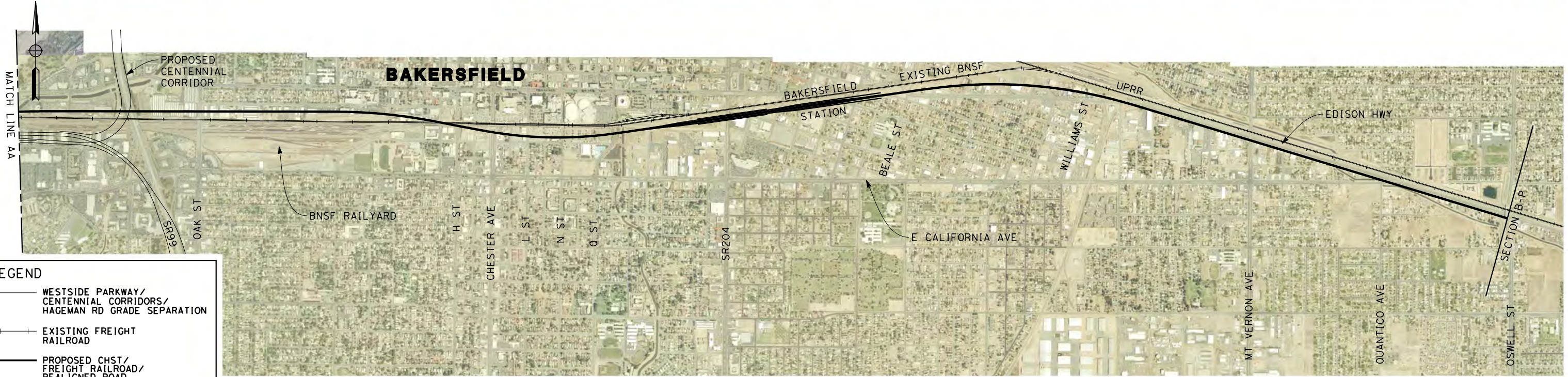
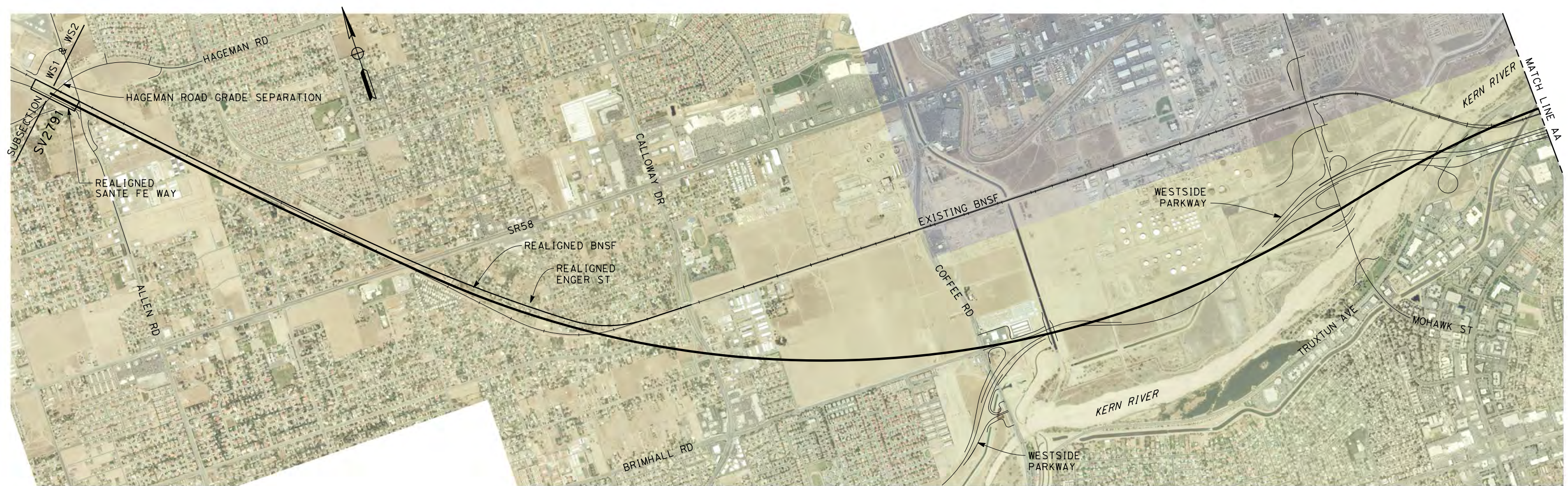
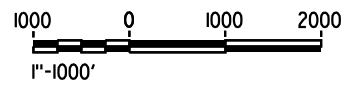


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LEGEND

- WESTSIDE PARKWAY/
CENTENNIAL CORRIDORS/
HAGEMAN RD GRADE SEPARATION
- EXISTING FREIGHT
RAILROAD
- PROPOSED CHST/
FREIGHT RAILROAD/
REALIGNED ROAD



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
 DRAWN BY
J. VALENZUELA
 CHECKED BY
A. ARMSTRONG
 IN CHARGE
R. COFFIN
 DATE
12/31/13

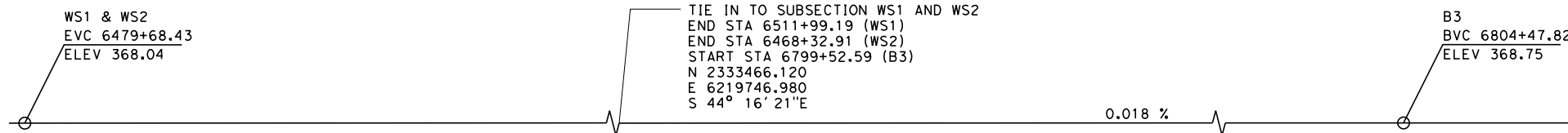
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

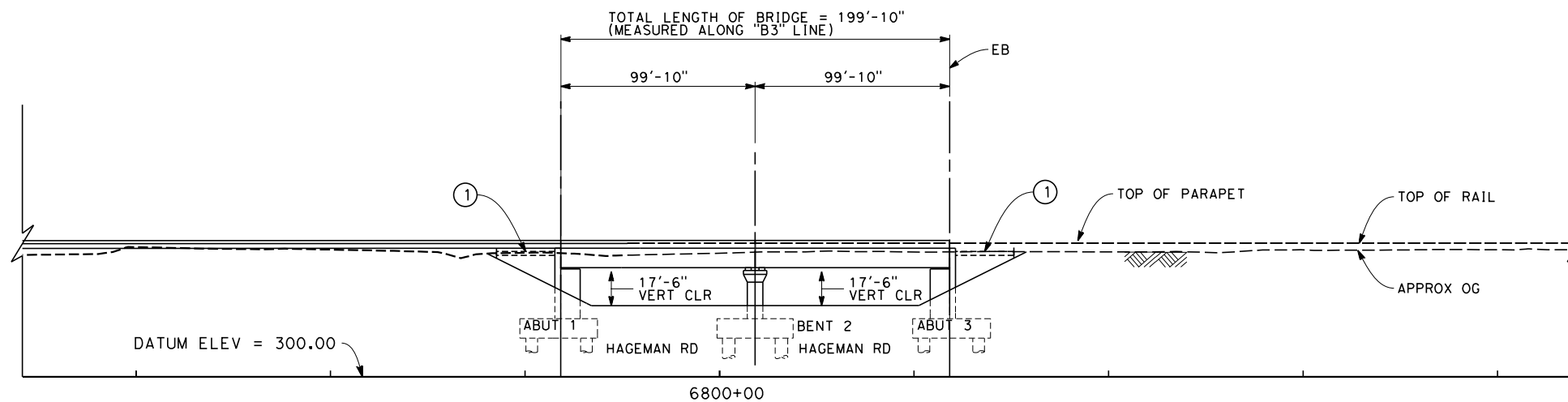


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 HAGEMAN ROAD UNDERPASS
 KEY MAP

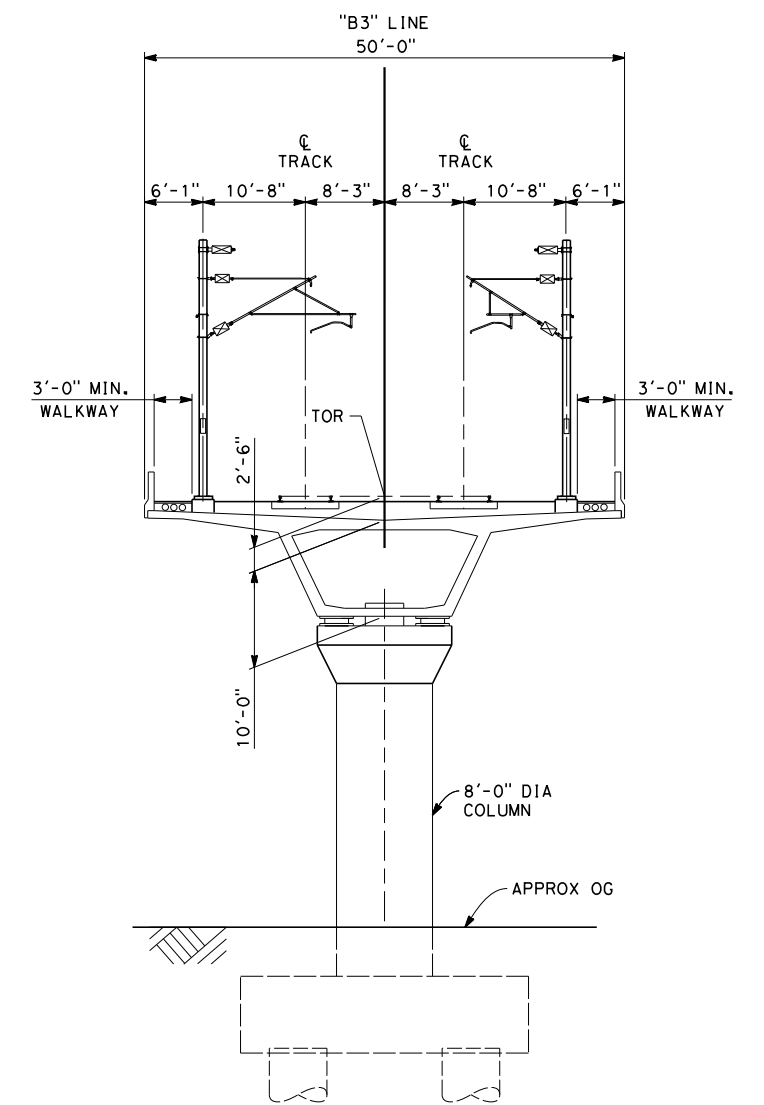
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
SV2790
 SCALE
AS SHOWN
 SHEET NO.
1 OF 2



TOP OF RAIL "B3" LINE
NO SCALE



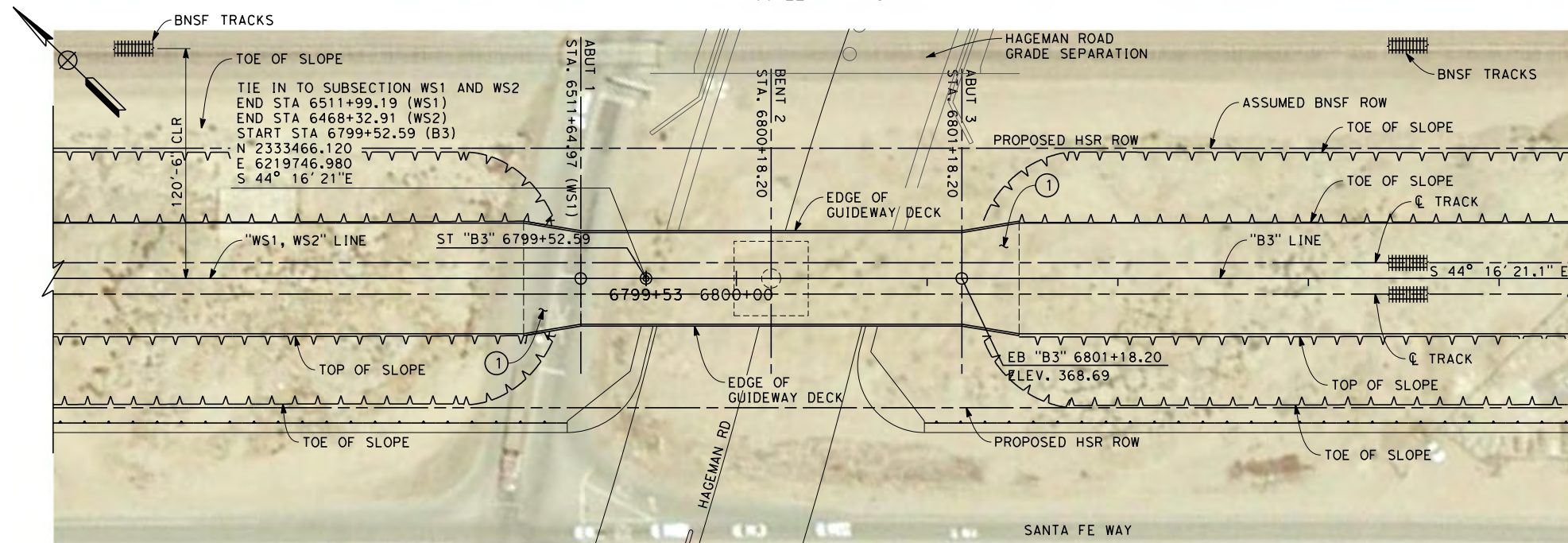
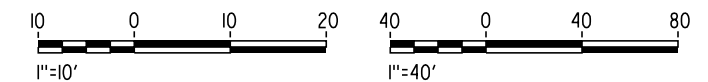
ELEVATION
SCALE 1" = 40'



TYPICAL SECTION
SCALE: 1" = 10'

NOTE:
1. PILE LENGTH TO BE DETERMINED.

LEGEND:
① STRUCTURE APPROACH SLAB
② RETAINING WALL



PLAN
SCALE 1" = 40'

frank.palerino.12/20/2013 3:35:14 PM CAHSR-r1.tbl PDF_half_black_200dpi.plt \\pwworking\hmm\external\frank.palerino01-arup.com\dms71888\FB-SV-2791-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
J. VALENZUELA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

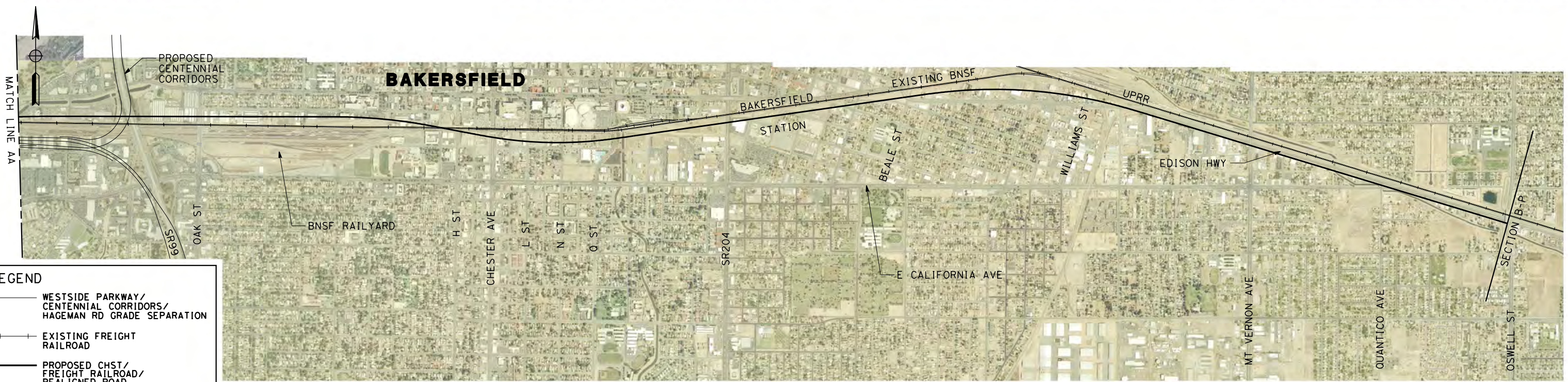
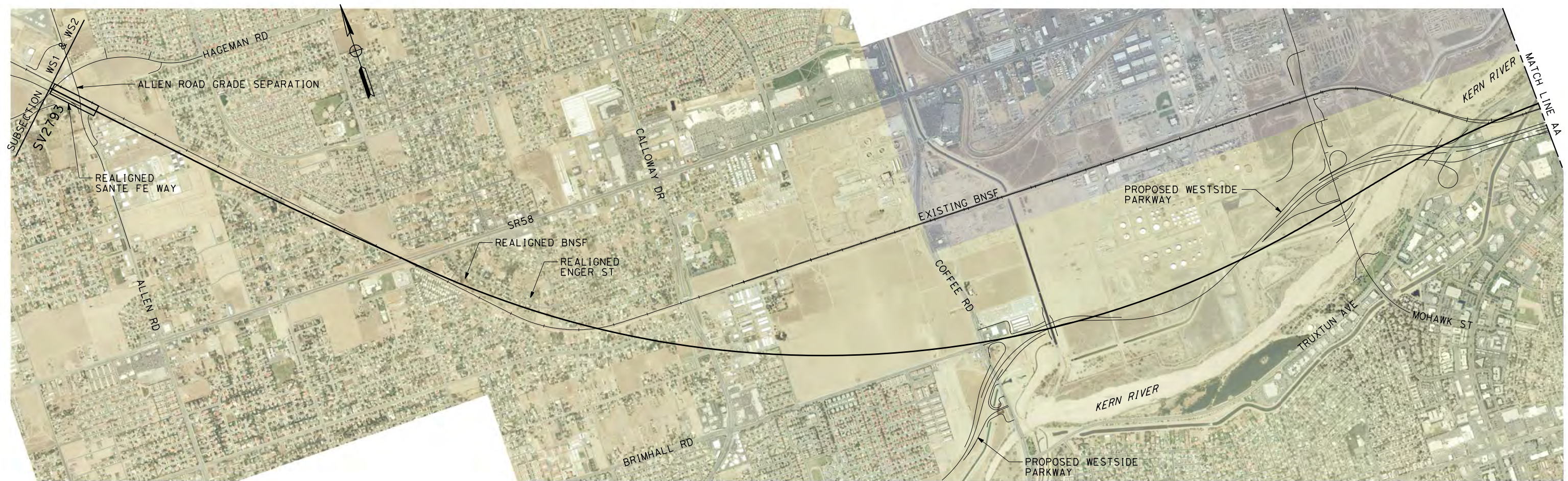
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
HAGEMAN ROAD UNDERPASS
PLAN AND ELEVATION

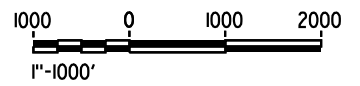
CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2791
SCALE
AS SHOWN
SHEET NO.
2 OF 2

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LEGEND

- WESTSIDE PARKWAY/
CENTENNIAL CORRIDORS/
HAGEMAN RD GRADE SEPARATION
- EXISTING FREIGHT
RAILROAD
- PROPOSED CHST/
FREIGHT RAILROAD/
REALIGNED ROAD



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
 DRAWN BY
J. VALENZUELA
 CHECKED BY
A. ARMSTRONG
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

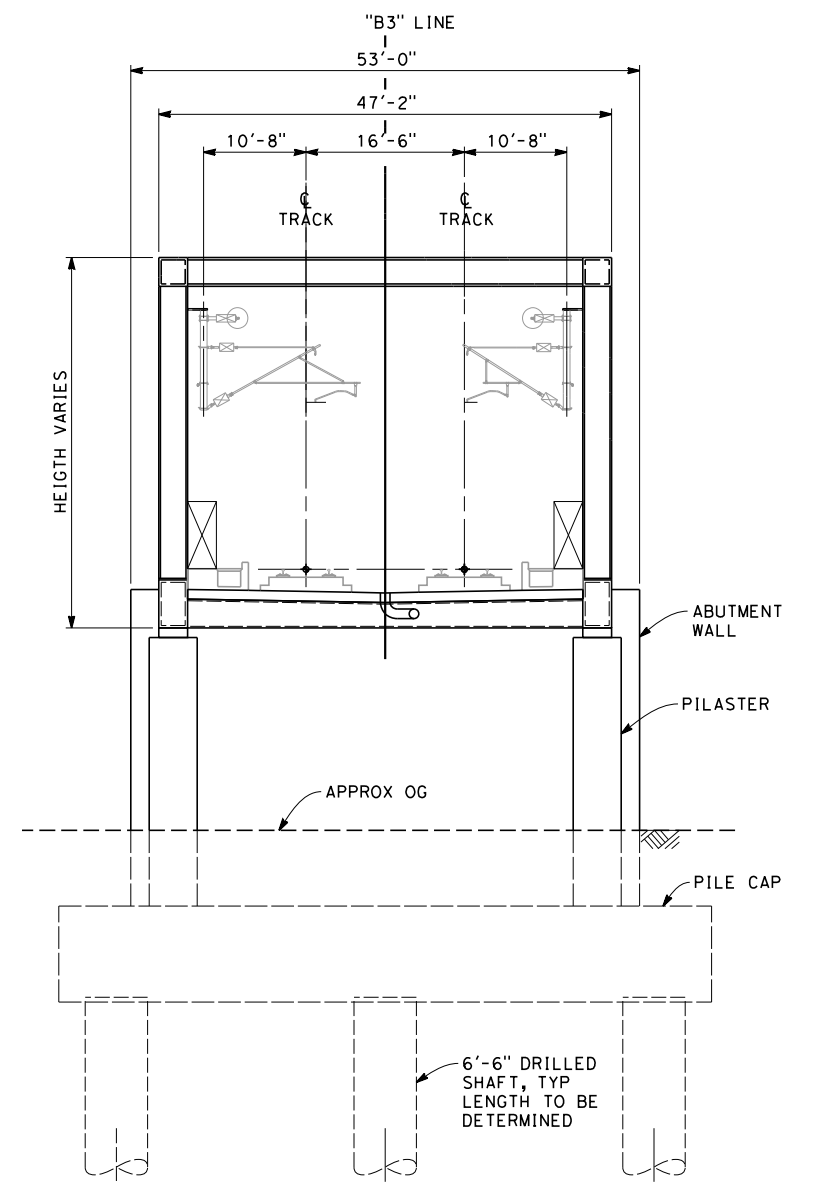
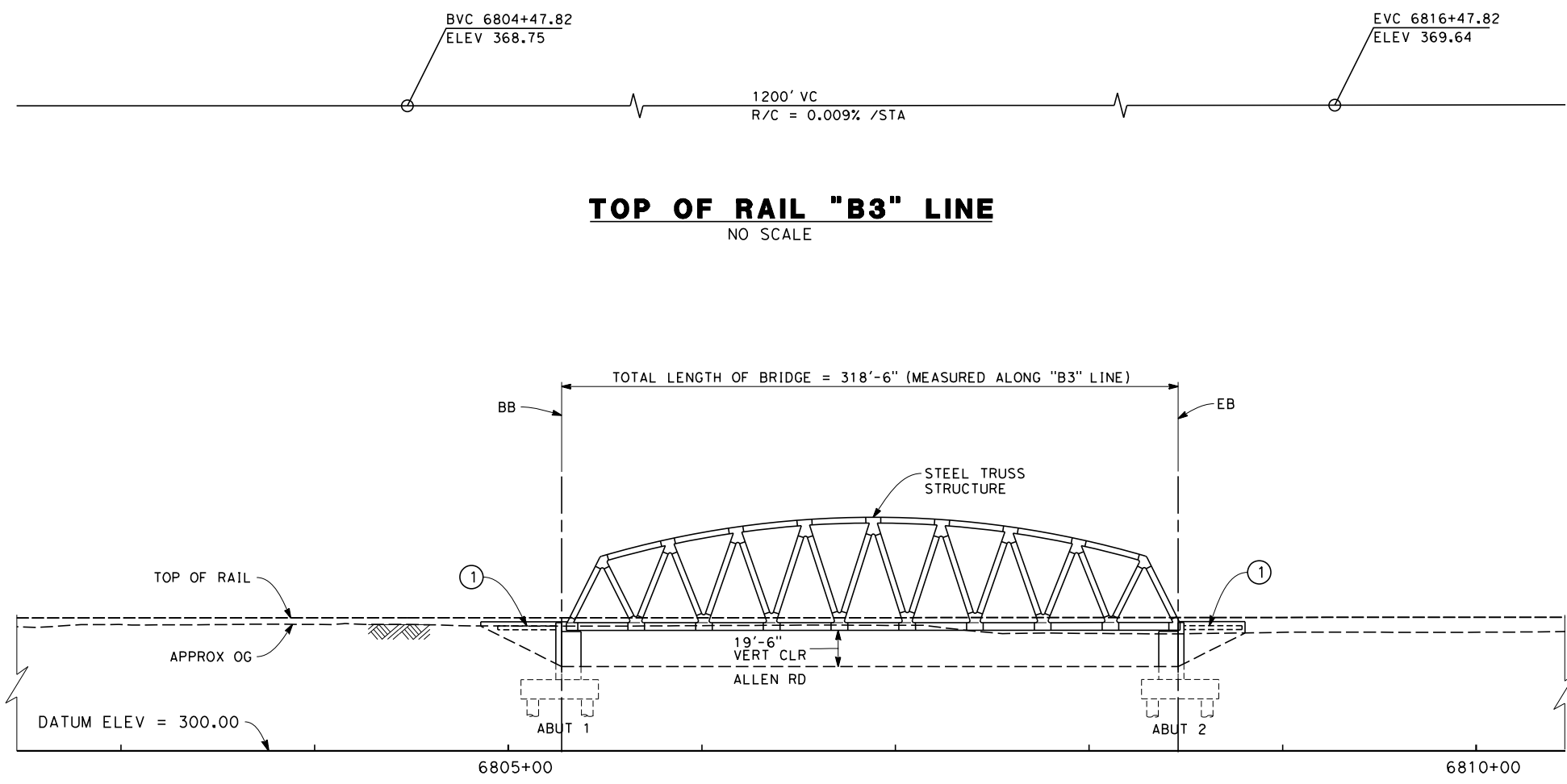
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 ALLEN ROAD UNDERPASS
 KEY MAP

CONTRACT NO.
HSR 06-0003
 DRAWING NO.
SV2792
 SCALE
AS SHOWN
 SHEET NO.
1 OF 2

frank.palermo.12/20/2013 3:36:14 PM CAHSR-r1.tbl PDF_half_black_200dpi.plt \\working\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2793-B3.dgn

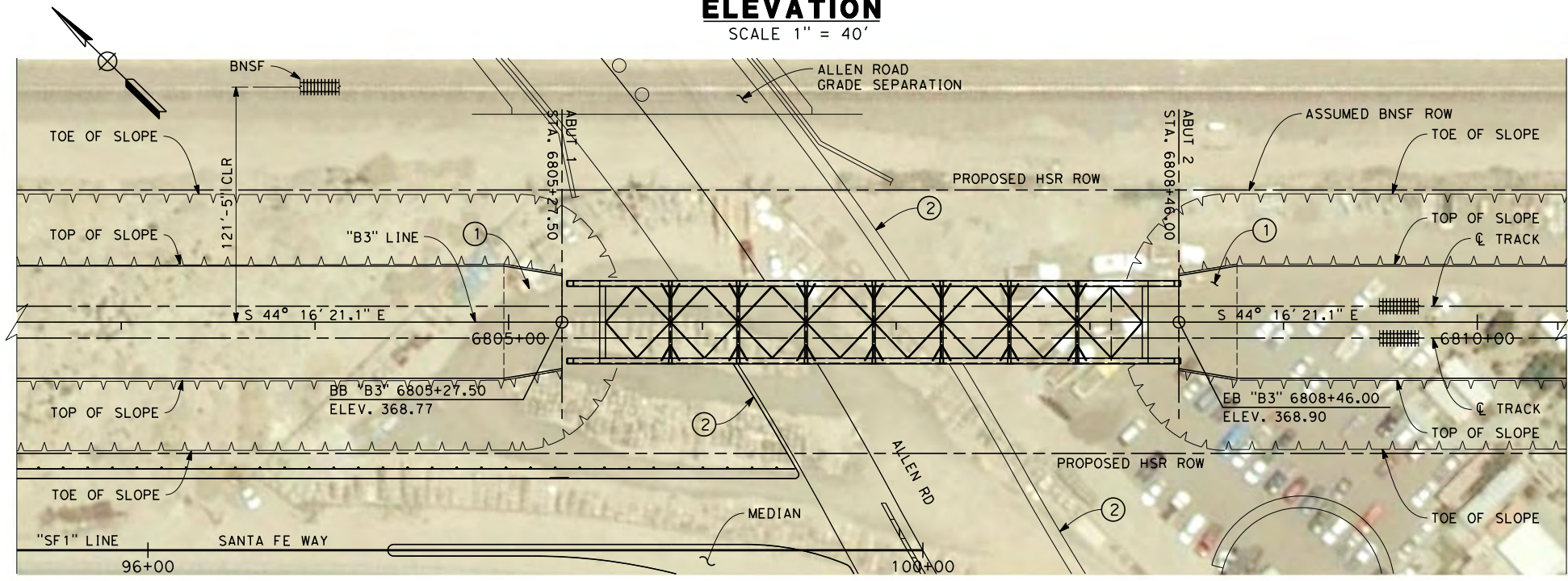
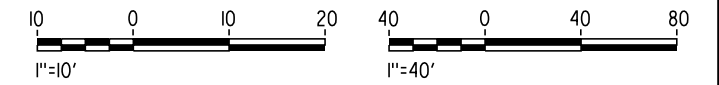


ELEVATION
 SCALE 1" = 40'

TYPICAL SECTION
 SCALE: 1" = 10'

NOTE:
 1. PILE LENGTH TO BE DETERMINED.

LEGEND:
 ① STRUCTURE APPROACH SLAB
 ② RETAINING WALL



PLAN
 SCALE 1" = 40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 M. FISHER

DRAWN BY
 J. VALENZUELA

CHECKED BY
 A. ARMSTRONG

IN CHARGE
 R. COFFIN

DATE
 12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 ALLEN ROAD UNDERPASS
 PLAN AND ELEVATION

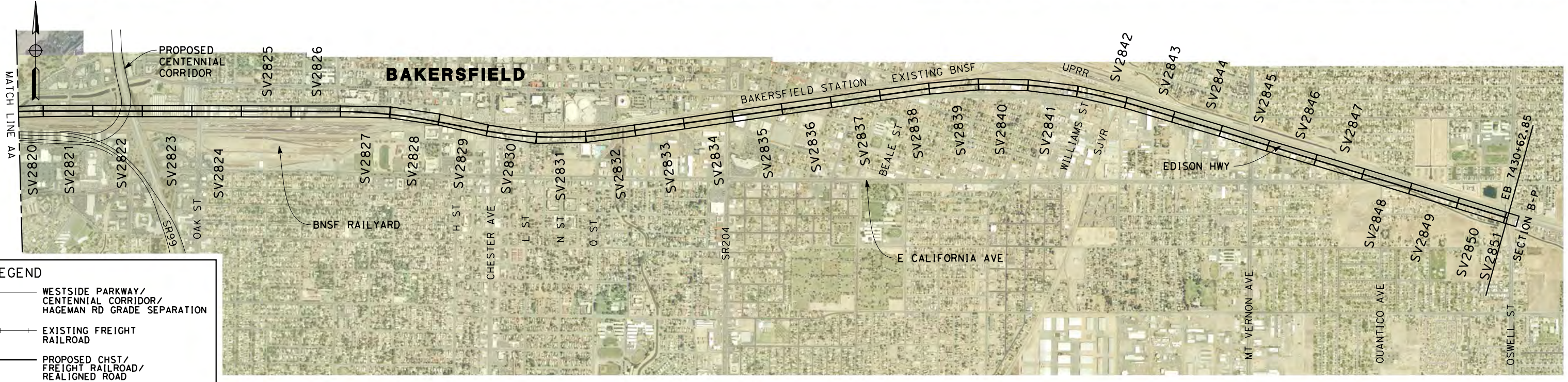
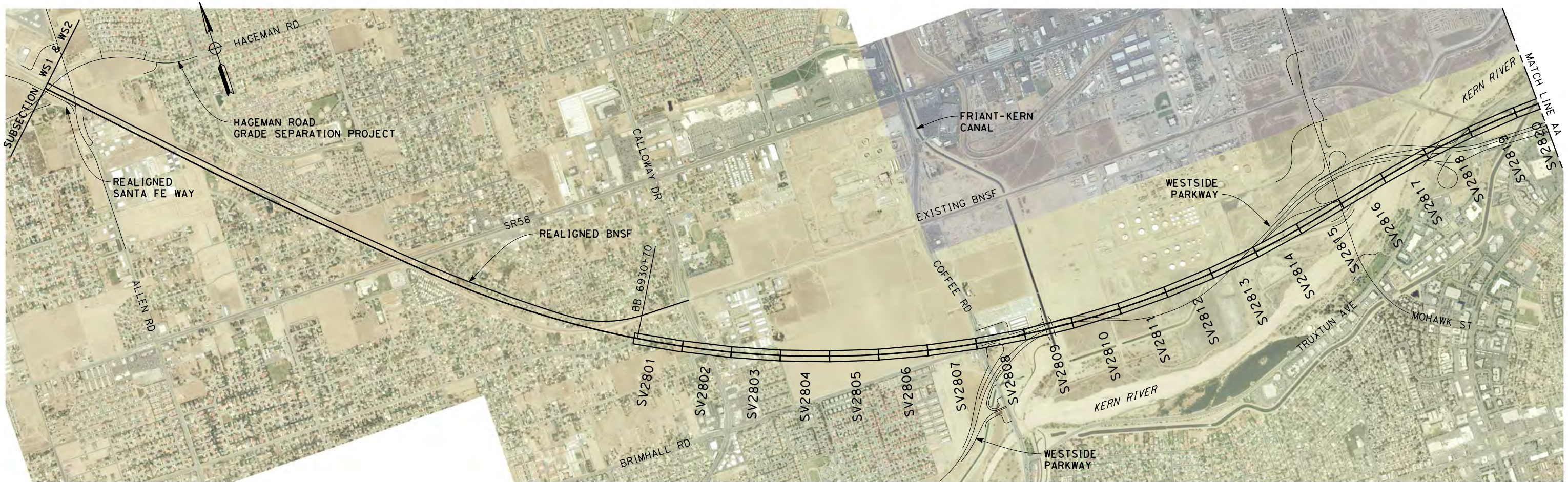
CONTRACT NO.
 HSR 06-0003

DRAWING NO.
 SV2793

SCALE
 AS SHOWN

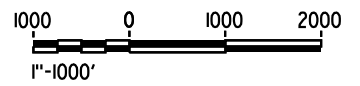
SHEET NO.
 2 OF 2

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LEGEND

- WESTSIDE PARKWAY/
CENTENNIAL CORRIDOR/
HAGEMAN RD GRADE SEPARATION
- EXISTING FREIGHT
RAILROAD
- PROPOSED CHST/
FREIGHT RAILROAD/
REALIGNED ROAD



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
 DRAWN BY
J. VALENSUELA
 CHECKED BY
A. ARMSTRONG
 IN CHARGE
R. COFFIN
 DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 KEY MAP

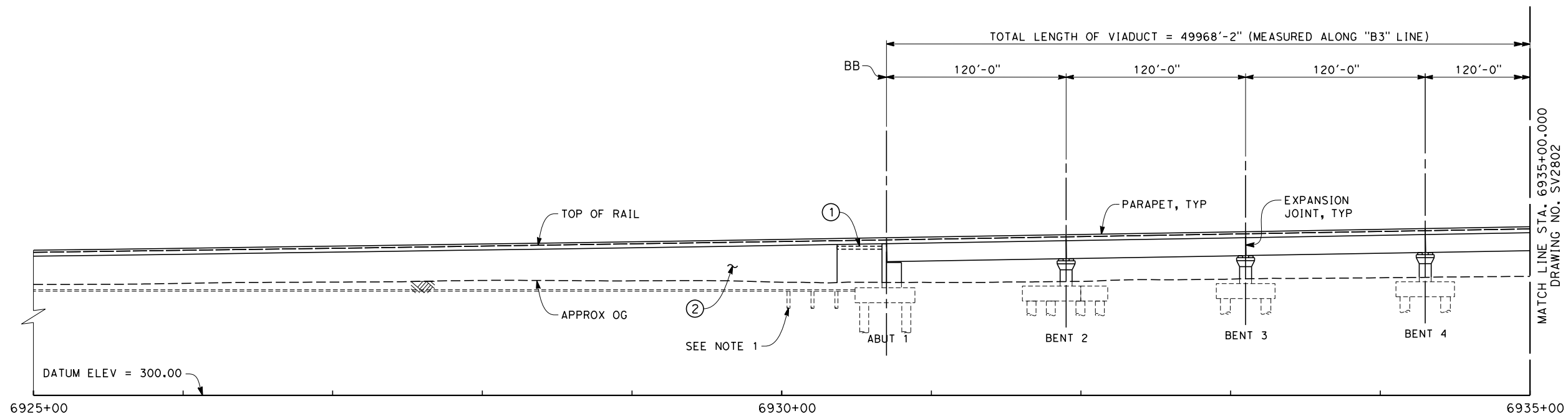
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
SV2800
 SCALE
AS SHOWN
 SHEET NO.
1 OF 57

