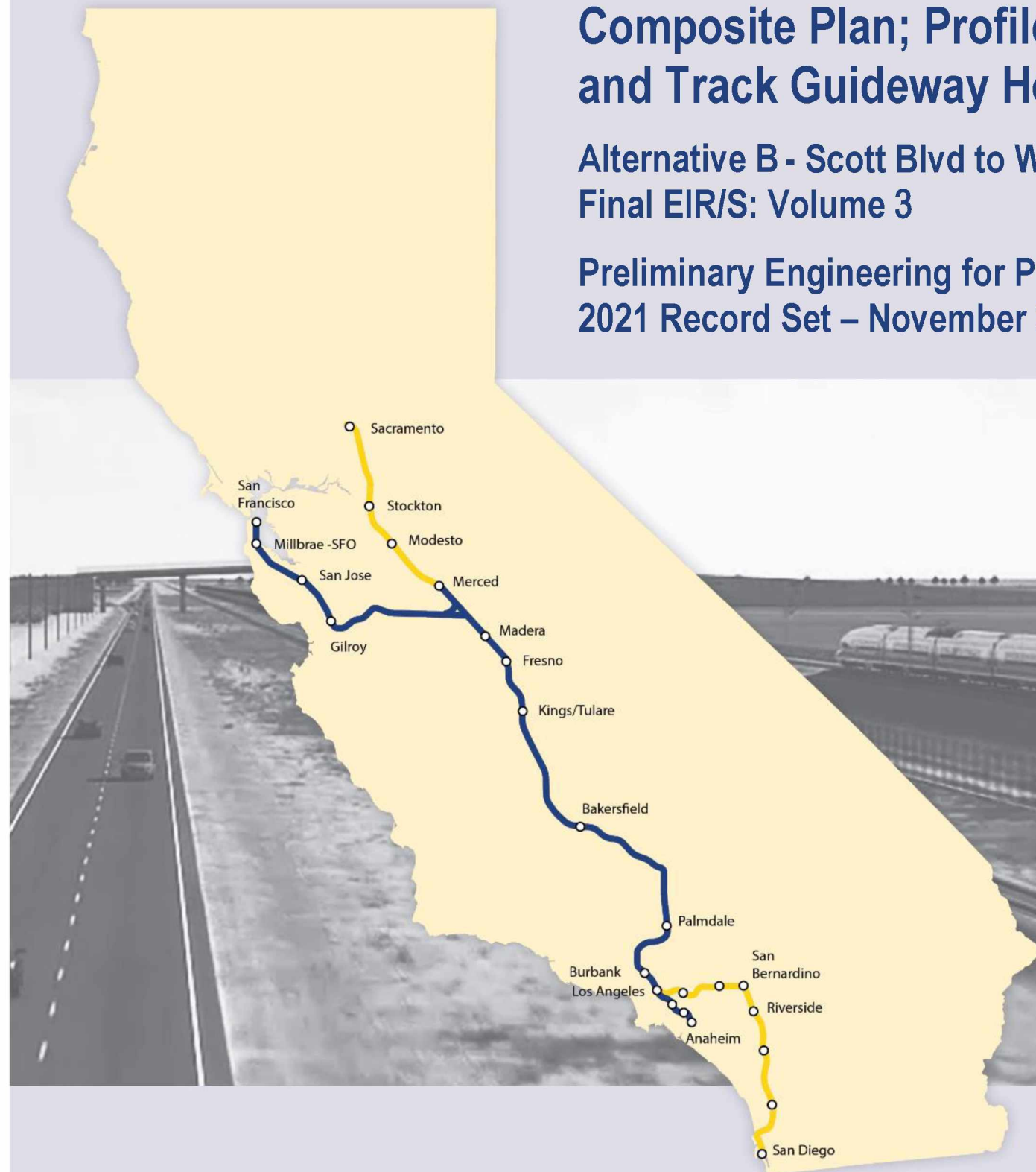


# San Francisco to San Jose Project Section

Composite Plan; Profile; Typical Sections; Stations; Structures; Roadway;  
and Track Guideway Horizontal Alignment Data Table

Alternative B - Scott Blvd to W. Alma Ave (Viaduct to I-880)  
Final EIR/S: Volume 3

Preliminary Engineering for Project Definition  
2021 Record Set – November 2021



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 83 TO 113 OF 146**

**ALTERNATIVE B - SAN FRANCISCO TO SAN JOSE (SCOTT BOULEVARD TO W. ALMA AVE) - VIADUCT TO I-880**

BOOK	SHEET NO	DRAWING NO	SUBSECTION	GEOGRAPHIC LOCATION OR FEATURE	ALIGNMENT OR FEATURE	SHEET DESCRIPTION	ADDITIONAL DESCRIPTION
<b>COVER, INDEX OF DRAWING AND KEY MAPS</b>							
BOOK B5	A	COVER		SCOTT BLVD TO W. ALMA AVE	ALTERNATIVE B	SCOTT BLVD TO W. ALMA	VIADUCT TO I-881
BOOK B5	B	GE-A2105	SAN JOSE DIRIDON STATION APPROACH	SCOTT BLVD TO W. ALMA AVE	INDEX OF DRAWINGS	SHEET 5 OF 6	
BOOK B5	C	GE-D2101	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	SHEET 1 OF 4
BOOK B5	D	GE-D2102	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	SHEET 2 OF 4
BOOK B5	E	GE-D2103	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	SHEET 3 OF 4
BOOK B5	F	GE-D2104	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	SHEET 4 OF 4
BOOK B5	G	GE-D2105	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	SYSTEM SITES	
<b>COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS</b>							
BOOK B5	83	TT-D0151	SAN JOSE DIRIDON STATION APPROACH	SCOTT BLVD TO BROKAW RD	VIADUCT TO I-880	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B2250+00 TO B2340+00
BOOK B5	84	TT-D0152	SAN JOSE DIRIDON STATION APPROACH	I-880 TO W TAYLOR ST	VIADUCT TO I-880	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B2340+00 TO B2430+00
BOOK B5	85	TT-D0153	SAN JOSE DIRIDON STATION APPROACH	CINNABAR ST TO PARK AVE	VIADUCT TO I-880	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B2430+00 TO B58+00
BOOK B5	86	TT-D0301	SAN JOSE DIRIDON STATION APPROACH	PARK AVE TO WILLOW ST	VIADUCT TO I-880	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B58+00 TO B125+00
BOOK B5	87	TT-Y0301	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	PROJECT BOUNDARY DETAILS	
BOOK B5	88	TT-D0401	SAN JOSE DIRIDON STATION APPROACH	WILLOW ST TO CURTNER AVE	VIADUCT TO I-880	COMPOSITE PLAN, PROFILE AND CROSS SECTIONS	B125+00 TO B211+00
BOOK B5	89	TT-Y0401	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT / AT-GRADE	PROJECT BOUNDARY DETAILS	
<b>STATIONS</b>							
BOOK B5	90	AR-C0101	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST, PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	CONCEPTUAL SITE PLAN
BOOK B5	91	AR-C0102	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST, PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	DETAILED SITE PLAN
BOOK B5	92	AR-F0101	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST, PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	CONCOURSE PLAN
BOOK B5	93	AR-Y0101	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST, PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	SECTION
BOOK B5	94	AR-Y0102	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST, PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	MASSING DIAGRAM 1
BOOK B5	95	AR-Y0103	SAN JOSE DIRIDON STATION APPROACH	SANTA CLARA ST, PARK AVE	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	MASSING DIAGRAM 2
BOOK B5	96	AR-Y0104	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	FACILITY SIZING TABLE
BOOK B5	97	AR-Y0105	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	FACILITY SIZING TABLE
BOOK B5	98	AR-Y0106	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	FACILITY SIZING TABLE
BOOK B5	99	AR-Y0107	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	SAN JOSE DIRIDON STATION	FACILITY SIZING TABLE
<b>STRUCTURES</b>							
BOOK B5	100	ST-V0151	SAN JOSE DIRIDON STATION APPROACH	W TAYLOR ST	VIADUCT TO I-880	COMPLEX STRUCTURES	GENERAL PLAN 1 OF 2
BOOK B5	101	ST-V0152	SAN JOSE DIRIDON STATION APPROACH	W SANTA CLARA ST	VIADUCT TO I-880	COMPLEX STRUCTURES	GENERAL PLAN 2 OF 2
BOOK B5	102	ST-T0151	SAN JOSE DIRIDON STATION APPROACH	UPRR T-13, W TAYLOR ST	VIADUCT TO I-880	OVERPASSES AND UNDERPASSES	HEDDING ST AND TAYLOR ST
BOOK B5	103	ST-V0301	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	TYPICAL SECTIONS	SHEET 1 OF 3
BOOK B5	104	ST-V0302	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	TYPICAL SECTIONS	SHEET 2 OF 3
BOOK B5	105	ST-V0303	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	TYPICAL SECTIONS	SHEET 3 OF 3
BOOK B5	106	ST-T0301	SAN JOSE DIRIDON STATION APPROACH	I-880, SR 85	VIADUCT TO I-880	CALTRANS STRUCTURES	GENERAL PLAN
<b>ROADWAY</b>							
BOOK B5	107	CV-T0151	SAN JOSE DIRIDON STATION APPROACH	CHESTNUT AVE, ELM ST	VIADUCT TO I-880	PLAN, PROFILE AND TYPICAL SECTIONS	WEST HEDDING STREET
BOOK B5	108	CV-T0152	SAN JOSE DIRIDON STATION APPROACH	W TAYLOR ST, COLEMAN AVE	VIADUCT TO I-880	PLAN, PROFILE AND TYPICAL SECTIONS	WEST TAYLOR STREET
<b>TRACK GUIDEWAY HORIZONTAL ALIGNMENT DATA TABLE</b>							
BOOK B5	109	TT-B0101-JM	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	TRACK ALIGNMENT DATA TABLE	CURVE NO. C189 AND C190
BOOK B5	110	TT-B0102-JM	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	TRACK ALIGNMENT DATA TABLE	CURVE NO. C191 AND C192
BOOK B5	111	TT-B0103-JM	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	TRACK ALIGNMENT DATA TABLE	CURVE NO. C193
BOOK B5	112	TT-B0104	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C101 AND C102
BOOK B5	113	TT-B0105	SAN JOSE DIRIDON STATION APPROACH	N/A	VIADUCT TO I-880	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C103 AND C104

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET B**

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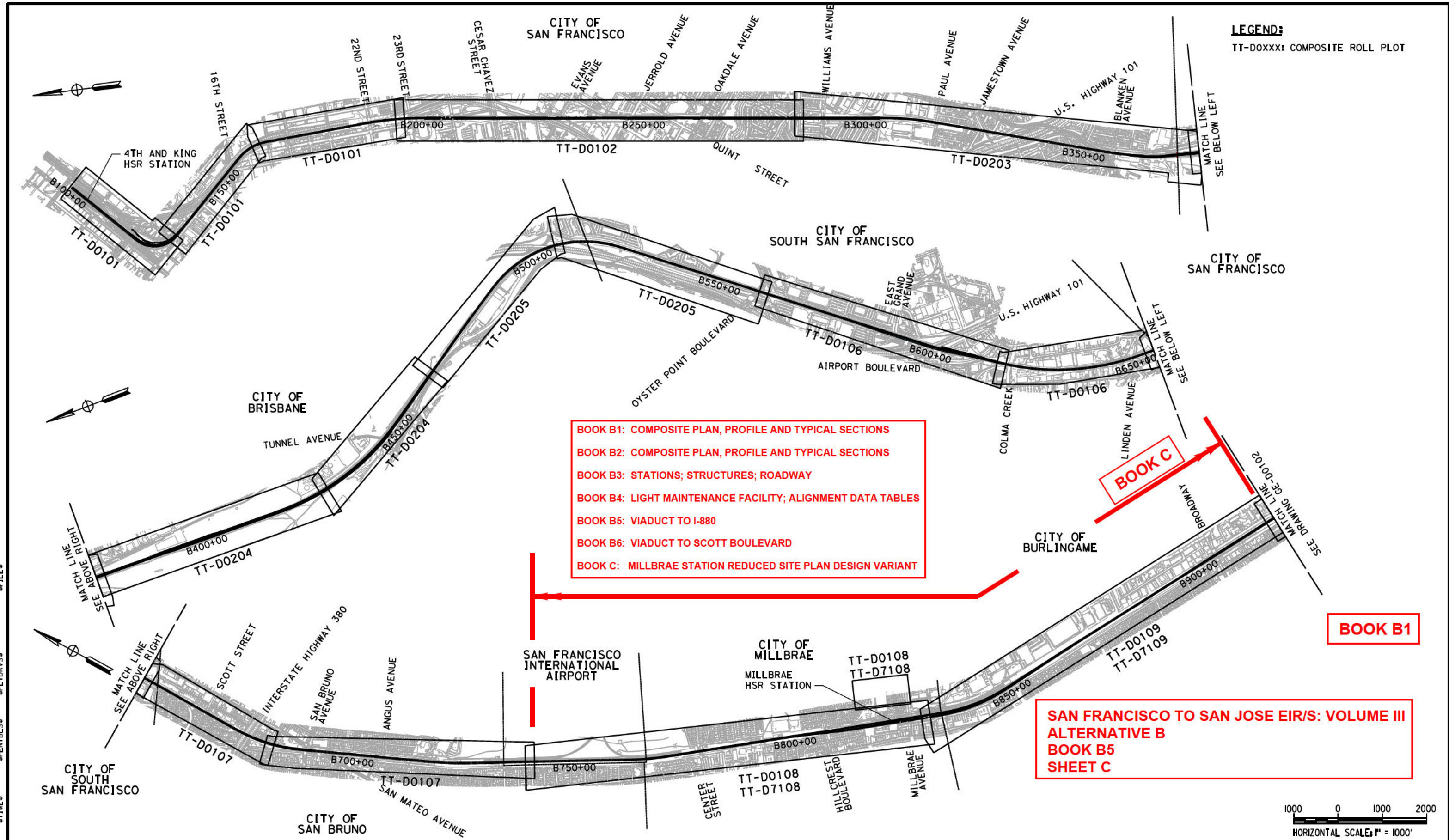
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN FRANCISCO TO SAN JOSE**  
ALTERNATIVE B  
INDEX OF DRAWINGS  
SHEET 5 OF 6

CONTRACT NO.	HSR15-34
DRAWING NO.	GE-A2105
SCALE	NONE
SHEET NO.	



**LEGEND:**  
TT-DOXXX: COMPOSITE ROLL PLOT

**BOOK B1: COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS**  
**BOOK B2: COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS**  
**BOOK B3: STATIONS; STRUCTURES; ROADWAY**  
**BOOK B4: LIGHT MAINTENANCE FACILITY; ALIGNMENT DATA TABLES**  
**BOOK B5: VIADUCT TO I-880**  
**BOOK B6: VIADUCT TO SCOTT BOULEVARD**  
**BOOK C: MILLBRAE STATION REDUCED SITE PLAN DESIGN VARIANT**

**BOOK B1**

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B5  
 SHEET C**

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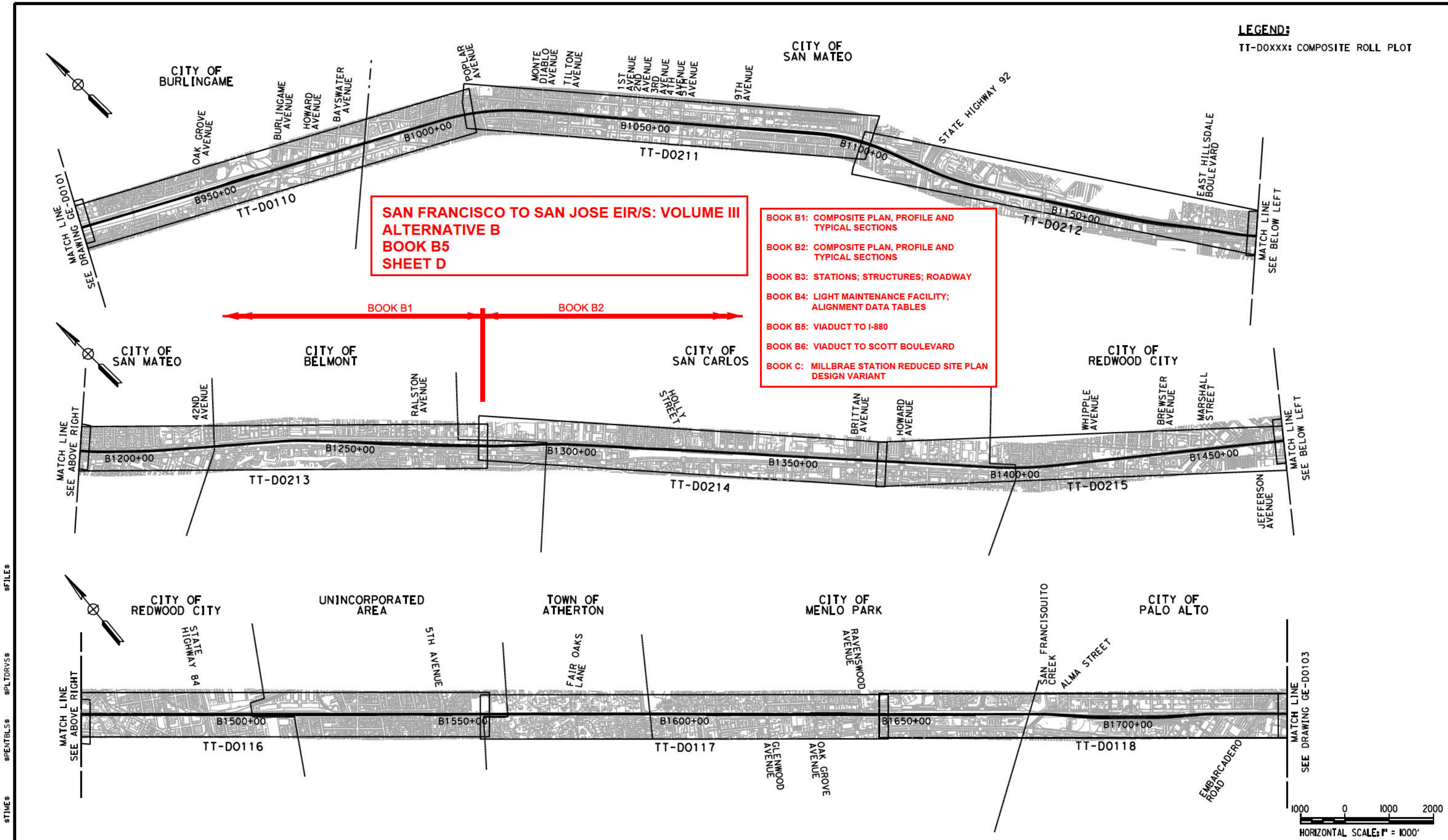
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 KEY MAP  
 COMPOSITE PLAN  
 SHEET 1 OF 4

CONTRACT NO.	HSR15-34
DRAWING NO.	GE-D2101
SCALE	AS SHOWN
SHEET NO.	

