

# CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

## Final EIR/EIS

### Fresno to Bakersfield Section

### Volume III: Alignments and Other Plans

### Section H Roadway Structure Plans

April 2014



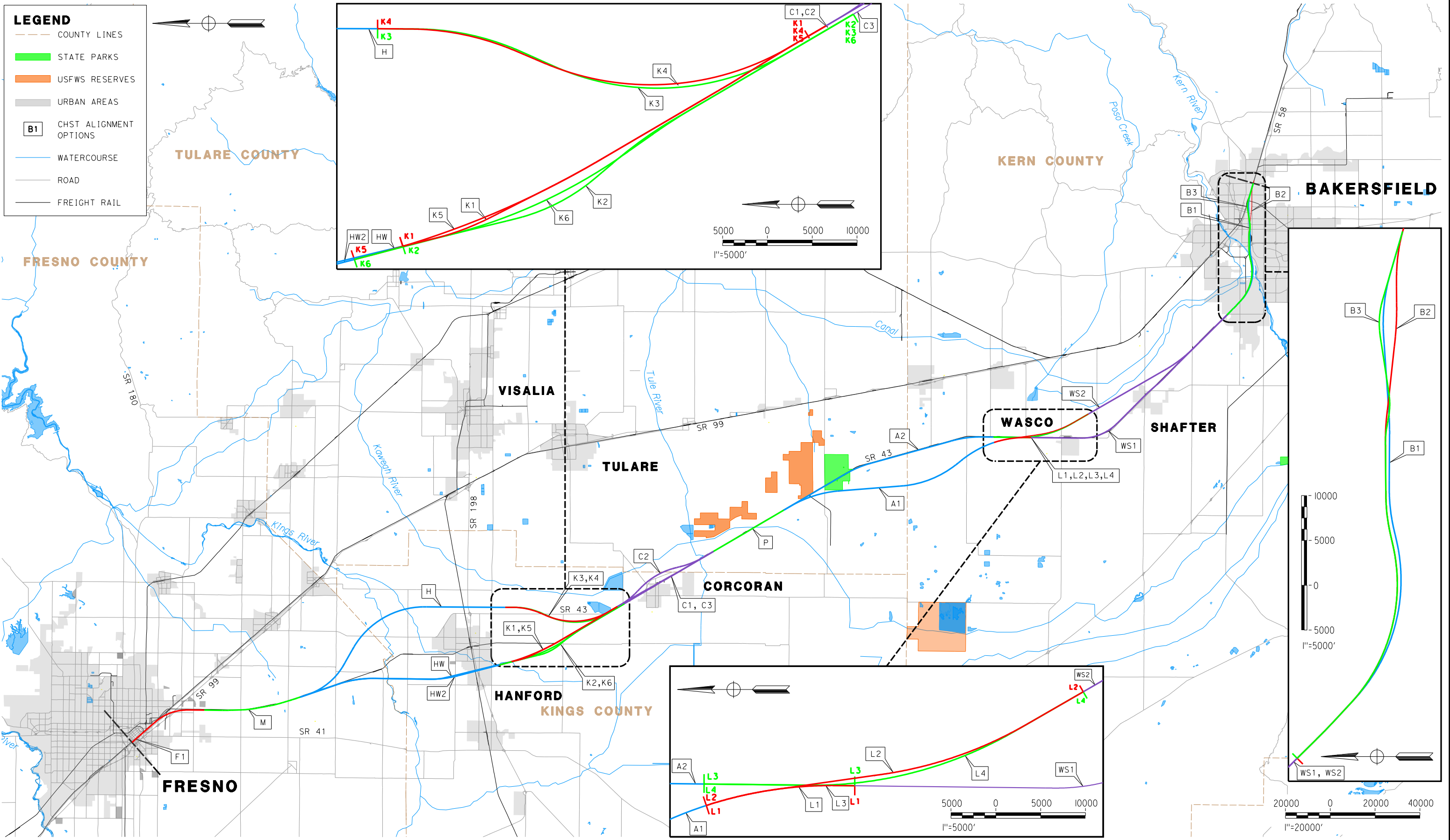
**CALIFORNIA**  
High-Speed Rail Authority



**U.S. Department of Transportation**  
Federal Railroad Administration

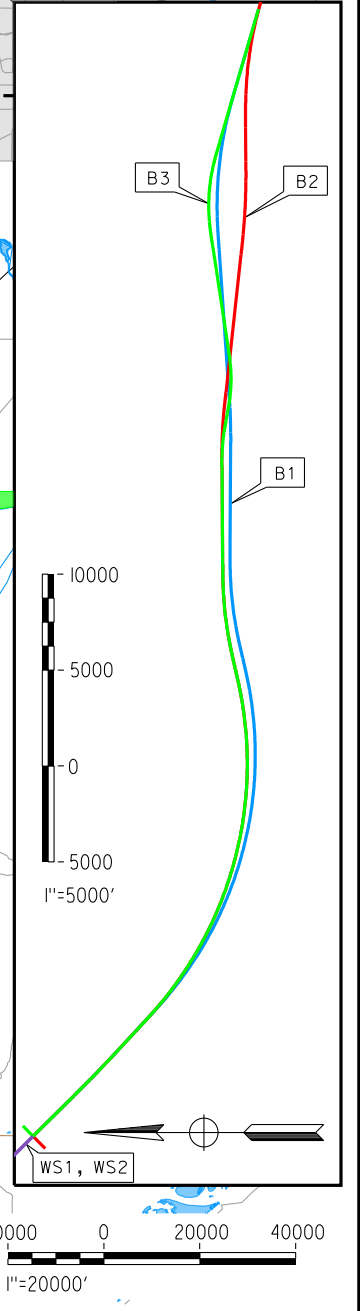
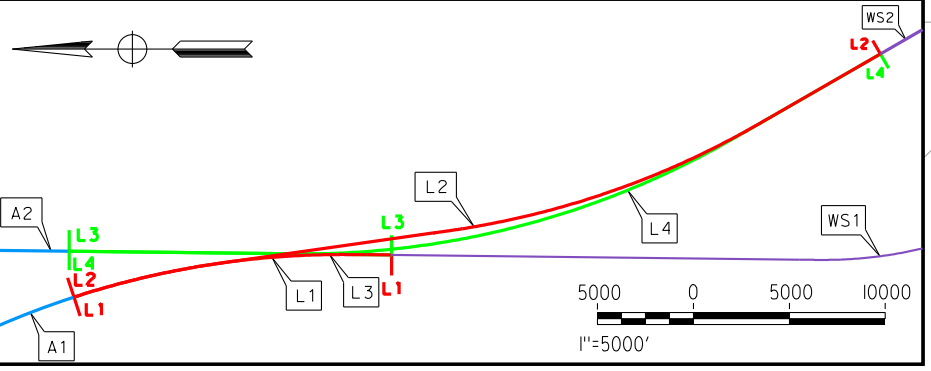
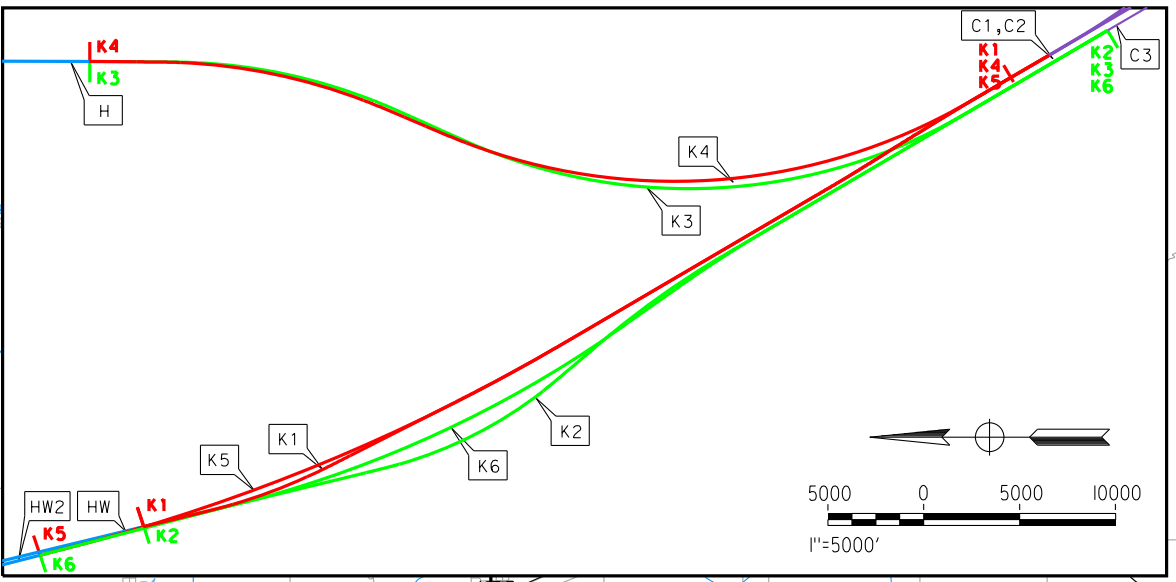


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**LEGEND**

- COUNTY LINES
- STATE PARKS
- USFWS RESERVES
- URBAN AREAS
- B1 CHST ALIGNMENT OPTIONS
- WATERCOURSE
- ROAD
- FREIGHT RAIL



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

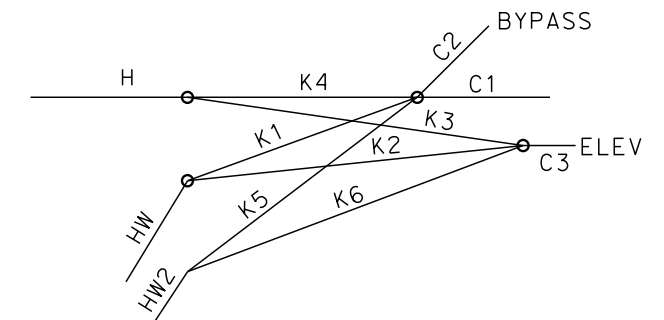


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

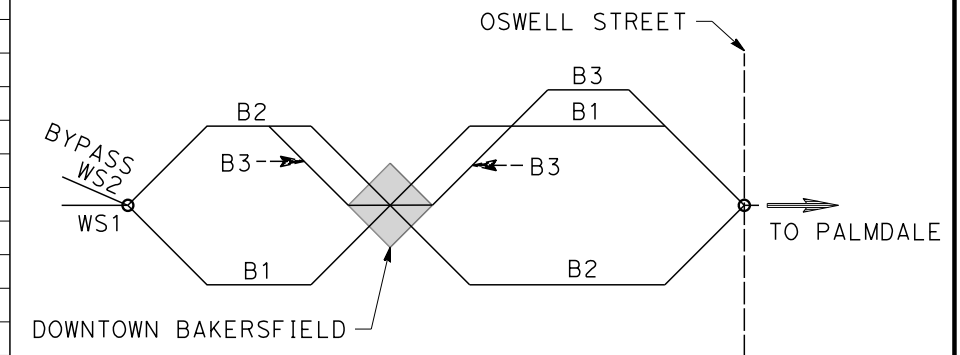
ALIGNMENT  
LOCATION MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0001  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 7

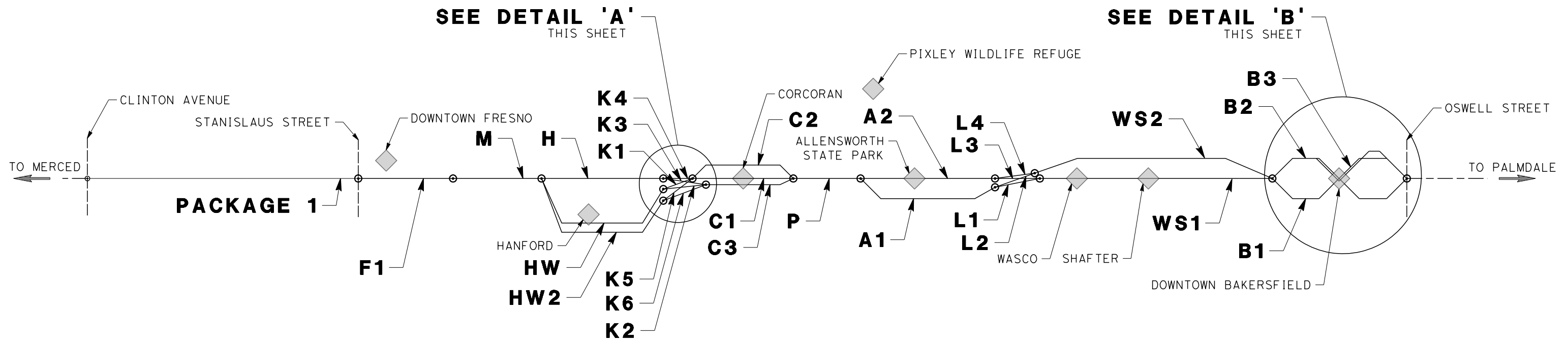
SUBSECTION CODE	NAME	LENGTH (MI)	EIR-EIS ALTERNATIVE
F1	FRESNO SUBSECTION	7.00	BNSF
M	MONMOUTH SUBSECTION	8.24	BNSF
H	HANFORD SUBSECTION	20.45	BNSF (HANFORD EAST)
HW	HANFORD WEST BYPASS SUBSECTION	18.27	HANFORD WEST BYPASS 1 & 2
HW2	HANFORD WEST BYPASS SUBSECTION	17.22	HANFORD WEST BYPASS 1 & 2 MODIFIED
K1	KAWEAH SUBSECTION	10.12	HANFORD WEST BYPASS 2 (AT-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K2	KAWEAH SUBSECTION	10.83	HANFORD WEST BYPASS 1 (AT-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K3	KAWEAH SUBSECTION	10.61	BNSF (HANFORD EAST) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K4	KAWEAH SUBSECTION	9.92	BNSF (HANFORD EAST) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K5	KAWEAH SUBSECTION	11.17	HANFORD WEST BYPASS 2 MODIFIED (BELOW-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K6	KAWEAH SUBSECTION	11.84	HANFORD WEST BYPASS 1 MODIFIED (BELOW-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
C1	CORCORAN SUBSECTION	9.36	CORCORAN ELEVATED
C2	CORCORAN BYPASS SUBSECTION	9.49	CORCORAN BYPASS
C3	CORCORAN SUBSECTION	8.74	BNSF (THROUGH CORCORAN)
P	PIXLEY SUBSECTION	6.88	BNSF
A1	ALLENSWORTH BYPASS SUBSECTION	19.05	ALLENSWORTH BYPASS
A2	THROUGH ALLENSWORTH SUBSECTION	19.03	BNSF (THROUGH ALLENSWORTH)
L1	POSO CREEK SUBSECTION	3.18	ALLENSWORTH BYPASS (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L2	POSO CREEK SUBSECTION	8.41	ALLENSWORTH BYPASS (CONNECTS TO WASCO-SHAFTER BYPASS)
L3	POSO CREEK SUBSECTION	3.18	BNSF (THROUGH ALLENSWORTH) (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L4	POSO CREEK SUBSECTION	8.43	BNSF (THROUGH ALLENSWORTH) (CONNECTS TO WASCO-SHAFTER BYPASS)
WS1	THROUGH WASCO-SHAFTER SUBSECTION	20.63	BNSF (THROUGH WASCO-SHAFTER)
WS2	WASCO-SHAFTER BYPASS SUBSECTION	14.49	WASCO-SHAFTER BYPASS
B1	BAKERSFIELD URBAN SUBSECTION	11.95	BNSF (BAKERSFIELD NORTH)
B2	BAKERSFIELD URBAN SUBSECTION	11.88	BAKERSFIELD SOUTH
B3	BAKERSFIELD URBAN SUBSECTION	11.95	BAKERSFIELD HYBRID



**DETAIL 'A'**



**DETAIL 'B'**



\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALIGNMENT  
ALIGNMENT SUBSECTION DIAGRAM

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0002  
SCALE  
NTS  
SHEET NO.  
2 OF 7

### GENERAL SHEETS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0001	ALIGNMENT - LOCATION MAP	SHEET 1 OF 7	1
CB0002	ALIGNMENT - ALIGNMENT SUBSECTIONS DIAGRAM	SHEET 2 OF 7	
SB2020	ROADWAY STRUCTURES - INDEX OF SHEETS - SHEET 1 OF 3	SHEET 3 OF 7	
SB2021	ROADWAY STRUCTURES - INDEX OF SHEETS - SHEET 2 OF 3	SHEET 4 OF 7	
SB2022	ROADWAY STRUCTURES - INDEX OF SHEETS - SHEET 3 OF 3	SHEET 5 OF 7	
CB0010	GENERAL - ABBREVIATIONS & LEGENDS - SHEET 1 OF 2	SHEET 6 OF 7	
CB0011	GENERAL - ABBREVIATIONS & LEGENDS - SHEET 2 OF 2	SHEET 7 OF 7	

### ALIGNMENT F1 - FRESNO SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0040	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 13	1
ST2011	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - STANISLAUS ST	SHEET 2 OF 13	
ST2012	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - STANISLAUS ST	SHEET 3 OF 13	
ST2015	FRESNO SUBSECTION - ALIGNMENT F1 - UNDERPASS PLANNING STUDY - G ST / FRESNO ST	SHEET 4 OF 13	
ST2018	FRESNO SUBSECTION - ALIGNMENT F1 - UNDERPASS PLANNING STUDY - G ST / TULARE ST	SHEET 5 OF 13	
ST2021	FRESNO SUBSECTION - ALIGNMENT F2 - UNDERPASS PLANNING STUDY - VENTURA ST	SHEET 6 OF 13	
ST2022	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - E CHURCH AVE	SHEET 7 OF 13	
ST2023	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - E CHURCH AVE	SHEET 8 OF 13	
ST2024	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - EAST AVE	SHEET 9 OF 13	
ST2025	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - E CENTRAL AVE	SHEET 10 OF 13	
ST2028	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - E AMERICAN AVE	SHEET 11 OF 13	
ST2051	FRESNO SUBSECTION - ALIGNMENT F1 - PEDESTRIAN PLANNING STUDY - STANISLAUS ST	SHEET 12 OF 13	
ST2052	FRESNO SUBSECTION - ALIGNMENT F1 - PEDESTRIAN PLANNING STUDY - STANISLAUS ST	SHEET 13 OF 13	

### ALIGNMENT M - MONMOUTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0049	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 9	1
ST2101	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E LINCOLN AVE	SHEET 2 OF 9	
ST2103	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E ADAMS AVE	SHEET 3 OF 9	
ST2104	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E SOUTH AVE	SHEET 4 OF 9	
ST2106	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E MANNING AVE	SHEET 5 OF 9	
ST2107	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E MANNING AVE	SHEET 6 OF 9	
ST2109	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E FLORAL AVE	SHEET 7 OF 9	
ST2111	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E NEBRASKA AVE	SHEET 8 OF 9	
ST2113	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E MOUNTAIN VIEW AVE	SHEET 9 OF 9	

### ALIGNMENT H - HANFORD SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0050	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 14	1
ST2117	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - S CLOVIS AVE	SHEET 2 OF 14	
ST2119	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - E ELKHORN AVE	SHEET 3 OF 14	
ST2121	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - S FOWLER AVE	SHEET 4 OF 14	
ST2123	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - E DAVIS AVE	SHEET 5 OF 14	
ST2129	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - DOVER AVE	SHEET 6 OF 14	
ST2133	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - EXCELSIOR AVE	SHEET 7 OF 14	
ST2135	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - ELDER AVE	SHEET 8 OF 14	
ST2137	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - FLINT AVE	SHEET 9 OF 14	
ST2139	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - FARGO AVE	SHEET 10 OF 14	
ST2143	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - HANFORD ARMONA RD	SHEET 11 OF 14	
ST2145	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - HOUSTON AVE	SHEET 12 OF 14	
ST2146	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - HOUSTON AVE	SHEET 13 OF 14	
ST2147	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - IONA AVE	SHEET 14 OF 14	

### ALIGNMENT HW - HANFORD WEST BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0055	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 10	1
ST2300	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - E ELKHORN AVE	SHEET 2 OF 10	
ST2301	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - EXCELSIOR AVE	SHEET 3 OF 10	
ST2302	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - FLINT AVE	SHEET 4 OF 10	
ST2303	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - FARGO AVE	SHEET 5 OF 10	
ST2306	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - OVERHEAD PLANNING STUDY - GLENDALE AVE	SHEET 6 OF 10	
ST2308	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - OVERHEAD PLANNING STUDY - STATE ROUTE 198	SHEET 7 OF 10	
ST2310	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - OVERHEAD PLANNING STUDY - HANFORD ARMONA RD	SHEET 8 OF 10	
ST2312	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - HOUSTON AVE	SHEET 9 OF 10	
ST2313	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - IONA AVE	SHEET 10 OF 10	

### ALIGNMENT HW2 - HANFORD WEST BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0054	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 11	1
ST2350	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - ELK HORN AVE	SHEET 2 OF 11	
ST2351	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - EXCELSIOR AVE	SHEET 3 OF 11	
ST2352	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - FLINT AVE	SHEET 4 OF 11	
ST2353	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - FARGO AVE	SHEET 5 OF 11	
ST2354	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - W LACEY BLVD	SHEET 6 OF 11	
ST2355	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - 13TH AVE	SHEET 7 OF 11	
ST2356	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - GLENDALE AVE	SHEET 8 OF 11	
ST2357	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - STATE ROUTE 198	SHEET 9 OF 11	
ST2358	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - HANFORD ARMONA RD	SHEET 10 OF 11	
ST2359	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - HOUSTON AVE	SHEET 11 OF 11	

\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
 DRAWN BY  
**J. VALENZUELA**  
 CHECKED BY  
**P. TONKIN**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

**RECORD SET 15%  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 ROADWAY STRUCTURES  
 INDEX OF SHEETS  
 SHEET 1 OF 3

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 SB2020  
 SCALE  
 NO SCALE  
 SHEET NO.  
 3 OF 7

### ALIGNMENT K1 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0056	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 5	1
ST2320	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 2 OF 5	
ST2321	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 3 OF 5	
ST2322	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 4 OF 5	
ST2323	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 5 OF 5	

### ALIGNMENT K2 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0057	KAWEAH SUBSECTION - ALIGNMENT K2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 4	1
ST2330	KAWEAH SUBSECTION - ALIGNMENT K2 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 2 OF 4	
ST2331	KAWEAH SUBSECTION - ALIGNMENT K2 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 3 OF 4	
ST2332	KAWEAH SUBSECTION - ALIGNMENT K2 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 4 OF 4	

### ALIGNMENT K3 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0060	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 6	1
ST2201	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - IDAHO AVE	SHEET 2 OF 6	
ST2203	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 3 OF 6	
ST2207	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - KENT AVE	SHEET 4 OF 6	
ST2209	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 5 OF 6	
ST2211	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 6 OF 6	

### ALIGNMENT K4 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0065	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 5	1
ST2200	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - IDAHO AVE	SHEET 2 OF 5	
ST2222	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 3 OF 5	
ST2226	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - KENT AVE	SHEET 4 OF 5	
ST2228	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 5 OF 5	

### ALIGNMENT K5 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0066	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 7	1
ST2250	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - IONA AVE	SHEET 2 OF 7	
ST2251	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 3 OF 7	
ST2252	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 4 OF 7	
ST2253	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 5 OF 7	
ST2254	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 6 OF 7	
ST2255	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 7 OF 7	

### ALIGNMENT K6 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0067	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 7	1
ST2260	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - IONA AVE	SHEET 2 OF 7	
ST2261	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 3 OF 7	
ST2262	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 4 OF 7	
ST2263	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 5 OF 7	
ST2264	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 6 OF 7	
ST2265	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 7 OF 7	

### ALIGNMENT C1 - CORCORAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0070	CORCORAN SUBSECTION - ALIGNMENT C1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 3	1
ST2230	CORCORAN SUBSECTION - ALIGNMENT C1 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 2 OF 3	
ST2232	CORCORAN SUBSECTION - ALIGNMENT C1 - OVERHEAD PLANNING STUDY - AVE 144	SHEET 3 OF 3	

### ALIGNMENT C2 - CORCORAN BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0075	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 3	1
ST2239	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 2 OF 3	
ST2244	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - OVERHEAD PLANNING STUDY - CORCORAN HWY	SHEET 3 OF 3	

### ALIGNMENT C3 - CORCORAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0080	CORCORAN SUBSECTION - ALIGNMENT C3 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 4	1
ST2271	CORCORAN SUBSECTION - ALIGNMENT C3 - OVERHEAD PLANNING STUDY - CHARLES ST	SHEET 2 OF 4	
ST2281	CORCORAN SUBSECTION - ALIGNMENT C3 - OVERHEAD PLANNING STUDY - AVE 148	SHEET 3 OF 4	
ST2282	CORCORAN SUBSECTION - ALIGNMENT C3 - OVERHEAD PLANNING STUDY - AVE 148	SHEET 4 OF 4	

### ALIGNMENT P - PIXLEY SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0090	PIXLEY SUBSECTION - ALIGNMENT P - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 5	1
ST2401	PIXLEY SUBSECTION - ALIGNMENT P - OVERHEAD PLANNING STUDY - AVE 128	SHEET 2 OF 5	
ST2411	PIXLEY SUBSECTION - ALIGNMENT P - OVERHEAD PLANNING STUDY - HESSE AVE	SHEET 3 OF 5	
ST2421	PIXLEY SUBSECTION - ALIGNMENT P - OVERHEAD PLANNING STUDY - AVE 112	SHEET 4 OF 5	
ST2431	PIXLEY SUBSECTION - ALIGNMENT P - OVERHEAD PLANNING STUDY - AVE 88	SHEET 5 OF 5	

### ALIGNMENT A1 - ALLENSWORTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0100	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 5	1
ST2501	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - OVERHEAD PLANNING STUDY - COUNTY RD J22	SHEET 2 OF 5	
ST2511	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - OVERHEAD PLANNING STUDY - GARCES HWY	SHEET 3 OF 5	
ST2521	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - OVERHEAD PLANNING STUDY - POND RD	SHEET 4 OF 5	
ST2531	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - OVERHEAD PLANNING STUDY - PETERSON RD	SHEET 5 OF 5	

### ALIGNMENT A2 - ALLENSWORTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0110	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 6	1
ST2601	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - OVERHEAD PLANNING STUDY - COUNTY RD J22	SHEET 2 OF 6	
ST2611	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - OVERHEAD PLANNING STUDY - AVE 24	SHEET 3 OF 6	
ST2621	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - OVERHEAD PLANNING STUDY - GARCES HWY	SHEET 4 OF 6	
ST2631	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - OVERHEAD PLANNING STUDY - SCHUSTER RD	SHEET 5 OF 6	
ST2641	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - OVERHEAD PLANNING STUDY - PETERSON RD	SHEET 6 OF 6	

\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
 DRAWN BY  
**J. VALENZUELA**  
 CHECKED BY  
**P. TONKIN**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 ROADWAY STRUCTURES  
 INDEX OF SHEETS  
 SHEET 2 OF 3

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 SB2021  
 SCALE  
 NO SCALE  
 SHEET NO.  
 4 OF 7

### ALIGNMENT L2 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0130	POSO CREEK SUBSECTION - ALIGNMENT L2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 2	1
ST2751	POSO CREEK SUBSECTION - ALIGNMENT L2 - OVERHEAD PLANNING STUDY - STATE ROUTE 46	SHEET 2 OF 2	

### ALIGNMENT L4 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0150	POSO CREEK SUBSECTION - ALIGNMENT L4 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 2	1
ST2851	POSO CREEK SUBSECTION - ALIGNMENT L4 - OVERHEAD PLANNING STUDY - STATE ROUTE 46	SHEET 2 OF 2	

### ALIGNMENT WS1 - WASCO-SHAFTER SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0170	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 14	1
ST2900	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - McCOMBS AVE	SHEET 2 OF 14	
ST2911	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - MERCED AVE	SHEET 3 OF 14	
ST2912	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - MERCED AVE	SHEET 4 OF 14	
ST2913	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - POPLAR AVE	SHEET 5 OF 14	
ST2914	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - POPLAR AVE	SHEET 6 OF 14	
ST2915	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - FRESNO AVE	SHEET 7 OF 14	
ST2926	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - BURBANK ST	SHEET 8 OF 14	
ST2927	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - BURBANK ST	SHEET 9 OF 14	
ST2917	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - 7TH STANDARD RD	SHEET 10 OF 14	
ST2918	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - TYPICAL SECTIONS - 7TH STANDARD RD	SHEET 11 OF 14	
ST2921	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - KRATZMEYER RD	SHEET 12 OF 14	
ST2922	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - KRATZMEYER RD	SHEET 13 OF 14	
ST2925	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - RENFRO RD	SHEET 14 OF 14	

### ALIGNMENT WS2 - WASCO-SHAFTER SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0180	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 11	1
ST2931	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - KIMBERLINA AVE	SHEET 2 OF 11	
ST2941	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - SHAFTER AVE	SHEET 3 OF 11	
ST2951	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - BEECH AVE	SHEET 4 OF 11	
ST2961	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - EAST LERDO HWY	SHEET 5 OF 11	
ST2963	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - CHERRY AVE	SHEET 6 OF 11	
ST2970	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - 7TH STANDARD RD	SHEET 7 OF 11	
ST2971	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - TYPICAL SECTIONS - 7TH STANDARD RD	SHEET 8 OF 11	
ST2972	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - KRATZMEYER RD	SHEET 9 OF 11	
ST2973	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - KRATZMEYER RD	SHEET 10 OF 11	
ST2976	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - RENFRO RD	SHEET 11 OF 11	

### ALIGNMENT B1 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0190	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 3	1
ST2980	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - OVERHEAD PLANNING STUDY - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 3	
ST2981	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - TYPICAL SECTIONS - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 3	

### ALIGNMENT B2 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0200	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 4	1
ST2982	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - OVERHEAD PLANNING STUDY - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 4	
ST2983	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - TYPICAL SECTIONS - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 4	
ST2986	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - OVERHEAD PLANNING STUDY - WESTSIDE PKWY/ COFFEE RD OFF RAMP	SHEET 4 OF 4	

### ALIGNMENT B3 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0210	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 4	1
ST2984	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - OVERHEAD PLANNING STUDY - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 4	
ST2985	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - TYPICAL SECTIONS - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 4	
ST2987	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - OVERHEAD PLANNING STUDY - WESTSIDE PKWY/ COFFEE RD OFF RAMP	SHEET 4 OF 4	

\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
 DRAWN BY  
**J. VALENZUELA**  
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**P. TONKIN**  
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 NO SCALE  
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 5 OF 7

A

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
ARS ACCELERATION RESPONSE SPECTRUM
AR ACCESS RESTRICTION
AS AGGREGATE SUBBASE
ASRP ALUMINUM SPIRAL RIB PIPE
ASSY ASSEMBLY
ATPB ASPHALT TREATED PERMEABLE BASE
ATPM ASPHALT TREATED PERMEABLE MATERIAL
AVE AVENUE
AVG AVERAGE
@ AT

B

BAGR BRIDGE APPROACH GUARD RAILING
BB BEGINNING OF BRIDGE
BC BEGIN HORIZONTAL CURVE
BCC BALANCED CANTILEVER CONSTRUCTION
BCR BEGIN CURB RETURN
BEG BEGIN
BIT CTD BITUMINOUS COATED
BK BACK
BKF BACKFILL
BLDG BUILDING
BLM BRIDGE-LOG MILE
BLVD BOULEVARD
BM BENCH MARK
BND BOUND
BNSF BURLINGTON NORTH & SANTA FE
BOT BOTTOM
BR BRIDGE
BRG BEARING
BTU BRITISH THERMAL UNIT
BVC BEGIN VERTICAL CURVE
BW BARBED WIRE

C

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

C CONTINUED

CHSRA CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST CALIFORNIA HIGH SPEED TRAIN
CHSR CALIFORNIA HIGH SPEED RAIL
CG CENTER OF GRAVITY
CHNL CHANNEL
CI CAST IRON
CIDH CAST-IN-DRILLED-HOLE
CIP,C-I-P CAST-IN-PLACE, CAST IRON PIPE
CIPCP CAST IN PLACE CONCRETE PIPE
CISS CAST-IN-STEEL-SHELL
CJP COMPLETE JOINT PENETRATION
CL CENTERLINE, CLASS
CL2 CLASS 2
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 CLEARANCE POINT
CR CREEK
CRCP CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP CONCRETED ROCK SLOPE PROTECTION
CS CURVE TO SPIRAL
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
CVFPB CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV CULVERT
@ CENTERLINE

D

D DEPTH
DD DOWNDRAIN, DIRECTIVE DRILLING
DBL DOUBLE
DEG DEGREE
DEL DELINEATOR
DET DETAIL, DETOUR
DF DOUGLAS FIR
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, EASTING
EA ACTUAL SUPERELEVATION
EU UNBALANCED SUPERELEVATION

E CONTINUED

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
EO EQUATION, EQUAL
ES EDGE OF SHOULDER
ETW EDGE OF TRAVELED WAY
EVC END VERTICAL CURVE
EW ENDWALL
EXC EXCAVATION
EXIST, EX. EXISTING
EXP EXPANSION
EXP JT EXPANSION JOINT
EXWY EXPRESSWAY
EXT EXTERIOR

F

F & C FRAME AND COVER
F & G FRAME AND GRATE
FB FLOOR BEAM
F-B FRESNO TO BAKERSFIELD
FDN FOUNDATION
FEBT FACING EASTBOUND TRAFFIC
FES FLARED END SECTION
FF FILTER FABRIC
FG FINISHED GRADE
FH FIRE HYDRANT
FIG FIGURE
FL FLOW LINE
FNBT FACING NORTHBOUND TRAFFIC
FOC FACE OF CONCRETE
FR RD FRONTAGE ROAD
FS FAR SIDE, FINISHED SURFACE
FSBT FACING SOUTHBOUND TRAFFIC
FT FOOT, FEET
FTG FOOTING
FWBT FACING WESTBOUND TRAFFIC
FWY FREEWAY
FPLM FULL SPAN PRECAST LAUNCHING METHOD

G

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

H

H HEIGHT
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
HST HIGH SPEED TRAIN
HSR HIGH SPEED RAIL
HW HEADWALL, HIGH WATER
HWM HIGH WATER MARK
HWY HIGHWAY

I

IB IMPORTED BORROW
ID INSIDE DIAMETER
IF INSIDE FACE
IN INCH, INCHES
INT INTERIOR
INV INVERT
IRR IRRIGATION

J

JCT JUNCTION
JP JOINT POLE
JPCP JOINTED PLAIN CONCRETE PAVEMENT
JS JUNCTION STRUCTURE
JT JOINT

K

K DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L LENGTH
LAT LATITUDE
LCB LEAN CONCRETE BASE
LN LANE
LOC LOCATION
LOL LAYOUT LINE
LONG LONGITUDE
LONGIT LONGITUDINAL
LS LENGTH OF SPIRAL
LC LENGTH OF CURVE
LT LEFT

M

MAINT MAINTENANCE
MAX MAXIMUM
MB METAL BEAM
MBB METAL BEAM BARRIER
MBGR METAL BEAM GUARD RAILING
MED MEDIAN
M-F MERCED TO FRESNO
MH MANHOLE
MIN MINIMUM
MISC MISCELLANEOUS
MISC I & S MISCELLANEOUS IRON AND STEEL
MKR MARKER
M/L MAIN LINE (RAILWAY)

M CONTINUED

MOD MODIFIED, MODIFY
MON MONUMENT
MP METAL PLATE
MPGR METAL PLATE GUARD RAILING
MPH MILES PER HOUR
MR MOVEMENT RATING
MSE MECHANICALLY STABILIZED EARTH MATERIAL
MTL MATERIAL
MSS MOVING SCAFFOLDING SYSTEM

N

N NORTH, NORTHING
NB NORTHBOUND
NO. NUMBER (MUST HAVE PERIOD)
NOS. NUMBERS (MUST HAVE PERIOD)
NPS NOMINAL PIPE SIZE
NS NEAR SIDE
NTS NOT TO SCALE
N/A NOT APPLICABLE

O

OBLR OBLITERATE
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
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
PI POINT OF INTERSECTION
PJP PARTIAL JOINT PENETRATION 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 ENDING
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

REV DATE BY CHK APP DESCRIPTION

Table with 6 columns: REV, DATE, BY, CHK, APP, DESCRIPTION. Includes revision history and design details.

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

GENERAL ABBREVIATIONS AND LEGENDS
SHEET 1 OF 2

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0010
SCALE NO SCALE
SHEET NO. 6 OF 7

**P CONTINUED**

PRF PAVEMENT REINFORCING FABRIC  
 PRVC POINT OF REVERSE VERTICAL CURVE  
 PS&E PLANS, SPECIFICATIONS AND ESTIMATES  
 PS, P/S PRESTRESSED, PARALLEL STATION  
 PSP PERFORATED STEEL PIPE  
 PT POINT OF TANGENCY  
 PVC POLYVINYL CHLORIDE  
 PVI POINT OF VERTICAL INTERSECTION  
 PVMT PAVEMENT  
 PVP MAINTENANCE VEHICLE PULLOUT

**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, ROW RIGHT OF WAY  
 RWY RAILWAY

**S**

S SOUTH, SUPPLEMENT  
 SAE STRUCTURE APPROACH EMBANKMENT  
 SALV SALVAGE  
 SAPP STRUCTURAL ALUMINUM PLATE PIPE  
 SB SOUTHBOUND  
 SC SPIRAL TO CURVE  
 SCSP SLOTTED CORRUGATED STEEL PIPE  
 SD STORM DRAIN  
 SEC SECOND  
 SECT SECTION  
 SEP SEPARATION  
 SG SUBGRADE  
 SHLD SHOULDER  
 SHT SHEET  
 SIM SIMILAR  
 S STATION LINE  
 SM SELECTED MATERIAL  
 SPEC SPECIAL, SPECIFICATIONS  
 SPP SLOTTED PLASTIC PIPE  
 SS SLOPE STAKE, SPIRAL TO SPIRAL

**S CONTINUED**

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  
 SR STATE ROUTE  
 ST STREET, SPIRAL TO TANGENT  
 STA STATION  
 STBB SINGLE THRIE BEAM BARRIER  
 STD STANDARD  
 STR STRUCTURE  
 SRS STAND ALONE RADIO SITE  
 SURF SURFACING  
 SW SIDEWALK, SOUND WALL  
 SWR SEWER  
 SWS SWITCHING STATION  
 SYM SYMMETRICAL  
 S4S SURFACE 4 SIDES  
 SJVR SAN JOAQUIN VALLEY RAILROAD

**T**

T SEMI-TANGENT  
 TAB TABLET  
 TAN TANGENT  
 TBB THRIE BEAM BARRIER  
 TBR TIMBER  
 TC TOP OF CURB, TANGENT TO CURVE  
 TCB TRAFFIC CONTROL BOX  
 TEL TELEPHONE  
 TEMP TEMPORARY  
 TG TOP OF GRADE  
 TOT TOTAL  
 TM TECHNICAL MEMORANDUM  
 TP TELEPHONE POLE  
 TPB TREATED PERMEABLE BASE  
 TPM TREATED PERMEABLE MATERIAL  
 TPSS TRACTION POWER SUPPLY STATION  
 TRANS TRANSITION, TRANSVERSE  
 TS TRAFFIC SIGNAL, TUBULAR STEEL, TANGET TO SPIRAL  
 TYP TYPICAL  
 TOR TOP OF RAIL

**U**

UC UNDERCROSSING  
 UD UNDERDRAIN  
 UON UNLESS OTHERWISE NOTED  
 UP UNDERPASS  
 UPRR UNION PACIFIC RAILROAD  
 USFWS UNITED STATES FISH AND WILDLIFE SERVICE

**V**

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

**W**

W WEST, WIDTH  
 WB WESTBOUND  
 WH WEEP HOLE  
 WM WIRE MESH  
 WS WATER SURFACE  
 WSP WELDED STEEL PIPE  
 WT WEIGHT  
 WV WATER VALVE  
 WW WINGWALL  
 WWLWL WINGWALL LAYOUT LINE  
 W/ WITH

**X**

X SEC CROSS SECTION  
 XING CROSSING

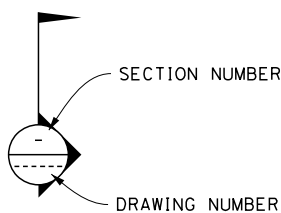
**Y**

YR YEAR  
 YRS YEARS

**GENERAL NOTES**

1. TRACK PROFILE IS DESIGNED AS TOP OF THE LOW RAIL. VERTICAL CLEARANCE REQUIREMENTS ARE MEASURED FROM THE TOP OF THE HIGH RAIL ON SUPERELEVATED TRACK. THE CLEARANCE ENVELOPES SHOWN DEMONSTRATE THE MINIMUM CLEARANCE REQUIREMENTS.
2. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN. FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES.
3. THE FOLLOWING ARE ROADWAY DESIGN STANDARDS AND GUIDELINES:
  - A. CALTRANS HIGHWAY DESIGN MANUAL (2012)
  - B. AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2011)
  - C. AASHTO ROADSIDE DESIGN GUIDE (2011)
  - D. APPLICABLE LOCAL DESIGN STANDARD AND GUIDELINES (I.E., CITY OF FRESNO)
4. THE FEMA FLOODPLAIN BOUNDARIES ARE CALLED OUT AS "LIMIT OF 100YR FEMA FLOODPLAIN". THE LIMITS OF THE MODELED 100 YEAR WATER SURFACE ELEVATIONS (WSE) ARE APPROXIMATE AND ARE MARKED WITH THE NAME OF THE WATERBODY ASSOCIATED WITH THE MODELED FLOODING, E.G. "LIMIT OF POSO CREEK FLOODPLAIN".
5. THE STRUCTURE DESIGN ASSUMES THAT THE DEPTH FROM TOR TO TOP OF DECK IS 2'-6" THROUGHOUT. HOWEVER, WHERE BALLASTED TRACK FORM IS USED, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-9" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE, AND PROTECTION LAYER IF REQUIRED. FOR SLAB TRACKFORM, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-6" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE AND PROTECTION LAYER IF REQUIRED.
6. WHERE THE VERTICAL ALIGNMENT GRADE IS LESS THAN 0.5% THE UPPER SURFACE OF THE VIADUCT STRUCTURE SHALL BE PROFILED TO GIVE A MINIMUM LONGITUDINAL FALL OF 0.5%. TYPICALLY FOR A SPAN OF 120'-00" ON A 0% GRADE SECTION OF VIADUCT THIS COULD BE ACHIEVED BY MODIFYING THE CROSS SLOPE OF THE GIRDER LINEARLY BETWEEN 0.8% AT MID-SPAN TO 2% AT EACH END.
7. WHEN LATERAL SEPARATION BETWEEN THE CONVENTIONAL RAILROAD AND HST SYSTEM IS LESS THAN 102', A SITE SPECIFIC HAZARD ANALYSIS WILL BE CONDUCTED TO DETERMINE WHAT SPECIFIC COLLISION PROTECTION MEASURES MAY NEED TO BE IMPLEMENTED.
8. RIP-RAP PROTECTION IS REQUIRED FOR EMBANKMENTS WITHIN FEMA SPECIAL FLOOD HAZARD ZONES, IN ACCORDANCE WITH DESIGN CRITERIA.
9. HST ALIGNMENT CONTROL LINE IS DESIGNED AS THE CENTERLINE BETWEEN THE TWO MAINLINE TRACKS.
10. TRACK FORM USED IN TYPICAL SECTIONS IS INDICATIVE.

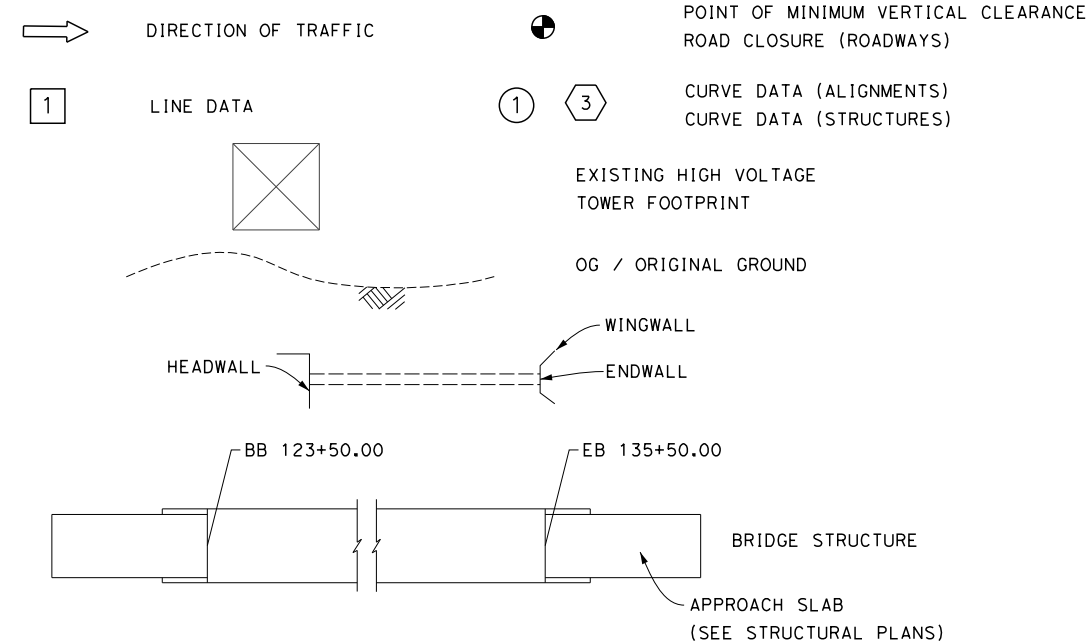
**LEGEND**



- E--- PROPOSED ELECTRICITY LINE
- e--- EXISTING ELECTRICITY LINE
- e---(oh)--- EXISTING OVERHEAD ELECTRICITY LINE
- E---(oh)--- PROPOSED OVERHEAD ELECTRICITY LINE
- PROPOSED HST RIGHT OF WAY
- PROPOSED HST TRACK CENTERLINE
- ▲▲▲ RETAINING WALL
- TOE OF SLOPE / TOP OF CUT

CONTROL LINE EXAMPLE "A" LINE  
 255+00 260+00 265+00

- TRACK (PLAN AND ELEVATION)
- TRACK TO BE REMOVED AND RELOCATED PER BNSF
- REMOVE BASE & SURFACING
- SOUND BARRIER (POTENTIAL)
- DIRECTION OF FLOW
- WATER SURFACE



\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
 DRAWN BY  
P. TONKIN  
 CHECKED BY  
D. HUNT  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

**RECORD SET 15%  
 DESIGN SUBMISSION**  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 GENERAL  
 ABBREVIATIONS AND LEGENDS  
 SHEET 2 OF 2

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB0011  
 SCALE  
NO SCALE  
 SHEET NO.  
7 OF 7



12/30/2013 3:14:11 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-SB-0040-F1.dgn



**LEGEND**  
 ---+--- EXISTING FREIGHT RAILROAD  
 ——— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH  
 DRAWN BY  
D. BARNHART  
 CHECKED BY  
B. LUSCOMBE  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

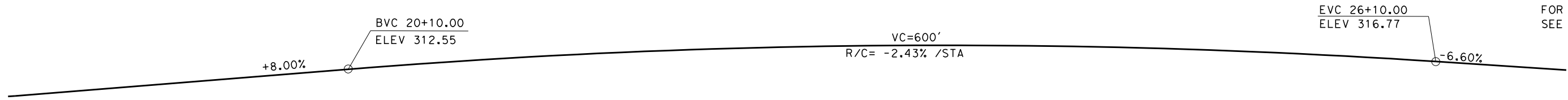
**RECORD SET 15%  
 DESIGN SUBMISSION**  
 NOT FOR  
 CONSTRUCTION



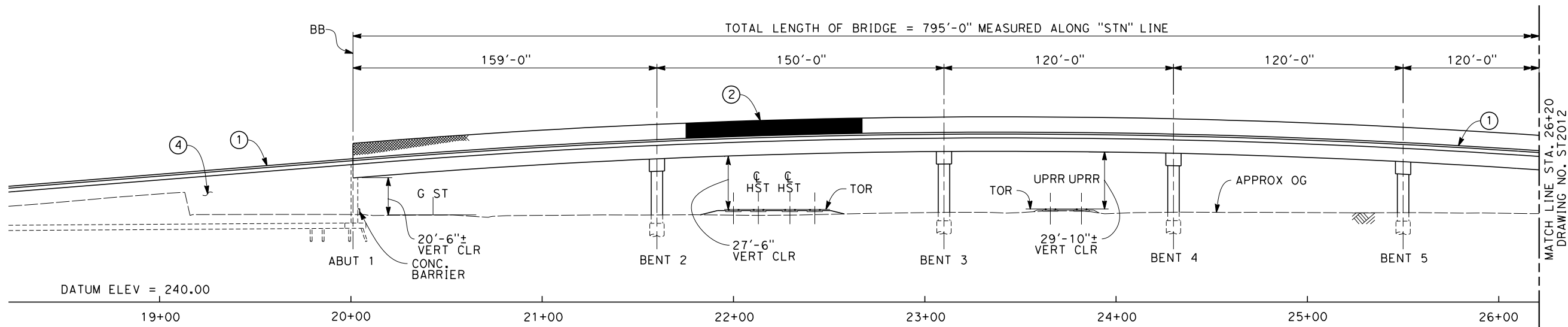
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 FRESNO SUBSECTION  
 ALIGNMENT F1  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
SB0040  
 SCALE  
AS SHOWN  
 SHEET NO.  
1 OF 13

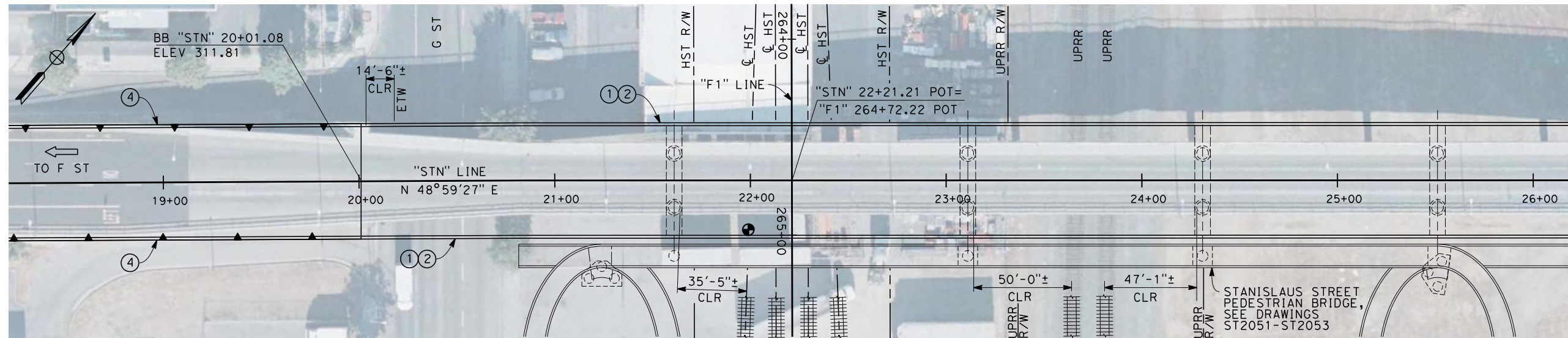
FOR NOTES AND LEGEND,  
SEE SHEET ST2012



**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



12/30/2013 3:01:35 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2011-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

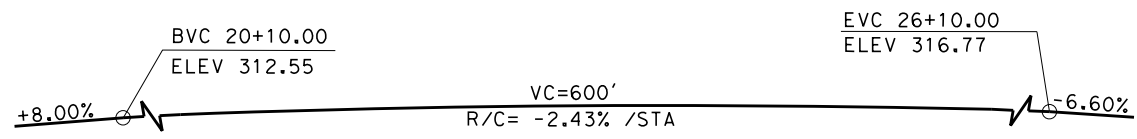
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

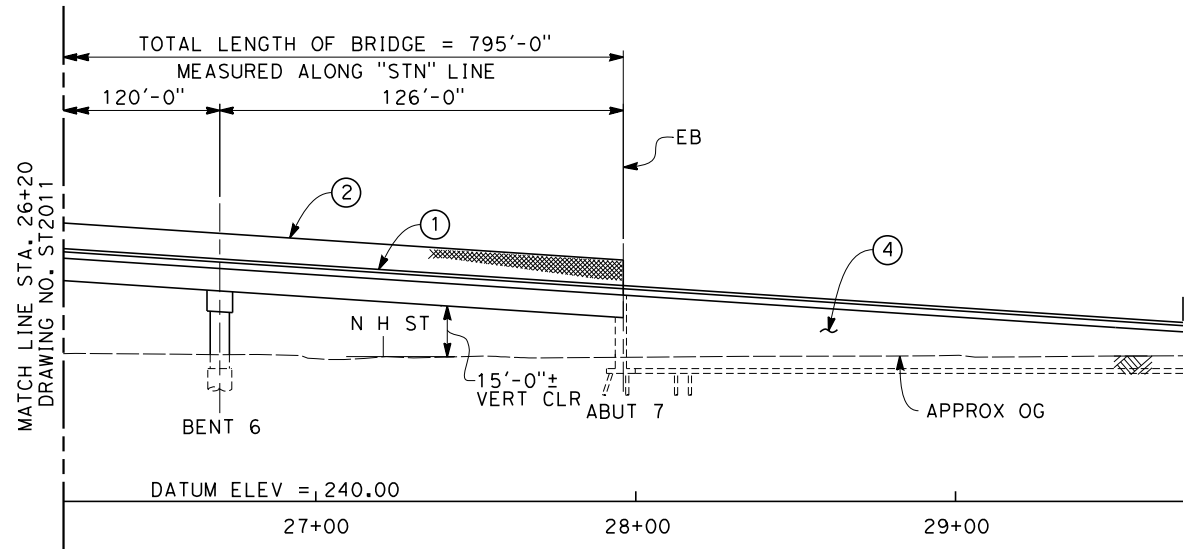


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
FRESNO SUBSECTION  
ALIGNMENT F1  
OVERHEAD PLANNING STUDY  
STANISLAUS ST

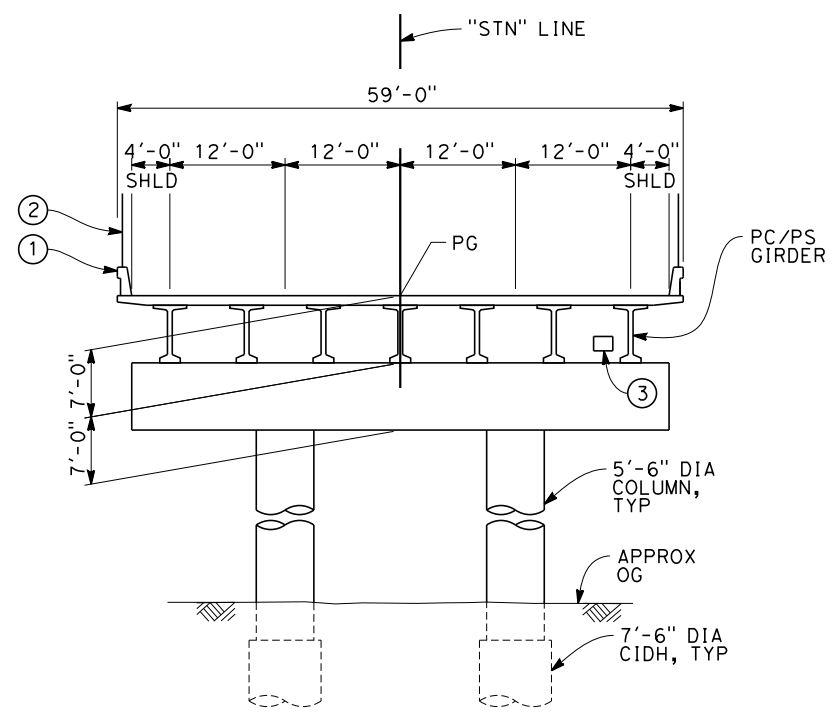
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HSR 06-0003  
DRAWING NO.  
ST2011  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 13



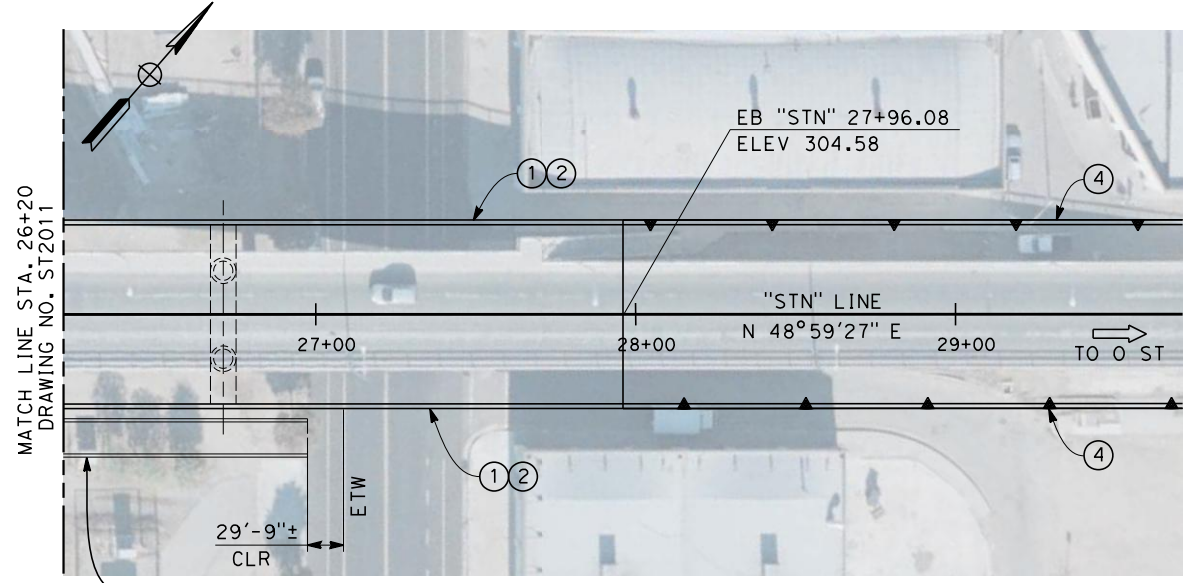
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**SECTION A**  
SCALE: 1"=10'



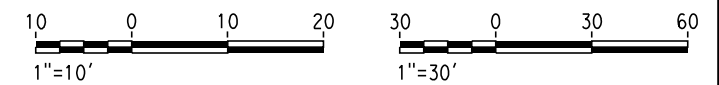
**PLAN**  
SCALE: 1"=30'

**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ RETAINING WALL W/ BARRIER



12/30/2013 3:02:25 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2012-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. SMITH
DRAWN BY D. BARNHART
CHECKED BY E. MORAN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

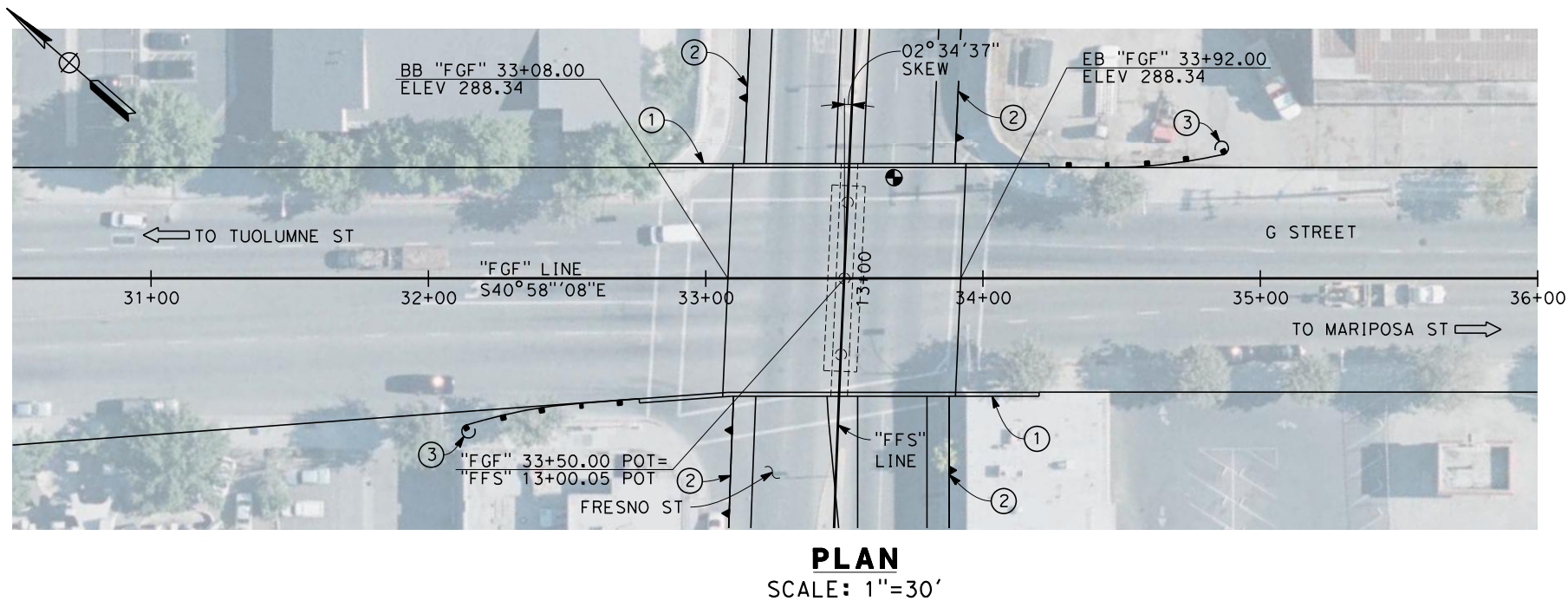
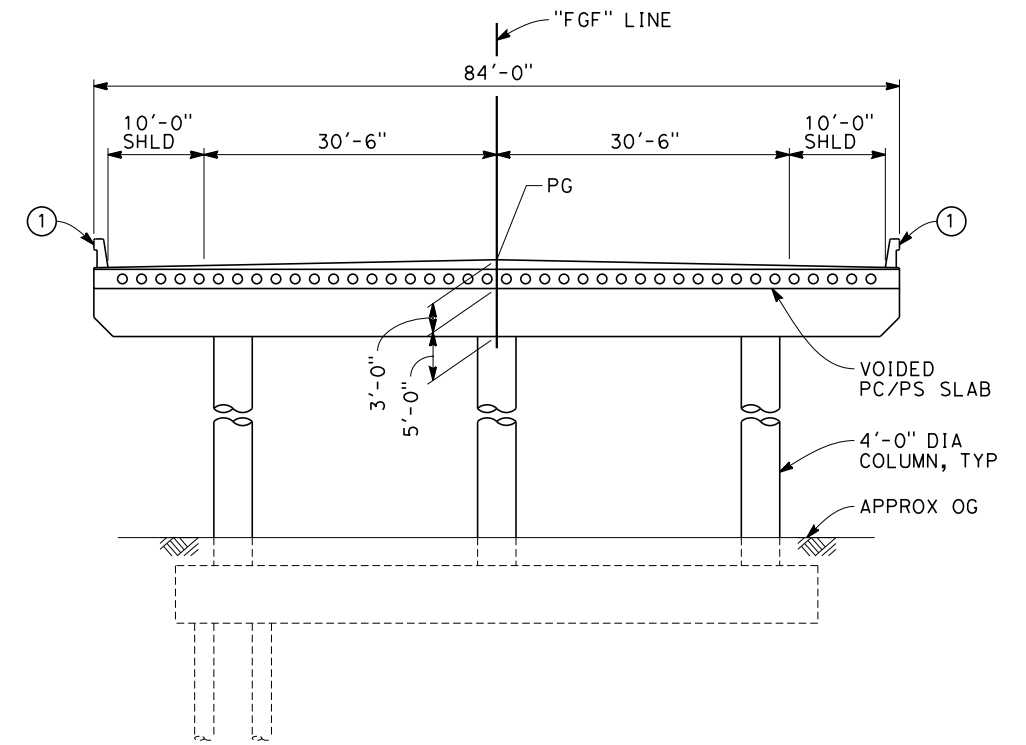
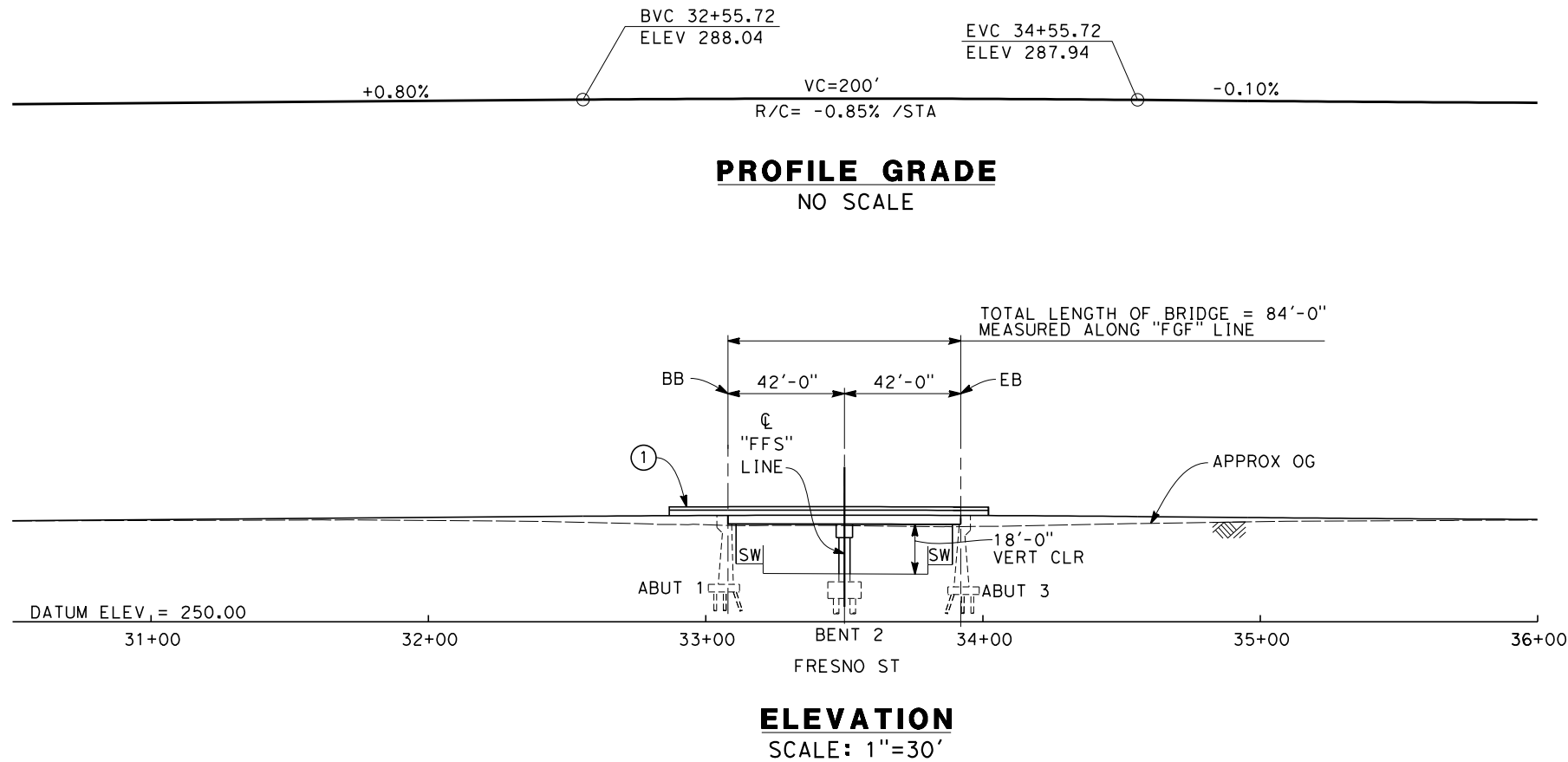
**NOT FOR  
CONSTRUCTION**



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

FRESNO SUBSECTION  
ALIGNMENT F1  
OVERHEAD PLANNING STUDY  
STANISLAUS ST

CONTRACT NO. HSR 06-0003
DRAWING NO. ST2012
SCALE AS SHOWN
SHEET NO. 3 OF 13

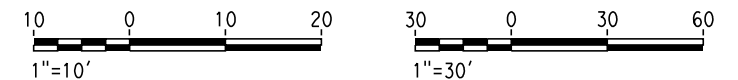


**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER
- ② RETAINING WALL
- ③ MBGR



12/30/2013 3:03:09 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2015-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
D. BARNHART

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

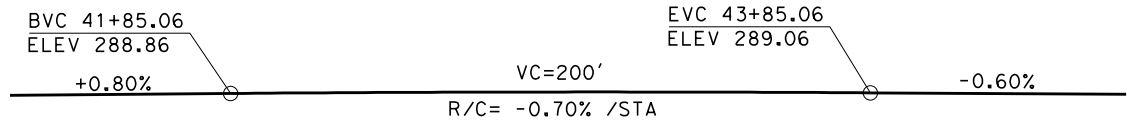
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ALIGNMENT F1  
UNDERPASS PLANNING STUDY  
FRESNO ST

CONTRACT NO.  
HSR 06-0003

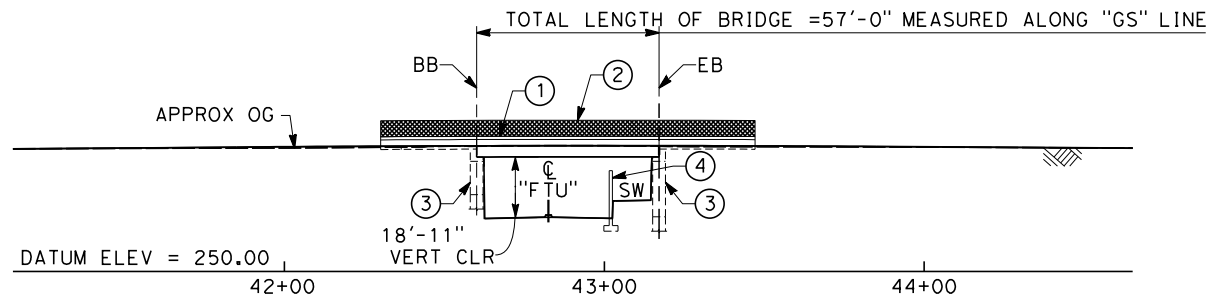
DRAWING NO.  
ST2015

SCALE  
AS SHOWN

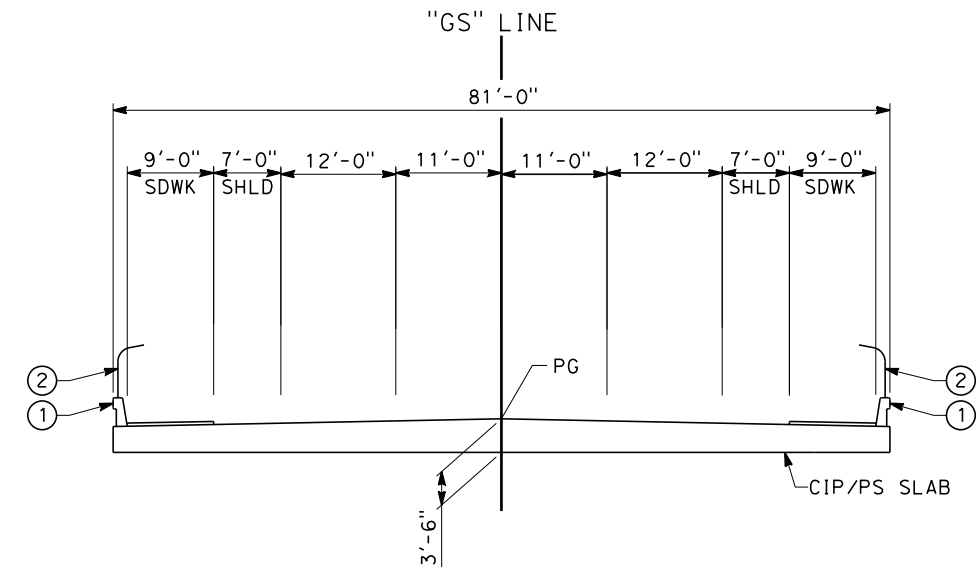
SHEET NO.  
4 OF 13



**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



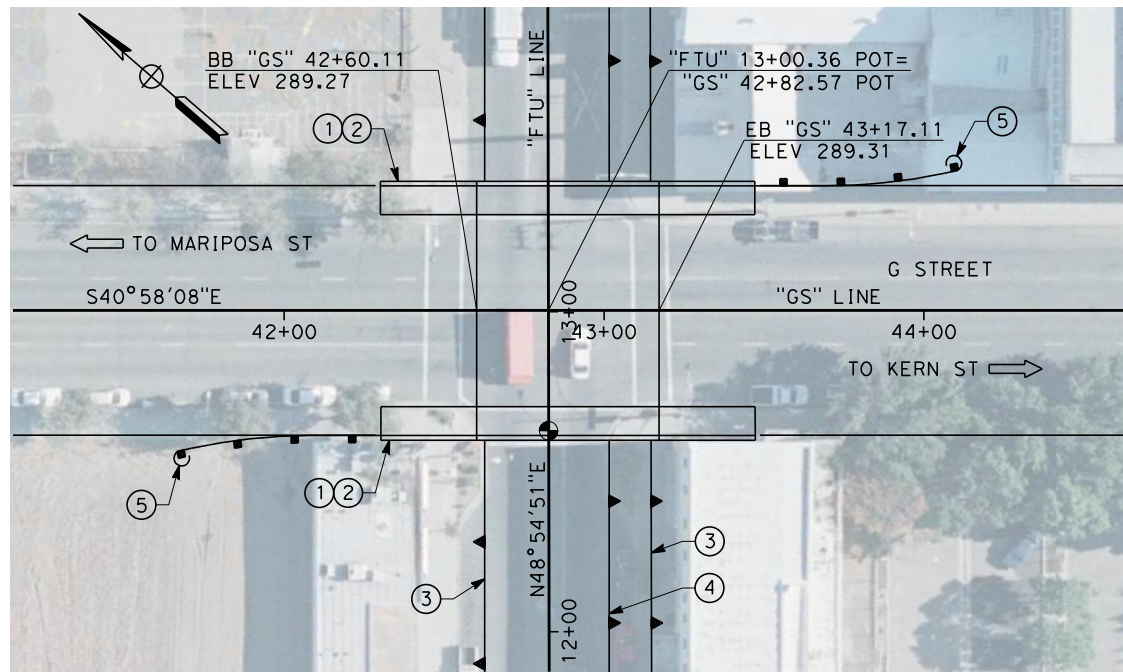
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

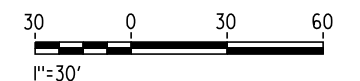
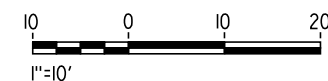
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE
- ③ TANGENT PILE RETAINING WALL
- ④ RETAINING WALL
- ⑤ MBGR



**PLAN**  
SCALE: 1"=30'



12/30/2013 3:07:09 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2018-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

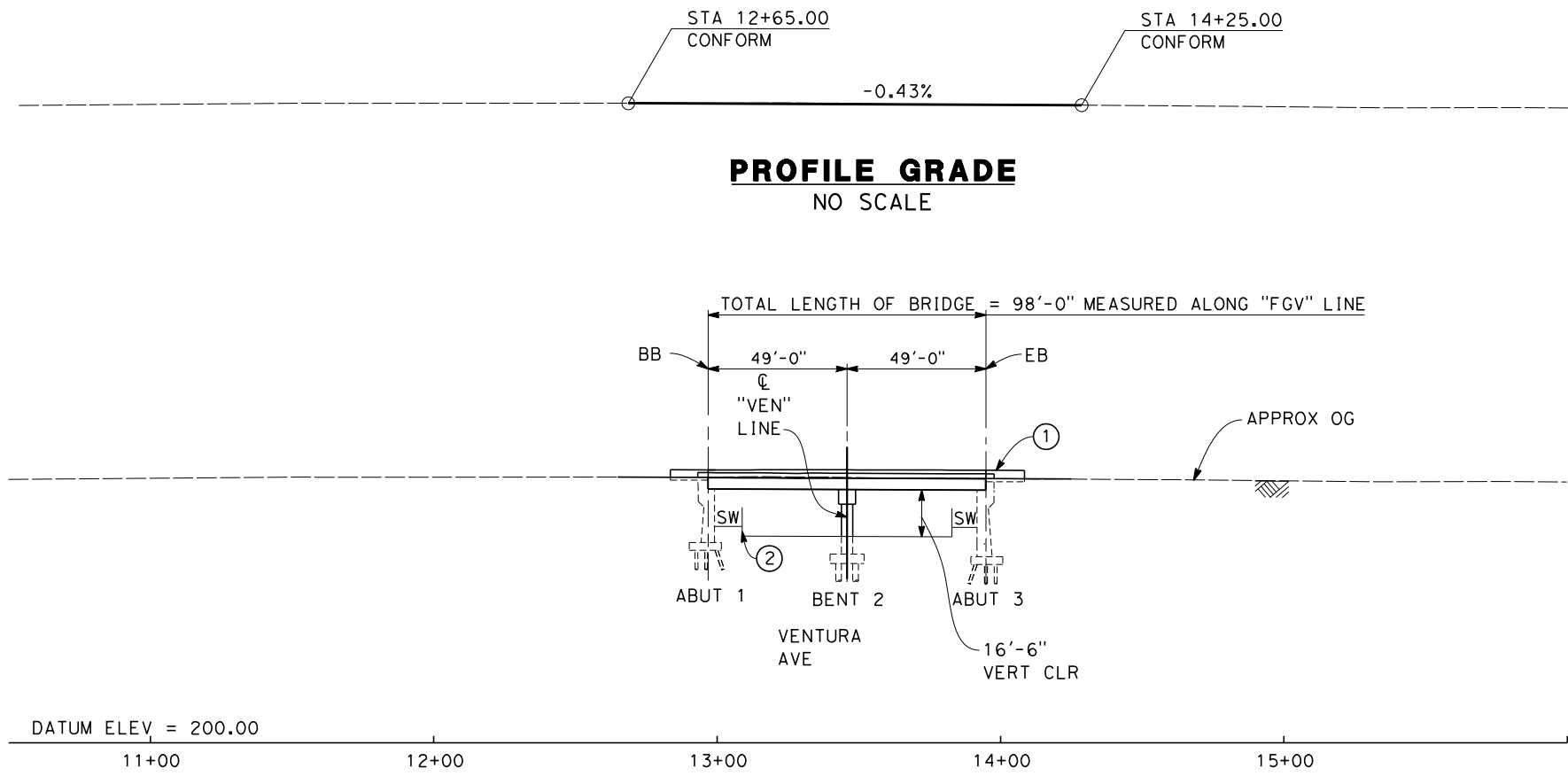
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
B. LUSCOMBE  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

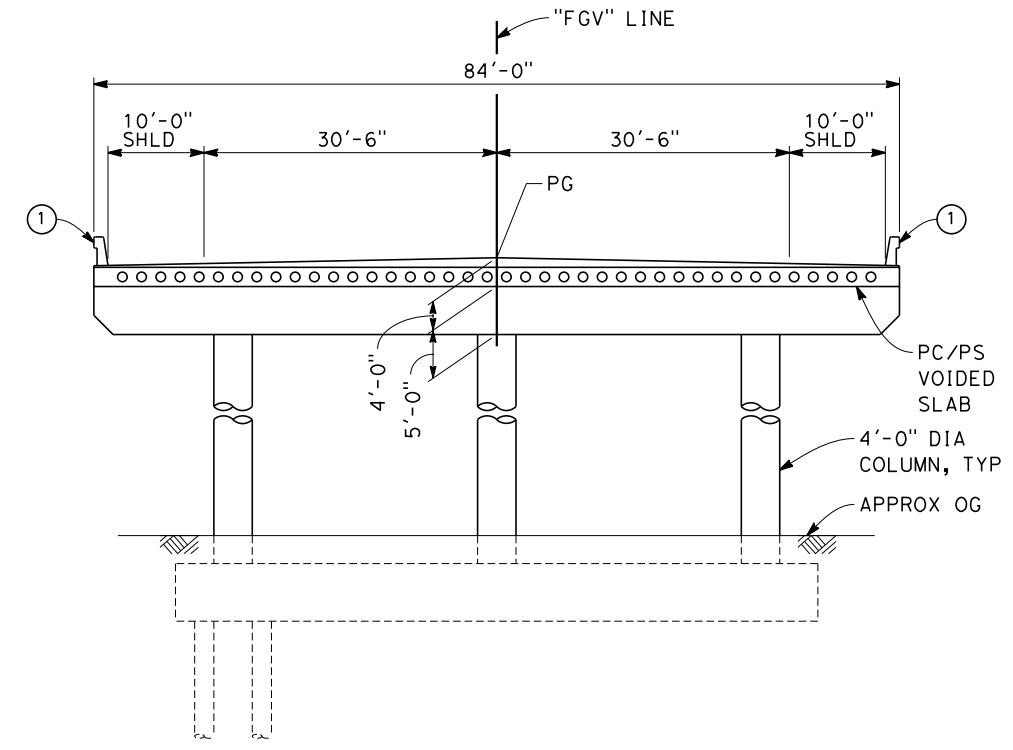


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
FRESNO SUBSECTION  
ALIGNMENT F1  
UNDERPASS PLANNING STUDY  
TULARE ST

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2018  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 13



**ELEVATION**  
SCALE: 1"=30'



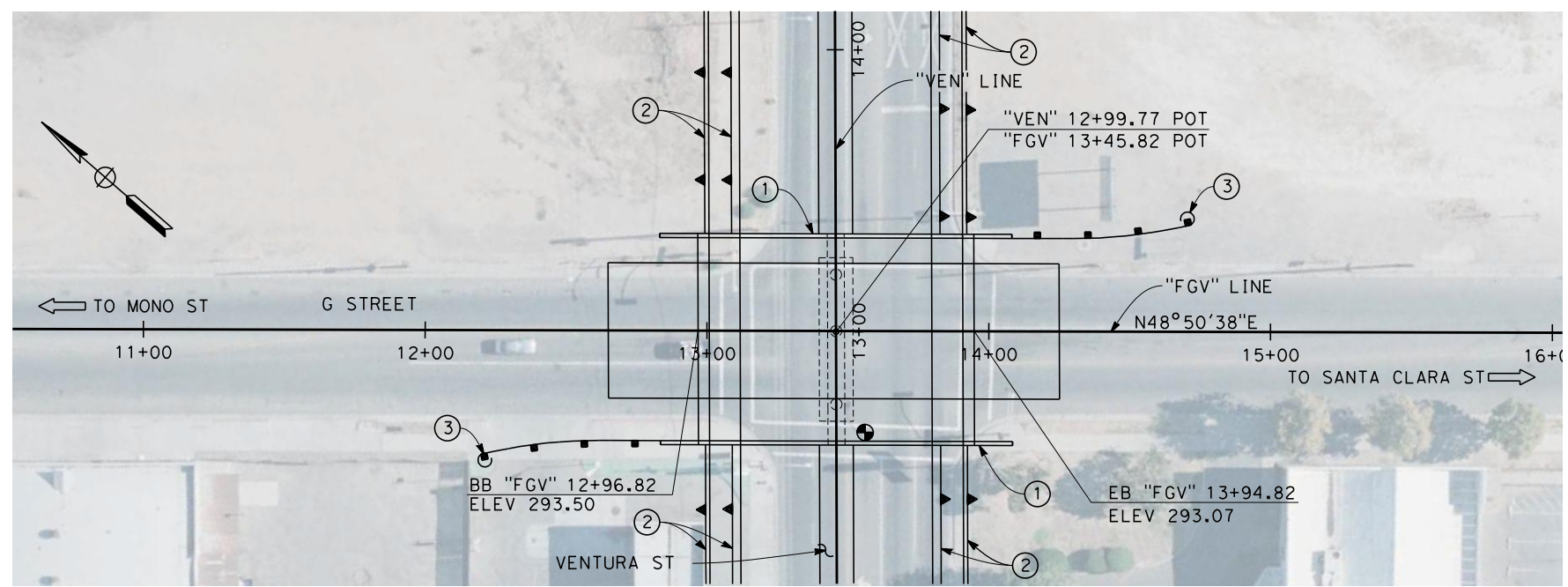
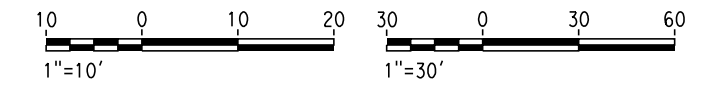
**TYPICAL SECTION**  
SCALE: 1"=10'

**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER
- ② RETAINING WALL
- ③ MBGR



**PLAN**  
SCALE: 1"=30'

12/30/2013 3:04:46 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2021-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

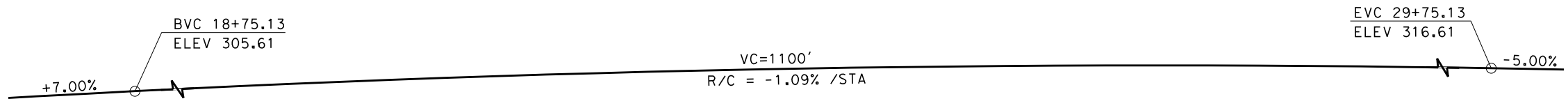
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

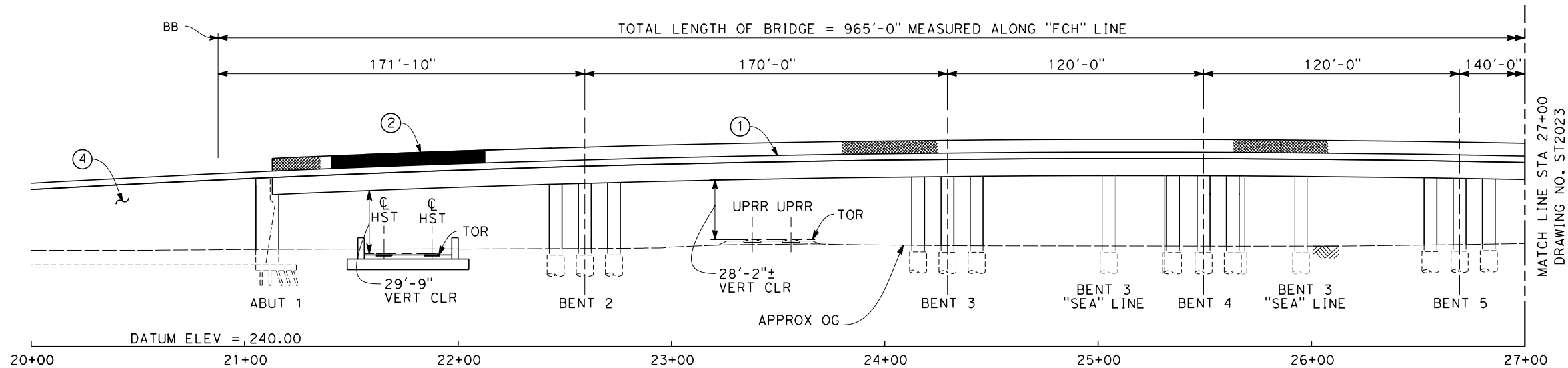


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
FRESNO SUBSECTION  
ALIGNMENT F1  
UNDERPASS PLANNING STUDY  
VENTURA ST

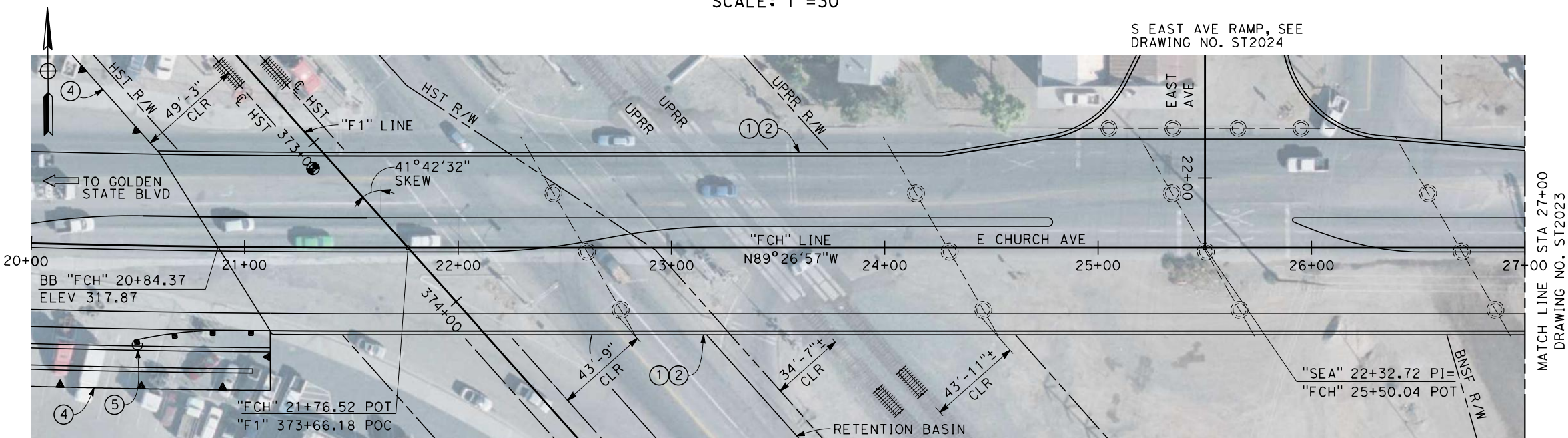
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2021  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 13



**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



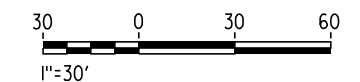
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ RETAINING WALL
- ⑤ MBGR



12/30/2013 3:05:43 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2022-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

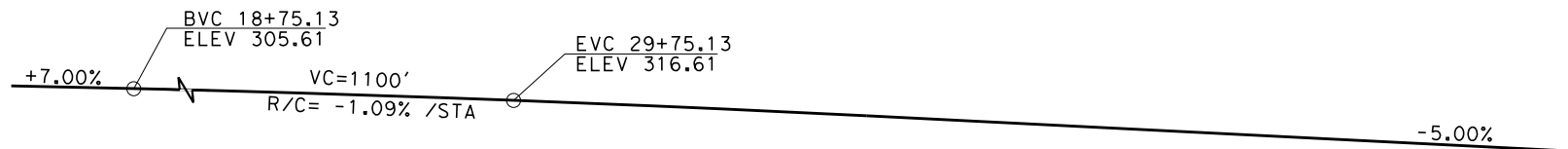
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
B. LUSCOMBE  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

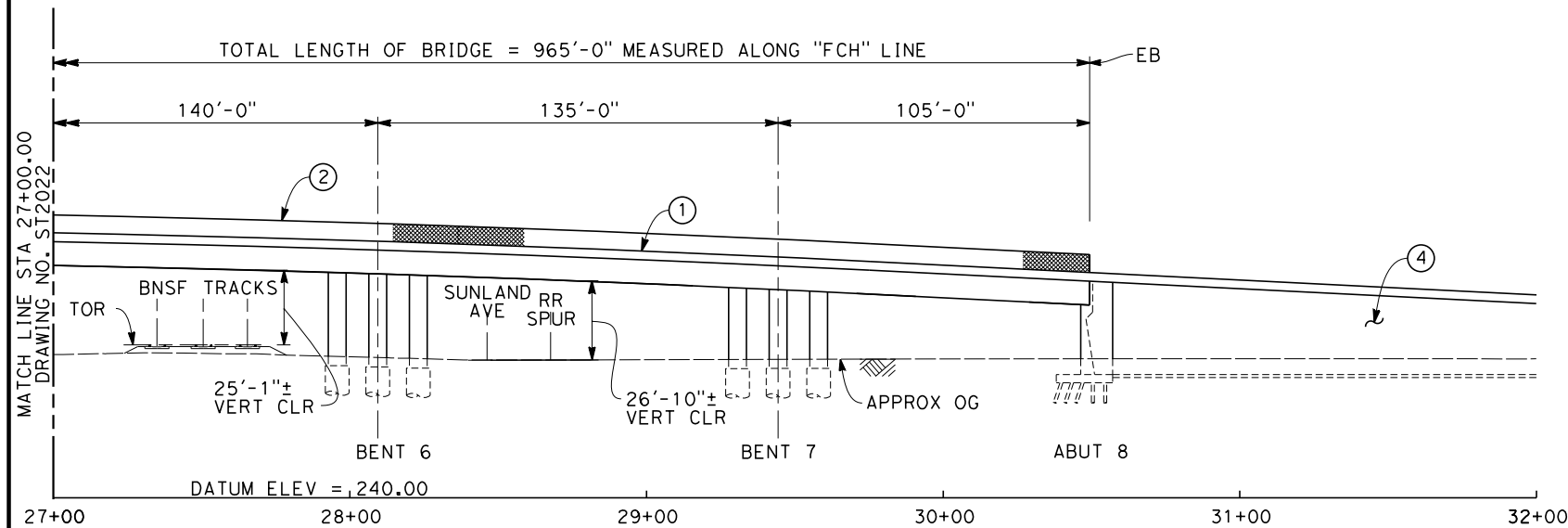


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
FRESNO SUBSECTION  
ALIGNMENT F1  
OVERHEAD PLANNING STUDY  
E CHURCH AVE

