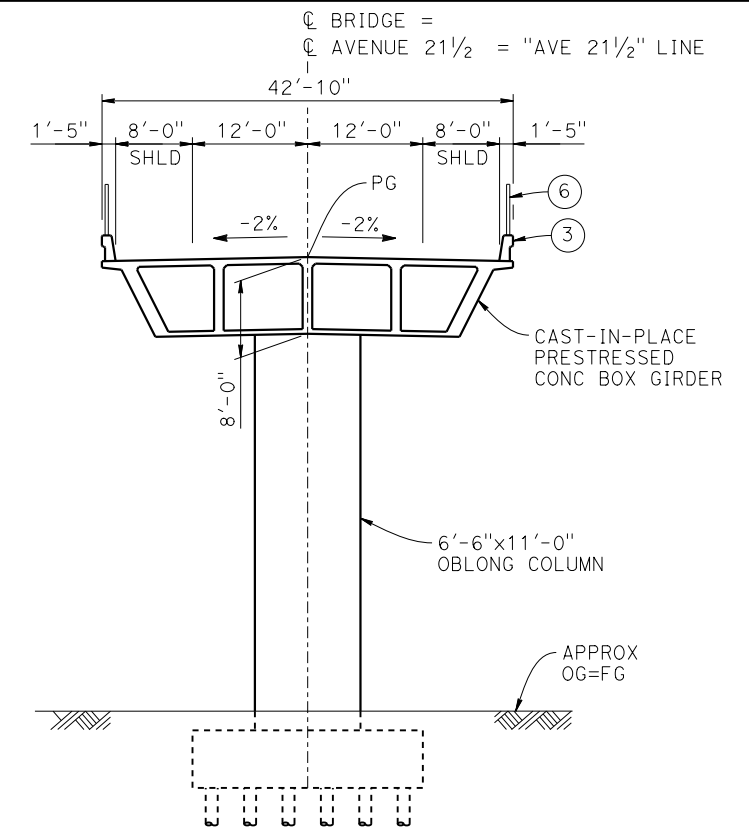
ELEVATION
1" = 30'

CURVE NO. 630-01 (C)

R = 1,900.00'
Δ = 34°24'14"
L = 1,140.87'
T = 588.22'



PLAN
1" = 30'



TYPICAL SECTION
1" = 10'

CURVE SJD-MER 1 SB (A)

R = 10,300.00'
LS = 1,500.00'

CURVE SJD-MER 1 NB (B)

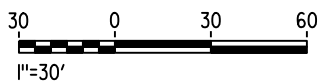
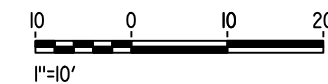
R = 10,376.50'
LS = 1,500.00'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "AVENUE 21 1/2 OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1 1/2 H:1 V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

1. ASSUME CLASS 140 PILES AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-C.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-C.



MF-ST-K1630-C.dgn

07-MAY-2015 15:36

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY W. JOHNSON
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

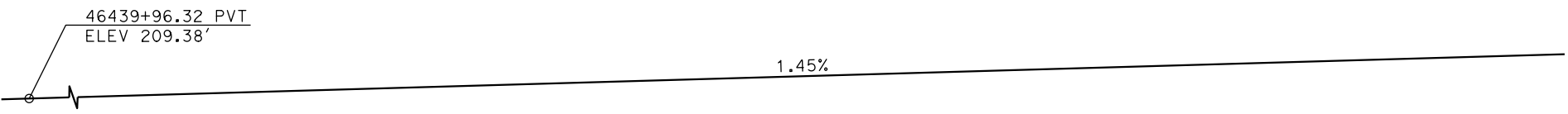
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

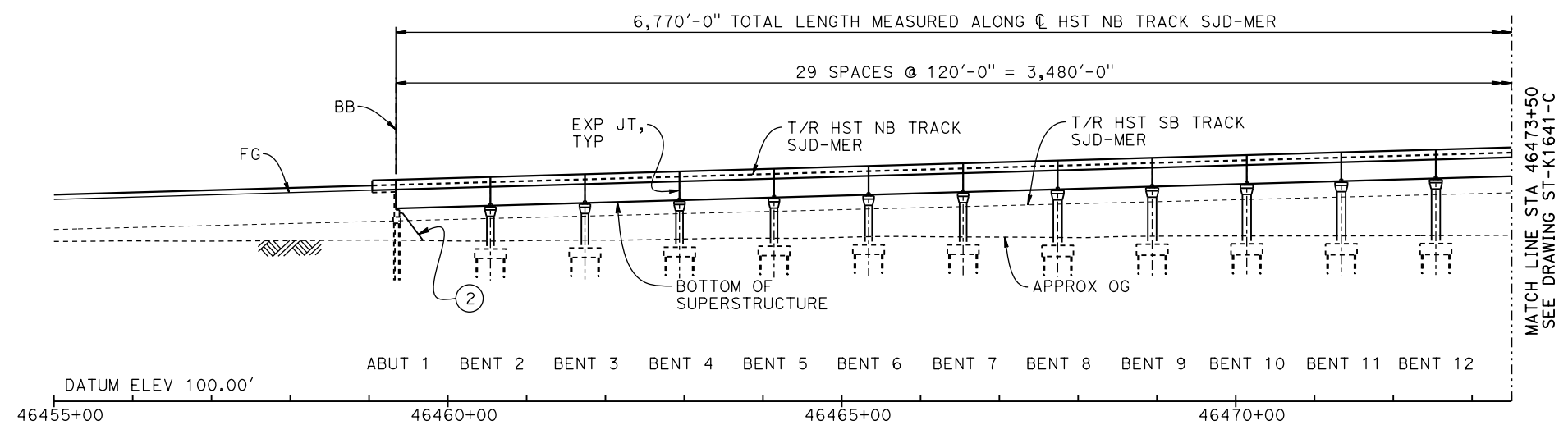
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AVENUE 21 1/2 OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1630-C
SCALE AS SHOWN
SHEET NO.



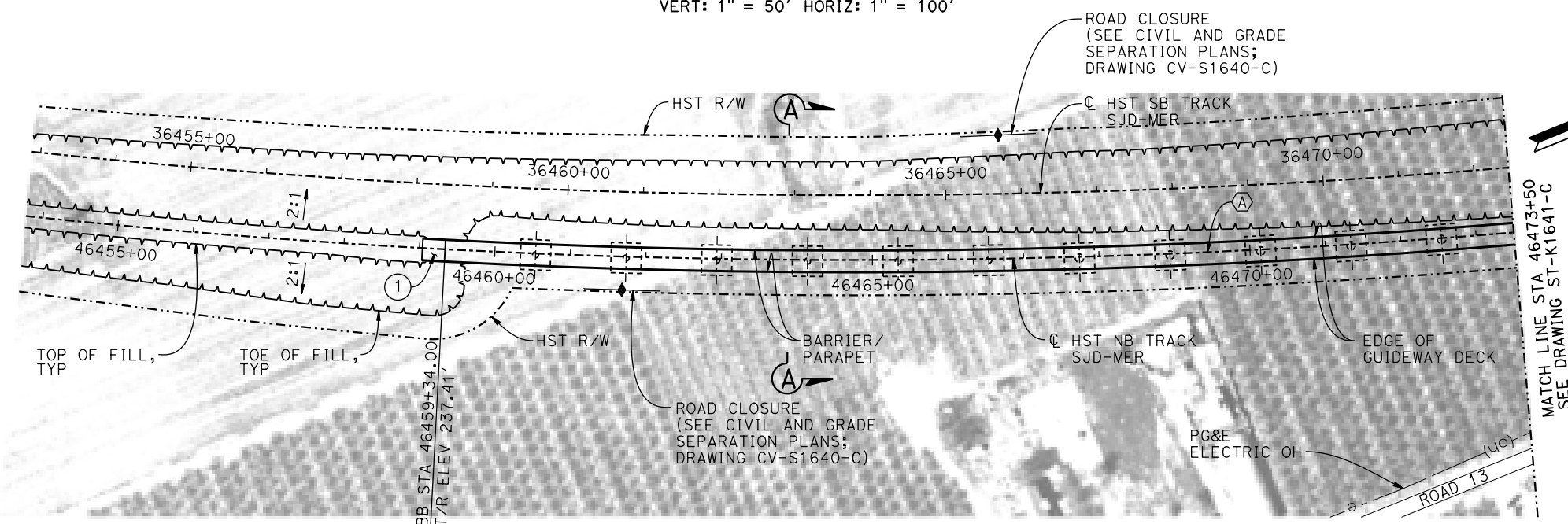
TOP OF RAIL PROFILE (CL HST NB TRACK SJD-MER)

NO SCALE



DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'



PLAN

1" = 100'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

CURVE SJD-MER 1 NB (A)

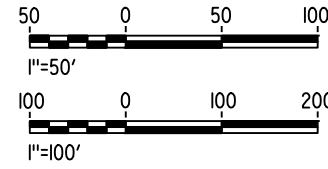
R = 10,376.50'
LS = 1,500.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. <u> </u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> X </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
AVENUE 22½	46479+15	32'X16.5'	2-WAY
SR 152	46505+72	52'X16.5'	E BND
SR 152	46506+18	52'x16.5'	W BND
3. <u> X </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
- FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWINGS ST-K3640-C AND ST-K3641-C.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-C AND CV-S1650-C.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-C AND CV-S1650-C.
- FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-C AND CV-S1650-C.
- FOR AVENUE 22½ UNDERPASS (HST SB) GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1646-C.
- FOR SR 152 UNDERPASS GENERAL PLAN AND TYPICAL SECTION, SEE DRAWINGS ST-K1450-C AND ST-K3450-C.



MF-ST-K1640-C.dgn 16-MAR-2016 9:25 p0042226

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

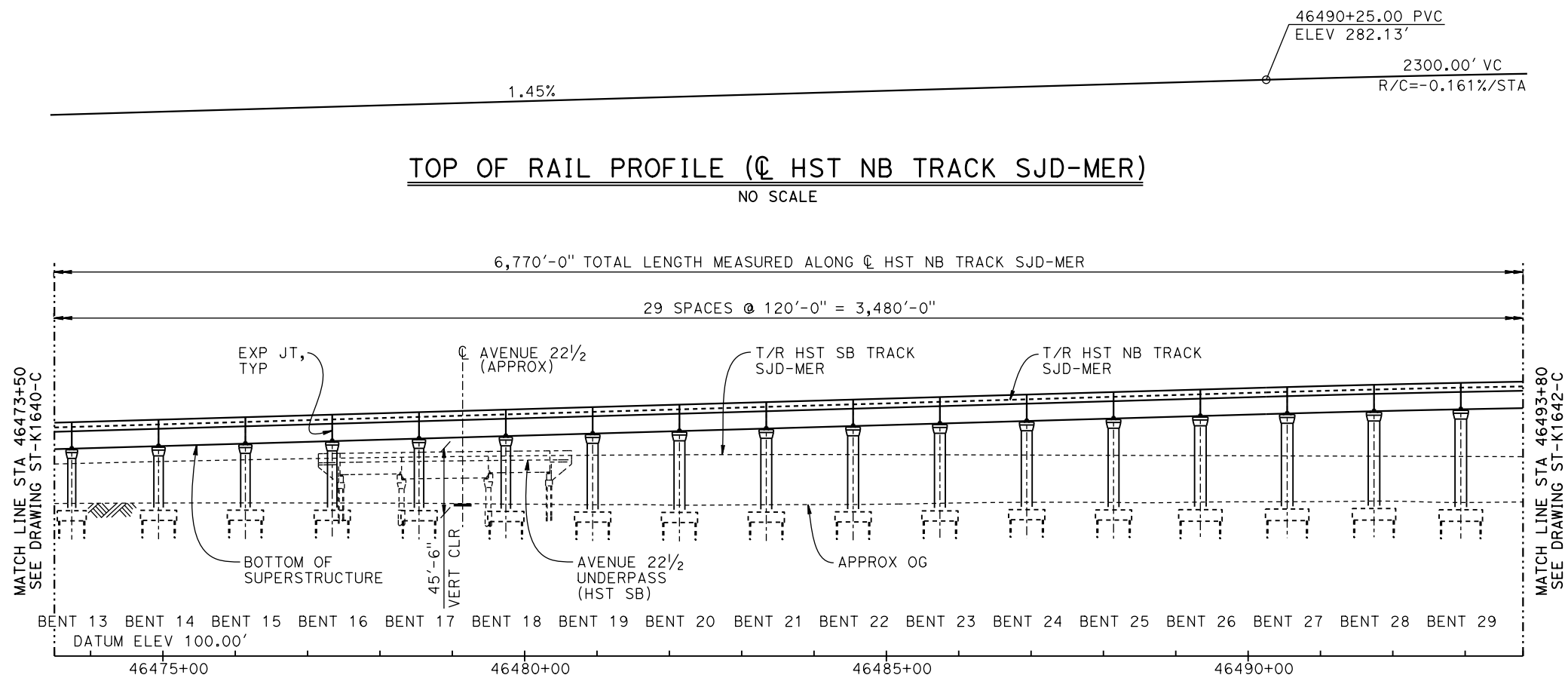
NOT FOR
CONSTRUCTION



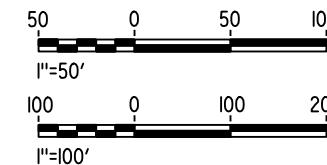
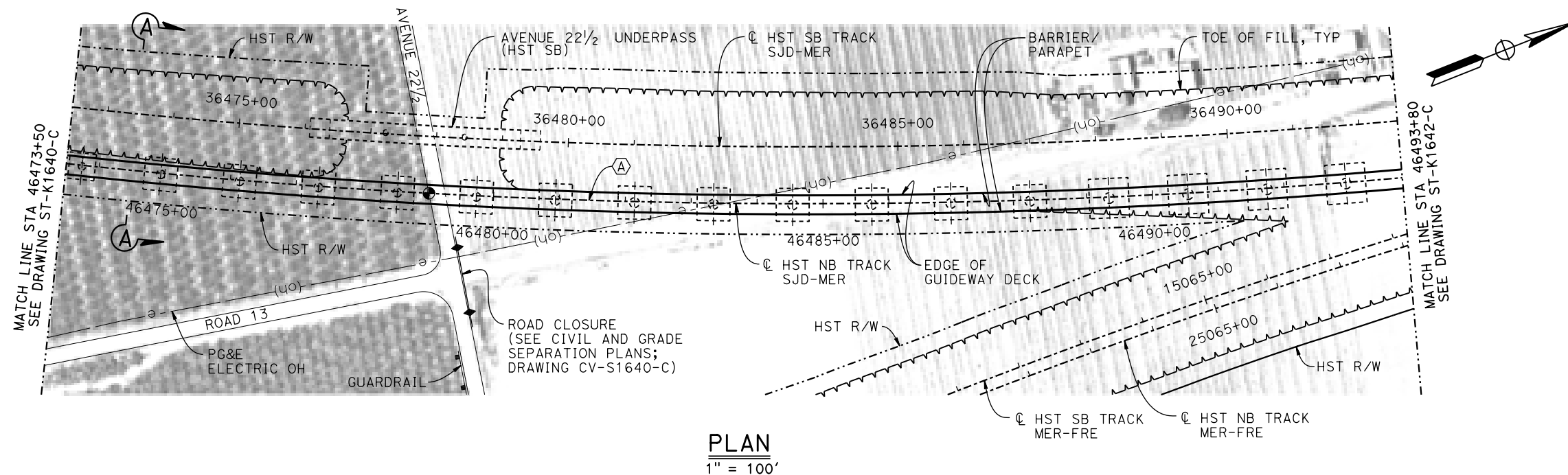
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 1 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1640-C
SCALE AS SHOWN
SHEET NO.

p0042226 16-MAR-2016 09:26 MF-ST-K1641-C.dgn



DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



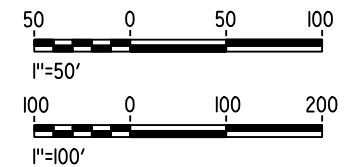
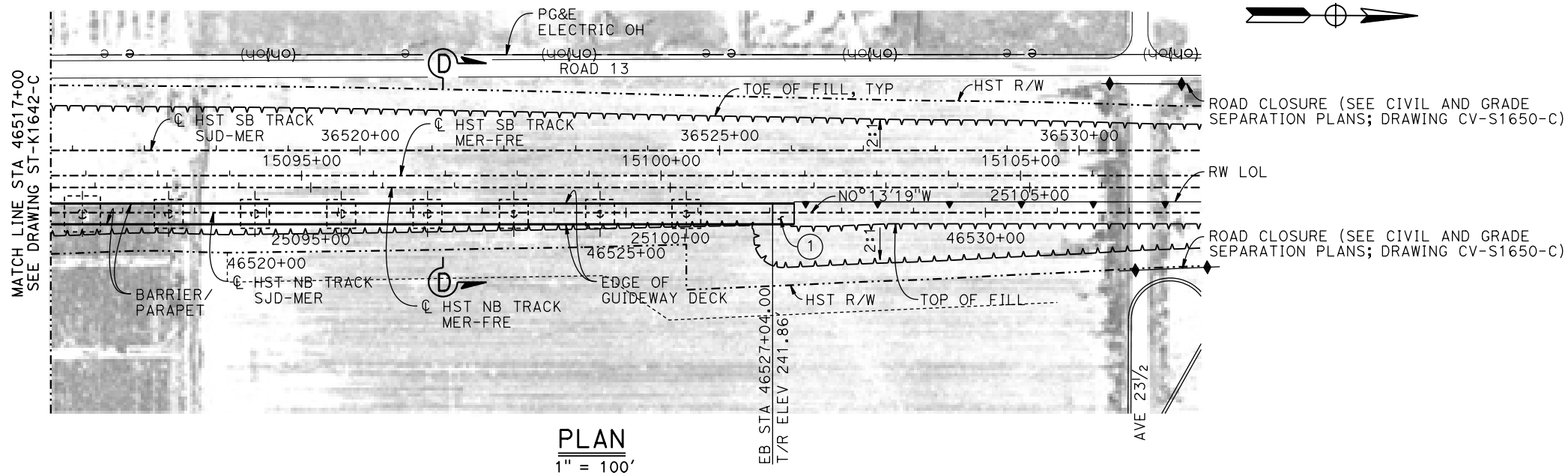
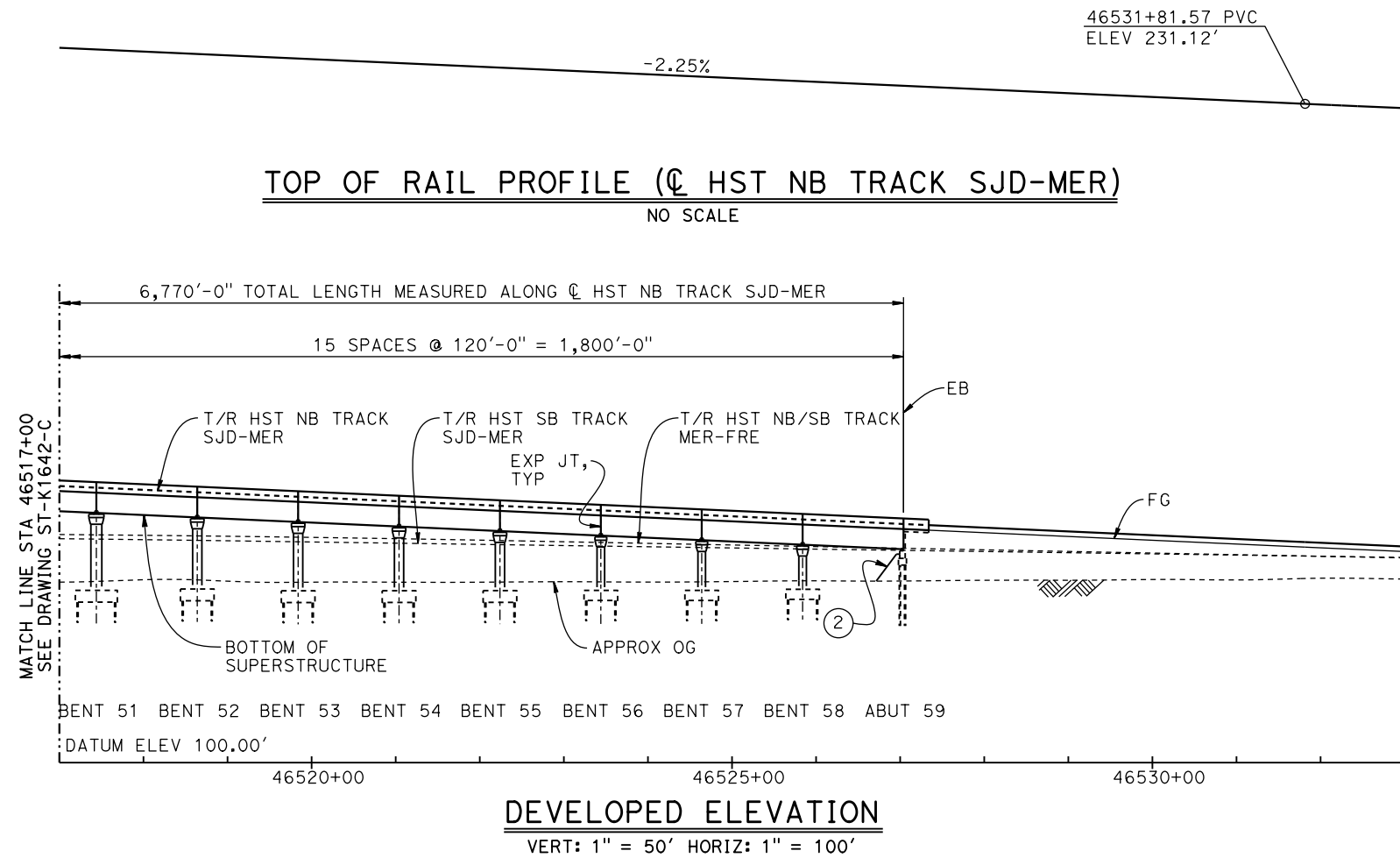
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 2 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1641-C
SCALE AS SHOWN
SHEET NO.

p0042226 16-MAR-2016 09:27 MF-ST-K1643-C.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



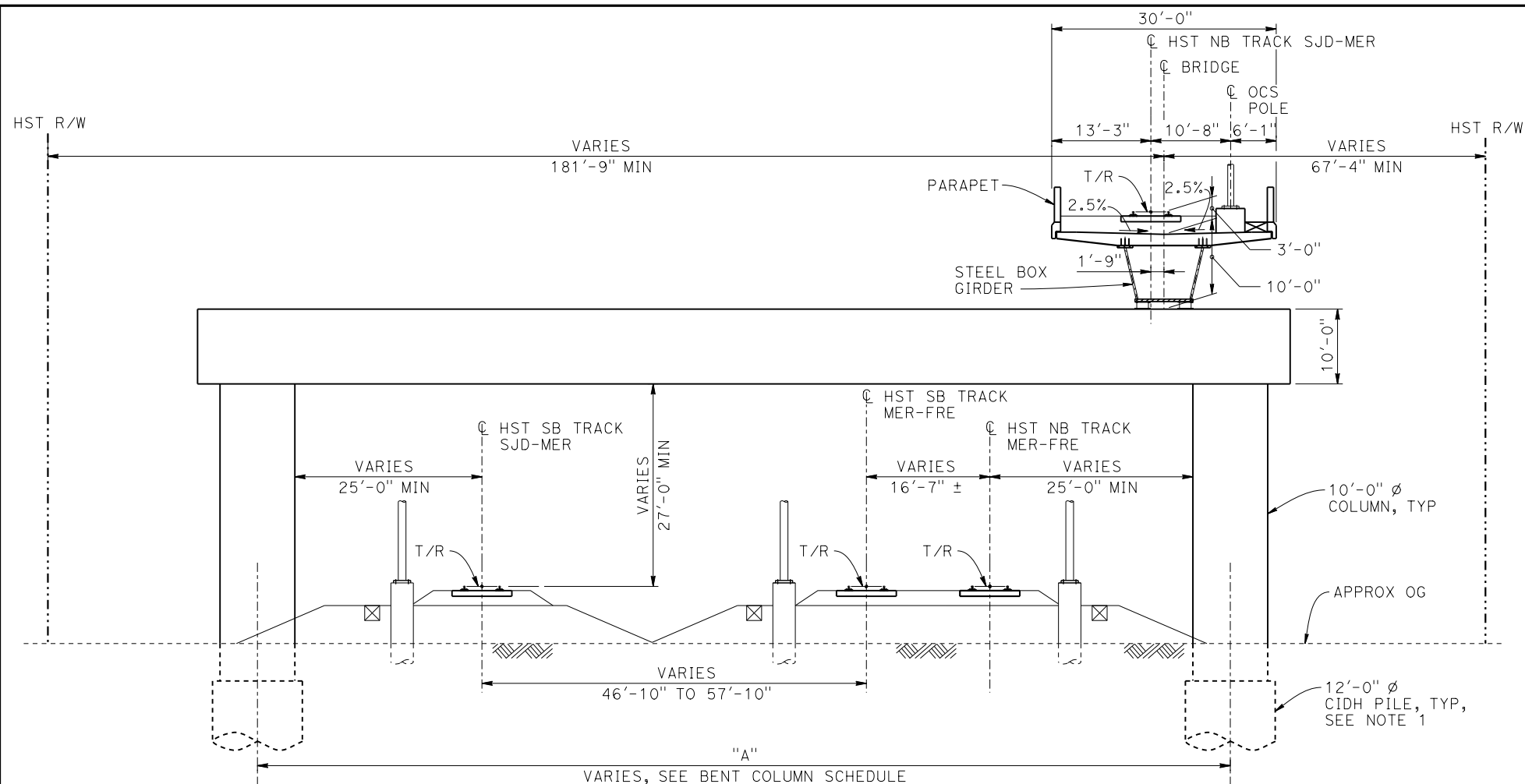
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

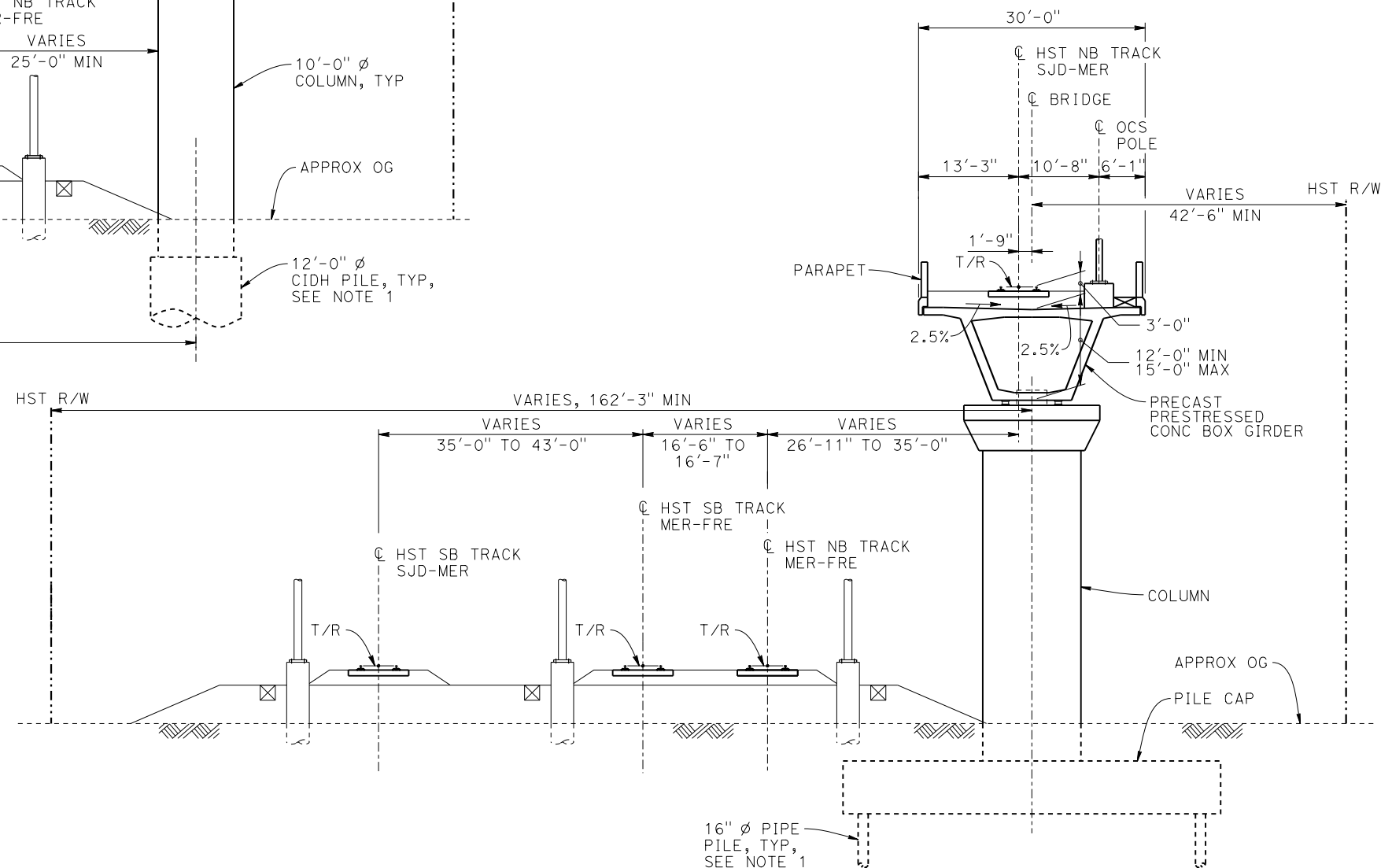
AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 4 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1643-C
SCALE AS SHOWN
SHEET NO.

p005133g 28-APR-2015 09:44 MF-ST-K3641-C.dgn



SECTION C-C
1" = 10'



SECTION D-D
1" = 10'



- NOTES:**
1. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0058-C.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. SUN
DRAWN BY A. M.
CHECKED BY O. EDEWOR
IN CHARGE C. LEMLEY
DATE 05/08/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

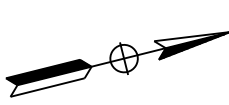
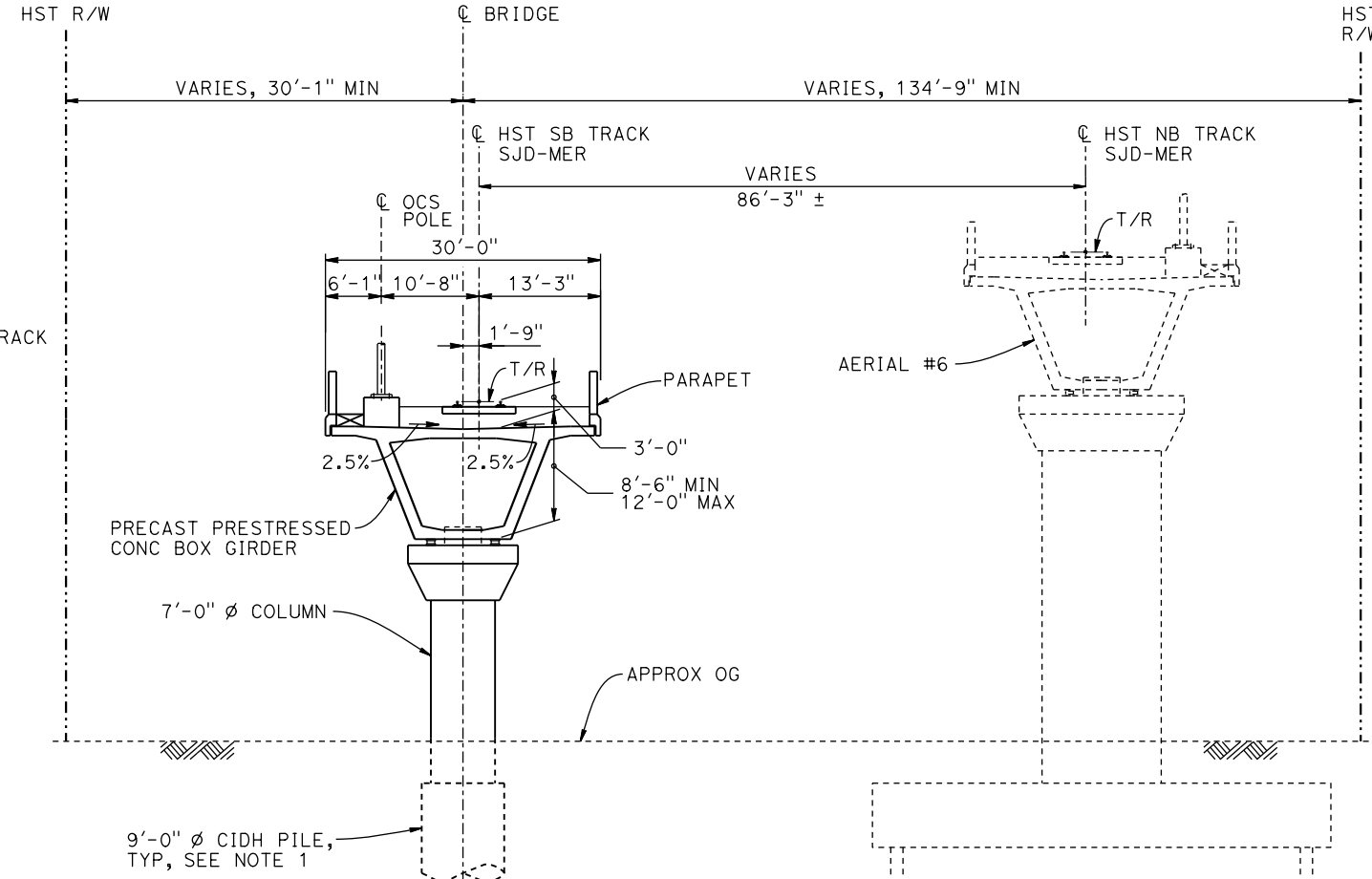
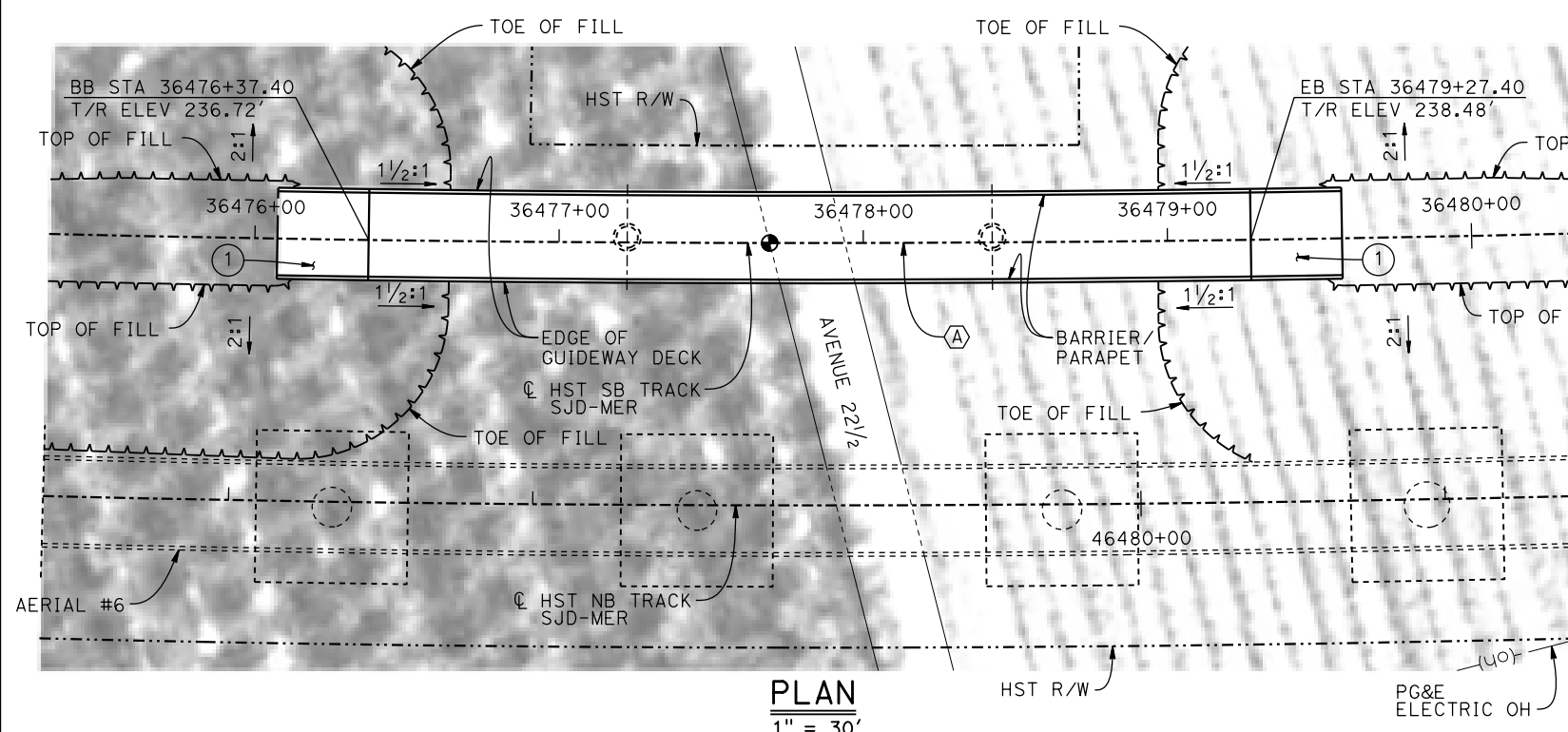
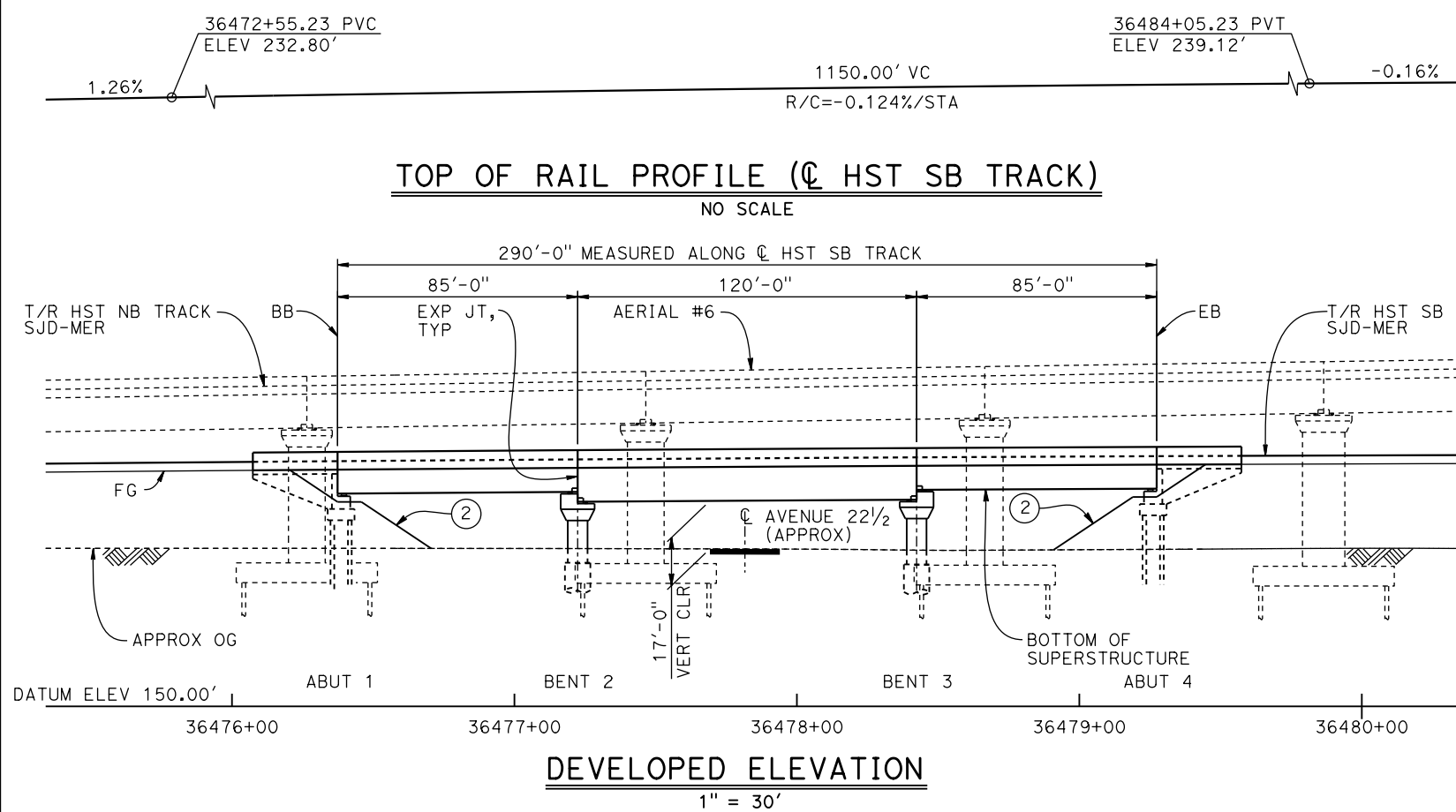


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #6 - NORTHBOUND OVER HST MERCED TO FRESNO - 6 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3641-C
SCALE AS SHOWN
SHEET NO.

16-MAR-2016 09:27 MF-ST-K1646-C.dgn

0042226



LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

CURVE SJD-MER 1 SB (A)

R = 10,300.00'
LS = 1,500.00'

NOTES:

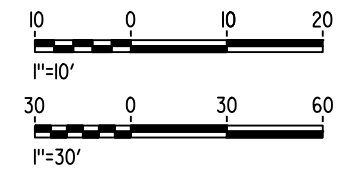
- 16" ϕ PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1640-C.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0058-C.
- FOR AERIAL #6 - NORTHBOUND HST OVER MERCED TO FRESNO GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1640-C TO ST-K1643-C, ST-K3640-C AND ST-K3641-C.

TYPICAL SECTION

1" = 10'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
AVENUE 22 1/2	36477+84	32'X16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



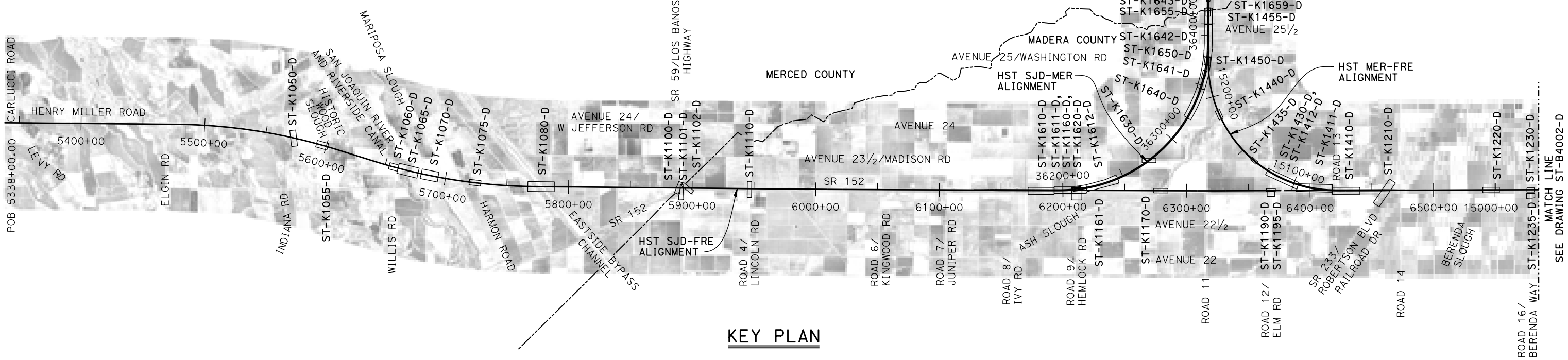
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p0042226

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p005133g 16-AUG-2016 08:29 MF-ST-B4001-D.dgn

SEE SAN JOSE TO CENTRAL VALLEY WYE
SECTION FOR CONTINUATION



NOTES:
ST-K - INDICATES AERIAL, CROSSING, AND GRADE SEPARATION DRAWINGS



KEY PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



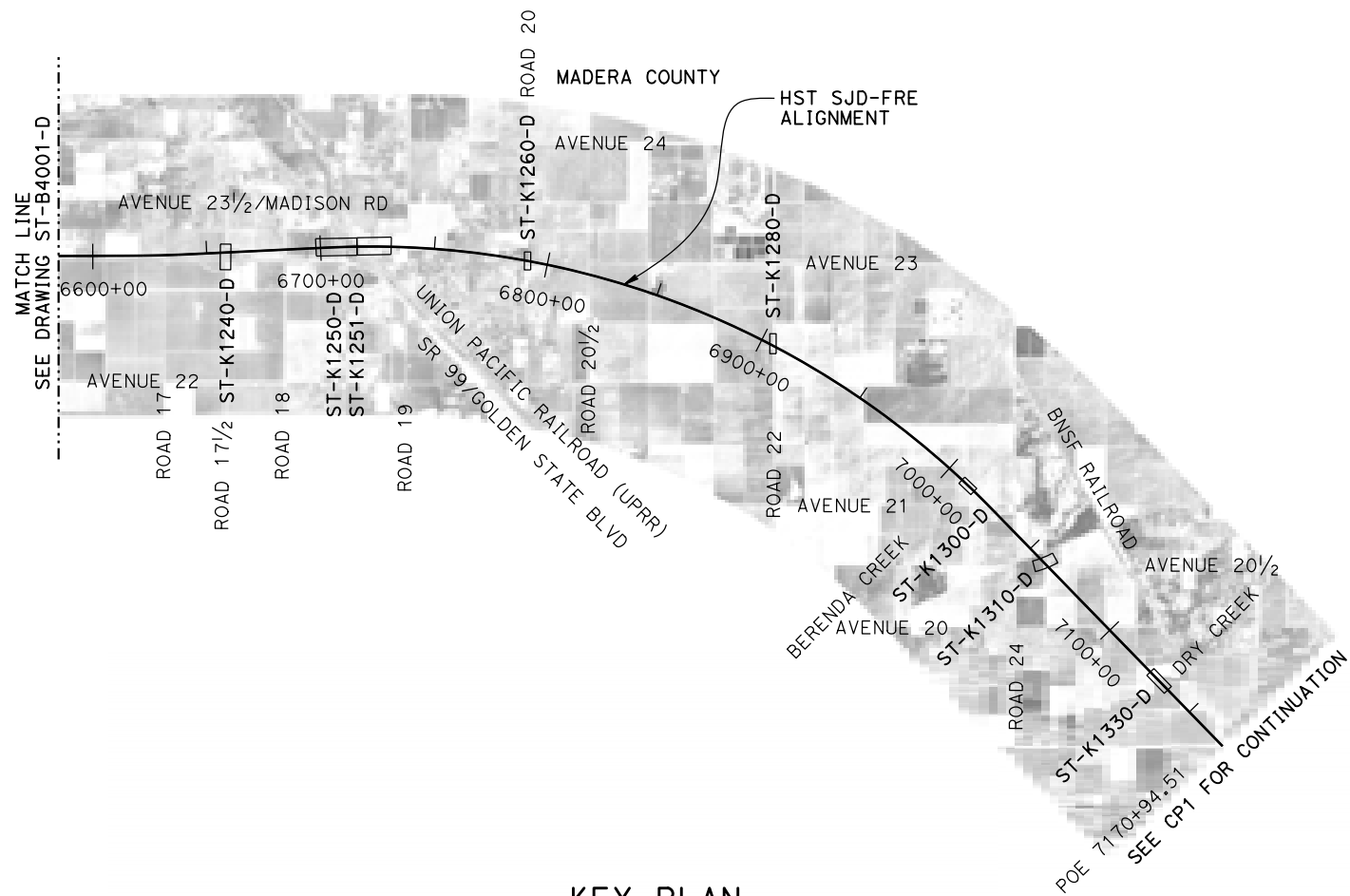
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
KEY MAP OF STRUCTURAL PLANS
SHEET 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-B4001-D
SCALE N. T. S.
SHEET NO.

p005133g 15-AUG-2016 8:25 MF-ST-B4002-D.dgn

NOTES:

ST-K - INDICATES AERIAL, CROSSING, AND
GRADE SEPARATION DRAWINGS



KEY PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

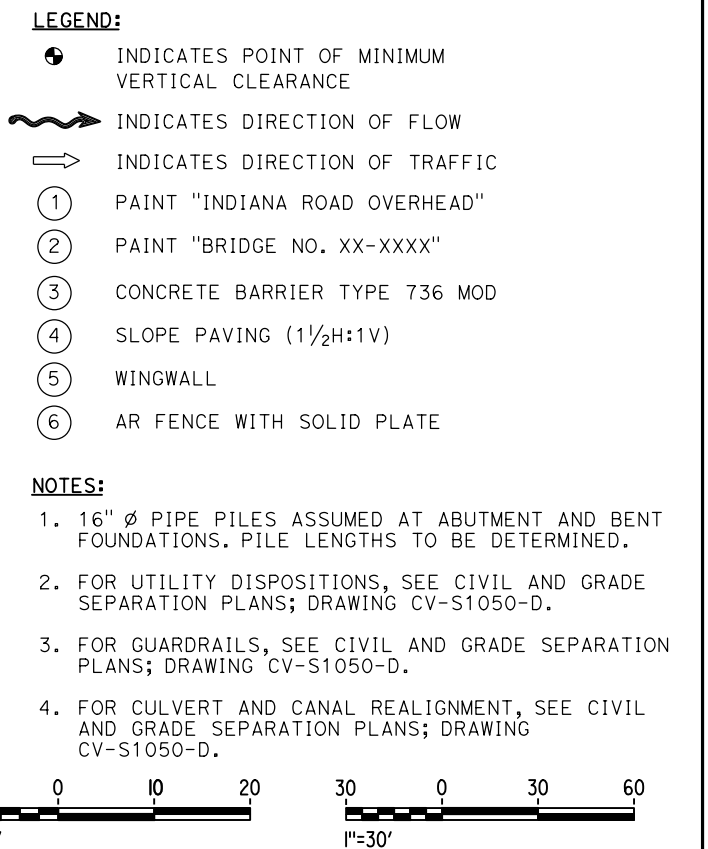
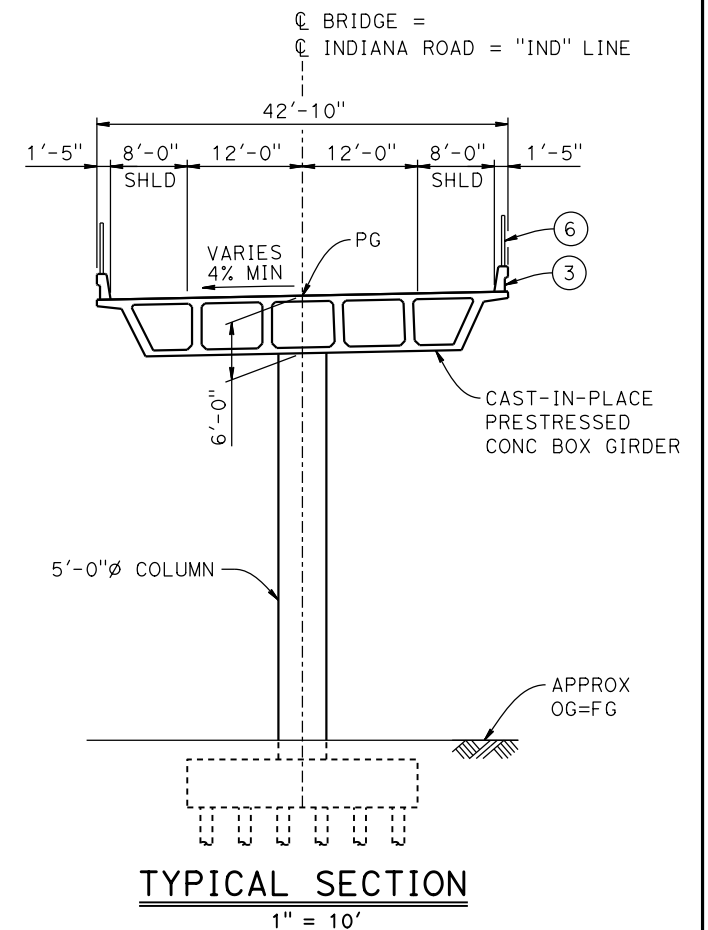




CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

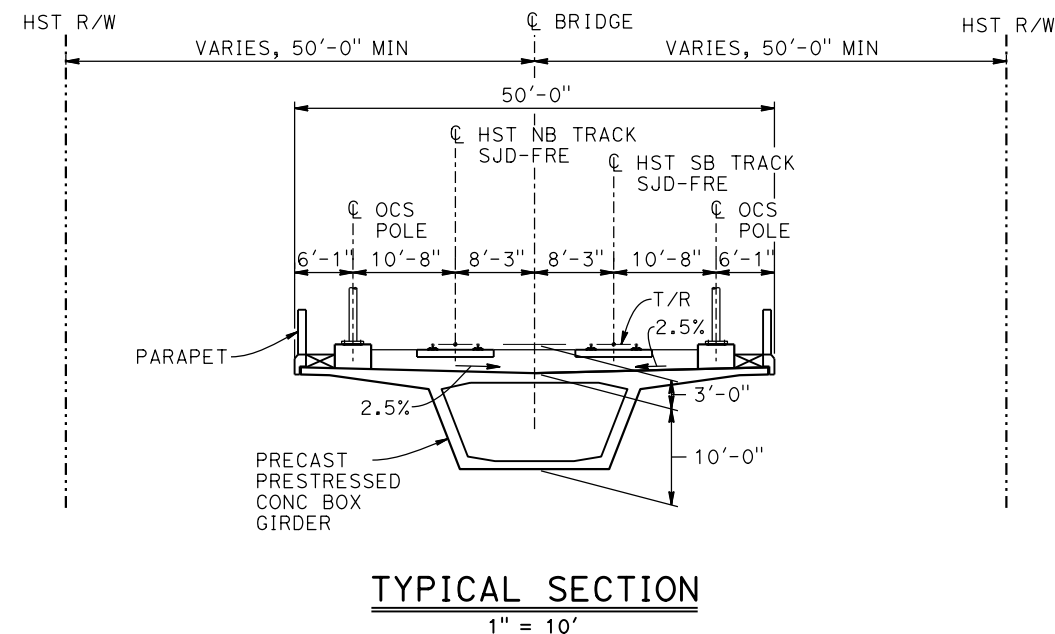
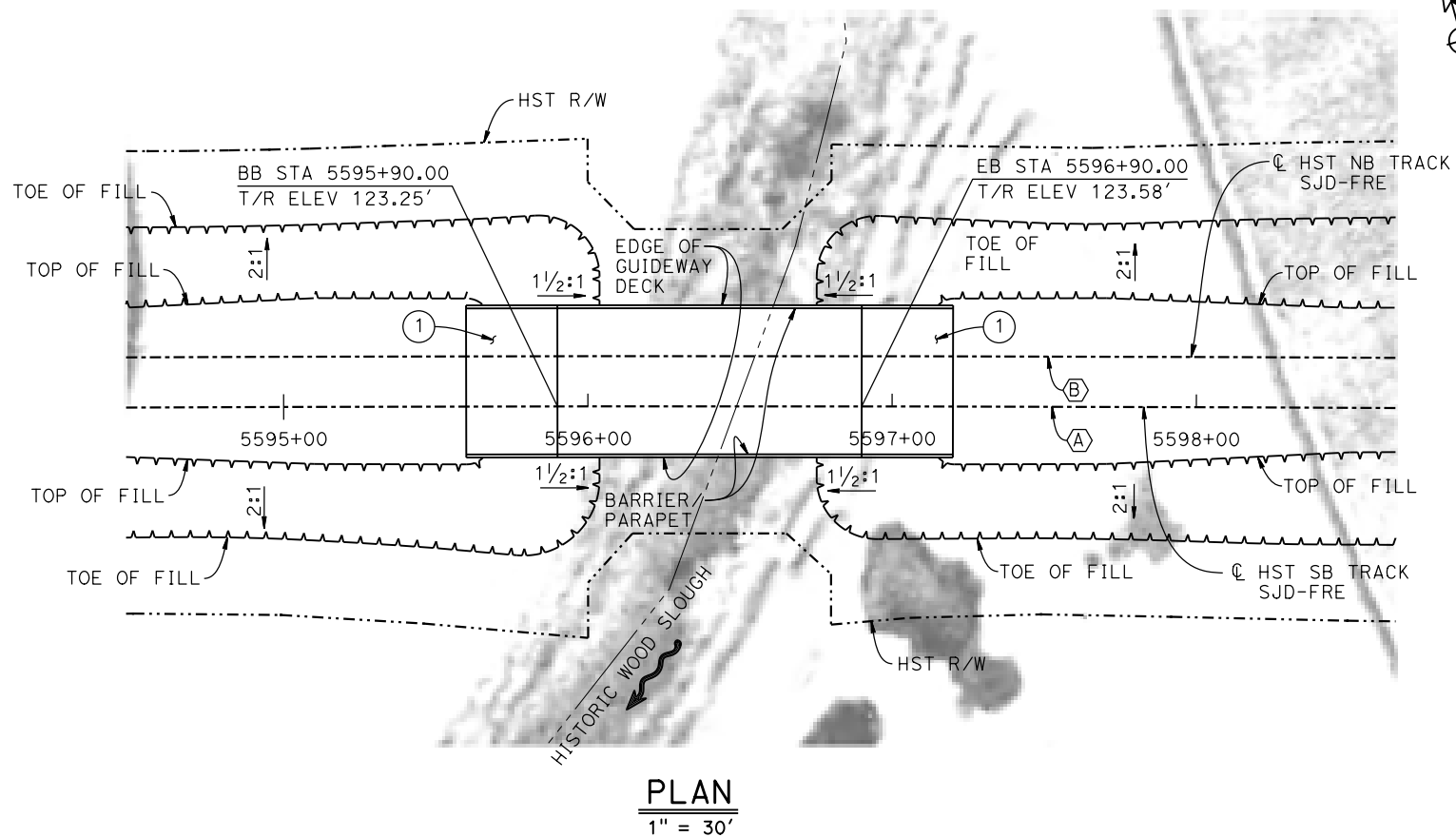
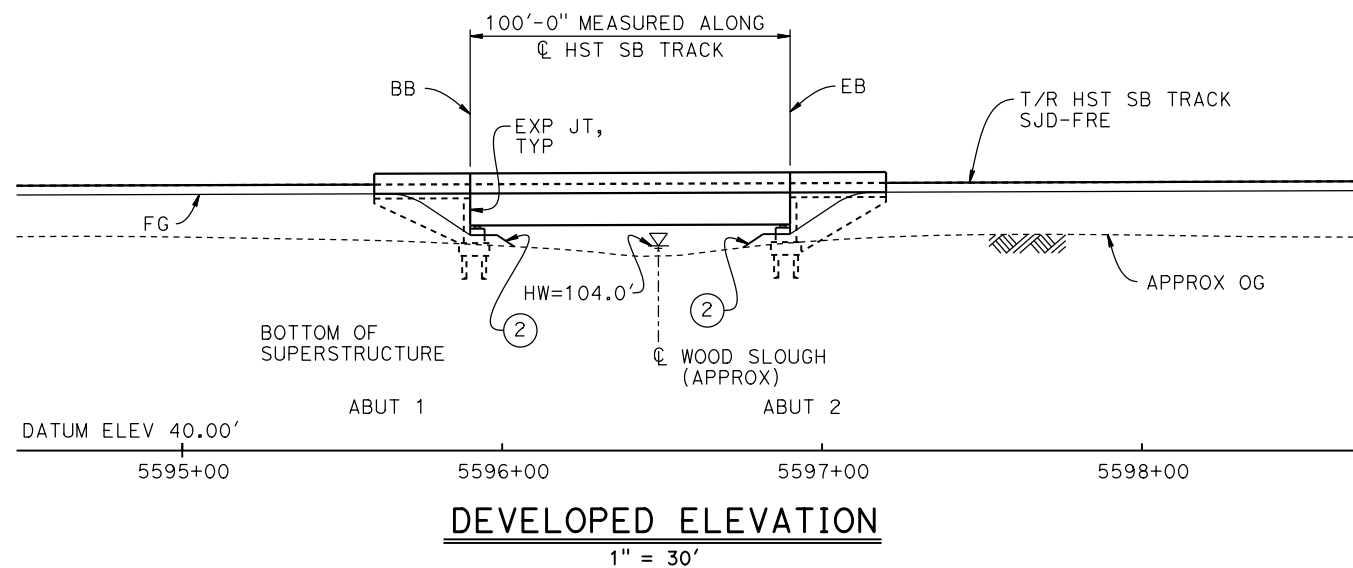
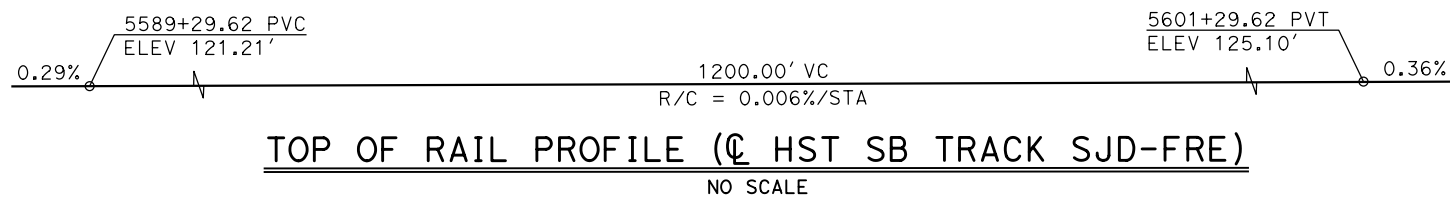
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
KEY MAP OF STRUCTURAL PLANS
SHEET 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-B4002-D
SCALE N. T. S.
SHEET NO.



16- P0051330						DESIGNED BY M. BRATT	RECORD SET 15% DESIGN SUBMITTAL	 PARSONS		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION	CONTRACT NO. HSR08-05
						DRAWN BY A. M.					DRAWING NO. ST-K1050-D
						CHECKED BY K. CHARAN					SCALE AS SHOWN
						IN CHARGE C. LEMLEY					SHEET NO.
						DATE 08/12/2016					
	REV	DATE	BY	CHK	APP	DESCRIPTION	NOT FOR CONSTRUCTION				



LEGEND:

- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

NOTES:

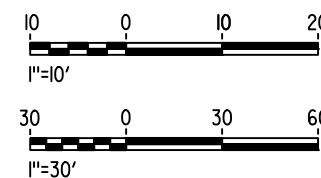
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1060-D.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0050-D AND TT-B0052-D.

