



**FILED**

1-28-16  
04:59 PM

# **Exhibit B**

## **Project Drawings**

A1601013

### **Exhibit B3 – Roadway Drawings**

#### **Exhibit B3-1 – Avenue 7**

p:\xp\p02pw\int01.parsons.com\California State\Documents\CHSTP CP1\05 - Design\CADD\Sheet Files\Civil\08 - Avenue 7\CP1-CV-X001-A07.dgn  
p007367B 8/20/2015 7:38:32 AM CHSTP.tbl CHSR\_PDF\_full\_black.plt c:\pw\_working\california\p007367b\dm517265\CP1-CV-X001-A07.dgn

PAVEMENT SECTIONS

- 1
- 0.40' HMA-A

0.45' CLASS 2 AB

PAVEMENT SECTION APPLICABLE WHEN THE UPPER 4 FEET OF NEW EMBANKMENT MATERIALS (MEASURED FROM THE GRADING PLANE) POSSESS A MINIMUM R-VALUE OF 50 AND A PLASTICITY INDEX OF LESS THAN 12%. WHERE SUBGRADE DOES NOT MEET THESE REQUIREMENTS, SEE GEOTECHNICAL ENGINEERING DESIGN REPORT AVE 7 OVERHEAD (NEW) FOR RECOMMENDATIONS.

NOTES:

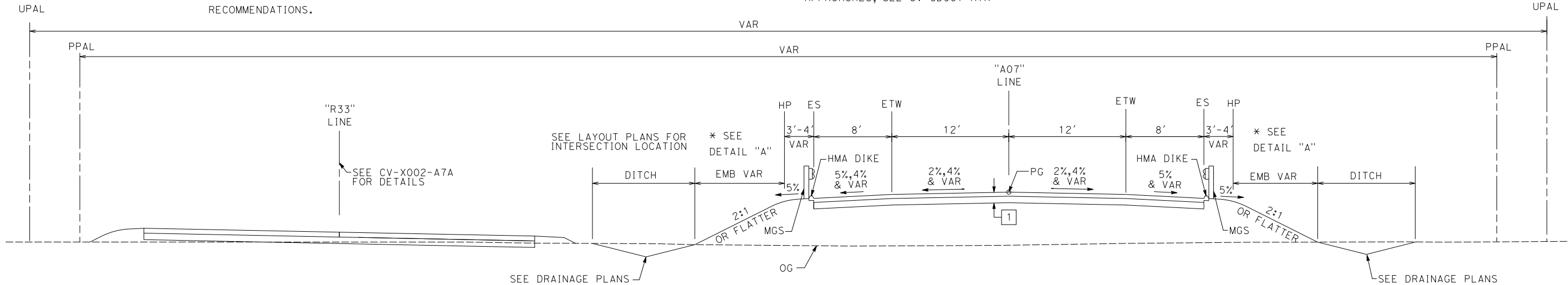
1. SEE DRAWING ST-K1100-A07 FOR TYPICAL SECTION BB STA. 17+97.81 TO EB STA. 19+93.81.

2. FOR EXISTING PAVEMENT MILLING AND OVERLAY LOCATIONS, SEE LAYOUT PLANS

3. FOR SHOULDER SLOPE TRANSITION AT BRIDGE APPROACHES, SEE CV-CD001-A7A

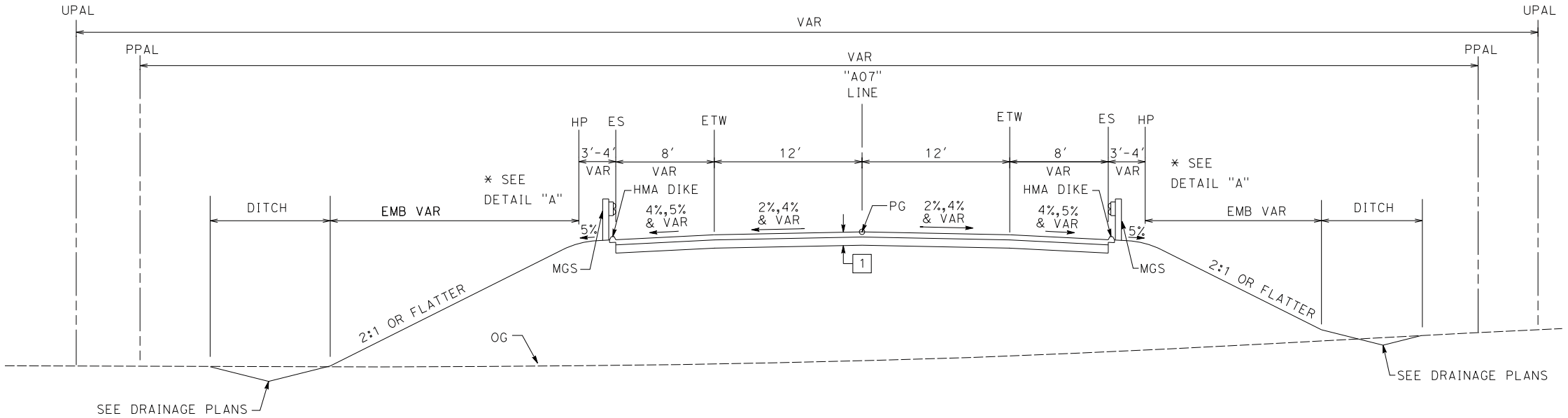
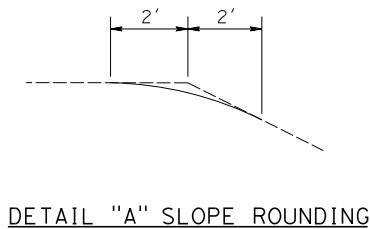
4. SEE LAYOUT PLANS FOR MGS AND DIKE LIMITS

5. EARTHWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MADERA COUNTY SPECIFICATIONS, COUNTY OF MADERA SPECIAL PROVISIONS AND THE CONSTRUCTION RECOMMENDATIONS PRESENTED IN THE AVENUE 7 GEOTECHNICAL ENGINEERING DESIGN REPORT



AVENUE 7

STA. 19+93.81 TO STA. 32+05.00



AVENUE 7

STA. 11+73.12 TO STA. 17+97.81  
STA. 32+05.00 TO STA. 44+00.00

| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/15          |



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 7 ATC GRADE SEPARATION  
TYPICAL SECTIONS  
SHEET 1 OF 4

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-X001-A7A |
| SCALE<br>1" = 50'          |
| SHEET NO.<br>3             |

Exhibit B3-1.1



DESIGN CRITERIA:

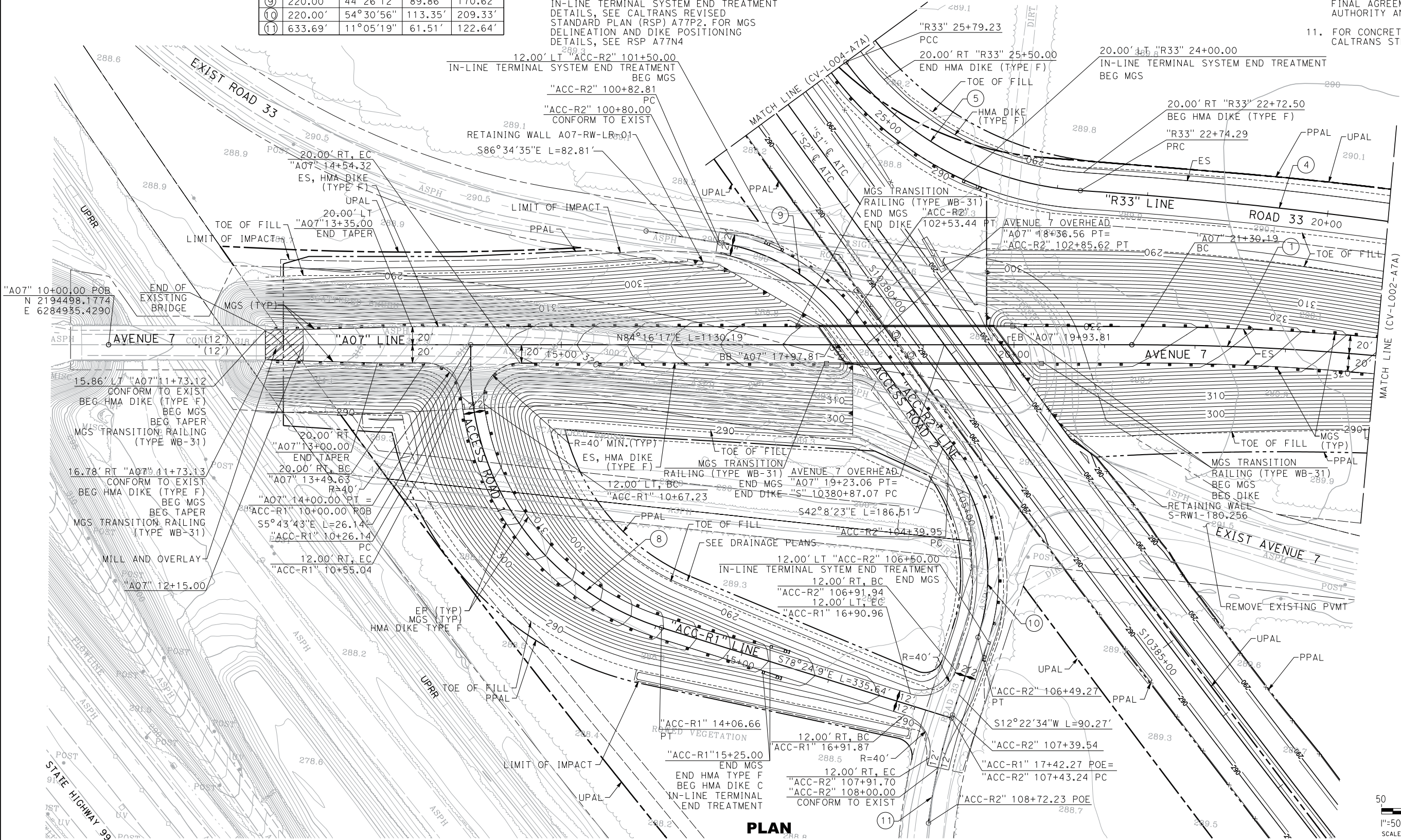
"A07" AVENUE 7  
DESIGN SPEED: 50 MPH  
CLASSIFICATION: RURAL MINOR ARTERIAL

CURVE DATA

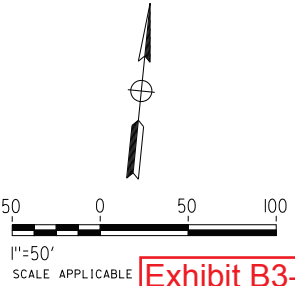
| NO. | R        | Δ         | T       | L        |
|-----|----------|-----------|---------|----------|
| ①   | 3000.00' | 17°48'23" | 469.96' | 932.34'  |
| ④   | 5000.00' | 12°21'12" | 541.11' | 1078.03' |
| ⑤   | 350.00'  | 49°55'07" | 162.91' | 304.94'  |
| ⑧   | 300.00'  | 72°40'26" | 220.67' | 380.52'  |
| ⑨   | 220.00'  | 44°26'12" | 89.86'  | 170.62'  |
| ⑩   | 220.00'  | 54°30'56" | 113.35' | 209.33'  |
| ⑪   | 633.69'  | 11°05'19" | 61.51'  | 122.64'  |

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS, & LEGEND SEE CALTRANS STD PLANS A10A TO A10H.
2. FOR HOT MIX ASPHALT DIKE DETAILS, SEE CALTRANS STD PLAN A87B & A77N4.
3. FOR MIDWEST GUARDRAIL SYSTEM (MGS) IN-LINE TERMINAL SYSTEM END TREATMENT DETAILS, SEE CALTRANS REVISED STANDARD PLAN (RSP) A77P2. FOR MGS DELINEATION AND DIKE POSITIONING DETAILS, SEE RSP A77N4.
4. FOR MGS TRANSITION RAILING AND CONNECTION DETAILS TO BRIDGE RAILING AND CONCRETE BARRIER, SEE CALTRANS STD PLAN A77U1, A77U2 & A77U4.
5. FOR DRIVEWAY DETAILS, SEE COUNTY OF MADERA STD PLANS ST-25 AND ST-27.
6. FOR RETAINING WALL DETAILS, SEE DRAWINGS CV-RW001-A7A TO CV-RW002-A7A.
7. FOR DRAINAGE DETAILS, SEE DRAWINGS CV-D001-A7A TO CV-D005-A7A, & CV-DD001-A7A TO CV-DD002-A7A.
8. FOR PAVEMENT DELINEATION & SIGNING DETAILS, SEE DRAWINGS CV-PD001-A7A TO CV-PD003-A7A.
9. FOR STRUCTURE DETAILS, SEE DRAWING ST-K1100-A7A.
10. HST/MADERA COUNTY ROW TBD BASED ON FINAL AGREEMENT BETWEEN THE AUTHORITY AND MADERA COUNTY
11. FOR CONCRETE BARRIER DETAILS, SEE CALTRANS STD PLAN A76A AND A76B



PLAN



| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 06/05/15 | JM | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. MORTON  |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/15          |



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 7 ATC GRADE SEPARATION  
LAYOUT  
SHEET 1 OF 5

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-L001-A7A |
| SCALE<br>1" = 50'          |
| SHEET NO.<br>7             |

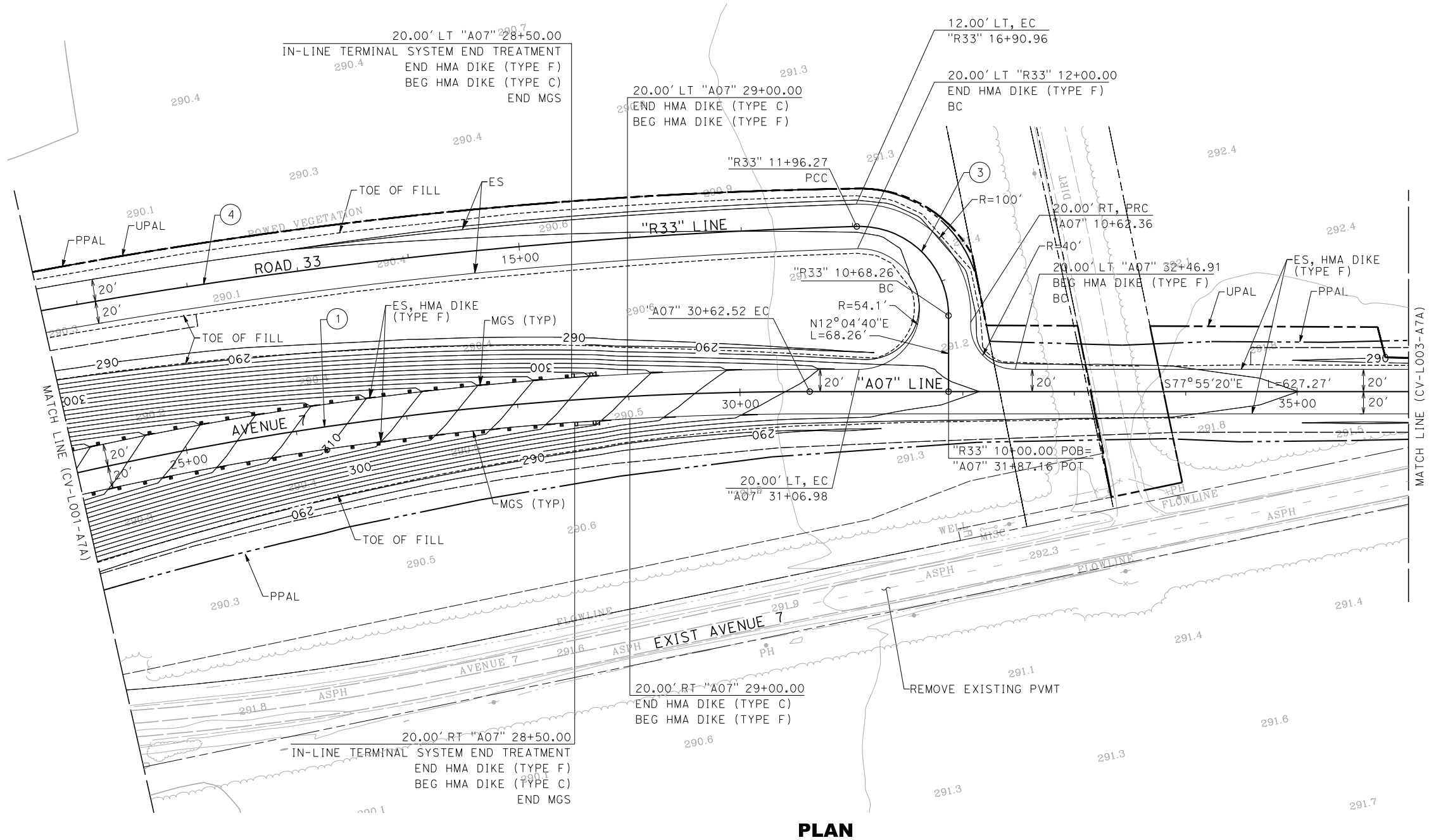
Exhibit B3-1.2



CURVE DATA

| NO. | R        | Δ         | T       | L        |
|-----|----------|-----------|---------|----------|
| ①   | 3000.00' | 17°48'23" | 469.96' | 932.34'  |
| ③   | 80.00'   | 91°40'52" | 82.38'  | 128.01'  |
| ④   | 5000.00' | 12°21'12" | 541.11' | 1078.03' |

NOTE:  
1. SEE DRAWING CV-L001-A7A FOR NOTES.