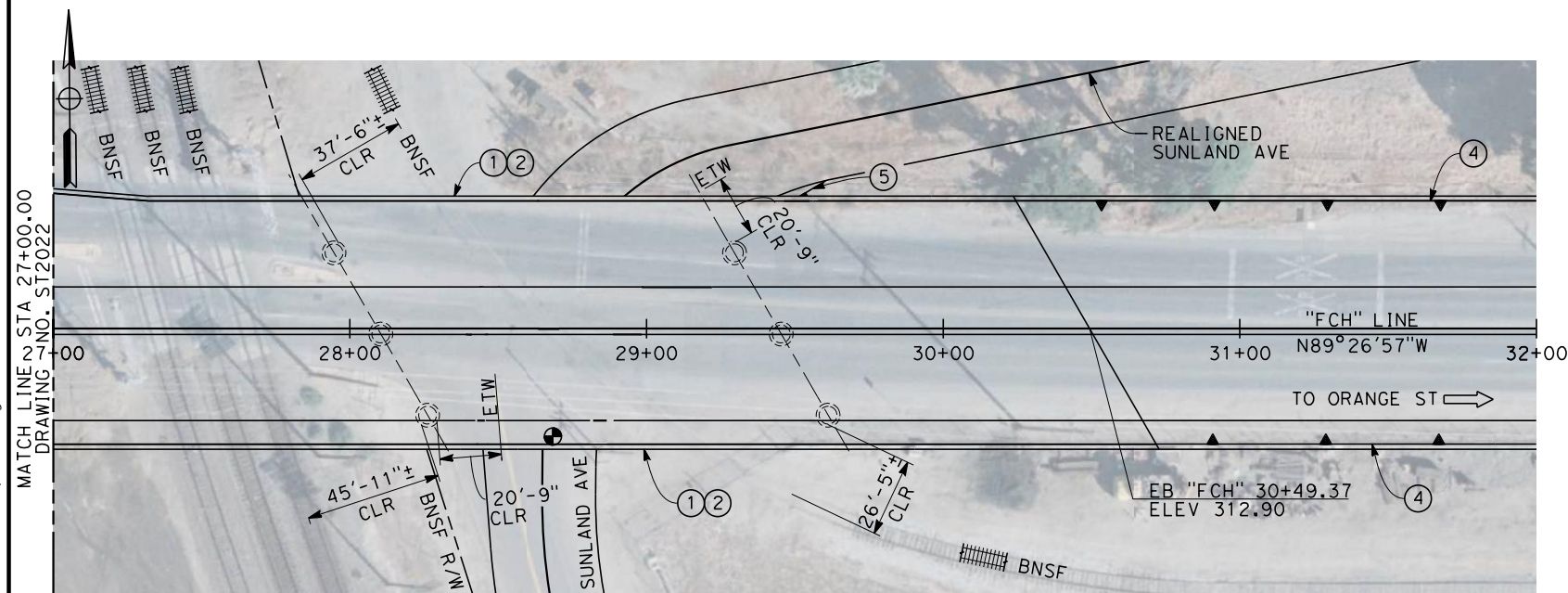
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DRAWING NO.  
ST2022  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 13



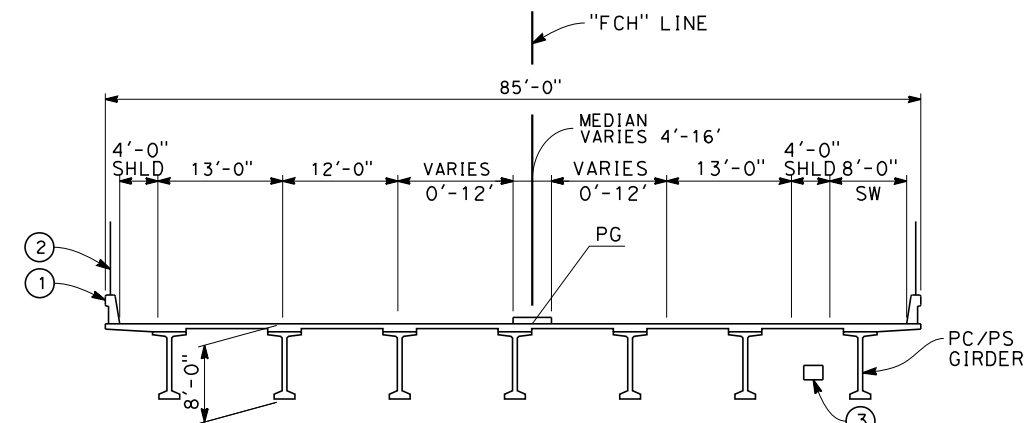
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NO SCALE



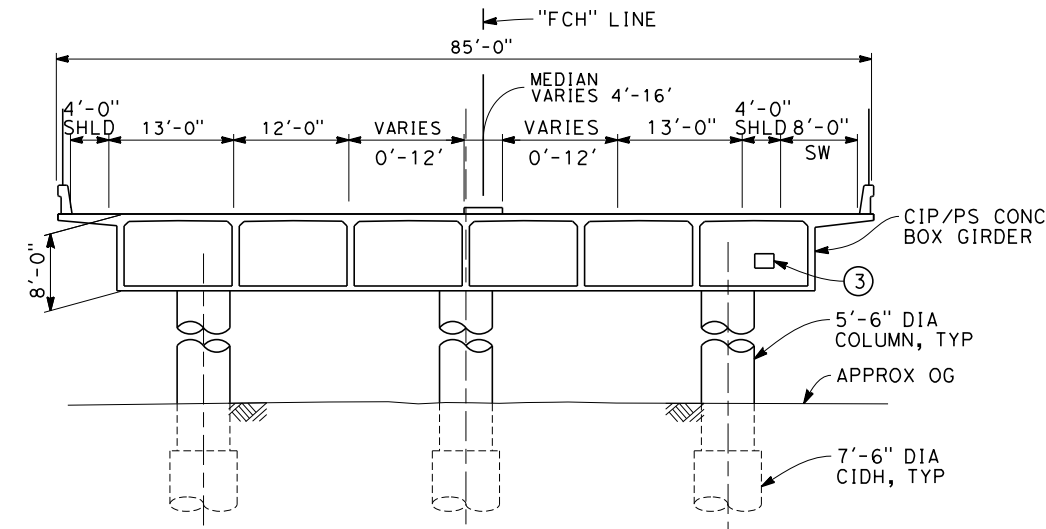
**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



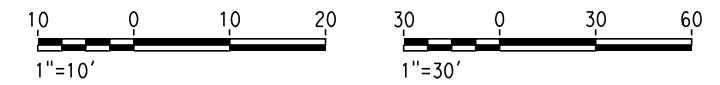
**SECTION OVER BNSF AND UPRR**



**TYPICAL SECTION**  
SCALE: 1"=10'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ RETAINING WALL W/ BARRIER
  - ⑤ MBGR



12/30/2013 3:06:33 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2023-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
B. LUSCOMBE  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

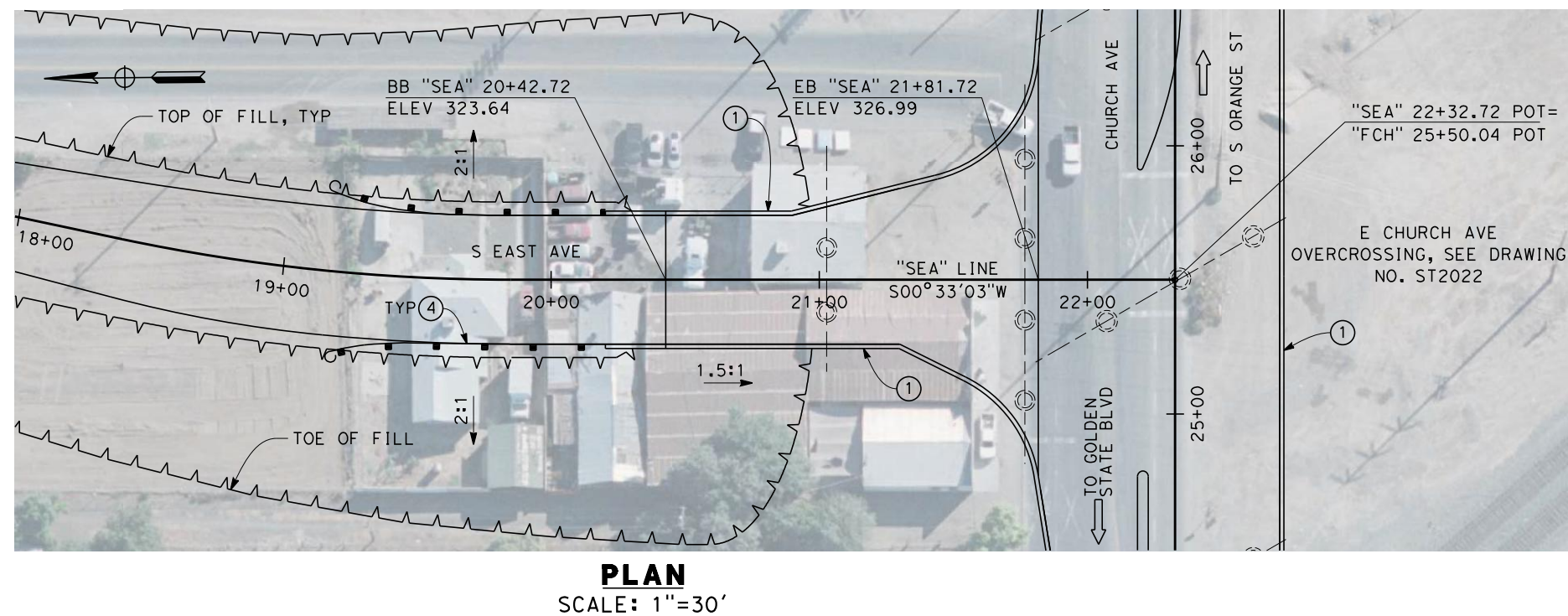
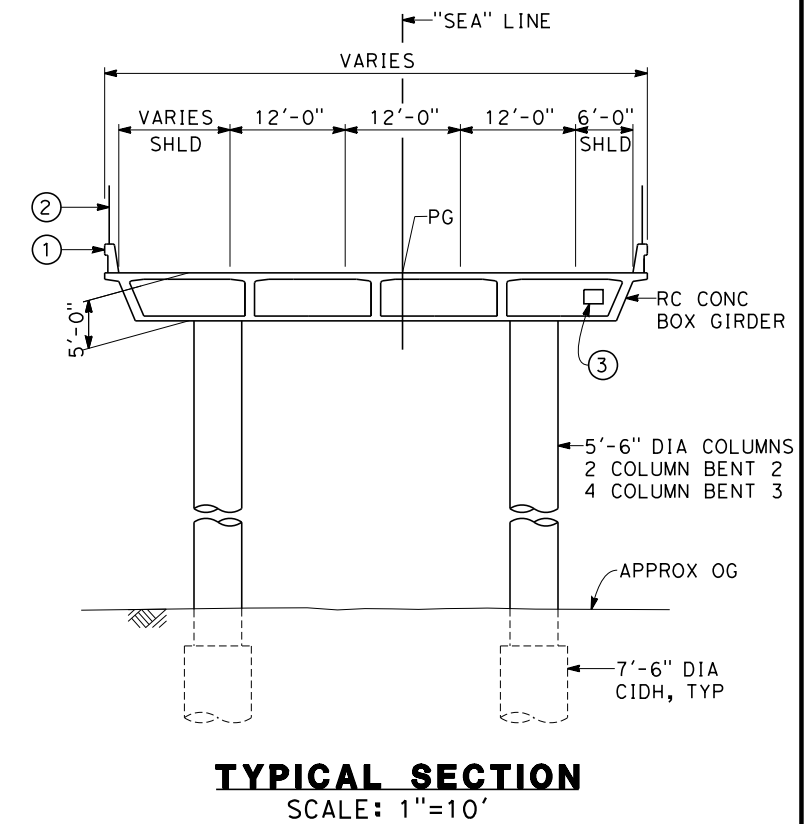
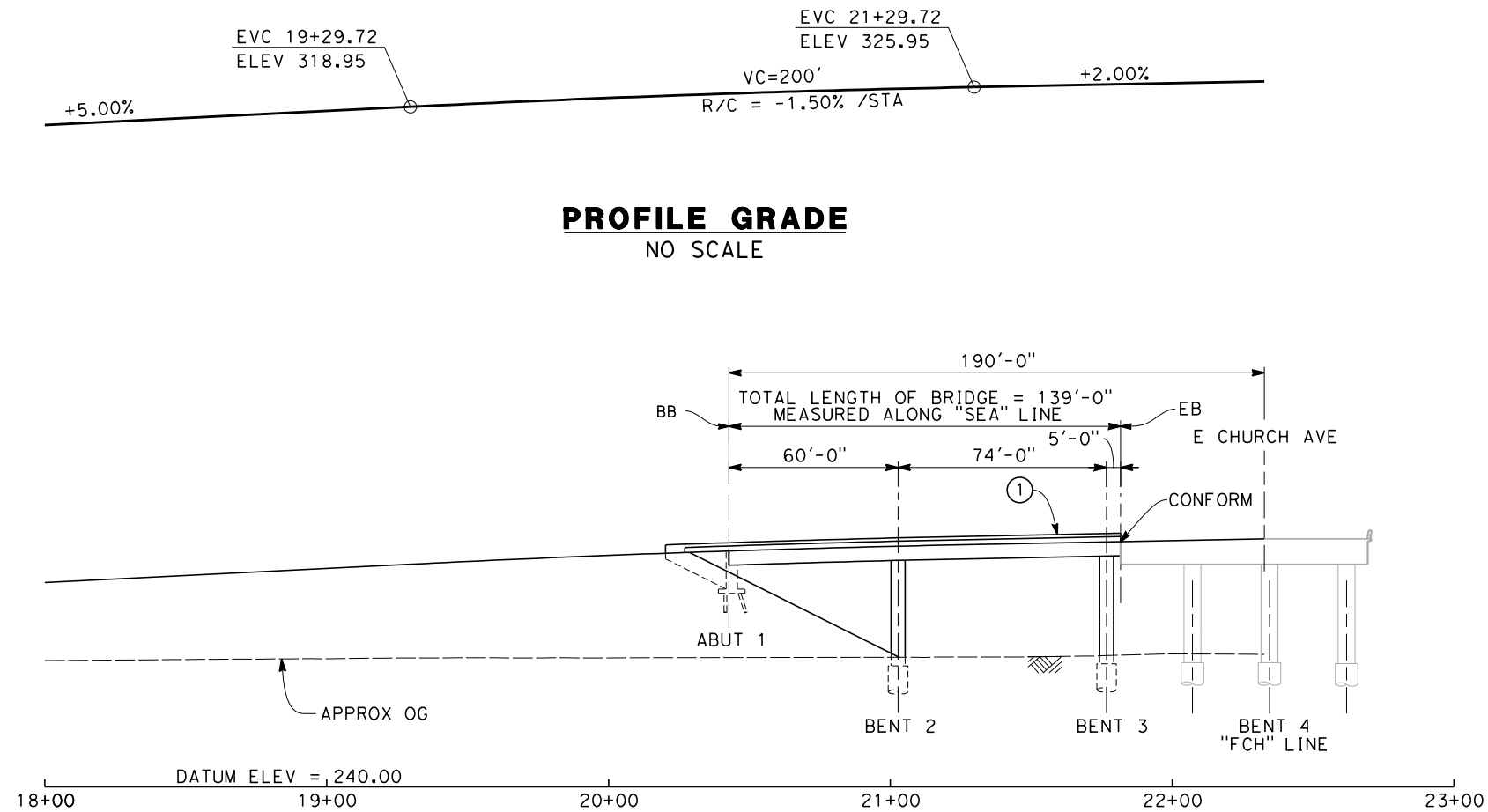
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
FRESNO SUBSECTION  
ALIGNMENT F1  
OVERHEAD PLANNING STUDY  
E CHURCH AVE

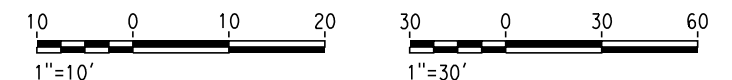
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2023  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 13





- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- (1) CONCRETE BARRIER
  - (2) AR FENCE WITH SOLID PLATE OVER HST
  - (3) FUTURE UTILITY ENCASEMENT OPENING
  - (4) MBGR



12/30/2013 3:07:20 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2024-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
D. BARNHART

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

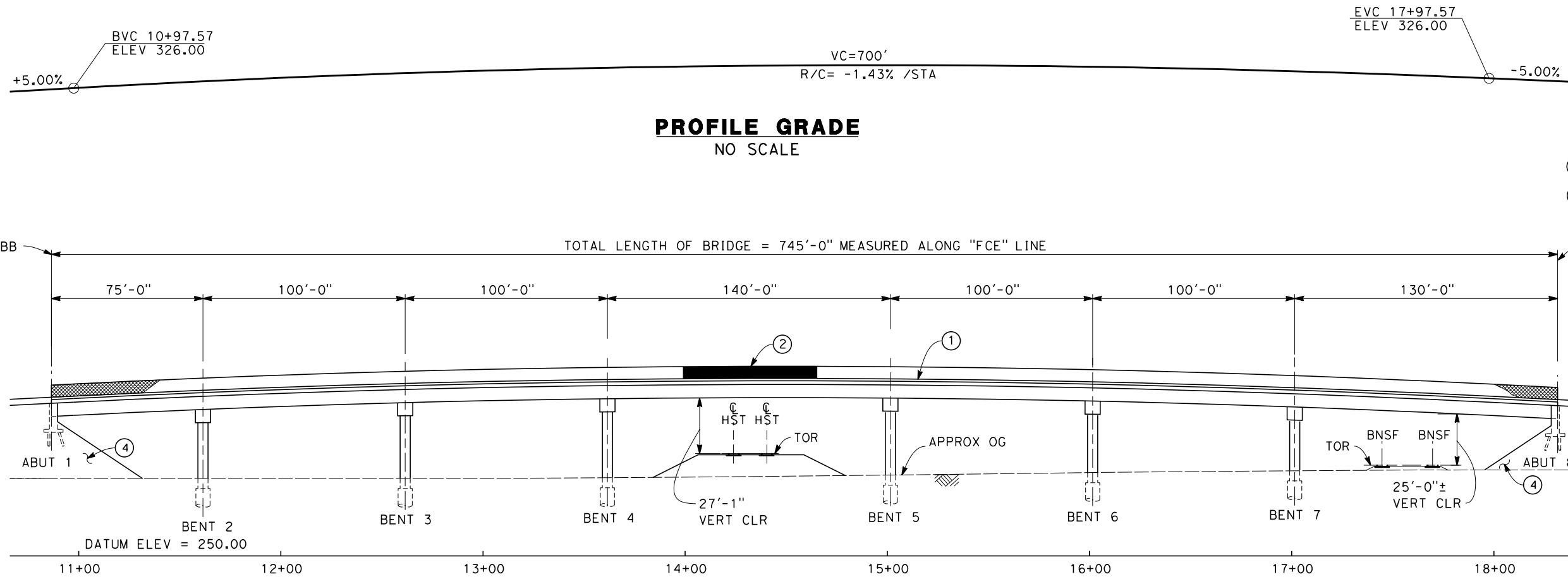
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ALIGNMENT F1  
OVERHEAD PLANNING STUDY  
S EAST AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2024

SCALE  
AS SHOWN

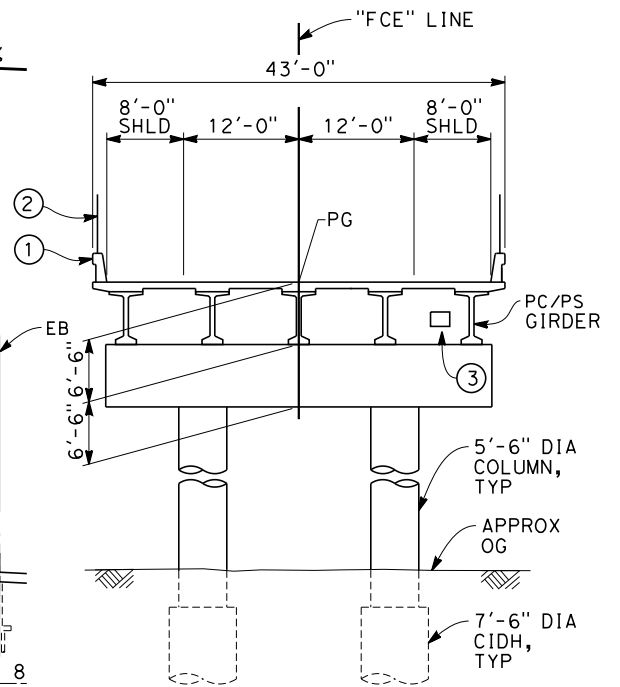
SHEET NO.  
9 OF 13



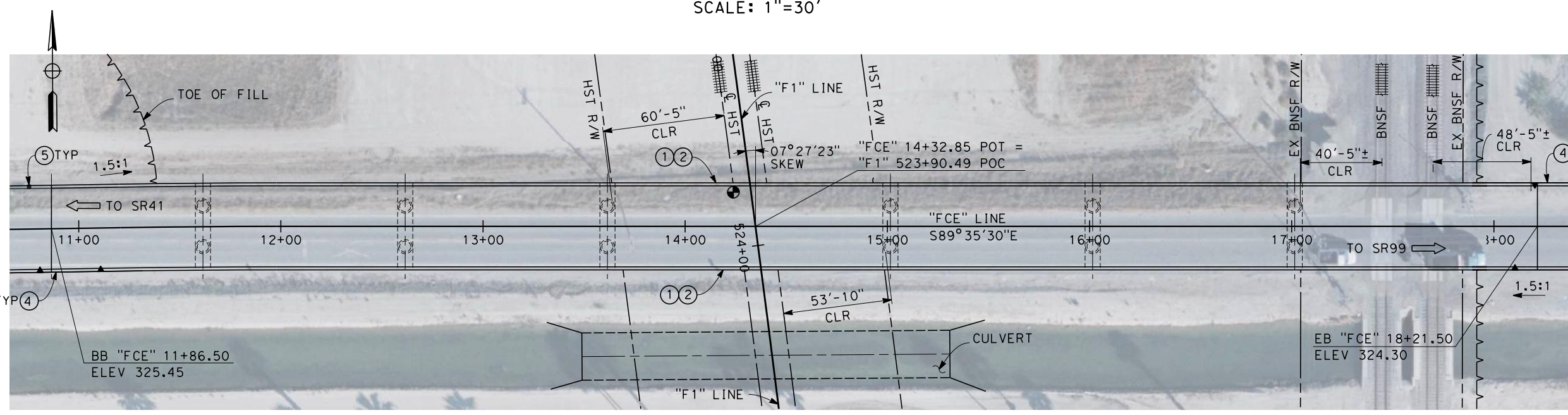
**PROFILE GRADE**  
NO SCALE

TOTAL LENGTH OF BRIDGE = 745'-0" MEASURED ALONG "FCE" LINE

**ELEVATION**  
SCALE: 1"=30'



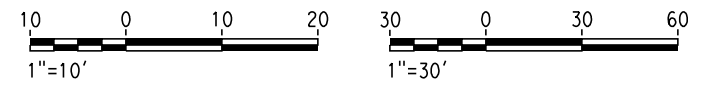
**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASMENT OPENING
  - ④ RETAINING WALL W/ BARRIER
  - ⑤ MBGR



12/30/2013 3:08:11 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2025-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

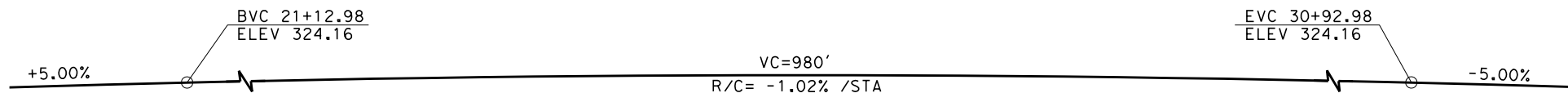
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

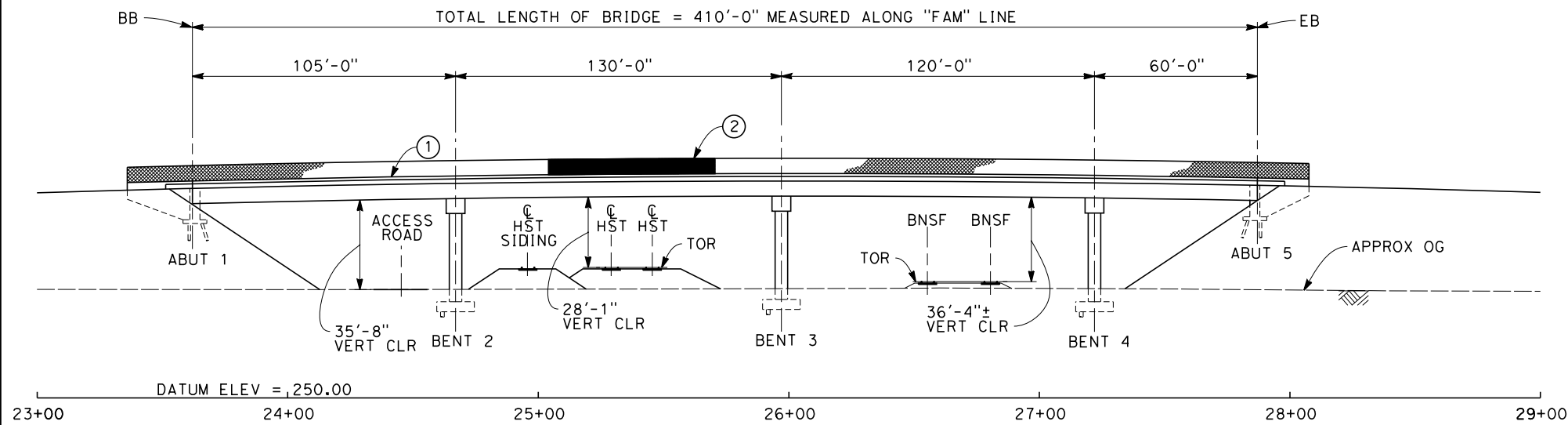


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
FRESNO SUBSECTION  
ALIGNMENT F1  
OVERHEAD PLANNING STUDY  
E CENTRAL AVE

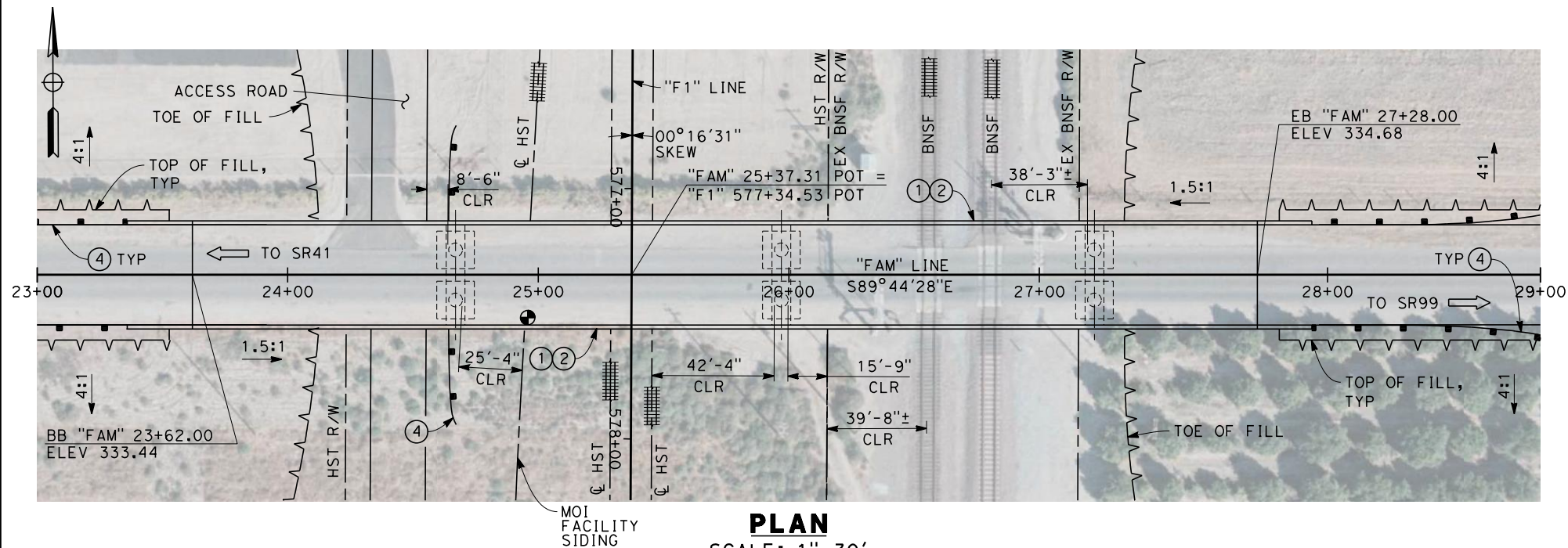
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2025  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 13



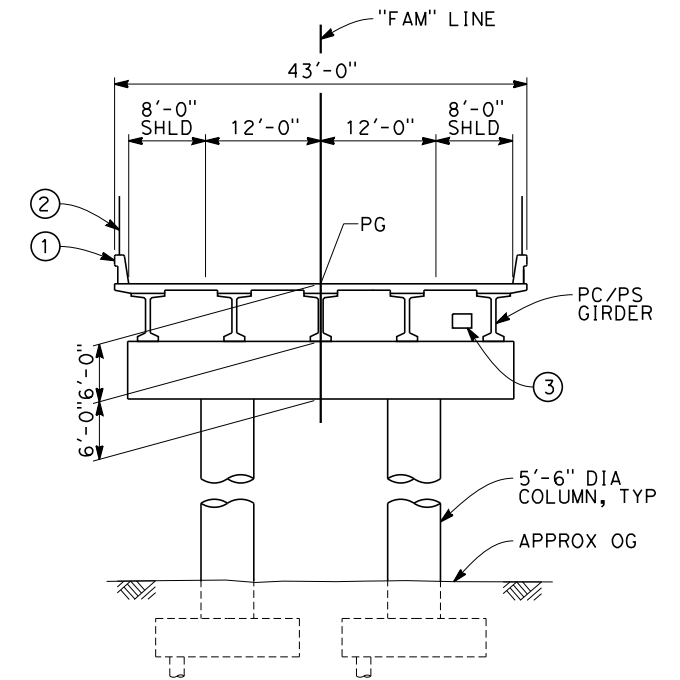
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



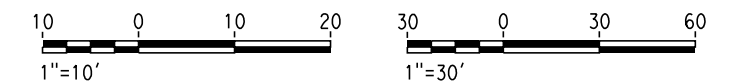
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/30/2013 3:09:09 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2028-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

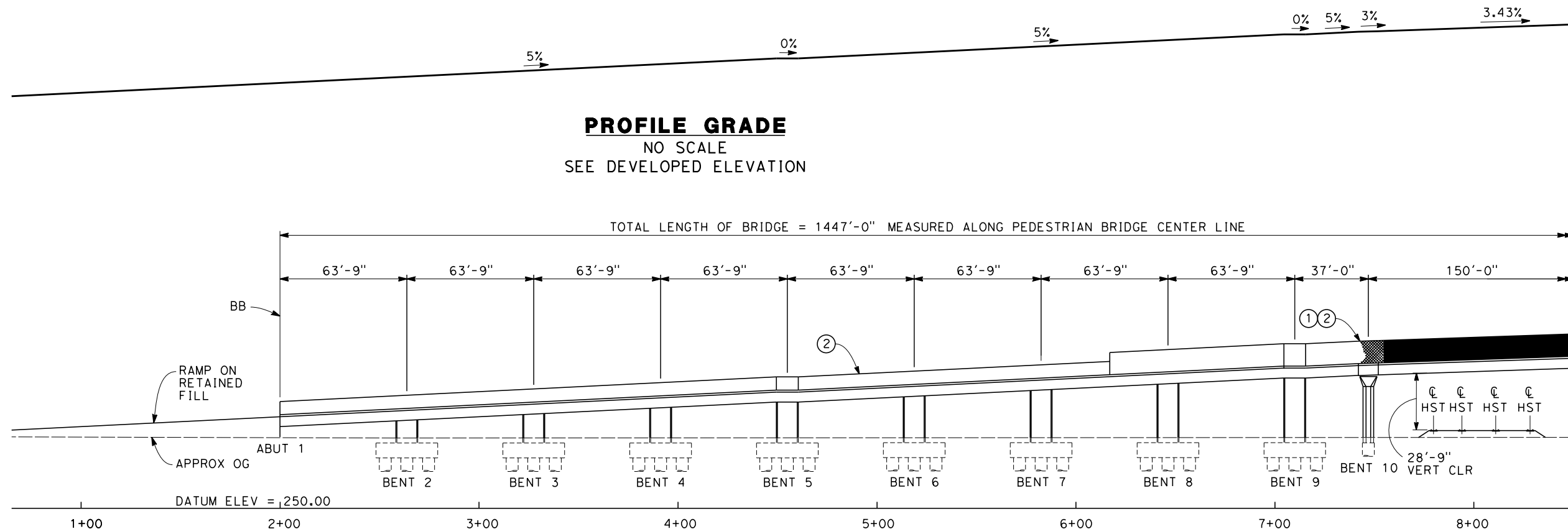
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

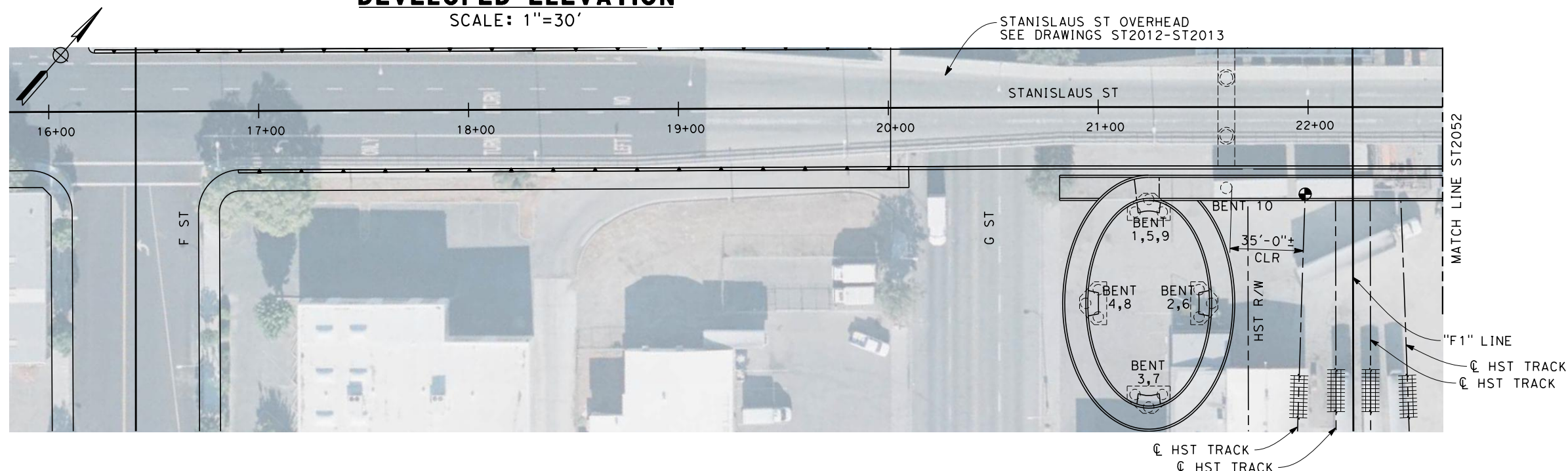


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
FRESNO SUBSECTION  
ALIGNMENT F1  
OVERHEAD PLANNING STUDY  
E AMERICAN AVE

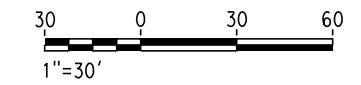
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2028  
SCALE  
AS SHOWN  
SHEET NO.  
11 OF 13



**DEVELOPED ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



12/30/2013 3:09:53 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2051-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

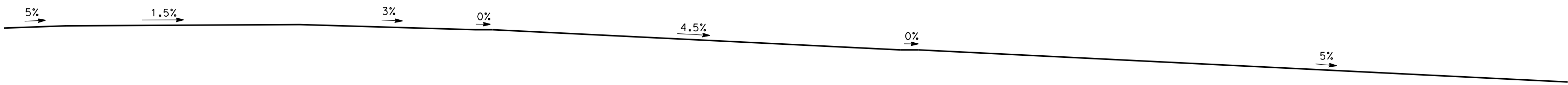
**NOT FOR  
CONSTRUCTION**



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

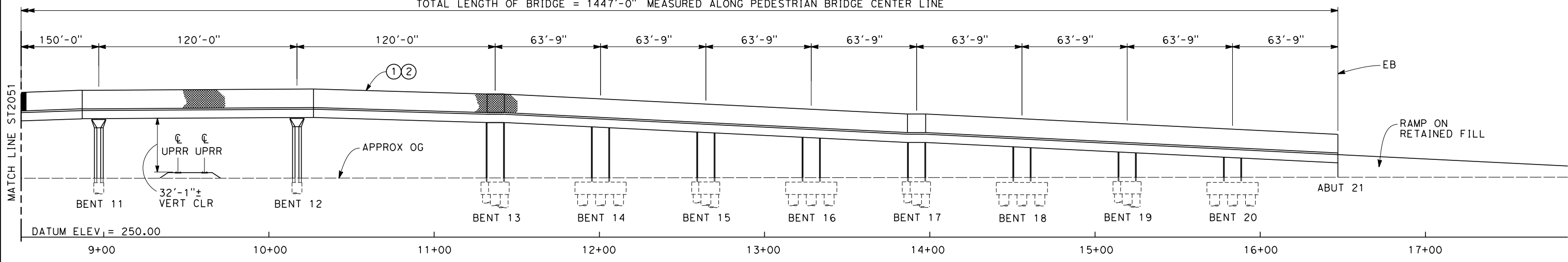
FRESNO SUBSECTION  
ALIGNMENT F1  
PEDESTRIAN PLANNING STUDY  
STANISLAUS ST

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2051  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 13

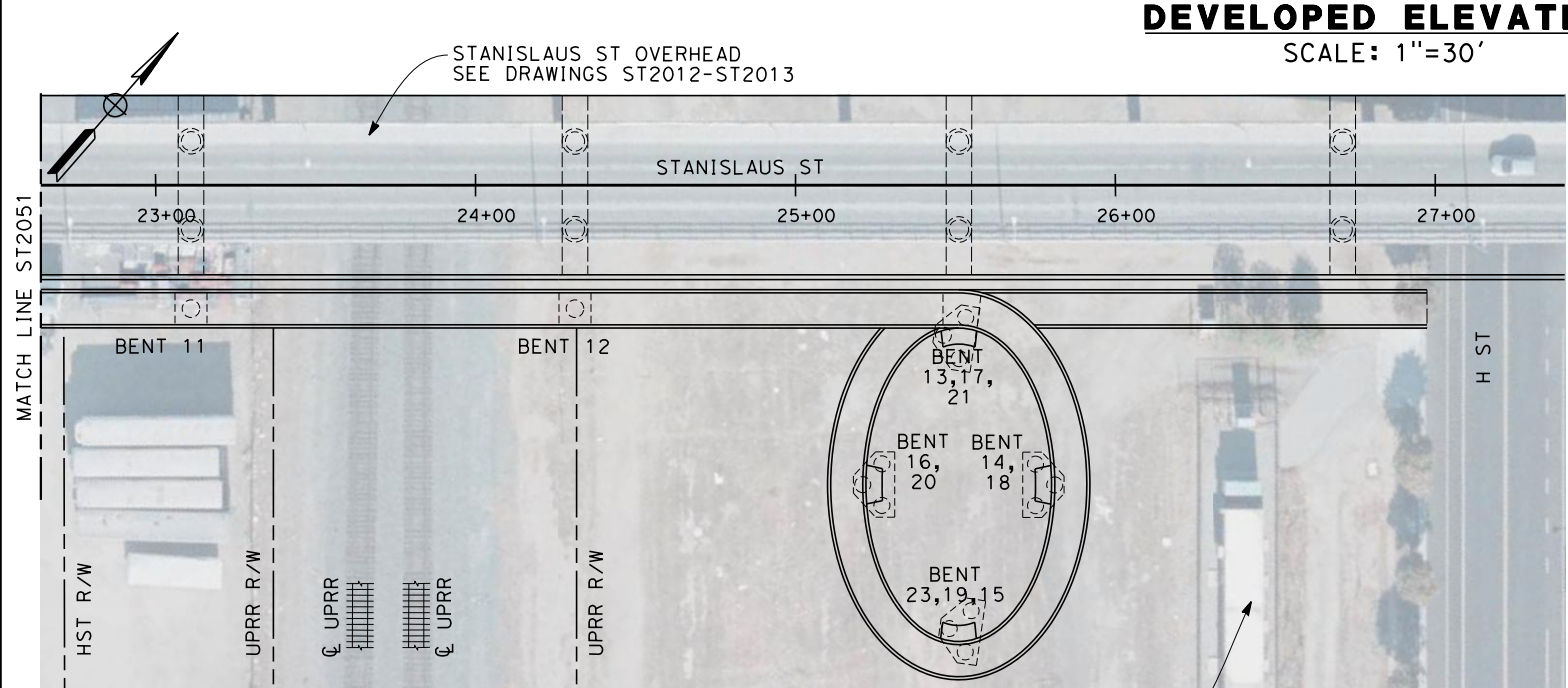


**PROFILE GRADE**  
NO SCALE  
SEE DEVELOPED ELEVATION

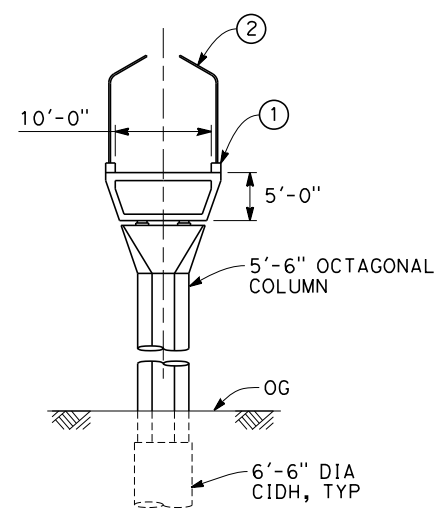
TOTAL LENGTH OF BRIDGE = 1447'-0" MEASURED ALONG PEDESTRIAN BRIDGE CENTER LINE



**DEVELOPED ELEVATION**  
SCALE: 1"=30'



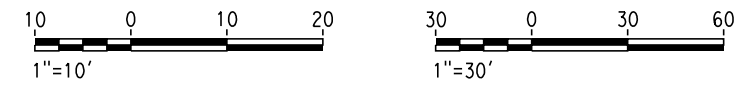
**PLAN**  
SCALE: 1"=30'



**SECTION**  
SCALE: 1"=10'

- NOTES:
1. STANISLAUS ST OVERHEAD NOT SHOWN IN ELEVATION
  2. ALL PILES NOT SHOWN

- LEGEND:
- ① PEDESTRIAN CURB
  - ② AR FENCE

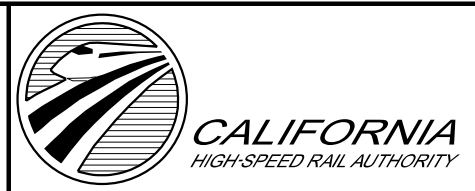


12/30/2013 3:10:34 PM c:\pwworking\hmm\external\bar50597\dms91103\FB-ST-2052-F1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
FRESNO SUBSECTION  
ALIGNMENT F1  
PEDESTRIAN PLANNING STUDY  
STANISLAUS ST

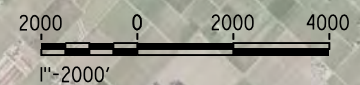
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2052  
SCALE  
AS SHOWN  
SHEET NO.  
13 OF 13

12/18/2013 3:08:52 PM c:\pwworking\hmm\external\pre45072\dms91110\FB-SB-0049-M.dgn



**LEGEND**

- +—+— EXISTING FREIGHT RAILROAD
- PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
D. BARNHART

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

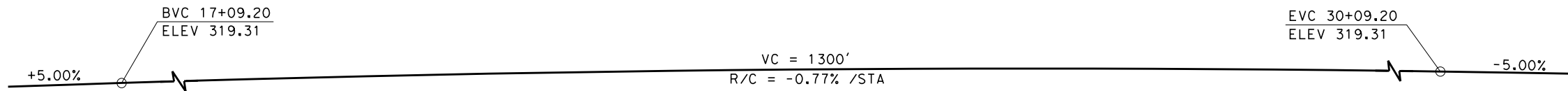
MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
KEY MAP

CONTRACT NO.  
HSR 06-0003

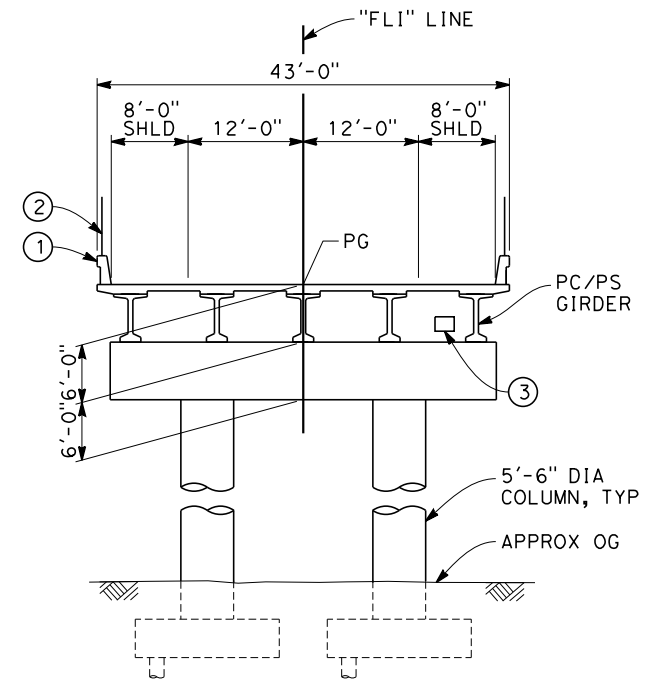
DRAWING NO.  
SB0049

SCALE  
AS SHOWN

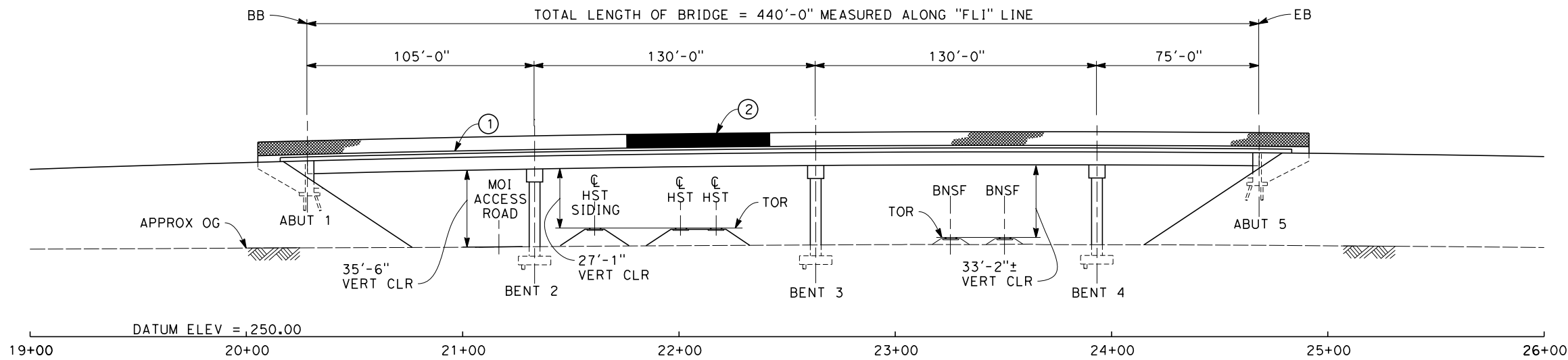
SHEET NO.  
1 OF 9



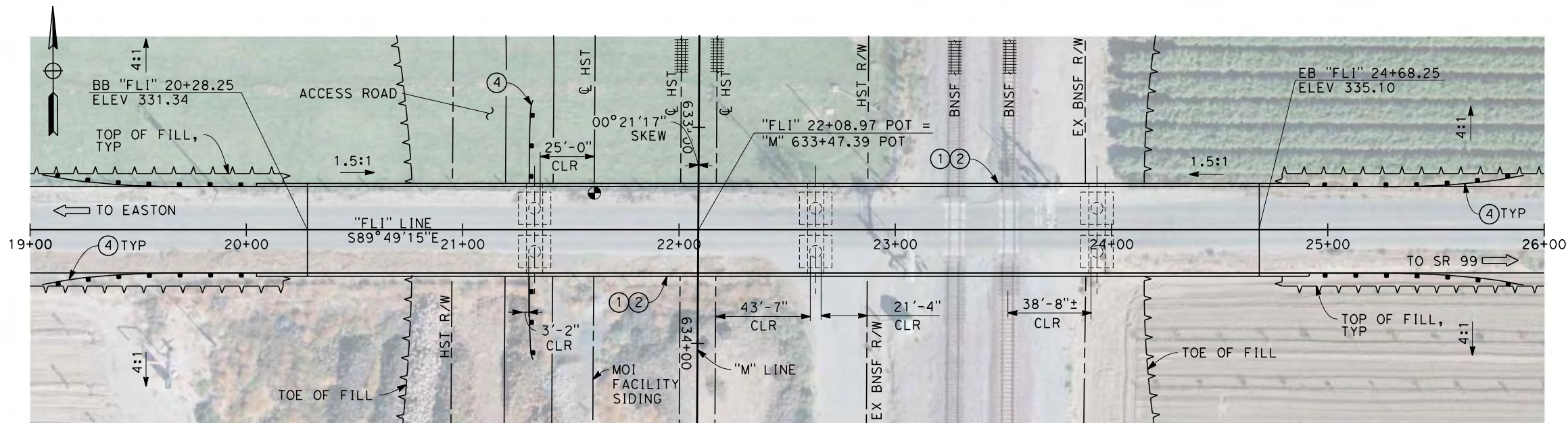
**PROFILE GRADE**  
NO SCALE



**TYPICAL SECTION**  
SCALE: 1"=10'



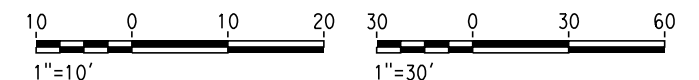
**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/24/2013 7:41:15 AM c:\pwworking\hmm\external\pre45072\dms91110\FB-ST-2101-M.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

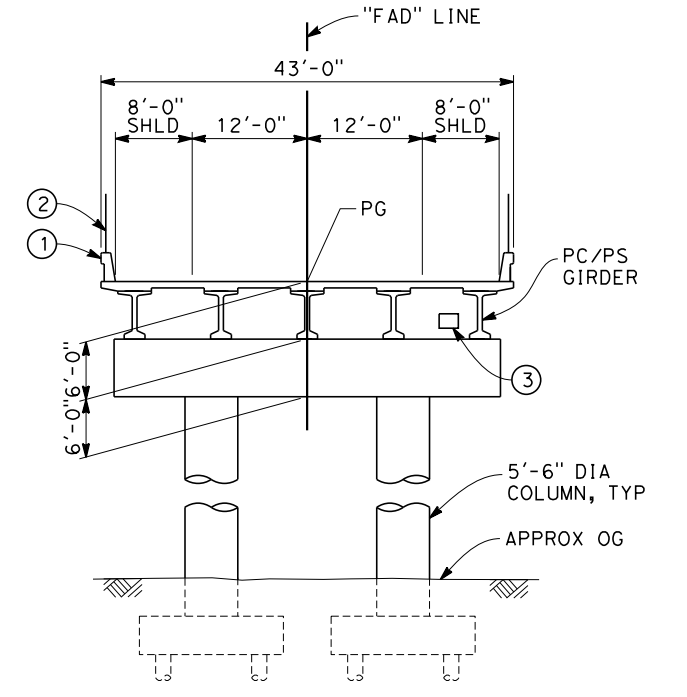
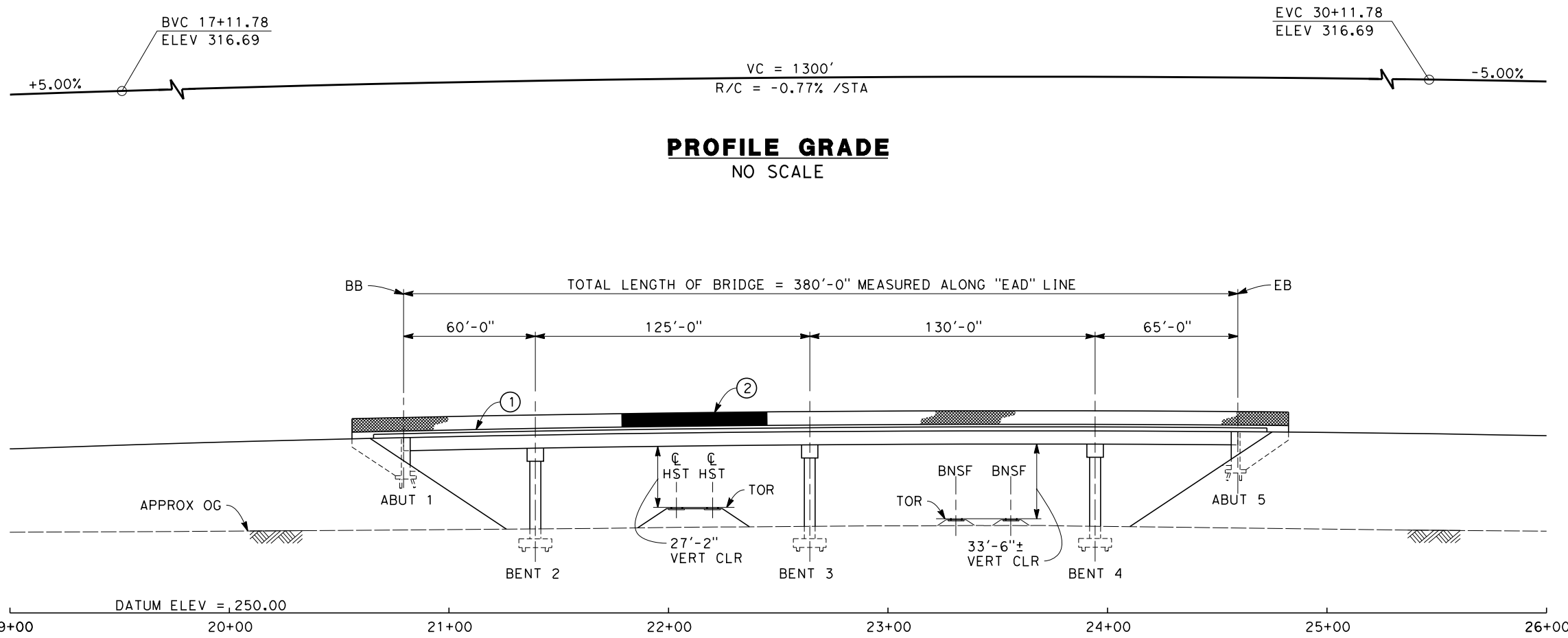
DESIGNED BY  
L. SMITH  
DRAWN BY  
T. PRETZER  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



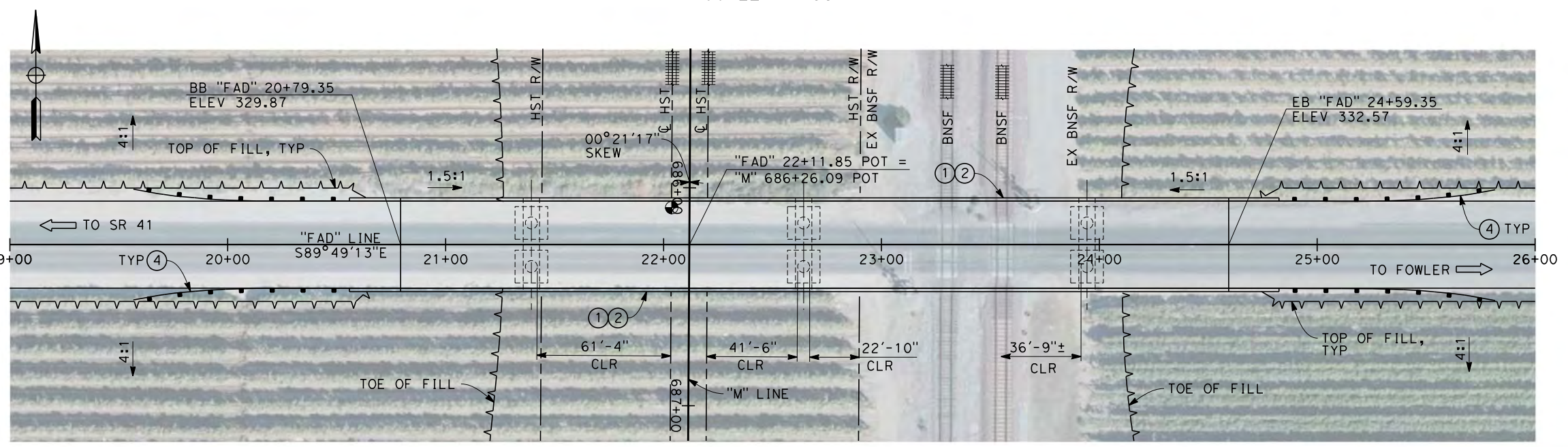
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
E LINCOLN AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2101  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 9



**TYPICAL SECTION**  
SCALE: 1"=10'

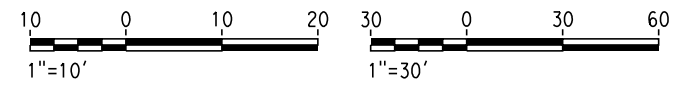
**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'

- NOTES:
- ALL PILES NOT SHOWN
  - FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/24/2013 7:52:06 AM c:\pwworking\hmm\external\pre45072\dms91110\FB-ST-2103-M.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
T. PRETZER

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
E ADAMS AVE

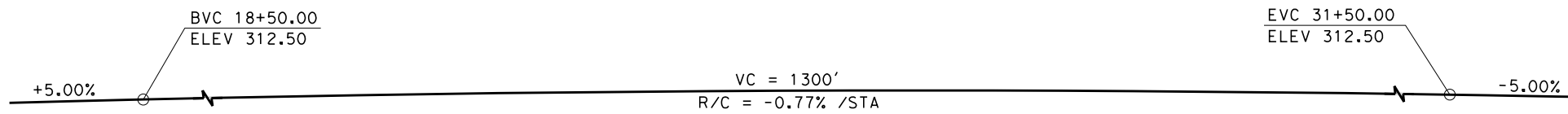
CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2103

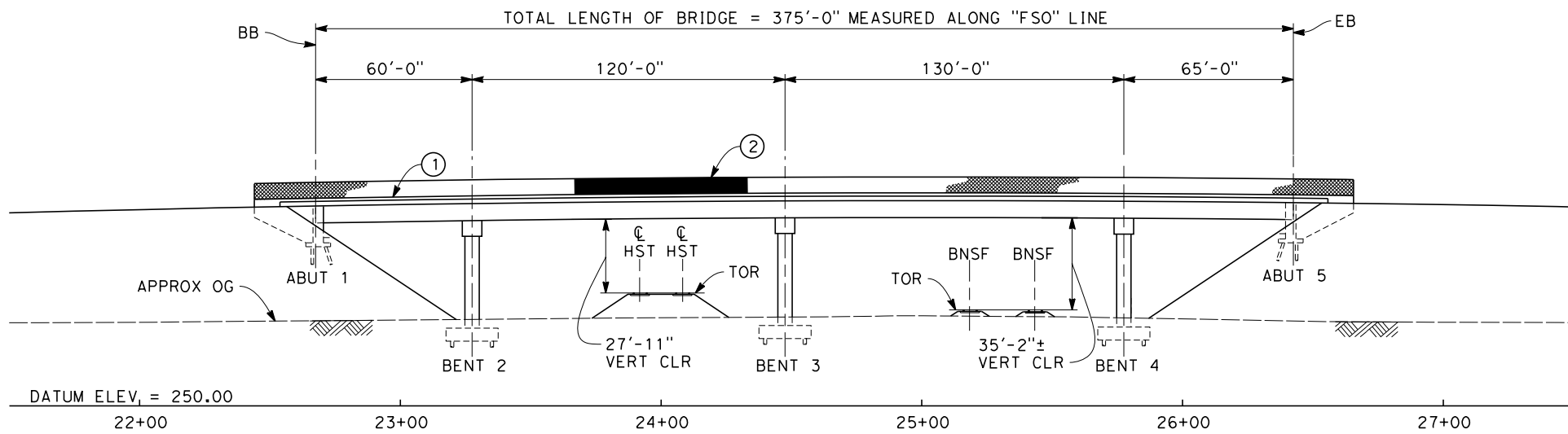
SCALE  
AS SHOWN

SHEET NO.  
3 OF 9

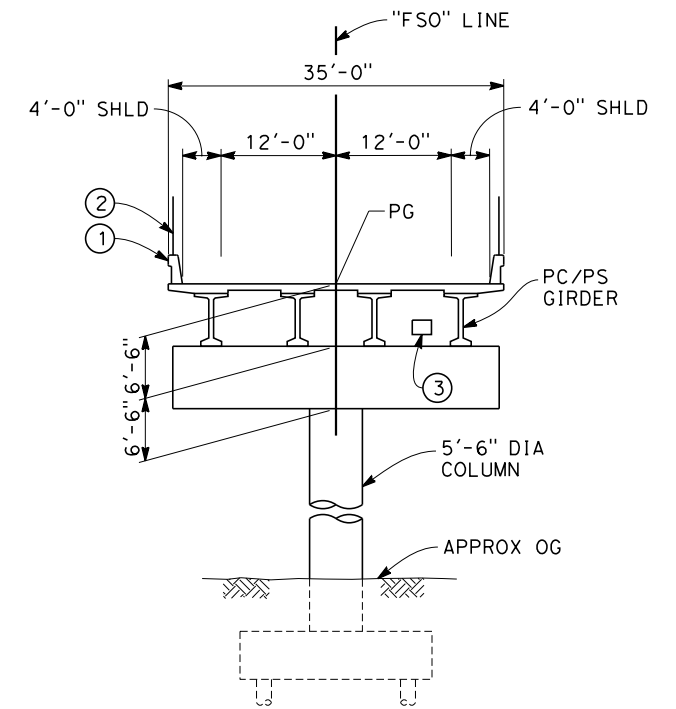




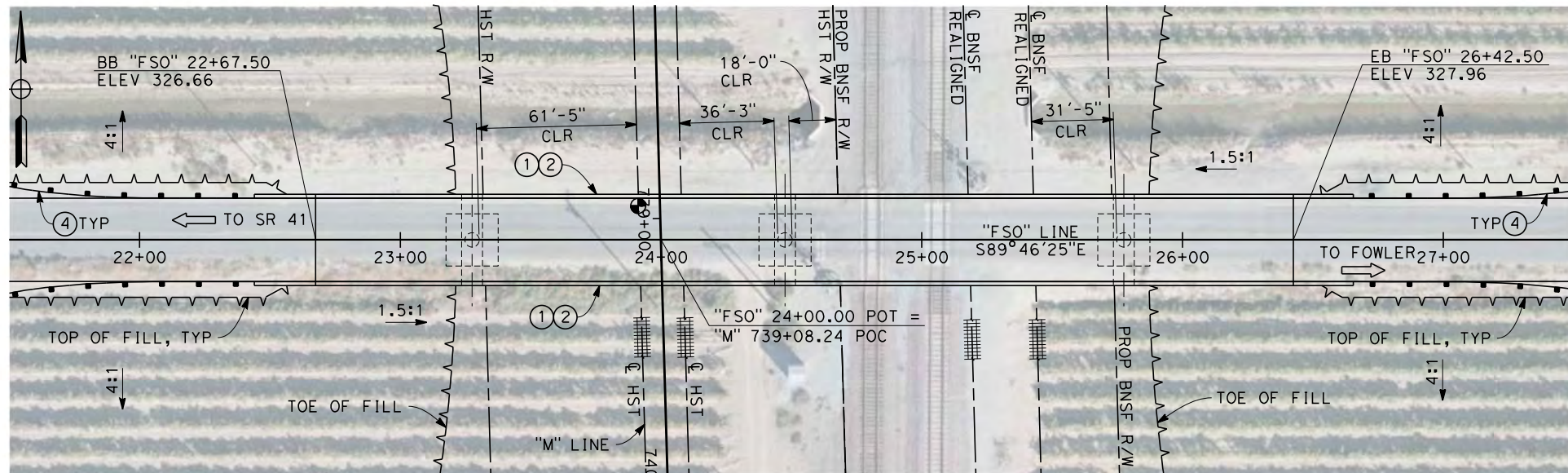
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



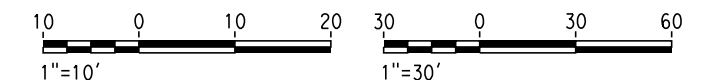
**PLAN**  
SCALE: 1"=30'

**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASUREMENT OPENING
- ④ MBGR



12/24/2013 10:15:15 AM c:\pwworking\hmm\external\pre45072\dms91110\FB-ST-2104-M.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

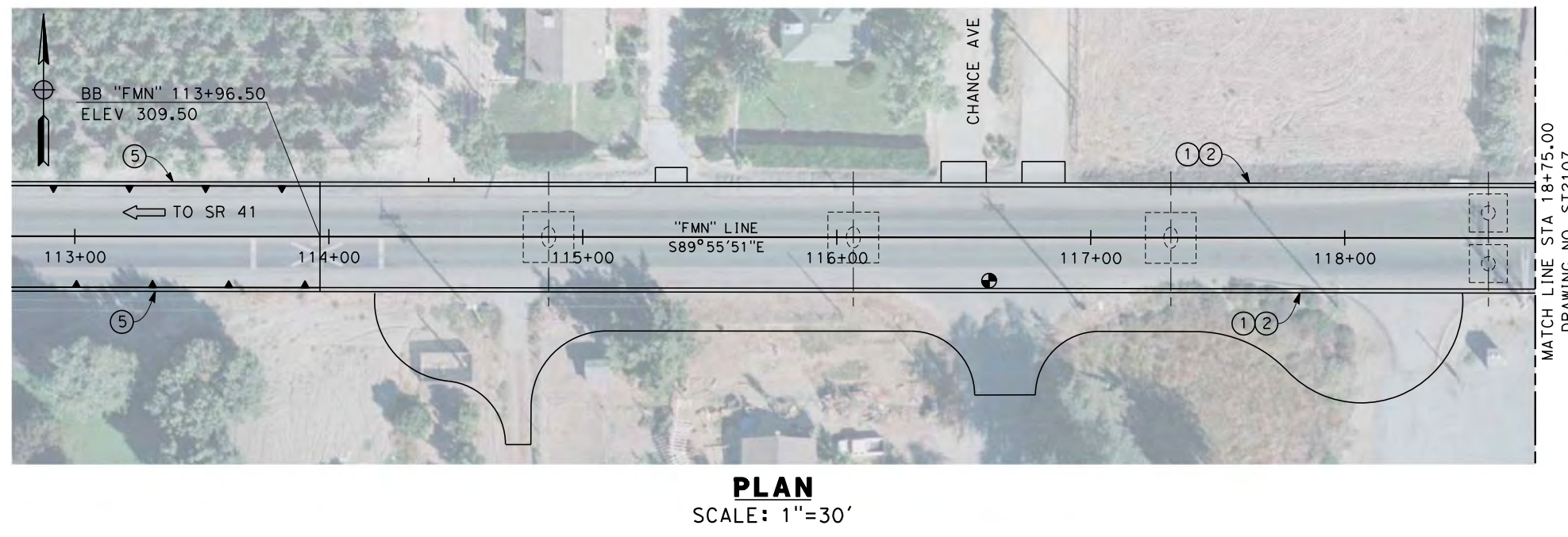
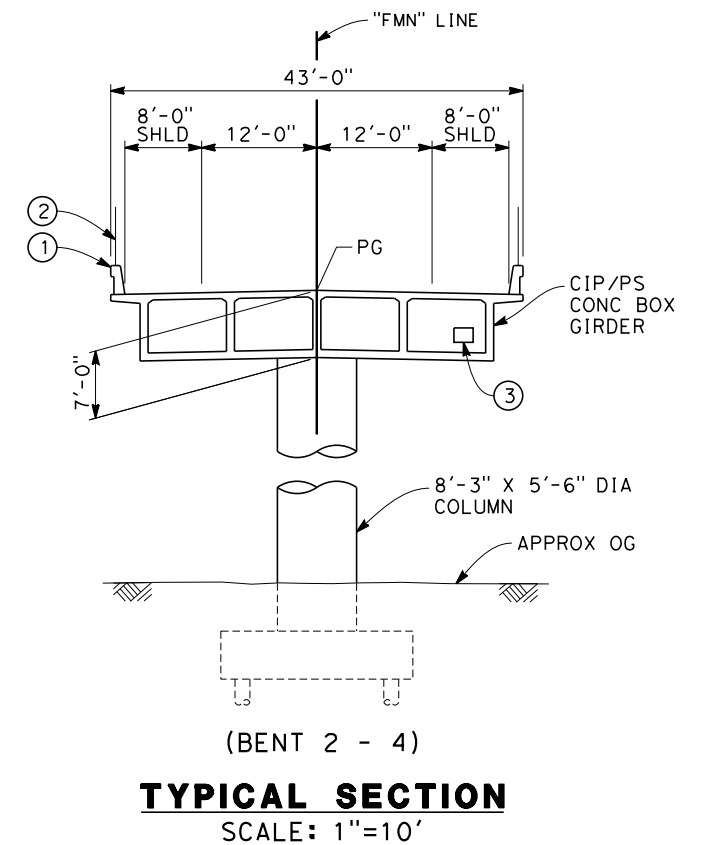
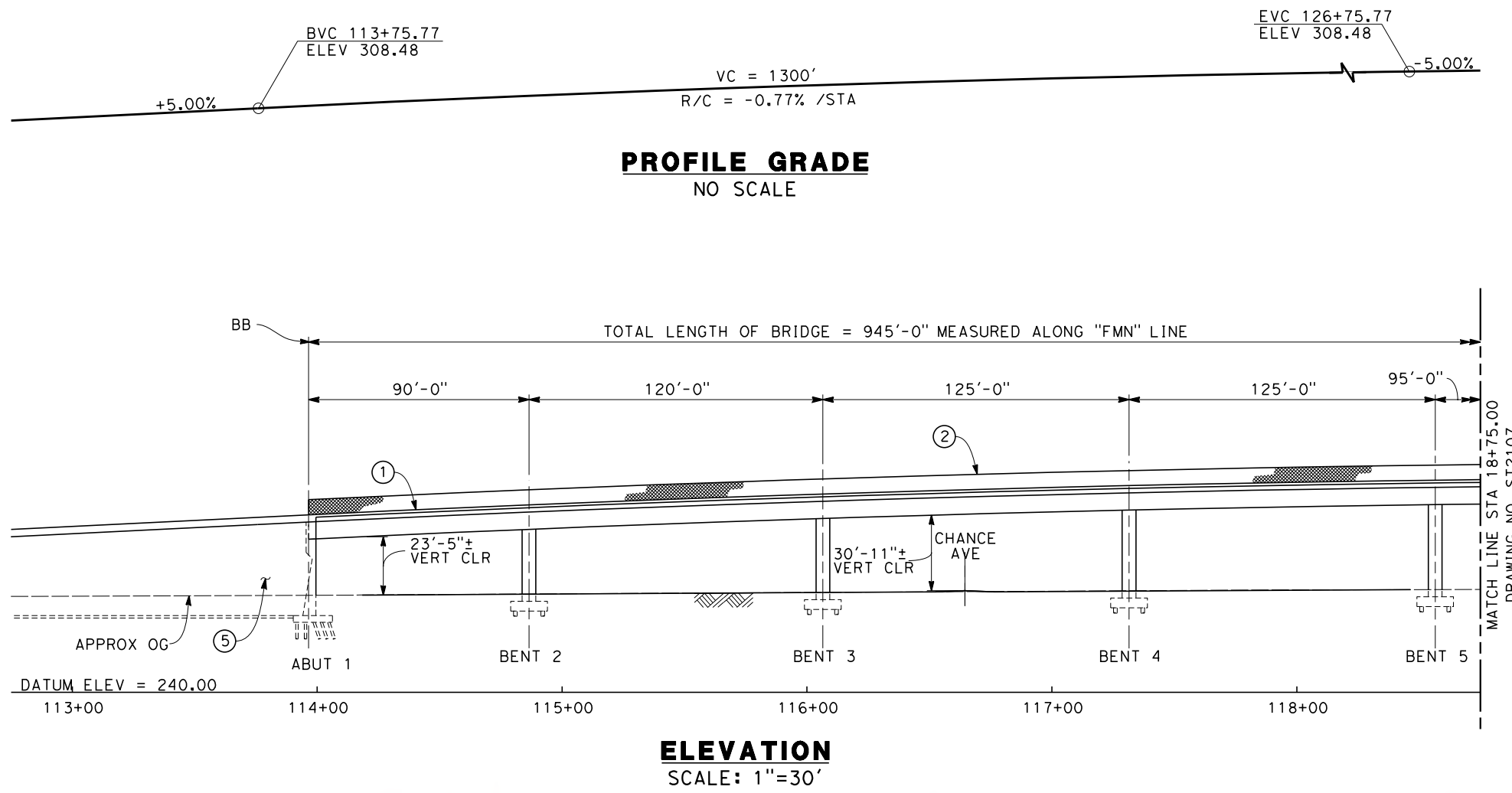
DESIGNED BY  
L. SMITH  
DRAWN BY  
T. PRETZER  
CHECKED BY  
B. LUSCOMBE  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

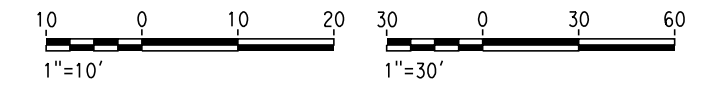


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
E SOUTH AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2104  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 9



- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.
- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASUREMENT OPENING
  - ④ MBGR
  - ⑤ RETAINING WALL WITH BARRIER



12/24/2013 9:29:20 AM c:\pwworking\hmm\external\pre45072\dms91110\FB-ST-2106-M.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
T. PRETZER

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



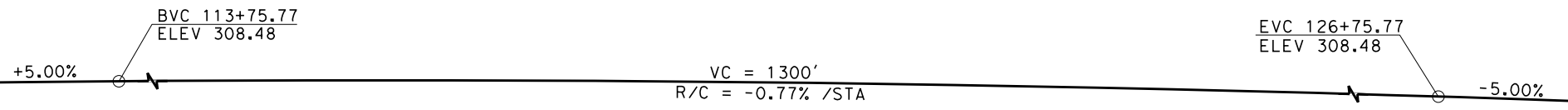
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
E MANNING AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2106

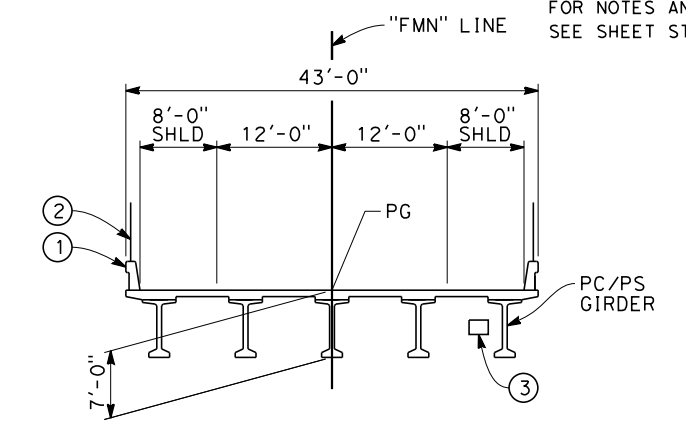
SCALE  
AS SHOWN

SHEET NO.  
5 OF 9

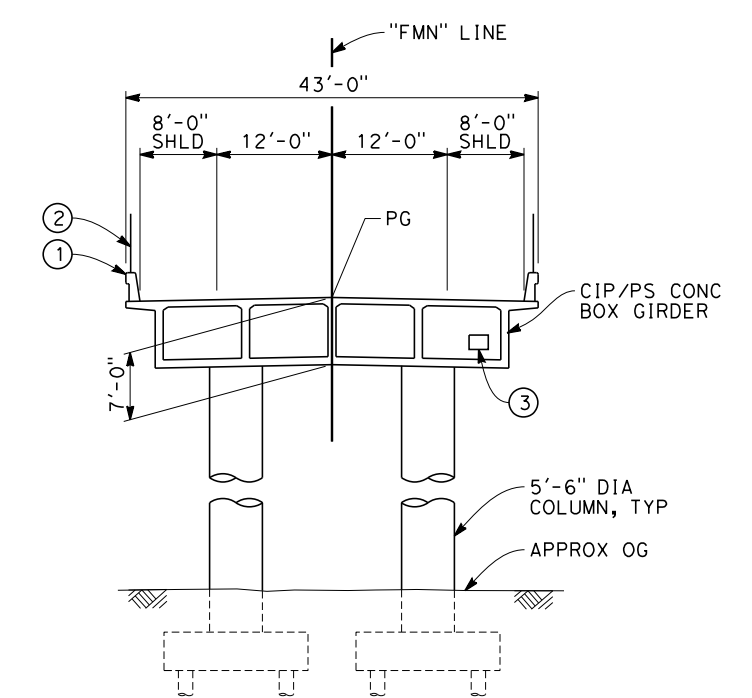


**PROFILE GRADE**  
NO SCALE

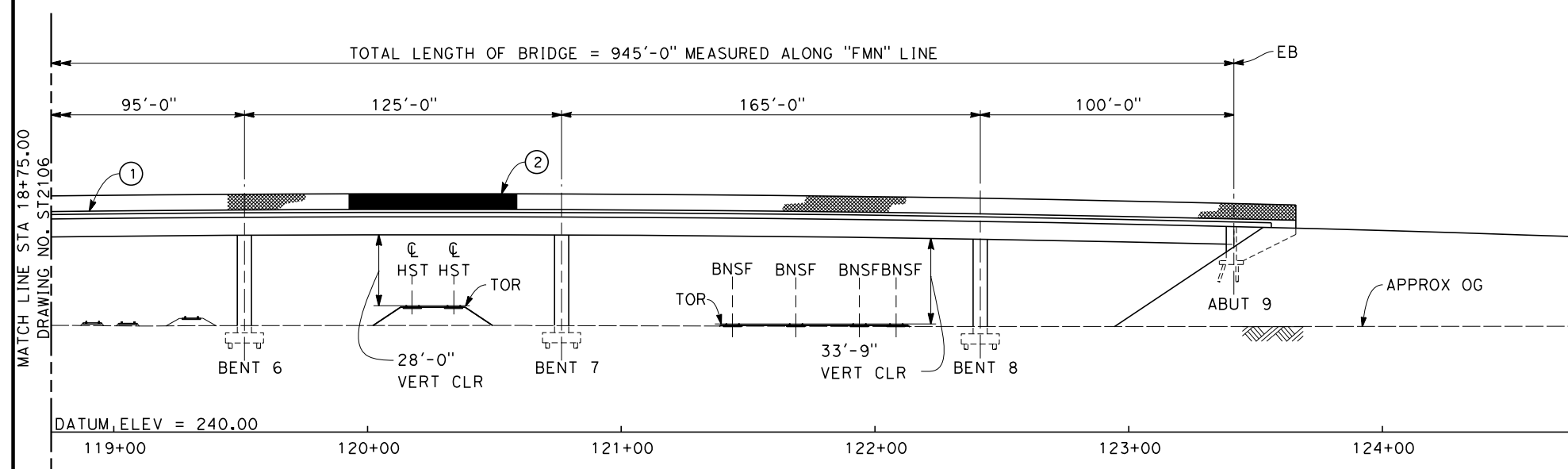
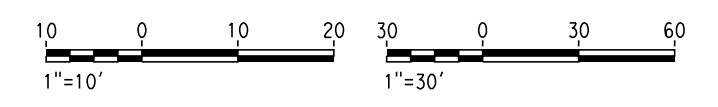
NOTE:  
FOR NOTES AND LEGEND  
SEE SHEET ST2106



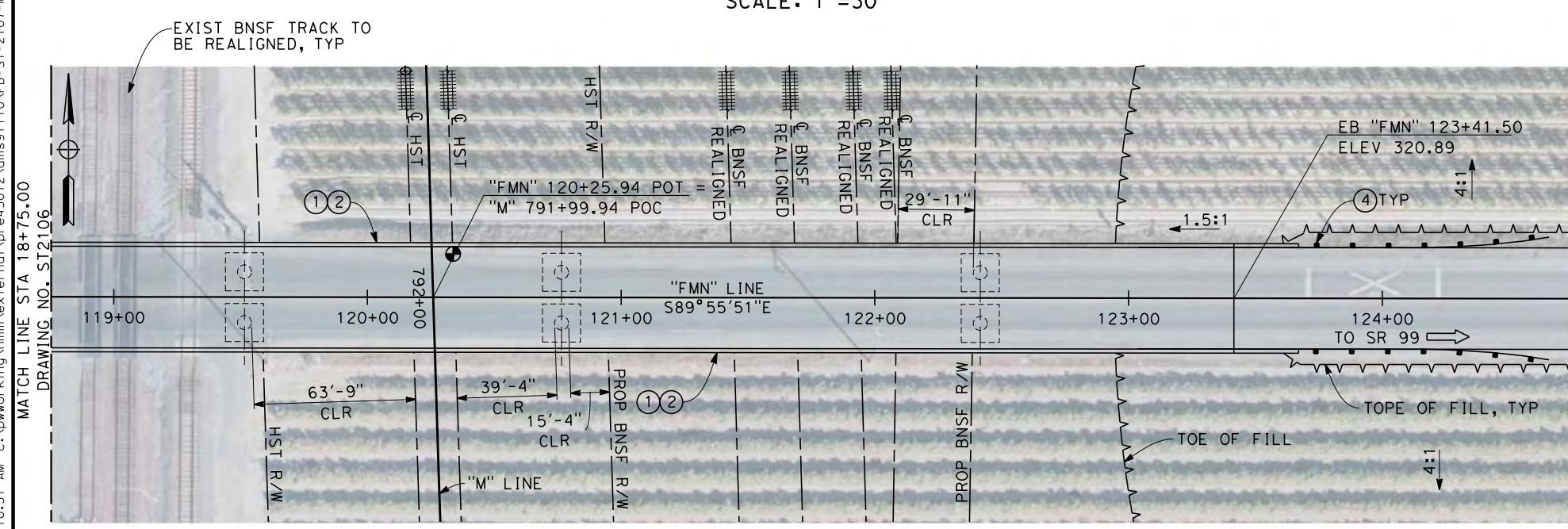
**SECTION OVER BNSF**



(BENT 5 - 8)  
**TYPICAL SECTION**  
SCALE: 1"=10'



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'

12/24/2013 10:10:31 AM c:\pwworking\hmm\external\pre45072\dms91110\FB-ST-2107-M.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

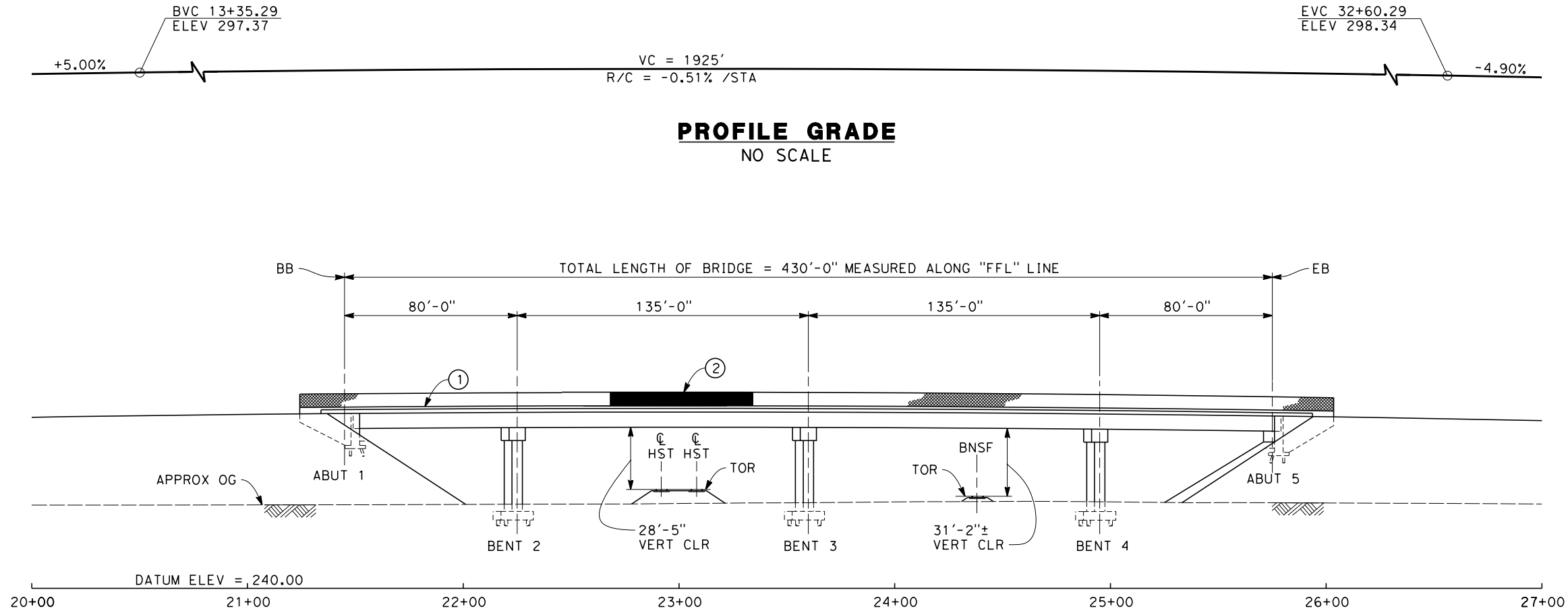
DESIGNED BY  
L. SMITH  
DRAWN BY  
T. PRETZER  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

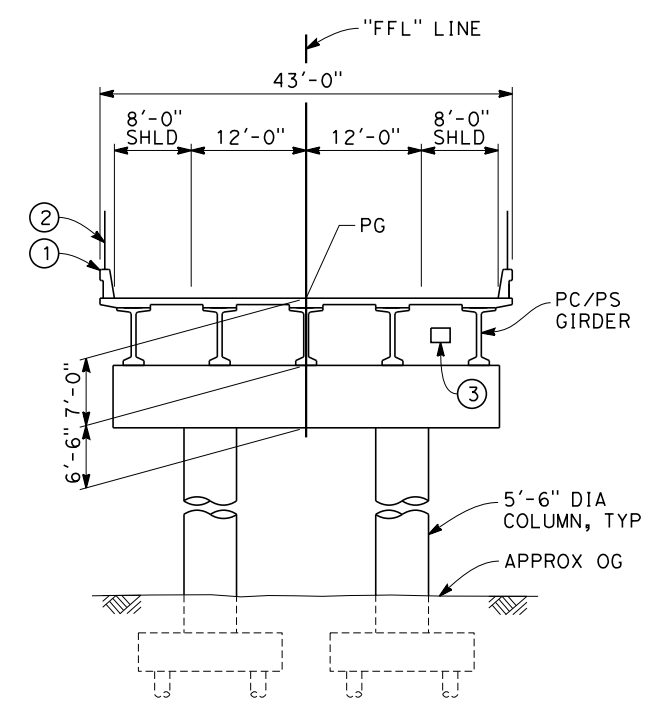


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
E MANNING AVE

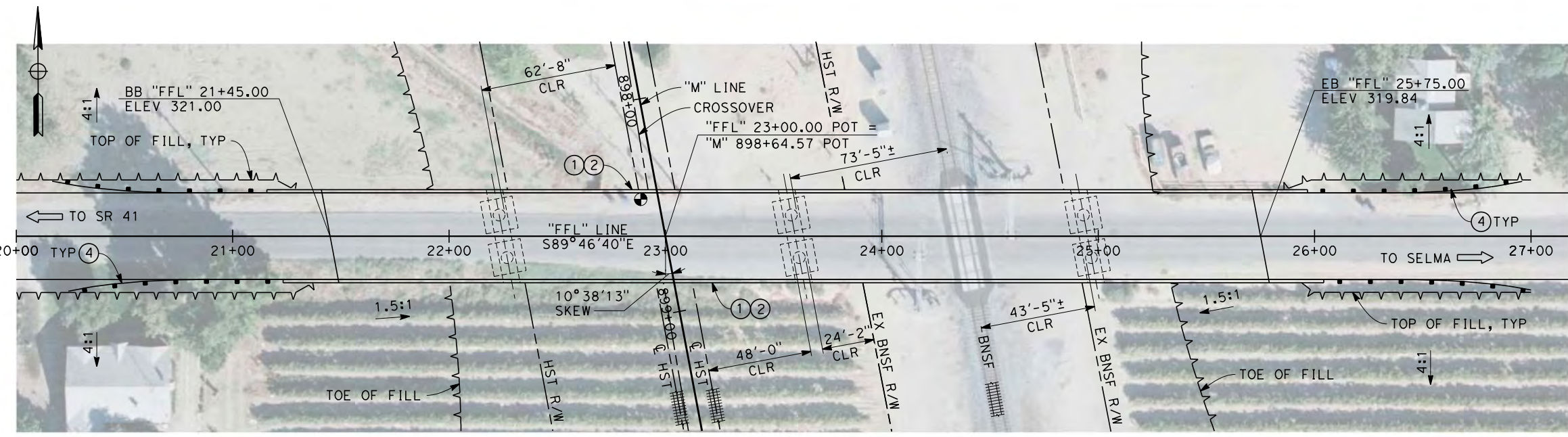
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2107  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 9



**ELEVATION**  
SCALE: 1"=30'



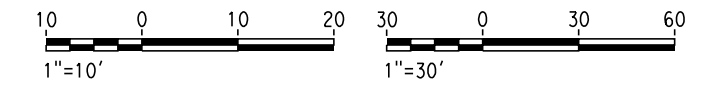
**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AIR FENCE
  - ② AIR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASUREMENT OPENING
  - ④ MBGR



12/24/2013 9:25:28 AM c:\pwworking\hmm\external\pre45072\dms91110\FB-ST-2109-M.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
T. PRETZER

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



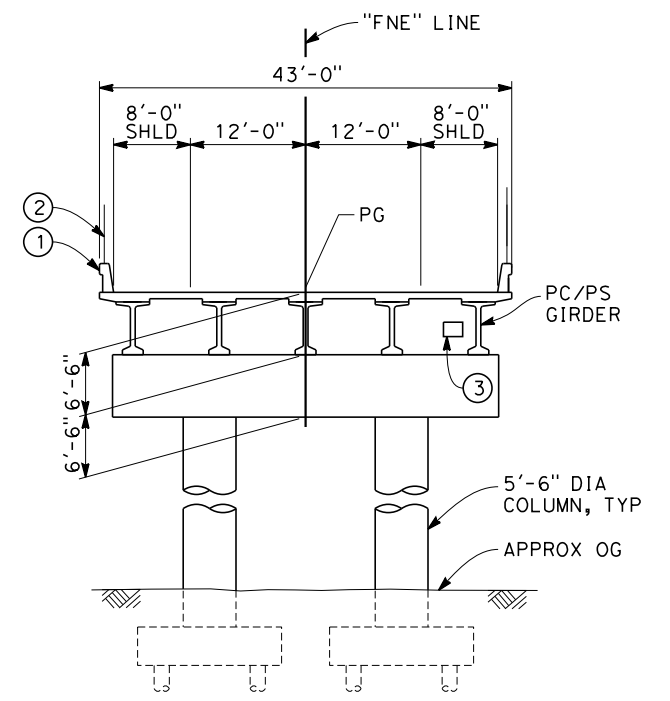
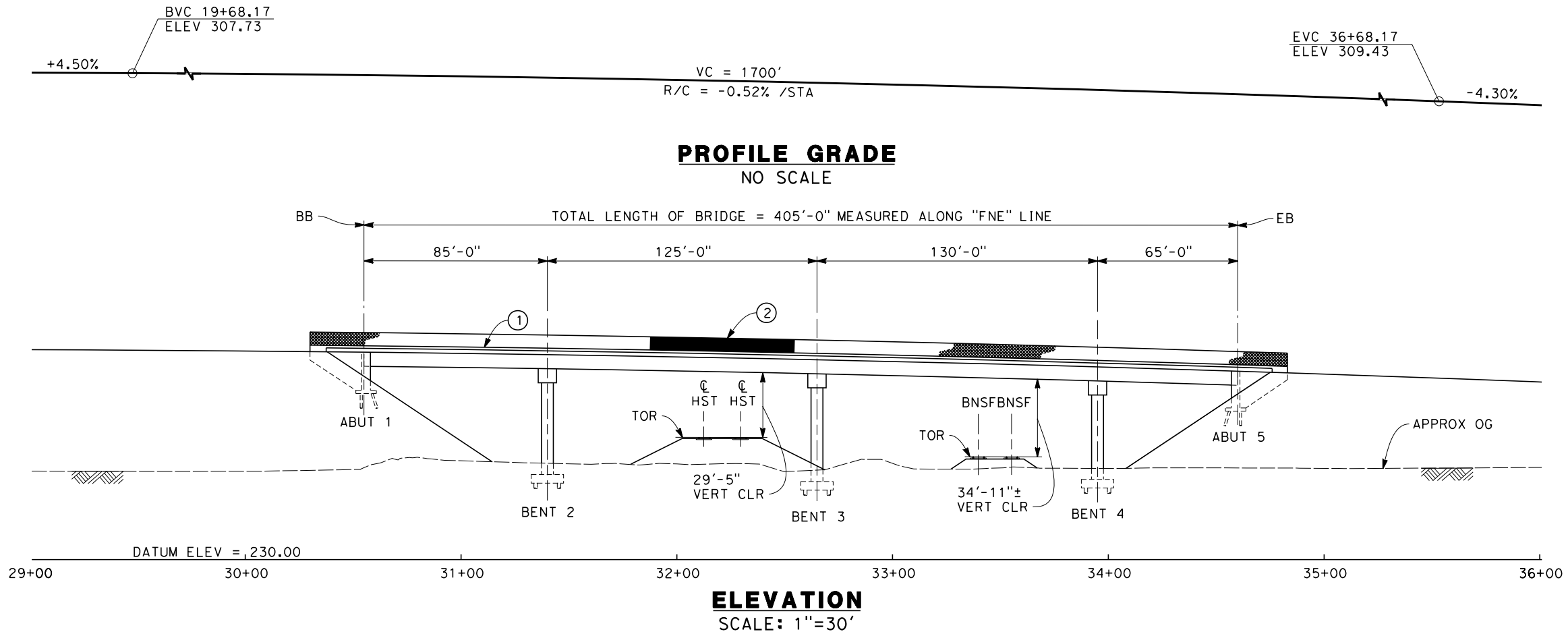
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
E FLORAL AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2109