**LEGEND:**  
TT-D0XXX: COMPOSITE ROLL PLOT

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET D**

- BOOK B1: COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS
- BOOK B2: COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS
- BOOK B3: STATIONS; STRUCTURES; ROADWAY
- BOOK B4: LIGHT MAINTENANCE FACILITY; ALIGNMENT DATA TABLES
- BOOK B5: VIADUCT TO I-880
- BOOK B6: VIADUCT TO SCOTT BOULEVARD
- BOOK C: MILLBRAE STATION REDUCED SITE PLAN DESIGN VARIANT



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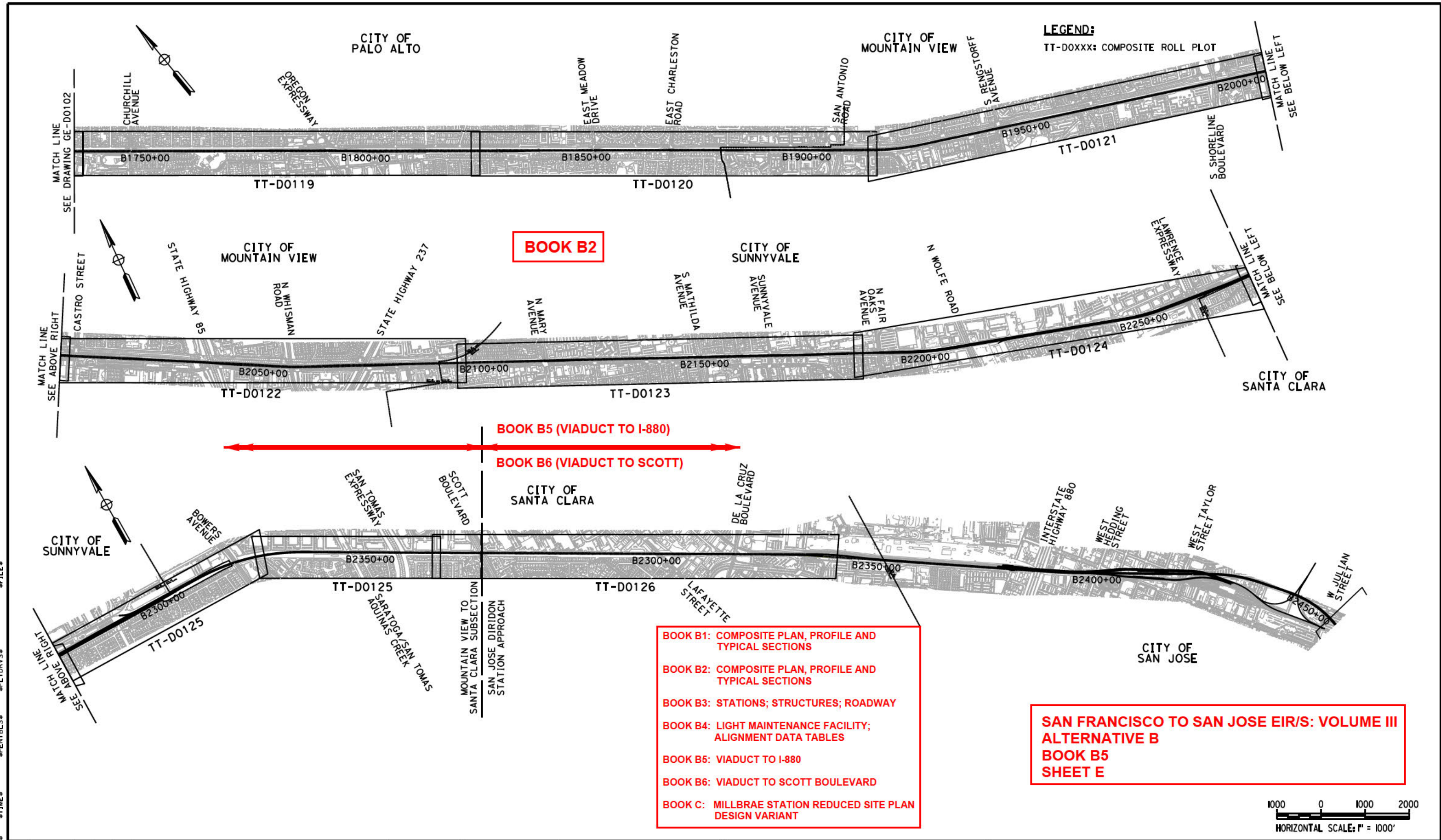
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN FRANCISCO TO SAN JOSE**  
ALTERNATIVE B  
KEY MAP  
COMPOSITE PLAN  
SHEET 2 OF 4

CONTRACT NO.  
HSR15-34  
DRAWING NO.  
GE-D2102  
SCALE  
AS SHOWN  
SHEET NO.



**LEGEND:**  
TT-DOXXX: COMPOSITE ROLL PLOT

**BOOK B2**

**BOOK B5 (VIADUCT TO I-880)**  
**BOOK B6 (VIADUCT TO SCOTT)**

- BOOK B1: COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS
- BOOK B2: COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS
- BOOK B3: STATIONS; STRUCTURES; ROADWAY
- BOOK B4: LIGHT MAINTENANCE FACILITY; ALIGNMENT DATA TABLES
- BOOK B5: VIADUCT TO I-880
- BOOK B6: VIADUCT TO SCOTT BOULEVARD
- BOOK C: MILLBRAE STATION REDUCED SITE PLAN DESIGN VARIANT

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET E**



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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
ALTERNATIVE B  
KEY MAP  
COMPOSITE PLAN  
SHEET 3 OF 4

CONTRACT NO.  
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DRAWING NO.  
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SHEET NO.

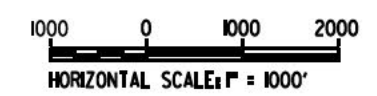
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**ALTERNATIVE B  
 SCOTT BLVD TO W. ALMA  
 (VIADUCT TO I-880)  
 BOOK B5**

**ALTERNATIVE B  
 SCOTT BLVD TO W. ALMA  
 (VIADUCT TO SCOTT BLVD)  
 BOOK B6**

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B5  
 SHEET F**

- BOOK B1: COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS
- BOOK B2: COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS
- BOOK B3: STATIONS; STRUCTURES; ROADWAY
- BOOK B4: LIGHT MAINTENANCE FACILITY; ALIGNMENT DATA TABLES
- BOOK B5: VIADUCT TO I-880
- BOOK B6: VIADUCT TO SCOTT BOULEVARD
- BOOK C: MILLBRAE STATION REDUCED SITE PLAN DESIGN VARIANT



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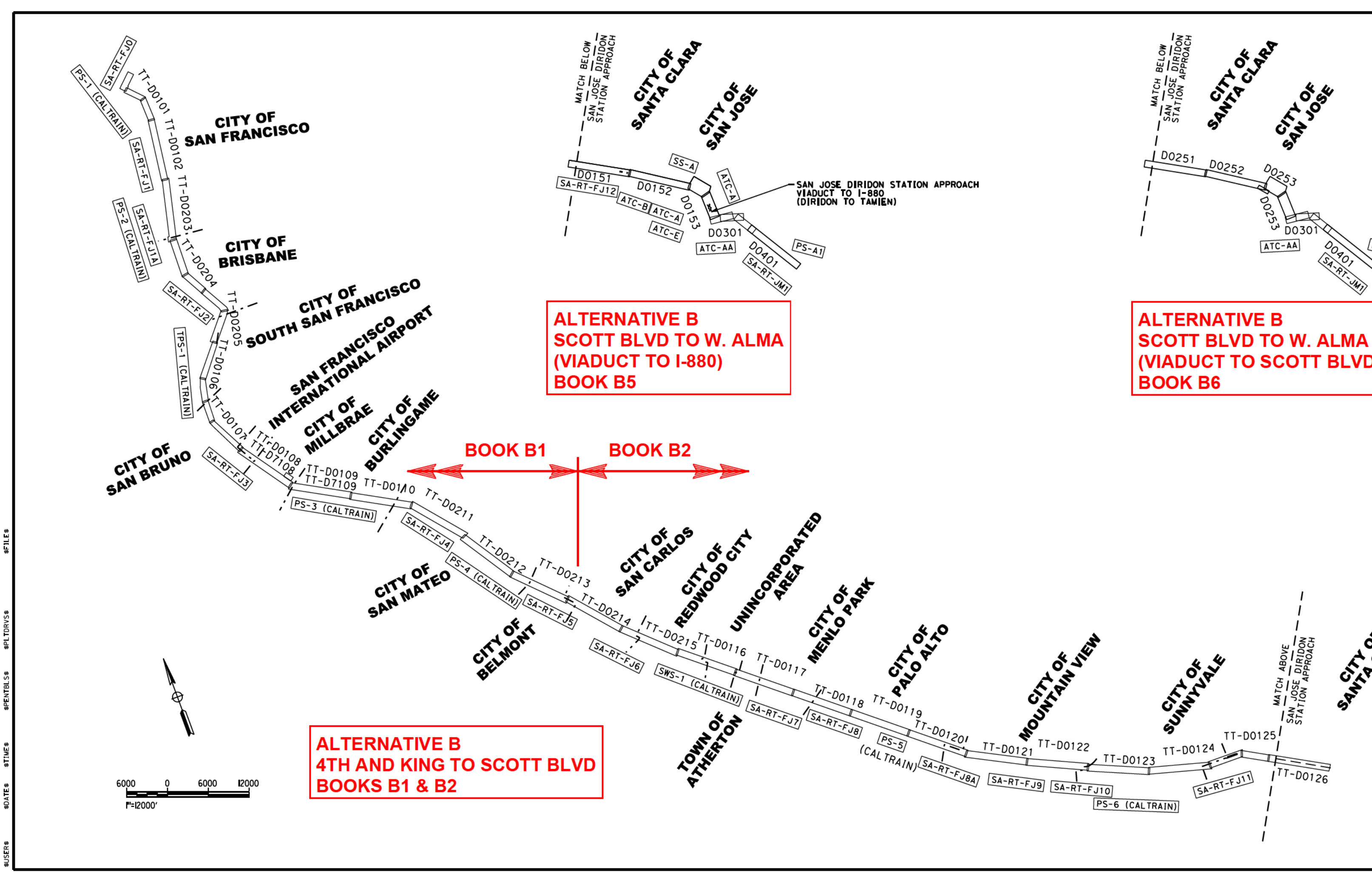


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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 KEY MAP  
 COMPOSITE PLAN  
 SHEET 4 OF 4

CONTRACT NO.	HSR15-34
DRAWING NO.	GE-D2104
SCALE	AS SHOWN
SHEET NO.	



**ALTERNATIVE B**

Station (SB TRK)	Traction Power Facility (TPF)	TPD IF	Dist. to Prev. TPF (m)	Automatic Train Control Sites	Dist. to Prev. ATC-D (m)	Communications Radio Tower	Dist. to Prev. RT (m)	Cross Street
104+63	4th & King Passenger Station					Radio Tower 4th & King Sta FJ0		4th St
133+15	STATION EQUATION STA B133+15.12 = STA B138+00.00							
139+00								
162+58	Mariposa PS-1 (Caltrain)	PCEP-PS-1	3.86			Radio Tower PS-1 (Caltrain)		Mariposa St
167+09	CALTRAIN TUNNEL 1 - NORTH PORTAL							
185+27	CALTRAIN TUNNEL 1 - SOUTH PORTAL							
198+80	CALTRAIN TUNNEL 2 - NORTH PORTAL							
209+69	CALTRAIN TUNNEL 2 - SOUTH PORTAL							
245+49						Stand Alone Radio Tower FJ1 - Alt 1		Jerrold Ave
258+78						Stand Alone Radio Tower FJ1 - Alt 2		Newcomb Ave
264+92	CALTRAIN TUNNEL 3 - NORTH PORTAL							
289+52	CALTRAIN TUNNEL 3 - SOUTH PORTAL							
322+20	CALTRAIN TUNNEL 4 - NORTH PORTAL							
357+57	CALTRAIN TUNNEL 4 - SOUTH PORTAL							
358+24	Beginning of Alternative B - West Brisbane							
358+50						Stand Alone Radio Tower FJ1A		Blanken Ave
366+50	Bayshore PS-2 (Caltrain)					Stand Alone Radio Tower FJ2 - Alt 1		Recycle Road
467+30						Stand Alone Radio Tower FJ2 - Alt 2		Bayshore Boulevard
476+65						Stand Alone Radio Tower FJ2 - Alt 2		Bayshore Boulevard
539+86	STATION EQUATION STA B539+85.68 = STA B545+00.00							
542+50	End of Alternative B - West Brisbane. Conform with Alternative A.							
585+00	South San Francisco TPS-1 (Caltrain)	PCEP-TPS-1	4.09			Radio Tower TPS-1 (Caltrain)		Grand Ave
662+59						Stand Alone Radio Tower FJ3 - Alt 1		San Marco Ave
665+00						Stand Alone Radio Tower FJ3 - Alt 2		Santa Lucia Ave
745+23						Radio Tower PS-3 (Caltrain)		Lirioch Ave
890+00	Broadway PS-3 (Caltrain)	PCEP-PS-3	5.73			Stand Alone Radio Tower FJ4 - Alt 1		Cypress Avenue
1038+91						Stand Alone Radio Tower FJ4 - Alt 2		2nd Avenue
1046+13								

**ALTERNATIVE B (CONTINUED)**

Station (SB TRK)	Traction Power Facility (TPF)	TPD IF	Dist. to Prev. TPF (m)	Automatic Train Control Sites	Dist. to Prev. ATC-D (m)	Communications Radio Tower	Dist. to Prev. RT (m)	Cross Street
1071+00	Beginning of Alternative B - Short Middle 4-Track							
1179+32	Hilldale PS-4 (Caltrain)					Radio Tower PS-4 (Caltrain)		E. Hilldale Boulevard
1257+62						Stand Alone Radio Tower FJ2 - Alt 2		Middle Road
1269+19						Stand Alone Radio Tower FJ5 - Alt 1		Ralston Avenue
1383+21						Stand Alone Radio Tower FJ5 - Alt 2		W. Hilldale Boulevard
1387+77						Stand Alone Radio Tower FJ5 - Alt 2		Center Street
1419+97	STATION EQUATION STA B1419+97.30 = STA B1425+00.00							
1425+00	End of Alternative B - Short Middle 4-Track. Conform with Alternative A.							
1495+25	Redwood Junction SWS-1 (Caltrain)	PCEP-SWS-1	5.89			Radio Tower SWS-1 (Caltrain)		SR 84
1627+06						Stand Alone Radio Tower FJ7 - Alt 1		Derby Lane
1638+84						Stand Alone Radio Tower FJ7 - Alt 2		Ravenswood Avenue
1725+76						Stand Alone Radio Tower FJ8 - Alt 1		Addison Avenue
1728+64						Stand Alone Radio Tower FJ8 - Alt 2		Embarcadero Road
1801+80	West Meadow PS-5 (Caltrain)	PCEP-PS-5	5.81			Radio Tower PS-5 (Caltrain)		
1861+61						Stand Alone Radio Tower FJ8A - Alt 1		E. Charleston Road
1865+41						Stand Alone Radio Tower FJ8A - Alt 2		Park Boulevard
1991+07						Stand Alone Radio Tower FJ9 - Alt 1		N. Shoreline Boulevard
1998+51						Stand Alone Radio Tower FJ9 - Alt 2		N. Shoreline Boulevard
2091+76						Stand Alone Radio Tower FJ10 - Alt 1		E. Bernardo Avenue
2093+59						Stand Alone Radio Tower FJ10 - Alt 2		E. Bernardo Avenue
2154+69	Sunnyvale PS-6 (Caltrain)	PCEP-PS-6	6.69			Radio Tower PS-6 (Caltrain)		Mathilda Avenue
2288+87						Stand Alone Radio Tower FJ11 - Alt 1		Lawrence Expressway
2290+53						Stand Alone Radio Tower FJ11 - Alt 2		Lawrence Expressway
2375+19	End of San Francisco to San Jose Section (FJ)							
	SCOTT BOULEVARD							

