

STREET CLOSURE

| STREET NAME | HST ALIGNMENT STA | LOCAL STANDARD |
|-------------|-------------------|----------------|
| JERSEY AVE | 2227+50.00 | KINGS COUNTY |
| LANSING AVE | 2395+00.00 | KINGS COUNTY |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0060
SCALE
AS SHOWN
SHEET NO.
1 OF 27

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°43'34" E | 3600.00' |

IDAHO AVE

"KID" 10+00.00 PI
CONFORM

ROADWAY ROW

DRAINAGE DITCH (TYP)

LIMIT OF DITCH
LIMIT OF DITCH
TOE OF FILL

1

"K3" 2119+06.63 POC =
"KID" 28+02.74 POT

"KID" LINE

BB

MBGR
(TYP)

ROADWAY ROW

LIMIT OF DITCH
TOE OF FILL
LIMIT OF DITCH

CULVERT

CANAL
REALIGNMENT

2110+00

2115+00

2120+00

2125+00

HST ROW

"K3" LINE

ROADWAY ROW

LIMIT OF DITCH

LIMIT OF DITCH
TOE OF FILL

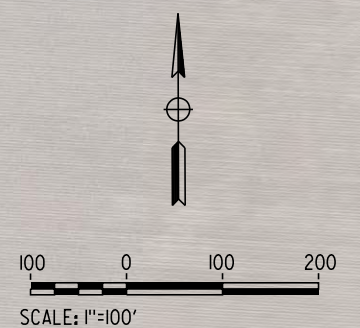
MATCH LINE - SEE CT1202

EB

LIMIT OF DITCH
TOE OF FILL

LIMIT OF DITCH

CANAL
REALIGNMENT
ROADWAY ROW



c:\pwworking\hmm\external\alton.cannon-arup.com\d0125943\FB-CT-1201-K3.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

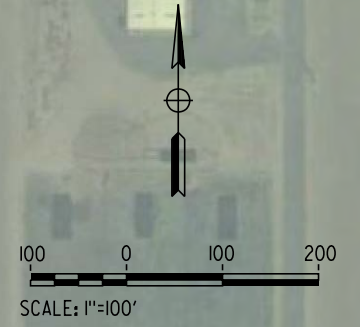
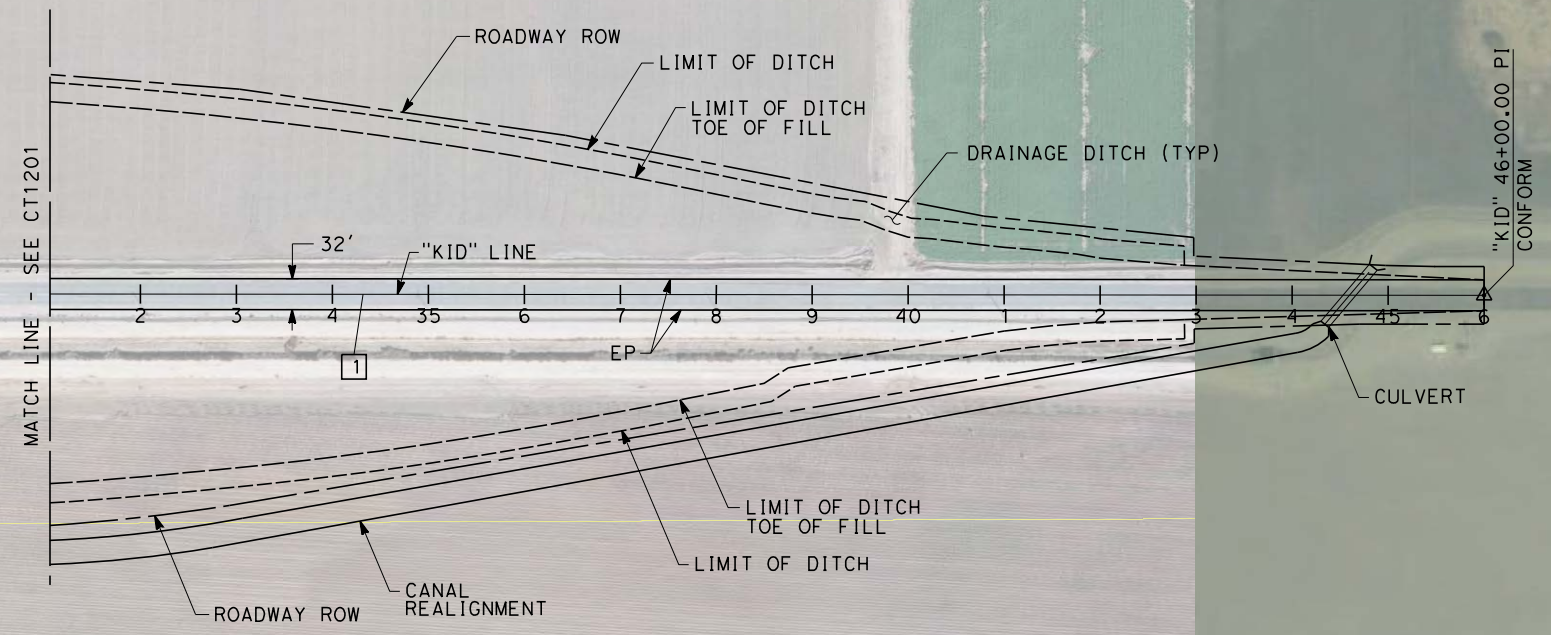


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1201
SCALE
AS SHOWN
SHEET NO.
2 OF 27

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°43'34" E | 3600.00' |



c:\pwworking\hmm\external\alton.cannon-arup.com\d0125943\FB-CT-1202-K3.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
GRADE SEPARATION LAYOUT
IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1202
SCALE
AS SHOWN
SHEET NO.
3 OF 27

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-----------------|----------|
| 1 | S 89° 41' 46" E | 3600.00' |



\$USER \$ DATE \$ TIME \$ \$FILES \$

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 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
 GRADE SEPARATION LAYOUT
 JACKSON AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT1203
 SCALE
AS SHOWN
 SHEET NO.
4 OF 27

| LINE DATA | | |
|-----------|---------------|----------|
| NO. | BEARING | DISTANCE |
| 1 | S 89°41'46" E | 3600.00' |

c:\pwworking\hmm\external\alton.cannon-arup.com\d0125943\FB-CT-1204-K3.dgn



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
GRADE SEPARATION LAYOUT
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1204
SCALE
AS SHOWN
SHEET NO.
5 OF 27

| LINE DATA | | |
|-----------|---------------|----------|
| NO. | BEARING | DISTANCE |
| 1 | S 00°27'06" W | 3900.00' |



c:\pwworking\hmm\external\alton.cannon-arup.com\d0125943\FB-CT-1205-K3.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



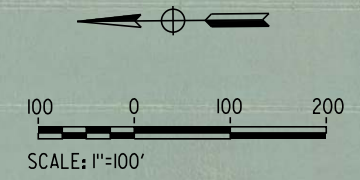
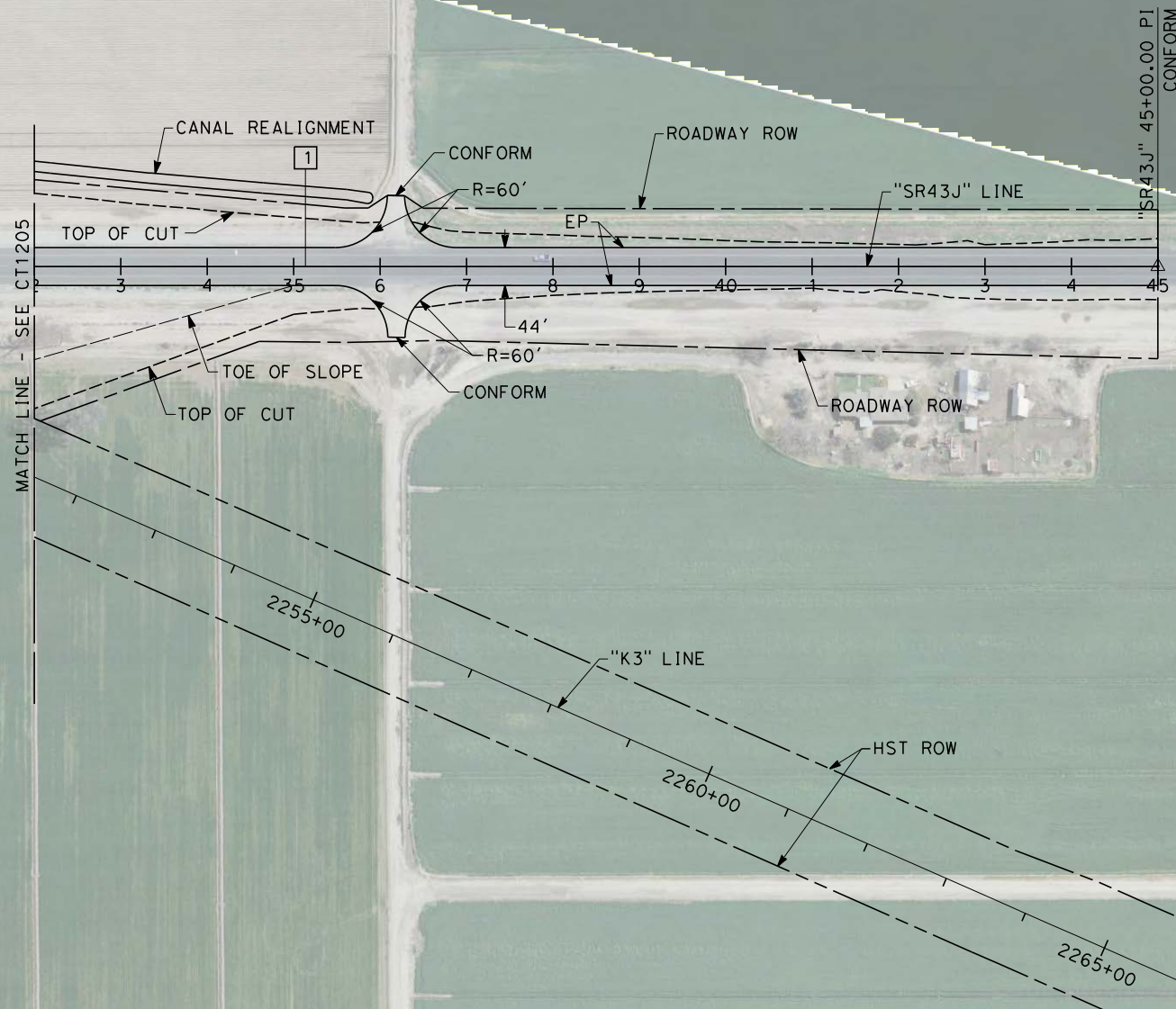
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
STATE ROUTE 43 (JERSEY AVE)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1205
SCALE
AS SHOWN
SHEET NO.
6 OF 27

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 00°27'06" W | 3900.00' |



c:\pwworking\hmm\external\alton.cannon-arup.com\d0125943\FB-CT-1206-K3.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
GRADE SEPARATION LAYOUT
STATE ROUTE 43 (JERSEY AVE)

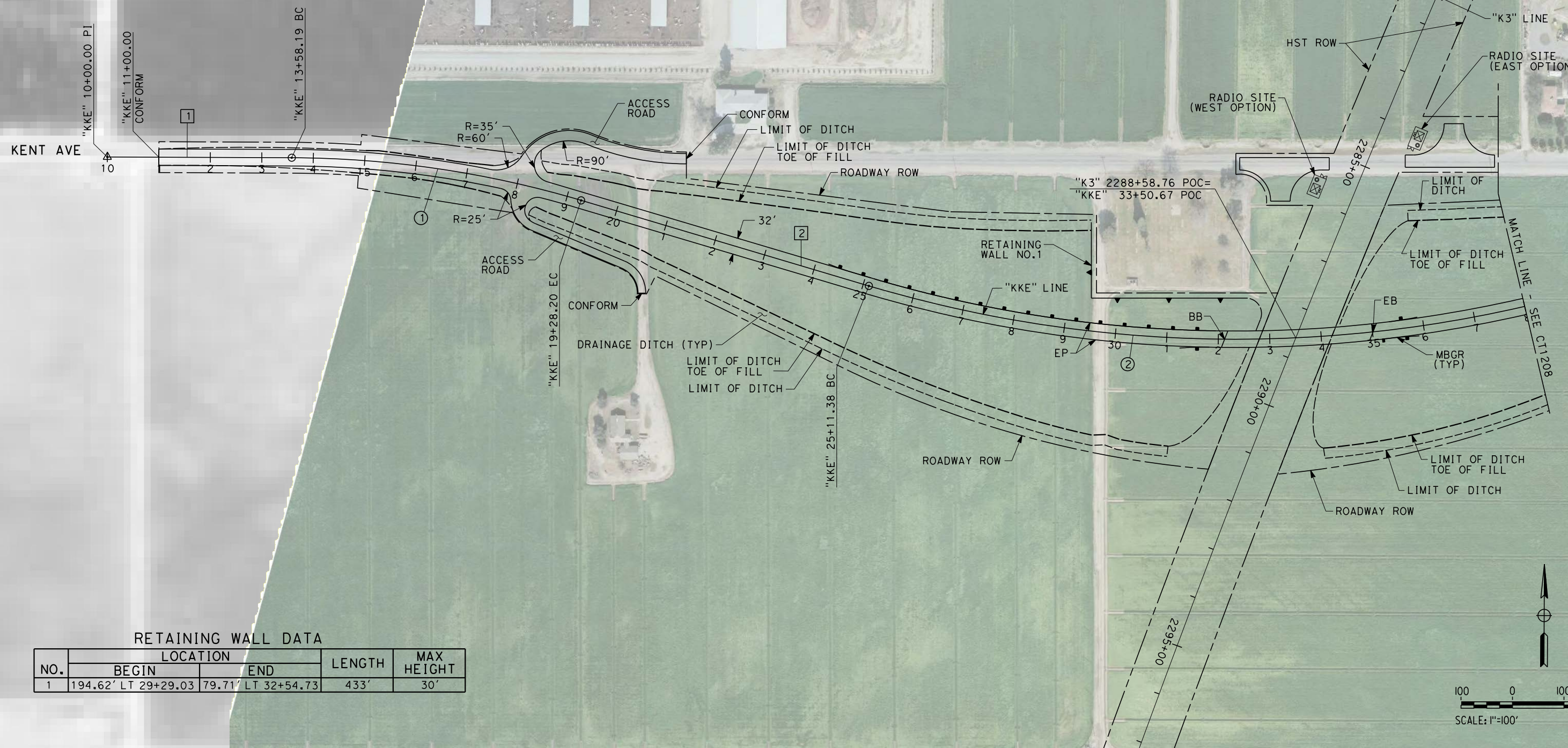
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1206
SCALE
AS SHOWN
SHEET NO.
7 OF 27

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°46'22" E | 358.19' |
| 2 | S 73°26'35" E | 583.18' |

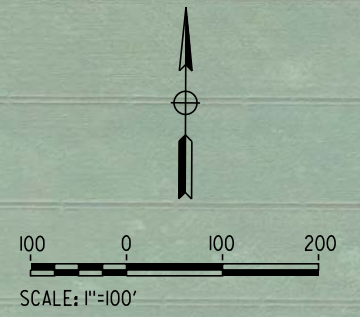
CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|----------|
| ① | 2000.00' | 16°19'46" | 286.95' | 570.01' |
| ② | 2500.00' | 40°19'05" | 917.79' | 1759.21' |



RETAINING WALL DATA

| NO. | LOCATION | | LENGTH | MAX HEIGHT |
|-----|---------------------|--------------------|--------|------------|
| | BEGIN | END | | |
| 1 | 194.62' LT 29+29.03 | 79.71' LT 32+54.73 | 433' | 30' |



c:\pwworking\hmm\external\alton.cannon-arup.com\d0125943\FB-CT-1207-K3.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
GRADE SEPARATION LAYOUT
KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1207
SCALE
AS SHOWN
SHEET NO.
8 OF 27

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 3 | S 89°46'22" E | 201.39' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|----------|
| ② | 2500.00' | 40°19'05" | 917.79' | 1759.21' |
| ③ | 1500.00' | 23°59'19" | 318.68' | 628.02' |

c:\pwworking\hmm\external\alton.cannon-arup.com\d0125943\FB-CT-1208-K3.dgn



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
GRADE SEPARATION LAYOUT
KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1208
SCALE
AS SHOWN
SHEET NO.
9 OF 27

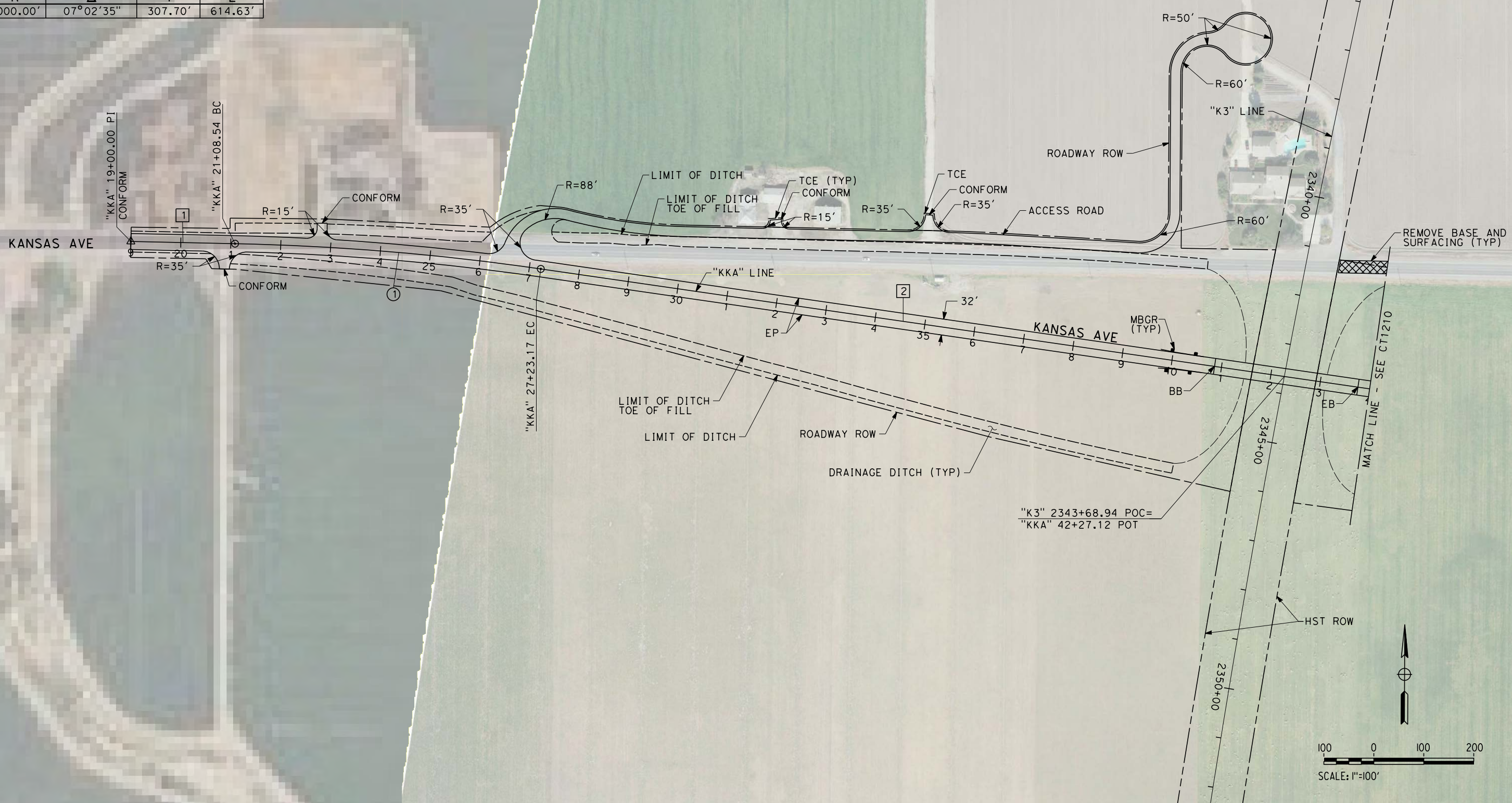
LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 88°48'29" E | 208.54' |
| 2 | S 81°45'53" E | 2295.80' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| (1) | 5000.00' | 07°02'35" | 307.70' | 614.63' |

c:\pwworking\hmm\external\alton.cannon-arup.com\d0125943\FB-CT-1209-K3.dgn



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
GRADE SEPARATION LAYOUT
KANSAS AVE

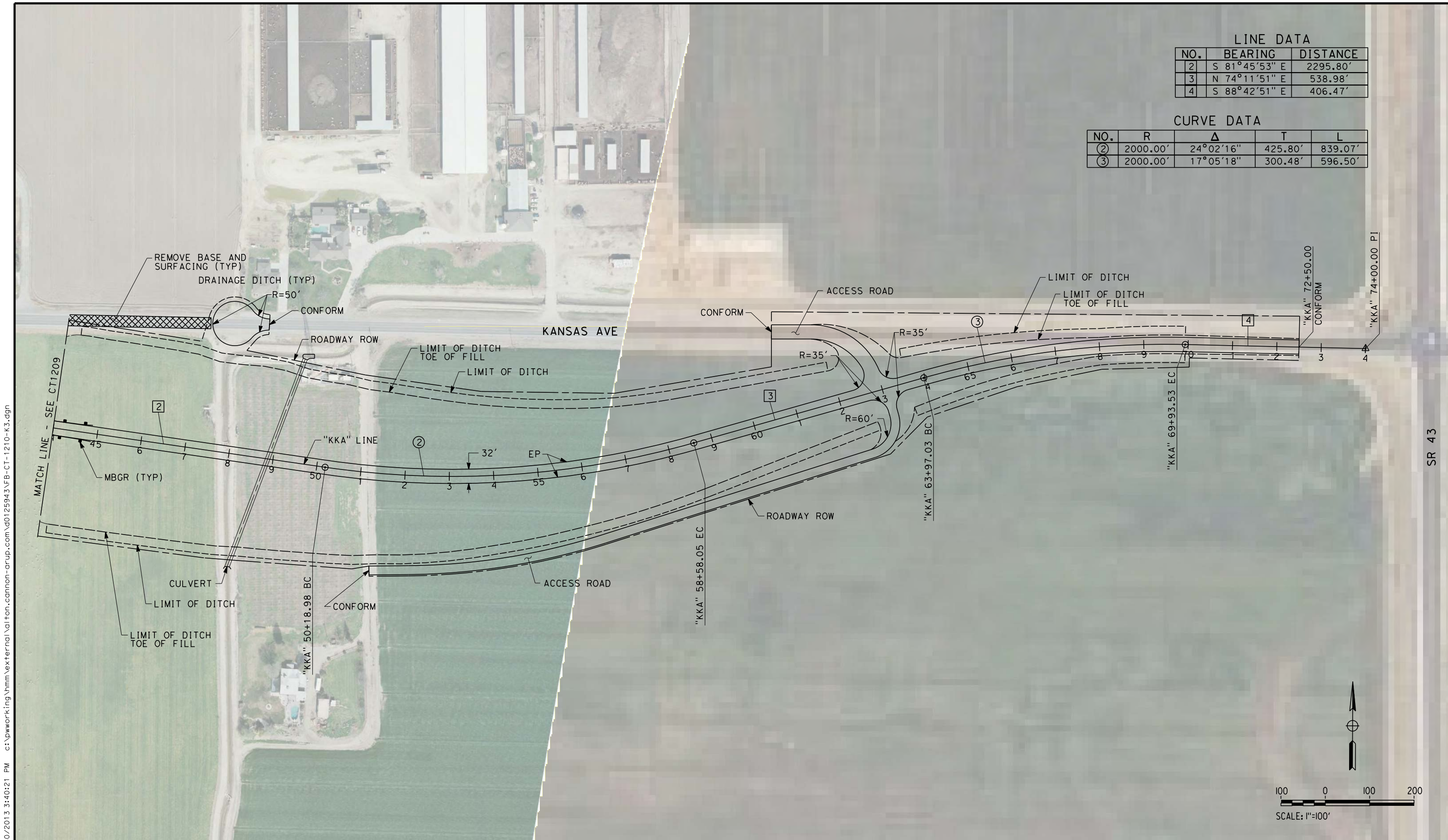
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1209
SCALE
AS SHOWN
SHEET NO.
10 OF 27

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 2 | S 81°45'53" E | 2295.80' |
| 3 | N 74°11'51" E | 538.98' |
| 4 | S 88°42'51" E | 406.47' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| ② | 2000.00' | 24°02'16" | 425.80' | 839.07' |
| ③ | 2000.00' | 17°05'18" | 300.48' | 596.50' |



c:\pwworking\hmm\external\alton.cannon-ar-up.com\d0125943\FB-CT-1210-K3.dgn 12/30/2013 3:40:21 PM alton.cannon

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
GRADE SEPARATION LAYOUT
KANSAS AVE

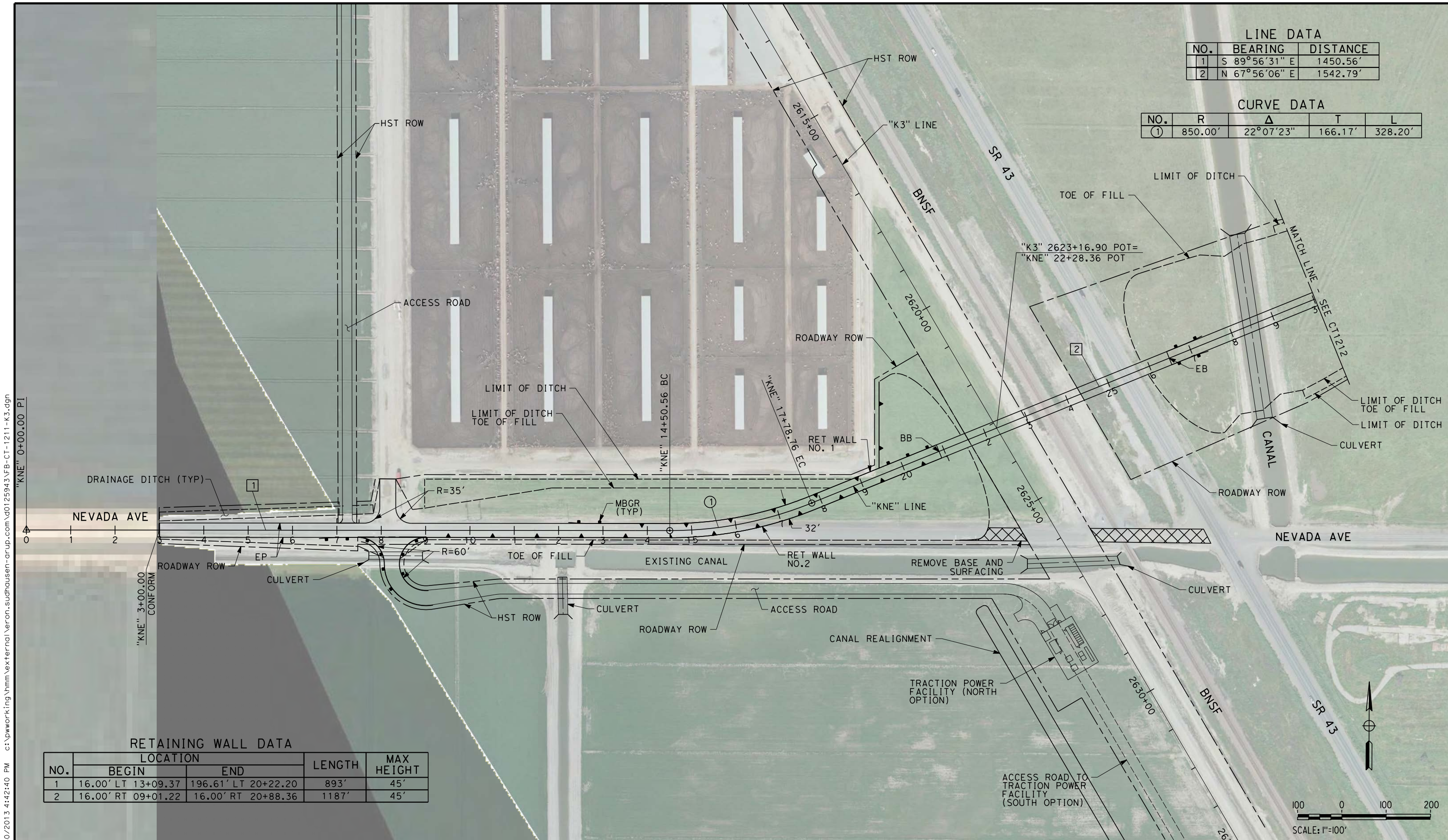
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1210
SCALE
AS SHOWN
SHEET NO.
11 OF 27

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°56'31" E | 1450.56' |
| 2 | N 67°56'06" E | 1542.79' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|---------|-----------|---------|---------|
| ① | 850.00' | 22°07'23" | 166.17' | 328.20' |



RETAINING WALL DATA

| NO. | LOCATION | | LENGTH | MAX HEIGHT |
|-----|--------------------|---------------------|--------|------------|
| | BEGIN | END | | |
| 1 | 16.00' LT 13+09.37 | 196.61' LT 20+22.20 | 893' | 45' |
| 2 | 16.00' RT 09+01.22 | 16.00' RT 20+88.36 | 1187' | 45' |

eron_sudhausen 12/30/2013 4:42:40 PM c:\pwworking\hmm\external\eron_sudhausen-arup.com\d0125943\FB-CT-1211-K3.dgn
 "KNE" 0+00.00 PI
 "KNE" 3+00.00 CONFORM

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 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
 GRADE SEPARATION LAYOUT
 NEVADA AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT1211
 SCALE
AS SHOWN
 SHEET NO.
12 OF 27

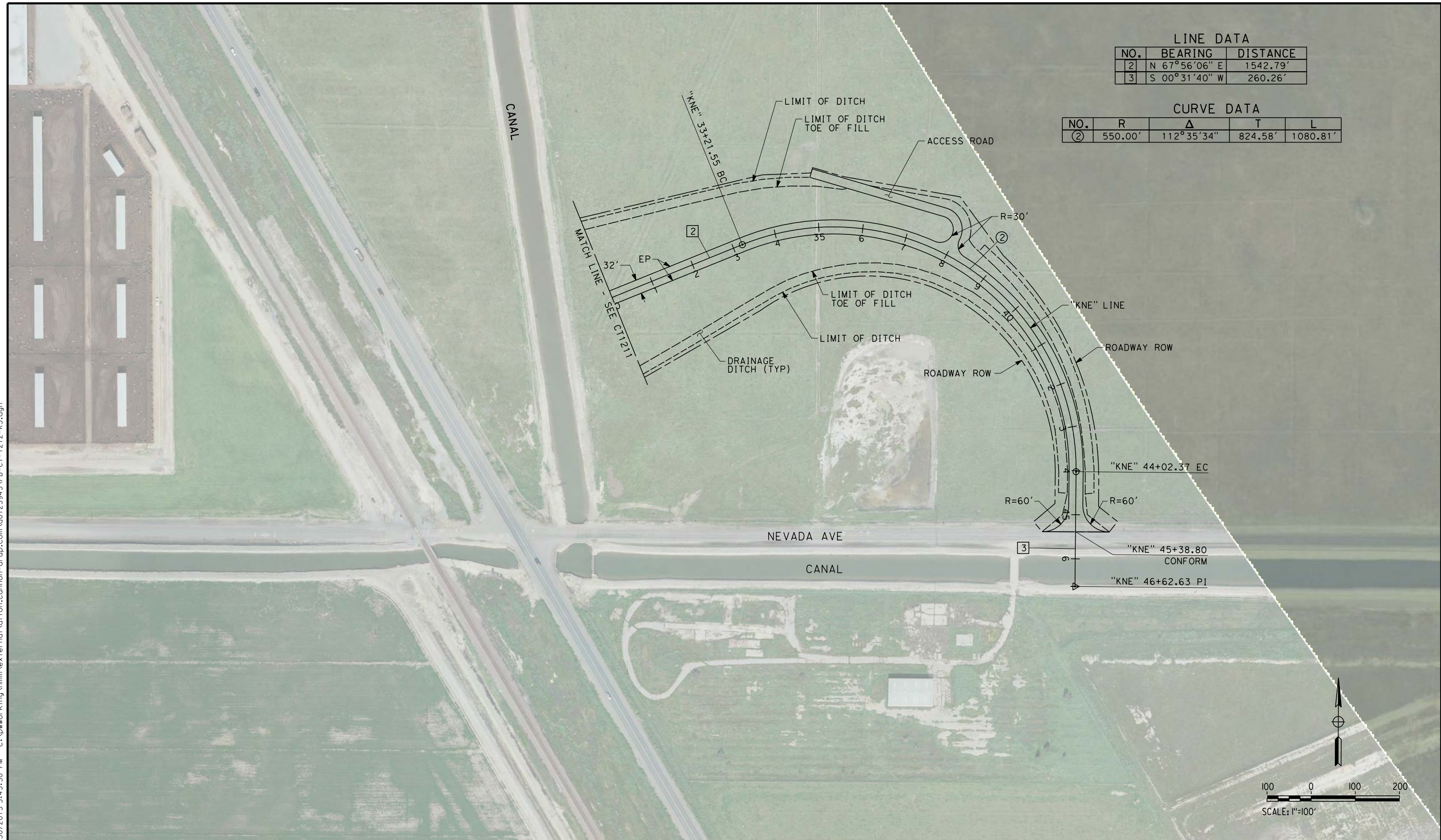
c:\pwworking\hmm\external\alton.cannon-ar-up.com\d0125943\FB-CT-1212-K3.dgn

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 2 | N 67°56'06" E | 1542.79' |
| 3 | S 00°31'40" W | 260.26' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|---------|------------|---------|----------|
| ② | 550.00' | 112°35'34" | 824.58' | 1080.81' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

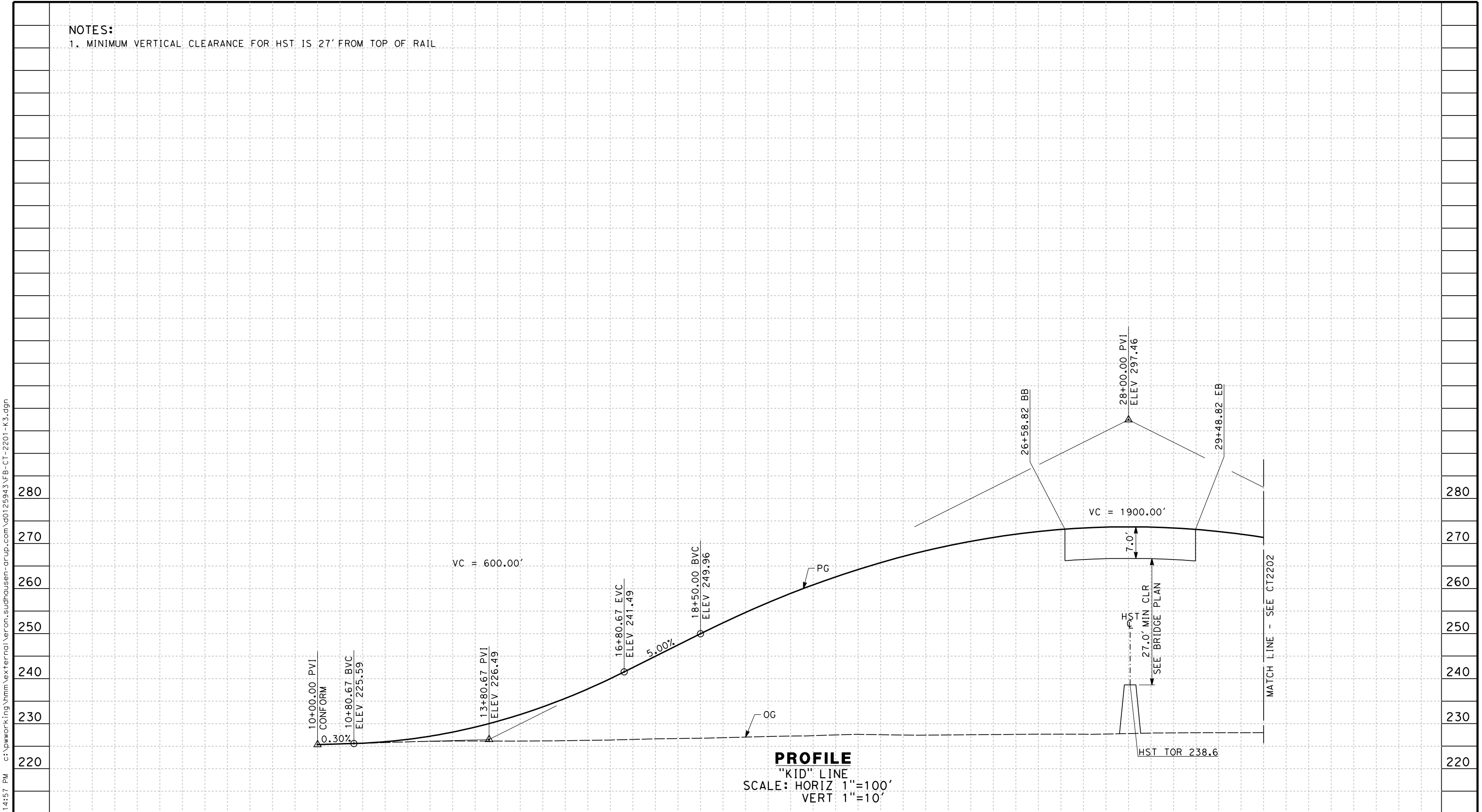


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION LAYOUT
NEVADA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1212
SCALE
AS SHOWN
SHEET NO.
13 OF 27

NOTES:
 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL

c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125943\FB-CT-2201-K3.dgn



PROFILE
 "KID" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|-------|--|
| STATION | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|--------------------------|--|--------------------------|-----|-----|-------------|
| DESIGNED BY A. CANNON | RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION | DRAWN BY E. SUDHAUSEN | | | |
| CHECKED BY S. BROWN | | | | | |
| IN CHARGE R. COFFIN | | | | | |
| DATE 12/31/13 | | | | | |
| | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

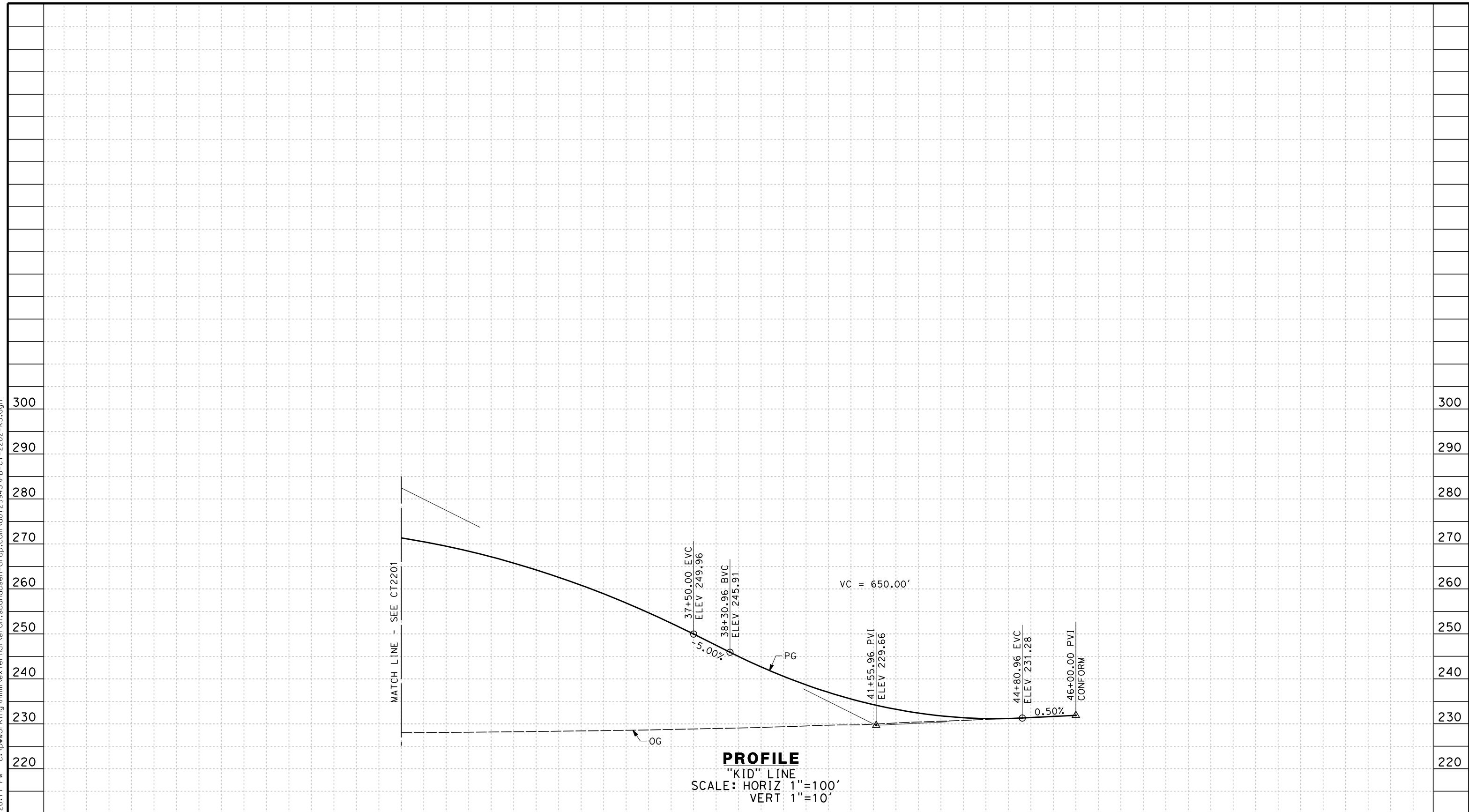
DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 KAWEAH SUBSECTION
 ALIGNMENT K3
 GRADE SEPARATION PROFILE
 IDAHO AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2201
 SCALE
AS SHOWN
 SHEET NO.
14 OF 27

c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125943\FB-CT-2202-K3.dgn 12/30/2013 3:20:11 PM eron.sudhausen



PROFILE
 "KID" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|-------|
| STATION | 1 | 2 | 3 | 4 | 35 | 9 | 9 | 9 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

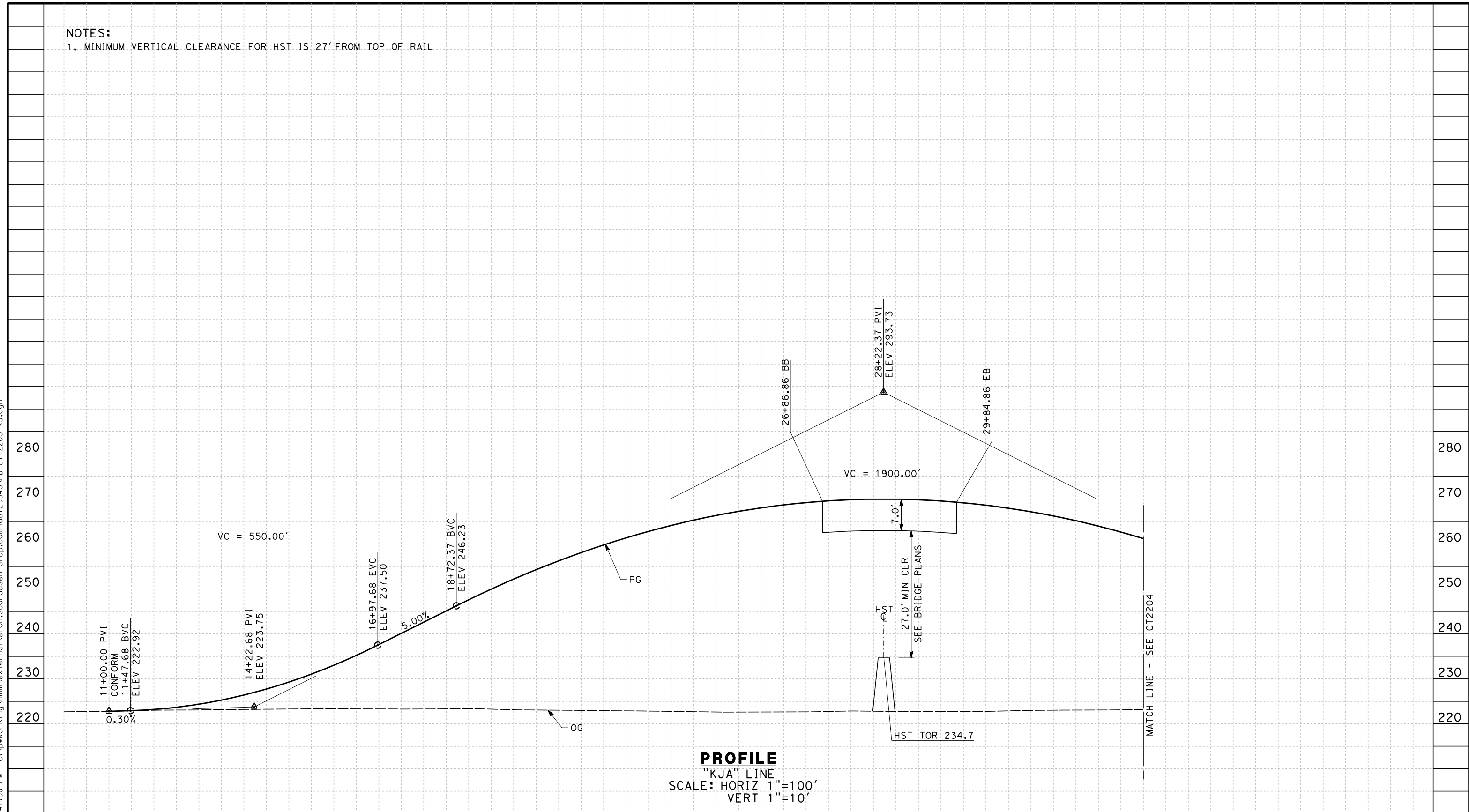
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K3
 GRADE SEPARATION PROFILE
 IDAHO AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2202
 SCALE
AS SHOWN
 SHEET NO.
15 OF 27

NOTES:
 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL



PROFILE
 "KJA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|-------|
| STATION | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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

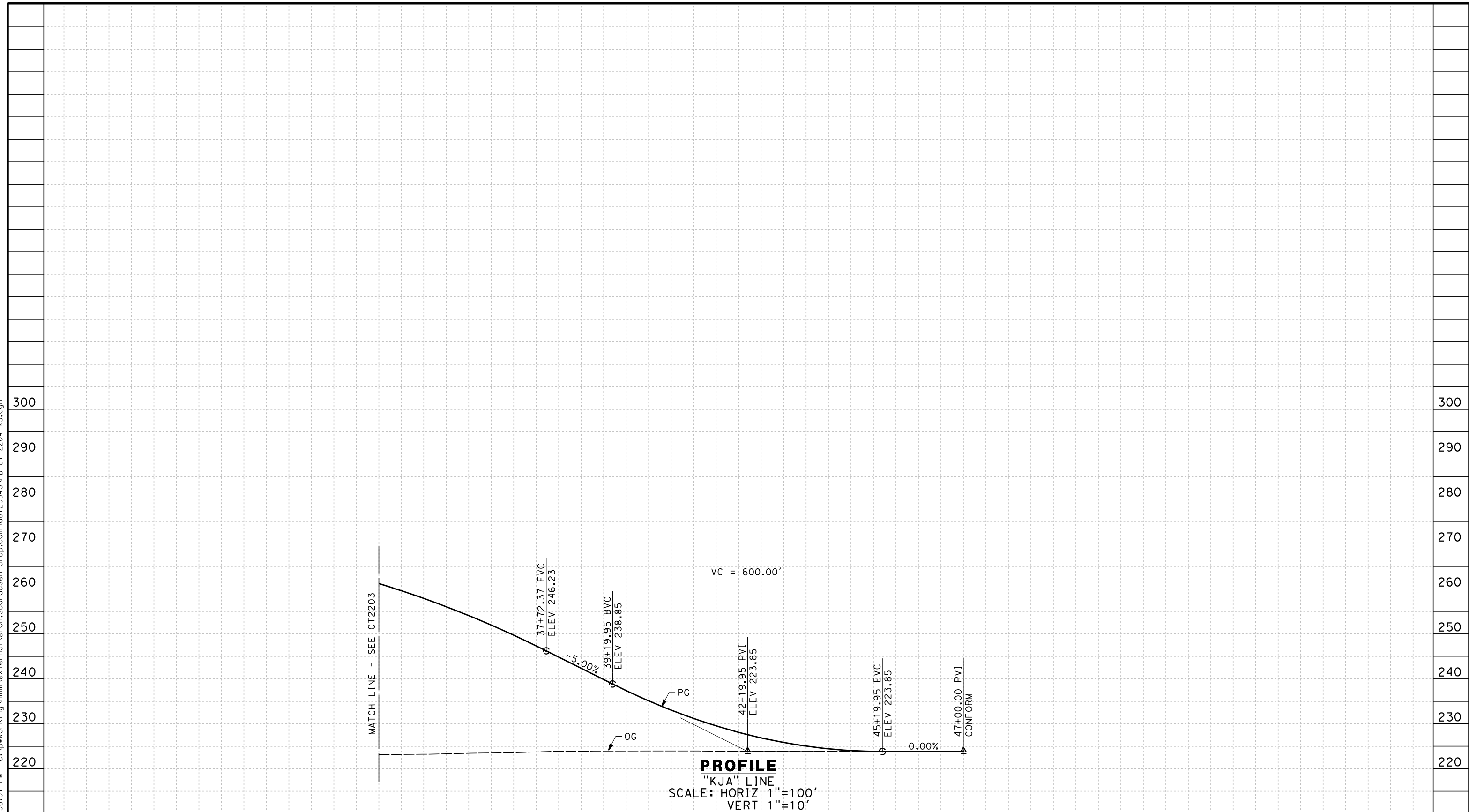


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K3
 GRADE SEPARATION PROFILE
 JACKSON AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2203
 SCALE
AS SHOWN
 SHEET NO.
16 OF 27

eron_sudhausen 12/30/2013 3:41:58 PM c:\pwworking\hmm\external\eron_sudhausen-arup.com\d0125943\FB-CT-2203-K3.dgn

c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125943\FB-CT-2204-K3.dgn 12/30/2013 3:36:51 PM eron.sudhausen



| | | | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|---|-------|
| STATION | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | TOTAL |
| Exc | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

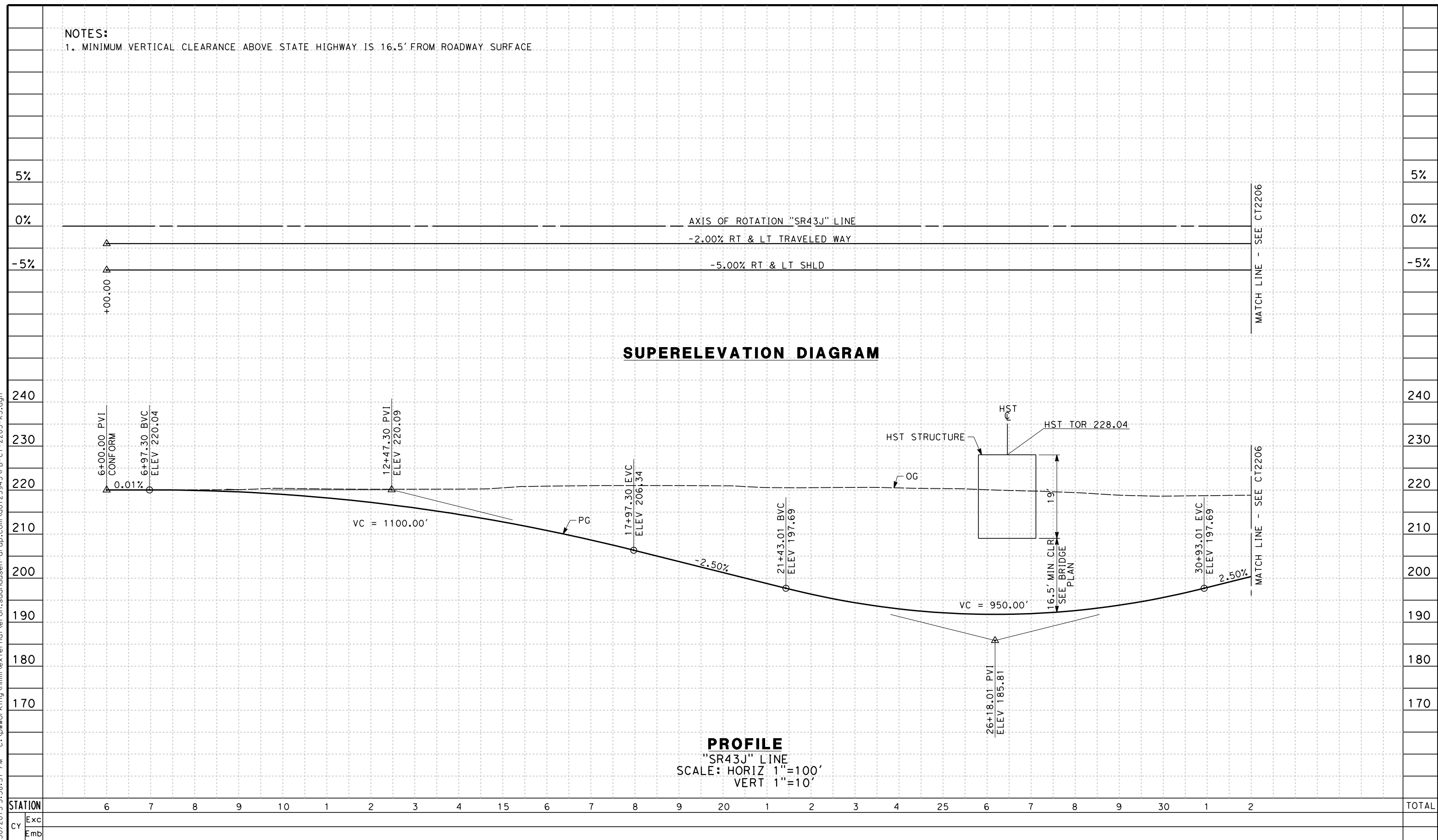
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2204
SCALE
AS SHOWN
SHEET NO.
17 OF 27