CURVE SJD-FRE 2 SB (A)

R = 45,000.00'
LS = 1,650.00'

CURVE SJD-FRE 2 NB (A)

R = 45,016.50'
LS = 1,650.00'



MF-ST-K1055-D.dgn

29-AUG-2016 2:08

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 09/02/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

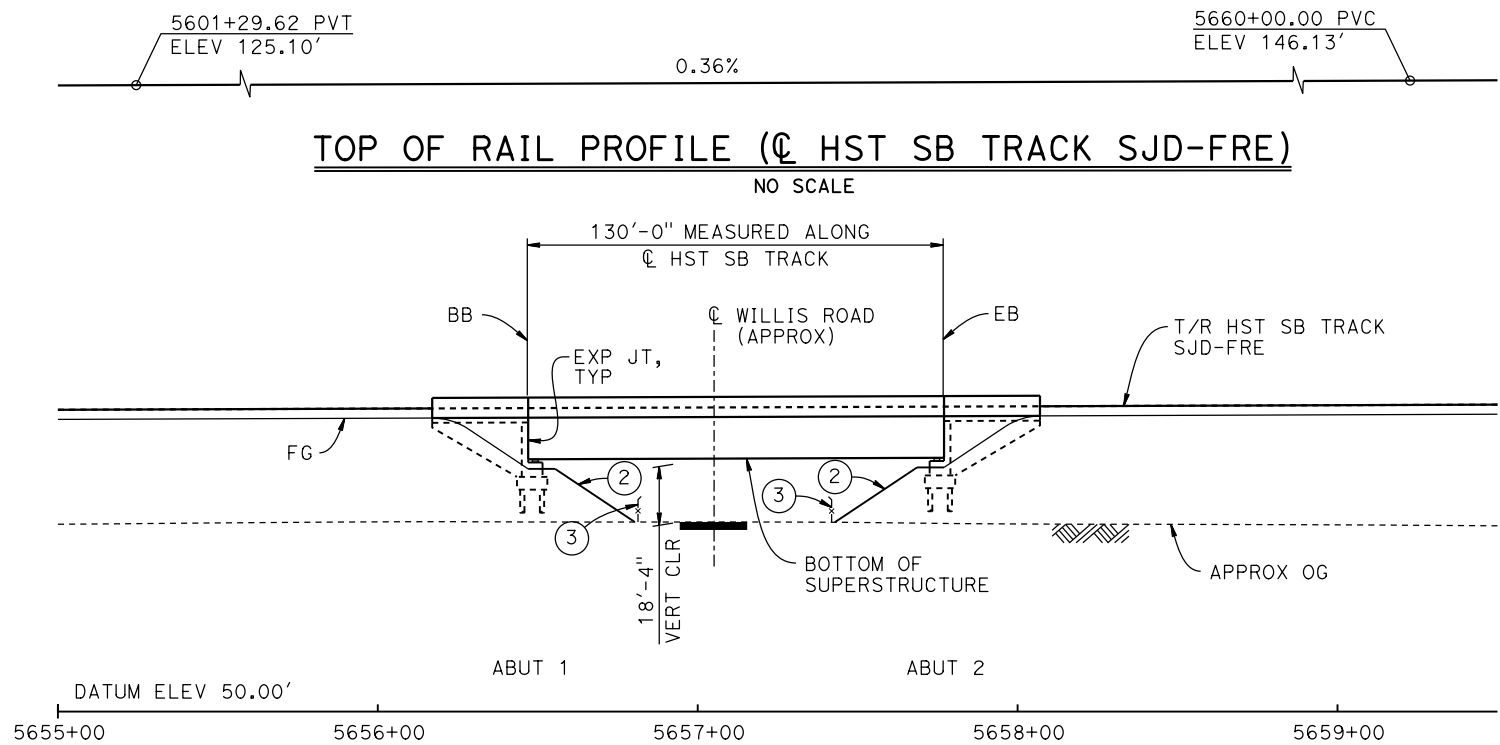
**NOT FOR
CONSTRUCTION**



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

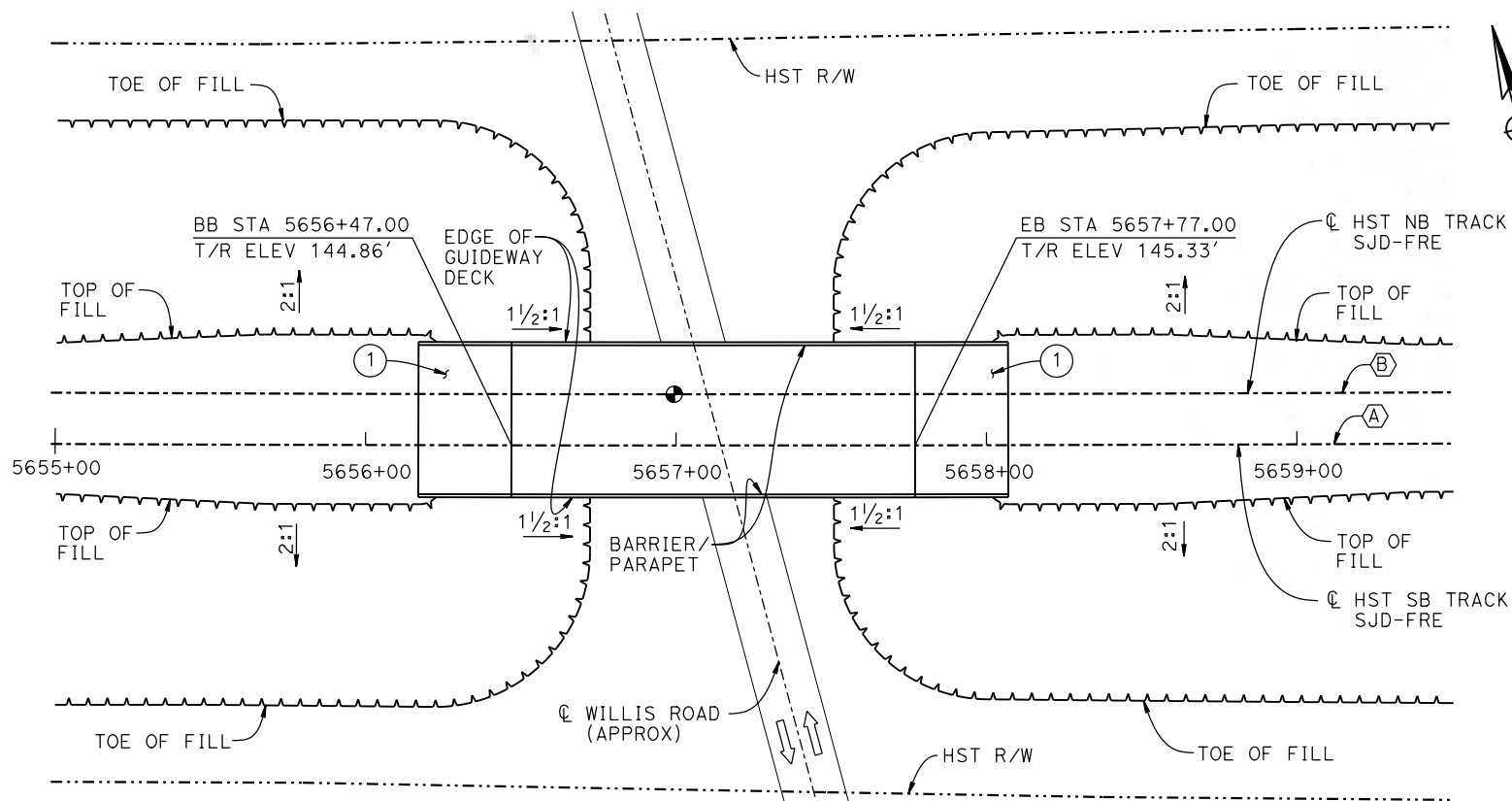
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
WOOD SLOUGH BRIDGE

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1055-D
SCALE AS SHOWN
SHEET NO.



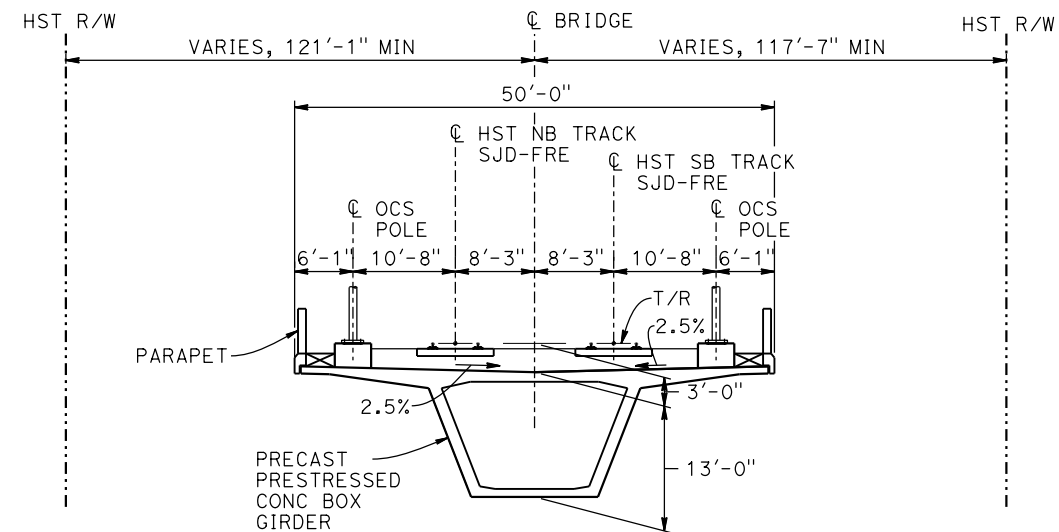
DEVELOPED ELEVATION

1" = 30'



PLAN

1" = 30'



TYPICAL SECTION

1" = 10'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)
WILLIS ROAD	5657+14 32'X16.5' 2-WAY

- TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- STRUCTURE APPROACH
- SLOPE PAVING (1 1/2H:1V)
- AR FENCE, SEE TRACK PLANS; DRAWING TT-B0020-D

NOTES:

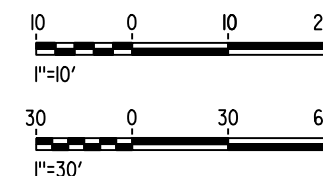
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1060-D.
- FOR TRACK SUPERELEVATION, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0050-D AND TT-B0052-D.

CURVE SJD-FRE 2 SB (A)

R = 45,016.50'
LS = 1,550.00'

CURVE SJD-FRE 2 NB (B)

R = 45,000.00'
LS = 1,550.00'



MF-ST-K1060-D.dgn

15-AUG-2016 8:26

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

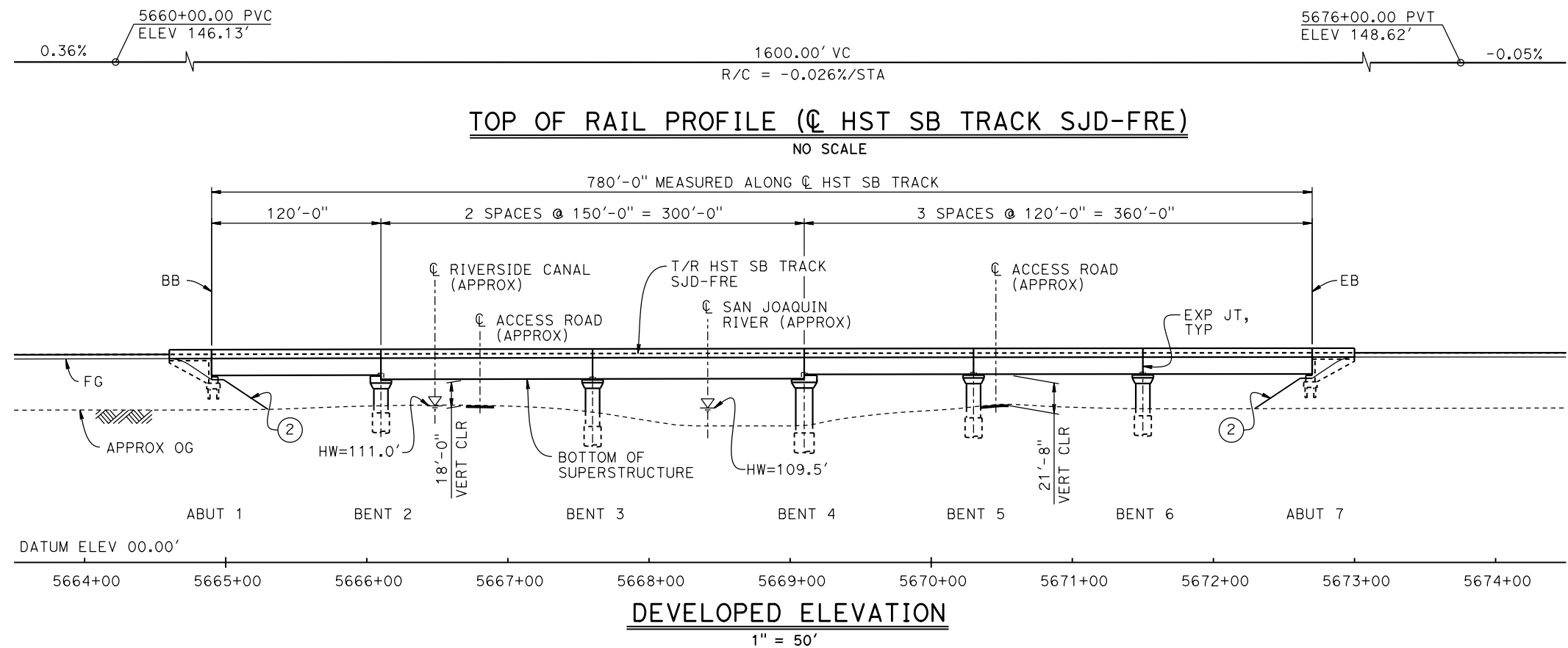
**NOT FOR
CONSTRUCTION**



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

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
WILLIS ROAD UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1060-D
SCALE AS SHOWN
SHEET NO.



LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

CURVE SJD-FRE 2 SB (A)

R = 45,016.50'
LS = 1,550.00'

CURVE SJD-FRE 2 NB (B)

R = 45,000.00'
LS = 1,550.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

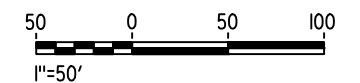
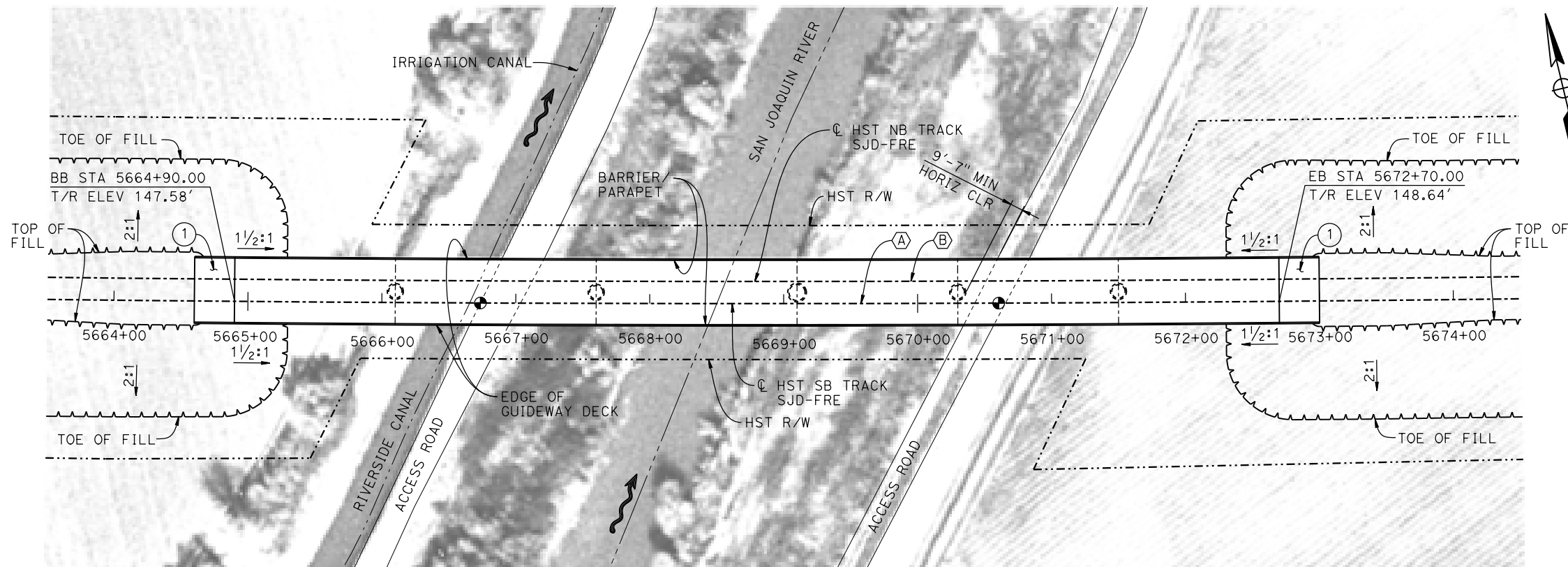
- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)
ACCESS ROAD 5666+85	20'X16.5' -
ACCESS ROAD 5670+55	20'X16.5' -

- TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
- FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3065-D.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1060-D.



MF-ST-K1065-D.dgn

16-AUG-2016 7:03

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

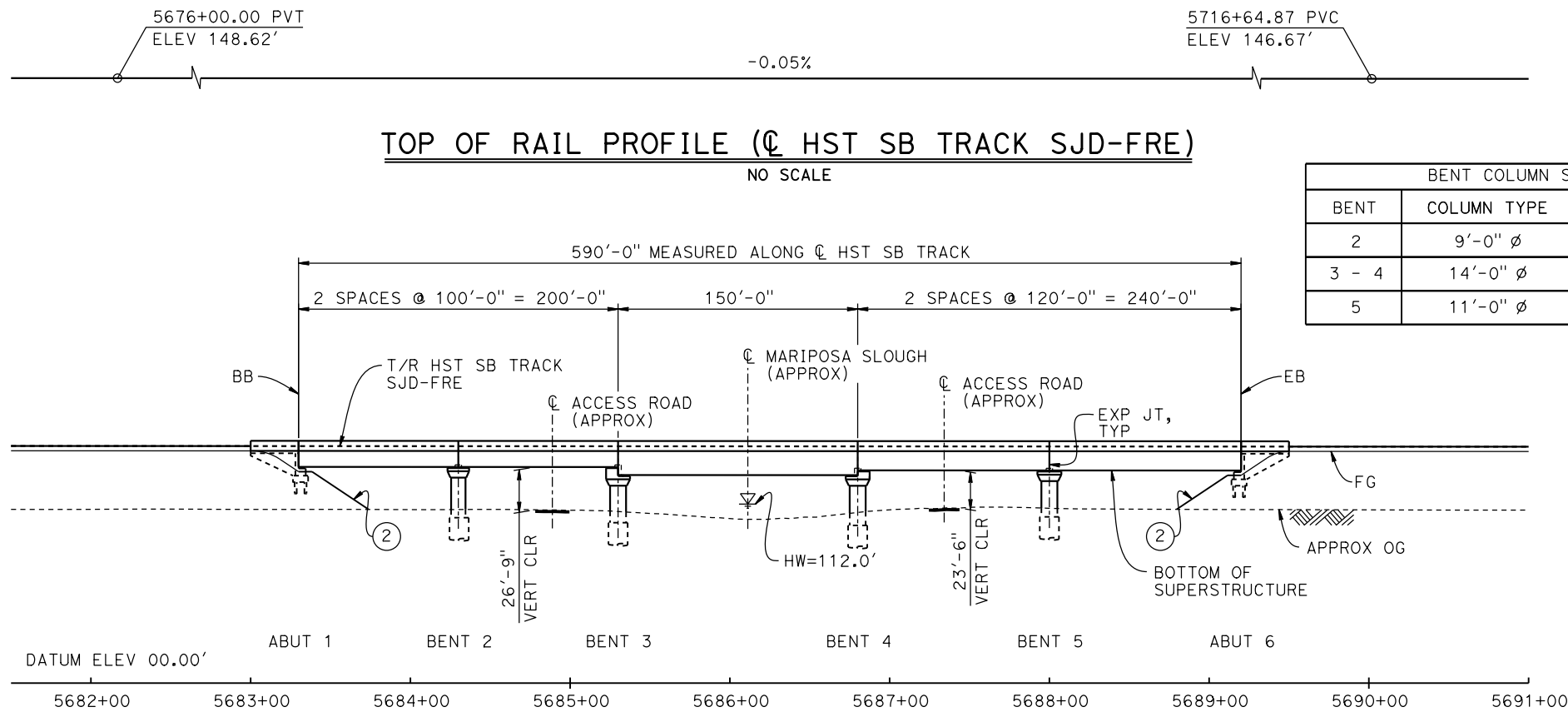
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
SAN JOAQUIN RIVER BRIDGE - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1065-D
SCALE AS SHOWN
SHEET NO.



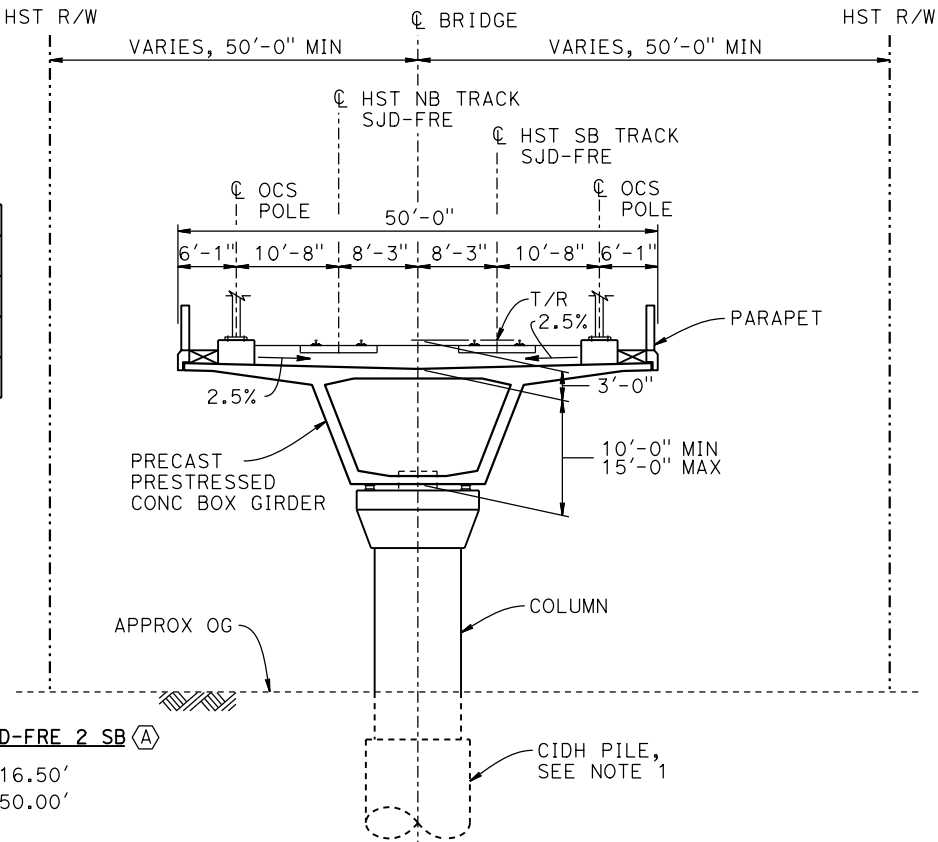
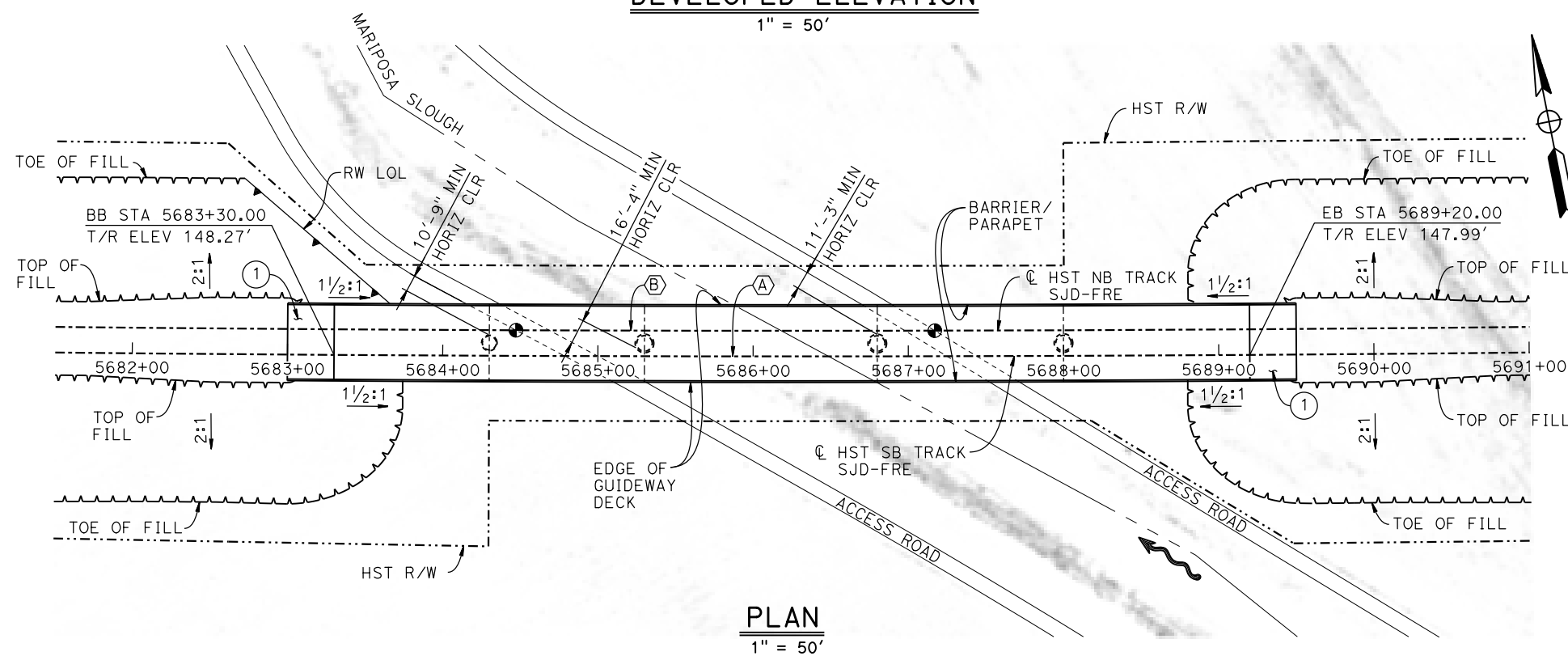
Figure 1 shows a number line from 0 to 20. The segment from 0 to 10 is divided into 10 equal parts, each labeled 1'. The segment from 10 to 20 is divided into 10 equal parts, each labeled 1''. Below the line, the text $1'' = 10'$ is written.

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3065-D
SCALE AS SHOWN
SHEET NO.



BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2	9'-0" Ø	11'-0" Ø
3 - 4	14'-0" Ø	16'-0" Ø
5	11'-0" Ø	13'-0" Ø

DEVELOPED ELEVATION
1" = 50'



CURVE SJD-FRE 2 SB (A)

R = 45,016.50'
LS = 1,550.00'

CURVE SJD-FRE 2 NB (B)

R = 45,000.00'
LS = 1,550.00'

TYPICAL SECTION
1" = 10'

NOTES:

1. 16" DIAM PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1070-D.
4. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1070-D.
5. FOR TRACK SUPERELEVATION, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0050-D AND TT-B0052-D.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

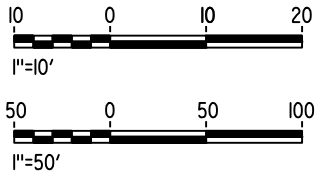
TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ACCESS ROAD	5684+85	20'X16.5'	-
ACCESS ROAD	5687+40	20'X16.5'	-

3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.



MF-ST-K1070-D.dgn

29-AUG-2016 3:33

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 09/02/2016

RECORD SET
15% DESIGN
SUBMITTAL

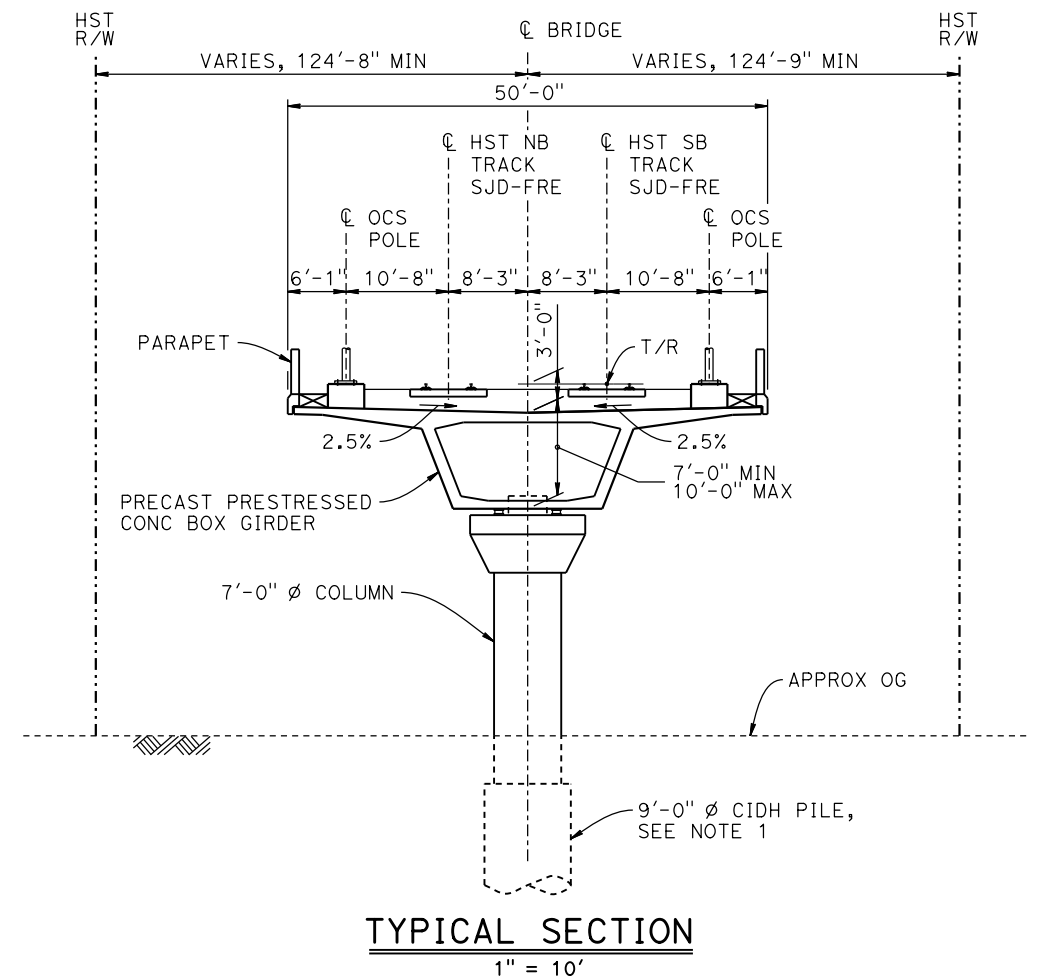
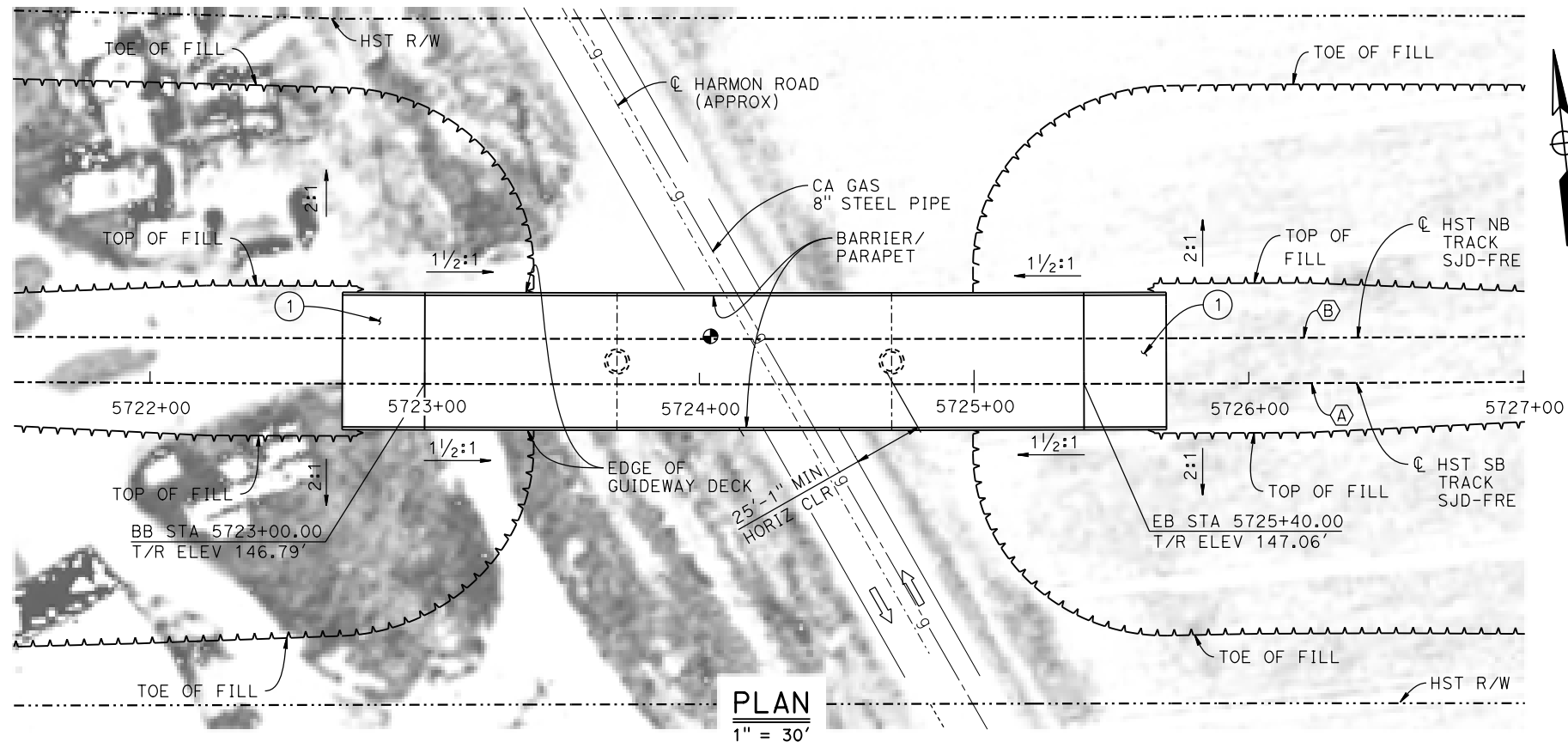
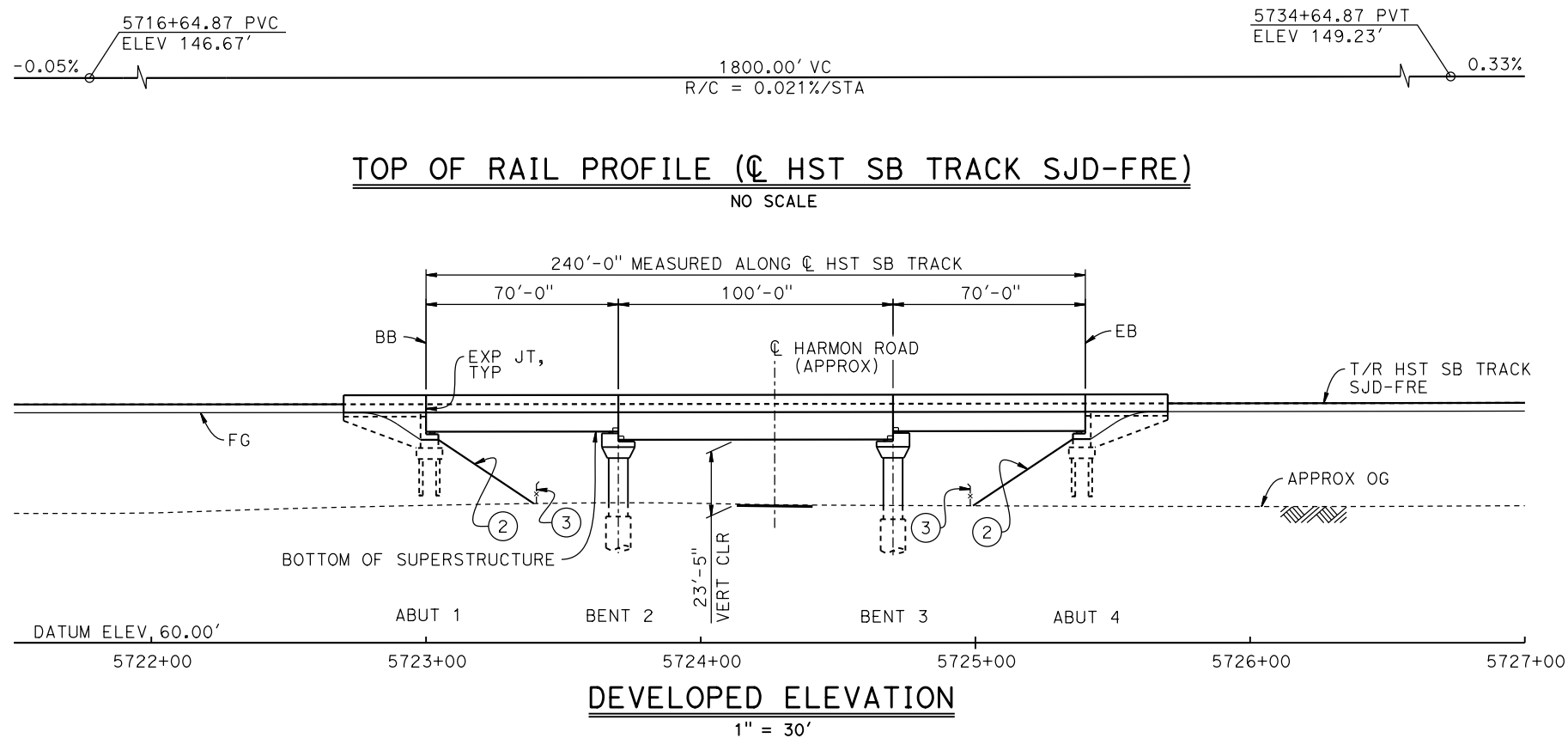
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
MARIPOSA SLOUGH BRIDGE

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1070-D
SCALE AS SHOWN
SHEET NO.



LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)
- ③ AR FENCE, SEE TRACK PLANS; DRAWING TT-B0020-D

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1070-D.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR TRACK SUPERELEVATION, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0050-D AND TT-B0052-D.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

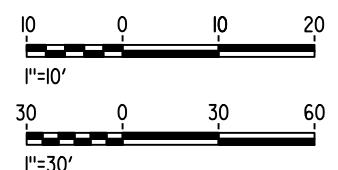
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
HARMON RD	5724+27	32'x16.5'	2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

CURVE SJD-FRE 2 SB (A)

R = 45,016.50'
LS = 1,550.00'

CURVE SJD-FRE 2 NB (B)

R = 45,000.00'
LS = 1,550.00'



MF-ST-K1075-D.dgn

15-AUG-2016 8:28

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

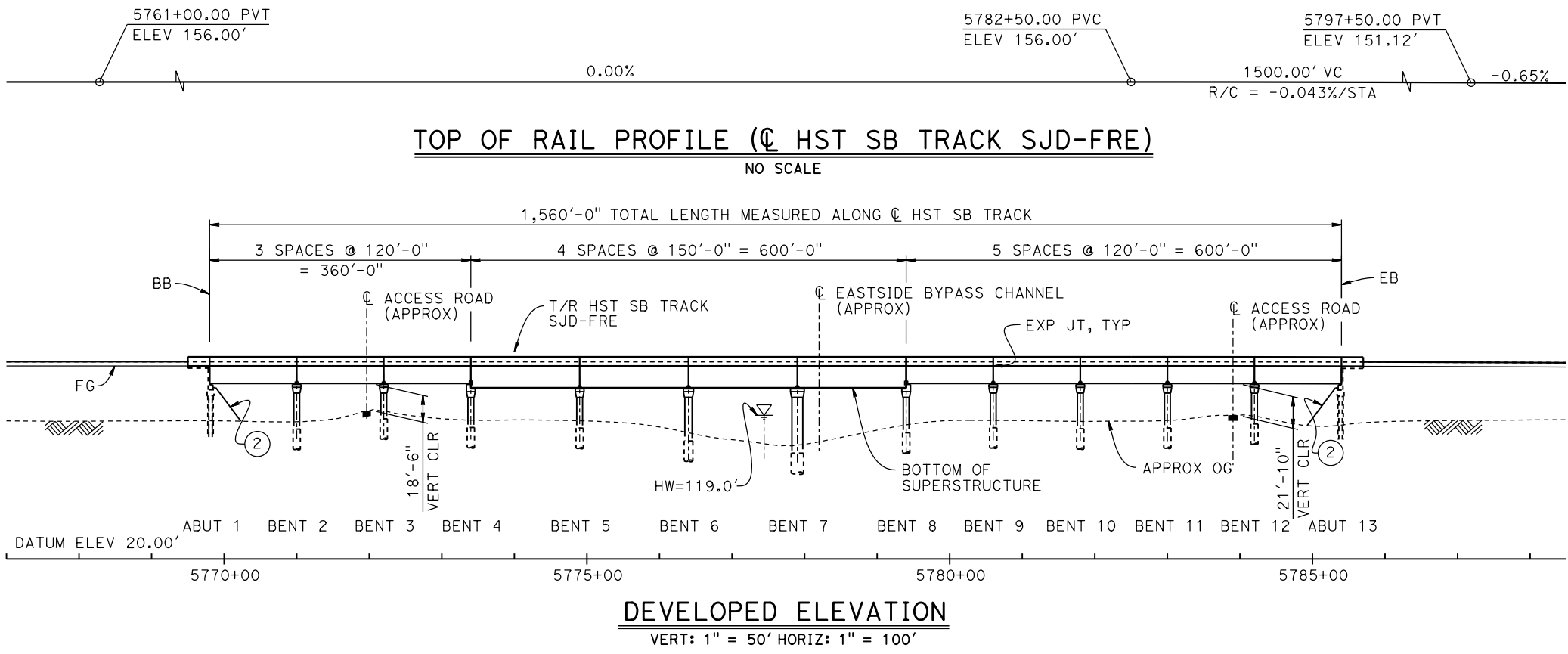
**NOT FOR
CONSTRUCTION**



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

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
HARMON ROAD UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1075-D
SCALE AS SHOWN
SHEET NO.



LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

CURVE SJD-FRE 2 SB (A)	CURVE SJD-FRE 2 NB (B)
R = 45,016.50'	R = 45,000.00'
LS = 1,550.00'	LS = 1,550.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

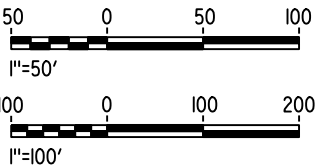
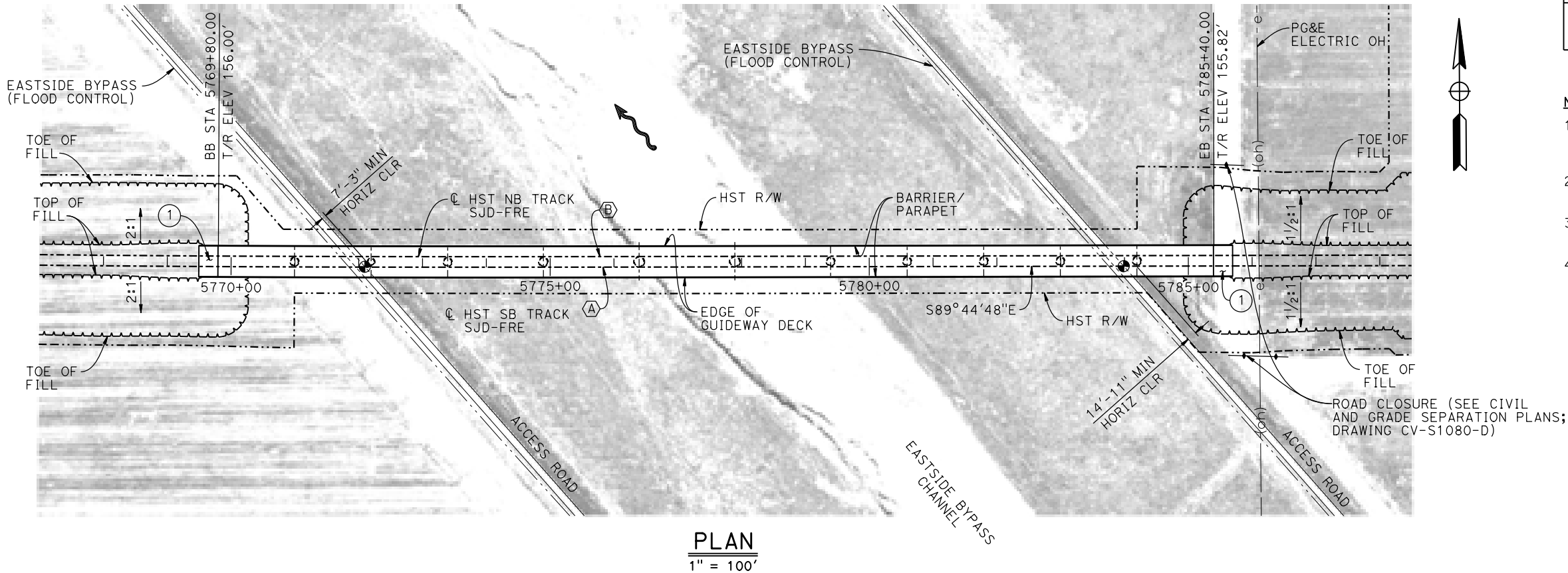
- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ACCESS ROAD	5772+00	20'X16.5'	-
ACCESS ROAD	5783+90	20'X16.5'	-

- TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3080-D.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH THE NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1080-D.



MF-ST-K1080-D.dgn
29-AUG-2016 2:09
p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 09/02/2016

RECORD SET
15% DESIGN
SUBMITTAL

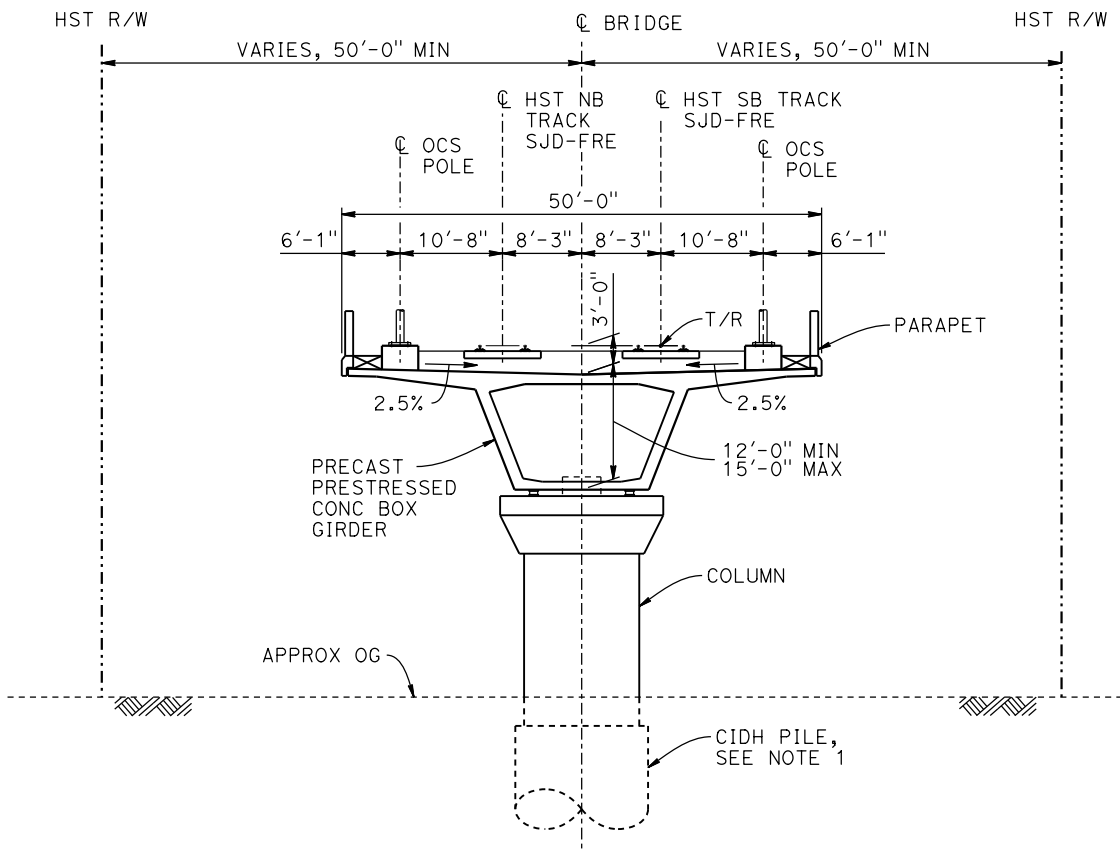
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1080-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:47 MF-ST-K3080-D.dgn



TYPICAL SECTION
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH
2	10'-0" ∅	12'-0" ∅
3	9'-0" ∅	11'-0" ∅
4-5	10'-0" ∅	12'-0" ∅
6	11'-0" ∅	13'-0" ∅
7	13'-0" ∅	15'-0" ∅
8-10	10'-0" ∅	12'-0" ∅
11-12	9'-0" ∅	11'-0" ∅

- NOTES:**
1. PILE LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0050-D AND TT-B0052-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

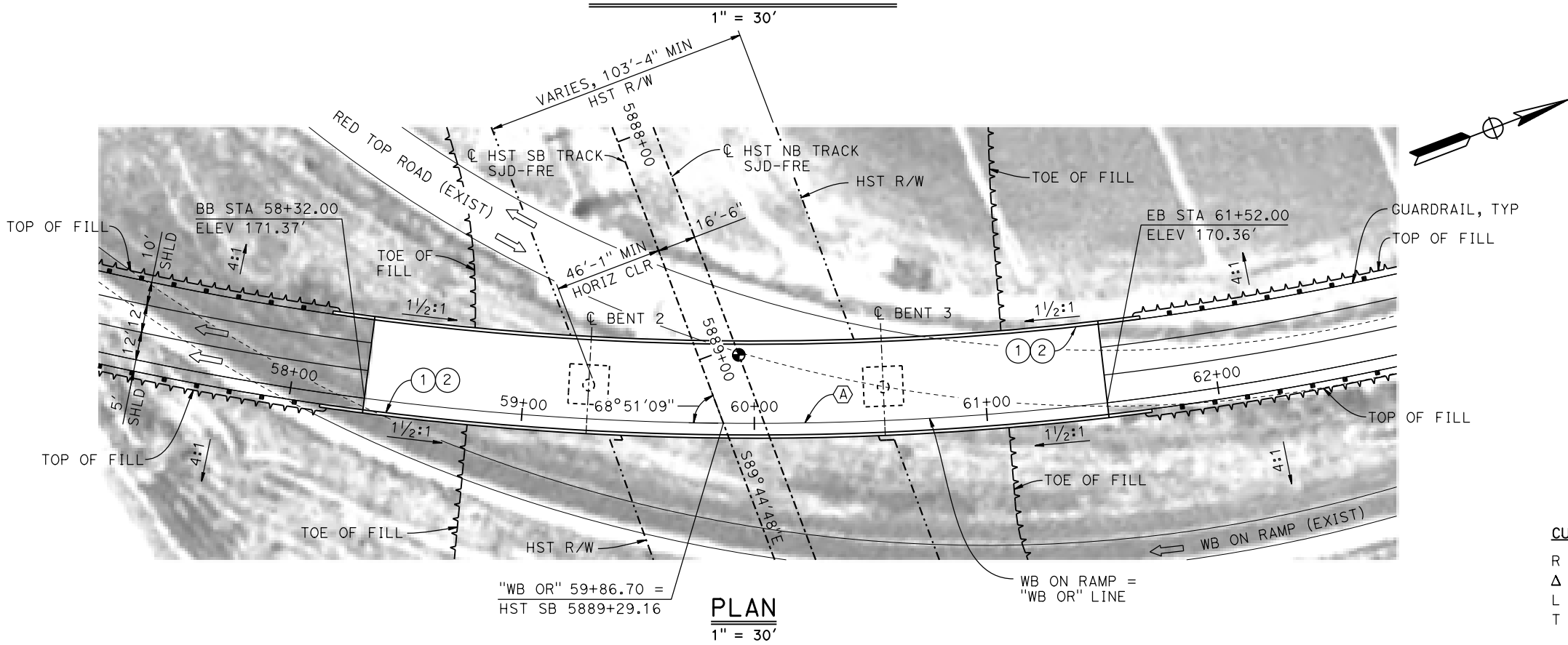
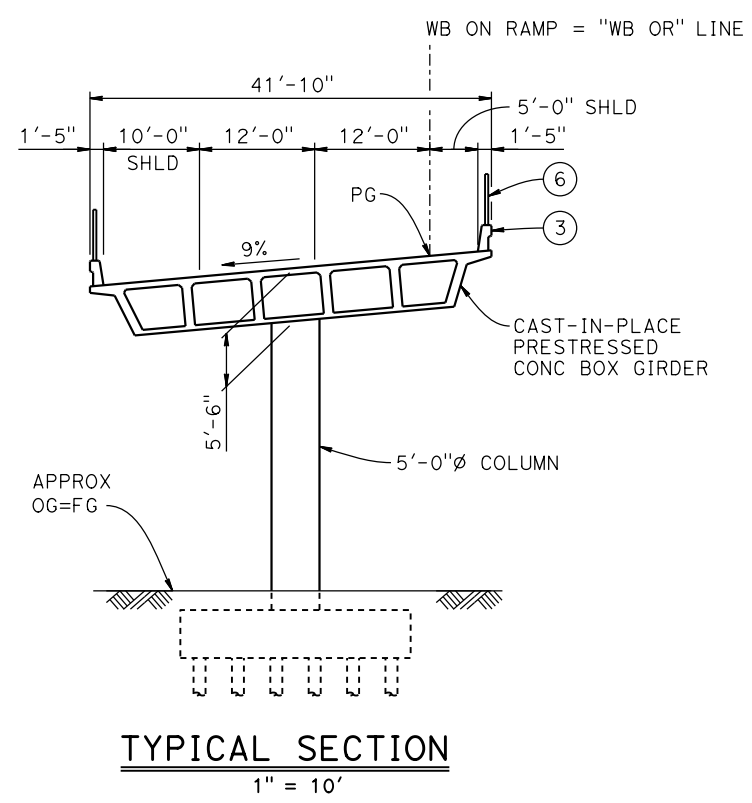
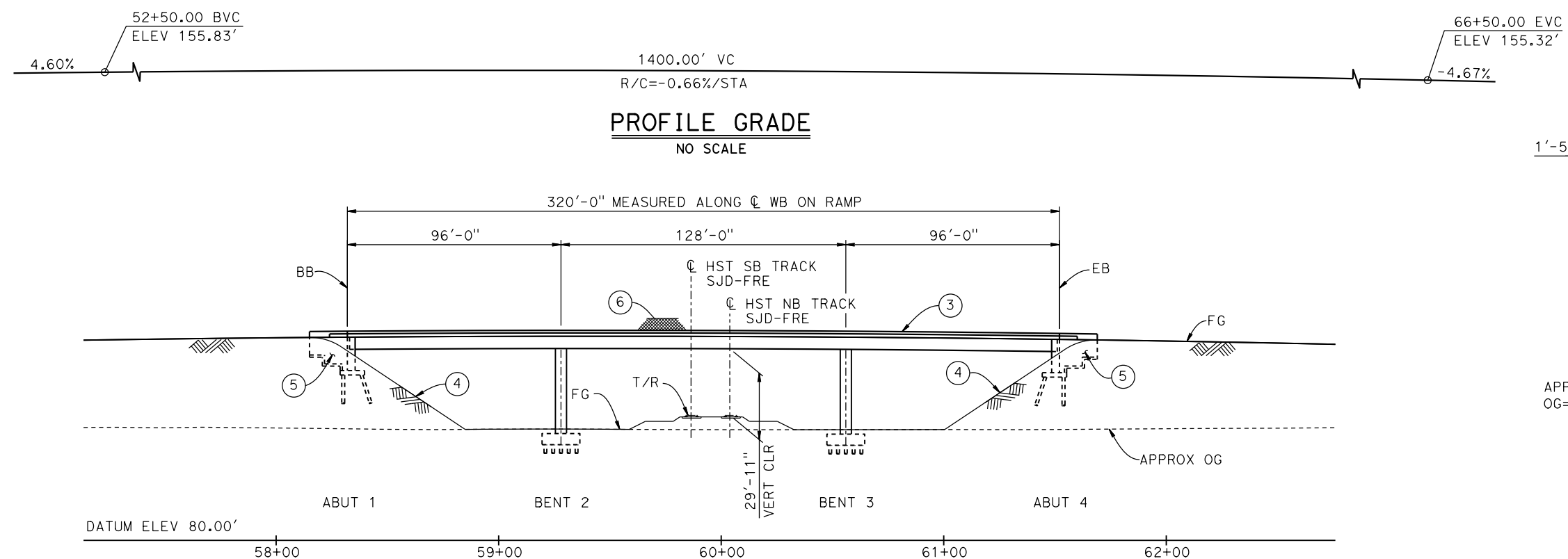
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3080-D
SCALE AS SHOWN
SHEET NO.

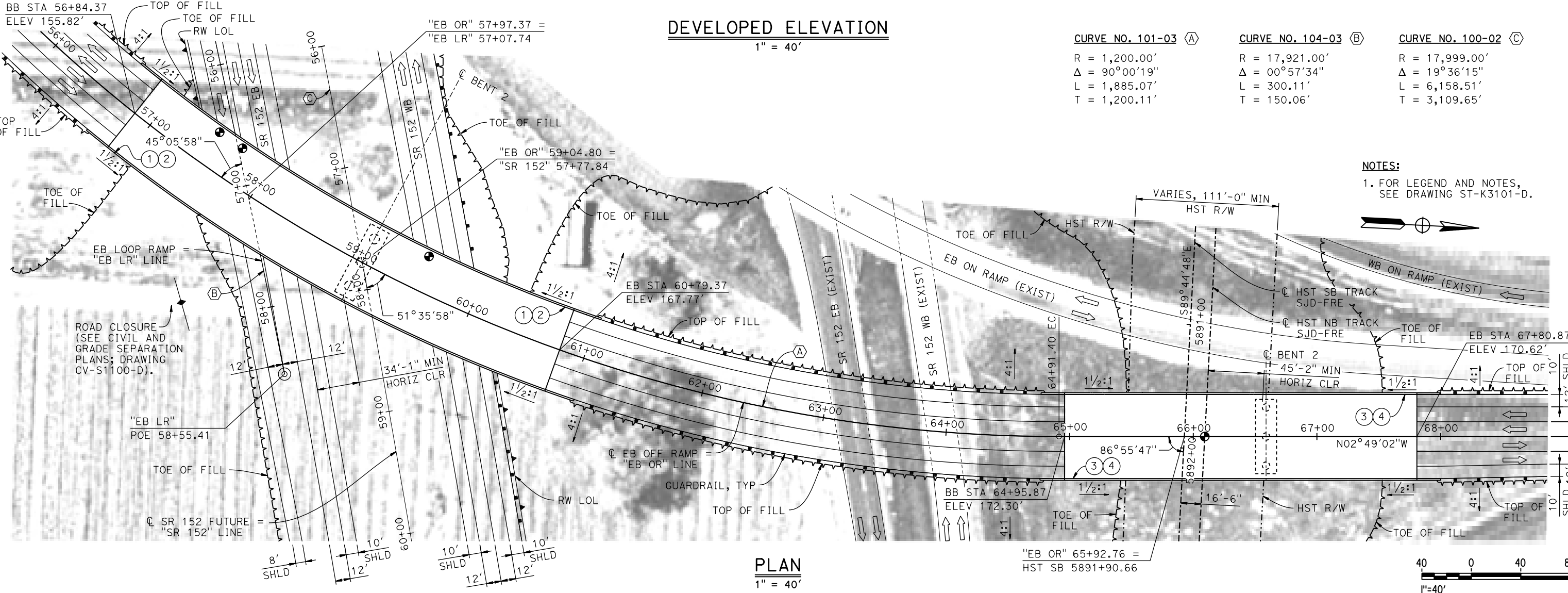
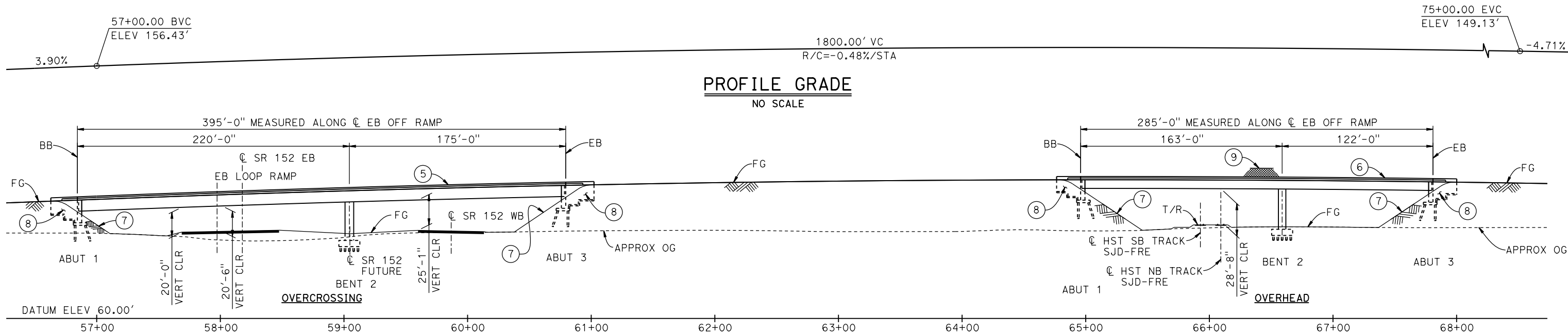


- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ⇒ INDICATES DIRECTION OF TRAFFIC
 - ① PAINT "WB ON RAMP OVERHEAD"
 - ② PAINT "BRIDGE NO. XX-XXXX"
 - ③ CONCRETE BARRIER TYPE 742 MOD
 - ④ SLOPE PAVING (1½H:1V)
 - ⑤ WINGWALL
 - ⑥ AR FENCE WITH SOLID PLATE
- NOTES:**
- 16" Ø PIPE PILES ASSUMED AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-D.
 - FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-D.



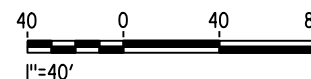
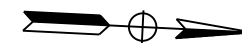
MF-ST-K1100-D.dgn
16-AUG-2016 17:04
p005133g

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CURVE NO. 101-03 (A)	CURVE NO. 104-03 (B)	CURVE NO. 100-02 (C)
R = 1,200.00'	R = 17,921.00'	R = 17,999.00'
$\Delta = 90^{\circ}00'19''$	$\Delta = 00^{\circ}57'34''$	$\Delta = 19^{\circ}36'15''$
L = 1,885.07'	L = 300.11'	L = 6,158.51'
T = 1,200.11'	T = 150.06'	T = 3,109.65'

NOTES:
1. FOR LEGEND AND NOTES, SEE DRAWING ST-K3101-D.