**ALTERNATIVE B (SCOTT BLVD TO W. ALMA) (VIADUCT TO I-880)**

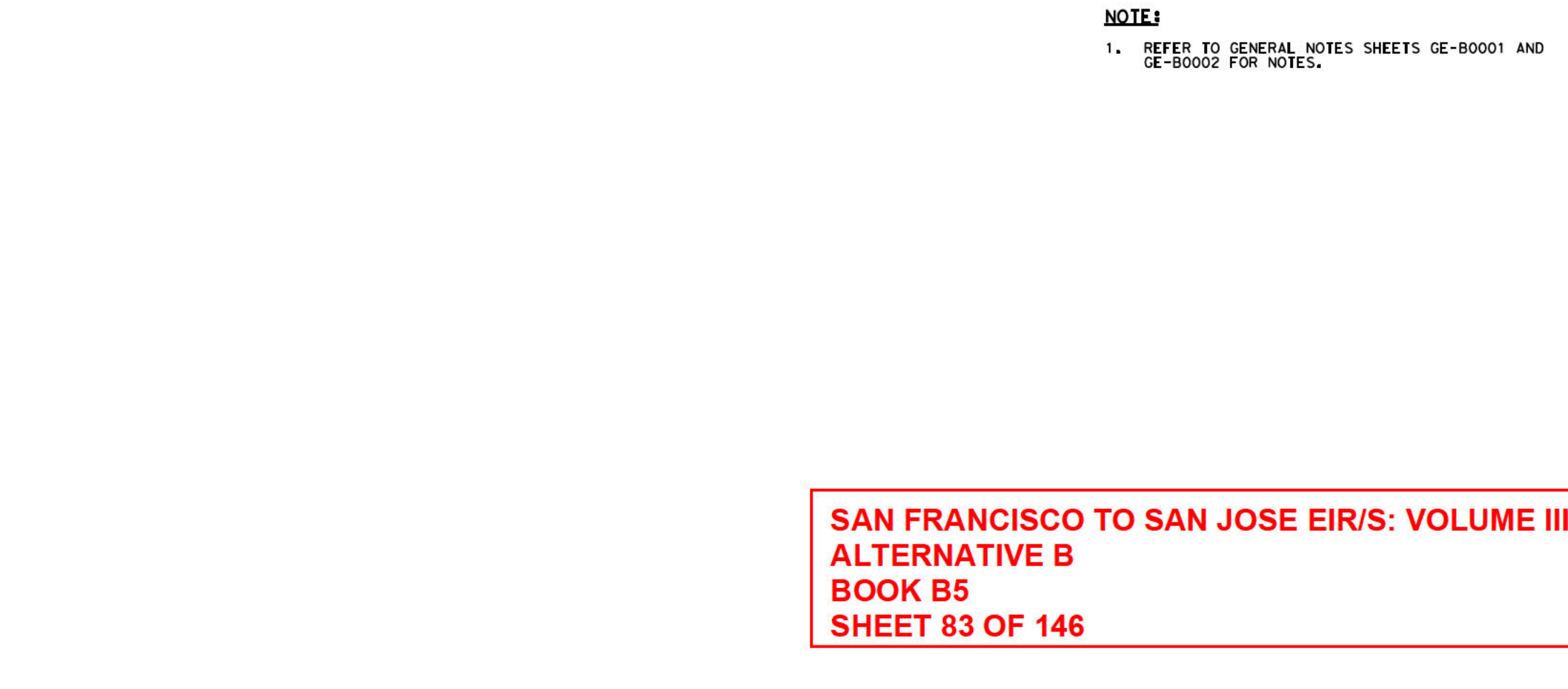
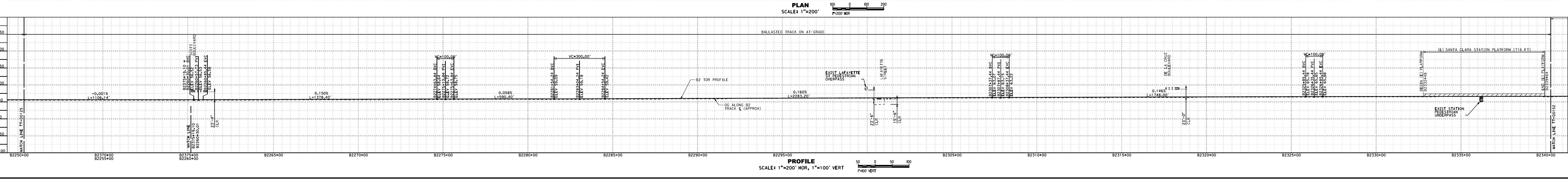
Station (SB TRK)	Traction Power Facility (TPF)	TPD IF	Dist. to Prev. TPF (m)	Automatic Train Control Sites	Dist. to Prev. ATC-D (m)	Communications Radio Tower	Dist. to Prev. RT (m)	Cross Street
2280+00	SCOTT BOULEVARD							
2282+13						Stand Alone Radio Tower FJ12 - Alt 1		
2287+08						Stand Alone Radio Tower FJ12 - Alt 2		
2389+50	Caltrain PCEP TPS-2 - Alt 1					Radio Tower SS-A - Alt 1		
2391+87	Substation A (HSR) - ALT2	B-SS-STO (Alt 2)				Radio Tower SS-A - Alt 2		Stockton Ave.
2393+77						House at Interlocking Site B		
2436+97						House at Interlocking Site A		
2476+07	Diridon Passenger Station					RT Interlocking Site A 6CT-DRDN - Alt 3		
2480+81	End of Scott to Diridon Subsection							
2484+32						House at Interlocking Site E		
52+91	Station Equation FJ ALT. A (NRRW) POE 2481+16.17 (SB) = DRDN-TAMI POB 52+90.53 (SB)							
66+10						House at Interlocking Site B		
77+33						House at Interlocking Site A		
91+34						House at Interlocking Site AA		
150+00	End of Diridon to Tamien Subsection							

**ALTERNATIVE B (SCOTT BLVD TO W. ALMA) (VIADUCT TO SCOTT BLVD)**

Station (SB TRK)	Traction Power Facility (TPF)	TPD IF	Dist. to Prev. TPF (m)	Automatic Train Control Sites	Dist. to Prev. ATC-D (m)	Communications Radio Tower	Dist. to Prev. RT (m)	Cross Street
2280+00	SCOTT BOULEVARD							
2261+60						House at Interlocking Site A		
2289+59						House at Interlocking Site B		
2389+15						Radio Tower SS-A - Alt 1		
2391+52	Substation A (HSR) - ALT2	B-SS-STO (Alt 2)				Radio Tower SS-A - Alt 2		Stockton Ave.
2463+97						House at Interlocking Site E		
2476+07	Diridon Passenger Station					Radio Tower Interlocking Site E - Alt 1		
2480+81	End of Diridon to Tamien Subsection							
52+91	Station Equation FJ - ALT. B (WIDE) POE 2480+80.58 (SB) = DRDN-TAMI POB 52+90.53 (SB)							
66+10						House at Interlocking Site B		
77+33						House at Interlocking Site A		
91+34						House at Interlocking Site AA		
150+00	End of Diridon to Tamien Subsection							

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET G**

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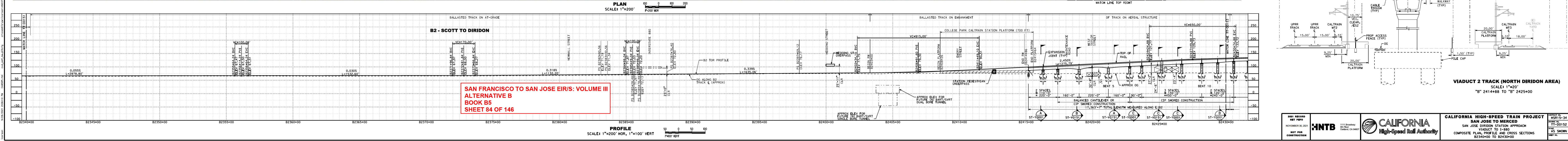
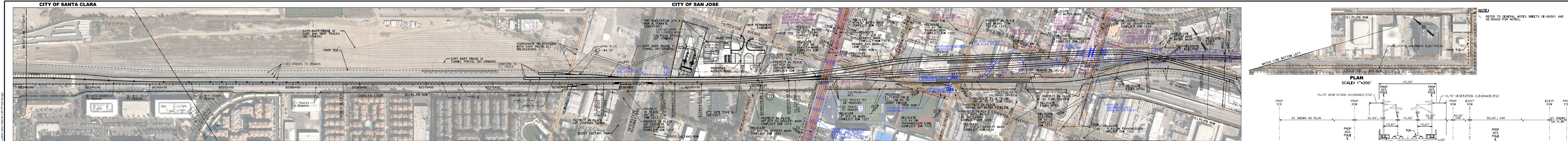


NOTE:  
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

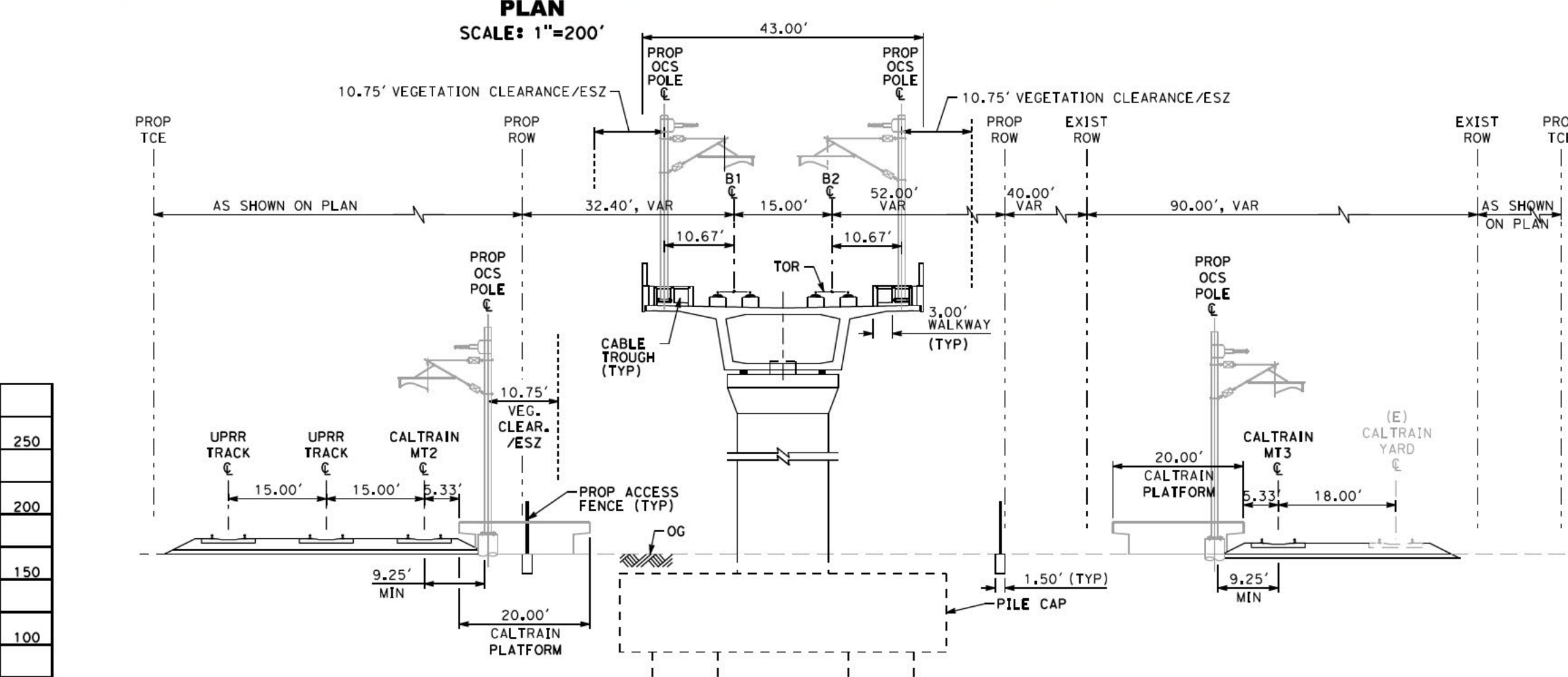
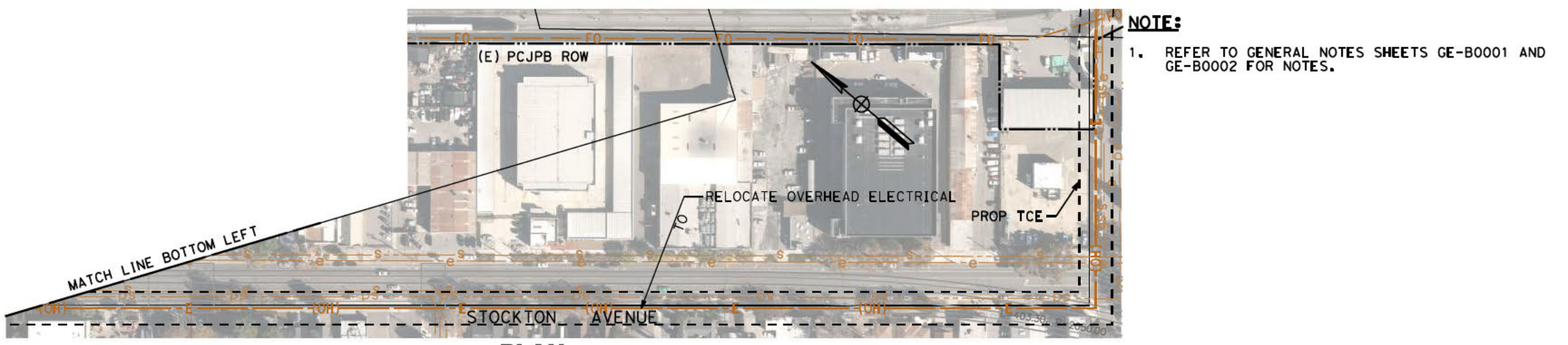
SAN FRANCISCO TO SAN JOSE EIRS: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 83 OF 146