SCALE  
AS SHOWN

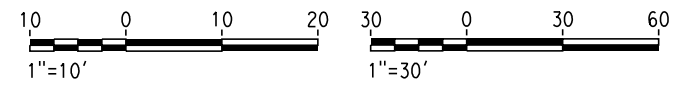
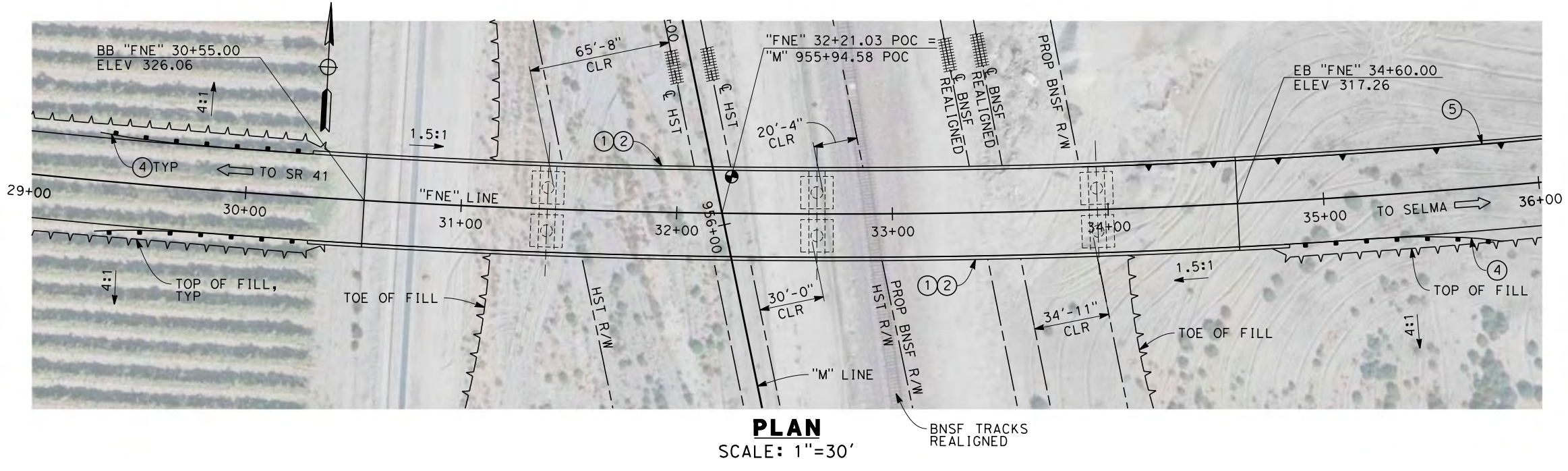
SHEET NO.  
7 OF 9



**TYPICAL SECTION**  
SCALE: 1"=10'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASUREMENT OPENING
  - ④ MBGR
  - ⑤ RETAINING WALL



12/24/2013 9:05:27 AM c:\pwworking\hmm\external\pre45072\dms91110\FB-ST-2111-M.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

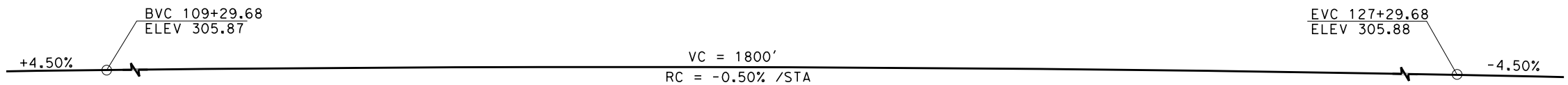
DESIGNED BY  
L. SMITH  
DRAWN BY  
T. PRETZER  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

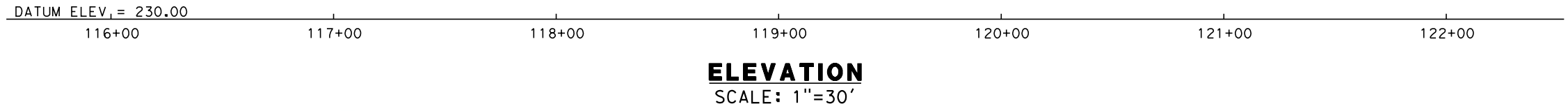
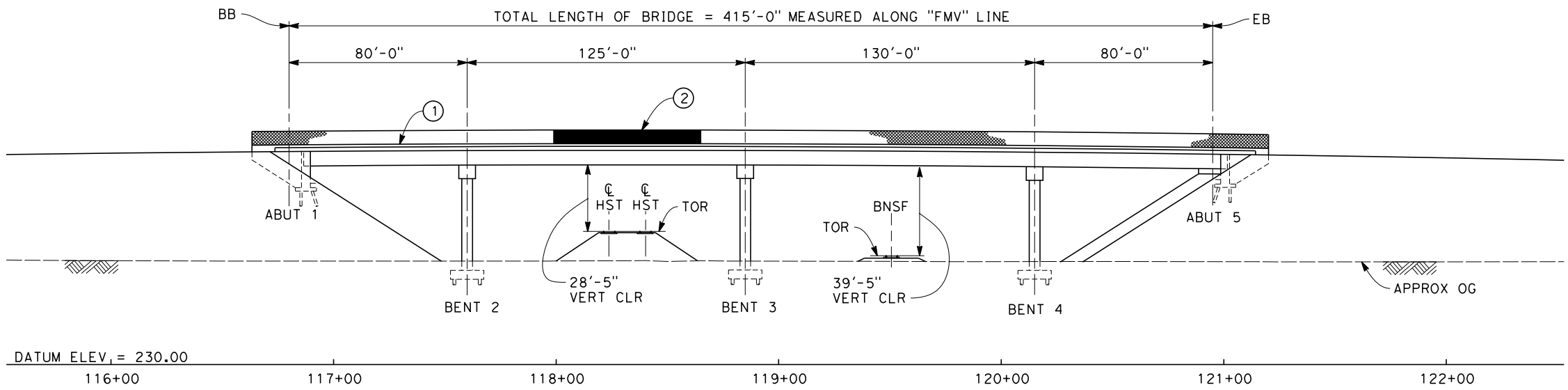


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
E NEBRASKA AVE

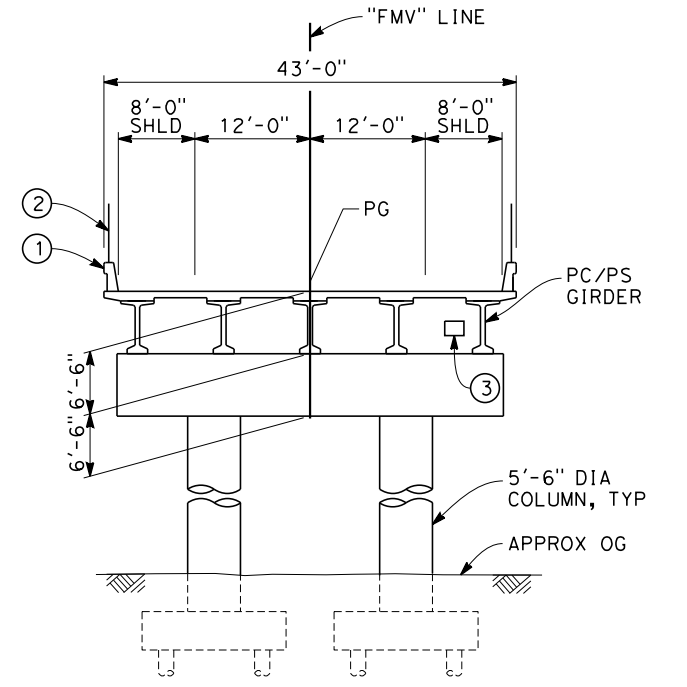
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2111  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 9



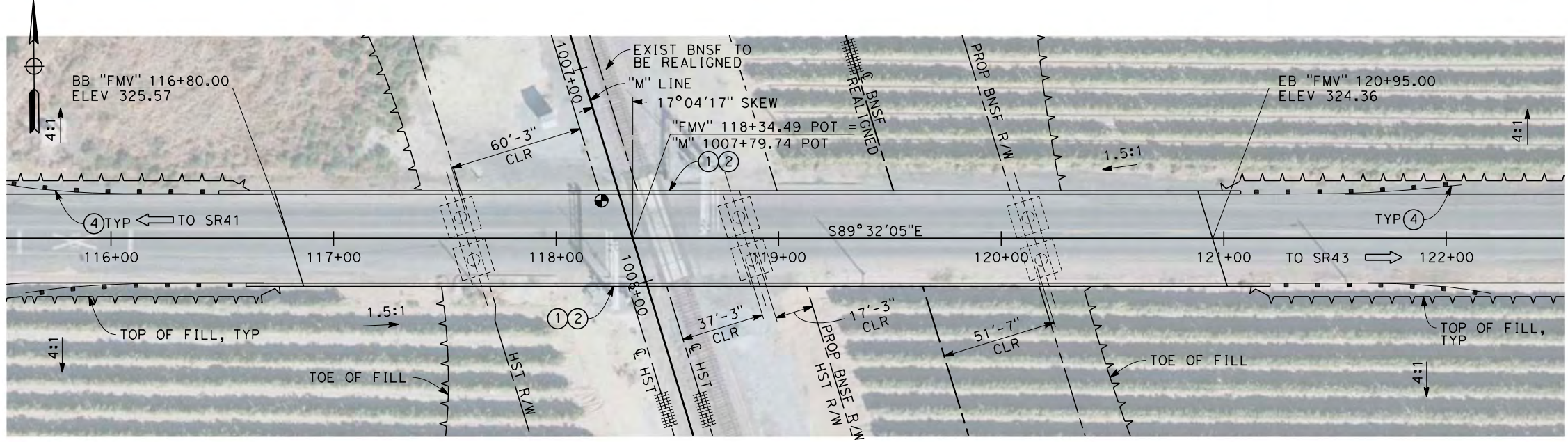
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



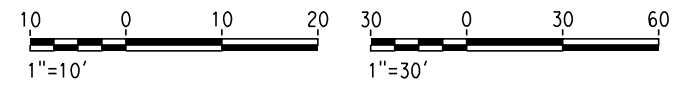
**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/24/2013 9:32:45 AM c:\pwworking\hmm\external\pre45072\dms91110\FB-ST-2113-M.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH  
DRAWN BY  
T. PRETZER  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
MONMOUTH SUBSECTION  
ALIGNMENT M  
OVERHEAD PLANNING STUDY  
E MOUNTAIN VIEW AVE

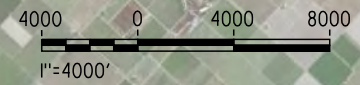
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2113  
SCALE  
AS SHOWN  
SHEET NO.  
9 OF 9

12/27/2013 11:22:14 AM c:\pwworking\hmm\external\bar59603\dms91106\FB-SB-0050-H.dgn



**LEGEND**

- +—+— EXISTING FREIGHT RAILROAD
- PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**M. ANDREWS**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



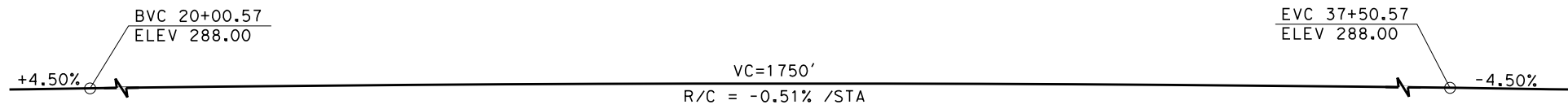
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 HANFORD SUBSECTION  
 ALIGNMENT H  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
HSR 06-0003

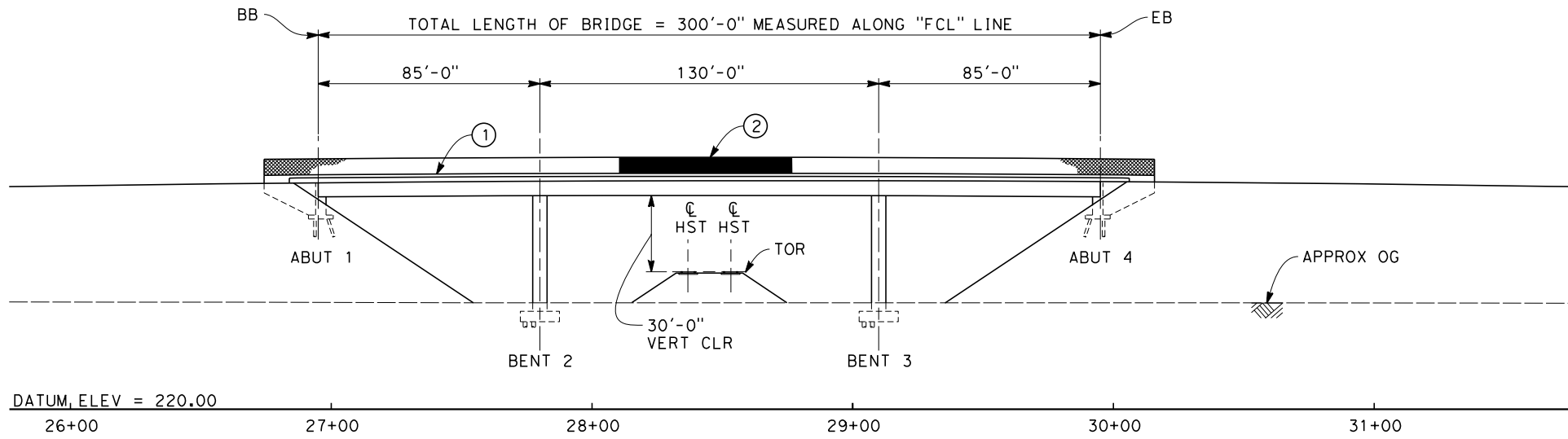
DRAWING NO.  
SB0050

SCALE  
AS SHOWN

SHEET NO.  
1 OF 14



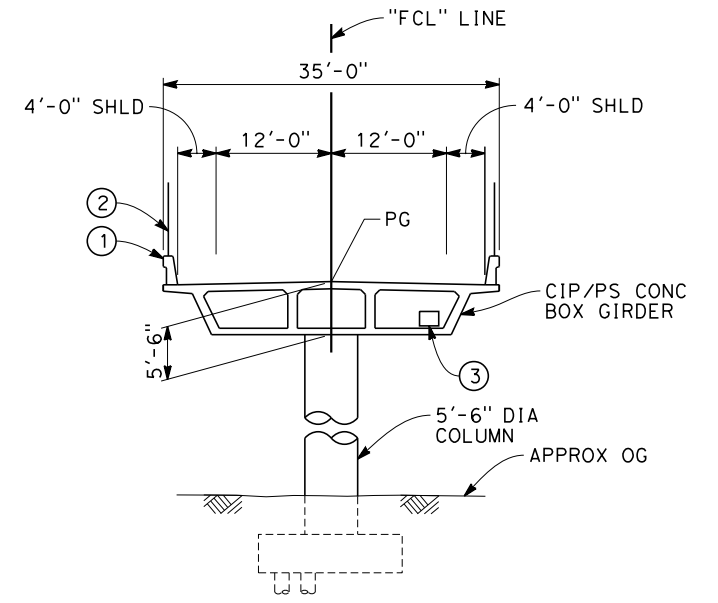
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



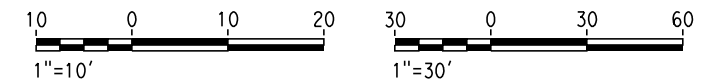
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/26/2013 4:36:31 PM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2117-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

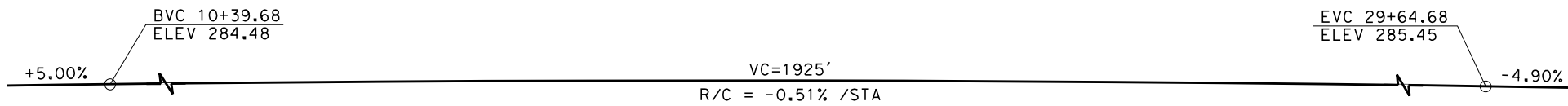
**NOT FOR  
CONSTRUCTION**



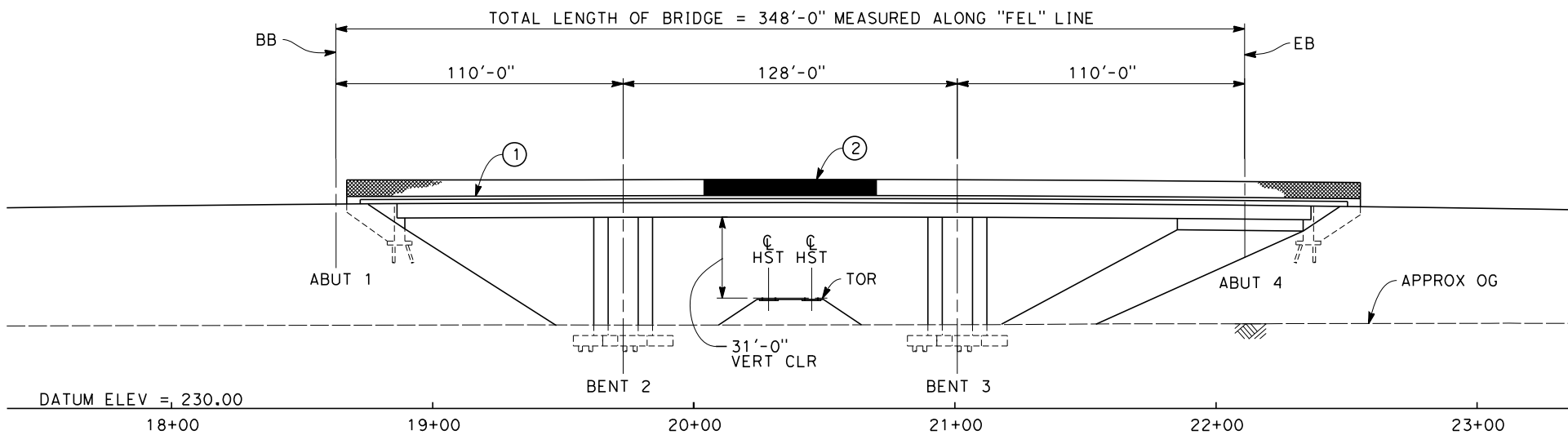
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
S CLOVIS AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2117  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 14

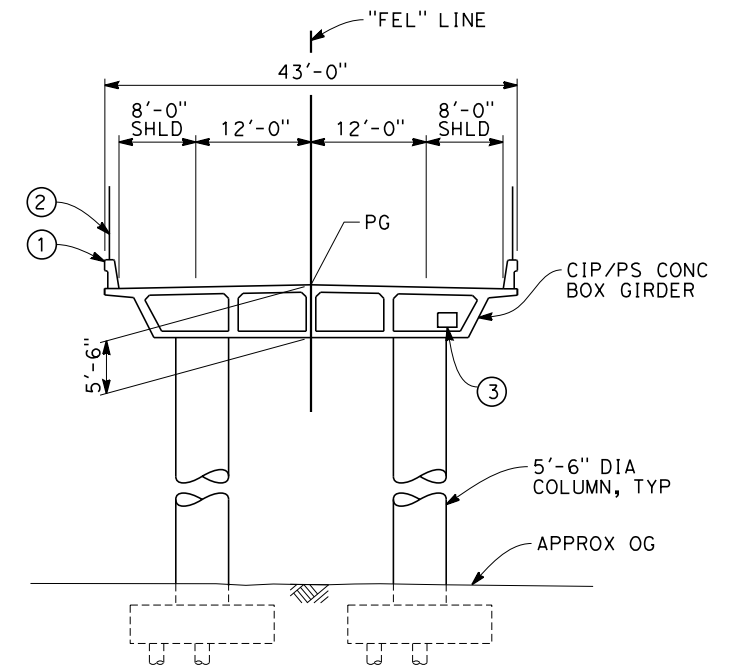




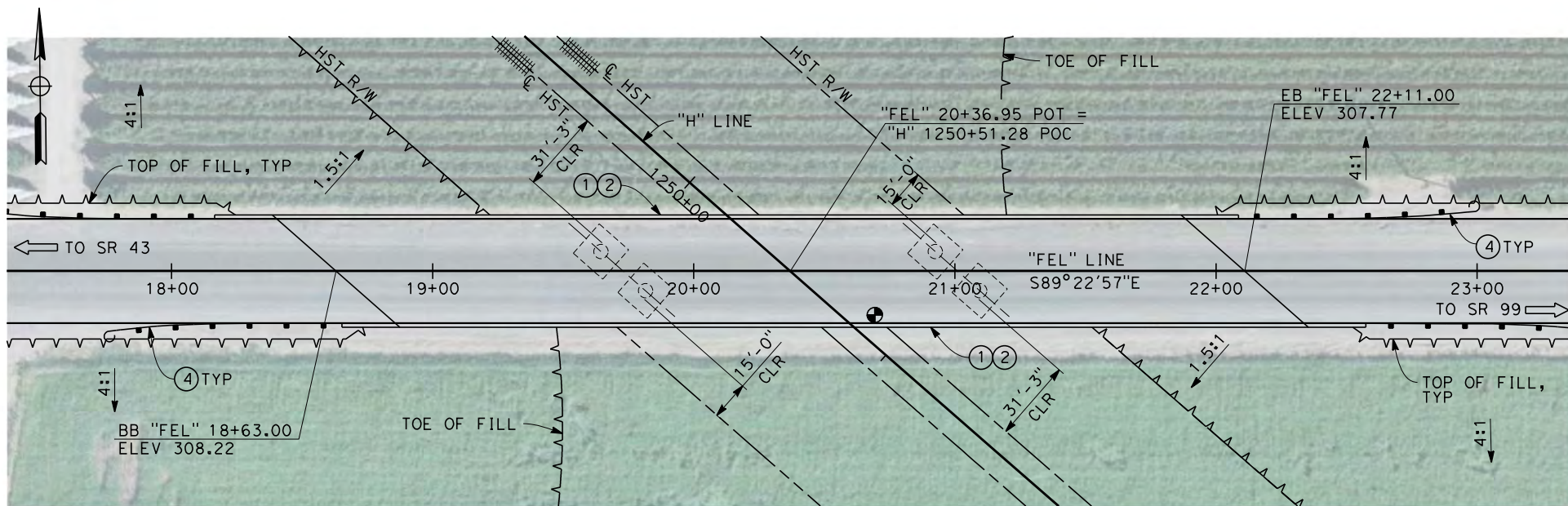
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



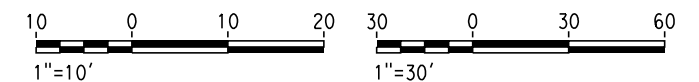
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/26/2013 4:47:49 PM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2119-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

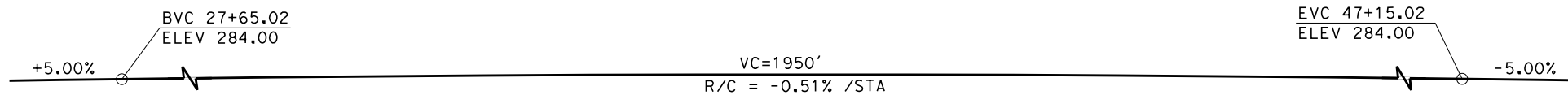
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

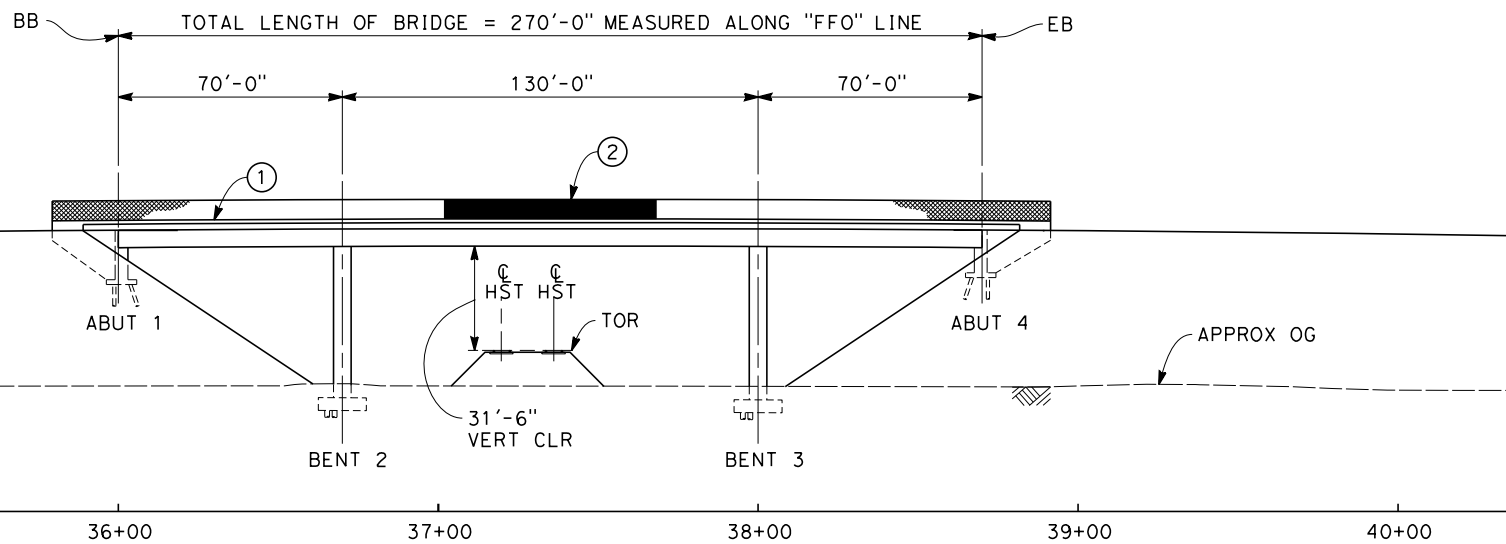


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
E ELKHORN AVE

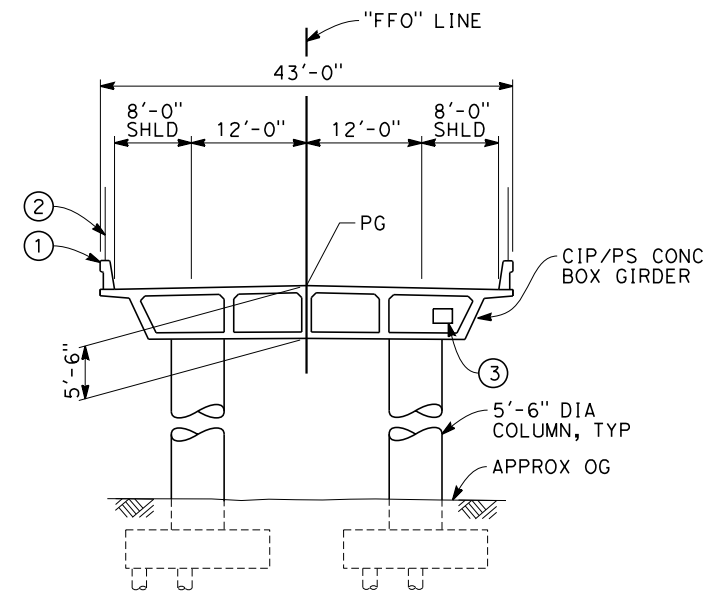
CONTRACT NO. HSR 06-0003
DRAWING NO. ST2119
SCALE AS SHOWN
SHEET NO. 3 OF 14



**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



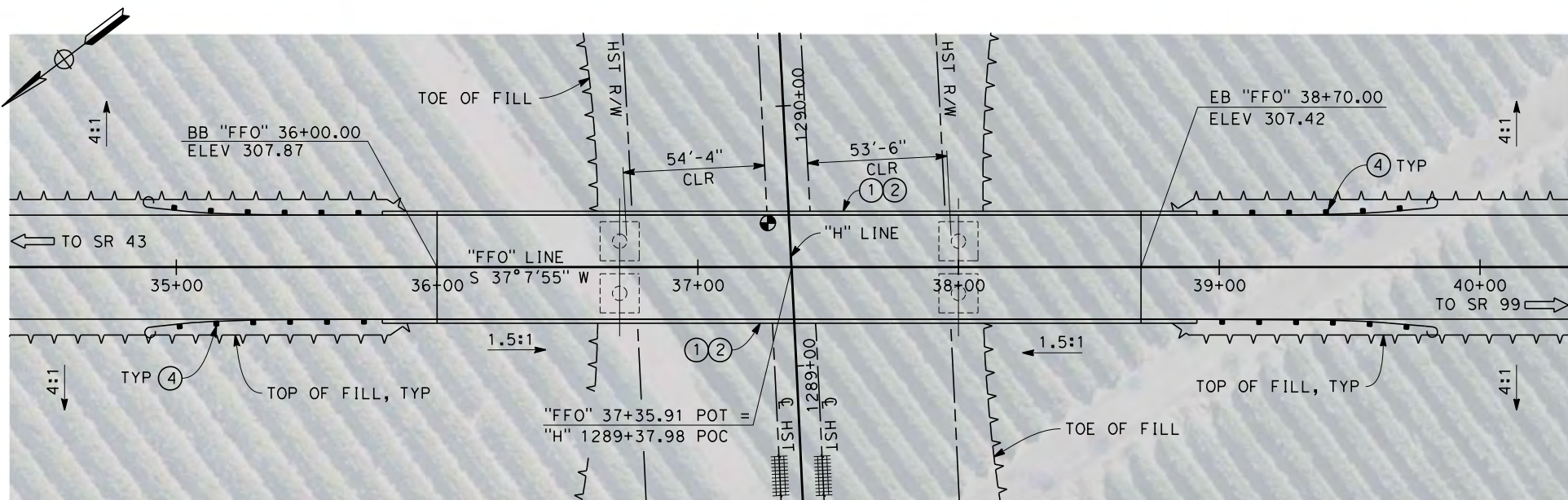
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

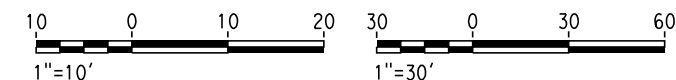
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



**PLAN**  
SCALE: 1"=30'



12/27/2013 7:46:49 AM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2121-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

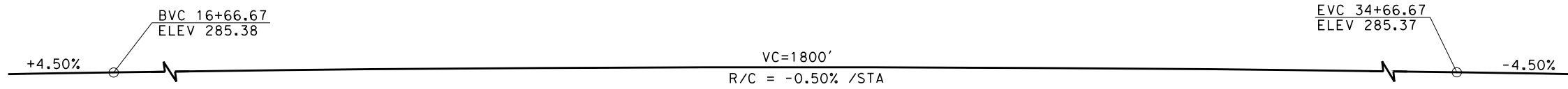
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

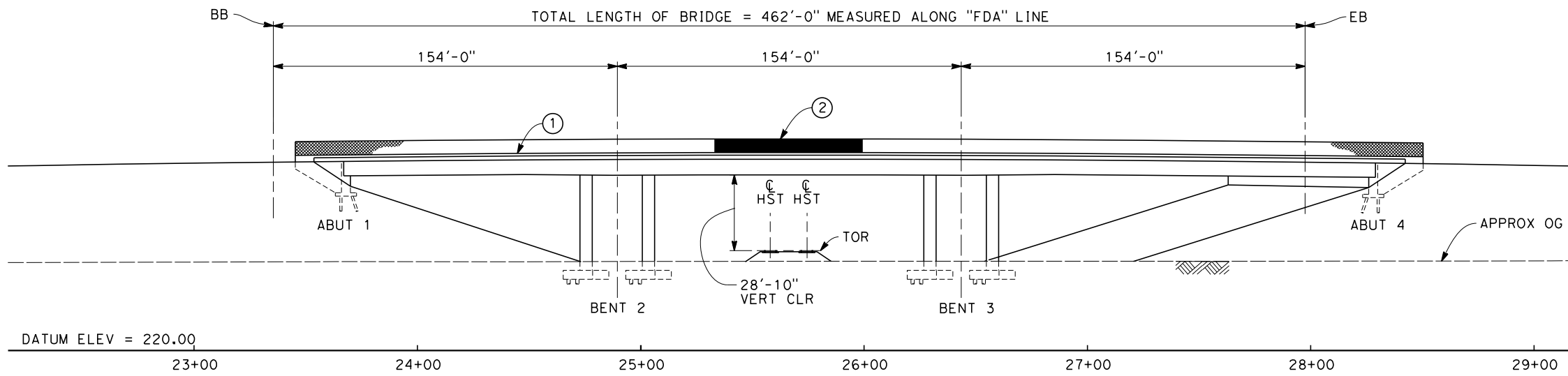


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
S FOWLER AVE

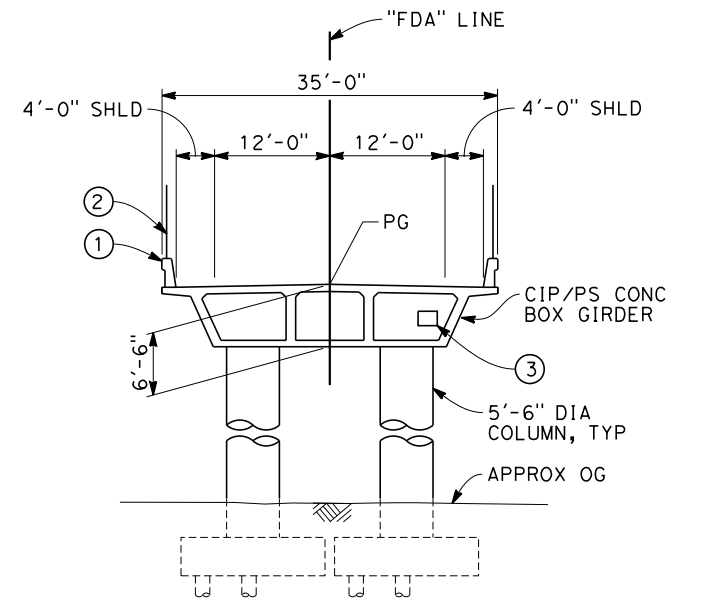
CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2121
SCALE	AS SHOWN
SHEET NO.	4 OF 14



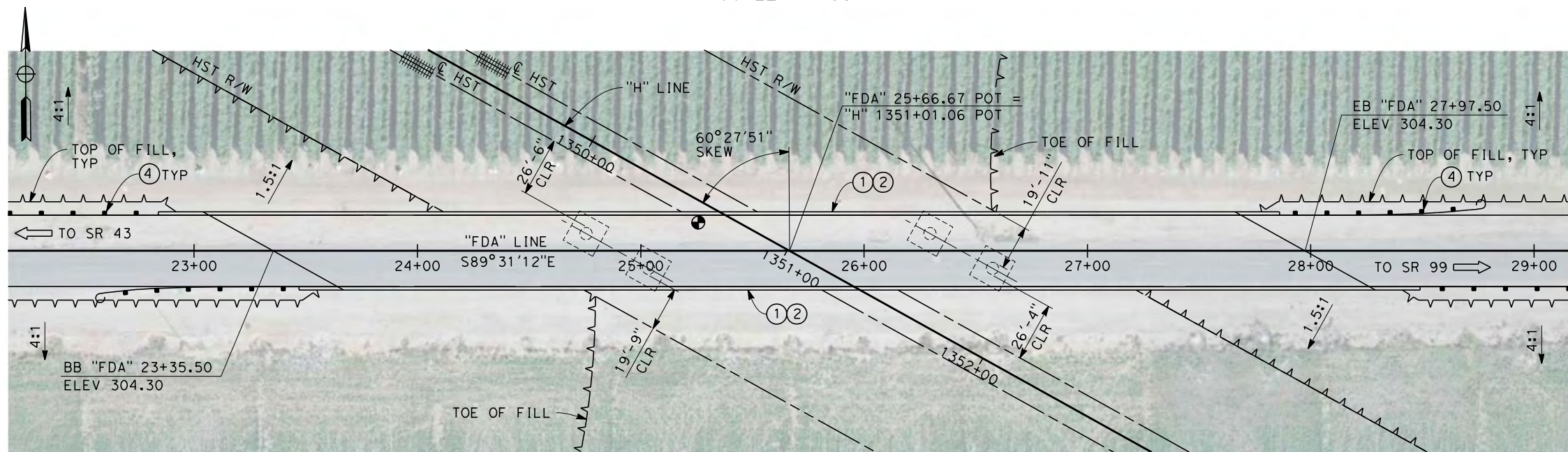
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



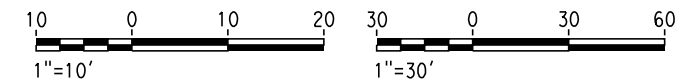
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



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REV	DATE	BY	CHK	APP	DESCRIPTION

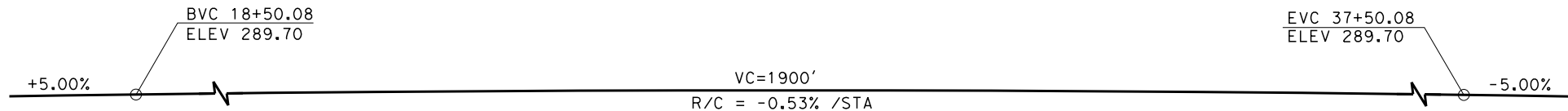
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

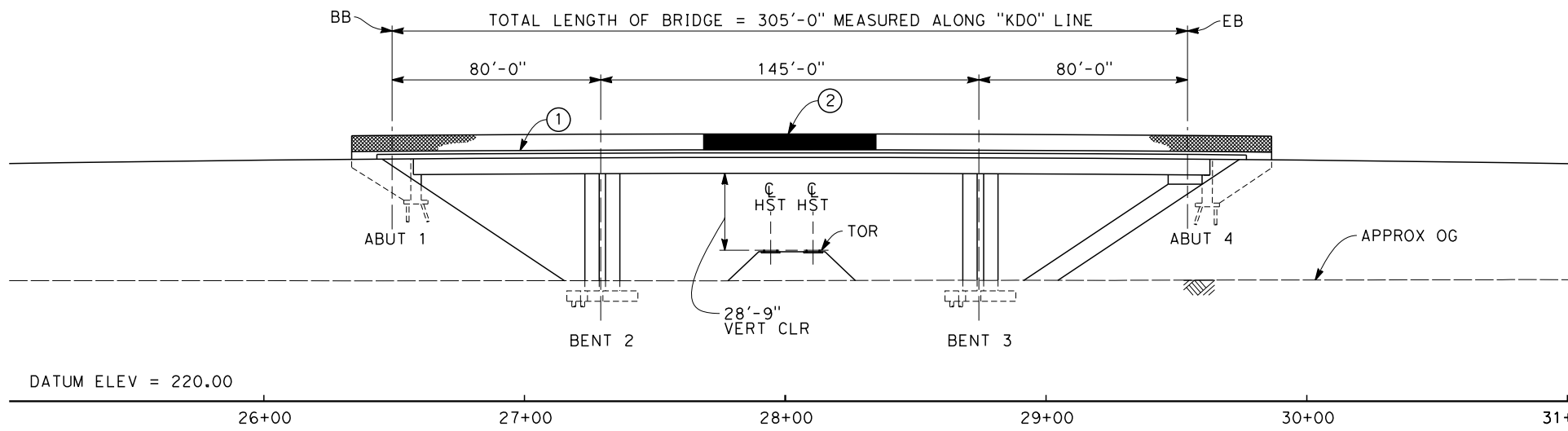


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
E DAVIS AVE

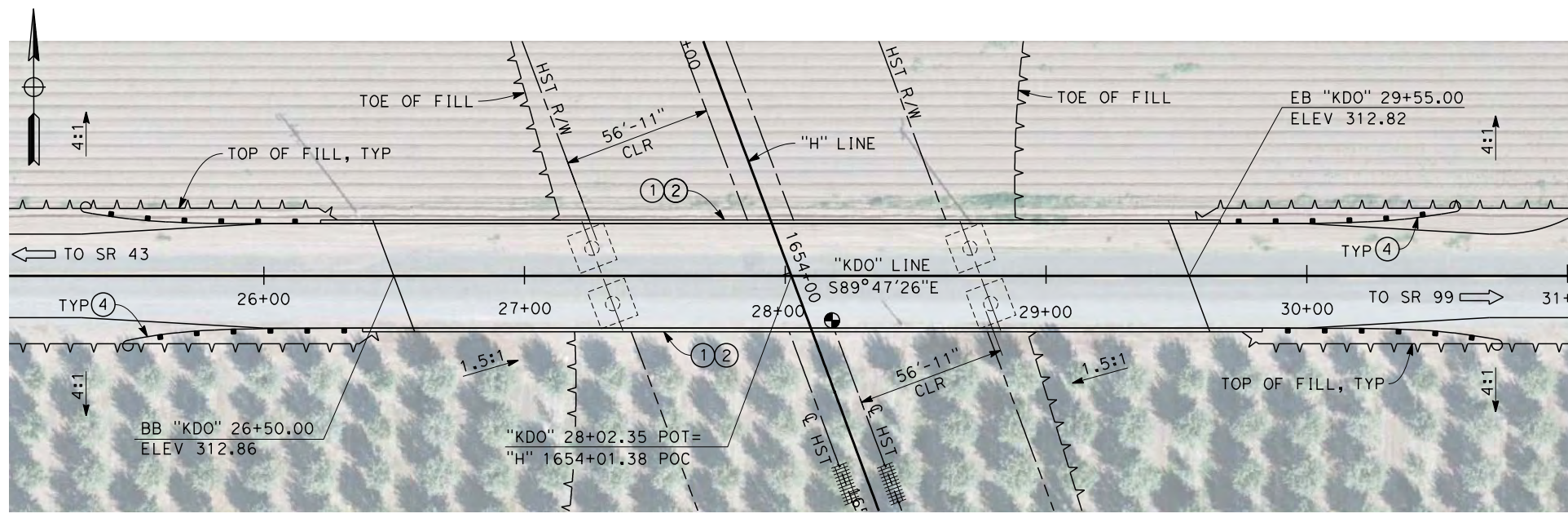
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2123  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 14



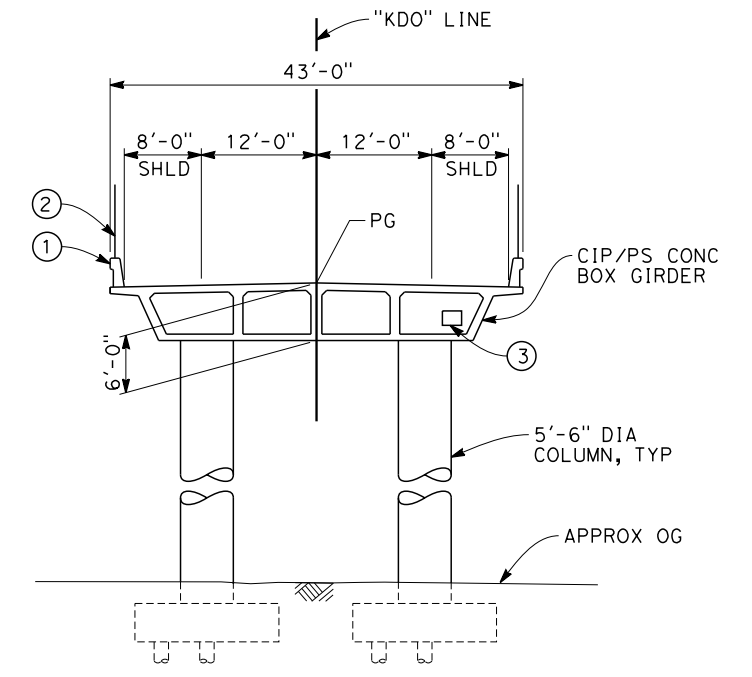
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'

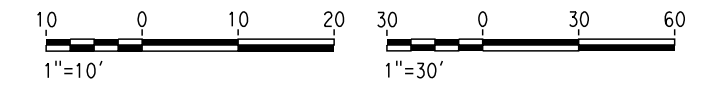


**PLAN**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'

- NOTES:
- ALL PILES NOT SHOWN
  - FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.
- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/27/2013 12:53:00 PM c:\pwworking\hmm\external\lus60322\dms91106\FB-ST-2129-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

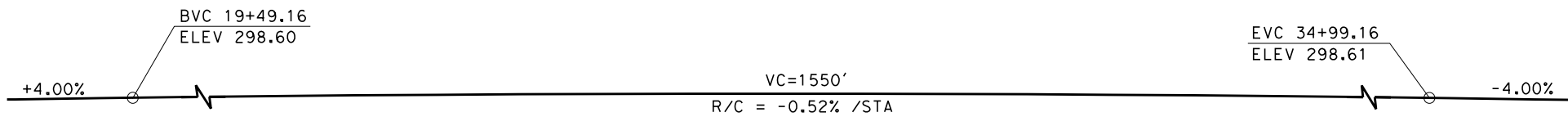
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

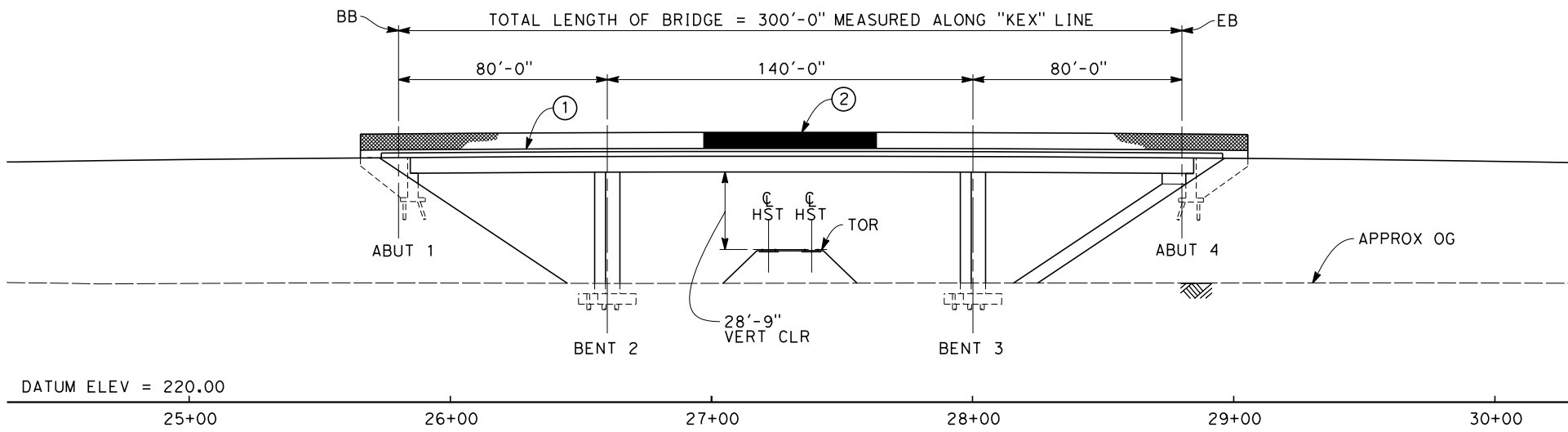


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
DOVER AVE

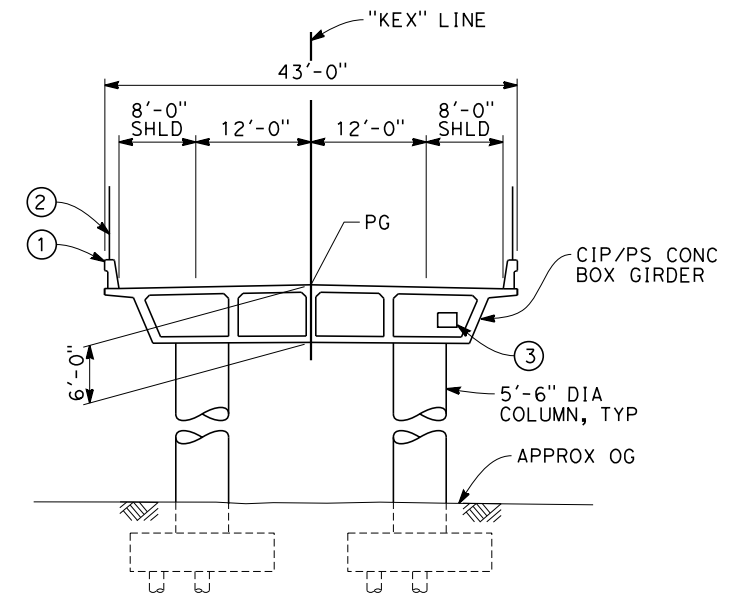
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2129  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 14



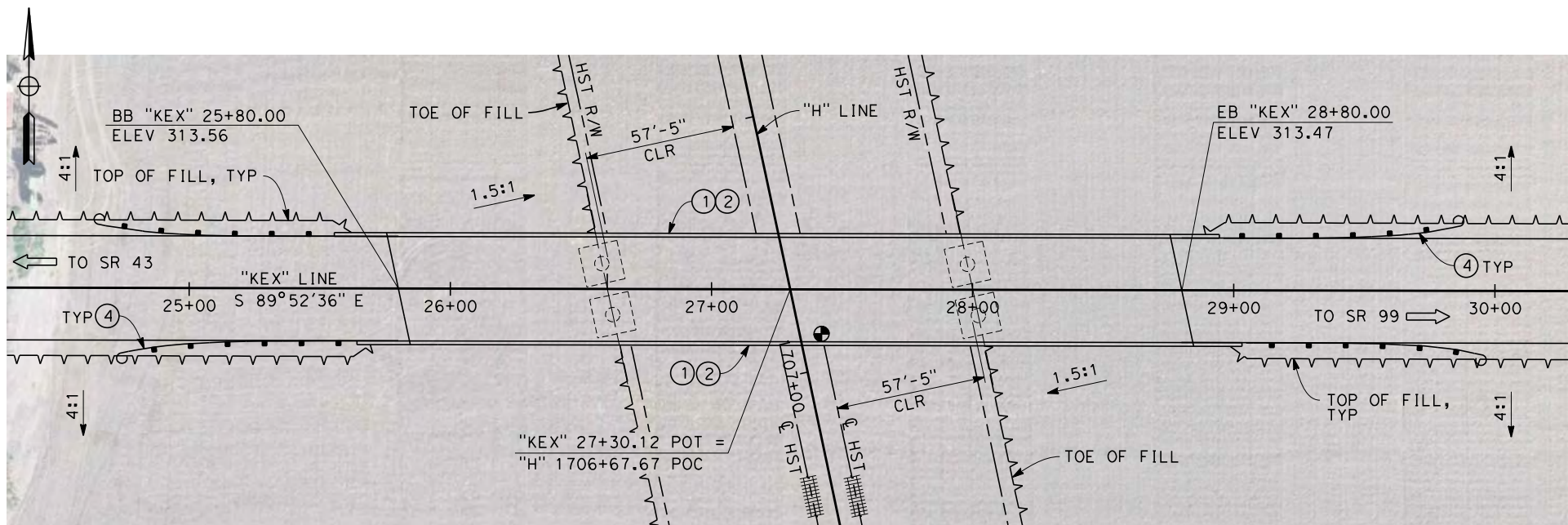
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



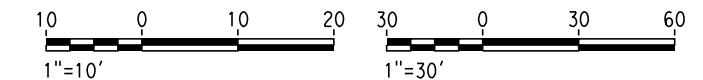
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 8:40:20 AM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2133-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

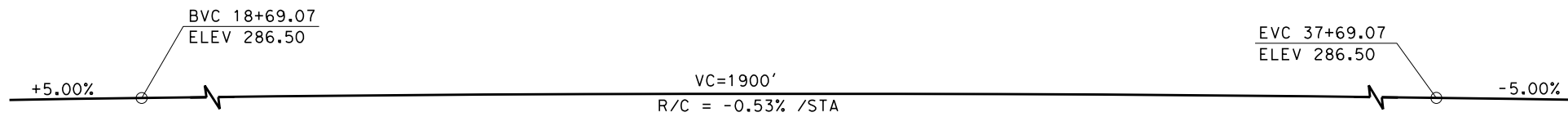
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

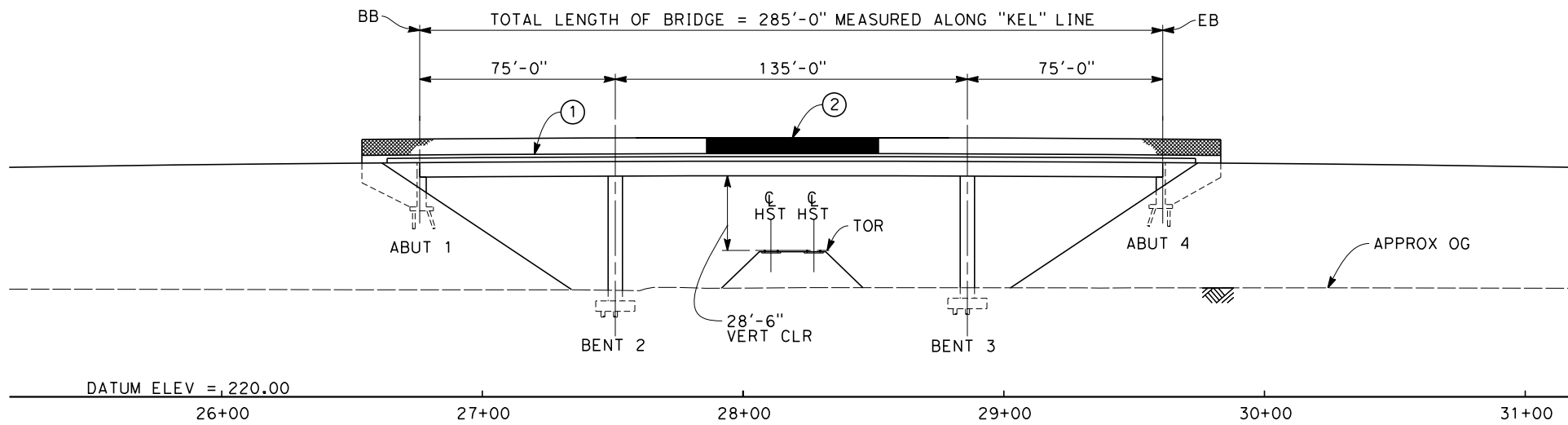


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
EXCELSIOR AVE

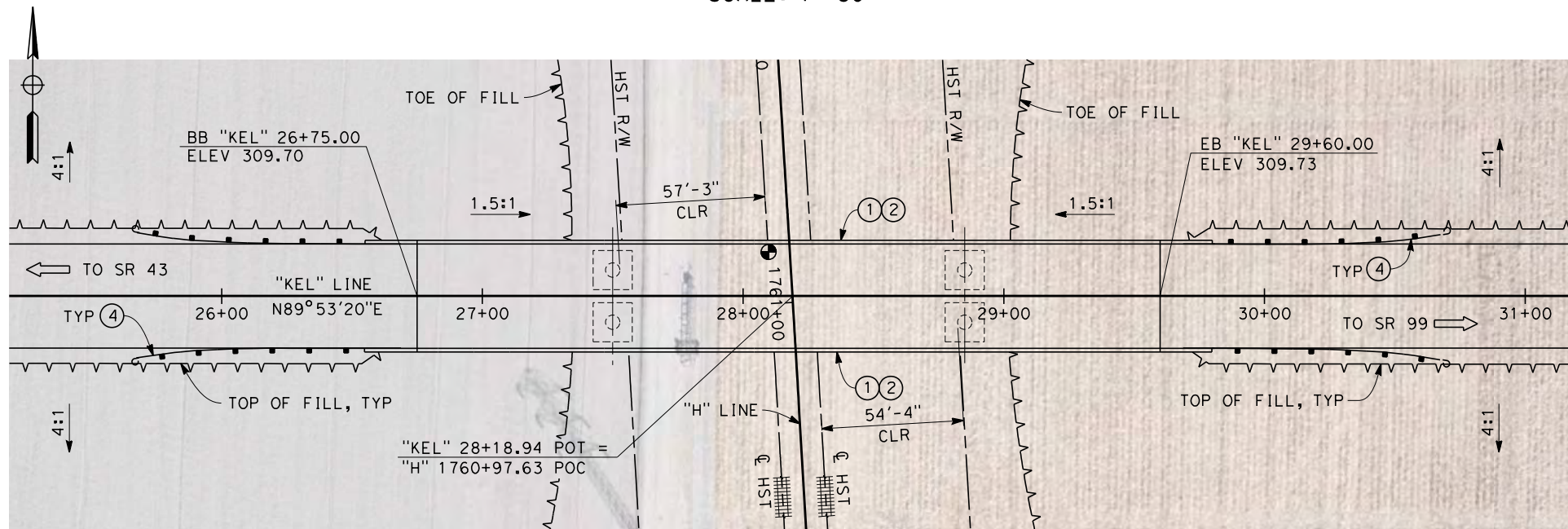
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HSR 06-0003  
DRAWING NO.  
ST2133  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 14



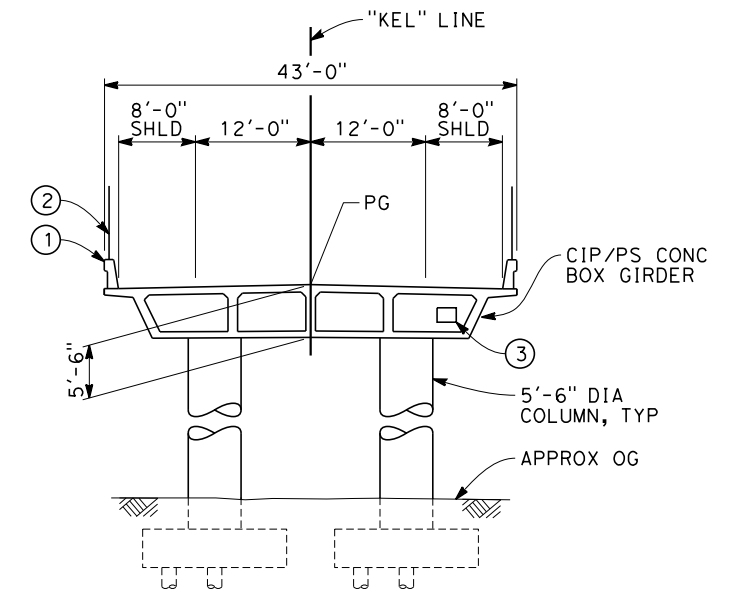
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



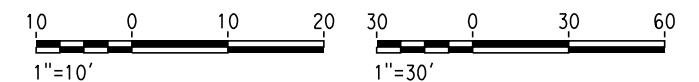
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 8:50:33 AM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2135-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

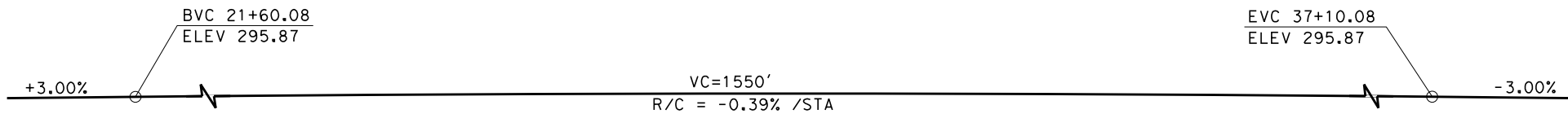
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

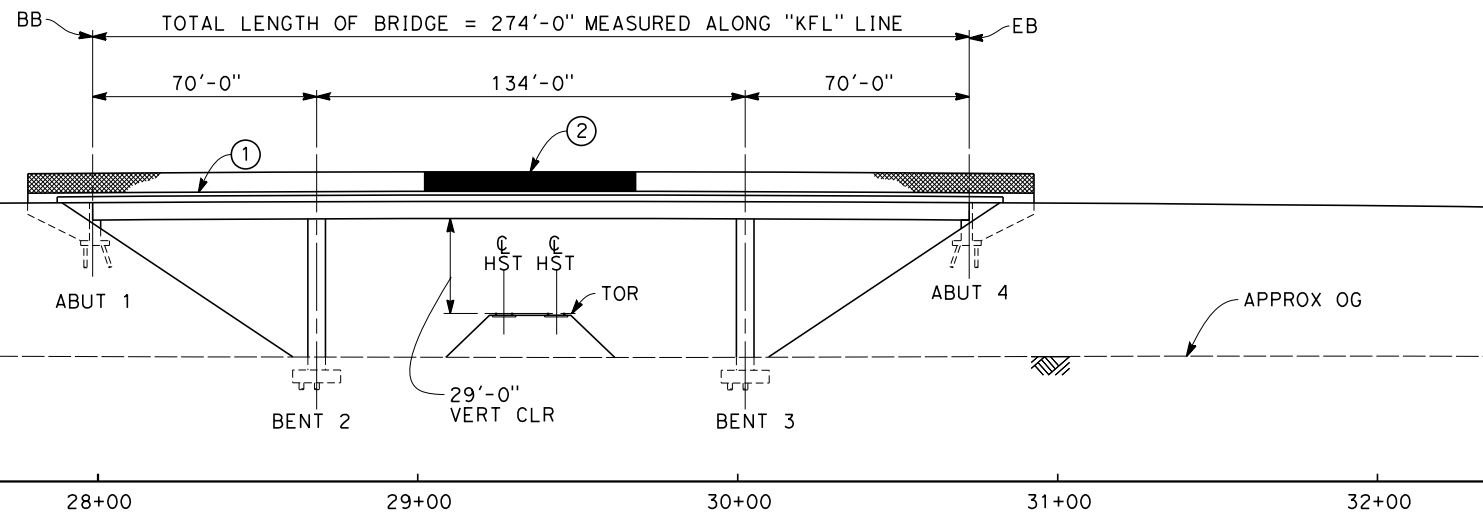


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
ELDER AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2135  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 14

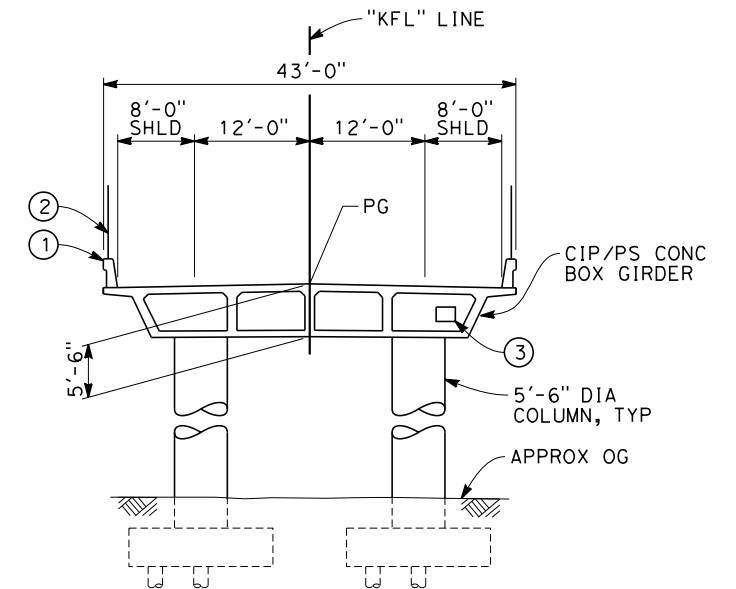


**PROFILE GRADE**  
NO SCALE

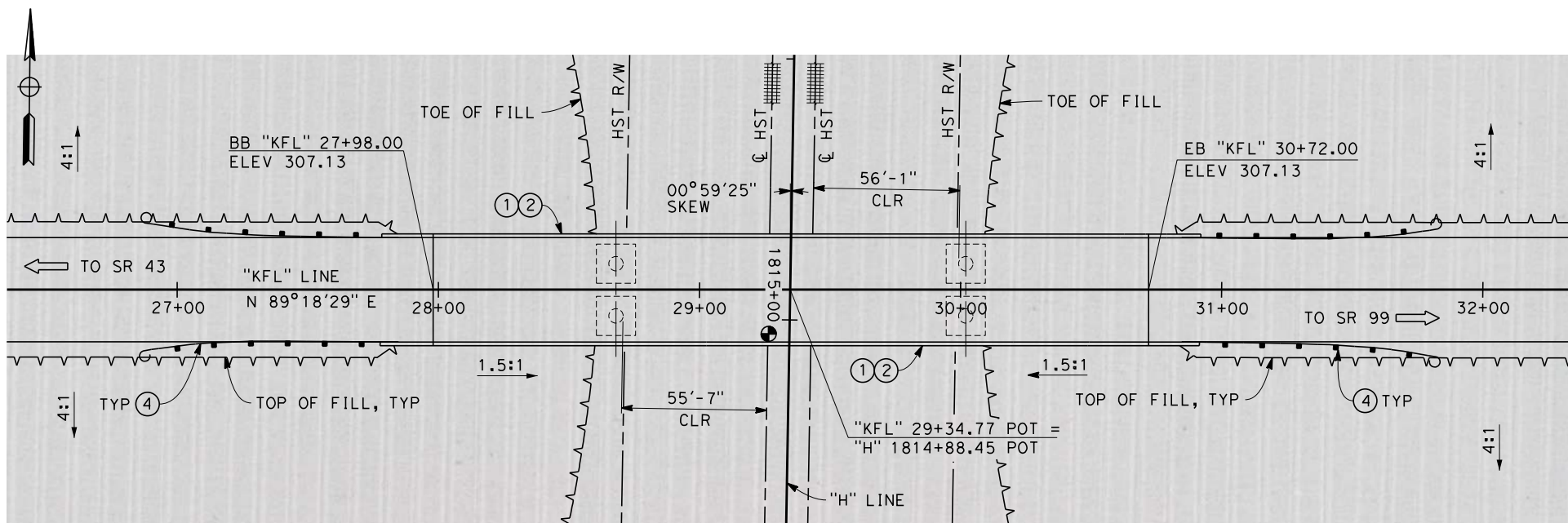


DATUM ELEV<sub>1</sub> = 220.00

**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



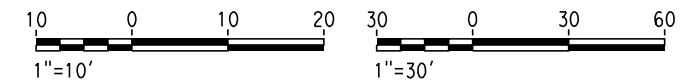
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 9:10:28 AM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2137-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

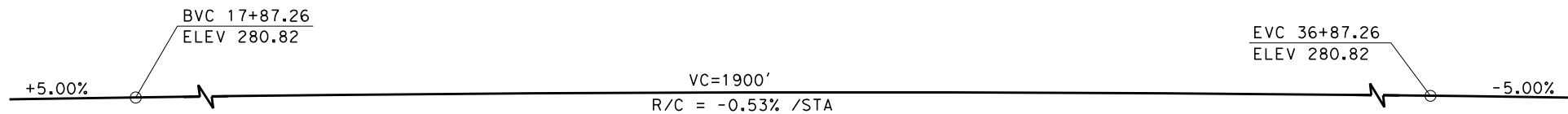
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

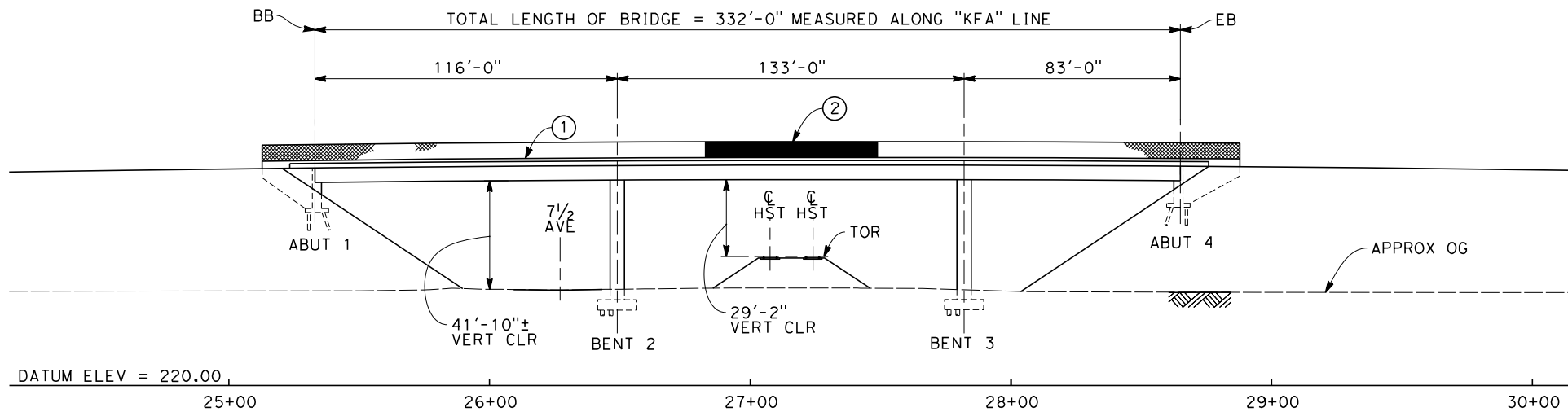


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
FLINT AVE

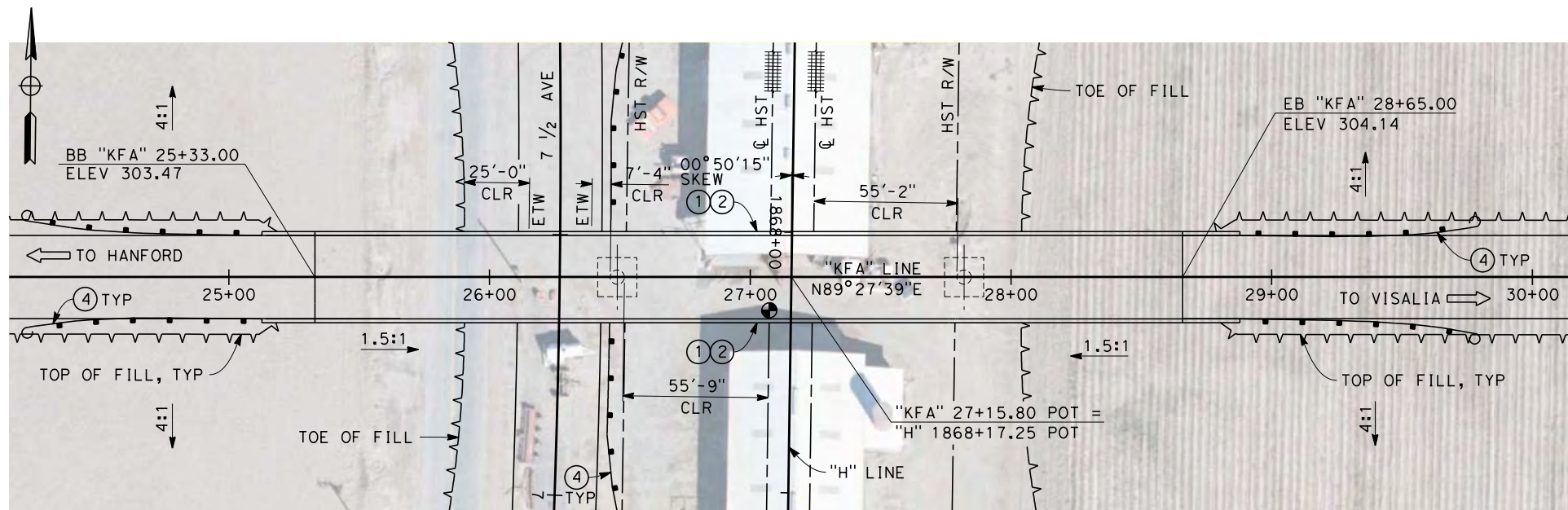
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2137  
SCALE  
AS SHOWN  
SHEET NO.  
9 OF 14



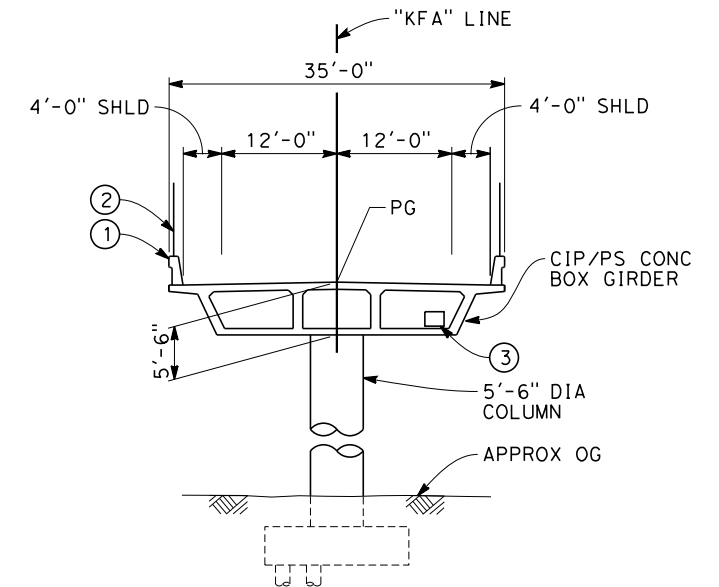
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NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



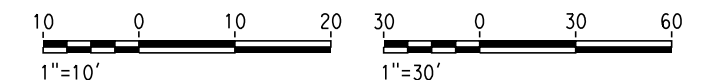
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 4:17:22 PM c:\pwworking\hmm\external\pro39009\dms91106\FB-ST-2139-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

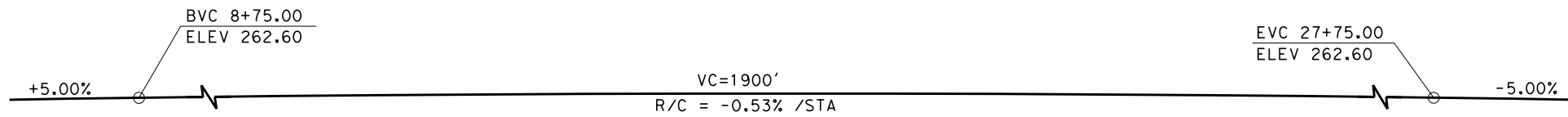
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



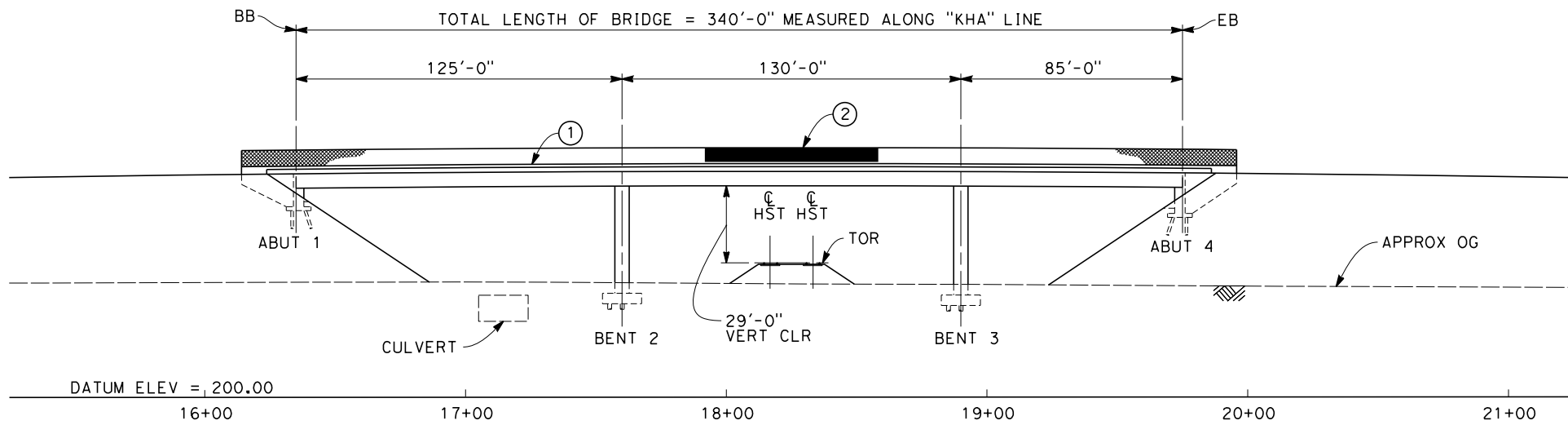
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
FARGO AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2139  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 14

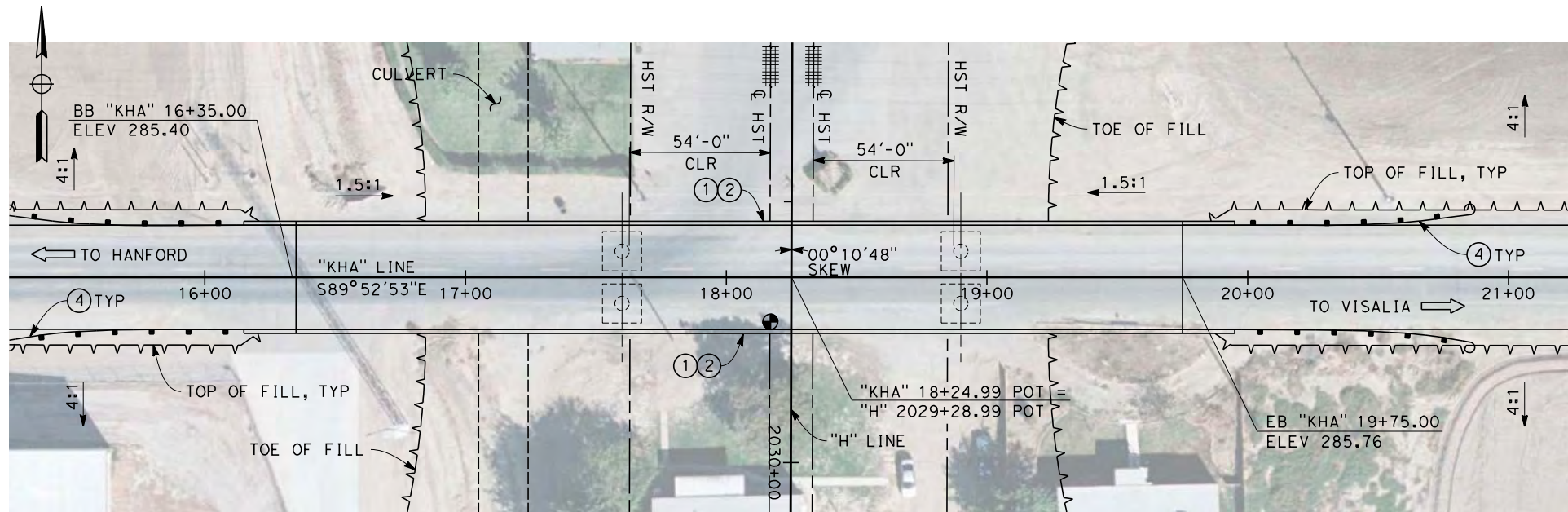




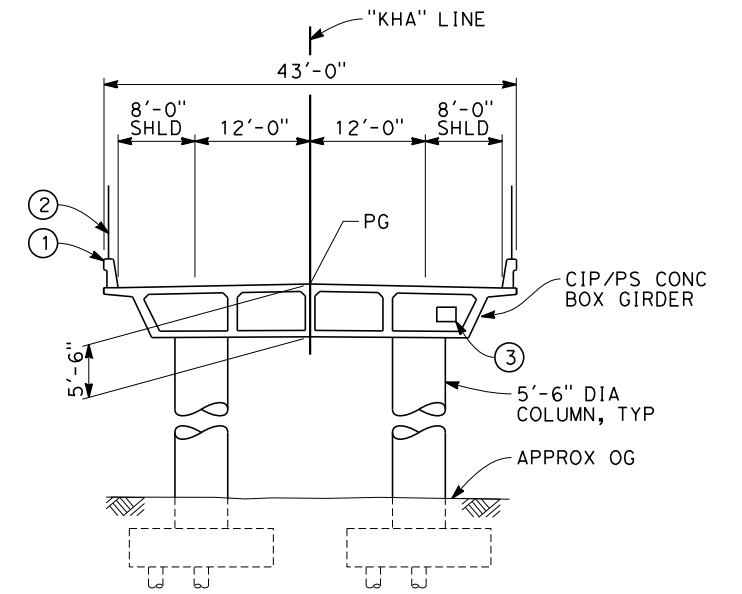
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



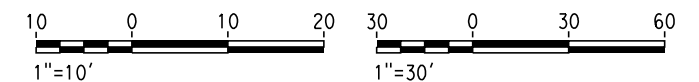
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 9:58:02 AM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2143-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

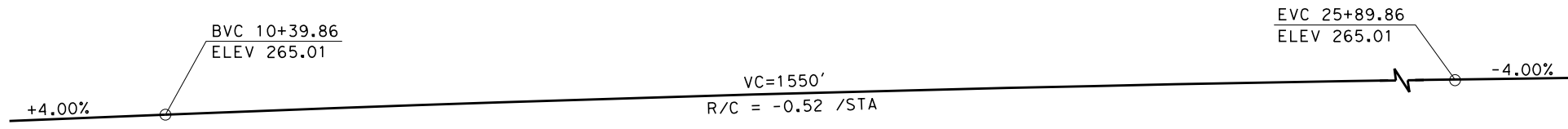
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

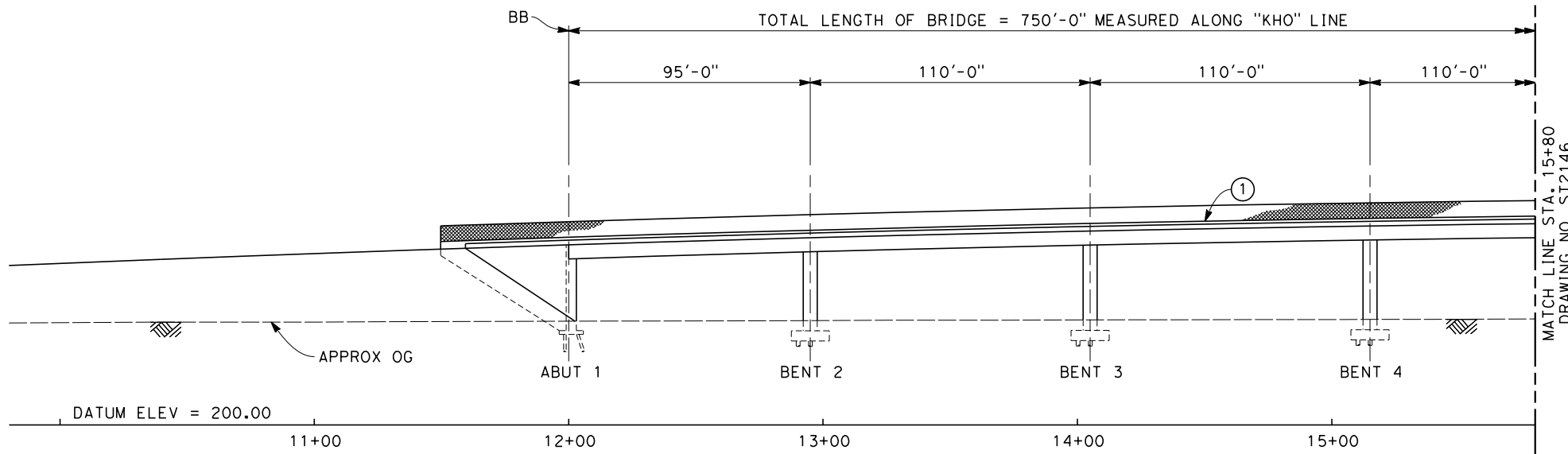


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
HANFORD ARMONA RD

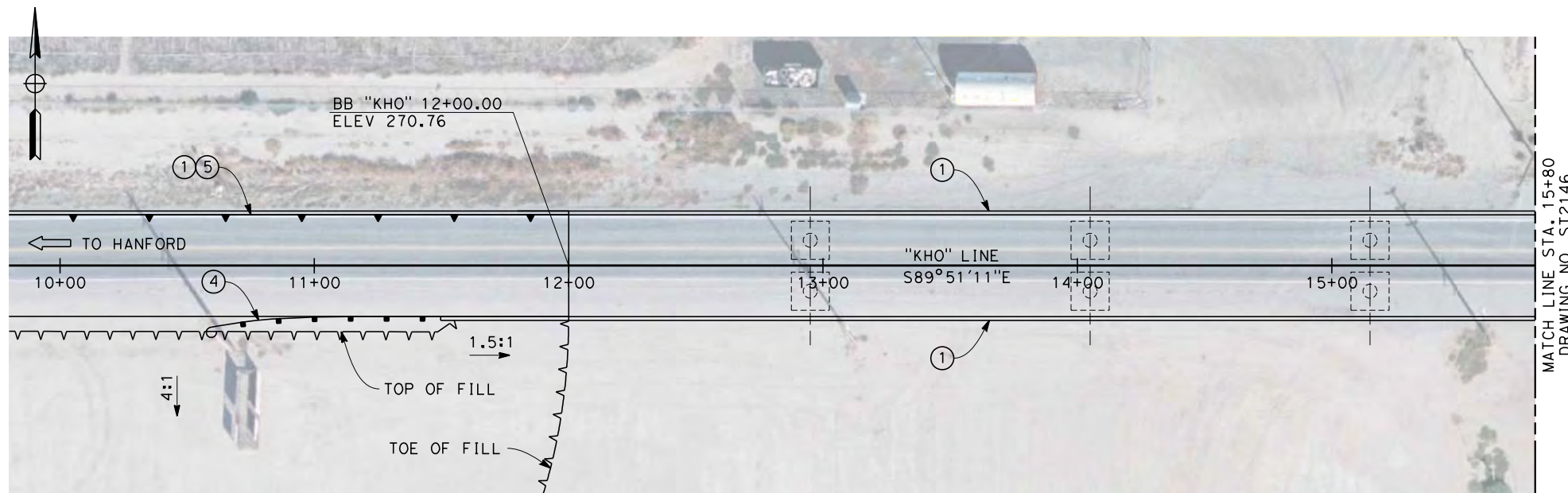
CONTRACT NO. HSR 06-0003
DRAWING NO. ST2143
SCALE AS SHOWN
SHEET NO. 11 OF 14



**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



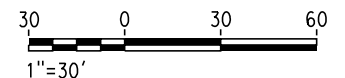
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL



12/23/2013 2:02:16 PM c:\pwworking\hmm\external\bar50597\dms91106\FB-ST-2145-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

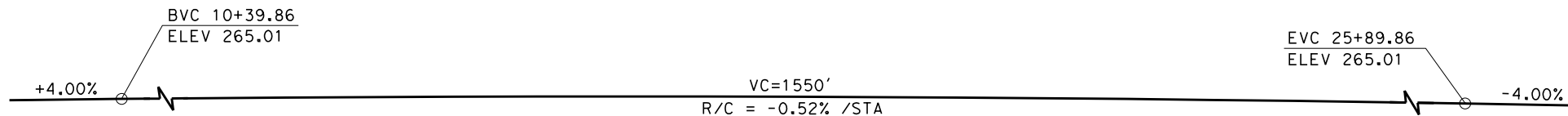
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

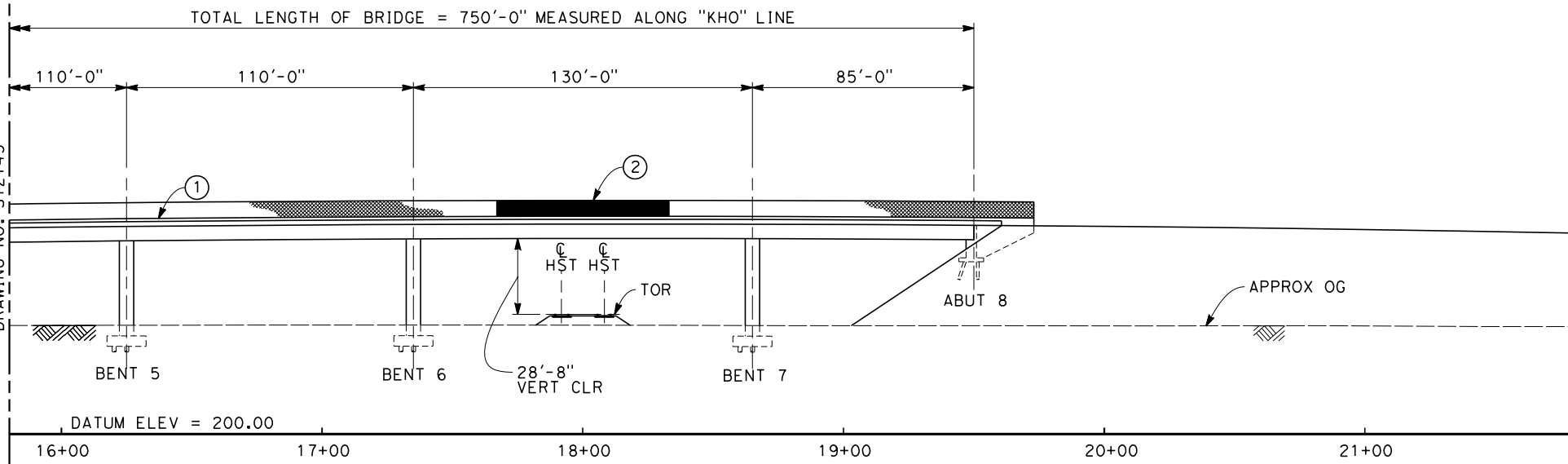


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
HOUSTON AVE

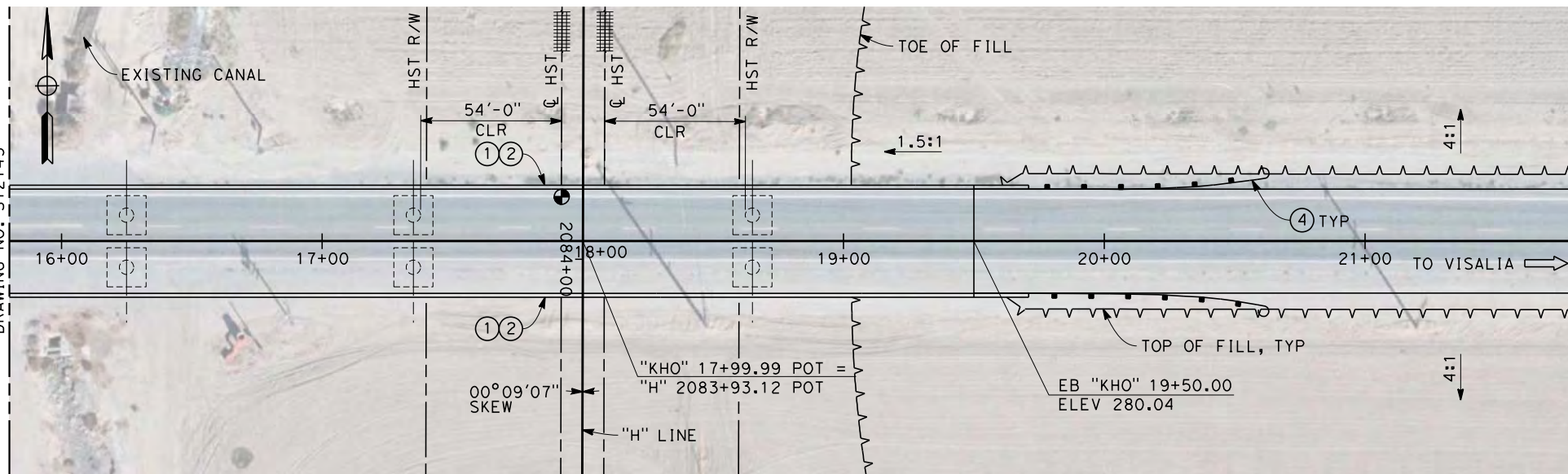
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HSR 06-0003  
DRAWING NO.  
ST2145  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 14



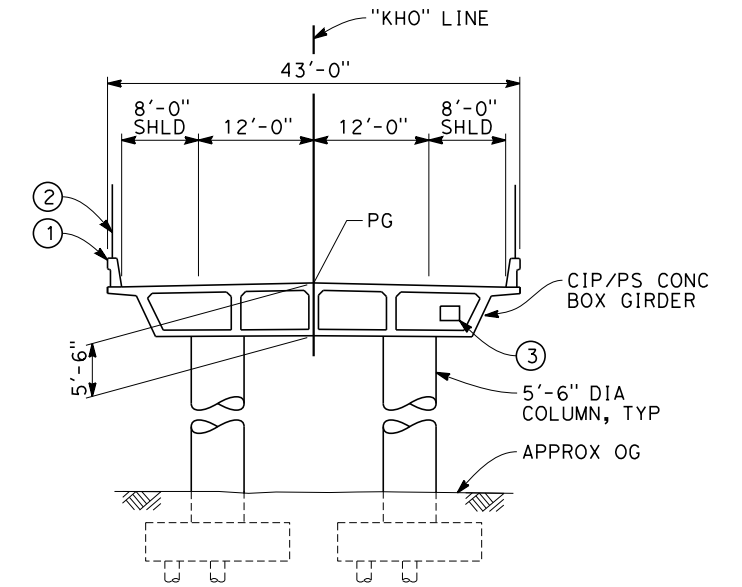
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



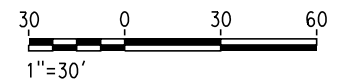
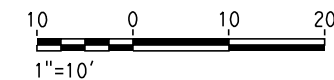
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 9:56:58 AM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2146-H.dgn

MATCH LINE STA. 15+80  
DRAWING NO. ST2145

MATCH LINE STA. 15+80  
DRAWING NO. ST2145

REV	DATE	BY	CHK	APP	DESCRIPTION

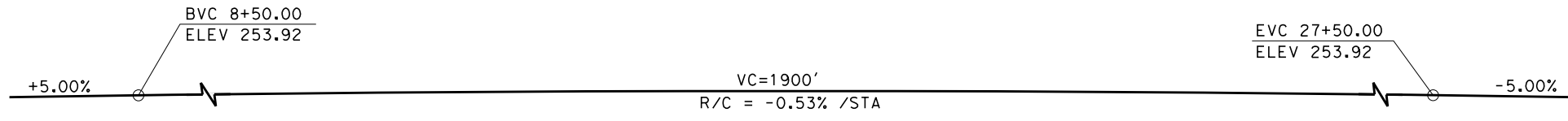
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