NOTES:
 1. MINIMUM VERTICAL CLEARANCE ABOVE STATE HIGHWAY IS 16.5' FROM ROADWAY SURFACE



| STATION | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | TOTAL |
|---------|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|-------|
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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

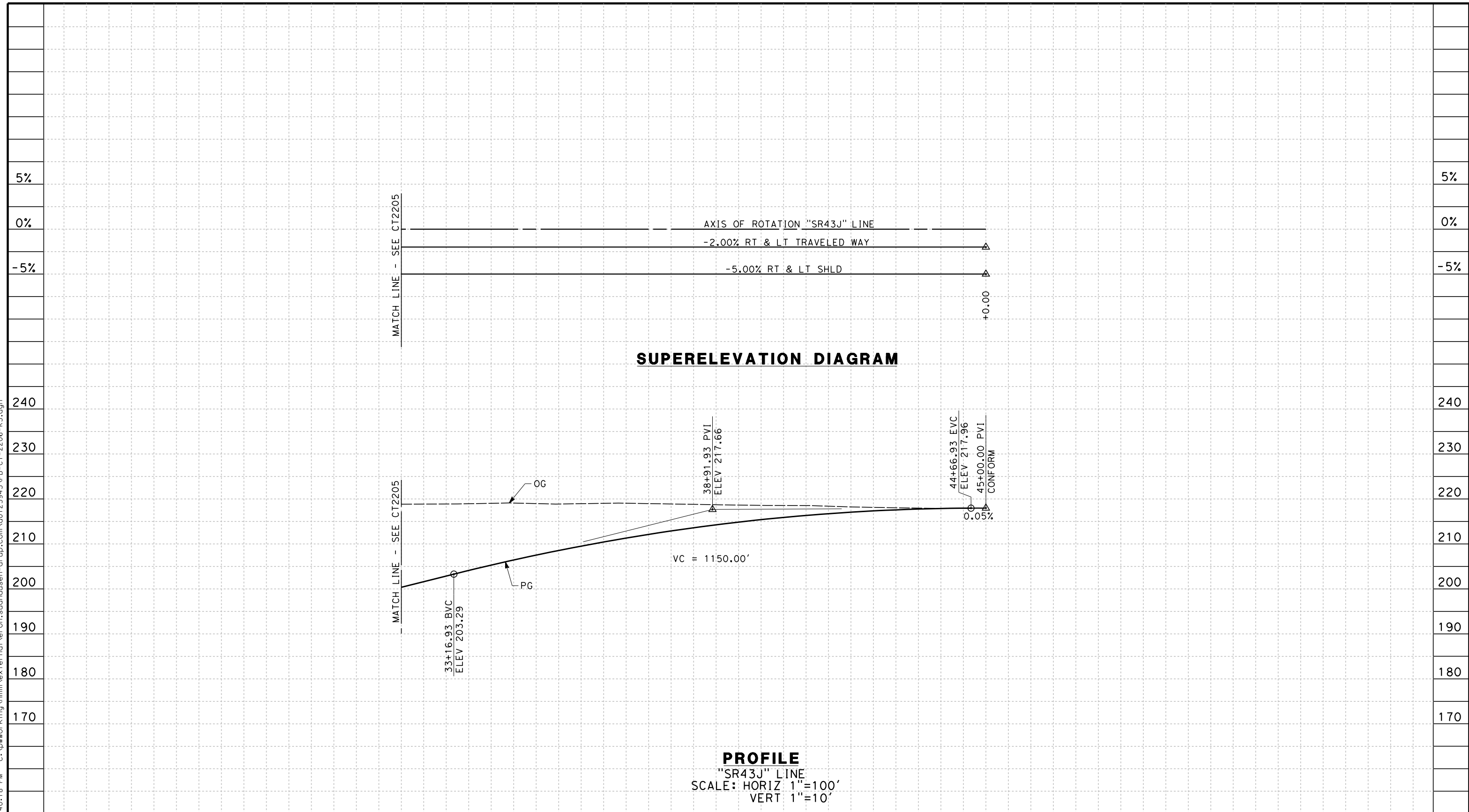


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K3
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 STATE ROUTE 43 (JERSEY AVE)

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2205
 SCALE
AS SHOWN
 SHEET NO.
18 OF 27

eron_sudhausen 12/30/2013 3:38:37 PM c:\pwworking\hmm\external\eron_sudhausen-arup.com\d0125943\FB-CT-2205-K3.dgn

c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125943\FB-CT-2206-K3.dgn 12/30/2013 3:40:18 PM



| | | | | | | | | | | | | | | | |
|---------|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | TOTAL |
| Exc | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON

DRAWN BY
E. SUDHAUSEN

CHECKED BY
S. BROWN

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

GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 (JERSEY AVE)

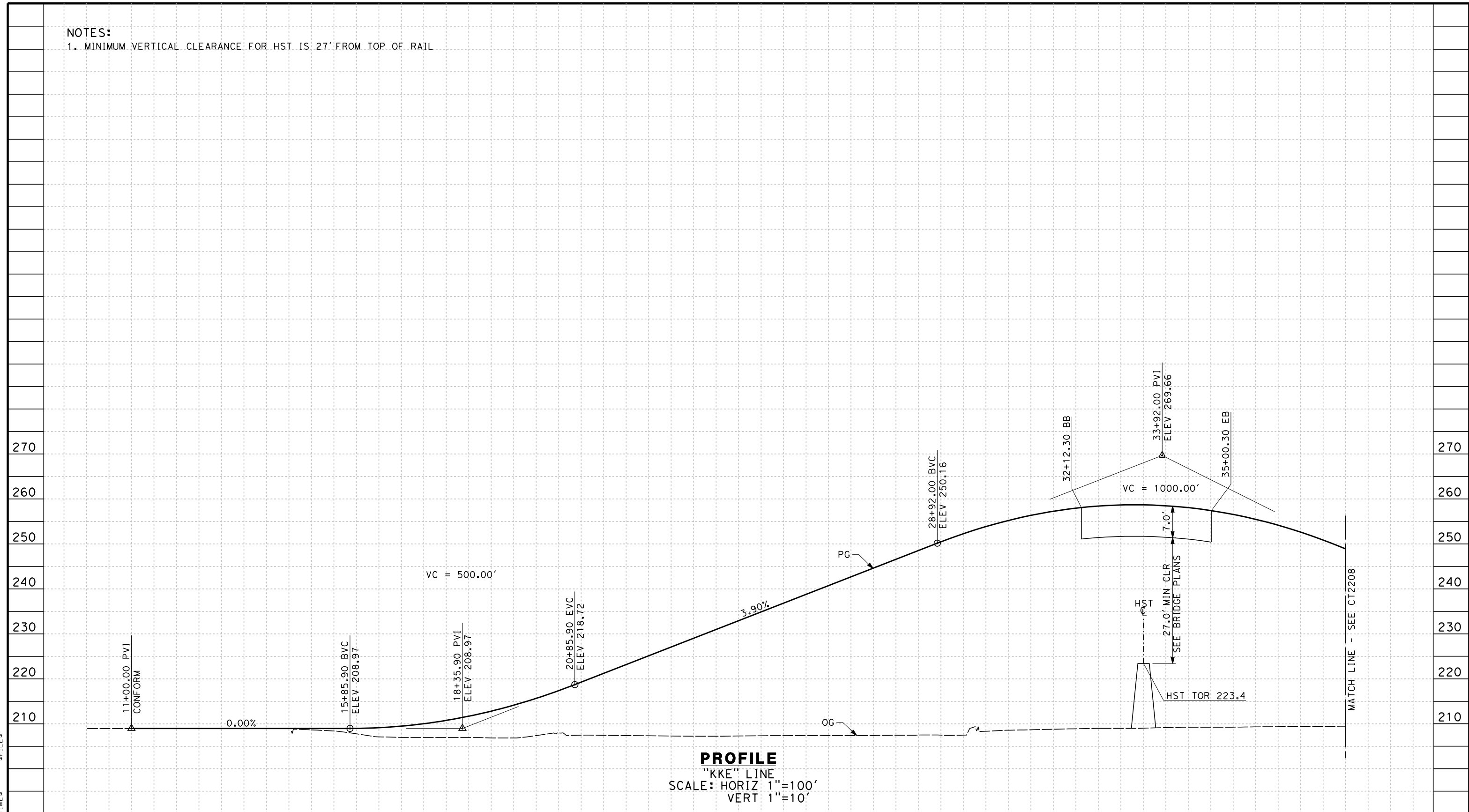
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2206

SCALE
AS SHOWN

SHEET NO.
19 OF 27

NOTES:
 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL



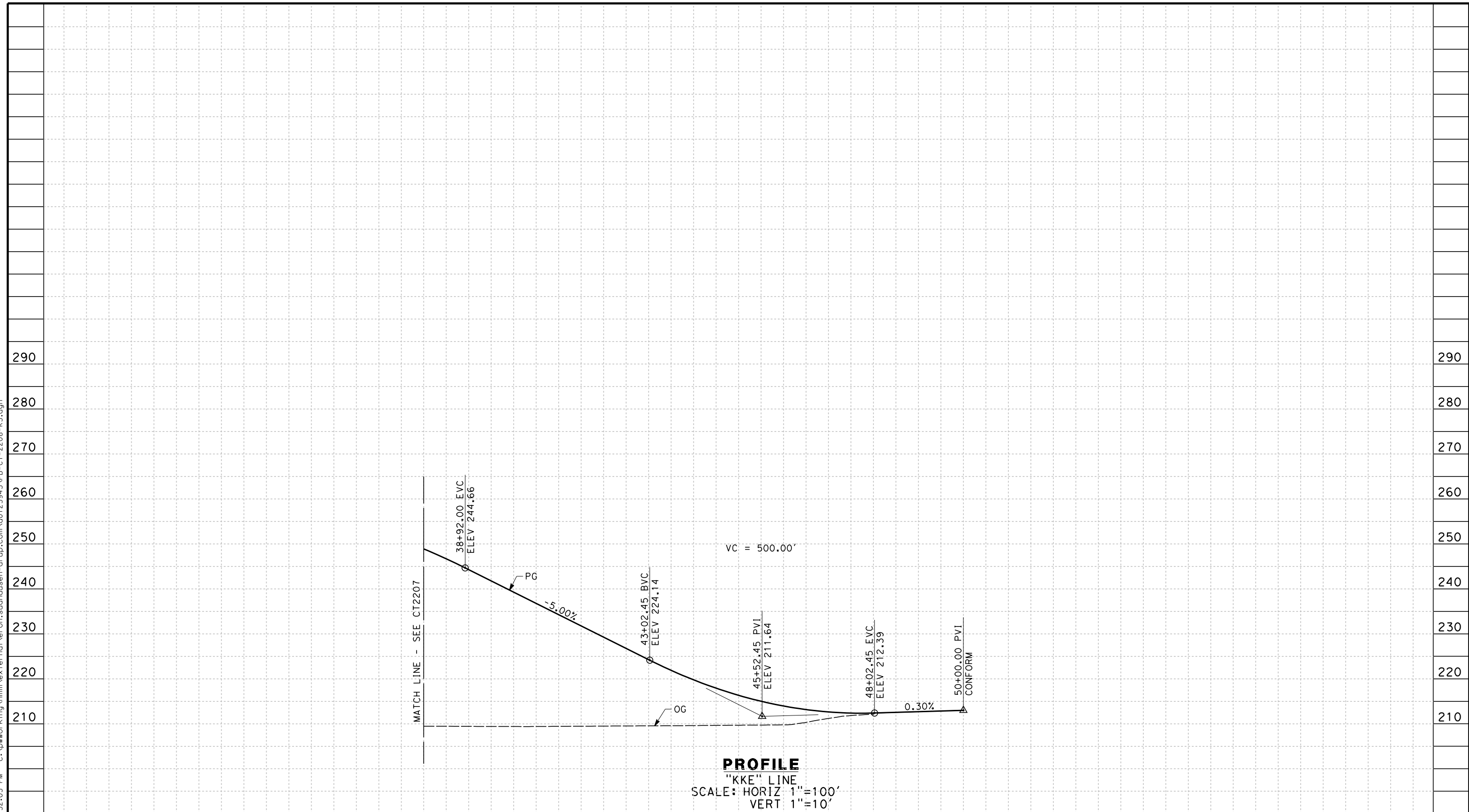
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|--------------------------|--|--|
| DESIGNED BY A. CANNON | RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION | |
| DRAWN BY E. SUDHAUSEN | | |
| CHECKED BY S. BROWN | | |
| IN CHARGE R. COFFIN | | |
| DATE 12/31/13 | | |

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K3
 GRADE SEPARATION PROFILE
 KENT AVE

| |
|-----------------------------|
| CONTRACT NO. HSR 06-0003 |
| DRAWING NO. CT2207 |
| SCALE AS SHOWN |
| SHEET NO. 20 OF 27 |

c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125943\FB-CT-2208-K3.dgn 12/30/2013 3:52:03 PM eron.sudhausen



| | | | | | | | | | | | | | | | |
|---------|---|---|----|---|---|---|---|----|---|---|---|---|----|---|-------|
| STATION | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | TOTAL |
| Exc | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON

DRAWN BY
E. SUDHAUSEN

CHECKED BY
S. BROWN

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
GRADE SEPARATION PROFILE
KENT AVE

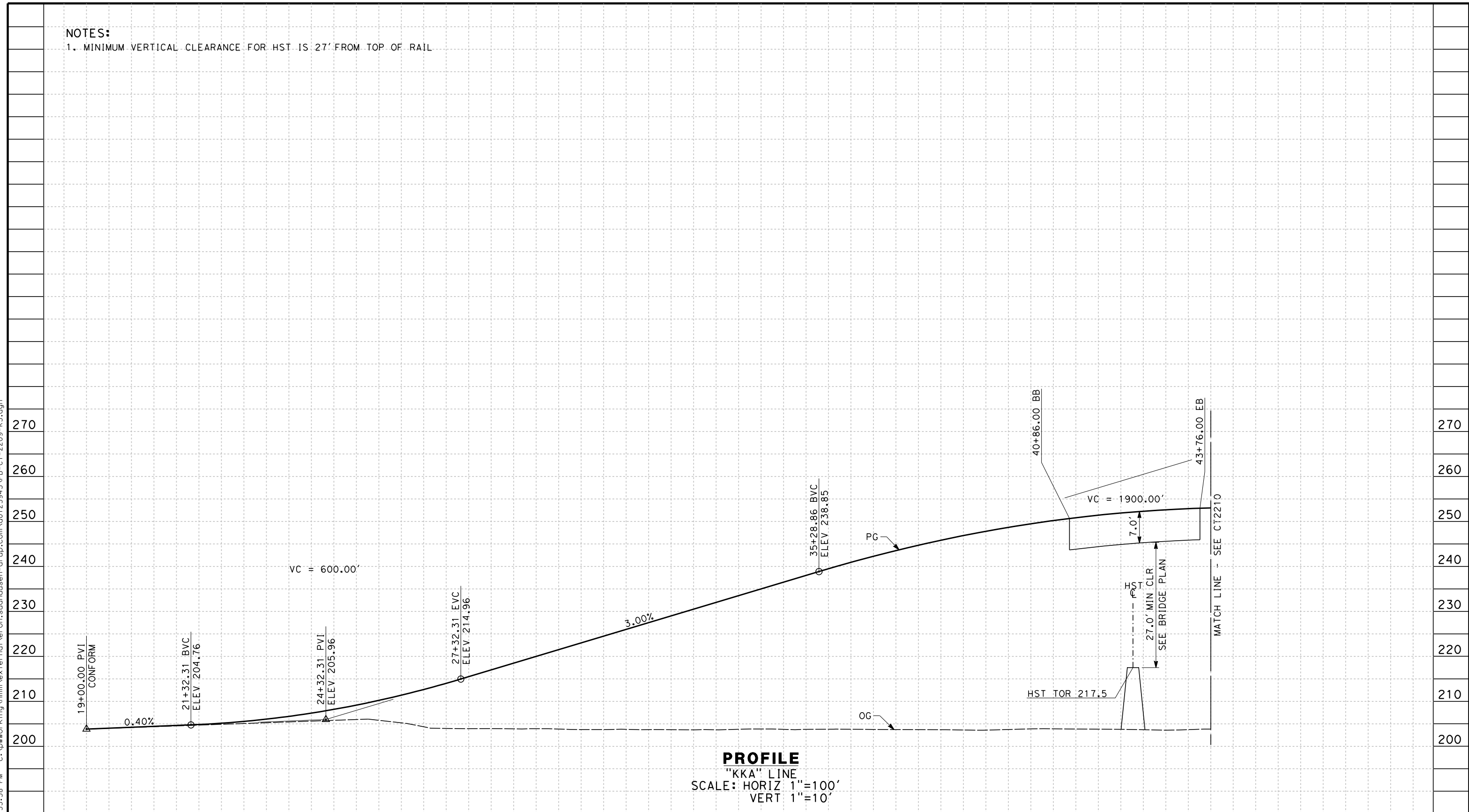
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2208

SCALE
AS SHOWN

SHEET NO.
21 OF 27

NOTES:
 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL



| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|-------|
| STATION | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

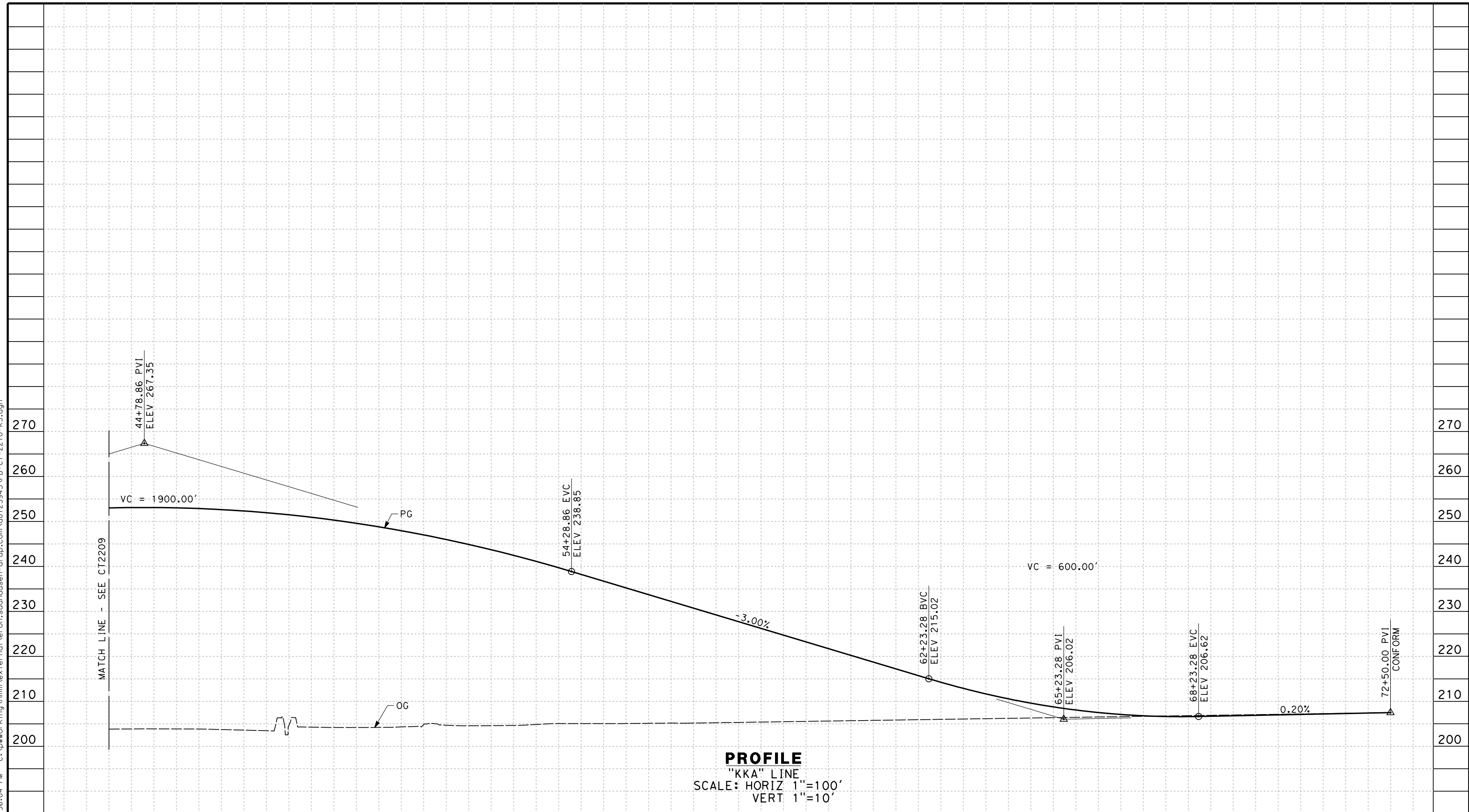


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K3
 GRADE SEPARATION PROFILE
 KANSAS AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2209
 SCALE
AS SHOWN
 SHEET NO.
22 OF 27

c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125943\FB-CT-2209-K3.dgn
 12/30/2013 3:53:58 PM
 eron.sudhausen

c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125943\FB-CT-2210-K3.dgn 12/30/2013 3:56:04 PM eron.sudhausen



PROFILE
 "KKA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 60 | 1 | 2 | 3 | 4 | 65 | 6 | 7 | 8 | 9 | 70 | 1 | 2 | 3 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

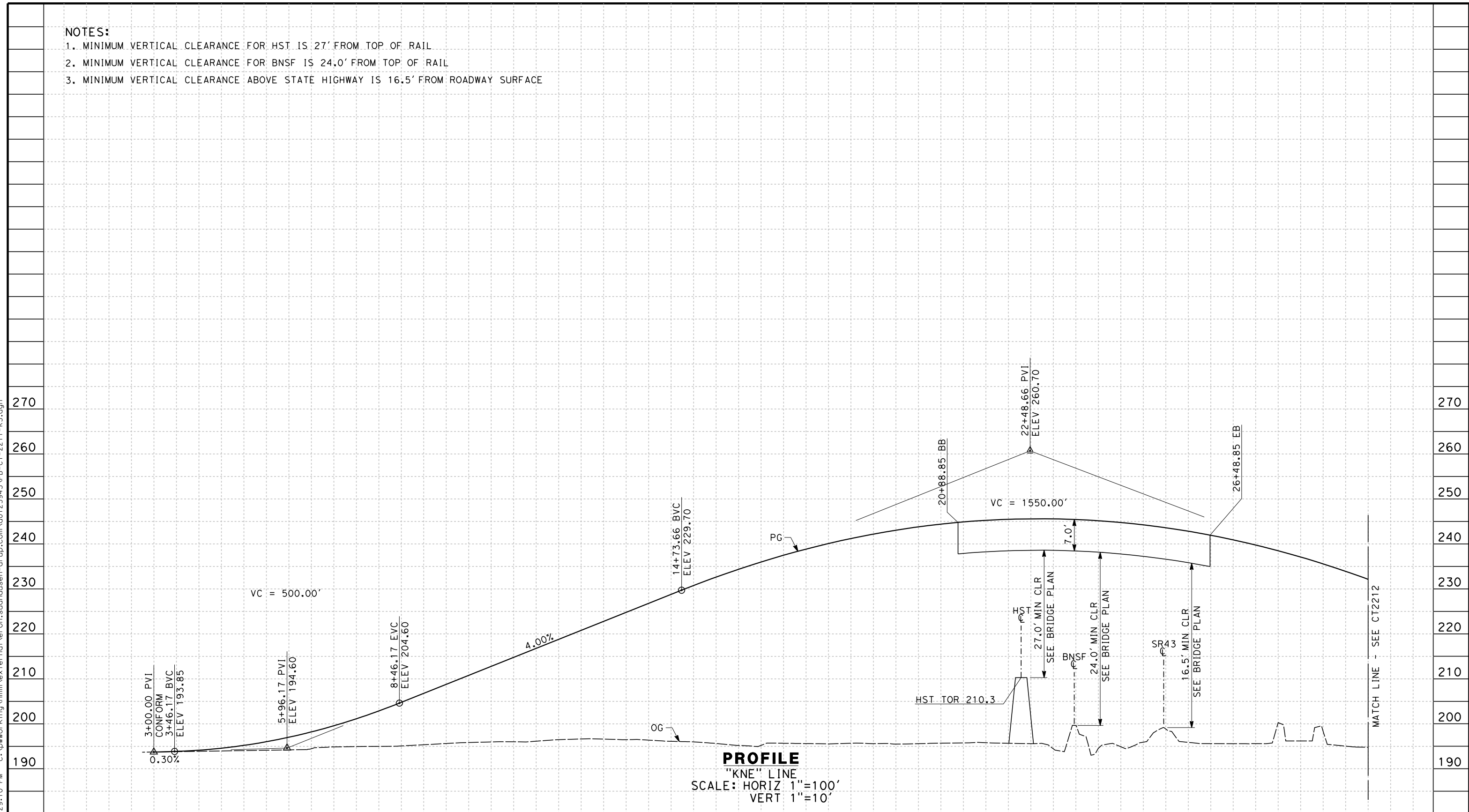


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K3
 GRADE SEPARATION PROFILE
 KANSAS AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2210
 SCALE
AS SHOWN
 SHEET NO.
23 OF 27

NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE ABOVE STATE HIGHWAY IS 16.5' FROM ROADWAY SURFACE



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|--|
| STATION | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|--------------|
| DESIGNED BY | A. CANNON |
| DRAWN BY | E. SUDHAUSEN |
| CHECKED BY | S. BROWN |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



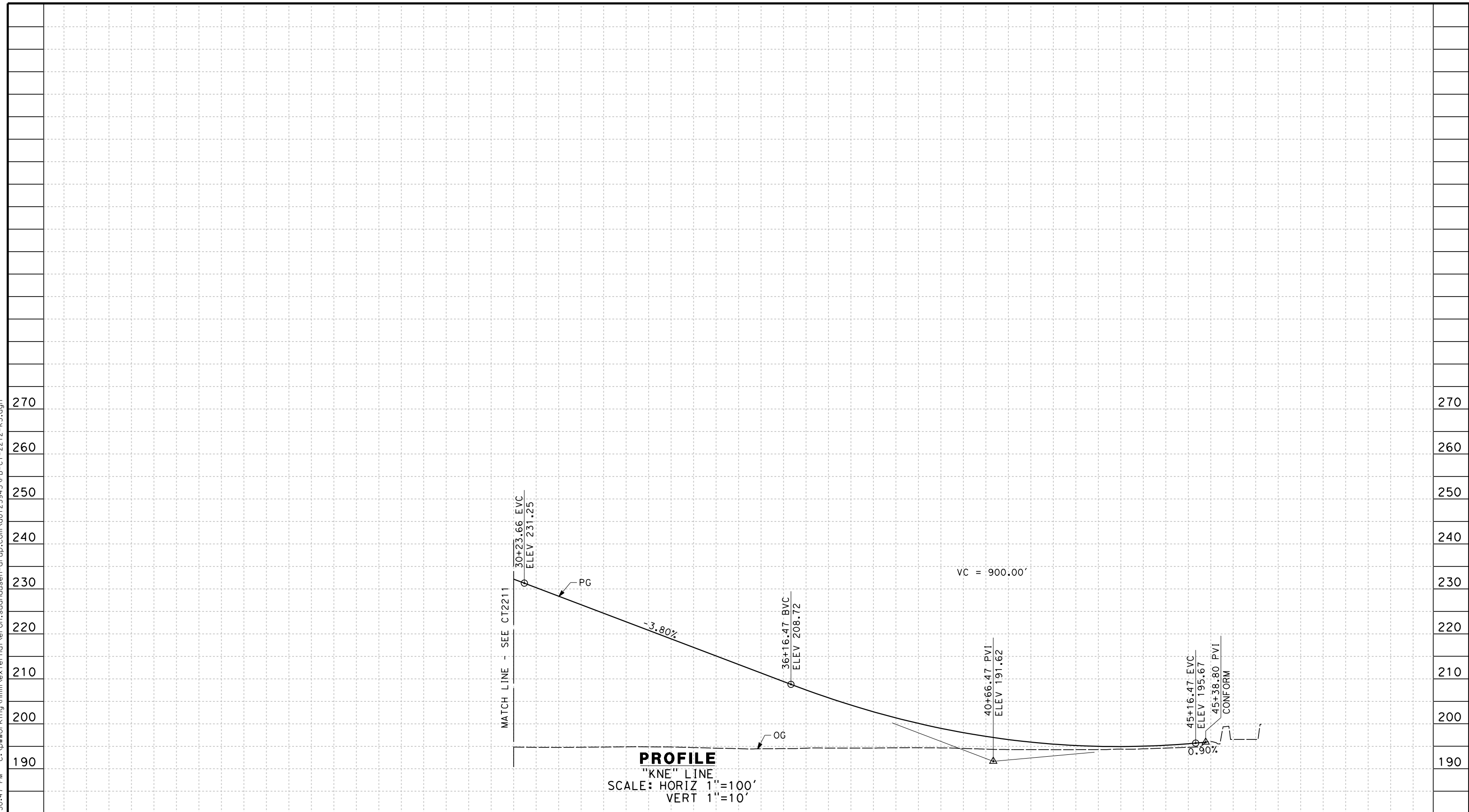
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K3
GRADE SEPARATION PROFILE
NEVADA AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2211 |
| SCALE | AS SHOWN |
| SHEET NO. | 24 OF 27 |

eron_sudhausen 12/30/2013 4:29:10 PM c:\pwworking\hmm\external\eron_sudhausen-arup.com\d0125943\FB-CT-2211-K3.dgn

c:\pwworking\hmm\external\eron.sudhausen-arup.com\d0125943\FB-CT-2212-K3.dgn 12/30/2013 4:30:47 PM eron.sudhausen



| | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|-------|
| STATION | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
GRADE SEPARATION PROFILE
NEVADA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2212
SCALE
AS SHOWN
SHEET NO.
25 OF 27

NOTES:

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

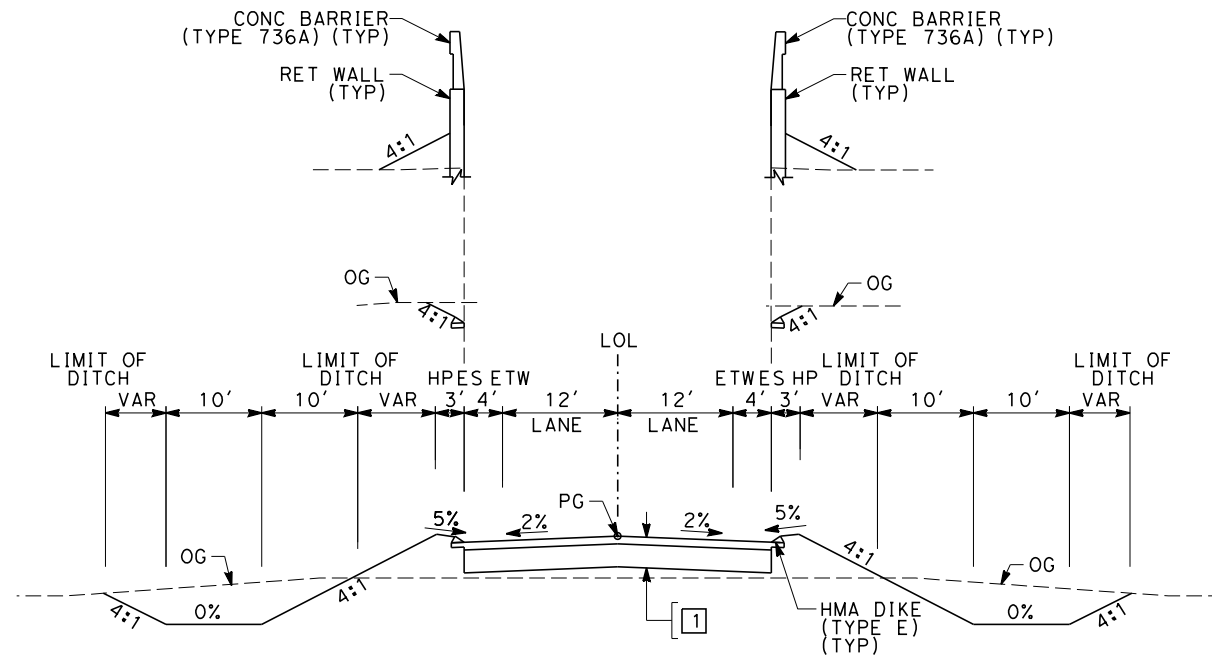
**STRUCTURAL SECTIONS
TYPICAL ROADWAY**

- 1 [0.50' HMA (TYPE A)
1.00' CL2 AB
- 2 [0.65' HMA (TYPE A)
1.75' CL2 AB

TABLE OF DESIGN SPEEDS

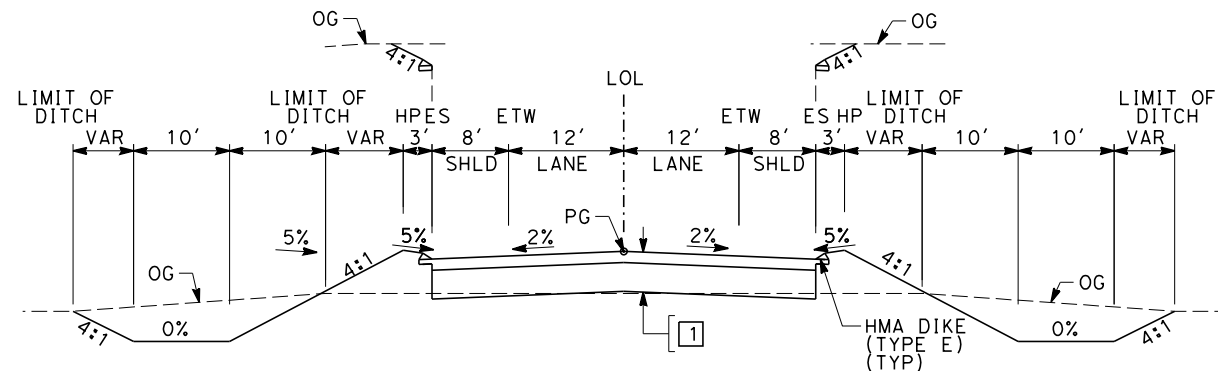
| STREET NAME | ALIGNMENT DESIGNATION | DESIGN SPEED | CRITERIA/JURISDICTION |
|-------------|-----------------------|--------------|---------------------------|
| IDAHO AVE | KID | 55 | KINGS COUNTY/KINGS COUNTY |
| JACKSON AVE | KJA | 55 | KINGS COUNTY/KINGS COUNTY |
| SR 43 | SR43J | 70 | HDM/CALTRANS |
| KENT AVE | KKE | 45 | KINGS COUNTY/KINGS COUNTY |
| KANSAS AVE | KKA | 60 | KINGS COUNTY/KINGS COUNTY |
| NEVADA AVE | KNE | 50 (40*) | KINGS COUNTY/KINGS COUNTY |

* WILL REQUIRE REDUCED DESIGN SPEED ON HORIZONTAL CURVE APPROACHING STOP CONDITION



SECTION A

- "KID" 10+00.00 TO 26+58.82
- "KID" 29+48.82 TO 46+00.00
- "KKE" 11+00.00 TO 32+12.30
- "KKE" 35+00.30 TO 50+00.00
- "KKA" 19+00.00 TO 40+86.00
- "KKA" 43+76.00 TO 72+50.00
- "KNE" 3+00.00 TO 20+88.85
- "KNE" 26+48.85 TO 45+38.80



SECTION B

- "KJA" 11+00.00 TO 26+86.86
- "KJA" 29+84.86 TO 47+00.00

c:\pwworking\hmm\external\alton.cannon-ar-up.com\d0125943\FB-CT-3220-K3.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

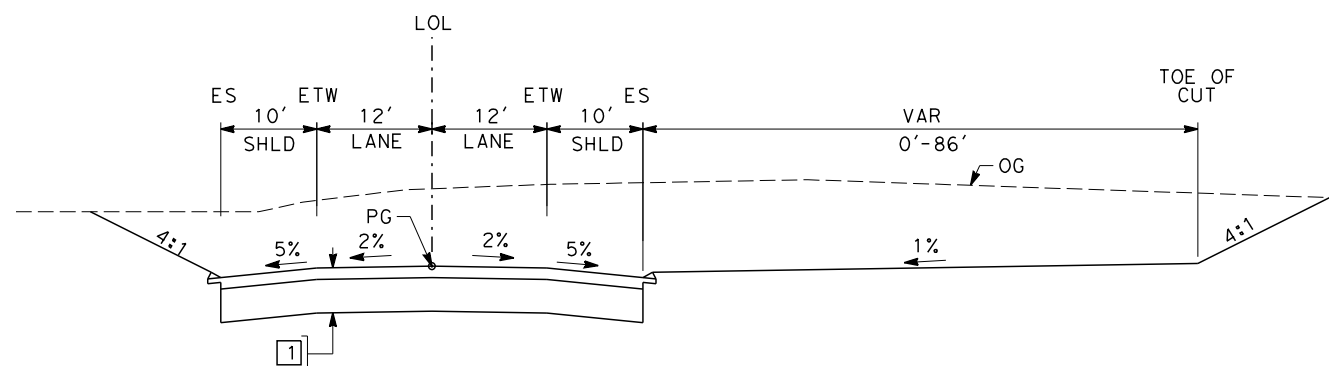
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K3
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3220
SCALE
NO SCALE
SHEET NO.
26 OF 27



SECTION C

"SR43J" 6+00.00 TO 45+00.00

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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

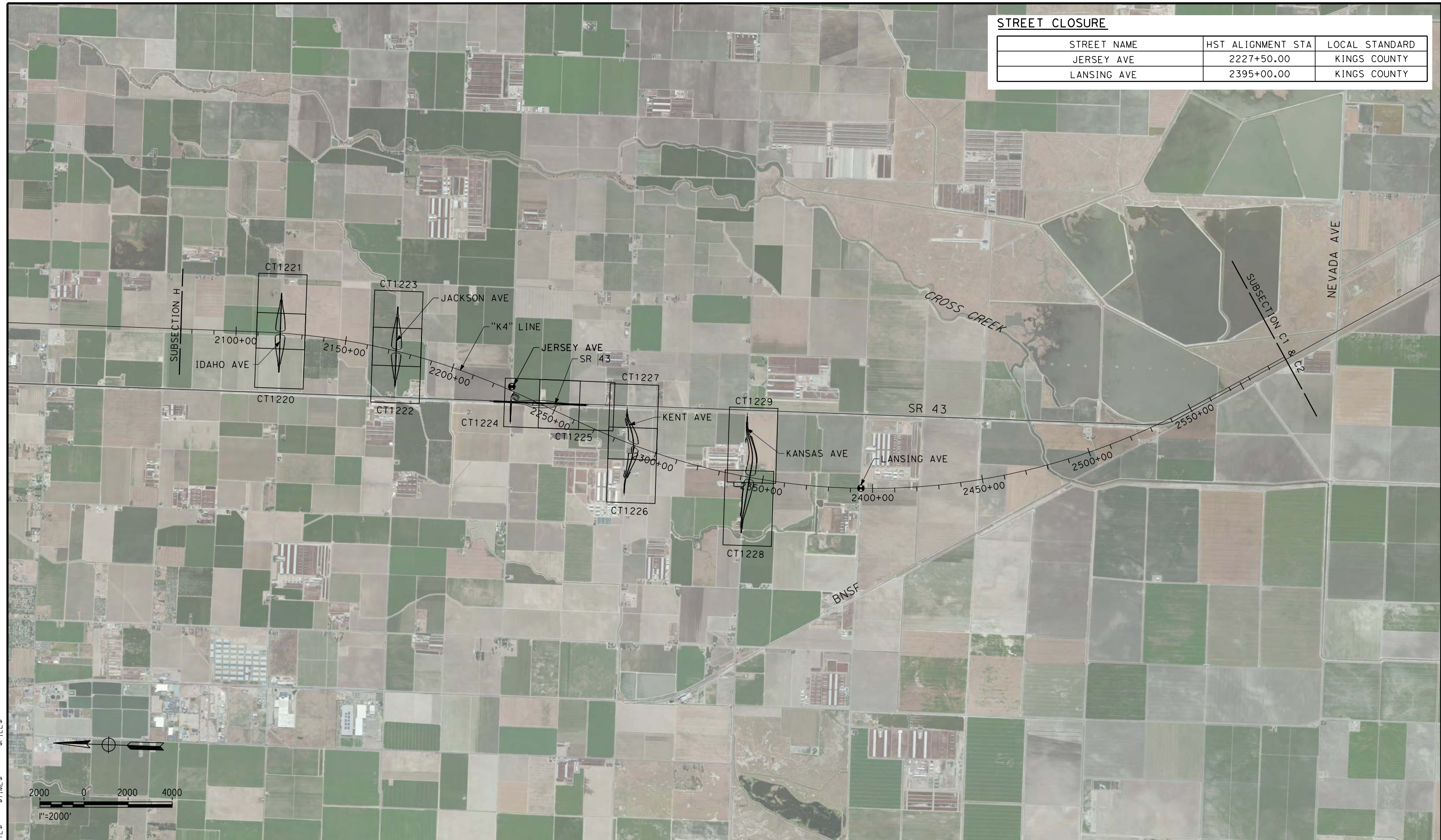


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K3
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3221
SCALE
NO SCALE
SHEET NO.
27 OF 27

| STREET CLOSURE | | |
|----------------|-------------------|----------------|
| STREET NAME | HST ALIGNMENT STA | LOCAL STANDARD |
| JERSEY AVE | 2227+50.00 | KINGS COUNTY |
| LANSING AVE | 2395+00.00 | KINGS COUNTY |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON

DRAWN BY
E. SUDHAUSEN

CHECKED BY
S. BROWN

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
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CB0065

SCALE
AS SHOWN

SHEET NO.
1 OF 23

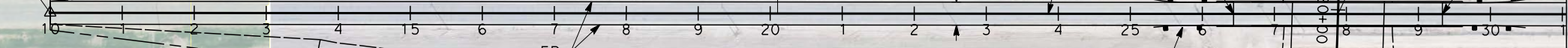
\$USER \$ DATE \$ TIME \$ FILE \$

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°43'34" E | 3600.00' |

IDAHO AVE

"KID" 10+00.00 PI
CONFORM



HST ROW

"K4" LINE

"K4" 2120+05.79 POC =
"KID" 27+88.38 POT

ROADWAY ROW

LIMIT OF DITCH

LIMIT OF DITCH
TOE OF FILL

LIMIT OF DITCH

LIMIT OF DITCH
TOE OF FILL

DRAINAGE DITCH (TYP)

ROADWAY ROW

EP

1

32'

"KID" LINE BB

MBGR
(TYP)

EB

MATCH LINE - SEE CT1221

ROADWAY ROW

LIMIT OF DITCH
TOE OF FILL

LIMIT OF DITCH

CULVERT

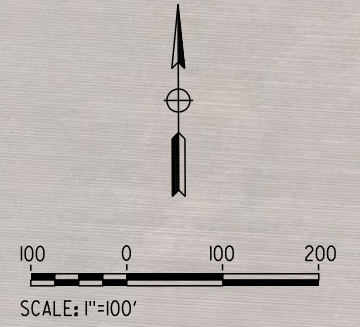
LIMIT OF DITCH
TOE OF FILL

LIMIT OF DITCH

ROADWAY ROW

CANAL REALIGNMENT

EAST CANAL



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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

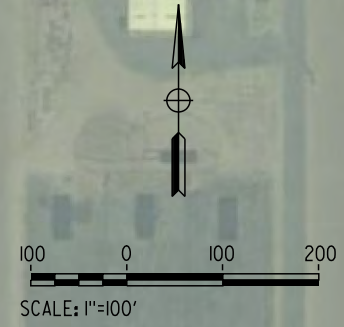
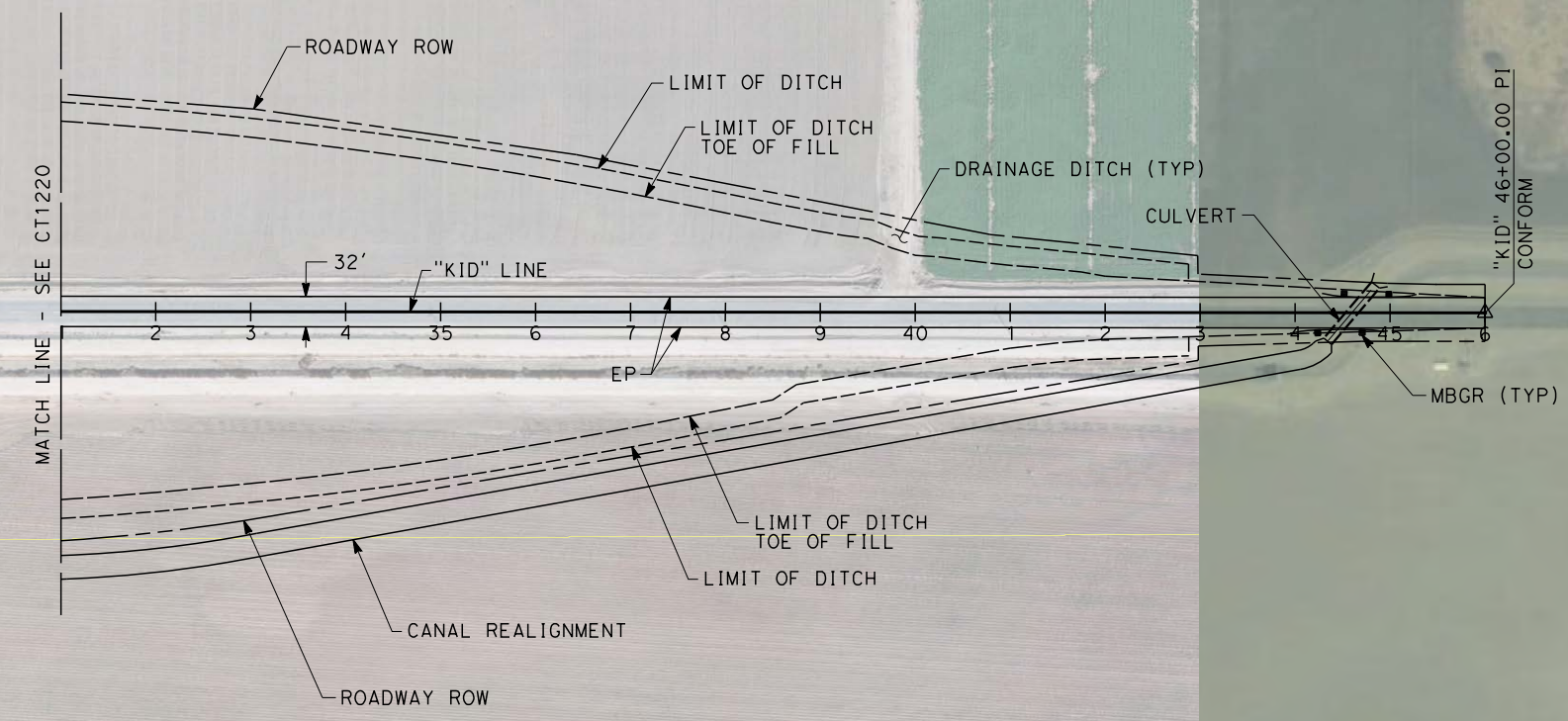
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1220
SCALE
AS SHOWN
SHEET NO.
2 OF 23

| LINE DATA | | |
|-----------|---------------|----------|
| NO. | BEARING | DISTANCE |
| 1 | S 89°43'34" E | 3600.00' |



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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 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
 GRADE SEPARATION LAYOUT
 IDAHO AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT1221
 SCALE
AS SHOWN
 SHEET NO.
3 OF 23

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-----------------|----------|
| 1 | S 89° 41' 46" E | 3700.00' |



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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



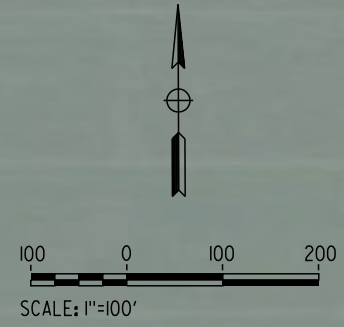
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 KAWEAH SUBSECTION
 ALIGNMENT K4
 GRADE SEPARATION LAYOUT
 JACKSON AVE

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT1222
 SCALE
 AS SHOWN
 SHEET NO.
 4 OF 23

| LINE DATA | | |
|-----------|---------------|----------|
| NO. | BEARING | DISTANCE |
| 1 | S 89°41'46" E | 3700.00' |



EXIST CANAL
JACKSON AVE



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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 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
 GRADE SEPARATION LAYOUT
 JACKSON AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT1223
 SCALE
AS SHOWN
 SHEET NO.
5 OF 23

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 00°27'06" W | 4500.00' |
| 2 | N 89°42'41" W | 1000.00' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



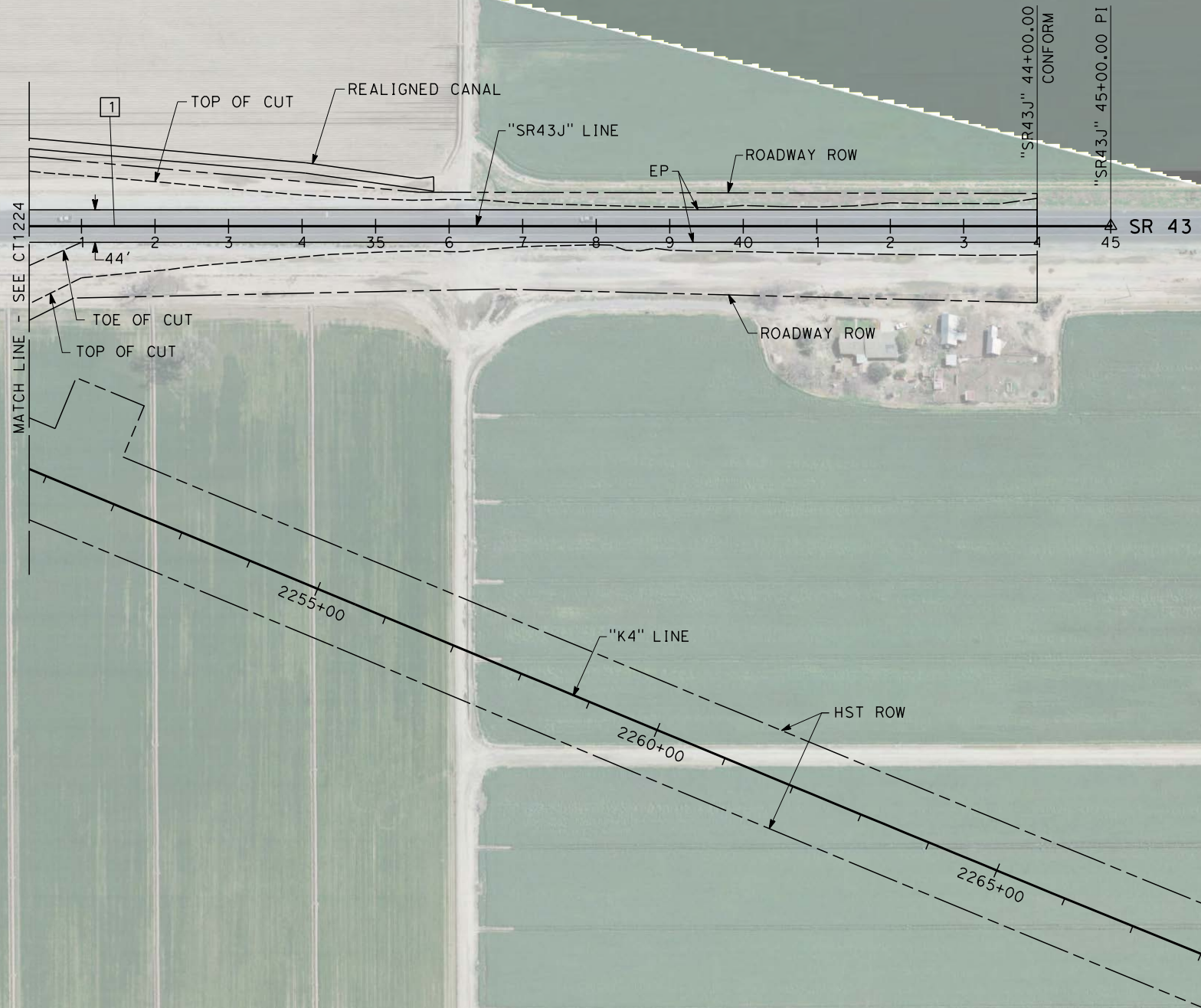
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
STATE ROUTE 43 (JERSEY AVE)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1224
SCALE
AS SHOWN
SHEET NO.
6 OF 23