BVC 6904+47.82
ELEV 380.90

EVC 6932+47.82
ELEV 406.89

2800' VC
R/C = 0.057% /STA

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'

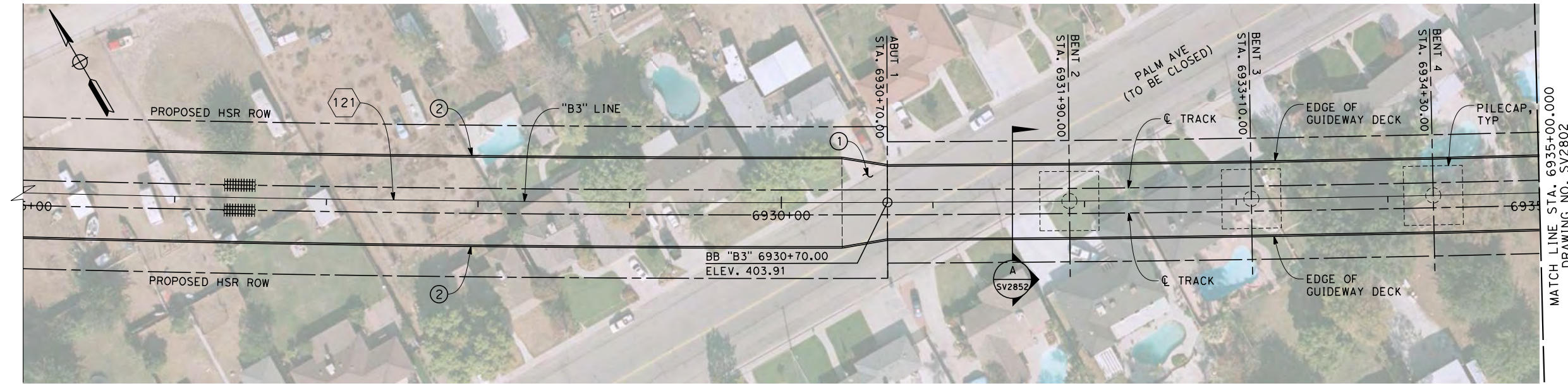
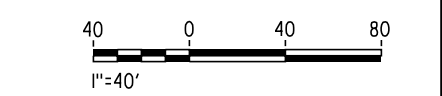
- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①21

R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



PLAN
SCALE 1" = 40'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2801

SCALE
AS SHOWN

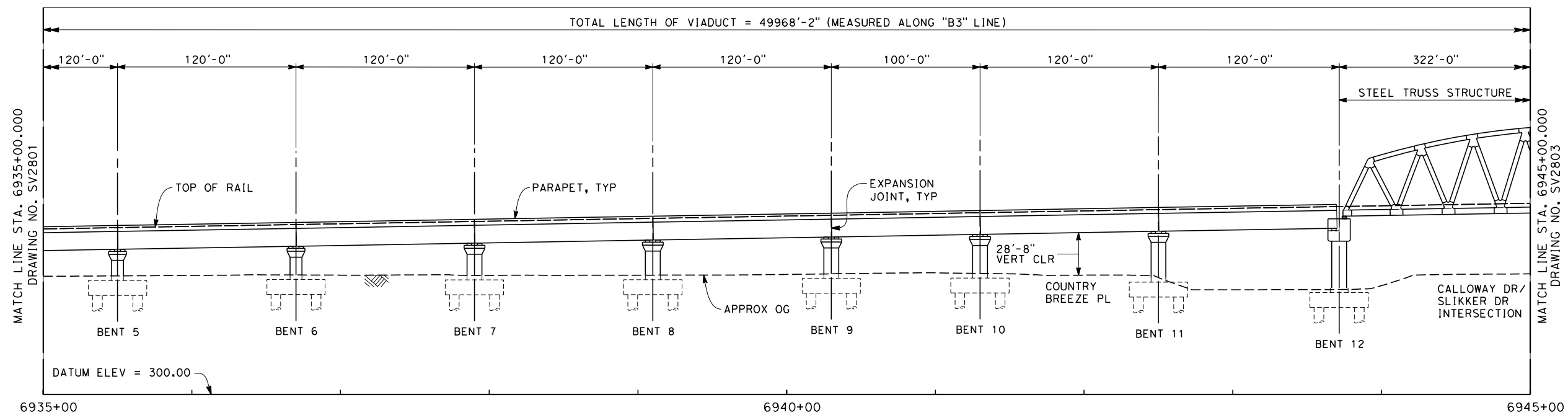
SHEET NO.
2 OF 57

EVC 6932+47.82
ELEV 406.89

BVC 6942+65.23
ELEV 424.47

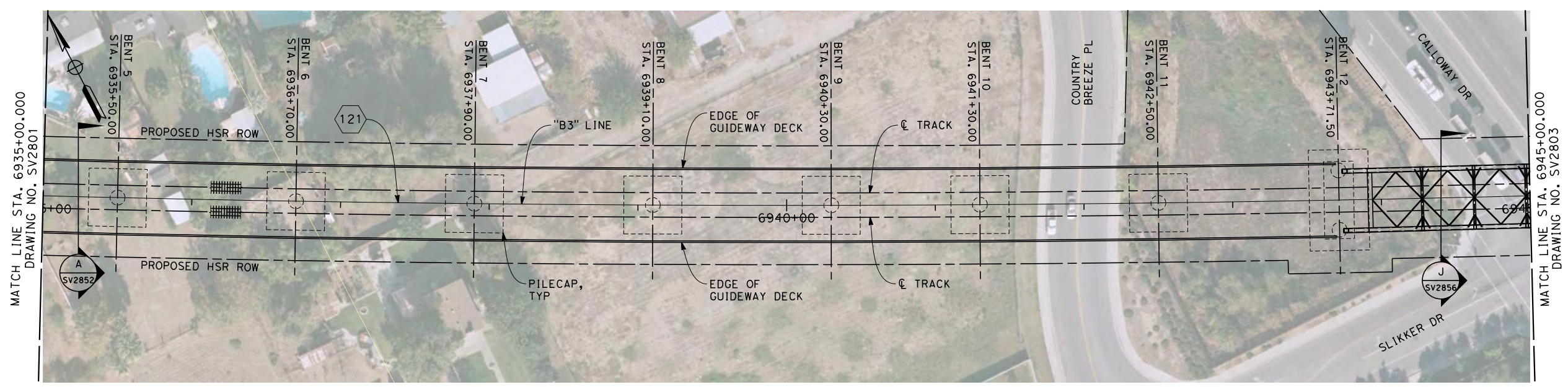
1.728 %

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'

- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



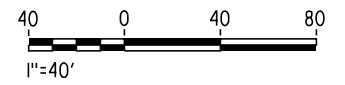
PLAN
SCALE 1" = 40'

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

① 121

R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2802-B3.dgn 12/20/2013 5:37:46 PM frank.palermo

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2802

SCALE
AS SHOWN

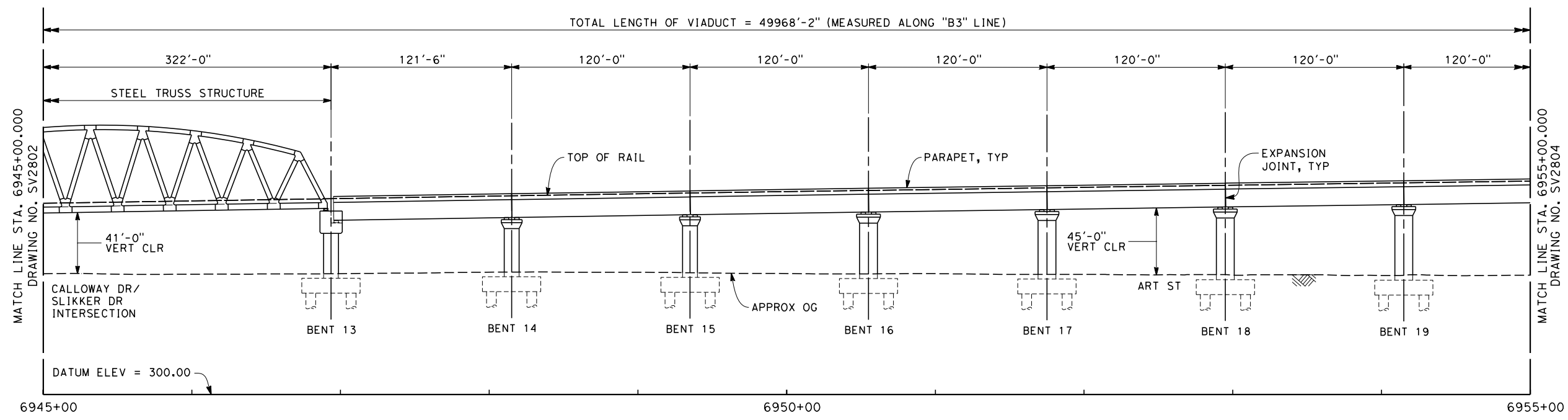
SHEET NO.
3 OF 57

BVC 6942+65.23
ELEV 424.47

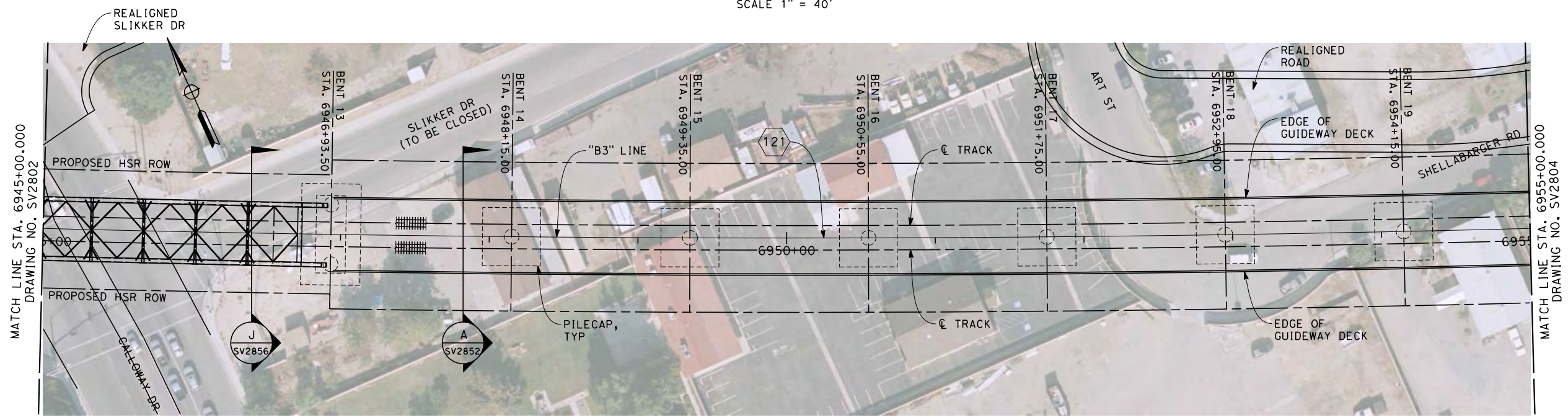
EVC 6992+65.23
ELEV 470.08

5000' VC
R/C = -0.033% /STA

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

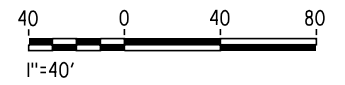
- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①21

R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



12/20/2013 5:38:12 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2803-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2803

SCALE
AS SHOWN

SHEET NO.
4 OF 57

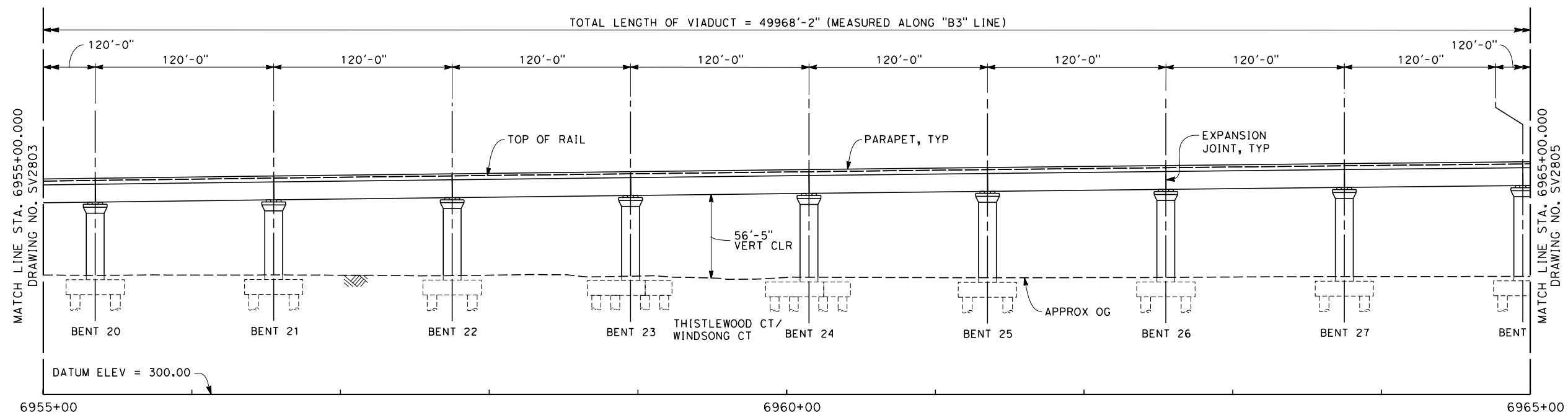
BVC 6942+65.23
ELEV 424.47

EVC 6992+65.23
ELEV 470.08

5000' VC
R/C = -0.033% /STA

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION
SCALE 1" = 40'

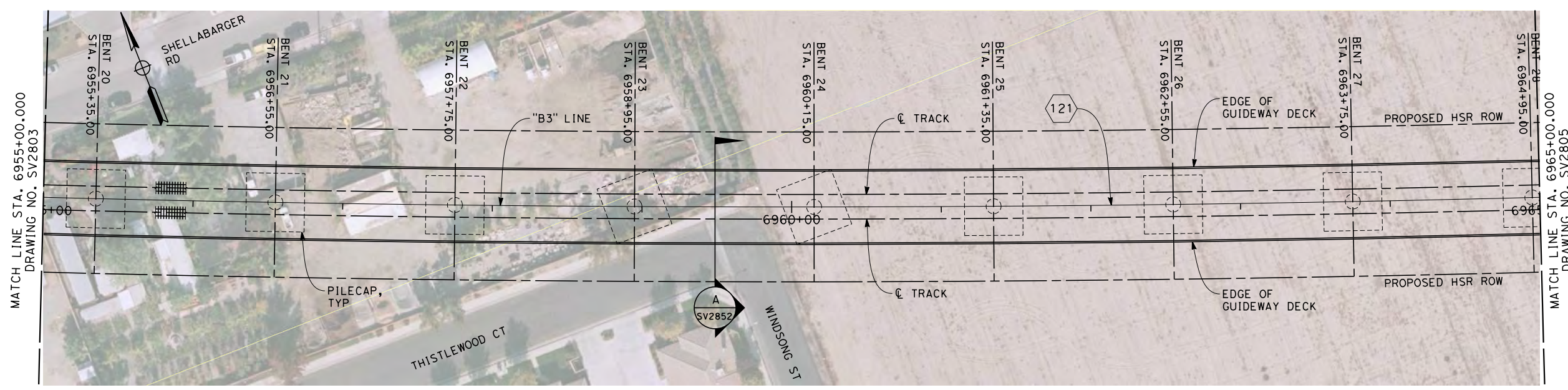
- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

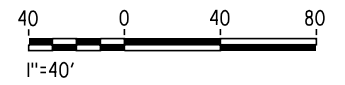
CURVE DATA

①21

R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



PLAN
SCALE 1" = 40'



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2804

SCALE
AS SHOWN

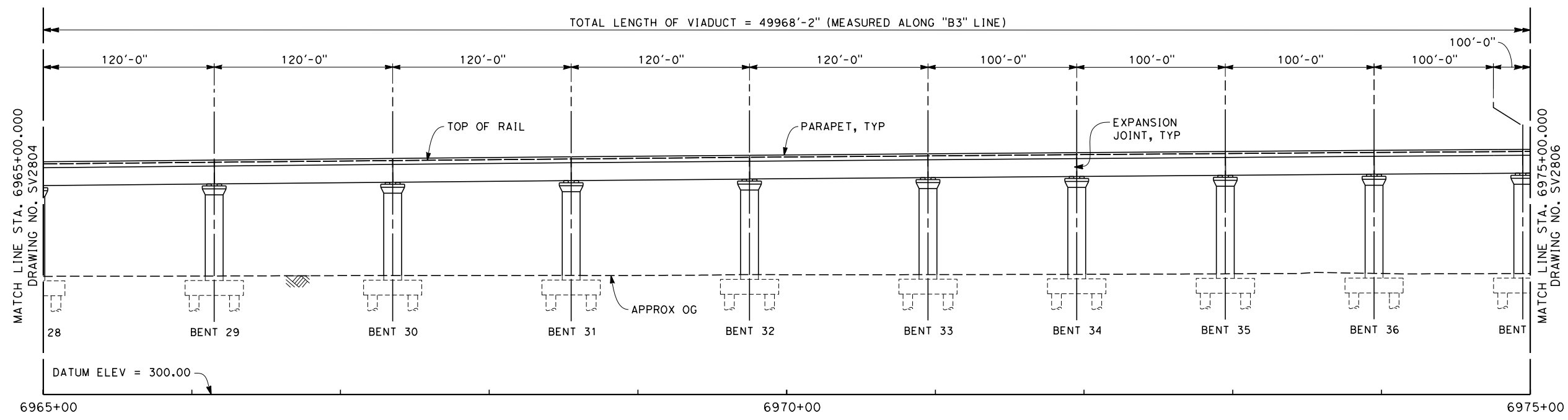
SHEET NO.
5 OF 57

BVC 6942+65.23
ELEV 424.47

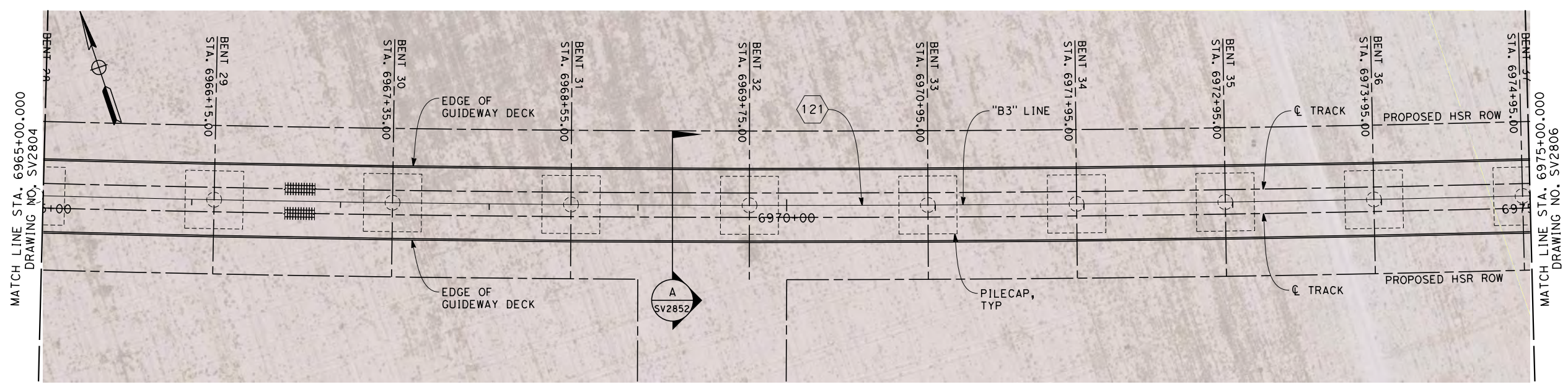
EVC 6992+65.23
ELEV 470.08

5000' VC
R/C = -0.033% /STA

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

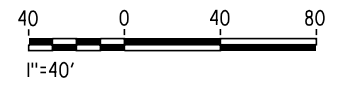
- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
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- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

① 121

R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2805-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2805

SCALE
AS SHOWN

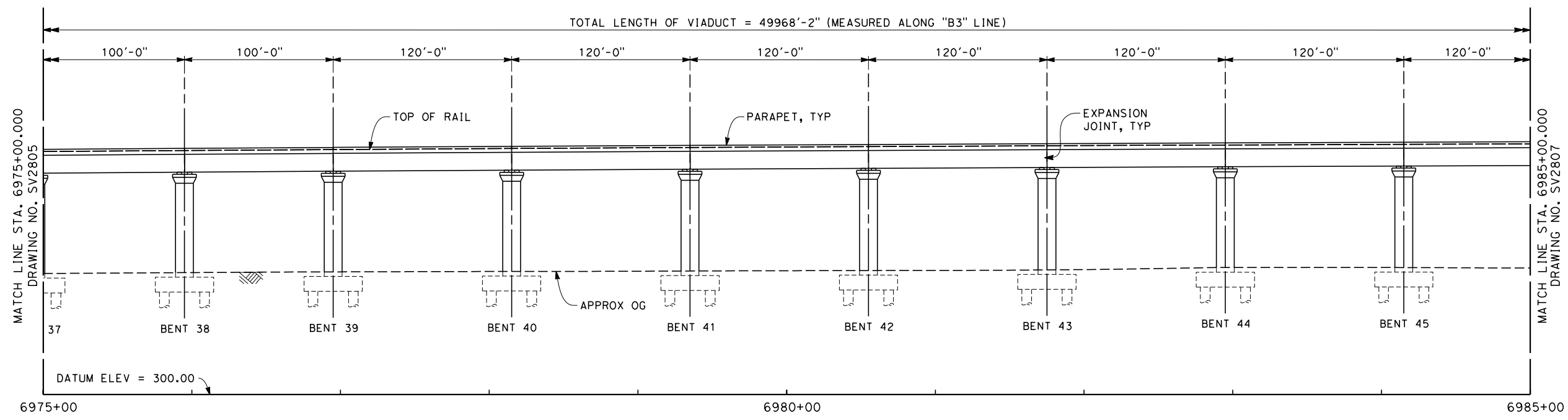
SHEET NO.
6 OF 57

BVC 6942+65.23
ELEV 424.47

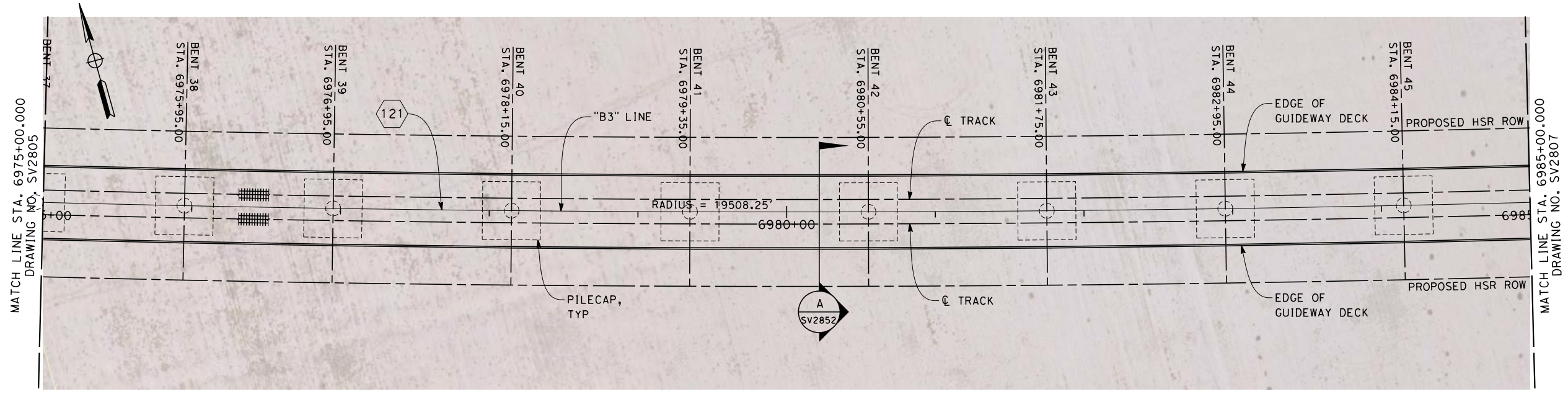
EVC 6992+65.23
ELEV 470.08

5000' VC
R/C = -0.033% /STA

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".
- CURVE DATA**
- ①21
- R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'

12/20/2013 5:39:19 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2806-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2806
SCALE
AS SHOWN
SHEET NO.
7 OF 57

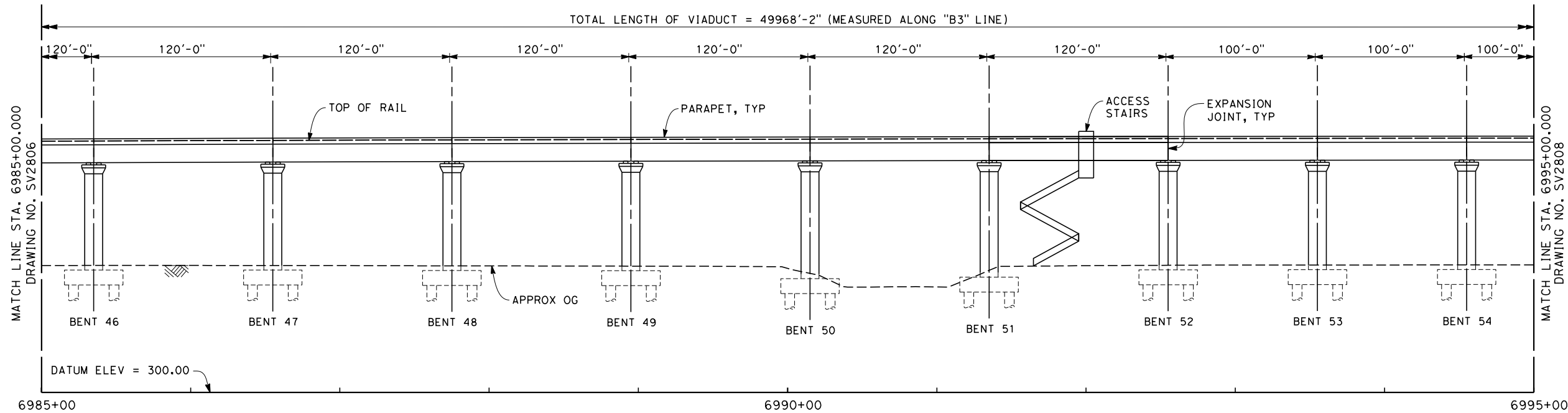
BVC 6942+65.23
ELEV 424.47

EVC 6992+65.23
ELEV 470.08

5000' VC
R/C = -0.033% /STA

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION
SCALE 1" = 40'

NOTES

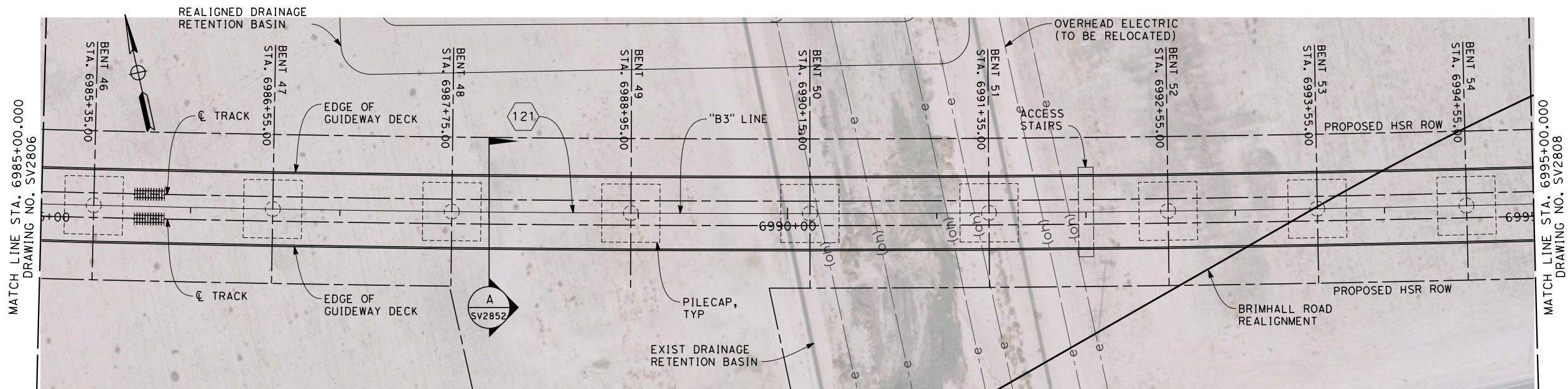
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

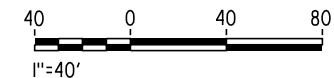
- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①21
R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



PLAN
SCALE 1" = 40'



jojo.valenzuela 12/23/2013 10:49:07 AM c:\pwworking\hmm\external\jojo.valenzuela-arup.com\dms71888\FB-SV-2807-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



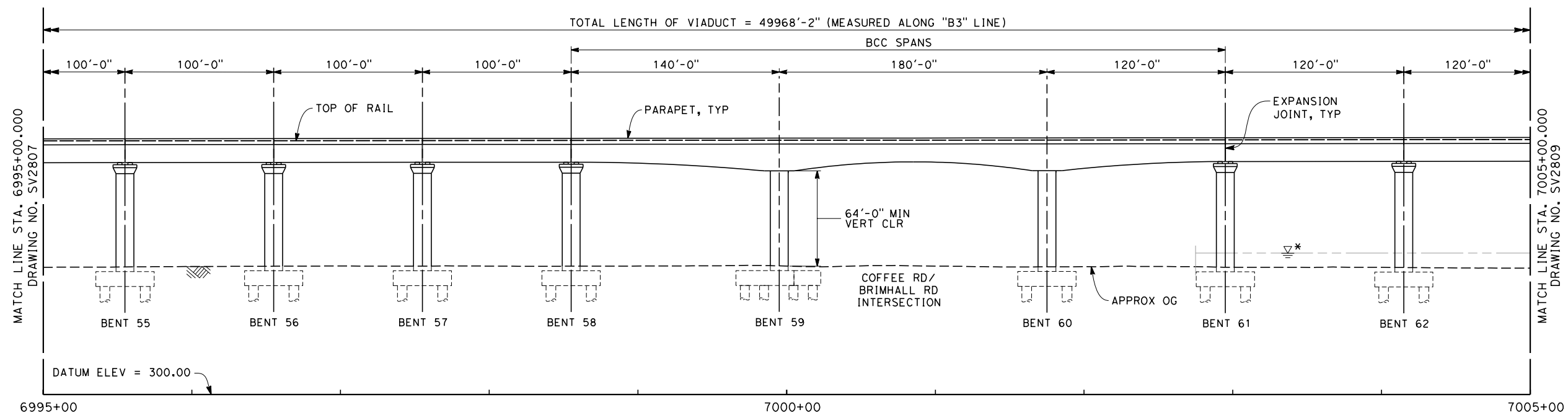
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2807
SCALE
AS SHOWN
SHEET NO.
8 OF 57

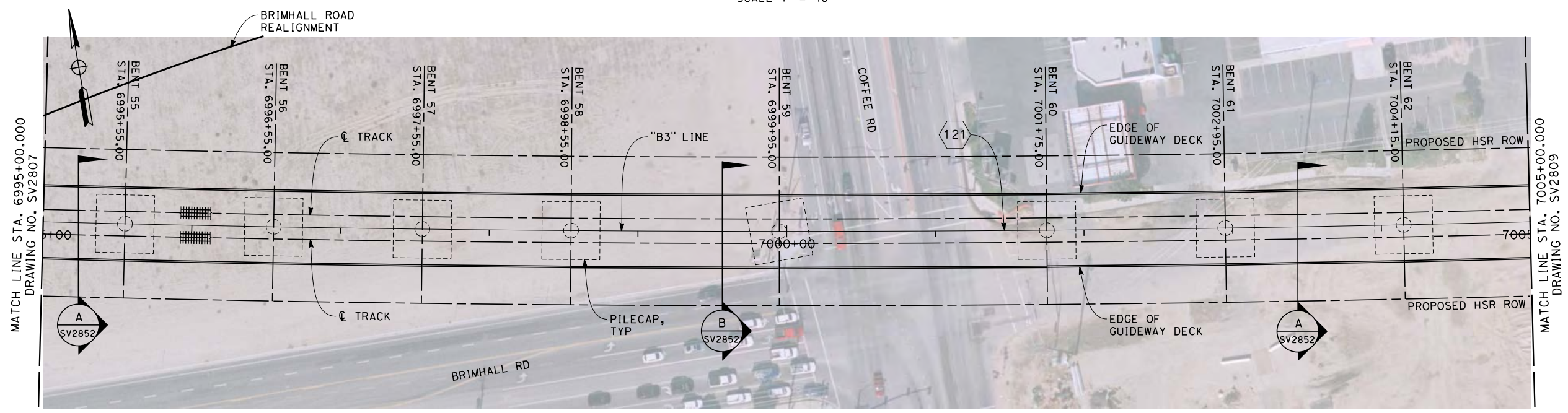
EVC 6992+65.23 ELEV 470.08 BVC 7106+52.16 ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

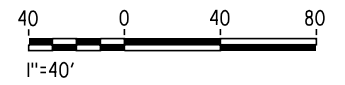
- NOTES**
- NOT ALL PILES SHOWN
 - PILE LENGTH TO BE DETERMINED
 - SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
 - UTILITY LOCATIONS TO BE DETERMINED
 - ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①21

R = 19508.25'
 $\Delta = 50^\circ 11' 03.7''$
 T = 9135.1'
 L = 17086.9'



12/20/2013 5:40:01 PM c:\pwworking\hmm\external\frank.palermo01-ar.com\dms71888\FB-SV-2808-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 PLAN AND ELEVATION

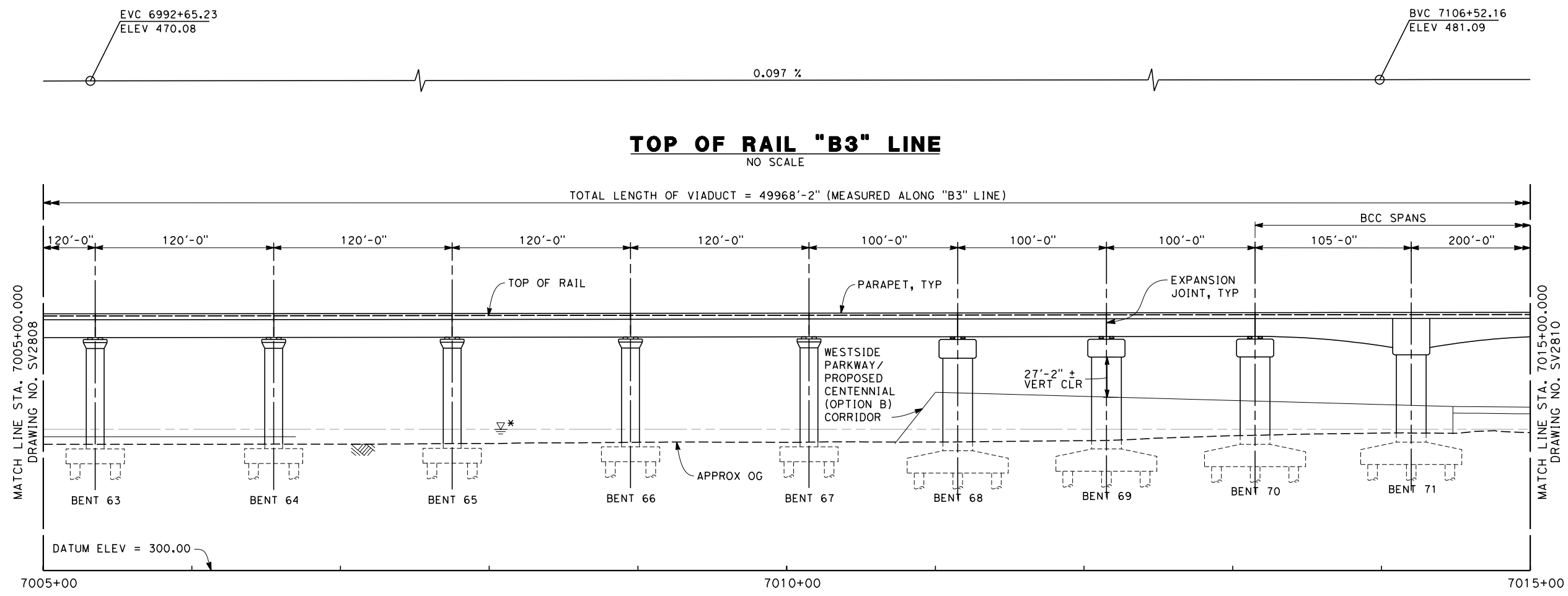
CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2808