<p>2021 RECORD SET PBD NOVEMBER 30, 2021</p> <p>HNTB</p> <p>NOT FOR CONSTRUCTION</p>	<p>1111 Broadway 9th Floor Oakland, CA 94607</p> <p>CALIFORNIA High-Speed Rail Authority</p>	<p>CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B2250+00 TO B2340+00</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. TT-D0151 SCALE AS SHOWN SHEET NO.</p>
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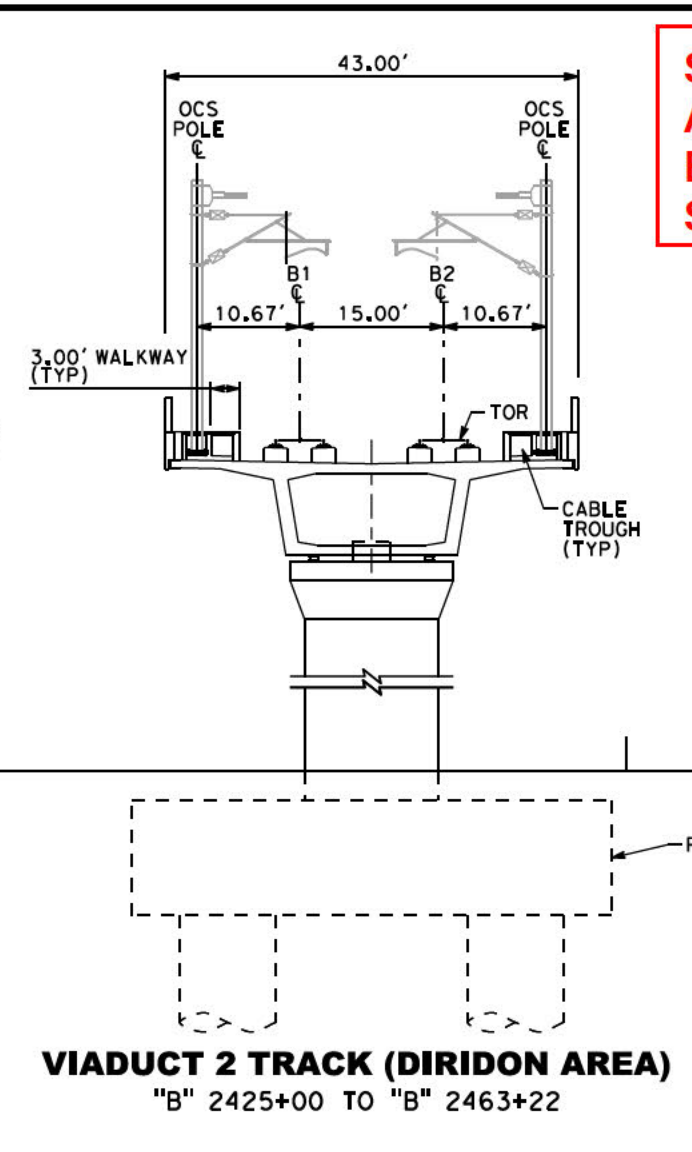
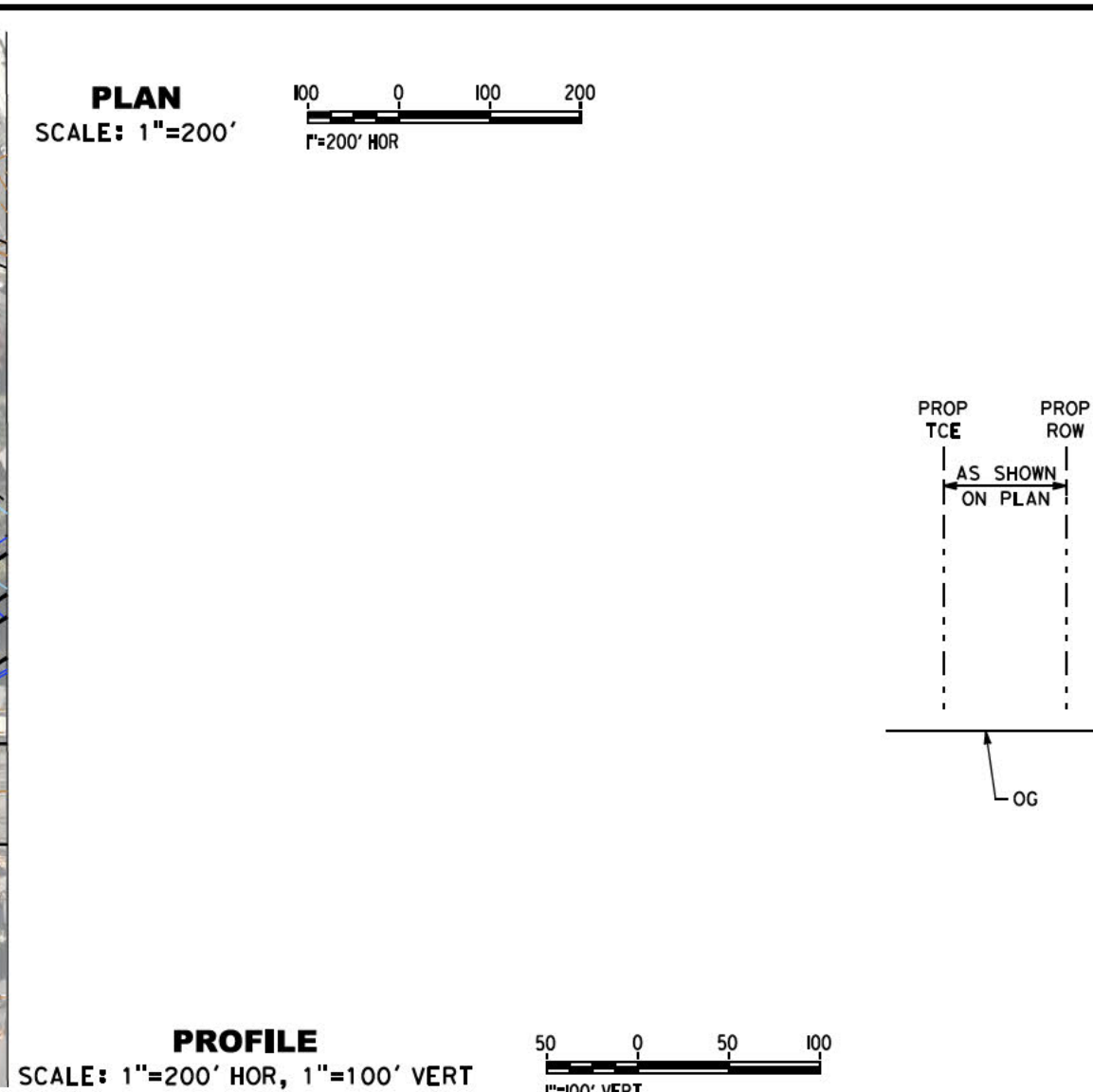
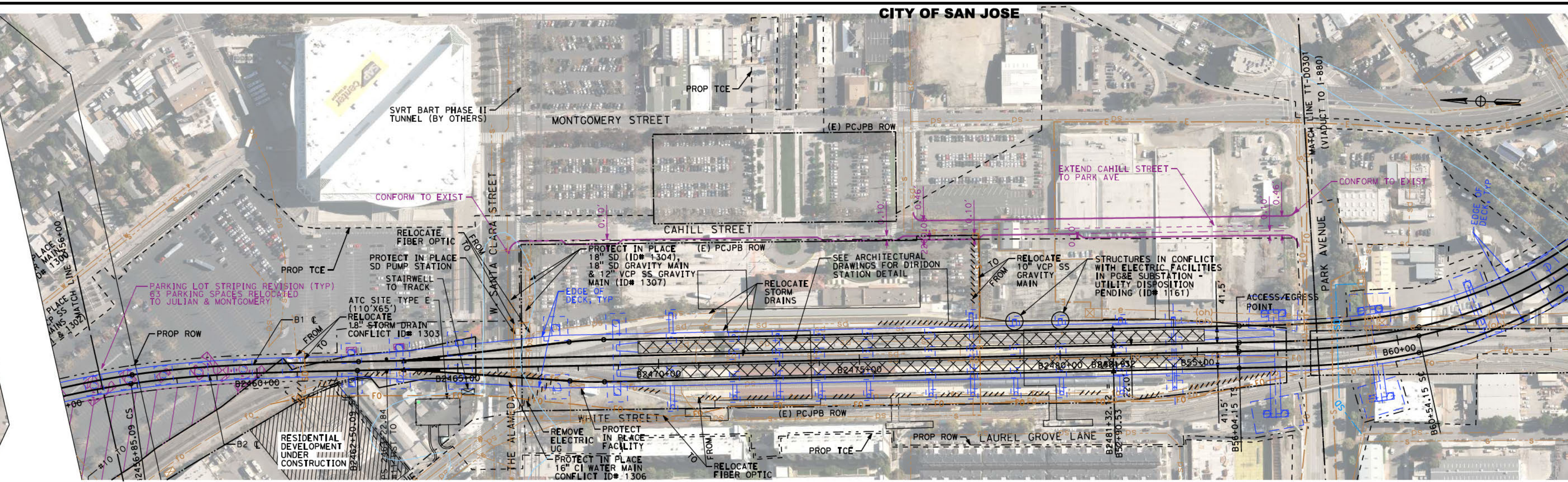
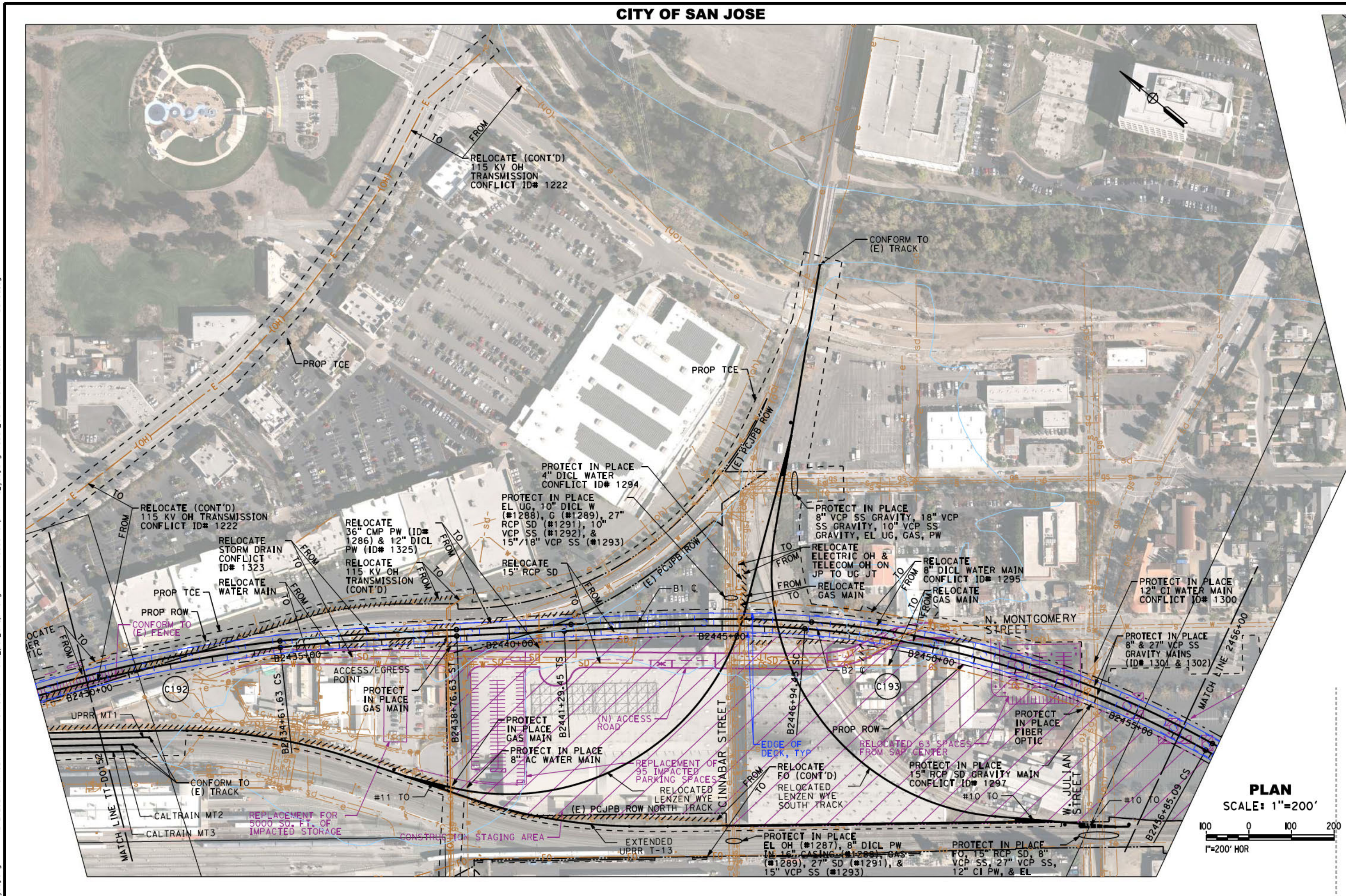


**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 84 OF 146**

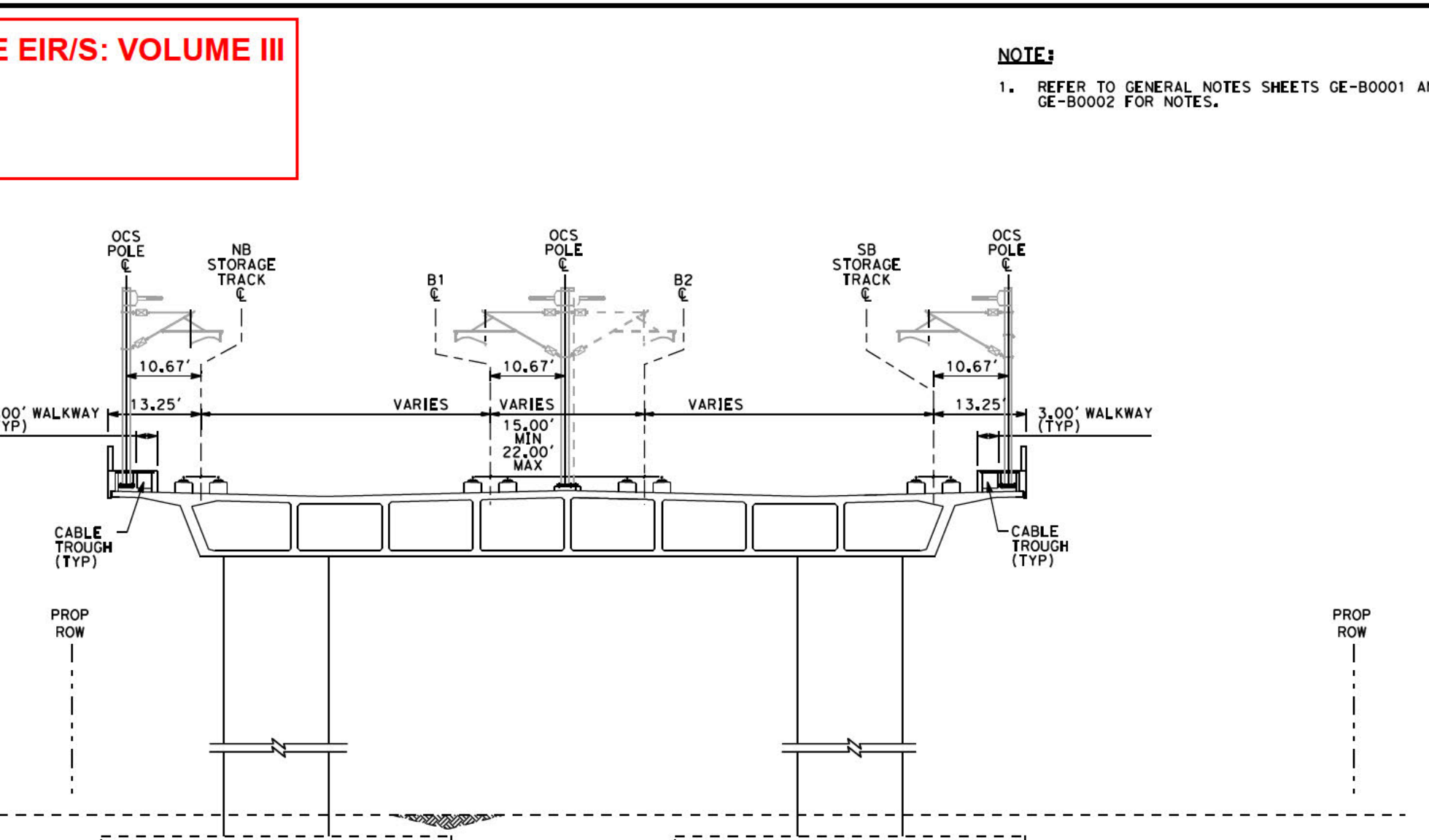


**VIADUCT 2 TRACK (NORTH DIRIDON AREA)**  
 SCALE: 1"=20'  
 "B" 2414+88 TO "B" 2425+00

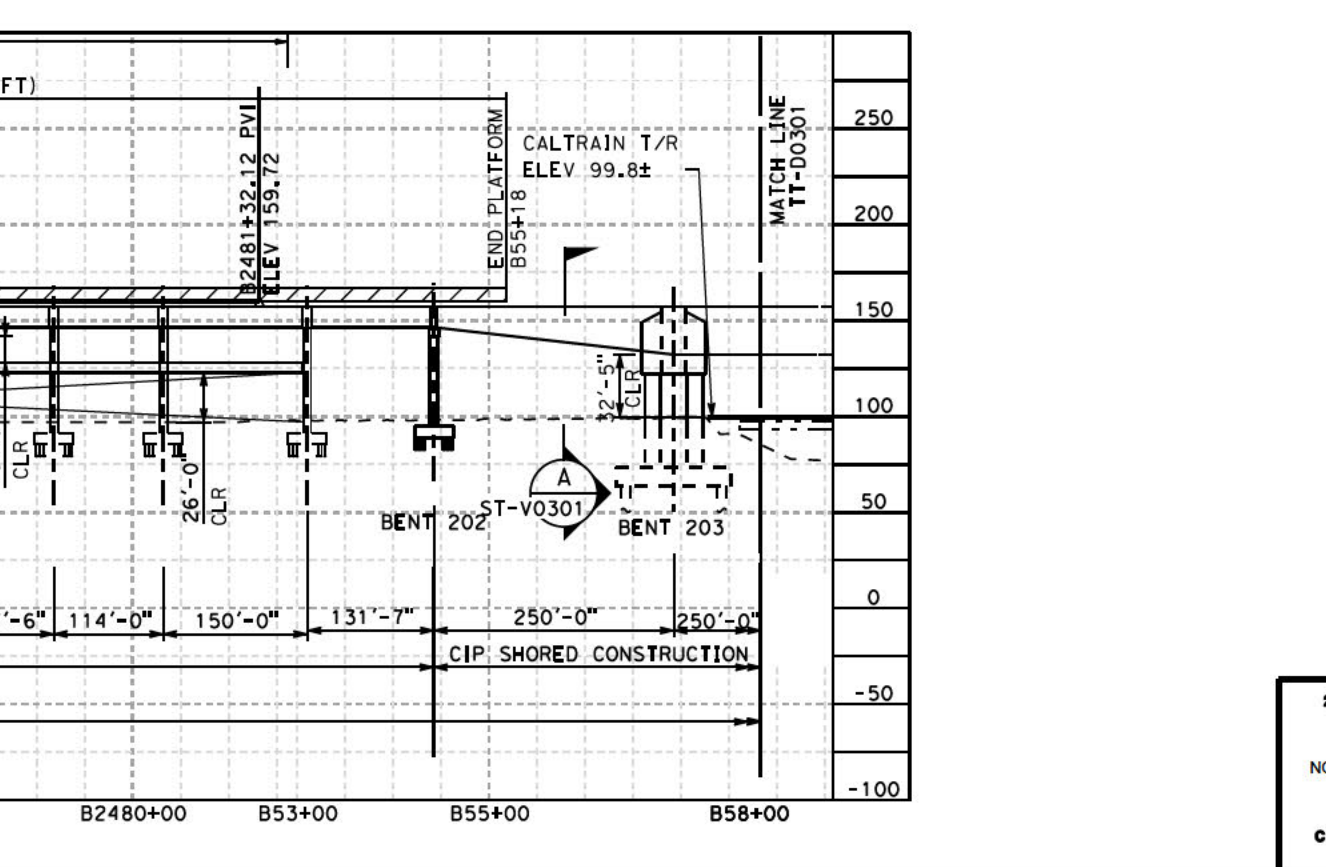
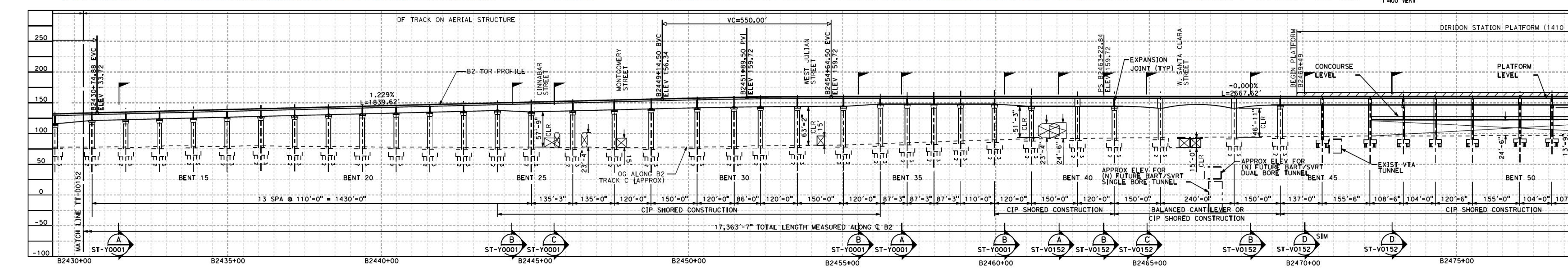
2021 RECORD SET PBD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	<b>HNTB</b> <small>1111 Broadway 9th Floor Oakland, CA 94607</small>	 <b>CALIFORNIA</b> <small>High-Speed Rail Authority</small>	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B2340+00 TO B2430+00	CONTRACT NO. <b>HSR15-34</b> DRAWING NO. <b>TT-D0152</b> SCALE <b>AS SHOWN</b> SHEET NO.
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**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 85 OF 146**