PLAN

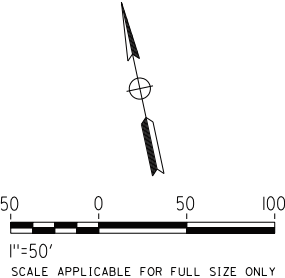


Exhibit B3-1.3

| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/15          |



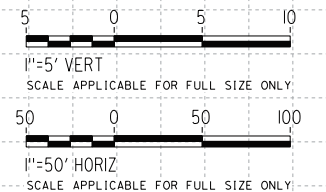
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 7 ATC GRADE SEPARATION  
LAYOUT  
SHEET 2 OF 5

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-L002-A7A |
| SCALE<br>1" = 50'          |
| SHEET NO.<br>8             |

"A07" AVENUE 7  
DESIGN SPEED: 50MPH (EXCEPT SAG CURVE AS SHOWN)  
CLASSIFICATION: RURAL MINOR ARTERIAL

1. FOR SYMBOLS, ABBREVIATIONS, AND  
LEGEND SEE CALTRANS STD PLANS A10A  
TO A10H.
2. FOR BRIDGE INFORMATION SEE  
STRUCTURAL PLANS.



| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     | DESIGNED BY<br>J. HANNA   |
|-----|----------|----|-----|-----|----------------------------|---------------------------|
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     | DRAWN BY<br>Y. SAIKALI    |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        | CHECKED BY<br>A. ADHIKARY |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN | IN CHARGE<br>M. COOPER    |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                | DATE                      |
|     |          |    |     |     |                            | 06/05/15                  |



**Tutor Perini**

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**ZACHRY**

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**PARSONS**  
*A joint venture*



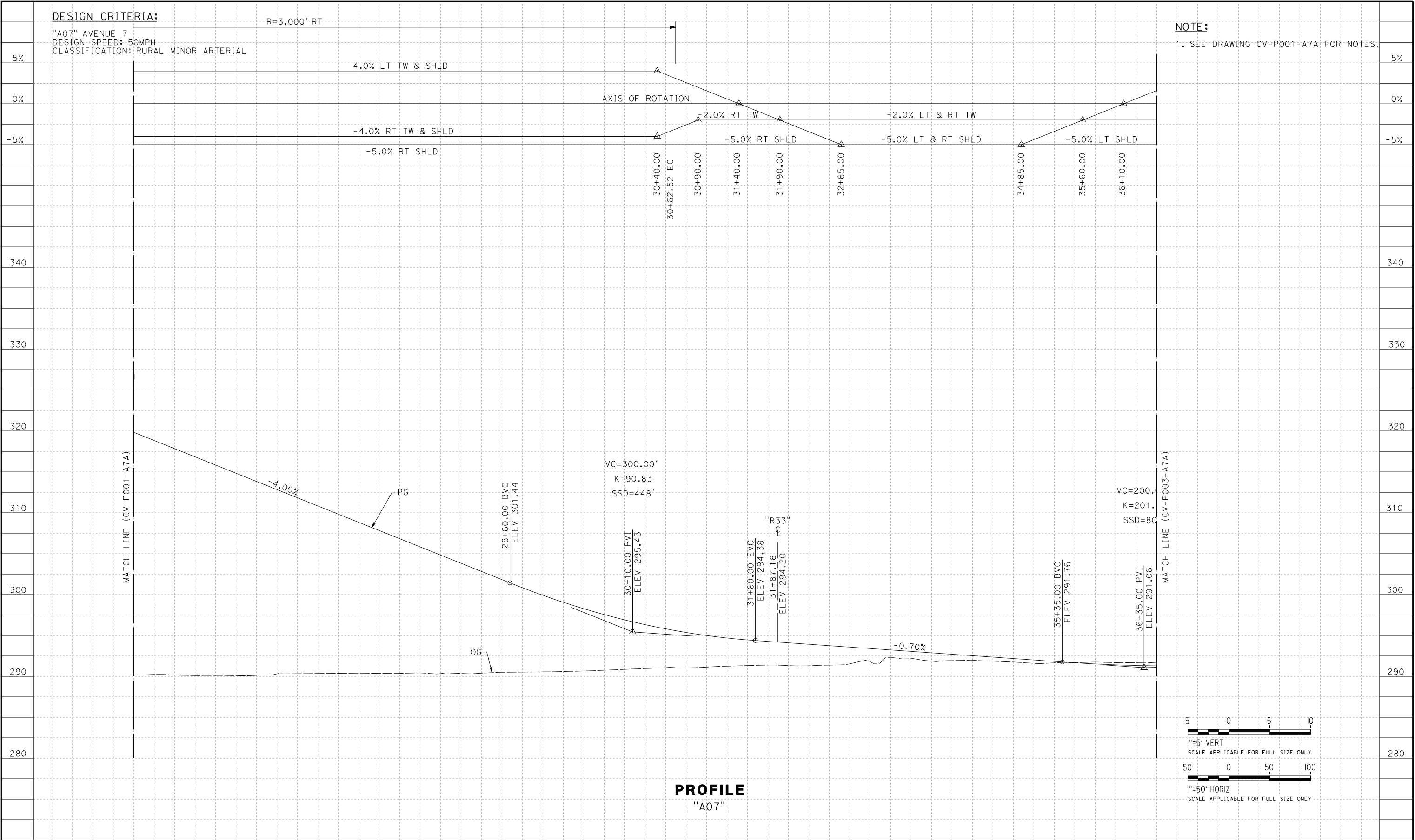
**CALIFORNIA**  
HIGH-SPEED RAIL AUTHORITY

### CALIFORNIA HIGH-SPEED TRAIN PROJECT CONSTRUCTION PACKAGE 1

AVENUE 7 ATC GRADE SEPARATION  
PROFILE  
SHEET 1 OF 8

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-P001-A7A |
| SCALE<br>AS SHOWN          |
| SHEET NO.<br>12            |

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| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| 0   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/15          |



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 7 ATC GRADE SEPARATION  
PROFILE  
SHEET 2 OF 8

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-P002-A7A |
| SCALE<br>AS SHOWN          |
| SHEET NO.<br>13            |

Exhibit B3-1.5

# **Exhibit B**

## **Project Drawings**

### **Exhibit B3 – Roadway Drawings**

#### **Exhibit B3-2 – Avenue 8**

p:\xpi\02\pwin\01.parsons.com\California State\Documents\CHSTP CP1\05 - Design\CADD\Sheet Files\Civil\07 - Avenue 8\CP1-CV-X001-A08.dgn  
CHSR\_PDF\_full\_black.plt c:\pw\_working\california\p007367b\dm\17266\CP1-CV-X001-A08.dgn  
8/13/2015 8:47:45 AM CHSTP.tbl

PAVEMENT SECTIONS

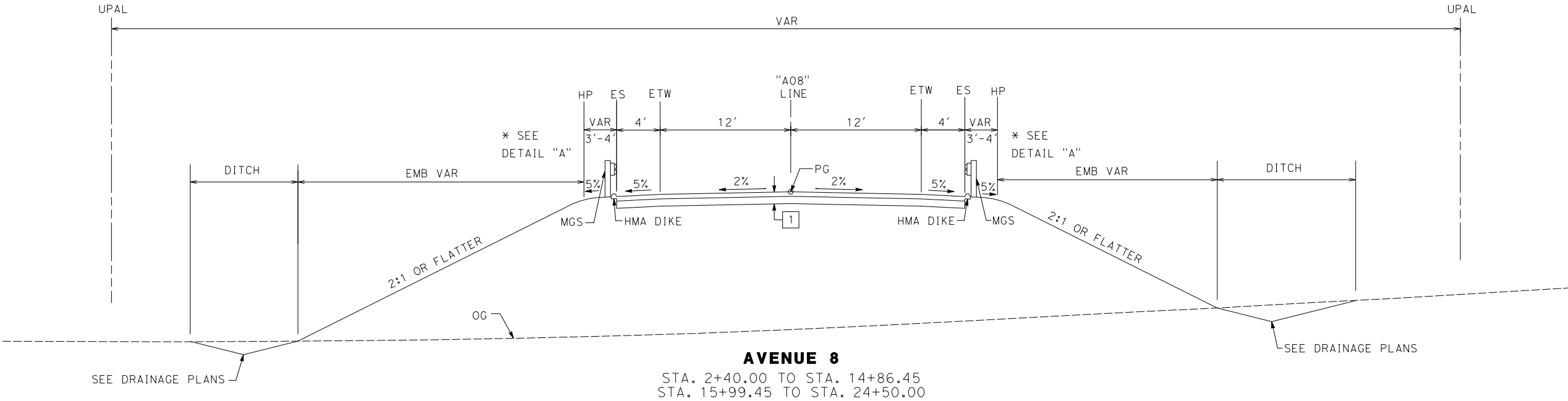
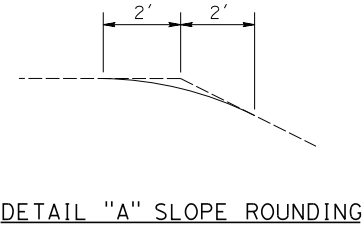
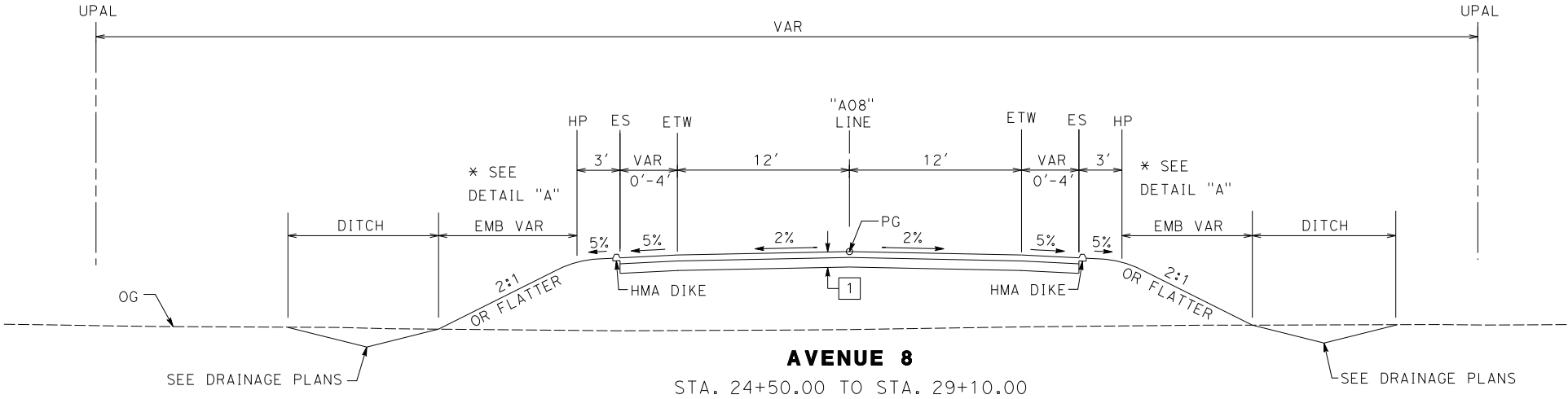
- 1
- 0.25' HMA-A

0.35' CLASS 2 AB

PAVEMENT SECTION APPLICABLE WHEN THE UPPER 4 FEET OF NEW EMBANKMENT MATERIALS (MEASURED FROM THE GRADING PLANE) POSSESS A MINIMUM R-VALUE OF 50 AND A PLASTICITY INDEX OF LESS THAN 12%. WHERE SUBGRADE DOES NOT MEET THESE REQUIREMENTS, SEE GEOTECHNICAL ENGINEERING DESIGN REPORT AVE 8 OVERHEAD (NEW) FOR RECOMMENDATIONS.

NOTE:

1. SEE STRUCTURES DRAWING ST-K3350-A8A FOR TYPICAL SECTION BB STA. 14+86.45 TO EB STA. 15+99.45.
2. FOR EXISTING PAVEMENT MILLING AND OVERLAY LOCATIONS, SEE LAYOUT PLANS
3. FOR SHOULDER SLOPE TRANSITION AT BRIDGE APPROACHES, SEE CV-CD001-A8A
4. SEE LAYOUT PLANS FOR MGS AND DIKE LIMITS
5. EARTHWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MADERA COUNTY SPECIFICATIONS, COUNTY OF MADERA SPECIAL PROVISIONS AND THE CONSTRUCTION RECOMMENDATIONS PRESENTED IN THE AVENUE 8 GEOTECHNICAL ENGINEERING DESIGN REPORT



| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/2015        |



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 8 ATC GRADE SEPARATION  
TYPICAL SECTIONS

Exhibit B3-2.1

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-X001-A8A |
| SCALE<br>NO SCALE          |
| SHEET NO.<br>3             |



DESIGN CRITERIA:

"A08" AVENUE 8  
DESIGN SPEED: 55MPH  
CLASSIFICATION: RURAL LOCAL STREET

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS, & LEGEND SEE CALTRANS STD PLANS A10A TO A10H.

2. FOR HOT MIX ASPHALT DIKE DETAILS, SEE CALTRANS STD PLAN A87B AND A77N4.

3. FOR MIDWEST GUARDRAIL SYSTEM (MGS) IN-LINE TERMINAL SYSTEM END TREATMENT DETAILS, SEE CALTRANS REVISED STANDARD PLAN (RSP) A77P2. FOR MGS DELINEATION AND DIKE POSITIONING DETAILS, SEE RSP A77N4.

4. FOR MGS TRANSITION RAILING AND CONNECTION DETAILS TO THE BRIDGE RAILING, SEE CALTRANS STD PLAN A77U4, A77U1 AND A77U2.
5. FOR DRIVEWAY DETAILS, SEE COUNTY OF MADERA STD PLANS ST-25 AND ST-27. 2.5" HMA OVER 6" AB.

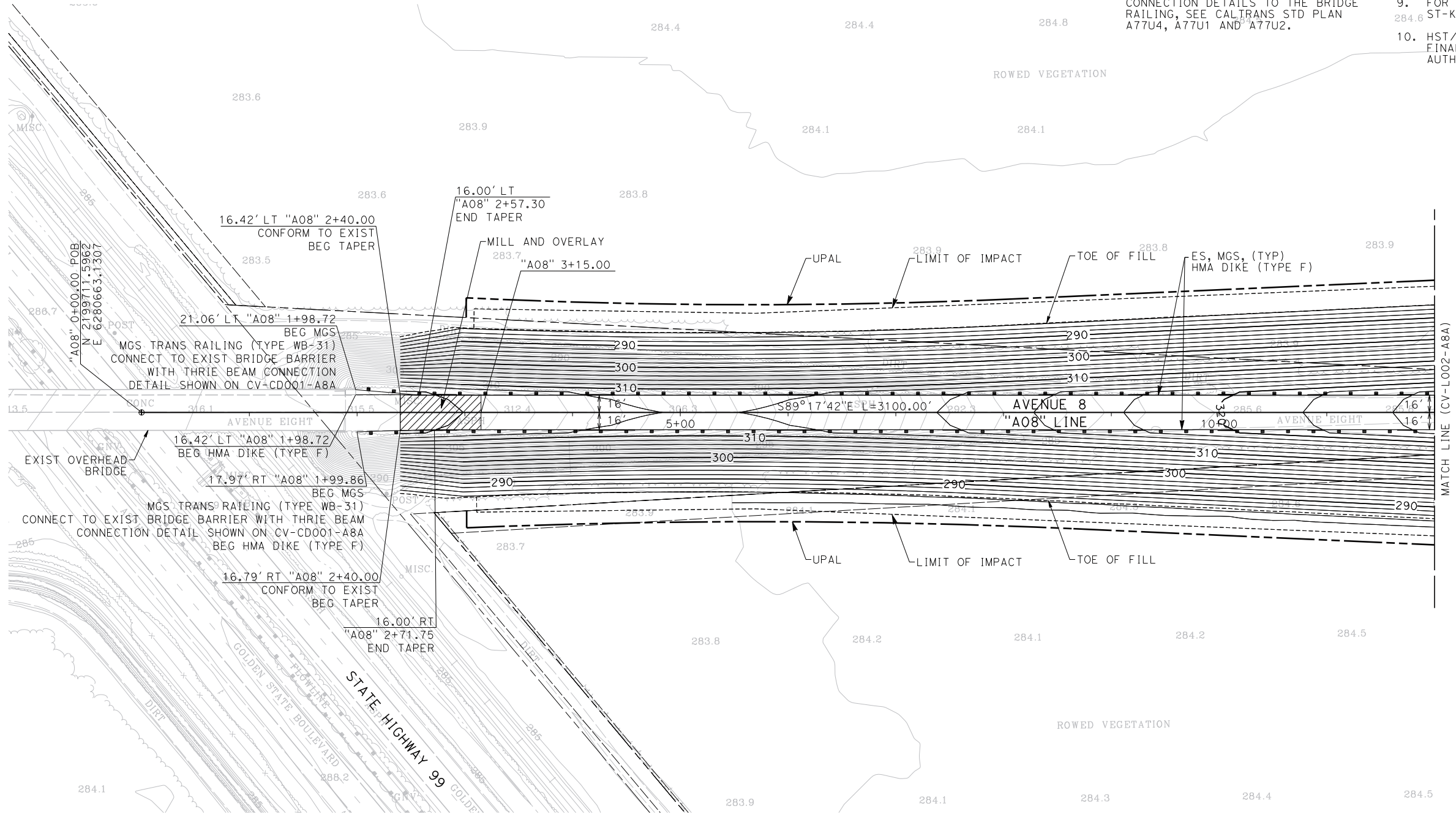
6. FOR RETAINING WALL DETAILS, SEE DRAWINGS CV-RW001-A8A TO CV-RW002-A8A.

7. FOR DRAINAGE DETAILS, SEE DRAWINGS CV-DD001-A8A TO CV-DD003-A8A, & CV-DP001-A8A TO CV-DD001-A8A.

8. FOR PAVEMENT DELINEATION & SIGNING DETAILS, SEE DRAWINGS CV-PD001-A8A TO CV-PD003-A8A.

9. FOR STRUCTURE DETAILS, SEE DRAWING ST-K1100-A8A.

10. HST/MADERA COUNTY ROW TBD BASED ON FINAL AGREEMENT BETWEEN THE AUTHORITY AND MADERA COUNTY



PLAN

| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/15          |



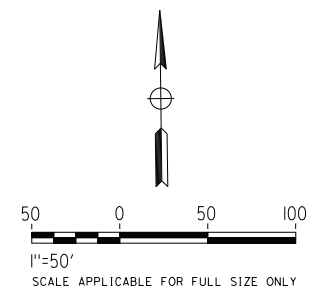
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 8 ATC GRADE SEPARATION  
LAYOUT  
SHEET 1 OF 3

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-L001-A8A |
| SCALE<br>1" = 50'          |
| SHEET NO.<br>4             |

Exhibit B3-2.2

SEE SHEET CV-L001-A8A FOR NOTES.



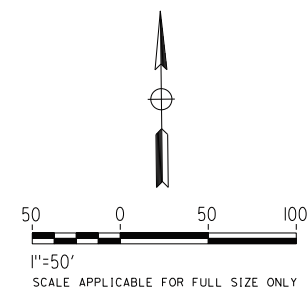
|     |          |    |     |     |                            |
|-----|----------|----|-----|-----|----------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA    |
| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |

**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 8 ATC GRADE SEPARATION  
LAYOUT  
SHEET 2 OF 3


|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-L002-A8A |
| SCALE<br>1" = 50'          |
| SHEET NO.<br>5             |


1. SEE SHEET CV-L001-A8A FOR NOTES.




## PLAN

|     |          |    |     |     |                           |
|-----|----------|----|-----|-----|---------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA   |
| O   | 06/05/15 | JH | AA  | MC  | DRAWN BY<br>Y. SAIKALI    |
| C   | 03/19/15 |    |     |     | CHECKED BY<br>A. ADHIKARY |
| B   | 03/06/15 |    |     |     | IN CHARGE<br>M. COOPER    |
| A   | 11/07/14 |    |     |     | DATE<br>06/05/15          |
| REV | DATE     | BY | CHK | APP | DESCRIPTION               |
|     |          |    |     |     |                           |







**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 8 ATC GRADE SEPARATION  
LAYOUT  
SHEET 3 OF 3

CONTRACT NO.  
HSR13-06

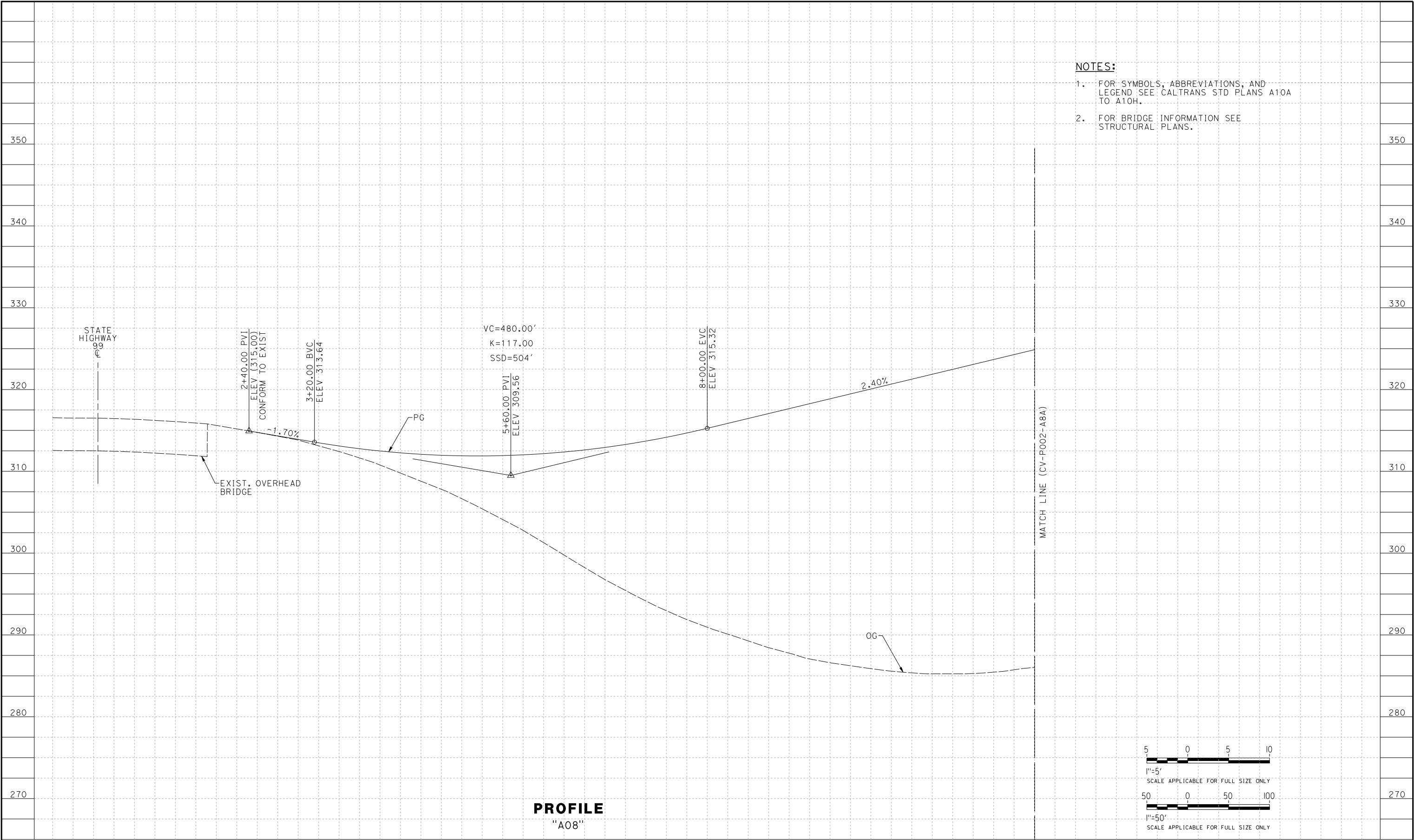
DRAWING NO.  
CV-L003-A8A

SCALE  
1" = 50'

