

California High-Speed Rail Authority

Merced to Fresno Section: Central Valley Wye

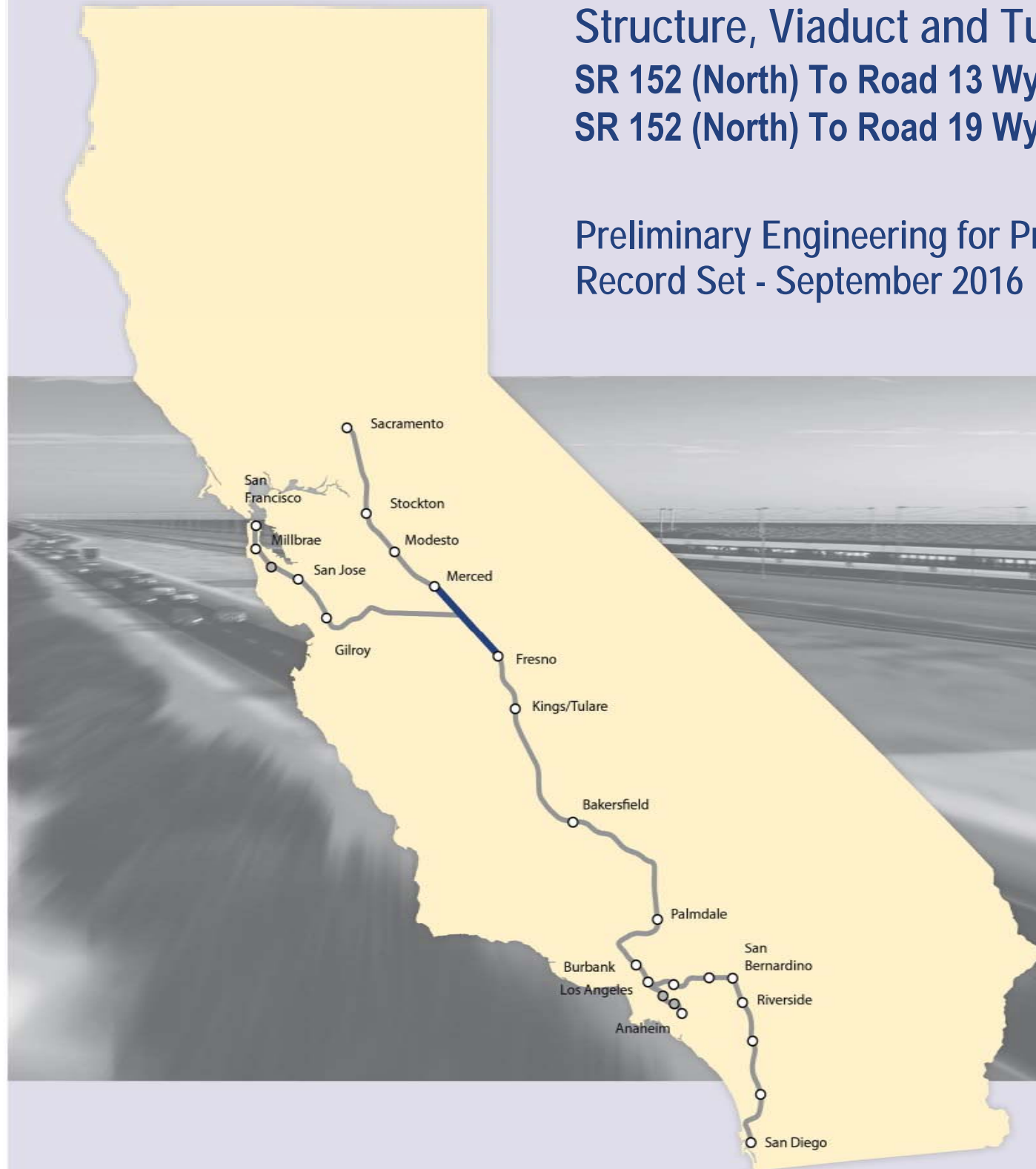
Structure, Viaduct and Tunnel Plans (Book 1 of 2)

SR 152 (North) To Road 13 Wye Alternative

SR 152 (North) To Road 19 Wye Alternative

Preliminary Engineering for Project Definition

Record Set - September 2016



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

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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
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SHEET 1 OF 8

CONTRACT NO.
HSR08-05
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SCALE
NO SCALE
SHEET NO.

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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

16-AUG-2016 07:49 MF-ST-B0003.dgn

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
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SHEET 2 OF 8

CONTRACT NO.
HSR08-05
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SCALE
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DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
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)

16-AUG-2016 07:49 MF-ST-B0004.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
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.

16-AUG-2016 07:49 MF-ST-B0005.dgn

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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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

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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

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REV	DATE	BY	CHK	APP	DESCRIPTION

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M. BRATT
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DATE
08/12/2016

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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 6 OF 8

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

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

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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 7 OF 8

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-B0008
SCALE
NO SCALE
SHEET NO.

INDEX OF DRAWINGS				
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

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MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 STRUCTURE, VIADUCT AND TUNNEL PLANS
 INDEX OF DRAWINGS
 SHEET 8 OF 8

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A

C

D CONTINUED

F CONTINUED

J CONTINUED

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

CAA CABLE ANCHOR ASSEMBLY
 CAP CORRUGATED ALUMINUM PIPE
 CAPA CORRUGATED ALUMINUM PIPE ARCH
 CAS CONSTRUCTION AREA SIGN
 CB CONCRETE BARRIER
 CBW CONCRETE BLOCK WALL
 C-C CENTER TO CENTER
 CHSRA CALIFORNIA HIGH-SPEED RAIL
 CHST CALIFORNIA HIGH-SPEED TRAIN
 CG CENTER OF GRAVITY
 CHNL CHANNEL
 CI CAST IRON
 CIDH CAST-IN-DRILLED-HOLE
 CIP CAST-IN-PLACE, CAST IRON PIPE
 CIPCP CAST-IN-PLACE CONCRETE PIPE
 CISS CAST-IN-STEEL SHELL
 CJP COMPLETE JOINT PENETRATION
 CL CHAIN LINK, CLASS
 CL-6 CHAIN LINK FENCE (6 FT)
 CLR CLEAR, CLEARANCE
 CM CORRUGATED METAL
 CMP CORRUGATED METAL PIPE
 CO COUNTY
 COL COLUMN
 CONC CONCRETE
 COND CONDUIT
 CONN CONNECTOR
 CONST CONSTRUCT, CONSTRUCTION
 CONT CONTINUOUS
 COORD COORDINATE
 CP CANDLEPOWER
 CP1 CONSTRUCTION PACKAGE 1
 CR CREEK
 CRCP CONTINUOUS REINFORCED CONCRETE PAVEMENT
 CRSP CONCRETED ROCK SLOPE PROTECTION
 CRZ CLEAR RECOVERY ZONE
 CS CURVE SPIRAL POINT
 CSP CORRUGATED STEEL PIPE
 CSPA CORRUGATED STEEL PIPE ARCH
 CTB CEMENT TREATED BASE
 CTPB CEMENT TREATED PERMEABLE BASE
 CTPM CEMENT TREATED PERMEABLE MATERIAL
 CTRS CENTERS
 CULV CULVERT
 @ CENTERLINE

D

D DEPTH
 DD DOWNDRAIN
 DBL DOUBLE
 DEG DEGREE
 DEL DELINEATOR

DET DETAIL, DETOUR
 DF DOUGLAS FIR, DIRECT FIXATION
 DI DRAINAGE INLET, DROP INLET
 DIA DIAMETER
 DIAPH DIAPHRAGM
 DIST DISTANCE, DISTRICT
 DMBB DOUBLE METAL BEAM BARRIER
 DR DRIVE
 DTBB DOUBLE THRIE BEAM BARRIER
 DWY DRIVEWAY

E

E EAST
 EA ACTUAL SUPERELEVATION
 EASE EASEMENT
 EB END OF BRIDGE, EASTBOUND
 EC END HORIZONTAL CURVE
 ECR END CURB RETURN
 ED EDGE DRAIN
 EDC EDGE DRAIN CLEANOUT
 EDO EDGE DRAIN OUTLET
 EDV EDGE DRAIN VENT
 ELEC ELECTROLIER
 ELECT ELECTRIC
 ELEV ELEVATION
 EMB EMBANKMENT
 ENGR ENGINEER
 EOD EDGE OF DECK
 EP EDGE OF PAVEMENT
 EQ EQUATION
 ES EDGE OF SHOULDER
 ET END TUNNEL
 ETW EDGE OF TRAVELED WAY
 EU UNBALANCED SUPERELEVATION
 EVC END VERTICAL CURVE
 EW ENDWALL
 EXC EXCAVATION
 EXIST, (E) EXISTING
 EXP EXPANSION, EXPRESSWAY
 EXP JT EXPANSION JOINT
 EXT EXTERIOR

F

F & C FRAME AND COVER
 F & G FRAME AND GRATE
 FB FLOOR BEAM
 FDN FOUNDATION
 FEBT FACING EASTBOUND TRAFFIC
 FES FLARED END SECTION
 FF FILTER FABRIC
 FG FINISHED GRADE
 FH FIRE HYDRANT
 FIG FIGURE
 FL FLOW LINE

FNTB FACING NORTHBOUND TRAFFIC
 FOB FREE ON BOARD
 FOC FACE OF CONCRETE
 FR RD FRONTAGE ROAD
 FRE FRESNO
 FS FAR SIDE, FINISHED SURFACE
 FSBT FACING SOUTHBOUND TRAFFIC
 FTG FOOTING
 FWBT FACING WESTBOUND TRAFFIC
 FWY FREEWAY

G

G GRADE, ACCELERATION DUE TO GRAVITY
 GA GAGE
 GALV GALVANIZED
 GP GRADING PLANE
 GR GUARD RAILING
 GRDR GIRDER
 GSP GALVANIZED STEEL PIPE
 GTR GUTTER

H

H HEIGHT
 H, HR HOUR
 HD HORIZONTAL DRAIN
 HDWL HEADWALL
 HEX HD HEXAGONAL HEAD
 HMA HOT MIXED ASPHALT
 HORIZ HORIZONTAL
 HP HINGE POINT, HORSEPOWER
 HPS HIGH PERFORMANCE STEEL
 HS HIGH STRENGTH
 HSR HIGH-SPEED RAIL
 HST HIGH-SPEED TRAIN
 HW HEADWALL,
 100-YR HIGH WATER (UNLESS NOTED OTHERWISE)
 HWM HIGH WATER MARK
 HWY HIGHWAY

I

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

J

JCT JUNCTION
 JP JOINT POLE
 JPCP JOINTED PLAIN CONCRETE PAVEMENT

JS JUNCTION STRUCTURE
 JT JOINT
 L LENGTH
 LAT LATITUDE
 LCB LEAN CONCRETE BASE
 LLT LAST LONG TIE
 LN LANE
 LOC LOCATION
 LOL LAYOUT LINE
 LONG LONGITUDE
 LONGIT LONGITUDINAL
 LS LUMP SUM, LENGTH OF SPIRAL
 LT LEFT
 LVC LENGTH OF VERTICAL CURVE

M

MAINT MAINTENANCE
 MAX MAXIMUM
 MB METAL BEAM
 MBB METAL BEAM BARRIER
 MBGR METAL BEAM GUARD RAILING
 MED MEDIAN
 MER MERCED
 MF MERCED TO FRESNO
 MH MANHOLE
 MIN MINIMUM
 MISC MISCELLANEOUS
 MISC I & S MISCELLANEOUS IRON AND STEEL
 MKR MARKER
 MOD MODIFIED, MODIFY
 MON MONUMENT
 MOW MAINTENANCE-OF-WAY FACILITY
 MP METAL PLATE
 MPGR METAL PLATE GUARD RAILING
 MPH MILES PER HOUR
 MR MOVEMENT RATING
 MSE MECHANICALLY STABILIZED EARTH
 MTL MATERIAL

N

N NORTH
 NB NORTHBOUND
 NC NORMAL CROWN
 NIC NOT IN CONTRACT
 NO. NUMBER (MUST HAVE PERIOD)
 NOS. NUMBERS (MUST HAVE PERIOD)
 NPS NOMINAL PIPE SIZE
 NS NEAR SIDE
 NTS NOT TO SCALE

O

OBLR OBLITERATE

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. LEMLEY
 DRAWN BY
J. KIDWELL
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 DATE
08/12/2016

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

CENTRAL VALLEY WYE
STRUCTURE, VIADUCT AND TUNNEL PLANS
ABBREVIATIONS
SHEET 1 OF 2

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-B0010
SCALE
NO SCALE
SHEET NO.

O CONTINUED

OC OVERCROSSING
 OCS OVERHEAD CONTACT SYSTEM
 OD OUTSIDE DIAMETER
 OF OUTSIDE FACE
 OG ORIGINAL GROUND
 OGAC OPEN GRADED ASPHALT CONCRETE
 OH OVERHEAD
 O-O OUT TO OUT
 OPP OPPOSITE

P

P PAGE
 PAP PERFORATED ALUMINUM PIPE
 PB PULL BOX, PHASE BREAK
 PC POINT OF CURVATURE, PRECAST
 PCC POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
 PCP PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
 PCVC POINT OF COMPOUND VERTICAL CURVE
 PED PEDESTRIAN
 PED OC PEDESTRIAN OVERCROSSING
 PED UC PEDESTRIAN UNDERCROSSING
 PERM MTL PERMEABLE MATERIAL
 PG PROFILE GRADE
 PG&E PACIFIC GAS AND ELECTRIC
 PI POINT OF INTERSECTION
 PITO POINT OF INTERSECTION TURNOUT
 PJP PARTIAL JOINT PENETRATION
 PL, PL PLATE
 P/L PROPERTY LINE
 PM POST MILE, TIME FROM NOON TO MIDNIGHT
 PN PAVING NOTCH
 POB POINT OF BEGINNING
 POC POINT OF HORIZONTAL CURVE
 POE POINT OF END
 POT POINT OF TANGENT
 POVC POINT OF VERTICAL CURVE
 PP PIPE PILE, PLASTIC PIPE, POWER POLE
 PPL PREFORMED PERMEABLE LINER
 PPP PERFORATED PLASTIC PIPE
 PRC POINT OF REVERSE CURVE
 PRF PAVEMENT REINFORCING FABRIC
 PRVC POINT OF REVERSE VERTICAL CURVE
 PS&E PLANS, SPECIFICATIONS AND ESTIMATES
 PS, P/S POINT OF SWITCH, PRESTRESSED, PARALLELING STATION
 PSP PERFORATED STEEL PIPE
 PT POINT OF TANGENCY
 PVC POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE

P CONTINUED

PVI POINT OF VERTICAL INTERSECTION
 PVMT PAVEMENT
 PVT POINT OF VERTICAL TANGENT

Q

QTY QUANTITY

R

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

S

S SOUTH, SUPPLEMENT
 SAE STRUCTURE APPROACH EMBANKMENT
 SALV SALVAGE
 SAPP STRUCTURAL ALUMINUM PLATE PIPE
 SB SOUTHBOUND
 SC SAND CUSHION, SPIRAL CURVE POINT
 SCSP SLOTTED CORRUGATED STEEL PIPE
 SD STORM DRAIN
 SEC SECOND, SECTION
 SEP SEPARATION
 SG SUBGRADE
 SHLD SHOULDER
 SHT SHEET
 SIM SIMILAR
 SJD SAN JOSE DIRIDON STATION

S CONTINUED

SJM SAN JOSE TO MERCED
 SJV SAN JOAQUIN VALLEY
 S STATION LINE
 SM SELECTED MATERIAL
 SPEC SPECIAL, SPECIFICATIONS
 SPP SLOTTED PLASTIC PIPE
 SR STATE ROUTE
 SRS STANDALONE RADIO SITE
 SS SLOPE STAKE, SUBSTATION
 SSBM STRAP AND SADDLE BRACKET METHOD
 SSD STRUCTURAL SECTION DRAIN
 SSPA STRUCTURAL STEEL PLATE ARCH
 SSPP STRUCTURAL STEEL PLATE PIPE
 SSPPA STRUCTURAL STEEL PLATE PIPE ARCH
 SSRP STEEL SPIRAL RIB PIPE
 ST STREET, SPIRAL TANGENT POINT
 STA STATION
 STBB SINGLE THRIE BEAM BARRIER
 STD STANDARD
 STR STRUCTURE
 SURF SURFACING
 SW SIDEWALK, SOUND WALL
 SWR SEWER
 SWS SWITCHING STATION
 SYM SYMMETRICAL
 S4S SURFACE 4 SIDES

T

T SEMI-TANGENT
 TAB TABLET
 TAN TANGENT
 TBB THRIE BEAM BARRIER
 TBD TO BE DETERMINED
 TBR TIMBER
 TC TOP OF CURB, TRAIN CONTROL
 TCB TRAFFIC CONTROL BOX
 TCE TEMPORARY CONSTRUCTION EASEMENT
 TEL TELEPHONE
 TEMP TEMPORARY
 TG TOP OF GRADE
 TM TECHNICAL MEMORANDUM
 TO TURNOUT
 TOT TOTAL
 TP TELEPHONE POLE
 TPB TREATED PERMEABLE BASE
 TPF TRACTION POWER FACILITY
 TPM TREATED PERMEABLE MATERIAL
 TPSS TRACTION POWER SUBSTATION
 T/R TOP OF RAIL
 TRANS TRANSITION
 TRK TRACK

T CONTINUED

TS TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL, TANGENT SPIRAL POINT
 TYP TYPICAL

U

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

V

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

W

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

X

X SEC CROSS SECTION
 XING CROSSING
 XO CROSSOVER

Y

YR YEAR
 YRS YEARS

16-AUG-2016 1:16 MF-ST-B0011.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. LEMLEY
 DRAWN BY
J. KIDWELL
 CHECKED BY
A. M.
 IN CHARGE
C. LEMLEY
 DATE
08/12/2016

RECORD SET
15% DESIGN
SUBMITTAL

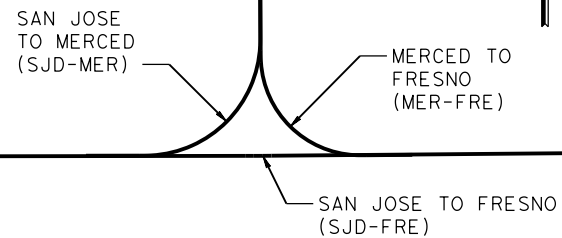
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 STRUCTURE, VIADUCT AND TUNNEL PLANS
 ABBREVIATIONS
 SHEET 2 OF 2

CONTRACT NO.
HSR08-05
 DRAWING NO.
ST-B0011
 SCALE
NO SCALE
 SHEET NO.

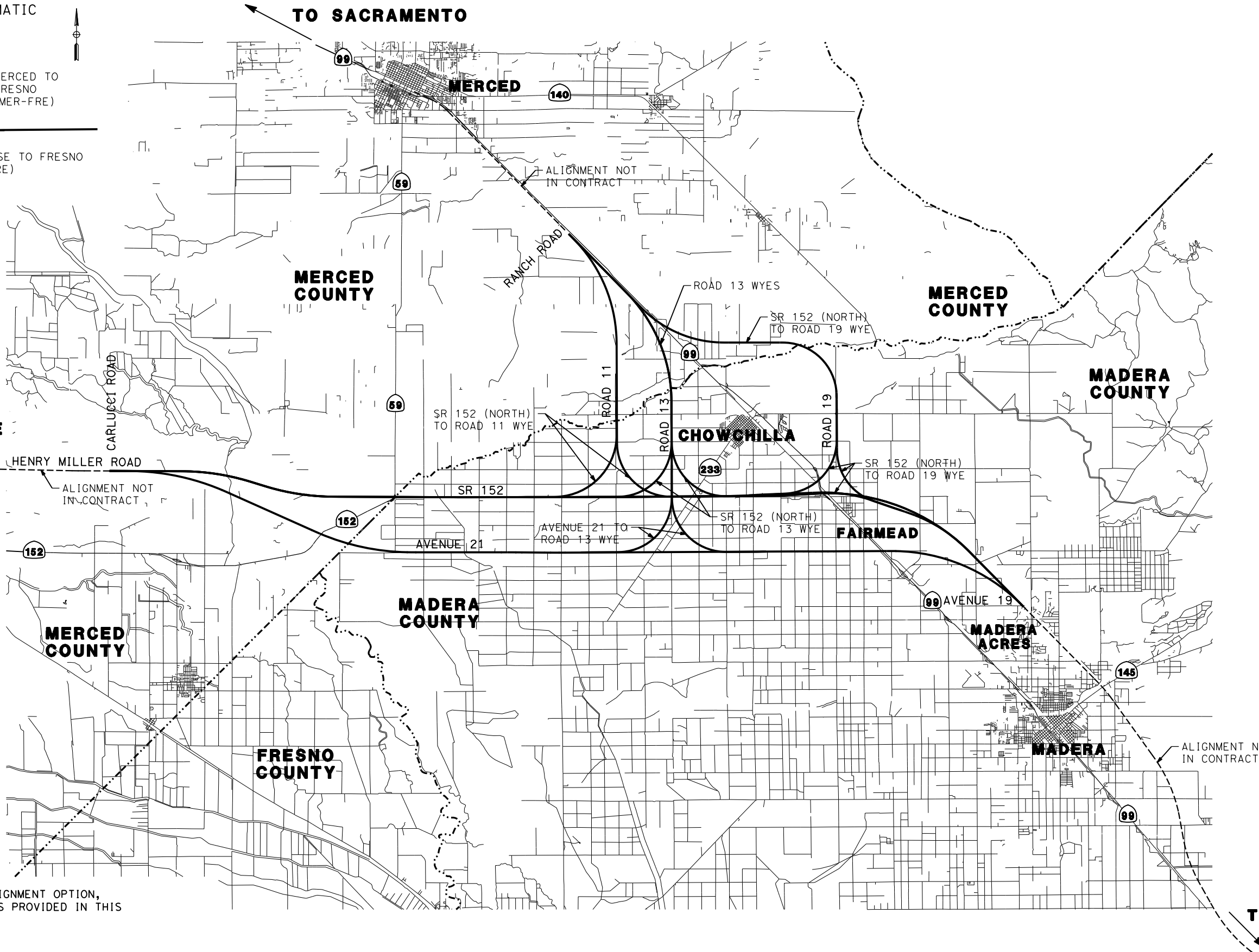
WYE CONNECTIONS SCHEMATIC



TO SAN JOSE

TO SACRAMENTO

HENRY MILLER ROAD
ALIGNMENT NOT IN CONTRACT



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

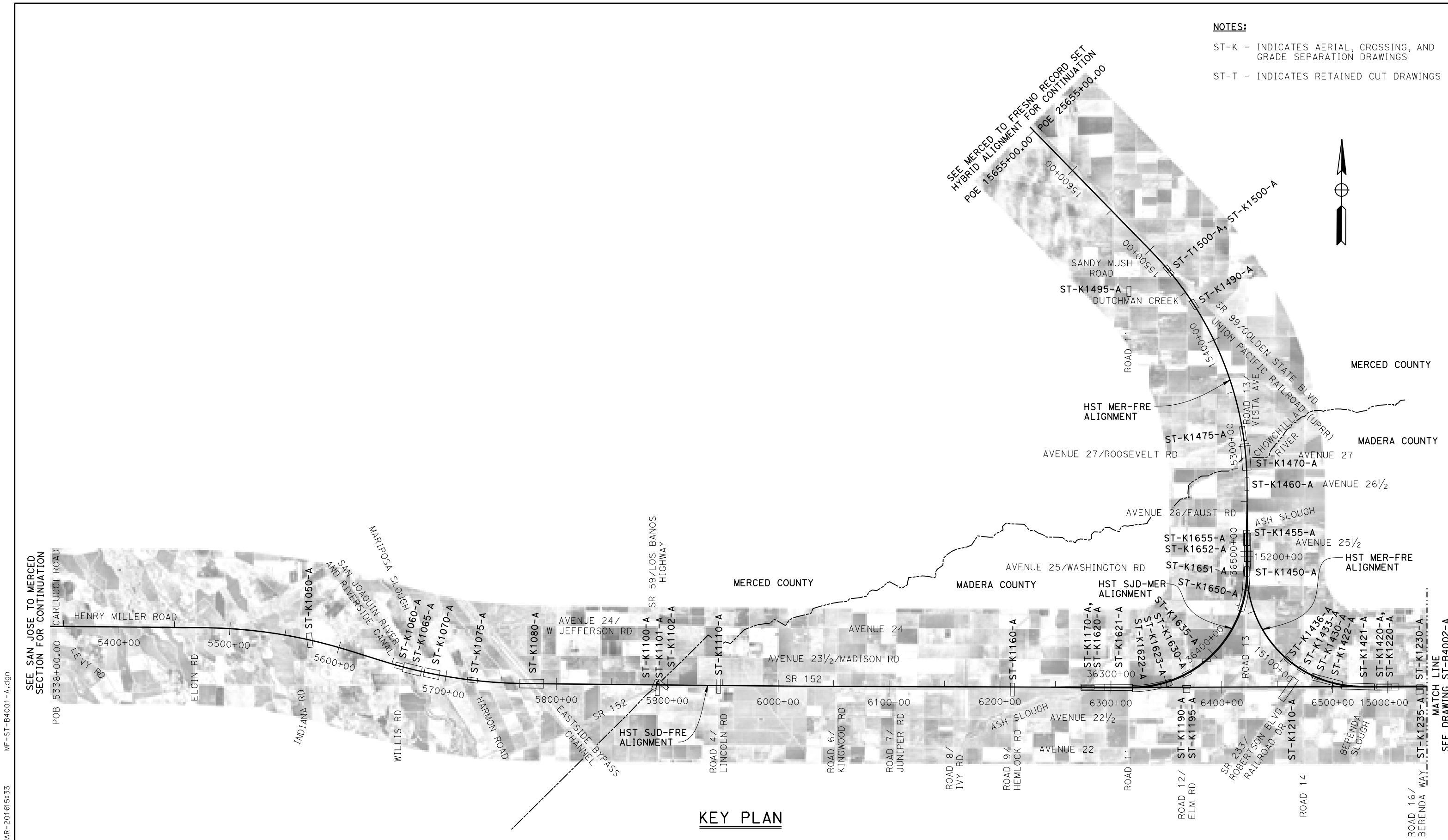


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
STRUCTURE, VIADUCT AND TUNNEL PLANS
LOCATION PLAN

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



SEE SAN JOSE TO MERCED SECTION FOR CONTINUATION

SEE MERCED TO FRESNO RECORD SET HYBRID ALIGNMENT FOR CONTINUATION

SEE DRAWING ST-B4002-A

KEY PLAN

10-MAR-2016 5:33 MF-ST-B4001-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
J. KIDWELL

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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
KEY MAP OF STRUCTURAL PLANS
SHEET 1 OF 2

CONTRACT NO.
HSR08-05

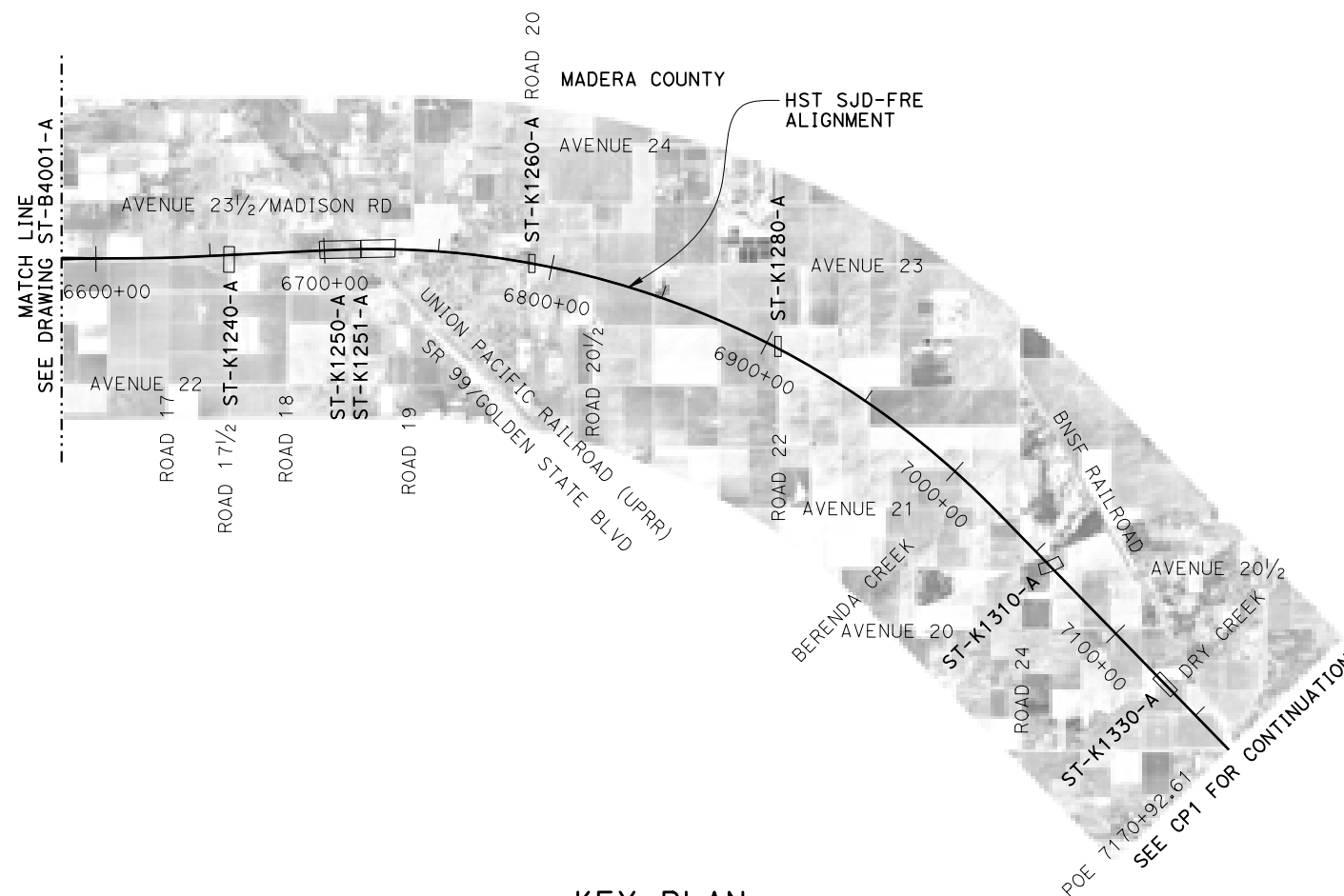
DRAWING NO.
ST-B4001-A

SCALE
N. T. S.

SHEET NO.

NOTES:

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



KEY PLAN

10-MAR-2016 5:35 MF-ST-B4002-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
J. KIDWELL

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

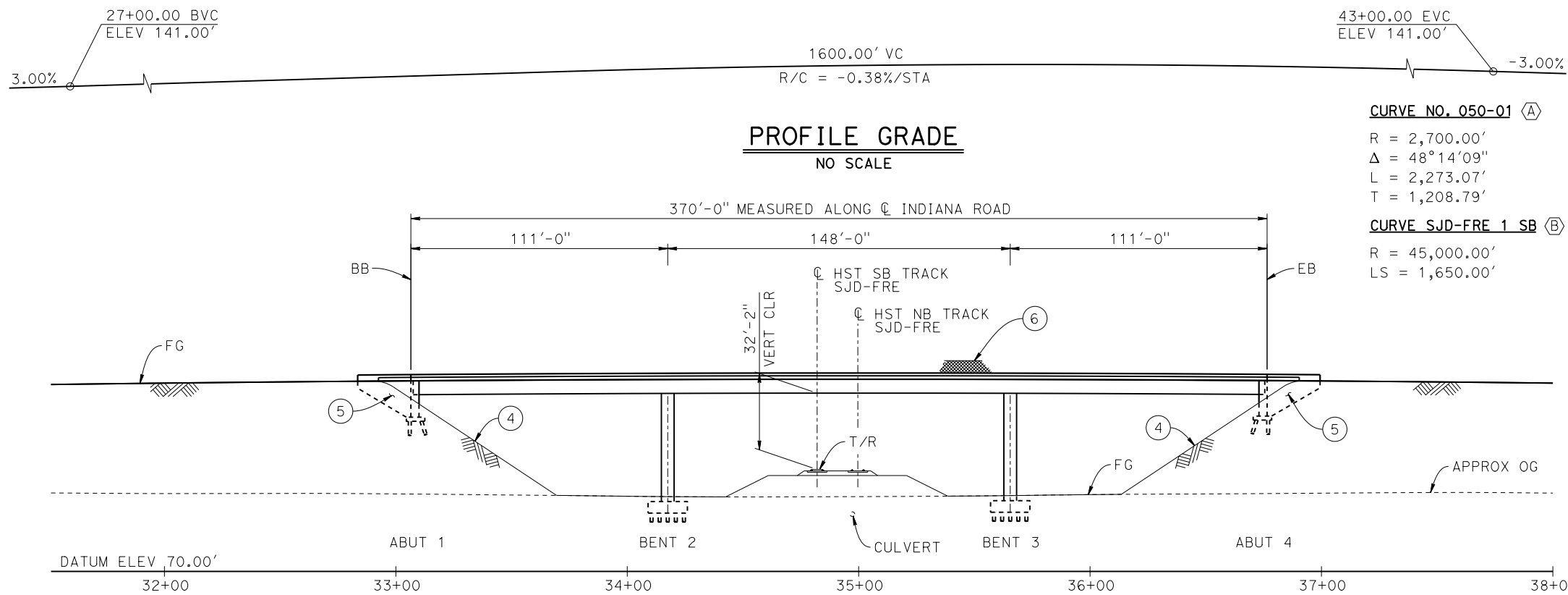
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
KEY MAP OF STRUCTURAL PLANS
SHEET 2 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-B4002-A

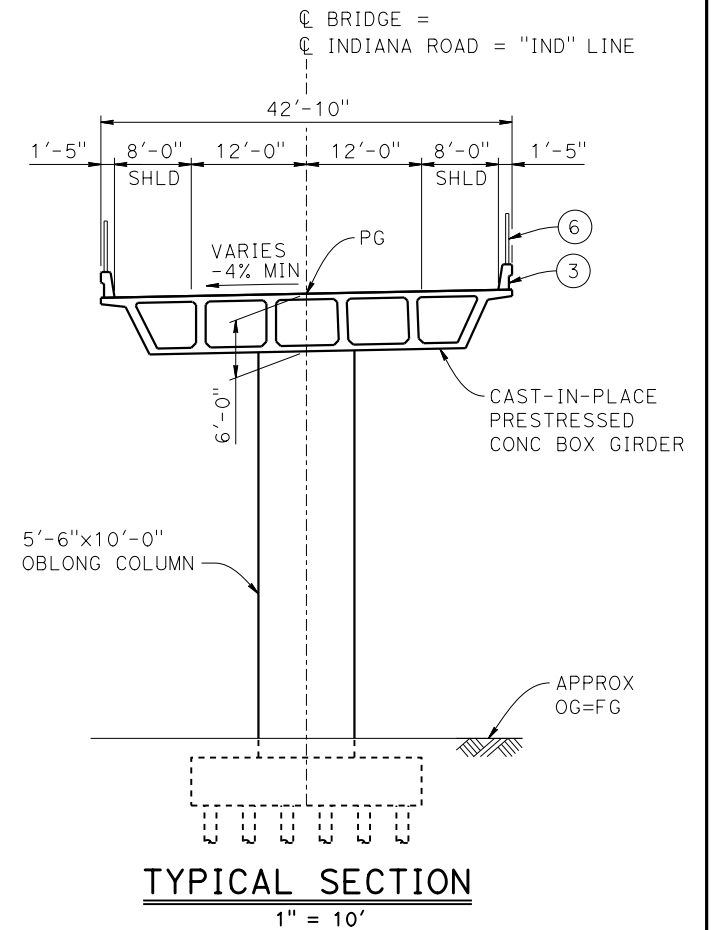
SCALE
N. T. S.

SHEET NO.

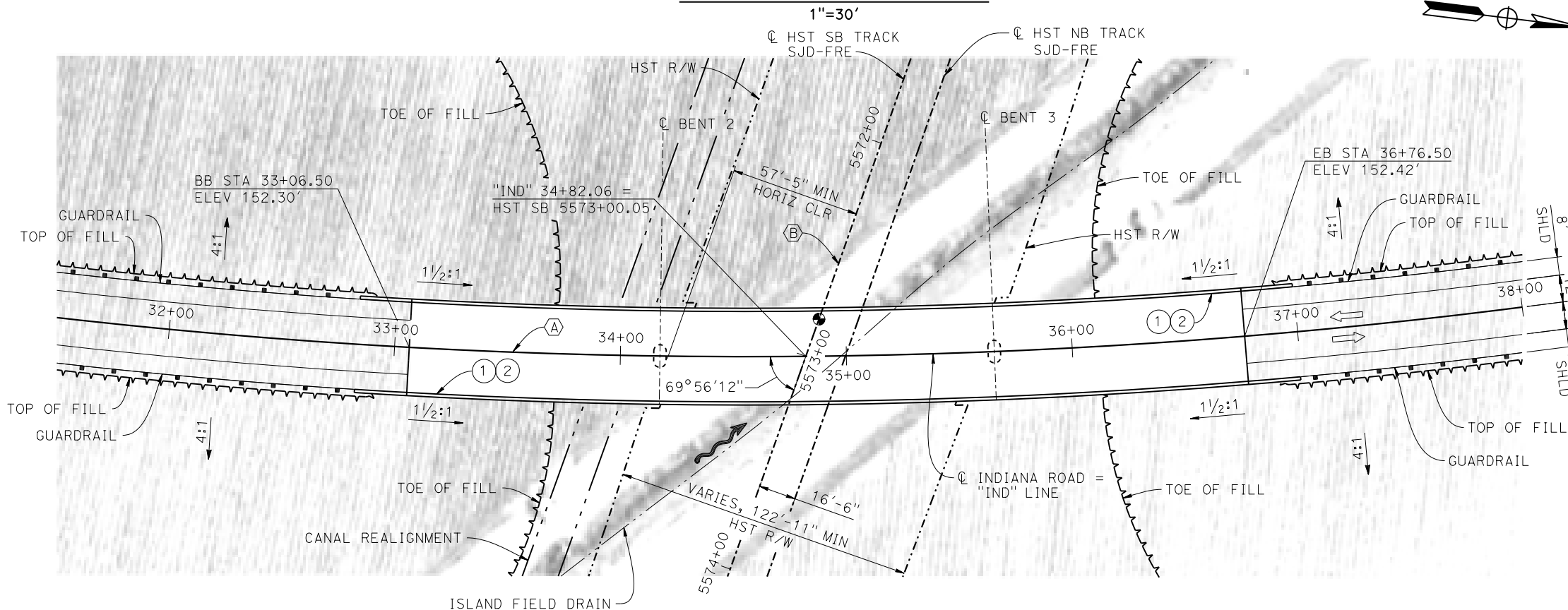


CURVE NO. 050-01 (A)
 R = 2,700.00'
 $\Delta = 48^\circ 14' 09''$
 L = 2,273.07'
 T = 1,208.79'

CURVE SJD-FRE 1 SB (B)
 R = 45,000.00'
 LS = 1,650.00'



DEVELOPED ELEVATION
 1"=30'



LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- INDICATES DIRECTION OF TRAFFIC
- (1) PAINT "INDIANA ROAD 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-S1050-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A.
4. FOR CULVERT AND CANAL REALIGNMENT, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A.



16-MAR-2016 16:38 MF-ST-K1050-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
J. KIDWELL

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

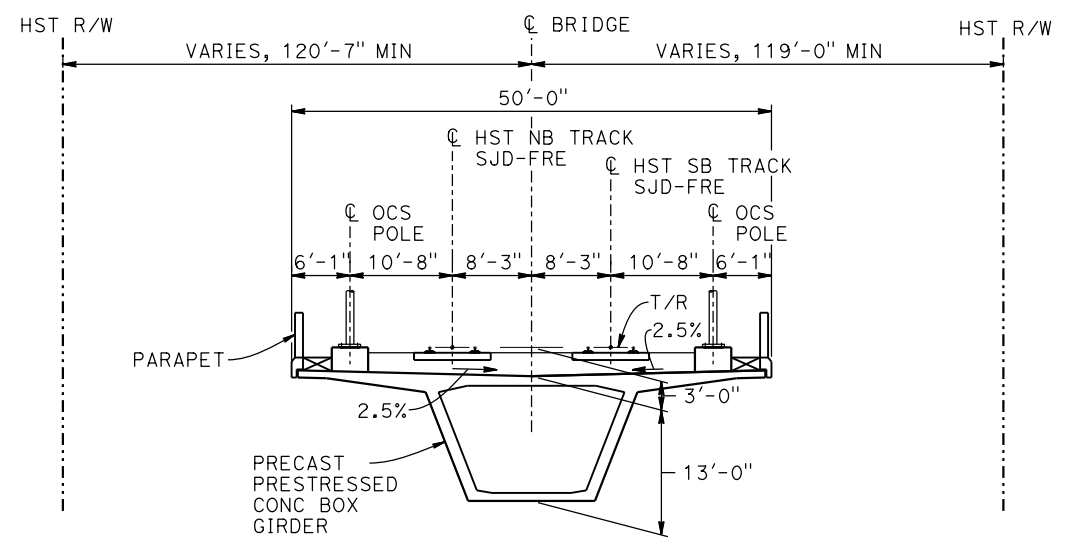
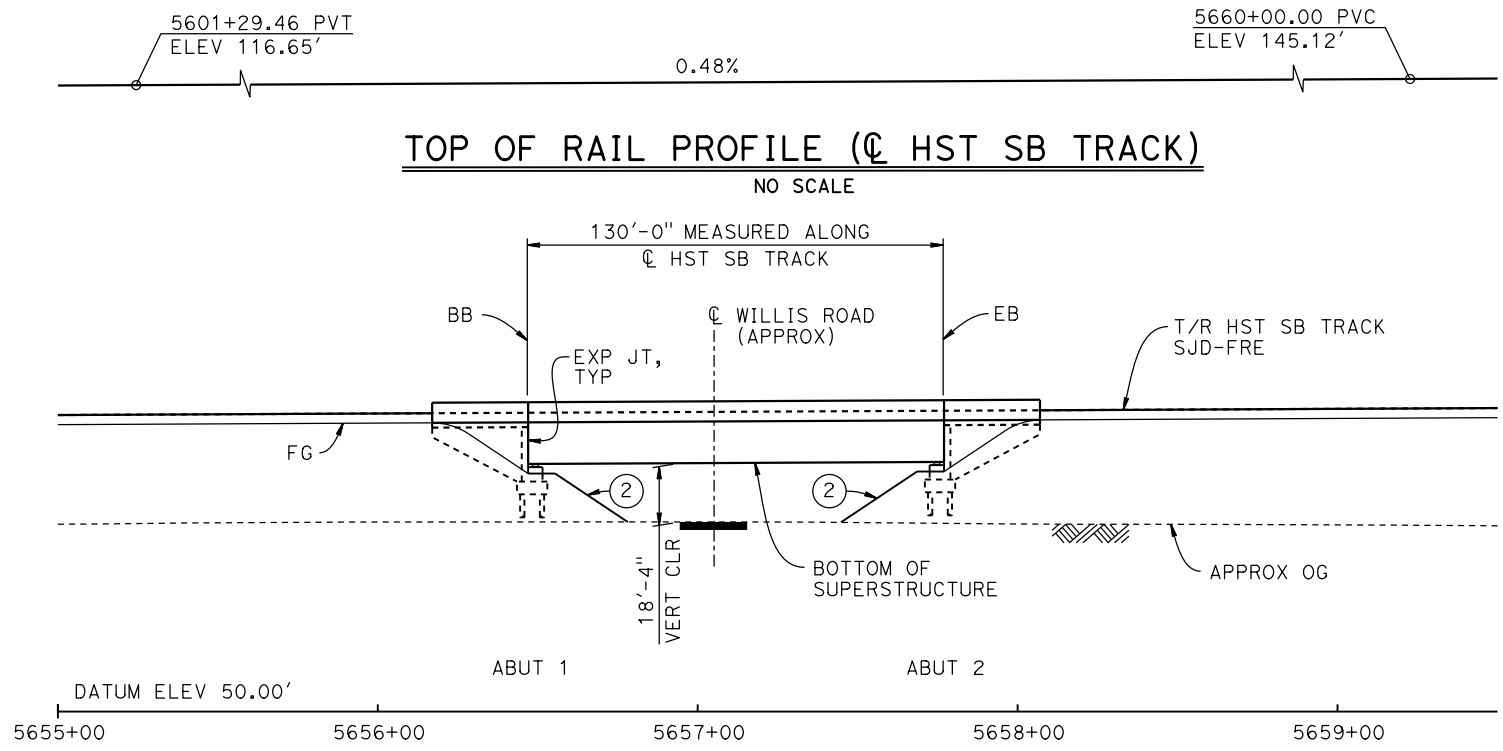
CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 INDIANA ROAD OVERHEAD

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1050-A

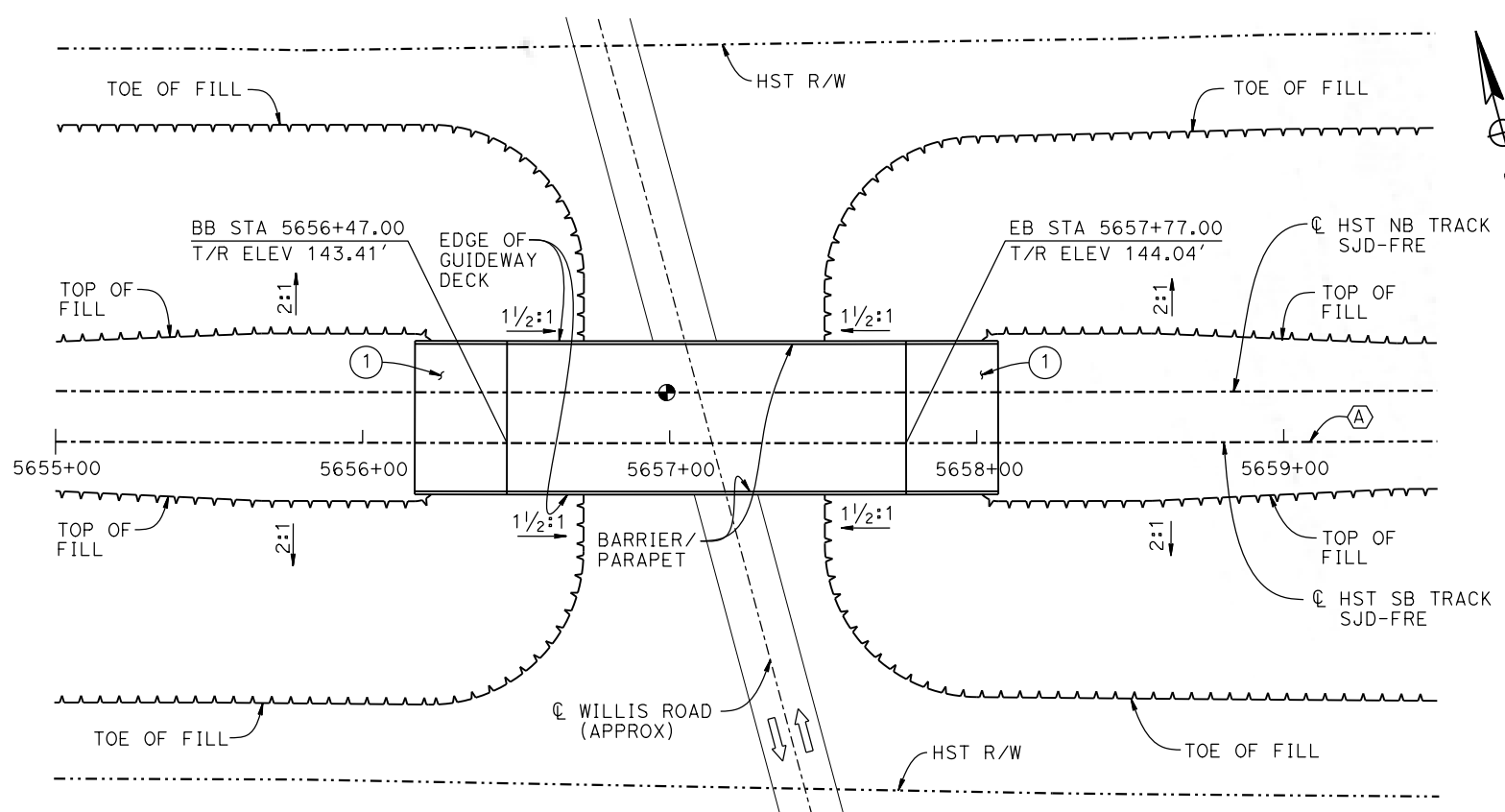
SCALE
AS SHOWN

SHEET NO.



TYPICAL SECTION
1" = 10'

DEVELOPED ELEVATION
1" = 30'



PLAN
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)
WILLIS ROAD	5657+14 32'X16.5' 2-WAY
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.	

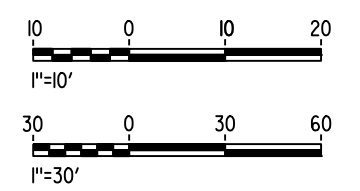
LEGEND:

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

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE 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-S1060-A.
4. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-A.

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



06-FEB-2015 16:05 MF-ST-K1060-A.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
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

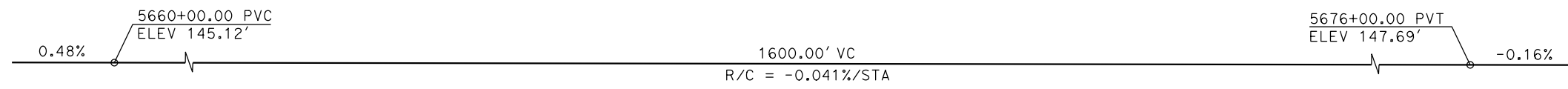
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
WILLIS ROAD UNDERPASS

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1060-A

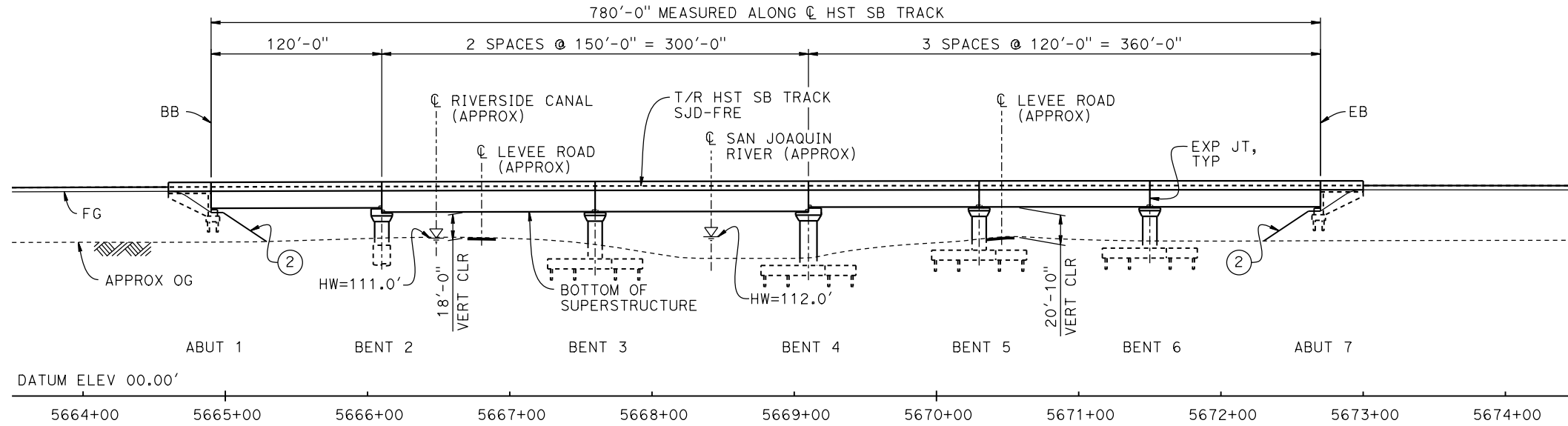
SCALE
AS SHOWN

SHEET NO.



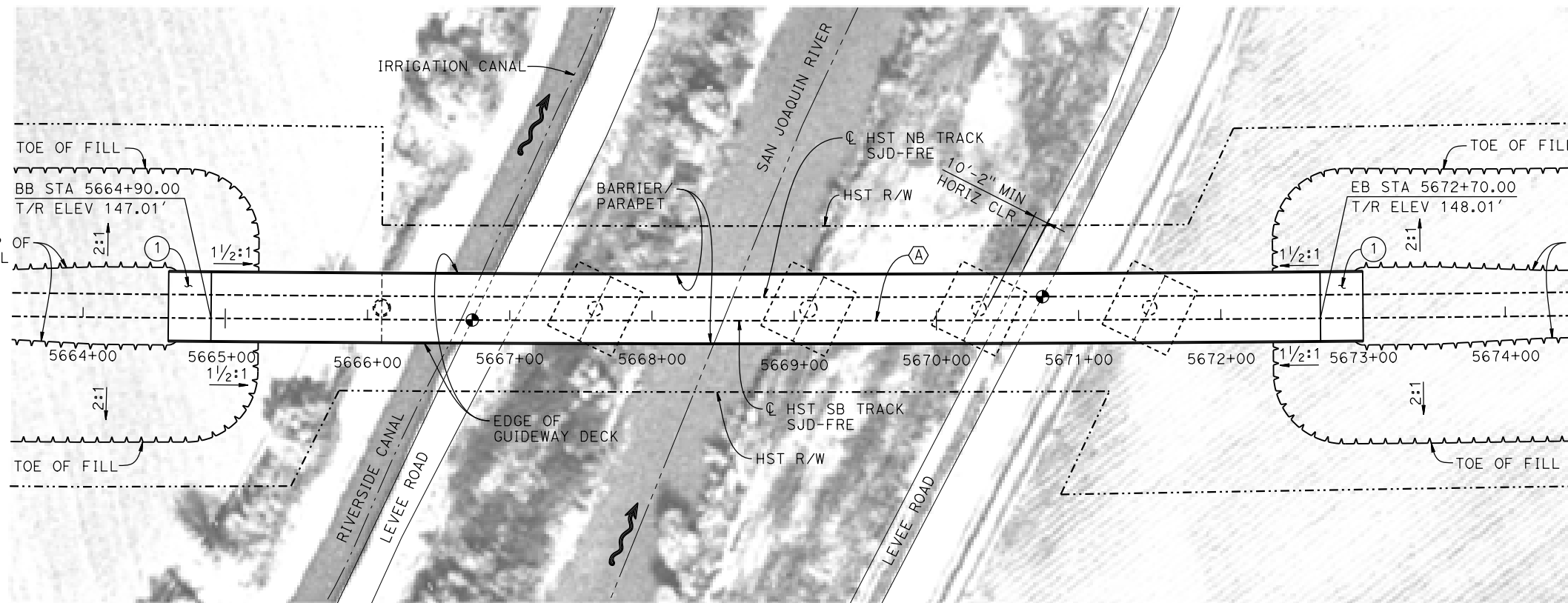
TOP OF RAIL PROFILE (@ HST SB TRACK)

NO SCALE



DEVELOPED ELEVATION

1" = 50'



PLAN

1" = 50'

LEGEND:

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

CURVE SJD-FRE 2 SB (A)

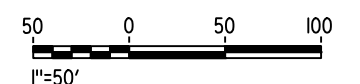
R = 45,016.50'
LS = 1,550.00'

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)	
LEVEE ROAD	5666+85	20'X16.5'	-
LEVEE ROAD	5670+55	20'X16.5'	-
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3065-A.
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-S1060-A.



06-FEB-2015 7:29 MF-ST-K1065-A.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
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

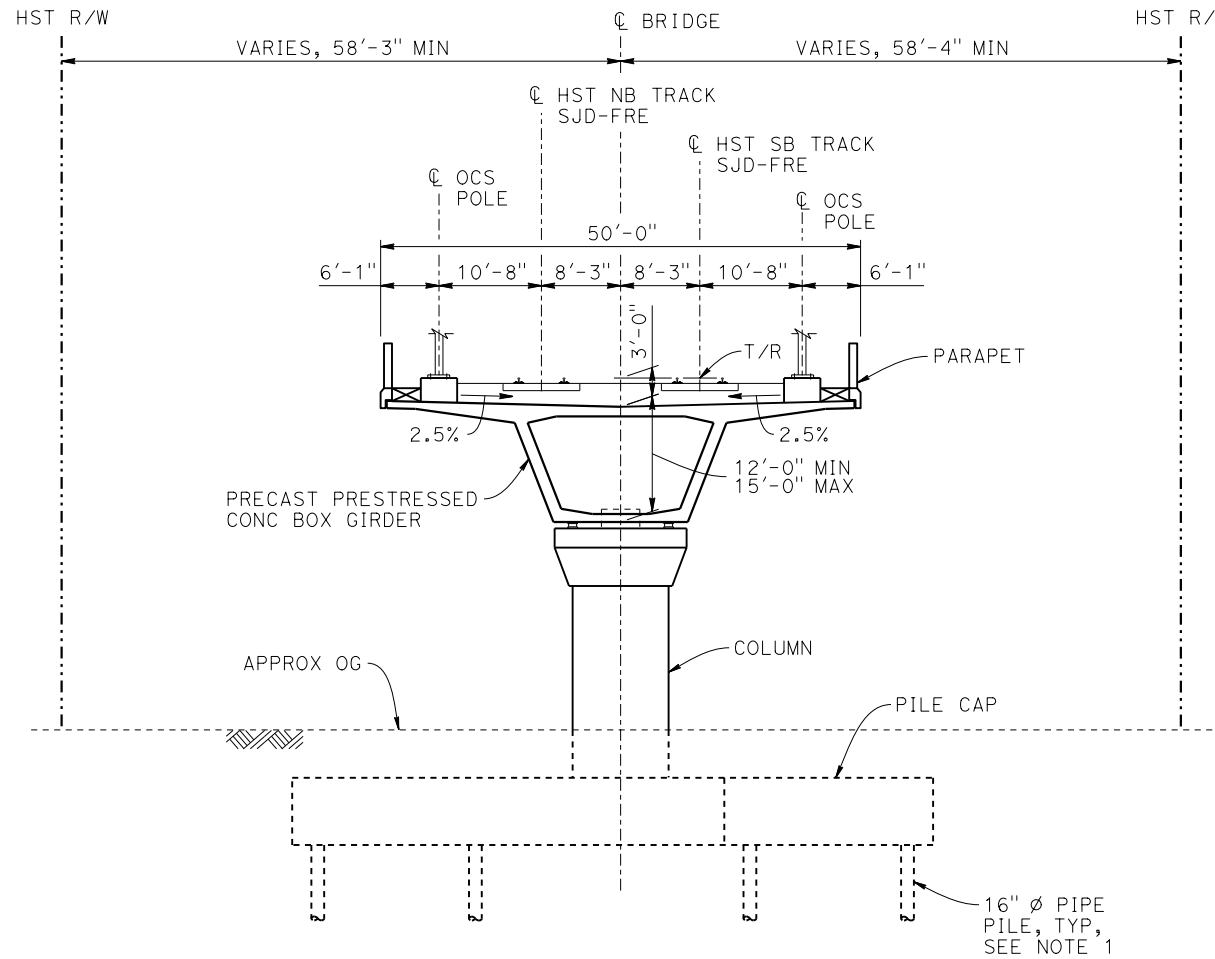
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
SAN JOAQUIN RIVER BRIDGE - 1 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1065-A

SCALE
AS SHOWN

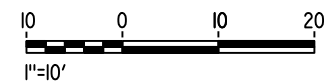
SHEET NO.



TYPICAL SECTION
1" = 10'

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

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



p005133g 09-FEB-2015 09:58 MF-ST-K3065-A.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
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

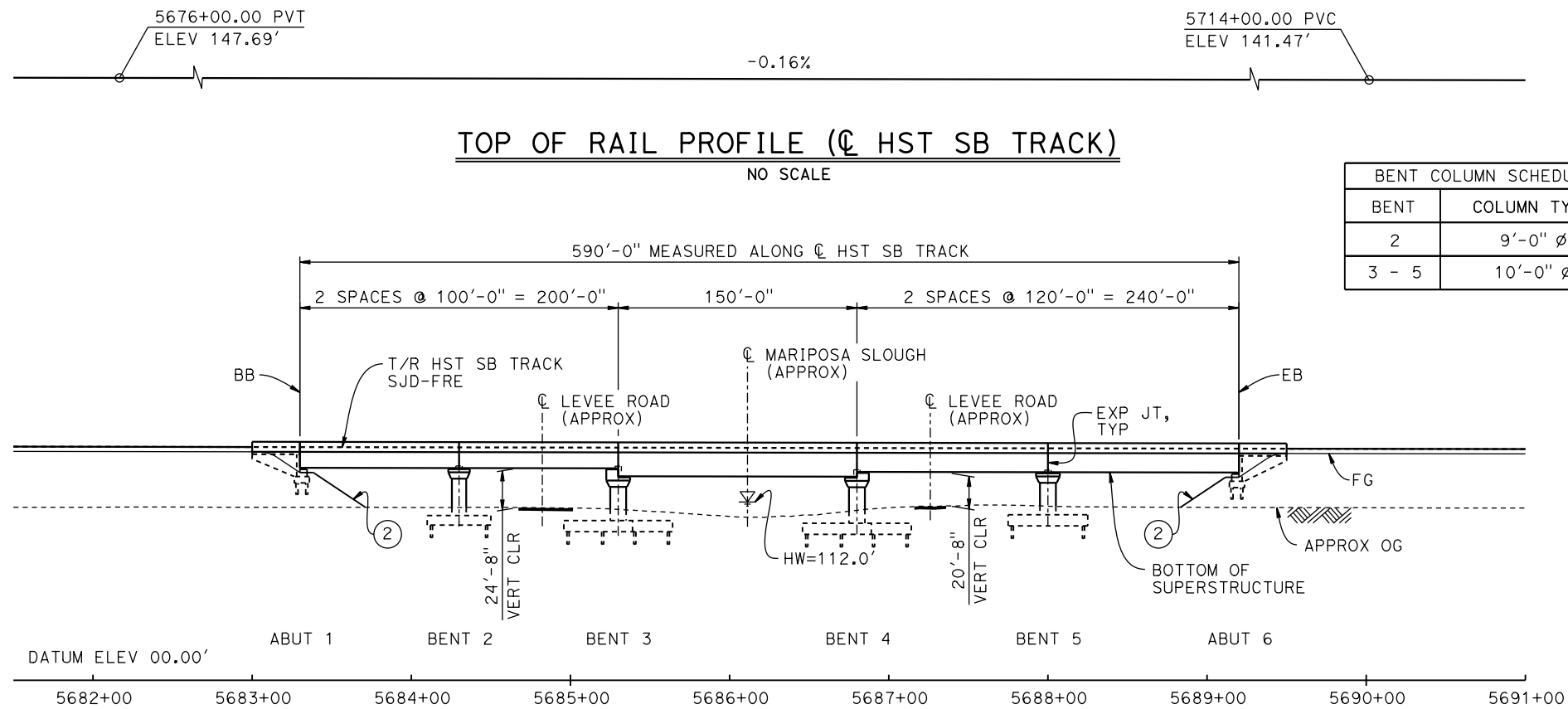
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
SAN JOAQUIN RIVER BRIDGE - 2 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K3065-A

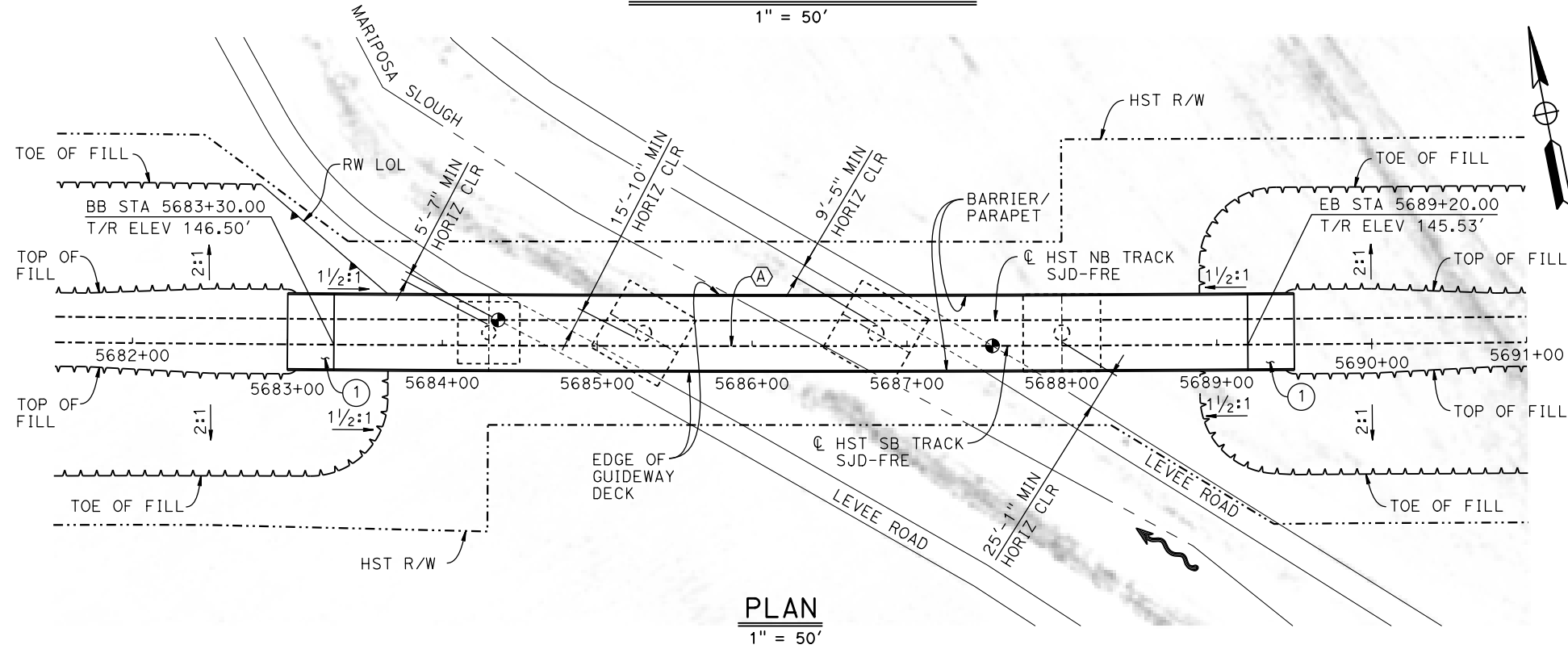
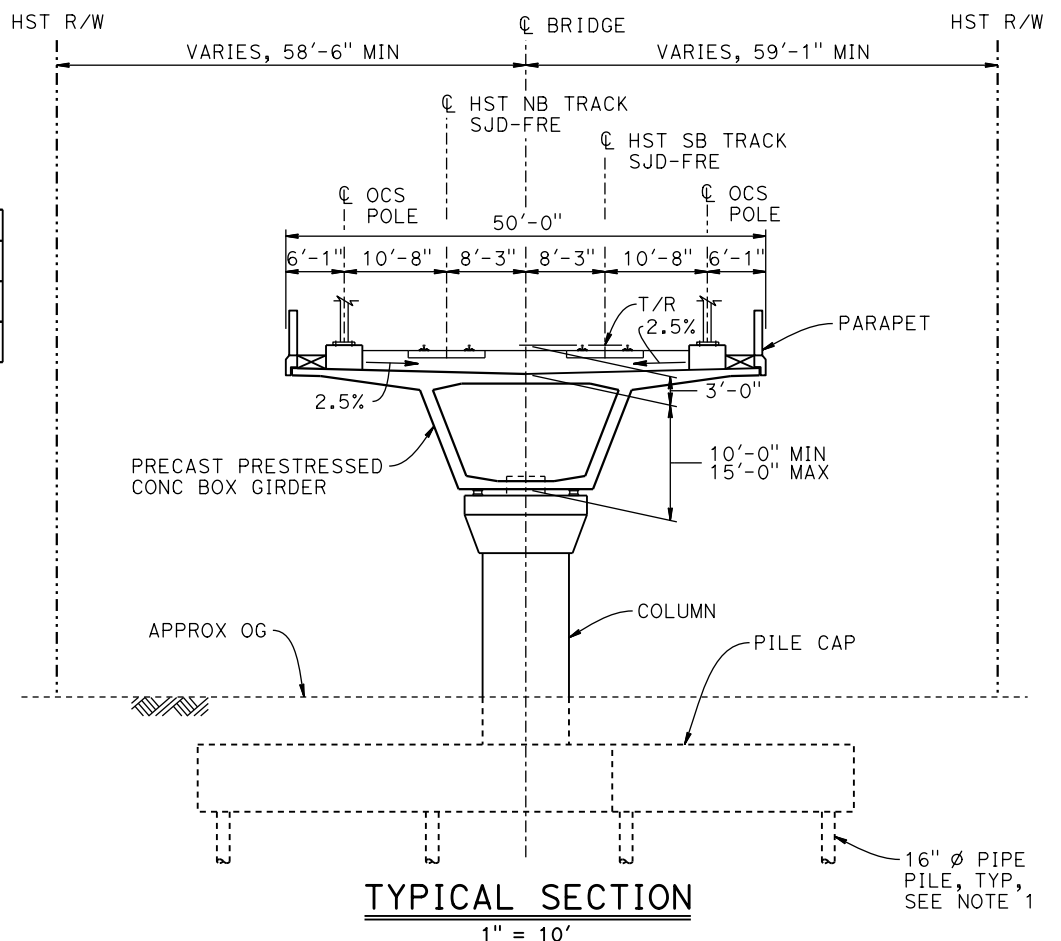
SCALE
AS SHOWN

SHEET NO.



BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2	9'-0" ϕ
3 - 5	10'-0" ϕ

DEVELOPED ELEVATION
1" = 50'



NOTES:

- 16" ϕ 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-S1070-A.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-A.
- FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1070-A.

LEGEND:

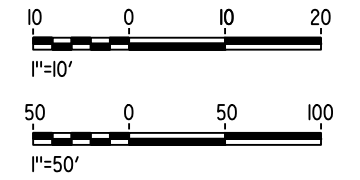
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- STRUCTURE APPROACH
- SLOPE PAVING (1 1/2 H:1 V)

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)	
LEVEE ROAD	5684+85	20'X16.5'	-
LEVEE ROAD	5687+40	20'X16.5'	-
3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

CURVE SJD-FRE 2 SB (A)

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



16-MAR-2016 8:16 MF-ST-K1070-A.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

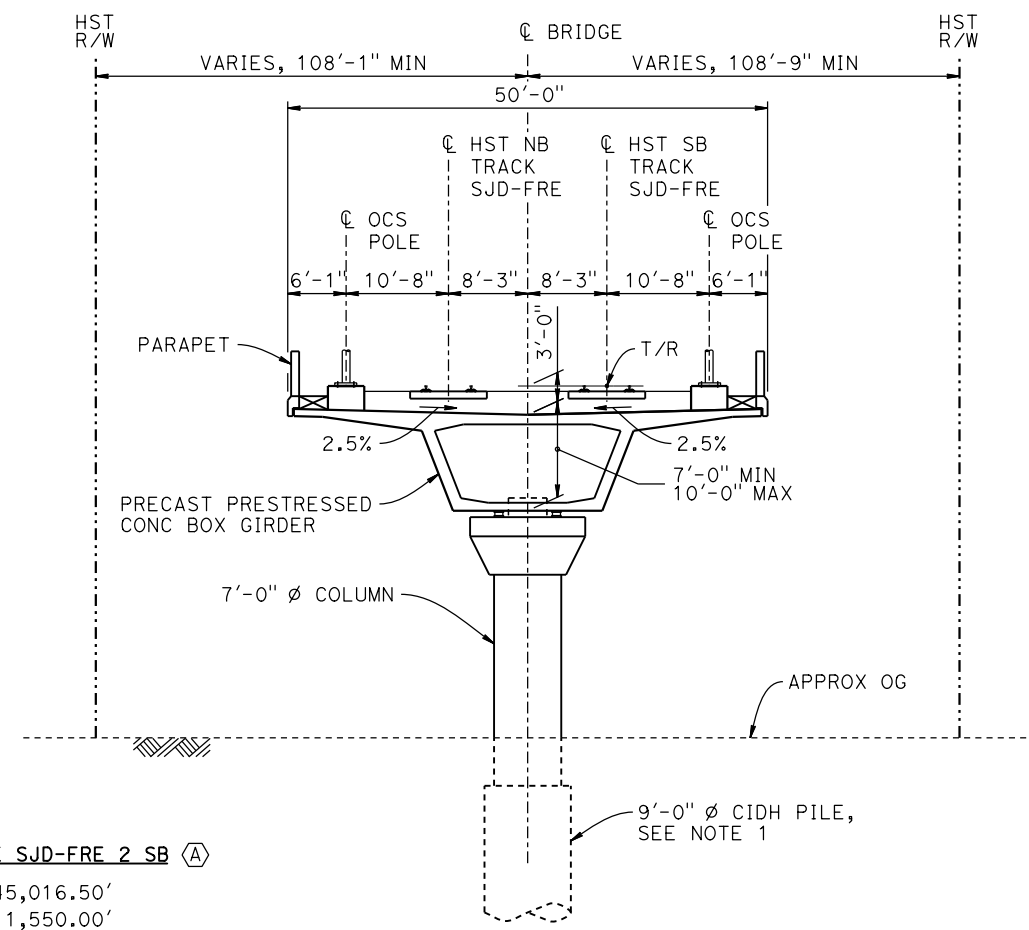
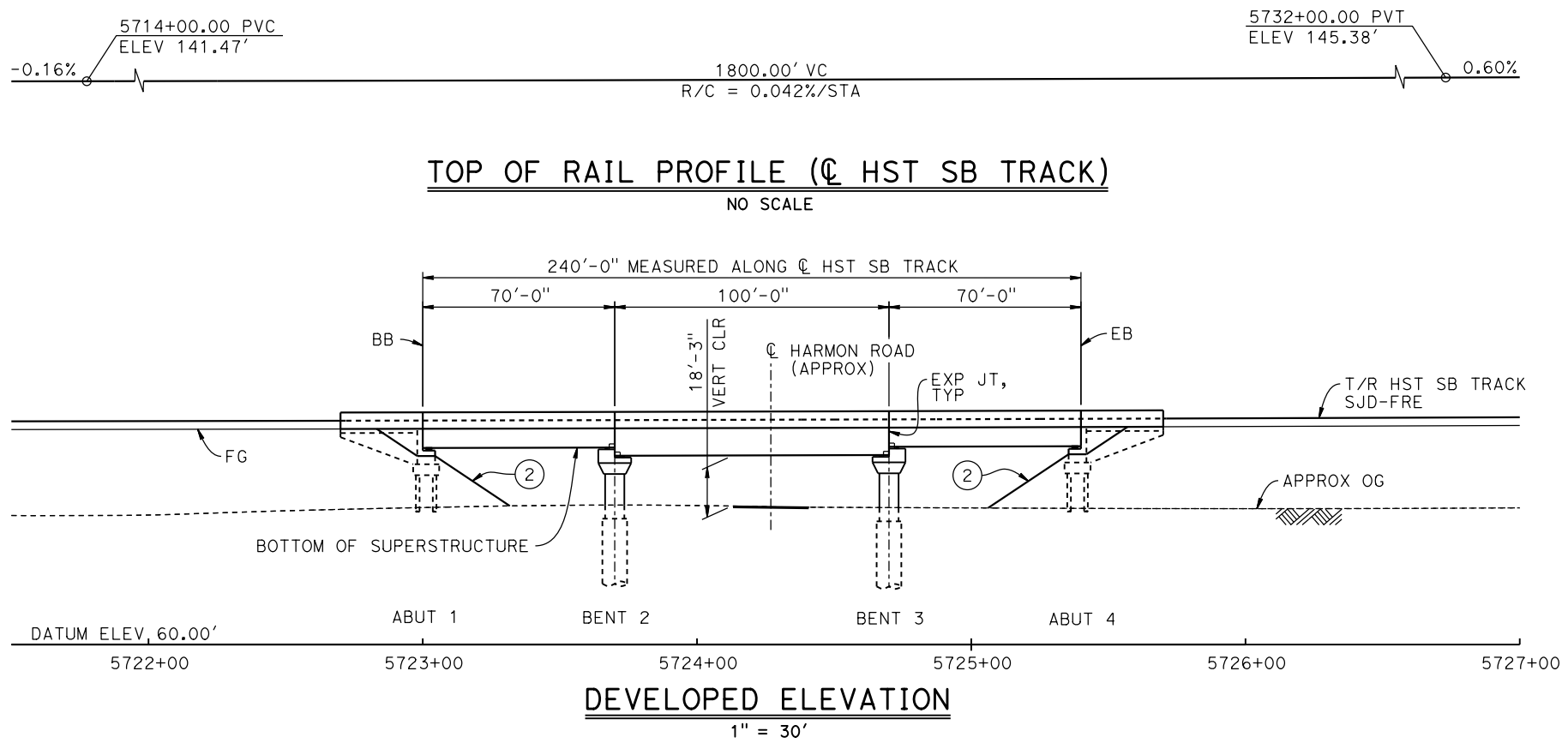
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
MARIPOSA SLOUGH BRIDGE

CONTRACT NO.
HSR08-05

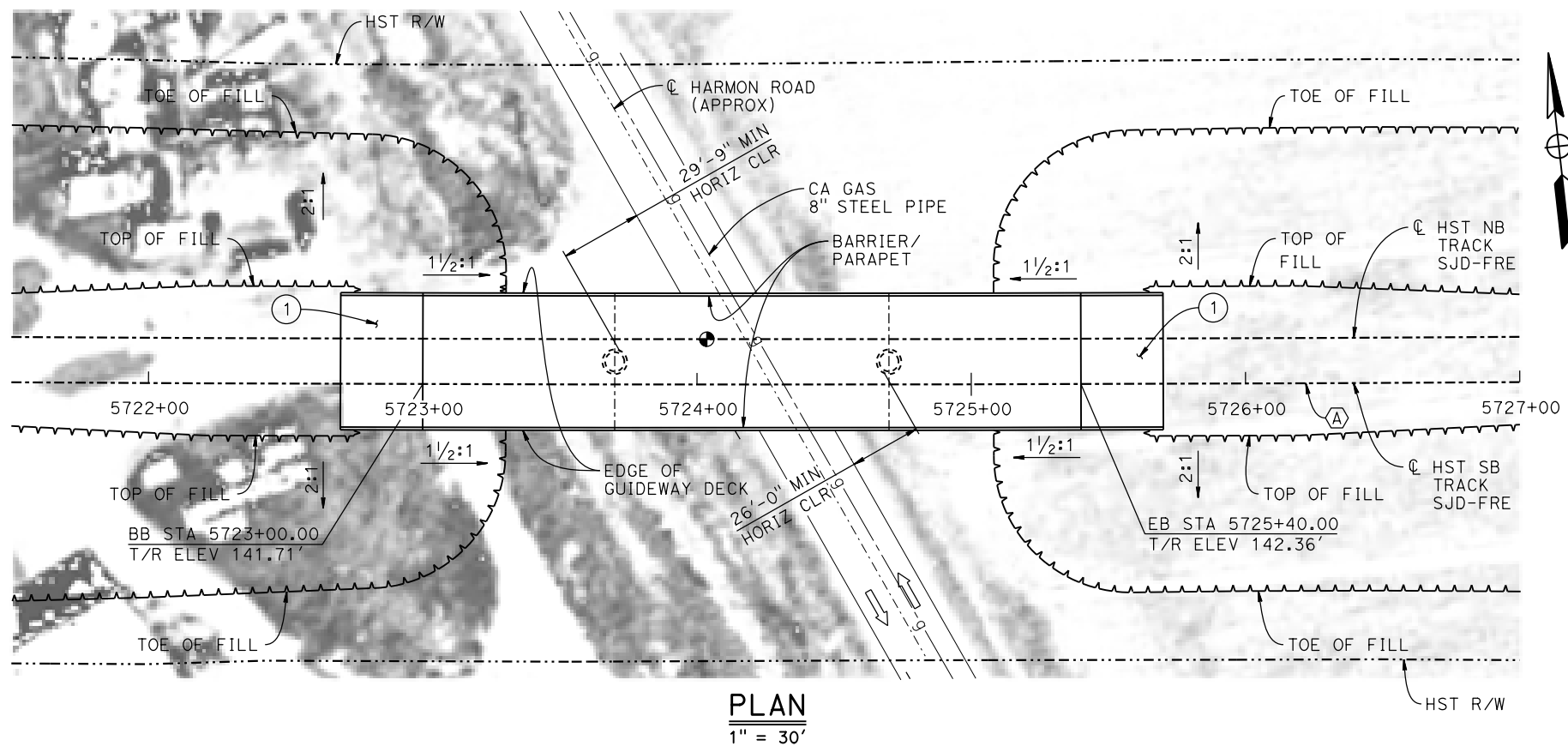
DRAWING NO.
ST-K1070-A

SCALE
AS SHOWN

SHEET NO.



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



LEGEND:

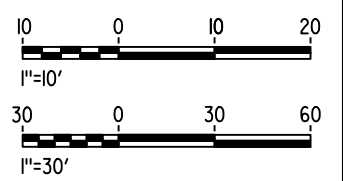
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

NOTES:

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

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)	
HARMON RD	5724+27	32'x16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



06-FEB-2015 16:06 MF-ST-K1075-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

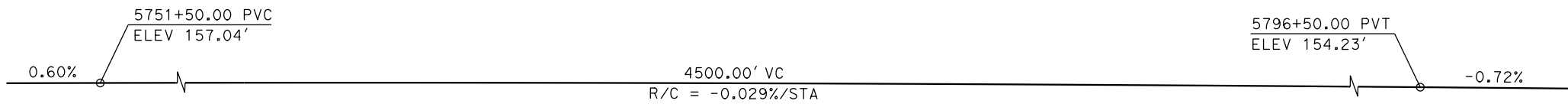
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

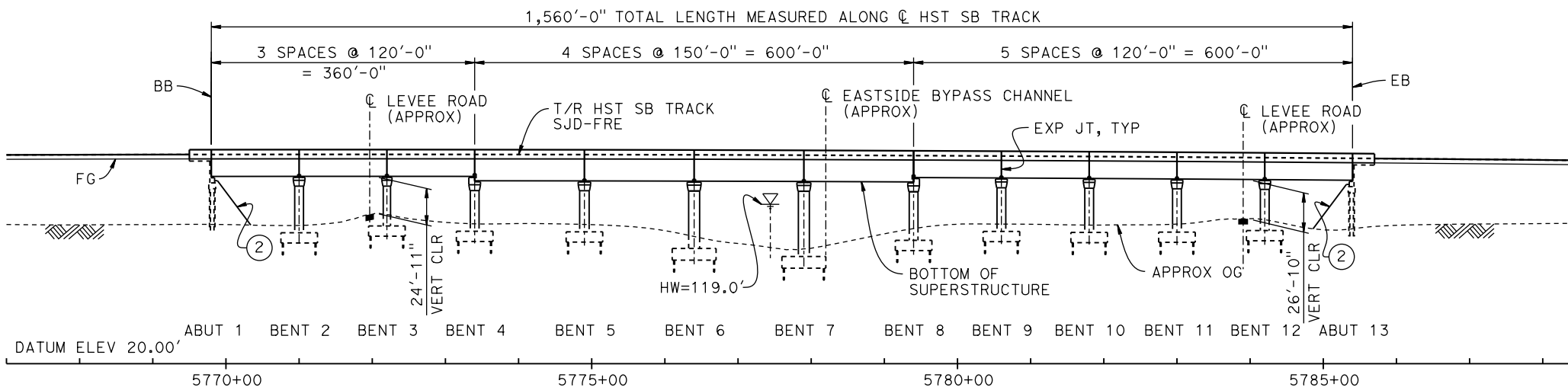


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 HARMON ROAD UNDERPASS

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



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



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

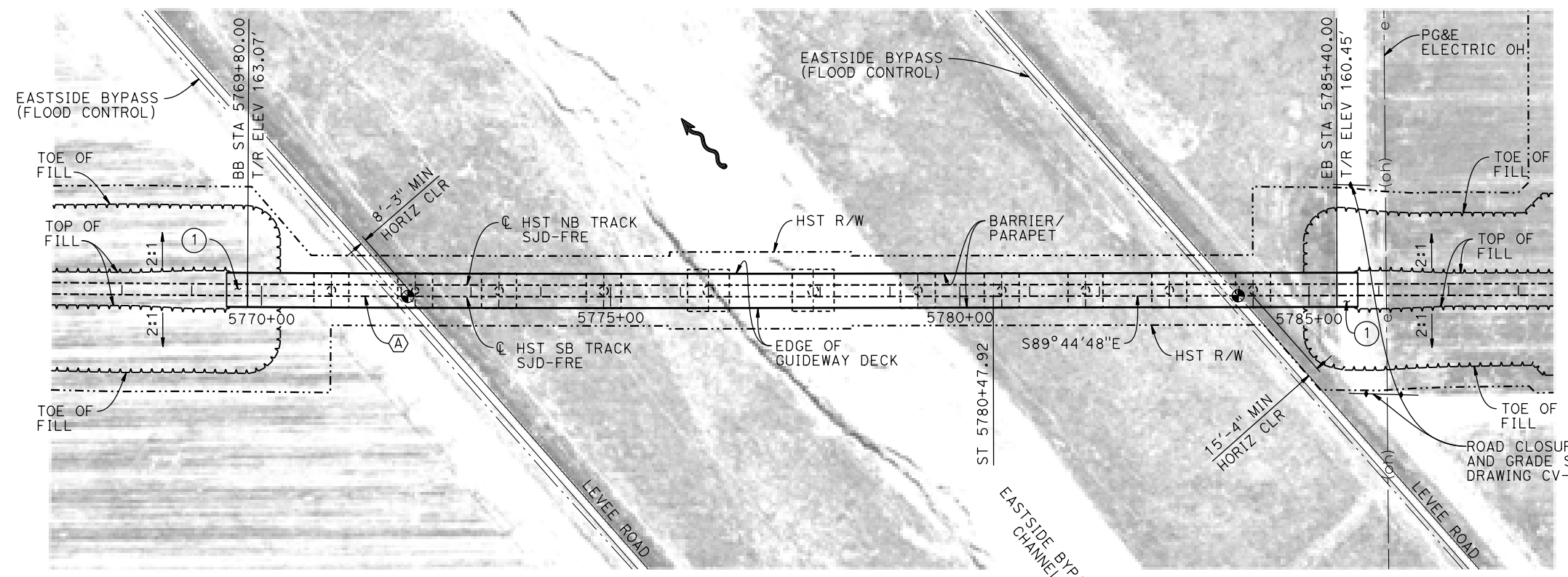
- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - INDICATES DIRECTION OF FLOW
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1 1/2 H:1 V)

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

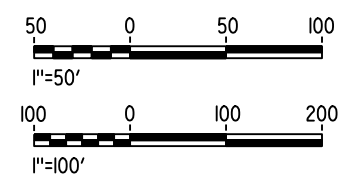
TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. — 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)	
LEVEE ROAD	5772+00	20'X16.5'	-
LEVEE ROAD	5783+90	20'X16.5'	-
3. <u>X</u> 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-A.
 - 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-A.



PLAN
1" = 100'



16-MAR-2016 8:32 MF-ST-K1080-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)

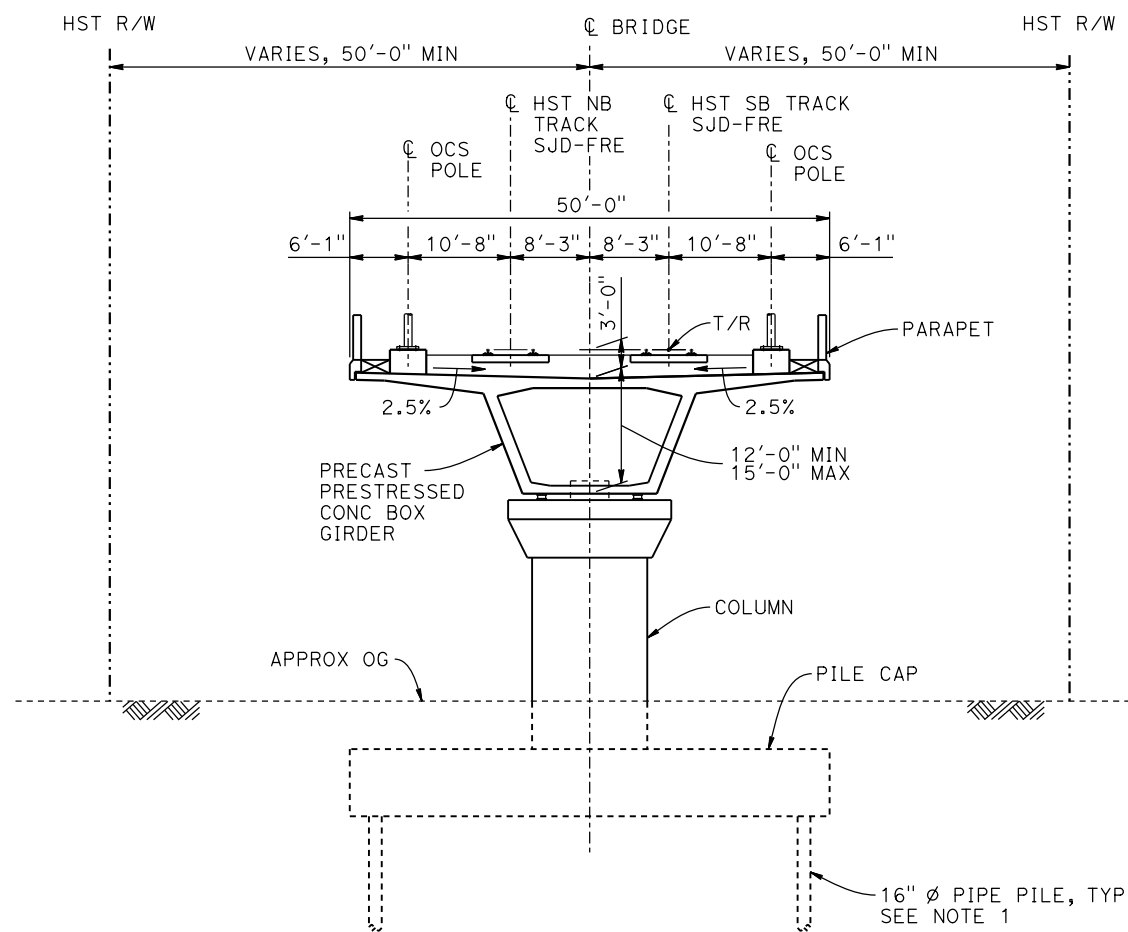
AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 1 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1080-A

SCALE
AS SHOWN

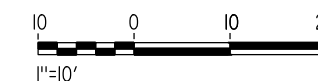
SHEET NO.



TYPICAL SECTION
1" = 10'

BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2	12'-0" ϕ
3	10'-0" ϕ
4	12'-0" ϕ
5	13'-0" ϕ
6 - 7	15'-0" ϕ
8 - 12	12'-0" ϕ

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



06-FEB-2015 15:51:21 MF-ST-K3080-A.dgn

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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)

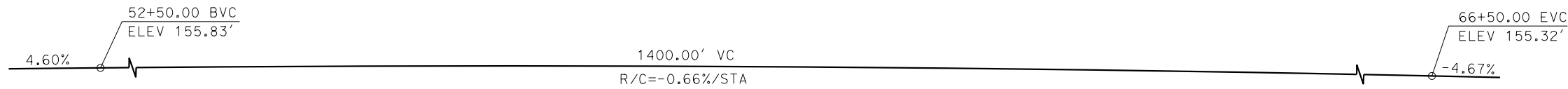
AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 2 OF 2

CONTRACT NO.
HSR08-05

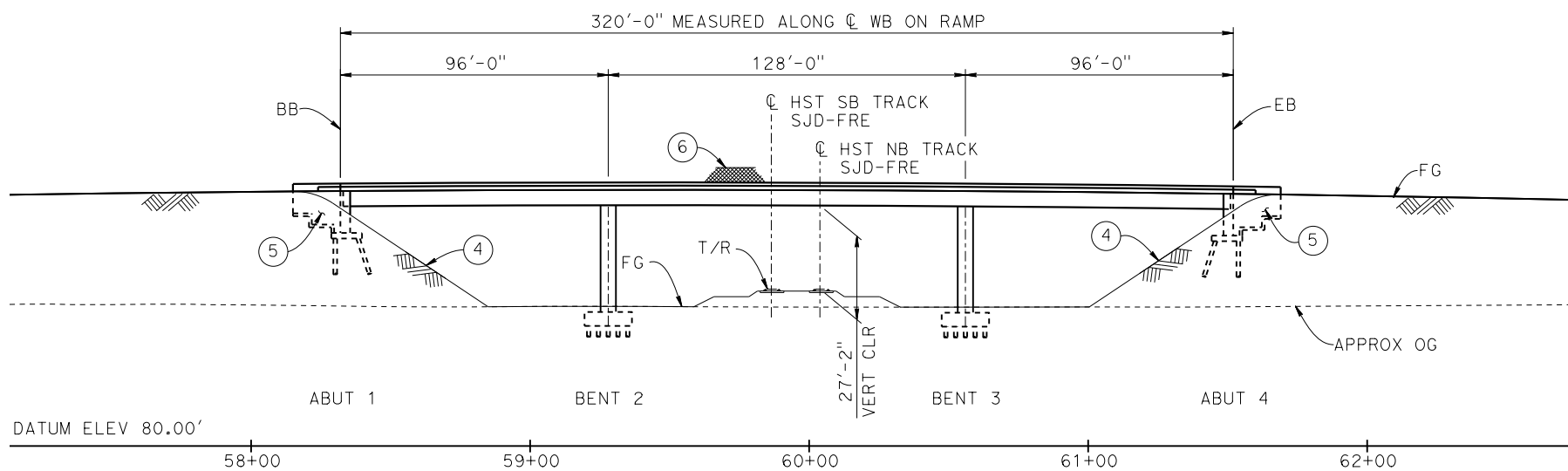
DRAWING NO.
ST-K3080-A

SCALE
AS SHOWN

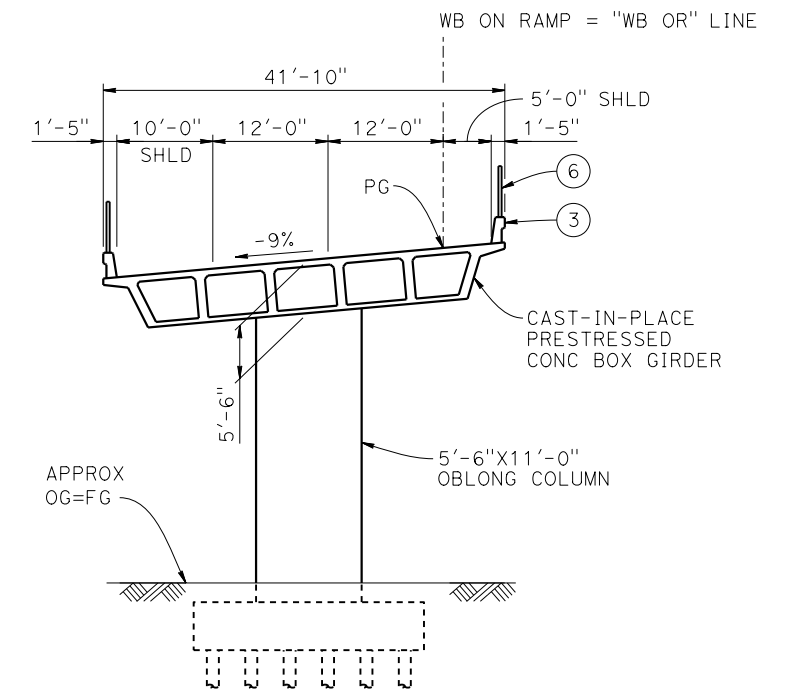
SHEET NO.



PROFILE GRADE
NO SCALE



DEVELOPED ELEVATION



TYPICAL SECTION
1" = 10'

LEGEND:

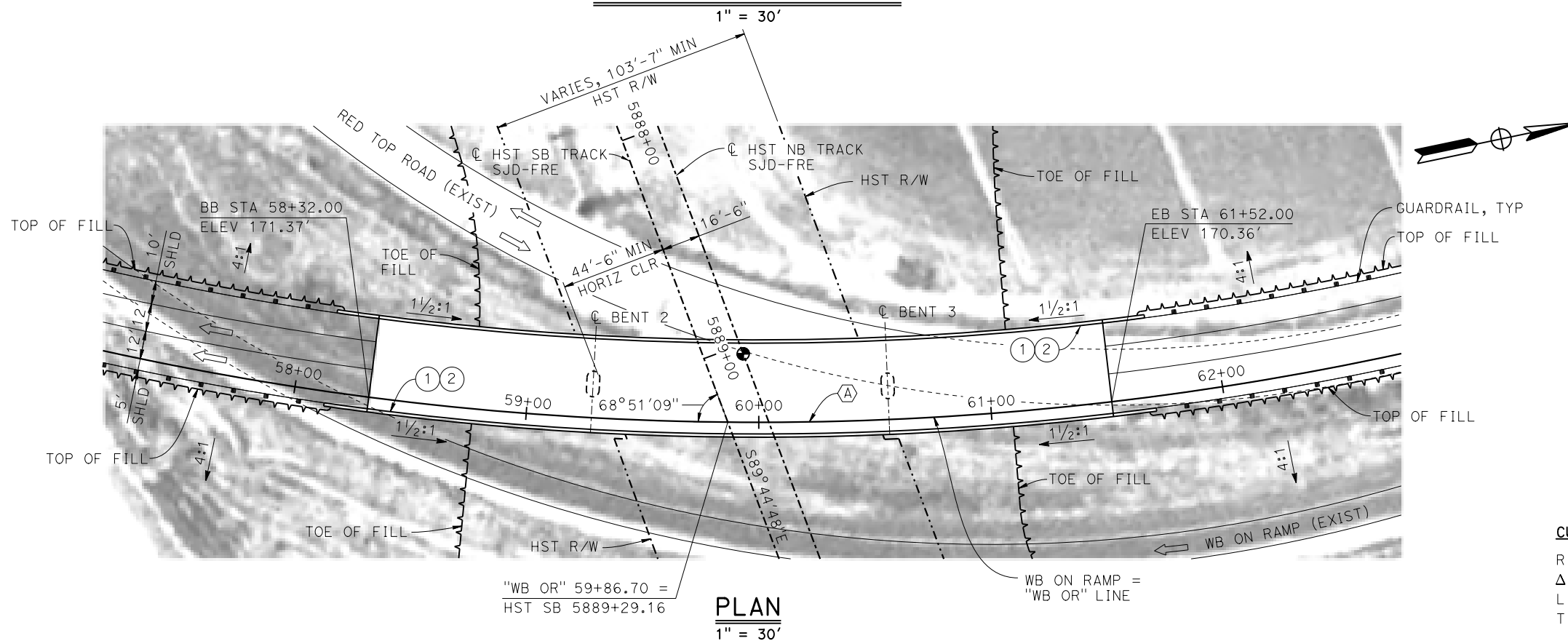
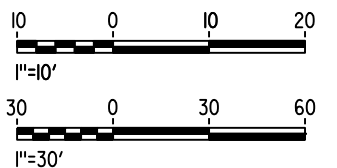
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇒ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "WB ON RAMP OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 742 MOD
- ④ SLOPE PAVING (1 1/2 H:1 V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

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-S1100-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-A.

CURVE NO. 102-03 (A)

R = 1,305.00'
 $\Delta = 62^\circ 21' 49''$
 L = 1,420.43'
 T = 789.77'



PLAN
1" = 30'

20-MAY-2015 7:53 MF-ST-K1100-A.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



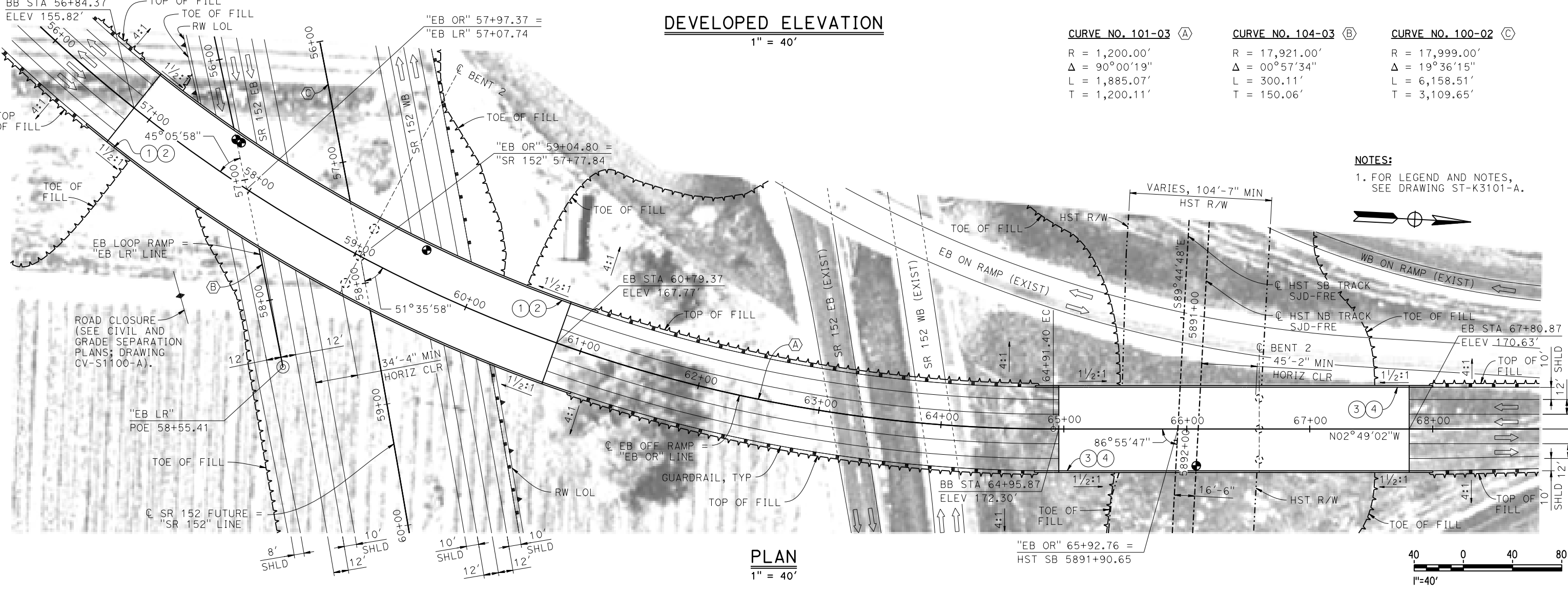
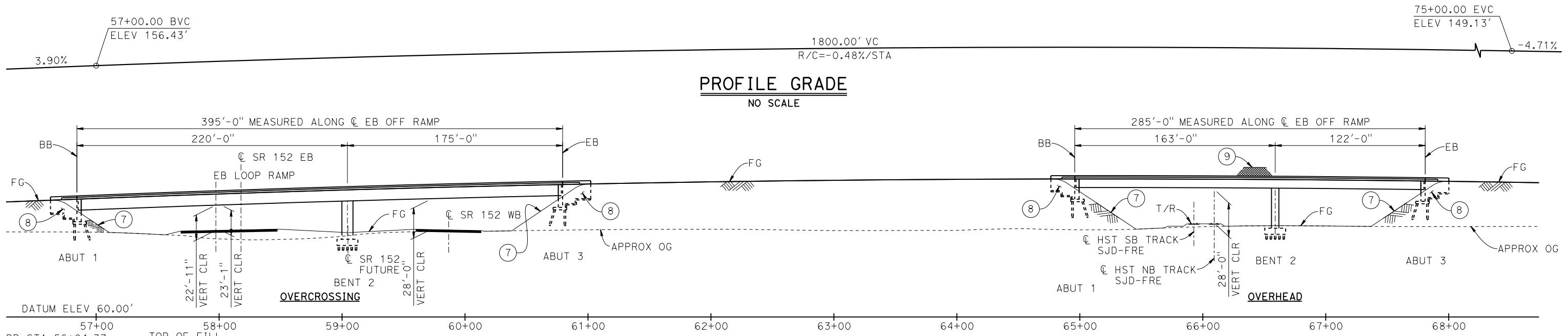
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 SR 59 / SR 152 INTERCHANGE - 1 OF 4

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1100-A

SCALE
AS SHOWN

SHEET NO.



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'
Δ = 90°00'19"	Δ = 00°57'34"	Δ = 19°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-A.

20-MAY-2015 6:17 MF-ST-K1101-A.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

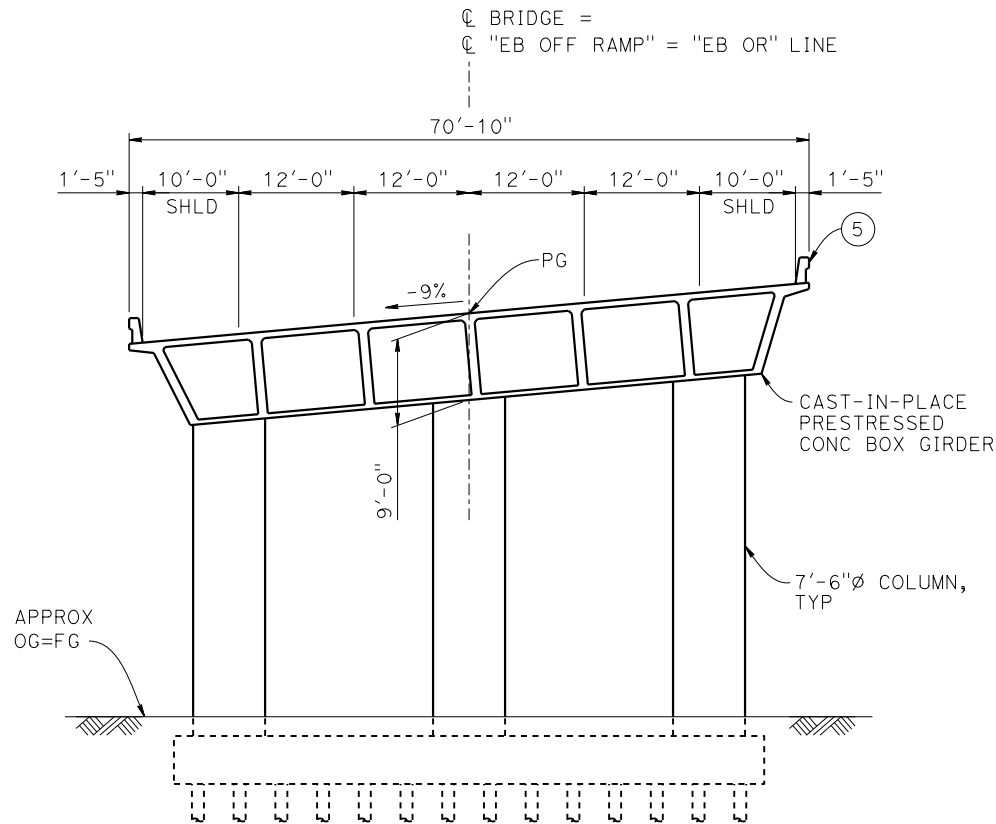
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

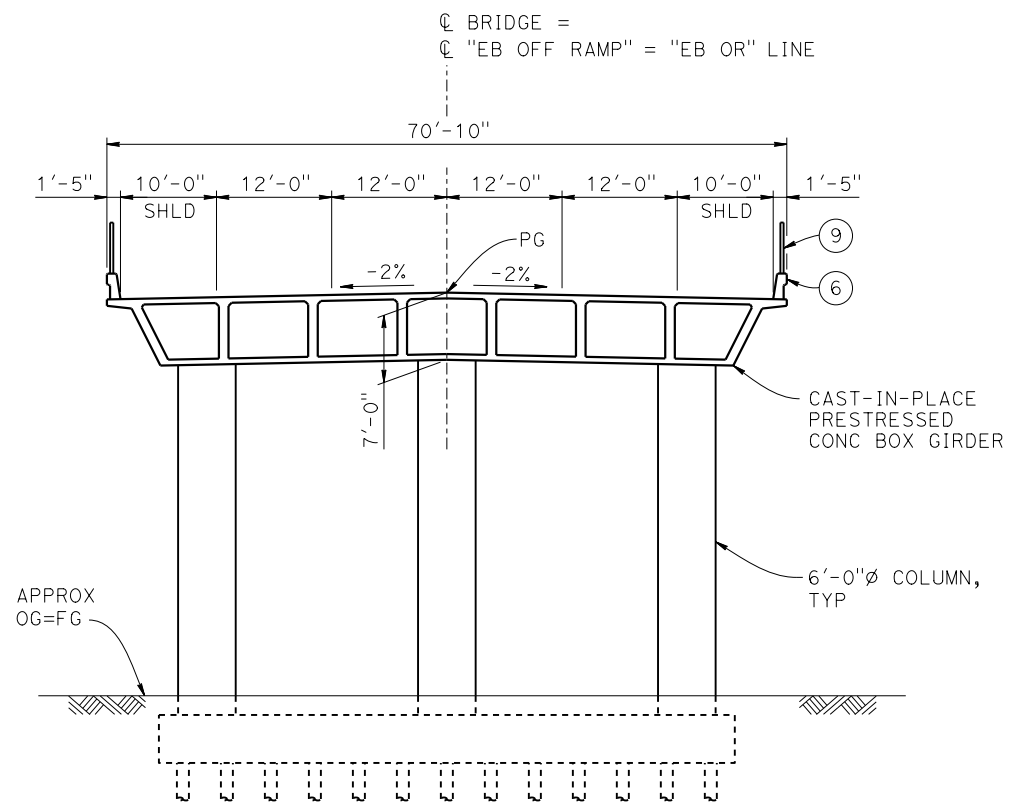


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 SR 59 / SR 152 INTERCHANGE - 2 OF 4

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



TYPICAL SECTION AT OVERCROSSING
1" = 10'



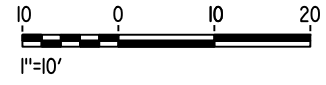
TYPICAL SECTION AT OVERHEAD
1" = 10'

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:

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-S1100-A.
3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-A.
4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-A.



20-MAY-2015 01:58 MF-ST-K3101-A .dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

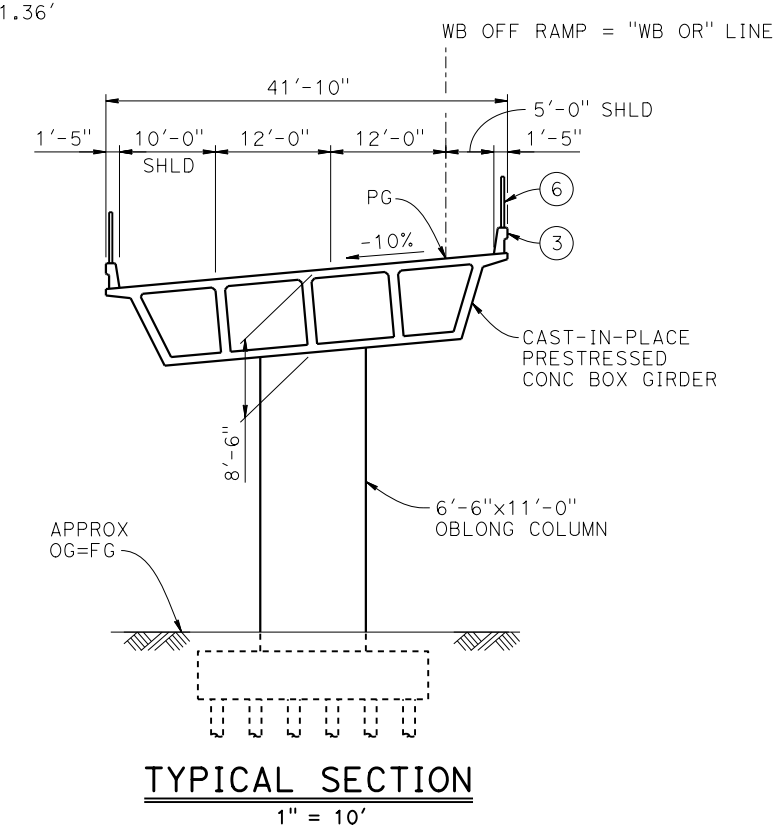
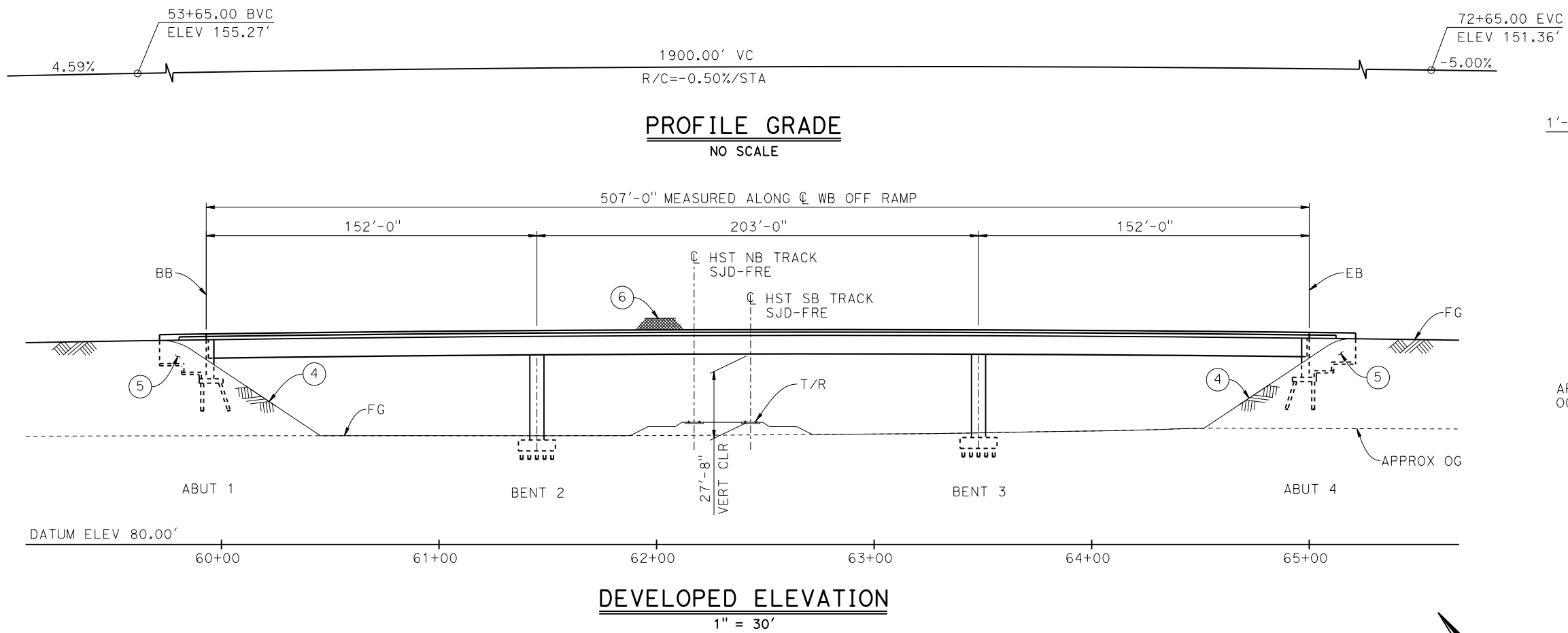
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

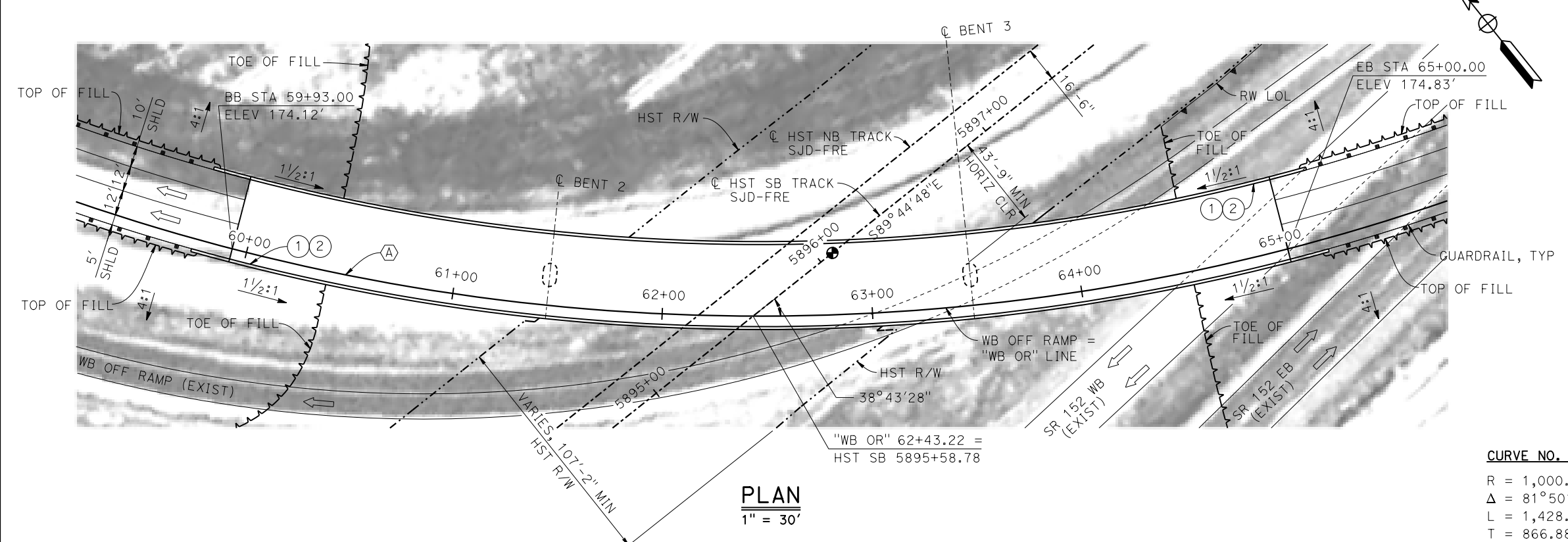


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
SR 59 / SR 152 INTERCHANGE - 3 OF 4

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



- 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:**
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-S1100-A.
 3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-A.
 4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-A.



MF-ST-K1102-A.dgn
20-MAY-2015 5:51:34
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

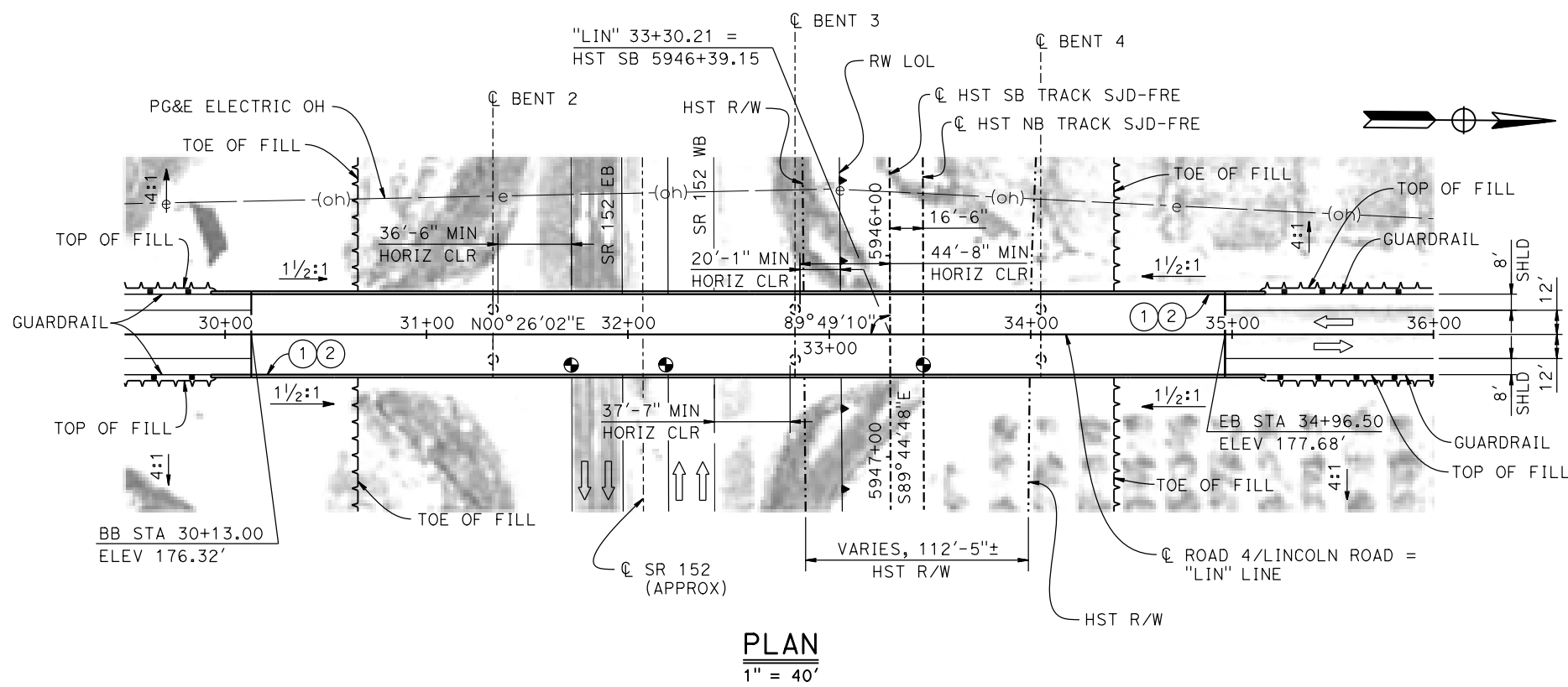
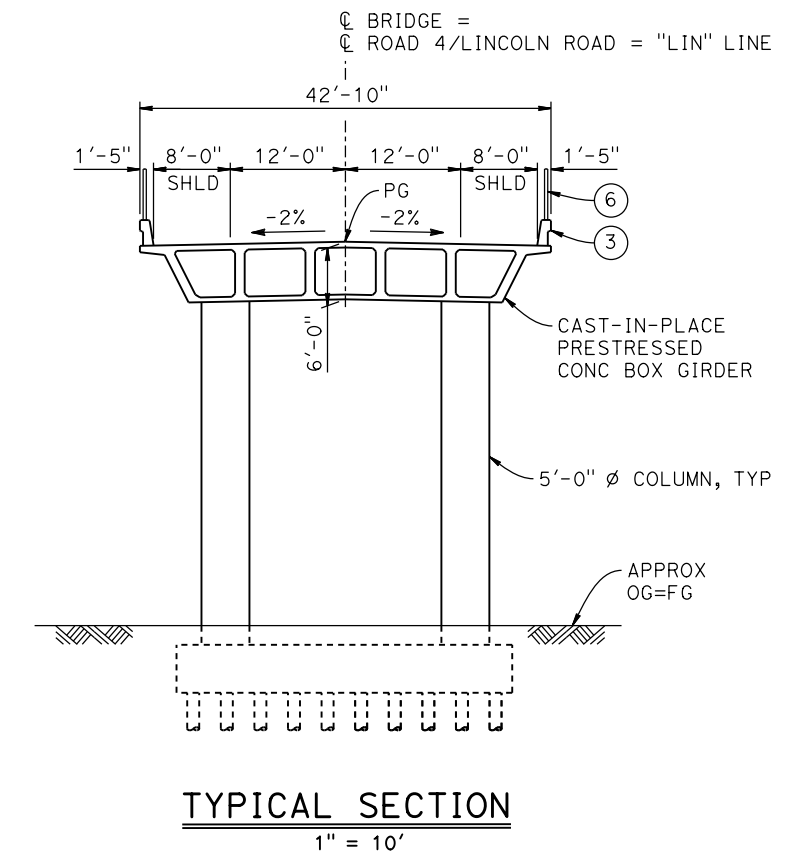
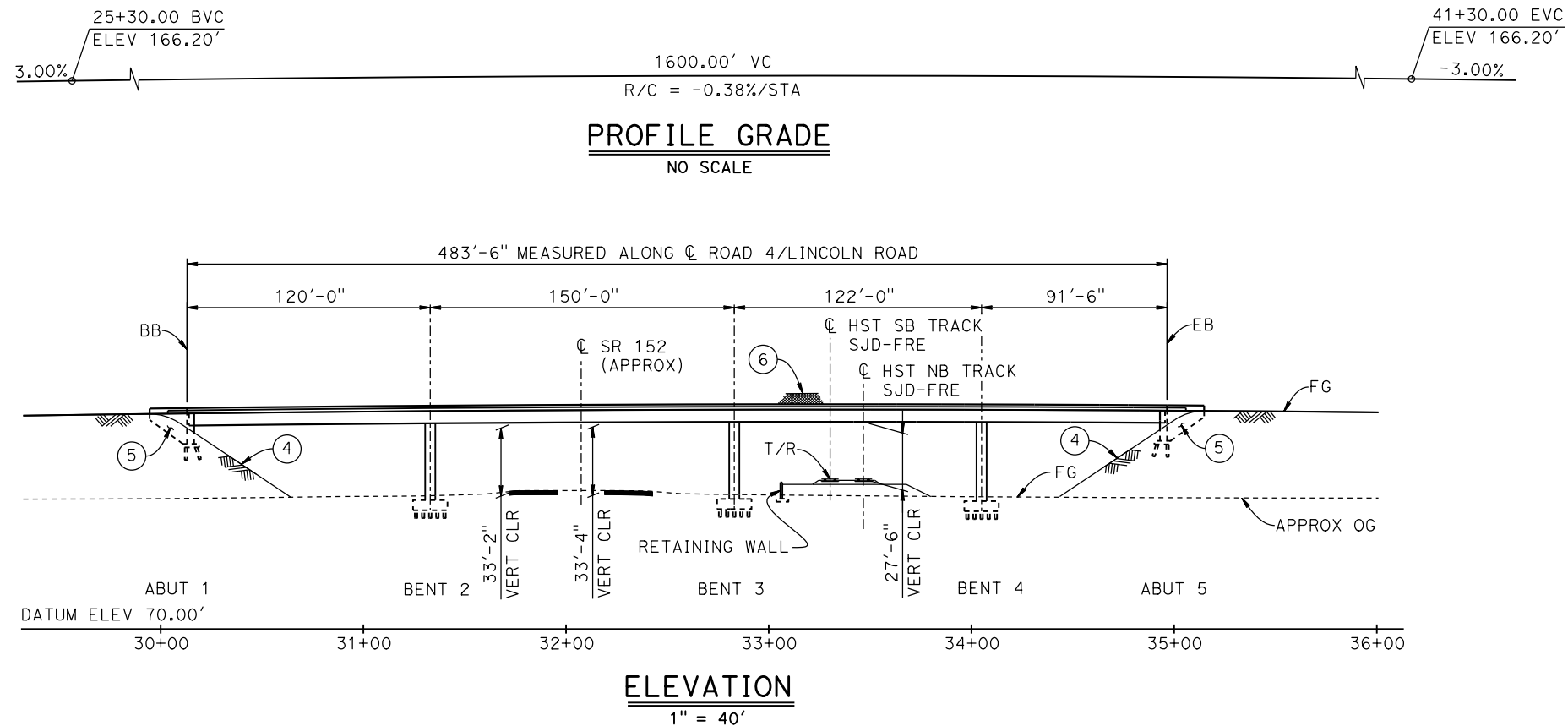
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
SR 59 / SR 152 INTERCHANGE - 4 OF 4

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1102-A

SCALE
AS SHOWN

SHEET NO.



TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC		FALSEWORK OPENING REQD (HORIZ x VERT)	
SR 152	31+83	40'x16.5'	E BND
SR 152	32+30	40'x16.5'	W BND

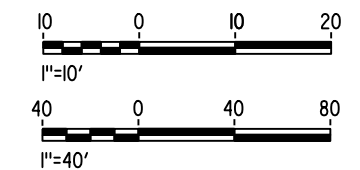
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "LINCOLN 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:

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-S1110-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS, DRAWING CV-S1110-A.
4. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS, DRAWING CV-S1110-A.



06-FEB-2015 16:06 MF-ST-K1110-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
D. TAFOYA

CHECKED BY
S. J. S.