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

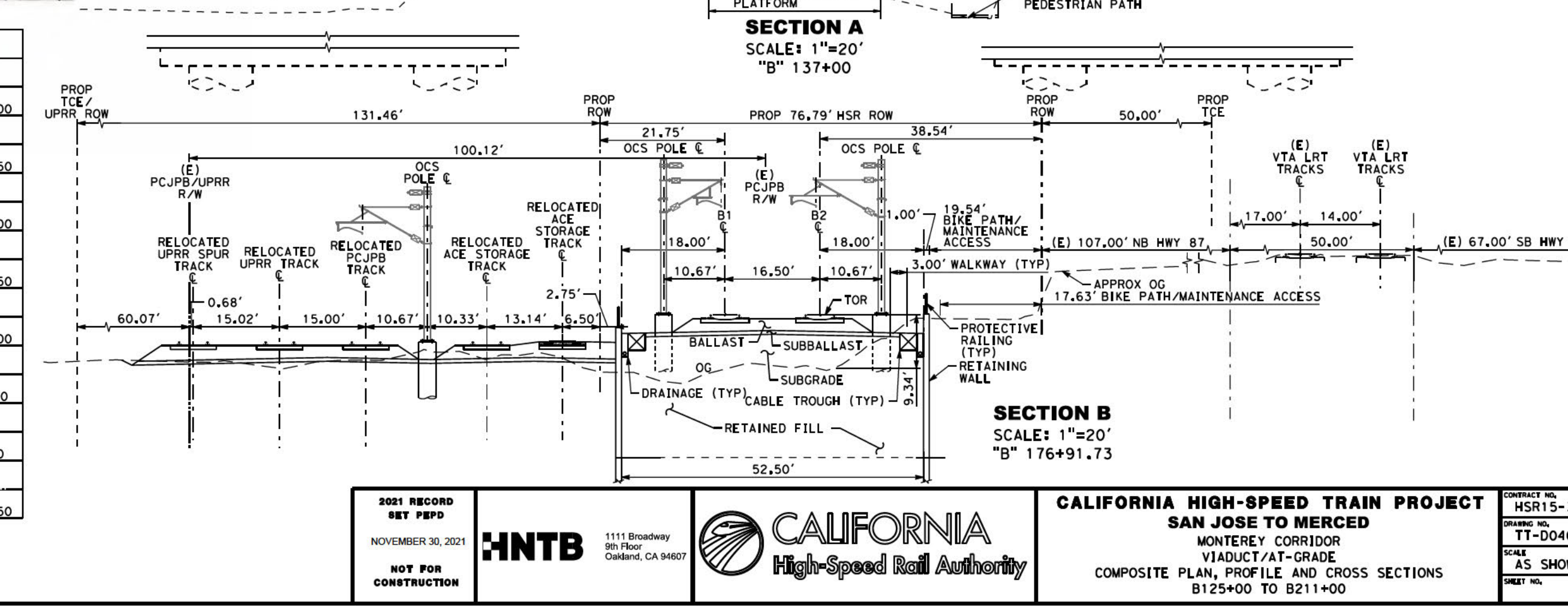
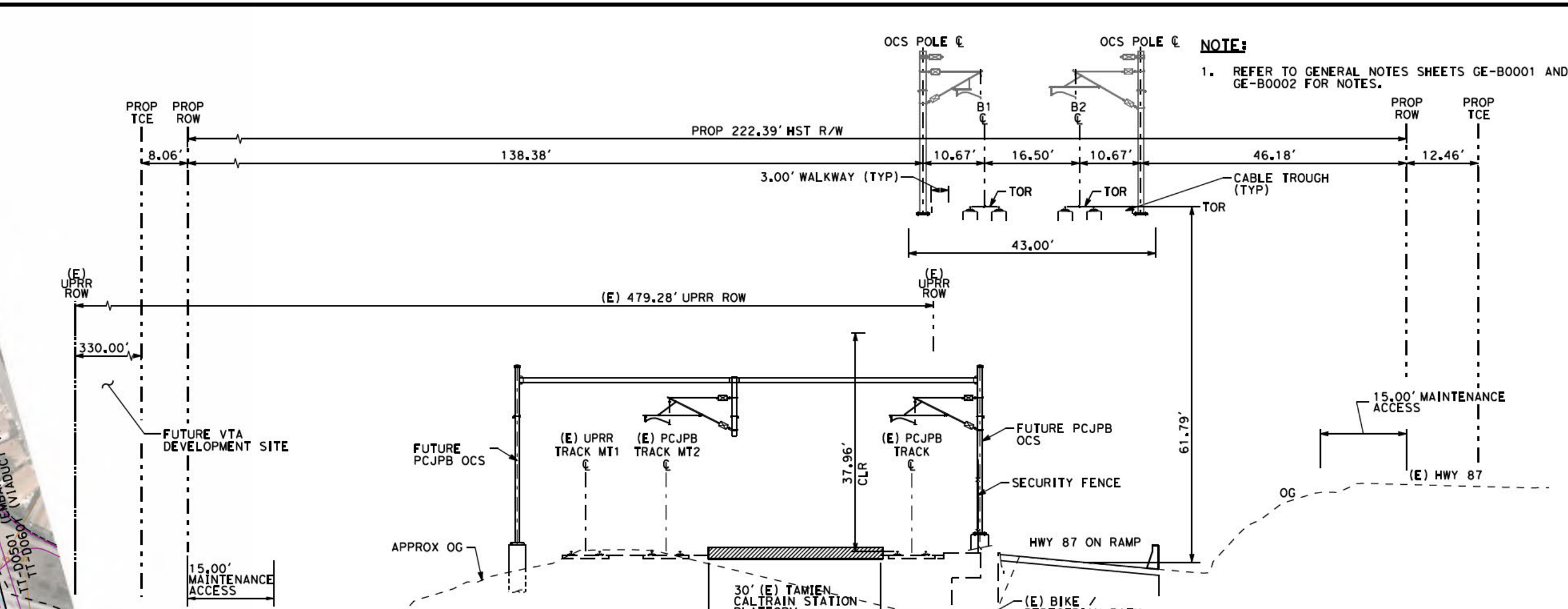
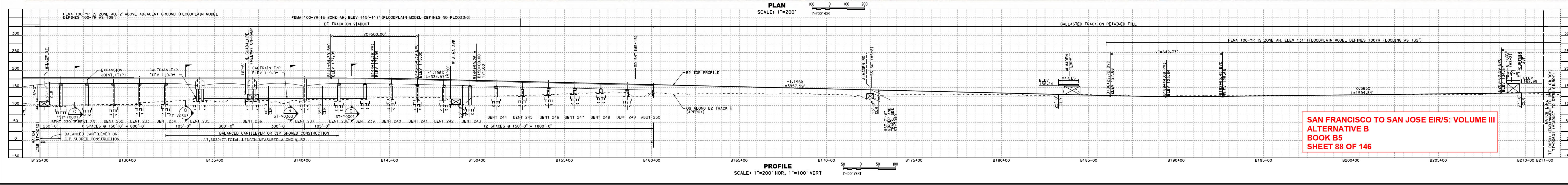
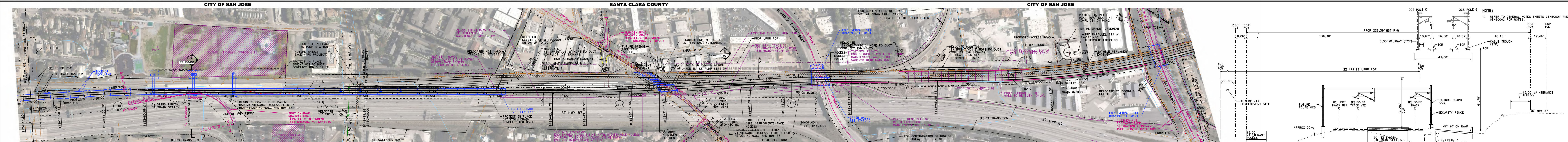


**VIADUCT 4 TRACK (NORTH DIRIDON AREA)**  
 SCALE: 1"=20'  
 "B" 2463+22 TO "B" 2481+32

<b>2021 RECORD SET PBD</b> NOVEMBER 30, 2021 <b>NOT FOR CONSTRUCTION</b>	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA High-Speed Rail Authority</b>	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B2430+00 TO B58+00	CONTRACT NO. HSR15-34 DRAWING NO. TT-D0153 SCALE AS SHOWN SHEET NO.
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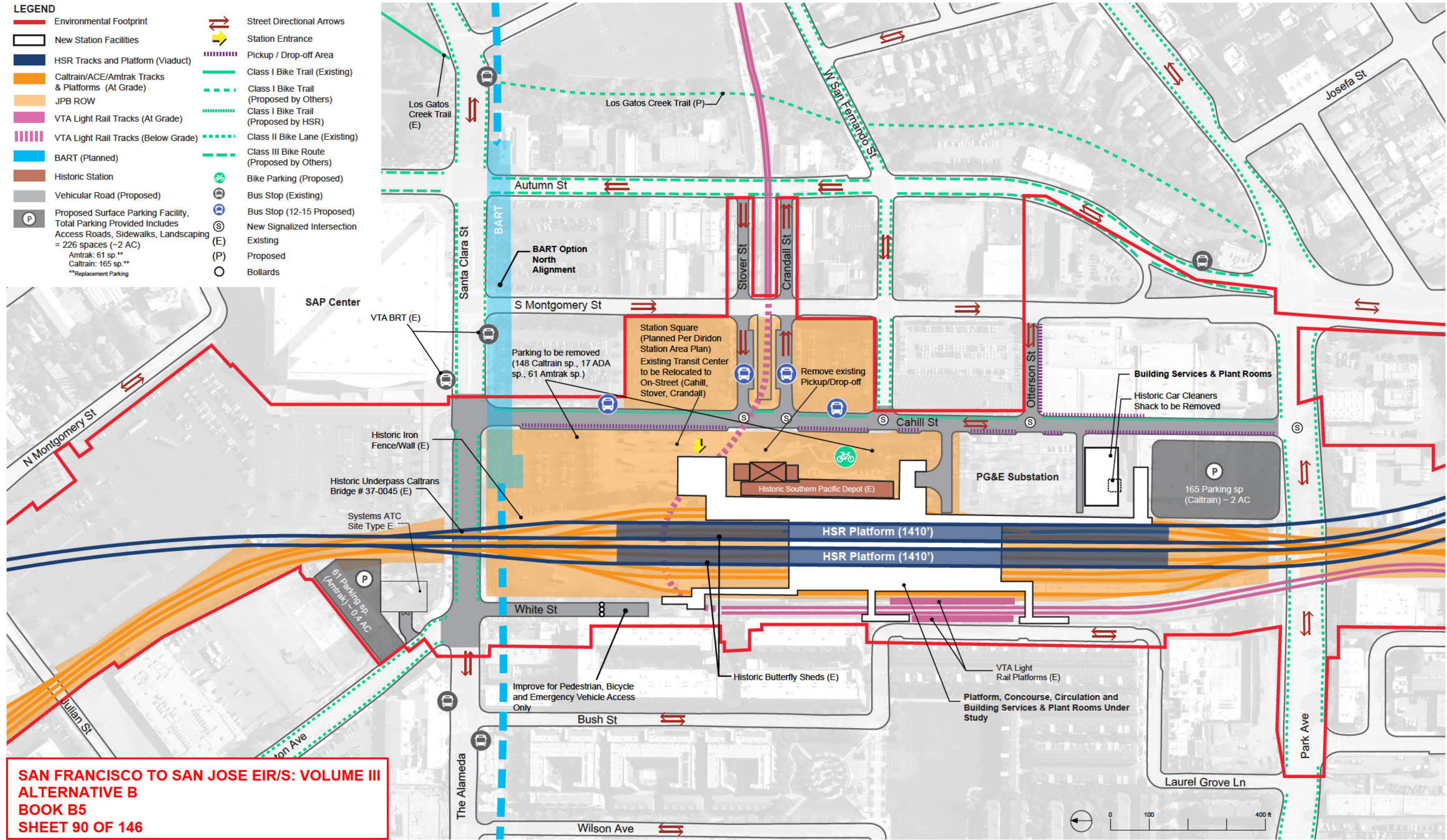


**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 88 OF 146**

2021 RECORD SET PFD NOVEMBER 30, 2021 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> MONTEREY CORRIDOR VIADUCT/AT-GRADE COMPOSITE PLAN, PROFILE AND CROSS SECTIONS B125+00 TO B211+00	CONTRACT NO. <b>HSR15-34</b> DRAWING NO. <b>TT-D0401</b> SCALE <b>AS SHOWN</b> SHEET NO.
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- 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)
  - ⊙ Bus Stop (Existing)
  - ⊙ Bus Stop (12-15 Proposed)
  - S New Signalized Intersection
  - E Existing
  - P Proposed
  - O Bollards



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 90 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
DRAWN BY  
CHECKED BY  
IN CHARGE  
DATE

**2021 RECORD SET PEPD**  
NOVEMBER 30, 2021  
**NOT FOR CONSTRUCTION**

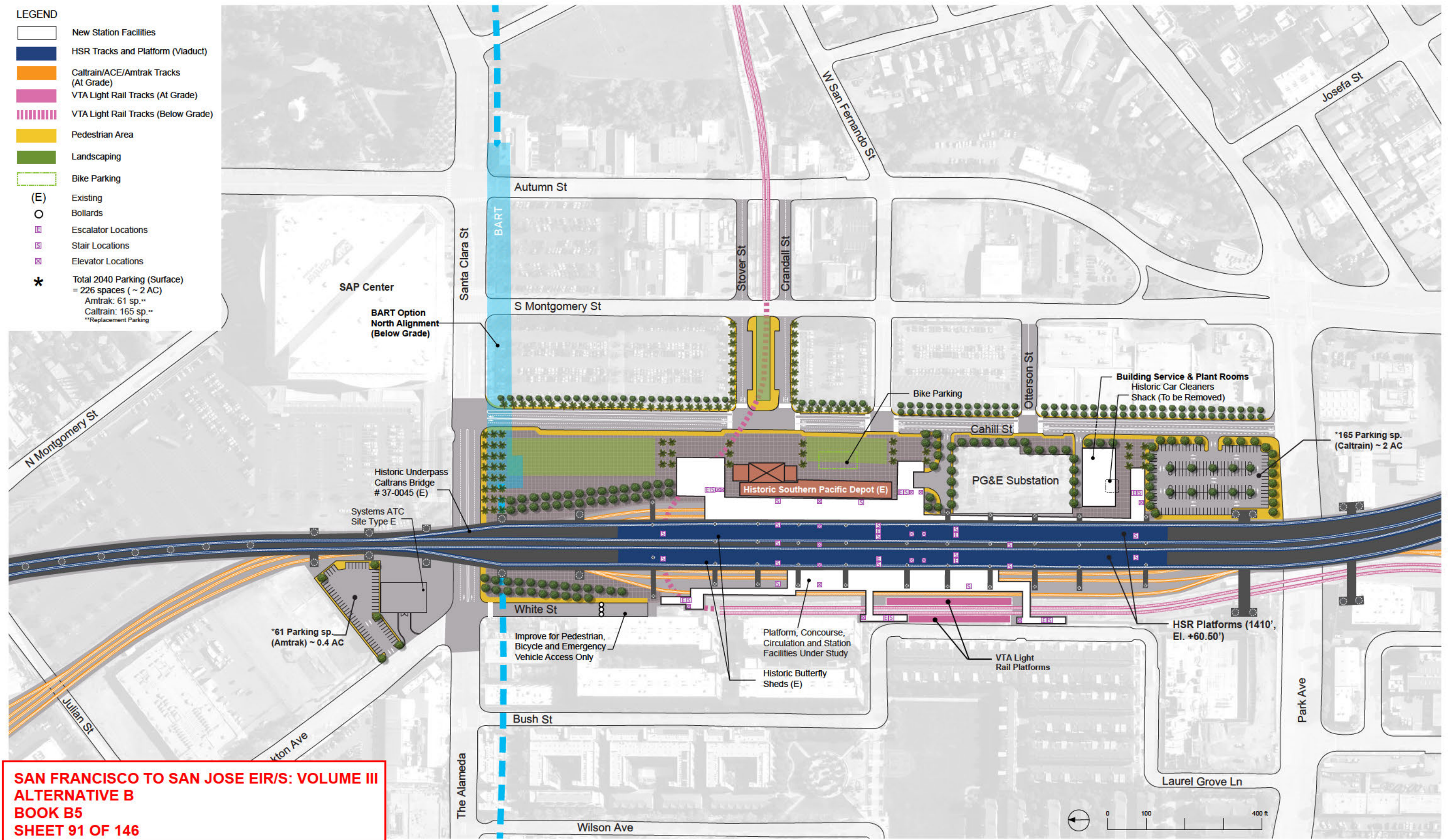
**HNTB**  
1111 Broadway  
9th Floor  
Oakland, CA 94607



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

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

- 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



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 91 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