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

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 00°27'06" W | 4500.00' |



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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 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
 GRADE SEPARATION LAYOUT
 STATE ROUTE 43 (JERSEY AVE)

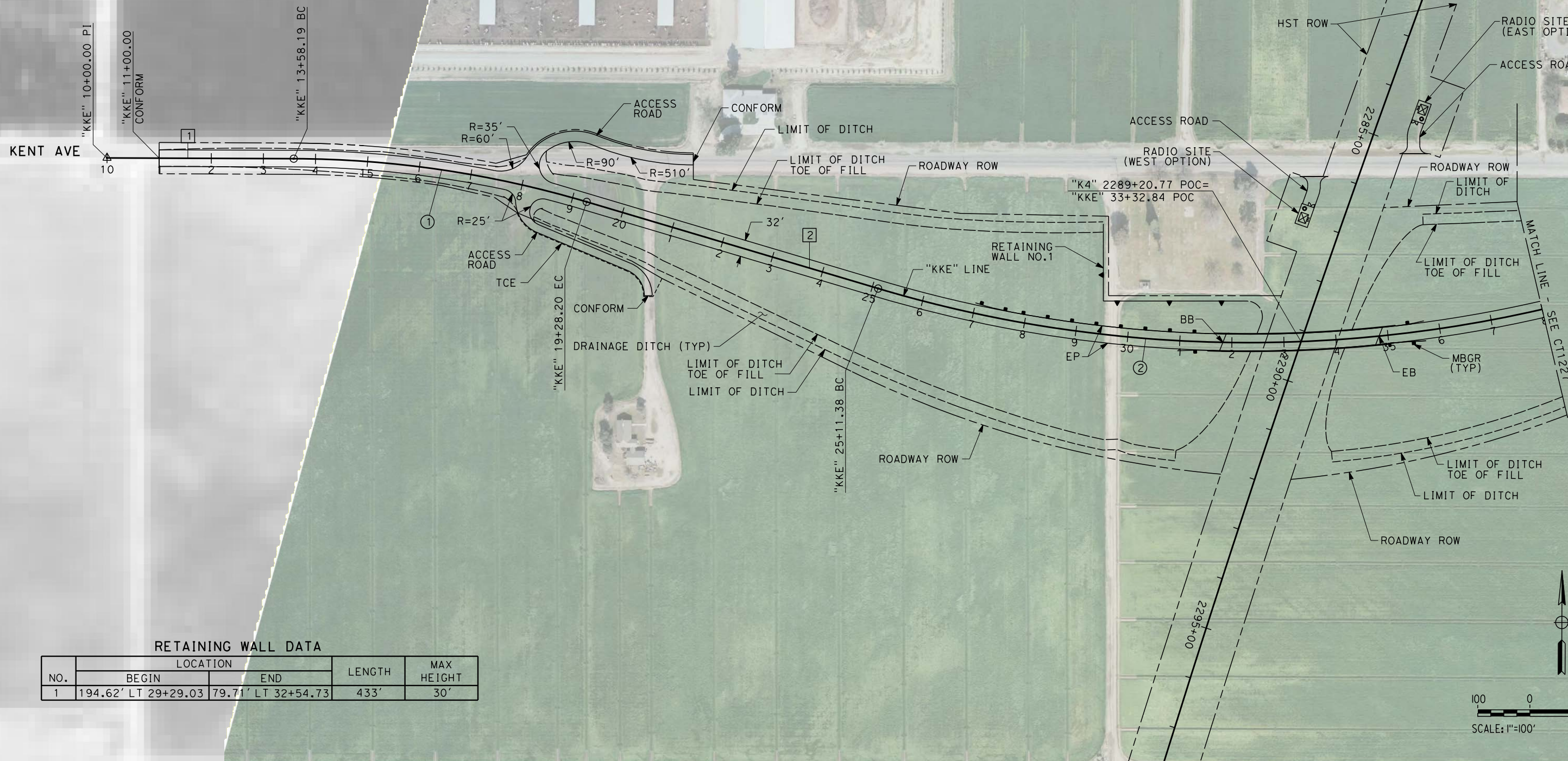
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT1225
 SCALE
AS SHOWN
 SHEET NO.
7 OF 23

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°46'22" E | 358.19' |
| 2 | S 73°26'35" E | 583.18' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|----------|
| ① | 2000.00' | 16°19'46" | 286.95' | 570.01' |
| ② | 2500.00' | 40°19'05" | 917.79' | 1759.21' |



RETAINING WALL DATA

| NO. | LOCATION | | LENGTH | MAX HEIGHT |
|-----|---------------------|--------------------|--------|------------|
| | BEGIN | END | | |
| 1 | 194.62' LT 29+29.03 | 79.71' LT 32+54.73 | 433' | 30' |

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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 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
 GRADE SEPARATION LAYOUT
 KENT AVE

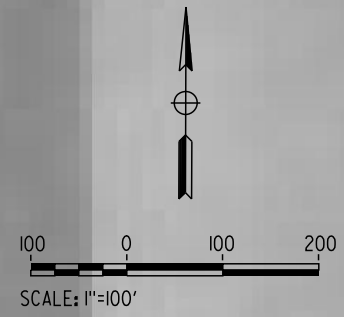
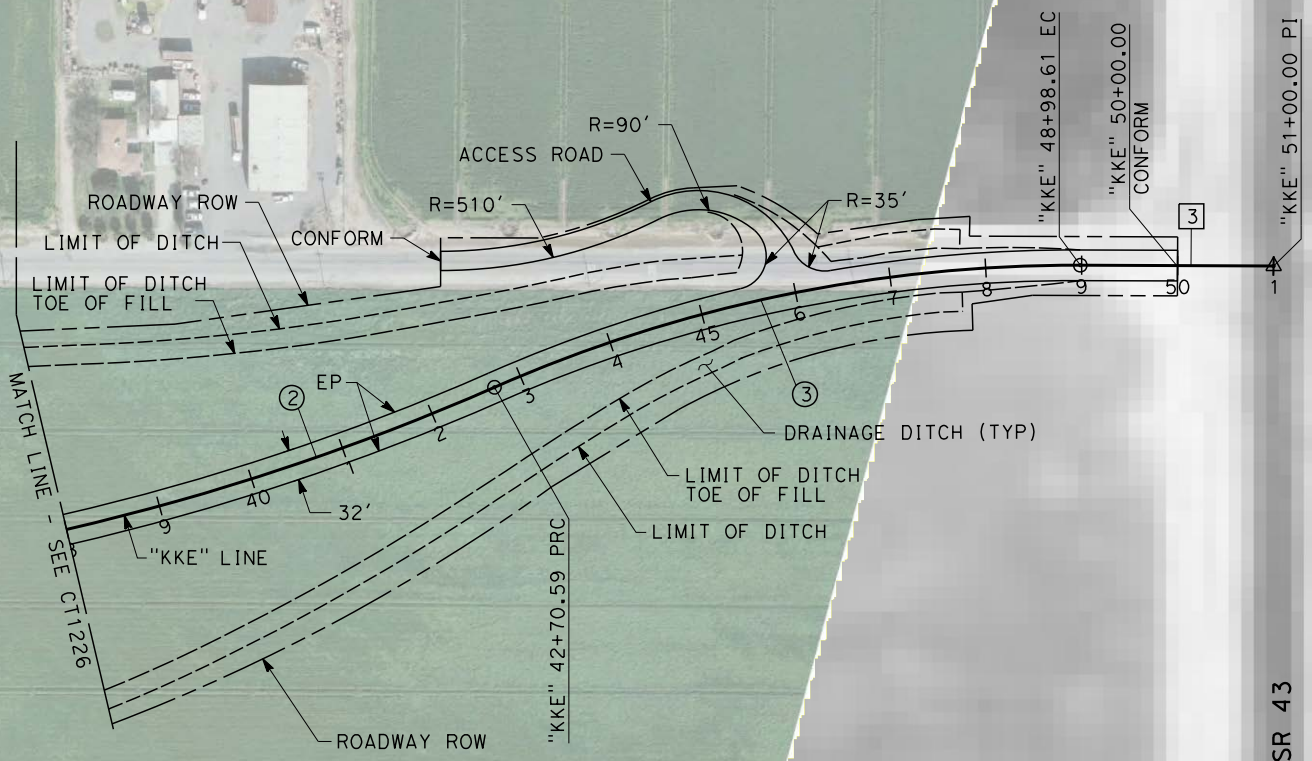
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT1226
 SCALE
AS SHOWN
 SHEET NO.
8 OF 23

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 3 | S 89°46'22" E | 201.39' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|----------|
| ② | 2500.00' | 40°19'05" | 917.79' | 1759.21' |
| ③ | 1500.00' | 23°59'19" | 318.68' | 628.02' |



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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 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
 GRADE SEPARATION LAYOUT
 KENT AVE

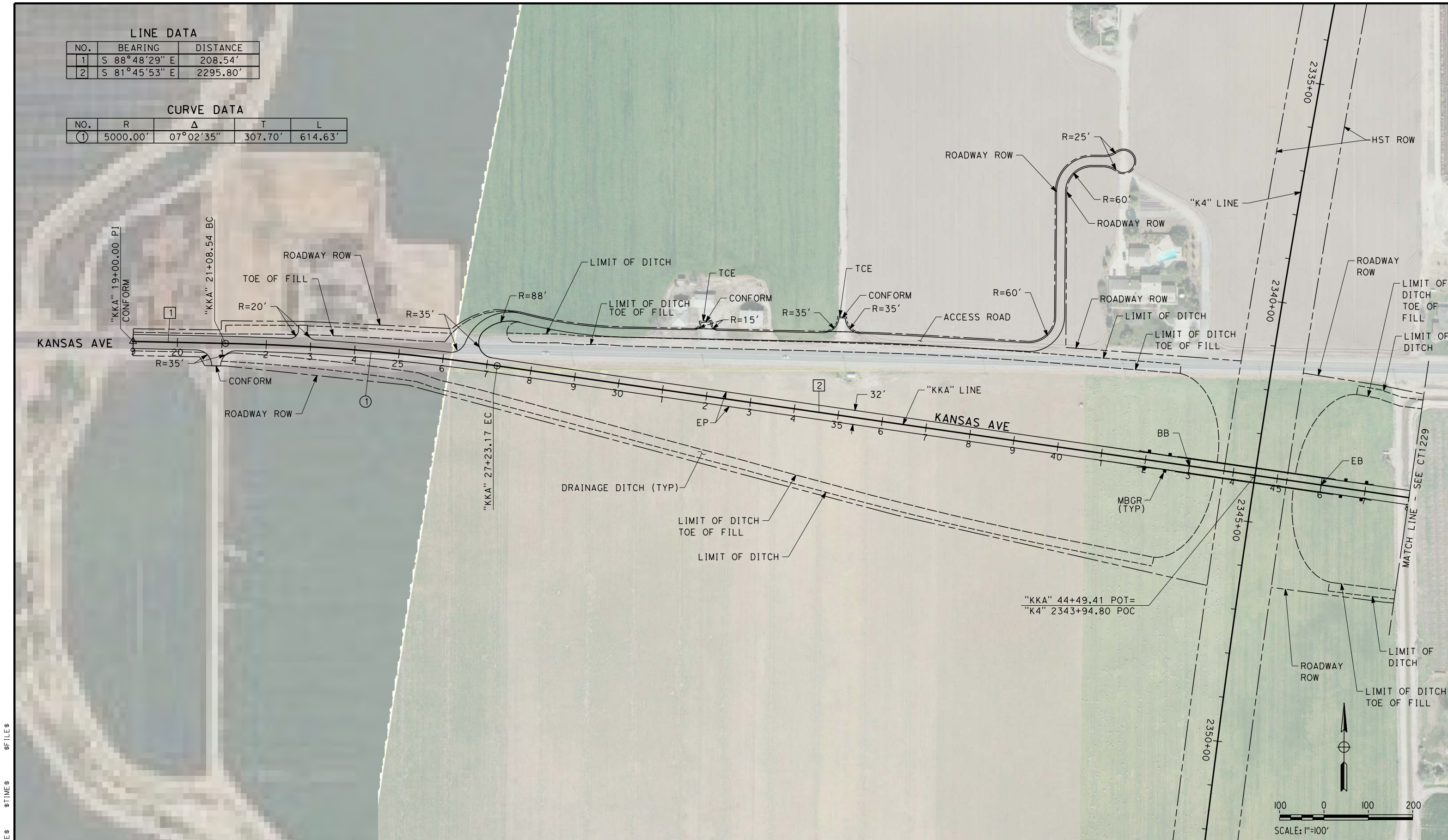
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT1227
 SCALE
AS SHOWN
 SHEET NO.
9 OF 23

LINE DATA

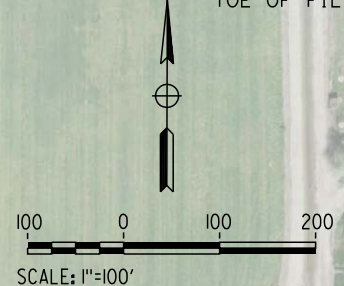
| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 88°48'29" E | 208.54' |
| 2 | S 81°45'53" E | 2295.80' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| (1) | 5000.00' | 07°02'35" | 307.70' | 614.63' |



"KKA" 44+49.41 POT=
"K4" 2343+94.80 POC



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

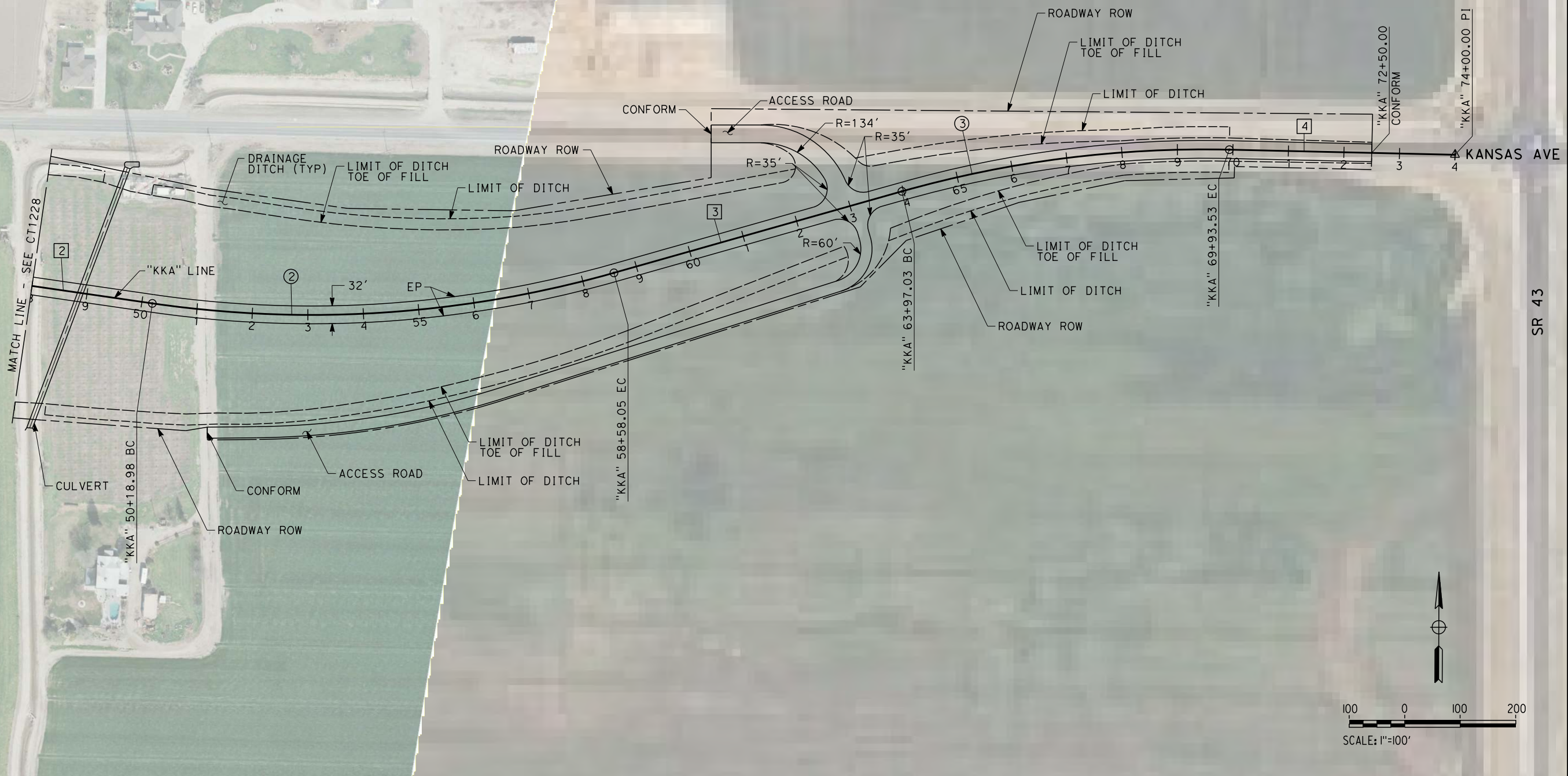


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1228
SCALE
AS SHOWN
SHEET NO.
10 OF 23

| LINE DATA | | |
|-----------|---------------|----------|
| NO. | BEARING | DISTANCE |
| 2 | S 81°45'53" E | 2295.80' |
| 3 | S 74°11'51" E | 538.98' |
| 4 | S 88°42'51" E | 406.47' |

| CURVE DATA | | | | |
|------------|----------|-----------|---------|---------|
| NO. | R | Δ | T | L |
| ② | 2000.00' | 24°02'16" | 425.80' | 839.07' |
| ③ | 2000.00' | 17°05'18" | 300.48' | 596.50' |



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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

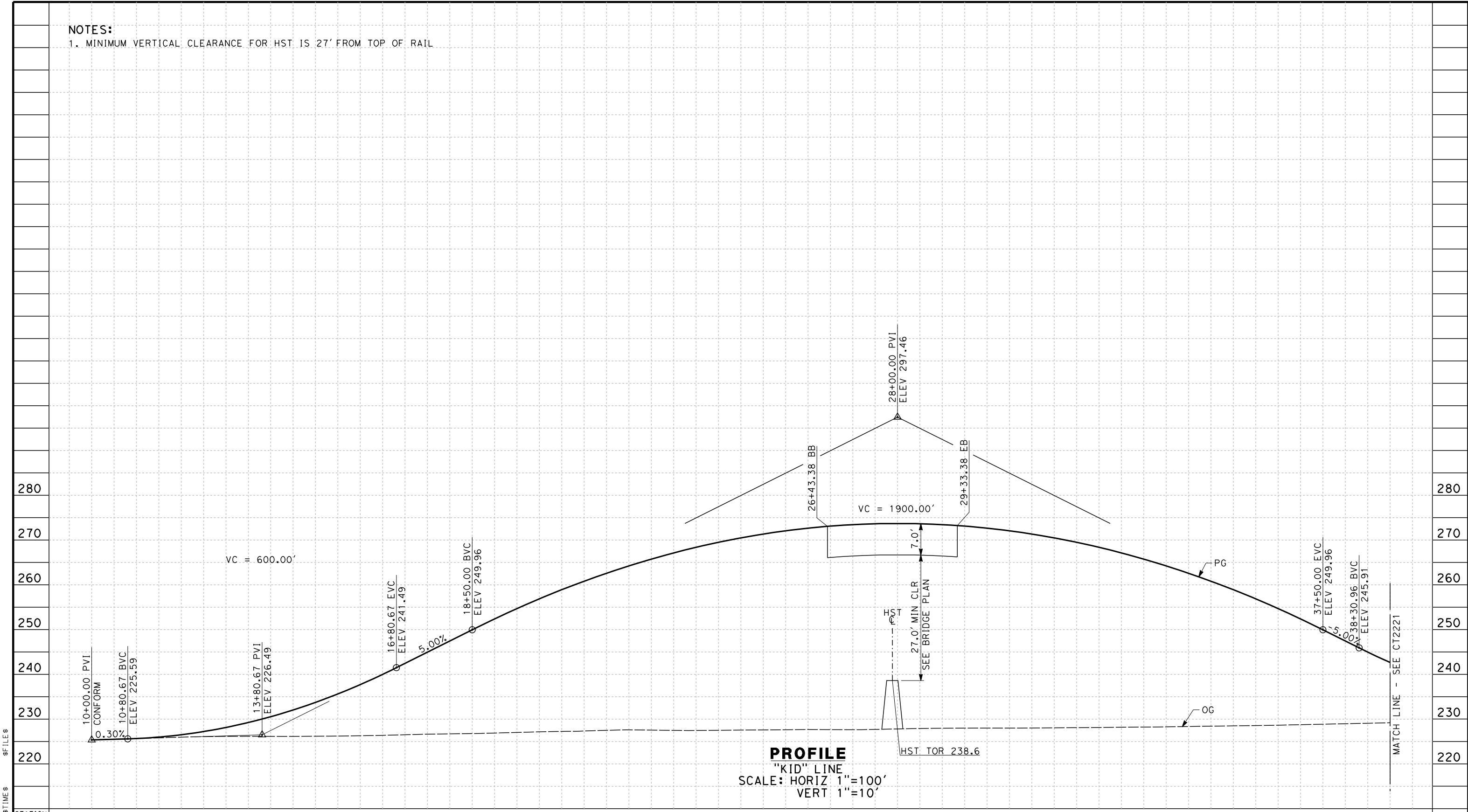


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 KAWEAH SUBSECTION
 ALIGNMENT K4
 GRADE SEPARATION LAYOUT
 KANSAS AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT1229
 SCALE
AS SHOWN
 SHEET NO.
11 OF 23

NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|-------|
| STATION | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|--------------|
| DESIGNED BY | A. CANNON |
| DRAWN BY | E. SUDHAUSEN |
| CHECKED BY | S. BROWN |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
DESIGN SUBMISSION**

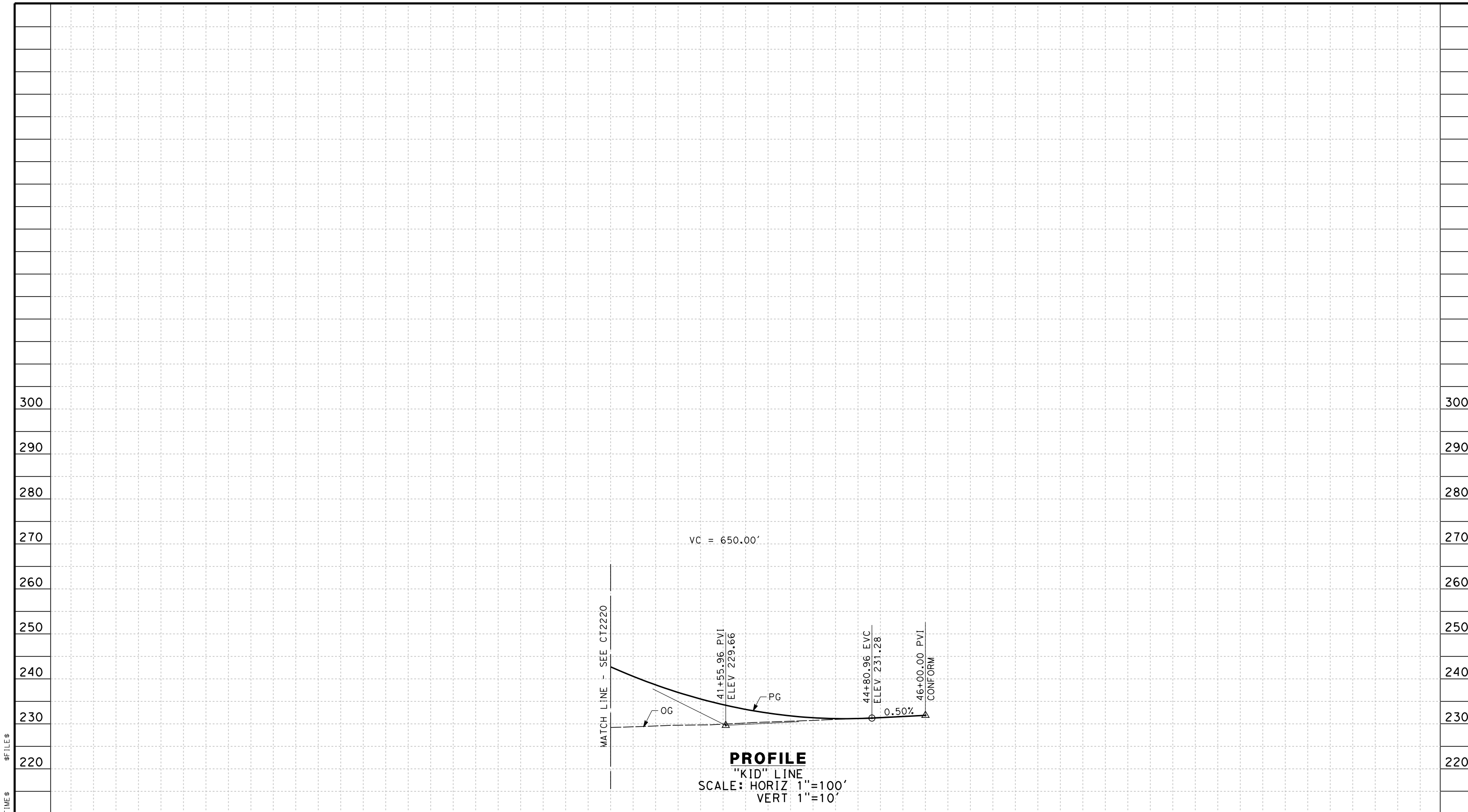
**NOT FOR
CONSTRUCTION**



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

KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
IDAHO AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2220 |
| SCALE | AS SHOWN |
| SHEET NO. | 12 OF 23 |



VC = 650.00'

MATCH LINE - SEE CT2220

OG

PG

41+55.96 PVI
ELEV 229.66

44+80.96 EVC
ELEV 231.28

0.50%

46+00.00 PVI
CONFORM

PROFILE
"KID" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

| | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|-------|
| STATION | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | TOTAL |
| Exc | | | | | | | | | |
| Emb | | | | | | | | | |

| | | | | | |
|--------------------------|--------------------------|------------------------|------------------------|------------------|-------------|
| DESIGNED BY A. CANNON | DRAWN BY E. SUDHAUSEN | CHECKED BY S. BROWN | IN CHARGE R. COFFIN | DATE 12/31/13 | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

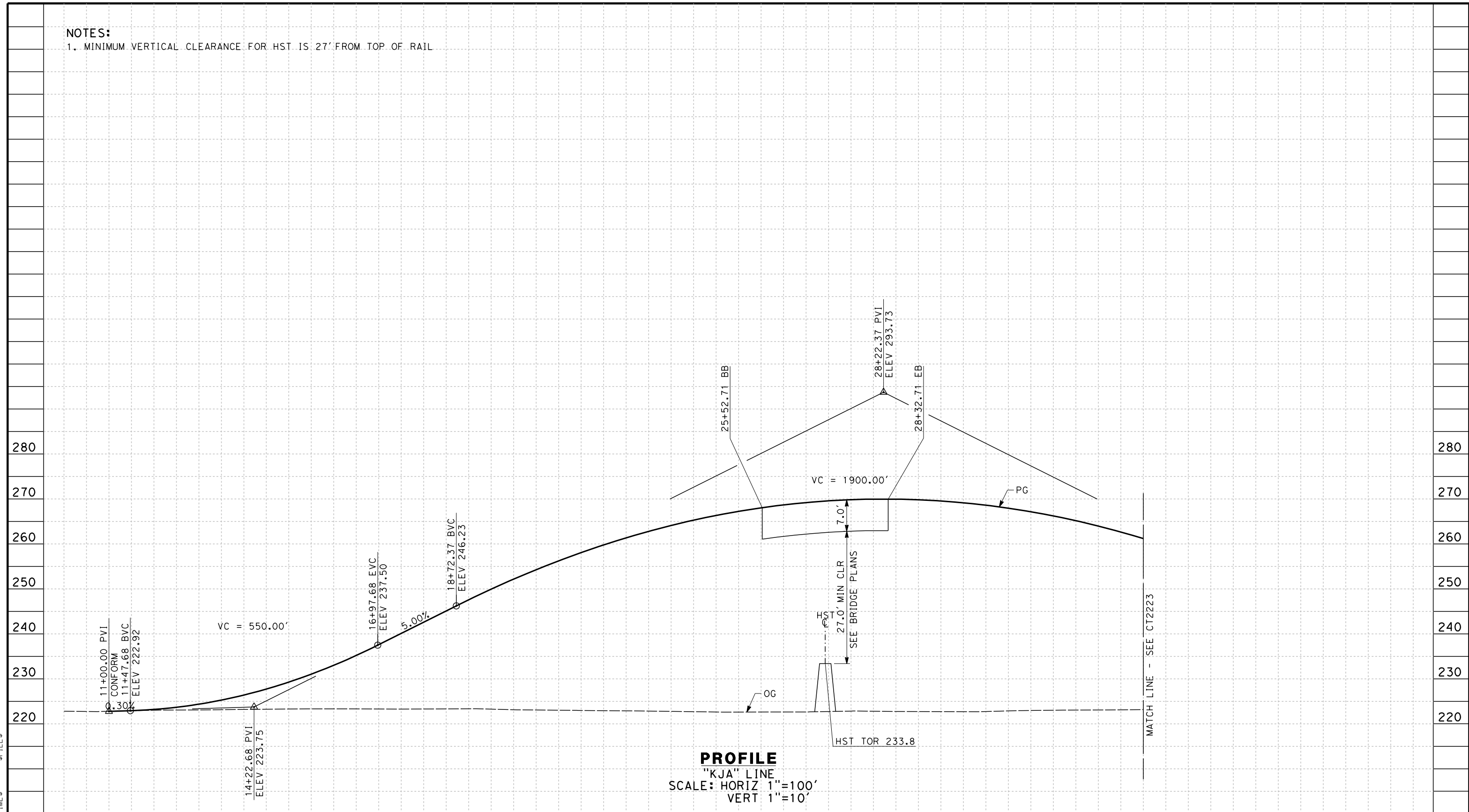


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
IDAHO AVE

| |
|-----------------------------|
| CONTRACT NO. HSR 06-0003 |
| DRAWING NO. CT2221 |
| SCALE AS SHOWN |
| SHEET NO. 13 OF 23 |

NOTES:
 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL



PROFILE
 "KJA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|-------|
| STATION | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|--------------|
| DESIGNED BY | A. CANNON |
| DRAWN BY | E. SUDHAUSEN |
| CHECKED BY | S. BROWN |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
 DESIGN SUBMISSION**

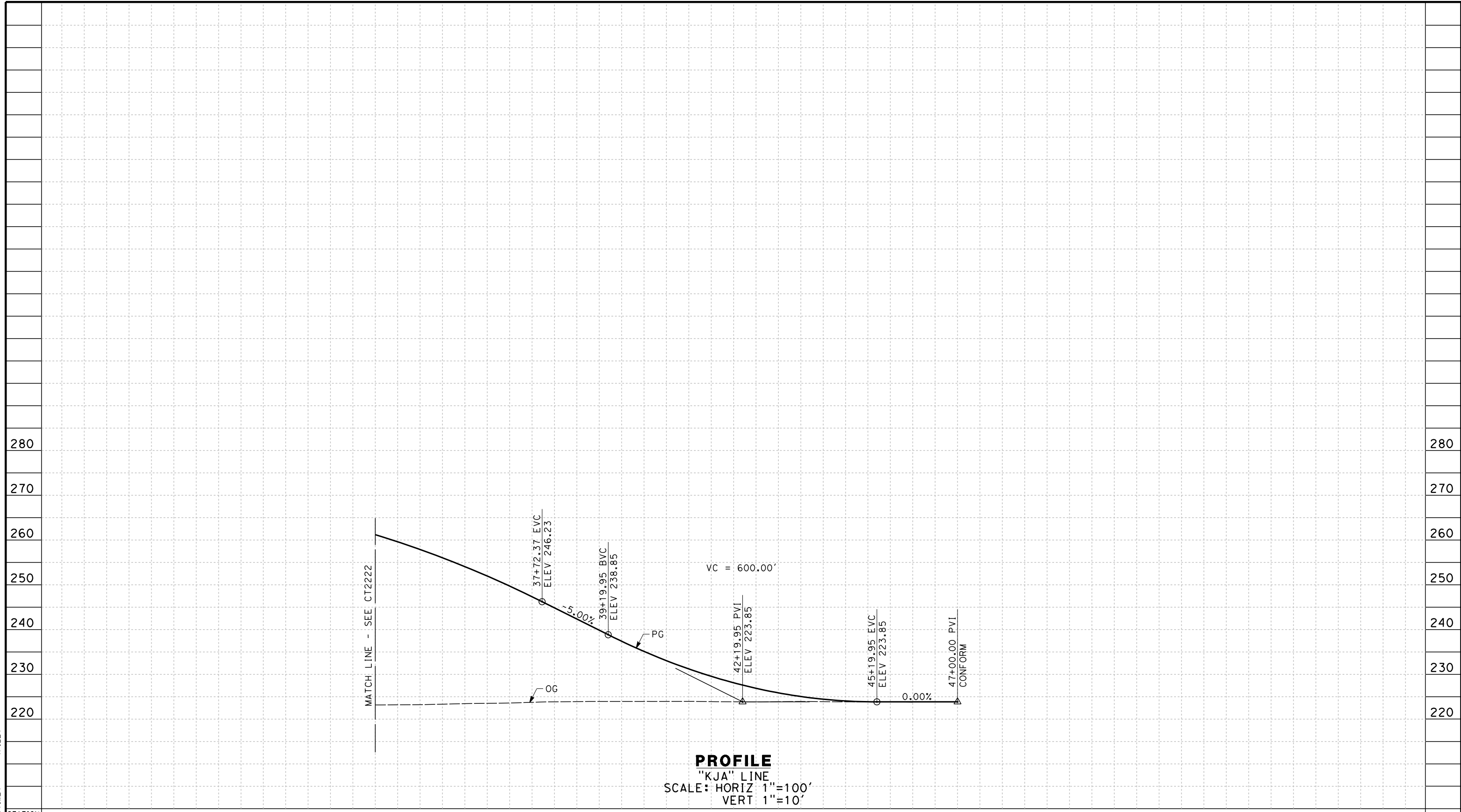
**NOT FOR
 CONSTRUCTION**



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

KAWEAH SUBSECTION
 ALIGNMENT K4
 GRADE SEPARATION PROFILE
 JACKSON AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2222 |
| SCALE | AS SHOWN |
| SHEET NO. | 14 OF 23 |



PROFILE
 "KJA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|---|-------|
| STATION | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | TOTAL |
| Exc | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | |

| | |
|-------------|--------------|
| DESIGNED BY | A. CANNON |
| DRAWN BY | E. SUDHAUSEN |
| CHECKED BY | S. BROWN |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



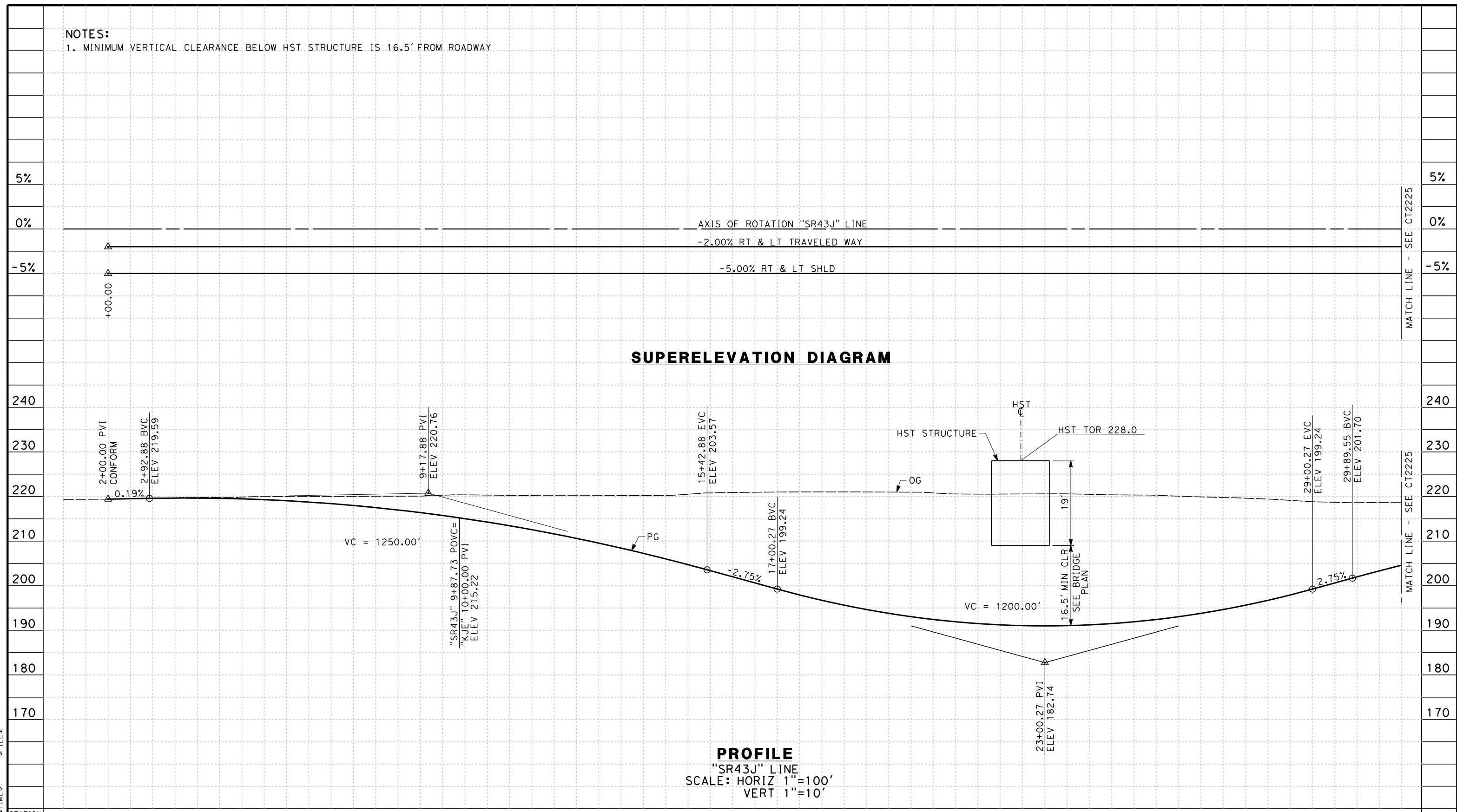
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
 ALIGNMENT K4
 GRADE SEPARATION PROFILE
 JACKSON AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2223 |
| SCALE | AS SHOWN |
| SHEET NO. | 15 OF 23 |

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

NOTES:
 1. MINIMUM VERTICAL CLEARANCE BELOW HST STRUCTURE IS 16.5' FROM ROADWAY



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|-------|
| STATION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|--------------|
| DESIGNED BY | A. CANNON |
| DRAWN BY | E. SUDHAUSEN |
| CHECKED BY | S. BROWN |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
 DESIGN SUBMISSION**

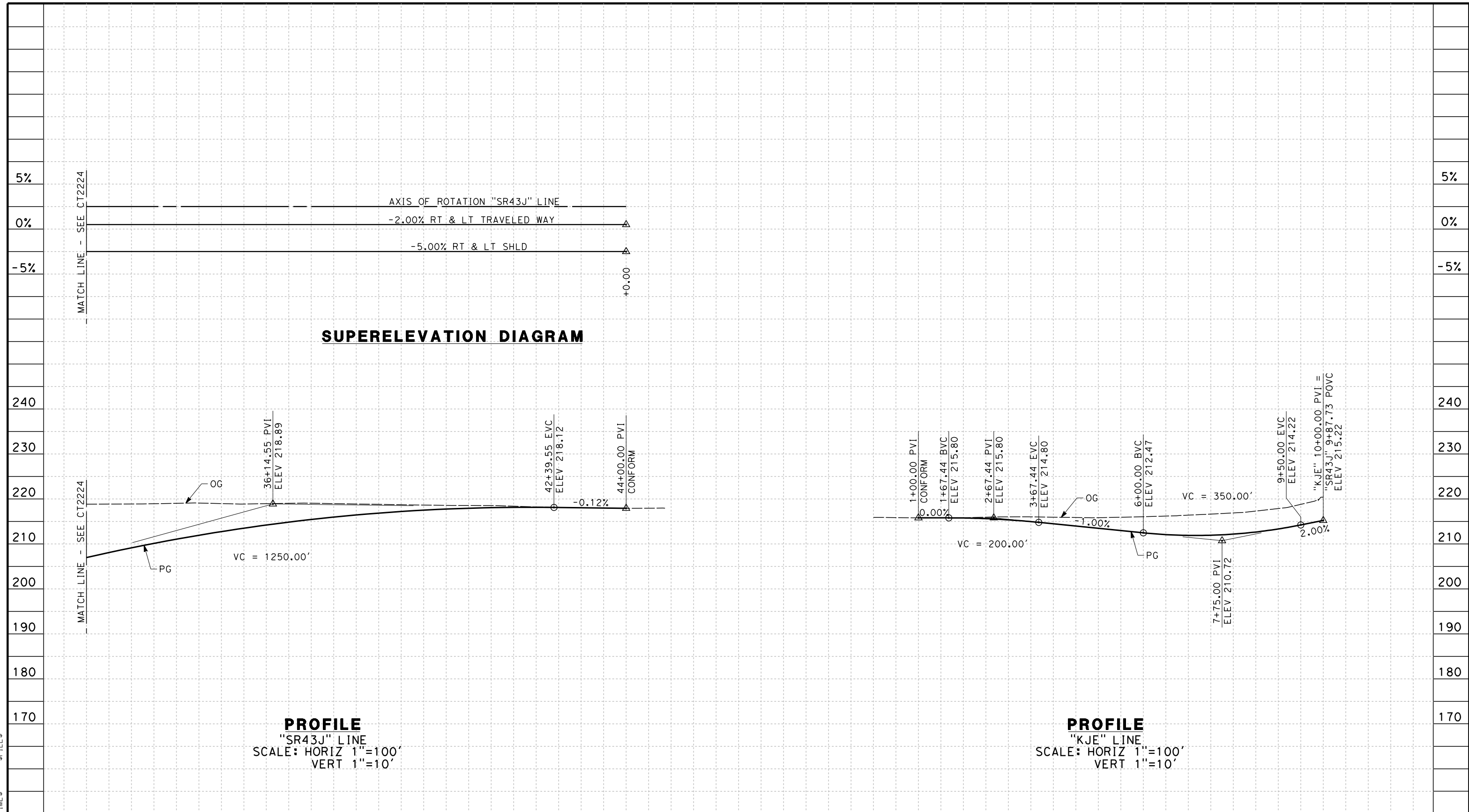
**NOT FOR
 CONSTRUCTION**



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

KAWEAH SUBSECTION
 ALIGNMENT K4
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
 STATE ROUTE 43 (JERSEY AVE)

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2224 |
| SCALE | AS SHOWN |
| SHEET NO. | 16 OF 23 |



| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|---|---|---|---|---|----|-------|--|
| STATION | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|--------------------------|--------------------------|------------------------|------------------------|------------------|-------------|
| DESIGNED BY A. CANNON | DRAWN BY E. SUDHAUSEN | CHECKED BY S. BROWN | IN CHARGE R. COFFIN | DATE 12/31/13 | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

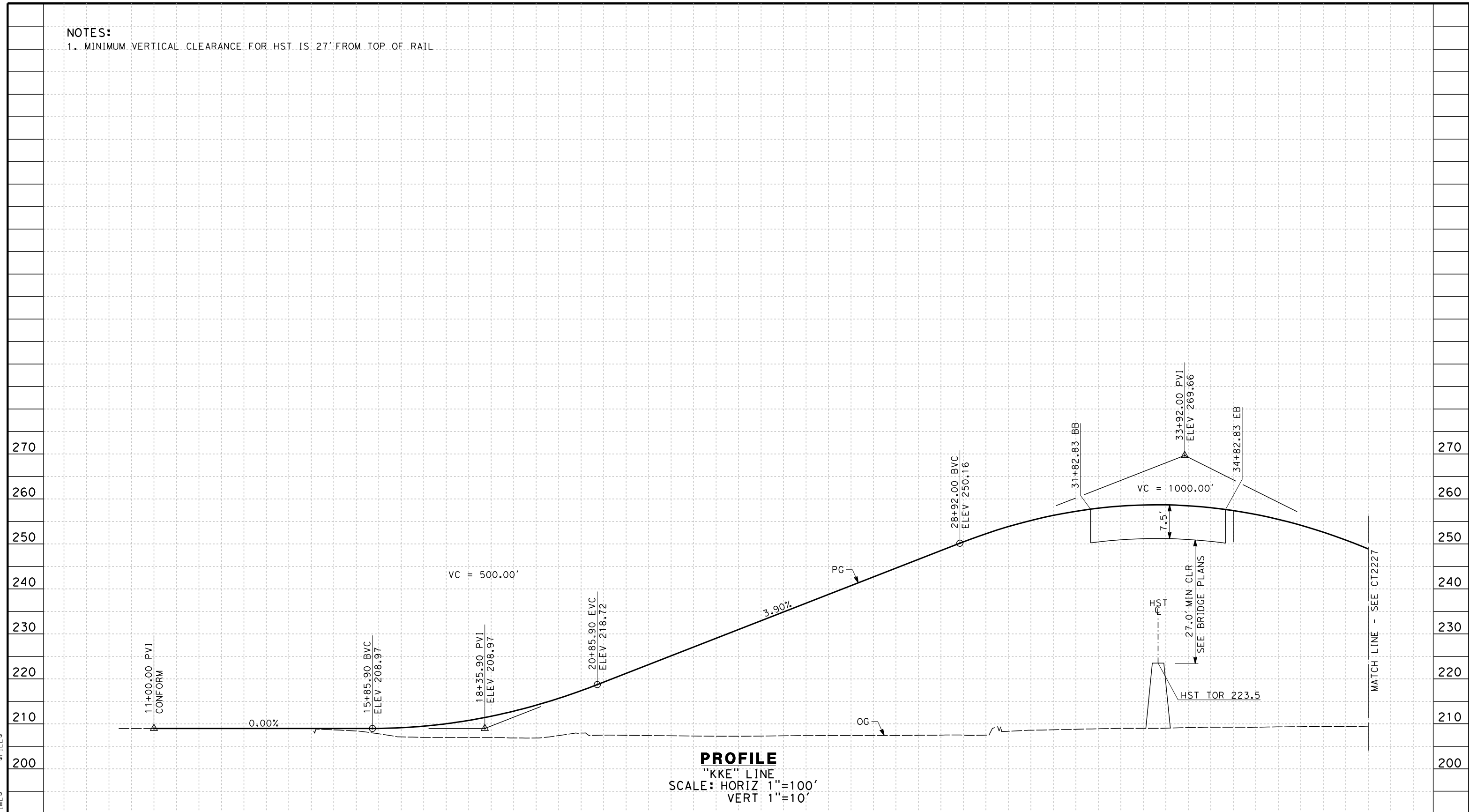


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 (JERSEY AVE)

| |
|-----------------------------|
| CONTRACT NO. HSR 06-0003 |
| DRAWING NO. CT2225 |
| SCALE AS SHOWN |
| SHEET NO. 17 OF 23 |

NOTES:
 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL



PROFILE
 "KKE" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

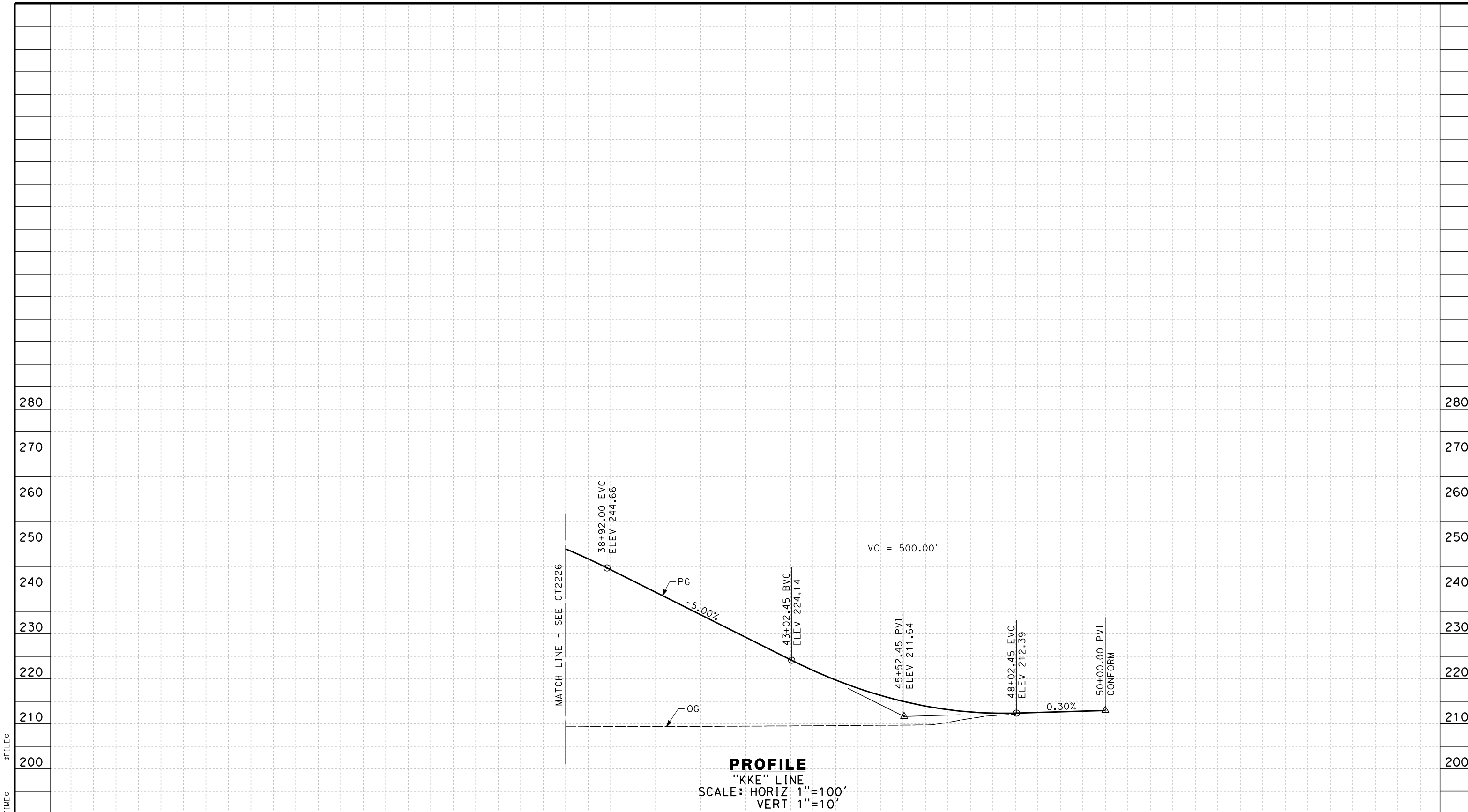
| | |
|--------------------------|--|
| DESIGNED BY A. CANNON | RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION |
| DRAWN BY E. SUDHAUSEN | |
| CHECKED BY S. BROWN | |
| IN CHARGE R. COFFIN | |
| DATE 12/31/13 | |



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 KAWEAH SUBSECTION
 ALIGNMENT K4
 GRADE SEPARATION PROFILE
 KENT AVE

| |
|-----------------------------|
| CONTRACT NO. HSR 06-0003 |
| DRAWING NO. CT2226 |
| SCALE AS SHOWN |
| SHEET NO. 18 OF 23 |