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

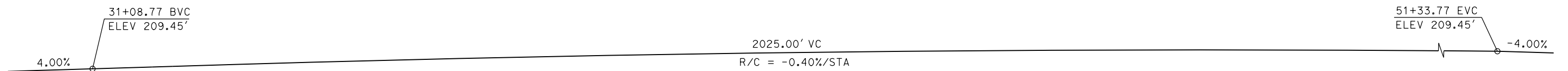
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
LINCOLN ROAD (ROAD 4) OVERHEAD

CONTRACT NO.
HSR08-05

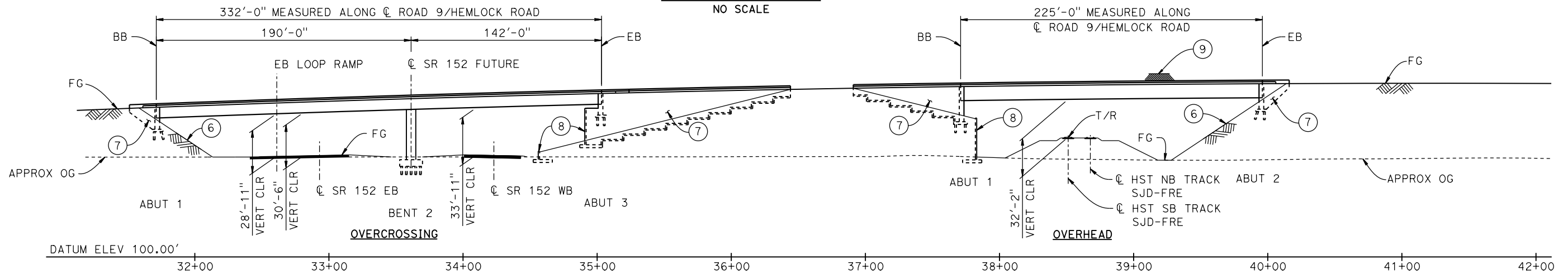
DRAWING NO.
ST-K1110-A

SCALE
AS SHOWN

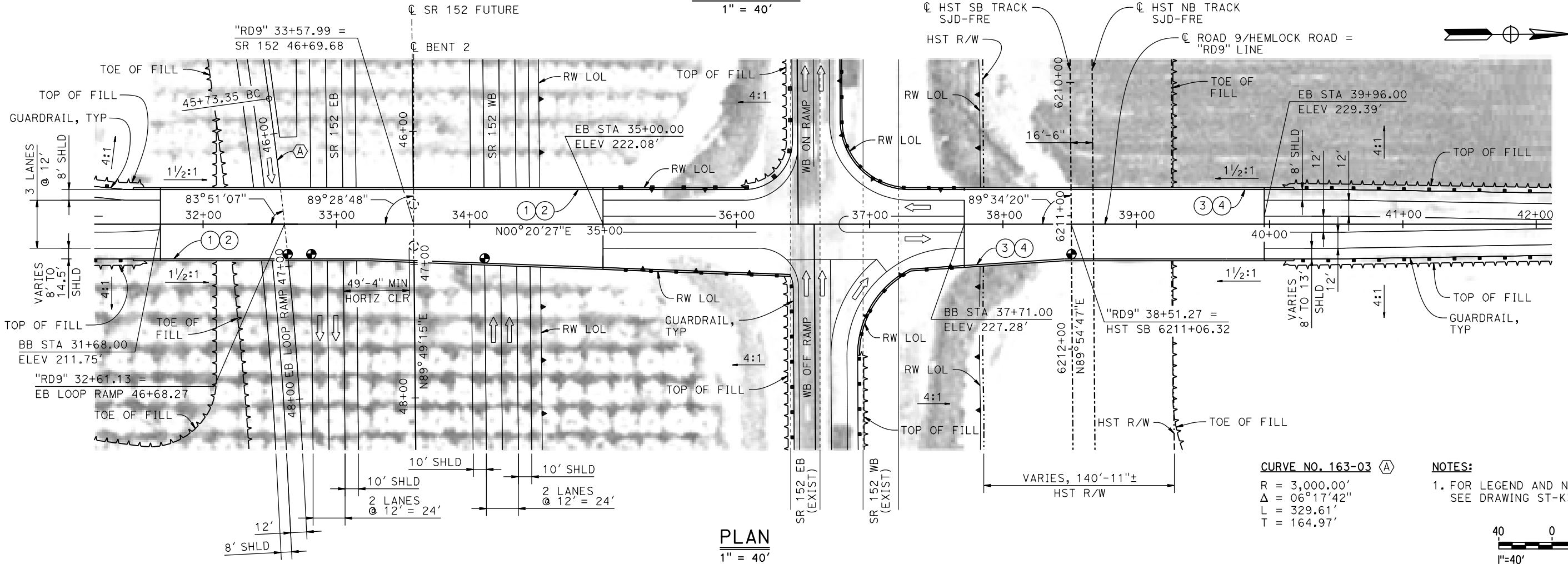
SHEET NO.



PROFILE GRADE
NO SCALE



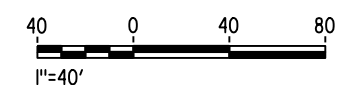
ELEVATION
1" = 40'



PLAN
1" = 40'

CURVE NO. 163-03 (A)
 R = 3,000.00'
 Δ = 06°17'42"
 L = 329.61'
 T = 164.97'

NOTES:
 1. FOR LEGEND AND NOTES, SEE DRAWING ST-K3160-A.



19-MAY-2015 7:23 MF-ST-K1160-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FARES
 DRAWN BY
S. HICKS
 CHECKED BY
O. EDEWOR
 IN CHARGE
C. LEMLEY
 DATE
05/08/2015

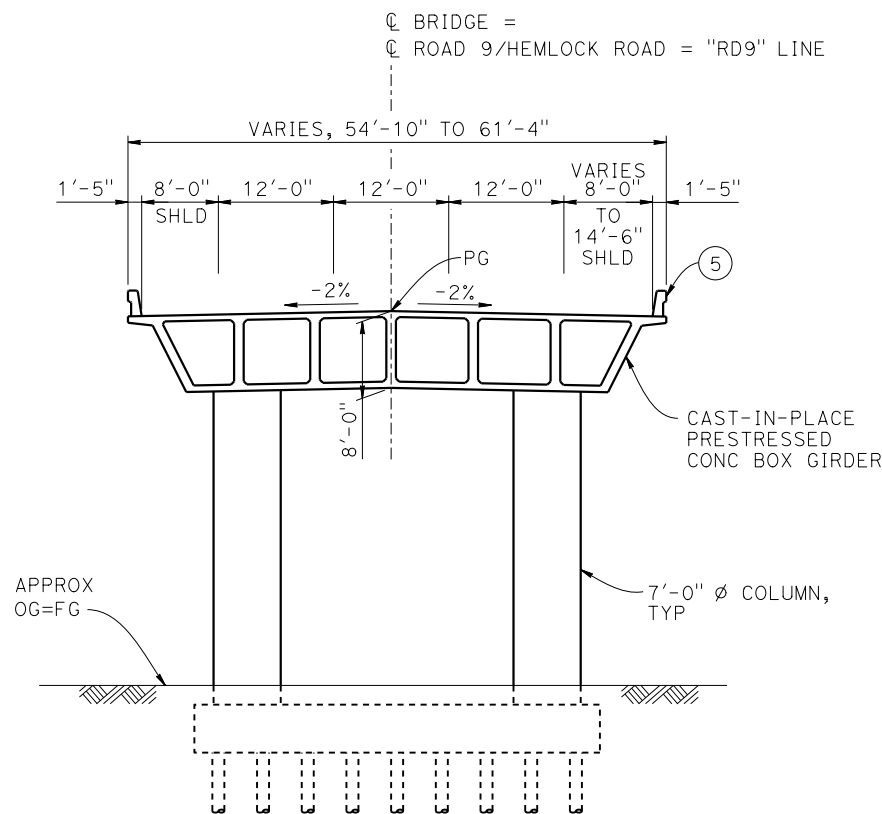
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

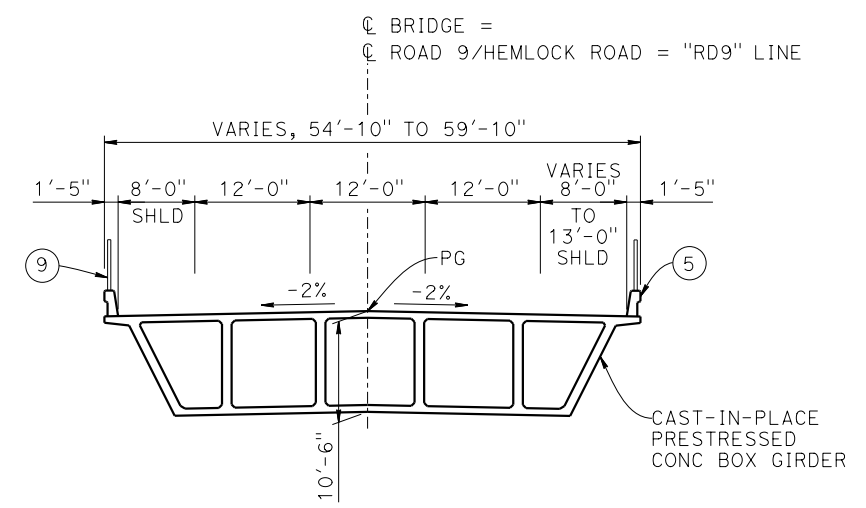


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 HEMLOCK ROAD (ROAD 9) INTERCHANGE - 1 OF 2

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



TYPICAL SECTION AT OVERCROSSING
1" = 10'



TYPICAL SECTION AT OVERHEAD
1" = 10'

- LEGEND:**
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ⇒ INDICATES DIRECTION OF TRAFFIC
 - ① PAINT "HEMLOCK ROAD OVERCROSSING"
 - ② PAINT "BRIDGE NO. XX-XXXX"
 - ③ PAINT "HEMLOCK ROAD 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

- 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-S1160-A.
 3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-A.
 4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-A.



12-MAY-2015 11:28 MF-ST-K3160-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FARES
DRAWN BY
S. HICKS
CHECKED BY
O. EDEWOR
IN CHARGE
C. LEMLEY
DATE
05/08/2015

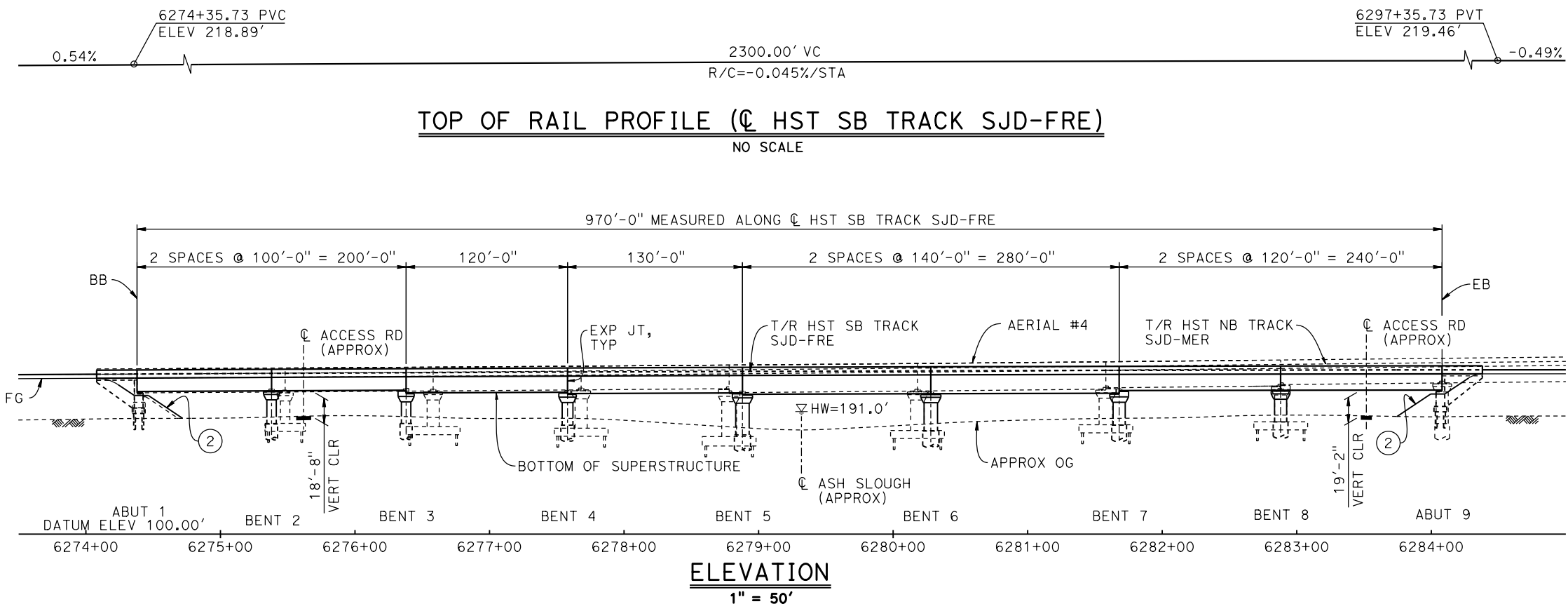
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
HEMLOCK ROAD (ROAD 9) INTERCHANGE - 2 OF 2

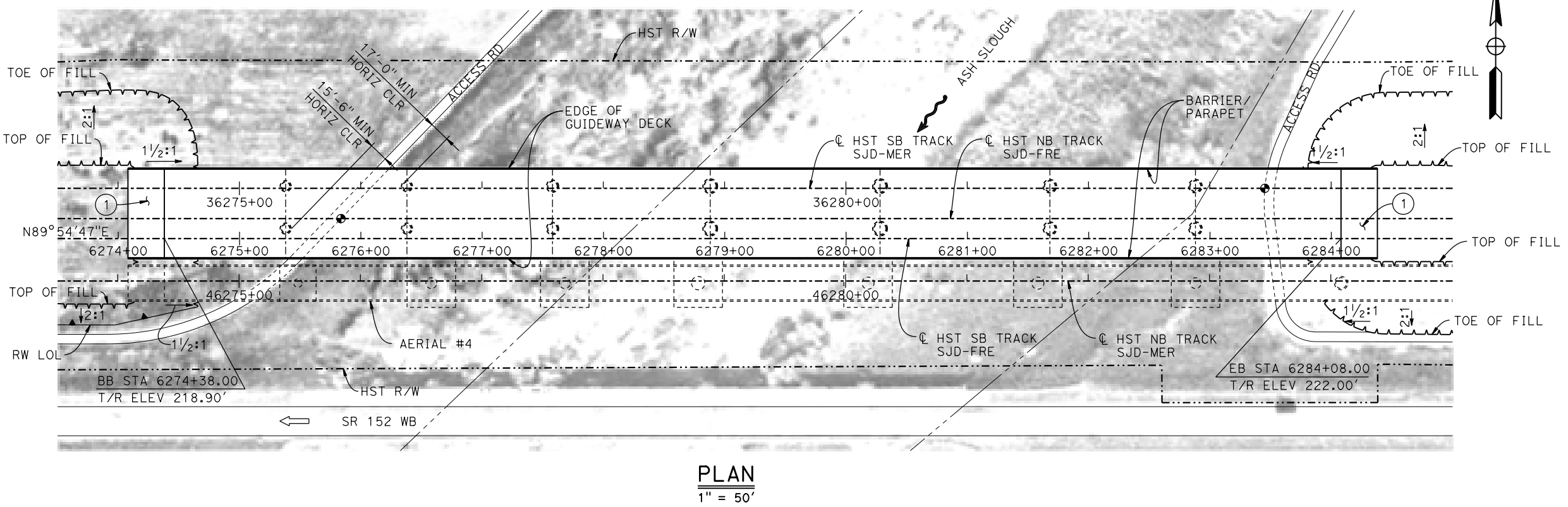
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K3160-A
SCALE
AS SHOWN
SHEET NO.



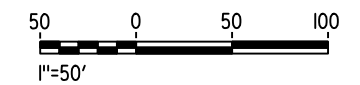
TEMPORARY TRAFFIC OPENINGS

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 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 1/2 H:1 V)



- NOTES:**
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - FOR TYPICAL SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3170-A.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1170-A.
 - FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1170-A.
 - FOR AERIAL #4 - NORTHBOUND OVER HST MAINLINE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1620-A TO ST-K1623-A, ST-K3620-A AND ST-K3621-A.



06-FEB-2015 15:47 MF-ST-K1170-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. FARES

DRAWN BY
J. KIDWELL

CHECKED BY
S. J. S.

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

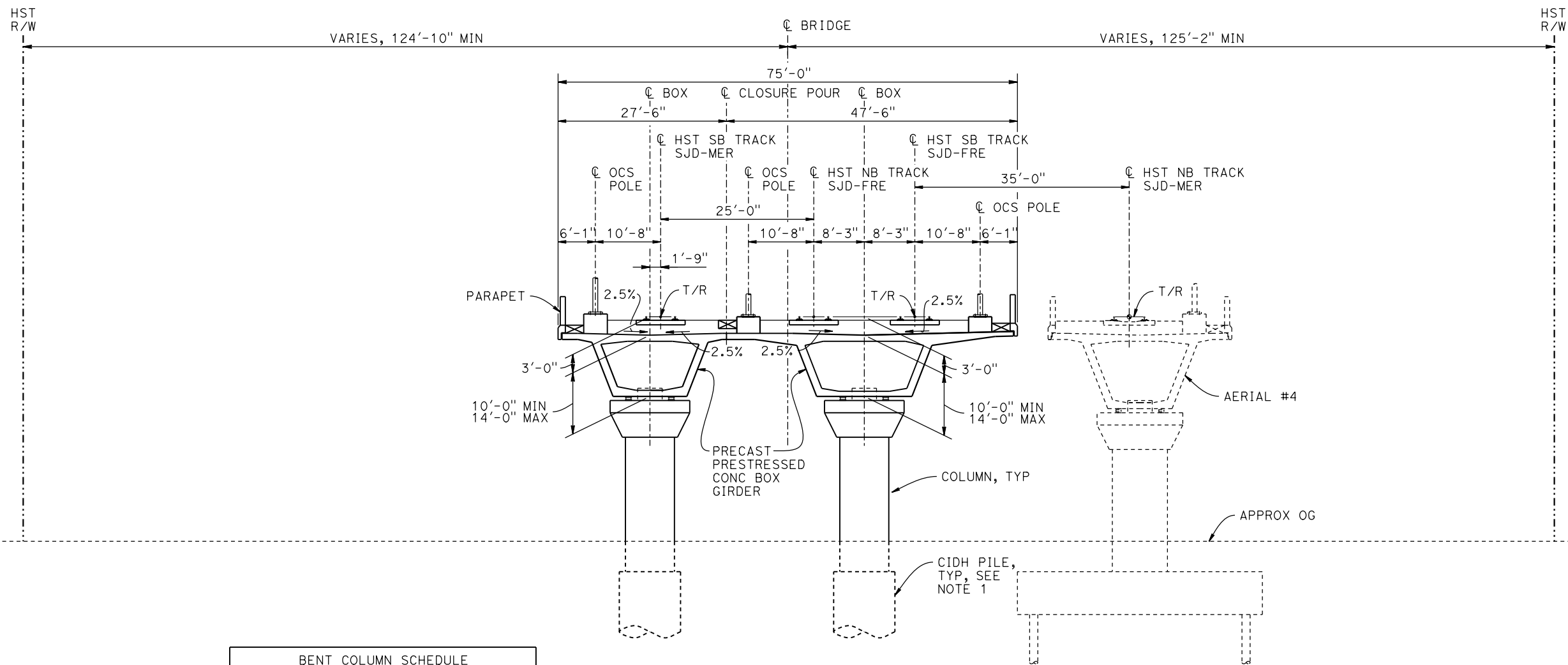
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ASH SLOUGH BRIDGE - 1 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1170-A

SCALE
AS SHOWN

SHEET NO.



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

TYPICAL SECTION
1" = 10'

NOTE:
1. DRILLED SHAFT LENGTHS TO BE DETERMINED.



06-FEB-2015 15:47 MF-ST-K3170-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

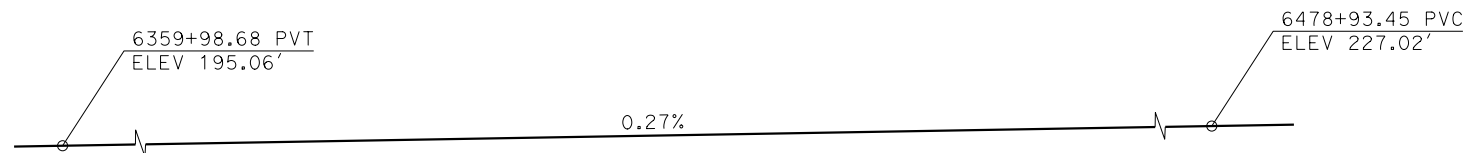
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

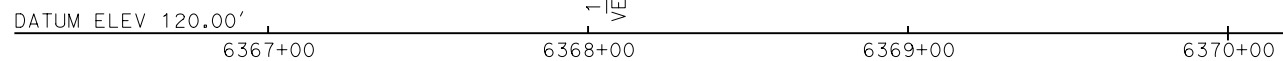
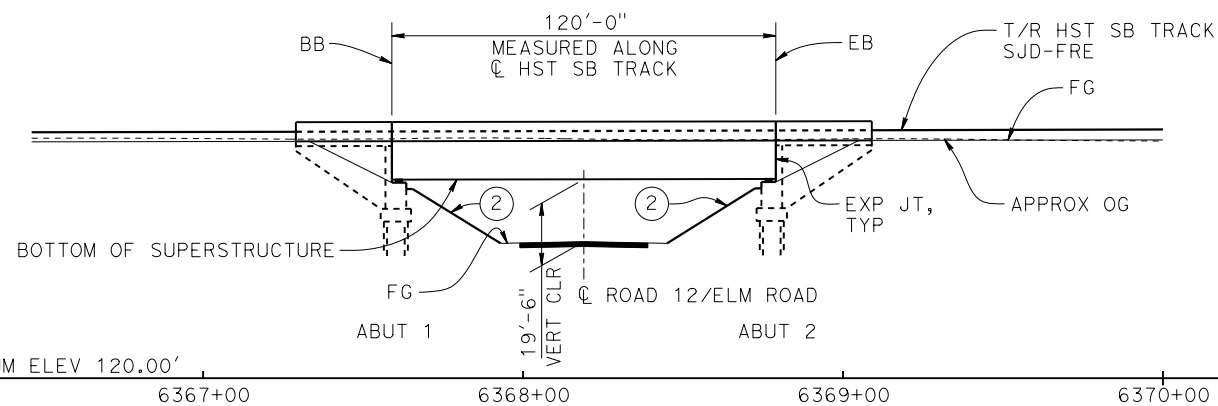


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
ASH SLOUGH BRIDGE - 2 OF 2

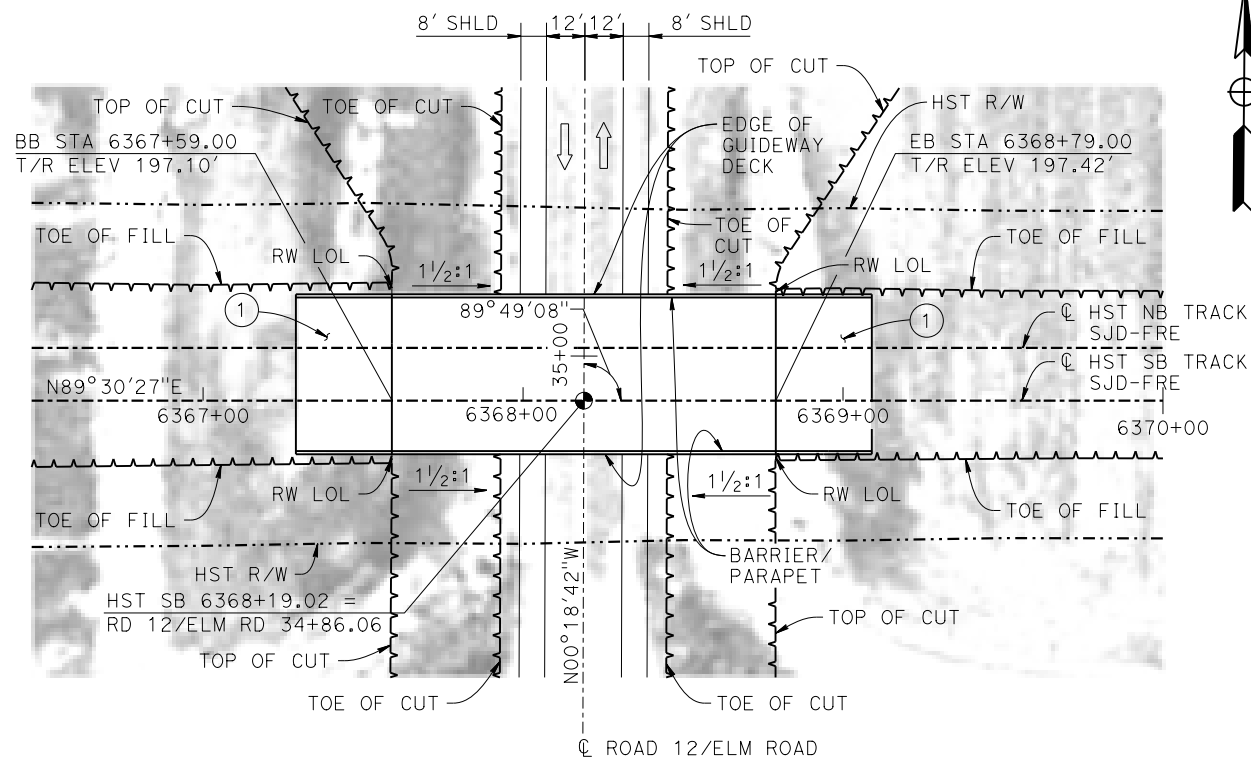
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K3170-A
SCALE
AS SHOWN
SHEET NO.



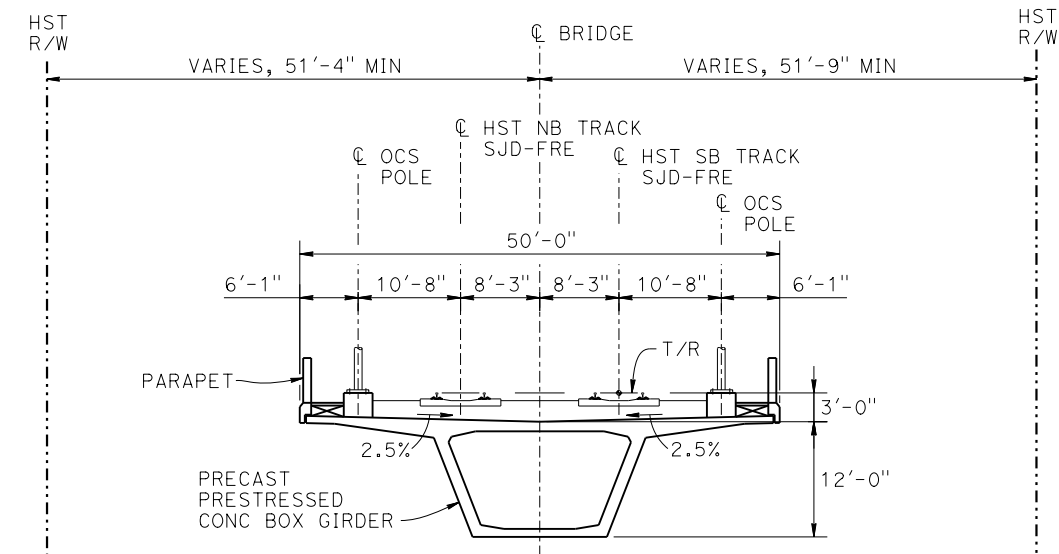
TOP OF RAIL PROFILE (CL HST SB TRACK)
NO SCALE



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:

STREET OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ROAD 12/ELM ROAD	6368+19	32'x16.5'	2-WAY

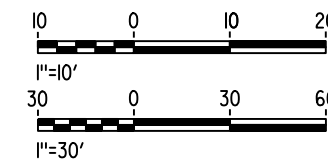
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

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-S1190-A.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1190-A.

LEGEND:

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



10-MAR-2016 5:37 MF-ST-K1190-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

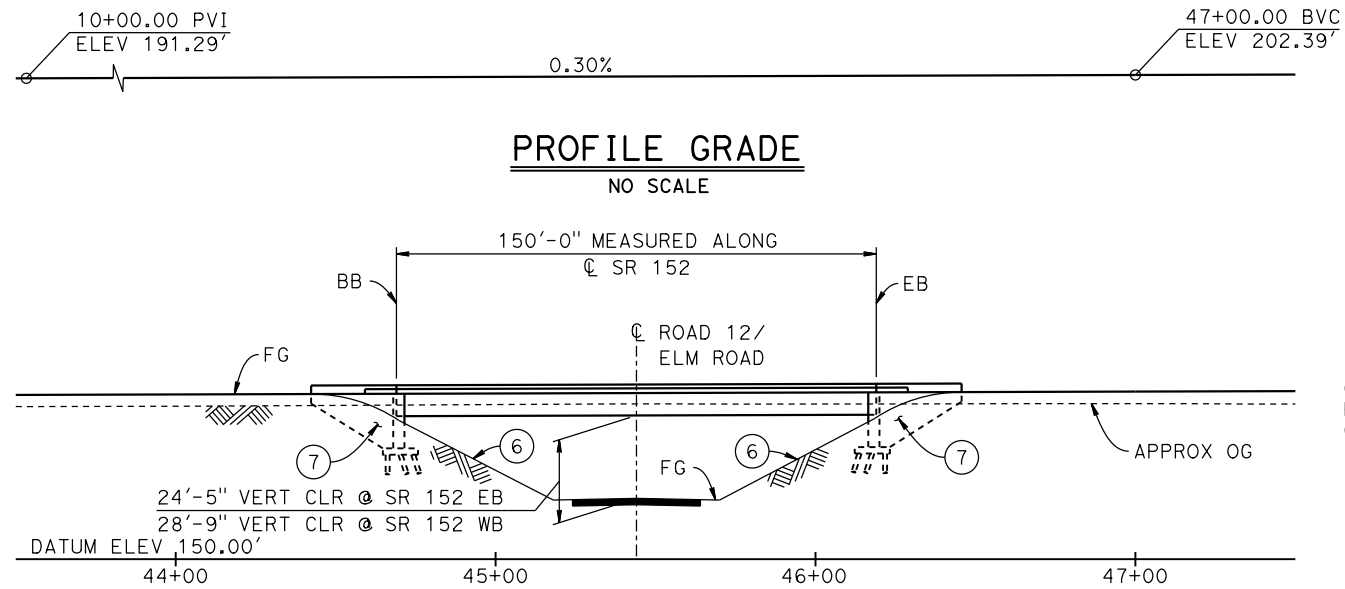
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



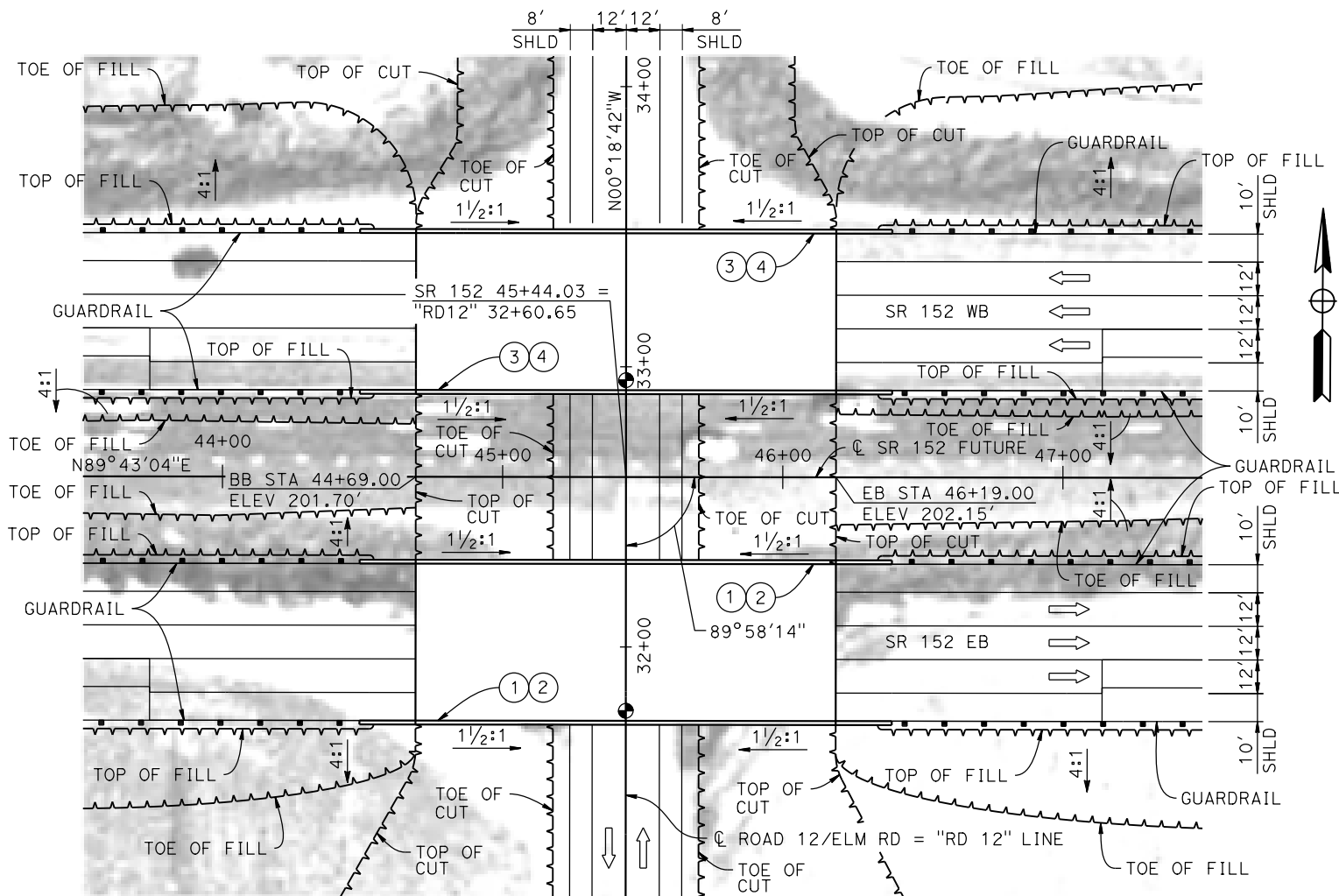
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ELM ROAD (ROAD 12) UNDERPASS

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



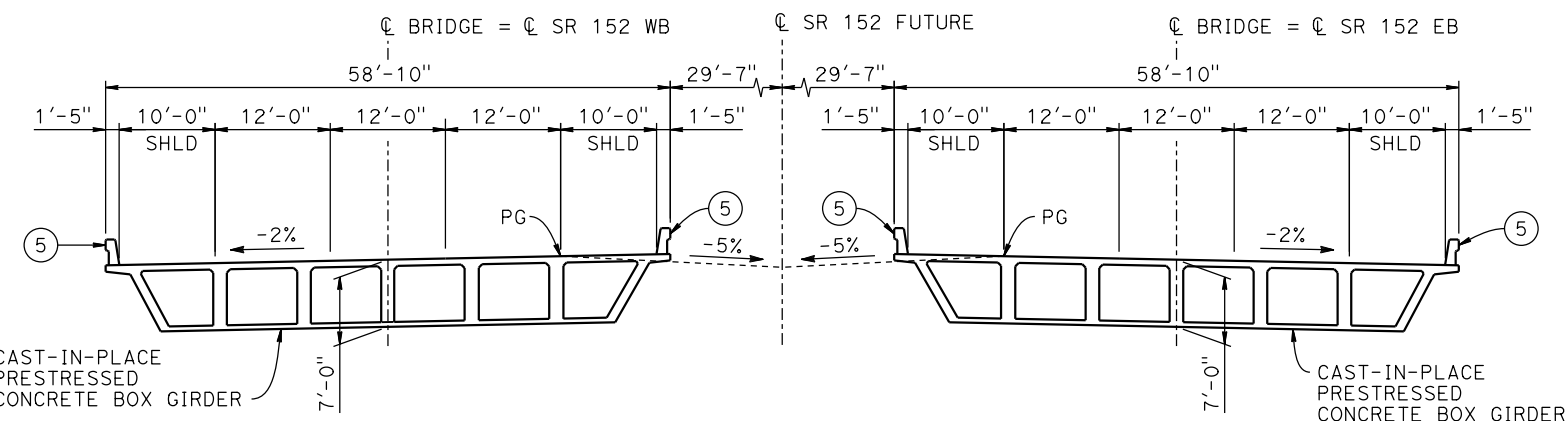
ELEVATION

1"=30'



PLAN

1"=30'



TYPICAL SECTION

1" = 10'

TEMPORARY TRAFFIC OPENINGS

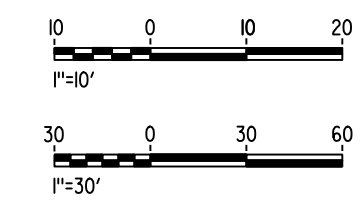
VEHICULAR TRAFFIC			
1. X TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. _ TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
ROAD 12/ELM ROAD 45+44	-	-	
3. _ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇨ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "SR 152 EB (ROAD 12) UNDERCROSSING"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ PAINT "SR 152 WB (ROAD 12) UNDERCROSSING"
- ④ PAINT "BRIDGE NO. XX-XXXX"
- ⑤ CONCRETE BARRIER TYPE 732
- ⑥ SLOPE PAVING (1 1/2H:1V)
- ⑦ WINGWALL

NOTES:

1. ASSUME CLASS 140 PILES AT ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1190-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1190-A.



06-FEB-2015 16:07 MF-ST-K1195-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. KIDWELL

CHECKED BY
S. J. S.

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

SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE

GENERAL PLAN (SJD-FRE)

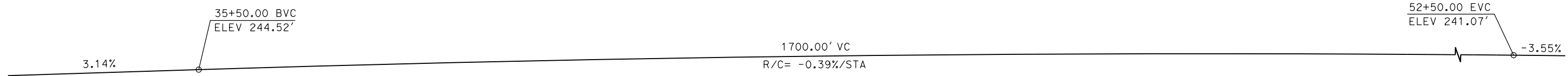
SR 152 (ROAD 12) UNDERCROSSING

CONTRACT NO.
HSR08-05

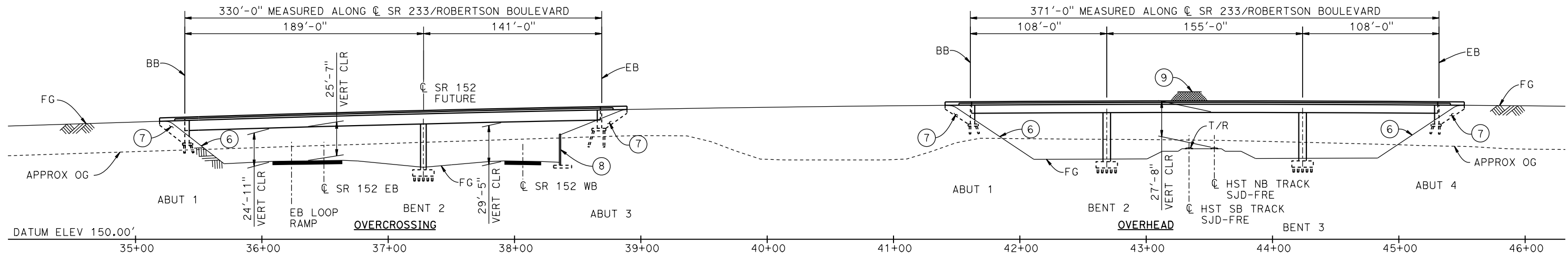
DRAWING NO.
ST-K1195-A

SCALE
AS SHOWN

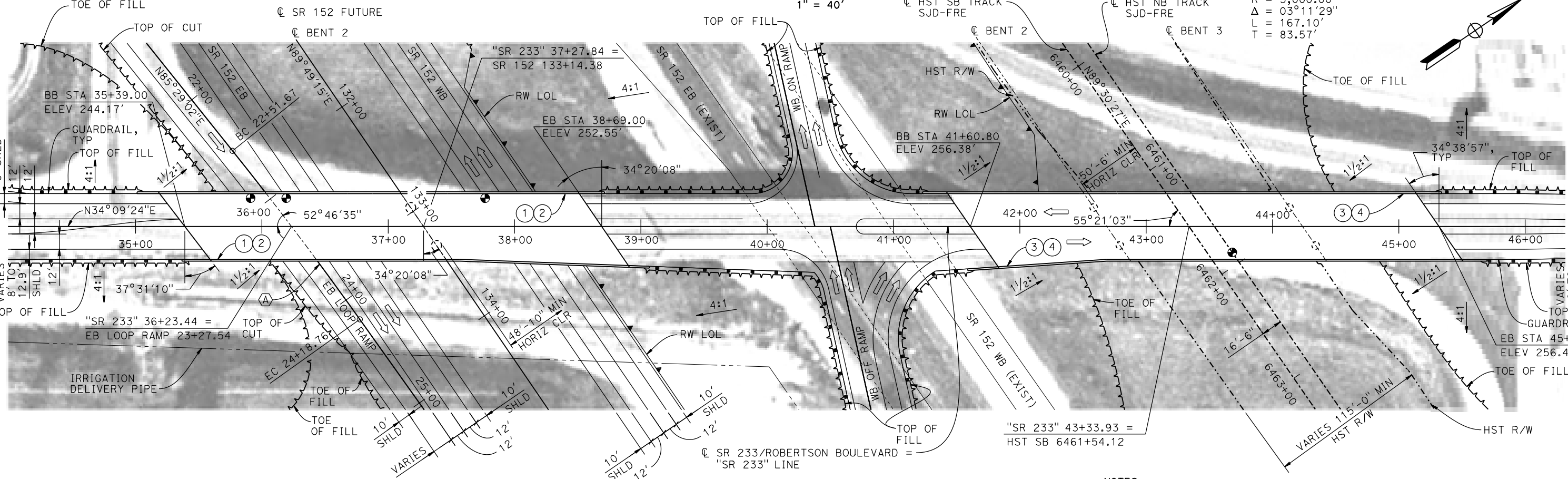
SHEET NO.



PROFILE GRADE
NO SCALE

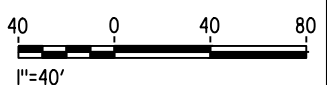


ELEVATION
1" = 40'



PLAN
1" = 40'

NOTES:
1. FOR LEGEND AND NOTES, SEE DRAWING ST-K3210-A.



19-MAY-2015 7:34 MF-ST-K1210-A.dgn

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

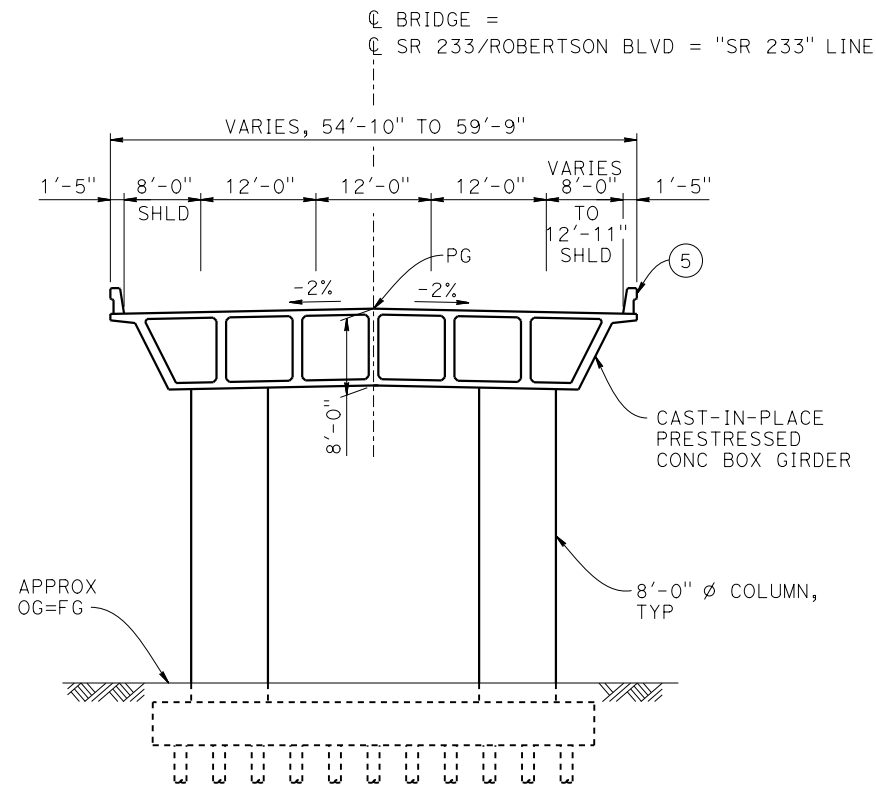
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

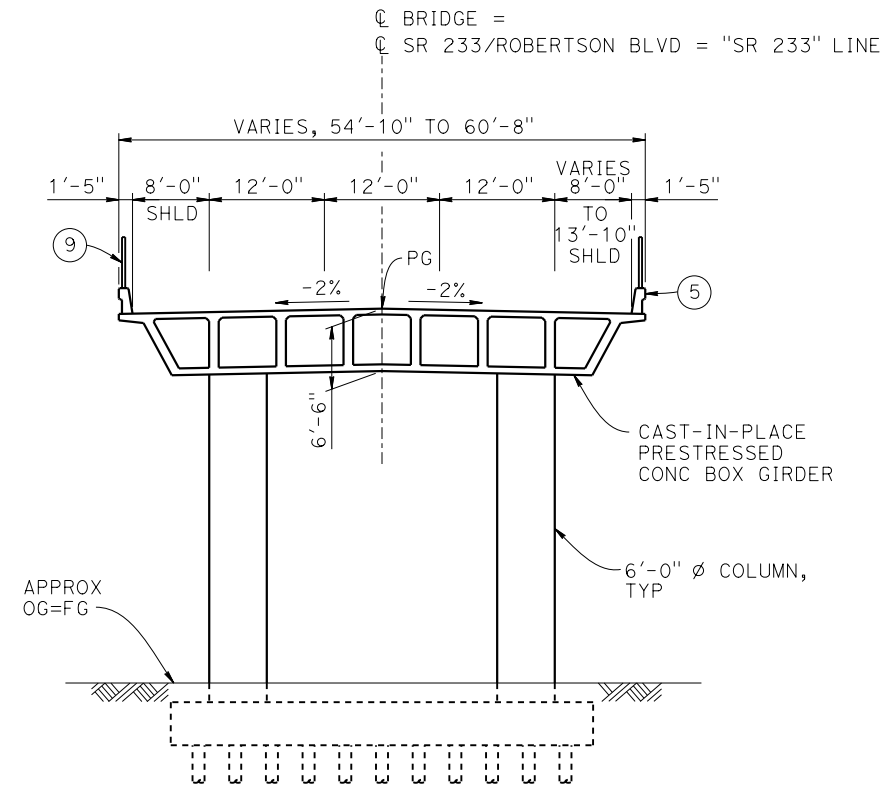


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 1 OF 2

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1210-A
SCALE
AS SHOWN
SHEET NO.



TYPICAL SECTION AT OVERCROSSING
1" = 10'



TYPICAL SECTION AT OVERHEAD
1" = 10'

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

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-S1210-A.
3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1210-A.
4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1210-A.



11-MAY-2015 3:23 MF-ST-K3210-A.dgn

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

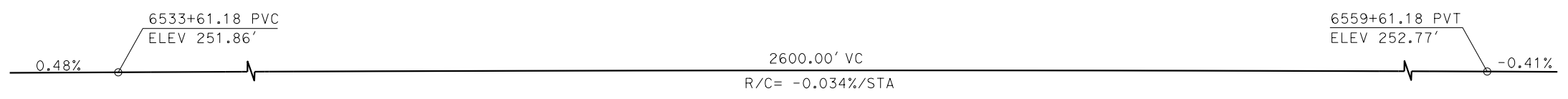
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 2 OF 2

CONTRACT NO.
HSR08-05

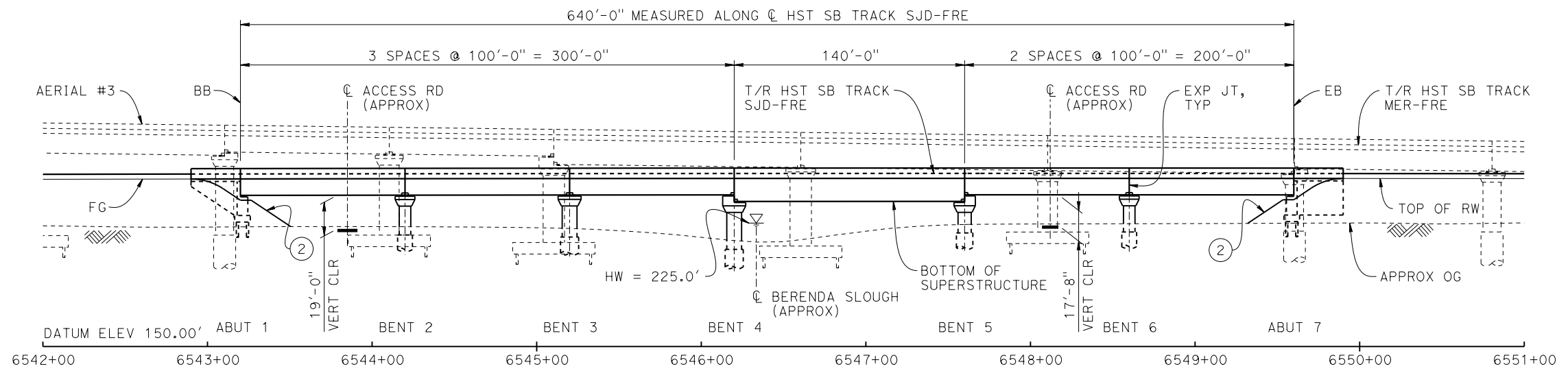
DRAWING NO.
ST-K3210-A

SCALE
AS SHOWN

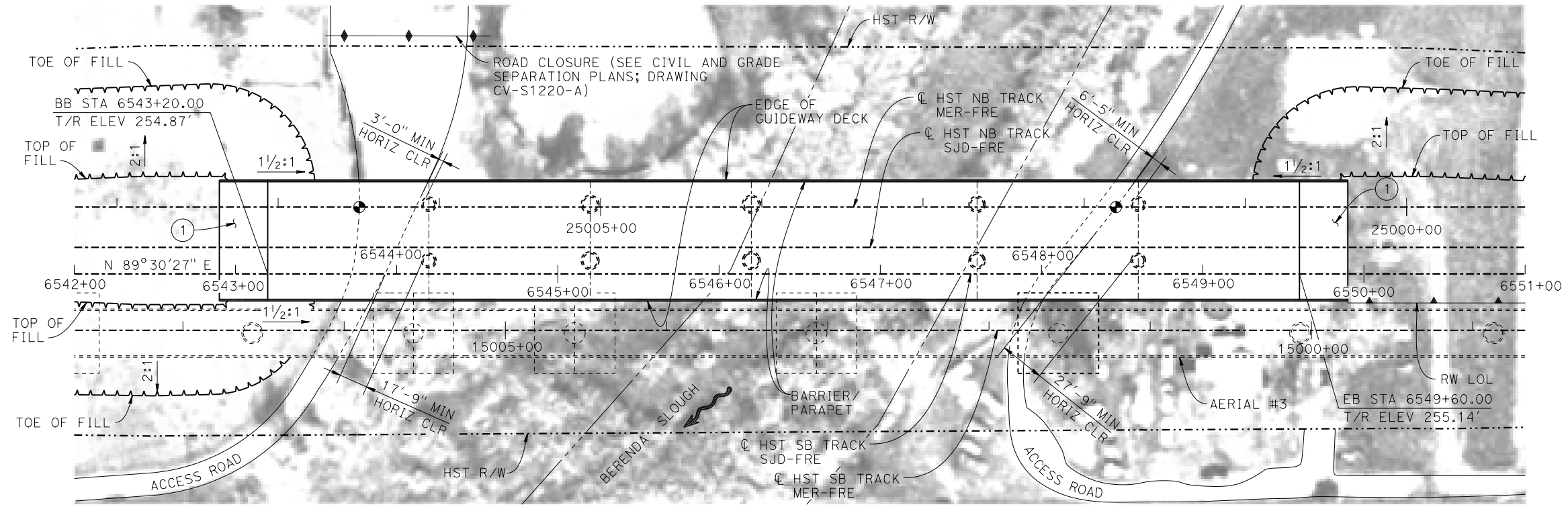
SHEET NO.



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



ELEVATION
1" = 40'



PLAN
1" = 40'

TEMPORARY TRAFFIC OPENINGS

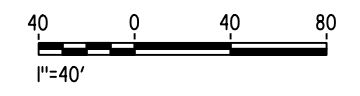
VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u>X</u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ACCESS ROAD	6543+85	20'x16.5'	-
ACCESS ROAD	6548+12	20'x16.5'	-
3. — TEMP TRAFFIC LANE REDUCTION FOR 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-A.
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-A.
5. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1220-A.
6. FOR AERIAL #3 - SOUTHBOUND OVER HST MAINLINE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1420-A TO ST-K1422-A AND ST-K3420-A TO ST-K3422-A.



10-MAR-2016 5:38 MF-ST-K1220-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

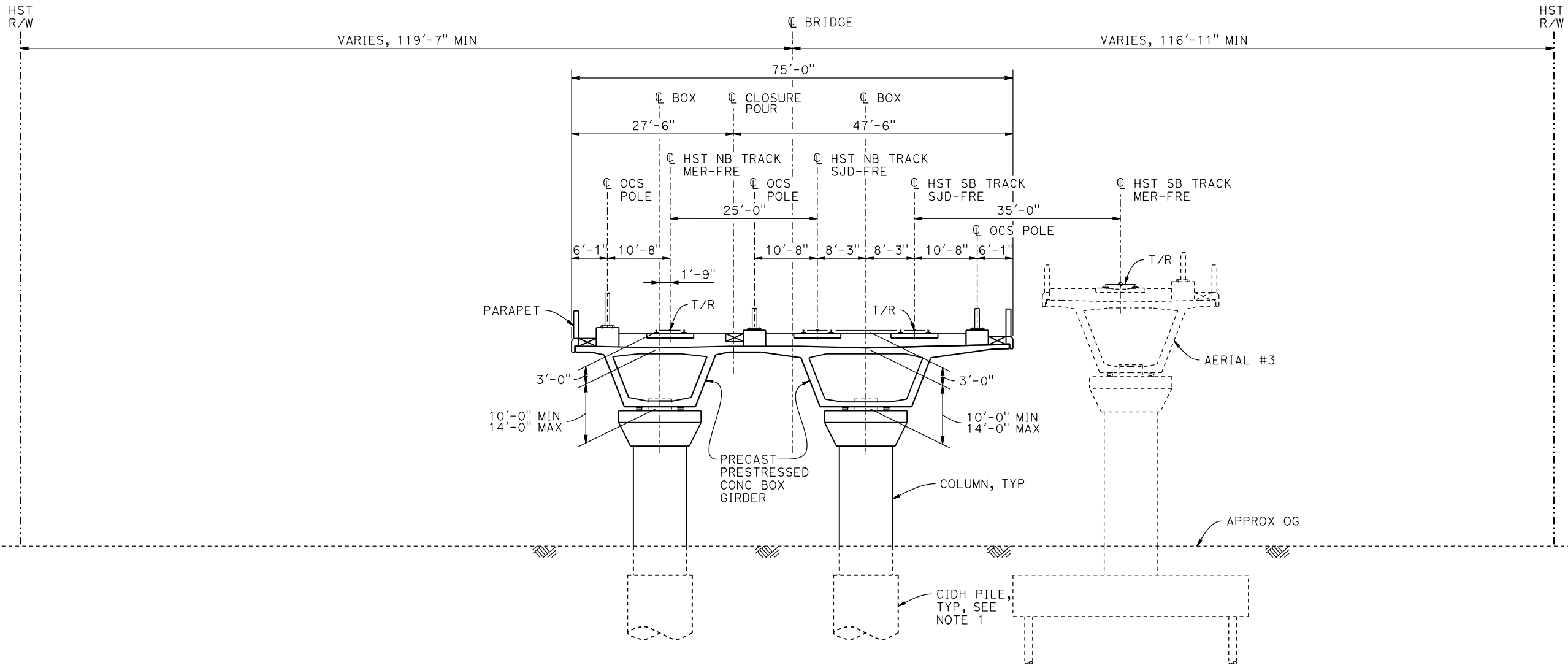
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA SLOUGH BRIDGE - 1 OF 2

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



TYPICAL SECTION
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2	7'-0" ϕ	9'-0" ϕ
3 - 4	9'-0" ϕ	11'-0" ϕ
5	8'-0" ϕ	10'-0" ϕ
6	7'-0" ϕ	9'-0" ϕ

NOTE:
1. DRILLED SHAFT LENGTHS TO BE DETERMINED.



06-FEB-2015 15:49 MF-ST-K3220-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

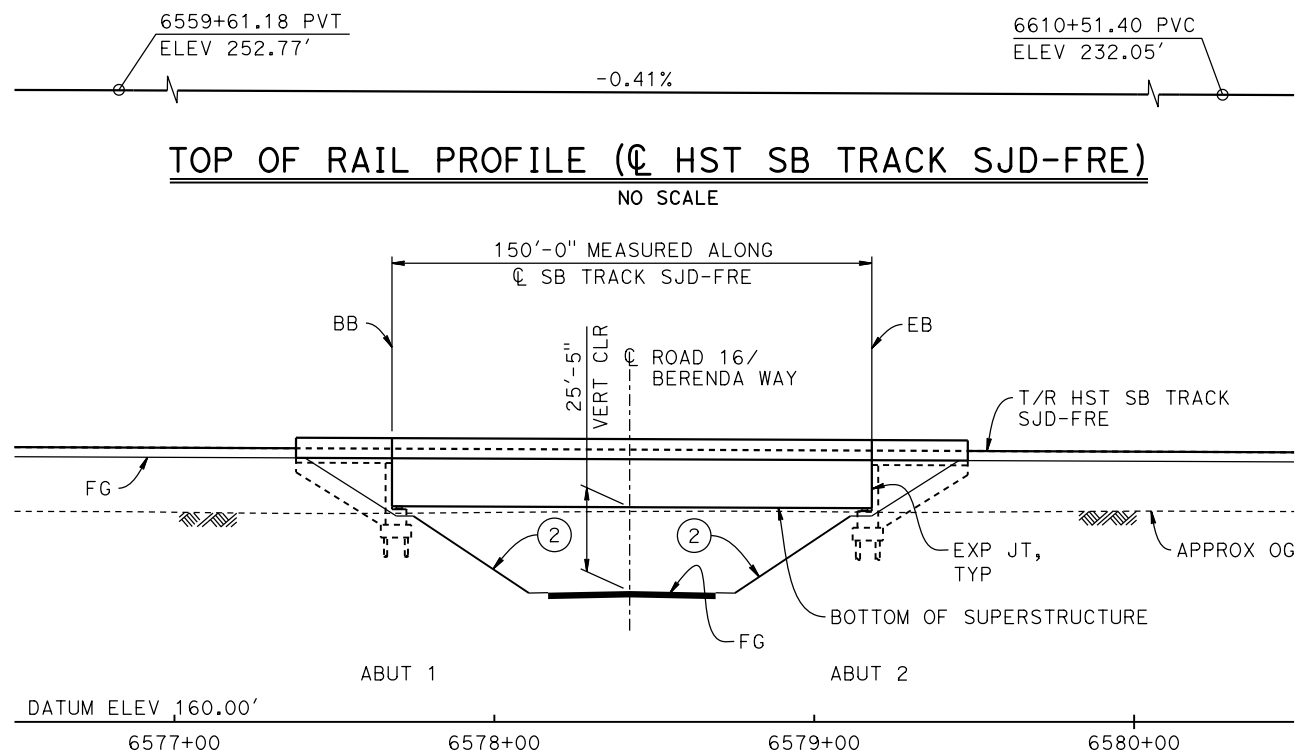
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



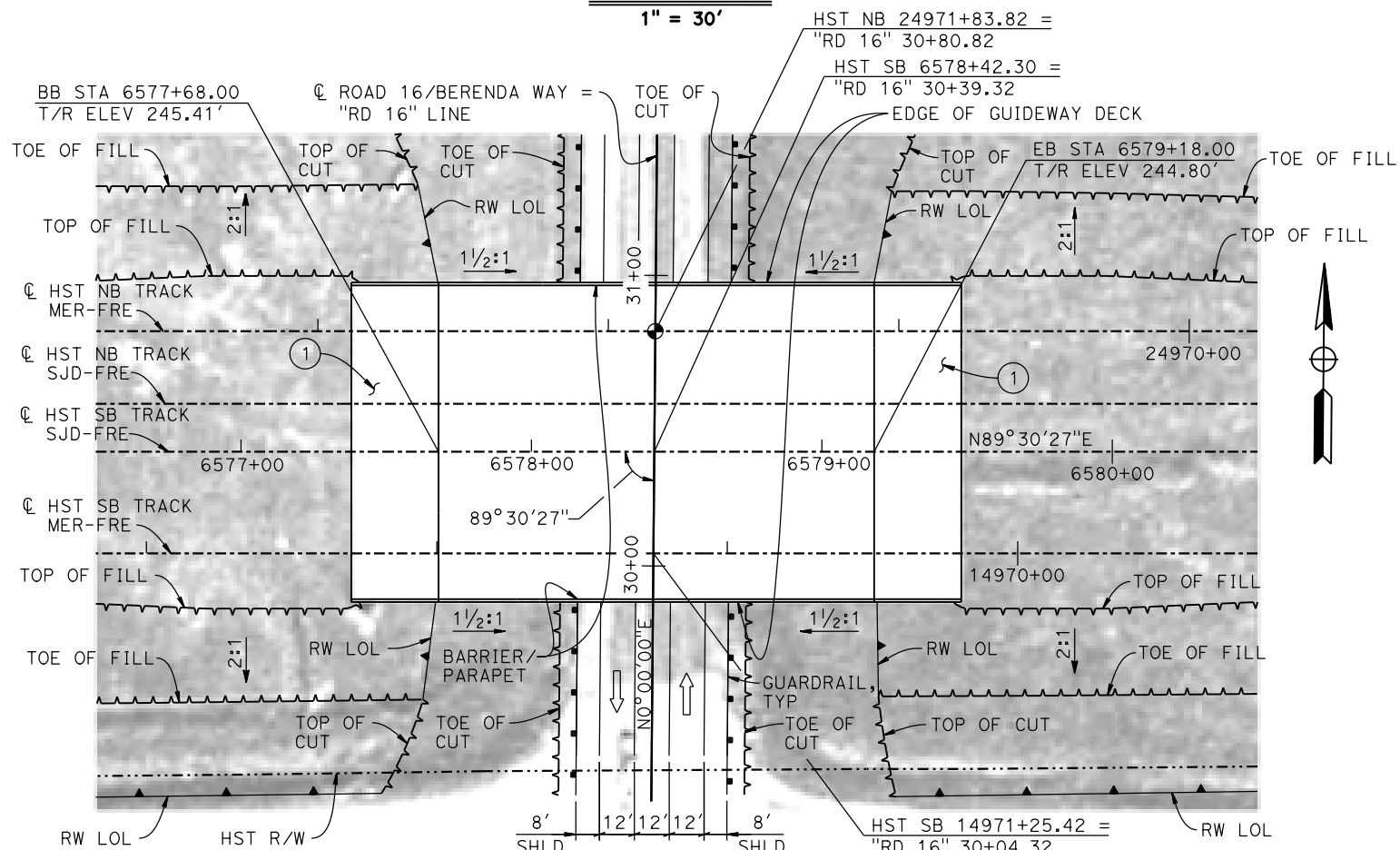
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)
BERENDA SLOUGH BRIDGE - 2 OF 2

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



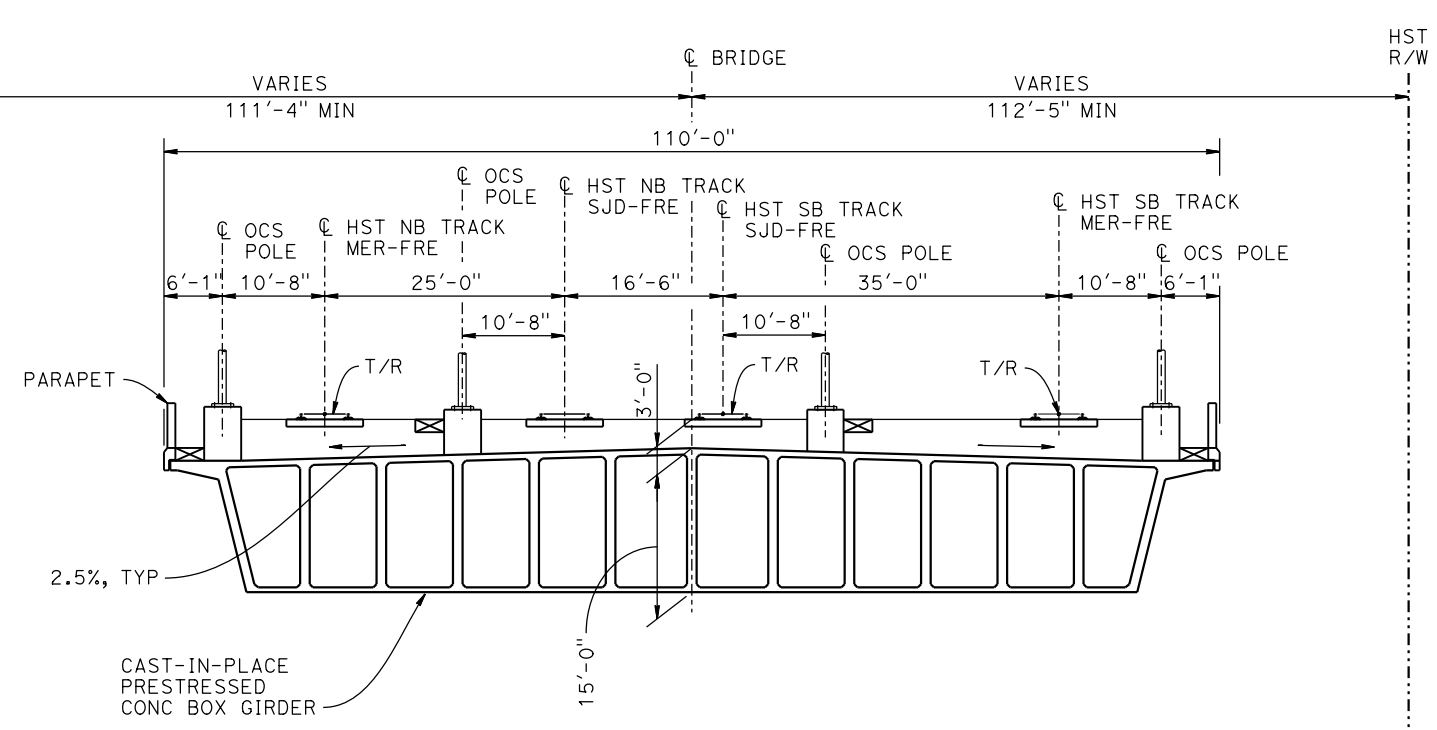
ELEVATION

1" = 30'



PLAN

1" = 30'



TYPICAL SECTION

1" = 10'

NOTES:

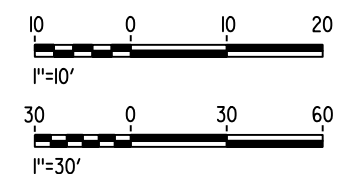
1. 16" ϕ PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITION, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-A.
4. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-A.

LEGEND:

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

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)
ROAD 16/BERENDA WAY 6578+42	49'x16.5' 2-WAY
3. <input type="checkbox"/> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.	



06-FEB-2015 16:08 MF-ST-K1230-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. M.

DRAWN BY
J. KIDWELL

CHECKED BY
S. J. S.

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

SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE

GENERAL PLAN (SJD-FRE)

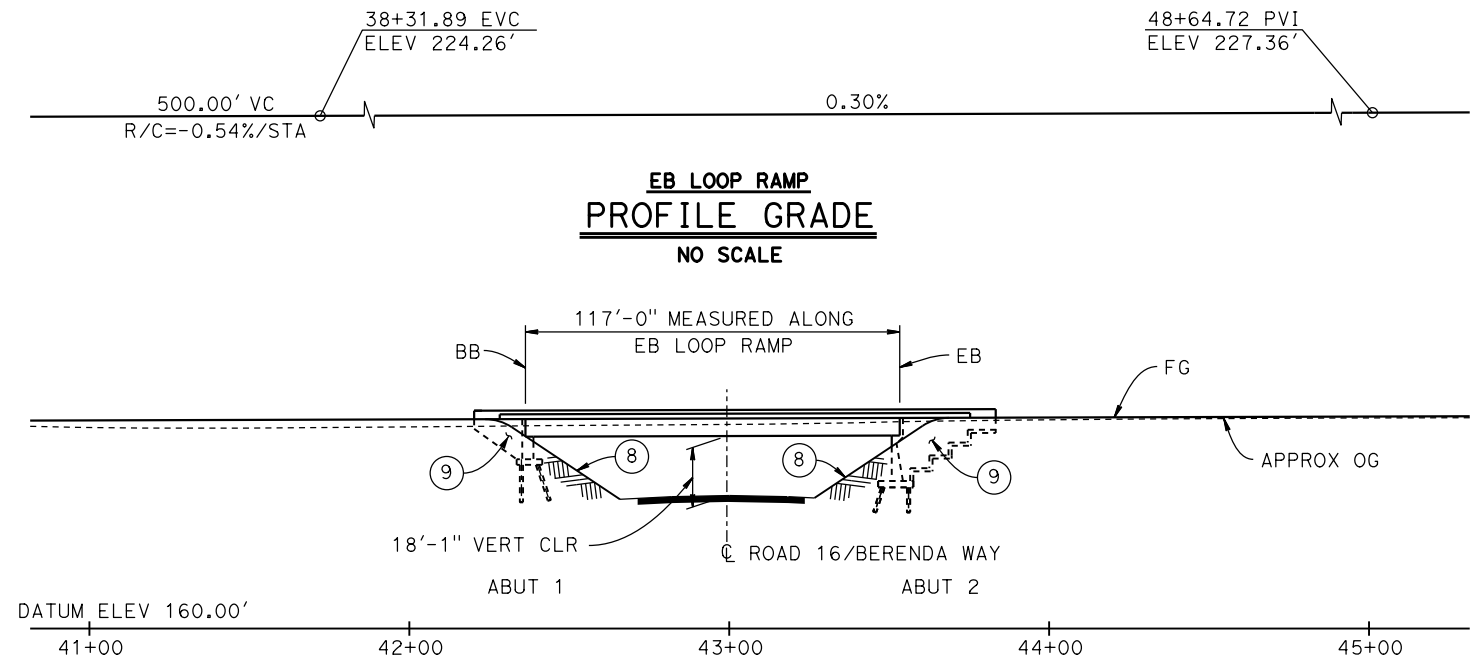
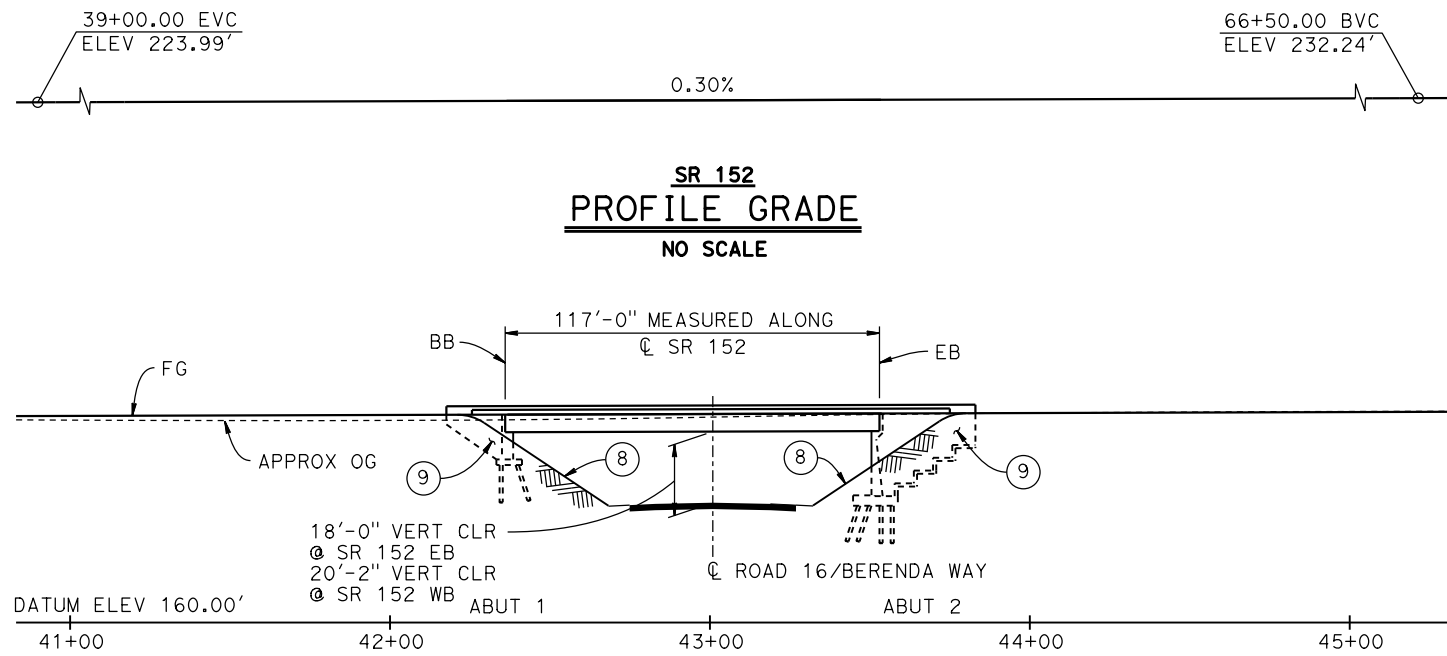
BERENDA WAY (ROAD 16) UNDERPASS

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1230-A

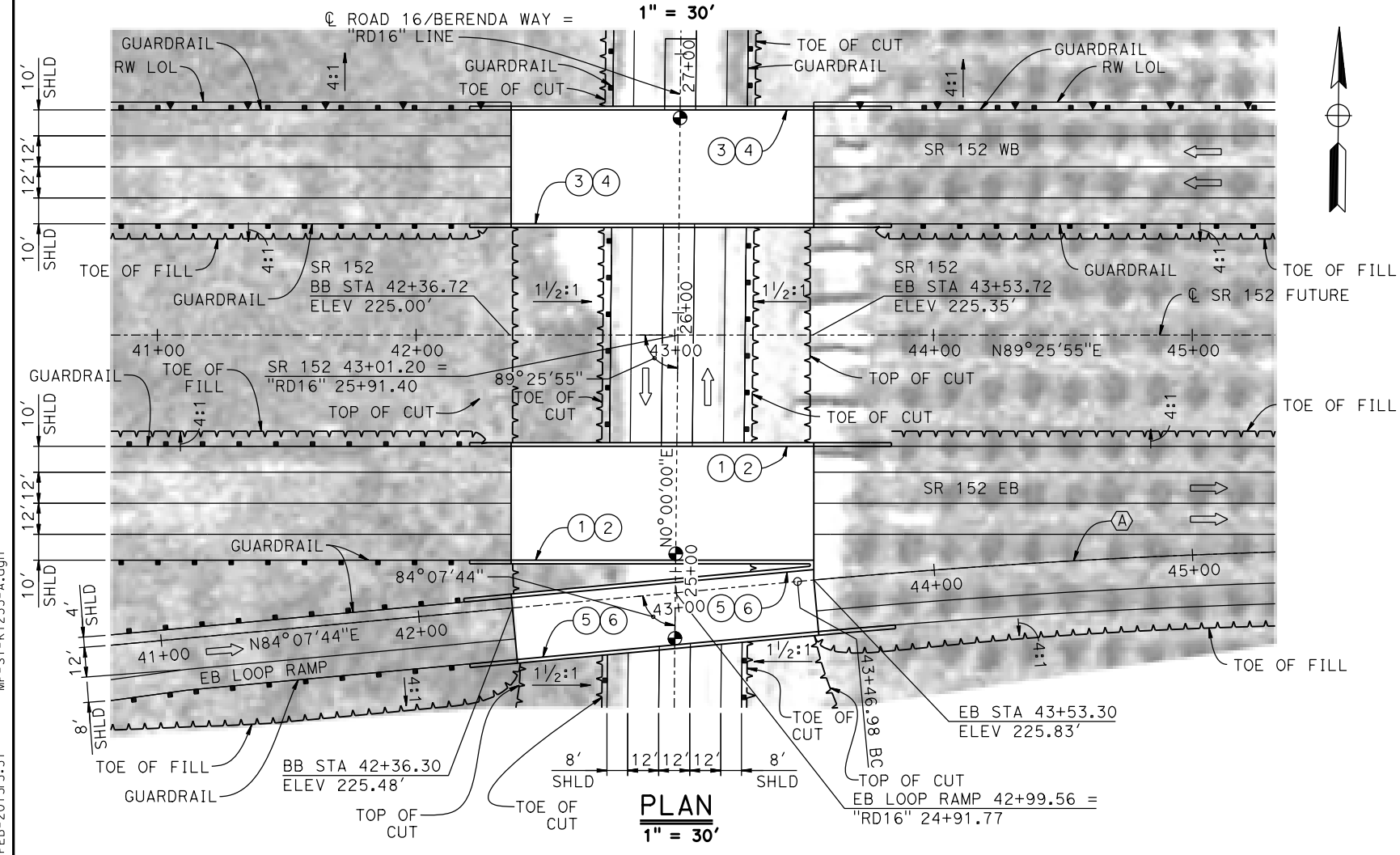
SCALE
AS SHOWN

SHEET NO.



SR 152 WB & EB (ROAD 16) UNDERCROSSINGS
ELEVATION
1" = 30'

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



CURVE NO. 231-03 (A)

R = 3,000.00'
Δ = 04°09'26"
L = 217.68'
T = 108.89'

NOTES:

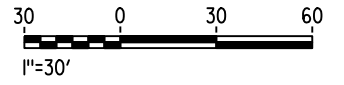
- FOR TYPICAL SECTION SEE DRAWING ST-K3235-A.
- ASSUME CLASS 140 PILES AT ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-A.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-A.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-A.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "SR 152 EB (ROAD 16) UNDERCROSSING"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ PAINT "SR 152 WB (ROAD 16) UNDERCROSSING"
- ④ PAINT "BRIDGE NO. XX-XXXX"
- ⑤ PAINT "EB LOOP RAMP (ROAD 16) UNDERCROSSING"
- ⑥ PAINT "BRIDGE NO. XX-XXXX"
- ⑦ CONCRETE BARRIER TYPE 732
- ⑧ SLOPE PAVING (1 1/2H:1V)
- ⑨ WINGWALL

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC		FALSEWORK OPENING REQD (HORIZ x VERT)	
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+01	52'x16.5' 2-WAY
3. _	TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.		



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. P. M.
DRAWN BY
W. JOHNSEN
CHECKED BY
S. J. S.
IN CHARGE
C. LEMLEY
DATE
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

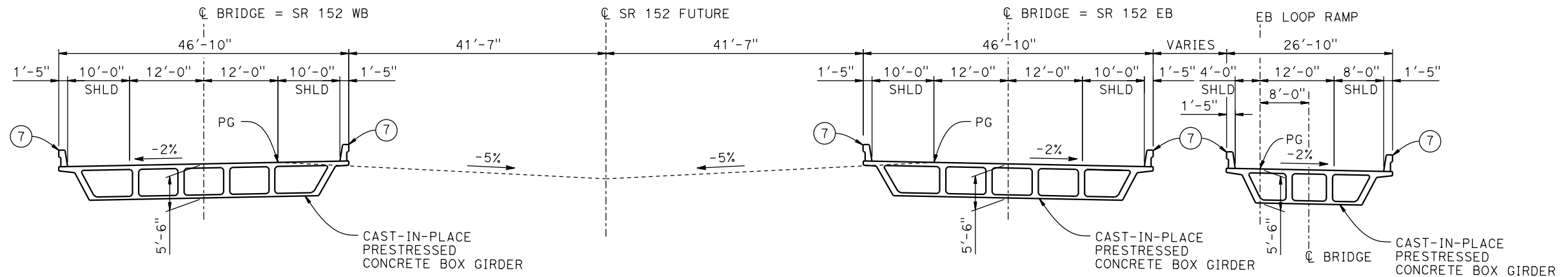
NOT FOR
CONSTRUCTION



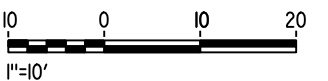
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA WAY (ROAD 16) INTERCHANGE - 1 OF 2

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

06-FEB-2015 15:51 MF-ST-K1235-A.dgn



TYPICAL SECTION
1" = 10'



MF-ST-K3235-A.dgn
 06-FEB-2015 15:51:51
 P0036110

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. P. M.
 DRAWN BY
W. JOHNSEN
 CHECKED BY
S. J. S.
 IN CHARGE
C. LEMLEY
 DATE
02/13/2015

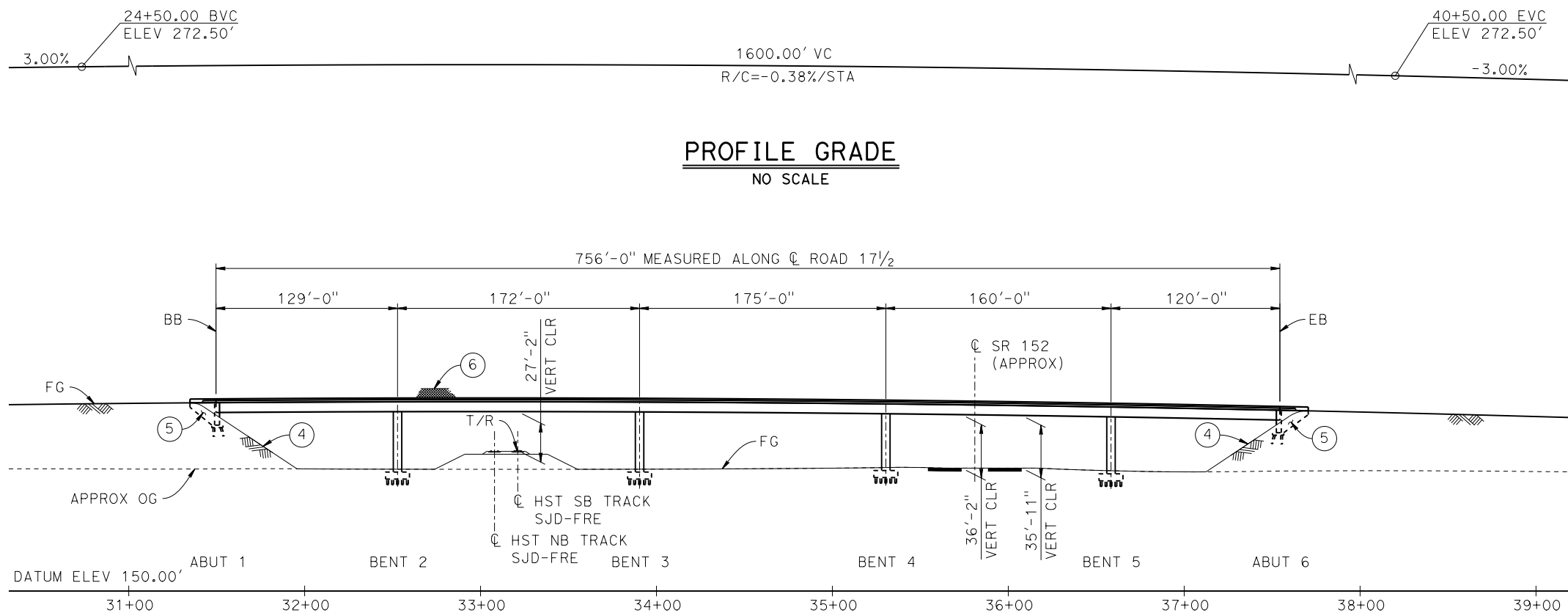
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

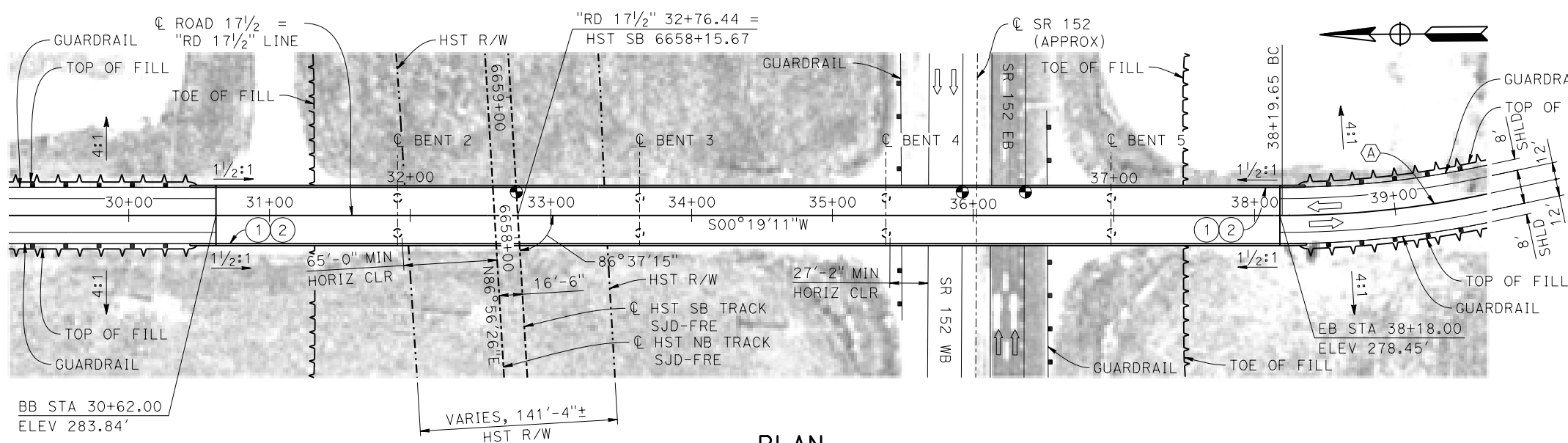


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 TYPICAL SECTION (SJD-FRE)
 BERENDA WAY (ROAD 16) INTERCHANGE - 2 OF 2

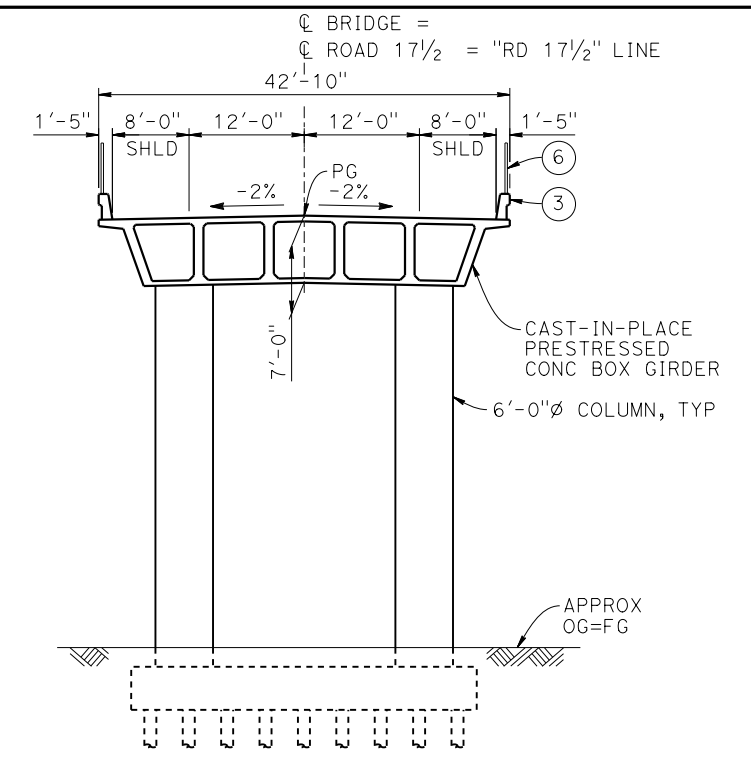
CONTRACT NO.
 HSR08-05
 DRAWING NO.
 ST-K3235-A
 SCALE
 AS SHOWN
 SHEET NO.



ELEVATION
1"=50'



PLAN
1"=50'



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)
SR 152 36+23	40'x16.5' E BND
SR 152 35+80	40'x16.5' W BND

- TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

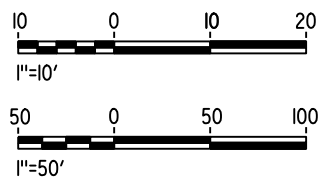
- LEGEND:**
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - INDICATES DIRECTION OF TRAFFIC
 - ① PAINT "ROAD 17 1/2 OVERHEAD"
 - ② PAINT "BRIDGE NO. XX-XXXX"
 - ③ CONCRETE BARRIER TYPE 736 MOD
 - ④ SLOPE PAVING (1 1/2 H:1 V)
 - ⑤ WINGWALL
 - ⑥ AR FENCE WITH SOLID PLATE

CURVE NO. 240-01 (A)

R = 700.00'
Δ = 135°19'11"
L = 1,653.24'
T = 1,703.38'

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-S1240-A.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1240-A.



10-MAR-2016 5:39 MF-ST-K1240-A.dgn

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
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

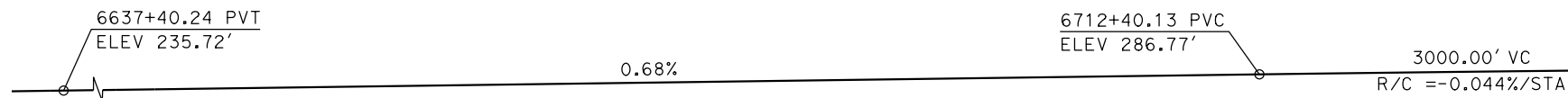
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROAD 17 1/2 OVERHEAD

CONTRACT NO.
HSR08-05

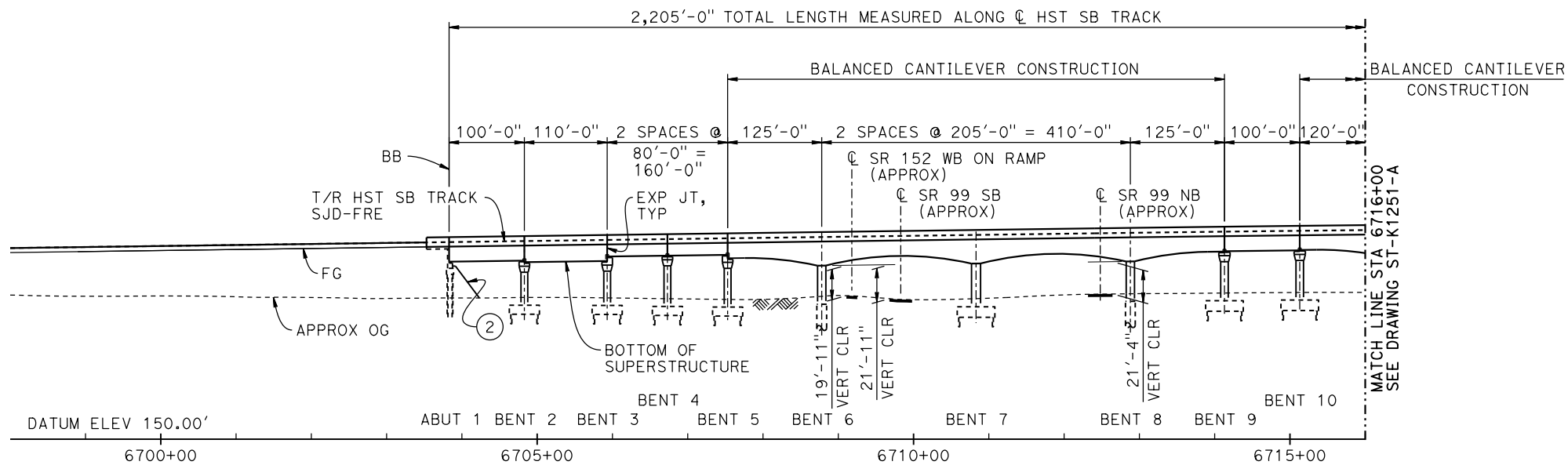
DRAWING NO.
ST-K1240-A

SCALE
AS SHOWN

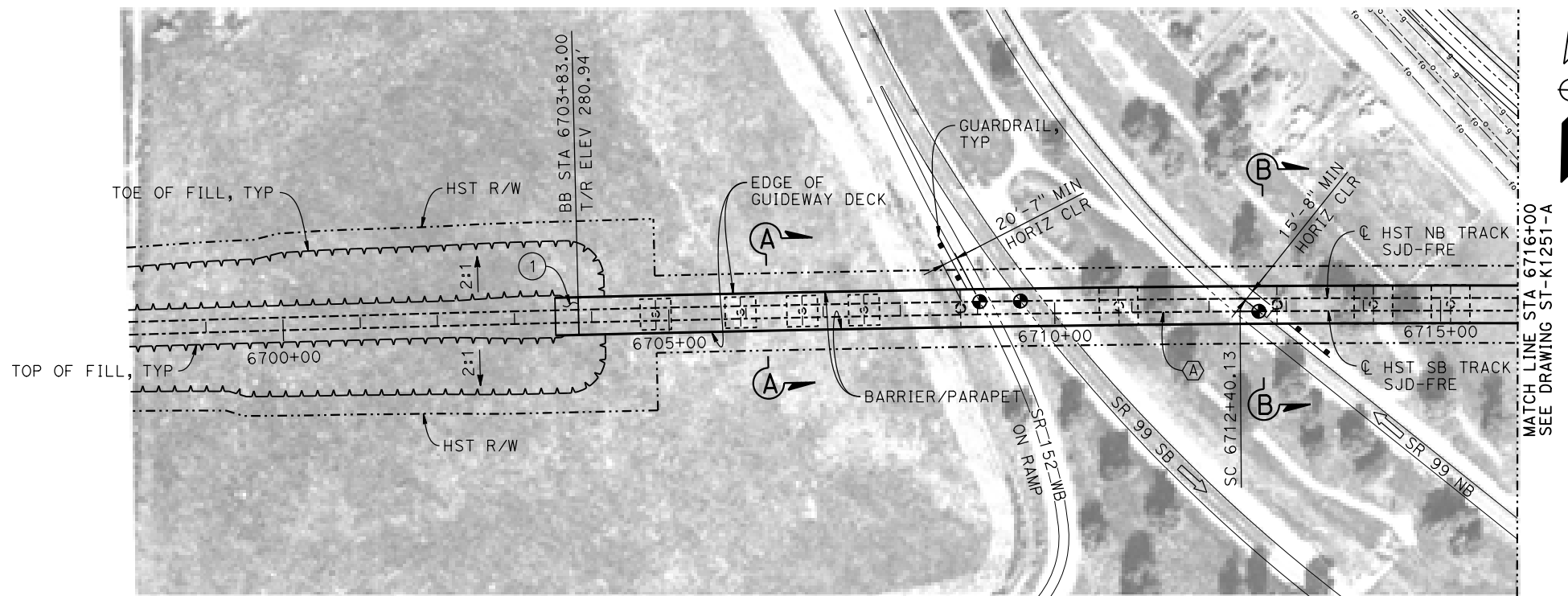
SHEET NO.



TOP OF RAIL PROFILE (C 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)	
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:

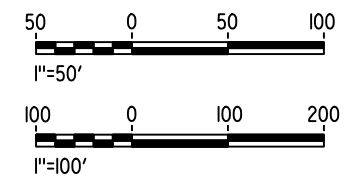
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAVEL
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

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-A.
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-A.
5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1250-A.

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

CURVE NO. 250-02 (B)
R = 3,000.00'
Δ = 9°21'10"
L = 489.71'
T = 245.40'



06-FEB-2015 15:51:25 MF-ST-K1250-A.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
02/13/2015

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 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 1 OF 3

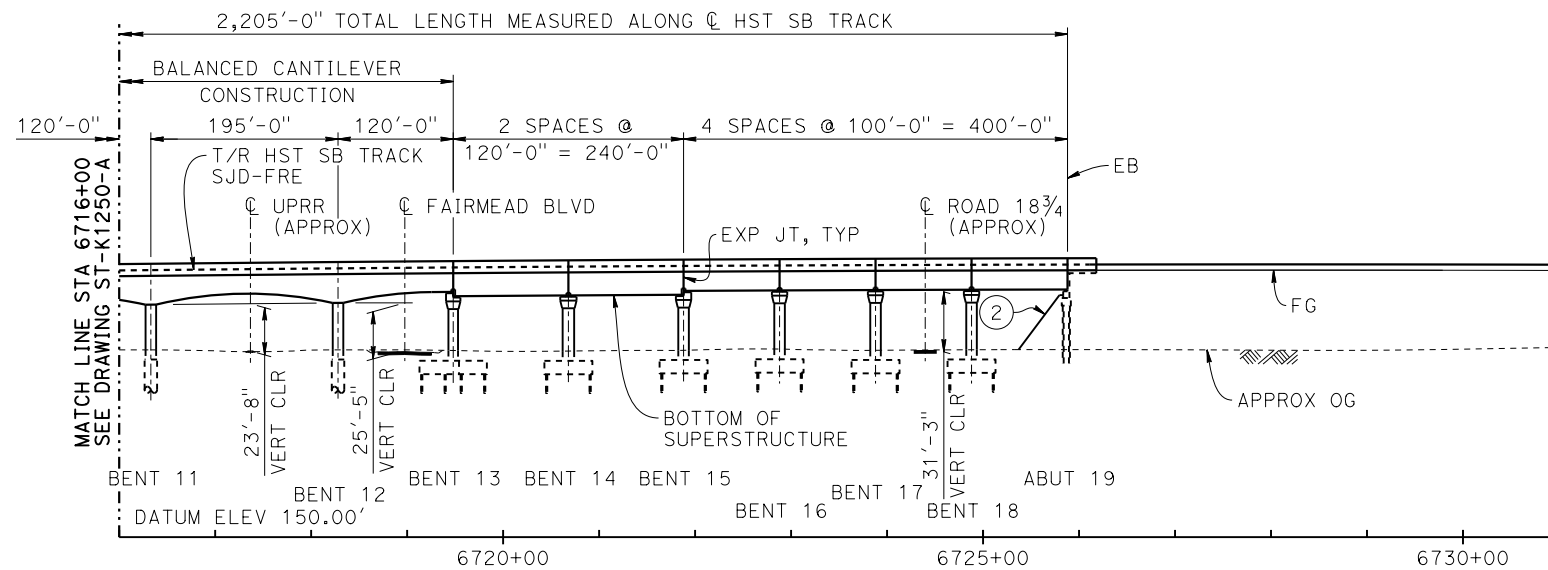
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1250-A
SCALE
AS SHOWN
SHEET NO.

6742+40.13 PVT
ELEV 287.61' -0.62%

3000.00' VC
R/C = -0.044%/STA

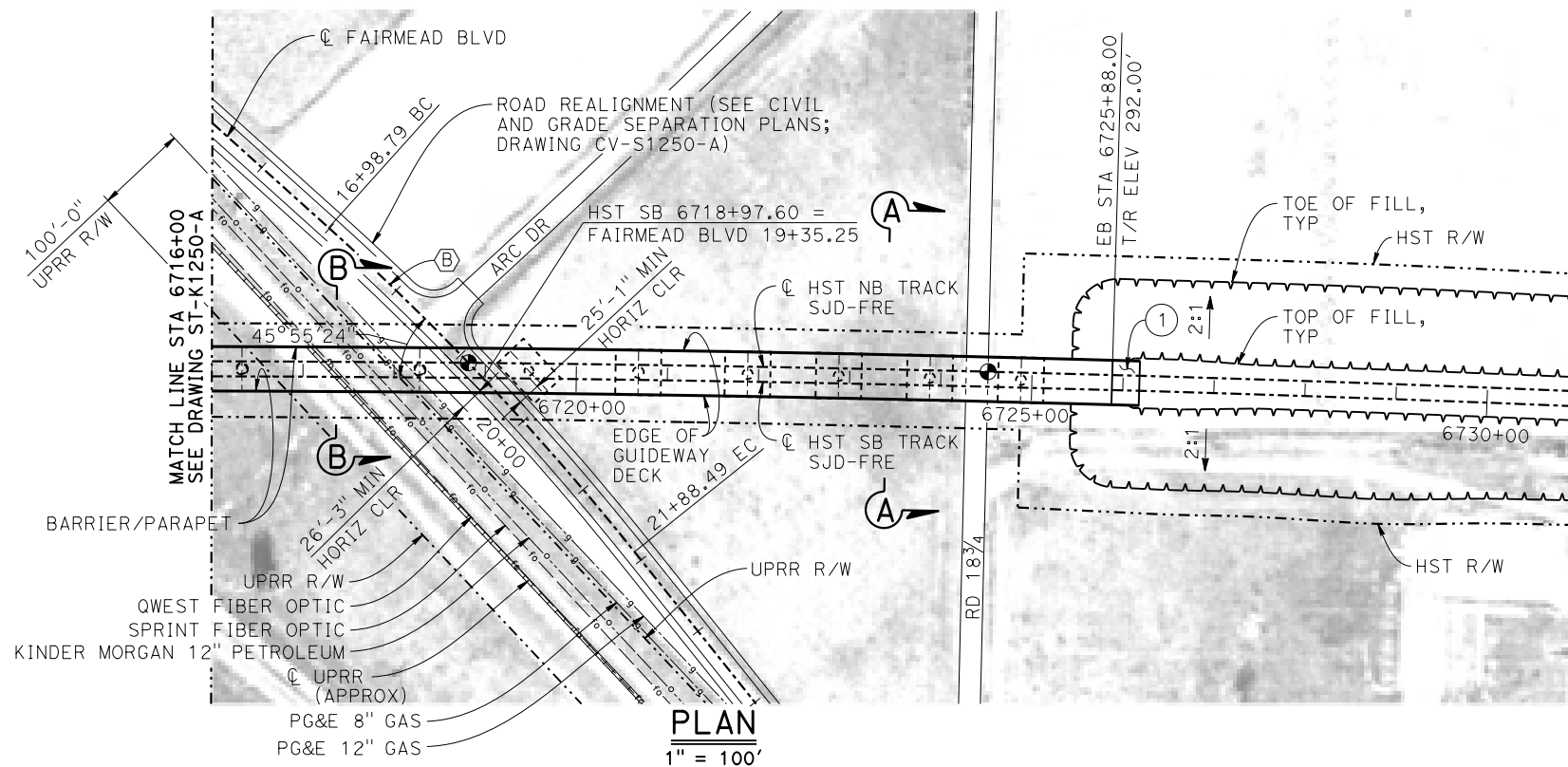
TOP OF RAIL PROFILE (C HST SB TRACK)

NO SCALE



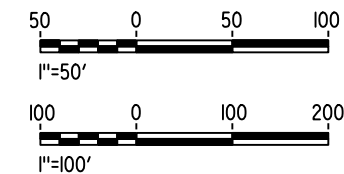
DEVELOPED ELEVATION

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



PLAN

1" = 100'



10-MAR-2016 5:40 MF-ST-K1251-A.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
03/18/2016

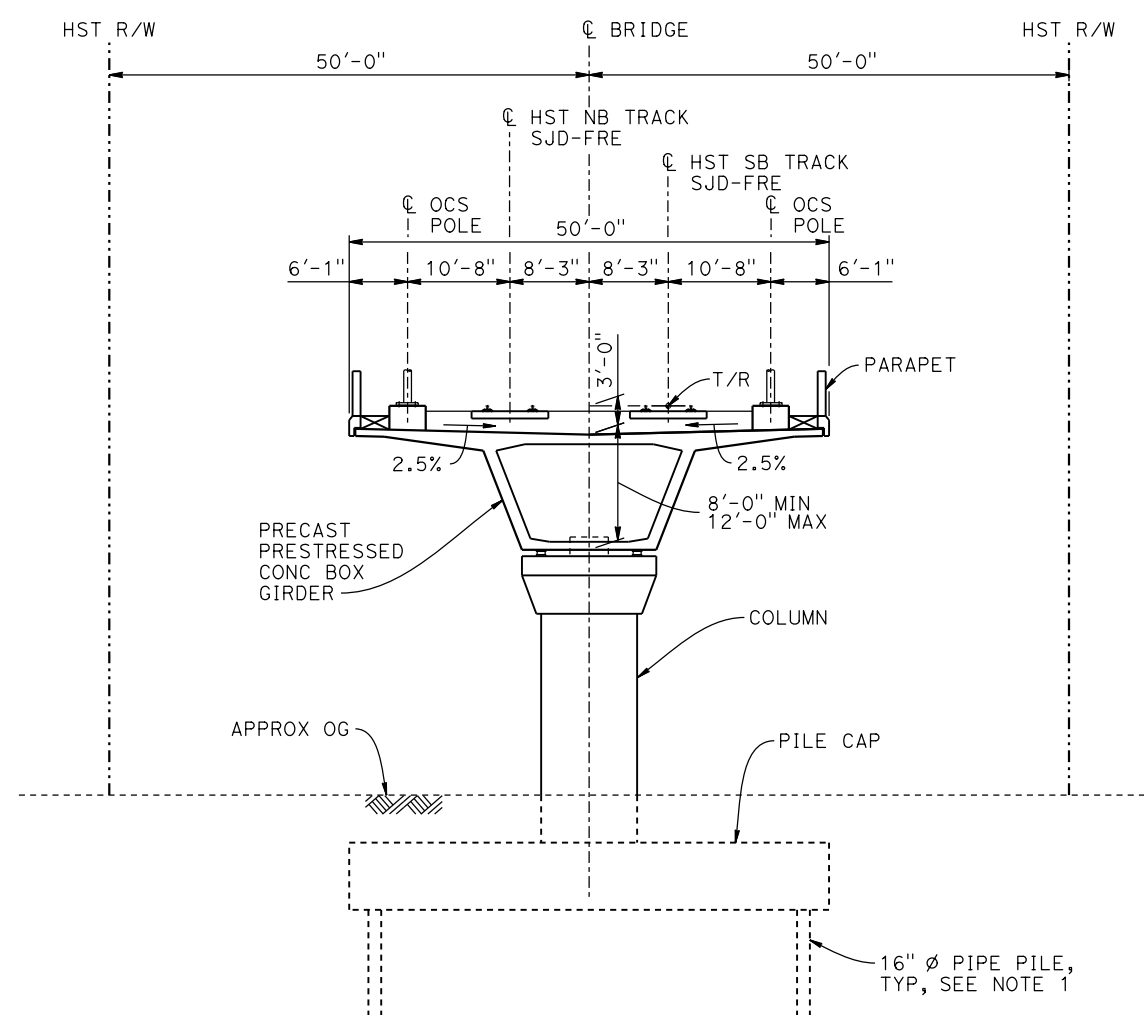
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

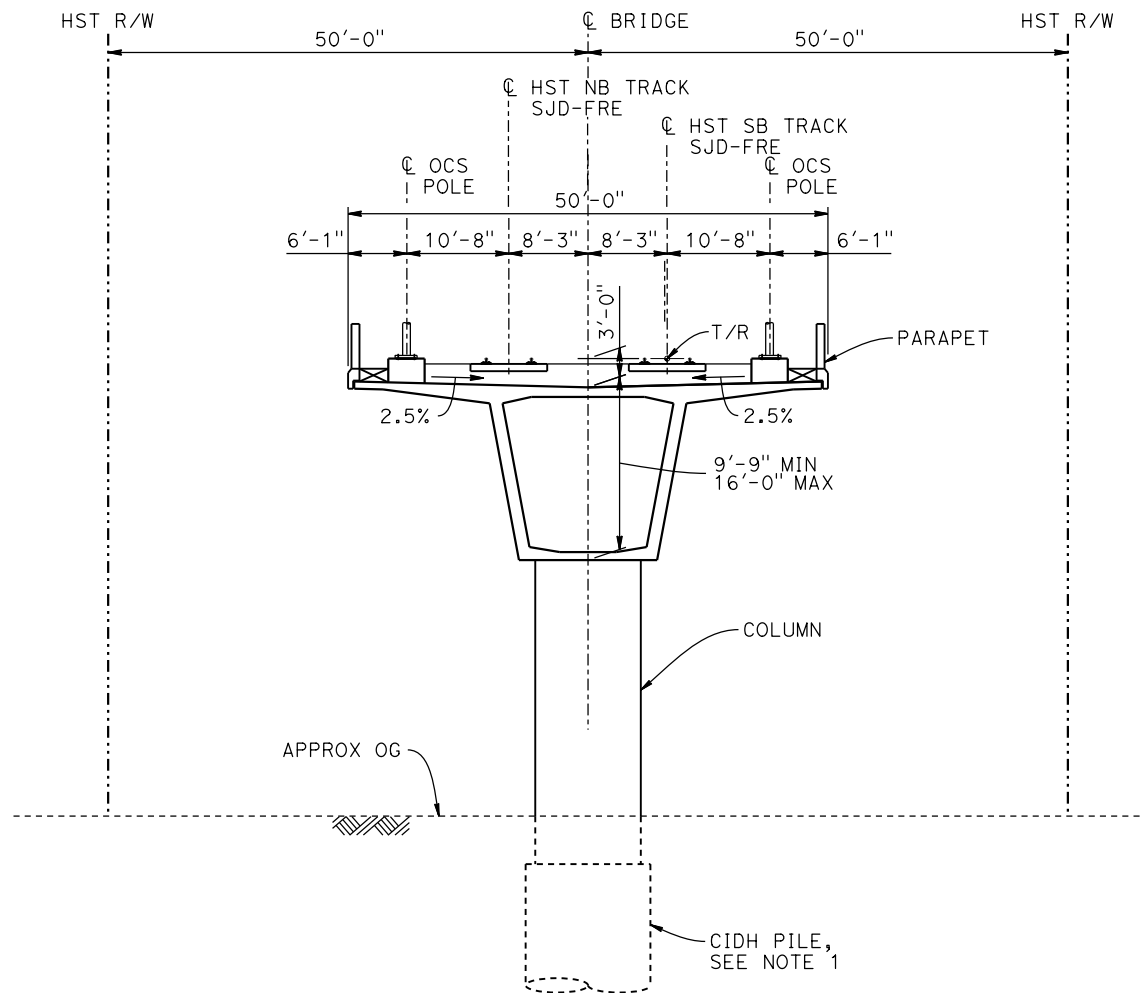


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 2 OF 3

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



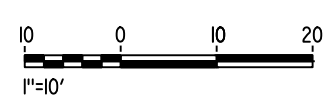
SECTION A-A
1" = 10'



SECTION B-B
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	10'-0" ϕ	
14	12'-0" ϕ	
15 - 18	11'-0" ϕ	

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



06-FEB-2015 15:51:26 MF-ST-K3250-A.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
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

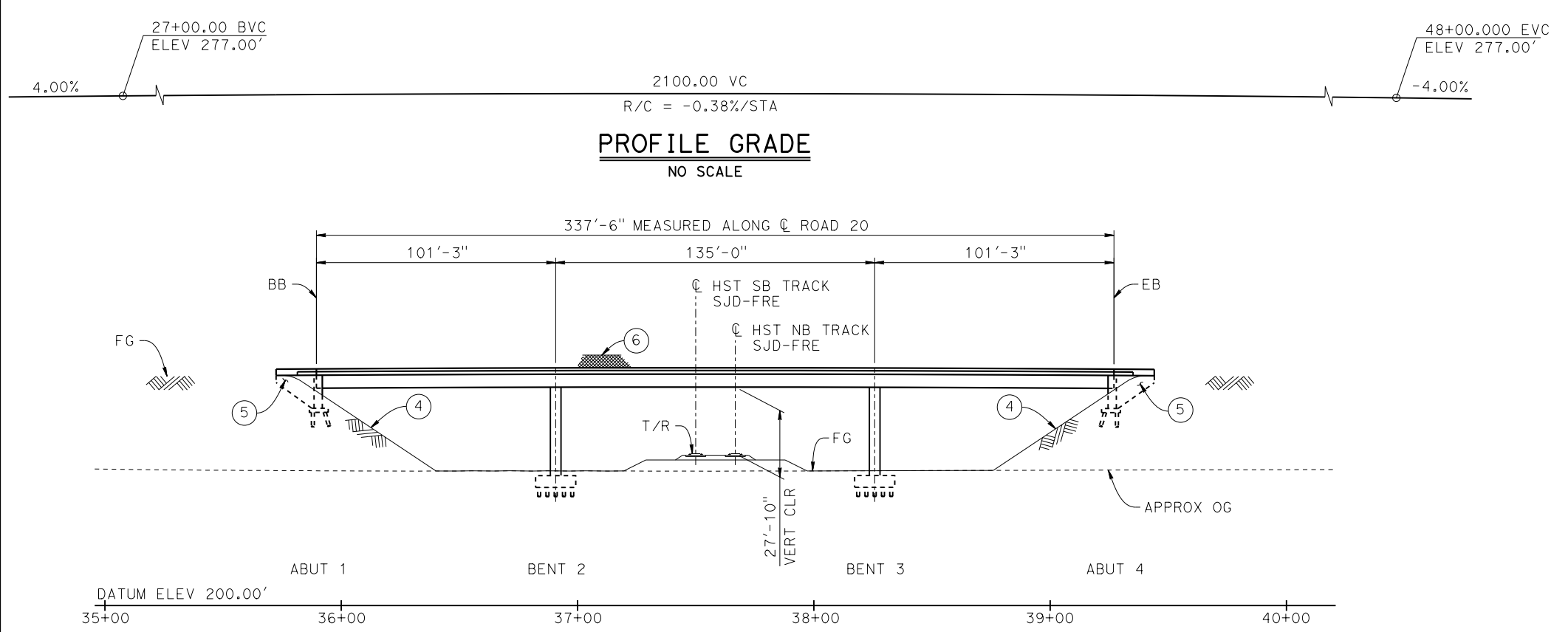
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 3 OF 3

CONTRACT NO.
HSR08-05

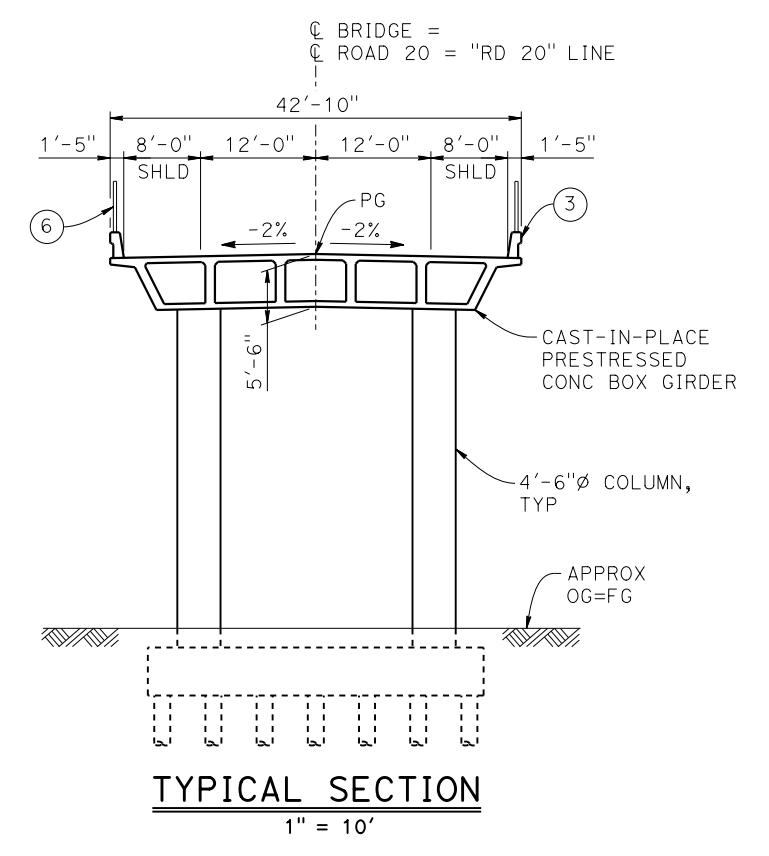
DRAWING NO.
ST-K3250-A

SCALE
AS SHOWN

SHEET NO.



ELEVATION
1" = 30'



TYPICAL SECTION
1" = 10'

LEGEND:

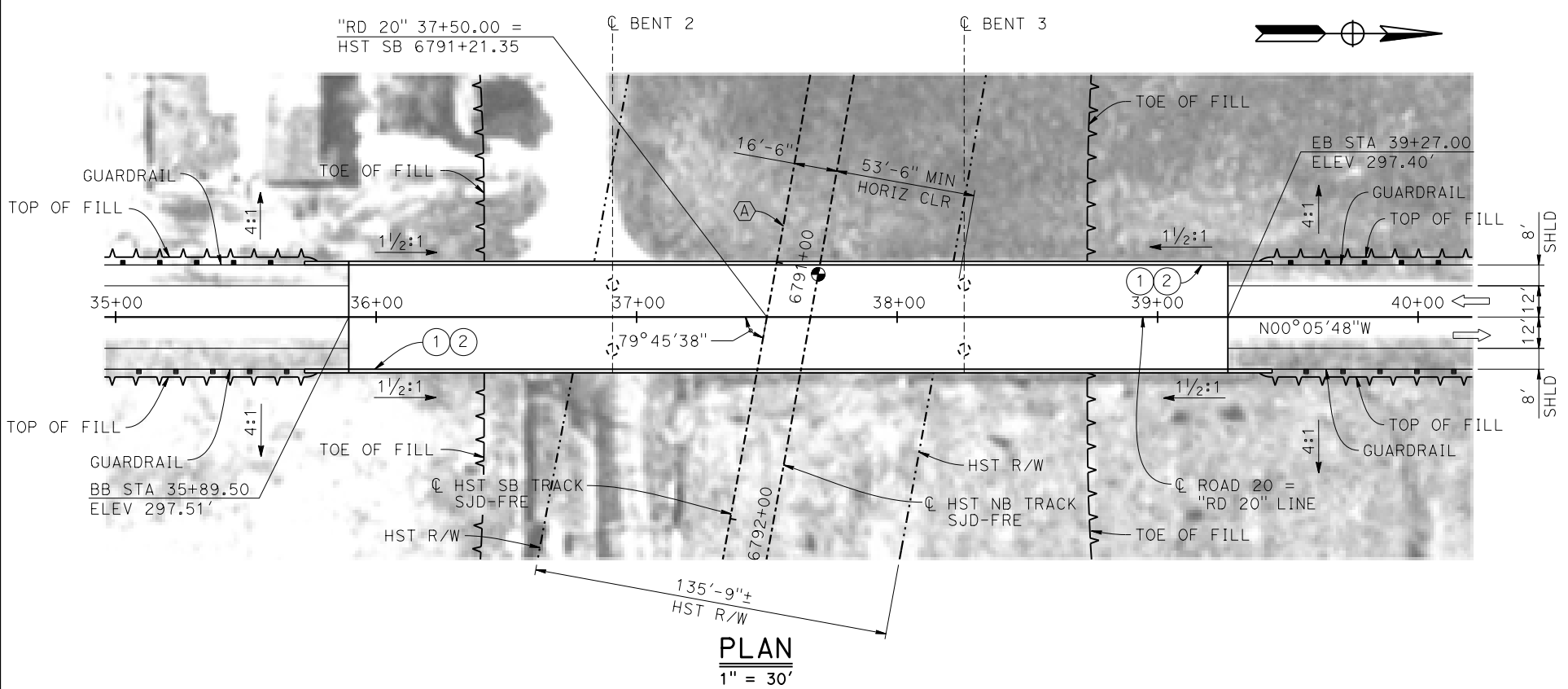
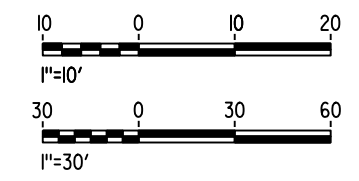
- ⦿ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "ROAD 20 OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1½H:1V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

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; SEE DRAWING CV-S1260-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; SEE DRAWING CV-S1260-A.

CURVE SJD-FRE 6 SB (A)

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



PLAN
1" = 30'

10-MAR-2016 5:41 MF-ST-K1260-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

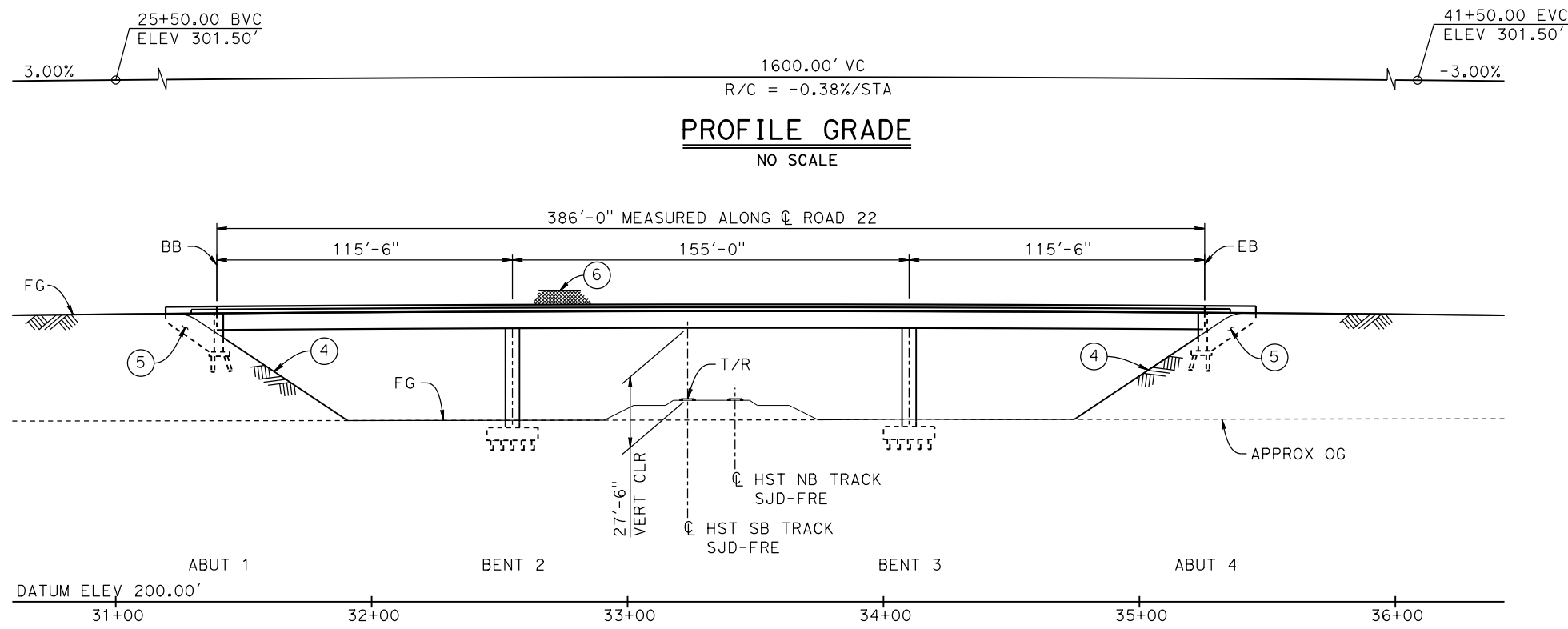
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

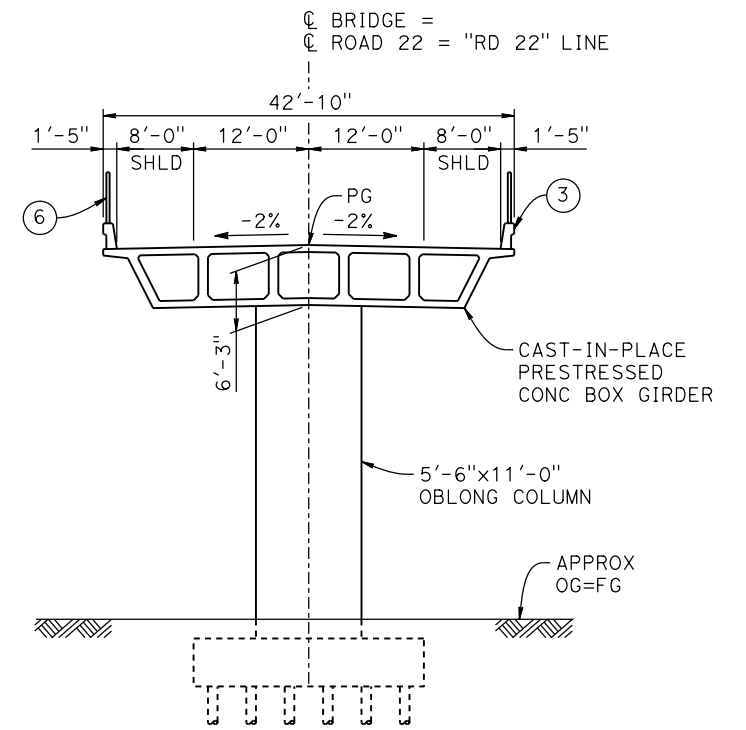


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROAD 20 OVERHEAD

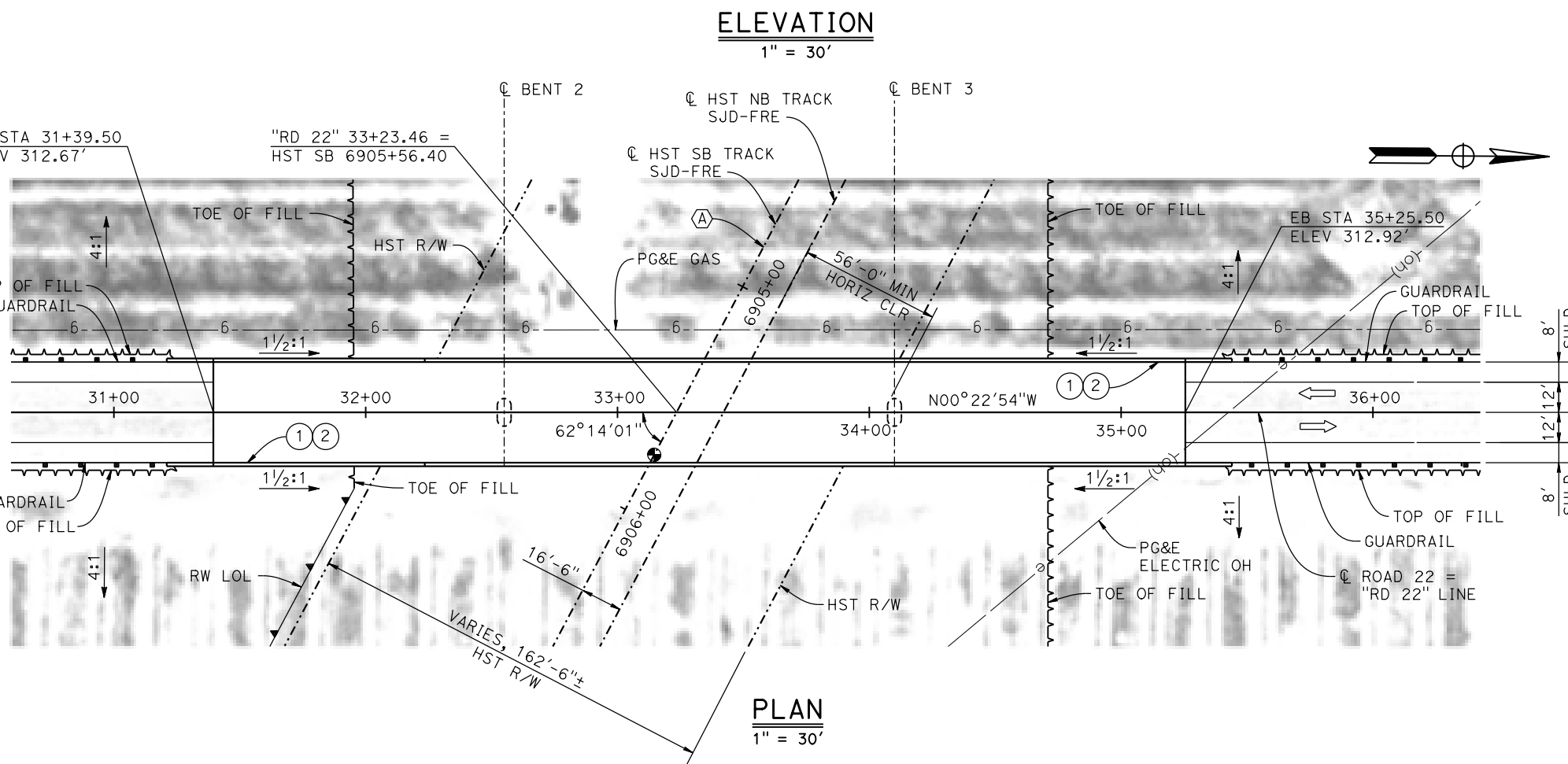
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1260-A
SCALE
AS SHOWN
SHEET NO.