**2021 RECORD SET PEPP**  
NOVEMBER 30, 2021  
**NOT FOR CONSTRUCTION**

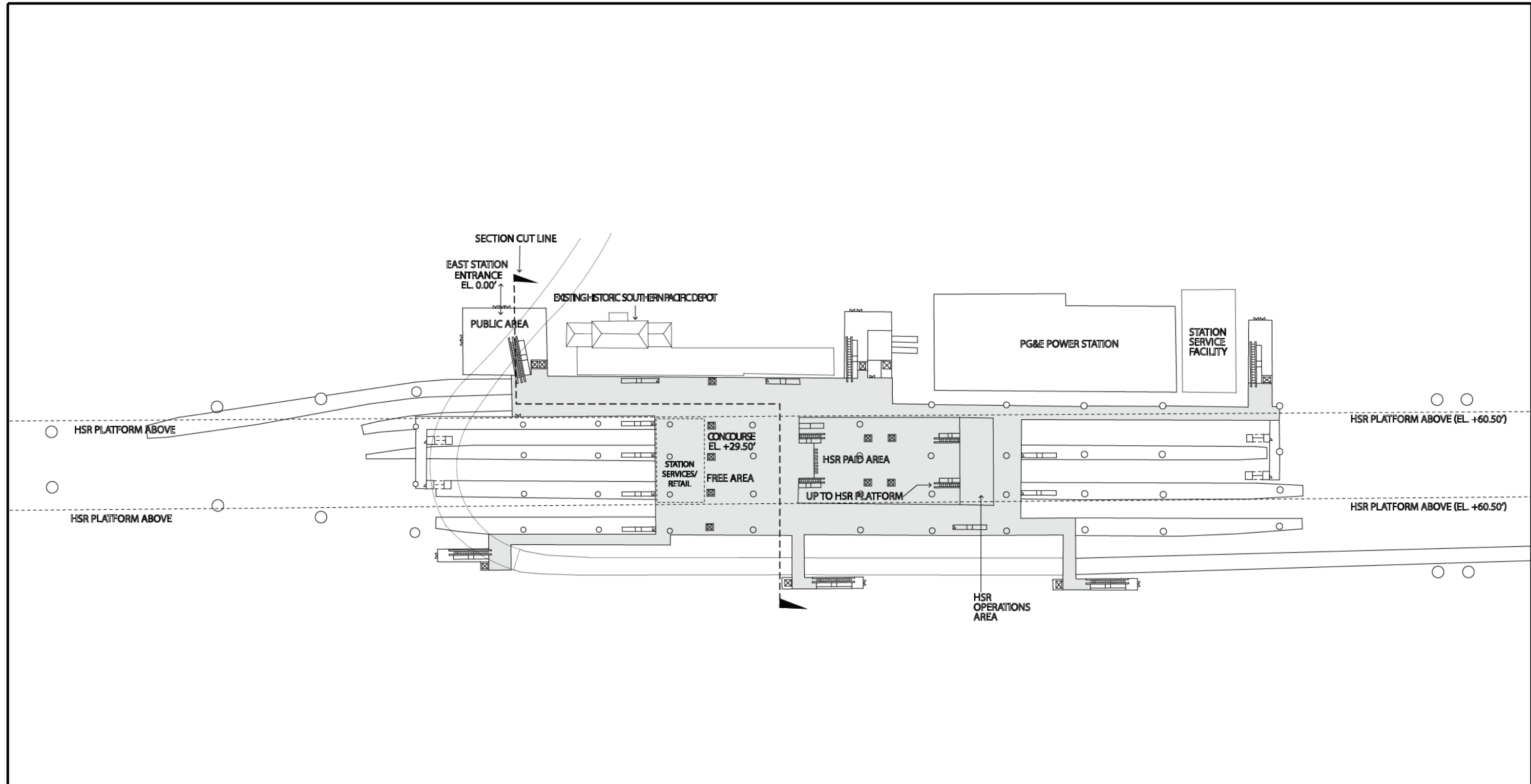
**HNTB**  
1111 Broadway  
9th Floor  
Oakland, CA 94607

**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  
DETAILED SITE PLAN

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





**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 92 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
DRAWN BY  
CHECKED BY  
IN CHARGE  
DATE

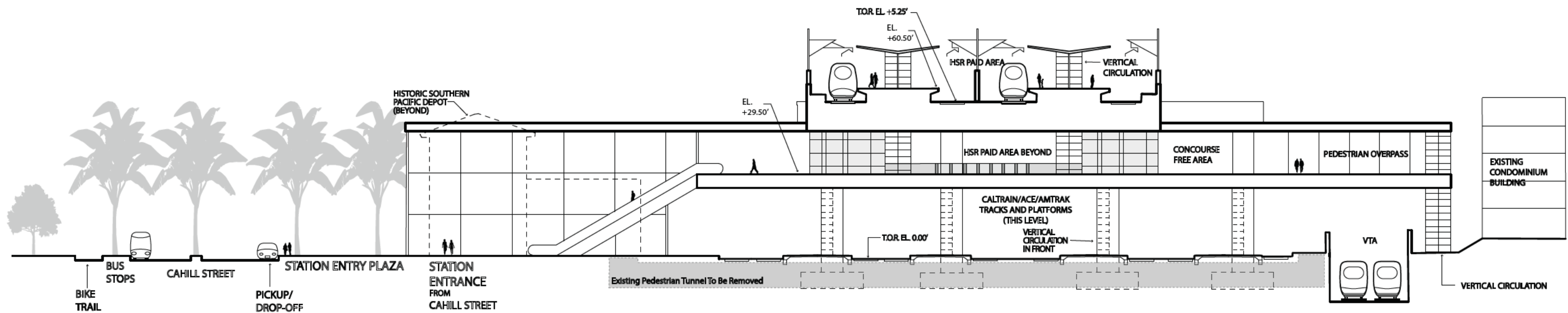
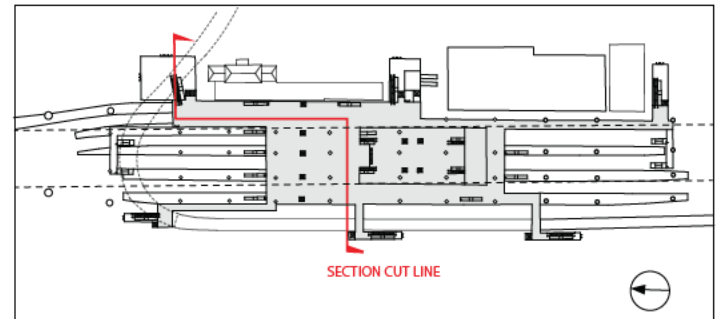
**2021 RECORD  
SET PEPP**  
  
NOVEMBER 30, 2021  
  
**NOT FOR  
CONSTRUCTION**

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

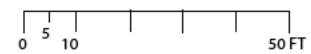


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN JOSE TO MERCED**  
SAN JOSE DIRIDON STATION APPROACH  
VIADUCT TO I-880  
SAN JOSE DIRIDON STATION  
CONCOURSE PLAN

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



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 93 OF 146**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
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CHECKED BY	
IN CHARGE	
DATE	

**2021 RECORD SET PEPP**

NOVEMBER 30, 2021

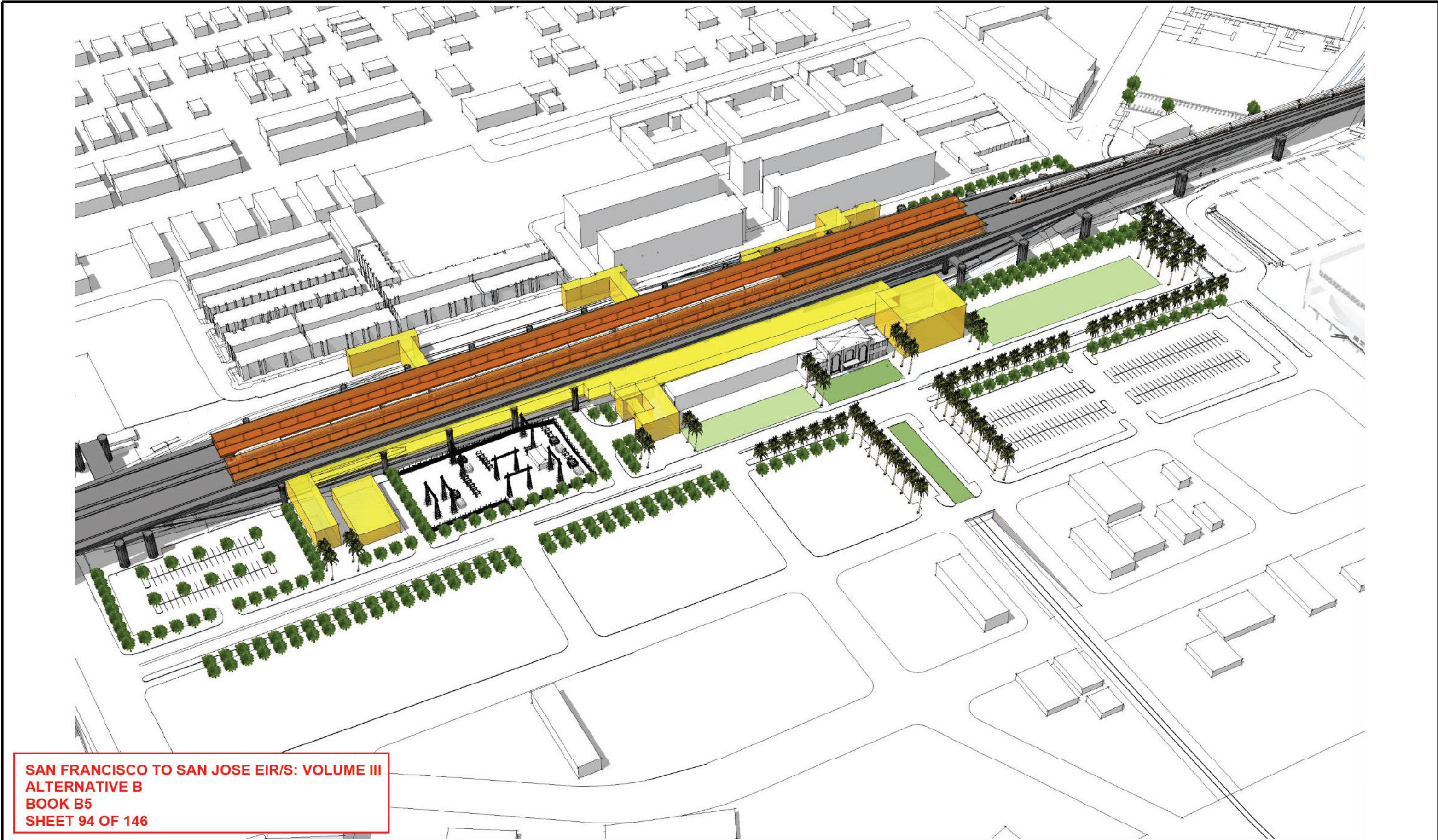
**NOT FOR CONSTRUCTION**

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Oakland, CA 94607

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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  
SECTION

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



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B5  
 SHEET 94 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
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 IN CHARGE  
 DATE

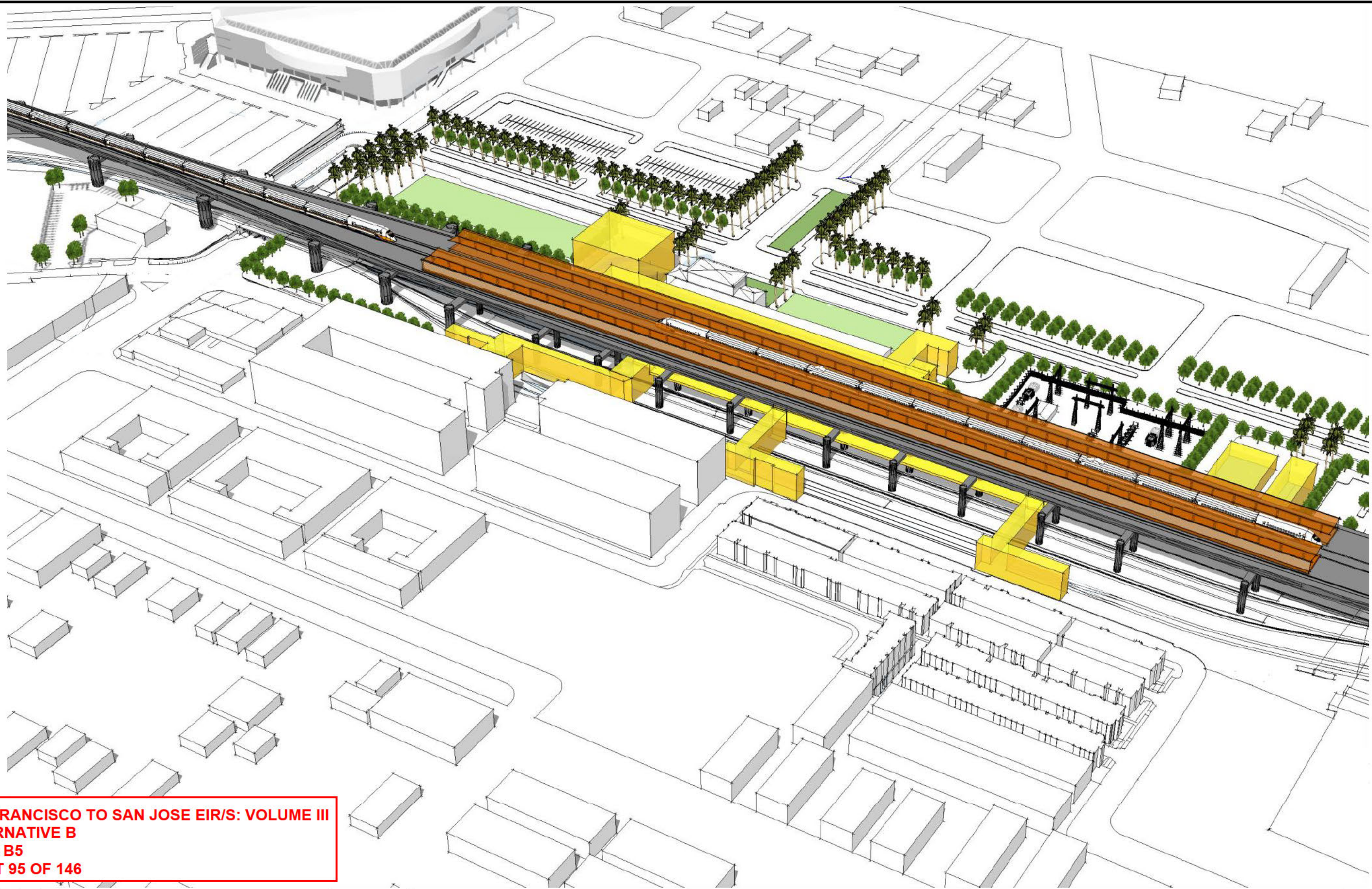
**2021 RECORD  
 SET PEPP**  
 NOVEMBER 30, 2021  
**NOT FOR  
 CONSTRUCTION**

**HNTB** 1111 Broadway  
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**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 FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B5  
 SHEET 95 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 DRAWN BY  
 CHECKED BY  
 IN CHARGE  
 DATE

**2021 RECORD  
 SET PEPP**  
 NOVEMBER 30, 2021  
**NOT FOR  
 CONSTRUCTION**

**HNTB** 1111 Broadway  
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**CALIFORNIA**  
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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  
 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 FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 96 OF 146**

					DESIGNED BY	<b>2021 RECORD SET</b> <b>PEPD</b>  NOVEMBER 30, 2021  <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.
					DRAWN BY							HSR15-34
					CHECKED BY							DRAWING NO.
					IN CHARGE							AR-Y0104
					DATE							SCALE
REV	DATE	BY	CHK	APP	DESCRIPTION					SHEET NO.		
										AS SHOWN		

**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 FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
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					DESIGNED BY	<b>2021 RECORD SET</b> NOVEMBER 30, 2021  <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-Y0105			
					CHECKED BY				SCALE AS SHOWN			
					IN CHARGE				SHEET NO.			
					DATE							
REV	DATE	BY	CHK	APP	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
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>86,096</b>		<b>SF</b>			

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 98 OF 146**

					DESIGNED BY	<b>2021 RECORD SET PEPD</b>  NOVEMBER 30, 2021  <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.
					DRAWN BY							HSR15-34
					CHECKED BY							DRAWING NO.
					IN CHARGE							AR-Y0106
					DATE							SCALE
REV	DATE	BY	CHK	APP	DESCRIPTION				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
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	$(((P15B \times 1.1) + (P15Ax0.1)) \times 25\%) \times 14 \text{ SF}$	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)
	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	

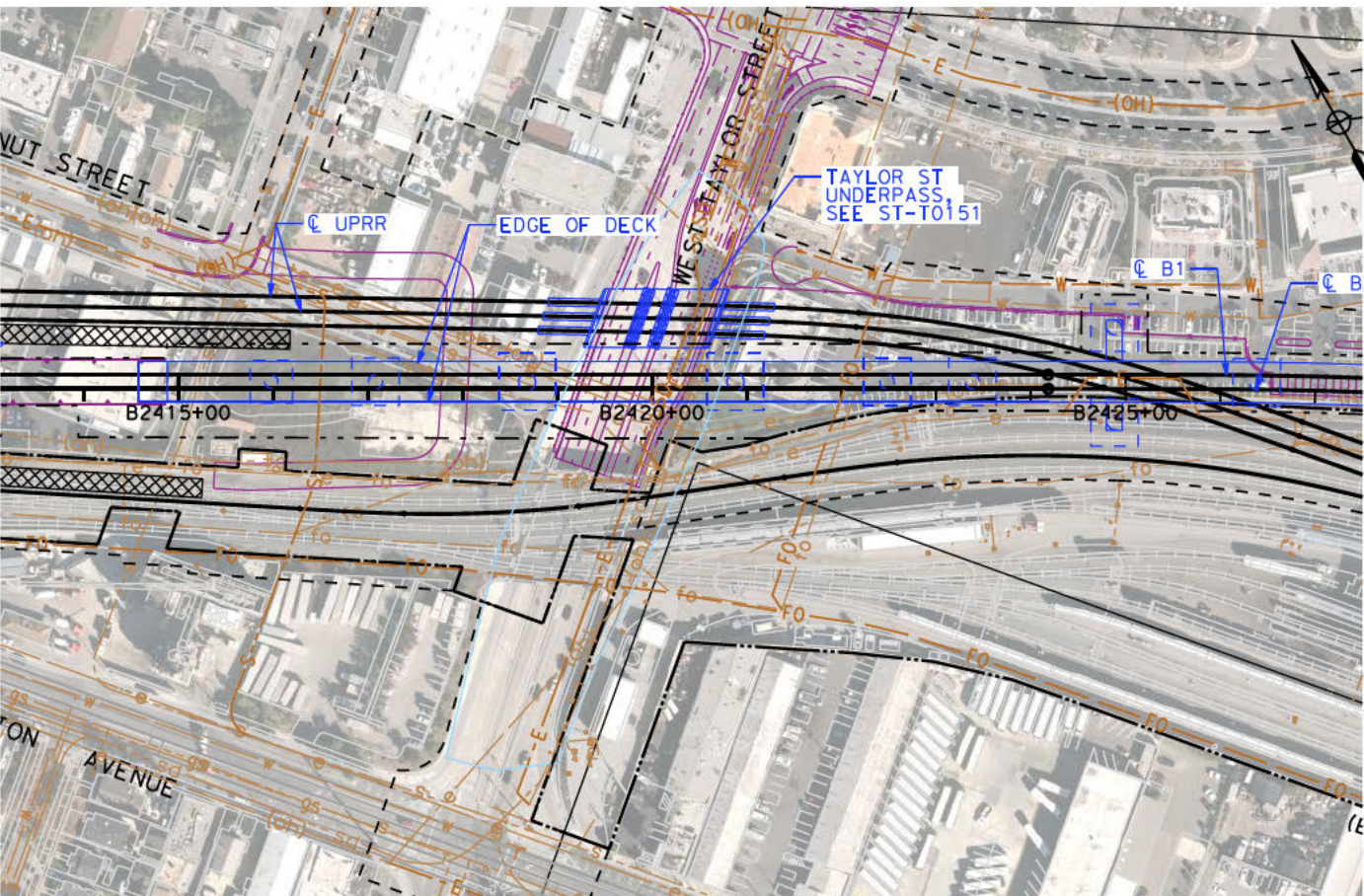
**TOTAL AREA - EAST ENTRANCE: 13,193 SF**