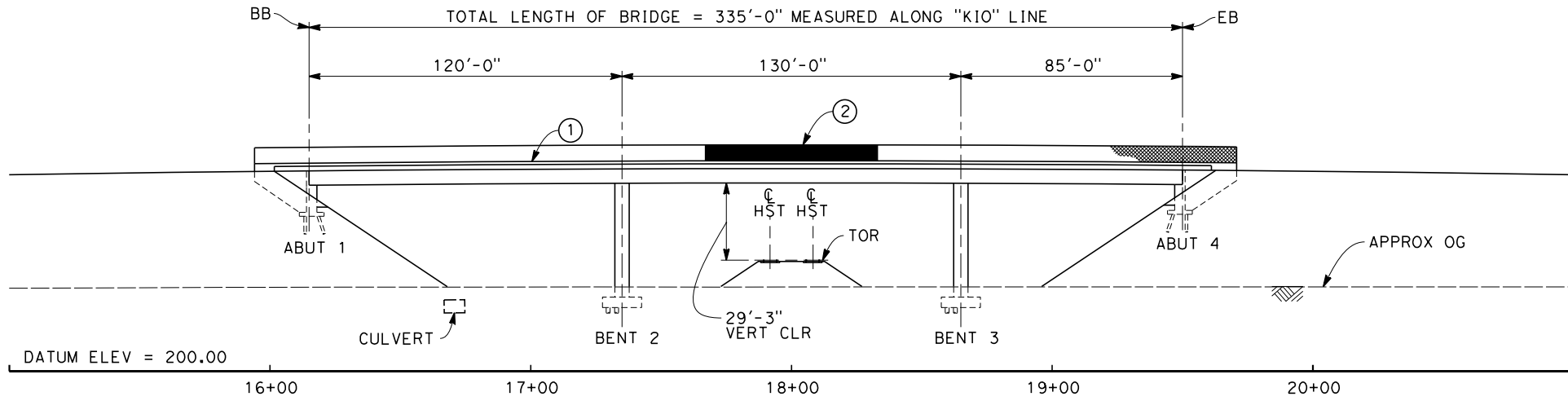


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
HOUSTON AVE

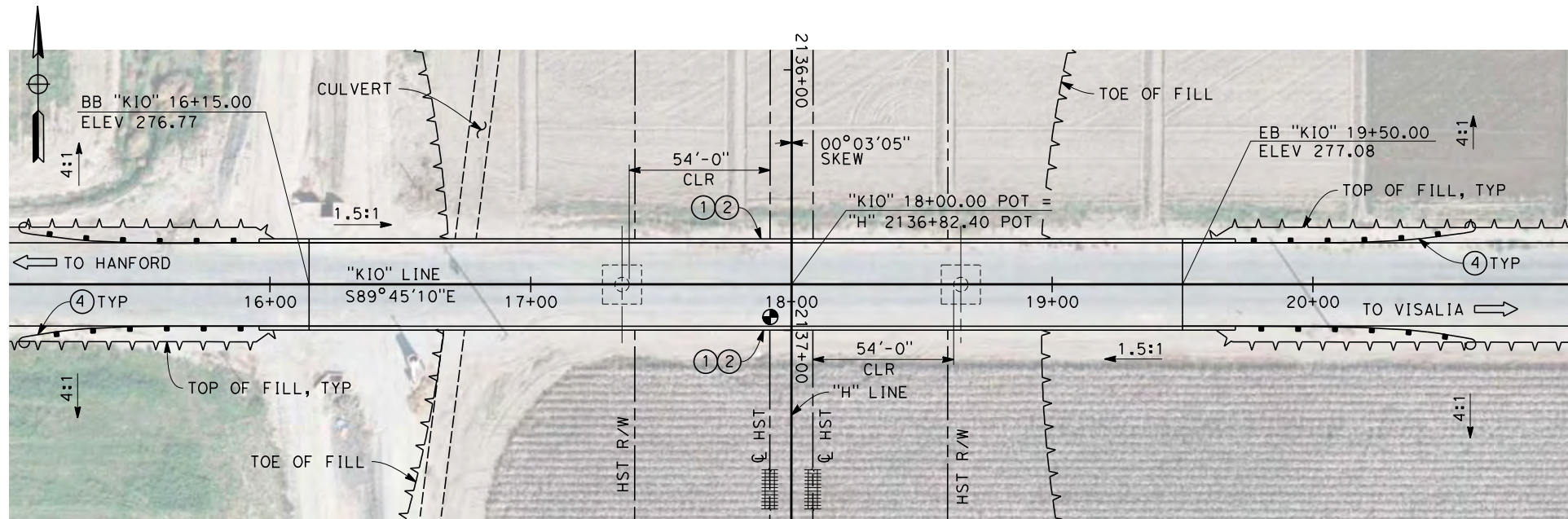
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2146  
SCALE  
AS SHOWN  
SHEET NO.  
13 OF 14



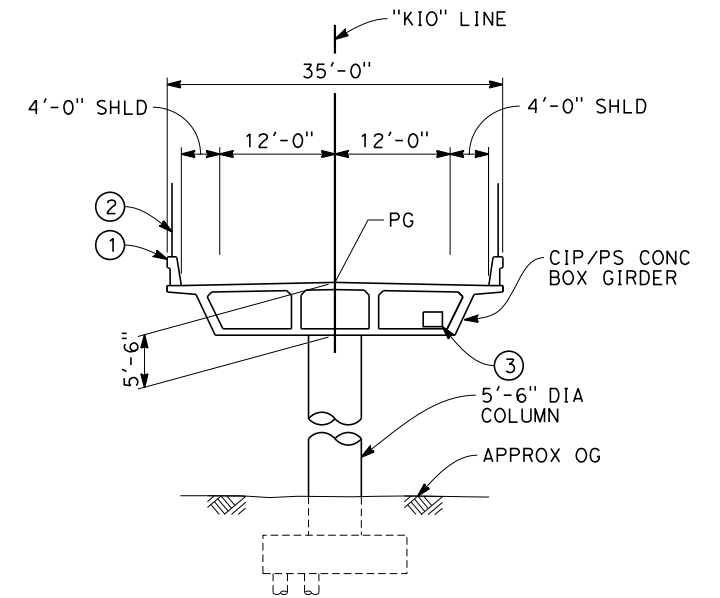
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



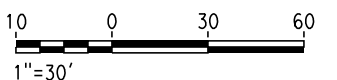
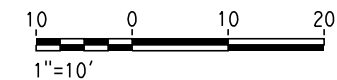
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/26/2013 3:16:49 PM c:\pwworking\hmm\external\pre45072\dms91106\FB-ST-2147-H.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



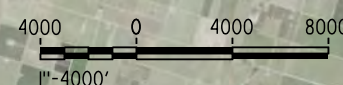
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD SUBSECTION  
ALIGNMENT H  
OVERHEAD PLANNING STUDY  
IONA AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2147  
SCALE  
AS SHOWN  
SHEET NO.  
14 OF 14

12/27/2013 10:38:55 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\bar59603\d0152519\FB-SB-0055-HW.dgn



**LEGEND**  
 ---+--- EXISTING FREIGHT RAILROAD  
 ——— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

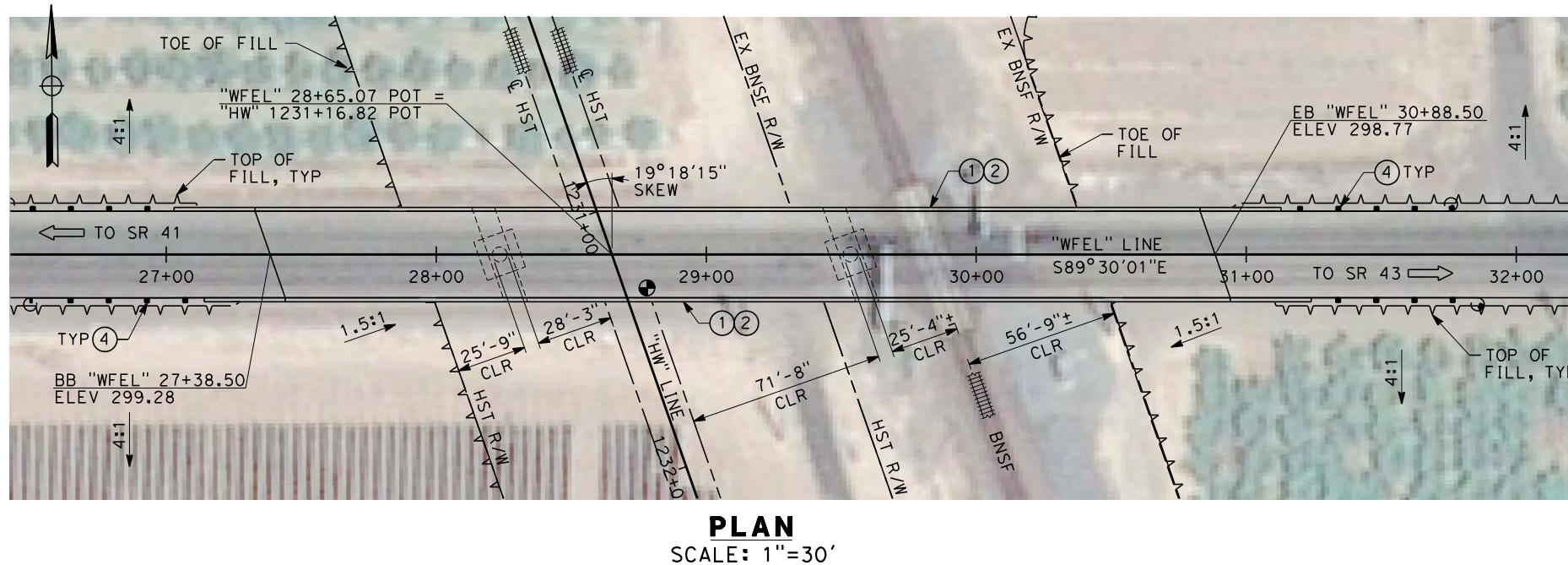
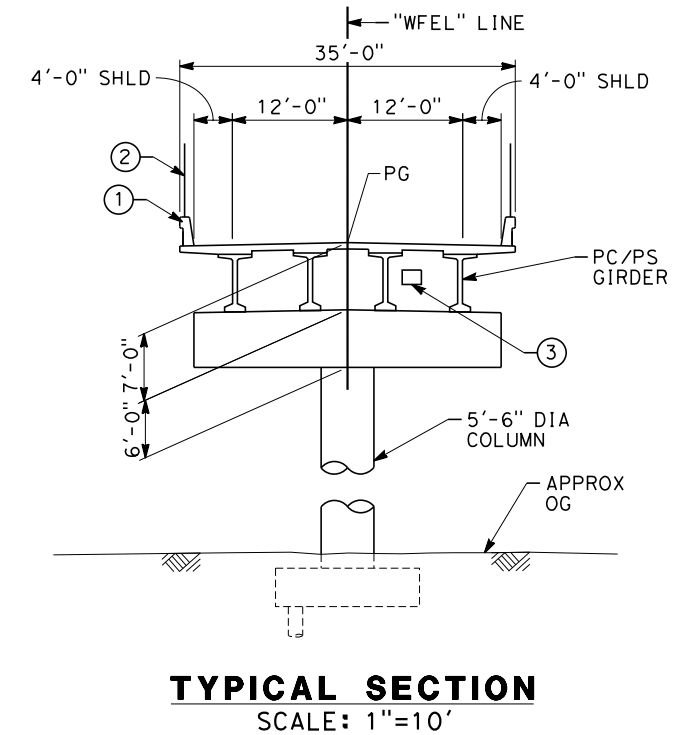
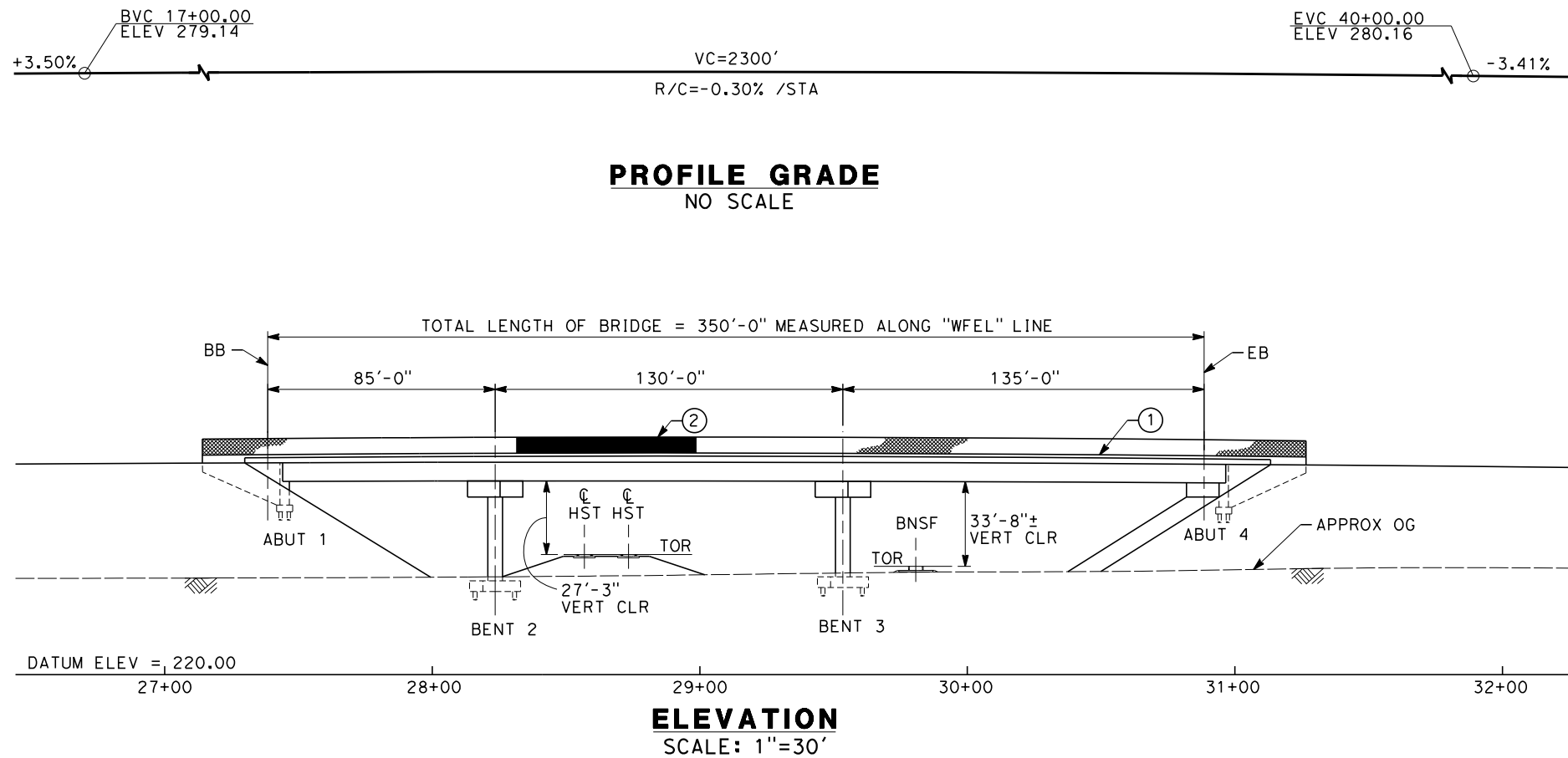
DESIGNED BY  
**M. ANDREWS**  
 DRAWN BY  
**D. BARNHART**  
 CHECKED BY  
**E. MORAN**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 HANFORD WEST BYPASS SUBSECTION  
 ALIGNMENT HW  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
SB0055  
 SCALE  
AS SHOWN  
 SHEET NO.  
1 OF 10



- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/18/2013 2:09:47 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\d0152519\FB-ST-2300-HW.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**

DRAWN BY  
**P. BARBER**

CHECKED BY  
**E. MORAN**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



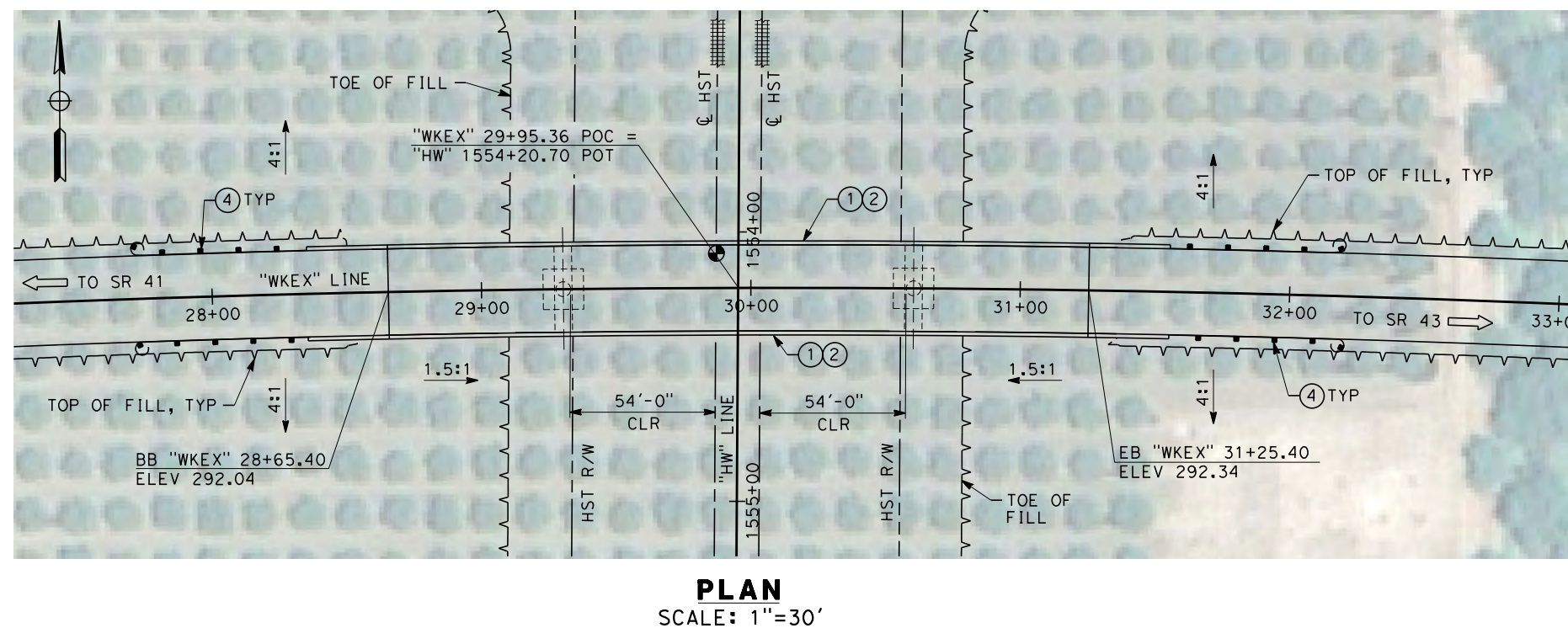
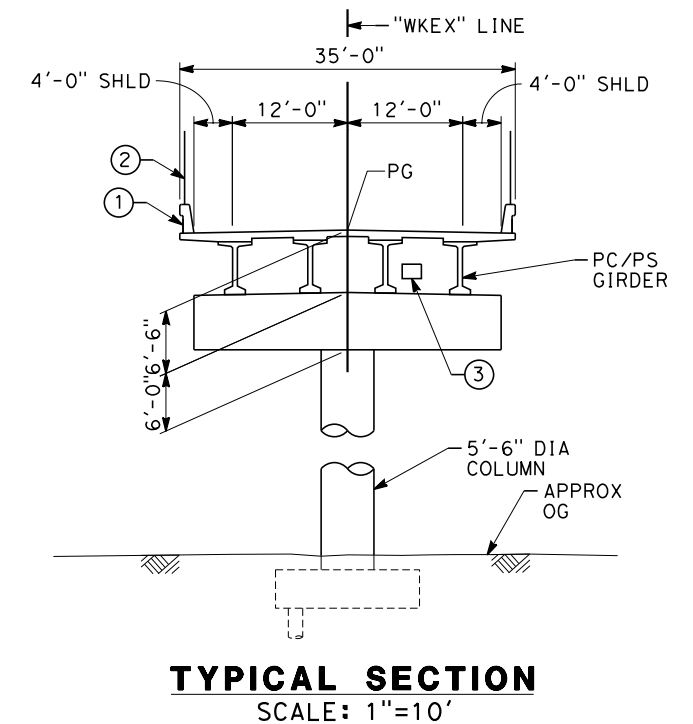
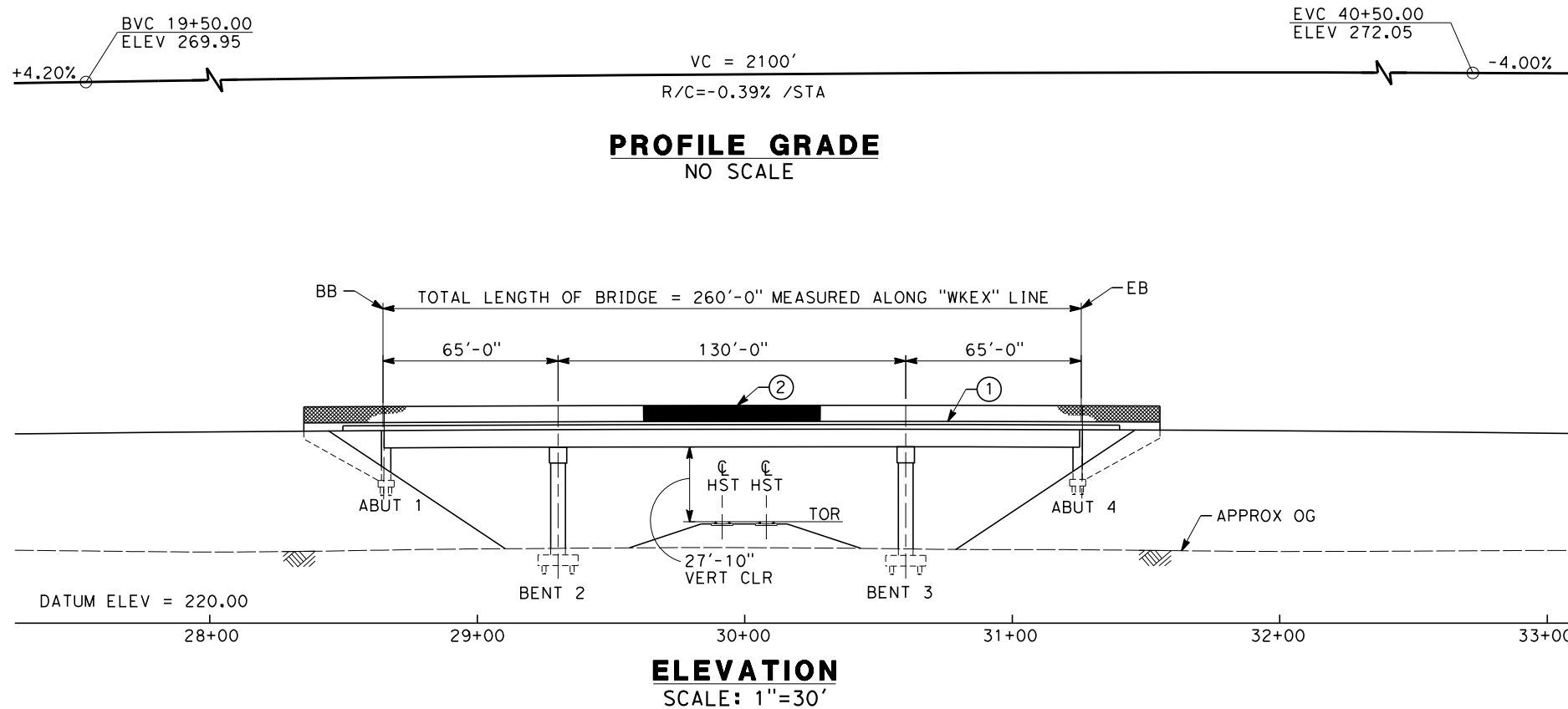
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW  
OVERHEAD PLANNING STUDY  
E ELKHORN AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2300

SCALE  
AS SHOWN

SHEET NO.  
2 OF 10

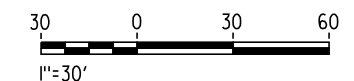
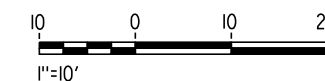


**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/18/2013 2:18:41 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\d0152519\FB-ST-2301-HW.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**

DRAWN BY  
**P. BARBER**

CHECKED BY  
**E. MORAN**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



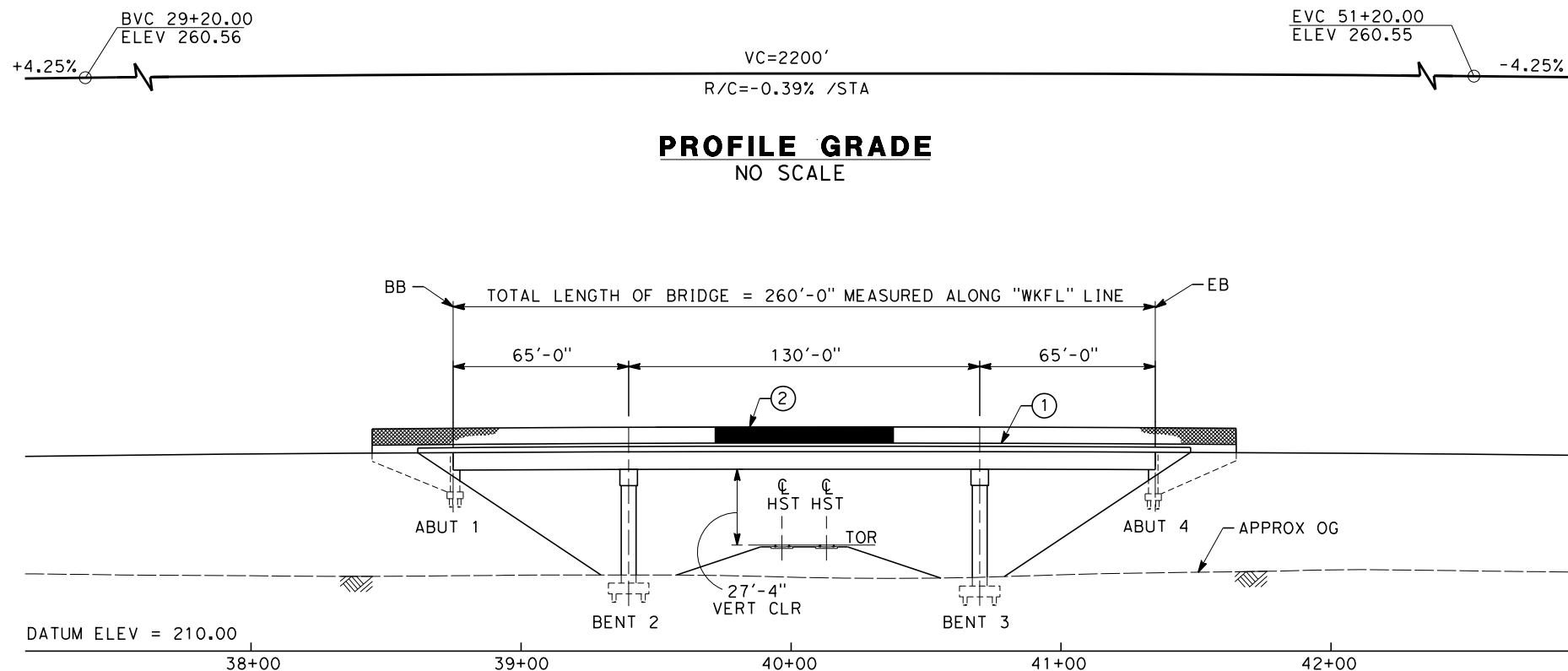
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW  
OVERHEAD PLANNING STUDY  
EXCELSIOR AVE

CONTRACT NO.  
HSR 06-0003

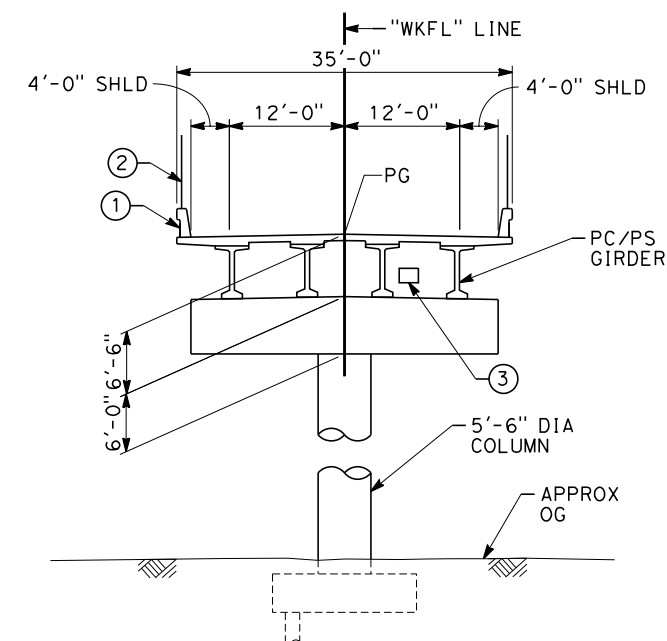
DRAWING NO.  
ST2301

SCALE  
AS SHOWN

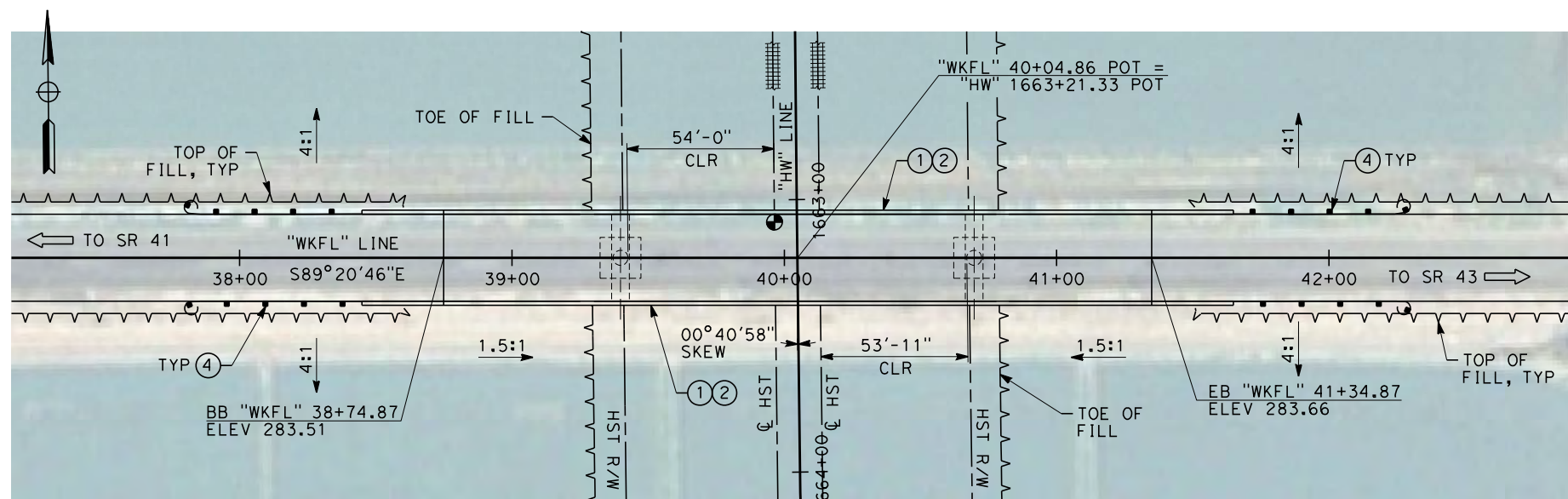
SHEET NO.  
3 OF 10



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/18/2013 12:22:51 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\d0152519\FB-ST-2302-HW.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**  
DRAWN BY  
**P. BARBER**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

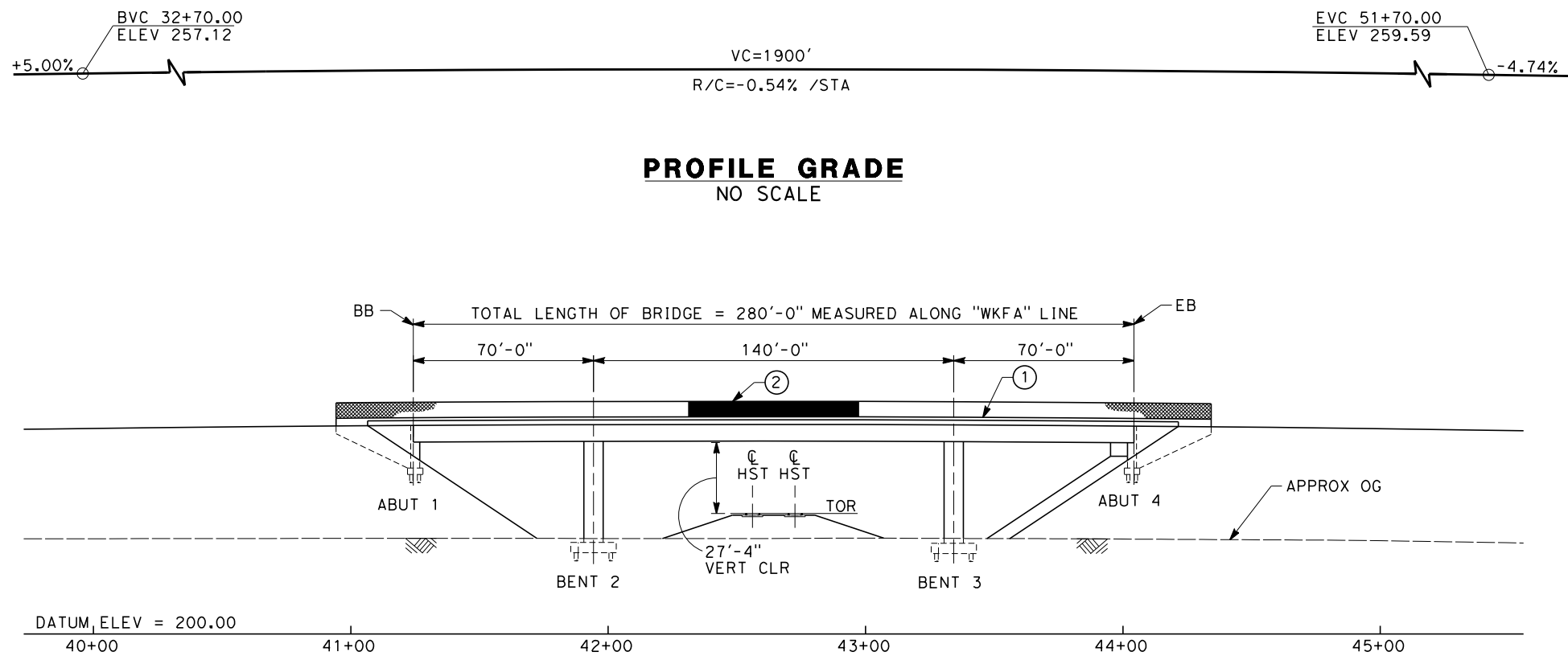
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW  
OVERHEAD PLANNING STUDY  
FLINT AVE

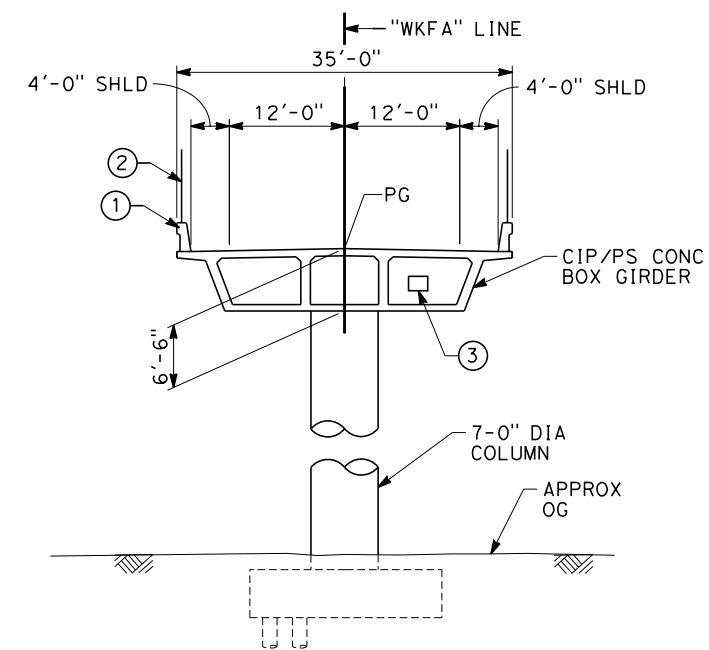
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2302  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 10



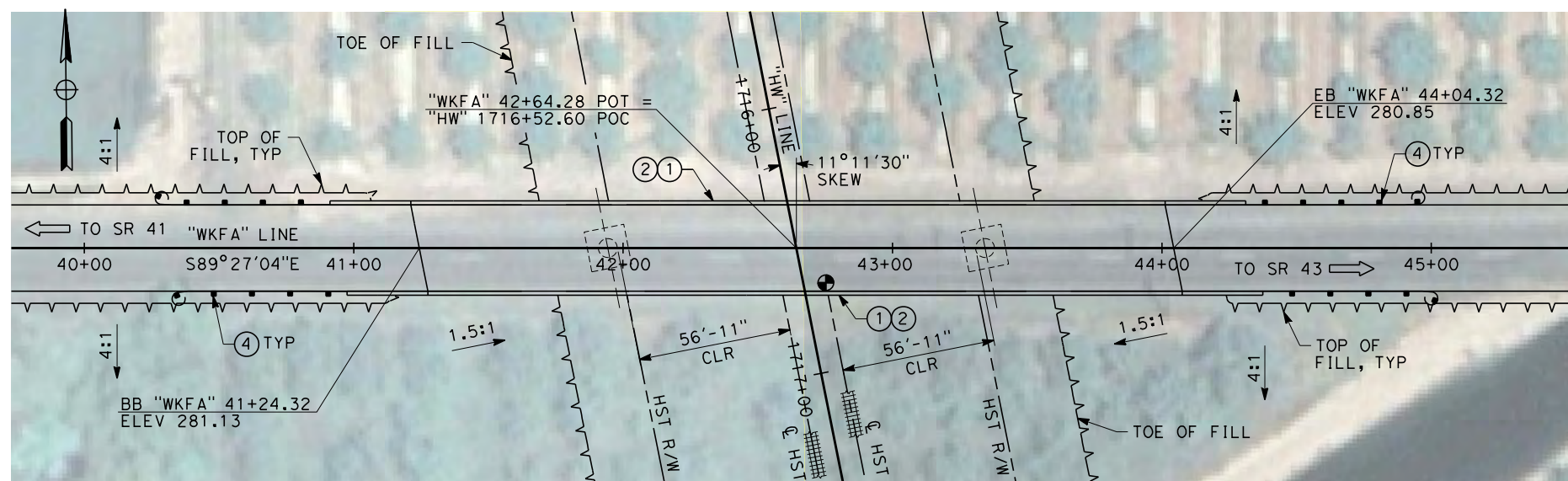


**PROFILE GRADE**  
NO SCALE

**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



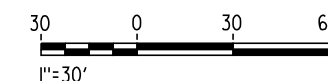
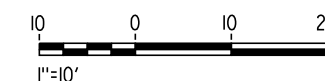
**PLAN**  
SCALE: 1"=30'

**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/18/2013 12:29:07 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\d0152519\FB-ST-2303-HW.dgn AND52110

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**  
DRAWN BY  
**P. BARBER**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

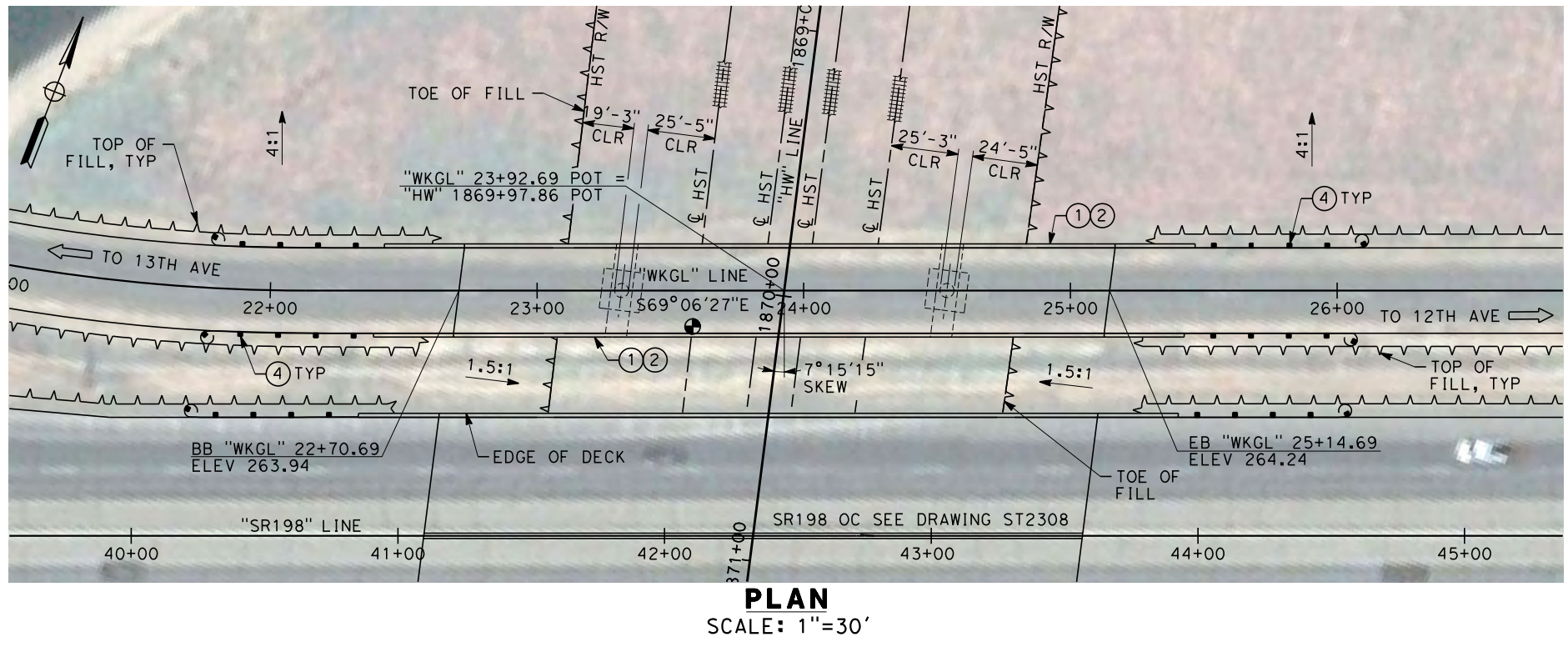
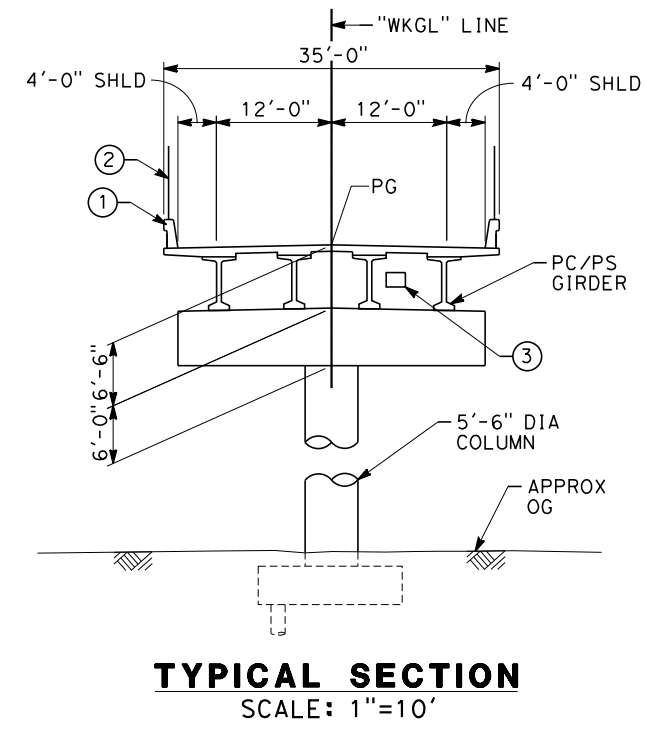
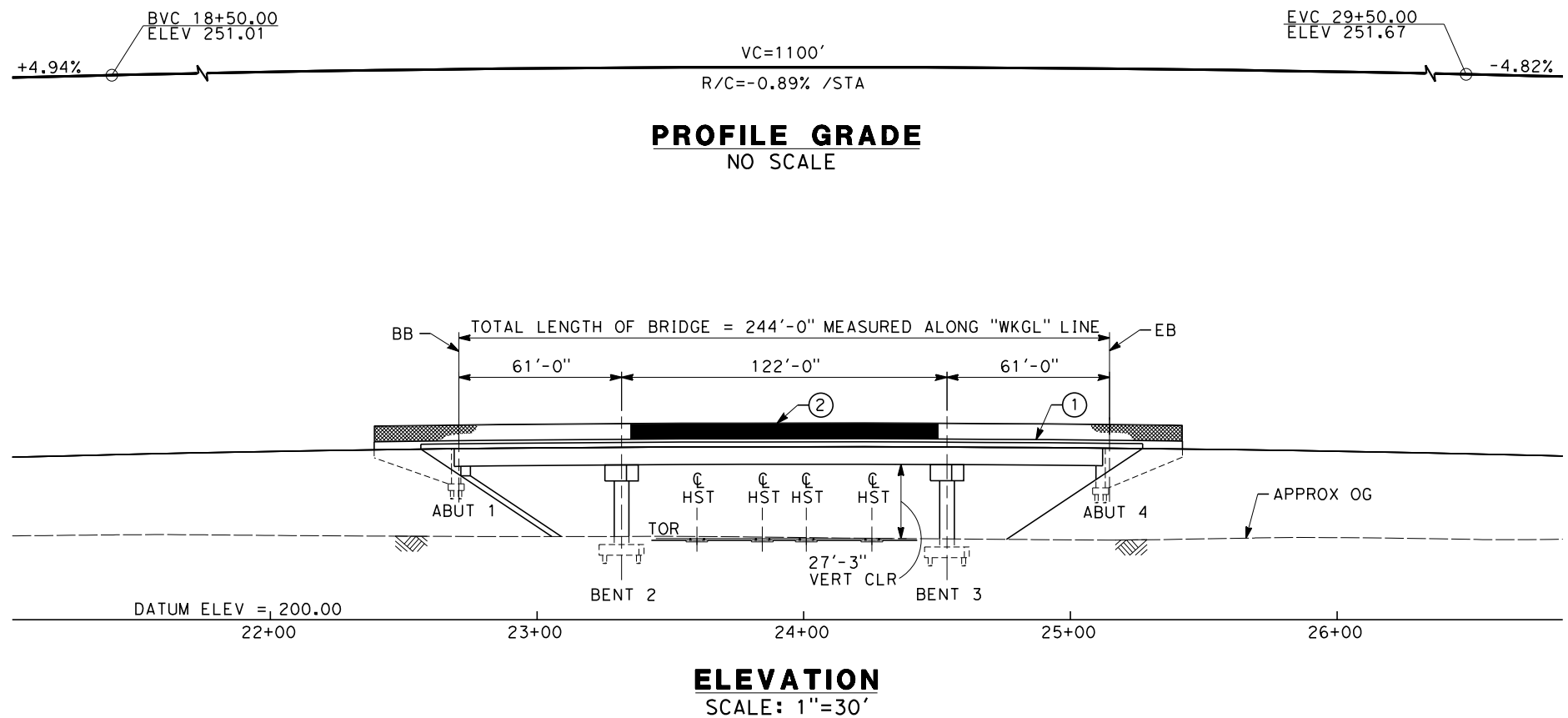
**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW  
OVERHEAD PLANNING STUDY  
FARGO AVE

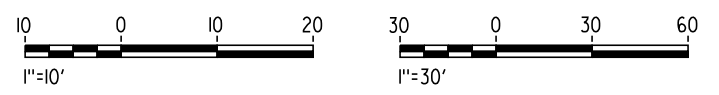
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2303  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 10



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/18/2013 12:45:17 PM CAHSR-r1.tbl CHSR\_PDF\_half\_block.plt c:\pwworking\hmm\external\and52110\d0152519\FB-ST-2306-HW.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**

DRAWN BY  
**P. BARBER**

CHECKED BY  
**E. MORAN**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



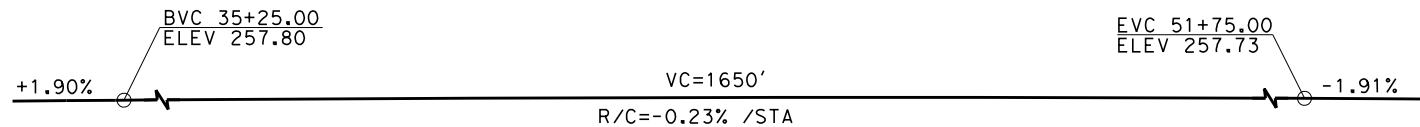
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW  
OVERHEAD PLANNING STUDY  
GLENDALE AVE

CONTRACT NO.  
HSR 06-0003

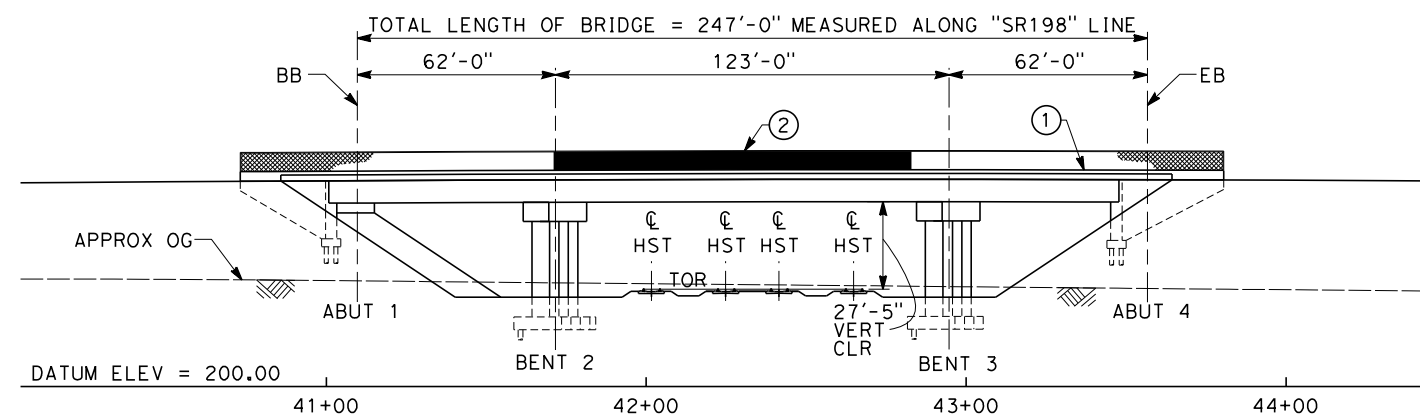
DRAWING NO.  
ST2306

SCALE  
AS SHOWN

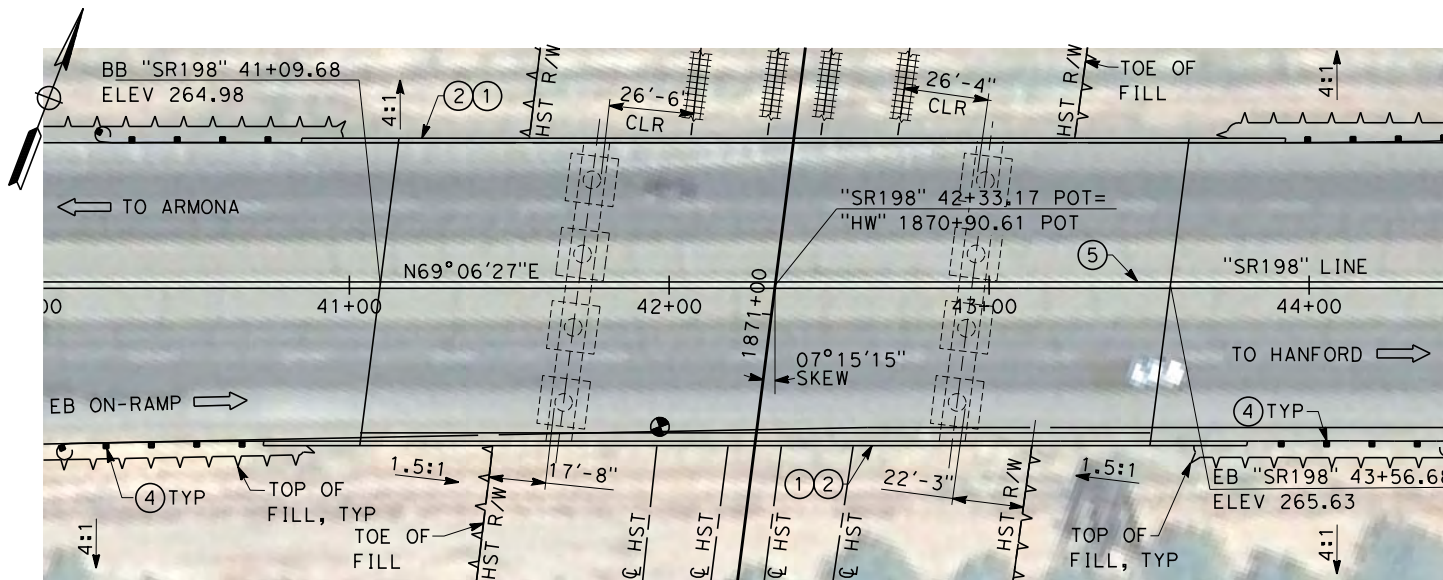
SHEET NO.  
6 OF 10



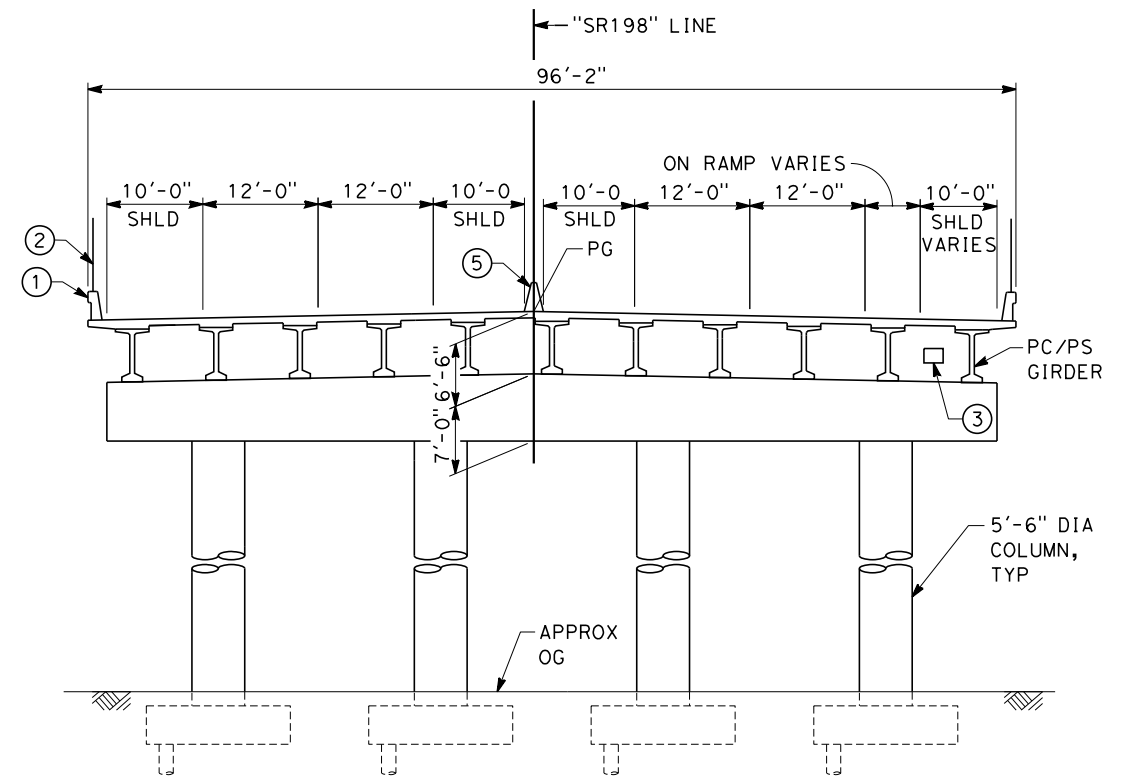
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



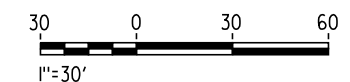
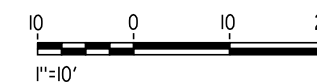
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ CONCRETE BARRIER (TYPE 60)



12/18/2013 1:25:43 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt: \\pwworking\hmm\external\and52110\d0152519\FB-ST-2308-HW.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

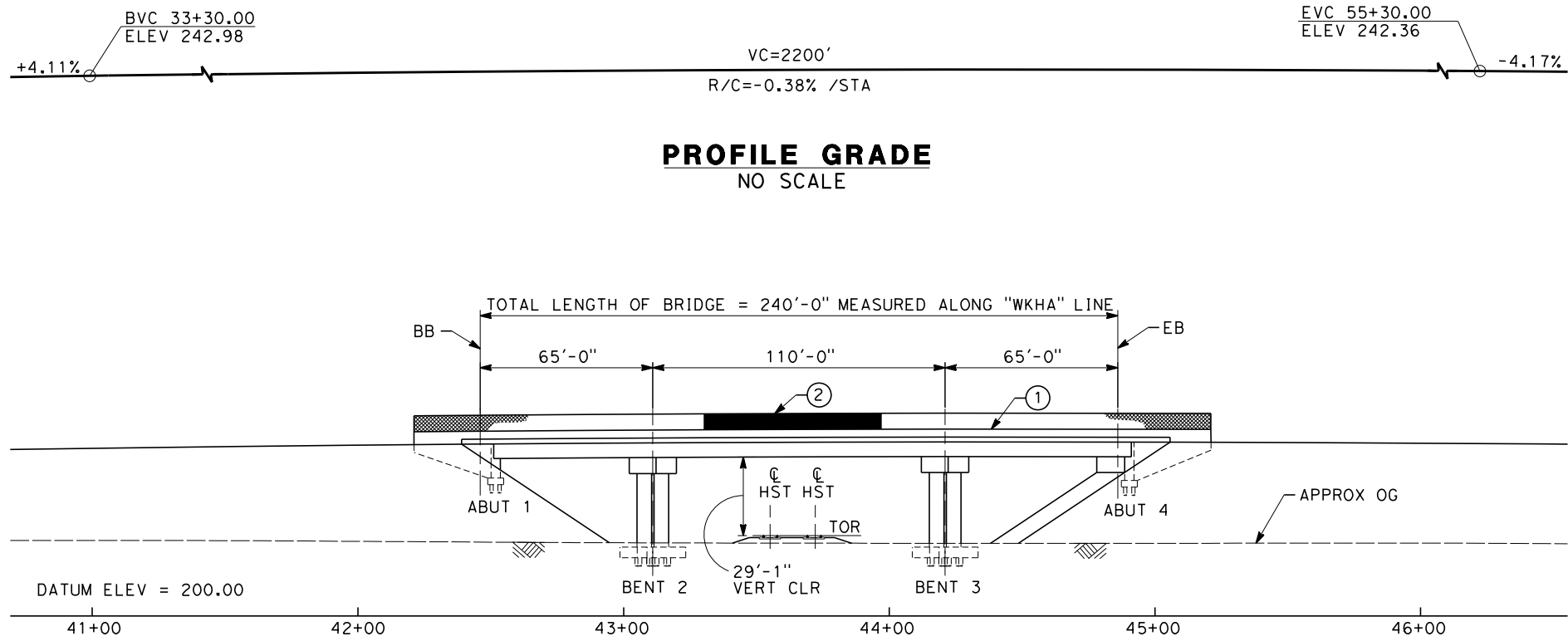
DESIGNED BY  
**M. ANDREWS**  
DRAWN BY  
**P. BARBER**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW  
OVERHEAD PLANNING STUDY  
STATE ROUTE 198

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2308  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 10

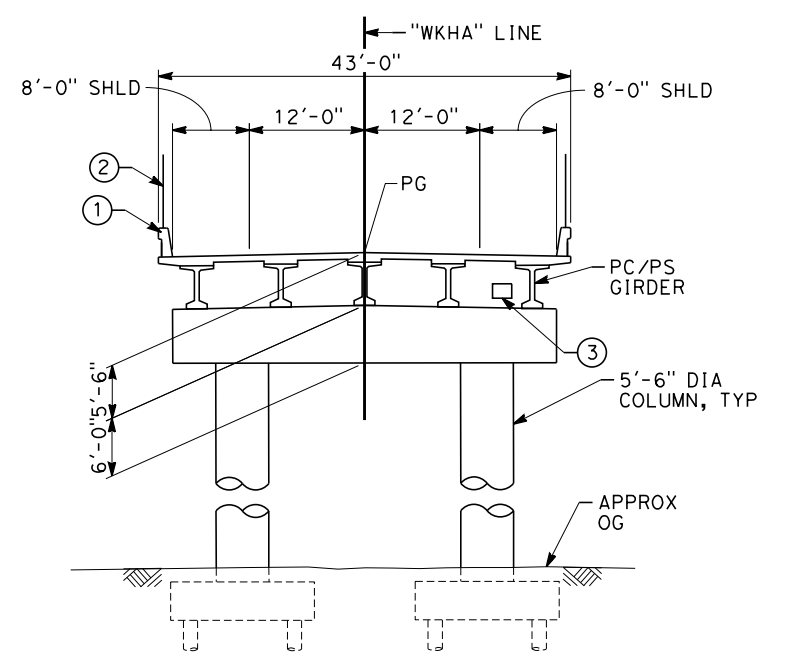


**PROFILE GRADE**  
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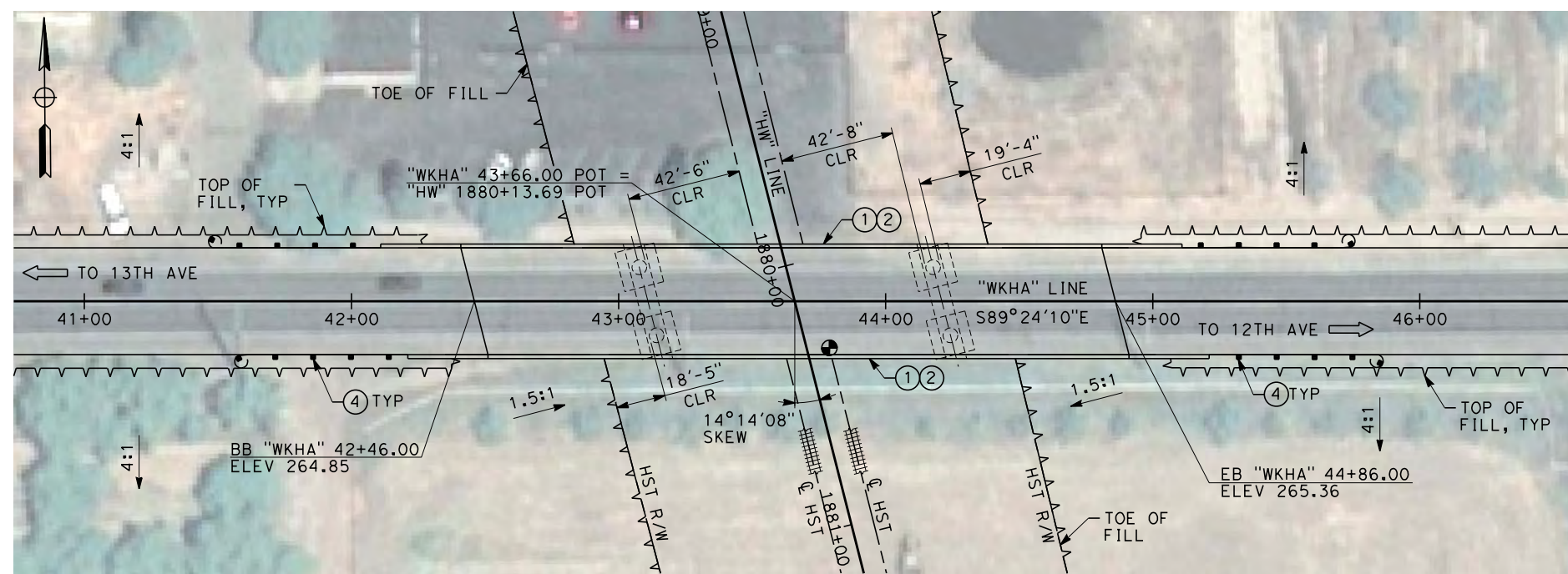
DATUM ELEV = 200.00

41+00      42+00      43+00      44+00      45+00      46+00

**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



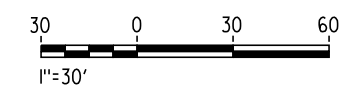
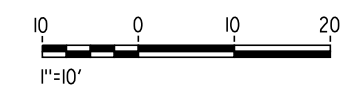
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/18/2013 1:37:32 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\d0152519\FB-ST-2310-HW.dgn AND52110

REV	DATE	BY	CHK	APP	DESCRIPTION

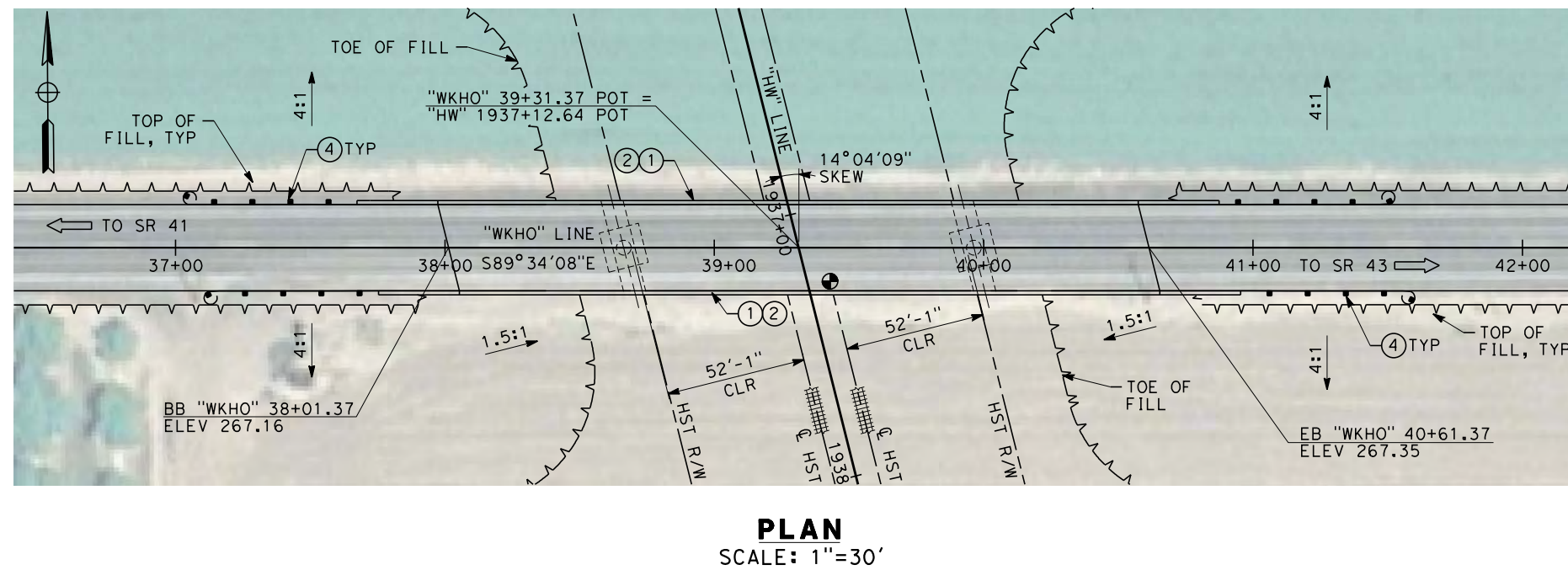
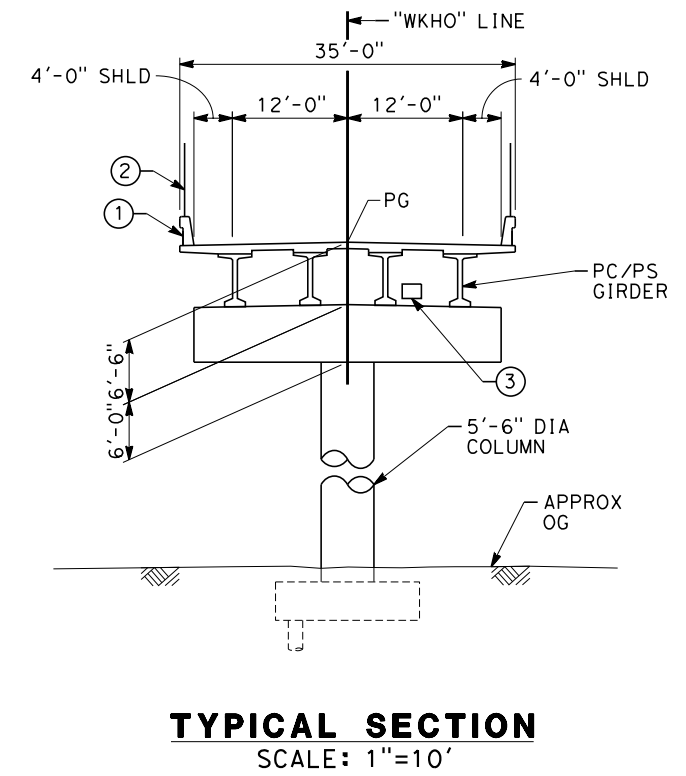
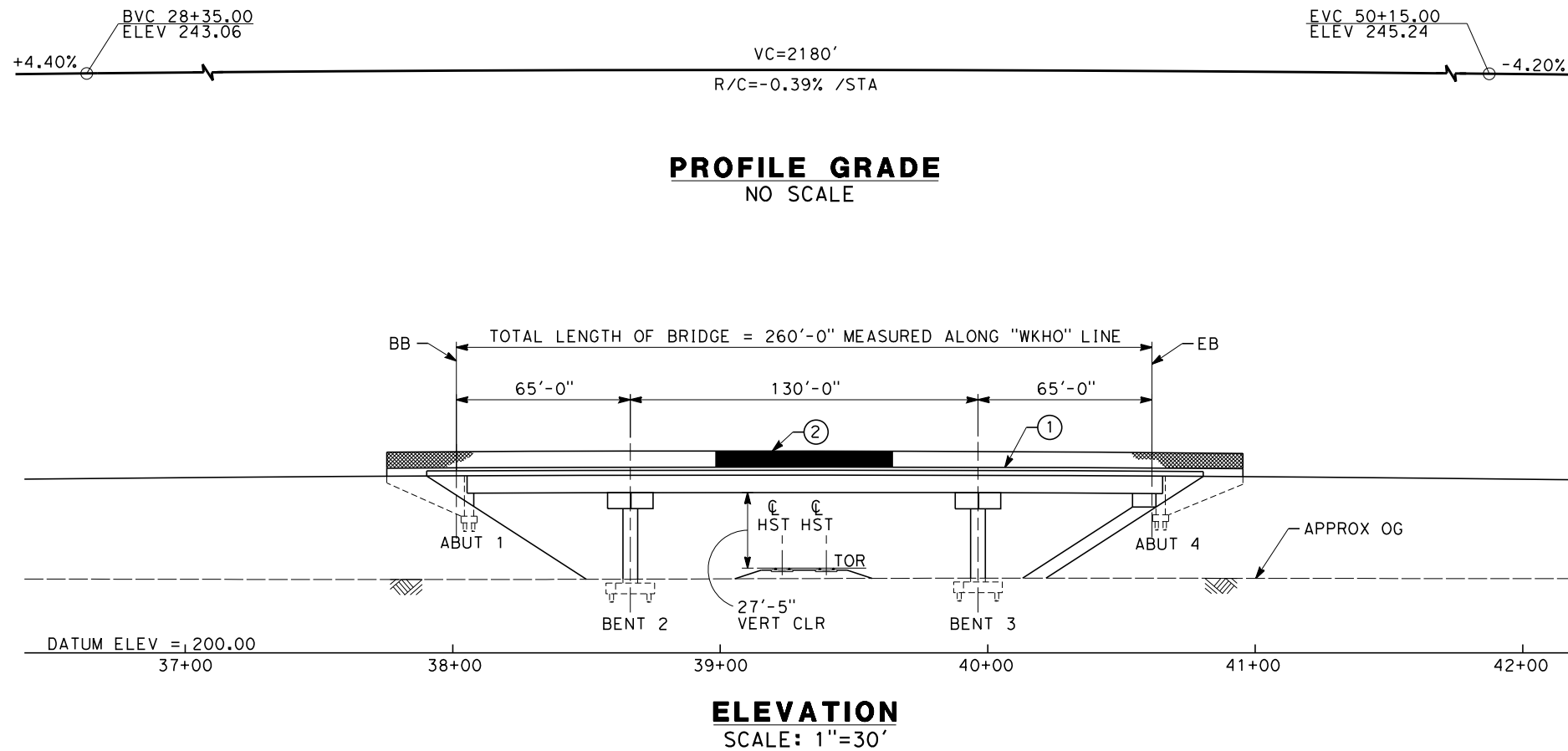
DESIGNED BY  
**M. ANDREWS**  
DRAWN BY  
**P. BARBER**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW  
OVERHEAD PLANNING STUDY  
HANFORD ARMONA RD

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2310  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 10



NOTES:  
 1. ALL PILES NOT SHOWN  
 2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



AND52110 12/18/2013 1:47:22 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt \\pwworking\hmm\external\and52110\d0152519\FB-ST-2312-HW.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**  
 DRAWN BY  
**P. BARBER**  
 CHECKED BY  
**E. MORAN**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

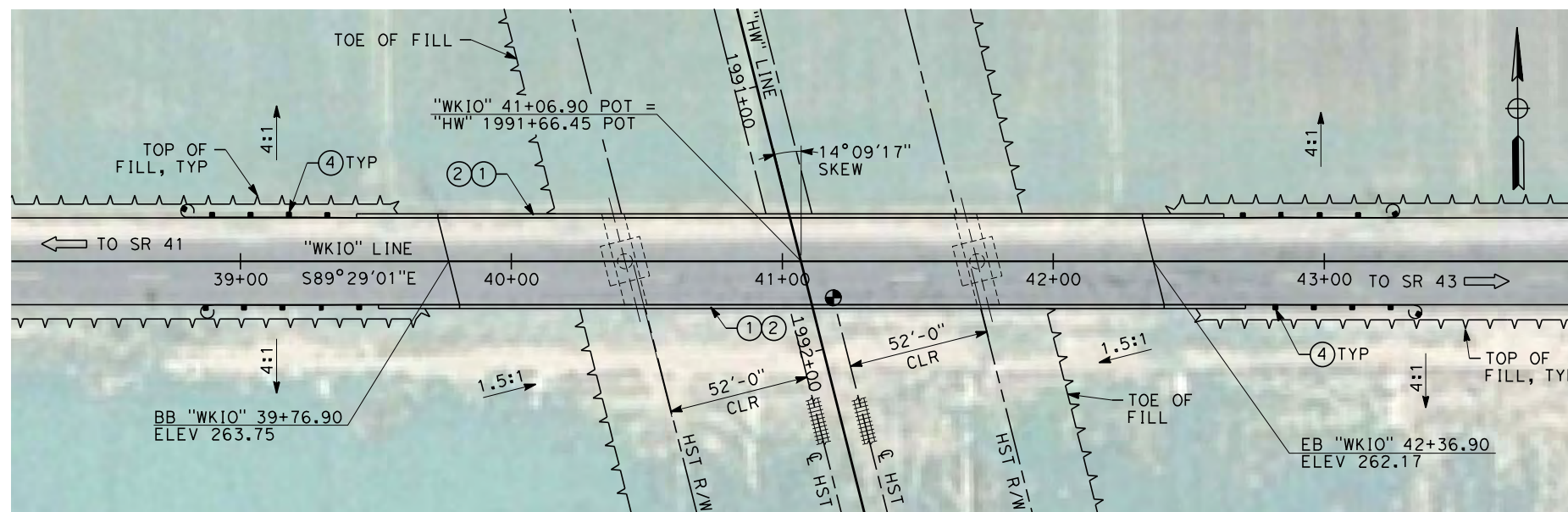
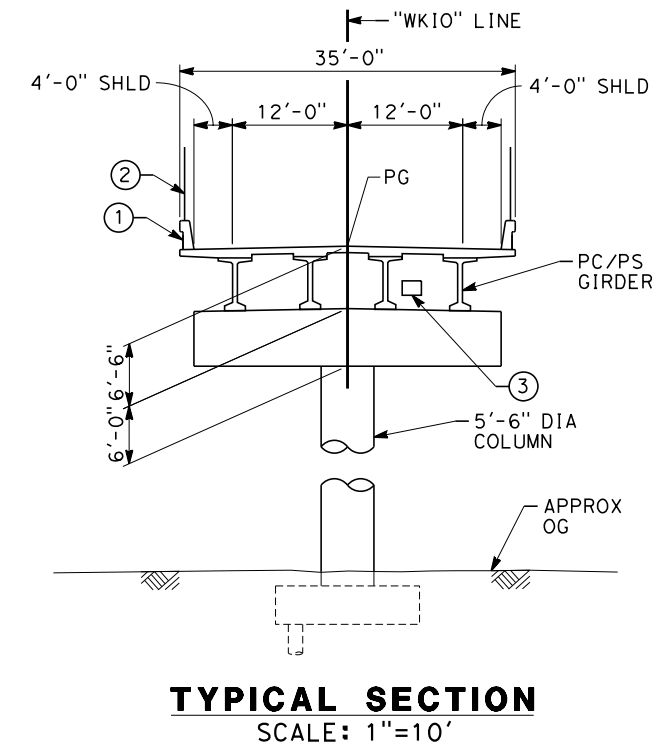
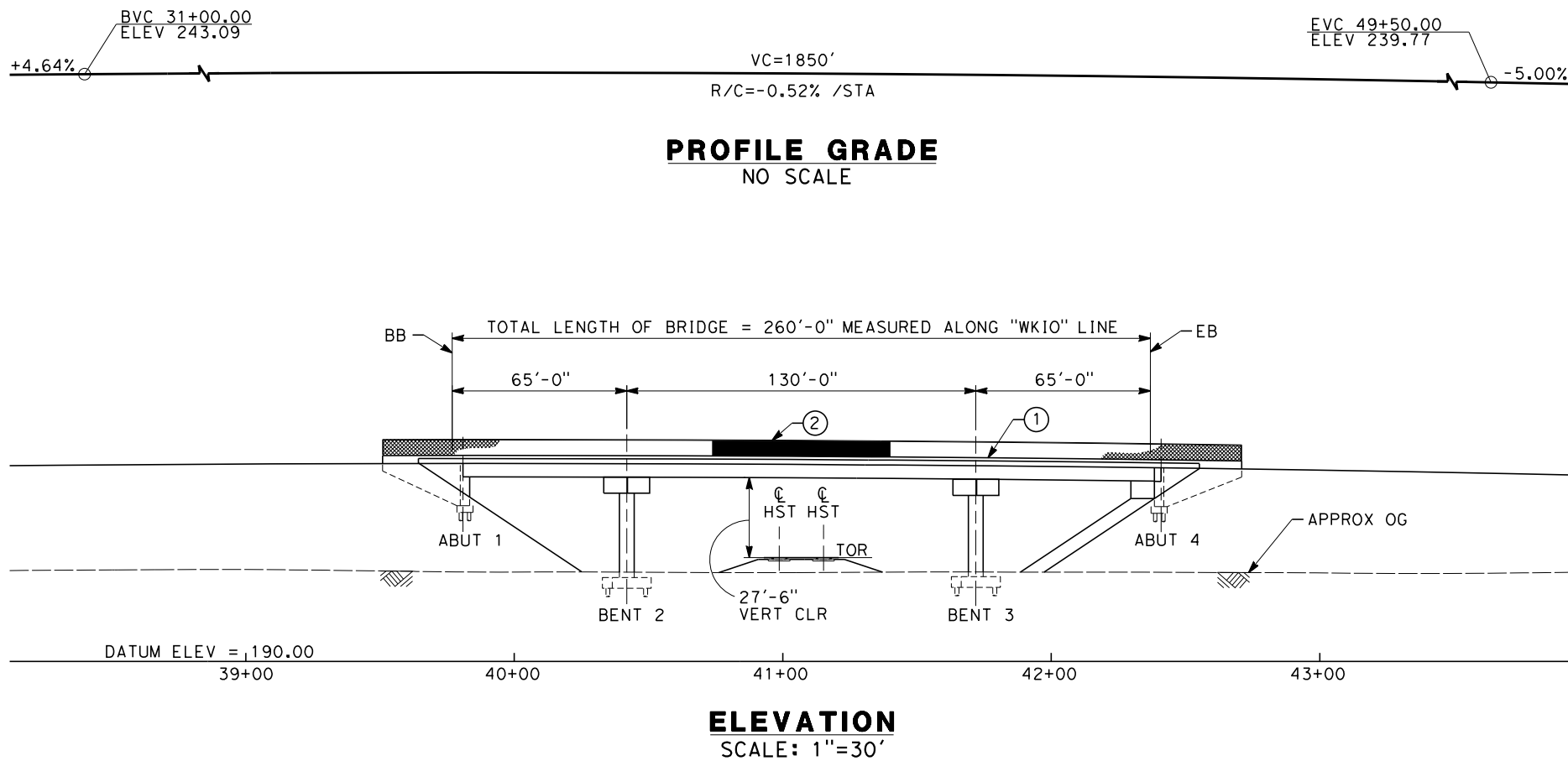
**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



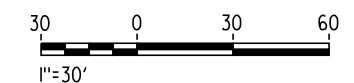
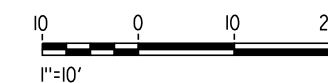
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 HANFORD WEST BYPASS SUBSECTION  
 ALIGNMENT HW  
 OVERHEAD PLANNING STUDY  
 HOUSTON AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
ST2312  
 SCALE  
AS SHOWN  
 SHEET NO.  
9 OF 10



- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**

DRAWN BY  
**P. BARBER**

CHECKED BY  
**E. MORAN**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW  
OVERHEAD PLANNING STUDY  
IONA AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2313

SCALE  
AS SHOWN

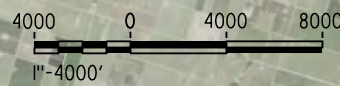
SHEET NO.  
10 OF 10

12/27/2013 11:35:41 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\bar59603\dms86692\FB-SB-0054-HW2.dgn



**LEGEND**

- +—+— EXISTING FREIGHT RAILROAD
- PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**L. SMITH**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**M. AMINI**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



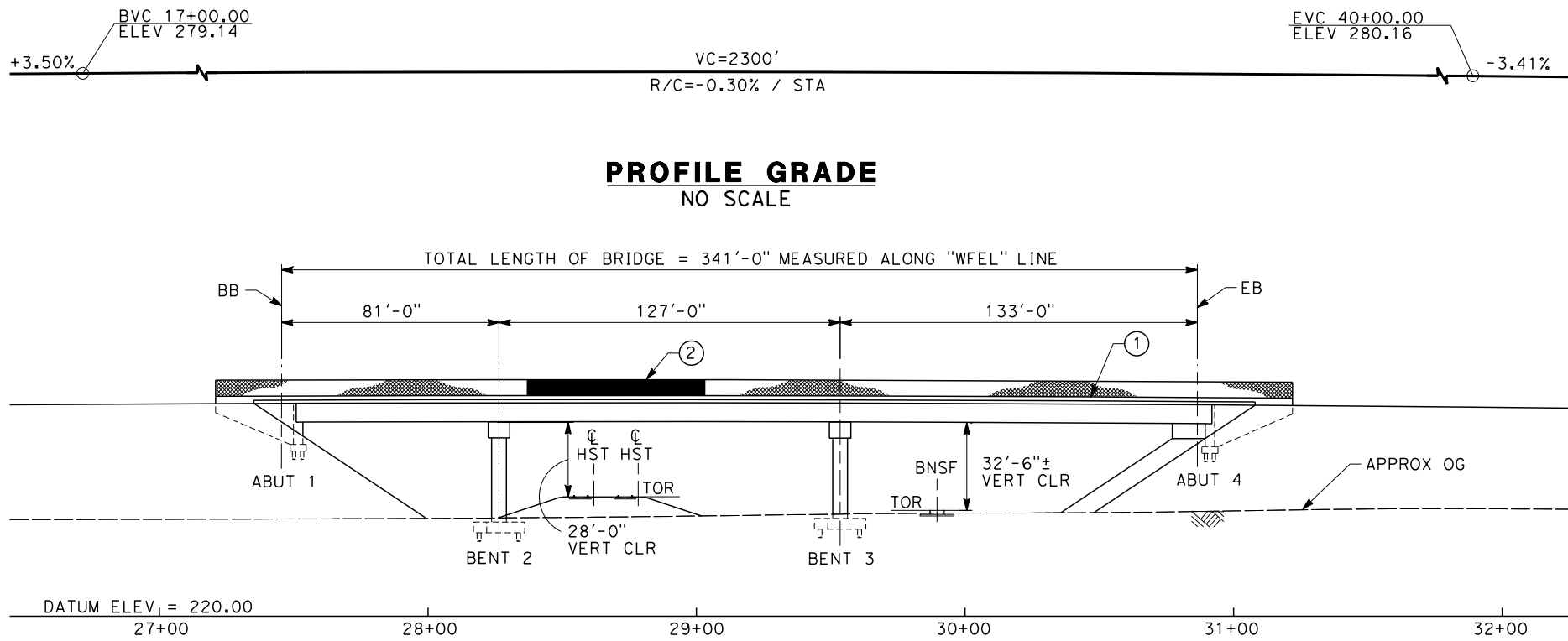
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 HANFORD WEST BYPASS SUBSECTION  
 ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
SB0054

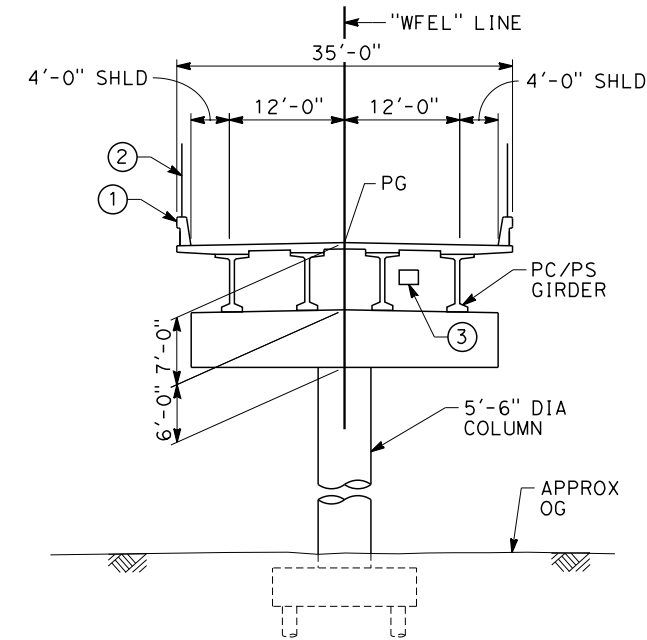
SCALE  
AS SHOWN

SHEET NO.  
1 OF 11

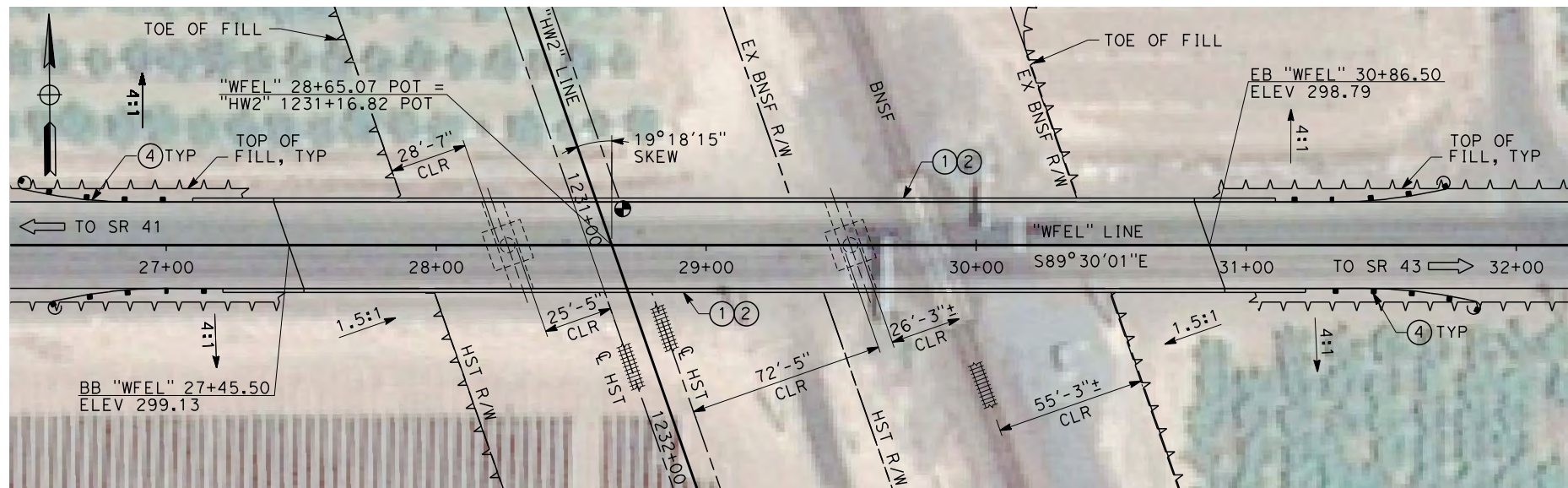


**PROFILE GRADE**  
NO SCALE

**ELEVATION**  
SCALE: 1"=30'



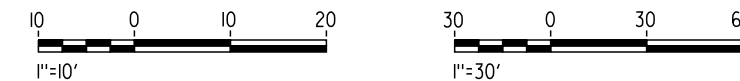
**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN.
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



MOR45030 12/26/2013 11:18:00 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \working\mim\external\mor45030.dms\6692\FB-ST-2350-HW2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**L. SMITH**  
DRAWN BY  
**P. BARBER**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

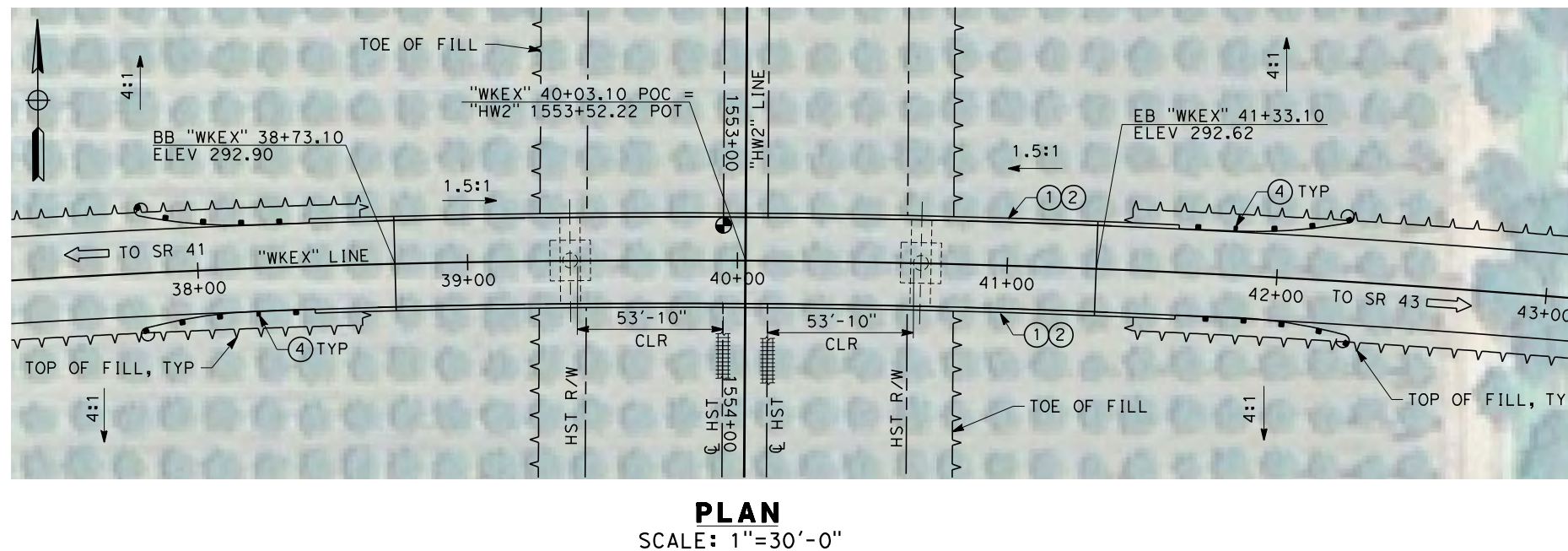
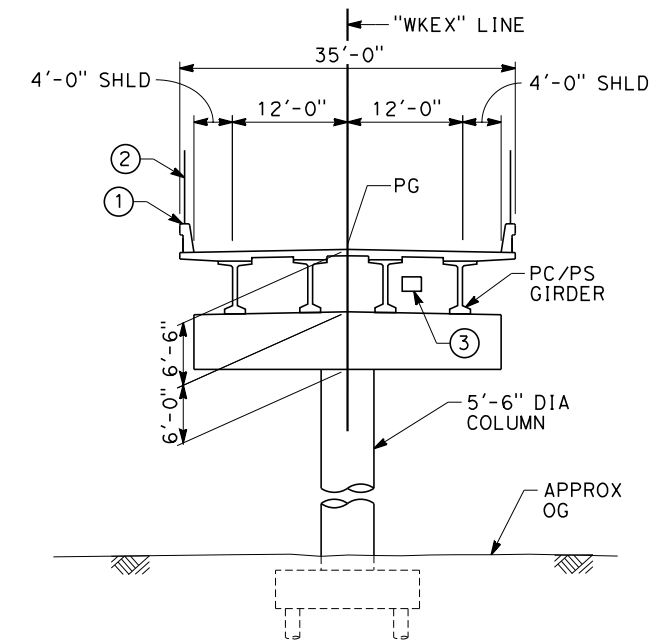
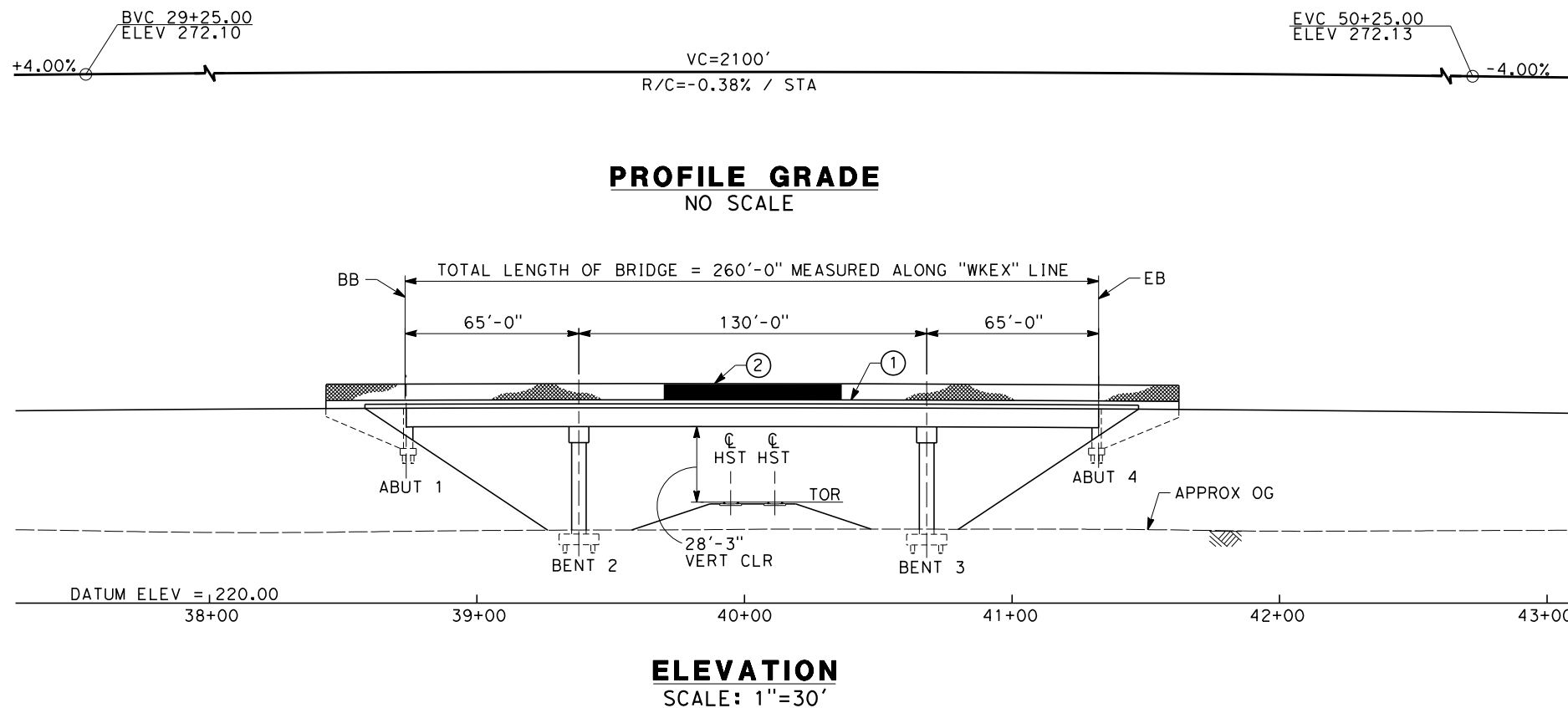
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
E ELKHORN AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2350  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 11