MF-ST-K1101-D.dgn

15-AUG-2016 8:29

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

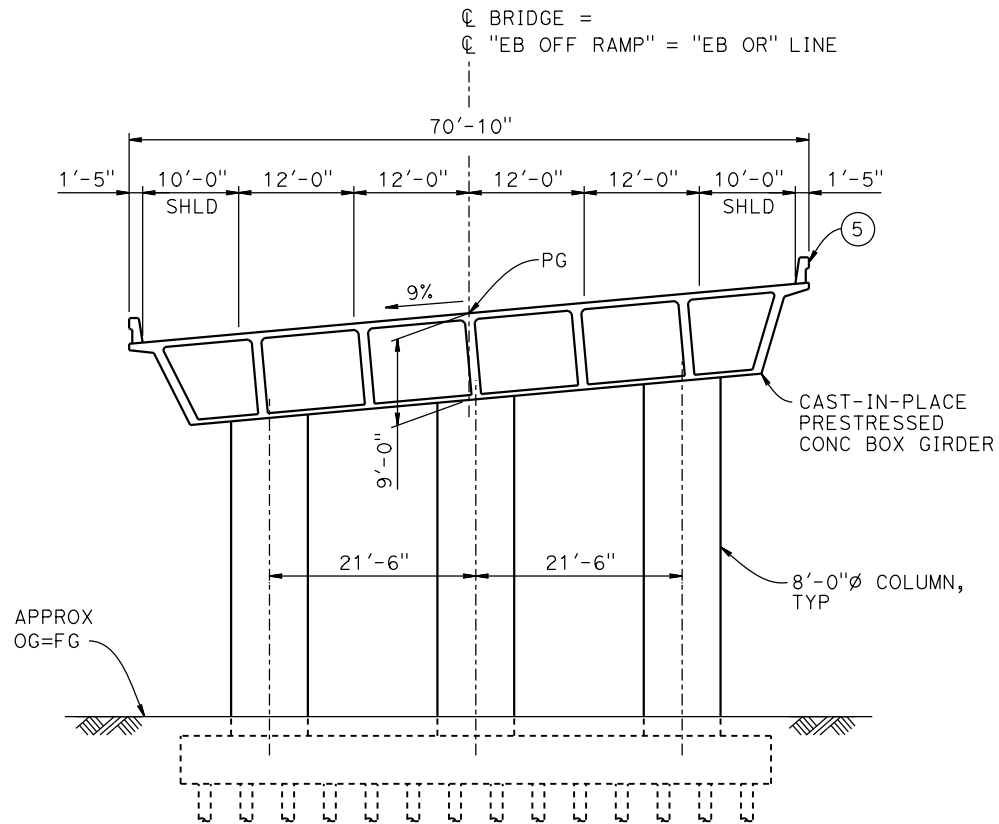


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

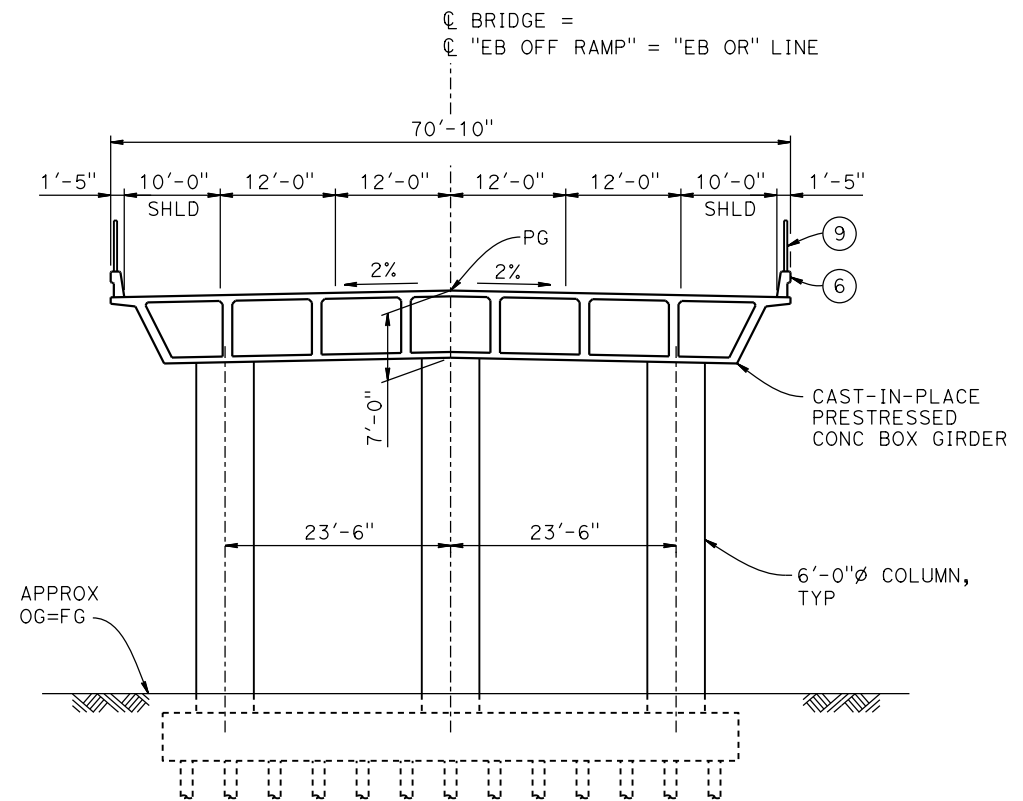
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
SR 59 / SR 152 INTERCHANGE - 2 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1101-D
SCALE AS SHOWN
SHEET NO.

15-AUG-2016 8:48 MF-ST-K3101-D .dgn



TYPICAL SECTION AT OVERCROSSING
1" = 10'



TYPICAL SECTION AT OVERHEAD
1" = 10'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. _ TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <input checked="" type="checkbox"/> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
SR 152	57+97	40'X16.5'	E BND
SR 152	59+88	40'X16.5'	W BND
3. _ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇒ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "EB OFF RAMP OVERCROSSING"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ PAINT "EB OFF RAMP OVERHEAD"
- ④ PAINT "BRIDGE NO. XX-XXXX"
- ⑤ CONCRETE BARRIER TYPE 742
- ⑥ CONCRETE BARRIER TYPE 736 MOD
- ⑦ SLOPE PAVING (1½H:1V)
- ⑧ WINGWALL
- ⑨ AR FENCE WITH SOLID PLATE

NOTES:

- 16" Ø PIPE PILES ASSUMED AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-D.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

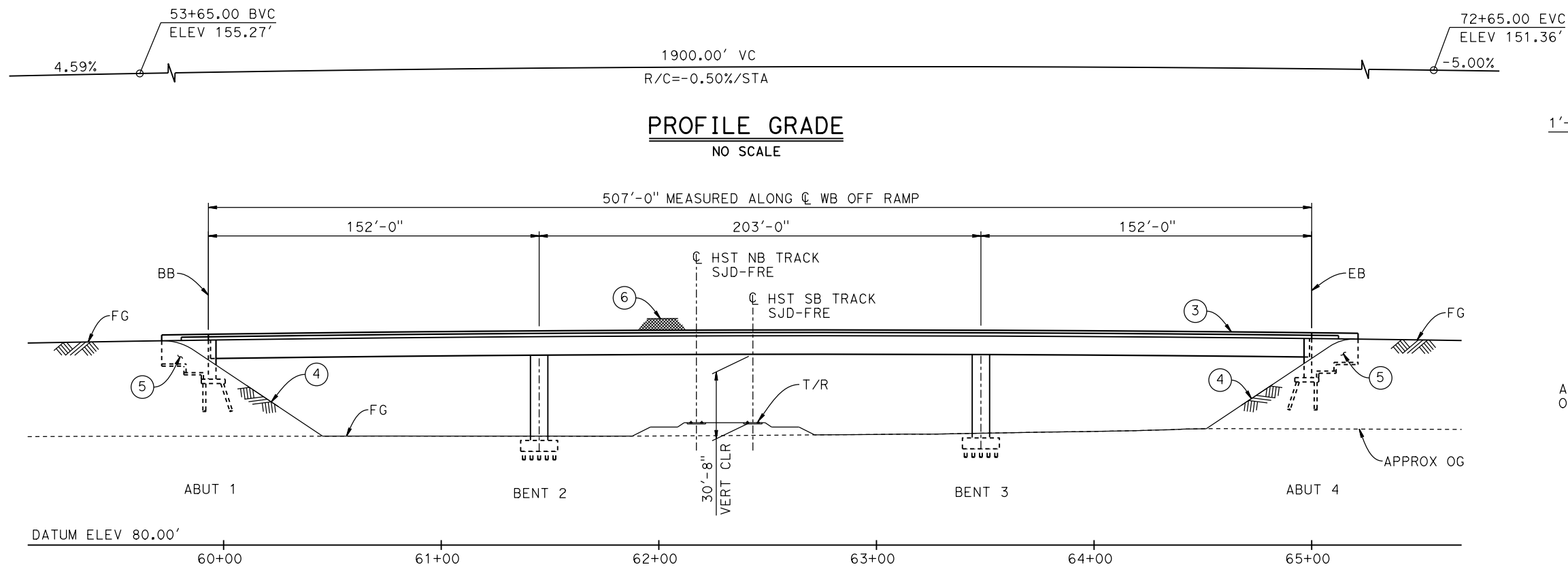
NOT FOR
CONSTRUCTION



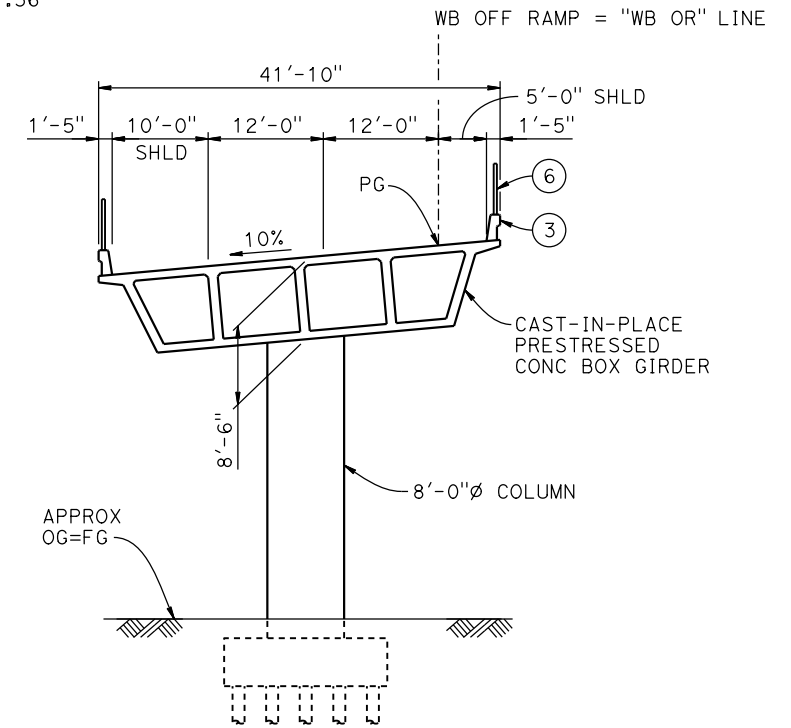
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
SR 59 / SR 152 INTERCHANGE - 3 OF 4

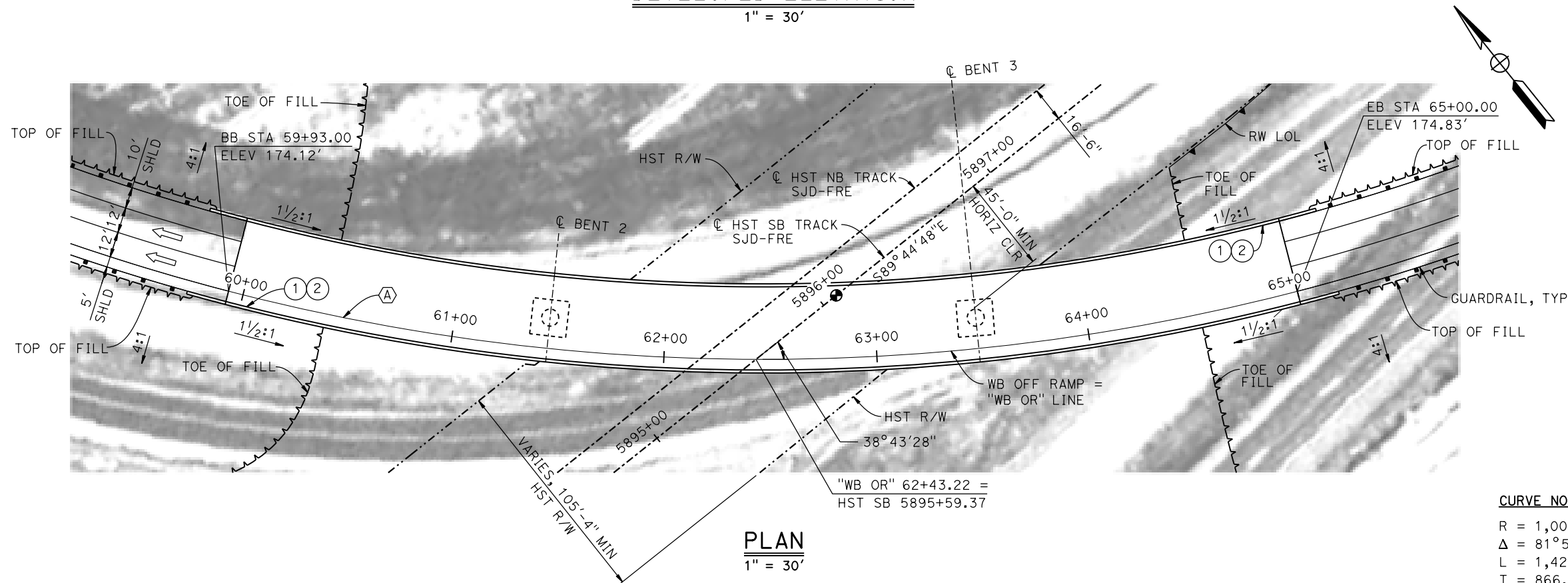
CONTRACT NO. HSR08-05
DRAWING NO. ST-K3101-D
SCALE AS SHOWN
SHEET NO.



DEVELOPED ELEVATION
1" = 30'



TYPICAL SECTION
1" = 10'



LEGEND:

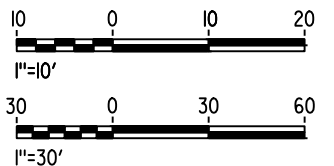
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "WB OFF RAMP OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 742 MOD
- ④ SLOPE PAVING (1 1/2H:1V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

- 16" Ø PIPE PILES ASSUMED AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-D.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-D.

CURVE NO. 103-02 (A)

R = 1,000.00'
Δ = 81°50'34"
L = 1,428.42'
T = 866.88'



MF-ST-K1102-D.dgn

15-AUG-2016 8:29

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

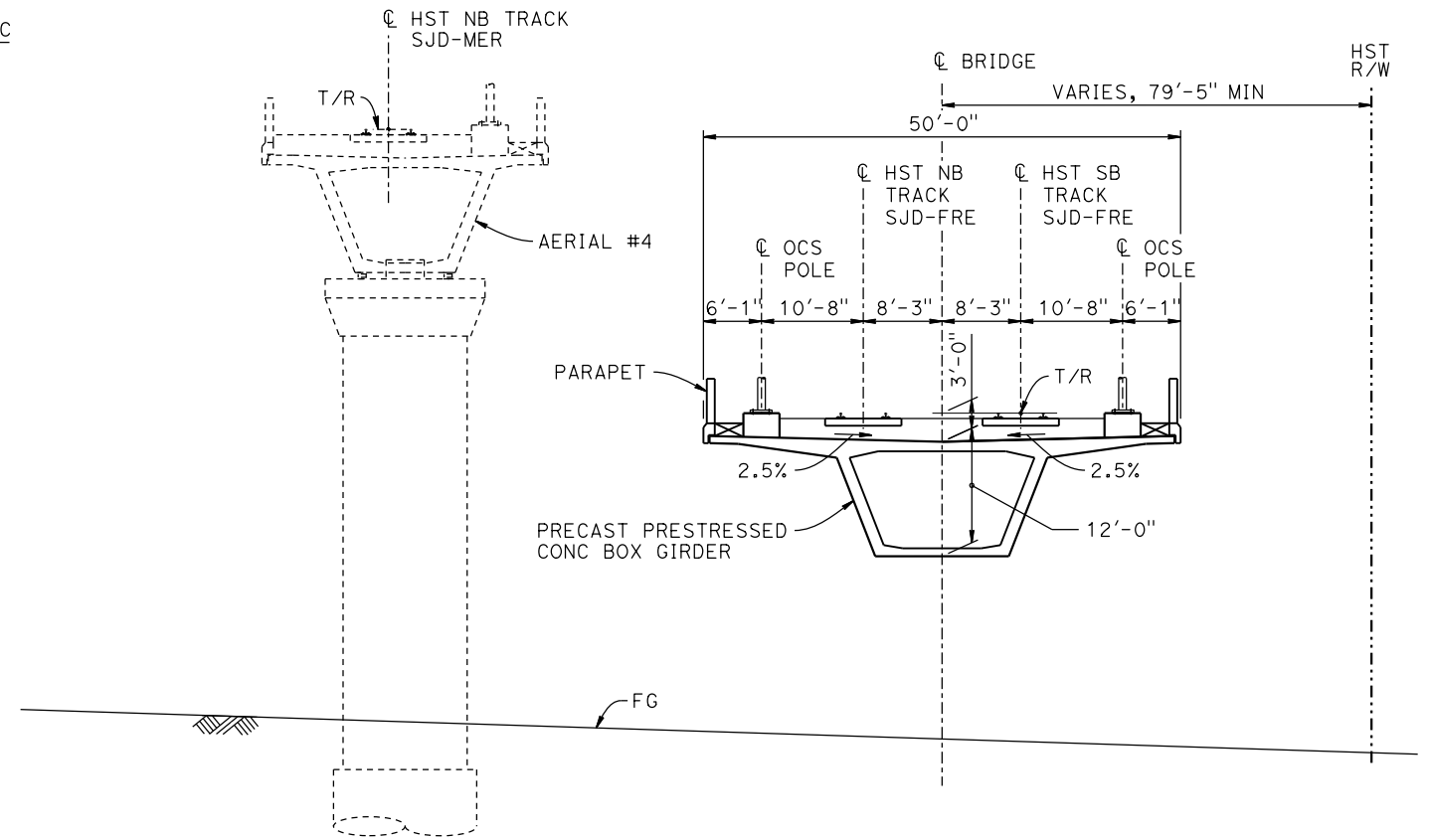
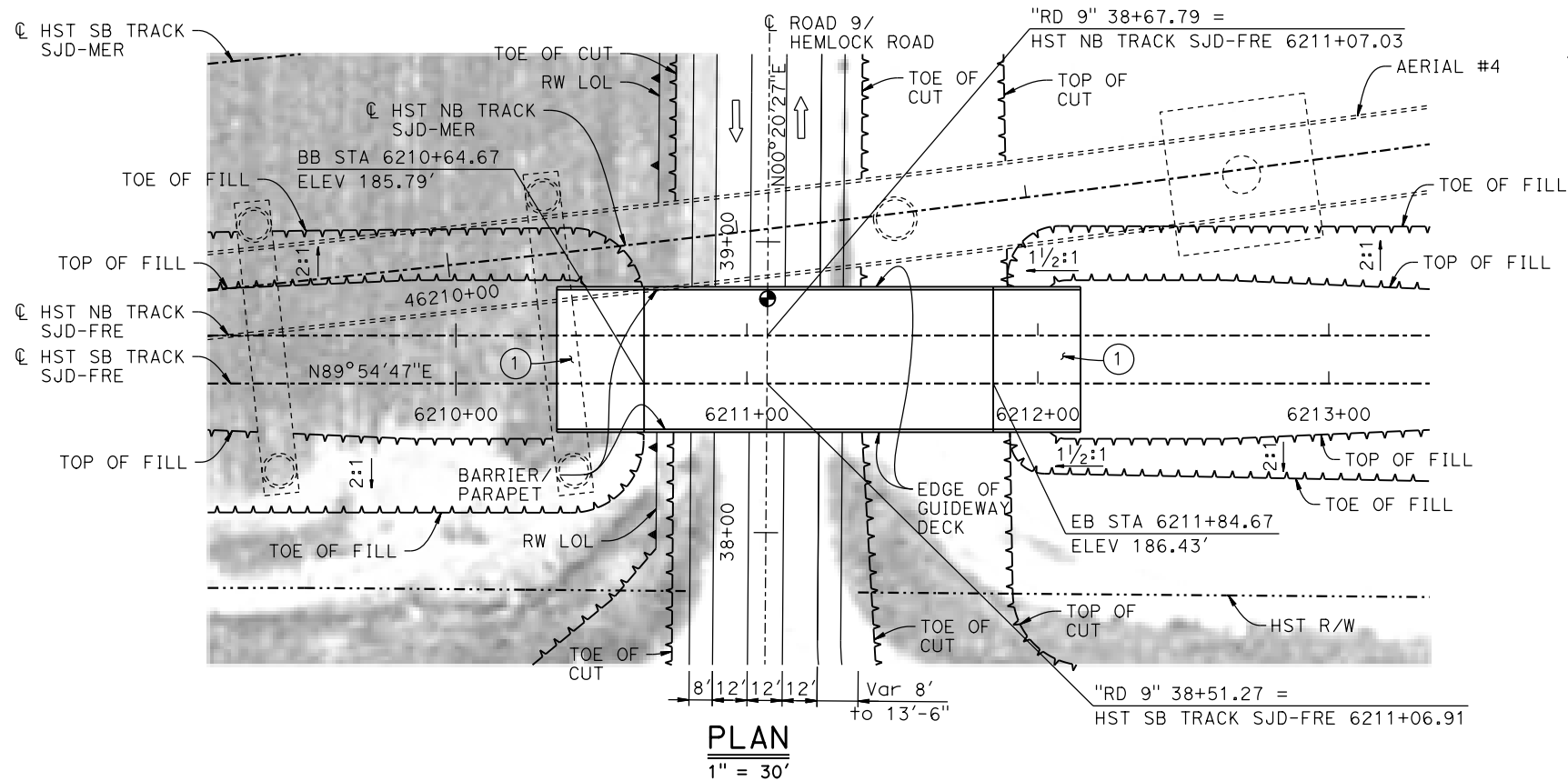
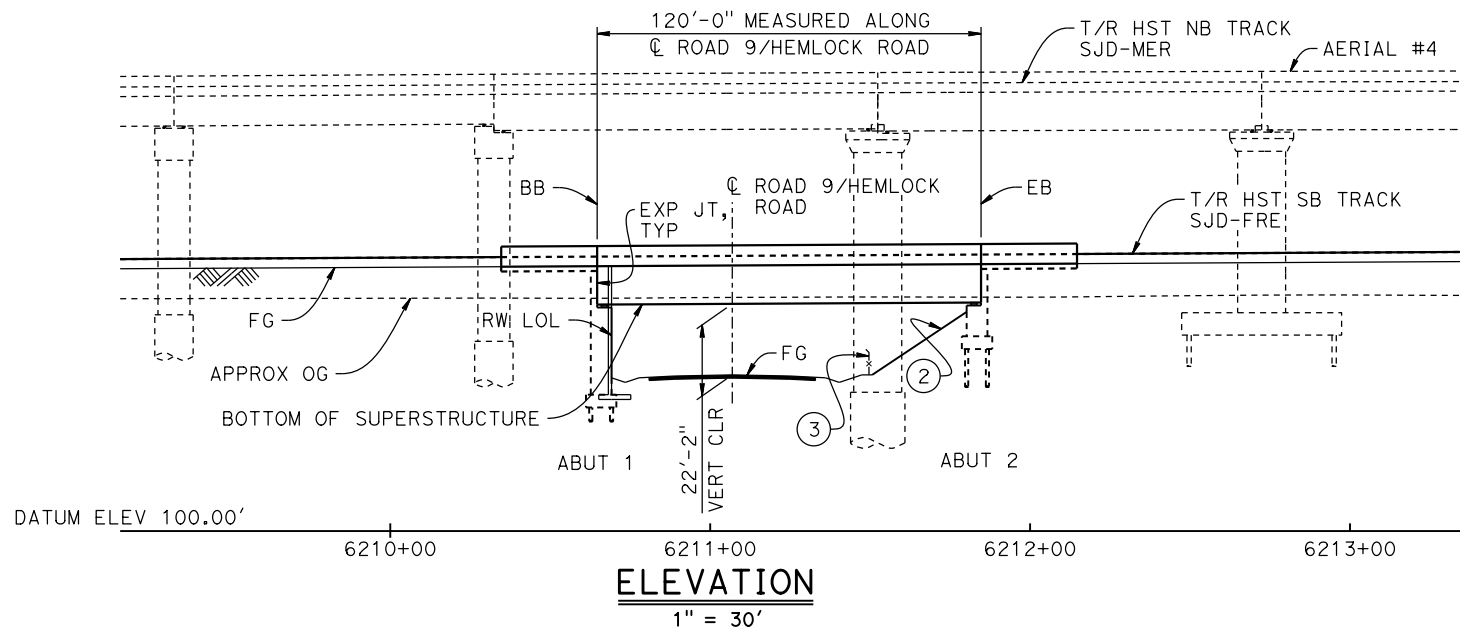
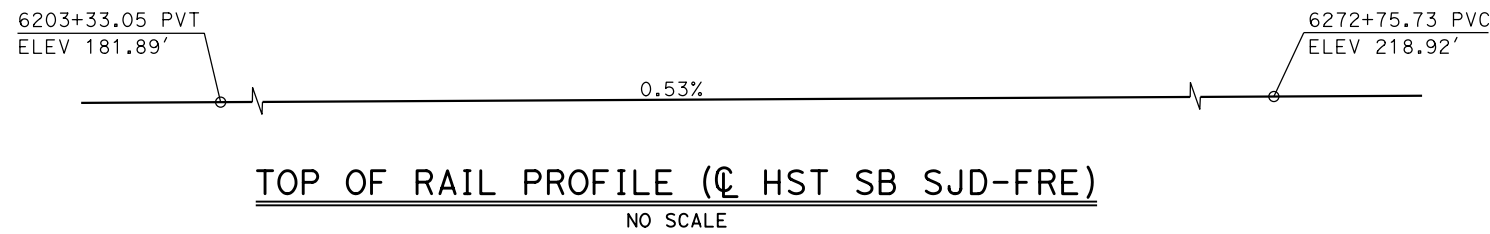


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
SR 59 / SR 152 INTERCHANGE - 4 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1102-D
SCALE AS SHOWN
SHEET NO.



TYPICAL SECTION
1" = 10'

LEGEND:

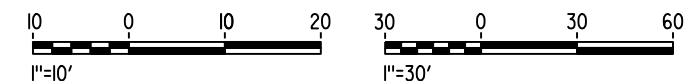
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)
- ③ AR FENCE, SEE TRACK PLANS; DRAWING TT-B0020-D.

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-D.
- FOR AERIAL #4 GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1610-D TO ST-K1612-D AND ST-K3610-D TO ST-K3611-D.
- FOR SJD-MER SB BRIDGE GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1620-D.
- FOR RETAINING WALLS, SEE CIVIL & GRADE SEPARATION PLANS; DRAWING CV-R1160-D.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. <u>X</u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
HEMLOCK RD	6211+07	32'x16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



16-AUG-2016 7:05 MF-ST-K1160-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

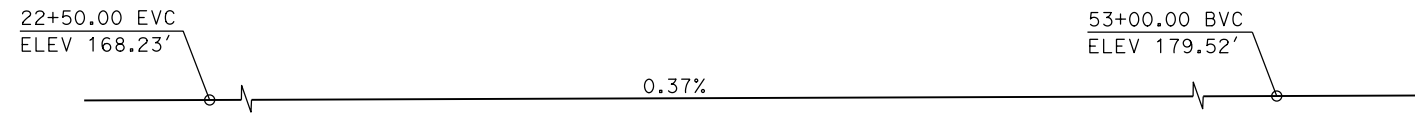
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

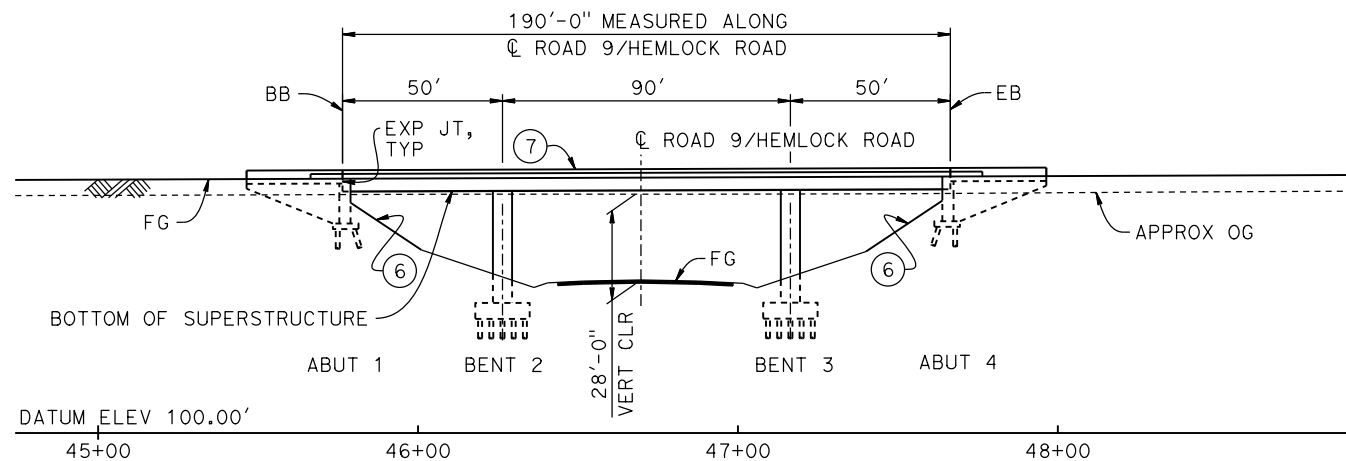


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
HEMLOCK ROAD (ROAD 9) UNDERPASS

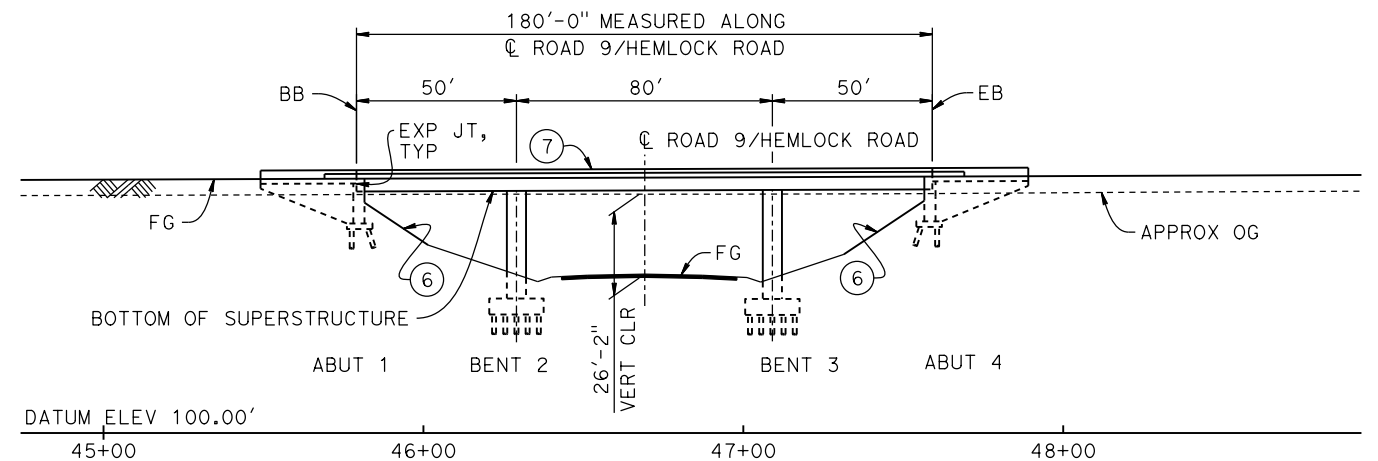
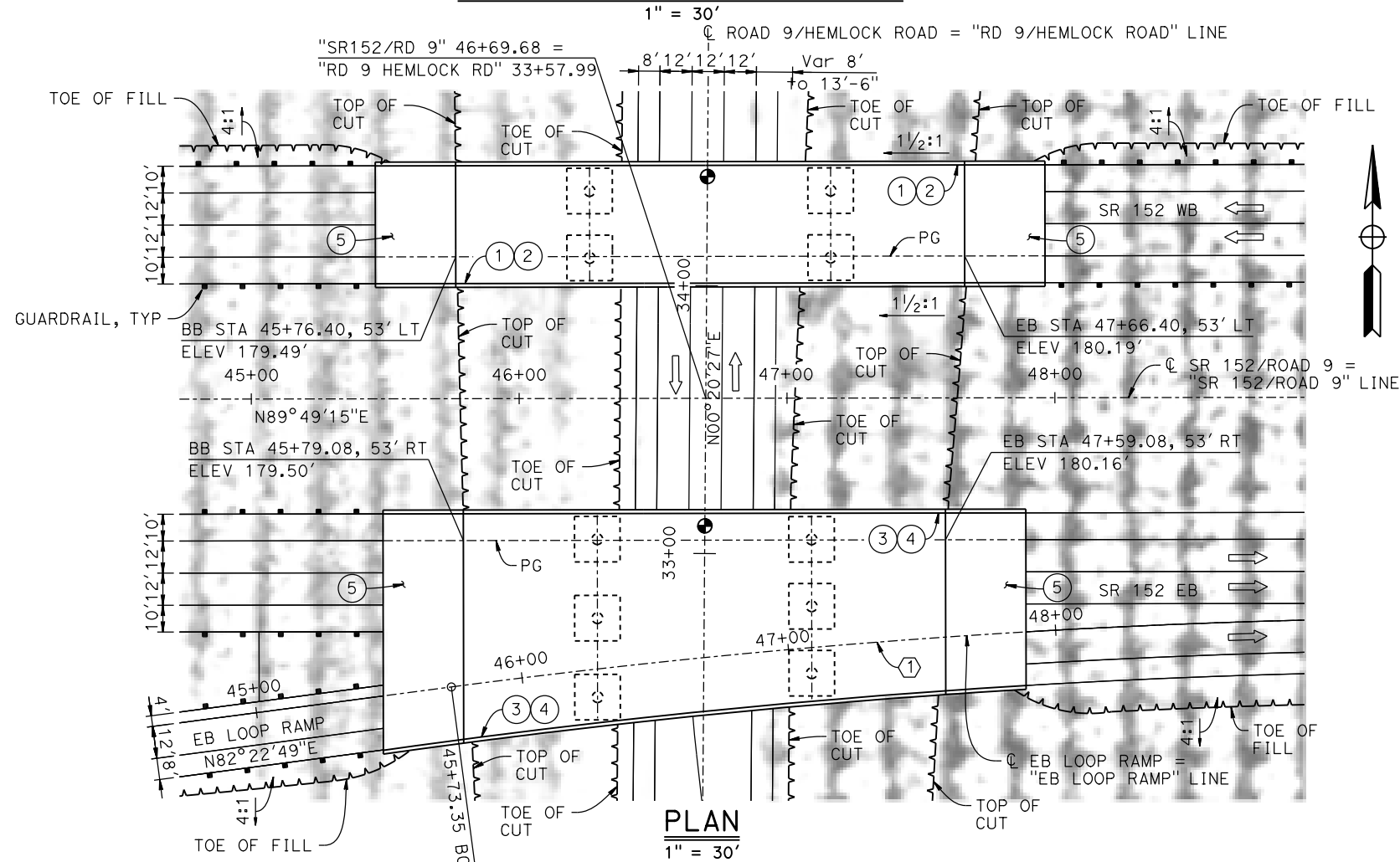
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1160-D
SCALE AS SHOWN
SHEET NO.



PROFILE GRADE (CL SR 152/ROAD 9)
NO SCALE



ELEVATION (PG SR 152 WB)
1" = 30'



ELEVATION (PG SR 152 EB)
1" = 30'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- PAINT "OVERCROSSING"
- PAINT "BRIDGE NO. XX-XXXX"
- PAINT "OVERCROSSING"
- PAINT "BRIDGE NO. XX-XXXX"
- STRUCTURE APPROACH
- SLOPE PAVING (1 1/2 H:1 V)
- CONCRETE BARRIER TYPE 732

NOTES:

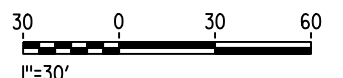
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-D.
- FOR SECTIONS, SEE DRAWING ST-K3161-D.

CURVE DATA (1)

R = 3000.00'
Δ = 06°17'42"
L = 329.61'
T = 169.70'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. X TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. _ TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
HEMLOCK RD	46+70	32'x16.5'	2-WAY
3. _ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



15-AUG-2016 8:30 MF-ST-K1161-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

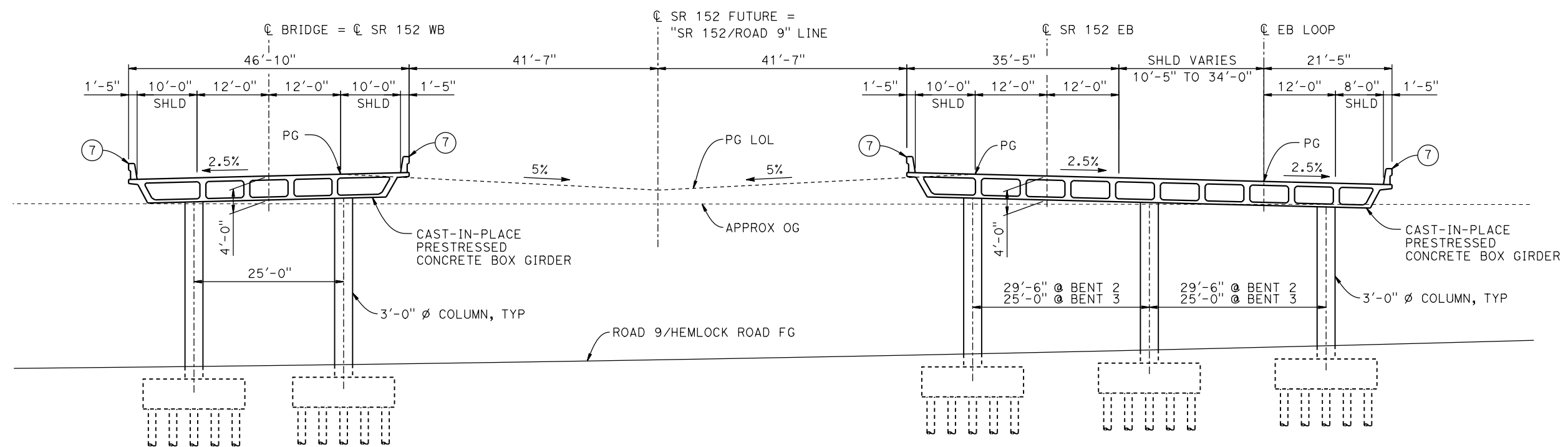
DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION



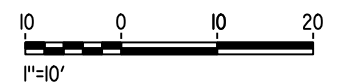
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
HEMLOCK ROAD (ROAD 9) INTERCHANGE - 1 OF 2

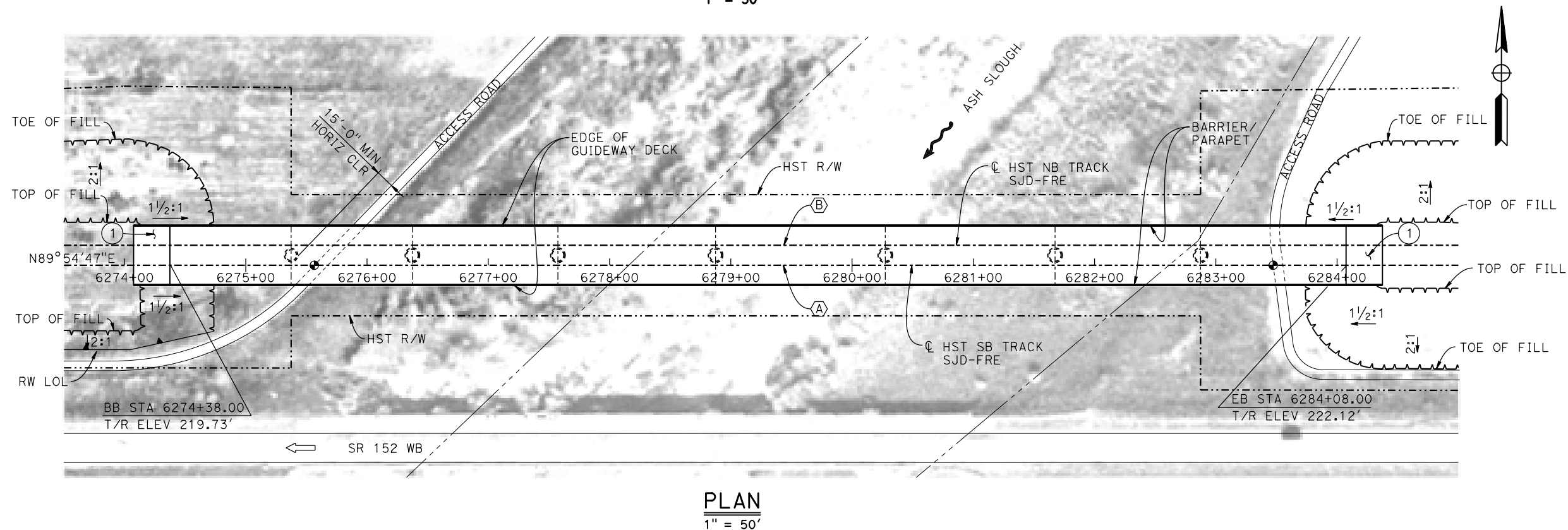
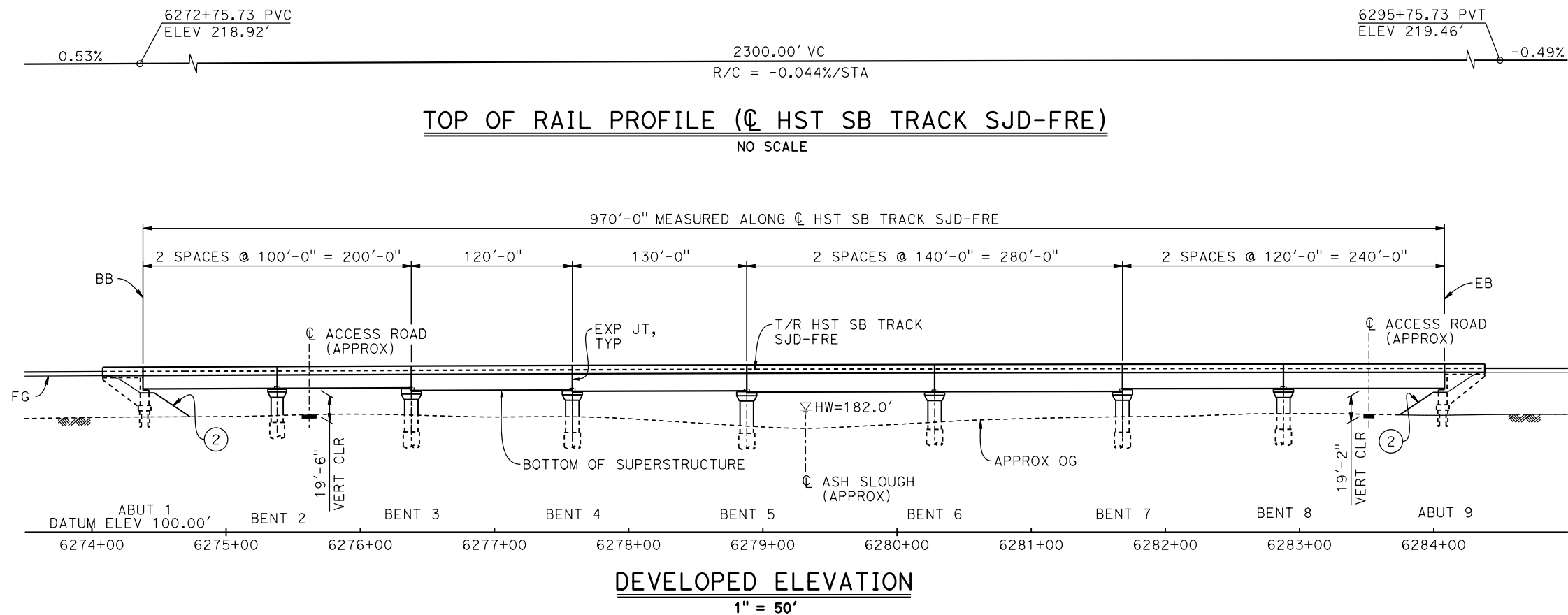
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1161-D
SCALE AS SHOWN
SHEET NO.



NOTES:

1. FOR NOTES AND LEGEND, SEE DRAWING ST-K1161-D.

[illegible]



TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ACCESS ROAD	6275+62	20'X16.5'	-
ACCESS ROAD	6283+62	20'X16.5'	-
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ➡ INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

NOTES:

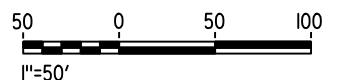
1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR TYPICAL SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3170-D.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1170-D.
5. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1170-D.

CURVE SJD-FRE 4 SB (A)

R = 325,016.50'
LS = 1,150.00'

CURVE SJD-FRE 4 NB (B)

R = 325,000.00'
LS = 1,150.00'



MF-ST-K1170-D.dgn

15-AUG-2016 8:31

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

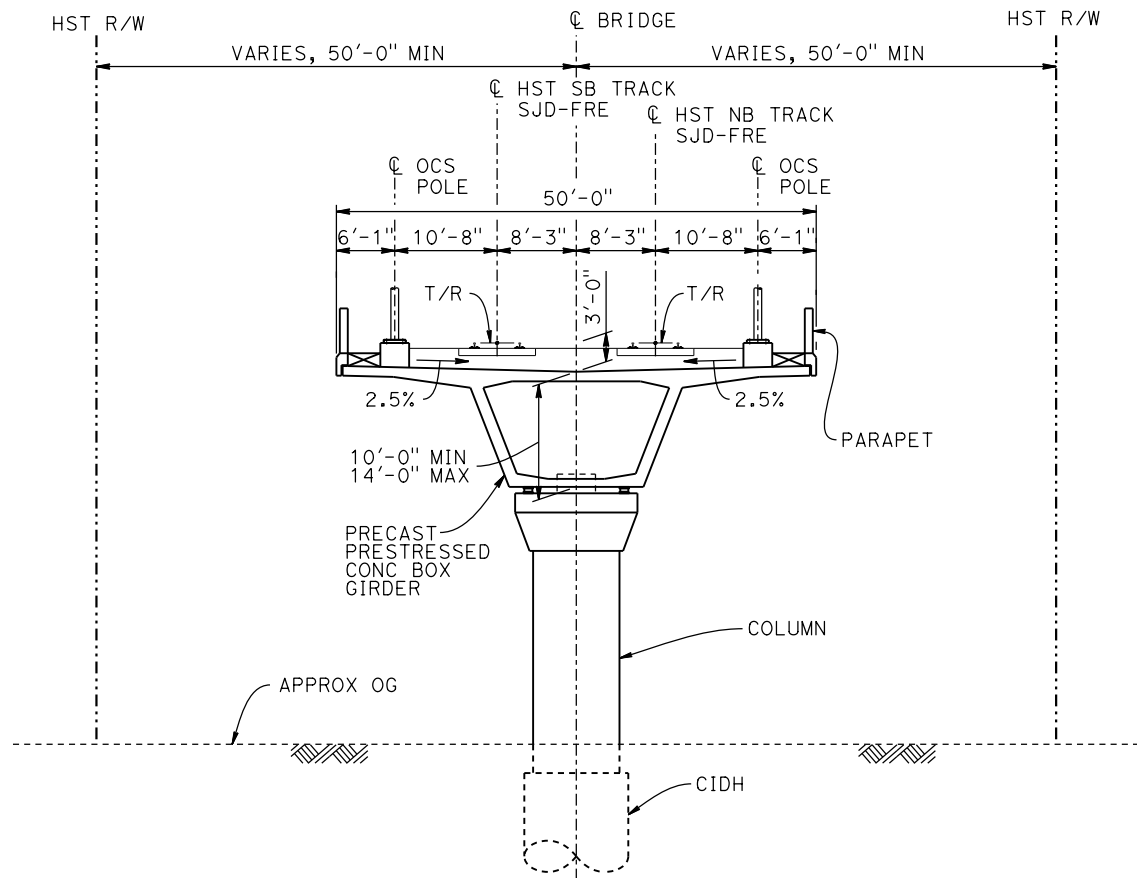


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ASH SLOUGH BRIDGE - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1170-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:48 MF-ST-K3170-D.dgn



TYPICAL SECTION
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH
2	9'-0" ϕ	11'-0" ϕ
3 - 8	10'-0" ϕ	12'-0" ϕ

- NOTES:**
1. DRILLED SHAFT LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0051-D AND TT-B0053-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
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IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

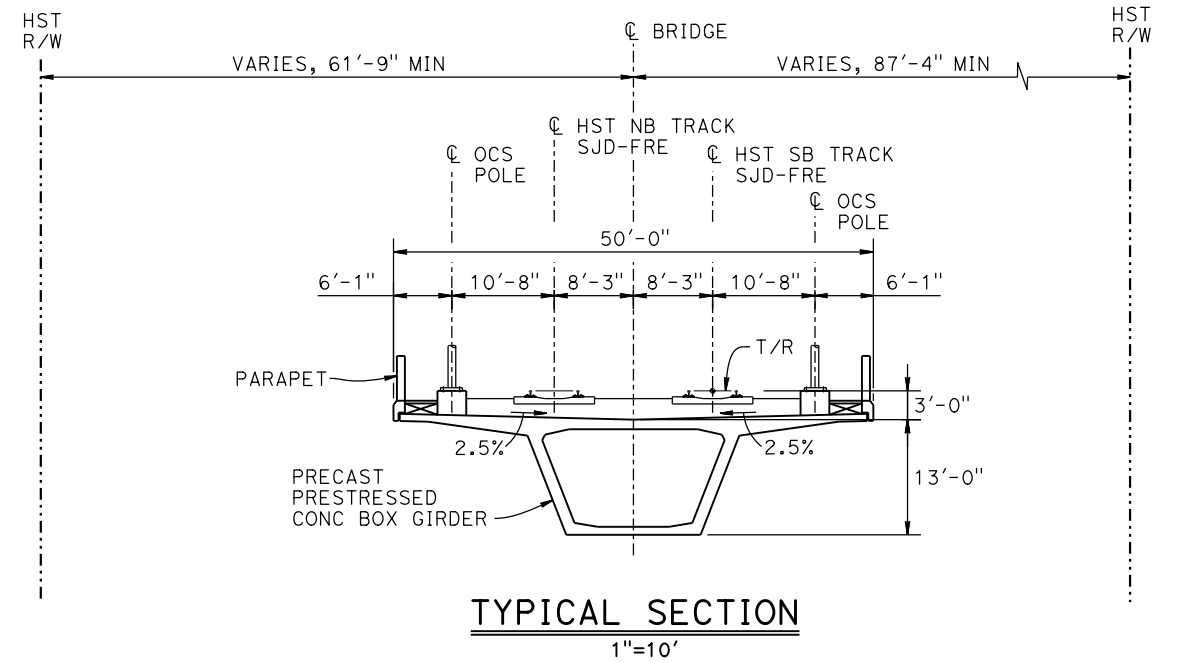
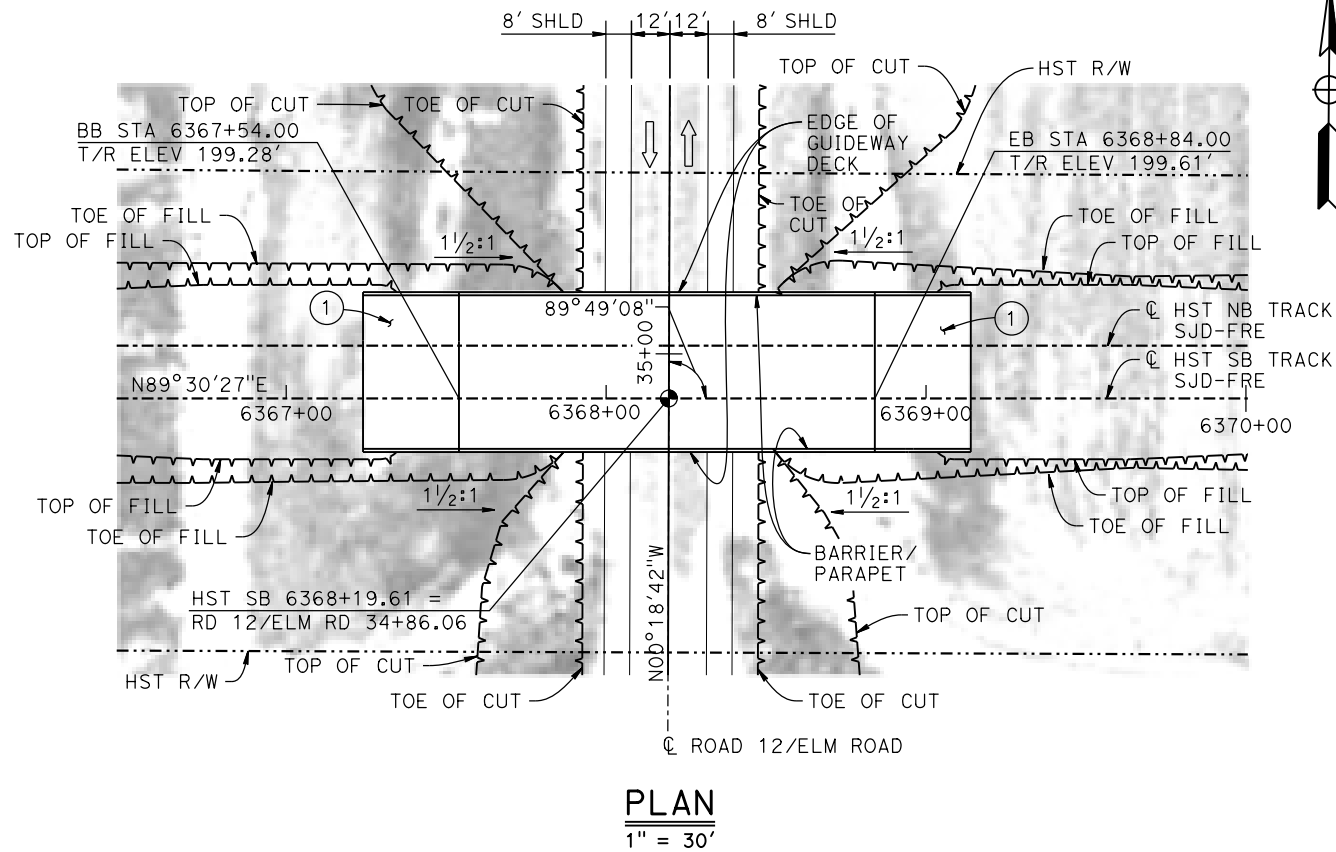
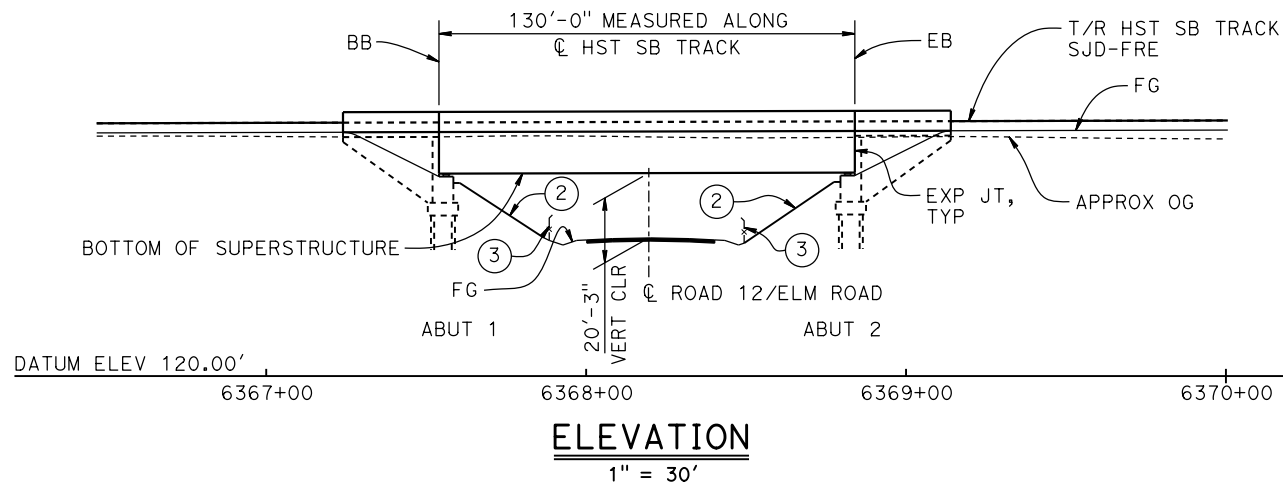
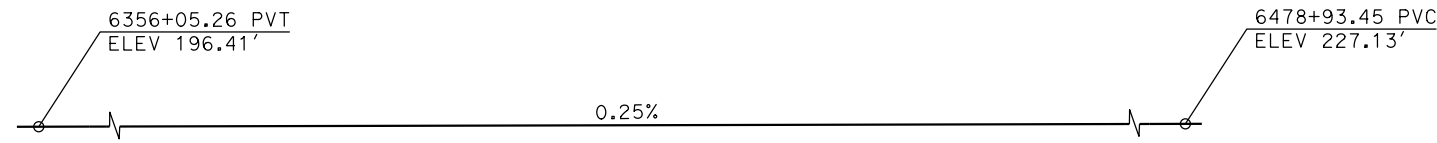
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
ASH SLOUGH BRIDGE - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3170-D
SCALE AS SHOWN
SHEET NO.



TEMPORARY TRAFFIC OPENINGS

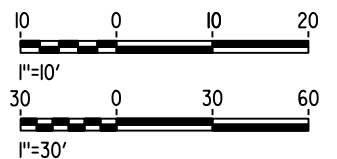
VEHICULAR TRAFFIC			
1. <u>X</u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
STREET OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ROAD 12/ELM ROAD	6368+20	32'x16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

- 16"Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1190-D.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇒ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)
- ③ AR FENCE, SEE TRACK PLANS; DRAWING TT-B0020-D



15-AUG-2016 8:31 MF-ST-K1190-D.dgn

0005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

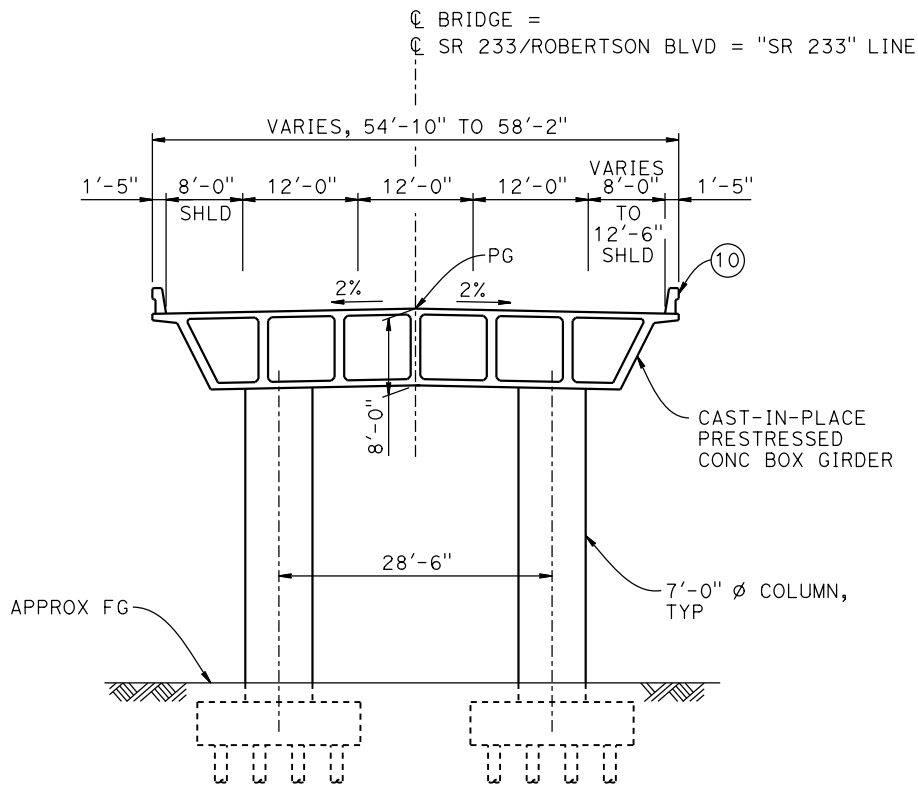
NOT FOR
CONSTRUCTION



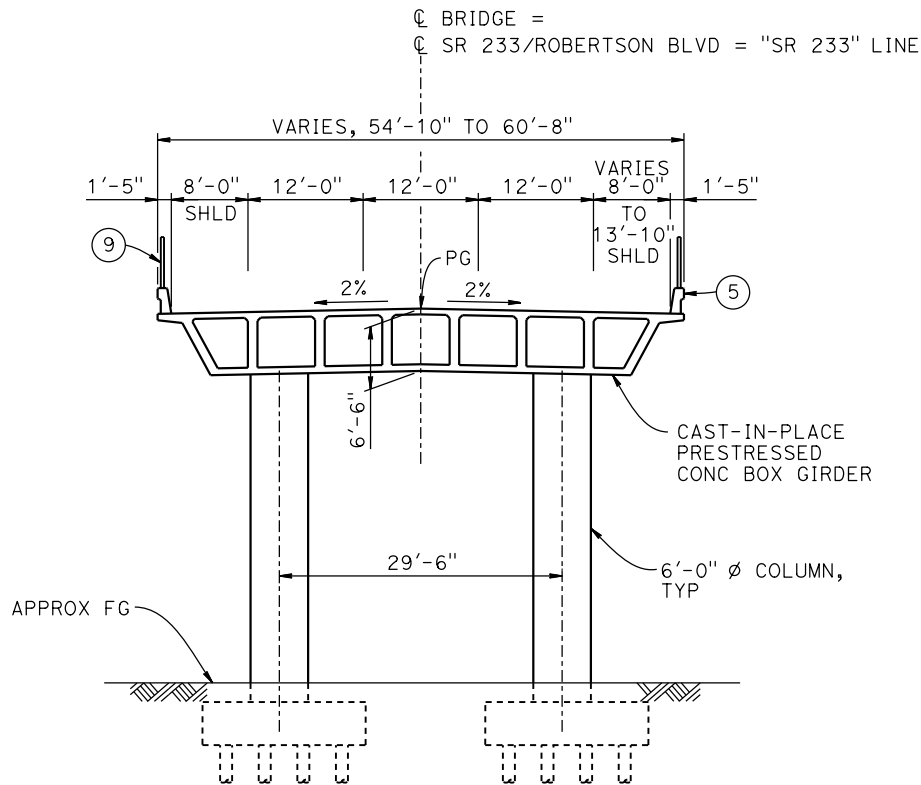
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ELM ROAD (ROAD 12) UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1190-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:48 MF-ST-K3210-D.dgn



TYPICAL SECTION AT OVERCROSSING
1" = 10'



TYPICAL SECTION AT OVERHEAD
1" = 10'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. <input type="checkbox"/> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <input checked="" type="checkbox"/> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
SR 152	36+49	40'X16.5'	E BND
SR 152	38+08	40'X16.5'	W BND
3. <input type="checkbox"/> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- ⬤ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "ROBERTSON BLVD OVERCROSSING"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ PAINT "ROBERTSON BLVD OVERHEAD"
- ④ PAINT "BRIDGE NO. XX-XXXX"
- ⑤ CONCRETE BARRIER TYPE 736 MOD
- ⑥ SLOPE PAVING (1½H:1V)
- ⑦ WINGWALL
- ⑧ RETAINING WALL
- ⑨ AR FENCE WITH SOLID PLATE
- ⑩ CONCRETE BARRIER TYPE 732 MOD

NOTES:

- 16" Ø PIPE PILES ASSUMED AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1210-D.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1210-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1210-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
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CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

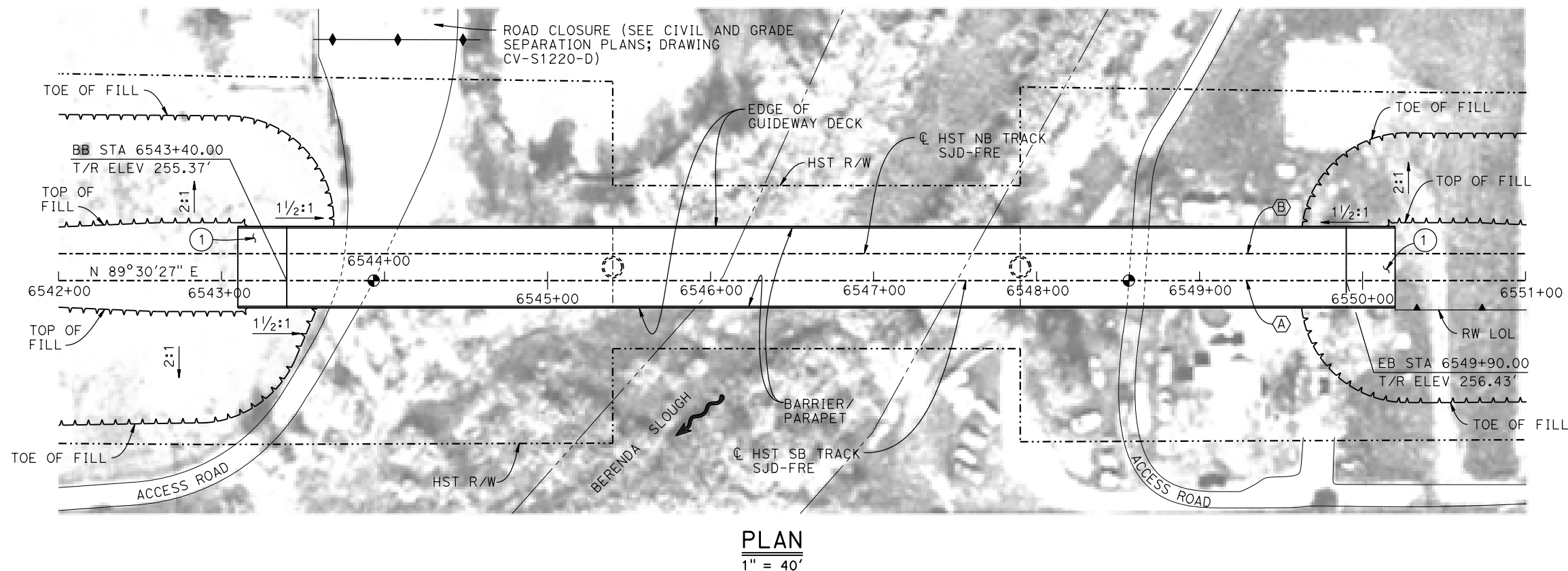
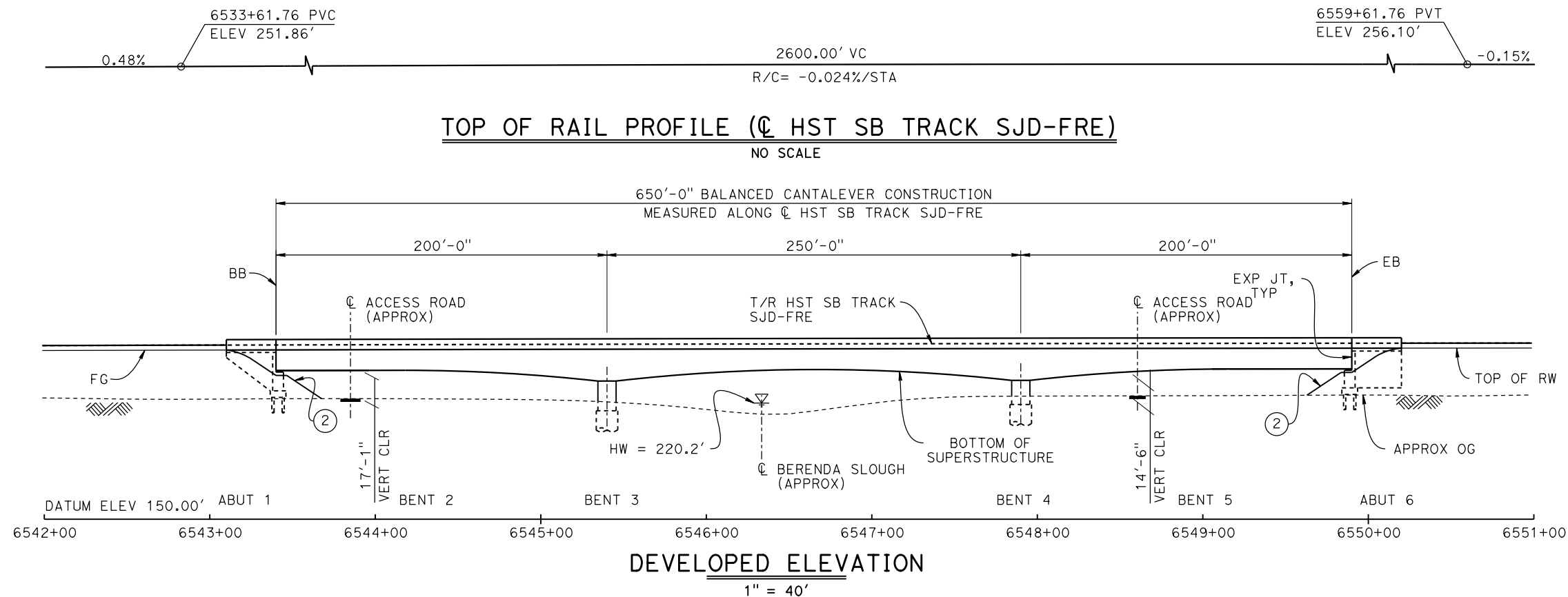
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3210-D
SCALE AS SHOWN
SHEET NO.



TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ACCESS ROAD	6543+85	20'x16.5'	-
ACCESS ROAD	6548+29	20'x16.5'	-
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

NOTES:

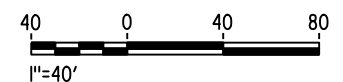
1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR TYPICAL SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3220-D.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1220-D.
5. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1220-D.

CURVE SJD-FRE 4 SB (A)

R = 325,016.50'
LS = 1,150.00'

CURVE SJD-FRE 4 NB (B)

R = 325,000.00'
LS = 1,150.00'



MF-ST-K1220-D.dgn

15-AUG-2016 8:32

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

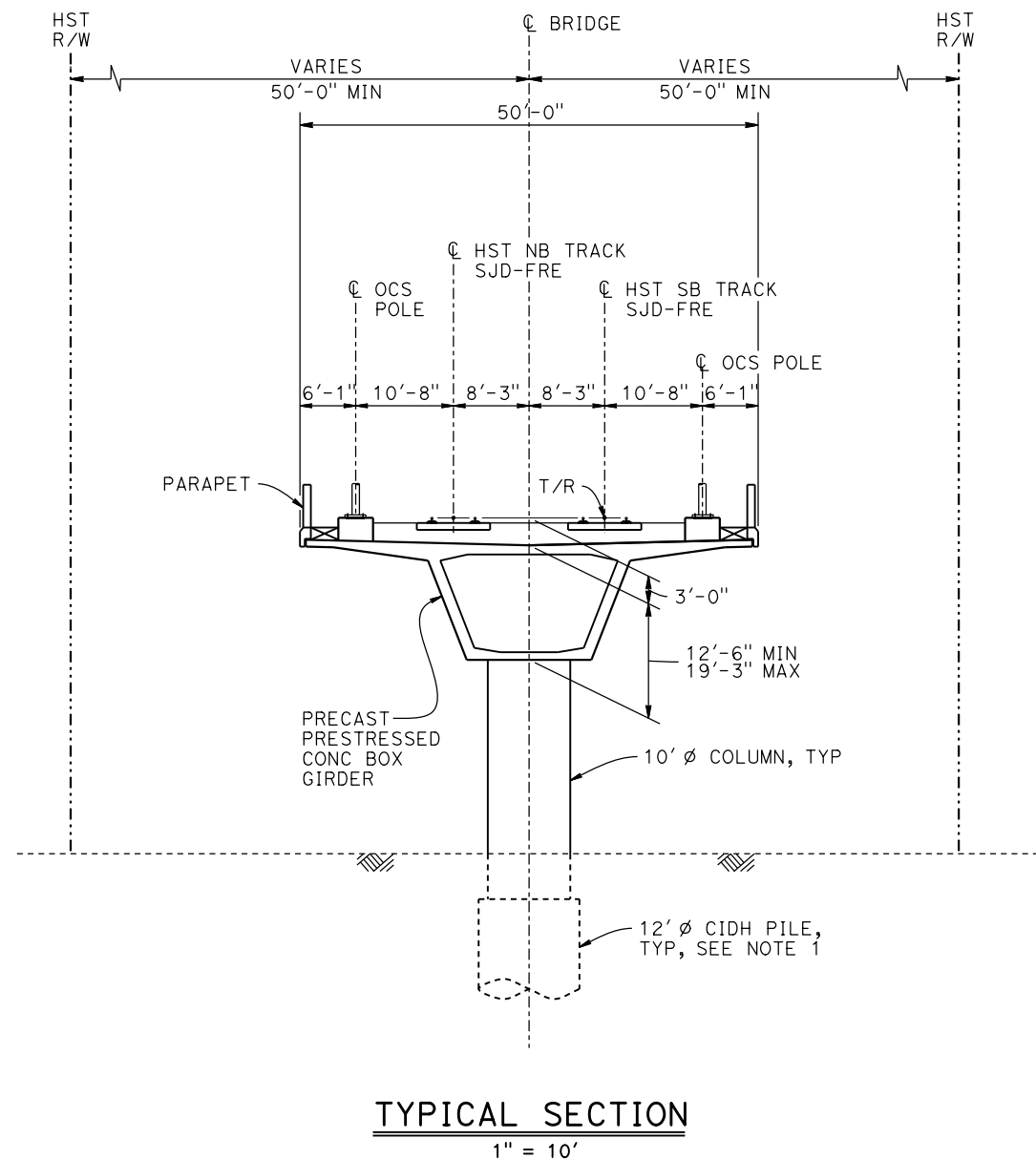


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

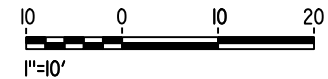
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA SLOUGH BRIDGE - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1220-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:48 MF-ST-K3220-D.dgn



- NOTE:**
- 1. DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0051-D AND TT-B0053-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
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IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

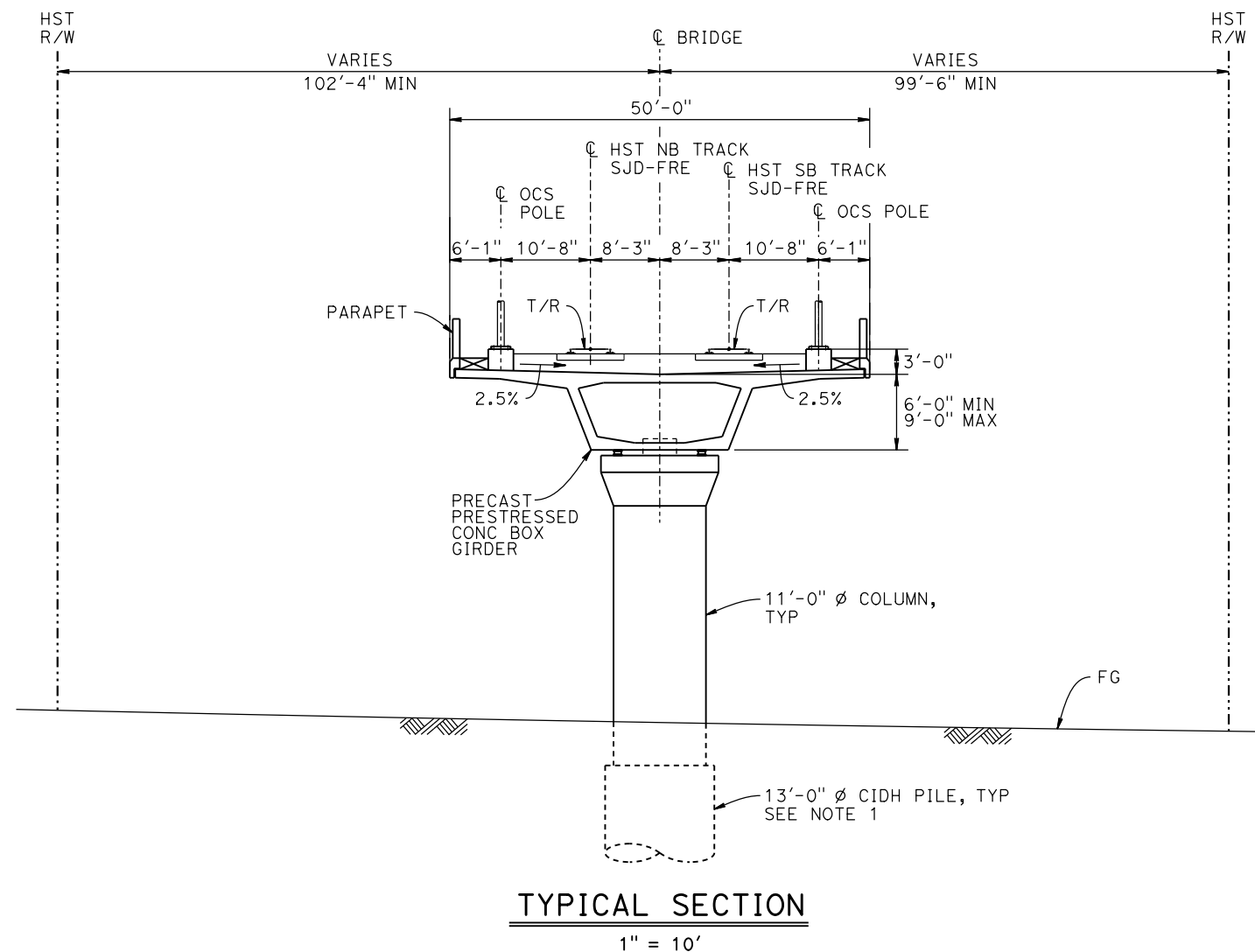
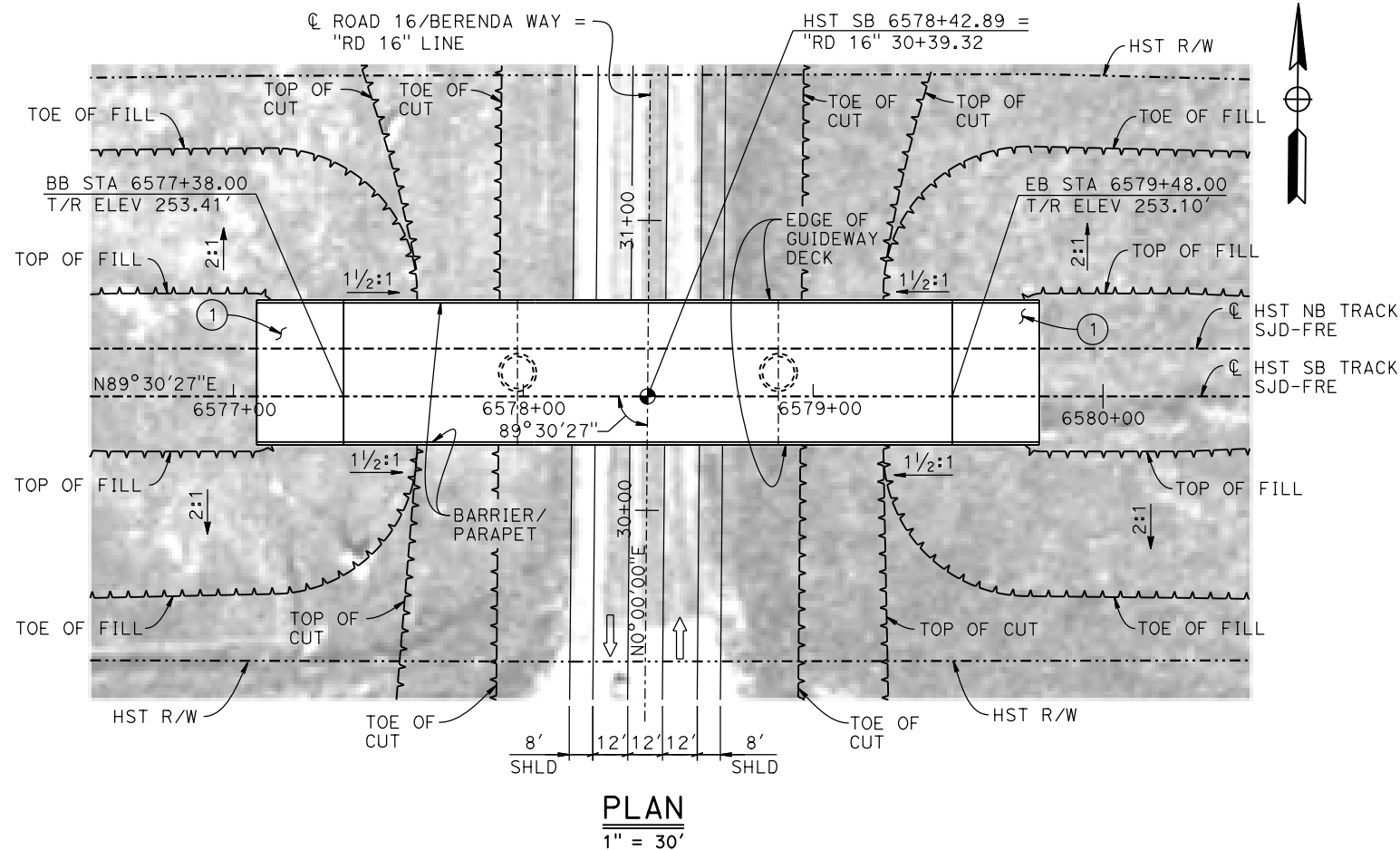
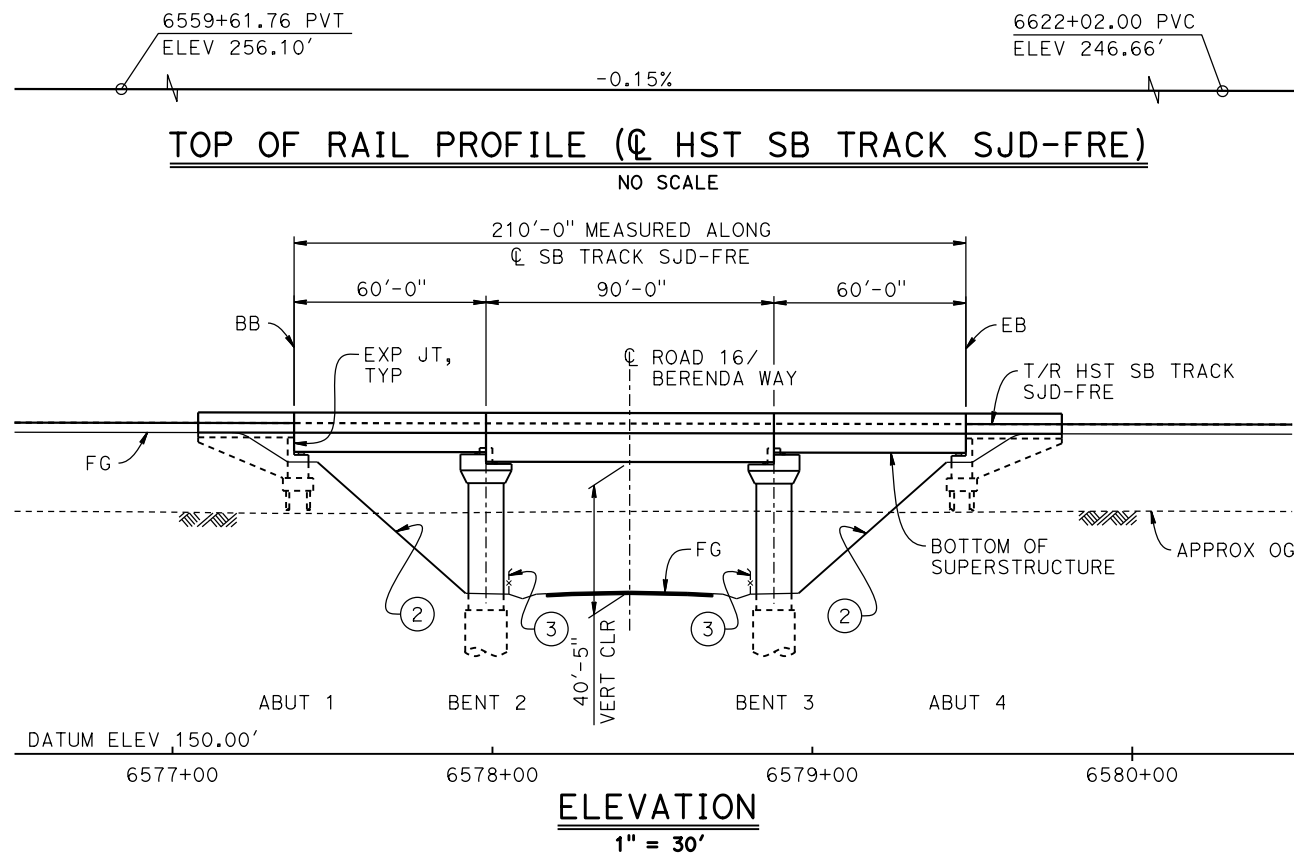
**NOT FOR
CONSTRUCTION**



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

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
BERENDA SLOUGH BRIDGE - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3220-D
SCALE AS SHOWN
SHEET NO.



NOTES:

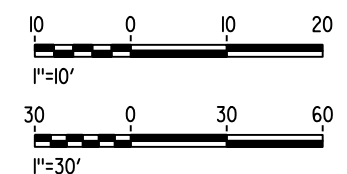
1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-D.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. <u>X</u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ x VERT)		
ROAD 16/BERENDA WAY	6578+42	49'x16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)
- ③ AR FENCE, SEE TRACK PLANS, DRAWING TT-B0020-D



MF-ST-K1230-D.dgn

15-AUG-2016 8:32

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

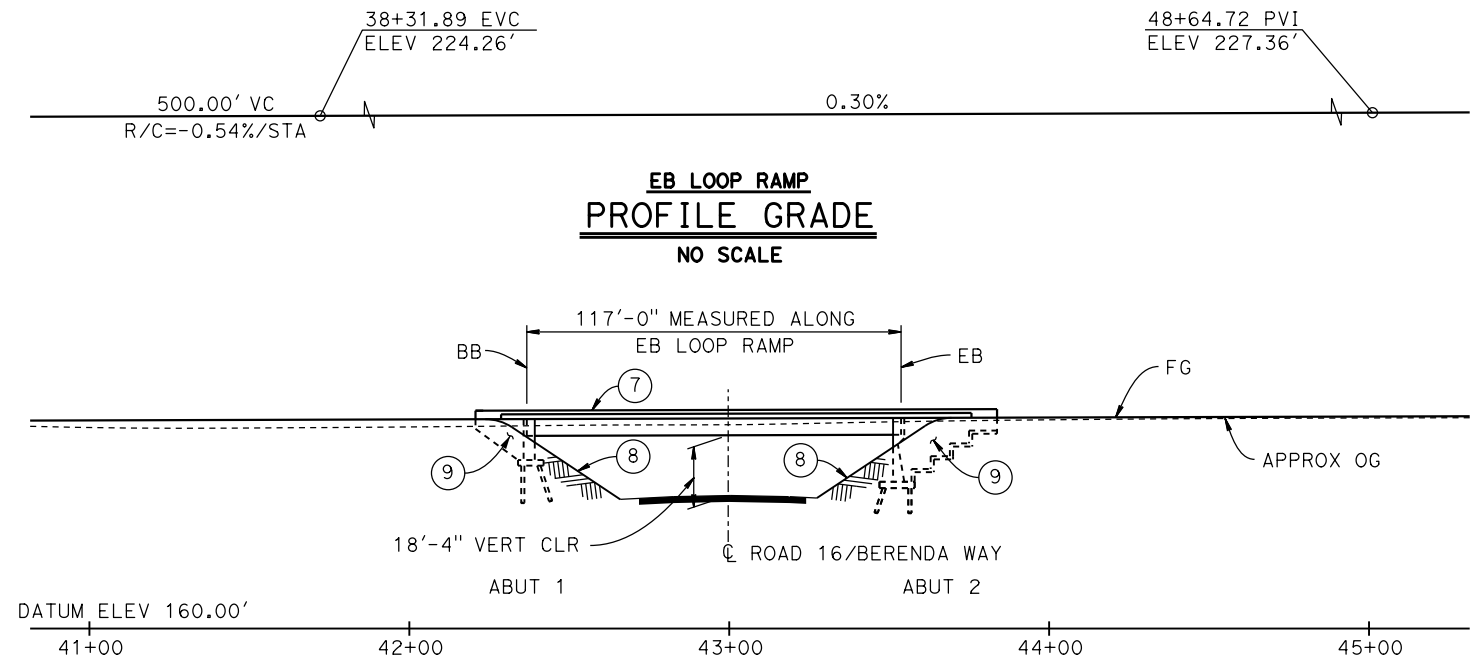
**NOT FOR
CONSTRUCTION**



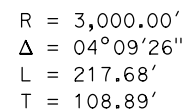
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA WAY (ROAD 16) UNDERPASS












CONTRACT NO. HSR08-05
DRAWING NO. ST-K1230-D
SCALE AS SHOWN
SHEET NO.



EB LOOP RAMP (ROAD 16) UNDERCROSSING
DEVELOPED ELEVATION
1" = 30'



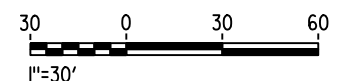
1. FOR TYPICAL SECTION SEE DRAWING ST-K3235-D.
2. 16" Ø PIPE PILES ASSUMED AT ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-D.
4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-D.
5. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-D.

	INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
	INDICATES DIRECTION OF TRAFFIC
	PAINT "SR 152 EB (ROAD 16) UNDERCROSSING"
	PAINT "BRIDGE NO. XX-XXXX"
	PAINT "SR 152 WB (ROAD 16) UNDERCROSSING"
	PAINT "BRIDGE NO. XX-XXXX"
	PAINT "EB LOOP RAMP (ROAD 16) UNDERCROSSING"
	PAINT "BRIDGE NO. XX-XXXX"
	CONCRETE BARRIER TYPE 732
	SLOPE PAVING (1½H:1V)
	WINGWALL

1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.

2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ x VERT)	
ROAD 16/BERENDA WAY	43+00	52'x16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	M. BRATT
DRAWN BY	A. M.
CHECKED BY	K. CHARAN
IN CHARGE	C. LEMLEY
DATE	08/12/2016

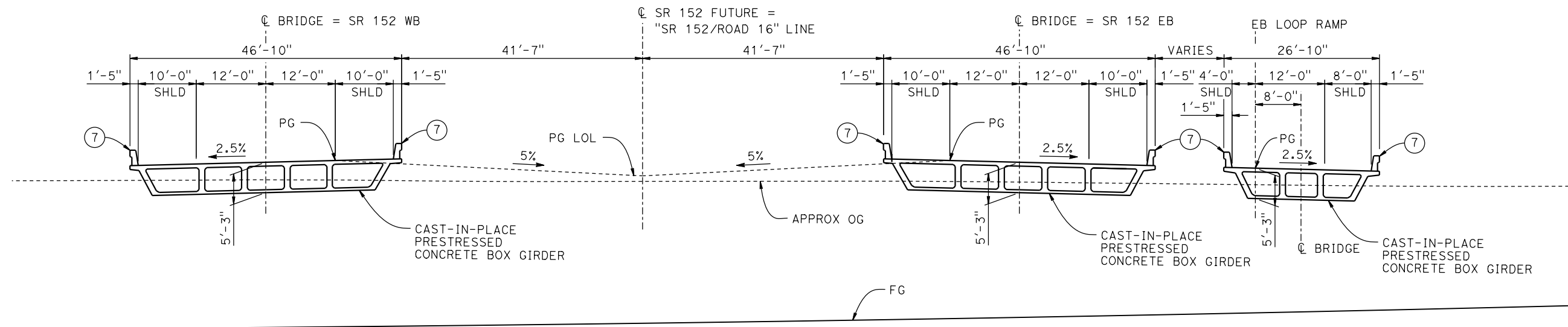
**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA WAY (ROAD 16) INTERCHANGE - 1 OF 2

CONTRACT NO.	HSR08-05
DRAWING NO.	ST-K1235-D
SCALE	AS SHOWN
SHEET NO.	



TYPICAL SECTION
1" = 10'

NOTES:

1. FOR NOTES AND LEGEND, SEE DRAWING ST-K1235-D.



p005133g 15-AUG-2016 8:48 MF-ST-K3235-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

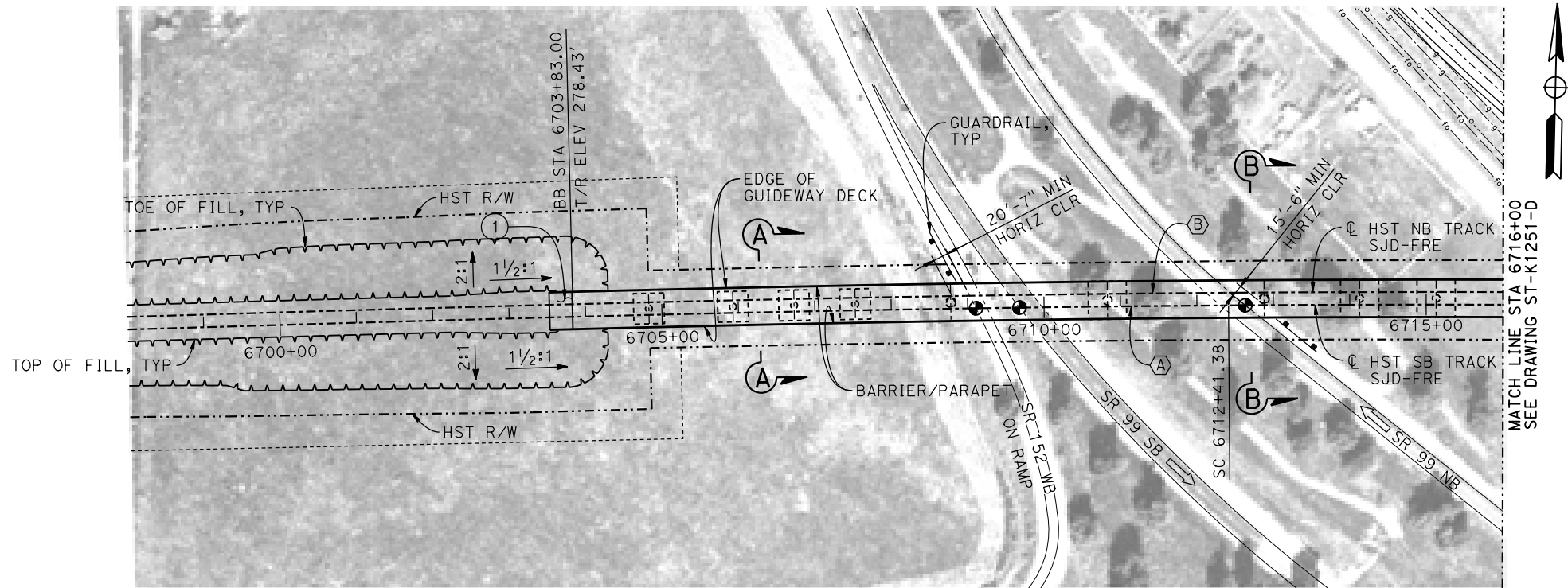
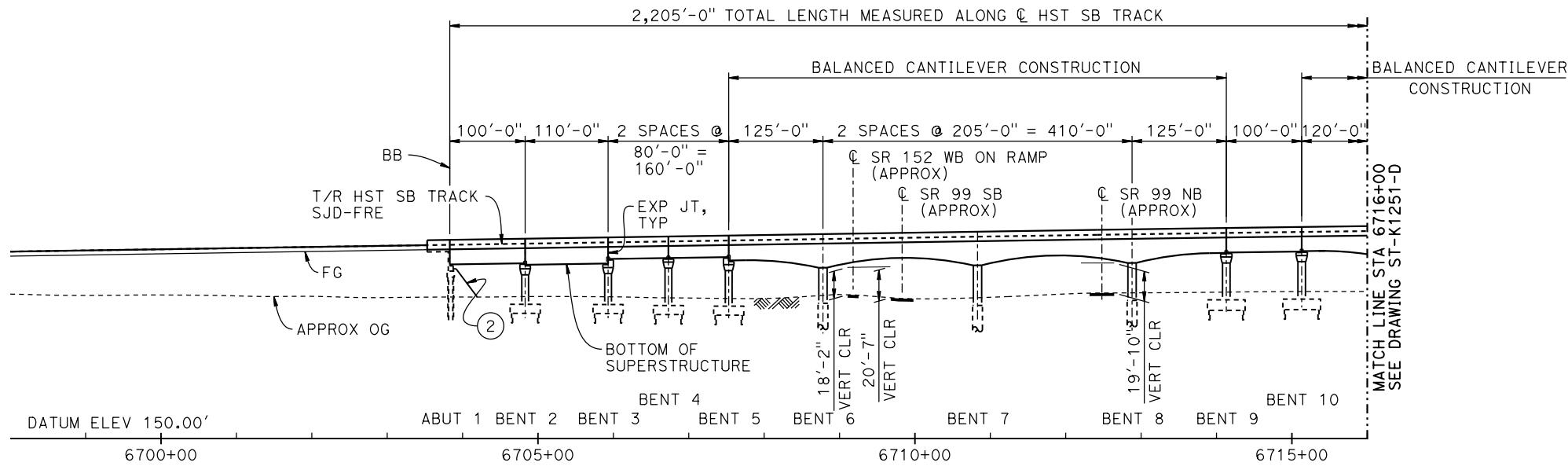
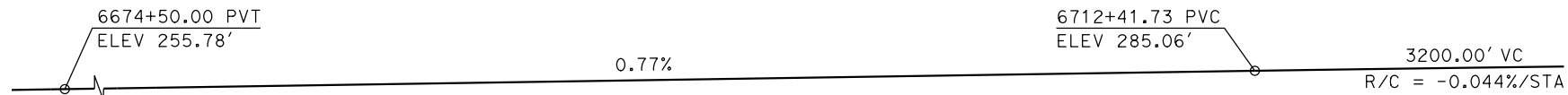
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
BERENDA WAY (ROAD 16) INTERCHANGE - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3235-D
SCALE AS SHOWN
SHEET NO.



TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
SR 152 SB ON RAMP	6709+18	25'X16.5'	S BND
SR 99	6709+83	37'X16.5'	S BND
SR 99	6712+48	37'X16.5'	N BND
FAIRMEAD BLVD	6718+98	32'X16.5'	2-WAY
ROAD 18 3/4	6724+40	32'X16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

TEMPORARY TRAFFIC OPENINGS

RAILROAD TRAFFIC

FALSEWORK OPENING REQUIRED ON:

NAME OF RR AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)
UPRR	6717+37	24' X 21'

LEGEND:

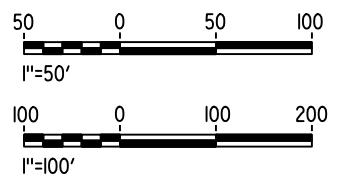
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAVEL
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3250-D.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1250-D.
5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1250-D.

CURVE SJD-FRE 6 SB (A)
R = 38,000.00'
LS = 1,750.00'

CURVE SJD-FRE 6 NB (B)
R = 38,016.50'
LS = 1,750.00'



p005133g 15-AUG-2016 8:34 MF-ST-K1250-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

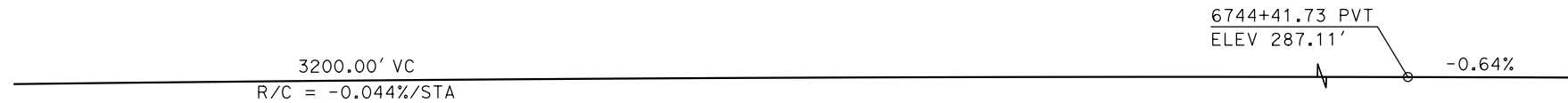
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

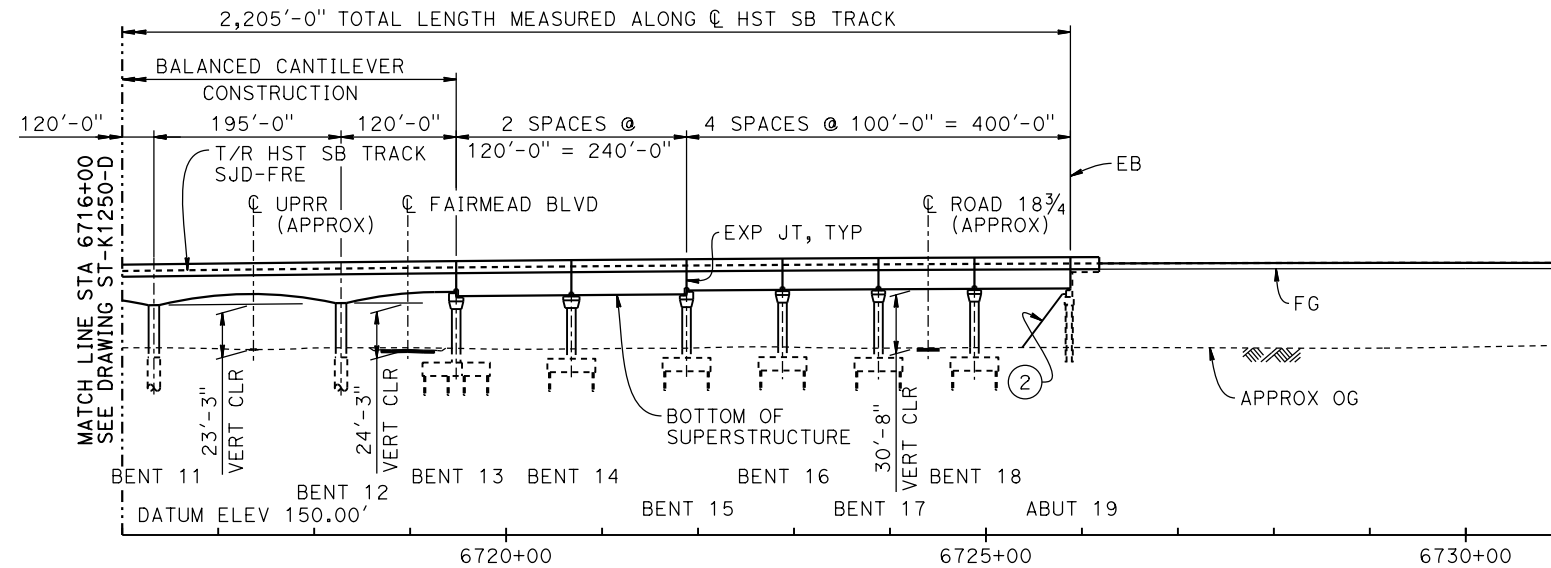
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 1 OF 3

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1250-D
SCALE AS SHOWN
SHEET NO.



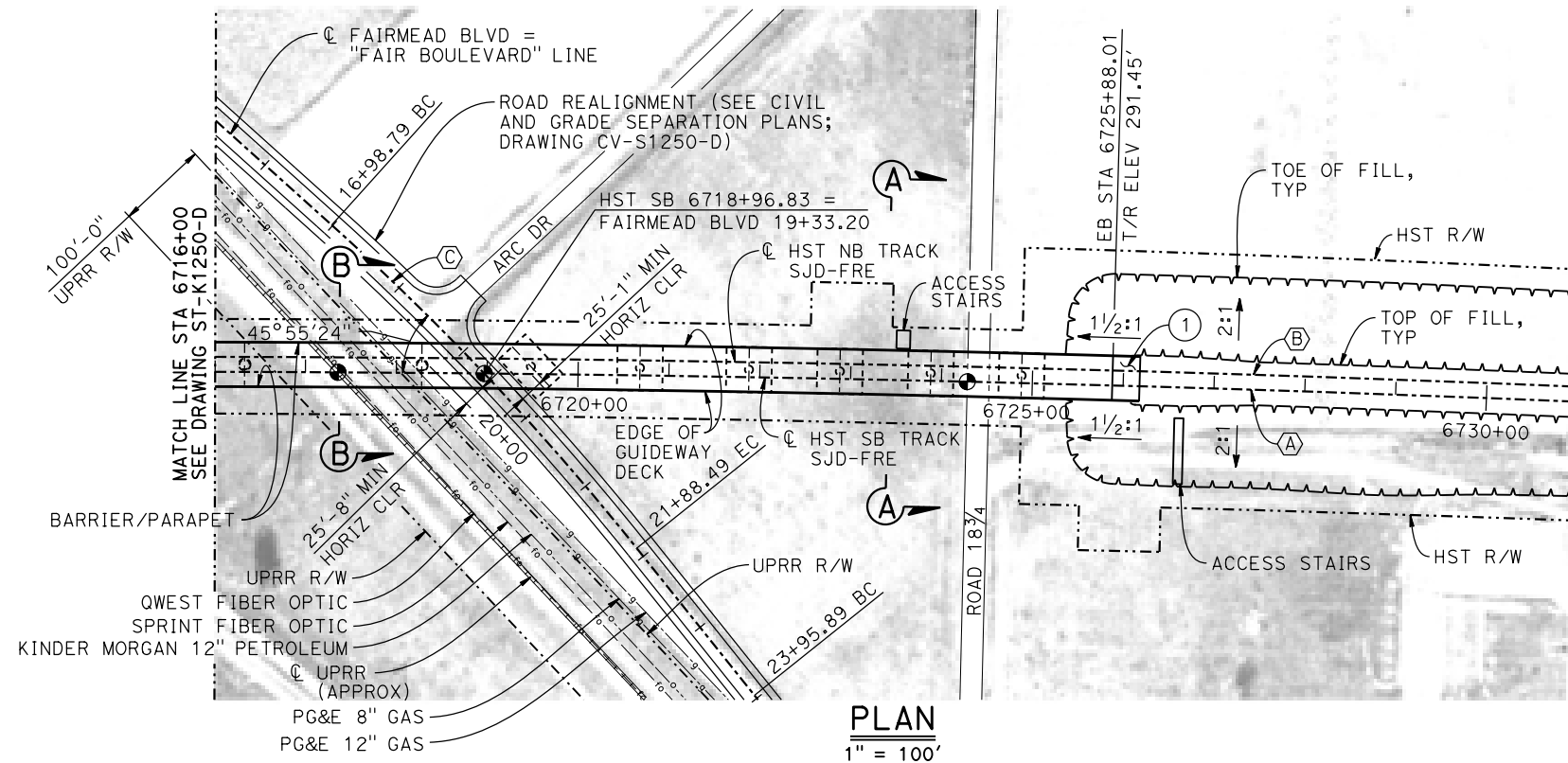
TOP OF RAIL PROFILE (C HST SB TRACK SJD-FRE)

NO SCALE



DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'



CURVE NO. 250-02 C

R = 3,000.00'
Δ = 9°21'10"
L = 489.71'
T = 245.40'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. _ TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
SR 152 SB ON RAMP	6709+18	25'X16.5'	S BND
SR 99	6709+83	37'X16.5'	S BND
SR 99	6712+48	37'X16.5'	N BND
FAIRMEAD BLVD	6718+98	32'X16.5'	2-WAY
ROAD 18 3/4	6724+40	32'X16.5'	2-WAY
3. _ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

TEMPORARY TRAFFIC OPENINGS

RAILROAD TRAFFIC

FALSEWORK OPENING REQUIRED ON:

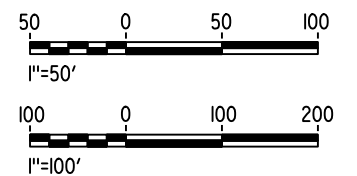
NAME OF RR AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
UPRR	6717+37	24' X 21'	

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAVEL
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

NOTES:

1. FOR GENERAL NOTES, SEE DRAWING ST-K1250-D.
2. FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3250-D.



MF-ST-K1251-D.dgn

15-AUG-2016 8:34

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

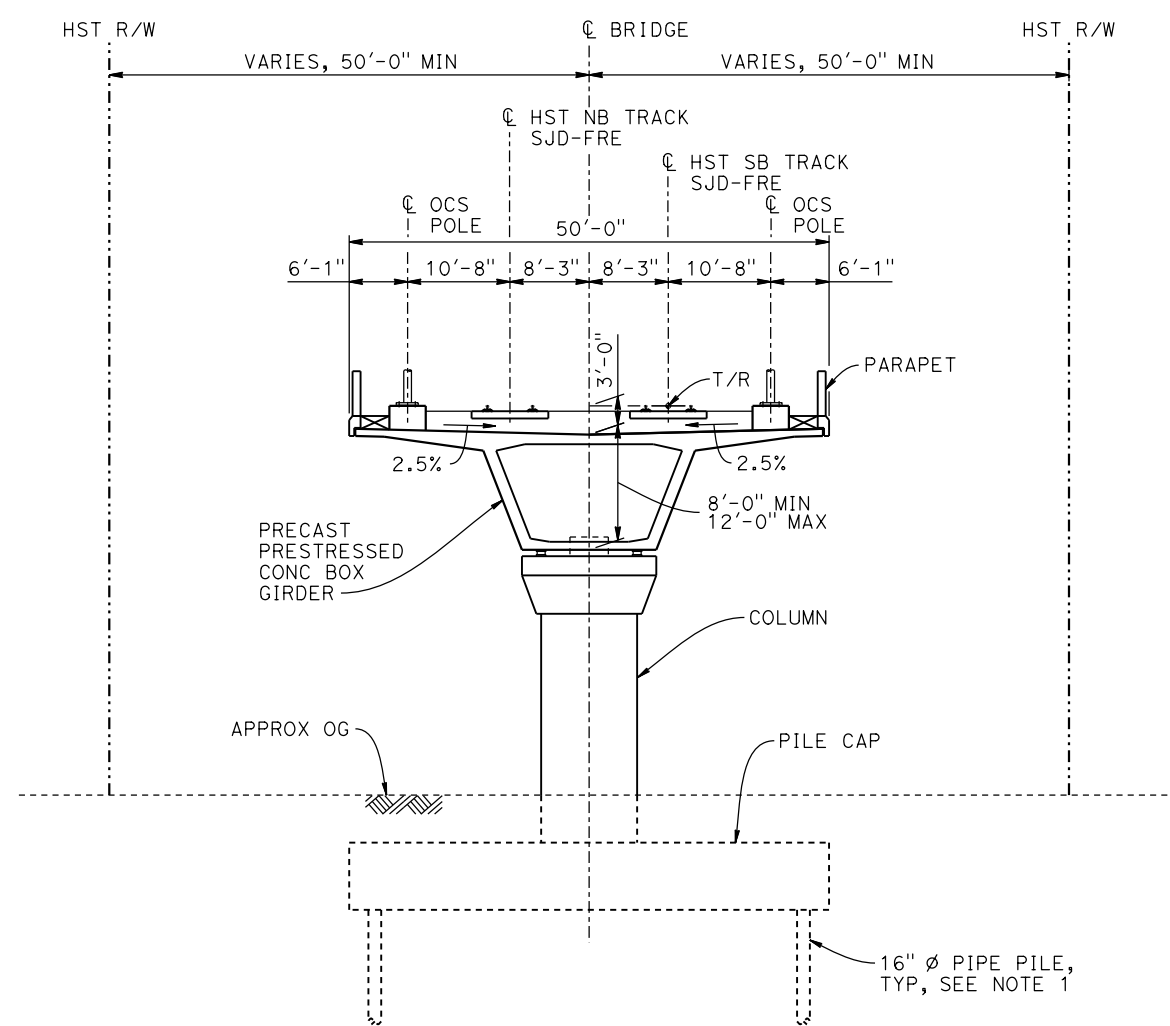
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

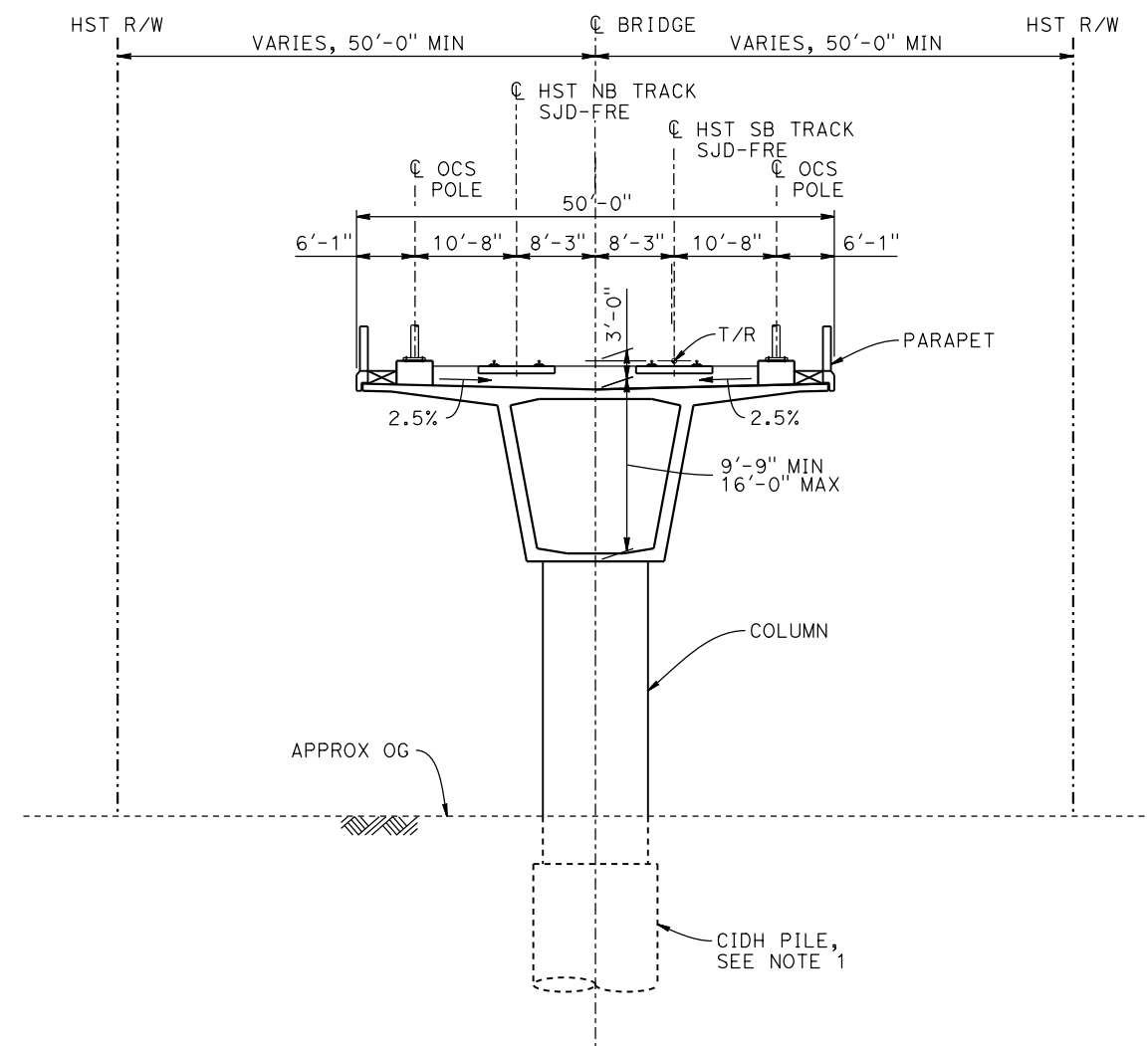
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 2 OF 3

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1251-D
SCALE AS SHOWN
SHEET NO.



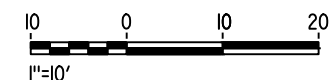
SECTION A-A
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2 - 5	9'-0" ϕ	
6	11'-0" ϕ	13'-0" ϕ
7	12'-0" ϕ	
8	11'-0" ϕ	13'-0" ϕ
9 - 10	10'-0" ϕ	
11 - 12	11'-0" ϕ	13'-0" ϕ
13 - 18	9'-0" ϕ	



SECTION B-B
1" = 10'

- NOTES:**
- PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0051-D AND TT-B0053-D.



p005133g 15-AUG-2016 8:49 MF-ST-K3250-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

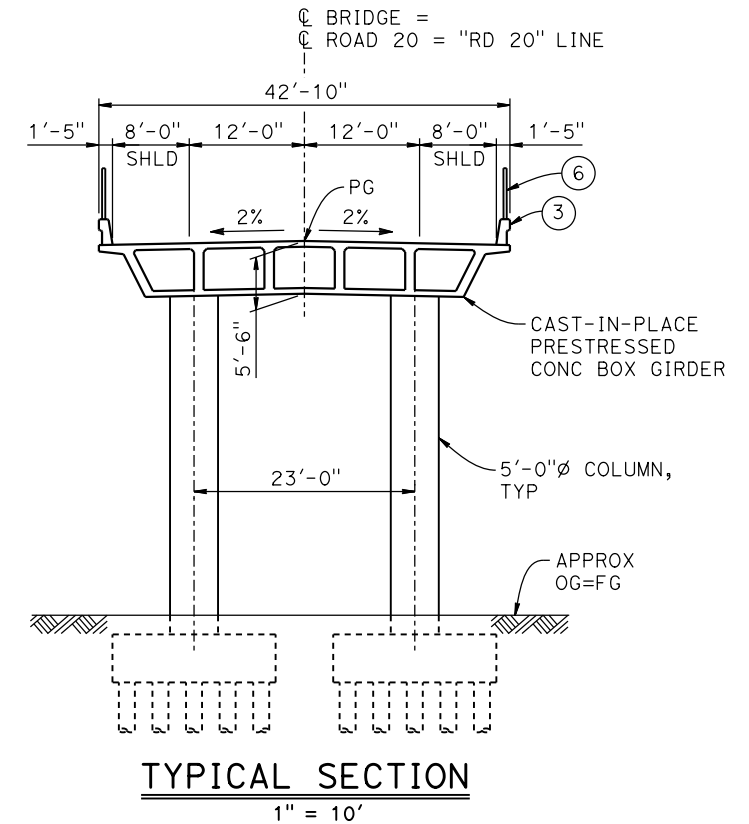
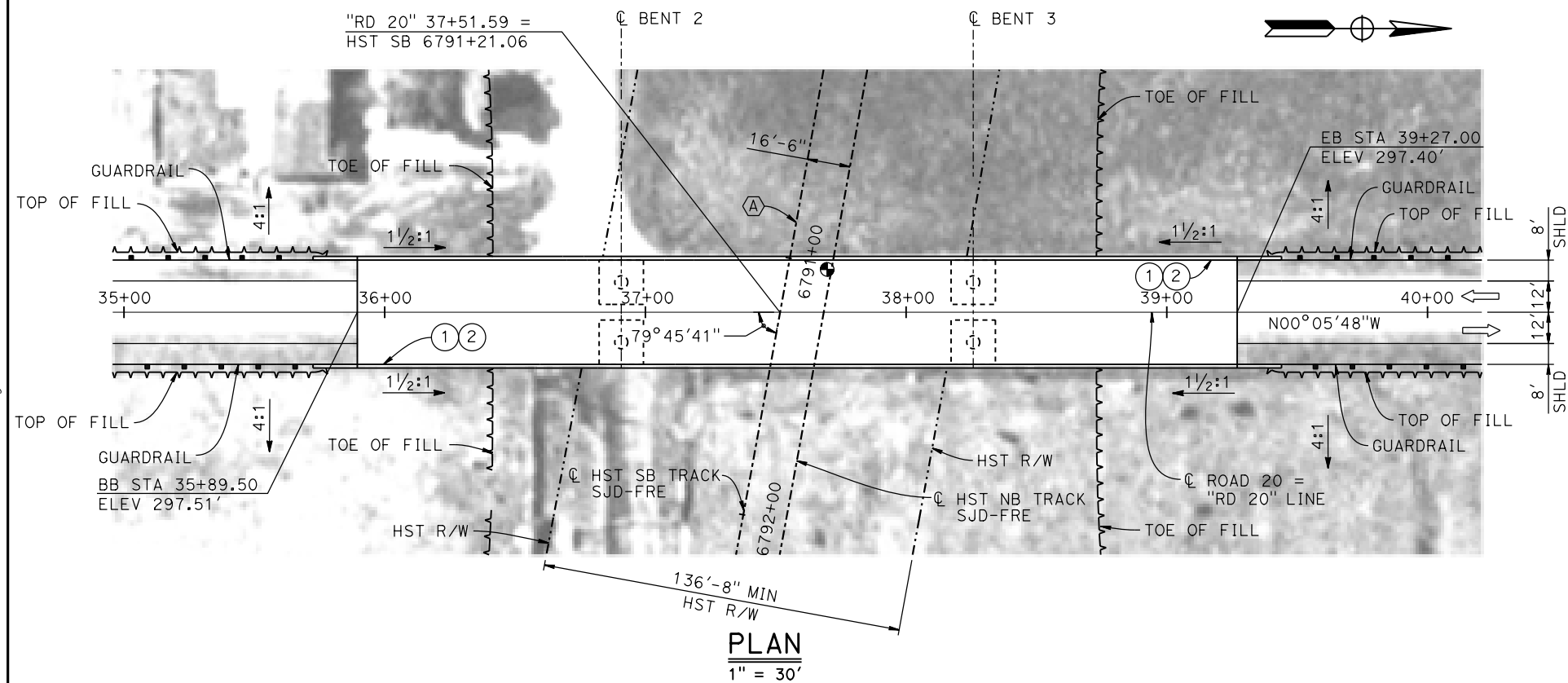
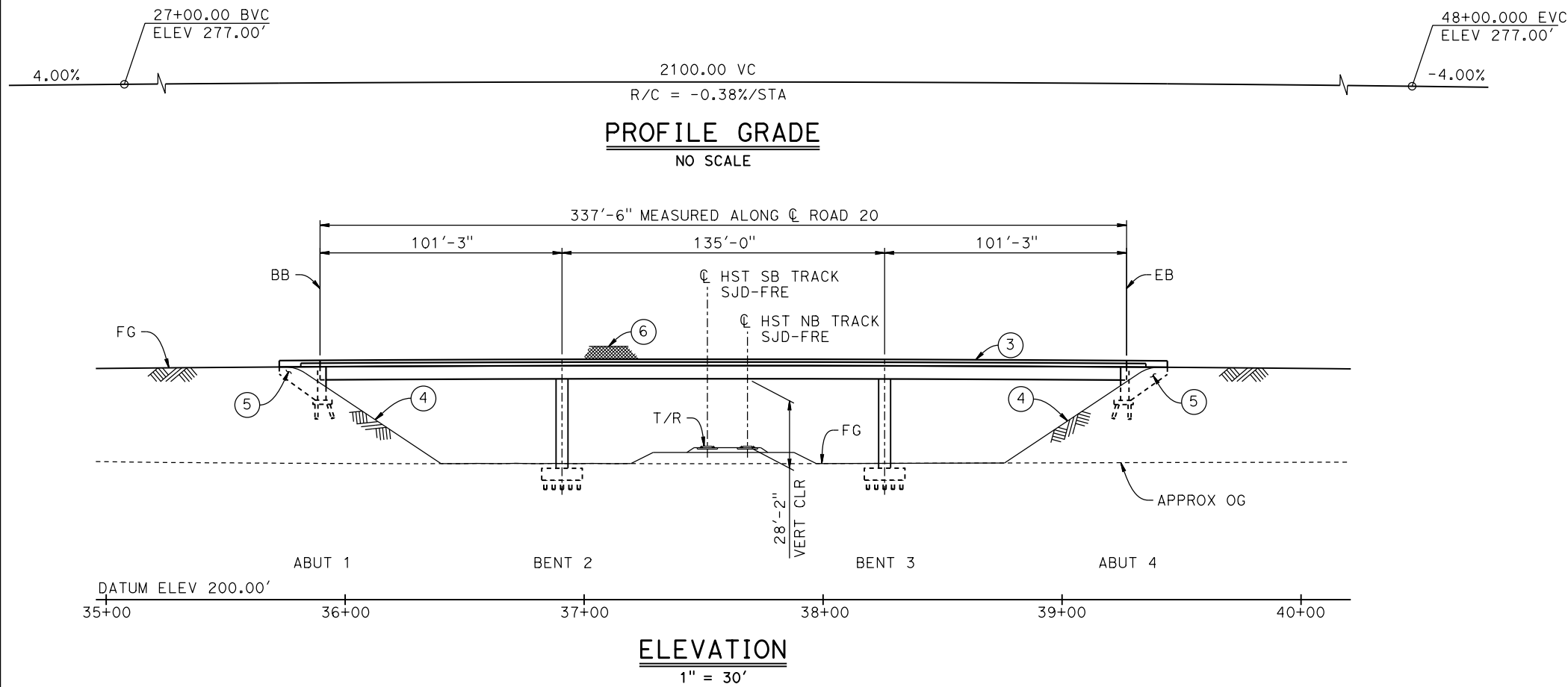


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 3 OF 3

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3250-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:35 MF-ST-K1260-D.dgn



LEGEND:

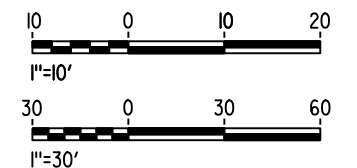
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "ROAD 20 OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1 1/2H:1V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

- 16" Ø PIPE PILES ASSUMED AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; SEE DRAWING CV-S1260-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; SEE DRAWING CV-S1260-D.