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



PROFILE
 "KKE" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | |
|---------|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | TOTAL |
| Exc | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | |

| | |
|-------------|--------------|
| DESIGNED BY | A. CANNON |
| DRAWN BY | E. SUDHAUSEN |
| CHECKED BY | S. BROWN |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

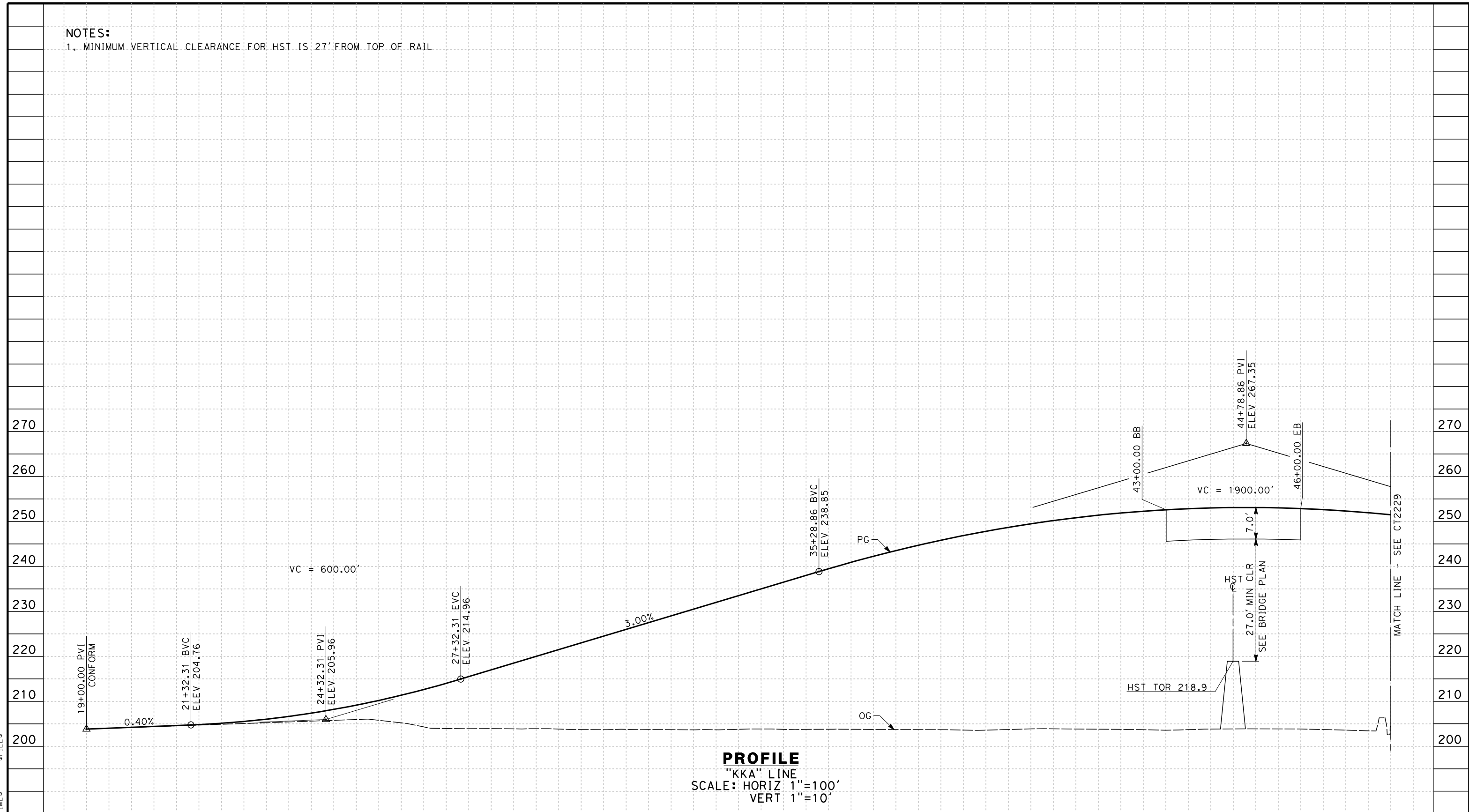


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
 ALIGNMENT K4
 GRADE SEPARATION PROFILE
 KENT AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2227 |
| SCALE | AS SHOWN |
| SHEET NO. | 19 OF 23 |

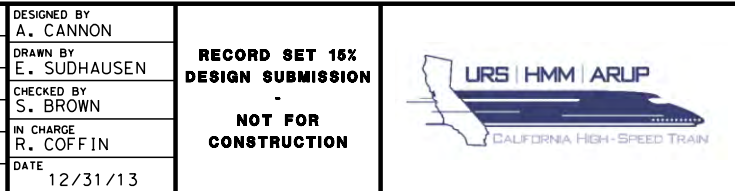
NOTES:
 1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL



PROFILE
 "KKA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

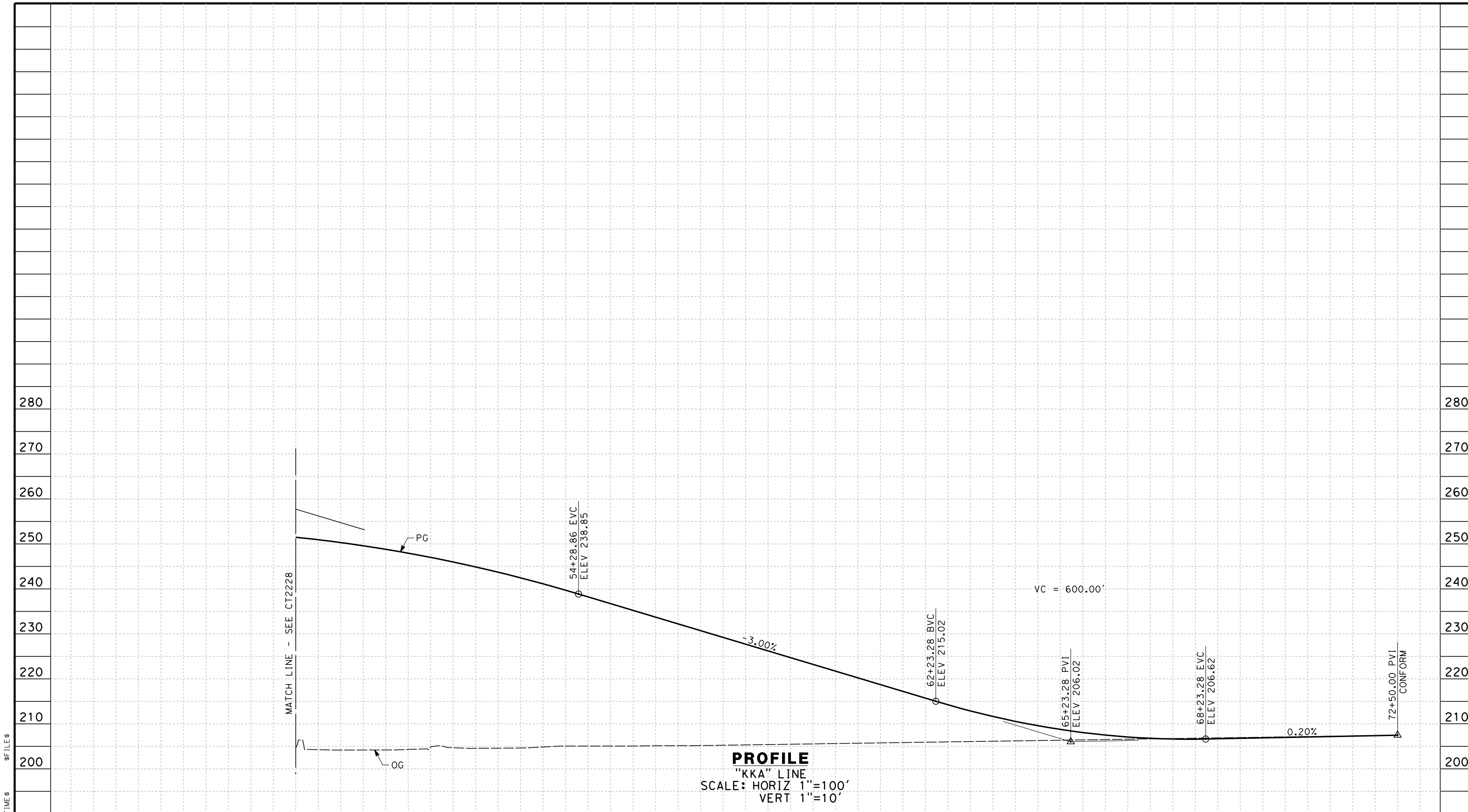
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|--------------------------|--|----|-----|-----|-------------|
| DESIGNED BY A. CANNON | RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION | | | | |
| DRAWN BY E. SUDHAUSEN | | | | | |
| CHECKED BY S. BROWN | | | | | |
| IN CHARGE R. COFFIN | | | | | |
| DATE 12/31/13 | | | | | |
| REV | DATE | BY | CHK | APP | DESCRIPTION |



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 KAWEAH SUBSECTION
 ALIGNMENT K4
 GRADE SEPARATION PROFILE
 KANSAS AVE

| |
|-----------------------------|
| CONTRACT NO. HSR 06-0003 |
| DRAWING NO. CT2228 |
| SCALE AS SHOWN |
| SHEET NO. 20 OF 23 |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 60 | 1 | 2 | 3 | 4 | 65 | 6 | 7 | 8 | 9 | 70 | 1 | 2 | 3 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON

DRAWN BY
E. SUDHAUSEN

CHECKED BY
S. BROWN

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
GRADE SEPARATION PROFILE
KANSAS AVE

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2229

SCALE
AS SHOWN

SHEET NO.
21 OF 23

NOTES:

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

**STRUCTURAL SECTIONS
TYPICAL ROADWAY**

1 0.50' HMA (TYPE A)
1.00' CL2 AB

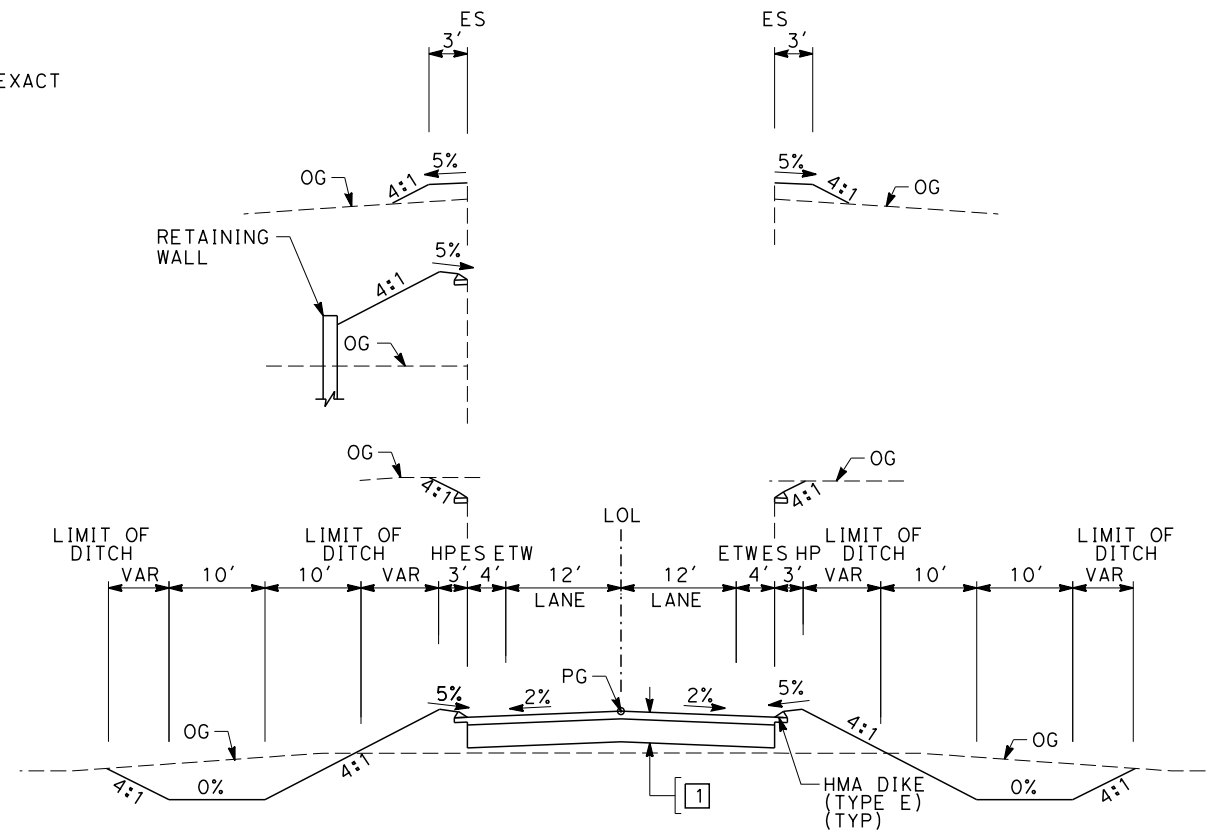
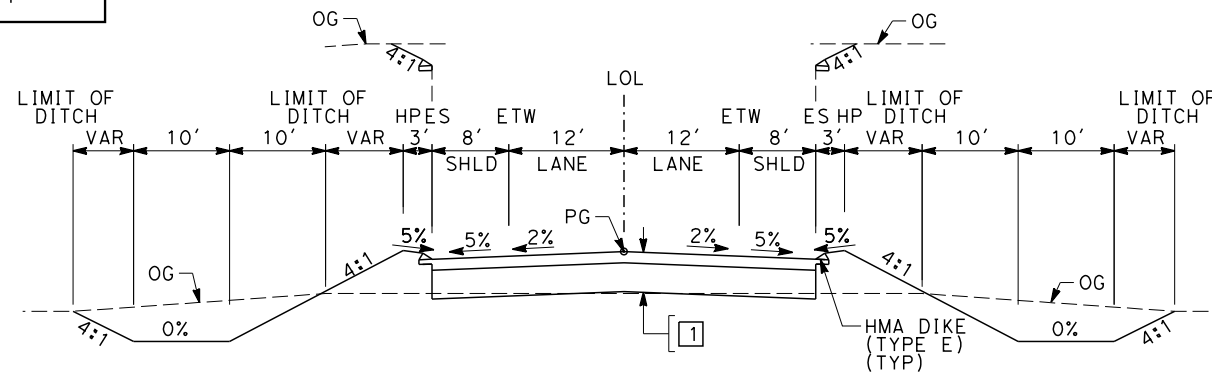


TABLE OF DESIGN SPEEDS

| STREET NAME | ALIGNMENT DESIGNATION | DESIGN SPEED | CRITERIA/JURISDICTION |
|--------------------|-----------------------|--------------|-----------------------|
| IDAHO AVE | KID | 55 | HDM/KINGS COUNTY |
| JACKSON AVE | KJA | 55 | HDM/KINGS COUNTY |
| SR 43 (JERSEY AVE) | SR43J | 70 | HDM/CALTRANS |
| KENT AVE | KKE | 45 | HDM/KINGS COUNTY |
| KANSAS AVE | KKA | 60 | HDM/KINGS COUNTY |

SECTION A

"KID" 10+00.00 TO 26+43.38
 "KID" 29+33.38 TO 46+00.00
 "KJE" 1+00.00 TO 10+00.00
 "KKE" 11+00.00 TO 31+82.83
 "KKE" 34+82.83 TO 50+00.00
 "KKA" 19+00.00 TO 43+00.00
 "KKA" 46+00.00 TO 72+50.00



SECTION B

"KJA" 11+00.00 TO 25+52.71
 "KJA" 28+32.71 TO 47+00.00

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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
A. CANNON
 DRAWN BY
E. SUDHAUSEN
 CHECKED BY
S. BROWN
 IN CHARGE
R. COFFIN
 DATE
12/31/13

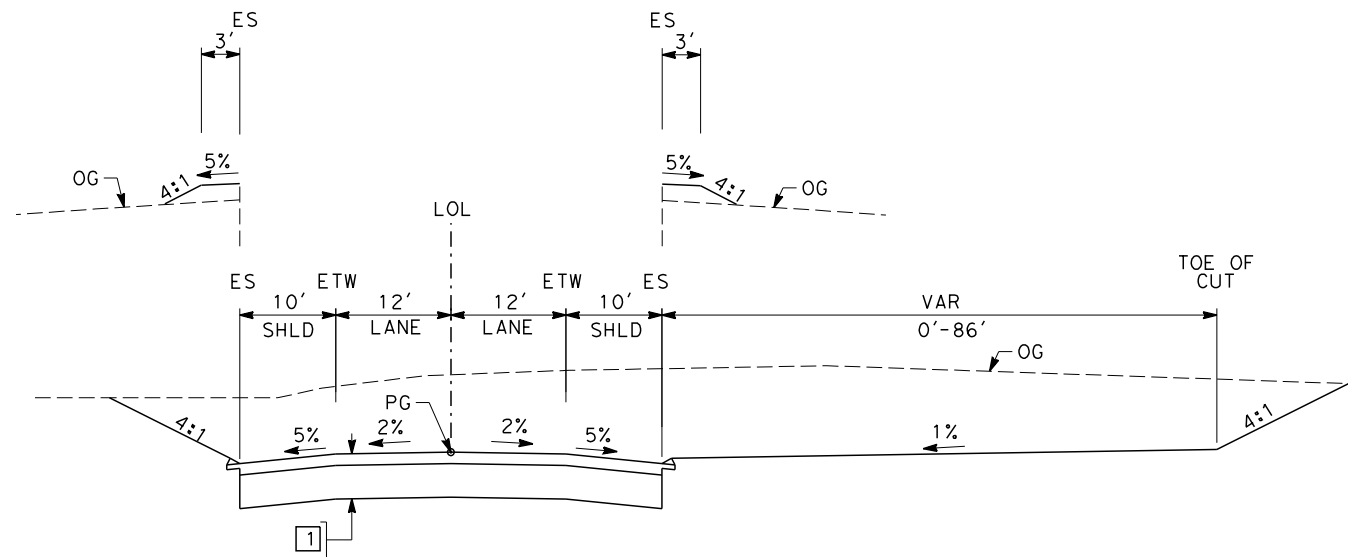
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K4
 ROADWAY / GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT3230
 SCALE
NO SCALE
 SHEET NO.
22 OF 23



SECTION C

"SR43J" 2+00.00 TO 44+00.00

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

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
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
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3231
SCALE
NO SCALE
SHEET NO.
23 OF 23

12/29/2013 10:11:46 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \bar59603\dot150092\FB-CB0235-K5.dgn



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK

DRAWN BY
P. BARBER

CHECKED BY
T. CLIFFORD

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
ROADWAY/GRADE SEPARATION
KEY MAP

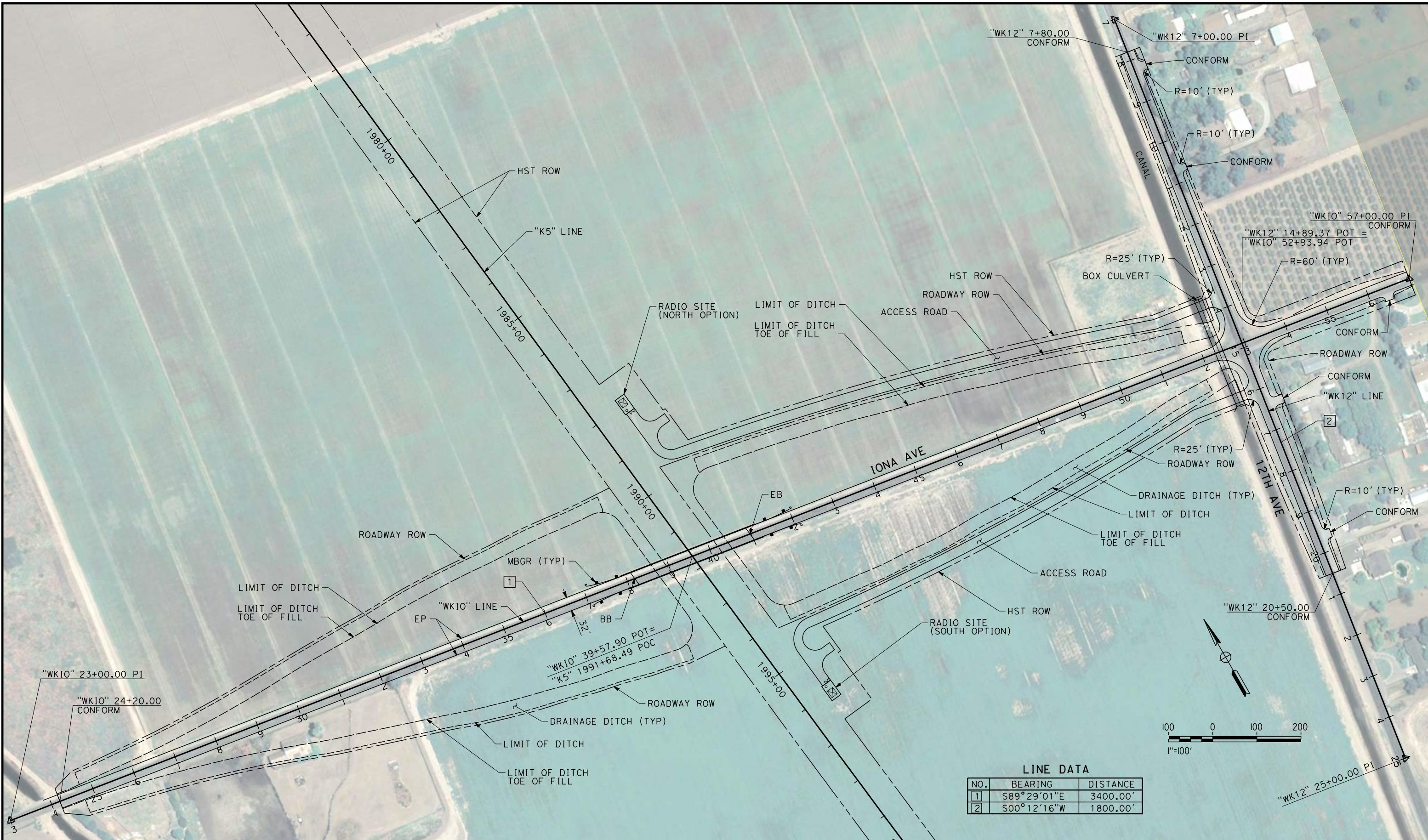
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CB0235

SCALE
AS SHOWN

SHEET NO.
1 OF 30

12/30/2013 10:25:11 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603\external\bar59603-CT-1553-K5.dgn



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

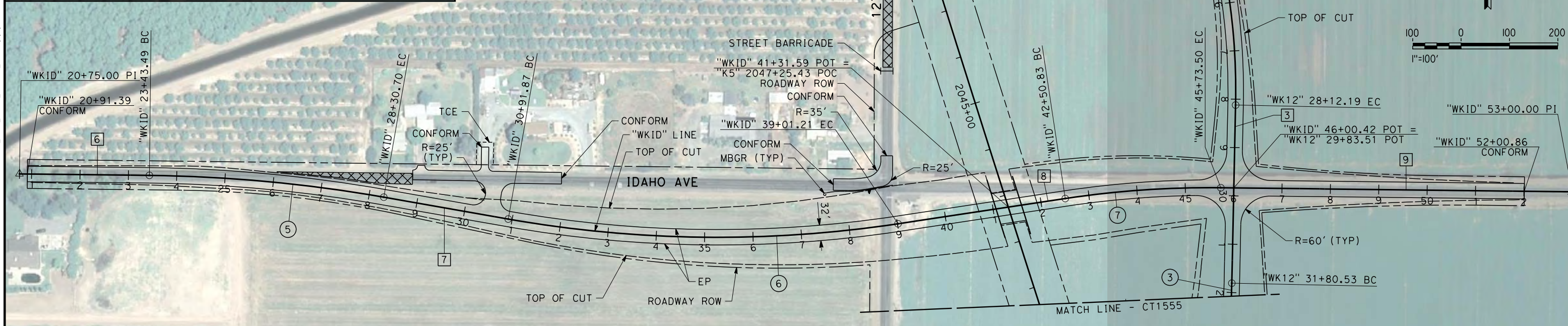
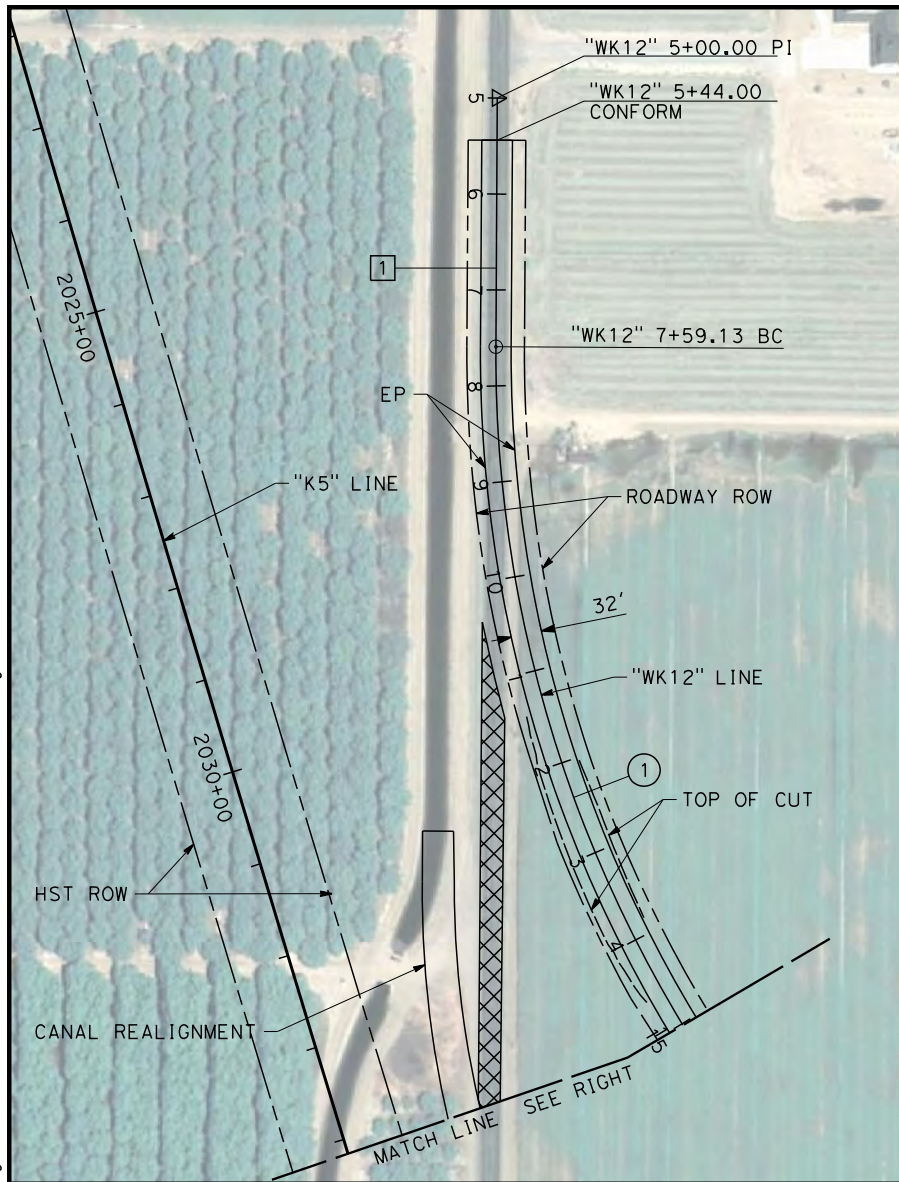
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K5
GRADE SEPARATION LAYOUT
IONA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1553
SCALE
AS SHOWN
SHEET NO.
2 OF 30

12/29/2013 10:13:32 AM CAHSR-r1.tbl CHSR_PDF_half_block_2000.ctb \\bar59603\d0150092\FB-CT-1554-K5.dgn

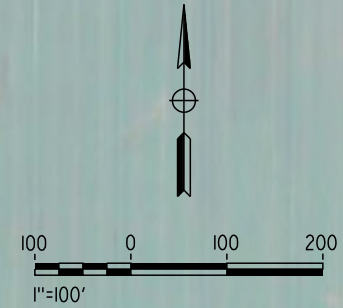


LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-------------|----------|
| 1 | S00°20'29"W | 259.13' |
| 2 | S36°43'27"E | 285.58' |
| 3 | S01°13'27"E | 368.34' |
| 6 | S89°20'22"E | 268.49' |
| 7 | S80°02'04"E | 261.16' |
| 8 | N81°24'60"E | 349.62' |
| 9 | S89°20'22"E | 726.50' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| 1 | 1350.00' | 37°03'56" | 452.56' | 873.34' |
| 2 | 1350.00' | 37°56'54" | 464.16' | 894.14' |
| 3 | 1350.00' | 34°02'47" | 413.32' | 802.18' |
| 5 | 3000.00' | 09°18'18" | 244.14' | 487.21' |
| 6 | 2500.00' | 18°32'56" | 408.25' | 809.35' |
| 7 | 2000.00' | 09°14'38" | 161.69' | 322.67' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

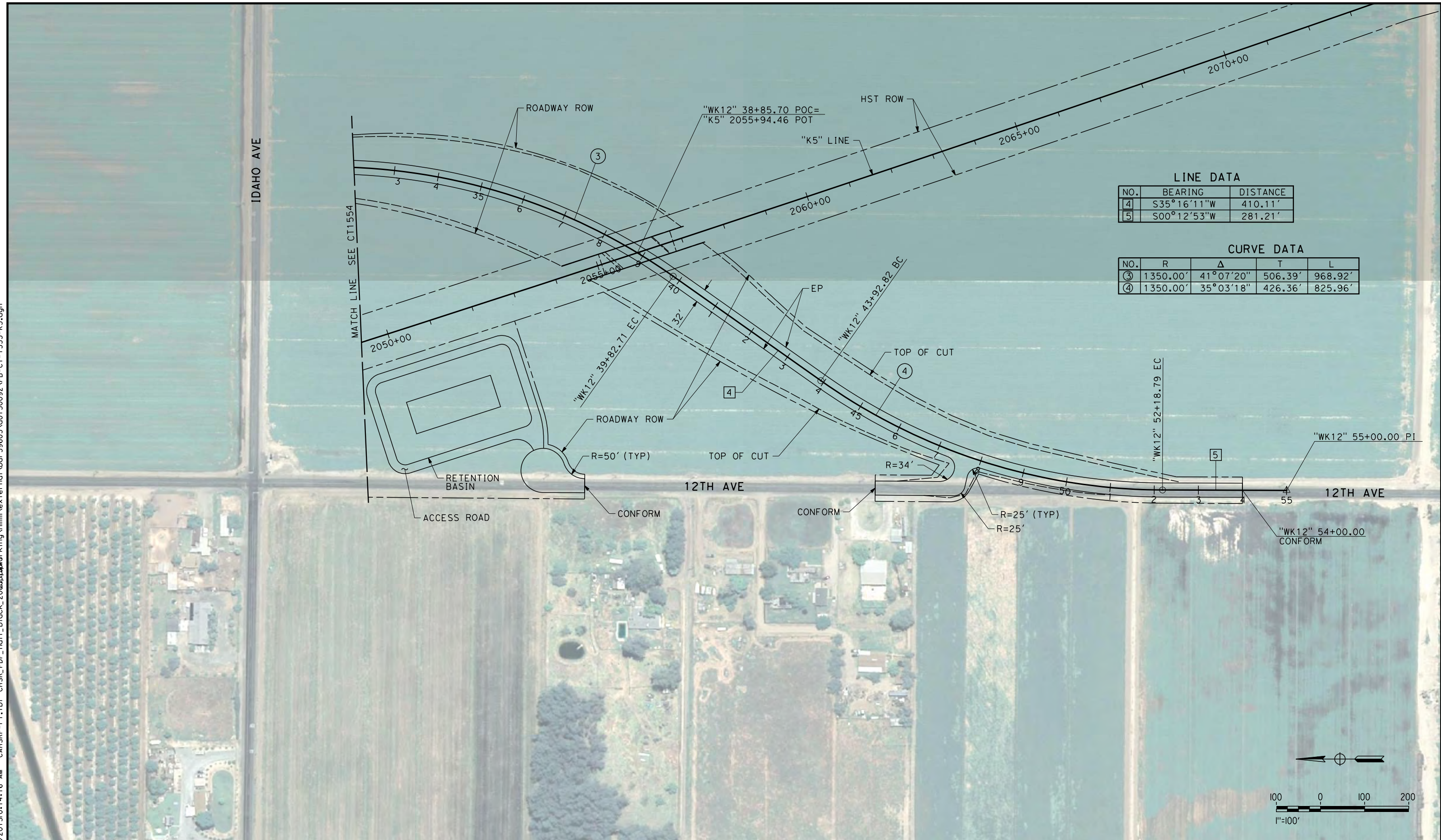


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K5
GRADE SEPARATION LAYOUT
12TH AVE / IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1554
SCALE
AS SHOWN
SHEET NO.
3 OF 30

12/29/2013 10:14:16 AM CAHSR-r1.tbl CHSR_PDF_half_block_200dpi.ctb \\bar59603\d0150092\FB-CT-1555-K5.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-------------|----------|
| 4 | S35°16'11"W | 410.11' |
| 5 | S00°12'53"W | 281.21' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| ③ | 1350.00' | 41°07'20" | 506.39' | 968.92' |
| ④ | 1350.00' | 35°03'18" | 426.36' | 825.96' |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

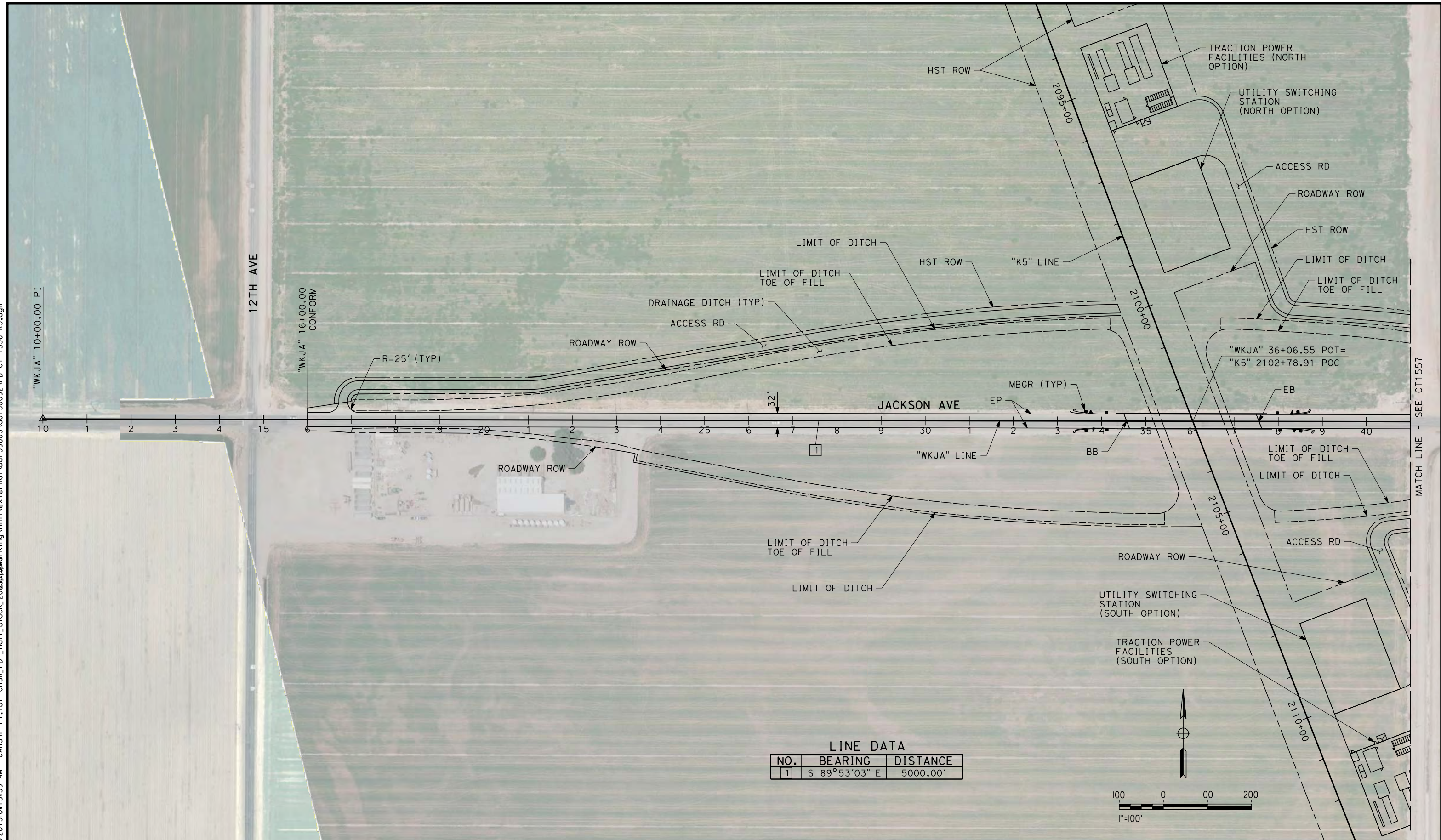


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K5
GRADE SEPARATION LAYOUT
12TH AVE / IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1555
SCALE
AS SHOWN
SHEET NO.
4 OF 30

12/29/2013 10:15:39 AM CAHSR-r1.tbl CHSR_PDF_half_block_200dpi.ctb \\bar59603\d0150092\FB-CT-1556-K5.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°53'03" E | 5000.00' |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

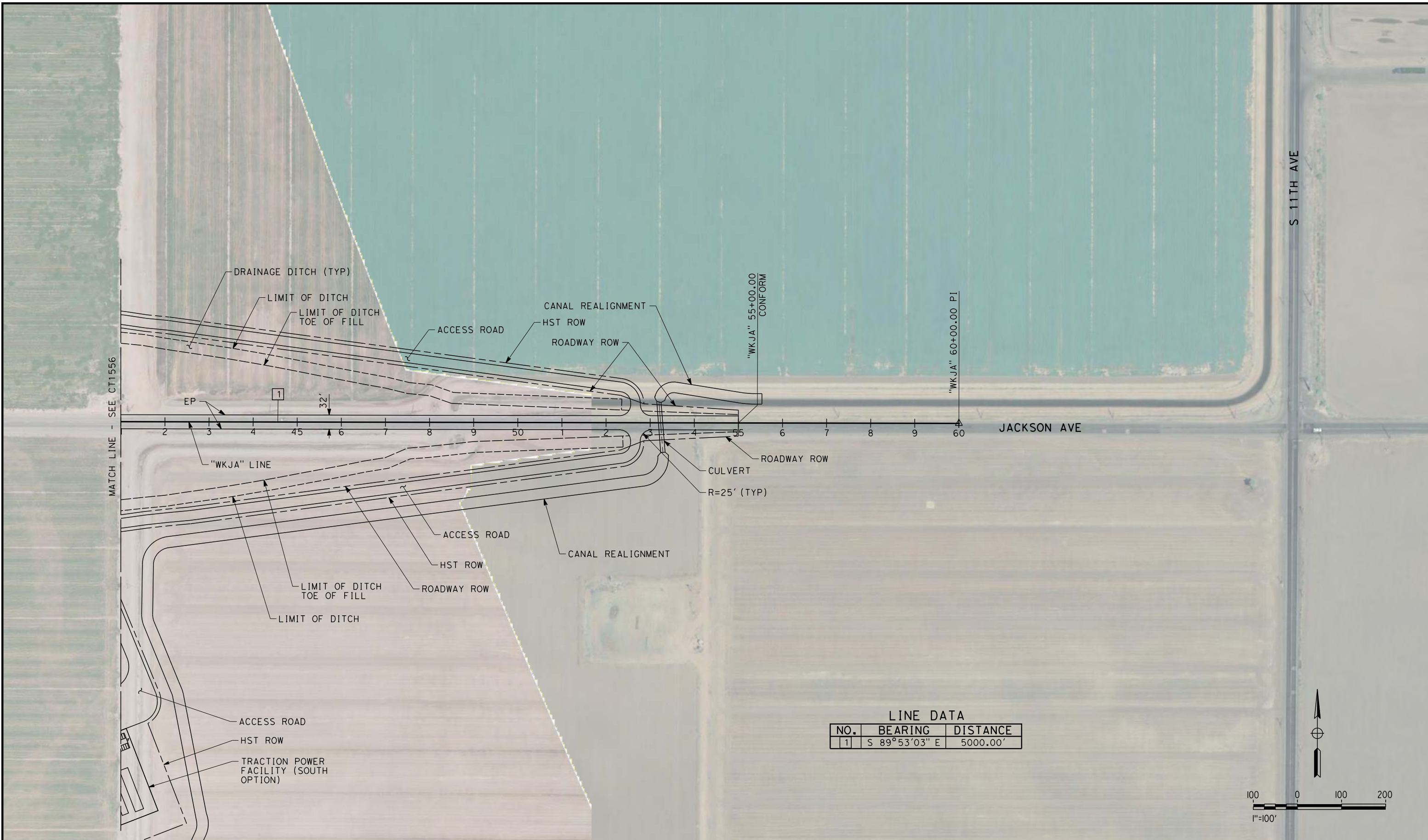


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K5
GRADE SEPARATION LAYOUT
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1556
SCALE
AS SHOWN
SHEET NO.
5 OF 30

12/29/2013 10:16:38 AM CAHSR-r1.tbl CHSR_PDF_half_block_200dpi.dwg \bar59603\d0150092\FB-CT-1557-K5.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°53'03" E | 5000.00' |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
JACKSON AVE

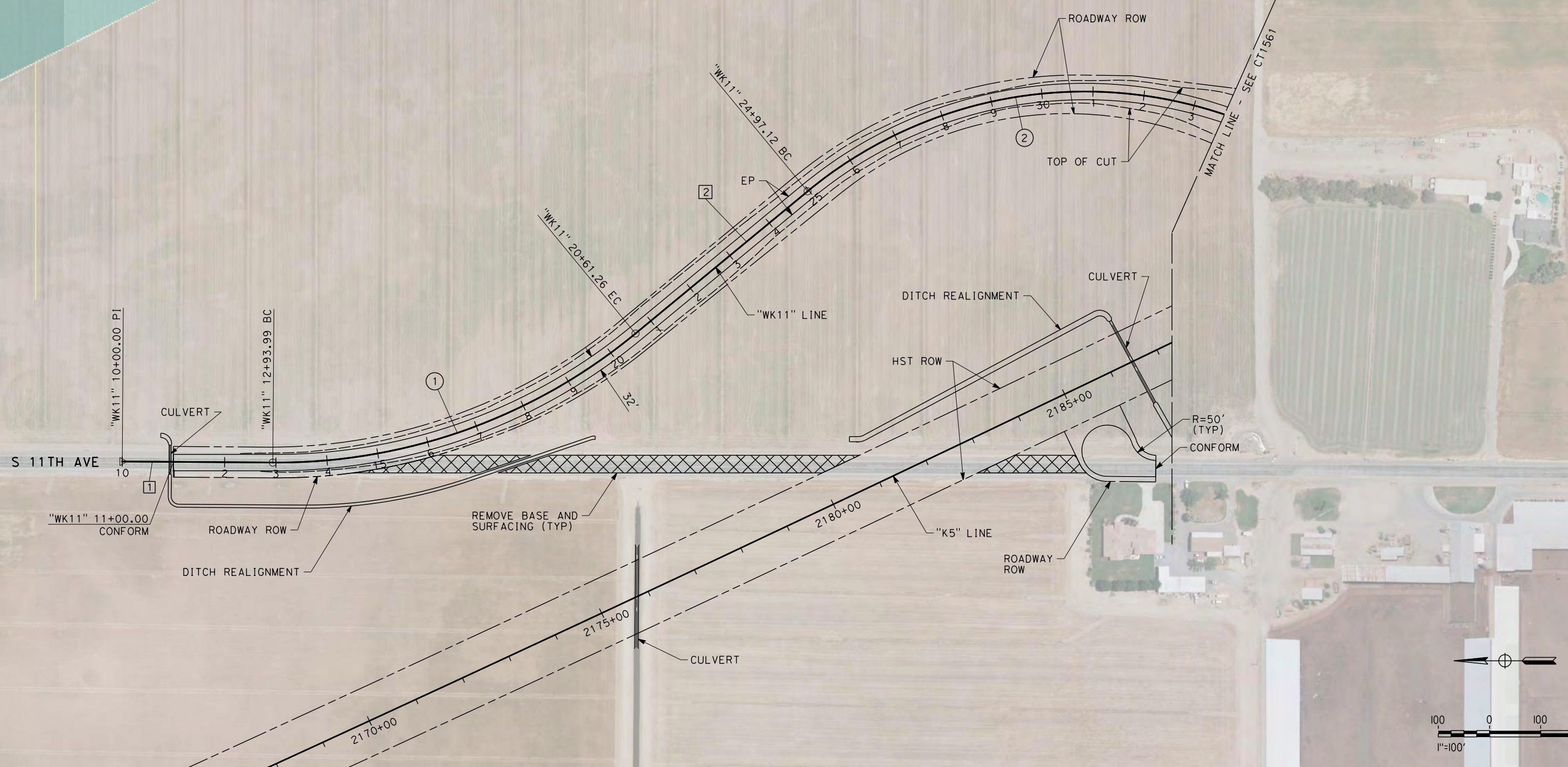
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1557
SCALE
AS SHOWN
SHEET NO.
6 OF 30

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 00°24'13" W | 293.99' |
| 2 | S 39°33'40" E | 435.86' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|----------|
| ① | 1100.00' | 39°57'54" | 399.99' | 767.27' |
| ② | 850.00' | 80°25'37" | 718.65' | 1193.16' |



12/29/2013 10:18:19 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-1560-K5.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

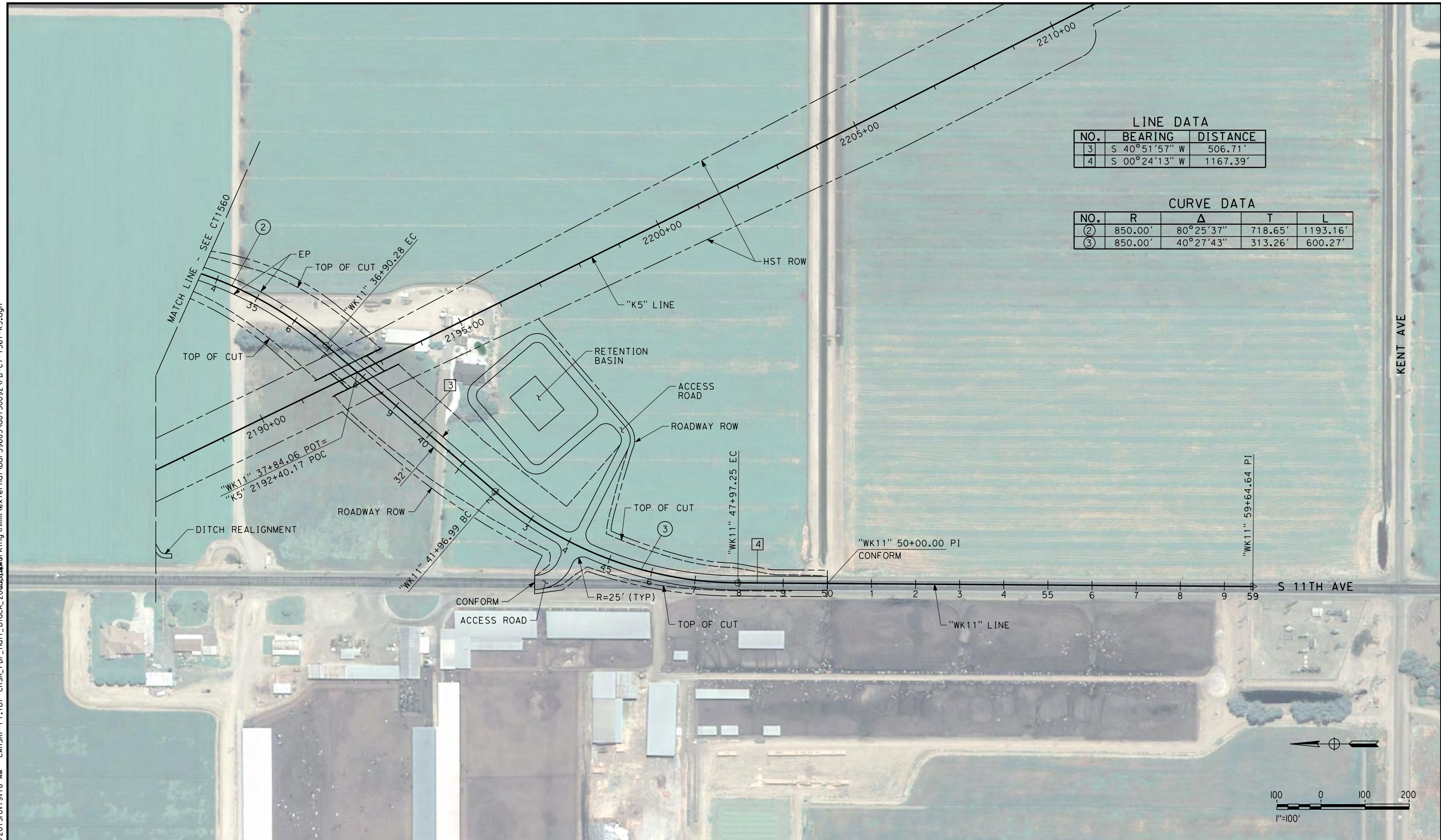
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K5
GRADE SEPARATION LAYOUT
S 11TH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1560
SCALE
AS SHOWN
SHEET NO.
7 OF 30

12/29/2013 10:19:18 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-1561-K5.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 3 | S 40°51'57" W | 506.71' |
| 4 | S 00°24'13" W | 1167.39' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|---------|-----------|---------|----------|
| ② | 850.00' | 80°25'37" | 718.65' | 1193.16' |
| ③ | 850.00' | 40°27'43" | 313.26' | 600.27' |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
S 11TH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1561
SCALE
AS SHOWN
SHEET NO.
8 OF 30

12/29/2013 10:20:10 AM CAHSR-r1.tbl CHSR_PDF_half_block_200dpi.ctb \\bar59603\d0150092\FB-CT-1566-K5.dgn

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | N 89°46'17" E | 2481.85' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|-----------|-----------|---------|---------|
| 1 | 20000.00' | 01°19'35" | 231.52' | 463.03' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1566
SCALE
AS SHOWN
SHEET NO.
9 OF 30