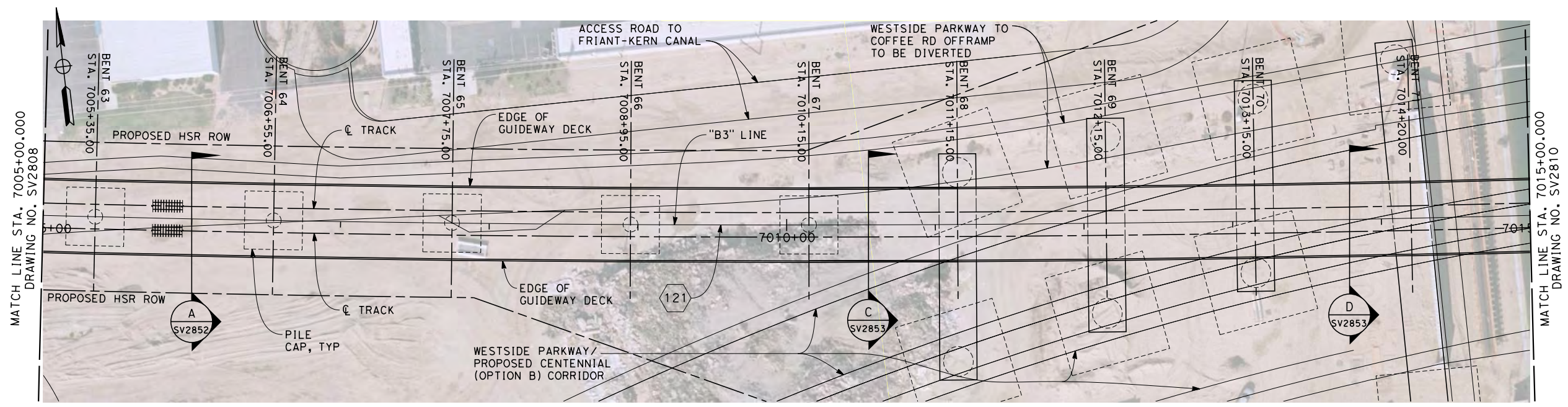
SCALE
AS SHOWN

SHEET NO.
9 OF 58

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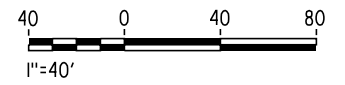
ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

- NOTES**
- NOT ALL PILES SHOWN
 - PILE LENGTH TO BE DETERMINED
 - SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
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- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".
- CURVE DATA**
- 121
- R = 19508.25'
 $\Delta = 50^\circ 11' 03.7''$
 T = 9135.1'
 L = 17086.9'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2809

SCALE
AS SHOWN

SHEET NO.
10 OF 57

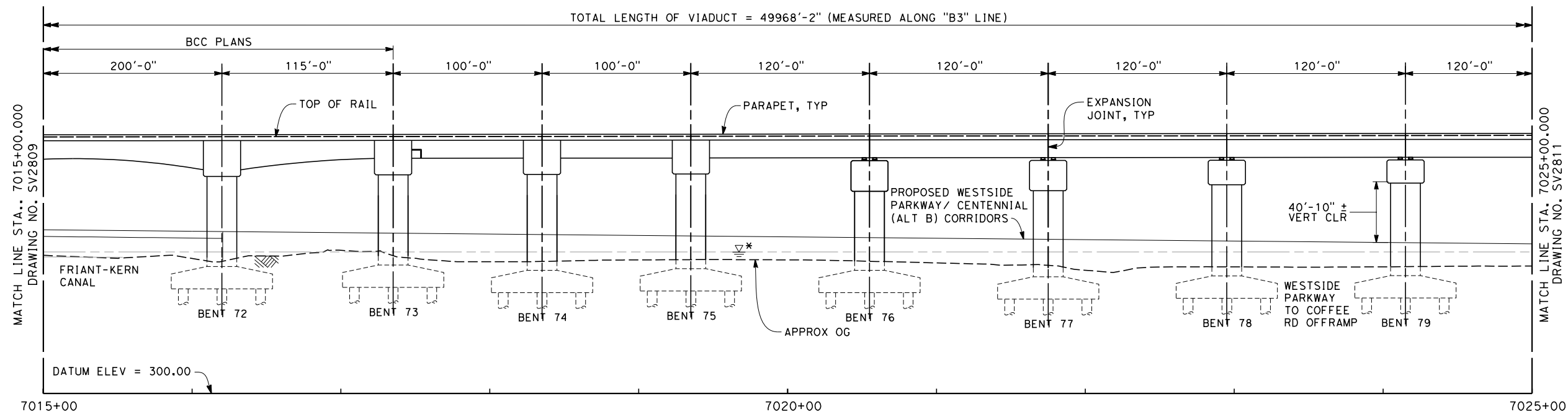
EVC 6992+65.23
ELEV 470.08

BVC 7106+52.16
ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION

SCALE 1" = 40'

NOTES

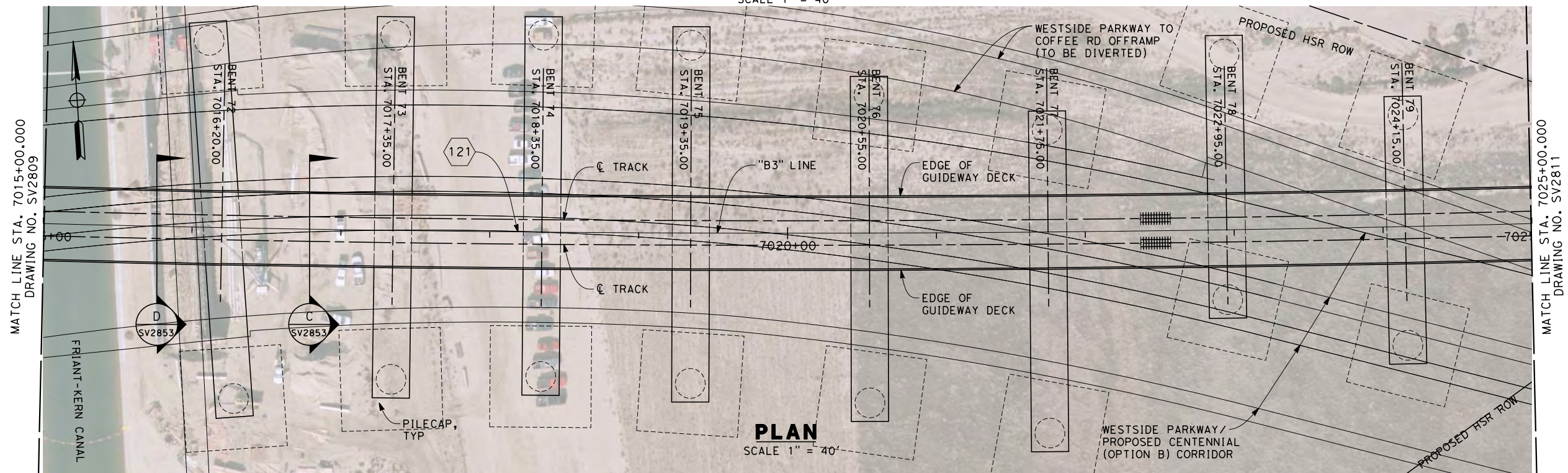
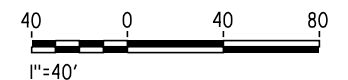
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
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4. UTILITY LOCATIONS TO BE DETERMINED
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LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①21
R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



PLAN

SCALE 1" = 40'

12/20/2013 5:40:55 PM c:\pwworking\hmm\external\frank.palermo01-ar.com\dms71888\FB-SV-2810-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2810
SCALE
AS SHOWN
SHEET NO.
11 OF 57

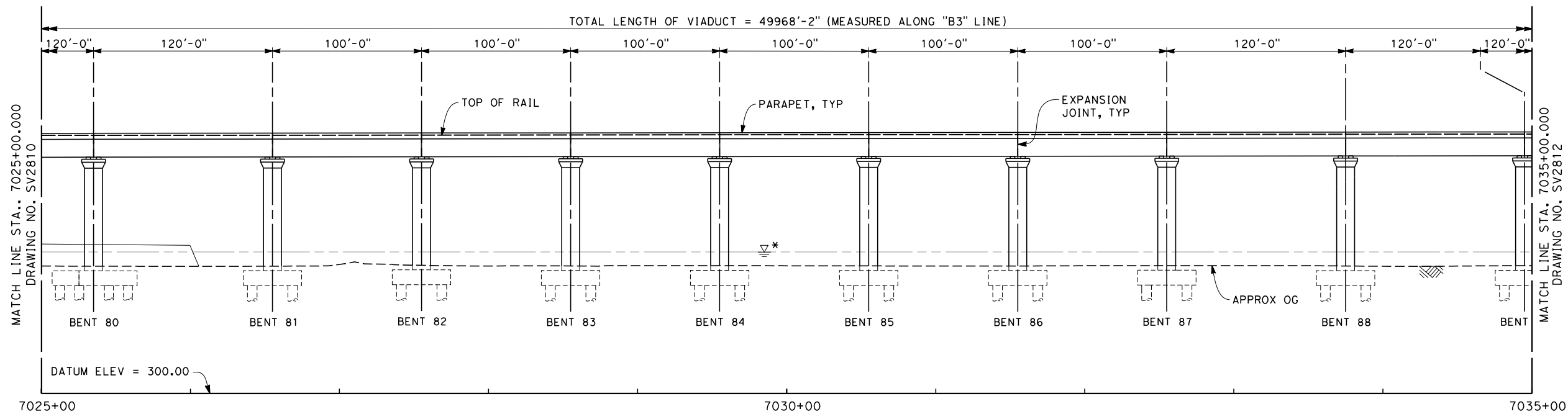
EVC 6992+65.23
ELEV 470.08

BVC 7106+52.16
ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION
SCALE 1" = 40'

NOTES

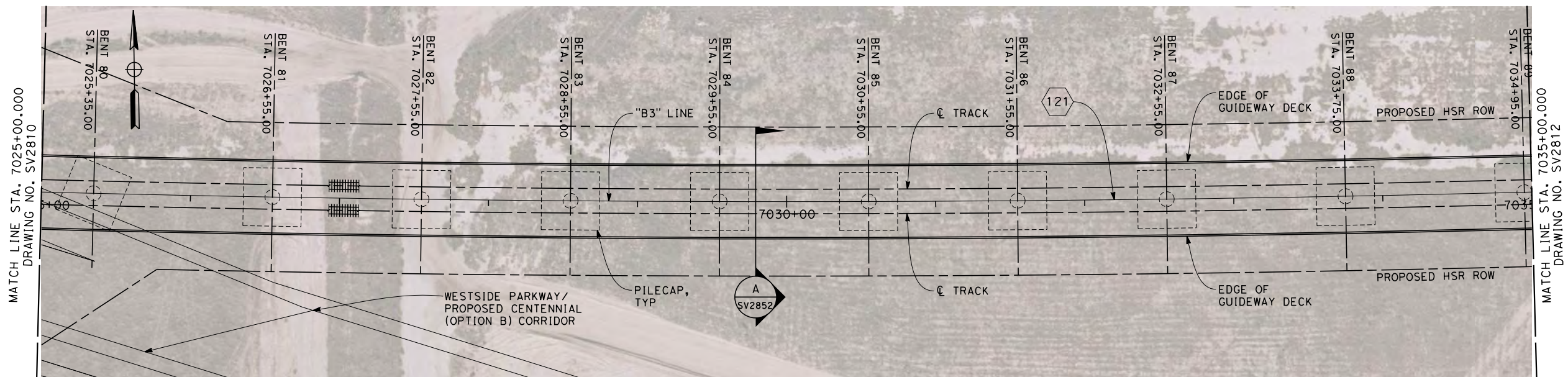
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
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LEGEND:

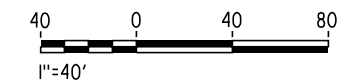
- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①21
R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



PLAN
SCALE 1" = 40'



12/20/2013 5:41:13 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2811-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

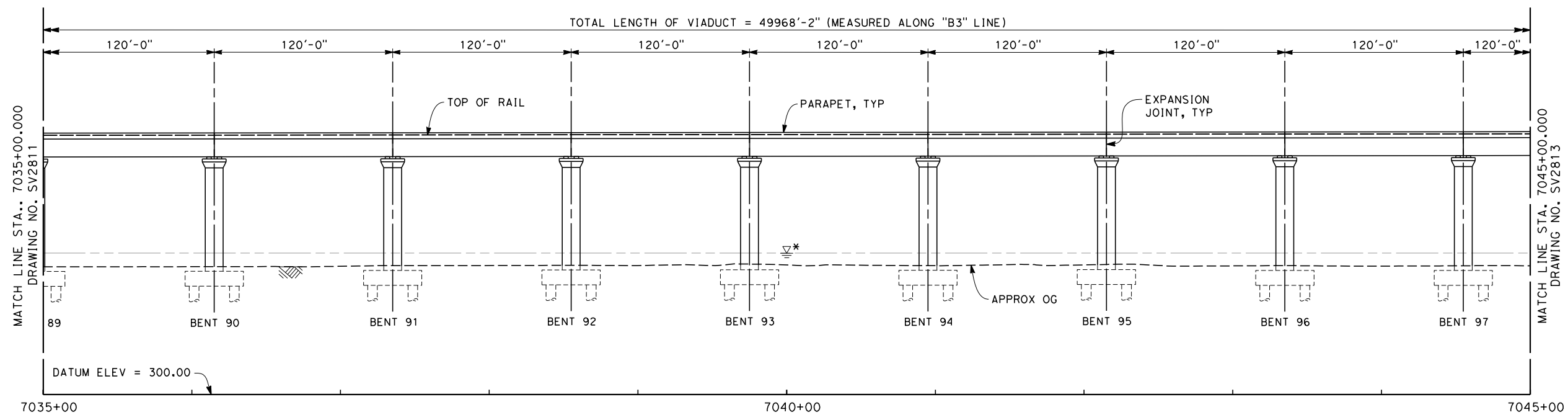
CONTRACT NO. HSR 06-0003
DRAWING NO. SV2811
SCALE AS SHOWN
SHEET NO. 12 OF 57

EVC 6992+65.23
ELEV 470.08

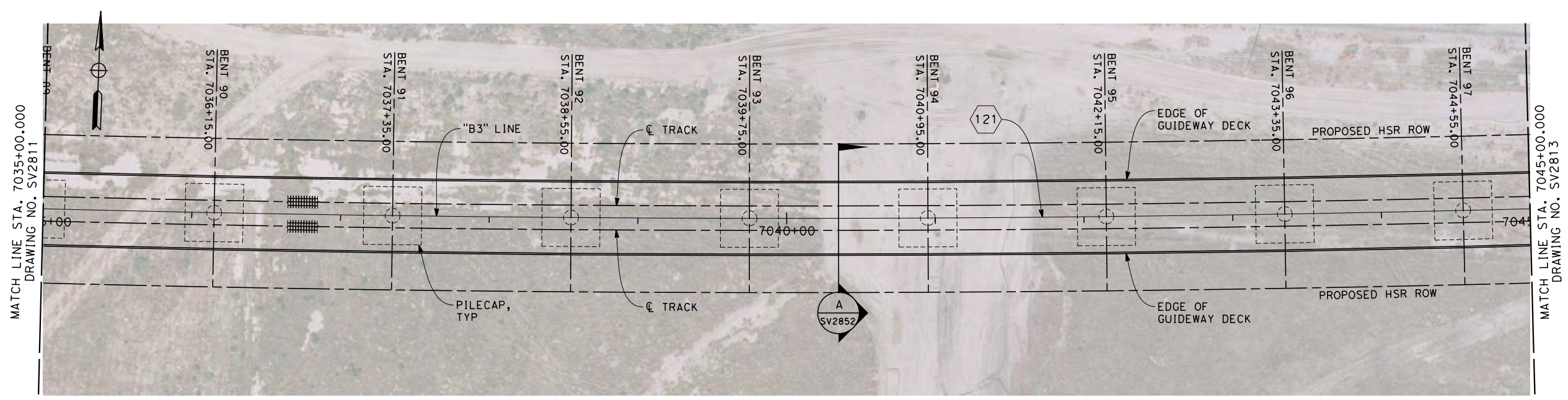
BVC 7106+52.16
ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

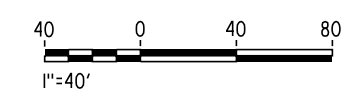
- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①21

R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



12/20/2013 5:41:29 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2812-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2812

SCALE
AS SHOWN

SHEET NO.
13 OF 57

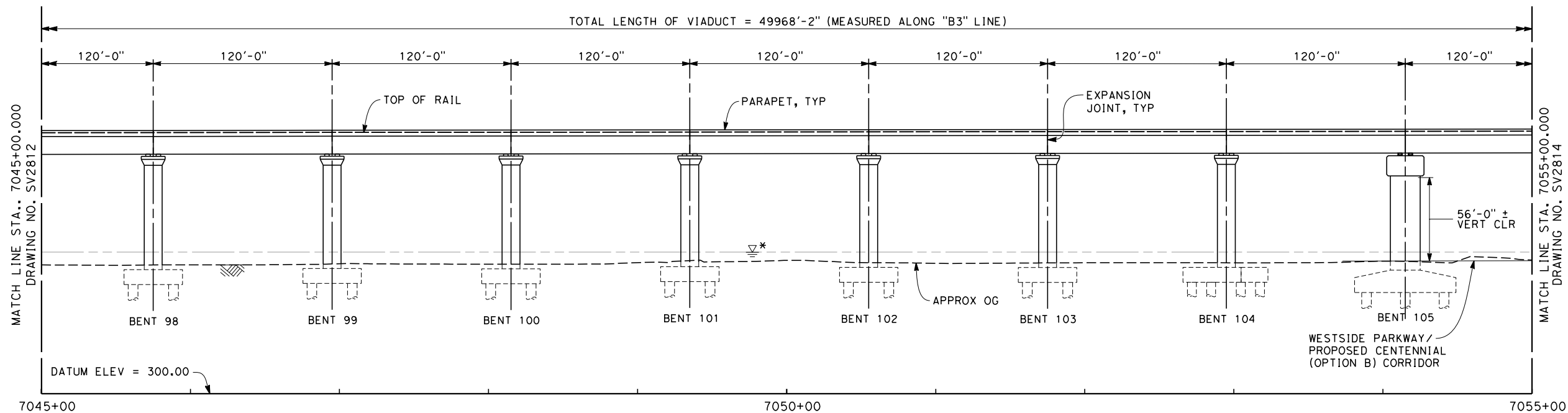
EVC 6992+65.23
ELEV 470.08

BVC 7106+52.16
ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION
SCALE 1" = 40'

NOTES

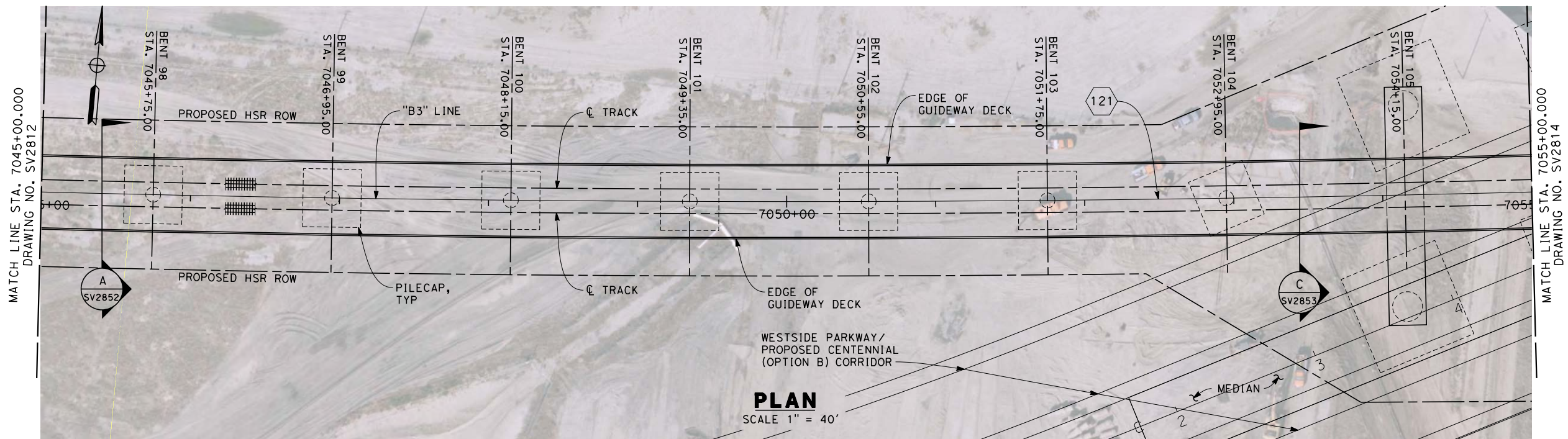
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①
R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



PLAN
SCALE 1" = 40'



jojo.valenzuela 12/23/2013 11:14:58 AM c:\pwworking\hmm\external\jojo.valenzuela-arup.com\dms71888\FB-SV-2813-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

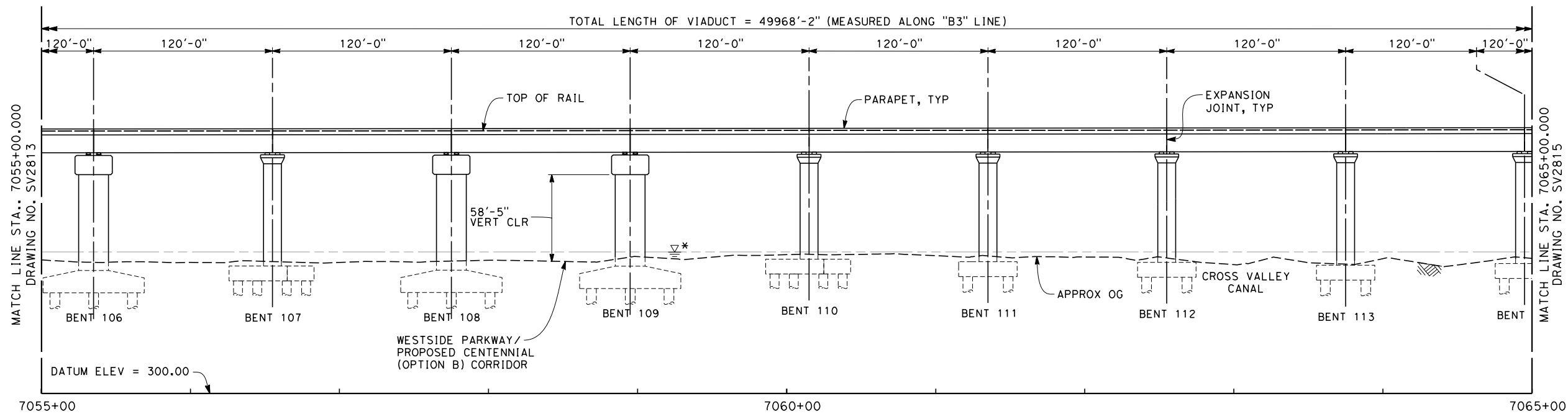
CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2813
SCALE
AS SHOWN
SHEET NO.
14 OF 57

EVC 6992+65.23
ELEV 470.08

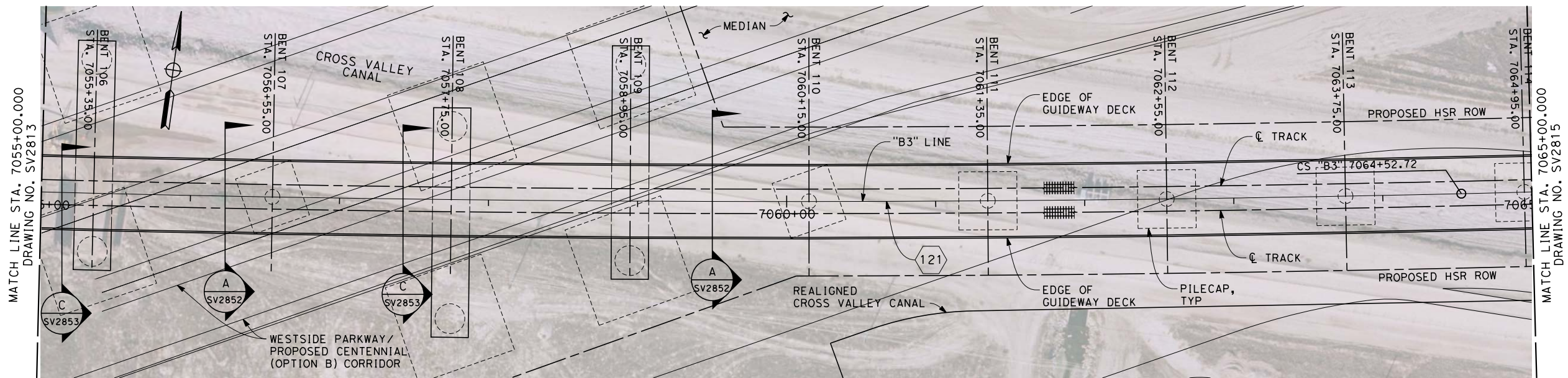
BVC 7106+52.16
ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES

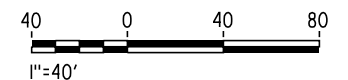
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①21
R = 19508.25'
Δ = 50° 11' 03.7"
T = 9135.1'
L = 17086.9'



c:\pwworking\hmm\external\jojo.valenzuela-arup.com\dms71888\FB-SV-2814-B3.dgn 12/28/2013 1:37:03 PM jojo.valenzuela

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2814
SCALE
AS SHOWN
SHEET NO.
15 OF 57

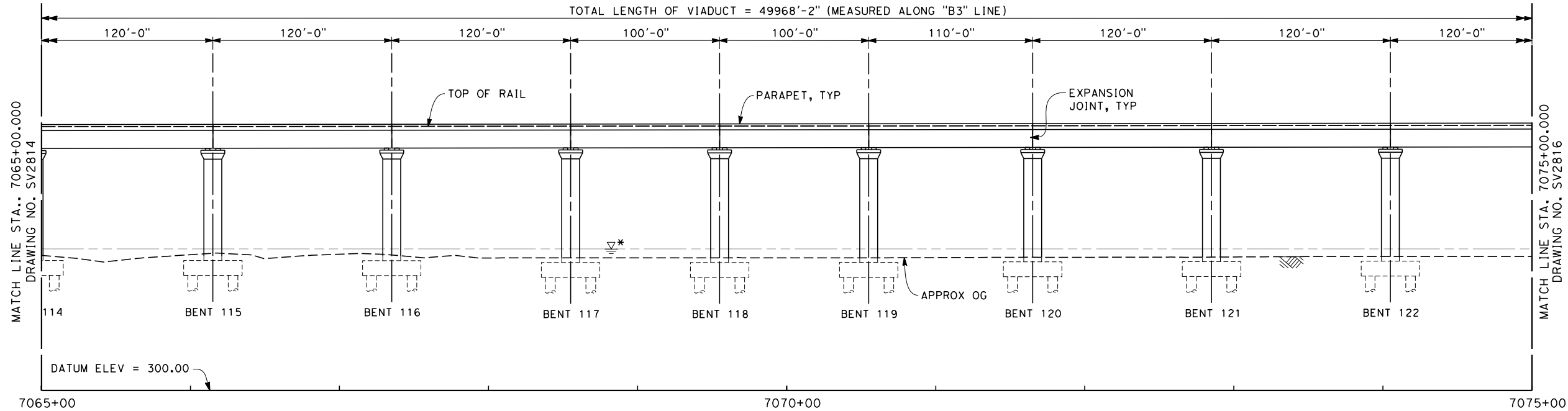
EVC 6992+65.23
ELEV 470.08

BVC 7106+52.16
ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



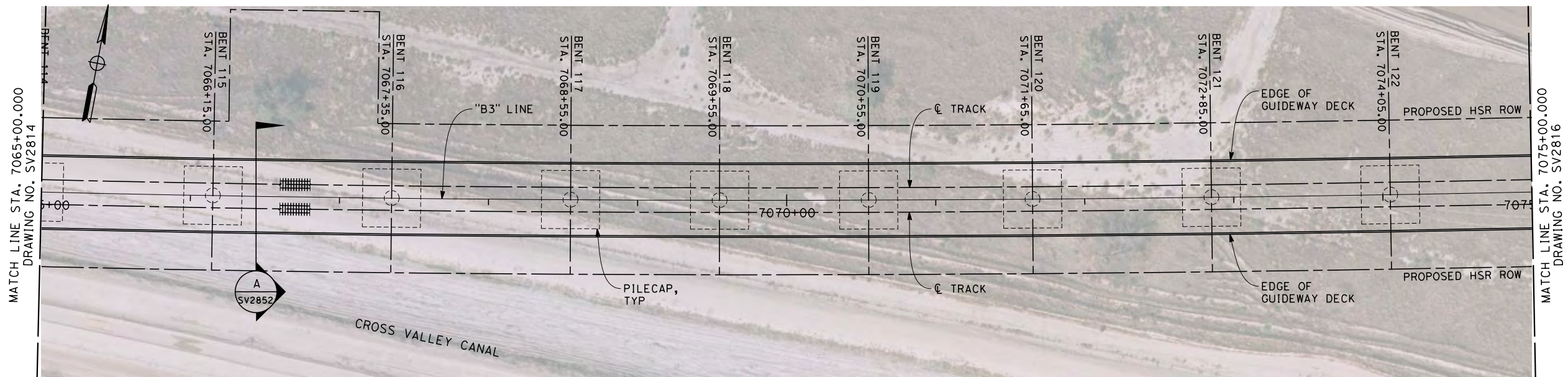
ELEVATION
SCALE 1" = 40'

NOTES

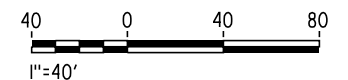
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



PLAN
SCALE 1" = 40'



12/20/2013 5:42:39 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2815-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

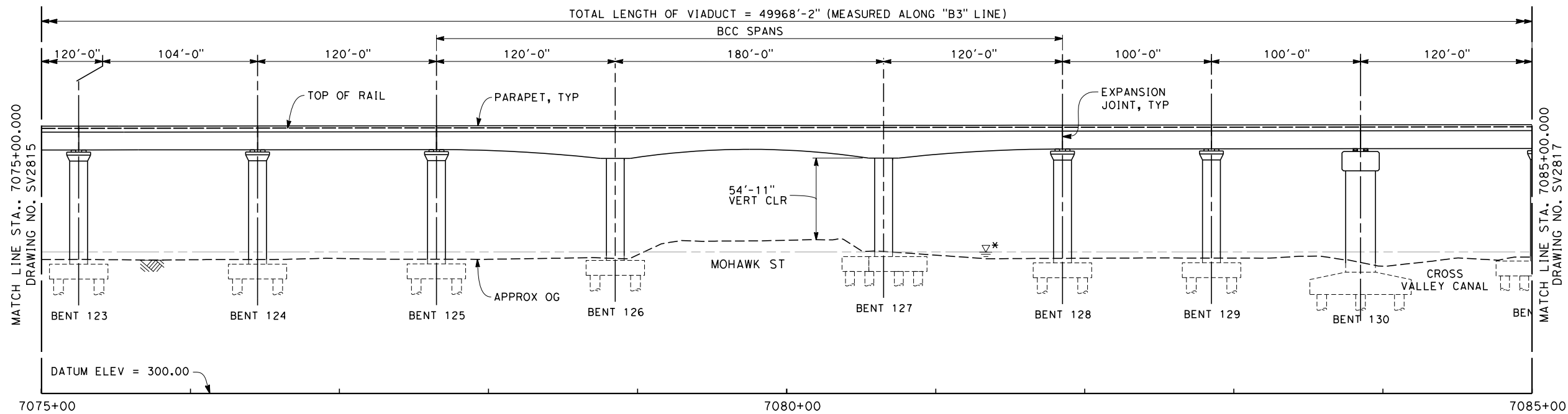
CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2815
SCALE
AS SHOWN
SHEET NO.
16 OF 57

EVC 6992+65.23
ELEV 470.08

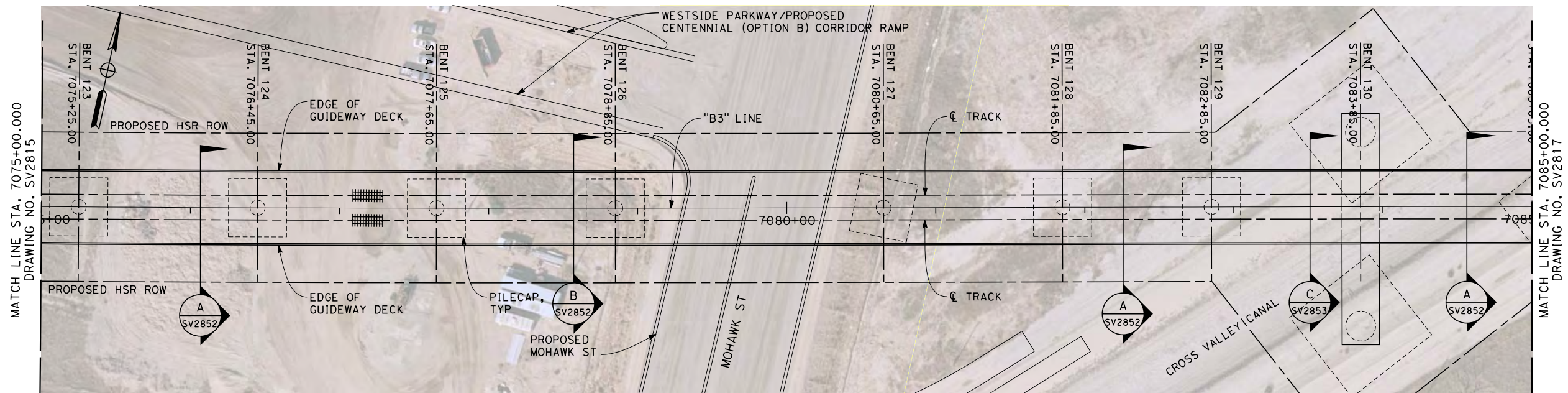
BVC 7106+52.16
ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
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LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