- NOTES:
- ALL PILES NOT SHOWN.
  - FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- CONCRETE BARRIER WITH AR FENCE
  - AR FENCE WITH SOLID PLATE OVER HST
  - FUTURE UTILITY ENCASEMENT OPENING
  - MBGR



12/23/2013 1:21:13 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt:hpworking\hmm\external\pro39009\dms86692\FB-ST-2351-HW2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**L. SMITH**

DRAWN BY  
**P. BARBER**

CHECKED BY  
**E. MORAN**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

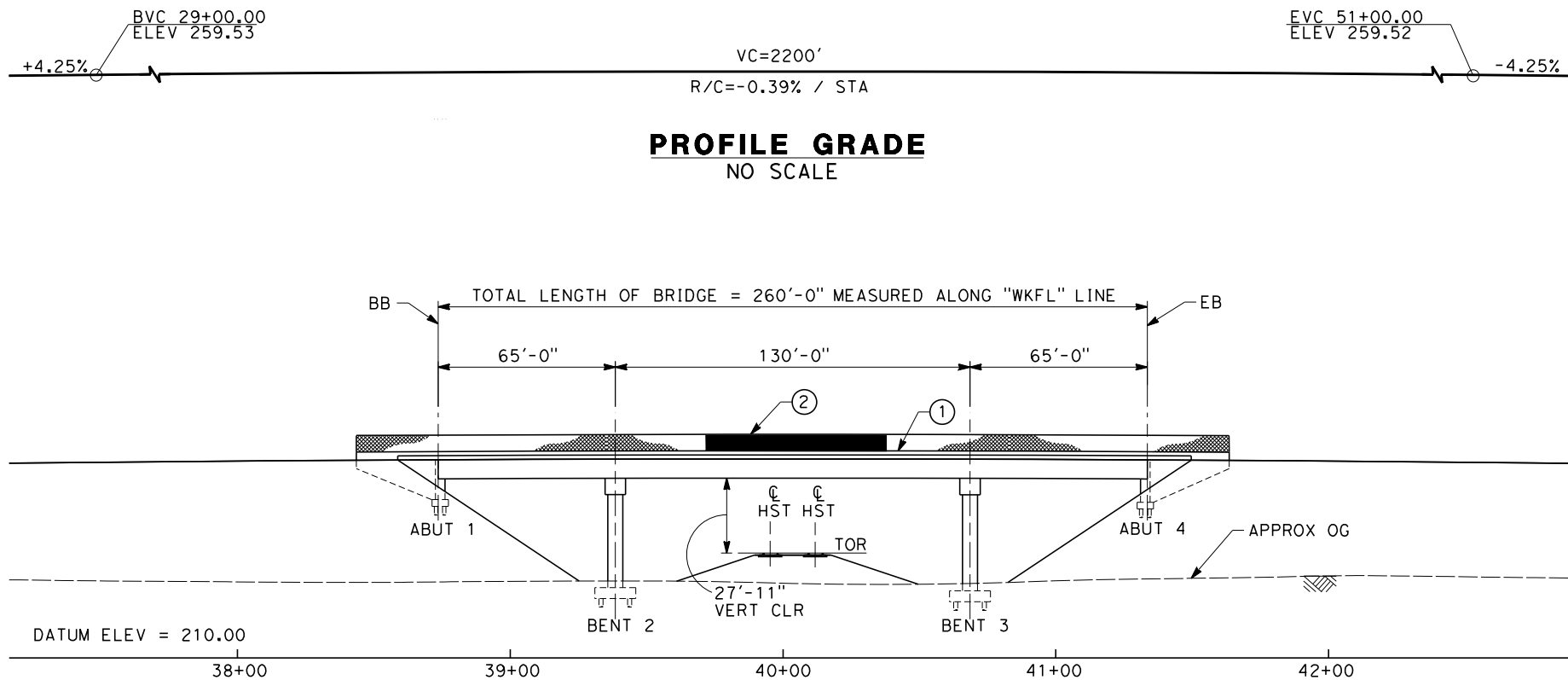
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ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
EXCELSIOR AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2351

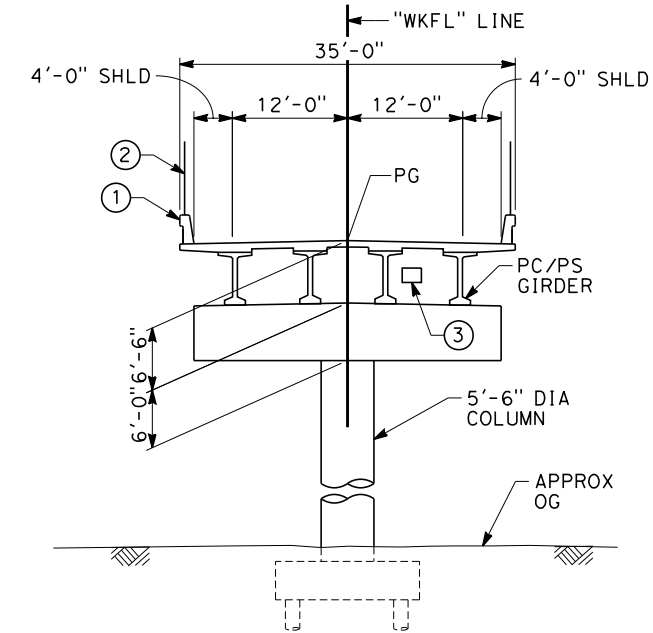
SCALE  
AS SHOWN

SHEET NO.  
3 OF 11

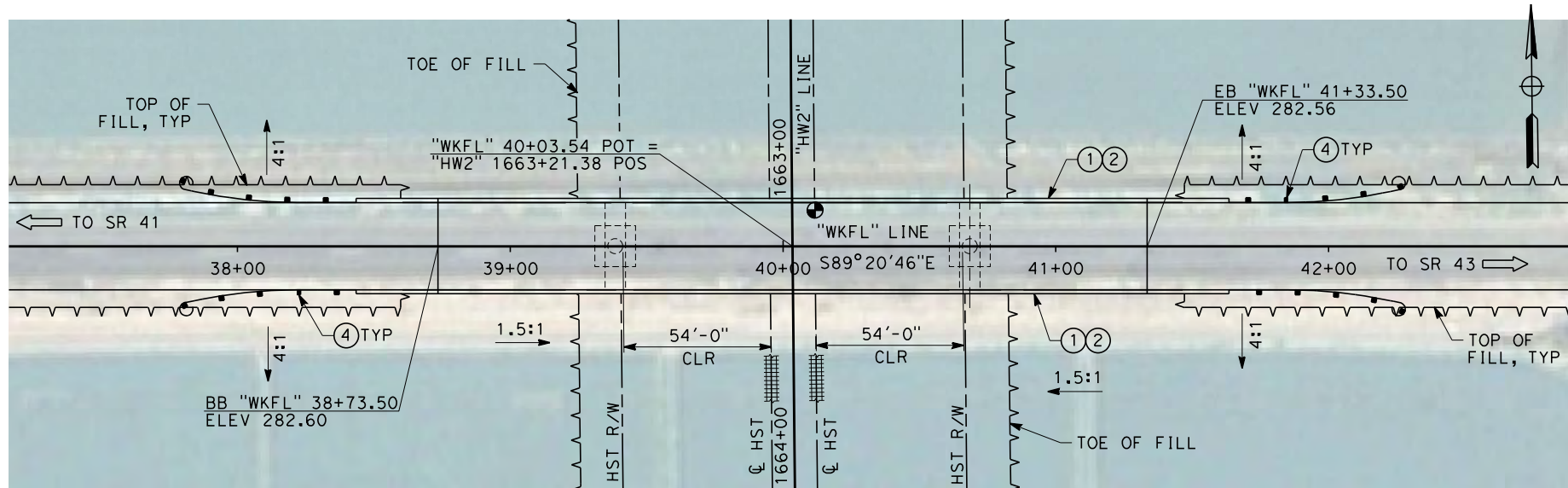


**PROFILE GRADE**  
NO SCALE

**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/23/2013 11:28:04 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\pro39009\dms86692\FB-ST-2352-HW2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

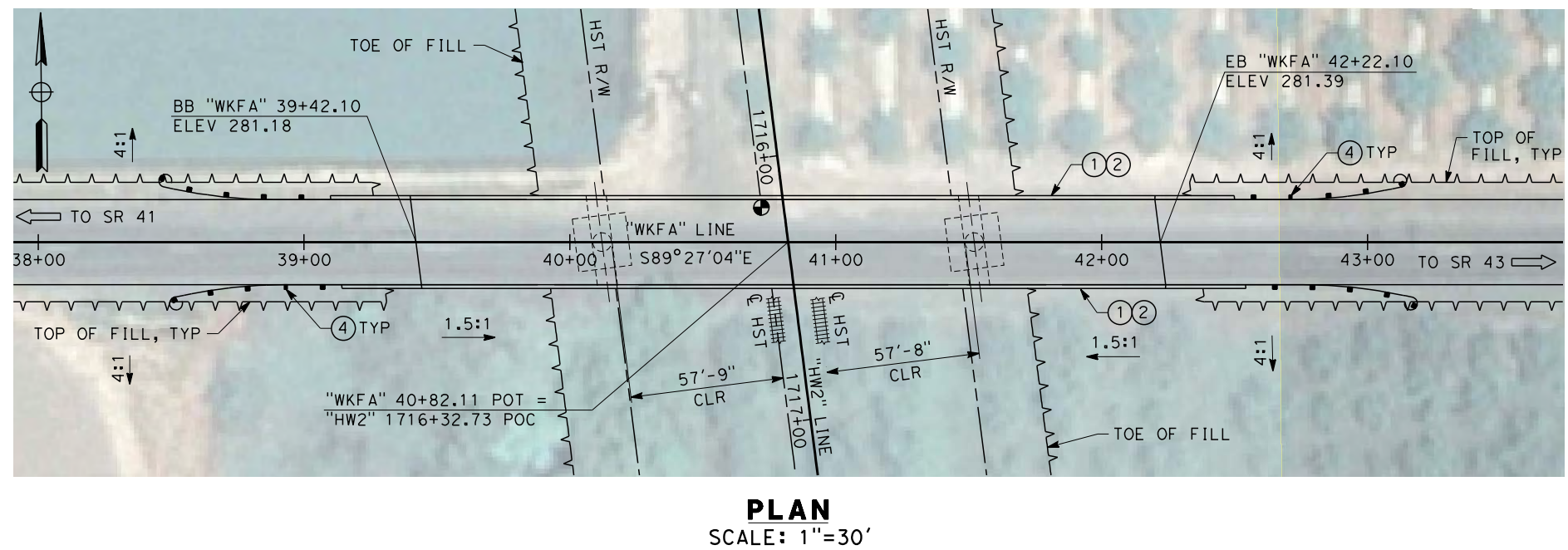
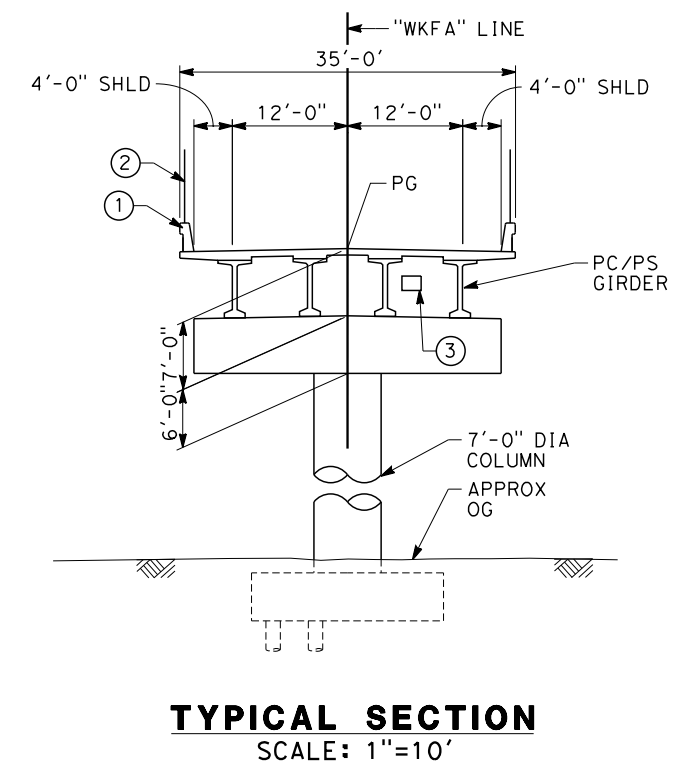
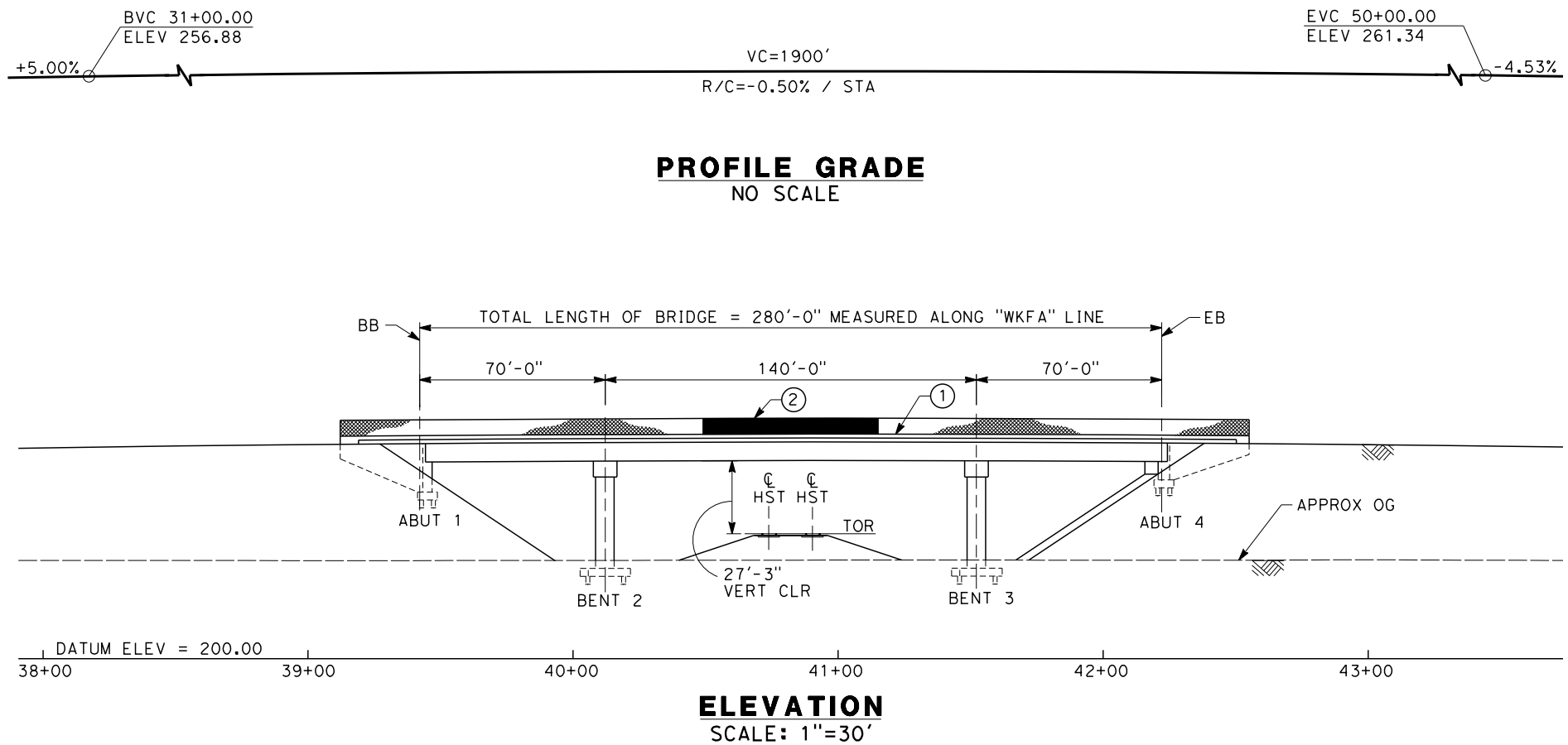
DESIGNED BY  
**L. SMITH**  
DRAWN BY  
**P. BARBER**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
FLINT AVE

CONTRACT NO.  
**HSR 06-0003**  
DRAWING NO.  
**ST2352**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**4 OF 11**



- NOTES:
1. ALL PILES NOT SHOWN.
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.
- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/24/2013 11:03:19 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_2013.dwg \\bar59603\dms86692\FB-ST-2353-HW2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
P. BARBER

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



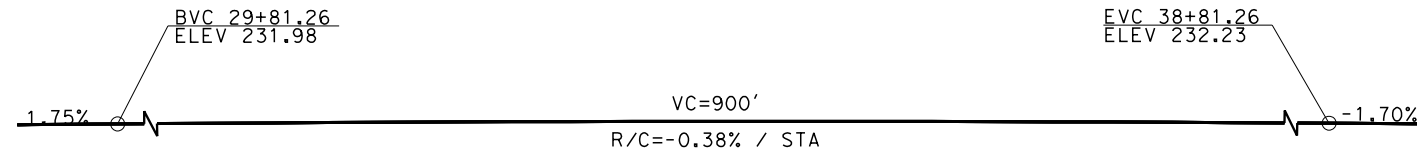
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
FARGO AVE

CONTRACT NO.  
HSR 06-0003

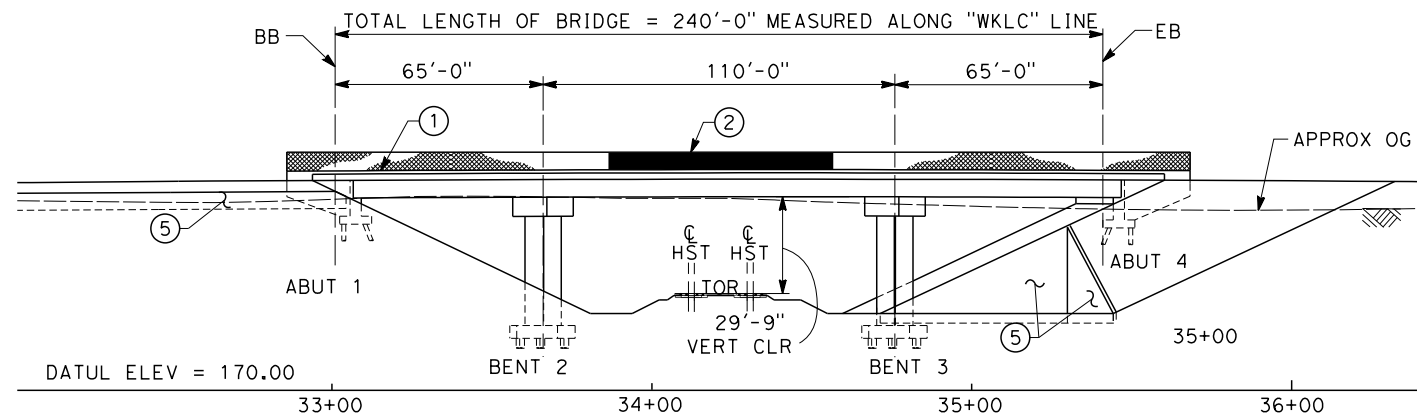
DRAWING NO.  
ST2353

SCALE  
AS SHOWN

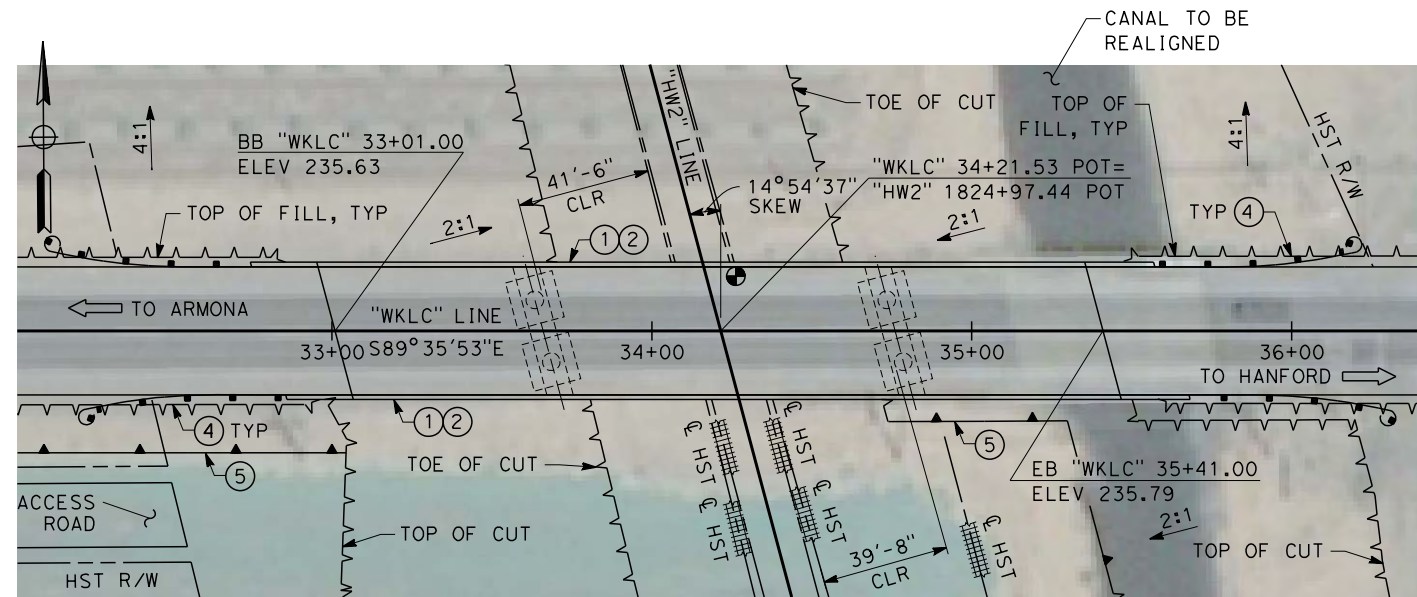
SHEET NO.  
5 OF 11



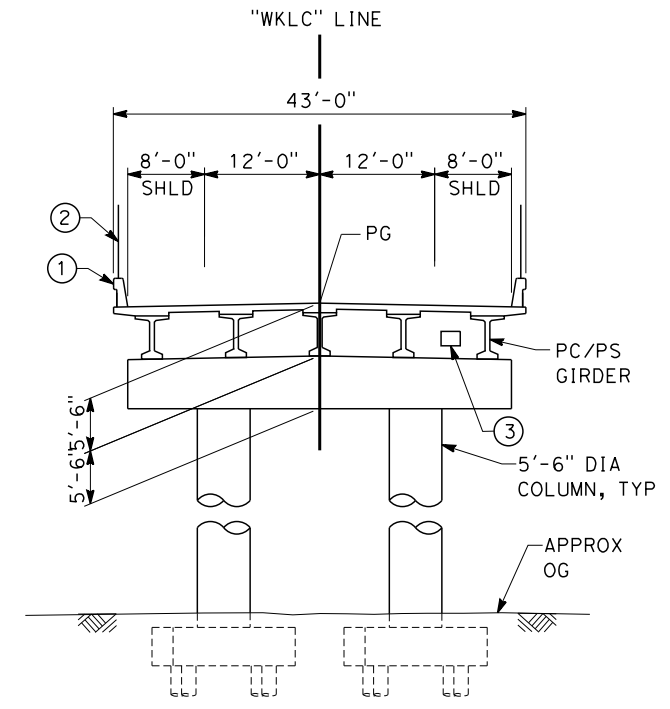
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



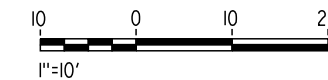
**TYPICAL SECTION**  
SCALE: 1"=10'

**NOTES:**

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASUREMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL



12/26/2013 10:05:54 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\hmm\external\mor45030\dms86692\FB-ST-2354-HW2.dgn MOR45030

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH  
DRAWN BY  
P. BARBER  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

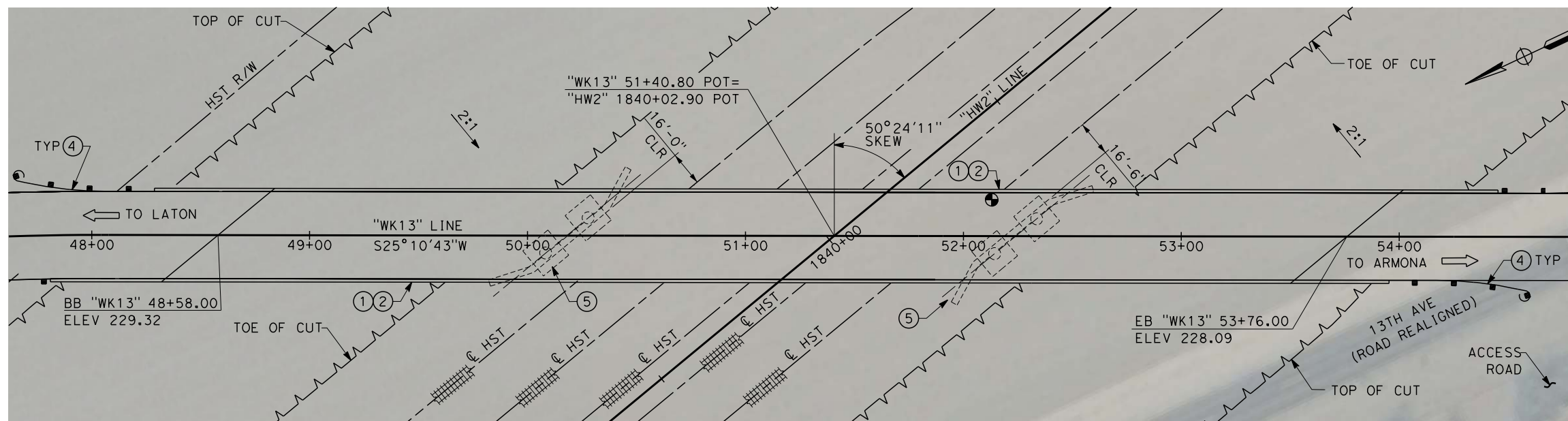
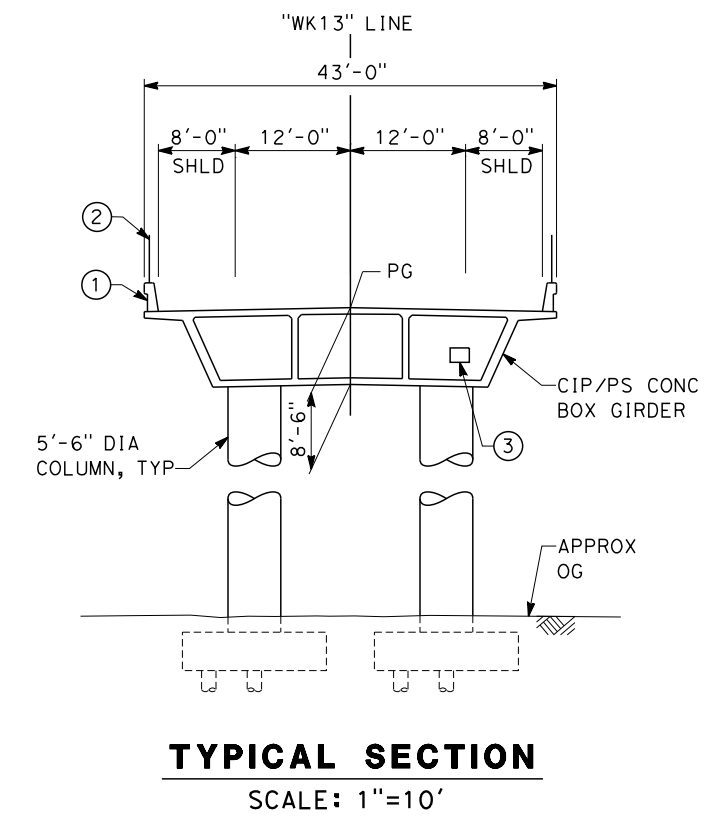
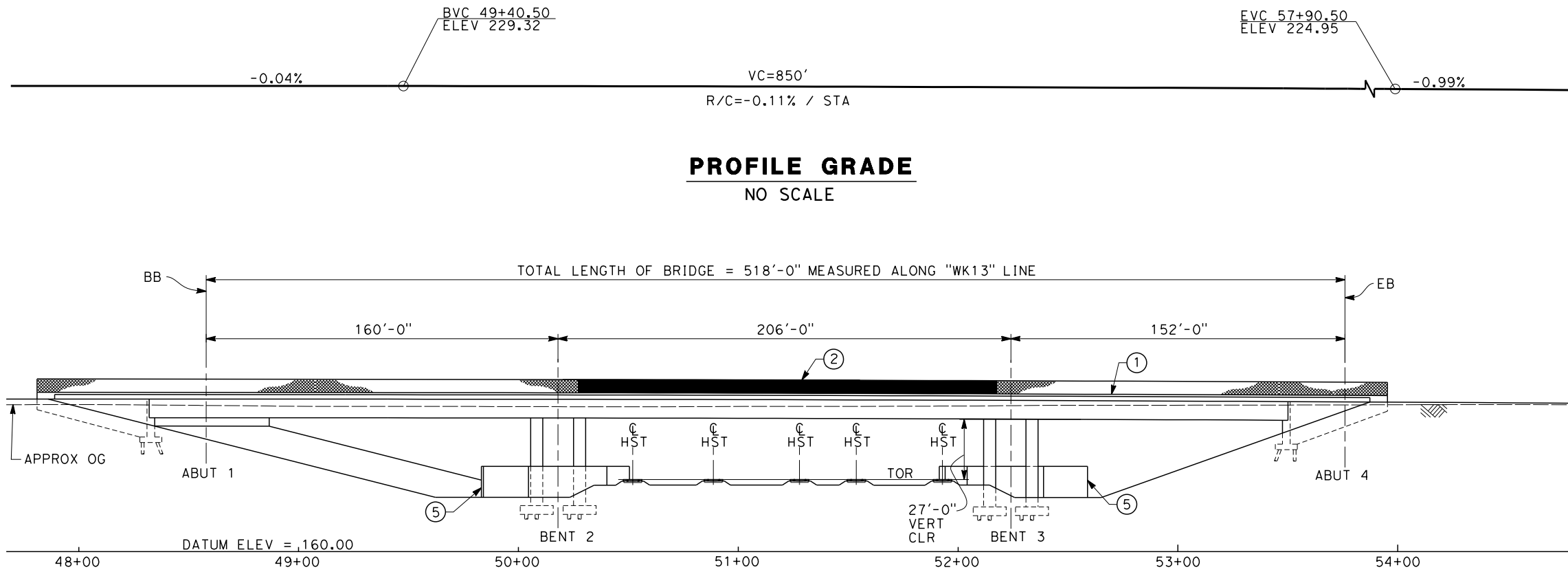
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
W LACEY BLVD

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2354

SCALE  
AS SHOWN

SHEET NO.  
6 OF 11



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN.
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR
  - ⑤ PIER PROTECTION



12/26/2013 1:46:41 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_2013.dwg \\pwworking\hmm\external\mor45030\dms86692\FB-ST-2355-HW2.dgn MOR45030

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
P. BARBER

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

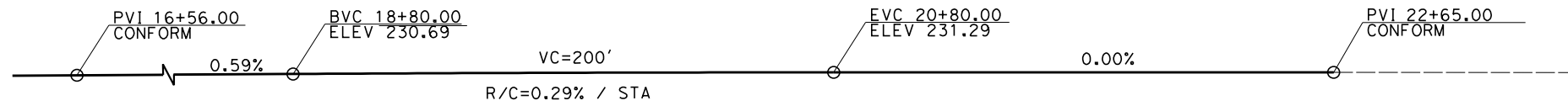
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
13TH AVE

CONTRACT NO.  
HSR 06-0003

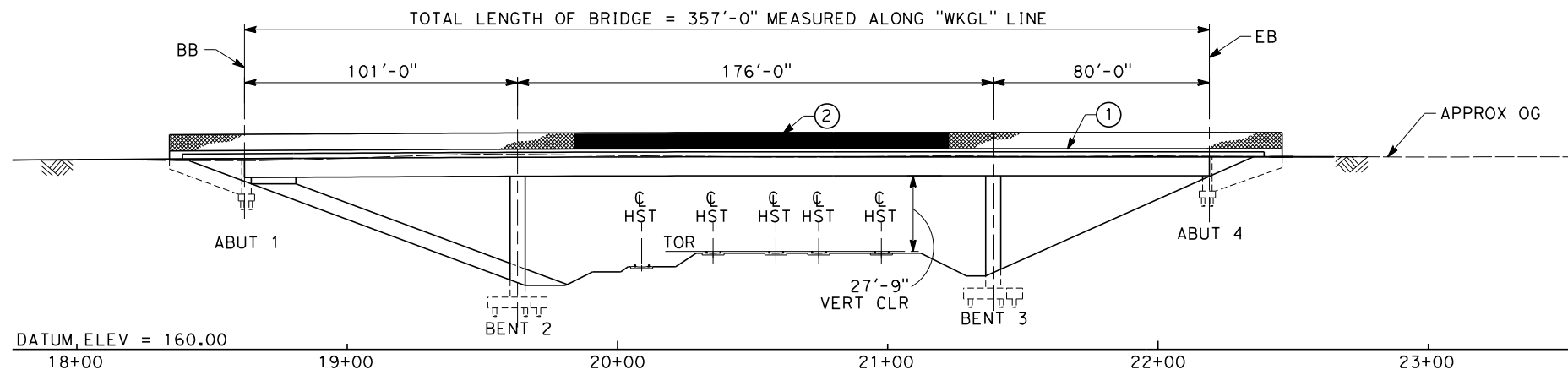
DRAWING NO.  
ST2355

SCALE  
AS SHOWN

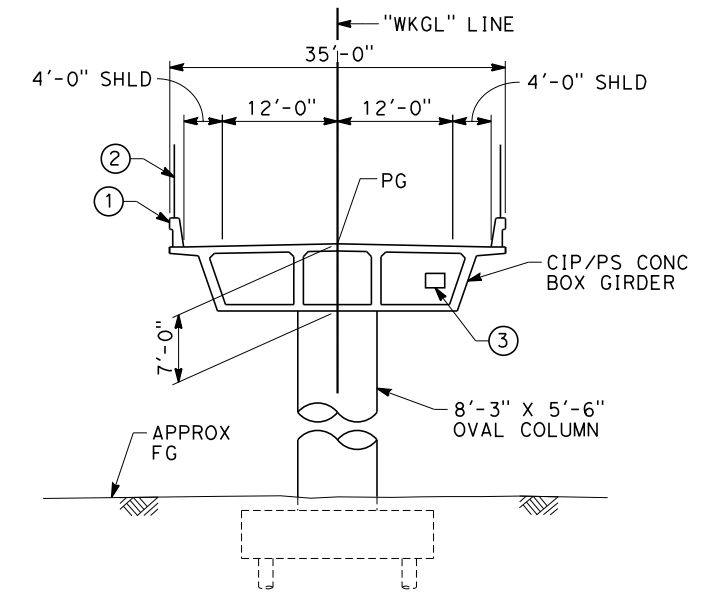
SHEET NO.  
7 OF 11



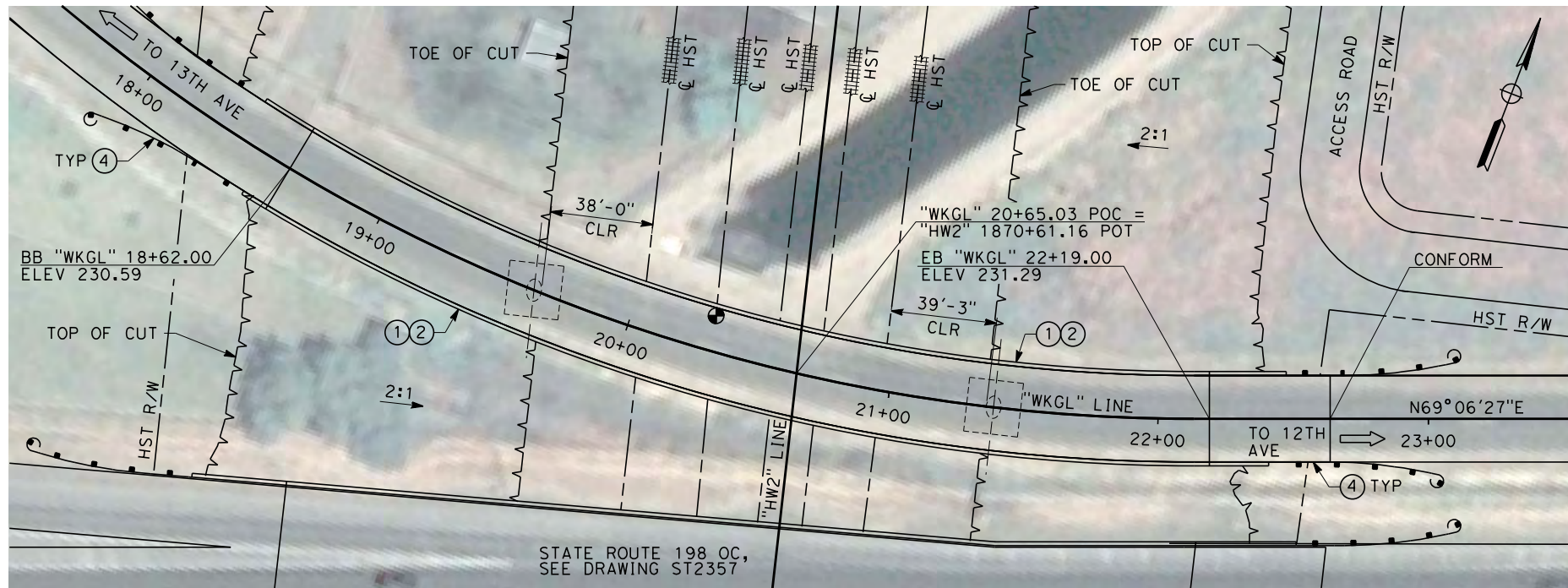
**PROFILE GRADE**  
NO SCALE



**DEVELOPED ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/24/2013 10:42:19 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\pro39009\dms86692\FB-ST-2356-HW2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**L. SMITH**  
DRAWN BY  
**P. BARBER**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

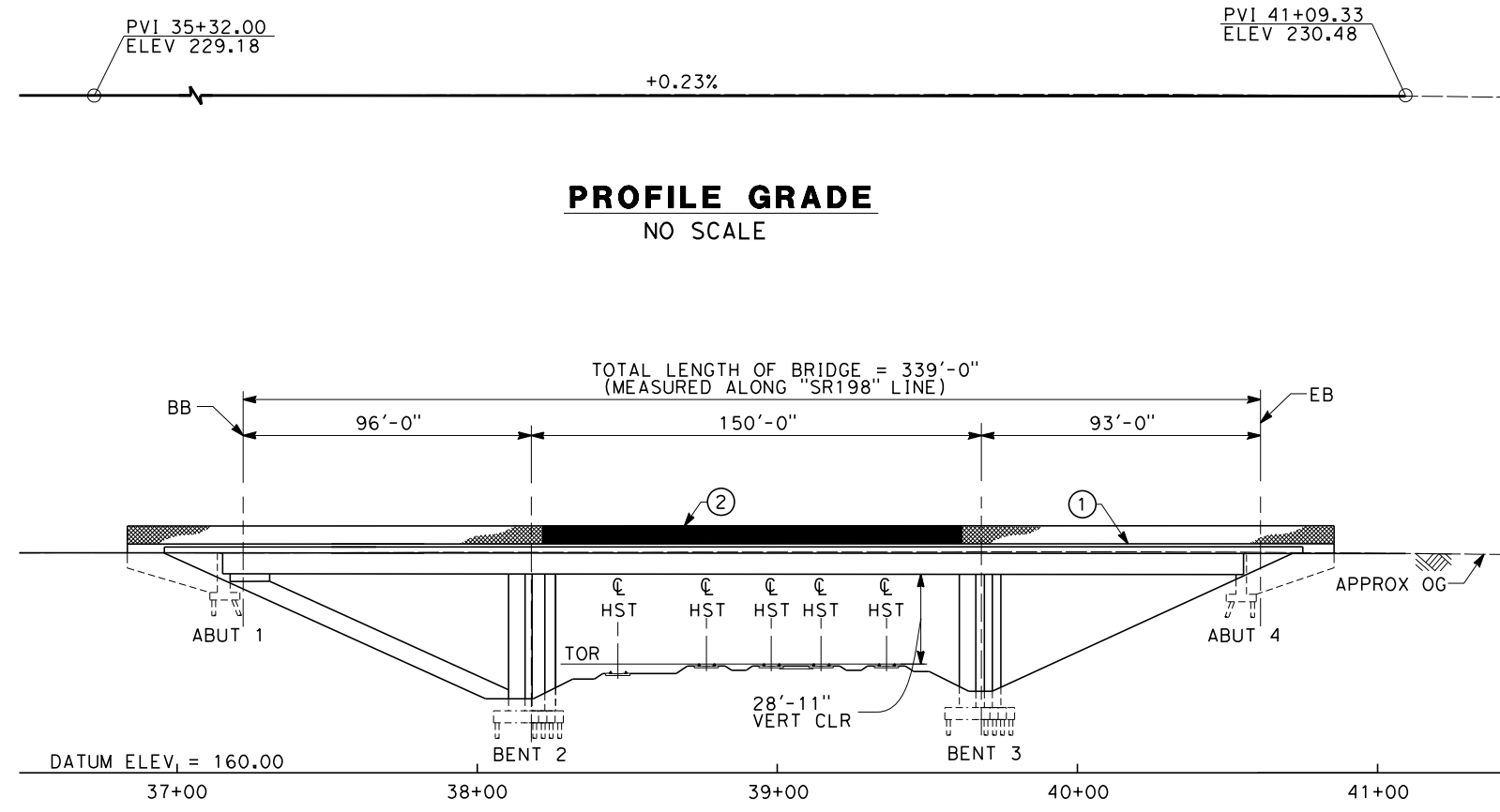
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
GLENDALE AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2356  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 11

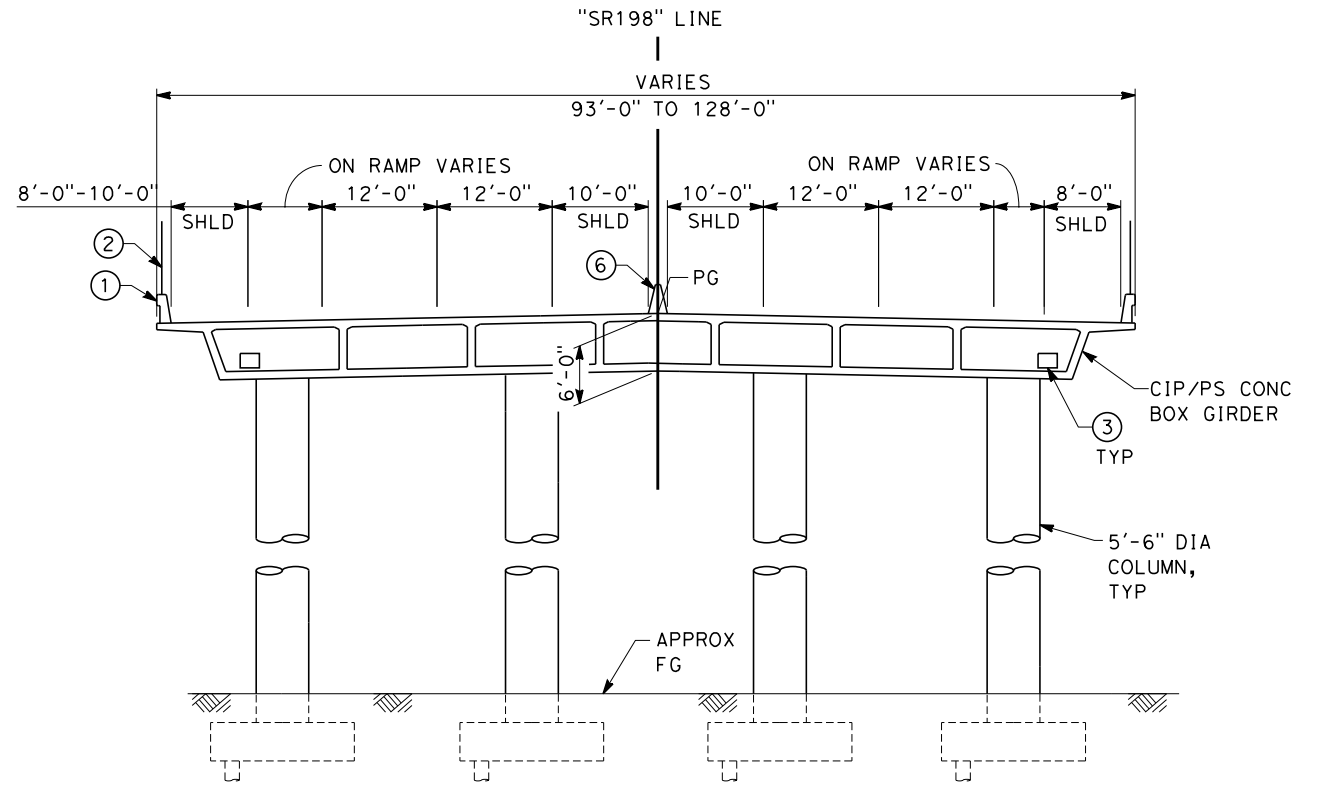
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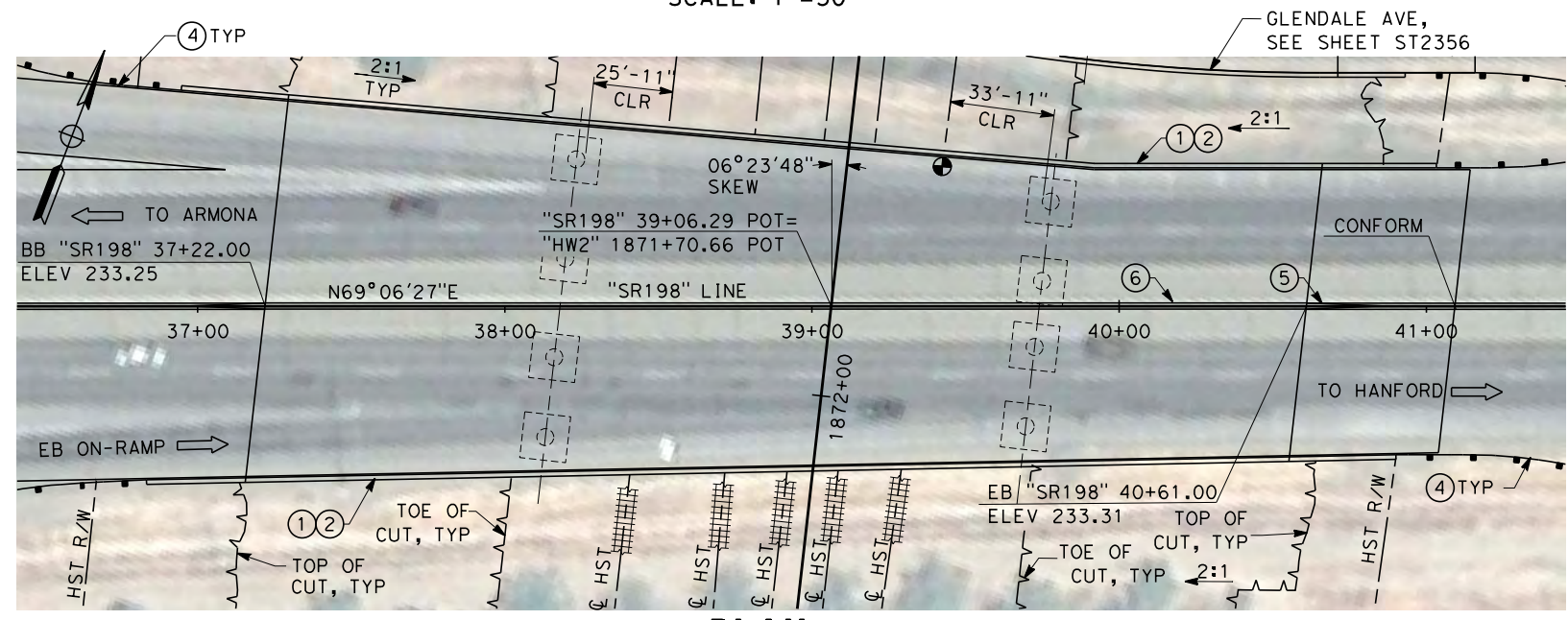
**PROFILE GRADE**  
NO SCALE

TOTAL LENGTH OF BRIDGE = 339'-0"  
(MEASURED ALONG "SR198" LINE)

**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

**NOTES:**

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.
3. STAGED CONSTRUCTION TO BE COORDINATED WITH LOCAL AGENCIES.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ CRASH CUSHION
- ⑥ CONCRETE BARRIER (TYPE 60)



REV	DATE	BY	CHK	APP	DESCRIPTION

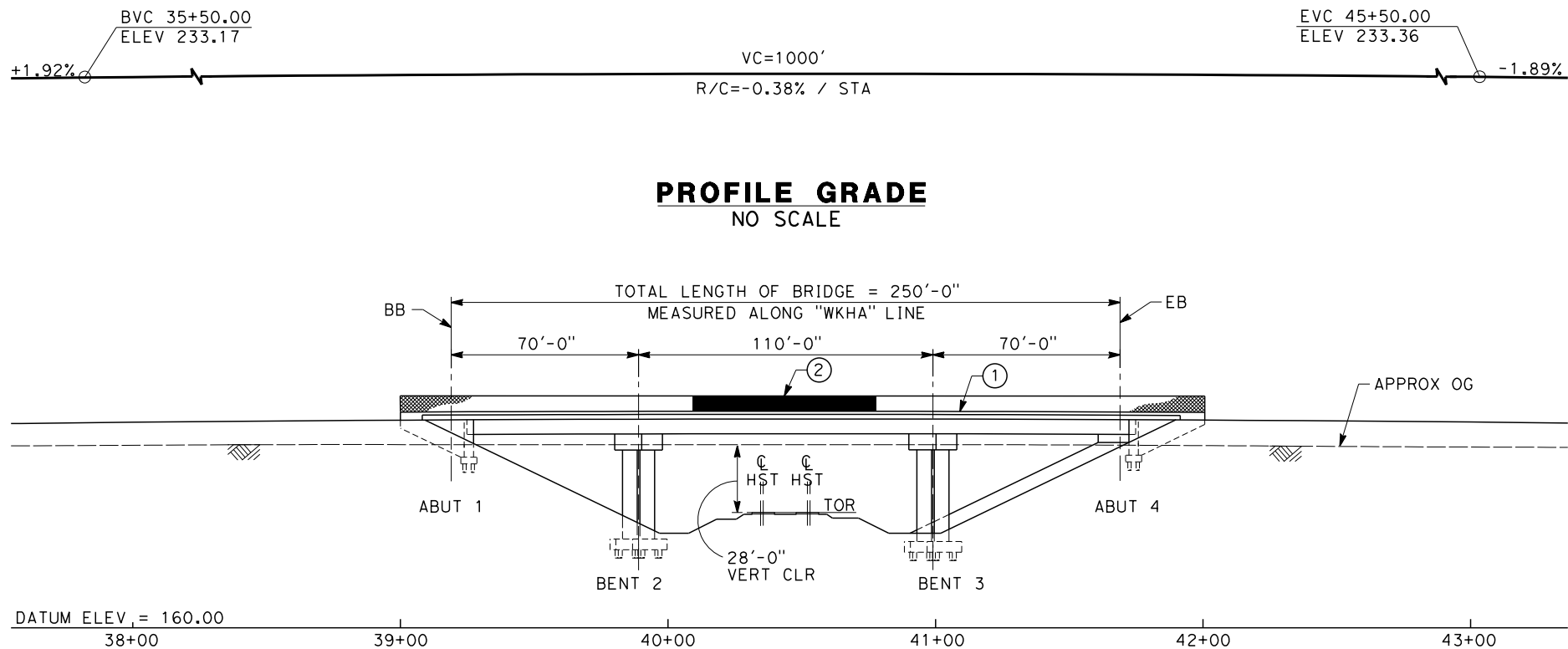
DESIGNED BY  
**L. SMITH**  
DRAWN BY  
**P. BARBER**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

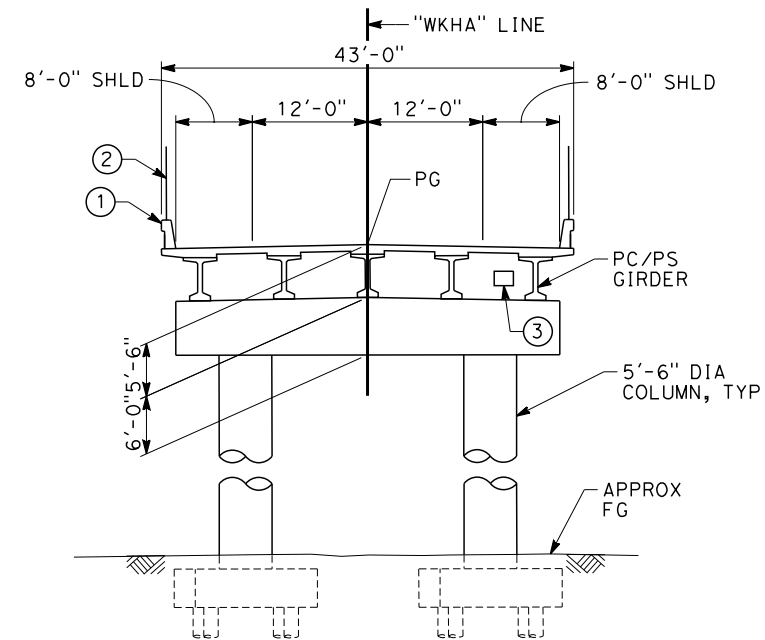


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
STATE ROUTE 198

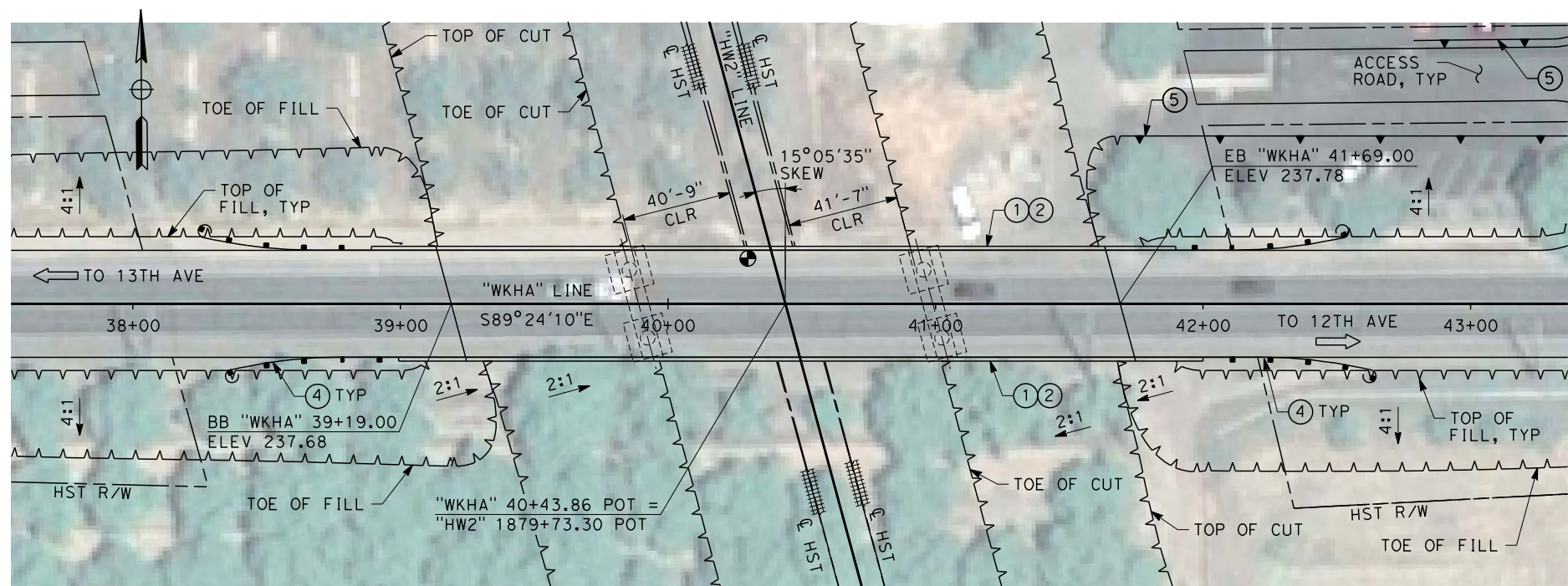
CONTRACT NO.  
**HSR 06-0003**  
DRAWING NO.  
**ST2357**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**9 OF 11**



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



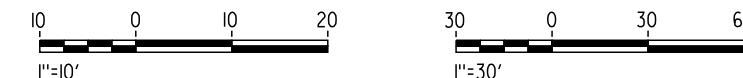
**PLAN**  
SCALE: 1"=30'

**NOTES:**

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL



MOR45030 12/26/2013 10:00:55 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\pwworking\hmm\external\mor45030\dms86692\FB-ST-2358-HW2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
P. BARBER

CHECKED BY  
E. MORAN

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
HANFORD ARMONA RD

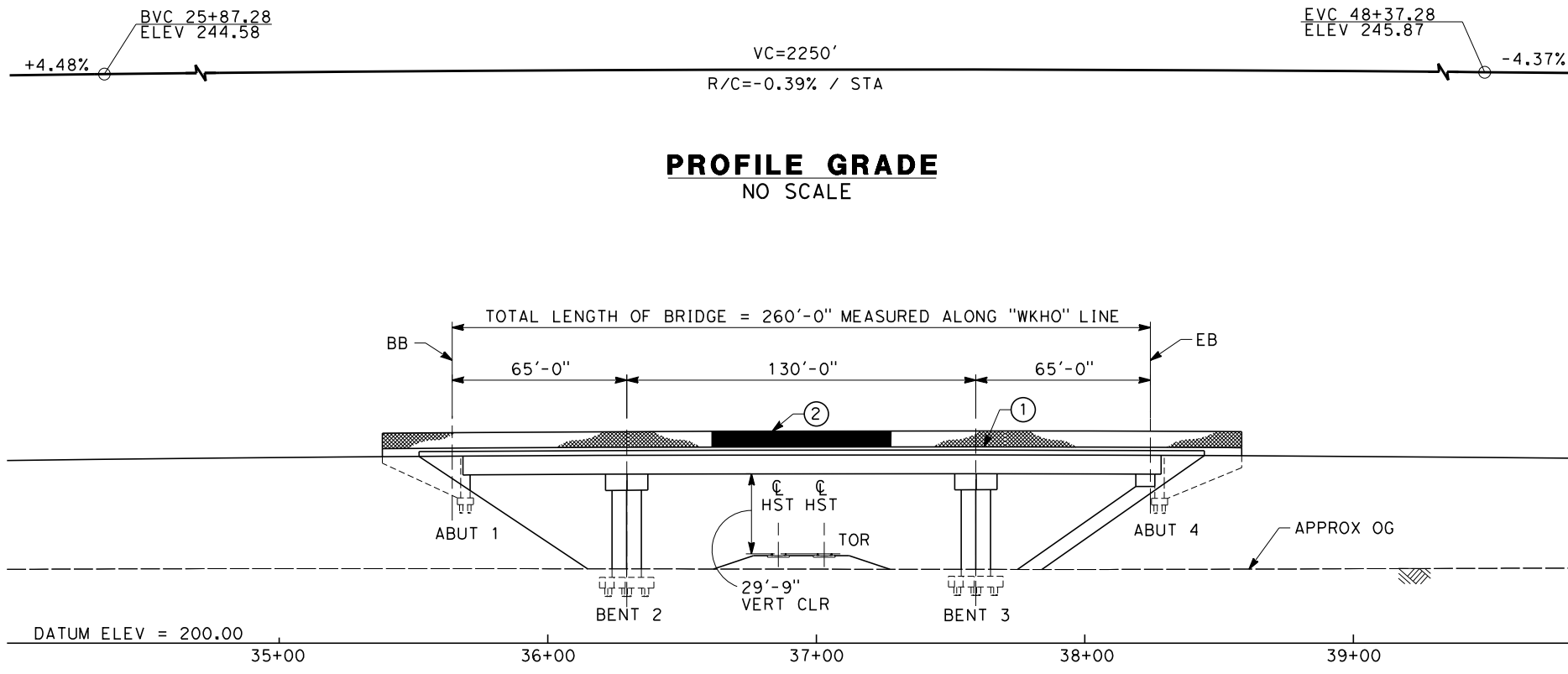
CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2358

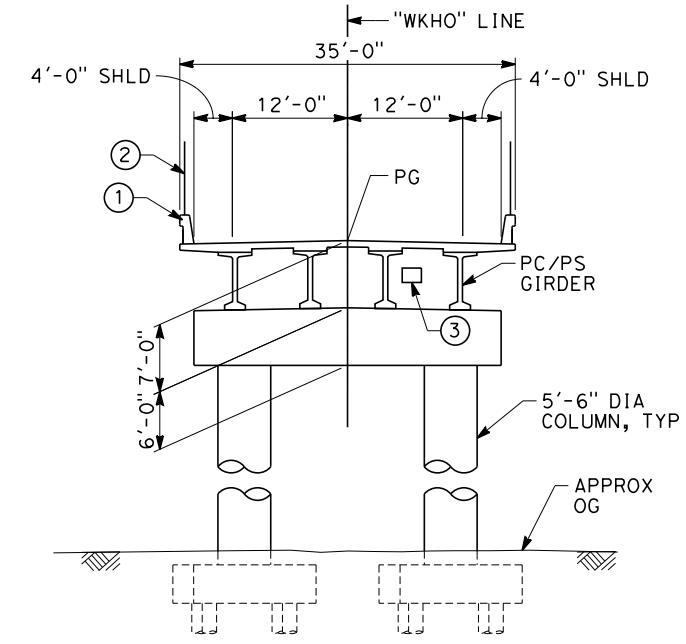
SCALE  
AS SHOWN

SHEET NO.  
10 OF 11

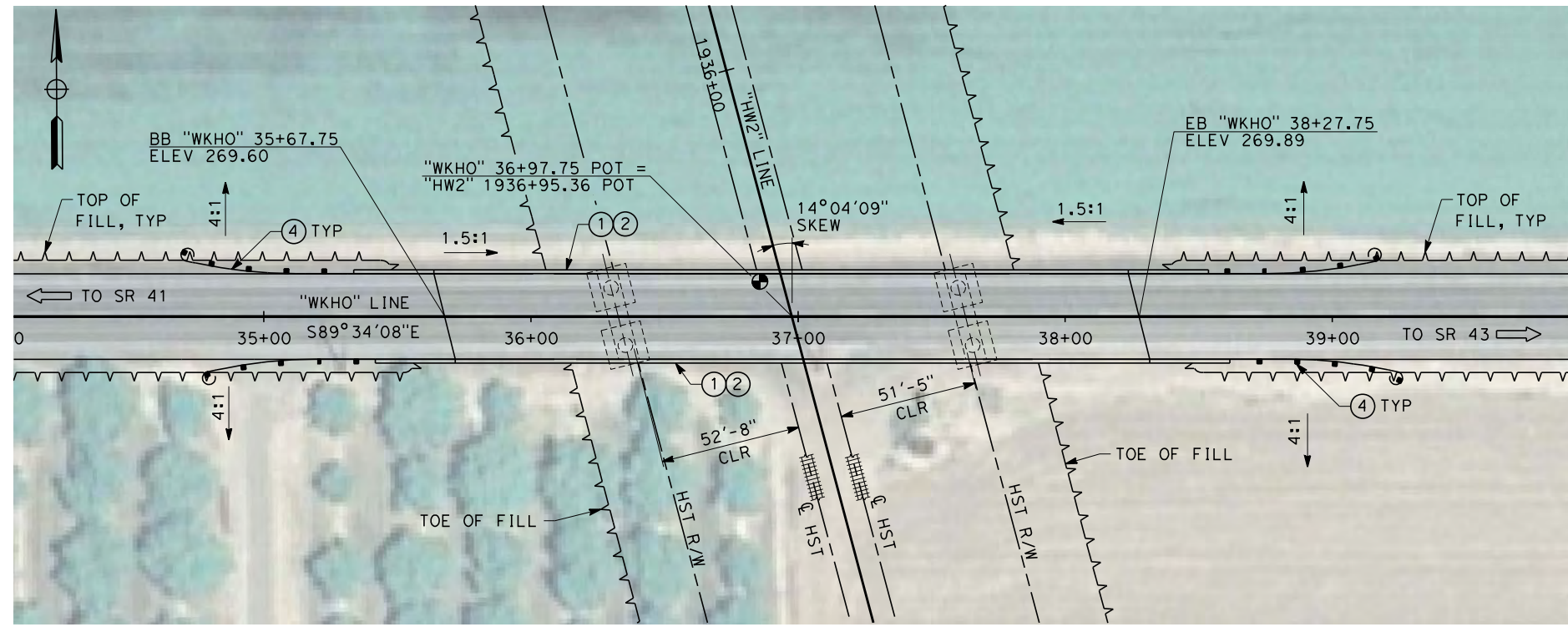




**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

- NOTES:
- ALL PILES NOT SHOWN.
  - FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/23/2013 10:09 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt: \\pwworking\hmm\external\pro39009\dms86692\FB-ST-2359-HW2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**L. SMITH**

DRAWN BY  
**P. BARBER**

CHECKED BY  
**E. MORAN**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED  
OVERHEAD PLANNING STUDY  
HOUSTON AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2359

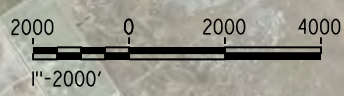
SCALE  
AS SHOWN

SHEET NO.  
11 OF 11

12/21/2013 8:59:46 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\d0133777\FB-SB-0056-K1.dgn



**LEGEND**  
 ---+---+--- EXISTING FREIGHT RAILROAD  
 ————— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

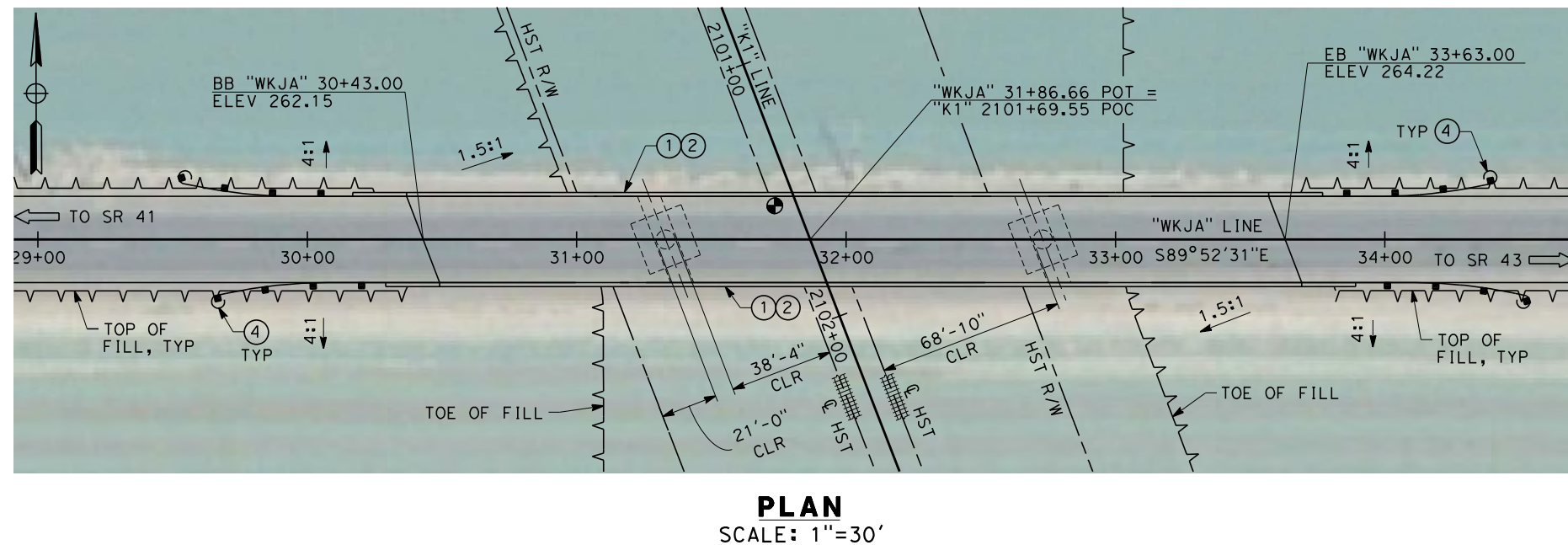
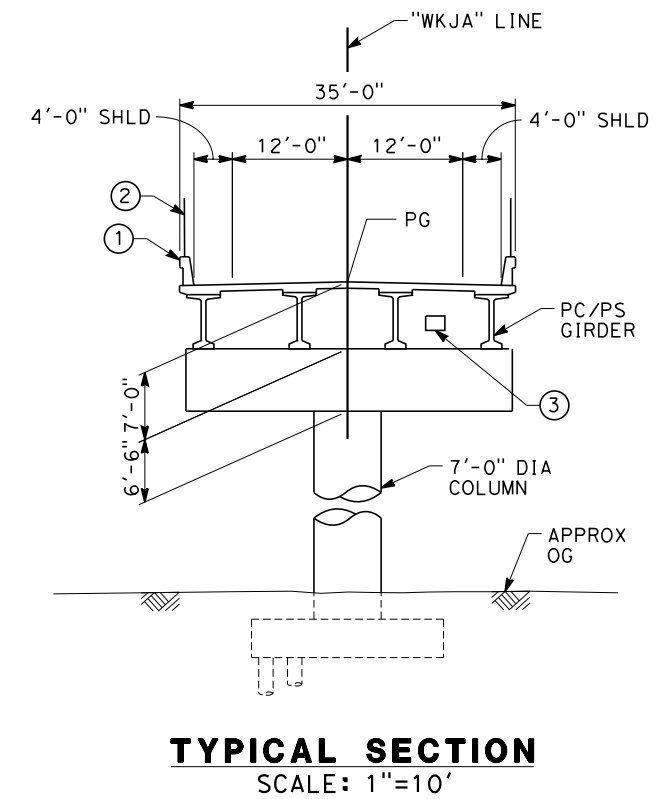
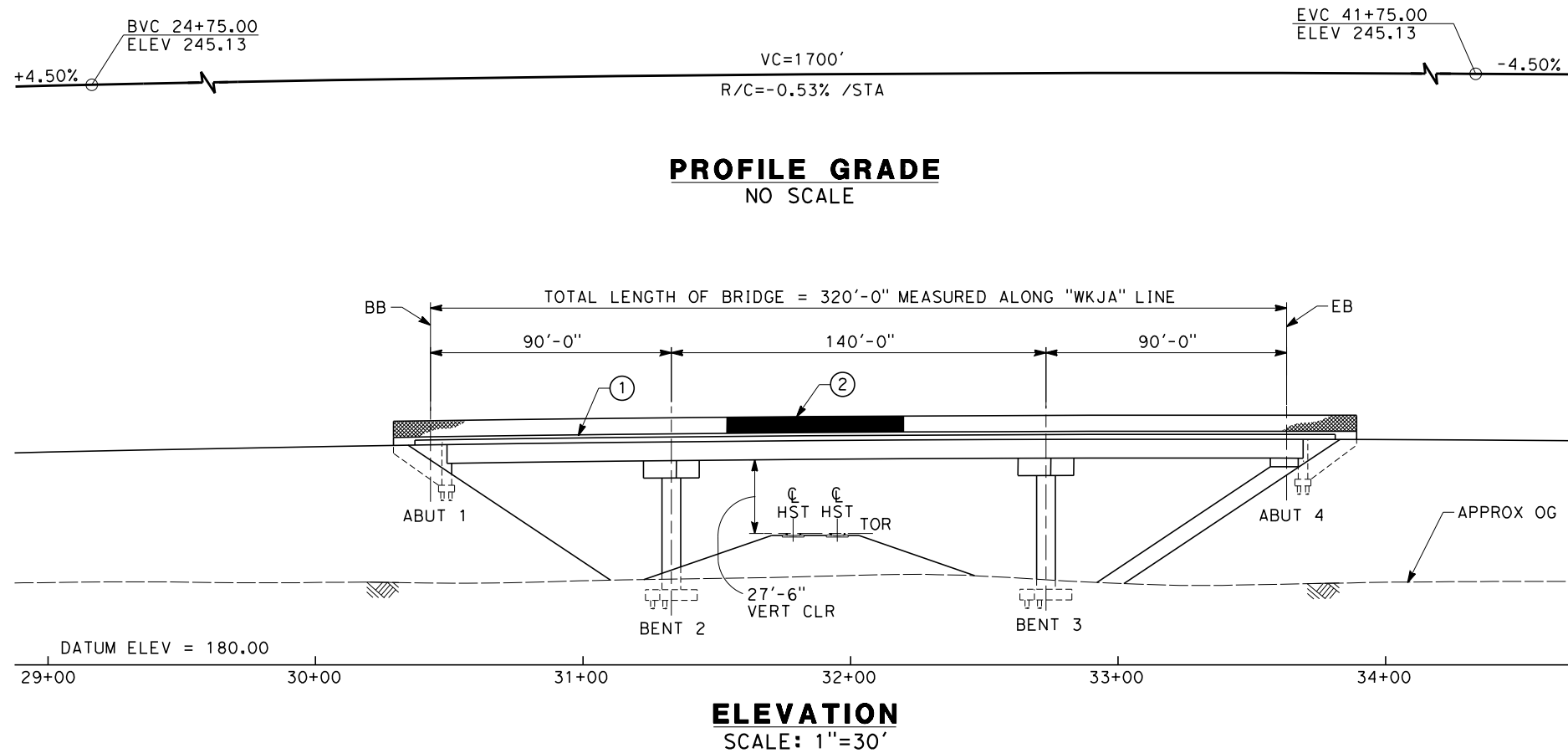
DESIGNED BY  
**B. LUSCOMBE**  
 DRAWN BY  
**D. BARNHART**  
 CHECKED BY  
**M. AMINI**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 KAWEAH SUBSECTION  
 ALIGNMENT K1  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
SB0056  
 SCALE  
AS SHOWN  
 SHEET NO.  
1 OF 5



- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/24/2013 10:06:31 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt: \\pwworking\hmm\external\bar50597\FB-ST-2320-K1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**L. SMITH**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

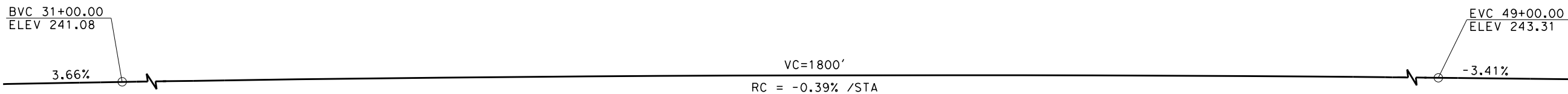
KAWEAH SUBSECTION  
ALIGNMENT K1  
OVERHEAD PLANNING STUDY  
JACKSON AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2320

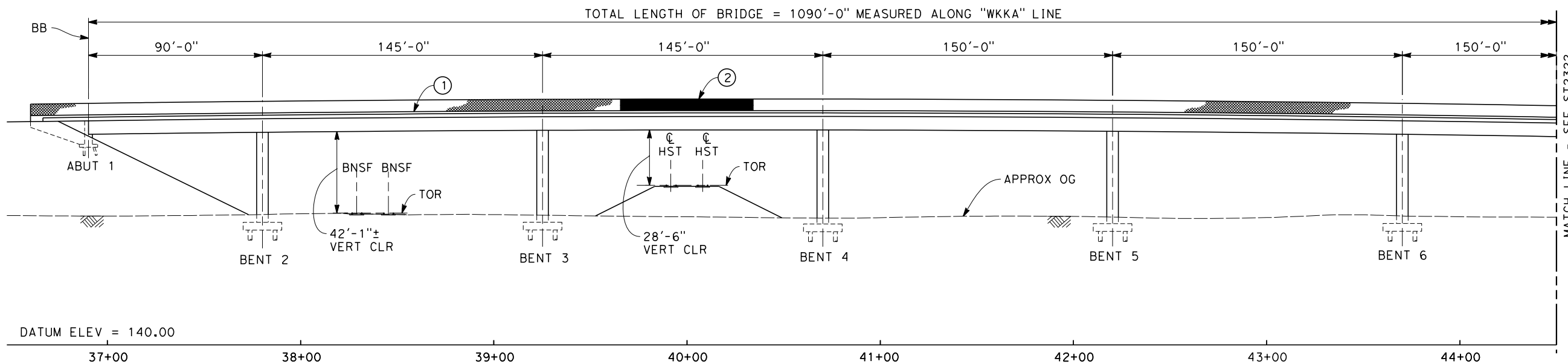
SCALE  
AS SHOWN

SHEET NO.  
2 OF 5



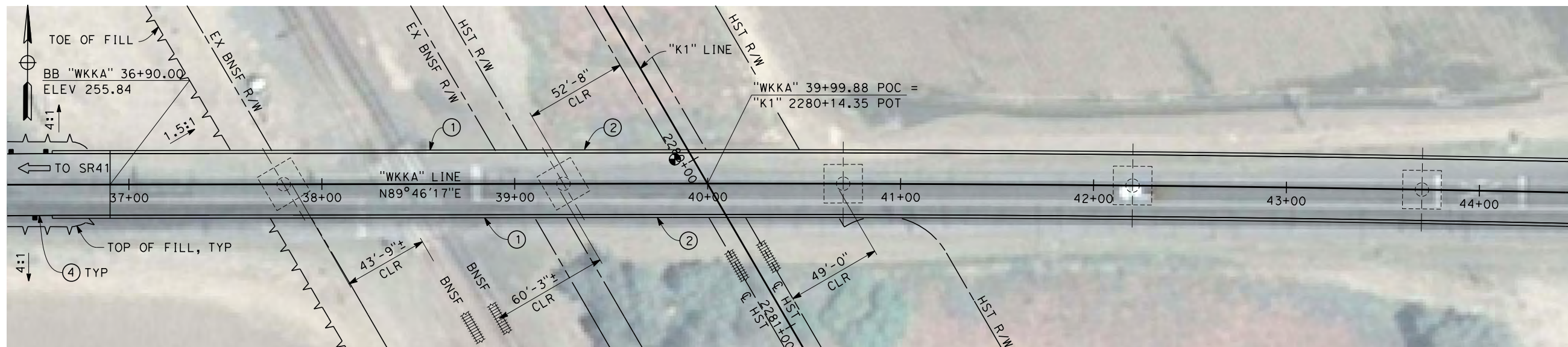
NOTE:  
FOR NOTES AND LEGEND  
SEE SHEET ST2322

**PROFILE GRADE**  
NO SCALE

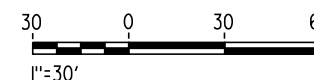


DATUM ELEV = 140.00

**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



12/24/2013 10:01:20 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt \\pwworking\hmm\external\bar50597\d0133777\FB-ST-2321-K1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

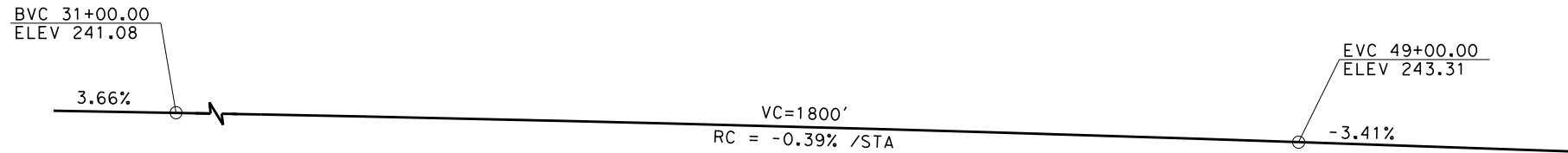
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. AMINI**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

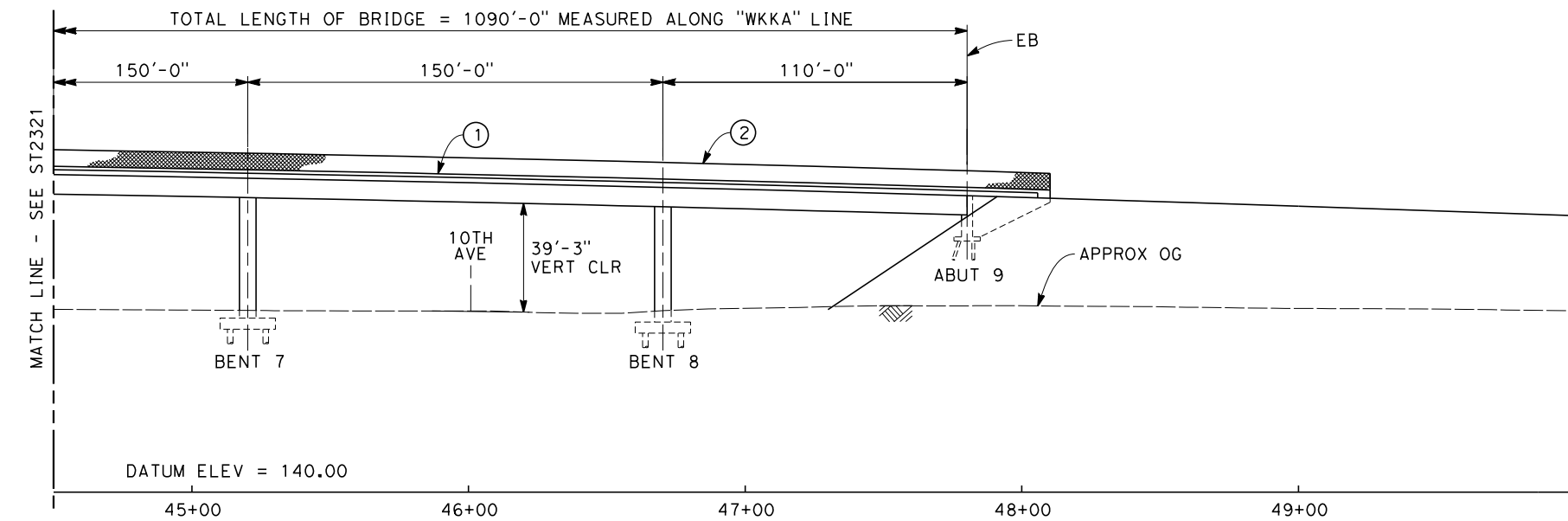


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K1  
OVERHEAD PLANNING STUDY  
KANSAS AVE

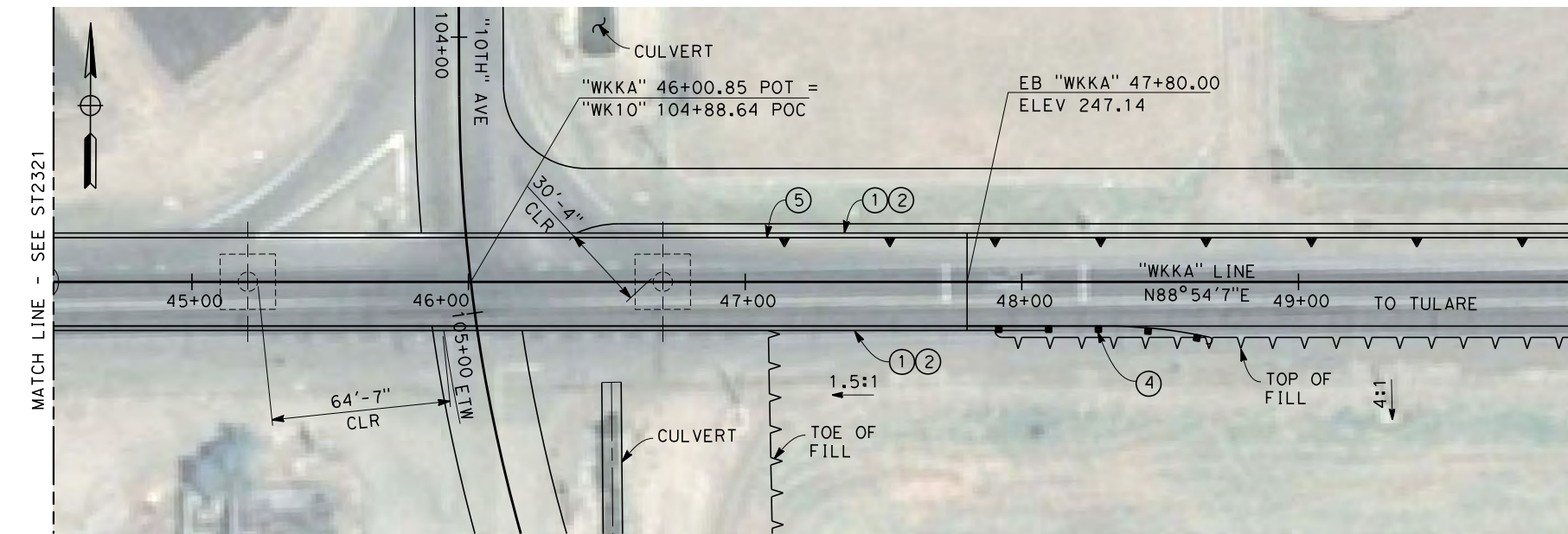
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HSR 06-0003  
DRAWING NO.  
ST2321  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 5



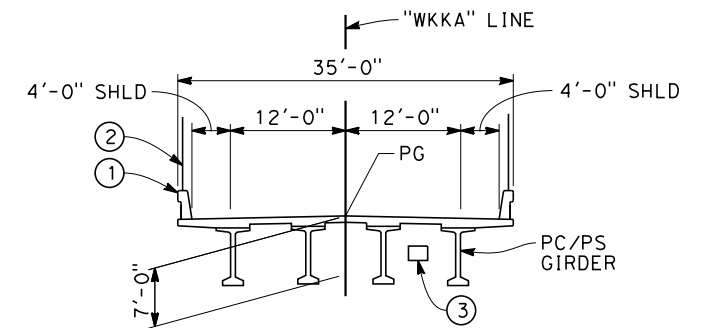
**PROFILE GRADE**  
NO SCALE



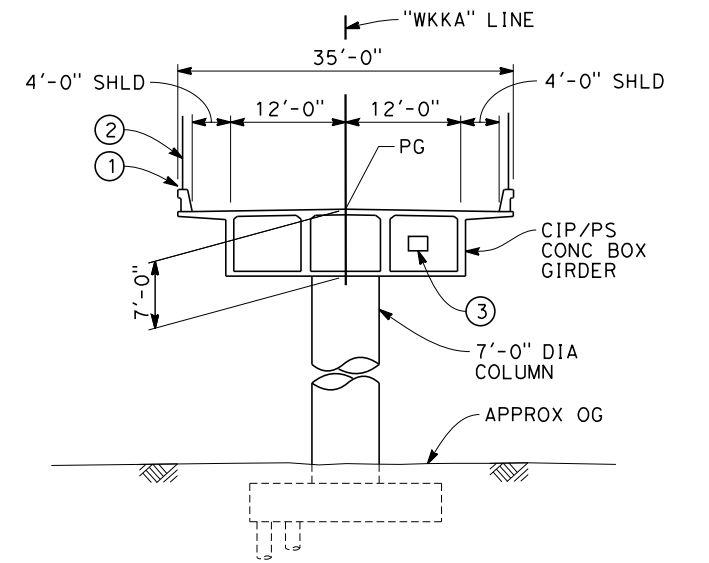
**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



**SECTION OVER BNSF**



**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

- 1 ALL PILES NOT SHOWN
- 2 FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLAN.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL



12/24/2013 10:04:13 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt \\pwworking\hmm\external\bar50597\bar50597\FB-ST-2322-K1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

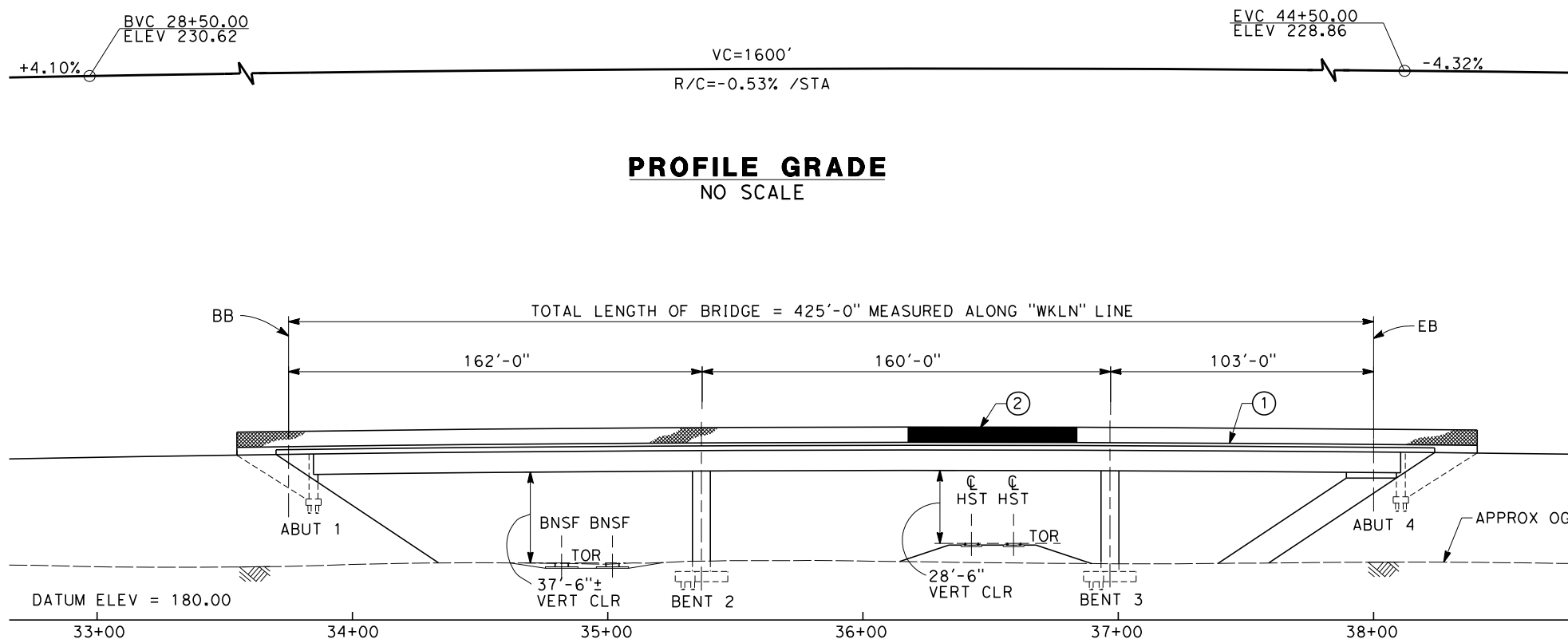
DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. AMINI**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