	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

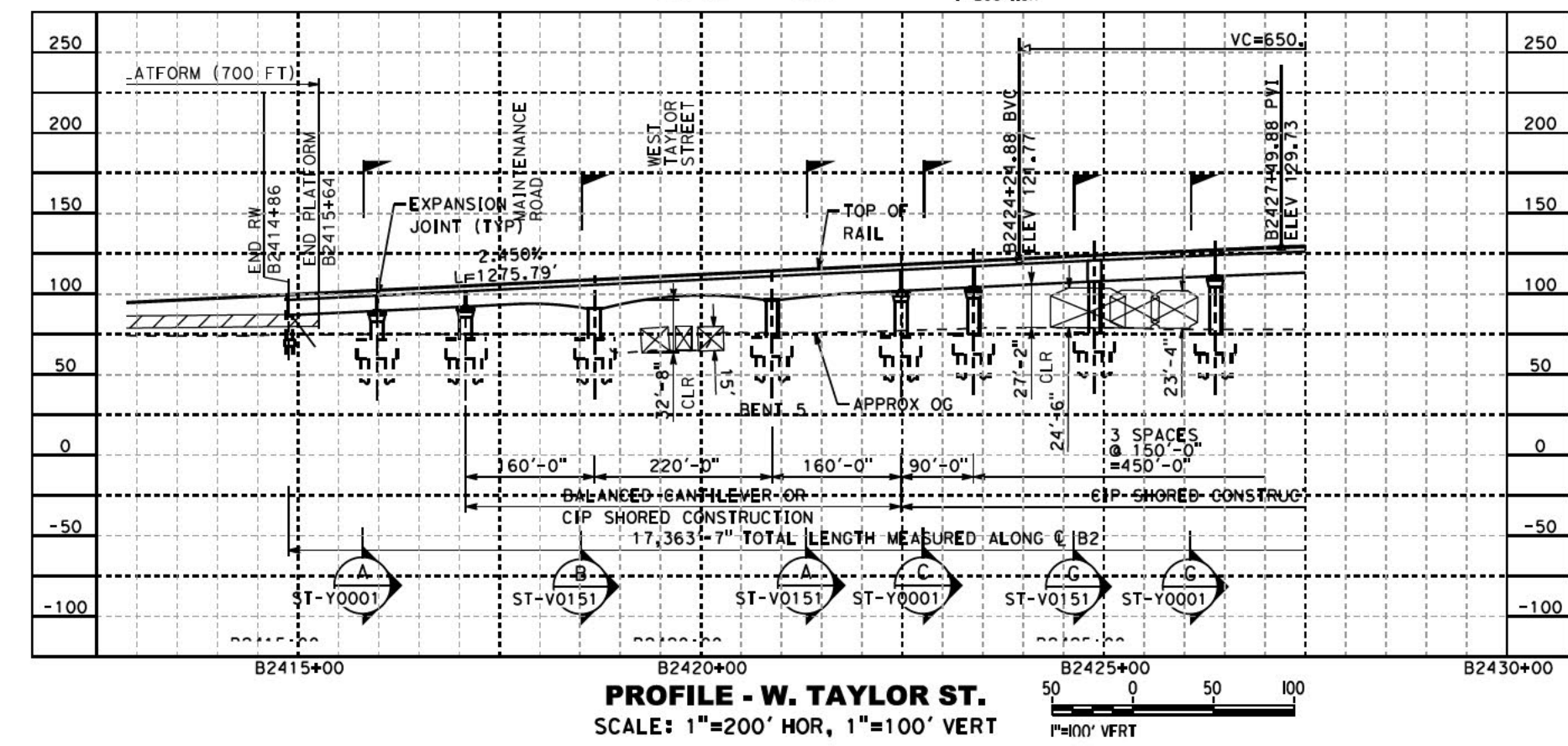
**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 99 OF 146**

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DRAWN BY																								
CHECKED BY																								
IN CHARGE																								
DATE																								
REV	DATE	BY	CHK	APP	DESCRIPTION																			

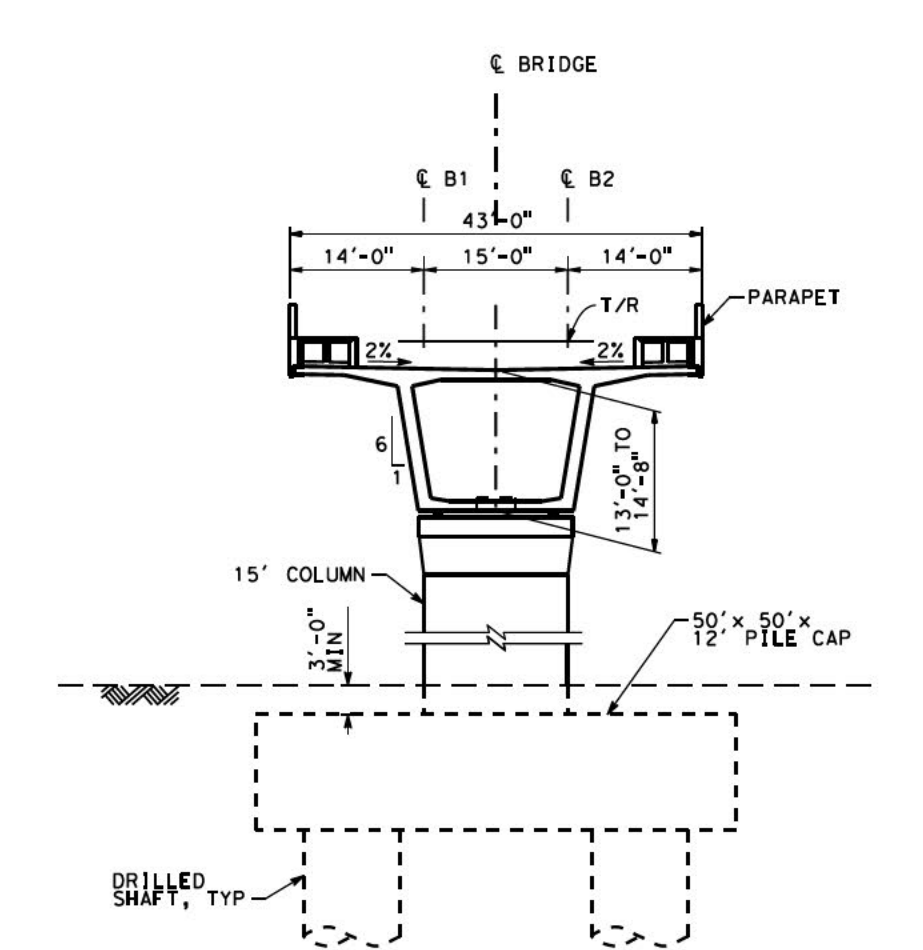




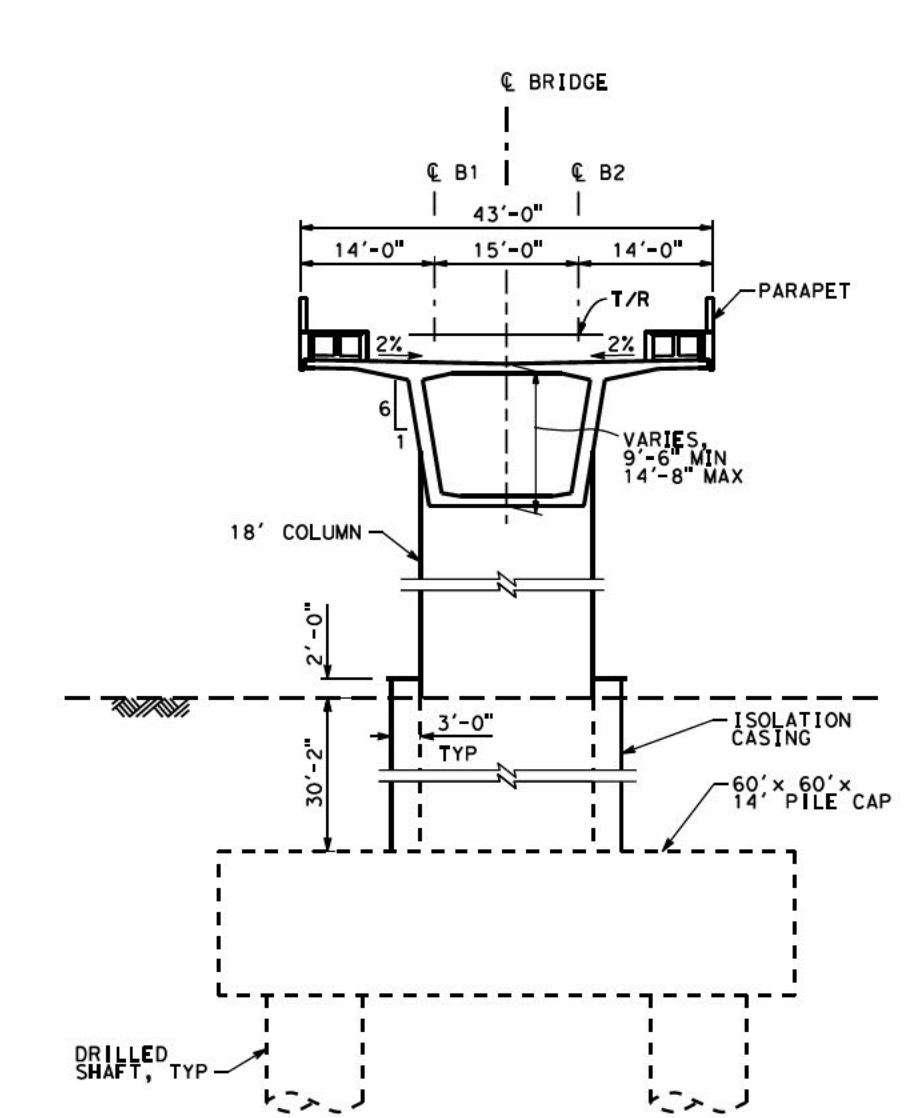
**PLAN - W. TAYLOR ST.**  
SCALE: 1"=200'



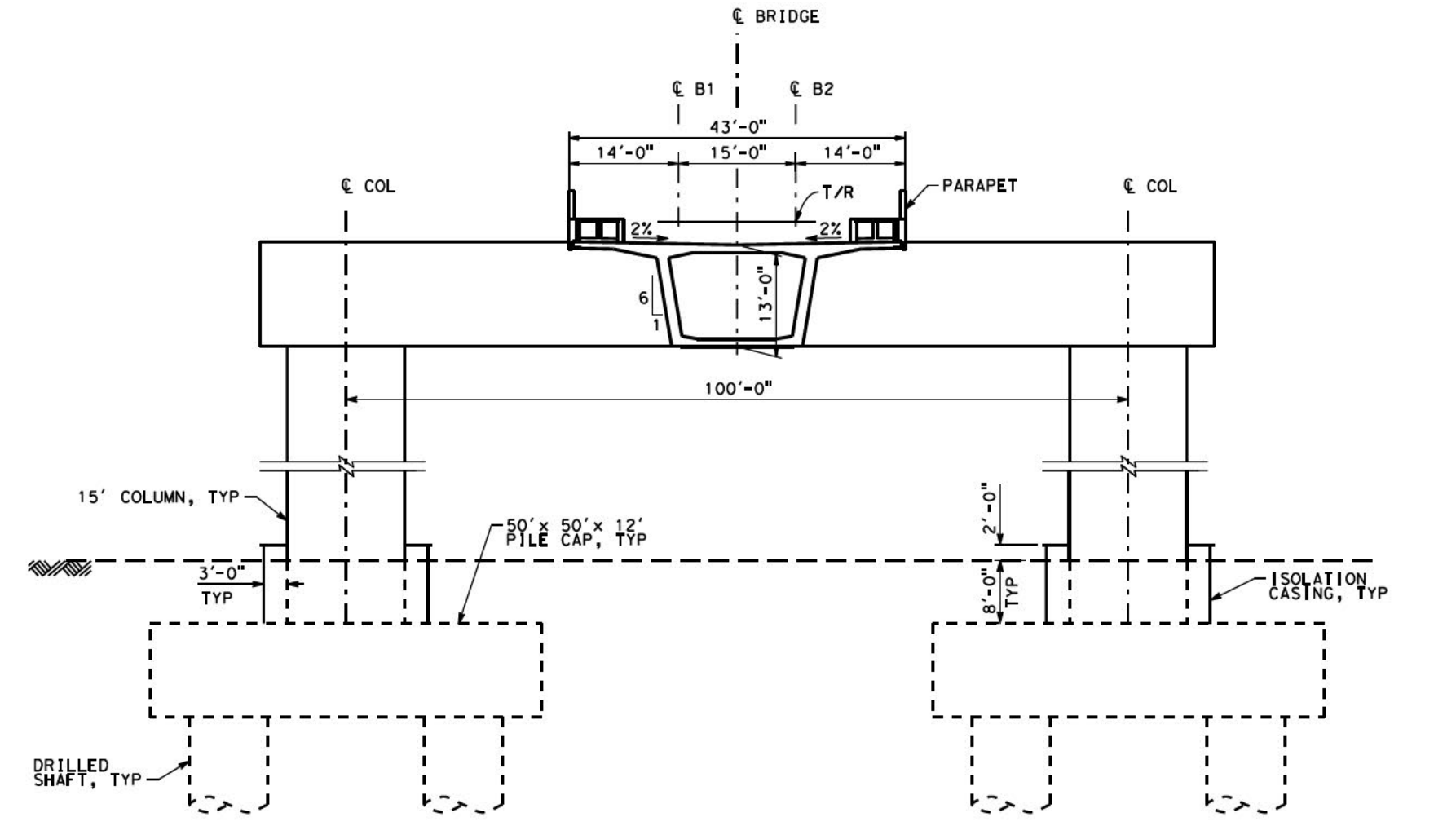
**PROFILE - W. TAYLOR ST.**  
SCALE: 1"=200' HOR, 1"=100' VERT



**SECTION A**  
SCALE 1"=20'-0"



**SECTION B**  
SCALE 1"=20'-0"

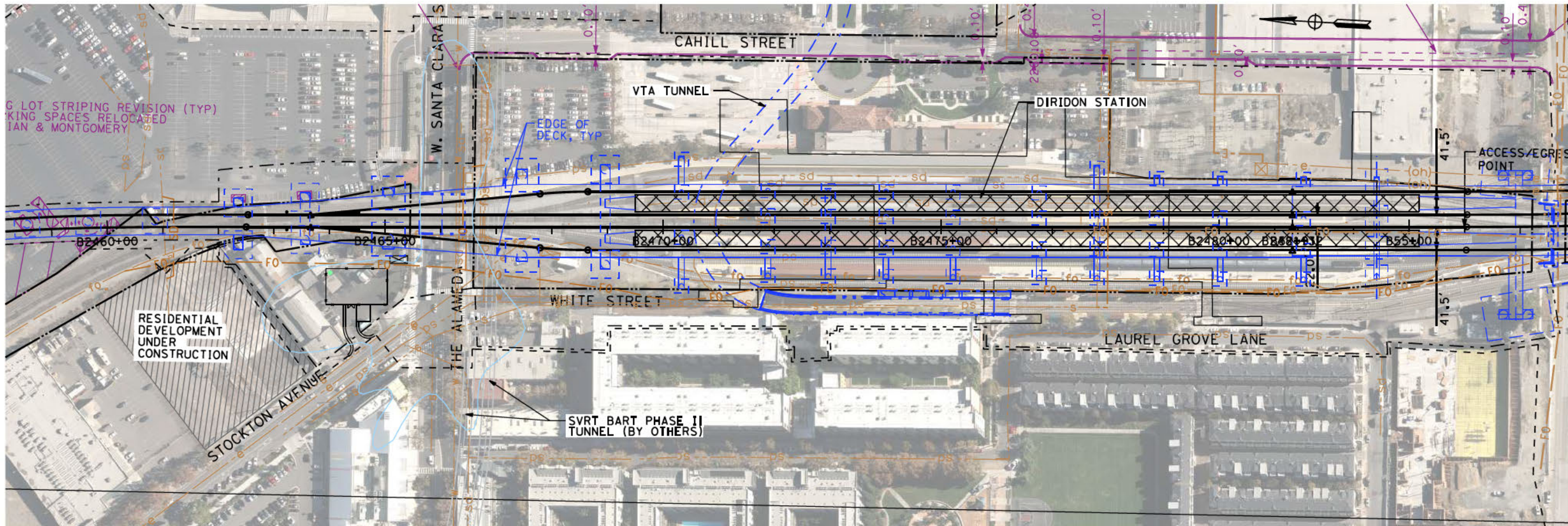


**SECTION C**  
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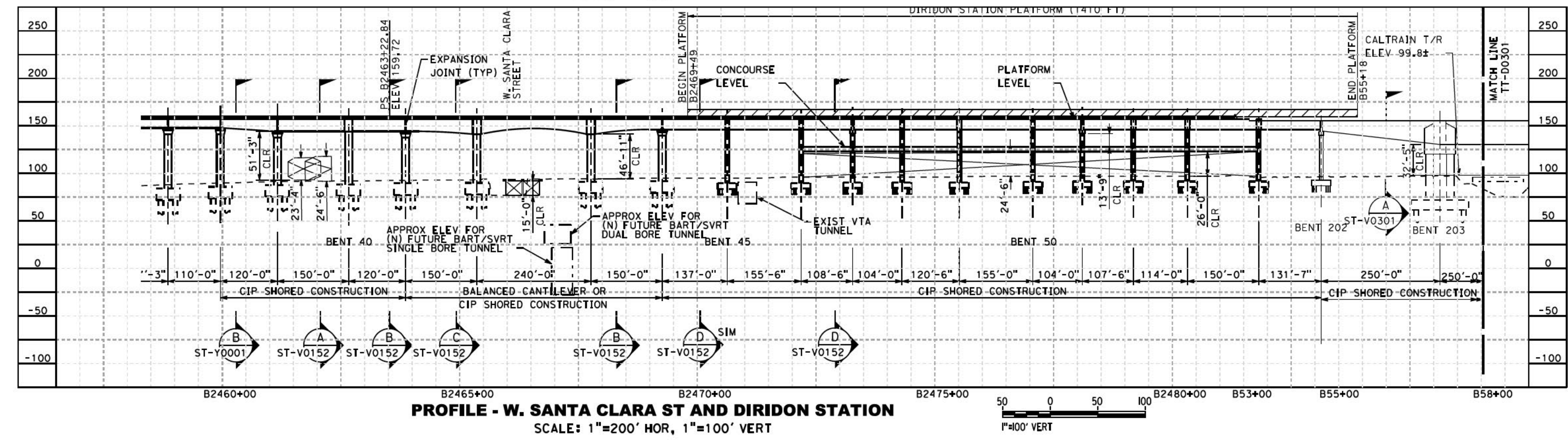
**NOTE:**  
1. REFER TO GENERAL NOTES DRAWING NO. GE-B0101 FOR NOTES.

