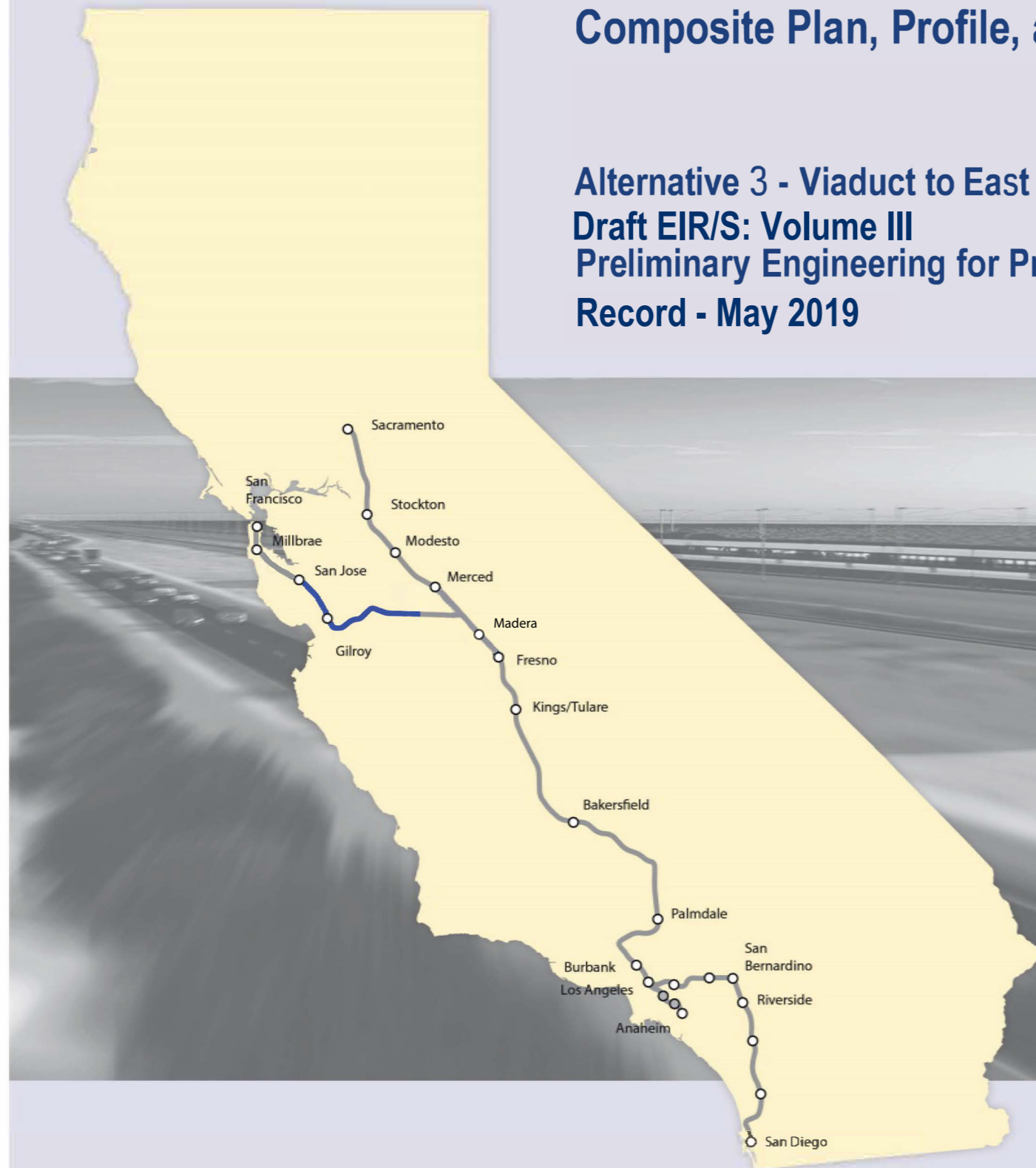


California High-Speed Rail Authority

# San Jose to Merced Section: San Jose to Central Valley Wye

Composite Plan, Profile, and Cross Sections; Stations

Alternative 3 - Viaduct to East Gilroy  
Draft EIR/S: Volume III  
Preliminary Engineering for Project Definition  
Record - May 2019



**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 30 - 74 OF 216**

**ALTERNATIVE 3 - VIADUCT TO EAST GILROY**

BOOK	SHEET NO	DRAWING NO	SUBSECTION	GEOGRAPHIC LOCATION	ALIGNMENT OR FEATURE	SHEET DESCRIPTION	ADDITIONAL DESCRIPTION
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**COVER, INDEX OF DRAWING AND KEY MAPS**

BOOK 3B	A	COVER	SAN JOSE TO MERCED SECTION	N/A	SAN JOSE TO CENTRAL VALLEY WYE	ALTERNATIVE 3	VIADUCT TO EAST GILROY
BOOK 3B	B	GE-A0302	PACHECO PASS, SAN JOAQUIN VALLEY	SR 152 TO CARLUCCI ROAD	INDEX OF DRAWING	SHEET 2 OF 7	
BOOK 3B	C	GE-A0303	SAN JOSE DIRIDON STATION APPROACH, MORGAN HILL AND GILROY	STATIONS	INDEX OF DRAWING	SHEET 3 OF 7	
BOOK 3B	D	GE-D0301	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	
BOOK 3B	E	GE-D0302	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	SYSTEMS SITES	

**COMPOSITE PLANS**

**PACHECO PASS**

BOOK 3B	30	TT-D1401	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B2362+00 TO B3205+00
BOOK 3B	31	TT-D1402	PACHECO PASS	SERVICE ROAD 1	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3205+00 TO B3295+00
BOOK 3B	32	TT-D1403	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3295+00 TO B3385+00
BOOK 3B	33	TT-D1404	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3385+00 TO B3475+00
BOOK 3B	34	TT-D1405	PACHECO PASS	SR 152	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3475+00 TO B3565+00
BOOK 3B	35	TT-D1406	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3565+00 TO B3655+00
BOOK 3B	36	TT-D1407	PACHECO PASS	SR 152	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3655+00 TO B3745+00
BOOK 3B	37	TT-D1408	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3745+00 TO B3835+00
BOOK 3B	38	TT-D1409	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3835+00 TO B3923+00
BOOK 3B	39	TT-D1410	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B3923+00 TO B4014+00
BOOK 3B	40	TT-D1411	PACHECO PASS	MCCABE RD	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4014+00 TO B4105+00
BOOK 3B	41	TT-D1412	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4105+00 TO B4196+00
BOOK 3B	42	TT-D1413	PACHECO PASS	N/A	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4196+00 TO B4287+00
BOOK 3B	43	TT-D1414	PACHECO PASS	ROMERO RD N TO SR 33	TUNNEL	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4287+00 TO B4372+00

**SAN JOAQUIN VALLEY**

BOOK 3B	44	TT-D1601	SAN JOAQUIN VALLEY	FAHEY RD	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4372+00 TO B4445+00
BOOK 3B	45	TT-D1602	SAN JOAQUIN VALLEY	CCID MAIN CANAL	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4445+00 TO B4533+00
BOOK 3B	46	TT-D1603	SAN JOAQUIN VALLEY	INGOMAR GRADE RD	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4533+00 TO B4614+00
BOOK 3B	47	TT-D1604	SAN JOAQUIN VALLEY	VOLTA RD TO HENRY MILLER RD	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4614+00 TO B4686+00
BOOK 3B	48	TT-D1605	SAN JOAQUIN VALLEY	MONROE AVE	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4686+00 TO B4758+00
BOOK 3B	49	TT-D1606	SAN JOAQUIN VALLEY	BADGER FLAT RD TO NANTES AVE	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4758+00 TO B4846+00
BOOK 3B	50	TT-D1607	SAN JOAQUIN VALLEY	SR 165 TO SANTA FE GRADE	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4846+00 TO B4932+00
BOOK 3B	51	TT-D1608	SAN JOAQUIN VALLEY	N/A	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B4932+00 TO B5020+00
BOOK 3B	52	TT-D1609	SAN JOAQUIN VALLEY	BAKER RD TO DELTA RD	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B5020+00 TO B5109+00
BOOK 3B	53	TT-D1610	SAN JOAQUIN VALLEY	MIDWAY RD TO BOX CAR RD	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B5109+00 TO B5193+00
BOOK 3B	54	TT-D1611	SAN JOAQUIN VALLEY	TURNER ISLAND RD	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B5193+00 TO B5282+00
BOOK 3B	55	TT-D1612	SAN JOAQUIN VALLEY	CARLUCCI RD	HENRY MILLER ROAD	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B5282+00 TO B5366+28.52

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET B**

\$USER \$ DATE \$ TIME \$ \$PLTDRVS \$ \$PENTBL \$ \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

**RECORD PEPD  
SUBMITTAL**  
  
**MAY 3, 2019**  
  
**NOT FOR  
CONSTRUCTION**

**HNTB**  
1111 Broadway  
9th Floor  
Oakland, CA 94607



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN JOSE TO MERCED**  
ALTERNATIVE 3  
INDEX OF DRAWING  
SHEET 2 OF 7

CONTRACT NO.	HSR15-34
DRAWING NO.	GE-A0302
SCALE	NONE
SHEET NO.	

**ALTERNATIVE 3 - VIADUCT TO EAST GILROY**

BOOK	SHEET NO	DRAWING NO	SUBSECTION	GEOGRAPHIC LOCATION	ALIGNMENT OR FEATURE	SHEET DESCRIPTION	ADDITIONAL DESCRIPTION
<b>STATIONS</b>							
BOOK 3B	56	AR-C0101	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST TO PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	CONCEPTUAL SITE PLAN
BOOK 3B	57	AR-C0102	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST TO PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	DETAILED SITE PLAN
BOOK 3B	58	AR-F0101	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST TO PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	CONCOURSE PLAN
BOOK 3B	59	AR-Y0101	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST TO PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	CROSS SECTION
BOOK 3B	60	AR-Y0102	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST TO PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	MASSING DIAGRAM
BOOK 3B	61	AR-Y0103	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST TO PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	MASSING DIAGRAM
BOOK 3B	62	AR-Y0104	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	FACILITY SIZING TABLE
BOOK 3B	63	AR-Y0105	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	FACILITY SIZING TABLE
BOOK 3B	64	AR-Y0106	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	FACILITY SIZING TABLE
BOOK 3B	65	AR-Y0107	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	FACILITY SIZING TABLE
BOOK 3B	66	AR-C1101	MORGAN HILL AND GILROY	LAS ANIMAS AVE TO LEAVESLEY RD	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	CONCEPTUAL SITE PLAN
BOOK 3B	67	AR-C1102	MORGAN HILL AND GILROY	LEAVESLEY RD	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	DETAILED SITE PLAN
BOOK 3B	68	AR-F1101	MORGAN HILL AND GILROY	N/A	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	CONCOURSE PLAN
BOOK 3B	69	AR-Y1101	MORGAN HILL AND GILROY	N/A	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	CROSS SECTION
BOOK 3B	70	AR-Y1102	MORGAN HILL AND GILROY	N/A	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	MASSING DIAGRAM
BOOK 3B	71	AR-Y1103	MORGAN HILL AND GILROY	N/A	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	MASSING DIAGRAM
BOOK 3B	72	AR-Y1104	MORGAN HILL AND GILROY	N/A	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	FACILITY SIZING TABLE
BOOK 3B	73	AR-Y1105	MORGAN HILL AND GILROY	N/A	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	FACILITY SIZING TABLE
BOOK 3B	74	AR-Y1106	MORGAN HILL AND GILROY	N/A	VIADUCT TO EAST GILROY	EAST GILROY STATION - VIADUCT	FACILITY SIZING TABLE

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET C**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

**RECORD PEPD  
SUBMITTAL**

**MAY 3, 2019**

**NOT FOR  
CONSTRUCTION**

**HNTB** 1111 Broadway  
9th Floor  
Oakland, CA 94607



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN JOSE TO MERCED**

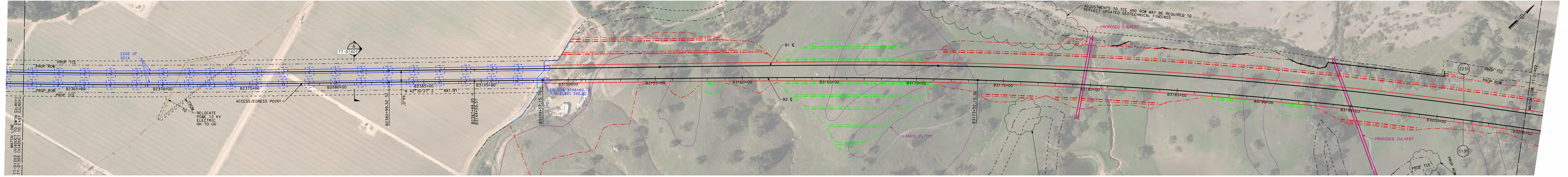
ALTERNATIVE 3  
INDEX OF DRAWING  
SHEET 3 OF 7

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DRAWING NO. GE-A0303
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SHEET NO.

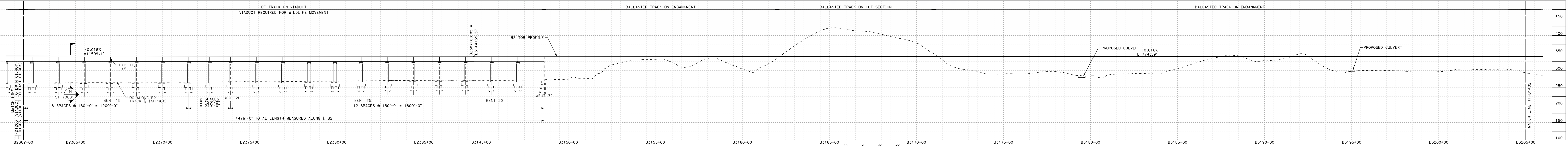




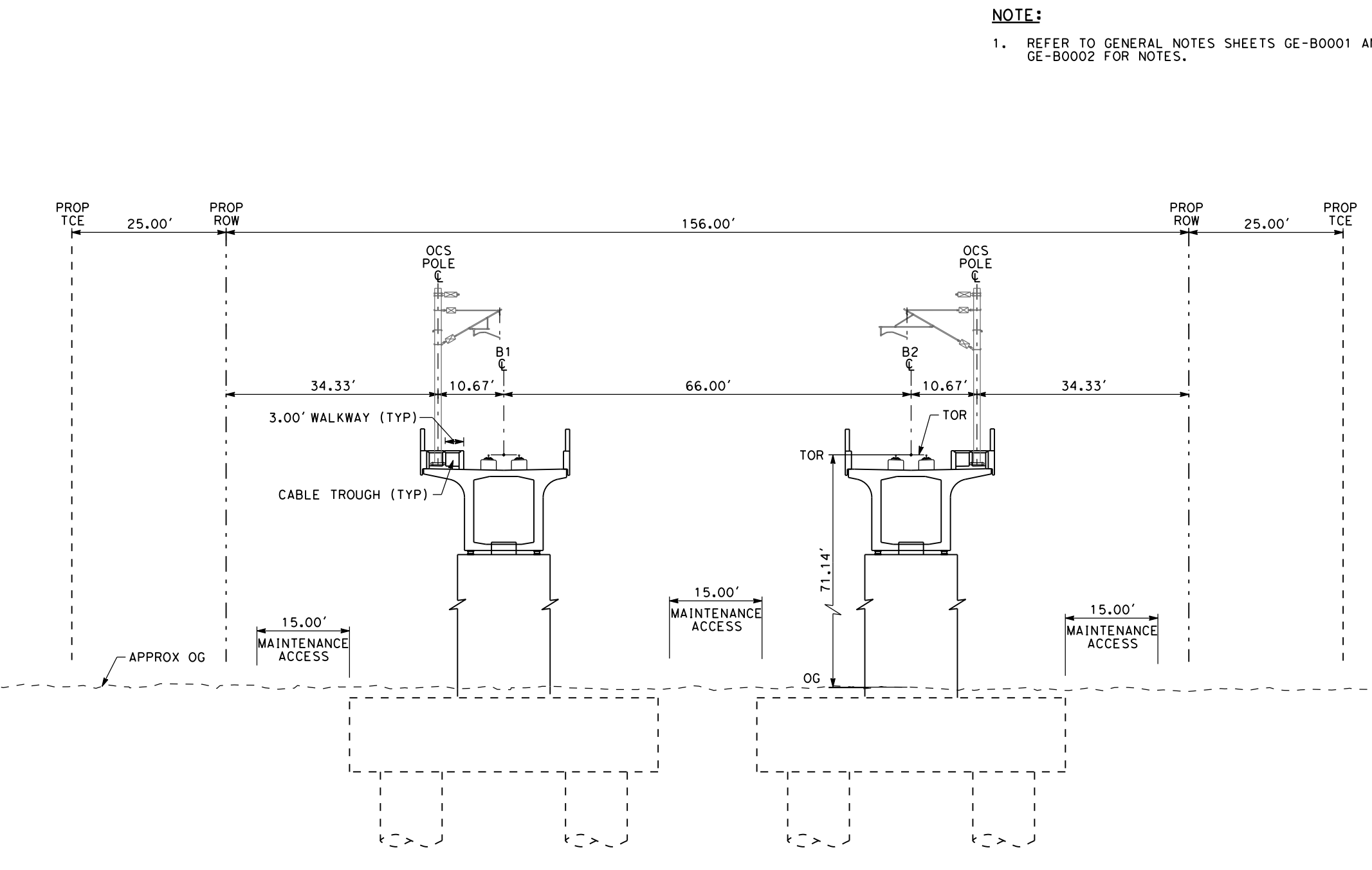
**SANTA CLARA COUNTY**



**PLAN**  
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1"=200' HOR



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=300' VERT

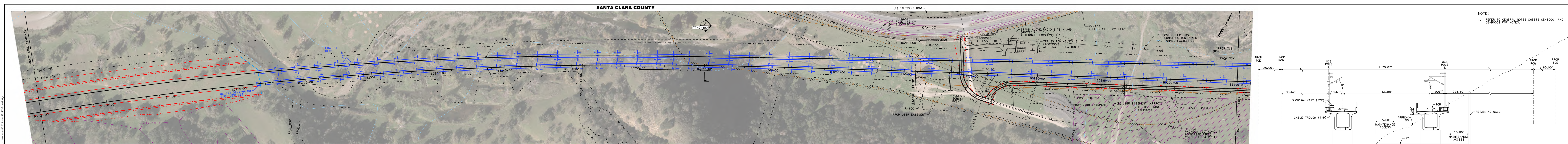


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"B" 2381+00

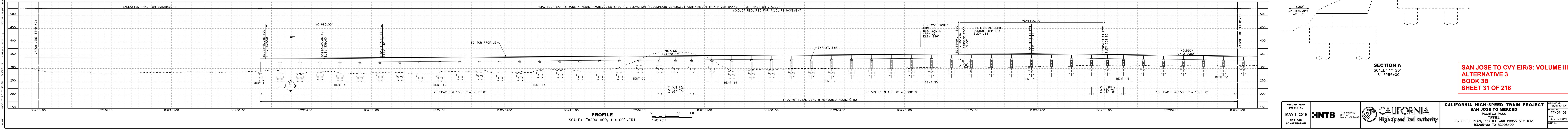
**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 30 OF 216**

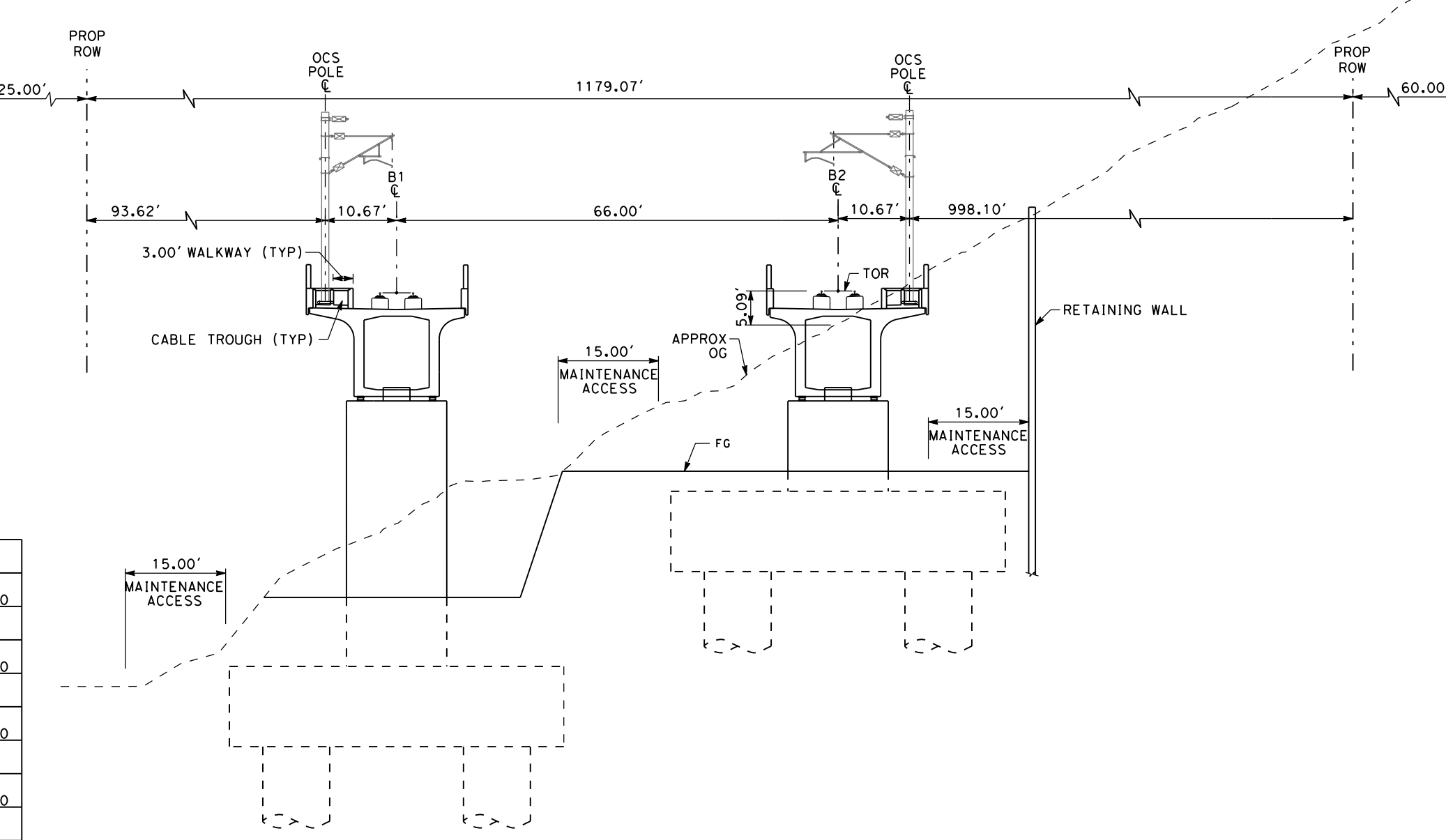
<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B2362+00 TO B3205+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1401 SCALE AS SHOWN SHEET NO.</p>
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**PLAN**  
SCALE: 1"=200'  
1"=200' HOR



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT



**SECTION A**  
SCALE: 1"=20'  
"B" 3255+00

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 31 OF 216**

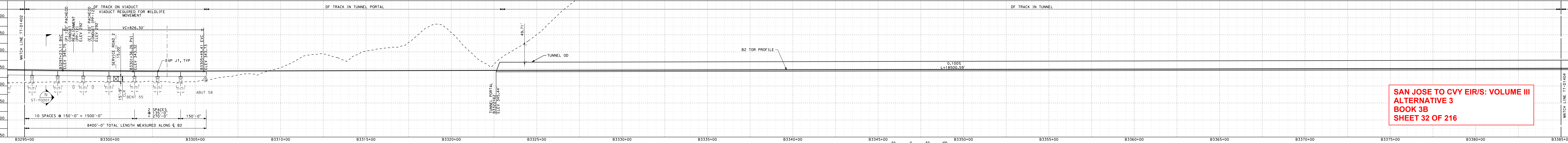
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<b>RECORD PERM SUBMITTAL</b> MAY 3, 2019 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B3205+00 TO B3295+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1402 SCALE AS SHOWN SHEET NO.
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**SANTA CLARA COUNTY**

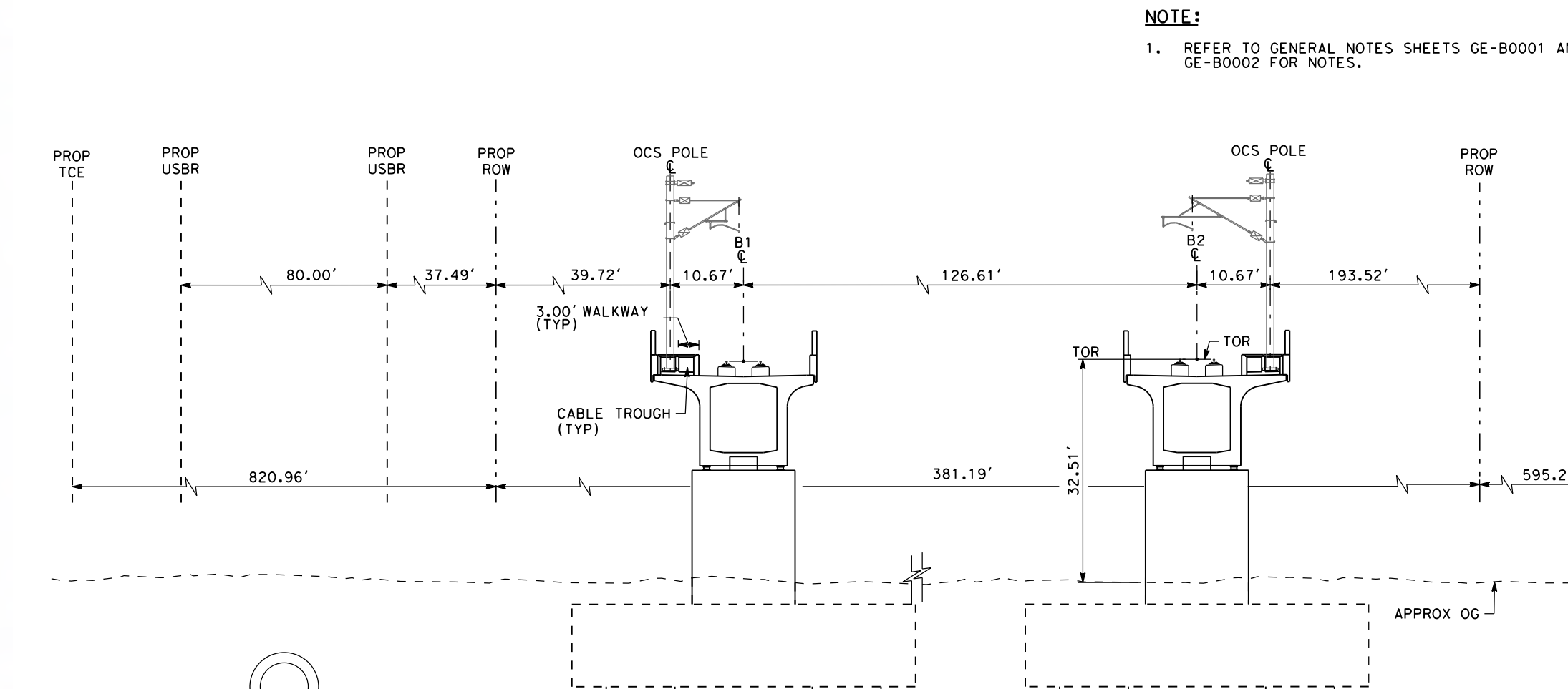


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1"=200' HOR

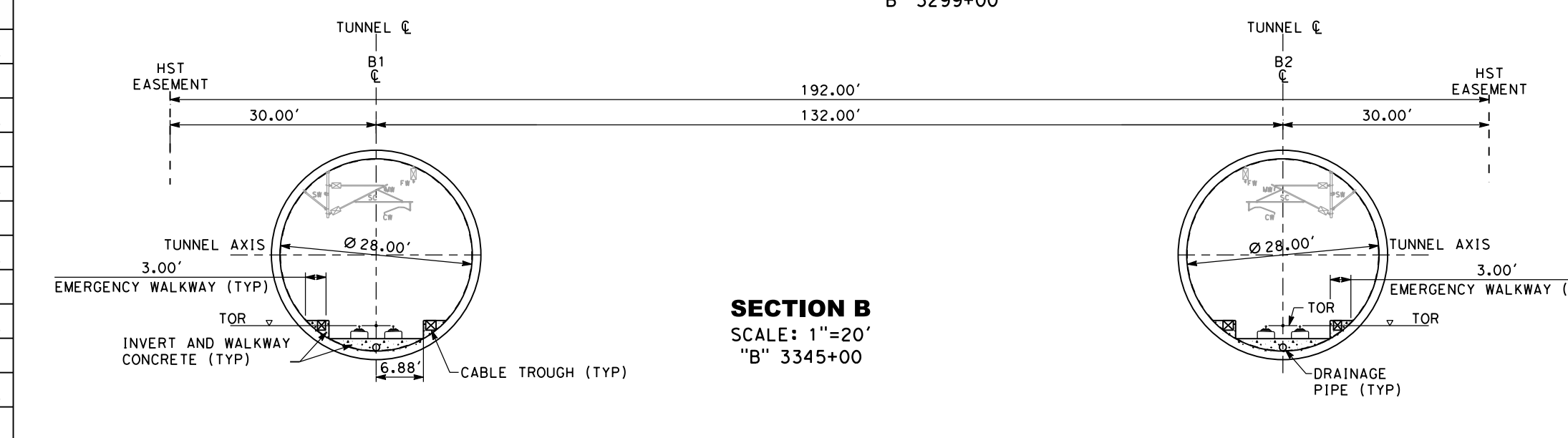


**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT

**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 32 OF 216**



**SECTION A**  
SCALE: 1"=20'  
"B" 3299+00



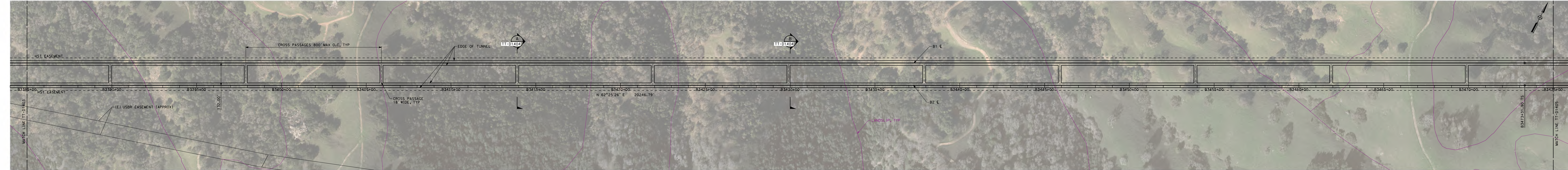
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"B" 3345+00