PROFILE GRADE
NO SCALE



TYPICAL SECTION
1" = 10'



ELEVATION
1" = 30'

PLAN
1" = 30'

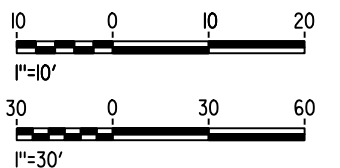
LEGEND:

- ⊕ 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:

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; SEE DRAWING CV-S1280-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; SEE DRAWING CV-S1280-A.

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



17-MAR-2016 09:13 MF-ST-K1280-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

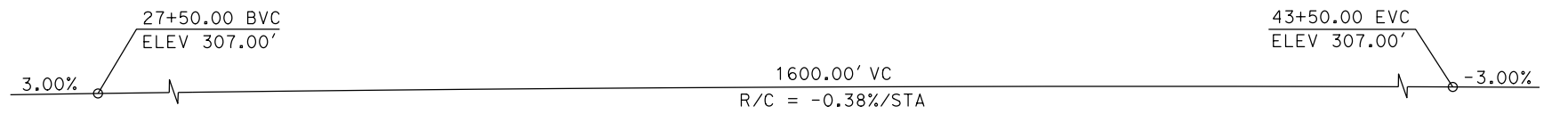
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

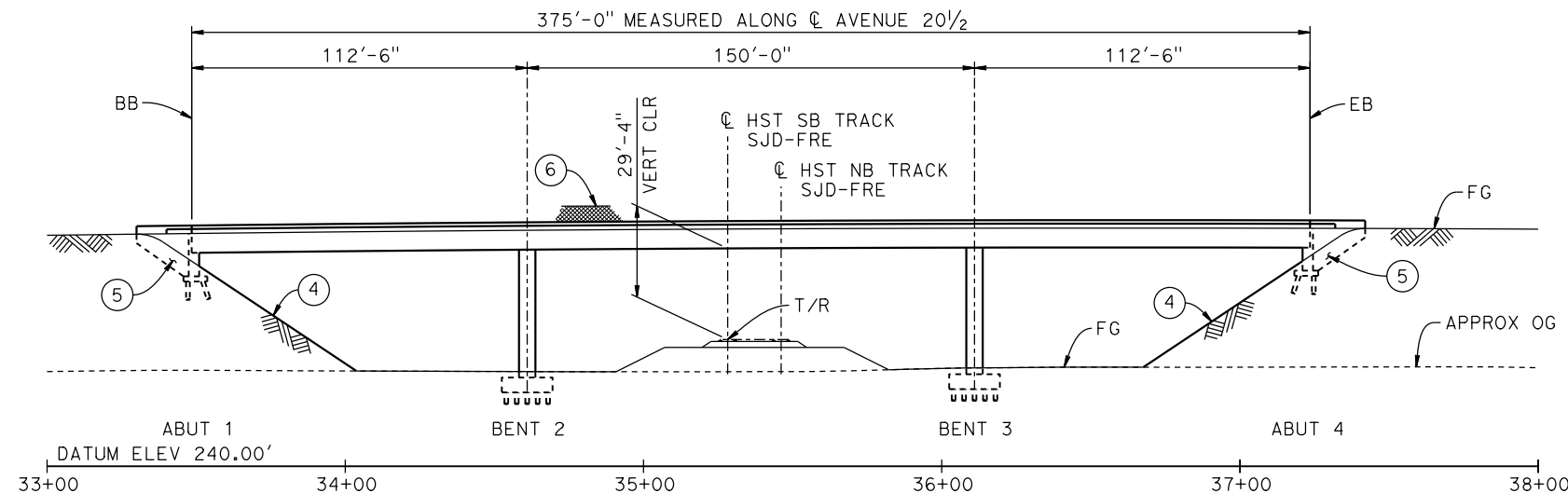


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROAD 22 OVERHEAD

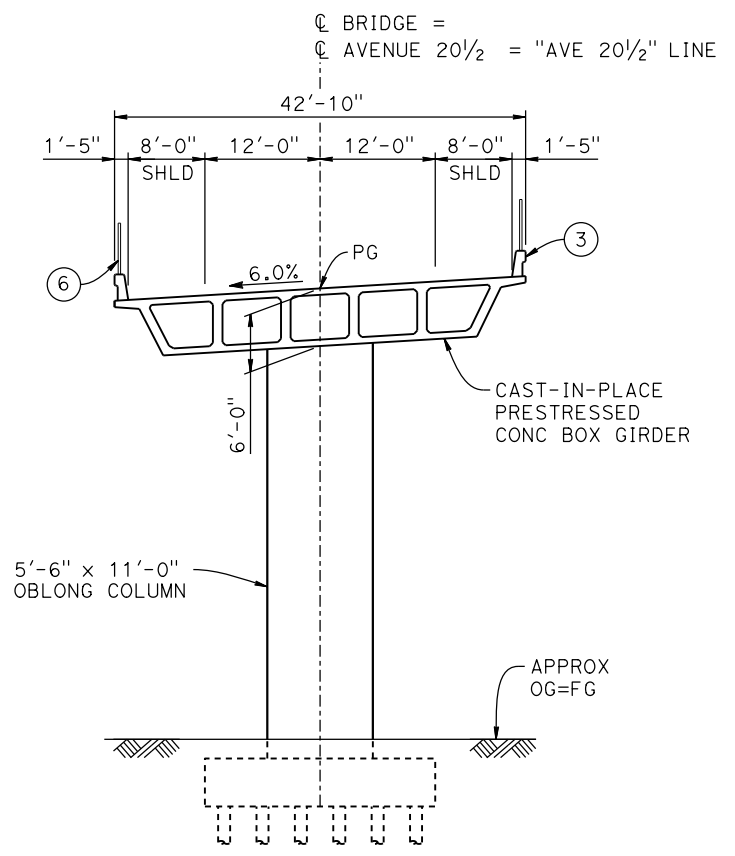
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1280-A
SCALE
AS SHOWN
SHEET NO.



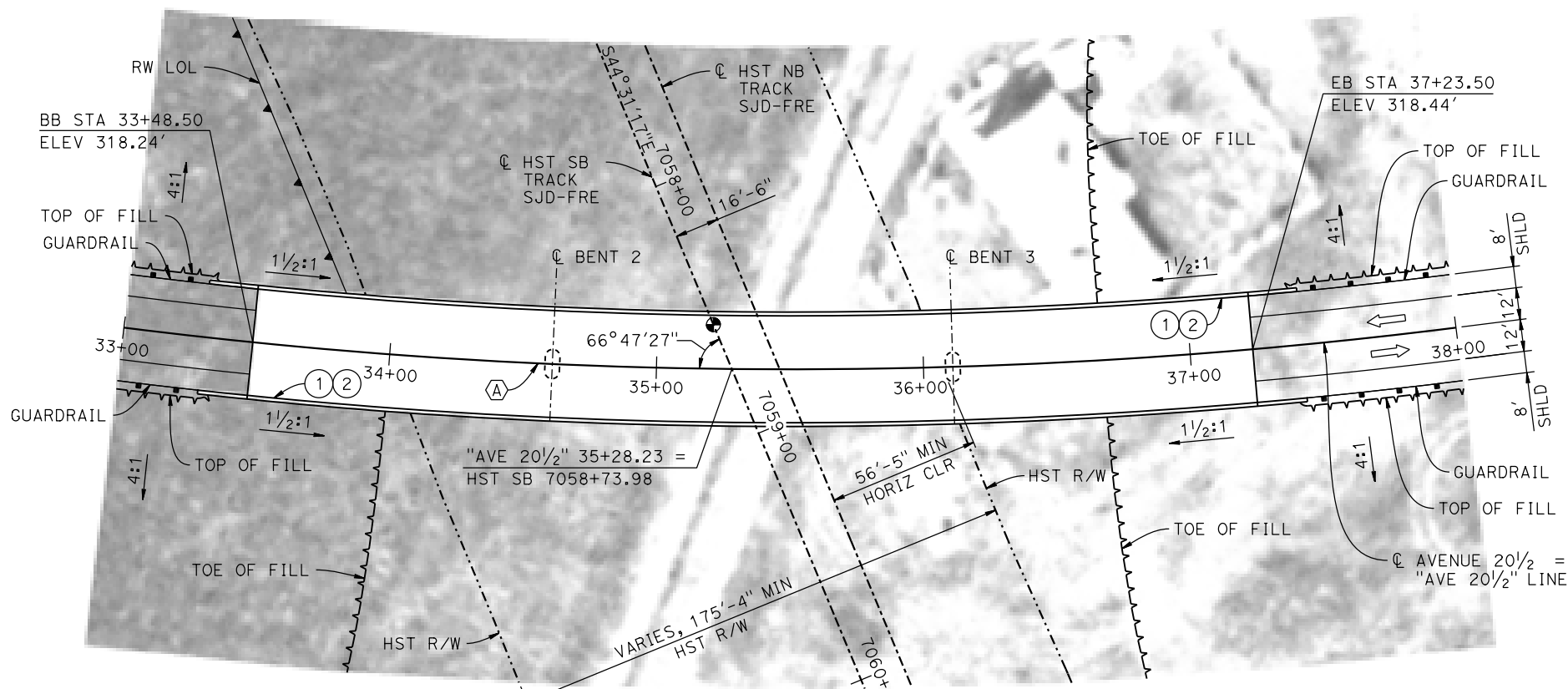
PROFILE GRADE
NO SCALE



DEVELOPED ELEVATION
1"=30'



TYPICAL SECTION
1" = 10'



PLAN
1"=30'

LEGEND:

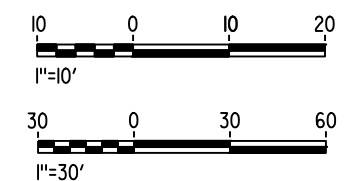
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇨ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "AVENUE 20 1/2 OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1 1/2 H:1 V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

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-S1310-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1310-A.

CURVE NO. 310-01 (A)

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



17-MAR-2016 09:13 MF-ST-K1310-A.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
03/18/2016

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 13 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 AVENUE 20 1/2 OVERHEAD

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1310-A

SCALE
AS SHOWN

SHEET NO.

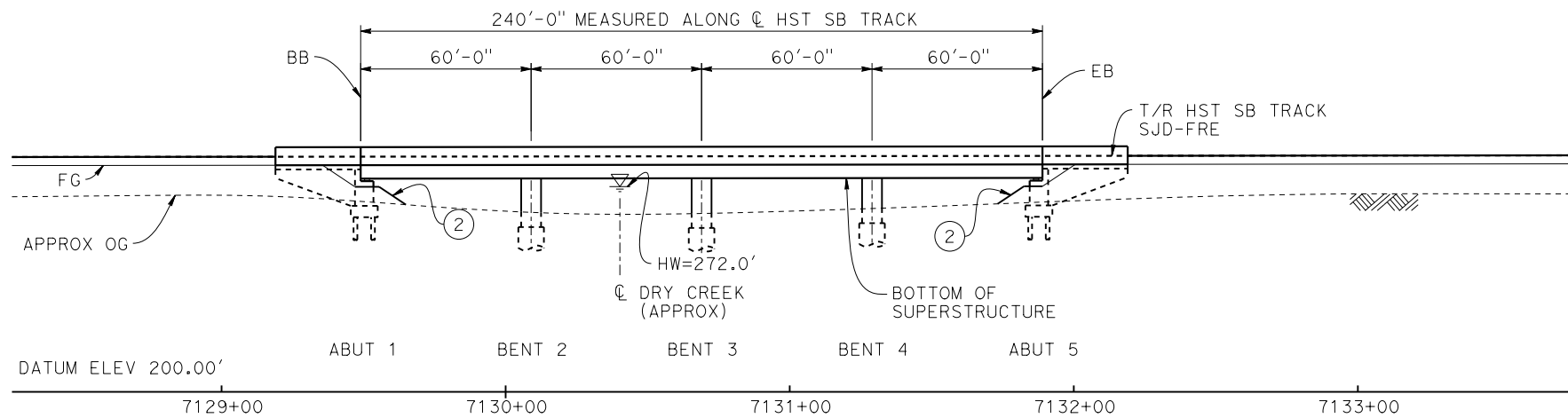
7109+05.86 PVT
ELEV 280.56'

0.11%

7304+00.00 PVC
ELEV 302.17'

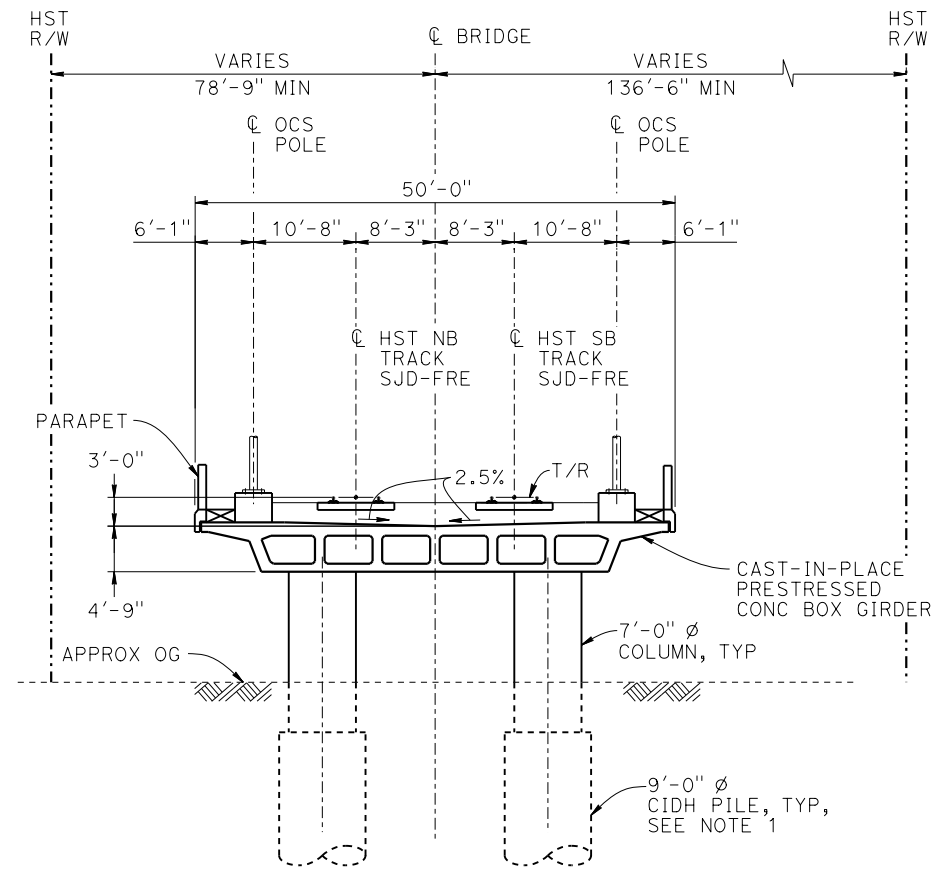
TOP OF RAIL PROFILE (CL HST SB TRACK)

NO SCALE



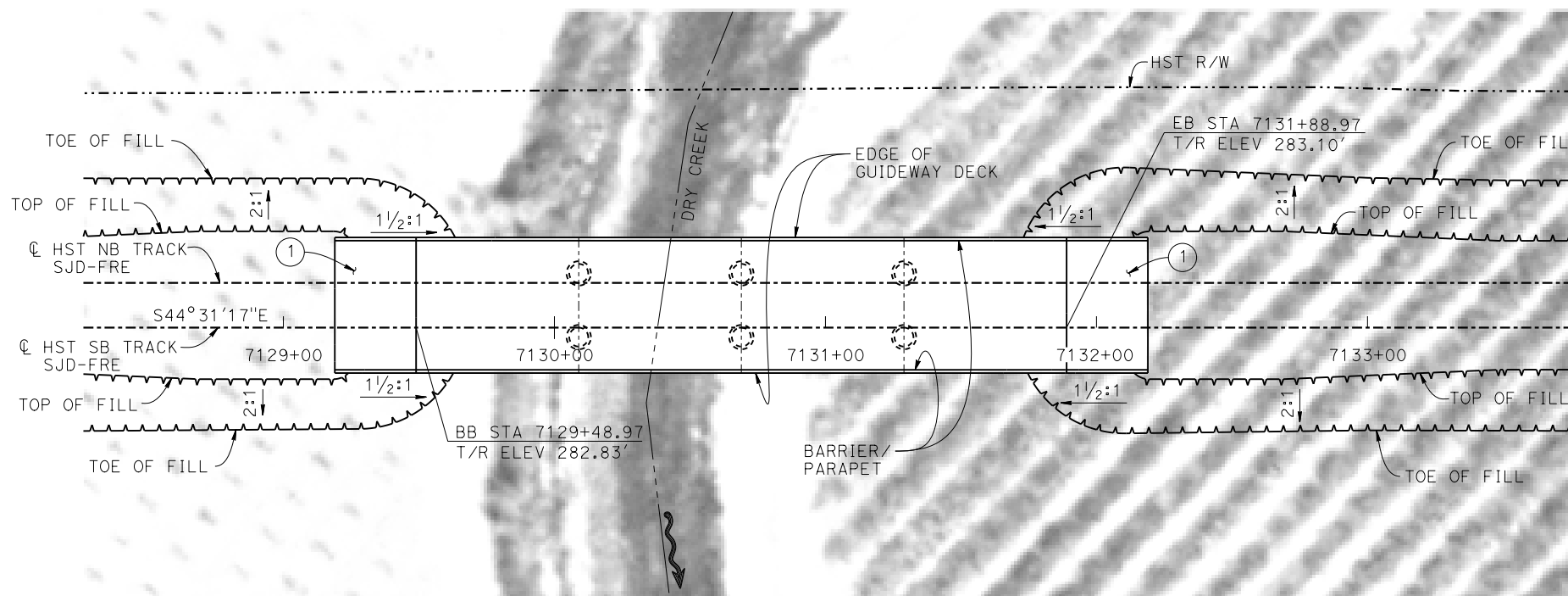
ELEVATION

1" = 30'



TYPICAL SECTION

1" = 10'



PLAN

1" = 30'

LEGEND:

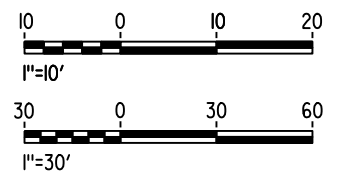
INDICATES DIRECTION OF FLOW

① STRUCTURE APPROACH

② SLOPE PAVING (1 1/2H:1V)

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; DRAWINGS CV-S1320-A AND CV-S1330-A.
- ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.



MF-ST-K1330-A.dgn

10-MAR-2016 5:44

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
03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

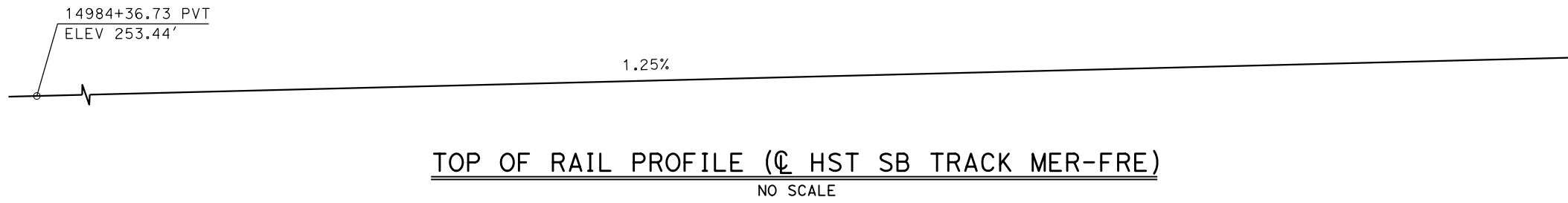
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
DRY CREEK BRIDGE

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1330-A

SCALE
AS SHOWN

SHEET NO.

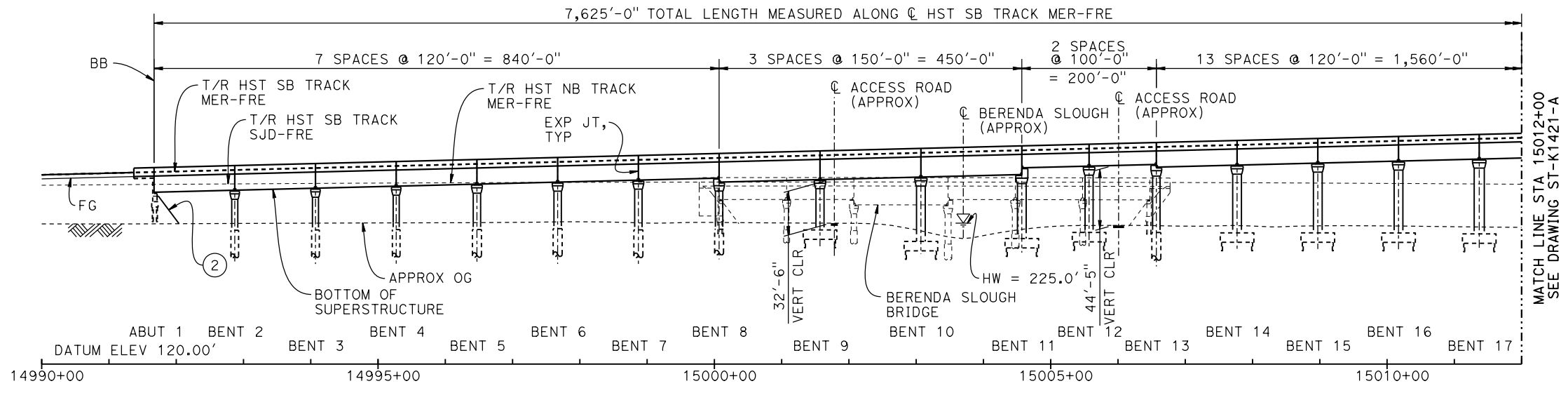


- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ➔ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1½H:1V)

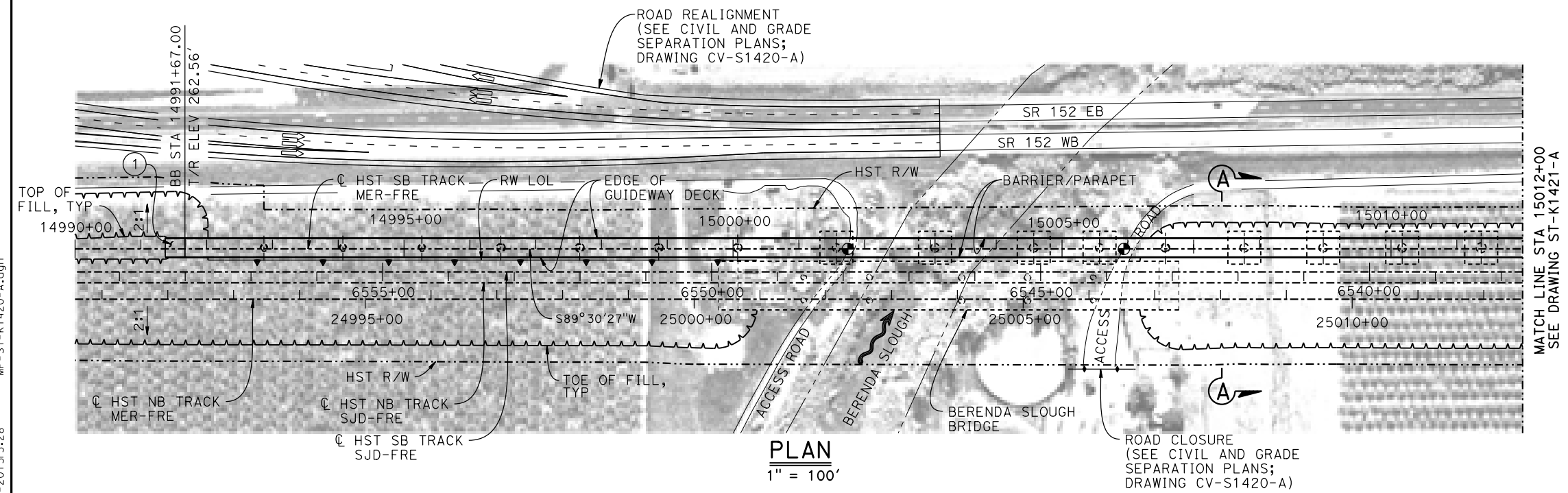
CURVE MER-FRE 1 SB (A)
 R = 10,350.00'
 LS = 1,500.00'

TEMPORARY TRAFFIC OPENINGS

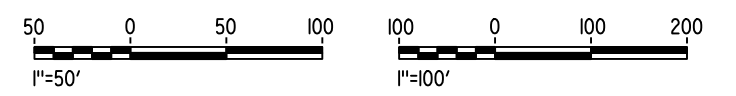
VEHICULAR TRAFFIC			
1. <u> </u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
ACCESS ROAD	15001+80	20'X16.5'	-
ACCESS ROAD	15006+01	20'X16.5'	-
RAILROAD DR	15066+35	20'X16.5'	2-WAY
ACCESS ROAD	15066+75	20'X16.5'	-
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



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



PLAN
 1" = 100'



- 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-A TO ST-K3422-A.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1420-A AND CV-S1430-A.
 - FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1420-A AND CV-S1430-A.
 - FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; SEE DRAWINGS CV-S1420-A AND CV-S1430-A.
 - FOR BERENDA SLOUGH BRIDGE GENERAL PLAN AND TYPICAL SECTION, SEE DRAWINGS ST-K1220-A AND ST-K3220-A.
 - FOR RAILROAD DRIVE UNDERPASS (HST NB) GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1430-A.

06-FEB-2015 15:52:28 MF-ST-K1420-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. MOTHE

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
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (MER-FRE)

AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 1 OF 6

CONTRACT NO.
HSR08-05

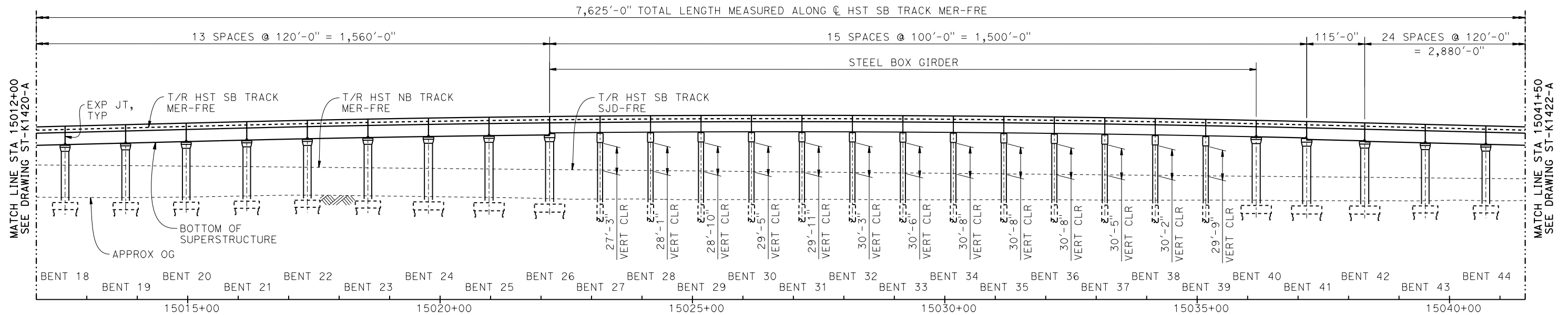
DRAWING NO.
ST-K1420-A

SCALE
AS SHOWN

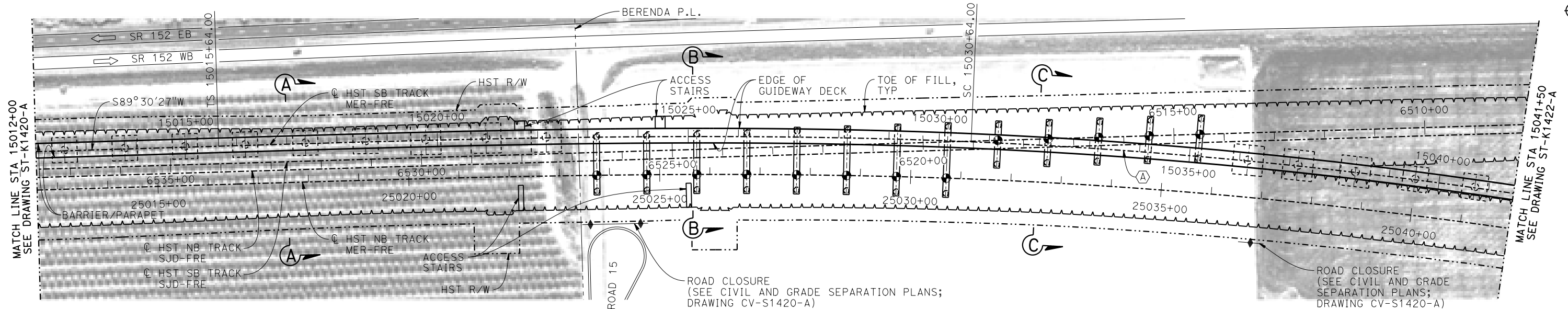
SHEET NO.



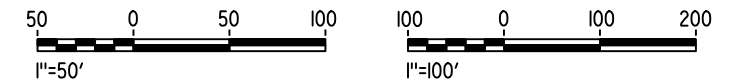
TOP OF RAIL PROFILE (☉ HST SB TRACK MER-FRE)
NO SCALE



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



PLAN
1" = 100'



16-MAR-2016 6:00 MF-ST-K1421-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. MOTHE
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

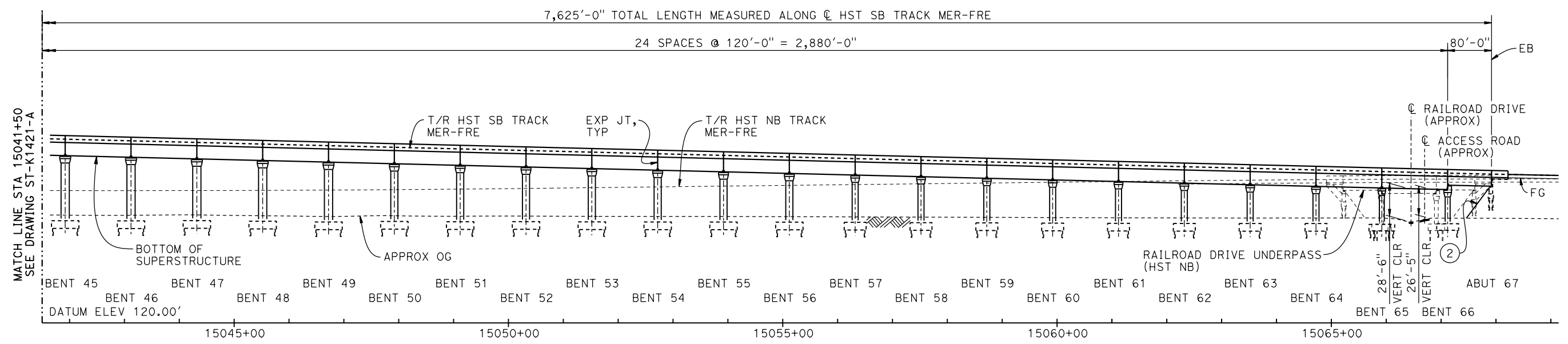
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 2 OF 6

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

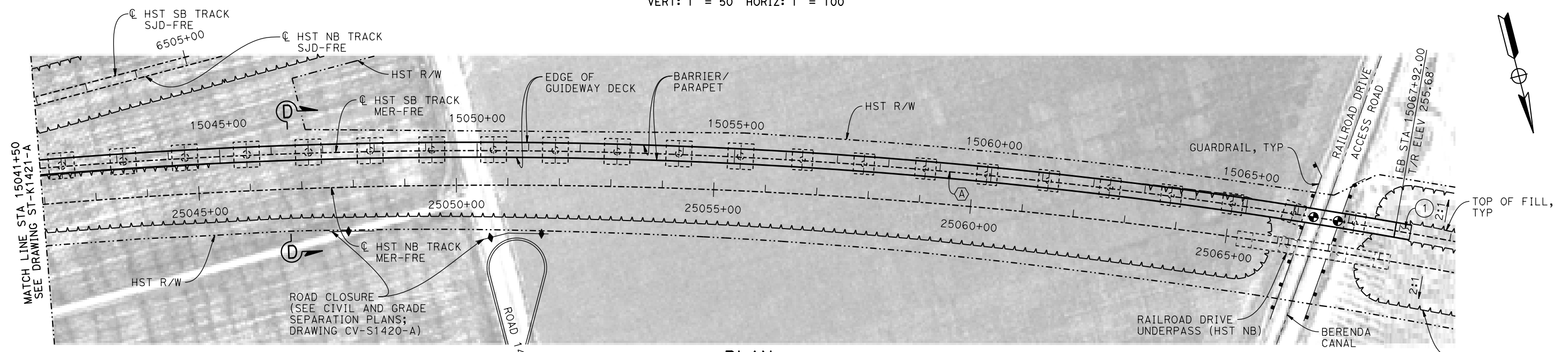
15066+46.41 PVC
ELEV 257.35'
1000.00' VC
R/C=0.109%/STA

-1.23%

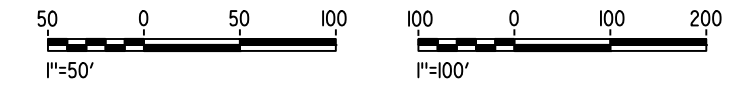
TOP OF RAIL PROFILE (☉ HST SB TRACK MER-FRE)
NO SCALE



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



PLAN
1" = 100'



06-FEB-2015 15:51:29 MF-ST-K1422-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. MOTHE

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

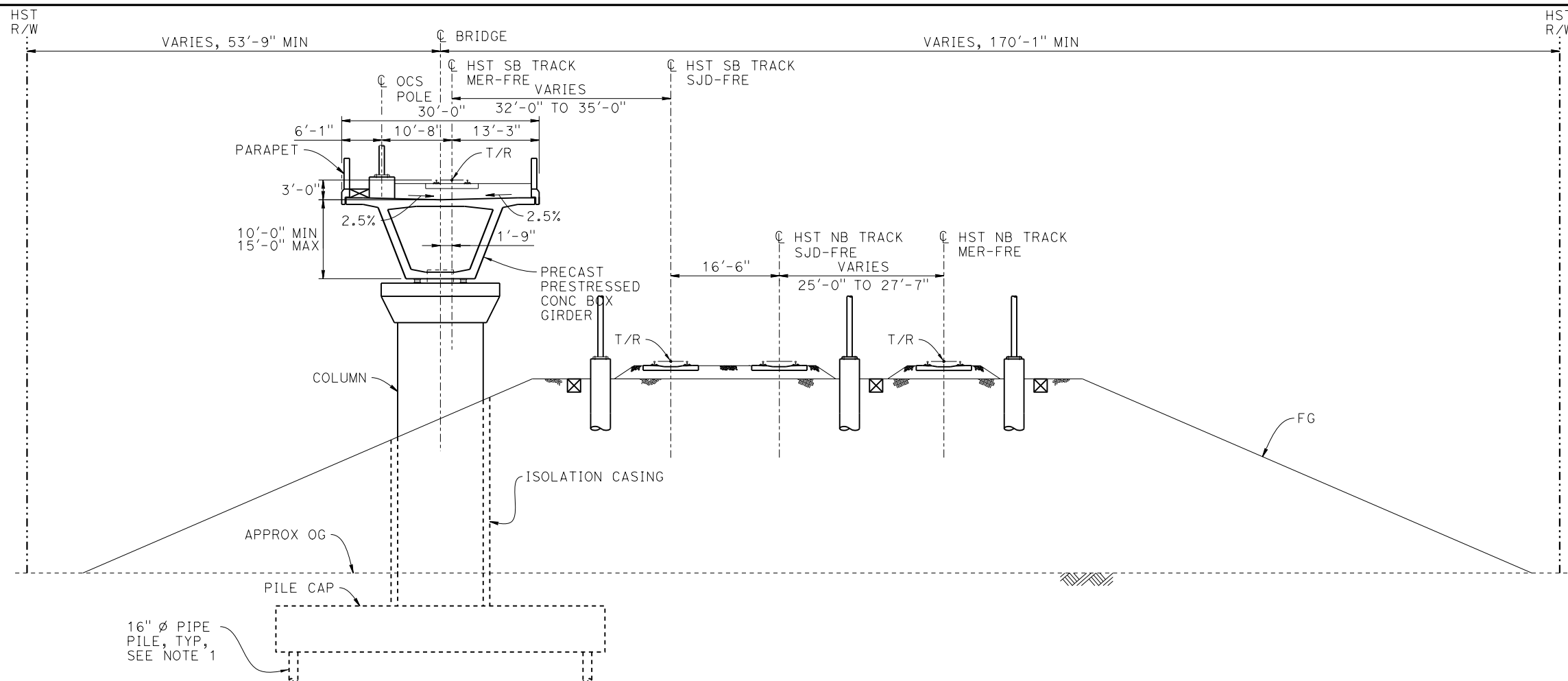
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 3 OF 6

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1422-A

SCALE
AS SHOWN

SHEET NO.



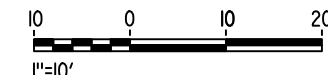
SECTION A-A
1" = 10'

BENT COLUMN SCHEDULE			
BENT	COLUMN TYPE	CIDH TYPE	"A"
2 - 4	9'-0" ϕ	11'-0" ϕ	
5 - 8	11'-0" ϕ	13'-0" ϕ	
9	12'-0" ϕ		
10 - 11	13'-0" ϕ		
12	12'-0" ϕ		
13	11'-0" ϕ	13'-0" ϕ	
14 - 16	13'-0" ϕ		
17 - 23	15'-0" ϕ		
24 - 26	16'-0" ϕ		
27 - 28	2 - 10'-0" ϕ		108'-0"
29	2 - 10'-0" ϕ		110'-0"
30	2 - 10'-0" ϕ		113'-0"

BENT COLUMN SCHEDULE			
BENT	COLUMN TYPE	CIDH TYPE	"A"
31	2 - 10'-0" ϕ		117'-0"
32	2 - 10'-0" ϕ		121'-0"
33	2 - 10'-0" ϕ		127'-0"
34	2 - 10'-0" ϕ		133'-0"
35 - 39	2 - 10'-0" ϕ		78'-0"
40 - 42	16'-0" ϕ		
43 - 49	15'-0" ϕ		
50 - 56	13'-0" ϕ		
57 - 64	11'-0" ϕ		
65 - 66	9'-0" ϕ		

NOTES:

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



16-MAR-2016 16:05 MF-ST-K3420-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

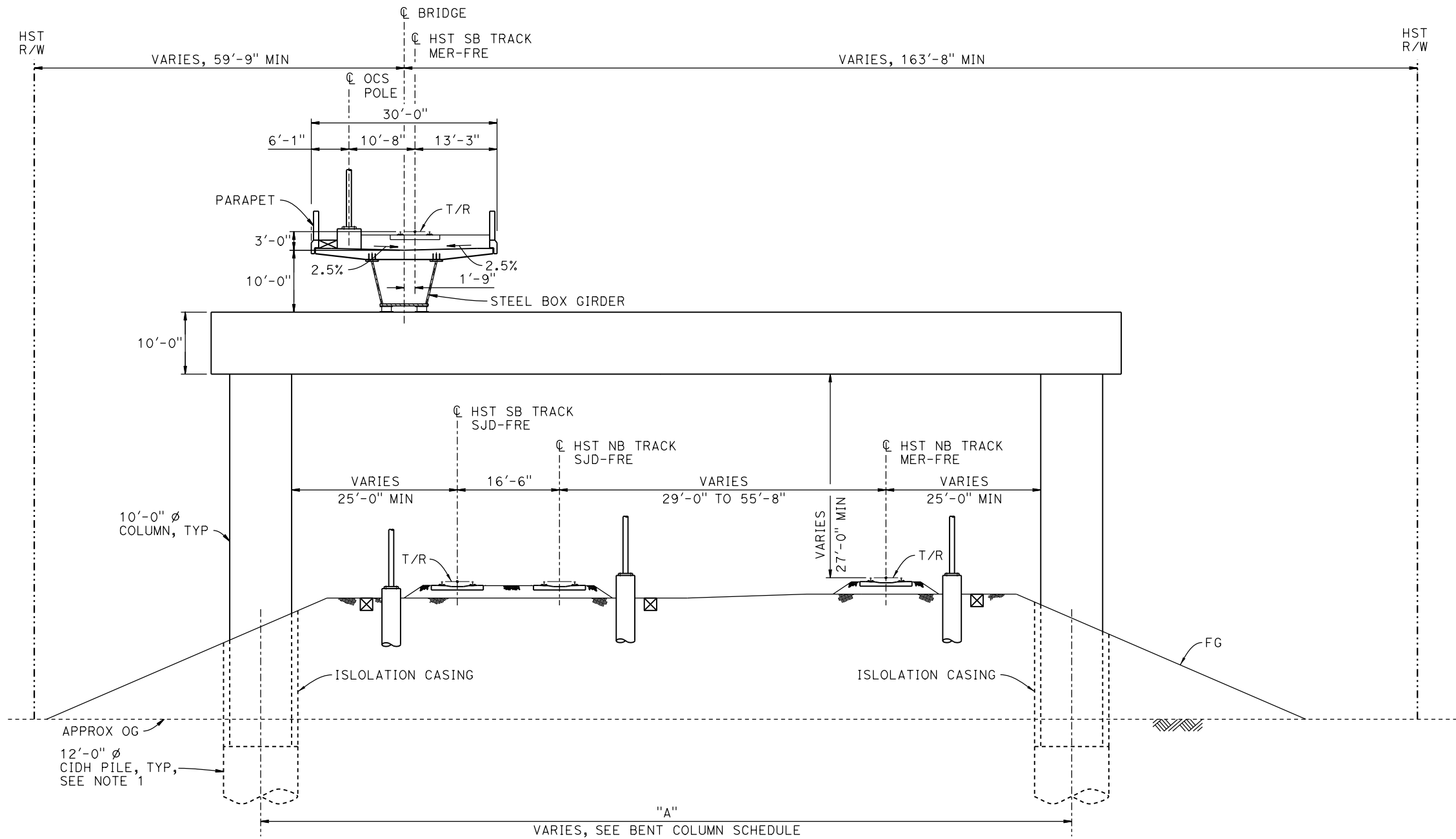
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 4 OF 6

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K3420-A
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-A.



06-FEB-2015 15:51:30 MF-ST-K3421-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

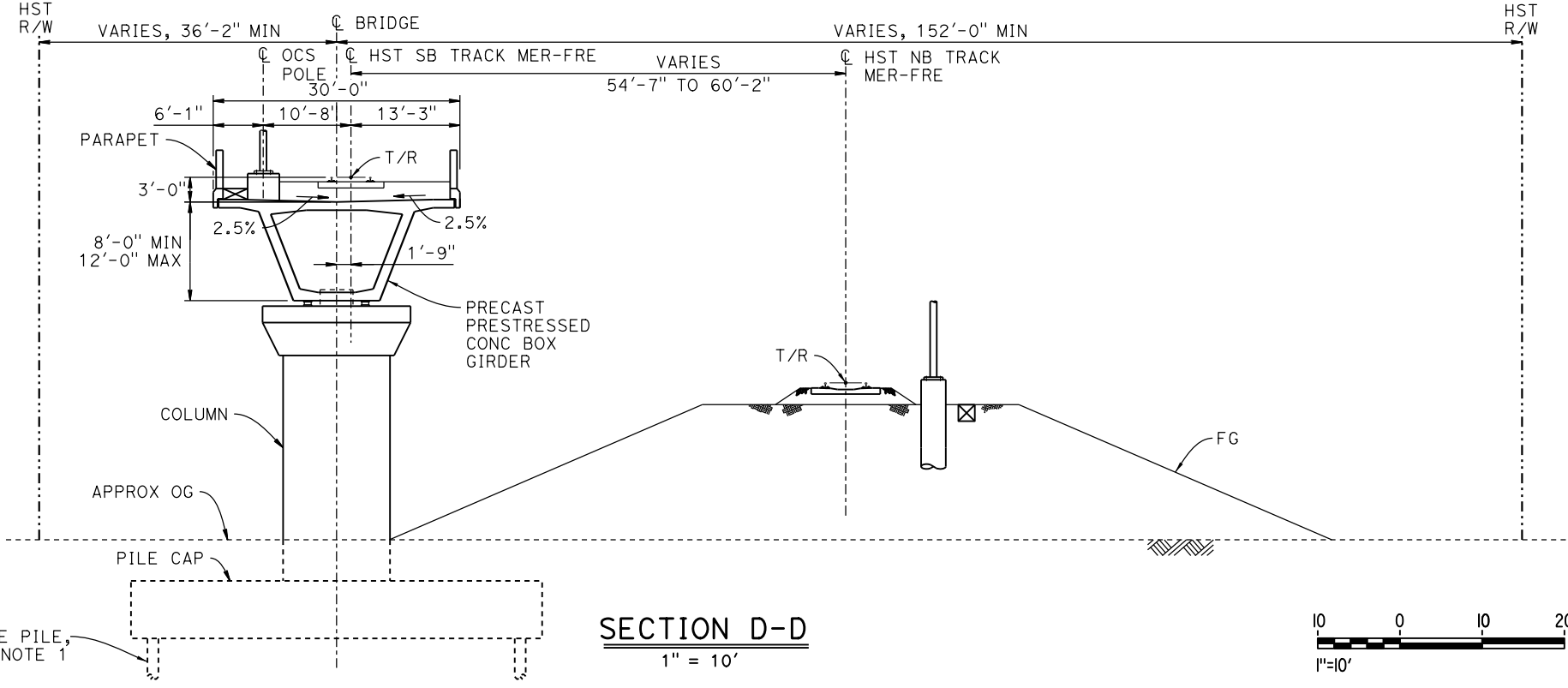
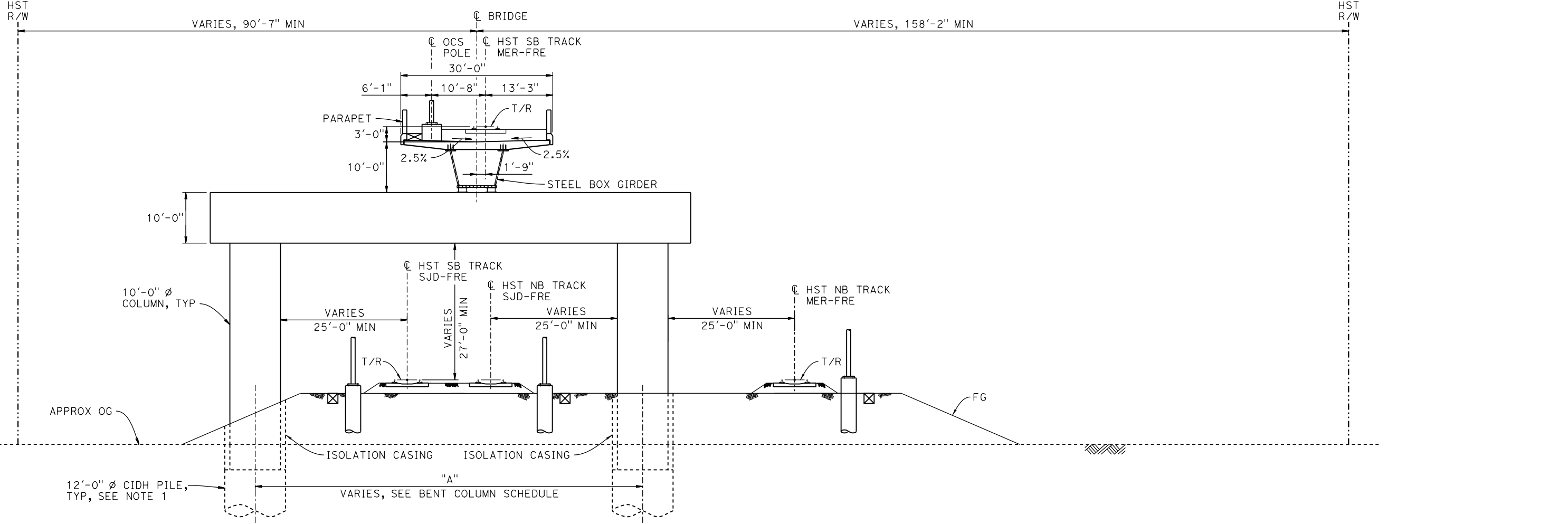
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 5 OF 6

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



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



06-FEB-2015 15:51:30 MF-ST-K3422-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. MOTHE

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

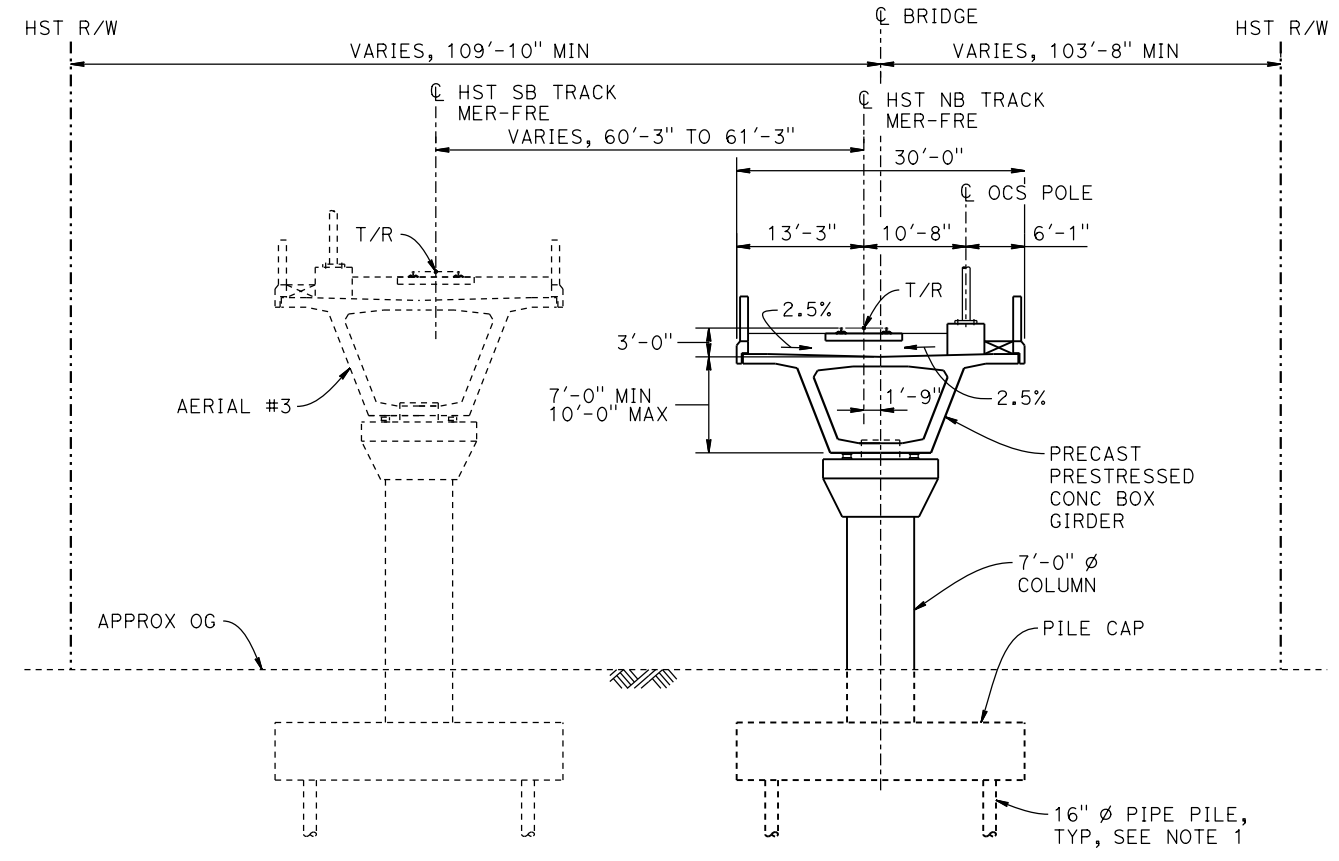
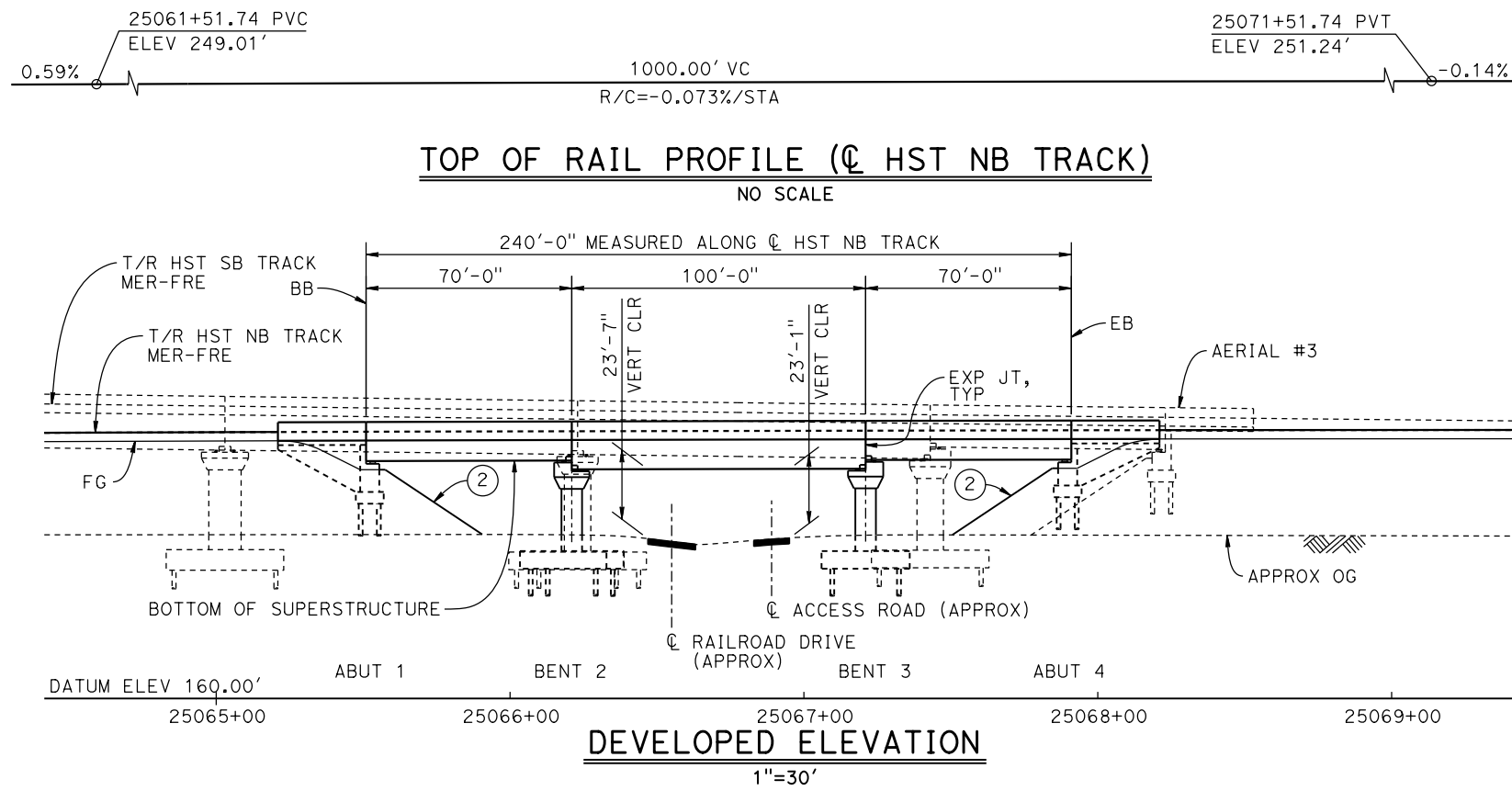
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 6 OF 6

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K3422-A

SCALE
AS SHOWN

SHEET NO.

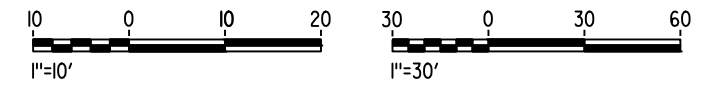
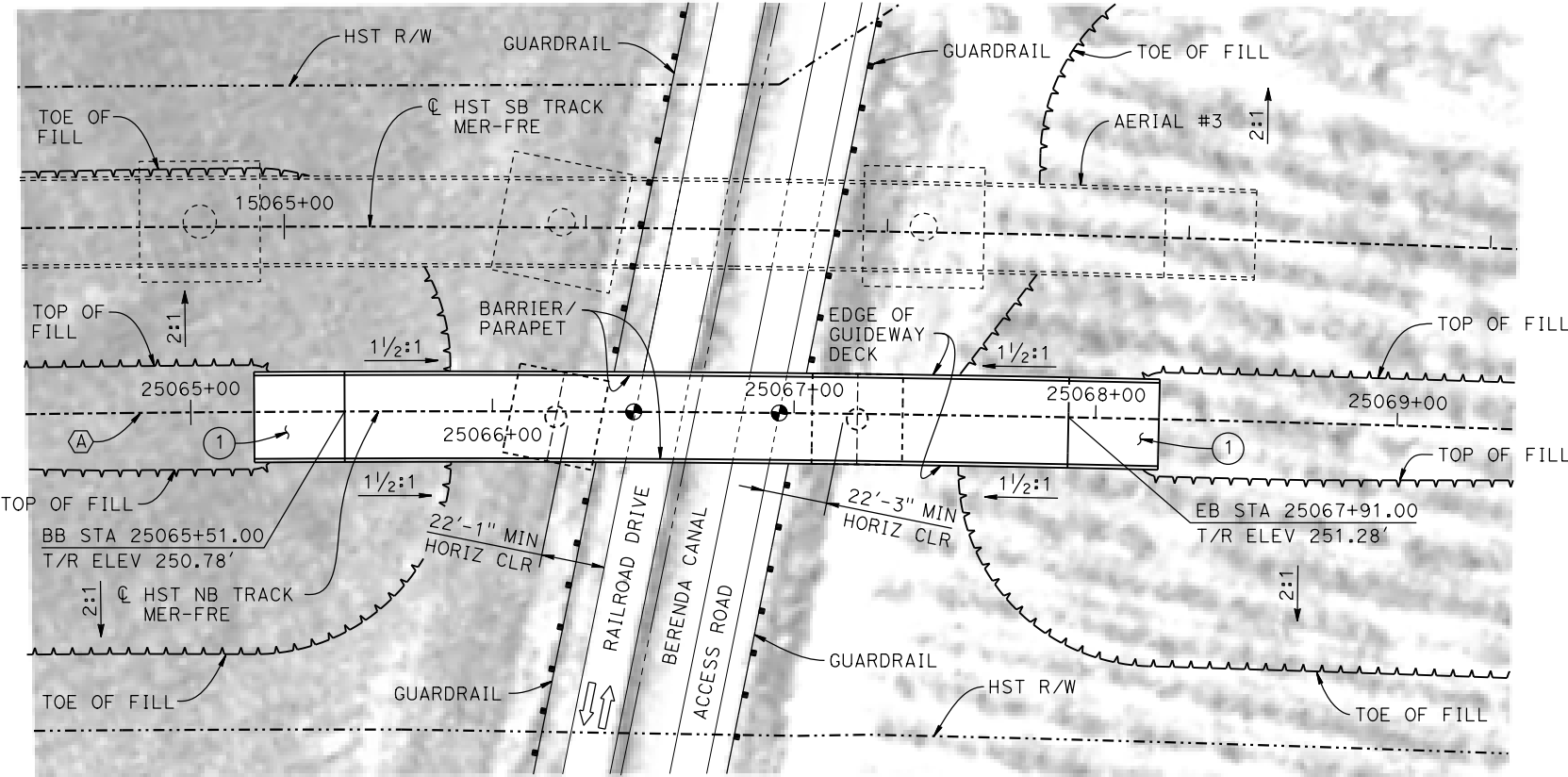


LEGEND:

- ➔ INDICATES DIRECTION OF TRAFFIC
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- 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-S1430-A.
 - FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1430-A.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-BO055-A.
 - FOR AERIAL #3 - SOUTHBOUND OVER HST MAINLINE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1420-A TO ST-K1422-A AND ST-K3420-A TO ST-K3422-A.



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)
RAILROAD DRIVE	25066+55	20'X16.5' 2-WAY
ACCESS ROAD	25066+89	20'X16.5' -
3. <input type="checkbox"/> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.		

06-FEB-2015 16:13 MF-ST-K1430-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. MOTHE

DRAWN BY
R. M.

CHECKED BY
S. J. S.

IN CHARGE
C. LEMLEY

DATE
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



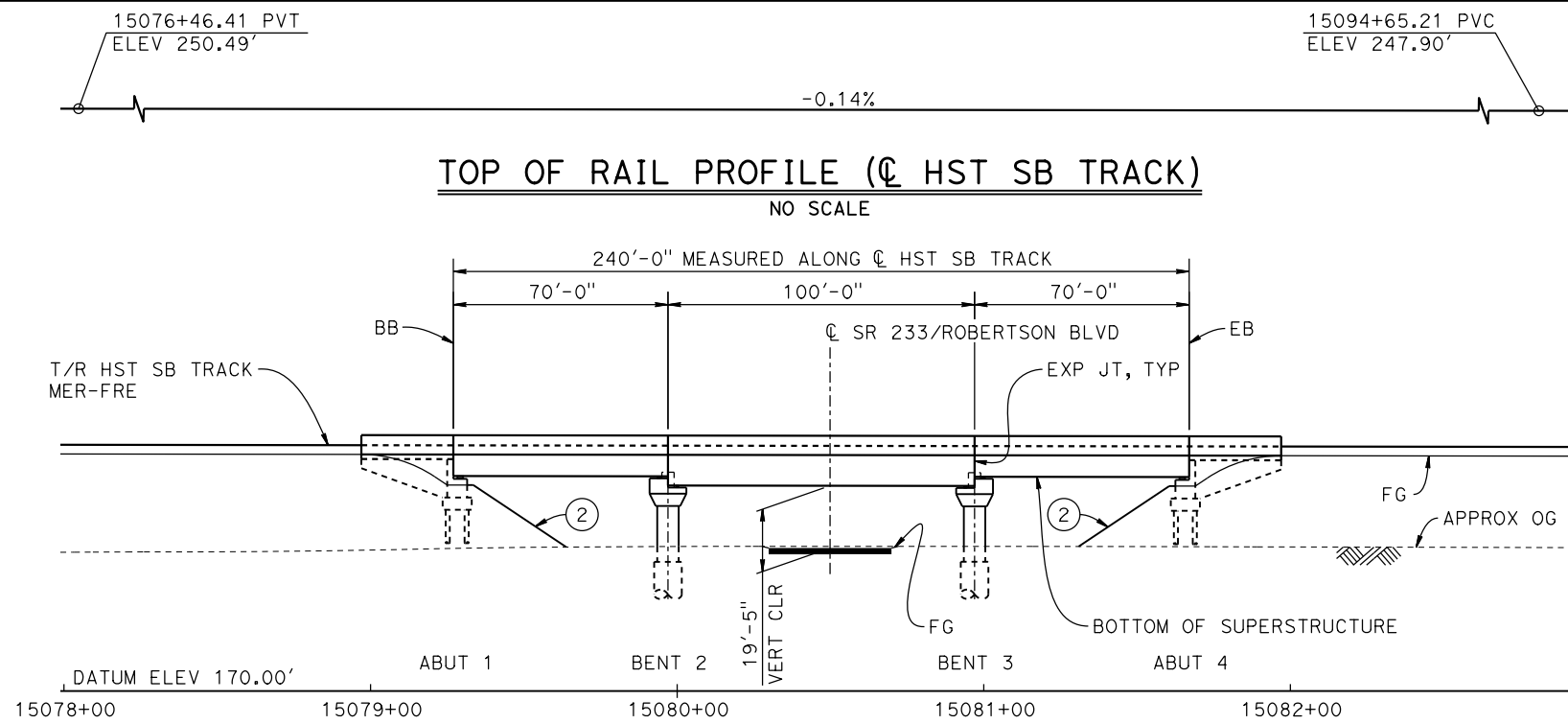
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (MER-FRE)
 RAILROAD DRIVE UNDERPASS (HST NB)

CONTRACT NO.
HSR08-05

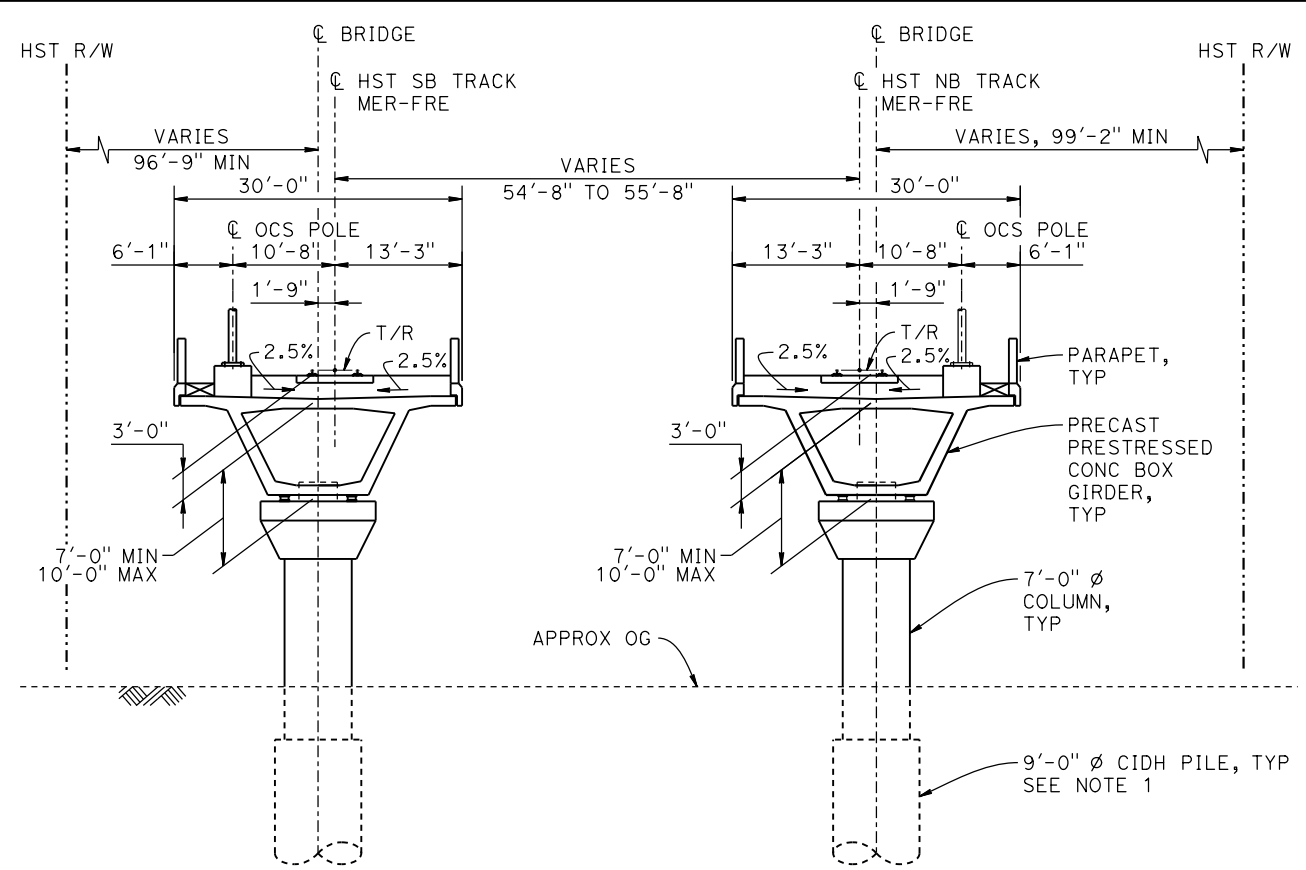
DRAWING NO.
ST-K1430-A

SCALE
AS SHOWN

SHEET NO.



DEVELOPED ELEVATION
(SB BRIDGE SHOWN, NB BRIDGE SIMILAR)



TYPICAL SECTION
1" = 10'

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

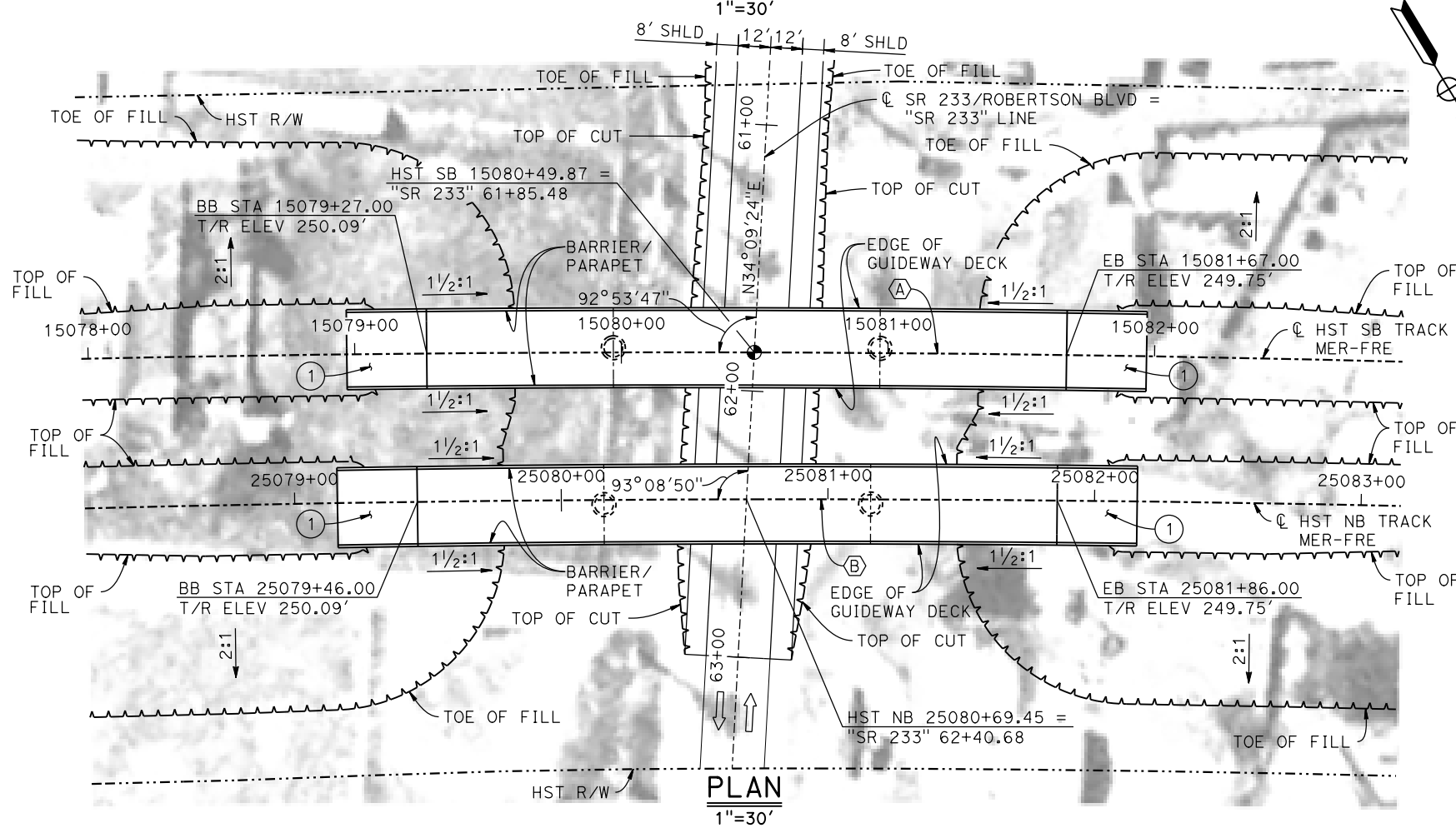
CURVE MER-FRE 1 NB (B)
R = 10,300.00'
LS = 1,500.00'

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

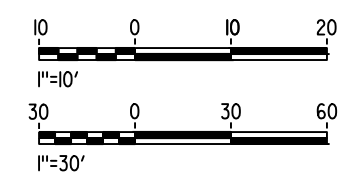
- NOTES:**
1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1430-A.
 3. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0054-A AND TT-B0055-A.

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 233/ROBERTSON BOULEVARD	15080+50	32'X16.5' 2-WAY
3. __ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.		



PLAN
1"=30'



06-FEB-2015 16:13 MF-ST-K1433-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. MOTHE

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

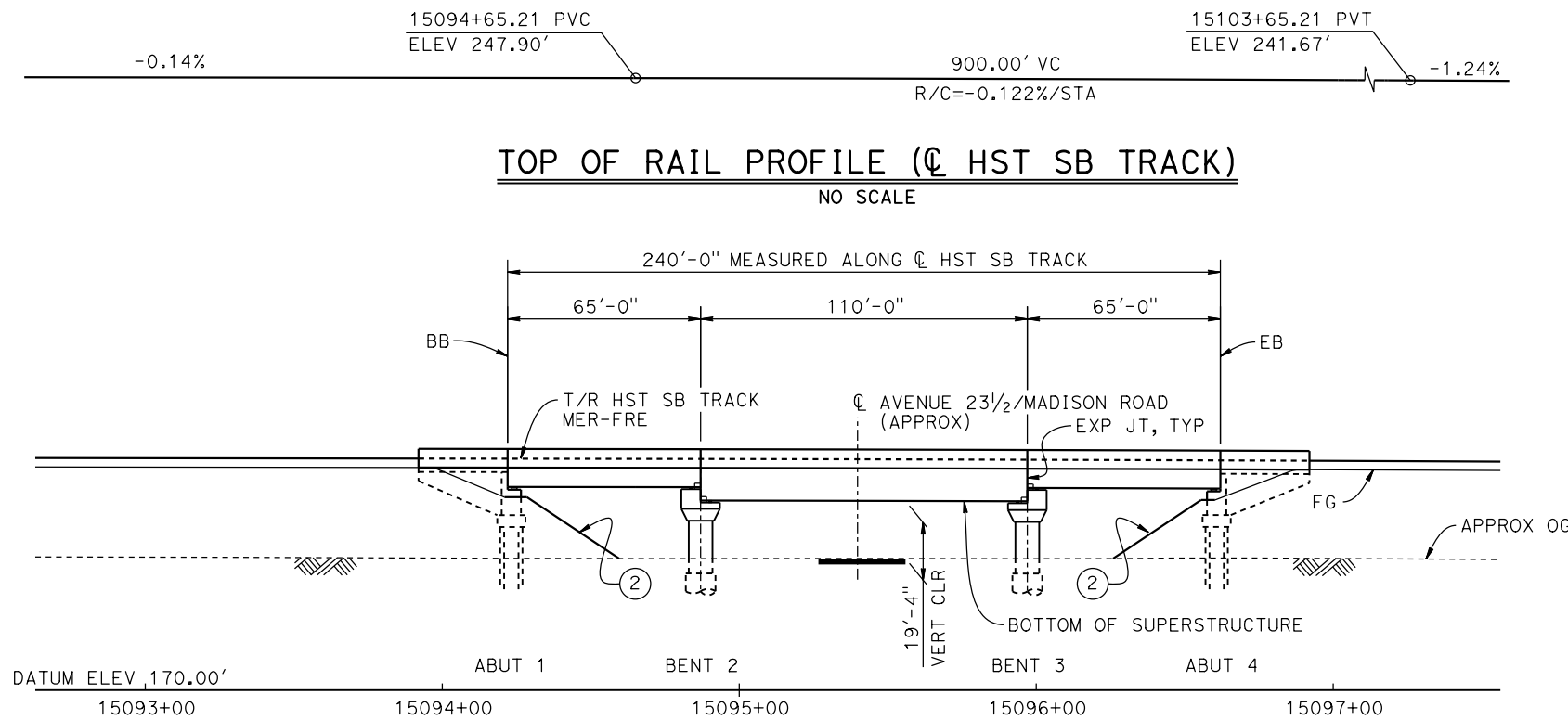
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ROBERTSON BOULEVARD (SR 233) UNDERPASS

CONTRACT NO.
HSR08-05

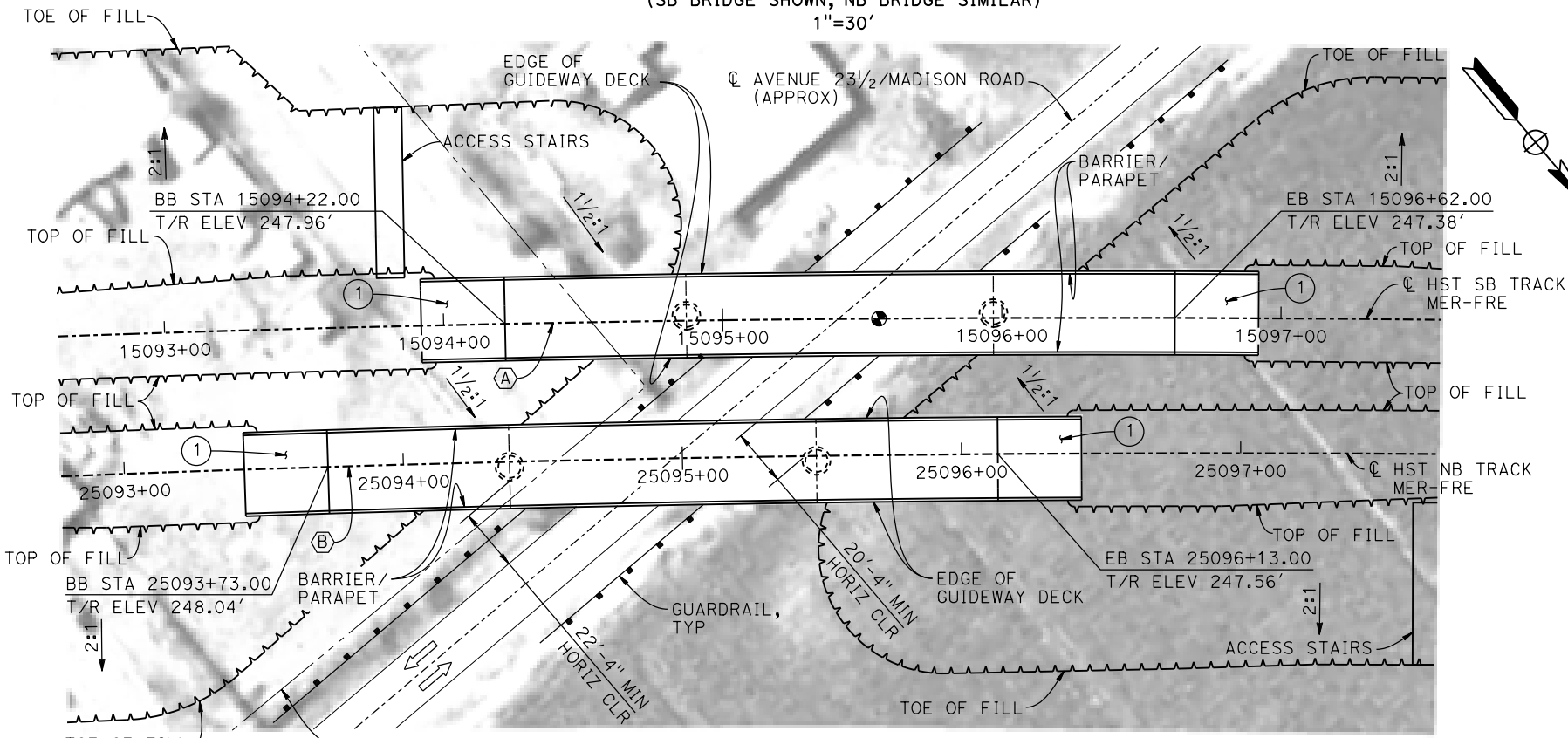
DRAWING NO.
ST-K1433-A

SCALE
AS SHOWN

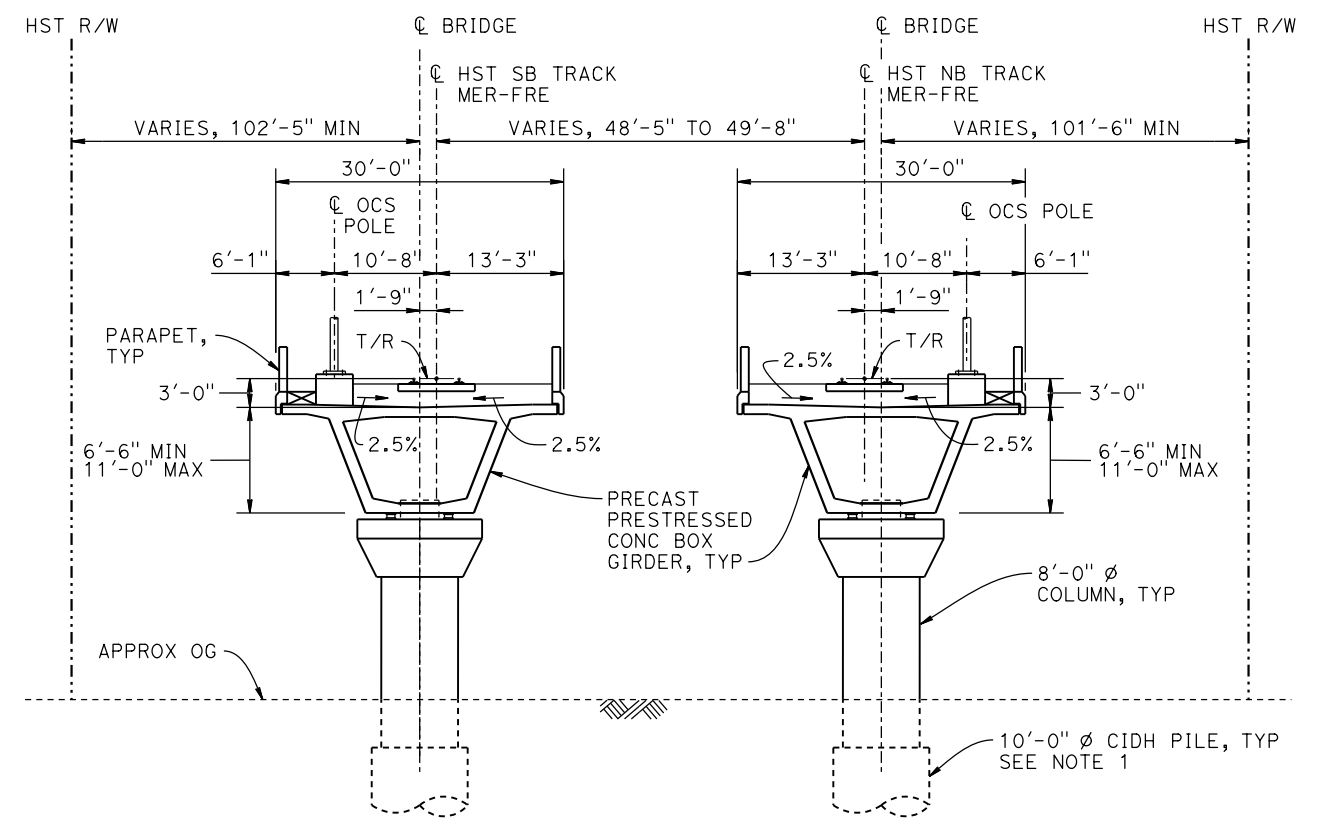
SHEET NO.



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



PLAN
1"=30'



TYPICAL SECTION
1" = 10'

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

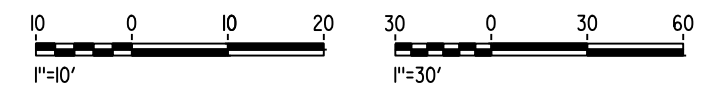
CURVE MER-FRE 1 NB (B)
R = 10,300.00'
LS = 1,500.00'

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	15095+41	32'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 1/2 H:1 V)

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



06-FEB-2015 16:14 MF-ST-K1436-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R.P.M.

DRAWN BY
R. M.

CHECKED BY
S. J. S.

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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
MADISON ROAD (AVENUE 23 1/2) UNDERPASS

CONTRACT NO.
HSR08-05

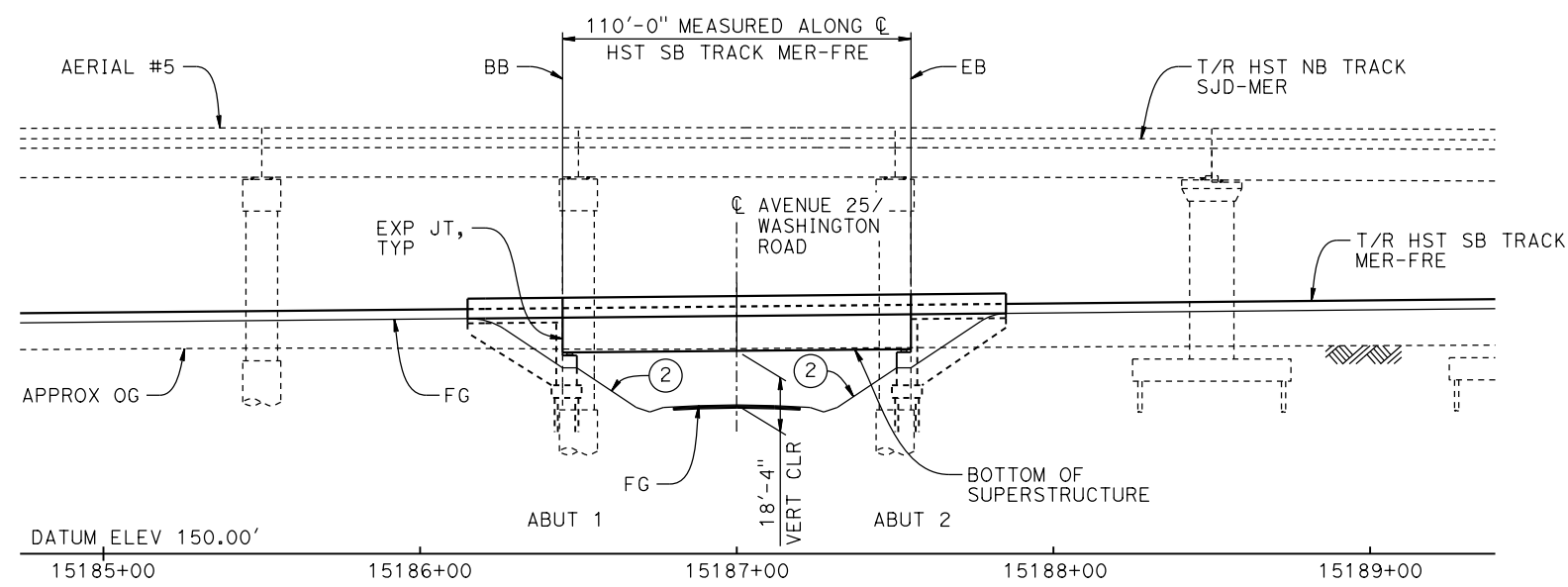
DRAWING NO.
ST-K1436-A

SCALE
AS SHOWN

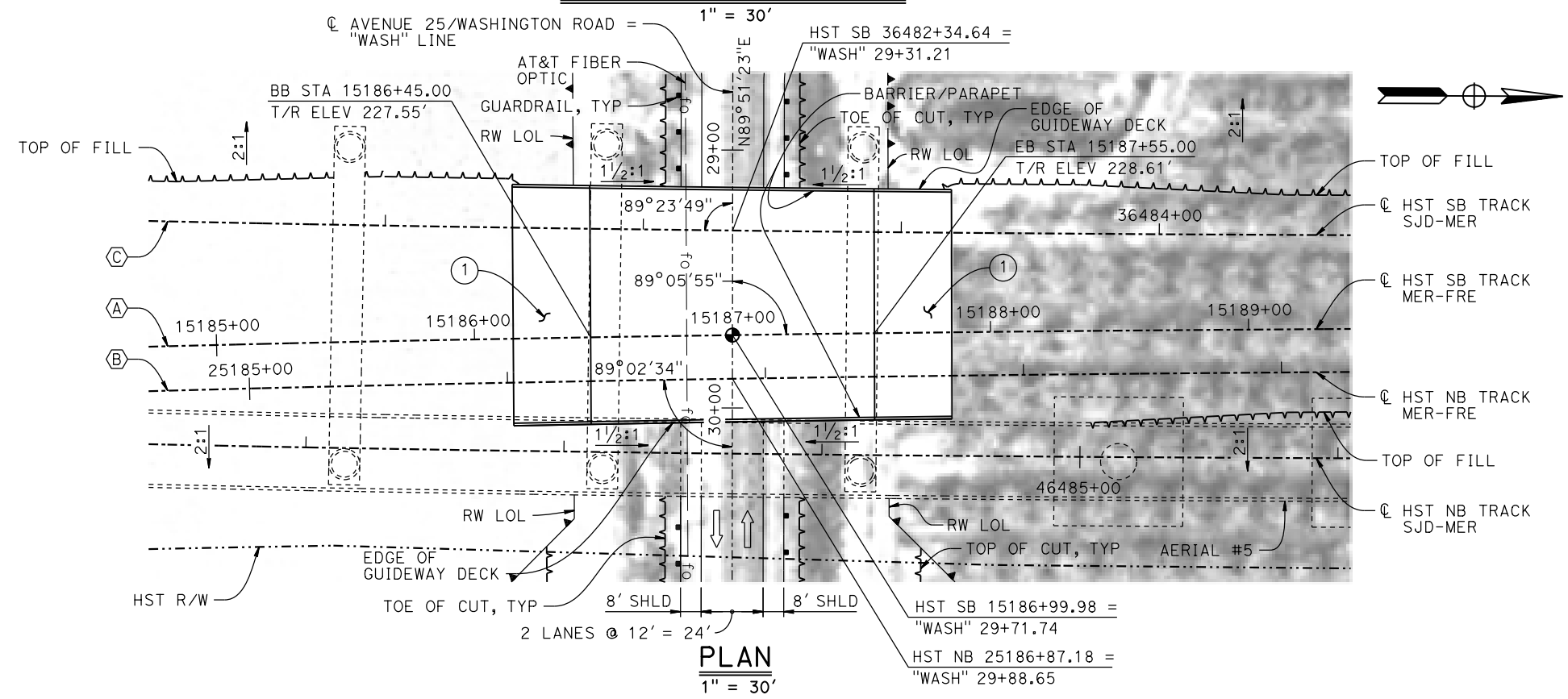
SHEET NO.



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



DEVELOPED ELEVATION



PLAN
1" = 30'

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:			
STREET OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ x VERT)		
AVENUE 25/WASHINGTON ROAD	15187+00	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 SLOPE PAVING (1 1/2 H:1 V)

NOTES:

1. 16"Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR TYPICAL SECTION, SEE DRAWING ST-K3450-A.
3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-A.
4. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-A.
5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-A.
6. FOR AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1650-A TO ST-K1652-A, ST-K3650-A AND ST-K3651-A.

CURVE MER-FRE 1 SB (A)

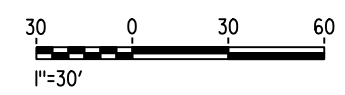
R = 10,350.00'
LS = 1,500.00'

CURVE MER-FRE 1 NB (B)

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

CURVE SJD-MER 1 SB (C)

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



06-FEB-2015 15:17:34 MF-ST-K1450-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. M.
DRAWN BY
S. HICKS
CHECKED BY
S. J. S.
IN CHARGE
C. LEMLEY
DATE
02/13/2015

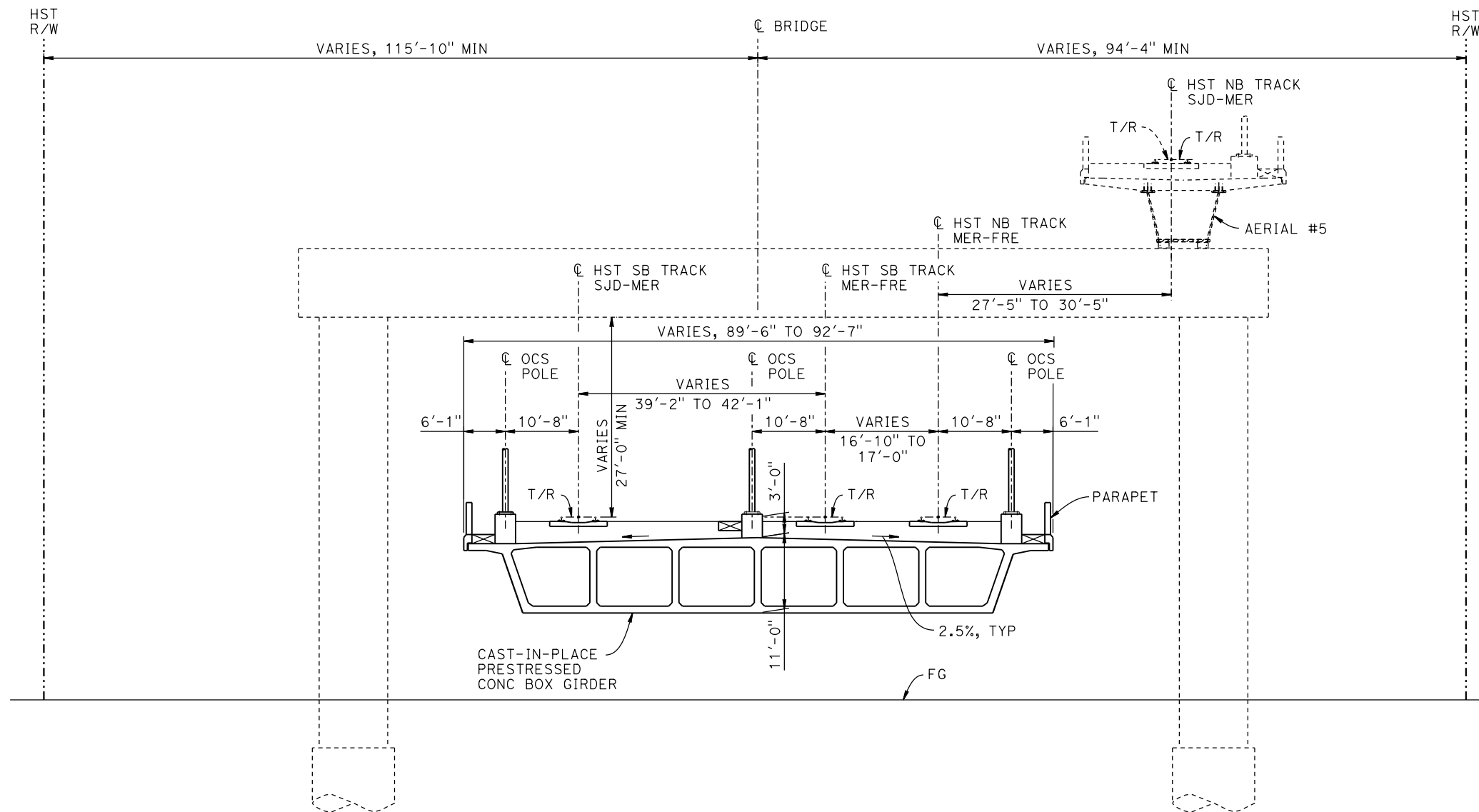
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



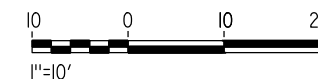
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
WASHINGTON ROAD (AVENUE 25) UNDERPASS - 1 OF 2

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



TYPICAL SECTION
1"=10'

- NOTES:**
1. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0054-A TO TT-B0056-A.



06-FEB-2015 17:35 MF-ST-K3450-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. M.

DRAWN BY
S. HICKS

CHECKED BY
S. J. S.

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

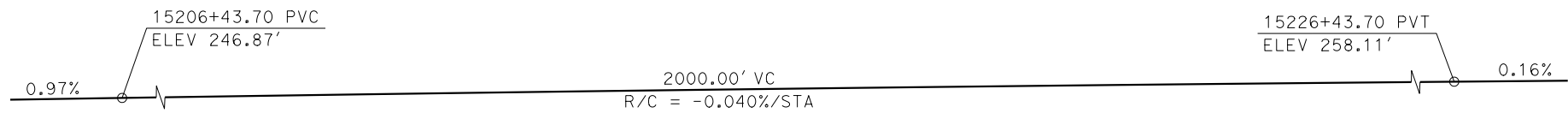
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
WASHINGTON ROAD (AVENUE 25) UNDERPASS - 2 OF 2

CONTRACT NO.
HSR08-05

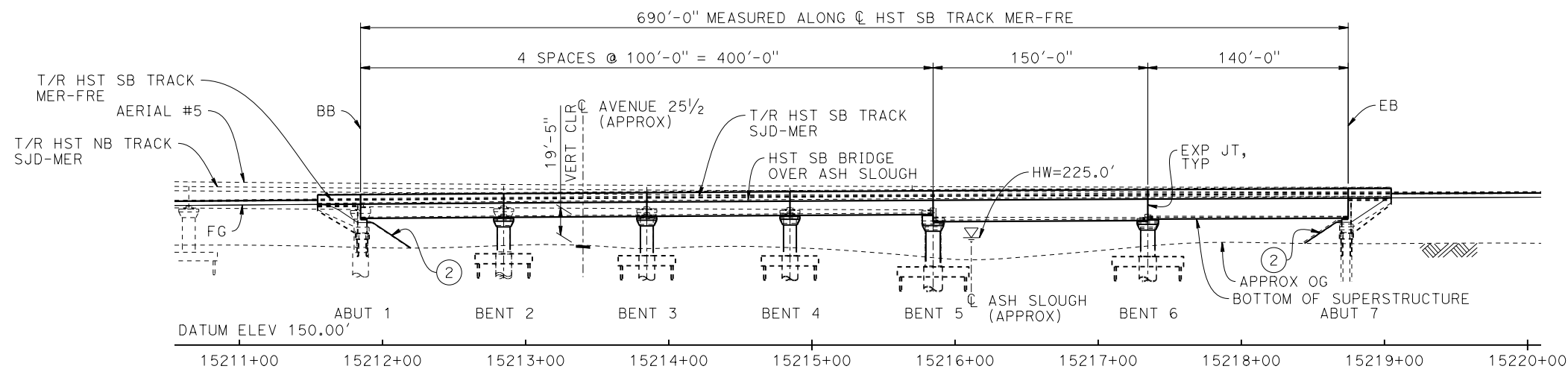
DRAWING NO.
ST-K3450-A

SCALE
AS SHOWN

SHEET NO.



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



ELEVATION
1" = 50'

TEMPORARY TRAFFIC OPENINGS

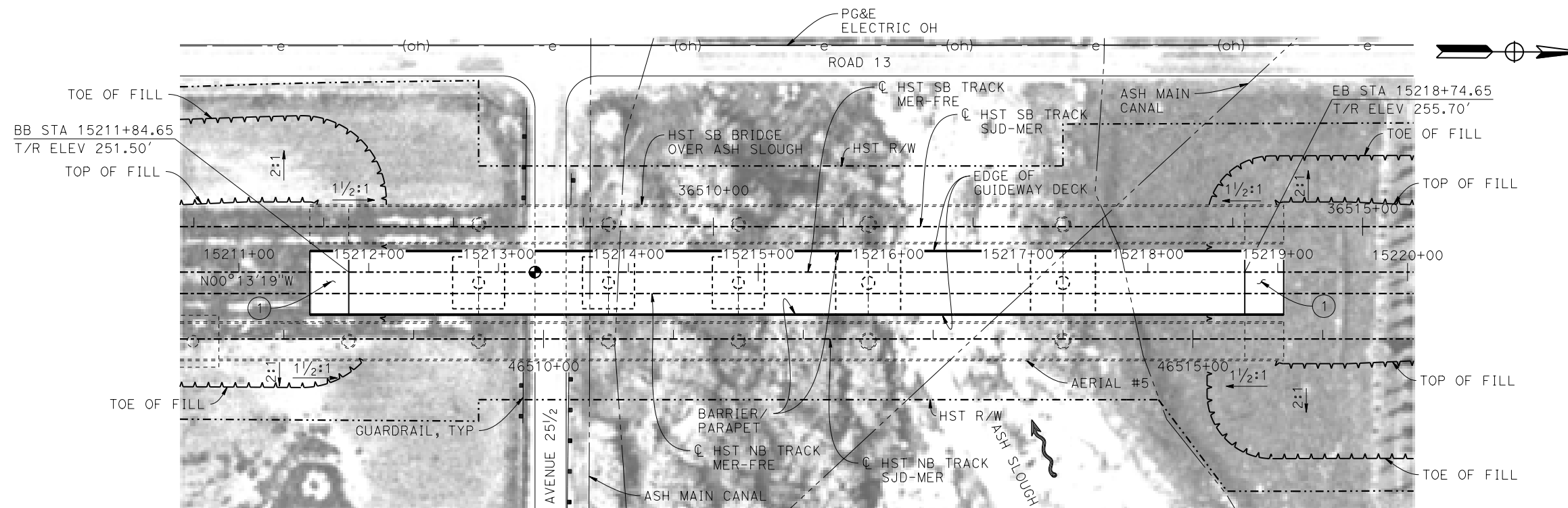
VEHICULAR TRAFFIC		
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.		
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:		
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)	
AVENUE 25 1/2 15213+38	32'X16.5' 2-WAY	
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.		

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 AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3455-A.
3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-A.
4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-A.
5. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
6. FOR AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1650-A TO ST-K1652-A, ST-K3650-A, AND ST-K3651-A.
7. FOR HST SB BRIDGE OVER ASH SLOUGH GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1655-A AND ST-K3655-A.



PLAN
1" = 50'



16-MAR-2016 6:01 MF-ST-K1455-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

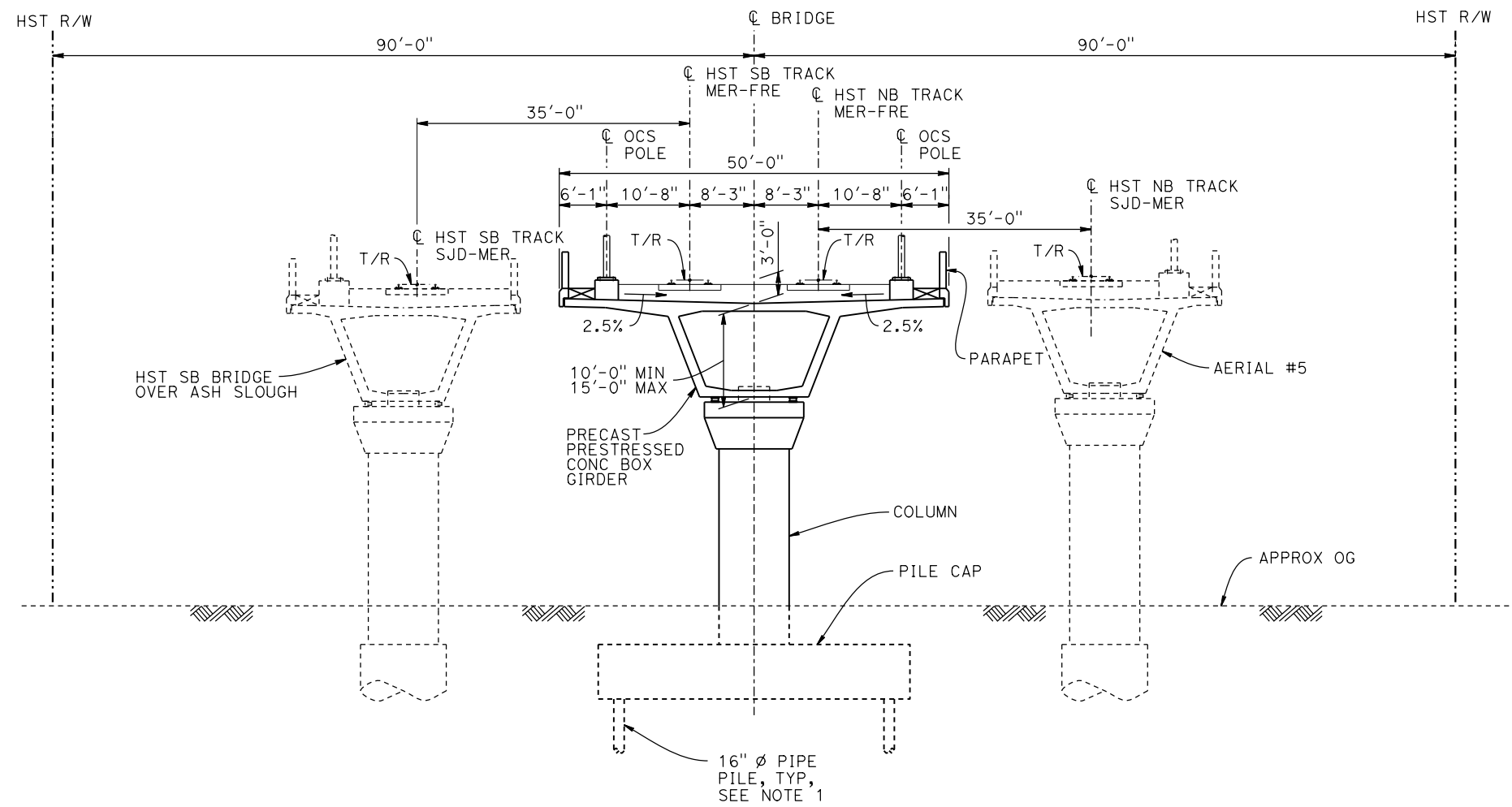
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ASH SLOUGH BRIDGE - 1 OF 2

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



BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2 - 4	9'-0" Ø
5 - 6	10'-0" Ø

NOTES:
 1. PILE LENGTHS TO BE DETERMINED.

TYPICAL SECTION
 1" = 10'



06-FEB-2015 15:45 MF-ST-K3455-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

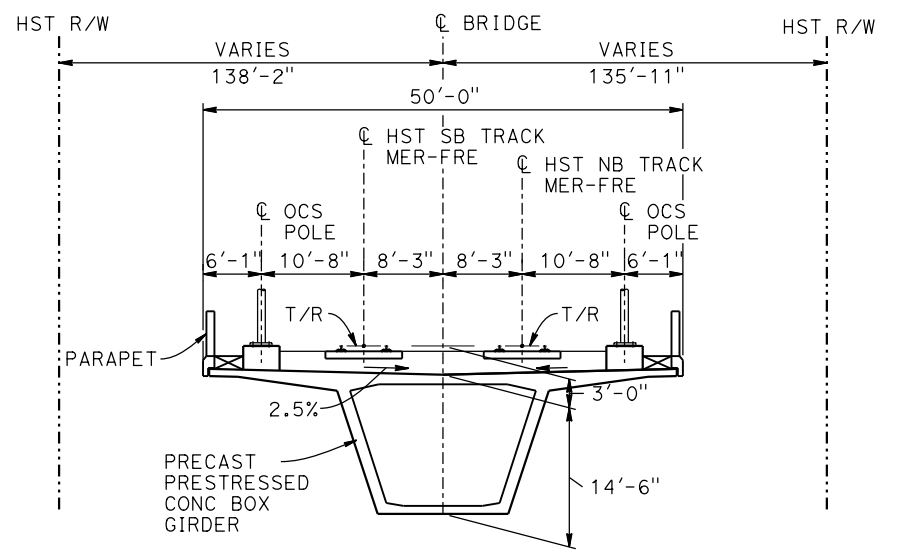
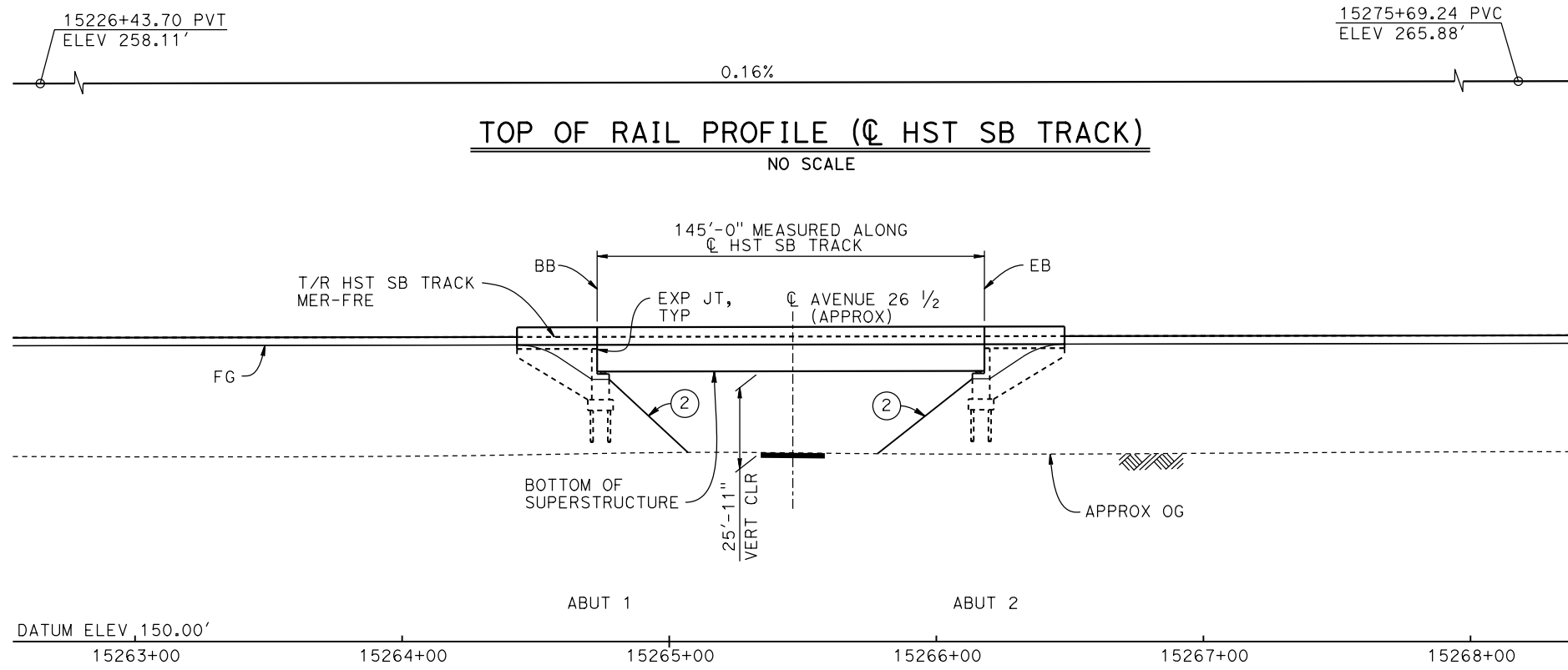
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

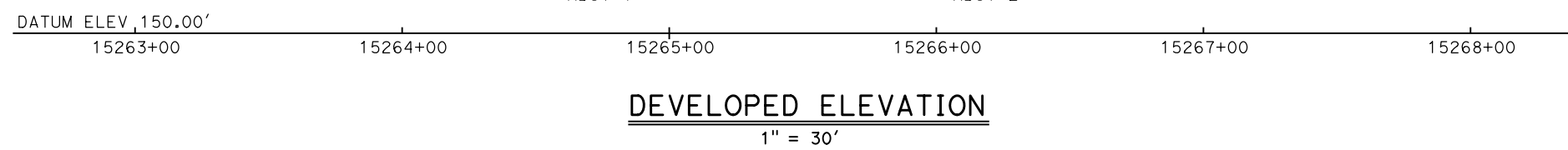


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 TYPICAL SECTION (MER-FRE)
 ASH SLOUGH BRIDGE - 2 OF 2

CONTRACT NO.
HSR08-05
 DRAWING NO.
ST-K3455-A
 SCALE
AS SHOWN
 SHEET NO.

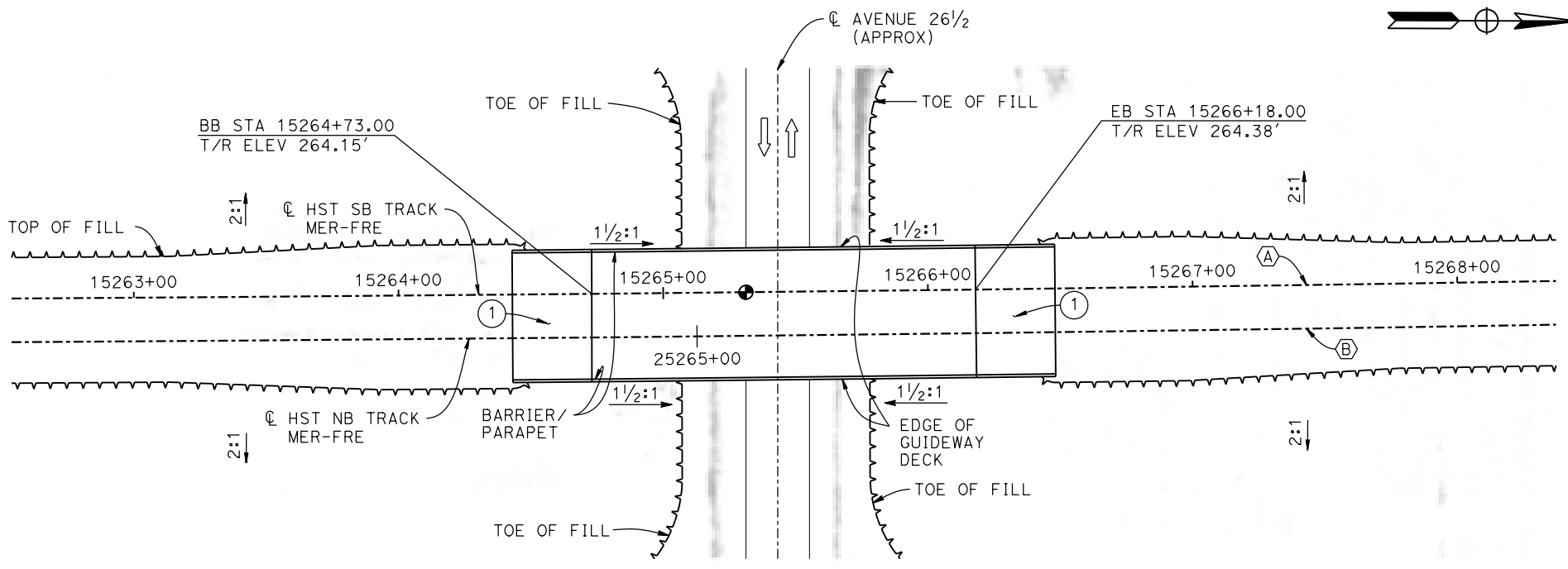


TYPICAL SECTION
1" = 10'



TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
1. _ 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 26 1/2	15265+45	32'X16.5'	2-WAY
3. _ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



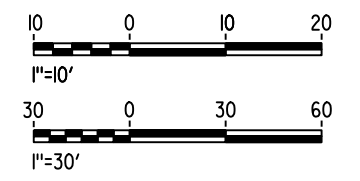
LEGEND:

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

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1460-A.
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-A AND TT-B0055-A.

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'



PLAN
1" = 30'

06-FEB-2015 16:15 MF-ST-K1460-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

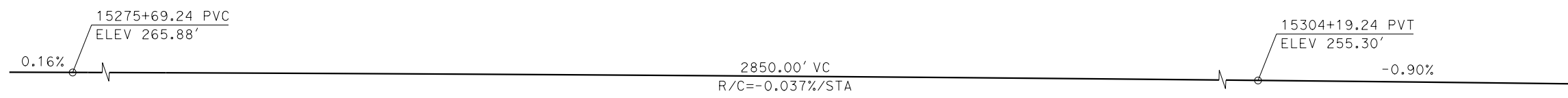
RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

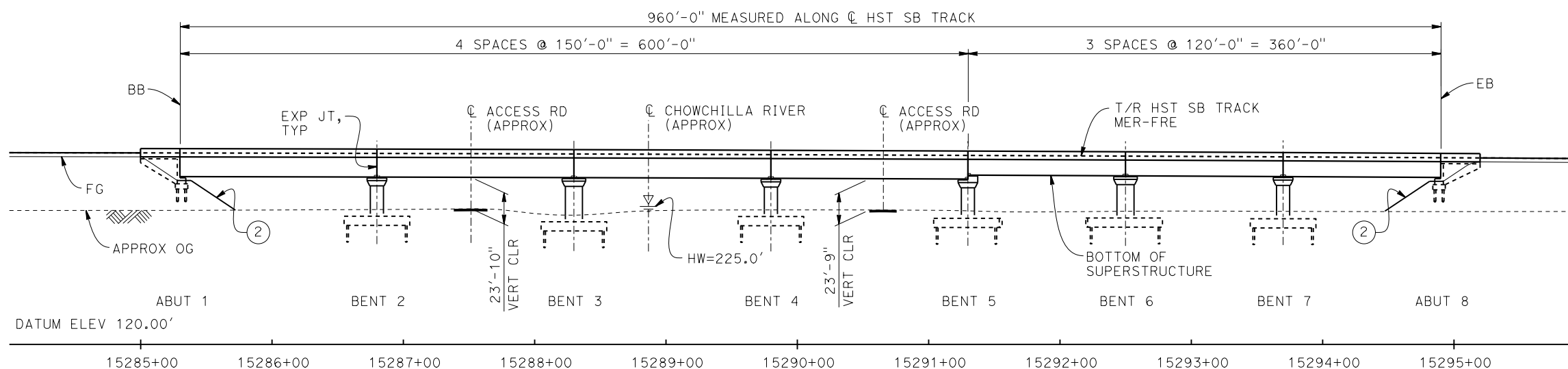


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (MER-FRE)
 AVENUE 26 1/2 UNDERPASS

CONTRACT NO.
HSR08-05
 DRAWING NO.
ST-K1460-A
 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 (1 1/2 H:1 V)

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'

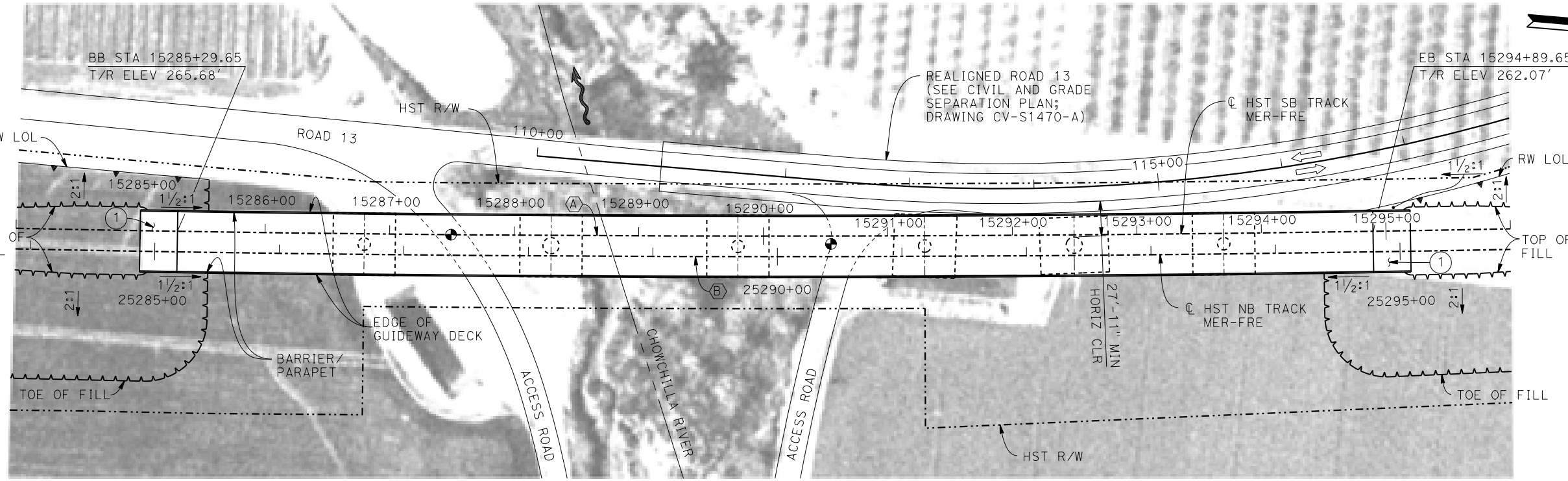
TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

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

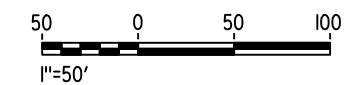
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING RECD (HORIZ X VERT)
ACCESS ROAD 15287+38	20'X16.5' -
ACCESS ROAD 15290+66	20'X16.5' -

- 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-K3470-A.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1470-A.
 - FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1470-A.

PLAN
1" = 50'



16-MAR-2016 6:01 MF-ST-K1470-A.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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CHOWCHILLA RIVER BRIDGE - 1 OF 2

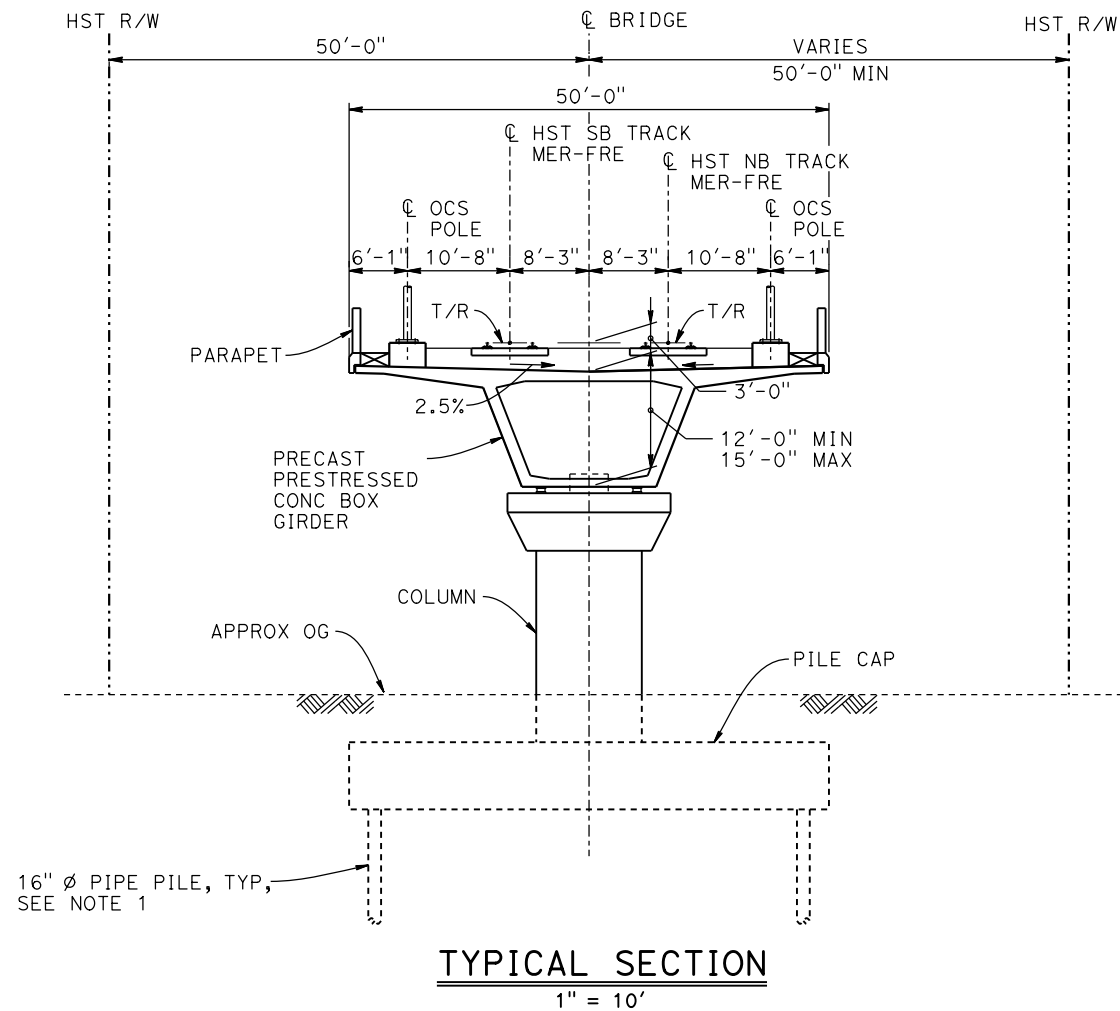
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1470-A

SCALE
AS SHOWN

SHEET NO.

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-B0054-A AND TT-B0055-A.



p0036110 06-FEB-2015 15:54 MF-ST-K3470-A.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
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

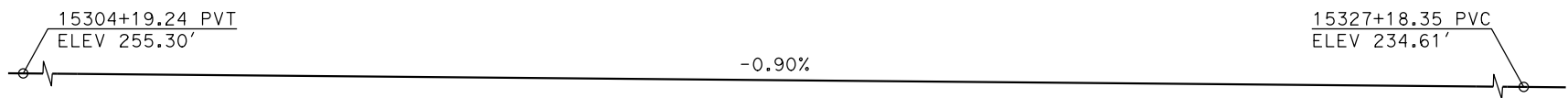
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
CHOWCHILLA RIVER BRIDGE - 2 OF 2

CONTRACT NO.
HSR08-05

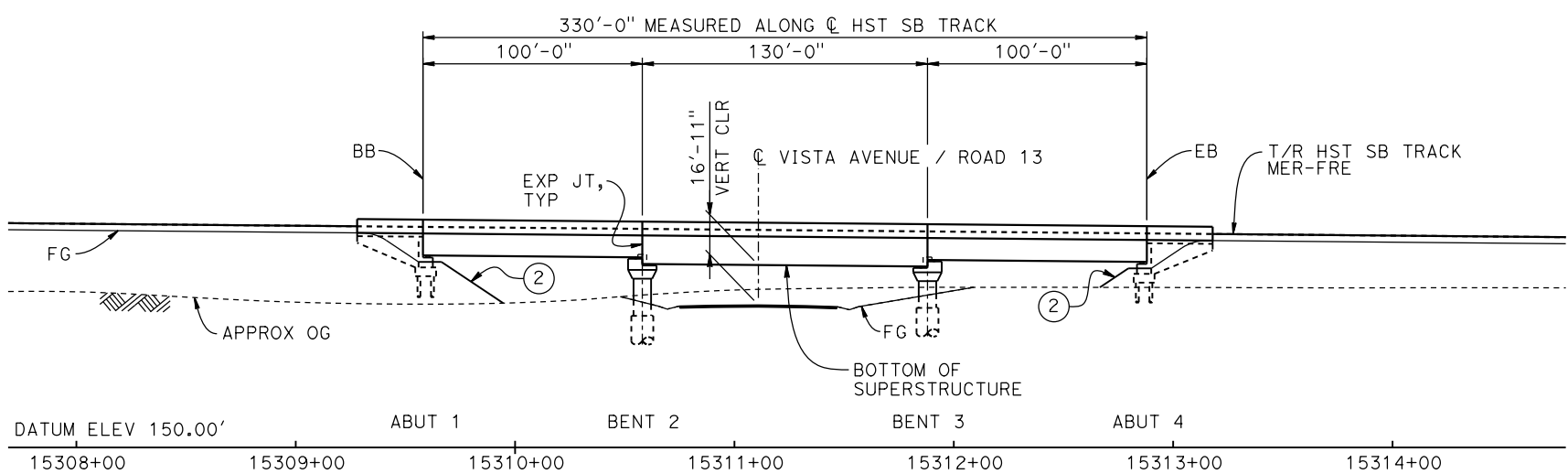
DRAWING NO.
ST-K3470-A

SCALE
AS SHOWN

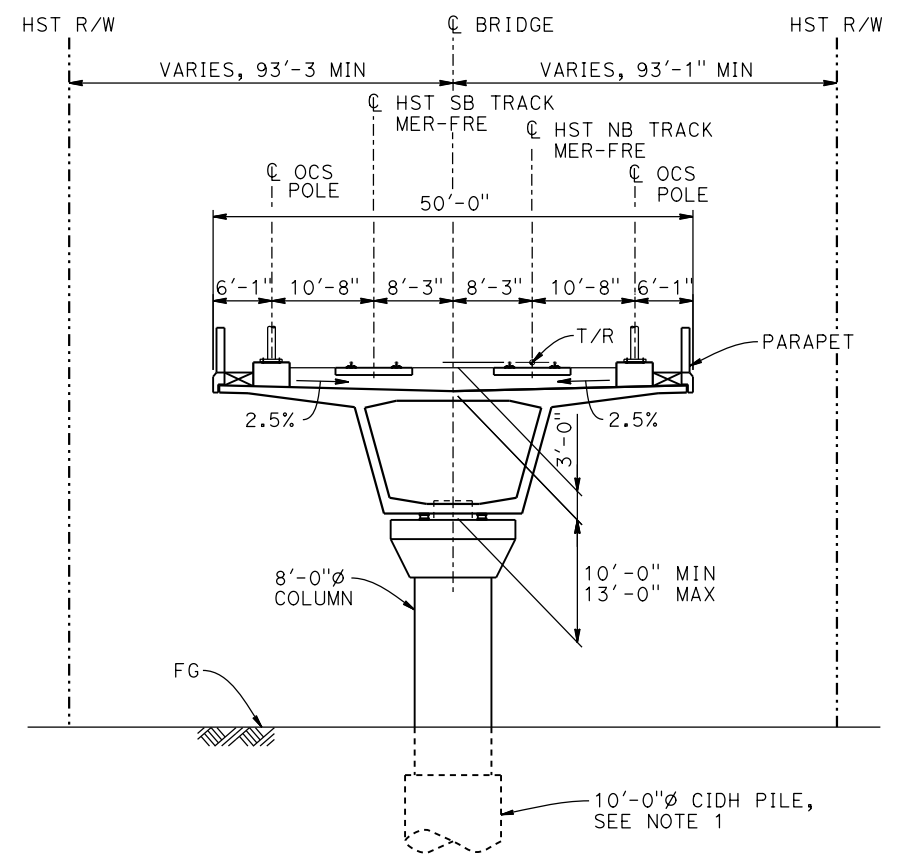
SHEET NO.