CURVE SJD-FRE 6 SB (A)

R = 38,000.00'
LS = 1,750.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

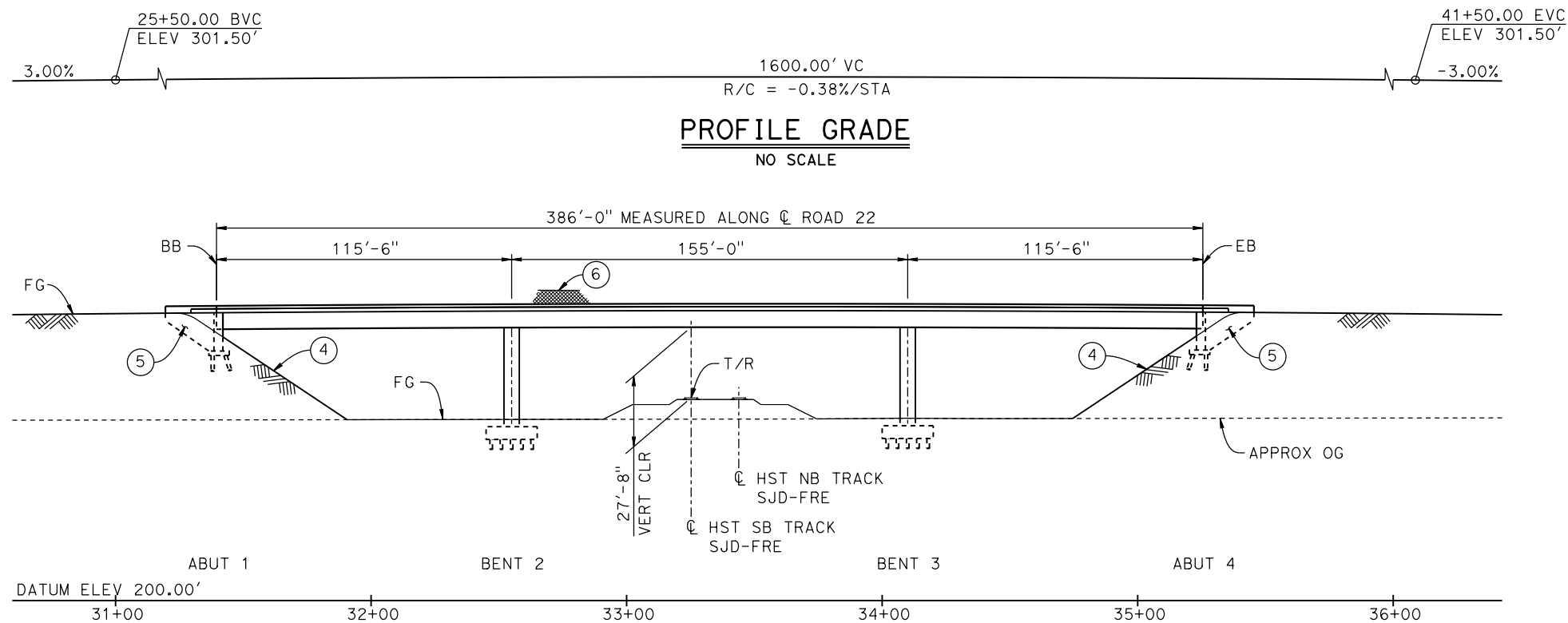
NOT FOR
CONSTRUCTION



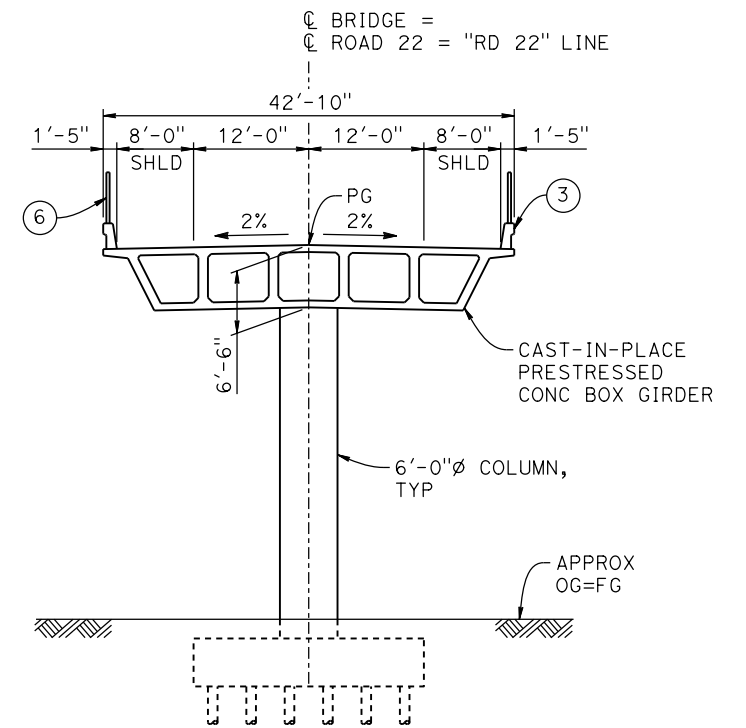
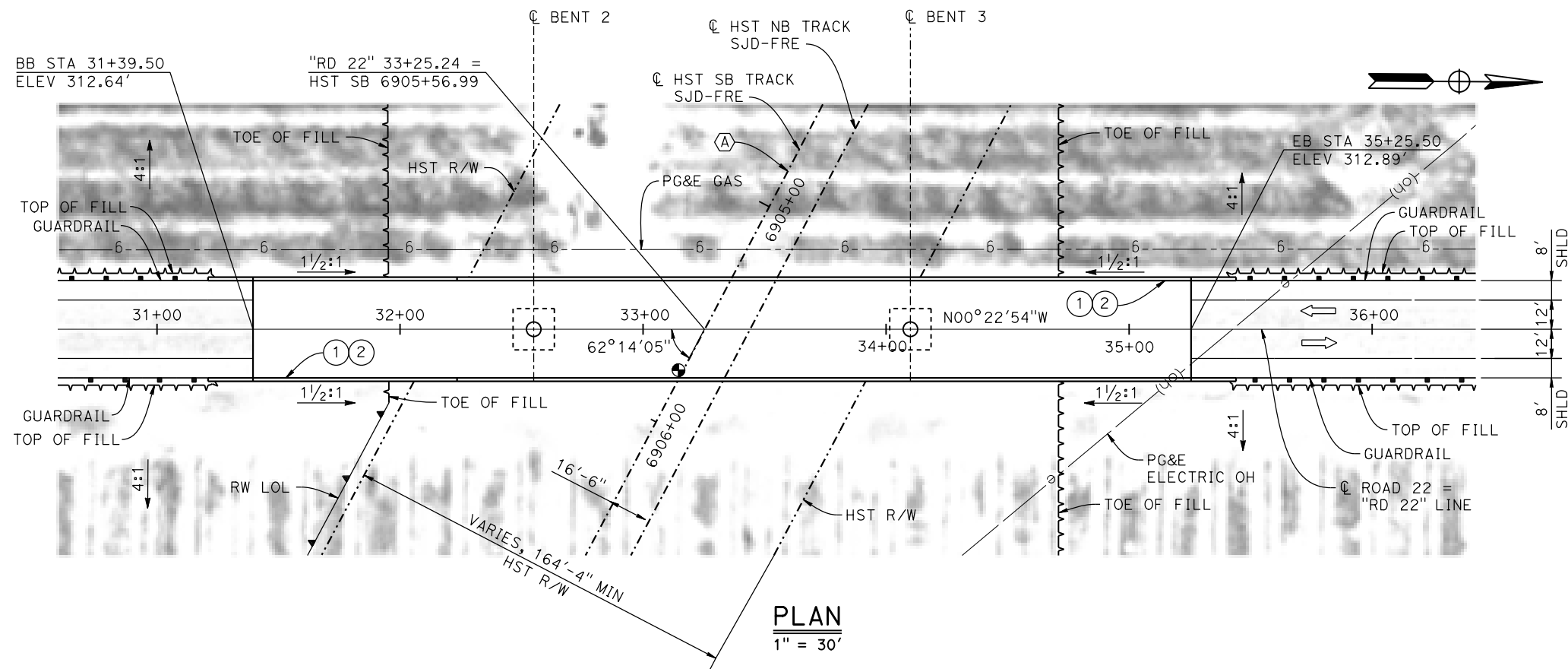
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROAD 20 OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1260-D
SCALE AS SHOWN
SHEET NO.



ELEVATION
1" = 30'



TYPICAL SECTION
1" = 10'

LEGEND:

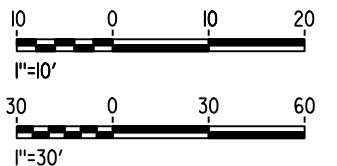
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇒ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "ROAD 22 OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1 1/2H:1V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

- 16" Ø PIPE PILES ASSUMED AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; SEE DRAWING CV-S1280-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; SEE DRAWING CV-S1280-D.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1280-D.

CURVE SJD-FRE 6 SB (A)

R = 38,000.00'
LS = 1,750.00'



MF-ST-K1280-D.dgn

15-AUG-2016 8:35

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

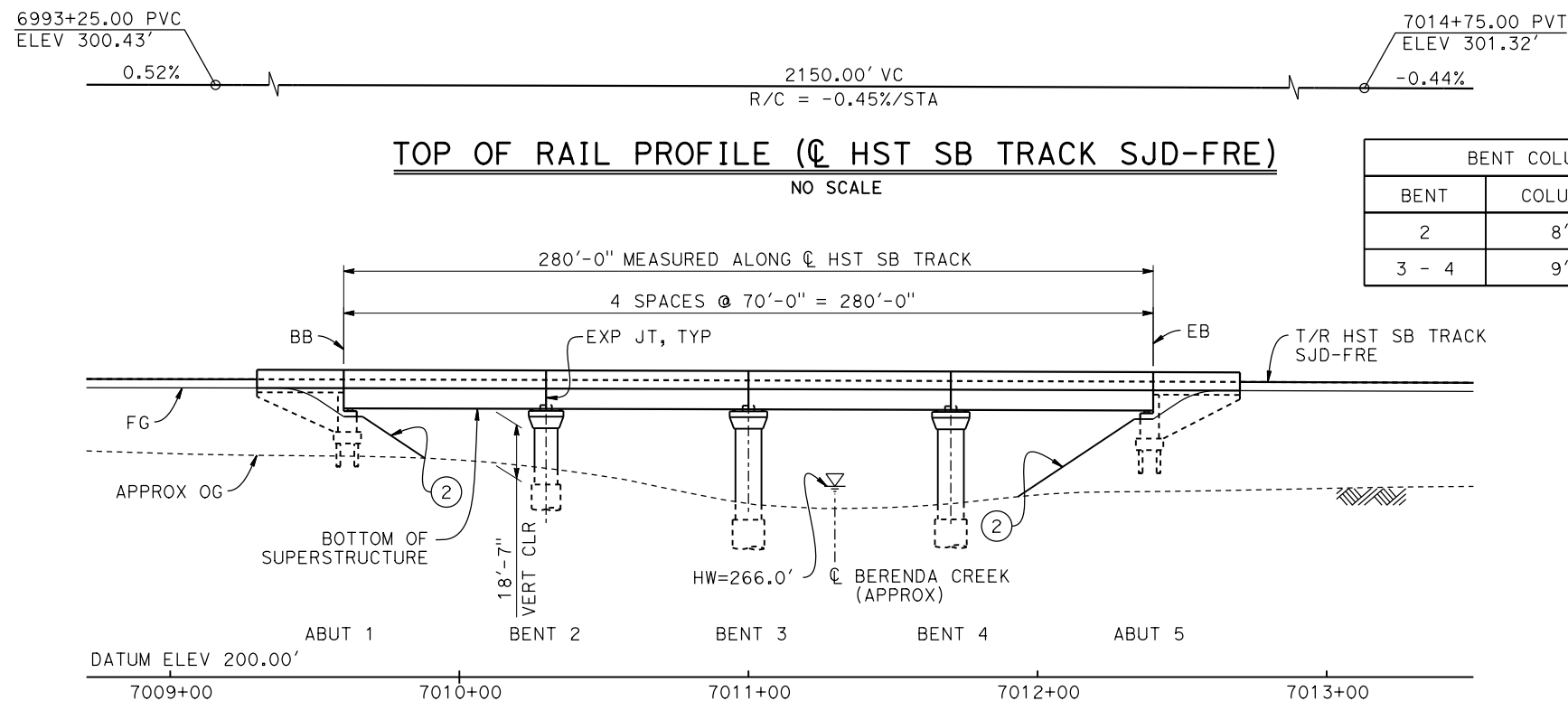


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

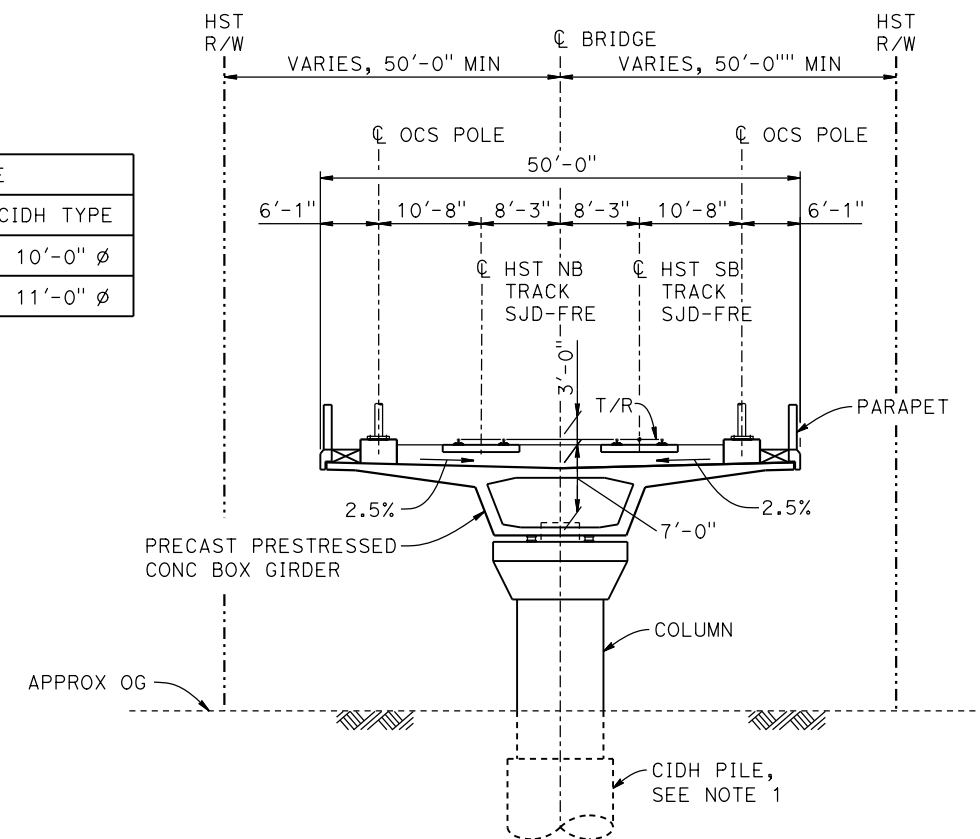
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROAD 22 OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1280-D
SCALE AS SHOWN
SHEET NO.



BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2	8'-0" Ø	10'-0" Ø
3 - 4	9'-0" Ø	11'-0" Ø



TYPICAL SECTION
1" = 10'

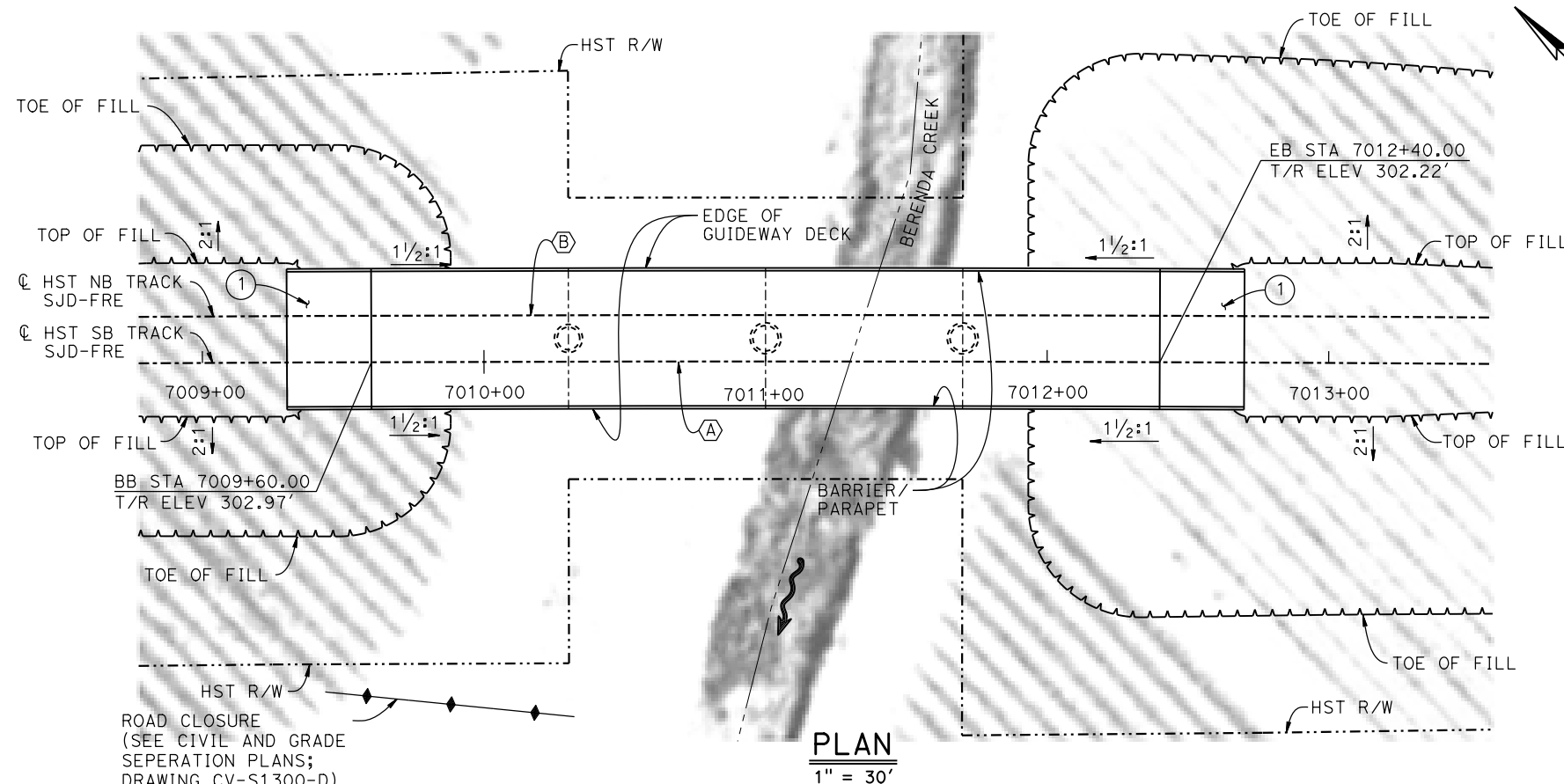
LEGEND:

INDICATES DIRECTION OF FLOW

- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

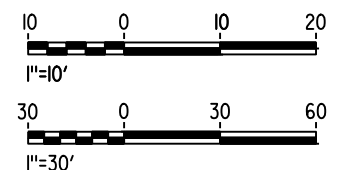
NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1300-D.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR TRACK SUPERELEVATION, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0051-D AND TT-B0053-D.



CURVE SJD-FRE 6 SB (A)
R = 38,000.00'
LS = 1,750.00'

CURVE SJD-FRE 6 NB (B)
R = 38,016.50'
LS = 1,750.00'



MF-ST-K1300-D.dgn

15-AUG-2016 8:35

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

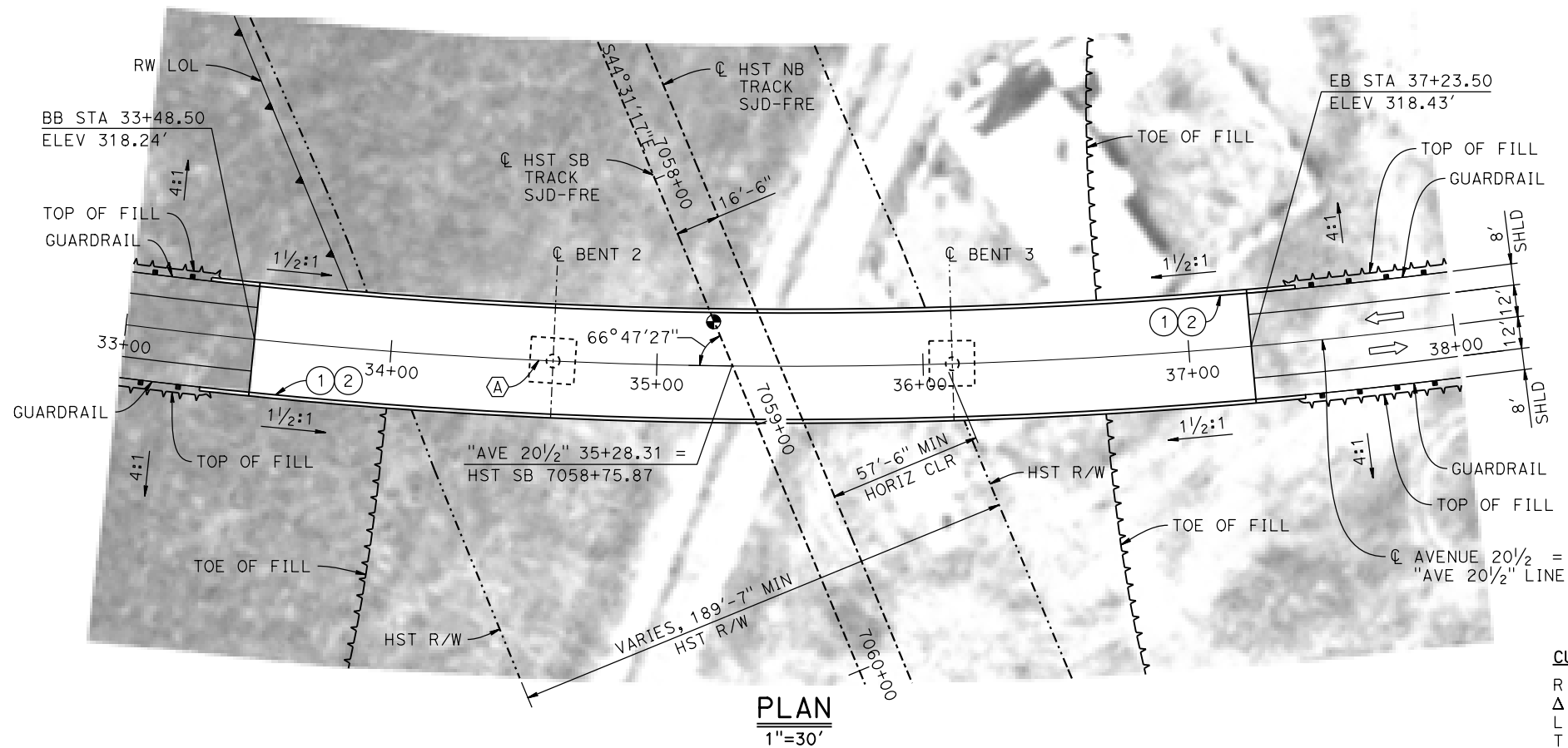
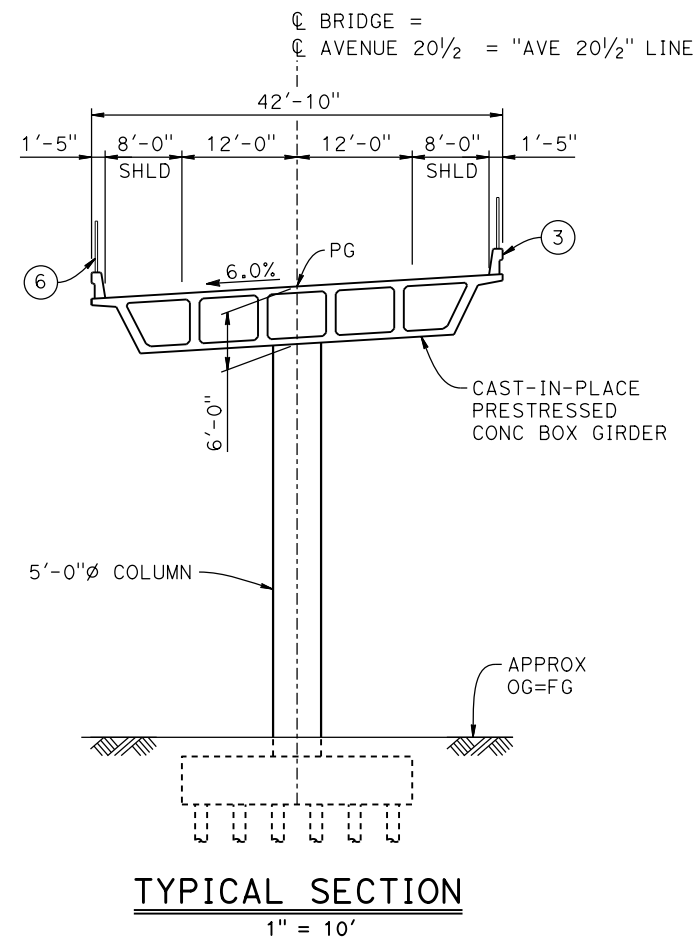
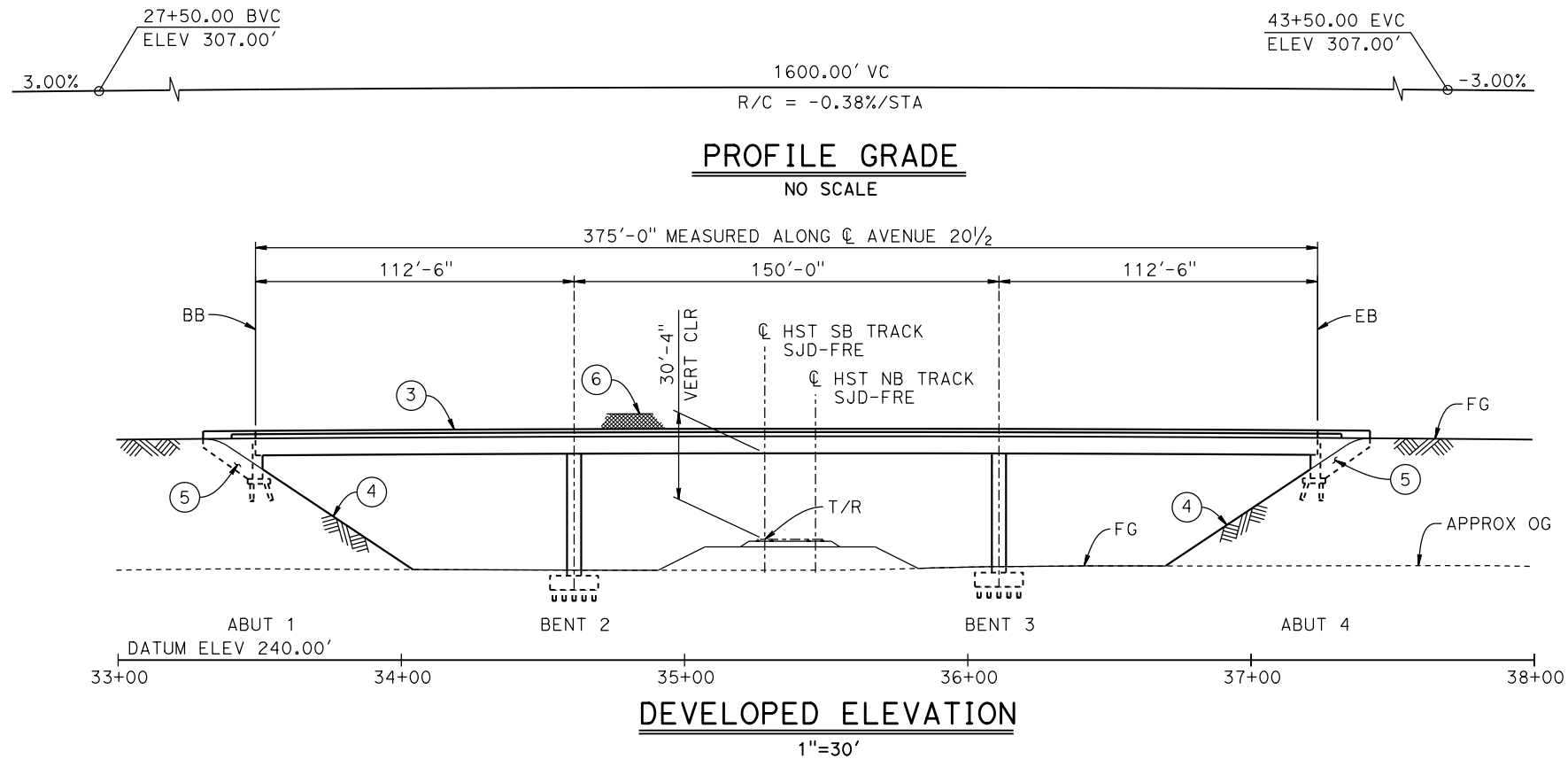
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA CREEK BRIDGE

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1300-D
SCALE AS SHOWN
SHEET NO.



LEGEND:

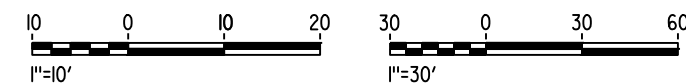
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇒ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "AVENUE 20 $\frac{1}{2}$ OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1 $\frac{1}{2}$ H:1V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

- 16" ϕ PILES ASSUMED AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1310-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1310-D.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1313-D.

CURVE NO. 310-01 (A)

R = 2,000.00'
 $\Delta = 43^{\circ}46'18''$
L = 1,527.92'
T = 803.42'



p005133g 15-AUG-2016 8:36 MF-ST-K1310-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

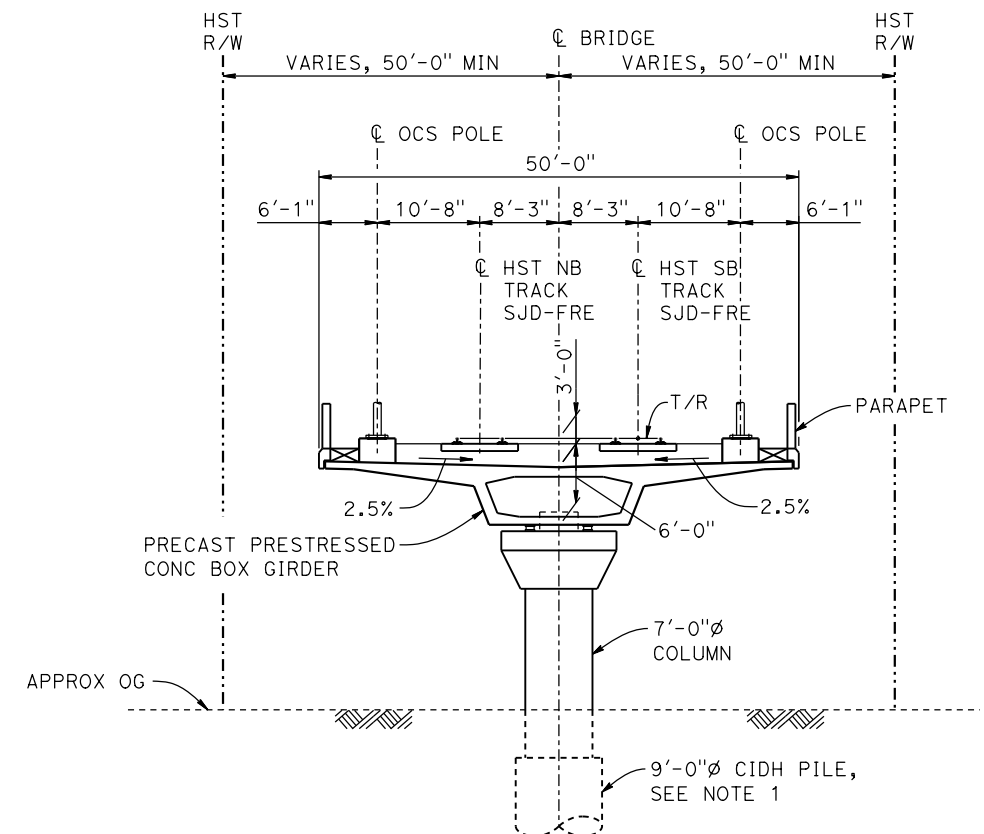
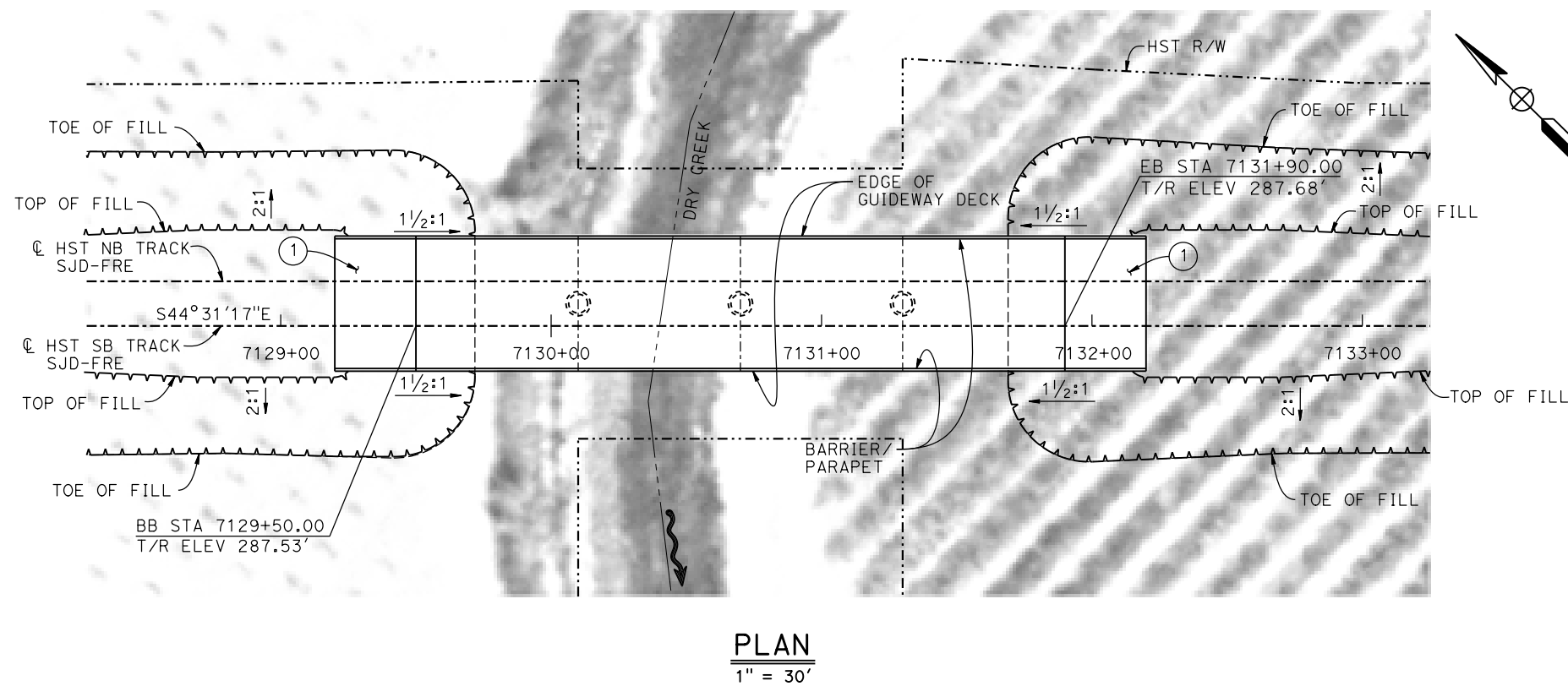
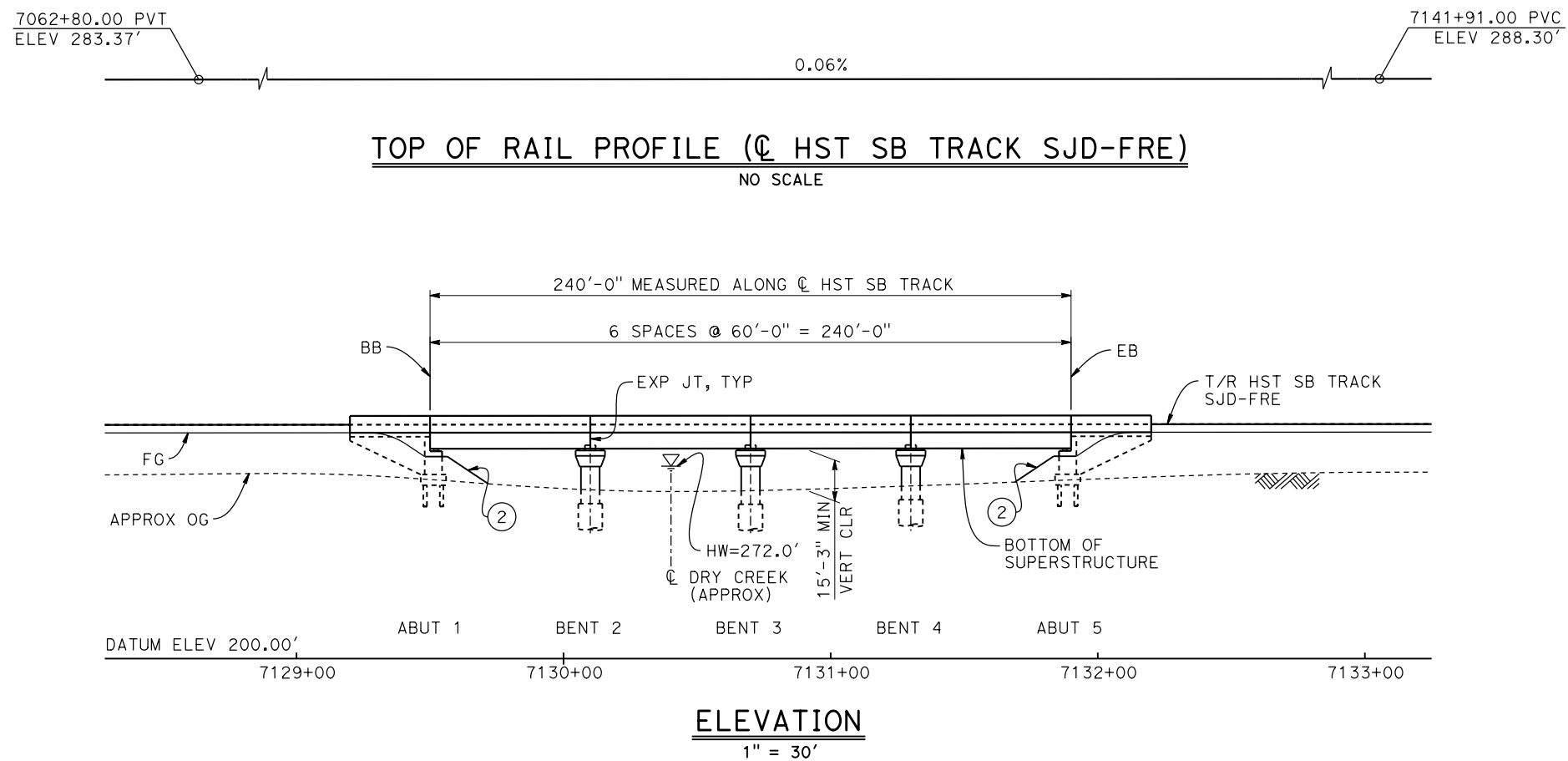
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AVENUE 20 $\frac{1}{2}$ OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1310-D
SCALE AS SHOWN
SHEET NO.



TYPICAL SECTION
1" = 10'

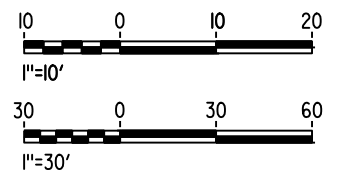
LEGEND:

 INDICATES DIRECTION OF FLOW

- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1320-D AND CV-S1330-D.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.



p005133a 15-AUG-2016 18:36 MF-ST-K1330-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	M. BRATT
DRAWN BY	A. M.
CHECKED BY	K. CHARAN
IN CHARGE	C. LEMLEY
DATE	08/12/2016

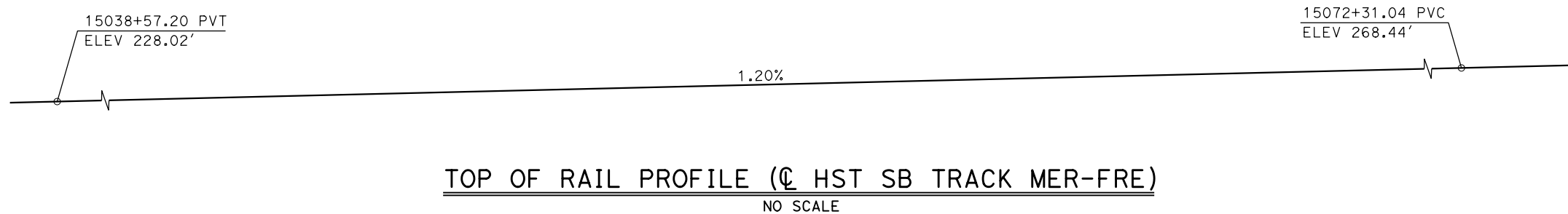
**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

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

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
DRY CREEK BRIDGE

CONTRACT NO.	HSR08-05
DRAWING NO.	ST-K1330-D
SCALE	AS SHOWN
SHEET NO.	



- LEGEND:**
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ➡ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1½H:1V)

CURVE MER-FRE 1 SB (A)

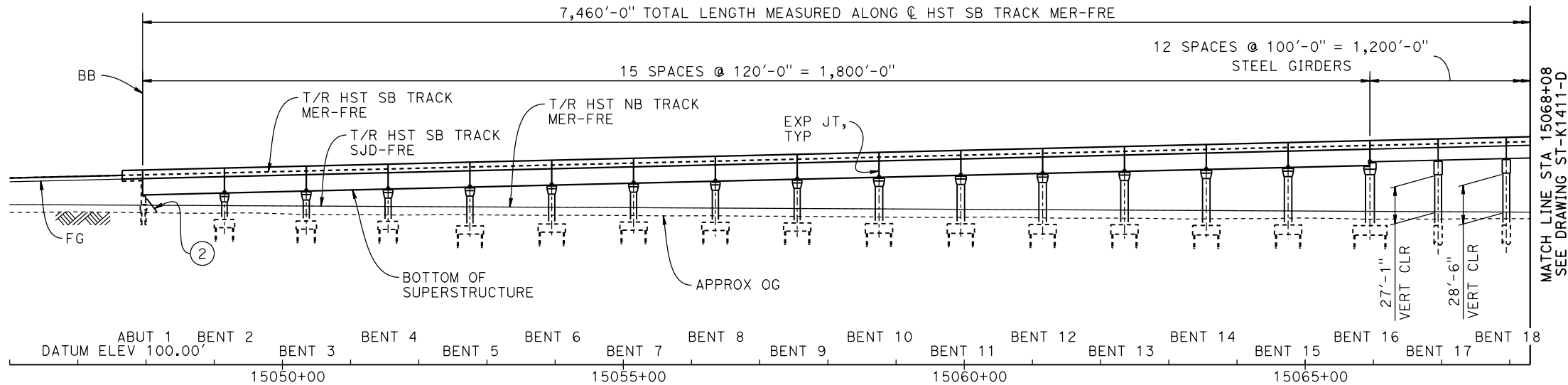
R = 10,350.00'
LS = 1,500.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

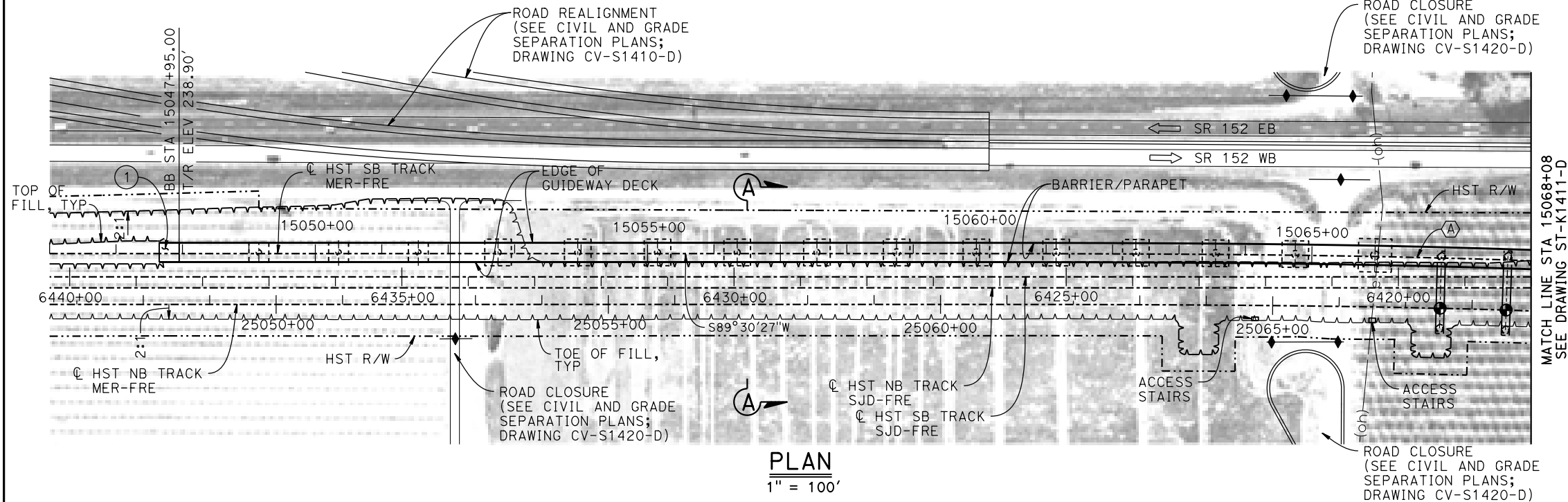
1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ROAD 12	15120+75	20'X16.5'	2-WAY
3. <u> X </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



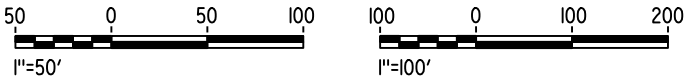
DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'



NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWINGS ST-K3410-D TO ST-K3412-D.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1410-D TO CV-S1430-D.
5. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1410-D TO CV-S1430-D.
6. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; SEE DRAWINGS CV-S1410-D TO CV-S1430-D.
7. FOR ROAD 12 UNDERPASS GENERAL PLAN AND TYPICAL SECTION, SEE DRAWINGS ST-K1430-D.



MF-ST-K1410-D.dgn

15-AUG-2016 8:36

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

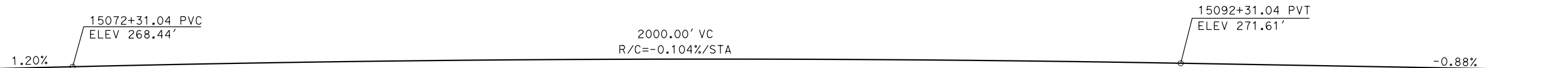
**NOT FOR
CONSTRUCTION**



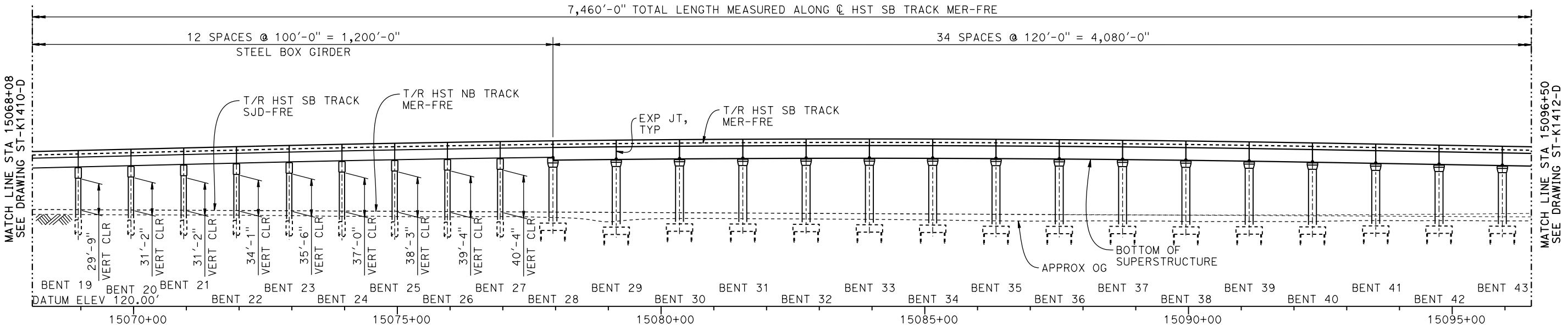
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 1 OF 6

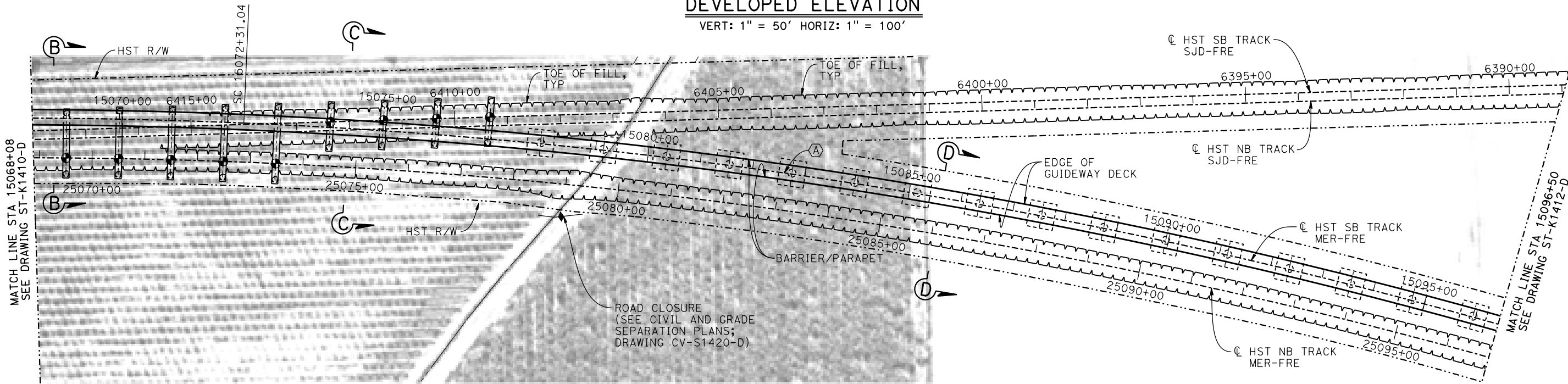
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1410-D
SCALE AS SHOWN
SHEET NO.



TOP OF RAIL PROFILE (C HST SB TRACK MER-FRE)
NO SCALE

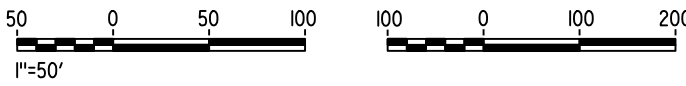


DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'



PLAN
1" = 100'

NOTES:
1. FOR GENERAL NOTES AND LEGEND, SEE DRAWING ST-K1410-D.



15-AUG-2016 8:37 MF-ST-K1411-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. BRATT
DRAWN BY
A. M.
CHECKED BY
K. CHARAN
IN CHARGE
C. LEMLEY
DATE
08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 2 OF 6

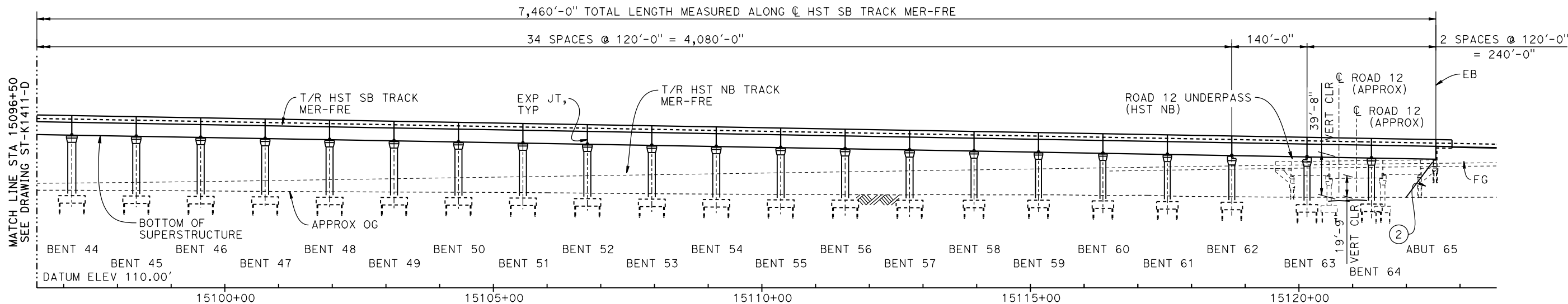
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1411-D
SCALE
AS SHOWN
SHEET NO.

15136+25.00 PVC
ELEV 232.87'

-0.88%

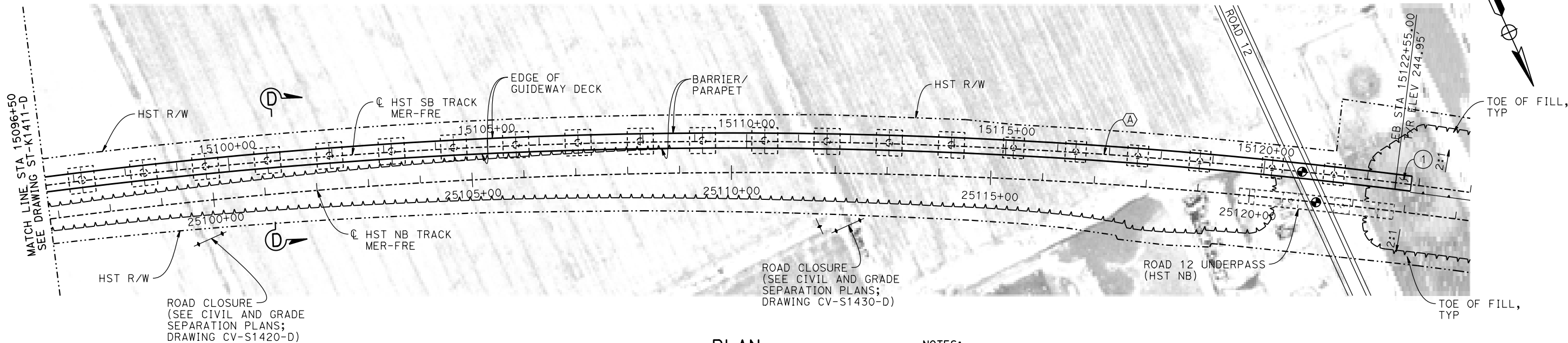
TOP OF RAIL PROFILE (CL HST SB TRACK MER-FRE)

NO SCALE



DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'

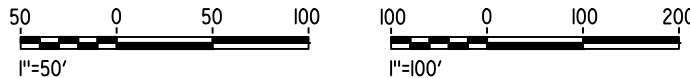


PLAN

1" = 100'

NOTES:

- FOR GENERAL NOTES AND LEGEND, SEE DRAWING ST-K1410-D.



MF-ST-K1412-D.dgn

15-AUG-2016 8:37

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



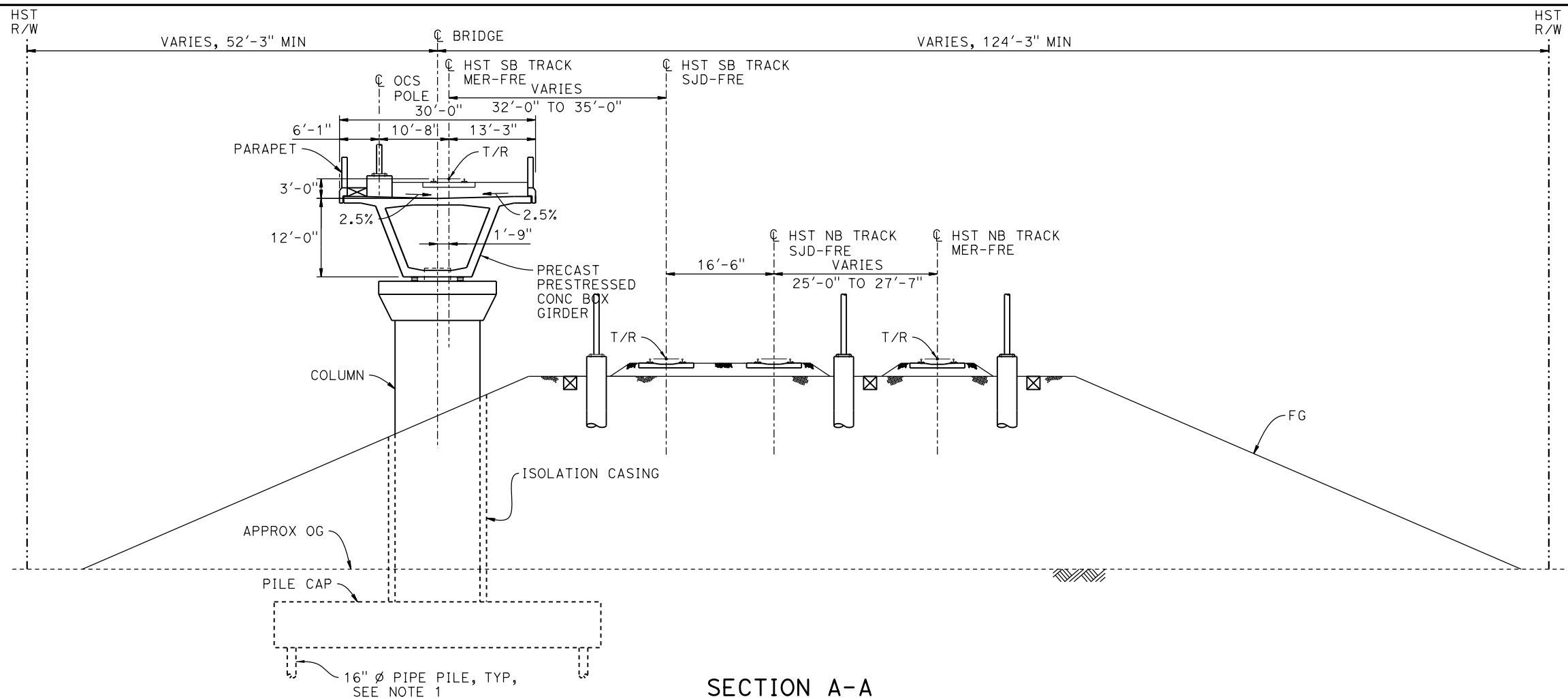
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 3 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1412-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:49 MF-ST-K3410-D.dgn



BENT COLUMN SCHEDULE				
BENT	COLUMN TYPE	CIDH TYPE	"A"	TYP SECTION, SHEET
2 - 4	8'-0" \varnothing			A-A, ST-K3410-D
5 - 9	9'-0" \varnothing			A-A, ST-K3410-D
10 - 15	11'-0" \varnothing			A-A, ST-K3410-D
16	13'-0" \varnothing			A-A, ST-K3410-D
17	2 - 10'-0" \varnothing	12'-0" \varnothing	108'-0"	B-B, ST-K3411-D
18	2 - 10'-0" \varnothing	12'-0" \varnothing	111'-0"	B-B, ST-K3411-D
19	2 - 10'-0" \varnothing	12'-0" \varnothing	115'-0"	B-B, ST-K3411-D
20	2 - 10'-0" \varnothing	12'-0" \varnothing	120'-0"	B-B, ST-K3411-D
21	2 - 10'-0" \varnothing	12'-0" \varnothing	124'-0"	B-B, ST-K3411-D
22	2 - 10'-0" \varnothing	12'-0" \varnothing	130'-0"	B-B, ST-K3411-D
23	2 - 10'-0" \varnothing	12'-0" \varnothing	137'-0"	B-B, ST-K3411-D
24 - 27	2 - 10'-0" \varnothing	12'-0" \varnothing	78'-0"	C-C, ST-K3412-D
28 - 45	15'-0" \varnothing			D-D, ST-K3412-D
46 - 58	13'-0" \varnothing			D-D, ST-K3412-D
59 - 64	11'-0" \varnothing			D-D, ST-K3412-D

SECTION A-A
1" = 10'

- NOTES:**
- PILE LENGTHS TO BE DETERMINED.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0054-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

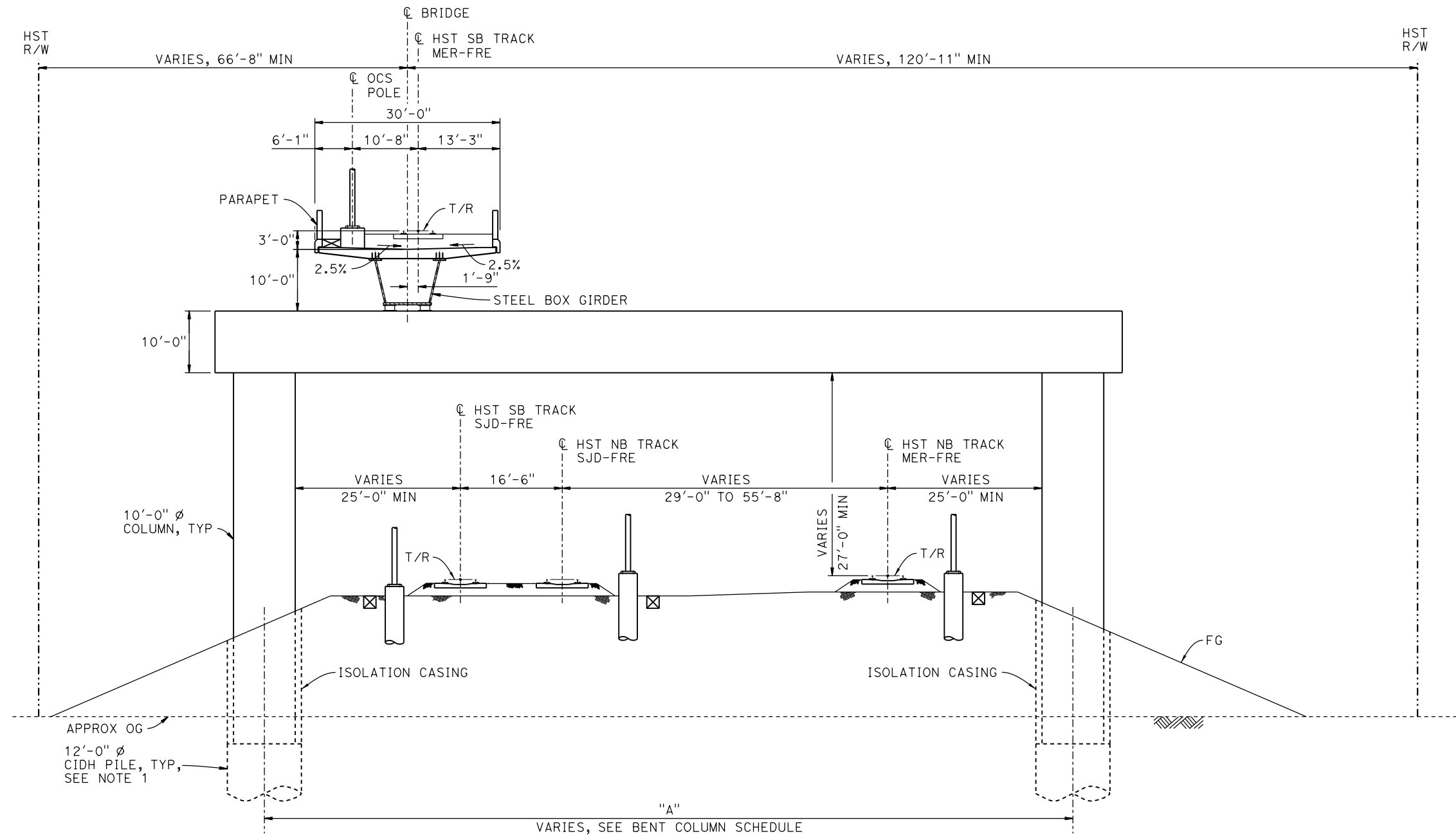
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 4 OF 6

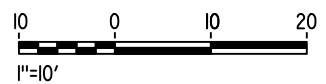
CONTRACT NO. HSR08-05
DRAWING NO. ST-K3410-D
SCALE AS SHOWN
SHEET NO.