SHEET NO.  
6

Exhibit B3-2.4

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|     |          |    |     |     |                            |
|-----|----------|----|-----|-----|----------------------------|
| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/2015        |

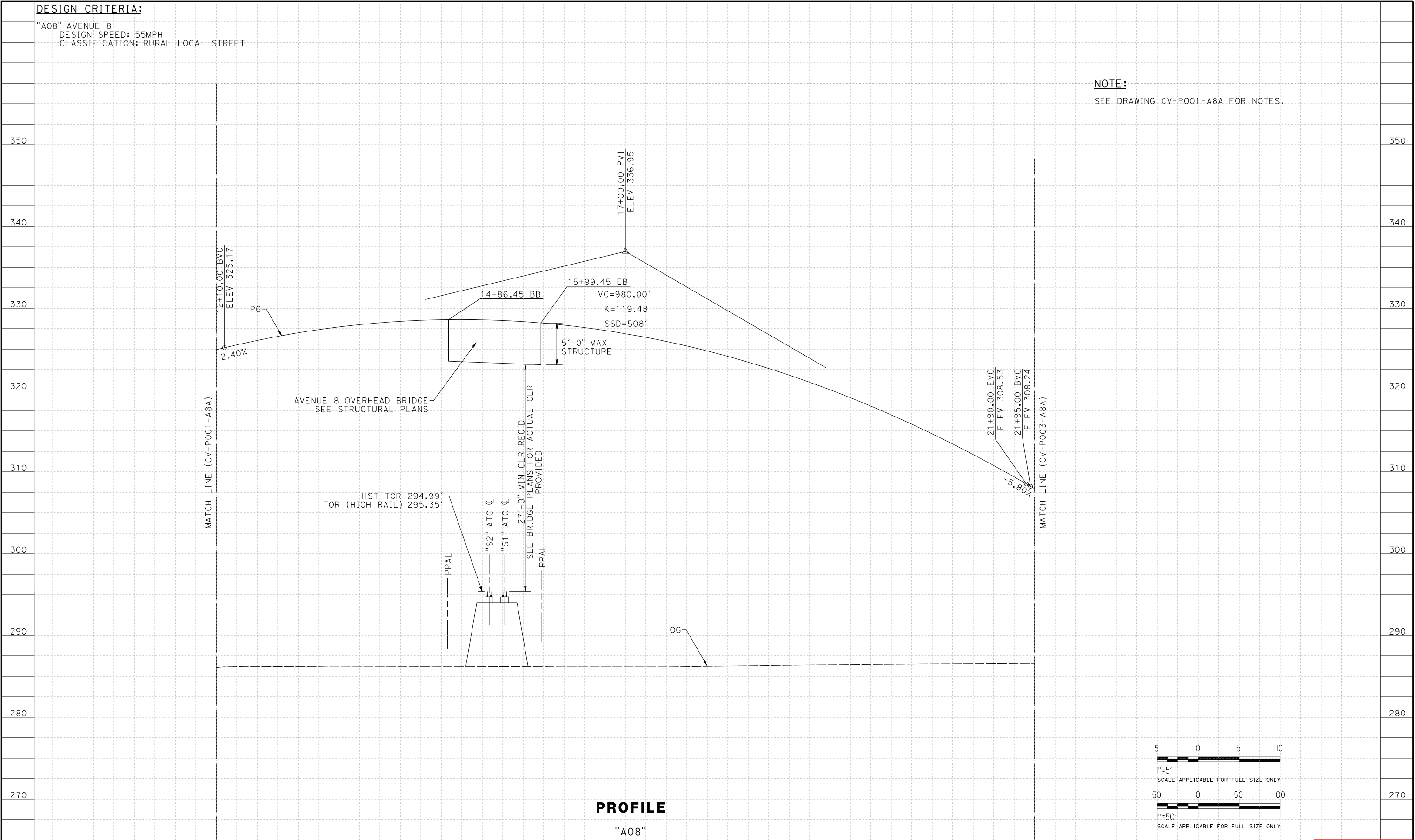


|   |  |                            |
|---|--|----------------------------|
| CALIFORNIA HIGH-SPEED TRAIN PROJECT<br>CONSTRUCTION PACKAGE 1 |  | CONTRACT NO.<br>HSR13-06   |
| AVENUE 8 ATC GRADE SEPARATION<br>PROFILE<br>SHEET 1 OF 3      |  | DRAWING NO.<br>CV-P001-A8A |
|   |  | SCALE<br>1"=50'            |
|   |  | SHEET NO.<br>7             |

Exhibit B3-2.5



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|     |          |    |     |     |                            |
|-----|----------|----|-----|-----|----------------------------|
| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/15          |

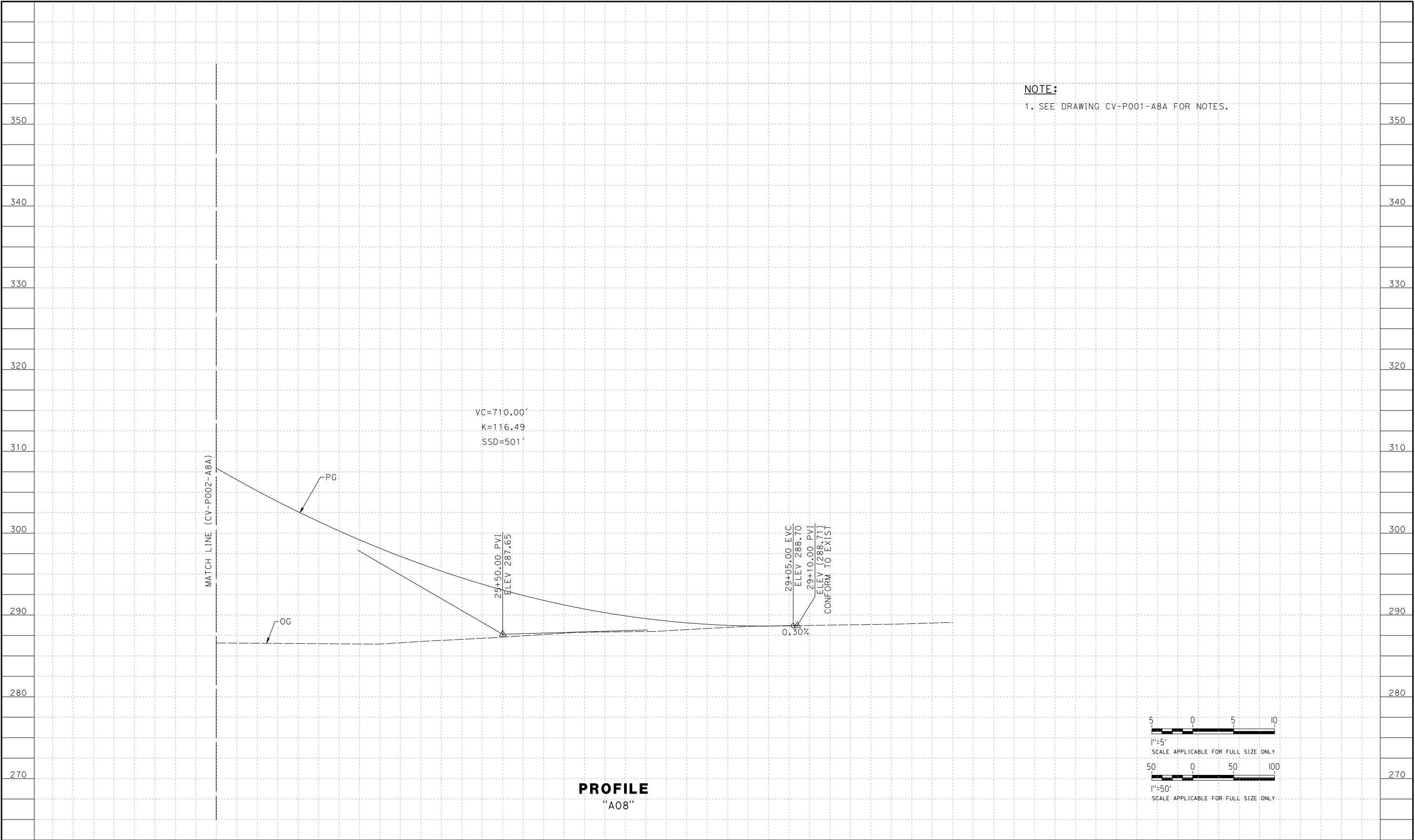


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1  
AVENUE 8 ATC GRADE SEPARATION  
PROFILE  
SHEET 2 OF 3

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-P002-A8A |
| SCALE<br>1"=50'            |
| SHEET NO.<br>8             |

Exhibit B3-2.6

pw:\xpi\02\pwin101.parsons.com\California State\Documents\CHSTP CP1\05 - Design\CADD\Sheet Files\Civil\07 - Avenue 8\CP1-CV-P003-A08.dgn  
p009957a 5/29/2015 12:10:35 PM CHSTP.tbl CHSR\_PDF\_full\_black.plt\c\pw\_working\california\p009957a\dms17266\CP1-CV-P003-A08.dgn



|     |          |    |     |     |                            |
|-----|----------|----|-----|-----|----------------------------|
| O   | 06/05/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 03/19/15 |    |     |     | DESIGN BASELINE REPORT     |
| B   | 03/06/15 |    |     |     | FINAL FACILITY PLAN        |
| A   | 11/07/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>06/05/15          |



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 8 ATC GRADE SEPARATION  
PROFILE  
SHEET 3 OF 3

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-P003-A8A |
| SCALE<br>1"=50'            |
| SHEET NO.<br>9             |

Exhibit B3-2.7

# **Exhibit B**

## **Project Drawings**

### **Exhibit B3 – Roadway Drawings**

#### **Exhibit B3-3 – Avenue 9**

PAVEMENT SECTIONS

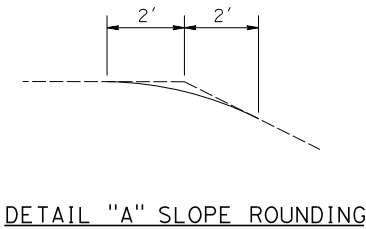
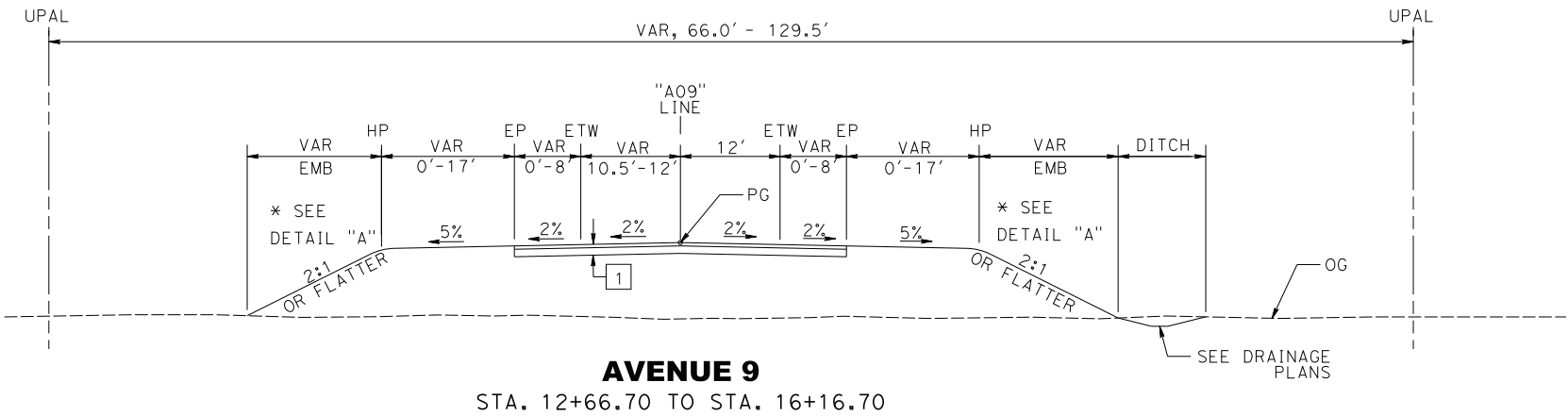
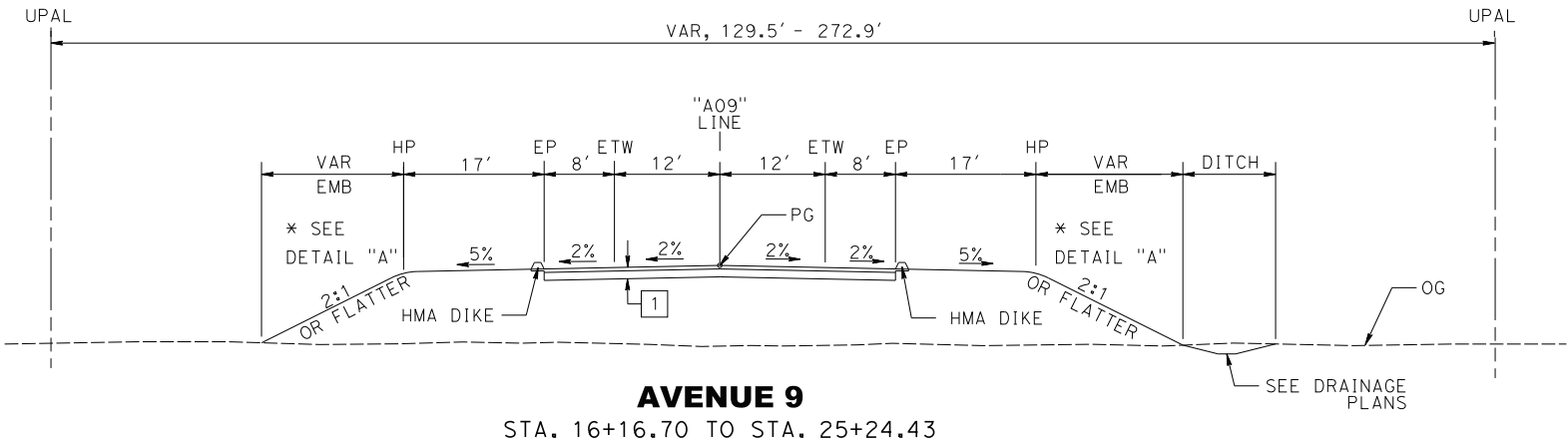
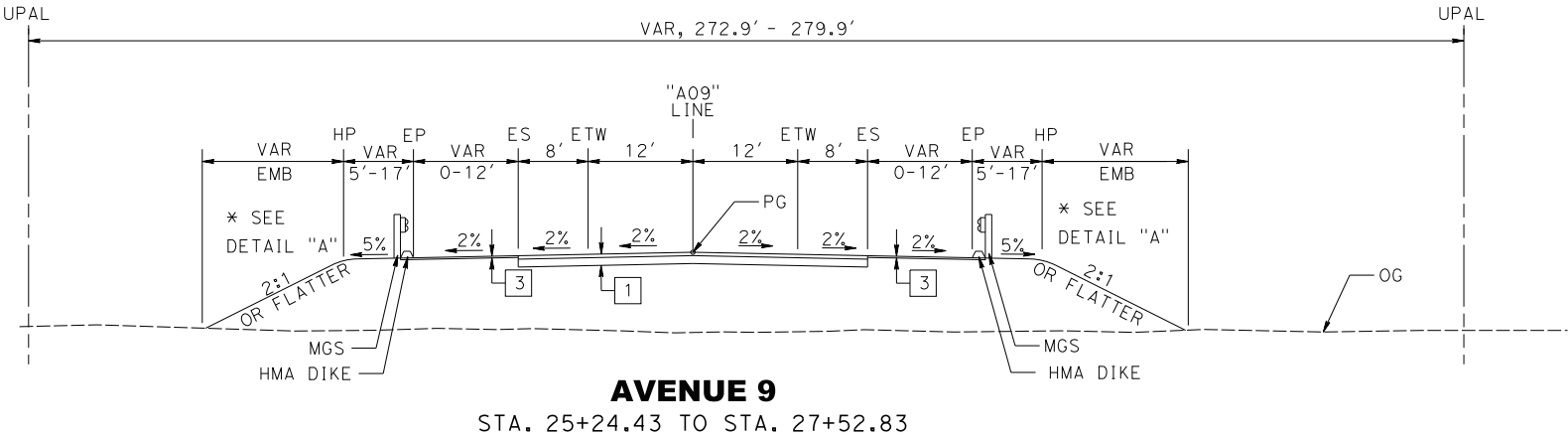
- 1

0.4' HMA-TYPE A  
0.45' Class 2 AB
- 2

0.4' HMA-TYPE A  
0.35' Class 2 AB
- 3

0.17' HMA-TYPE A

PAVEMENT SECTION APPLICABLE WHEN THE UPPER 4 FEET OF NEW EMBANKMENT MATERIALS (MEASURED FROM THE GRADING PLANE) POSSESS A MINIMUM R-VALUE OF 50 AND A PLASTICITY INDEX OF LESS THAN 12%. WHERE SUBGRADE DOES NOT MEET THESE REQUIREMENTS, SEE GEOTECHNICAL ENGINEERING DESIGN REPORT AVE 9 OVERHEAD (NEW) FOR RECOMMENDATIONS.