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



DEVELOPED ELEVATION
1" = 40'



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)

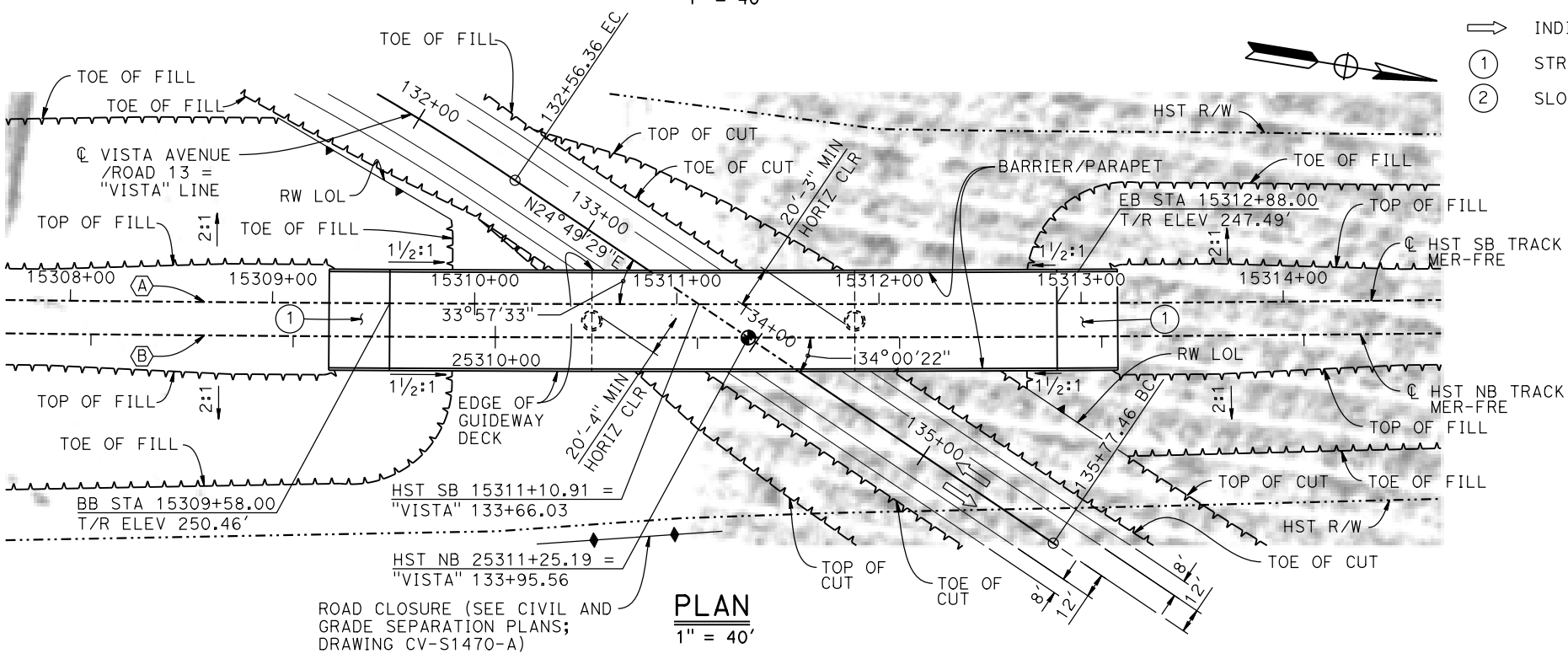
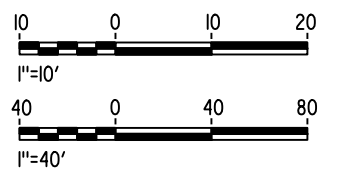
CURVE MER-FRE 2 SB (A) CURVE MER-FRE 2 NB (B)

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

- NOTES:**
- 16" ϕ 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-S1470-A.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLAN DRAWINGS TT-B0054-A AND TT-B0055-A.
 - FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1470-A.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC			
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.			



PLAN
1" = 40'

ROAD CLOSURE (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1470-A)

17-MAR-2016 09:14 MF-ST-K1475-A.dgn

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

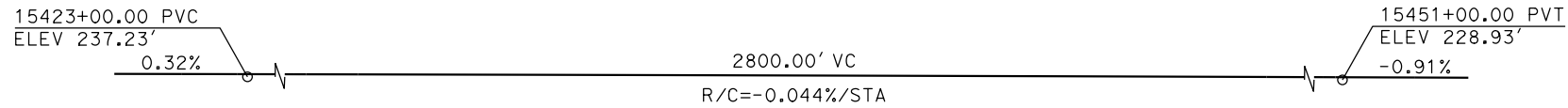
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
VISTA AVENUE (ROAD 13) UNDERPASS

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1475-A

SCALE
AS SHOWN

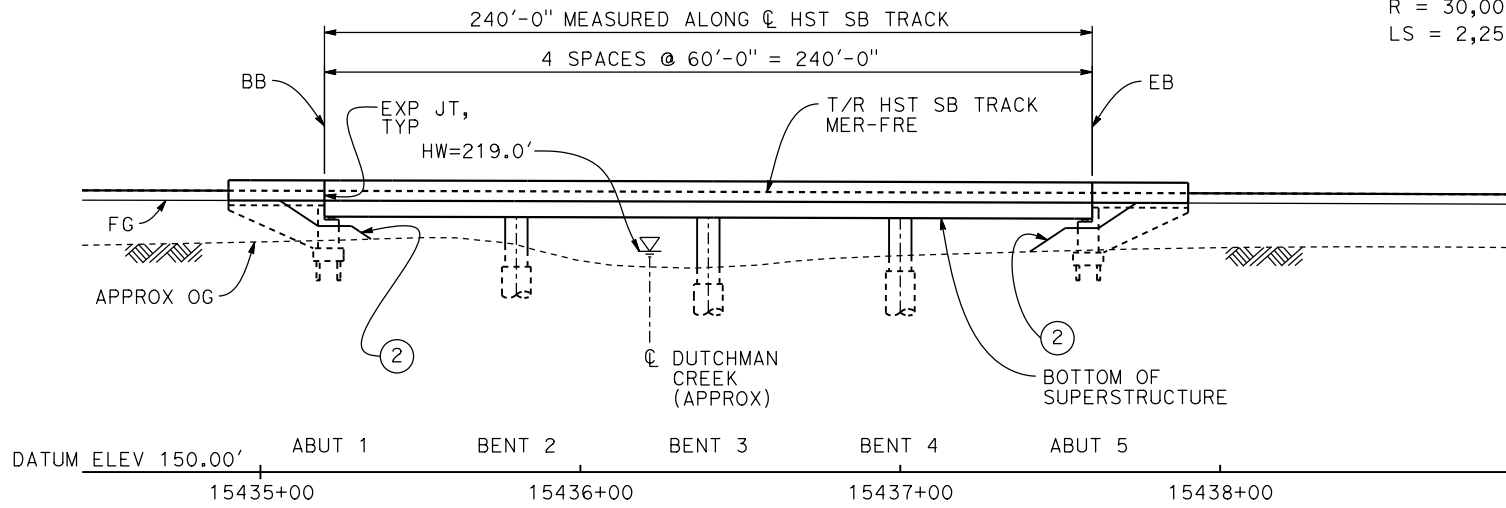
SHEET NO.



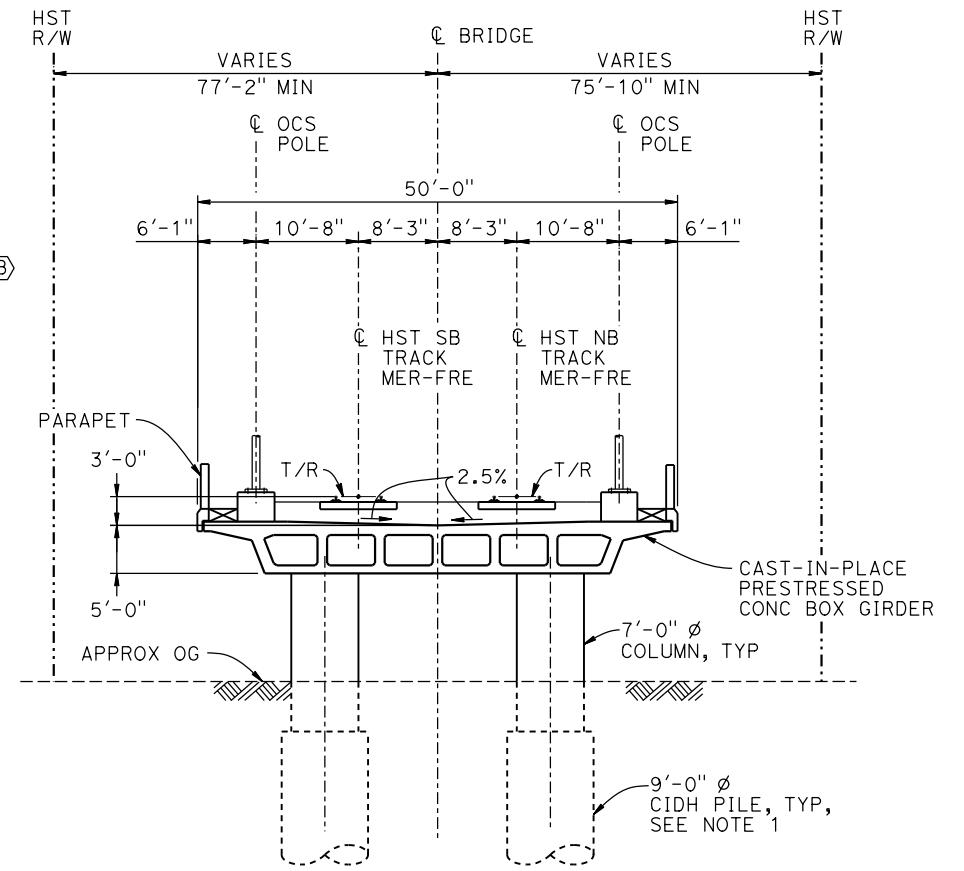
TOP OF RAIL PROFILE (CL HST SB TRACK)
NO SCALE

CURVE MER-FRE 2 SB (A)
R = 30,000.00'
LS = 2,250.00'

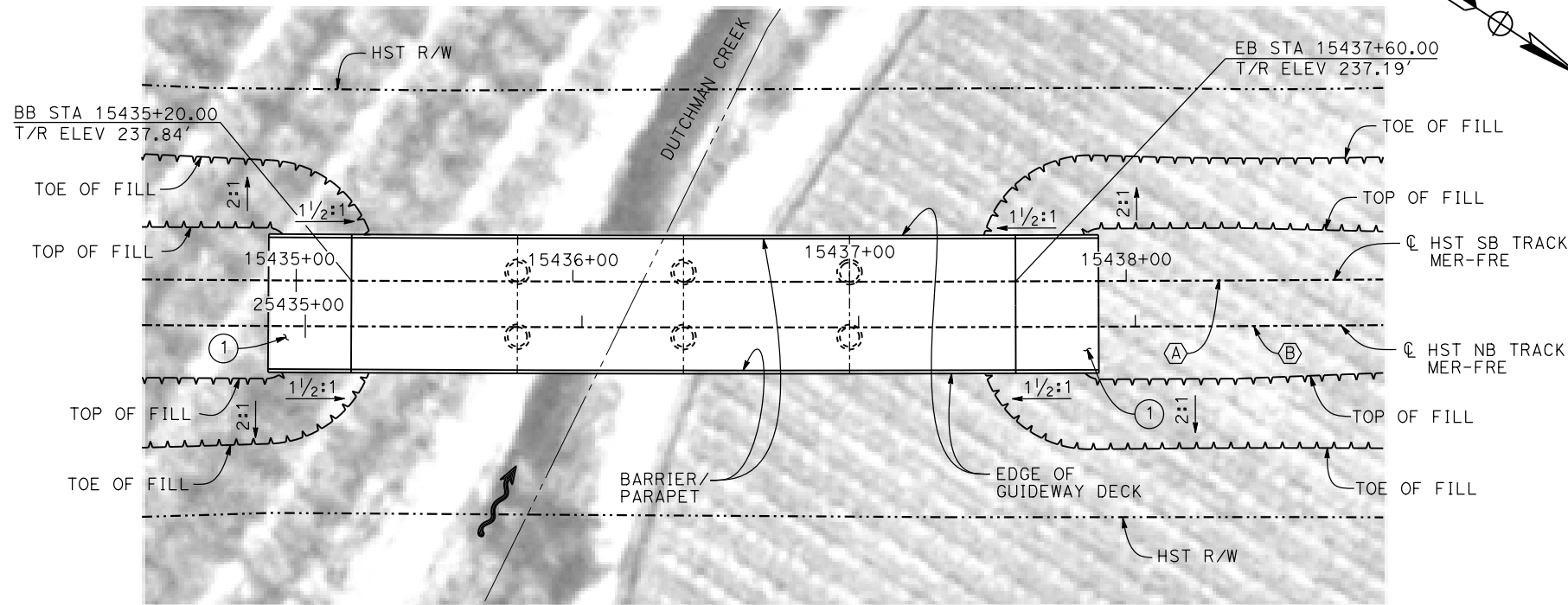
CURVE MER-FRE 2 NB (B)
R = 30,016.50'
LS = 2,250.00'



DEVELOPED ELEVATION
1" = 30'



TYPICAL SECTION
1" = 10'



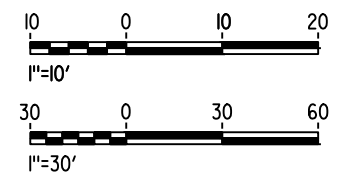
PLAN
1" = 30'

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-A.
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-A AND TT-B0055-A.



06-FEB-2015 16:16 MF-ST-K1490-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. SUN

DRAWN BY
S. HICKS

CHECKED BY
S. J. S.

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

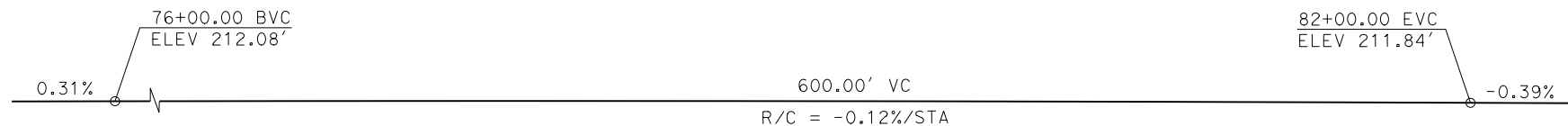
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
DUTCHMAN CREEK BRIDGE

CONTRACT NO.
HSR08-05

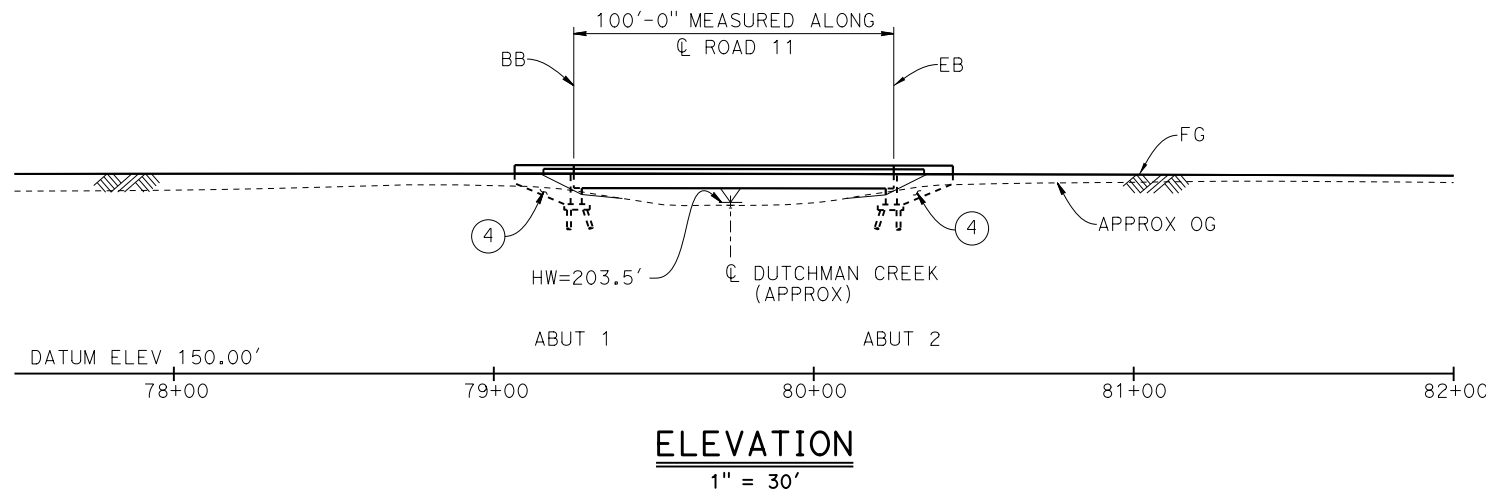
DRAWING NO.
ST-K1490-A

SCALE
AS SHOWN

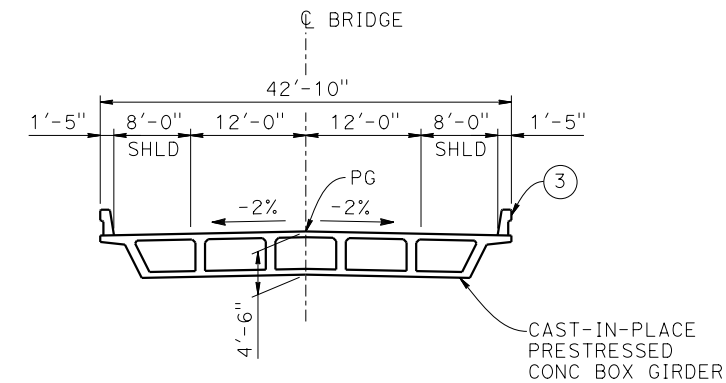
SHEET NO.



PROFILE GRADE
NO SCALE



ELEVATION
1" = 30'



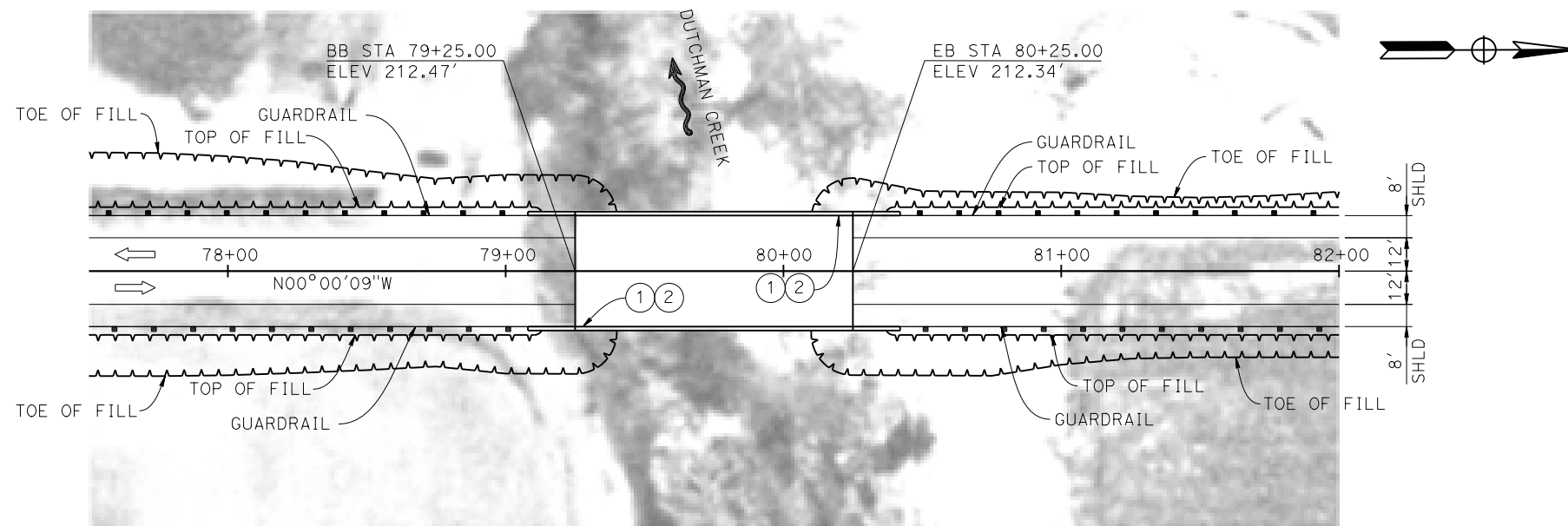
TYPICAL SECTION
1" = 10'

LEGEND:

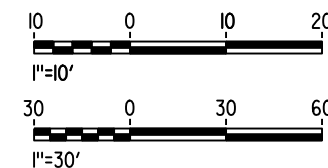
- INDICATES DIRECTION OF FLOW
- INDICATES DIRECTION OF TRAFFIC
- ① PAINT "ROAD 11 BRIDGE"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 732
- ④ WINGWALL

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-R1492-A.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1492-A.



PLAN
1" = 30'



10-MAR-2016 5:45 MF-ST-K1495-A.dgn

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

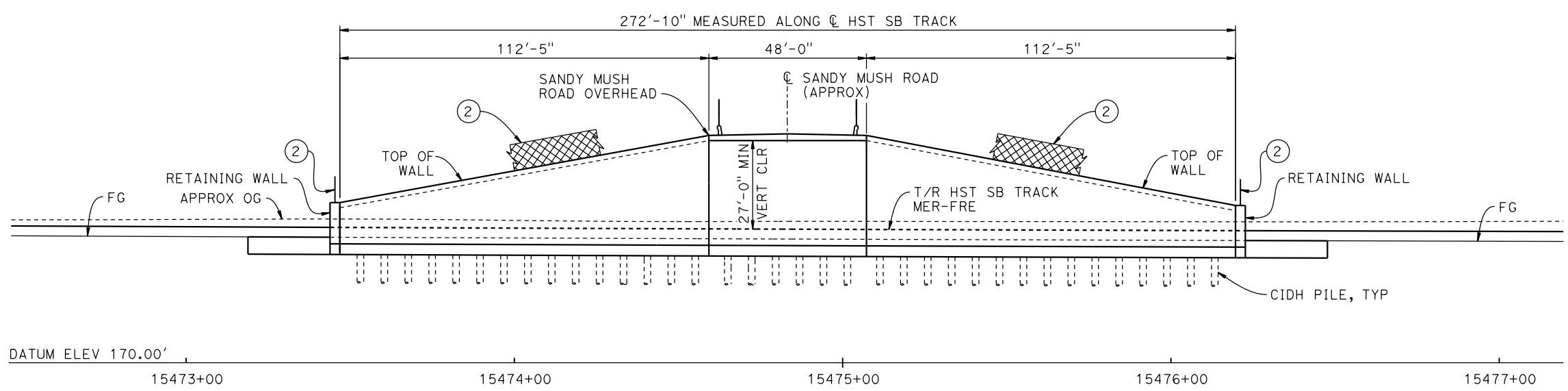
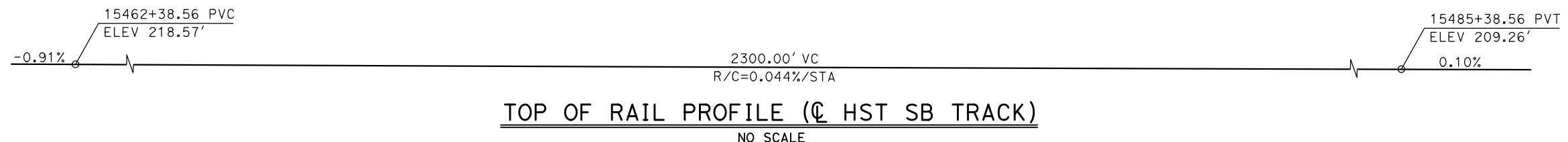
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



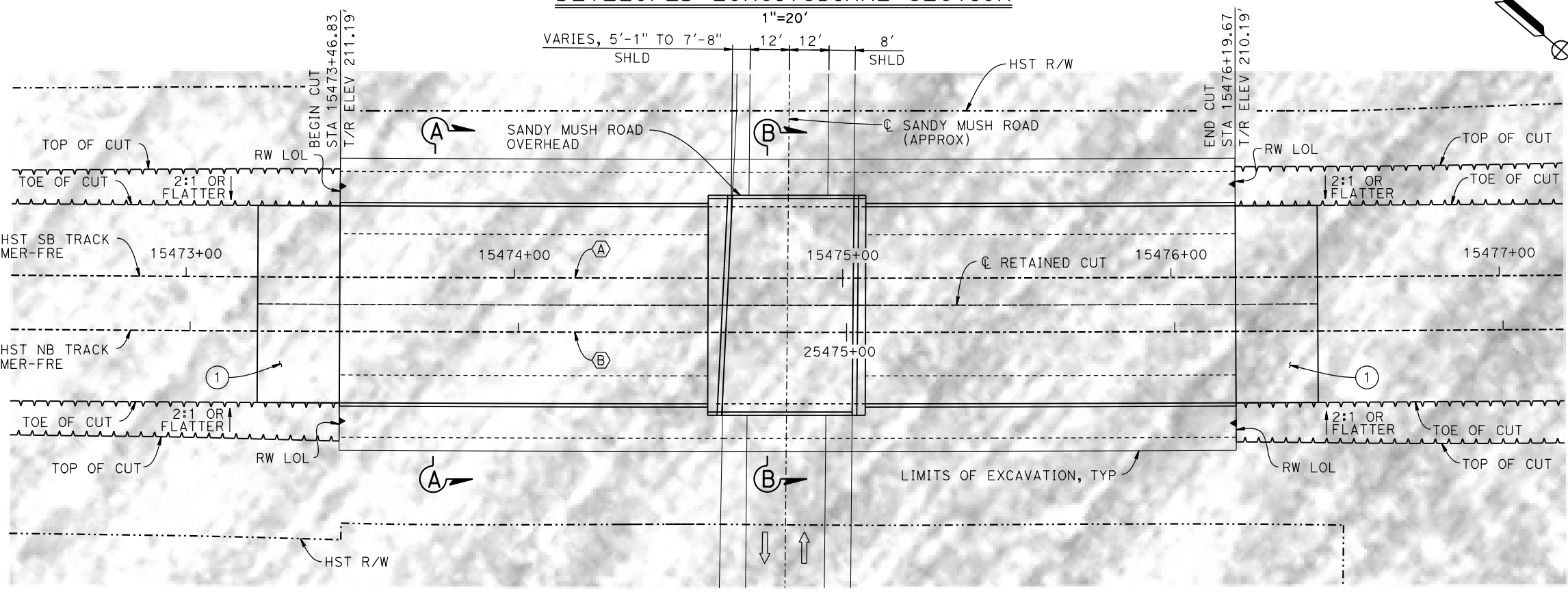
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ROAD 11 BRIDGE

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



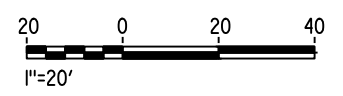
CURVE MER-FRE 2 SB (A)
 R = 30,000.00'
 LS = 2,250.00'

CURVE MER-FRE 2 NB (B)
 R = 30,016.50'
 LS = 2,250.00'



- NOTES:**
1. FOR SECTIONS, SEE DRAWING ST-T3500-A.
 2. PILE LENGTH AND LAYOUT TO BE DETERMINED ONCE A SITE SPECIFIC ASSESSMENT OF GROUNDWATER CONDITIONS IS AVAILABLE.
 3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1500-A.
 4. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1500-A.
 5. FOR SANDY MUSH ROAD OVERHEAD GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1500-A.

- LEGEND:**
- ➔ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② AR FENCE WITH SOLID PLATE



06-FEB-2015 15:16:24 MF-ST-T1500-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. KIDWELL

CHECKED BY
S. J. S.

IN CHARGE
C. LEMLEY

DATE
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

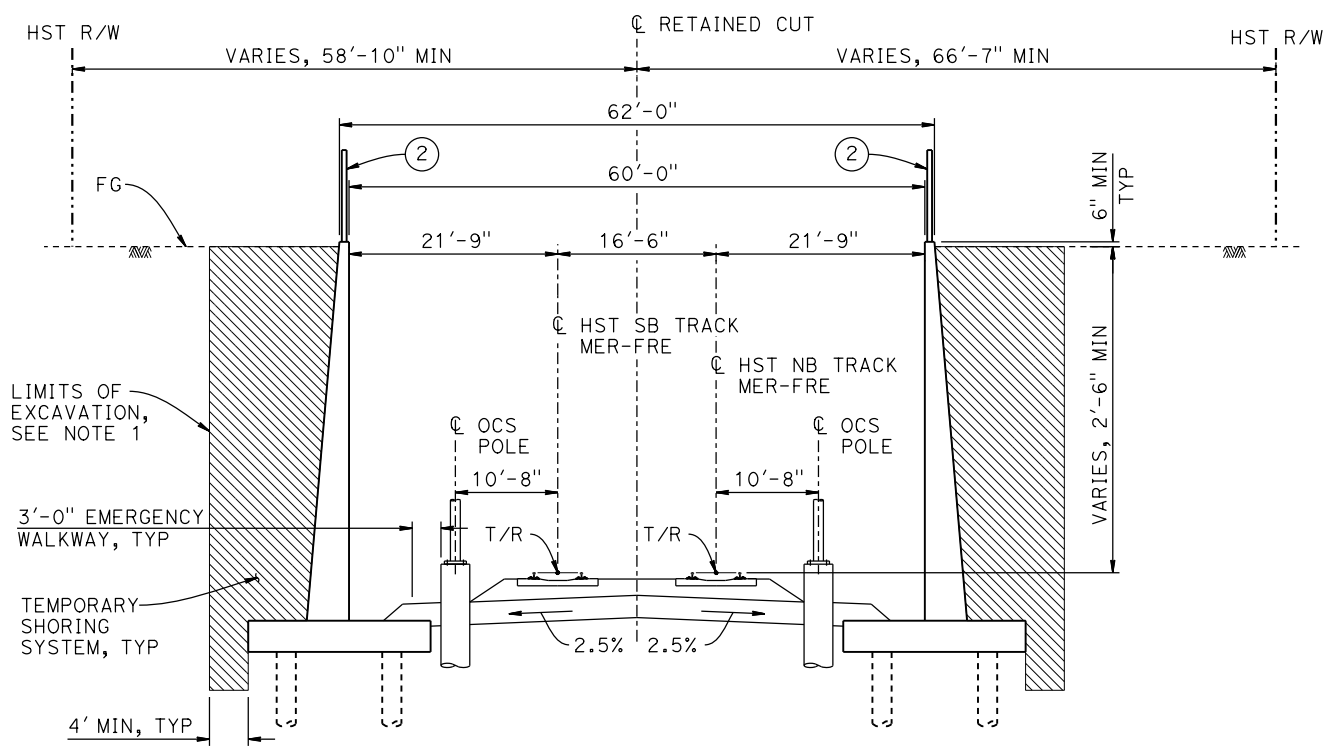
NOT FOR
CONSTRUCTION



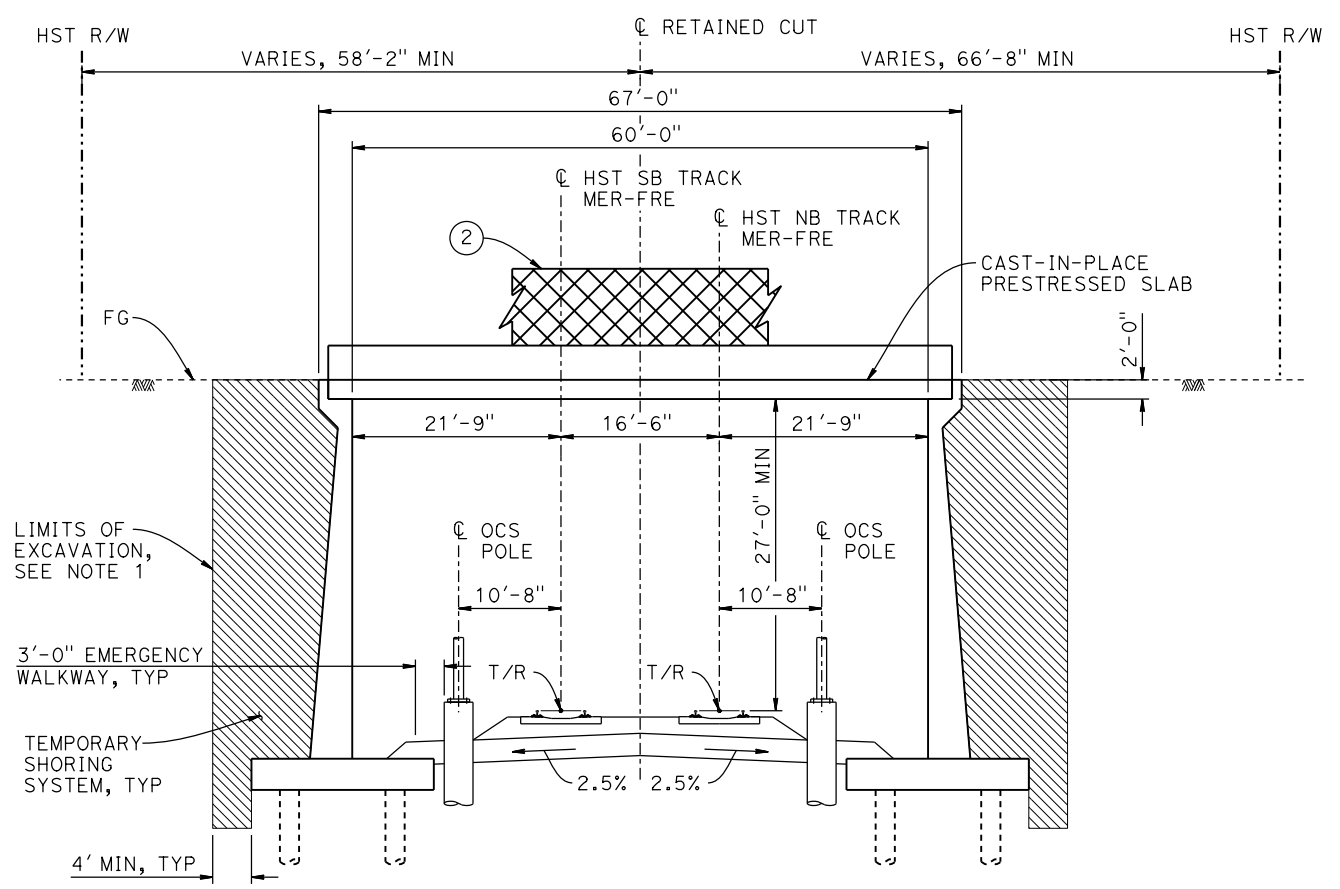
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 GENERAL PLAN (MER-FRE)
 RETAINED CUT - SANDY MUSH ROAD - 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. ST-T1500-A
SCALE AS SHOWN
SHEET NO.



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-B0054-A AND TT-B0055-A.



06-FEB-2015 16:24 MF-ST-T3500-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

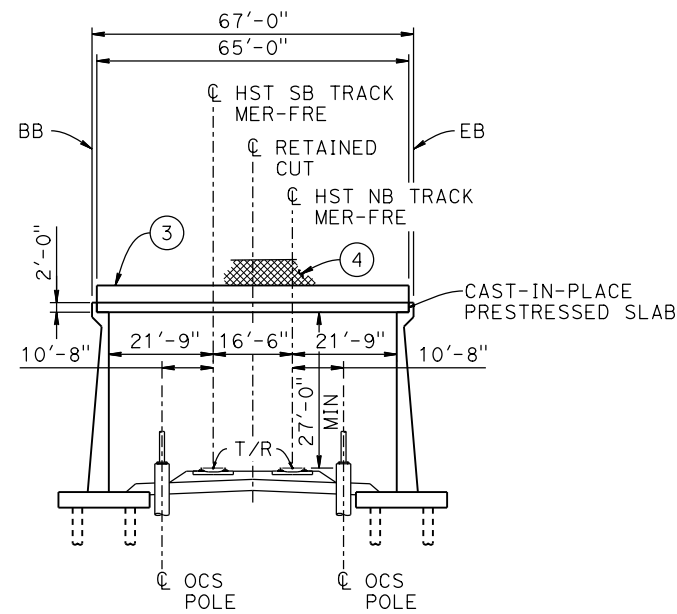
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



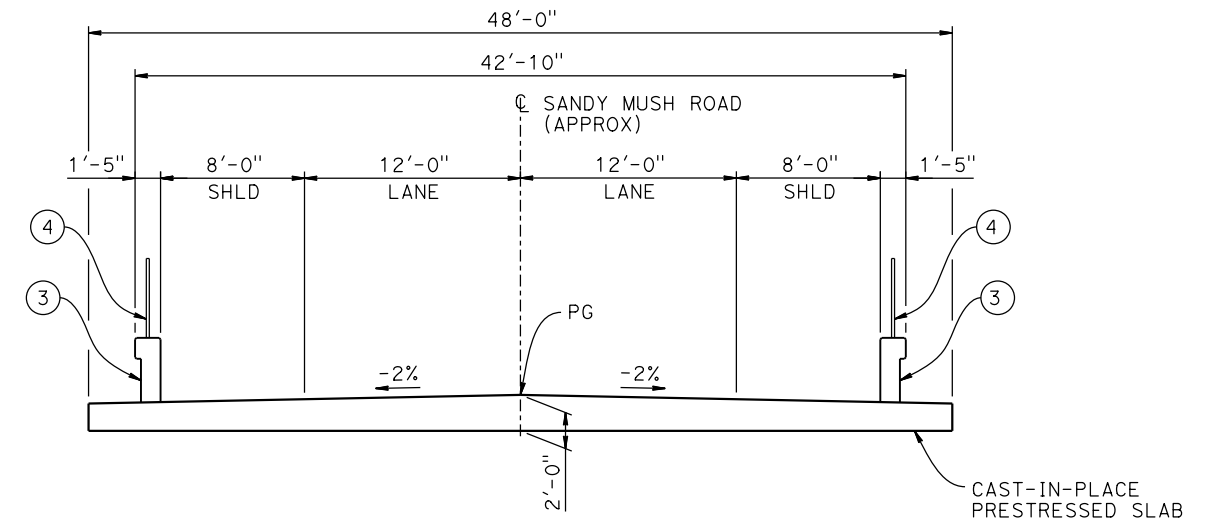
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (MER-FRE)
RETAINED CUT - SANDY MUSH ROAD - 2 OF 2

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-T3500-A
SCALE
AS SHOWN
SHEET NO.

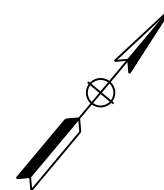
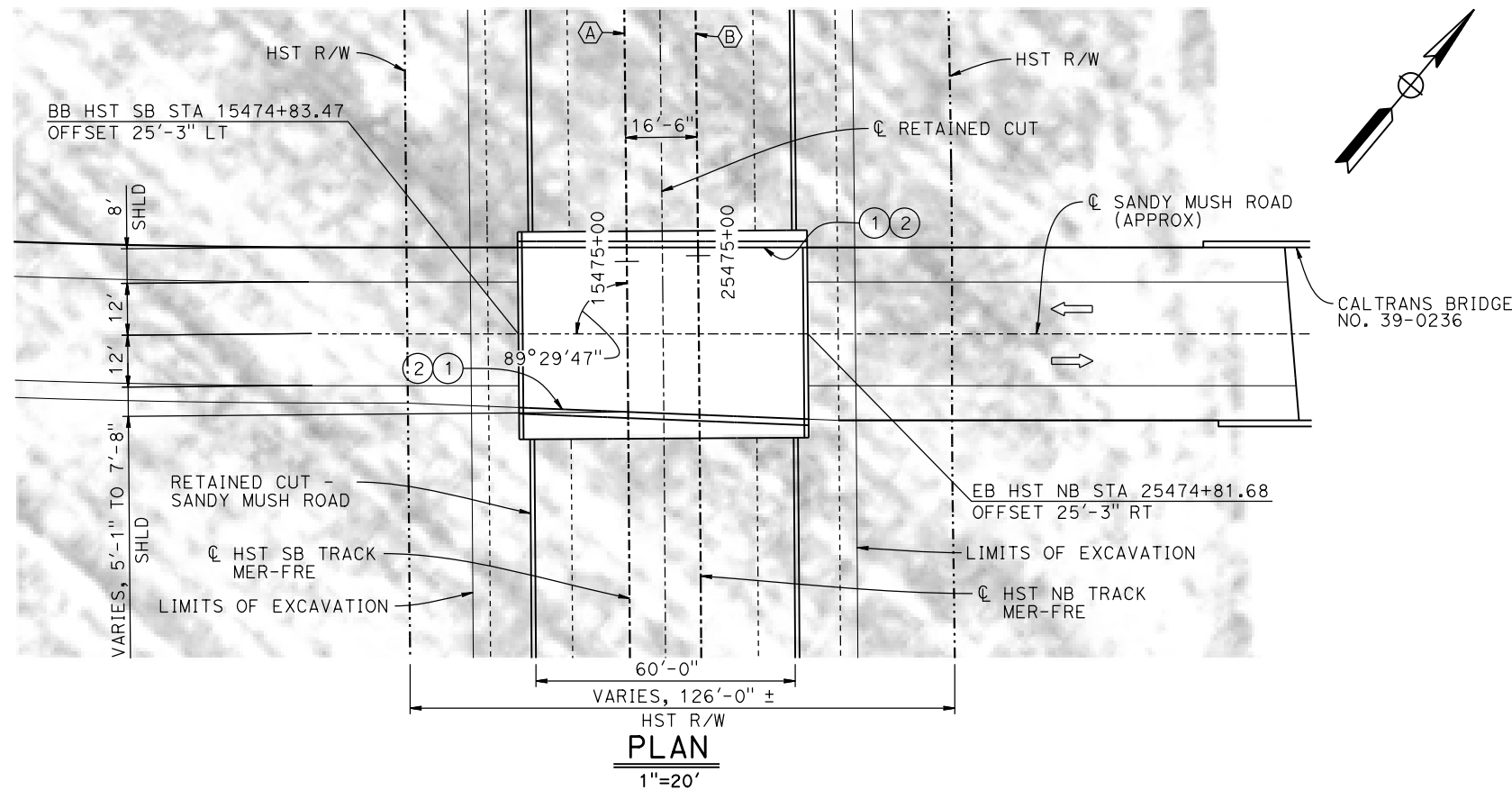


DATUM ELEV 160.00'

ELEVATION
1"=20'



TYPICAL SECTION
3/16"=1'-0"



LEGEND:

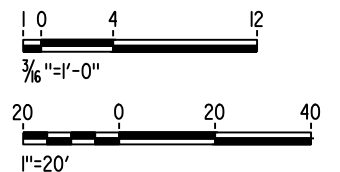
- ⇒ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "SANDY MUSH ROAD OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ AR FENCE WITH SOLID PLATE

NOTES:

1. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1500-A.
2. PILE LENGTH AND LAYOUT TO BE DETERMINED ONCE A SITE SPECIFIC ASSESSMENT OF GROUNDWATER CONDITIONS IS AVAILABLE.
3. FOR RETAINED CUT - SANDY MUSH ROAD GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-T1500-A AND ST-T3500-A.

CURVE MER-FRE 2 SB Ⓐ
R = 30,000.00'
LS = 2,250.00'

CURVE MER-FRE 2 NB Ⓑ
R = 30,016.50'
LS = 2,250.00'



06-FEB-2015 16:16 MF-ST-K1500-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. KIDWELL

CHECKED BY
S. J. S.

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

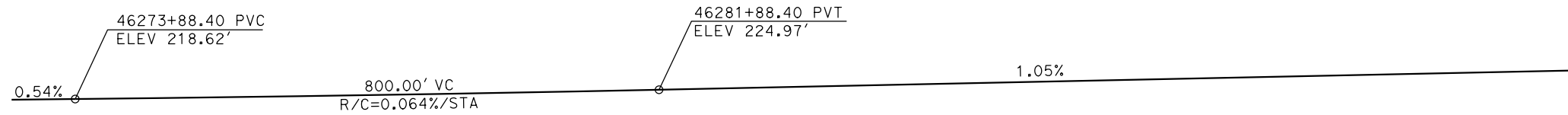
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
SANDY MUSH ROAD OVERHEAD

CONTRACT NO.
HSR08-05

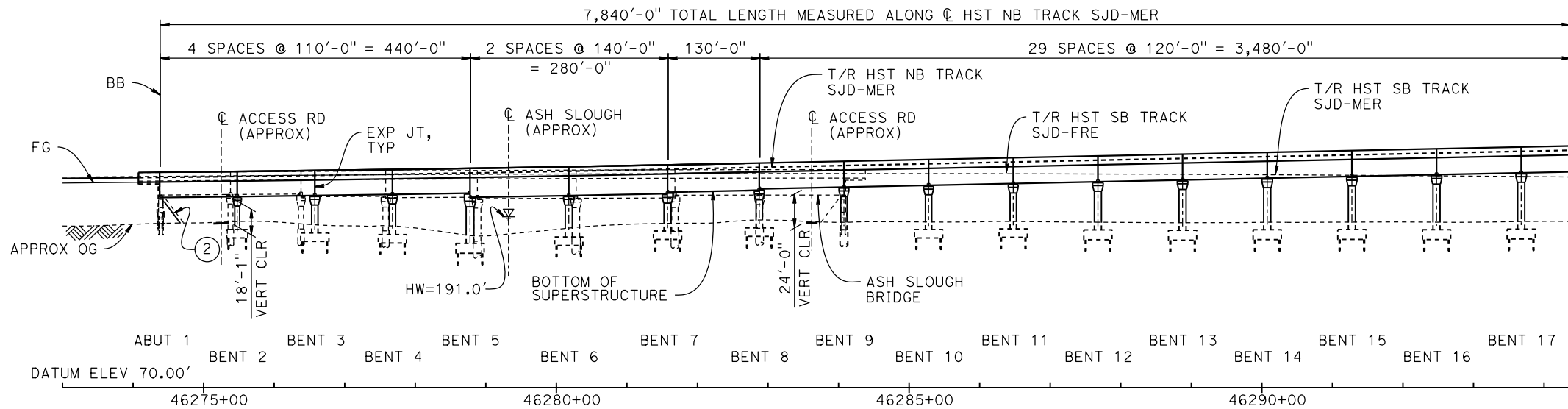
DRAWING NO.
ST-K1500-A

SCALE
AS SHOWN

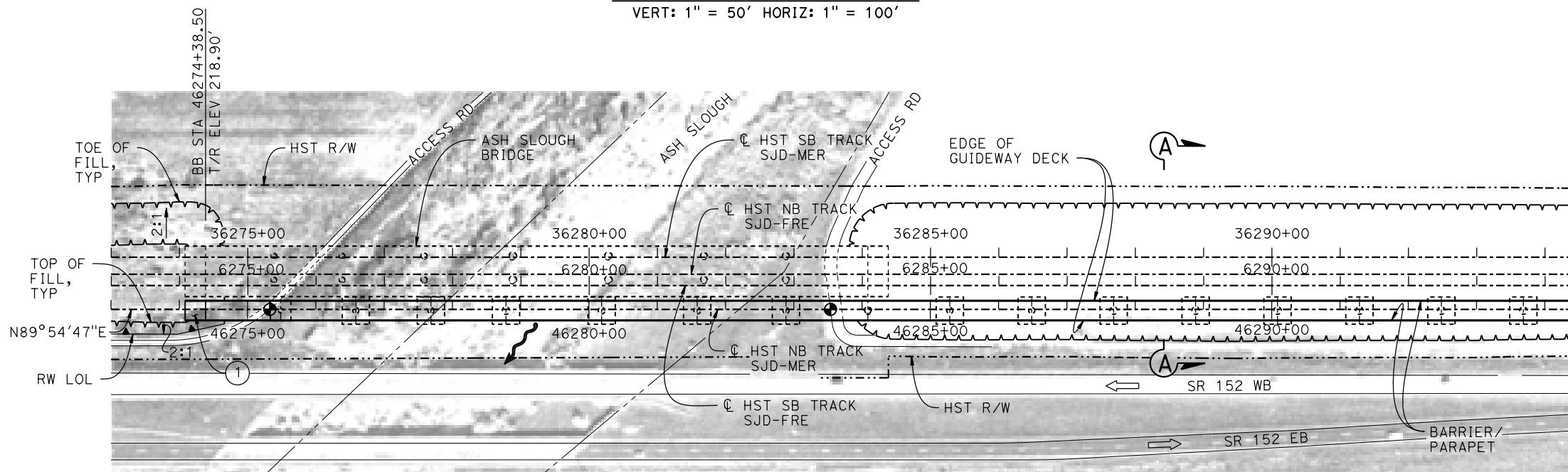
SHEET NO.



TOP OF RAIL PROFILE (C 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 FLOW
- ⇨ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1½H:1V)

TEMPORARY TRAFFIC OPENINGS

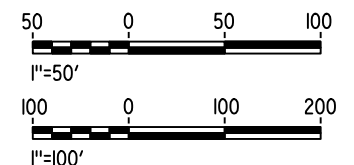
VEHICULAR TRAFFIC			
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
ACCESS ROAD 46275+25	20'X16.5'	-	
ACCESS ROAD 46283+62	20'X16.5'	-	
3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

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-K3620-A AND ST-K3621-A.
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-A AND CV-S1620-A.
5. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1610-A AND CV-S1620-A.
6. FOR ASH SLOUGH BRIDGE GENERAL PLAN AND TYPICAL SECTION, SEE DRAWINGS ST-K1170-A AND ST-K3170-A.

CURVE SJD-MER 1 NB (A)

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



06-FEB-2015 15:51:33 MF-ST-K1620-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. M.
DRAWN BY W. JOHNSEN
CHECKED BY S. J. S.
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

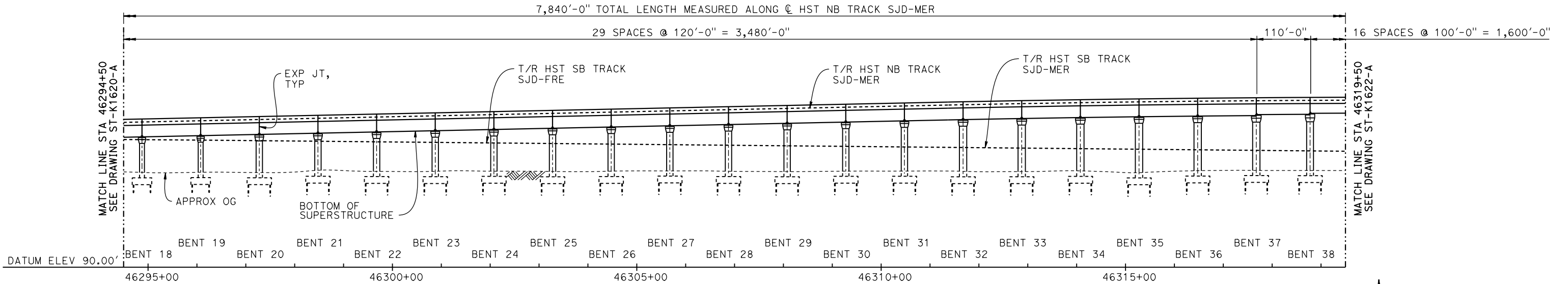
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 1 OF 6

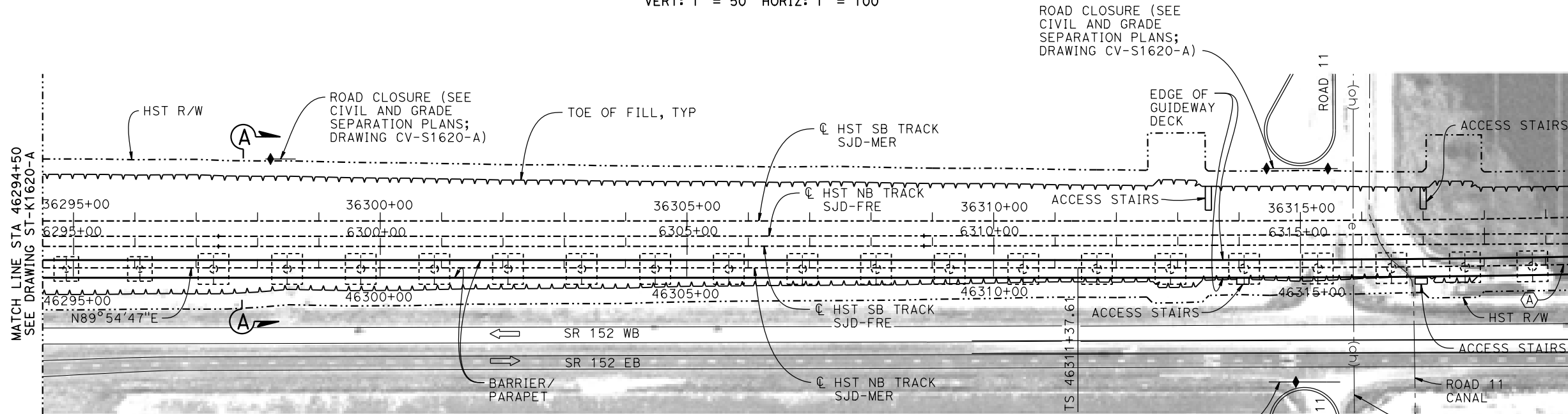
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1620-A
SCALE AS SHOWN
SHEET NO.



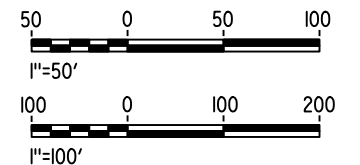
TOP OF RAIL PROFILE (CL HST NB TRACK SJD-MER)
NO SCALE



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



PLAN
1" = 100'



06-FEB-2015 15:51:34 MF-ST-K1621-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. M.
DRAWN BY
W. JOHNSEN
CHECKED BY
S. J. S.
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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 2 OF 6

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

2100.00' VC
R/C=-0.110%/STA

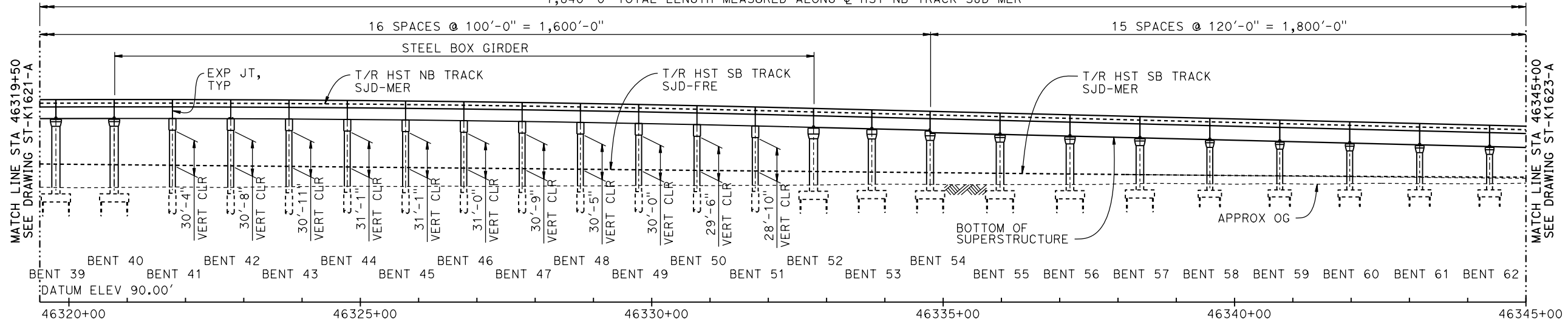
46332+37.61 PVT
ELEV 253.90'

-1.25%

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

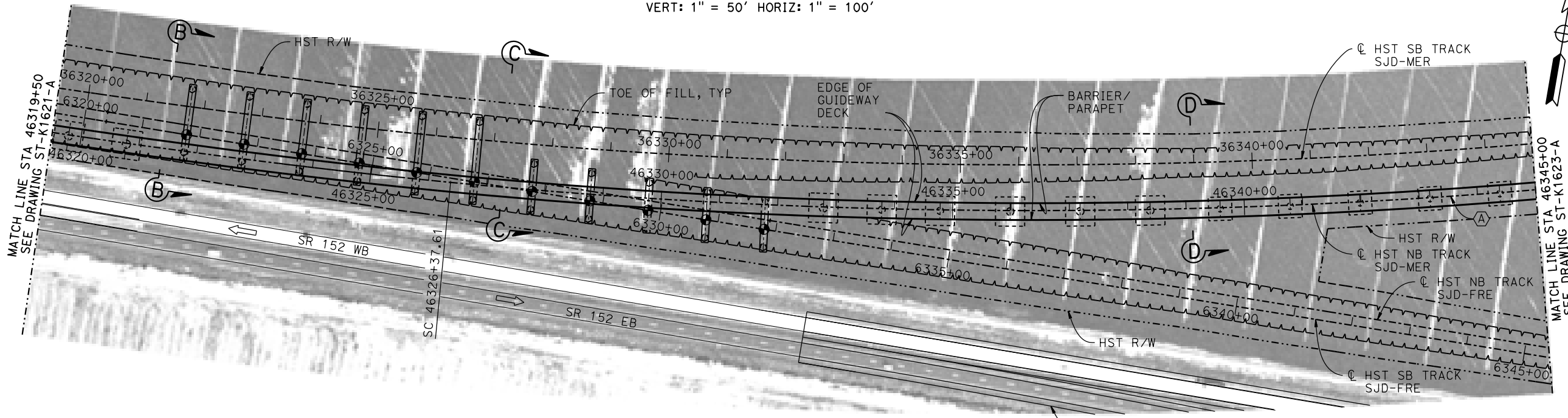
NO SCALE

7,840'-0" TOTAL LENGTH MEASURED ALONG C HST NB TRACK SJD-MER



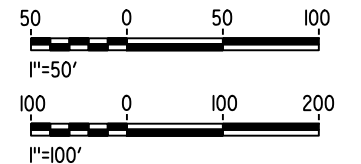
DEVELOPED ELEVATION

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



PLAN

1" = 100'



06-FEB-2015 15:51:34 MF-ST-K1622-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. M.

DRAWN BY
W. JOHNSEN

CHECKED BY
S. J. S.

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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 3 OF 6

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1622-A

SCALE
AS SHOWN

SHEET NO.

16-MAR-2016 16:03 MF-ST-K1623-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. M.

DRAWN BY
W. JOHNSON

CHECKED BY
S. J. S.

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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

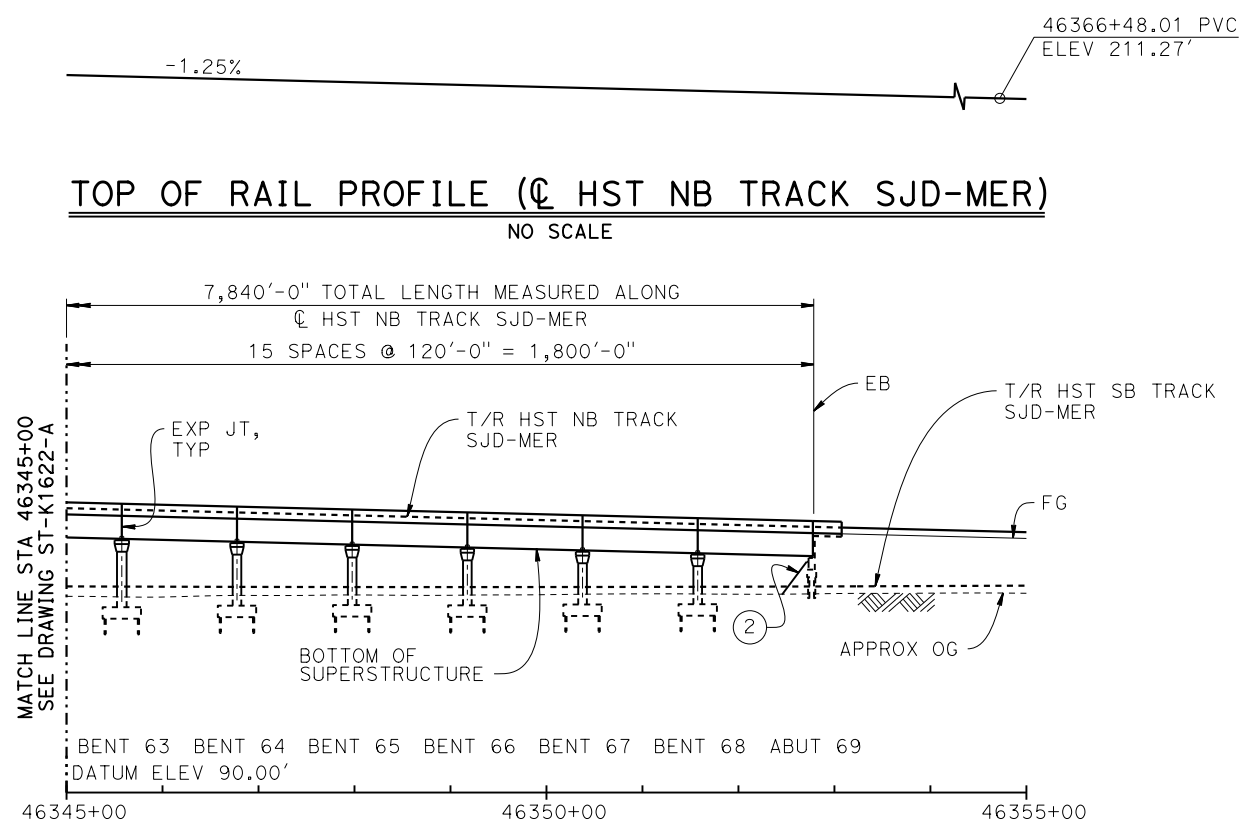
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 4 OF 6

CONTRACT NO.
HSR08-05

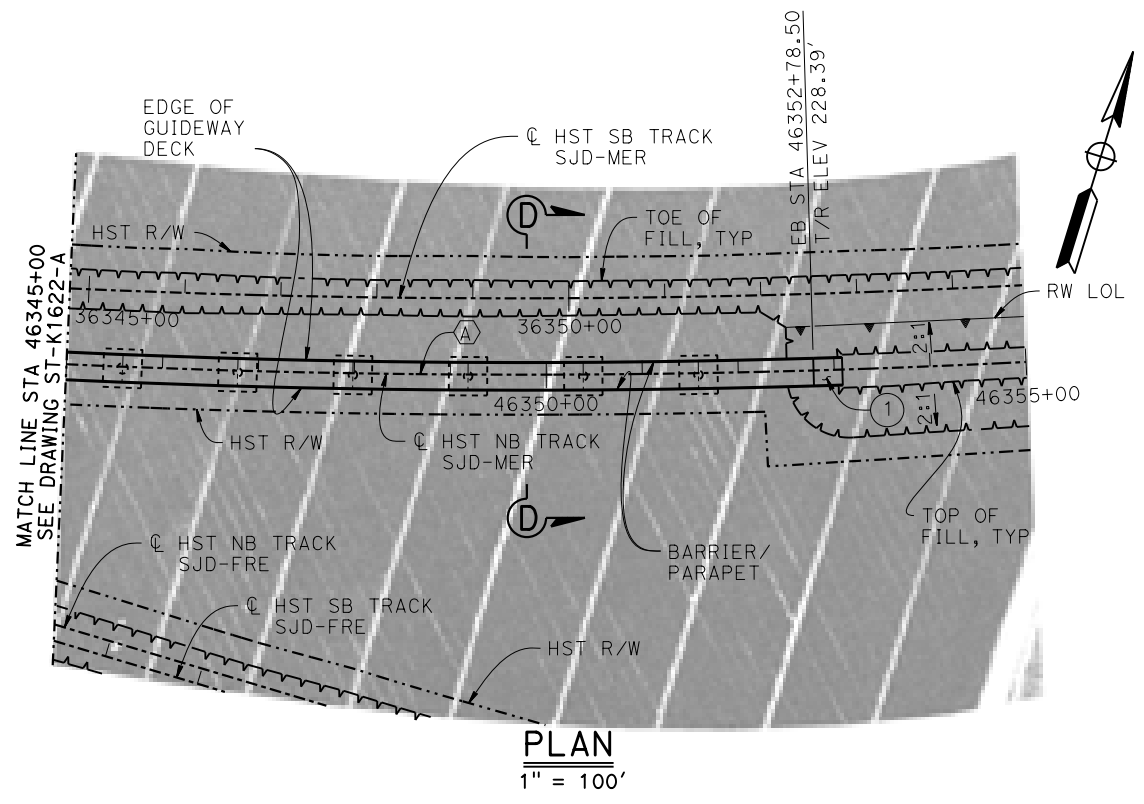
DRAWING NO.
ST-K1623-A

SCALE
AS SHOWN

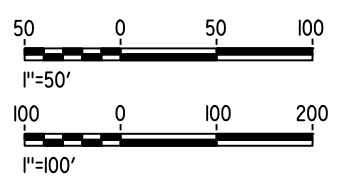
SHEET NO.

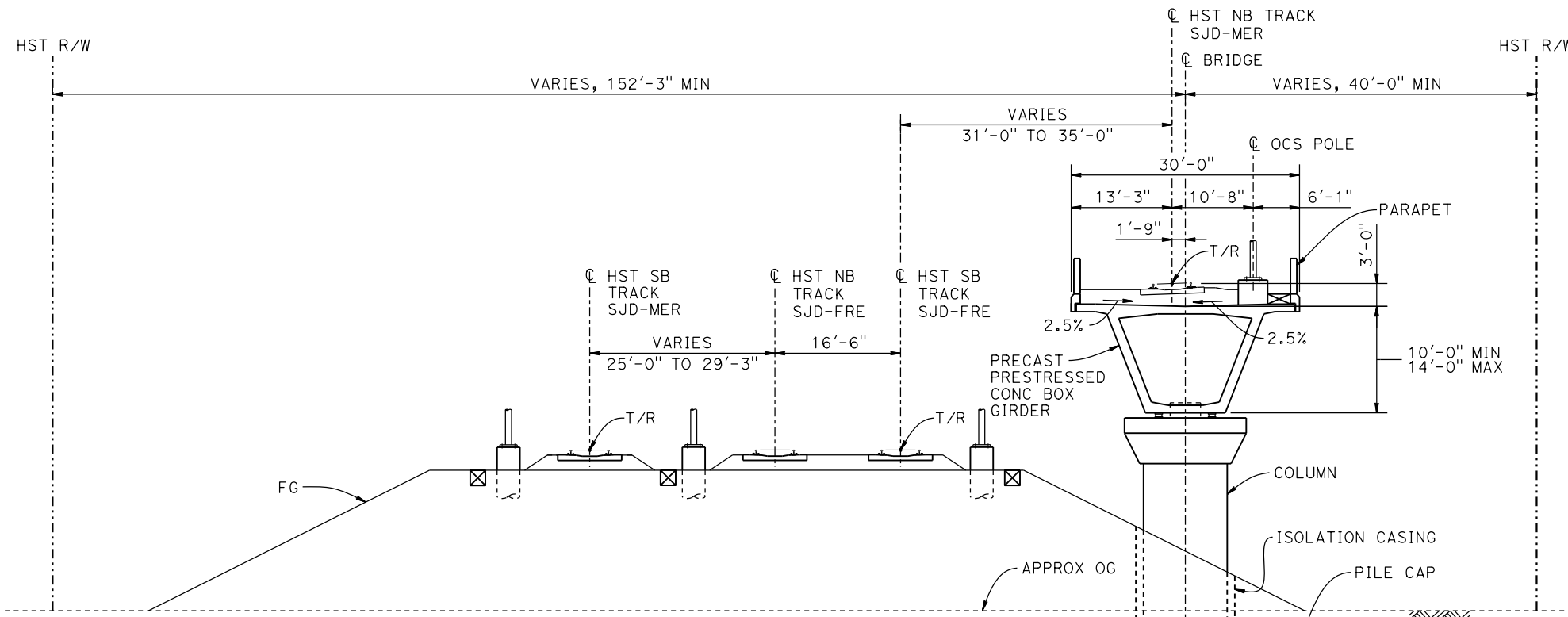


DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'



PLAN
1" = 100'

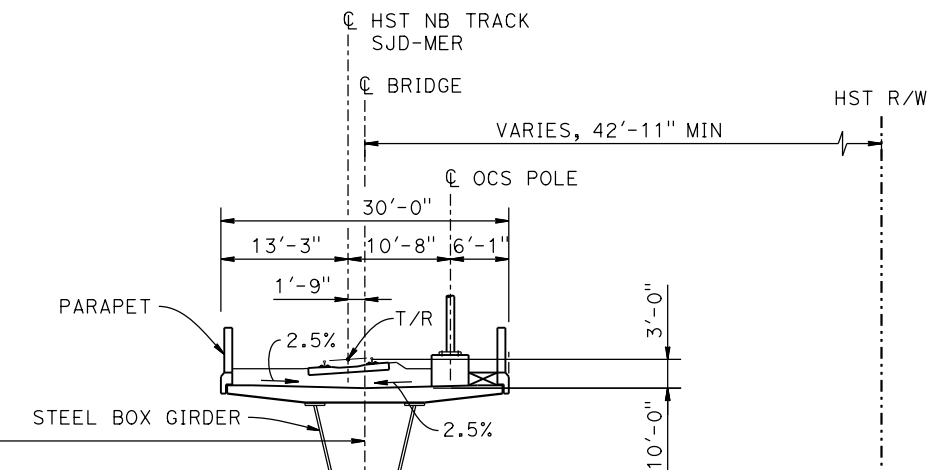




- NOTES:**
1. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-A.

SECTION A-A
1" = 10'

16" Ø PIPE PILE
TYP, SEE NOTE 1



SECTION B-B
1" = 10'



BENT COLUMN SCHEDULE			
BENT	COLUMN TYPE	CIDH TYPE	"A"
2	7'-0" Ø		
3 - 4	9'-0" Ø		
5	11'-0" Ø		
6 - 7	10'-0" Ø		
8	9'-0" Ø		
9	9'-0" Ø	11'-0" Ø	
10 - 11	9'-0" Ø		
12 - 19	11'-0" Ø		
20 - 28	13'-0" Ø		
29 - 37	15'-0" Ø		
38 - 40	14'-0" Ø		
41	2 - 10'-0" Ø		109'-0"
42	2 - 10'-0" Ø		112'-0"

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	"A"
43	2 - 10'-0" Ø	116'-0"
44	2 - 10'-0" Ø	121'-0"
45	2 - 10'-0" Ø	127'-0"
46	2 - 10'-0" Ø	133'-0"
47 - 51	2 - 10'-0" Ø	78'-0"
52	14'-0" Ø	
53 - 54	12'-0" Ø	
55 - 57	13'-0" Ø	
58 - 63	11'-0" Ø	
64 - 68	9'-0" Ø	

06-FEB-2015 15:51:35 MF-ST-K3620-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

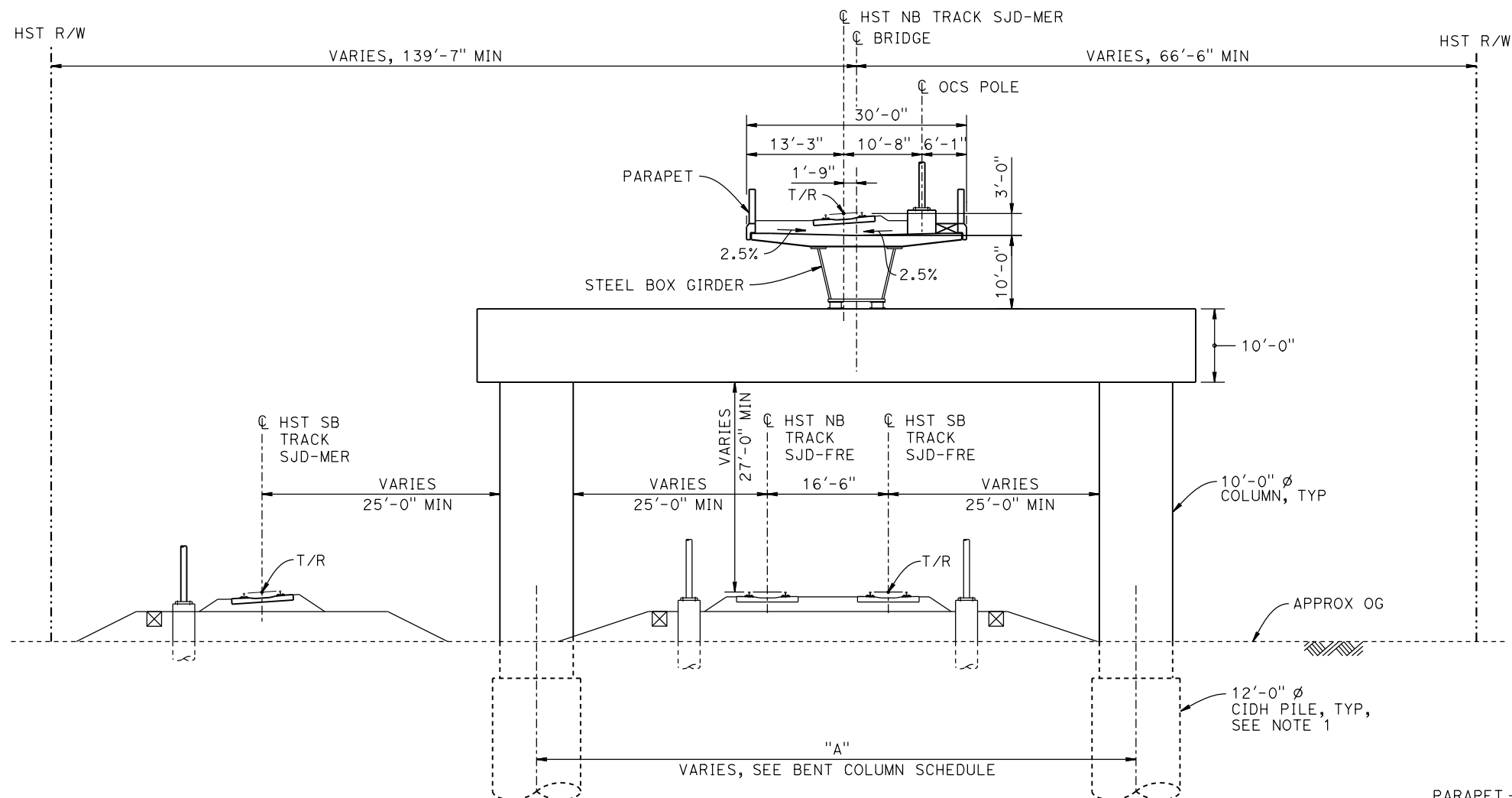
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



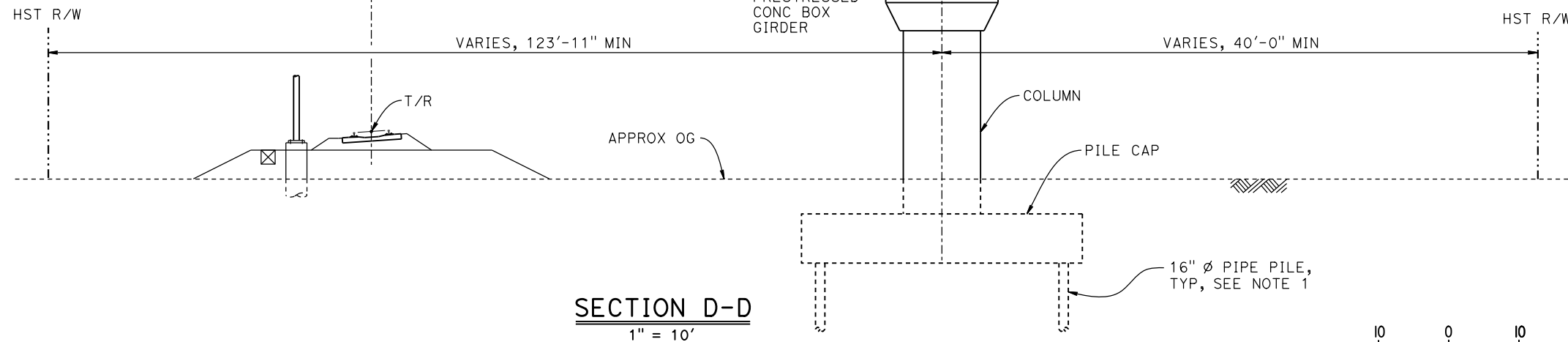
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 5 OF 6

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



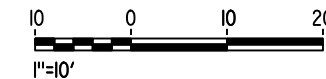
SECTION C-C
1" = 10'

HST SB TRACK SJD-MER
VARIES, 77'-11" TO 79'-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-B0056-A.



06-FEB-2015 15:51:35 MF-ST-K3621-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

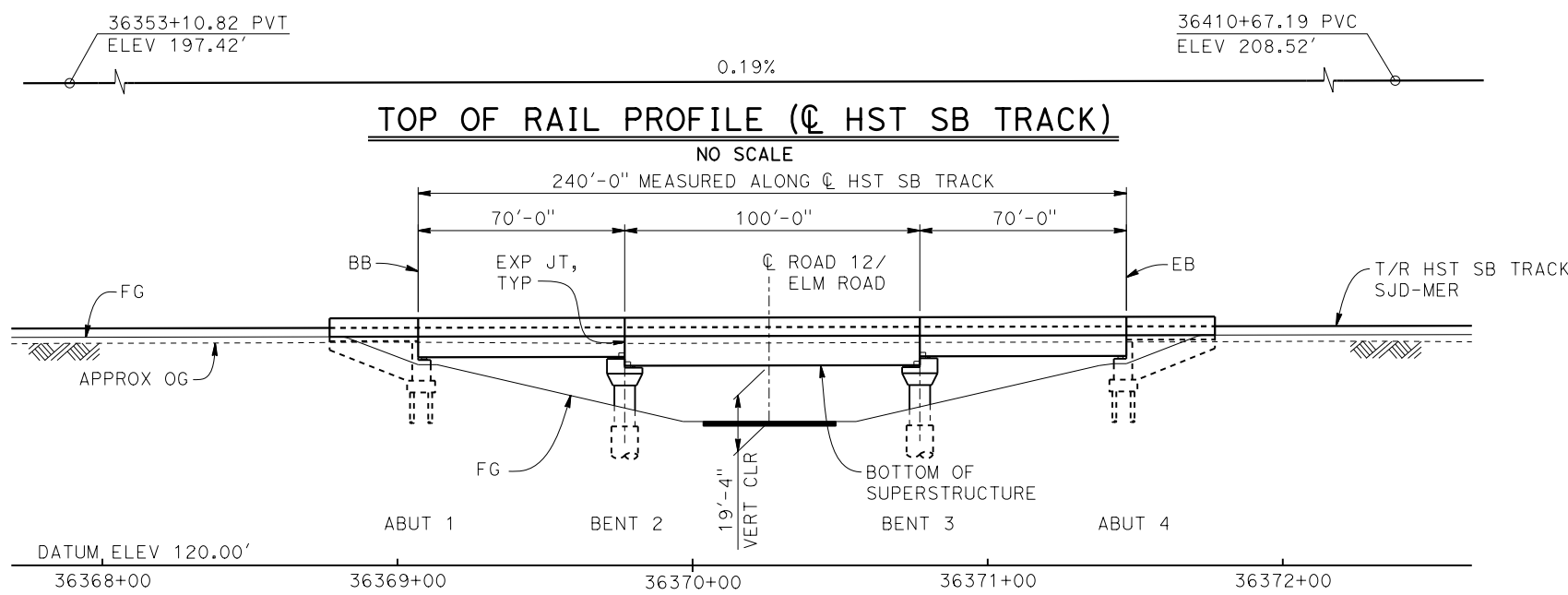
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

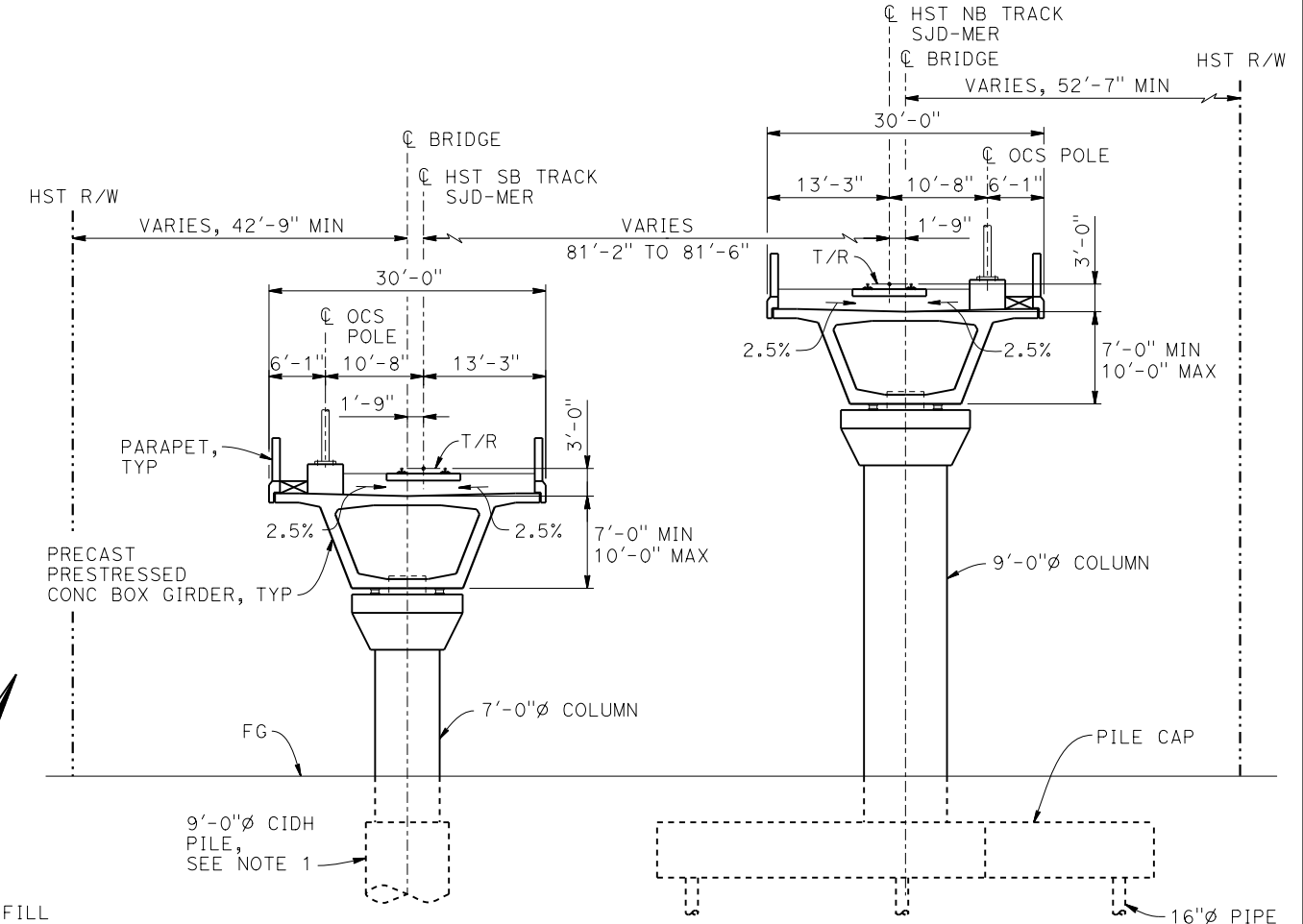


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 6 OF 6

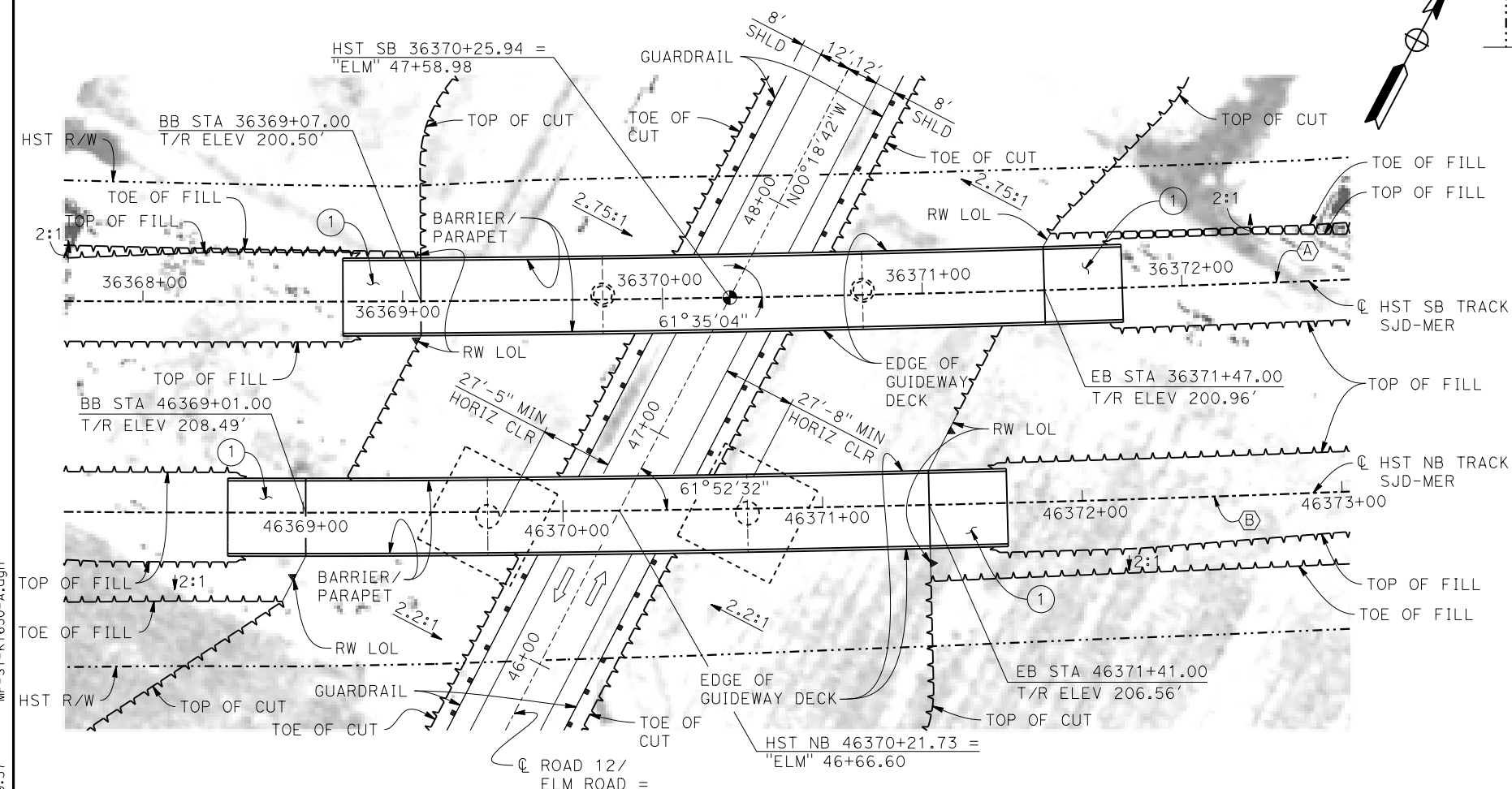
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K3621-A
SCALE
AS SHOWN
SHEET NO.



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



TYPICAL SECTION
1" = 10'



PLAN
1" = 30'

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'

NOTES:

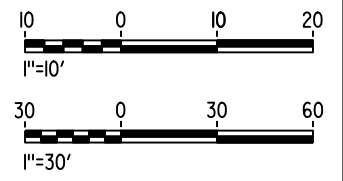
- 16"Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-A.
- FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-A.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-A.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-A.

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:			
STREET OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)		
ROAD 12/ELM ROAD	36370+26	32'x16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXCAVATION.			

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH



09-FEB-2015 09:57 MF-ST-K1630-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
W. JOHNSEN

CHECKED BY
S. J. S.

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

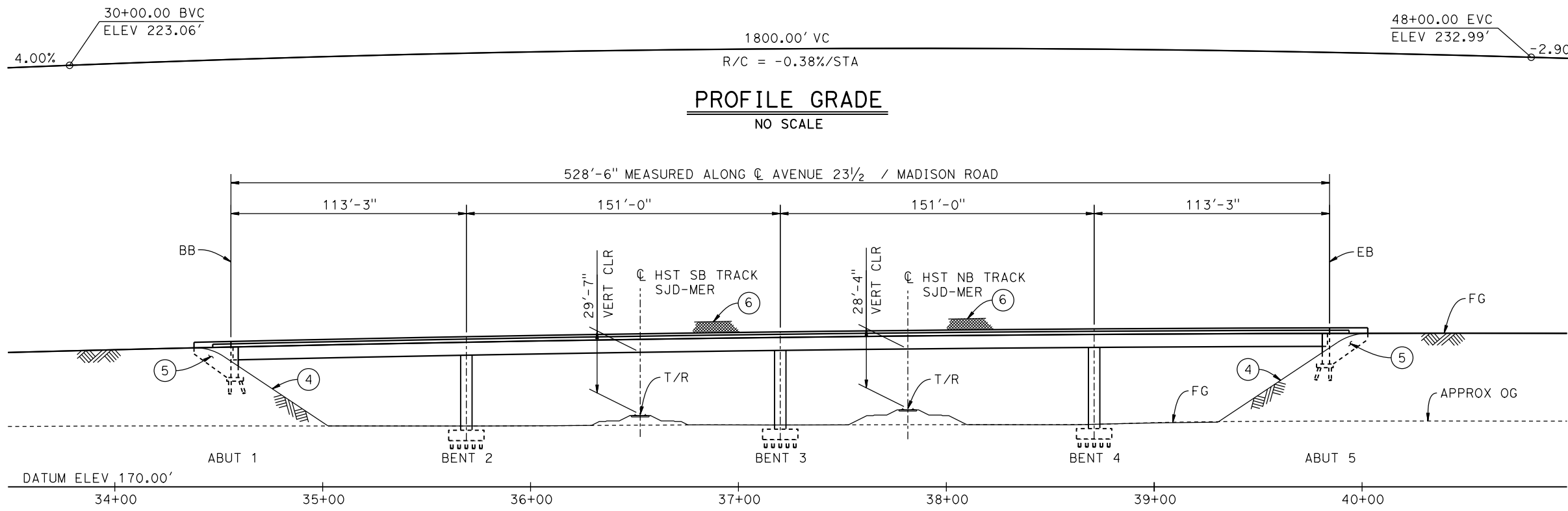
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
ELM ROAD (ROAD 12) UNDERPASS

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1630-A

SCALE
AS SHOWN

SHEET NO.

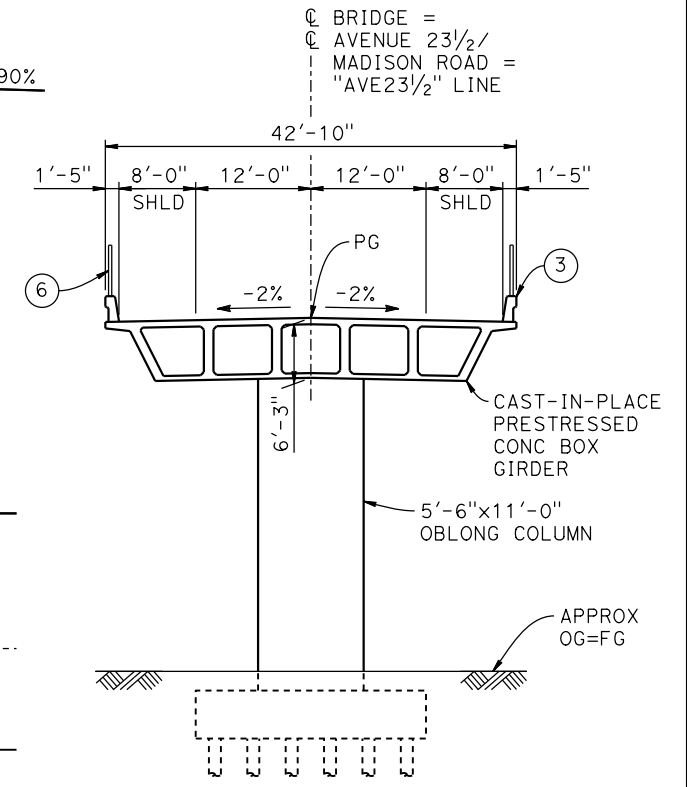


PROFILE GRADE
NO SCALE

ELEVATION
1"=30'

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'



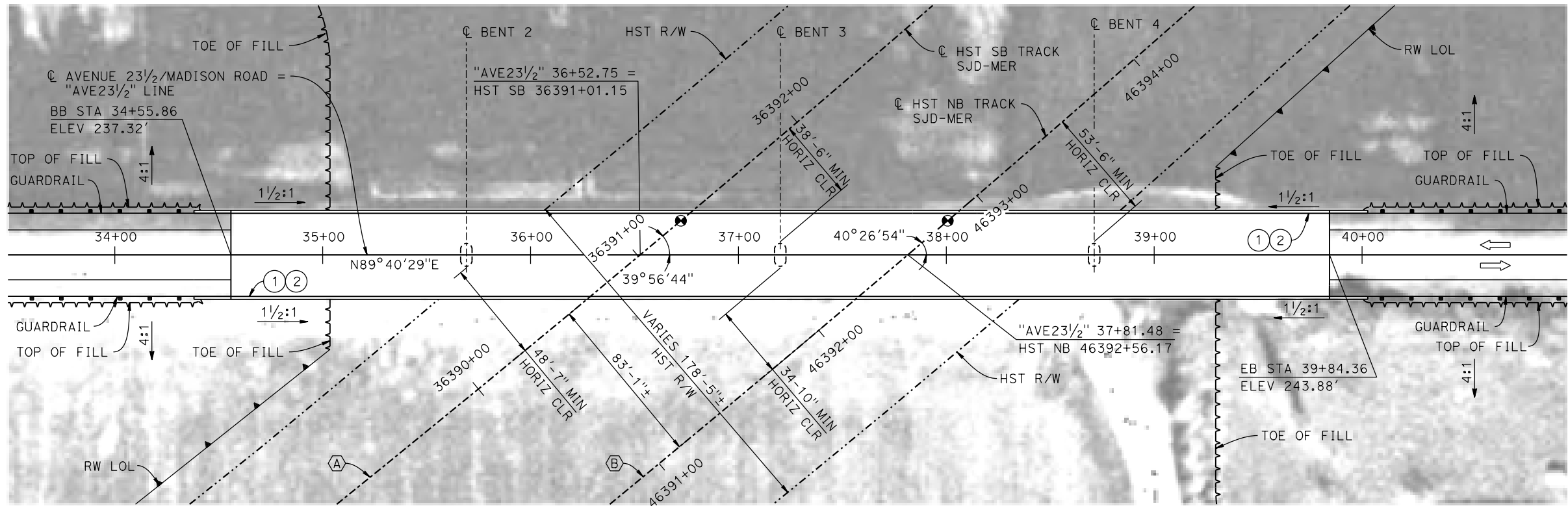
TYPICAL SECTION
1" = 10'

LEGEND:

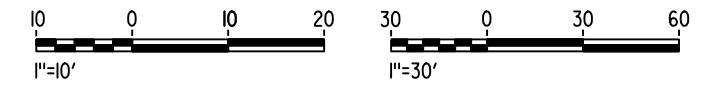
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇨ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "MADISON ROAD OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 736 MOD
- ④ SLOPE PAVING (1/2H:1V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

NOTES:

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



PLAN
1"=30'



06-FEB-2015 16:17 MF-ST-K1635-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. KIDWELL

CHECKED BY
S. J. S.

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

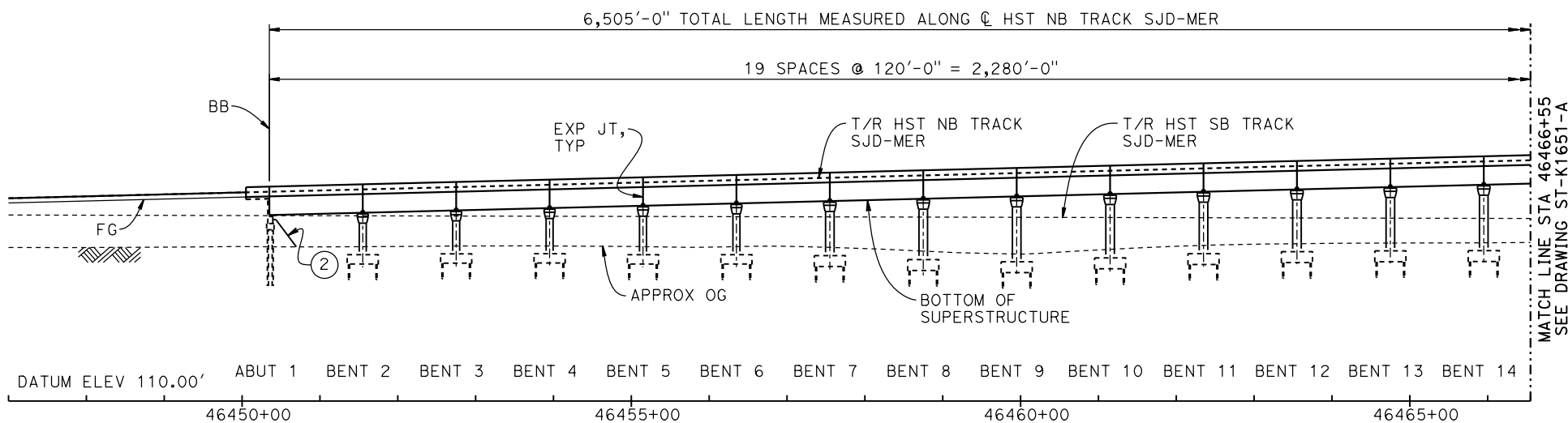
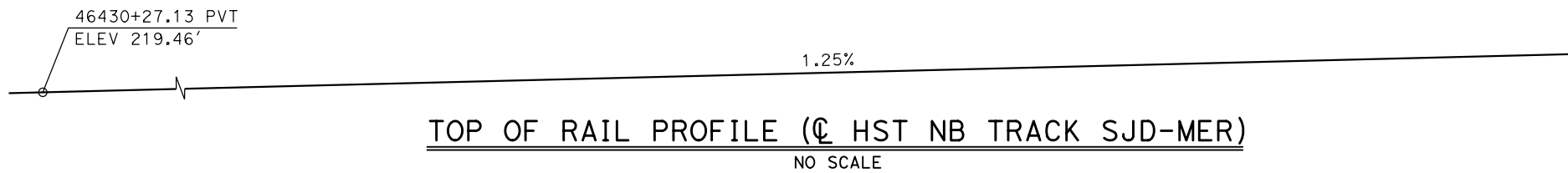
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
MADISON ROAD (AVENUE 23 1/2) OVERHEAD

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1635-A

SCALE
AS SHOWN

SHEET NO.



LEGEND:

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

CURVE SJD-MER 1 NB (A)

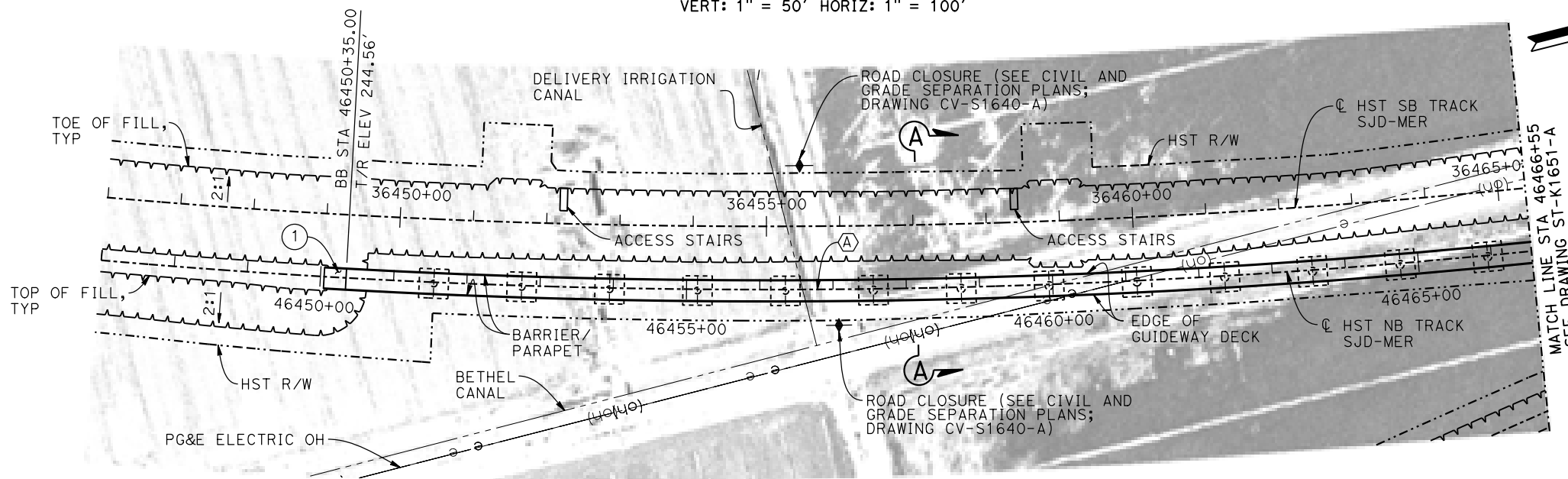
R = 10,376.50'
LS = 1,500.00'

TEMPORARY TRAFFIC OPENINGS

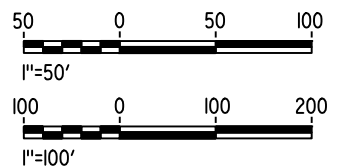
VEHICULAR TRAFFIC		FALSEWORK OPENING REQD (HORIZ X VERT)	
1. <u> </u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION			
AVENUE 25/WASHINGTON RD	46483+65	32'X16.5'	2-WAY
AVENUE 25½	46510+03	32'X16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

1. 16" ∅ 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-K3650-A AND ST-K3651-A.
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-S1640-A AND CV-S1650-A.
5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-A AND CV-S1650-A.
6. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-A AND CV-S1650-A.
7. FOR WASHINGTON ROAD (AVENUE 25) UNDERPASS GENERAL PLAN AND TYPICAL SECTION, SEE DRAWINGS ST-K1450-A AND ST-K3450-A.
8. FOR ASH SLOUGH BRIDGE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1455-A AND ST-K3455-A.
9. FOR HST SB BRIDGE OVER ASH SLOUGH GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1655-A AND ST-K3655-A.



PLAN
1" = 100'



06-FEB-2015 15:40 MF-ST-K1650-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
R. 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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 1 OF 5

CONTRACT NO.
HSR08-05

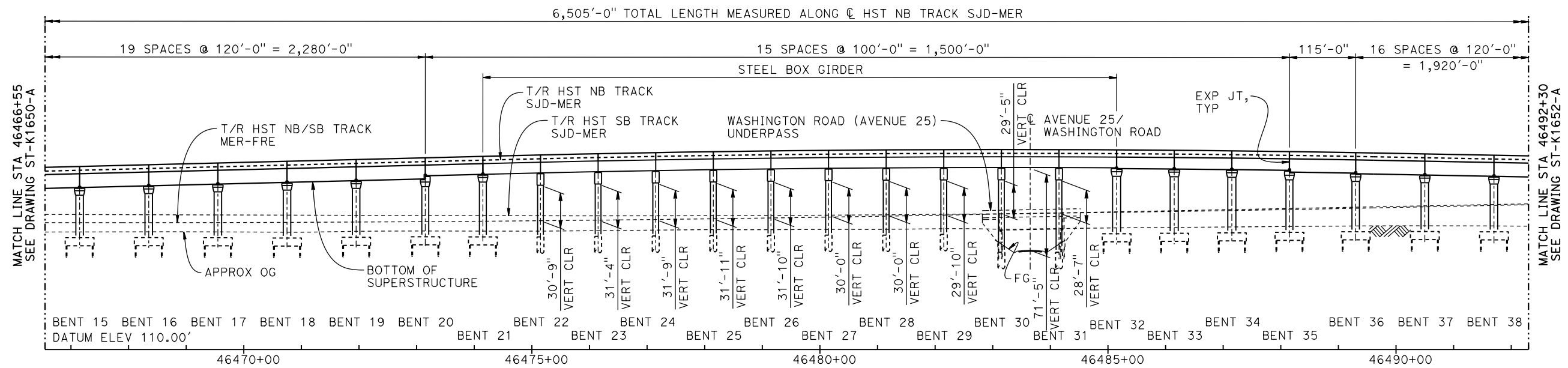
DRAWING NO.
ST-K1650-A

SCALE
AS SHOWN

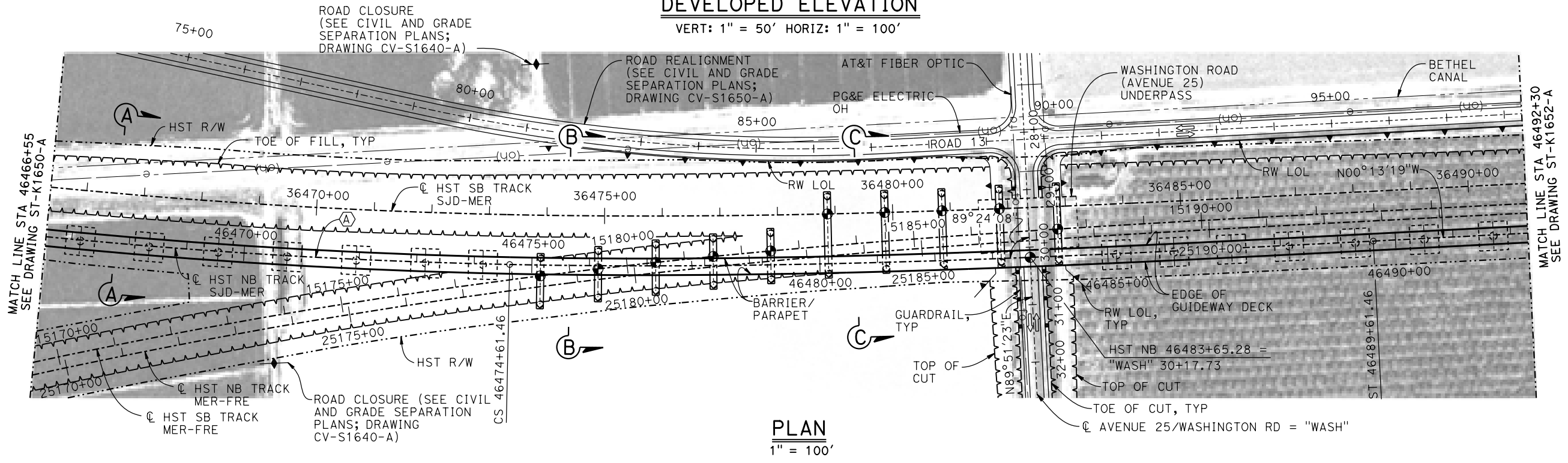
SHEET NO.



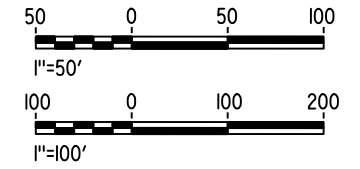
TOP OF RAIL PROFILE (☉ HST NB TRACK SJD-MER)
NO SCALE



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



PLAN
1" = 100'



06-FEB-2015 15:41 MF-ST-K1651-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.
DRAWN BY
R. 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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

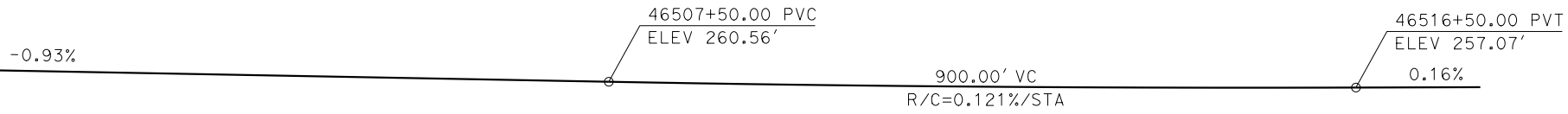
AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 2 OF 5

CONTRACT NO.
HSR08-05

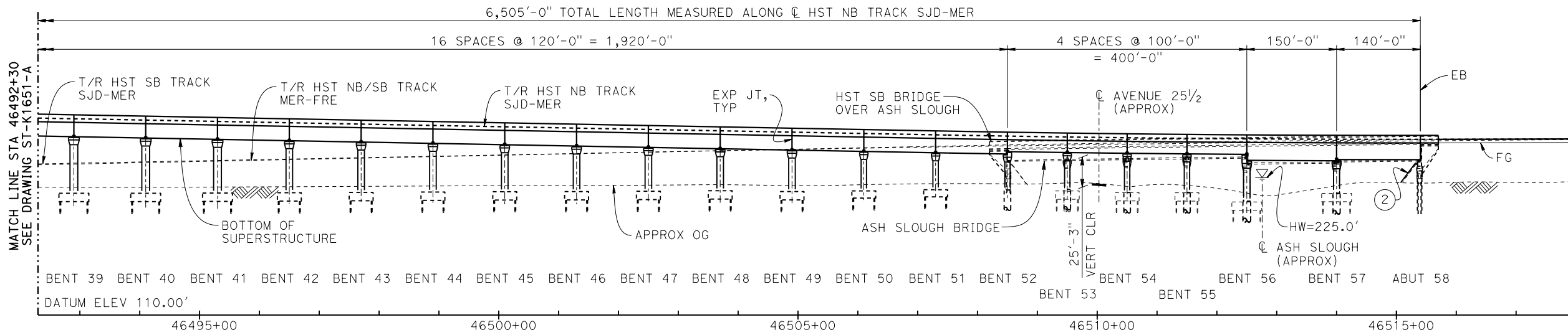
DRAWING NO.
ST-K1651-A

SCALE
AS SHOWN

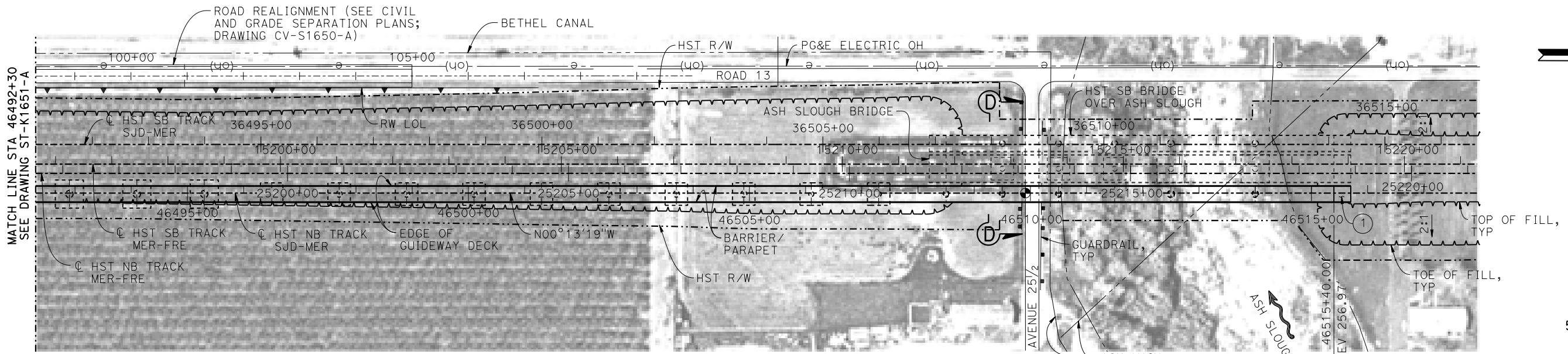
SHEET NO.



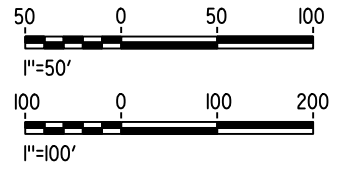
TOP OF RAIL PROFILE (C HST NB TRACK SJD-MER)
NO SCALE



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



PLAN
1" = 100'



16-MAR-2016 16:04 MF-ST-K1652-A.dgn

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

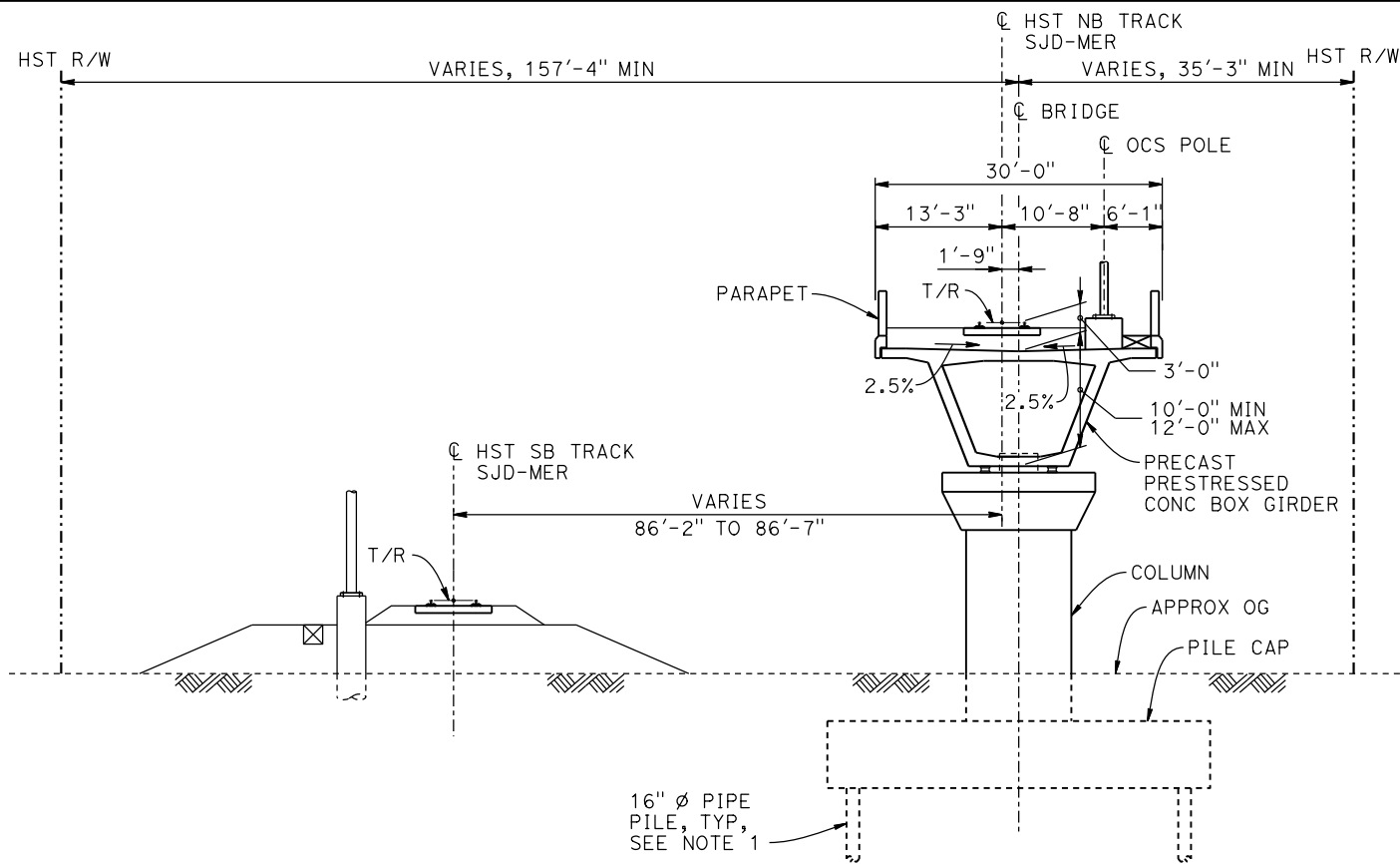
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 3 OF 5

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1652-A
SCALE
AS SHOWN
SHEET NO.

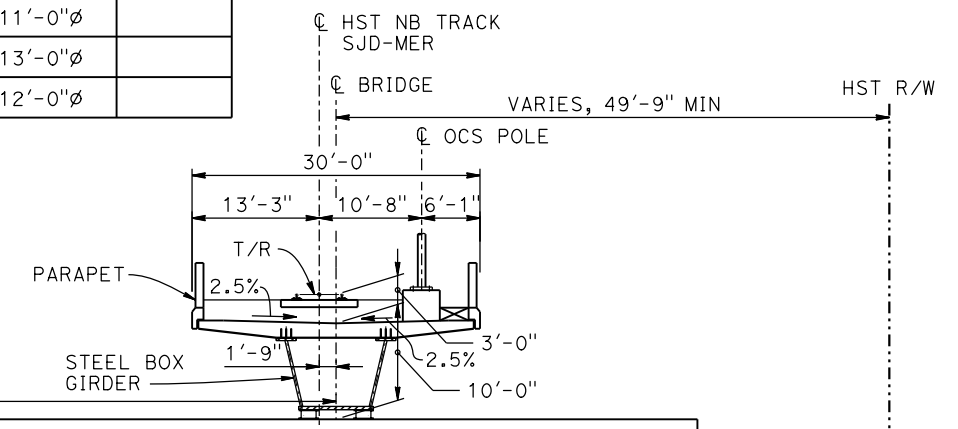


SECTION A-A
1" = 10'

BENT COLUMN SCHEDULE			
BENT	COLUMN TYPE	CIDH TYPE	"A"
2 - 6	9'-0"Ø		
7 - 14	11'-0"Ø		
15 - 19	13'-0"Ø		
20 - 21	12'-0"Ø		
22 - 26	2 - 10'-0"Ø		80'-0"
27	2 - 10'-0"Ø		134'-0"
28	2 - 10'-0"Ø		128'-0"
29	2 - 10'-0"Ø		123'-0"
30 - 31	2 - 10'-0"Ø		125'-6"
32 - 34	14'-0"Ø		
35	12'-0"Ø		
36 - 41	13'-0"Ø		
42 - 49	11'-0"Ø		
50 - 51	9'-0"Ø		
52 - 55	9'-0"Ø	11'-0"Ø	
56	11'-0"Ø	13'-0"Ø	
57	10'-0"Ø	12'-0"Ø	

NOTES:

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



SECTION B-B
1" = 10'



06-FEB-2015 15:42 MF-ST-K3650-A.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
R. 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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)

AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 4 OF 5

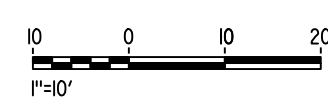
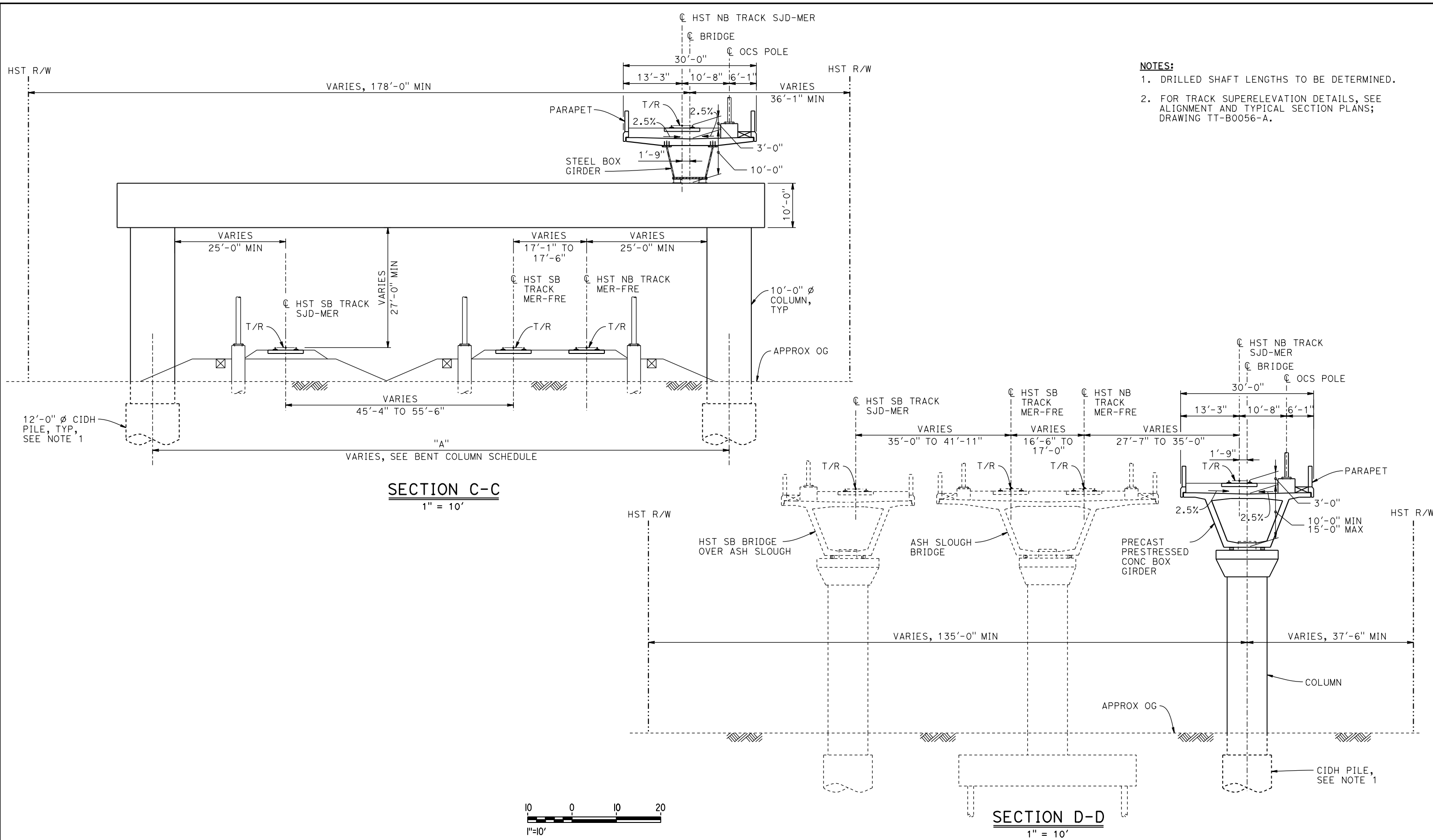
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K3650-A

SCALE
AS SHOWN

SHEET NO.

06-FEB-2015 15:51:42 MF-ST-K3651-A.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
R. 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
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)

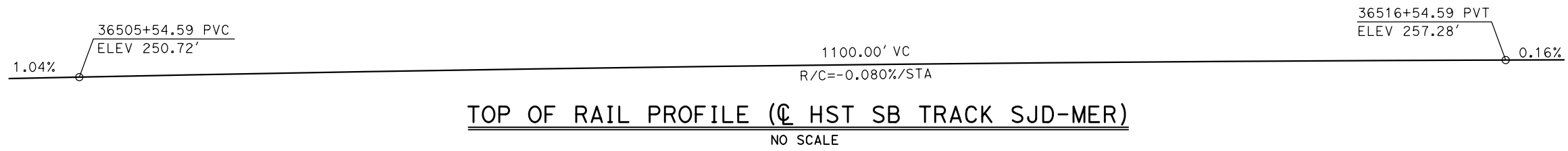
AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO - 5 OF 5

CONTRACT NO.
HSR08-05

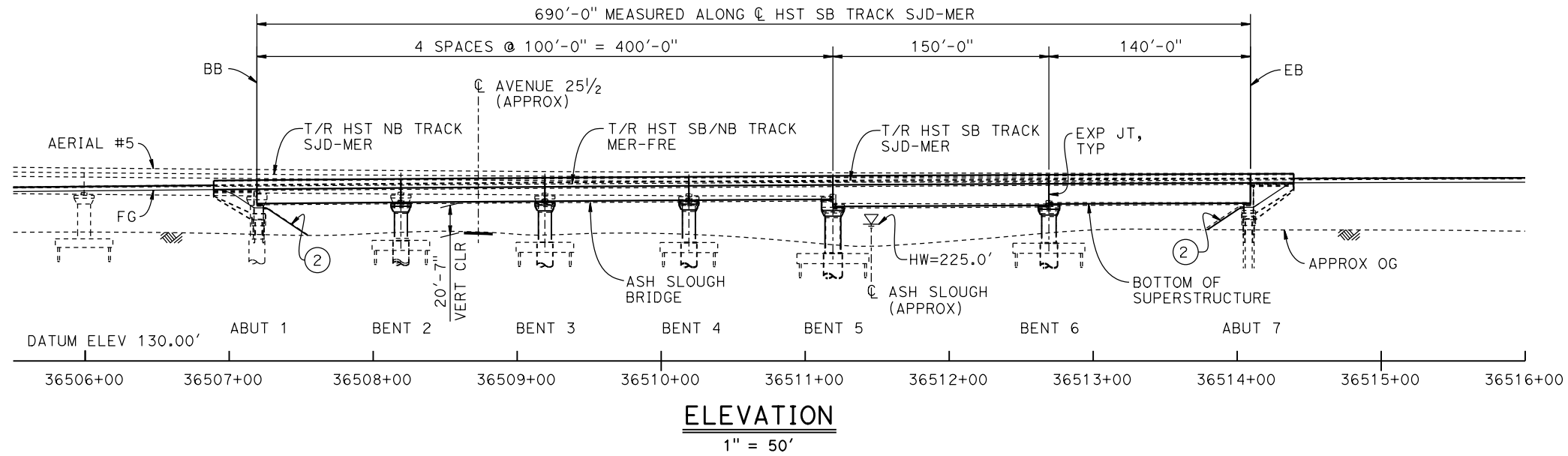
DRAWING NO.
ST-K3651-A

SCALE
AS SHOWN

SHEET NO.



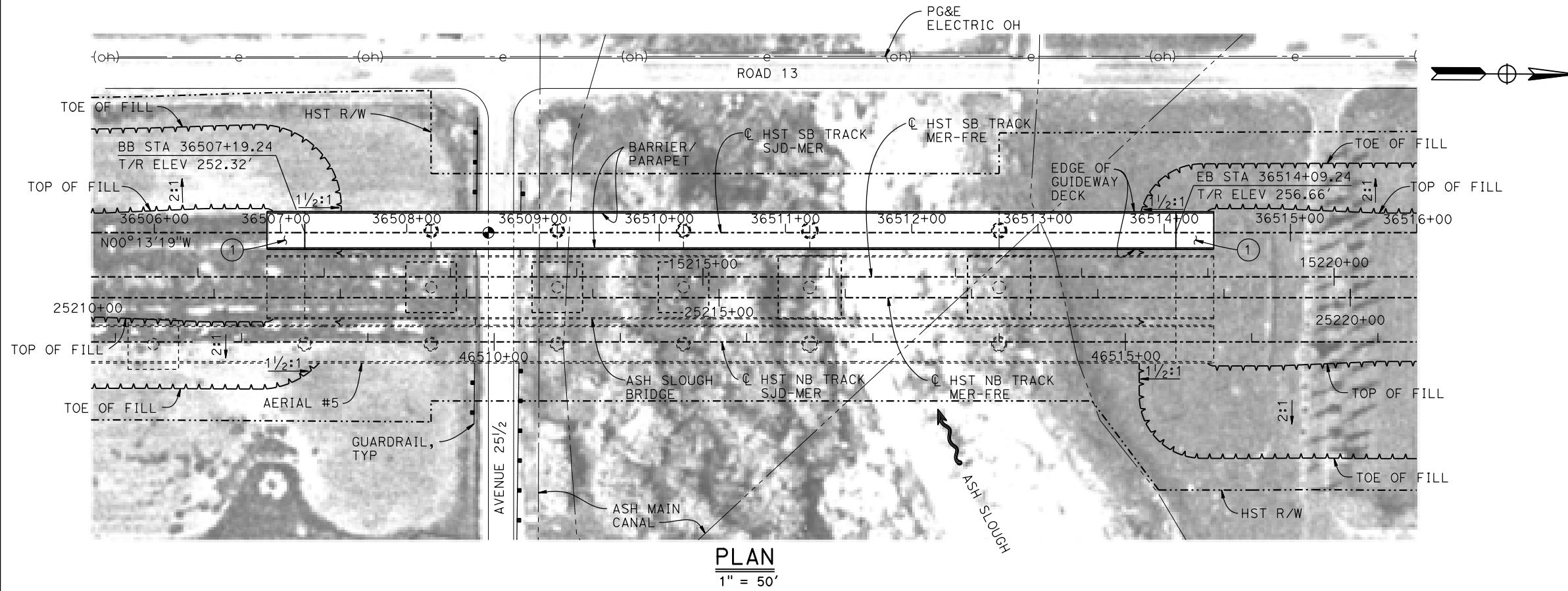
TOP OF RAIL PROFILE (☉ HST SB TRACK SJD-MER)
NO SCALE



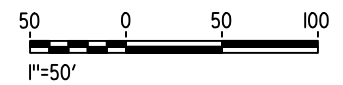
TEMPORARY TRAFFIC OPENINGS

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 25½	36508+73 32'x16.5' 2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.	