LINE DATA

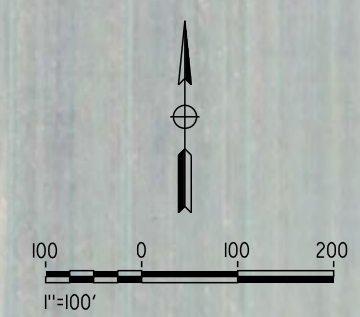
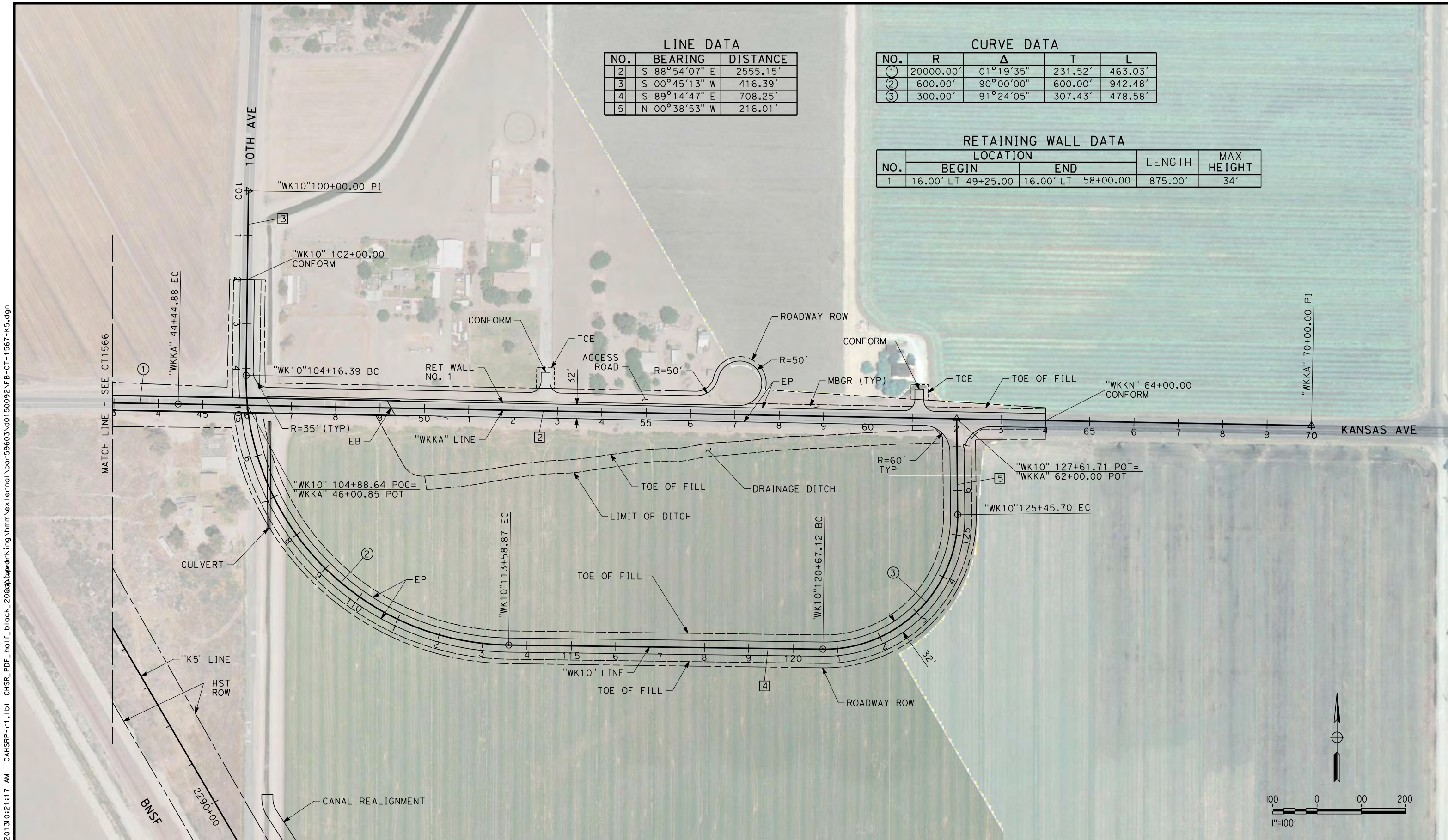
| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 2 | S 88°54'07" E | 2555.15' |
| 3 | S 00°45'13" W | 416.39' |
| 4 | S 89°14'47" E | 708.25' |
| 5 | N 00°38'53" W | 216.01' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|-----------|-----------|---------|---------|
| ① | 20000.00' | 01°19'35" | 231.52' | 463.03' |
| ② | 600.00' | 90°00'00" | 600.00' | 942.48' |
| ③ | 300.00' | 91°24'05" | 307.43' | 478.58' |

RETAINING WALL DATA

| NO. | LOCATION | | LENGTH | MAX HEIGHT |
|-----|--------------------|--------------------|---------|------------|
| | BEGIN | END | | |
| 1 | 16.00' LT 49+25.00 | 16.00' LT 58+00.00 | 875.00' | 34' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1567
SCALE
AS SHOWN
SHEET NO.
10 OF 30

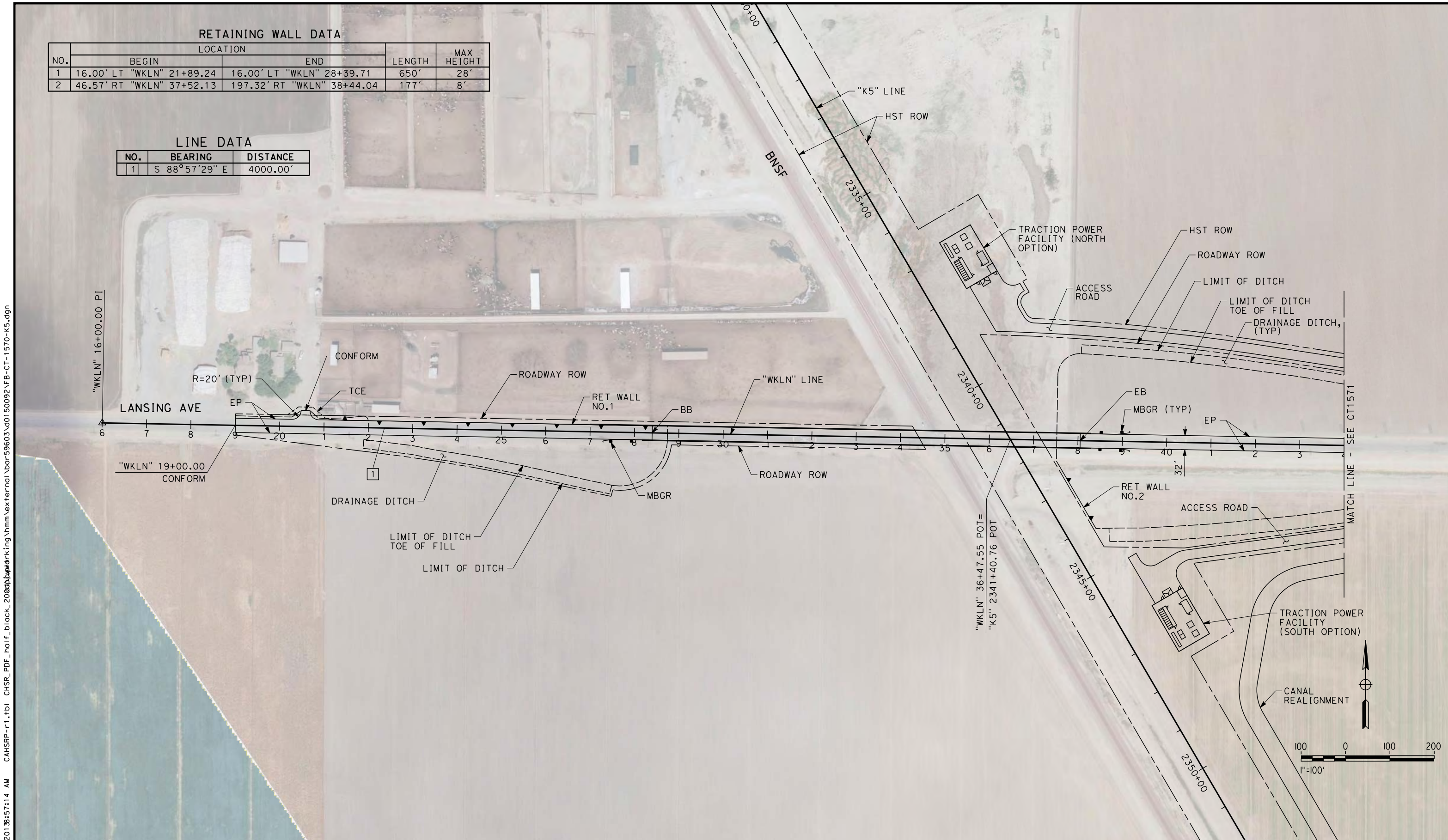
12/29/2013 10:21:17 AM CAHSR-r1.tbl CHSR_PDF_half_block_200dpi.ctb \\bar59603\d0150092\FB-CT-1567-K5.dgn

RETAINING WALL DATA

| NO. | LOCATION | | LENGTH | MAX HEIGHT |
|-----|---------------------------|----------------------------|--------|------------|
| | BEGIN | END | | |
| 1 | 16.00' LT "WKLN" 21+89.24 | 16.00' LT "WKLN" 28+39.71 | 650' | 28' |
| 2 | 46.57' RT "WKLN" 37+52.13 | 197.32' RT "WKLN" 38+44.04 | 177' | 8' |

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 88°57'29" E | 4000.00' |



12/31/2013 8:57:14 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-11570-K5.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
LANSING AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1570
SCALE
AS SHOWN
SHEET NO.
11 OF 30

12/29/2013 10:23:01 AM CAHSR-r1.tbl CHSR_PDF_half_block_200dpi.ctb \\bar59603\d0150092\FB-CT-1571-K5.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 88°57'29" E | 4000.00' |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

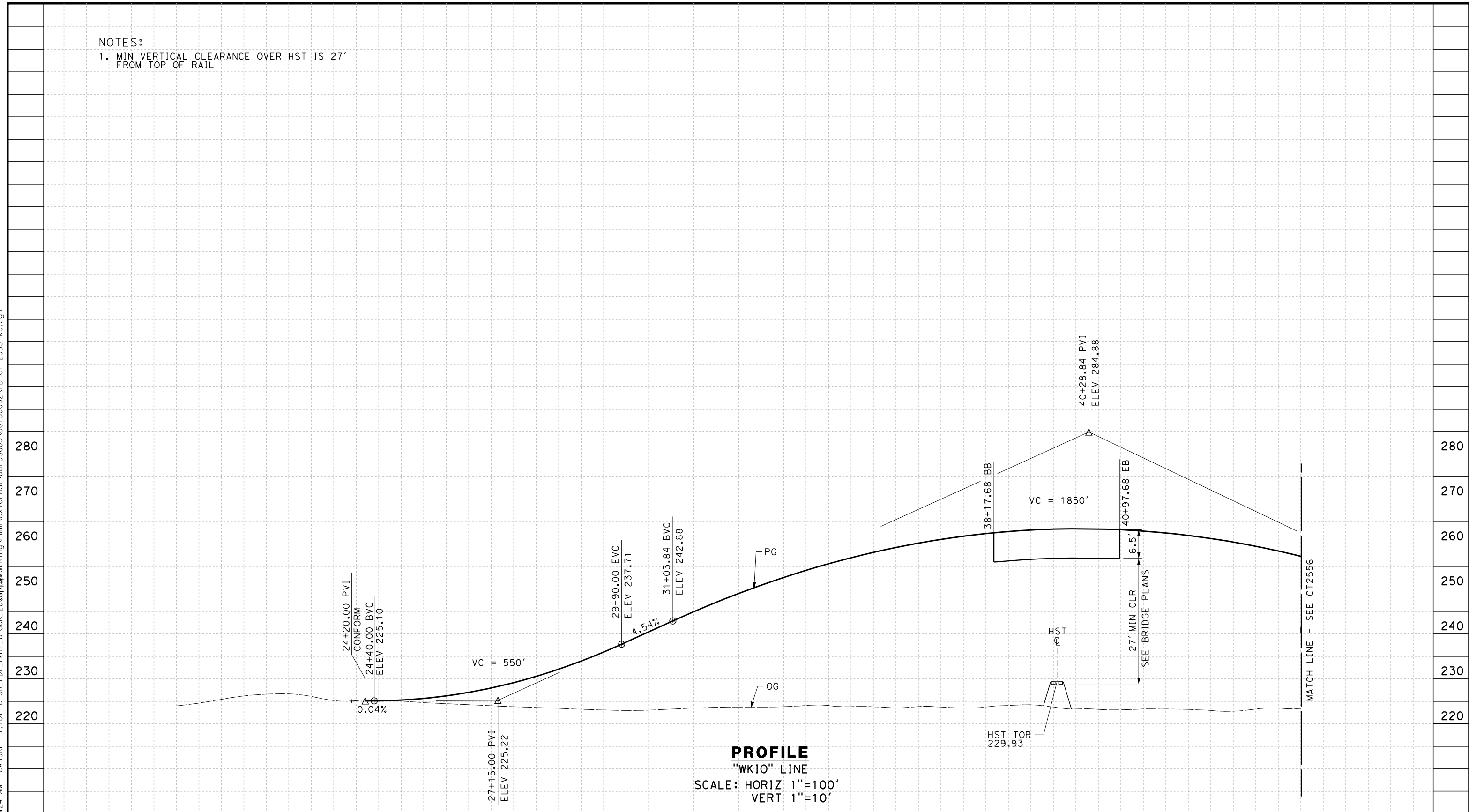
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K5
GRADE SEPARATION LAYOUT
LANSING AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1571
SCALE
AS SHOWN
SHEET NO.
12 OF 30

NOTES:
 1. MIN VERTICAL CLEARANCE OVER HST IS 27'
 FROM TOP OF RAIL



PROFILE
 "WK10" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

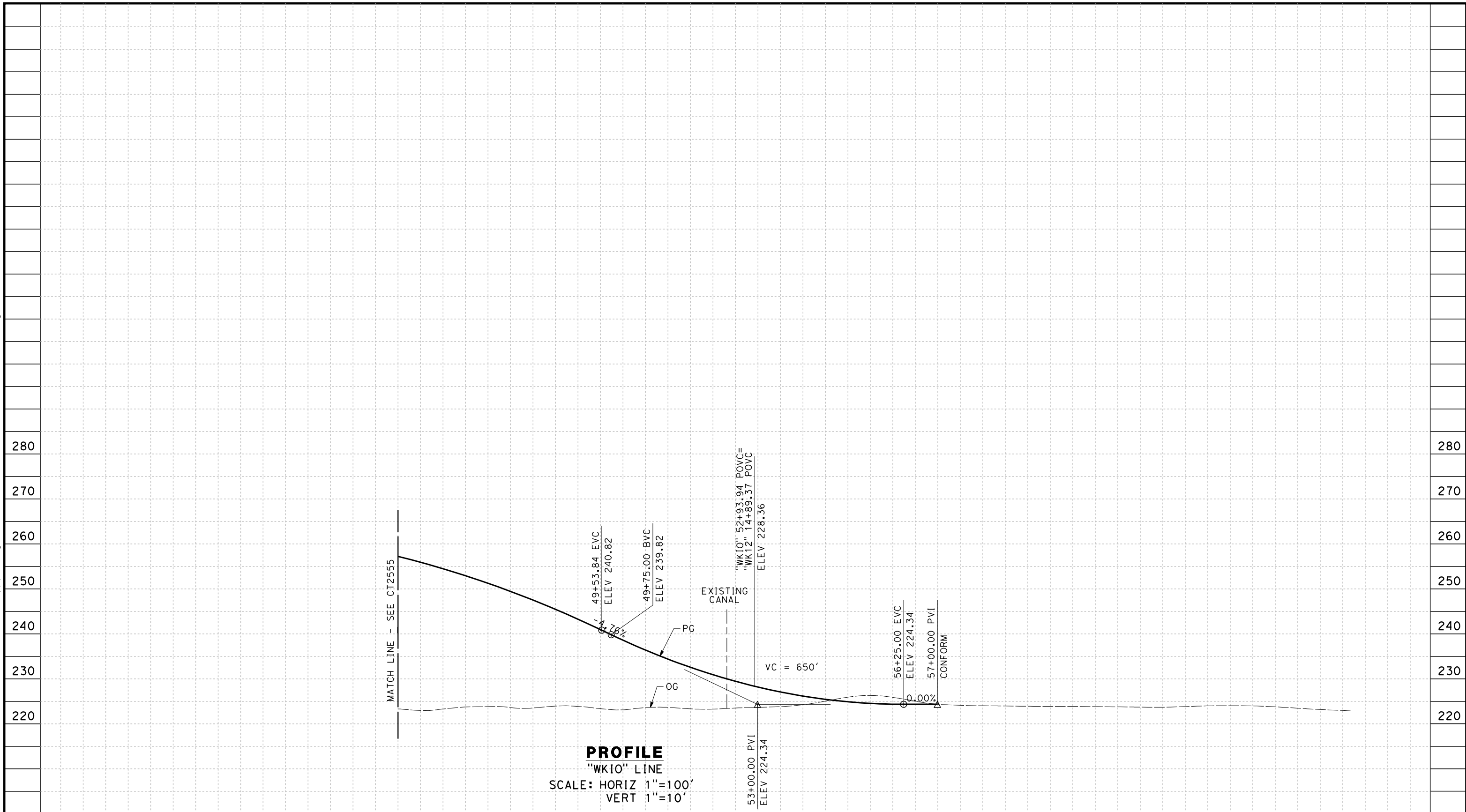


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 IONA AVE

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT2555
 SCALE
 AS SHOWN
 SHEET NO.
 13 OF 30

12/29/2013 10:23:24 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\d0150092\FB-CT-2555-K5.dgn

12/29/2013 10:23:52 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\ad0150092\FB-CT-2556-K5.dgn



| | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 60 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

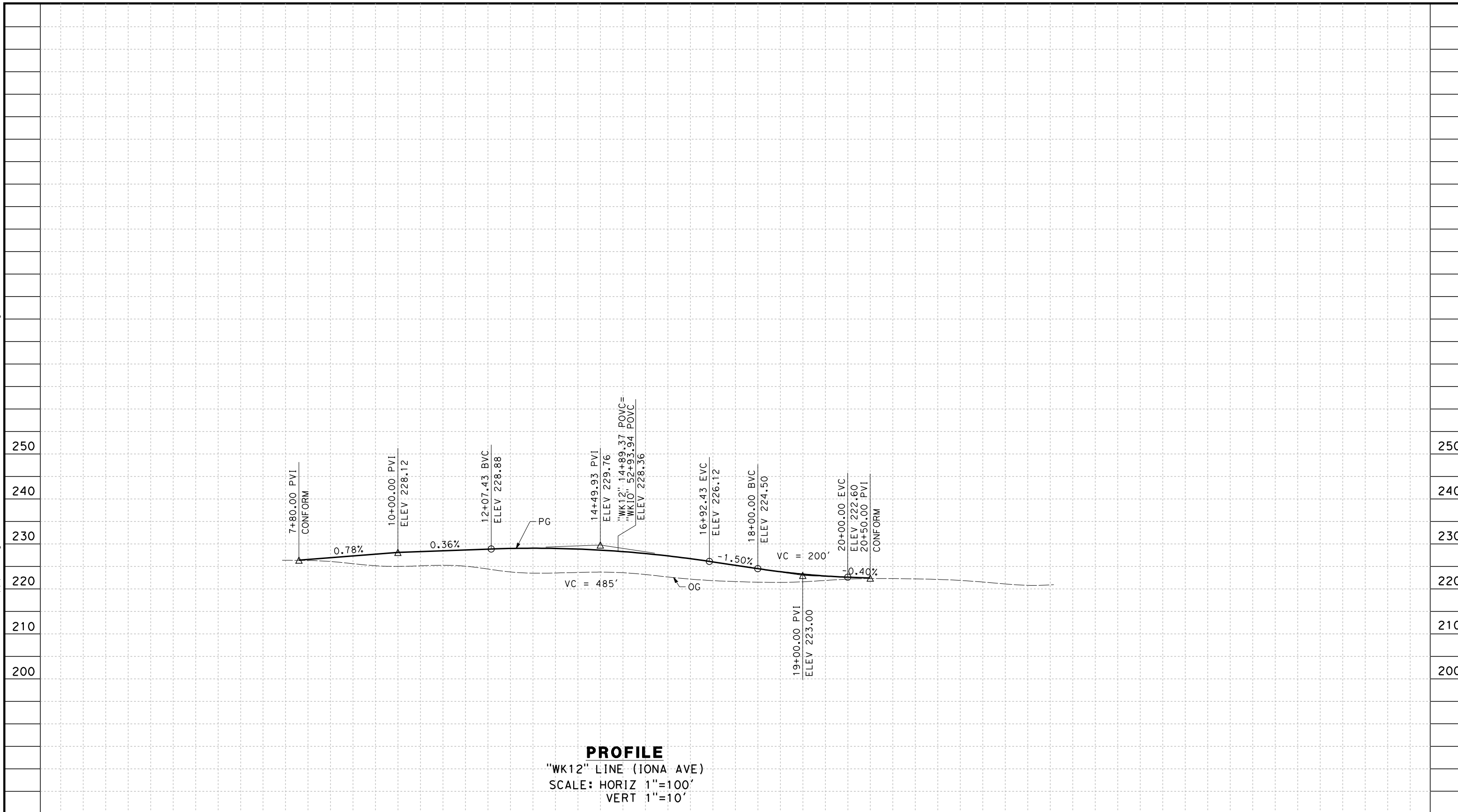
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K5
GRADE SEPARATION PROFILE
IONA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2556
SCALE
AS SHOWN
SHEET NO.
14 OF 30

12/29/2013 10:24:22 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\d0150092\FB-CT-2557-K5.dgn



PROFILE
 "WK12" LINE (IONA AVE)
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



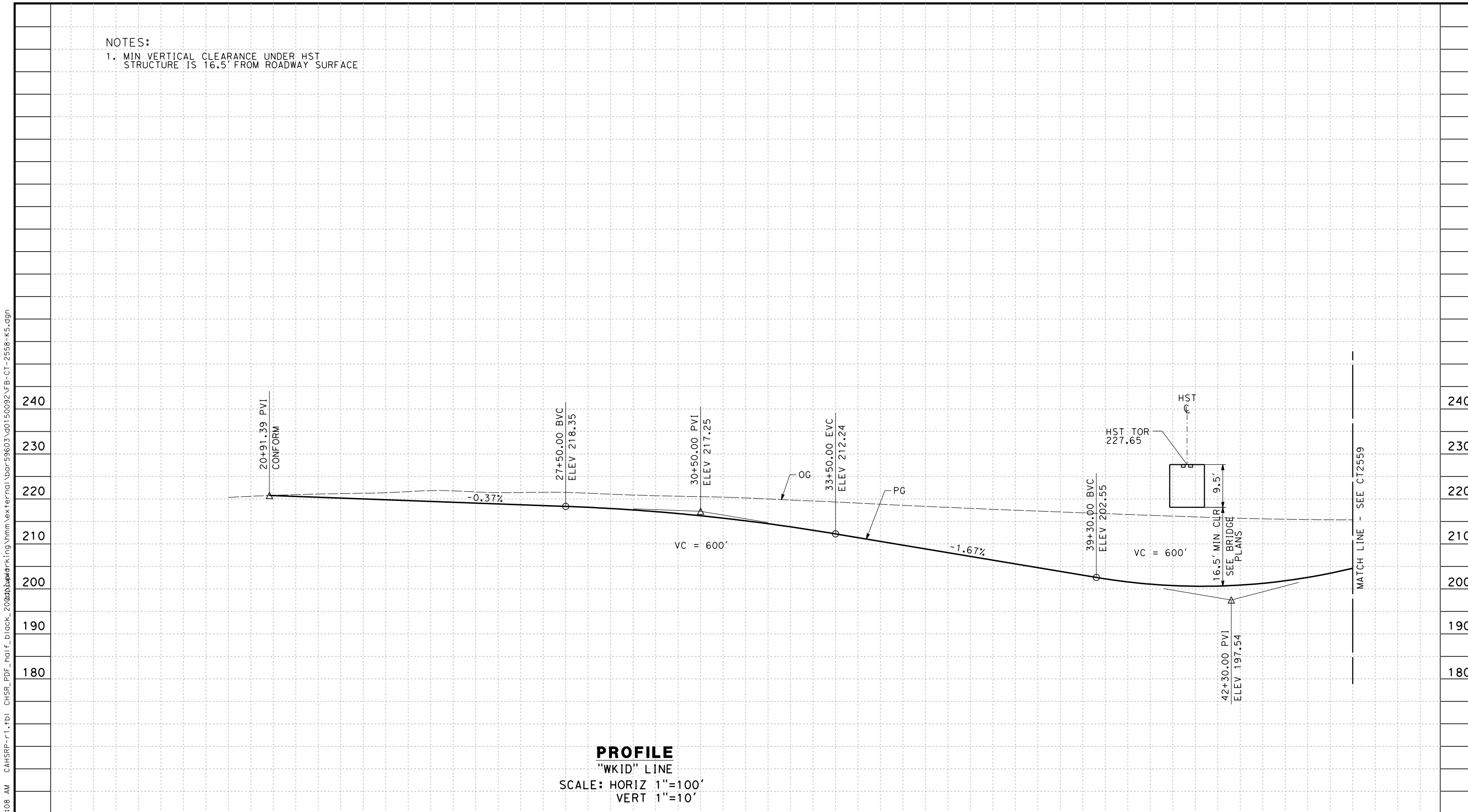
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 12TH AVE (IONA AVE)

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2557
 SCALE
AS SHOWN
 SHEET NO.
15 OF 30

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROADWAY SURFACE

12/29/2013 10:25:08 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\ad0150092\FB-CT-2558-K5.dgn



PROFILE
"WKID" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|-------------|
| DESIGNED BY | I. JOSIFEK |
| DRAWN BY | P. BARBER |
| CHECKED BY | T. CLIFFORD |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

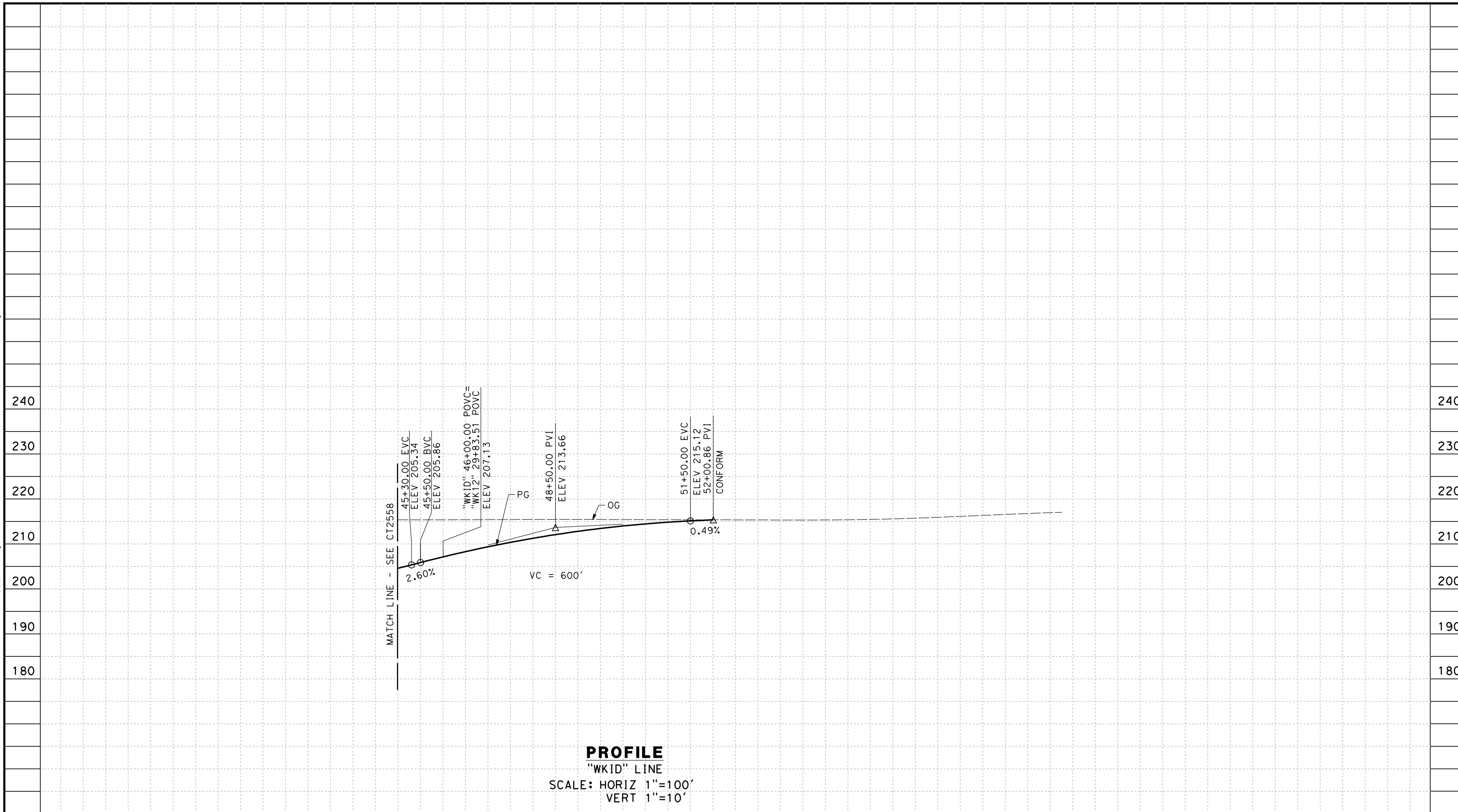


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
ALIGNMENT K5
GRADE SEPARATION PROFILE
IDAHO AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2558 |
| SCALE | AS SHOWN |
| SHEET NO. | 16 OF 30 |

12/29/2013 10:25:46 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\bar59603\d0150092\FB-CT-2559-K5.dgn



PROFILE
 "WKID" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 60 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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

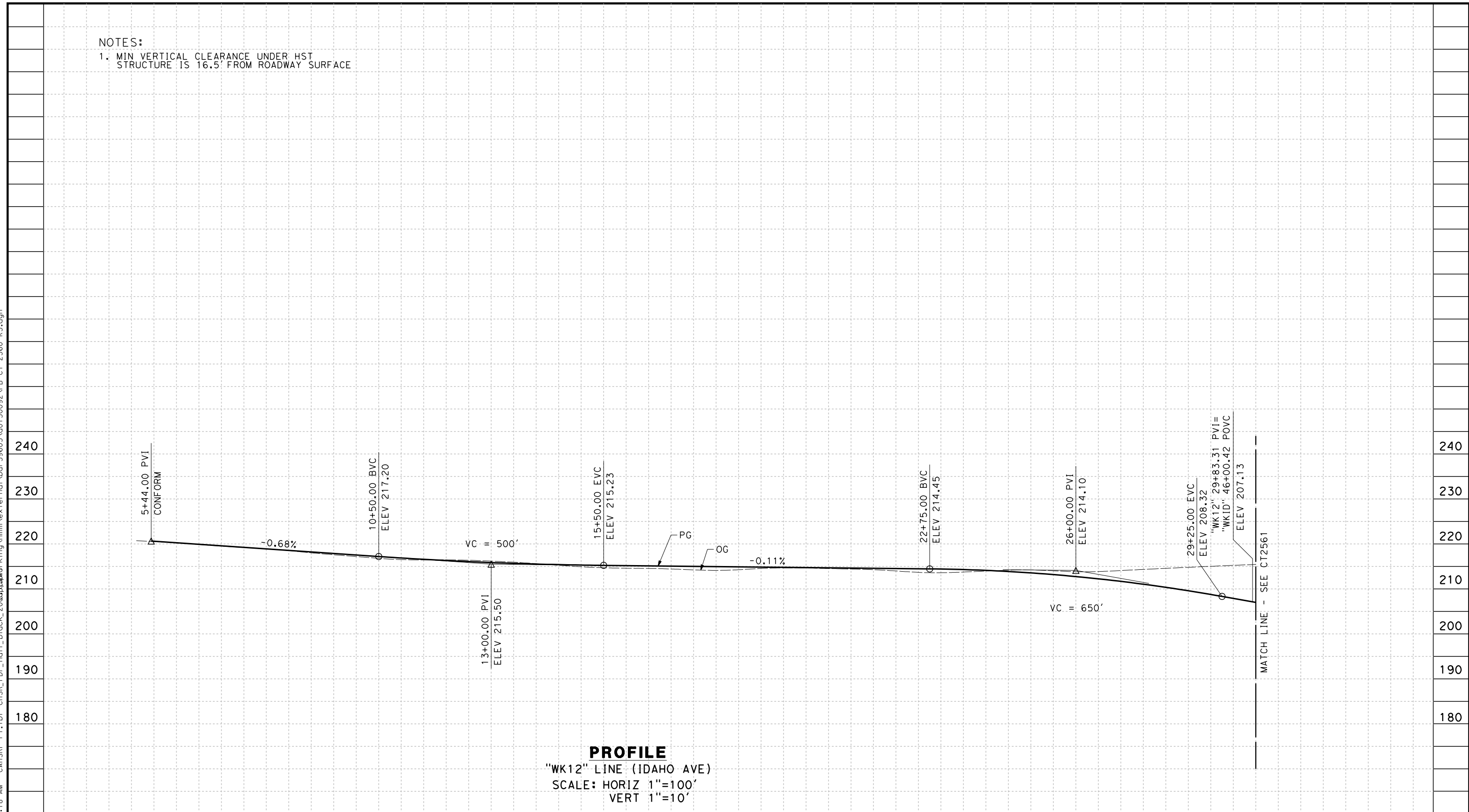


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 IDAHO AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2559
 SCALE
AS SHOWN
 SHEET NO.
17 OF 30

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROADWAY SURFACE



PROFILE
 "WK12" LINE (IDAHO AVE)
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|--|
| STATION | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|-------------|
| DESIGNED BY | I. JOSIFEK |
| DRAWN BY | P. BARBER |
| CHECKED BY | T. CLIFFORD |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



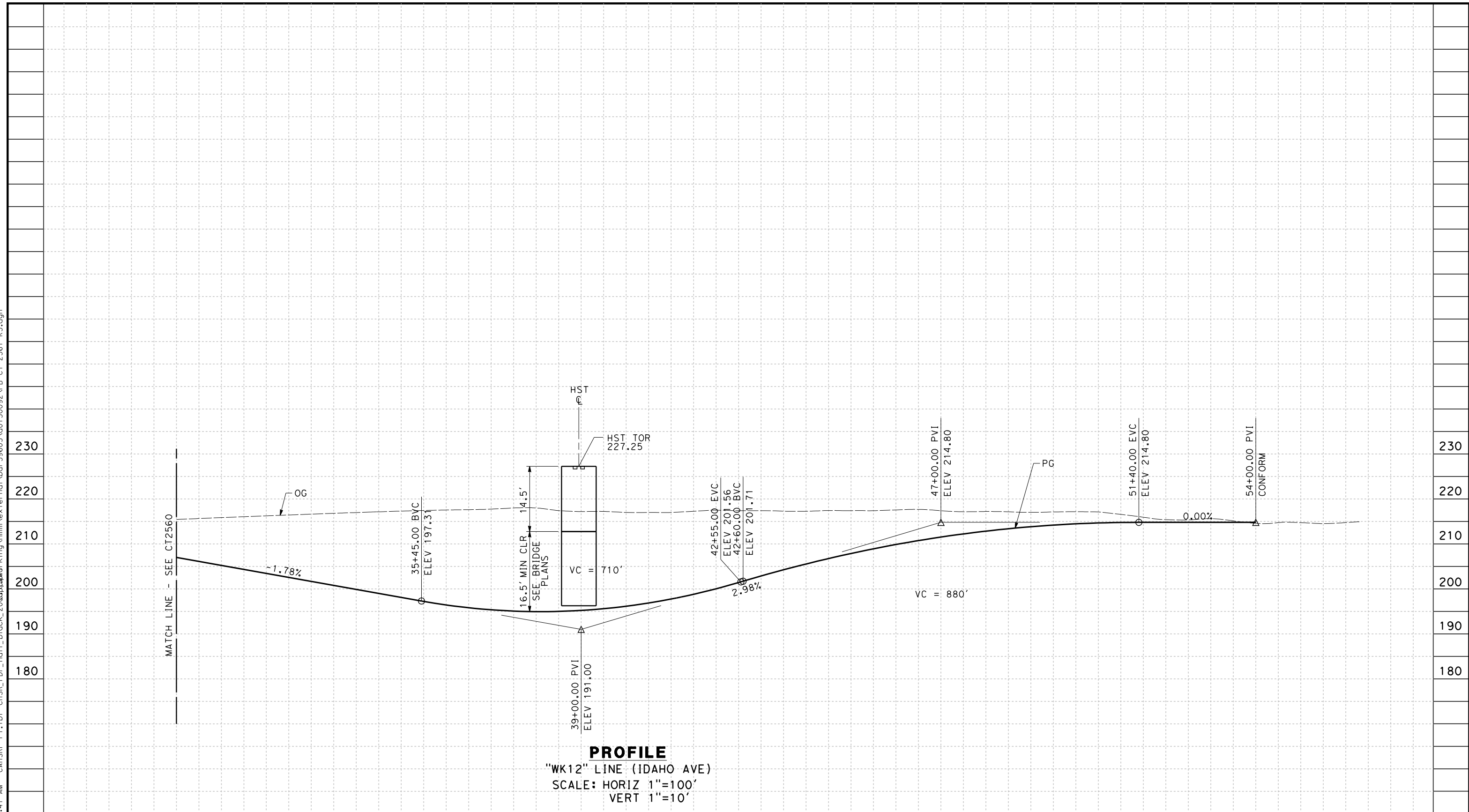
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 12TH AVE (IDAHO AVE)

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2560 |
| SCALE | AS SHOWN |
| SHEET NO. | 18 OF 30 |

12/29/2013 10:26:18 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\d0150092\FB-CT-2560-K5.dgn

12/29/2013 10:26:41 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\ad0150092\FB-CT-2561-K5.dgn



| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 30 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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



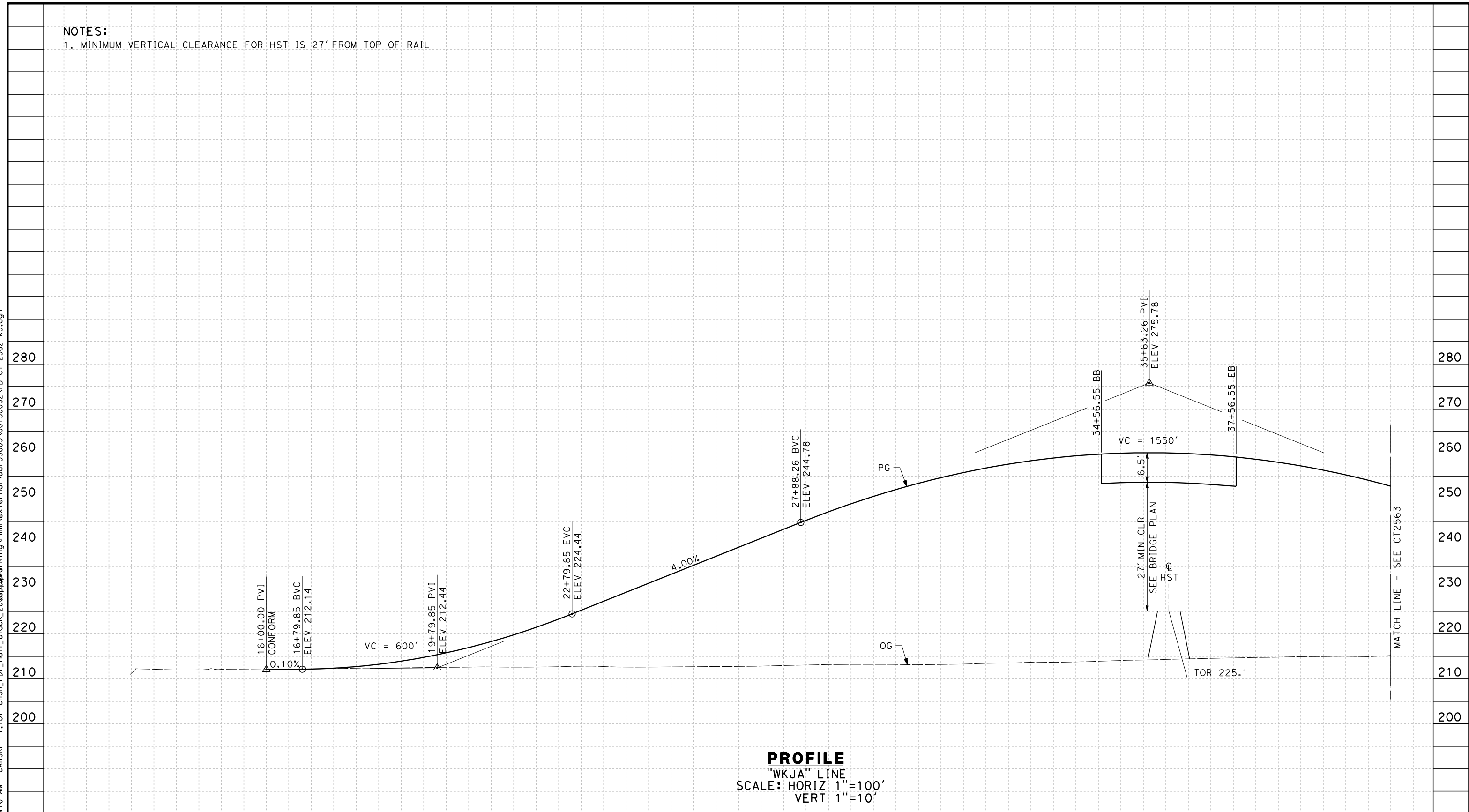
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 12TH AVE (IDAHO AVE)

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2561
 SCALE
AS SHOWN
 SHEET NO.
19 OF 30

NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL

12/29/2013 10:27:16 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603.ctb-2562-K5.dgn



PROFILE
 "WKJA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|-------|--|--|
| STATION | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | TOTAL | | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

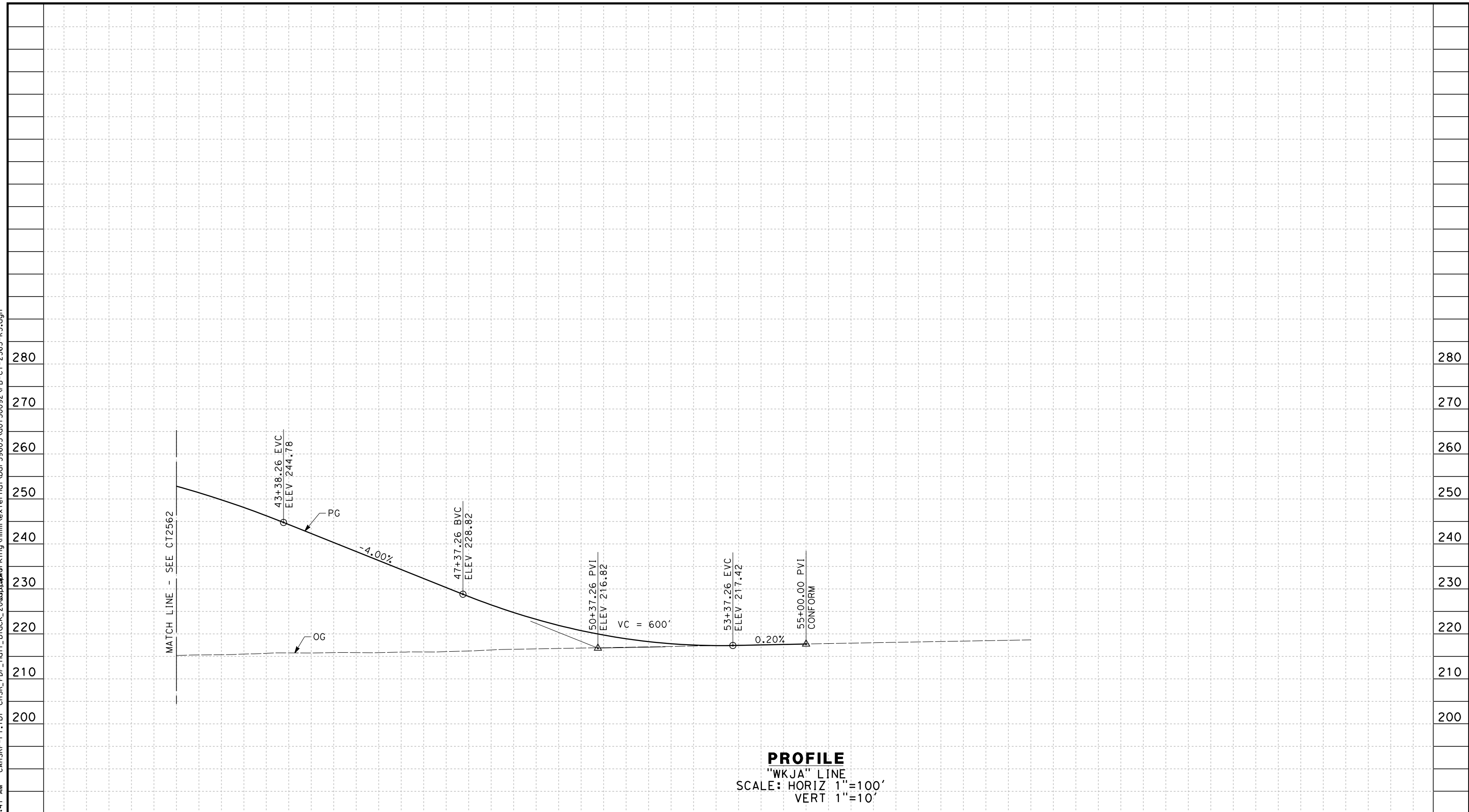
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 JACKSON AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2562
 SCALE
AS SHOWN
 SHEET NO.
20 OF 30

12/29/2013 10:27:41 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-2563-K5.dgn



PROFILE
 "WKJA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|--|
| STATION | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 60 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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



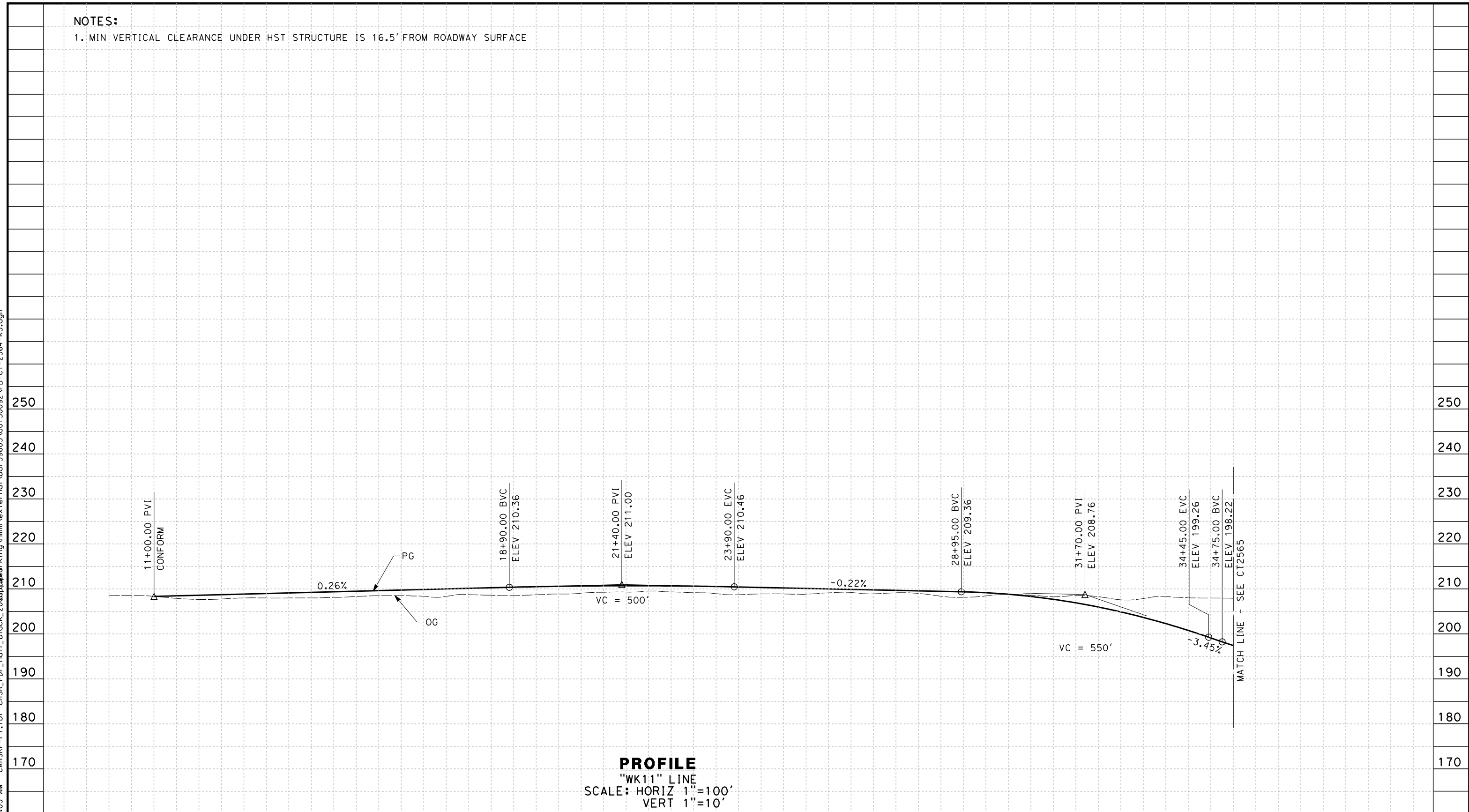
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 JACKSON AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2563
 SCALE
AS SHOWN
 SHEET NO.
21 OF 30

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROADWAY SURFACE

12/29/2013 10:28:03 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-2564-K5.dgn



PROFILE
 "WK11" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

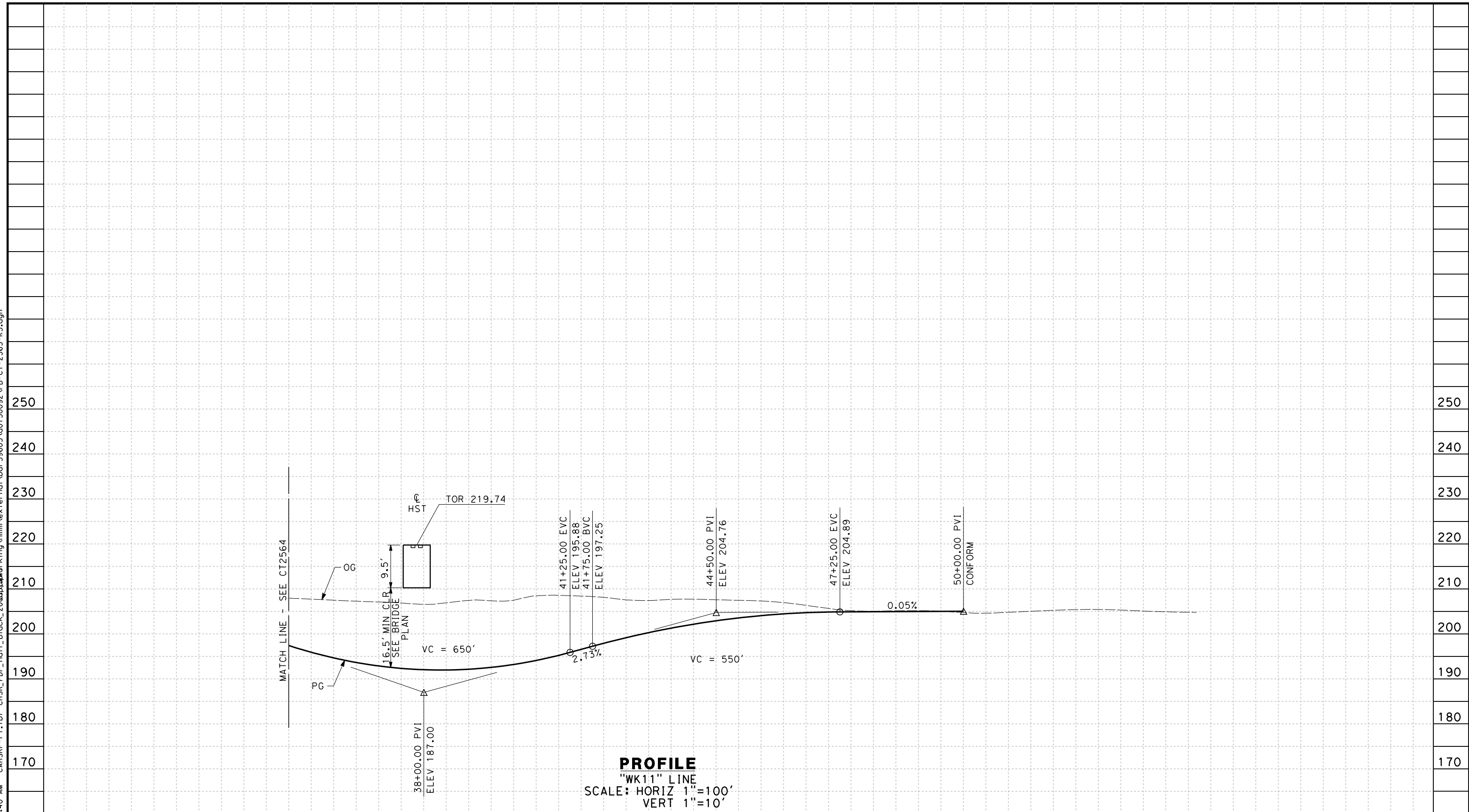
**RECORD SET 15%
 DESIGN SUBMISSION**
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 S 11TH AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2564
 SCALE
AS SHOWN
 SHEET NO.
22 OF 30

12/29/2013 10:28:40 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-2565-K5.dgn



| | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|--|
| STATION | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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