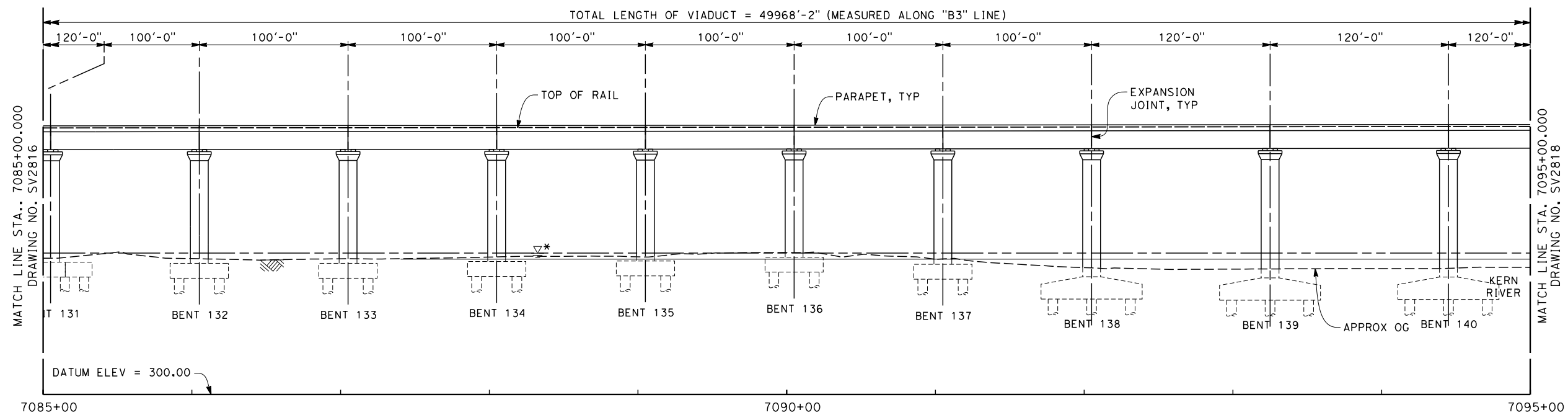
CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2816
SCALE
AS SHOWN
SHEET NO.
17 OF 57

EVC 6992+65.23
ELEV 470.08

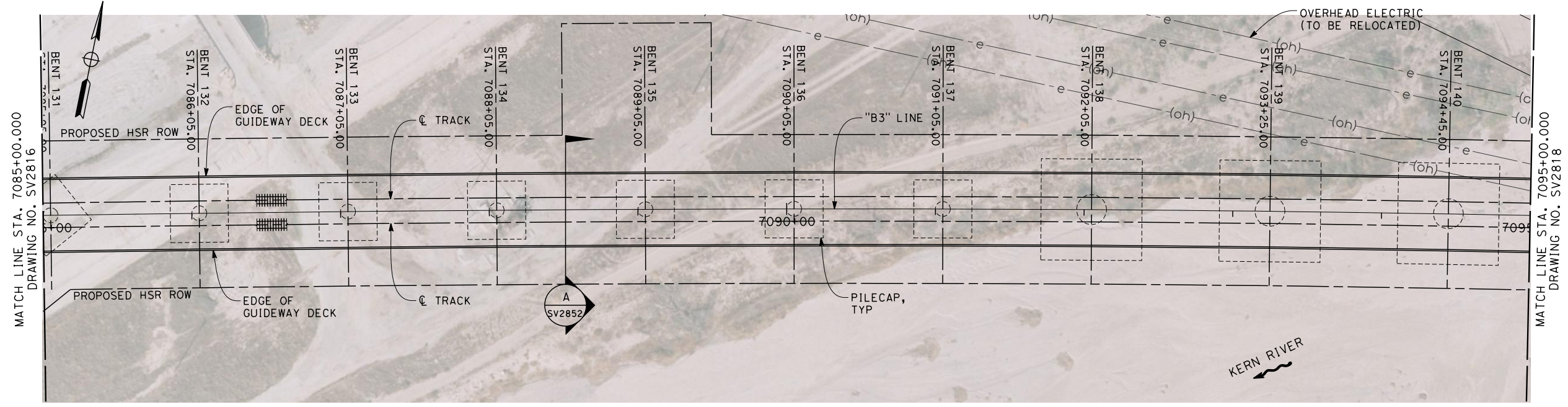
BVC 7106+52.16
ELEV 481.09

0.097 %

TOP OF RAIL "B3" LINE
NO SCALE



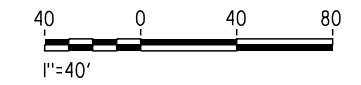
ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
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- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. ARMSTRONG

DRAWN BY
D. ORIZA

CHECKED BY
M. FISHER

IN CHARGE
R. COFFIN

DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

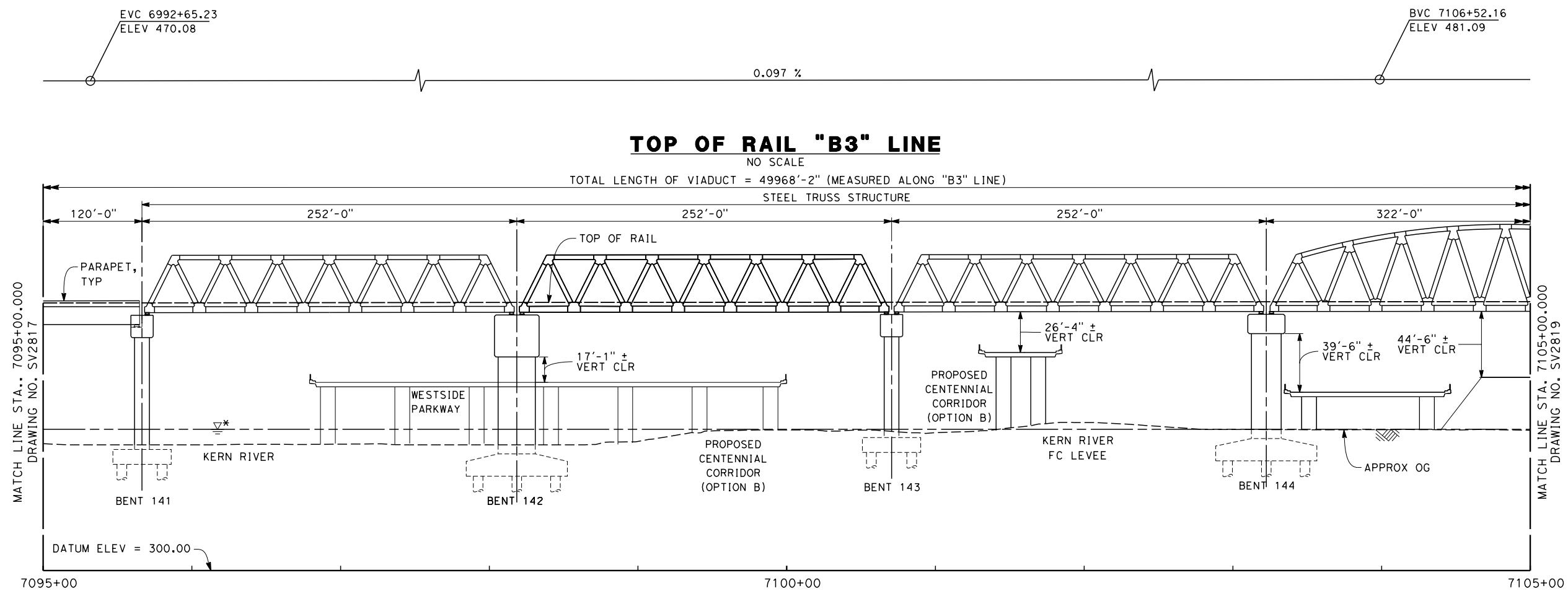
CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2817

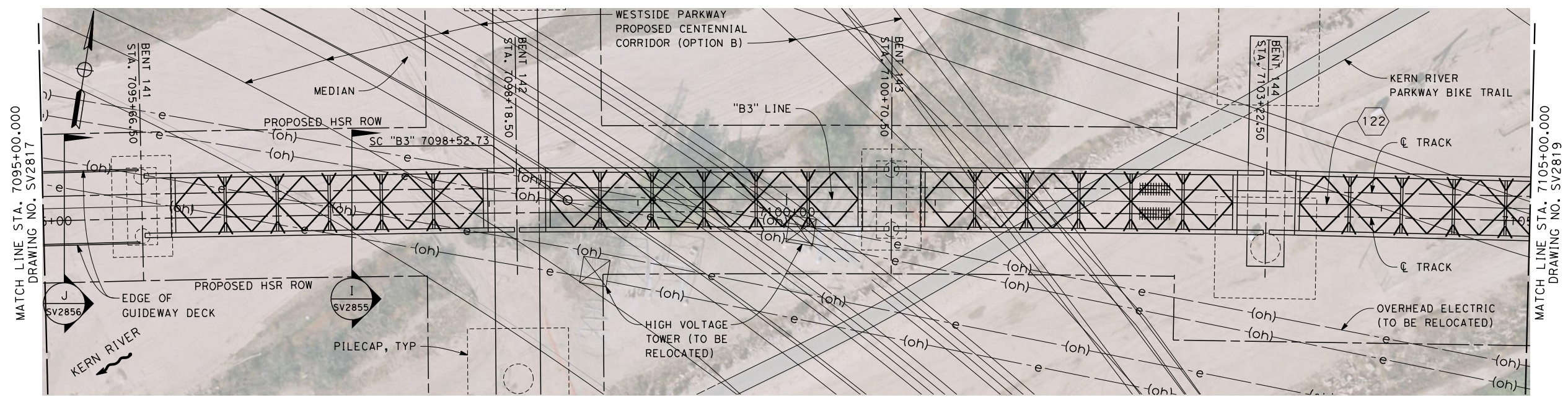
SCALE
AS SHOWN

SHEET NO.
18 OF 57

- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - IN-SITU, SLID OR LAUNCHED
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ELEVATION
SCALE 1" = 40'



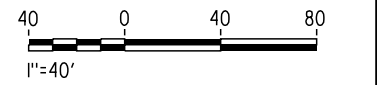
PLAN
SCALE 1" = 40'

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

122

R = 19680.00'
Δ = 06° 54' 55.9"
T = 1189.1'
L = 2375.3'



3/14/2014 4:49:38 PM c:\pwworking\hmm\external\eron.sudhausen-arup.com\dms71888\FB-SV-2818-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. ARMSTRONG
DRAWN BY
D. ORIZA
CHECKED BY
M. FISHER
IN CHARGE
R. COFFIN
DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2818
SCALE
AS SHOWN
SHEET NO.
19 OF 57

BVC 7106+52.16
ELEV 481.09

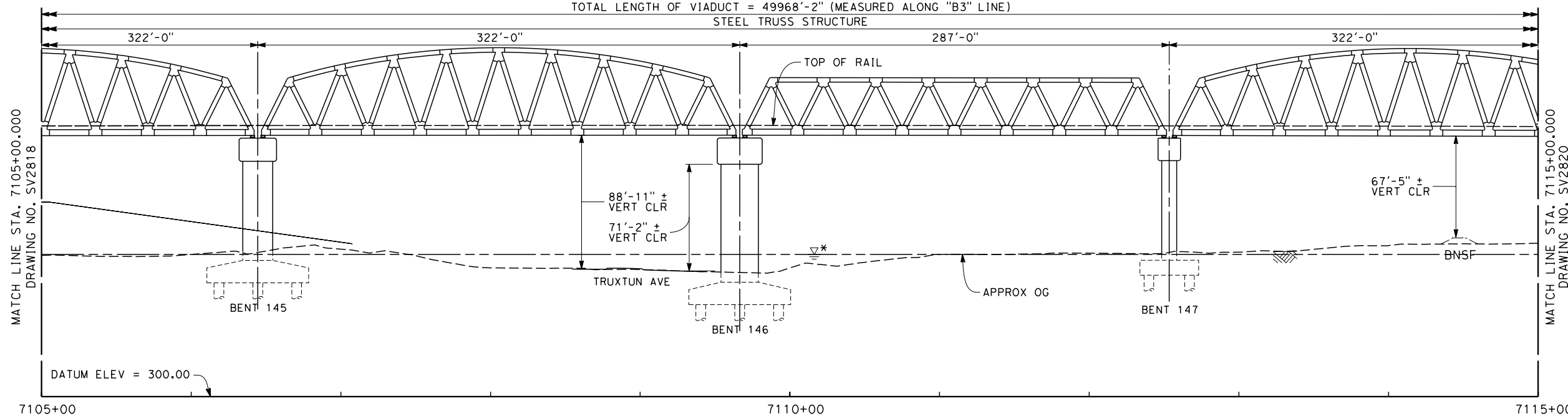
EVC 7114+32.16
ELEV 480.65

780' VC
R/C = -0.039% /STA

TOP OF RAIL "B3" LINE

NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)
STEEL TRUSS STRUCTURE



ELEVATION

SCALE 1" = 40'

NOTES

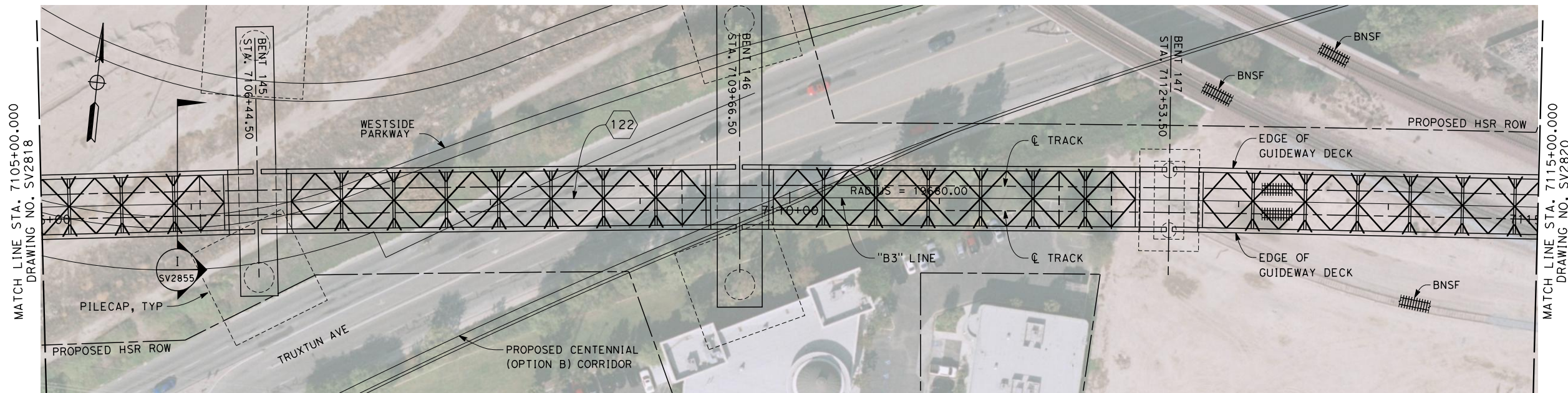
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - IN-SITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
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5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

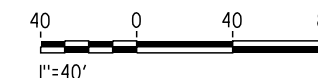
CURVE DATA

① 122
R = 19680.00'
Δ = 06° 54' 55.9"
T = 1189.1'
L = 2375.3'



PLAN

SCALE 1" = 40'



3/14/2014 4:04:56 PM c:\pwworking\hmm\external\eron.sudhausen-arup.com\dms11888\FB-SV-2819-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. ARMSTRONG
DRAWN BY
D. ORIZA
CHECKED BY
M. FISHER
IN CHARGE
R. COFFIN
DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

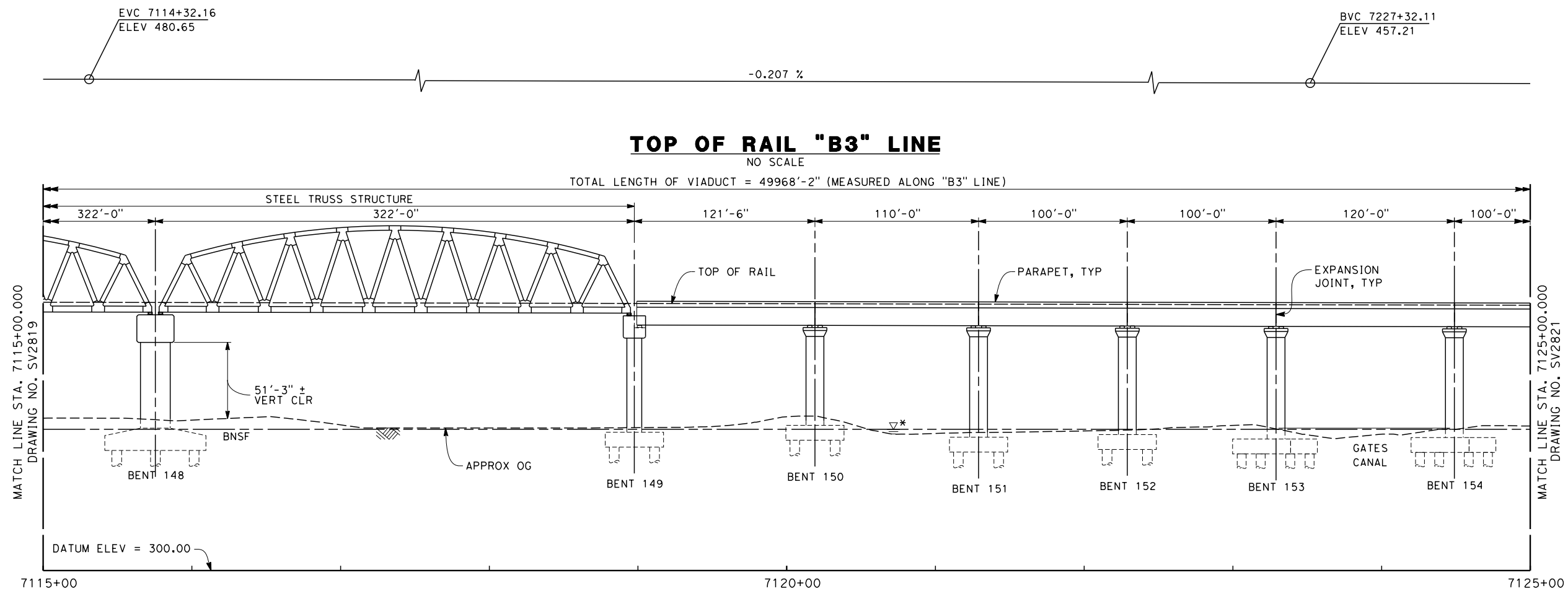
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CONSTRUCTION**



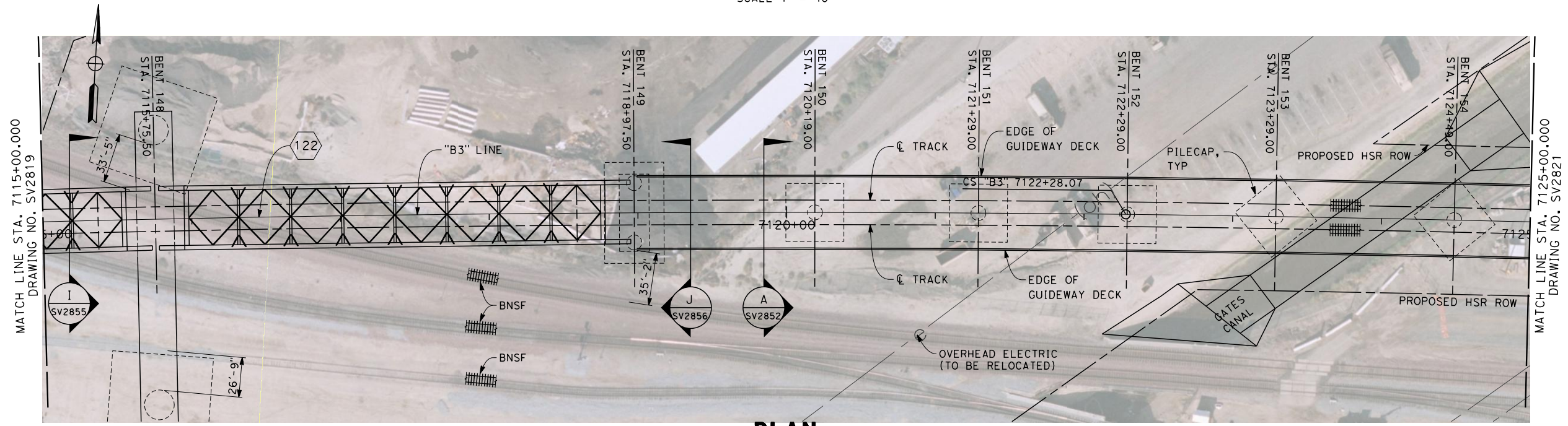
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2819
SCALE
AS SHOWN
SHEET NO.
20 OF 57

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ELEVATION
SCALE 1" = 40'

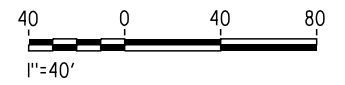


- NOTES**
- NOT ALL PILES SHOWN
 - PILE LENGTH TO BE DETERMINED
 - SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - IN-SITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
 - UTILITY LOCATIONS TO BE DETERMINED
 - ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

122
 R = 19680.00'
 $\Delta = 06^\circ 54' 55.9"$
 T = 1189.1'
 L = 2375.3'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. ARMSTRONG
 DRAWN BY
D. ORIZA
 CHECKED BY
M. FISHER
 IN CHARGE
R. COFFIN
 DATE
03/19/14

**RECORD SET 15%
 DESIGN SUBMISSION**

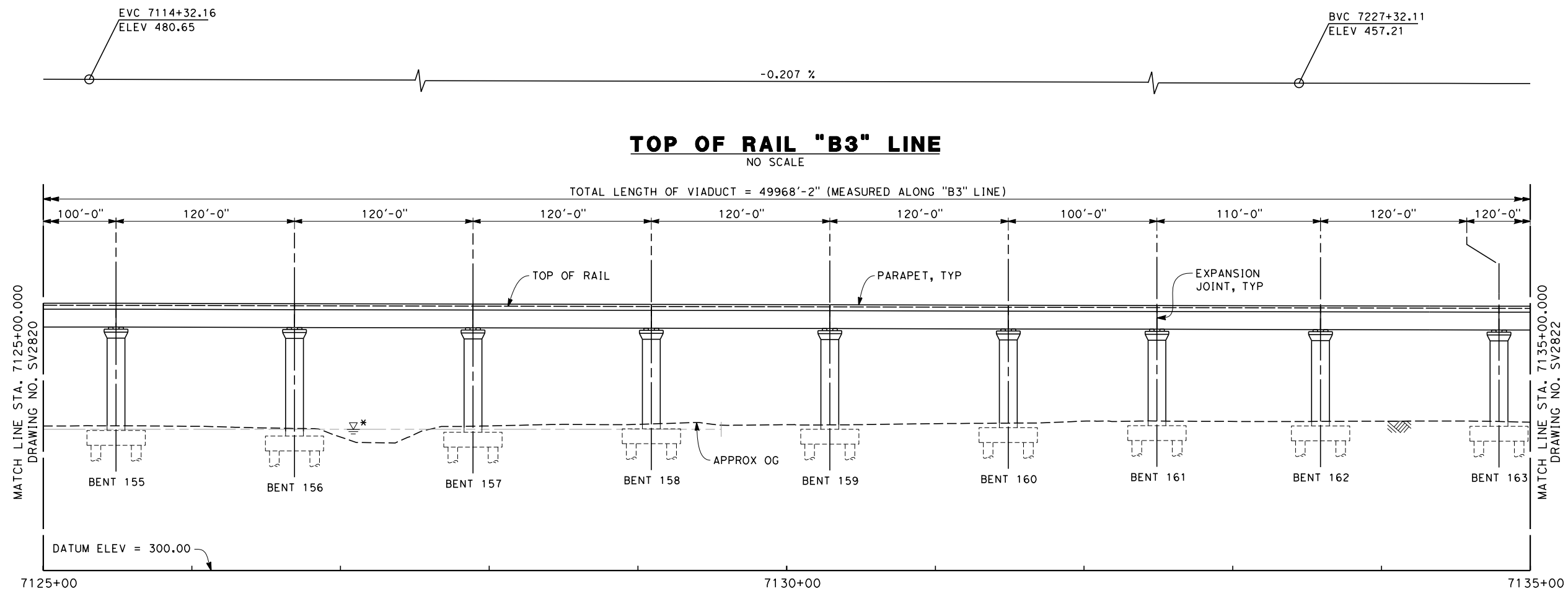
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 CONSTRUCTION**



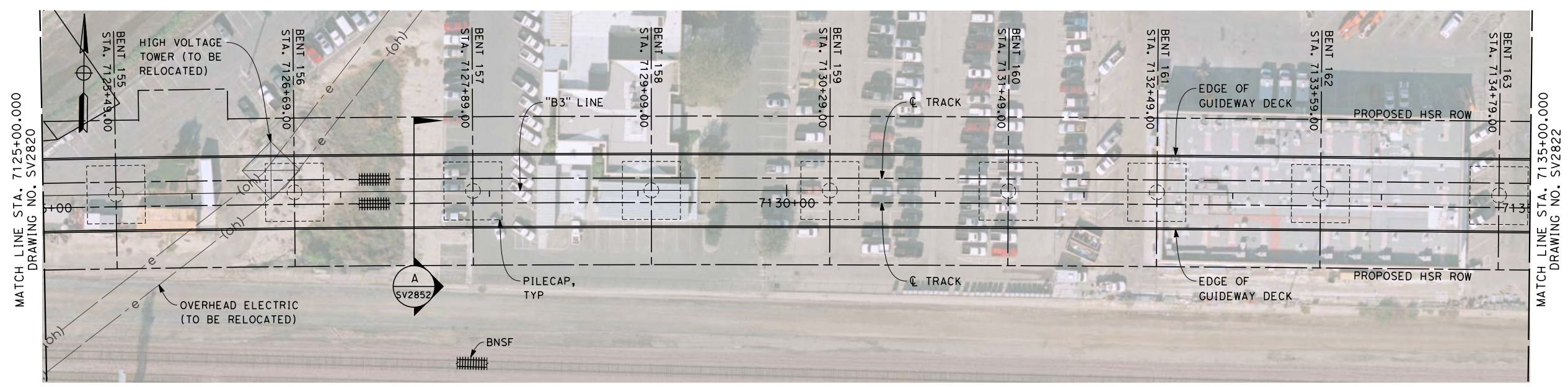
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 PLAN AND ELEVATION

CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 SV2820
 SCALE
 AS SHOWN
 SHEET NO.
 21 OF 57

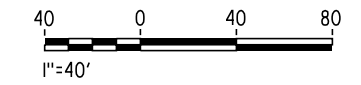
- NOTES**
1. NOT ALL PILES SHOWN
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 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
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ELEVATION
SCALE 1" = 40'



- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. ARMSTRONG

DRAWN BY
D. ORIZA

CHECKED BY
M. FISHER

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

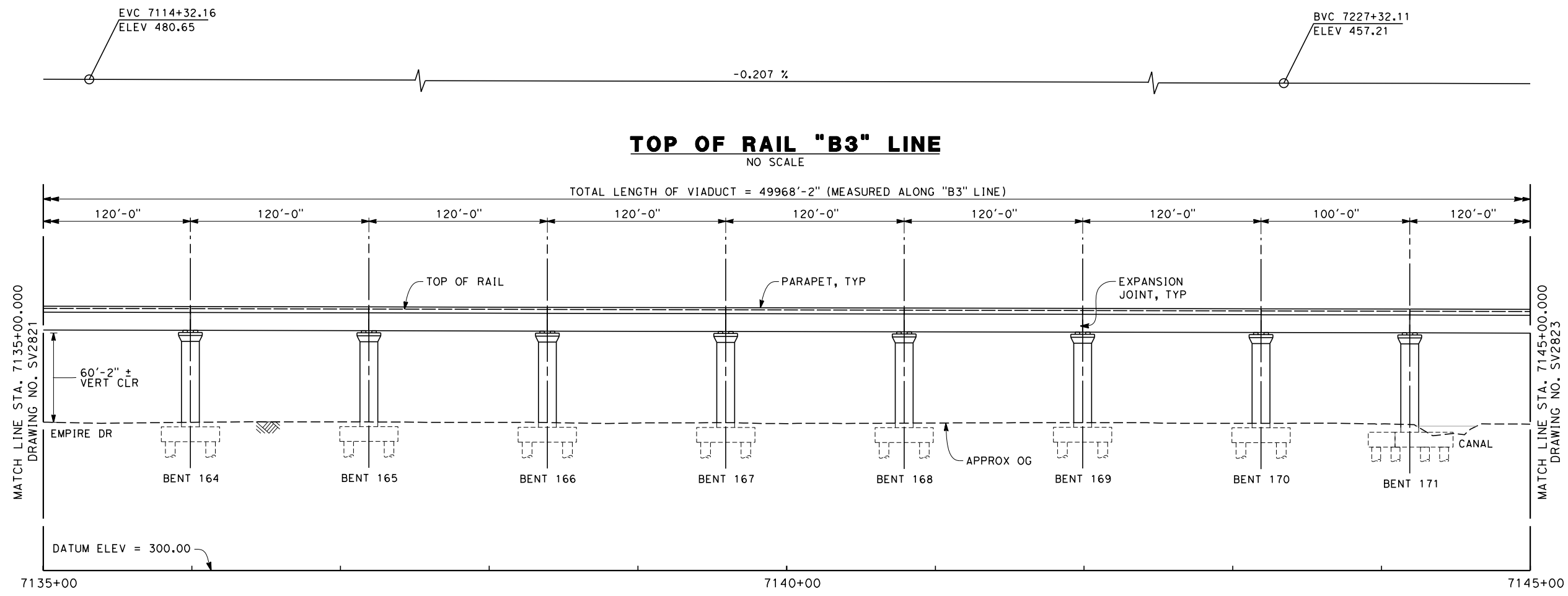
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SCALE
AS SHOWN

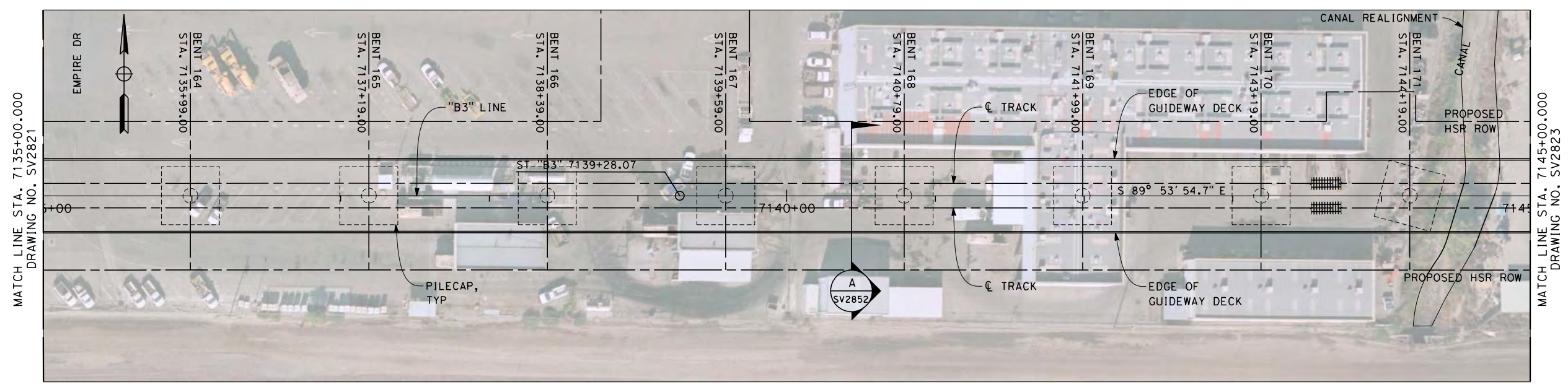
SHEET NO.
22 OF 57

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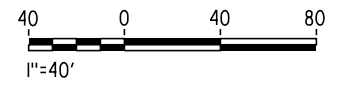


ELEVATION
SCALE 1" = 40'



- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
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- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

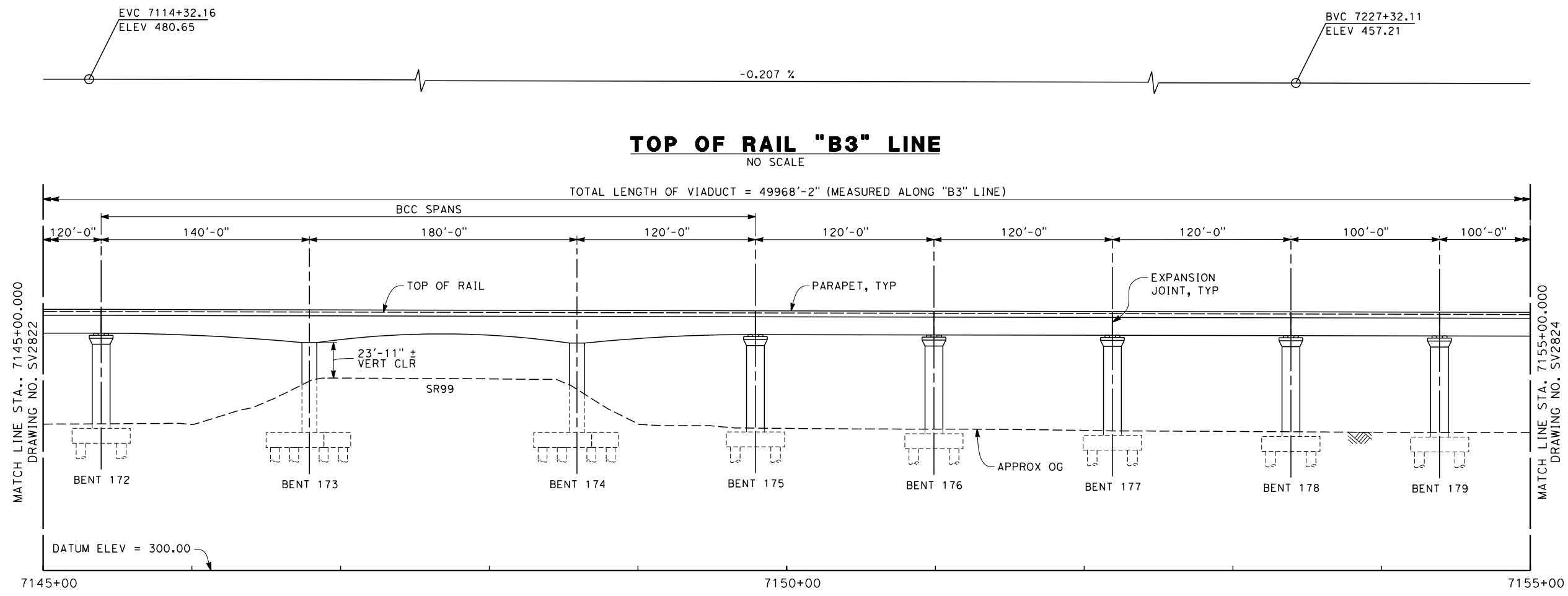
CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2822

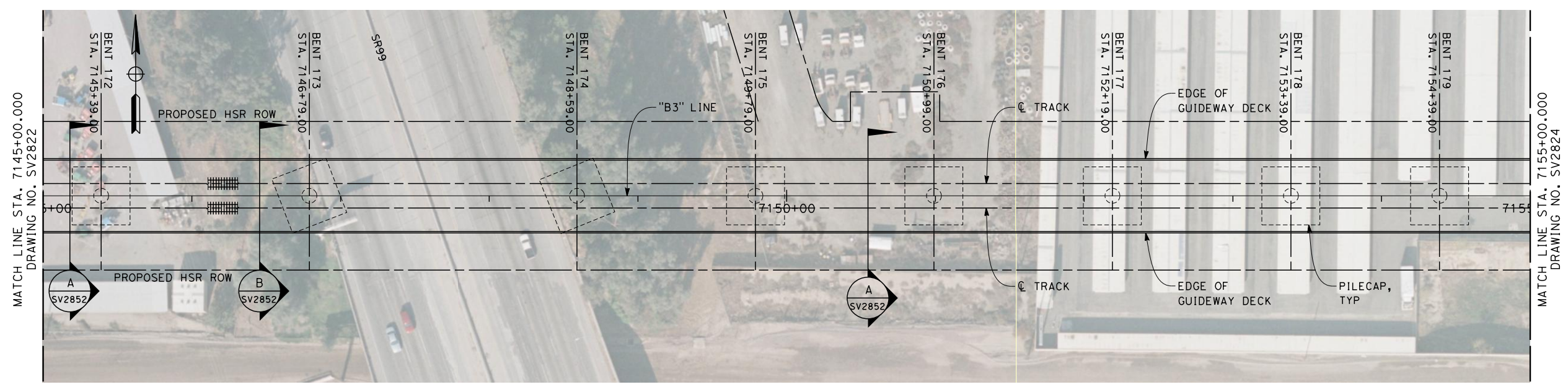
SCALE
AS SHOWN

SHEET NO.
23 OF 57

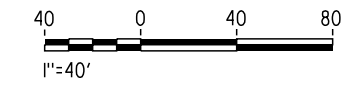
- NOTES**
1. NOT ALL PILES SHOWN
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 3. SUPERSTRUCTURE CONSTRUCTION, UON
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ELEVATION
SCALE 1" = 40'



- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

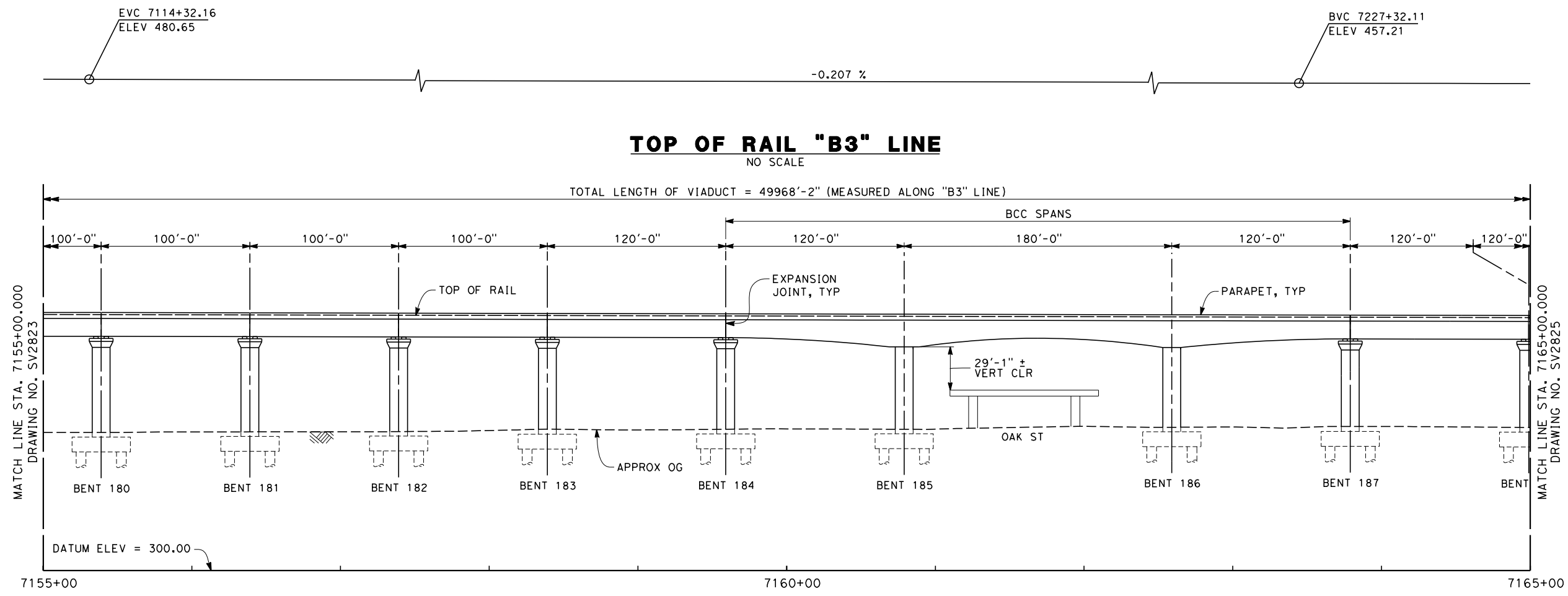
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HSR 06-0003

DRAWING NO.
SV2823

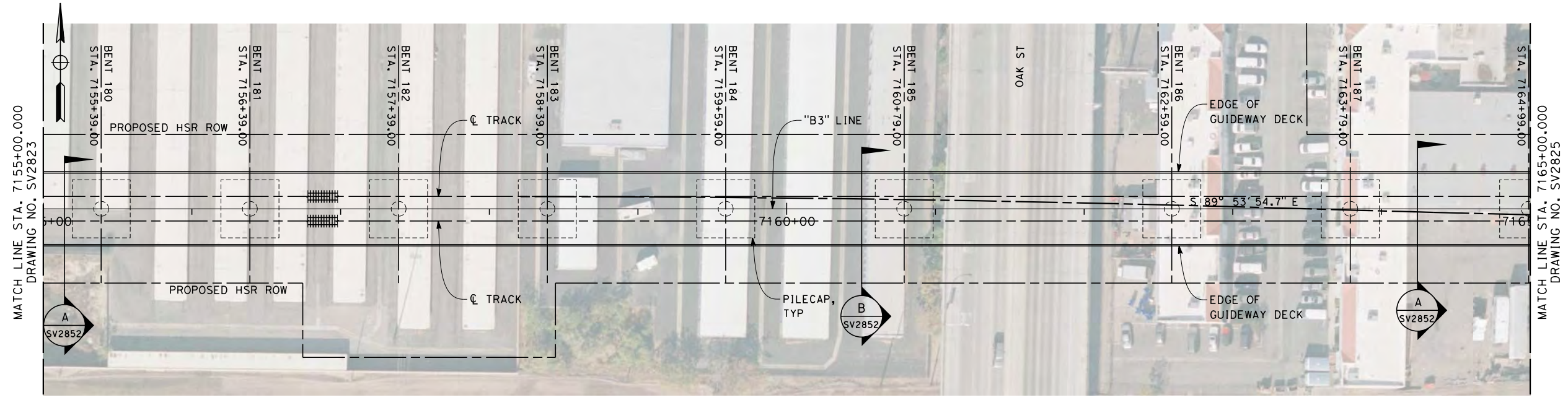
SCALE
AS SHOWN

SHEET NO.
24 OF 57

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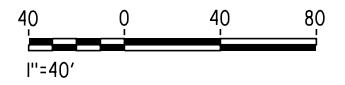


ELEVATION
SCALE 1" = 40'



- NOTES**
- NOT ALL PILES SHOWN
 - PILE LENGTH TO BE DETERMINED
 - SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
 - UTILITY LOCATIONS TO BE DETERMINED
 - ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

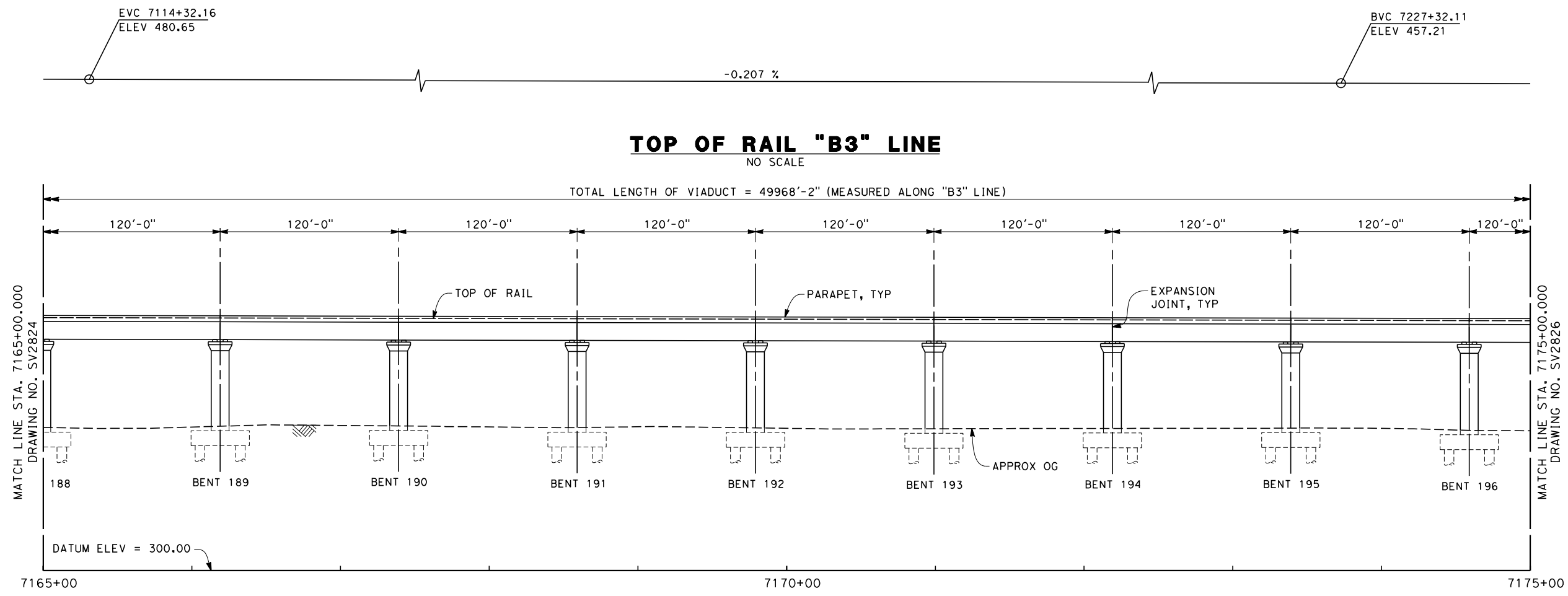
DRAWING NO.
SV2824

SCALE
AS SHOWN

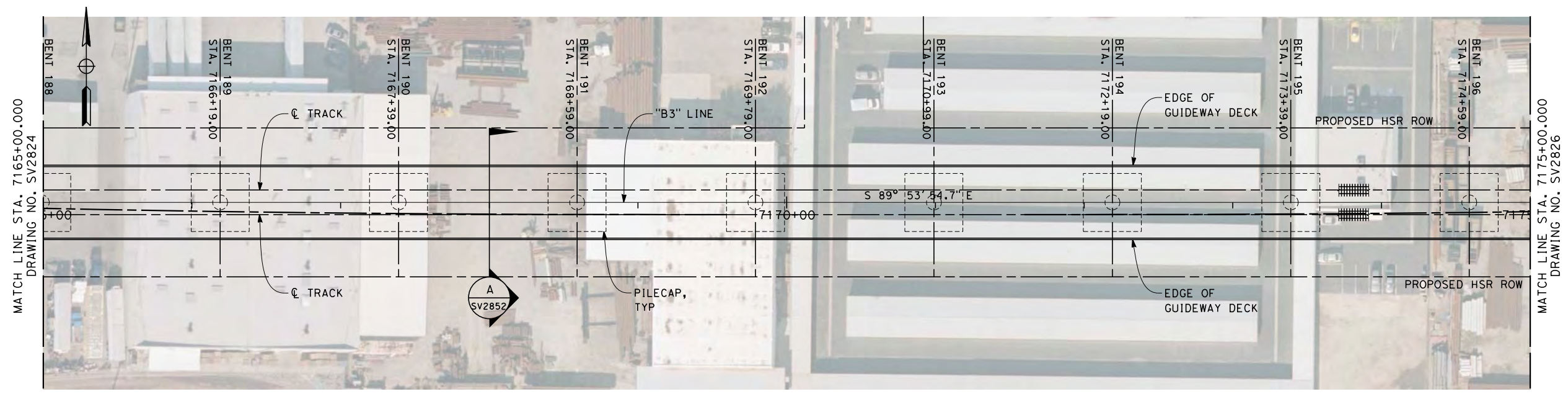
SHEET NO.
25 OF 57

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- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
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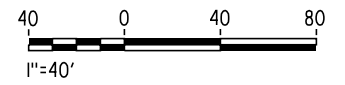


ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

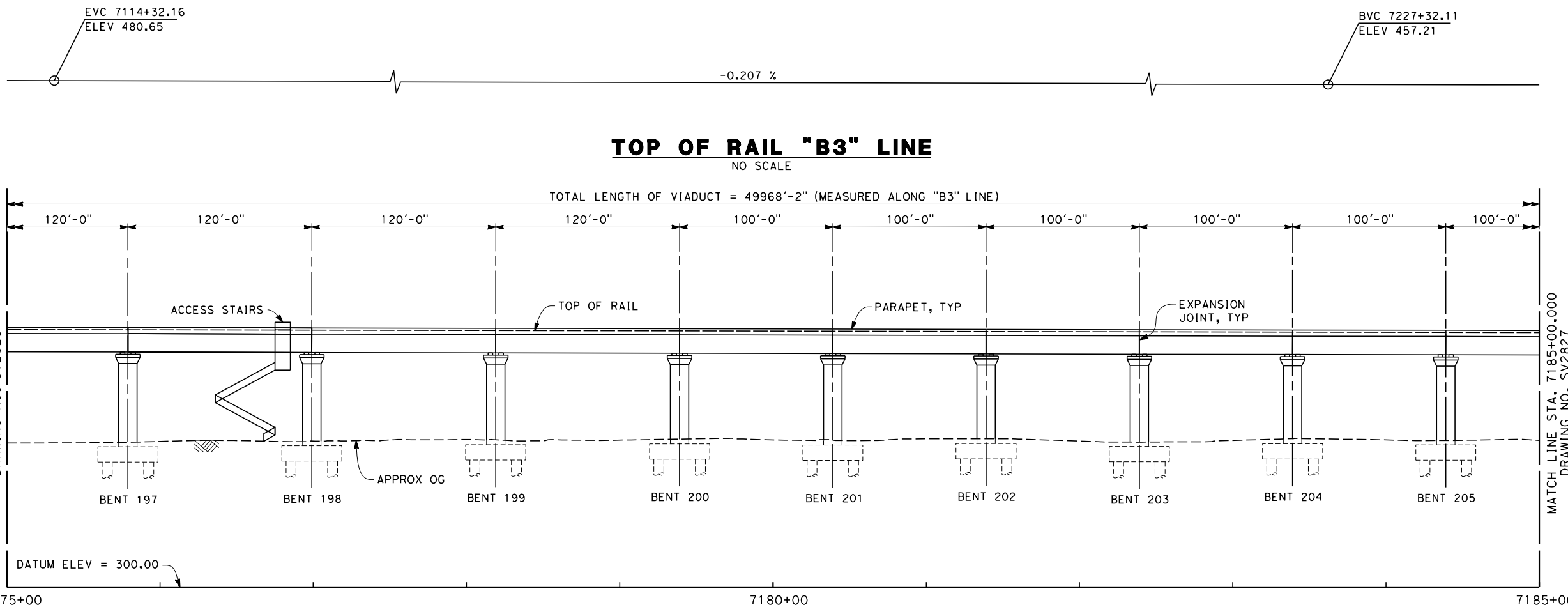
CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2825

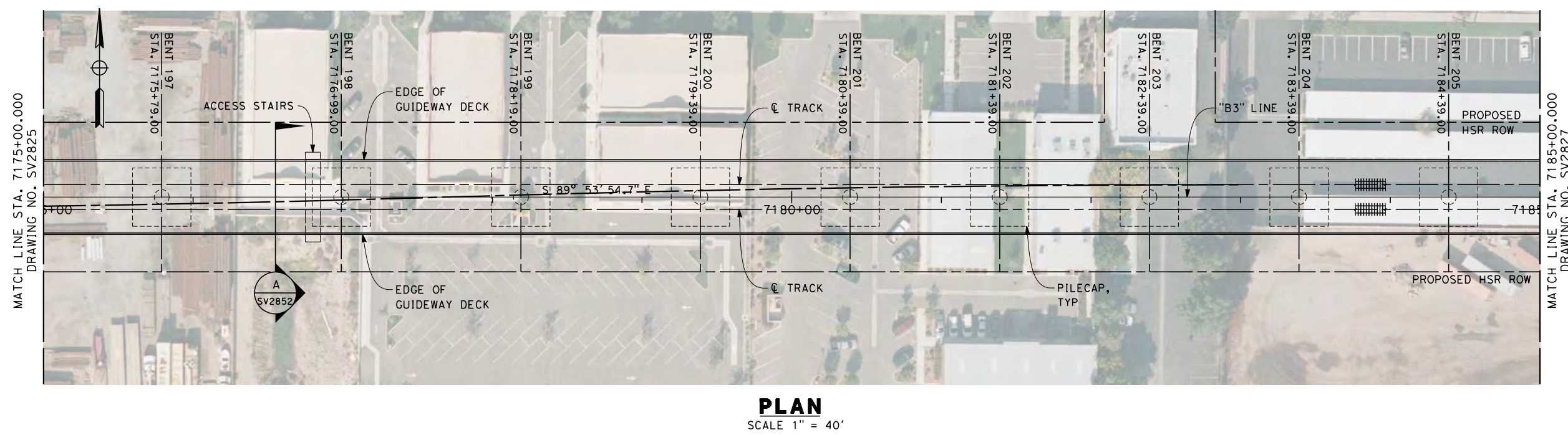
SCALE
AS SHOWN

SHEET NO.
26 OF 57

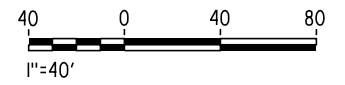
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- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
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- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

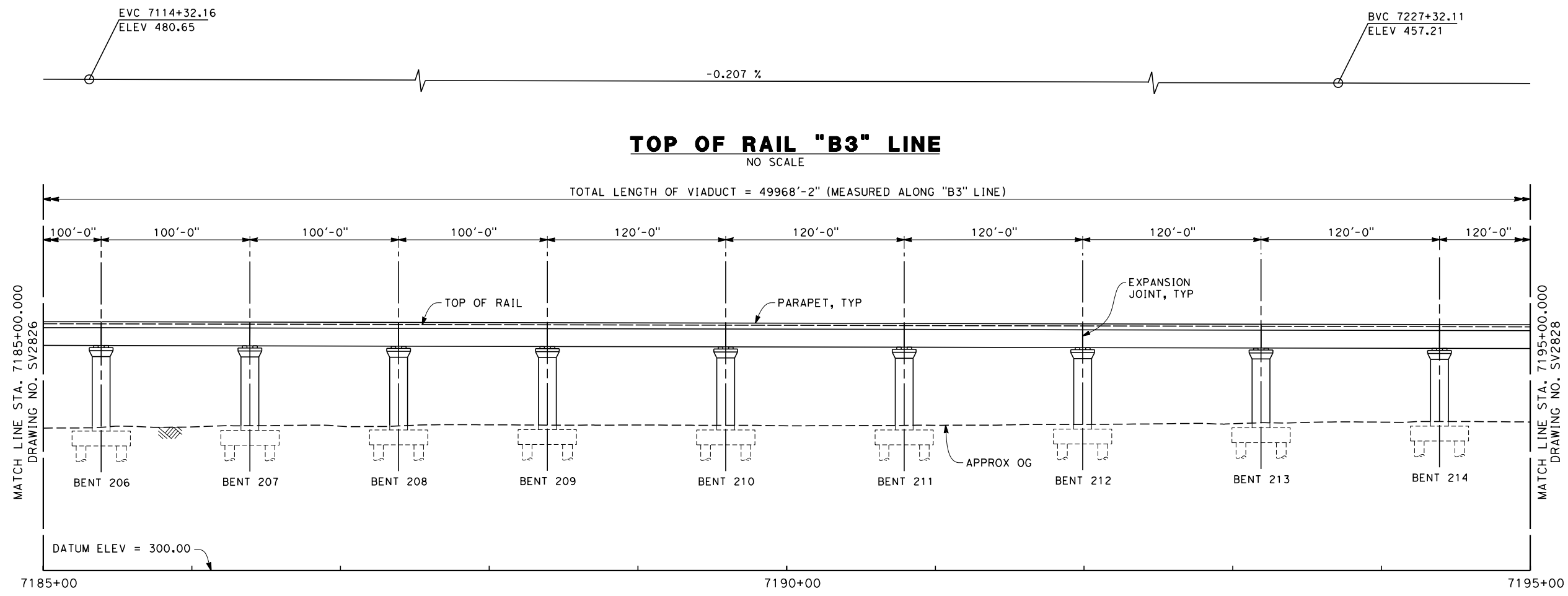
CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2826

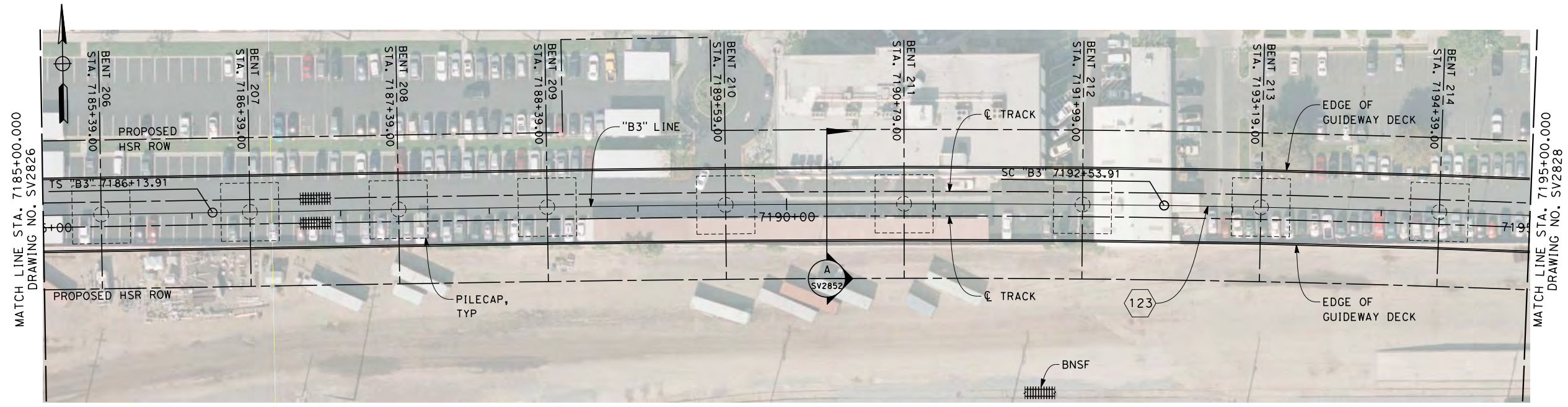
SCALE
AS SHOWN

SHEET NO.
27 OF 57

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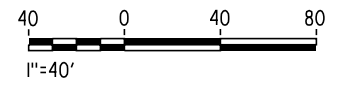


ELEVATION
SCALE 1" = 40'



- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
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- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".
- CURVE DATA**
- Ⓛ 123
- R = 10108.25'
Δ = 07° 03' 31.7"
T = 623.5'
L = 1245.3'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

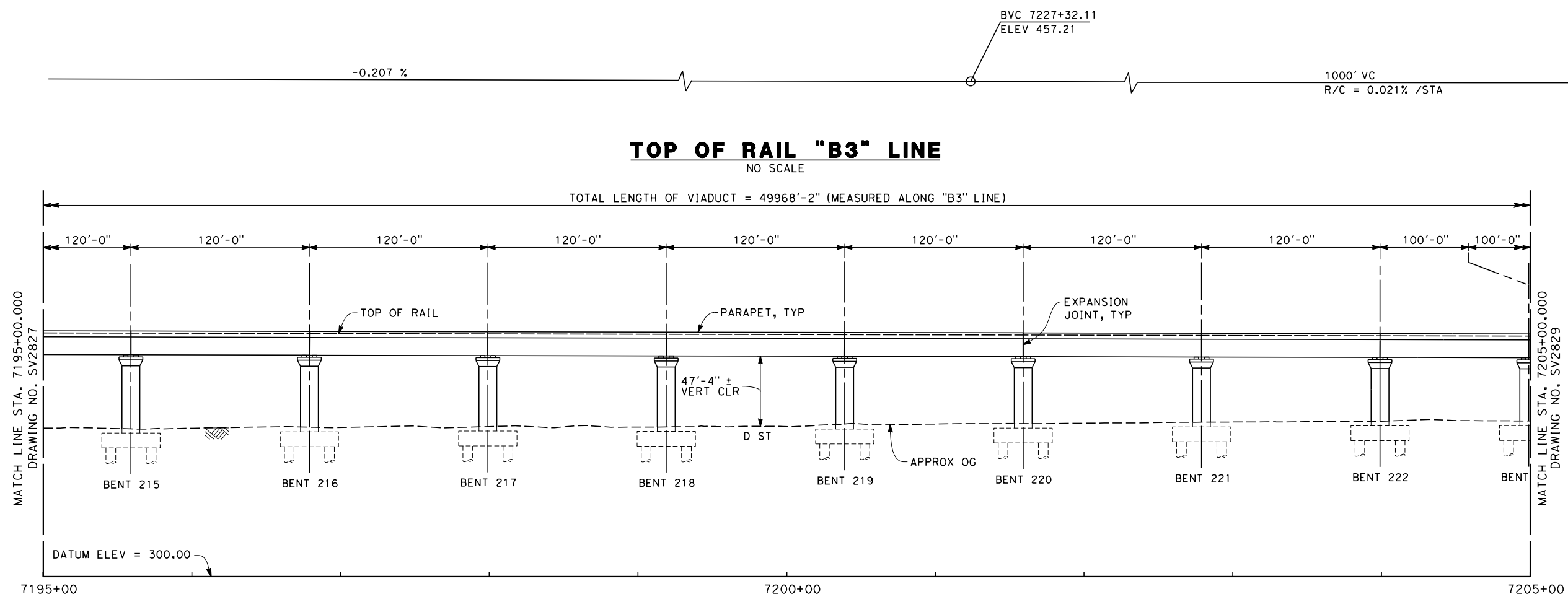
CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2827

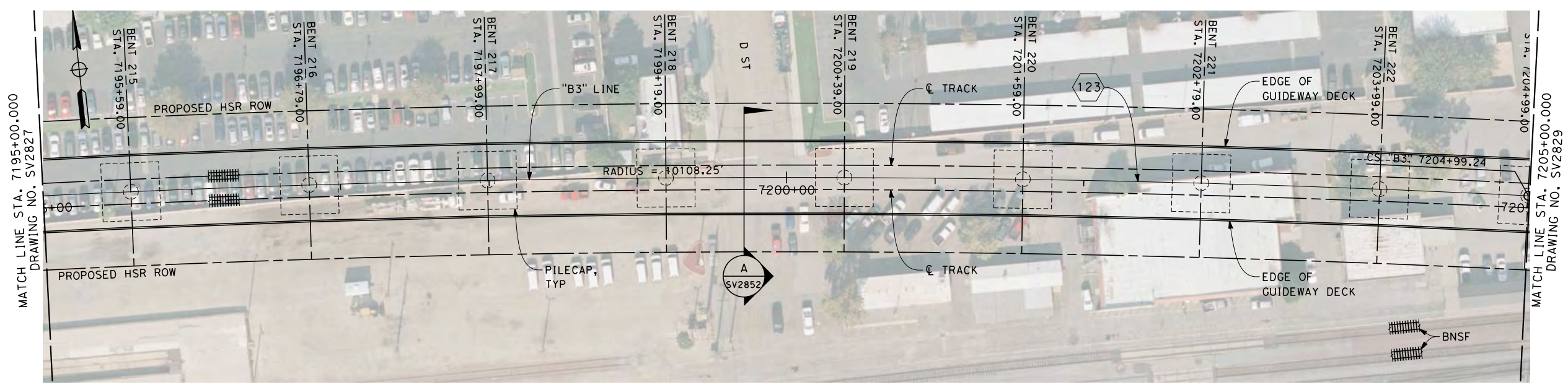
SCALE
AS SHOWN

SHEET NO.
28 OF 57

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ELEVATION
SCALE 1" = 40'



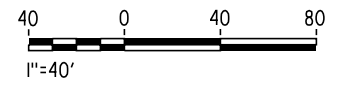
PLAN
SCALE 1" = 40'

- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
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- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

Curve Marking	123
R	10108.25'
Δ	07° 03' 31.7"
T	623.5'
L	1245.3'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



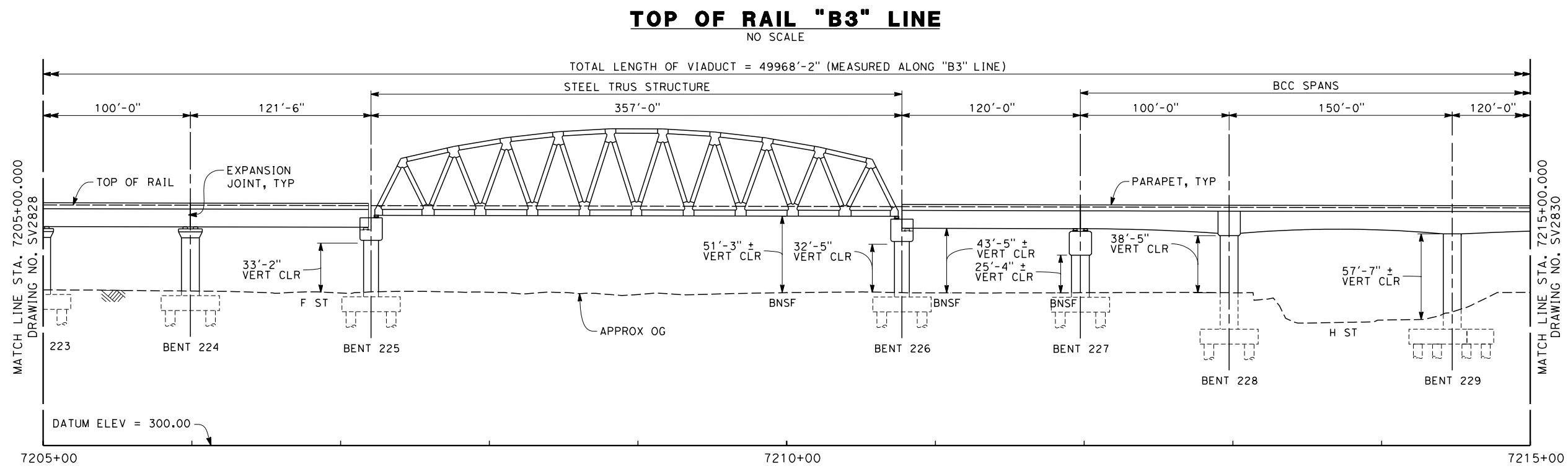
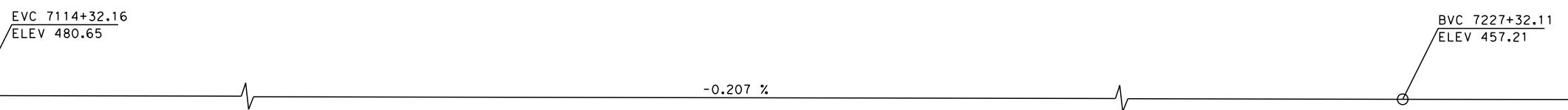
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

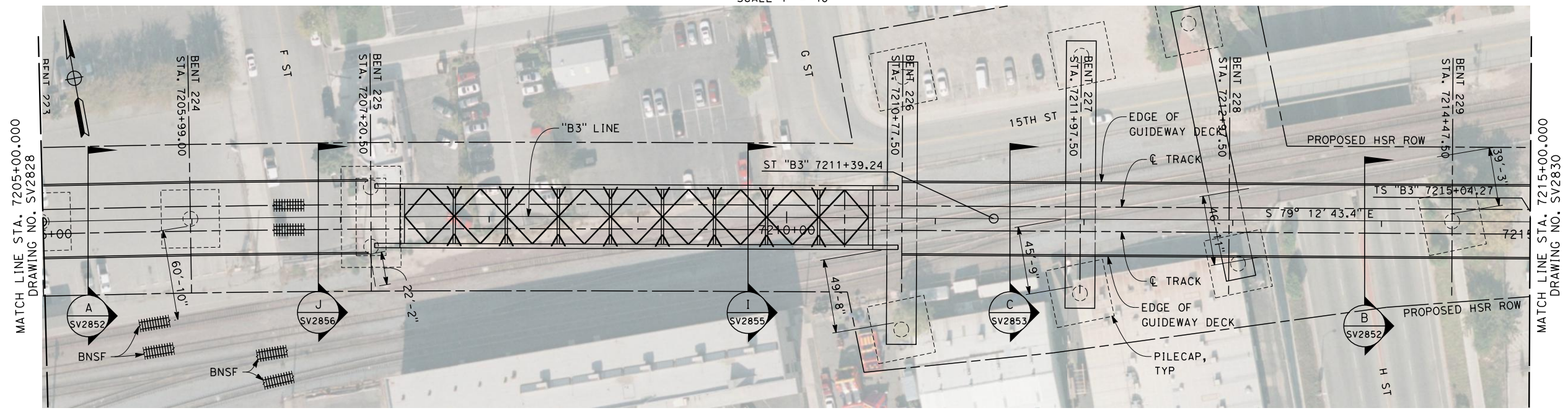
DRAWING NO.
SV2828

SCALE
AS SHOWN

SHEET NO.
29 OF 57



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

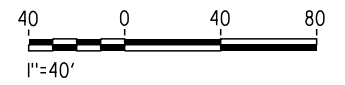
- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 SIMPLE SPANS - MSS OR FLPM
 CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 STEEL TRUSS - IN-SITU, SLID OR LAUNCHED
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 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

Ⓢ123

R = 10108.25'
 Δ = 07° 03' 31.7"
 T = 623.5'
 L = 1245.3'



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2829

SCALE
AS SHOWN

SHEET NO.
30 OF 57

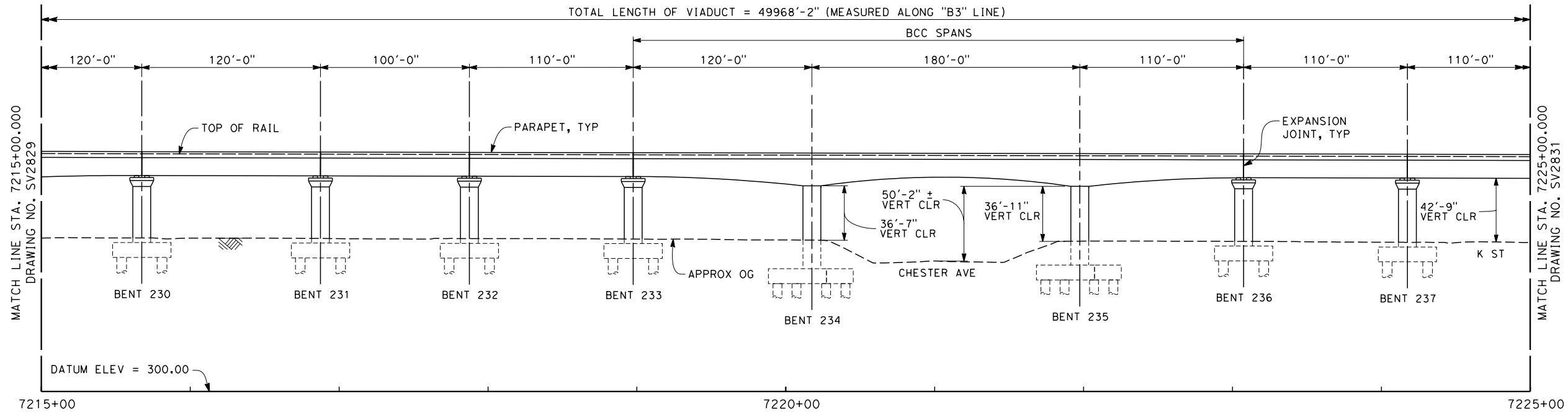
-0.207 %

BVC 7227+32.11
ELEV 457.21

1000' VC
R/C = 0.021% /STA

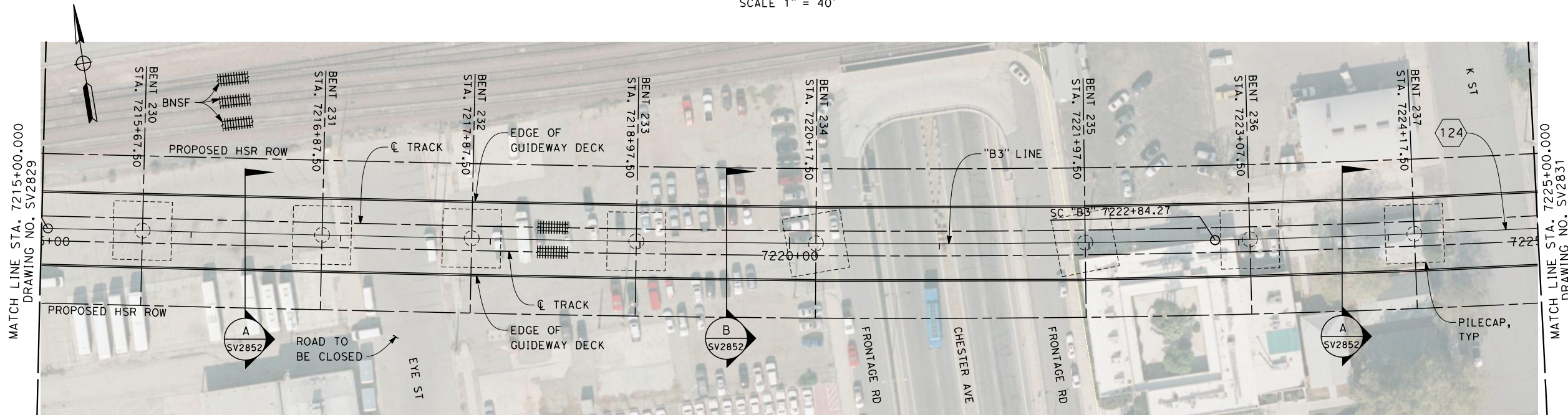
TOP OF RAIL "B3" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
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LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①24