SECTION B-B
1" = 10'

NOTES:

1. DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0054-D.



p005133g 15-AUG-2016 8:49 MF-ST-K3411-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	M. BRATT
DRAWN BY	A. M.
CHECKED BY	K. CHARAN
IN CHARGE	C. LEMLEY
DATE	08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

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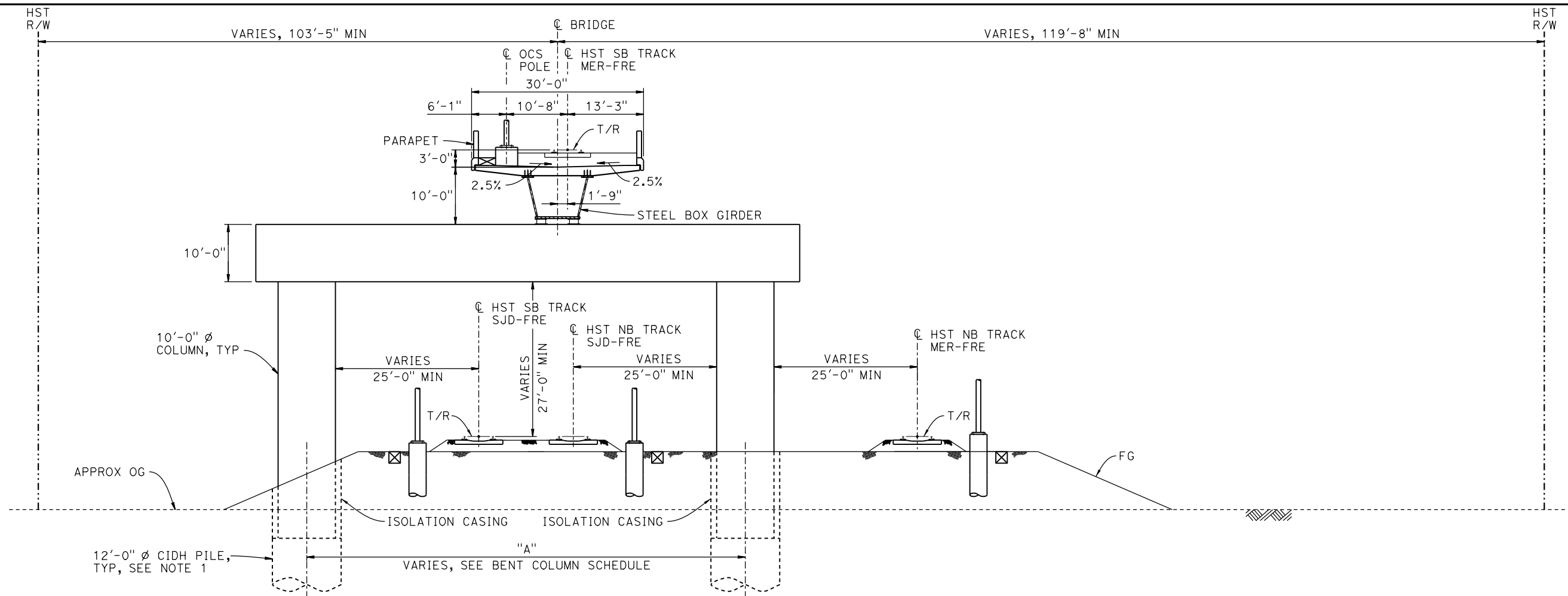
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

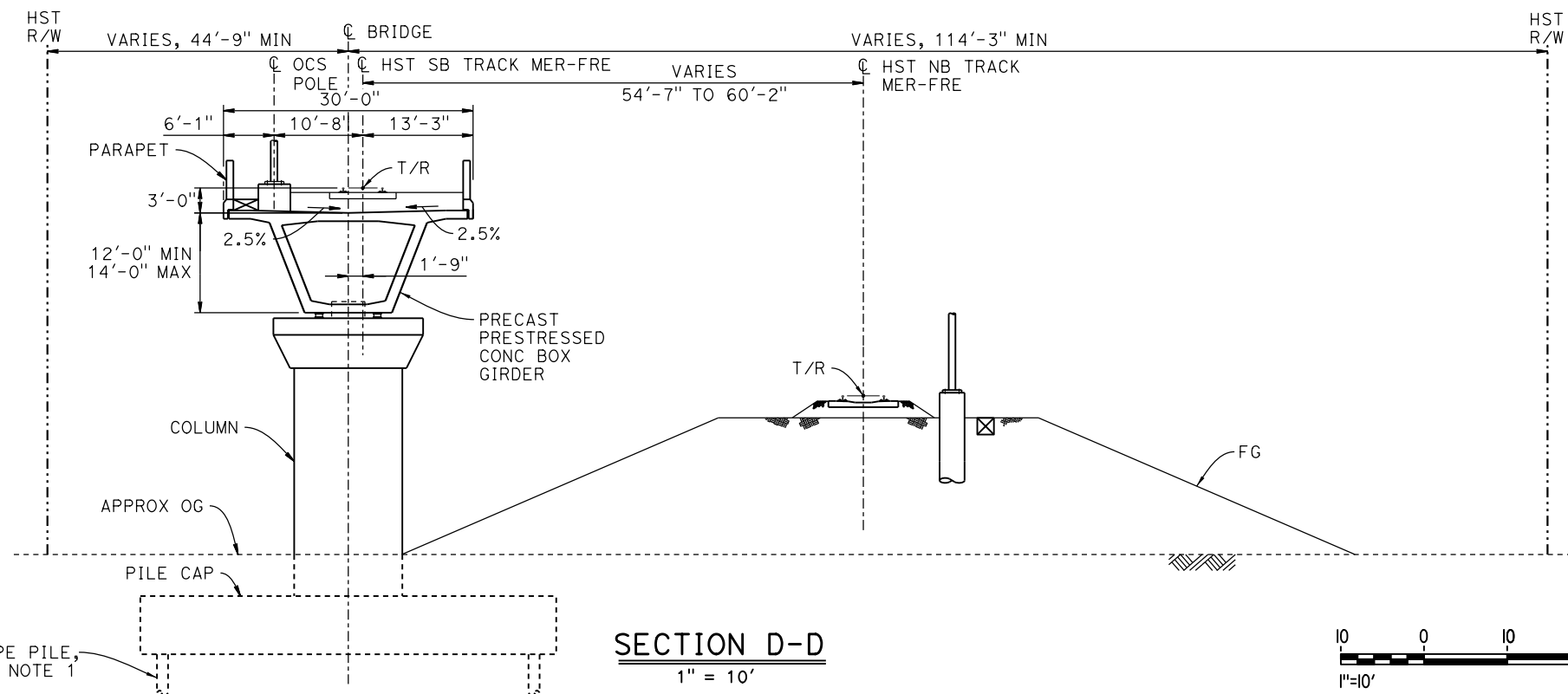
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 5 OF 6

CONTRACT NO.	HSR08-05
DRAWING NO.	ST-K3411-D
SCALE	AS SHOWN
SHEET NO.	

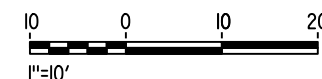
p005133g 15-AUG-2016 8:49 MF-ST-K3412-D.dgn



SECTION C-C
1" = 10'



SECTION D-D
1" = 10'



NOTES:

1. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0054-D.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

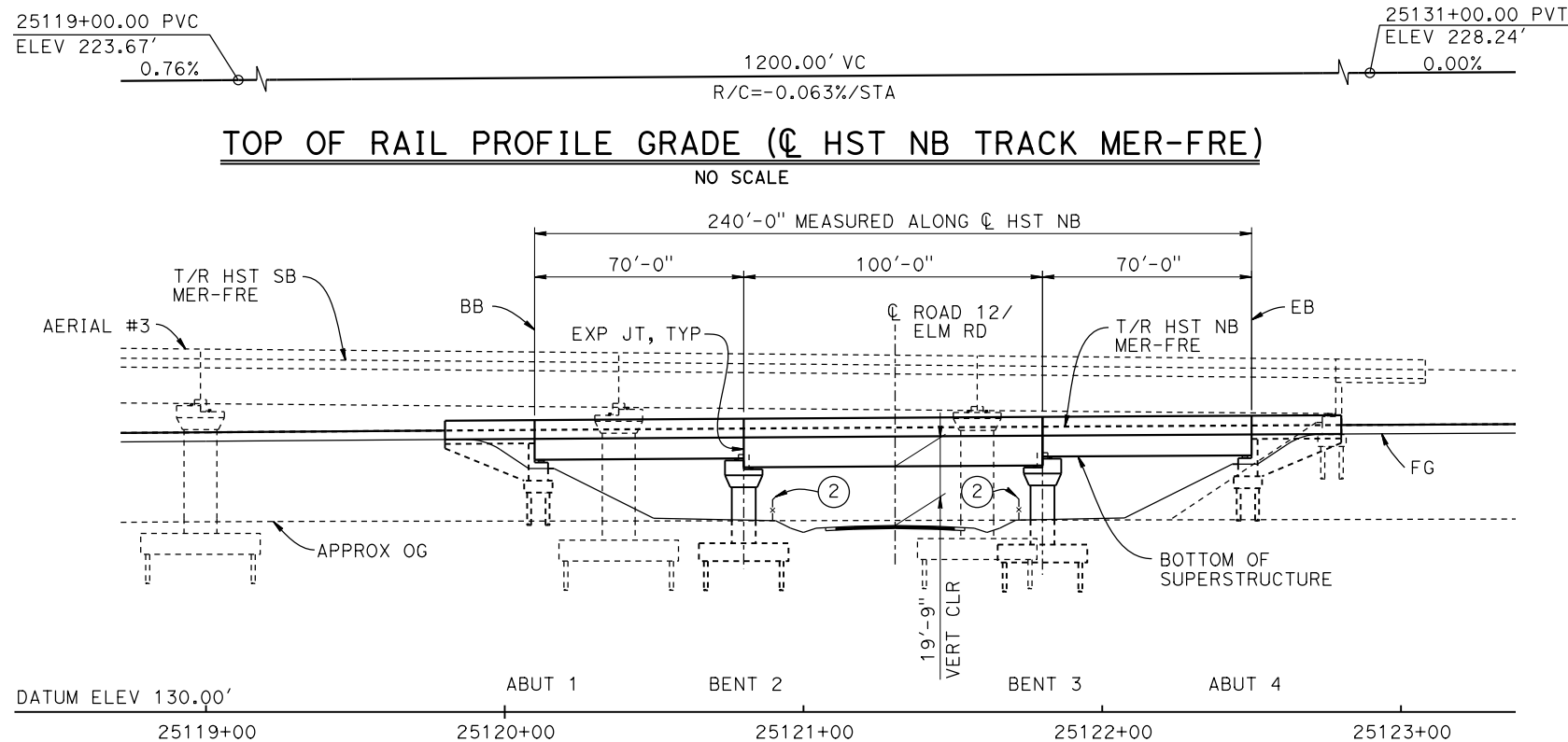
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

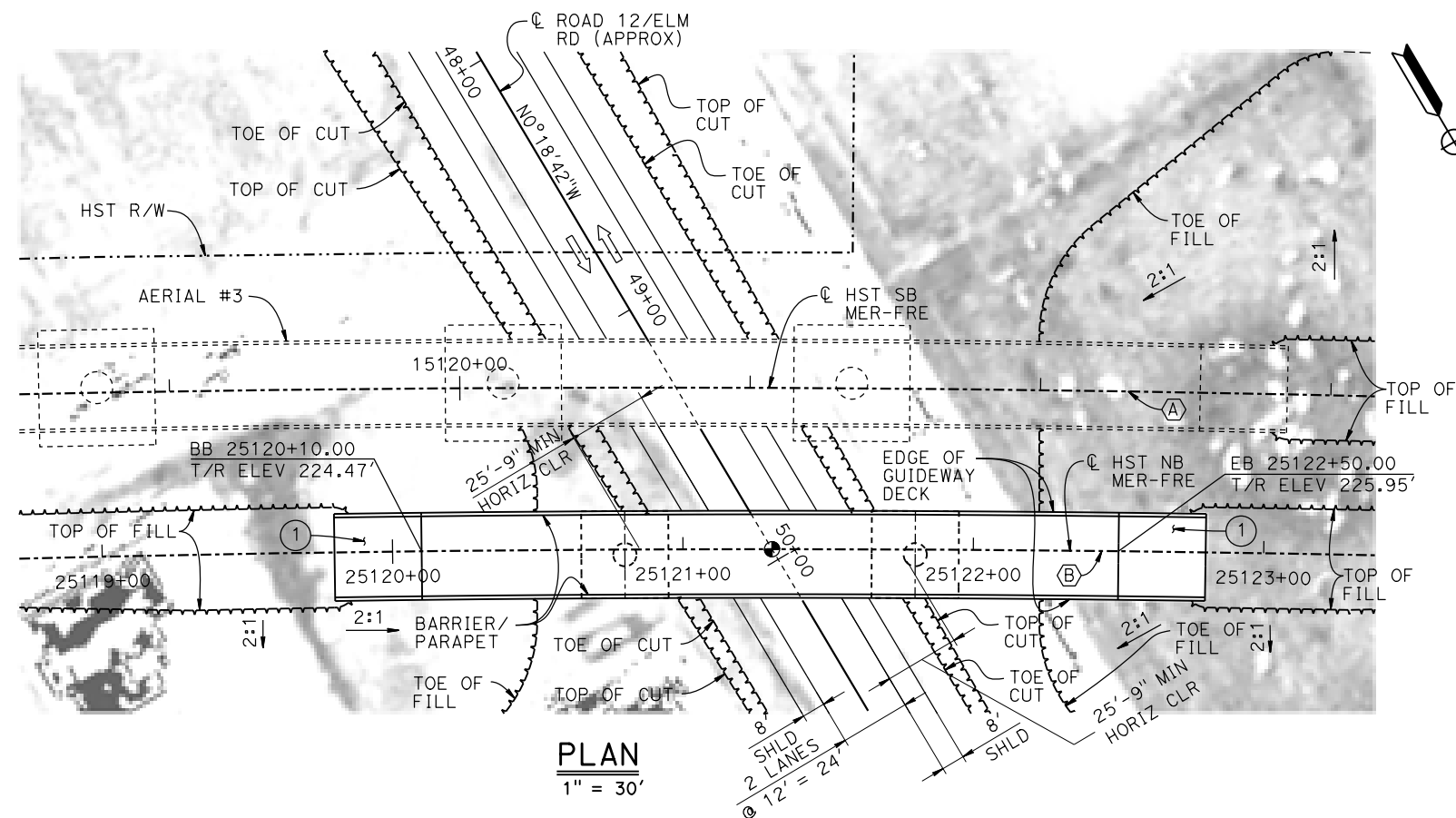
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTIONS (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 6 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3412-D
SCALE AS SHOWN
SHEET NO.



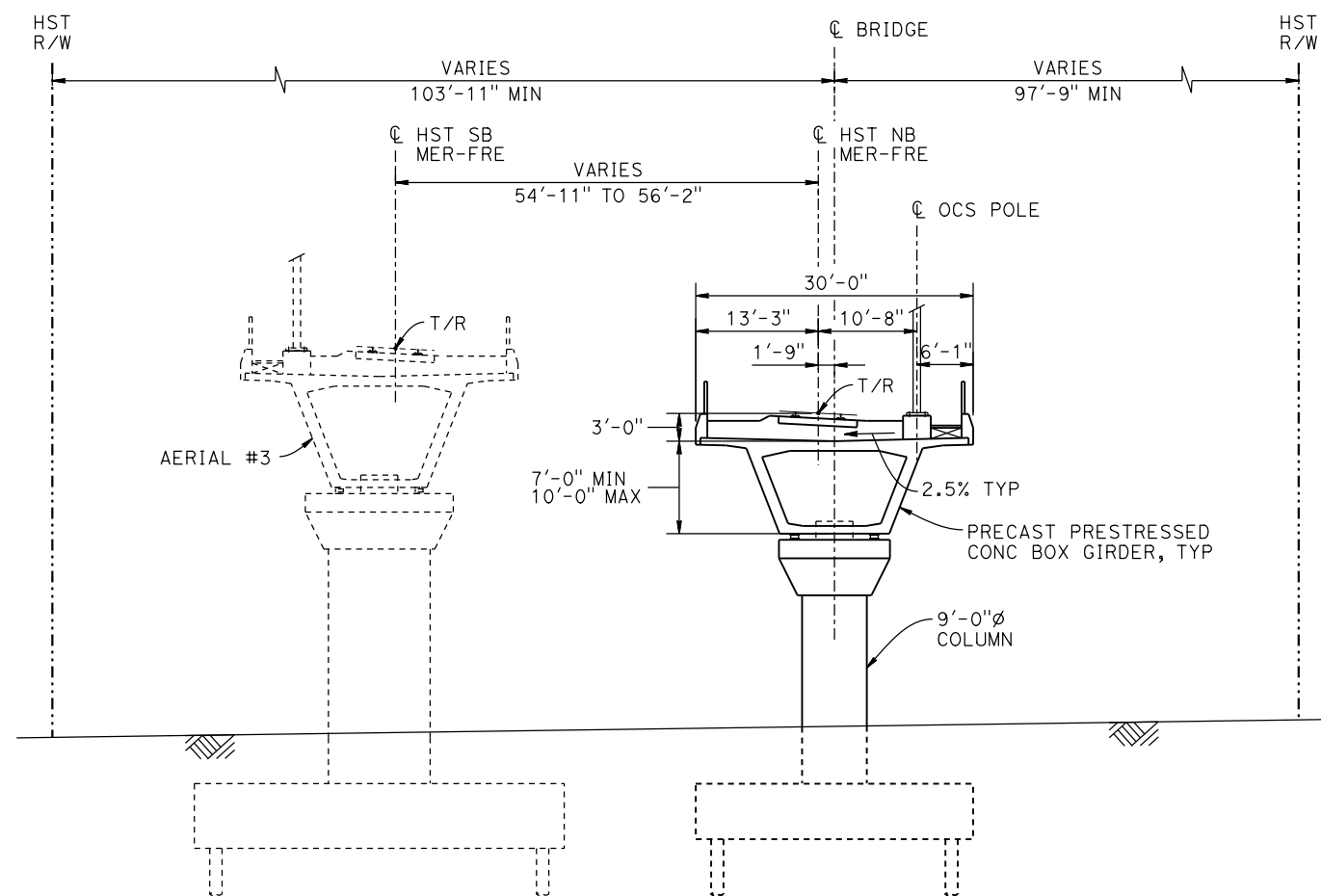
DEVELOPED ELEVATION

1"=30'



PLAN

1" = 30'



TYPICAL SECTION

1" = 10'

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1430-D.
3. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0054-D AND TT-B0055-D.
4. FOR AERIAL #3 GENERAL PLANS AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1410-D THROUGH ST-K1412-D AND ST-K3410-D THROUGH ST-K3412-D.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② AR FENCE, SEE TRACK PLANS; DRAWING TT-B0020-D

CURVE MER-FRE 1 SB (A)

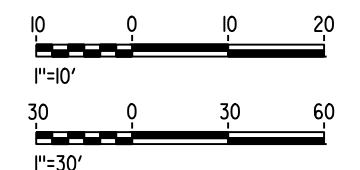
R = 10,350.00'
LS = 1,500.00'

CURVE MER-FER 1 NB (B)

R = 10,300.00'
LS = 1,500.00'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
STREET OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
ROAD 12/ELM RD	25121+31	32'X16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



MF-ST-K1430-D.dgn

15-AUG-2016 8:38

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

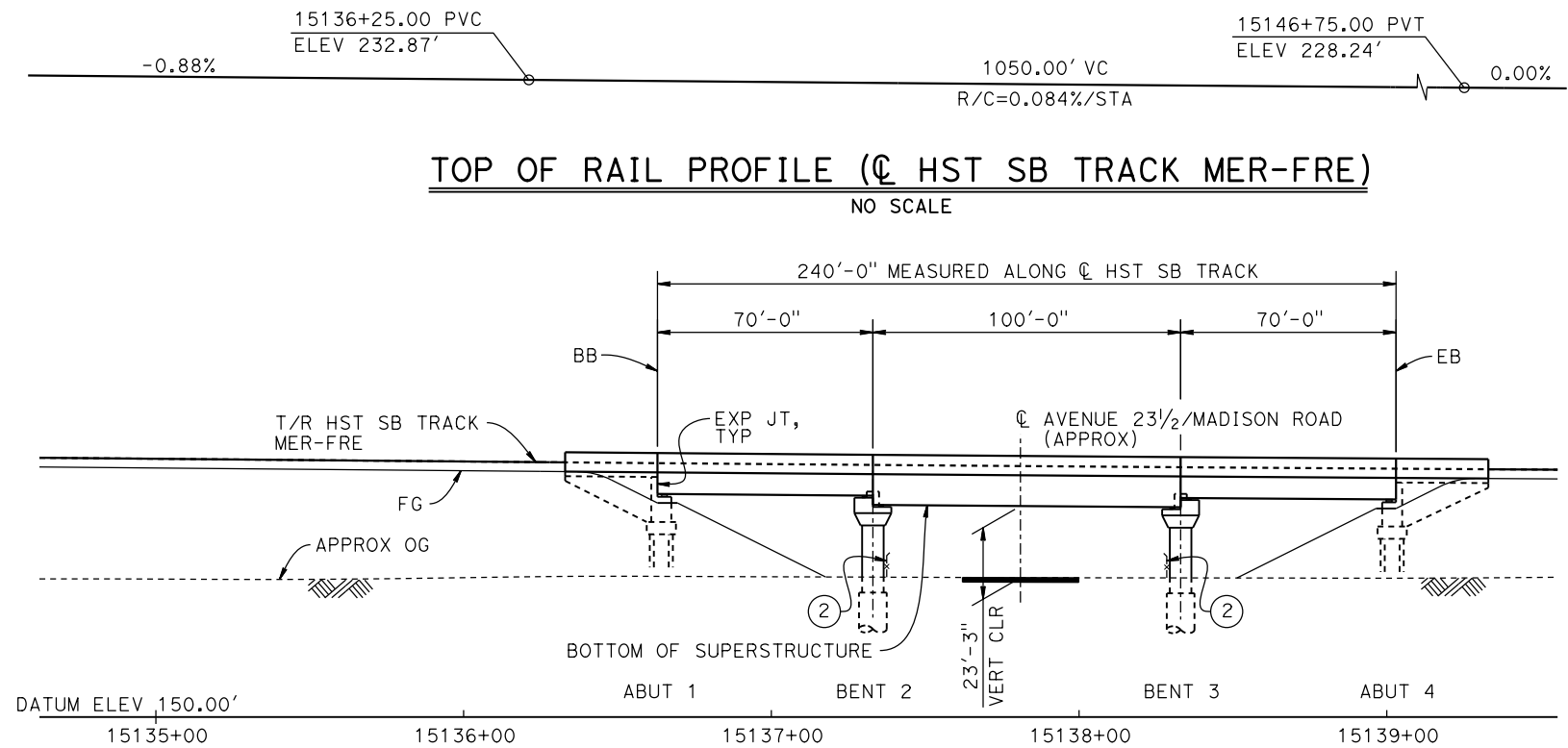
NOT FOR
CONSTRUCTION



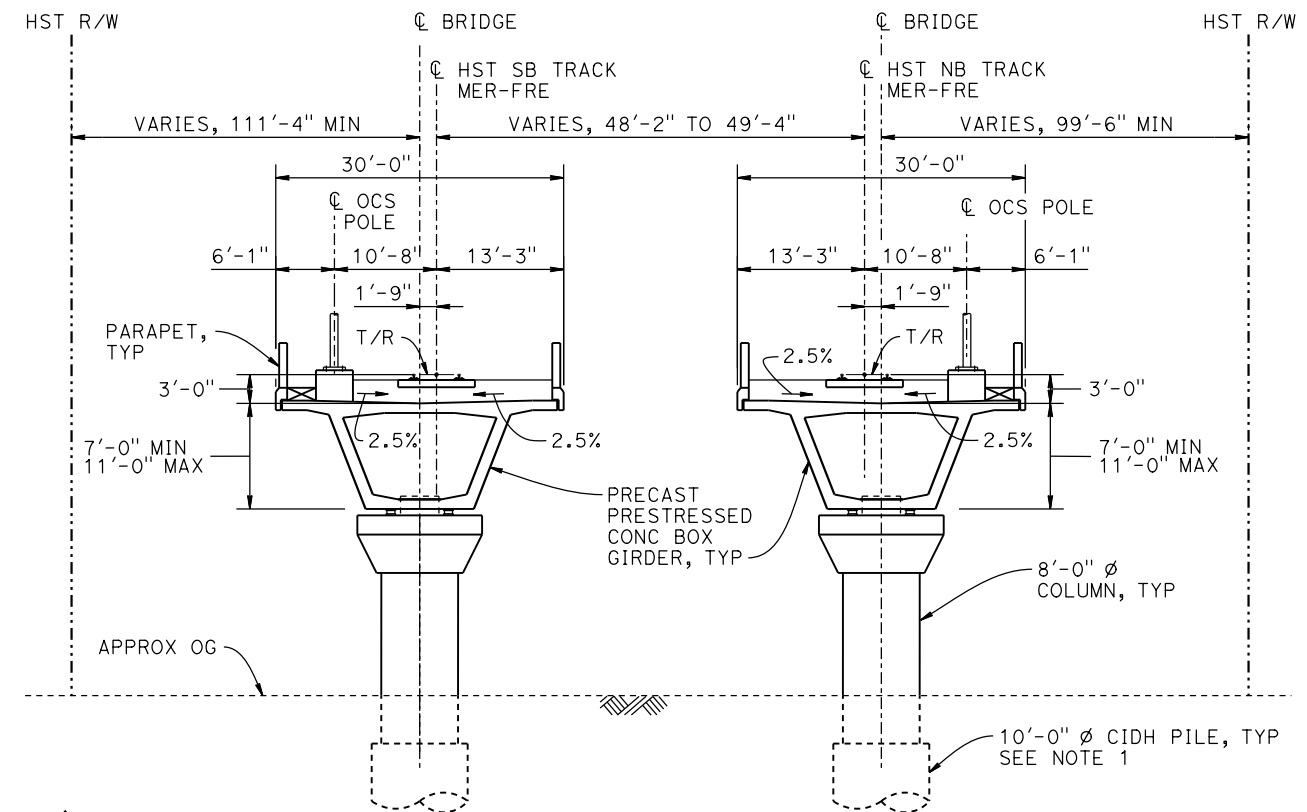
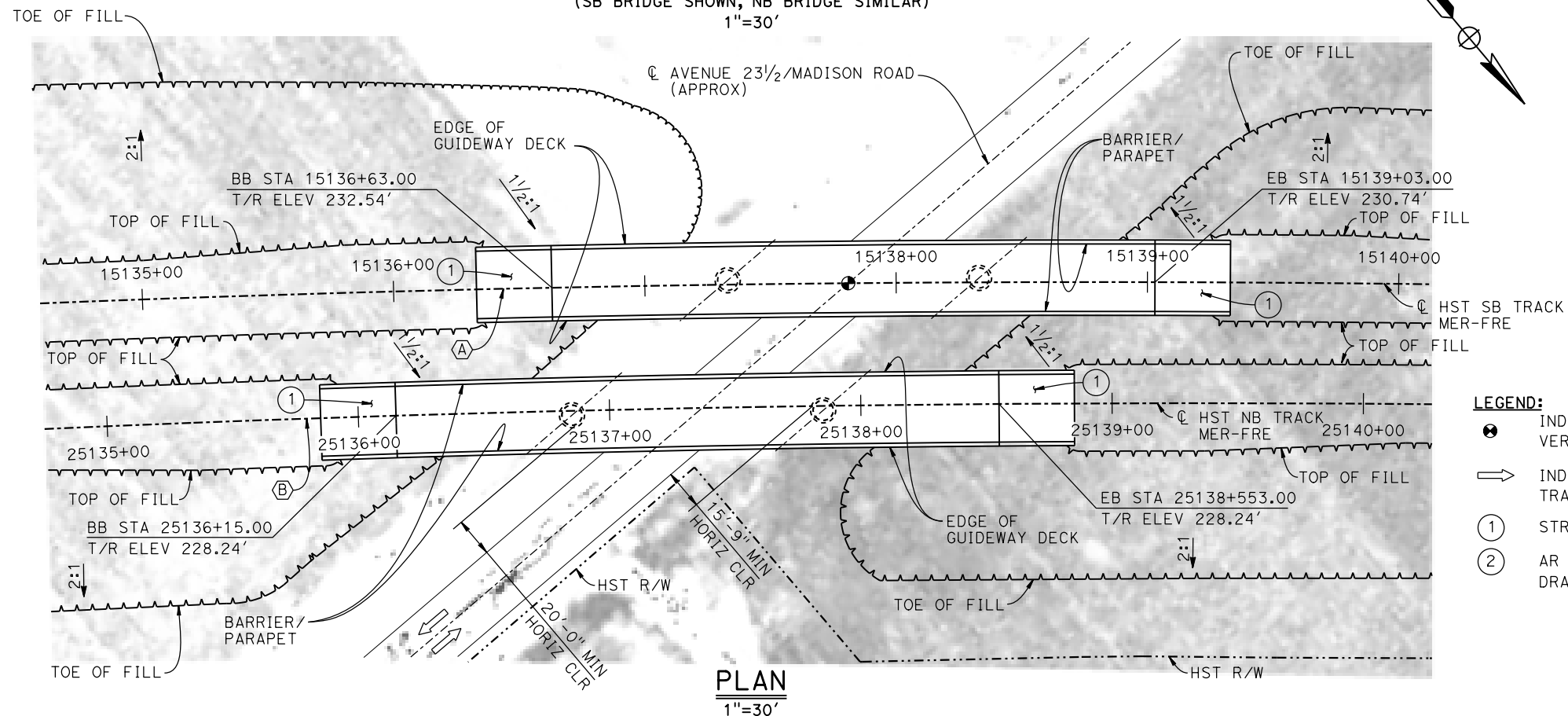
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ROAD 12 UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1430-D
SCALE AS SHOWN
SHEET NO.



DEVELOPED ELEVATION
(SB BRIDGE SHOWN, NB BRIDGE SIMILAR)
1"=30'



TYPICAL SECTION
1" = 10'

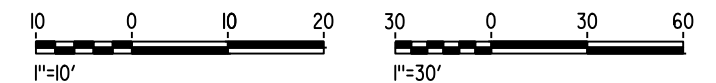
CURVE MER-FRE 1 SB (A)
R = 10,350.00'
LS = 1,500.00'

CURVE MER-FRE 1 NB (B)
R = 10,300.00'
LS = 1,500.00'

- LEGEND:**
- ⊗ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ➡ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② AR FENCE, SEE TRACK PLANS; DRAWING TT-B0020-D

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1430-D.
- FOR TRACK SUPERELEVATION, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0054-D AND TT-B0055-D.



TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. <u> </u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
AVENUE 23 1/2 / MADISON ROAD	15137+81	32'X16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 09/02/2016

RECORD SET
15% DESIGN
SUBMITTAL

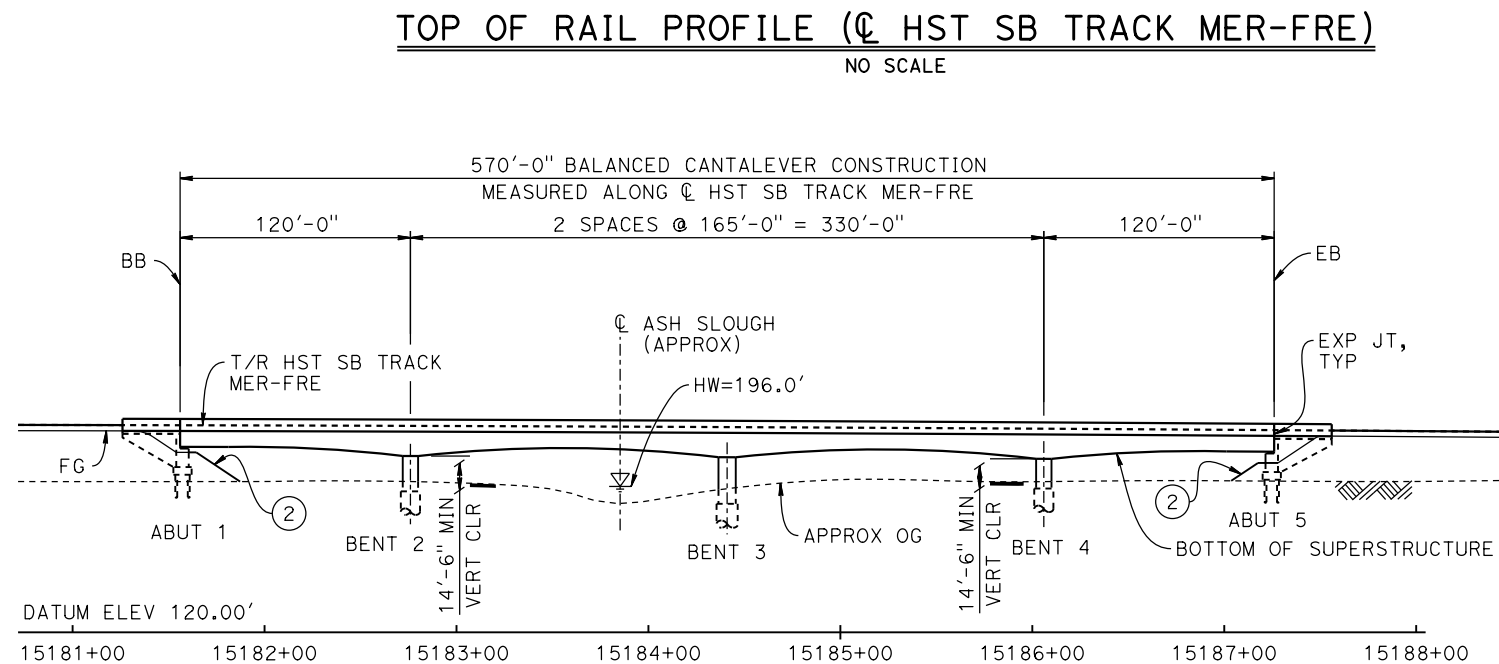
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
MADISON ROAD (AVENUE 23 1/2) UNDERPASS

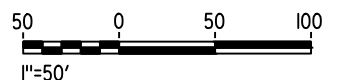
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1435-D
SCALE AS SHOWN
SHEET NO.



R = 10300.00'
LS = 1500.00'

(2) SLOPE PAVING (1½H:1V)

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3440-D.
3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1440-D.
4. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	M. BRATT
DRAWN BY	A. M.
CHECKED BY	K. CHARAN
IN CHARGE	C. LEMLEY
DATE	08/12/2016

**NOT FOR
CONSTRUCTION**

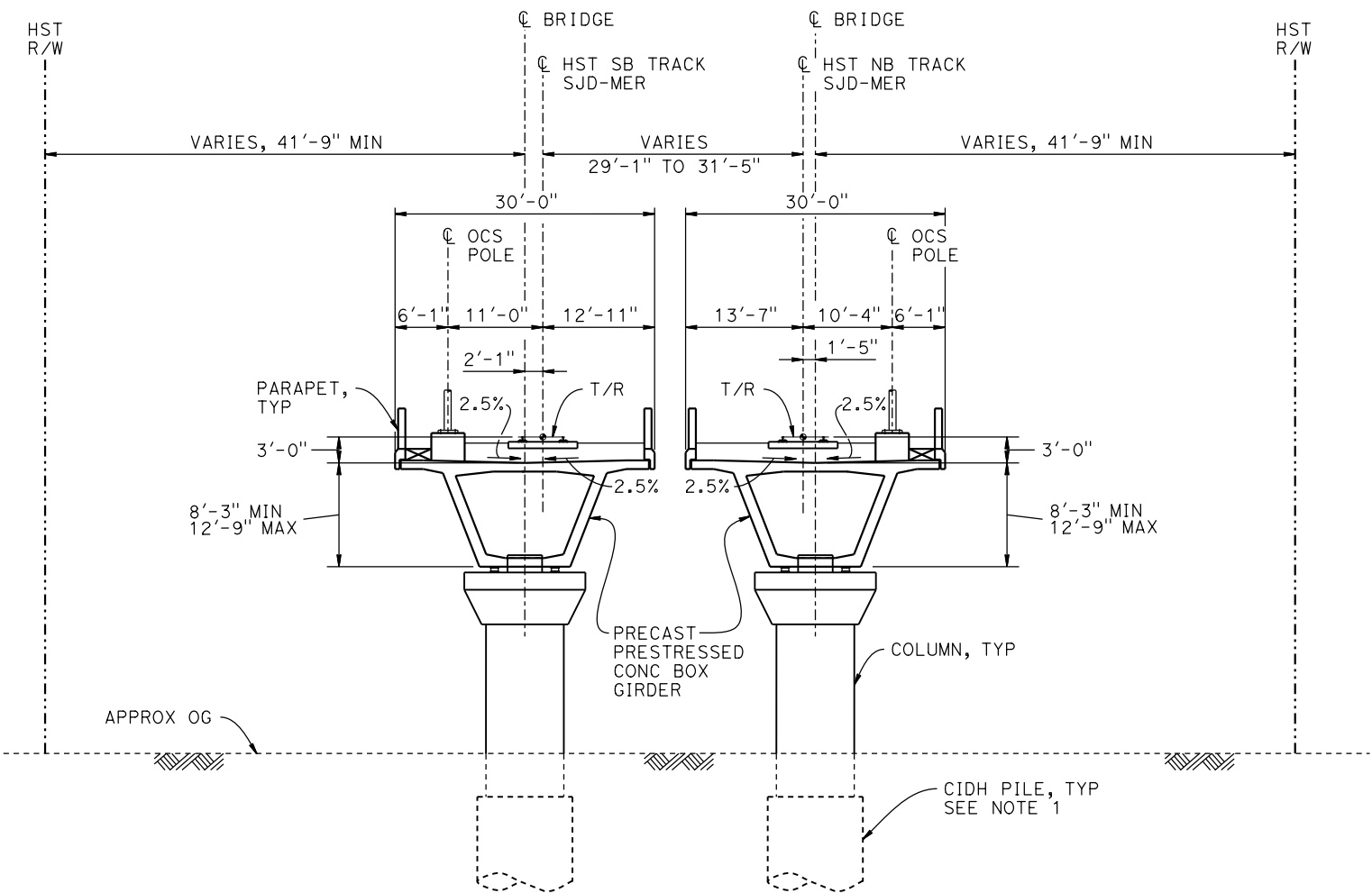


CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ASH SLOUGH BRIDGE - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1440-D
SCALE AS SHOWN
SHEET NO.

p005133d

p005133g 15-AUG-2016 8:49 MF-ST-K3440-D.dgn



TYPICAL SECTION
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2	7'-0" Ø	9'-0" Ø
3	9'-0" Ø	11'-0" Ø
4	7'-0" Ø	9'-0" Ø

- NOTE:**
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0054-D AND TT-B0055-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

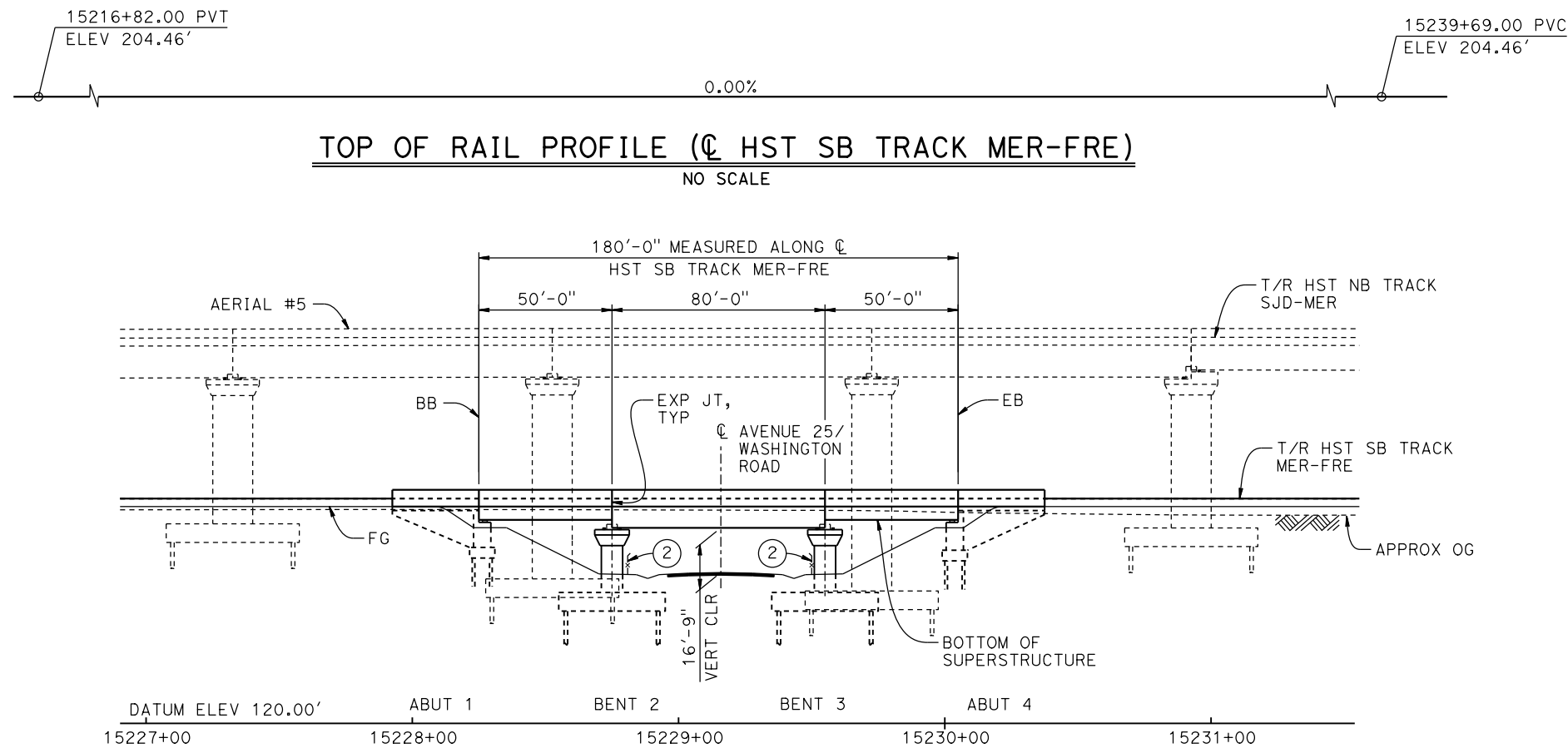


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
ASH SLOUGH BRIDGE - 2 OF 2

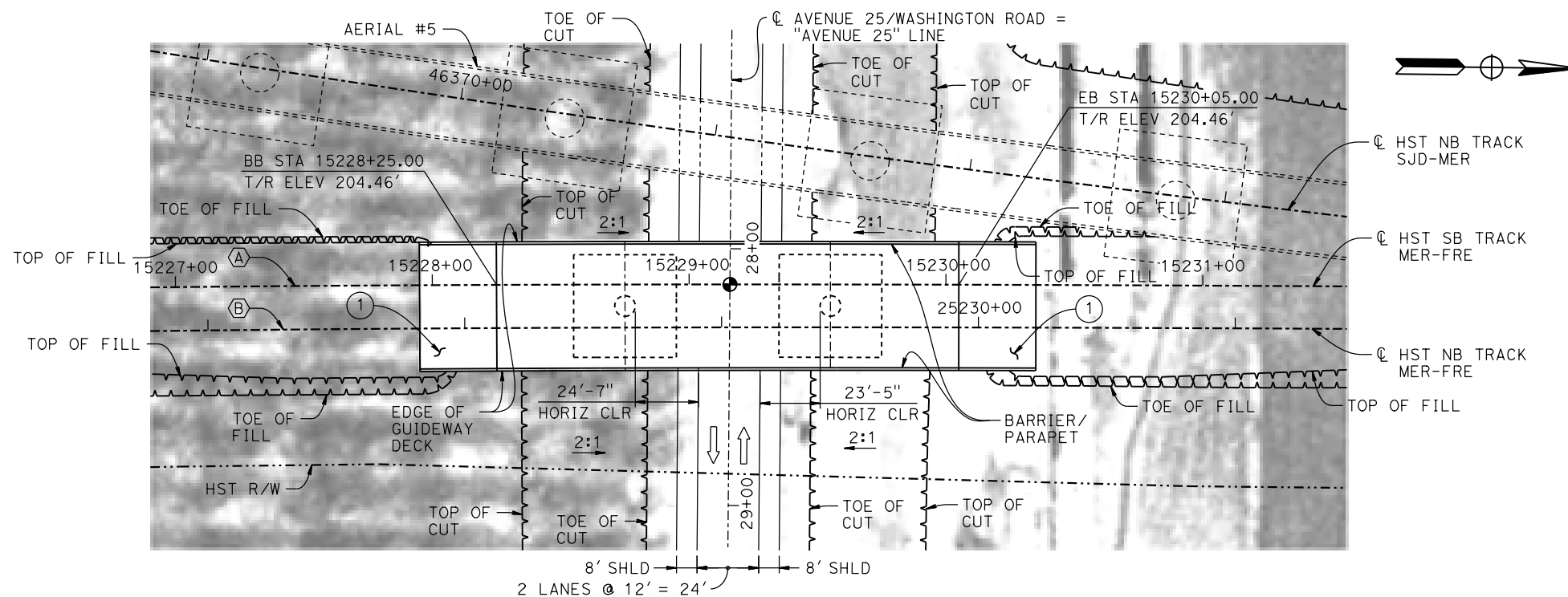
CONTRACT NO. HSR08-05
DRAWING NO. ST-K3440-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:39 MF-ST-K1450-D.dgn



DEVELOPED ELEVATION

1" = 30'



PLAN

1" = 30'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

1. X TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

STREET OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ x VERT)	
AVENUE 25/WASHINGTON ROAD	15229+16	32'x15'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② AR FENCE, SEE TRACK PLANS; DRAWING TT-B0020-D

NOTES:

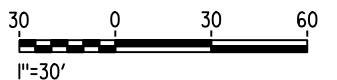
1. FOR TYPICAL SECTION, SEE DRAWING ST-K3450-D.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-D.
3. FOR AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1640-D TO ST-K1643-D, ST-K3640-D AND ST-K3641-D.

CURVE MER-FRE 1 SB (A)

R = 10,350.00'
LS = 1,500.00'

CURVE MER-FRE 1 NB (B)

R = 10,300.00'
LS = 1,500.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

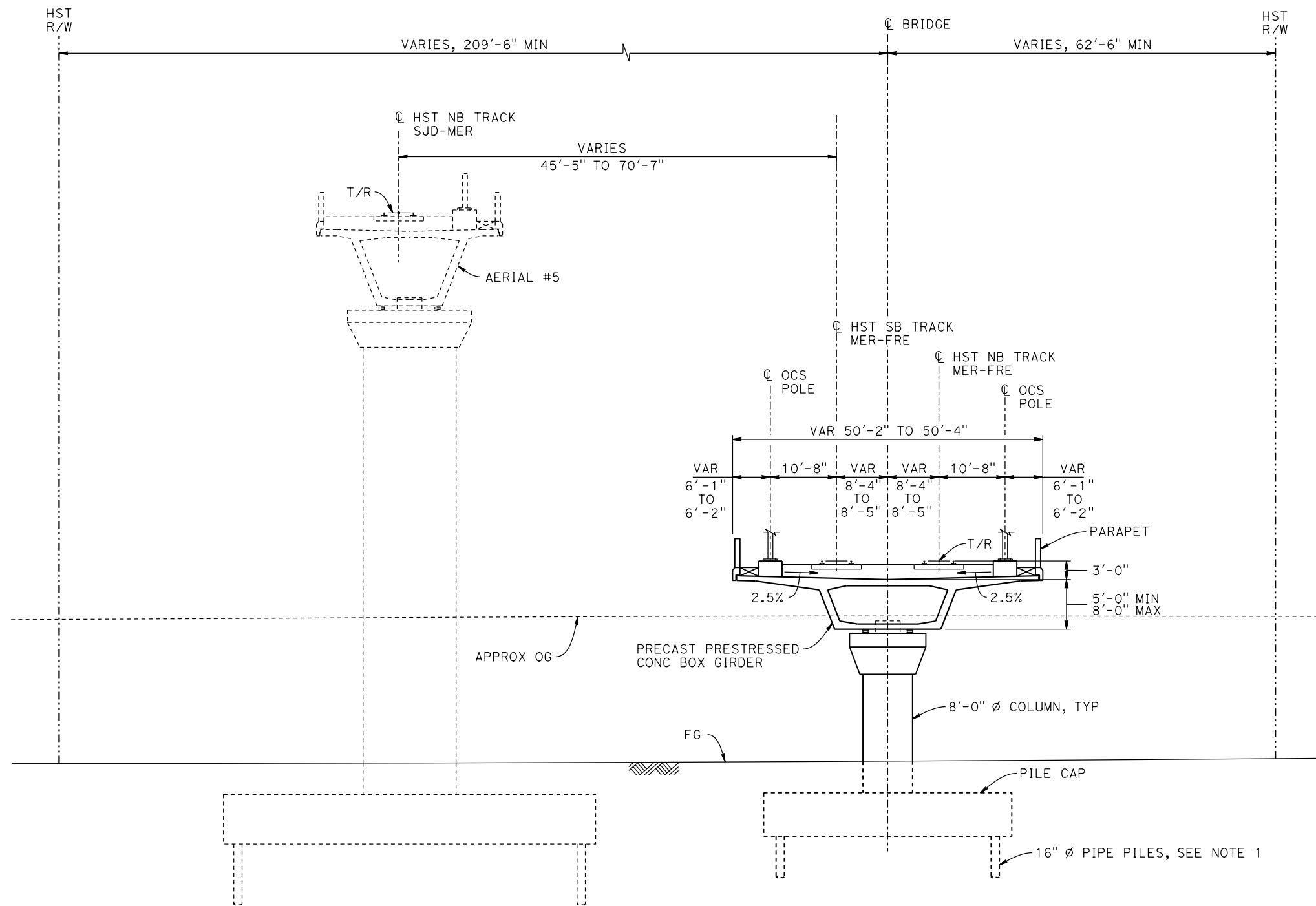
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
WASHINGTON ROAD (AVENUE 25) UNDERPASS - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1450-D
SCALE AS SHOWN
SHEET NO.



TYPICAL SECTION
1"=10'

- NOTES:**
1. 16" \varnothing PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0054-D AND TT-B0055-D.



p005133g 16-AUG-2016 11:28 MF-ST-K3450-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

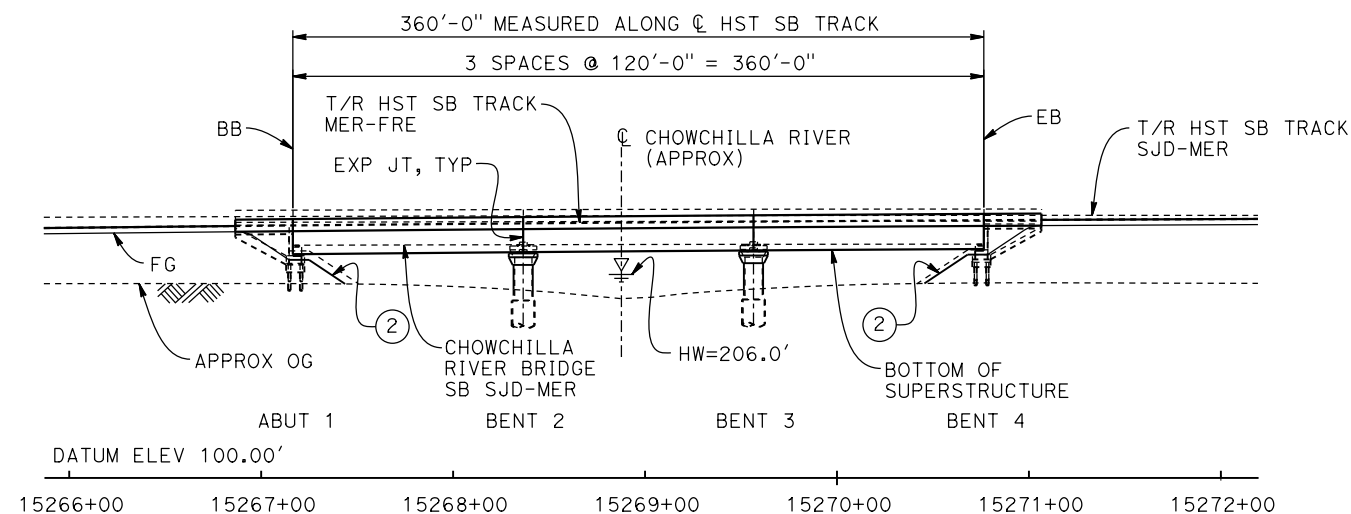
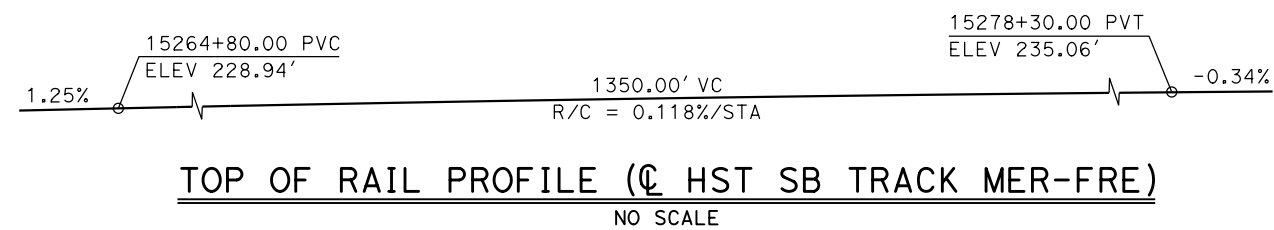
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

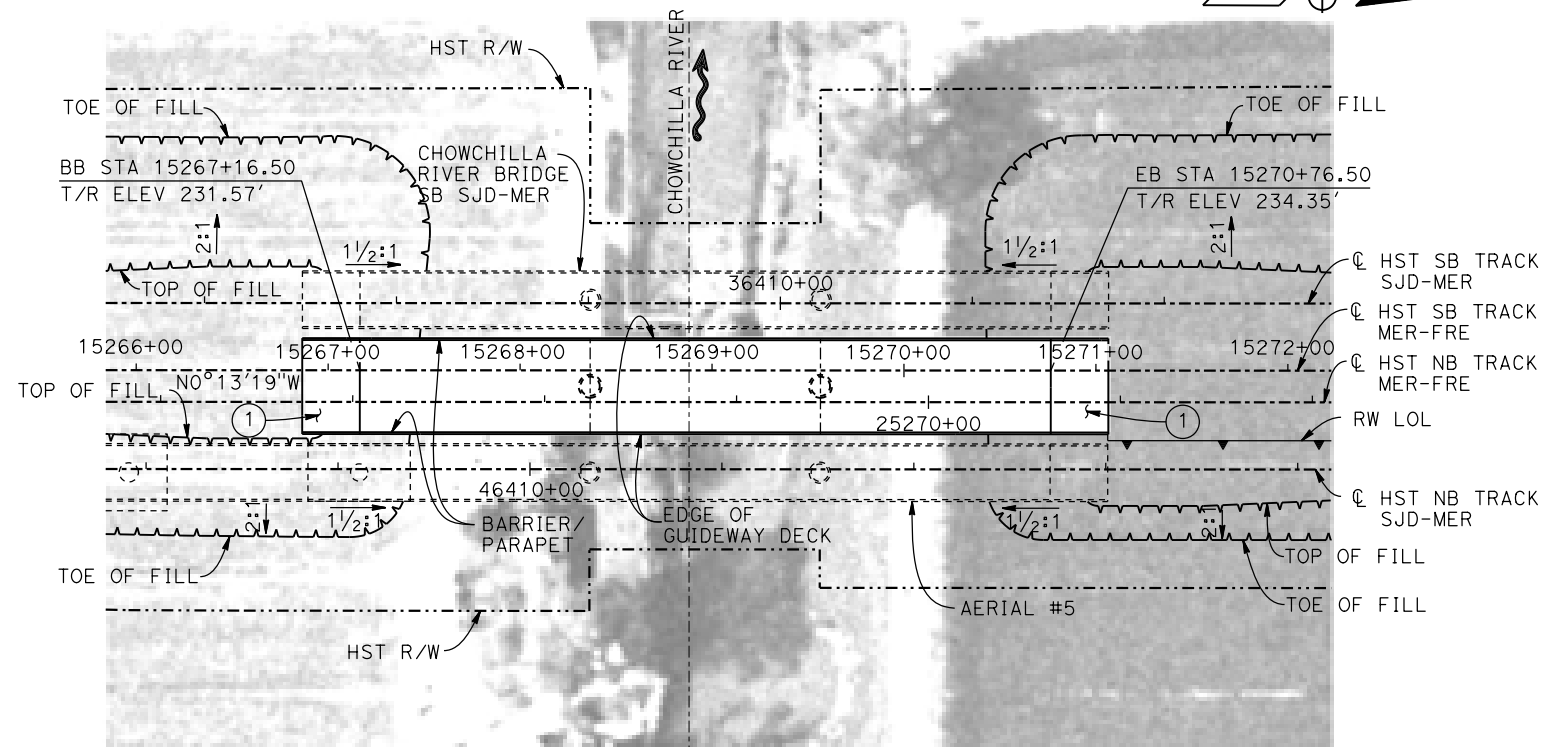
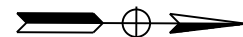
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
WASHINGTON ROAD (AVENUE 25) UNDERPASS - 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3450-D
SCALE AS SHOWN
SHEET NO.



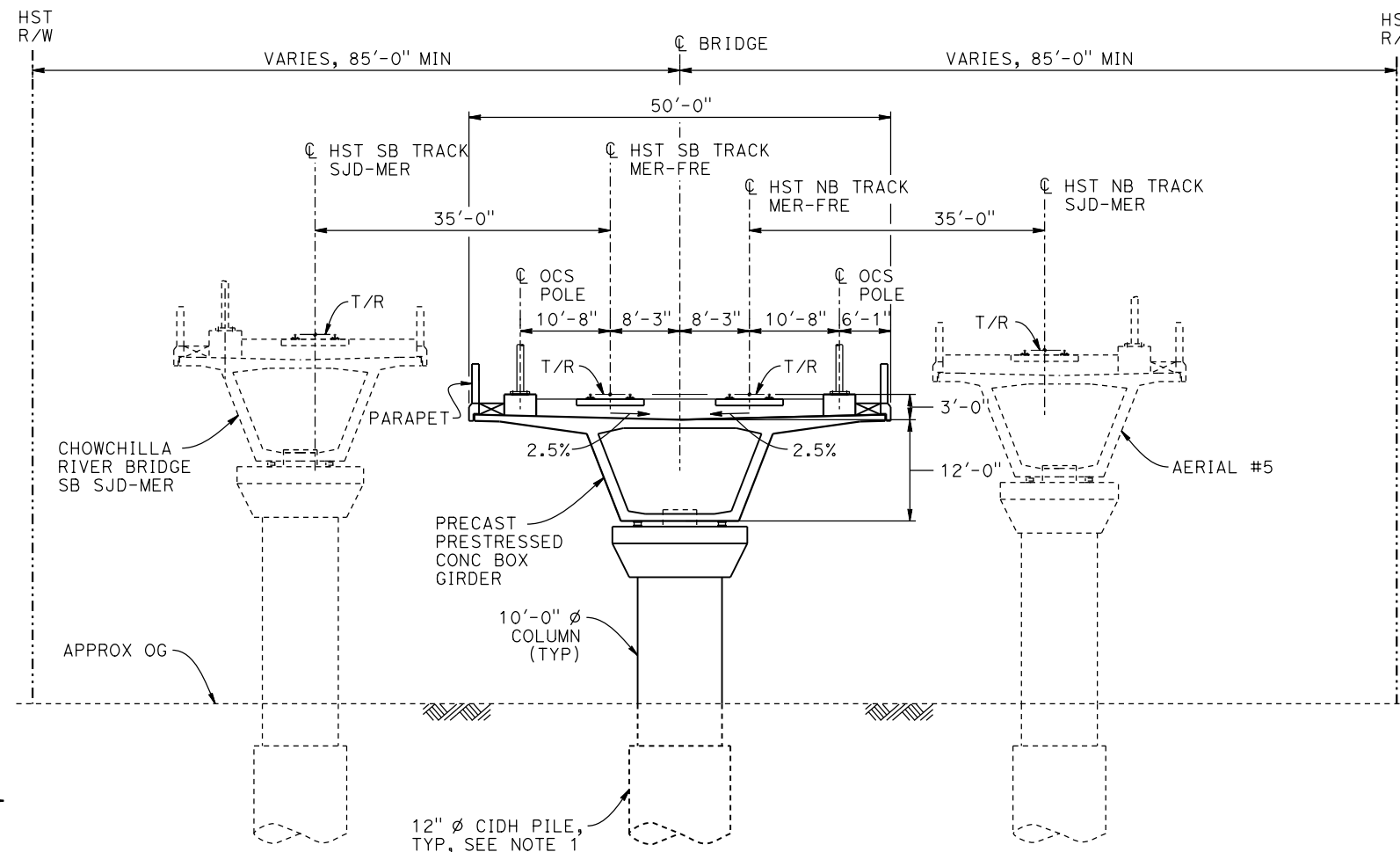
ELEVATION

1" = 50'
(AERIAL #5 NOT SHOWN FOR CLARITY)



PLAN

1" = 50'



TYPICAL SECTION

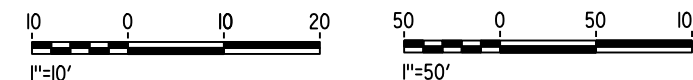
1" = 10'

LEGEND:

- INDICATES DIRECTION OF TRAFFIC
- ~ INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-D.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-D.
- FOR CHOWCHILLA RIVER BRIDGE SB SJD-MER GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1659-D.
- FOR AERIAL #5 GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1640-D TO ST-K1643-D AND ST-K3640-D TO ST-K3641-D.