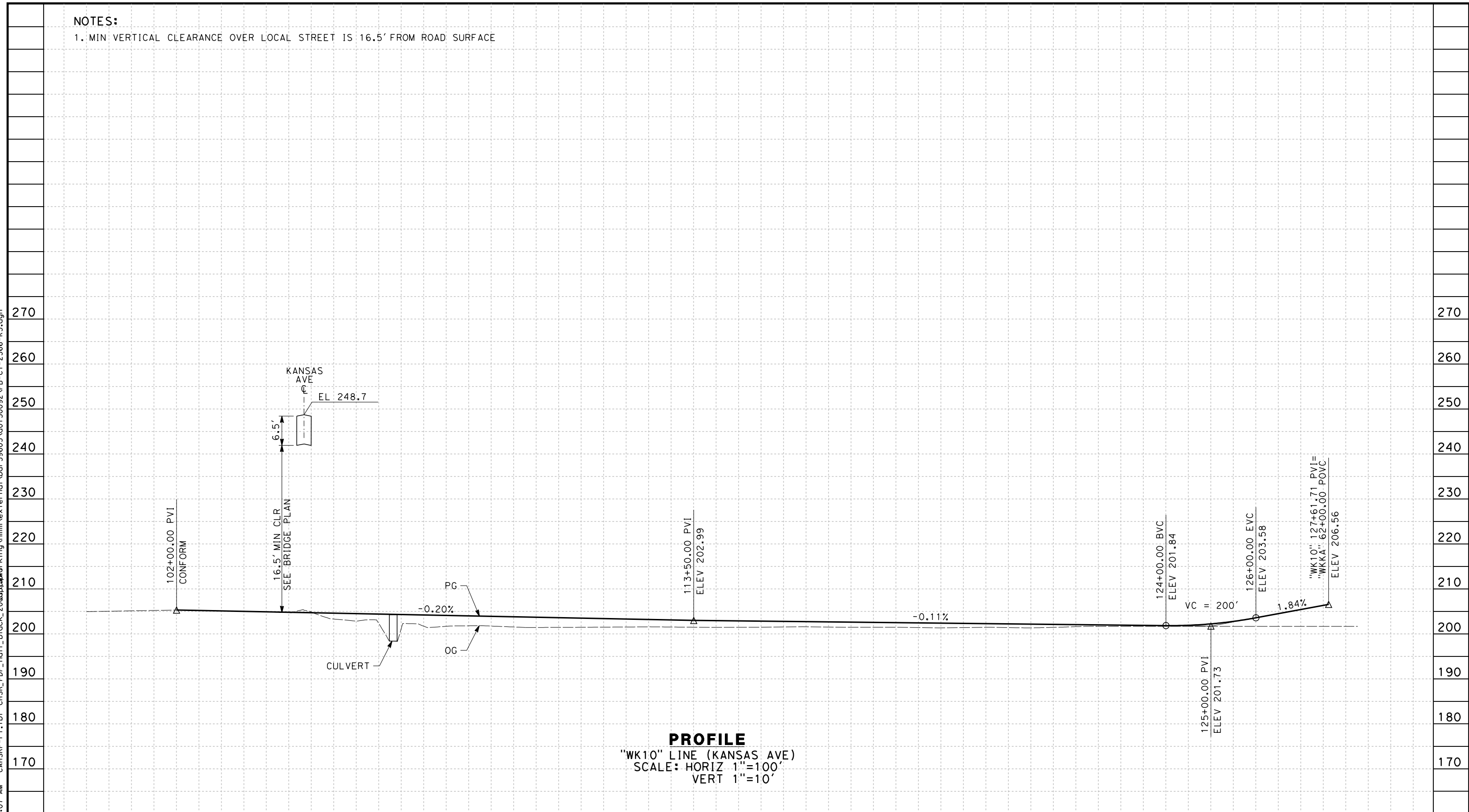
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 S 11TH AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2565
 SCALE
AS SHOWN
 SHEET NO.
23 OF 30

NOTES:

1. MIN VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE

12/29/2013 10:29:07 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-2566-K5.dgn



PROFILE
 "WK10" LINE (KANSAS AVE)
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----|---|---|---|---|-----|---|---|---|---|-----|---|---|---|---|-----|---|---|---|---|-----|---|---|---|---|-----|---|---|---|---|-------|--|
| STATION | 100 | 1 | 2 | 3 | 4 | 105 | 6 | 7 | 8 | 9 | 110 | 1 | 2 | 3 | 4 | 115 | 6 | 7 | 8 | 9 | 120 | 1 | 2 | 3 | 4 | 125 | 6 | 7 | 8 | 9 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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

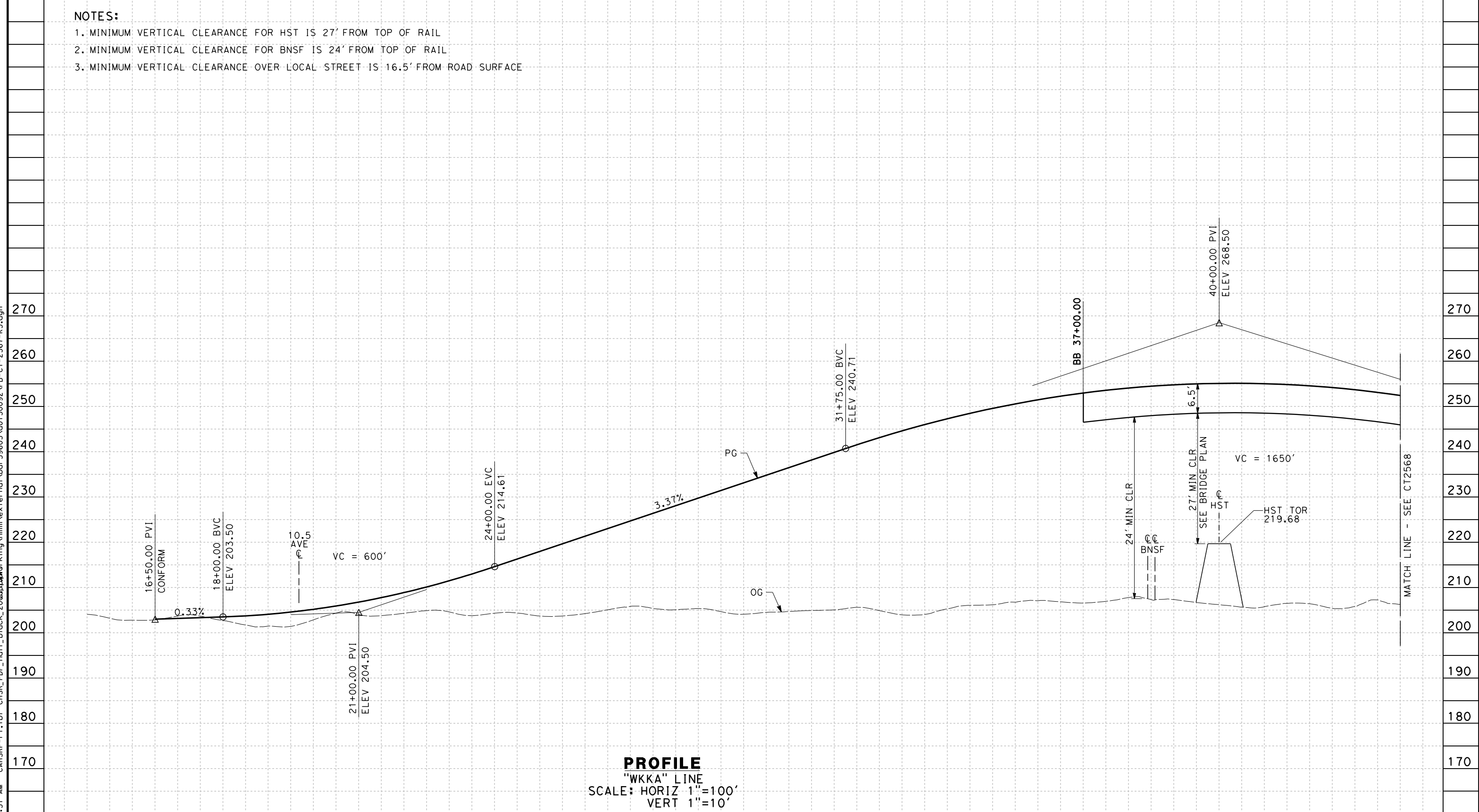


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 10TH AVE (KANSAS AVE)

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2566
 SCALE
AS SHOWN
 SHEET NO.
24 OF 30

NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE



PROFILE
 "WKKA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|-------|--|
| STATION | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|-------------|
| DESIGNED BY | I. JOSIFEK |
| DRAWN BY | P. BARBER |
| CHECKED BY | T. CLIFFORD |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



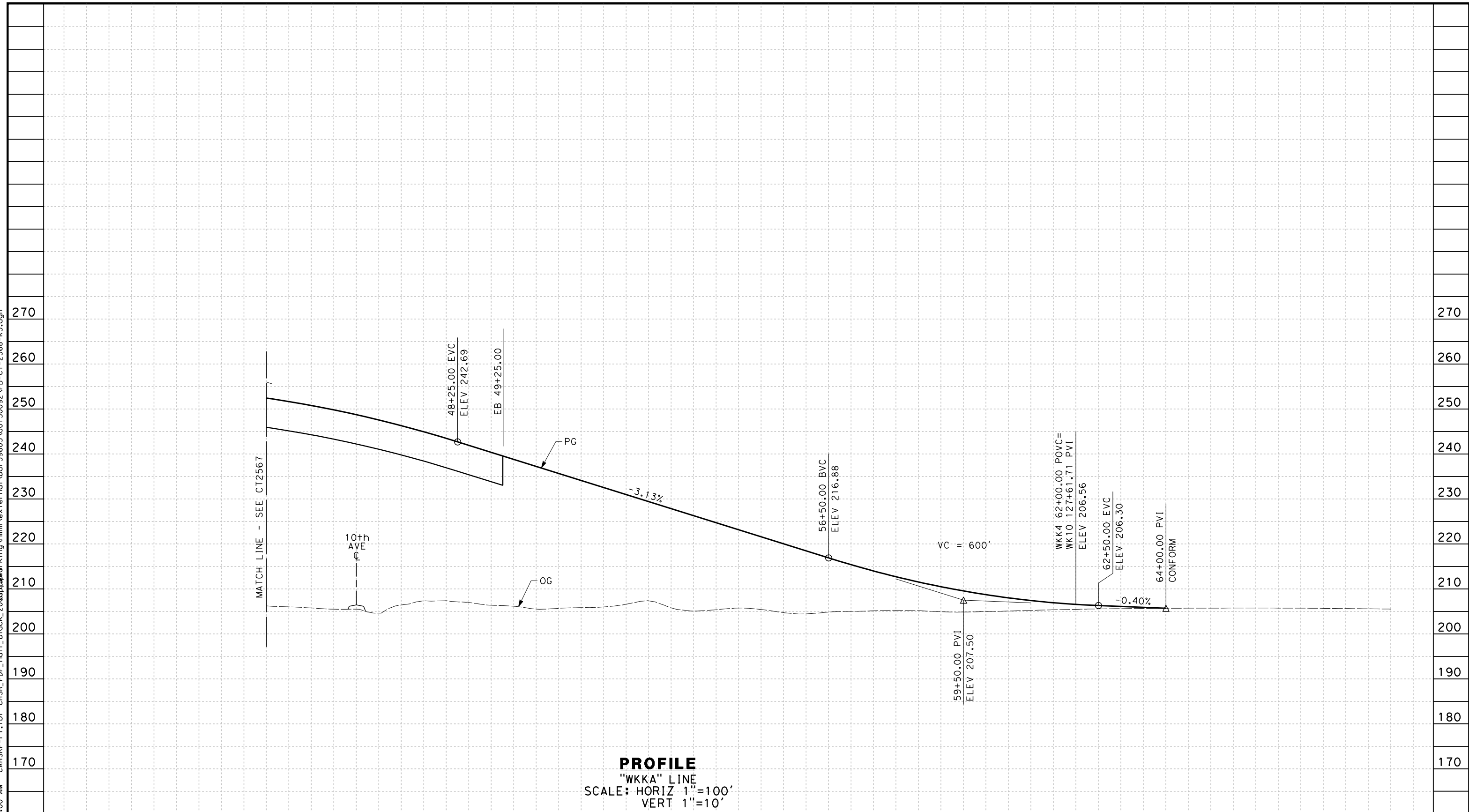
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 KANSAS AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2567 |
| SCALE | AS SHOWN |
| SHEET NO. | 25 OF 30 |

12/29/2013 10:29:31 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-2567-K5.dgn

12/29/2013 10:30:00 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\external\bar59603\d0150092\FB-CT-2568-K5.dgn



| STATION | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 60 | 1 | 2 | 3 | 4 | 65 | 6 | 7 | TOTAL | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|-------|--|
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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



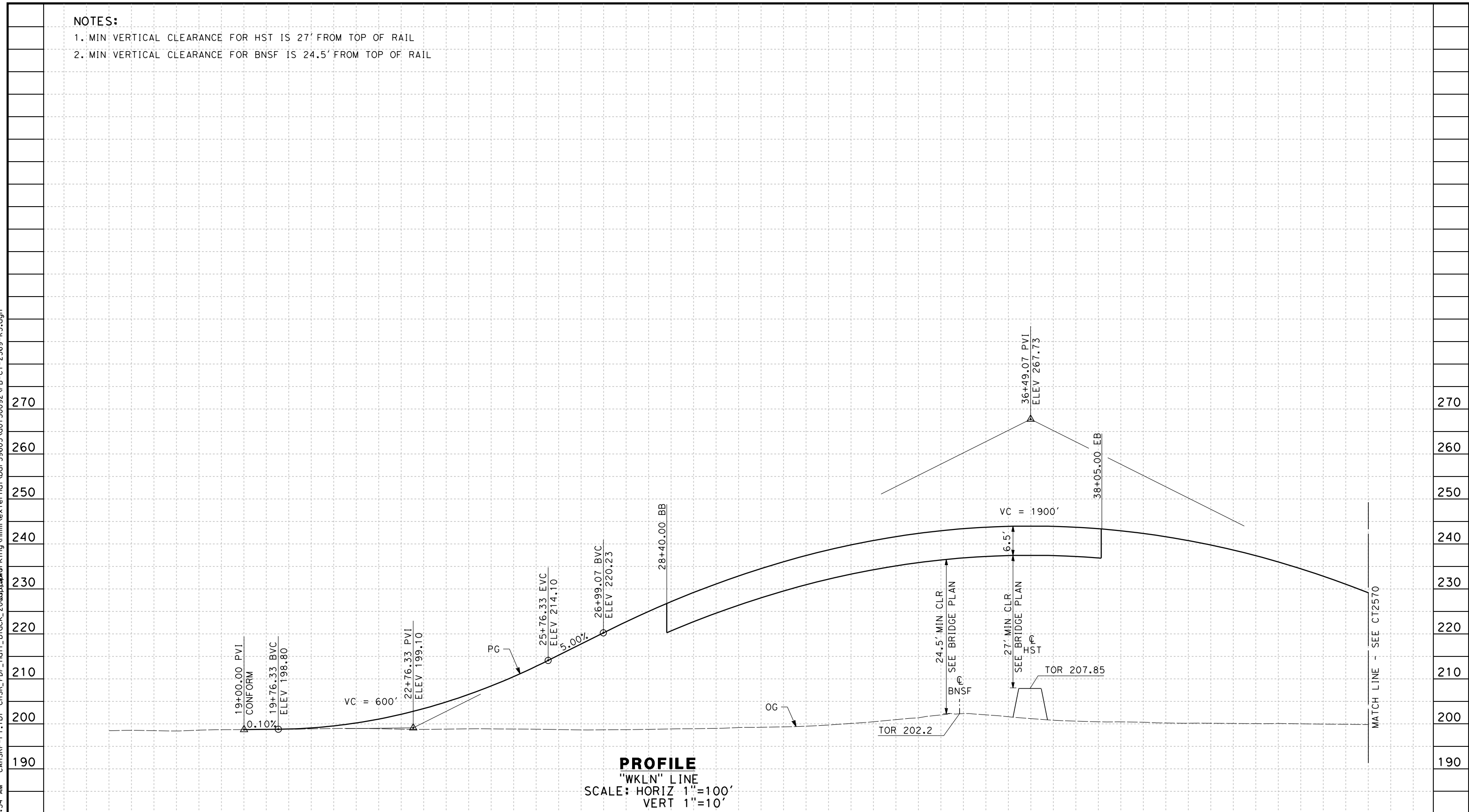
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 KANSAS AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2568
 SCALE
AS SHOWN
 SHEET NO.
26 OF 30

NOTES:

- 1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
- 2. MIN VERTICAL CLEARANCE FOR BNSF IS 24.5' FROM TOP OF RAIL

12/29/2013 10:30:34 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-2569-K5.dgn



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|-------|
| STATION | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

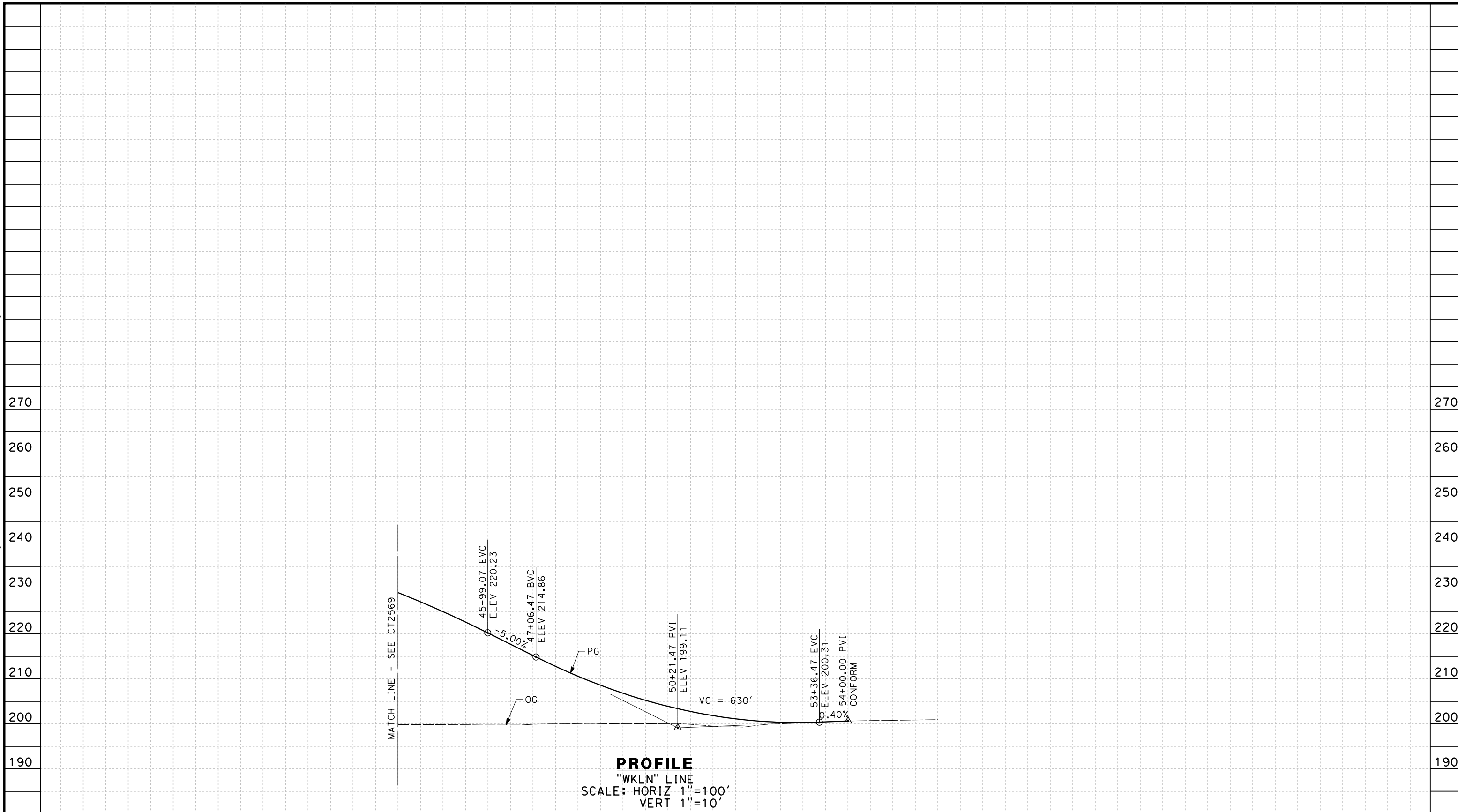
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K5
 GRADE SEPARATION PROFILE
 LANSING AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2569
 SCALE
AS SHOWN
 SHEET NO.
27 OF 30

12/29/2013 10:30:55 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603\external\bar59603.ctb-2570-K5.dgn



PROFILE
 "WKLN" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|-------|
| STATION | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | TOTAL |
| Exc | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 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
 GRADE SEPARATION PROFILE
 LANSING AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2570
 SCALE
AS SHOWN
 SHEET NO.
28 OF 30

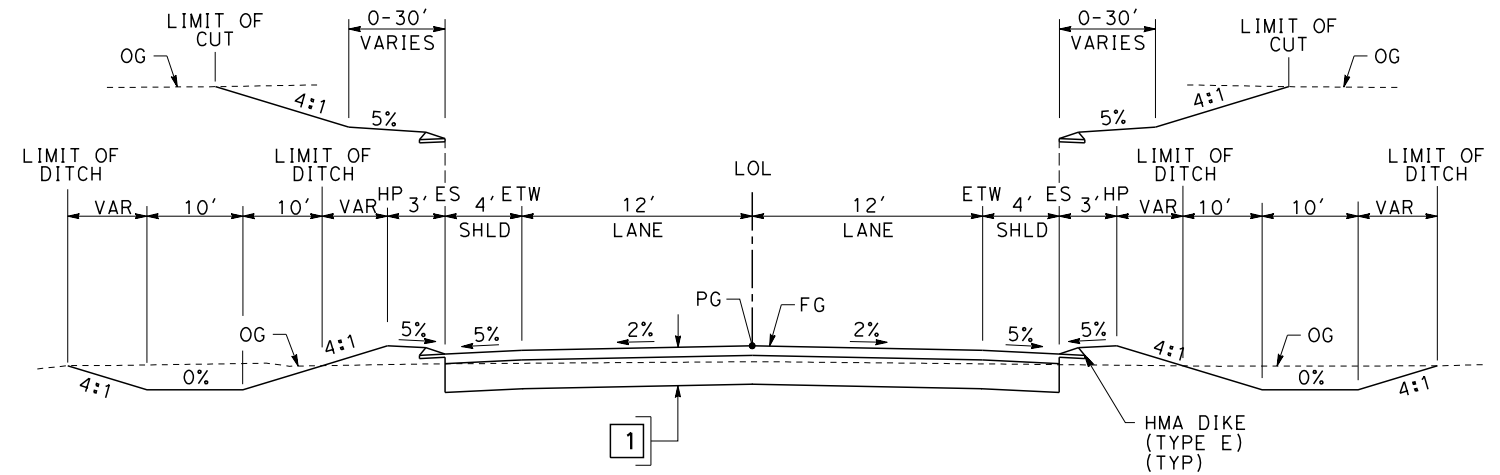
NOTES:

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

STRUCTURAL SECTIONS

TYPICAL ROADWAY (4' SHOULDER)

1 — 0.30' HMA (TYPE A)
1.40' CL 2' AB



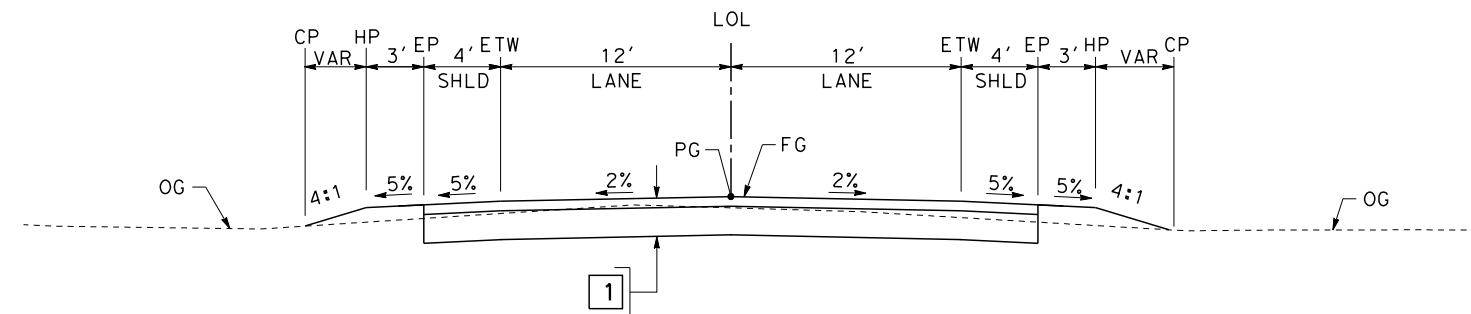
SECTION A

- "WKIO" 24+75.00 TO 38+17.68
- "WKIO" 40+97.68 TO 51+90.00
- "WKJA" 17+00.00 TO 34+56.55
- "WKJA" 37+56.55 TO 52+30.00
- "WKLN" 38+05.00 TO 50+50.00
- "WKKA" 18+00.00 TO 37+00.00
- "WKKA" 58+00.00 TO 62+50.00

TABLE OF DESIGN SPEEDS

| STREET NAME | ALIGNMENT DESIGNATION | DESIGN SPEED | CRITERIA / JURISDICTION |
|-----------------------|-----------------------|--------------|---------------------------|
| IONA AVE | WKIO | 55 | KINGS COUNTY/KINGS COUNTY |
| 12TH AVE AT IONA AVE | WK12 | 60* | KINGS COUNTY/KINGS COUNTY |
| IDAHO AVE | WKID | 60* | KINGS COUNTY/KINGS COUNTY |
| 12TH AVE AT IDAHO AVE | WK12 | 60* | KINGS COUNTY/KINGS COUNTY |
| JACKSON AVE | WKJA | 55 | KINGS COUNTY/KINGS COUNTY |
| S 11TH AVE | WK11 | 50 | KINGS COUNTY/KINGS COUNTY |
| KANSAS AVE | WKKA | 60 | KINGS COUNTY/KINGS COUNTY |
| LANSING AVE | WKLN | 55 | KINGS COUNTY/KINGS COUNTY |

* DESIGN SPEED PER CITY OF HANFORD GENERAL PLAN



SECTION B

- "WKKA" 16+50.00 TO 18+00.00
- "WKKA" 62+50.00 TO 64+00.00
- "WK11" 11+00.00 TO 28+95.00
- "WK11" 47+25.00 TO 50+00.00
- "WKLN" 19+00.00 TO 21+89.24
- "WKLN" 50+50.00 TO 54+00.00
- "WK12" 5+44.00 TO 24+00.00 (IDAHO AVE)
- "WK12" 7+80.00 TO 20+50.00 (IONA AVE)
- "WKJA" 16+00.00 TO 17+00.00
- "WKJA" 52+30.00 TO 55+00.00
- "WKIO" 24+20.00 TO 24+75.00
- "WKIO" 51+90.00 TO 57+00.00
- "WKIO" 102+00.00 TO 127+61.71 (KANSAS AVE)

12/29/2013 10:31:21 AM CAHSR-r1.tbl CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150092\FB-CT-3360-K5.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK

DRAWN BY
P. BARBER

CHECKED BY
T. CLIFFORD

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

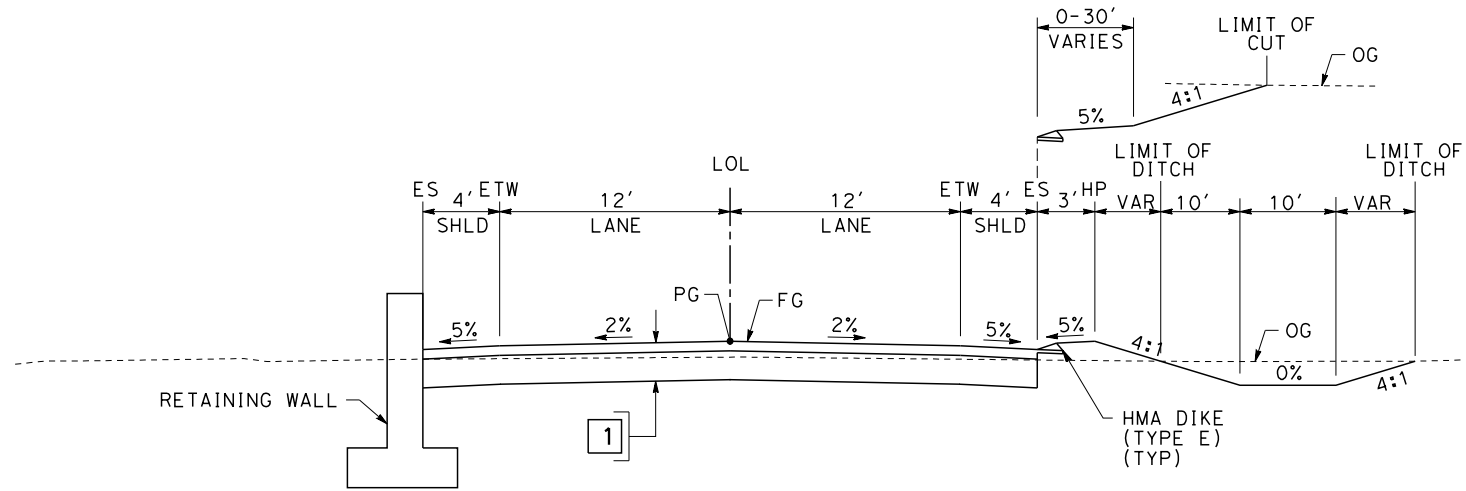
KAWEAH SUBSECTION
ALIGNMENT K5
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT3360

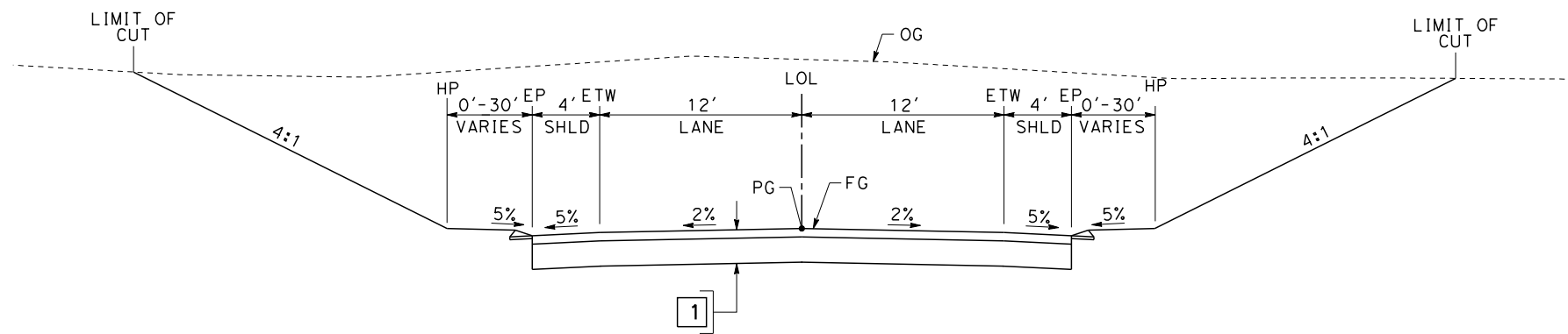
SCALE
AS SHOWN

SHEET NO.
29 OF 30



SECTION C

"WKKA" 49+25.00 TO 58+00.00
 "WKLN" 21+89.24 TO 28+40.00



SECTION D

"WKID" 20+91.39 TO 52+00.86
 "WK12" 24+00.00 TO 54+00.00 (IDAHO AVE)
 "WK11" 28+95.00 TO 47+25.00

12/29/2013 10:31:55 AM CAHSR-r1.tbl CAHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603\0150092\FB-CT-3361-K5.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
P. BARBER
 CHECKED BY
T. CLIFFORD
 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
 ROADWAY/GRADE SEPARATION
 TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT3361
 SCALE
AS SHOWN
 SHEET NO.
30 OF 30

STREET CLOSURE

| STREET NAME | HST ALIGNMENT STA | LOCAL STANDARD |
|-------------|-------------------|----------------|
| JERSEY AVE | 2156+70.00 | KINGS COUNTY |



12/29/2013 12:15:37 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\dot150147\FB-CB-0237-K6.dgn

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



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

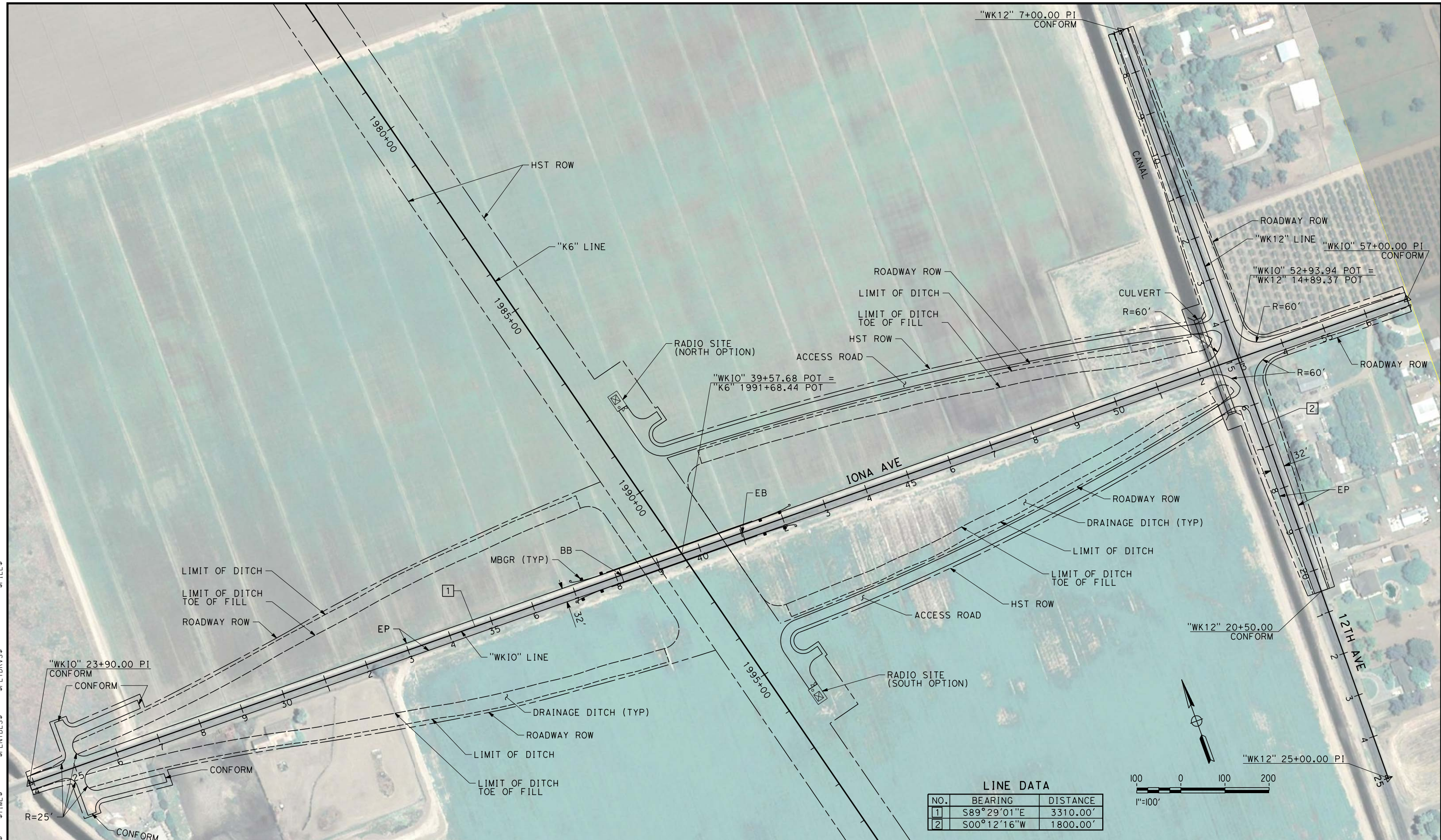
KAWEAH SUBSECTION
ALIGNMENT K6
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CB0237

SCALE
AS SHOWN

SHEET NO.
1 OF 35



\$FILE \$
 \$PLTDRVS \$
 \$PENTBLS \$
 \$TIME \$
 \$DATE \$
 \$USER \$

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 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
 GRADE SEPARATION LAYOUT
 IONA AVE

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT1653
 SCALE
 AS SHOWN
 SHEET NO.
 2 OF 35

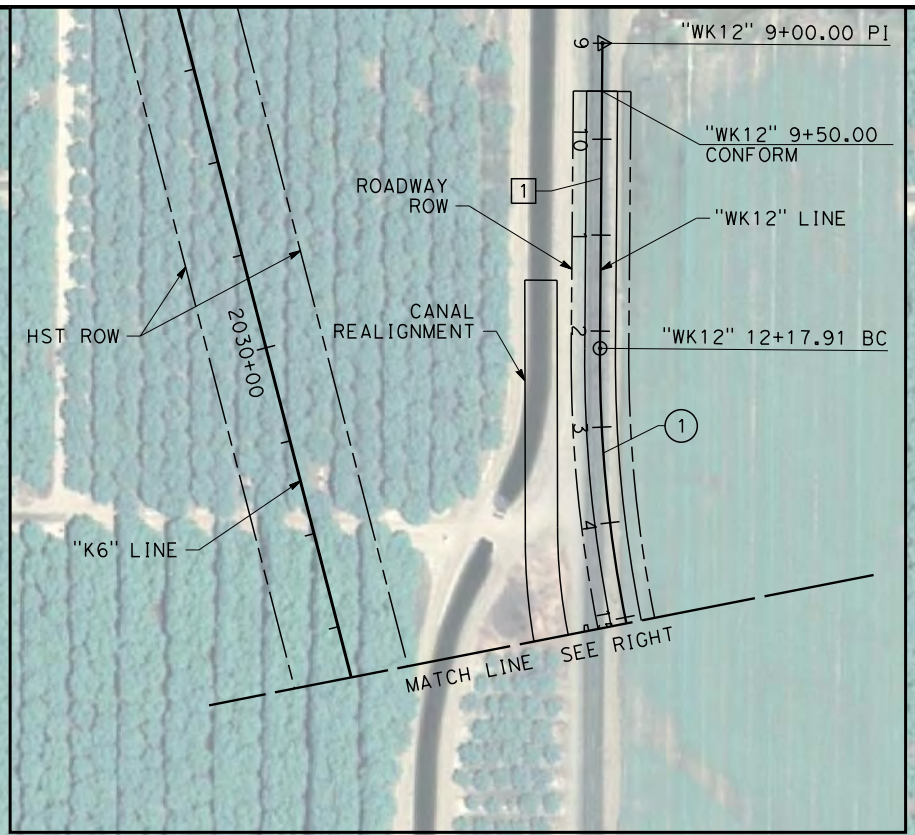
12/29/2013 12:17:25 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603.ctb 1654-K6.dgn

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-------------|----------|
| 1 | S00°27'17"W | 317.91' |
| 2 | S28°46'40"E | 243.77' |
| 3 | S05°10'10"E | 300.00' |
| 6 | S89°20'22"E | 243.49' |
| 7 | S80°02'04"E | 261.16' |
| 8 | N81°25'00"E | 349.62' |
| 9 | S89°20'22"E | 726.50' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| ① | 1400.00' | 29°13'58" | 365.10' | 714.29' |
| ② | 1400.00' | 23°36'30" | 292.58' | 576.86' |
| ③ | 1400.00' | 36°27'47" | 461.15' | 890.96' |
| ⑤ | 3000.00' | 09°18'18" | 244.14' | 487.21' |
| ⑥ | 2500.00' | 18°32'56" | 408.25' | 809.35' |
| ⑦ | 2000.00' | 09°14'38" | 161.69' | 322.67' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
12TH AVE / IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1654
SCALE
AS SHOWN
SHEET NO.
3 OF 35

12/30/2013 11:00:35 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150147\FB-CT-1655-K6.dgn



LINE DATA

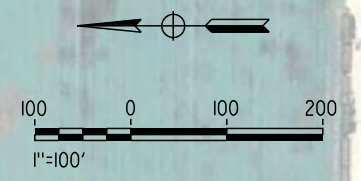
| NO. | BEARING | DISTANCE |
|-----|-------------|----------|
| 4 | S31°17'37"W | 212.95' |
| 5 | S00°27'17"W | 589.71' |
| 6 | S59°24'53"E | 58.40' |
| 7 | S21°50'48"W | 174.39' |
| 8 | N88°55'48"E | 79.37' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|------------|---------|---------|
| 3 | 1400.00' | 36°27'47" | 461.15' | 890.96' |
| 4 | 1400.00' | 30°50'20" | 396.14' | 753.54' |
| 5 | 100.00' | 81°15'41" | 85.80' | 141.83' |
| 6 | 100.00' | 112°54'59" | 150.85' | 197.08' |

RETAINING WALL DATA

| NO. | LOCATION | | LENGTH | MAX HEIGHT |
|-----|--------------------|--------------------|---------|------------|
| | BEGIN | END | | |
| 1 | 81.09' RT 14+55.10 | 99.53' RT 15+43.30 | 163.32' | 5' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

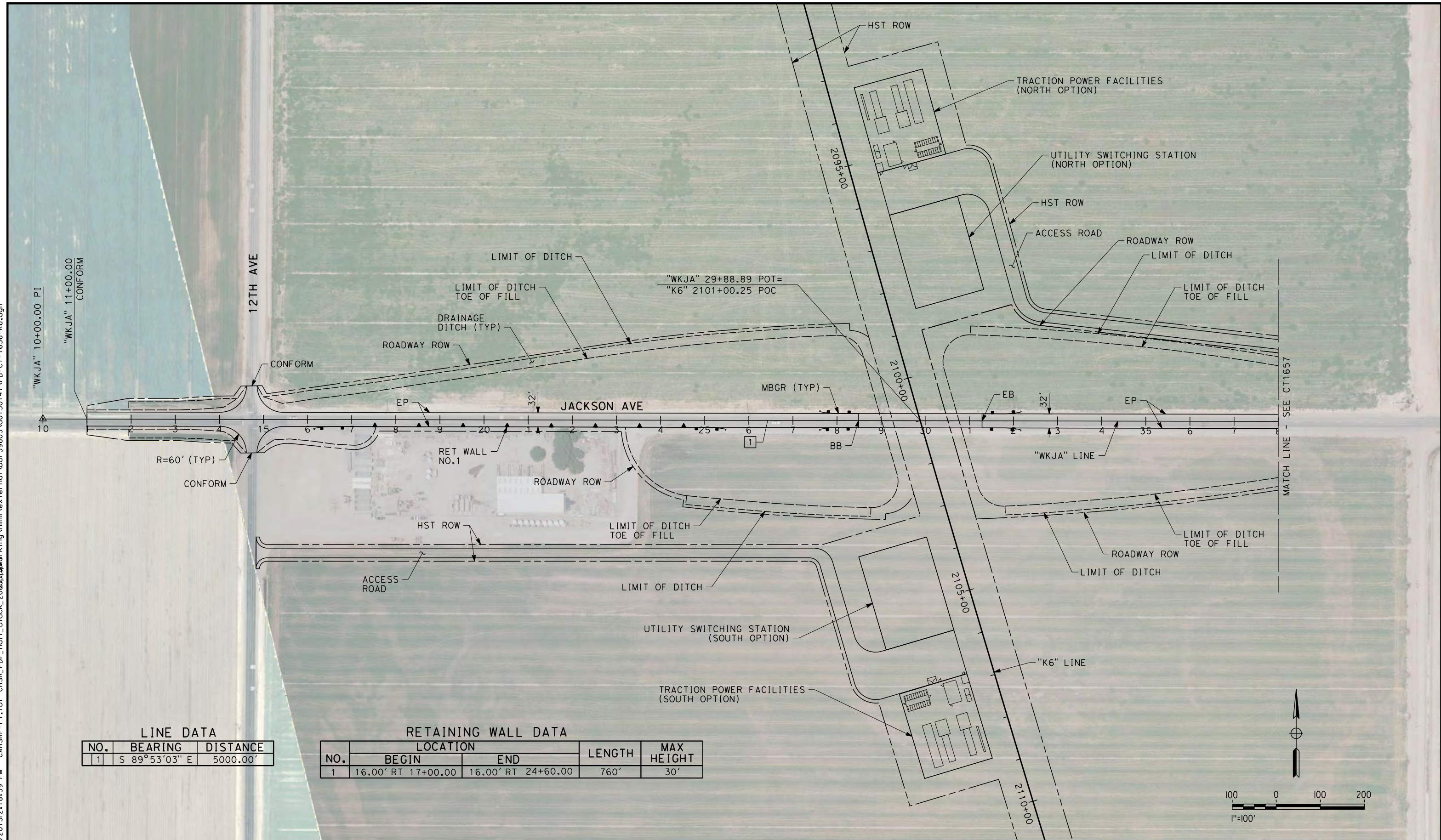
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION LAYOUT
12TH AVE / IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1655
SCALE
AS SHOWN
SHEET NO.
4 OF 35

12/29/2013 12:18:59 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150147\FB-CT-1656-K6.dgn

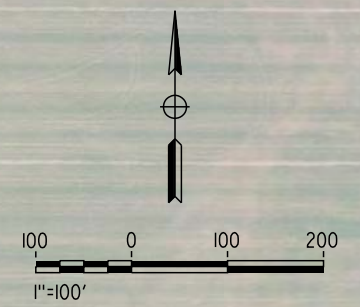


LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°53'03" E | 5000.00' |

RETAINING WALL DATA

| NO. | LOCATION | | LENGTH | MAX HEIGHT |
|-----|--------------------|--------------------|--------|------------|
| | BEGIN | END | | |
| 1 | 16.00' RT 17+00.00 | 16.00' RT 24+60.00 | 760' | 30' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

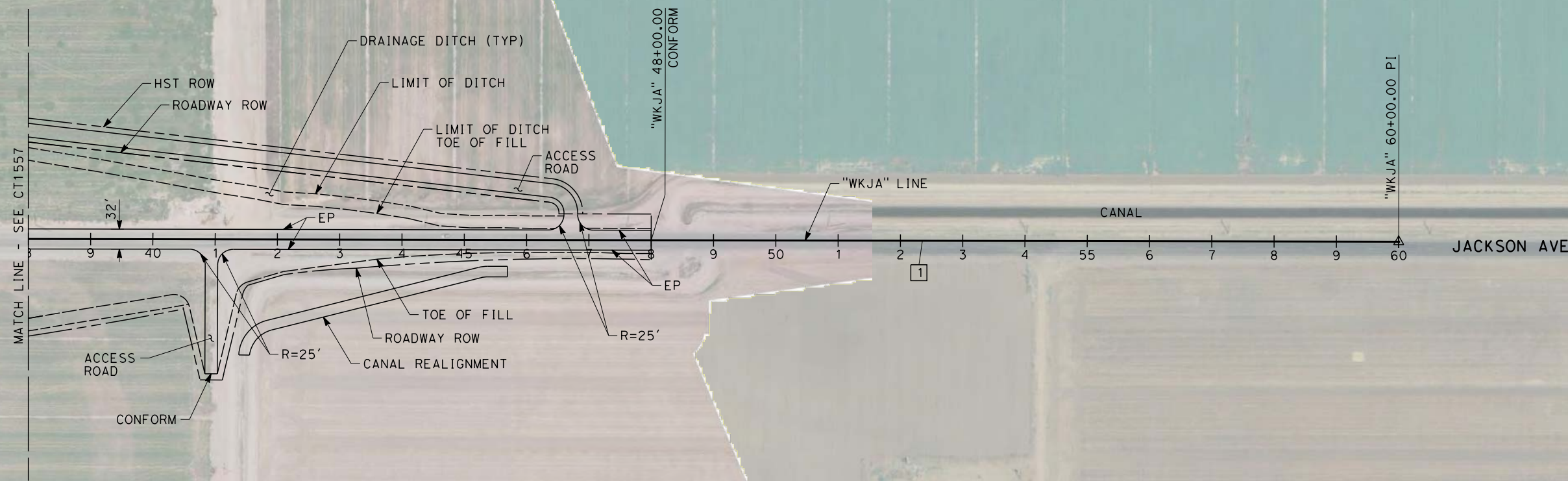
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION LAYOUT
JACKSON AVE

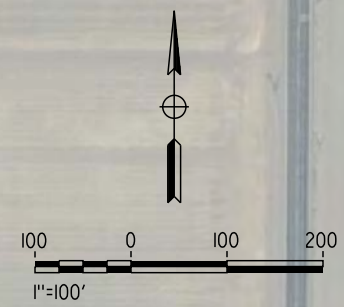
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1656
SCALE
AS SHOWN
SHEET NO.
5 OF 35

12/29/2013 12:19:47 PM CAHSR-r1.tbl CHSR_PDF_half_block_200dpi.ctb \\bar59603\0150147\FB-CT-1657-K6.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°53'03" E | 5000.00' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1657
SCALE
AS SHOWN
SHEET NO.
6 OF 35

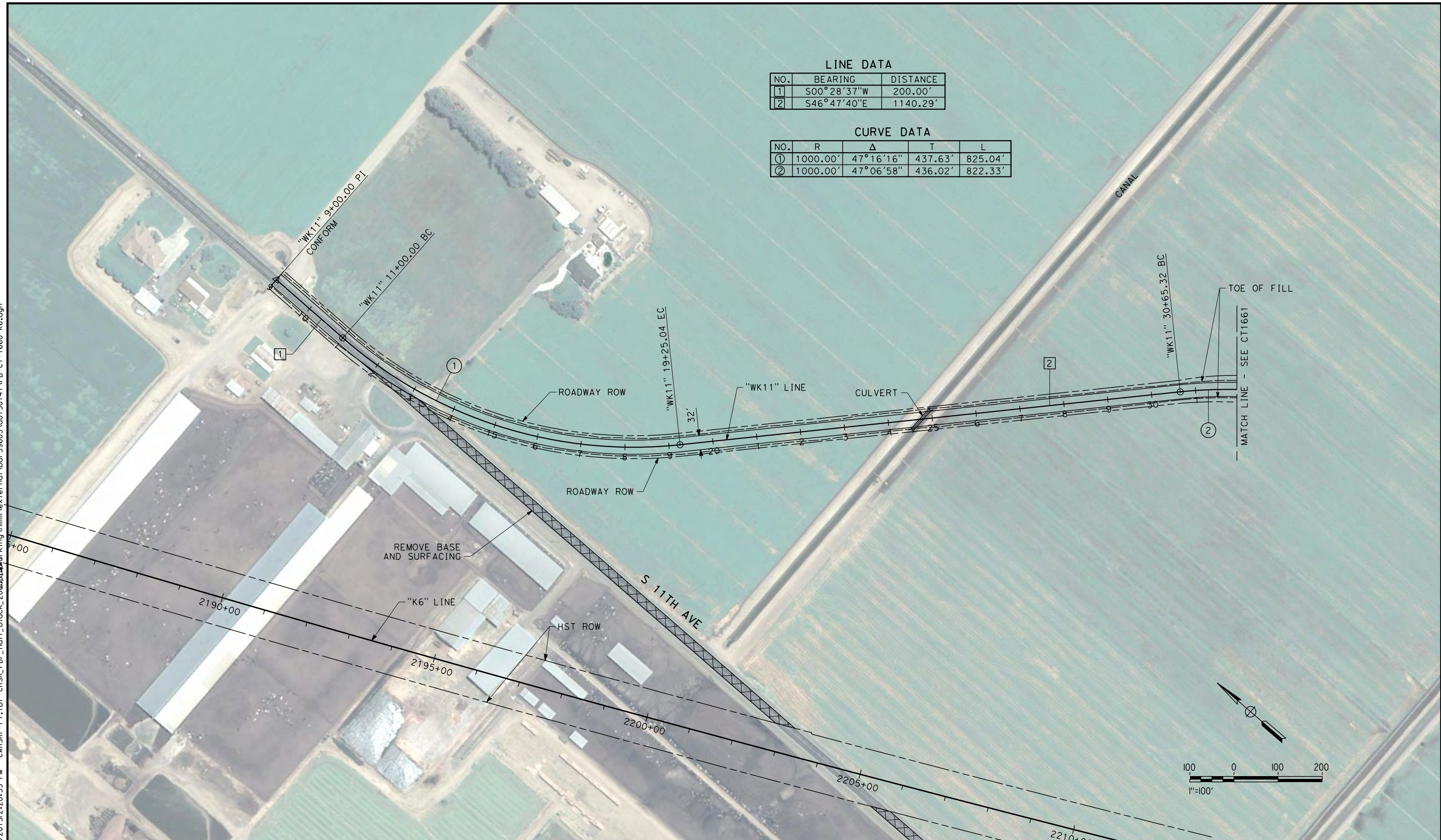
12/29/2013 12:20:33 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150147\FB-CT-1660-K6.dgn

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-------------|----------|
| 1 | S00°28'37"W | 200.00' |
| 2 | S46°47'40"E | 1140.29' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| ① | 1000.00' | 47°16'16" | 437.63' | 825.04' |
| ② | 1000.00' | 47°06'58" | 436.02' | 822.33' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