R = 8108.25'

Δ = 13° 23' 44.0"

T = 952.2'

L = 1895.7'



er-on_sudhausen 3/14/2014 4:56:37 PM c:\pwworking\hmm\external\eron_sudhausen-arup.com\dms71888\FB-SV-2830-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 PLAN AND ELEVATION

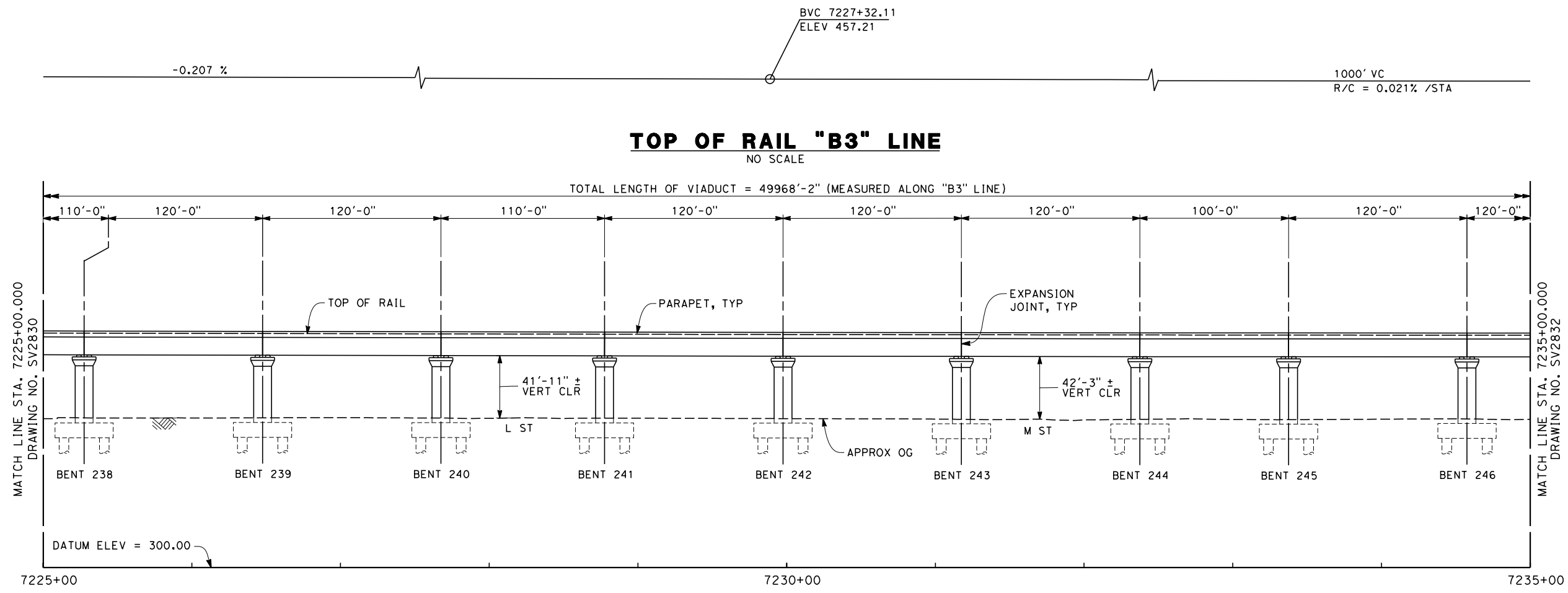
CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2830

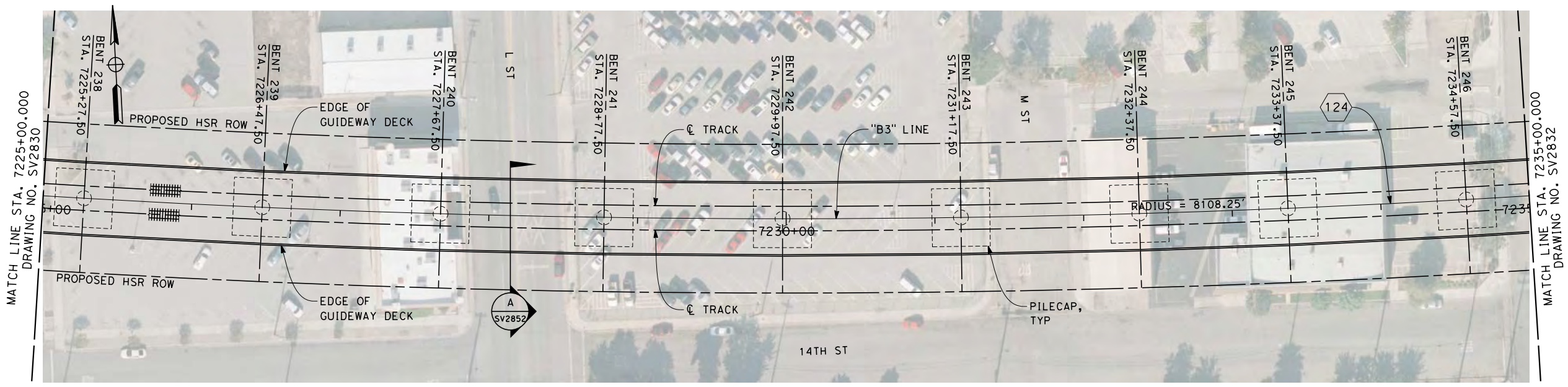
SCALE
AS SHOWN

SHEET NO.
31 OF 57

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ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
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 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

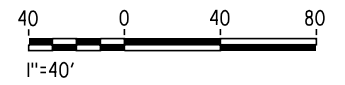
①24

R = 8108.25'

Δ = 13° 23' 44.0"

T = 952.2'

L = 1895.7'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2831

SCALE
AS SHOWN

SHEET NO.
32 OF 57

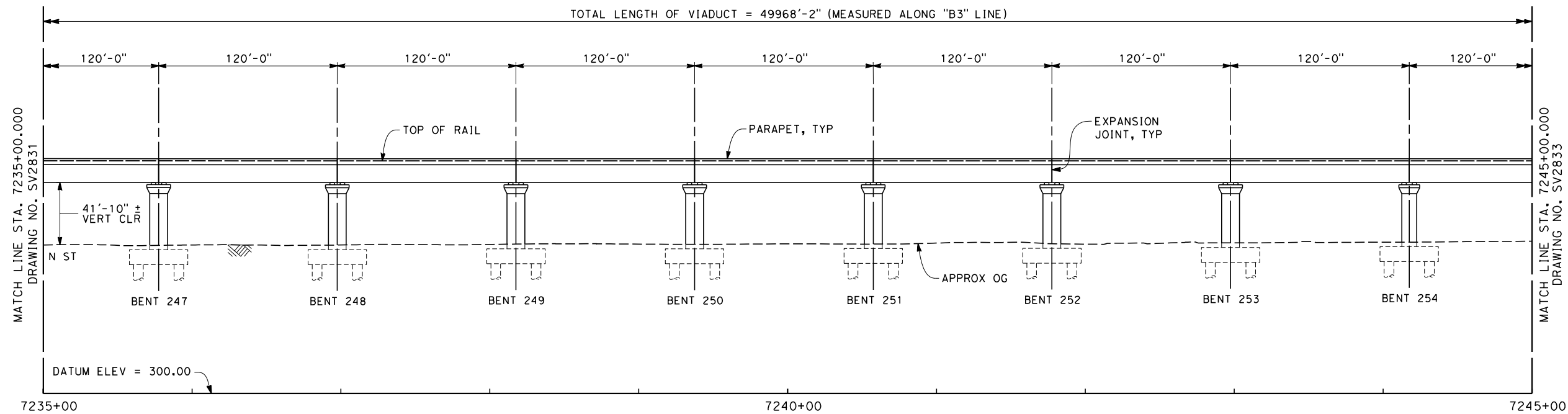
1000' VC
R/C = 0.021% /STA

EVC 7237+32.11
ELEV 456.17

0.000 %

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION
SCALE 1" = 40'

NOTES

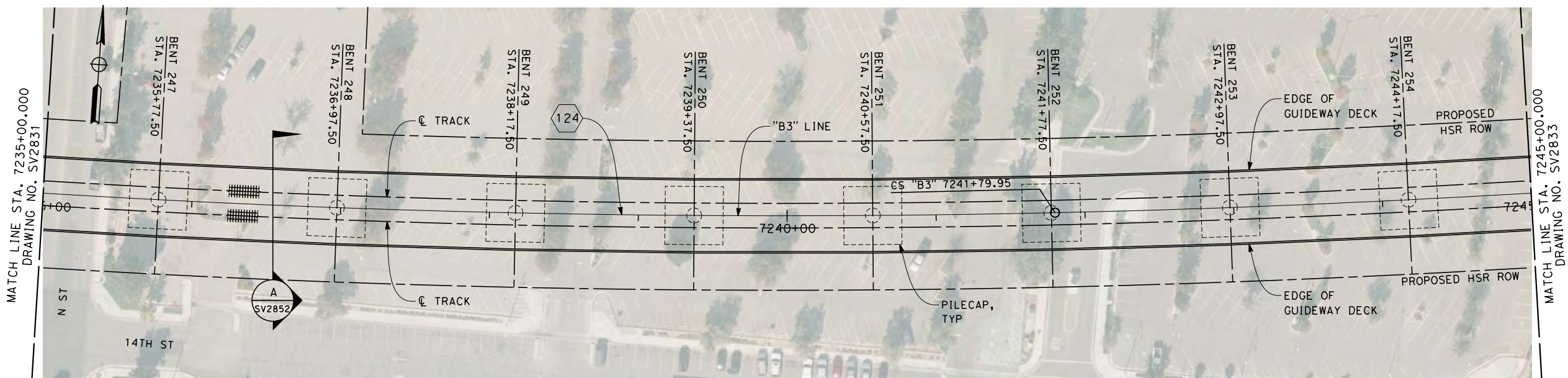
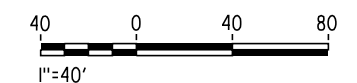
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①24
R = 8108.25'
Δ = 13° 23' 44.0"
T = 952.2'
L = 1895.7'



PLAN
SCALE 1" = 40'

12/20/2013 5:47:57 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2832-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

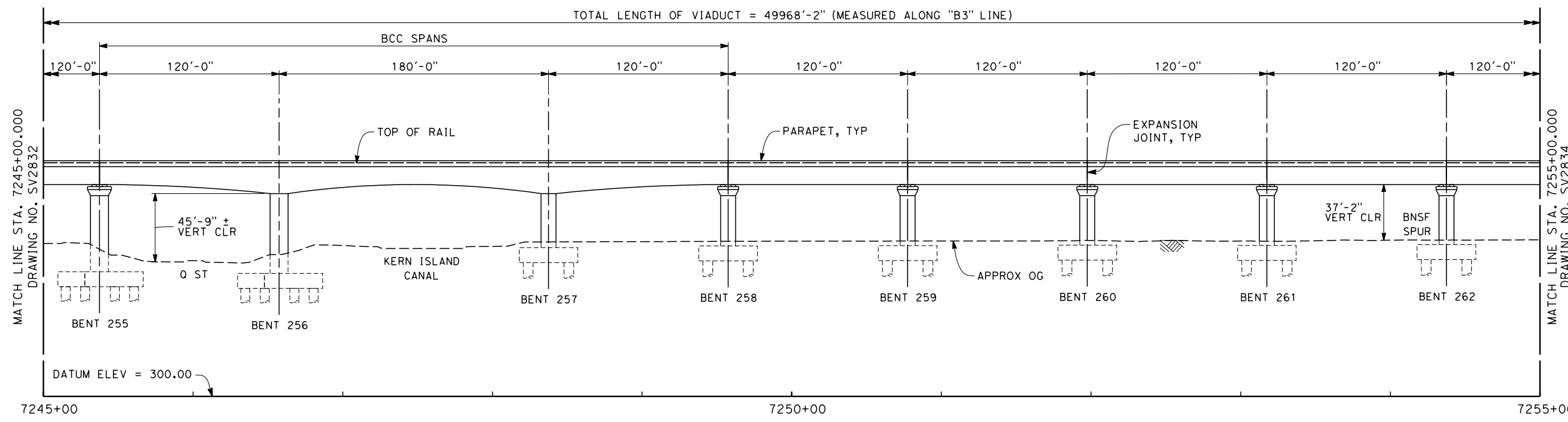


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2832
SCALE
AS SHOWN
SHEET NO.
33 OF 57

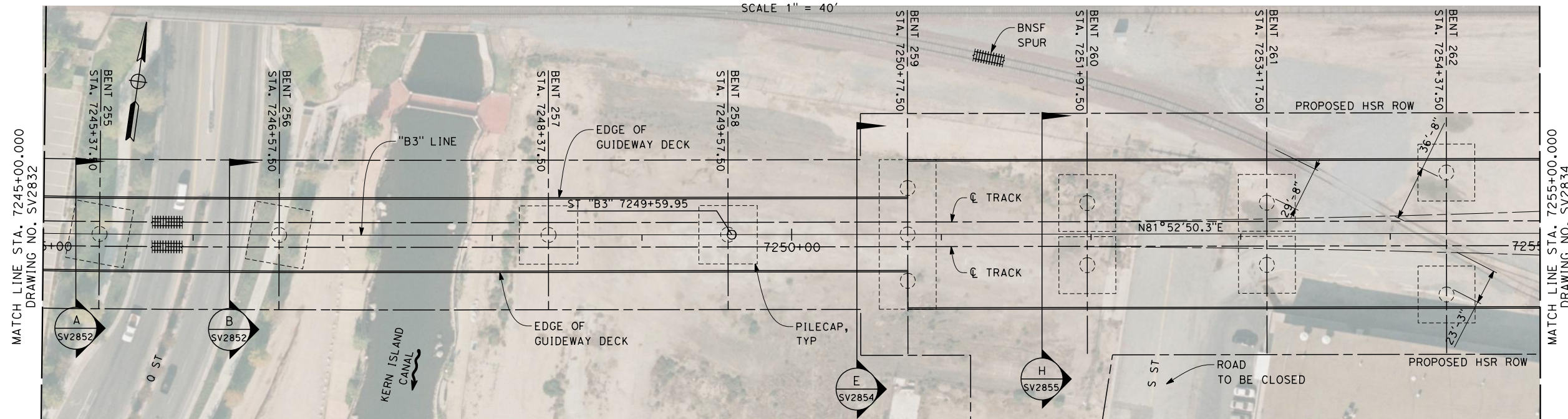
BVC 7321+73.22
ELEV 456.17

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

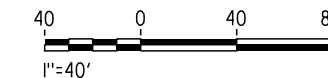
SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - IN-SITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



c:\pwworking\hmm\external\eron.sudhausen-arup.com\dms71888\FB-SV-2833-B3.dgn 3/14/2014 5:16:51 PM eron_sudhausen

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

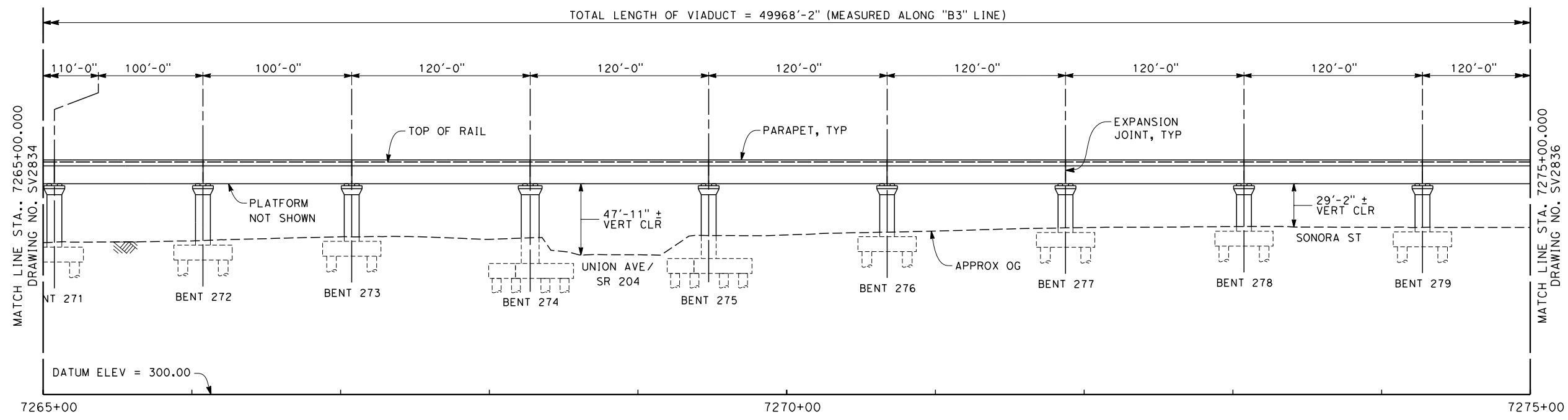
CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2833
SCALE
AS SHOWN
SHEET NO.
34 OF 57

BVC 7321+73.22
ELEV 456.17

0.000 %

TOP OF RAIL "B3" LINE
NO SCALE

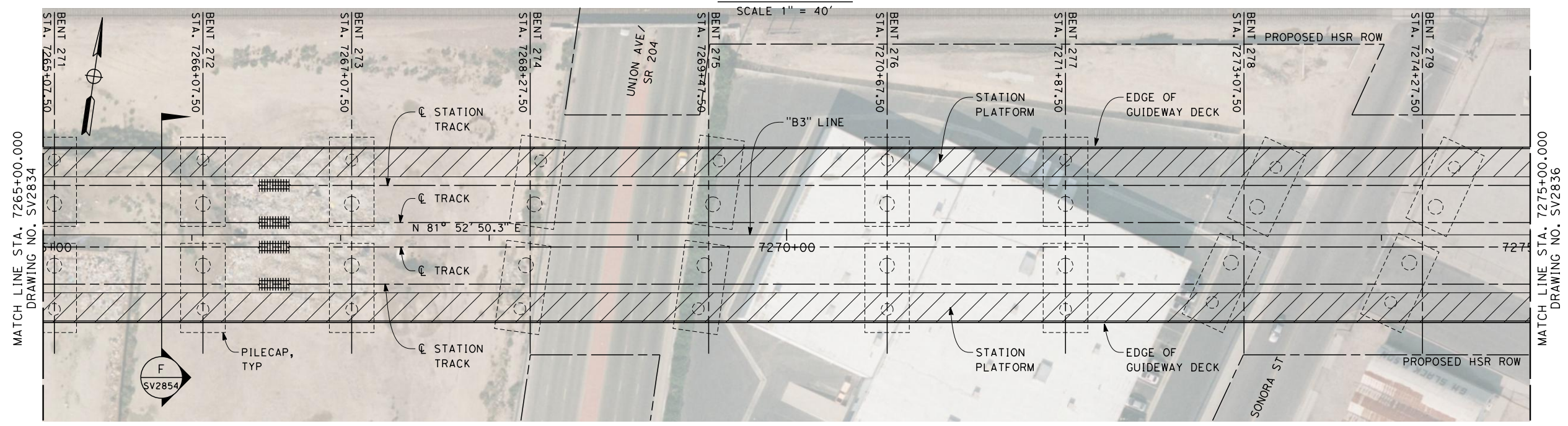
TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - IN-SITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

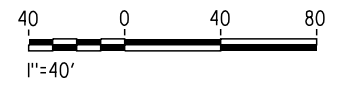
ELEVATION

SCALE 1" = 40'



PLAN
SCALE 1" = 40'

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2835

SCALE
AS SHOWN

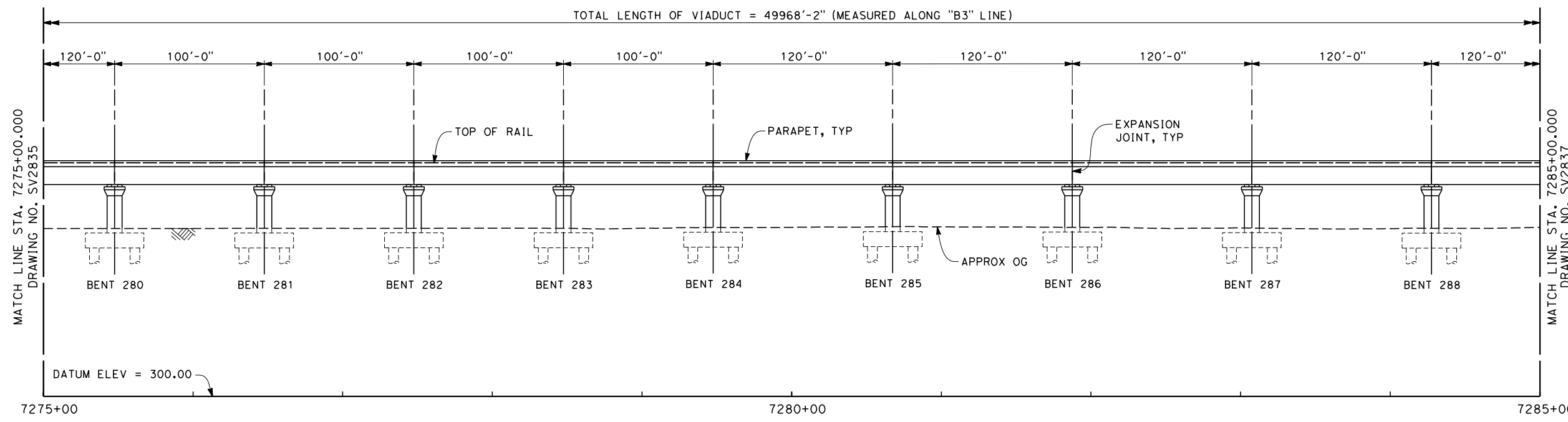
SHEET NO.
36 OF 57

BVC 7321+73.22
ELEV 456.17

0.000 %

TOP OF RAIL "B3" LINE
NO SCALE

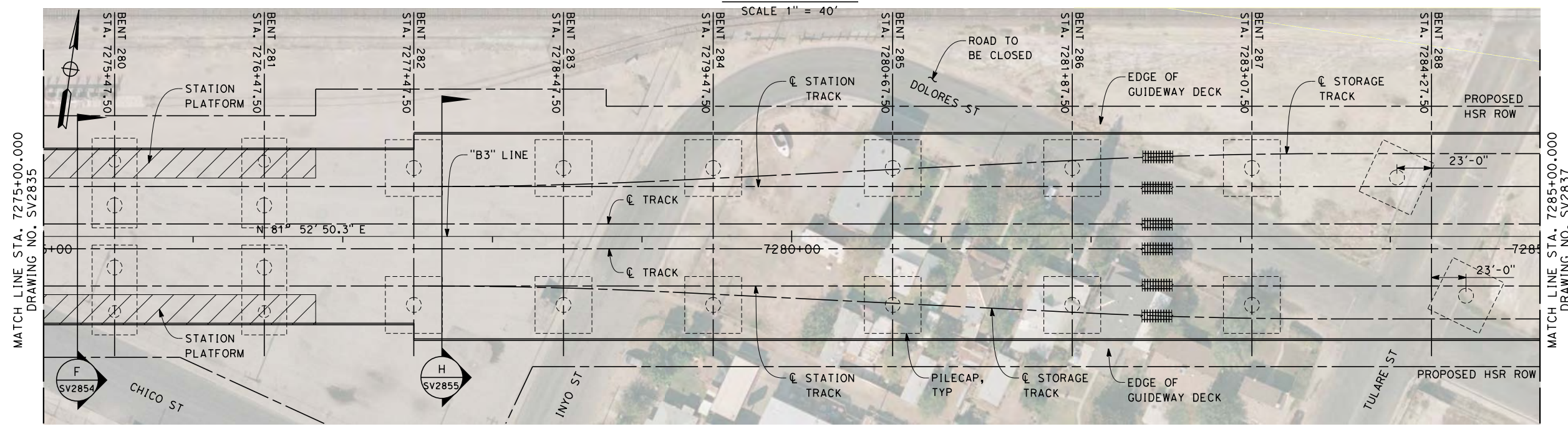
TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

ELEVATION

SCALE 1" = 40'



PLAN
SCALE 1" = 40'

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2836-B3.dgn 12/20/2013 5:49:14 PM frank.palermo

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2836

SCALE
AS SHOWN

SHEET NO.
37 OF 57

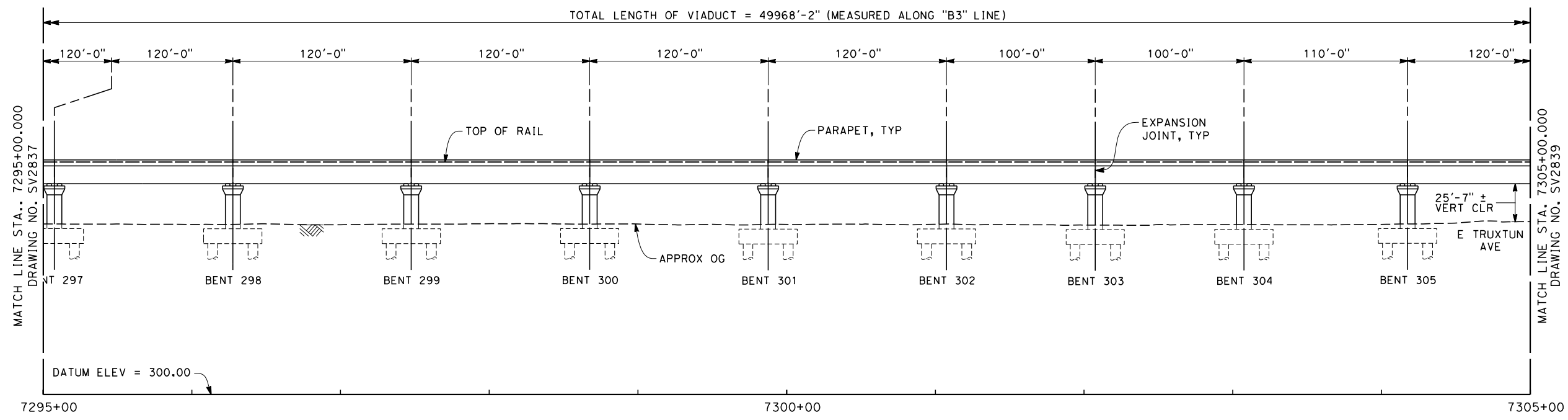
BVC 7321+73.22
ELEV 456.17

0.000 %

TOP OF RAIL "B3" LINE

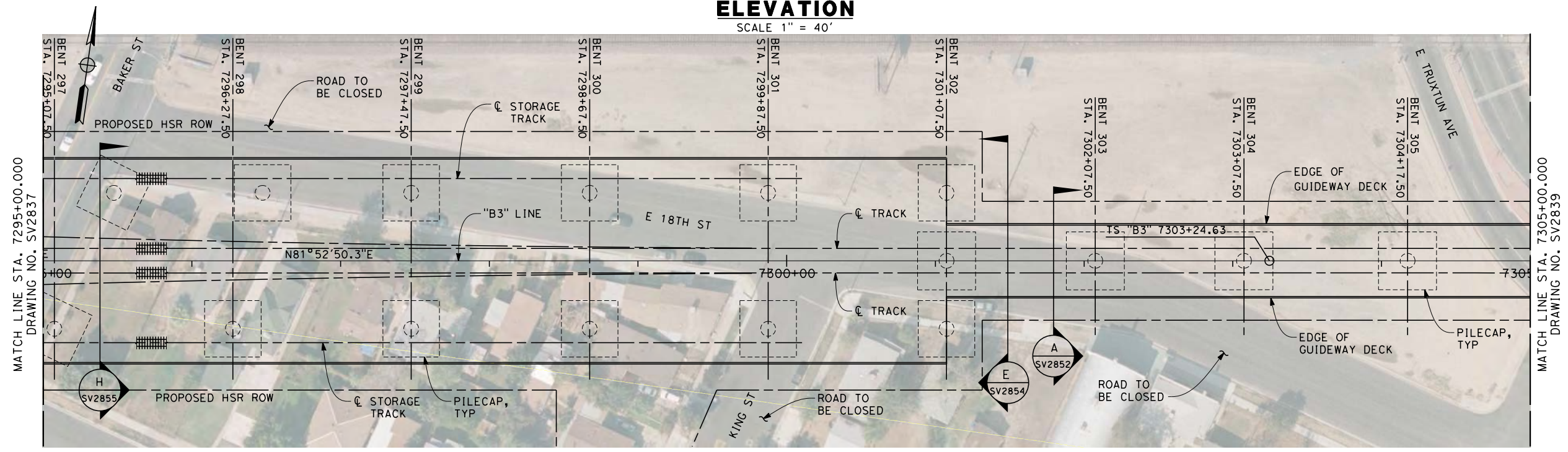
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION

SCALE 1" = 40'

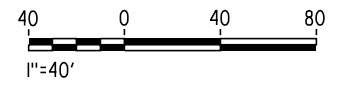


PLAN

SCALE 1" = 40'

- #### NOTES
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
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- #### LEGEND:
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



12/20/2013 5:49:54 PM c:\pwworking\hmm\external\frank.palermo01-ar.com\dms71888\FB-SV-2838-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2838
SCALE
AS SHOWN
SHEET NO.
39 OF 57

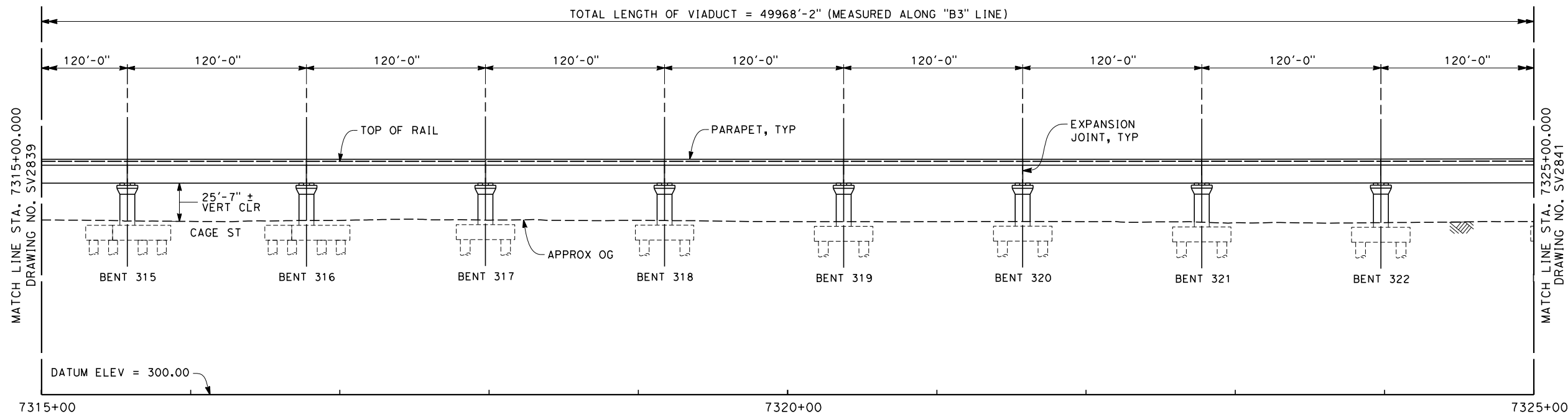
BVC 7321+73.22
ELEV 456.17

EVC 7338+73.22
ELEV 461.62

1700' VC
R/C = 0.038% /STA

TOP OF RAIL "B3" LINE
NO SCALE

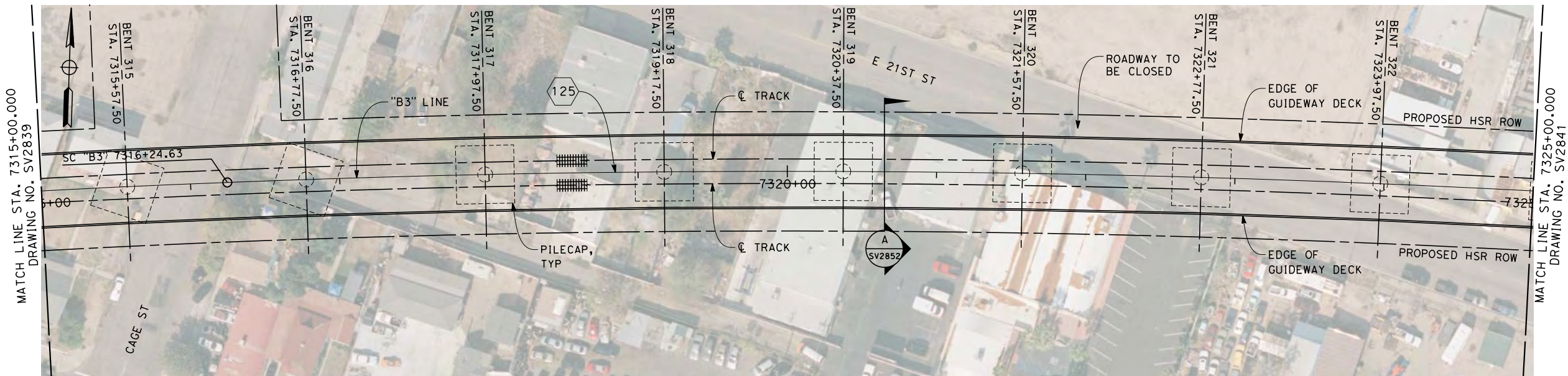
TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION
SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



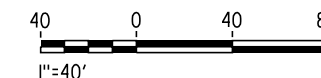
PLAN
SCALE 1" = 40'

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①25
R = 9500.00'
Δ = 17° 08' 35.7"
T = 1431.9'
L = 2842.5'



12/20/2013 5:50:28 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2840-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2840
SCALE
AS SHOWN
SHEET NO.
41 OF 57

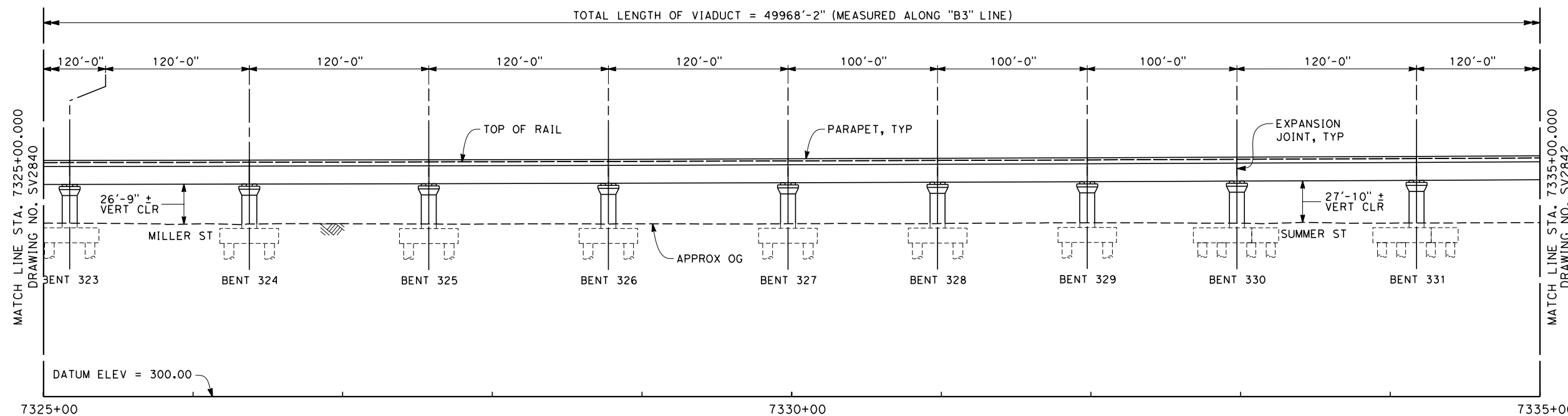
BVC 7321+73.22
ELEV 456.17

EVC 7338+73.22
ELEV 461.62

1700' VC
R/C = 0.038% /STA

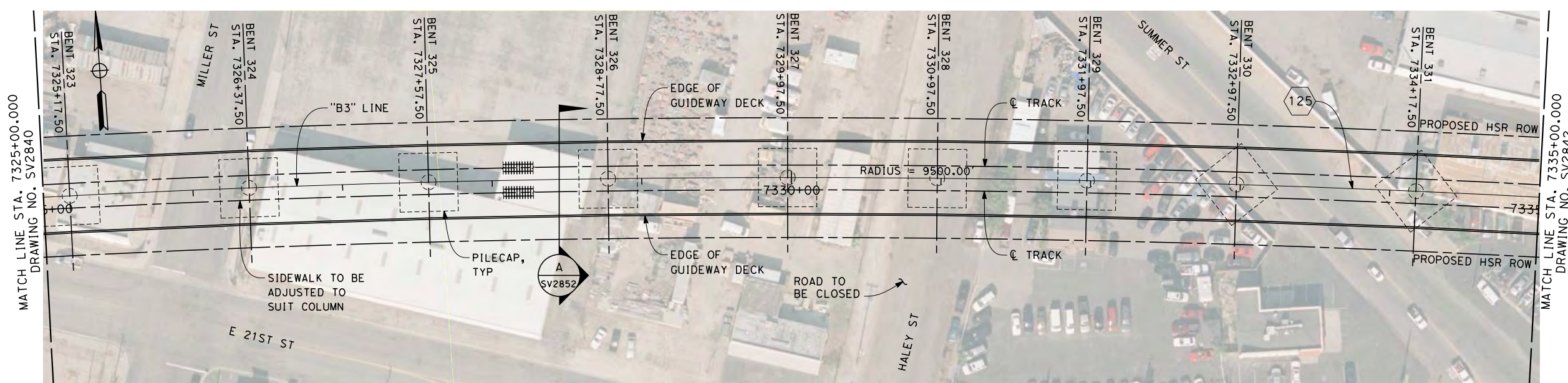
TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