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



- 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-K3655-A.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1650-A.
 - FOR GUARDRAIL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1650-A.
 - FOR ASH SLOUGH BRIDGE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1455-A AND ST-K3455-A.
 - FOR AERIAL #5 - NORTHBOUND OVER HST MERCED TO FRESNO GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1650-A TO ST-K1652-A, ST-K3650-A AND ST-K3651-A.



06-FEB-2015 15:58 MF-ST-K1655-A.dgn

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

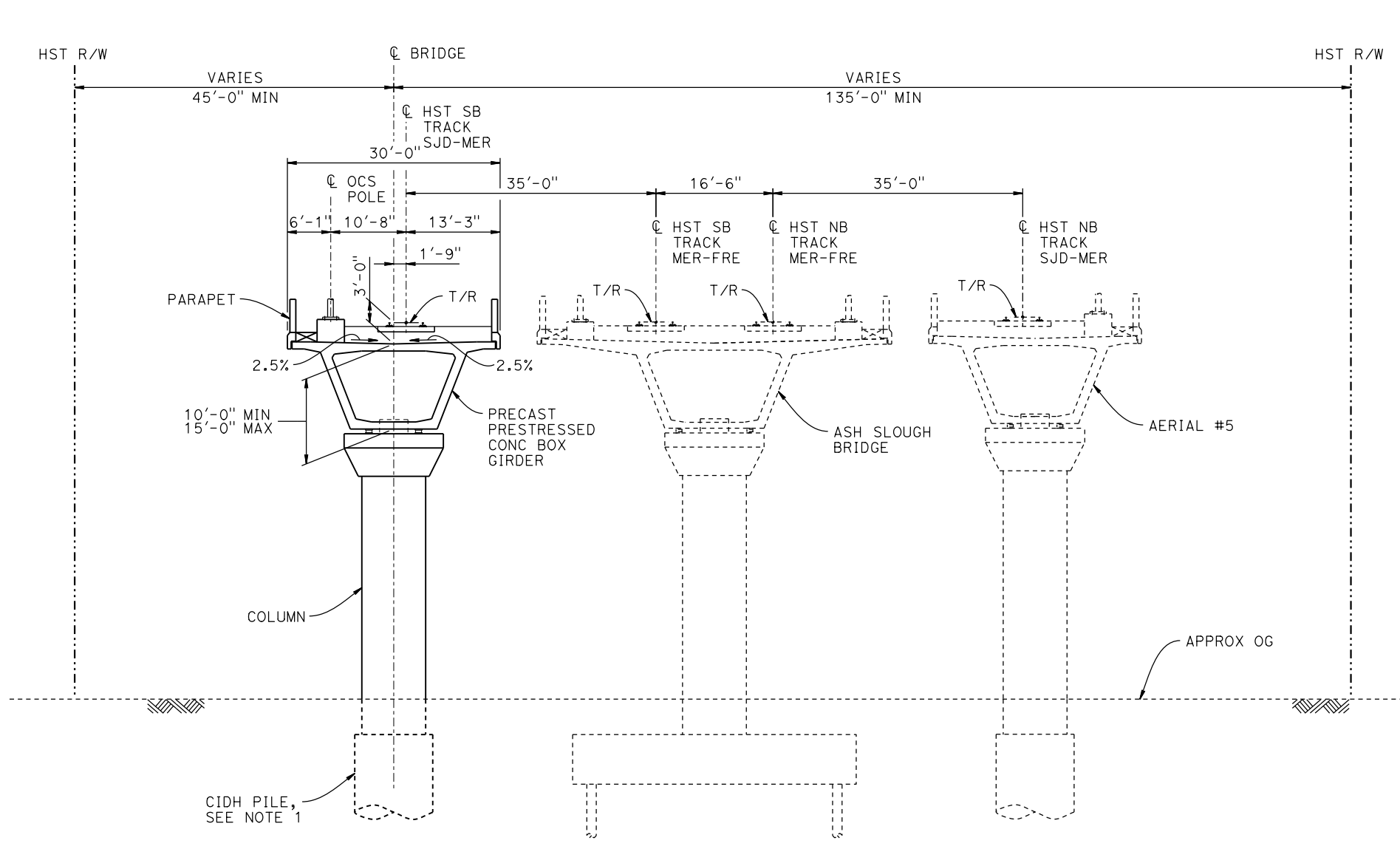
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
HST SB BRIDGE OVER ASH SLOUGH - 1 OF 2

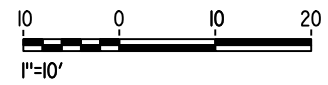
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1655-A
SCALE AS SHOWN
SHEET NO.



BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2 - 4	9'-0" ϕ	11'-0" ϕ
5	11'-0" ϕ	13'-0" ϕ
6	10'-0" ϕ	12'-0" ϕ

NOTES:
 1. DRILLED SHAFT LENGTHS TO BE DETERMINED.

TYPICAL SECTION
 1"=10'



06-FEB-2015 15:58 MF-ST-K3655-A.dgn

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
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
 TYPICAL SECTION (SJD-MER)
 HST SB BRIDGE OVER ASH SLOUGH - 2 OF 2

CONTRACT NO.
HSR08-05
 DRAWING NO.
ST-K3655-A
 SCALE
AS SHOWN
 SHEET NO.

14-MAR-2016 13:38 MF-ST-B4001-B.dgn

PO05133A



- NOTES:**
- ST-K - INDICATES AERIAL, CROSSING, AND GRADE SEPARATION DRAWINGS
 - ST-T - INDICATES CUT AND COVER TUNNEL DRAWINGS



KEY PLAN

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
KEY MAP OF STRUCTURAL PLANS
SHEET 1 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-B4001-B

SCALE
N. T. S.

SHEET NO.

10-MAR-2016 7:13 MF-ST-B4002-B.dgn

PO05133G



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

KEY PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
A. 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

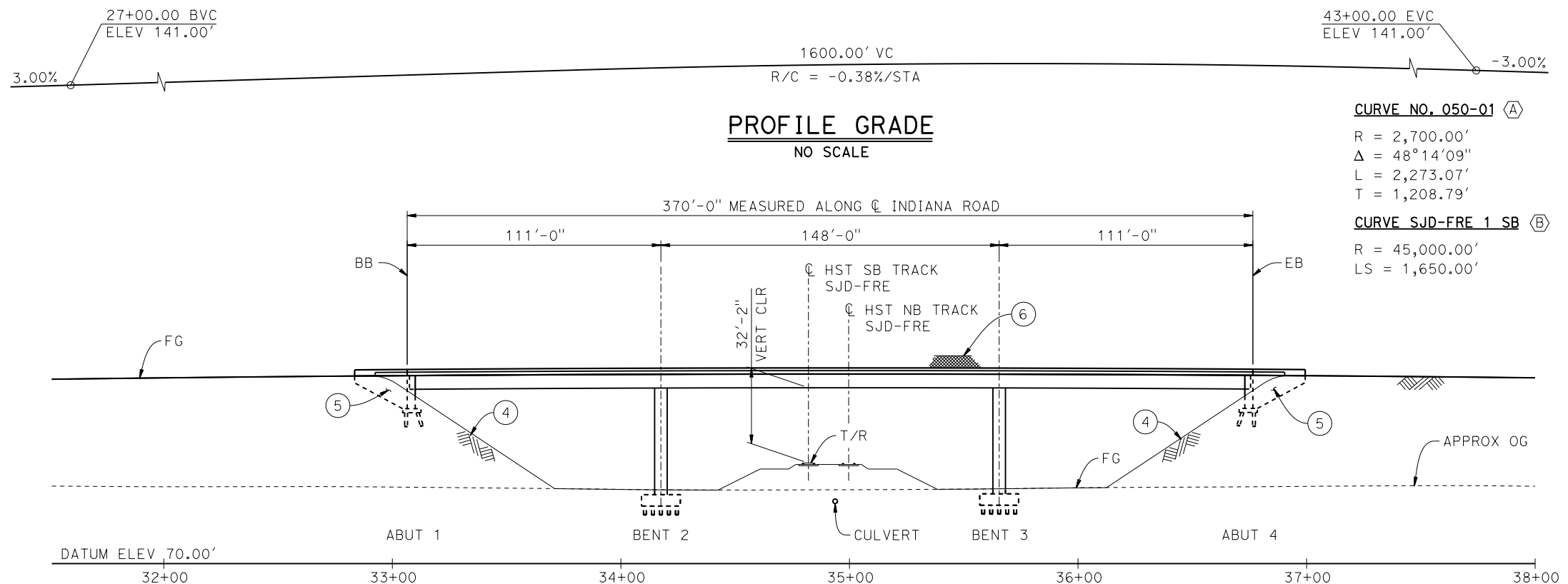
CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 KEY MAP OF STRUCTURAL PLANS
 SHEET 2 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-B4002-B

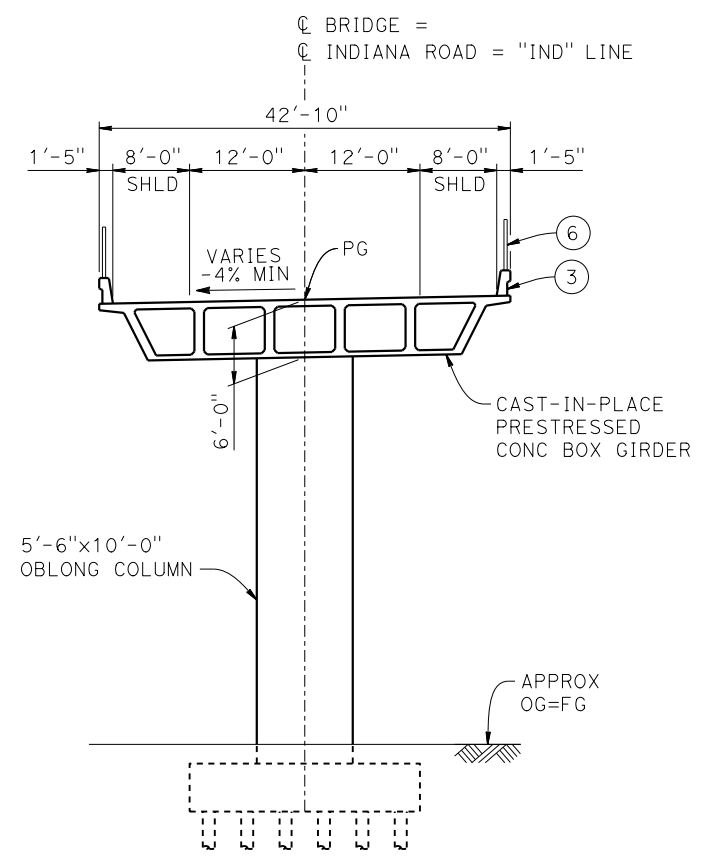
SCALE
N. T. S.

SHEET NO.



CURVE NO. 050-01 (A)
 R = 2,700.00'
 Δ = 48°14'09"
 L = 2,273.07'
 T = 1,208.79'

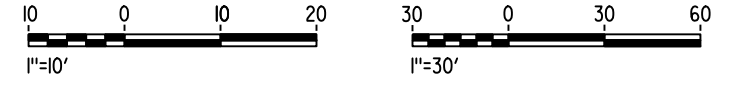
CURVE SJD-FRE 1 SB (B)
 R = 45,000.00'
 LS = 1,650.00'



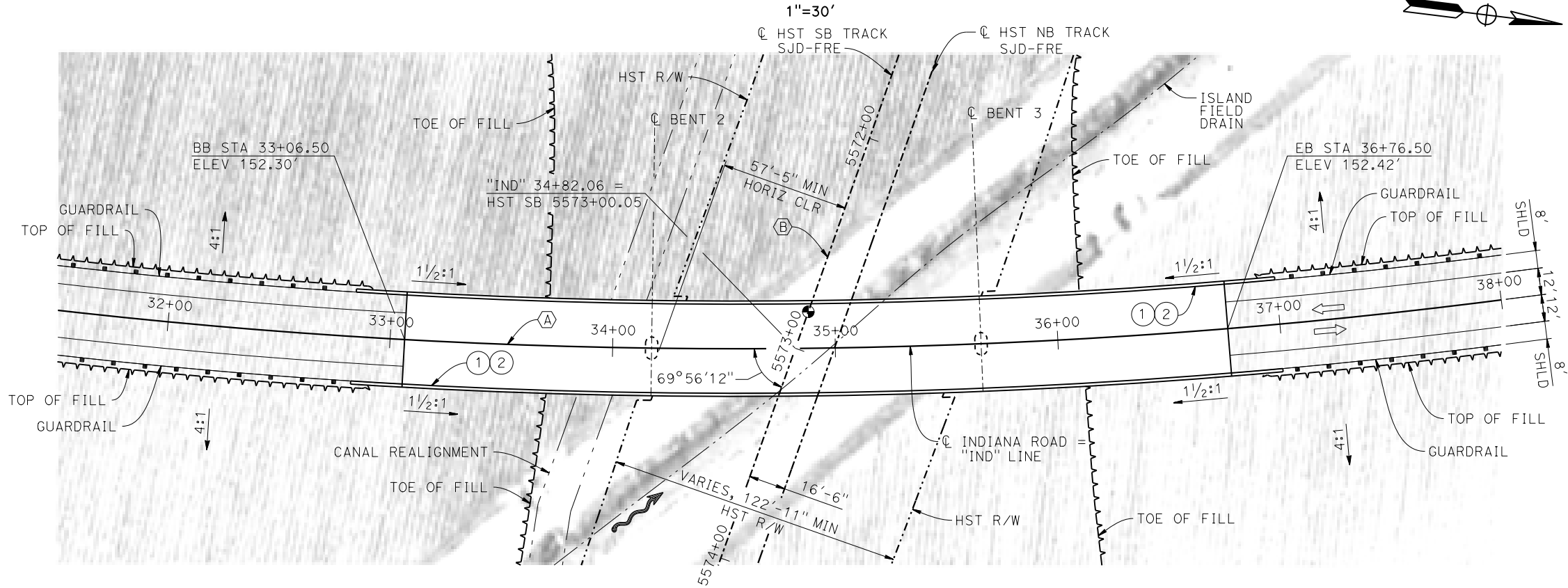
TYPICAL SECTION
 1" = 10'

- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - INDICATES DIRECTION OF FLOW
 - ⇨ INDICATES DIRECTION OF TRAFFIC
 - ① PAINT "INDIANA 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:**
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-S1050-B.
 3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-B.
 4. FOR CULVERT AND CANAL REALIGNMENT, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-B.



DEVELOPED ELEVATION
 1" = 30'



PLAN
 1" = 30'

10-MAR-2016 7:14 MF-ST-K1050-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
J. KIDWELL

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

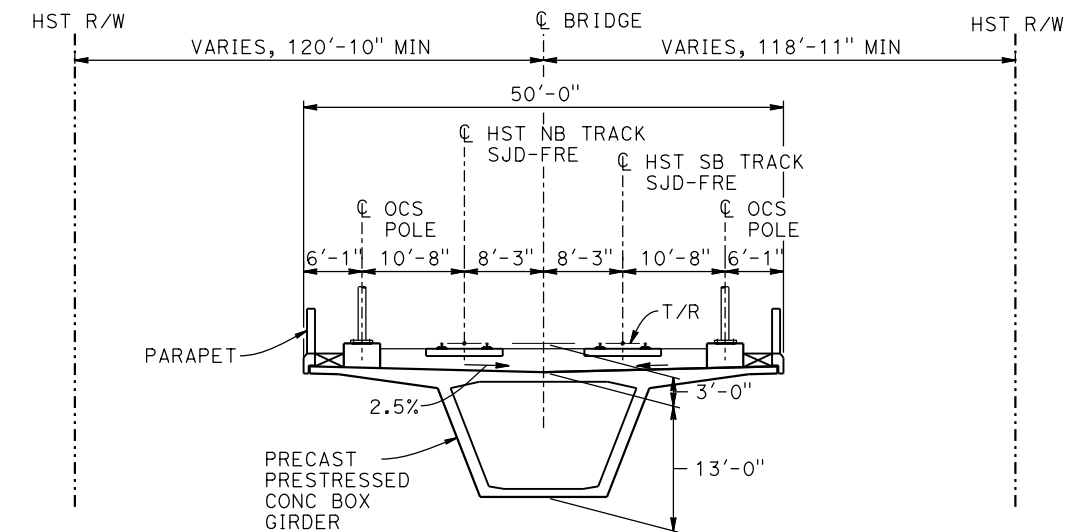
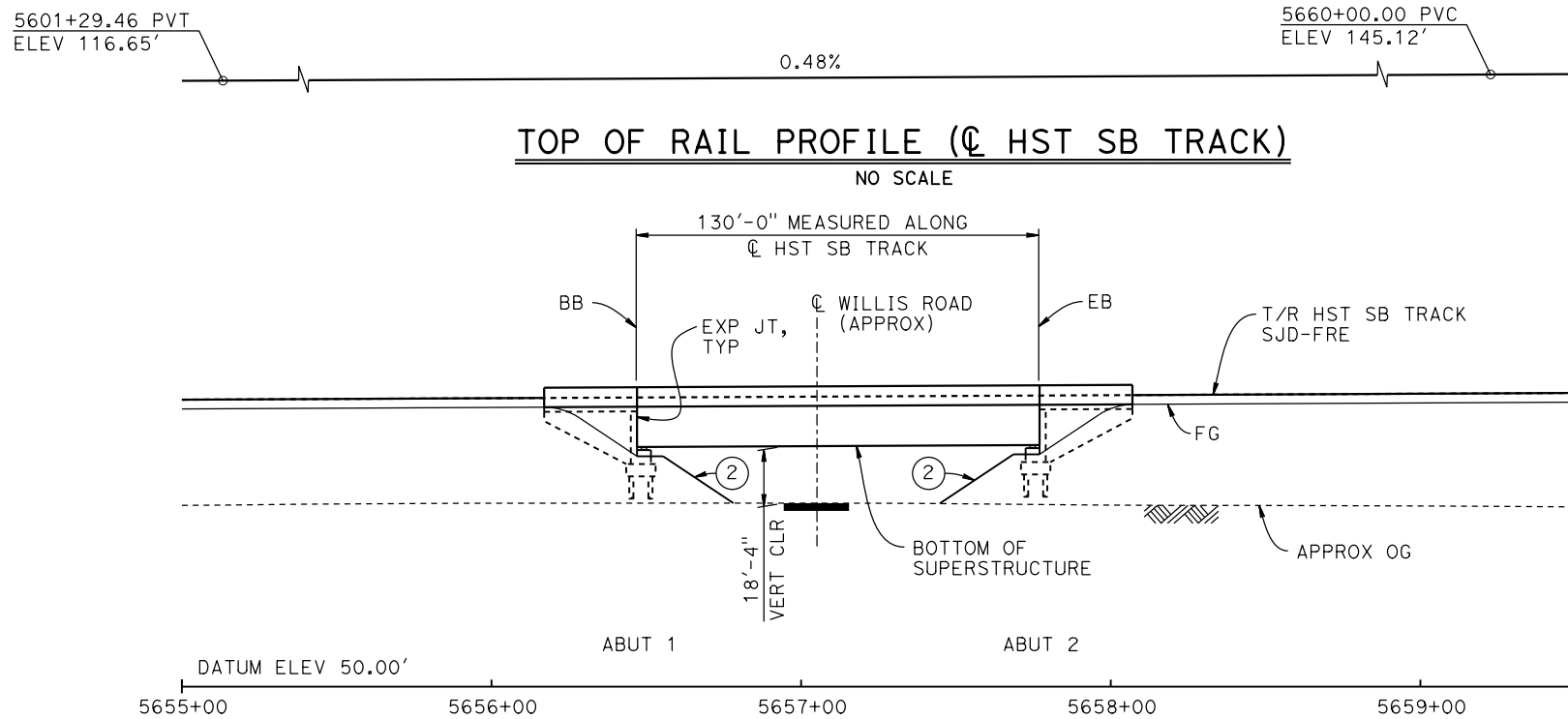
CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 INDIANA ROAD OVERHEAD

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1050-B

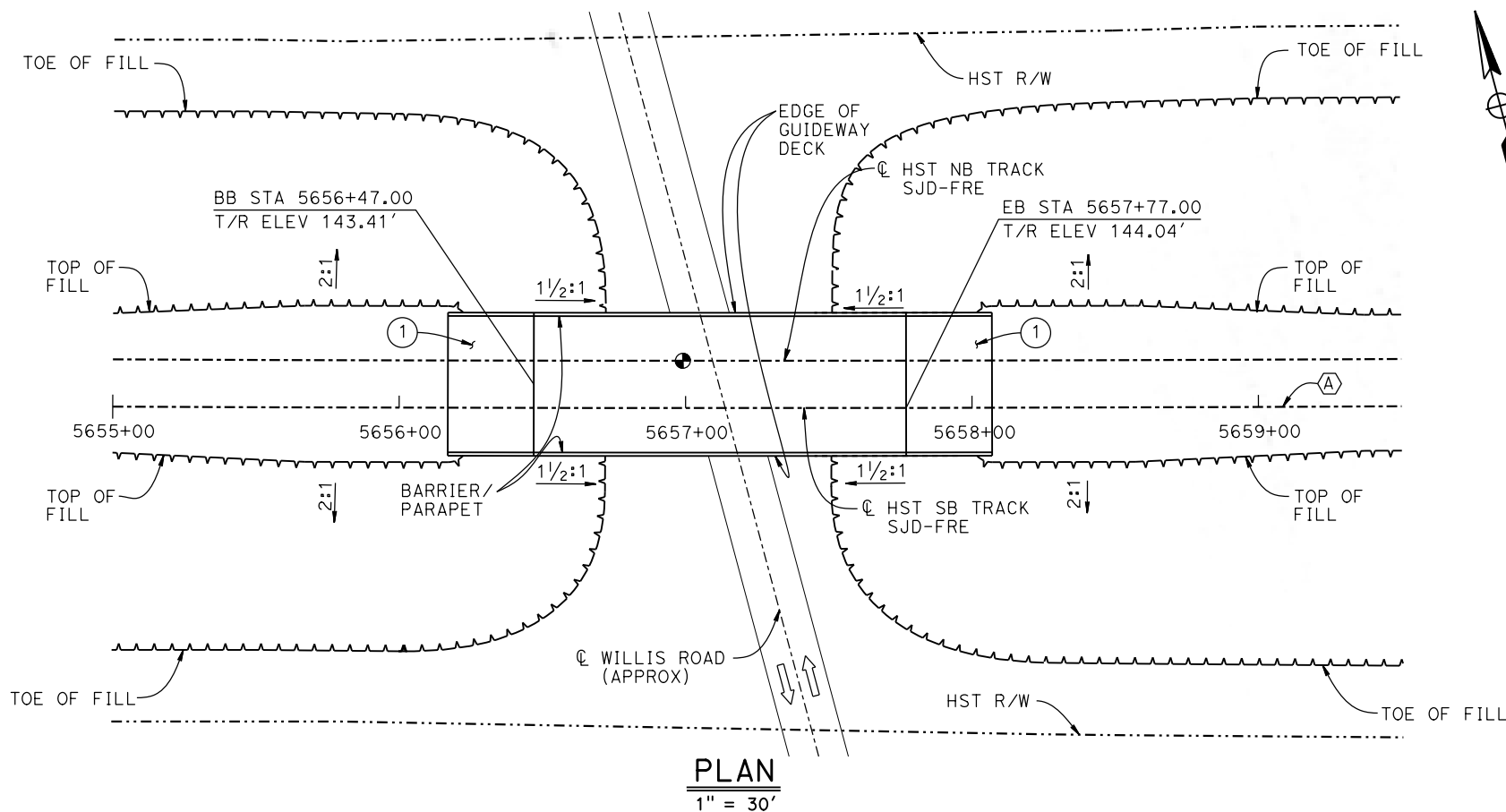
SCALE
AS SHOWN

SHEET NO.



TYPICAL SECTION
1" = 10'

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)	
WILLIS ROAD	5657+14	32'X16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

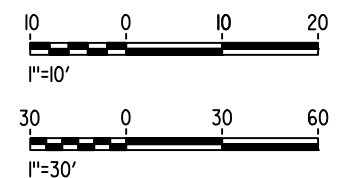
LEGEND:

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

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE 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-S1060-B.
4. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-B.

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



07-FEB-2015 10:31 MF-ST-K1060-B.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 02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

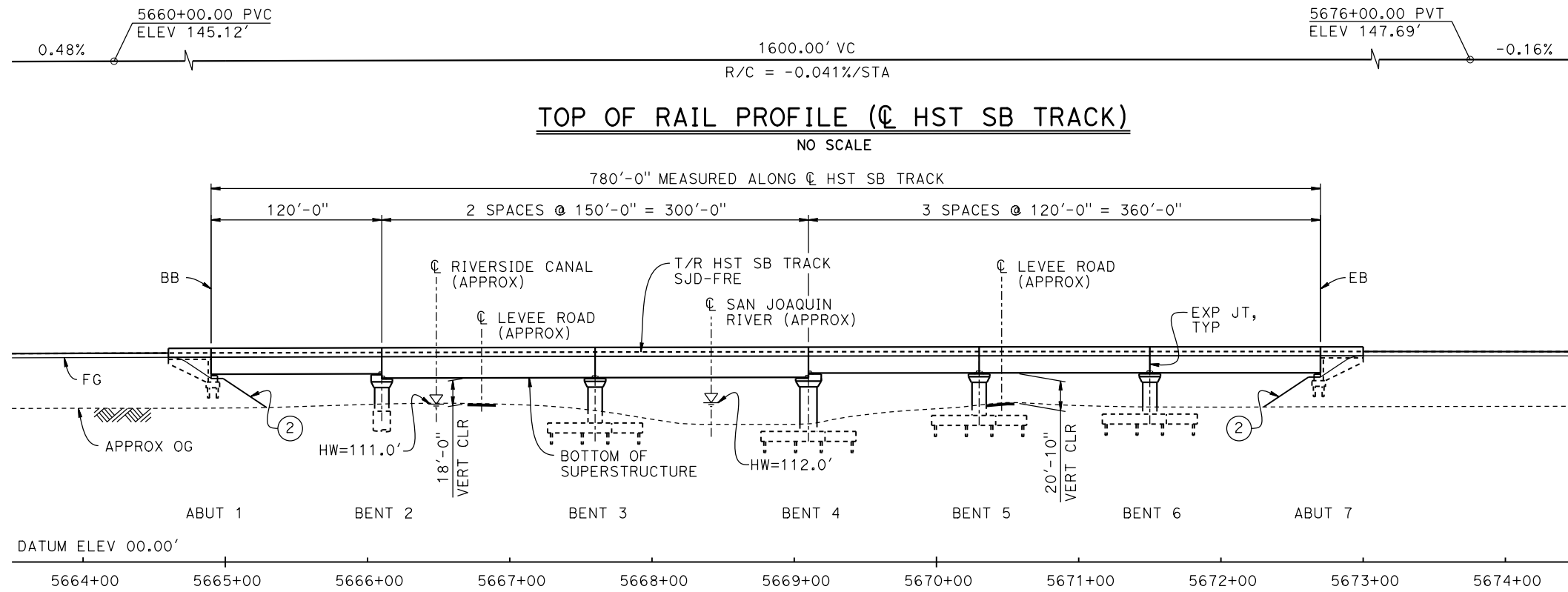
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
WILLIS ROAD UNDERPASS

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



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

DEVELOPED ELEVATION
1" = 50'

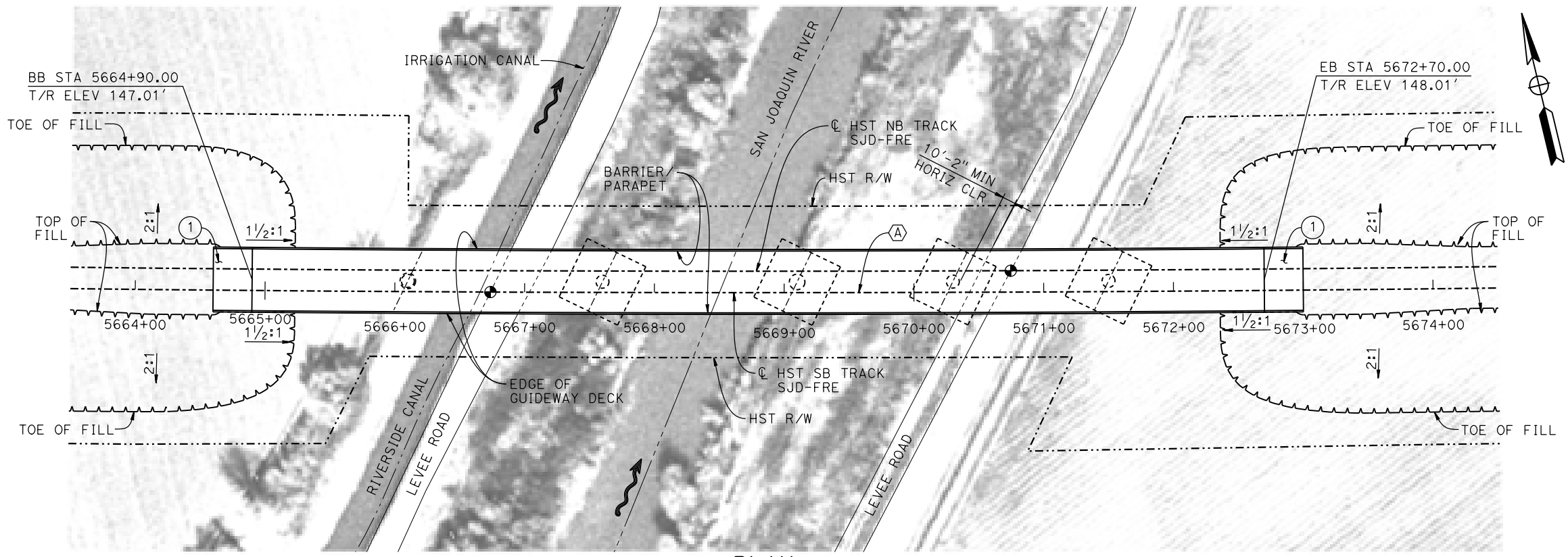
- LEGEND:**
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - INDICATES DIRECTION OF FLOW
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1 1/2 H:1 V)

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

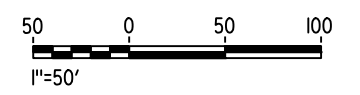
TEMPORARY TRAFFIC OPENINGS

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)	
LEVEE ROAD	5666+85	20'X16.5'	-
LEVEE ROAD	5670+55	20'X16.5'	-
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

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



PLAN
1" = 50'



07-FEB-2015 11:20 MF-ST-K1065-B.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
02/13/2015

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

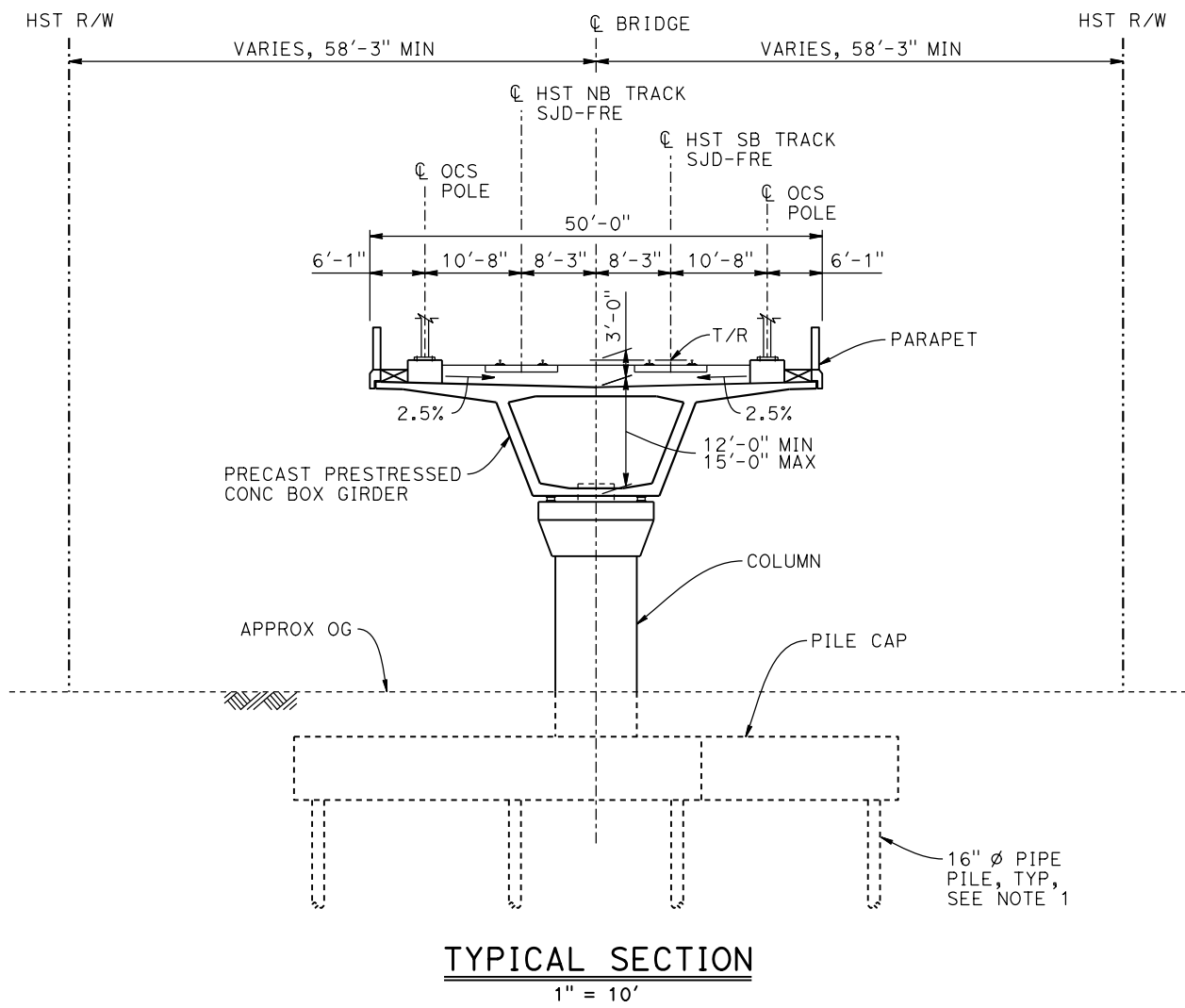


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
SAN JOAQUIN RIVER BRIDGE - 1 OF 2

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

MF-ST-K3065-B.dgn
 07-FEB-2015 11:21
 P0036110



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

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



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

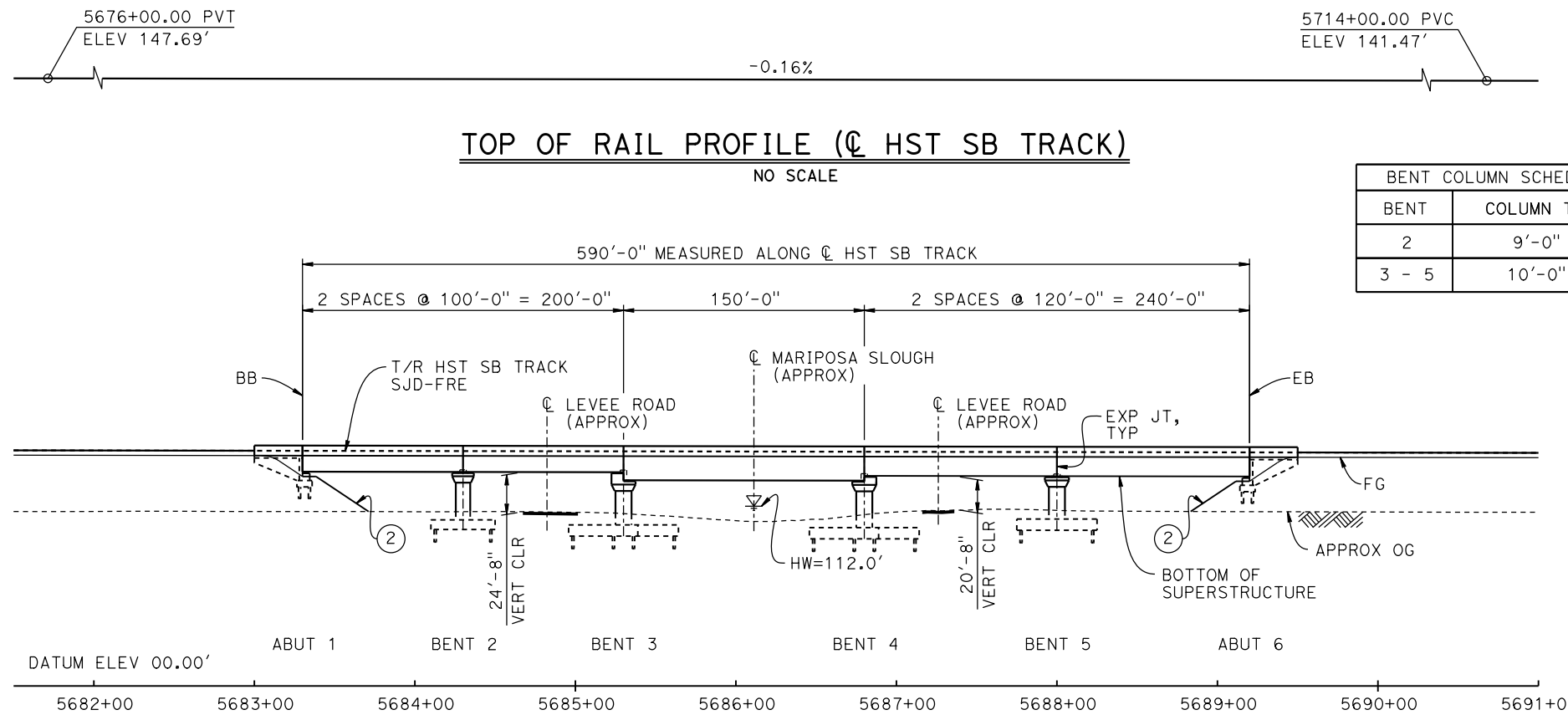
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

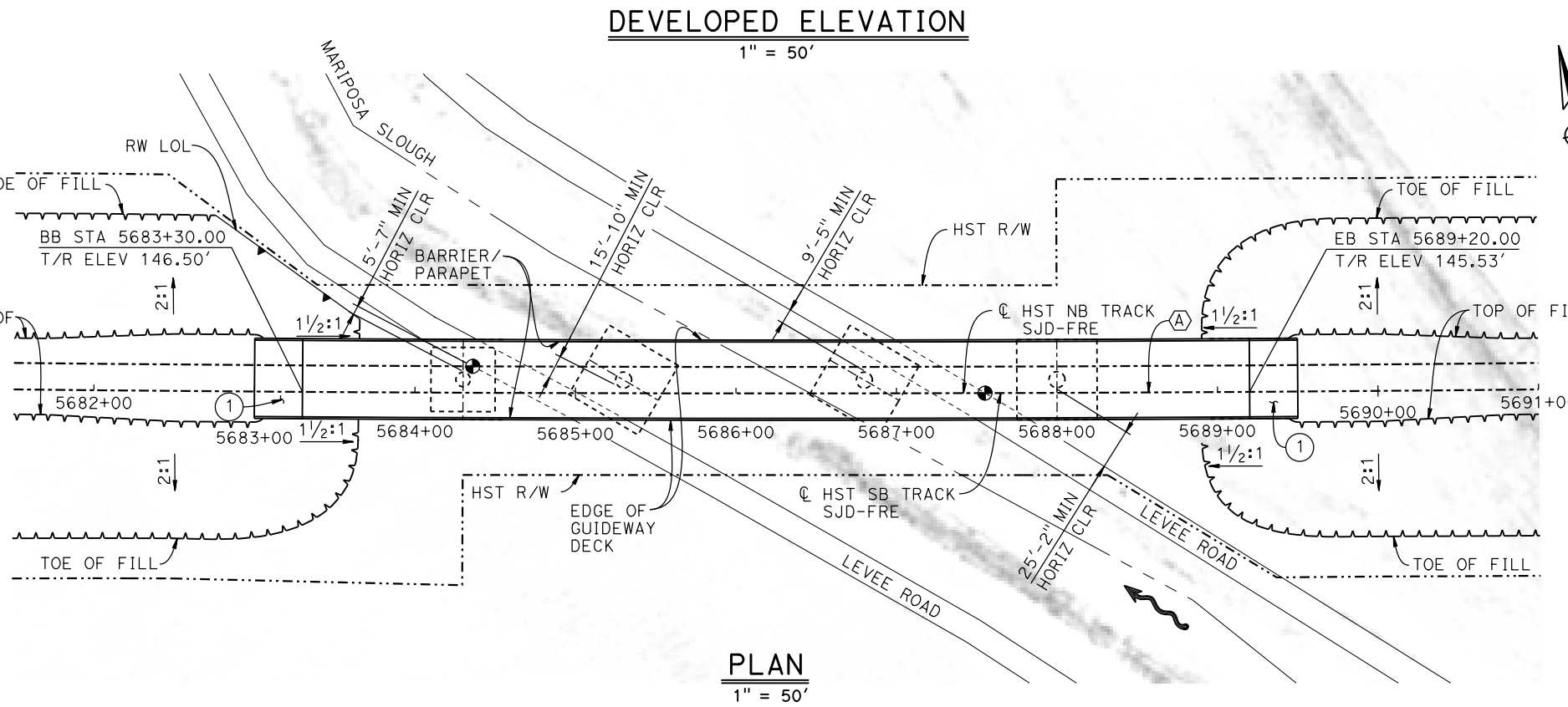
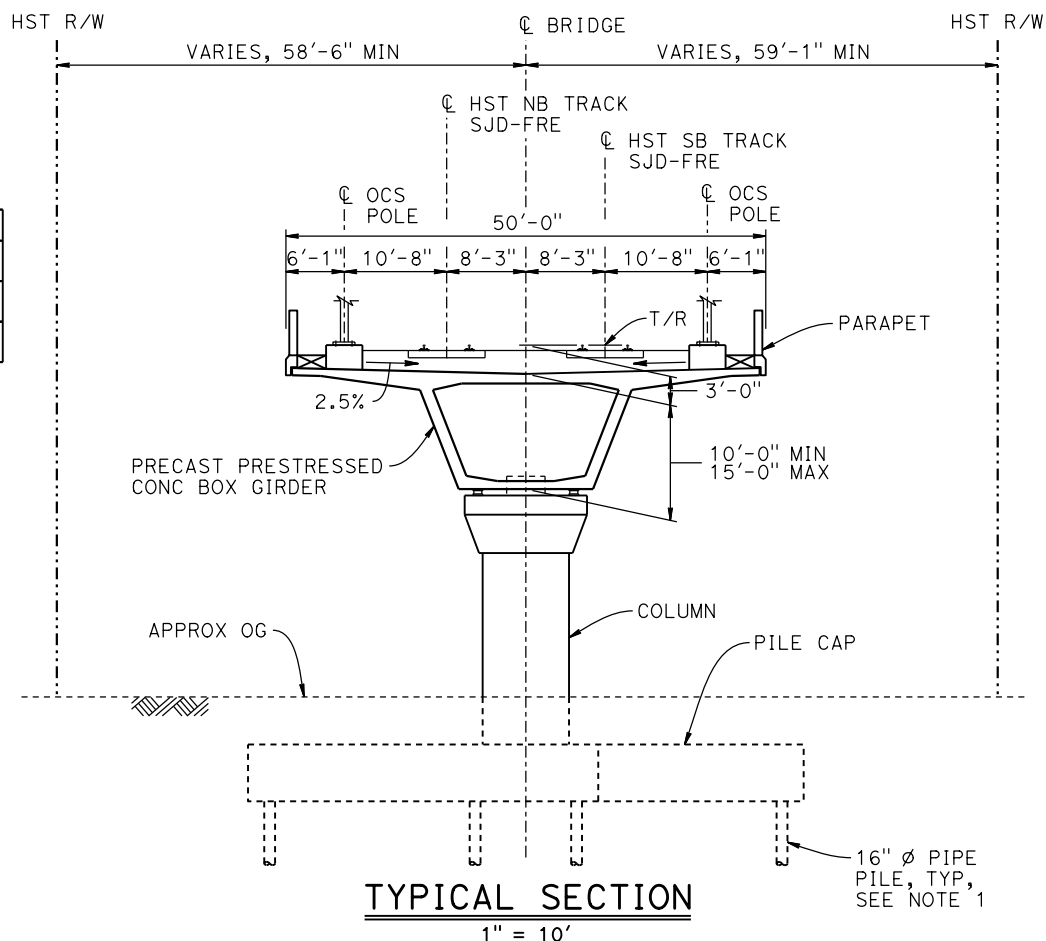


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 TYPICAL SECTION (SJD-FRE)
 SAN JOAQUIN RIVER BRIDGE - 2 OF 2

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



BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2	9'-0" ϕ
3 - 5	10'-0" ϕ



NOTES:

- 16" ϕ 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-S1070-B.
- FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1070-B.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-B.

LEGEND:

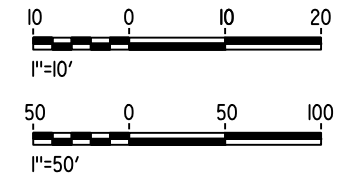
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES DIRECTION OF FLOW
- STRUCTURE APPROACH
- SLOPE PAVING (1 1/2 H:1 V)

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)	
LEVEE ROAD	5684+85	20'X16.5'	-
LEVEE ROAD	5687+40	20'X16.5'	-
3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

CURVE SJD-FRE 2 SB (A)

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



16-MAR-2016 16:17 MF-ST-K1070-B.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

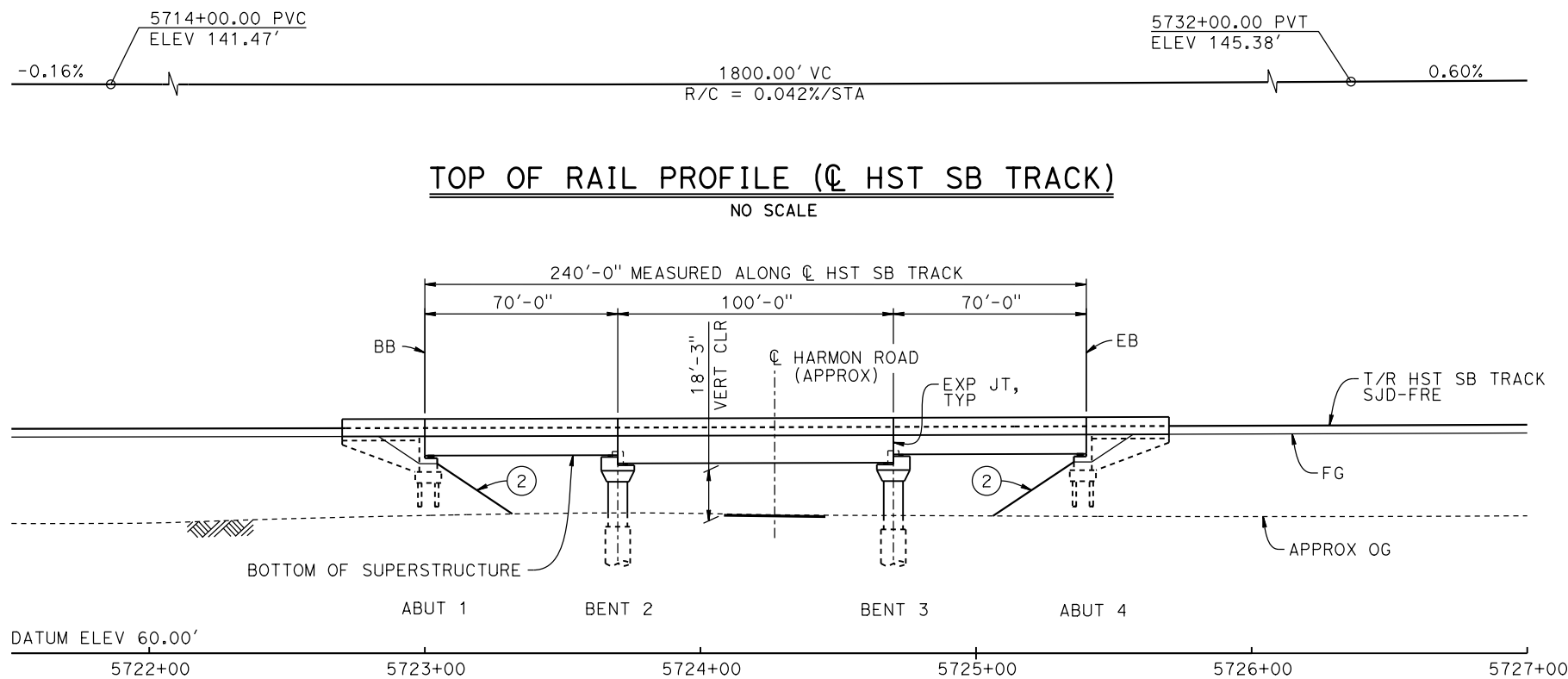
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
MARIPOSA SLOUGH BRIDGE

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1070-B

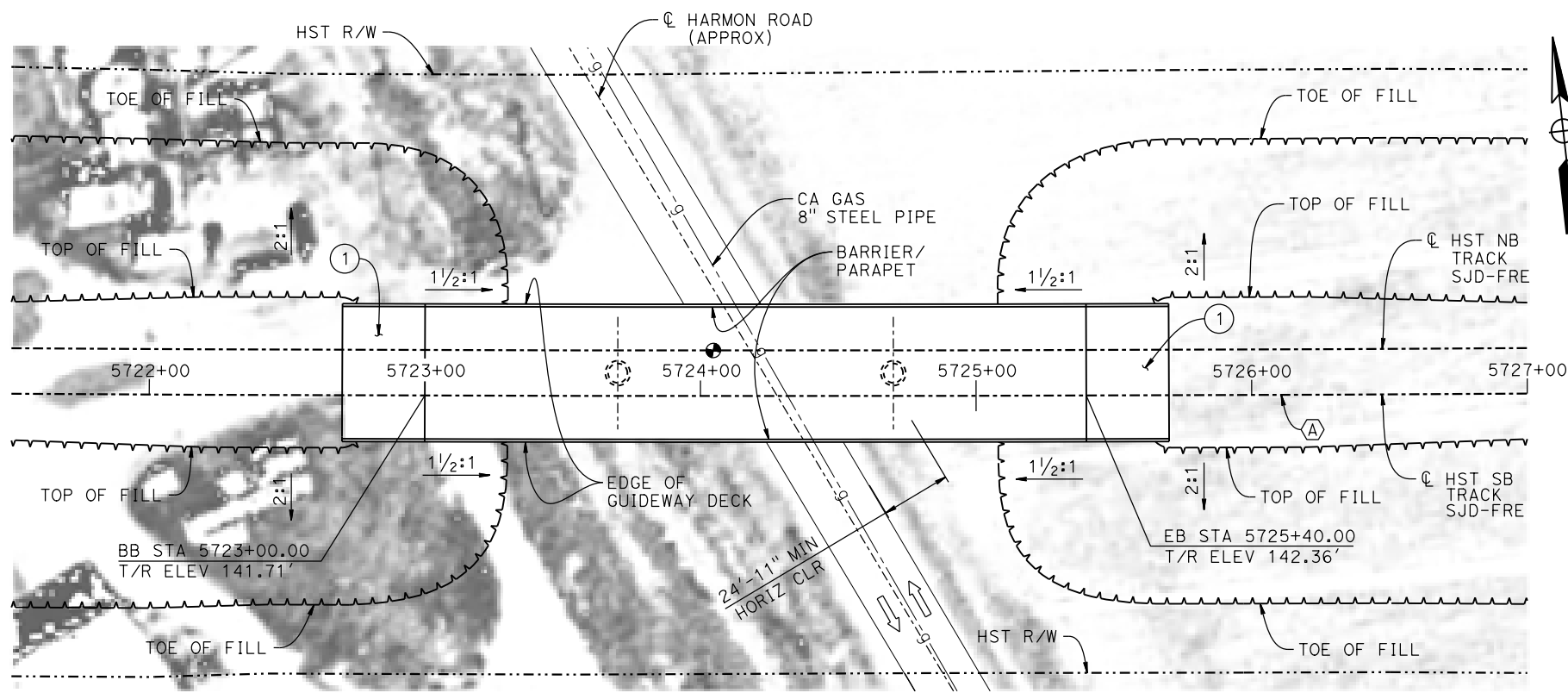
SCALE
AS SHOWN

SHEET NO.

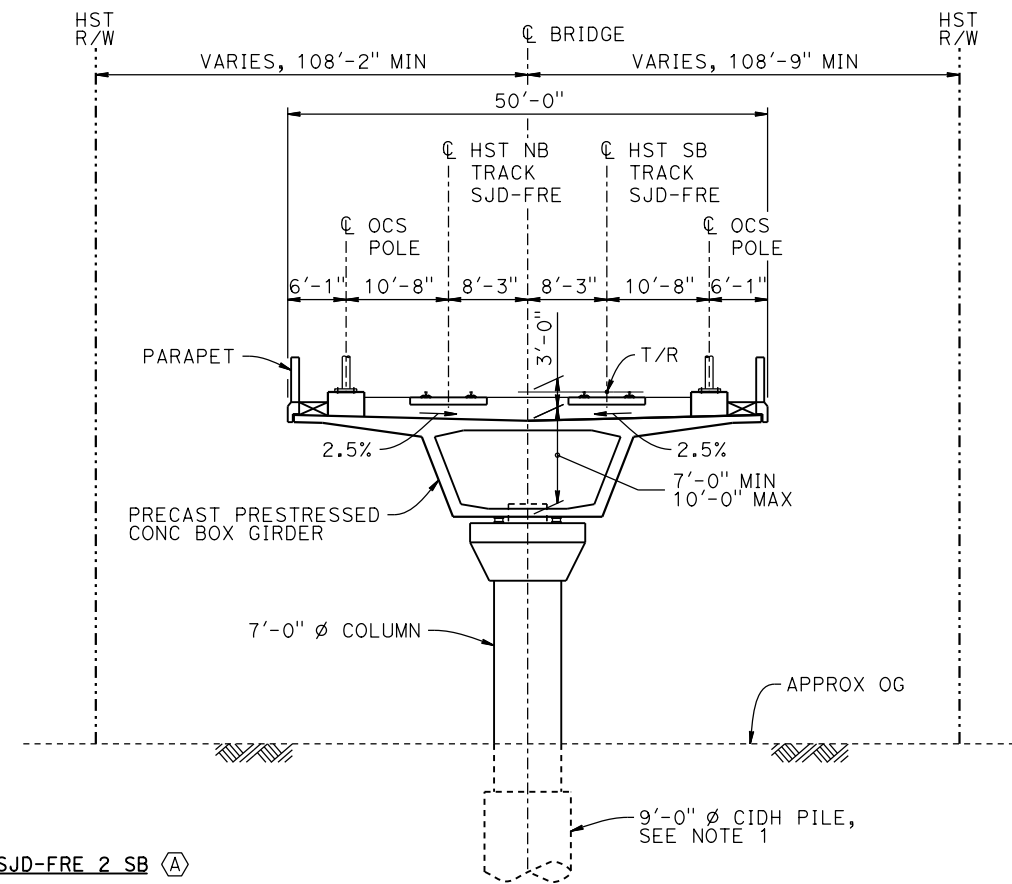


TOP OF RAIL PROFILE (Q HST SB TRACK)
NO SCALE

DEVELOPED ELEVATION
1" = 30'



PLAN
1" = 30'



TYPICAL SECTION
1" = 10'

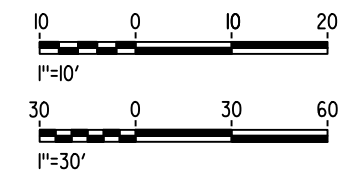
CURVE SJD-FRE 2 SB (A)
R = 45,016.50'
LS = 1,550.00'

- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ➔ INDICATES DIRECTION OF TRAFFIC
 - 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 DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1070-B.
 3. ANY EXISTING DIRT ROAD THAT CONFLICT WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 4. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0050-B.

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)
HARMON RD 5724+28	32'x16.5' 2-WAY
3. <input type="checkbox"/> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.	



MF-ST-K1075-B.dgn 07-FEB-2015 01:35 P0036110

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



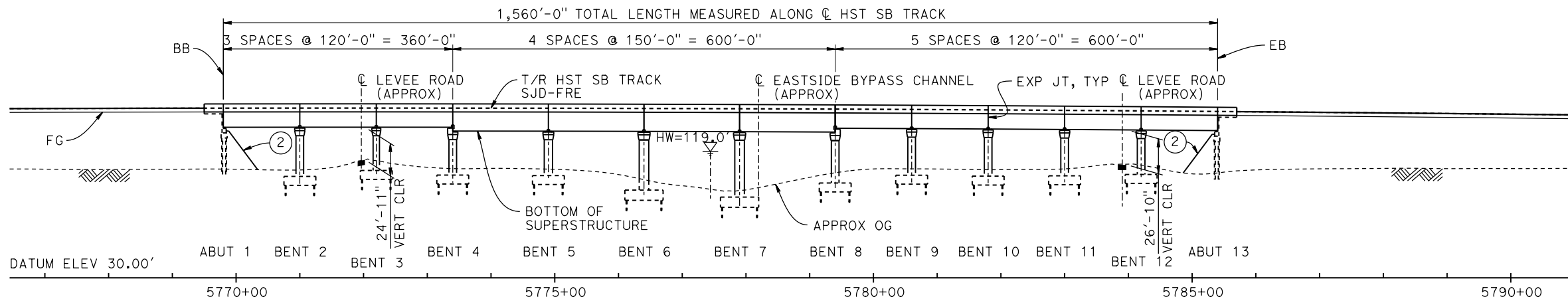
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
HARMON ROAD UNDERPASS

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



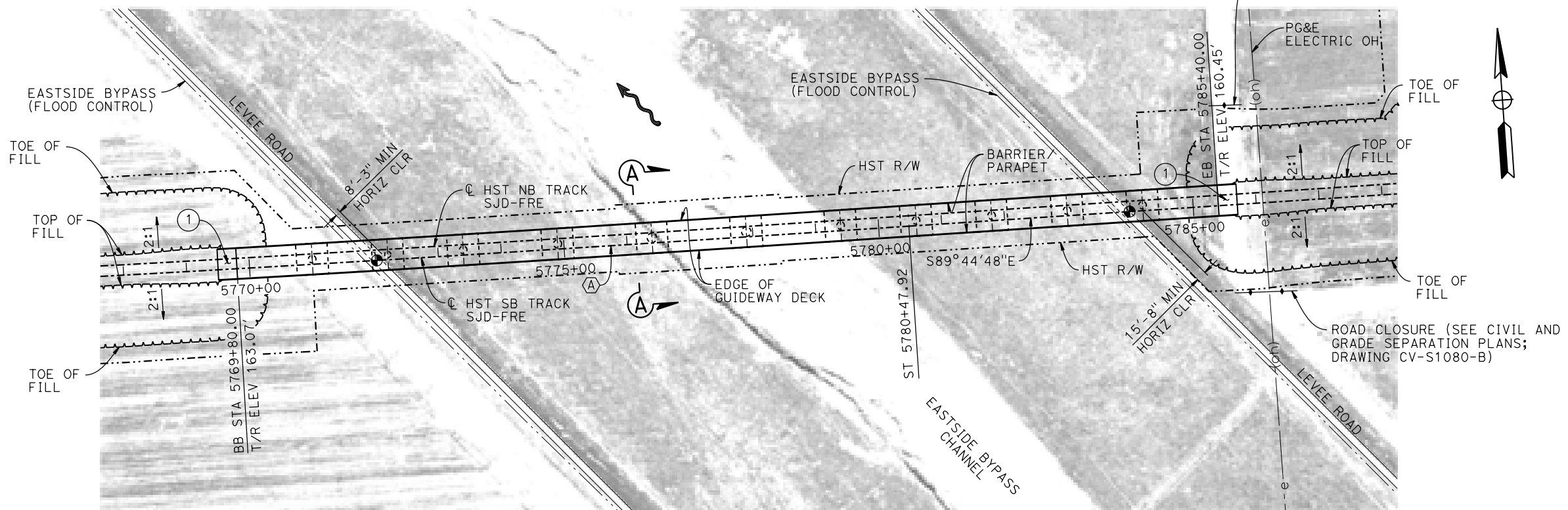
TOP OF RAIL PROFILE (C HST SB TRACK)

NO SCALE



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 (1 1/2H:1V)

CURVE SJD-FRE 2 SB (A)

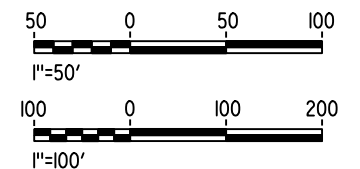
R = 45,016.50'
LS = 1,550.00'

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)	
LEVEE ROAD	5772+00	20'X16.5'	-
LEVEE ROAD	5783+90	20'X16.5'	-
3. <u> </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 AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3080-B.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH THE NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1080-B.



16-MAR-2016 16:17 MF-ST-K1080-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)

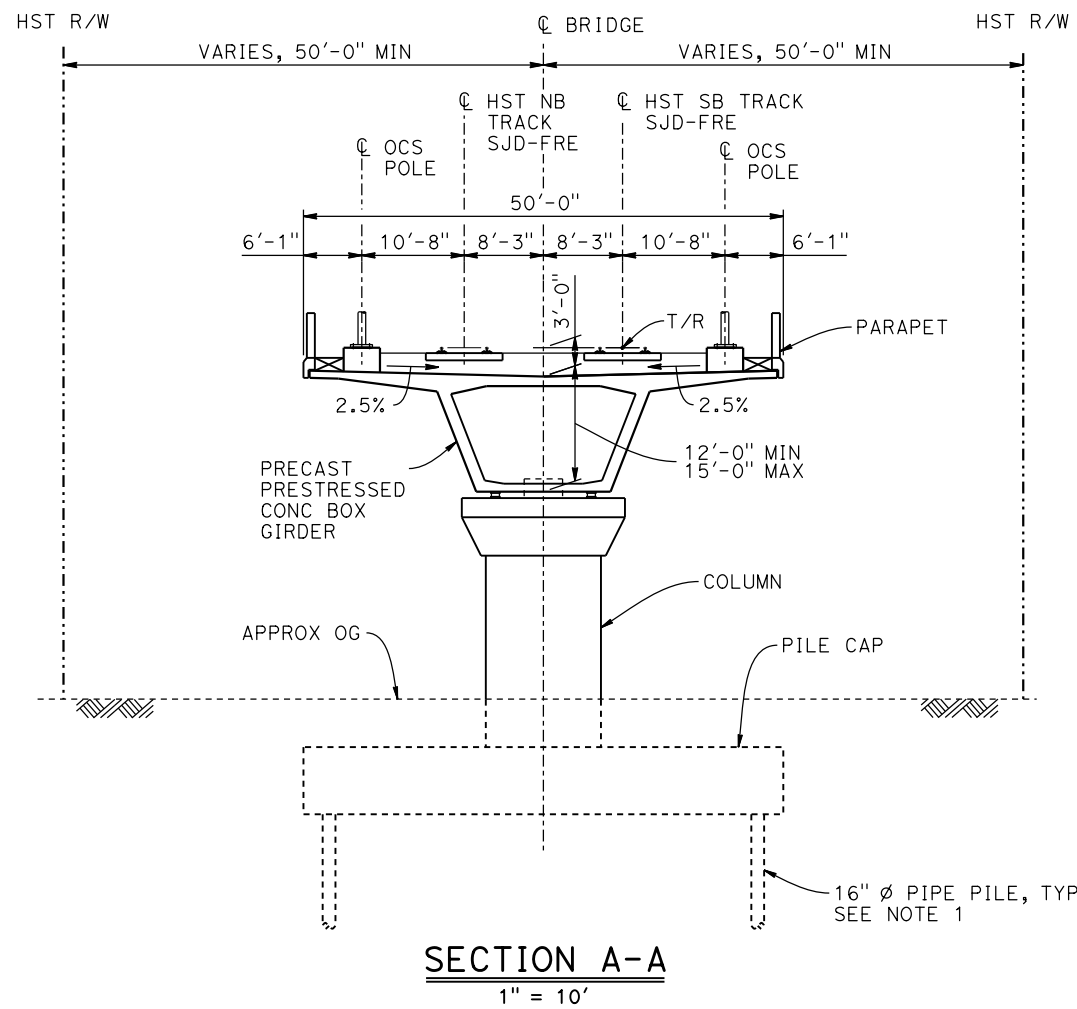
AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 1 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1080-B

SCALE
AS SHOWN

SHEET NO.



BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2	12'-0" ϕ
3	10'-0" ϕ
4	12'-0" ϕ
5	13'-0" ϕ
6 - 7	15'-0" ϕ
8 - 12	12'-0" ϕ

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



07-FEB-2015 09:46 MF-ST-K3080-B.dgn

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTION (SJD-FRE)

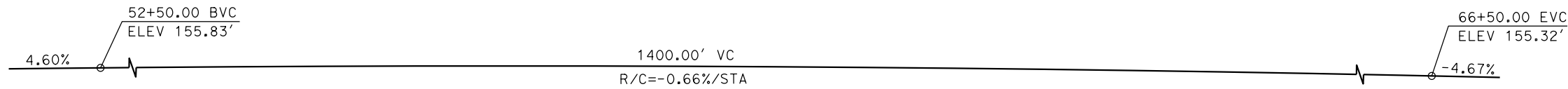
AERIAL #1 - EASTSIDE BYPASS IRRIGATION DITCH - 2 OF 2

CONTRACT NO.
HSR08-05

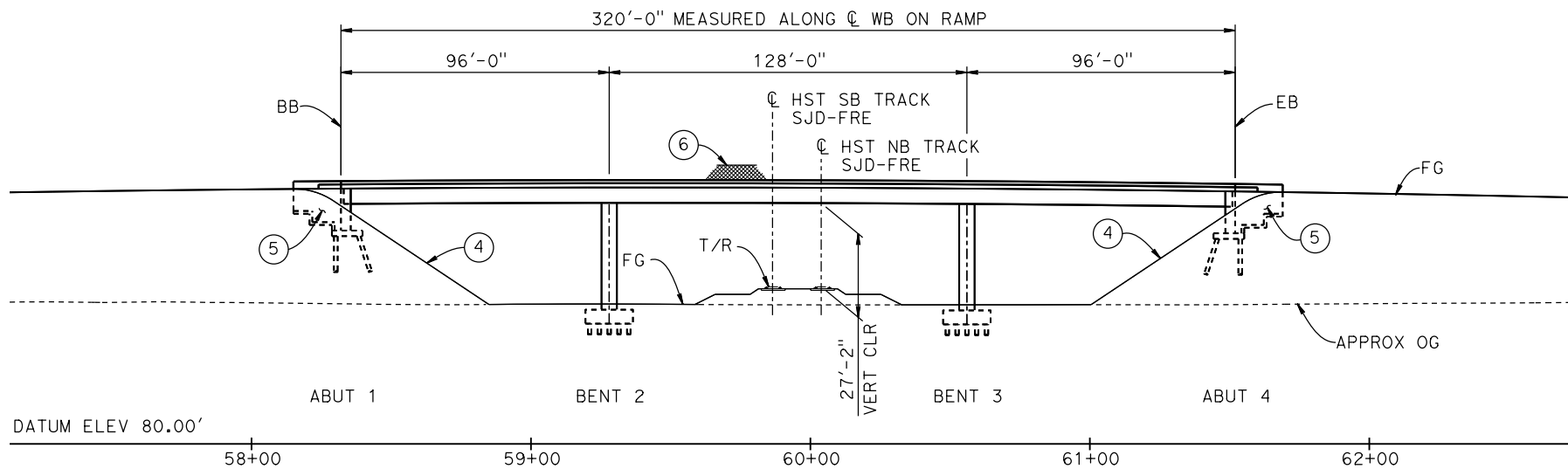
DRAWING NO.
ST-K3080-B

SCALE
AS SHOWN

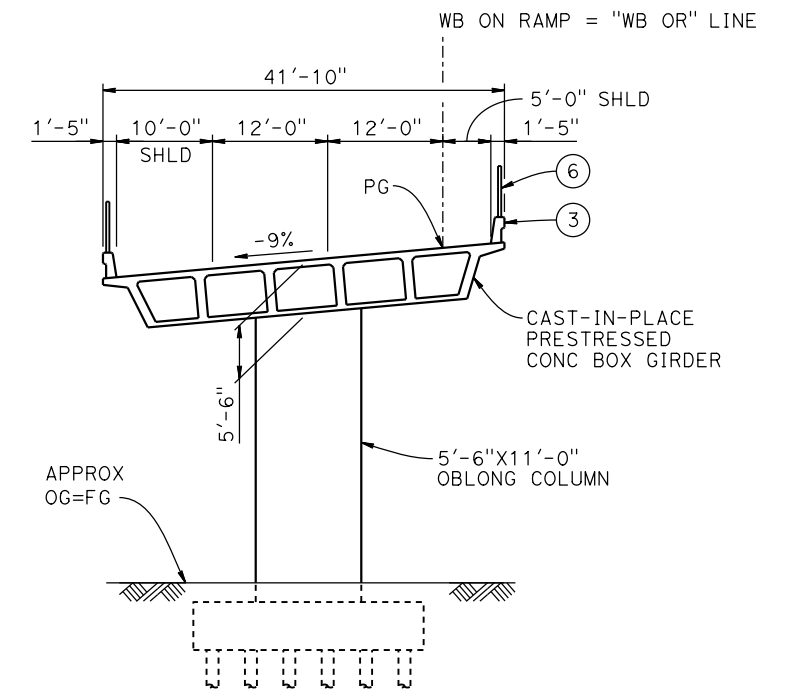
SHEET NO.



PROFILE GRADE
NO SCALE



DEVELOPED ELEVATION



TYPICAL SECTION
1" = 10'

LEGEND:

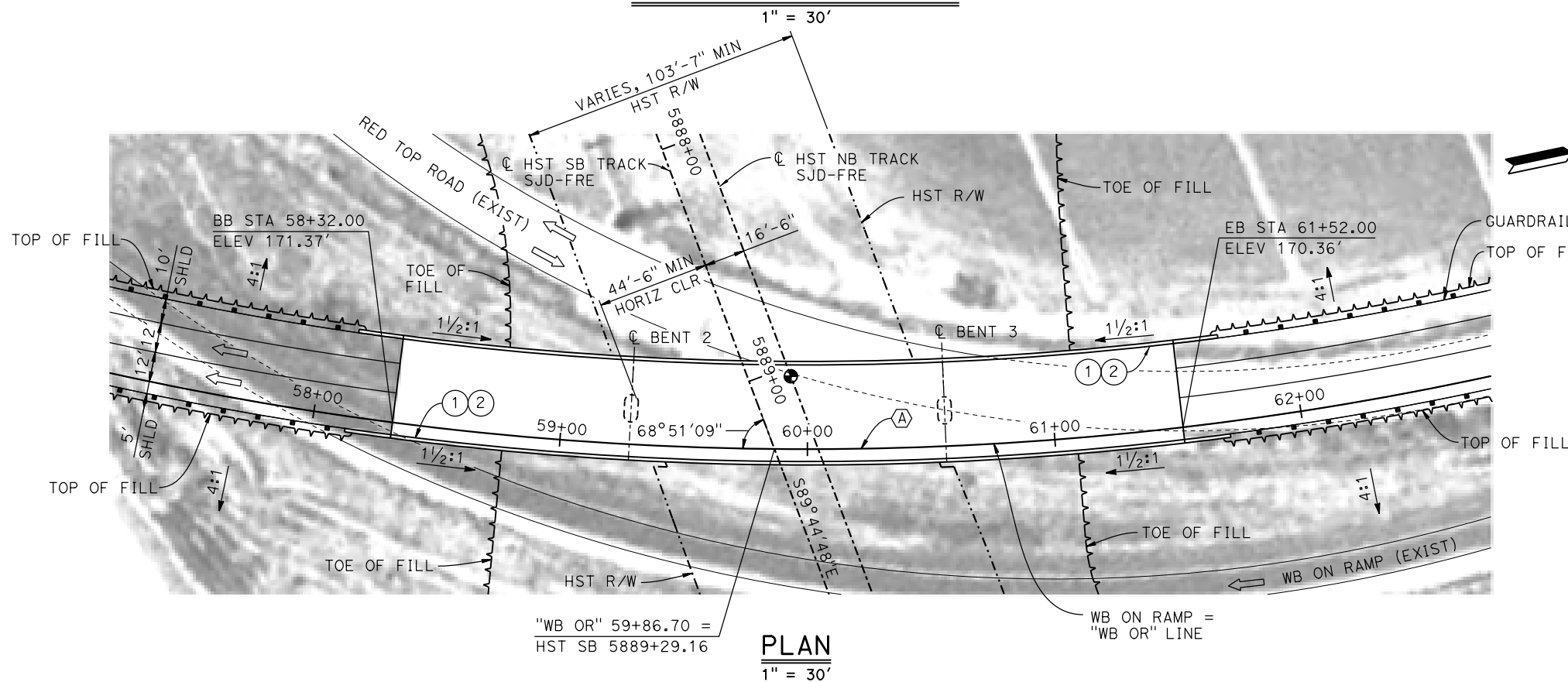
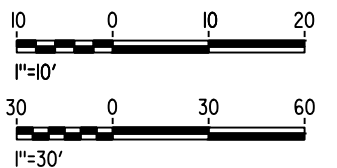
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "WB ON RAMP OVERHEAD"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ CONCRETE BARRIER TYPE 742 MOD
- ④ SLOPE PAVING (1 1/2 H:1 V)
- ⑤ WINGWALL
- ⑥ AR FENCE WITH SOLID PLATE

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-S1100-B.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-B.

CURVE NO. 102-03 (A)

R = 1,305.00'
 $\Delta = 62^\circ 21' 49''$
 L = 1,420.43'
 T = 789.77'



PLAN
1" = 30'

16-MAR-2016 16:18 MF-ST-K1100-B.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

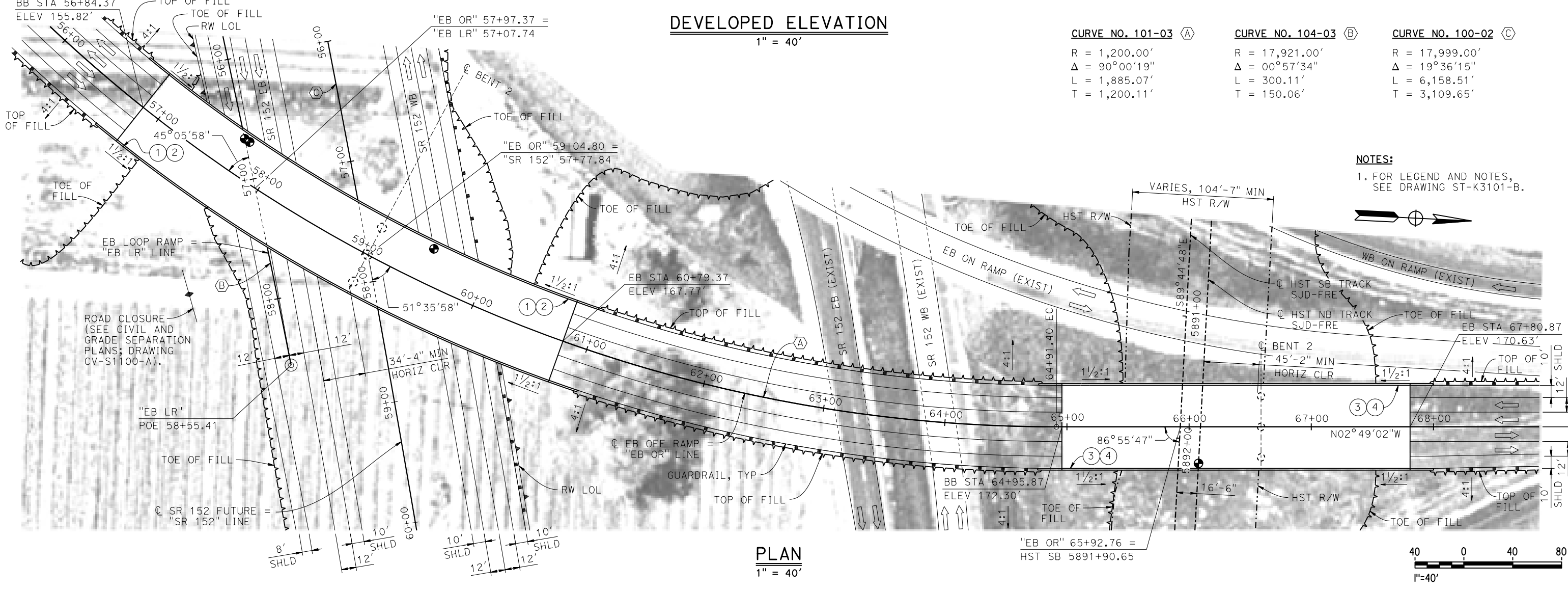
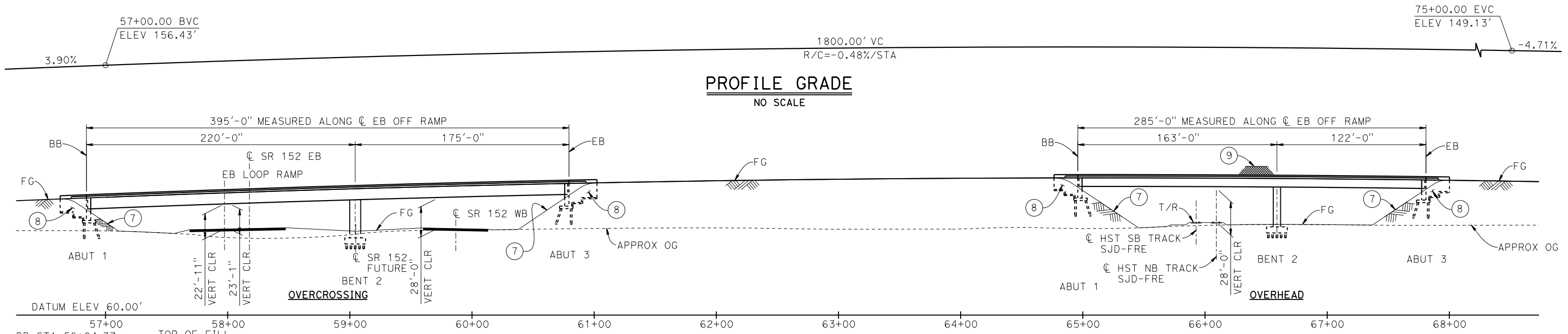
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



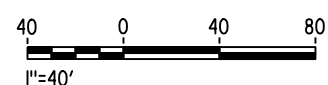
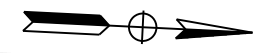
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 SR 59 / SR 152 INTERCHANGE - 1 OF 4

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



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-B.



21-MAY-2015 15:17:09 MF-ST-K1101-B.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

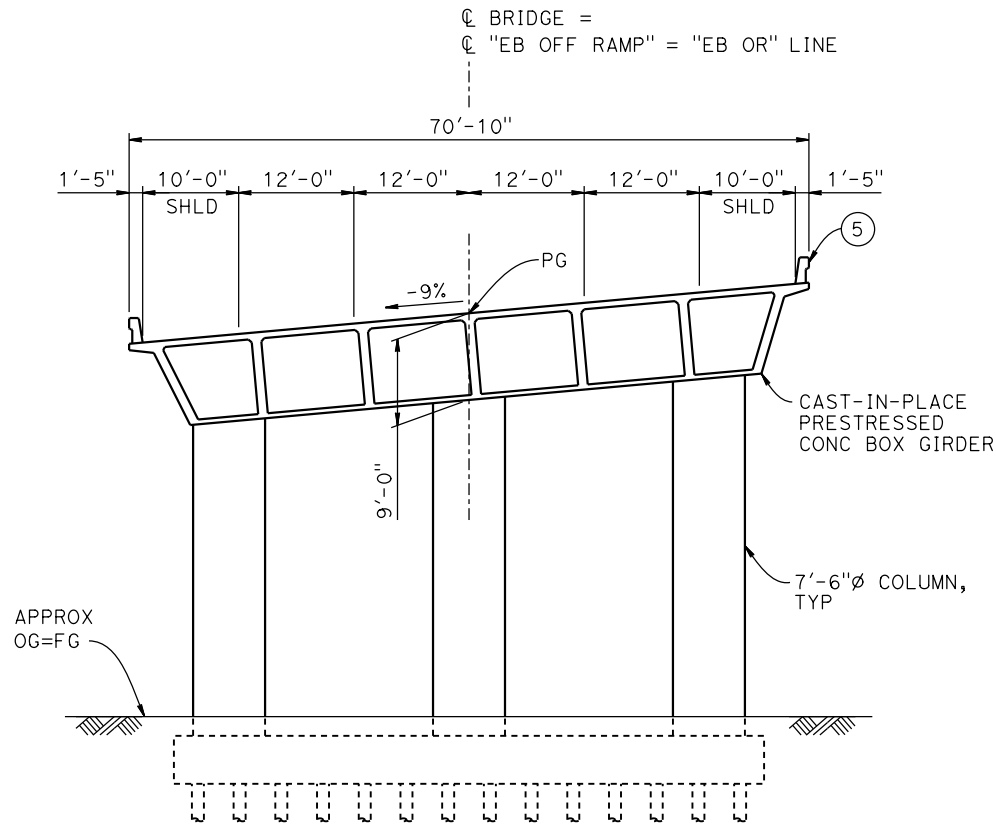
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

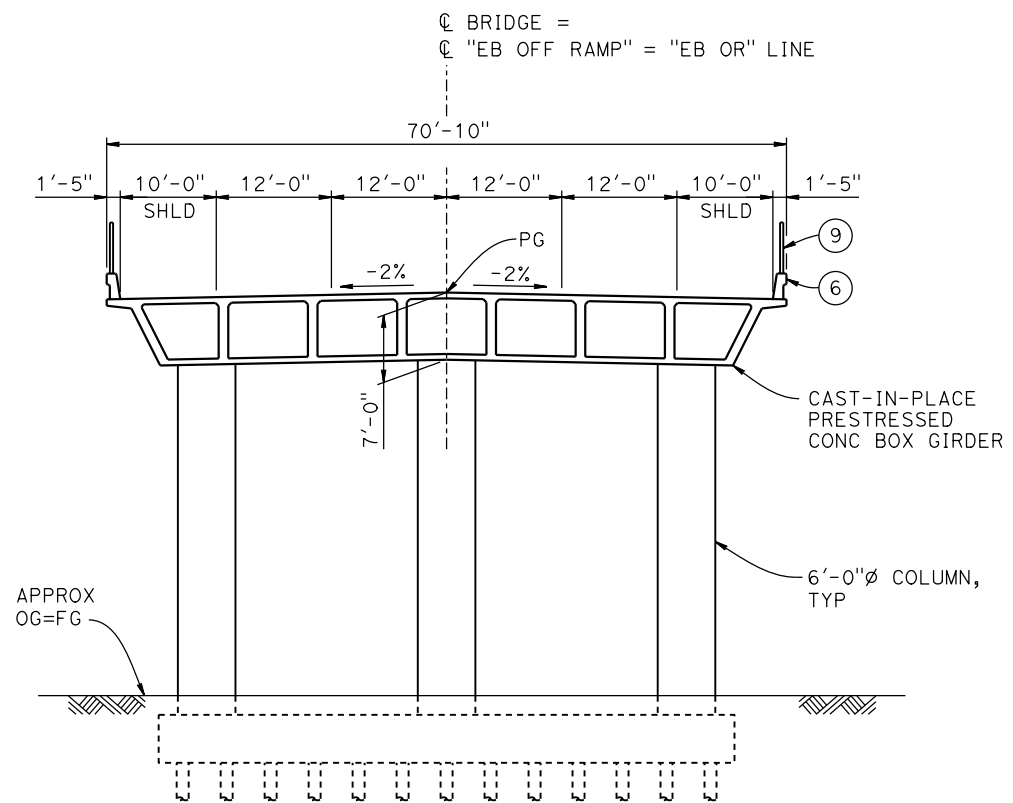


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 SR 59 / SR 152 INTERCHANGE - 2 OF 4

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



TYPICAL SECTION AT OVERCROSSING
1" = 10'



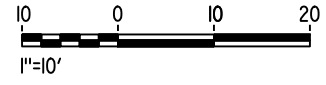
TYPICAL SECTION AT OVERHEAD
1" = 10'

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:

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-S1100-B.
3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-B.
4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1100-B.



16-MAR-2016 16:18 MF-ST-K3101-B.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

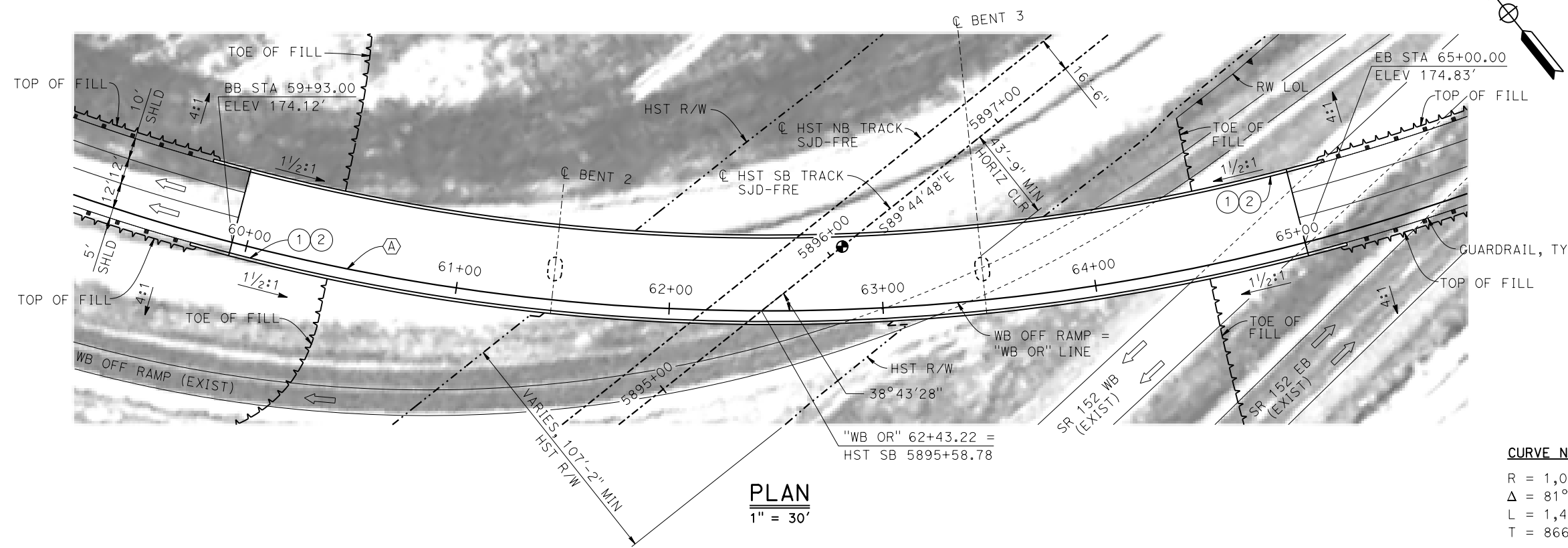
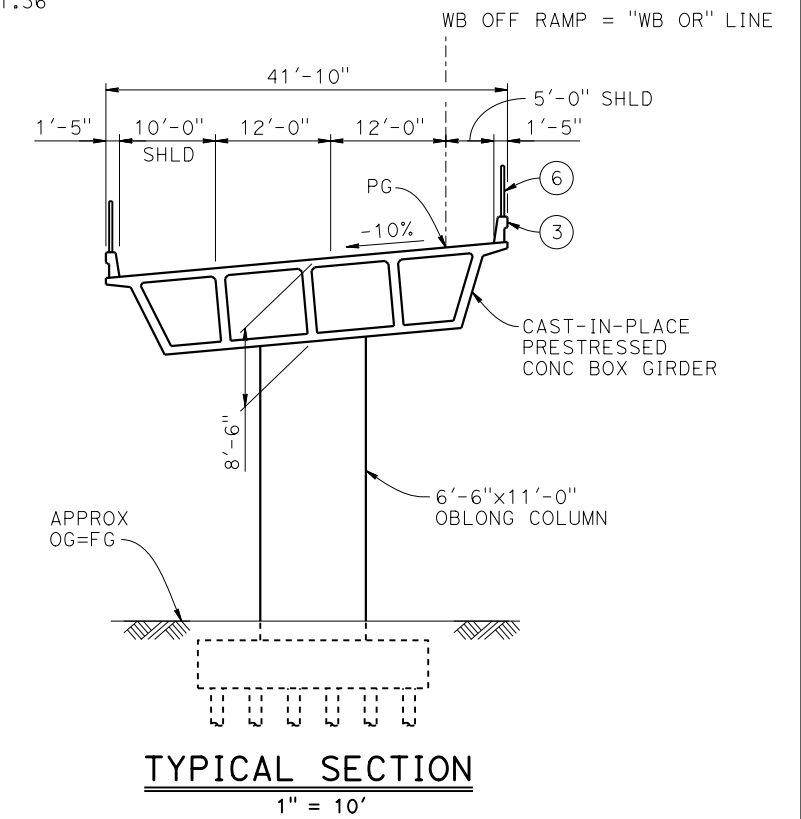
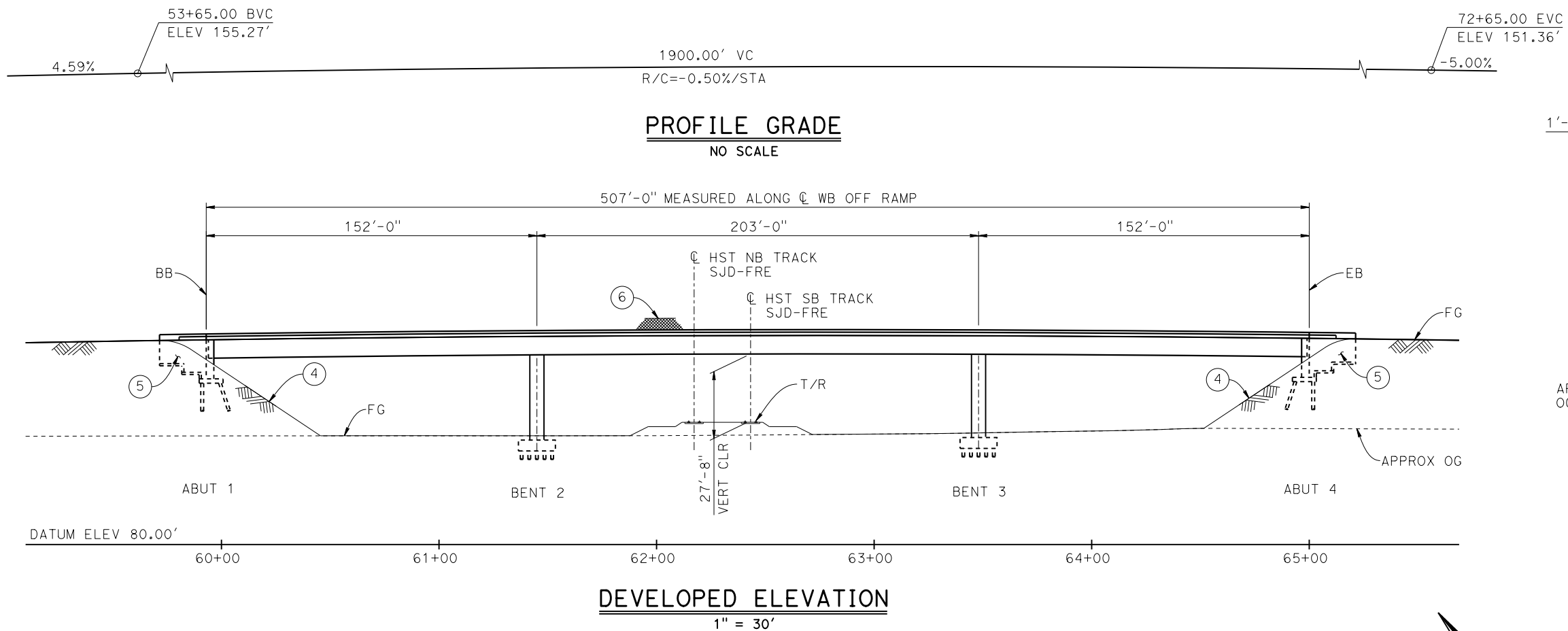
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
SR 59 / SR 152 INTERCHANGE - 3 OF 4

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



- 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:**
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; DRAWINGS CV-S1100-B.
 3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1100-B.
 3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1100-B.



MF-ST-K1102-B.dgn
 21-MAY-2015 3:03
 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

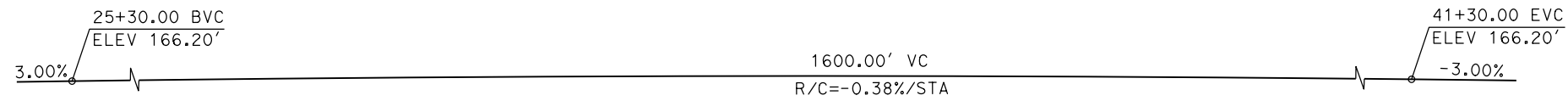
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

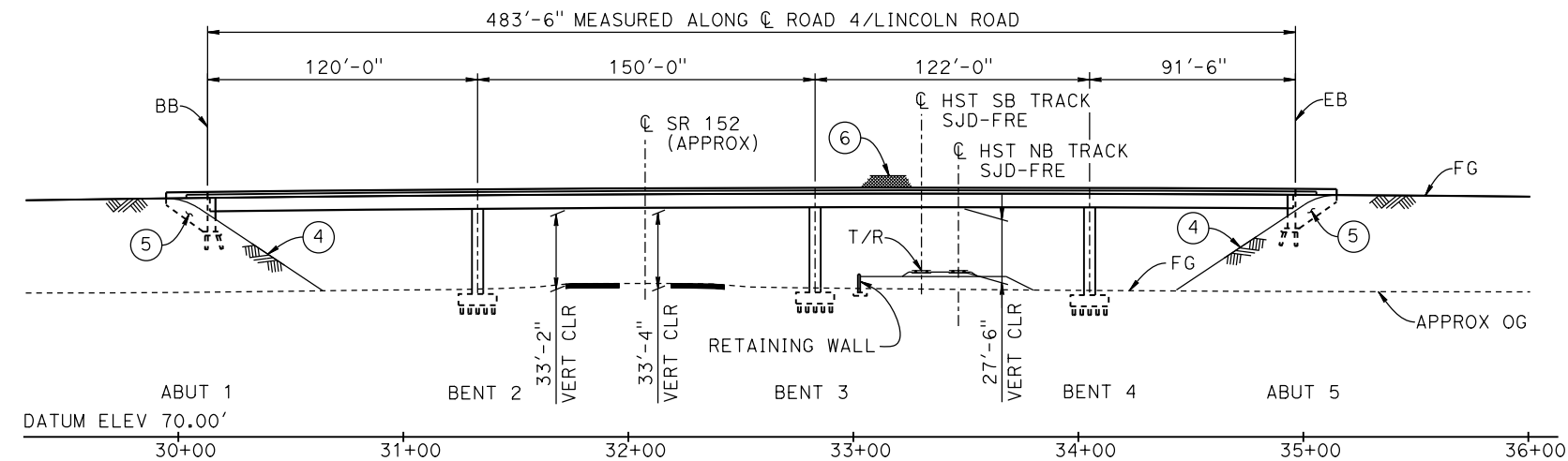


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 SR 59 / SR 152 INTERCHANGE - 4 OF 4

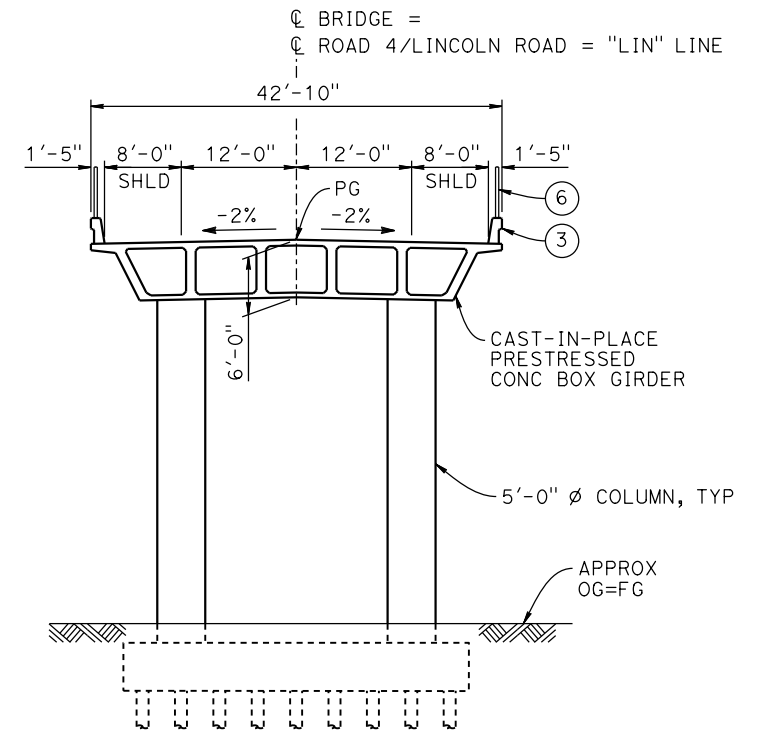
CONTRACT NO.
HSR08-05
 DRAWING NO.
ST-K1102-B
 SCALE
AS SHOWN
 SHEET NO.



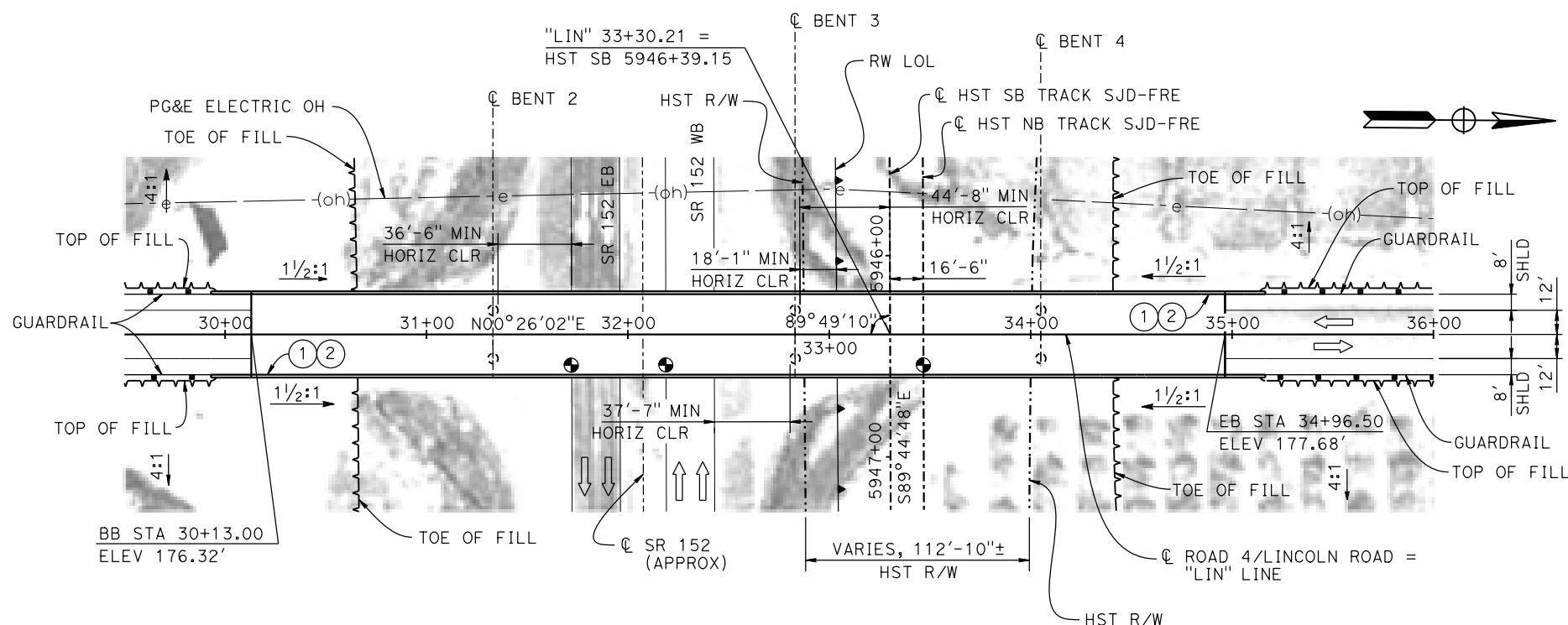
PROFILE GRADE
NO SCALE



ELEVATION
1" = 40'



TYPICAL SECTION
1" = 10'



PLAN
1" = 40'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC		FALSEWORK OPENING REQD (HORIZ X VERT)	
ST OR ROAD NAME AND LOCATION			
SR 152	31+83	40'X16.5'	E BND
SR 152	32+30	40'X16.5'	W BND

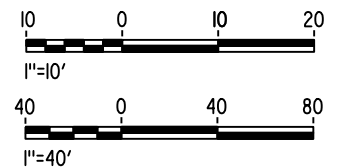
3. TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "LINCOLN 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:

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-S1110-B.
3. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1110-B.
4. FOR GUARDRAIL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1110-B.



MF-ST-K1110-B.dgn 07-FEB-2015 01:36 P0036110

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

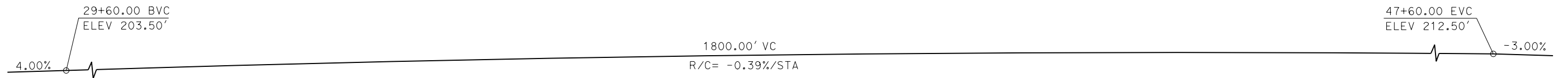
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

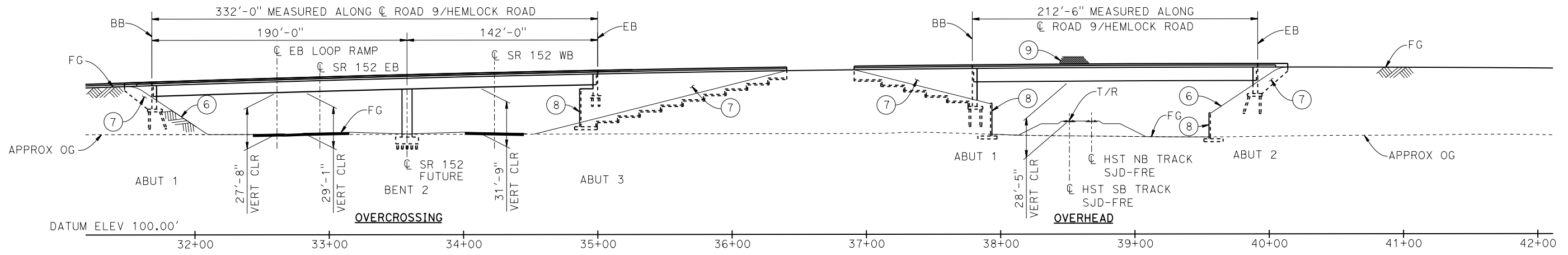


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
LINCOLN ROAD (ROAD 4) OVERHEAD

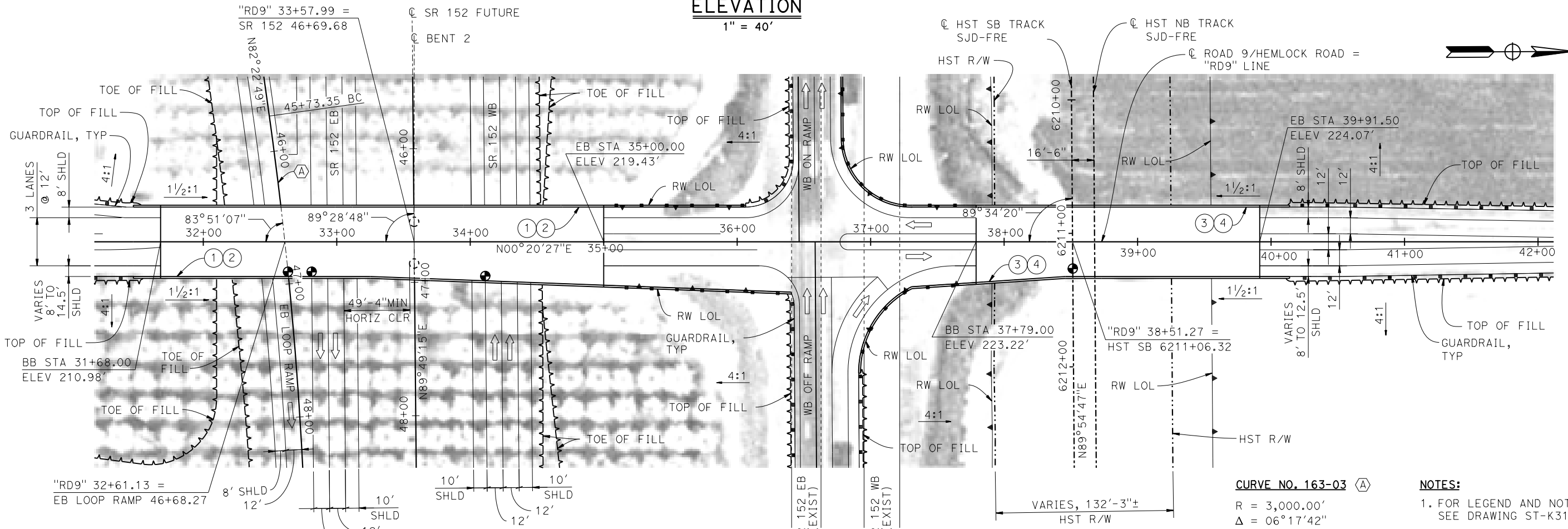
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1110-B
SCALE
AS SHOWN
SHEET NO.



PROFILE GRADE
NO SCALE



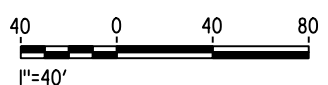
ELEVATION
1" = 40'



PLAN
1" = 40'

CURVE NO. 163-03 (A)
 R = 3,000.00'
 Δ = 06°17'42"
 L = 329.61'
 T = 164.97'

NOTES:
 1. FOR LEGEND AND NOTES, SEE DRAWING ST-K3160-B.



MF-ST-K1160-B.dgn 21-MAY-2015 09:28 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

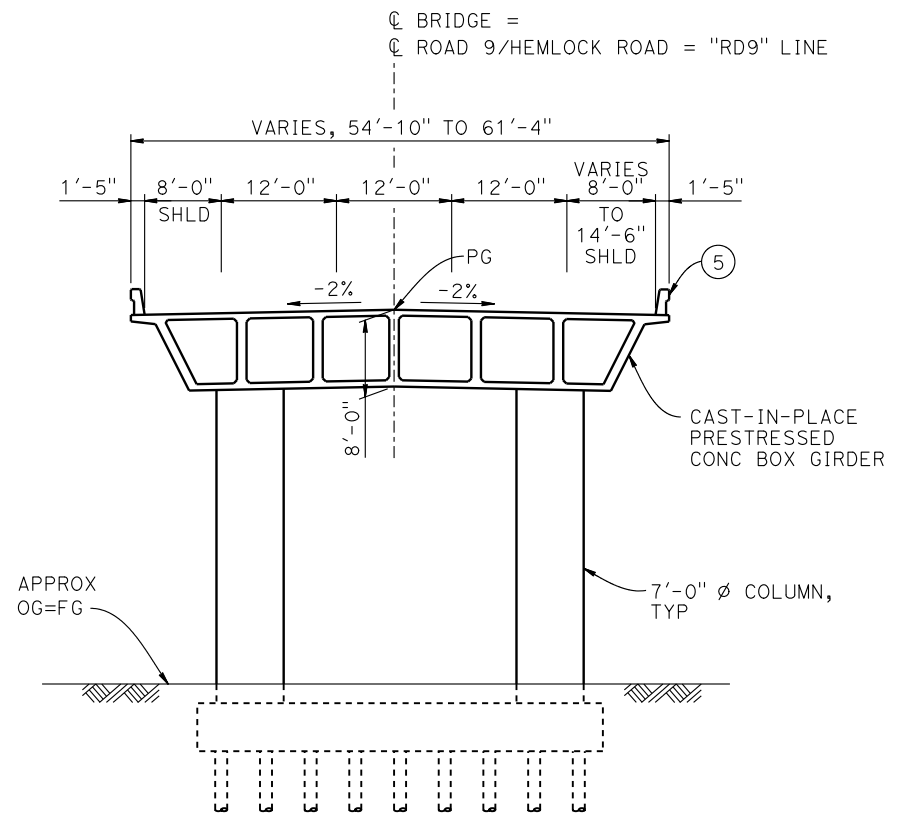
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

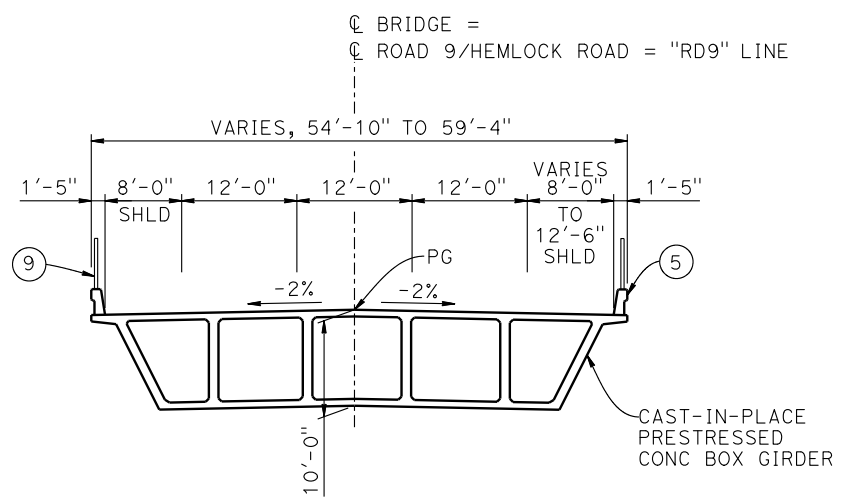


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 HEMLOCK ROAD (ROAD 9) INTERCHANGE - 1 OF 2

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



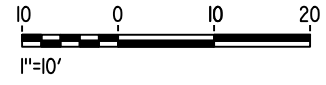
TYPICAL SECTION AT OVERCROSSING
1" = 10'



TYPICAL SECTION AT OVERHEAD
1" = 10'

- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ⇒ INDICATES DIRECTION OF TRAFFIC
 - ① PAINT "HEMLOCK ROAD OVERCROSSING"
 - ② PAINT "BRIDGE NO. XX-XXXX"
 - ③ PAINT "HEMLOCK ROAD 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

- 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-S1160-B.
 3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-B.
 4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1160-B.



19-MAY-2015 9:53 MF-ST-K3160-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

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

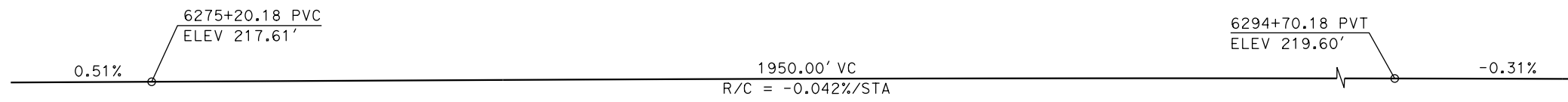
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
HEMLOCK ROAD (ROAD 9) INTERCHANGE - 2 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K3160-B

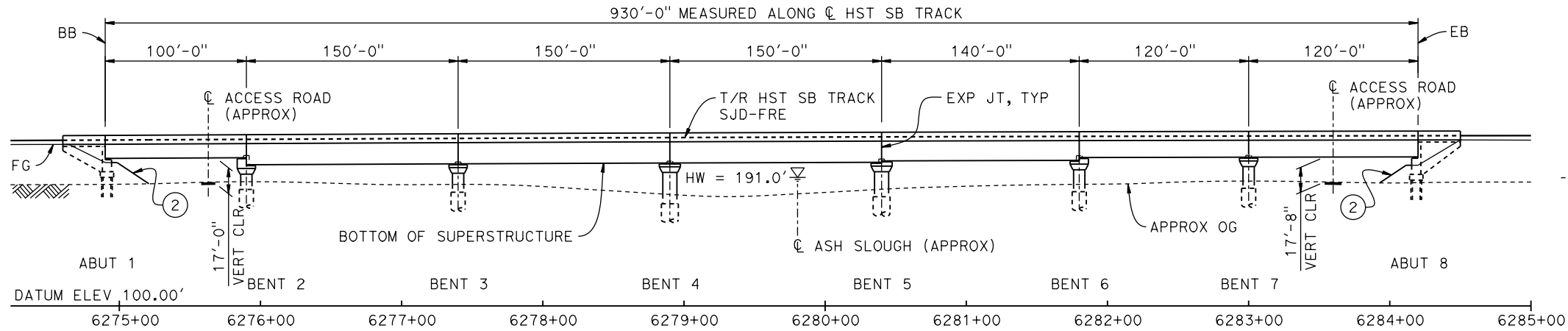
SCALE
AS SHOWN

SHEET NO.

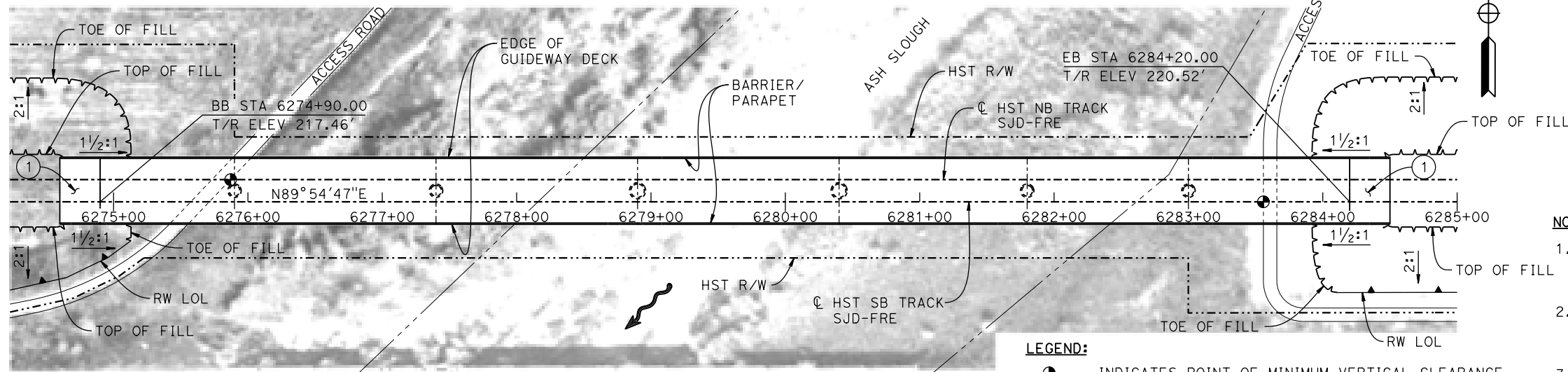


TOP OF RAIL PROFILE (CL HST SB TRACK)
NO SCALE

BENT COLUMN SCHEDULE		
BENTS	COLUMN TYPE	CIDH TYPE
2-3	8'-0" Ø	10'-0" Ø
4-5	10'-0" Ø	12'-0" Ø
6-7	8'-0" Ø	10'-0" Ø

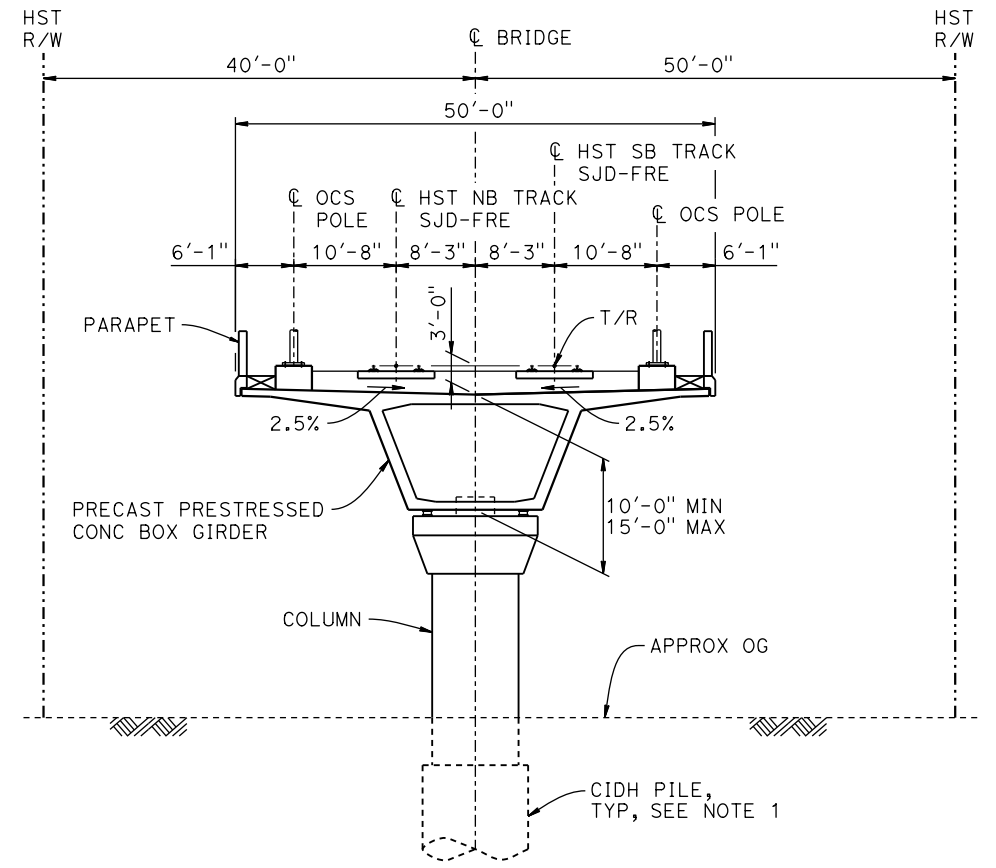


ELEVATION
1" = 50'



PLAN
1" = 50'

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



TYPICAL SECTION
1" = 10'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

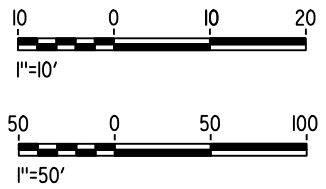
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)
ACCESS ROAD 6275+64	20'x16.5' -
ACCESS ROAD 6283+61	20'x16.5' -

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 RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1170-B.
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-B.



18-MAR-2015 10:51:28 MF-ST-K1170-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

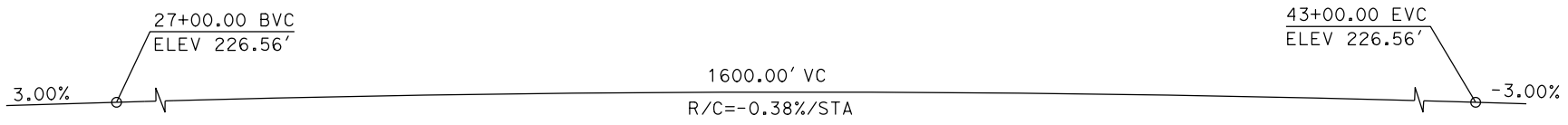
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

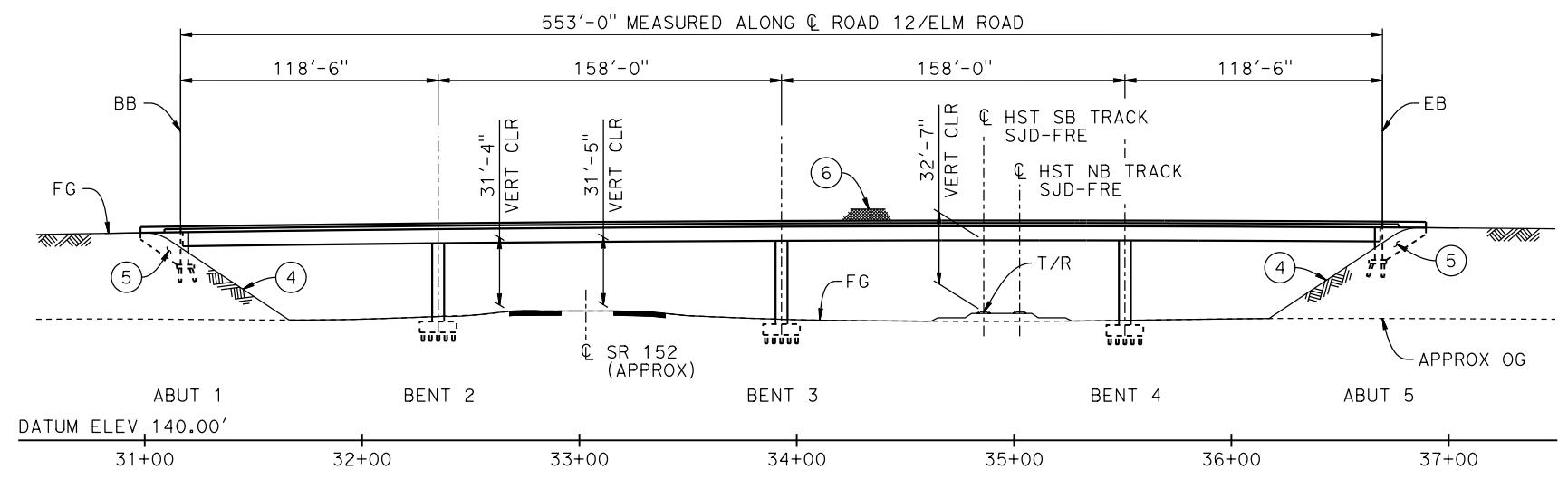


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ASH SLOUGH BRIDGE

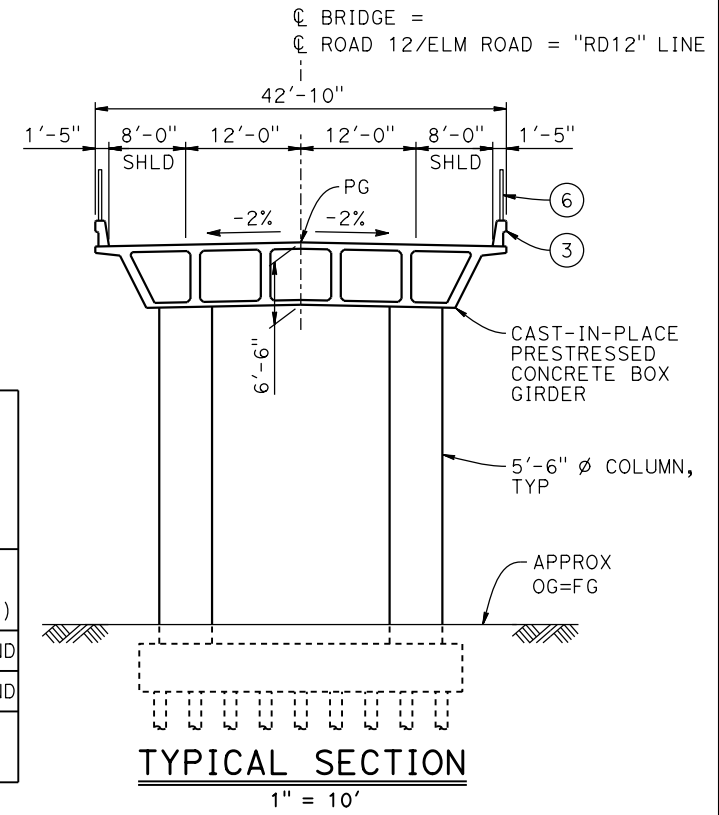
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1170-B
SCALE
AS SHOWN
SHEET NO.



PROFILE GRADE
NO SCALE



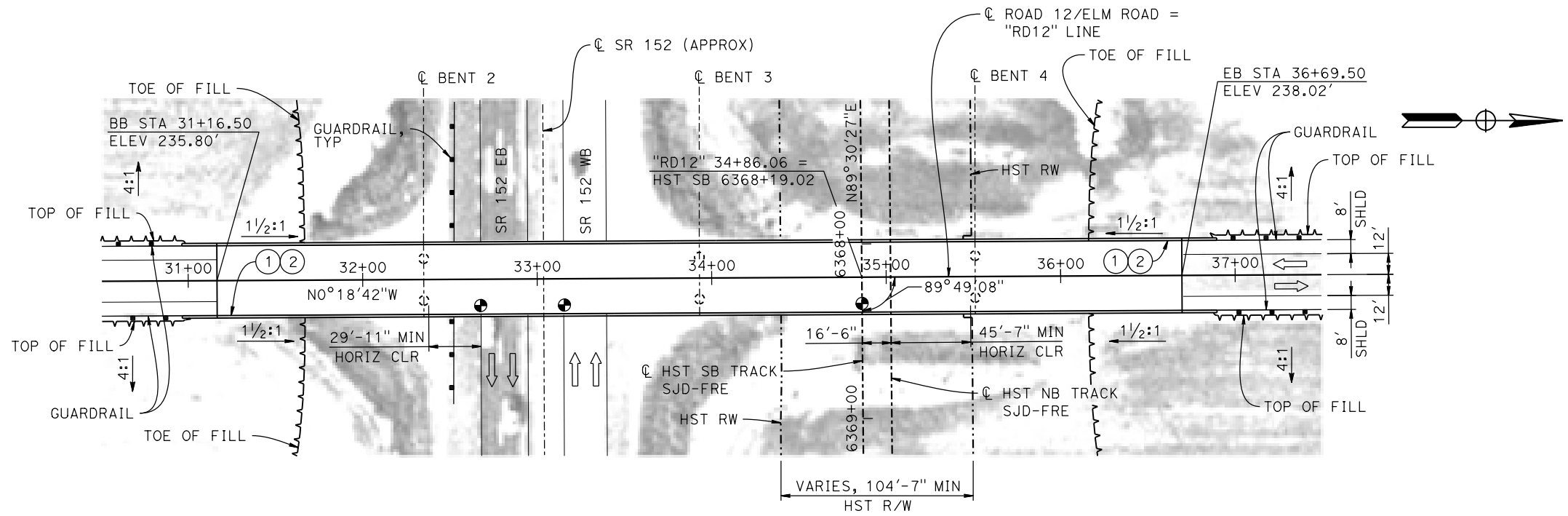
ELEVATION
1" = 40'



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 REQ (HORIZ X VERT)
SR 152 32+78	40'x16.5' E BND
SR 152 33+26	40'x16.5' W BND
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.	



PLAN
1" = 40'

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ⇨ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "ELM ROAD 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

NOTE:

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-S1190-B.
3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1190-B.