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

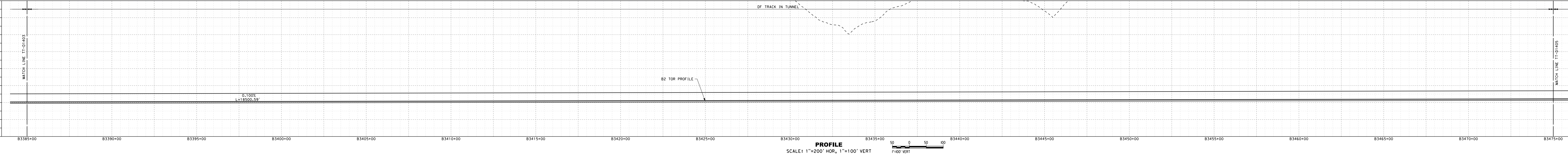
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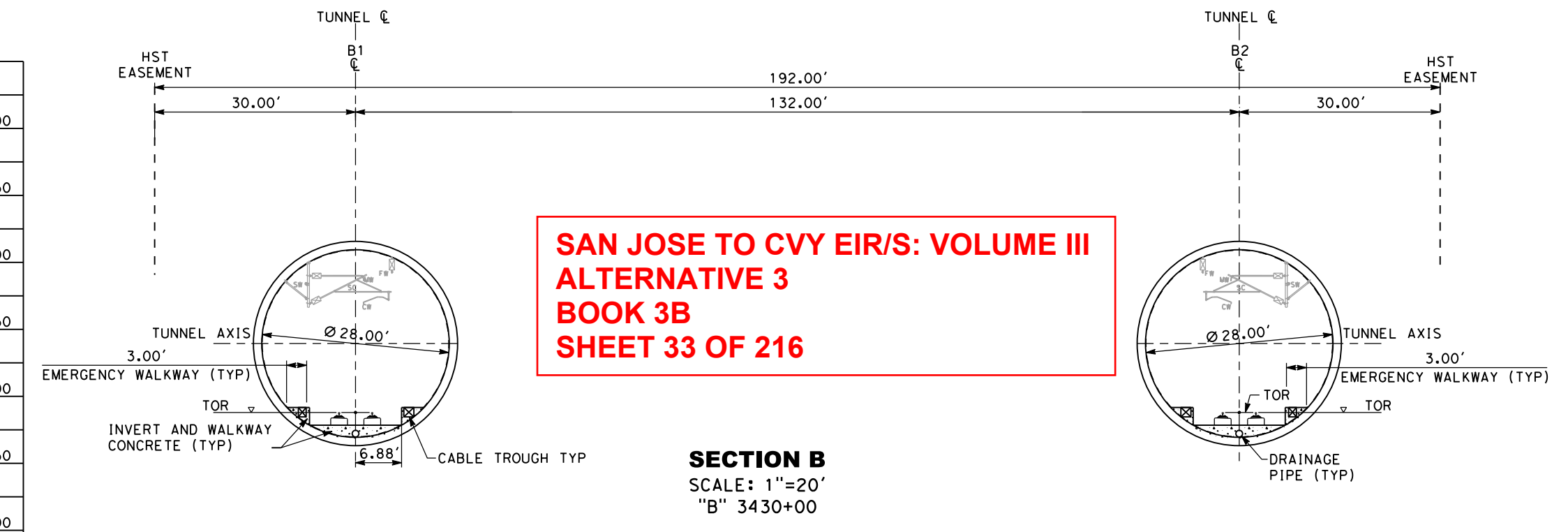
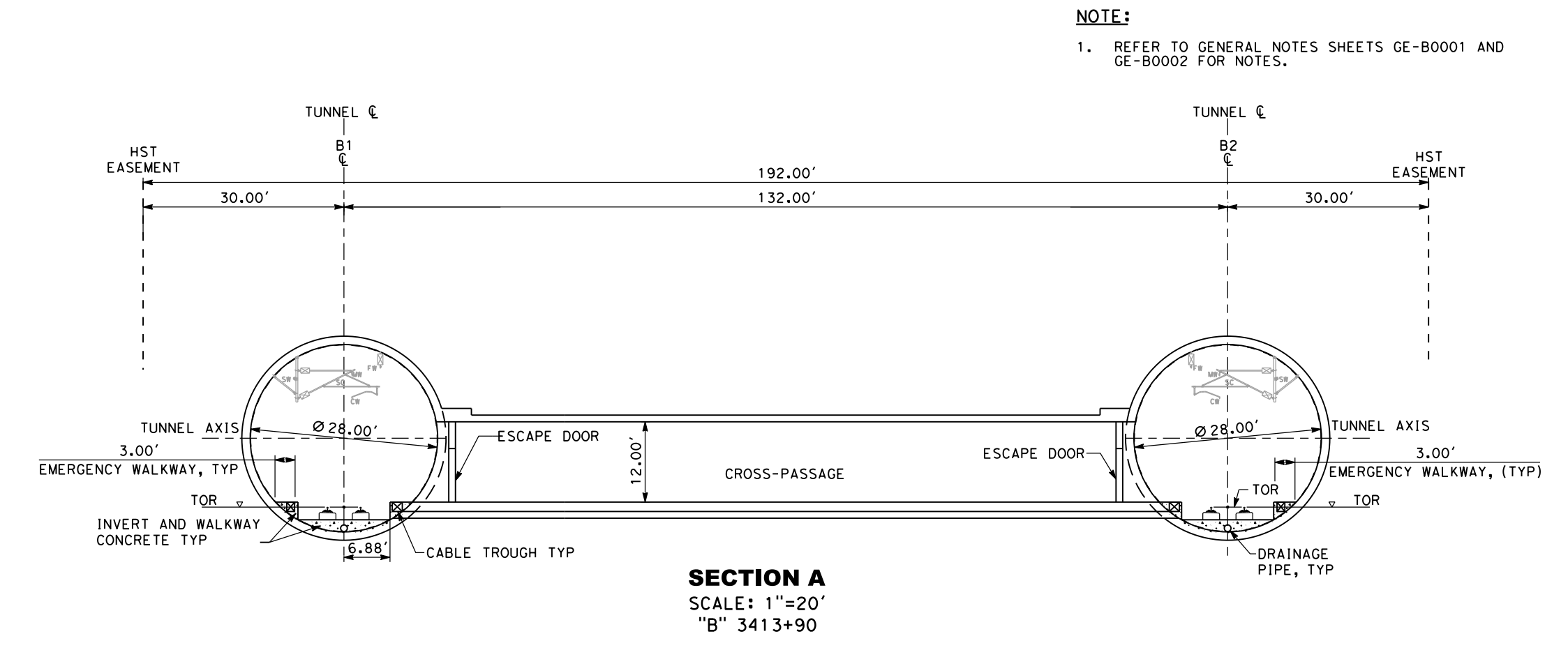
SANTA CLARA COUNTY



**PLAN**  
SCALE: 1"=200'  
1"=200' HOR

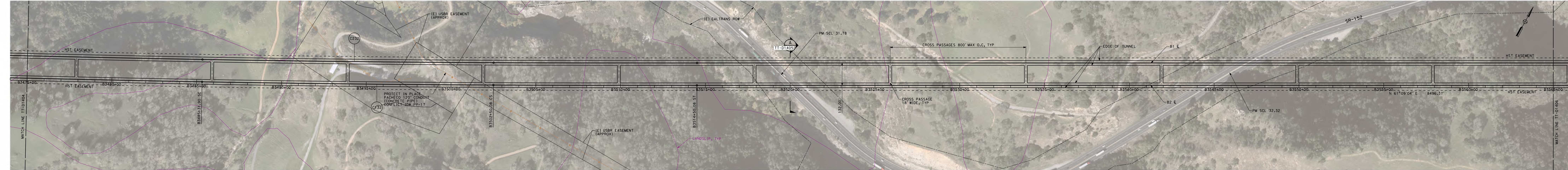


**PROFILE**  
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1"=100' VERT

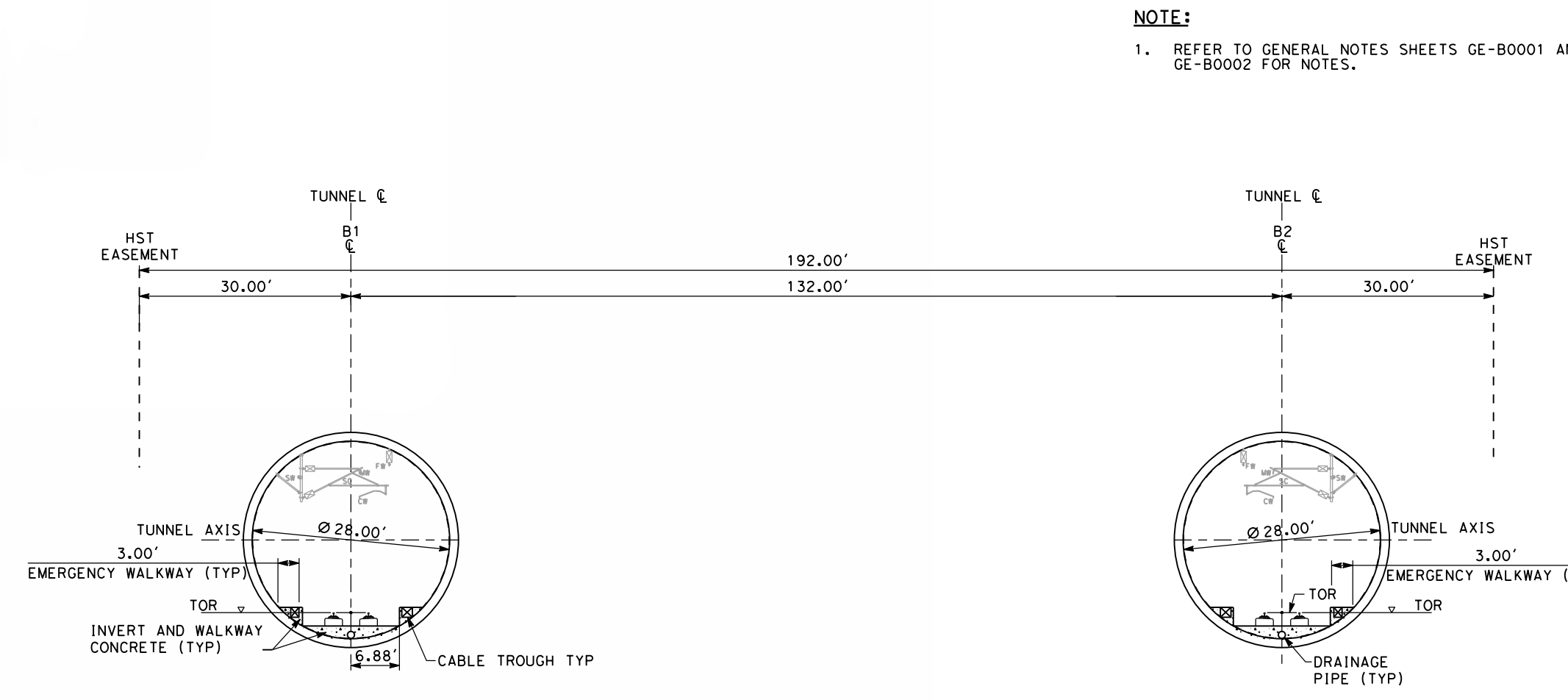
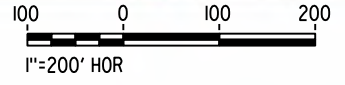


**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 33 OF 216**

<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B3385+00 TO B3475+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1404 SCALE: AS SHOWN SHEET NO.</p>
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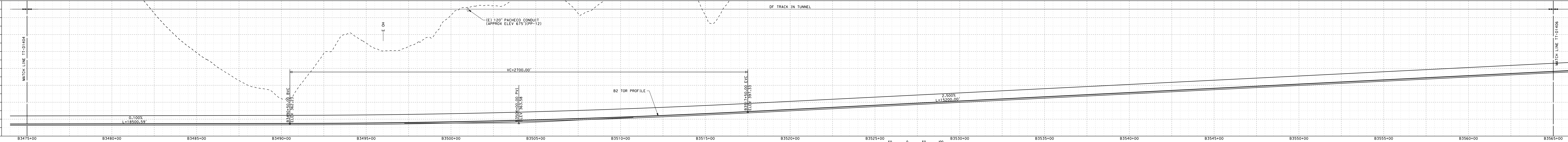


**PLAN**  
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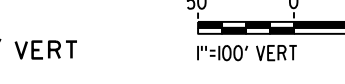


**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

**SECTION A**  
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"B" 3520+00



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT



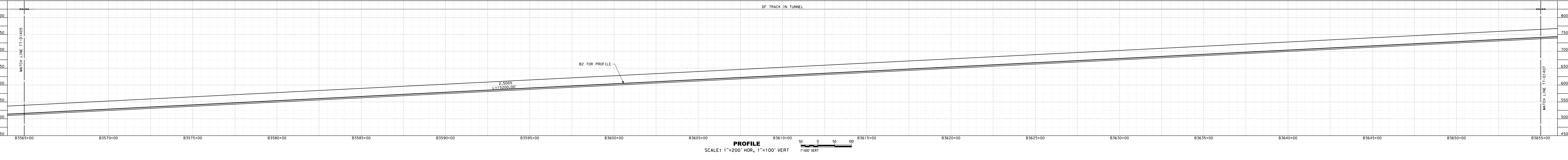
**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 34 OF 216**

RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION	1111 Broadway 9th Floor Oakland, CA 94607	CALIFORNIA High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> SAN JOSE TO MERCED PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B3475+00 TO B3565+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1405 SCALE AS SHOWN SHEET NO.
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**SANTA CLARA COUNTY**

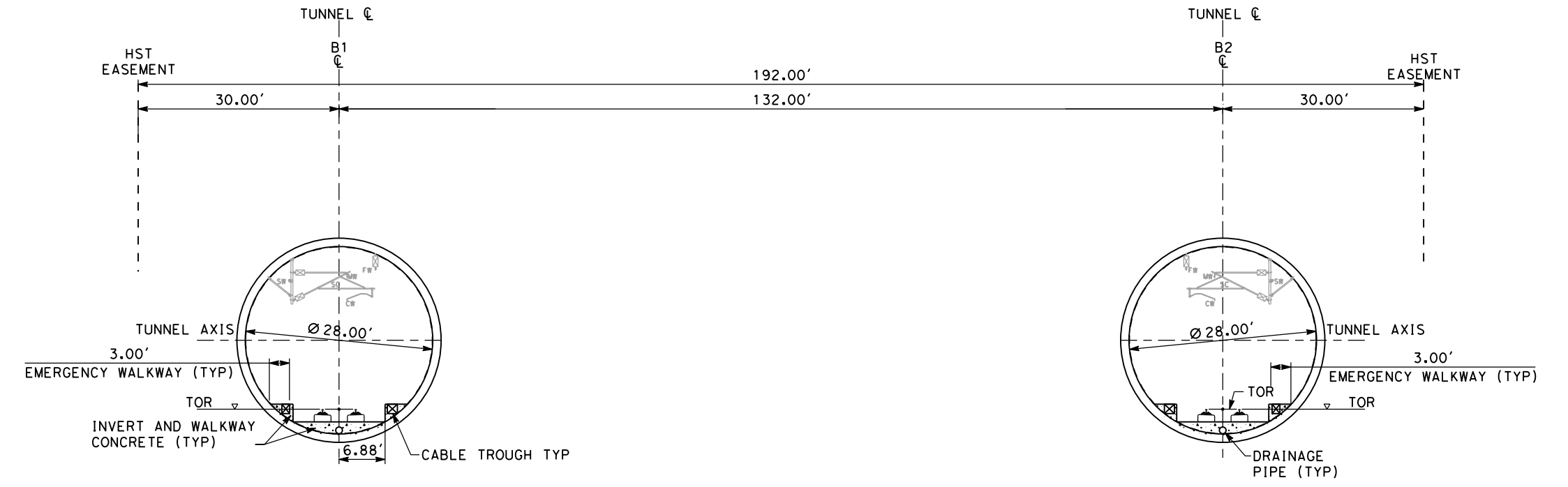


**PLAN**  
SCALE: 1"=200'



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.



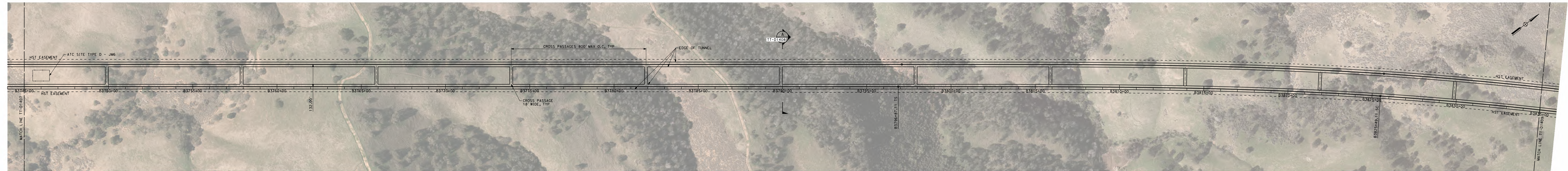
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SCALE: 1"=20'  
"B" 3620+00

**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 35 OF 216**

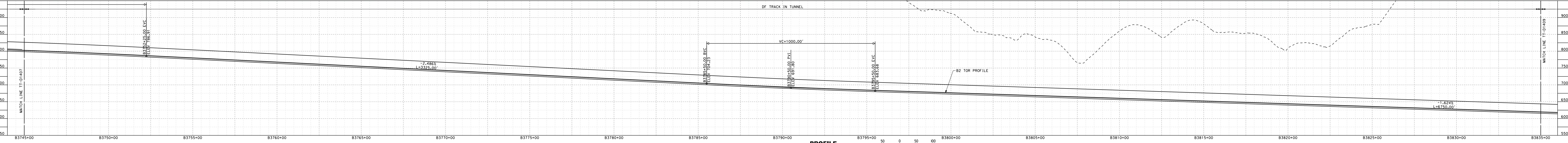
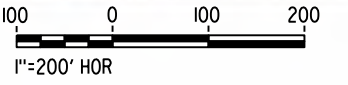
<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> TUNNEL PACHECO PASS COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B3565+00 TO B3655+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1406 SCALE AS SHOWN SHEET NO.</p>
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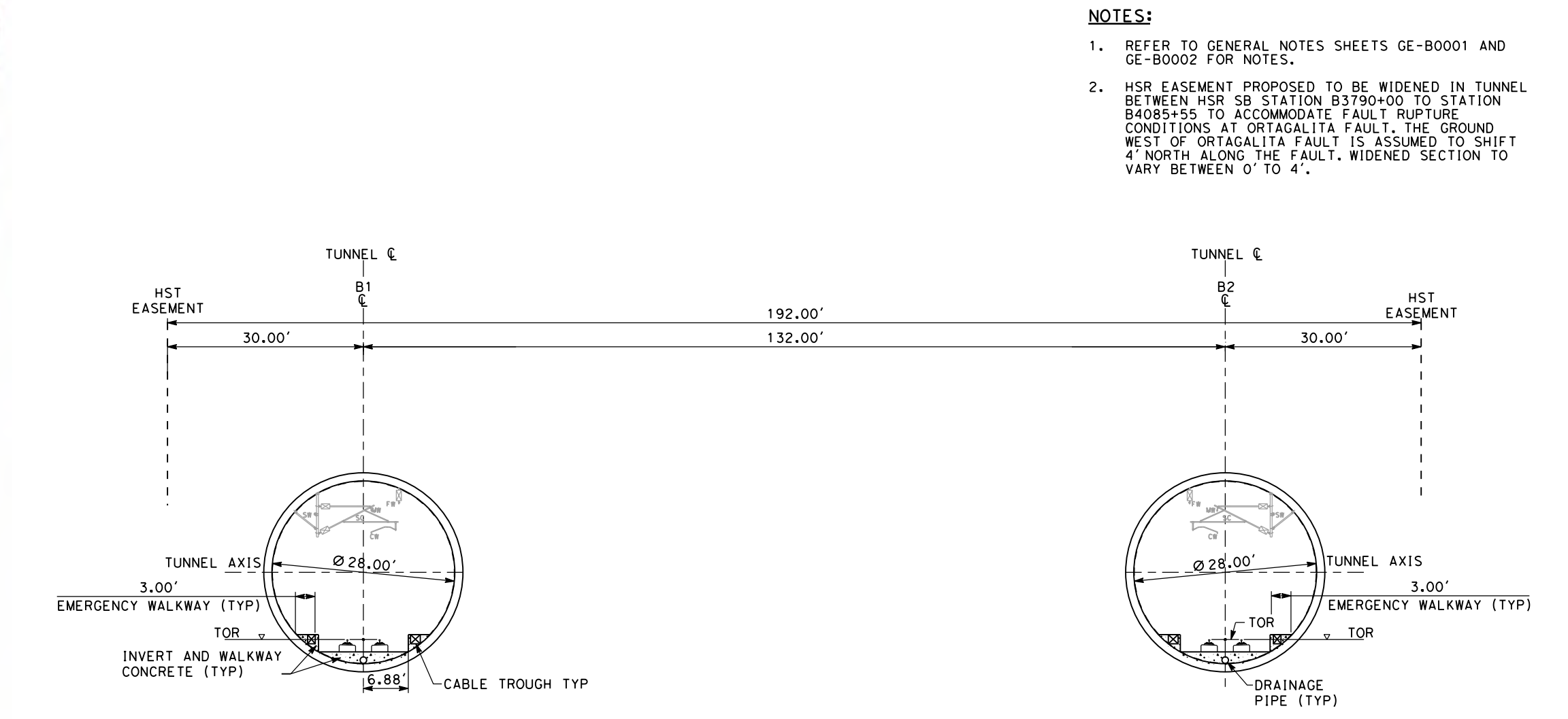
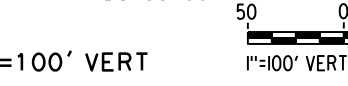
MERCED COUNTY



**PLAN**  
SCALE: 1"=200'



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT



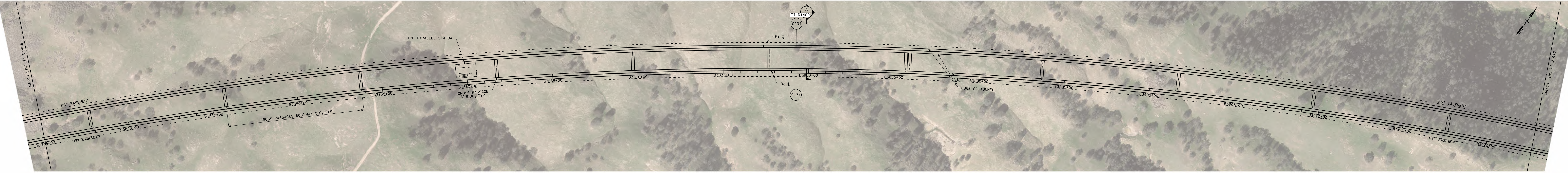
**SECTION A**  
SCALE: 1"=20'  
"B" 3790+00

- NOTES:**
- REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.
  - HSR EASEMENT PROPOSED TO BE WIDENED IN TUNNEL BETWEEN HSR SB STATION B3790+00 TO STATION B4085+55 TO ACCOMMODATE FAULT RUPTURE CONDITIONS AT ORTIGALITA FAULT. THE GROUND WEST OF ORTIGALITA FAULT IS ASSUMED TO SHIFT 4' NORTH ALONG THE FAULT. WIDENED SECTION TO VARY BETWEEN 0' TO 4'.

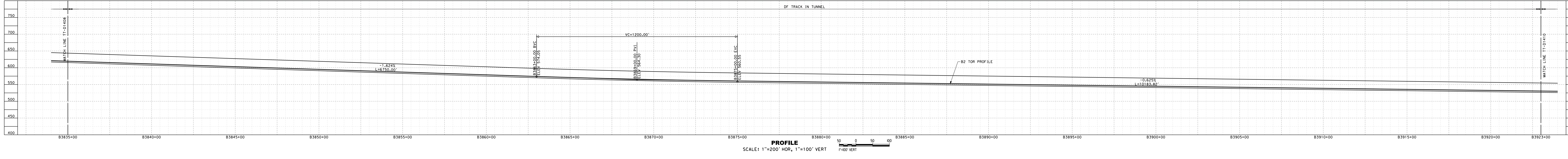
**SAN JOSE TO CVY EIRIS: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 37 OF 216**

<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B3745+00 TO B3835+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1408 SCALE: AS SHOWN SHEET NO.</p>
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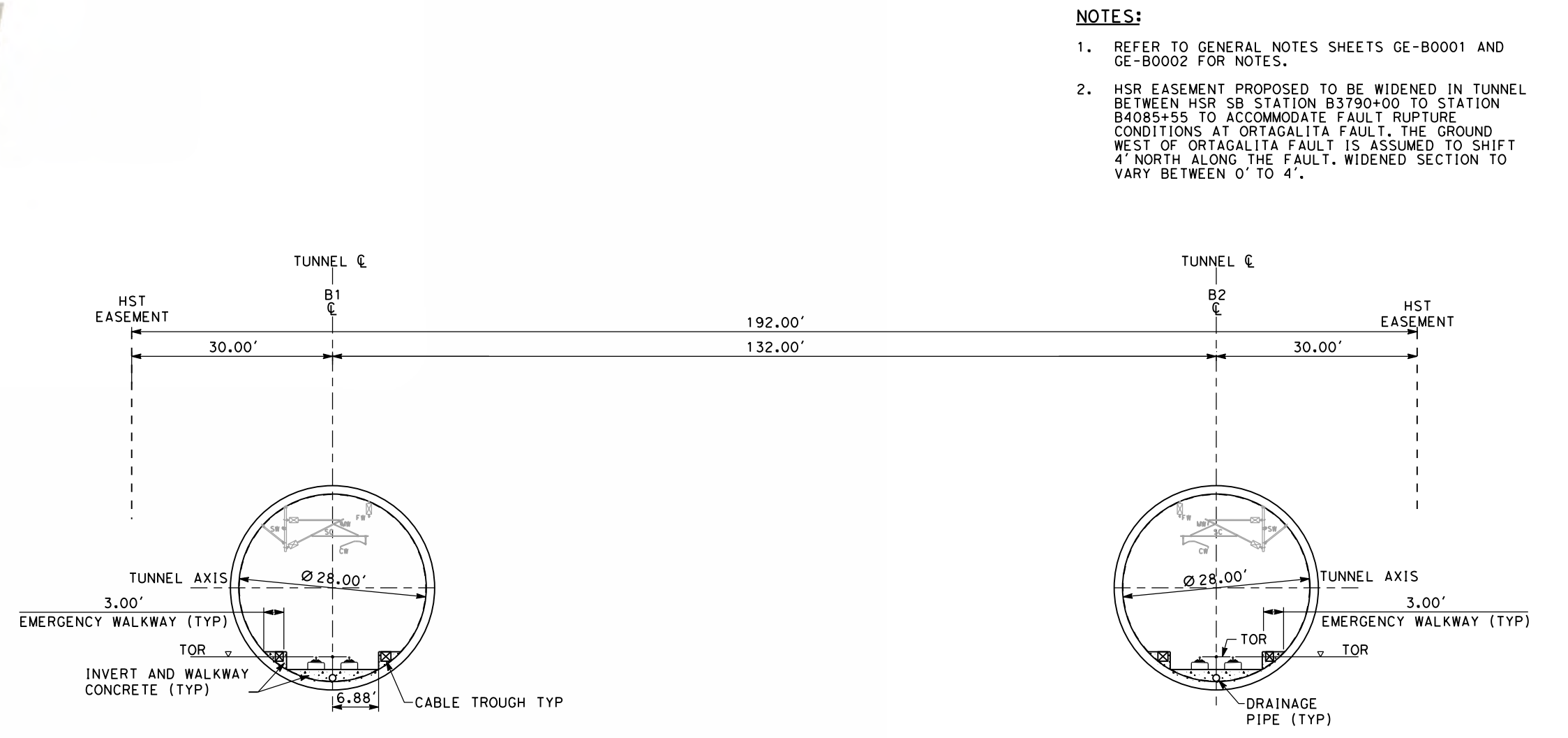
MERCED COUNTY



**PLAN**  
SCALE: 1"=200'  
1"=200' HOR



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT



**SECTION A**  
SCALE: 1"=20'  
"B" 3879+87.70

- NOTES:**
- REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.
  - HSR EASEMENT PROPOSED TO BE WIDENED IN TUNNEL BETWEEN HSR SB STATION B3790+00 TO STATION B4085+55 TO ACCOMMODATE FAULT RUPTURE CONDITIONS AT ORTIGALITA FAULT. THE GROUND WEST OF ORTIGALITA FAULT IS ASSUMED TO SHIFT 4' NORTH ALONG THE FAULT. WIDENED SECTION TO VARY BETWEEN 0' TO 4'.