ELEVATION
SCALE 1" = 40'

- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



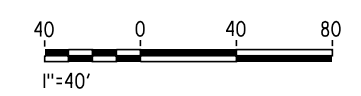
PLAN
SCALE 1" = 40'

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

① 125

R = 9500.00'
 $\Delta = 17^\circ 08' 35.7''$
 T = 1431.9'
 L = 2842.5'



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

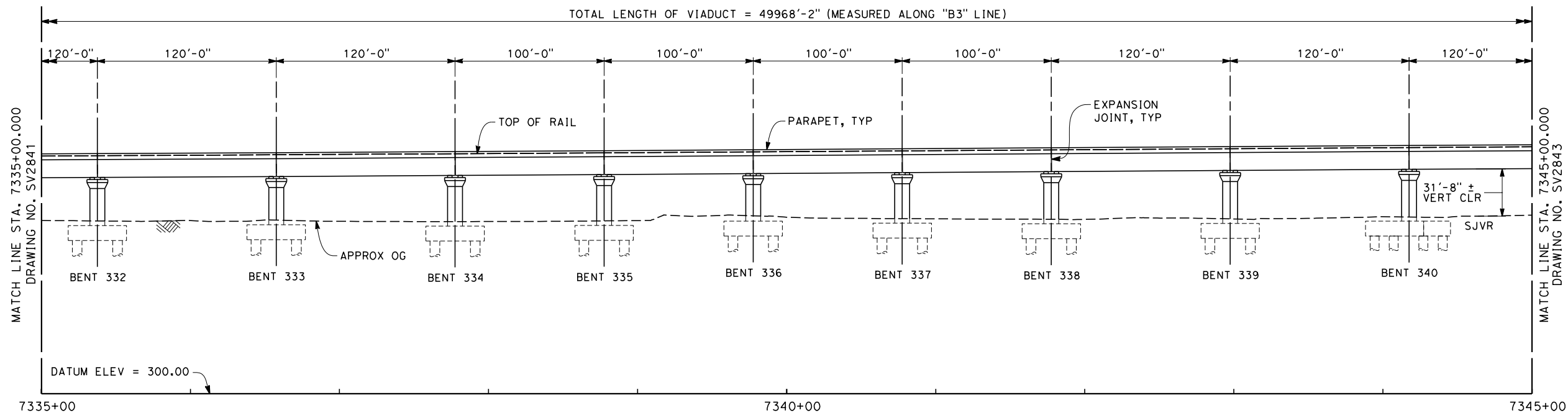
DRAWING NO.
SV2841

SCALE
AS SHOWN

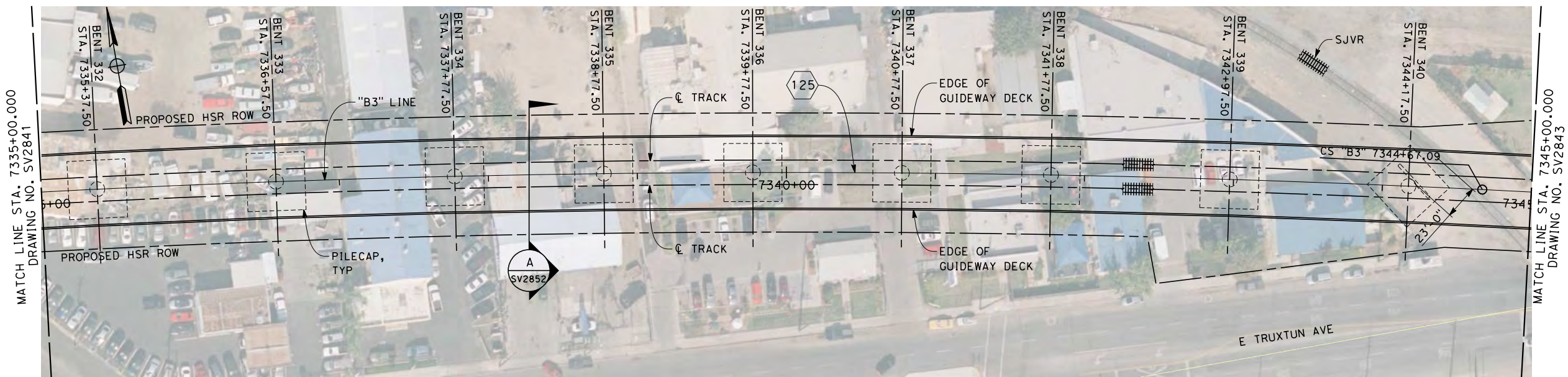
SHEET NO.
42 OF 57



TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES

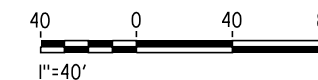
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

①25
R = 9500.00'
Δ = 17° 08' 35.7"
T = 1431.9'
L = 2842.5'



12/20/2013 5:51:16 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2842-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

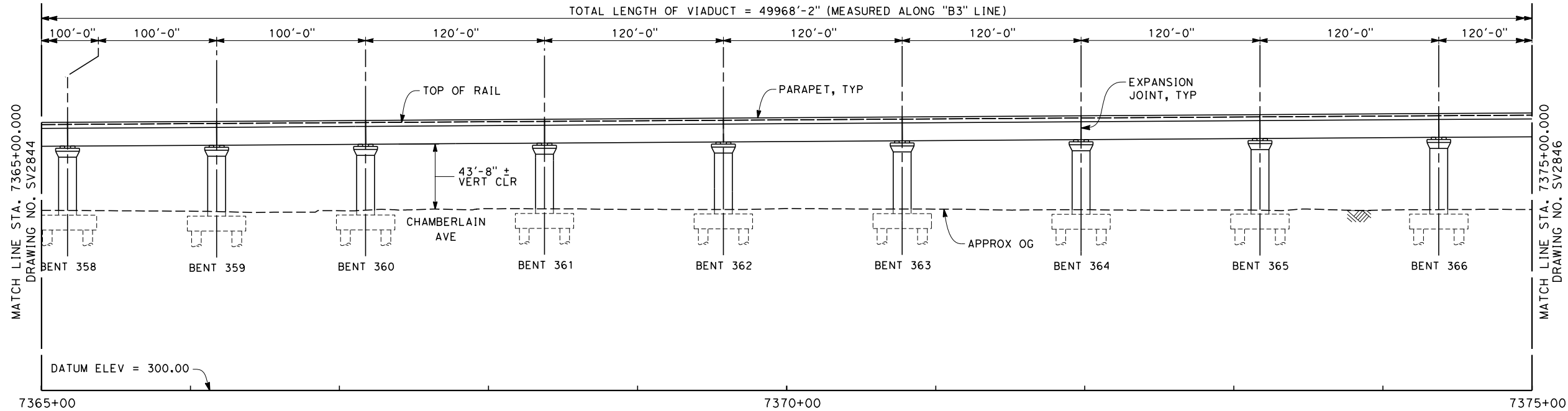
CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2842
SCALE
AS SHOWN
SHEET NO.
43 OF 57

EVC 7338+73.22
ELEV 461.62

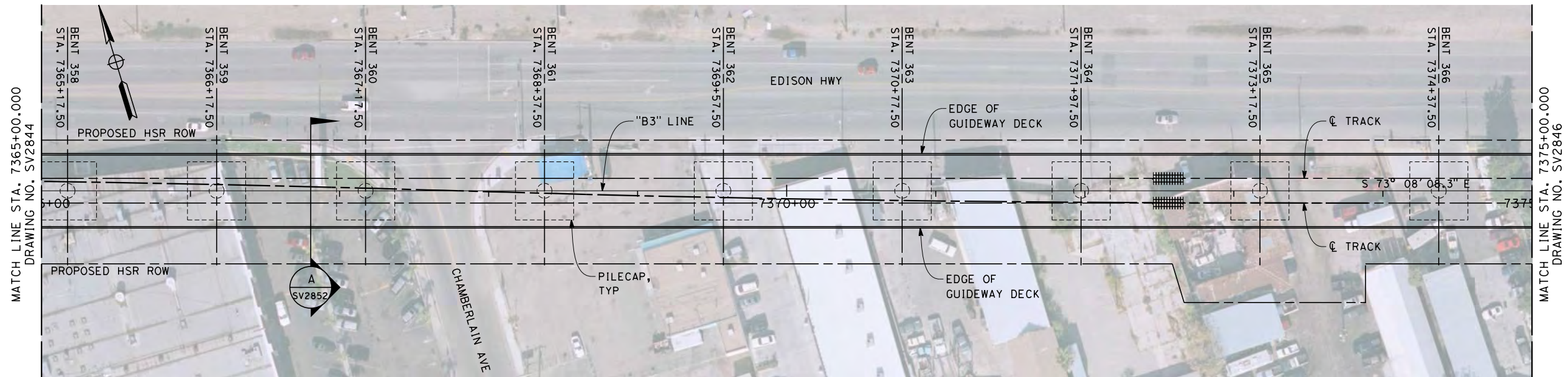
BVC 7392+02.32
ELEV 495.77

0.641 %

TOP OF RAIL "B3" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



12/20/2013 5:52:14 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2845-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2845
SCALE
AS SHOWN
SHEET NO.
46 OF 57

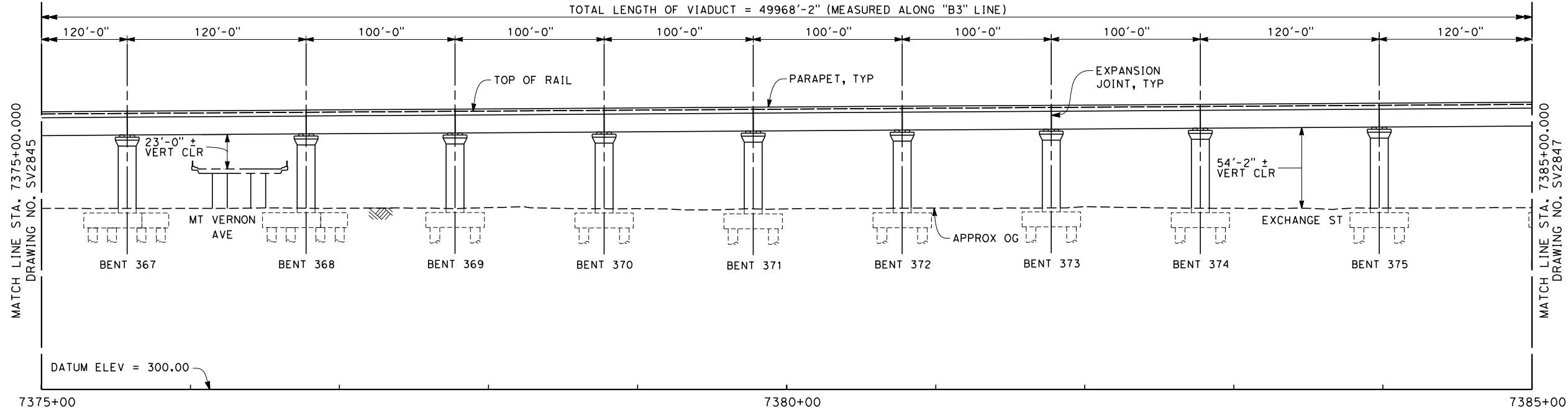
EVC 7338+73.22
ELEV 461.62

BVC 7392+02.32
ELEV 495.77

0.641 %

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



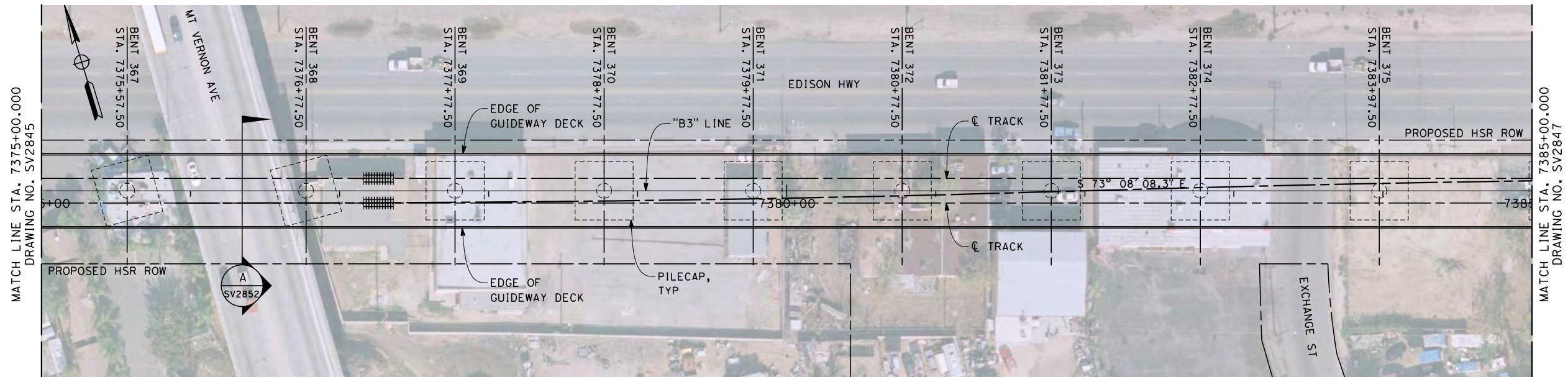
ELEVATION
SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



PLAN
SCALE 1" = 40'



c:\pwworking\hmm\external\frank.palermo01-arup.com\dms71888\FB-SV-2846-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2846
SCALE
AS SHOWN
SHEET NO.
47 OF 57

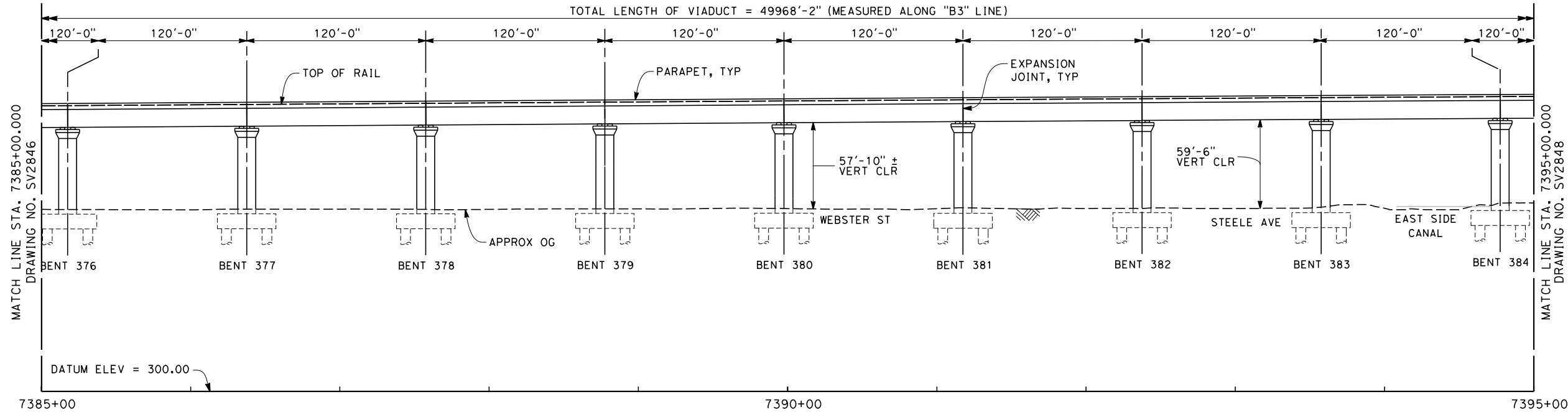
EVC 7338+73.22
ELEV 461.62

BVC 7392+02.32
ELEV 495.77

0.641 %

TOP OF RAIL "B3" LINE
NO SCALE

TOTAL LENGTH OF VIADUCT = 49968'-2" (MEASURED ALONG "B3" LINE)



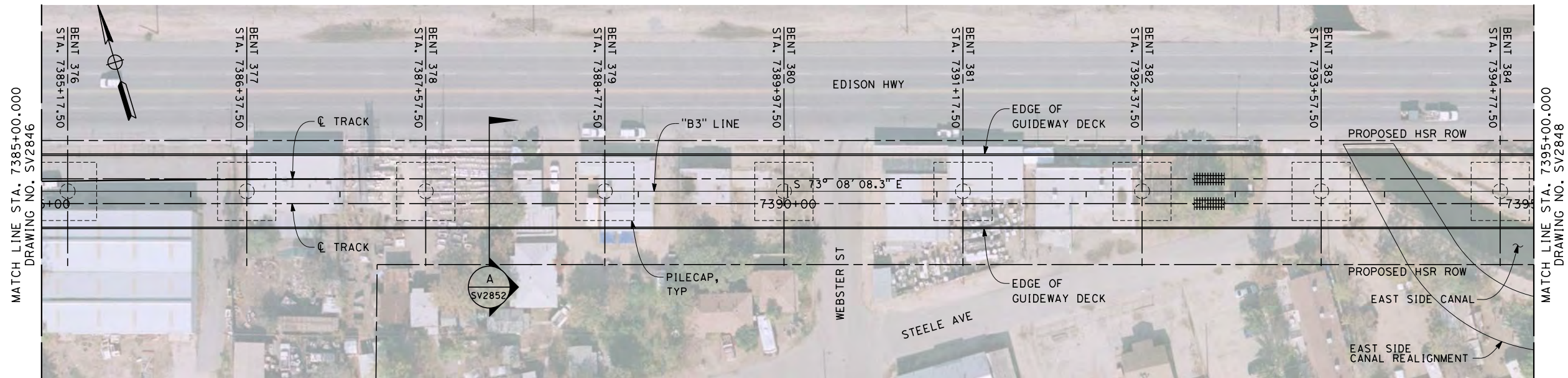
ELEVATION
SCALE 1" = 40'

NOTES

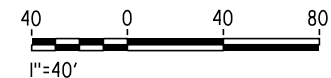
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
SIMPLE SPANS - MSS OR FLPM
CONTINUOUS SPANS - BCC - PRECAST IN-SITU
STEEL TRUSS - INSITU, SLID OR LAUNCHED
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



PLAN
SCALE 1" = 40'



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

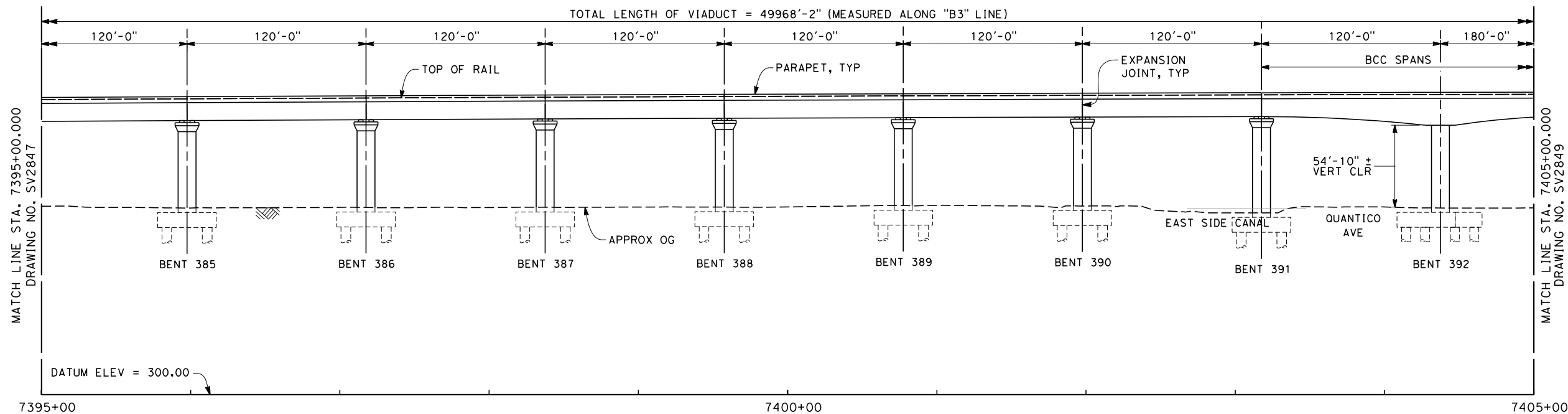
CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2847
SCALE
AS SHOWN
SHEET NO.
48 OF 57

BVC 7392+02.32
ELEV 495.77

EVC 7412+02.32
ELEV 501.37

2000' VC
R/C = -0.036% /STA

TOP OF RAIL "B3" LINE
NO SCALE



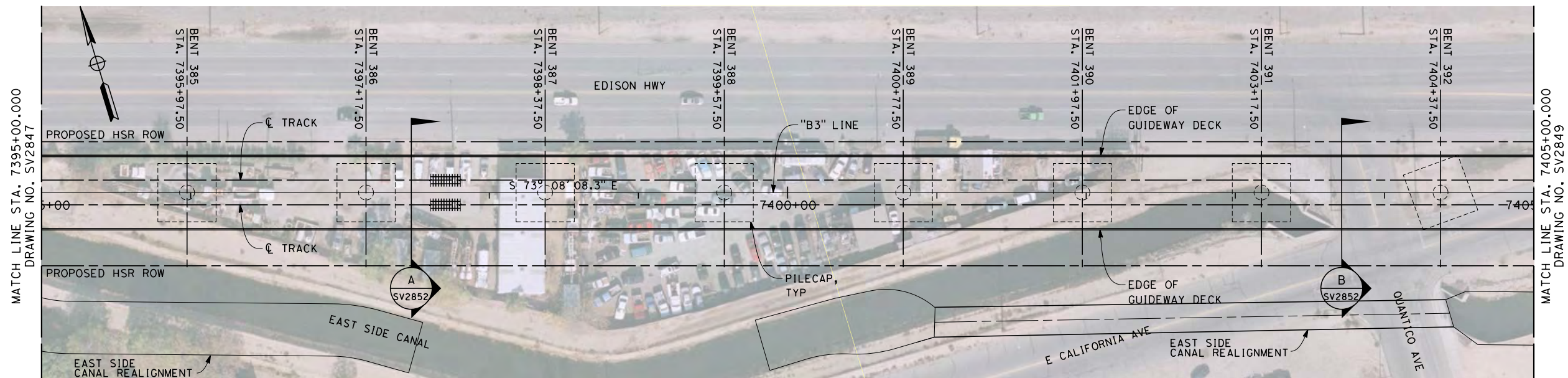
ELEVATION
SCALE 1" = 40'

NOTES

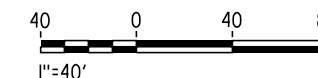
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



PLAN
SCALE 1" = 40'



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

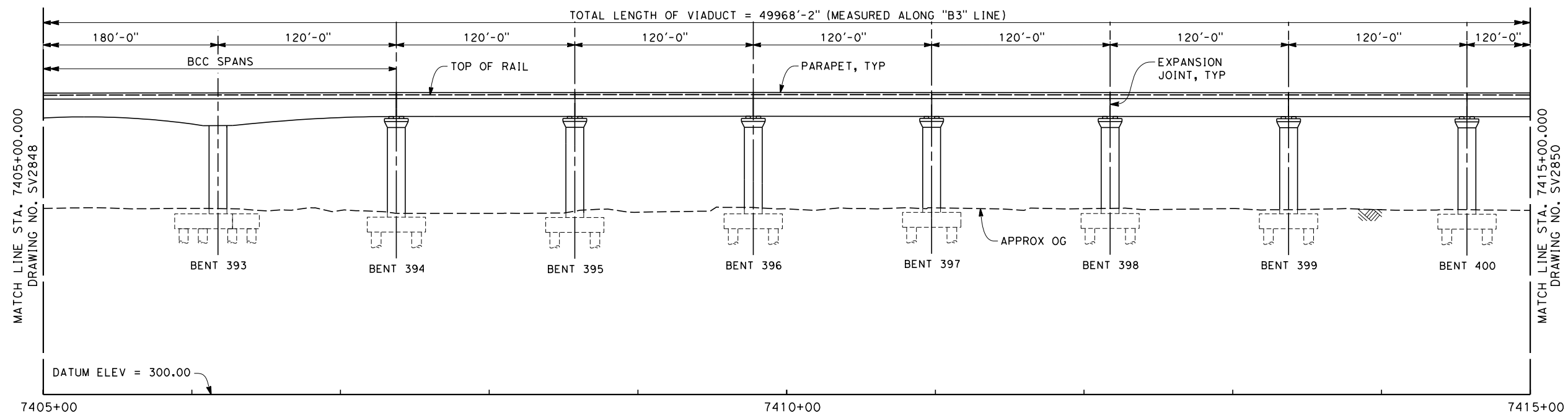
CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2848
SCALE
AS SHOWN
SHEET NO.
49 OF 57

BVC 7392+02.32
ELEV 495.77

EVC 7412+02.32
ELEV 501.37

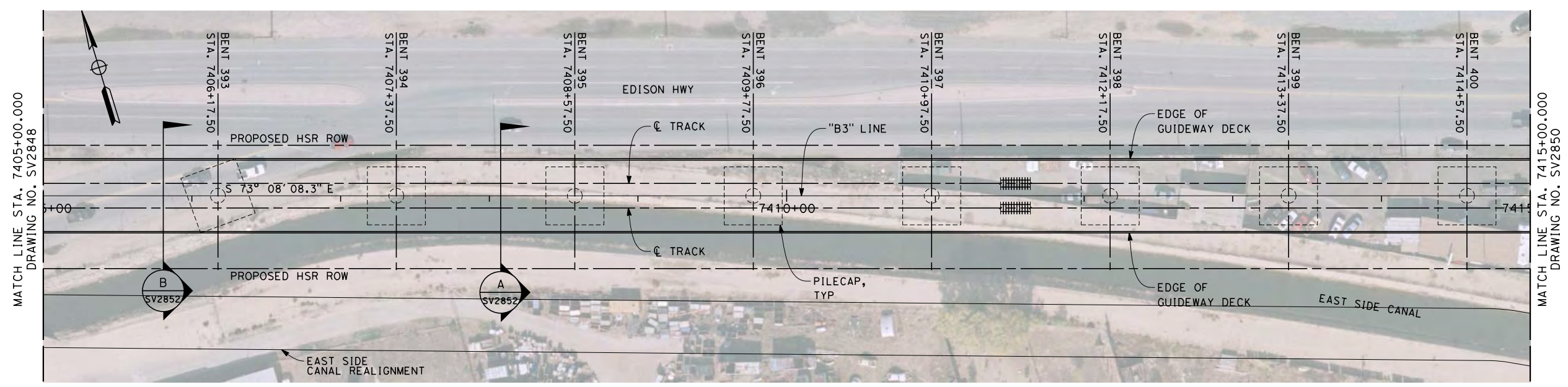
2000' VC
R/C = -0.036% /STA

TOP OF RAIL "B3" LINE
NO SCALE



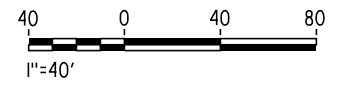
ELEVATION
SCALE 1" = 40'

- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU STEEL TRUSS - INSITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND INSITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



PLAN
SCALE 1" = 40'

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



12/20/2013 5:53:34 PM c:\pwworking\hmm\external\frank.palermo01-ar.com\dms71888\FB-SV-2849-B3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2849

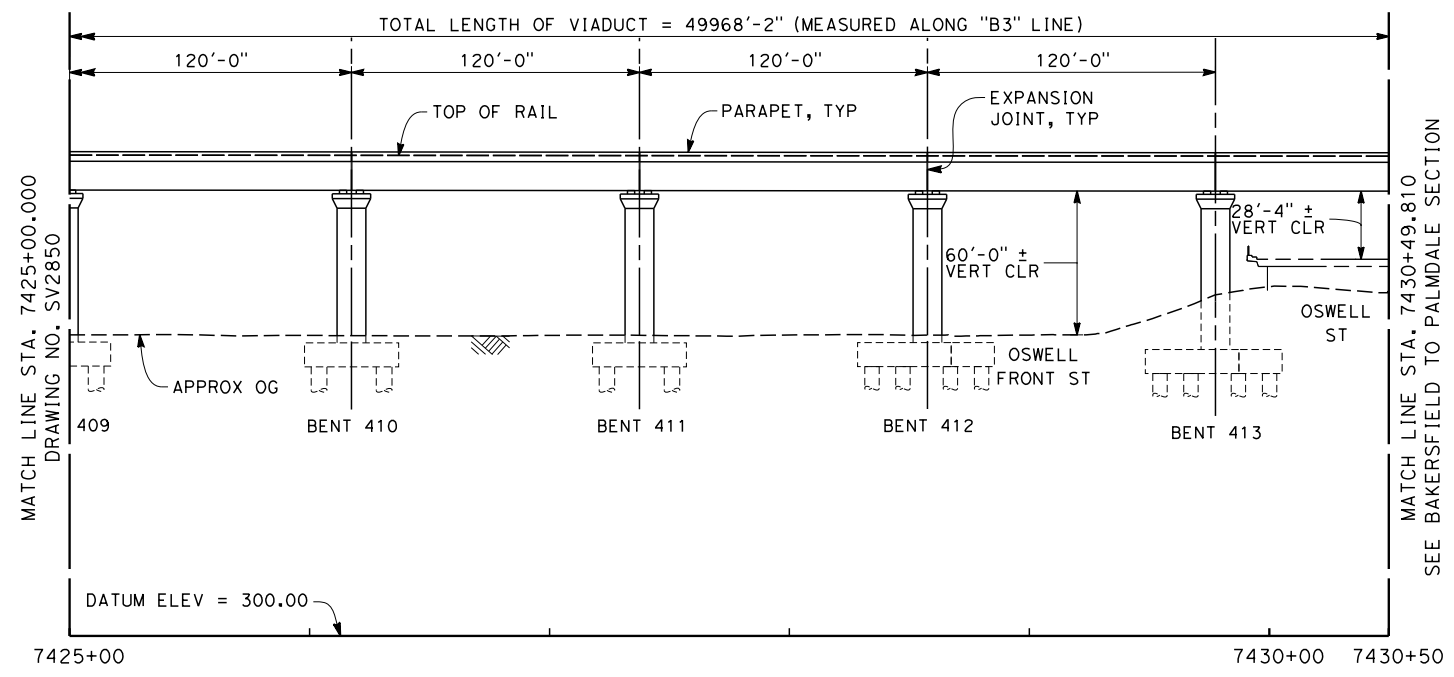
SCALE
AS SHOWN

SHEET NO.
50 OF 57

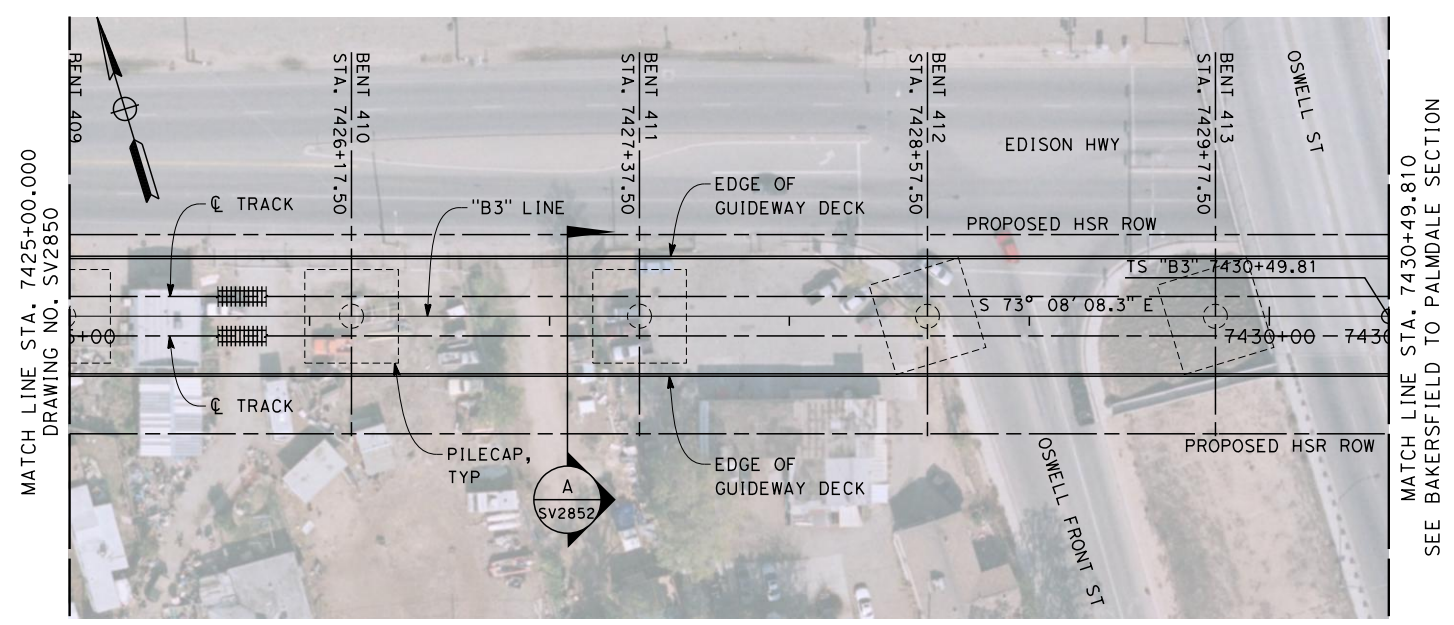
EVC 7412+02.32
ELEV 501.37

-0.080 %

TOP OF RAIL "B3" LINE
NO SCALE



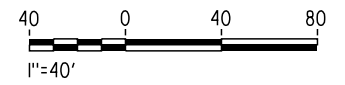
ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

- NOTES**
1. NOT ALL PILES SHOWN
 2. PILE LENGTH TO BE DETERMINED
 3. SUPERSTRUCTURE CONSTRUCTION, UON
 - SIMPLE SPANS - MSS OR FLPM
 - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
 - STEEL TRUSS - IN-SITU, SLID OR LAUNCHED
 - ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
 4. UTILITY LOCATIONS TO BE DETERMINED
 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