MF-ST-K1455-D.dgn

16-AUG-2016 7:05

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

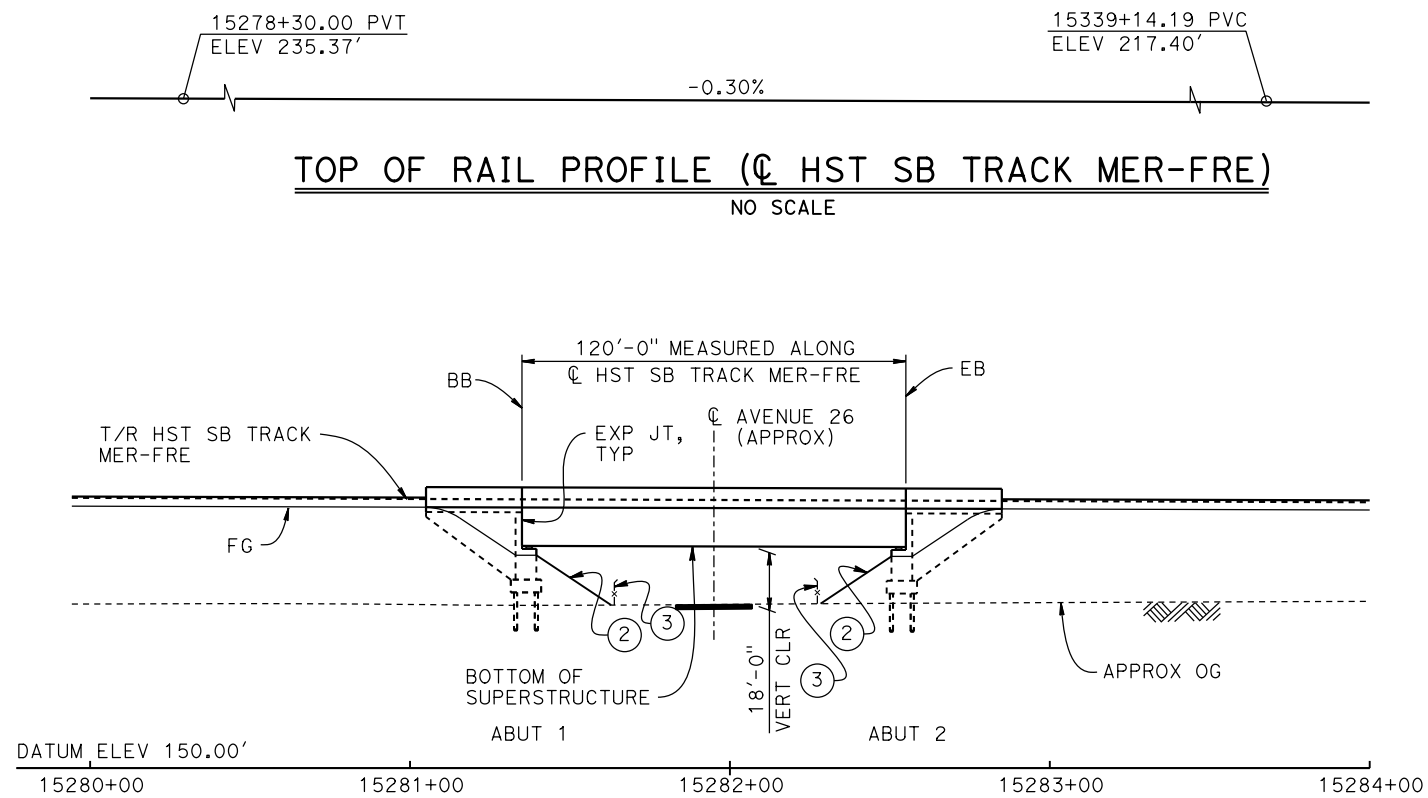


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

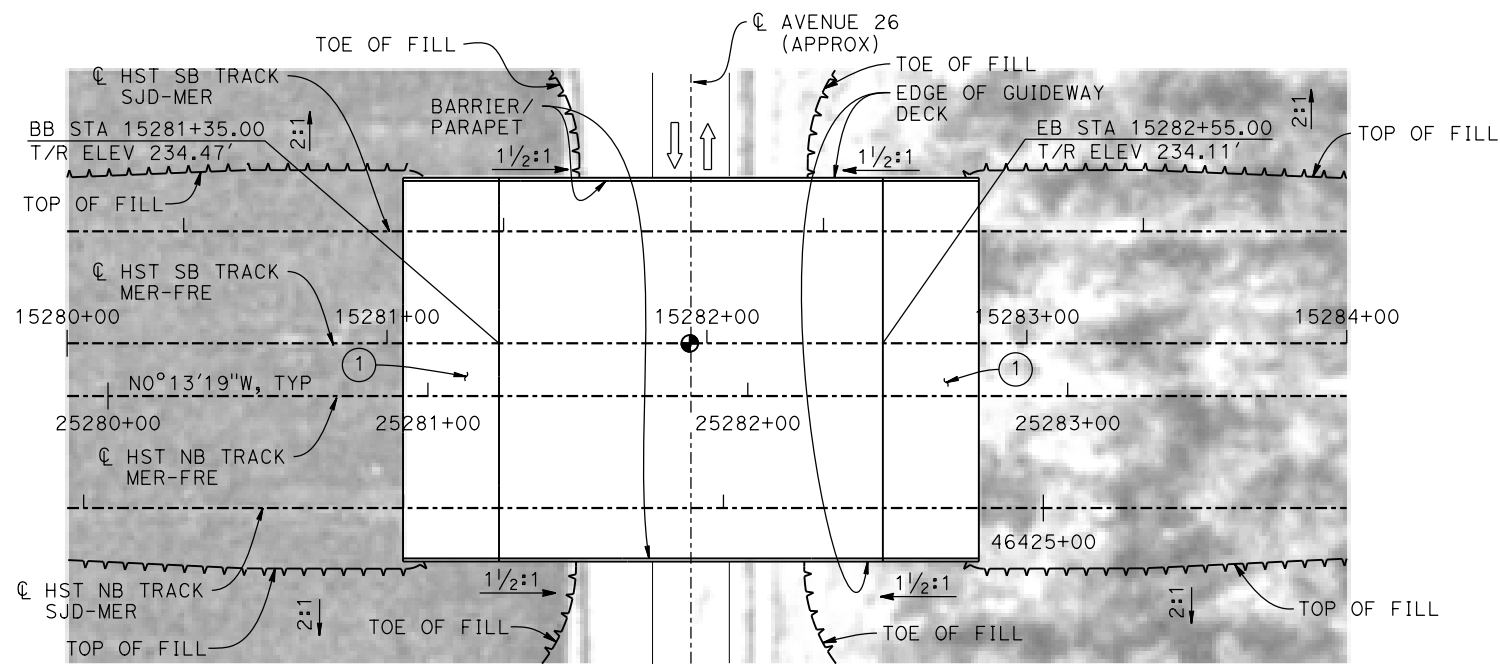
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION**

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CHOWCHILLA RIVER BRIDGE

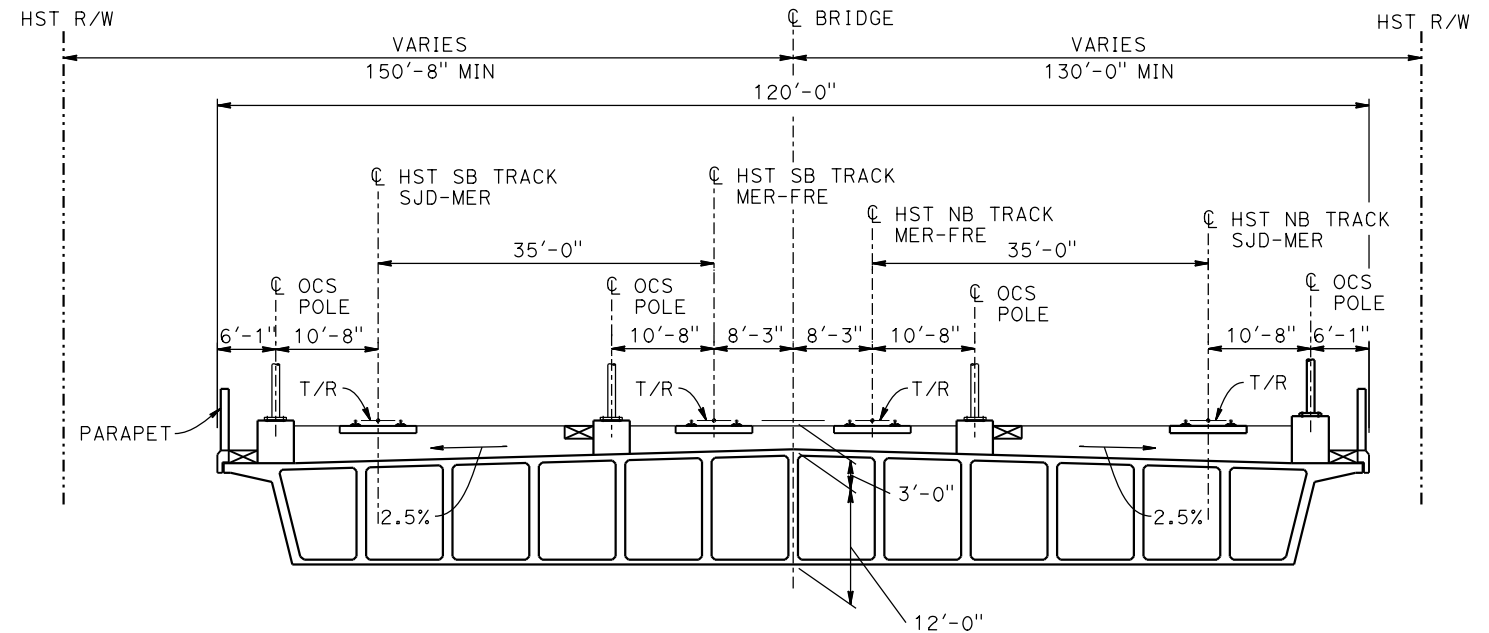
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1455-D
SCALE AS SHOWN
SHEET NO.



ELEVATION
1" = 30'



PLAN
1" = 30'



TYPICAL SECTION
1" = 10'

LEGEND:

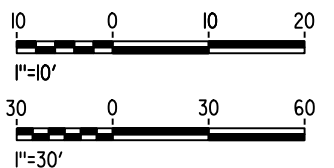
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- STRUCTURE APPROACH
- SLOPE PAVING (1/2H:1V)
- AR FENCE, SEE TRACK PLANS DRAWING TT-B0020-D

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1460-D.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
AVENUE 26	15281+95	32'X16.5'	2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



MF-ST-K1460-D.dgn

15-AUG-2016 8:40

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

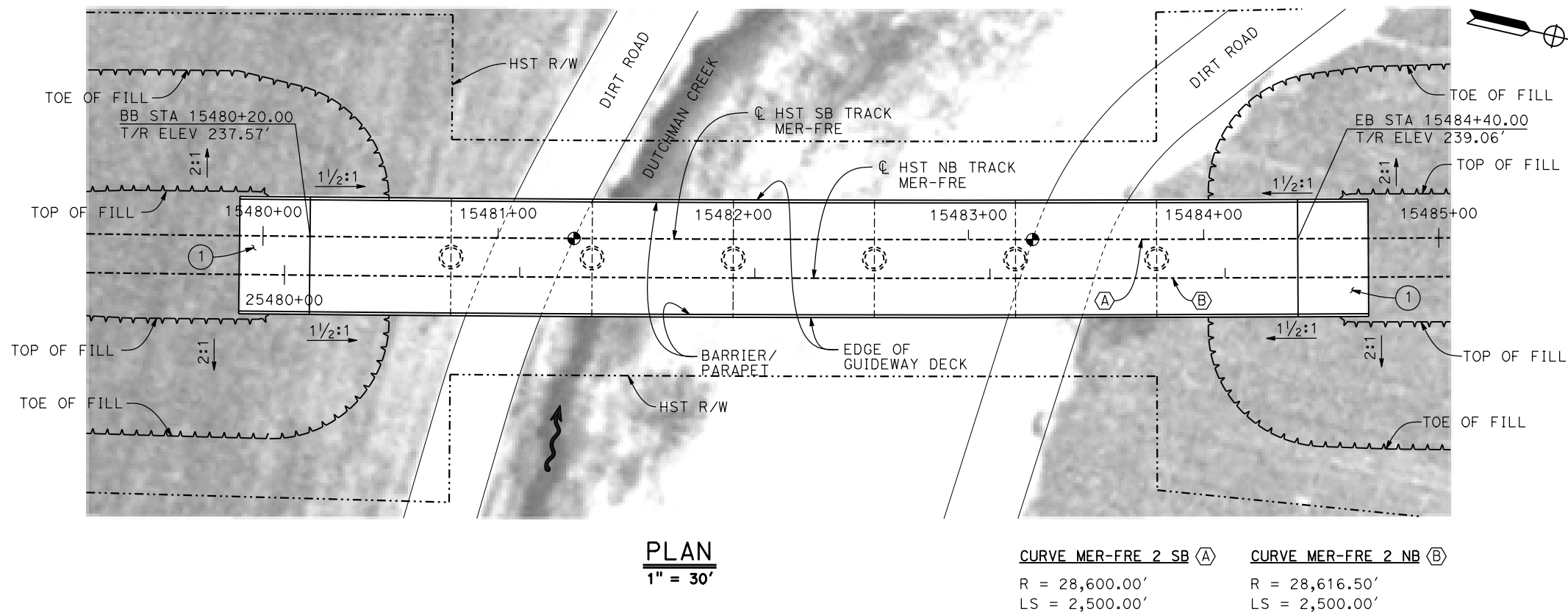
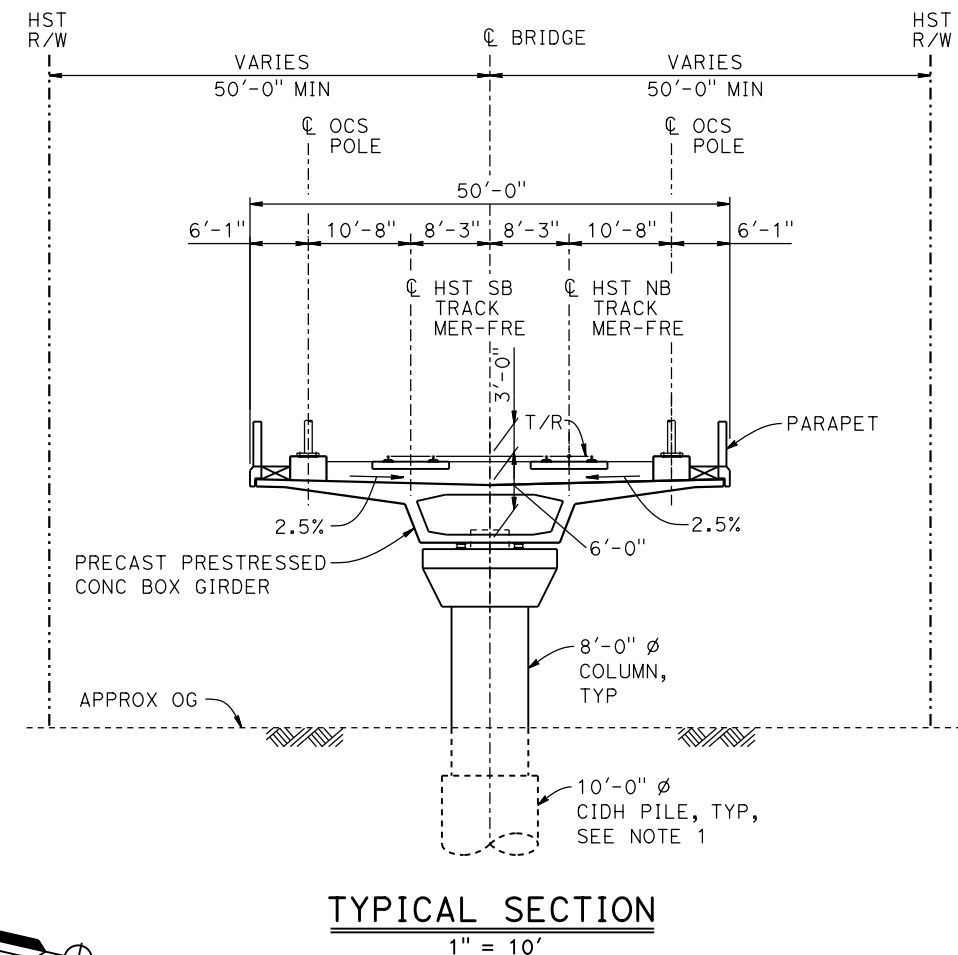
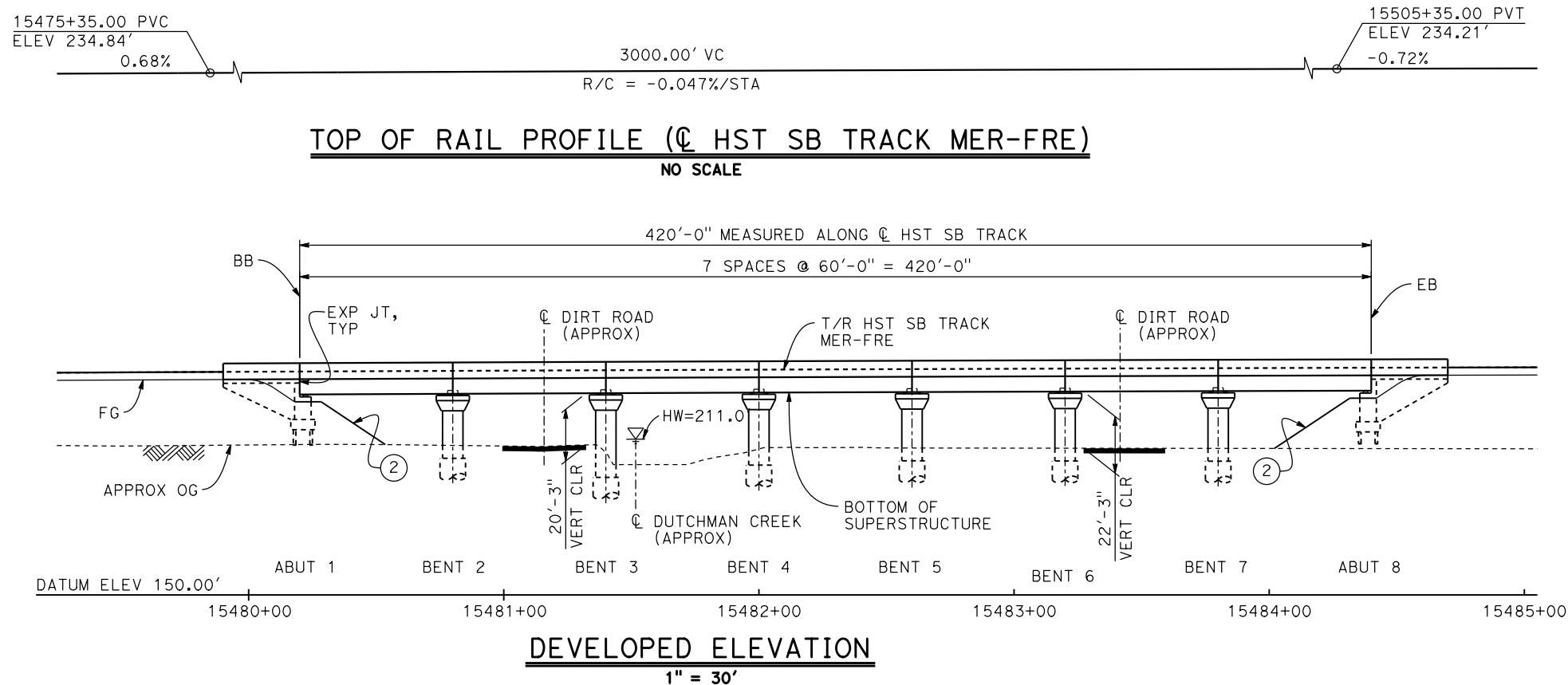
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AVENUE 26 UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1460-D
SCALE AS SHOWN
SHEET NO.



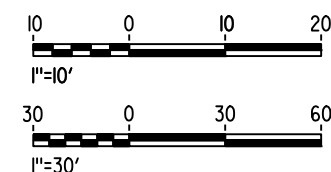
LEGEND:

INDICATES DIRECTION OF FLOW

- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1490-D.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0054-D AND TT-B0055-D.



MF-ST-K1490-D.dgn

16-AUG-2016 7:06

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

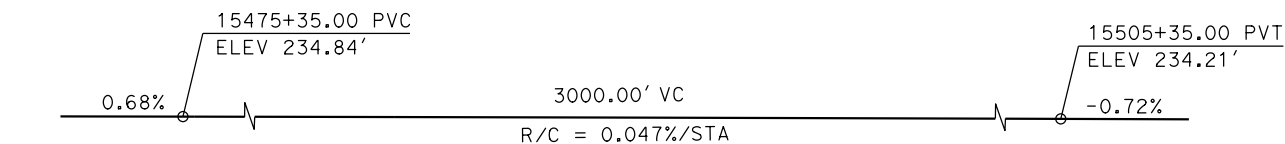
NOT FOR
CONSTRUCTION



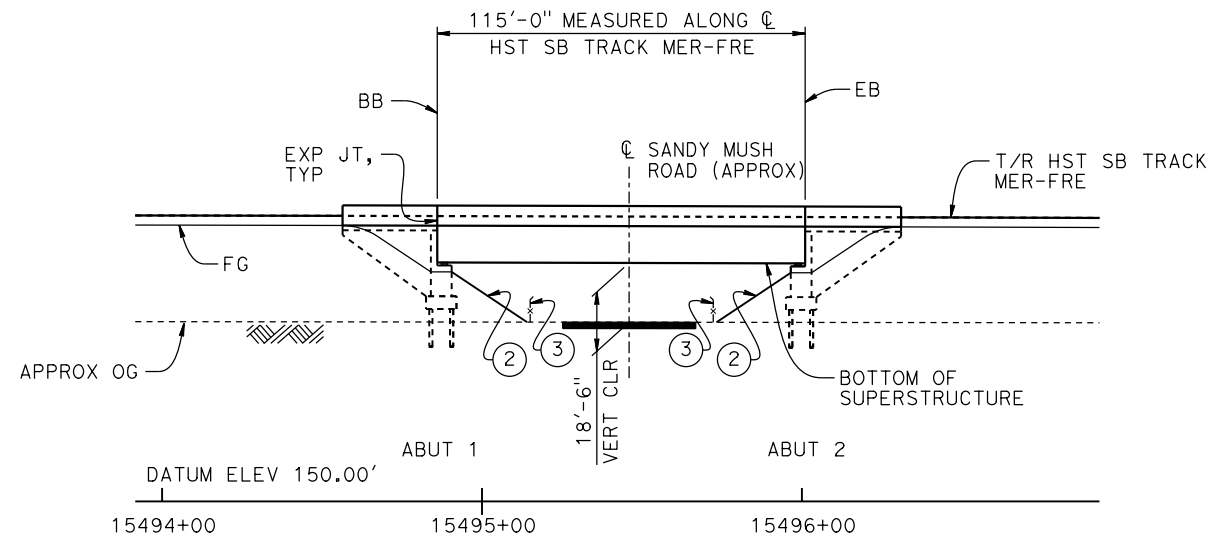
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
DUTCHMAN CREEK BRIDGE

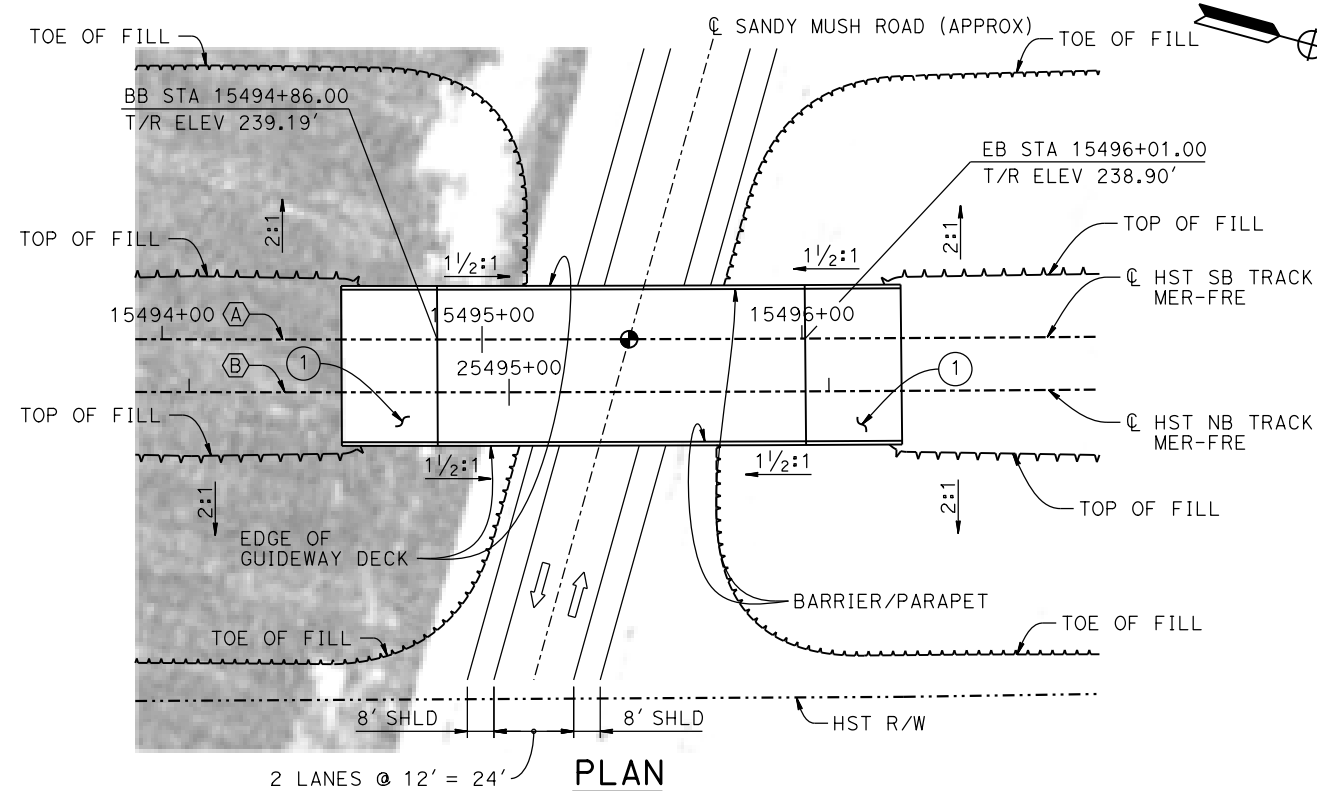
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1490-D
SCALE AS SHOWN
SHEET NO.



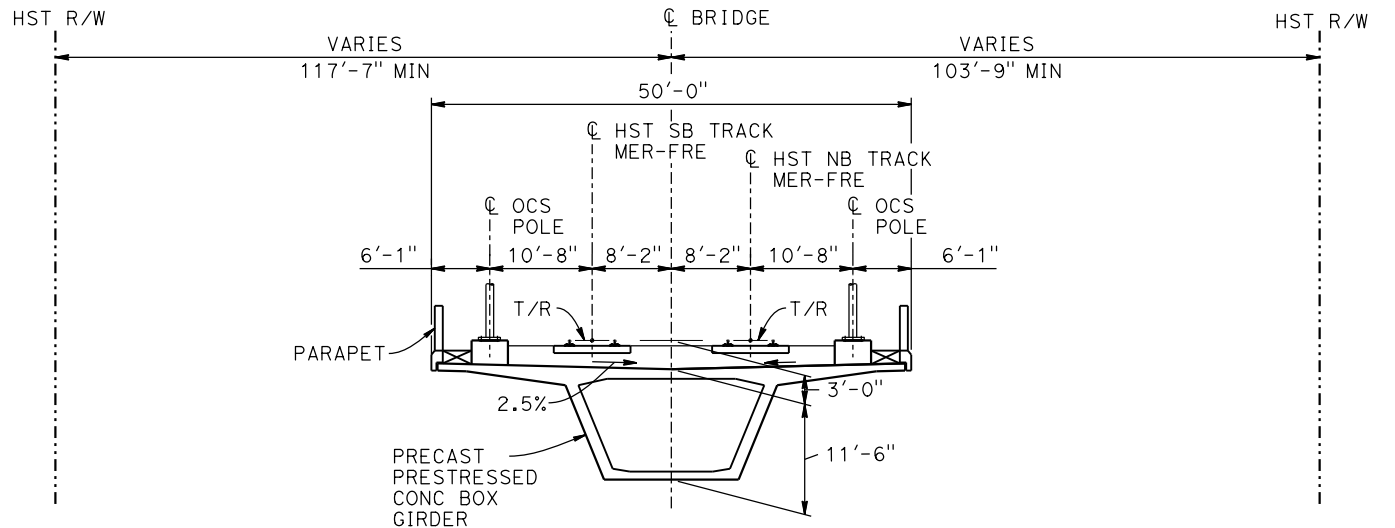
TOP OF RAIL PROFILE (CL HST SB TRACK MER-FRE)
NO SCALE



DEVELOPED ELEVATION
1" = 30'



2 LANES @ 12' = 24'
PLAN
1" = 30'



TYPICAL SECTION
1" = 10'

CURVE MER-FRE 2 SB (A)

R = 28,600.00'
LS = 2,500.00'

CURVE MER-FRE 2 NB (B)

R = 28,616.50'
LS = 2,500.00'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF TRAFFIC
- STRUCTURE APPROACH
- SLOPE PAVING (1 1/2 H:1 V)
- AR FENCE, SEE TRACK PLANS; DRAWING TT-B0020-D

NOTES:

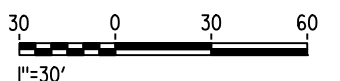
- 16"Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1490-D.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0054-D AND TT-B0055-D.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

STREET OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ x VERT)	
SANDY MUSH ROAD	15495+46	32'x15'	2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



MF-ST-K1495-D.dgn

16-AUG-2016 17:06

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



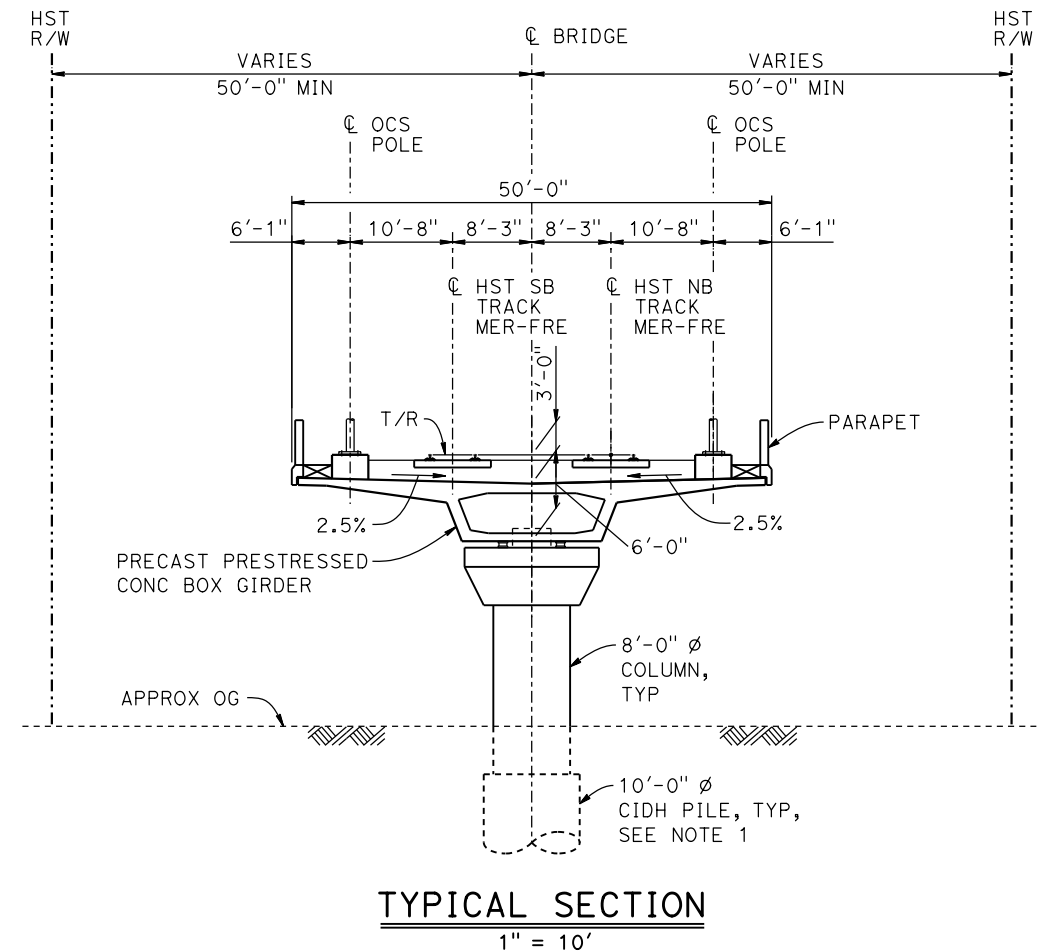
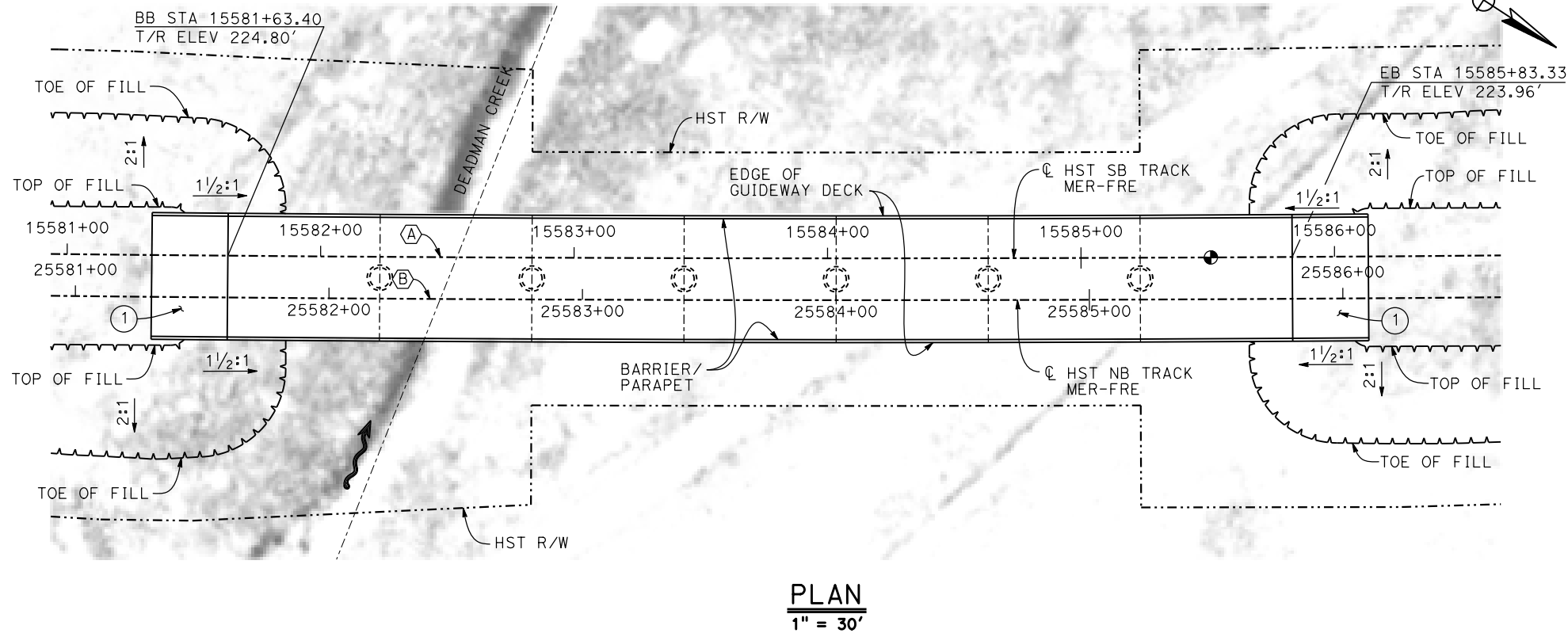
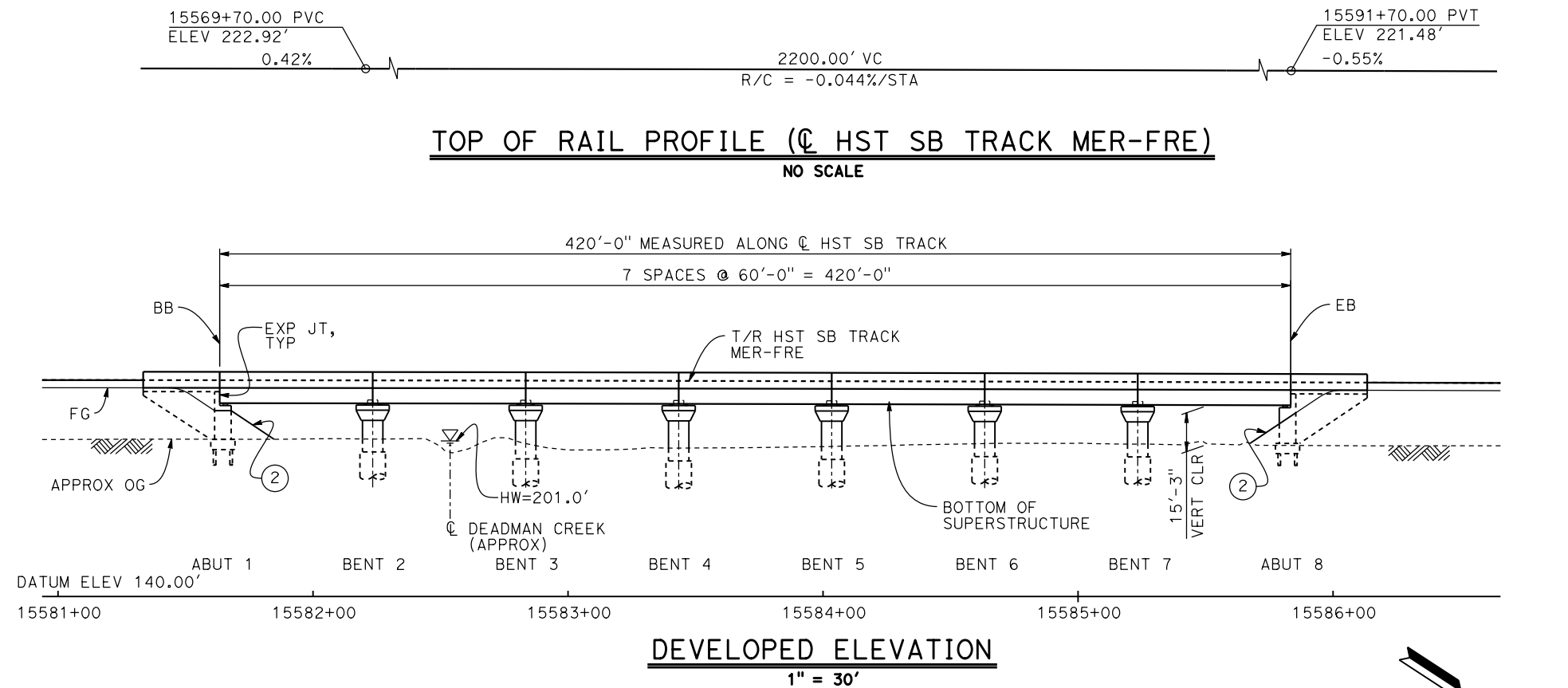
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
SANDY MUSH ROAD UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1495-D
SCALE AS SHOWN
SHEET NO.

16-AUG-2016 7:06 MF-ST-K1515-D.dgn

0005133g



LEGEND:

- INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

NOTES:

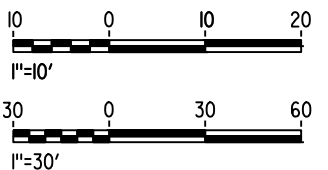
1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1515-D.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0054-D AND TT-B0055-D.

CURVE MER-FRE 2 SB (A)

R = 28,600.00'
LS = 2,500.00'

CURVE MER-FRE 2 NB (B)

R = 28,616.50'
LS = 2,500.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

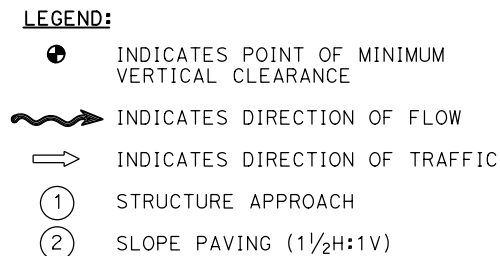
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



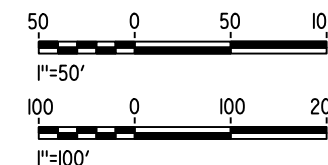
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
DEADMAN CREEK BRIDGE No. 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1515-D
SCALE AS SHOWN
SHEET NO.



ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQ (HORIZ X VER
HEMLOCK RD 46211+10	32'X16.5' -
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.	

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWINGS ST-K3610-D AND ST-K3611-D.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1610-D AND CV-S1630-D.
5. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1610-D AND CV-S1630-D.
6. FOR HEMLOCK RD (ROAD 9) INTERCHANGE GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1160-D.
7. FOR HEMLOCK RD (ROAD 9) OVERHEAD GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1620-D.



PLAN
1" = 100'

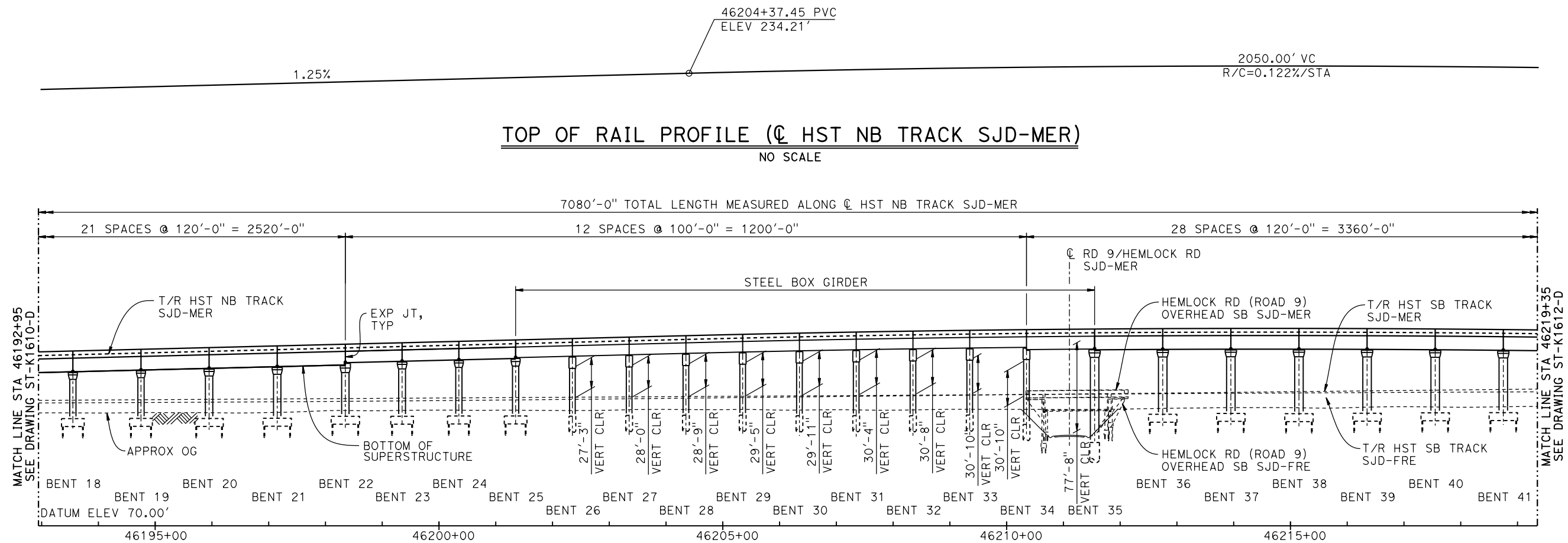
						DESIGNED BY M. BRATT
						DRAWN BY A. M.
						CHECKED BY K. CHARAN
						IN CHARGE C. LEMLEY
						DATE 08/12/2016
REV	DATE	BY	CHK	APP		DESCRIPTION



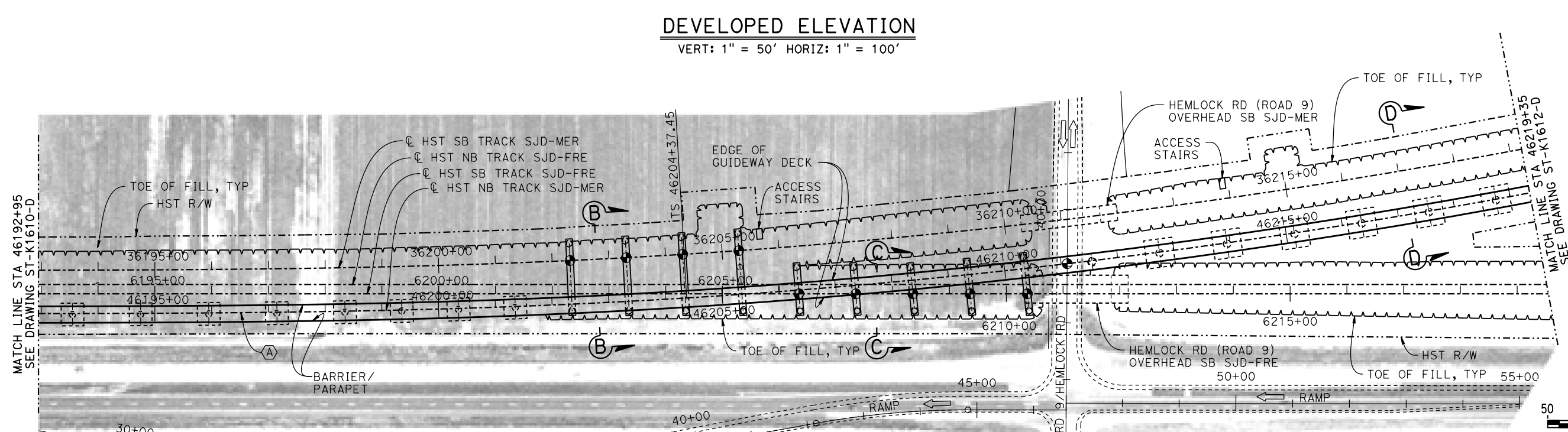
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 1 OF 5

CONTRACT NO.	HSR08-05
DRAWING NO.	ST-K1610-D
SCALE	AS SHOWN
SHEET NO.	

p005133g 15-AUG-2016 8:42 MF-ST-K1611-D.dgn



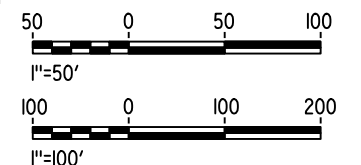
DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'



PLAN
1" = 100'

NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE DRAWING ST-K1610-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

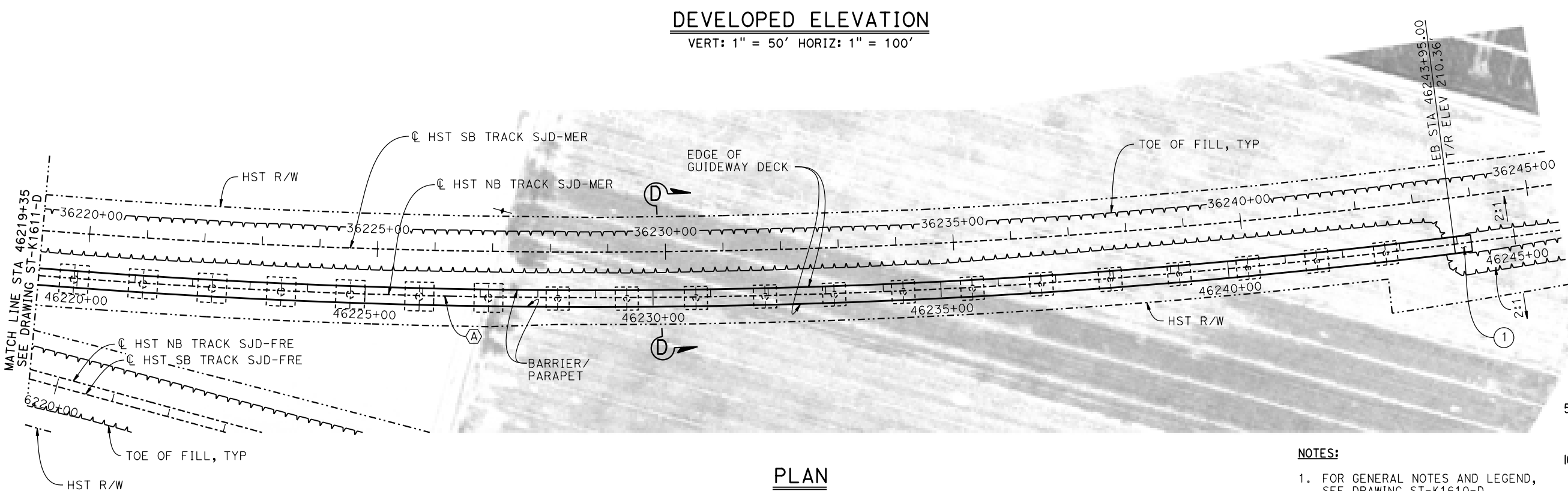
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



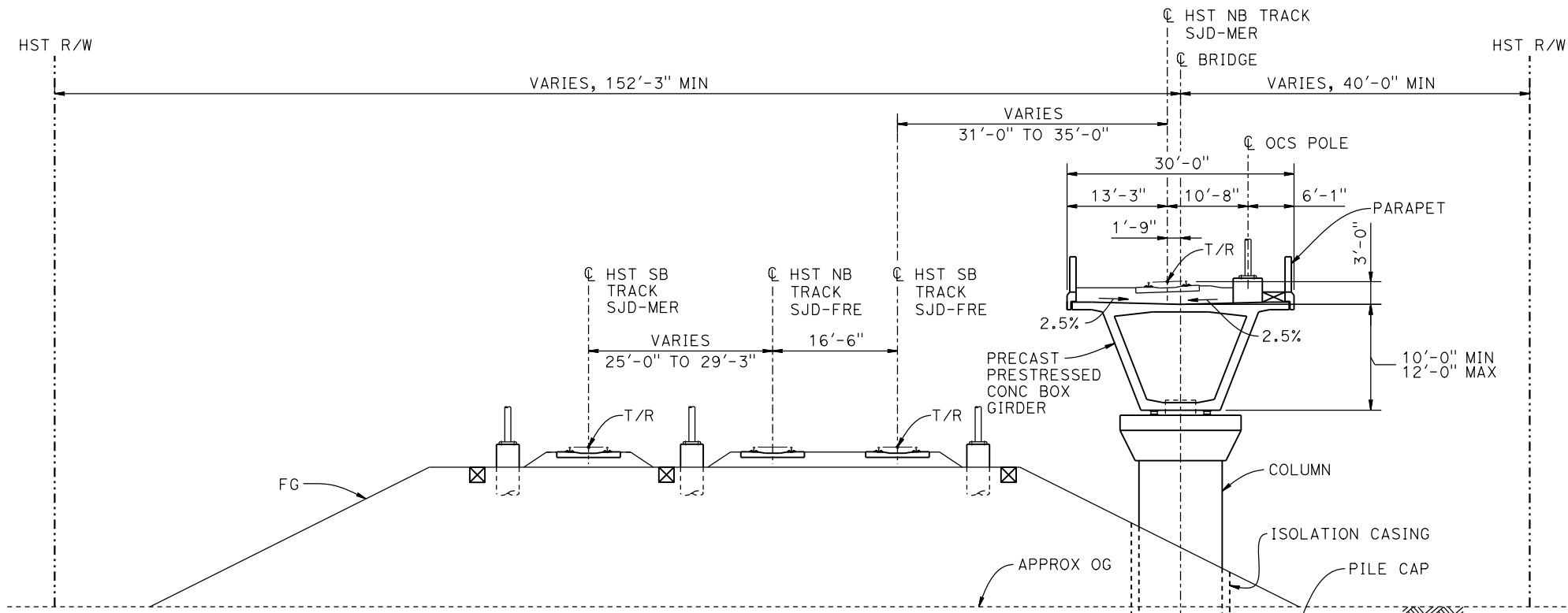
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 2 OF 5

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1611-D
SCALE AS SHOWN
SHEET NO.



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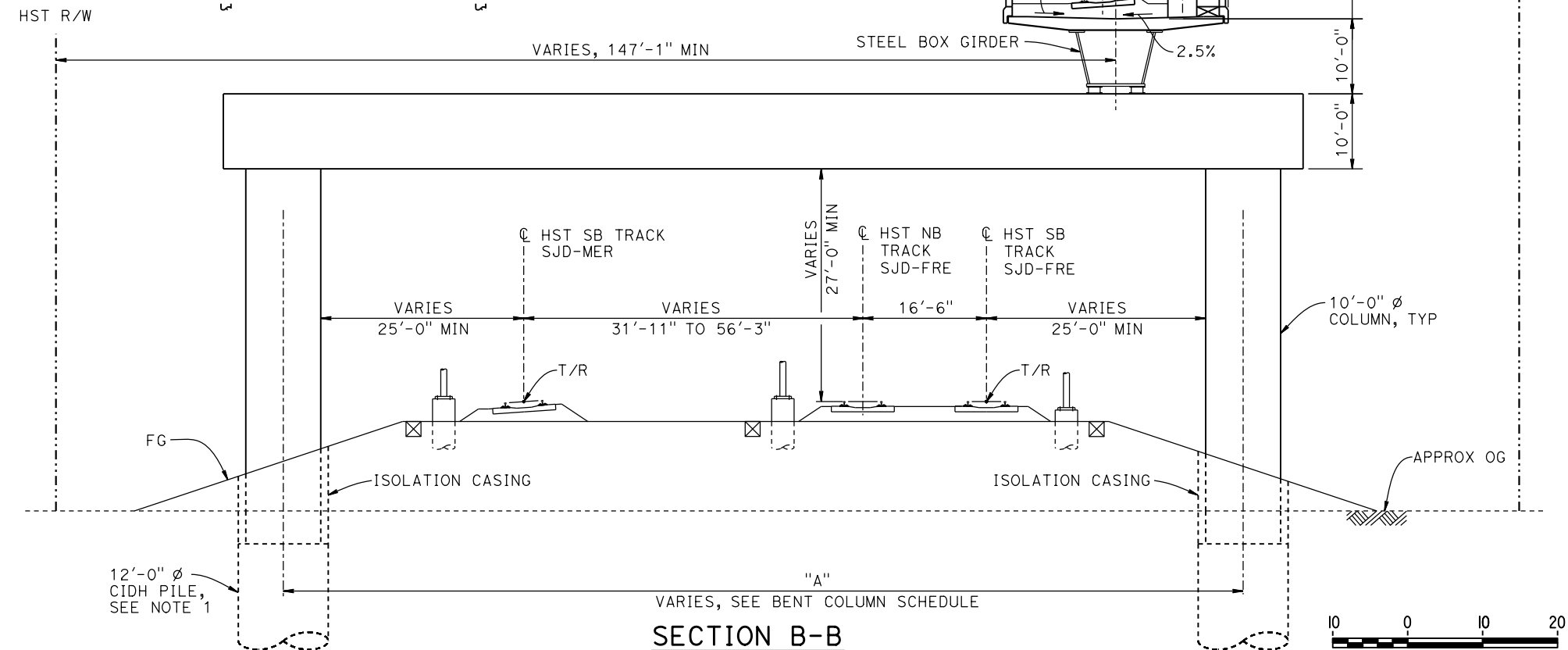
p005133g 15-AUG-2016 8:50 MF-ST-K3610-D.dgn



SECTION A-A
1" = 10'

16" Ø PIPE PILE
TYP, SEE NOTE 1

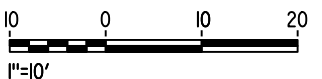
BENT COLUMN SCHEDULE				
BENT	COLUMN TYPE	CIDH TYPE	"A"	TYP SECTION, SHEET
2 - 5	8'-0" Ø			A-A, ST-K3610-D
6 - 12	9'-0" Ø			A-A, ST-K3610-D
13 - 19	11'-0" Ø			A-A, ST-K3610-D
20 - 22	13'-0" Ø			A-A, ST-K3610-D
23 - 25	12'-0" Ø			A-A, ST-K3610-D
26	2 - 10'-0" Ø	12'-0" Ø	119'-0"	B-B, ST-K3610-D
27	2 - 10'-0" Ø	12'-0" Ø	124'-0"	B-B, ST-K3610-D
28	2 - 10'-0" Ø	12'-0" Ø	130'-0"	B-B, ST-K3610-D
29	2 - 10'-0" Ø	12'-0" Ø	137'-0"	B-B, ST-K3610-D
30 - 32	2 - 10'-0" Ø	12'-0" Ø	77'-0"	C-C, ST-K3611-D
33	2 - 10'-0" Ø	12'-0" Ø	85'-0"	C-C, ST-K3611-D
34	2 - 10'-0" Ø	12'-0" Ø	95'-0"	C-C, ST-K3611-D
35	15'-0" Ø	17'-0" Ø		C-C, ST-K3611-D
36 - 42	15'-0" Ø			D-D, ST-K3611-D
43 - 49	13'-0" Ø			D-D, ST-K3611-D
50 - 55	11'-0" Ø			D-D, ST-K3611-D
56 - 61	9'-0" Ø			D-D, ST-K3611-D



SECTION B-B
1" = 10'

NOTES:

1. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

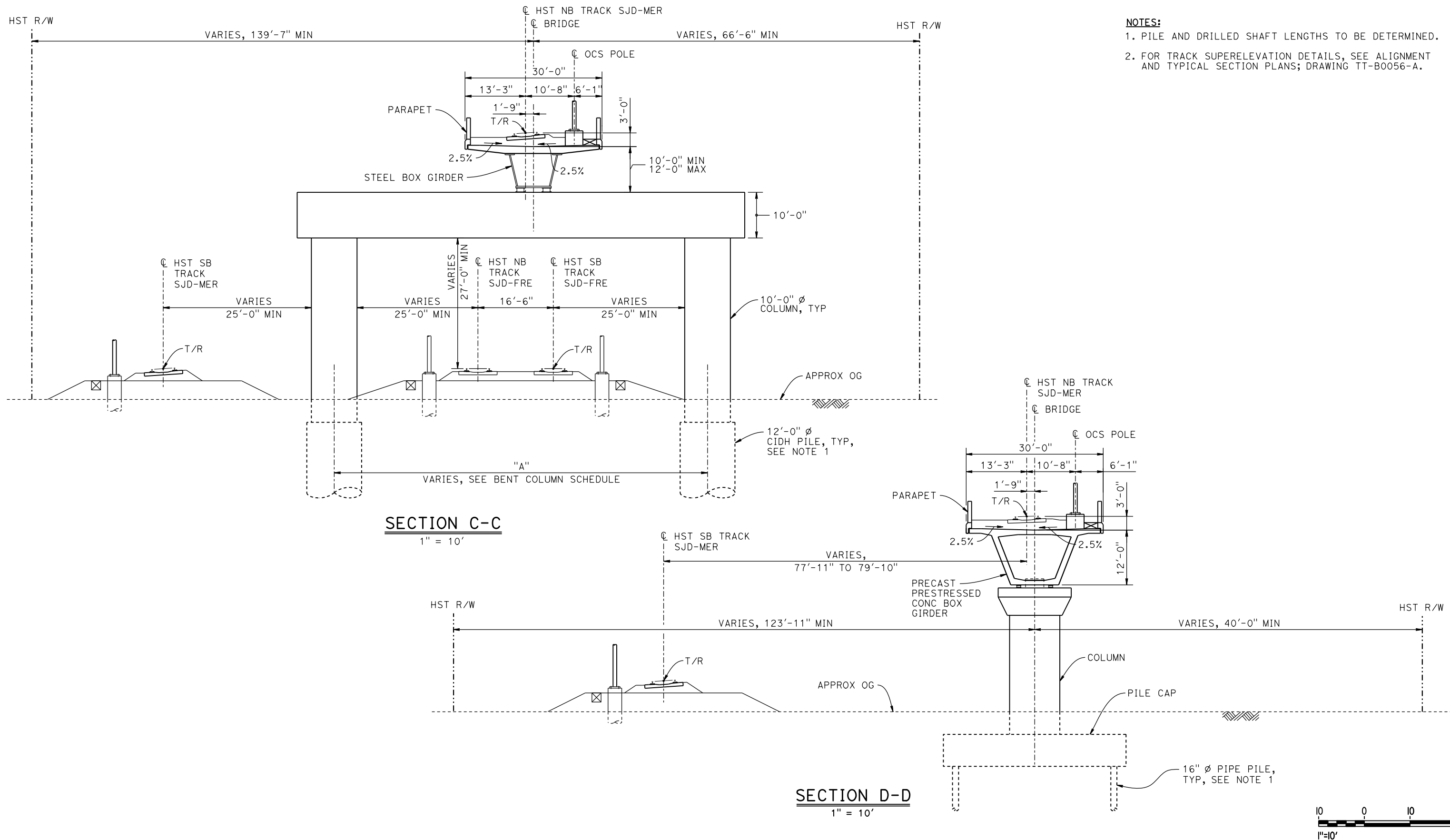
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 4 OF 5

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3610-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:50 MF-ST-K3611-D.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

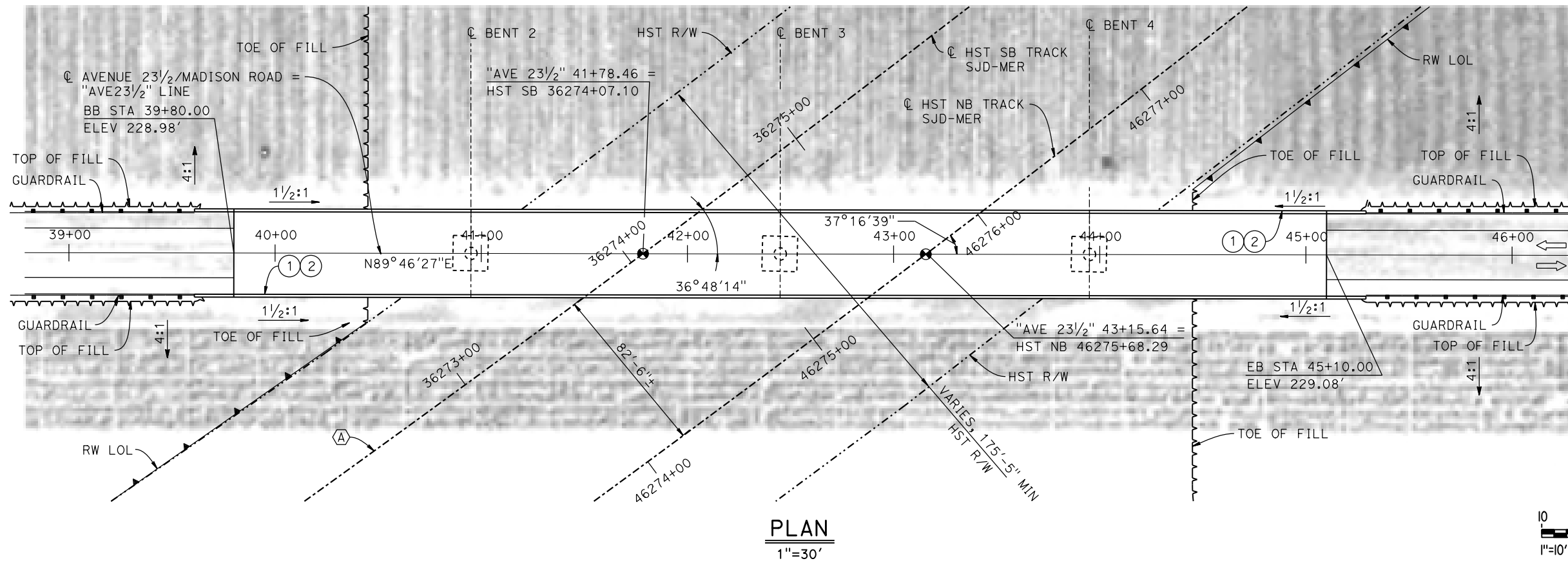
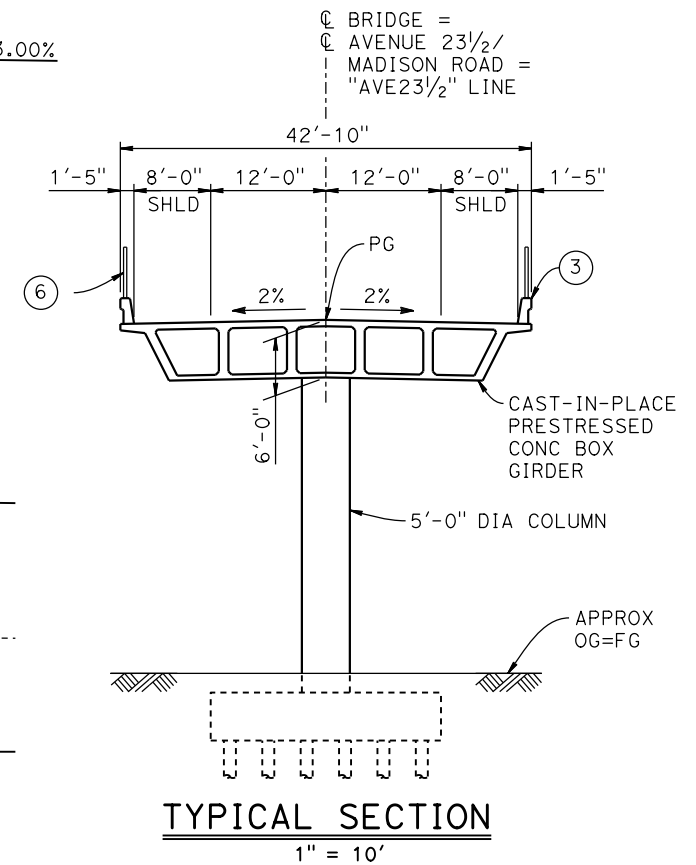
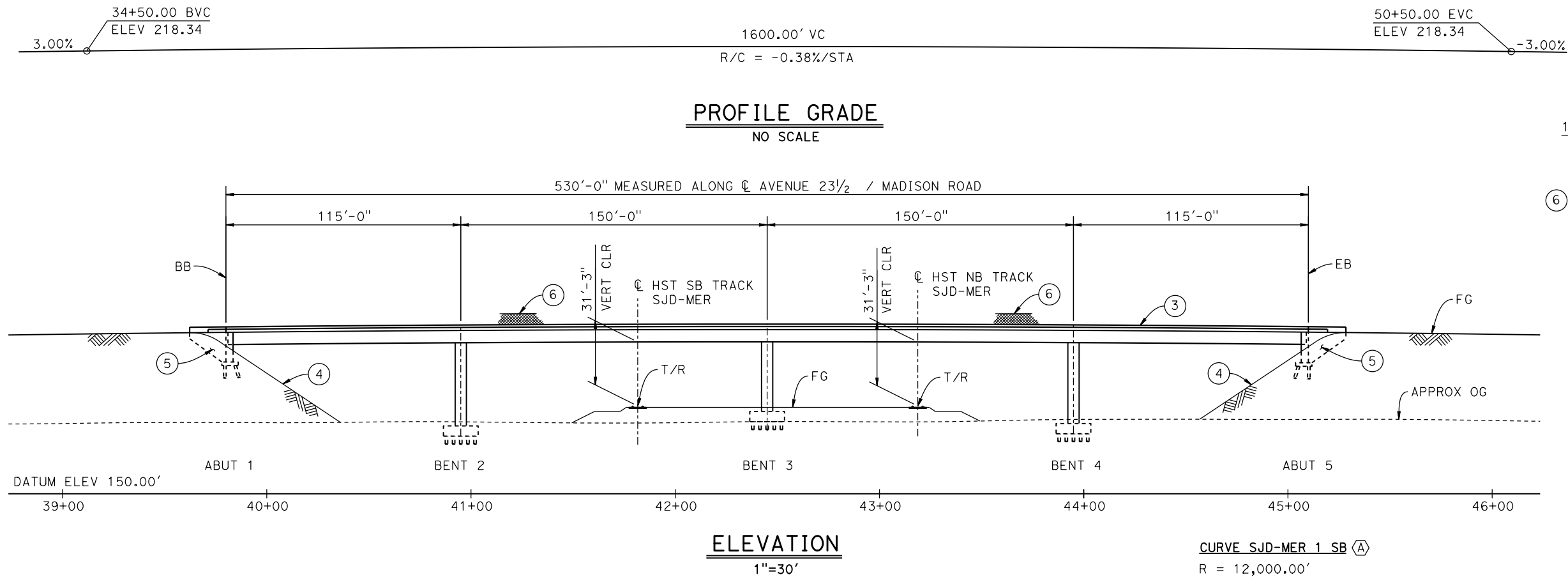
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 5 OF 5

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3611-D
SCALE AS SHOWN
SHEET NO.