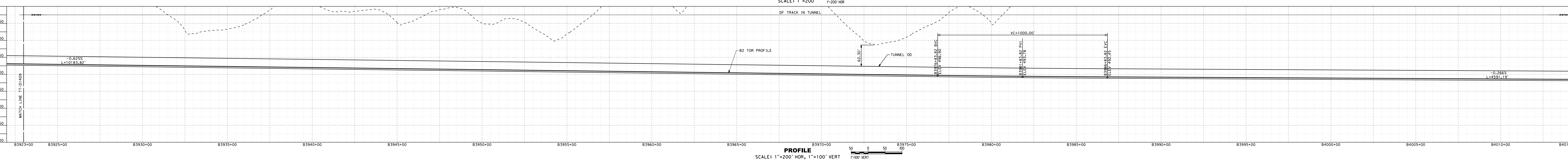
**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 38 OF 216**

<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B3835+00 TO B3923+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1409 SCALE: AS SHOWN SHEET NO.</p>
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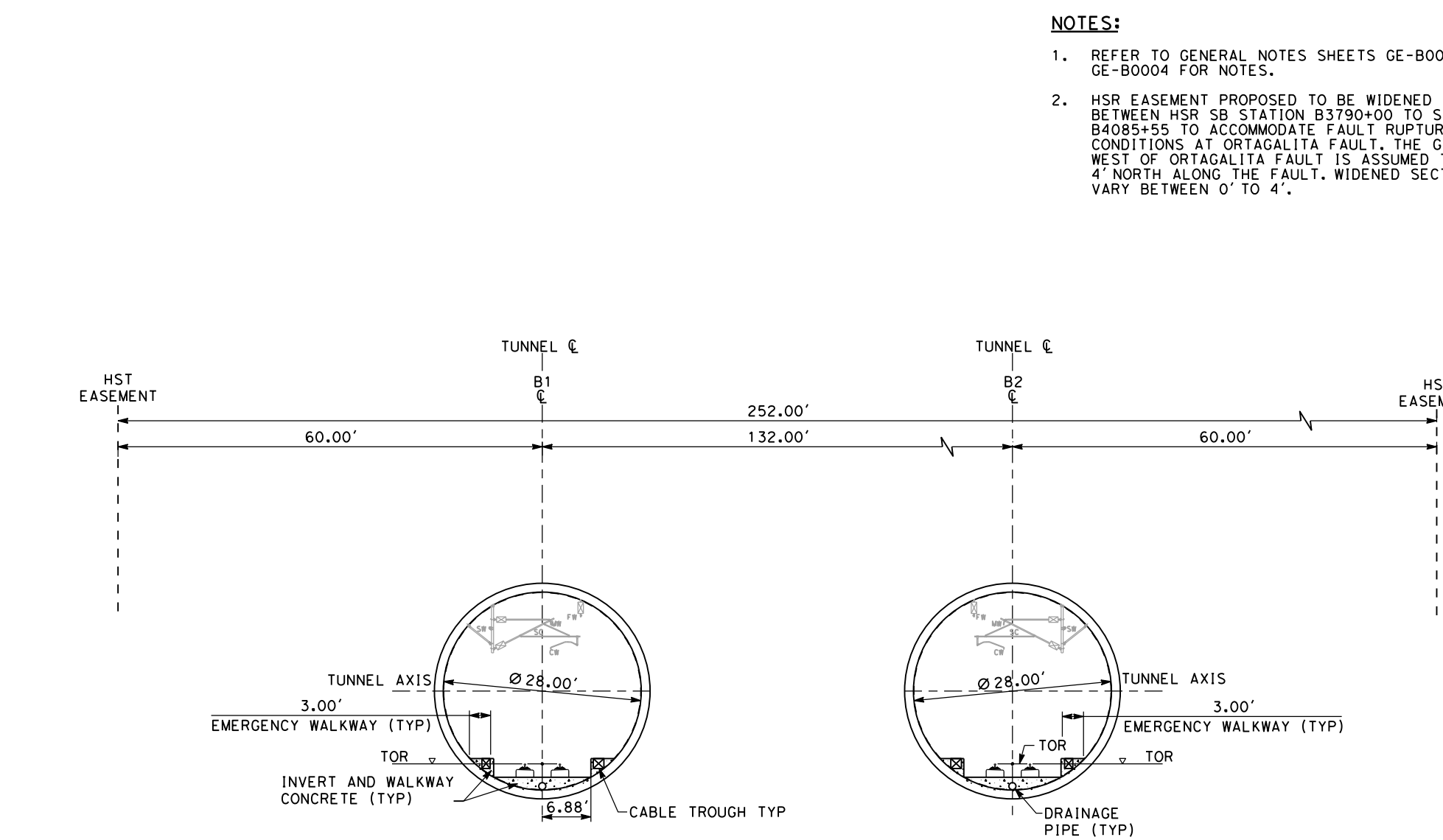
MERCED COUNTY



**PLAN**  
SCALE: 1"=200'



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT



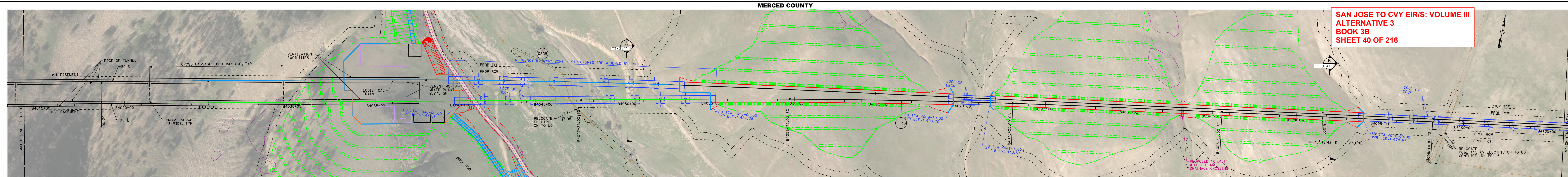
**SECTION A**  
SCALE: 1"=20'  
"B" 3995+00

- NOTES:**
- REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0004 FOR NOTES.
  - HSR EASEMENT PROPOSED TO BE WIDENED IN TUNNEL BETWEEN HSR SB STATION B3790+00 TO STATION B4085+55 TO ACCOMMODATE FAULT RUPTURE CONDITIONS AT ORTIGALITA FAULT. THE GROUND WEST OF ORTIGALITA FAULT IS ASSUMED TO SHIFT 4' NORTH ALONG THE FAULT. WIDENED SECTION TO VARY BETWEEN 0' TO 4'.

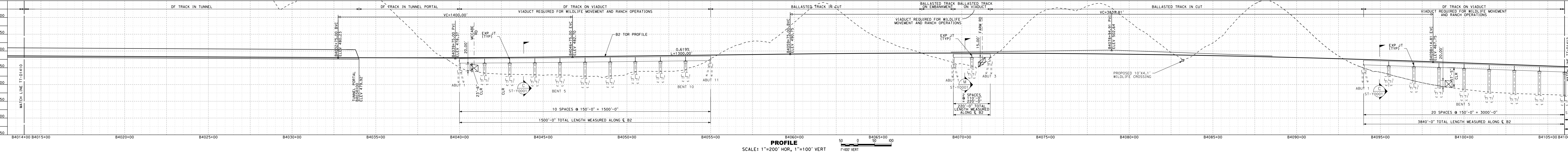
**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 39 OF 216**

<p>RECORD PERM SUBMITTAL MAY 3, 2019</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B3923+00 TO B4014+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1410 SCALE AS SHOWN SHEET NO.</p>
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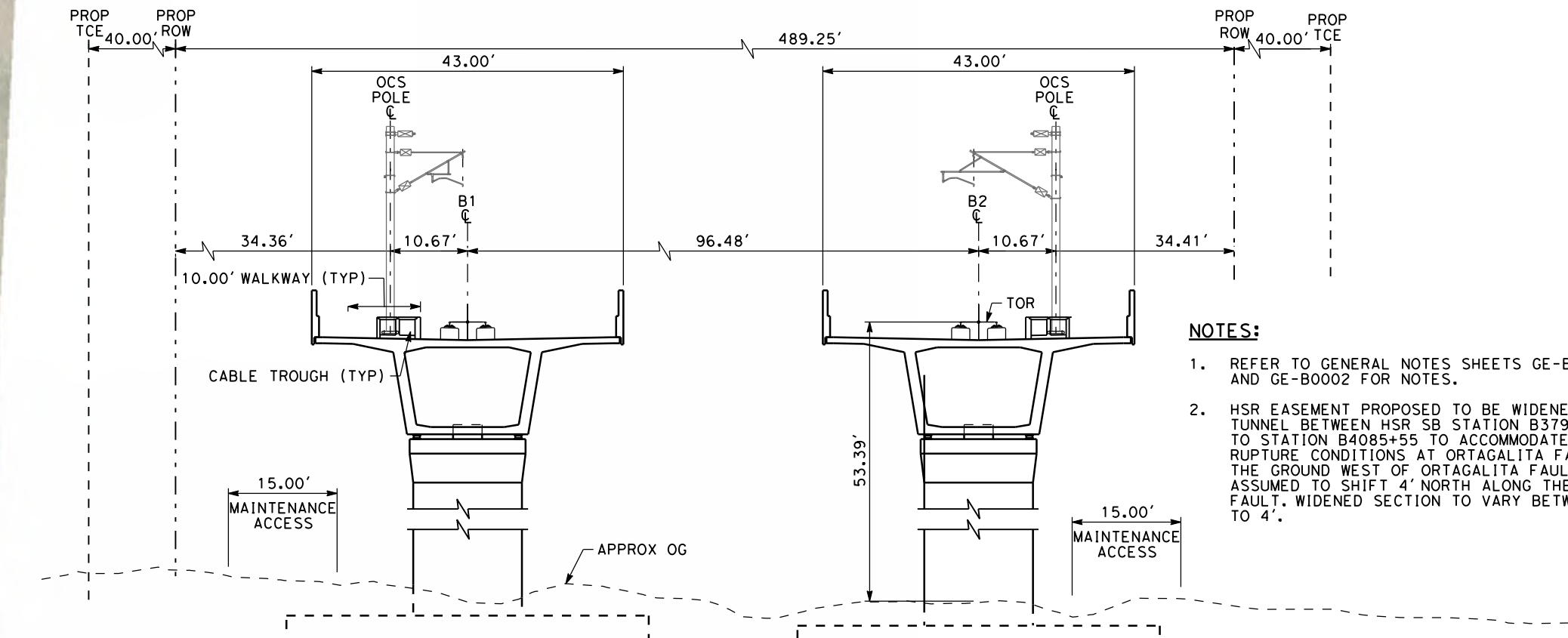
**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 40 OF 216**



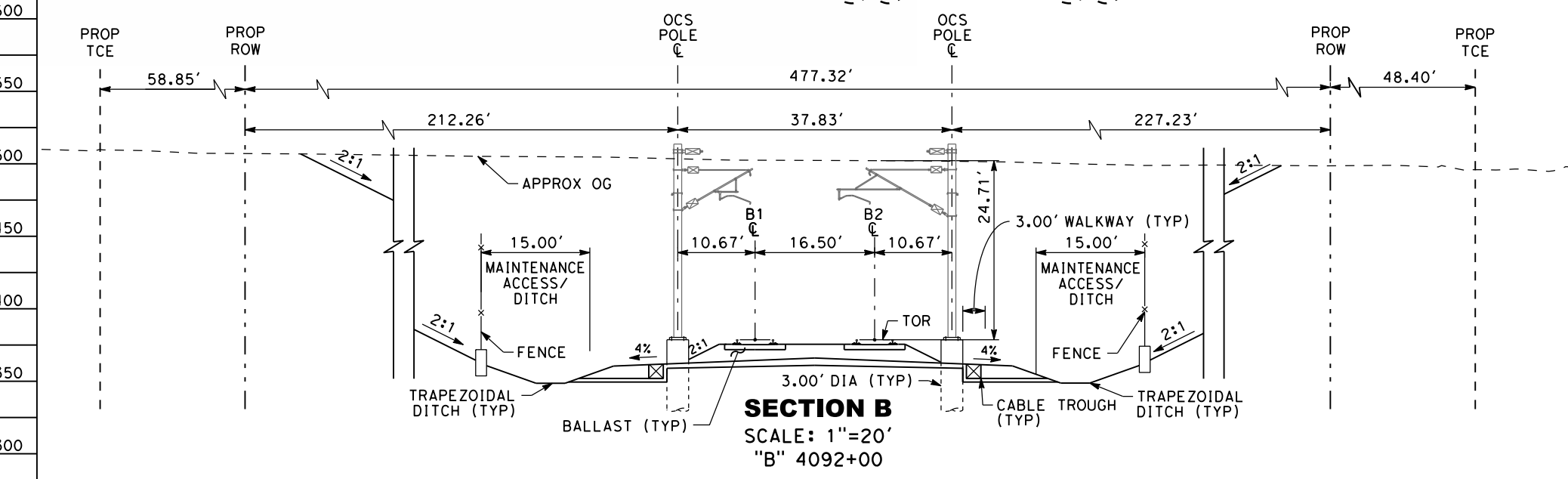
**PLAN**  
SCALE: 1"=200'



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT



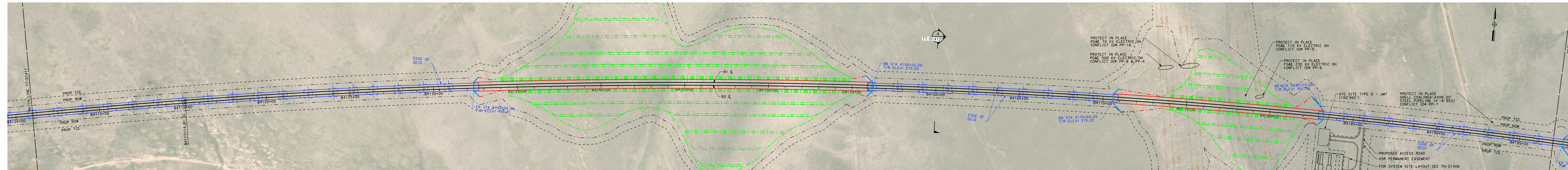
**SECTION A**  
SCALE: 1"=20'  
"B" 4050+00



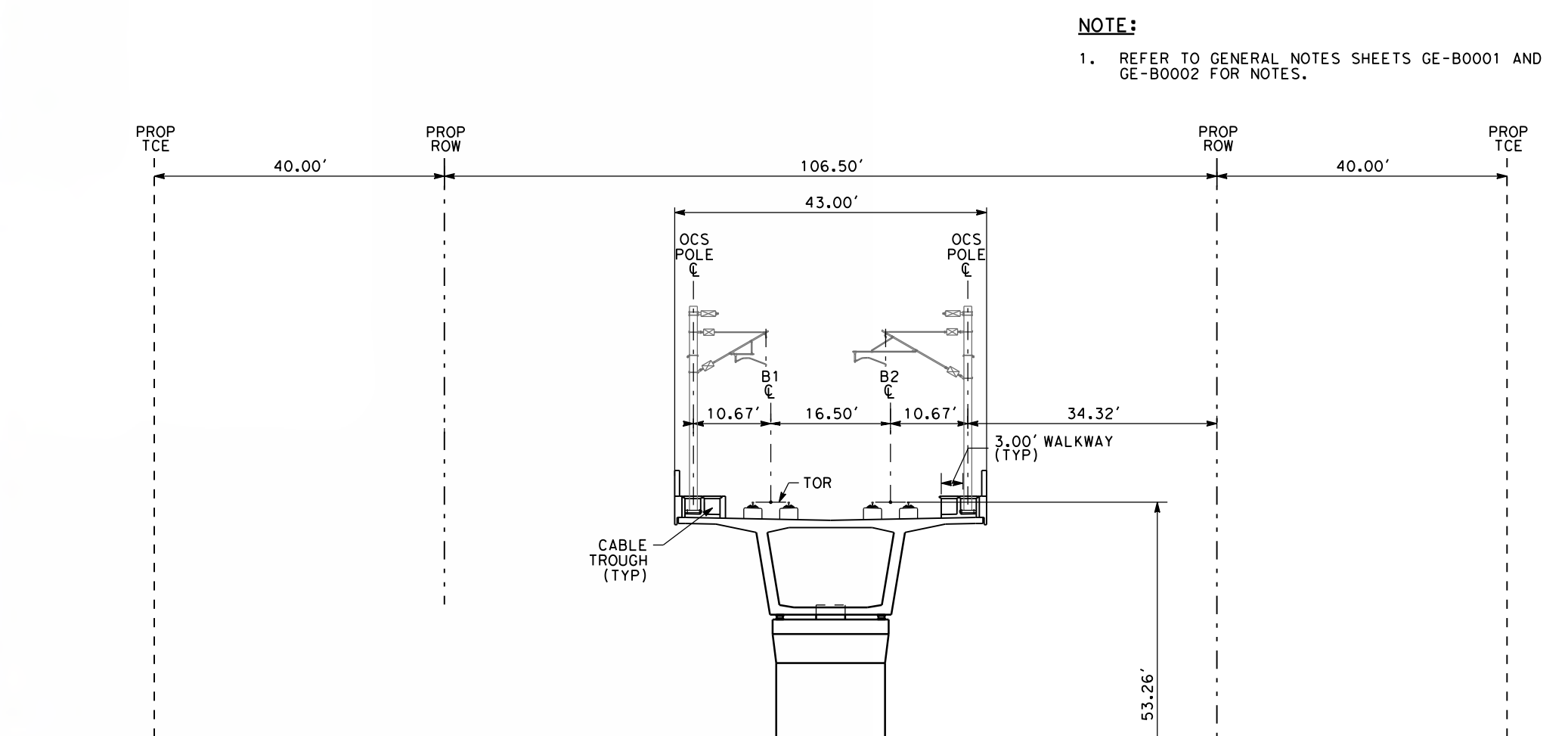
**SECTION B**  
SCALE: 1"=20'  
"B" 4092+00

<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> SAN JOSE TO MERCED PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4014+00 TO B4105+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1411 SCALE AS SHOWN SHEET NO.</p>
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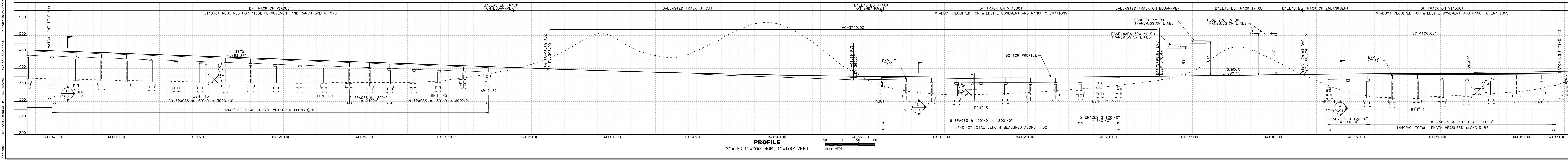


**PLAN**  
SCALE: 1"=200'  
1"=200' HOR



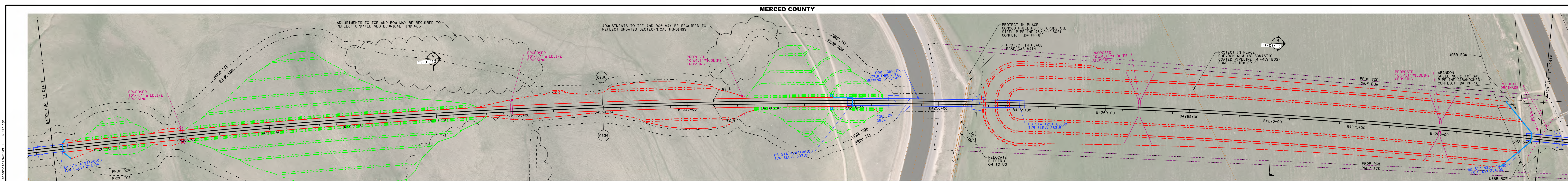
**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

**SECTION A**  
SCALE: 1"=20'  
"B" 4160+00  
**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 41 OF 216**

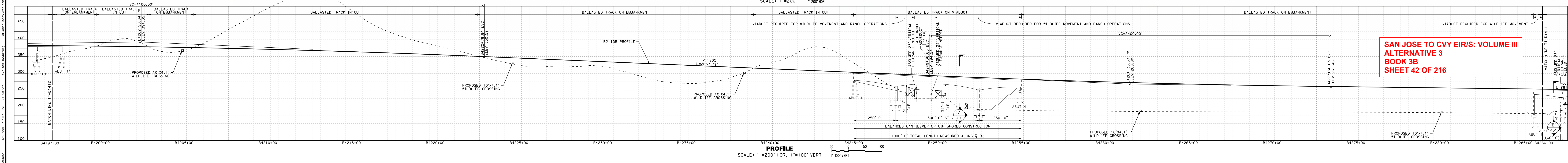


**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT

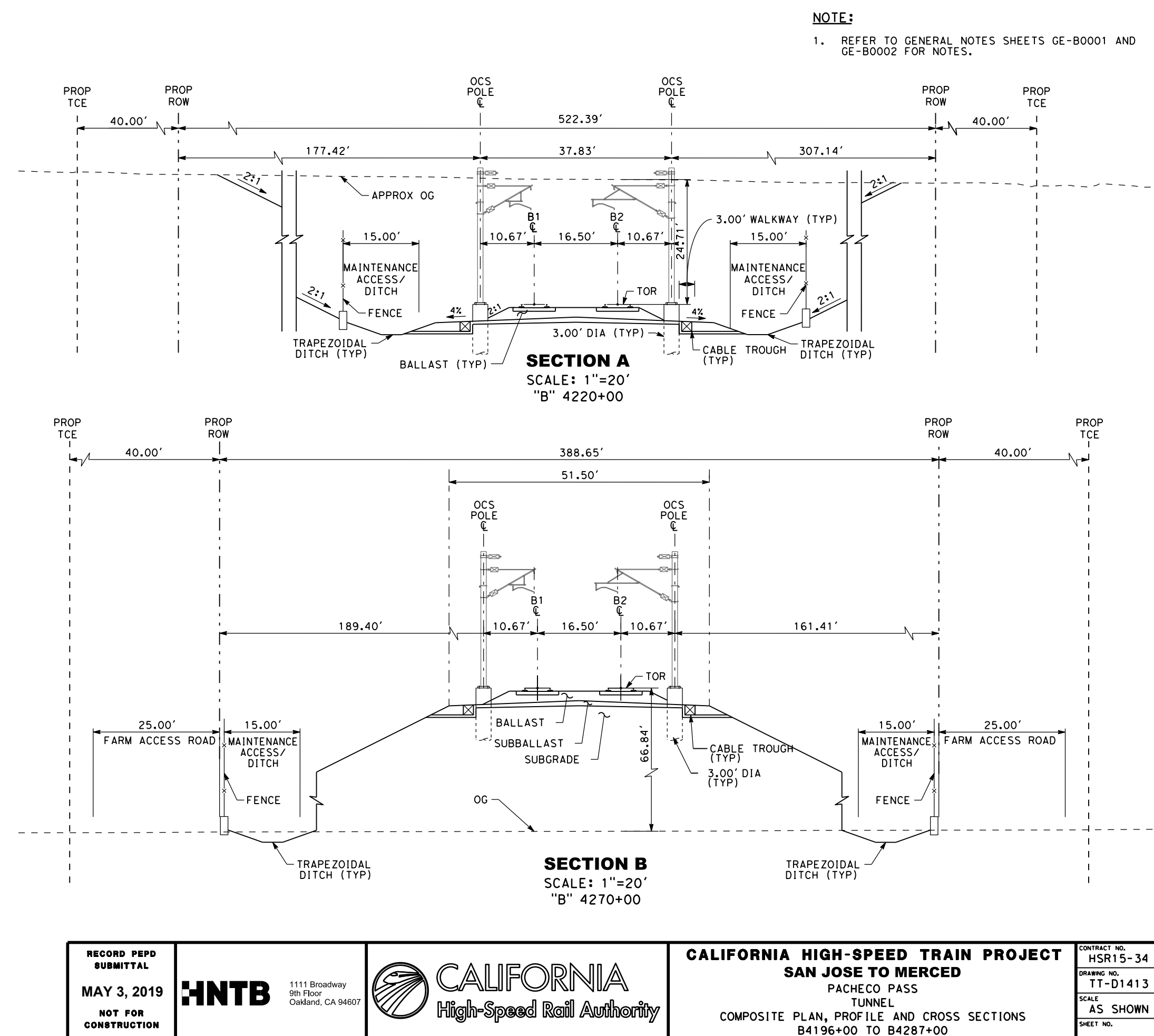
<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4105+00 TO B4196+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1412 SCALE: AS SHOWN SHEET NO.</p>
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**PLAN**  
SCALE: 1"=200'  
1"=200' HOR



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT



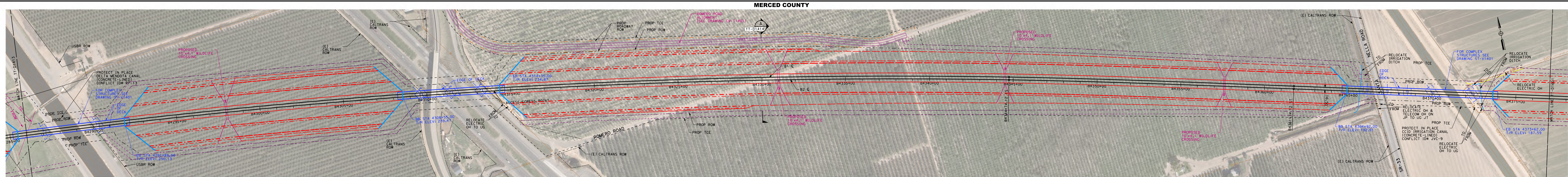
**SECTION A**  
SCALE: 1"=20'  
"B" 4220+00

**SECTION B**  
SCALE: 1"=20'  
"B" 4270+00

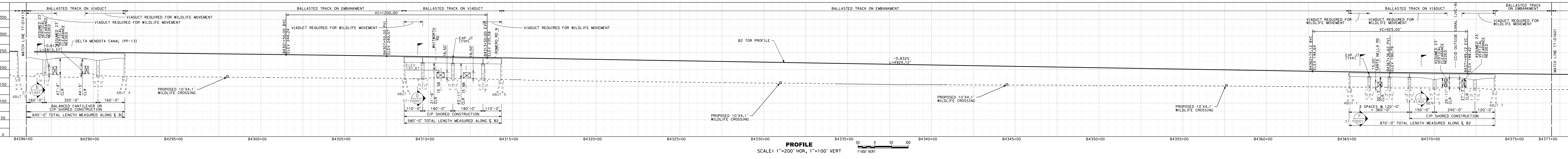
**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