NOTES:

- SEE STRUCTURE DRAWINGS FOR TYPICAL SECTION STA. 27+52.83 TO STA. 29+29.83.
- FOR EXISTING PAVEMENT MILLING AND OVERLAY LOCATIONS, SEE LAYOUT PLANS.
- SEE LAYOUT PLANS FOR MGS AND DIKE LIMITS.
- EARTHWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MADERA COUNTY CONSTRUCTION SPECIFICATIONS, COUNTY OF MADERA SPECIAL PROVISIONS AND THE CONSTRUCTION RECOMMENDATIONS PRESENTED IN THE AVENUE 9 GEOTECHNICAL ENGINEERING DESIGN REPORT

Exhibit B3-3.1

| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 05/15/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 10/13/14 |    |     |     | FINAL FACILITY PLAN        |
| B   | 06/27/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/15/15          |



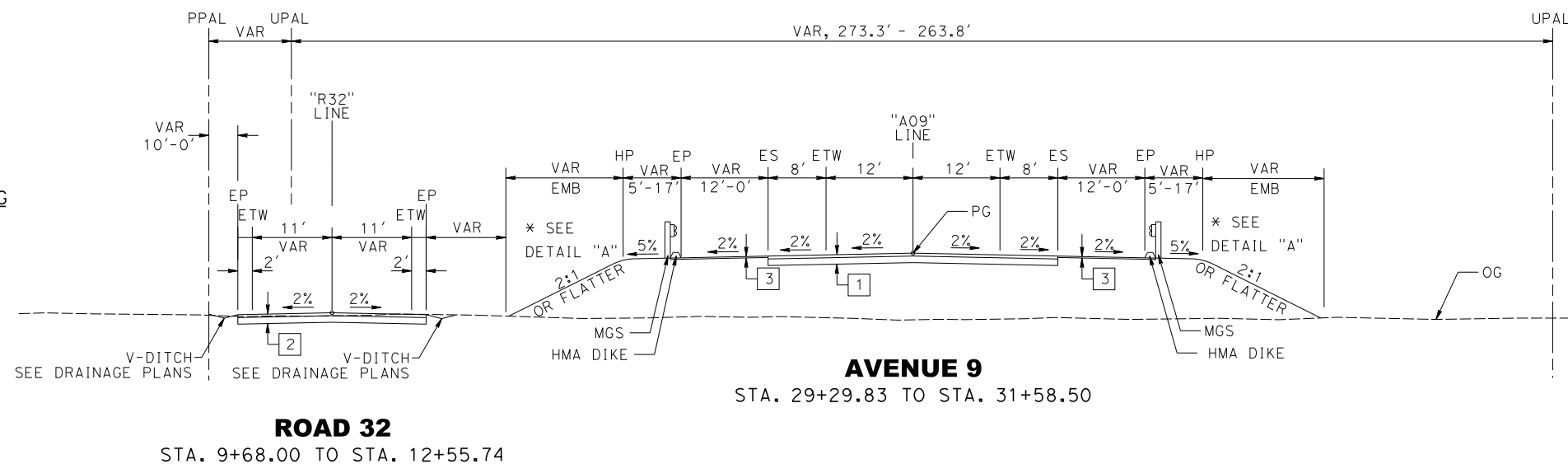
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 9 GRADE SEPARATION  
TYPICAL SECTIONS  
SHEET 1 OF 2

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-X001-A09 |
| SCALE<br>NO SCALE          |
| SHEET NO.<br>3             |



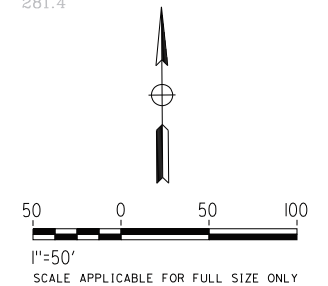
1. SEE DRAWING CV-X001-09  
FOR NOTES.



|              |             |
|--------------|-------------|
| CONTRACT NO. | HSR13-06    |
| DRAWING NO.  | CV-X002-A09 |
| SCALE        | NO SCALE    |
| SHEET NO.    | 4           |

"A09" AVENUE 9  
DESIGN SPEED: 55MPH  
CLASSIFICATION: RURAL ARTERIAL

1. FOR SYMBOLS, ABBREVIATIONS, & LEGEND  
SEE CALTRANS STD PLANS A10A TO A10H.
2. FOR HOT MIX ASPHALT DIKE DETAILS,  
SEE CALTRANS STD PLAN A87B & A77N4.
3. FOR MIDWEST GUARDRAIL SYSTEM  
DETAILS, SEE CALTRANS STD PLAN  
A77P2 & A77N4.
4. FOR MGS RAILING CONNECTION DETAILS  
TO BRIDGE RAILING, SEE CALTRANS STD  
PLAN A77U1, A77U2 & A77U4.
5. FOR DRIVEWAY DETAILS, SEE COUNTY OF  
MADERA STD PLANS ST-25 AND ST-27.  
2.5" HMA OVER 6" AB.
6. FOR RETAINING WALL DETAILS, SEE  
DRAWINGS CV-RW001-A09 TO  
CV-RW002-A09.
7. FOR DRAINAGE DETAILS, SEE DRAWINGS  
CV-D001-A09 TO CV-D003-A09, &  
CV-DD001-A09 TO CV-DP001-A09.
8. FOR PAVEMENT DELINEATION & SIGNING  
DETAILS, SEE DRAWINGS CV-PD001-A09  
TO CV-PD003-A09.
9. FOR STRUCTURE DETAILS, SEE DRAWING  
ST-K1100-A09.
10. HST/MADERA COUNTY ROW TBD BASED ON  
FINAL AGREEMENT BETWEEN THE  
AUTHORITY AND MADERA COUNTY.
11. FOR CONCRETE BARRIER DETAILS, SEE  
CALTRANS STD PLAN A76A AND A76B.








|     |          |    |     |     | DESIGNED BY<br>J. HANNA    |  | <br><br><br><i>A joint venture</i> |  | <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>CONSTRUCTION PACKAGE 1</b><br><br>AVENUE 9 GRADE SEPARATION<br>LAYOUT<br>SHEET 1 OF 3 | CONTRACT NO.<br>HSR13-06  |                            |
|-----|----------|----|-----|-----|----------------------------|---|---|---|--|---------------------------|----------------------------|
| O   | 05/15/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |   |   |   |  | DRAWN BY<br>Y. SAIKALI    | DRAWING NO.<br>CV-L001-A09 |
| C   | 10/13/14 |    |     |     | FINAL FACILITY PLAN        |   |   |   |  | CHECKED BY<br>A. ADHIKARY | SCALE<br>1"=50'            |
| B   | 06/27/14 |    |     |     | INTERMEDIATE FACILITY PLAN |   |   |   |  | IN CHARGE<br>M. COOPER    | SHEET NO.<br>5             |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     |   |   |   |  | DATE<br>05/15/15          |                            |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |   |   |   |  |                           |                            |

Exhibit B3-3.3

1. SEE DRAWING CV-L001-A09 FOR NOTES.

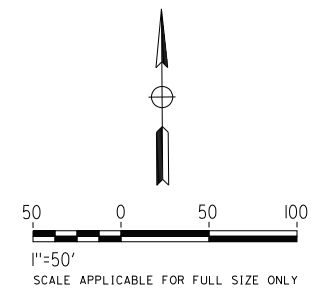





Exhibit B3-3.4

| NO. | R       | $\Delta$  | T      | L       |
|-----|---------|-----------|--------|---------|
| ①   | 53.00'  | 03°53'06" | 56.72' | 86.85'  |
| ②   | 800.00' | 81°26'56" | 59.81' | 119.39' |

|     |          |    |     |     |                           |
|-----|----------|----|-----|-----|---------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA   |
| O   | 05/15/15 | JH | AA  | MC  | DRAWN BY<br>Y. SAIKALI    |
| C   | 10/13/14 |    |     |     | CHECKED BY<br>A. ADHIKARY |
| B   | 06/27/14 |    |     |     | IN CHARGE<br>M. COOPER    |
| A   | 06/23/14 |    |     |     | DATE<br>05/15/15          |
| REV | DATE     | BY | CHK | APP | DESCRIPTION               |
|     |          |    |     |     |                           |







**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 9 GRADE SEPARATION  
LAYOUT  
SHEET 2 OF 3

CONTRACT NO.  
HSR13-06

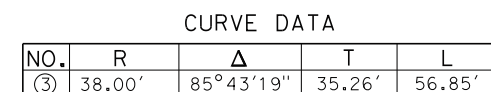
DRAWING NO.  
CV-L002-A09

SCALE  
1"=50'


SHEET NO.  
6


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1. SEE DRAWING CV-L001-A09 FOR NOTES.



|     |          |    |     |     |                           |
|-----|----------|----|-----|-----|---------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA   |
| O   | 05/15/15 | JH | AA  | MC  | DRAWN BY<br>Y. SAIKALI    |
| C   | 10/13/14 |    |     |     | CHECKED BY<br>A. ADHIKARY |
| B   | 06/27/14 |    |     |     | IN CHARGE<br>M. COOPER    |
| A   | 06/23/14 |    |     |     | DATE<br>05/15/15          |
| REV | DATE     | BY | CHK | APP | DESCRIPTION               |
|     |          |    |     |     |                           |







**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 9 GRADE SEPARATION  
LAYOUT  
SHEET 3 OF 3

CONTRACT NO.  
HSR13-06

DRAWING NO.  
CV-L003-A09

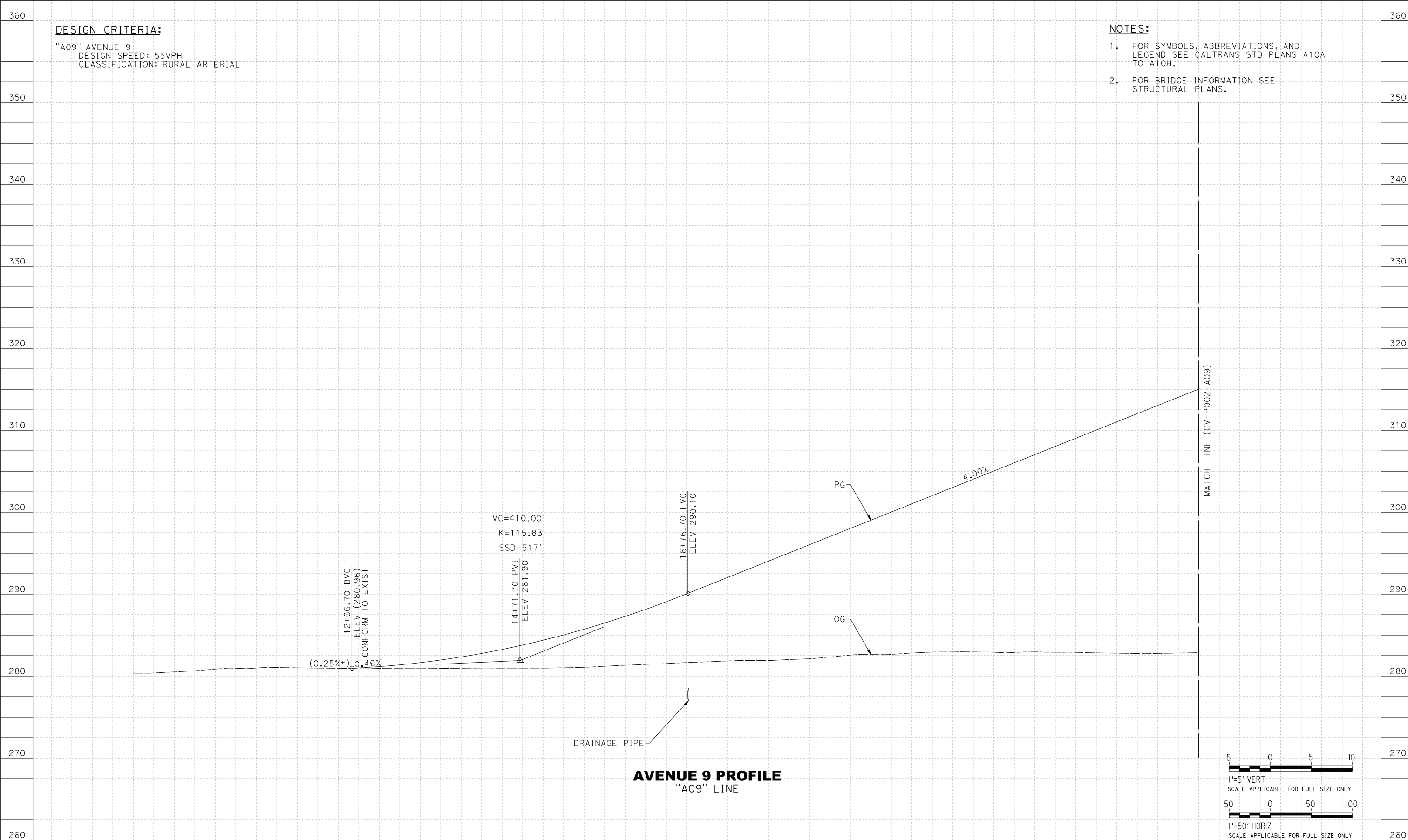
SCALE  
1"=50'

SHEET NO.  
7

Exhibit B3-3.5



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CHSR\_PDF\_full\_black.plt c:\pw\_working\california\p001022c\dms14324\CP1-CV-P001-A09.dgn



|     |          |    |     |     |                            |                                  |
|-----|----------|----|-----|-----|----------------------------|----------------------------------|
|     |          |    |     |     |                            | DESIGNED BY<br><b>J. HANNA</b>   |
| O   | 05/15/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     | DRAWN BY<br><b>Y. SAIKALI</b>    |
| C   | 10/13/14 |    |     |     | FINAL FACILITY PLAN        | CHECKED BY<br><b>A. ADHIKARY</b> |
| B   | 06/27/14 |    |     |     | INTERMEDIATE FACILITY PLAN | IN CHARGE<br><b>M. COOPER</b>    |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     | DATE<br><b>05/15/15</b>          |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |                                  |

A joint venture

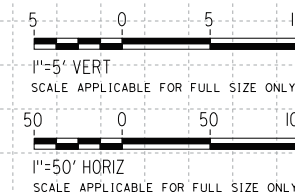
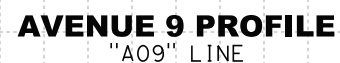
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 9 GRADE SEPARATION  
PROFILE  
SHEET 1 OF 4

|                                   |
|-----------------------------------|
| CONTRACT NO.<br><b>HSR13-06</b>   |
| DRAWING NO.<br><b>CV-P001-A09</b> |
| SCALE<br><b>AS SHOWN</b>          |
| SHEET NO.<br><b>8</b>             |

|                                |
|--------------------------------|
| "A09" AVENUE 9                 |
| DESIGN SPEED: 55MPH            |
| CLASSIFICATION: RURAL ARTERIAL |

1. SEE DRAWING CV-P001-A09 FOR NOTES.



|                                  |
|----------------------------------|
| DESIGNED BY<br><b>J. HANNA</b>   |
| DRAWN BY<br><b>Y. SAIKALI</b>    |
| CHECKED BY<br><b>A. ADHIKARY</b> |
| IN CHARGE<br><b>M. COOPER</b>    |
| DATE<br><b>05/15/15</b>          |

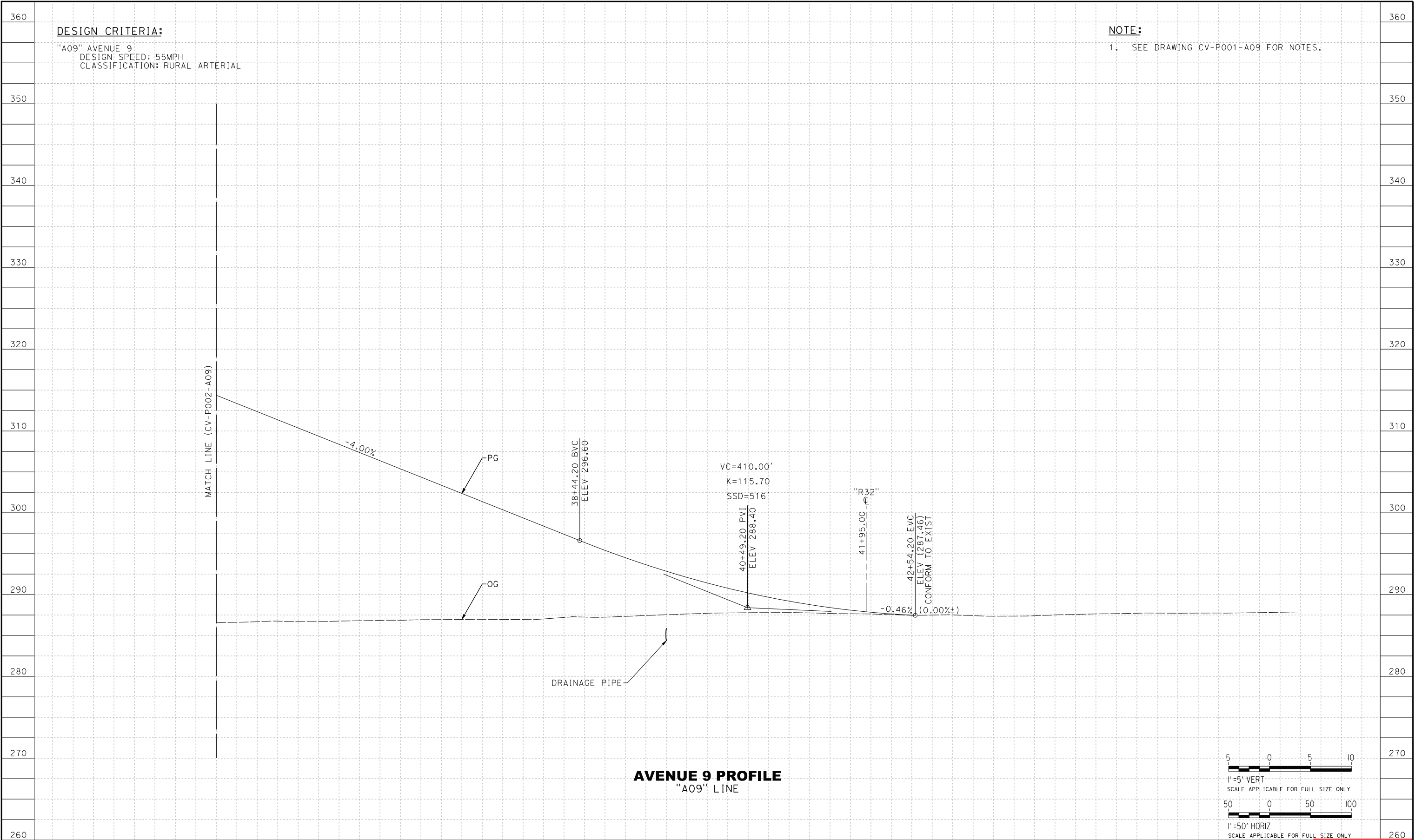




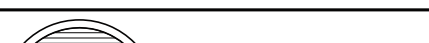
AVENUE 9 GRADE SEPARATION  
PROFILE  
SHEET 2 OF 4

|              |             |
|--------------|-------------|
| CONTRACT NO. | HSR13-06    |
| DRAWING NO.  | CV-P002-A09 |
| SCALE        | AS SHOWN    |
| SHEET NO.    | 9           |

Exhibit B3-3.7

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|       |          |    |     |     |                            |                           |   |   |   |   |                            |  |  |  |       |  |  |  |  |                |  |  |  |  |
|-------|----------|----|-----|-----|----------------------------|---------------------------|---|---|---|---|----------------------------|--|--|--|-------|--|--|--|--|----------------|--|--|--|--|
| 34+00 |          |    |     |     | 35+00                      |                           |   |   |   | 40+00   |                            |  |  |  | 45+00 |  |  |  |  | Exhibit B3-3.8 |  |  |  |  |
|       |          |    |     |     |                            | DESIGNED BY<br>J. HANNA   |  |  |  | <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>CONSTRUCTION PACKAGE 1</b><br><br>AVENUE 9 GRADE SEPARATION<br>PROFILE<br>SHEET 3 OF 4 | CONTRACT NO.<br>HSR13-06   |  |  |  |       |  |  |  |  |                |  |  |  |  |
| O     | 05/15/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     | DRAWN BY<br>Y. SAIKALI    |   |   |   |   | DRAWING NO.<br>CV-P003-A09 |  |  |  |       |  |  |  |  |                |  |  |  |  |
| C     | 10/27/14 |    |     |     | FINAL FACILITY PLAN        | CHECKED BY<br>A. ADHIKARY |   |   |   |   | SCALE<br>AS SHOWN          |  |  |  |       |  |  |  |  |                |  |  |  |  |
| B     | 06/27/14 |    |     |     | INTERMEDIATE FACILITY PLAN | IN CHARGE<br>M. COOPER    |   |   |   |   | SHEET NO.<br>10            |  |  |  |       |  |  |  |  |                |  |  |  |  |
| A     | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     | DATE<br>05/15/15          |   |   |   |   |                            |  |  |  |       |  |  |  |  |                |  |  |  |  |
| REV   | DATE     | BY | CHK | APP | DESCRIPTION                |                           |   |   |   |   |                            |  |  |  |       |  |  |  |  |                |  |  |  |  |

# **Exhibit B**

## **Project Drawings**

### **Exhibit B3 – Roadway Drawings**

#### **Exhibit B3-4 – Avenue 10**



1 — 0.25' HMA-A  
0.35' CLASS 2 AB

UPAL

VAR, 123.0' - 297.2'

VAR

VAR EMB

\* SEE  
DETAIL "A"

5% & 5% VAR

2:1  
OR FLATTER

MGS

HMA DIKE

HP EP ETW

VAR 4' 3' 4' 12' 12' 4' 3' 4' VAR

"A10" LINE

PG

5% & 5% VAR

\* SEE  
DETAIL "A"

VAR EMB

VAR

2:1  
OR FLATTER

MGS

HMA DIKE

OG

**AVENUE 10**

STA. 13+45.00 TO STA. 23+42.24

STA. 24+57.74 TO STA. 34+70.00

[illegible]

UPAL

VAR, 63.4' - 125.8'

VAR

VAR EMB

HP

ETW

VAR

VAR

VAR

VAR

ETW

HP

VAR

VAR

VAR EMB

DITCH

VAR

UPAL

"A10" LINE

PG

\* SEE DETAIL "A"

2:1 OR FLATTER

5%

2%

2%

5%

2:1 OR FLATTER

\* SEE DETAIL "A"