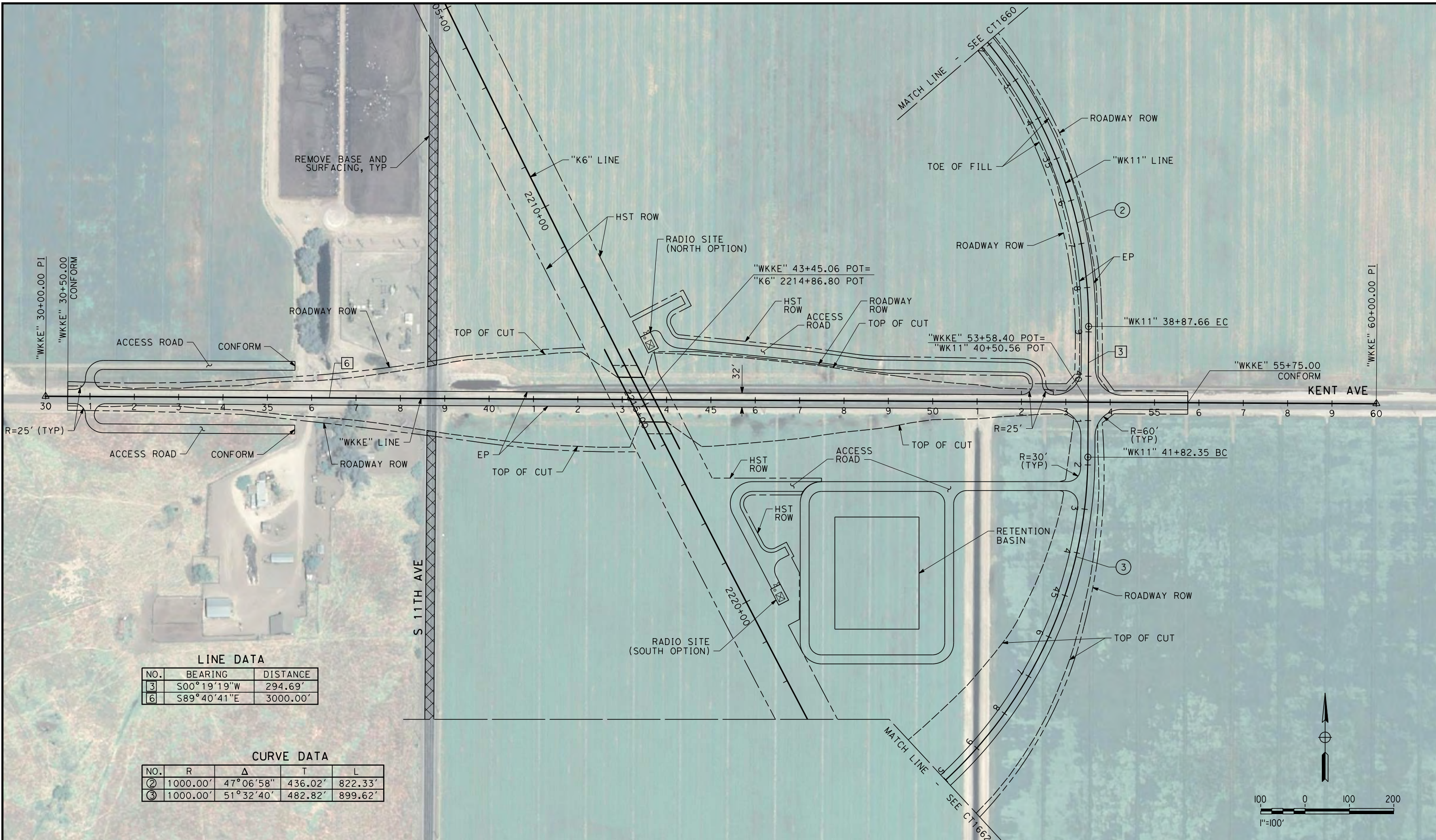
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION LAYOUT
S 11TH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1660
SCALE
AS SHOWN
SHEET NO.
7 OF 35

12/30/2013 11:40:50 AM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150147\FB-CT-1661-K6.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-------------|----------|
| 3 | S00°19'19"W | 294.69' |
| 6 | S89°40'41"E | 3000.00' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| 2 | 1000.00' | 47°06'58" | 436.02' | 822.33' |
| 3 | 1000.00' | 51°32'40" | 482.82' | 899.62' |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

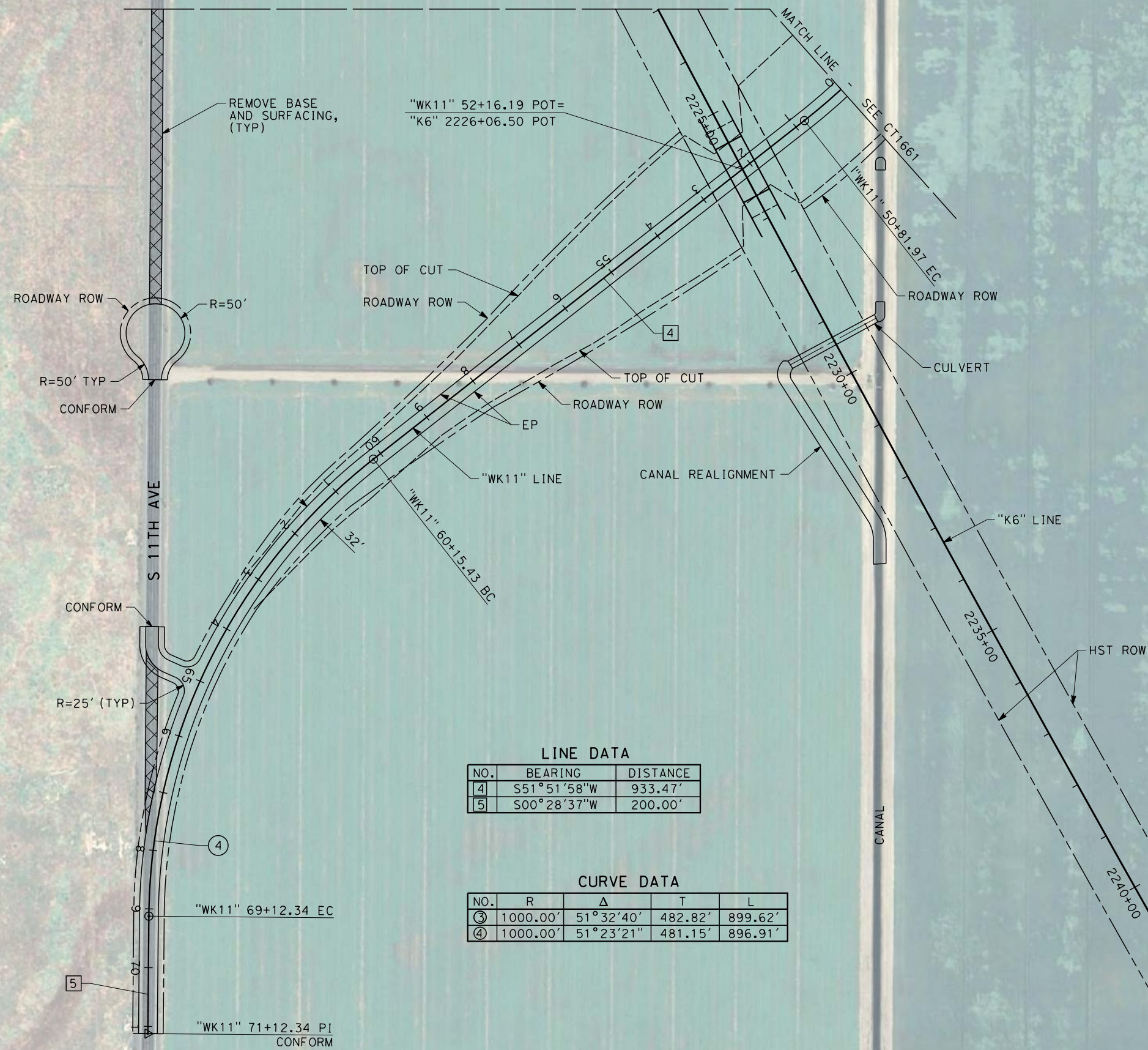
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION LAYOUT
KENT AVE / S 11TH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1661
SCALE
AS SHOWN
SHEET NO.
8 OF 35

12/29/2013 2:21:59 PM CAHSR-r1.tbl CHSR_PDF_half_block_2000.ctb \\bar59603\external\bar59603\0150147\FB-CT-1662-K6.dgn

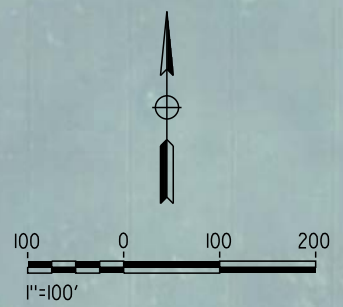


LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-------------|----------|
| 4 | S51°51'58"W | 933.47' |
| 5 | S00°28'37"W | 200.00' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|----------|-----------|---------|---------|
| 3 | 1000.00' | 51°32'40" | 482.82' | 899.62' |
| 4 | 1000.00' | 51°23'21" | 481.15' | 896.91' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK

DRAWN BY
T. PRETZER

CHECKED BY
T. CLIFFORD

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
GRADE SEPARATION LAYOUT
S 11TH AVE

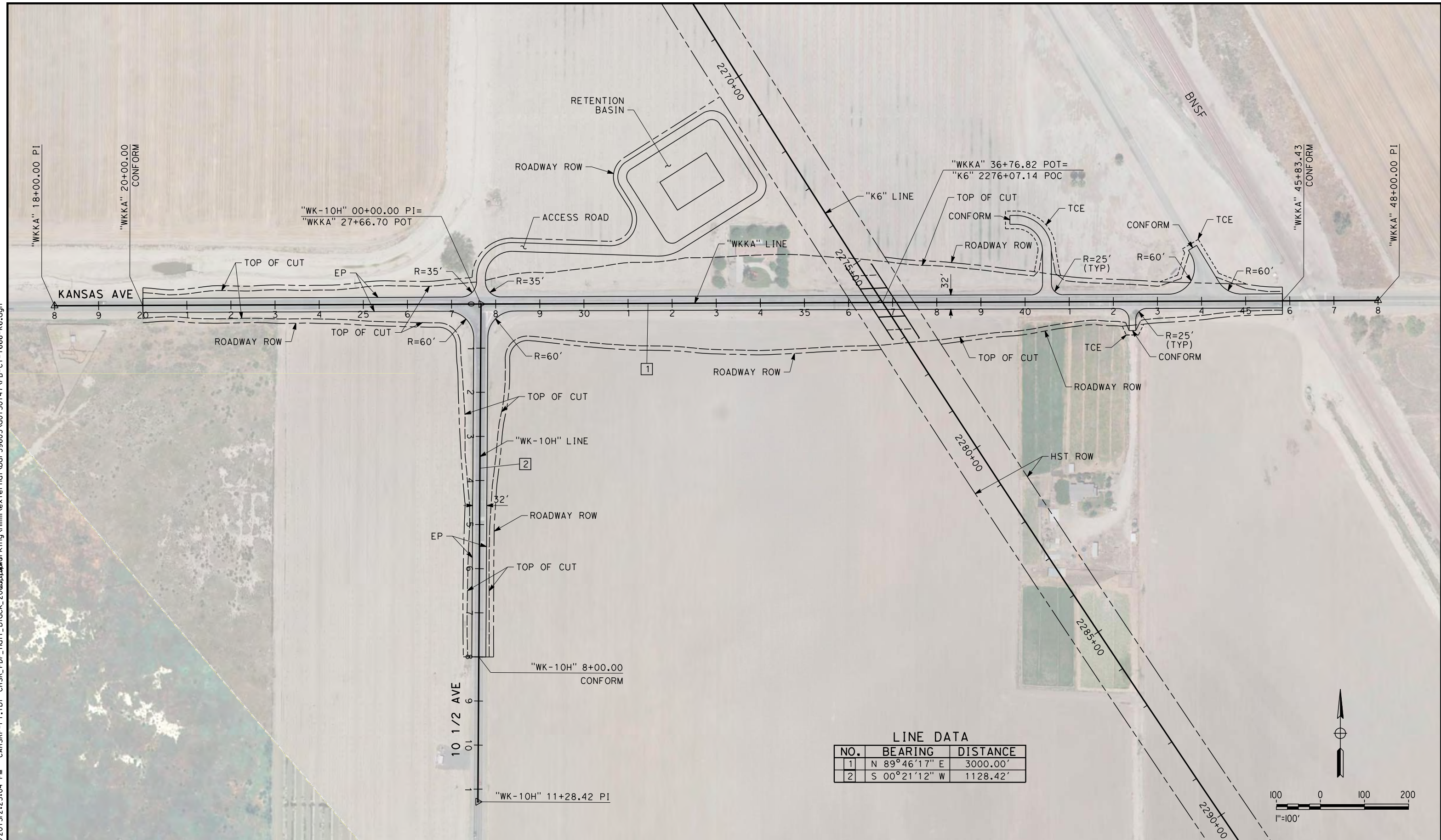
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1662

SCALE
AS SHOWN

SHEET NO.
9 OF 35

12/29/2013 12:23:04 PM CAHSR-r1.tbl CHSR_PDF_half_block_2000.ctb \\bar59603\d0150147\FB-CT-1666-K6.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|-----------------|----------|
| 1 | N 89° 46' 17" E | 3000.00' |
| 2 | S 00° 21' 12" W | 1128.42' |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

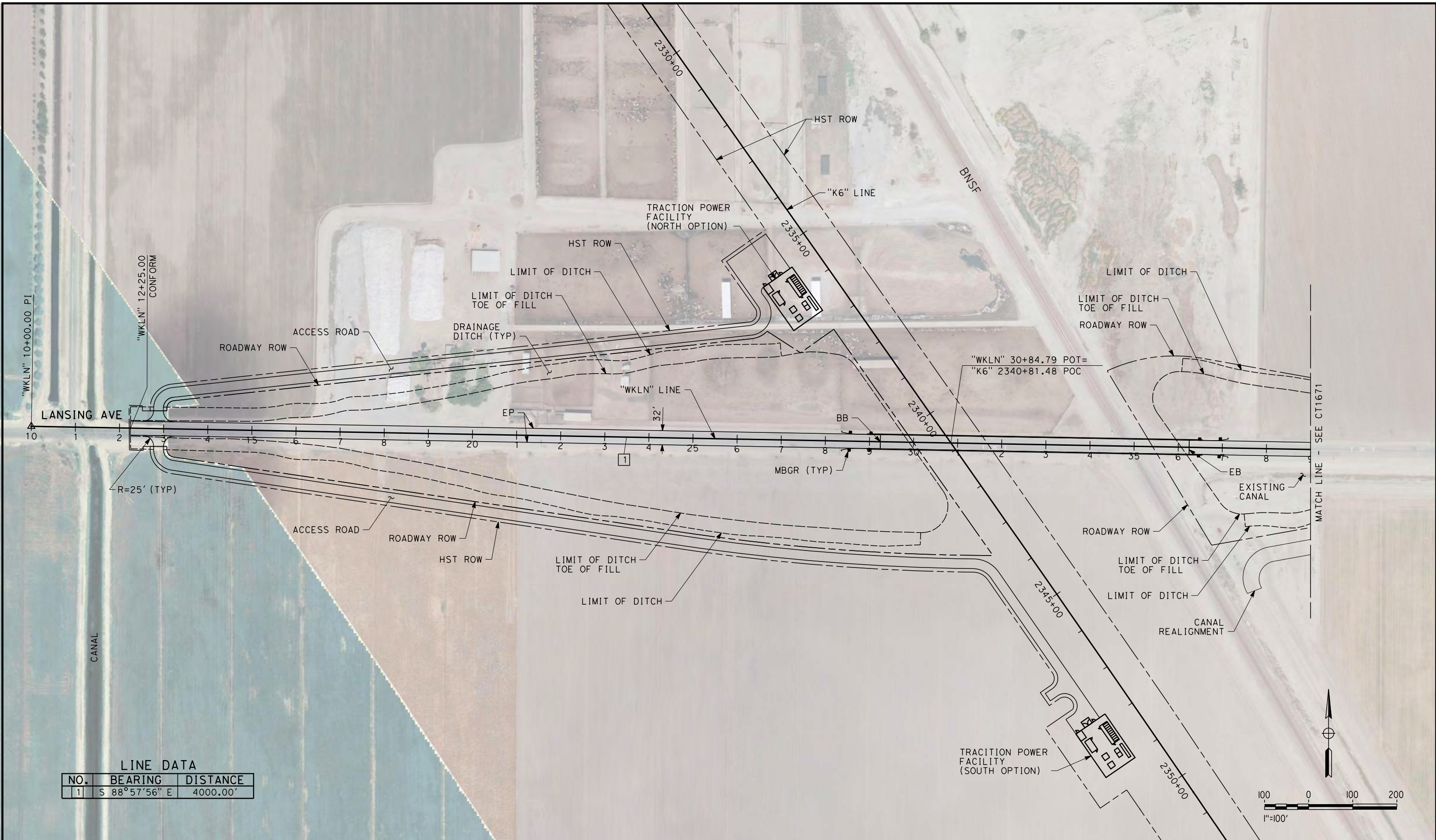
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION LAYOUT
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1666
SCALE
AS SHOWN
SHEET NO.
10 OF 35

12/29/2013 12:23:56 PM CAHSR-r1.tbl CHSR_PDF_half_block_200dpi.ctb \\bar59603\external\bar59603.ctb



"WKLN" 10+00.00 PI

"WKLN" 12+25.00 CONFORM

BNSF

TRACTION POWER FACILITY (NORTH OPTION)

HST ROW

LIMIT OF DITCH

LIMIT OF DITCH TOE OF FILL

DRAINAGE DITCH (TYP)

ACCESS ROAD

ROADWAY ROW

LIMIT OF DITCH

LIMIT OF DITCH TOE OF FILL

ROADWAY ROW

"WKLN" 30+84.79 POT = "K6" 2340+81.48 POC

"WKLN" LINE

EP

32'

BB

MBGR (TYP)

EB

EXISTING CANAL

MATCH LINE - SEE CT1671

R=25' (TYP)

ACCESS ROAD

ROADWAY ROW

HST ROW

LIMIT OF DITCH TOE OF FILL

LIMIT OF DITCH

ROADWAY ROW

LIMIT OF DITCH TOE OF FILL

LIMIT OF DITCH

CANAL REALIGNMENT

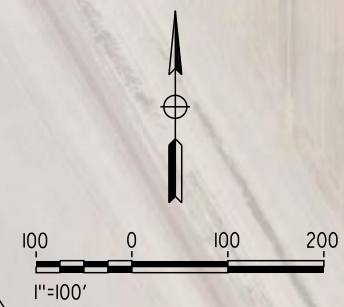
TRACTION POWER FACILITY (SOUTH OPTION)

2345+00

2350+00

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 88°57'56" E | 4000.00' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
LANSING AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1670
SCALE
AS SHOWN
SHEET NO.
11 OF 35

12/29/2013 12:24:45 PM CAHSR-r1.tbl CHSR_PDF_half_block_2000.ctb \\bar59603\external\bar59603\0150147\FB-CT-1671-K6.dgn



LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 88°57'56" E | 4000.00' |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

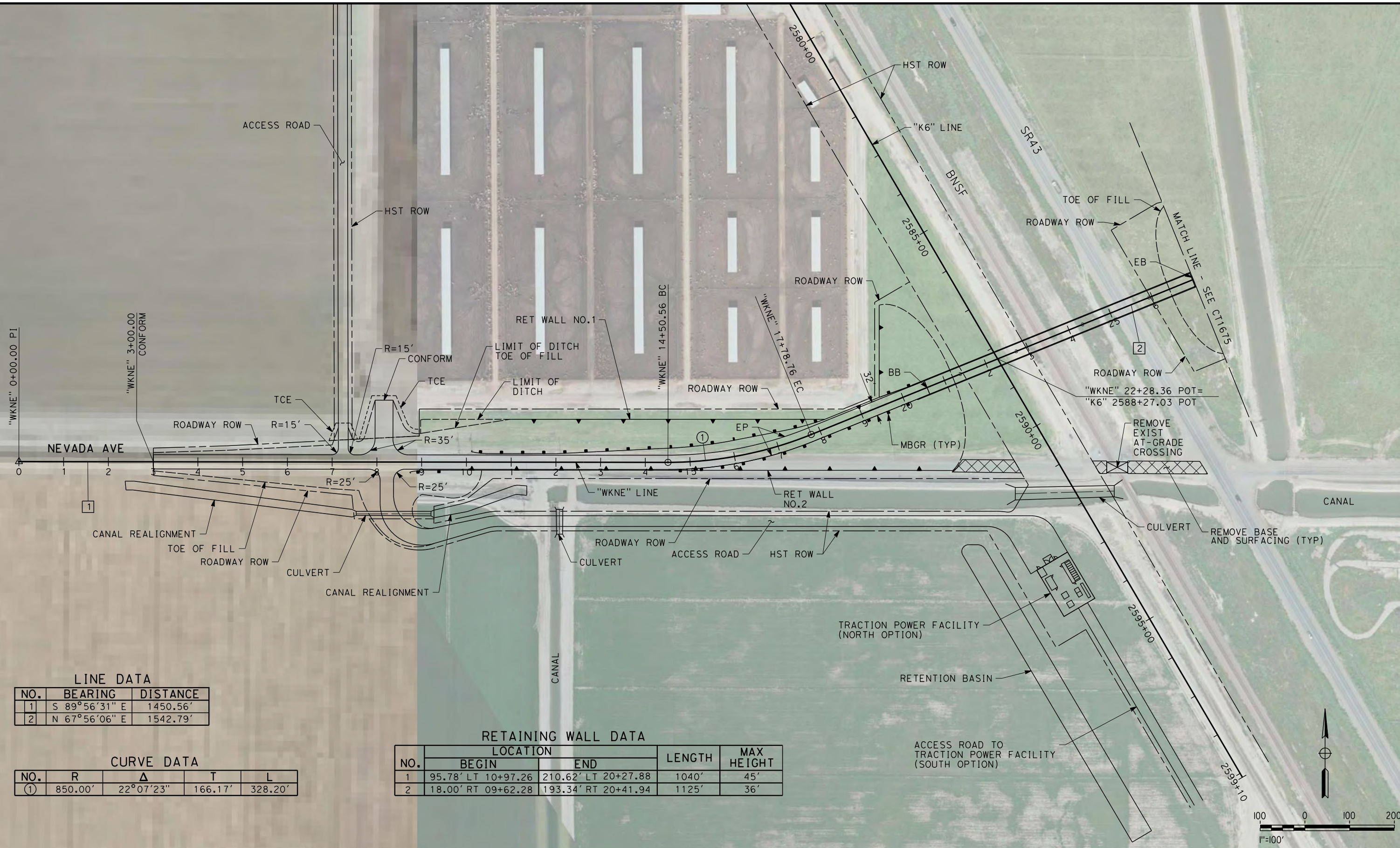
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION LAYOUT
LANSING AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1671
SCALE
AS SHOWN
SHEET NO.
12 OF 35

12/29/2013 12:26:15 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150147\FB-CT-1674-K6.dgn



LINE DATA

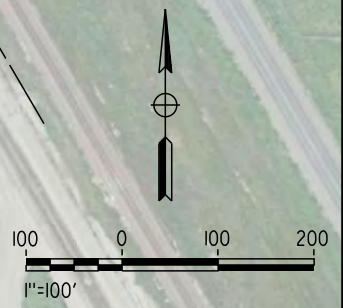
| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 1 | S 89°56'31" E | 1450.56' |
| 2 | N 67°56'06" E | 1542.79' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|---------|-----------|---------|---------|
| ① | 850.00' | 22°07'23" | 166.17' | 328.20' |

RETAINING WALL DATA

| NO. | LOCATION | | LENGTH | MAX HEIGHT |
|-----|--------------------|---------------------|--------|------------|
| | BEGIN | END | | |
| 1 | 95.78' LT 10+97.26 | 210.62' LT 20+27.88 | 1040' | 45' |
| 2 | 18.00' RT 09+62.28 | 193.34' RT 20+41.94 | 1125' | 36' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
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
GRADE SEPARATION LAYOUT
NEVADA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1674
SCALE
AS SHOWN
SHEET NO.
13 OF 35

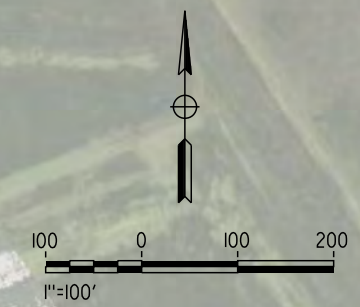
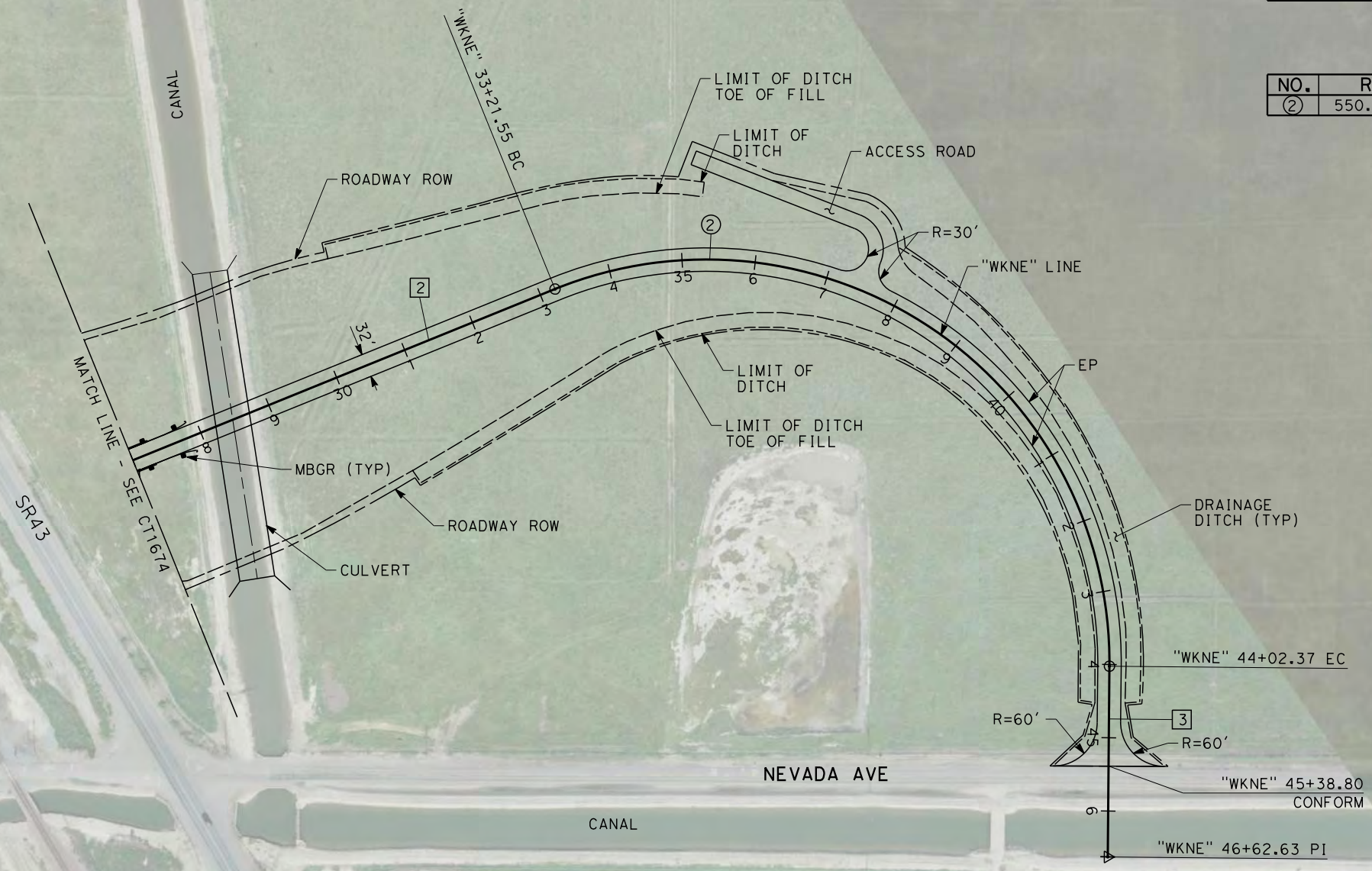
12/29/2013 12:21:42 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603\external\bar59603.ctb 1675-K6.dgn

LINE DATA

| NO. | BEARING | DISTANCE |
|-----|---------------|----------|
| 2 | N 67°56'06" E | 1542.79' |
| 3 | S 00°31'40" W | 260.26' |

CURVE DATA

| NO. | R | Δ | T | L |
|-----|---------|------------|---------|----------|
| ② | 550.00' | 112°35'34" | 824.58' | 1080.81' |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



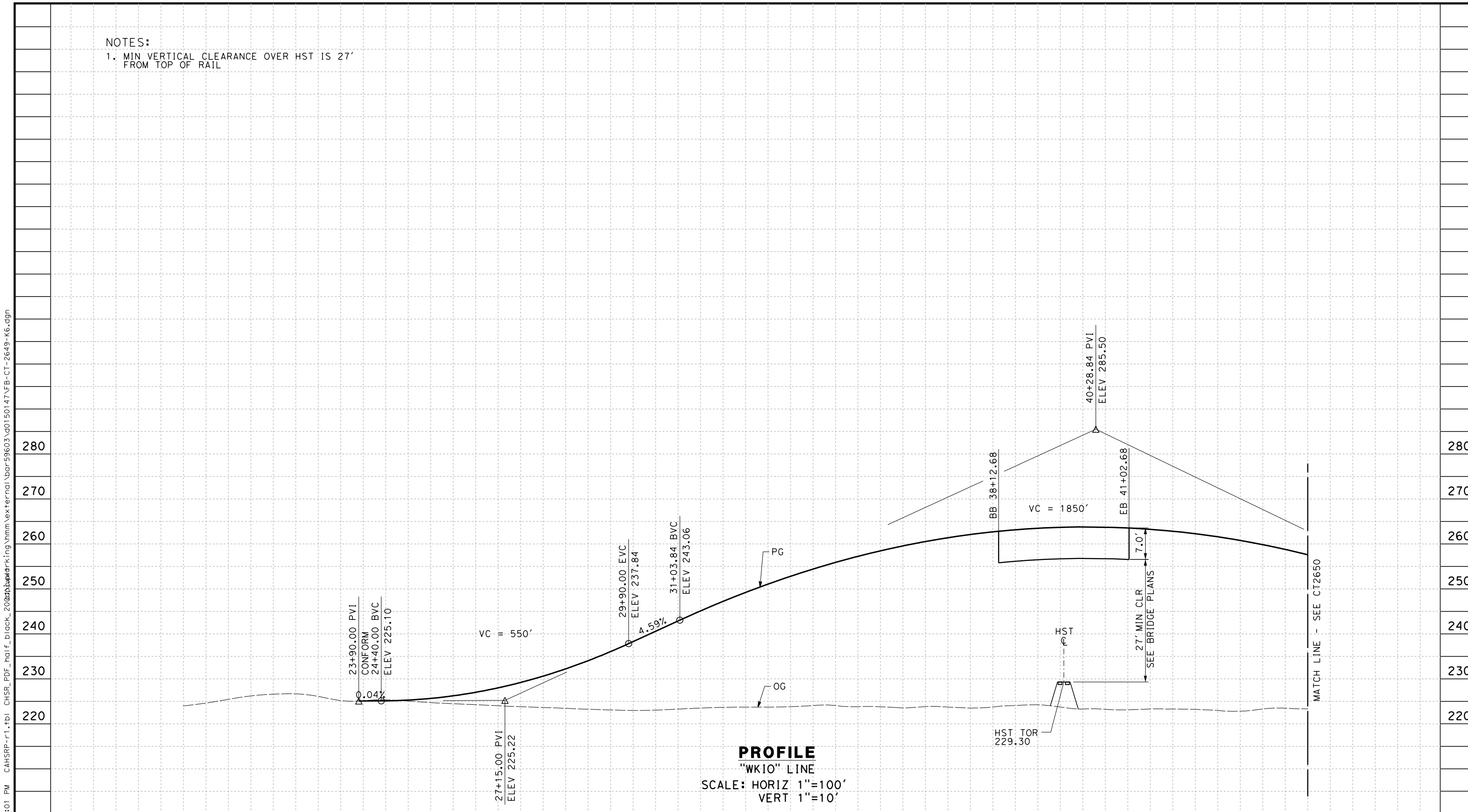
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION LAYOUT
NEVADA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1675
SCALE
AS SHOWN
SHEET NO.
14 OF 35

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27'
FROM TOP OF RAIL

12/29/2013 12:28:01 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\d0150147\FB-CT-2649-K6.dgn



PROFILE
"WKIO" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|-------------|
| DESIGNED BY | I. JOSIFEK |
| DRAWN BY | T. PRETZER |
| CHECKED BY | T. CLIFFORD |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

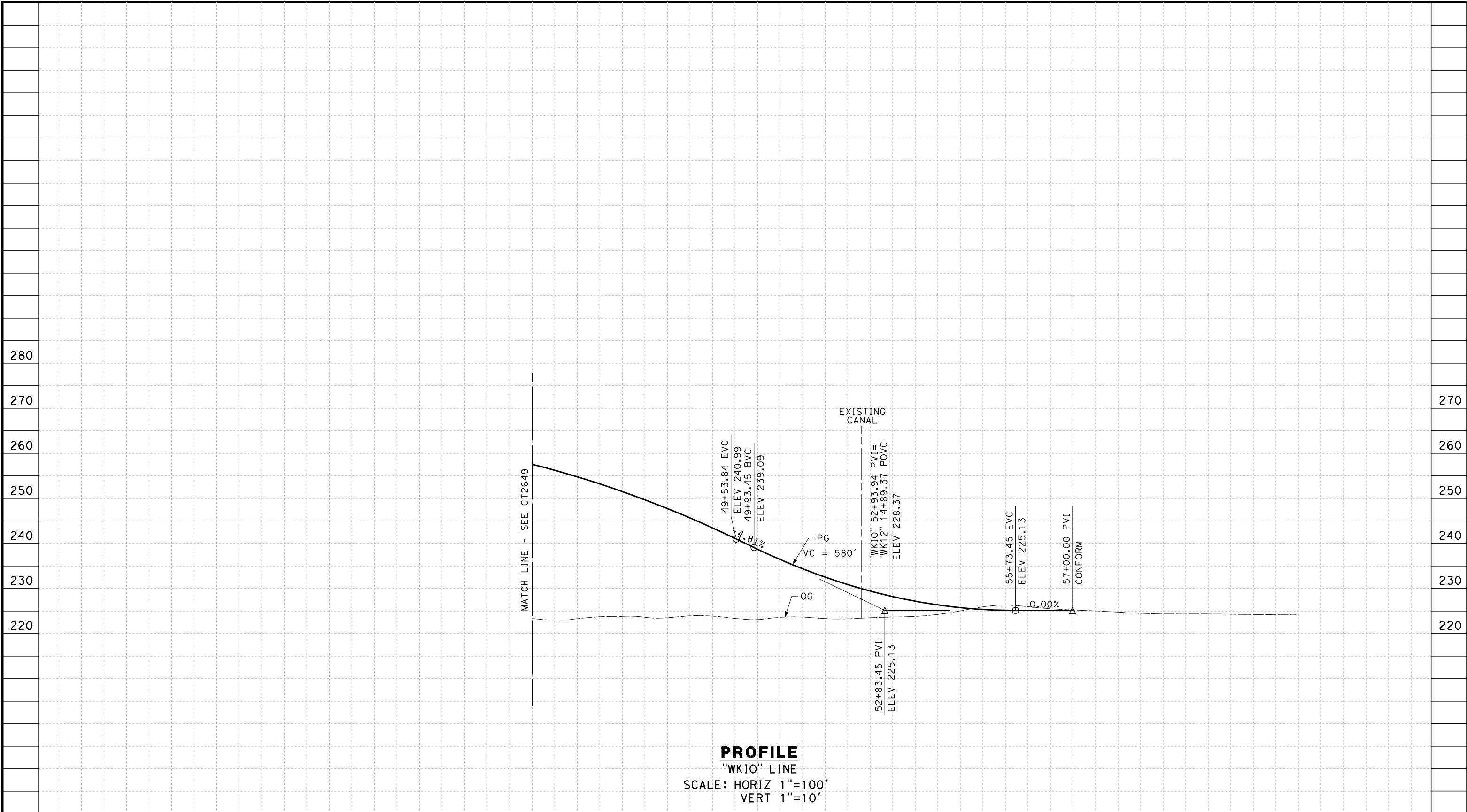


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION PROFILE
IONA AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2649 |
| SCALE | AS SHOWN |
| SHEET NO. | 15 OF 35 |

12/29/2013 12:28:16 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\0150147\FB-CT-2650-K6.dgn



PROFILE
 "WK10" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 60 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

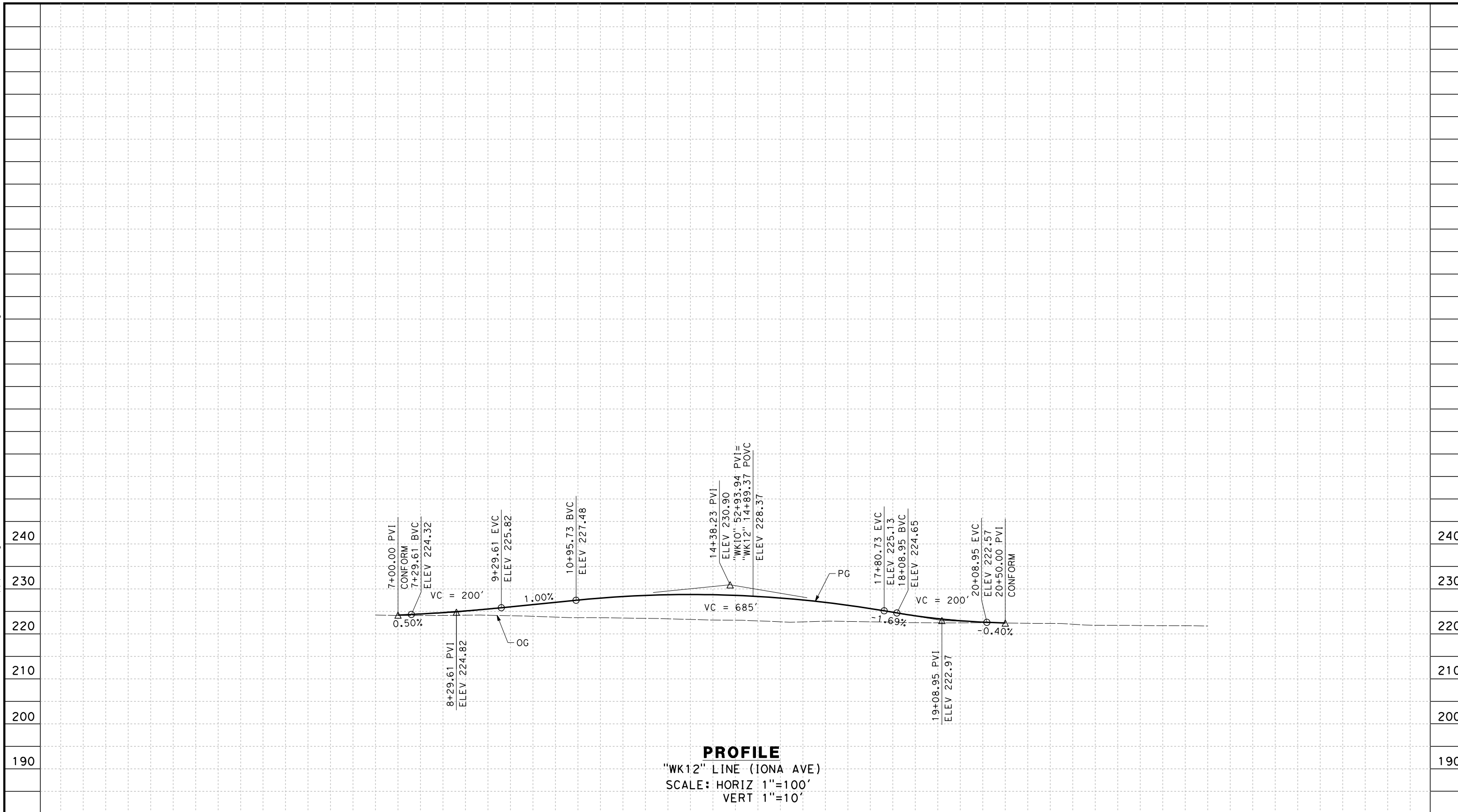
**RECORD SET 15%
 DESIGN SUBMISSION**
 -
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 IONA AVE & 12TH AVE (IONA AVE)

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 CT2650
 SCALE
 AS SHOWN
 SHEET NO.
 16 OF 35

12/29/2013 12:28:32 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\0150147\FB-CT-2651-K6.dgn



| | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|--|
| STATION | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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

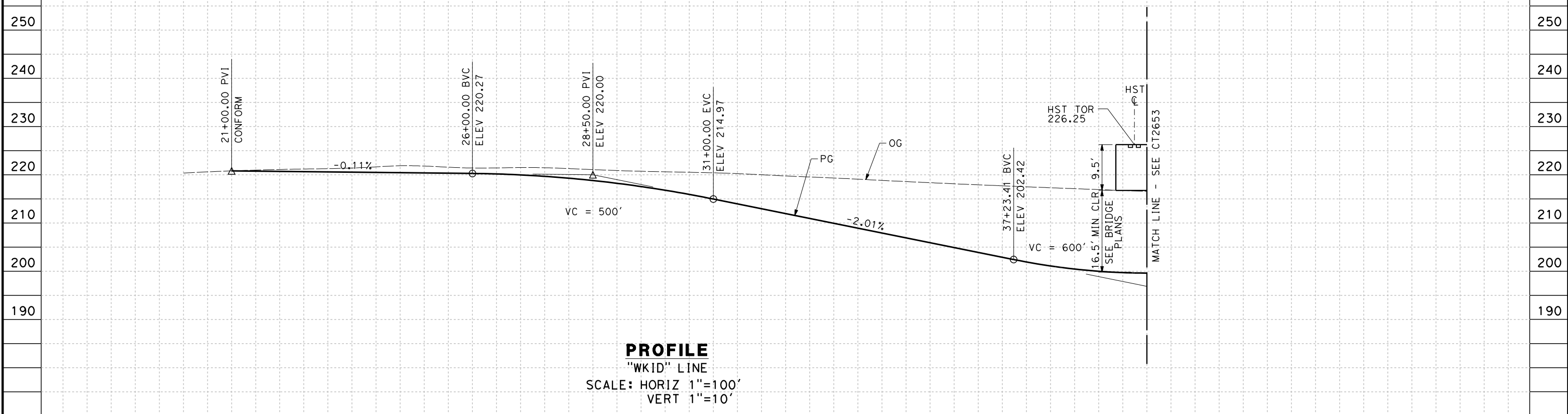


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 12TH AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2651
 SCALE
AS SHOWN
 SHEET NO.
17 OF 35

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROADWAY SURFACE



| | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|--|
| STATION | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

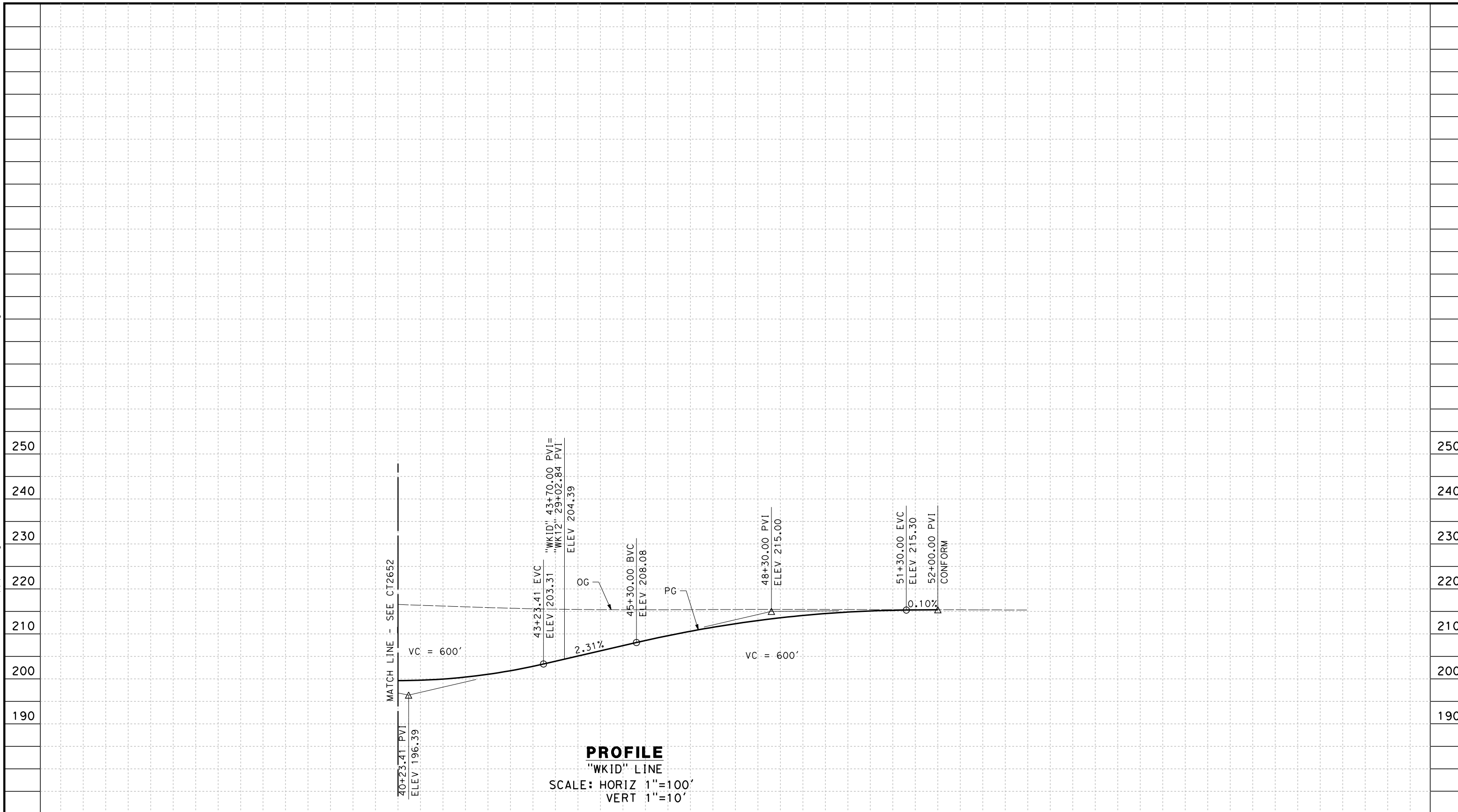


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION PROFILE
IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2652
SCALE
AS SHOWN
SHEET NO.
18 OF 35

12/29/2013 12:28:47 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\d0150147\FB-CT-2652-K6.dgn

12/29/2013 12:29:03 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\bar59603\d0150147\FB-CT-2653-K6.dgn



| | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 40 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



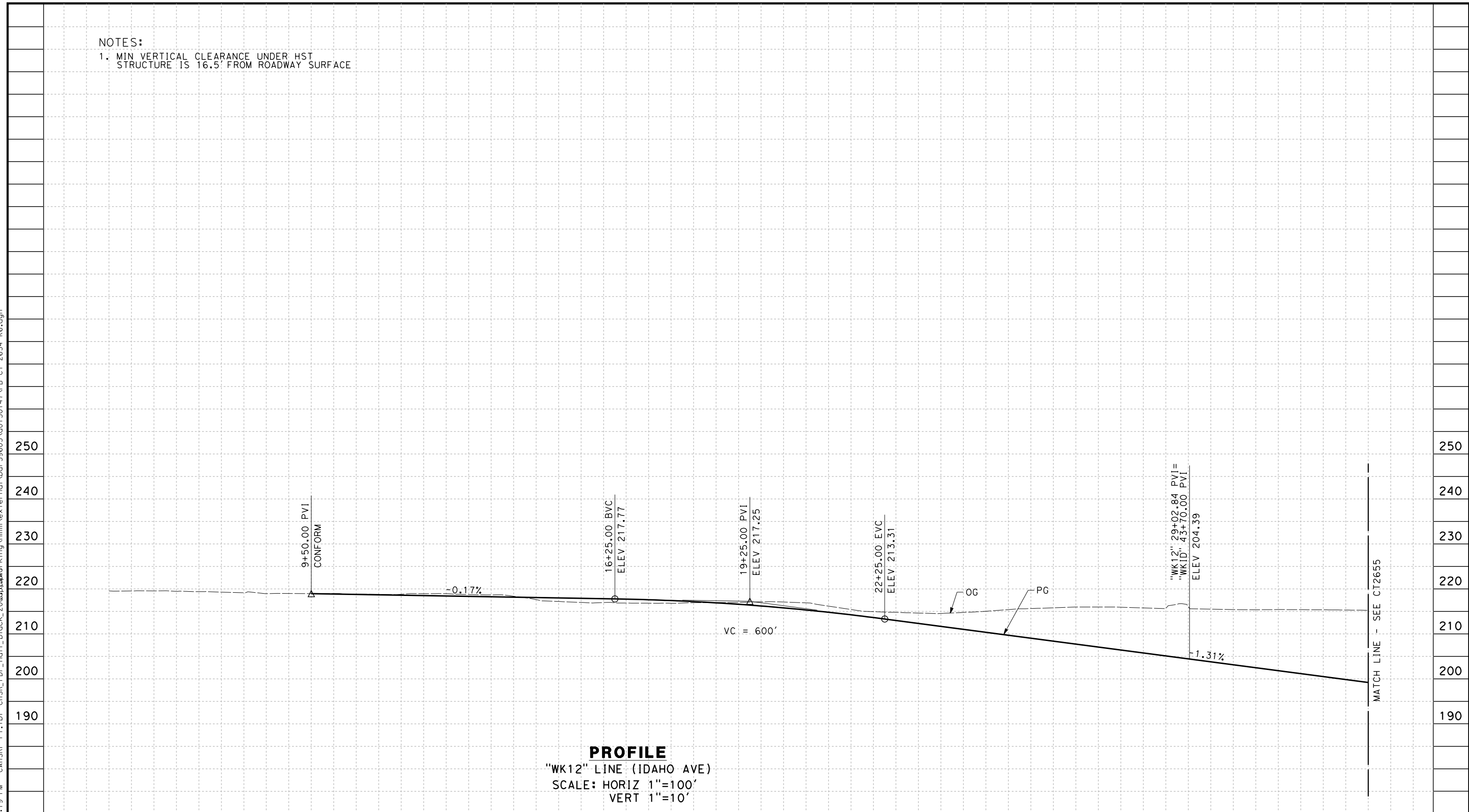
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION PROFILE
IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2653
SCALE
AS SHOWN
SHEET NO.
19 OF 35

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROADWAY SURFACE

12/29/2013 12:29:19 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\d0150147\FB-CT-2654-K6.dgn



PROFILE
 "WK12" LINE (IDAHO AVE)
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK

DRAWN BY
T. PRETZER

CHECKED BY
T. CLIFFORD

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
 GRADE SEPARATION PROFILE
 12TH AVE