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 2/26/2019 2:51:23 PM C:\p02\190319\190319.dwg C:\p02\190319\190319.dwg 11:20:13 AM  
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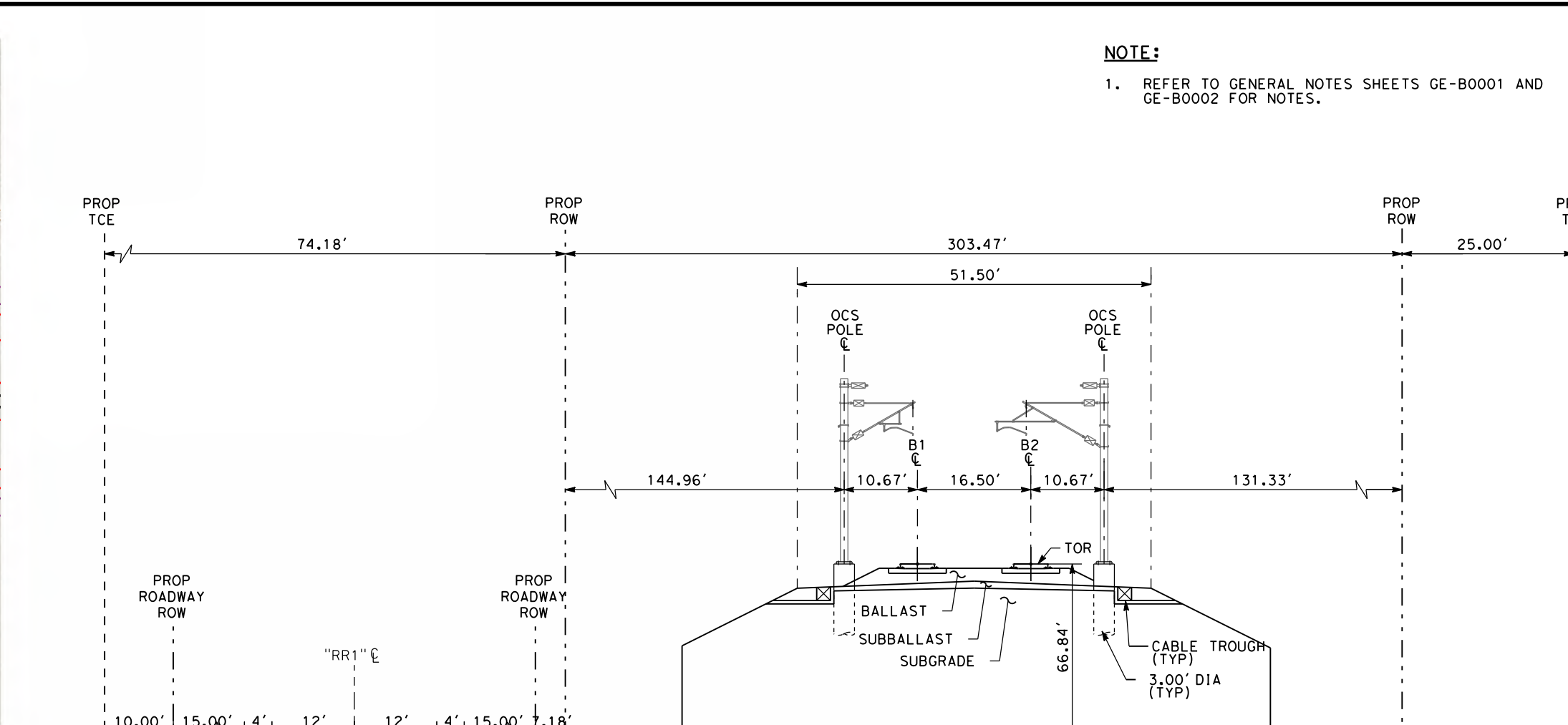
<b>RECORD PERM SUBMITTAL</b> MAY 3, 2019 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607		<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4196+00 TO B4287+00	CONTRACT NO. HSR15-34
				DRAWING NO. TT-D1413
			SCALE AS SHOWN	SHEET NO.



**PLAN**  
SCALE: 1"=200'



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT

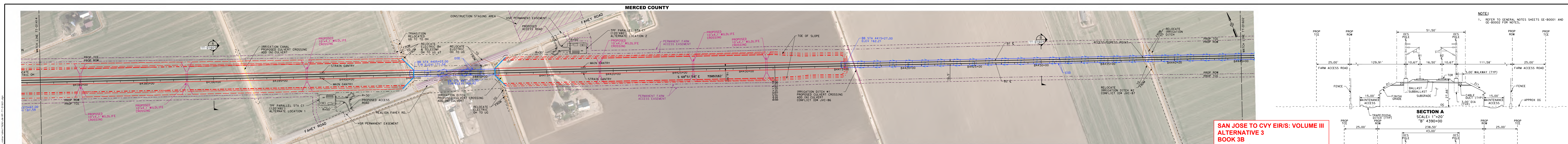


**SECTION A**  
SCALE: 1"=20'  
"B" 4330+00

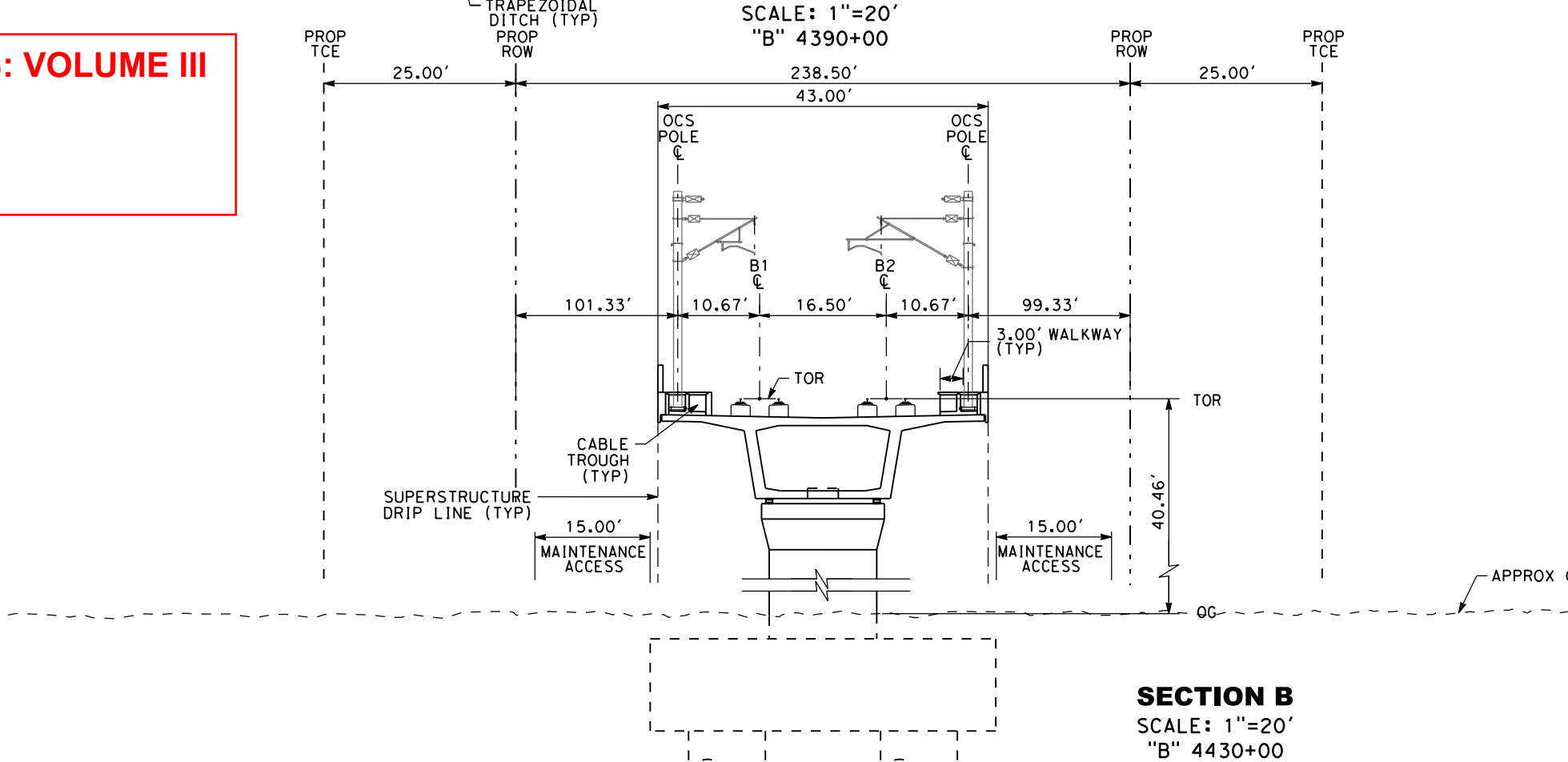
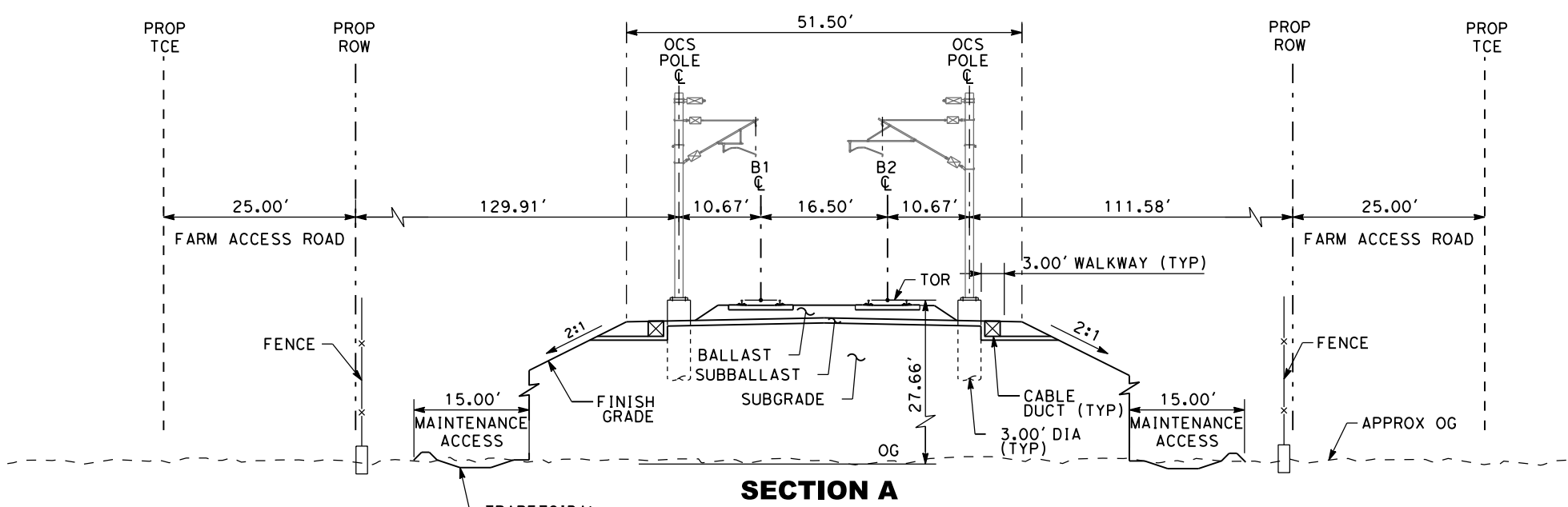
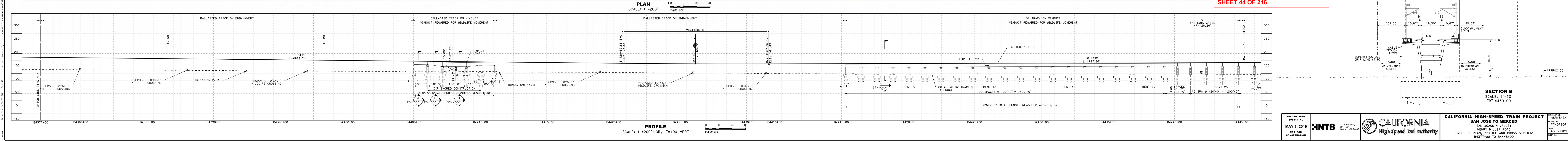
**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 43 OF 216**

<p>RECORD PERP SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> SAN JOSE TO MERCED PACHECO PASS TUNNEL COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4287+00 TO B4372+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1414 SCALE AS SHOWN SHEET NO.</p>
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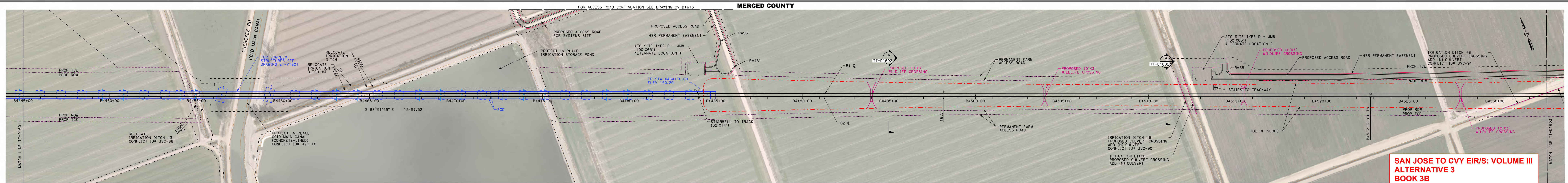


**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 44 OF 216**

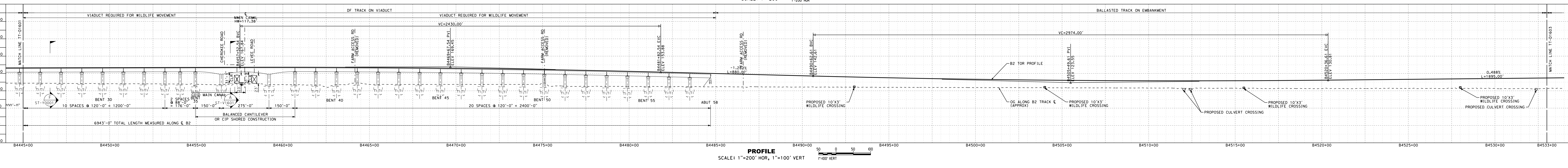


**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

<b>RECORD PERM SUBMITTAL</b> MAY 3, 2019 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4377+00 TO B4445+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1601 SCALE: AS SHOWN SHEET NO.
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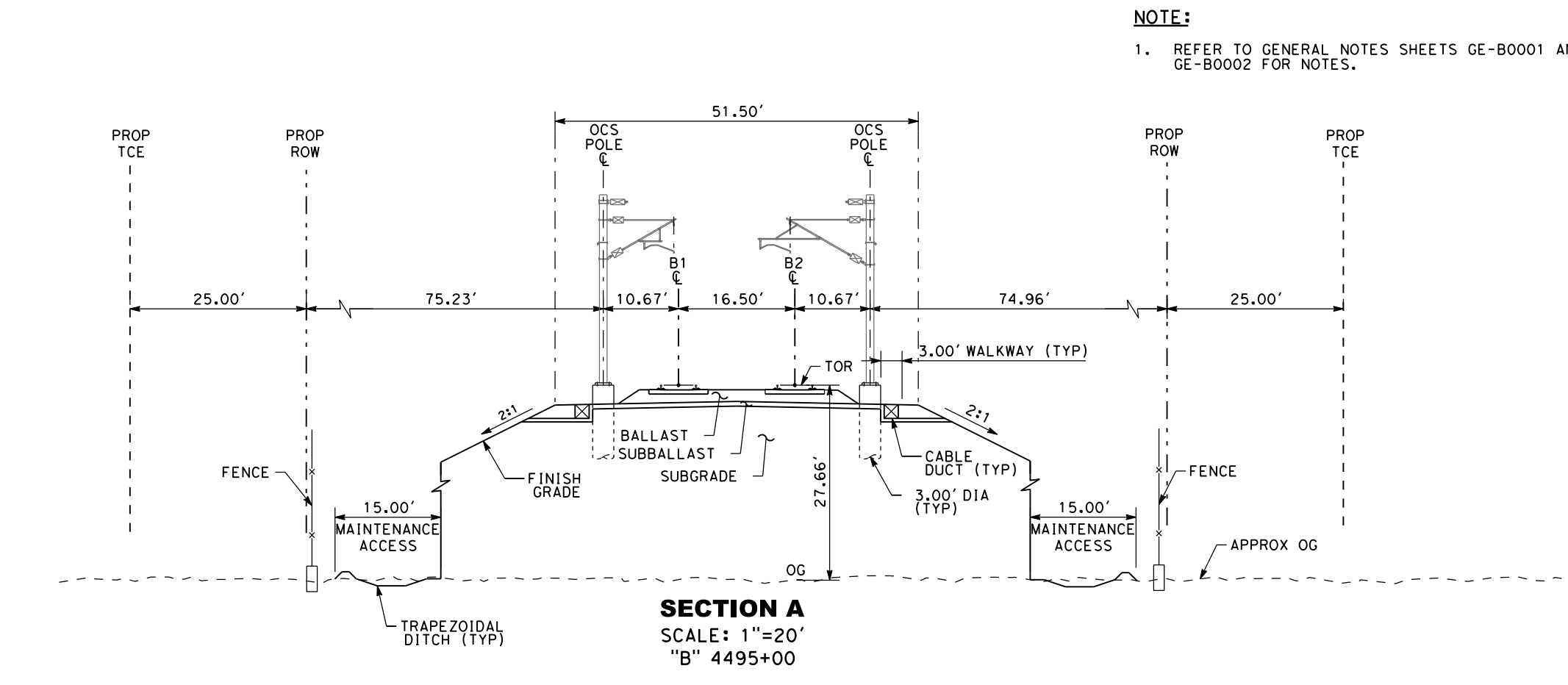


**PLAN**  
SCALE: 1"=200'  
1"=200' HOR

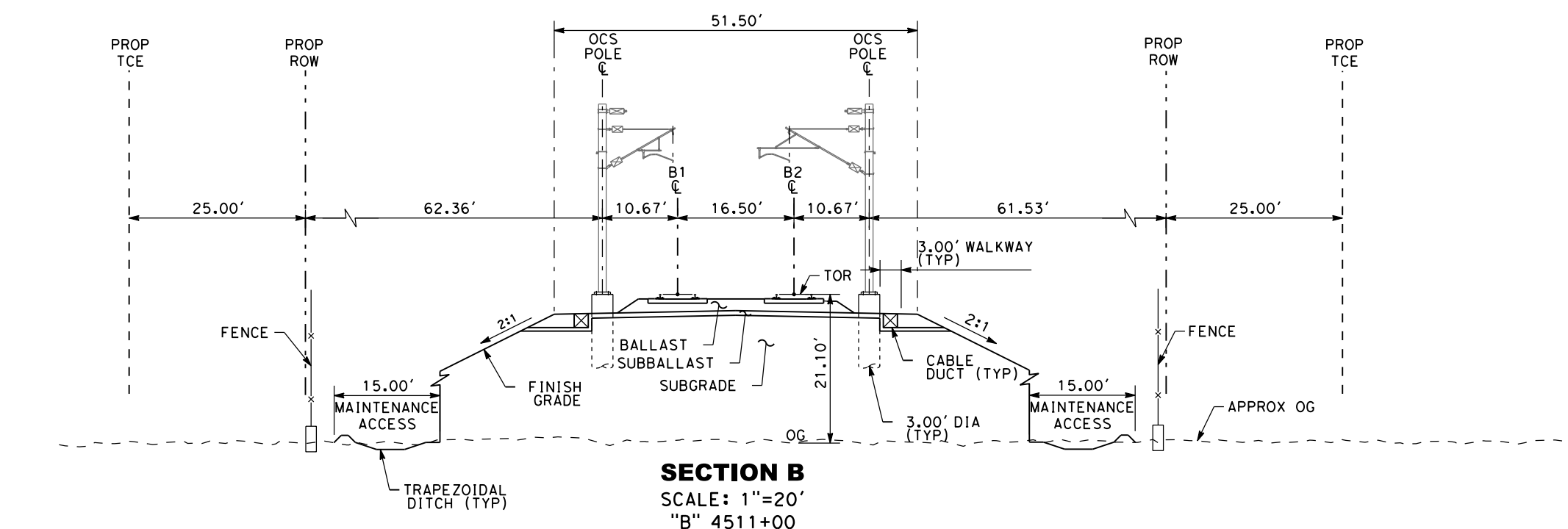


**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 45 OF 216**



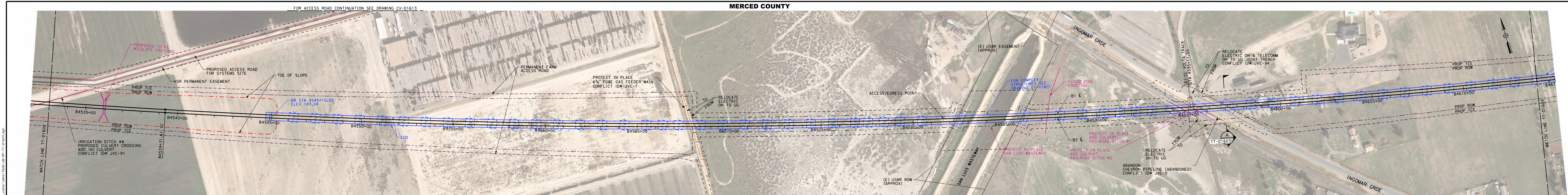
**SECTION A**  
SCALE: 1"=20'  
"B" 4495+00



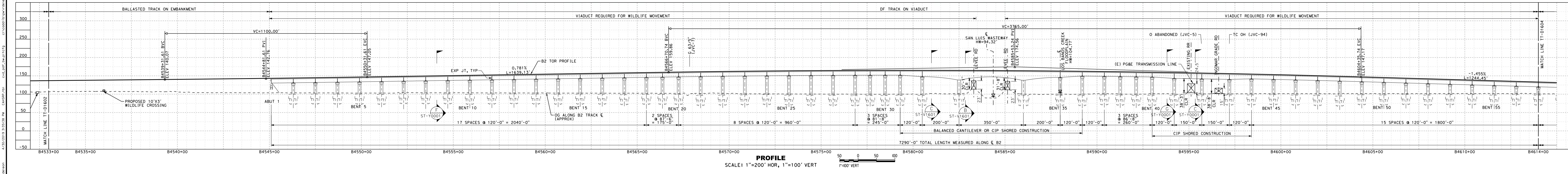
**SECTION B**  
SCALE: 1"=20'  
"B" 4511+00

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

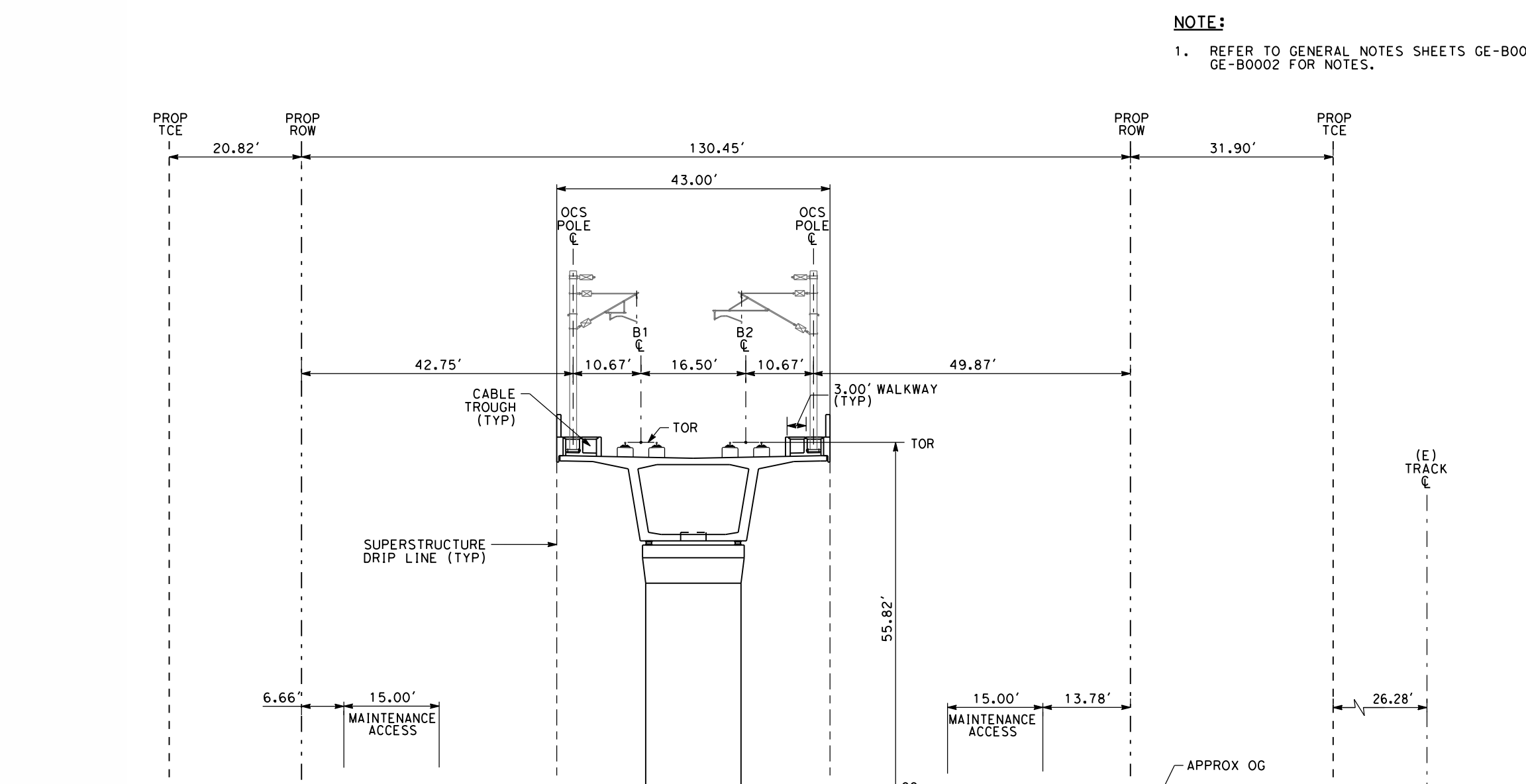
<b>RECORD PERM SUBMITTAL</b> MAY 3, 2019 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4445+00 TO B4533+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1602 SCALE AS SHOWN SHEET NO.
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**PLAN**  
SCALE: 1"=200'  
1"=200' HOR



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT



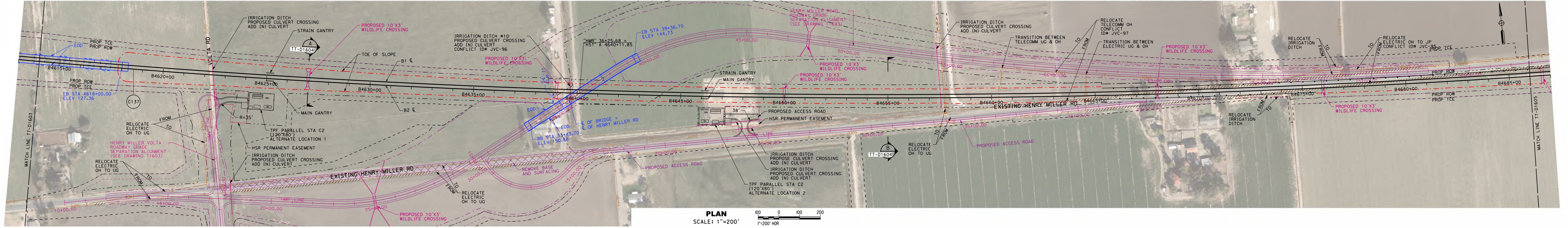
**SECTION A**  
SCALE: 1"=20'  
"B" 4597+00

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

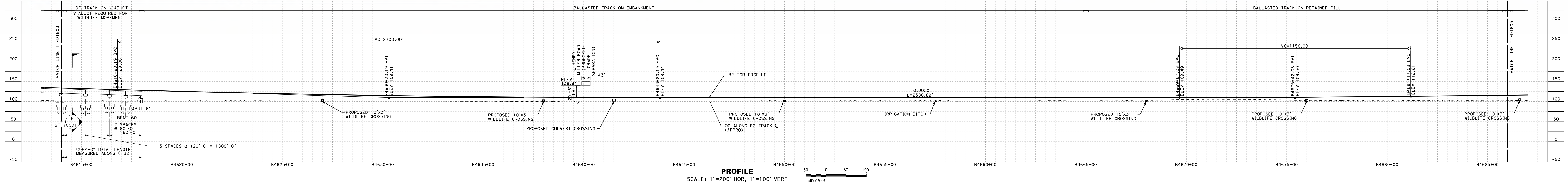
**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 46 OF 216**