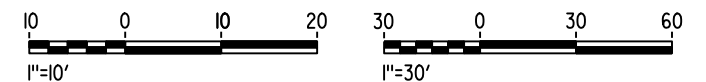


LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "MADISON ROAD OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1 1/2H:1V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

- 16" Ø PIPE PILES ASSUMED AT ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-D.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-D.



15-AUG-2016 8:43 MF-ST-K1630-D.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

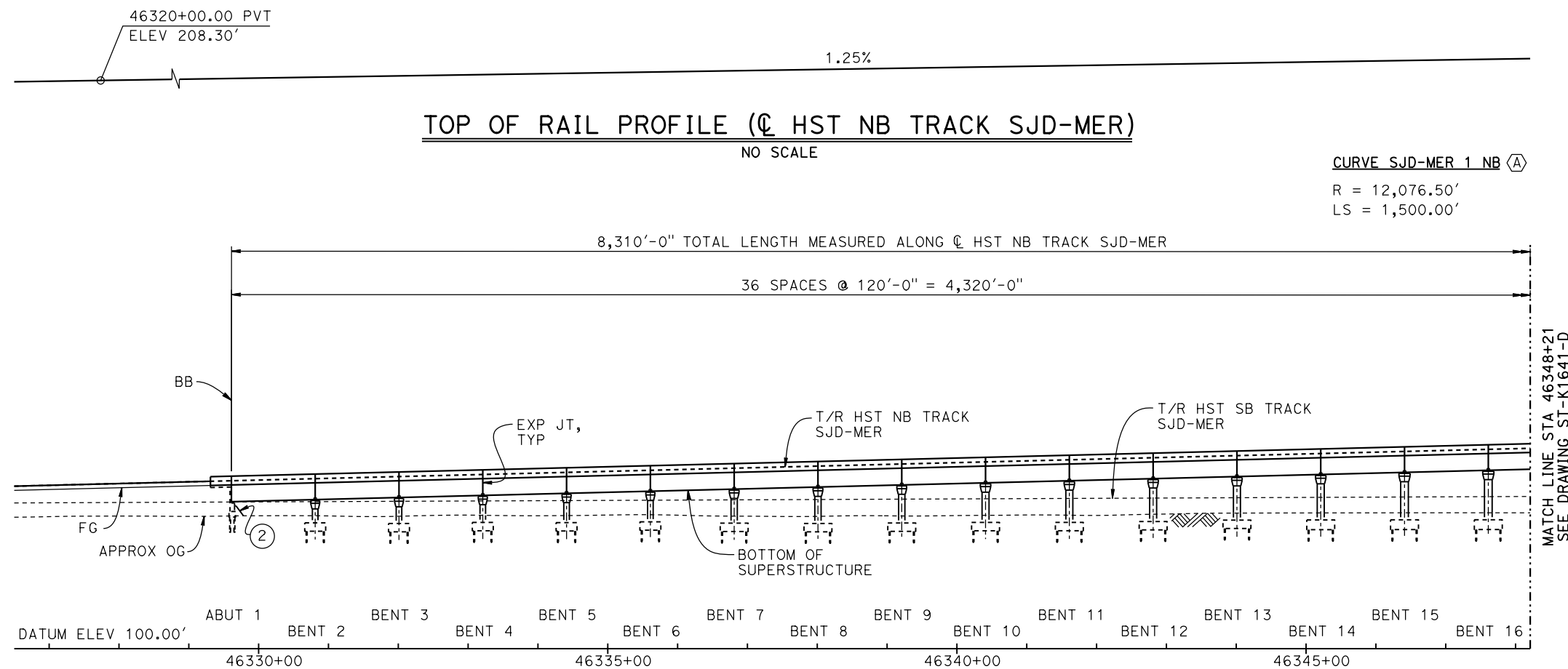
RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION



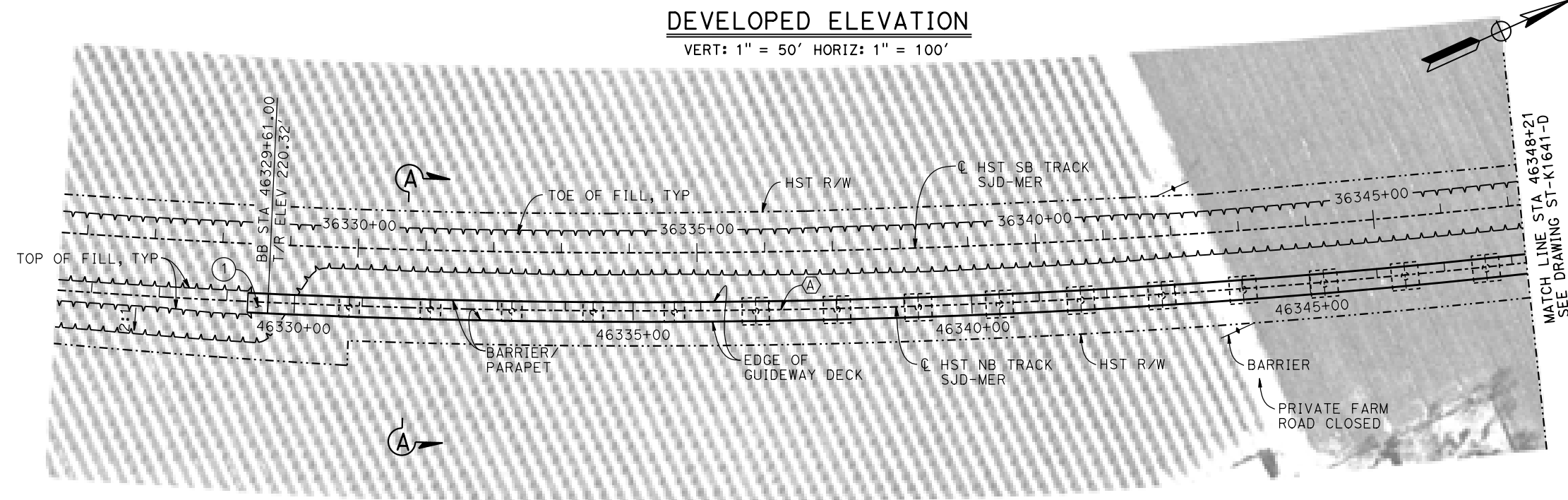
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
MADISON ROAD (AVENUE 23 1/2) OVERHEAD

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1630-D
SCALE AS SHOWN
SHEET NO.

p005133g 15-AUG-2016 8:44 MF-ST-K1640-D.dgn



DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'

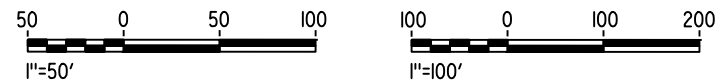


PLAN
1" = 100'

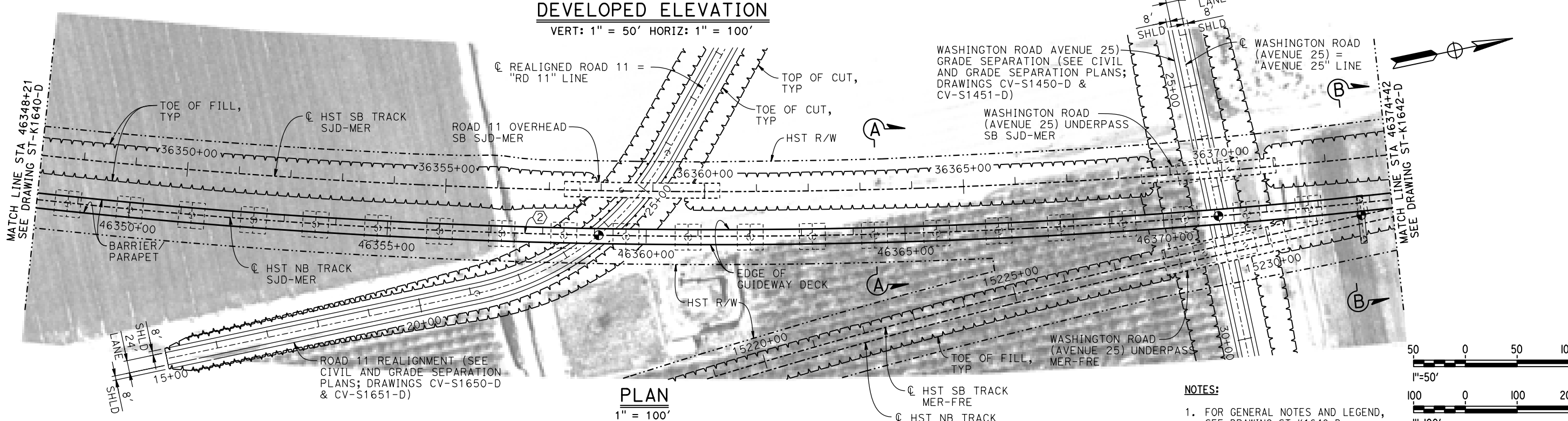
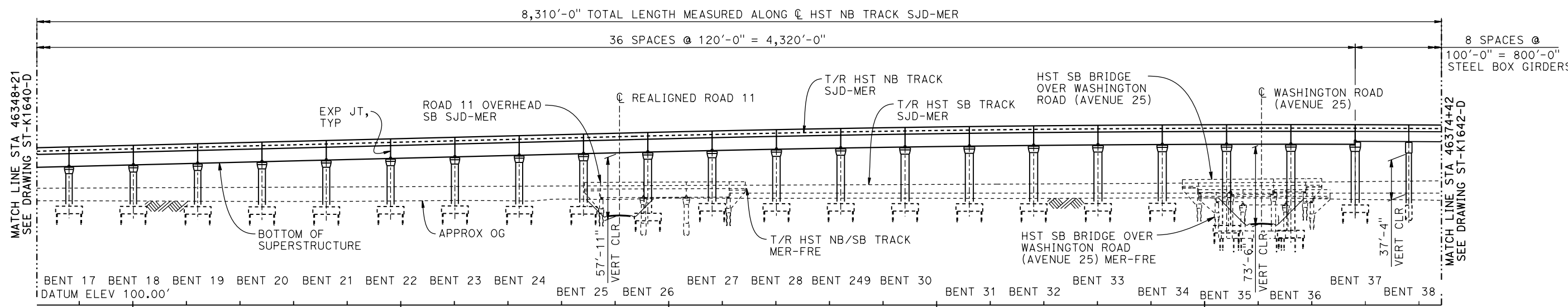
- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ➡ INDICATES DIRECTION OF TRAFFIC
 - ~➡ INDICATES DIRECTION OF FLOW
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1½H:1V)



TEMPORARY TRAFFIC OPENINGS			
VEHICULAR TRAFFIC			
1. <u>X</u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ROAD 11 REALIGNMENT	46359+08	32'X16.5'	2-WAY
AVENUE 25/WASHINGTON RD	46371+05	32'X16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

- NOTES:**
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
 - FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWINGS ST-K3640-D AND ST-K3641-D.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-D TO CV-S1660-D.
 - FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-D TO CV-S1660-D.
 - FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-D TO CV-S1660-D.
 - FOR ROAD 11 OVERHEAD GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1650-D.
 - FOR WASHINGTON ROAD (AVENUE 25) UNDERPASS MER-FRE GENERAL PLAN AND TYPICAL SECTION, SEE DRAWINGS ST-K1450-D AND ST-K3450-D.
 - FOR WASHINGTON ROAD (AVENUE 25) UNDERPASS SJD-MER GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1655-D.
 - FOR CHOWCHILLA RIVER BRIDGE SB MER-FRE GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1455-D.
 - FOR CHOWCHILLA RIVER BRIDGE SB SJD-MER GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1659-D.



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15- 00051330							DESIGNED BY M. BRATT	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	 PARSONS	 CALIFORNIA <i>HIGH-SPEED RAIL AUTHORITY</i>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION CENTRAL VALLEY WYE SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE GENERAL PLAN (SJD-MER) AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 2 OF 6	CONTRACT NO. HSR08-05
							DRAWN BY A. M.					DRAWING NO. ST-K1641-D
							CHECKED BY K. CHARAN					SCALE AS SHOWN
							IN CHARGE C. LEMLEY					SHEET NO.
							DATE 08/12/2016					
	REV	DATE	BY	CHK	APP	DESCRIPTION						

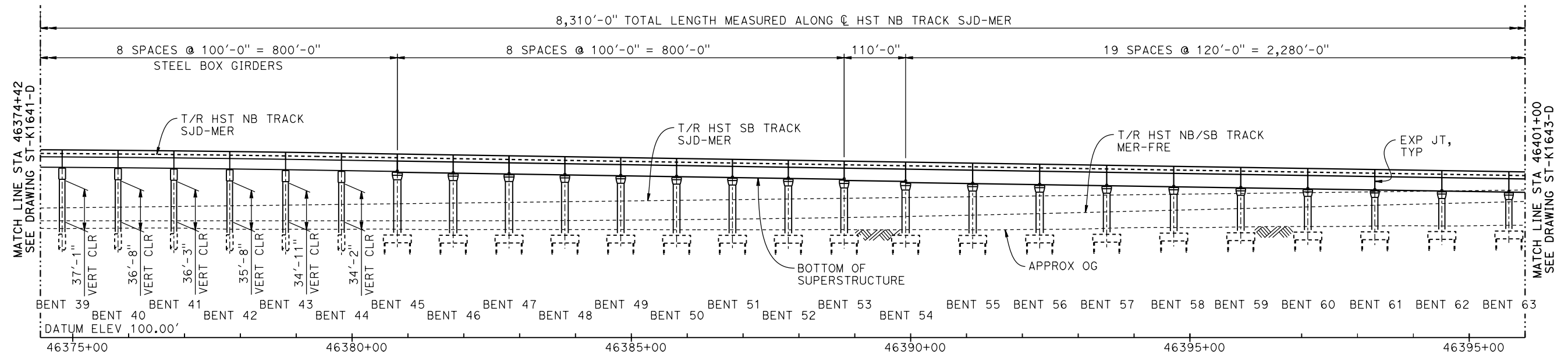
2000.00' VC
R/C = 0.102%/STA

46379+35.67 PVT
ELEV 262.08'

-0.79%

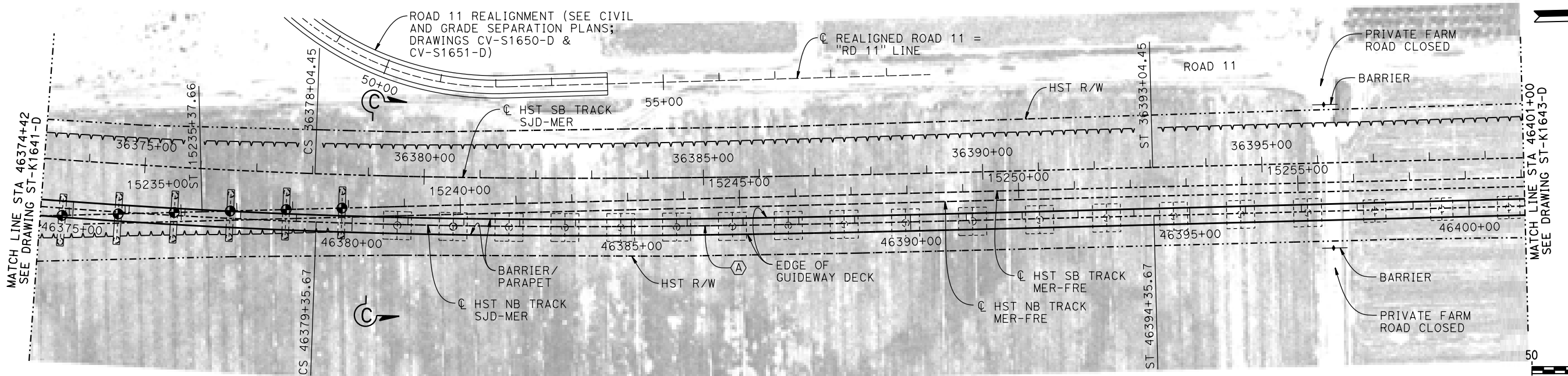
TOP OF RAIL PROFILE (CL HST NB TRACK SJD-MER)

NO SCALE



DEVELOPED ELEVATION

VERT: 1" = 50' HORIZ: 1" = 100'

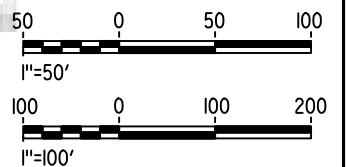


PLAN

1" = 100'

NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE DRAWING ST-K1640-D.



MF-ST-K1642-D.dgn

16-AUG-2016 7:07

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

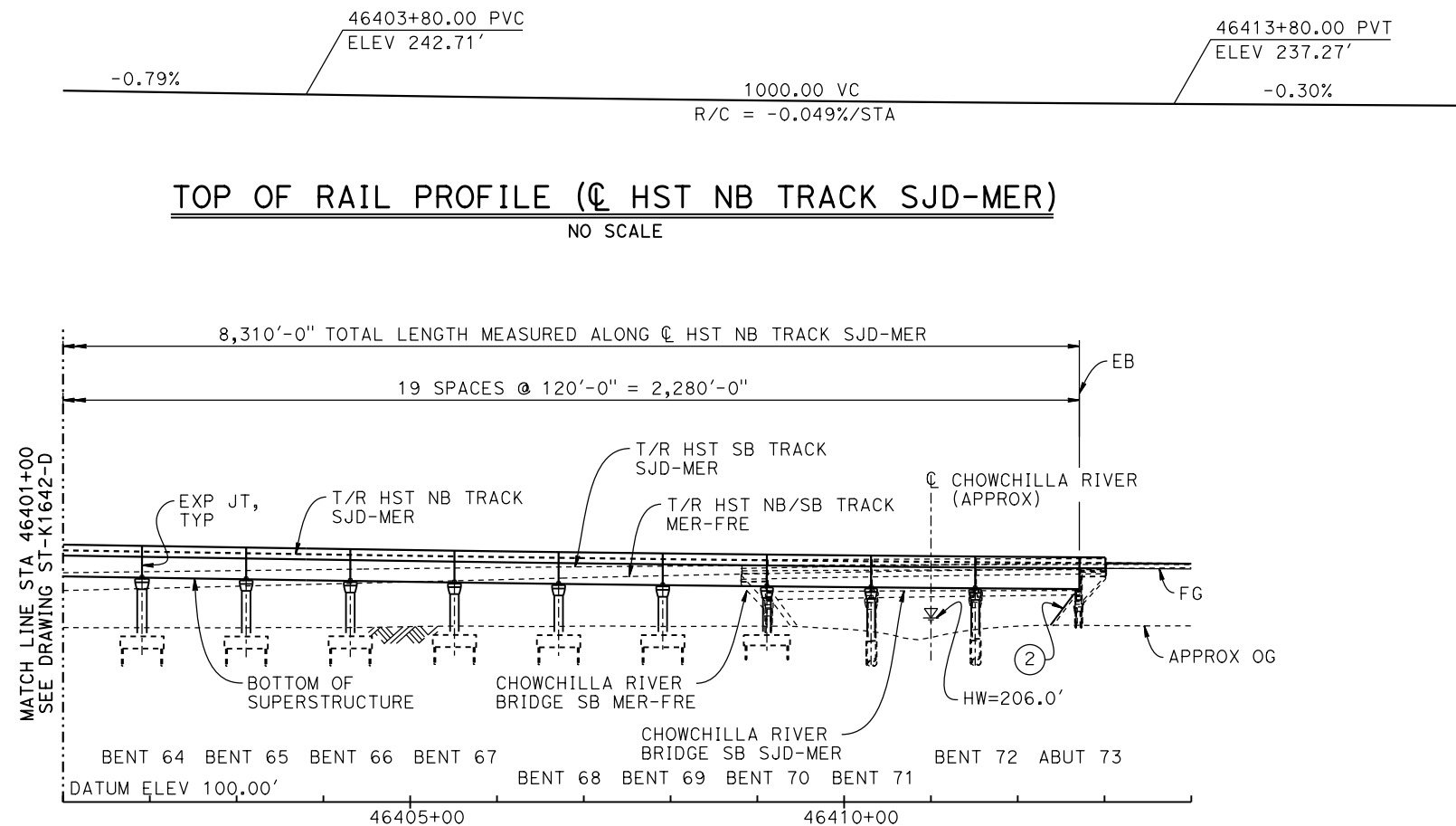


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO SECTION

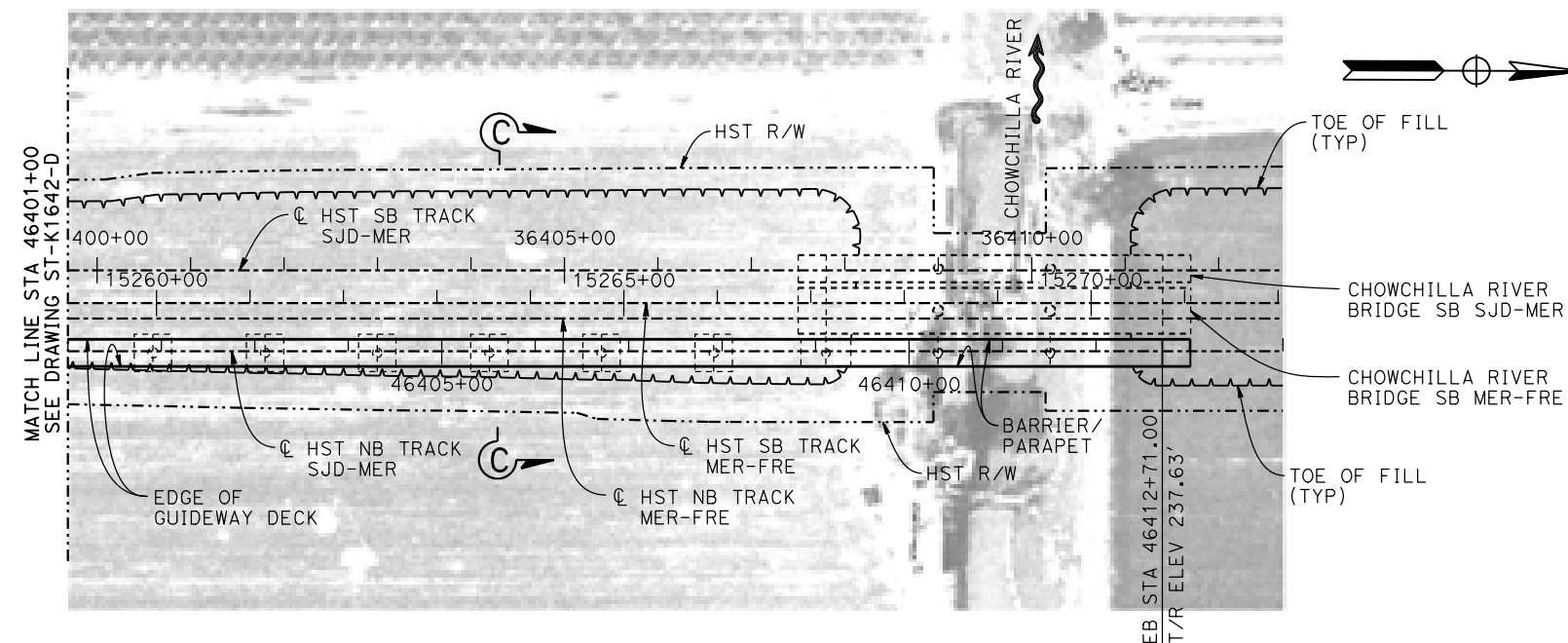
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 3 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1642-D
SCALE AS SHOWN
SHEET NO.

p005133g 16-AUG-2016 7:08 MF-ST-K1643-D.dgn

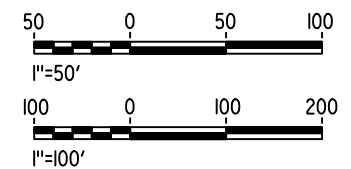


DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'



NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE DRAWING ST-K1640-D.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. BRATT
DRAWN BY A. M.
CHECKED BY K. CHARAN
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

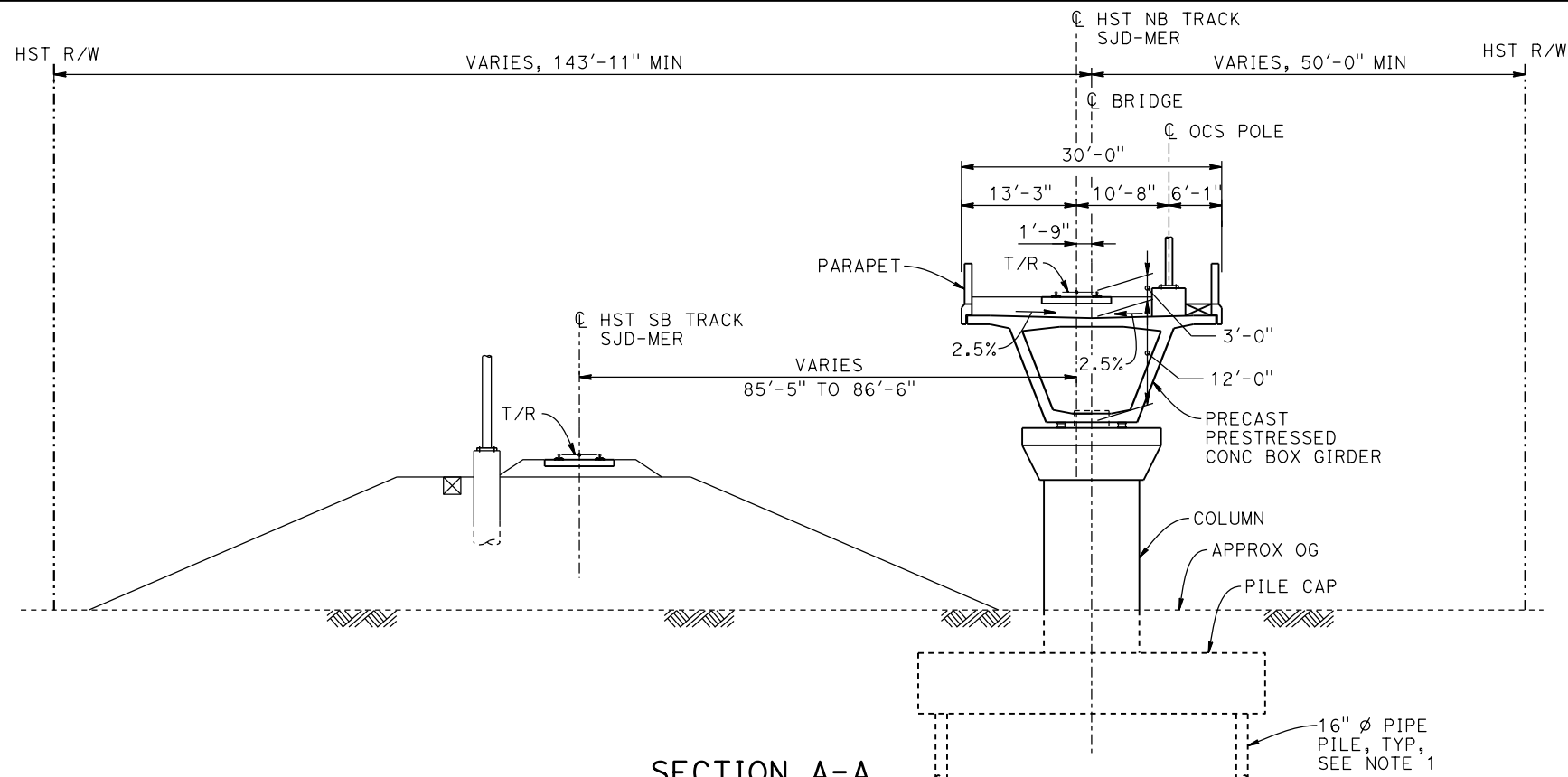
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

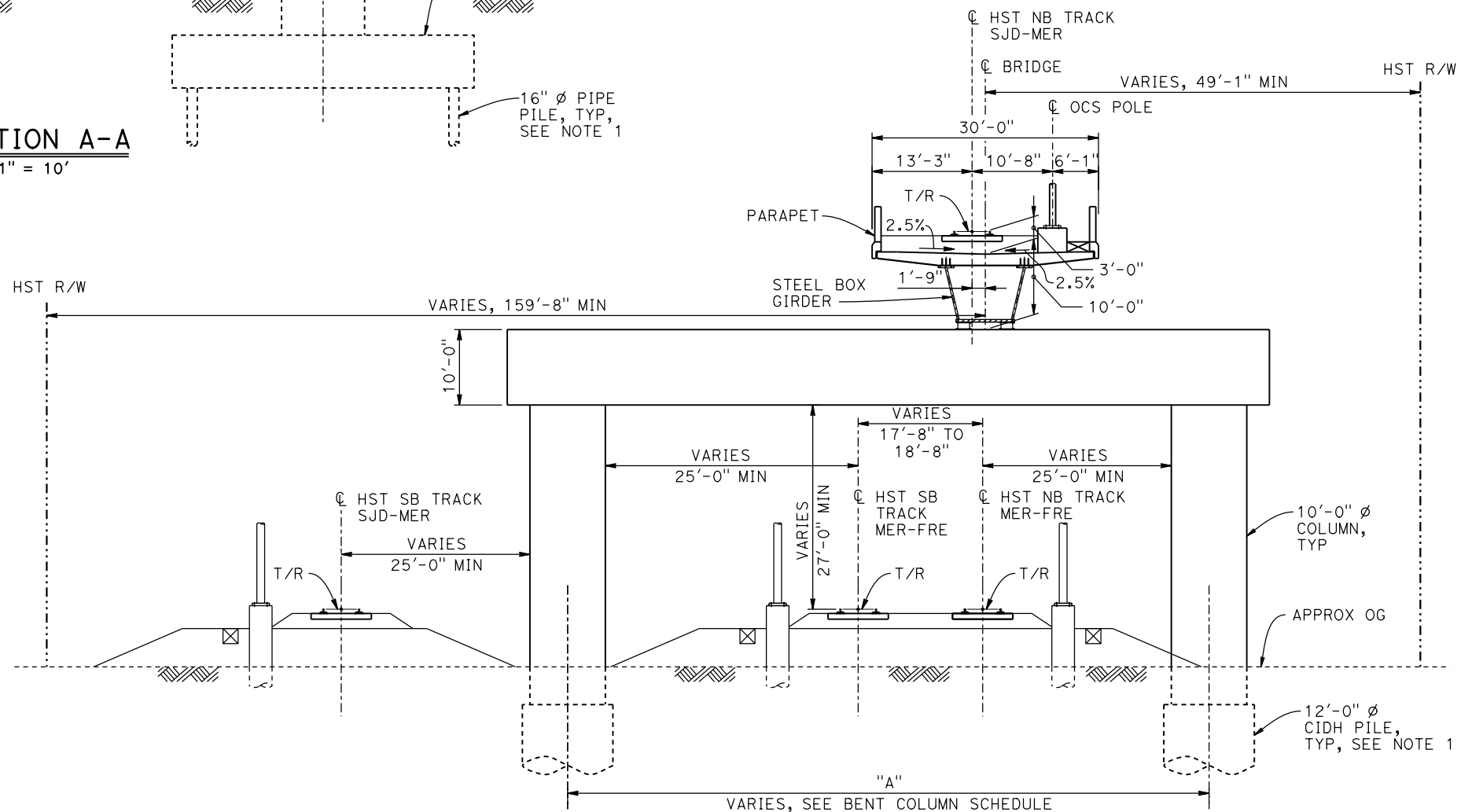
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 4 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1643-D
SCALE AS SHOWN
SHEET NO.



SECTION A-A
1" = 10'

BENT COLUMN SCHEDULE				
BENT	COLUMN TYPE	CIDH TYPE	"A"	TYP SECTION, SHEET
2 - 6	8'-0"Ø			A-A, ST-K3640-D
7 - 14	9'-0"Ø			A-A, ST-K3640-D
15 - 20	11'-0"Ø			A-A, ST-K3640-D
21 - 30	13'-0"Ø			A-A, ST-K3640-D
31 - 37	15'-0"Ø			A-A, ST-K3640-D
38 - 44	2 - 10'-0"Ø	12'-0"Ø	77'-0"	B-B, ST-K3640-D
45 - 46	15'-0"Ø			C-C, ST-K3641-D
47 - 57	13'-0"Ø			C-C, ST-K3641-D
58 - 64	11'-0"Ø			C-C, ST-K3641-D
65 - 70	9'-0"Ø			C-C, ST-K3641-D
71 - 72	9'-0"Ø	11'-0"Ø		C-C, ST-K3641-D



SECTION B-B
1" = 10'

NOTES:

1. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-D.



MF-ST-K3640-D.dgn

15-AUG-2016 8:50

p005133g

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	M. BRATT
DRAWN BY	A. M.
CHECKED BY	K. CHARAN
IN CHARGE	C. LEMLEY
DATE	08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

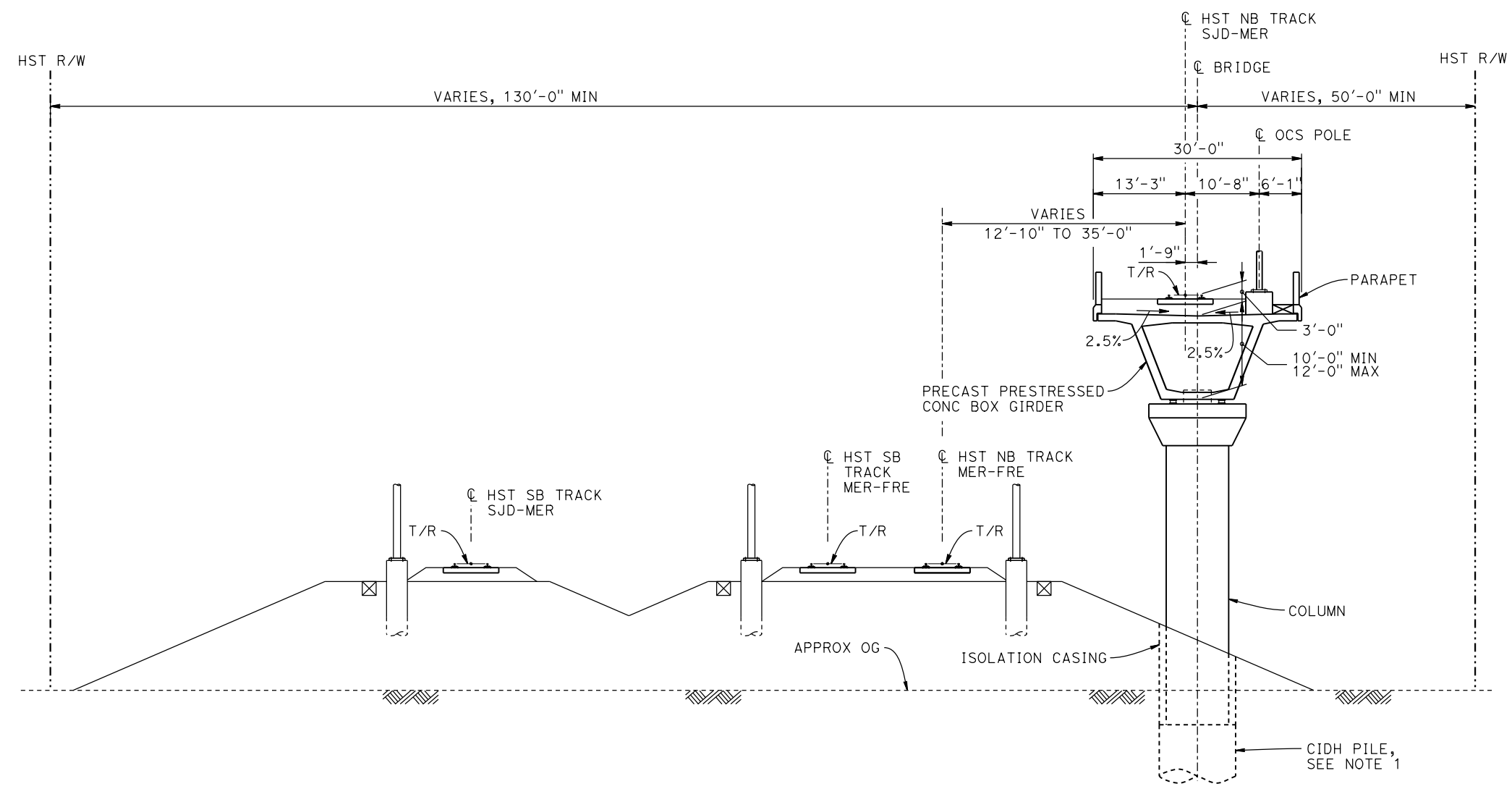
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 5 OF 6

CONTRACT NO.	HSR08-05
DRAWING NO.	ST-K3640-D
SCALE	AS SHOWN
SHEET NO.	

p005133g 15-AUG-2016 8:50 MF-ST-K3641-D.dgn

- NOTES:**
- 1. DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-D.



SECTION C-C
1" = 10'



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IN CHARGE C. LEMLEY
DATE 08/12/2016

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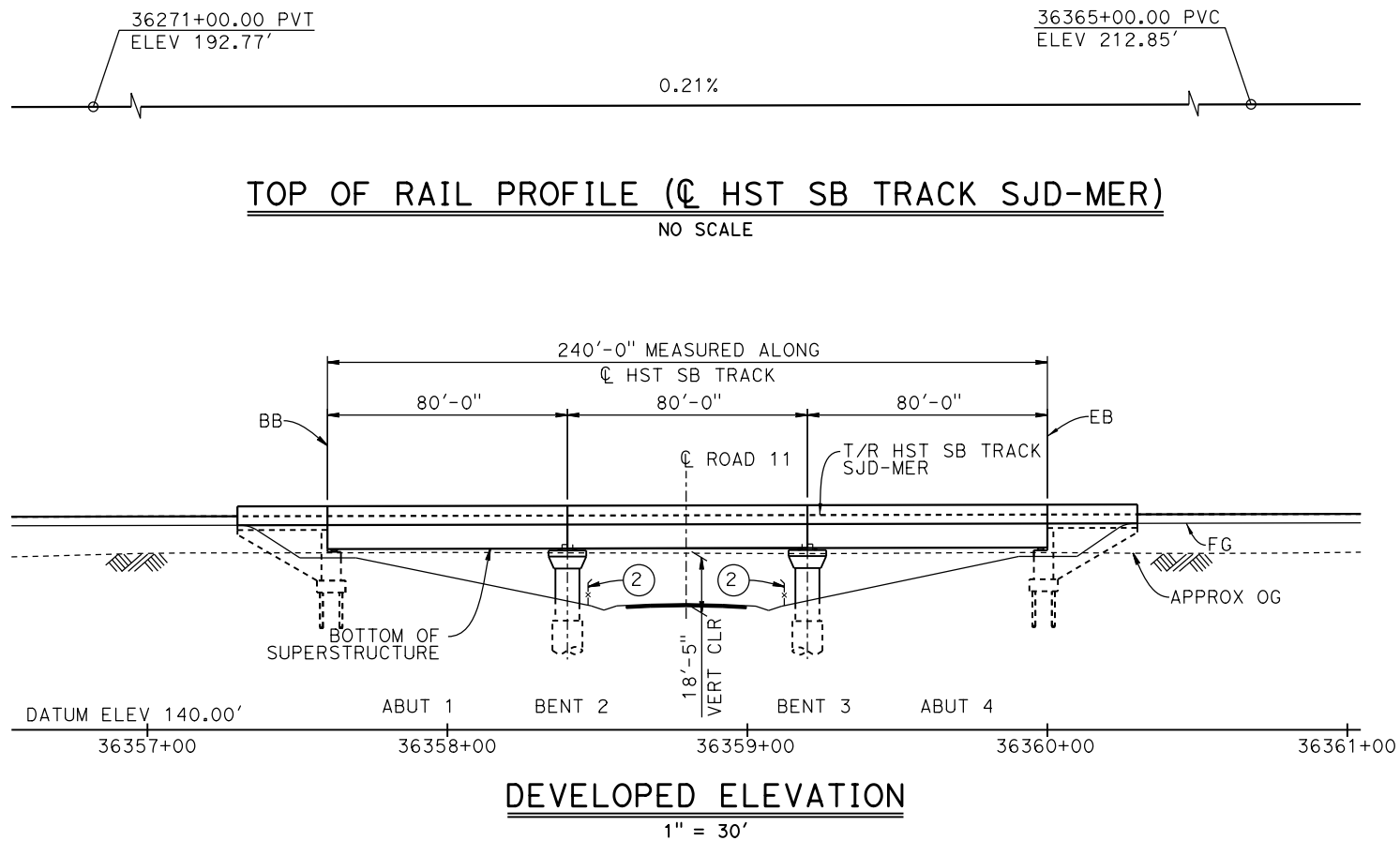


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

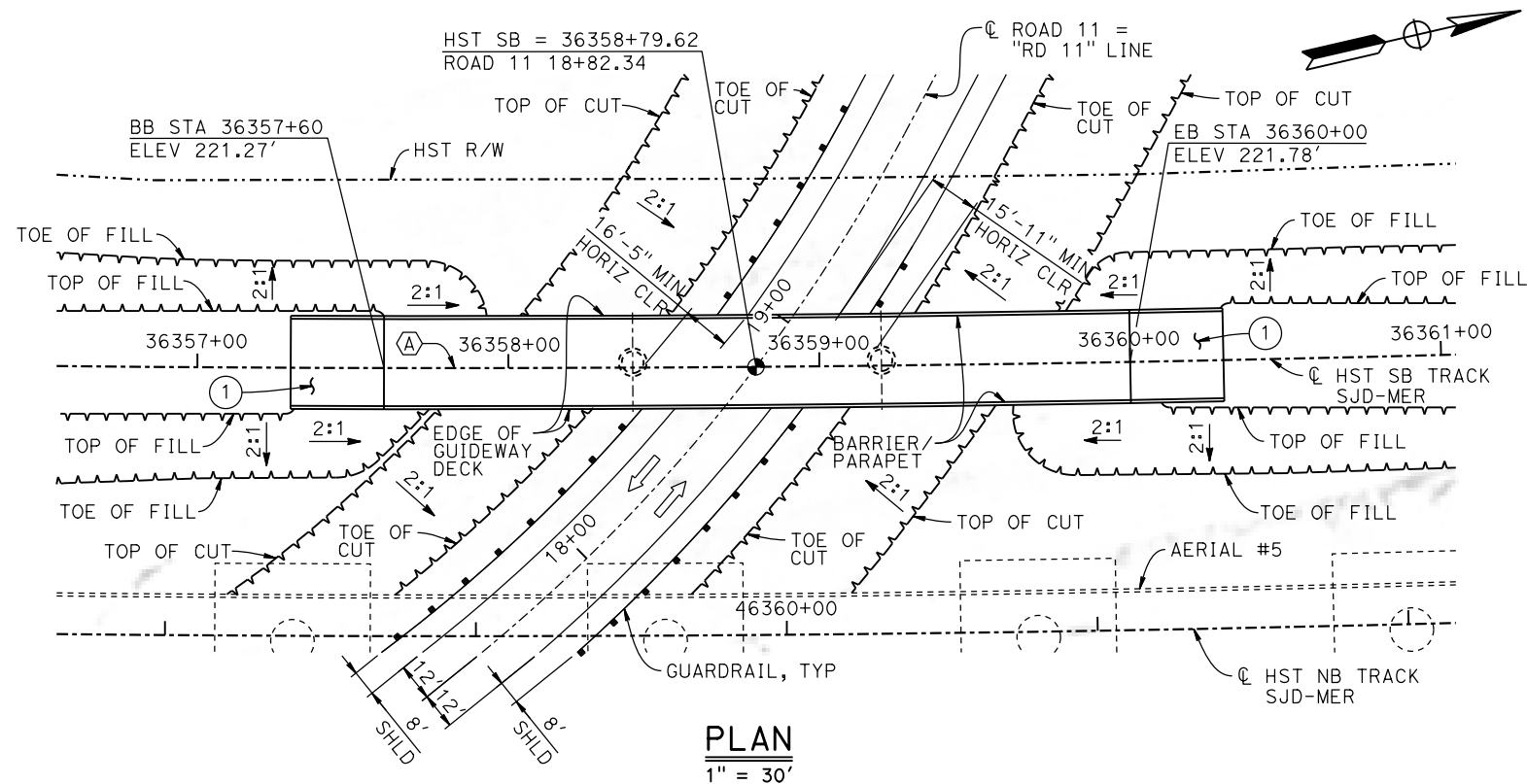
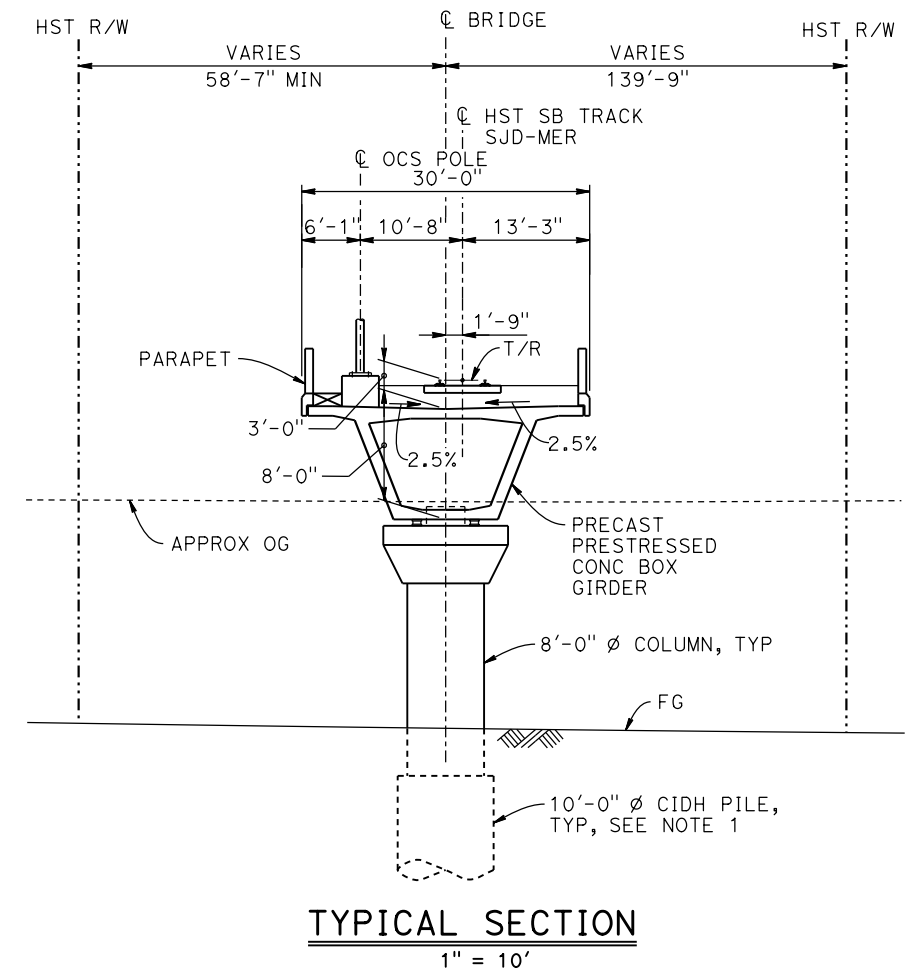
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)

AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 6 OF 6

CONTRACT NO. HSR08-05
DRAWING NO. ST-K3641-D
SCALE AS SHOWN
SHEET NO.



CURVE SJD-MER 1 SB (A)
R = 12,000.00'
LS = 1,500.00'



TEMPORARY TRAFFIC OPENINGS

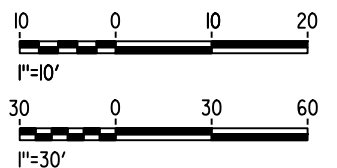
VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
ROAD 11	36358+80	32'X15'	2-WAY
3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➡ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② AR FENCE, SEE TRACK PLANS; DRAWING TT-B0050-D

NOTES:

- 16" Ø PIPE PILE ASSUMED AT ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1650-D.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1650-D.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-D.
- FOR ROAD 11 REALIGNMENT, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1650-D.
- FOR AERIAL # 5 GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1640-D TO ST-K1643-D AND ST-K3640-D TO ST-K3641-D.



MF-ST-K1650-D.dgn

16-AUG-2016 7:29

p005133g

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IN CHARGE C. LEMLEY
DATE 08/12/2016

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SUBMITTAL

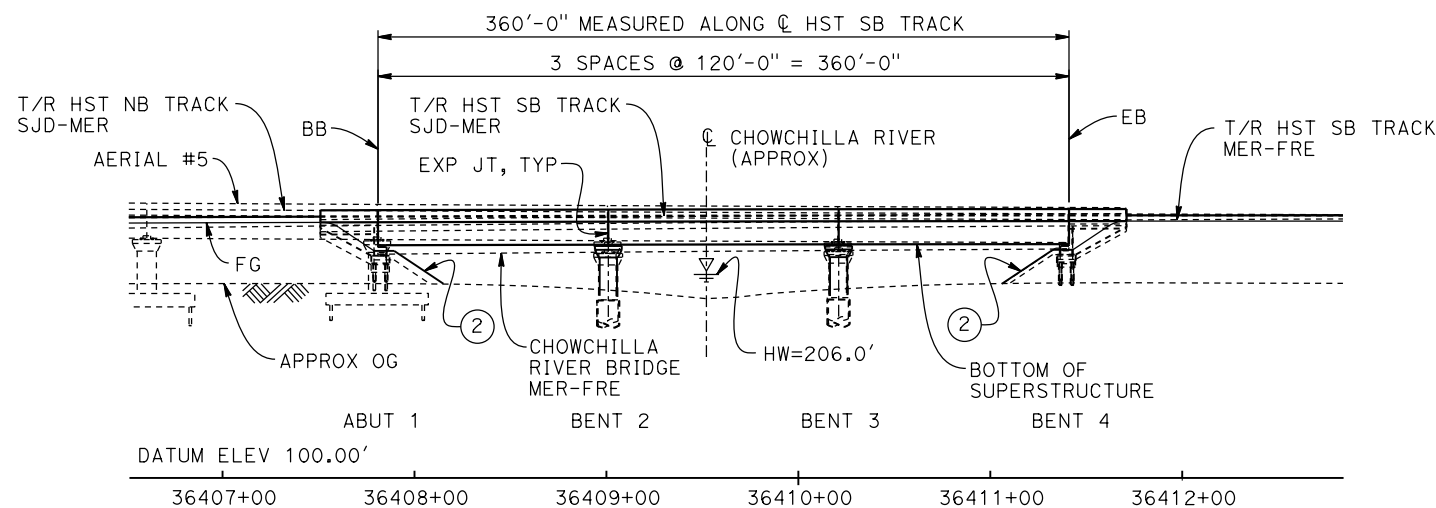
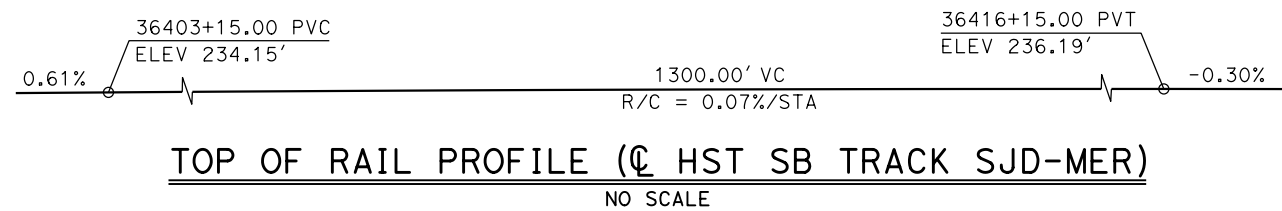
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

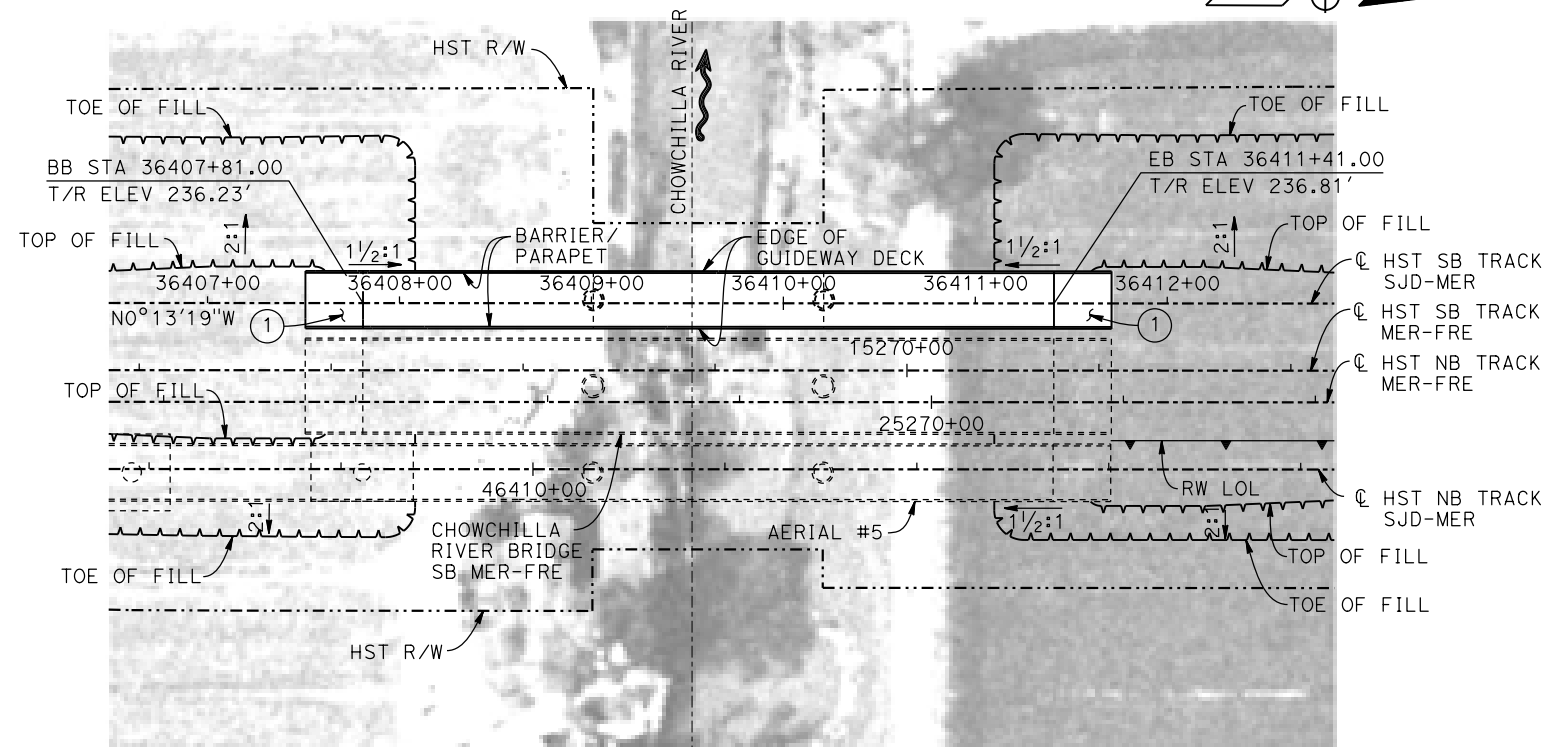
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
ROAD 11 UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1650-D
SCALE AS SHOWN
SHEET NO.



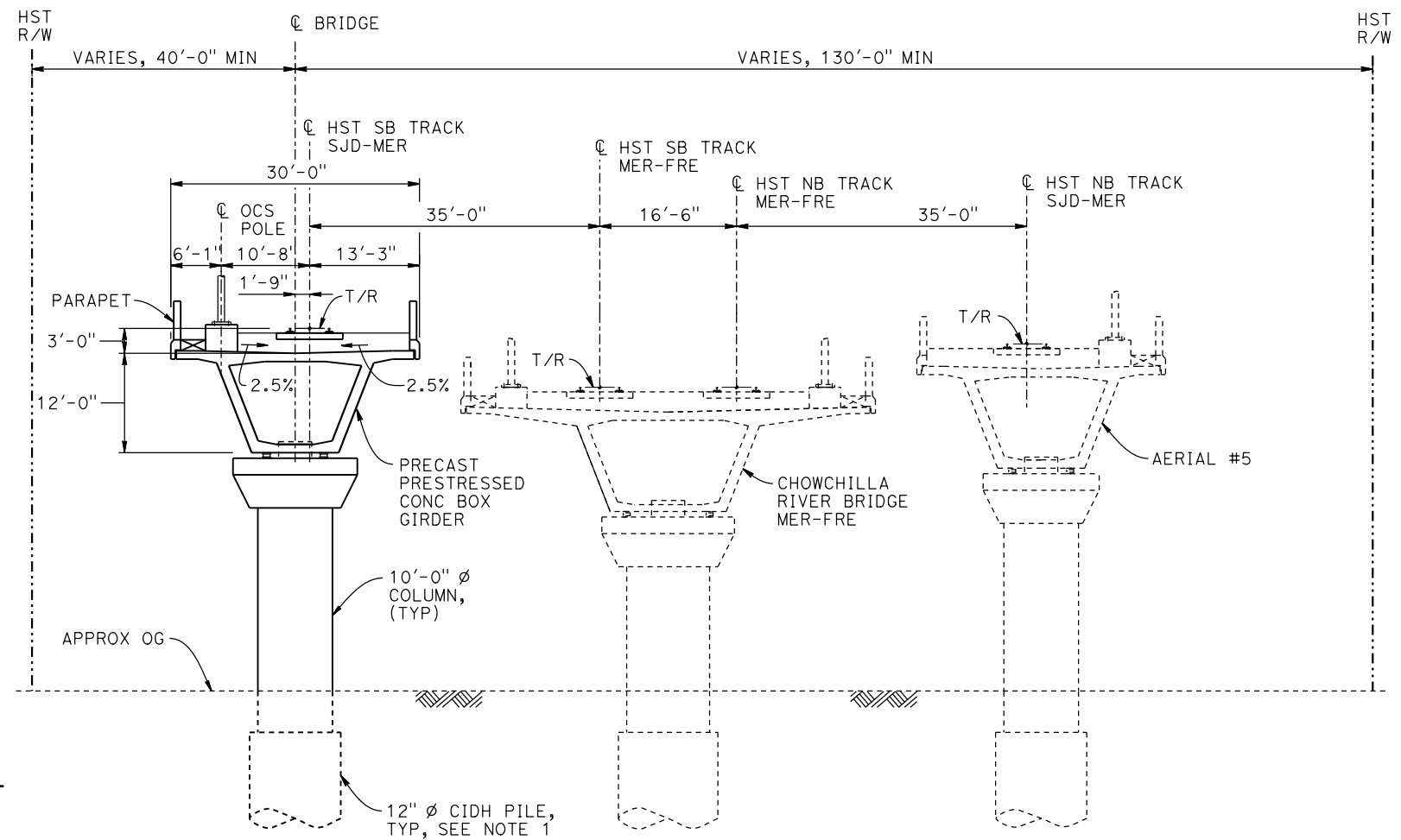
ELEVATION

1" = 50'



PLAN

1" = 50'



TYPICAL SECTION

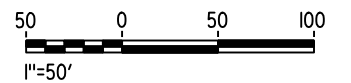
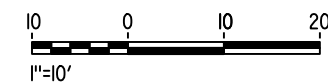
1" = 10'

LEGEND:

- INDICATES DIRECTION OF TRAFFIC
- ~ INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

NOTES:

- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-D.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-D.
- FOR CHOWCHILLA RIVER BRIDGE MER-FRE GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1455-D.
- FOR AERIAL #5 GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1640-D TO ST-K1643-D AND ST-K3640-D TO ST-K3641-D.



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M. BRATT

DRAWN BY
A. M.

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K. CHARAN

IN CHARGE
C. LEMLEY

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
CHOWCHILLA RIVER BRIDGE

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1659-D

SCALE
AS SHOWN

SHEET NO.