- LEGEND:**
- ① STRUCTURE APPROACH SLAB
 - ② RETAINING WALL
 - * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER

DRAWN BY
D. ORIZA

CHECKED BY
A. ARMSTRONG

IN CHARGE
R. COFFIN

DATE
03/19/14

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



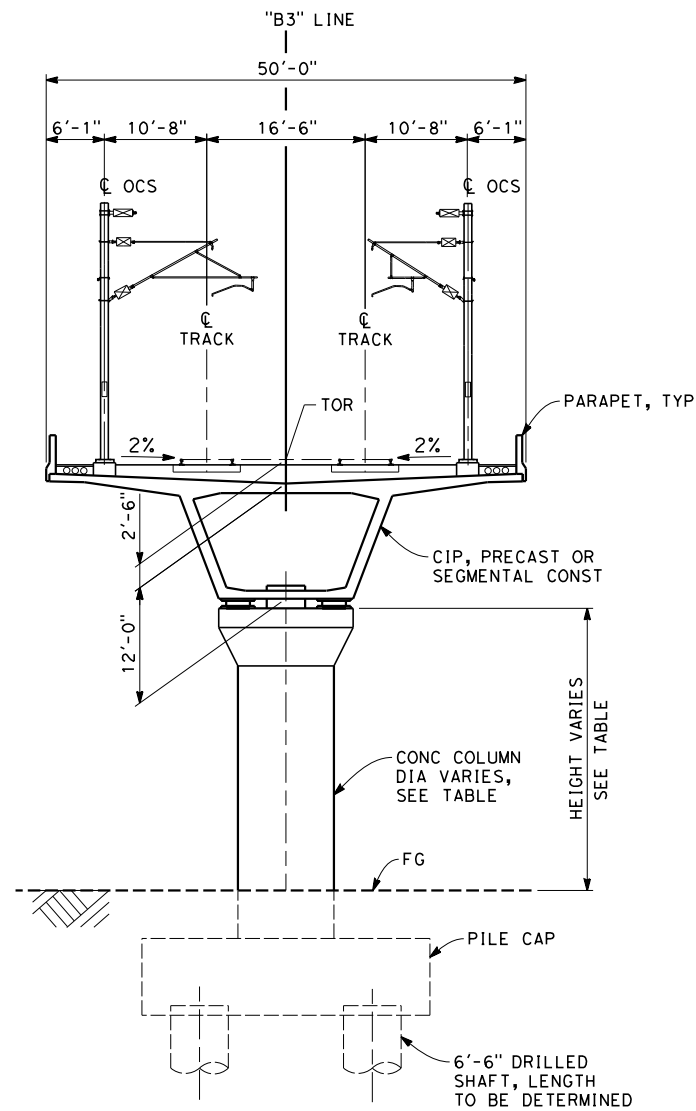
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.
HSR 06-0003

DRAWING NO.
SV2851

SCALE
AS SHOWN

SHEET NO.
52 OF 57

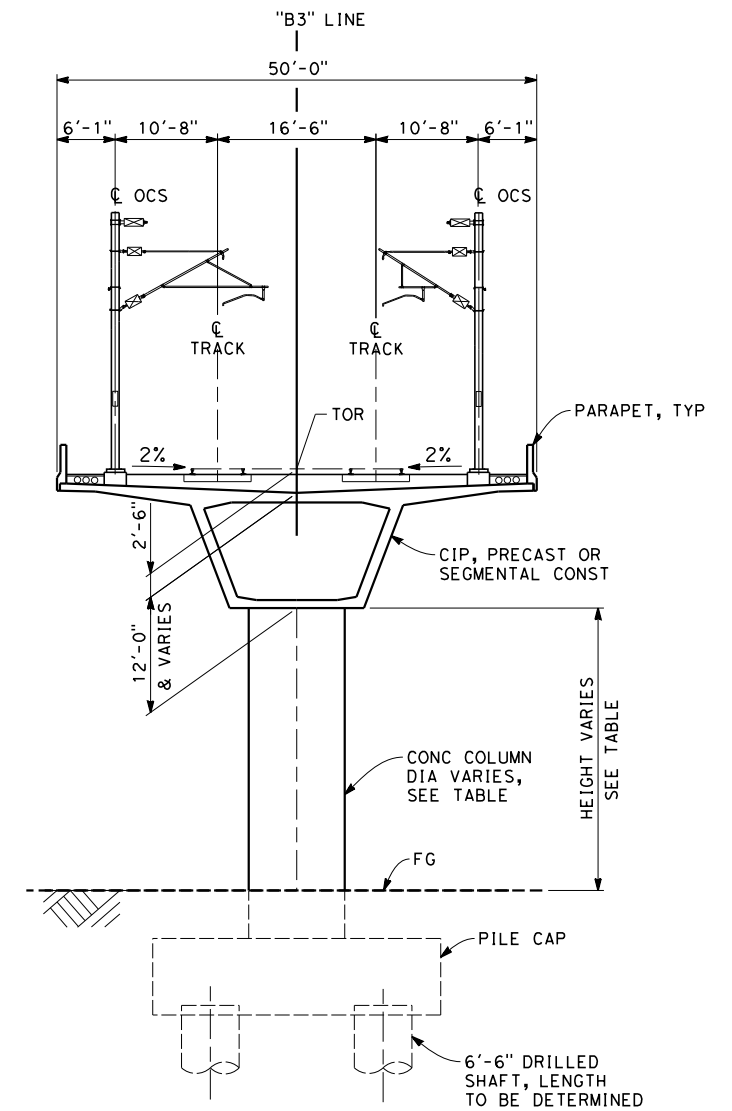


SECTION A

SCALE: 1"=10'

STA 6930+70.00 THROUGH 6943+71.50	STA 7149+97.00 THROUGH 7159+59.00
STA 6946+93.50 THROUGH 6998+55.00	STA 7163+77.50 THROUGH 7207+20.50
STA 7002+95.00 THROUGH 7010+13.50	STA 7215+67.50 THROUGH 7218+97.50
STA 7024+15.00 THROUGH 7054+15.00	STA 7223+07.50 THROUGH 7245+37.50
STA 7055+33.50 THROUGH 7057+75.00	STA 7249+57.50 THROUGH 7250+77.50
STA 7058+95.00 THROUGH 7077+65.00	STA 7301+07.50 THROUGH 7346+57.50
STA 7081+85.00 THROUGH 7082+85.00	STA 7352+57.50 THROUGH 7403+17.50
STA 7083+85.00 THROUGH 7095+66.50	STA 7407+37.50 THROUGH 7430+49.81
STA 7118+97.50 THROUGH 7145.39.00	

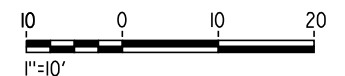
COLUMN DIAMETERS	
HEIGHT TO SOFFIT	DIAMETER
0-20	8 FT
20-40	10 FT
40-50	12 FT
50-60	15 FT
60-80	20 FT
80-100	25 FT



SECTION B

SCALE: 1"=10'

STA 6998+55.00 THROUGH 7002+95.00
STA 7077+63.00 THROUGH 7081+85.00
STA 7145+39.00 THROUGH 7149+79.00
STA 7159+59.00 THROUGH 7163+79.00
STA 7214+47.50 THROUGH 7215+67.50
STA 7218+97.50 THROUGH 7223+07.50
STA 7245+37.50 THROUGH 7249+57.50
STA 7403+17.50 THROUGH 7407+37.50



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY D. ORIZA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

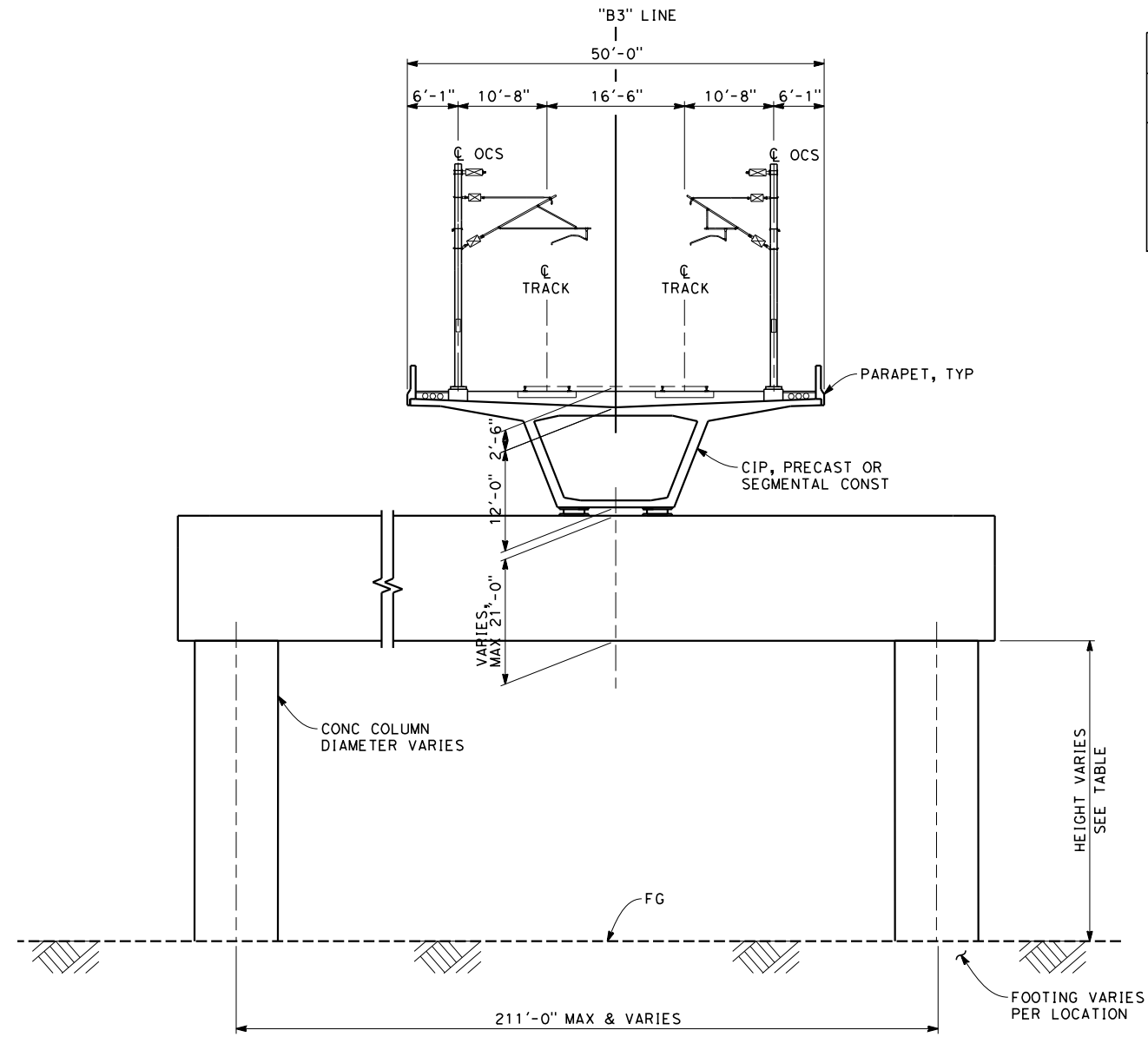


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2852
SCALE AS SHOWN
SHEET NO. 53 OF 57

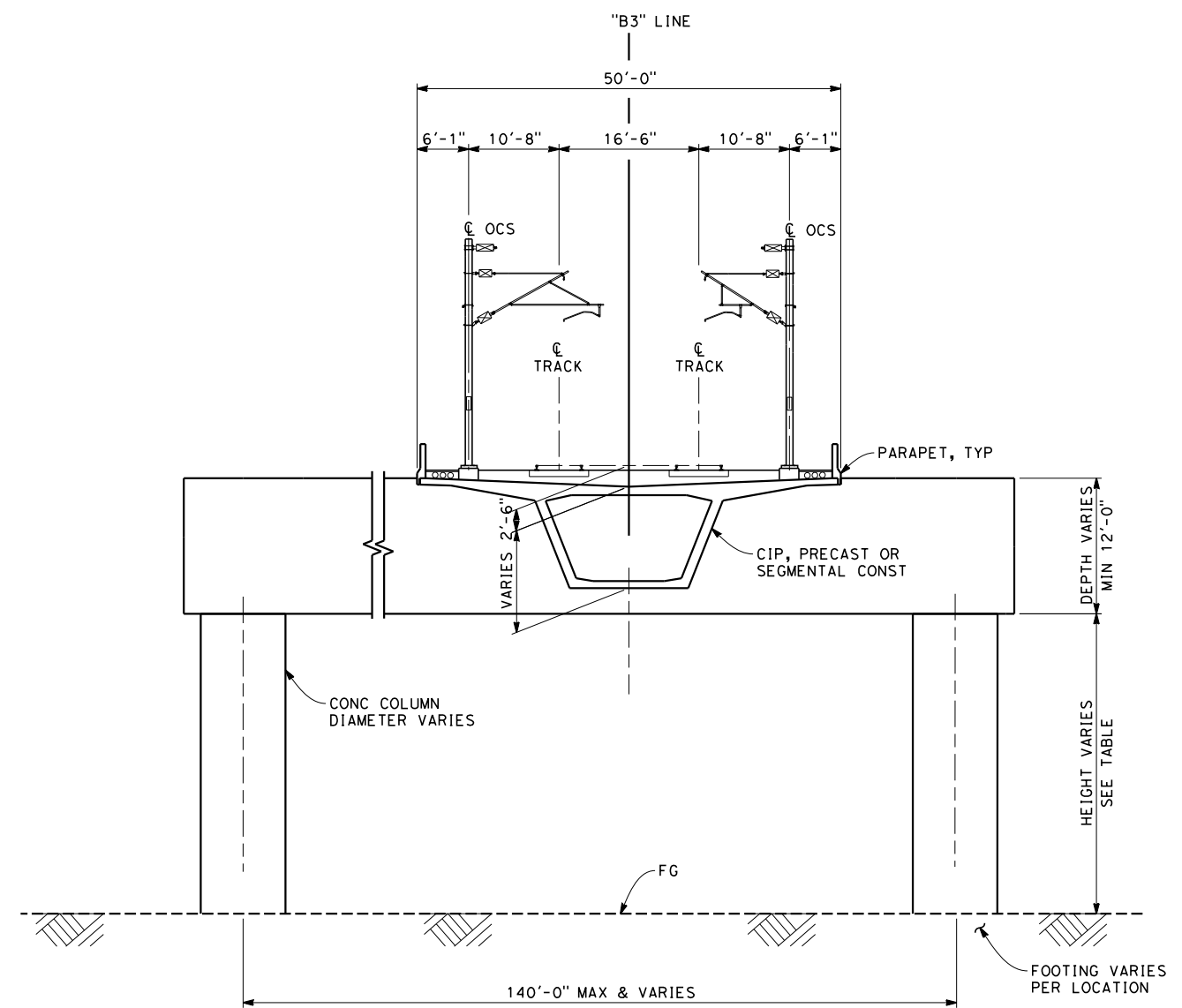
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SECTION C
SCALE: 1"=10'

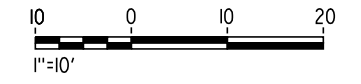
STA 7011+15.00 THROUGH 7013+13.50
 STA 7017+33.50 THROUGH 7024+15.00
 STA 7054+15.00 THROUGH 7055+33.50
 STA 7057+75.00 THROUGH 7058+95.00
 STA 7082+85.00 THROUGH 7083+85.00
 STA 7210+77.50 THROUGH 7213+17.50

COLUMN DIAMETERS	
HEIGHT TO SOFFIT	DIAMETER
0-20	8 FT
20-40	10 FT
40-50	12 FT
50-60	15 FT
60-80	20 FT
80-100	25 FT



SECTION D
SCALE: 1"=10'

STA 7013+13.50 THROUGH 7017+33.50
 STA 7346+57.50 THROUGH 7352+56.00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
 DRAWN BY
D. ORIZA
 CHECKED BY
A. ARMSTRONG
 IN CHARGE
R. COFFIN
 DATE
12/31/13

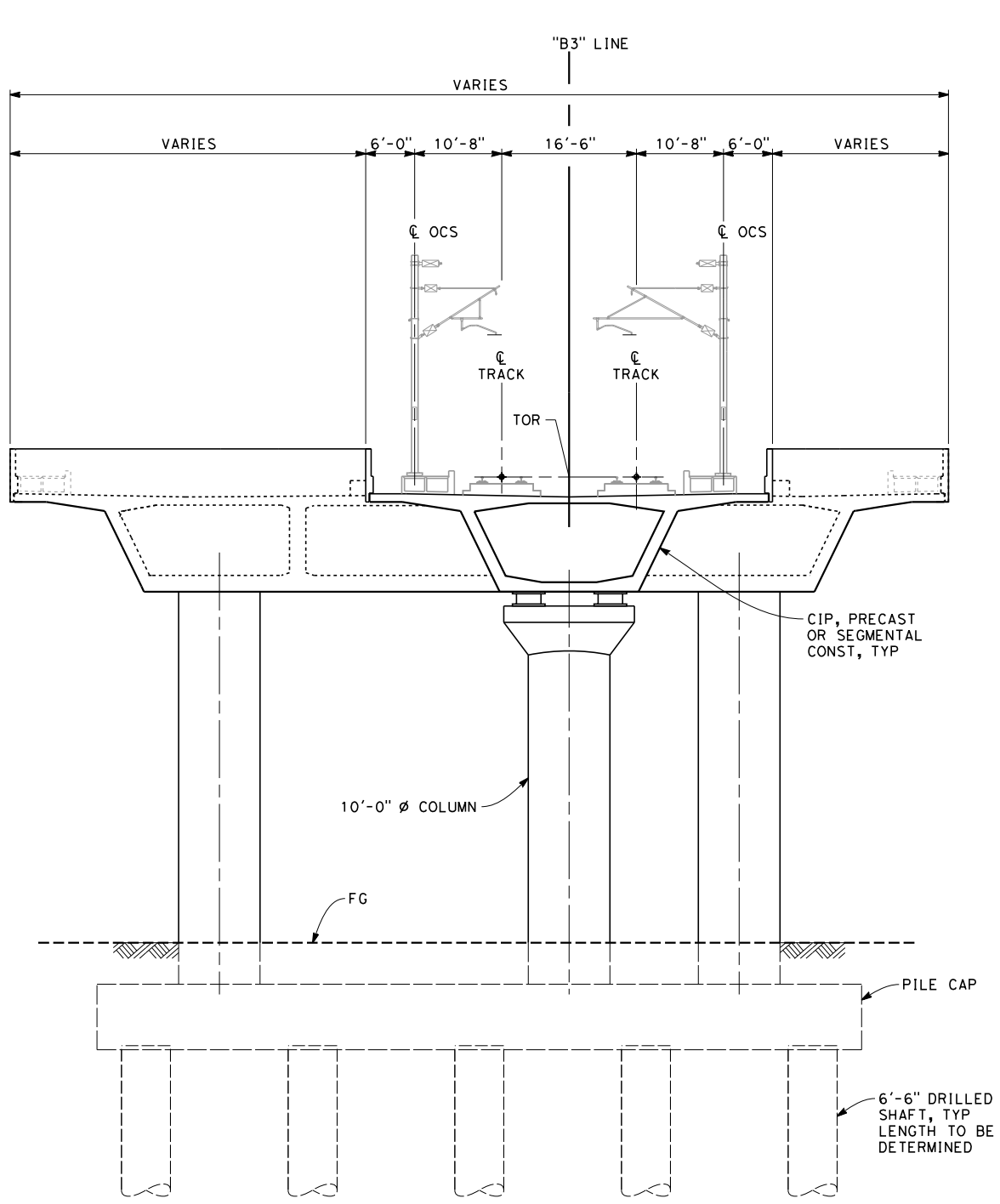
**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**

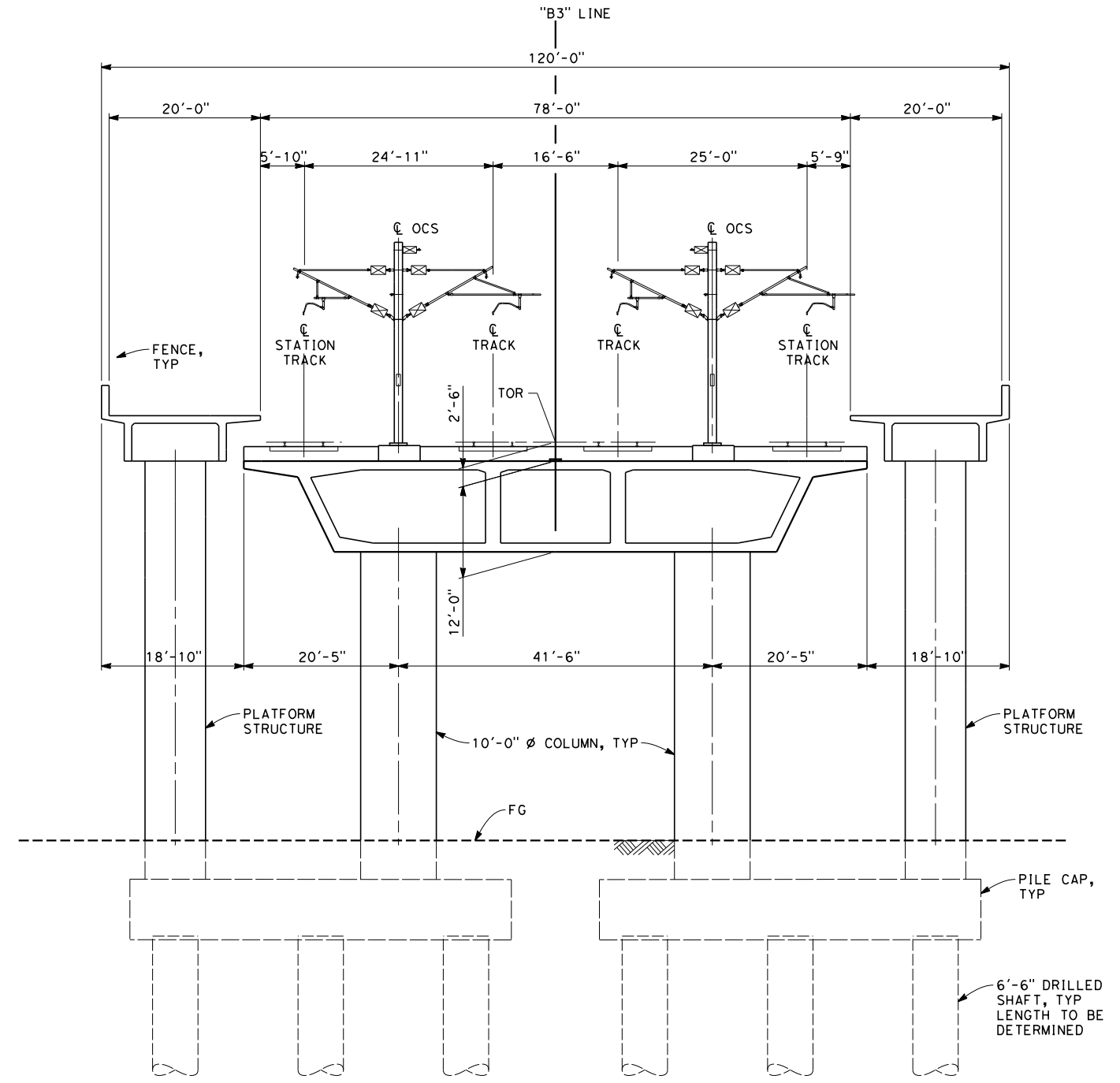


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 TYPICAL SECTIONS

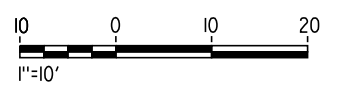
CONTRACT NO.
HSR 06-0003
 DRAWING NO.
SV2853
 SCALE
AS SHOWN
 SHEET NO.
54 OF 57



SECTION E
 SCALE: 1"=10'
 STA 7250+77.50 (BENT 259)
 STA 7301+07.50 (BENT 302)



SECTION F
 SCALE: 1"=10'
 STA 7262+77.50 THROUGH 7277+47.50



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 M. FISHER
 DRAWN BY
 D. ORIZA
 CHECKED BY
 A. ARMSTRONG
 IN CHARGE
 R. COFFIN
 DATE
 12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

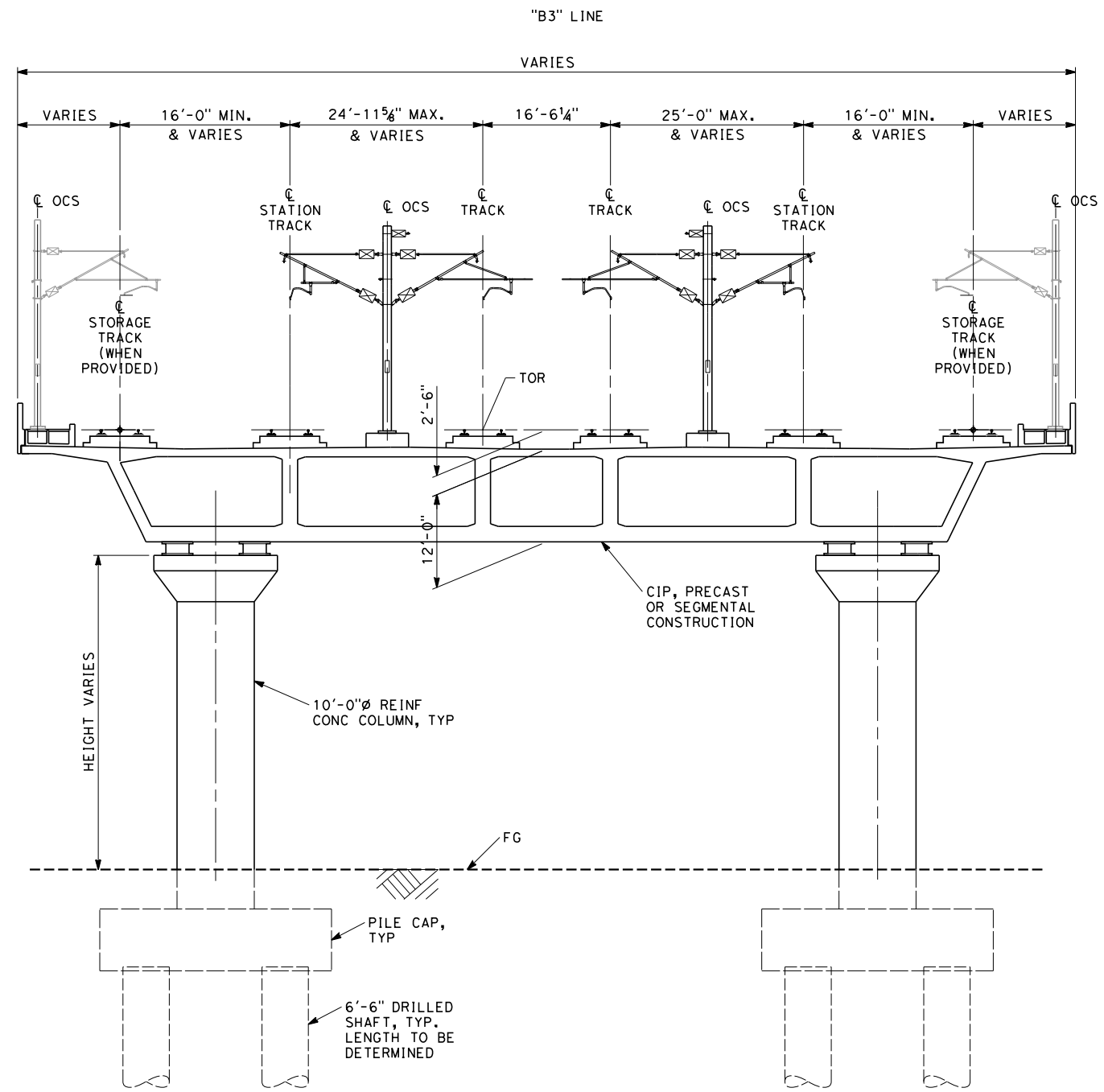
**NOT FOR
 CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 TYPICAL SECTIONS

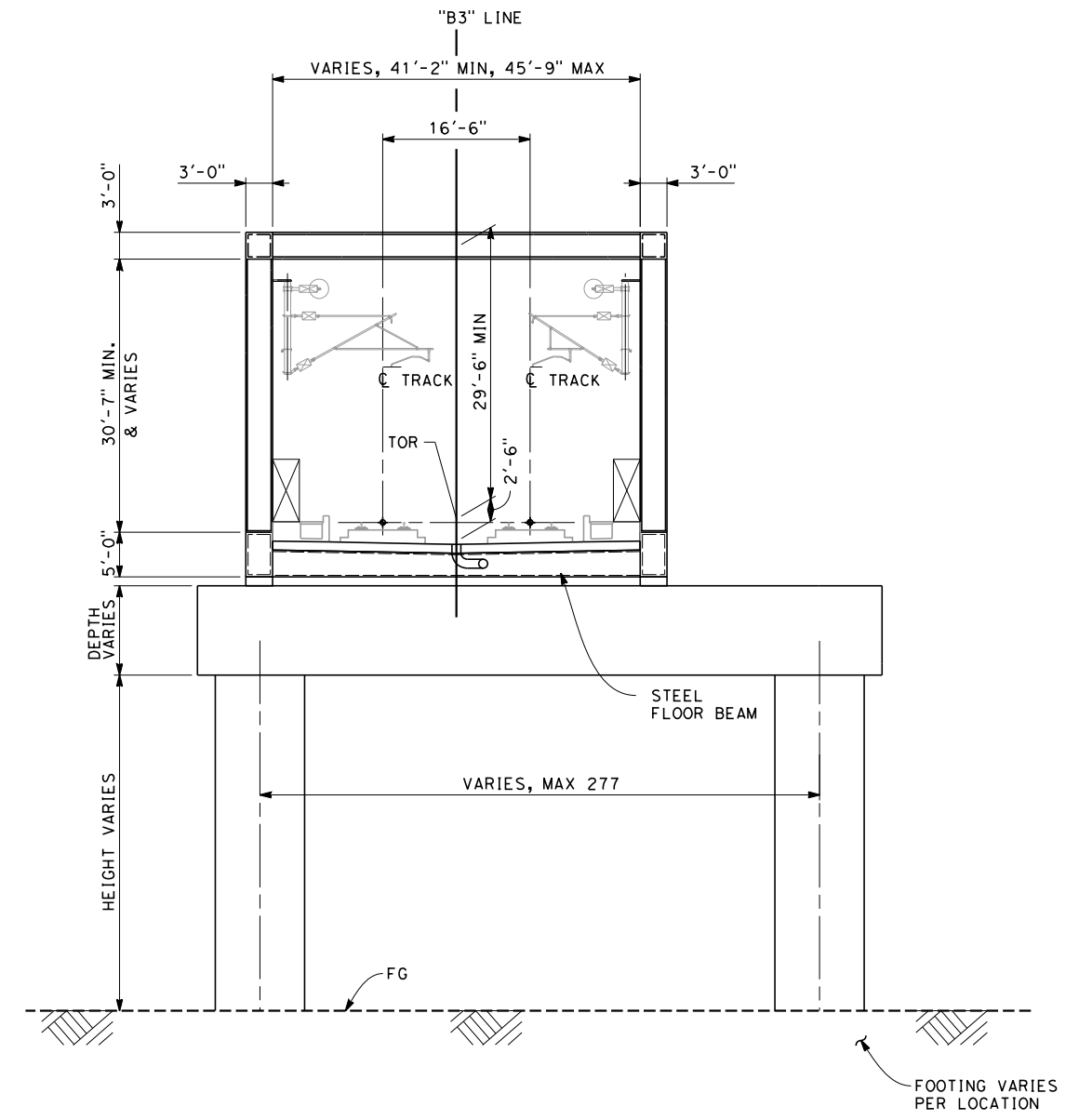
CONTRACT NO.
 HSR 06-0003
 DRAWING NO.
 SV2854
 SCALE
 AS SHOWN
 SHEET NO.
 55 OF 57

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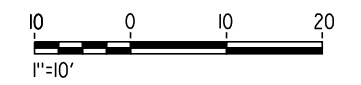
SECTION H
SCALE: 1"=10'

STA 7250+77.50 THROUGH 7262+77.50
STA 7277+47.50 THROUGH 7301+07.50



SECTION I
SCALE: 1"=10'

STA 7095+66.50 THROUGH 7118+97.50
STA 7207+20.50 THROUGH 7210+77.50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. FISHER
DRAWN BY
D. ORIZA
CHECKED BY
A. ARMSTRONG
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

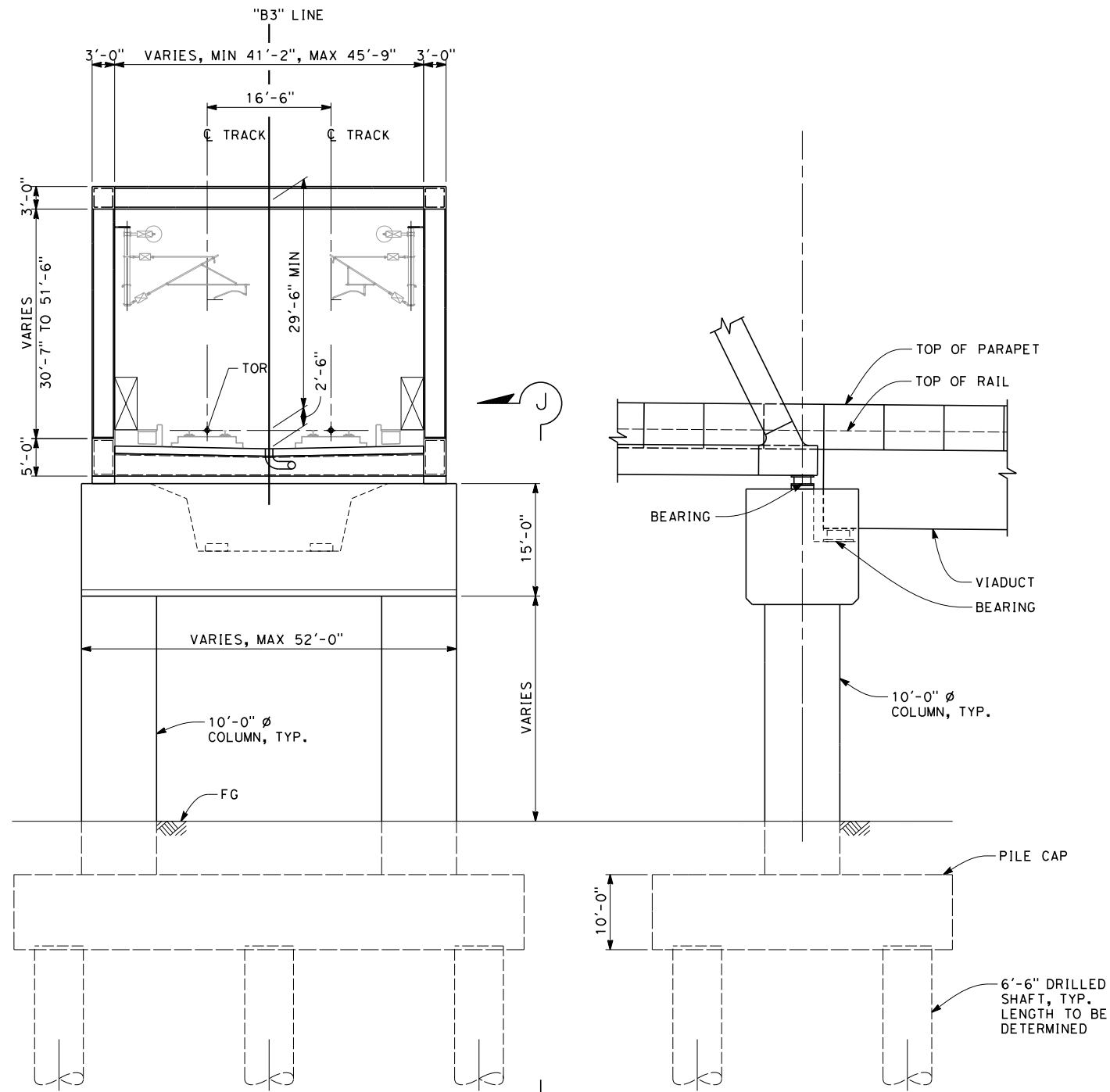
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BAKERSFIELD URBAN SUBSECTION
ALIGNMENT B3
BAKERSFIELD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SV2855
SCALE
AS SHOWN
SHEET NO.
56 OF 57

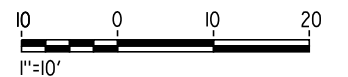
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 12/20/2013 5:55:00 PM
 frank.palermo



SECTION J
 SCALE: 1"=10'

SECTION J-J
 SCALE: 1"=10'

STA 6943+71.50 (BENT 12)
 STA 7095+66.50 (BENT 141)
 STA 7118+97.50 (BENT 149)
 STA 7207+20.50 (BENT 225)



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY D. ORIZA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
 DESIGN SUBMISSION**

**NOT FOR
 CONSTRUCTION**



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

BAKERSFIELD URBAN SUBSECTION
 ALIGNMENT B3
 BAKERSFIELD VIADUCT
 TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2856
SCALE AS SHOWN
SHEET NO. 57 OF 57