RECORD PERM SUBMITTAL <b>MAY 3, 2019</b> NOT FOR CONSTRUCTION		1111 Broadway 9th Floor Oakland, CA 94607		<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4533+00 TO B4614+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1603 SCALE AS SHOWN SHEET NO.
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MERCED COUNTY

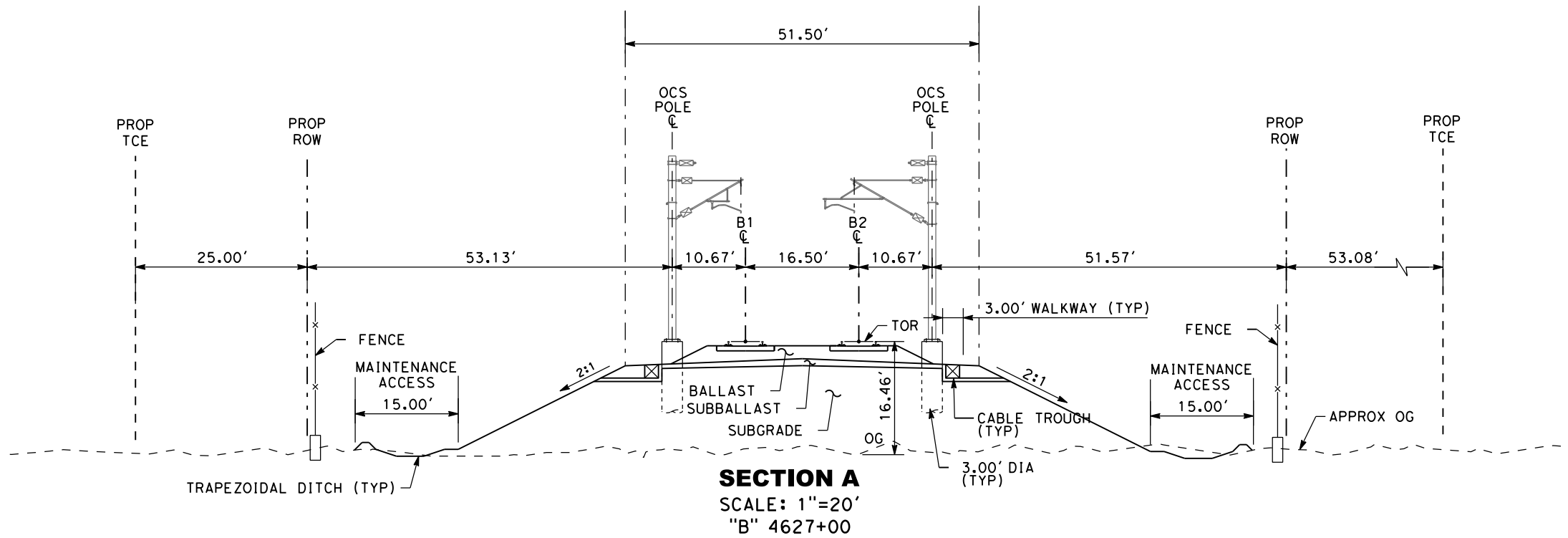


PLAN  
SCALE: 1"=200'

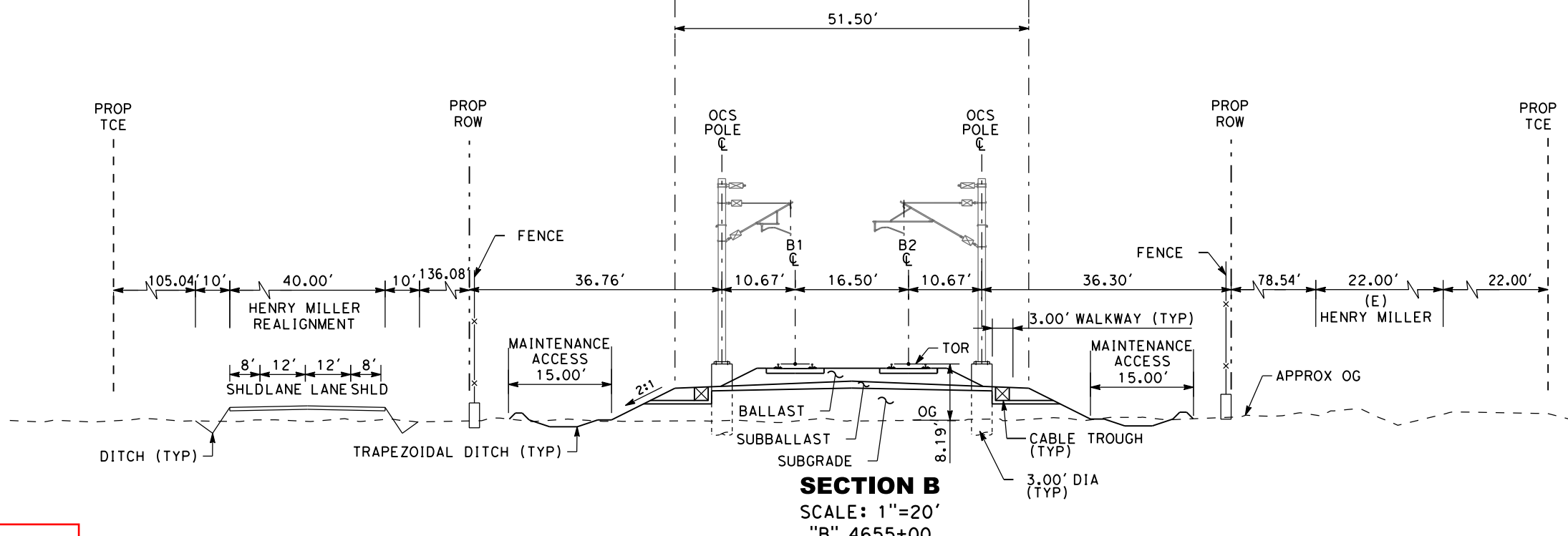


PROFILE  
SCALE: 1"=200' HOR, 1"=100' VERT

NOTE:  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.



SECTION A  
SCALE: 1"=20'  
"B" 4627+00



SECTION B  
SCALE: 1"=20'  
"B" 4655+00

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 47 OF 216**

RECORD PERM SUBMITTAL  
MAY 3, 2019  
NOT FOR CONSTRUCTION

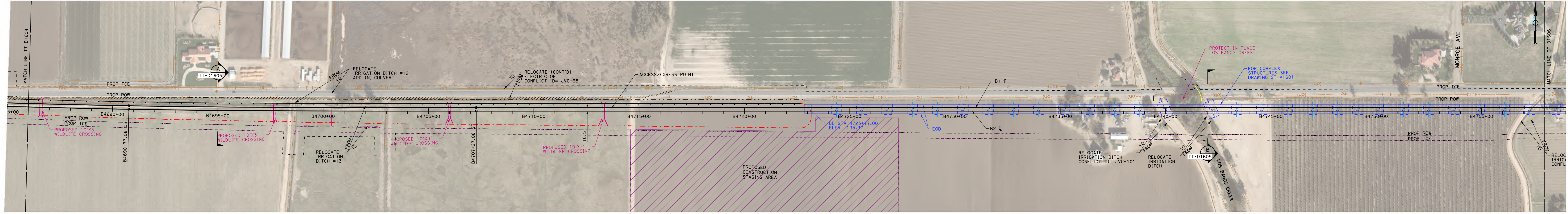
HNTB  
1111 Broadway  
9th Floor  
Oakland, CA 94607



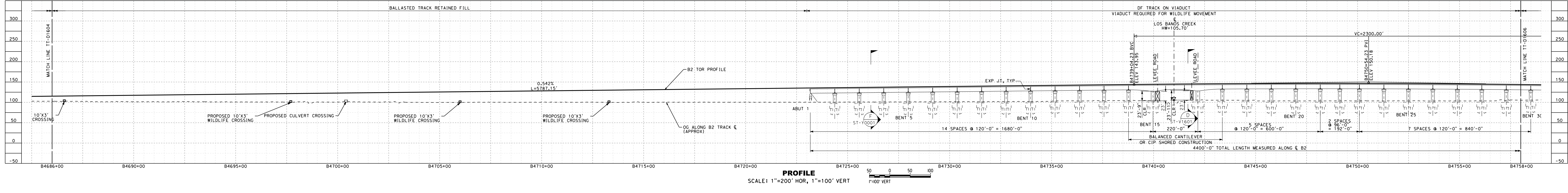
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN JOSE TO MERCED  
HENRY MILLER ROAD  
COMPOSITE PLAN, PROFILE AND CROSS SECTIONS  
B4614+00 TO B4686+00

CONTRACT NO. HSR15-34  
DRAWING NO. TT-D1604  
SCALE: AS SHOWN  
SHEET NO.

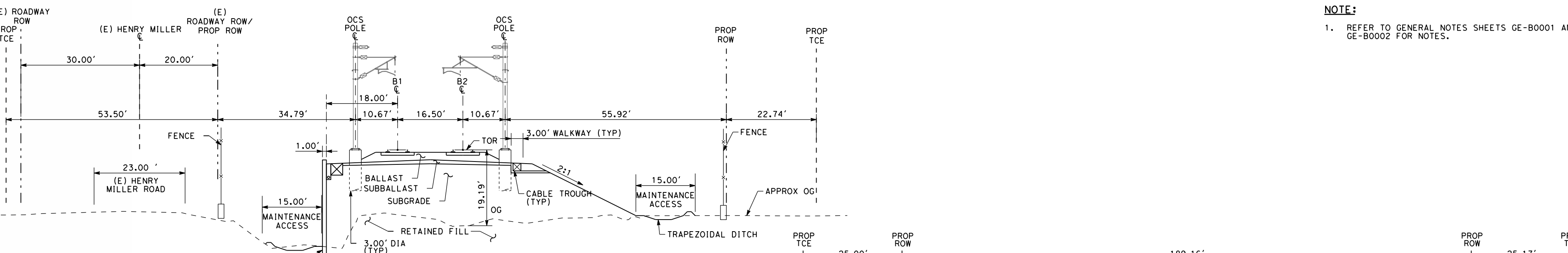
**MERCED COUNTY**



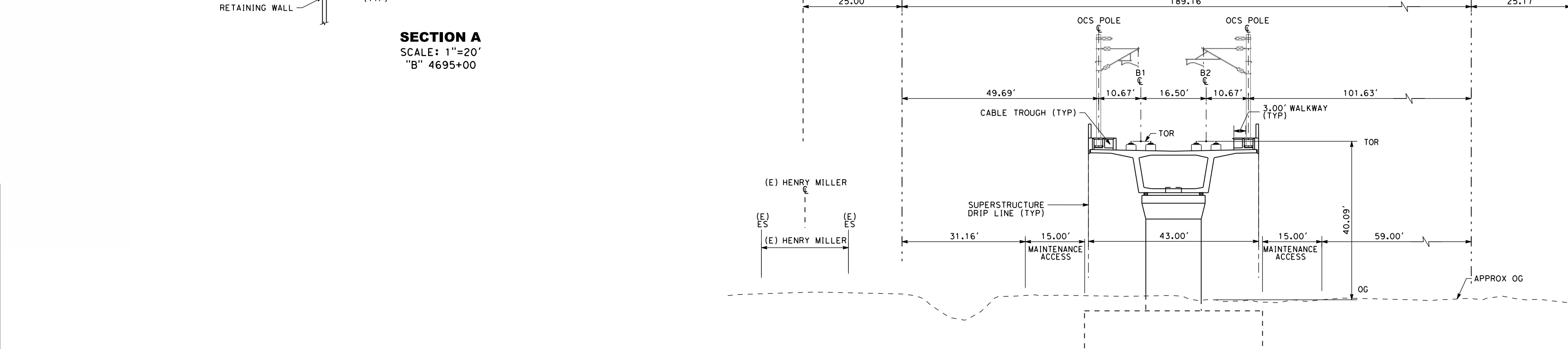
**PLAN**  
SCALE: 1"=200'



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT



**SECTION A**  
SCALE: 1"=20'  
"B" 4695+00



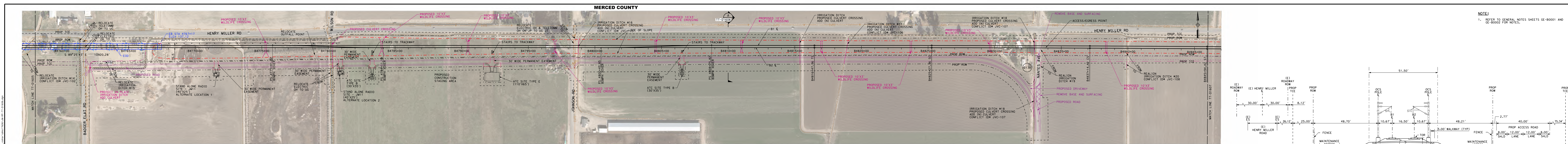
**SECTION B**  
SCALE: 1"=20'  
"B" 4742+00

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

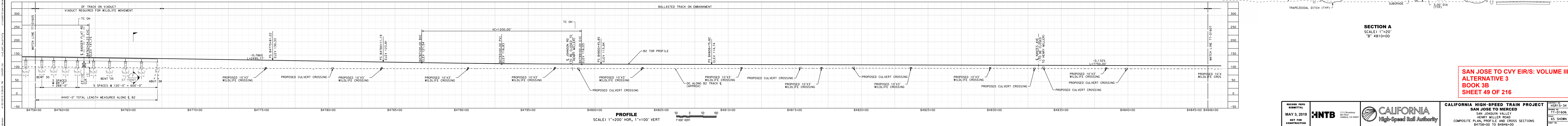
**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 48 OF 216**

RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4686+00 TO B4758+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1605 SCALE AS SHOWN SHEET NO.
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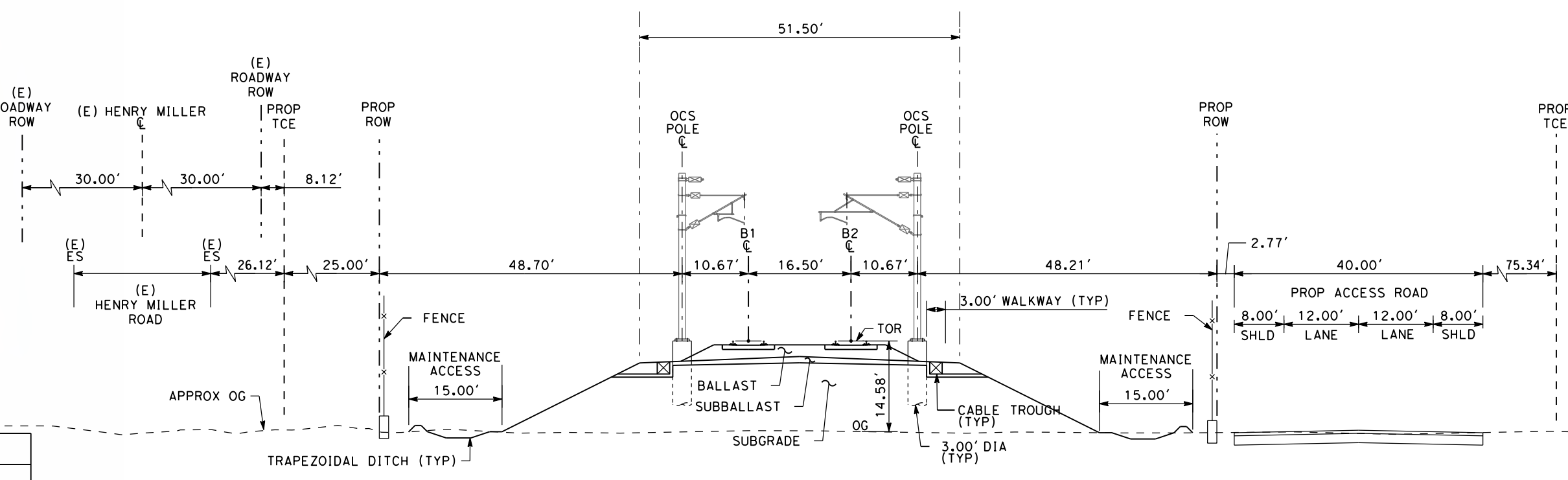




**PLAN**  
SCALE: 1"=200'



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT

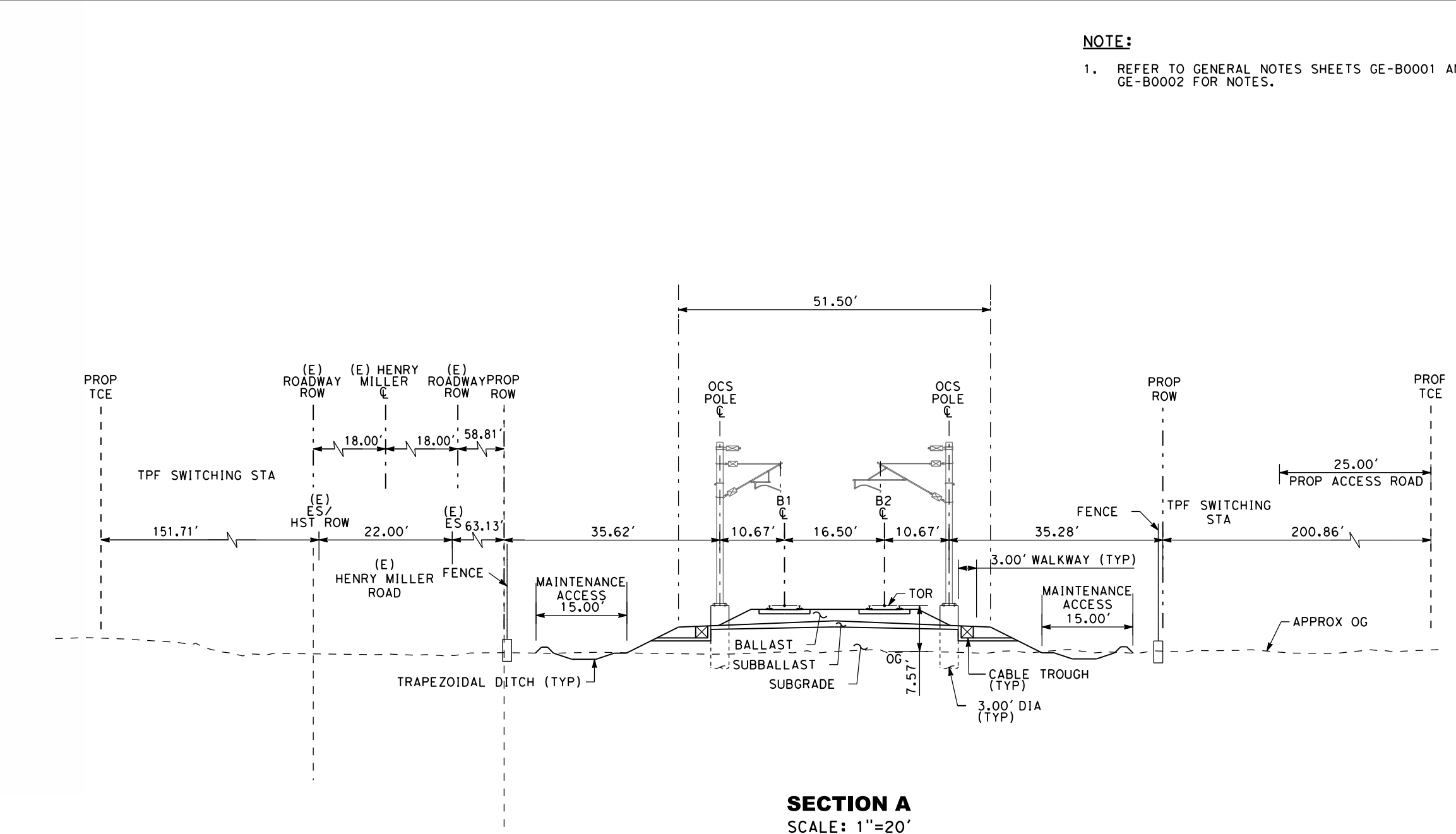
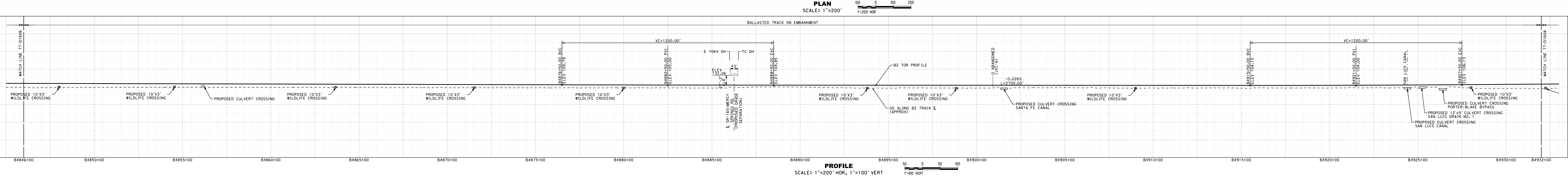
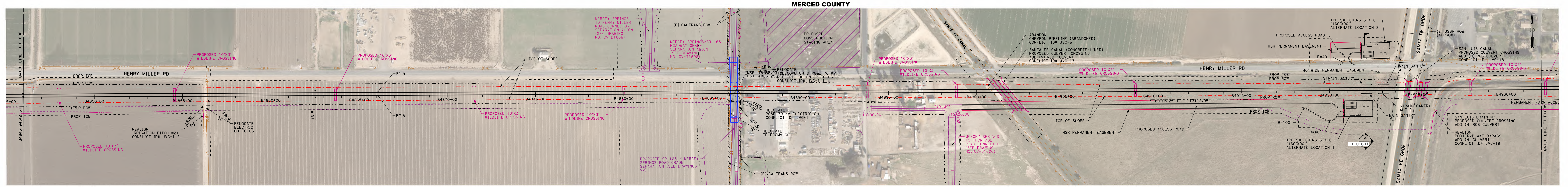


**SECTION A**  
SCALE: 1"=20'  
"B" 4810+00

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 49 OF 216**

<b>RECORD PERM SUBMITTAL</b> MAY 3, 2019 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4758+00 TO B4846+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1606 SCALE: AS SHOWN SHEET NO.
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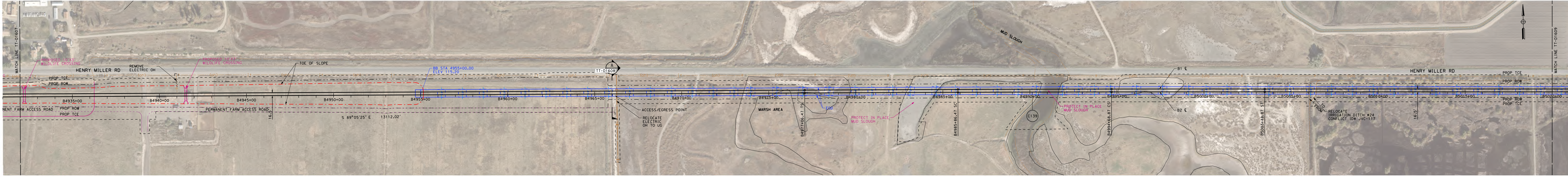


**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

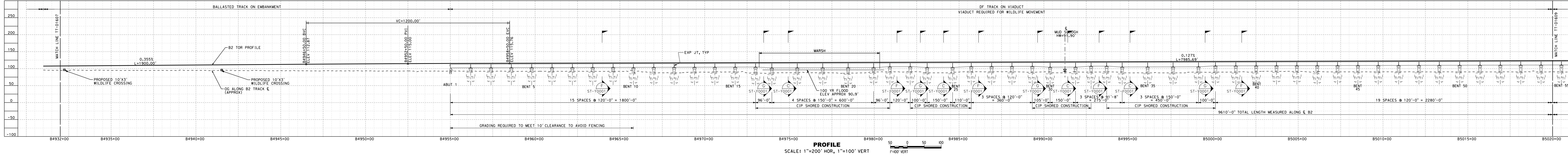
**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 50 OF 216**

RECORD PERM SUBMITTAL <b>MAY 3, 2019</b> NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4846+00 TO B4932+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1607 SCALE AS SHOWN SHEET NO.
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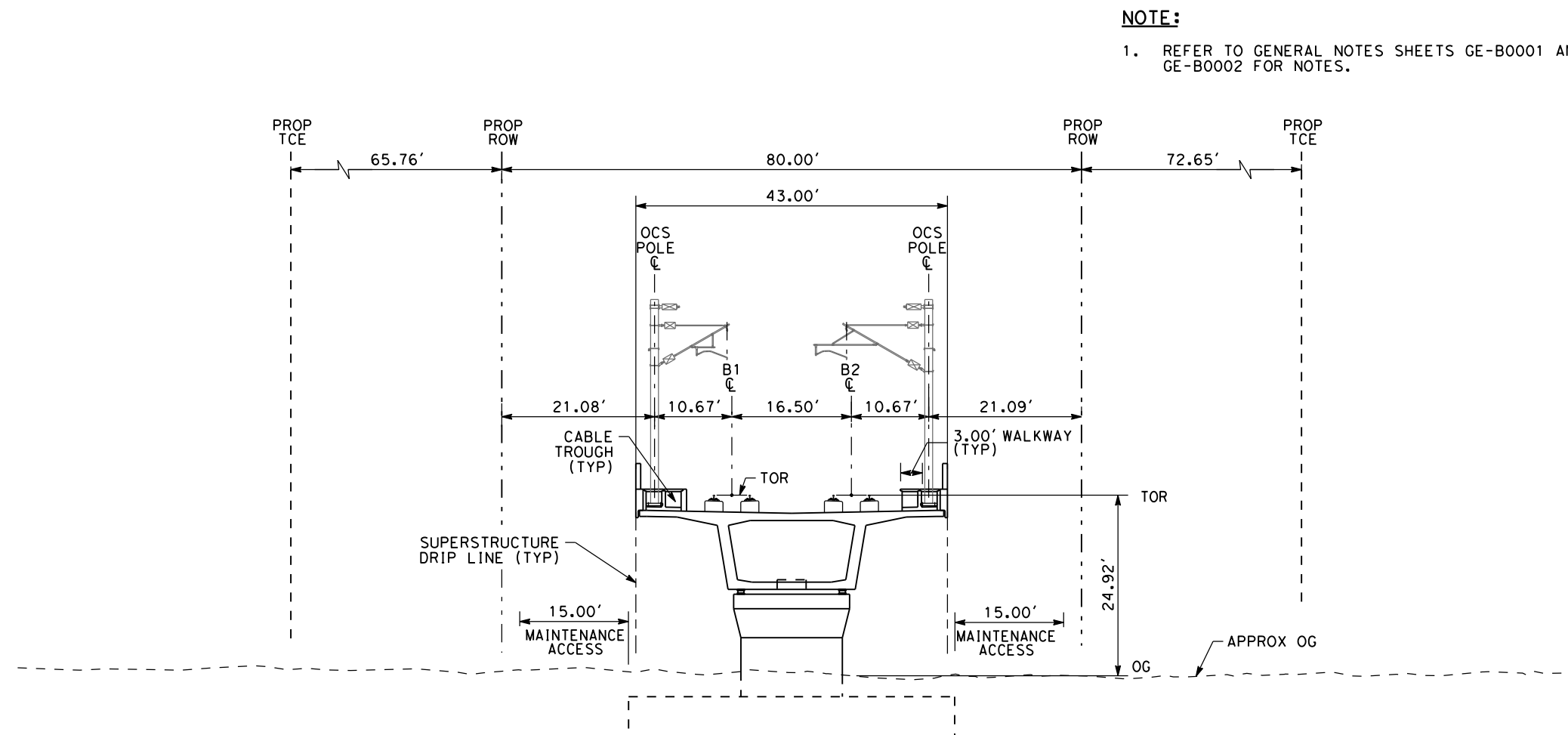
MERCED COUNTY