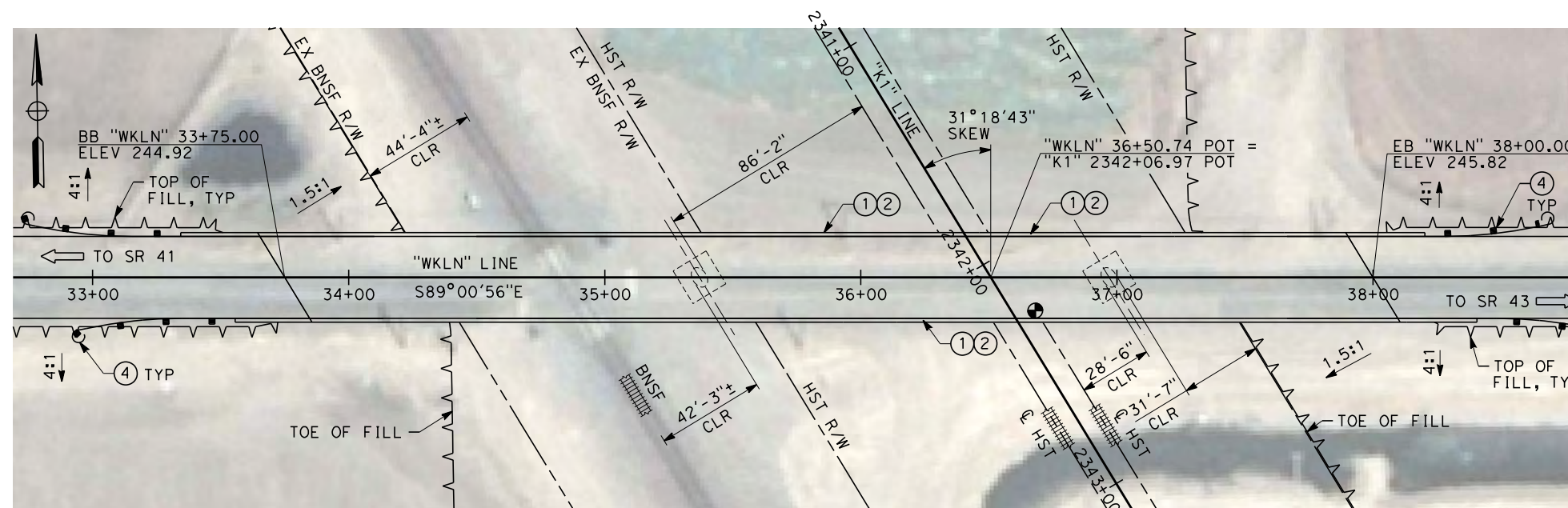
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K1  
OVERHEAD PLANNING STUDY  
KANSAS AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2322  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 5

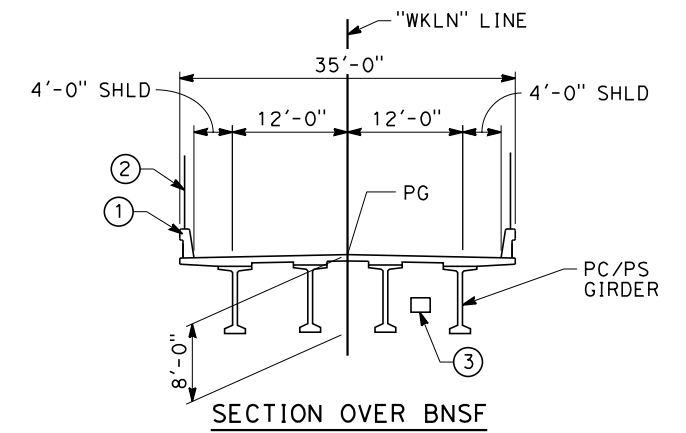


**PROFILE GRADE**  
NO SCALE

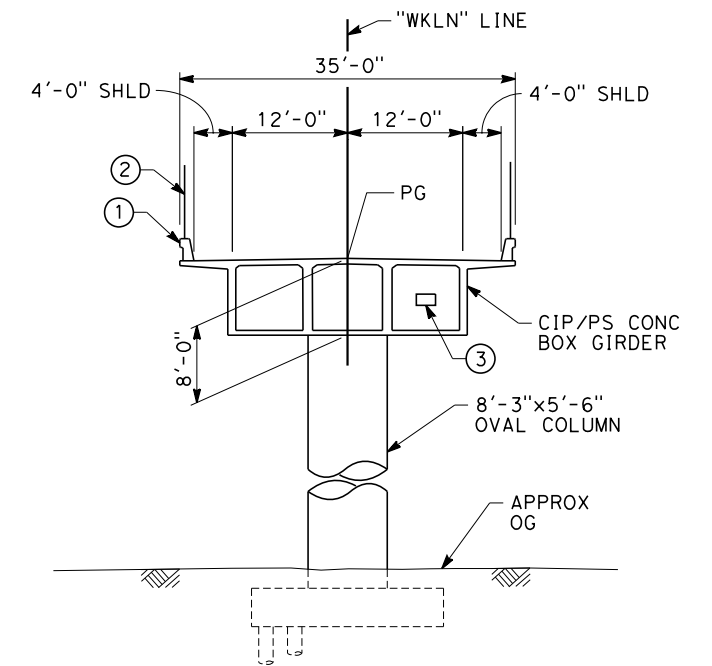
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SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



**SECTION OVER BNSF**



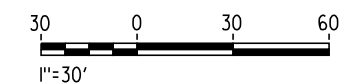
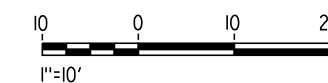
**TYPICAL SECTIONS**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/24/2013 8:58:04 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\bar50597\d0133777\FB-ST-2323-K1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**L. SMITH**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



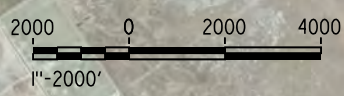
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K1  
OVERHEAD PLANNING STUDY  
LANSING AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2323  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 5

12/20/2013 11:30 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\dms91107\FB-SB-0057-K2.dgn



**LEGEND**  
 ---+--- EXISTING FREIGHT RAILROAD  
 ——— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

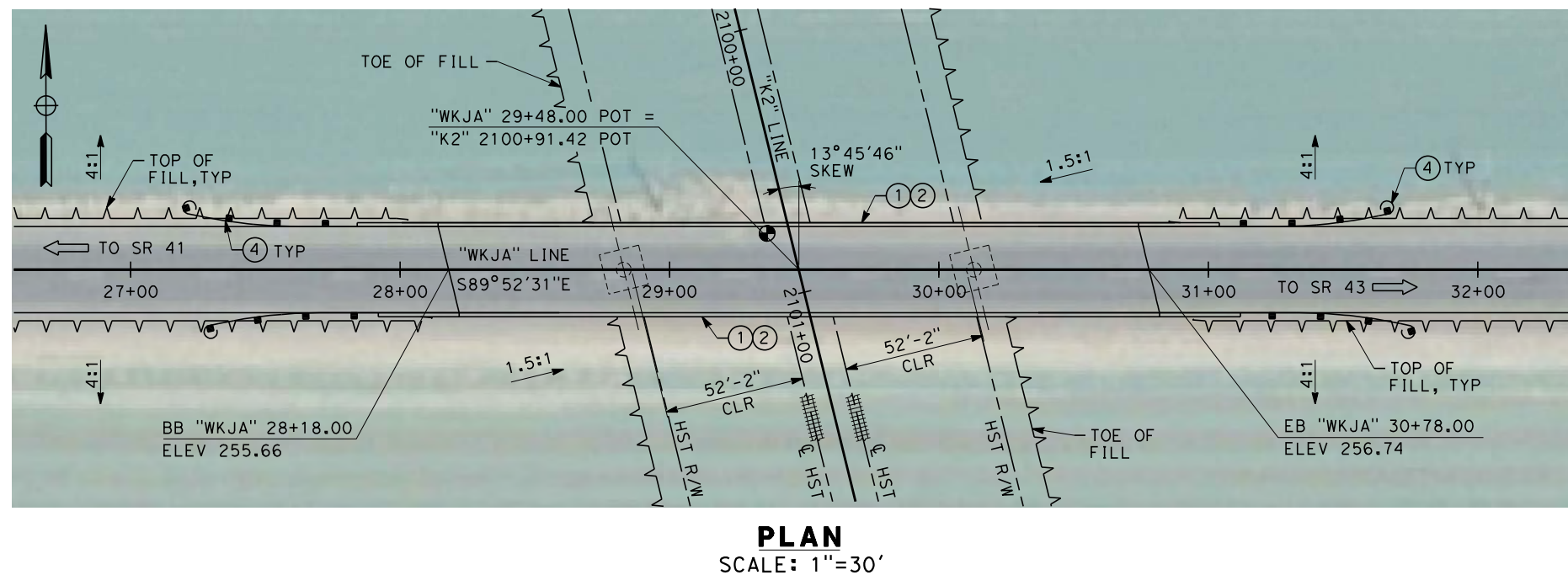
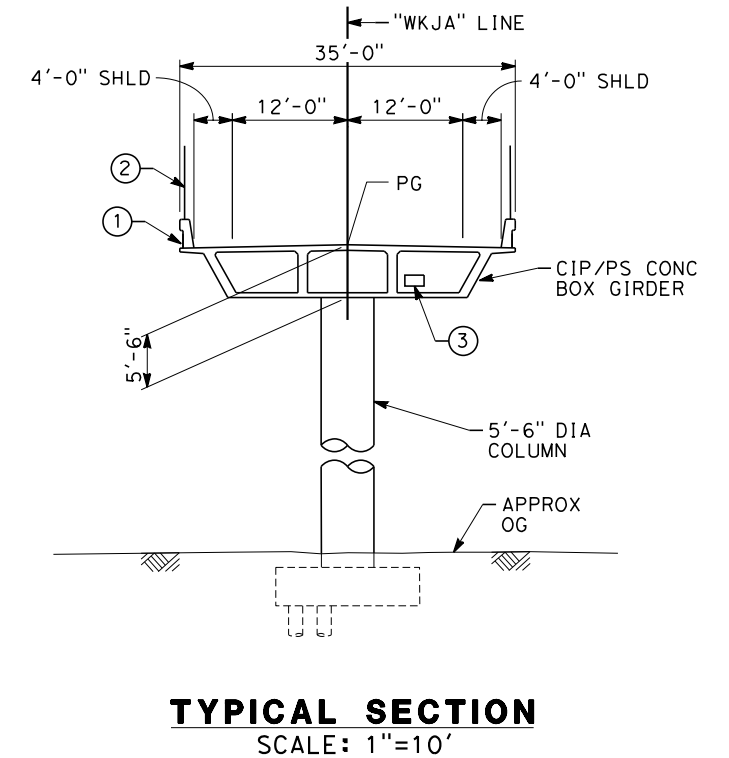
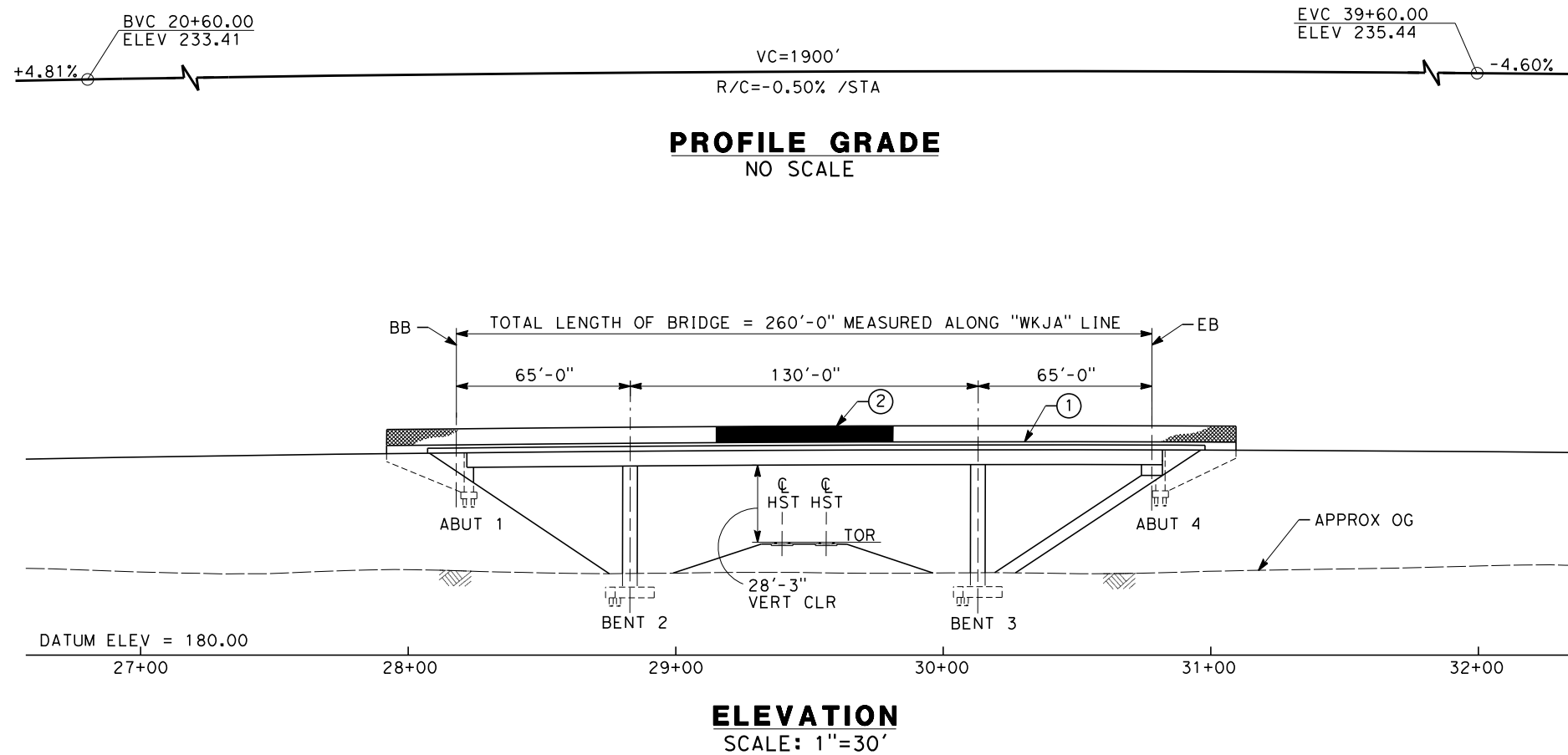
DESIGNED BY  
**B. LUSCOMBE**  
 DRAWN BY  
**D. BARNHART**  
 CHECKED BY  
**M. ANDREWS**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 KAWEAH SUBSECTION  
 ALIGNMENT K2  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
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 DRAWING NO.  
SB0057  
 SCALE  
AS SHOWN  
 SHEET NO.  
1 OF 4

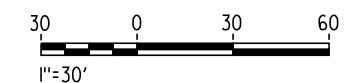
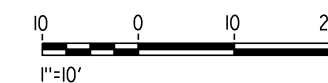


**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



AND52110 12/20/2013 5:20:15 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt:wpworking\hmm\external\and52110\dms91107\FB-ST-2330-K2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**M. ANDREWS**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

KAWEAH SUBSECTION  
ALIGNMENT K2  
OVERHEAD PLANNING STUDY  
JACKSON AVE

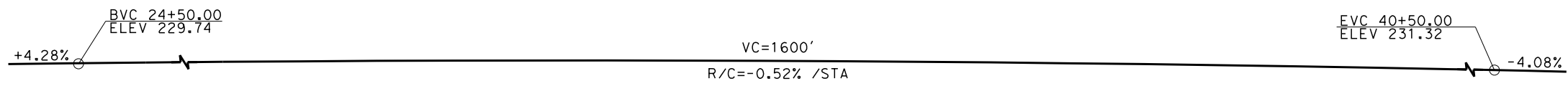
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HSR 06-0003

DRAWING NO.  
ST2330

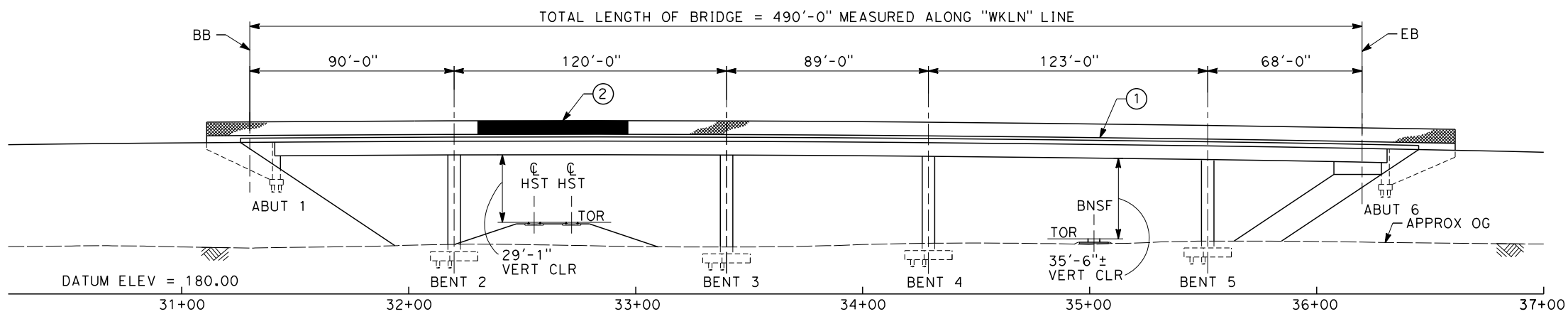
SCALE  
AS SHOWN

SHEET NO.  
2 OF 4

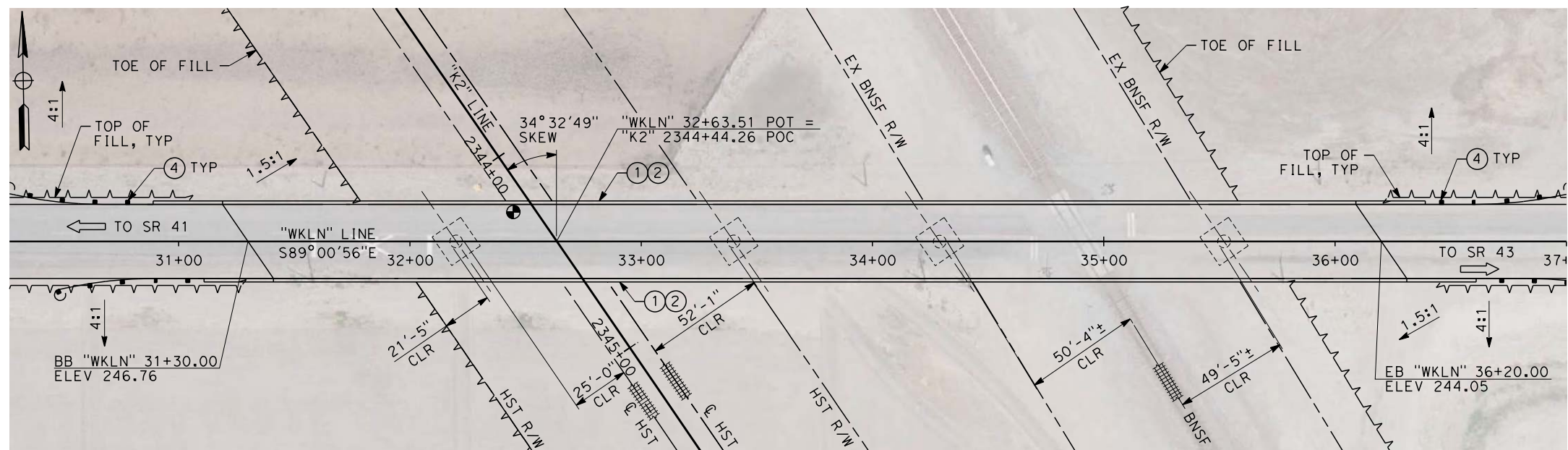




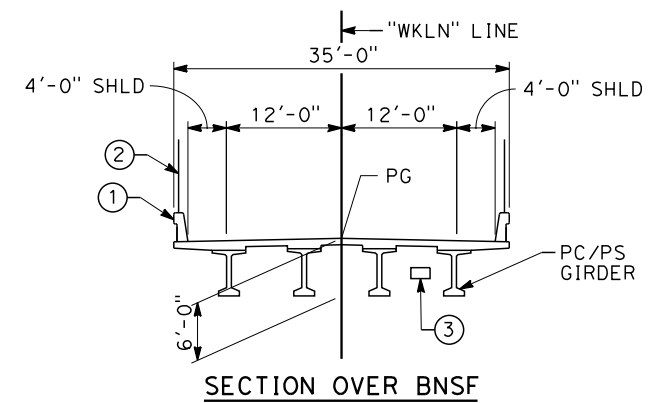
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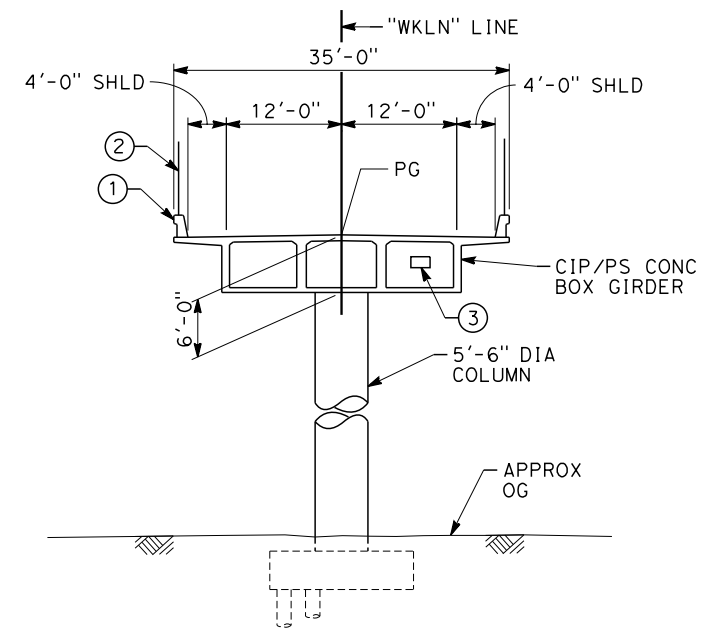
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SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



**SECTION OVER BNSF**



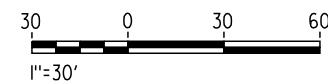
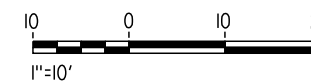
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/22/2013 10:06:38 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\bar59603\dms91107\FB-ST-2331-K2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

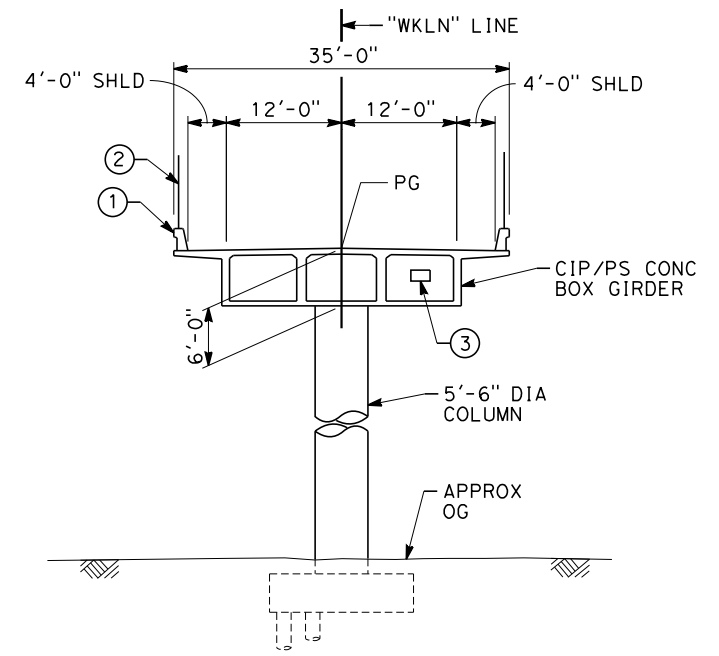
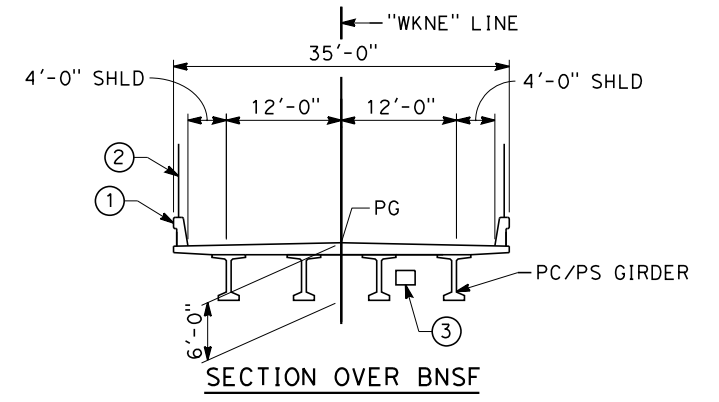
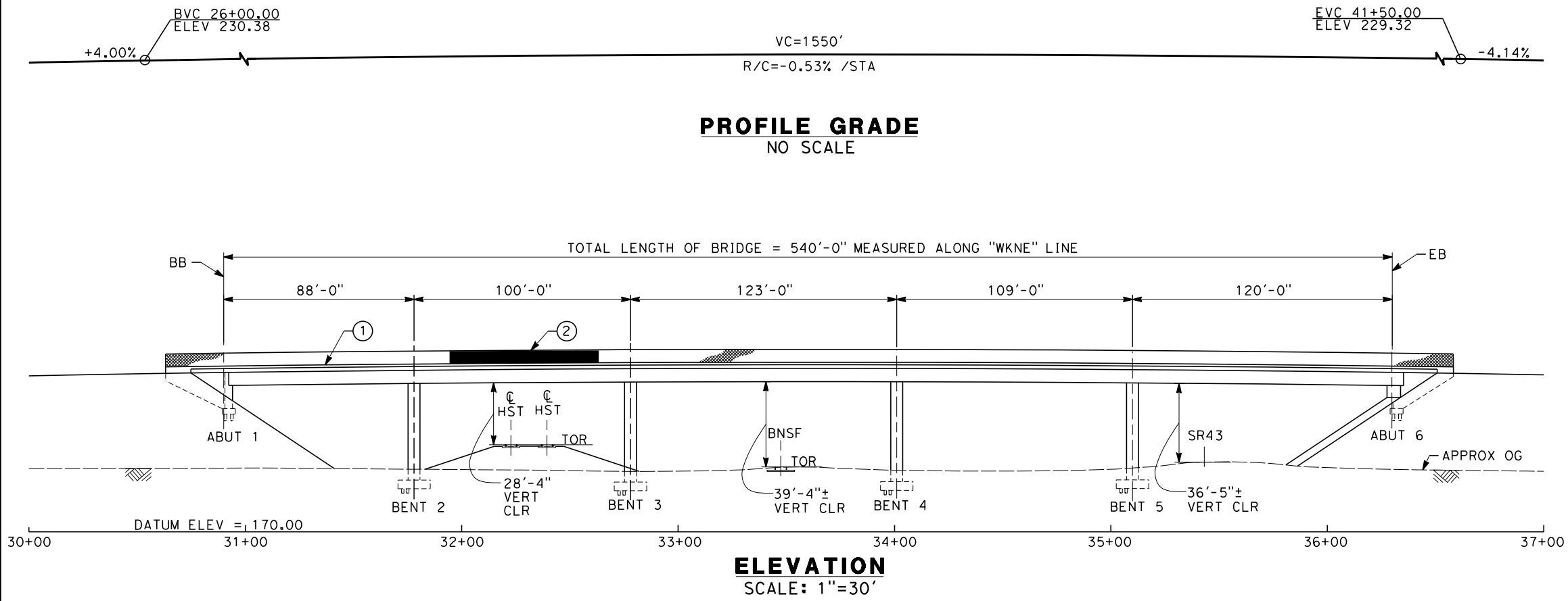
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DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K2  
OVERHEAD PLANNING STUDY  
LANSING AVE

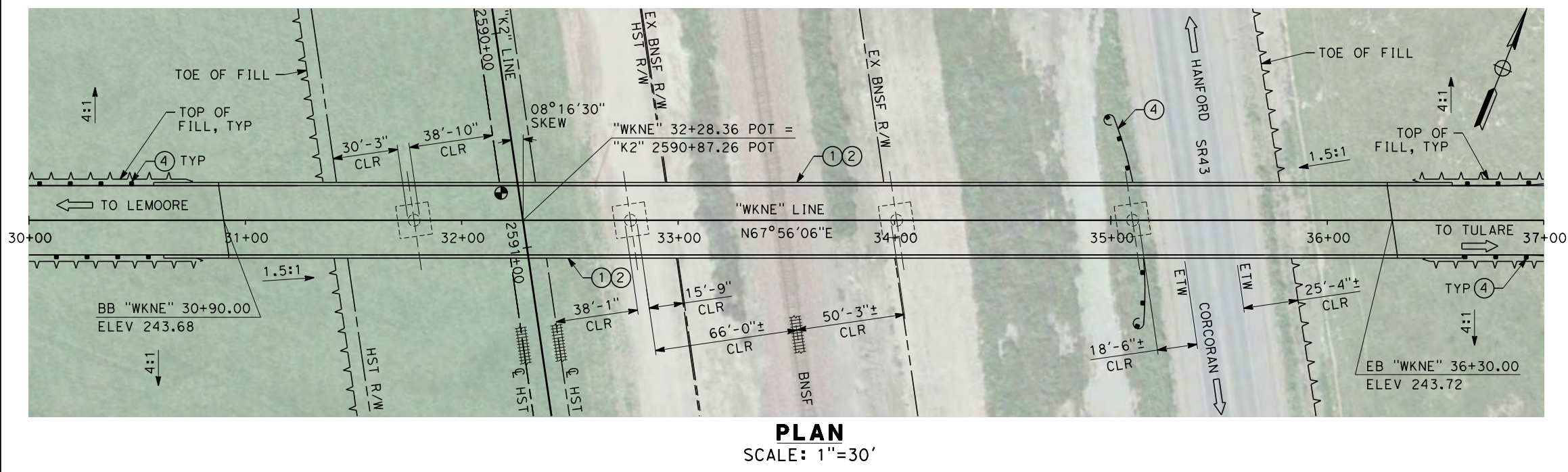
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DRAWING NO.  
ST2331  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 4

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- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASUREMENT OPENING
  - ④ MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**M. ANDREWS**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

KAWEAH SUBSECTION  
ALIGNMENT K2  
OVERHEAD PLANNING STUDY  
NEVADA AVE

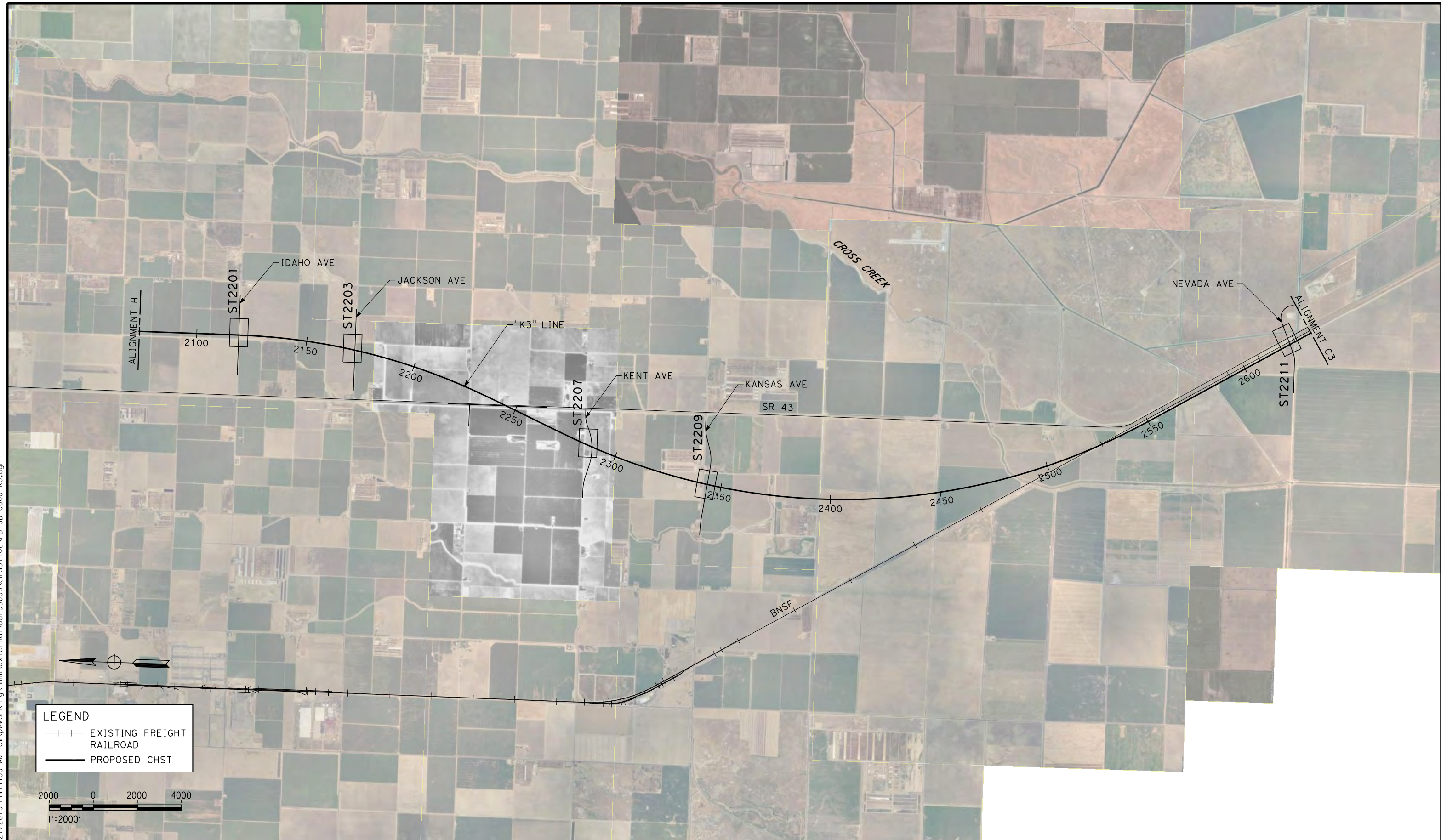
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HSR 06-0003

DRAWING NO.  
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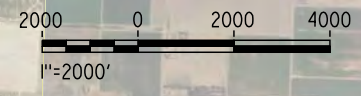
SCALE  
AS SHOWN

SHEET NO.  
4 OF 4

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**LEGEND**  
 --- EXISTING FREIGHT RAILROAD  
 — PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

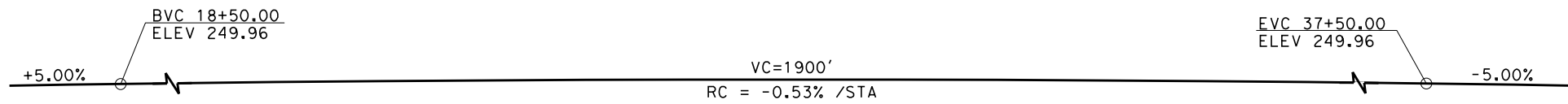
DESIGNED BY  
E. MORAN  
 DRAWN BY  
D. BARNHART  
 CHECKED BY  
M. ANDREWS  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

**RECORD SET 15%  
 DESIGN SUBMISSION**  
**NOT FOR  
 CONSTRUCTION**

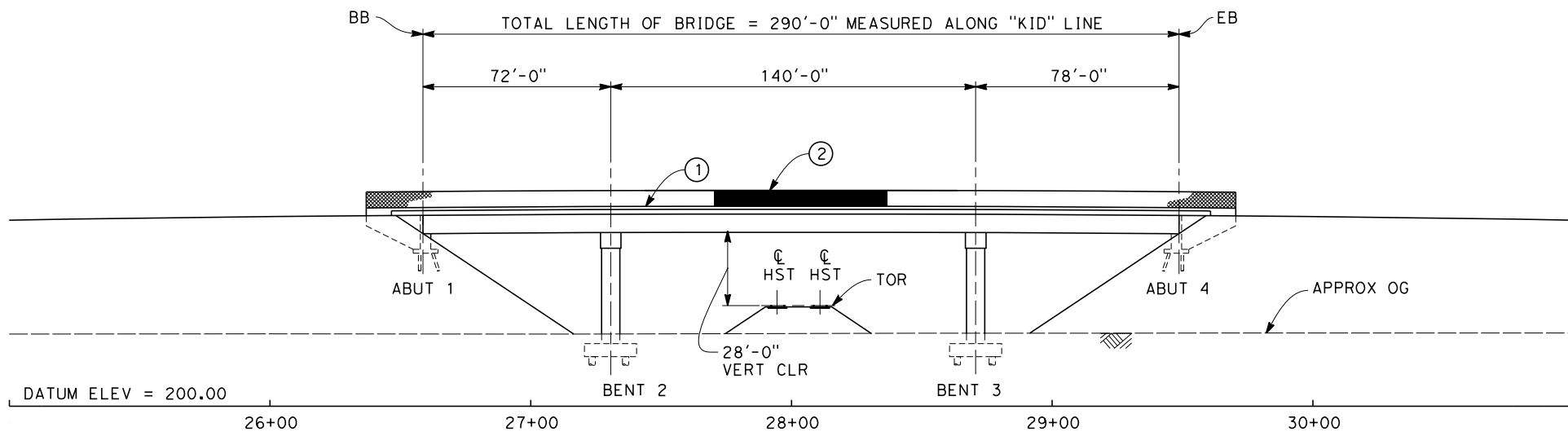


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 KAWEAH SUBSECTION  
 ALIGNMENT K3  
 OVERHEAD PLANNING STUDY  
 KEY MAP

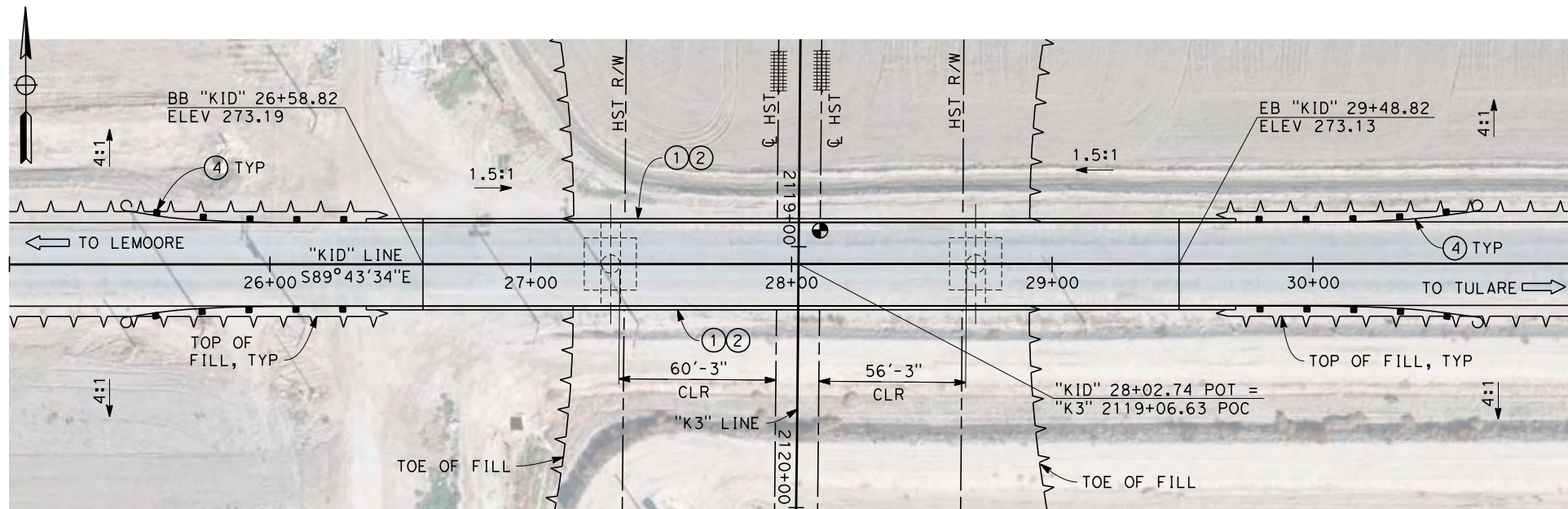
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AS SHOWN  
 SHEET NO.  
1 OF 6



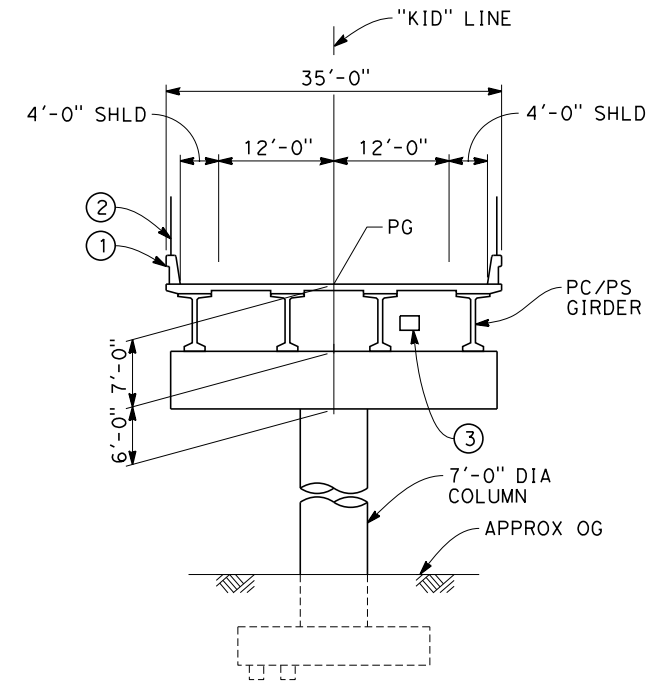
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**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



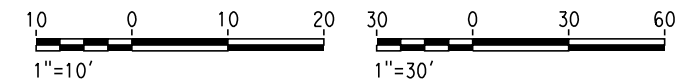
**TYPICAL SECTION**  
SCALE 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 10:32:16 AM c:\pwworking\hmm\external\pro39009\dms91108\FB-ST-2201-K3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

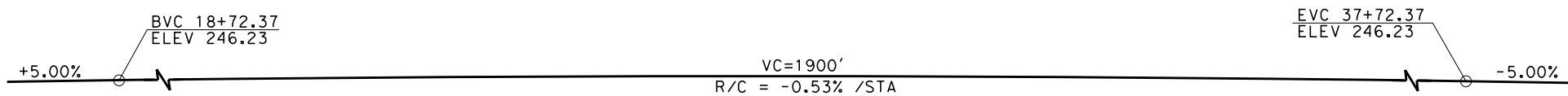
DESIGNED BY  
E. MORAN  
DRAWN BY  
D. BARNHART  
CHECKED BY  
M. ANDREWS  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

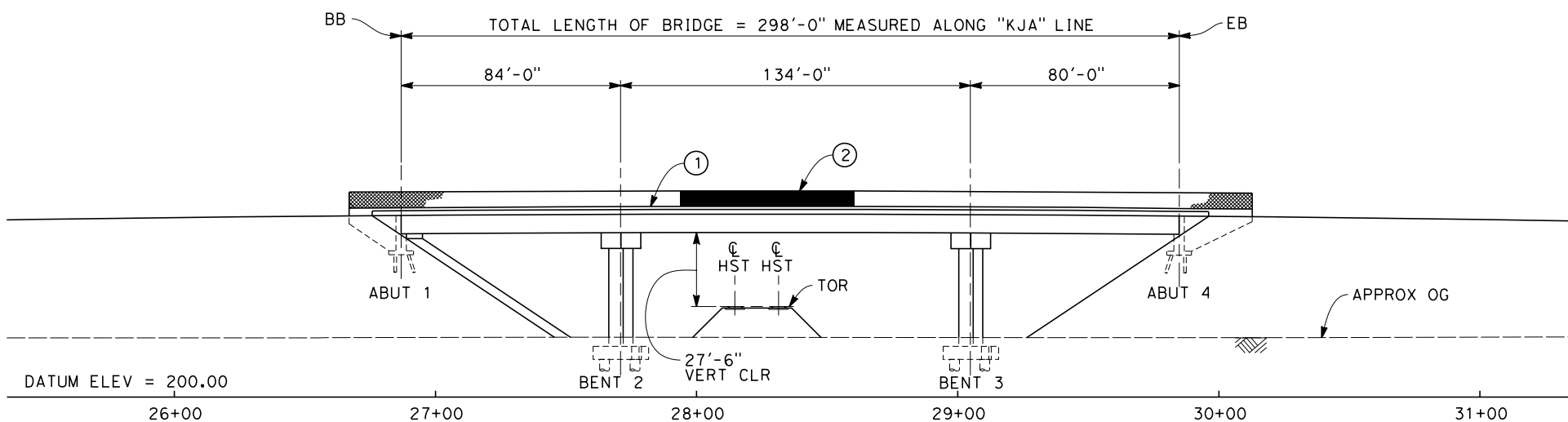


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K3  
OVERHEAD PLANNING STUDY  
IDAHO AVE

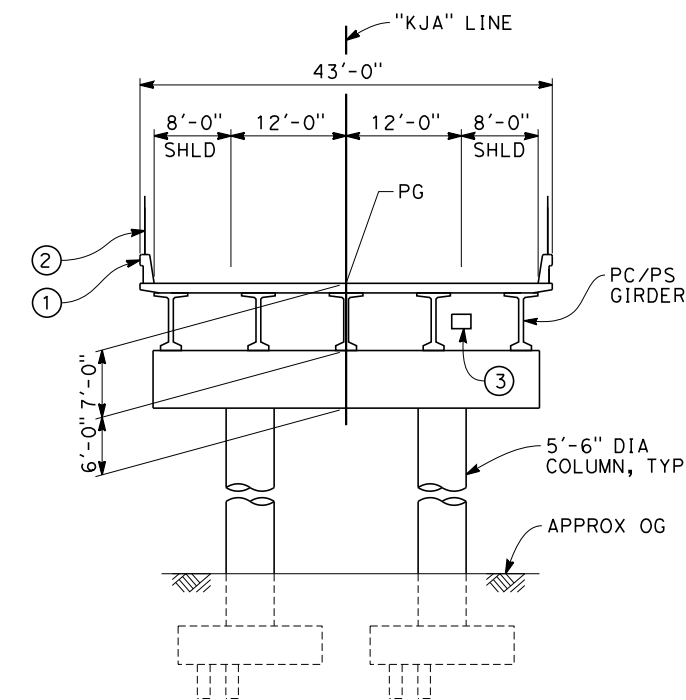
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ST2201  
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SHEET NO.  
2 OF 6



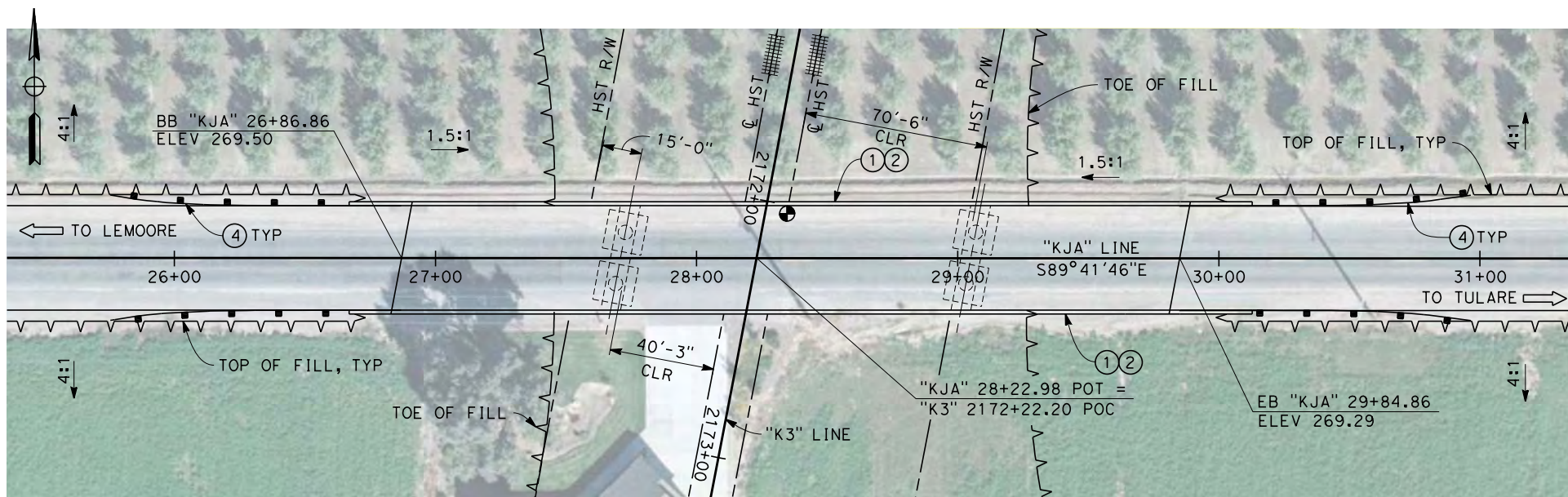
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NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



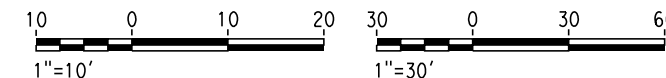
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/24/2013 9:59:05 AM c:\pwworking\hmm\external\bar50597\dms91108\FB-ST-2203-K3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

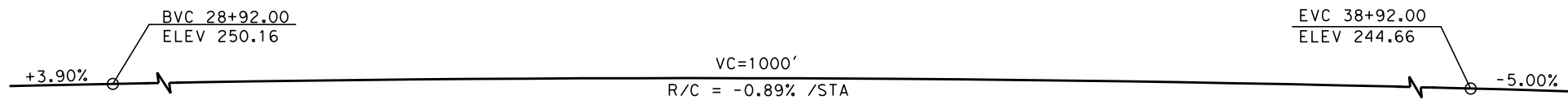
DESIGNED BY  
**E. MORAN**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDREWS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

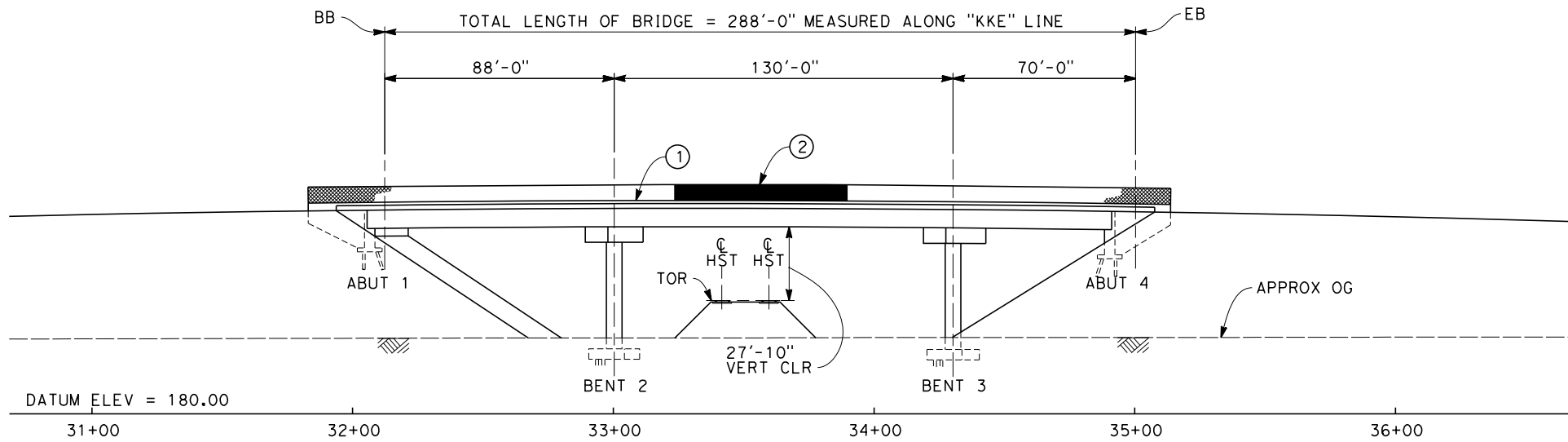


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K3  
OVERHEAD PLANNING STUDY  
JACKSON AVE

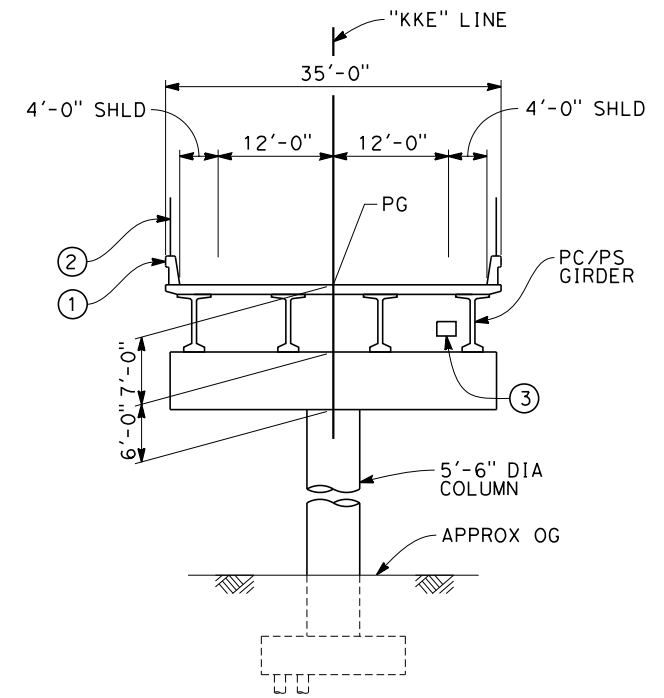
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DRAWING NO.  
ST2203  
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AS SHOWN  
SHEET NO.  
3 OF 6



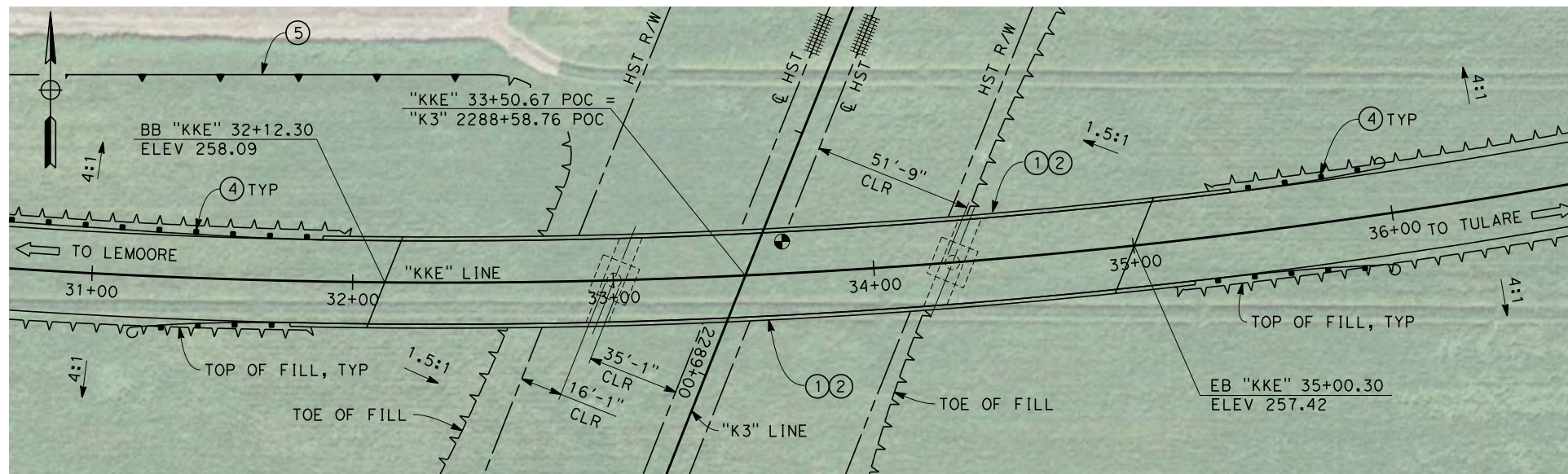
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



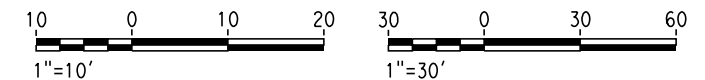
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL



12/24/2013 10:09:08 AM c:\pwworking\hmm\external\bar50597\dms91108\FB-ST-2207-K3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

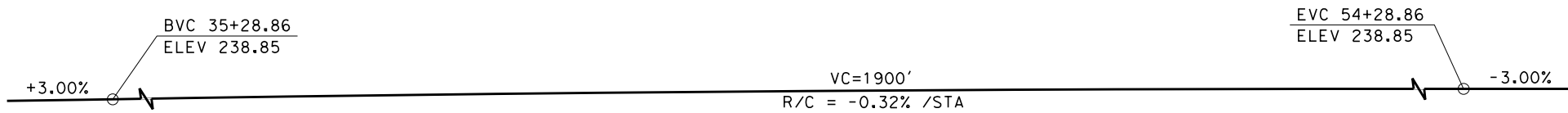
DESIGNED BY  
**E. MORAN**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**M. ANDRWEERS**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

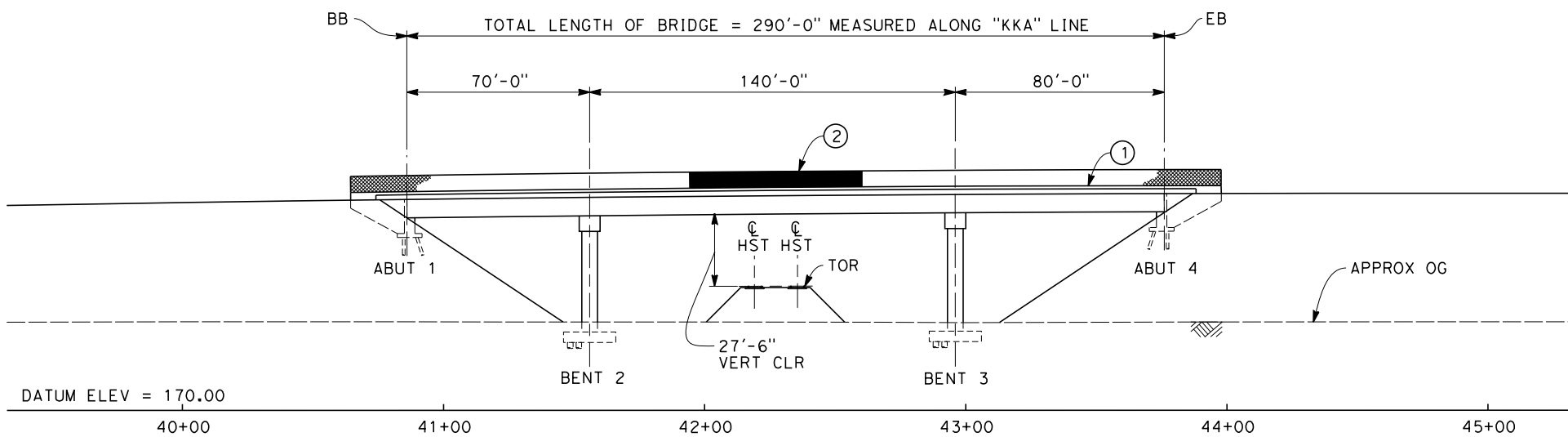


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K3  
OVERHEAD PLANNING STUDY  
KENT AVE

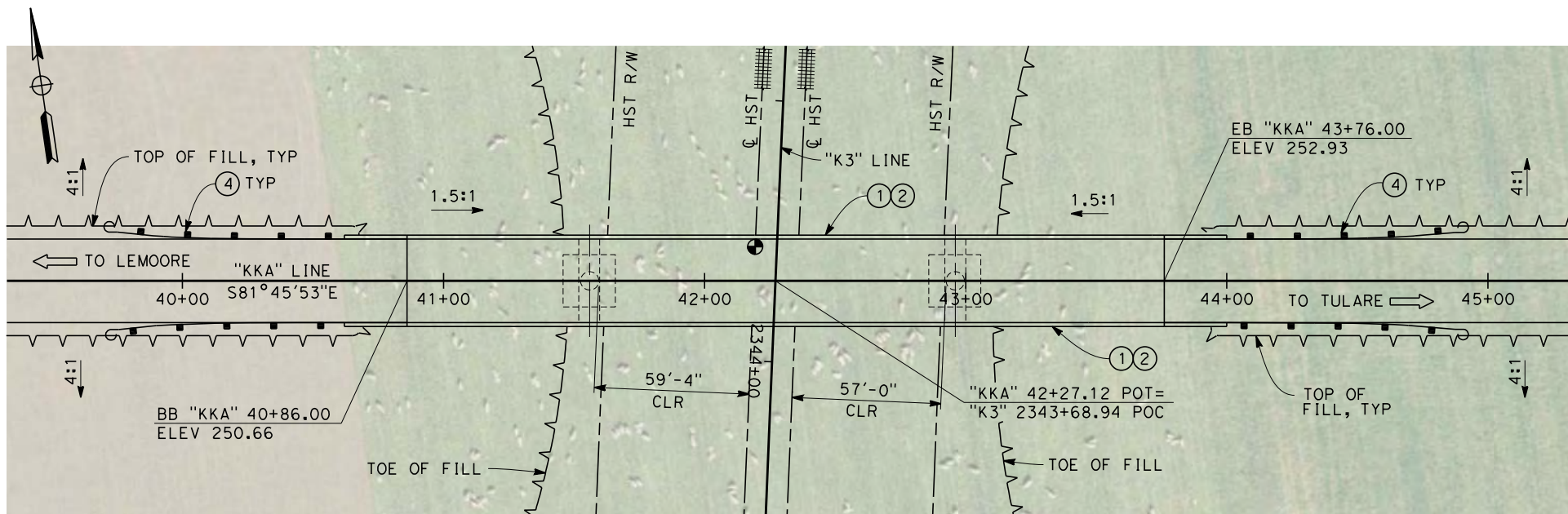
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ST2207  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 6



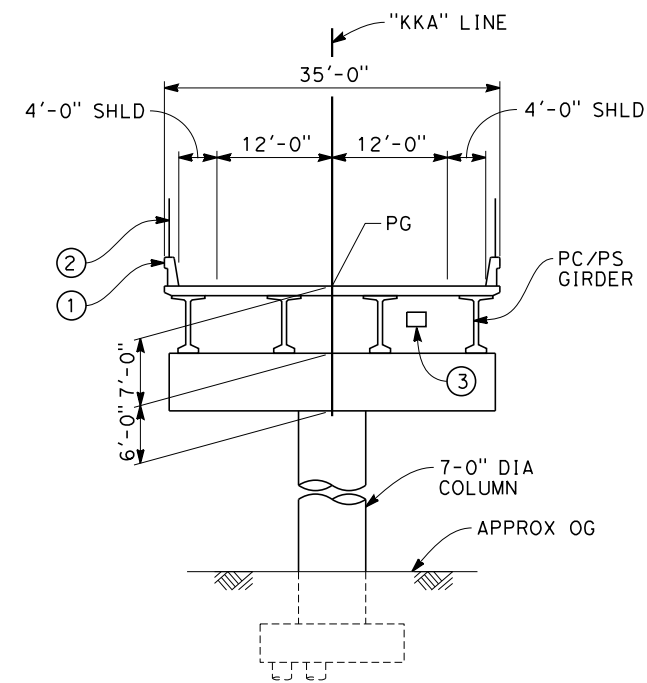
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



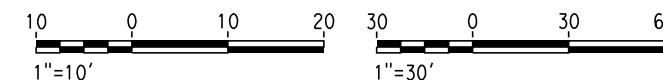
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/24/2013 10:23:23 AM c:\pwworking\hmm\external\bar50597\dms91108\FB-ST-2209-K3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. MORAN
DRAWN BY D. BARNHART
CHECKED BY M. ANDREWS
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

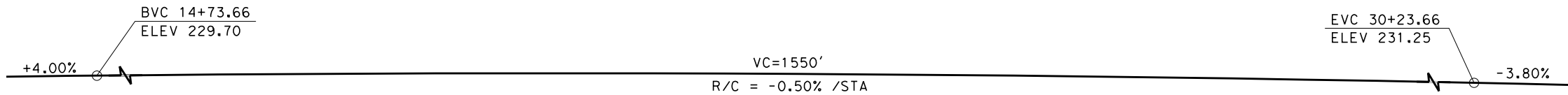
**NOT FOR  
CONSTRUCTION**



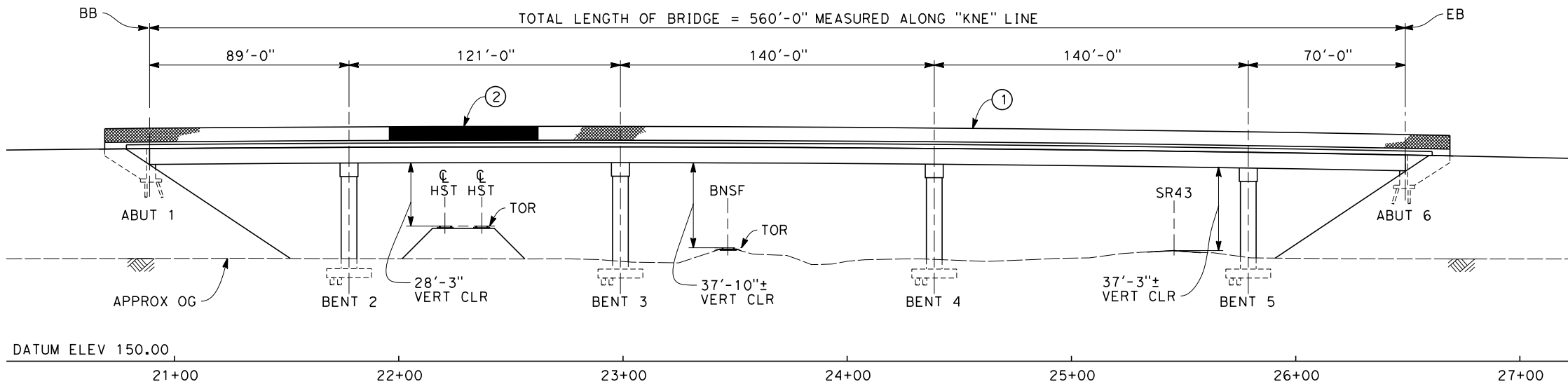
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION  
ALIGNMENT K3  
OVERHEAD PLANNING STUDY  
KANSAS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. ST2209
SCALE AS SHOWN
SHEET NO. 5 OF 6

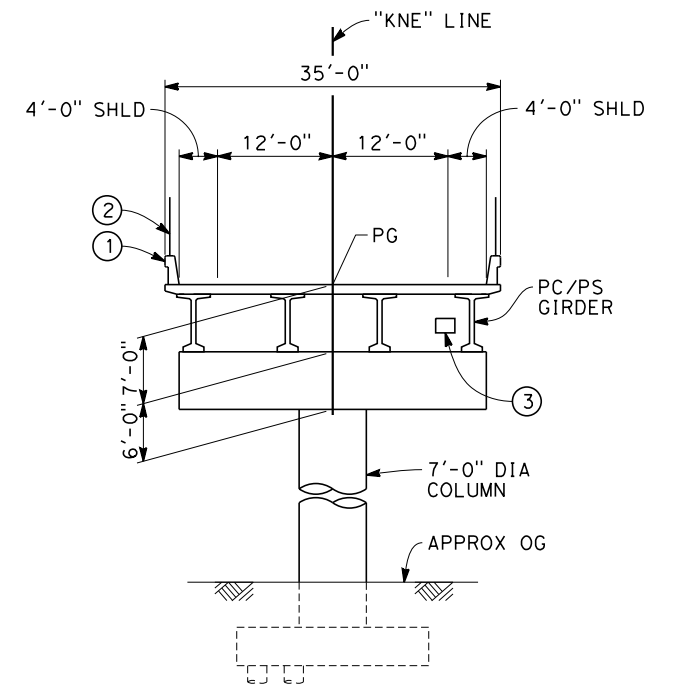


**PROFILE GRADE**  
NO SCALE

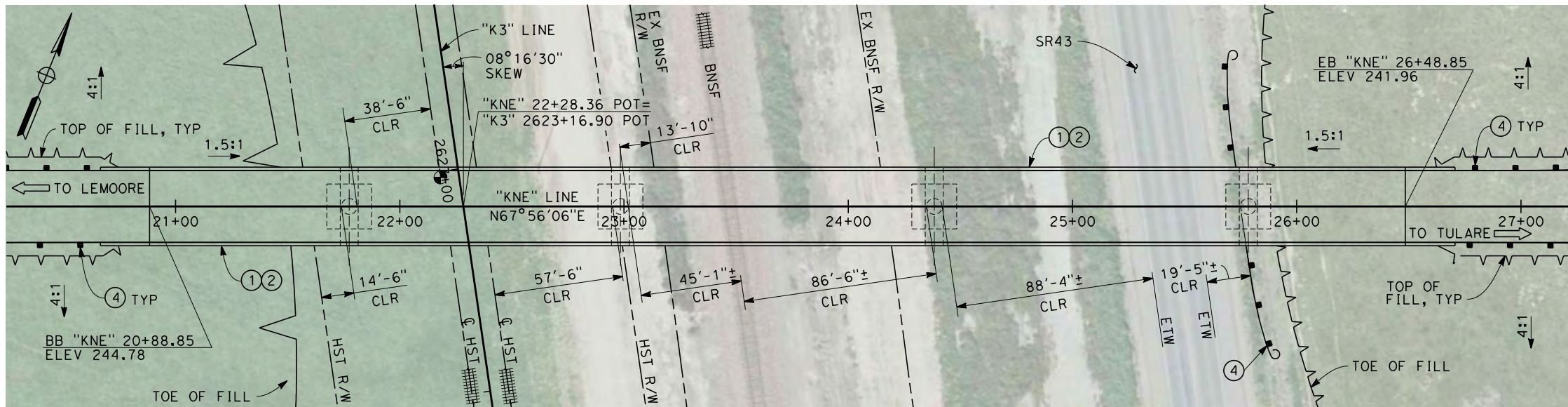


DATUM ELEV 150.00

**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



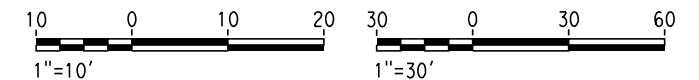
**PLAN**  
SCALE: 1"=30'

**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 8:37:20 AM c:\pwworking\hmm\external\pro39009\dms91108\FB-ST-2211-K3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. MORAN  
DRAWN BY  
D. BARNHART  
CHECKED BY  
M. ANDREWS  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

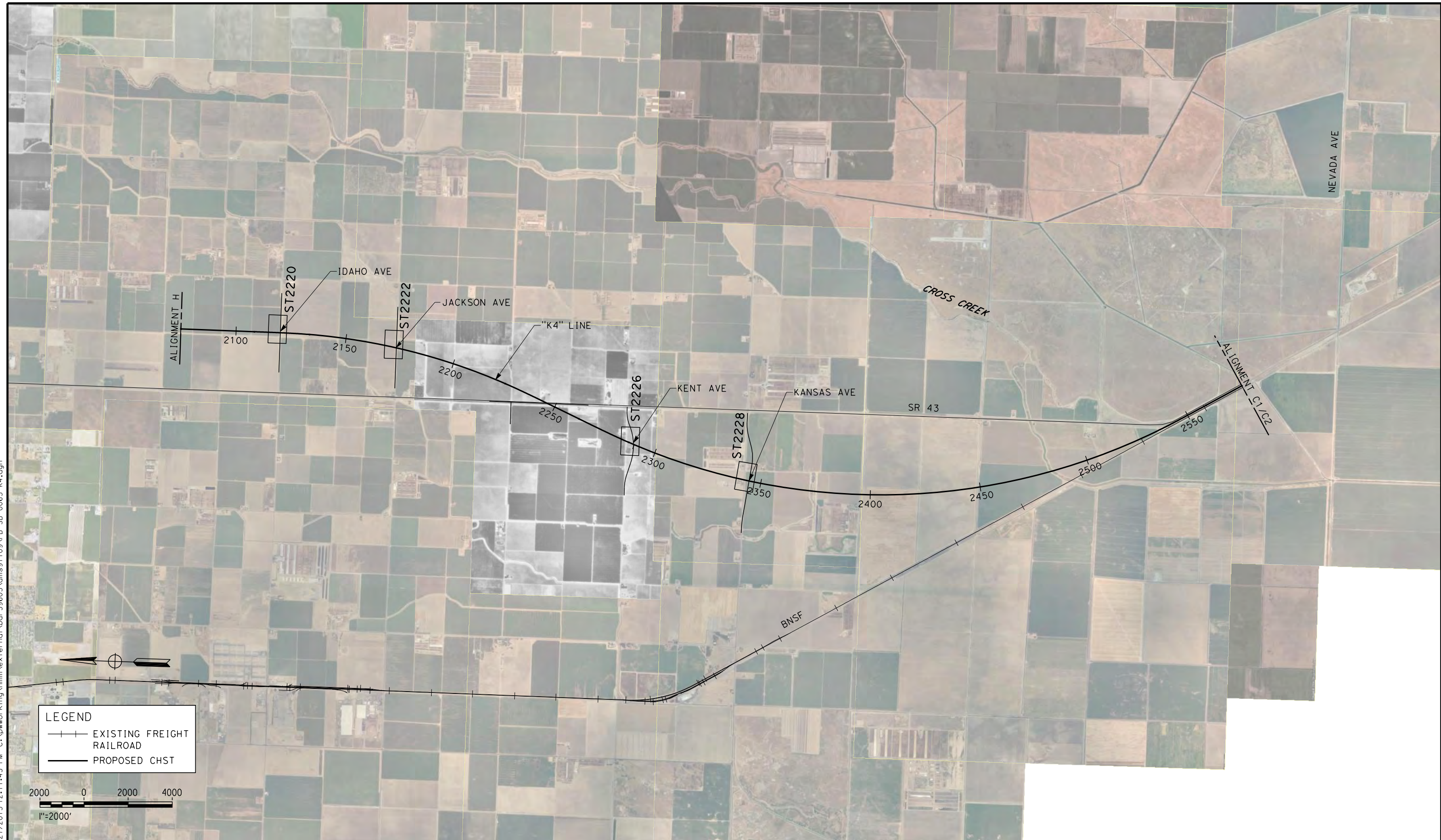


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K3  
OVERHEAD PLANNING STUDY  
NEVADA AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2211  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 6

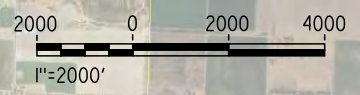


12/27/2013 12:11:43 PM c:\pwworking\hmm\external\bar59603\dms91109\FB-SB-0065-K4.dgn



**LEGEND**

- EXISTING FREIGHT RAILROAD
- PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
D. BARNHART

CHECKED BY  
M. AMINI

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

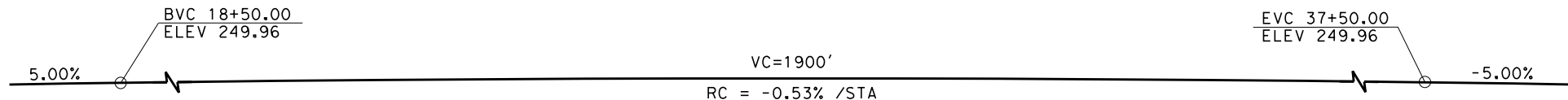
KAWEAH SUBSECTION  
ALIGNMENT K4  
OVERHEAD PLANNING STUDY  
KEY MAP

CONTRACT NO.  
HSR 06-0003

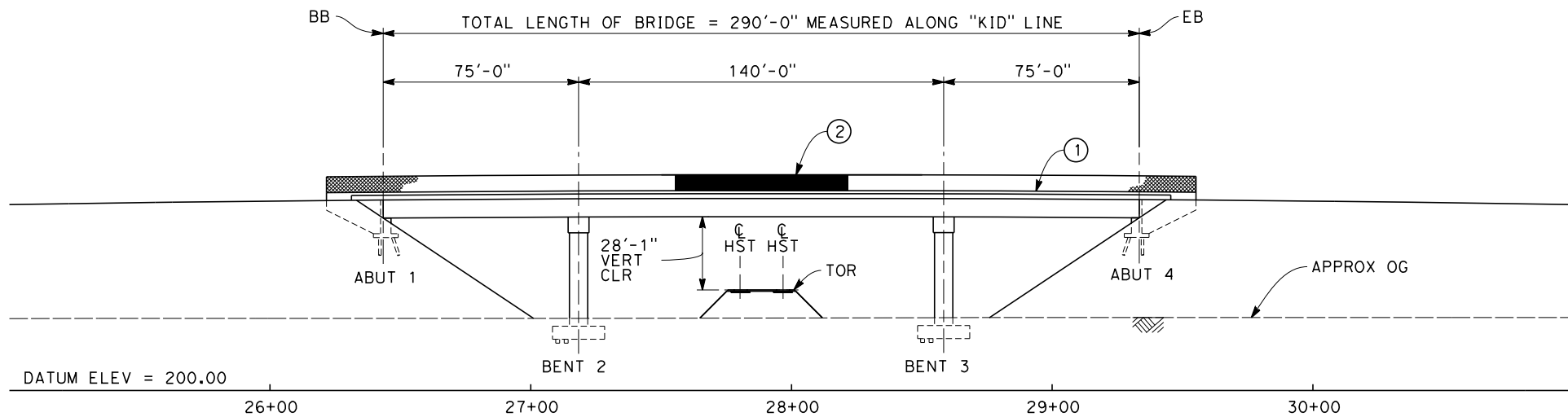
DRAWING NO.  
SB0065

SCALE  
AS SHOWN

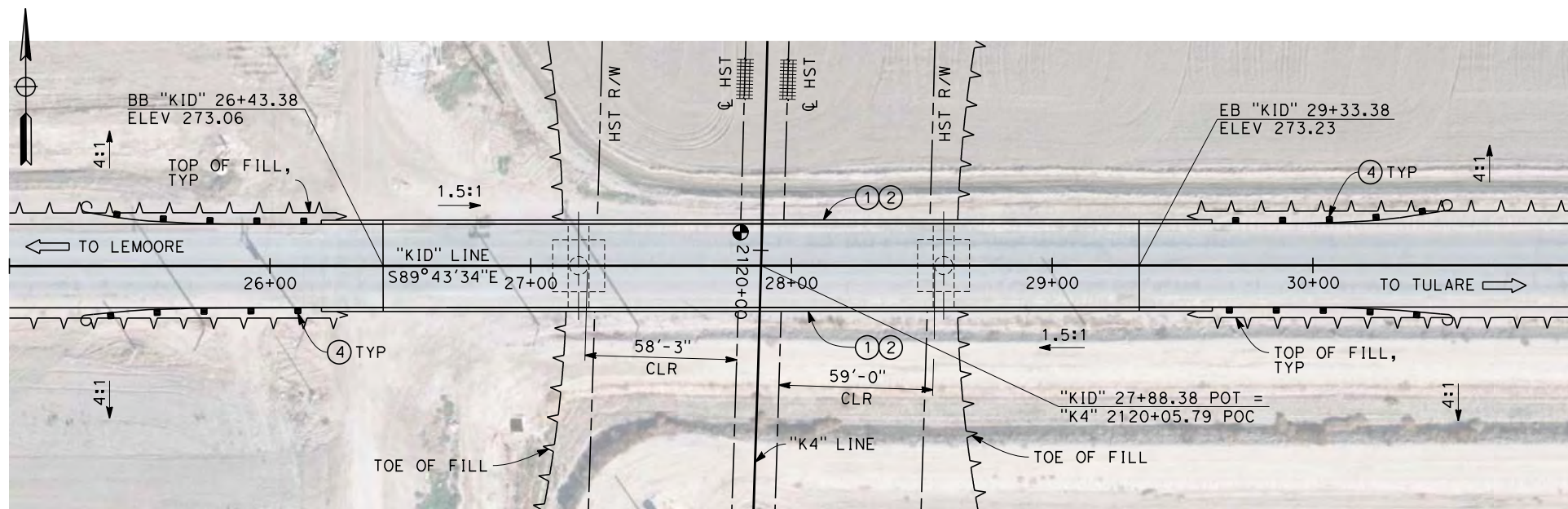
SHEET NO.  
1 OF 5



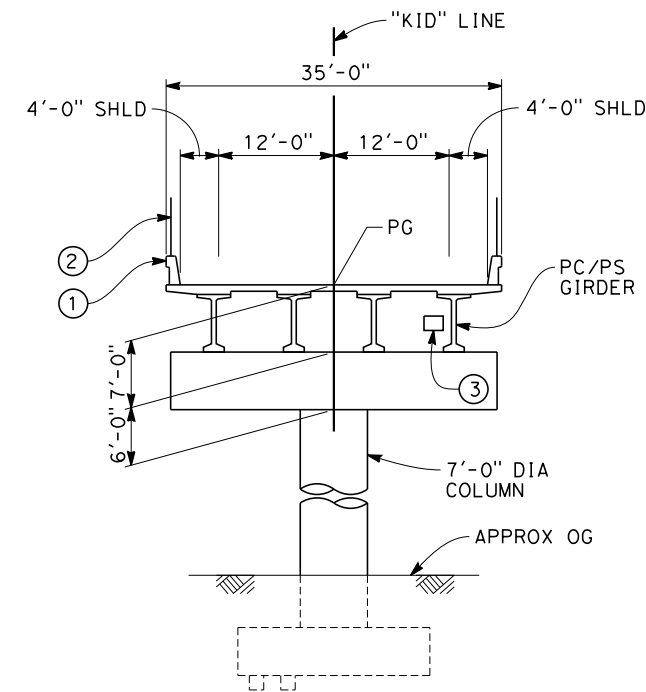
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NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



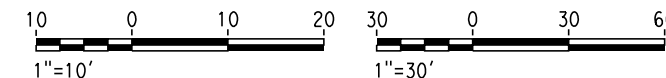
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/26/2013 1:02:154 PM c:\pwworking\hmm\external\pre45072\dms91109\FB-ST-2220-K4.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

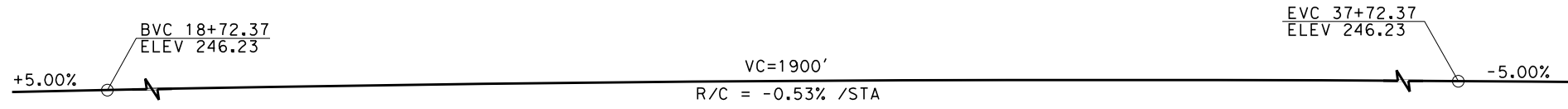
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
M. AMINI  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

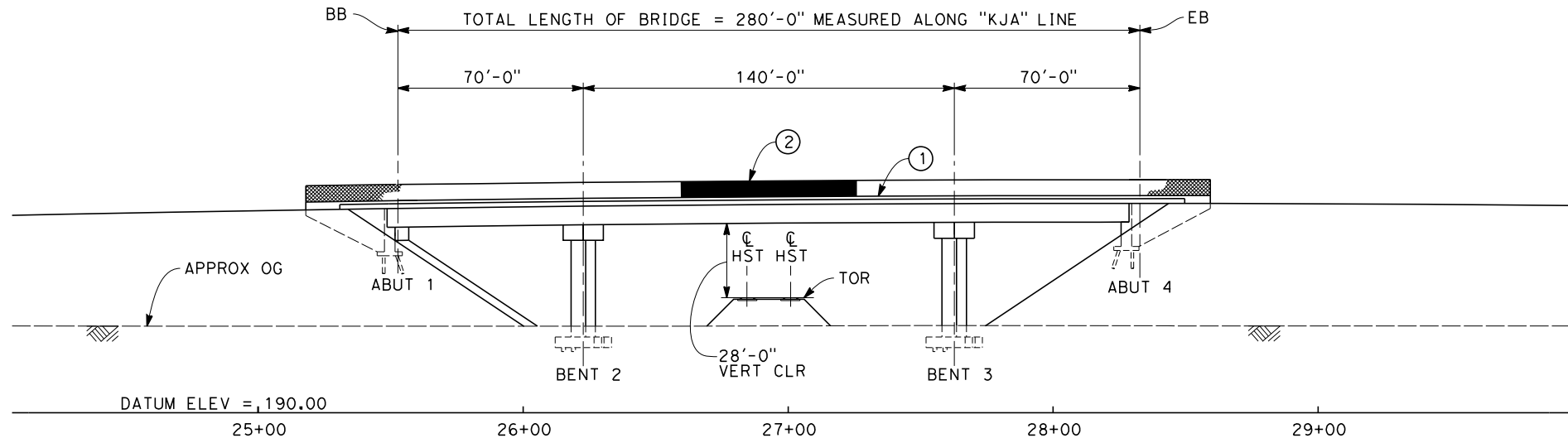


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K4  
OVERHEAD PLANNING STUDY  
IDAHO AVE

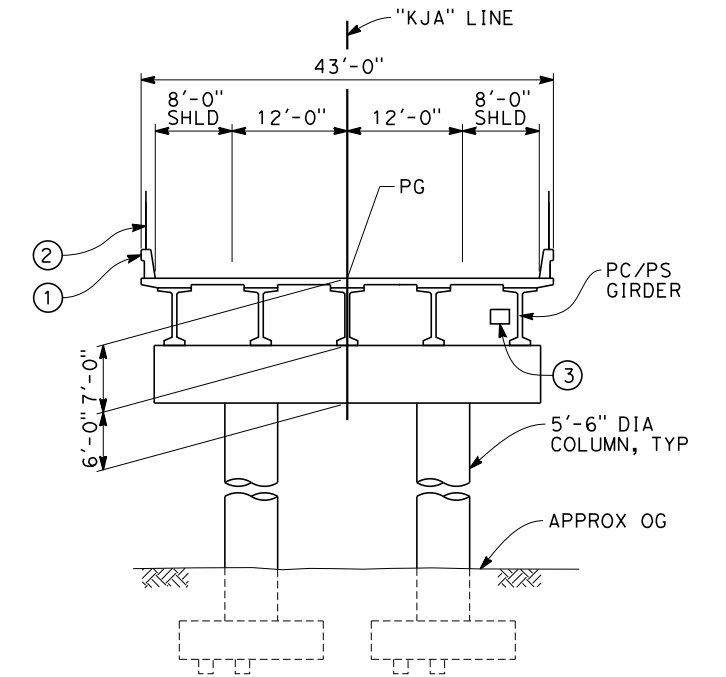
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2220  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 5



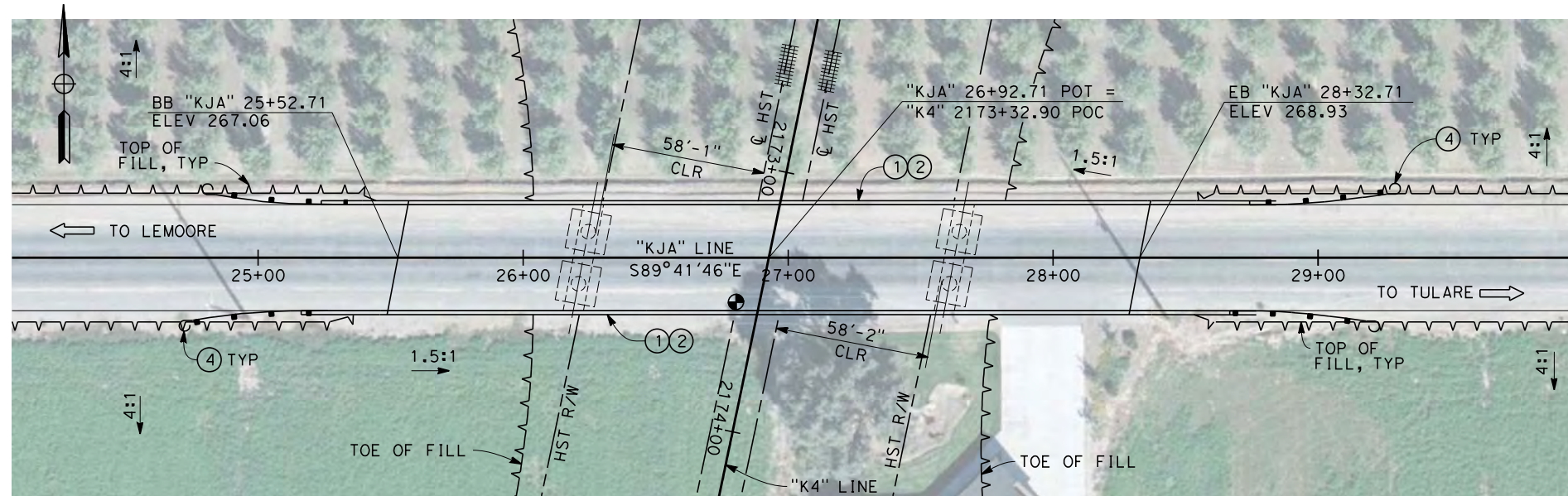
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



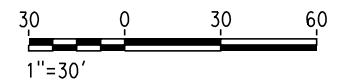
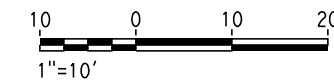
**PLAN**  
SCALE: 1"=30'

**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AIR FENCE
- ② AIR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASUREMENT OPENING
- ④ MBGR



12/24/2013 11:52:58 AM c:\pwworking\hmm\external\pre45072\dms91109\FB-ST-2222-K4.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

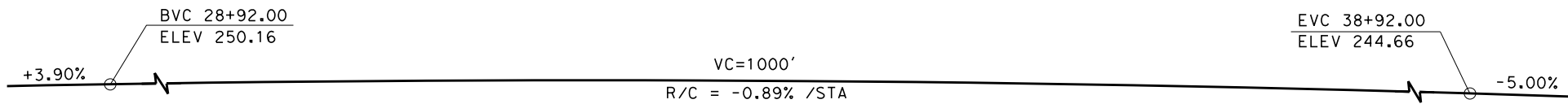
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
M. AMINI  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

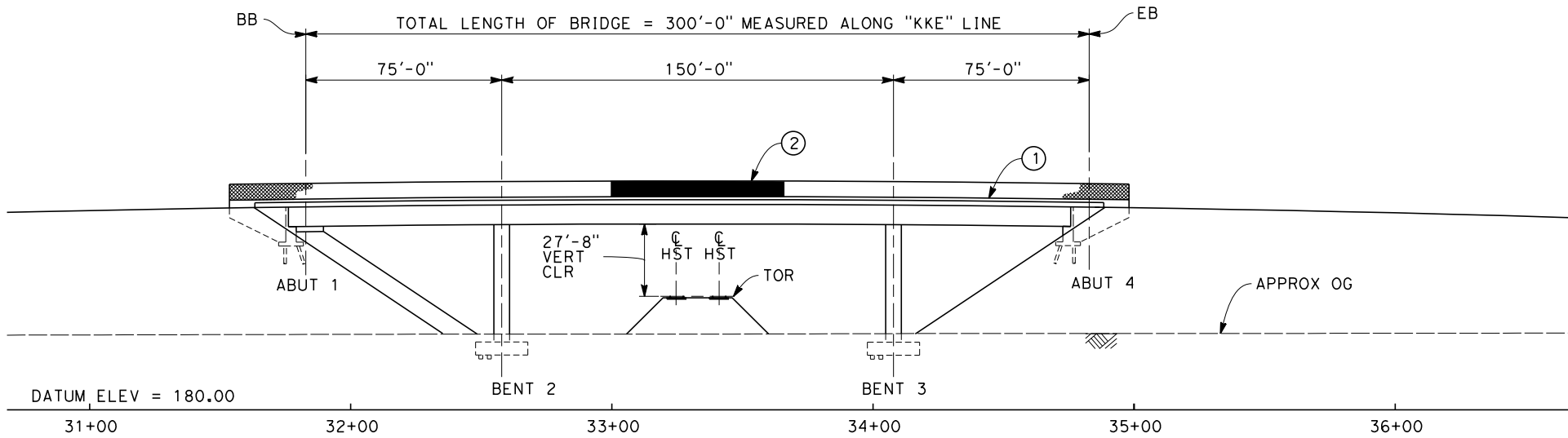


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K4  
OVERHEAD PLANNING STUDY  
JACKSON AVE

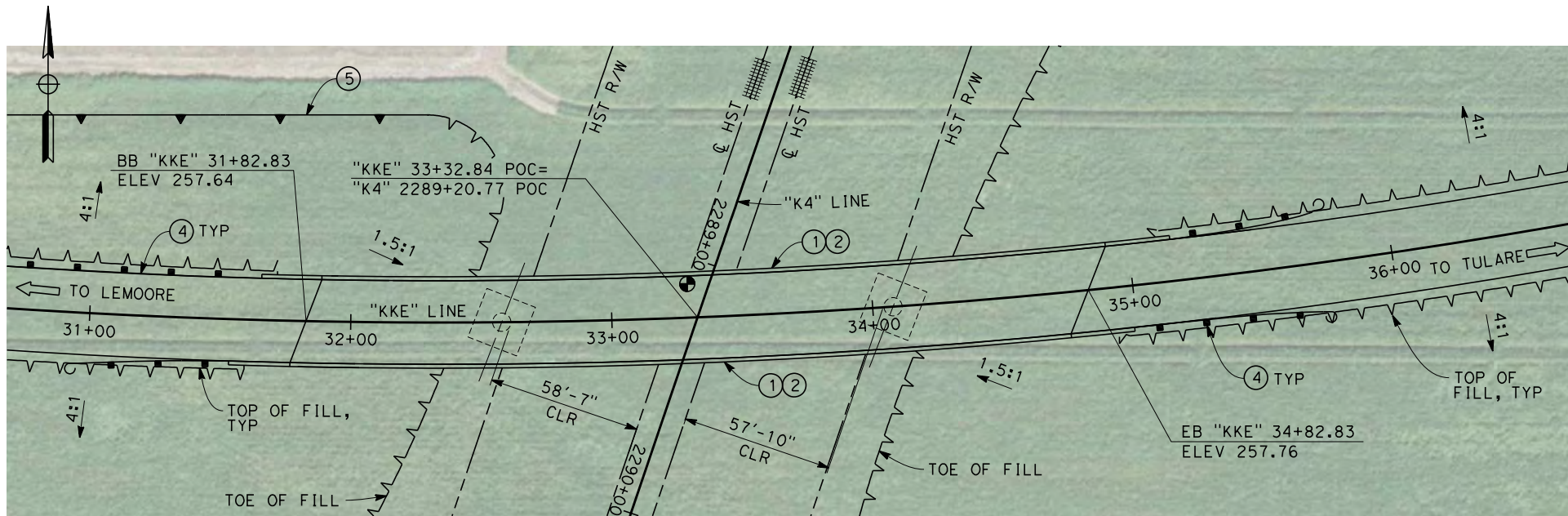
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2222  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 5