1

OG

SEE DRAINAGE PLANS

**AVENUE 10**

STA. 10+16.31 TO STA. 12+86.31

STA. 36+09.58 TO STA. 38+84.58

1. SEE DRAWING ST-K1100-A10 FOR TYPICAL SECTION STA. 23+42.24 TO STA. 24+57.74
2. FOR EXISTING PAVEMENT MILLING AND OVERLAY LOCATIONS, SEE LAYOUT PLANS
3. FOR SHOULDER SLOPE TRANSITION AT BRIDGE APPROACHES, SEE CV-CD001-A10
4. SEE LAYOUT PLANS FOR MGS AND DIKE LIMITS
5. EARTHWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MADERA COUNTY CONSTRUCTION SPECIFICATIONS, COUNTY OF MADERA SPECIAL PROVISIONS AND THE CONSTRUCTION RECOMMENDATIONS PRESENTED IN THE AVENUE 10 GEOTECHNICAL ENGINEERING DESIGN REPORT




|     |          |    |     |     |                            |
|-----|----------|----|-----|-----|----------------------------|
|     |          |    |     |     |                            |
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| B   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        |
| A   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |

|             |             |
|-------------|-------------|
| DESIGNED BY | J. HANNA    |
| DRAWN BY    | Y. SAIKALI  |
| CHECKED BY  | A. ADHIKARY |
| IN CHARGE   | M. COOPER   |
| DATE        | 05/08/15    |



**TutorPerini**

---

 **ZACHRY**

---

**PARSONS**  
*A joint venture*



AVENUE 10 GRADE SEPARATION  
TYPICAL SECTIONS

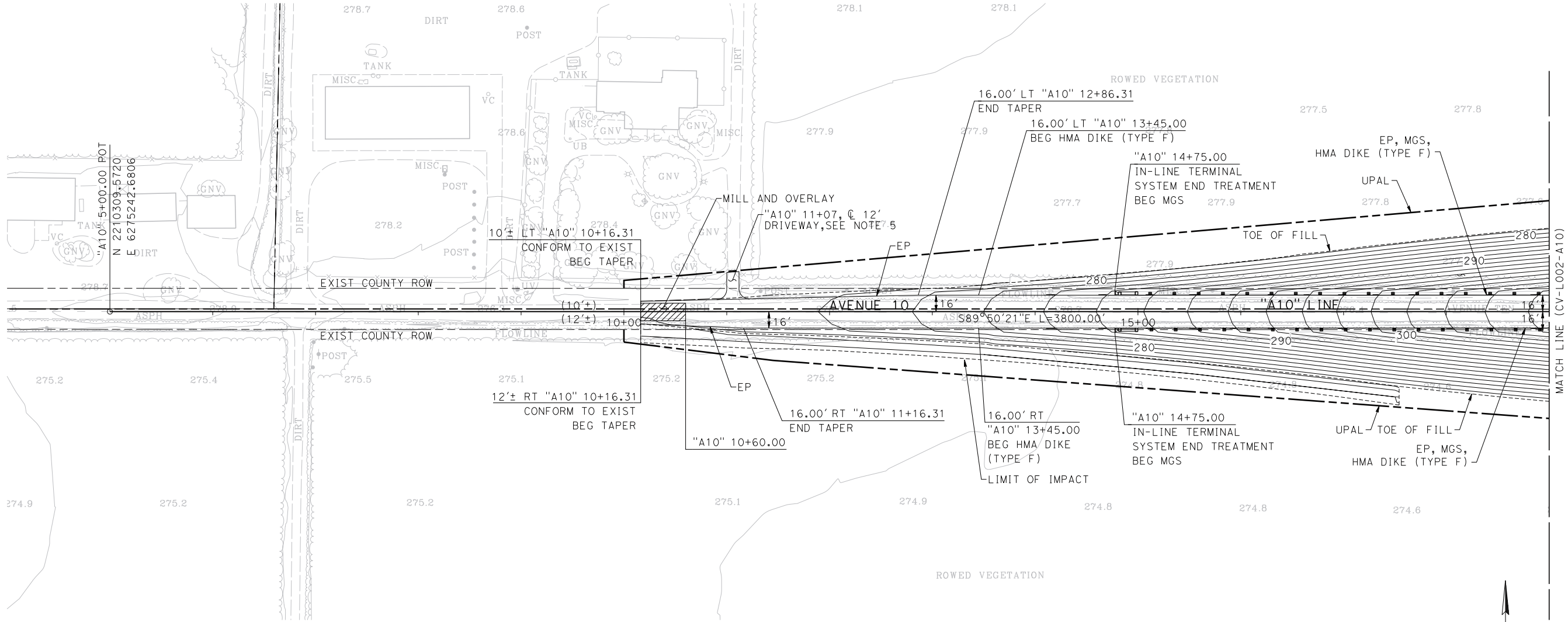
|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-X001-A10 |
| SCALE<br>NO SCALE          |
| SHEET NO.<br>3             |

DESIGN CRITERIA:

"A10" AVENUE 10  
DESIGN SPEED: 55MPH  
CLASSIFICATION: RURAL LOCAL

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS, & LEGEND SEE CALTRANS STD PLANS A10A TO A10H.
2. FOR HOT MIX ASPHALT DIKE DETAILS, SEE CALTRANS STD PLAN A87B & A77N4.
3. FOR MIDWEST GUARDRAIL SYSTEM (MGS) DETAILS, SEE CALTRANS STD PLAN A77P2 & A77N4.
4. FOR MGS TRANSITION RAILING AND CONNECTION DETAILS TO BRIDGE RAILING, SEE CALTRANS STD PLAN A77U1, A77U2, AND A77U4.
5. FOR DRIVEWAY DETAILS, SEE COUNTY OF MADERA STD PLANS ST-25 & ST-27. 2.5" HMA OVER 6" AB.
6. FOR RETAINING WALL DETAILS, SEE DRAWINGS CV-RW001-A10 TO CV-RW002-A10.
7. FOR DRAINAGE DETAILS, SEE DRAWINGS CV-D001-A10 TO CV-D003-A10, CV-DD001-A10 & CV-DP001-A10.
8. FOR PAVEMENT DELINEATION & SIGNING DETAILS, SEE DRAWINGS CV-PD001-A10 TO CV-PD003-A10.
9. FOR STRUCTURE DETAILS, SEE DRAWING ST-K1100-A10.
10. HST/MADERA COUNTY ROW TBD BASED ON FINAL AGREEMENT BETWEEN THE AUTHORITY AND MADERA COUNTY.



PLAN

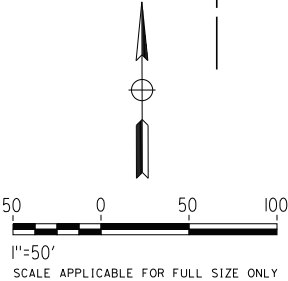


Exhibit B3-4.2

|     |          |    |     |     |                            |
|-----|----------|----|-----|-----|----------------------------|
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        |
| B   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/15          |



Tutor Perini

ZACHRY

PARSONS  
A joint venture



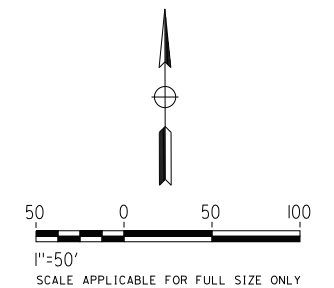
CALIFORNIA  
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 10 GRADE SEPARATION  
LAYOUT  
SHEET 1 OF 3

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-L001-A10 |
| SCALE<br>1"=50'            |
| SHEET NO.<br>4             |

1. SEE DRAWING CV-L001-A10 FOR NOTES.








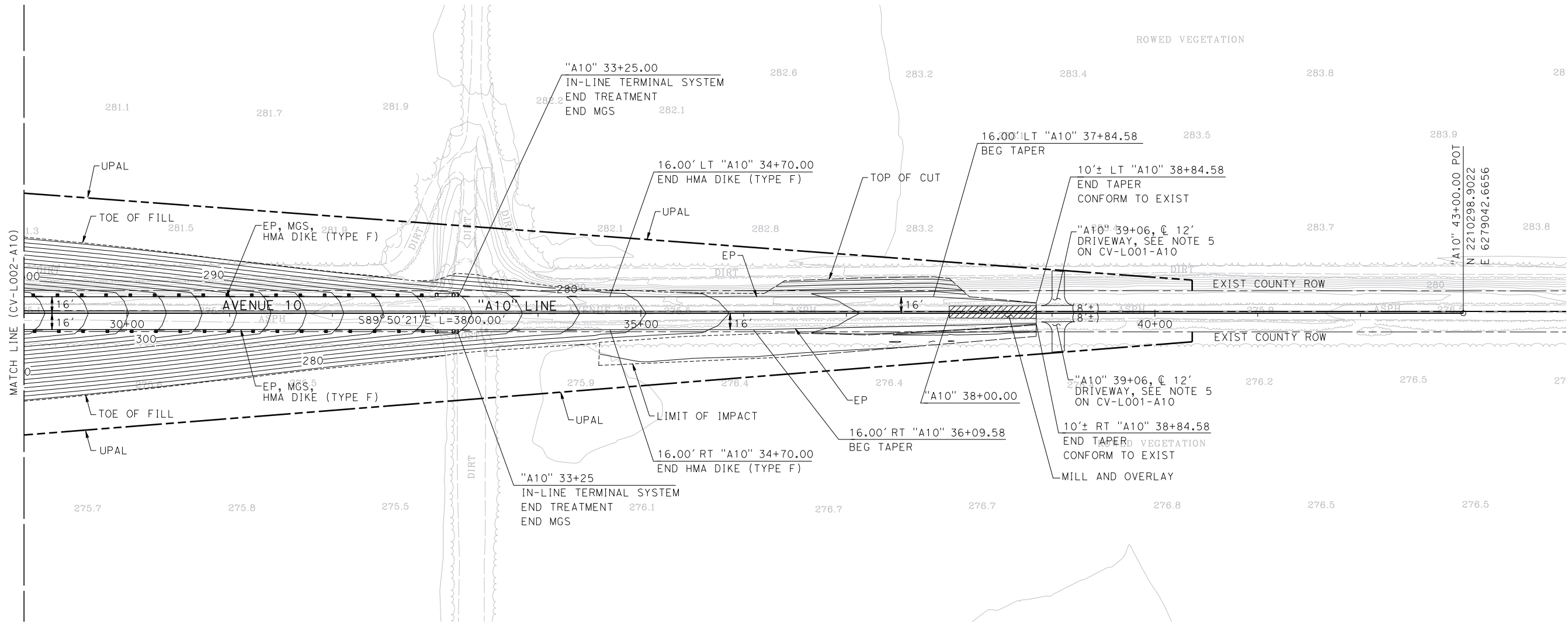
|     |          |    |     |     |                            |   |   |   |   |                            |
|-----|----------|----|-----|-----|----------------------------|---|---|---|---|----------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA    |  | <br><br><br><i>A joint venture</i> |  | <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>CONSTRUCTION PACKAGE 1</b><br><br>AVENUE 10 GRADE SEPARATION<br>LAYOUT<br>SHEET 2 OF 3 | CONTRACT NO.<br>HSR13-06   |
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |   |   |   |   | DRAWING NO.<br>CV-L002-A10 |
| C   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        |   |   |   |   | SCALE<br>1"=50'            |
| B   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN |   |   |   |   | SHEET NO.<br>5             |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     |   |   |   |   |                            |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                | DATE<br>05/08/15  |   |   |   |                            |

Exhibit B3-4.3

p0010497 5/7/2015 7:57:44 AM CHSTP.tbl CHSR\_PDF\_full\_black.plt c:\p0010497\dwg\_working\cadot\p0010497\dms14113\CP1-CV-L003-A10.dgn

NOTE:  
1. SEE DRAWING CV-L001-A10 FOR NOTES.



PLAN

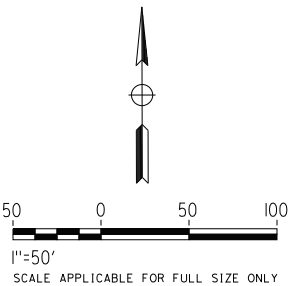


Exhibit B3-4.4

| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
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| C   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        |
| B   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/15          |



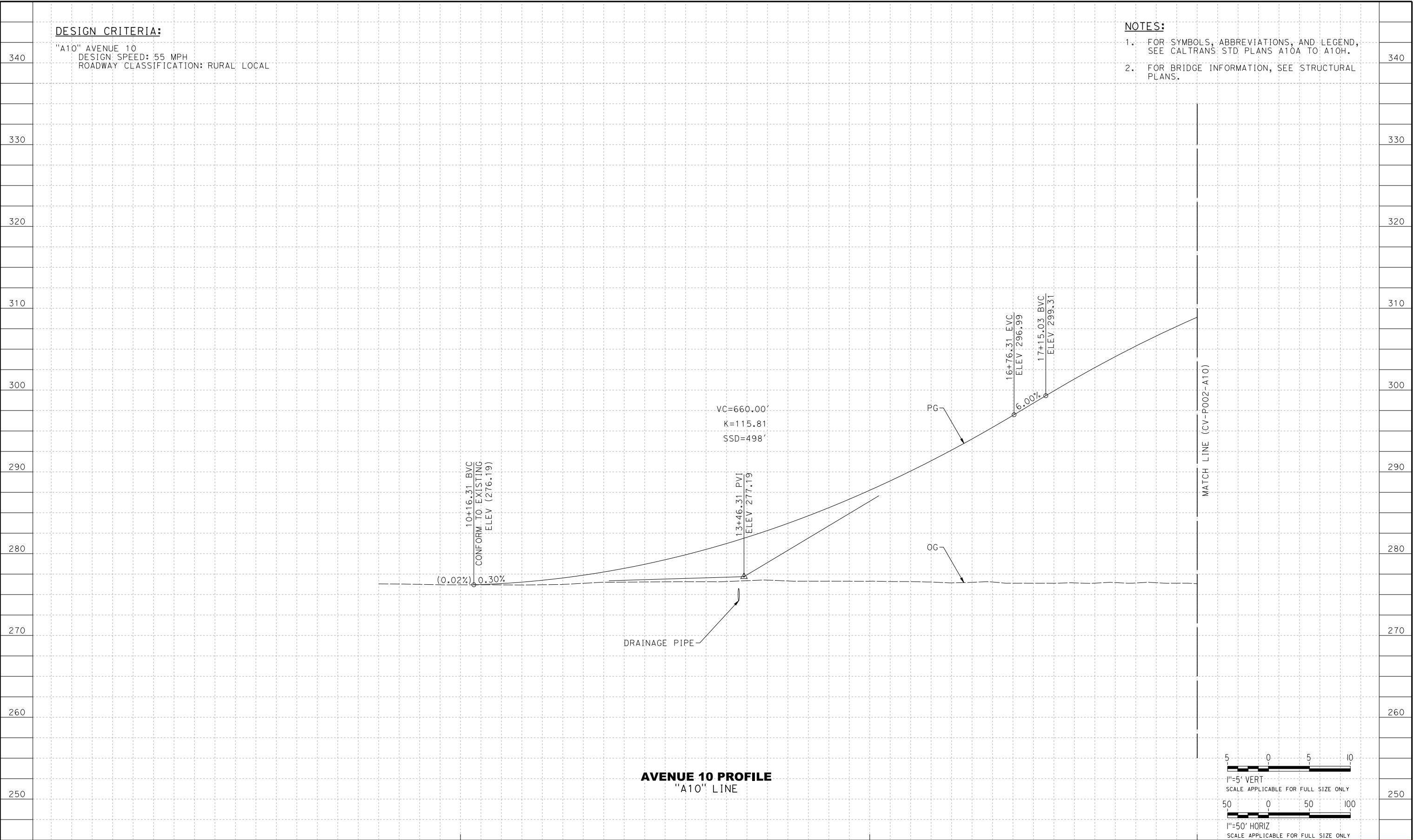
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 10 GRADE SEPARATION  
LAYOUT  
SHEET 3 OF 3

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-L003-A10 |
| SCALE<br>1"=50'            |
| SHEET NO.<br>6             |



p:\xp\p02pw\int01.parsons.com\California State\Documents\CHSTP CP1\05 - Design\CADD\Sheet Files\Civil\05 - Avenue 10\CP1-CV-P001-A10.dgn  
p0010497 5/7/2015 7:57:57 AM CHSTP.tbl CHSR\_PDF\_full\_black.plt\c:\pw\_working\cadot\p0010497\dms14113\CP1-CV-P001-A10.dgn



|     |          |    |     |     |                            |
|-----|----------|----|-----|-----|----------------------------|
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        |
| B   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/15          |

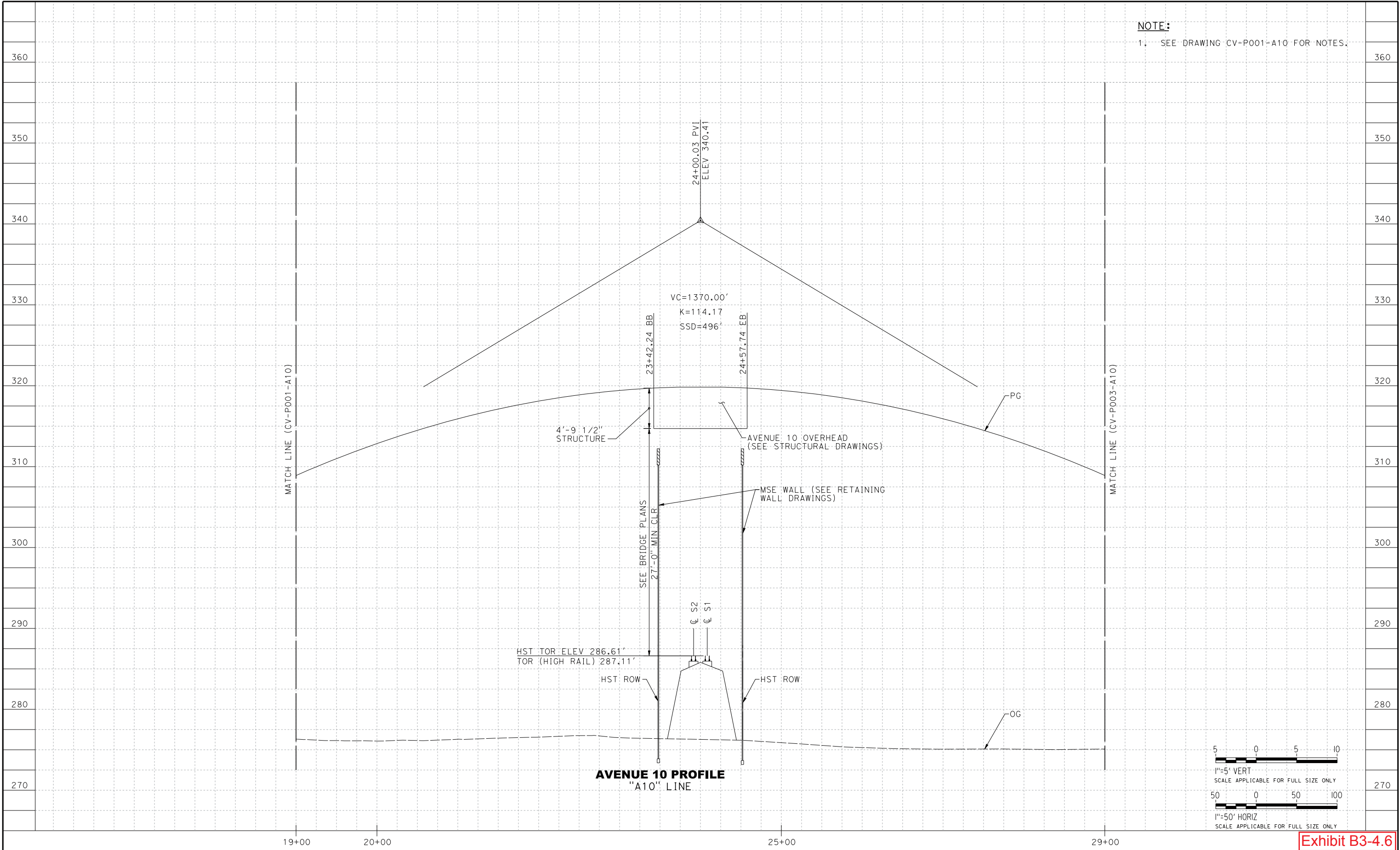


|   |                            |
|---|----------------------------|
| <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b><br><b>CONSTRUCTION PACKAGE 1</b> | CONTRACT NO.<br>HSR13-06   |
| AVENUE 10 GRADE SEPARATION<br>PROFILE<br>SHEET 1 OF 3                       | DRAWING NO.<br>CV-P001-A10 |
|   | SCALE<br>AS SHOWN          |
|   | SHEET NO.<br>7             |

Exhibit B3-4.5



p:\xp1\02\pwin101.parsons.com\California State\Documents\CHSTP CP1\05 - Design\CADD\Sheet Files\Civil\05 - Avenue 10\CP1-CV-P002-A10.dgn  
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| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        |
| B   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/15          |