**PLAN**  
SCALE: 1"=200'  
1"=200' HOR



**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT



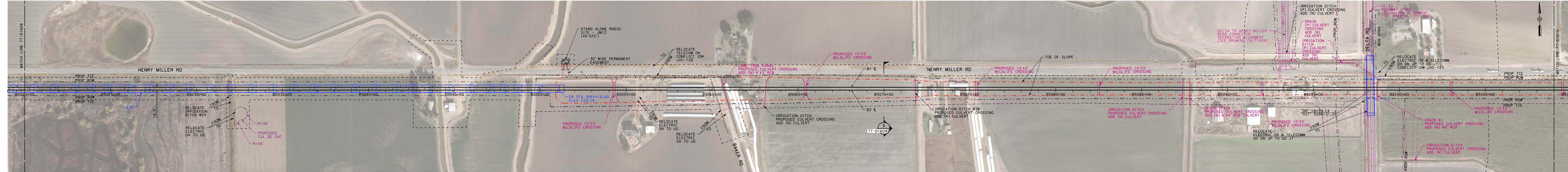
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SCALE: 1"=20'  
"B" 4966+00

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

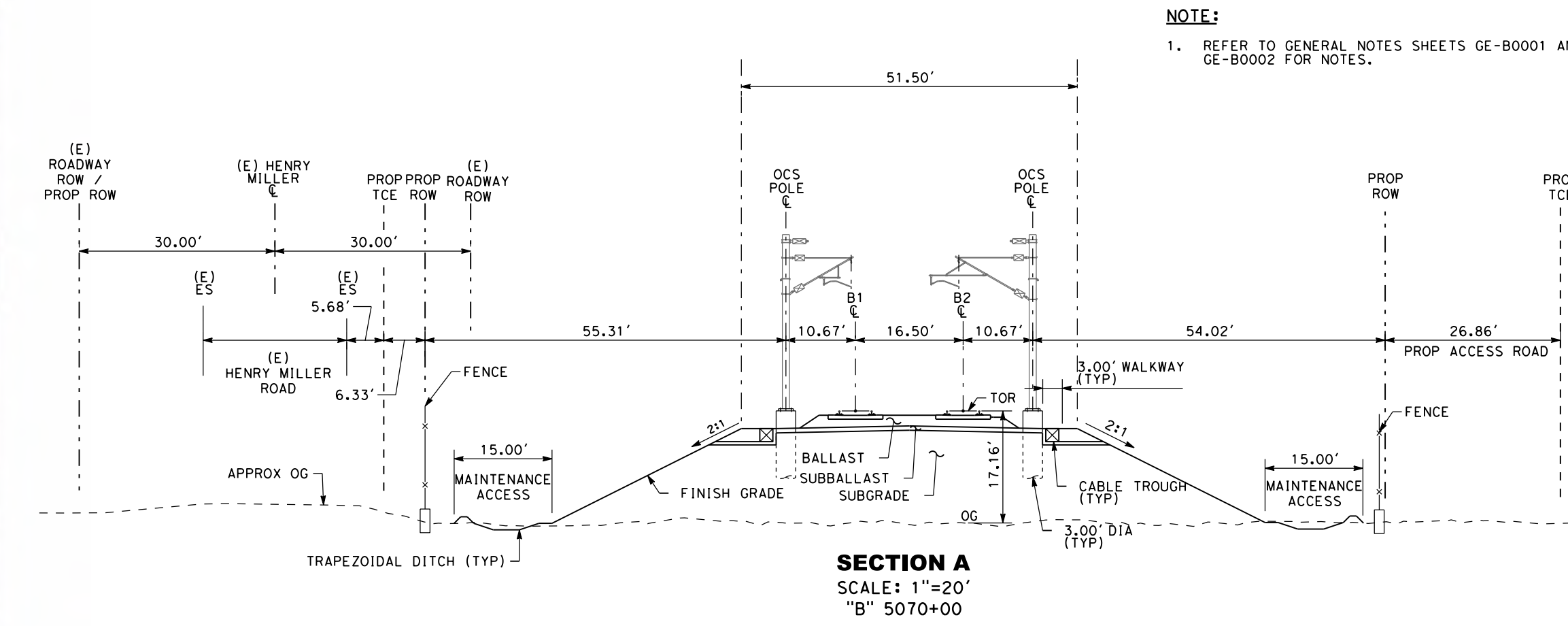
**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 51 OF 216**

<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> SAN JOSE TO MERCED SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B4932+00 TO B5020+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1608 SCALE AS SHOWN SHEET NO.</p>
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MERCED COUNTY

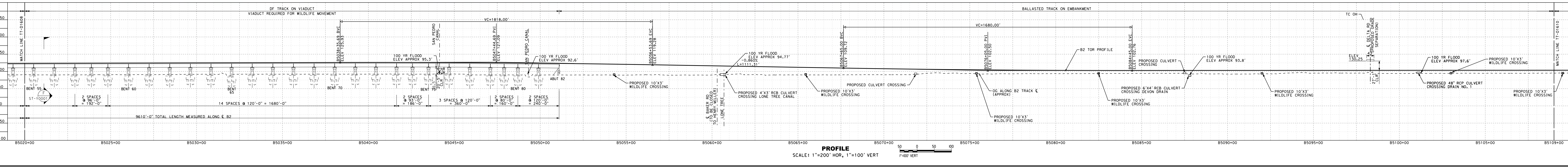


PLAN  
SCALE: 1"=200'  
1"=200' HOR



SECTION A  
SCALE: 1"=20'  
"B" 5070+00

NOTE:  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.



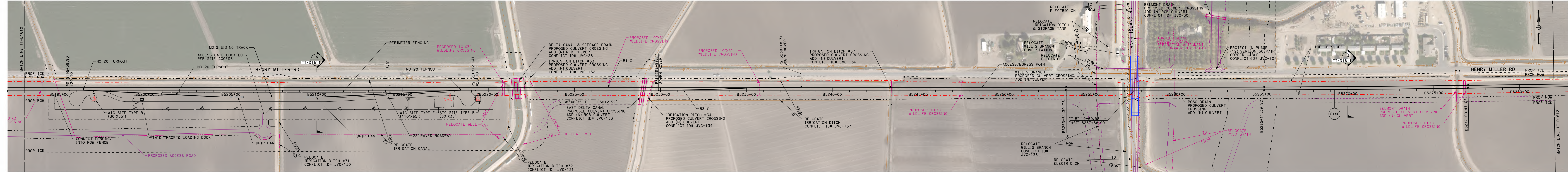
PROFILE  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT

**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 52 OF 216**

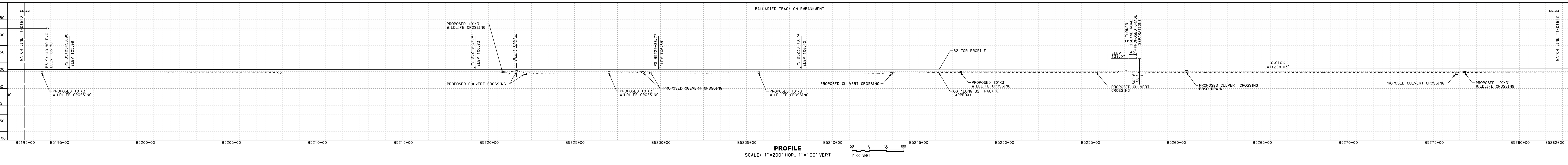
RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION	1111 Broadway 9th Floor Oakland, CA 94607	CALIFORNIA High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B5020+00 TO B5109+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1609 SCALE: AS SHOWN SHEET NO.
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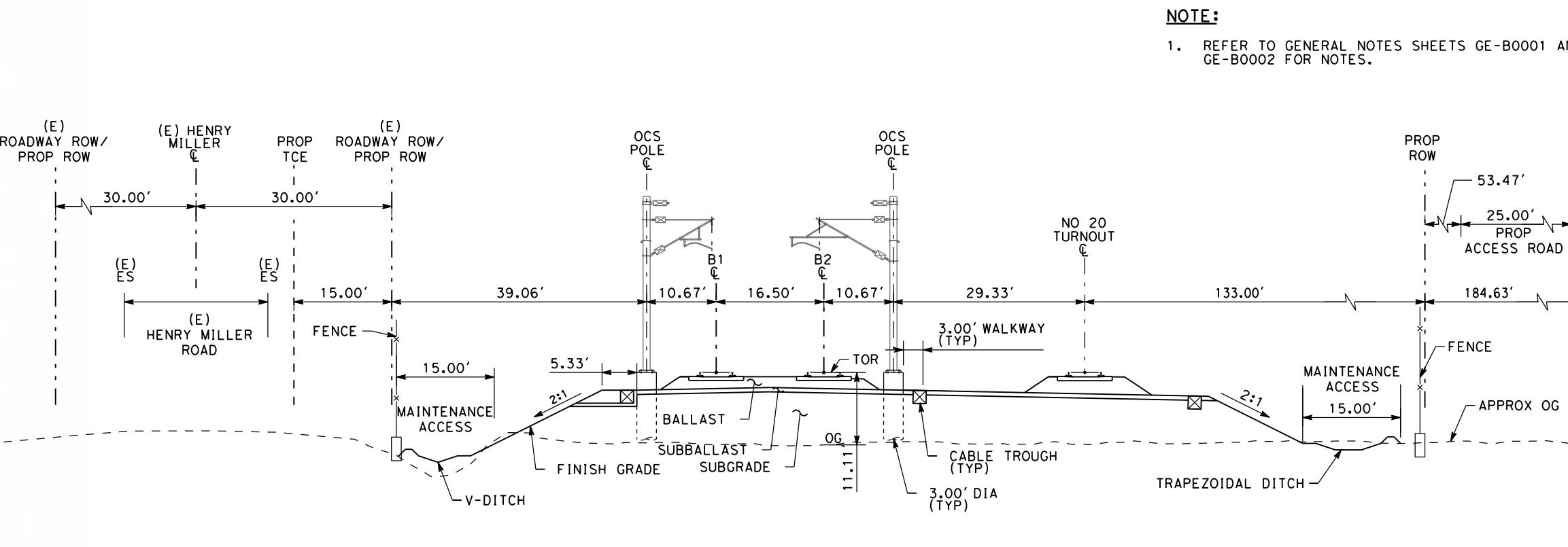
MERCED COUNTY



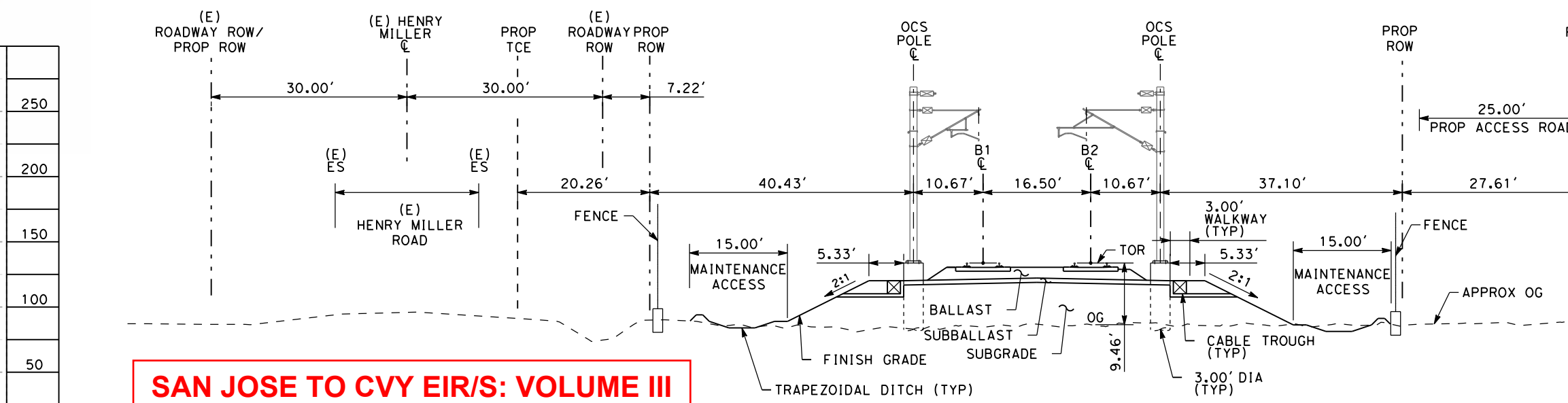
PLAN  
SCALE: 1"=200'



PROFILE  
SCALE: 1"=200' HOR, 1"=100' VERT



SECTION A  
SCALE: 1"=20'  
"B" 5210+00

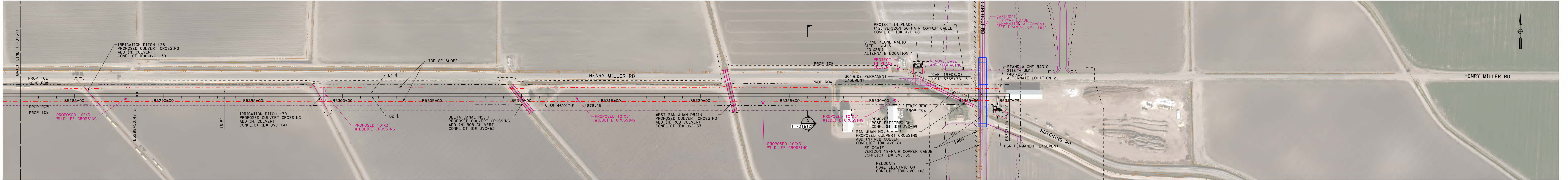


SECTION B  
SCALE: 1"=20'  
"B" 5270+00

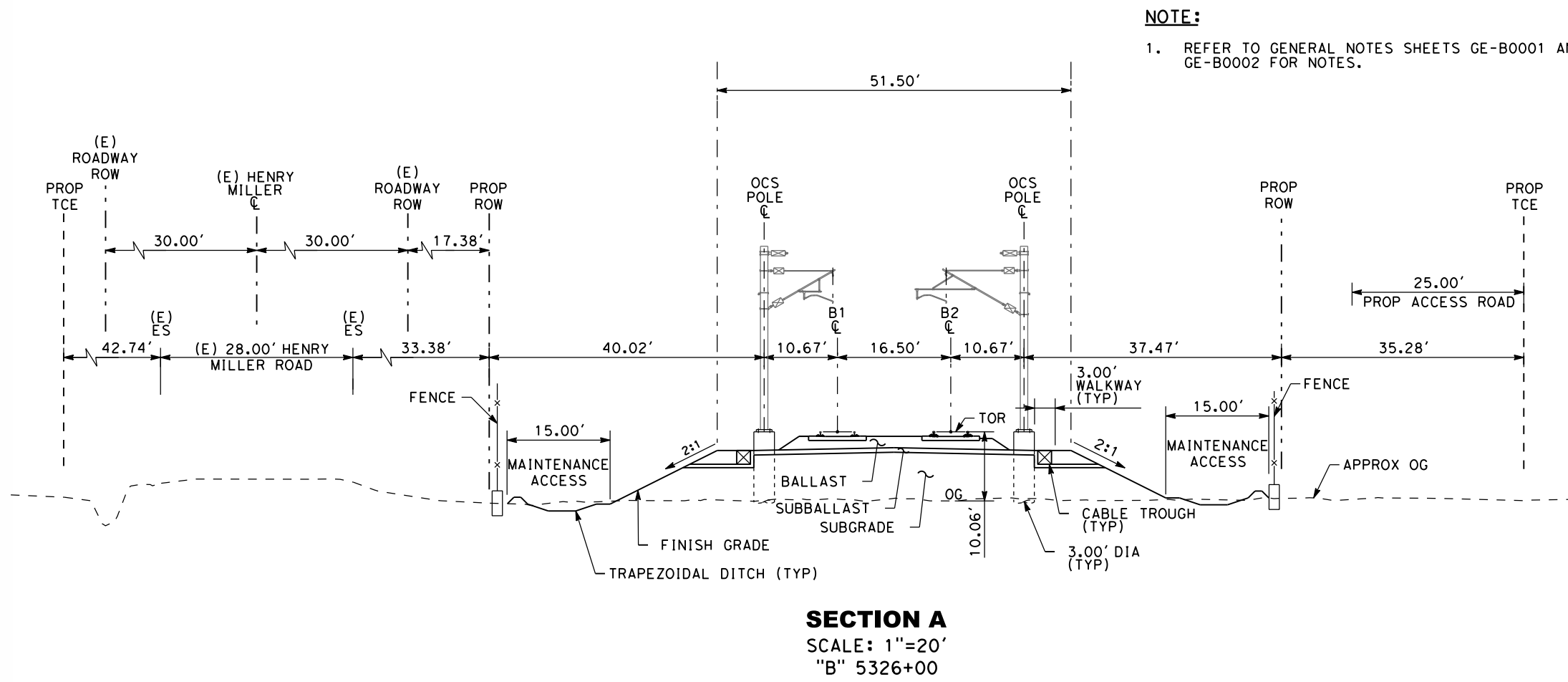
**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 54 OF 216**

<p>RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION</p>	<p><b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607</p>	<p><b>CALIFORNIA</b> High-Speed Rail Authority</p>	<p><b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> SAN JOSE TO MERCED SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B5193+00 TO B5282+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D1611 SCALE: AS SHOWN SHEET NO.</p>
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MERCED COUNTY

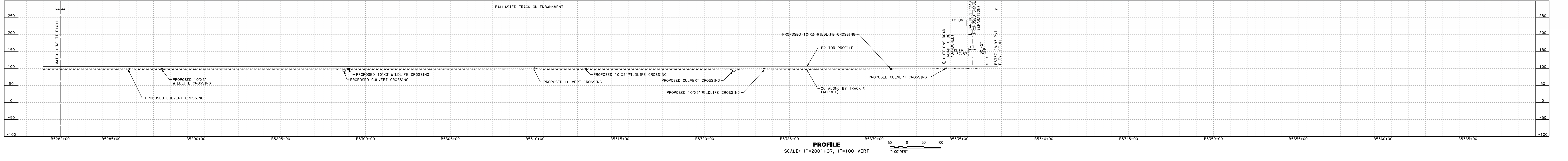


**PLAN**  
SCALE: 1"=200'  
1"=200' HOR



**SECTION A**  
SCALE: 1"=20'  
"B" 5326+00

**NOTE:**  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.



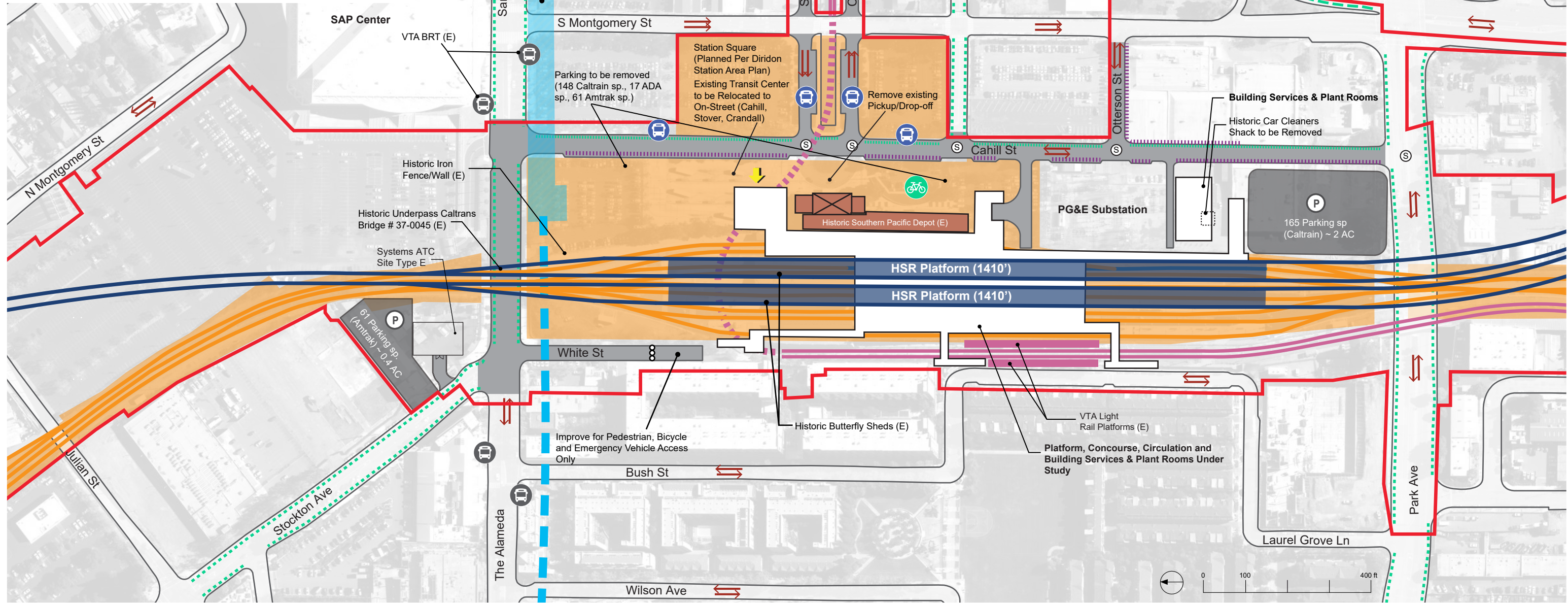
**PROFILE**  
SCALE: 1"=200' HOR, 1"=100' VERT  
1"=100' VERT

**SAN JOSE TO CVY EIR'S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 55 OF 216**

RECORD PERM SUBMITTAL MAY 3, 2019 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOAQUIN VALLEY HENRY MILLER ROAD COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B5282+00 TO B5337+28.93	CONTRACT NO. HSR15-34 DRAWING NO. TT-D1612 SCALE AS SHOWN SHEET NO.
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**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 56 OF 216**

- LEGEND**
- Environmental Footprint
  - New Station Facilities
  - HSR Tracks and Platform (Viaduct)
  - Caltrain/ACE/Amtrak Tracks & Platforms (At Grade)
  - JPB ROW
  - VTA Light Rail Tracks (At Grade)
  - VTA Light Rail Tracks (Below Grade)
  - BART (Planned)
  - Historic Station
  - Vehicular Road (Proposed)
  - P Proposed Surface Parking Facility, Total Parking Provided Includes Access Roads, Sidewalks, Landscaping = 226 spaces (~2 AC)  
Amtrak: 61 sp.\*\*  
Caltrain: 165 sp.\*\*  
\*\*Replacement Parking
  - ↔ Street Directional Arrows
  - ➔ Station Entrance
  - Pickup / Drop-off Area
  - Class I Bike Trail (Existing)
  - Class I Bike Trail (Proposed by Others)
  - Class I Bike Trail (Proposed by HSR)
  - Class II Bike Lane (Existing)
  - Class III Bike Route (Proposed by Others)
  - ⊙ Bike Parking (Proposed)
  - B Bus Stop (Existing)
  - B Bus Stop (12-15 Proposed)
  - S New Signalized Intersection
  - (E) Existing
  - (P) Proposed
  - O Bollards



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

**RECORD PEPP  
SUBMITTAL**

**MAY 3, 2019**

**NOT FOR  
CONSTRUCTION**

**HNTB**

1111 Broadway  
9th Floor  
Oakland, CA 94607

**CALIFORNIA**  
High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**SAN JOSE TO MERCED**

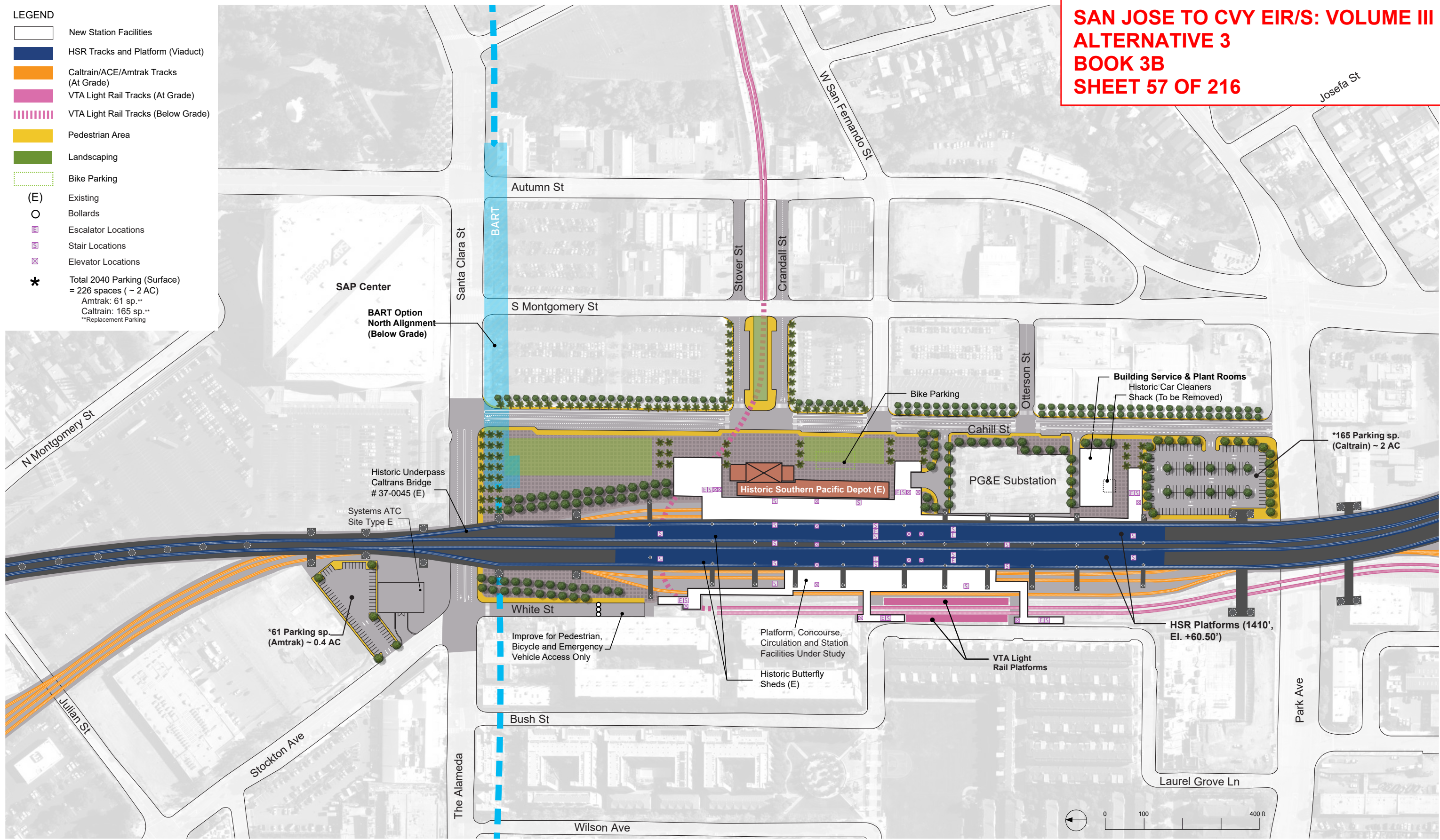
SAN JOSE DIRIDON STATION APPROACH  
VIADUCT TO I-880  
SAN JOSE DIRIDON STATION  
GENERAL SITE PLAN

CONTRACT NO.	HSR15-34
DRAWING NO.	AR-C0101
SCALE	AS SHOWN
SHEET NO.	