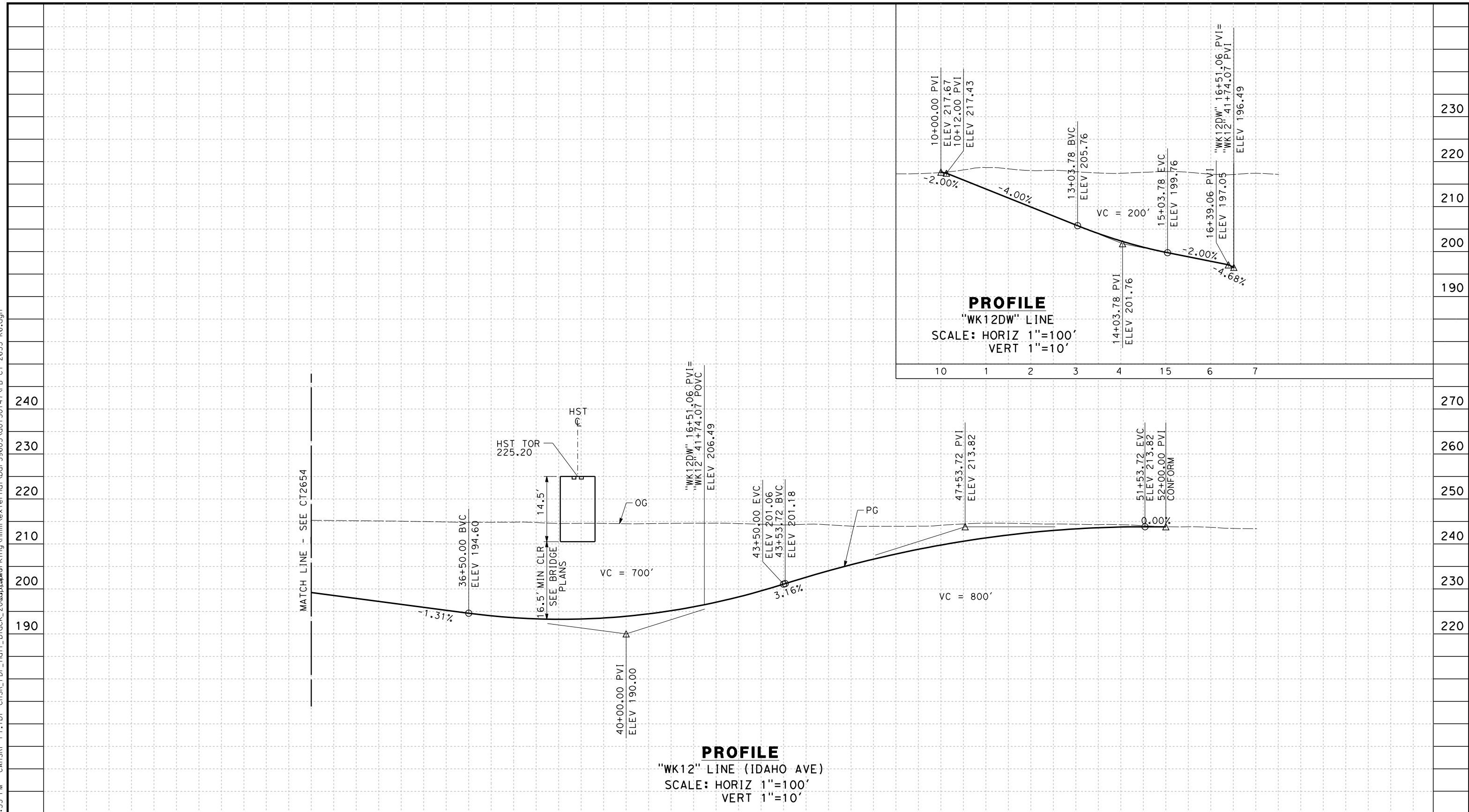
CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT2654

SCALE
AS SHOWN

SHEET NO.
20 OF 35

12/29/2013 12:29:35 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\d0150147\FB-CT-2655-K6.dgn



| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
DRAWN BY
T. PRETZER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



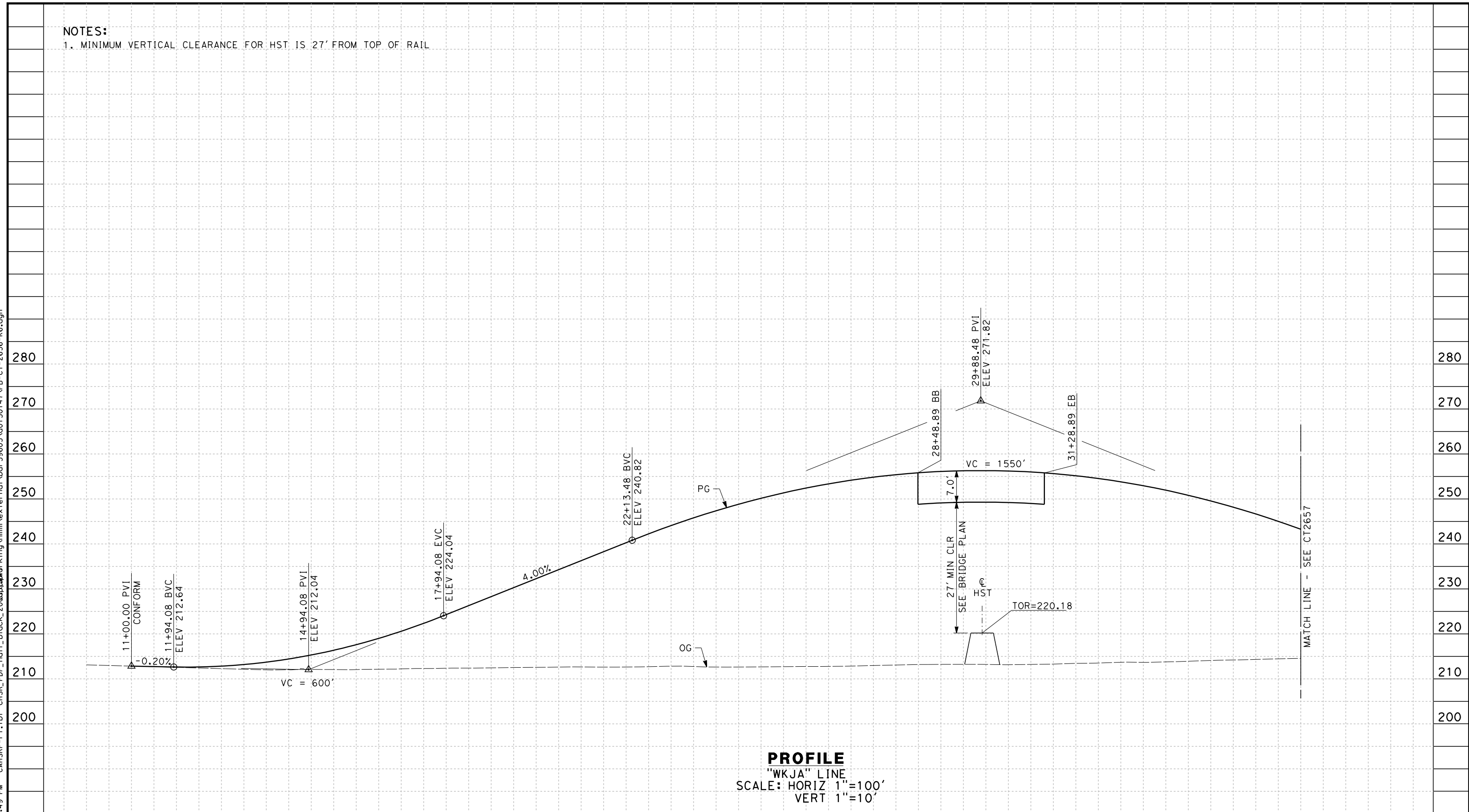
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
KAWEAH SUBSECTION
ALIGNMENT K6
GRADE SEPARATION PROFILE
12TH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2655
SCALE
AS SHOWN
SHEET NO.
21 OF 35

NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL

12/29/2013 12:29:49 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603-CT-2656-K6.dgn



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|-------|
| STATION | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

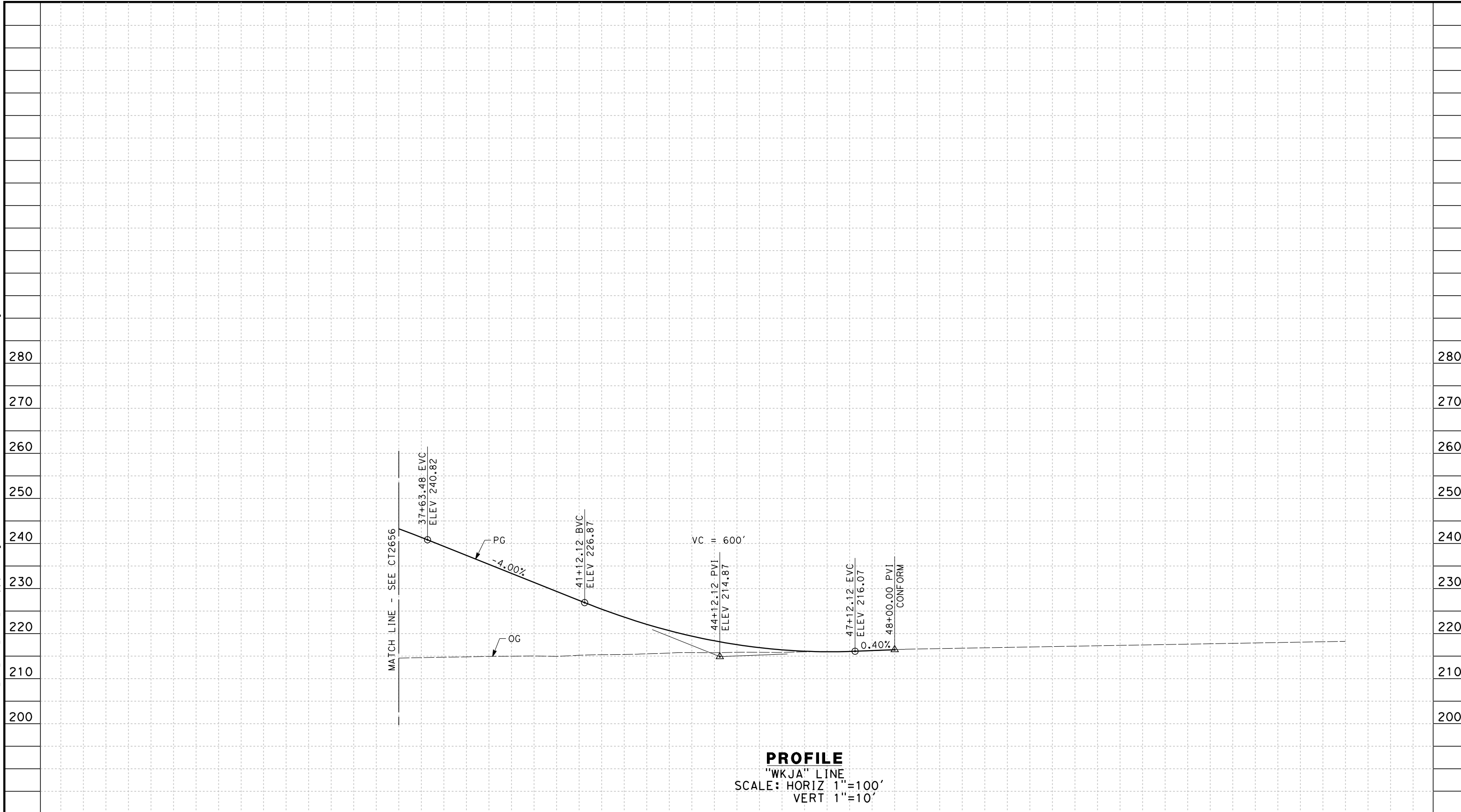
**RECORD SET 15%
 DESIGN SUBMISSION**
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 JACKSON AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2656
 SCALE
AS SHOWN
 SHEET NO.
22 OF 35

12/29/2013 12:30:05 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603.ctb 2657-K6.dgn



PROFILE
 "WKJA" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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

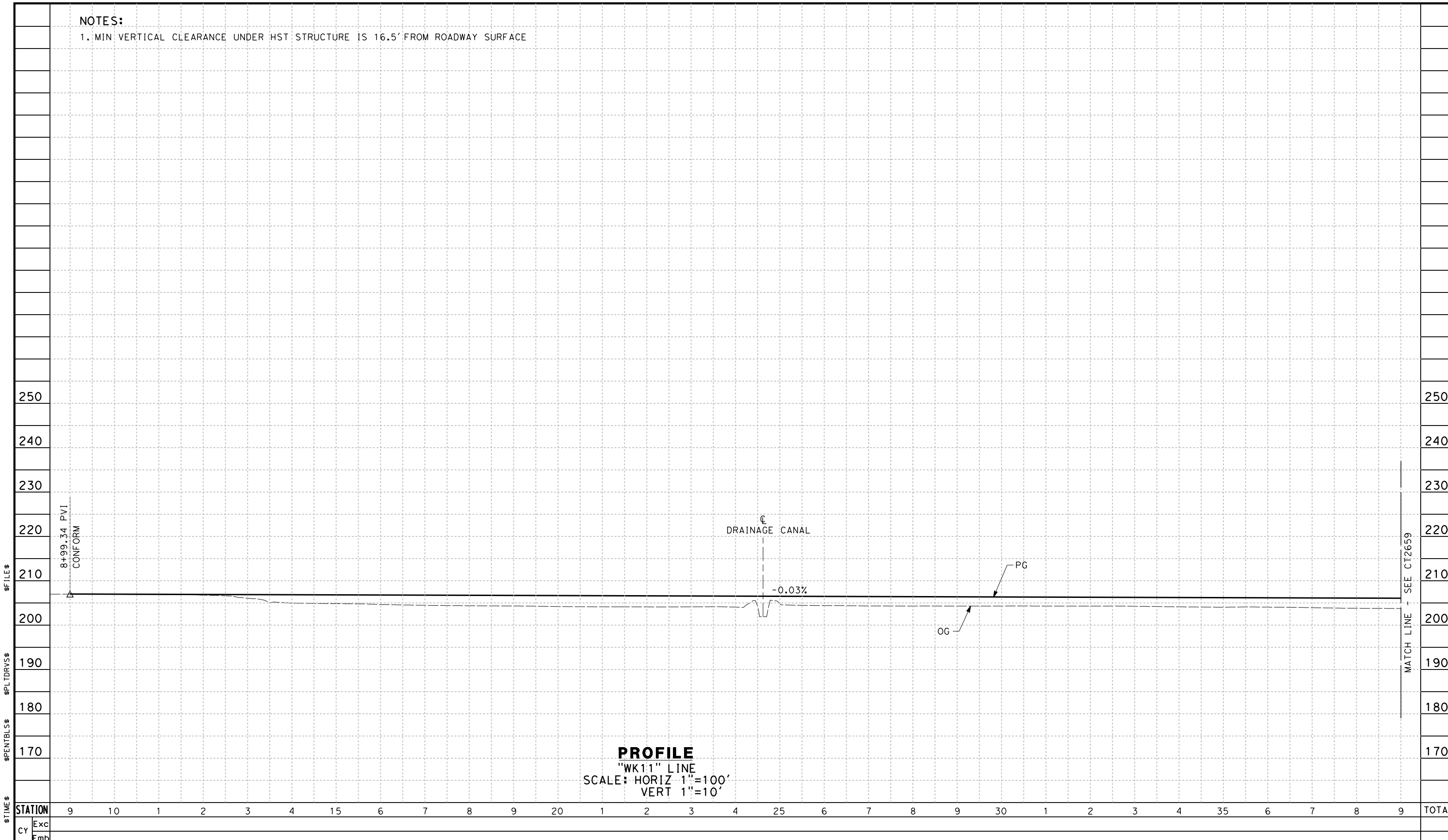


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 JACKSON AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2657
 SCALE
AS SHOWN
 SHEET NO.
23 OF 35

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROADWAY SURFACE



PROFILE
 "WK11" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|-------|
| STATION | 9 | 10 | 1 | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------|-------------|
| DESIGNED BY | I. JOSIFEK |
| DRAWN BY | T. PRETZER |
| CHECKED BY | T. CLIFFORD |
| IN CHARGE | R. COFFIN |
| DATE | 12/31/13 |

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

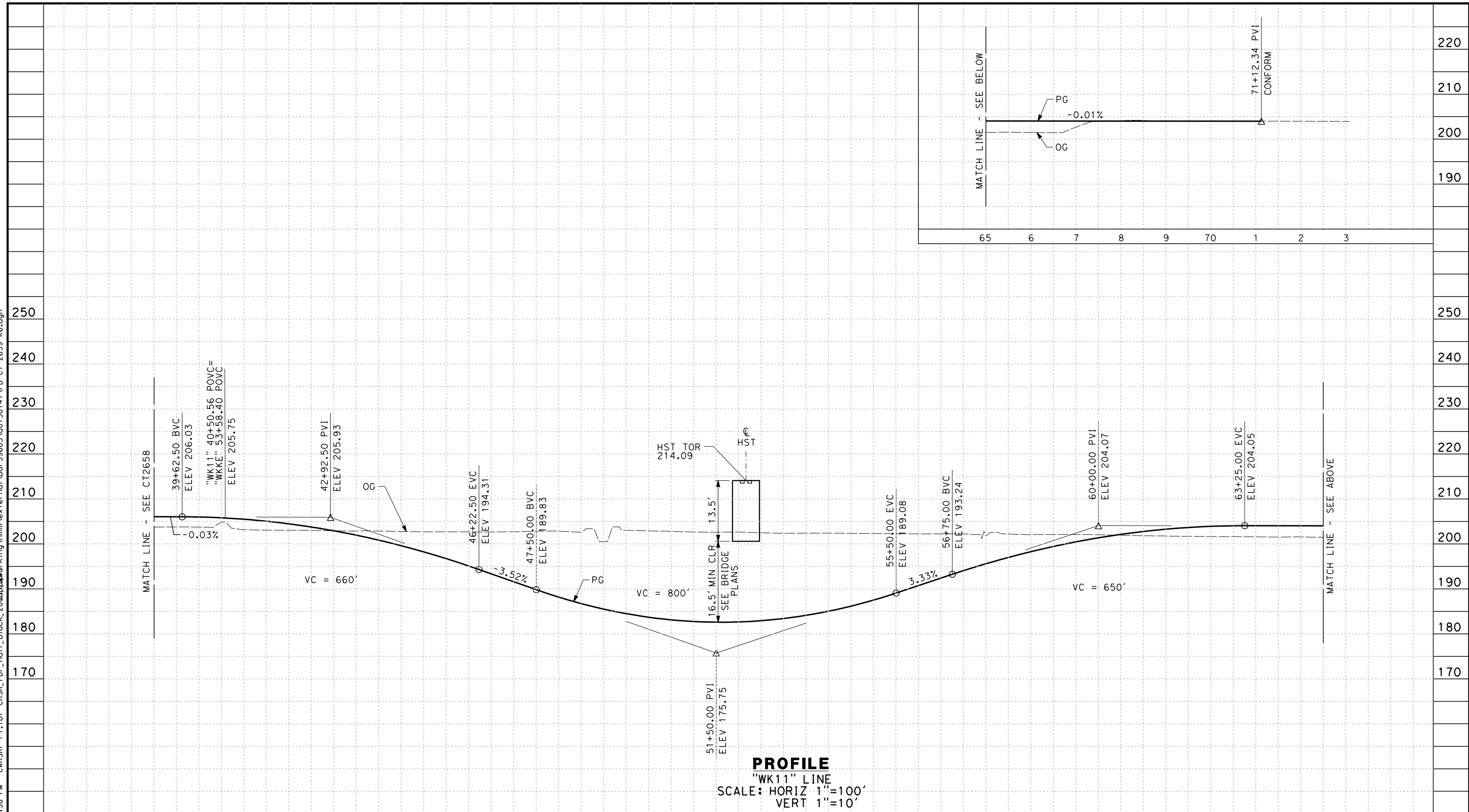


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**

KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 S 11TH AVE

| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2658 |
| SCALE | AS SHOWN |
| SHEET NO. | 24 OF 35 |

12/29/2013 2:30:38 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\external\bar59603\d0150147\FB-CT-2659-K6.dgn



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | 9 | 60 | 1 | 2 | 3 | 4 | 65 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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



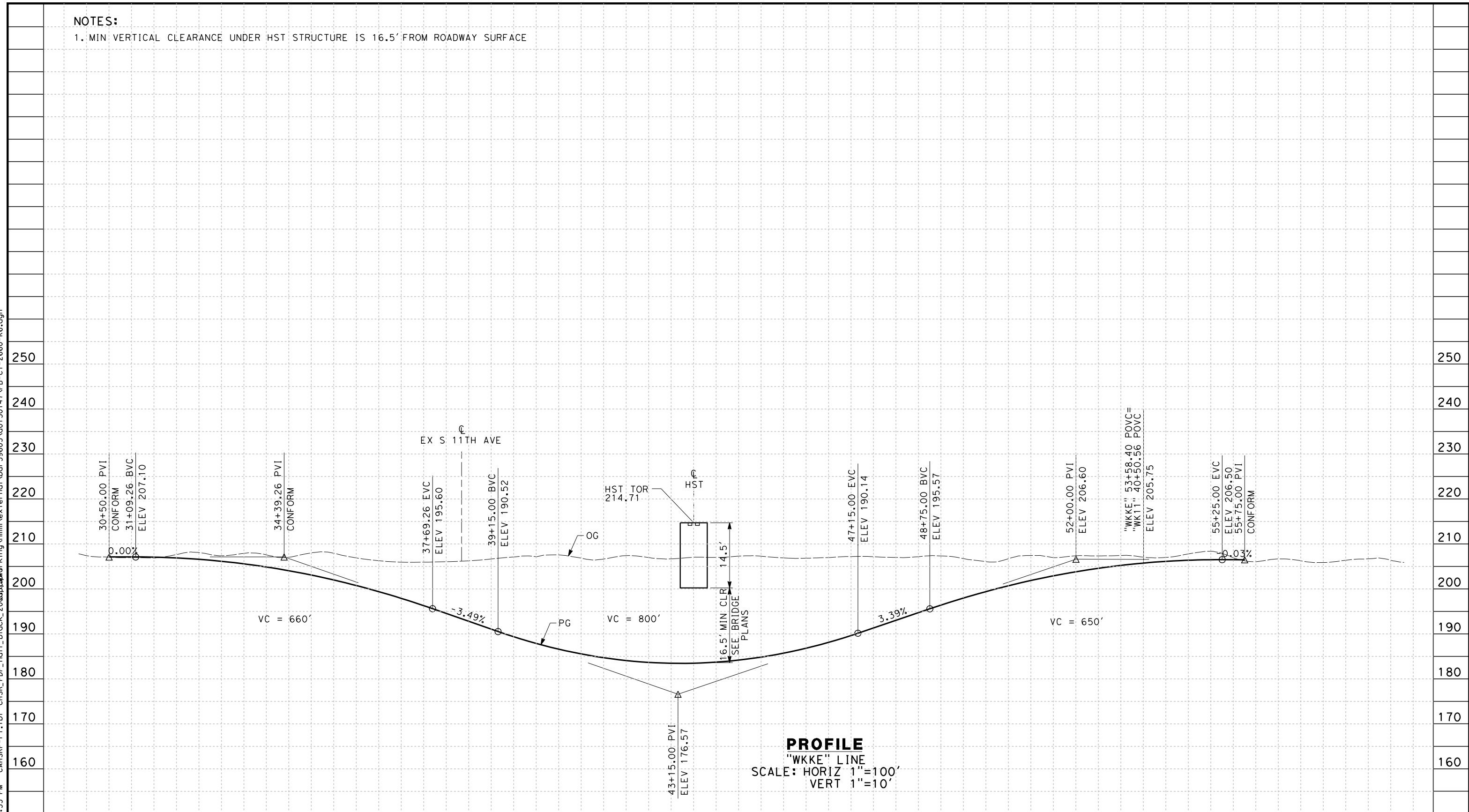
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 S 11TH AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2659
 SCALE
AS SHOWN
 SHEET NO.
25 OF 35

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROADWAY SURFACE

12/29/2013 2:30:55 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\ad0150147\FB-CT-2660-K6.dgn



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | 1 | 2 | 3 | 4 | 55 | 6 | 7 | 8 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



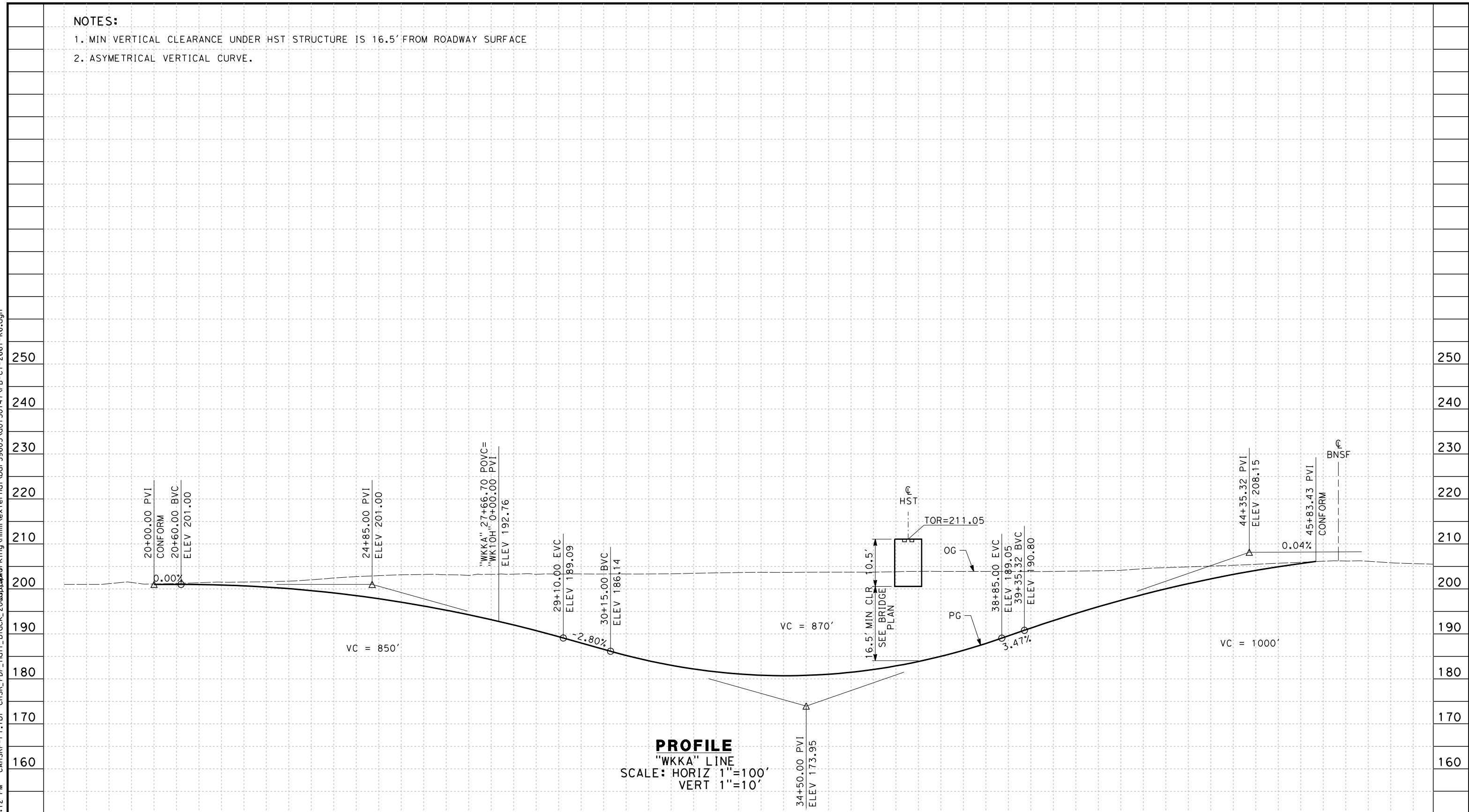
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 KENT AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2660
 SCALE
AS SHOWN
 SHEET NO.
26 OF 35

NOTES:

1. MIN VERTICAL CLEARANCE UNDER HST STRUCTURE IS 16.5' FROM ROADWAY SURFACE
2. ASYMETRICAL VERTICAL CURVE.

12/29/2013 3:12:12 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150147\FB-CT-2661-K6.dgn



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|-------|
| STATION | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

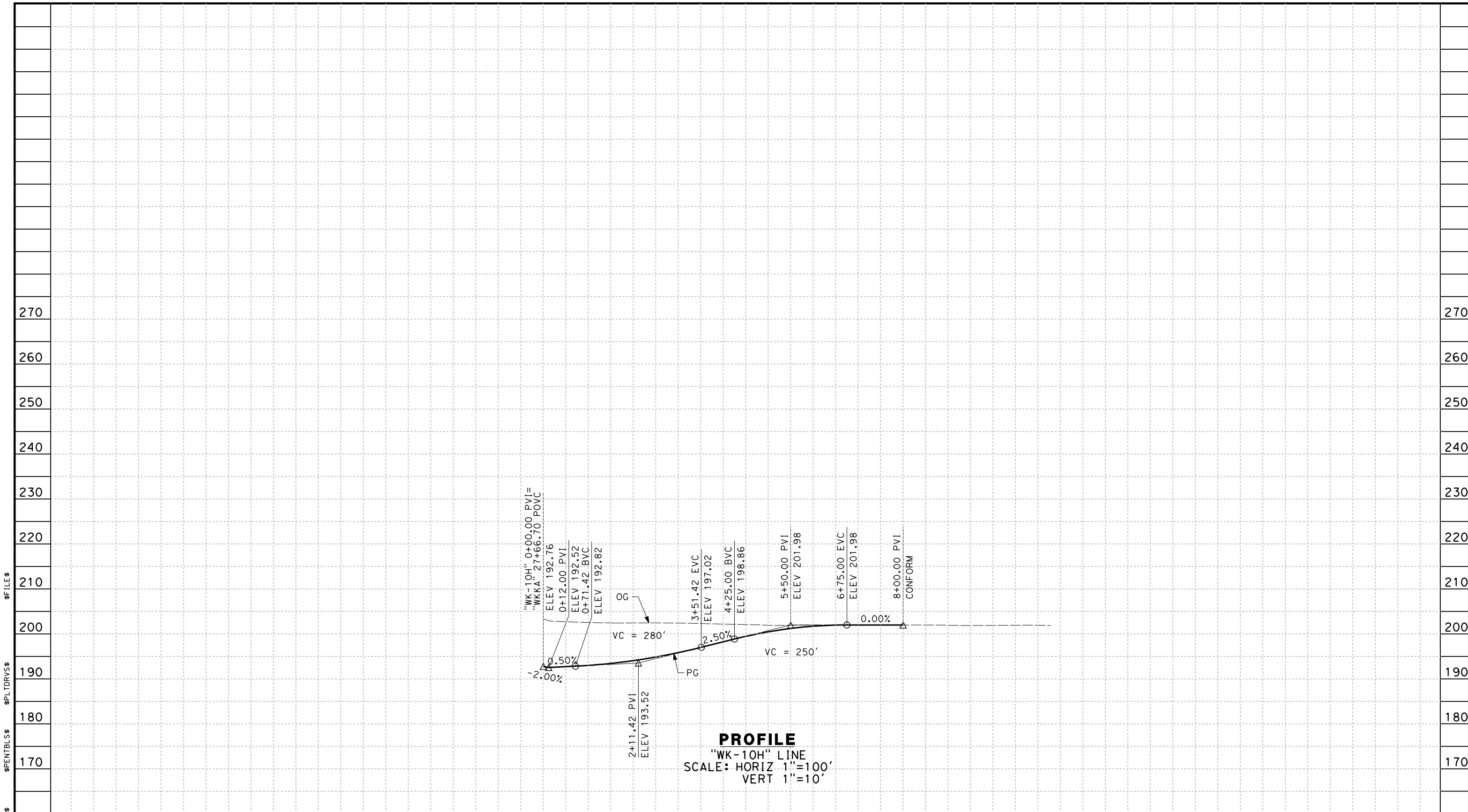
DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 KANSAS AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2661
 SCALE
AS SHOWN
 SHEET NO.
27 OF 35



PROFILE
 "WK-10H" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|----|-------|
| STATION | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL |
| Exc | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | |

| | |
|-------------|-------------|
| DESIGNED BY | I. JOSIFEK |
| DRAWN BY | T. PRETZER |
| CHECKED BY | T. CLIFFORD |
| 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
 GRADE SEPARATION PROFILE
 10 1/2 AVE

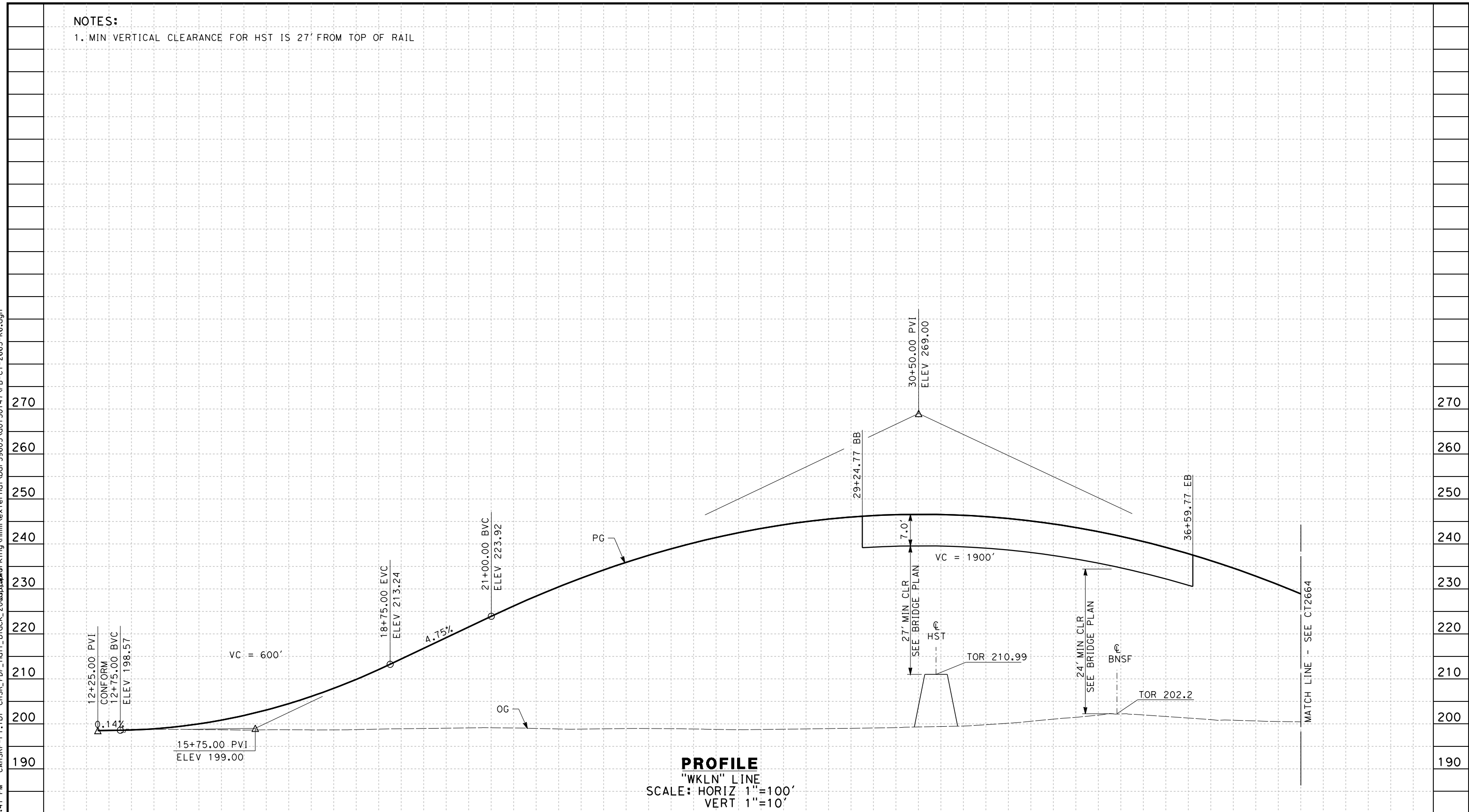
| | |
|--------------|-------------|
| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO. | CT2662 |
| SCALE | AS SHOWN |
| SHEET NO. | 28 OF 35 |

REV DATE BY CHK APP DESCRIPTION

NOTES:

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL

12/29/2013 2:31:41 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150147\FB-CT-2663-K6.dgn



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|-------|
| STATION | 2 | 3 | 4 | 15 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | TOTAL |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

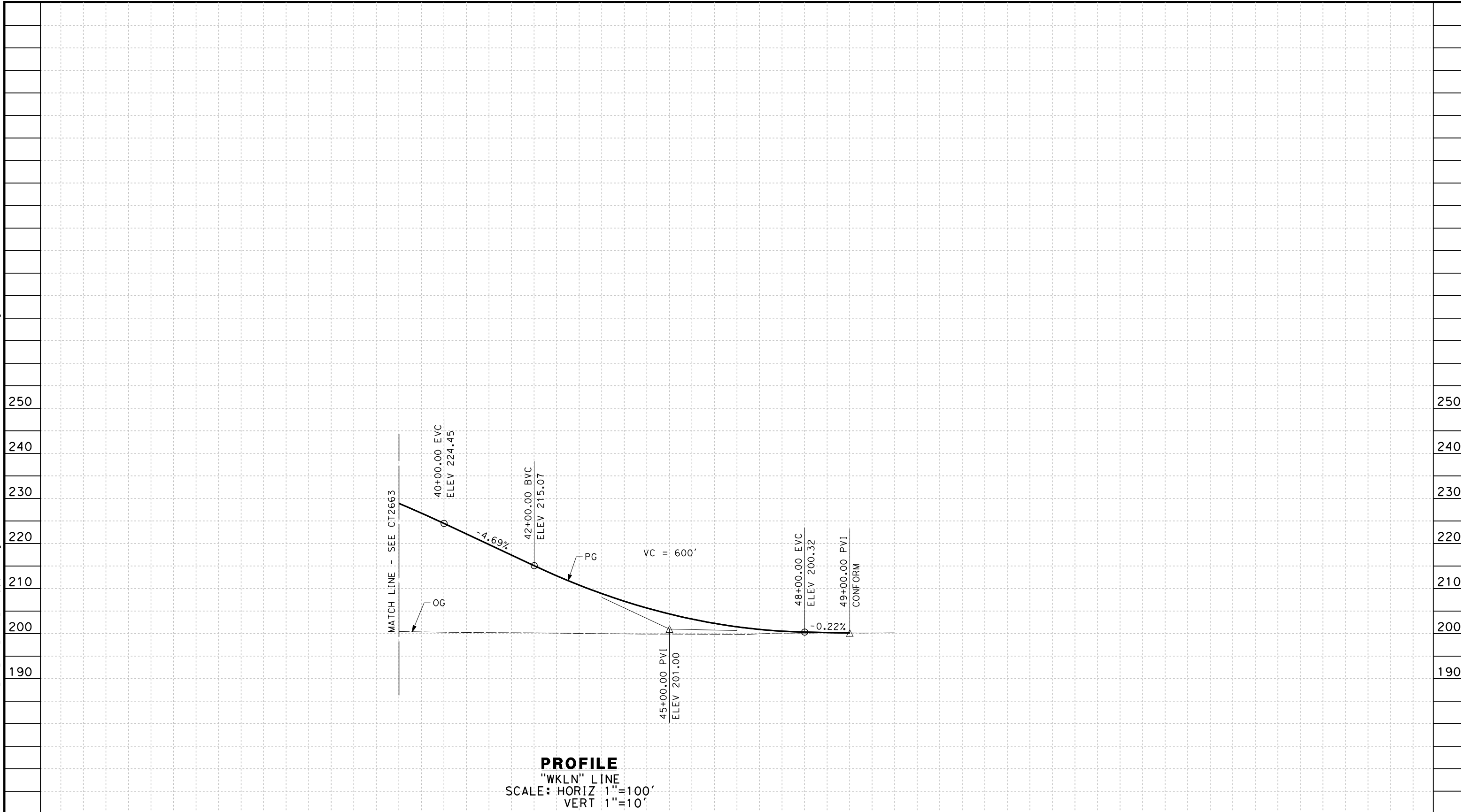
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 LANSING AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2663
 SCALE
AS SHOWN
 SHEET NO.
29 OF 35

12/29/2013 12:31:57 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\d0150147\FB-CT-2664-K6.dgn



PROFILE
 "WKLN" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | |
|---------|---|----|---|---|---|---|----|---|---|---|---|----|-------|
| STATION | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | 8 | 9 | 50 | TOTAL |
| Exc | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |
| | | | | | |
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

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



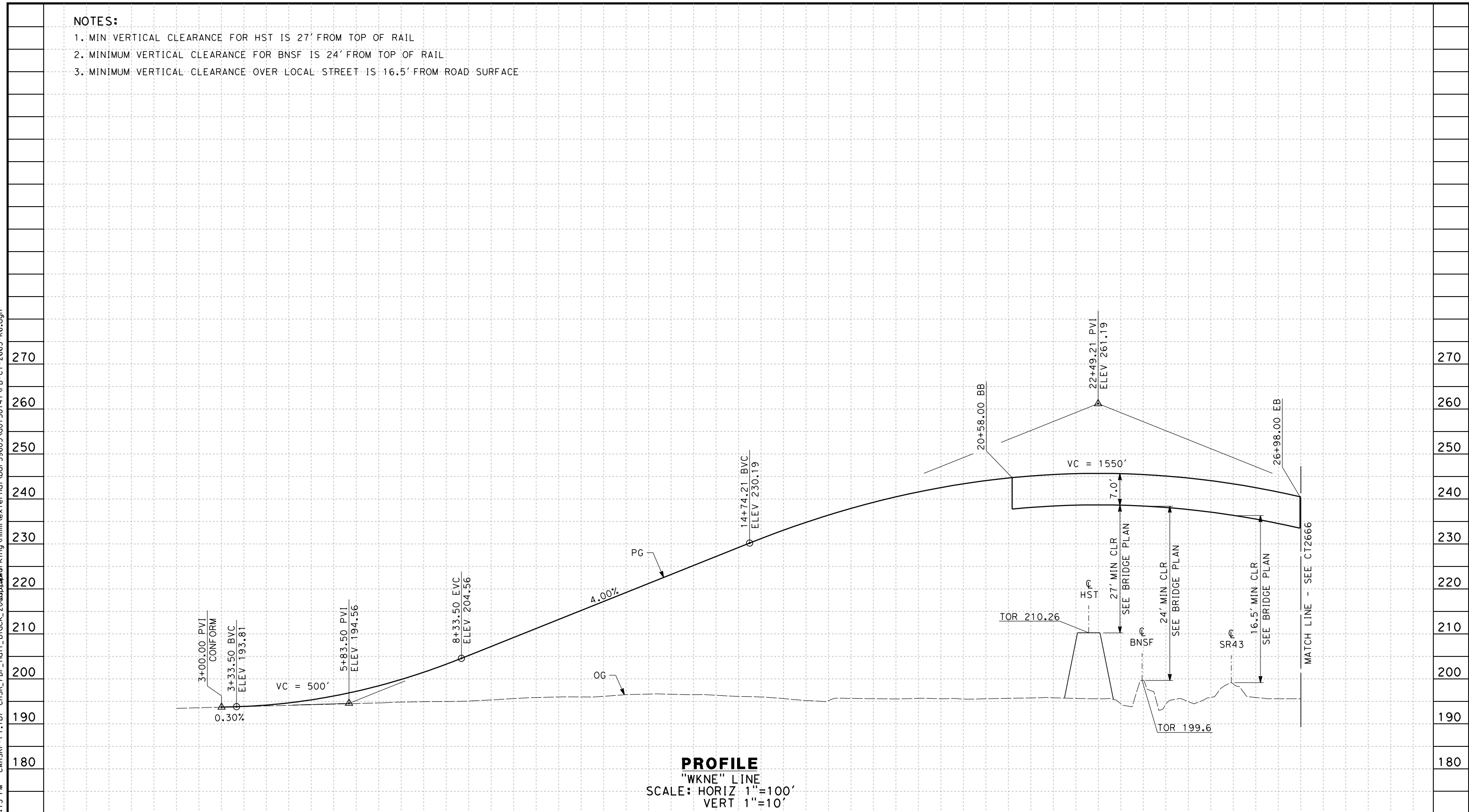
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 LANSING AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2664
 SCALE
AS SHOWN
 SHEET NO.
30 OF 35

NOTES:

1. MIN VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE

12/29/2013 2:32:13 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\d0150147\FB-CT-2665-K6.dgn



PROFILE
 "WKNE" LINE
 SCALE: HORIZ 1"=100'
 VERT 1"=10'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|----|---|---|-------|--|
| STATION | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 25 | 6 | 7 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

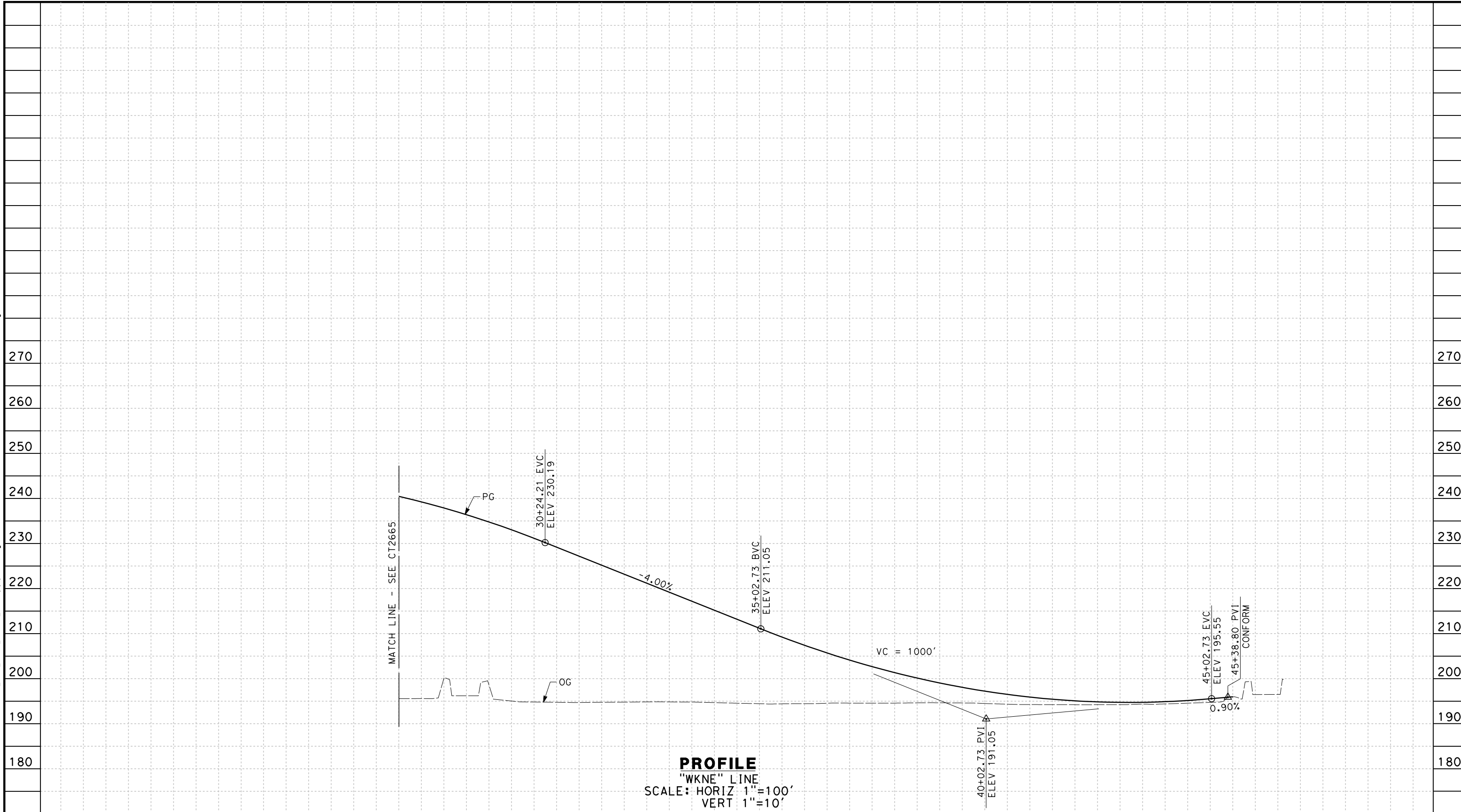
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 KAWEAH SUBSECTION
 ALIGNMENT K6
 GRADE SEPARATION PROFILE
 NEVADA AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2665
 SCALE
AS SHOWN
 SHEET NO.
31 OF 35

12/29/2013 12:32:29 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.dwg \\bar59603\external\bar59603.ctb CT-2666-K6.dgn



| | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|-------|--|
| STATION | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 35 | 6 | 7 | 8 | 9 | 40 | 1 | 2 | 3 | 4 | 45 | 6 | 7 | TOTAL | |
| Exc | | | | | | | | | | | | | | | | | | | | | | | |
| Emb | | | | | | | | | | | | | | | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK
 DRAWN BY
T. PRETZER
 CHECKED BY
T. CLIFFORD
 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
 GRADE SEPARATION PROFILE
 NEVADA AVE

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
CT2666
 SCALE
AS SHOWN
 SHEET NO.
32 OF 35

NOTES:

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

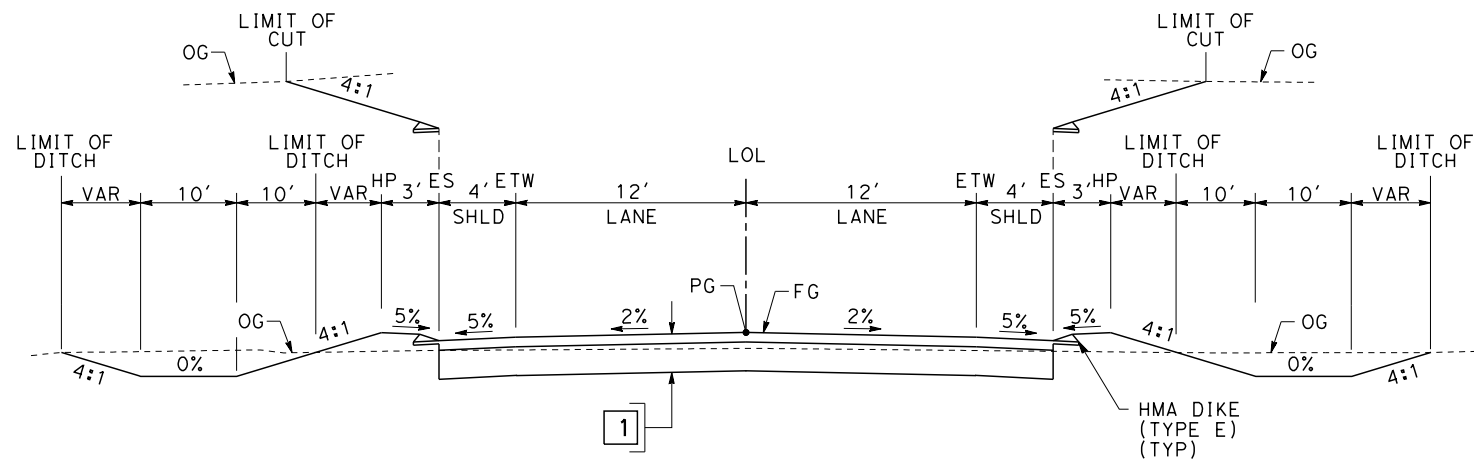
STRUCTURAL SECTIONS

TYPICAL ROADWAY (4' SHOULDER)

1 — 0.30' HMA (TYPE A)
1.40' CL 2' AB

TYPICAL ROADWAY (8' SHOULDER)

2 — 0.40' HMA (TYPE A)
1.70' CL 2' AB



SECTION A

- "WKJA" 11+94.08 TO 17+00.00
- "WKJA" 24+60.00 TO 28+48.89
- "WKJA" 31+28.89 TO 46+50.00
- "WKLN" 13+10.00 TO 29+24.77
- "WKLN" 36+59.77 TO 48+00.00
- "WKIO" 25+10.00 TO 38+12.68
- "WKIO" 41+02.68 TO 52+00.00

TABLE OF DESIGN SPEEDS

| STREET NAME | ALIGNMENT DESIGNATION | DESIGN SPEED | CRITERIA / JURISDICTION |
|-----------------------|-----------------------|--------------|---------------------------|
| IONA AVE | WKIO | 55 | KINGS COUNTY/KINGS COUNTY |
| 12TH AVE AT IONA AVE | WK12 | 60* | KINGS COUNTY/KINGS COUNTY |
| IDAHO AVE | WKID | 55 | KINGS COUNTY/KINGS COUNTY |
| 12TH AVE AT IDAHO AVE | WK12 | 60* | KINGS COUNTY/KINGS COUNTY |
| JACKSON AVE | WKJA | 55 | KINGS COUNTY/KINGS COUNTY |
| S 11TH AVE | WK11 | 55 | KINGS COUNTY/KINGS COUNTY |
| KENT AVE | WKKE | 55 | KINGS COUNTY/KINGS COUNTY |
| KANSAS AVE | WKKA | 60 | KINGS COUNTY/KINGS COUNTY |
| 10-1/2 AVE | WK-10H | 25 | KINGS COUNTY/KINGS COUNTY |
| LANSING AVE | WKLA | 55 | KINGS COUNTY/KINGS COUNTY |
| NEVADA AVE | WKNE | 50(40**) | KINGS COUNTY/KINGS COUNTY |
| 12TH AVE DRIVEWAY | WK12DW | 15 | KINGS COUNTY/KINGS COUNTY |

* DESIGN SPEED PER CITY OF HANFORD GENERAL PLAN

** WILL REQUIRE REDUCED DESIGN SPEED AT HORIZONTAL CURVE PRIOR TO STOP CONDITION

12/29/2013 12:32:44 PM CAHSR-r1.tbl CAHSR_PDF_half_black_200dpi.ctb \\bar59603\external\bar59603\external\bar59603\external\bar59603.ctb

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------|----|-----|-----|-------------|
| | | | | | |

DESIGNED BY
I. JOSIFEK

DRAWN BY
T. PRETZER

CHECKED BY
T. CLIFFORD

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
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT3365

SCALE
AS SHOWN

SHEET NO.
33 OF 35