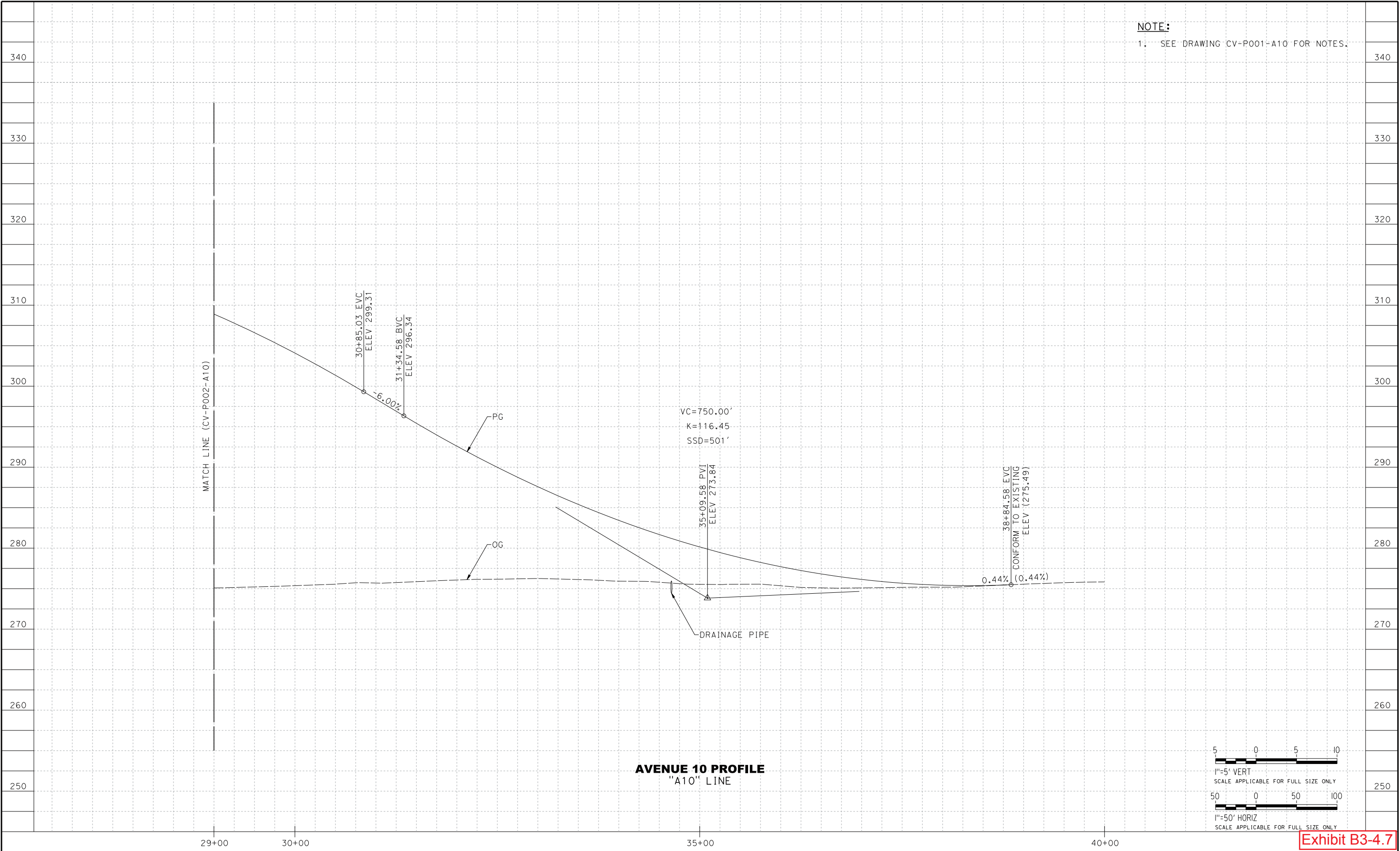
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 10 GRADE SEPARATION  
PROFILE  
SHEET 2 OF 3


|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-P002-A10 |
| SCALE<br>AS SHOWN          |
| SHEET NO.<br>8             |




Exhibit B3-4.6

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|     |          |    |     |     |                            |                           |  |
|-----|----------|----|-----|-----|----------------------------|---------------------------|--|
|     |          |    |     |     |                            | DESIGNED BY<br>J. HANNA   |  |
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     | DRAWN BY<br>Y. SAIKALI    |  |
| C   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        | CHECKED BY<br>A. ADHIKARY |  |
| B   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN | IN CHARGE<br>M. COOPER    |  |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     | DATE<br>05/08/15          |  |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |                           |  |





A joint venture



CALIFORNIA  
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 10 GRADE SEPARATION  
PROFILE  
SHEET 3 OF 3

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-P003-A10 |
| SCALE<br>AS SHOWN          |
| SHEET NO.<br>9             |

Exhibit B3-4.7

# **Exhibit B**

## **Project Drawings**

### **Exhibit B3 – Roadway Drawings**

#### **Exhibit B3-5 – Avenue 11**

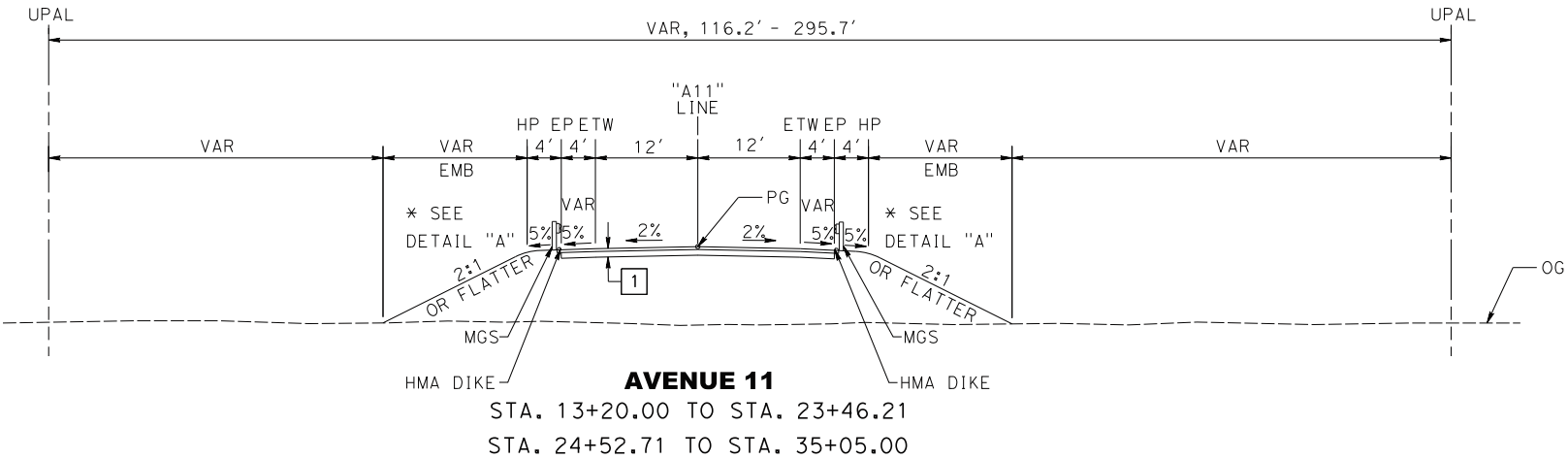
PAVEMENT SECTION

- 1

0.25' HMA-A

0.35' CLASS 2 AB

PAVEMENT SECTION APPLICABLE WHEN THE UPPER 4 FEET OF NEW EMBANKMENT MATERIALS (MEASURED FROM THE GRADING PLANE) POSSESS A MINIMUM R-VALUE OF 50 AND A PLASTICITY INDEX OF LESS THAN 12%. WHERE SUBGRADE DOES NOT MEET THESE REQUIREMENTS, SEE GEOTECHNICAL ENGINEERING DESIGN REPORT AVE 11 OVERHEAD (NEW) FOR RECOMMENDATIONS.



NOTES:

1. SEE DRAWING ST-K1100-A11 FOR TYPICAL SECTION STA. 23+46.21 TO STA. 24+52.71
2. FOR EXISTING PAVEMENT MILLING AND OVERLAY LOCATIONS, SEE LAYOUT PLANS
3. FOR SHOULDER SLOPE TRANSITION AT BRIDGE APPROACHES, SEE CV-CD001-A11
4. SEE LAYOUT PLANS FOR MGS AND DIKE LIMITS
5. EARTHWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MADERA COUNTY CONSTRUCTION SPECIFICATIONS, COUNTY OF MADERA SPECIAL PROVISIONS AND THE CONSTRUCTION RECOMMENDATIONS PRESENTED IN THE AVENUE 11 GEOTECHNICAL ENGINEERING DESIGN REPORT

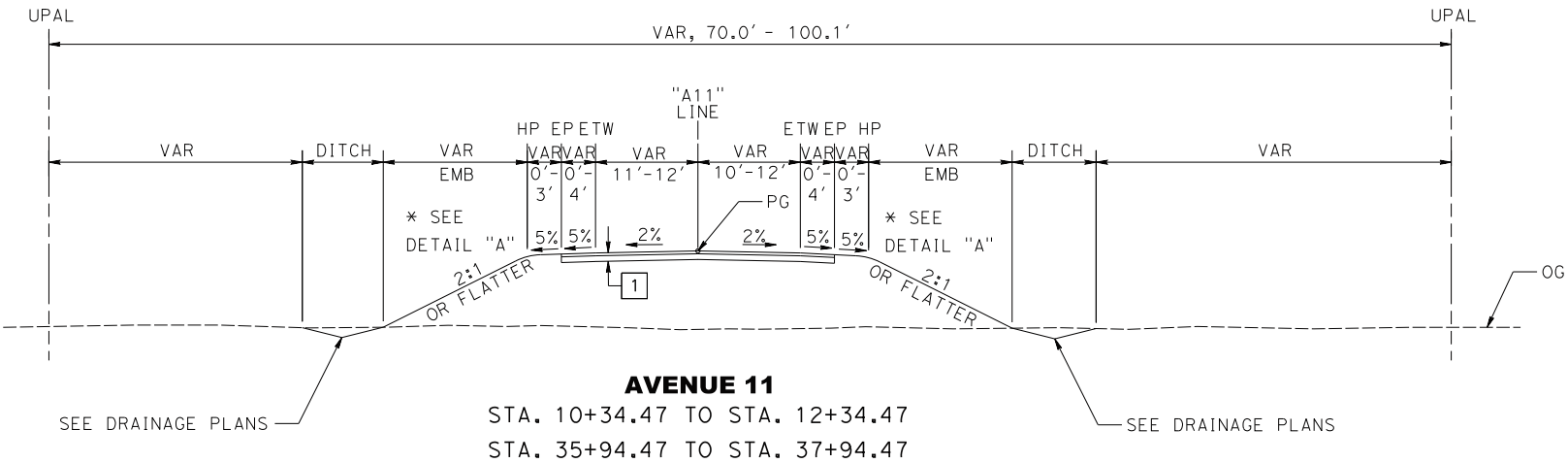
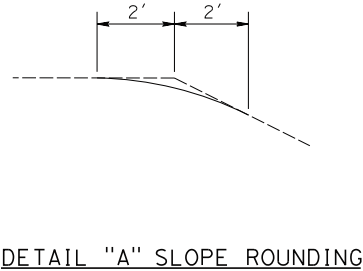
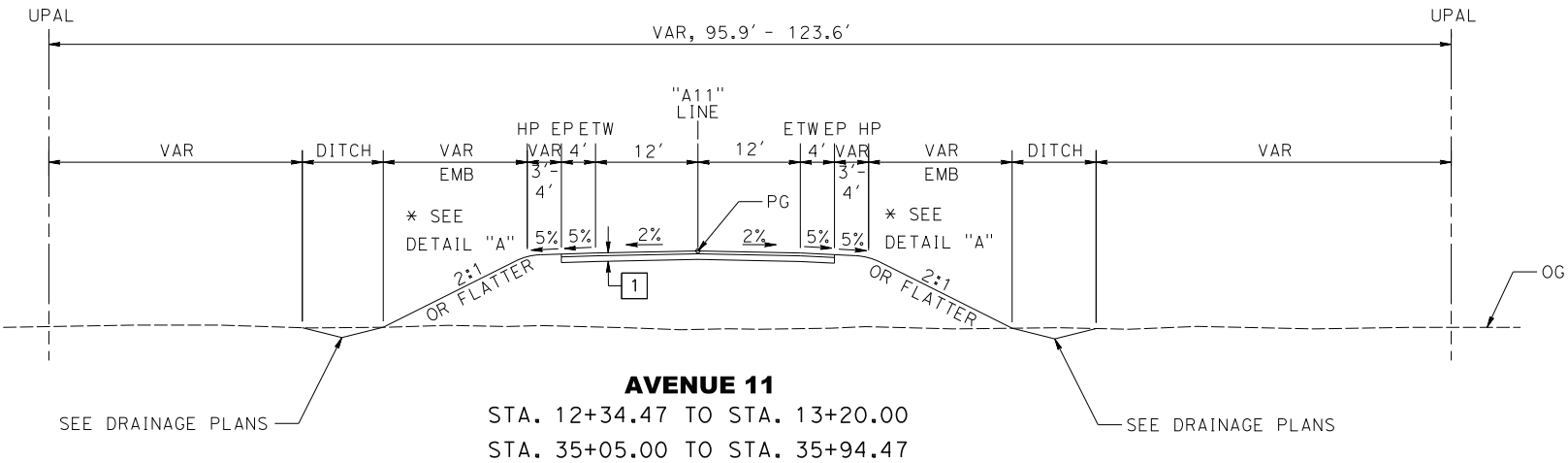


Exhibit B3-5.1

| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| 0   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| B   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        |
| A   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/2015        |



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 11 GRADE SEPARATION  
TYPICAL SECTIONS

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-X001-A11 |
| SCALE<br>NO SCALE          |
| SHEET NO.<br>3             |

DESIGN CRITERIA:

"A11" AVENUE 11  
DESIGN SPEED: 55MPH  
CLASSIFICATION: RURAL LOCAL ROAD

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS, & LEGEND  
SEE CALTRANS STD PLANS A10A TO A10H.

2. FOR HOT MIX ASPHALT DIKE DETAILS,  
SEE CALTRANS STD PLAN A87B AND A77N4.

3. FOR MIDWEST GUARDRAIL SYSTEM  
DETAILS, SEE CALTRANS STD PLAN A77P2 AND A77N4.

4. FOR MGS TRANSITION RAILING AND  
CONNECTION DETAILS TO BRIDGE  
RAILING, SEE CALTRANS STD PLAN A77U1, A77U2, AND A77U4.

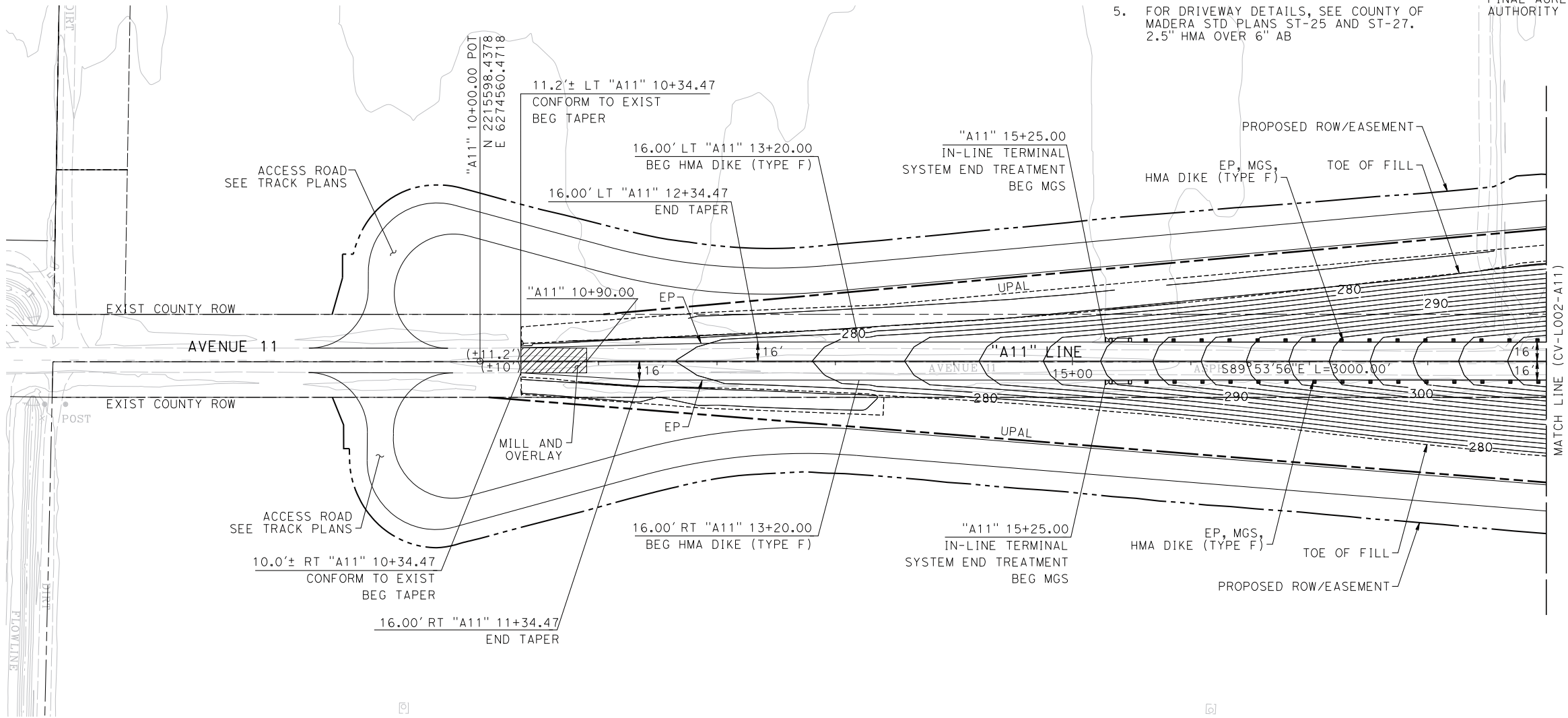
5. FOR DRIVEWAY DETAILS, SEE COUNTY OF  
MADERA STD PLANS ST-25 AND ST-27.  
2.5" HMA OVER 6" AB
6. FOR RETAINING WALL DETAILS, SEE  
DRAWINGS CV-RW001-A11 TO  
CV-RW002-A11.

7. FOR DRAINAGE DETAILS, SEE DRAWINGS  
CV-D001-A11 TO CV-D003-A11,  
CV-DD001-A11 & CV-DP001-A11.

8. FOR PAVEMENT DELINEATION & SIGNING  
DETAILS, SEE DRAWINGS CV-PD001-A11  
TO CV-PD003-A11.

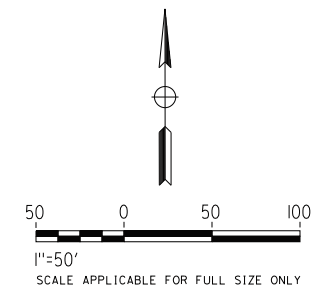
9. FOR STRUCTURE DETAILS, SEE DRAWING  
ST-K1100-A11.