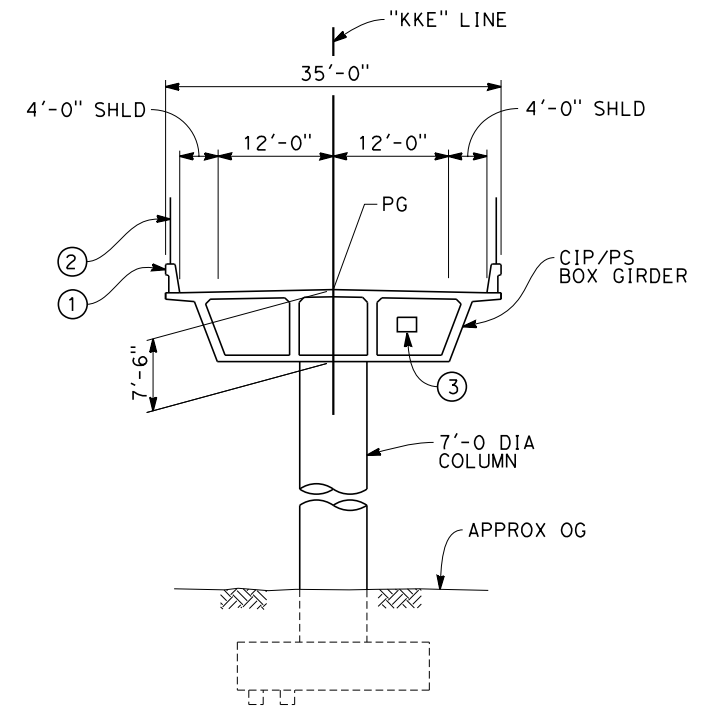
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



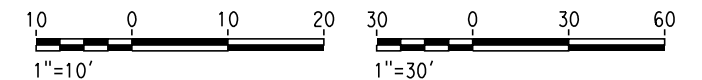
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL



12/26/2013 8:18:59 AM c:\pwworking\hmm\external\pre45072\dms91109\FB-ST-2226-K4.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

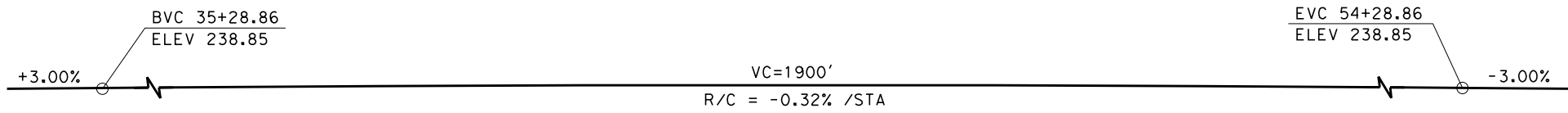
DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
M. AMINI  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

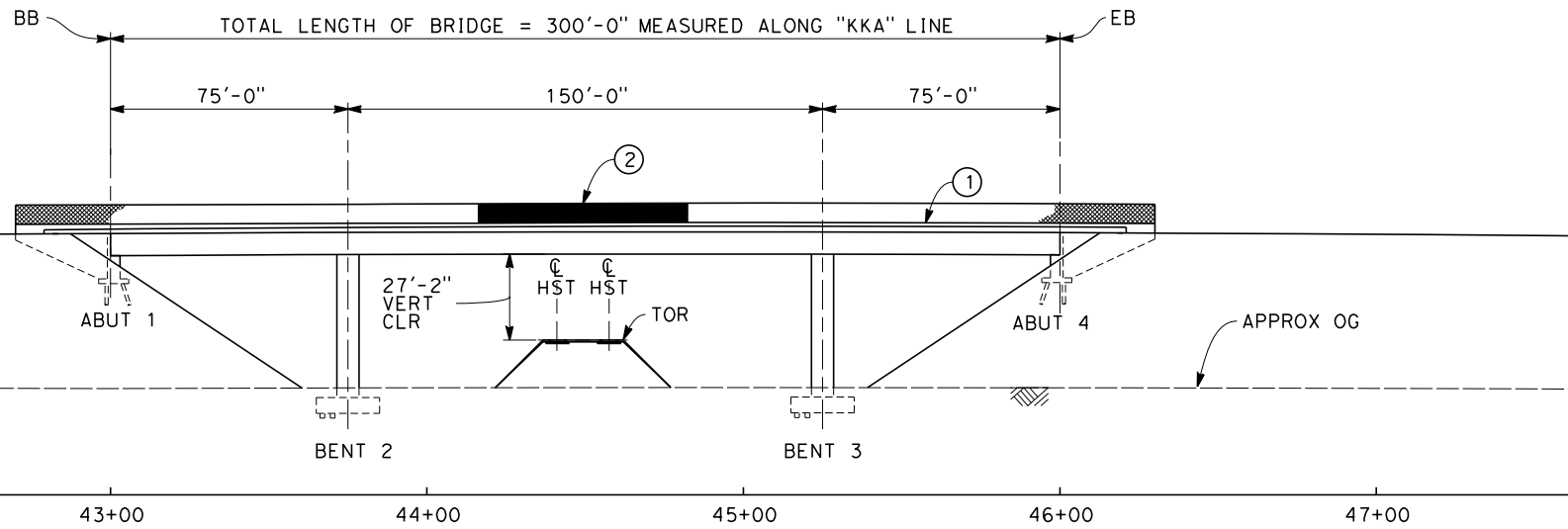


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K4  
OVERHEAD PLANNING STUDY  
KENT AVE

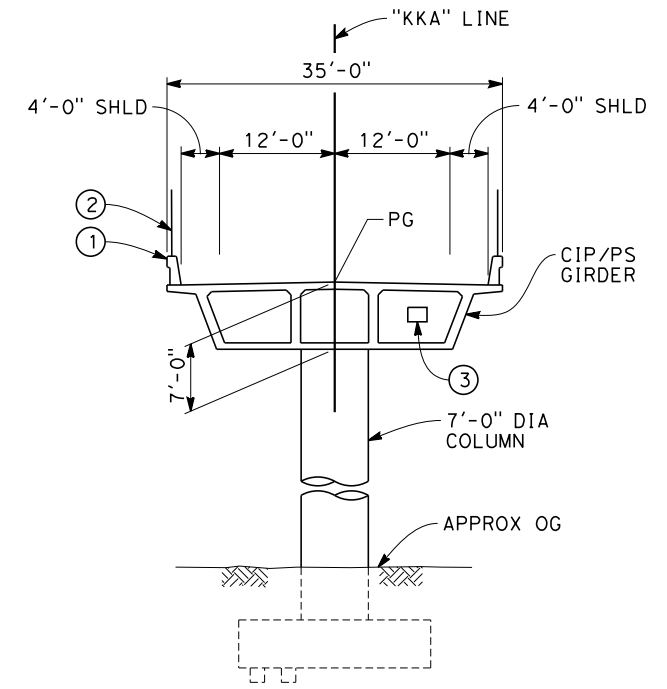
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2226  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 5



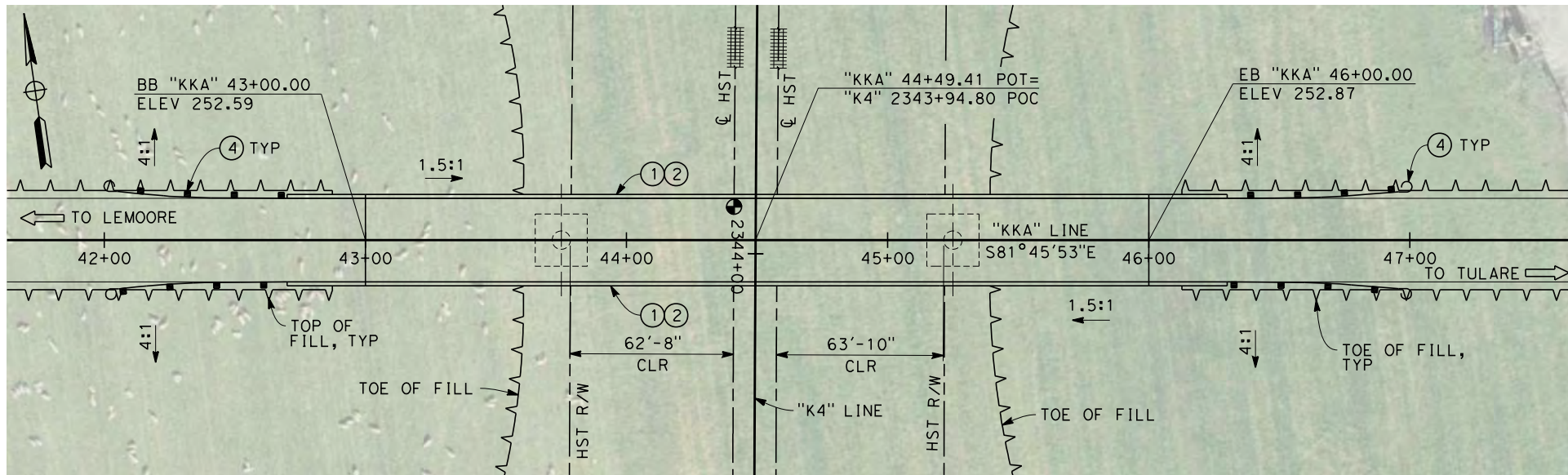
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



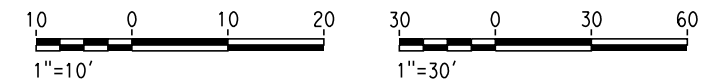
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/26/2013 1:15:49 PM c:\pwworking\hmm\external\pre45072\dms91109\FB-ST-2228-K4.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
M. AMINI  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



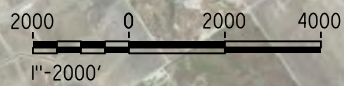
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K4  
OVERHEAD PLANNING STUDY  
KANSAS AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2228  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 5

12/27/2013 12:18:45 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \bar59603\dms87607\FB-SB-0066-K5.dgn



**LEGEND**  
 ---+---+---+ EXISTING FREIGHT RAILROAD  
 ————— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

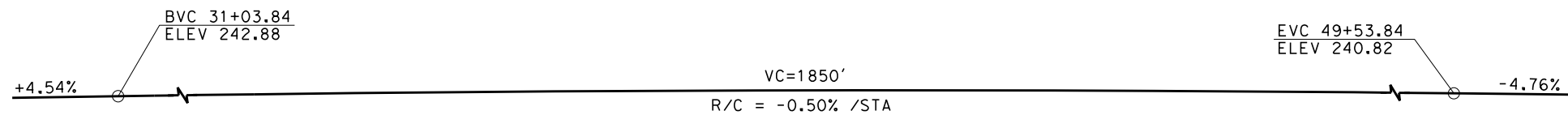
DESIGNED BY  
**E. MORAN**  
 DRAWN BY  
**D. BARNHART**  
 CHECKED BY  
**M. AMINI**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

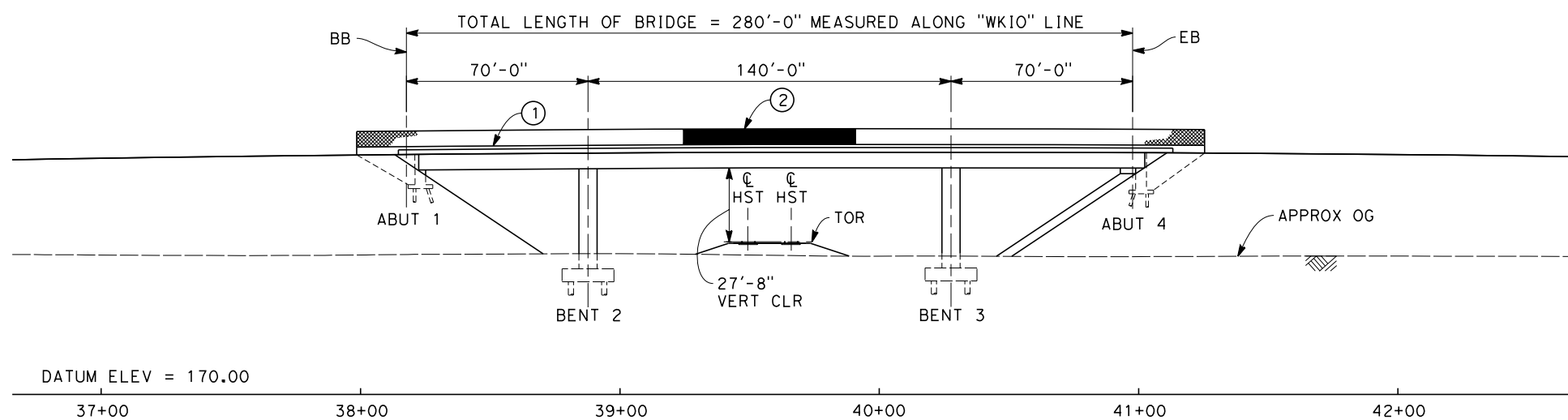


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 KAWEAH SUBSECTION  
 ALIGNMENT K5  
 OVERHEAD PLANNING STUDY  
 KEY MAP

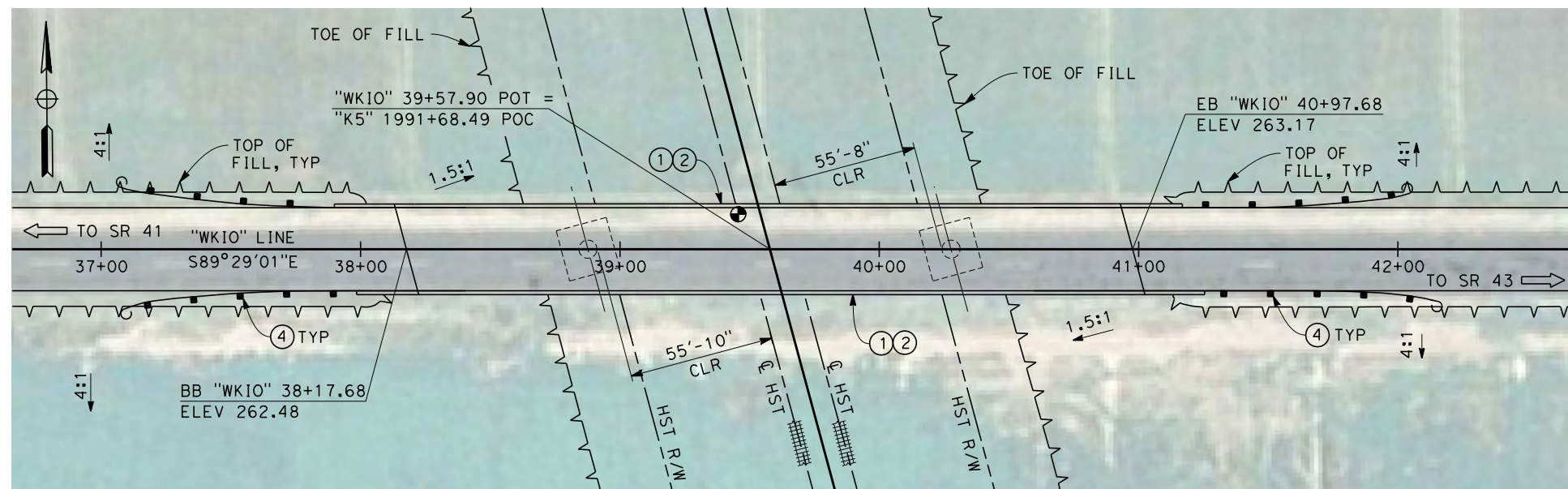
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 DRAWING NO.  
SB0066  
 SCALE  
AS SHOWN  
 SHEET NO.  
1 OF 7



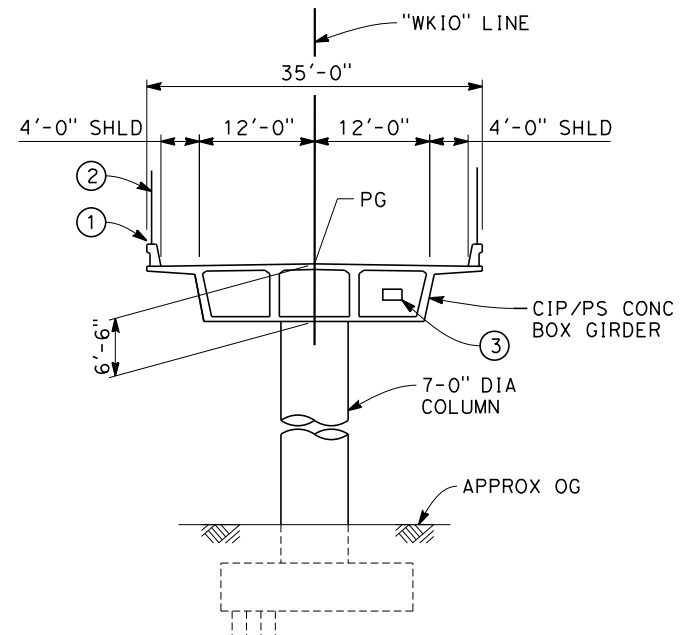
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



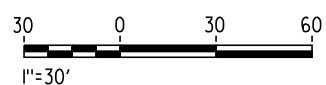
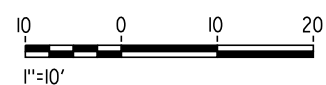
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASUREMENT OPENING
- ④ MBGR



12/26/2013 10:45:01 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\pre45072\dms87607\FB-ST-2250-K5.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

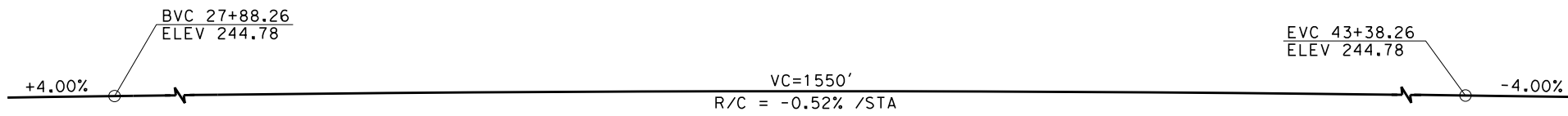
DESIGNED BY  
**E. MORAN**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

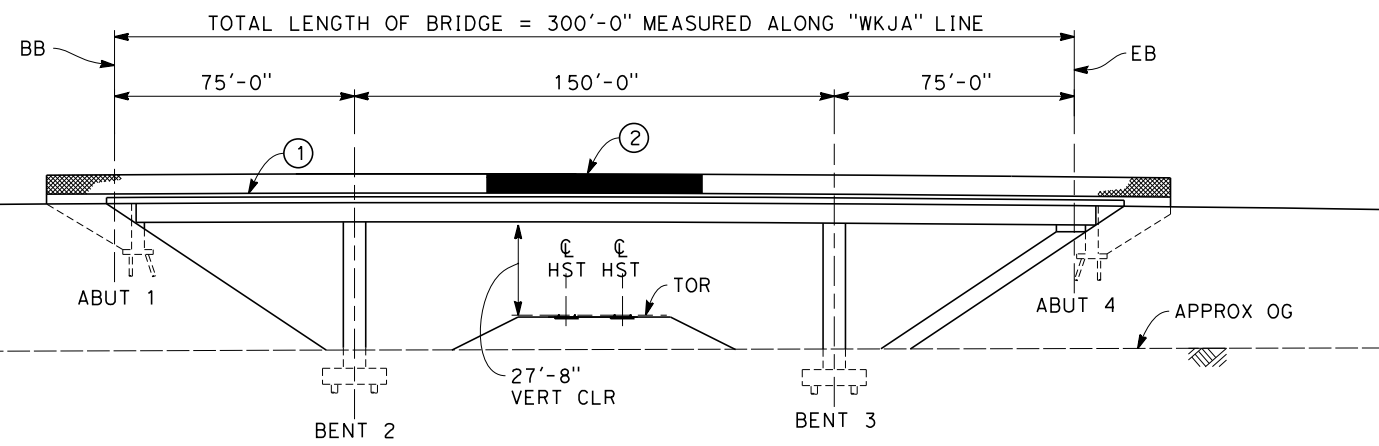


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K5  
OVERHEAD PLANNING STUDY  
IONA AVE

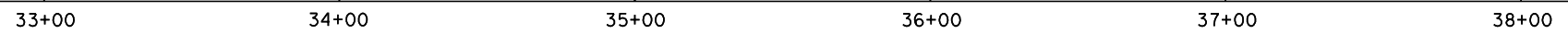
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2250  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 7



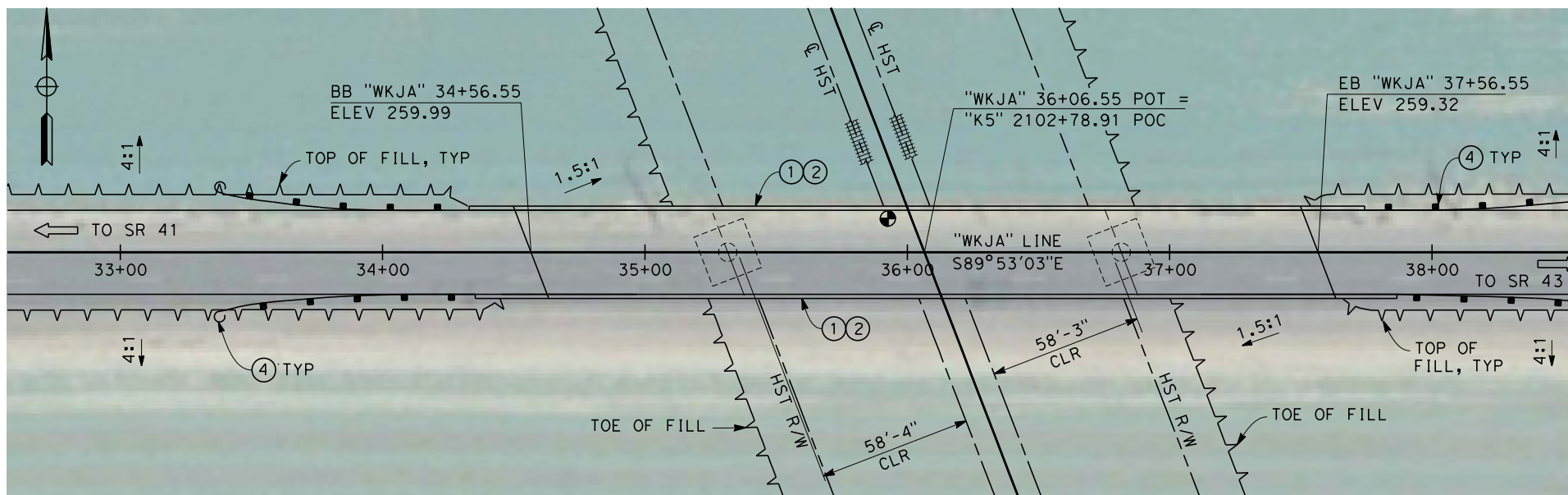
**PROFILE GRADE**  
NO SCALE



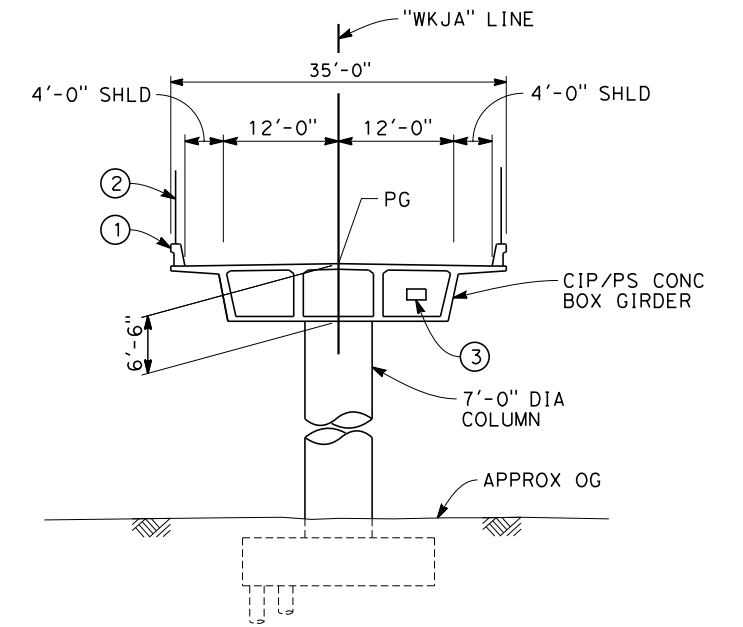
DATUM ELEV = 160.00



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



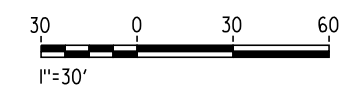
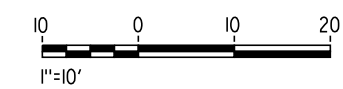
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 10:35:26 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt: \\pwworking\hmm\external\pro39009\dms87607\FB-ST-2251-K5.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. MORAN**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

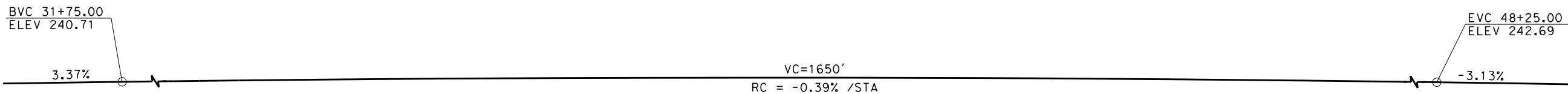
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K5  
OVERHEAD PLANNING STUDY  
JACKSON AVE

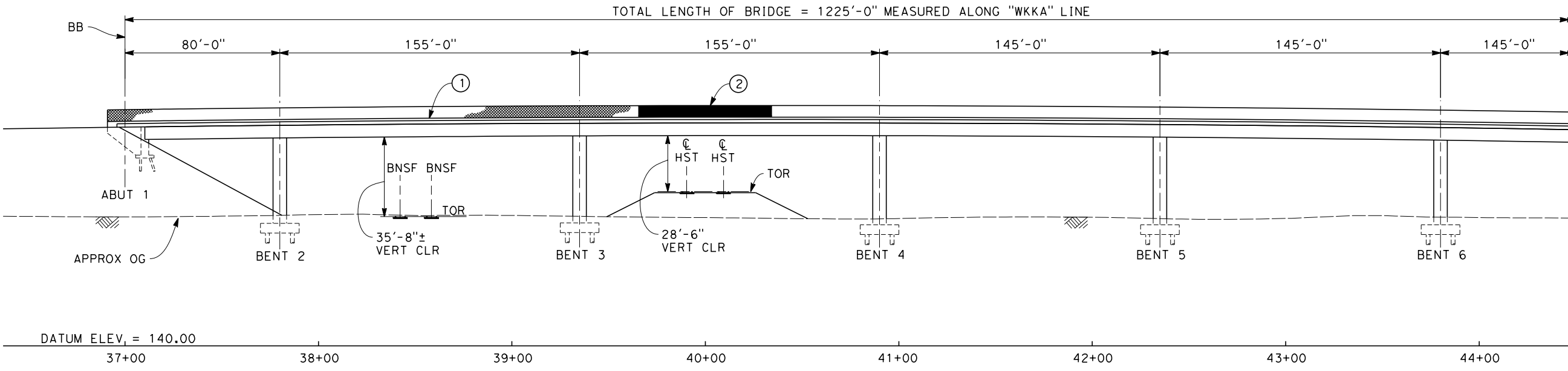
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2251  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 7



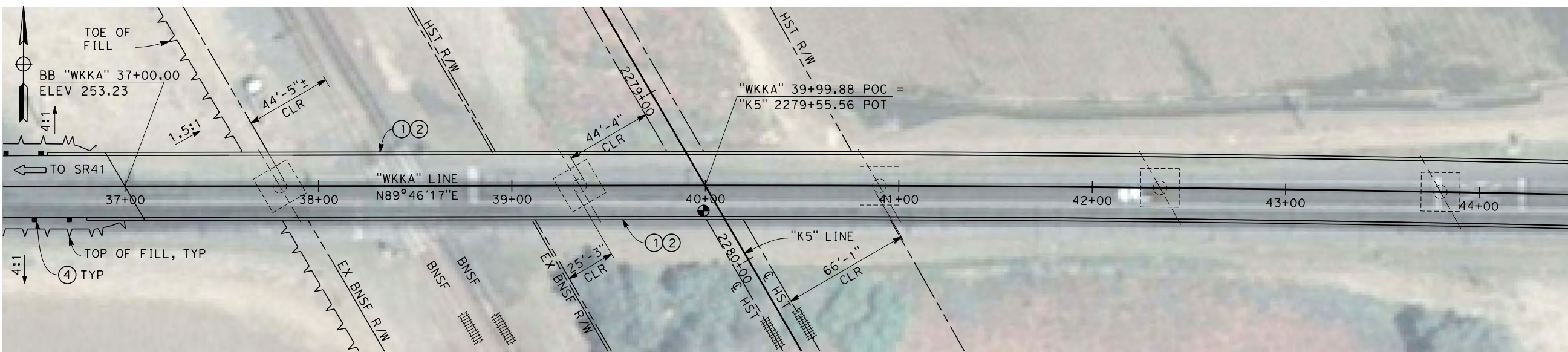


NOTE:  
FOR NOTES AND LEGEND  
SEE SHEET ST2253

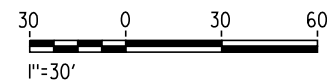
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NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



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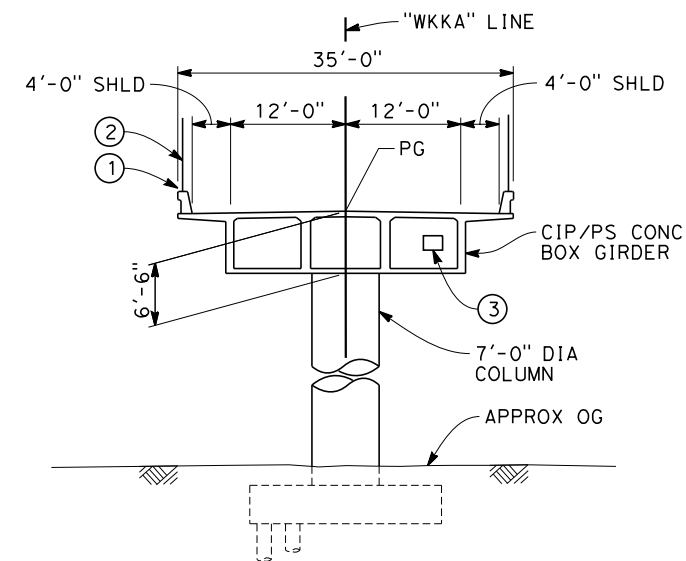
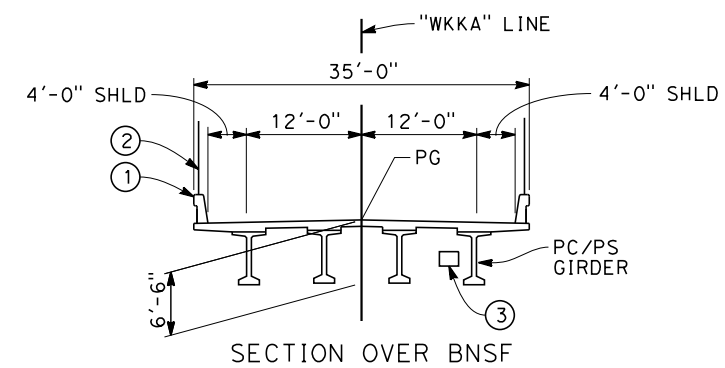
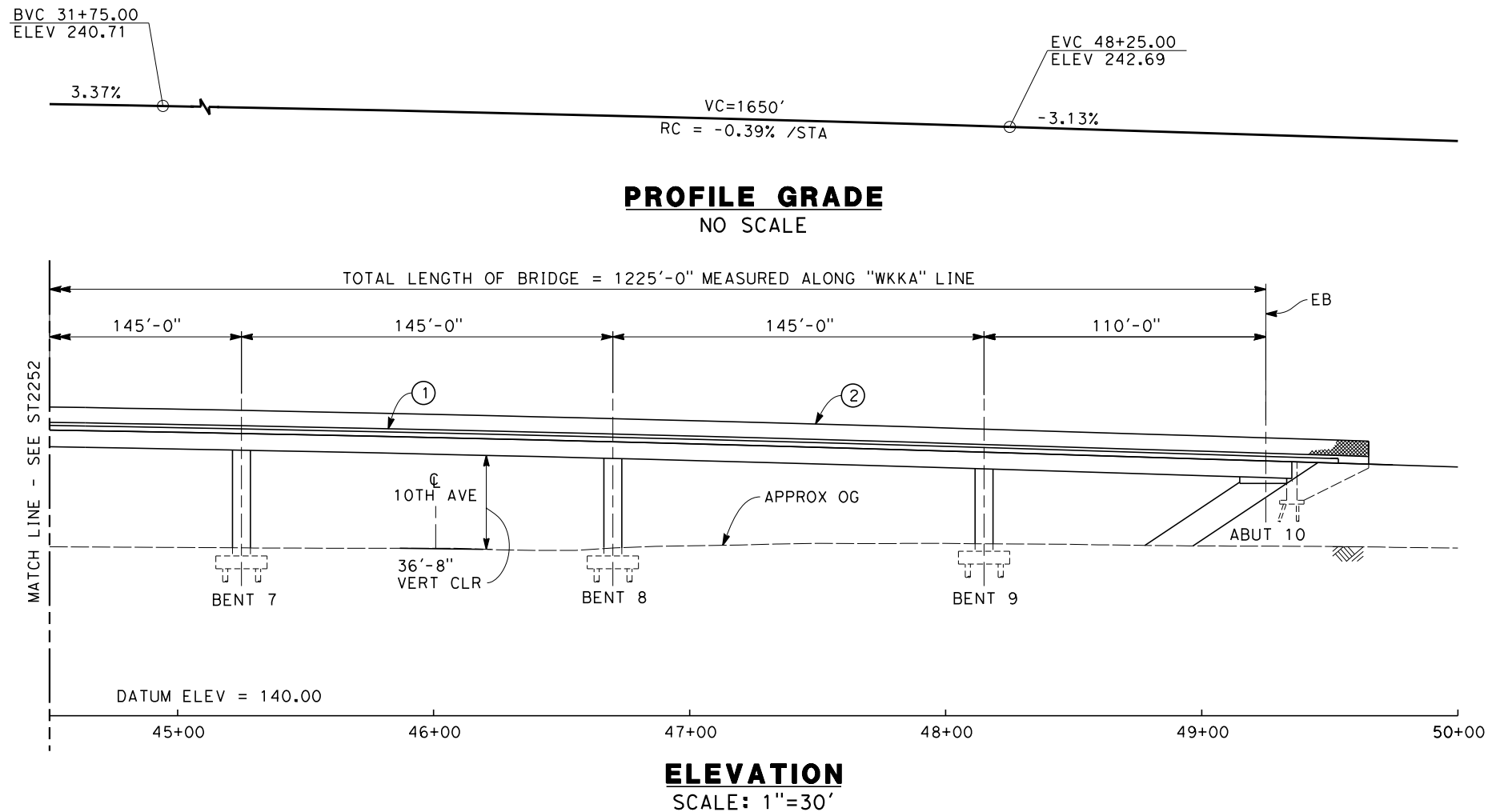
DESIGNED BY  
**E. MORAN**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K5  
OVERHEAD PLANNING STUDY  
KANSAS AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2252  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 7

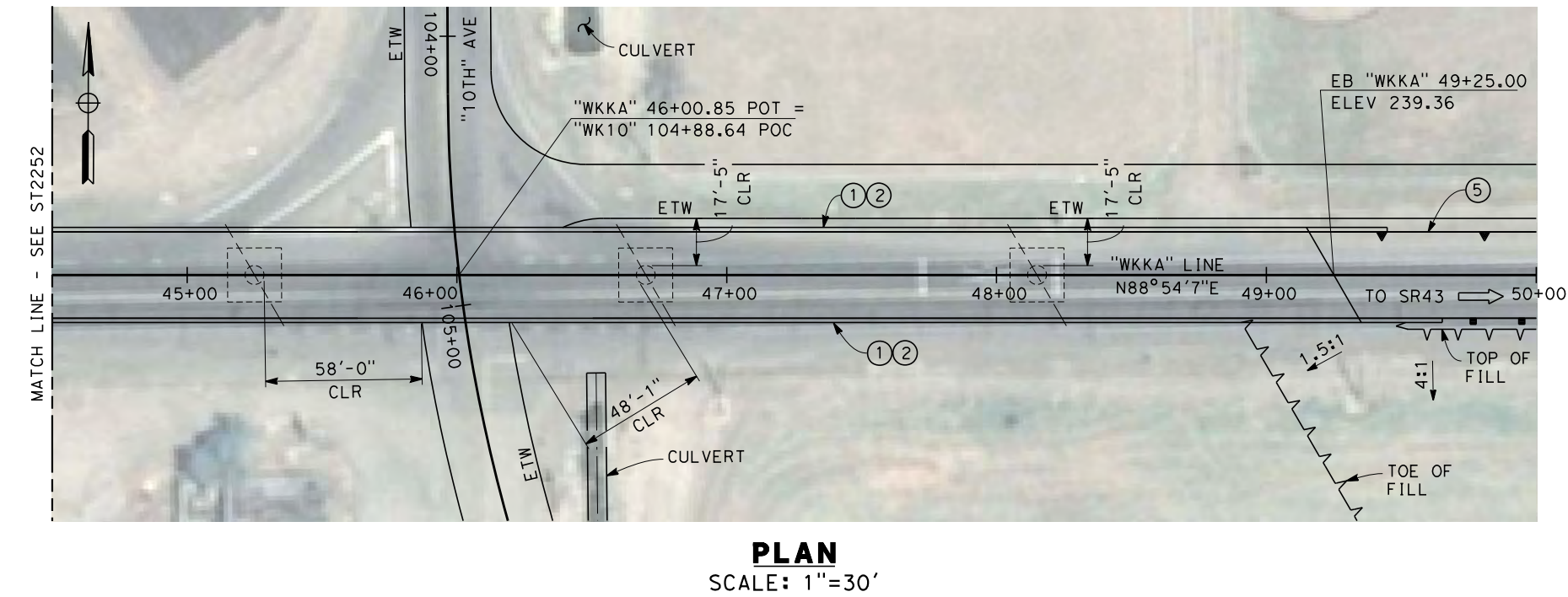
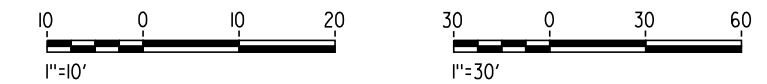


**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL



12/26/2013 10:07:01 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\pre45072\dms87607\FB-ST-2253-K5.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. MORAN**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**B. LUSCOMBE**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

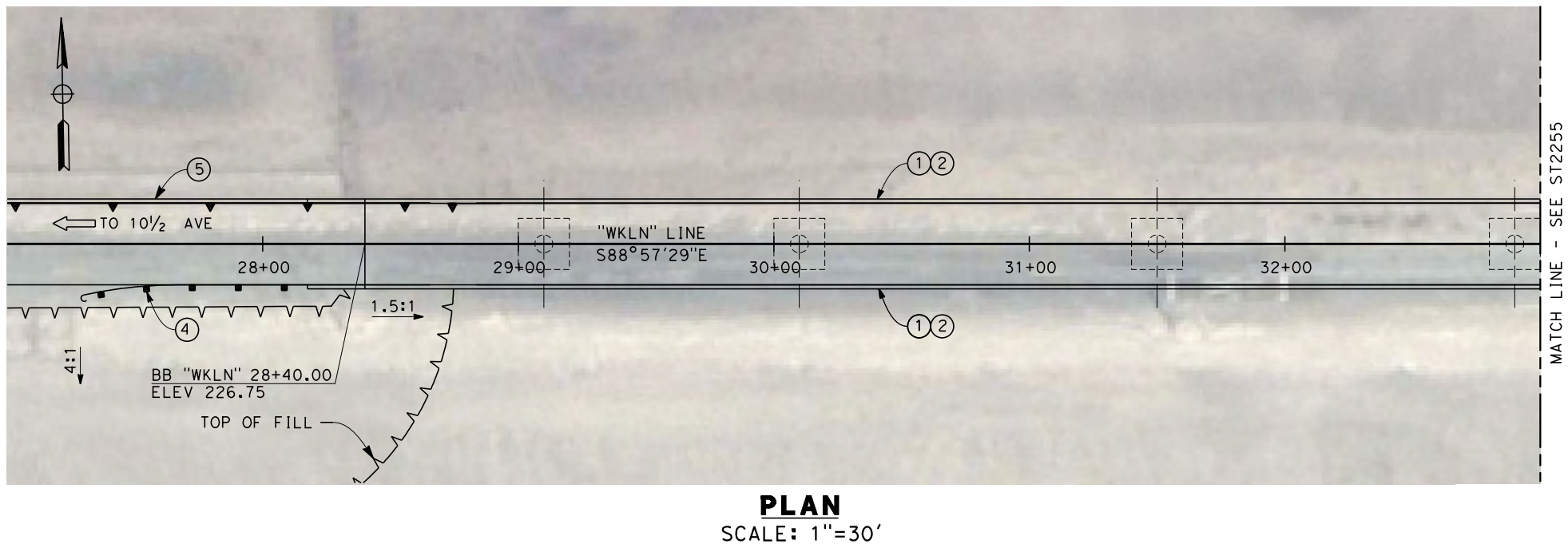
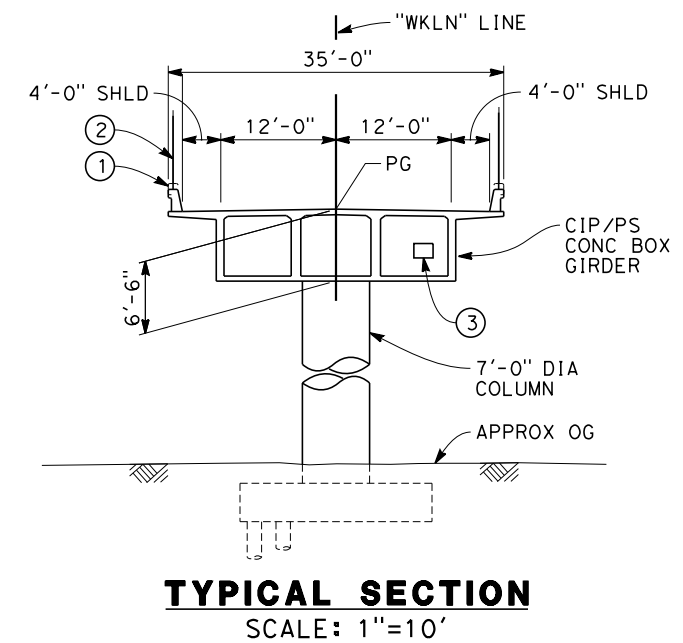
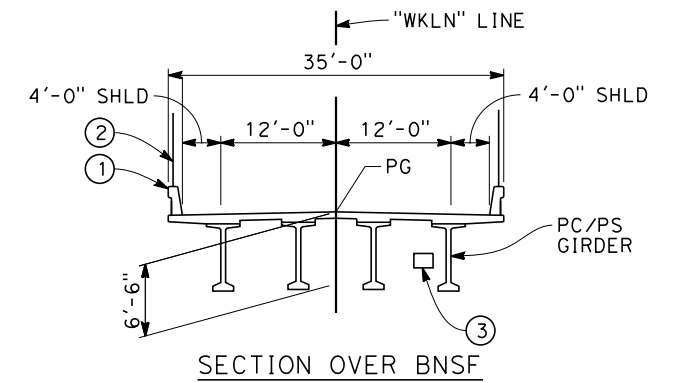
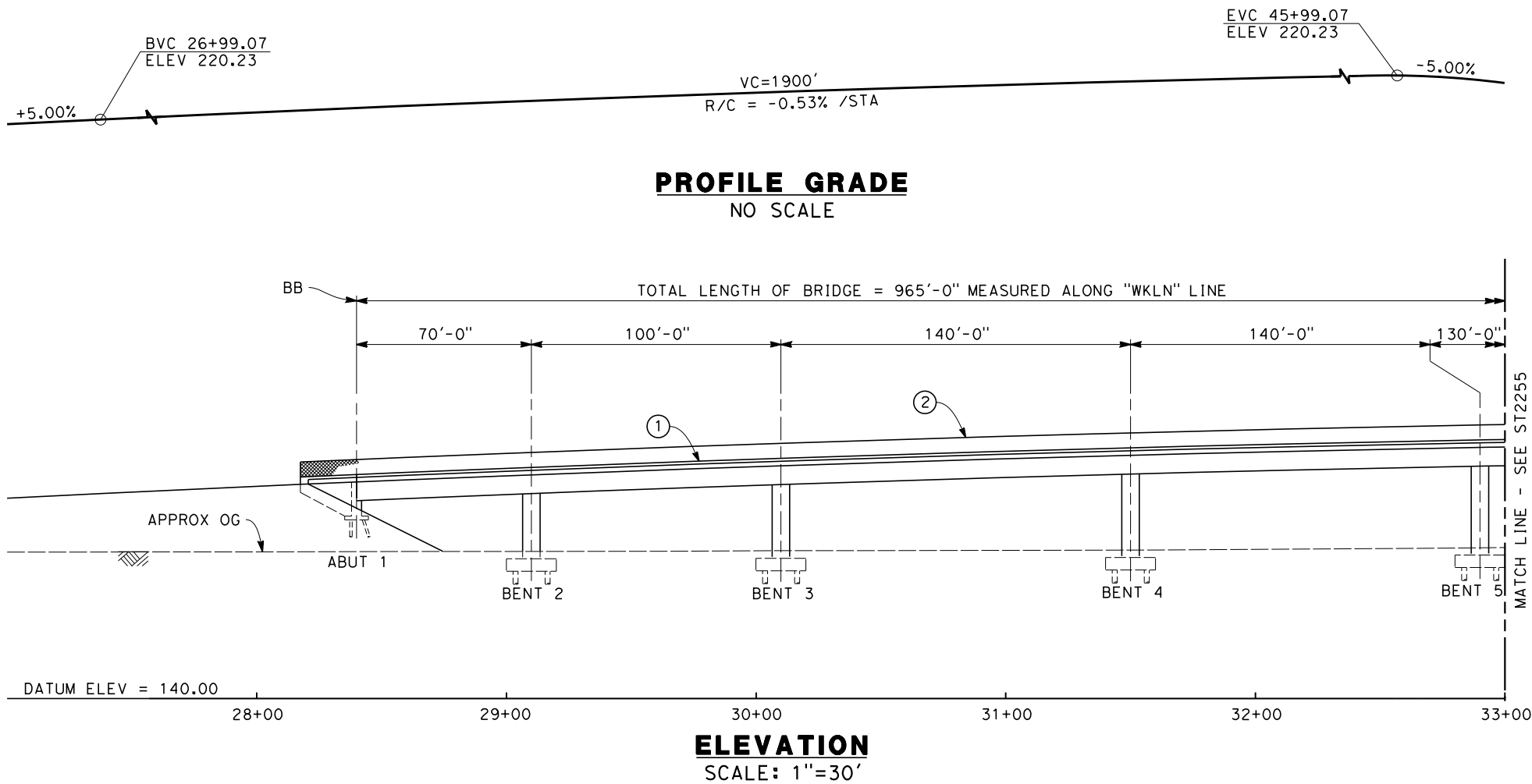
KAWEAH SUBSECTION  
ALIGNMENT K5  
OVERHEAD PLANNING STUDY  
KANSAS AVE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2253

SCALE  
AS SHOWN

SHEET NO.  
5 OF 7

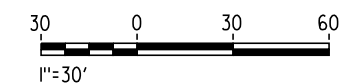
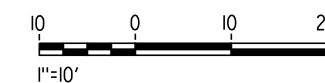


**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL WITH BARRIER



12/26/2013 12:09:40 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt \\pwworking\hmm\external\pre45072\dms87607\FB-ST-2254-K5.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

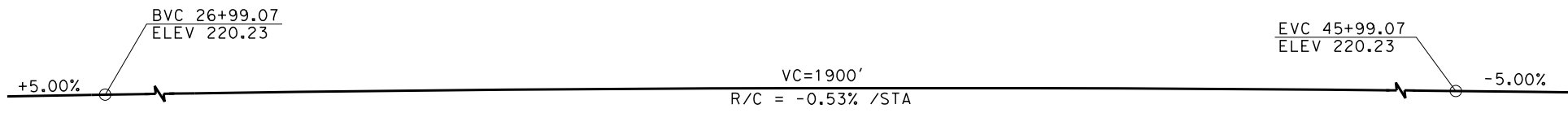
DESIGNED BY  
**E. MORAN**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

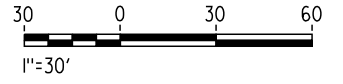
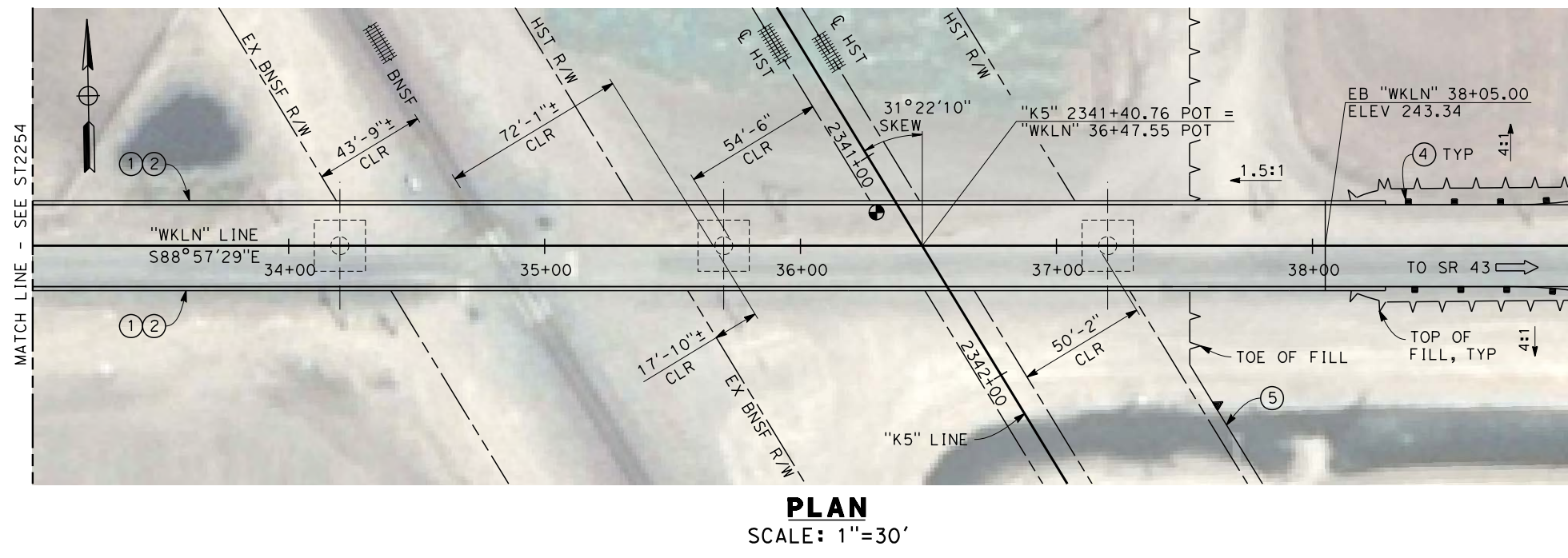
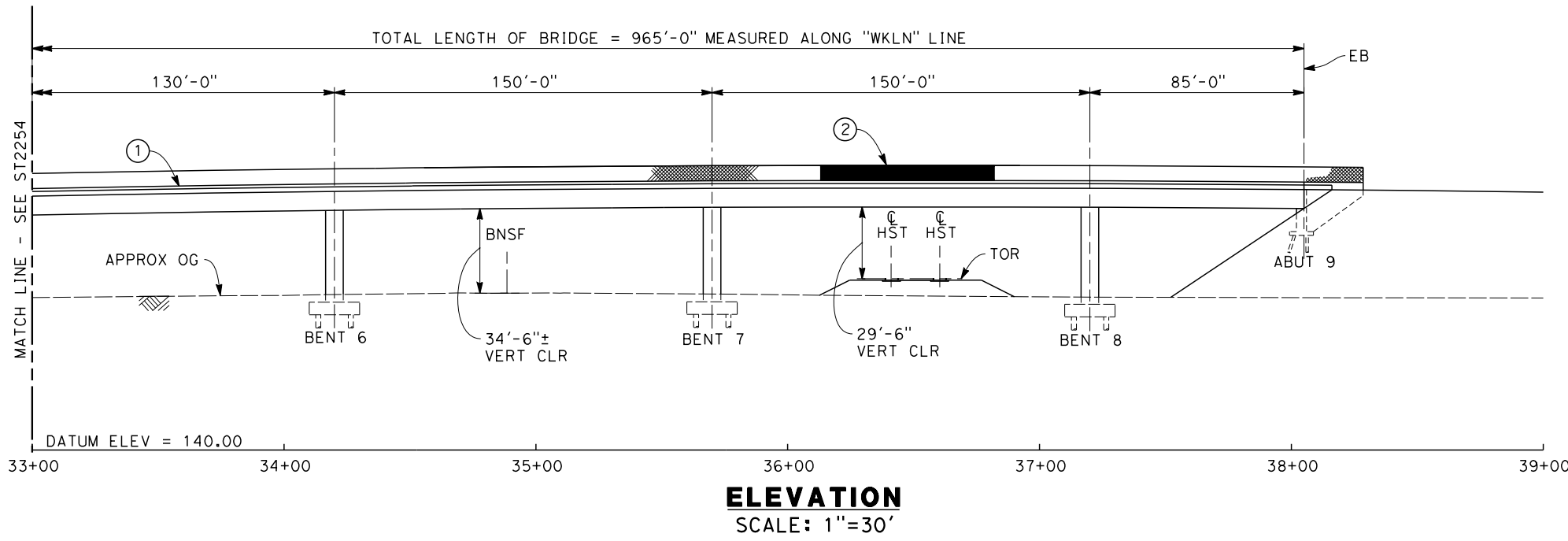


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K5  
OVERHEAD PLANNING STUDY  
LANSING AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2254  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 7



NOTE:  
FOR NOTES AND LEGEND  
SEE SHEET ST2253



12/27/2013 10:22:13 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_2013.dwg \\bar59603\dms87607\FB-ST-2255-K5.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. MORAN**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K5  
OVERHEAD PLANNING STUDY  
LANSING AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2255  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 7

12/19/2013 3:39:55 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\dms90297\FB-SB-0067-K6.dgn



**LEGEND**  
 ---+--- EXISTING FREIGHT RAILROAD  
 ——— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

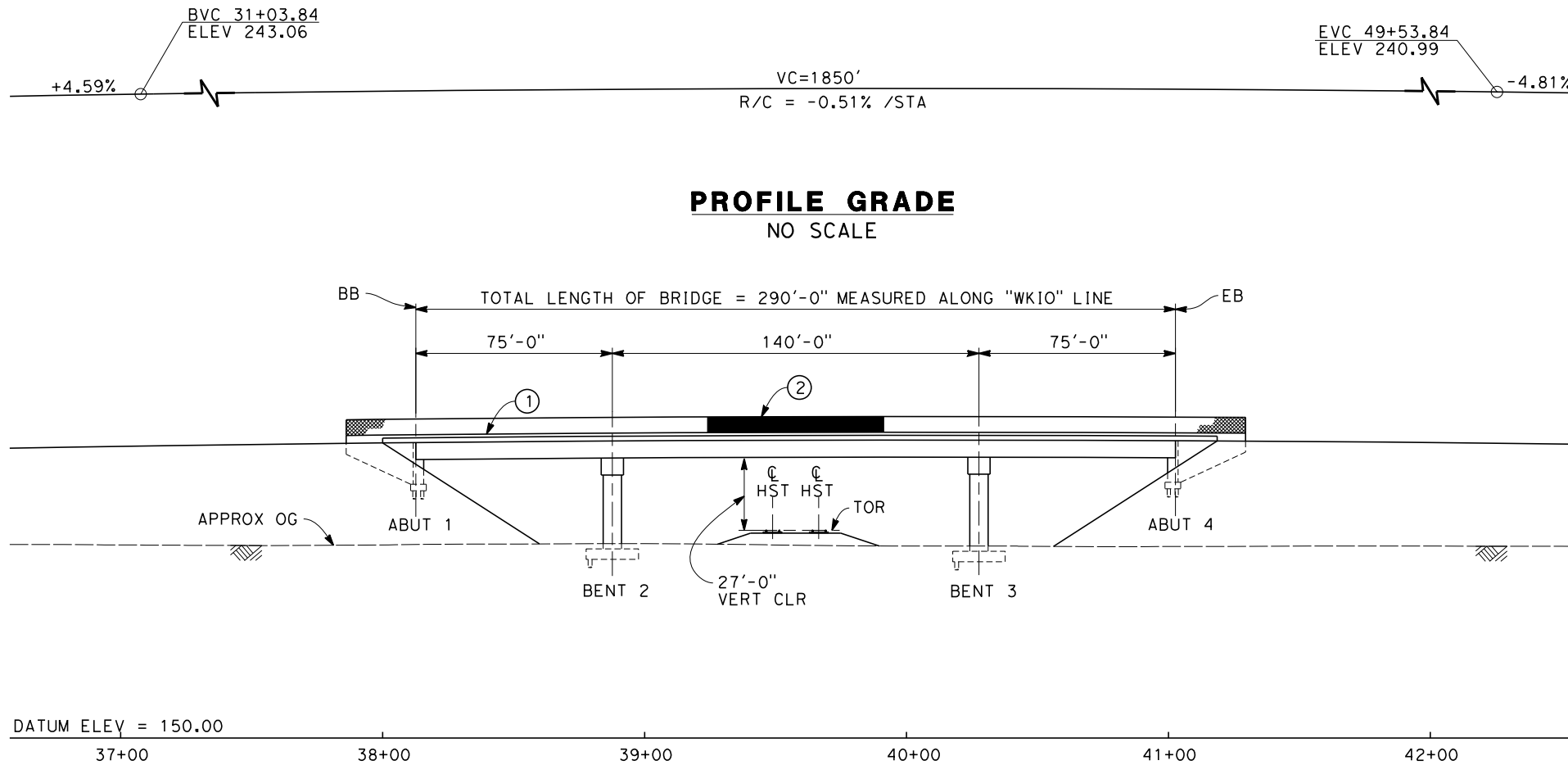
DESIGNED BY  
**M. ANDREWS**  
 DRAWN BY  
**D. BARNHART**  
 CHECKED BY  
**B. LUSCOMBE**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

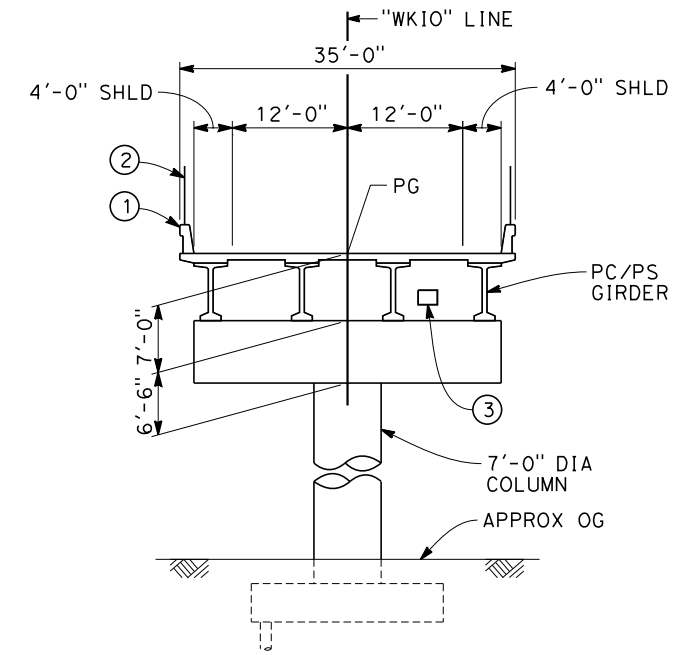


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 KAWEAH SUBSECTION  
 ALIGNMENT K6  
 OVERHEAD PLANNING STUDY  
 KEY MAP

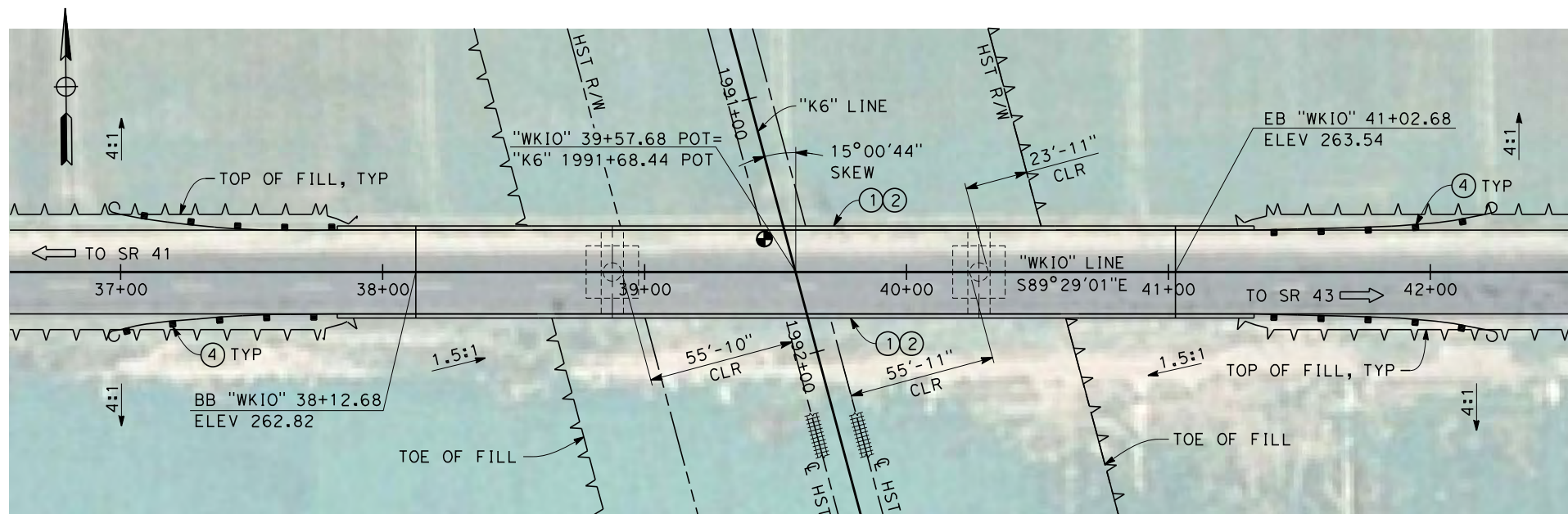
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
SB0067  
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AS SHOWN  
 SHEET NO.  
1 OF 7



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



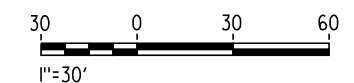
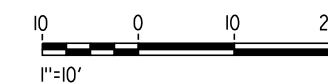
**PLAN**  
SCALE: 1"=30'

**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/19/2013 10:02:57 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\dms90297\FB-ST-2260-K6.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**B. LUSCOMBE**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



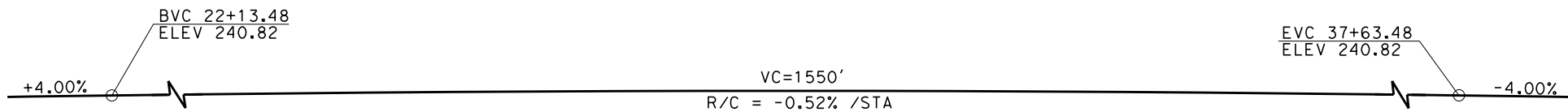
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
HANFORD WEST BYPASS SUBSECTION  
ALIGNMENT K6  
OVERHEAD PLANNING STUDY  
IONA AVE

CONTRACT NO.  
HSR 06-0003

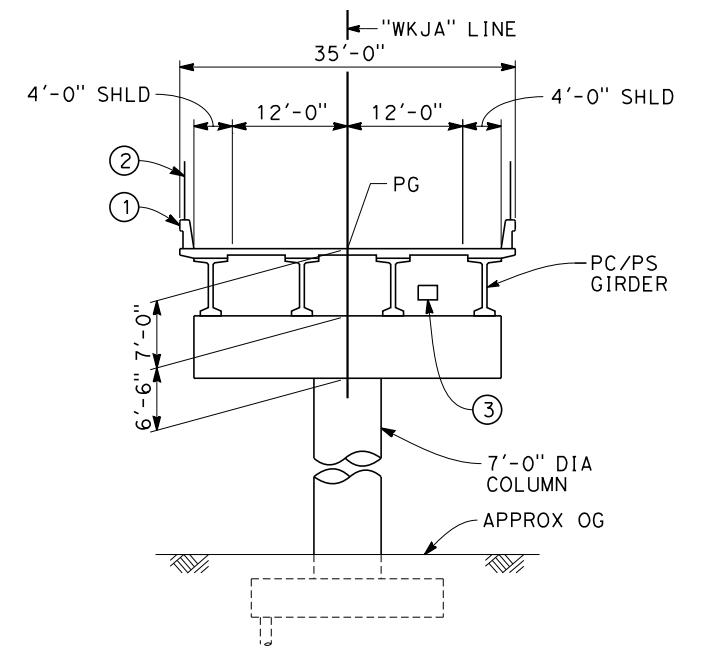
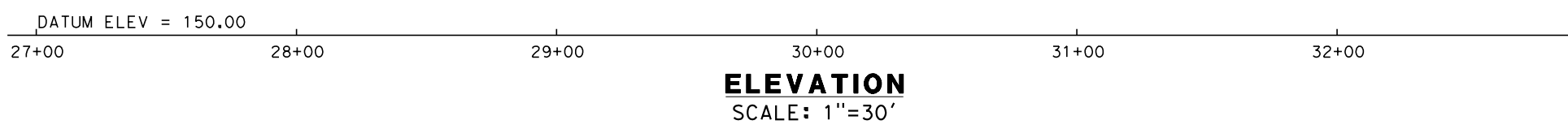
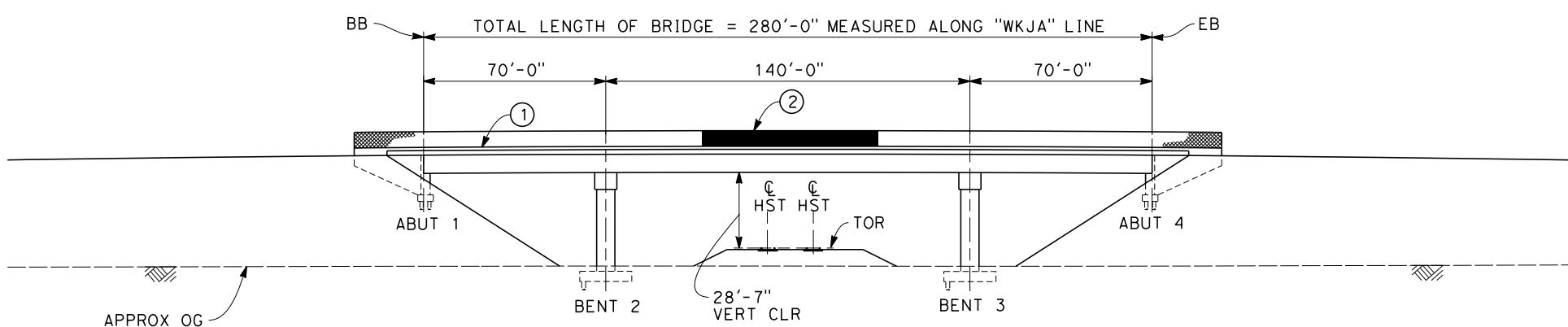
DRAWING NO.  
ST2260

SCALE  
AS SHOWN

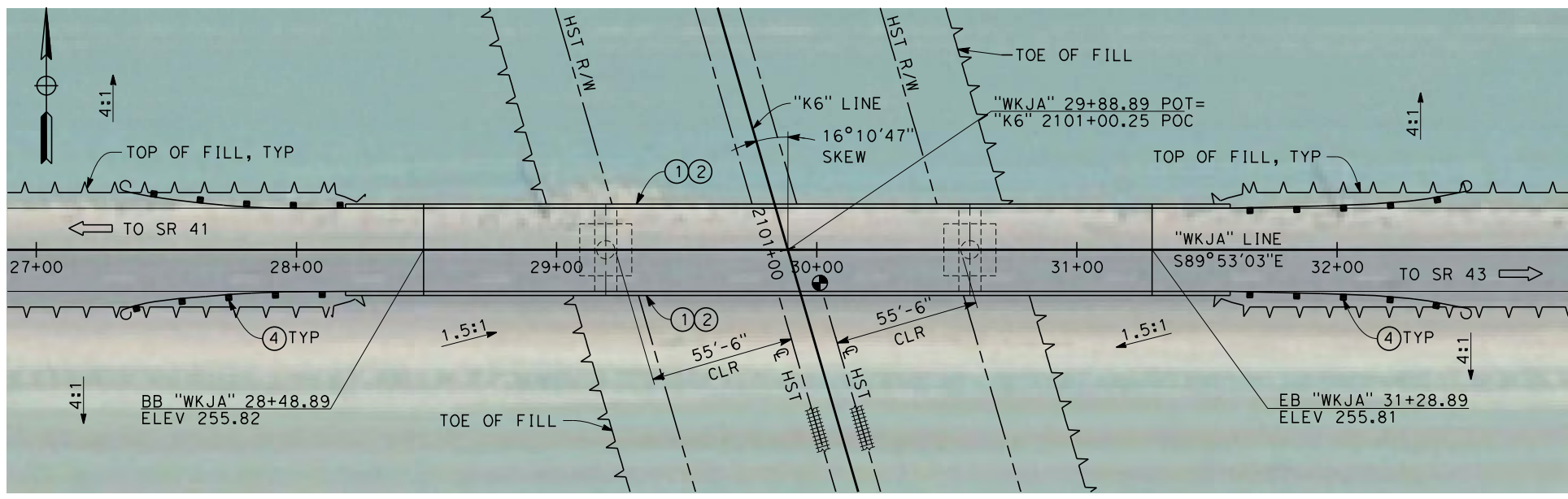
SHEET NO.  
2 OF 7



**PROFILE GRADE**  
NO SCALE



**TYPICAL SECTION**  
SCALE: 1"=10'



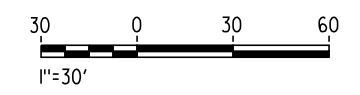
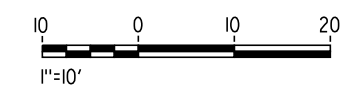
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AIR FENCE
- ② AIR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/19/2013 1:31:24 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt \\pwworking\hmm\external\and52110\dms90297\FB-ST-2261-K6.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

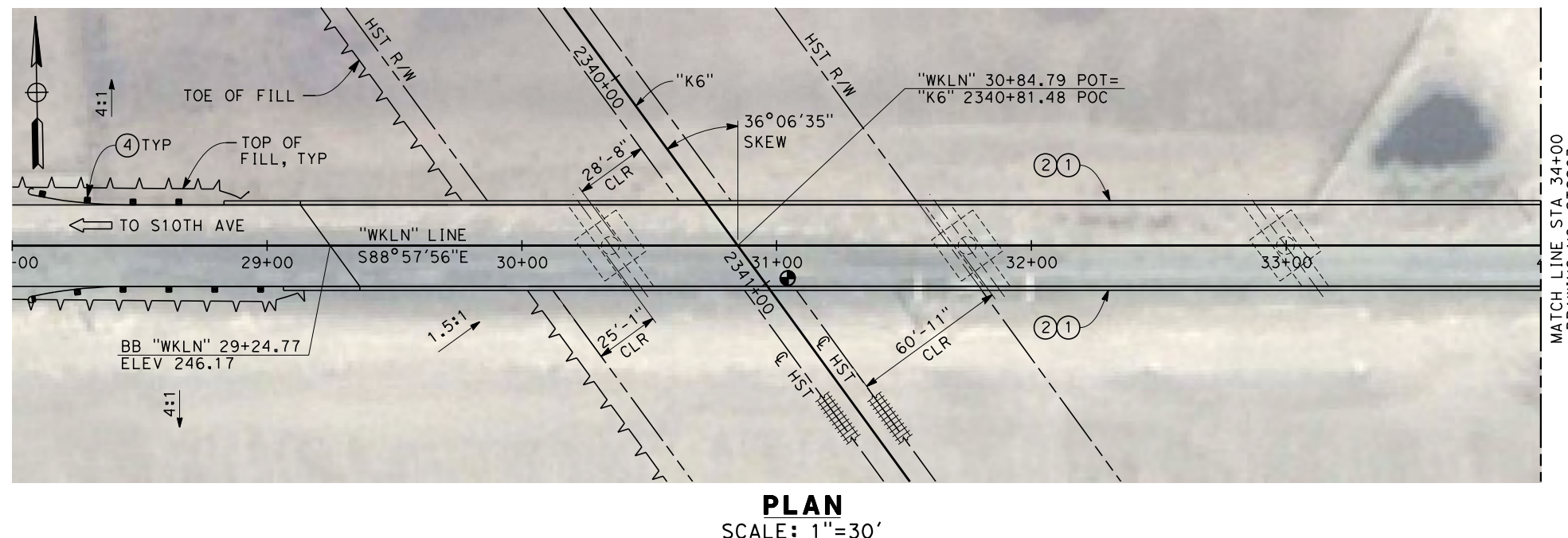
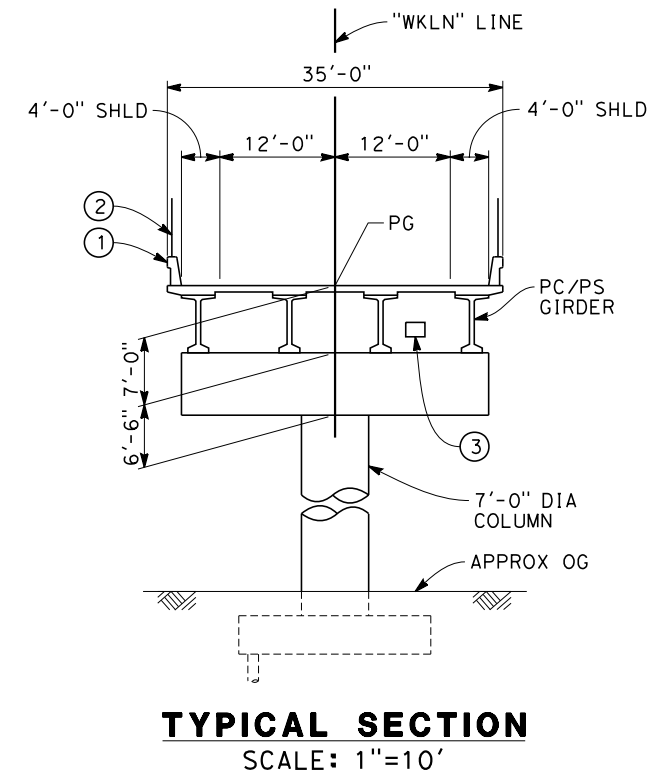
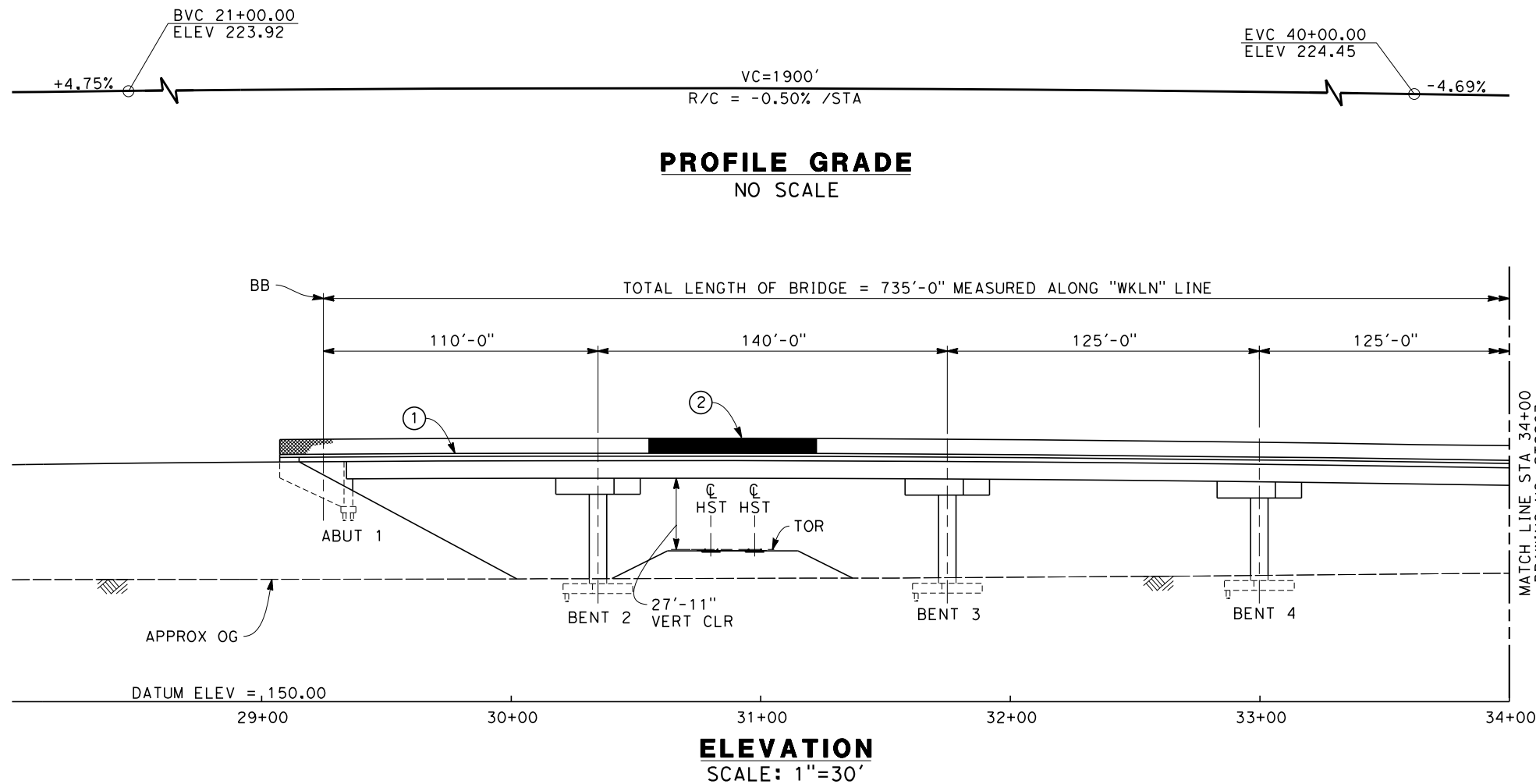
DESIGNED BY  
**M. ANDREWS**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K6  
OVERHEAD PLANNING STUDY  
JACKSON AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2261  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 7



- NOTES:
- ALL PILES NOT SHOWN
  - FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLAN.
- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/19/2013 4:36:50 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\dms90297\FB-ST-2262-K6.dgn AND52110

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**B. LUSCOMBE**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

KAWEAH SUBSECTION  
ALIGNMENT K6  
OVERHEAD PLANNING STUDY  
LANSING AVE

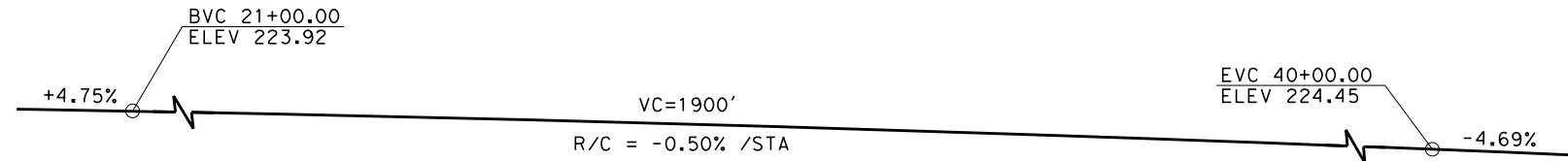
CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2262

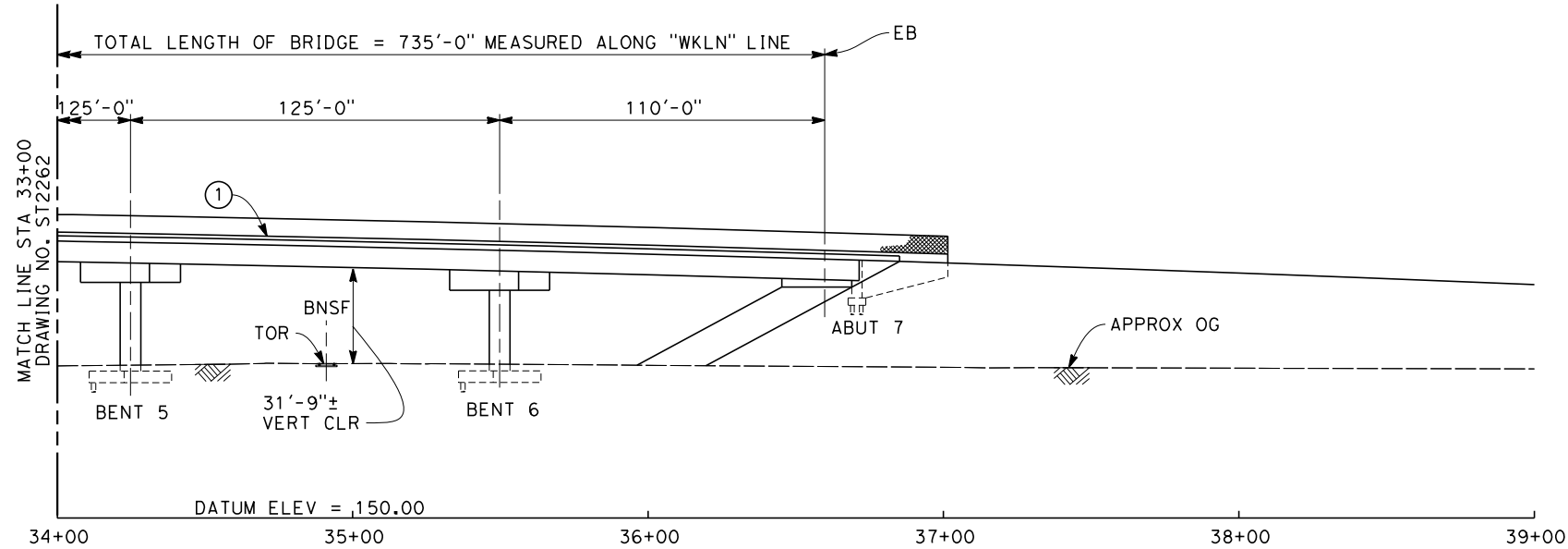
SCALE  
AS SHOWN

SHEET NO.  
4 OF 7

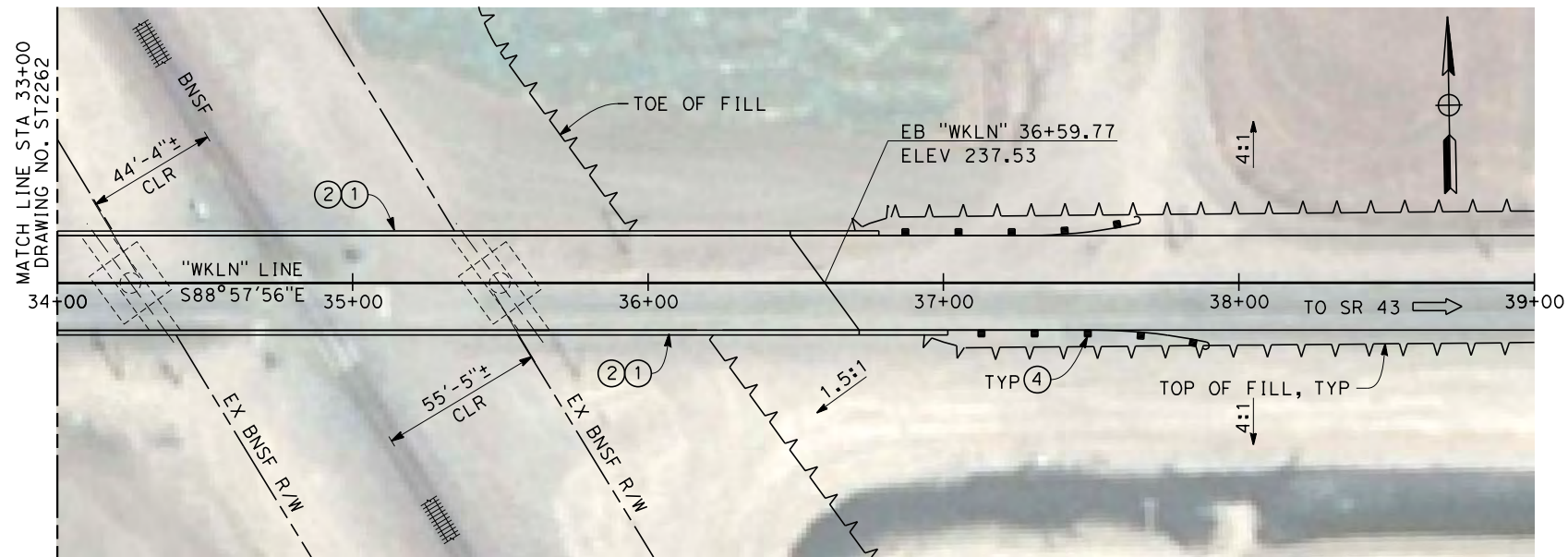




**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



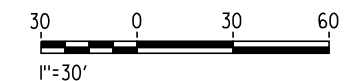
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



AND52110 12/19/2013 4:42:31 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt: \\pwworking\hmm\external\and52110\dms90297\FB-ST-2263-K6.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

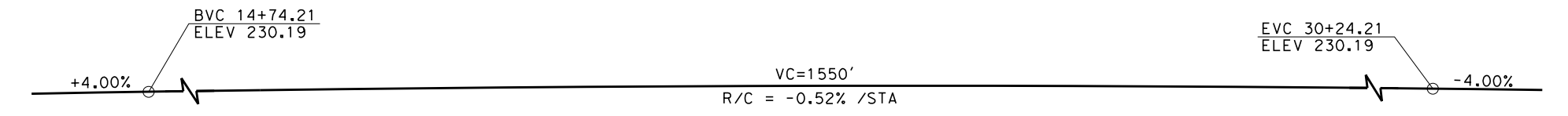
DESIGNED BY  
**M. ANDREWS**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

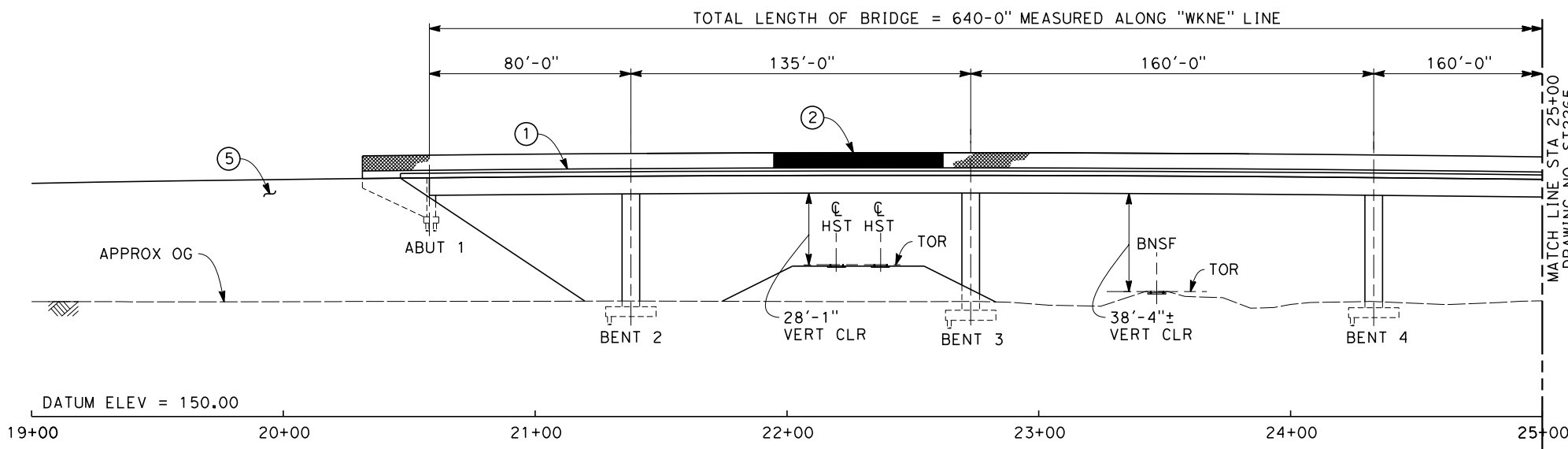


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K6  
OVERHEAD PLANNING STUDY  
LANSING AVE

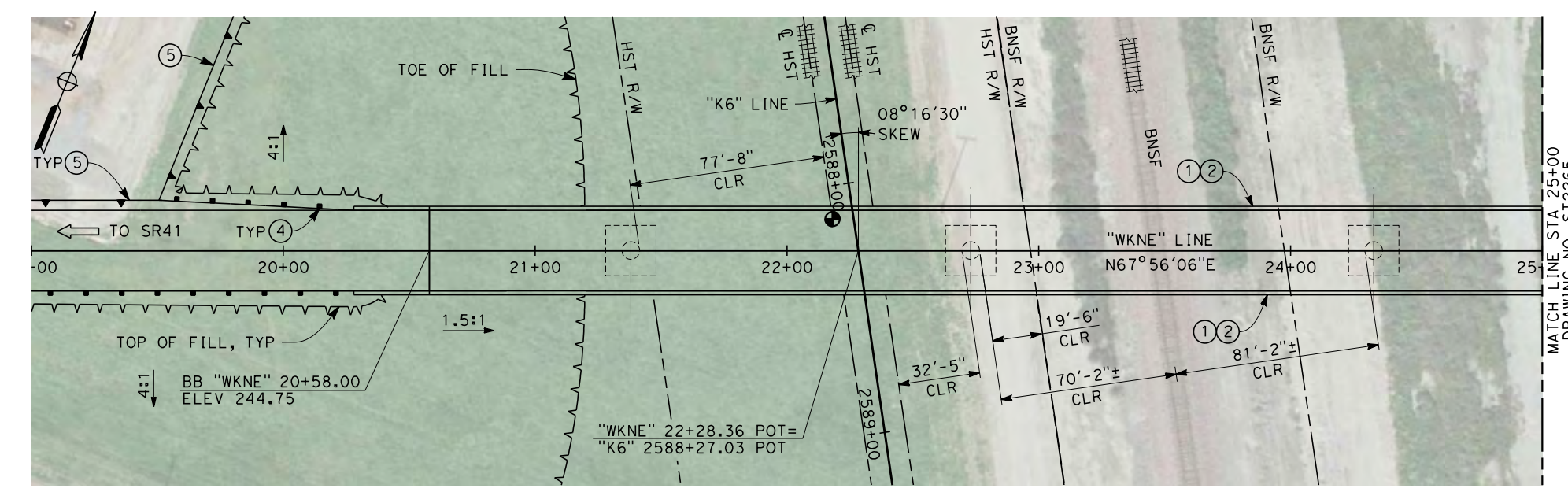
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HSR 06-0003  
DRAWING NO.  
ST2263  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 7



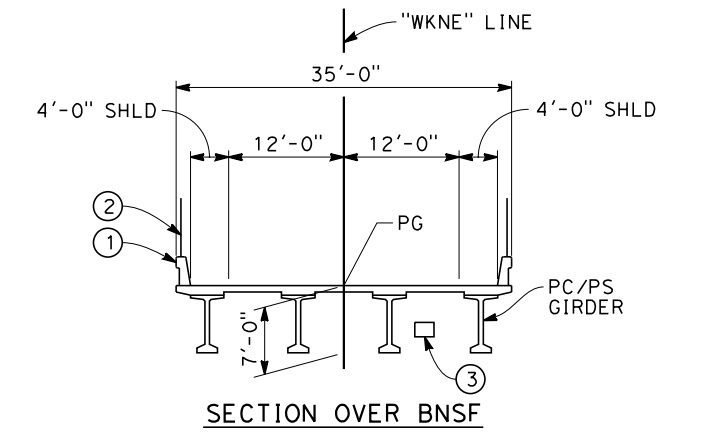
**PROFILE GRADE**  
NO SCALE



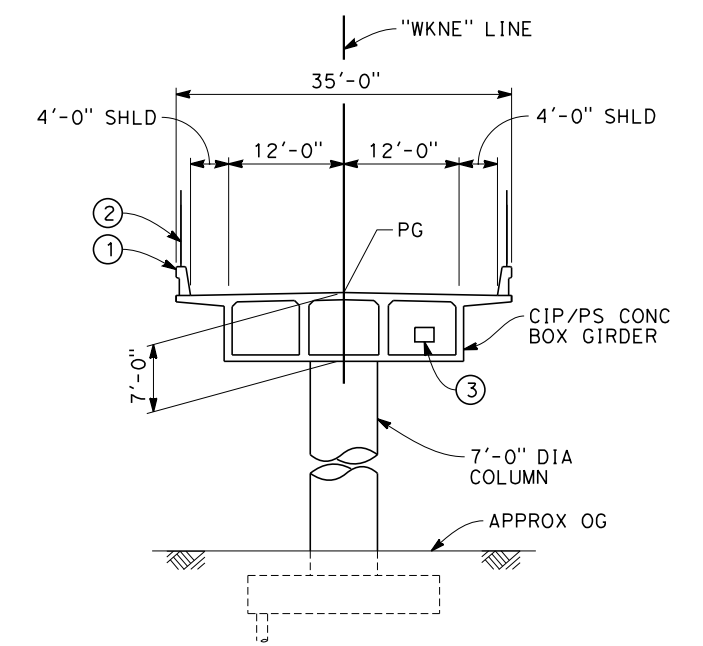
**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