**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 57 OF 216**

- LEGEND**
- New Station Facilities
  - HSR Tracks and Platform (Viaduct)
  - Caltrain/ACE/Amtrak Tracks (At Grade)
  - VTA Light Rail Tracks (At Grade)
  - VTA Light Rail Tracks (Below Grade)
  - Pedestrian Area
  - Landscaping
  - Bike Parking
  - (E) Existing
  - Bollards
  - ⊞ Escalator Locations
  - ⊞ Stair Locations
  - ⊞ Elevator Locations
  - \* Total 2040 Parking (Surface)  
= 226 spaces (~ 2 AC)  
Amtrak: 61 sp.\*\*  
Caltrain: 165 sp.\*\*  
\*\*Replacement Parking



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

**RECORD PEPP SUBMITTAL**

**MAY 3, 2019**

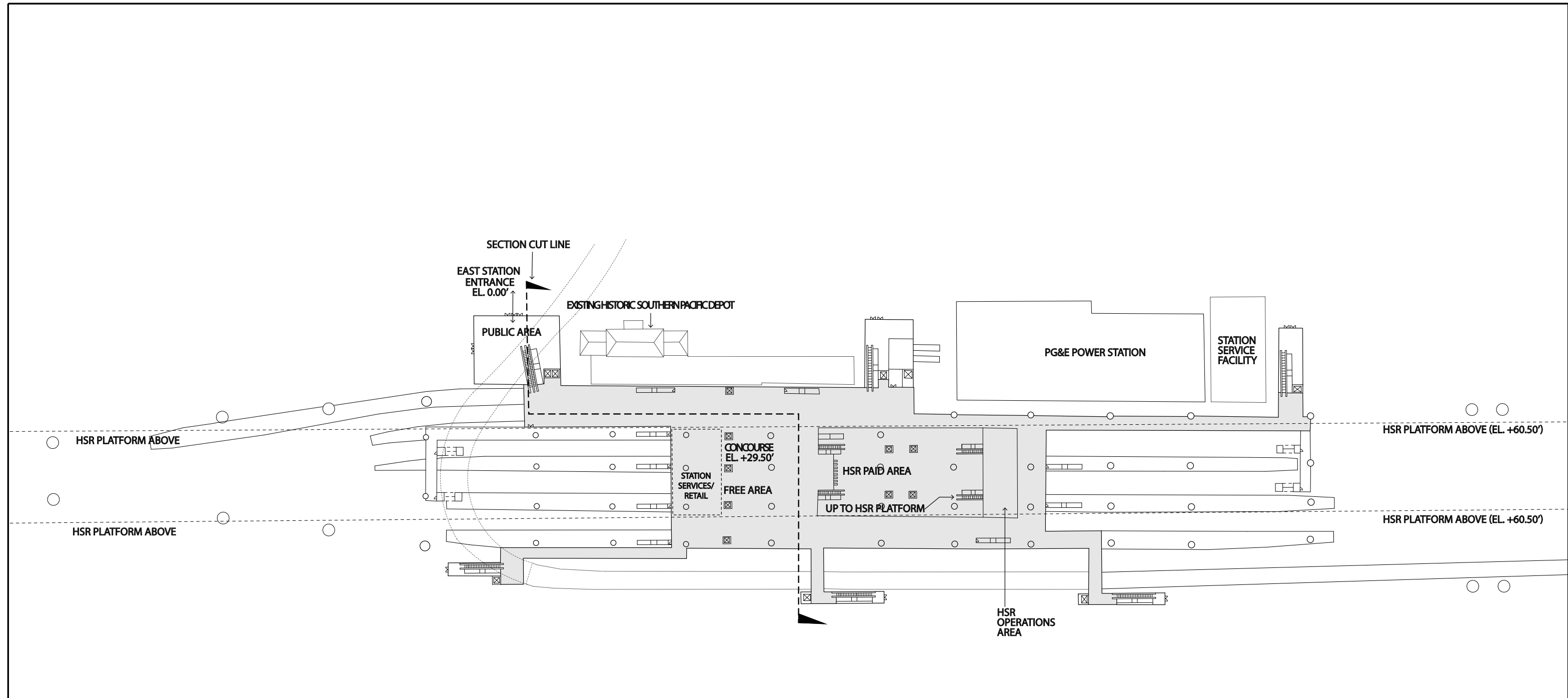
**NOT FOR CONSTRUCTION**

**HNTB** 1111 Broadway  
9th Floor  
Oakland, CA 94607

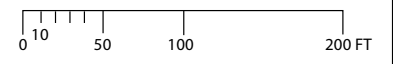


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
SAN JOSE DIRIDON STATION APPROACH  
VIADUCT TO I-880  
SAN JOSE DIRIDON STATION  
DETAILED SITE PLAN

CONTRACT NO.	HSR15-34
DRAWING NO.	AR-C0102
SCALE	AS SHOWN
SHEET NO.	



**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 58 OF 216**



REV	D-TE	BY	CHK	-PP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
D-TE	

**RECORD P&E D**  
**SUBMITTAL**  
  
**MAY 3, 2019**  
  
**NOT FOR**  
**CONSTRUCTION**

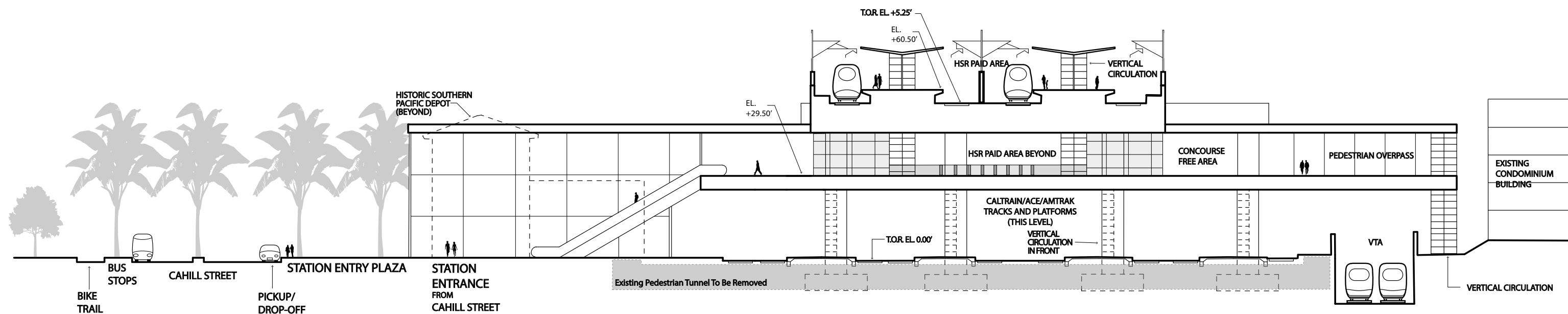
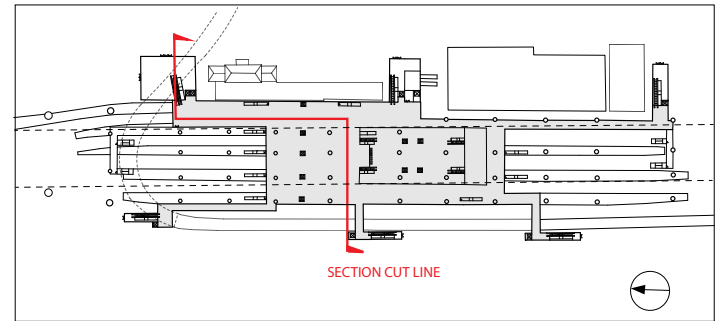
HNTB

1111 Broadway  
9th Floor  
Oakland, CA 94607

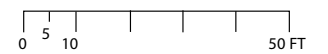


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 SAN JOSE DIRIDON STATION APPROACH  
 VIADUCT TO I-880  
 SAN JOSE DIRIDON STATION  
 CONCOURSE PLAN

CONTRACT NO.	HSR15-34
DRAWING NO.	AR-F0101
SCALE	AS SHOWN
SHEET NO.	



**SAN JOSE TO CVY EIR/S: VOLUME III  
 ALTERNATIVE 3  
 BOOK 3B  
 SHEET 59 OF 216**



REV	D-TE	BY	CHK	-PP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CH-RGE
D-TE

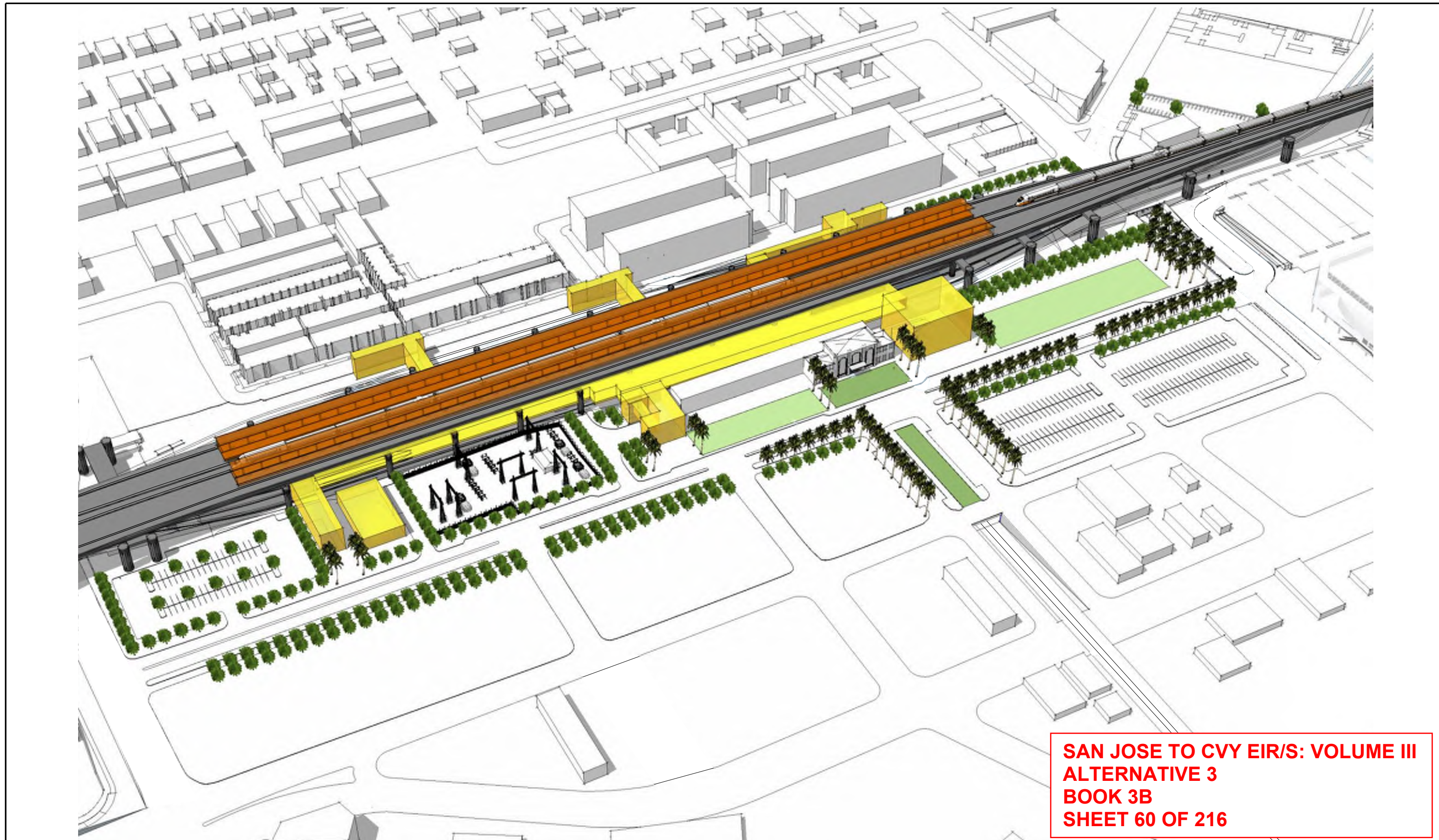
**RECORD P&E-D  
 SUBMITTAL**  
  
**MAY 3, 2019**  
  
**NOT FOR  
 CONSTRUCTION**

**HNTB** 1111 Broadway  
 9th Floor  
 Oakland, CA 94607



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 SAN JOSE DIRIDON STATION APPROACH  
 VIADUCT TO I-880  
 SAN JOSE DIRIDON STATION  
 SECTION

CONTRACT NO. HSR15-34
DRAWING NO. AR-Y0101
SCALE AS SHOWN
SHEET NO.



**SAN JOSE TO CVY EIR/S: VOLUME III  
 ALTERNATIVE 3  
 BOOK 3B  
 SHEET 60 OF 216**

REV	D-TE	BY	CHK	-PP	DESCRIPTION

DESIGNED BY  
 DRAWN BY  
 CHECKED BY  
 IN CH-RGE  
 D-TE

**RECORD P&D  
 SUBMITTAL**  
**MAY 3, 2019**  
**NOT FOR  
 CONSTRUCTION**



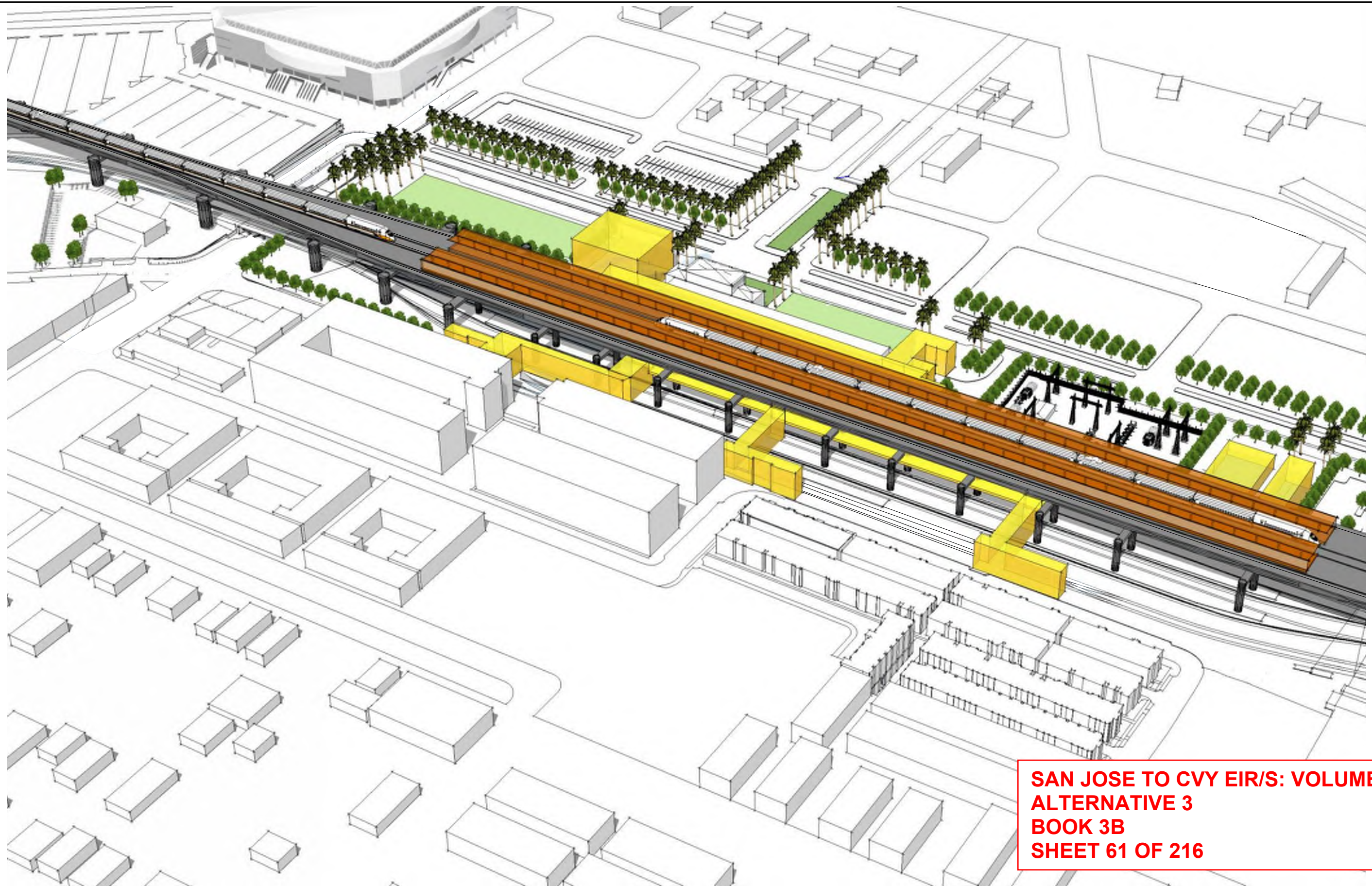
1111 Broadway  
 9th Floor  
 Oakland, CA 94607



**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 SAN JOSE DIRIDON STATION APPROACH  
 VIADUCT TO I-880  
 SAN JOSE DIRIDON STATION  
 MASSING DIAGRAM 1

CONTRACT NO.  
 HSR15-34  
 DRAWING NO.  
 AR-Y0102  
 SCALE  
 AS SHOWN  
 SHEET NO.



**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 61 OF 216**

REV	D-TE	BY	CHK	-PP	DESCRIPTION

DESIGNED BY  
DRAWN BY  
CHECKED BY  
IN CH-RGE  
D-TE

**RECORD P&ID  
SUBMITTAL  
MAY 3, 2019  
NOT FOR  
CONSTRUCTION**



1111 Broadway  
9th Floor  
Oakland, CA 94607




**CALIFORNIA**  
High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN JOSE TO MERCED**  
SAN JOSE DIRIDON STATION APPROACH  
VIADUCT TO I-880  
SAN JOSE DIRIDON STATION  
MASSING DIAGRAM 2

CONTRACT NO.  
HSR15-34  
DRAWING NO.  
AR-Y0103  
SCALE  
AS SHOWN  
SHEET NO.

Diridon Station Programming & Area Requirements Table					
Category	Description	Formula	Requirement Area / Unit	Comments	
Daily Peak Ridership Boardings 2040	Long Distance	15,430	15,430	Planning Memorandum Station Boardings, Access, Egress and Parking INST-PLAN-05	
P360B	Highest Daily Boardings x Conversion Factor for Boardings = 6 Hour Boardings	Highest Daily Boardings x 0.67=P360B 6,000 x 0.67	10,338	California HSTP Design Criteria, Chapter 14-Stations, Oct 2015, Working Draft, Rev. 2 Table 14-1 Passenger Ridership Assumptions Table 14-3 Concourse Circulation and Waiting Areas	
P360A	Peak 6 Hour Boardings x Conversion Factor for Alightings = 6 Hour Alightings	P360B x 0.75=P360A 10,385 x 0.75	7,754		
P60B	Peak 6 Hour Boardings x Peak Hour Conversion Factor for Boardings = Peak Hour Boardings	P360B x 0.17=P60B 10,385 X 0.17	1,757		
P60A	Peak Hour Boardings x Peak Hour Conversion Factor for Alightings = Peak Hour Alightings	P60B x 0.75=P60A 1,765 x 0.75	1,318		
P30B	Peak Hour Boardings /2 x Surge Factor = Peak 30 Minute Boardings	(P60B /2) x 1.2=P30B (1,765/2) x 1.2	1,054		
P30A	Peak 30 Minute Boardings x Conversion Factor = Peak 30 Minute Alightings	P30B x 0.075=P30A 1,059 x 0.75	791		
P15B	Peak Hour Boardings / 4 x Surge Factor = Peak 15 Minute Boardings	(P60B /4) x 1.3= P15B (1,765 /4) x 1.3	571		
P15A	Peak 15 Minute Boardings x Conversion Factor=Peak 15 Minute Alightings	P15B x 0.75=P15A 574 x 0.75	428		
P5B	Peak Hour Boardings /12 x Surge Factor = Peak 5 Minute Boardings	(P60B /12) x 1.4= P5B (1,765 /12) x 1.4	205		
P5A	Peak 5 Minute Boardings x Conversion Factor = Peak 5 Minute Alightings	P5B x 0.75=P5A 206 x 0.75	154		
P1B	Peak Hour Boardings /60 x Surge Factor=Peak 1 Minute Boardings	(P60B /60) x 1.5=P1B (1,765/60) x 1.5	44		
P1A	Peak 1 Minute Boardings x Conversion Factor for Alightings=Peak 1 Minute Alightings	P1Bx0.75 17x0.75	33		
Cf	Unobstructed Net Concourse Free Public Area Circulation Width	(P15B+P15A)/(15x10 people/ft/min) or 16 ft min. (222+167)/(15x10 people/ft/min)	16		
Wf	Net Waiting Area in Concourse Free Public Area	((P15Bx1.1) + (P15Ax0.1))x 14 SF ((222x1.1) + (167x0.1)) x 14	9,396		
Public Restrooms	Women + Men + Unisex Accessible Restroom for Each Group	(P15B+P15A)/ 2 (222+167) /2	499.8		14.3.4 Public Restrooms
Passenger Amenity Space Allocation	Station Design Target Year Daily Boardings	9,000	9,000		California HSTP Design Criteria, Chapter 14 - Stations, March Rev. 2 14.3.5.5 Station Public Amenity (Commercial) Spaces, Table 14-7
Ticket Windows	Station Quantity	P60B/600 1765/600	3		
Ticket Vending Machines		P60B/280 1765/280	6	14.3.5.6	
Value Added Machines	2 Per Each Fare Paid Area		3	14.3.5.6	
Fare Gates		P15A /50 ppm 430/50 One additional gate to be provided if under 10	9	14.3.5.6 D	
Emergency Gates			2	14.3.3.6	
Sr	Seating at Concourse Fare Free Waiting Area	((P15B x 1.1) + (P15A x 0.1)) x 0.25	1,581	Table 14-22: Station Seating	

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 62 OF 216**

					DESIGNED BY	<b>RECORD P E P D SUBMITTAL</b>  <b>MAY 3, 2019</b>  <b>NOT FOR CONSTRUCTION</b>	 1111 Broadway 9th Floor Oakland, CA 94607		<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 SAN JOSE DIRIDON STATION FACILITY SIZING TABLE			CONTRACT NO. HSR15-34
					DRAWN BY				DRAWING NO. AR-Y0104			
					CHECKED BY				SCALE AS SHOWN			
					IN CHARGE				SHEET NO.			
					D-TE							
REV	D-TE	BY	CHK	-PP	DESCRIPTION							

**Diridon Station Facility Sizing Table**

Projected Daily Ridership (2040) 15,430, based on CHSR Planning Memorandum Station Boardings, Access, Egress and Parking

STATION TYPE: Intermediate, Full-Service, Small: based on Chapter 14 Stations Design Criteria, Table 14-3

	Function Name	Area (SF)	EF	Required Area (SF)	Formula	Chapter 14: Stations	Comments
Concourse Public Free Areas	Station Concourse (Free Area - Main Hall)	35,984	1.2	29,987	P15 x 30 SF /person 389 x 30	14.3.5.3	P15 = P15 B + P15 A = 389 Using Memorandum dated May 10, 2016, Attachment E Facility Sizing Table Example
	Entrances					14.3.5.2	# TBD, 15 ft width at least one entrance
	Mezzanine						Included with the concourse Area
	Passenger Waiting Area	11,275	1.2	9,396	((P15B x 1.1)+(P15Ax0.1)) x 14 SF	14.3.5.3.B.C Table 14-3	California HSTP Design Criteria, Chapter 14-Stations, March 2016, Rev. 2, Table 14-1 Passenger Ridership Assumptions, Table 14-3 Concourse Circulation and Waiting Areas
	Ticket Vending Machines (TVM)	188	1.2	6	P60B/280, 1765/280	Table 14-5	Includes queuing space
	Baggage Storage (Concessionaire)	TBD					TBD
	Retail (Concessionaire)	10,800	1.2	9,000		Table 14-7	More than 15,000 daily boardings
	Restaurant (Concessionaire)	0				Table 14-7	Included in the 9,000 SF
	Food Service (Concessionaire)	0				Table 14-7	Included in the 9,000 SF
	Business Lounge	720	1.2	600		14.3.5.7.C	Without restrooms
	Public Restrooms	2,448	1.2	2040	CBC 2016, CPC 2016 (P15B + P15A)/2	14.3.5.4	A-3 assembly occupancy, 502 male, 502 female, 2 unisex Female: 7 water closets, 5 lavatories Male: 3 water closets, 4 urinal, 5 lavatories 2 drinking fountains
	Janitor Closets	288	1.2	240	60 x 4	14.3.7.1.D	Located in concourse free area, platform, and each restroom.
Standard Areas	Ticket Window Counters	879	2	150	Window Counter 5F min. 75 SF/window (2 windows) P60B/600, 1,765/600	14.3.5.6.B 14.3.5.7A	
	Station Patron Information Booth	100	1	100	Standard Unit (Kiosk)	14.3.5.7.B	
	Red "Cap" Booth						TBD
Security	Police Office	1,000	2	500		14.3.6.2.A	
	Police Restrooms + Lockers			TBD	CBC 2016, CPC 2016		
	Janitor Closets	120	2	60		14.3.7.1.D	
	Security Guard Office	288	2	144		14.3.6.2.B	

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 63 OF 216**

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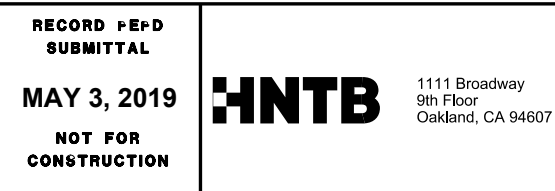
  

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**MAY 3, 2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN JOSE TO MERCED**

SAN JOSE DIRIDON STATION APPROACH  
VIADUCT TO I-880  
SAN JOSE DIRIDON STATION  
FACILITY SIZING TABLE

CONTRACT NO. HSR15-34
DRAWING NO. AR-Y0105
SCALE AS SHOWN
SHEET NO.

**Diridon Station Facility Sizing Table**



Projected Daily Ridership (2040) 15,430, based on CHSR Planning Memorandum Station Boardings, Access, Egress and Parking

STATION TYPE: Intermediate, Full-Service, Small: based on Chapter 14 Stations Design Criteria, Table 14-3

	Function Name	Area (SF)	EF	Required Area (SF)	Formula	Chapter 14: Stations	Comments
Non-Public Station Staff Only	Ticket Administration, Handling & Storage	520	2	260		14.3.5.6.B 14.3.5.7 14.3.6.2.C-D	Ticket Administration Office 75 SF /window
	Lost & Found & First Aid Room	400	2	200	100 SF x (2)	14.3.6.1.E-F	
	Station Control Room (SCR)	2,200	2	1,100		14.3.6.2.E	
	Main Station Computer Room	1,000	2	500		14.3.6.2.F	
	Temporary Incident Command Post (CP)	600	2	300		14.3.6.2.G	
	Station Operation Room (SOR)	2,200	2	1,100		14.3.6.2.H	
	SOR Dedicated Computer Room, SOR Workroom	1,000	2	500		14.3.6.2.F-H	
	Main OCC Computer Room	1,000	2	500		14.6.3.2.F	
	Staff Lockers, Showers, Restrooms	TBD	2		CBC 2016	14.3.6.1.I	Will need number of staff projection to determine SF required.
	Janitor Closets	120	2	60		14.3.7.1.C	
	Staff Breakroom & Meeting Rooms	800	2	400	200 SF x (2)	14.3.6.1.G-H	200 SF min or as req to provide 25 SF /staff
	Station Manager Office	288	2	144		14.3.6.1.A	
	Facility Manager's Office	288	2	144		14.3.6.1.C	
	Administration Office Space	600	2	300		14.3.6.1.B	
	Facilities Maintenance Office	660	2	330		14.3.6.1.C	
	Station General Storage Rooms	400	2	200		14.3.7.1.E	Add 60 SF for miscellaneous storage if required.
	Platform Area Op. Mgt. Booth	100	1	100	Standard Unit	14.3.6.2.I	One OMB to be provided on each platform.
	Train Control /Communications Room	3,830	2	1,915		14.3.7.2	Table 14-8, for the train control and communications equipment.
	Entrance Facility Room	480	2	240		14.3.7.2	Table 14-8, for entry of service cabling into the building. May be co-located with the TCC room.
	3rd Party Telecom Room	240	2	120		14.3.7.2	Table 14-8, for local telephone company.
Communications Closets	260	2	130	130 SF each	14.3.7.2	Table 14-8, number TBD. Locate close to center of each 10,000 SF of station floor area.	
Renewable Energy/Stormwater			TBD				
Building Services & Plant Rooms	Mech., Elec. & Plumbing Rooms			TBD	Gross Factor	14.3.7.2	
	Battery Room	800	2	400	200 SF x (2)	14.3.7.4.B	Two rooms required, including one room at each end of station for low voltage (LV) batteries.
	UPS Room	3,600	2	1,800	900 SF x (2)	14.3.7.4.C	Two rooms required, one at each end of station for LV distribution, transforming, EP
	Fire Detection & Protection Rooms			TBD	Gross Factor	14.3.7.6	
Maint. Support Areas	Main Station Recycling/Refuse	300	2	150	150 SF min.	14.3.7.1.A	
	Secondary Station Recycling	120	2	60		14.3.7.1.C	
	Landscape Maintenance Room	200	2	100		14.3.7.1.F	
	Loading Dock			TBD		14.3.7.1.H	

**TOTAL AREA - WEST ENTRANCE & CONCOURSE: 86,096 SF**

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 64 OF 216**

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**Diridon Station Facility Sizing Table**

Projected Daily Ridership (2040) 15,430, based on CHSR Planning Memorandum Station Boardings, Access, Egress and Parking



STATION TYPE: Intermediate, Full-Service, Small: based on Chapter 14 Stations Design Criteria, Table 14-3