10. HST/MADERA COUNTY ROW TBD BASED ON  
FINAL AGREEMENT BETWEEN THE  
AUTHORITY AND MADERA COUNTY








1. SEE DRAWING CV-L001-A11 FOR NOTES.



|     |          |    |     |     |                           |
|-----|----------|----|-----|-----|---------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA   |
| O   | 05/08/15 | JH | AA  | MC  | DRAWN BY<br>Y. SAIKALI    |
| C   | 11/20/14 |    |     |     | CHECKED BY<br>A. ADHIKARY |
| B   | 07/23/14 |    |     |     | IN CHARGE<br>M. COOPER    |
| A   | 06/23/14 |    |     |     | DATE<br>05/08/2015        |
| REV | DATE     | BY | CHK | APP | DESCRIPTION               |
|     |          |    |     |     |                           |







**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 11 GRADE SEPARATION  
LAYOUT  
SHEET 2 OF 3

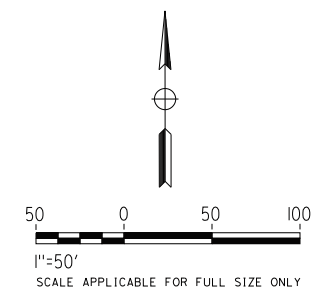
CONTRACT NO.  
HSR13-06

DRAWING NO.  
CV-L002-A11


SCALE  
1"=50'


SHEET NO.  
5


1. SEE DRAWING CV-L001-A11 FOR NOTES.



|     |          |    |     |     |                           |
|-----|----------|----|-----|-----|---------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA   |
| O   | 05/08/15 | JH | AA  | MC  | DRAWN BY<br>Y. SAIKALI    |
| C   | 11/20/14 |    |     |     | CHECKED BY<br>A. ADHIKARY |
| B   | 07/23/14 |    |     |     | IN CHARGE<br>M. COOPER    |
| A   | 03/23/14 |    |     |     | DATE<br>05/08/2015        |
| REV | DATE     | BY | CHK | APP | DESCRIPTION               |
|     |          |    |     |     |                           |







**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 11 GRADE SEPARATION  
LAYOUT  
SHEET 3 OF 3

CONTRACT NO.  
HSR13-06

DRAWING NO.  
CV-L003-A11

SCALE  
1"=50'

SHEET NO.  
6

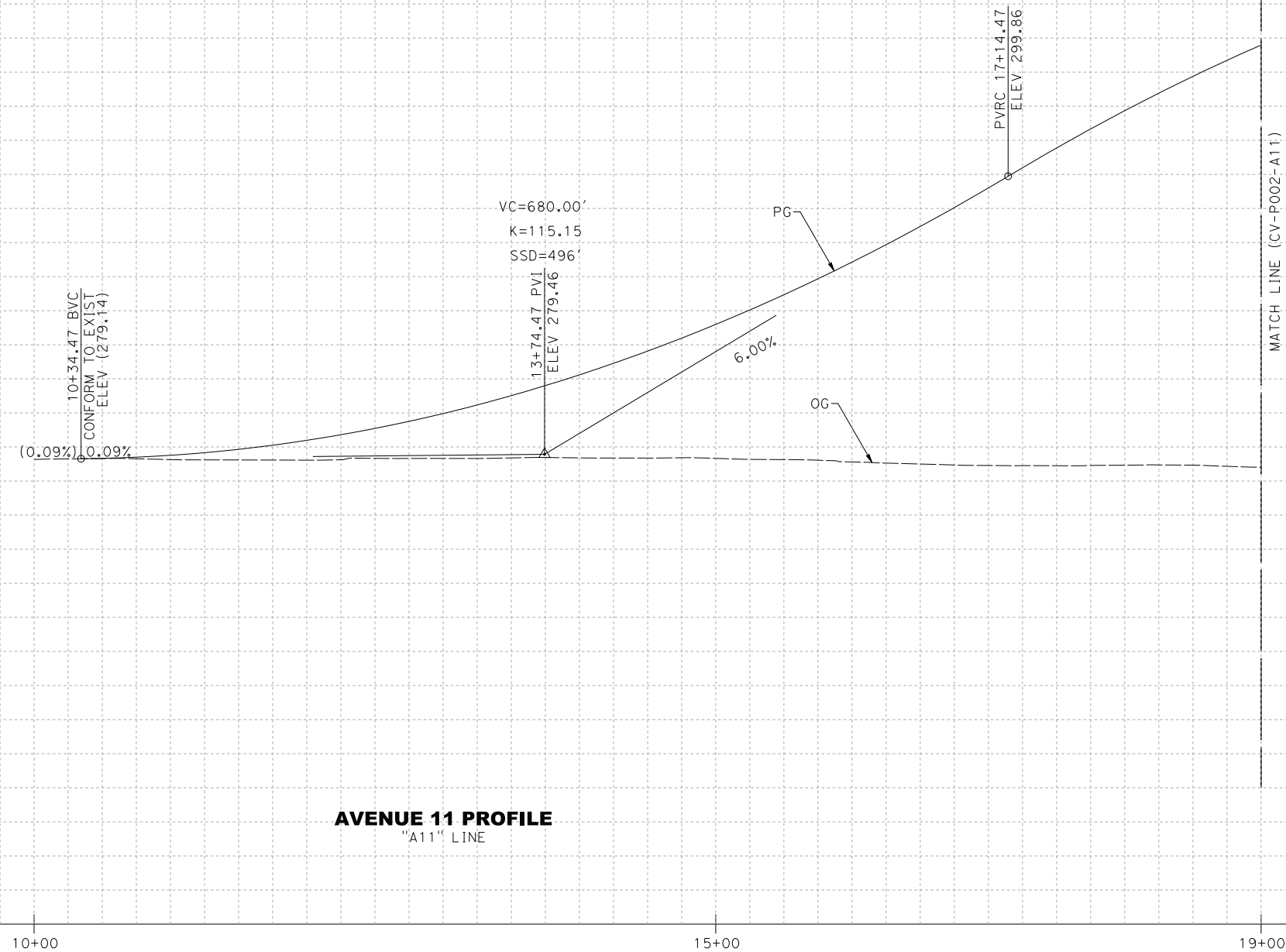
Exhibit B3-5.4

DESIGN CRITERIA:

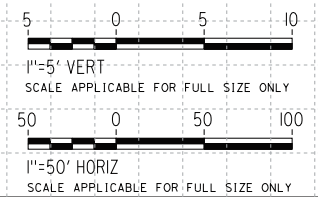
|                                  |  |
|----------------------------------|--|
| "A11" AVENUE 11                  |  |
| DESIGN SPEED: 55 MPH             |  |
| CLASSIFICATION: RURAL LOCAL ROAD |  |

NOTES:


1. FOR SYMBOLS, ABBREVIATIONS, AND LEGEND, SEE CALTRANS STD PLANS A10A TO A10H.
2. FOR BRIDGE INFORMATION, SEE STRUCTURAL PLANS.







# AVENUE 11 PROFILE



|     |          |    |     |     |                            |                           |
|-----|----------|----|-----|-----|----------------------------|---------------------------|
|     |          |    |     |     |                            | DESIGNED BY<br>J. HANNA   |
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     | DRAWN BY<br>Y. SAIKALI    |
| C   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        | CHECKED BY<br>A. ADHIKARY |
| B   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN | IN CHARGE<br>M. COOPER    |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     | DATE<br>05/08/2015        |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |                           |




  

  

  
*A joint venture*



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 11 GRADE SEPARATION  
PROFILE  
SHEET 1 OF 3

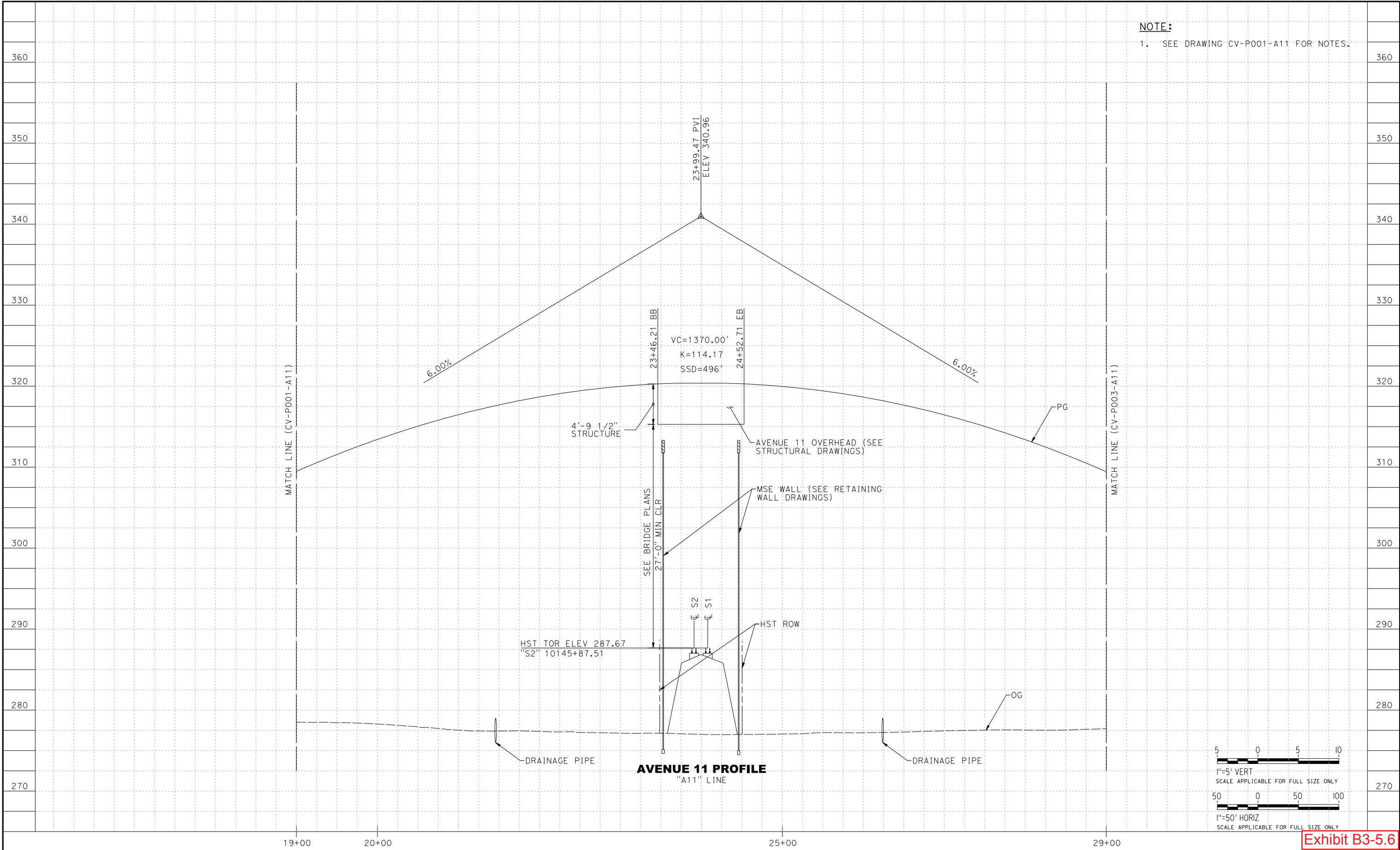
CONTRACT NO.  
HSR13-06

DRAWING NO.  
CV-P001-A11

SCALE  
AS SHOWN

SHEET NO.  
7

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| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 11/20/14 |    |     |     | FINAL FACILITY PLAN        |
| B   | 07/23/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| A   | 06/23/14 |    |     |     | DESIGN BASELINE REPORT     |

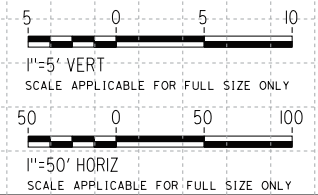
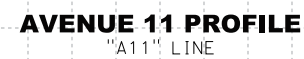
|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>Y. SAIKALI    |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/2015        |




|   |                            |
|---|----------------------------|
| <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>CONSTRUCTION PACKAGE 1</b> |                            |
| AVENUE 11 GRADE SEPARATION<br>PROFILE<br>SHEET 2 OF 3                 |                            |
| CONTRACT NO.<br>HSR13-06  | DRAWING NO.<br>CV-P002-A11 |
| SCALE<br>AS SHOWN   | SHEET NO.<br>8             |




Exhibit B3-5.6

1. SEE DRAWING CV-P001-A11 FOR NOTES.




|     |          |    |     |     |                           |
|-----|----------|----|-----|-----|---------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA   |
| O   | 05/08/15 | JH | AA  | MC  | DRAWN BY<br>Y. SAIKALI    |
| C   | 11/20/14 |    |     |     | CHECKED BY<br>A. ADHIKARY |
| B   | 07/23/14 |    |     |     | IN CHARGE<br>M. COOPER    |
| A   | 06/23/14 |    |     |     | DATE<br>05/08/2015        |
| REV | DATE     | BY | CHK | APP | DESCRIPTION               |
|     |          |    |     |     |                           |



A joint venture



## CALIFORNIA HIGH-SPEED TRAIN PROJECT CONSTRUCTION PACKAGE 1

AVENUE 11 GRADE SEPARATION  
PROFILE  
SHEET 3 OF 3

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-P003-A11 |
| SCALE<br>AS SHOWN          |
| SHEET NO.<br>9             |



# **Exhibit B**

## **Project Drawings**

### **Exhibit B3 – Roadway Drawings**

#### **Exhibit B3-6 – Avenue 12 HST**

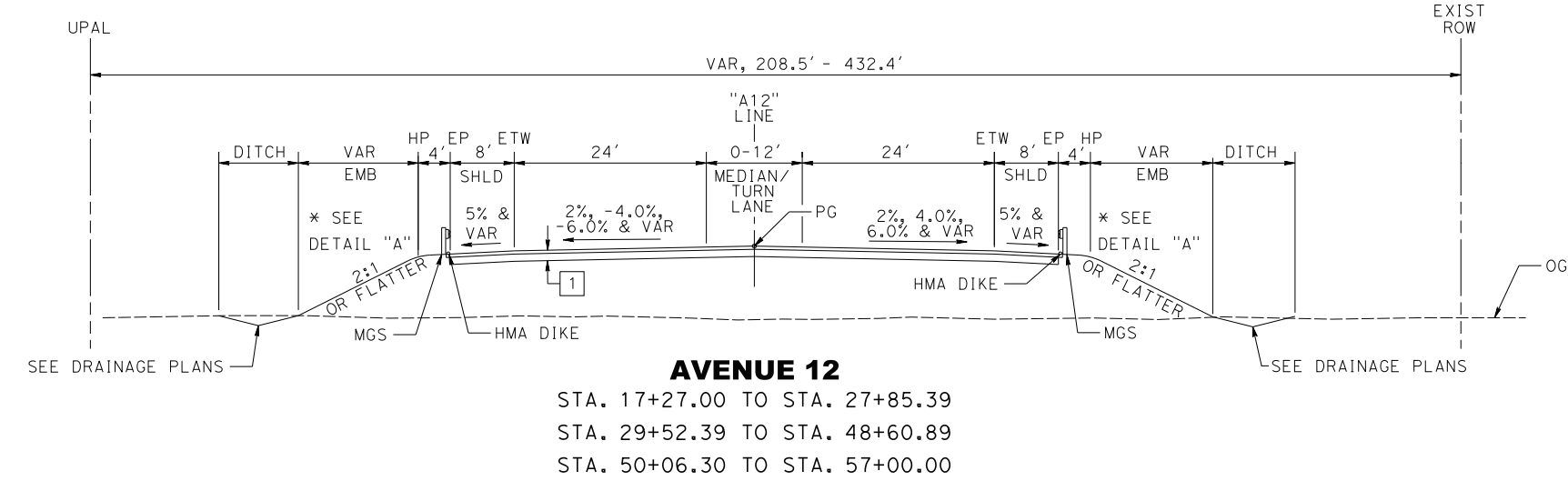
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PAVEMENT SECTIONS

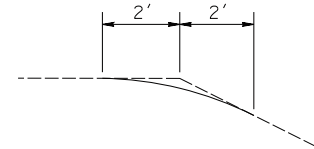
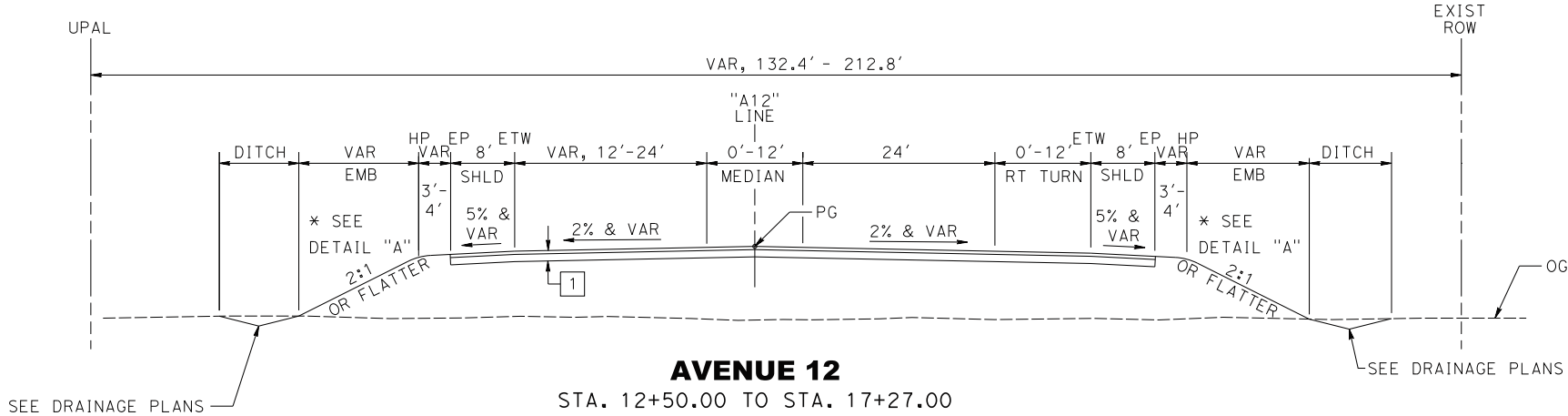
- 1
- 0.4' HMA-A

0.45' Class 2 AB

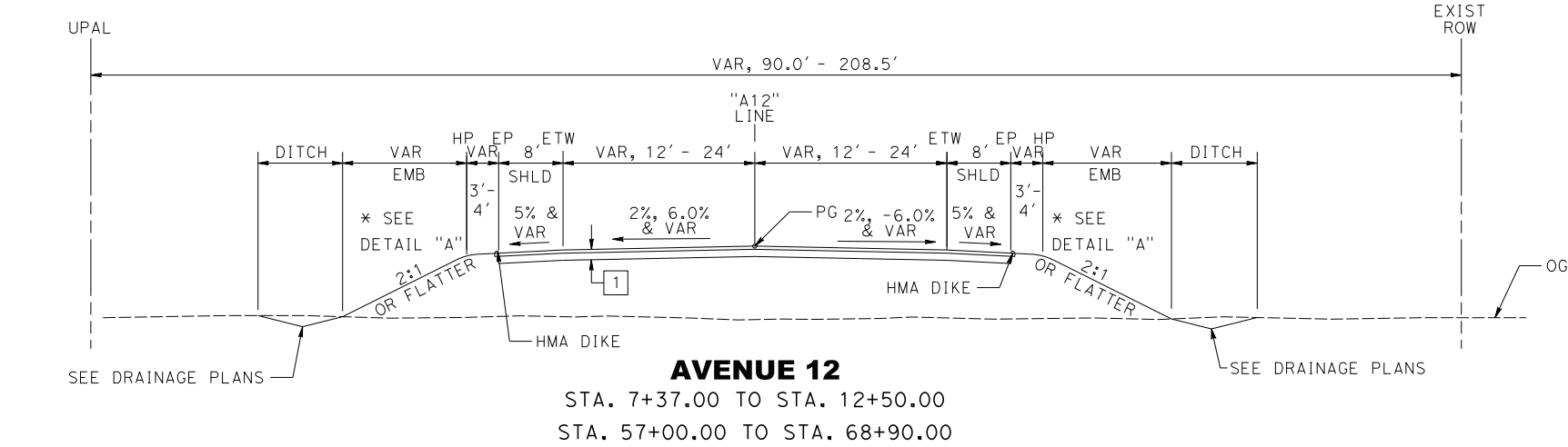
PAVEMENT SECTION APPLICABLE WHEN THE UPPER 4' OF NEW EMBANKMENT MATERIALS (MEASURED FROM THE GRADING PLANE) POSSESS A MINIMUM R-VALUE OF 50 AND A PLASICITY INDEX OF LESS THAN 12%. WHERE SUBGRADE DOES NOT MEET THESE REQUIREMENTS SEE GEOTECHNICAL ENGINEERING DESIGN REPORT AVENUE 12 OVERHEAD (NEW) FOR RECOMMENDATIONS.



- NOTES:
- SEE DRAWING ST-K1100-A12 FOR TYPICAL SECTION STA. 27+85.39 TO STA. 29+52.39
  - SEE DRAWING ST-K1101-A12 FOR TYPICAL SECTION STA. 48+60.89 TO STA. 50+06.30
  - FOR EXISTING PAVEMENT MILLING AND OVERLAY LOCATIONS, SEE LAYOUT PLANS
  - FOR SHOULDER SLOPE TRANSITION AT BRIDGE APPROACHES, SEE CV-CD001-A12
  - SEE LAYOUT PLANS FOR MGS AND DIKE LIMITS
  - EARTHWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MADERA COUNTY CONSTRUCTION SPECIFICATIONS, COUNTY OF MADERA SPECIAL PROVISIONS AND THE CONSTRUCTION RECOMMENDATIONS PRESENTED IN THE AVENUE 12 GEOTECHNICAL ENGINEERING DESIGN REPORT



DETAIL "A" SLOPE ROUNDING



| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 05/01/15 |    |     |     | BNSF CONCEPT PLANS         |
| B   | 10/27/14 |    |     |     | FINAL FACILITY PLAN        |
| A   | 04/29/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>J. MORTON     |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/15          |



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 12 GRADE SEPARATION  
TYPICAL SECTIONS  
SHEET 1 OF 2

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-X001-A12 |
| SCALE<br>NO SCALE          |
| SHEET NO.<br>3             |

Exhibit B3-6.1

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS, & LEGEND SEE CALTRANS STD PLANS A10A TO A10H.