MF-ST-K1190-B.dgn 07-FEB-2015 01:39 P0036110

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

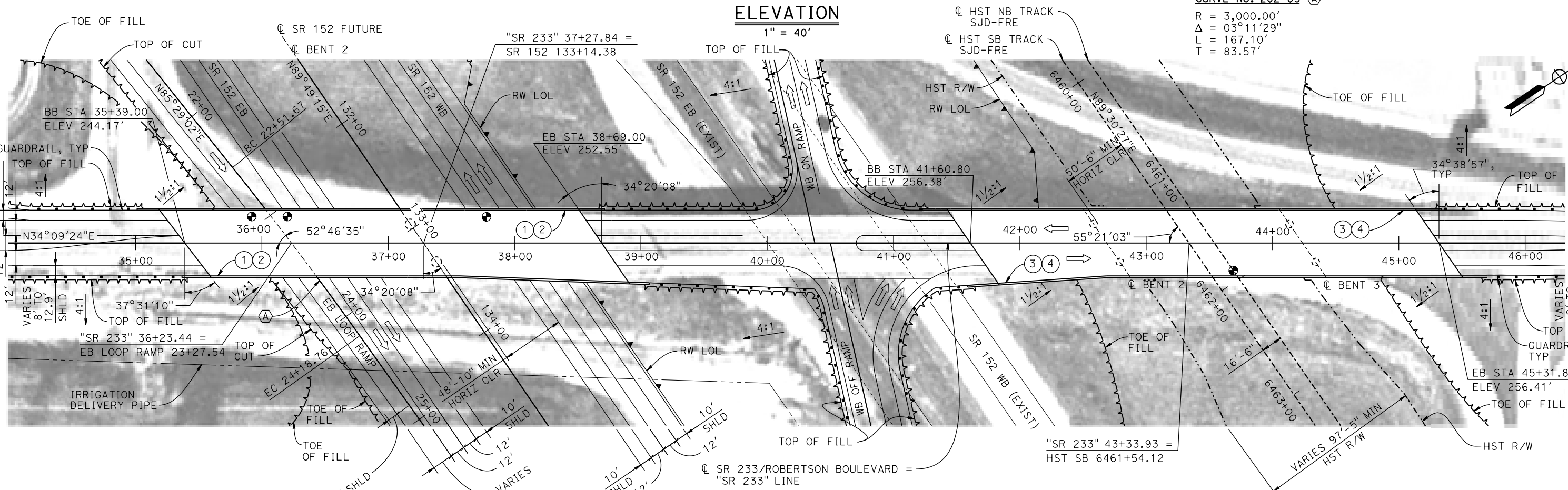
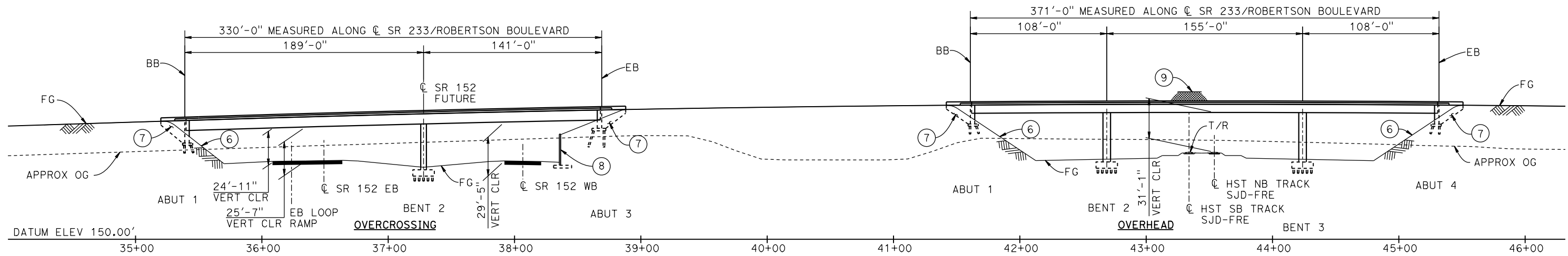
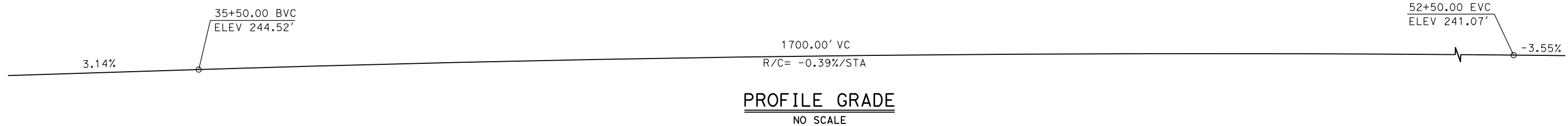
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ELM ROAD (ROAD 12) OVERHEAD

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1190-B

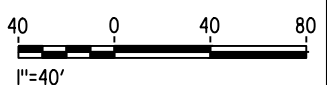
SCALE
AS SHOWN

SHEET NO.



CURVE NO. 202-03 (A)
R = 3,000.00'
Δ = 03°11'29"
L = 167.10'
T = 83.57'

NOTES:
1. FOR LEGEND AND NOTES, SEE DRAWING ST-K3210-B.



19-MAY-2015 6:03 MF-ST-K1210-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

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

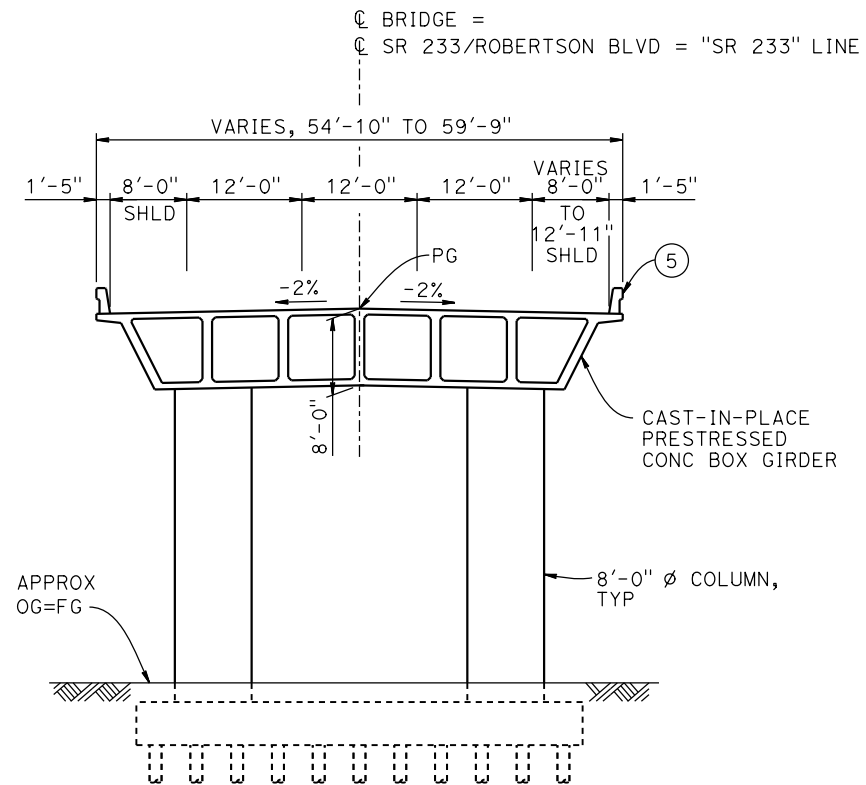
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 1 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1210-B

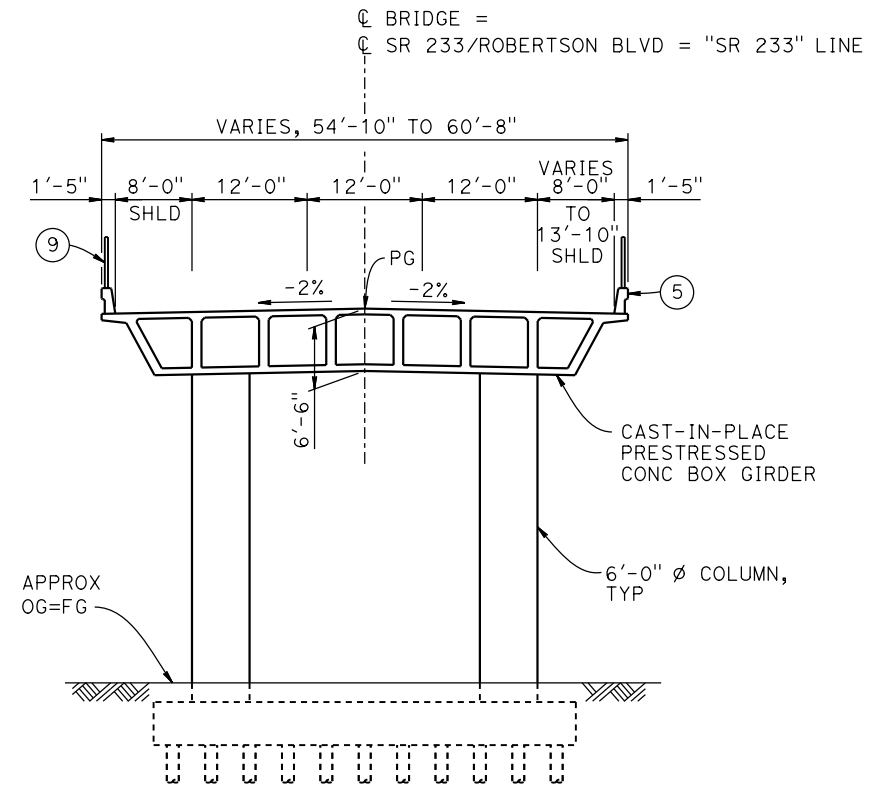
SCALE
AS SHOWN

SHEET NO.



TYPICAL SECTION AT OVERCROSSING

1" = 10'



TYPICAL SECTION AT OVERHEAD

1" = 10'

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

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; DRAWINGS CV-S1210-B.
3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1210-B.
4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1210-B.



19-MAY-2015 15:16:09 MF-ST-K3210-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

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

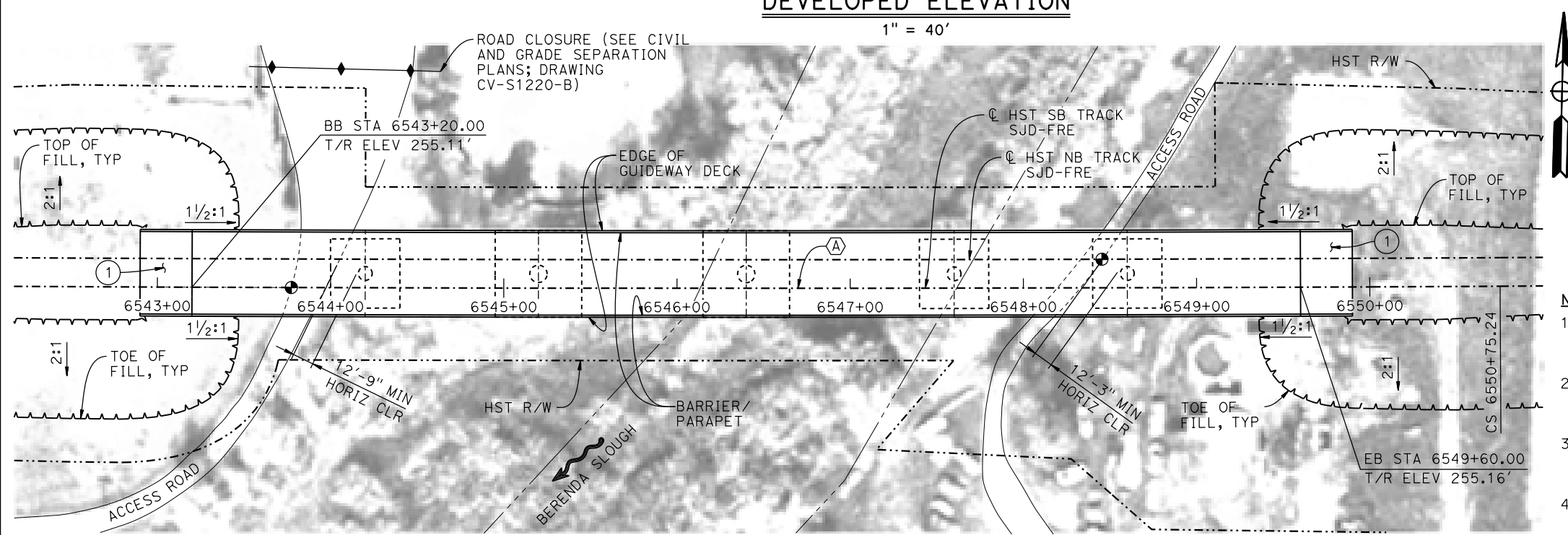
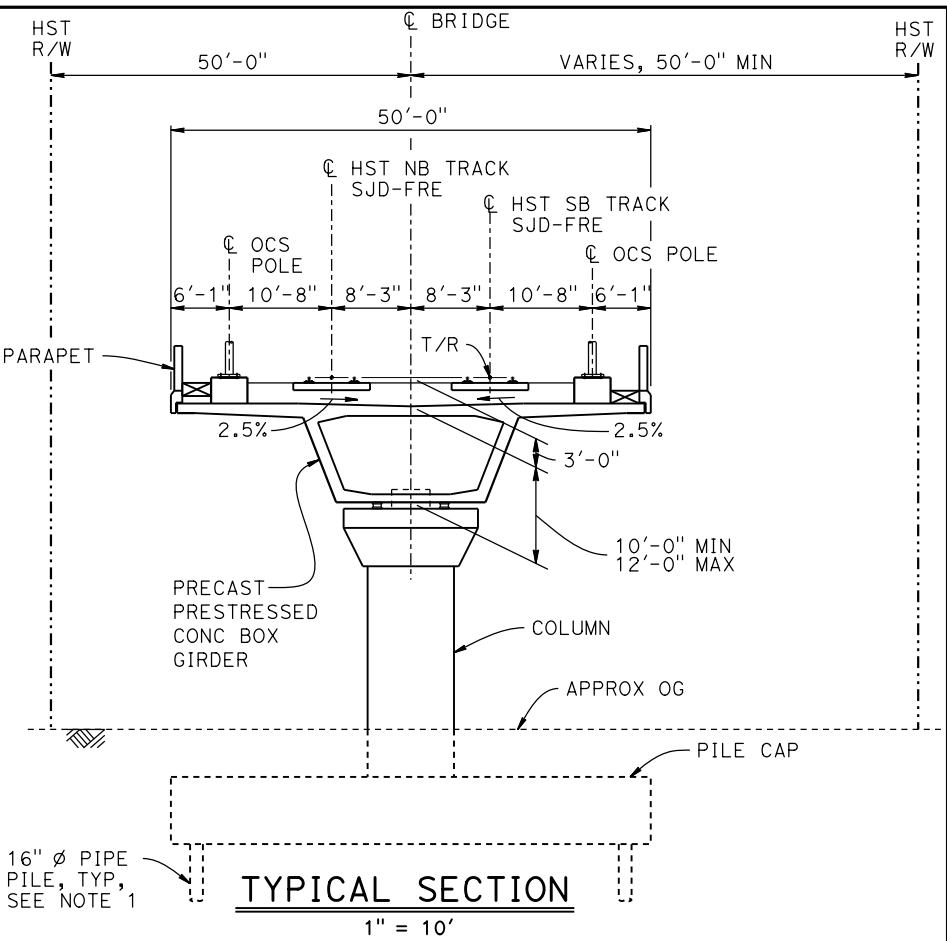
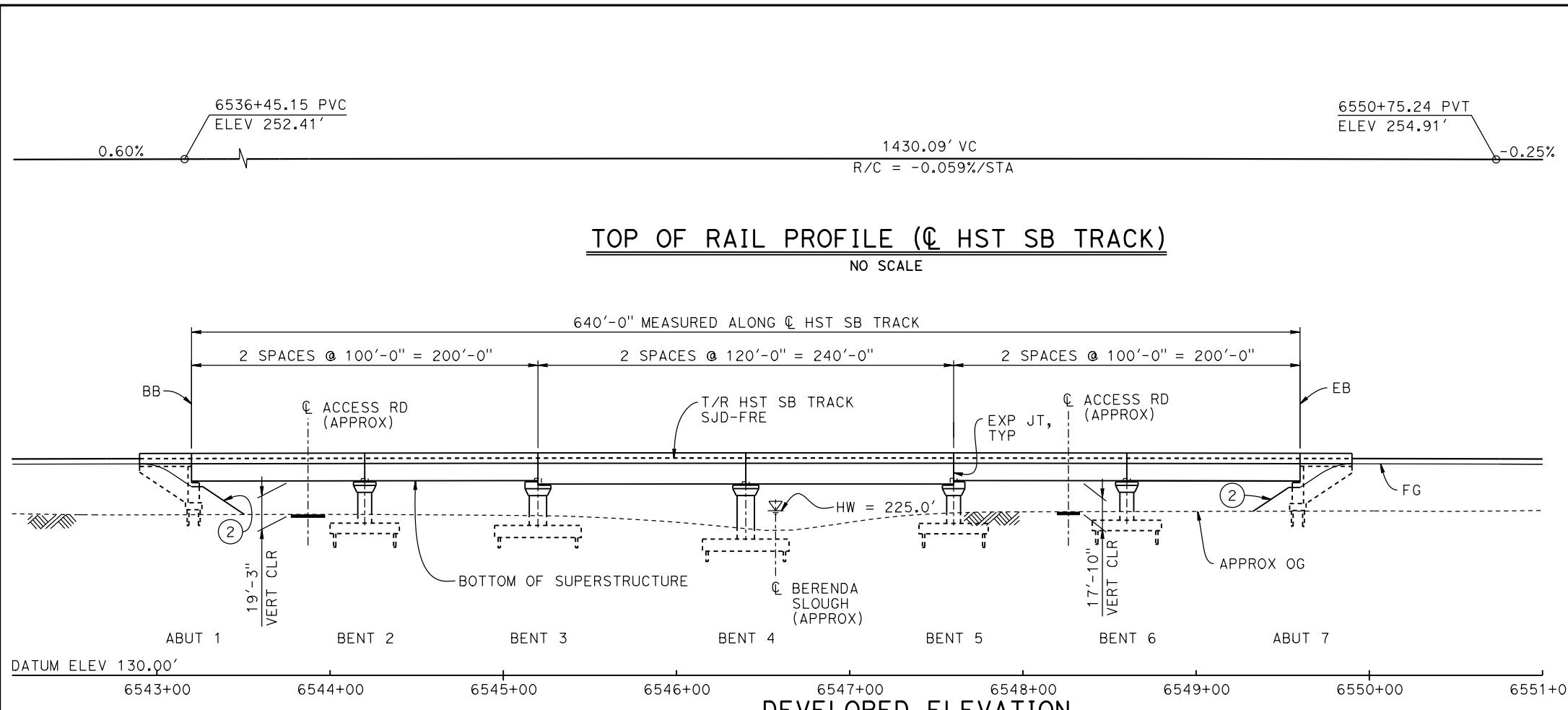
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
ROBERTSON BOULEVARD (SR 233) INTERCHANGE - 2 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K3210-B

SCALE
AS SHOWN

SHEET NO.



BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2	8'-0" Ø
3 - 4	10'-0" Ø
5 - 6	8'-0" Ø

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 REOD (HORIZ x VERT)		
ACCESS ROAD 6543+83	20'x16.5'	-	
ACCESS ROAD 6548+27	20'x16.5'	-	
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

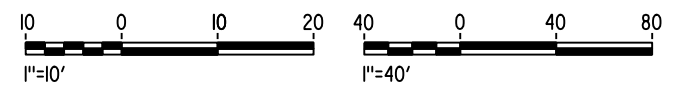
CURVE SJD-FRE 5 SB(A)
 R = 79,310.00'
 LS = 1,200.00'

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-B.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-BO051-B.

LEGEND:

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



PLAN
1" = 40'

07-FEB-2015 01:40 MF-ST-K1220-B.dgn

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

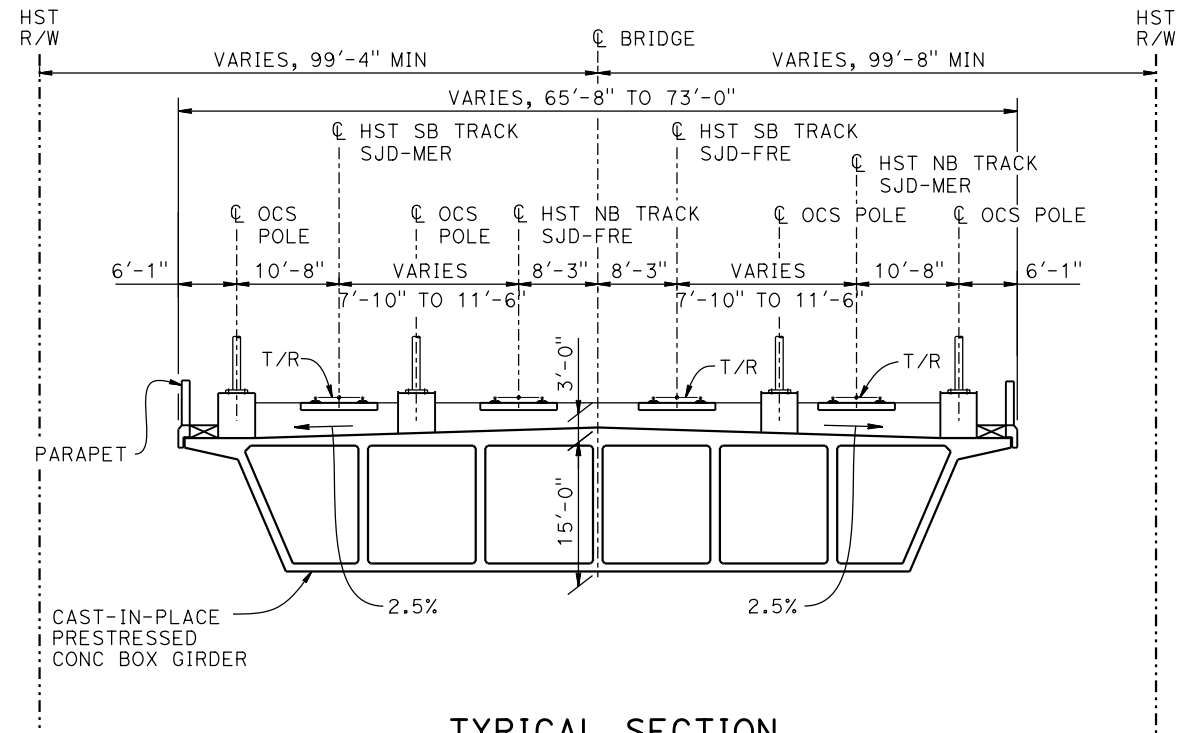
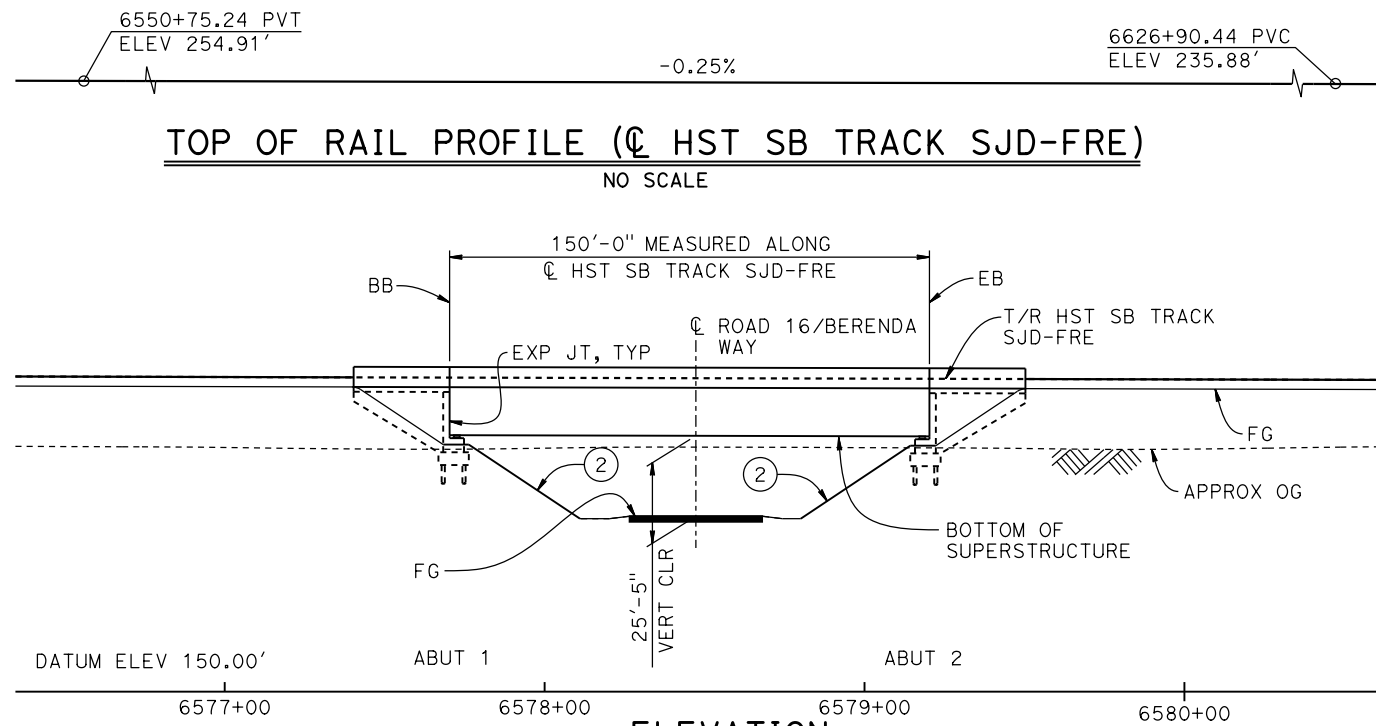
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

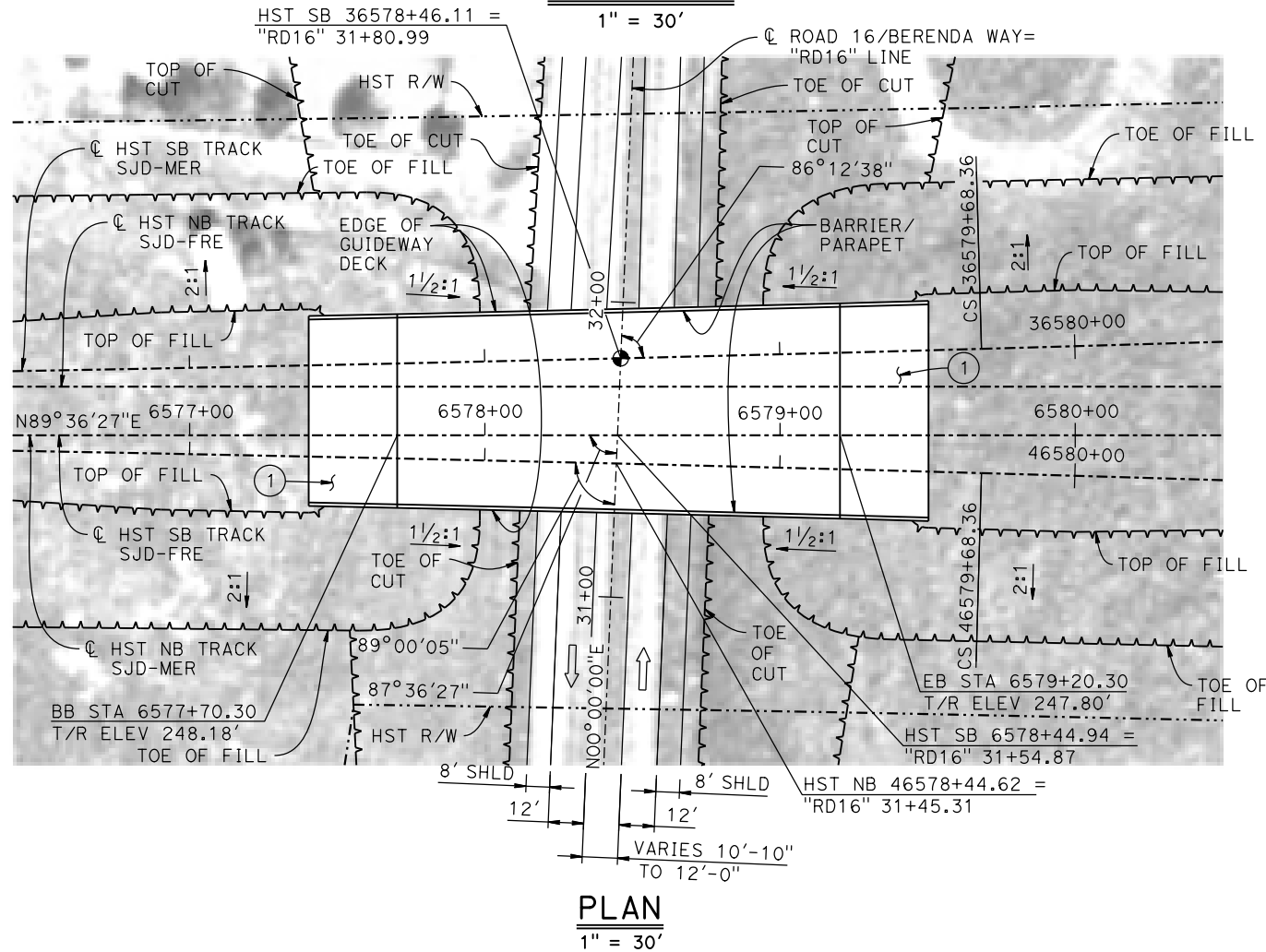


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 BERENDA SLOUGH BRIDGE

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



TYPICAL SECTION
1" = 10'



PLAN
1" = 30'

TEMPORARY TRAFFIC OPENINGS

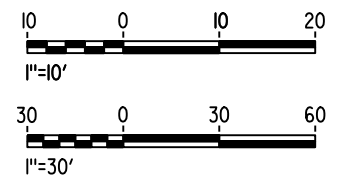
VEHICULAR TRAFFIC		FALSEWORK OPENING REQD (HORIZ X VERT)	
1. —	TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.		
2. X	TRAFFIC WILL PASS UNDER THE STRUCTURE ON:		
	ST OR ROAD NAME AND LOCATION		
	ROAD 16/BERENDA WAY	6578+45	52'x16.5' 2-WAY
3. —	TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.		

NOTES:

- 16" ϕ PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-B.

LEGEND:

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



16-MAR-2016 16:19 MF-ST-K1230-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

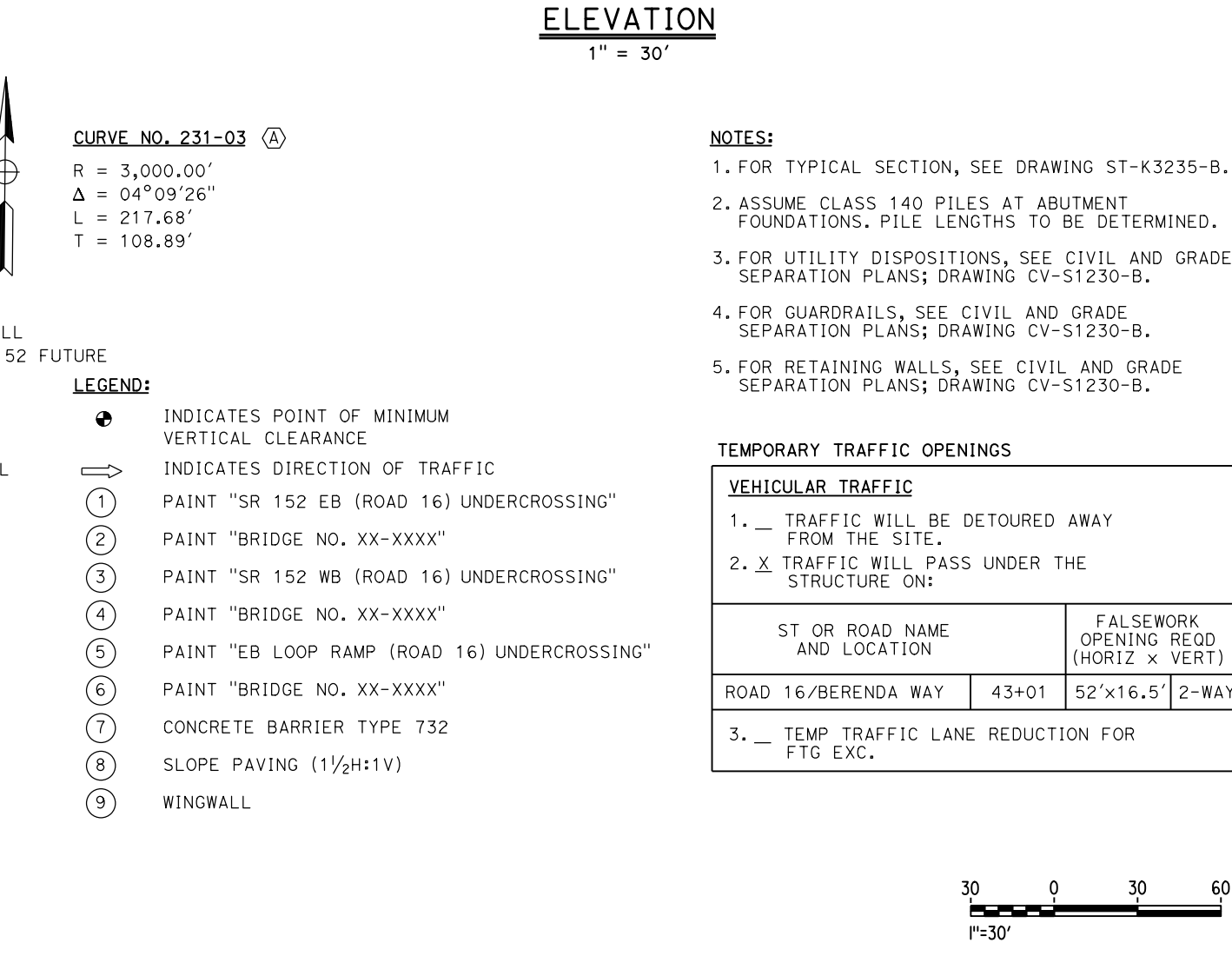
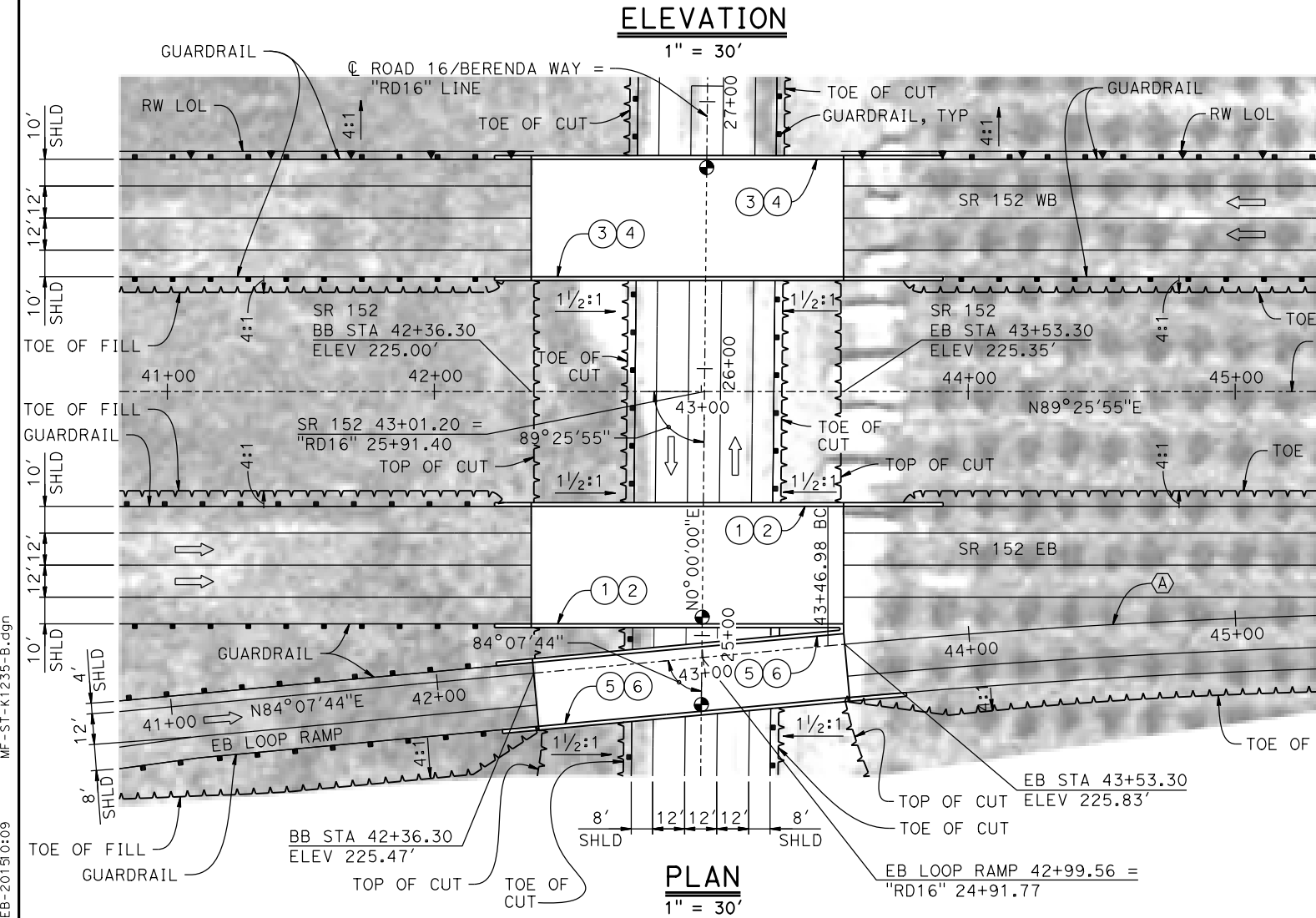
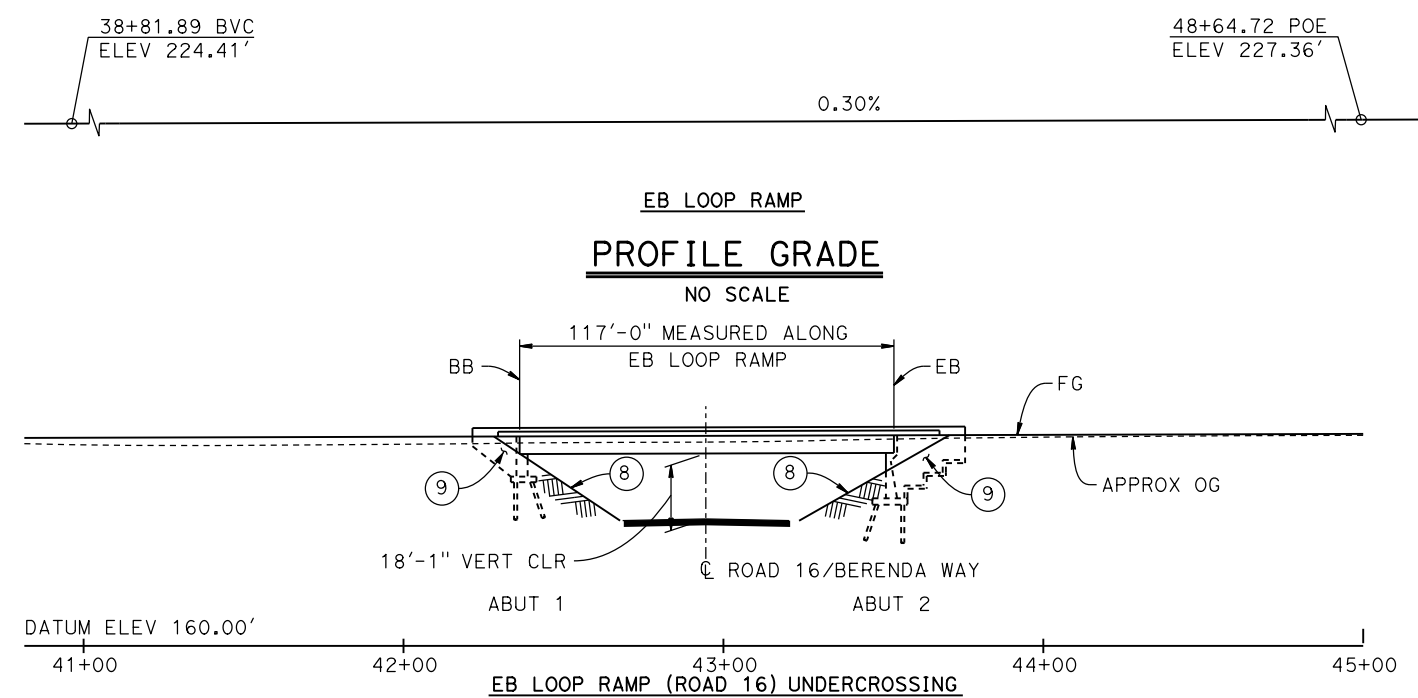
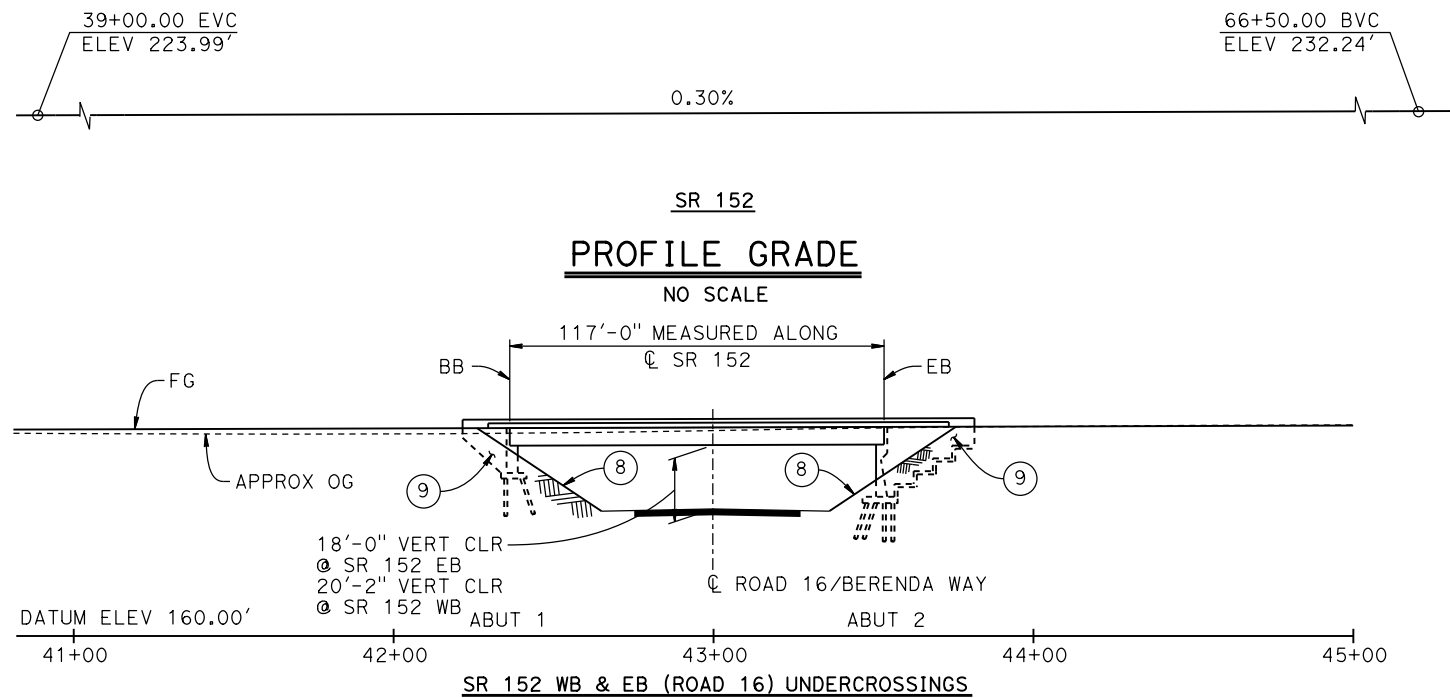
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
BERENDA WAY (ROAD 16) UNDERPASS

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



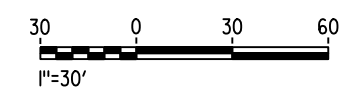
CURVE NO. 231-03 (A)
 R = 3,000.00'
 Δ = 04°09'26"
 L = 217.68'
 T = 108.89'

- NOTES:**
- FOR TYPICAL SECTION, SEE DRAWING ST-K3235-B.
 - ASSUME CLASS 140 PILES AT ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-B.
 - FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-B.
 - FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1230-B.

- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ➔ INDICATES DIRECTION OF TRAFFIC
 - ① PAINT "SR 152 EB (ROAD 16) UNDERCROSSING"
 - ② PAINT "BRIDGE NO. XX-XXXX"
 - ③ PAINT "SR 152 WB (ROAD 16) UNDERCROSSING"
 - ④ PAINT "BRIDGE NO. XX-XXXX"
 - ⑤ PAINT "EB LOOP RAMP (ROAD 16) UNDERCROSSING"
 - ⑥ PAINT "BRIDGE NO. XX-XXXX"
 - ⑦ CONCRETE BARRIER TYPE 732
 - ⑧ SLOPE PAVING (1/2H:1V)
 - ⑨ WINGWALL

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC		FALSEWORK OPENING REQD (HORIZ x VERT)	
1. _	TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.		
2. X	TRAFFIC WILL PASS UNDER THE STRUCTURE ON:		
	ST OR ROAD NAME AND LOCATION		
	ROAD 16/BERENDA WAY	43+01	52'x16.5' 2-WAY
3. _	TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.		



07-FEB-2015 10:09 MF-ST-K1235-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

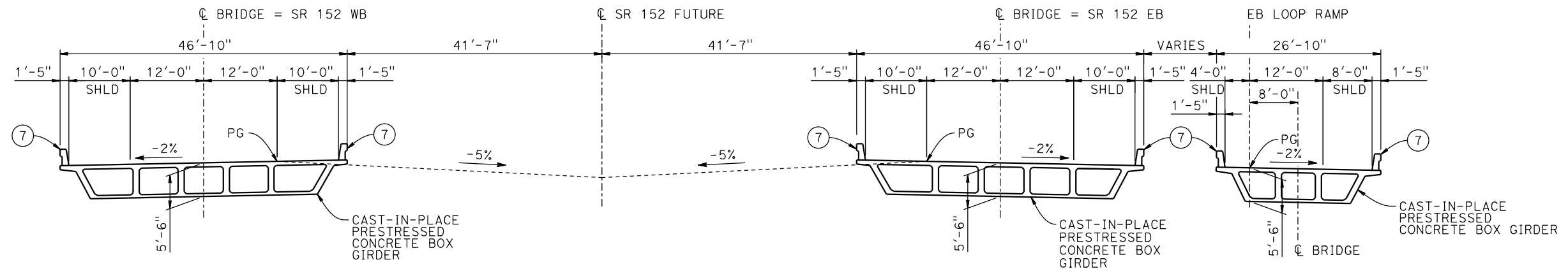
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

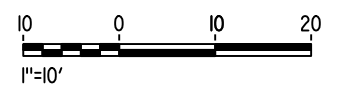


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 BERENDA WAY (ROAD 16) INTERCHANGE - 1 OF 2

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



TYPICAL SECTION
1" = 10'



MF-ST-K3235-B.dgn
 07-FEB-2015 10:10
 P0036110

REV	DATE	BY	CHK	APP	DESCRIPTION

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

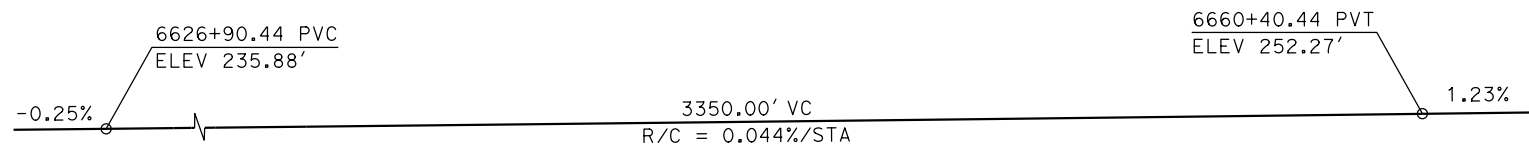
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

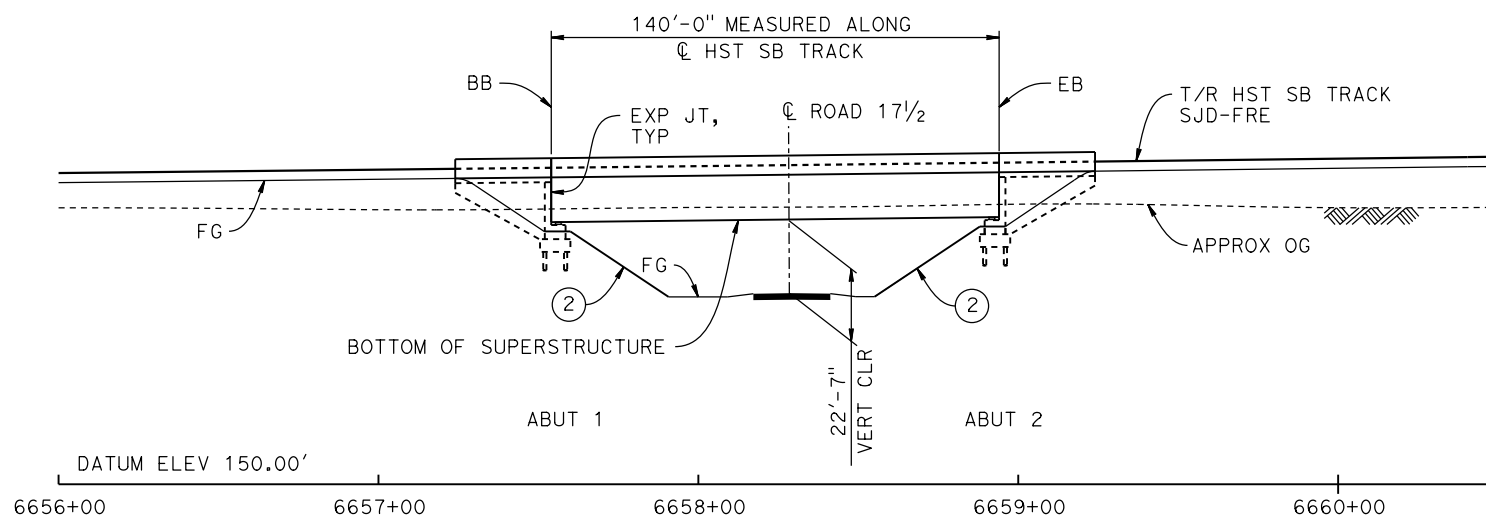


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 TYPICAL SECTION (SJD-FRE)
 BERENDA WAY (ROAD 16) INTERCHANGE - 2 OF 2

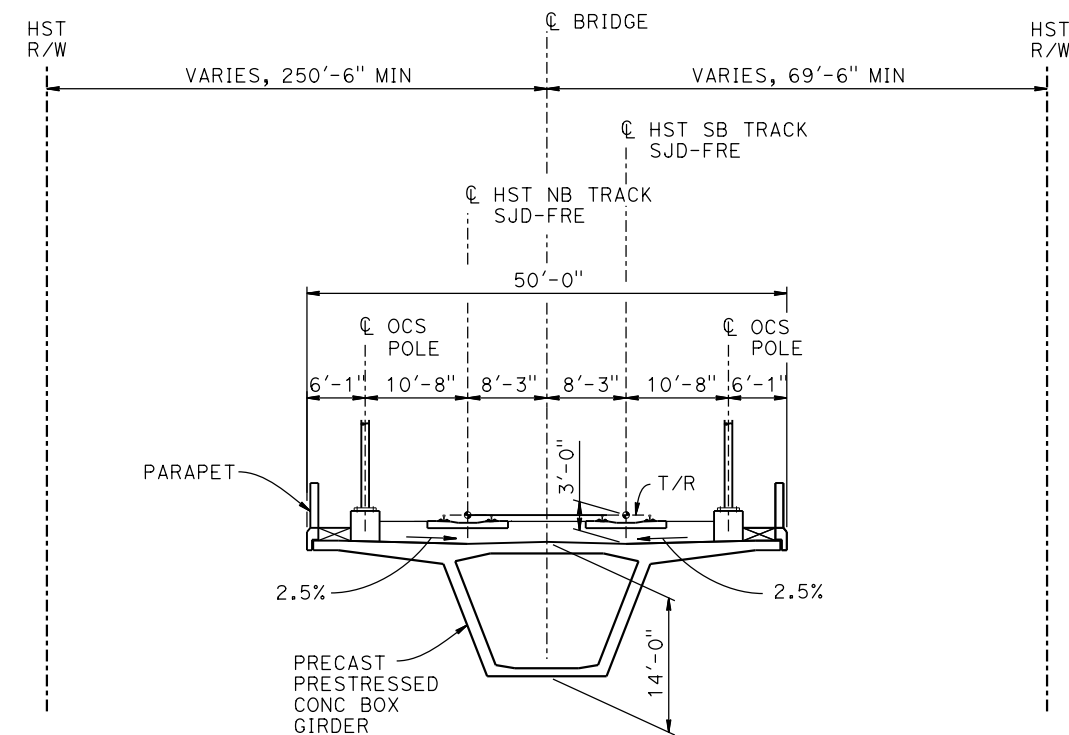
CONTRACT NO.
 HSR08-05
 DRAWING NO.
 ST-K3235-B
 SCALE
 AS SHOWN
 SHEET NO.



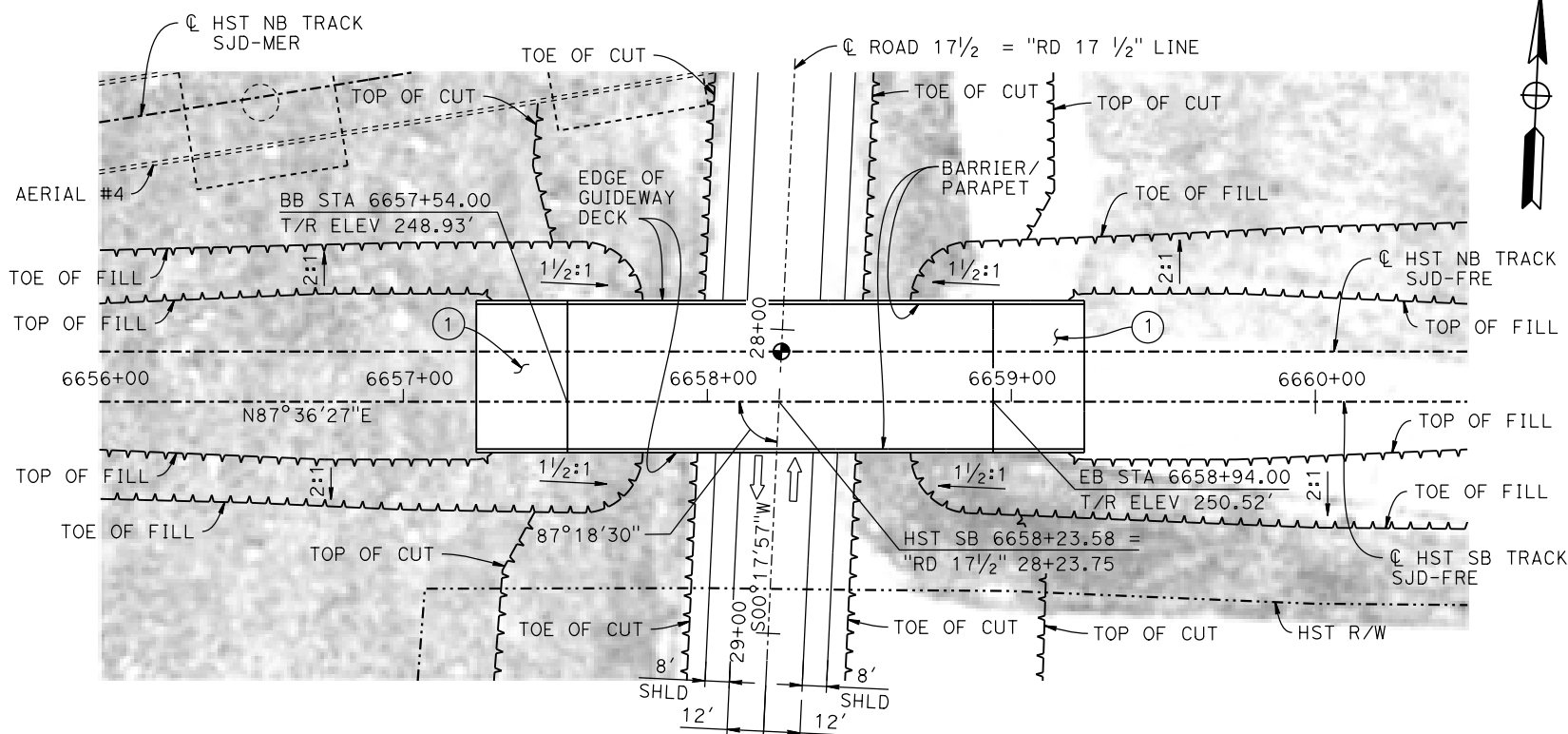
TOP OF RAIL PROFILE (CL HST SB TRACK)
NO SCALE



ELEVATION
1" = 30'



TYPICAL SECTION
1" = 10'



PLAN
1" = 30'

LEGEND:

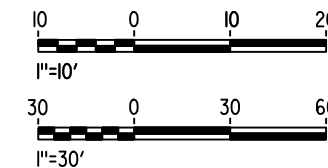
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2 H:1 V)

NOTES:

1. 16"Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1240-B.
3. FOR AERIAL #4 - NORTHBOUND OVER HST MAINLINE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1620-B TO ST-K1622-B, ST-K3620-B AND ST-K3621-B.

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)		
ROAD 17 1/2	6658+24	32'x16.5'	2-WAY
3. _ TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



16-MAR-2016 16:19 MF-ST-K1240-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

RECORD SET
15% DESIGN
SUBMITTAL

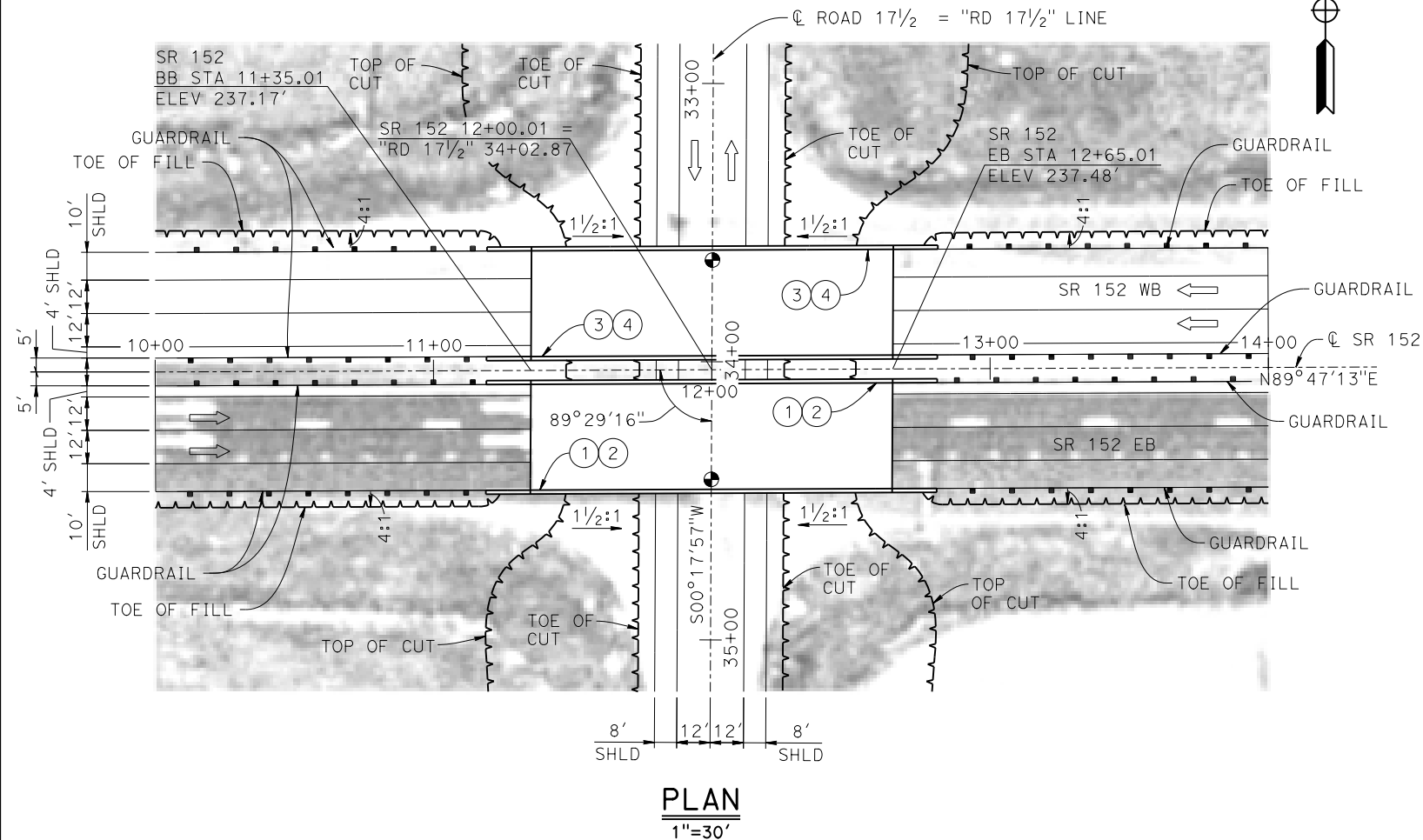
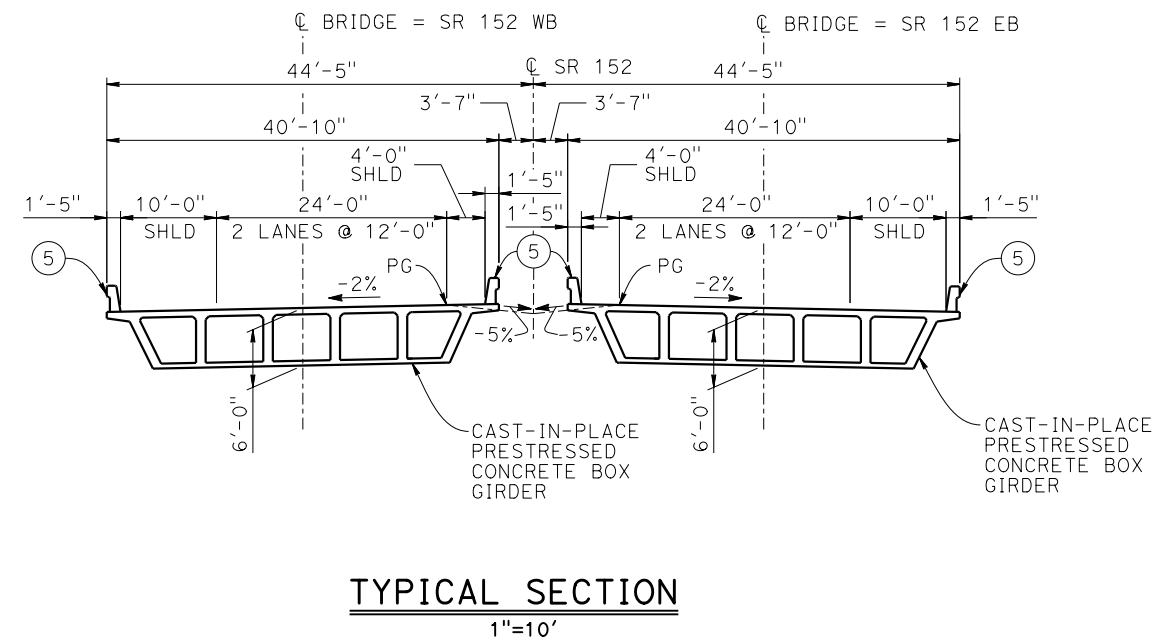
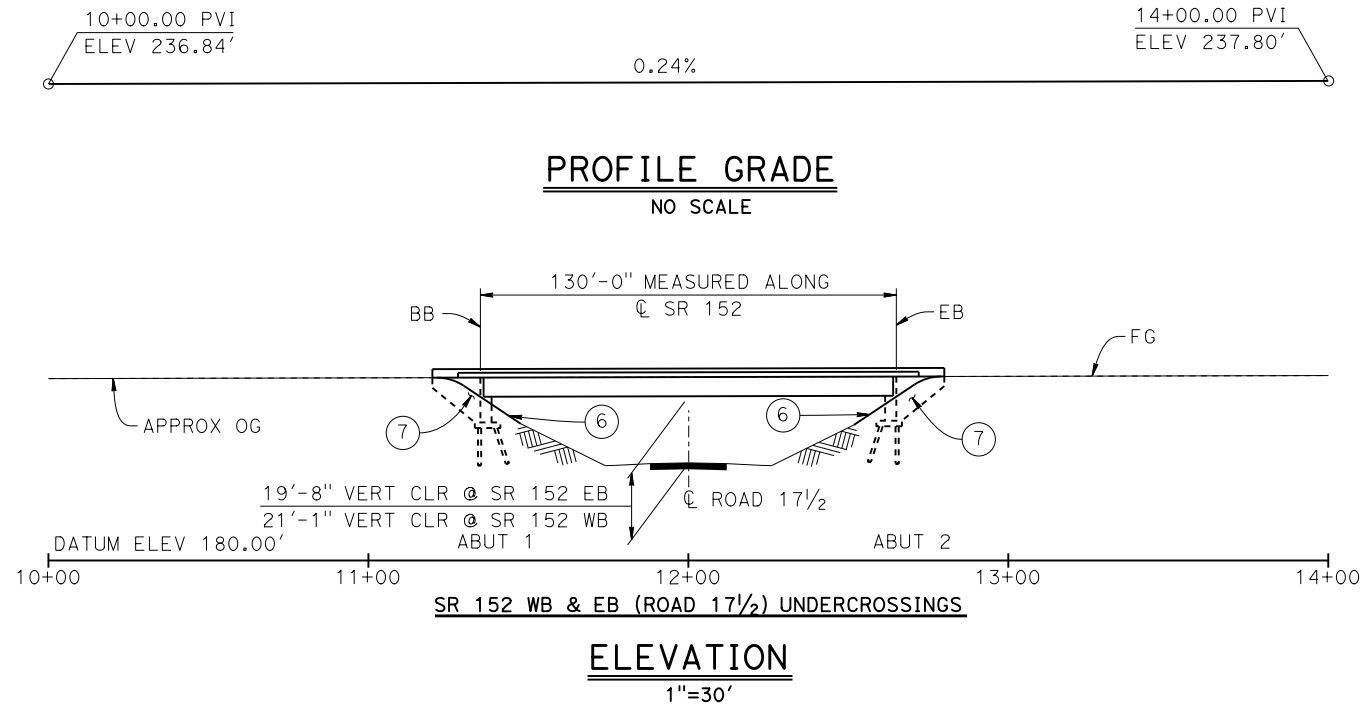
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
ROAD 17 1/2 UNDERPASS

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1240-B
SCALE AS SHOWN
SHEET NO.



LEGEND:

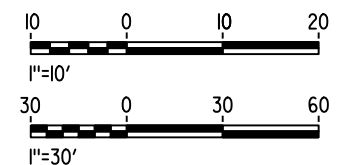
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① PAINT "SR 152 EB (ROAD 17 1/2) UNDERCROSSING"
- ② PAINT "BRIDGE NO. XX-XXXX"
- ③ PAINT "SR 152 WB (ROAD 17 1/2) UNDERCROSSING"
- ④ PAINT "BRIDGE NO. XX-XXXX"
- ⑤ CONCRETE BARRIER TYPE 732
- ⑥ SLOPE PAVING (1 1/2 H:1 V)
- ⑦ WINGWALL

NOTES:

1. ASSUME CLASS 140 PILES AT ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1240-B.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1240-B.

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 17 1/2	12+00	-	-
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



MF-ST-K1245-B.dgn
 09-FEB-2015 09:27
 P005133G

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

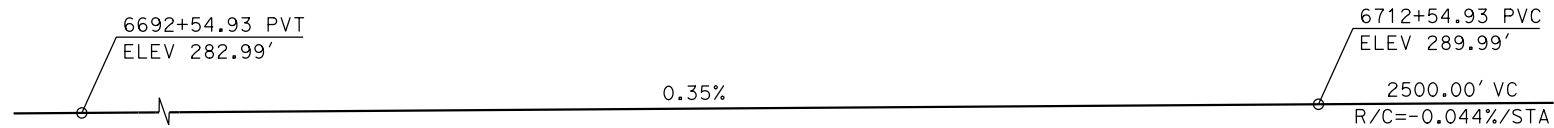
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



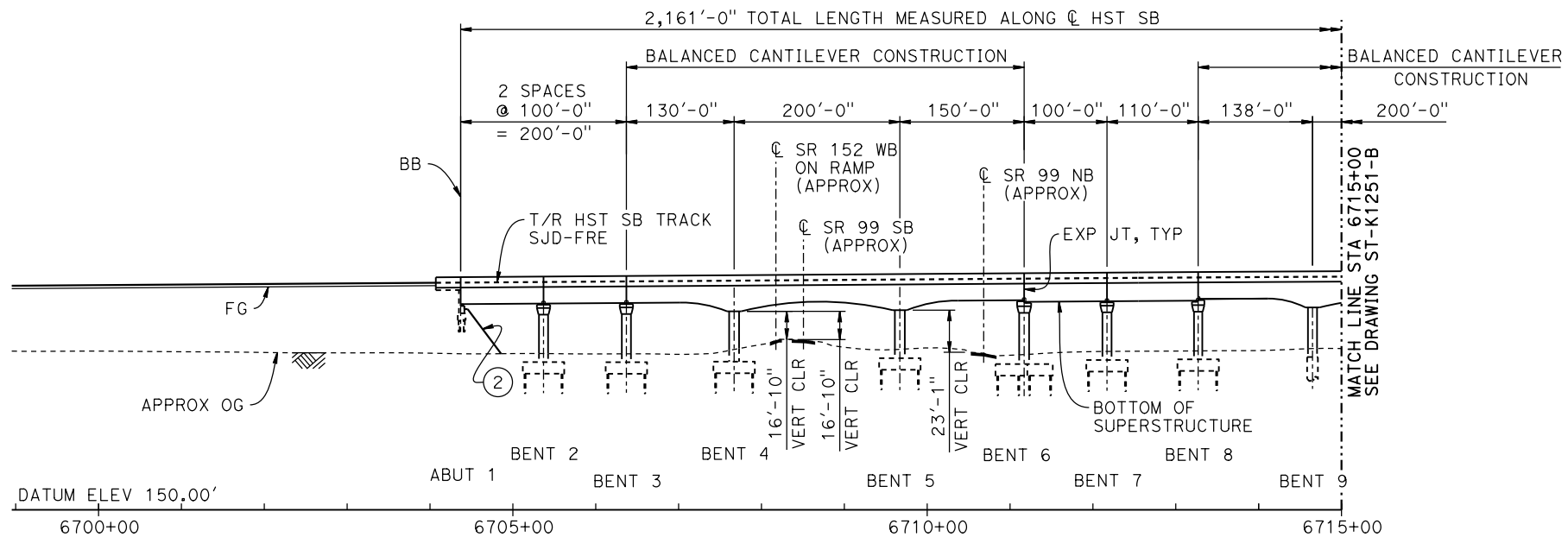
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (SJD-FRE)
 SR 152 (ROAD 17 1/2) UNDERCROSSING

CONTRACT NO.
HSR08-05
 DRAWING NO.
ST-K1245-B
 SCALE
AS SHOWN
 SHEET NO.



TOP OF RAIL PROFILE (C HST SB TRACK)

NO SCALE



DEVELOPED ELEVATION

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

LEGEND:

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

CURVE SJD-FRE 6 SB (A)

R = 28,600.00'
LS = 2,000.00'

CURVE NO. 250-02 (B)

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

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

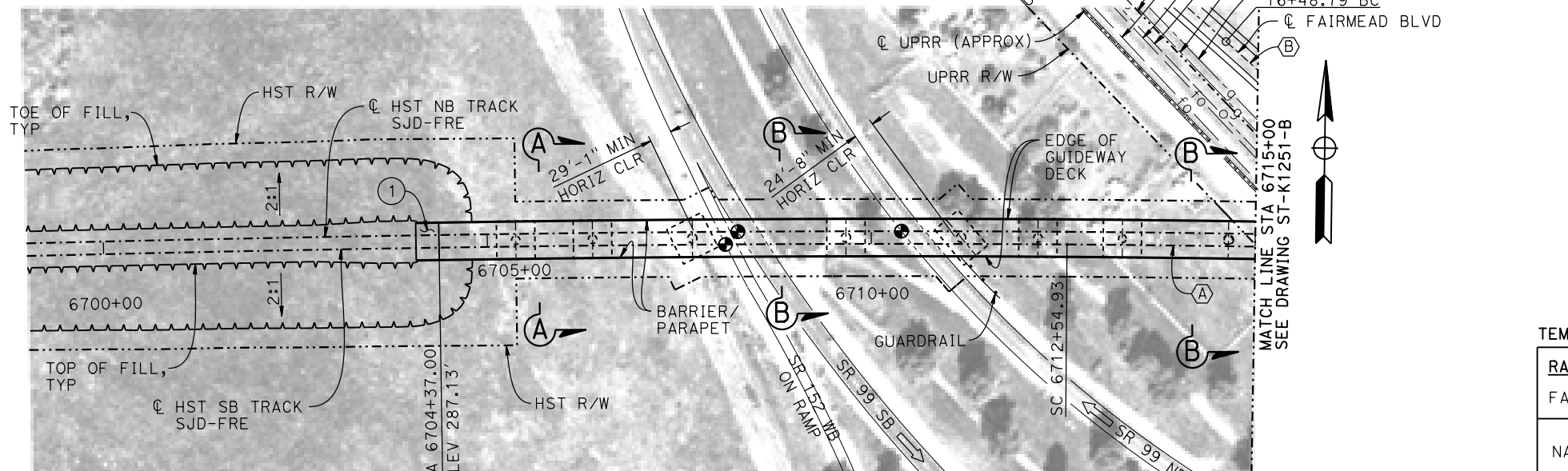
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION		FALSEWORK OPENING REQD (HORIZ X VERT)	
SR 152 WB ON RAMP	6708+18	25'X16.5'	S BND
SR 99	6708+51	37'X16.5'	S BND
SR 99	6710+68	37'X16.5'	N BND
FAIRMEAD BLVD	6717+33	32'X16.5'	2-WAY
ARC DR	6719+51	32'X16.5'	2-WAY
ROAD 18 3/4	6724+43	32'X16.5'	2-WAY

3. X TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

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-B.
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-B.
5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1250-B.

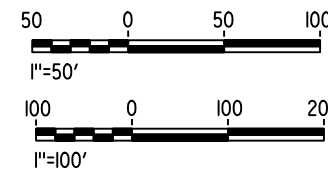


PLAN

1" = 100'

TEMPORARY TRAFFIC OPENINGS

RAILROAD TRAFFIC		
FALSEWORK OPENING REQUIRED ON:		
NAME OF RR AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)	
UPRR	6715+73	24' X 21'



16-MAR-2016 6:20 MF-ST-K1250-B.dgn

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 1 OF 3

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1250-B

SCALE
AS SHOWN

SHEET NO.

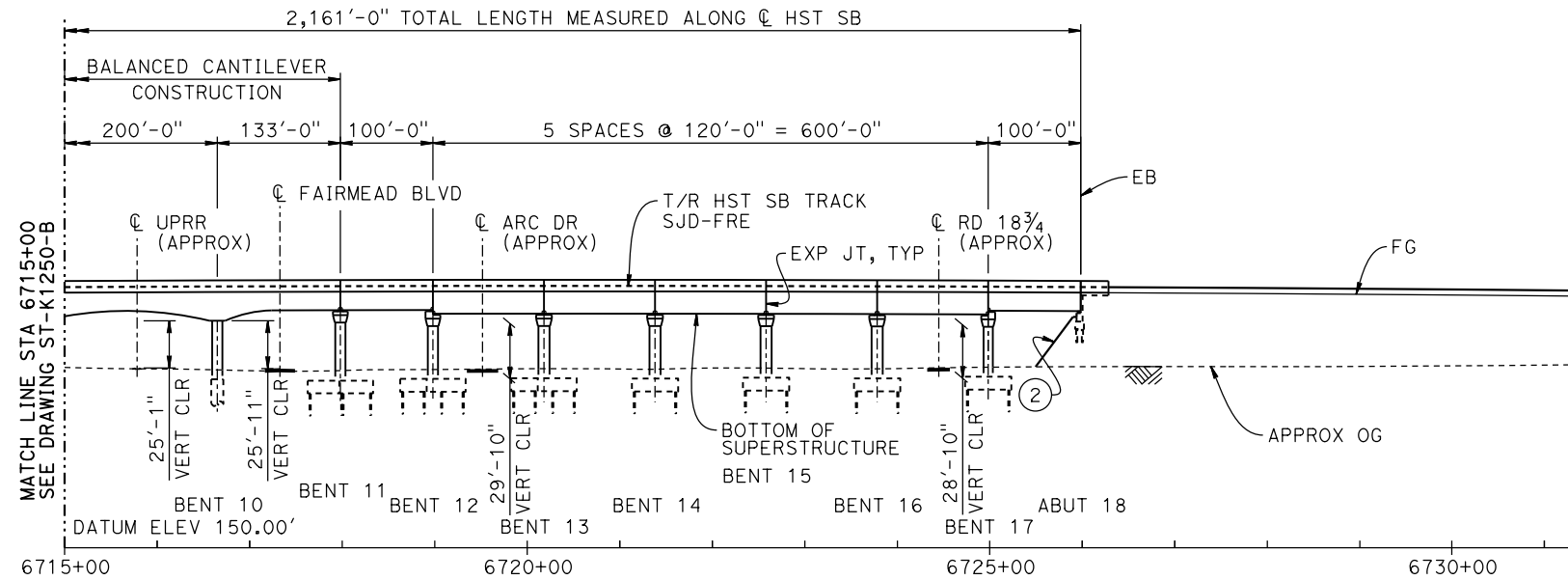
6737+54.93 PVT
ELEV 285.06'

2500.00' VC
R/C=-0.044%/STA

-0.74%

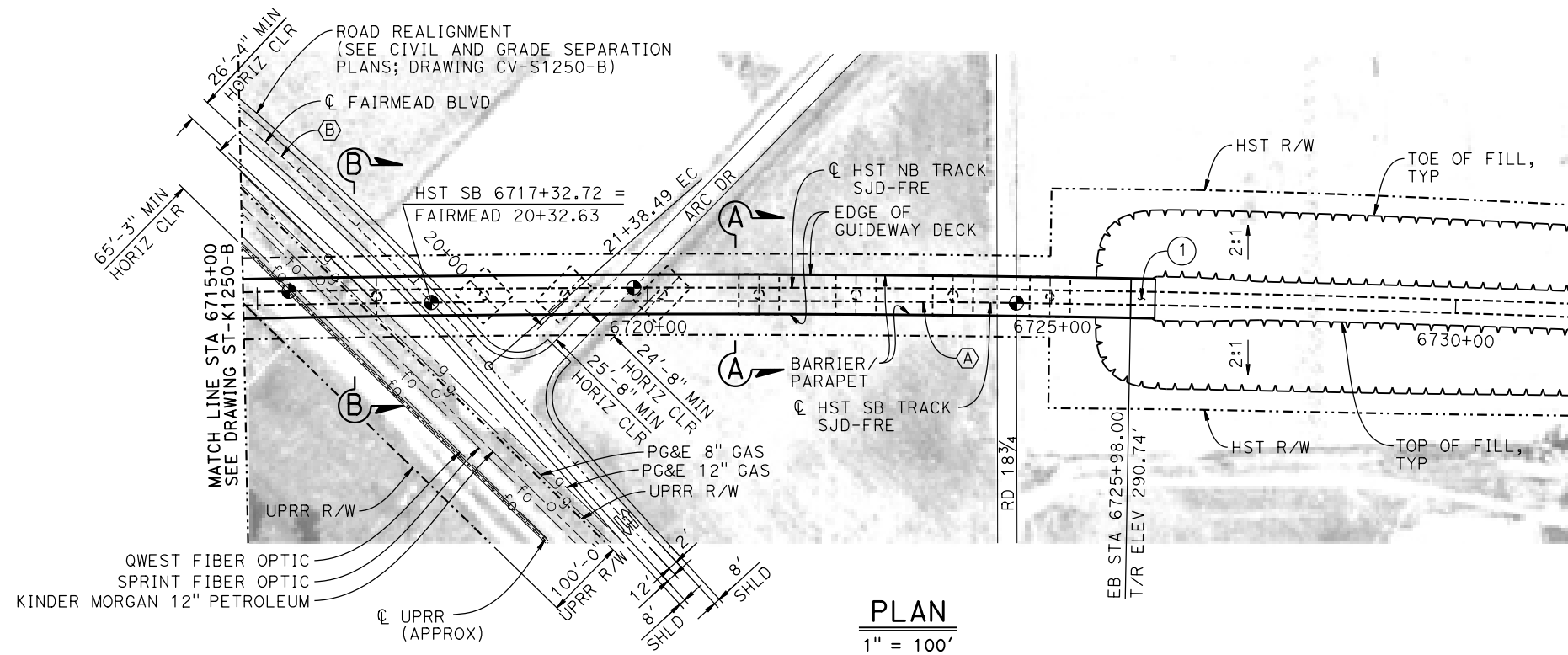
TOP OF RAIL PROFILE (CL HST SB TRACK)

NO SCALE



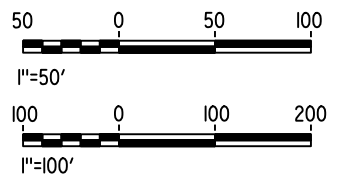
DEVELOPED ELEVATION

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



PLAN

1" = 100'



07-FEB-2015 09:48 MF-ST-K1251-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
R. 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

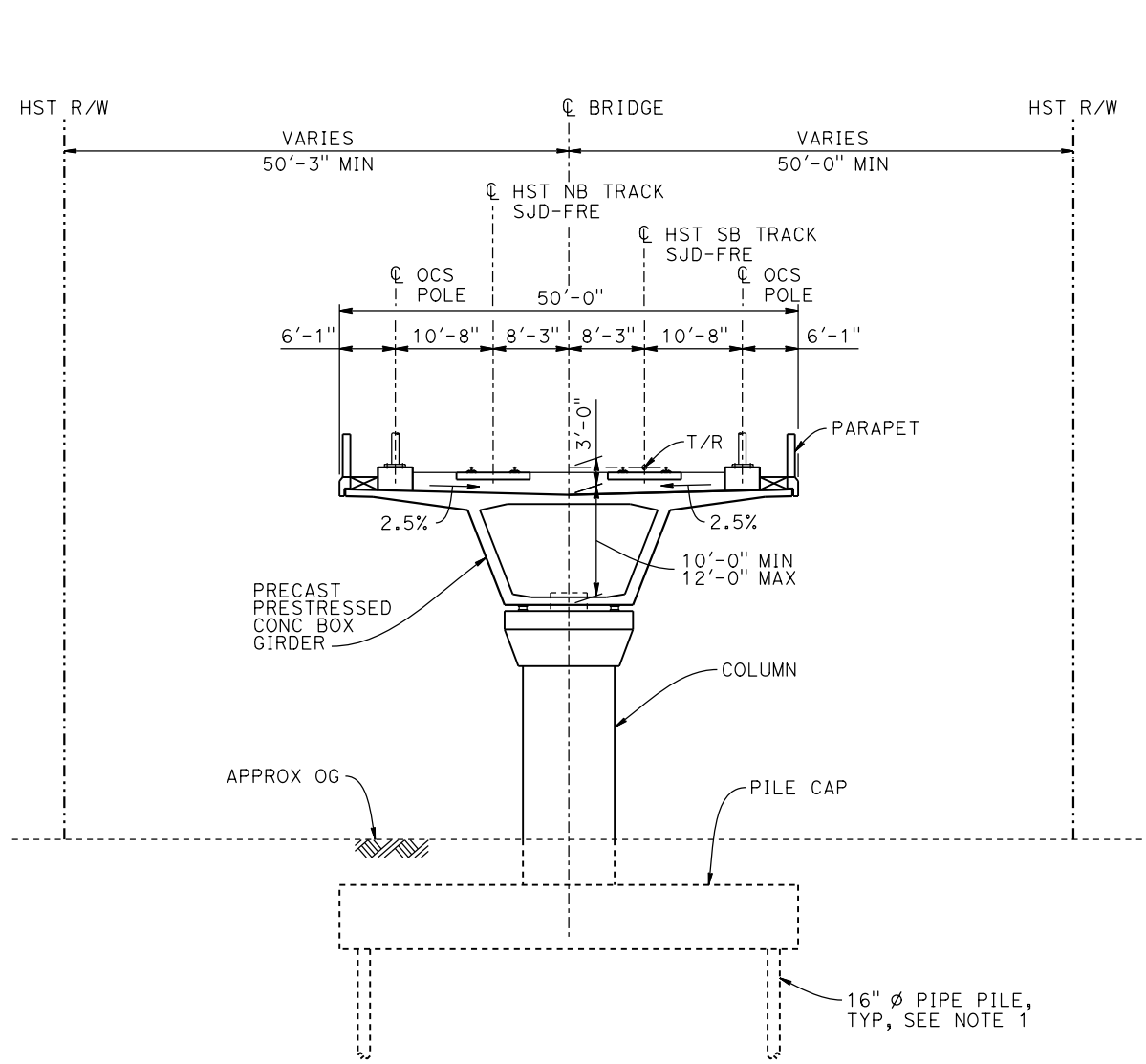
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 2 OF 3

CONTRACT NO.
HSR08-05

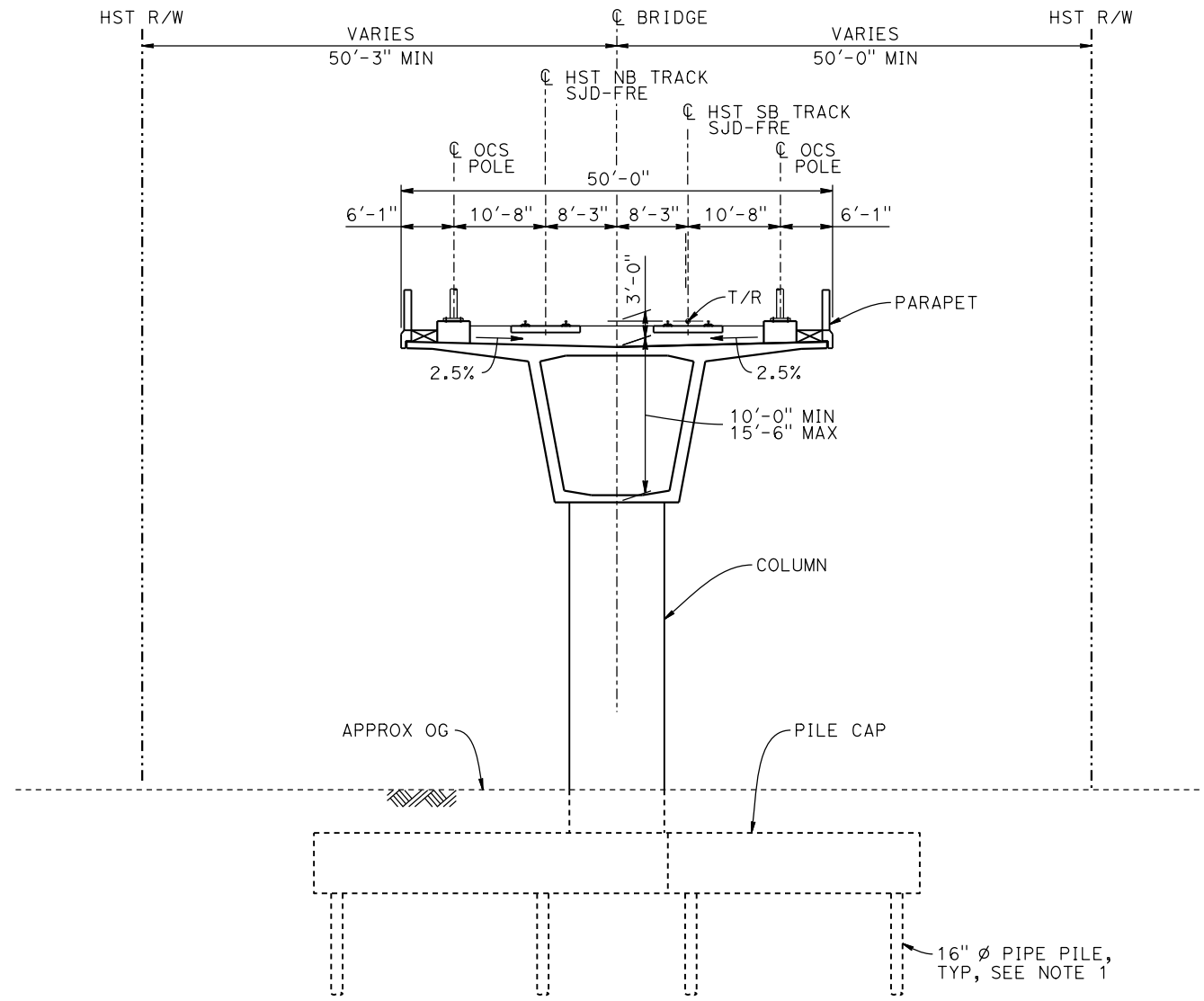
DRAWING NO.
ST-K1251-B

SCALE
AS SHOWN

SHEET NO.



SECTION A-A
1" = 10'



SECTION B-B
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2 - 3	11'-0"Ø	
4 - 5	12'-0"Ø	
6	12'-0"Ø	
7	11'-0"Ø	
8	10'-0"Ø	
9 - 10	11'-0"Ø	13'-0"Ø
11 - 12	11'-0"Ø	
13 - 16	12'-0"Ø	
17	10'-0"Ø	

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



16-MAR-2016 16:20 MF-ST-K3250-B.dgn

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

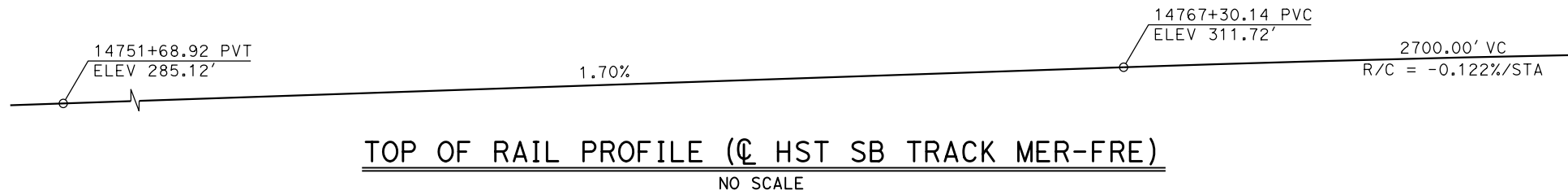
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-FRE)
AERIAL #2 - SR 99 / UPRR - 3 OF 3

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K3250-B

SCALE
AS SHOWN

SHEET NO.



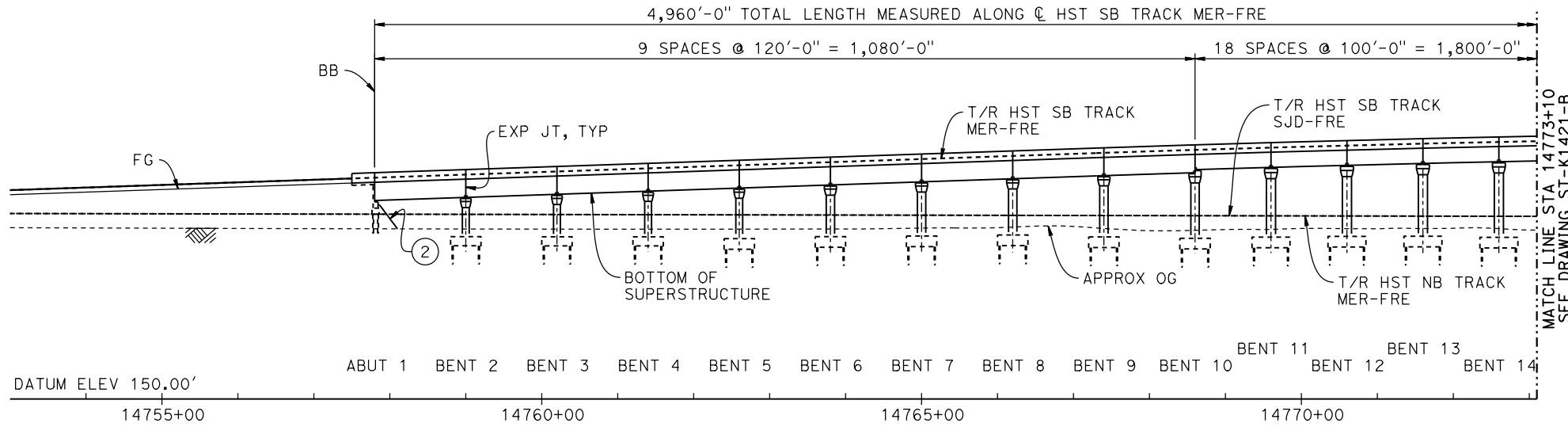
- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ➔ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1½H:1V)

CURVE MER-FRE 1 SB (A)

R = 10,300.00'
LS = 1,200.00'

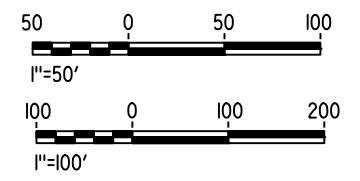
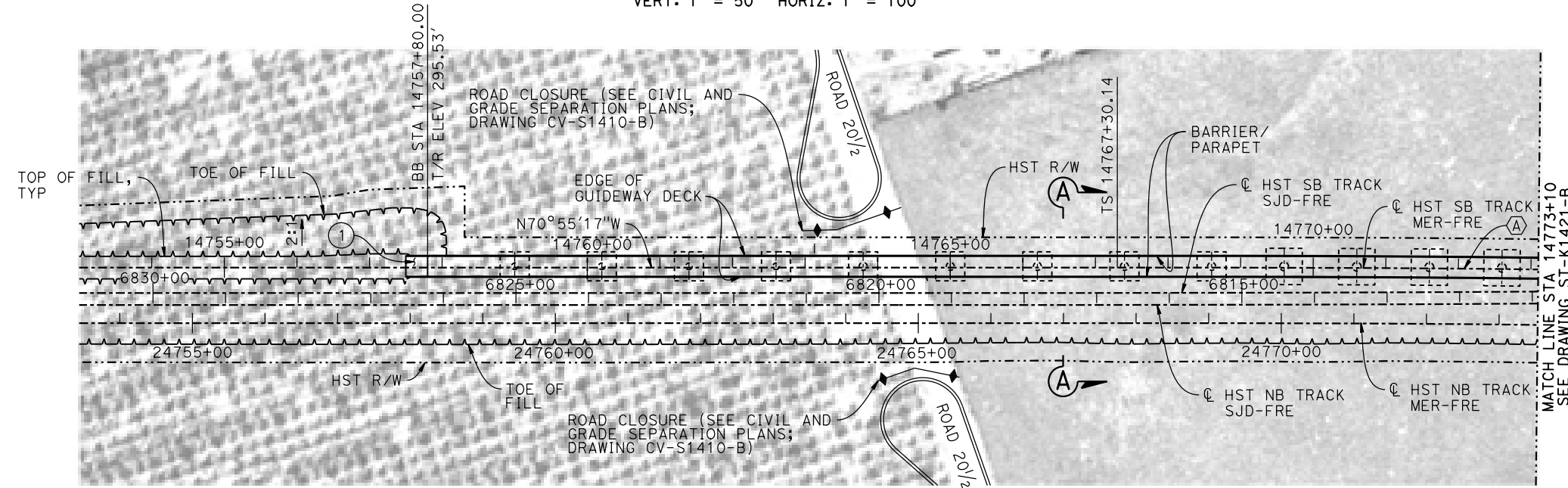
TEMPORARY TRAFFIC OPENINGS

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)		
ROAD 20	14793+07	32'X16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			



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-K3420-B AND ST-K3421-B.
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-B AND CV-S1420-B.
5. FOR ROAD 20 UNDERPASS GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1260-B.
6. FOR ROAD 20 UNDERPASS (HST NB) GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1425-B.



19-MAY-2015 11:58 MF-ST-K1420-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
A. M.

CHECKED BY
K. CHARAN

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)

AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 1 OF 5

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1420-B

SCALE
AS SHOWN

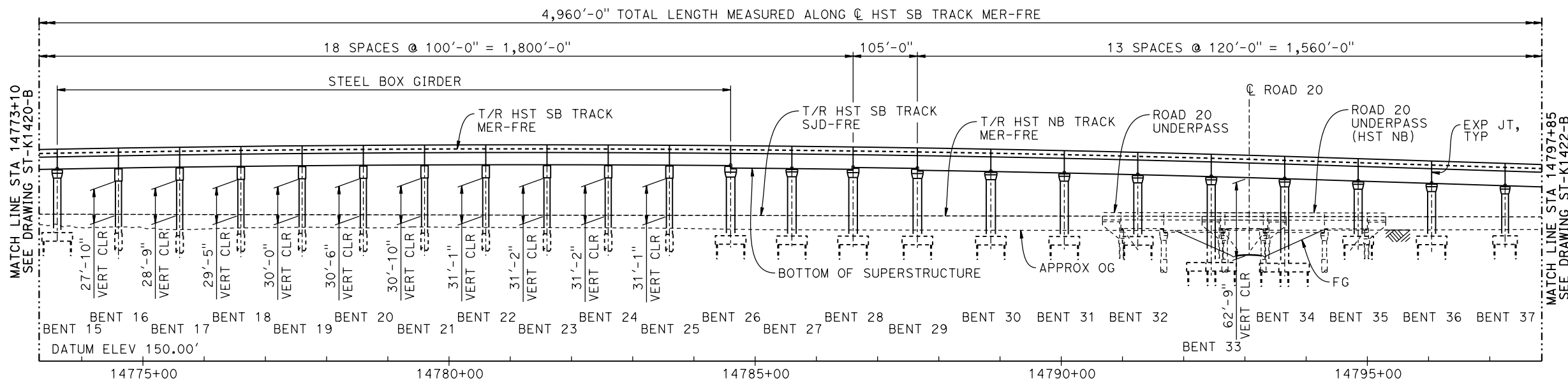
SHEET NO.

2700.00' VC
R/C = -0.122%/STA

14794+30.14 PVT
ELEV 313.12'
-1.60%

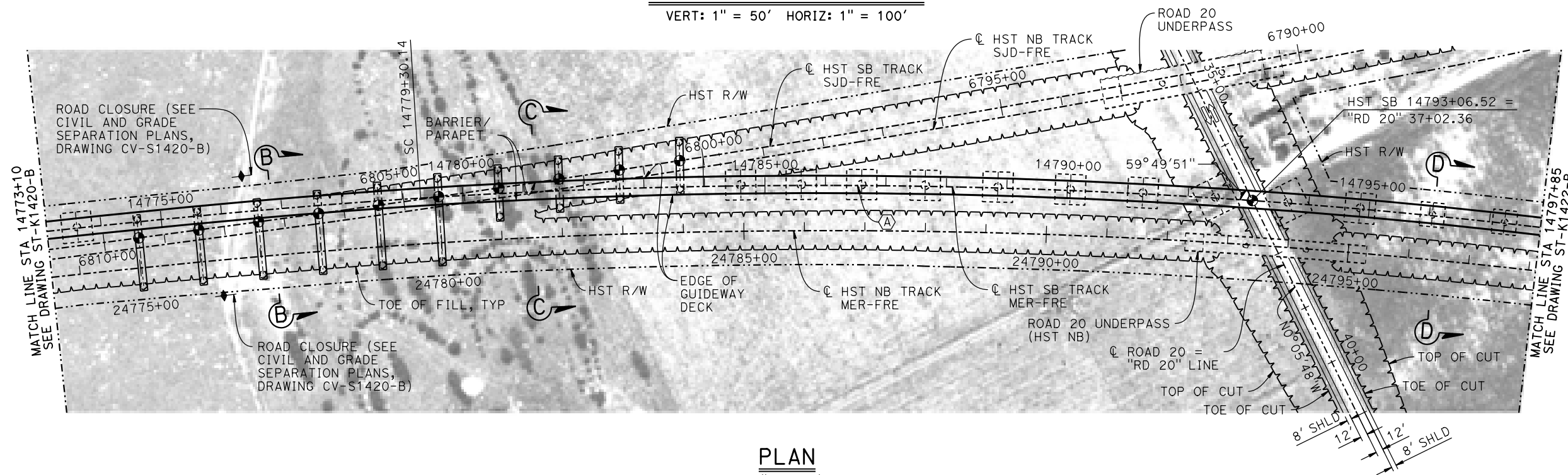
TOP OF RAIL PROFILE (C HST SB TRACK MER-FRE)

NO SCALE



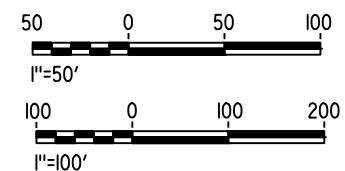
DEVELOPED ELEVATION

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



PLAN

1" = 100'



MF-ST-K1421-B.dgn

19-MAY-2015 2:04

P0028989

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
A. M.

CHECKED BY
K. CHARAN

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)

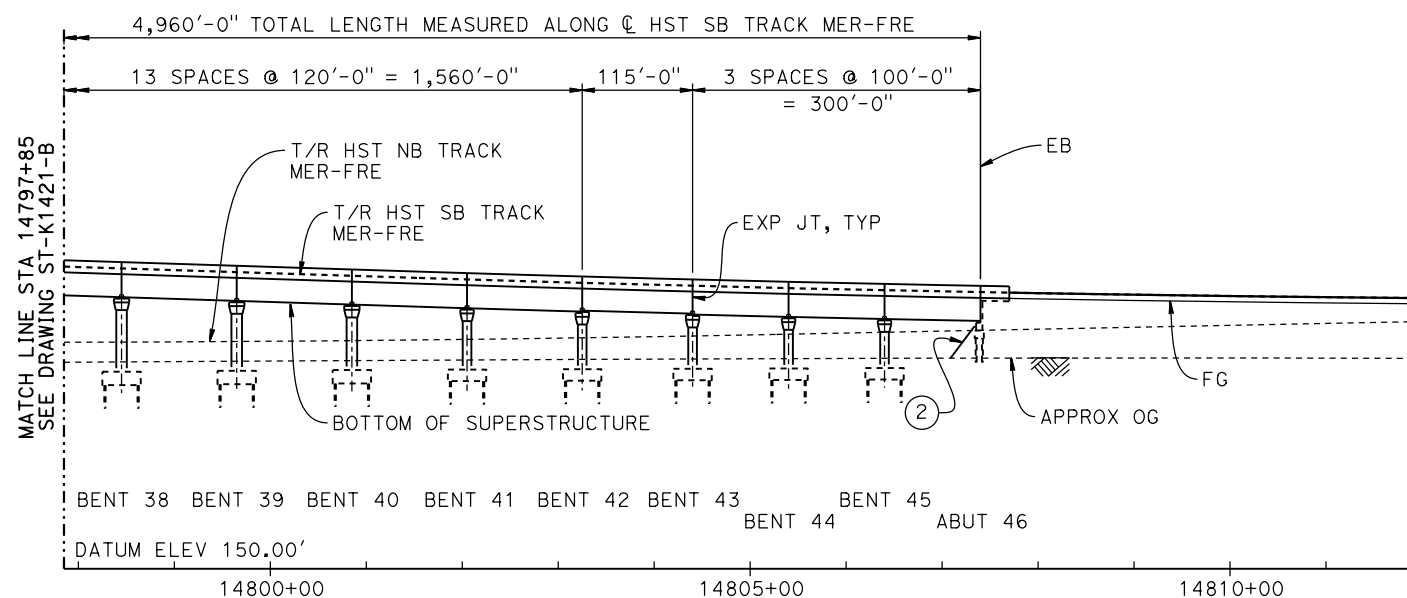
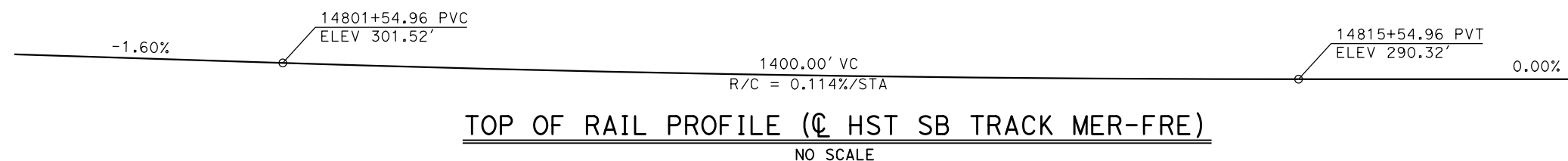
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 2 OF 5

CONTRACT NO.
HSR08-05

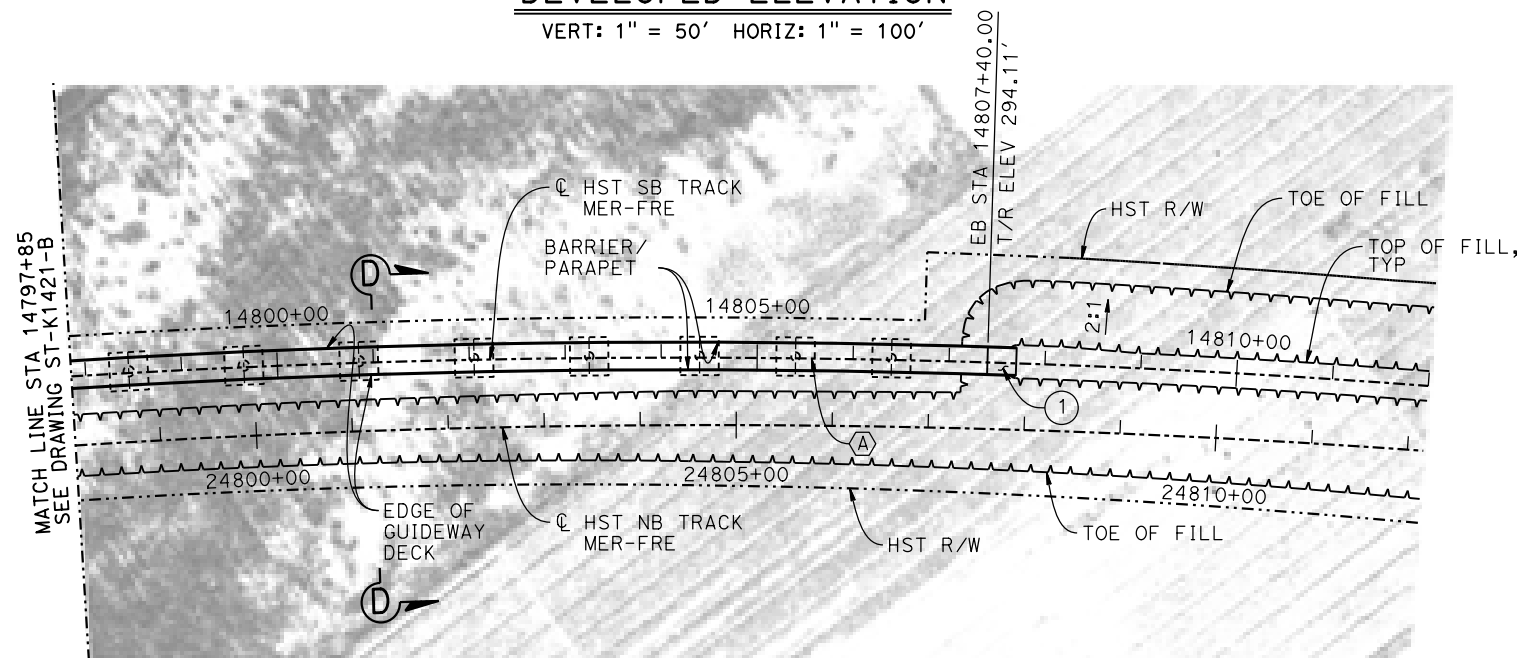
DRAWING NO.
ST-K1421-B

SCALE
AS SHOWN

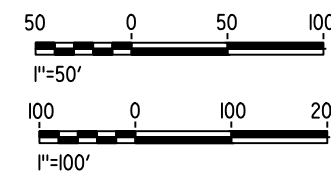
SHEET NO.



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



PLAN
1" = 100'



19-MAY-2015 16:56 MF-ST-K1422-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
A. M.

CHECKED BY
K. CHARAN

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

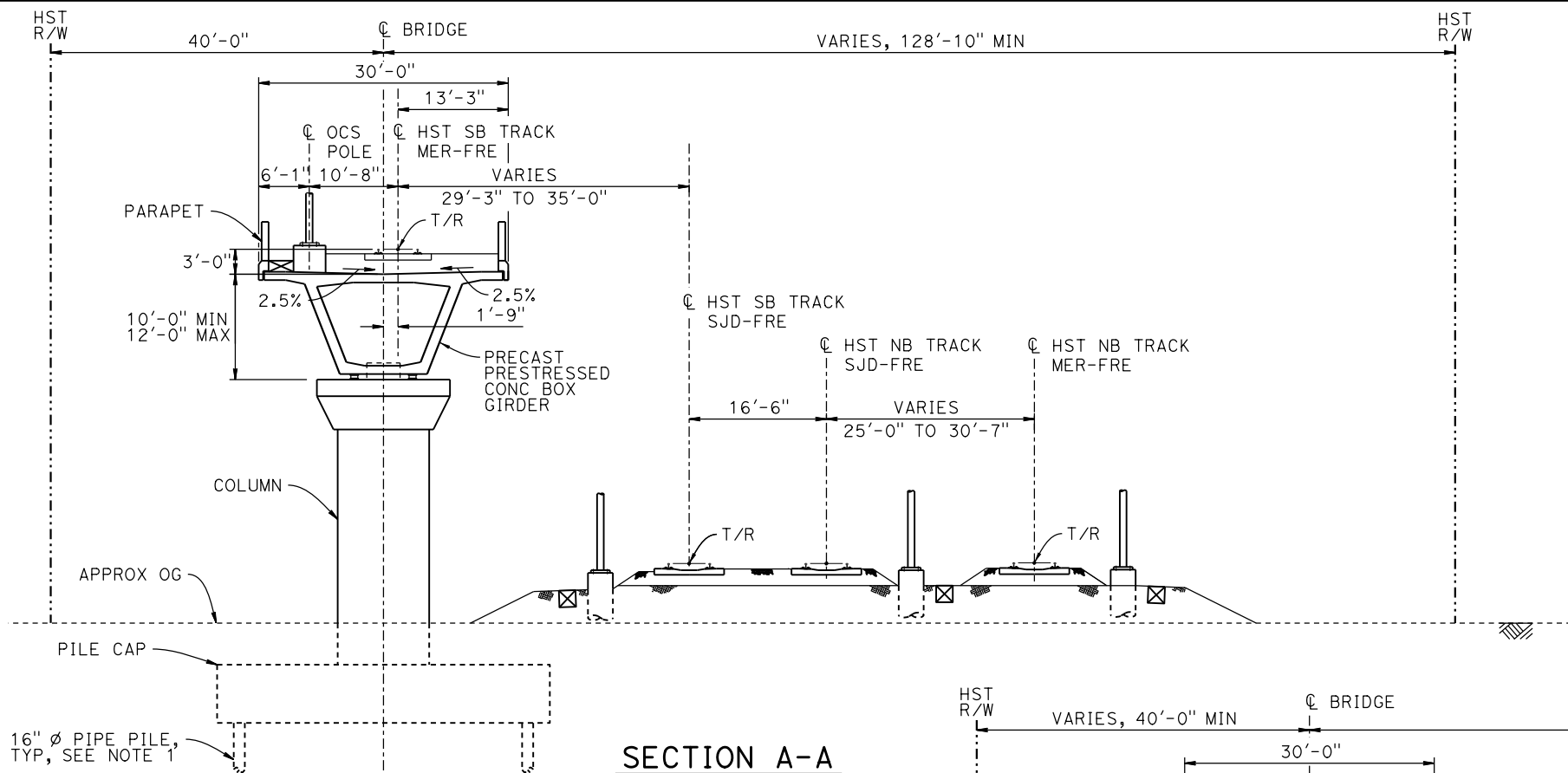
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 3 OF 5

CONTRACT NO.
HSR08-05

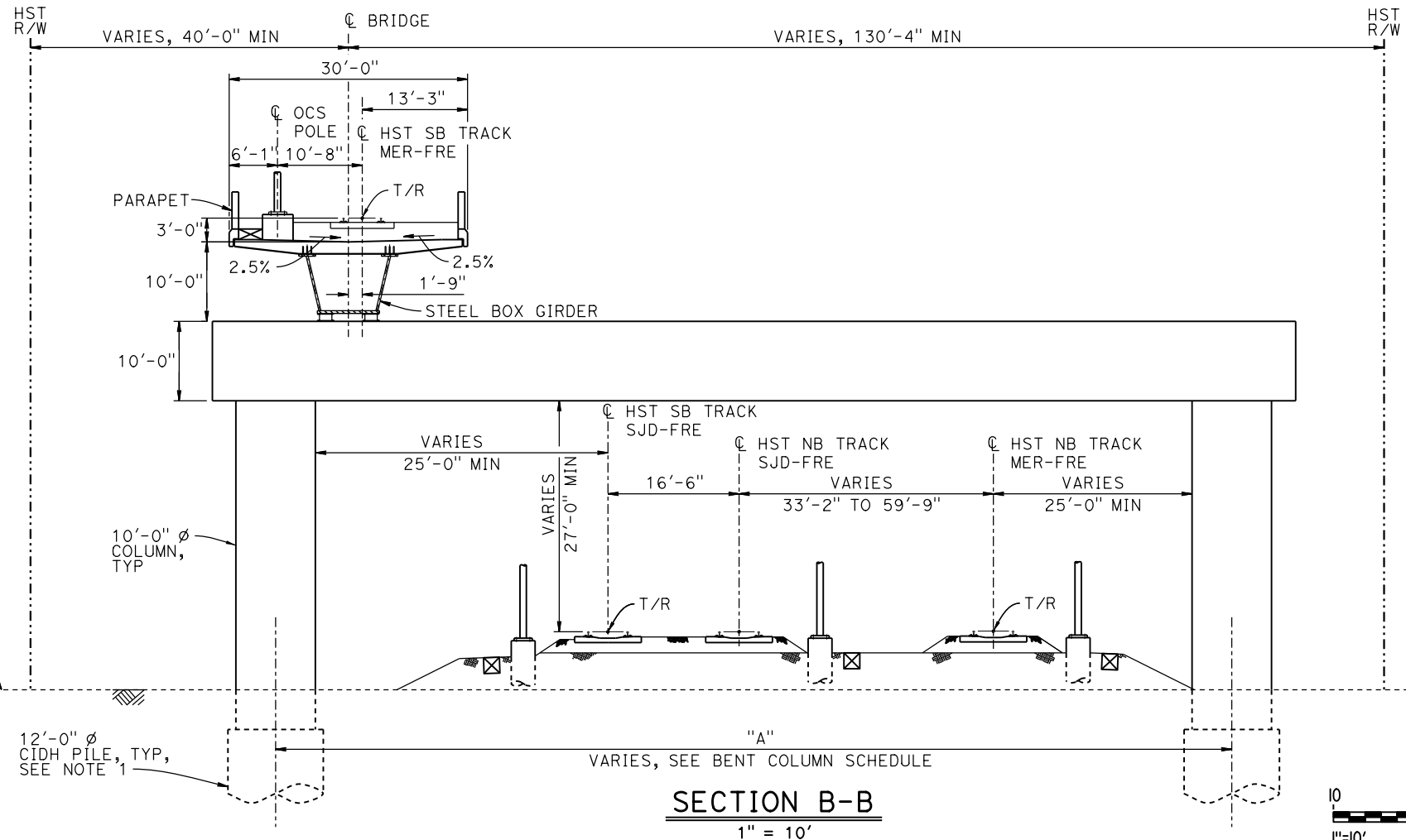
DRAWING NO.
ST-K1422-B

SCALE
AS SHOWN

SHEET NO.



SECTION A-A
1" = 10'

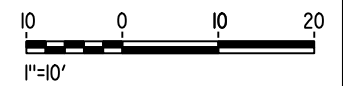


SECTION B-B
1" = 10'

NOTES:

1. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0055-B.

BENT COLUMN SCHEDULE			
BENT	COLUMN TYPE	CIDH TYPE	"A"
2 - 4	9'-0" ϕ		
5	9'-0" ϕ	11'-0" ϕ	
6 - 7	11'-0" ϕ		
8	11'-0" ϕ	13'-0" ϕ	
9 - 10	11'-0" ϕ		
11 - 15	12'-0" ϕ		
16	2 - 10'-0" ϕ		110'-0"
17	2 - 10'-0" ϕ		114'-0"
18	2 - 10'-0" ϕ		117'-6"
19	2 - 10'-0" ϕ		123'-0"
20	2 - 10'-0" ϕ		129'-0"
21	2 - 10'-0" ϕ		136'-6"
22 - 23	2 - 10'-0" ϕ		77'-0"
24 - 25	2 - 10'-0" ϕ		77'-6"
26 - 29	14'-0" ϕ		
30 - 32	13'-0" ϕ		
33 - 34	16'-0" ϕ		
35	13'-0" ϕ		
36 - 40	11'-0" ϕ		
41 - 45	9'-0" ϕ		



19-MAY-2015 12:19 MF-ST-K3420-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

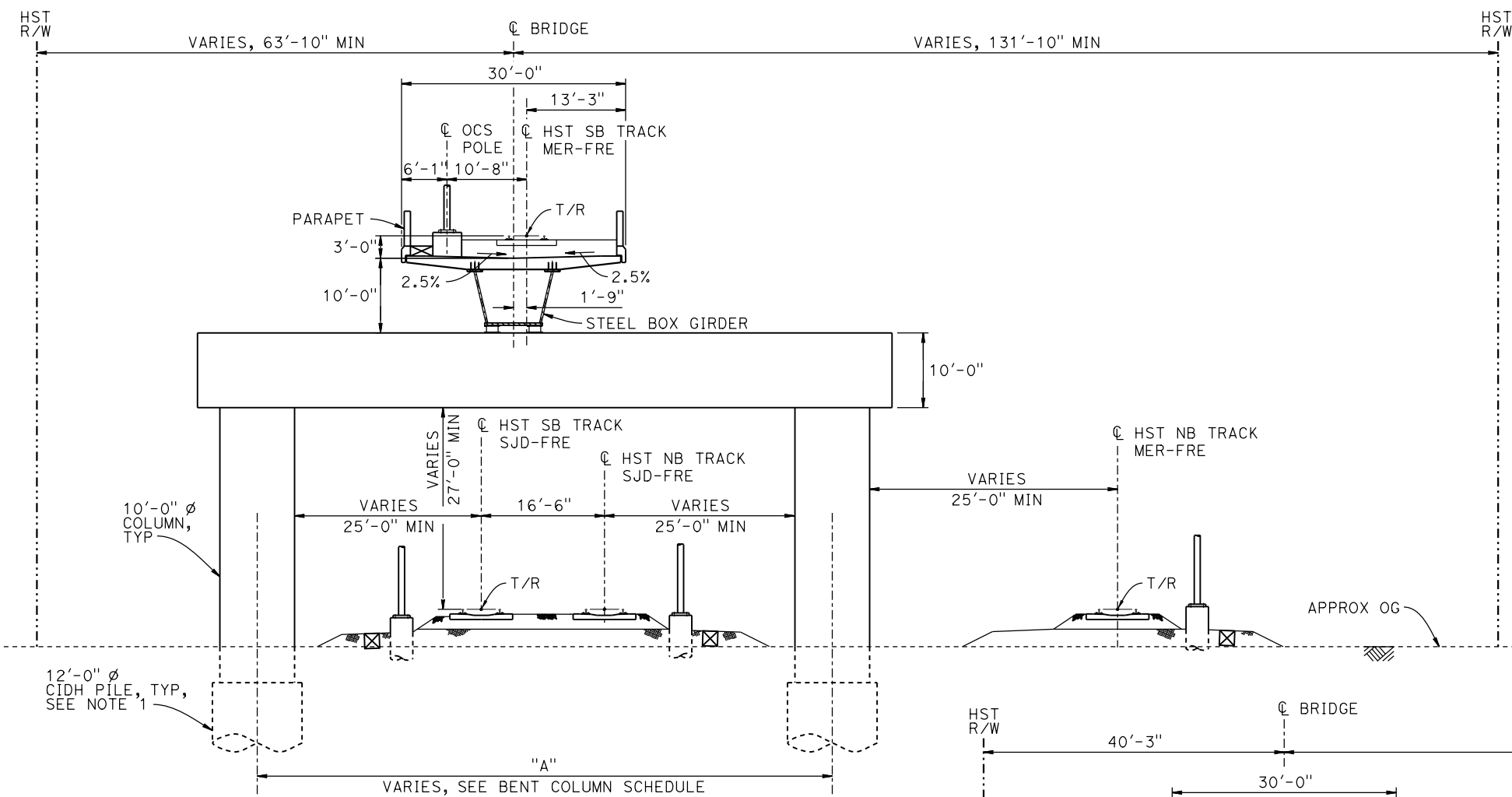
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

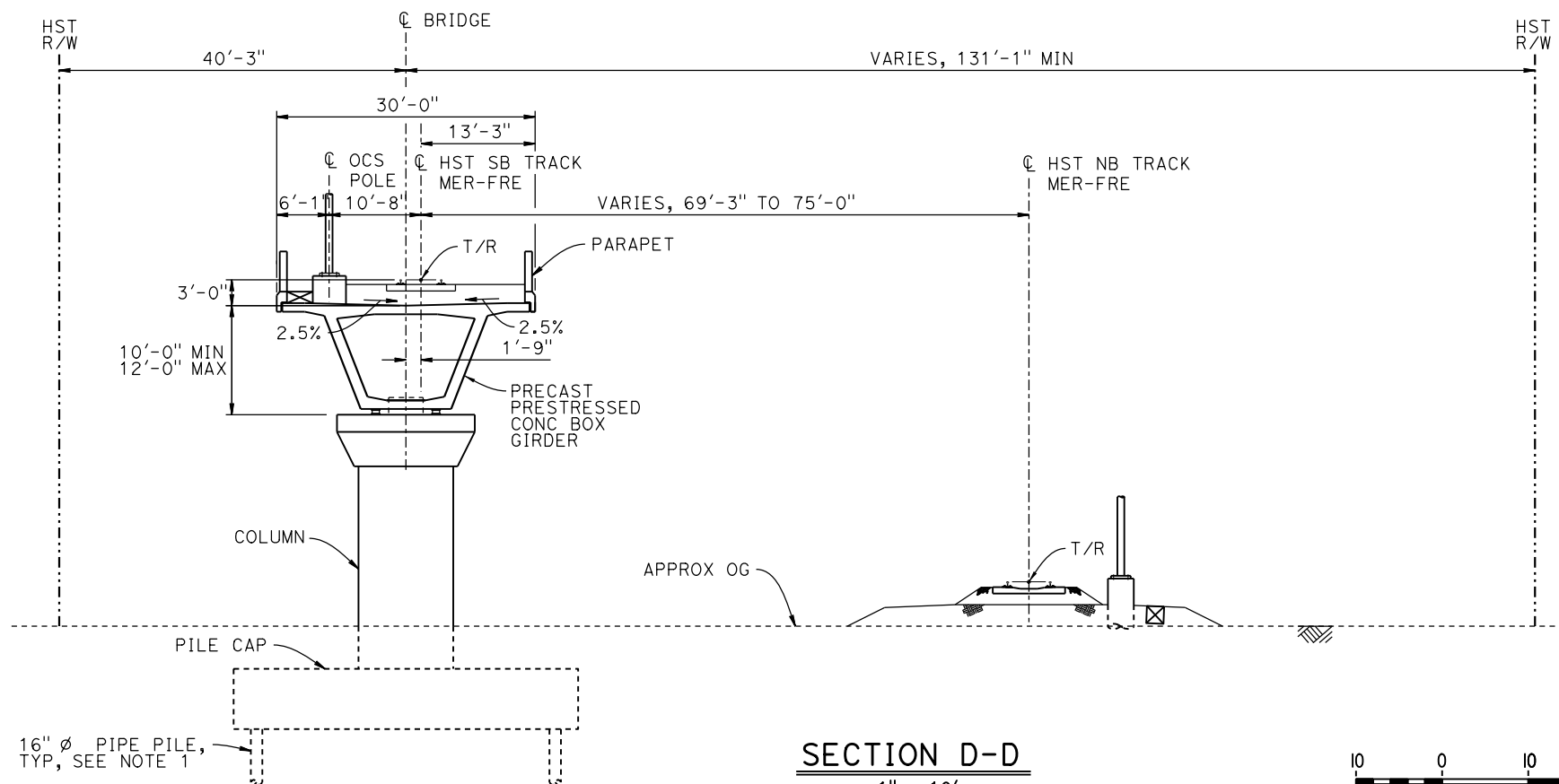


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 4 OF 5

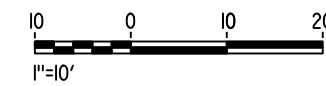
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K3420-B
SCALE
AS SHOWN
SHEET NO.



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-B0055-B.