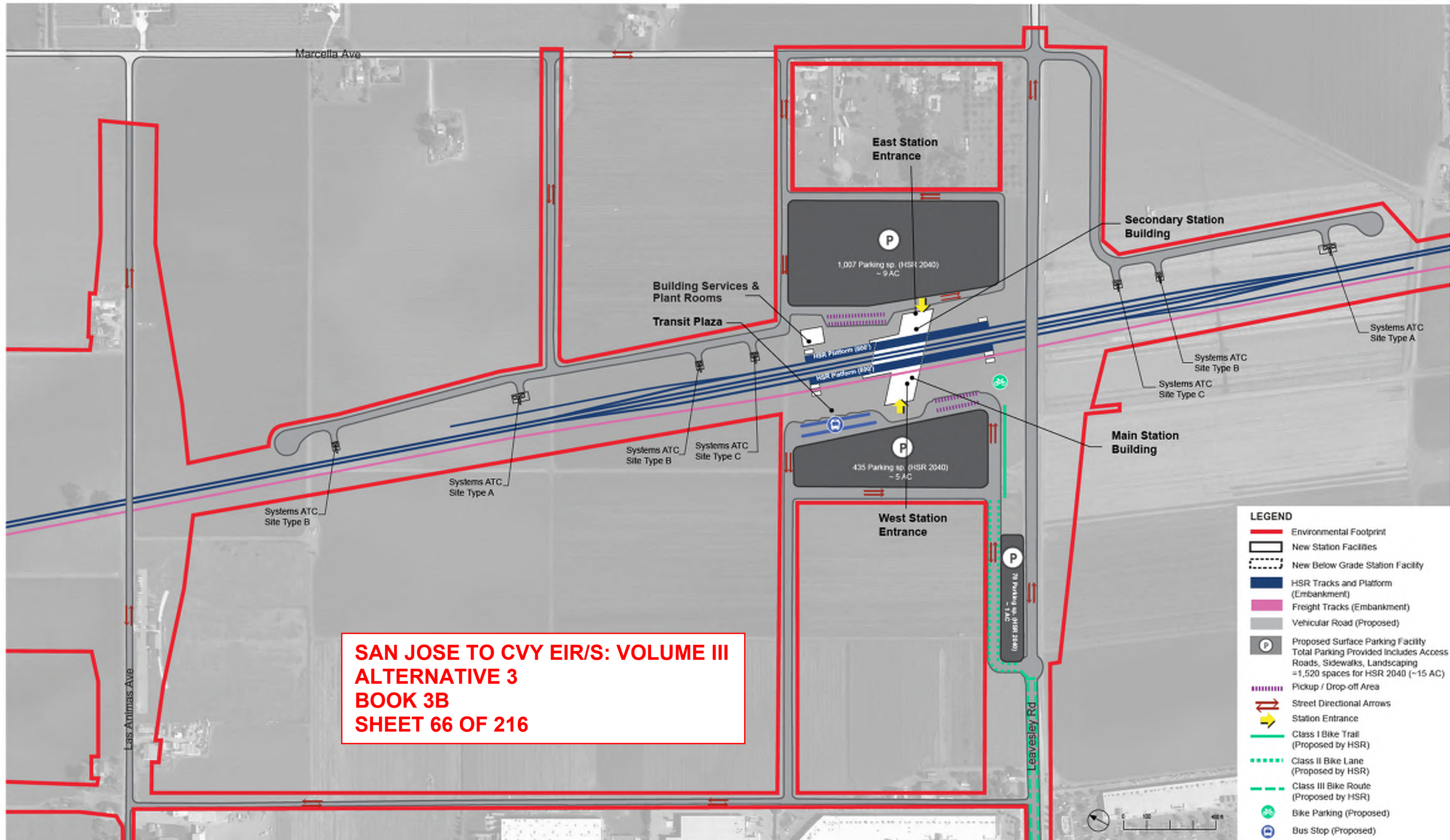
	Function Name	Area (SF)	EF	Required Area (SF)	Formula	Chapter 14: Stations	Comments
Concourse Public Free Areas West Station	Concourse (Free Area)	8,996.09	1.2	7,497	P15 x 30 SF /person, 251x30	14.3.5.3	P15 = P15 B + P15 A. Using Memorandum dated May 10, 2016, Attachment E Facility Sizing Table Example 20% - 25% of the P15 of the Main Station North Entrance, about 97 passengers.
	Entrances					14.3.5.2	# TBD, 15 ft width at least one entrance
	Passenger Waiting Area	2,818.77	1.2	2349	(((P15B x1.1) + (P15Ax0.1))x25%) x 14 SF	14.3.5.3.B.C Table 14-3	California HSTP Design Criteria, Chapter 14-Stations, March 2016, Rev. 2 and October 2015, Working Draft, Rev. 2 Table 14-1 Passenger Ridership Assumptions, Table 14-3 Concourse Circulation and Waiting Areas 20% - 25% of 15B (Main Station) = 56; 20% - 25% of 15A (Main Station)
	Ticket Vending Machines (TVM)	82.00		2	P60B/280, 683x25%/280	Table 14-5	Includes queuing space; 20% -25% of P60 B (Main Station) 170
	Public Restrooms	1,224.00	1.2	1020	CBC 2016, CPC 2016 (P15B + P15A)/2	14.3.5.4	A-3 assembly occupancy, 250 male, 250 female, 2 unisex Female: 4 water closets, 2 lavatories Male: 2 water closets, 2 urinal, 2 lavatories 2 drinking fountains
	Janitor Closet	72	1.2	60		14.3.7.1.D	

**TOTAL AREA - EAST ENTRANCE: 13,193 SF**

	Platform Area (800'x30')x2	48,000					
	Bus Bays						Included in Cahill transit street improvement
	Parking Area						No parking for HSR provided
	Pickup and Drop-off						Included in Cahill transit street improvement

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 65 OF 216**

					DESIGNED BY	<b>RECORD P E P D SUBMITTAL</b>  <b>MAY 3, 2019</b>  <b>NOT FOR CONSTRUCTION</b>	 1111 Broadway 9th Floor Oakland, CA 94607		<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 SAN JOSE DIRIDON STATION FACILITY SIZING TABLE			CONTRACT NO. HSR15-34
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**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 66 OF 216**

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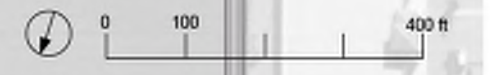


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
MORGAN HILL AND GILROY  
VIADUCT TO EAST GILROY  
EAST GILROY STATION  
GENERAL SITE PLAN

CONTRACT NO.  
**HSR15-34**  
DRAWING NO.  
**AR-C1101**  
SCALE  
**AS SHOWN**  
SHEET NO.

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 67 OF 216**

- LEGEND**
- Total 2040 HSR Parking (Surface) = 1,520 spaces (~15 AC)
  - New Station Facilities
  - New Below Grade Station Facility
  - HSR Tracks and Platform (Embankment)
  - Freight Tracks (Embankment)
  - Pedestrian Area
  - Bike Parking
  - Solar Panel Area
  - E Escalator Locations
  - S Stair Locations
  - E Elevator Locations



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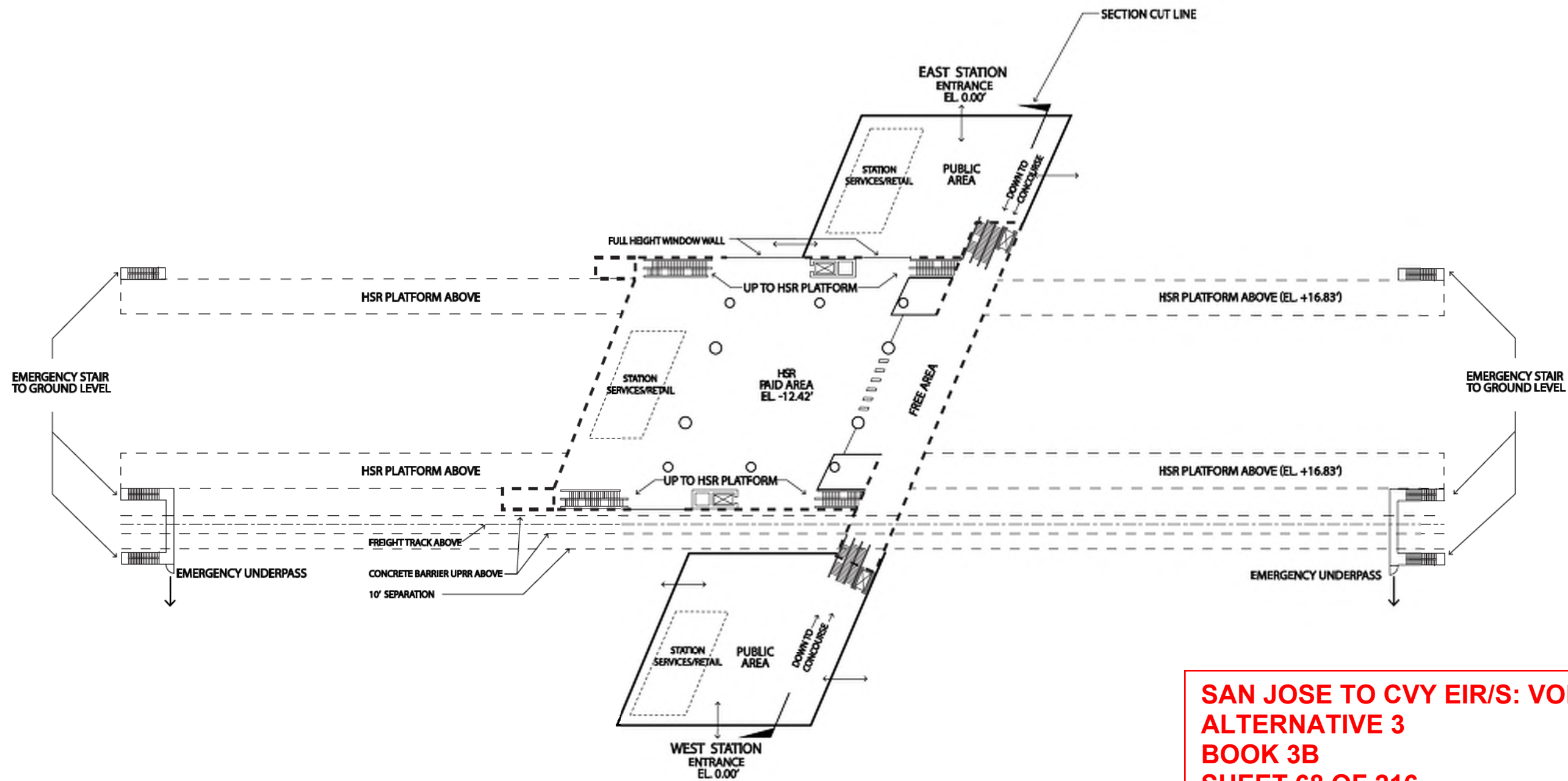
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
MORGAN HILL AND GILROY VIADUCT TO EAST GILROY  
EAST GILROY STATION  
DETAILED SITE PLAN

CONTRACT NO.	HSR15-34
DRAWING NO.	AR-C1102
SCALE	AS SHOWN
SHEET NO.	



**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 68 OF 216**



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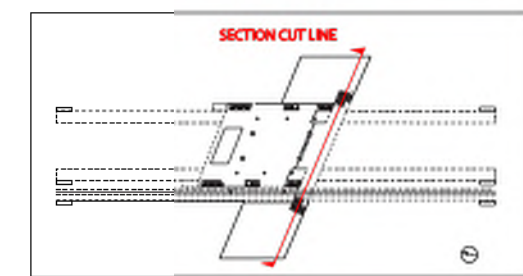
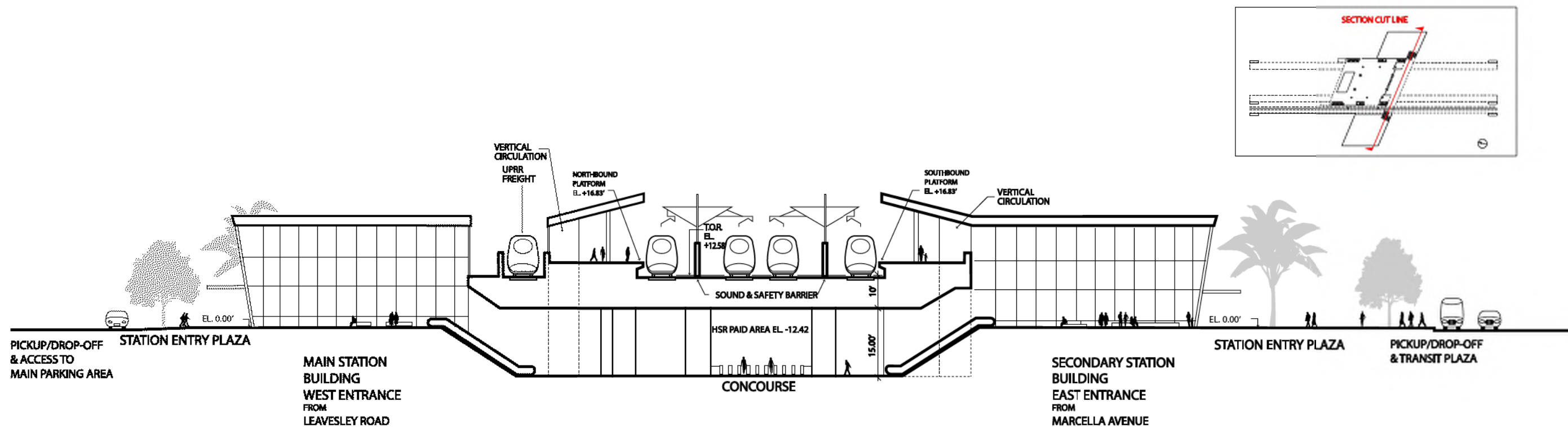
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 MORGAN HILL AND GILROY  
 VIADUCT TO EAST GILROY  
 EAST GILROY STATION  
 CONCOURSE PLAN

CONTRACT NO.	HSR15-34
DRAWING NO.	AR-F1101
SCALE	AS SHOWN
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**SAN JOSE TO CVY EIR/S: VOLUME III**  
**ALTERNATIVE 3**  
**BOOK 3B**  
**SHEET 69 OF 216**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 MORGAN HILL AND GILROY  
 VIADUCT TO EAST GILROY  
 EAST GILROY STATION  
 SECTION

CONTRACT NO.	HSR15-34
DRAWING NO.	AR-Y1101
SCALE	AS SHOWN
SHEET NO.	



**SAN JOSE TO CVY EIR/S: VOLUME III  
 ALTERNATIVE 3  
 BOOK 3B  
 SHEET 70 OF 216**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 SAN JOSE TO MERCED**  
 MORGAN HILL AND GILROY  
 VIADUCT TO EAST GILROY  
 EAST GILROY STATION  
 MASSING DIAGRAM

CONTRACT NO.  
 HSR15-34  
 DRAWING NO.  
 AR-Y1102  
 SCALE  
 AS SHOWN  
 SHEET NO.

East Gilroy Station Programming & Area Requirements Table				
Category	Description	Formula	Requirement Area / Unit	Comments
Daily Peak Ridership Boardings 2040	Long Distance	6,210	6,210	Planning Memorandum Station Boardings, Access, Egress and Parking INST-PLAN-05
P360B	Highest Daily Boardings x Conversion Factor for Boardings = 6 Hour Boardings	Highest Daily Boardings x 0.67=P360B 6,000 x 0.67	4,161	California HSTP Design Criteria, Chapter 14-Stations, Oct 2015, Working Draft, Rev. 2 Table 14-1 Passenger Ridership Assumptions Table 14-3 Concourse Circulation and Waiting Areas
P360A	Peak 6 Hour Boardings x Conversion Factor for Alightings = 6 Hour Alightings	P360B x 0.75=P360A 4,020 x 0.75	3,121	
P60B	Peak 6 Hour Boardings x Peak Hour Conversion Factor for Boardings = Peak Hour Boardings	P360B x 0.17=P60B 4,020 x 0.17	707	
P60A	Peak Hour Boardings x Peak Hour Conversion Factor for Alightings = Peak Hour Alightings	P60B x 0.75=P60A 683 x 0.75	530	
P30B	Peak Hour Boardings /2 x Surge Factor = Peak 30 Minute Boardings	(P60B /2) x 1.2=P30B (683/2) x 1.2	424	
P30A	Peak 30 Minute Boardings x Conversion Factor = Peak 30 Minute Alightings	P30B x 0.075=P30A 410 x 0.75	318	
P15B	Peak Hour Boardings /4 x Surge Factor = Peak 15 Minute Boardings	(P60B /4) x 1.3= P15B (683 /4) x 1.3	230	
P15A	Peak 15 Minute Boardings x Conversion Factor = Peak 15 Minute Alightings	P15B x 0.75=P15A 222 x 0.75	172	
P5B	Peak Hour Boardings /12 x Surge Factor = Peak 5 Minute Boardings	(P60B /12) x 1.4=P5B (683 /12) x 1.4	83	
P5A	Peak 5 Minute Boardings x Conversion Factor = Peak 5 Minute Alightings	P5B x 0.75=P5A 80 x 0.75	62	
P1B	Peak Hour Boardings /60 x Surge Factor = Peak 1 Minute Boardings	(P60B /60) x 1.5=P1B (863/60) x 1.5	18	
P1A	Peak 1 Minute Boardings x Conversion Factor for Alightings = Peak 1 Minute Alightings	P1Bx0.75 17x0.75	13	
Cf	Unobstructed Net Concourse Free Public Area Circulation Width	(P15B+P15A)/(15x10 people/ft/min) or 16 ft min. (222+167)/(15x10 people/ft/min)	16	
Wf	Net Waiting Area in Concourse Free Public Area	((P15Bx1.1) + (P15Ax0.1))x 14 SF ((222x1.1) + (167x0.1)) x 14	3,782	
Public Restrooms	Women + Men + Unisex Accessible Restroom for Each Group	(P15B+P15A) / 2 (222+167) /2	201	
Passenger Amenity Space Allocation	Station Design Target Year Daily Boardings	6,000	6,000 SF	California HSTP Design Criteria, Chapter 14 - Stations, March Rev. 2 14.3.5.5 Station Public Amenity (Commercial) Spaces, Table 14-7
Ticket Windows	Station Quantity	P60B/600 683/600	2	
Ticket Vending Machines		P60B/280 683/280	3	14.3.5.6
Value Added Machines	2 Per Each Fare Paid Area		3	14.3.5.6
Fare Gates		P15A /50 ppm 167/50 One additional gate to be provided if under 10	3	14.3.5.6 D
Emergency Gates			2	14.3.3.6
Side Platform Station	Peak Hour Boarding and Fully Occupied Train Alighting	P60B + 900 p	1,607	14.3.6.2
Sr	Seating at Concourse Fare Free Waiting Area	((P15B x 1.1) + (P15A x 0.1)) x 0.25	636	Table 14-22: Station Seating

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 71 OF 216**

					DESIGNED BY	<b>MAY 3, 2019</b>	<b>HNTB</b>	1111 Broadway 9th Floor Oakland, CA 94607	 <b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED</b> MORGAN HILL AND GILROY VIADUCT TO EAST GILROY EAST GILROY STATION FACILITY SIZING TABLE			CONTRACT NO.	HSR15-34
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**East Gilroy Station Facility Sizing Table**

Projected Daily Ridership (2040) 6,210, based on CHSR Planning Memorandum Station Boardings, Access, Egress and Parking

STATION TYPE: Intermediate, Full-Service, Small: Based on Chapter 14 Stations Design Criteria, Table 14-3

	Function Name	Area (SF)	EF	Required Area (SF)	Formula	Chapter 14: Stations	Comments
Concourse Public Free Areas	Station Concourse (Free Area - Main Hall)	14,482	1.2	12,069	P15 x 30 SF/person 389 x 30	14.3.5.3	P15 = P15 B + P15 A = 389 Using Memorandum dated May 10, 2016, Attachment E Facility Sizing Table Example
	Entrances					14.3.5.2	# TBD, 15 ft width at least one entrance
	Mezzanine						Included with the concourse area
	Passenger Waiting Area	4,538	1.2	3,782	$((P15B \times 1.1) + (P15A \times 0.1)) \times 14$ SF	14.3.5.3.B.C Table 14-3	California HSTP Design Criteria, Chapter 14-Stations, March 2016, Rev. 2, Table 14-1 Passenger Ridership Assumptions, Table 14-3 Concourse Circulation and Waiting Areas
	Ticket Vending Machines (TVM)	121		3	P60B/280, 683/280	Table 14-5	Includes queuing space
	Baggage Storage (Concessionaire)	TBD					TBD
	Retail (Concessionaire)	7,200	1.2	6,000		Table 14-7	5,000 - 10,000 daily boardings
	Restaurant (Concessionaire)	0				Table 14-7	Included in the 6,000 SF
	Food Service (Concessionaire)	0				Table 14-7	Included in the 6,000 SF
	Business Lounge	720	1.2	600		14.3.5.7.C	Without restrooms
Public Restrooms	1,248	1.2	1,040	CBC 2016, CPC 2016 (P15B + P15A)/2	14.3.5.4	A-3 assembly occupancy, 195 male, 195 female, 2 unisex Female: 4 water closets, 2 lavatories Male: 3 water closets, 1 urinal, 2 lavatories 2 drinking fountains	
Janitor Closets	288	1.2	240	60 x 4	14.3.7.1.D	Located in concourse free area, platform, and each restroom.	
Standard Areas	Ticket Window Counters	300	2	150	Window Counter 5F min. 75 SF/window (2 windows) P60B/600, 683/600	14.3.5.6.B 14.3.5.7A	
	Station Patron Information Booth	100	1	100	Standard Unit (Kiosk)	14.3.5.7.B	
	Red "Cap" Booth						TBD
Security	Police Office	1,000	2	500		14.3.6.2.A	
	Police Restrooms + Lockers			TBD	CBC 2016, CPC 2016		
	Janitor Closets	120	2	60		14.3.7.1.D	
	Security Guard Office	288	2	144		14.3.6.2.B	

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 72 OF 216**

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**MAY 3, 2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN JOSE TO MERCED**  
MORGAN HILL AND GILROY  
VIADUCT TO EAST GILROY  
EAST GILROY STATION  
FACILITY SIZING TABLE

CONTRACT NO. HSR15-34
DRAWING NO. AR-Y1104
SCALE AS SHOWN
SHEET NO. SHEET 2 OF 4



**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 73 OF 216**

East Gilroy Station Facility Sizing Table							
Projected Daily Ridership (2040) 6,210, based on CHSR Planning Memorandum Station Boardings, Access, Egress and Parking							
STATION TYPE: Intermediate, Full-Service, Small: based on Chapter 14 Stations Design Criteria, Table 14-3							
	Function Name	Area (SF)	EF	Required Area (SF)	Formula	Chapter 14: Stations	Comments
Non-Public Station Staff Only	Ticket Administration, Handling & Storage	520	2	260		14.3.5.6.B 14.3.5.7 14.3.6.2.C-D	Ticket administration office 75 SF/window
	Lost & Found & First Aid Room	400	2	200	100 SF x (2)	14.3.6.1.E-F	
	Station Control Room (SCR)	2,200	2	1,100		14.3.6.2.E	
	Main Station Computer Room	1,000	2	500		14.3.6.2.F	
	Temporary Incident Command Post (CP)	600	2	300		14.3.6.2.G	
	Station Operation Room (SOR)	2,200	2	1,100		14.3.6.2.H	
	SOR Dedicated Computer Room, SOR Workroom	1,000	2	500		14.3.6.2.F-H	
	Main OCC Computer Room	1,000	2	500		14.6.3.2.F	
	Staff Lockers, Showers, Restrooms	TBD	2		CBC 2016	14.3.6.1.I	Will need number of staff projection to determine SF required.
	Janitor Closets	120	2	60		14.3.7.1.C	
	Staff Breakroom & Meeting Rooms	800	2	400	200 SF x (2)	14.3.6.1.G-H	200 SF min or as req to provide 25 SF /staff
	Station Manager Office	288	2	144		14.3.6.1.A	
	Facility Manager's Office	288	2	144		14.3.6.1.C	
	Administration Office Space	600	2	300		14.3.6.1.B	
	Facilities Maintenance Office	660	2	330		14.3.6.1.C	
	Station General Storage Rooms	400	2	200		14.3.7.1.E	Add 60 SF for miscellaneous storage if required.
	Platform Area Op. Mgt. Booth	100	1	100	Standard Unit	14.3.6.2.I	One OMB to be provided on each platform.
	Train Control/Communications Room	3,830	2	1,915		14.3.7.2	Table 14-8, for the train control and communications equipment.
	Entrance Facility Room	480	2	240		14.3.7.2	Table 14-8, for entry of service cabling into the building. May be co-located with the TCC room.
	3rd Party Telecom Room	240	2	120		14.3.7.2	Table 14-8, for local telephone company.
Communications Closets	260	2	130	130 SF each	14.3.7.2	Table 14-8, number TBD. Locate close to center of each 10,000 SF of station floor area.	
Renewable Energy/Stormwater			TBD				
Building Services & Plant Rooms	Mech., Elec. & Plumbing Rooms			TBD	Gross Factor	14.3.7.2	
	Battery Room	800	2	400	200 SF x (2)	14.3.7.4.B	Two rooms required, including one room at each end of station for low voltage (LV) batteries.
	UPS Room	3,600	2	1,800	900 SF x (2)	14.3.7.4.C	Two rooms required, one at each end of station for LV distribution, transforming, EP.
	Fire Detection & Protection Rooms			TBD	Gross Factor	14.3.7.6	
Maint. Support Areas	Main Station Recycling/Refuse	300	2	150	150 SF min.	14.3.7.1.A	
	Secondary Station Recycling	120	2	60		14.3.7.1.C	
	Landscape Maintenance Room	200	2	100		14.3.7.1.F	
	Loading Dock			TBD		14.3.7.1.H	
<b>TOTAL AREA - WEST ENTRANCE &amp; CONCOURSE:</b>		<b>52,411</b>	<b>SF</b>				

DESIGNED BY	MAY 3, 2019		1111 Broadway 9th Floor Oakland, CA 94607		<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> MORGAN HILL AND GILROY VIADUCT TO EAST GILROY EAST GILROY STATION FACILITY SIZING TABLE	CONTRACT NO.	HSR15-34
DR - WN BY						DRAWING NO.	AR-Y1105
CHECKED BY						SCALE	AS SHOWN
IN CH - RGE						SHEET NO.	SHEET 3 OF 4
D - TE							
REV	D - TE	BY	CHK	-PP	DESCRIPTION		

**East Gilroy Station Facility Sizing Table**

Projected Daily Ridership (2040) 6,210, based on CHSR Planning Memorandum Station Boardings, Access, Egress and Parking

STATION TYPE: Intermediate, Full-Service, Small: based on Chapter 14 Stations Design Criteria, Table 14-3

	Function Name	Area (SF)	EF	Required Area (SF)	Formula	Chapter 14: Stations	Comments
Concourse Public Free Areas West Station	Concourse (Free Area)	7,241	1.2	6,034	P15 x 30 SF/person, 97x30	14.3.5.3	P15 = P15 B + P15 A. Using Memorandum dated May 10, 2016, Attachment E Facility Sizing Table Example 20% - 25% of the P15 of the Main Station North Entrance, about 97 passengers. (Adjusted to 50% of P15 to accommodate passenger access from west side of station per planning.)
	Entrances					14.3.5.2	# TBD, 15 ft width at least one entrance
	Passenger Waiting Area	2,269	1.2	1,891	$(((P15B \times 1.1) + (P15A \times 0.1)) \times 25\%) \times 14 \text{ SF}$	14.3.5.3.B.C Table 14-3	California HSTP Design Criteria, Chapter 14-Stations, March 2016, Rev. 2 and October 2015, Working Draft, Rev. 2 Table 14-1 Passenger Ridership Assumptions, Table 14-3 Concourse Circulation and Waiting Areas 20% - 25% of 15B (Main Station) = 56; 20% - 25% of 15A (Main Station). (Adjusted to 50% of P15 to accommodate passenger access from west side of station per planning.)
	Ticket Vending Machines (TVM)	82		2	P60B/280, 683x25%/280	Table 14-5	Includes queuing space; 20% -25% of P60 B (Main Station) 170
	Public Restrooms	936	1.2	780	CBC 2016, CPC 2016 (P15B + P15A)/2	14.3.5.4	A-3 assembly occupancy, 85 male, 85 female, 2 unisex Female: 2 water closets, 1 lavatories Male: 1 water closets, 1 urinal, 1 lavatories 2 drinking fountains
	Janitor Closet	72	1.2	60		14.3.7.1.D	
<b>TOTAL AREA - EAST ENTRANCE:</b>		<b>10,600</b>	<b>SF</b>				

Platform Area (800'x15')x2	24,000					
Bus Bays	36,960					
Parking Area	653,400					
Pickup and Drop-off	44,150					

**SAN JOSE TO CVY EIR/S: VOLUME III  
ALTERNATIVE 3  
BOOK 3B  
SHEET 74 OF 216**

REV	D-TE	BY	CHK	-PP	DESCRIPTION

DESIGNED BY	
DR - WN BY	
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IN CH - RGE	
D - TE	

**MAY 3, 2019**

**HNTB**  
1111 Broadway  
9th Floor  
Oakland, CA 94607



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN JOSE TO MERCED**  
MORGAN HILL AND GILROY  
VIADUCT TO EAST GILROY  
EAST GILROY STATION  
FACILITY SIZING TABLE

CONTRACT NO.	HSR15-34
DRAWING NO.	AR-Y1106
SCALE	AS SHOWN
SHEET NO.	SHEET 4 OF 4