2. FOR HOT MIX ASPHALT DIKE DETAILS, SEE CALTRANS STD PLAN A87B & A77N4.

3. FOR MIDWEST GUARDRAIL SYSTEM (MGS) DETAILS, SEE CALTRANS STD PLAN A77P2 & A77N4.

4. FOR MGS TRANSITION RAILING(TYPE WB-31) AND CONNECTION DETAILS TO BRIDGE RAILING, SEE CALTRANS STD PLAN A77U1, A77U2. AND A77U4.

5. FOR DRIVEWAY DETAILS, SEE COUNTY OF MADERA STD PLANS ST-25 AND ST-27. 2.5" HMA OVER 6" AB.
6. FOR RETAINING WALL DETAILS, SEE SHEETS CV-RW001-A12 TO CV-RW005 -A12.

7. FOR DRAINAGE DETAILS, SEE SHEETS CV-DD001-A12 TO CV-DD002-A12.

8. FOR PAVEMENT DELINEATION & SIGNING DETAILS, SEE SHEETS CV-PD001-A12 TO CV-PD005-A12.

9. FOR STRUCTURES DETAILS, SEE SHEETS ST-K1100-12H TO ST-K1101-12B.

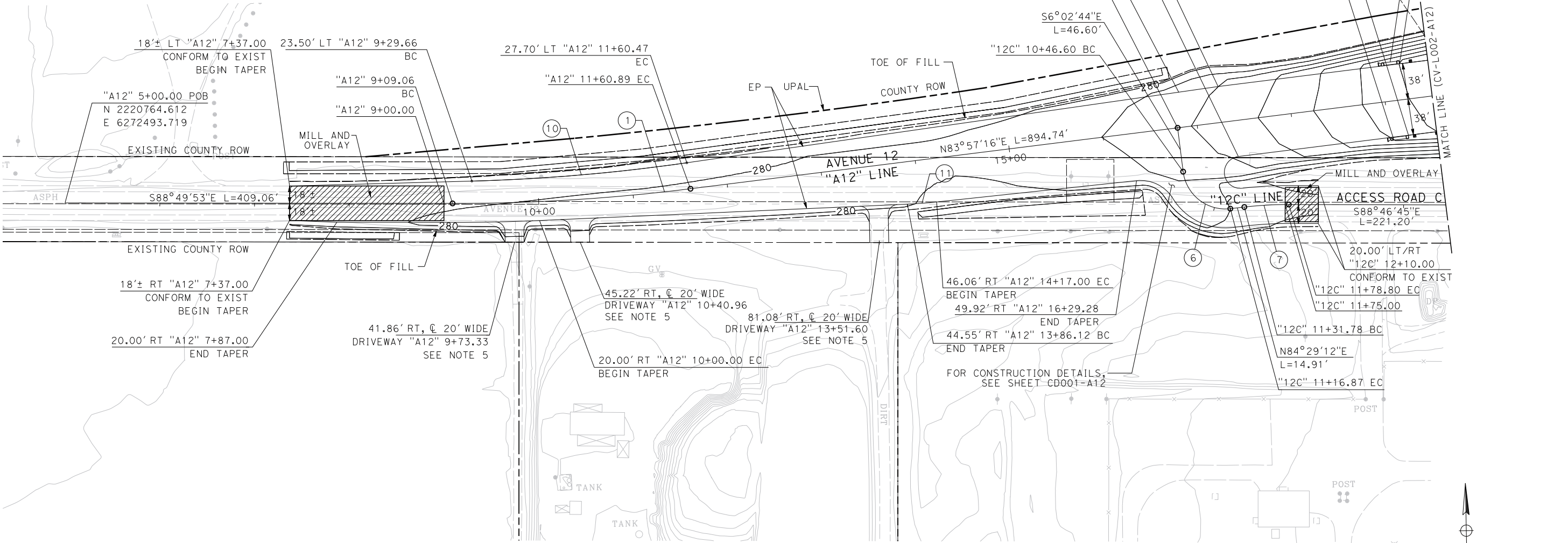
10. HST/MADERA COUNTY ROW TBD BASED ON FINAL AGREEMENT BETWEEN THE AUTHORITY AND MADERA COUNTY.

DESIGN CRITERIA

- "A12" AVENUE 12  
DESIGN SPEED: 55 MPH  
CLASSIFICATION: RURAL ARTERIAL
- "12A" ACCESS ROAD A  
DESIGN SPEED: 25 MPH  
CLASSIFICATION: RURAL LOCAL ROAD
- "12B" ACCESS ROAD B  
DESIGN SPEED: 25 MPH  
CLASSIFICATION: RURAL LOCAL ROAD
- "12C" ACCESS ROAD C  
DESIGN SPEED: 15 MPH  
CLASSIFICATION: RURAL LOCAL ROAD

CURVE DATA

| NO. | R        | Δ          | T       | L       |
|-----|----------|------------|---------|---------|
| ①   | 2000.00' | 07°12'51"L | 126.08' | 251.82' |
| ⑥   | 45.00'   | 89°28'04"L | 44.58'  | 70.27'  |
| ⑦   | 400.00'  | 06°44'03"R | 23.53'  | 47.01'  |
| ⑩   | 1975.00' | 06°36'41"L | 114.07' | 227.89' |
| ⑪   | 500.00'  | 03°32'36"L | 15.47'  | 30.92'  |



PLAN

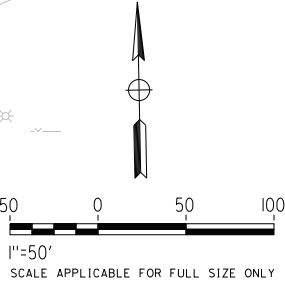


Exhibit B3-6.2

| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 05/01/15 |    |     |     | BNSF CONCEPT PLANS         |
| B   | 10/27/14 |    |     |     | FINAL FACILITY PLAN        |
| A   | 04/29/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>J. MORTON     |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/15          |

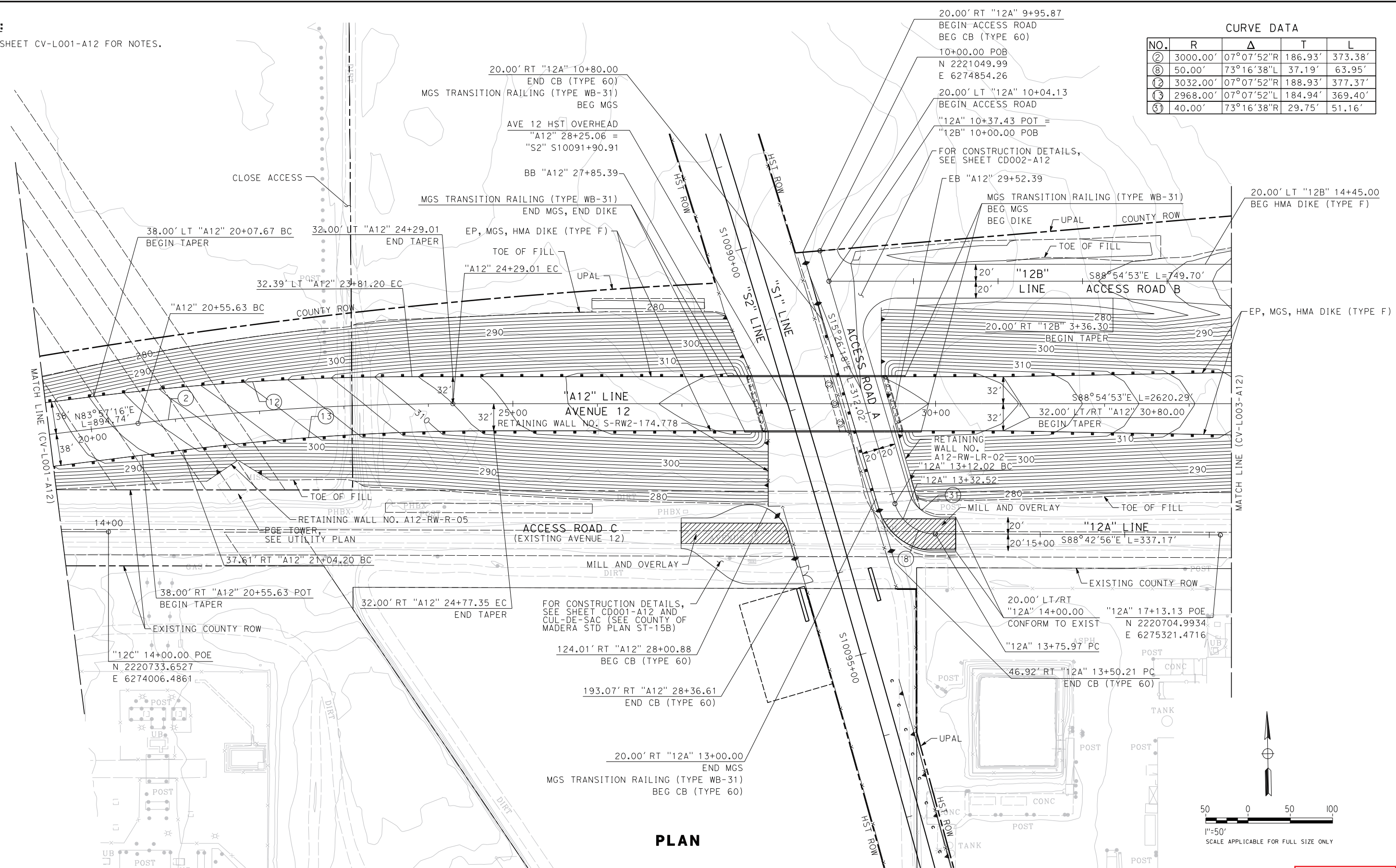


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1

AVENUE 12 GRADE SEPARATION  
LAYOUT  
SHEET 1 OF 5

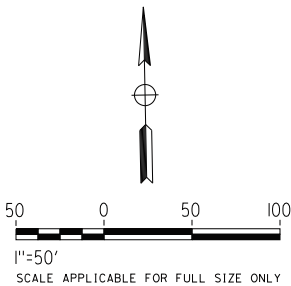
|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-L001-A12 |
| SCALE<br>1" = 50'          |
| SHEET NO.<br>5             |

NOTES:  
1. SEE SHEET CV-L001-A12 FOR NOTES.



| CURVE DATA |          |            |         |         |
|------------|----------|------------|---------|---------|
| NO.        | R        | Δ          | T       | L       |
| ②          | 3000.00' | 07°07'52"R | 186.93' | 373.38' |
| ⑧          | 50.00'   | 73°16'38"L | 37.19'  | 63.95'  |
| ⑫          | 3032.00' | 07°07'52"R | 188.93' | 377.37' |
| ⑬          | 2968.00' | 07°07'52"L | 184.94' | 369.40' |
| ⑬          | 40.00'   | 73°16'38"R | 29.75'  | 51.16'  |

PLAN



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p0010497 5/4/2015 1:28:34 PM CHSR\_PDF\_ful\_black.plt cv\_working\cadot\p0010497\dms12195\CP1-CV-L002-A12.dgn

| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|-----|----------|----|-----|-----|----------------------------|
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 05/01/15 |    |     |     | BNSF CONCEPT PLANS         |
| B   | 10/27/14 |    |     |     | FINAL FACILITY PLAN        |
| A   | 04/29/14 |    |     |     | INTERMEDIATE FACILITY PLAN |

|                           |
|---------------------------|
| DESIGNED BY<br>J. HANNA   |
| DRAWN BY<br>J. MORTON     |
| CHECKED BY<br>A. ADHIKARY |
| IN CHARGE<br>M. COOPER    |
| DATE<br>05/08/15          |



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 12 GRADE SEPARATION  
LAYOUT  
SHEET 2 OF 5

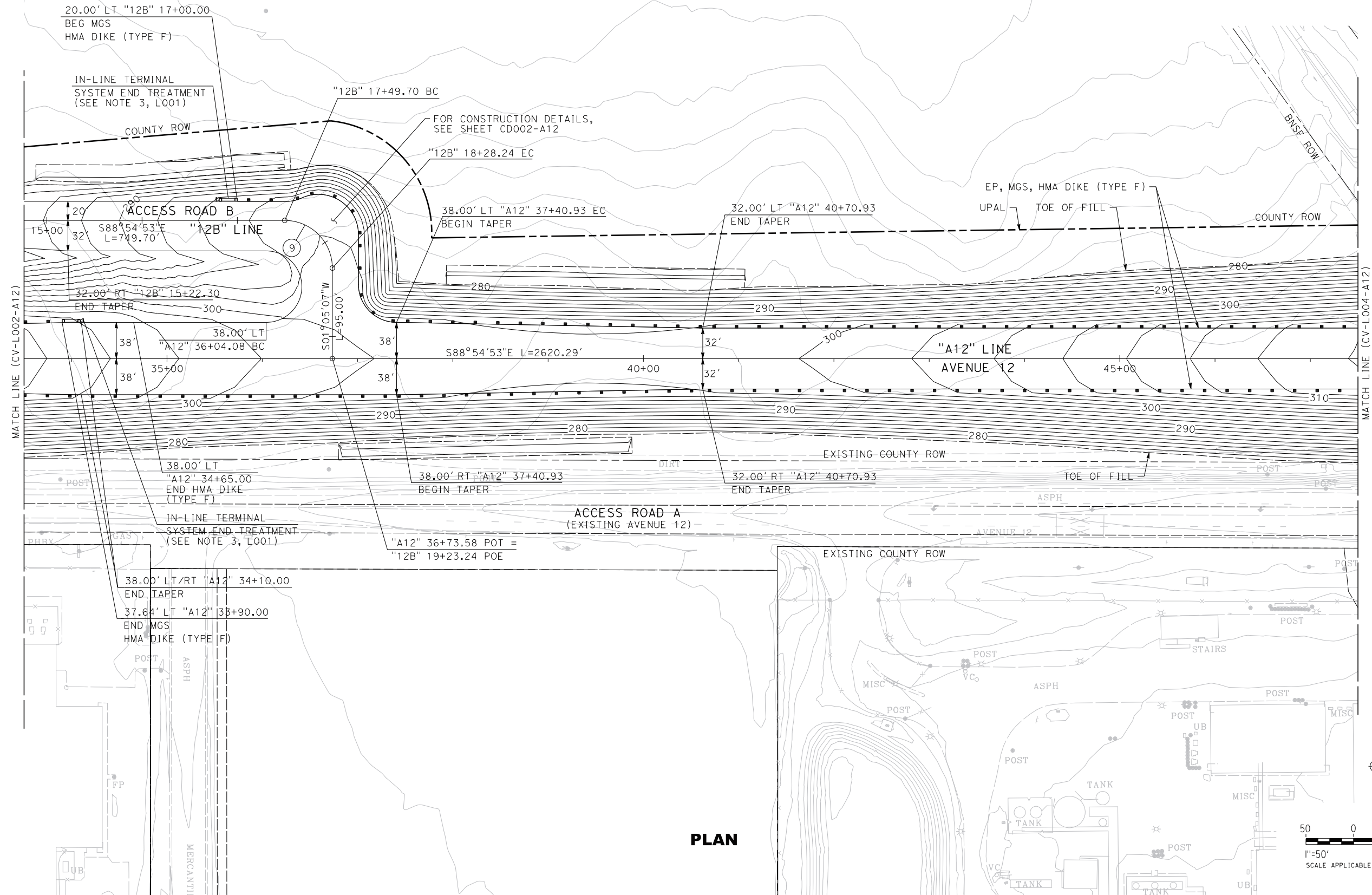
Exhibit B3-6.3

|                            |
|----------------------------|
| CONTRACT NO.<br>HSR13-06   |
| DRAWING NO.<br>CV-L002-A12 |
| SCALE<br>1" = 50'          |
| SHEET NO.<br>6             |




1. SEE SHEET CV-L001-A12 FOR NOTES.




| NO. | R      | $\Delta$    | T      | L      |
|-----|--------|-------------|--------|--------|
| ⑨   | 50.00' | 90°00'00"RT | 50.00' | 78.54' |




## PLAN

|     |          |    |     |     |                            |
|-----|----------|----|-----|-----|----------------------------|
|     |          |    |     |     | DESIGNED BY<br>J. HANNA    |
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     |
| C   | 05/01/15 |    |     |     | BNSF CONCEPT PLANS         |
| B   | 10/27/14 |    |     |     | FINAL FACILITY PLAN        |
| A   | 04/29/14 |    |     |     | INTERMEDIATE FACILITY PLAN |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                |
|     |          |    |     |     | DATE<br>05/08/15           |




  

  

  
*A joint venture*



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
CONSTRUCTION PACKAGE 1**

AVENUE 12 GRADE SEPARATION  
LAYOUT  
SHEET 3 OF 5

|              |             |
|--------------|-------------|
| CONTRACT NO. | HSR13-06    |
| DRAWING NO.  | CV-L003-A12 |
| SCALE        | 1" = 50'    |
| SHEET NO.    | 7           |



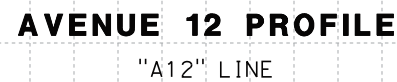
|                                |  |
|--------------------------------|--|
| "A12" AVENUE 12                |  |
| DESIGN SPEED: 55 MPH           |  |
| CLASSIFICATION: RURAL ARTERIAL |  |

|                                  |
|----------------------------------|
| "12A" ACCESS ROAD A              |
| DESIGN SPEED: 25 MPH             |
| CLASSIFICATION: RURAL LOCAL ROAD |

"12B" ACCESS ROAD B  
DESIGN SPEED: 25 MPH  
CLASSIFICATION: RURAL-LOCAL ROAD

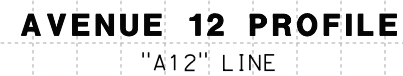
|                                  |
|----------------------------------|
| "12C" ACCESS ROAD C              |
| DESIGN SPEED: 15 MPH             |
| CLASSIFICATION: RURAL LOCAL ROAD |

1. FOR SYMBOLS, ABBREVIATIONS, AND  
LEGEND SEE CALTRANS STD PLANS A10A  
TO A10H.
2. FOR BRIDGE INFORMATION SEE  
STRUCTURAL PLANS.



|     |          |    |     |     |                            |                           |   |   |   |   |                            |
|-----|----------|----|-----|-----|----------------------------|---------------------------|---|---|---|---|----------------------------|
| O   | 05/08/15 | JH | AA  | MC  | READY FOR CONSTRUCTION     | DESIGNED BY<br>J. HANNA   |  | <br><br><br><i>A joint venture</i> |  | <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>CONSTRUCTION PACKAGE 1</b><br><br>AVENUE 12 GRADE SEPARATION<br>PROFILES<br>SHEET 1 OF 5 | CONTRACT NO.<br>HSR13-06   |
| C   | 05/01/15 |    |     |     | BNSF CONCEPT PLANS         | DRAWN BY<br>J. MORTON     |   |   |   |   | DRAWING NO.<br>CV-P001-A12 |
| B   | 10/27/14 |    |     |     | FINAL FACILITY PLAN        | CHECKED BY<br>A. ADHIKARY |   |   |   |   | SCALE<br>AS SHOWN          |
| A   | 04/29/14 |    |     |     | INTERMEDIATE FACILITY PLAN | IN CHARGE<br>M. COOPER    |   |   |   |   | SHEET NO.<br>10            |
| REV | DATE     | BY | CHK | APP | DESCRIPTION                | DATE<br>05/08/15          |   |   |   |   |                            |

1. SEE SHEET CV-P001-A12 FOR NOTES.



|             |             |
|-------------|-------------|
| DESIGNED BY | J. HANNA    |
| DRAWN BY    | J. MORTON   |
| CHECKED BY  | A. ADHIKARY |
| IN CHARGE   | M. COOPER   |
| DATE        | 05/08/15    |



AVENUE 12 GRADE SEPARATION  
PROFILES  
SHEET 2 OF 5

Exhibit B3-6.6