19-MAY-2015 15:21:23 MF-ST-K3421-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

RECORD SET
15% DESIGN
SUBMITTAL

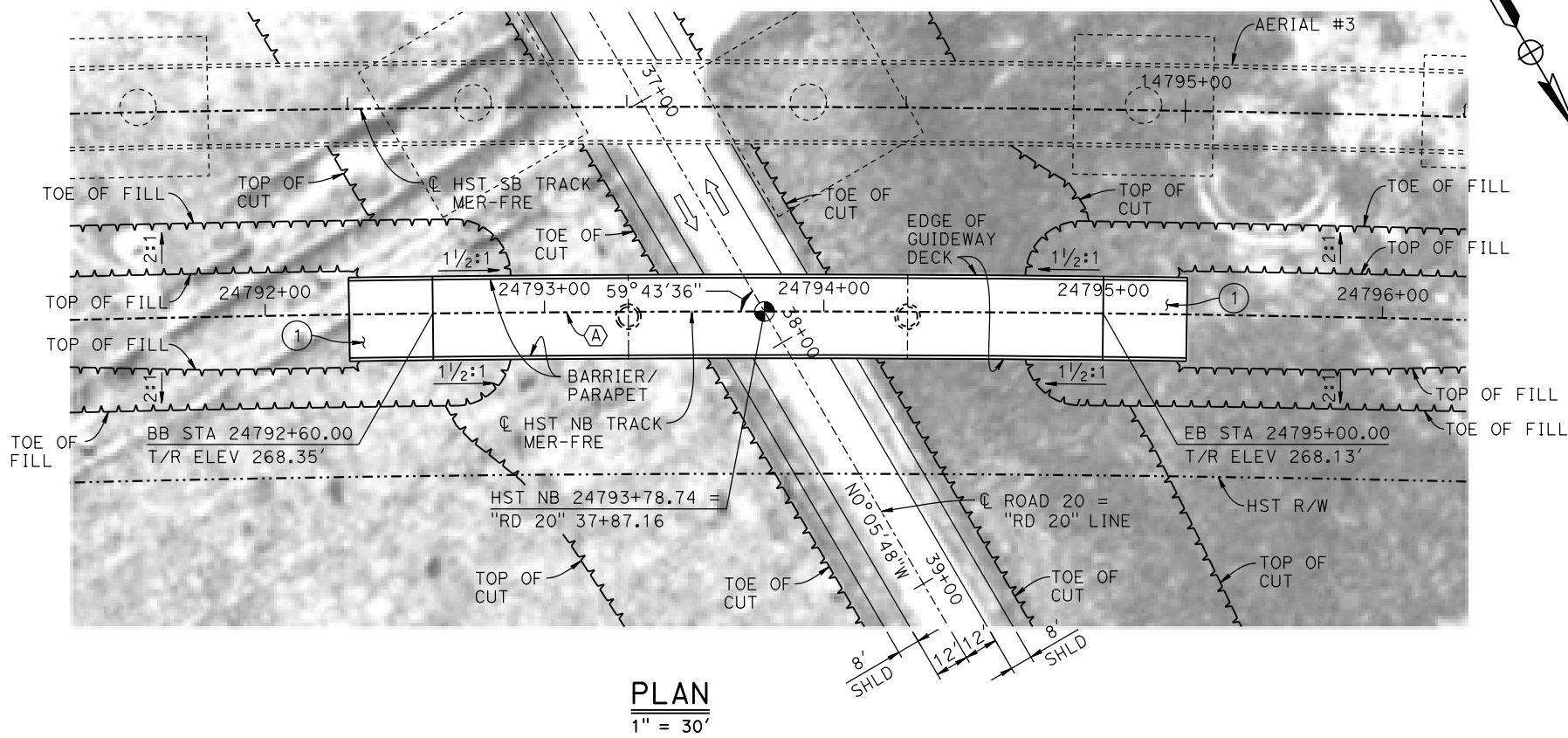
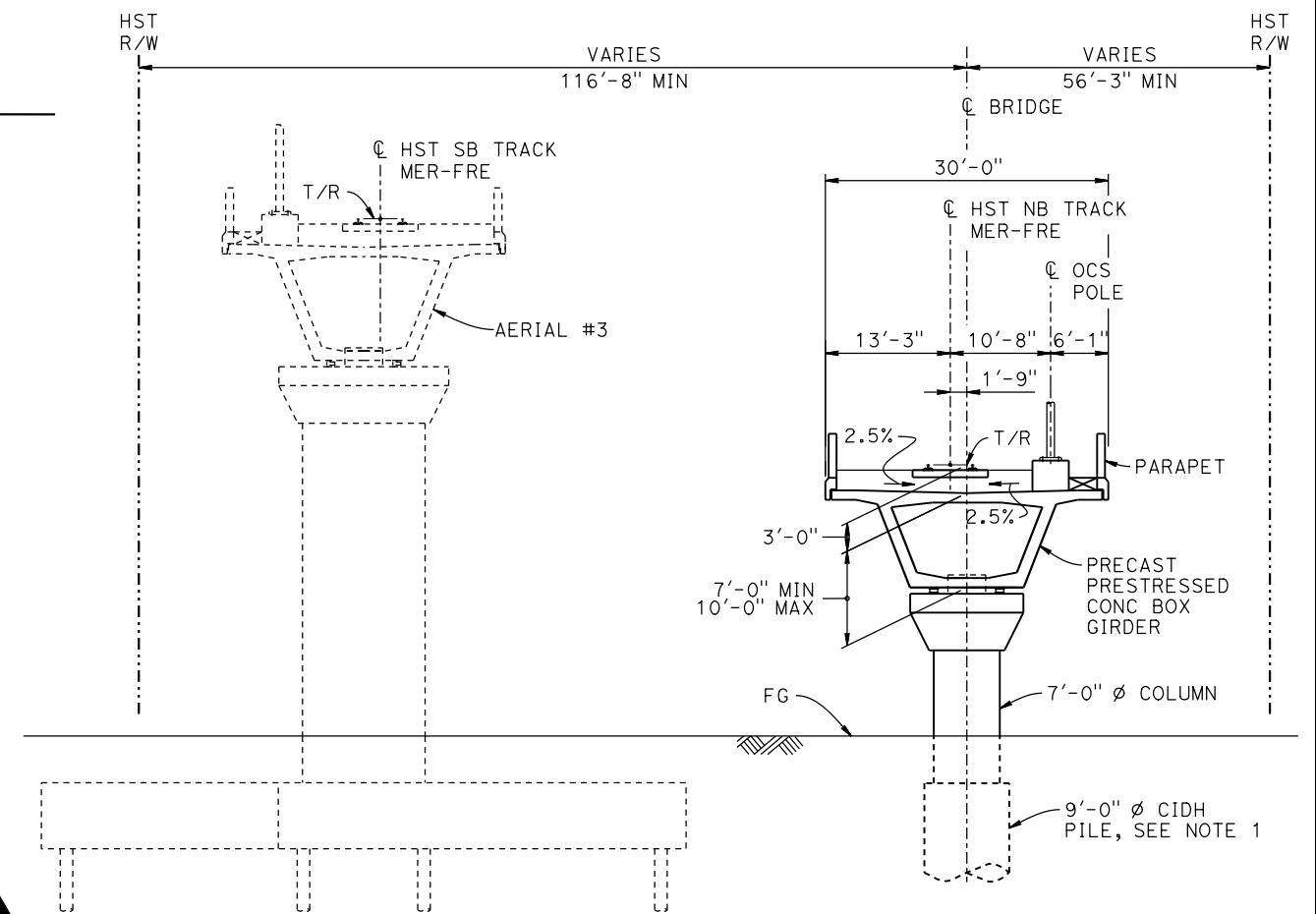
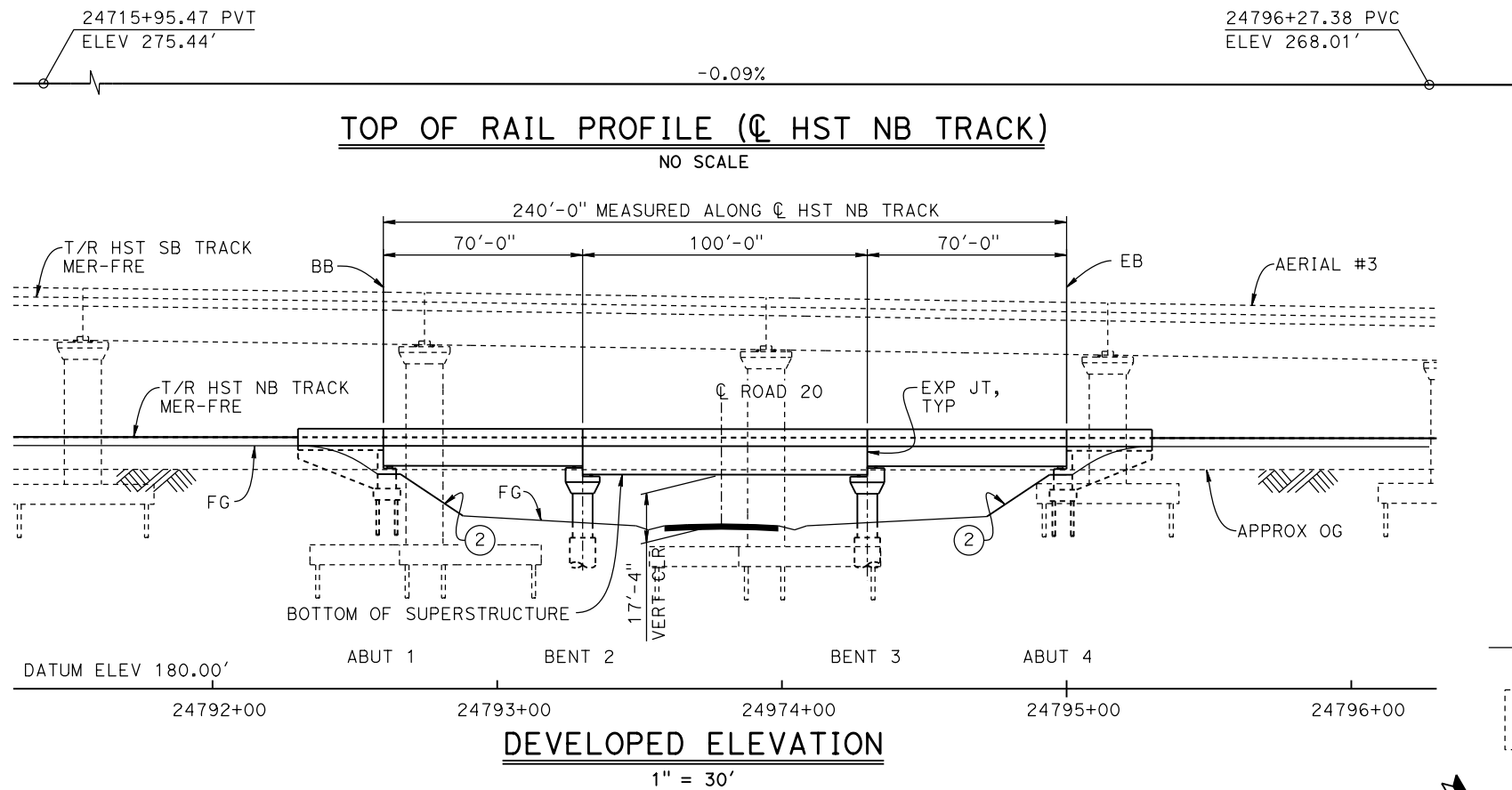
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (MER-FRE)
AERIAL #3 - SOUTHBOUND OVER HST MAINLINE - 5 OF 5

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



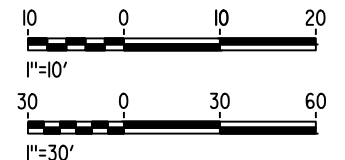
- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ⇒ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1 1/2 H:1 V)

- NOTES:**
1. 16"Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1420-B.
 3. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0057-B.
 4. FOR AERIAL #3 - SOUTHBOUND OVER HST MAINLINE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1420-B TO ST-K1422-B, ST-K3420-B AND ST-K3421-B.

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 20	24793+79 32'x16.5'	2-WAY	
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

CURVE MER-FRE 1 NB (A)
 R = 10,300.00'
 LS = 1,200.00'



MF-ST-K1425-B.dgn 20-MAY-2015 7:20 P0028989

REV	DATE	BY	CHK	APP	DESCRIPTION

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

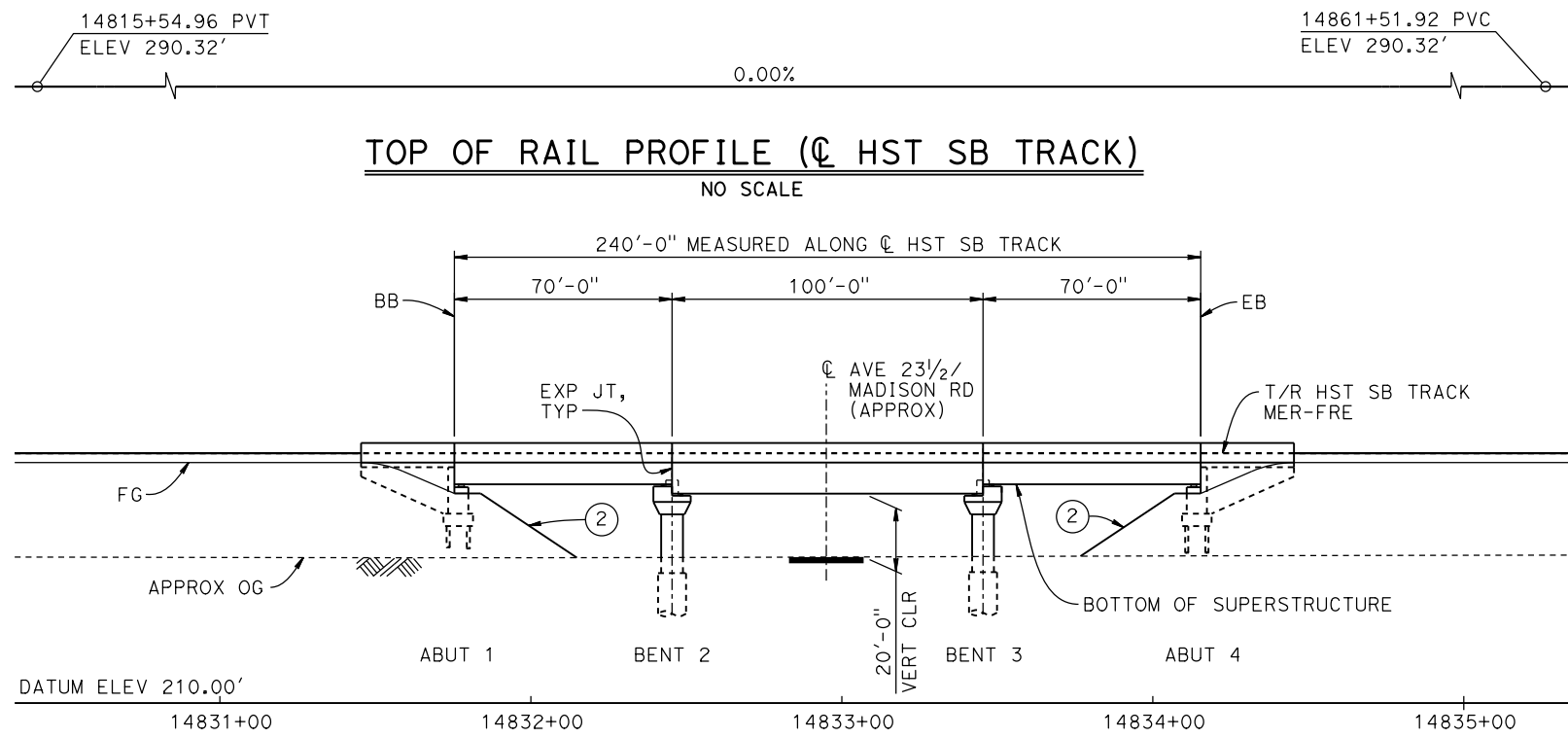
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

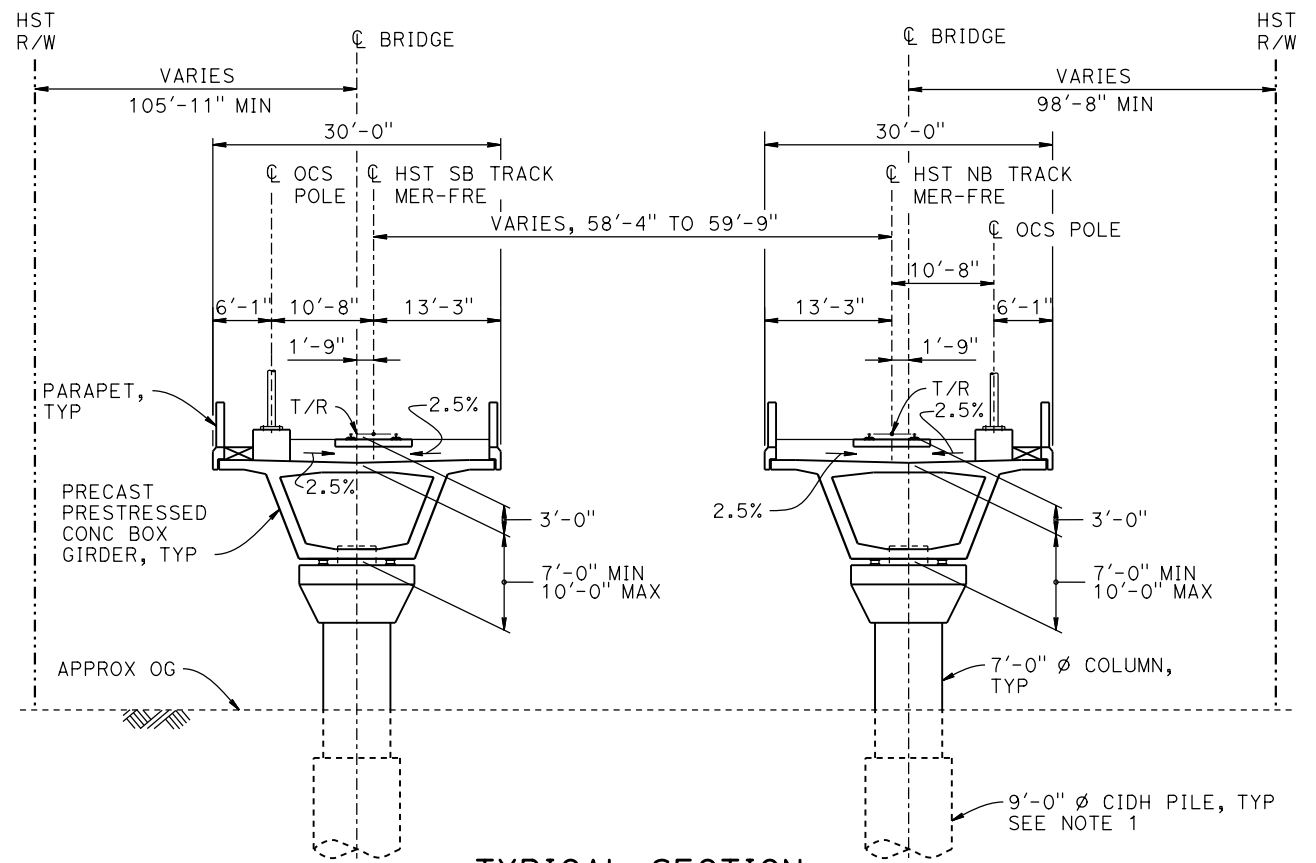


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
 CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (MER-FRE)
 ROAD 20 UNDERPASS (HST NB)

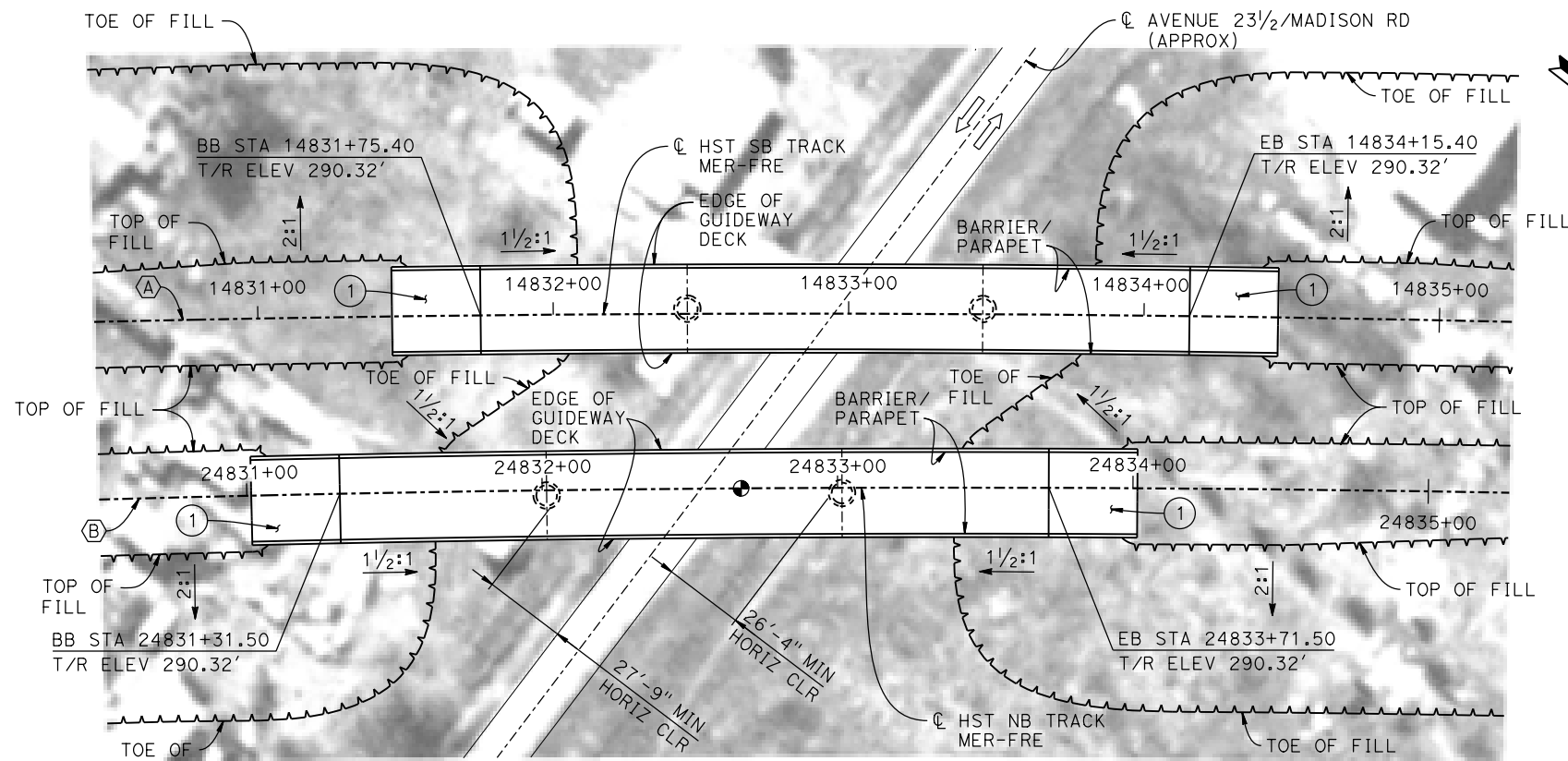
CONTRACT NO.
HSR08-05
 DRAWING NO.
ST-K1425-B
 SCALE
AS SHOWN
 SHEET NO.



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



TYPICAL SECTION
1" = 10'



PLAN
1" = 30'

TEMPORARY TRAFFIC OPENINGS

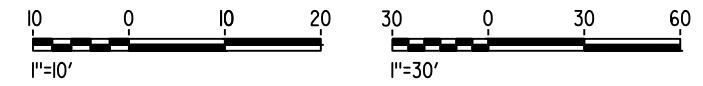
VEHICULAR TRAFFIC		FALSEWORK OPENING REQD (HORIZ x VERT)	
1. <u> </u> TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. <u> </u> TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION	14832+95	32'x16.5'	2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

CURVE MER-FRE 1 SB (A)
R = 10,300.00'
LS = 1,200.00'

CURVE MER-FRE 1 NB (B)
R = 10,300.00'
LS = 1,200.00'

- LEGEND:**
- ⊕ INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ➡ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (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-S1430-B.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0055-B AND TT-B0057-B.



16-MAR-2016 6:21 MF-ST-K1430-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
A. M.

CHECKED BY
S. J. S.

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

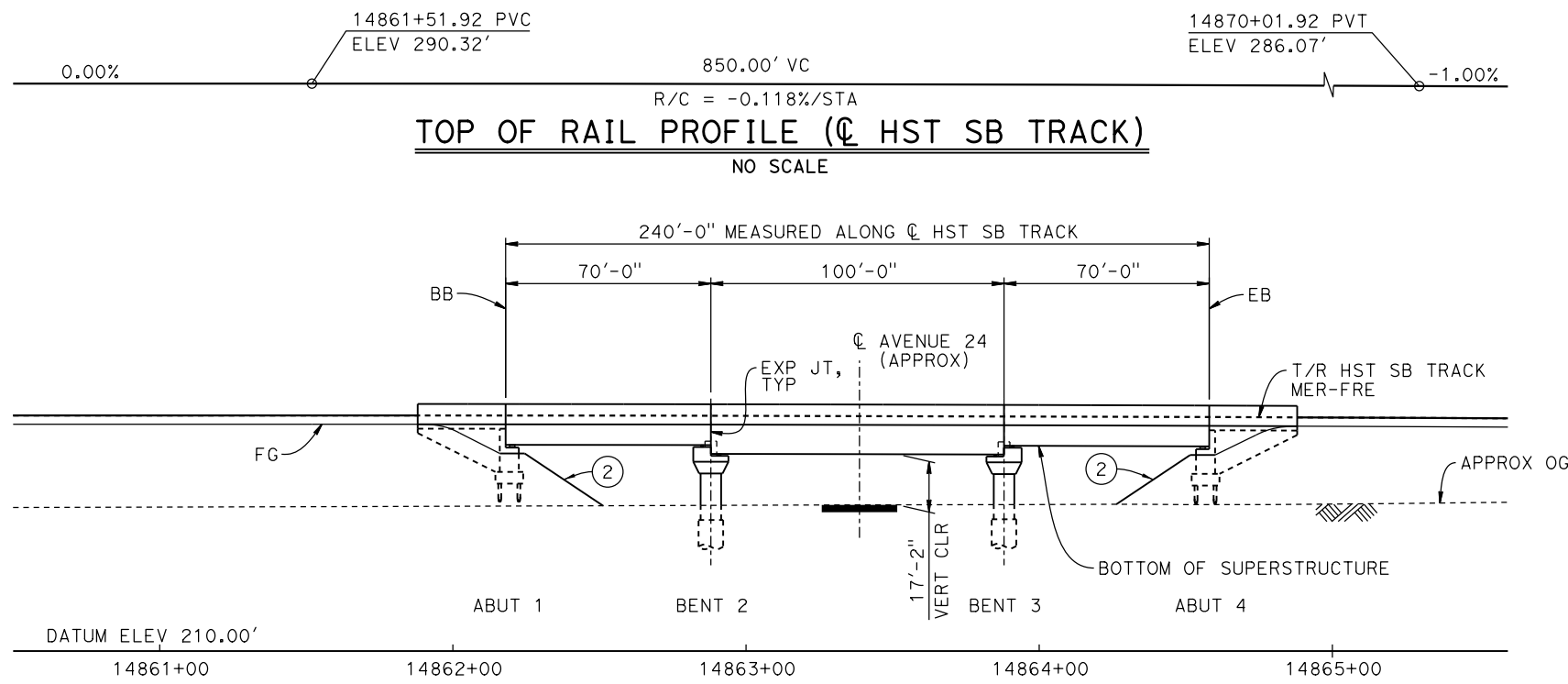
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
MADISON ROAD (AVENUE 23 1/2) UNDERPASS

CONTRACT NO.
HSR08-05

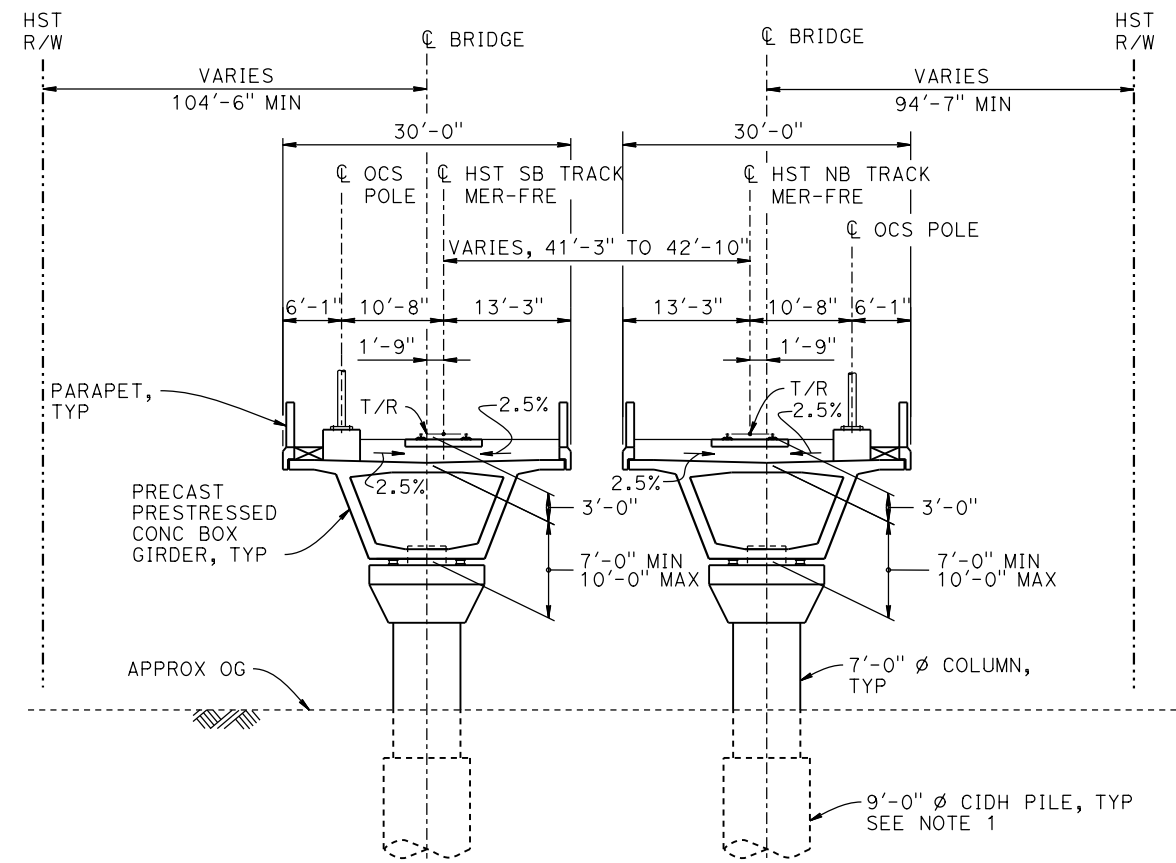
DRAWING NO.
ST-K1430-B

SCALE
AS SHOWN

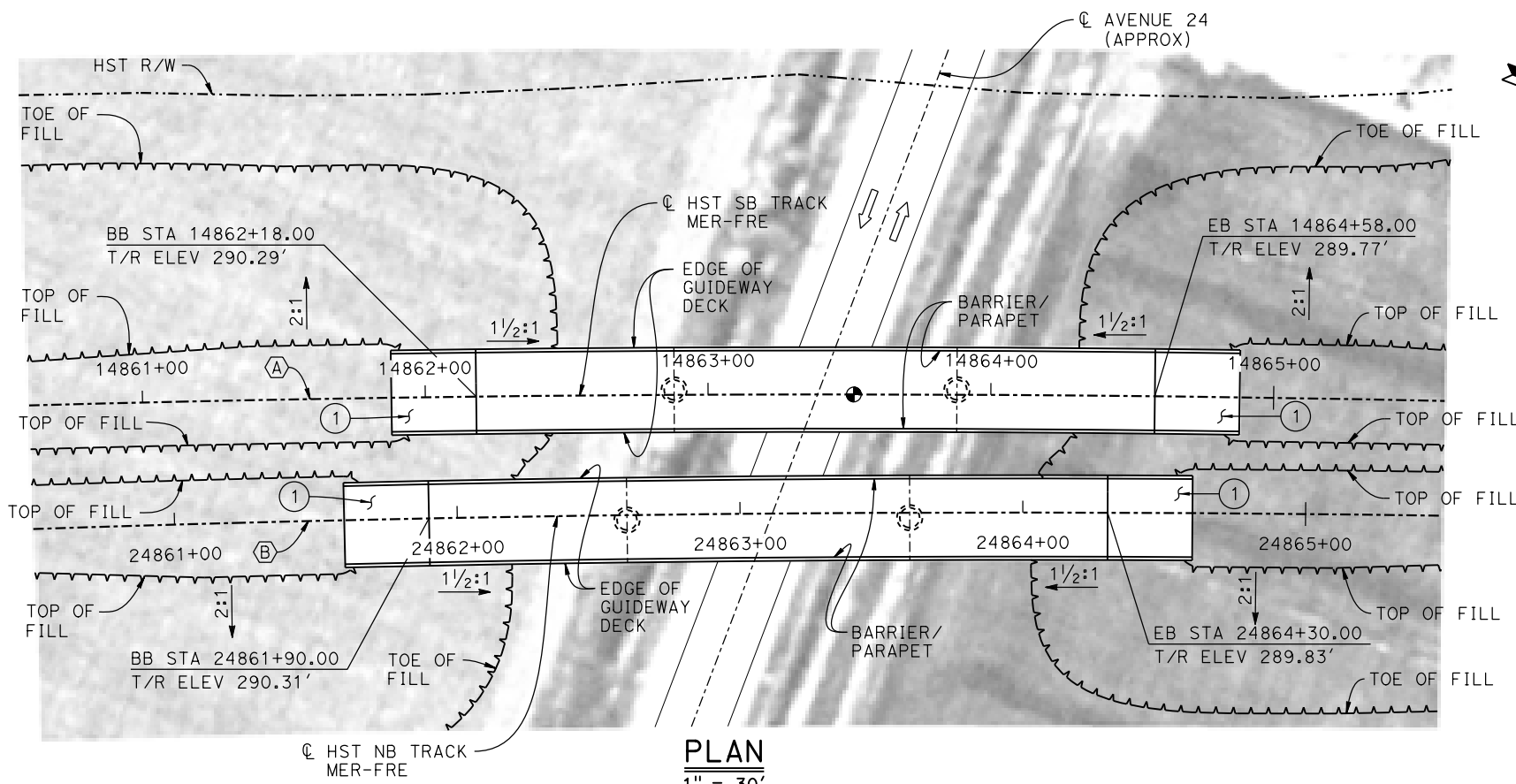
SHEET NO.



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



TYPICAL SECTION
1" = 10'



CURVE MER-FRE 1 SB (A)
R = 10,300.00'
LS = 1,200.00'

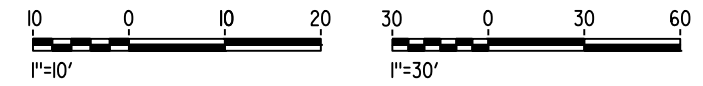
CURVE MER-FRE 1 NB (B)
R = 10,300.00'
LS = 1,200.00'

- 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		FALSEWORK OPENING REQD (HORIZ x VERT)	
1. — TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.			
2. X TRAFFIC WILL PASS UNDER THE STRUCTURE ON:			
ST OR ROAD NAME AND LOCATION			
AVENUE 24	14863+39	32'x16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

- NOTES:**
- 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 - FOR UTILITY DISPOSITIONS, CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1430-B.
 - FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0055-B AND TT-B0057-B.



07-FEB-2015 01:58 MF-ST-K1435-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. KIDWELL

CHECKED BY
S. J. S.

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

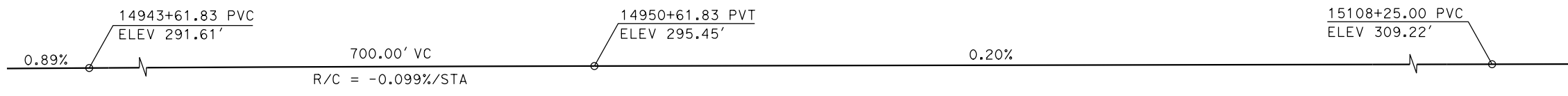
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
AVENUE 24 UNDERPASS

CONTRACT NO.
HSR08-05

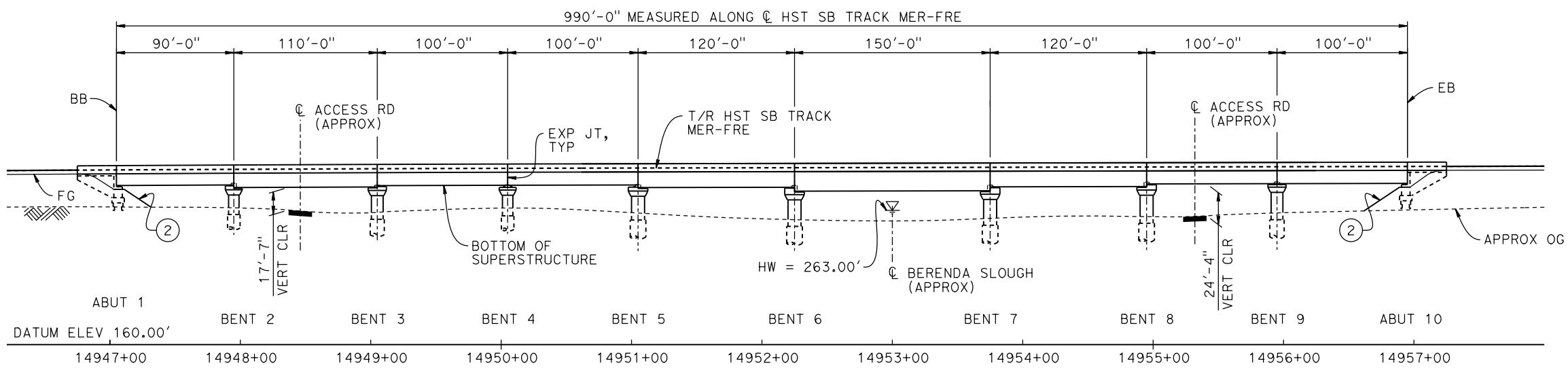
DRAWING NO.
ST-K1435-B

SCALE
AS SHOWN

SHEET NO.



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



ELEVATION
1" = 50'

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

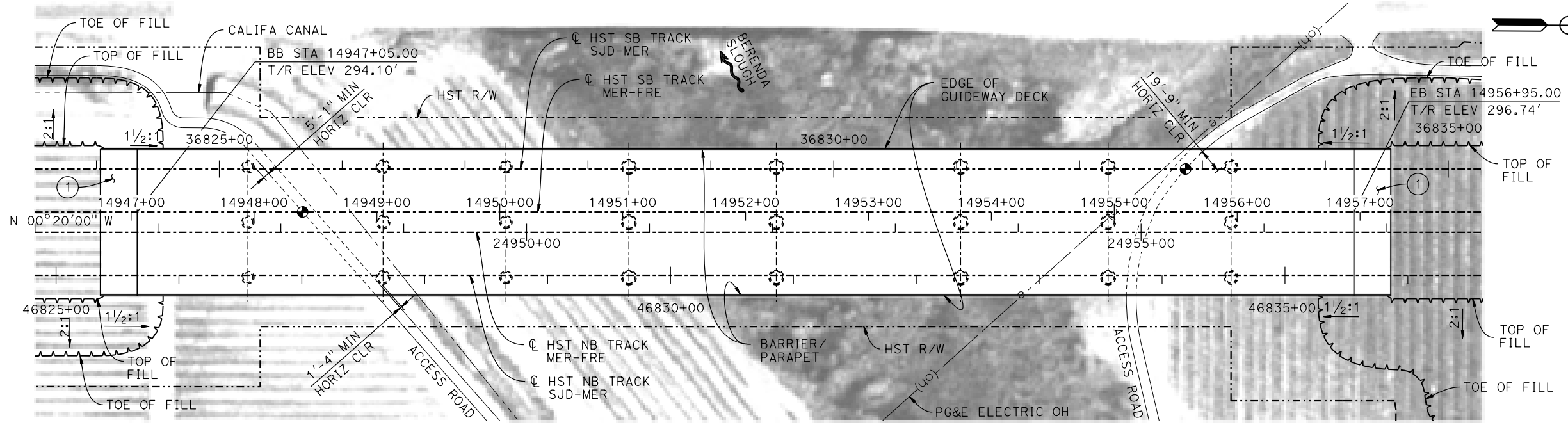
- TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
- TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ x VERT)
ACCESS ROAD 14948+46	20'x16.5' -
ACCESS ROAD 14955+29	20'x16.5' -

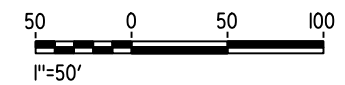
- TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.

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

- NOTES:**
- 16" ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
 - FOR TYPICAL SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3450-B.
 - ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
 - FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1450-B.



PLAN
1" = 50'



MF-ST-K1450-B.dgn 07-FEB-2015 10:07 P0036110

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
A. M.

CHECKED BY
S. J. S.

IN CHARGE
C. LEMLEY

DATE
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

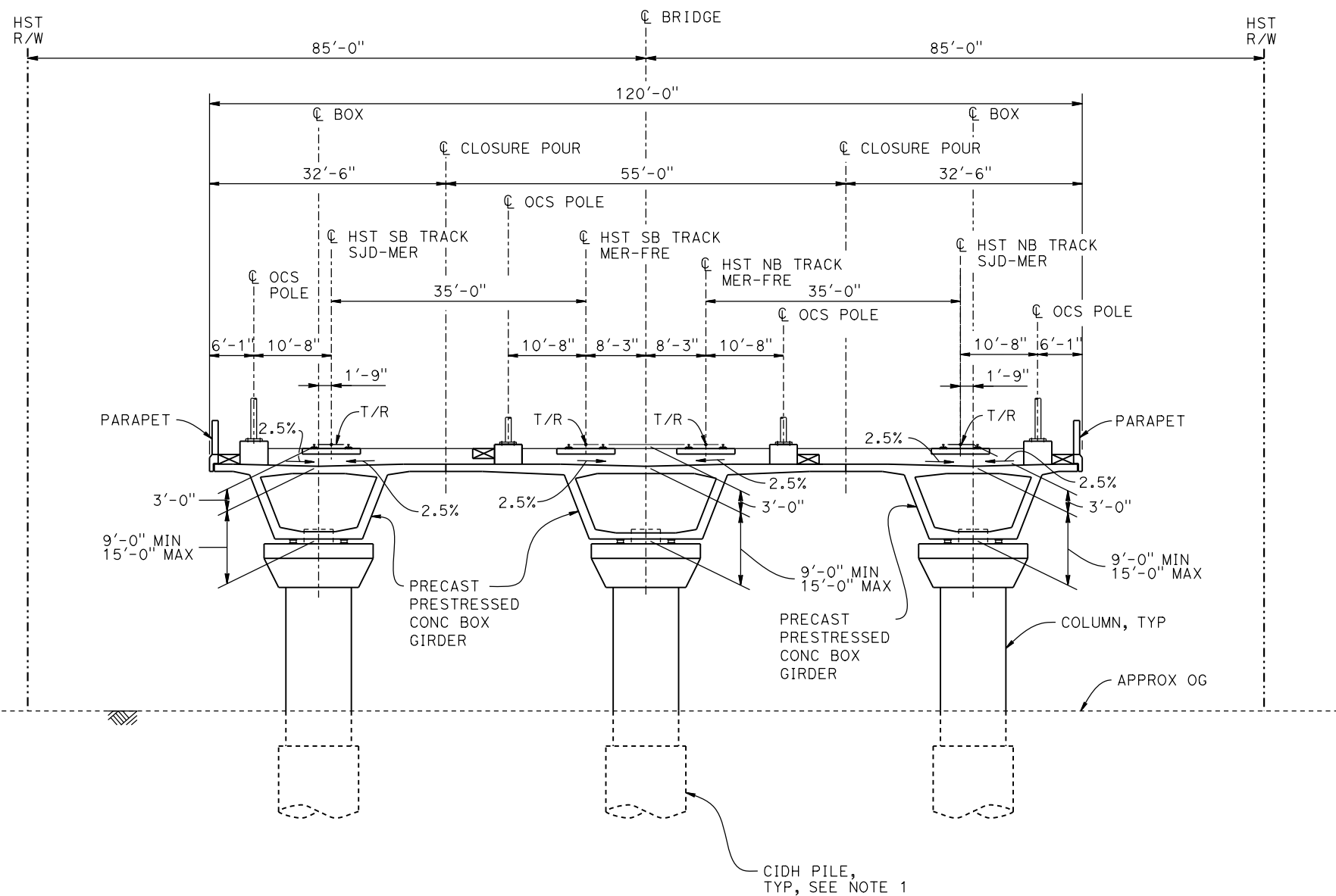
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
BERENDA SLOUGH BRIDGE - 1 OF 2

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



BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2	8'-0" ϕ	10'-0" ϕ
3	9'-0" ϕ	11'-0" ϕ
4	8'-0" ϕ	10'-0" ϕ
5 - 8	10'-0" ϕ	12'-0" ϕ
9	9'-0" ϕ	11'-0" ϕ

TYPICAL SECTION
1" = 10'

NOTE:
1. DRILLED SHAFT LENGTHS TO BE DETERMINED.



07-FEB-2015 10:07 MF-ST-K3450-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

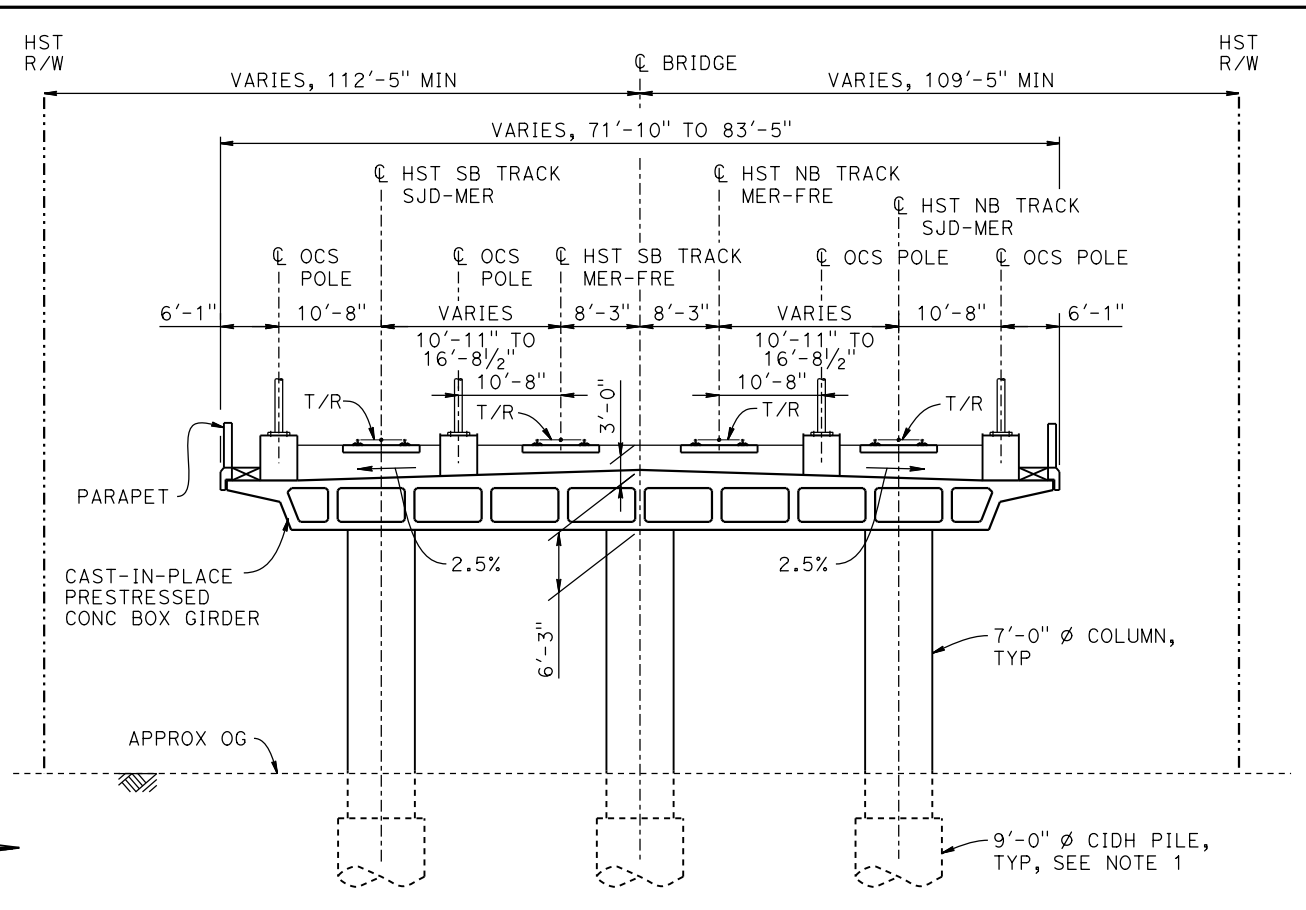
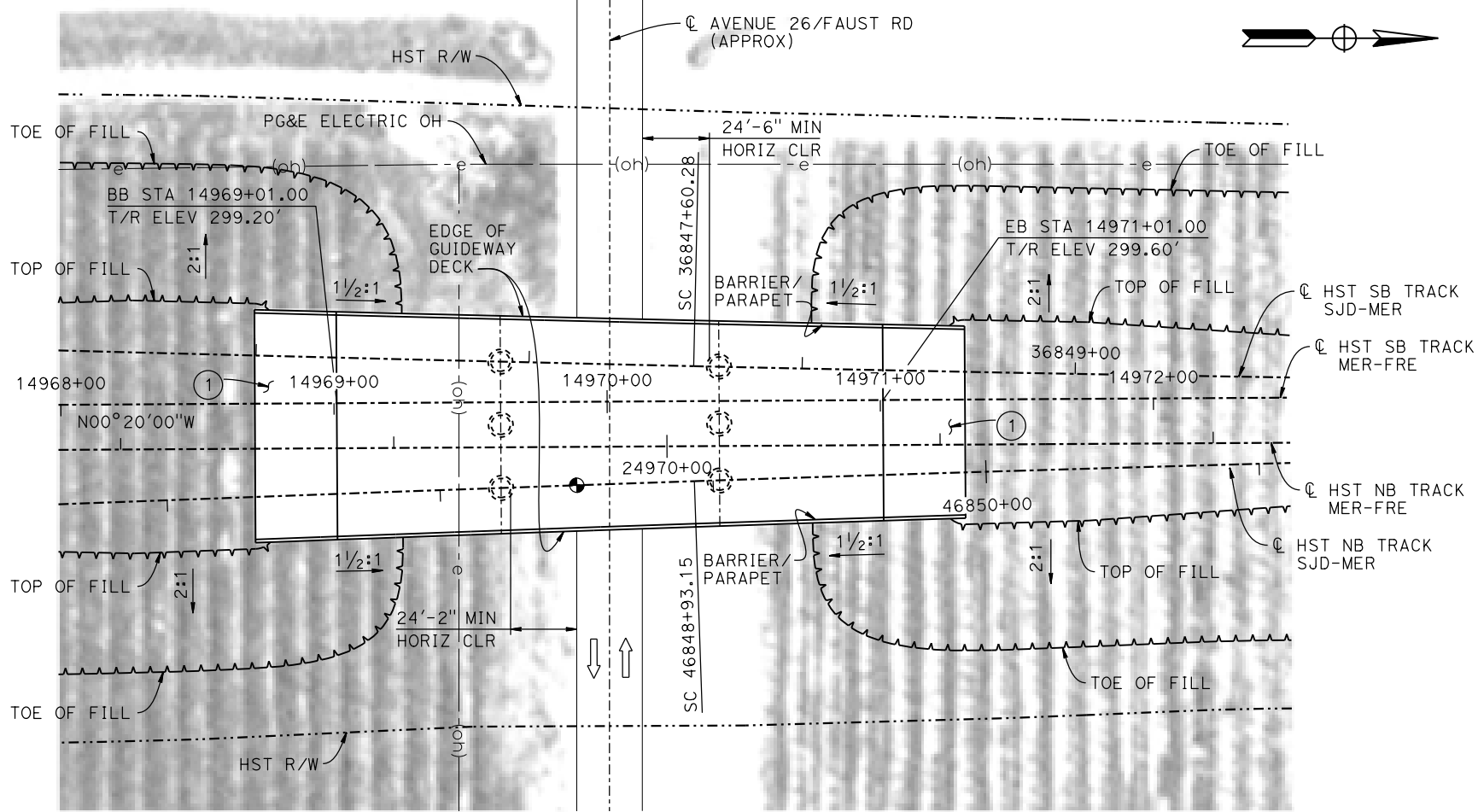
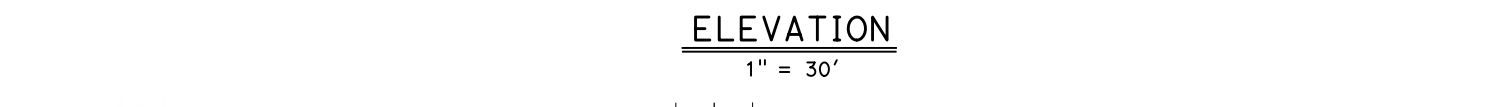
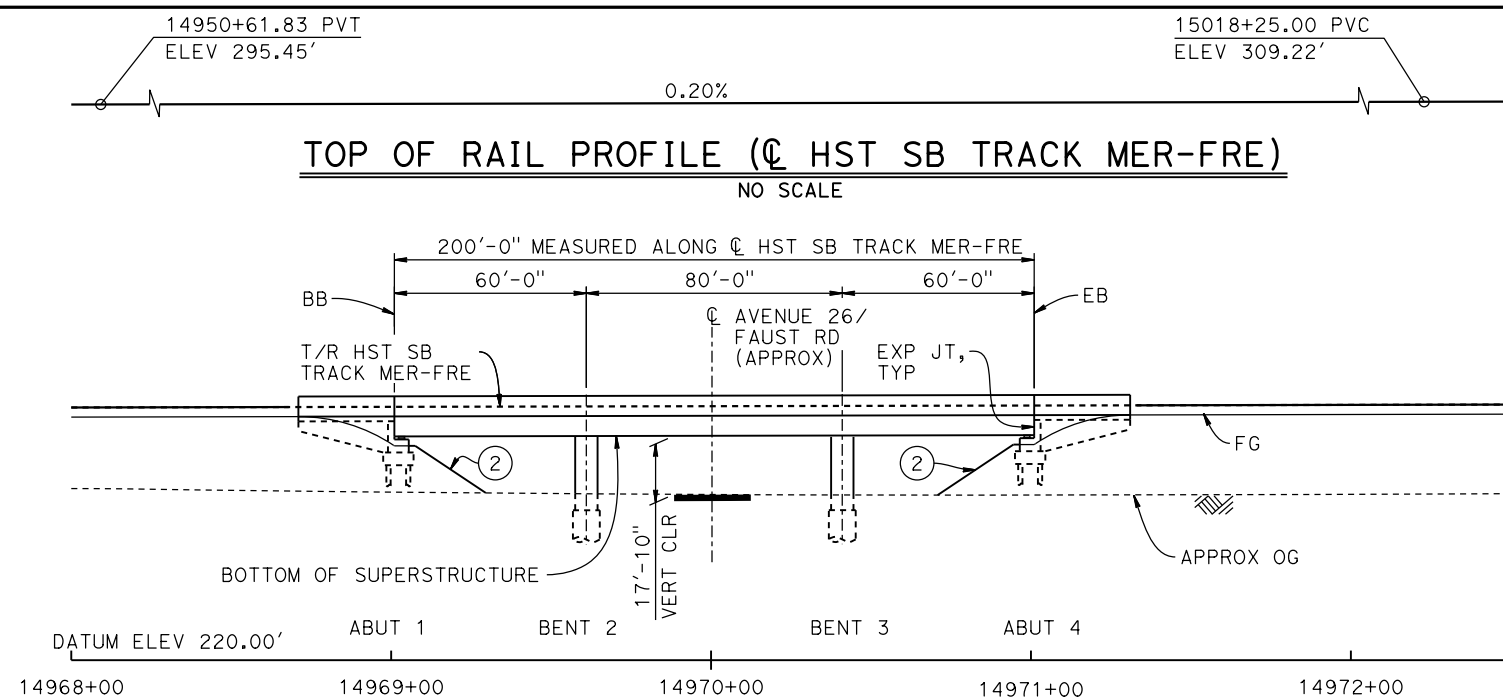
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
BERENDA SLOUGH BRIDGE - 2 OF 2

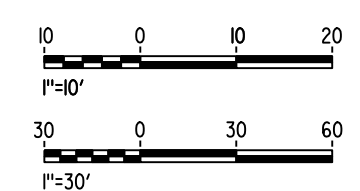
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K3450-B
SCALE
AS SHOWN
SHEET NO.



- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - ⇒ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1 1/2H:1V)
- 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-S1450-B.
 3. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0058-B.

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 26/FAUST ROAD 14970+01	32'x15.0' 2-WAY
3. <u> </u> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.	



07-FEB-2015 10:59 MF-ST-K1455-B.dgn

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

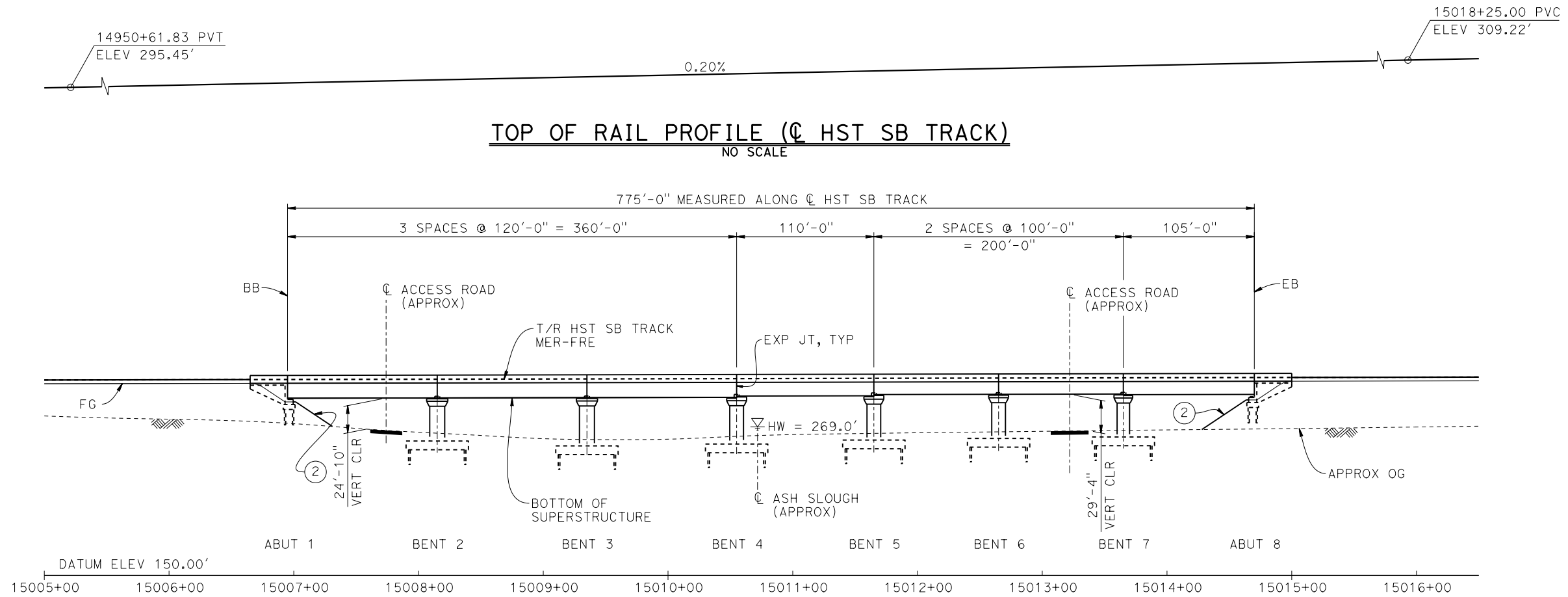
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
FAUST ROAD (AVENUE 26) UNDERPASS

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1455-B

SCALE
AS SHOWN

SHEET NO.

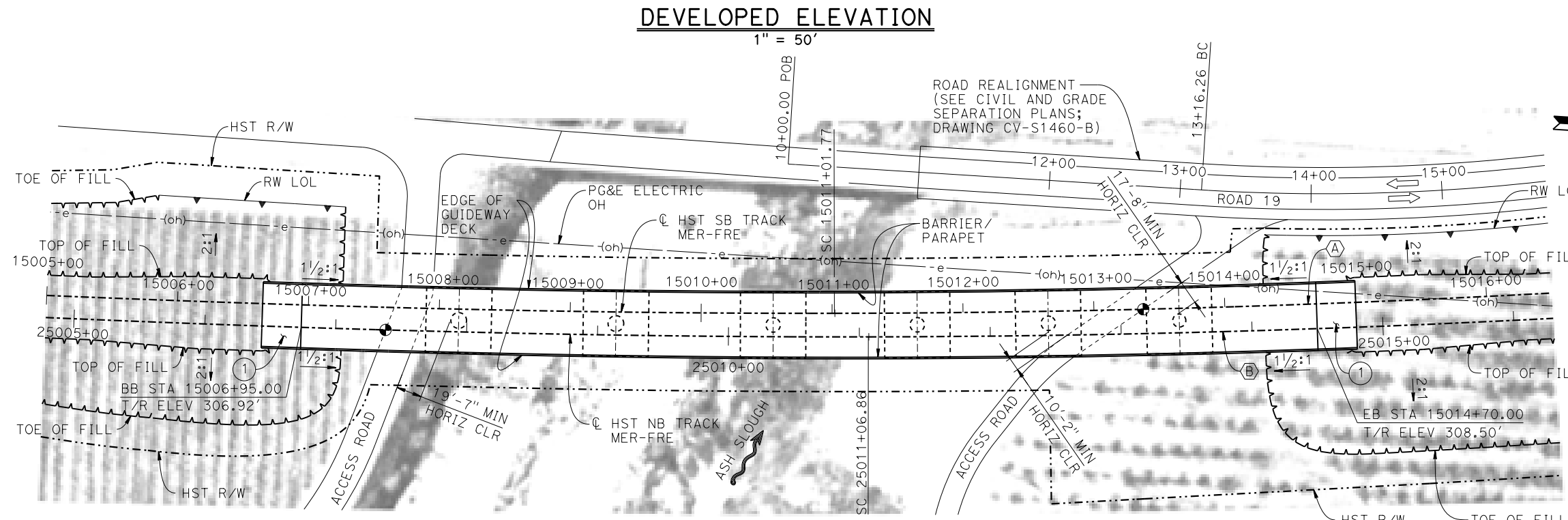


- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - INDICATES DIRECTION OF TRAFFIC
 - ~ INDICATES DIRECTION OF FLOW
 - ① STRUCTURE APPROACH
 - ② SLOPE PAVING (1 1/2 H:1 V)

- NOTES:**
1. 16"Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
 2. FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3460-B.
 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-S1460-B.
 5. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1460-B.

CURVE MER-FRE 2 SB (A)
 R = 10,300.00'
 LS = 1,200.00'

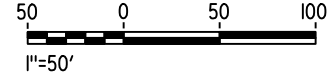
CURVE MER-FRE 2 NB (B)
 R = 10,300.00'
 LS = 1,200.00'



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)		
ACCESS ROAD 15007+78	20'X16.5'	-	
ACCESS ROAD 15013+22	20'X16.5'	-	
3. <input checked="" type="checkbox"/> TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

PLAN
1" = 50'



10-MAR-2016 7:18 MF-ST-K1460-B.dgn

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
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (MER-FRE)
 ASH SLOUGH BRIDGE - 1 OF 2

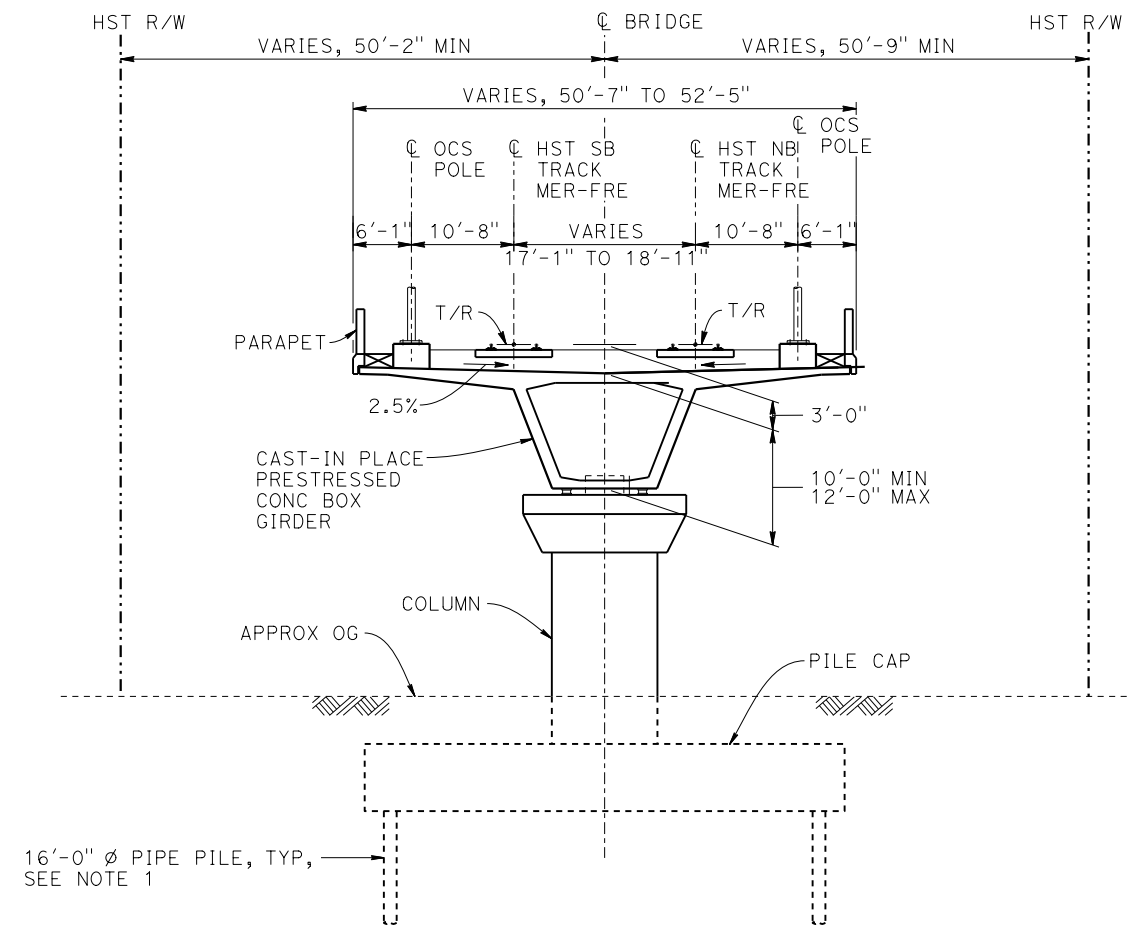
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1460-B

SCALE
AS SHOWN

SHEET NO.

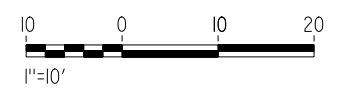
REV	DATE	BY	CHK	APP	DESCRIPTION



TYPICAL SECTION
1" = 10'

BENT COLUMN SCHEDULE	
BENT	COLUMN TYPE
2 - 3	12'-0" ϕ
4 - 6	11'-0" ϕ
7	10'-0" ϕ

- NOTES:**
1. PILE LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0055-B AND TT-B0057-B.



22-MAY-2015 01:49 MF-ST-K3460-B.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

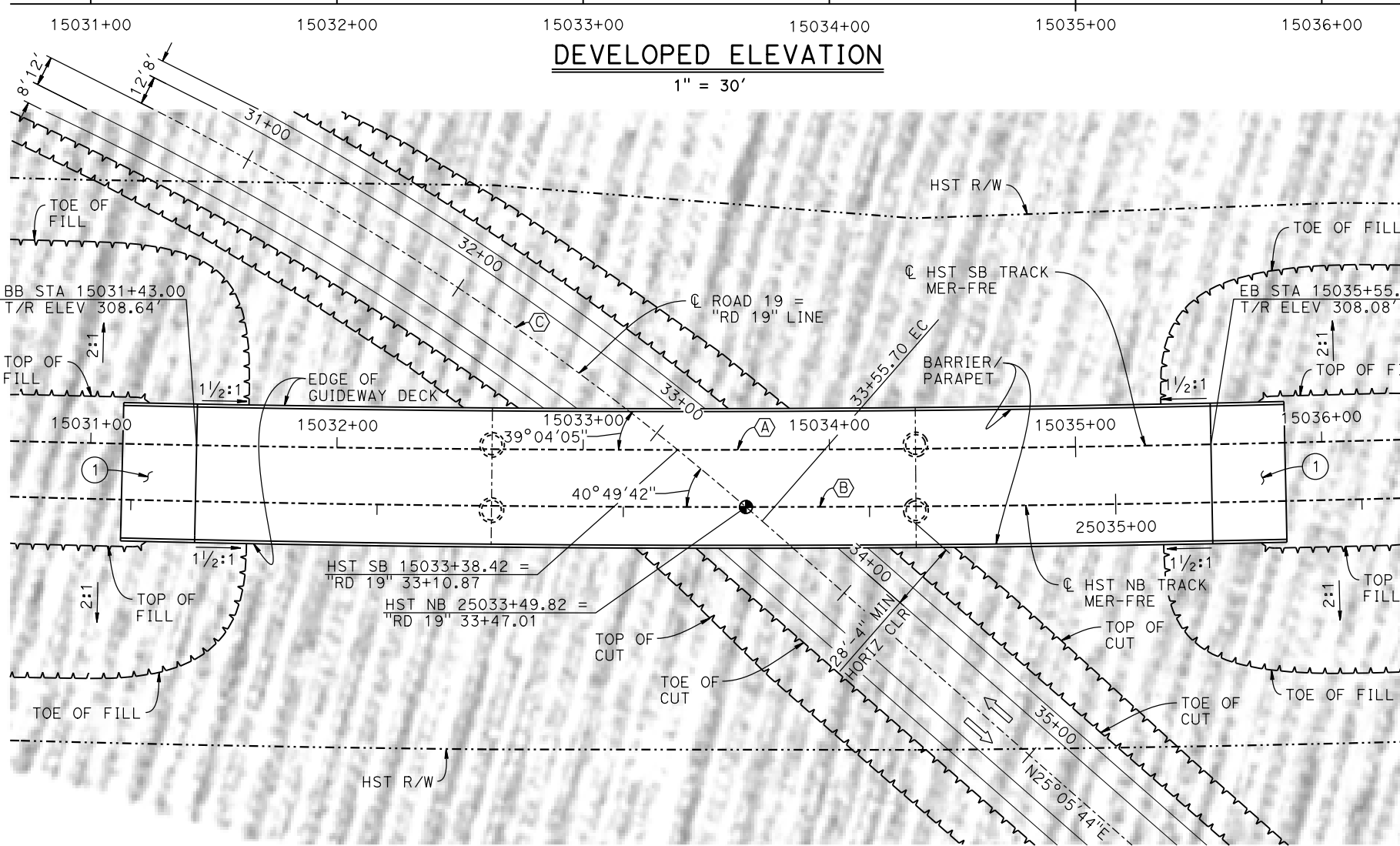
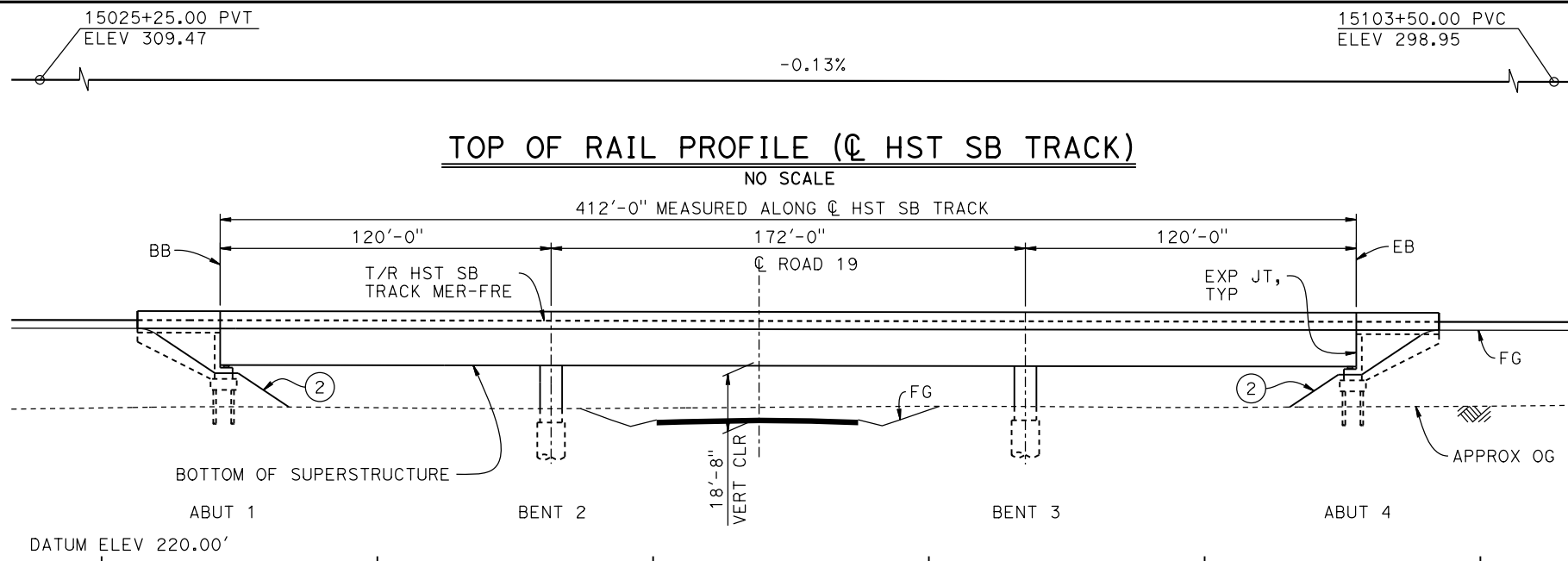
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
ASH SLOUGH BRIDGE - 2 OF 2

CONTRACT NO.
HSR08-05

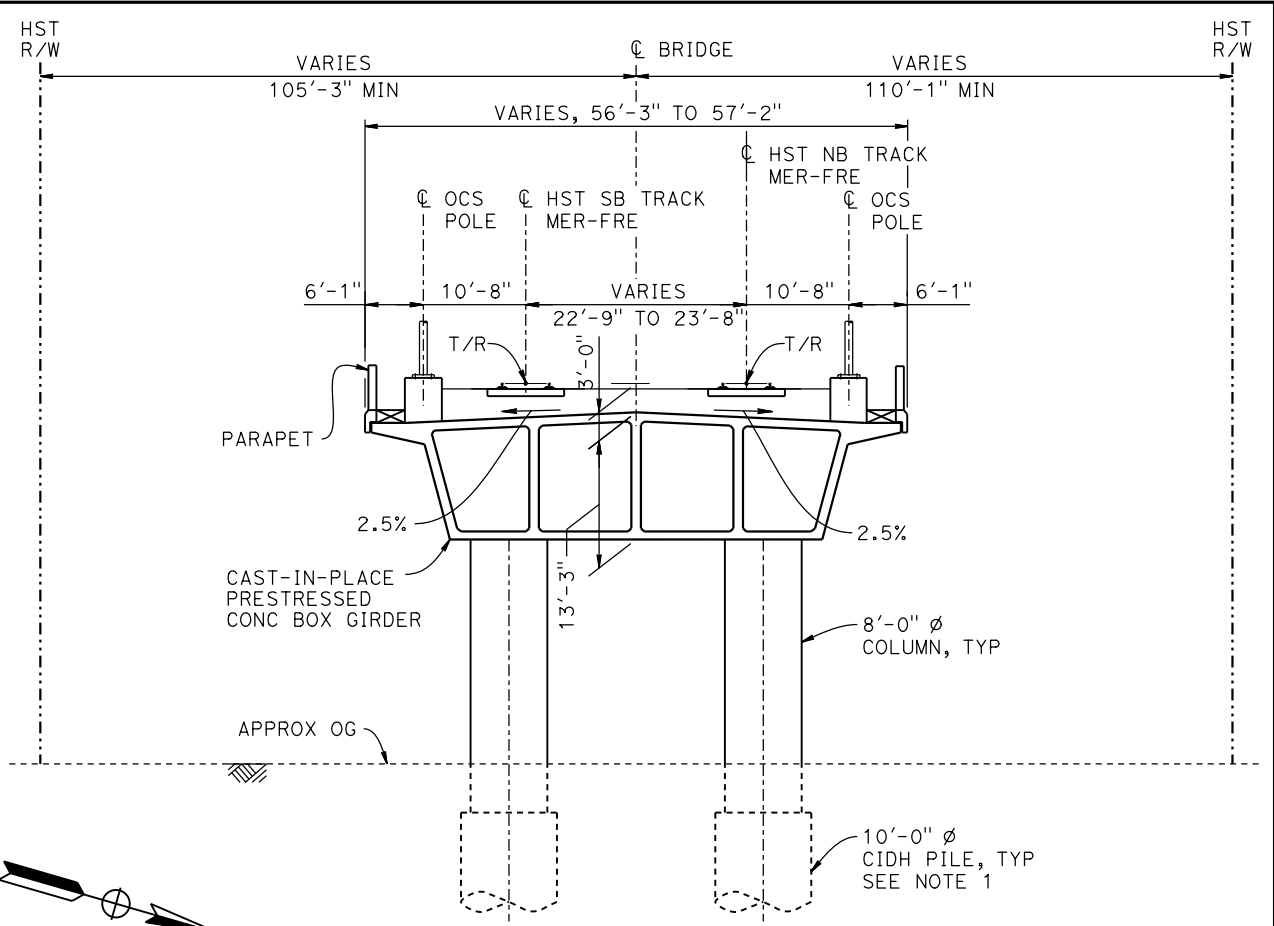
DRAWING NO.
ST-K3460-B

SCALE
AS SHOWN

SHEET NO.



PLAN
1" = 30'



TYPICAL SECTION
1" = 10'

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

R = 10,300.00' LS = 1,200.00'

R = 10,300.00' LS = 1,200.00'

CURVE NO. 460-02 (C)

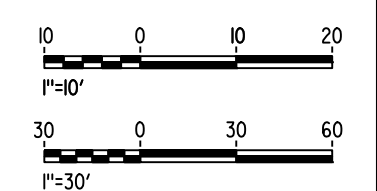
R = 1,200.00' Δ = 46°04'20" L = 964.94' T = 510.26'

- 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-S1460-B.
 3. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0055-B AND TT-B0057-B.

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC		FALSEWORK OPENING REQD (HORIZ X VERT)	
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	15033+38 32'x15.5' 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 (1½H:1V)



17-MAR-2011 09:38 MF-ST-K1465-B.dgn

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

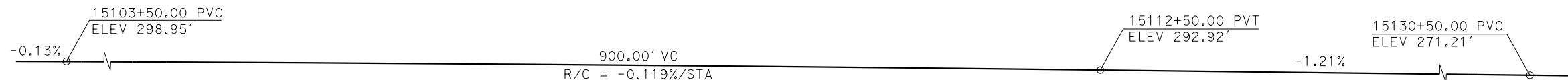
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
ROAD 19 UNDERPASS

CONTRACT NO.
HSR08-05

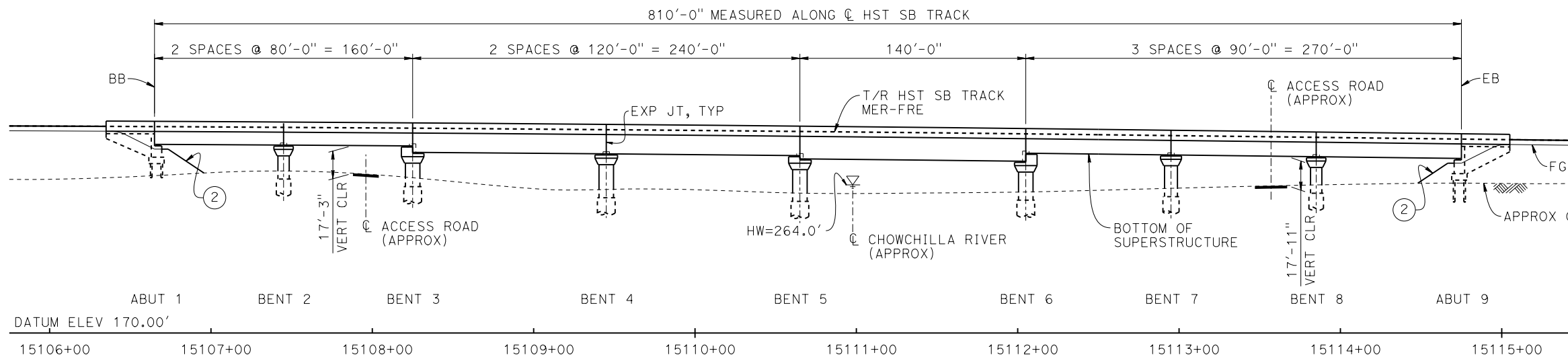
DRAWING NO.
ST-K1465-B

SCALE
AS SHOWN

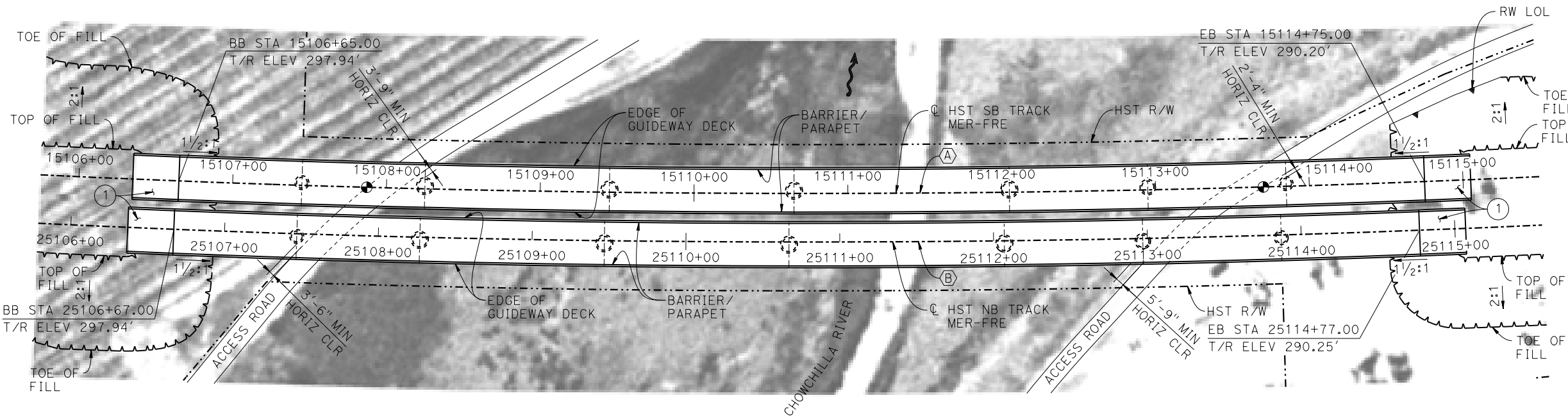
SHEET NO.



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



DEVELOPED ELEVATION
(SB BRIDGE SHOWN, NB BRIDGE SIMILAR)
1" = 40'



PLAN
1" = 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)	
ACCESS ROAD	15107+96	20'X16.5'	-
ACCESS ROAD	15113+57	20'X16.5'	-
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

LEGEND:

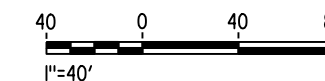
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② SLOPE PAVING (1 1/2H:1V)

NOTES:

1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT FOUNDATIONS. PILE LENGTHS TO BE DETERMINED.
2. FOR TYPICAL SECTION, SEE DRAWING ST-K3480-B.
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-S1470-B AND CV-S1480-B.
5. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1470-B AND CV-S1480-B.

CURVE MER-FRE 2 SB (A)
R = 10,300.00'
LS = 1,200.00'

CURVE MER-FRE 2 NB (B)
R = 10,300.00'
LS = 1,200.00'



MF-ST-K1480-B.dgn 09-FEB-2015 09:29 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
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

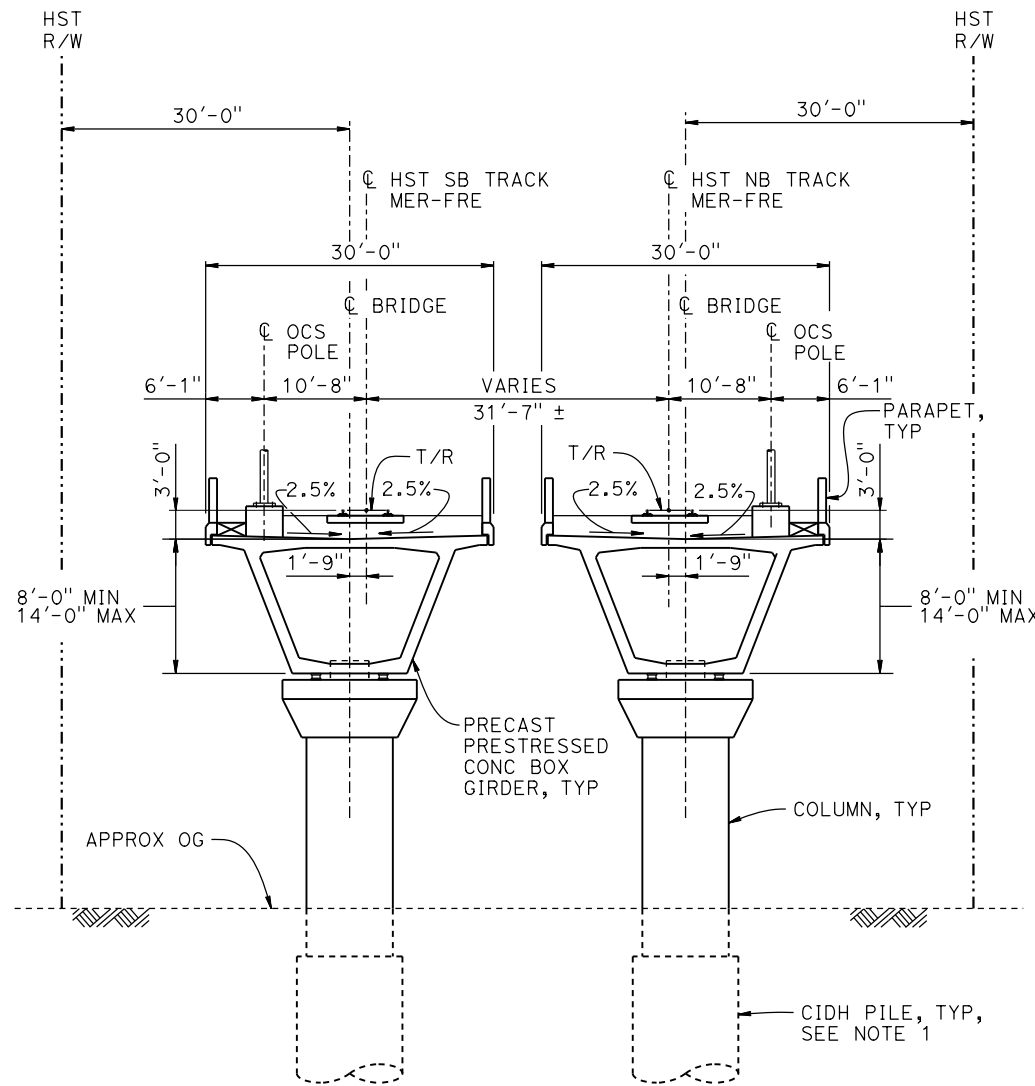
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CHOWCHILLA RIVER BRIDGE - 1 OF 2

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

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2	7'-0" ϕ	9'-0" ϕ
3 - 6	9'-0" ϕ	11'-0" ϕ
7	8'-0" ϕ	10'-0" ϕ
8	7'-0" ϕ	9'-0" ϕ



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-B0055-B AND TT-B0057-B.



07-FEB-2015 10:12 MF-ST-K3480-B.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
02/13/2015

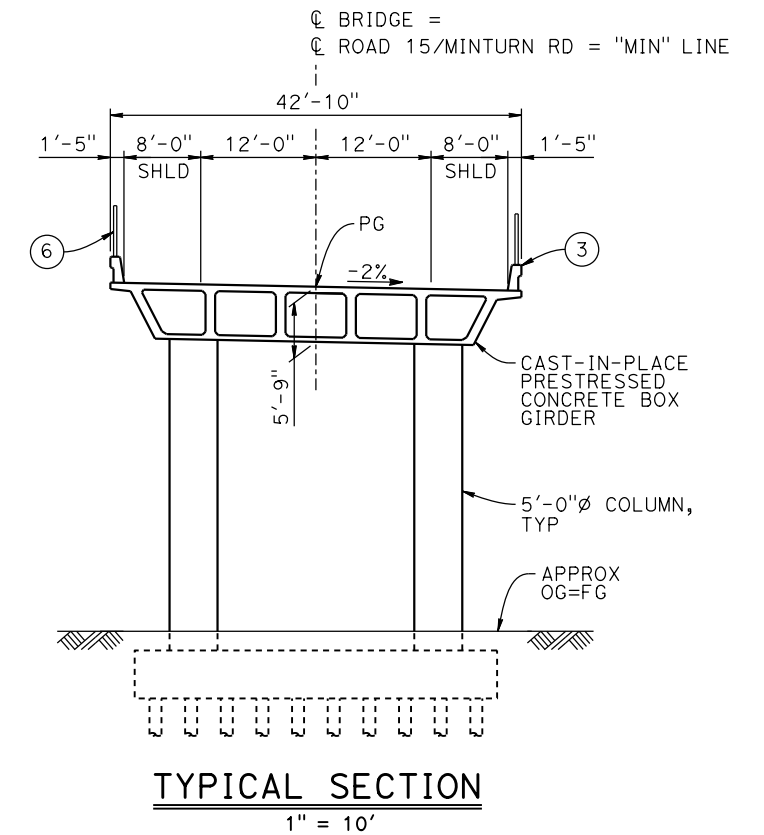
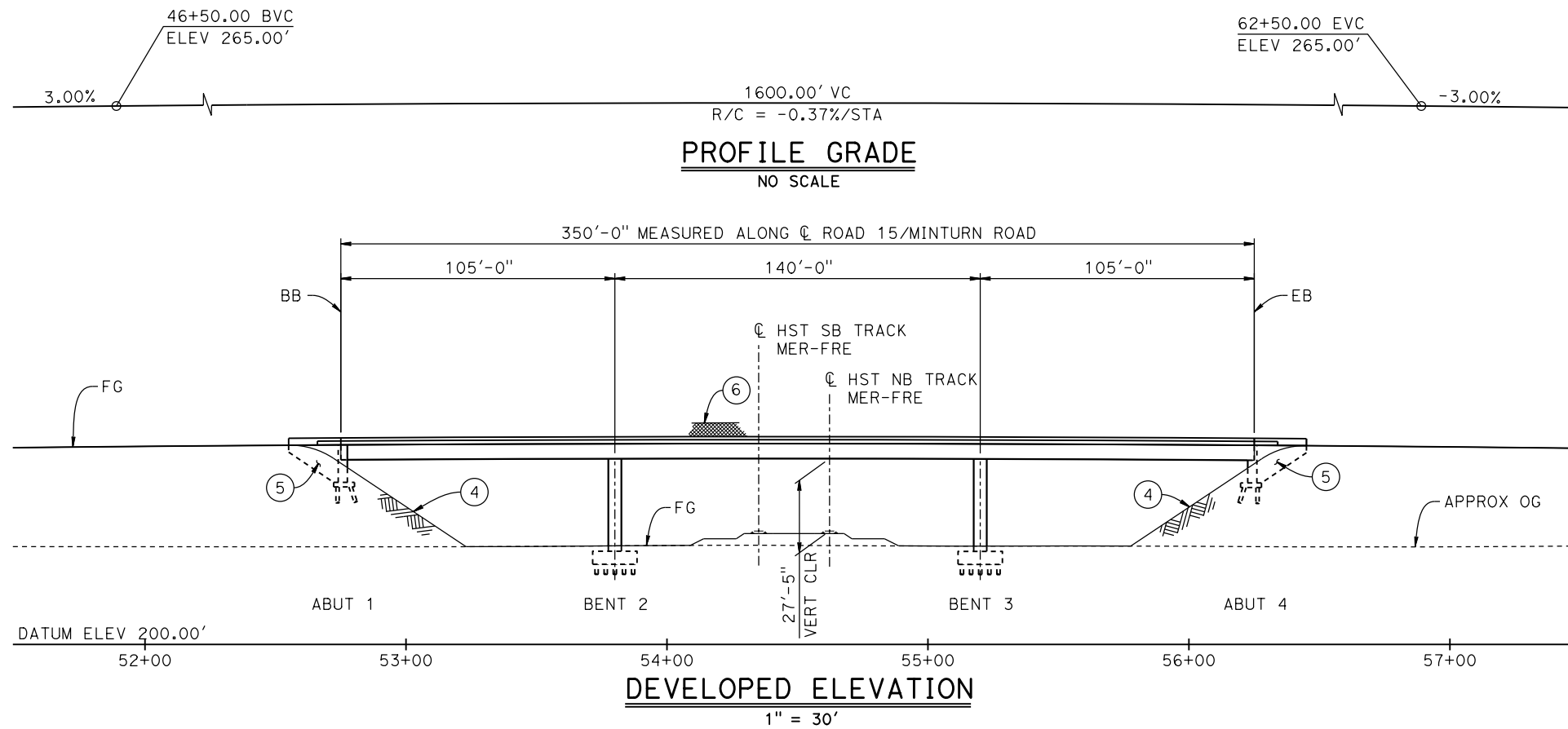
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

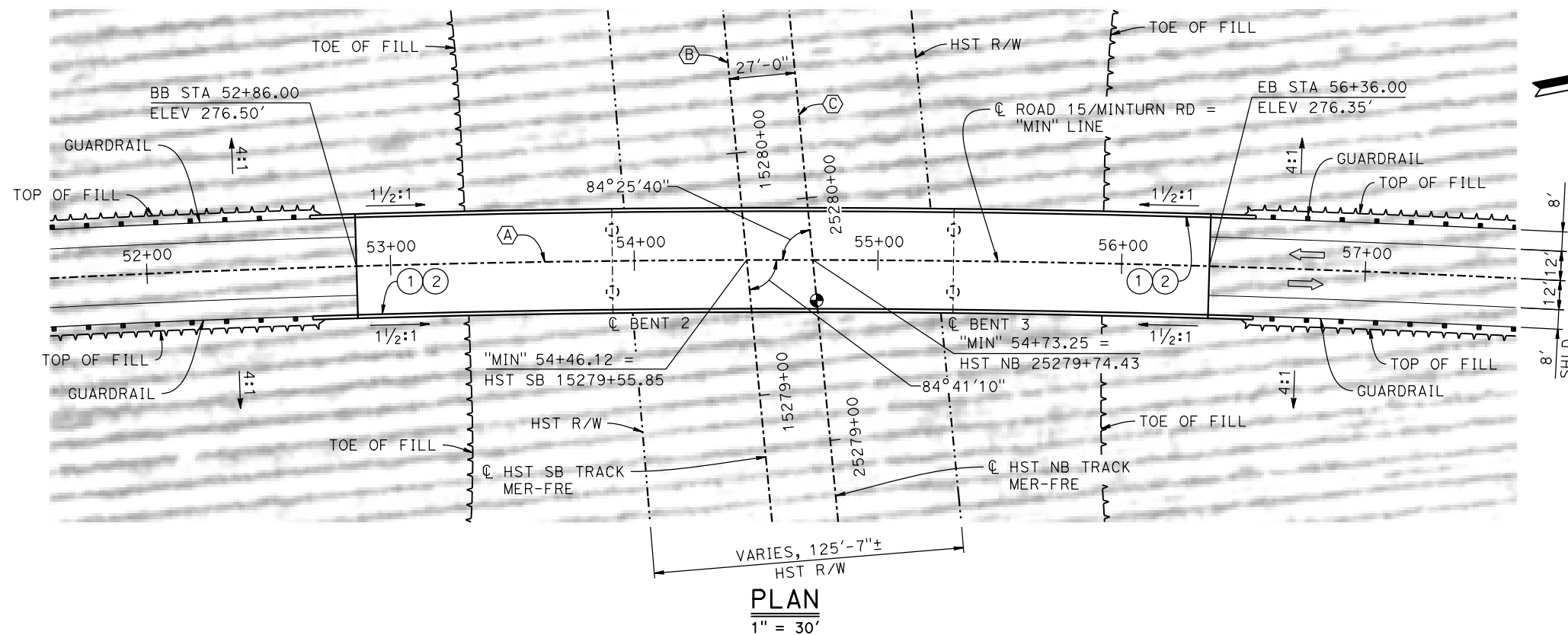


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
CHOWCHILLA RIVER BRIDGE - 2 OF 2

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K3480-B
SCALE
AS SHOWN
SHEET NO.

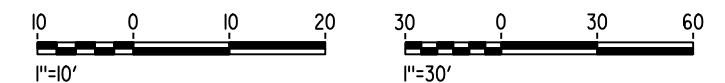


CURVE NO. 510-02 (A)	CURVE MER-FRE 3 SB (B)	CURVE MER-FRE 3 NB (C)
R = 6,000.00'	R = 22,177.00'	R = 22,150.00'
Δ = 21°04'15"	LS = 1,720.00'	LS = 1,720.00'
L = 2,206.52'		
T = 1,115.67'		



- LEGEND:**
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 - INDICATES DIRECTION OF TRAFFIC
 - ① PAINT "MINTURN 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

- NOTE:**
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-S1510-B.
 3. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1510-B.



07-FEB-2015 11:04 MF-ST-K1510-B.dgn

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

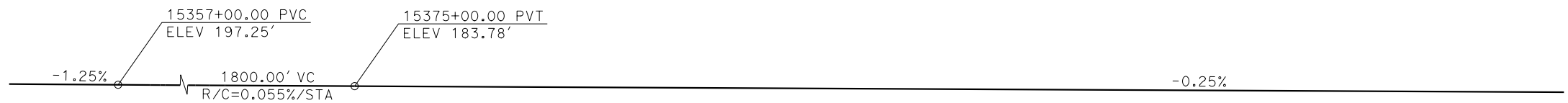
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
MINTURN ROAD (ROAD 15) OVERHEAD

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1510-B

SCALE
AS SHOWN

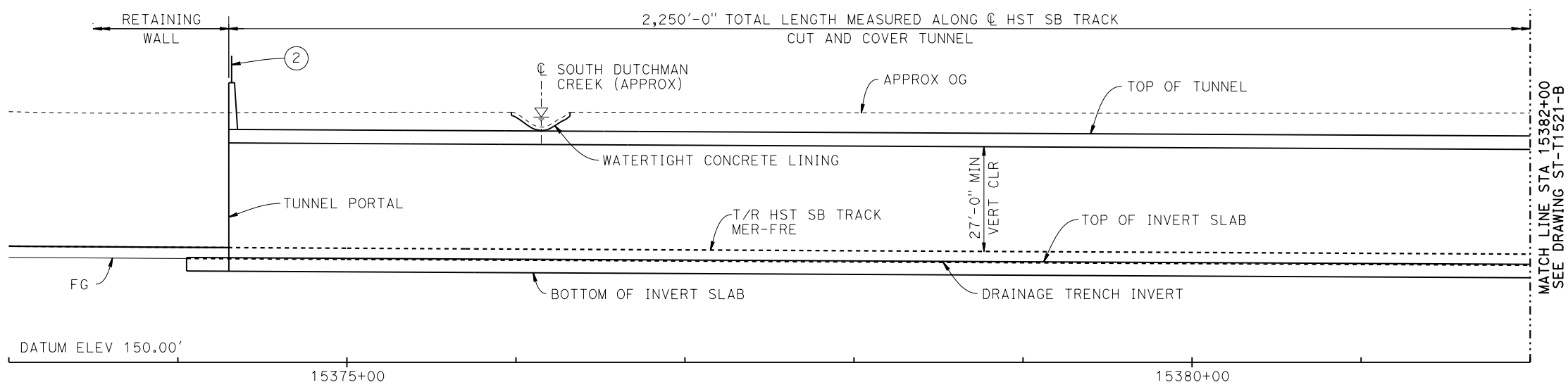
SHEET NO.



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

CURVE MER-FRE 3 SB (A)
R = 22,177.00'
LS = 1,720.00'

CURVE MER-FRE 3 NB (B)
R = 22,150.00'
LS = 1,720.00'



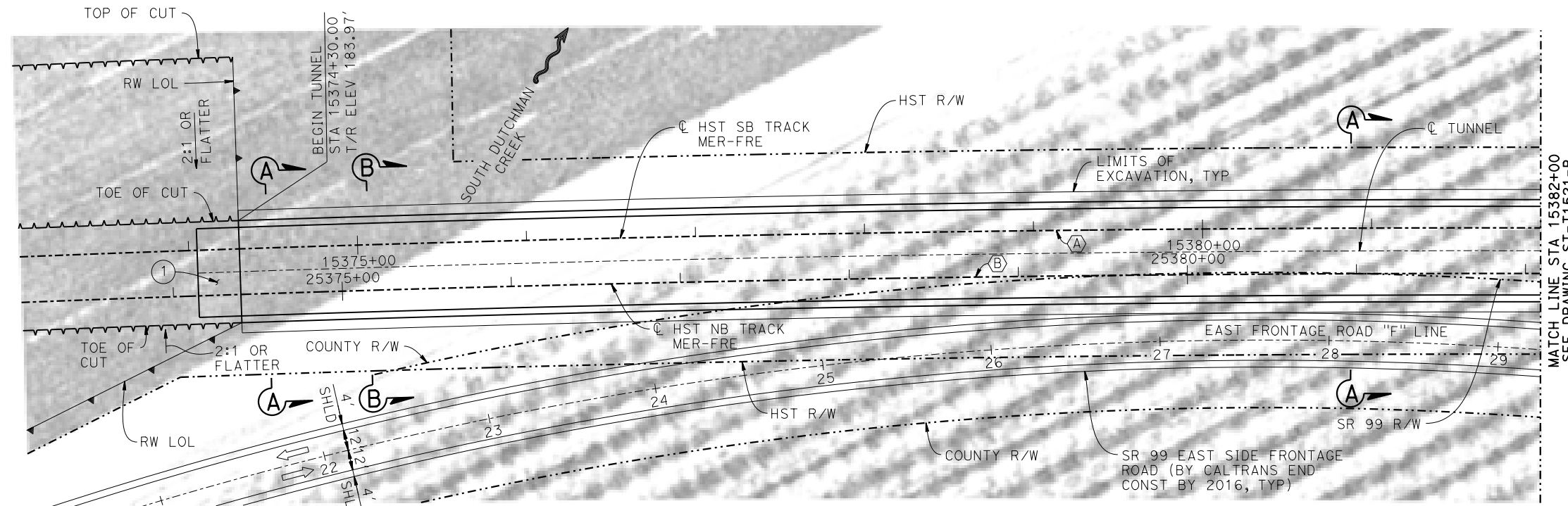
DEVELOPED LONGITUDINAL SECTION
VERT: 1" = 20' HORIZ: 1" = 40'

NOTES:

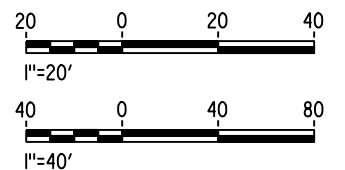
- FOR SECTIONS, SEE DRAWINGS ST-T3520-B AND ST-T3521-B.
- FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1520-B AND CV-S1530-B.
- FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1520-B AND CV-S1530-B.
- FOR PORTAL FACILITIES, ACCESS AND EGRESS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1520-B, CV-S1530-B, AND CV-S1540-B.
- FOR VENTILATION STRUCTURES, SEE TPF, INTERLOCKING, AND RADIO SITE PLANS; DRAWING ME-S1540-B.

LEGEND:

- INDICATES DIRECTION OF TRAFFIC
- INDICATES DIRECTION OF FLOW
- (1) STRUCTURE APPROACH
- (2) AR FENCE WITH SOLID PLATE



PLAN
1" = 40'



10-MAR-2016 7:19 MF-ST-T1520-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



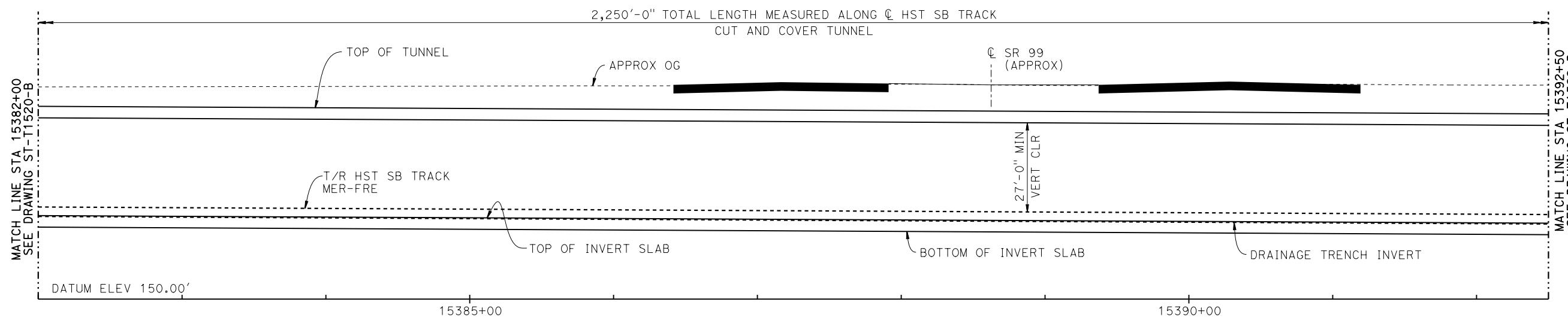
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CUT AND COVER TUNNEL AT SR 99 - 1 OF 5

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-T1520-B
SCALE
AS SHOWN
SHEET NO.

-0.25%

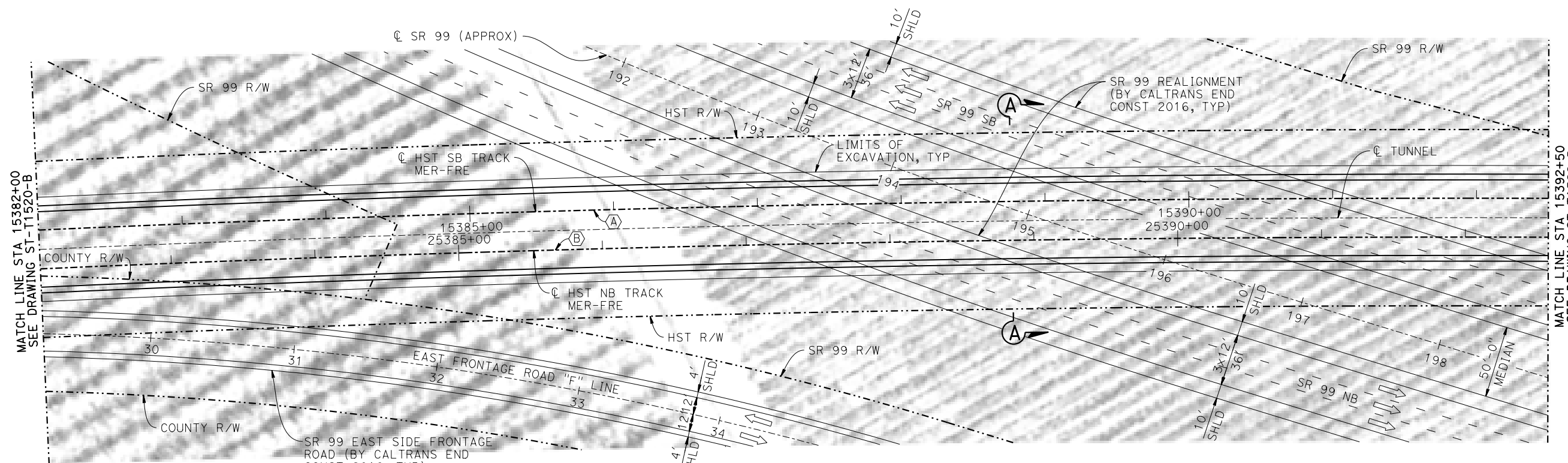
TOP OF RAIL PROFILE (C HST SB TRACK)

NO SCALE



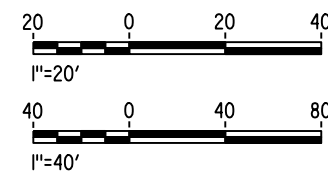
DEVELOPED LONGITUDINAL SECTION

VERT: 1"=20' HORIZ: 1"= 40'



PLAN

1" = 40'



10-MAR-2016 7:21 MF-ST-T1521-B.dgn

PO05133G

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. C.

CHECKED BY
S. J. S.

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CUT AND COVER TUNNEL AT SR 99 - 2 OF 5

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-T1521-B

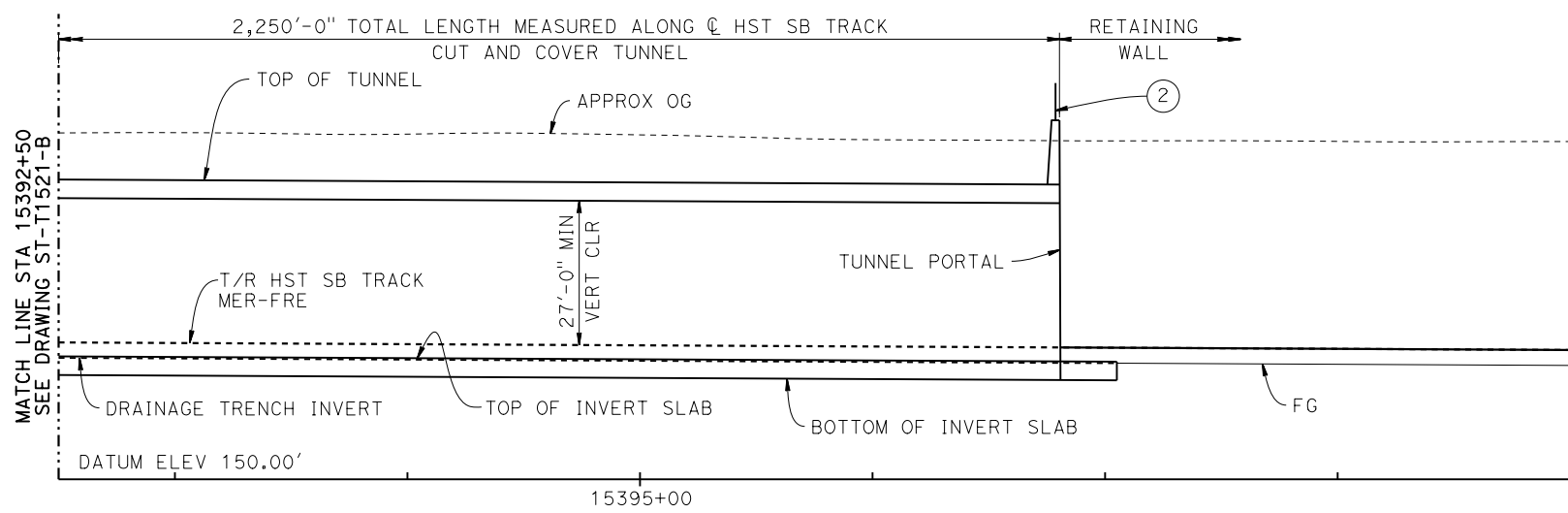
SCALE
AS SHOWN

SHEET NO.

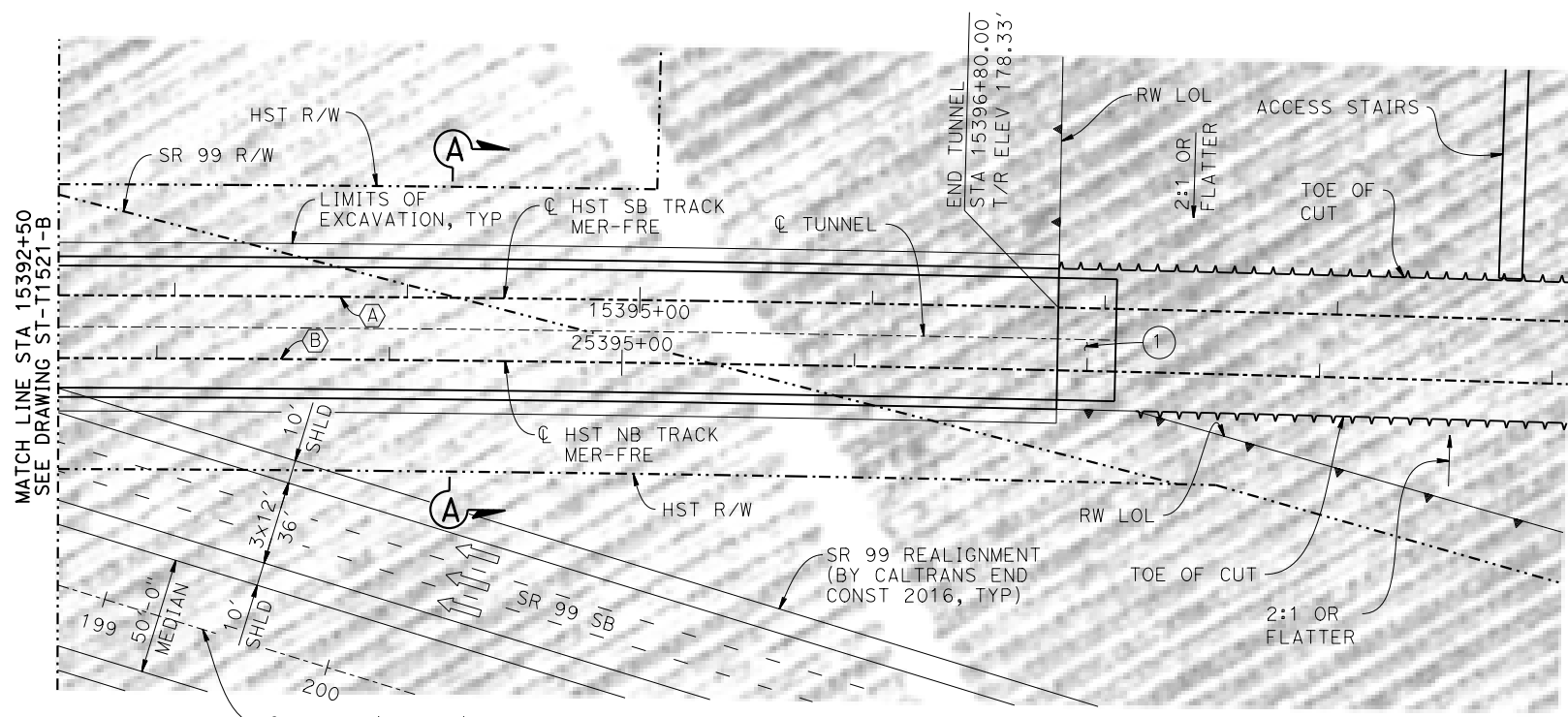
15424+11.44 PVC
ELEV 171.51'

-0.25%

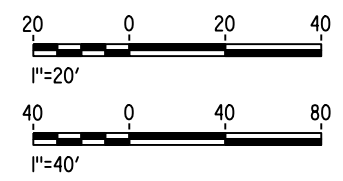
TOP OF RAIL PROFILE (C HST SB TRACK)
NO SCALE



DEVELOPED LONGITUDINAL SECTION
VERT: 1"=20' HORIZ: 1"= 40'



PLAN
1" = 40'



10-MAR-2016 7:22 MF-ST-T1522-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

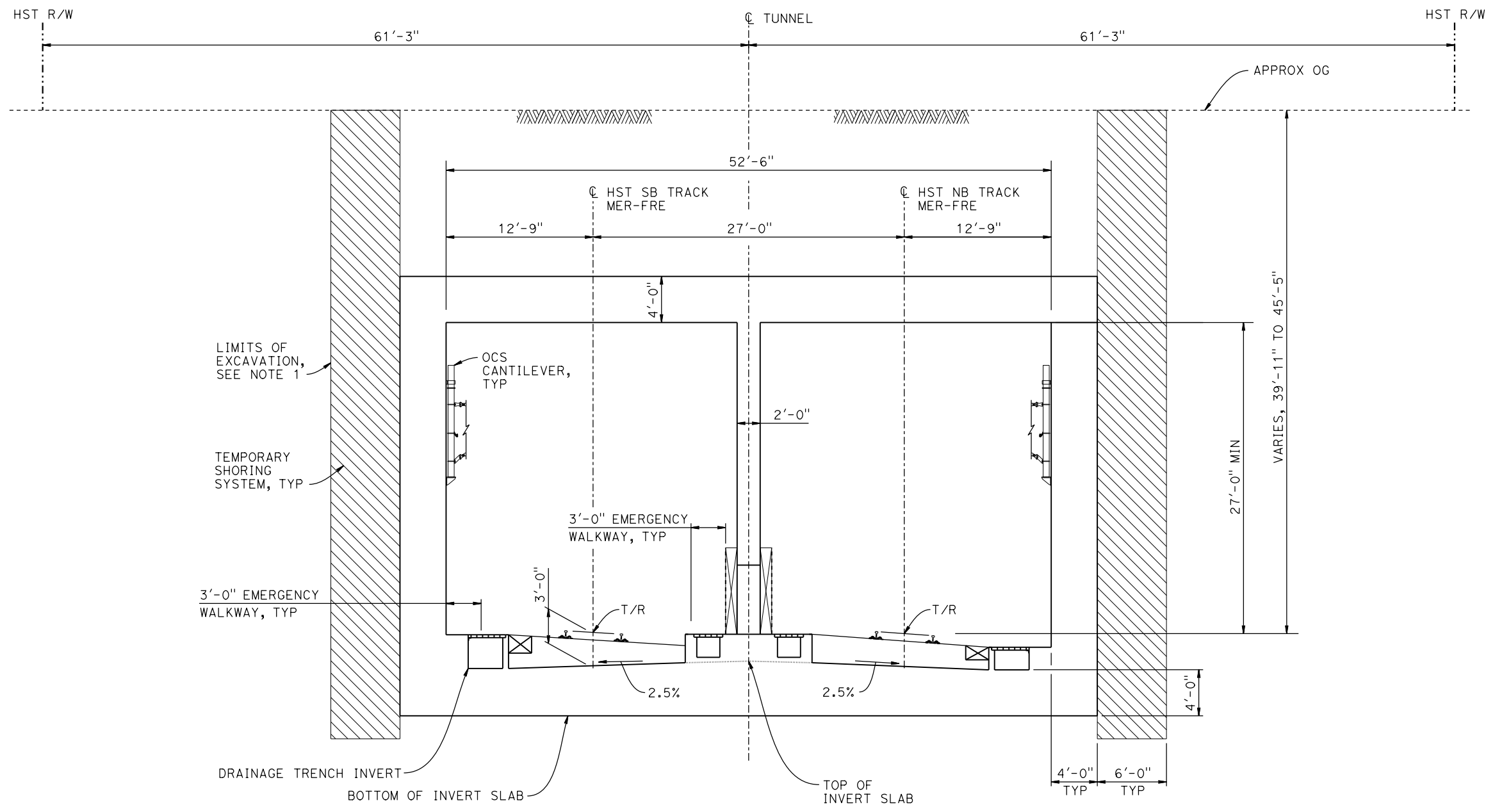
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CUT AND COVER TUNNEL AT SR 99 - 3 OF 5

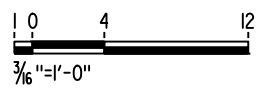
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-T1522-B
SCALE
AS SHOWN
SHEET NO.



SECTION A-A
 $\frac{3}{16}'' = 1'-0''$

NOTES:

- LIMITS OF EXCAVATION SHALL NOT EXTEND BEYOND HST R/W.
- TUNNEL FINAL LINING SHALL BE WATERTIGHT FOR PERMANENT CASE.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0055-B AND TT-B0057-B.



p0036110 07-FEB-2015 10:19 MF-ST-T3520-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR
 DRAWN BY
J. C.
 CHECKED BY
S. J. S.
 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
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 TYPICAL SECTION (MER-FRE)
 CUT AND COVER TUNNEL AT SR 99 - 4 OF 5

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

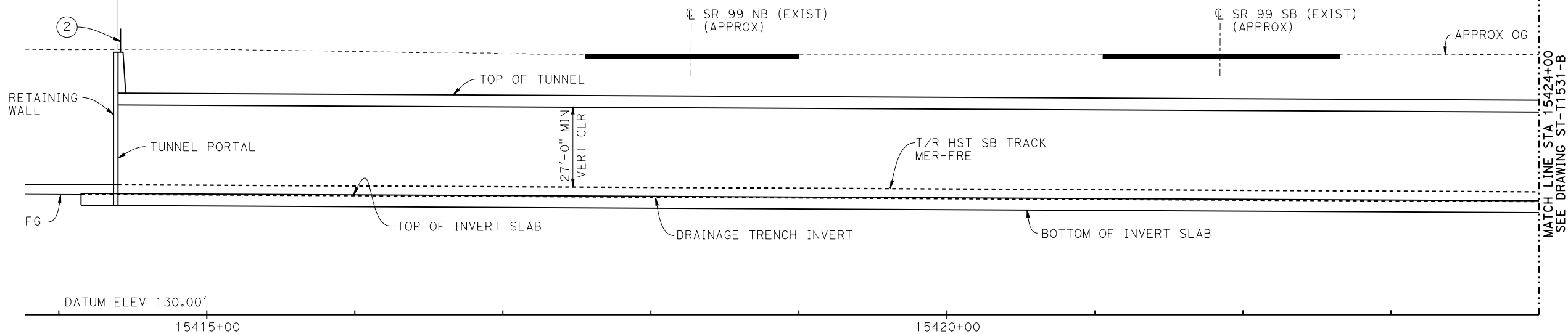
15375+00.00 PVT
ELEV 183.78'

-0.25%

TOP OF RAIL PROFILE (C HST SB TRACK)

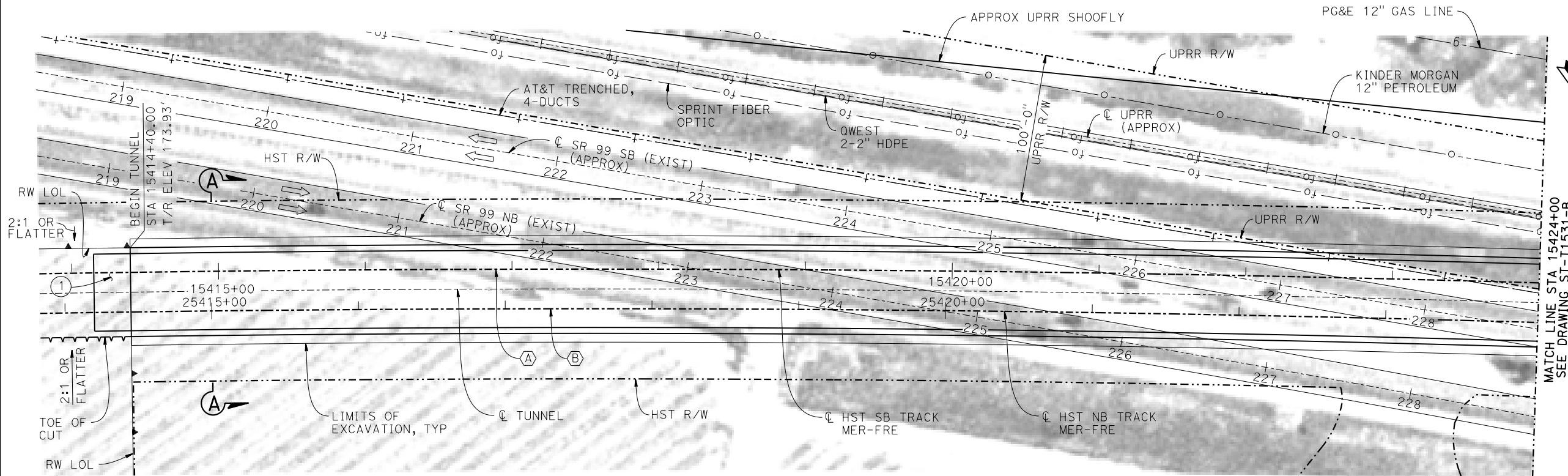
NO SCALE

2,910'-0" TOTAL LENGTH MEASURED ALONG C HST SB TRACK
CUT AND COVER TUNNEL



DEVELOPED LONGITUDINAL SECTION

VERT: 1"=20' HORIZ: 1"=40'



PLAN

1" = 40'

NOTES:

1. FOR SECTIONS, SEE DRAWINGS ST-T3530-B AND ST-T3531-B.
2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1530-B AND CV-S1540-B.
3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1530-B AND CV-S1540-B.
4. FOR PORTAL FACILITIES, ACCESS AND EGRESS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1530-B AND CV-S1540-B.
5. FOR VENTILATION STRUCTURES, SEE TPF, INTERLOCKING, AND RADIO SITE PLANS; DRAWING ME-S1540-B.

LEGEND:

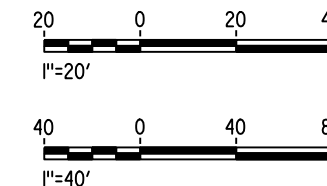
- INDICATES DIRECTION OF TRAFFIC
- ~ INDICATES DIRECTION OF FLOW
- ① STRUCTURE APPROACH
- ② AR FENCE WITH SOLID PLATE

CURVE MER-FRE 3 SB (A)

R = 22,177.00'
LS = 1,720.00'

CURVE MER-FRE 3 NB (B)

R = 22,150.00'
LS = 1,720.00'



10-MAR-2016 7:24 MF-ST-T1530-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. P.

CHECKED BY
S. J. S.

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

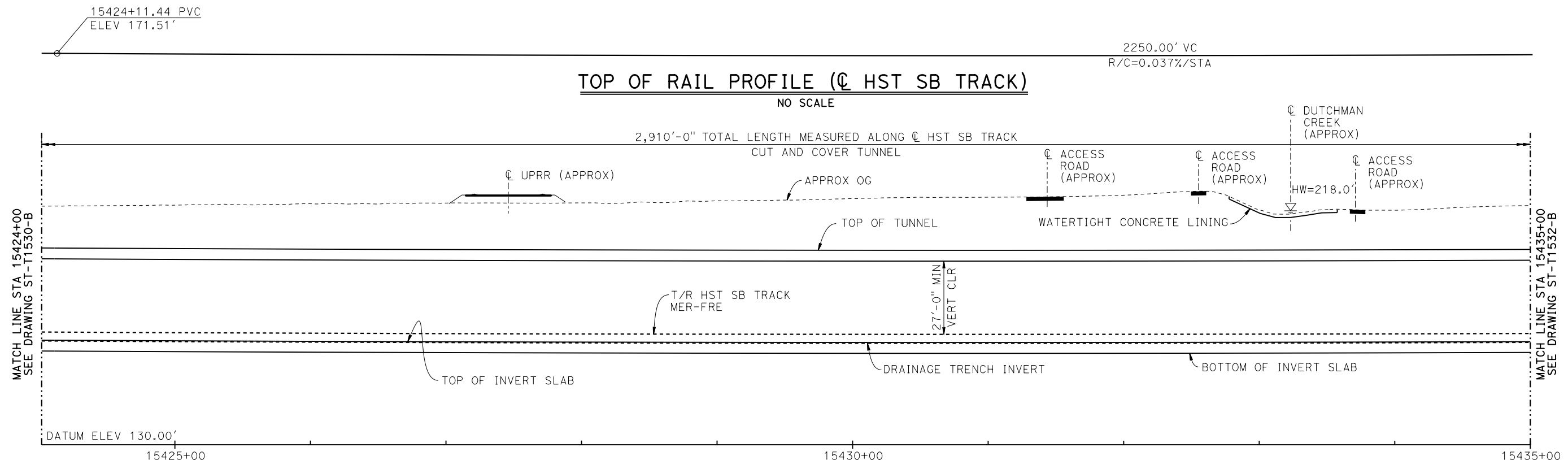
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CUT AND COVER TUNNEL AT UPRR - 1 OF 5

CONTRACT NO.
HSR08-05

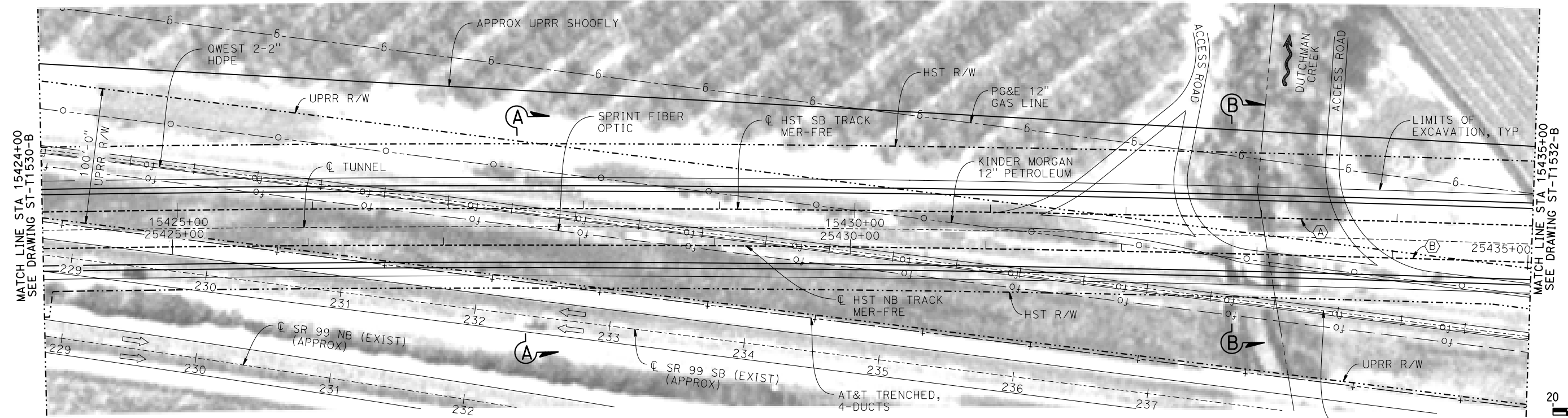
DRAWING NO.
ST-T1530-B

SCALE
AS SHOWN

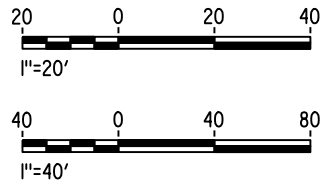
SHEET NO.



DEVELOPED LONGITUDINAL SECTION
 VERT: 1"=20' HORIZ: 1"=40'



PLAN
 1" = 40'



10-MAR-2016 7:25 MF-ST-T1531-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. P.

CHECKED BY
S. J. S.

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
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (MER-FRE)
 CUT AND COVER TUNNEL AT UPRR - 2 OF 5

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-T1531-B

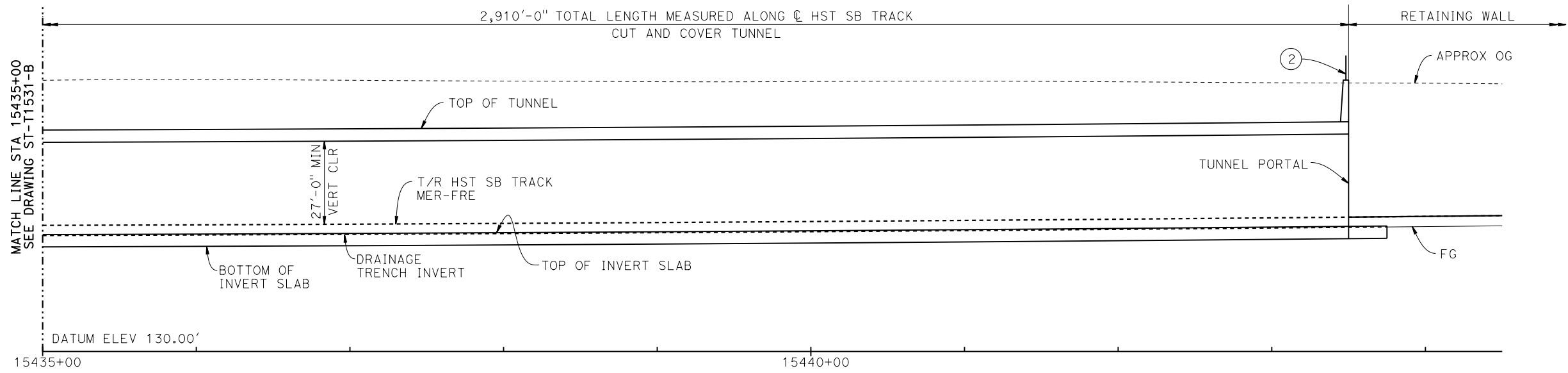
SCALE
AS SHOWN

SHEET NO.