**SECTION OVER BNSF**



**TYPICAL SECTION**  
SCALE: 1"=10'

**NOTES:**

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

**LEGEND:**

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASUREMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL (SEE ROADWAY PLANS)



12/19/2013 4:51:18 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\and52110\dms90297\FB-ST-2264-K6.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

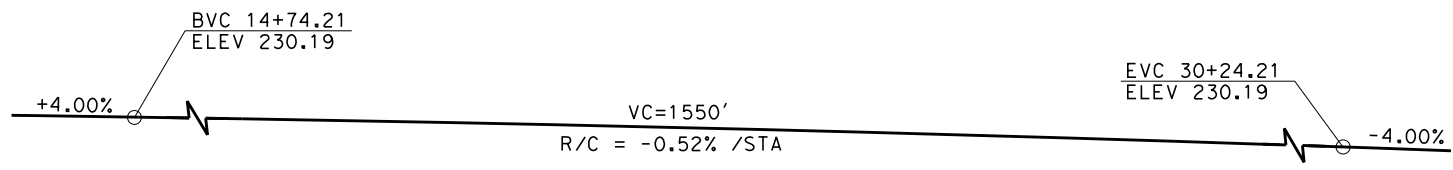
KAWEAH SUBSECTION  
ALIGNMENT K6  
OVERHEAD PLANNING STUDY  
NEVADA AVE

CONTRACT NO.  
HSR 06-0003

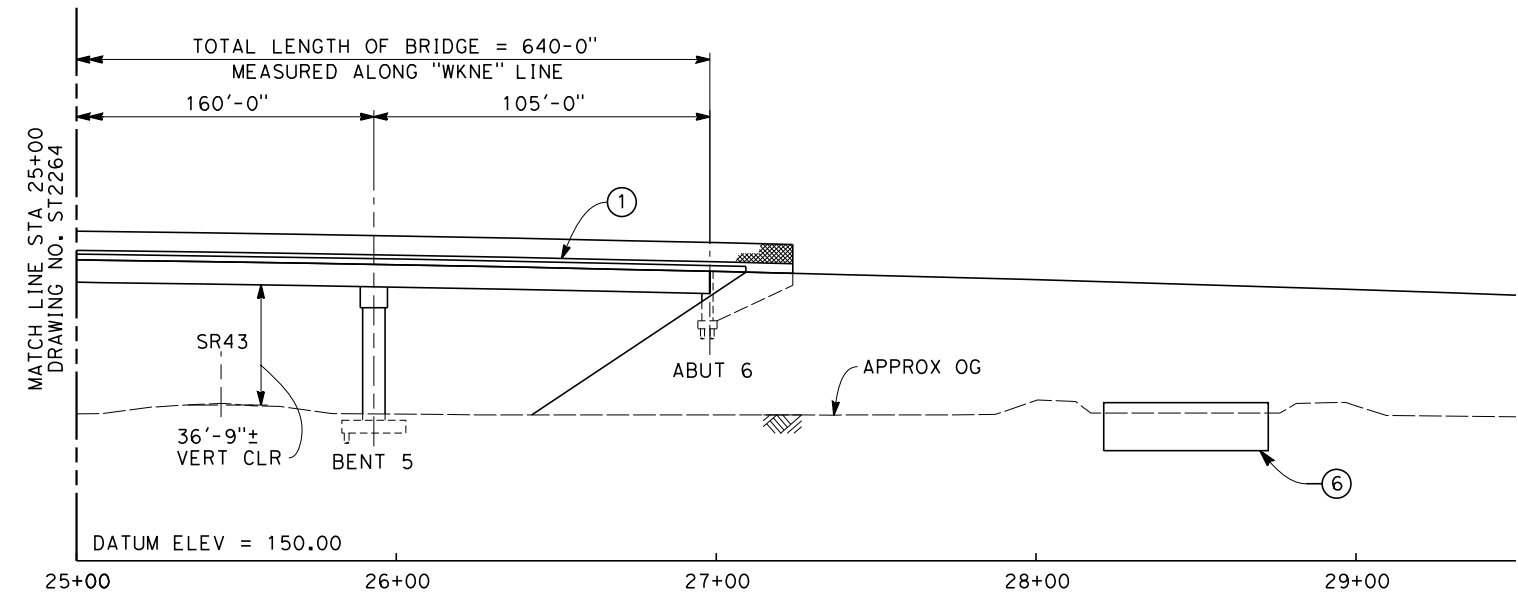
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ST2264

SCALE  
AS SHOWN

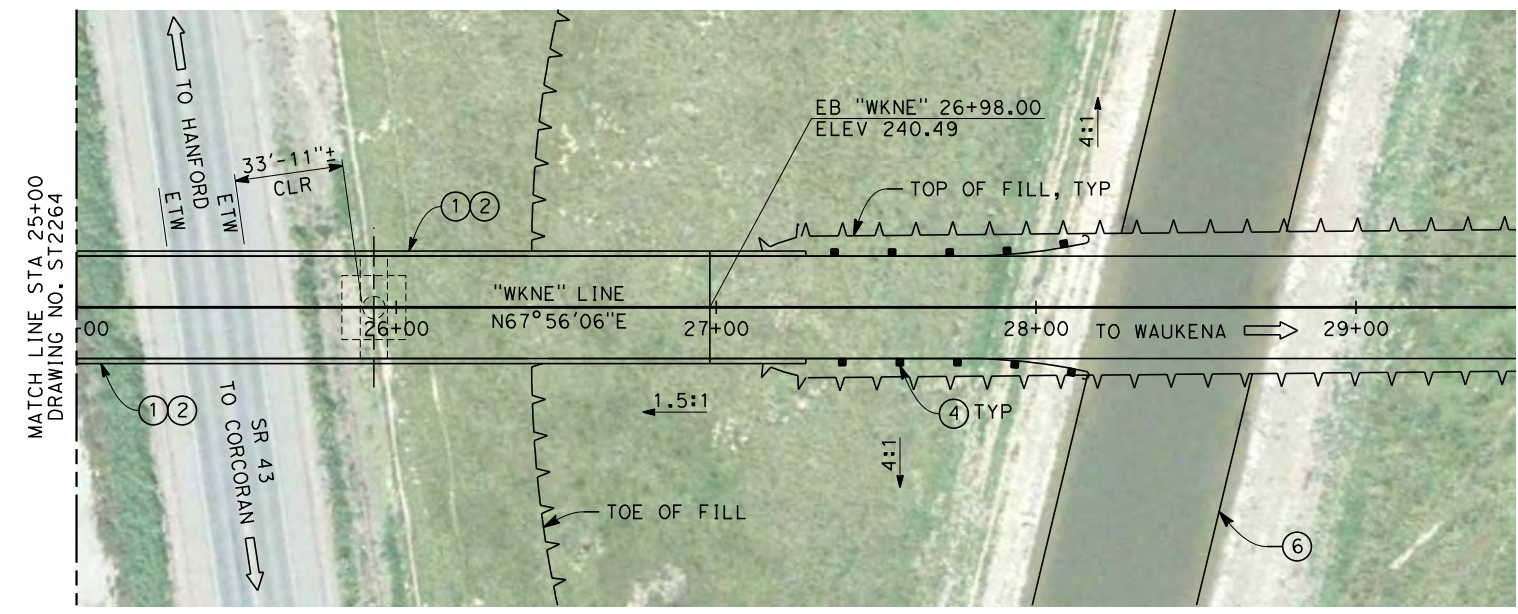
SHEET NO.  
6 OF 7



**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



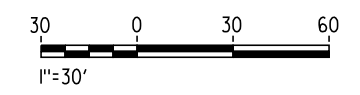
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASUREMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL (SEE ROADWAY PLANS)
- ⑥ CULVERT (SEE ROADWAY PLANS)



AND52110 12/19/2013 4:55:10 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt: \\pwworking\hmm\external\and52110\dms90297\FB-ST-2265-K6.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. ANDREWS**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**B. LUSCOMBE**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

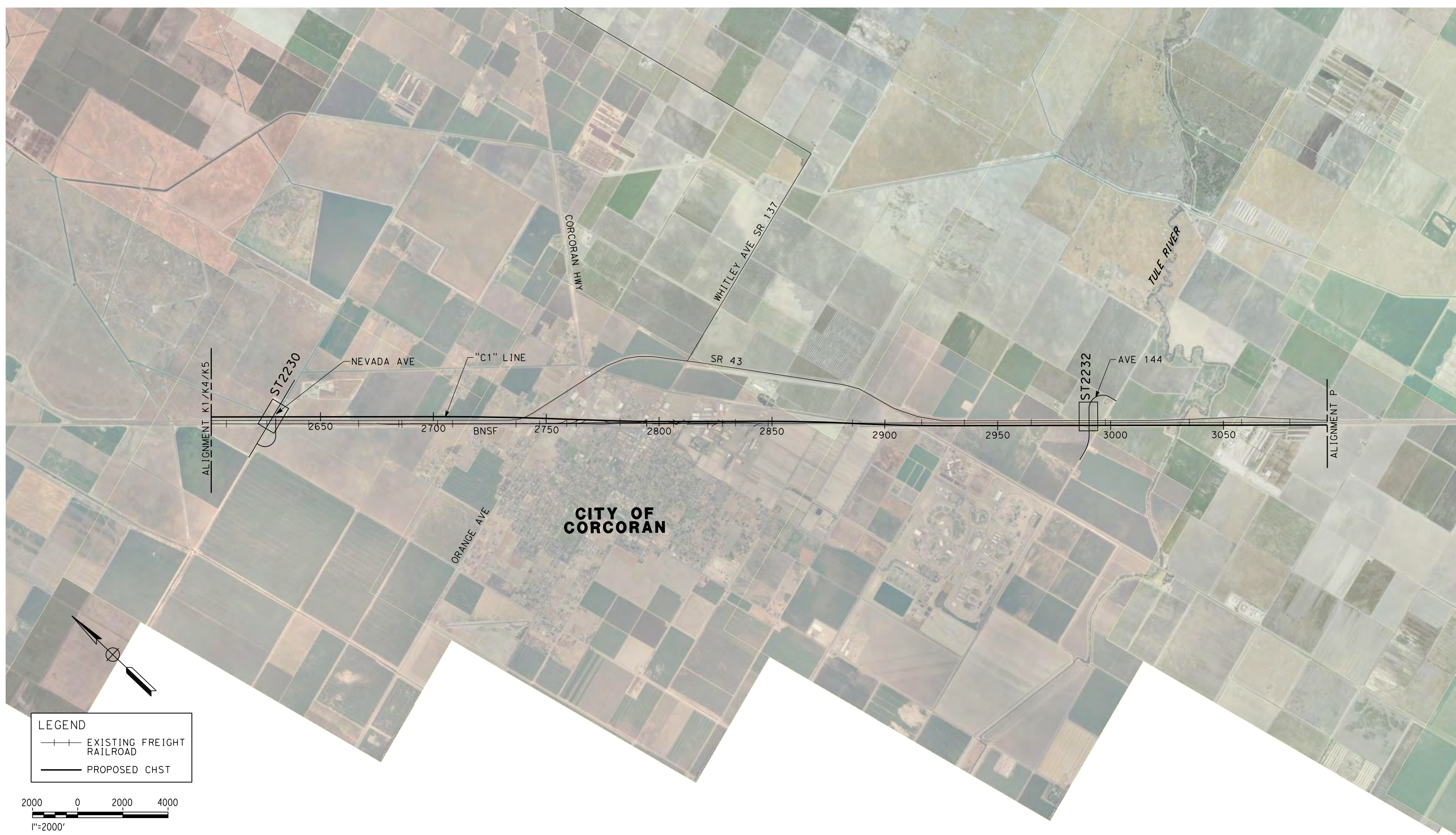
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DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWEAH SUBSECTION  
ALIGNMENT K6  
OVERHEAD PLANNING STUDY  
NEVADA AVE

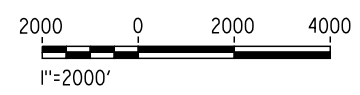
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DRAWING NO.  
ST2265  
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AS SHOWN  
SHEET NO.  
7 OF 7

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**LEGEND**

- +—+— EXISTING FREIGHT RAILROAD
- PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
D. BARNHART

CHECKED BY  
M. AMINI

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



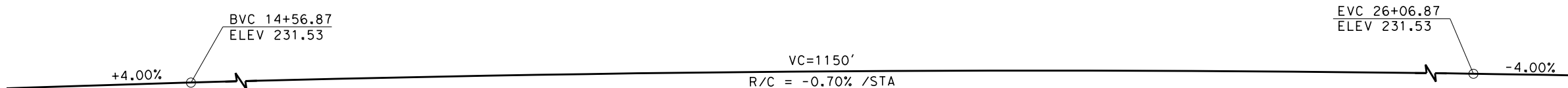
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 CORCORAN SUBSECTION  
 ALIGNMENT C1  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
HSR 06-0003

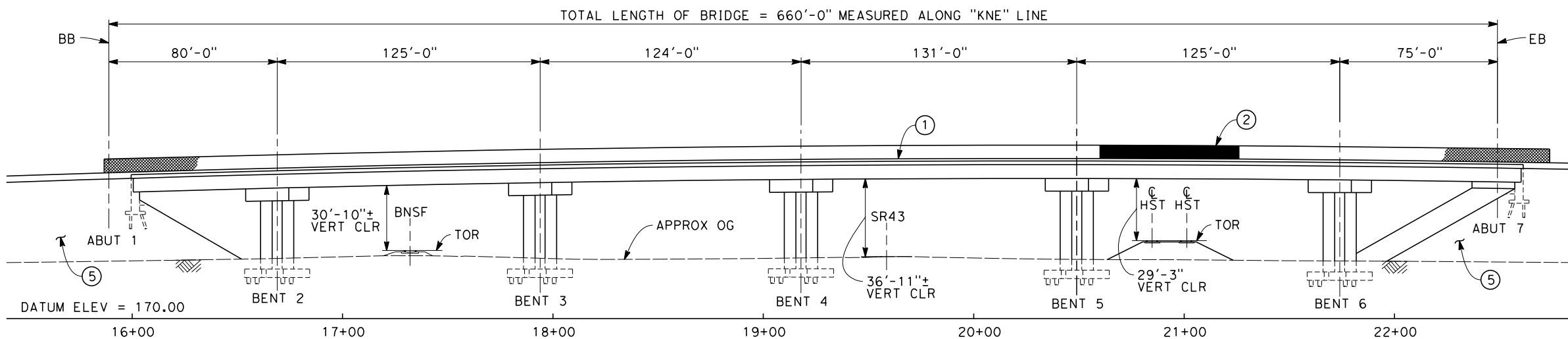
DRAWING NO.  
SB0070

SCALE  
AS SHOWN

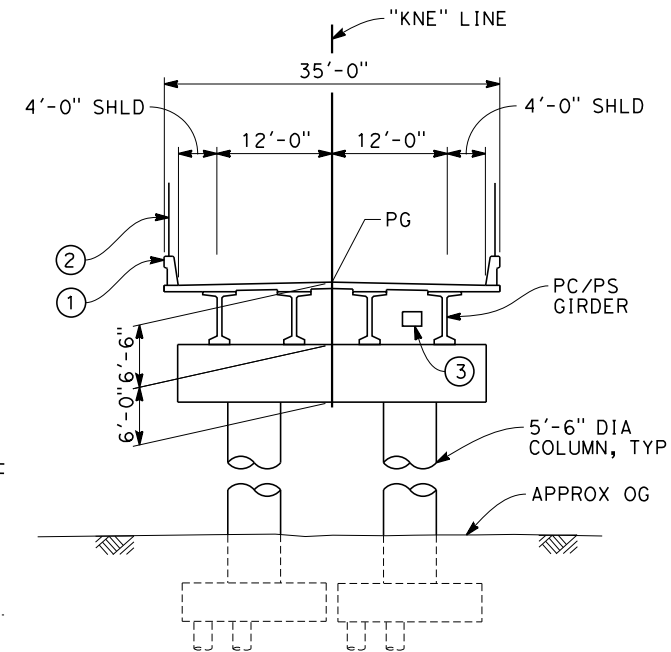
SHEET NO.  
1 OF 3



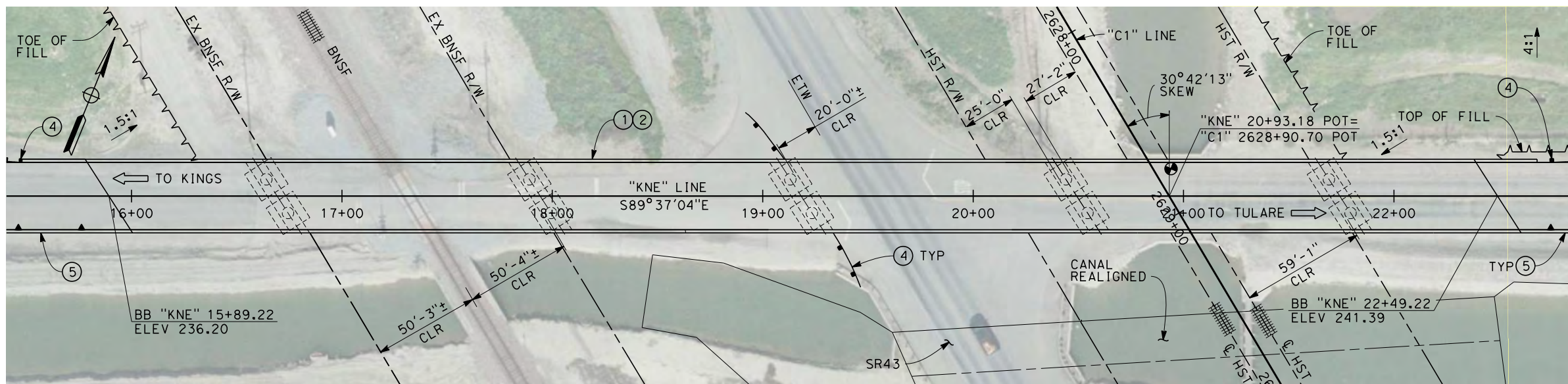
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NO SCALE



**ELEVATION**  
SCALE: 1"=30'

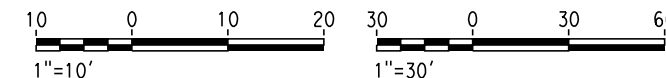


**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.
- LEGEND:
- ① CONCRETE BARRIER WITH AIR FENCE
  - ② AIR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASUREMENT OPENING
  - ④ MBGR
  - ⑤ RETAINING WALL, TYPE TO BE DETERMINED



12/27/2013 9:59:42 AM c:\pwworking\hmm\external\pro39009\dms91104\FB-ST-2230-C1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

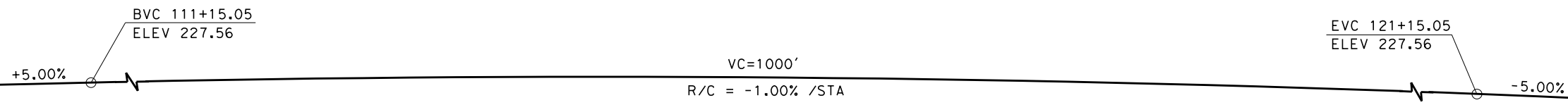
DESIGNED BY  
L. SMITH  
DRAWN BY  
T. PRETZER  
CHECKED BY  
M. AMINI  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

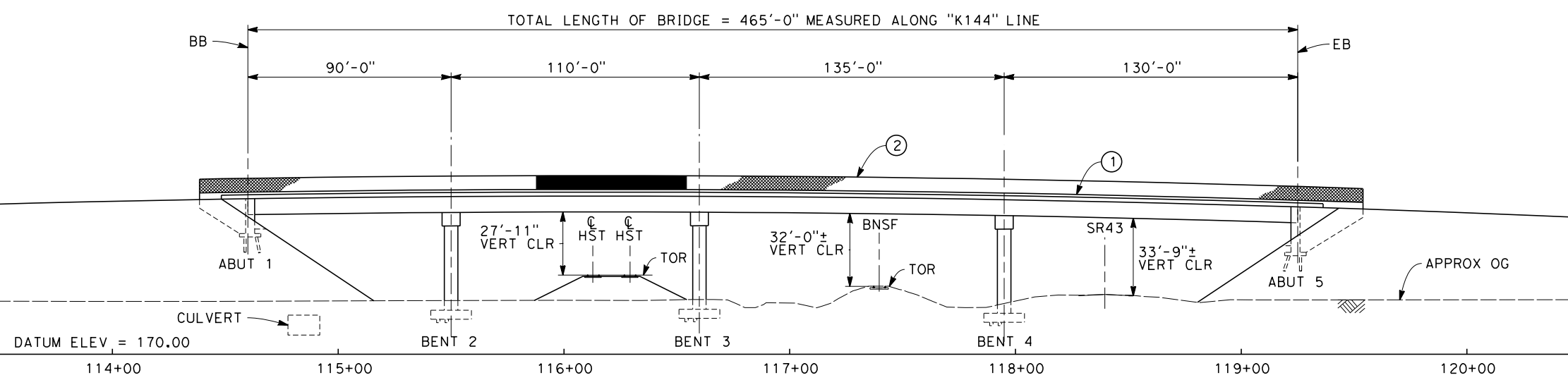


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
CORCORAN BYPASS SUBSECTION  
ALIGNMENT C1  
OVERHEAD PLANNING STUDY  
NEVADA AVE

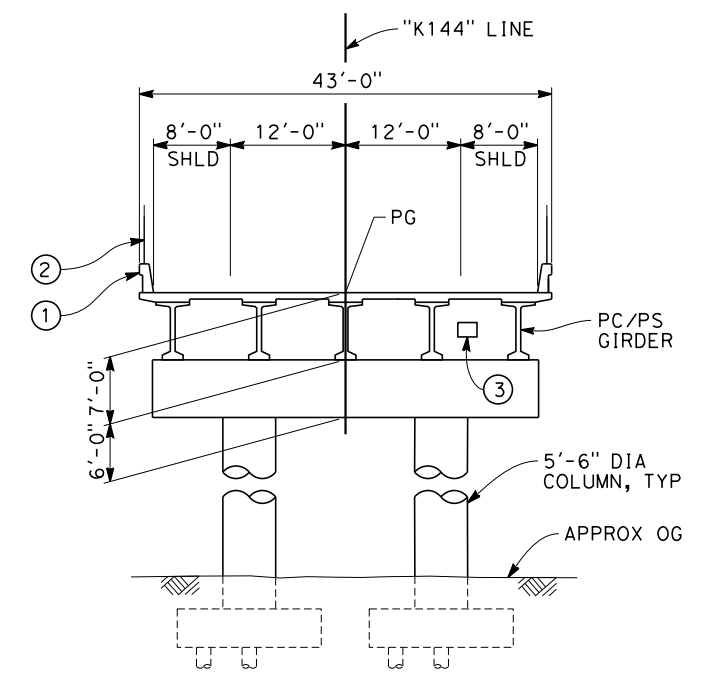
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2230  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 3



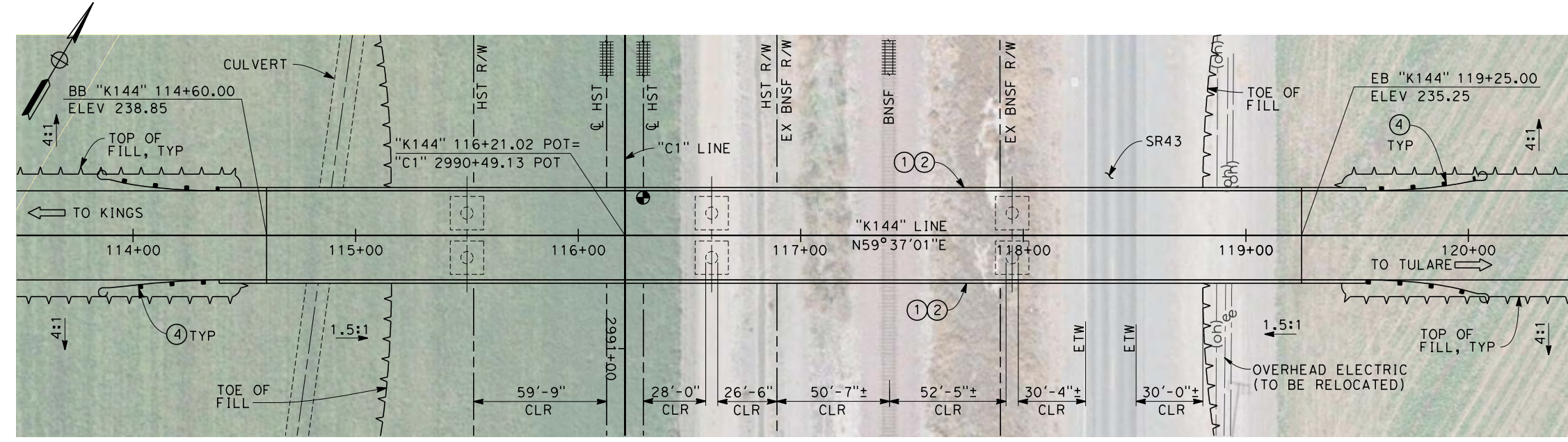
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



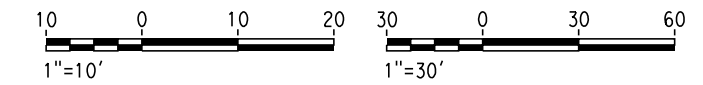
**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



12/27/2013 9:50:40 AM c:\pwworking\hmm\external\pro3909\dms91104\FB-ST-2232-C1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH  
DRAWN BY  
D. BARNHART  
CHECKED BY  
M. AMINI  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
CORCORAN SUBSECTION  
ALIGNMENT C1  
OVERHEAD PLANNING STUDY  
AVE 144

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2232  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 3

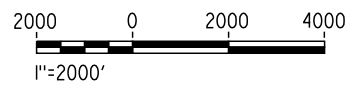
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**LEGEND**

---+---+--- EXISTING FREIGHT RAILROAD

———— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
L. SMITH

DRAWN BY  
D. BARNHART

CHECKED BY  
M. AMINI

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



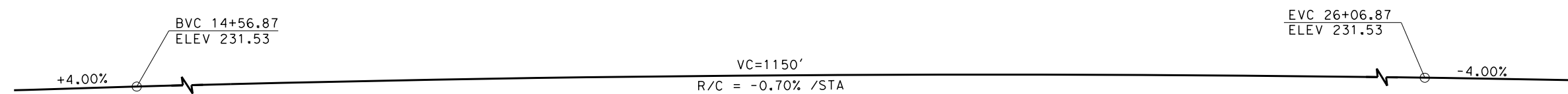
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 CORCORAN BYPASS SUBSECTION  
 ALIGNMENT C2  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
HSR 06-0003

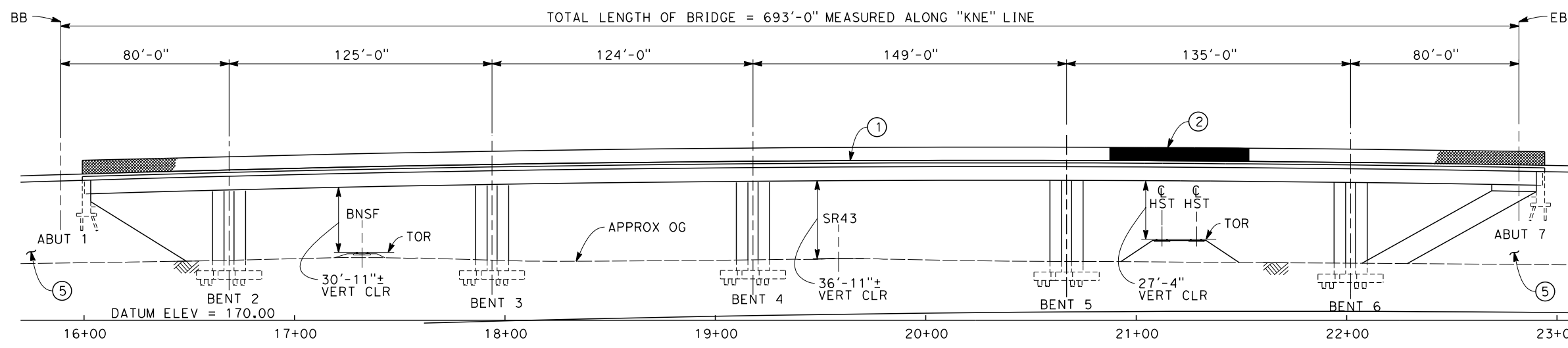
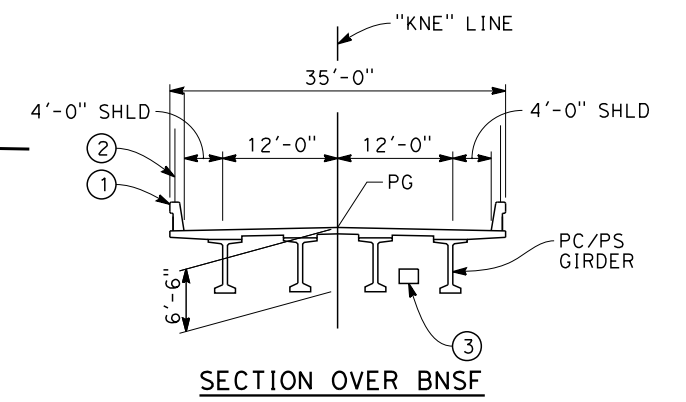
DRAWING NO.  
SB0075

SCALE  
AS SHOWN

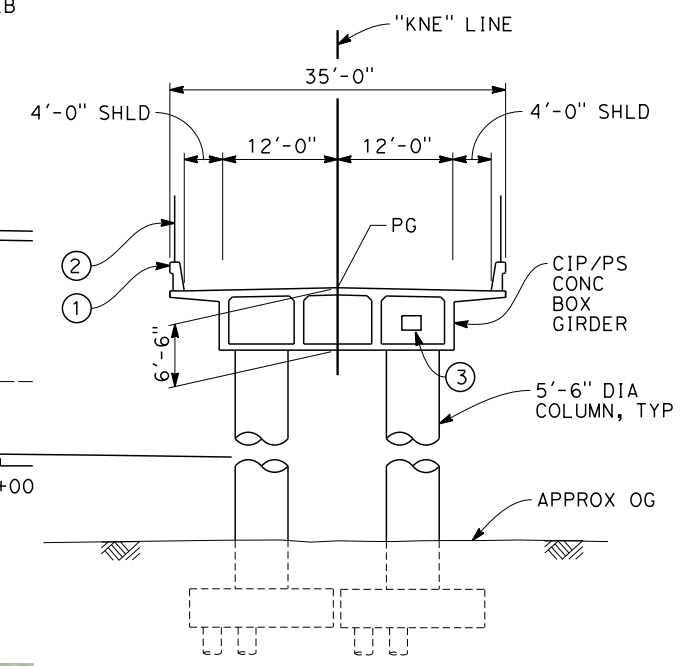
SHEET NO.  
1 OF 3



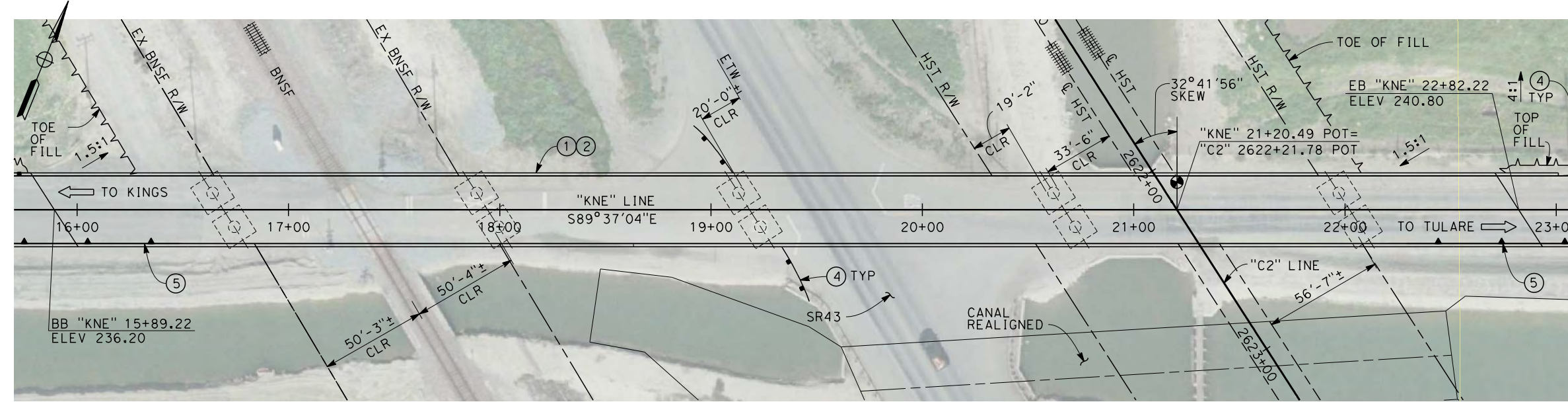
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NO SCALE



**ELEVATION**  
SCALE: 1"=30'

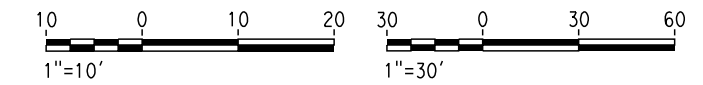


**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.
- LEGEND:
- ① CONCRETE BARRIER WITH AIR FENCE
  - ② AIR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASMENT OPENING
  - ④ MBGR
  - ⑤ RETAINING WALL, TO BE DETERMINED



\$USER \$ DATE \$ TIME \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. MORAN  
DRAWN BY  
D. BARNHART  
CHECKED BY  
M. AMINI  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

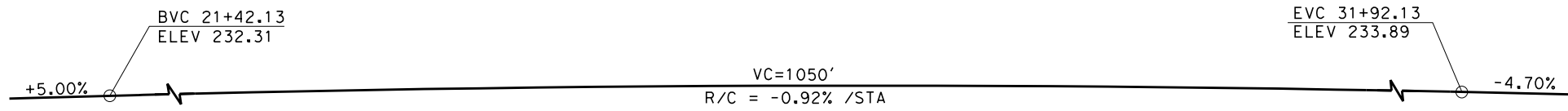
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**NOT FOR  
CONSTRUCTION**



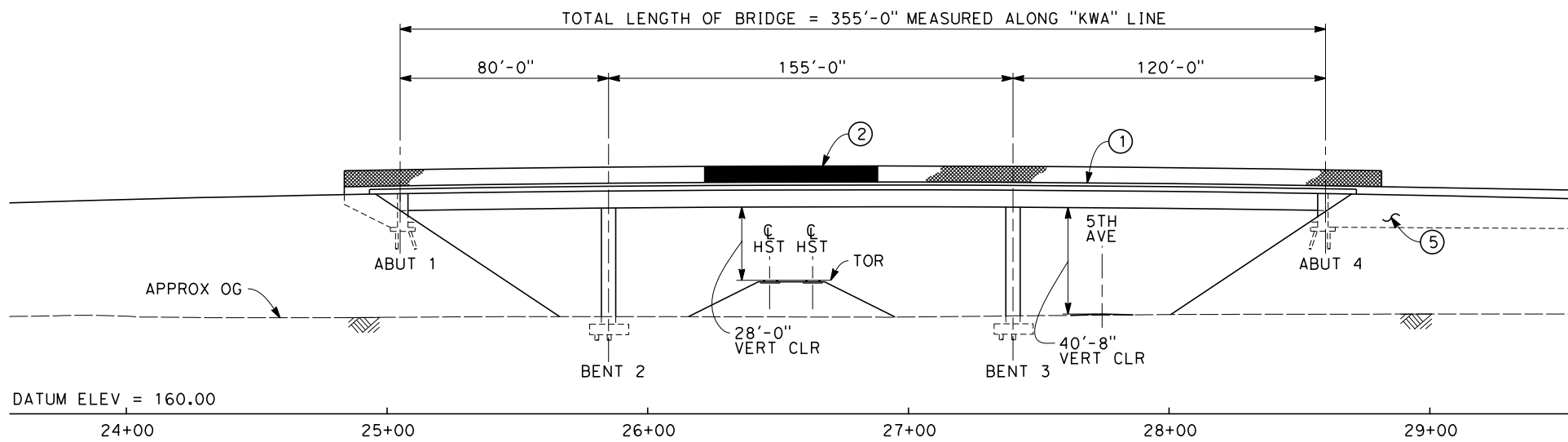
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
CORCORAN BYPASS SUBSECTION  
ALIGNMENT C2  
OVERHEAD PLANNING STUDY  
NEVADA AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2239  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 3





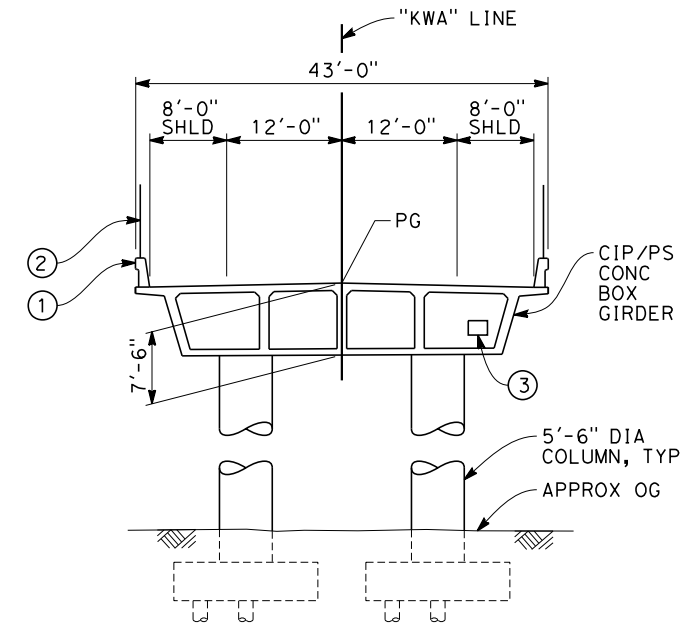
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NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



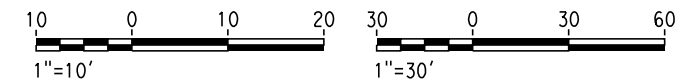
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL, TYPE TO BE DETERMINED



12/27/2013 10:21:32 AM c:\pwworking\hmm\external\pro3909\dms91105\FB-ST-2244-C2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. MORAN**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**M. AMINI**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
CORCORAN BYPASS SUBSECTION  
ALIGNMENT C2  
OVERHEAD PLANNING STUDY  
CORCORAN HWY

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2244

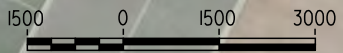
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SHEET NO.  
3 OF 3

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**LEGEND**  
 ---+---+ EXISTING FREIGHT RAILROAD  
 ——— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

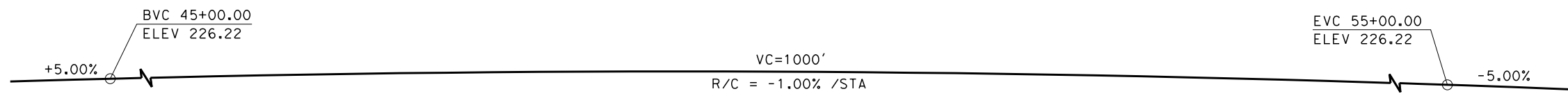
DESIGNED BY  
E. MORAN  
 DRAWN BY  
P. BARBER  
 CHECKED BY  
B. LUSCOMBE  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

**RECORD SET 15%  
 DESIGN SUBMISSION**  
**NOT FOR  
 CONSTRUCTION**

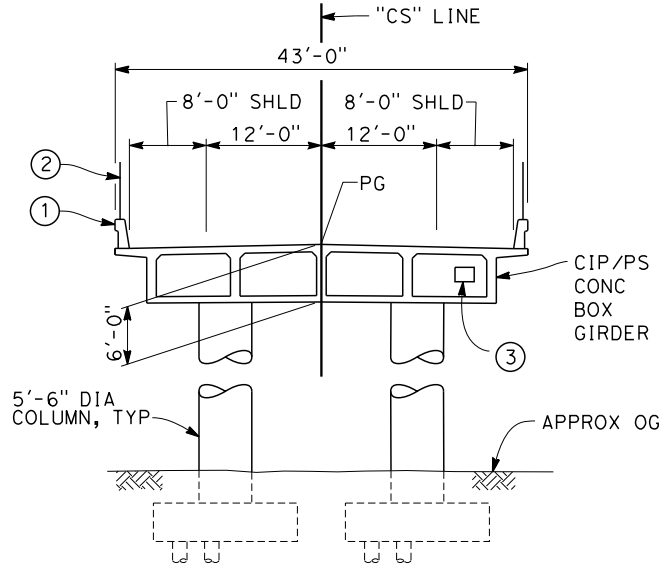
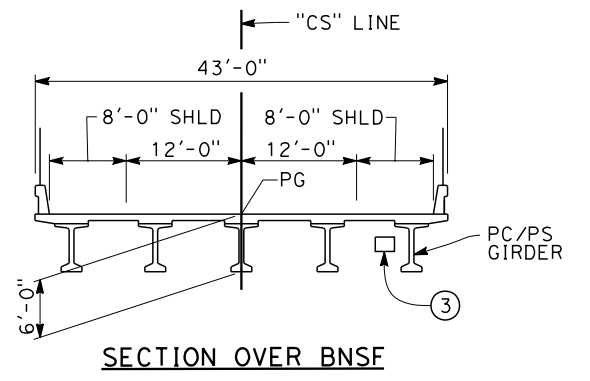


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 CORCORAN SUBSECTION  
 ALIGNMENT C3  
 OVERHEAD PLANNING STUDY  
 KEY MAP

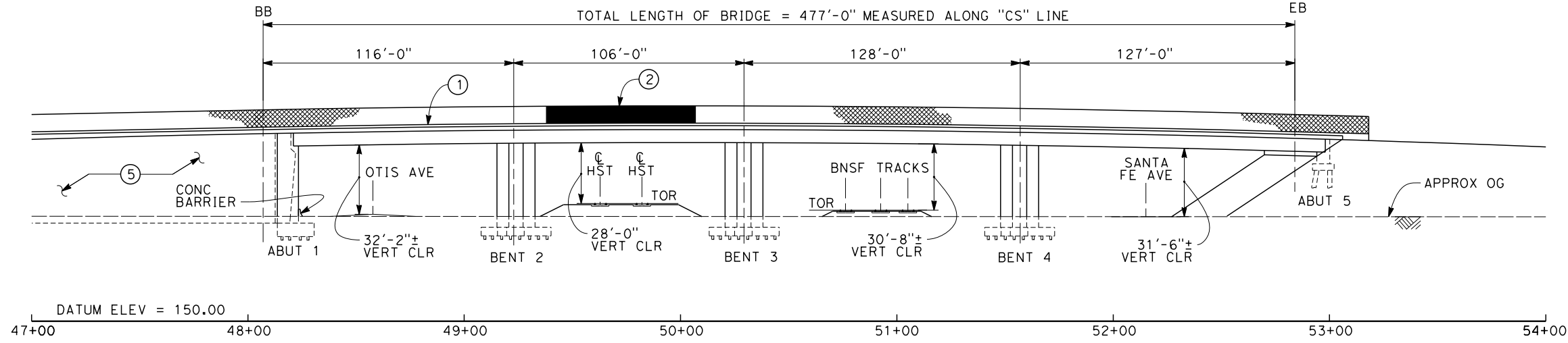
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 DRAWING NO.  
SB0080  
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AS SHOWN  
 SHEET NO.  
1 OF 4



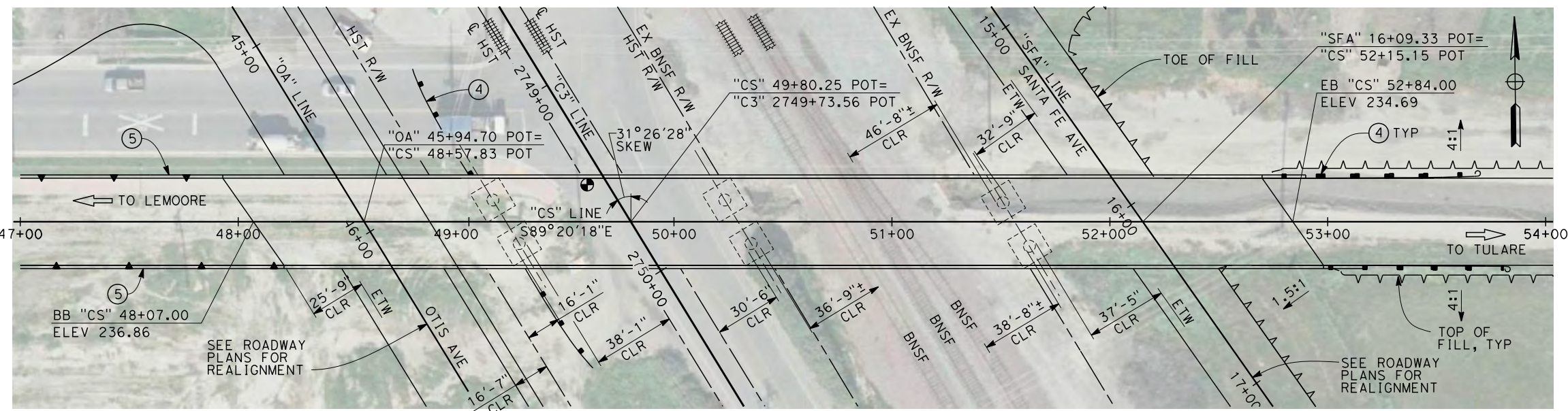
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NO SCALE



**TYPICAL SECTION**  
SCALE: 1"=10'



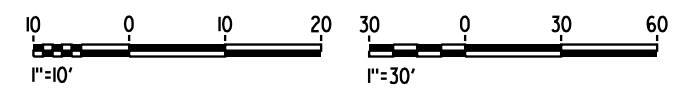
**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'

- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASUREMENT OPENING
  - ④ MBGR
  - ⑤ RETAINING WALL



12/27/2013 3:21:39 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\bar59603\dms92033\FB-ST-2271-C3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. MORAN  
DRAWN BY  
D. BARNHART  
CHECKED BY  
B. LUSCOMBE  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

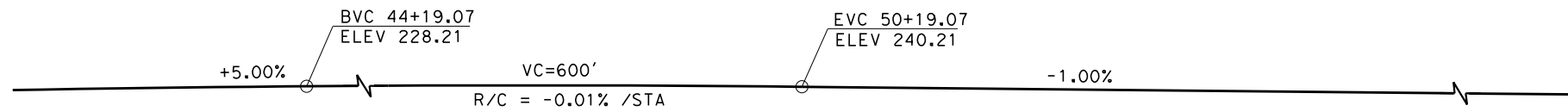
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CONSTRUCTION**



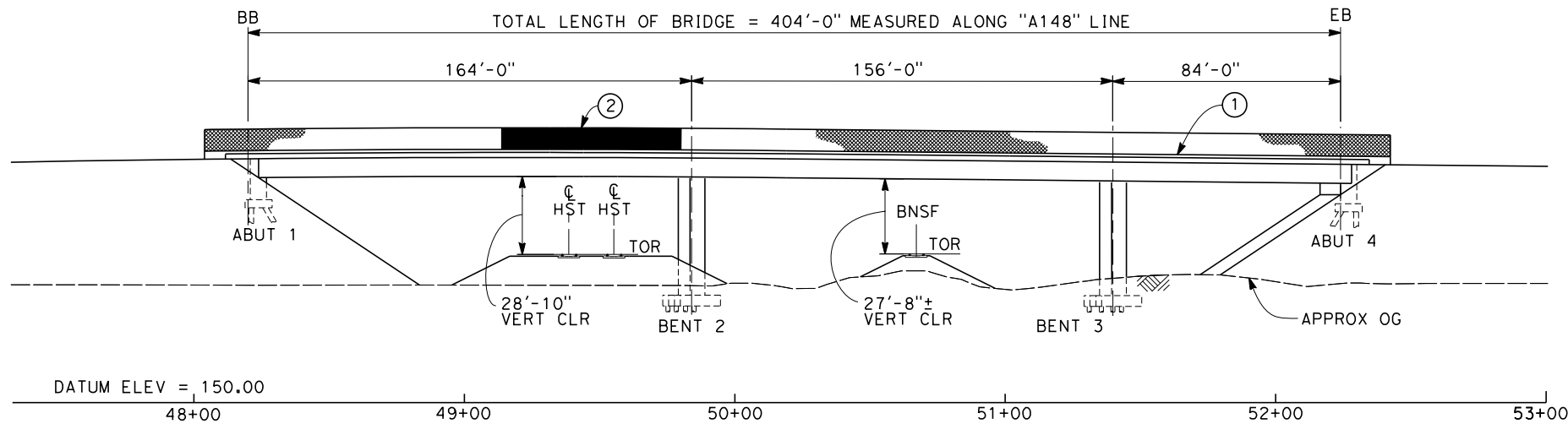
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
CORCORAN SUBSECTION  
ALIGNMENT C3  
OVERHEAD PLANNING STUDY  
CHARLES ST

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2271  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 4

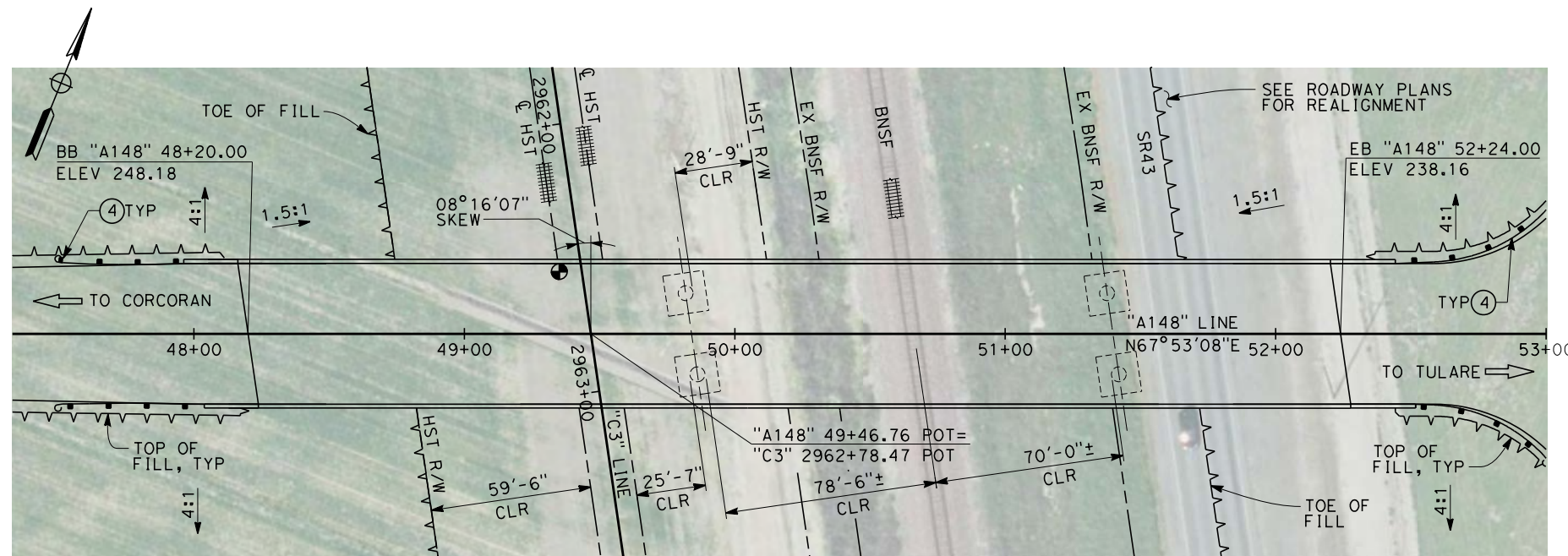
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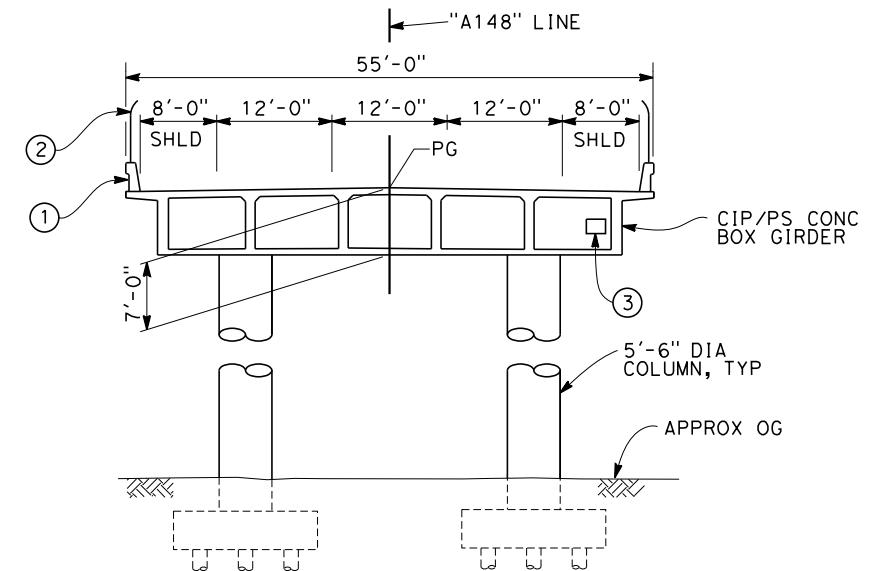
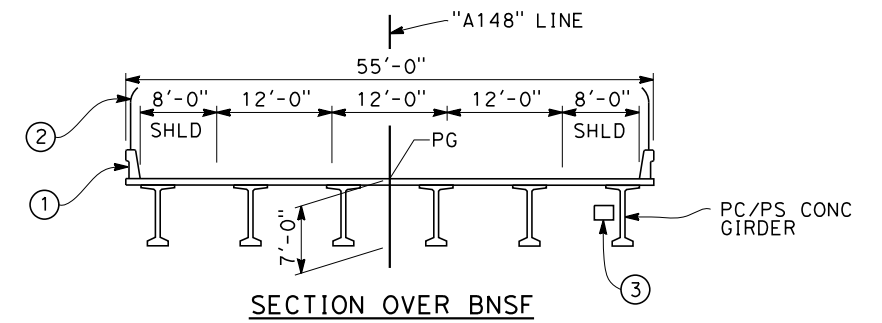
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



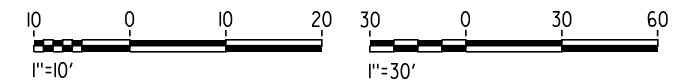
**TYPICAL SECTION**  
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. MORAN
DRAWN BY D. BARNHART
CHECKED BY B. LUSCOMBE
IN CHARGE R. COFFIN
DATE 12/31/13

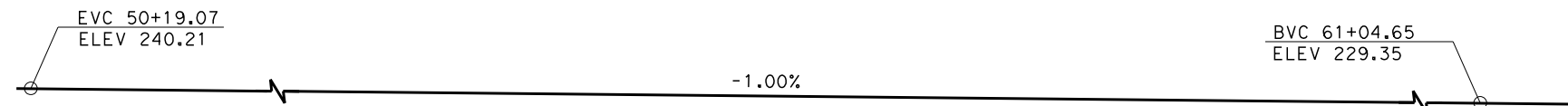
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DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

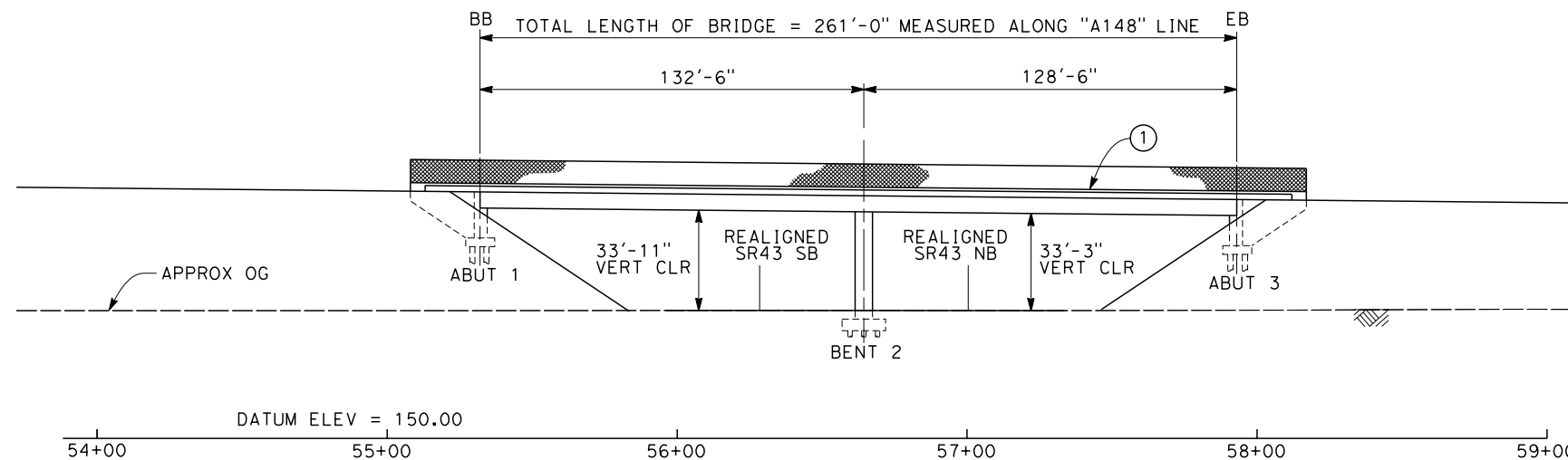


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
CORCORAN SUBSECTION  
ALIGNMENT C3  
OVERHEAD PLANNING STUDY  
AVE 148 WEST

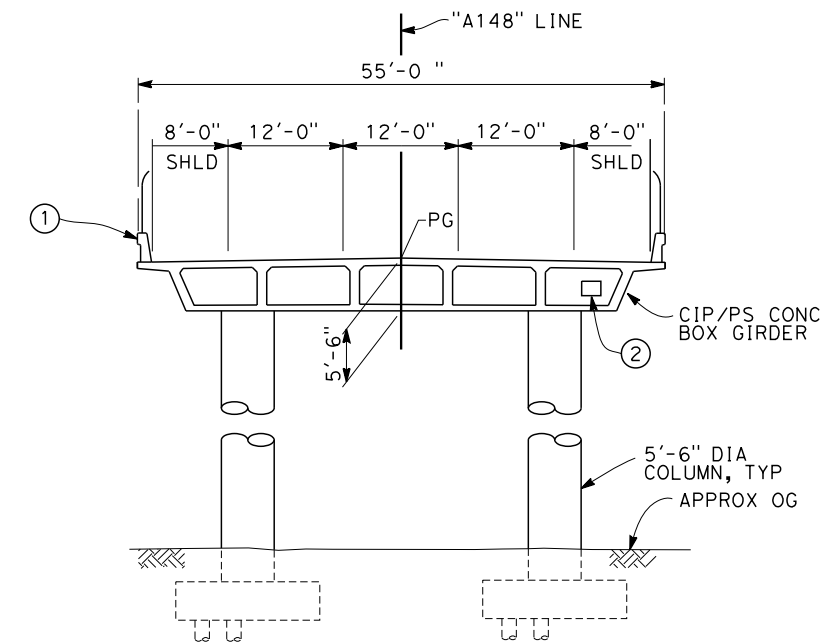
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DRAWING NO. ST2281
SCALE AS SHOWN
SHEET NO. 3 OF 4



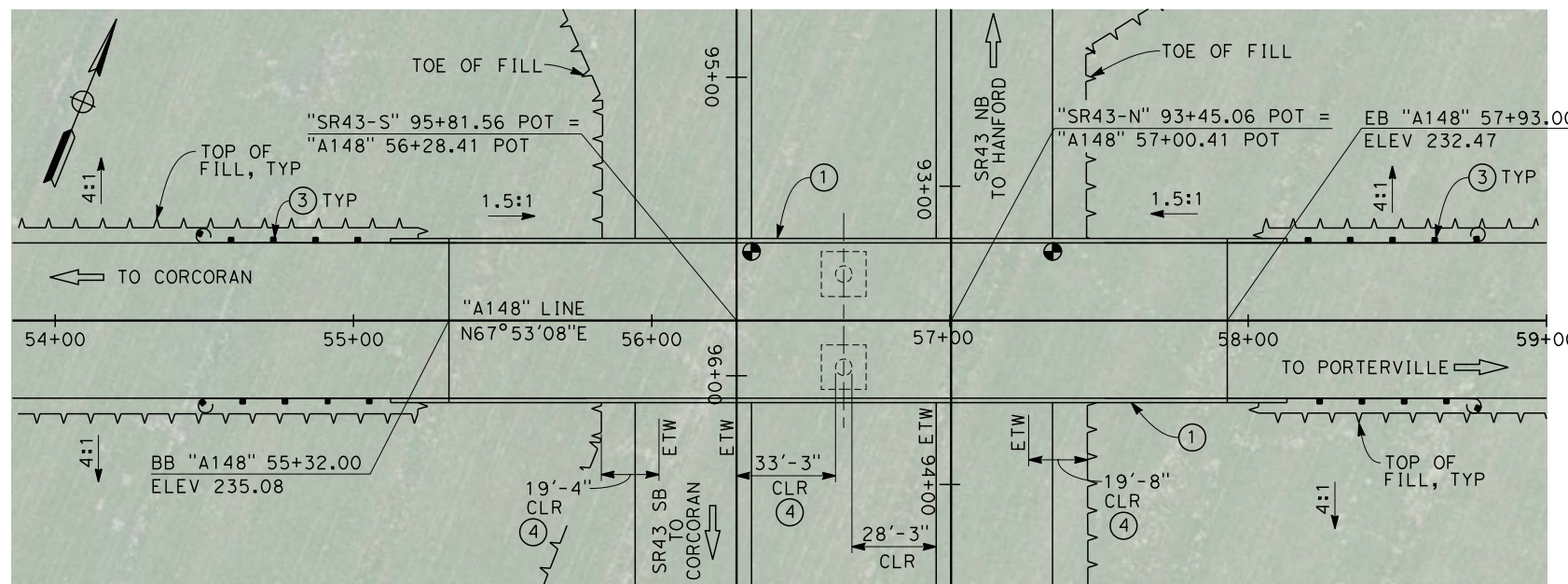
**PROFILE GRADE**  
NO SCALE



**ELEVATION**  
SCALE: 1"=30'



**TYPICAL SECTION**  
SCALE: 1"=10'



**PLAN**  
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AIR FENCE
- ② FUTURE UTILITY ENCASEMENT OPENING
- ③ MBGR
- ④ MINIMUM DISTANCE AND VARIES



12/26/2013 8:52:15 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_2013.dwg \\morrison\external\mor45030\dms92033\FB-ST-2282-C3.dgn MOR45030

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. MORAN  
DRAWN BY  
D. BARNHART  
CHECKED BY  
B. LUSCOMBE  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
CORCORAN SUBSECTION  
ALIGNMENT C3  
OVERHEAD PLANNING STUDY  
AVE 148 EAST

CONTRACT NO.  
HSR-06-0003  
DRAWING NO.  
ST2282  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 4

12/27/2013 11:40:53 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi\working\hmm\external\bar59603\dms95080\FB-SB-0090-P.dgn



**LEGEND**  
 ---+--- EXISTING FREIGHT RAILROAD  
 ——— PROPOSED CHST



**TULARE COUNTY**  
**KINGS COUNTY**

REV	DATE	BY	CHK	APP	DESCRIPTION

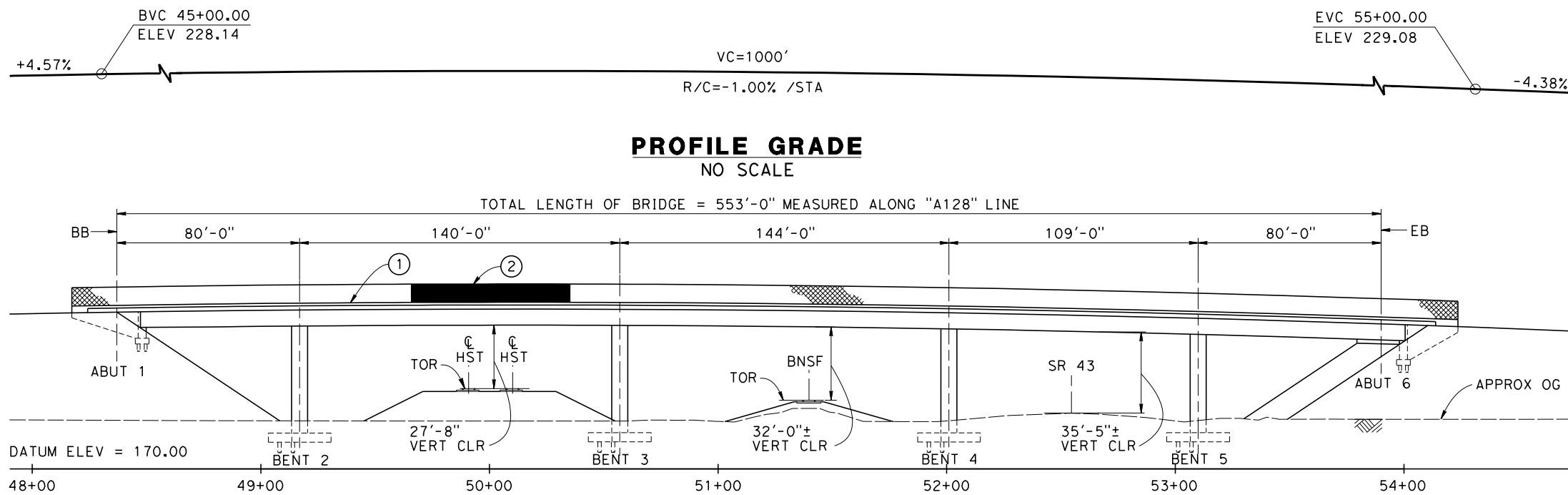
DESIGNED BY  
B. LUSCOMBE  
 DRAWN BY  
D. BARNHART  
 CHECKED BY  
E. MORAN  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



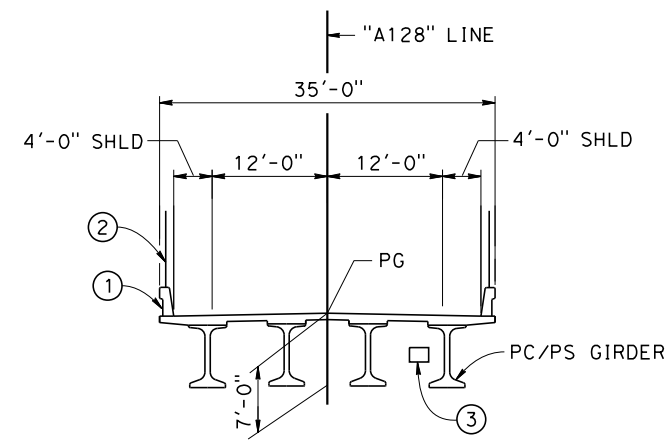
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 PIXLEY SUBSECTION  
 ALIGNMENT P  
 OVERHEAD PLANNING STUDY  
 KEY MAP

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
SB0090  
 SCALE  
AS SHOWN  
 SHEET NO.  
1 OF 5

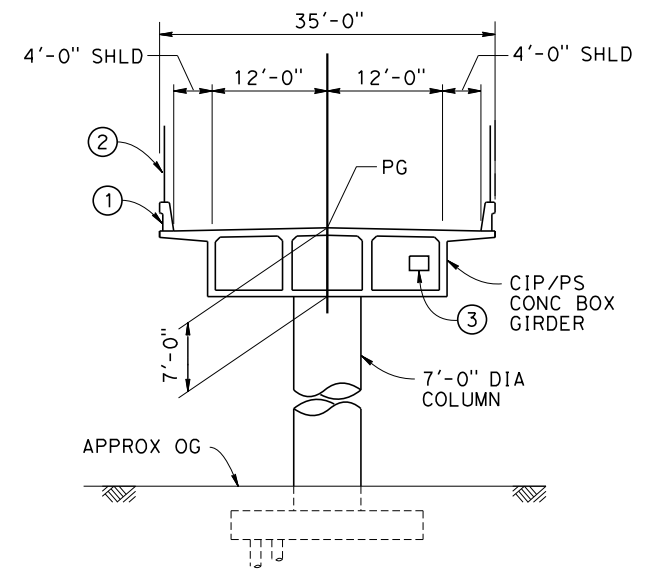


**PROFILE GRADE**  
NO SCALE

**ELEVATION**  
SCALE: 1"=30'



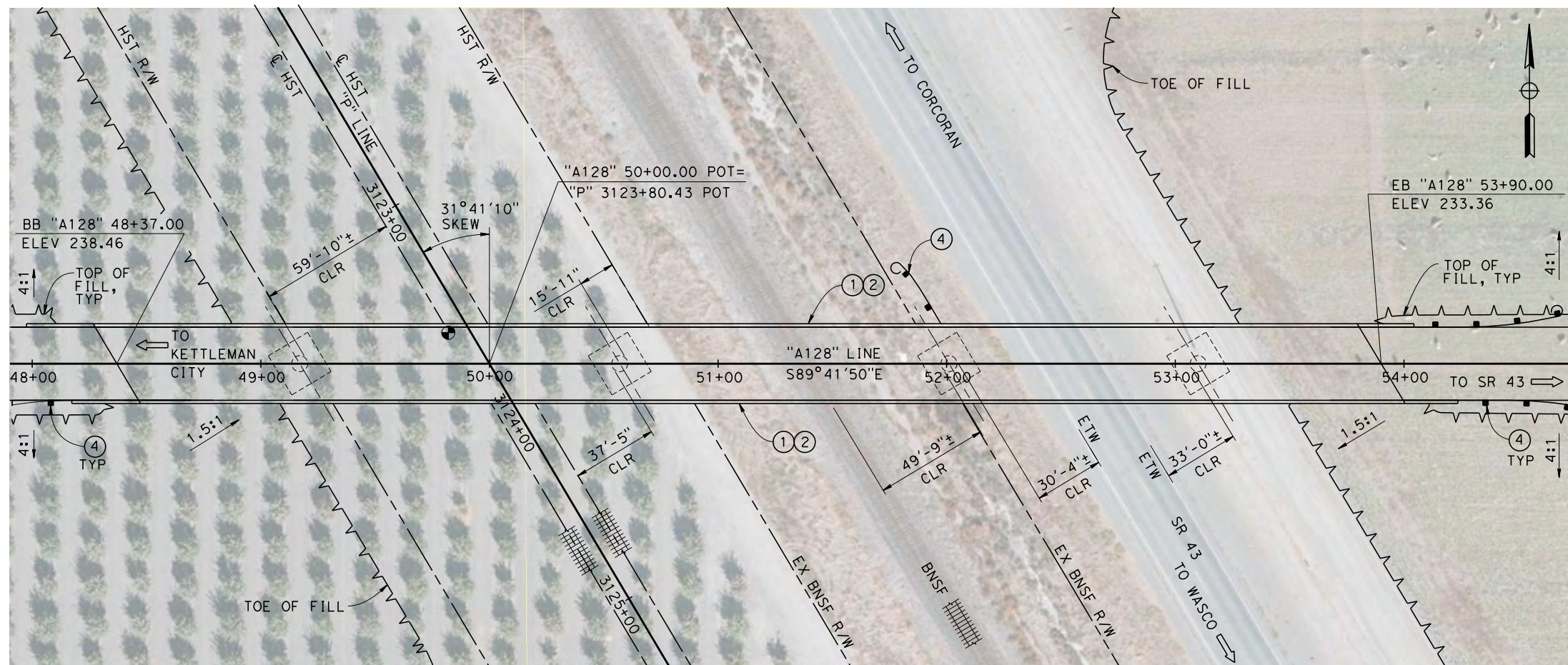
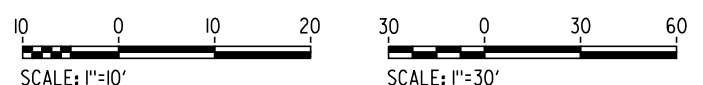
**SECTION OVER BNSF**



**TYPICAL SECTIONS**  
SCALE: 1"=10'

- NOTES:
- ALL PILES NOT SHOWN
  - FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASUREMENT OPENING
  - ④ MBGR



**PLAN**  
SCALE: 1"=30'

12/20/2013 10:48 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt c:\pwworking\hmm\external\bar50597\dms95080\FB-ST-2401-P.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**  
DRAWN BY  
**D. BARNHART**  
CHECKED BY  
**E. MORAN**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

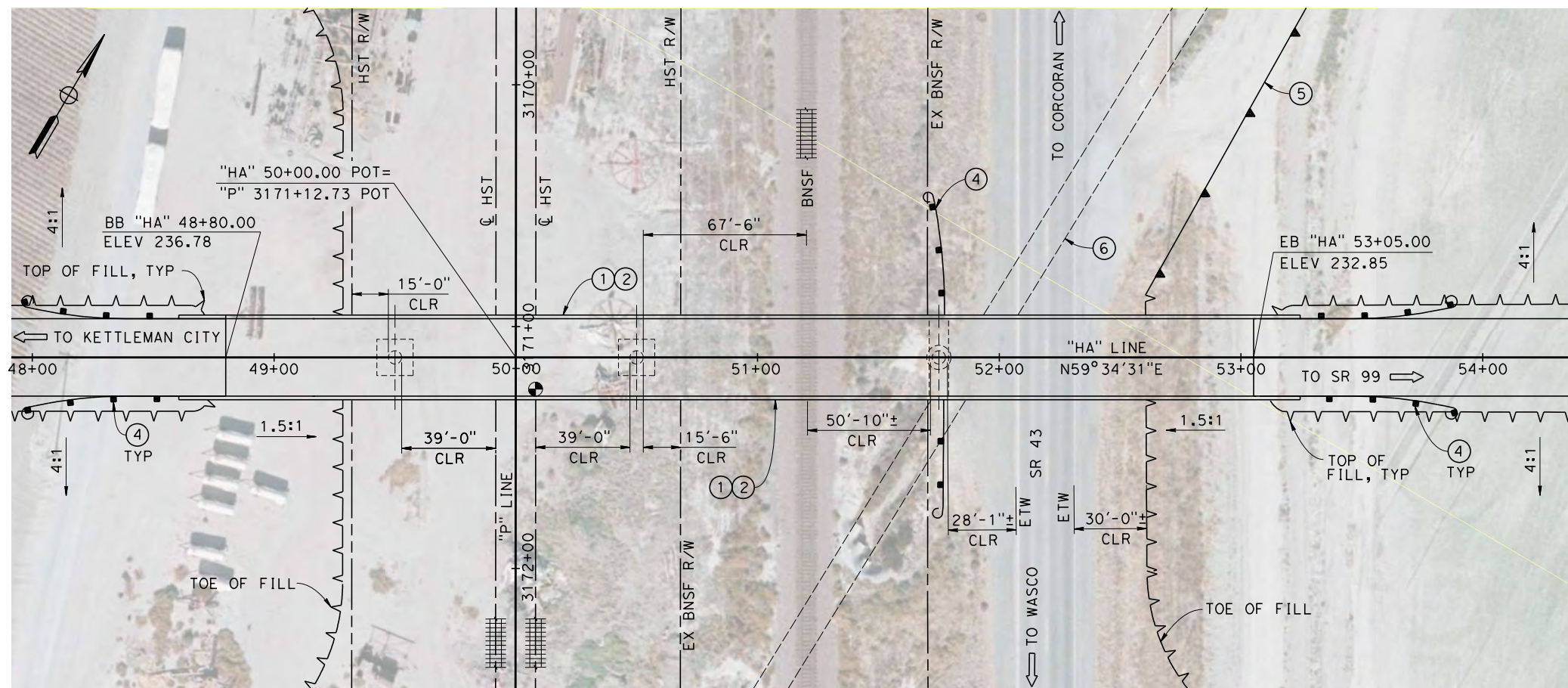
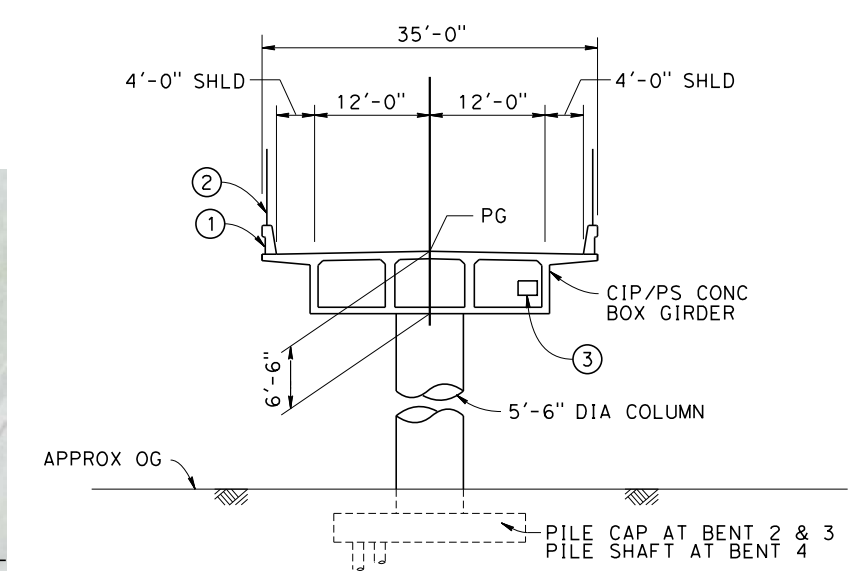
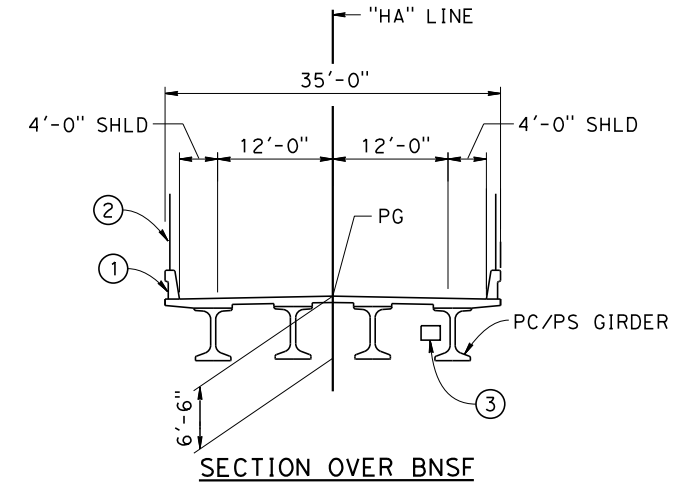
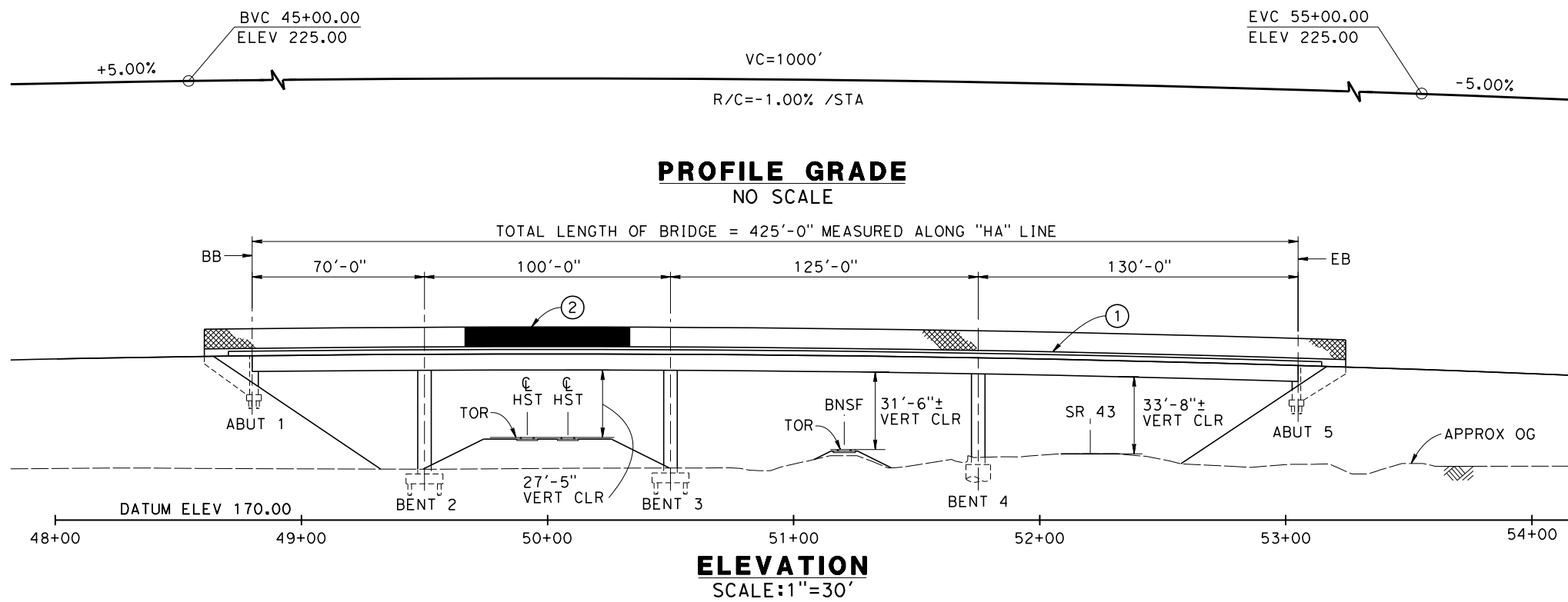
PIXLEY SUBSECTION  
ALIGNMENT P  
OVERHEAD PLANNING STUDY  
AVE 128

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2401

SCALE  
AS SHOWN

SHEET NO.  
2 OF 5



- TYPICAL SECTIONS**  
SCALE: 1"=10'
- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.
- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASUREMENT OPENING
  - ④ MBGR
  - ⑤ RETAINING WALL
  - ⑥ EXISTING CULVERT
- Scale bars:  
 10 0 10 20 SCALE: 1"=10'  
 30 0 30 60 SCALE: 1"=30'

12/23/2013 10:59:28 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt: \\pwworking\hmm\external\bar50597\dms95080\FB-ST-2411-P.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**B. LUSCOMBE**

DRAWN BY  
**D. BARNHART**

CHECKED BY  
**E. MORAN**

IN CHARGE  
**R. COFFIN**

DATE  
**12/31/13**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

PIXLEY SUBSECTION  
ALIGNMENT P  
OVERHEAD PLANNING STUDY  
HESSE AVE

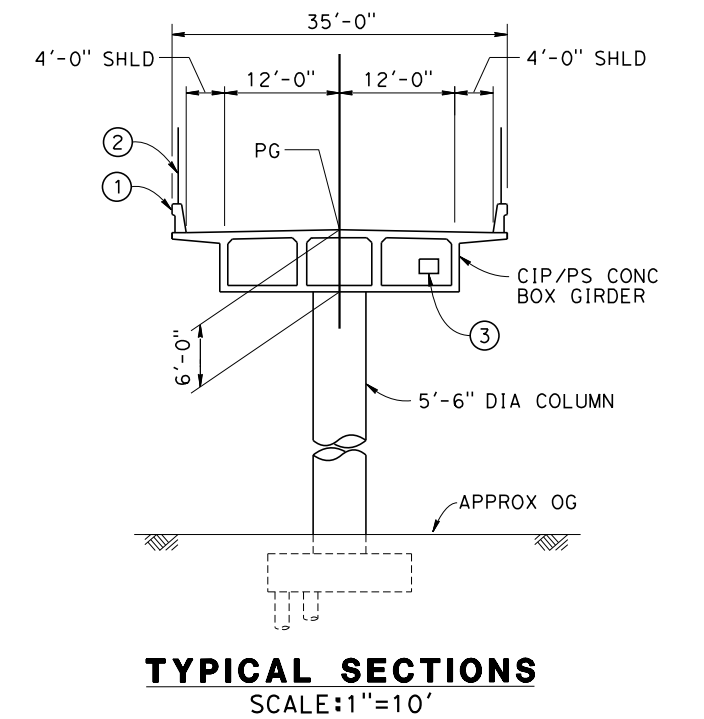
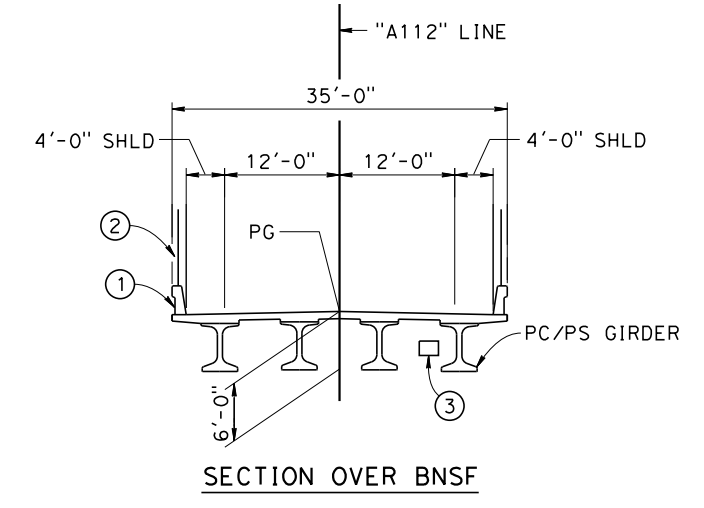
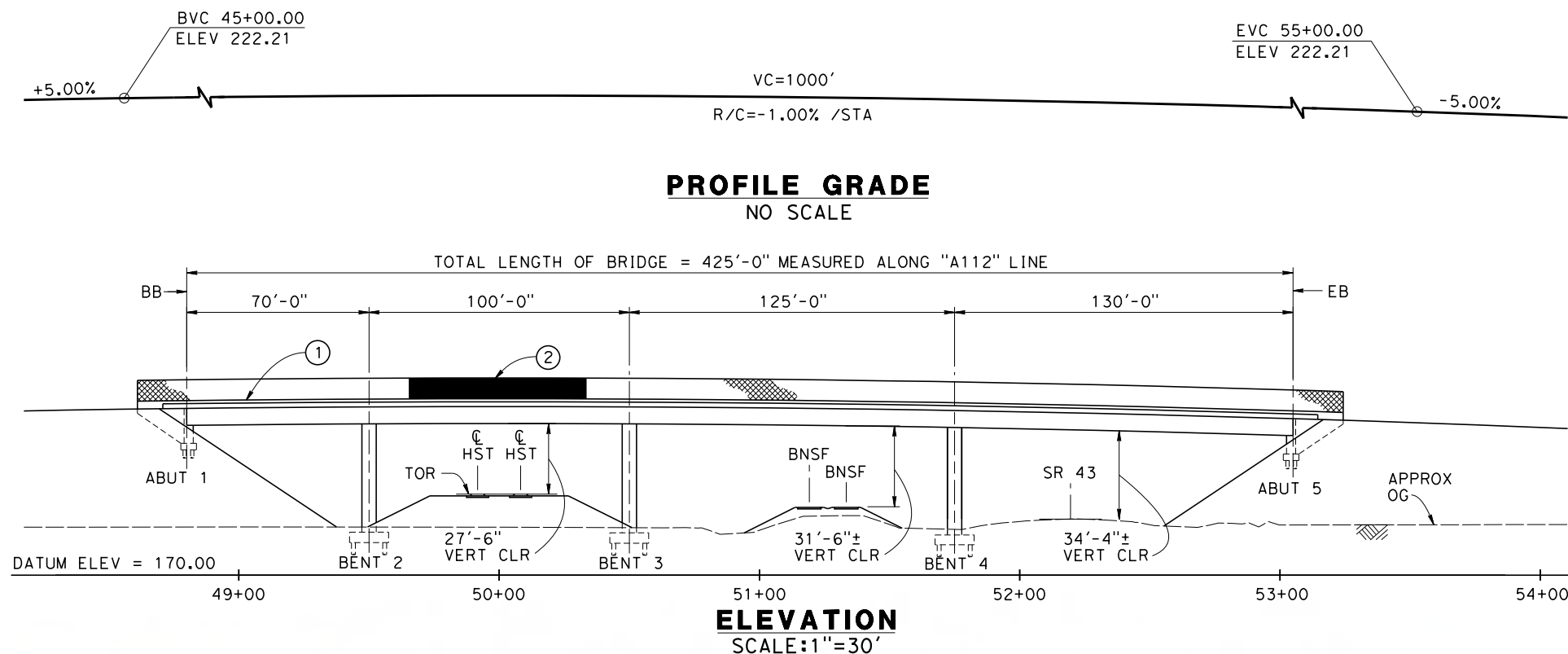
CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
ST2411

SCALE  
AS SHOWN

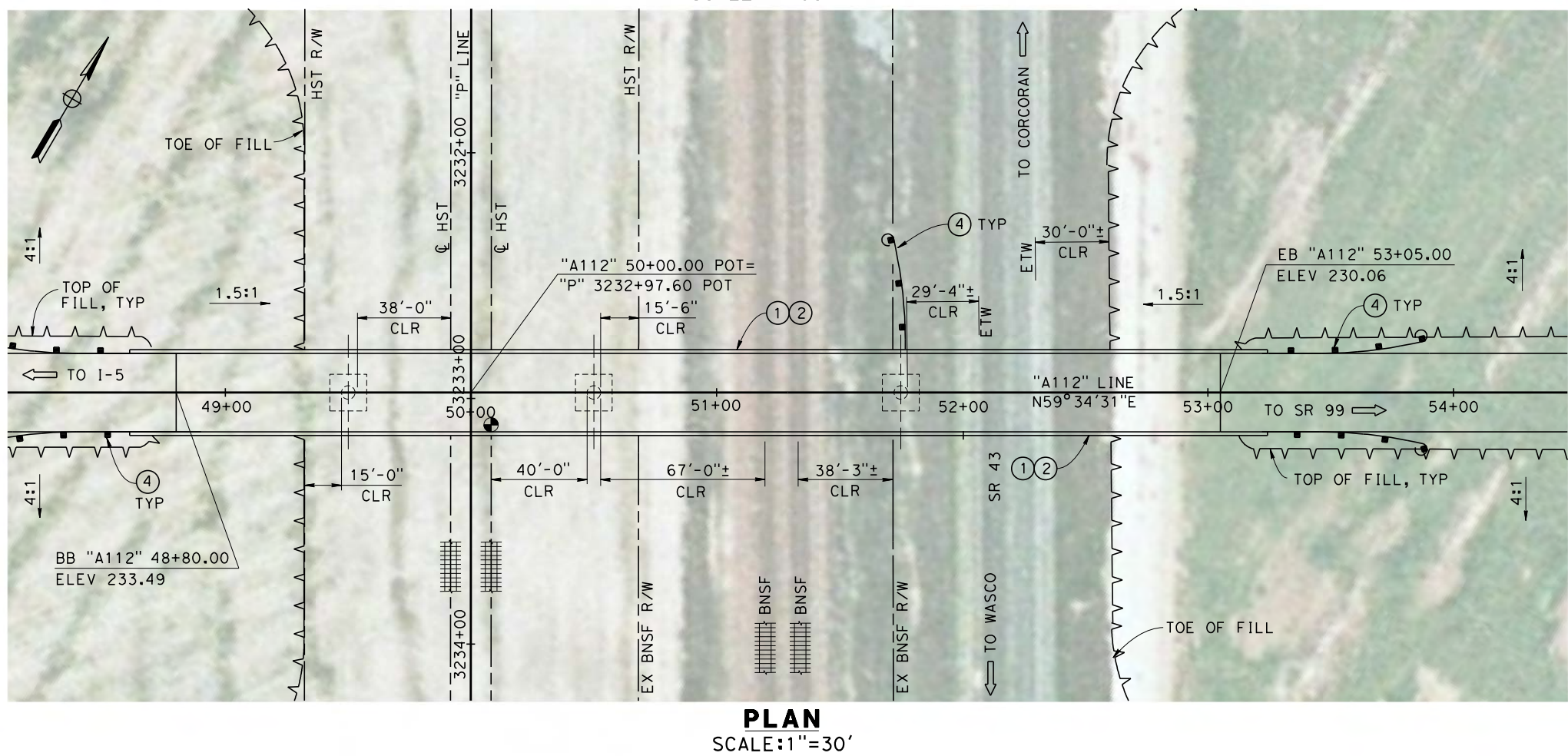
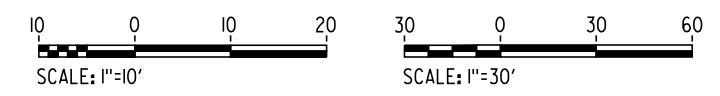
SHEET NO.  
3 OF 5





- NOTES:
1. ALL PILES NOT SHOWN
  2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

- LEGEND:
- ① CONCRETE BARRIER WITH AR FENCE
  - ② AR FENCE WITH SOLID PLATE OVER HST
  - ③ FUTURE UTILITY ENCASEMENT OPENING
  - ④ MBGR



12/20/2013 8:04:15 AM CAHSR-r1.tbl CHSR\_PDF\_half\_black.plt:lpworking\mm\external\bar50597\dms95080\FB-ST-2421-P.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
B. LUSCOMBE  
DRAWN BY  
D. BARNHART  
CHECKED BY  
E. MORAN  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

PIXLEY SUBSECTION  
ALIGNMENT P  
OVERHEAD PLANNING STUDY  
AVE 112

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
ST2421  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 5