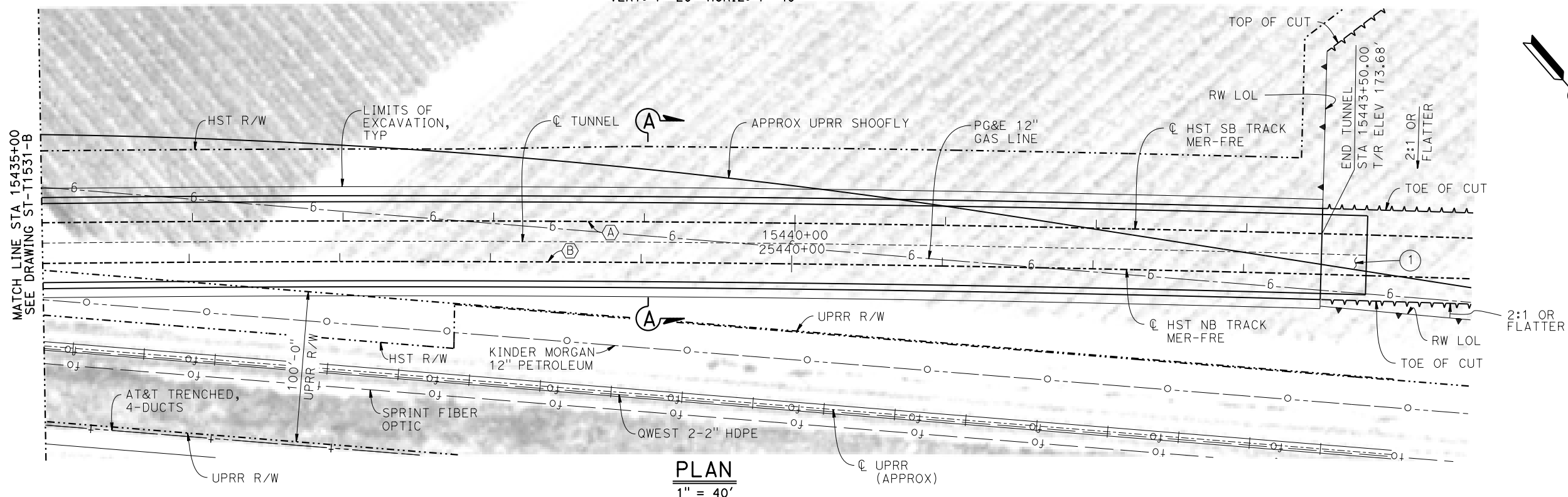
2250.00' VC
R/C=0.037%/STA

15446+61.44 PVT
ELEV 175.34'
0.59%

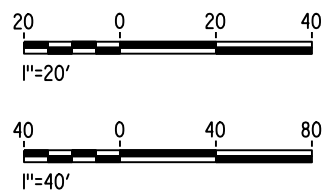
TOP OF RAIL PROFILE (C HST SB TRACK)
NO SCALE



DEVELOPED LONGITUDINAL SECTION
VERT: 1"=20' HORIZ: 1"=40'



PLAN
1" = 40'



10-MAR-2016 7:26 MF-ST-T1532-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. P.

CHECKED BY
S. J. S.

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

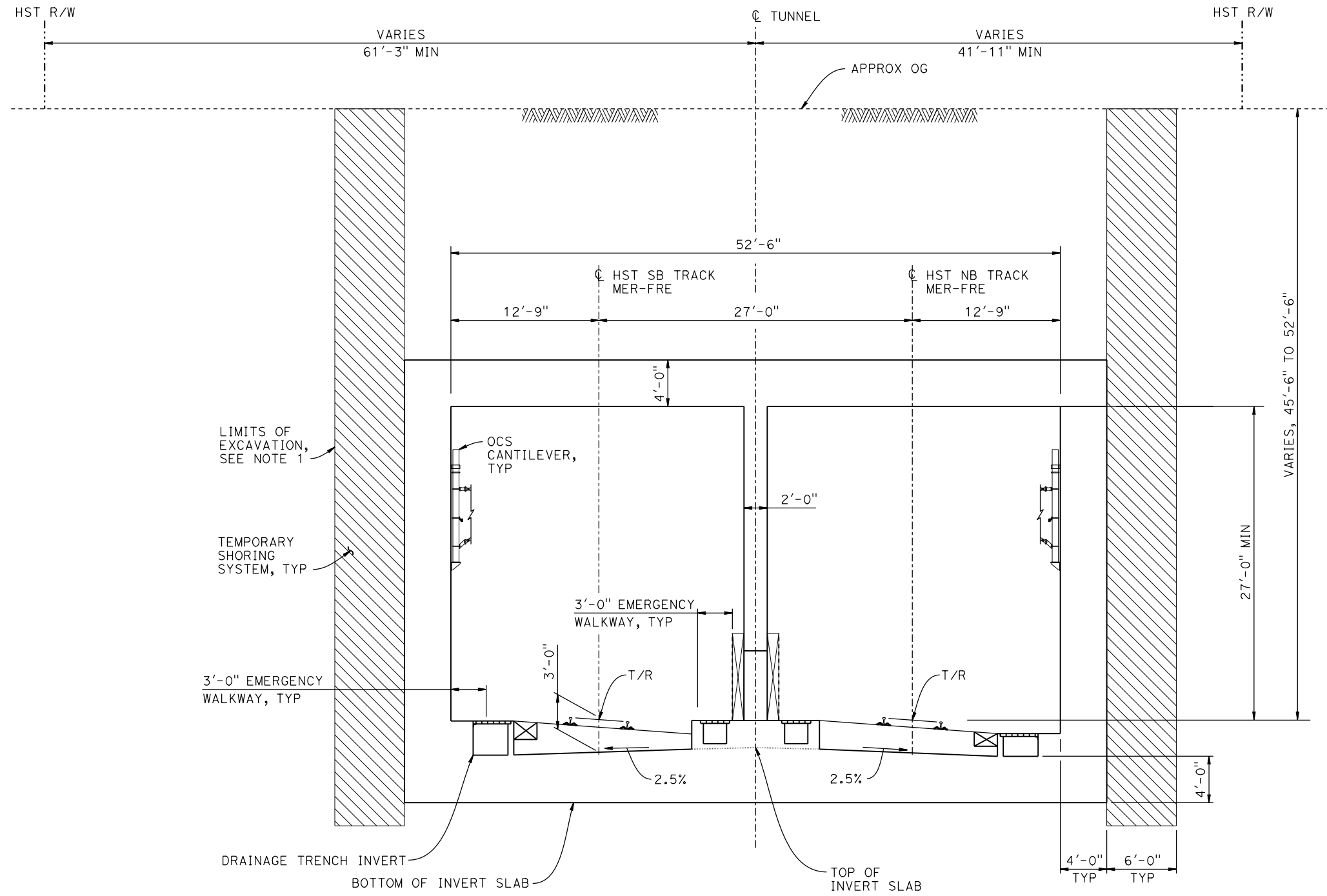
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (MER-FRE)
CUT AND COVER TUNNEL AT UPRR - 3 OF 5

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-T1532-B

SCALE
AS SHOWN

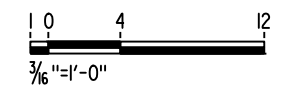
SHEET NO.



SECTION A-A
 $\frac{3}{16}'' = 1'-0''$

NOTES:

1. LIMITS OF EXCAVATION SHALL NOT EXTEND BEYOND HST R/W.
2. TUNNEL FINAL LINING SHALL BE WATERTIGHT FOR PERMANENT CASE.
3. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0055-B AND TT-B0057-B.



p0036110 MF-ST-T3530-B.dgn 07-FEB-2015 10:22

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. P.

CHECKED BY
S. J. S.

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

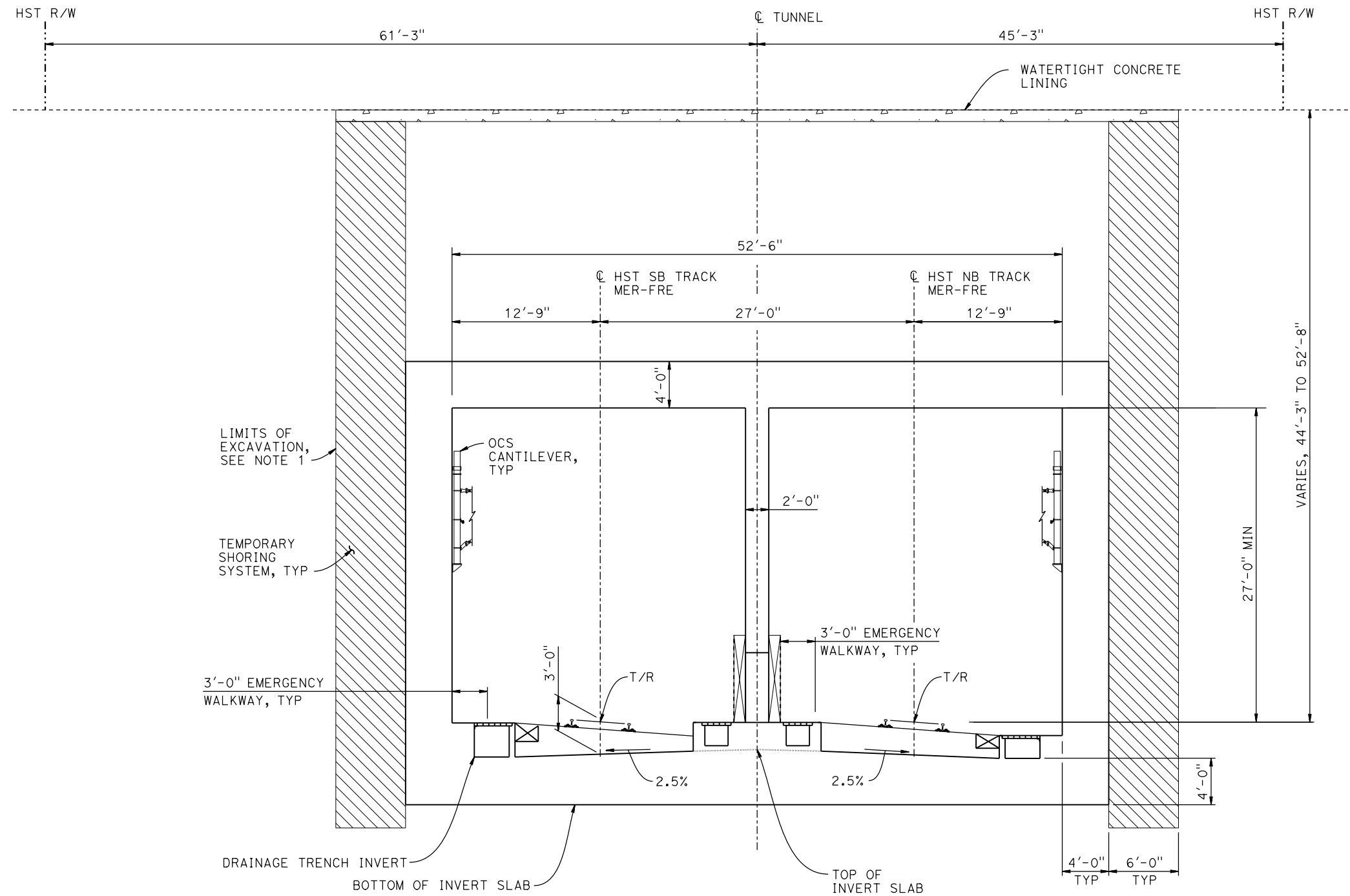
CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 TYPICAL SECTION (MER-FRE)
 CUT AND COVER TUNNEL AT UPRR - 4 OF 5

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-T3530-B

SCALE
AS SHOWN

SHEET NO.

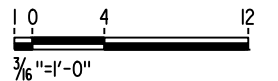


SECTION B-B

3/16" = 1'-0"

NOTES:

1. LIMITS OF EXCAVATION SHALL NOT EXTEND BEYOND HST R/W.
2. TUNNEL FINAL LINING SHALL BE WATERTIGHT FOR PERMANENT CASE.
3. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWINGS TT-B0055-B AND TT-B0057-B.



p0036110 MF-ST-T3531-B.dgn 07-FEB-2015 10:22

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
J. P.

CHECKED BY
S. J. S.

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

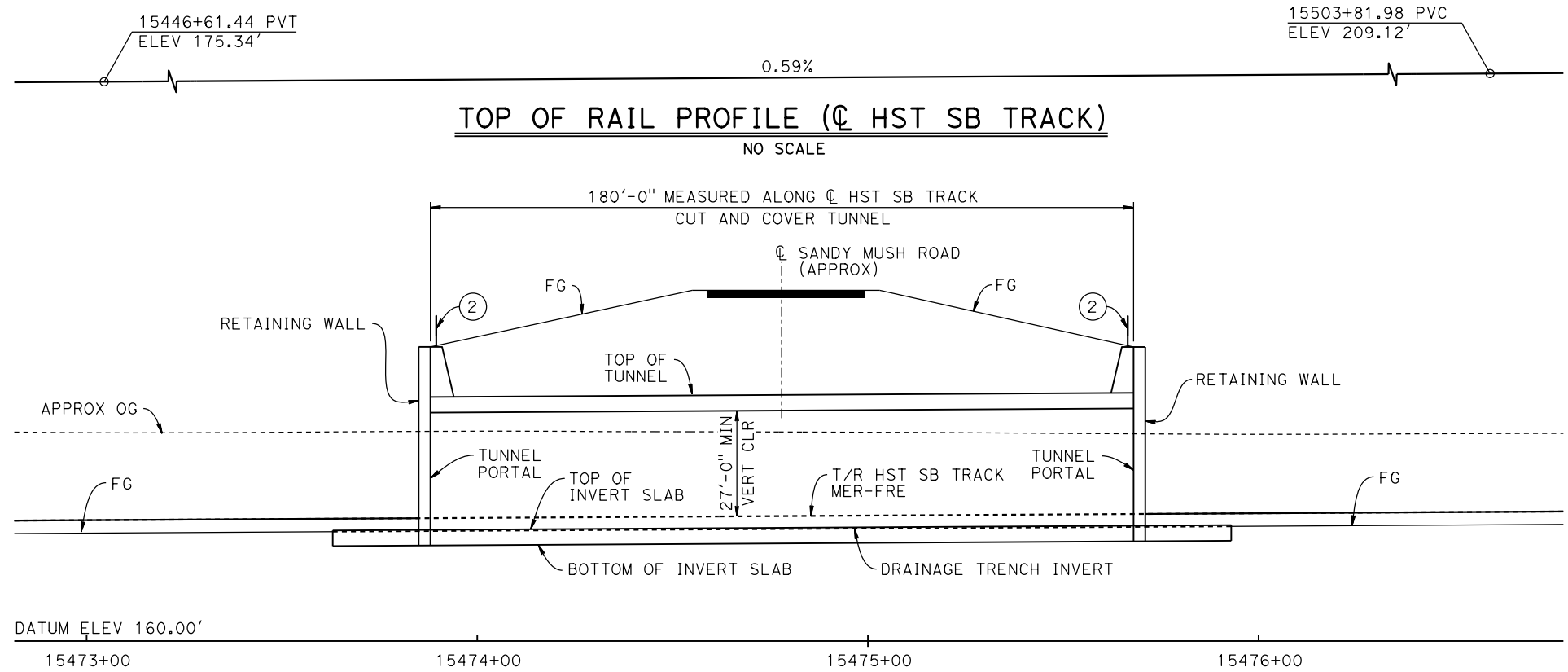
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
CUT AND COVER TUNNEL AT UPRR - 5 OF 5

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-T3531-B

SCALE
AS SHOWN

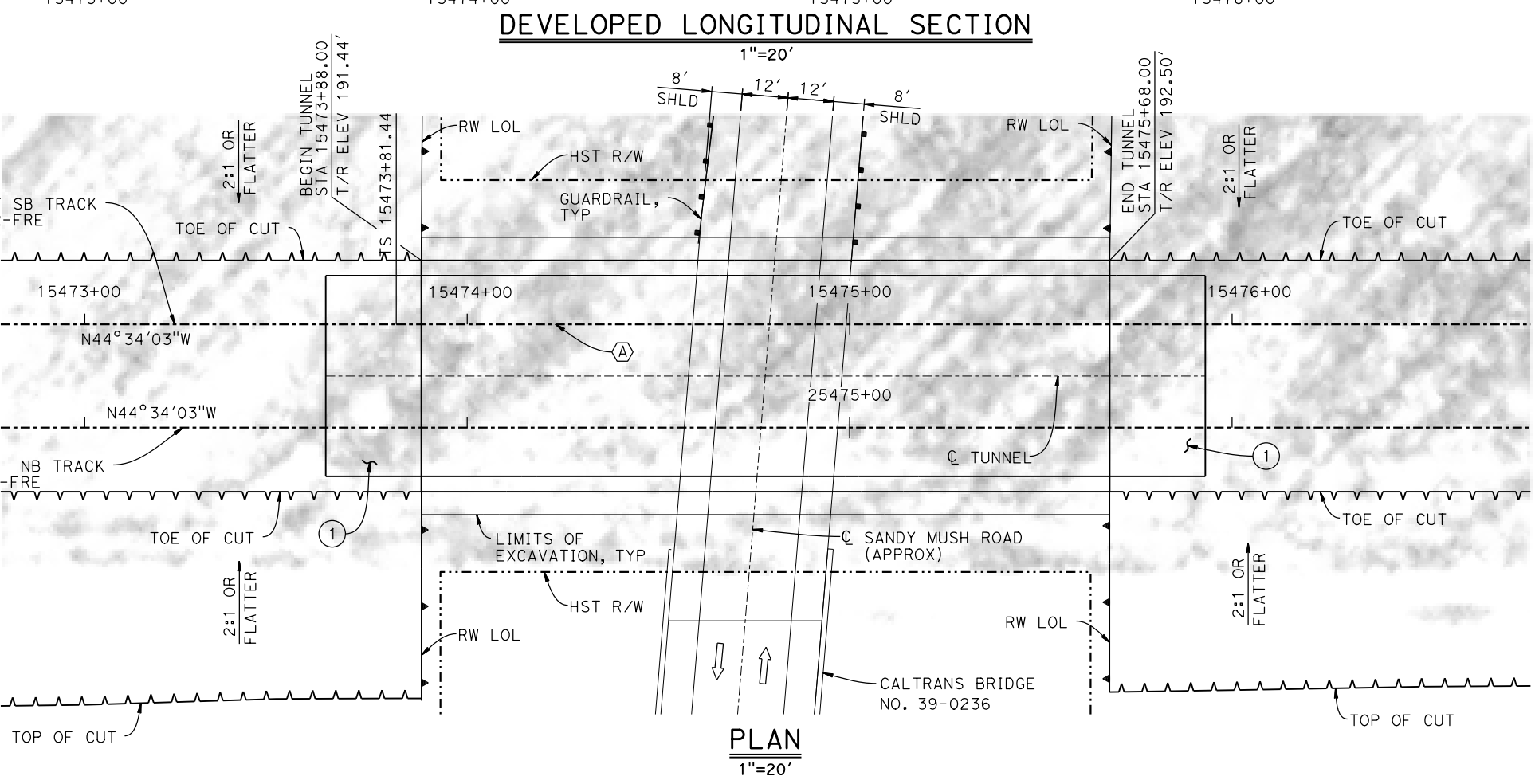
SHEET NO.



CURVE MER-FRE 4 SB (A)
 R = 867,000.00'
 LS = 1,000.00'

- NOTES:**
1. FOR SECTION, SEE DRAWING ST-T3540-B.
 2. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1540-B.
 3. FOR RETAINING WALLS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1540-B.
 4. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1540-B.
 5. FOR PORTAL FACILITIES, ACCESS AND EGRESS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1540-B.
 6. FOR VENTILATION STRUCTURES, SEE TPF, INTERLOCKING, AND RADIO SITE PLANS; DRAWING ME-S1540-B.

- LEGEND:**
- ➔ INDICATES DIRECTION OF TRAFFIC
 - ① STRUCTURE APPROACH
 - ② AR FENCE WITH SOLID PLATE



07-FEB-2015 10:13 MF-ST-T1540-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
O. EDEWOR

DRAWN BY
A. M.

CHECKED BY
S. J. S.

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

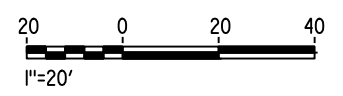
CENTRAL VALLEY WYE
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 GENERAL PLAN (MER-FRE)
 CUT AND COVER TUNNEL AT SANDY MUSH ROAD - 1 OF 2

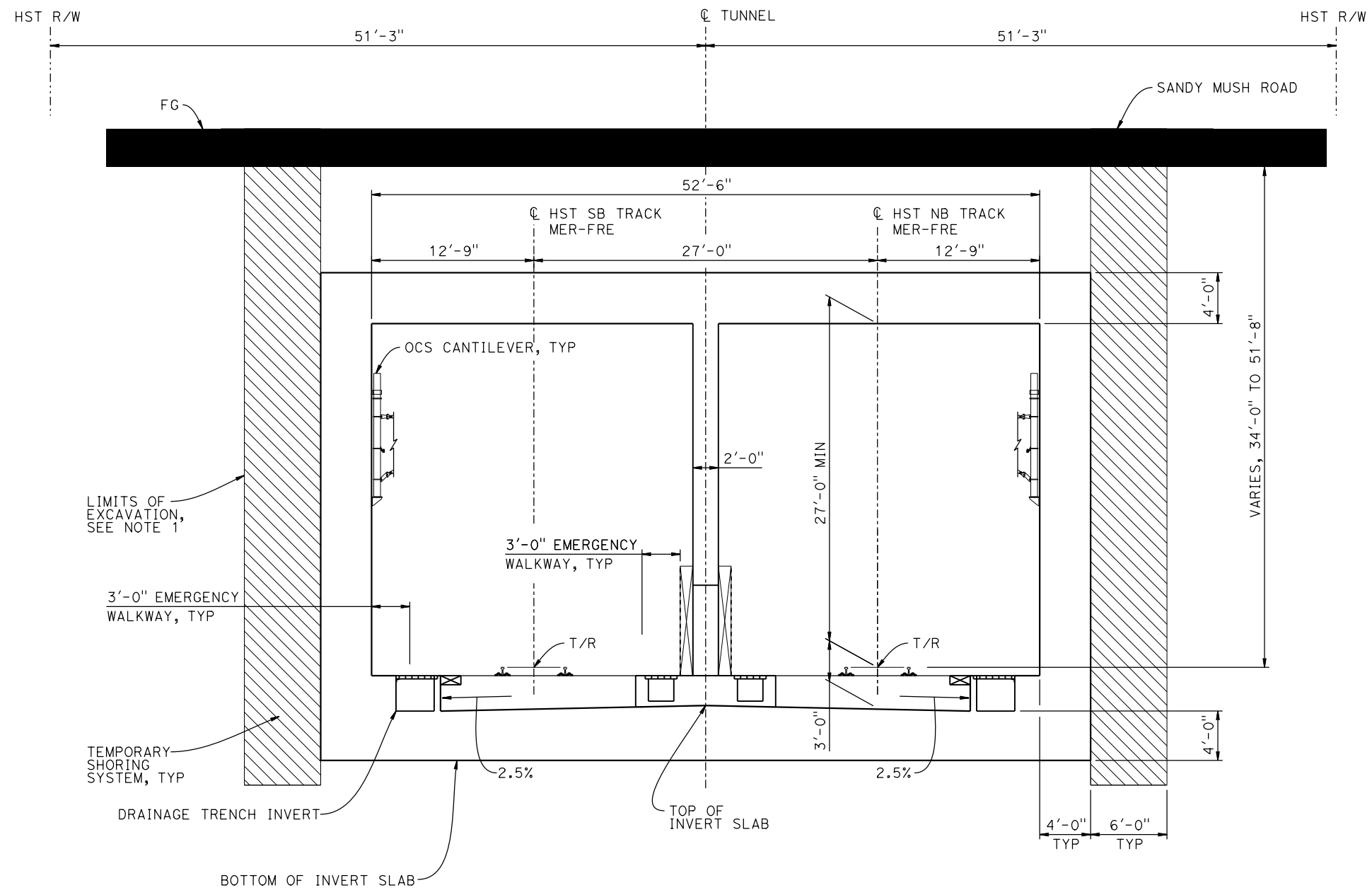
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-T1540-B

SCALE
AS SHOWN

SHEET NO.



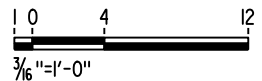


TYPICAL SECTION

3/16" = 1'-0"

NOTES:

1. LIMITS OF EXCAVATION SHALL NOT EXTEND BEYOND HST R/W.
2. TUNNEL FINAL LINING SHALL BE WATERTIGHT FOR PERMANENT CASE.



07-FEB-2015 10:14 MF-ST-T3540-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

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

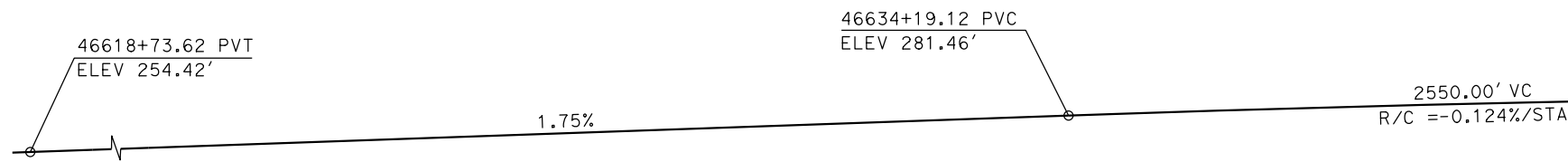
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTION (MER-FRE)
CUT AND COVER TUNNEL AT SANDY MUSH ROAD - 2 OF 2

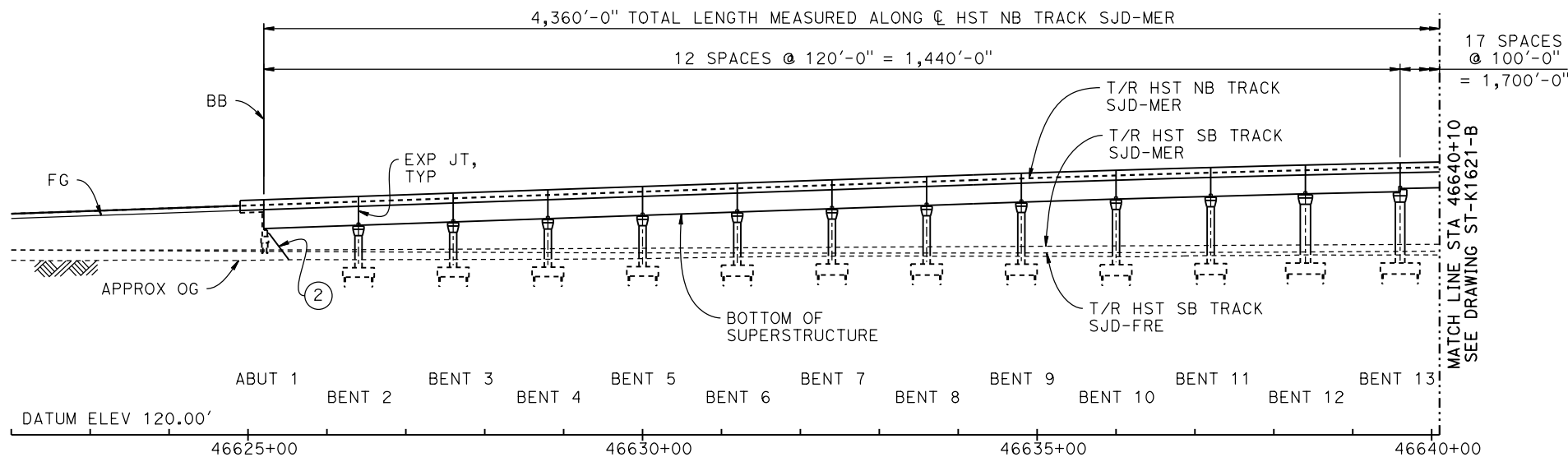
CONTRACT NO.
HSR08-05
DRAWING NO.
ST-T3540-B
SCALE
AS SHOWN
SHEET NO.



TOP OF RAIL PROFILE (C HST NB TRACK SJD-MER)
NO SCALE

LEGEND:

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



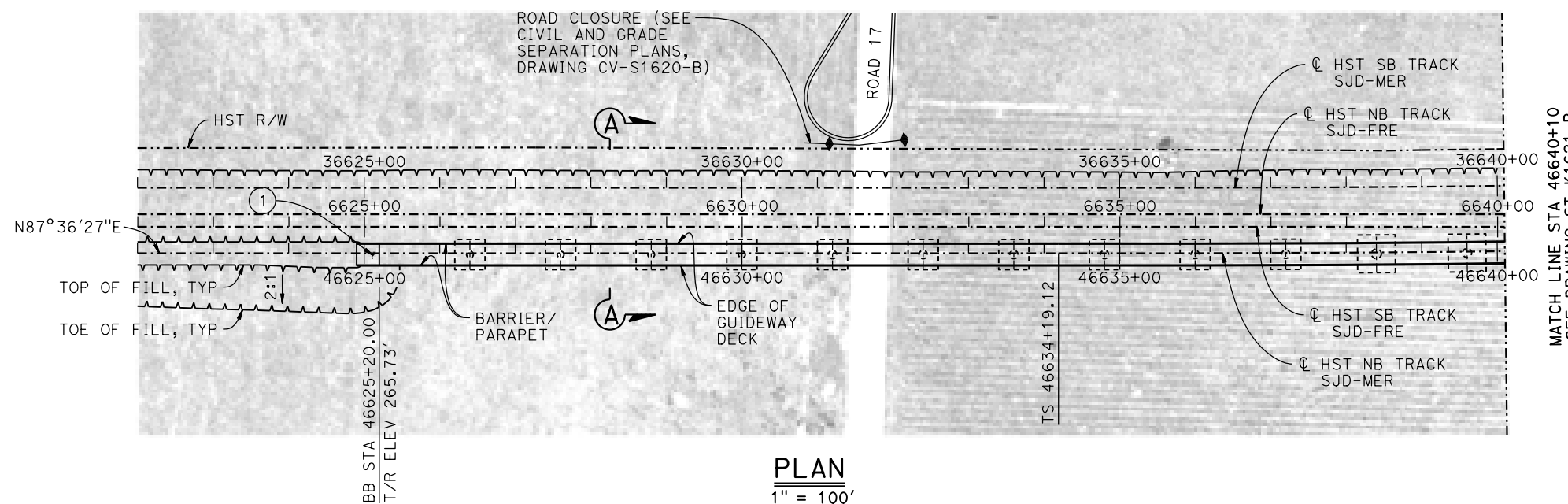
DEVELOPED ELEVATION
VERT: 1" = 50' HORIZ: 1" = 100'

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)		
ROAD 17½	46658+39	32'X16.5'	2-WAY
3. — TEMP TRAFFIC LANE REDUCTION FOR FTG EXC.			

NOTES:

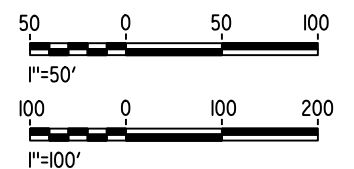
1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWINGS ST-K3620-B AND ST-K3621-B.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1610-B AND CV-S1620-B.
5. FOR ROAD 17½ UNDERPASS (HST SB) GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1625-B.
6. FOR ROAD 17½ UNDERPASS GENERAL PLAN AND TYPICAL SECTION, SEE DRAWING ST-K1240-B.



PLAN
1" = 100'

CURVE SJD-MER 1 NB (A)

R = 10,386.50'
LS = 1,200.00'



07-FEB-2015 09:54 MF-ST-K1620-B.dgn

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



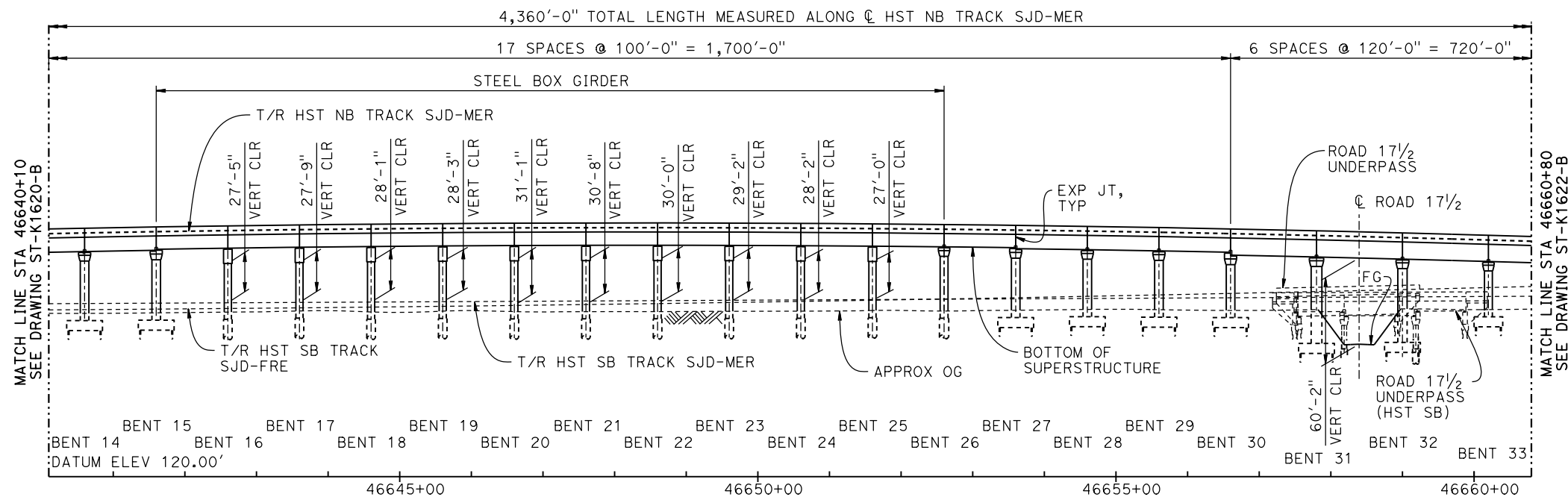
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 1 OF 5

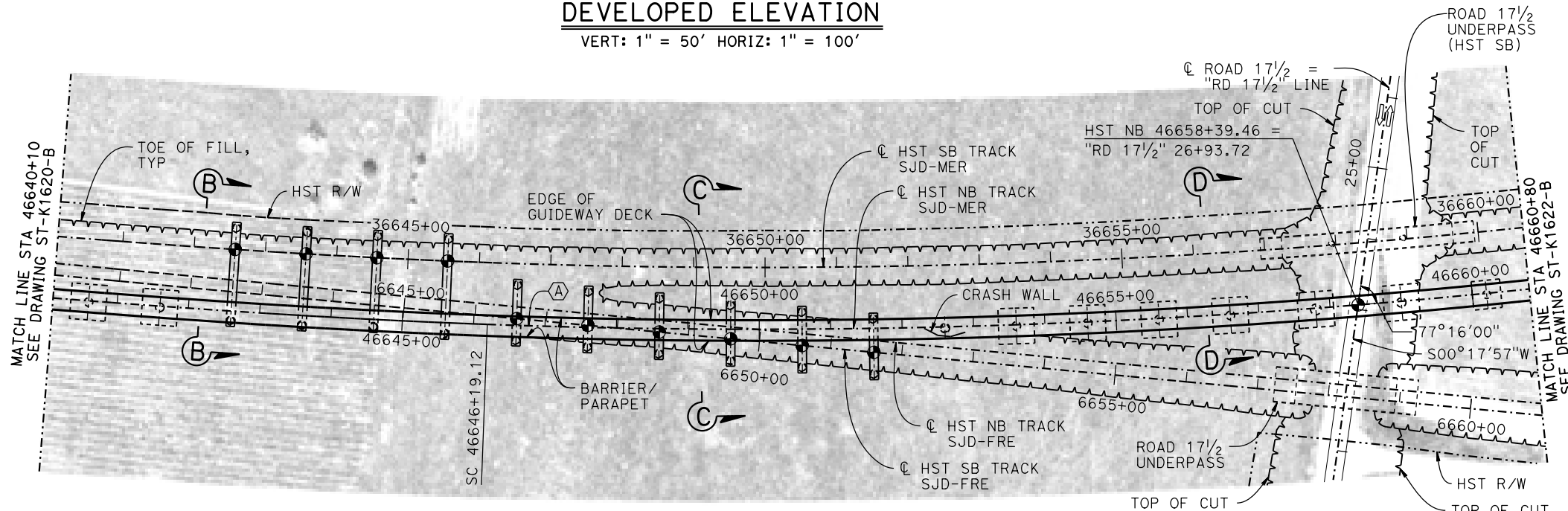
CONTRACT NO. HSR08-05
DRAWING NO. ST-K1620-B
SCALE AS SHOWN
SHEET NO.

2550.00' VC
R/C = -0.124%/STA

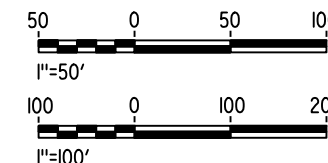
TOP OF RAIL PROFILE (C HST NB TRACK SJD-MER)
NO SCALE



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



PLAN
1" = 100'



MF-ST-K1621-B.dgn 07-FEB-2015 09:55 P0036110

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 2 OF 5

CONTRACT NO.
HSR08-05

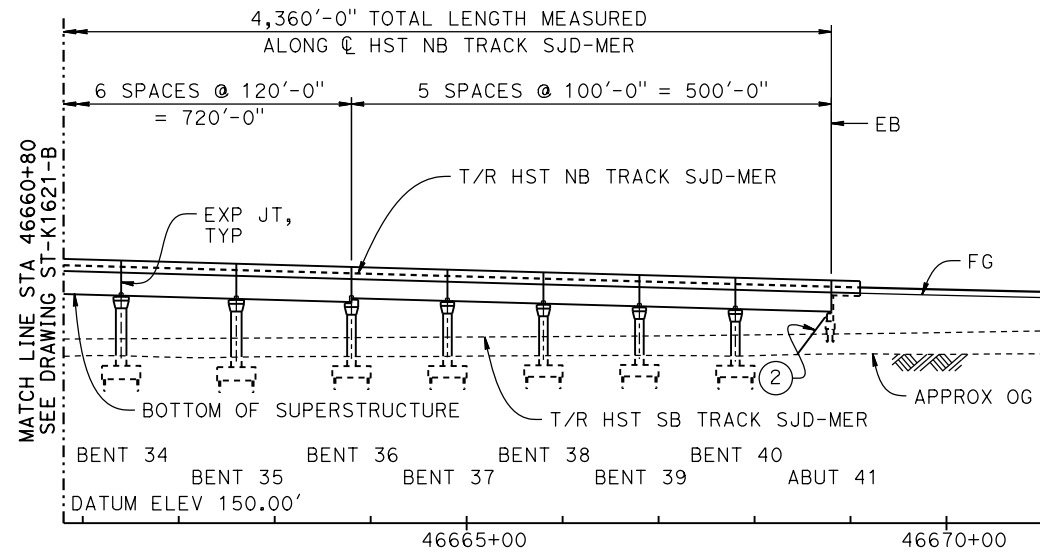
DRAWING NO.
ST-K1621-B

SCALE
AS SHOWN

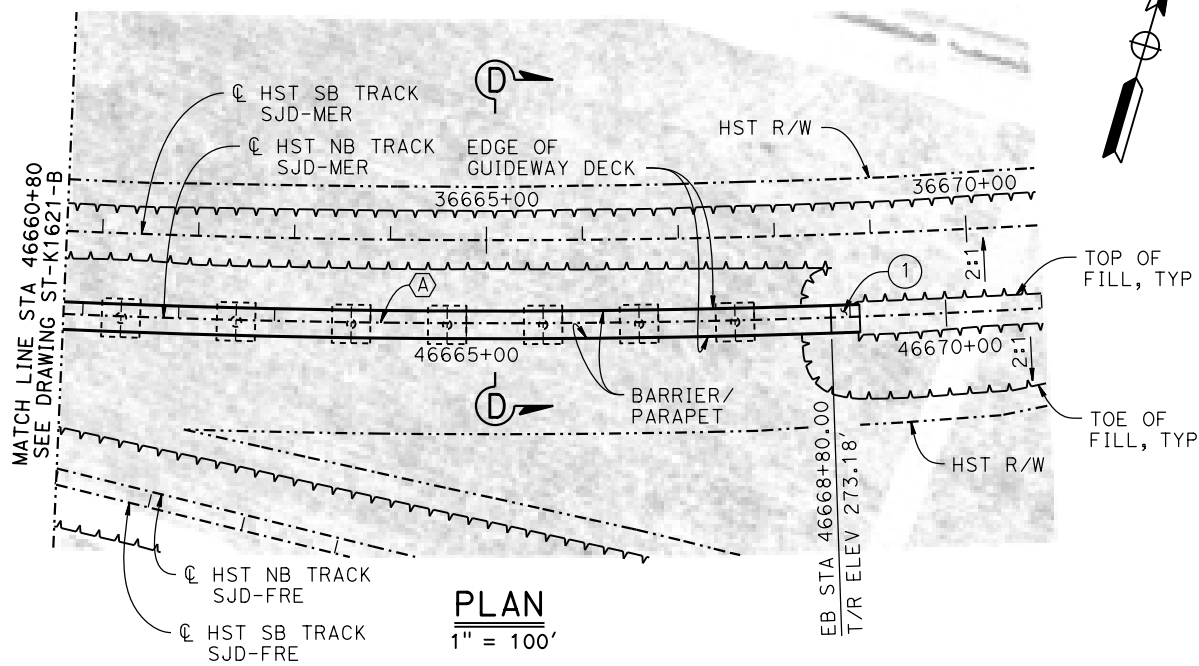
SHEET NO.



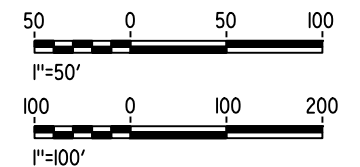
TOP OF RAIL PROFILE (CL HST NB TRACK SJD-MER)
NO SCALE



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



PLAN
1" = 100'



07-FEB-2015 09:55 MF-ST-K1622-B.dgn

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

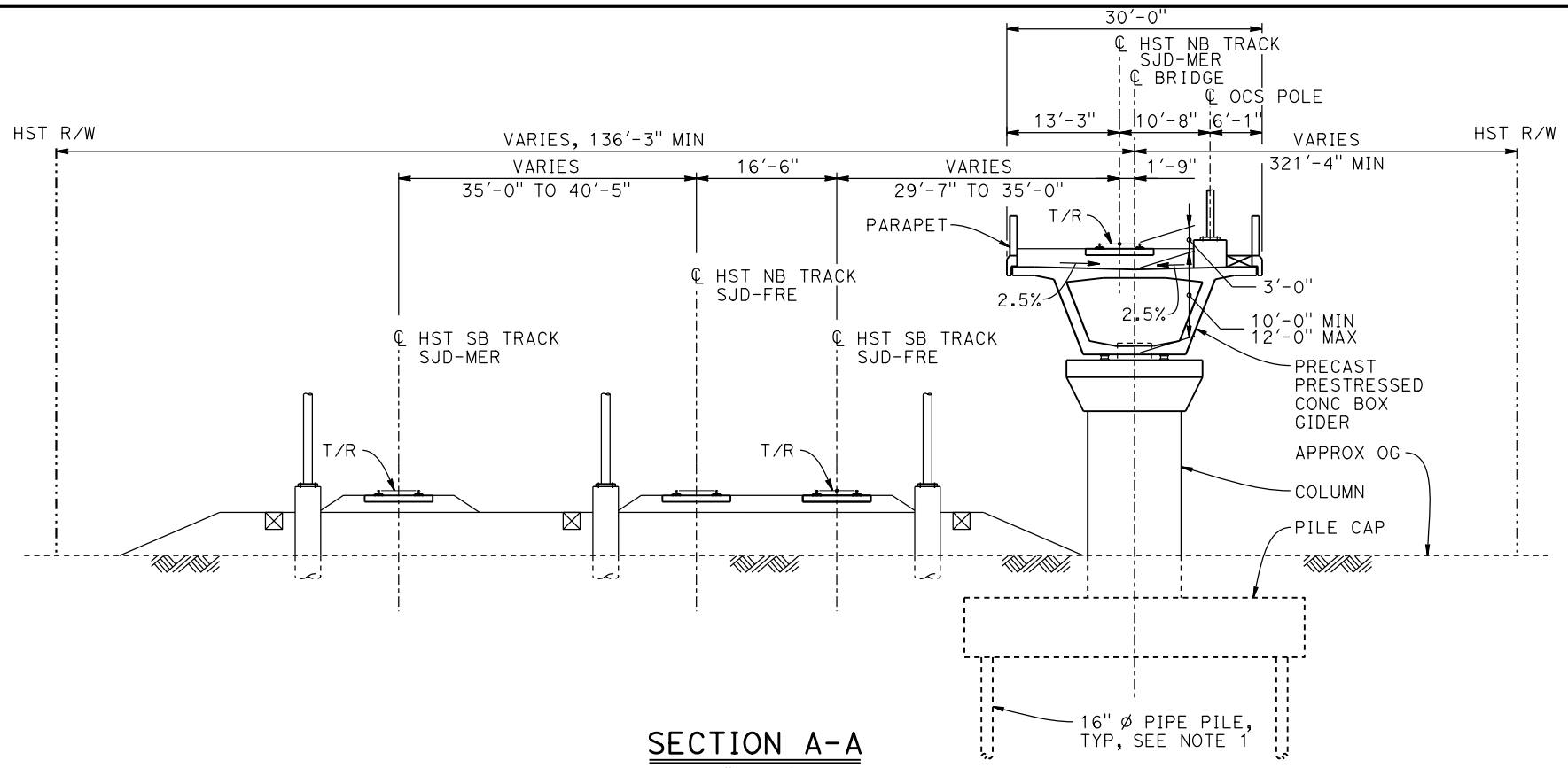
RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

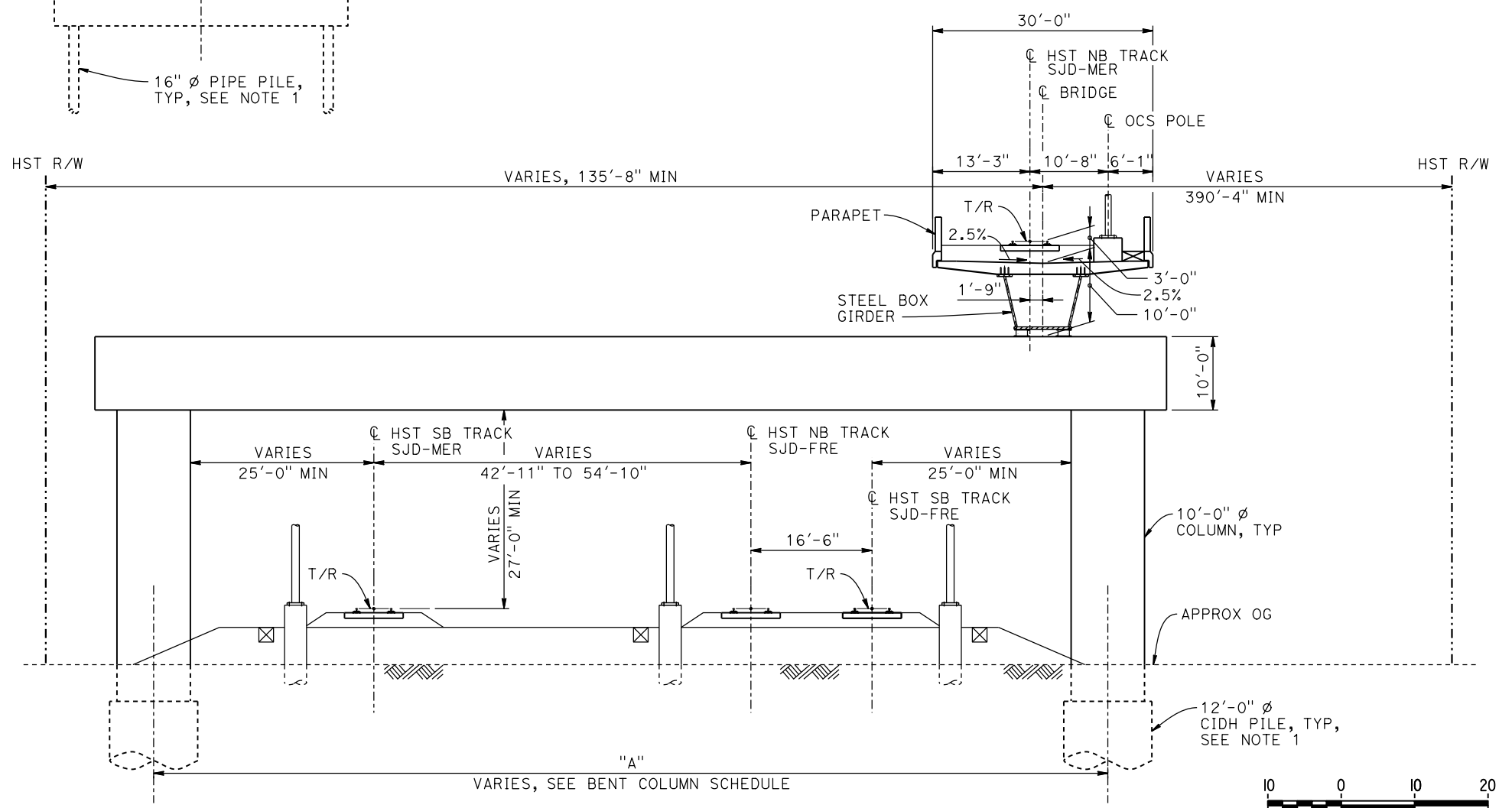


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 3 OF 5

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K1622-B
SCALE
AS SHOWN
SHEET NO.



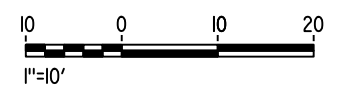
SECTION A-A
1" = 10'



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-B0058-B.

BENT COLUMN SCHEDULE			
BENT	COLUMN TYPE	CIDH TYPE	"A"
2 - 5	9'-0" Ø		
6 - 11	11'-0" Ø		
12	13'-0" Ø		
13 - 15	12'-0" Ø		
16 - 17	2 - 10'-0" Ø		130'-0"
18	2 - 10'-0" Ø		127'-0"
19	2 - 10'-0" Ø		132'-0"
20 - 25	2 - 10'-0" Ø		77'-0"
26	11'-0" Ø	13'-0" Ø	
27 - 30	12'-0" Ø		
31	15'-0" Ø		
32	13'-0" Ø		
33 - 35	11'-0" Ø		
36 - 40	9'-0" Ø		



07-FEB-2015 09:56 MF-ST-K3620-B.dgn

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

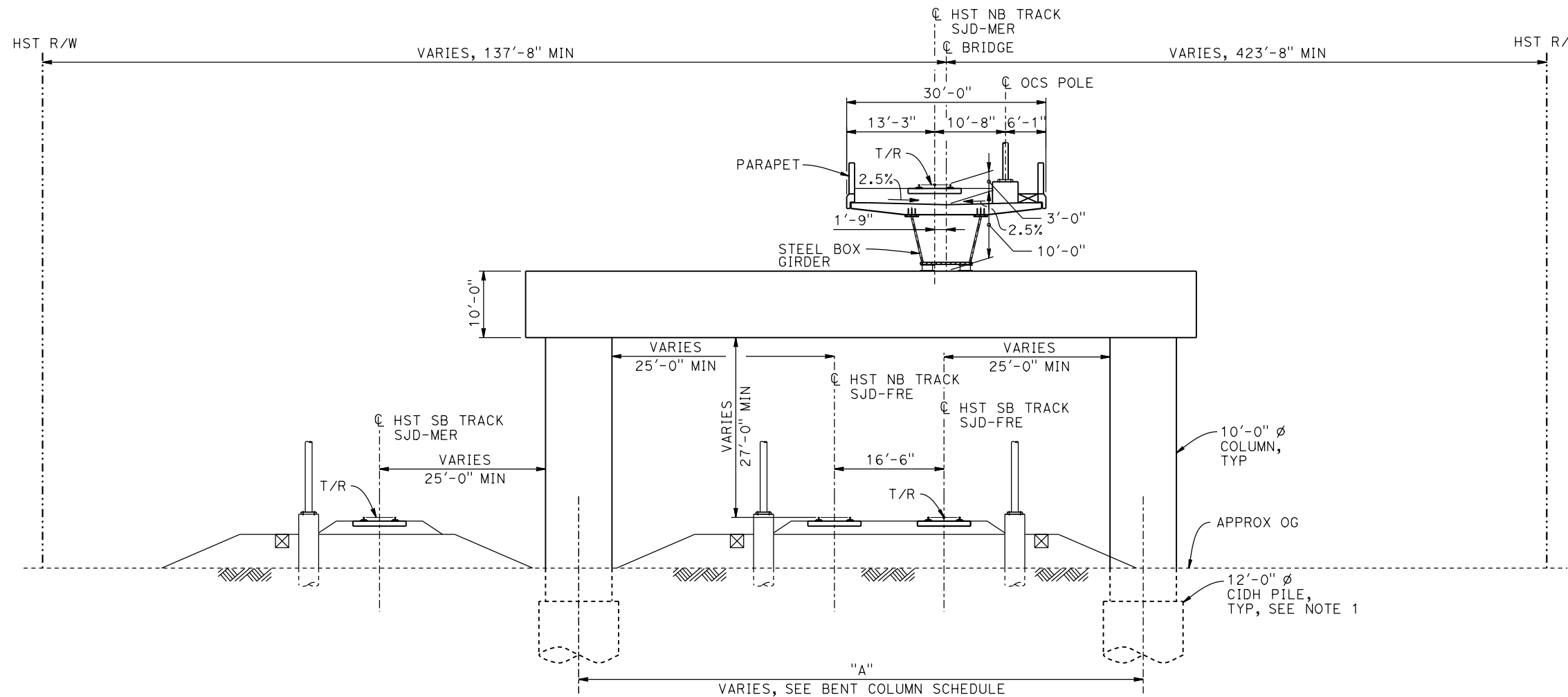
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 4 OF 5

CONTRACT NO.
HSR08-05

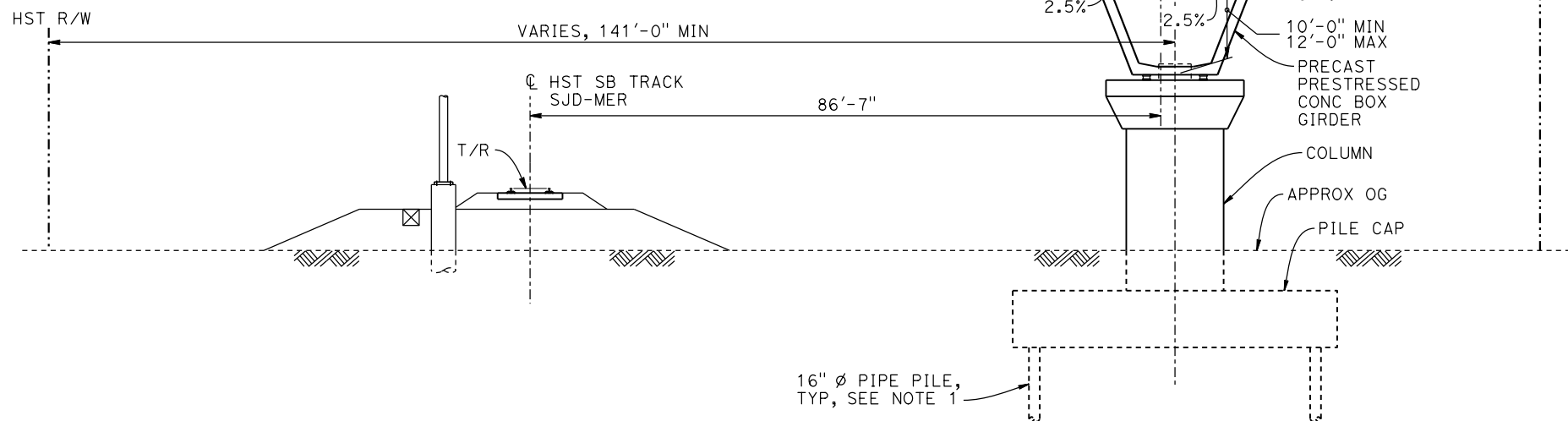
DRAWING NO.
ST-K3620-B

SCALE
AS SHOWN

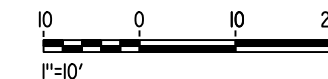
SHEET NO.



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-B.

07-FEB-2015 09:56 MF-ST-K3621-B.dgn

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

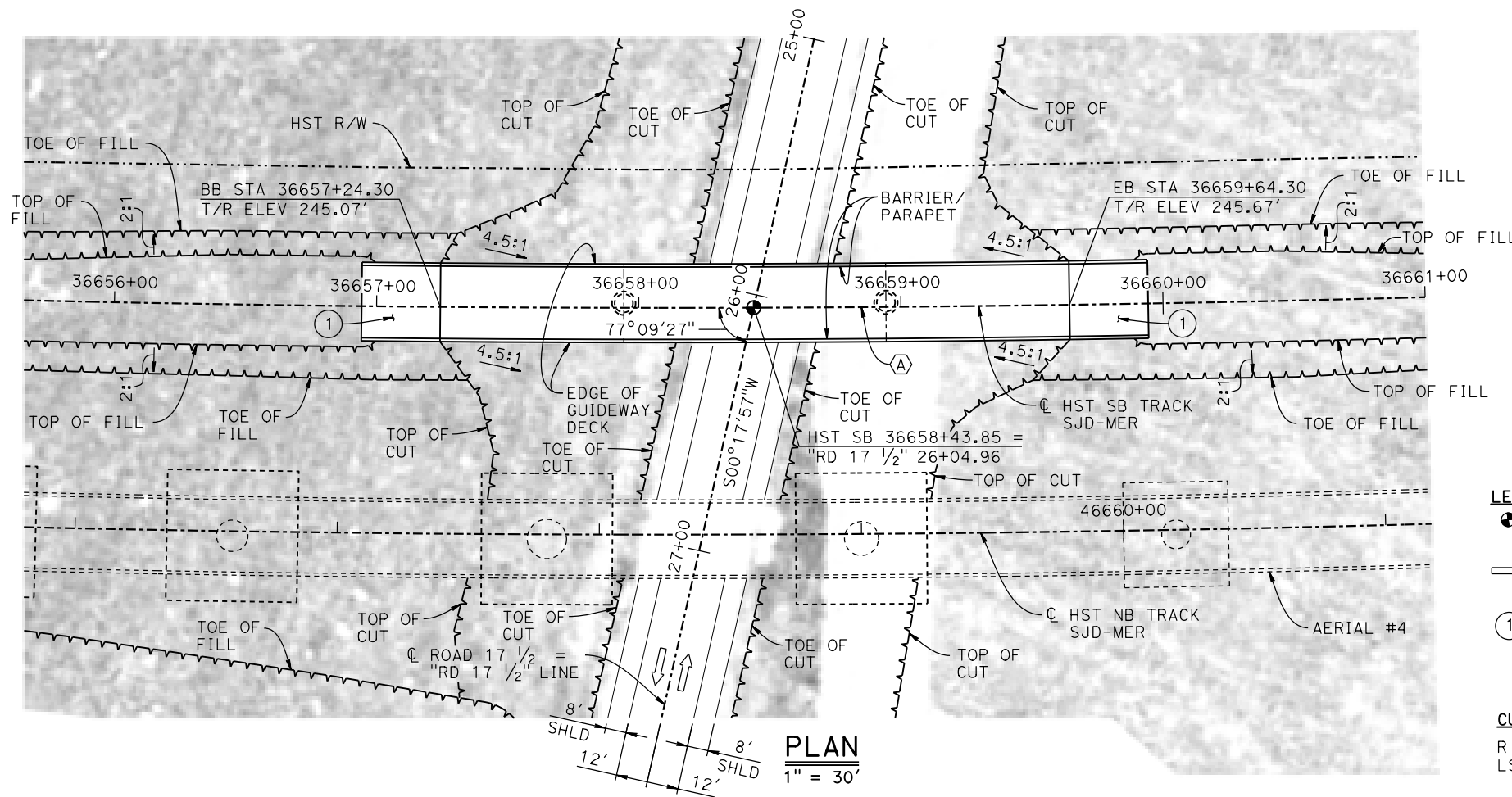
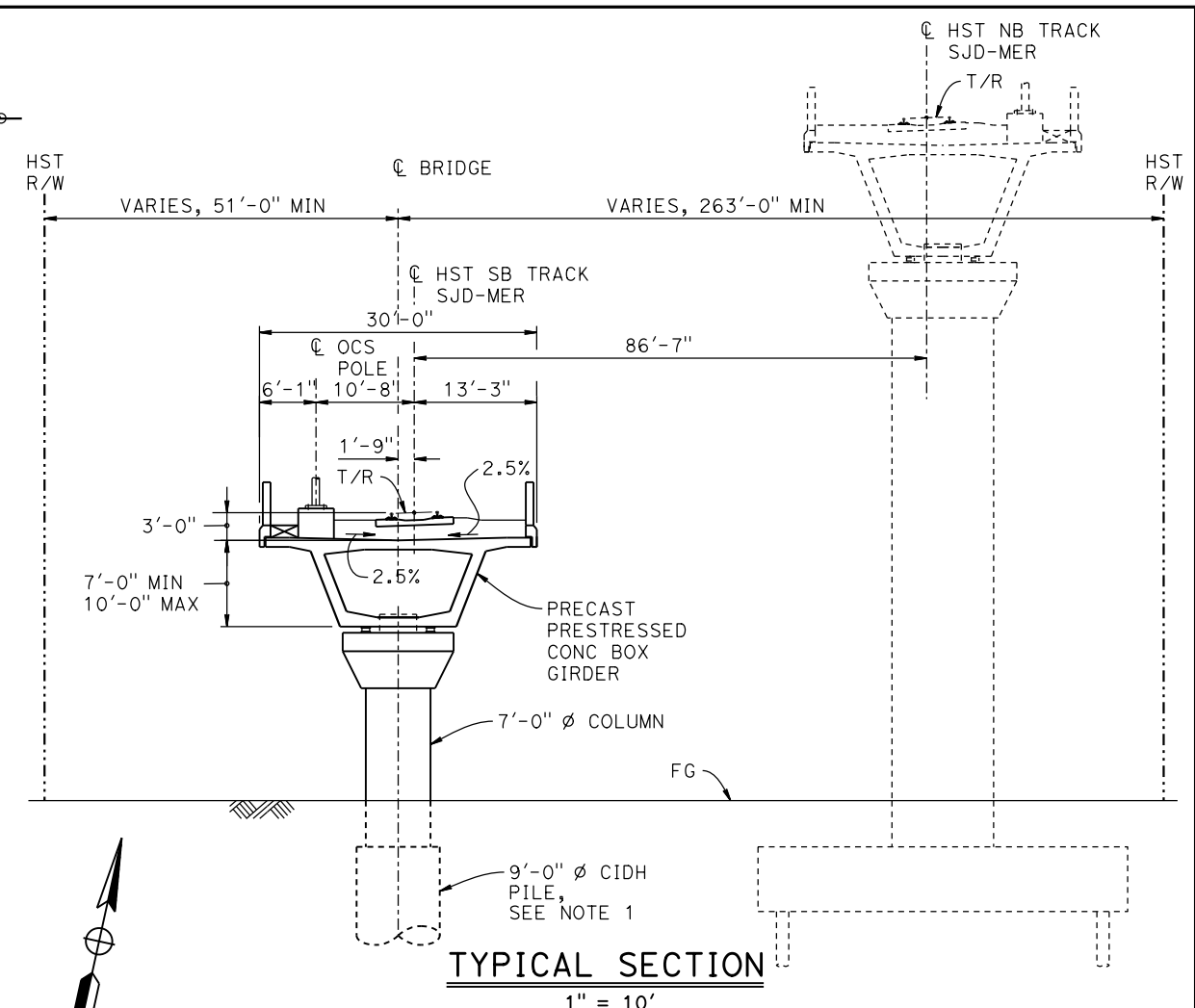
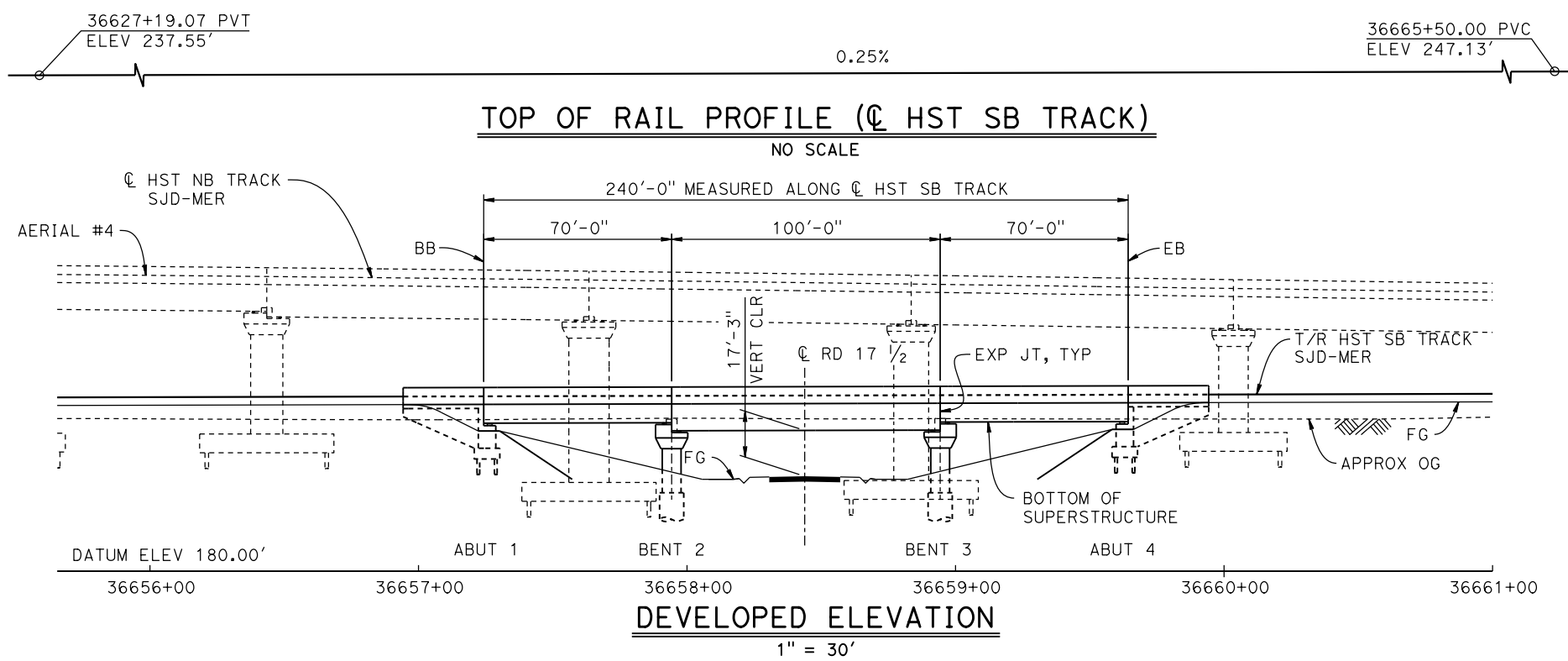
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #4 - NORTHBOUND OVER HST MAINLINE - 5 OF 5

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K3621-B

SCALE
AS SHOWN

SHEET NO.



LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
- ➔ INDICATES DIRECTION OF TRAFFIC
- ① STRUCTURE APPROACH

CURVE SJD-MER 1 SB (A)
R = 10,300.00'
LS = 1,200.00'

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)		
ROAD 17 1/2	36658+44	32'X16.5'	2-WAY
3. _ TEMP TRAFFIC LANE REDUCTION FOR FTG EXCAVATION.			

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-S1620-B.
- FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0056-B.
- FOR AERIAL #4 - NORTHBOUND OVER MAINLINE GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1620-B TO ST-K1622-B, ST-K3620-B AND ST-K3621-B.

10 0 10 20 30 0 30 60
1"=10' 1"=30'

16-MAR-2016 16:21 MF-ST-K1625-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

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

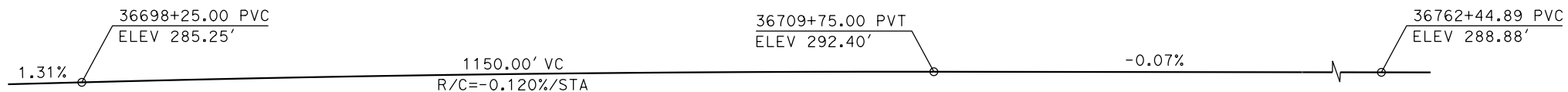
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
ROAD 17 1/2 UNDERPASS (HST SB)

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1625-B

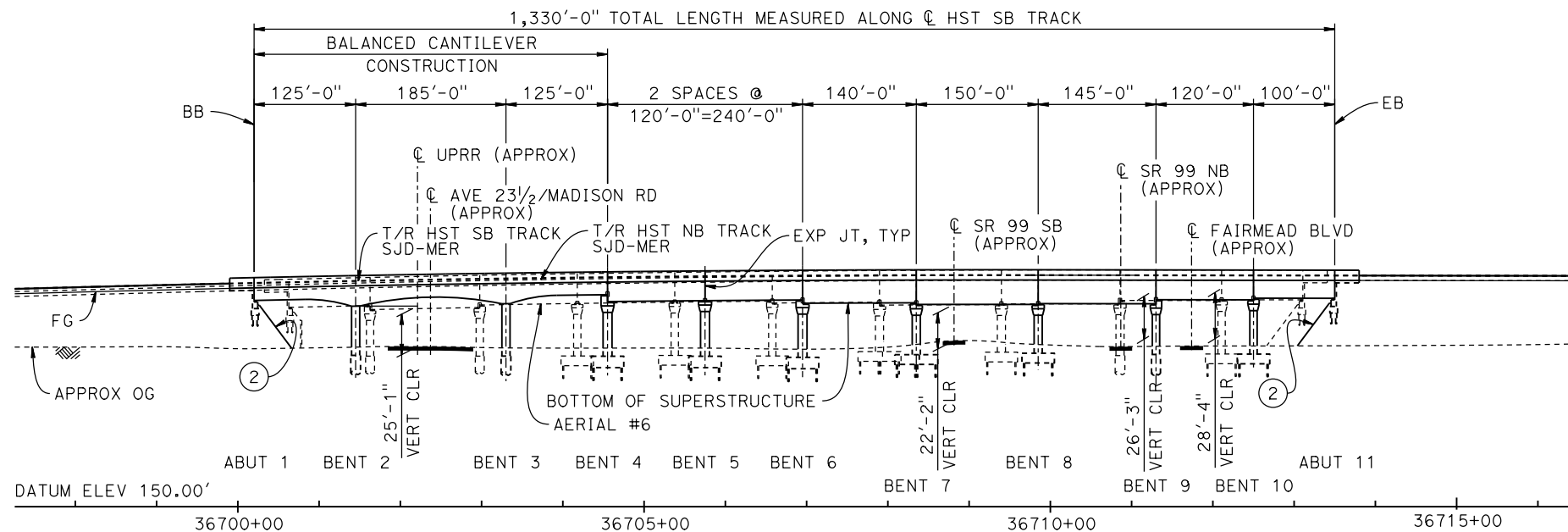
SCALE
AS SHOWN

SHEET NO.



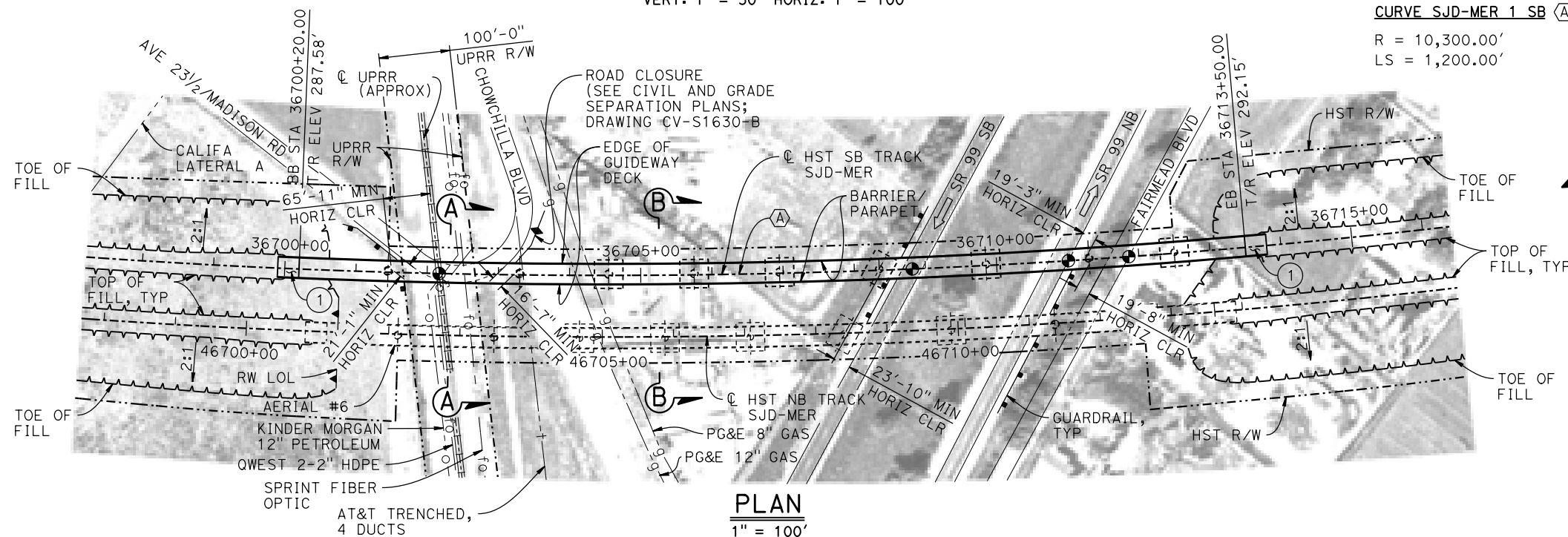
TOP OF RAIL PROFILE (C HST SB TRACK)

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 (1 1/2H:1V)

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-K3630-B.
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-S1630-B.
5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-B.
6. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-B.
7. FOR AERIAL #6 - NORTHBOUND OVER UPRR / SR 99 GENERAL PLAN AND TYPICAL SECTION, SEE DRAWINGS ST-K1635-B AND ST-K3635-B.

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)	
AVE 23 1/2 MADISON RD	36702+30	32'X16.5'	2-WAY
SR 99	36708+82	37'X16.5'	S BND
SR 99	36710+88	37'X16.5'	N BND
FAIRMEAD BLVD	36711+76	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	36702+17	24'X21'



16-MAR-2016 16:22 MF-ST-K1630-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
J. KIDWELL

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

AERIAL #5 - SOUTHBOUND OVER UPRR / SR 99 - 1 OF 2

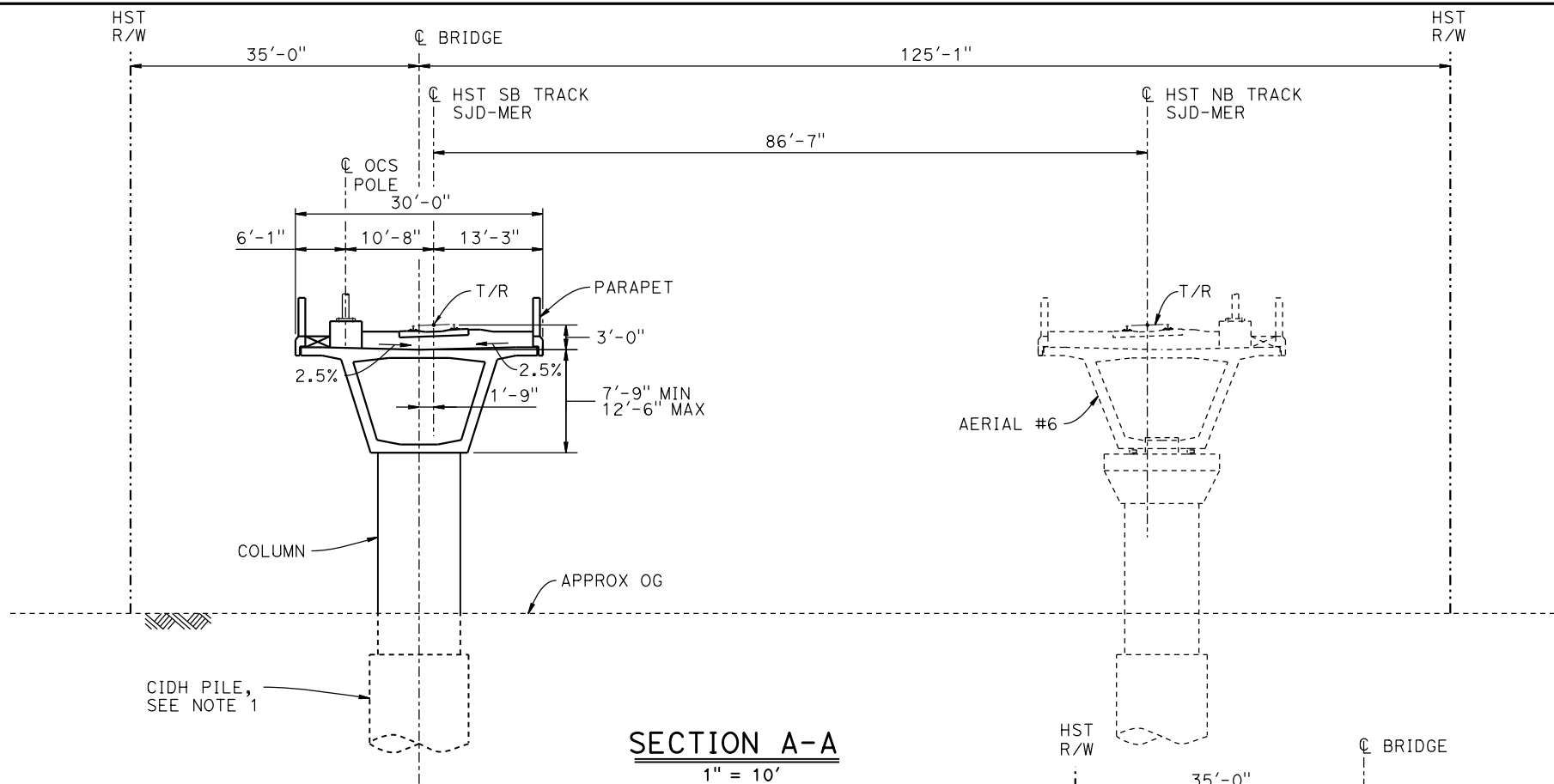
CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1630-B

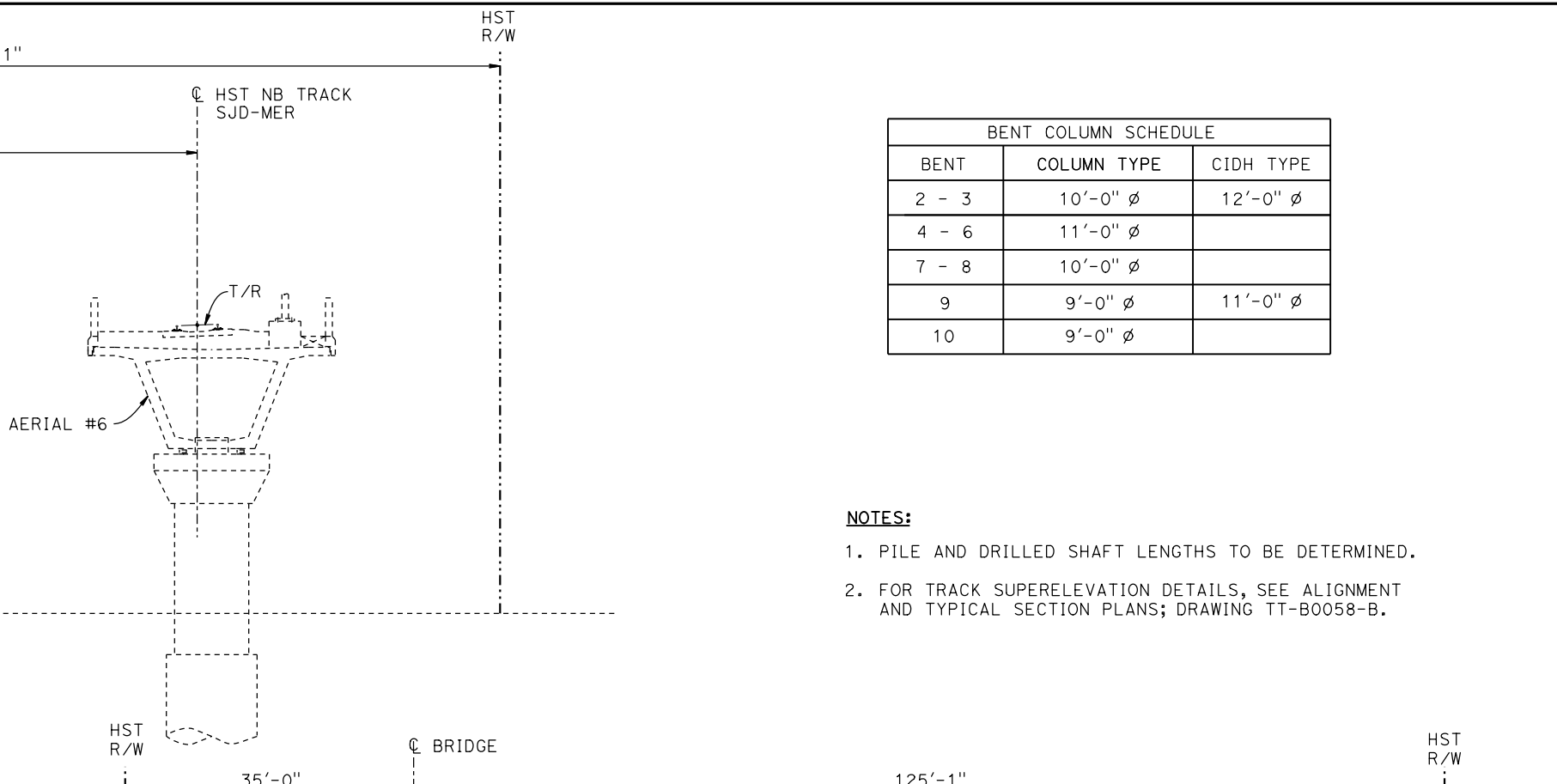
SCALE
AS SHOWN

SHEET NO.

07-FEB-2015 09:58 MF-ST-K3630-B.dgn



SECTION A-A
1" = 10'

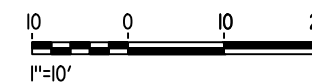


SECTION B-B
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2 - 3	10'-0" ϕ	12'-0" ϕ
4 - 6	11'-0" ϕ	
7 - 8	10'-0" ϕ	
9	9'-0" ϕ	11'-0" ϕ
10	9'-0" ϕ	

NOTES:

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



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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)
AERIAL #5 - SOUTHBOUND OVER UPRR / SR 99 - 2 OF 2

CONTRACT NO.
HSR08-05

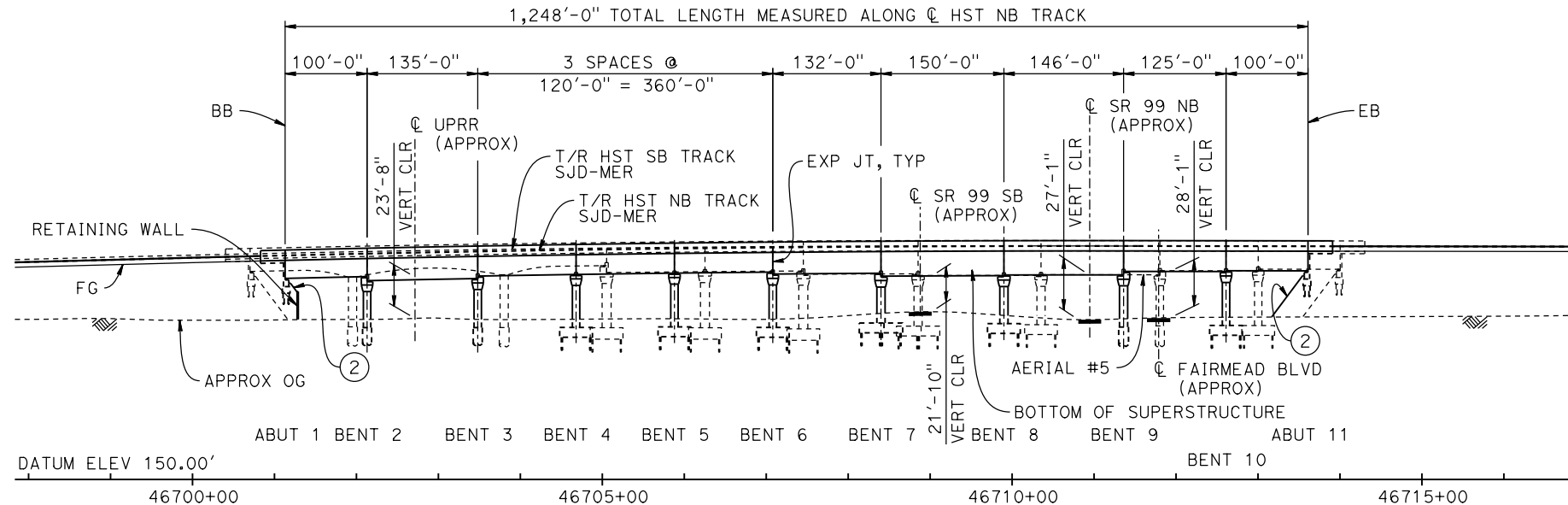
DRAWING NO.
ST-K3630-B

SCALE
AS SHOWN

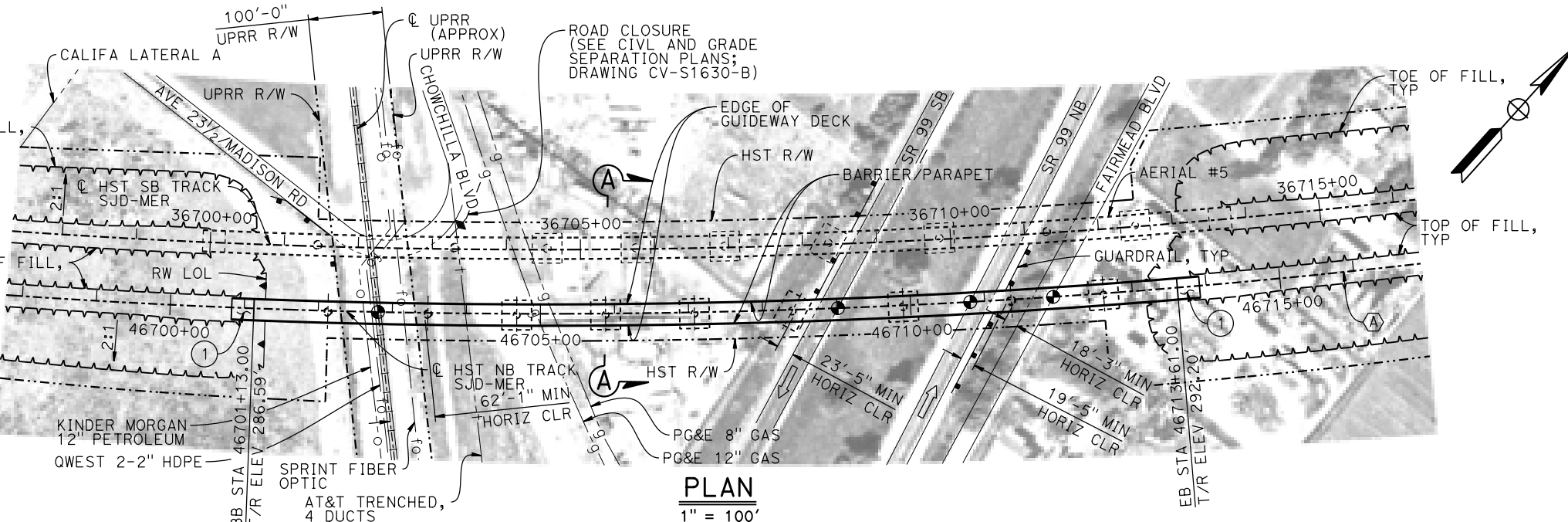
SHEET NO.



TOP OF RAIL PROFILE (C HST NB TRACK)
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 (1 1/2H:1V)

- NOTES:**
1. 16" Ø PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
 2. FOR SECTION AND BENT COLUMN SCHEDULE, SEE DRAWING ST-K3635-B.
 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-S1630-B.
 5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-B.
 6. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1630-B.
 7. FOR AERIAL #5 - SOUTHBOUND OVER UPRR / SR 99 GENERAL PLAN AND TYPICAL SECTIONS, SEE DRAWINGS ST-K1630-B AND ST-K3630-B.

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)	
SR 99	46708+88	37'X16.5'	S BND
SR 99	46710+94	37'X16.5'	N BND
FAIRMEAD BLVD	46711+81	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	46702+81 24'X21'

CURVE SJD-MER 1 NB (A)
R = 10,386.50'
LS = 1,200.00'



17-MAR-2016 09:38 MF-ST-K1635-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S.

DRAWN BY
J. KIDWELL

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

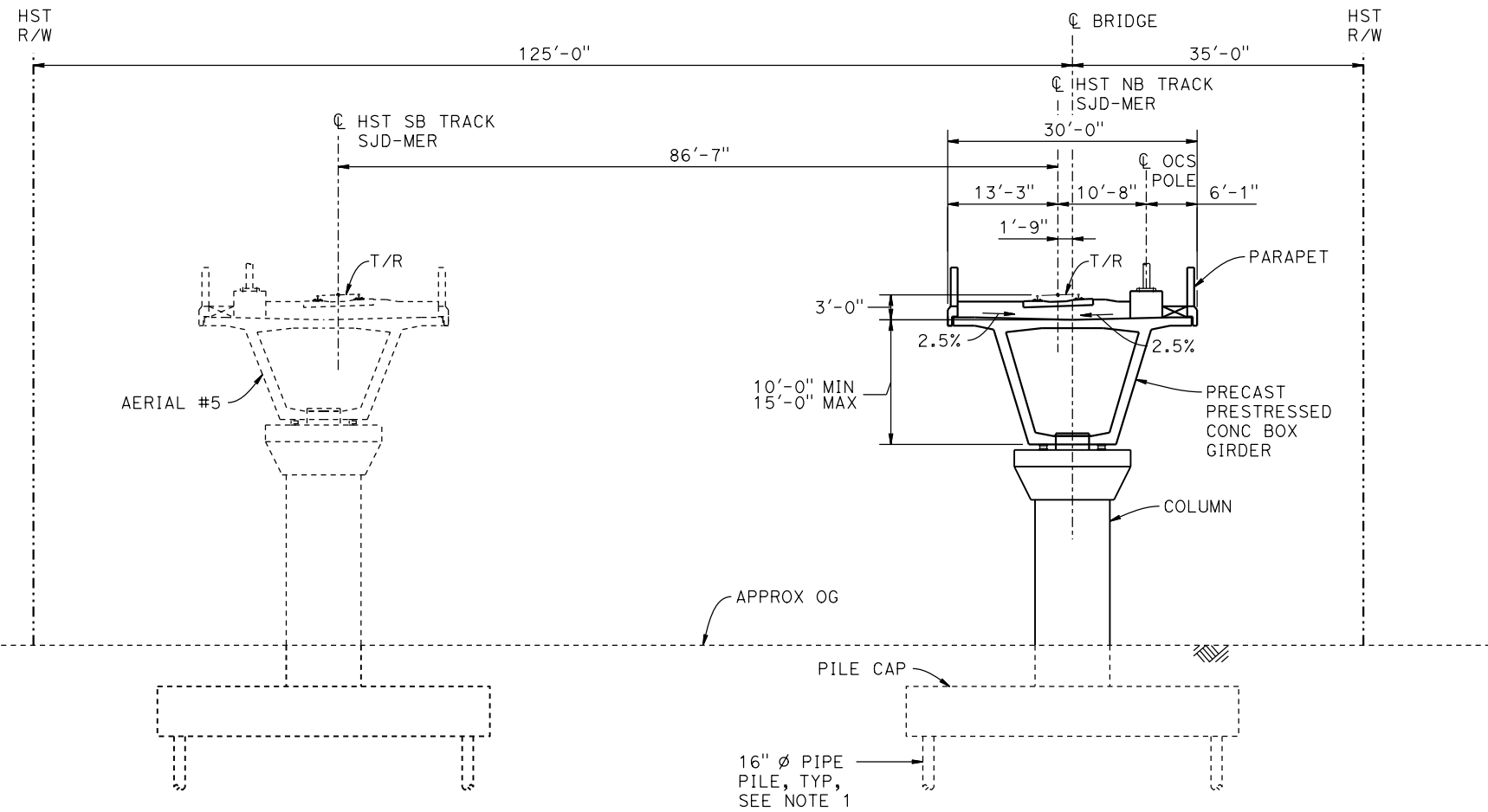
AERIAL #6 - NORTHBOUND OVER UPRR / SR 99 - 1 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1635-B

SCALE
AS SHOWN

SHEET NO.

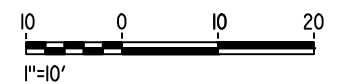


SECTION A-A
1" = 10'

BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	CIDH TYPE
2 - 3	9'-0" ϕ	11'-0" ϕ
4 - 6	9'-0" ϕ	
7 - 8	10'-0" ϕ	
9	10'-0" ϕ	12'-0" ϕ
10	9'-0" ϕ	

NOTES:

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



16-MAR-2016 16:22 MF-ST-K3635-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. J. S

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

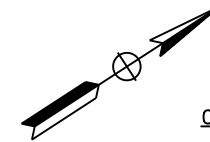
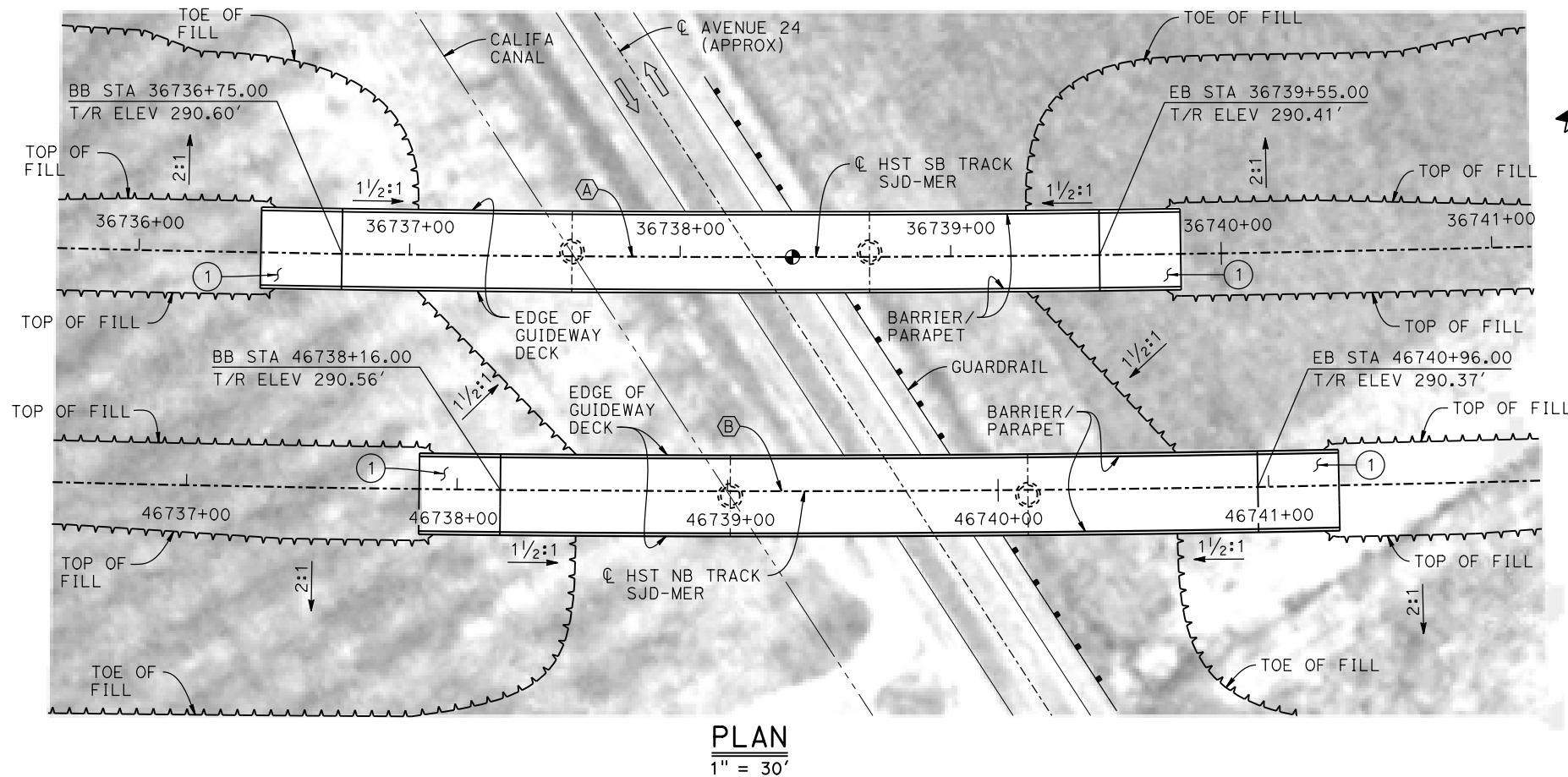
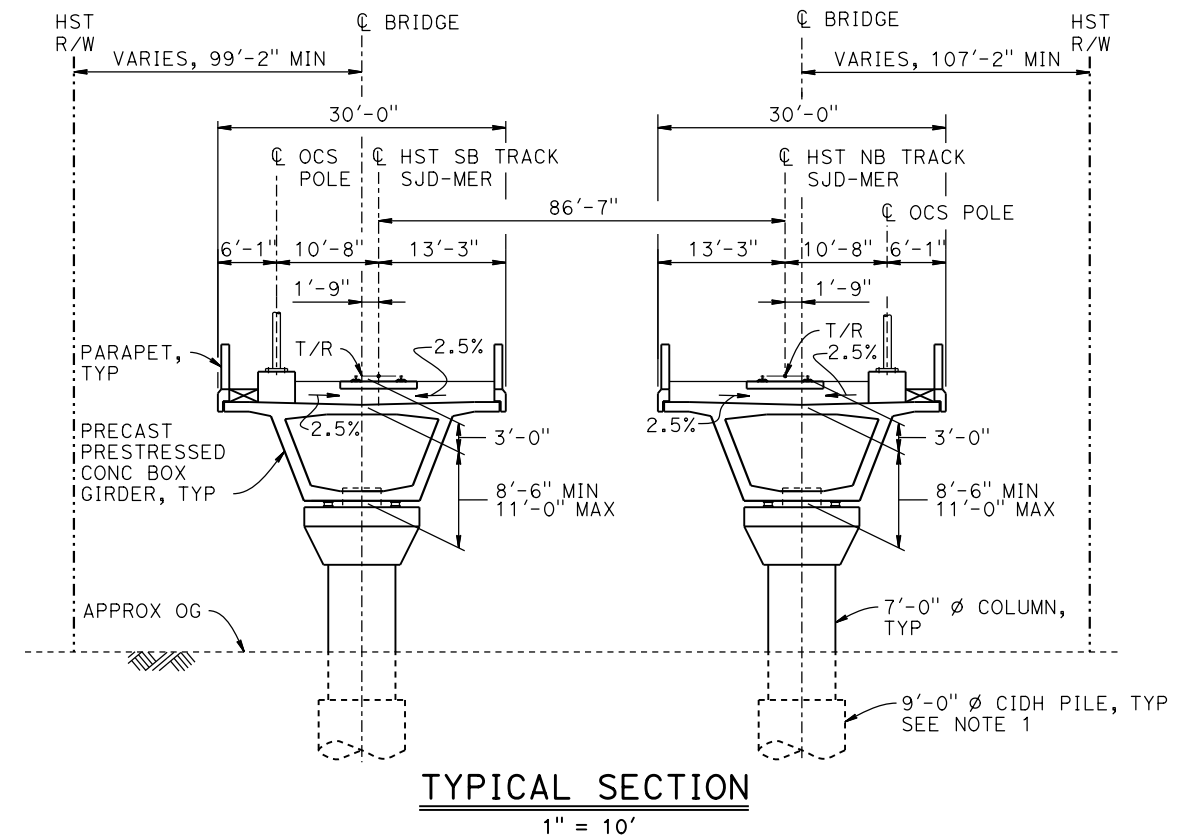
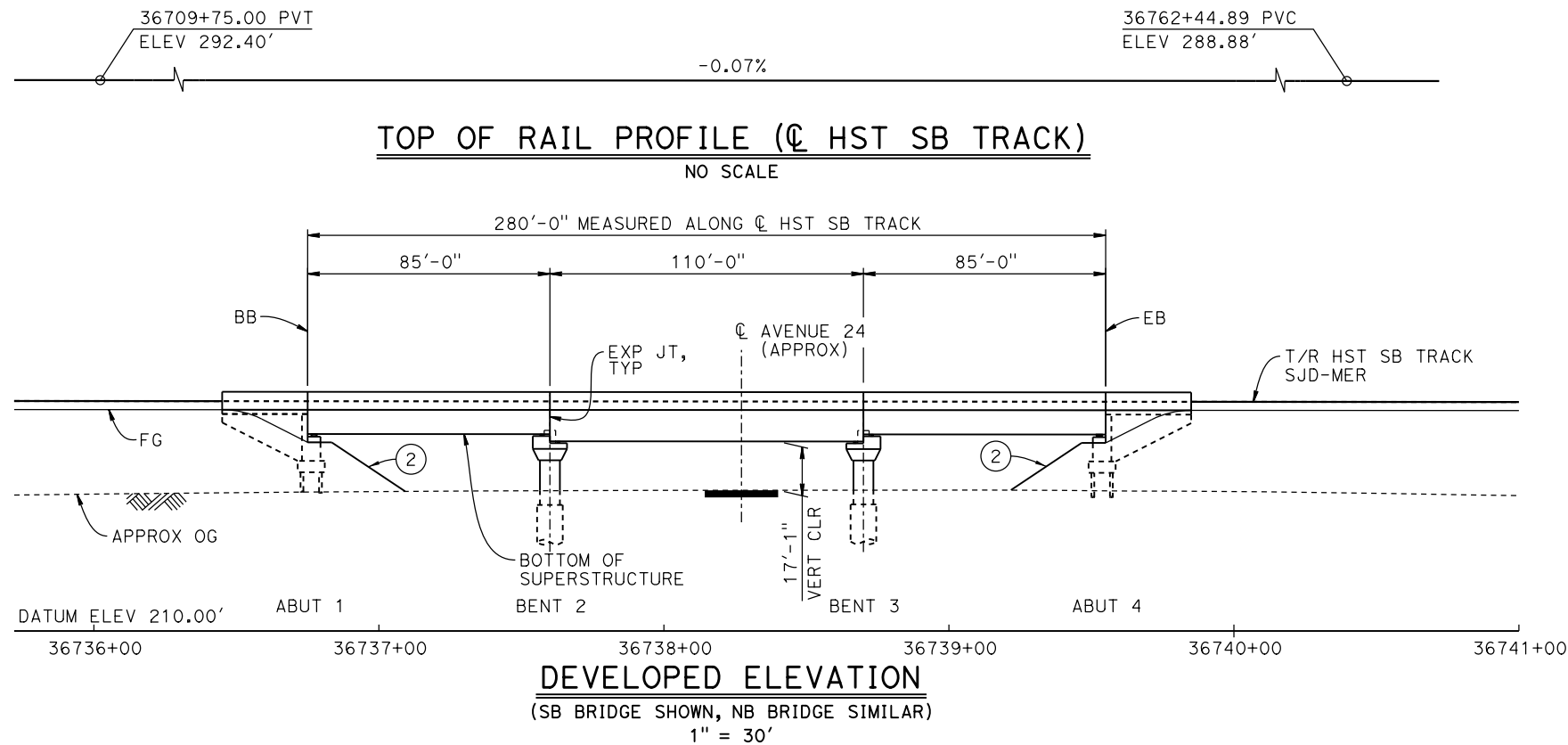
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTION (SJD-MER)
AERIAL #6 - NORTHBOUND OVER UPRR / SR 99 - 2 OF 2

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K3635-B

SCALE
AS SHOWN

SHEET NO.



CURVE SJD-MER 1 SB (A)

R = 10,300.00'
LS = 1,200.00'

CURVE SJD-MER 1 NB (B)

R = 10,386.50'
LS = 1,200.00'

LEGEND:

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

TEMPORARY TRAFFIC OPENINGS

VEHICULAR TRAFFIC

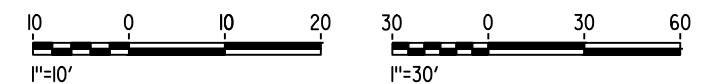
1. TRAFFIC WILL BE DETOURED AWAY FROM THE SITE.
2. TRAFFIC WILL PASS UNDER THE STRUCTURE ON:

ST OR ROAD NAME AND LOCATION	FALSEWORK OPENING REQD (HORIZ X VERT)
AVENUE 24 36736+26	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; DRAWINGS CV-S1630-B AND CV-S1640-B.
3. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1630-B AND CV-S1640-B.
4. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0058-B.



07-FEB-2015 11:07 MF-ST-K1640-B.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
02/13/2015

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

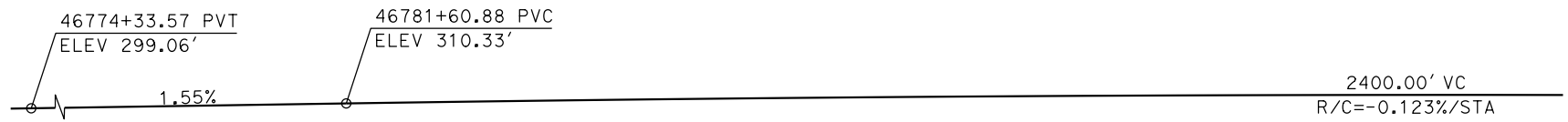
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)
AVENUE 24 UNDERPASS

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1640-B

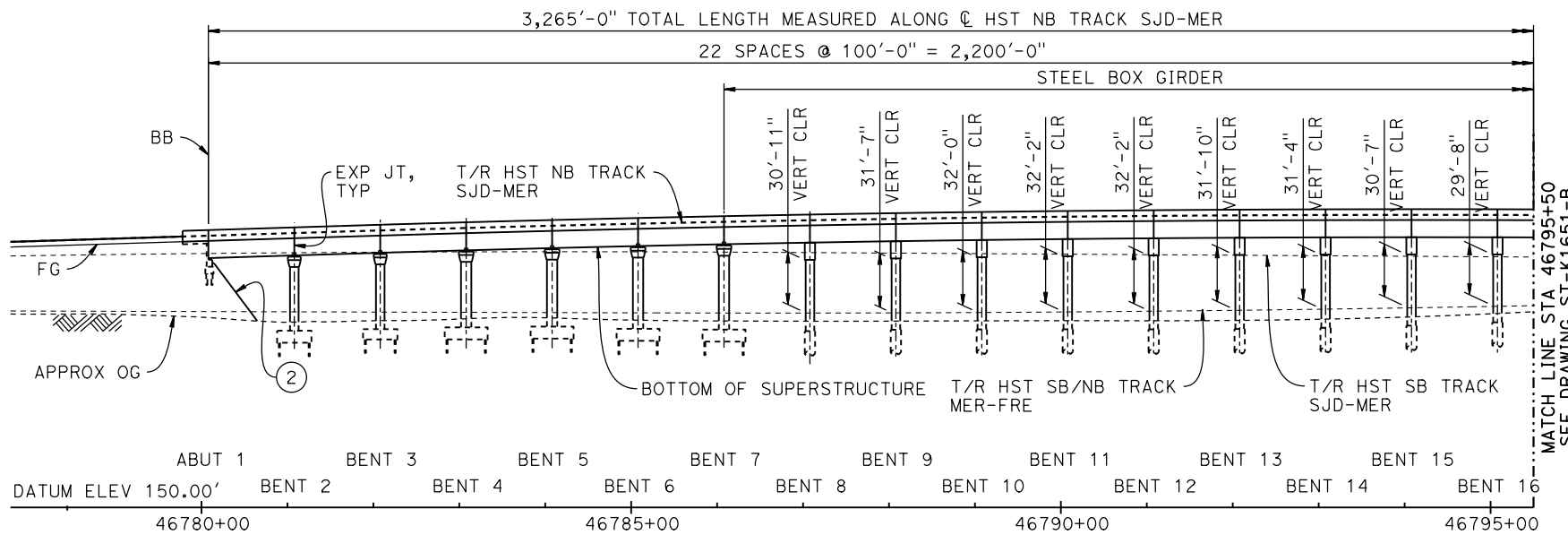
SCALE
AS SHOWN

SHEET NO.



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

NO SCALE



DEVELOPED ELEVATION

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

NOTES:

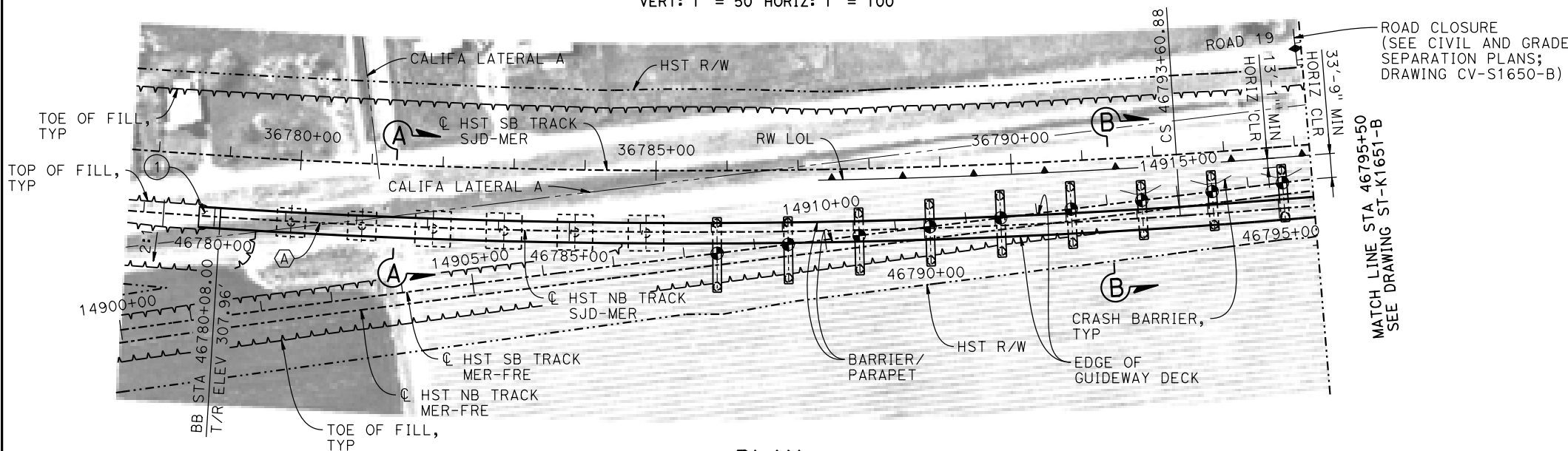
1. 16" ϕ PIPE PILES ASSUMED FOR ABUTMENT AND BENT FOUNDATIONS, UNLESS OTHERWISE NOTED. PILE LENGTHS TO BE DETERMINED.
2. FOR SECTIONS AND BENT COLUMN SCHEDULE, SEE DRAWINGS ST-K3650-B AND ST-K3651-B.
3. ANY EXISTING DIRT ROAD THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE REALIGNED.
4. FOR UTILITY DISPOSITIONS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-B AND CV-S1650-B.
5. FOR GUARDRAILS, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-B AND CV-S1650-B.
6. FOR RETAINING WALL, SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-S1640-B AND CV-S1650-B.

LEGEND:

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

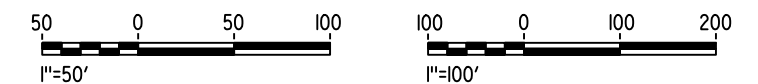
CURVE SJD-MER 1 NB (A)

R = 10,386.50'
LS = 1,200.00'



PLAN

1" = 100'



16-MAR-2016 16:23 MF-ST-K1650-B.dgn

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

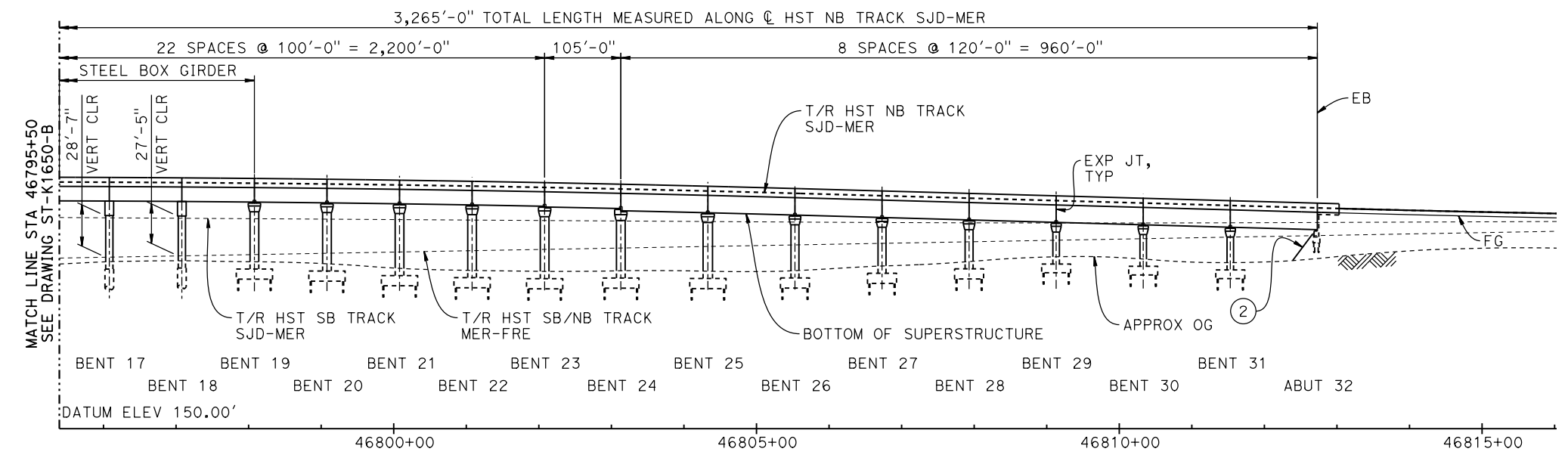
AERIAL #7 - NORTHBOUND OVER HST MERCED TO FRESNO - 1 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. ST-K1650-B
SCALE AS SHOWN
SHEET NO.



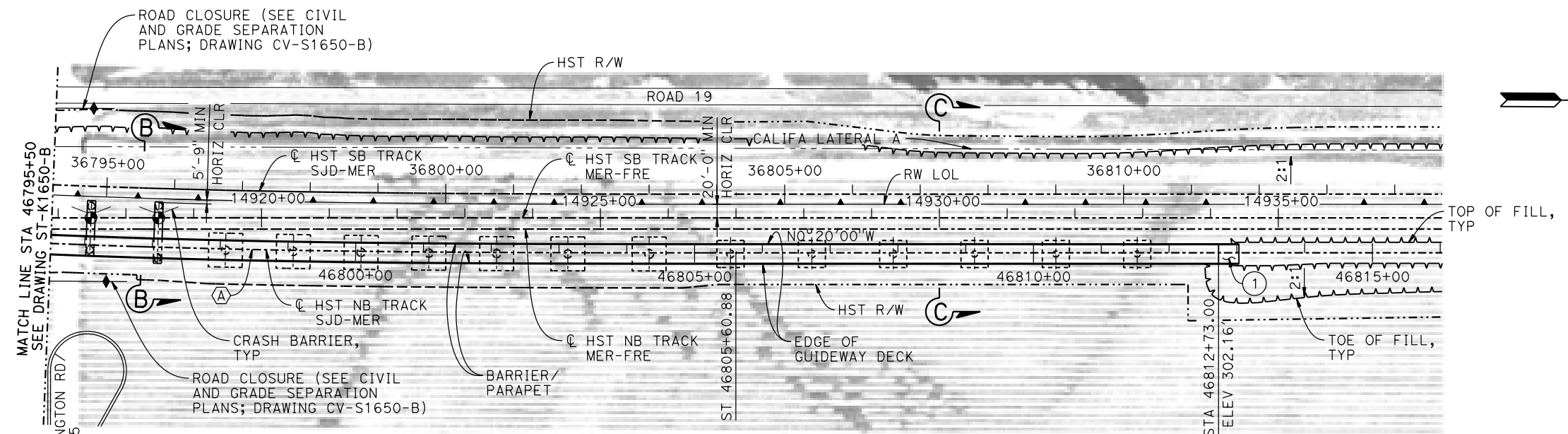
TOP OF RAIL PROFILE (C HST NB TRACK SJD-MER)

NO SCALE



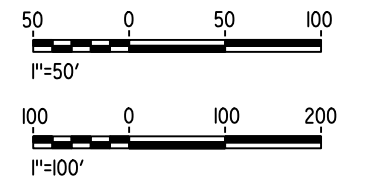
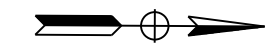
DEVELOPED ELEVATION

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



PLAN

1" = 100'



16-MAR-2016 16:23 MF-ST-K1651-B.dgn

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
GENERAL PLAN (SJD-MER)

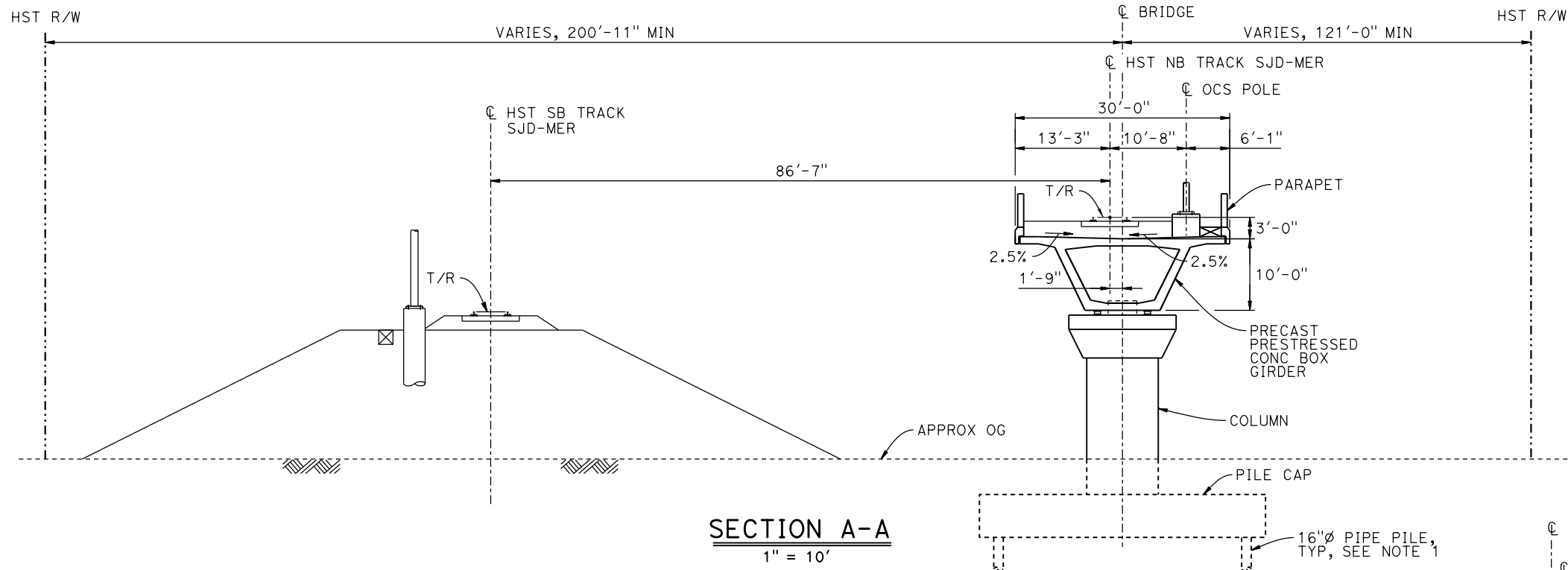
AERIAL #7 - NORTHBOUND OVER HST MERCED TO FRESNO - 2 OF 4

CONTRACT NO.
HSR08-05

DRAWING NO.
ST-K1651-B

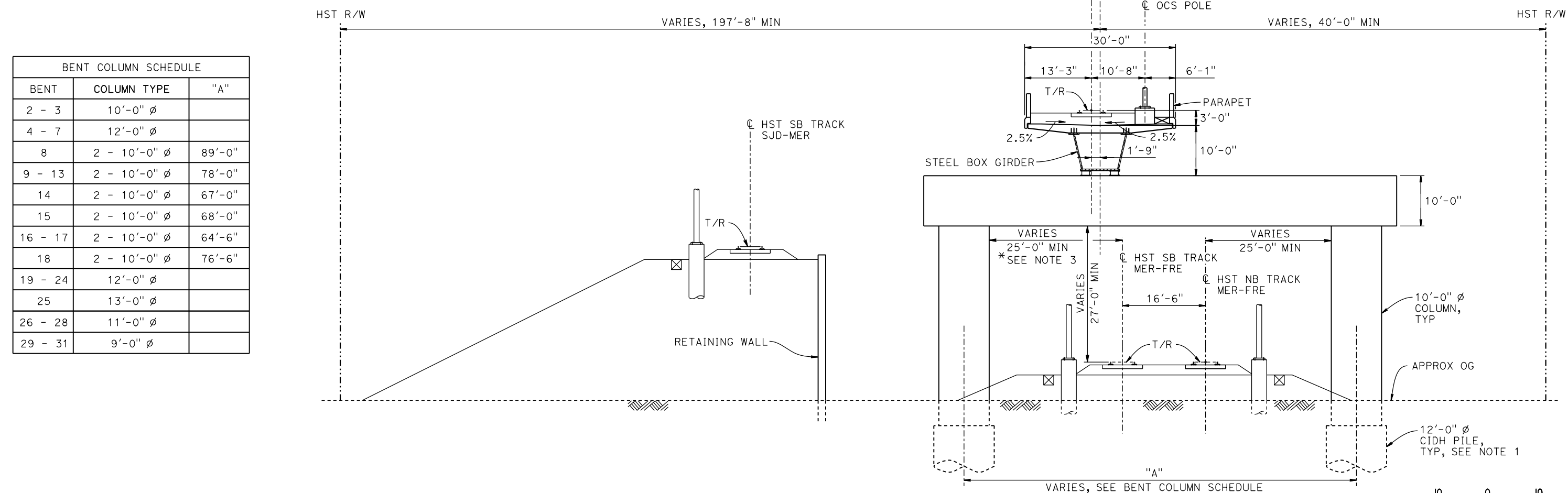
SCALE
AS SHOWN

SHEET NO.

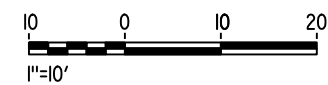


SECTION A-A
1" = 10'

- NOTES:**
1. PILE AND DRILLED SHAFT LENGTHS TO BE DETERMINED.
 2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0058-B.
 3. WHERE LESS THAN 25'-0" A CRASH WALL WILL BE IN PLACE. SEE PLAN SHEETS.



SECTION B-B
1" = 10'



BENT COLUMN SCHEDULE		
BENT	COLUMN TYPE	"A"
2 - 3	10'-0" ϕ	
4 - 7	12'-0" ϕ	
8	2 - 10'-0" ϕ	89'-0"
9 - 13	2 - 10'-0" ϕ	78'-0"
14	2 - 10'-0" ϕ	67'-0"
15	2 - 10'-0" ϕ	68'-0"
16 - 17	2 - 10'-0" ϕ	64'-6"
18	2 - 10'-0" ϕ	76'-6"
19 - 24	12'-0" ϕ	
25	13'-0" ϕ	
26 - 28	11'-0" ϕ	
29 - 31	9'-0" ϕ	

16-MAR-2016 16:24 MF-ST-K3650-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. M.

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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTIONS (SJD-MER)

AERIAL #7 - NORTHBOUND OVER HST MERCED TO FRESNO - 3 OF 4

CONTRACT NO.
HSR08-05

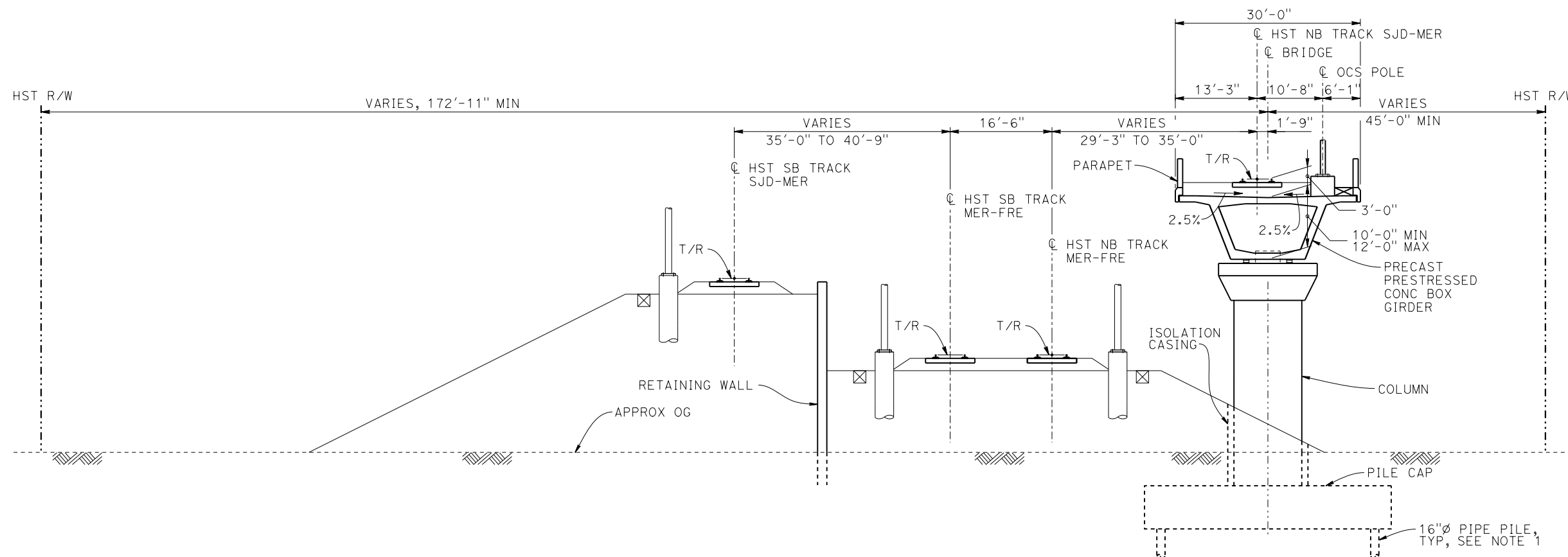
DRAWING NO.
ST-K3650-B

SCALE
AS SHOWN

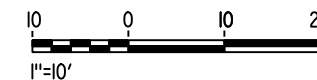
SHEET NO.

NOTES:

1. PILE LENGTHS TO BE DETERMINED.
2. FOR TRACK SUPERELEVATION DETAILS, SEE ALIGNMENT AND TYPICAL SECTION PLANS; DRAWING TT-B0058-B.



SECTION C-C
1" = 10'



16-MAR-2016 7:07 MF-ST-K3651-B.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. M.
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
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TYPICAL SECTION (SJD-MER)
AERIAL #7 - NORTHBOUND OVER HST MERCED TO FRESNO - 4 OF 4

CONTRACT NO.
HSR08-05
DRAWING NO.
ST-K3651-B
SCALE
AS SHOWN
SHEET NO.