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 100 OF 146**

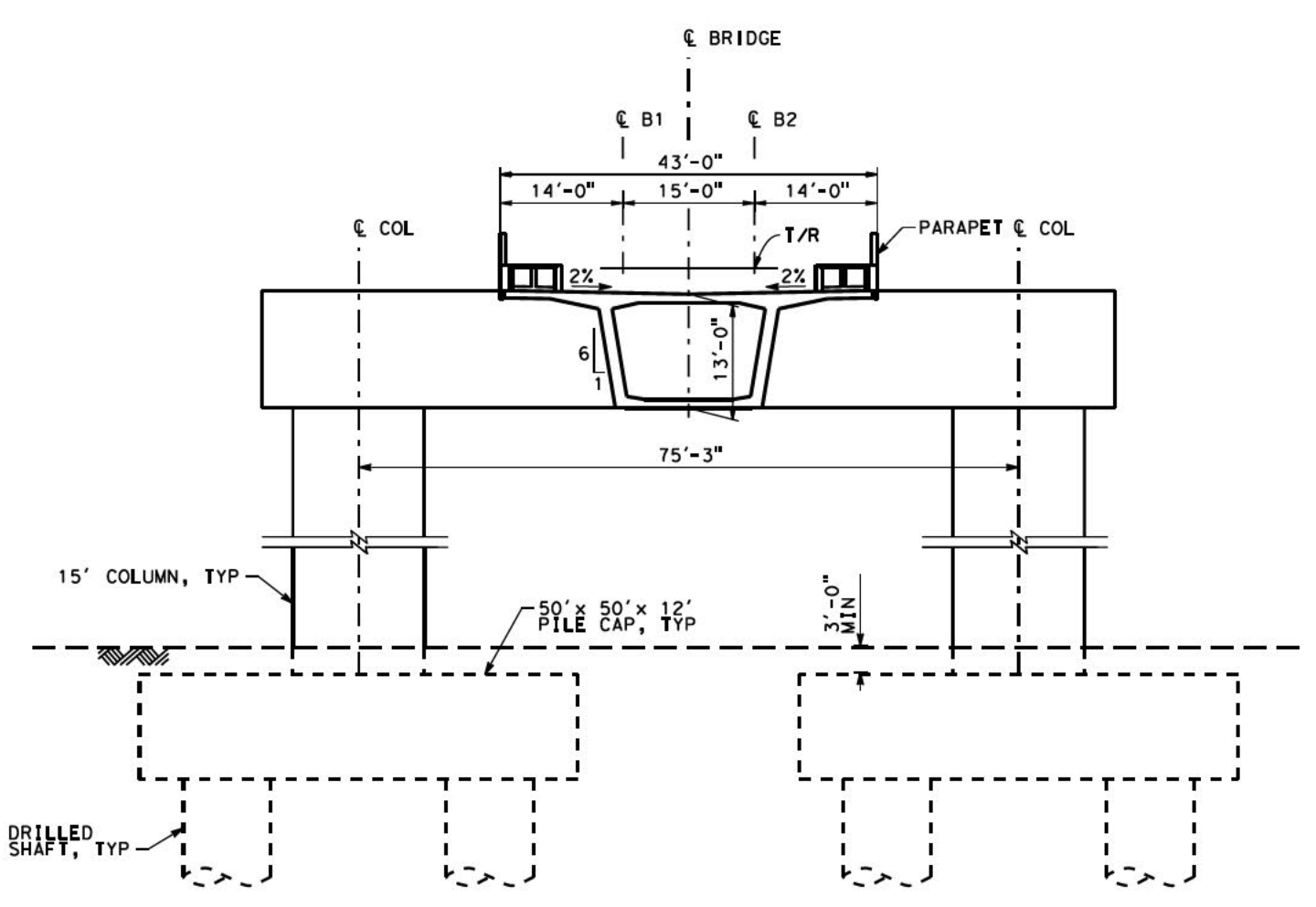
2021 RECORD SET PBD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 COMPLEX STRUCTURES GENERAL PLAN 1 OF 2	CONTRACT NO. HSR15-34 DRAWING NO. ST-V0151 SCALE AS SHOWN SHEET NO.
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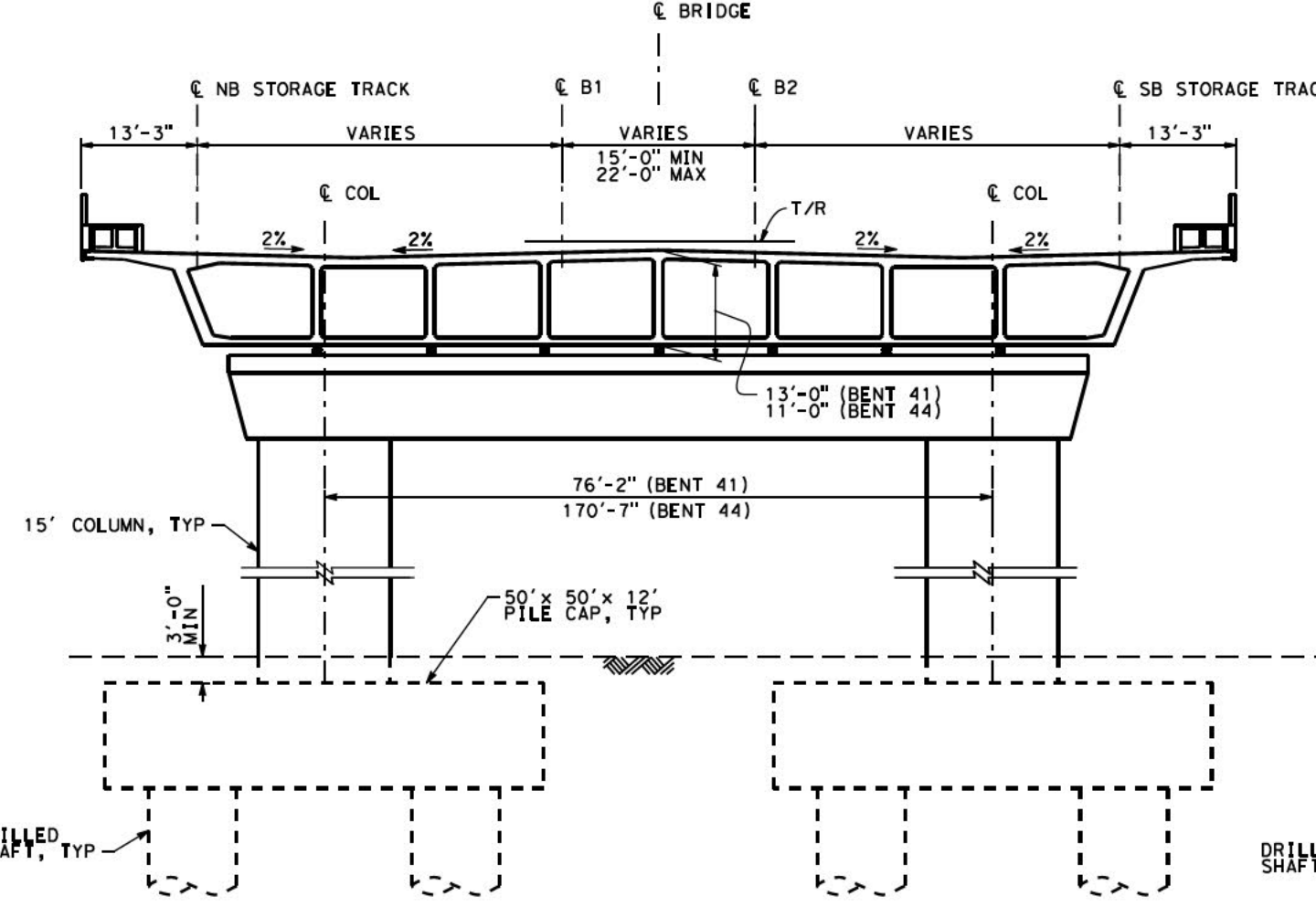
**PLAN - W. SANTA CLARA ST AND DIRIDON STATION**  
SCALE: 1"=200'



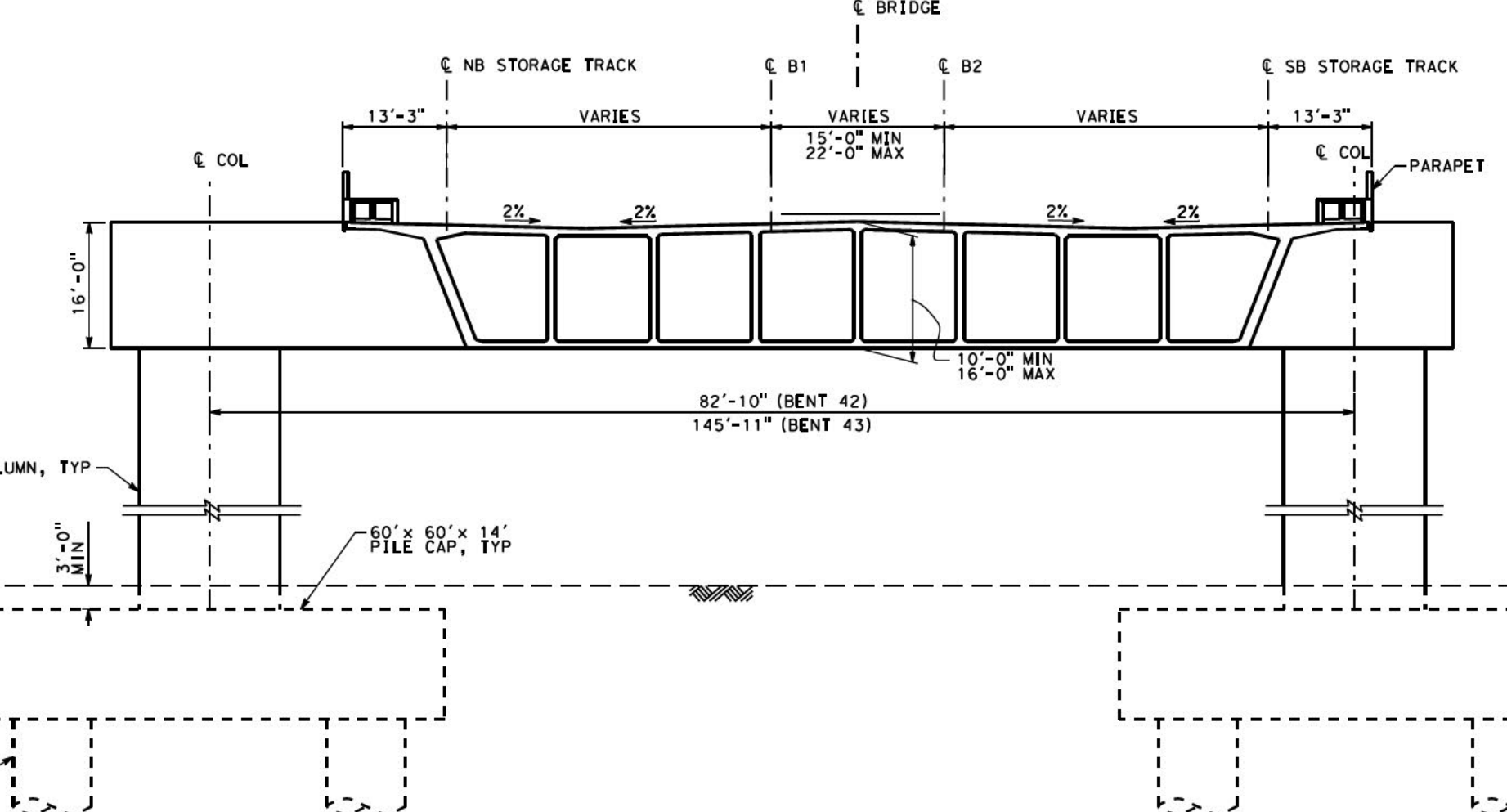
**PROFILE - W. SANTA CLARA ST AND DIRIDON STATION**  
SCALE: 1"=200' HOR, 1"=100' VERT



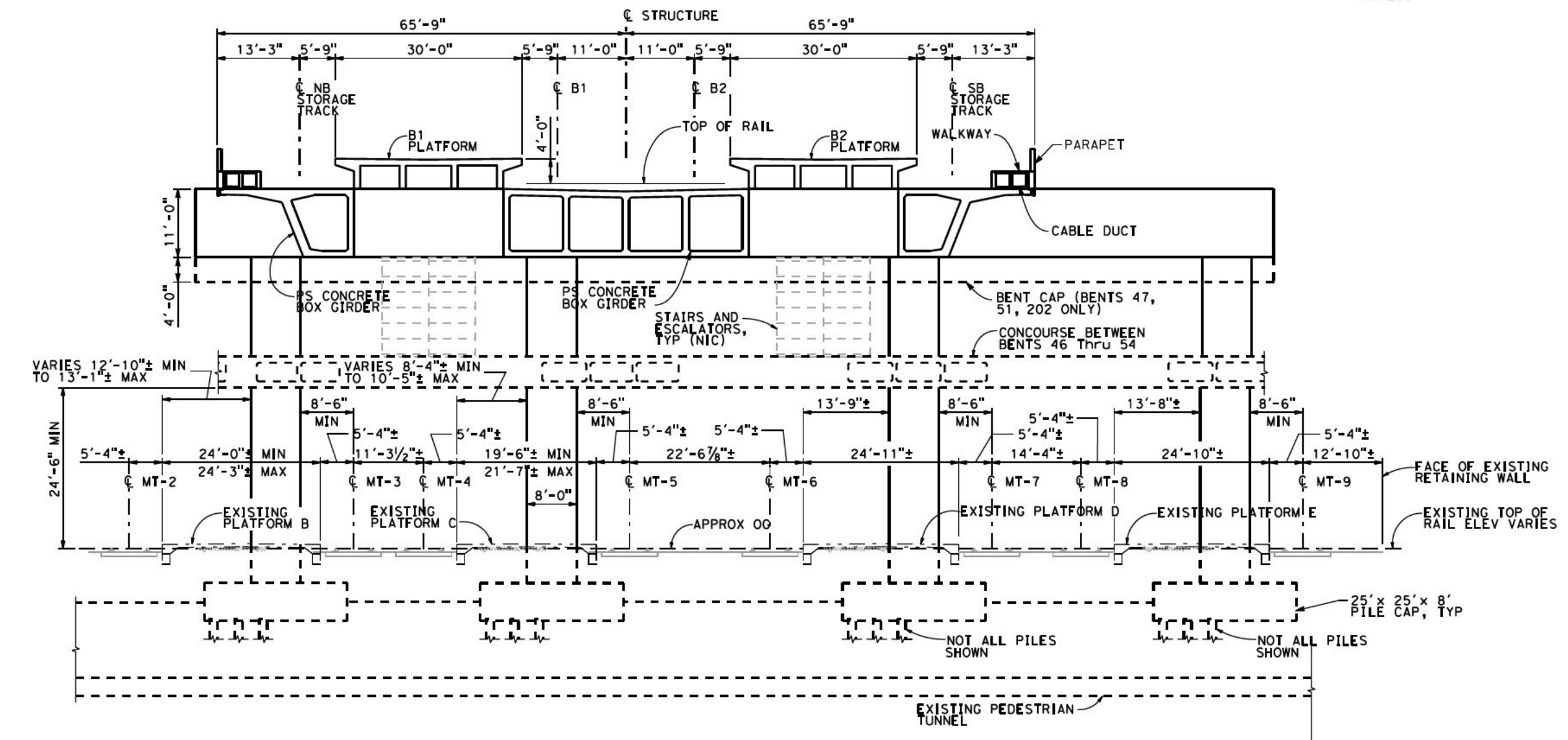
**SECTION A**  
SCALE 1"=20'-0"



**SECTION B**  
SCALE 1"=20'-0"



**SECTION C**  
SCALE 1"=20'-0"

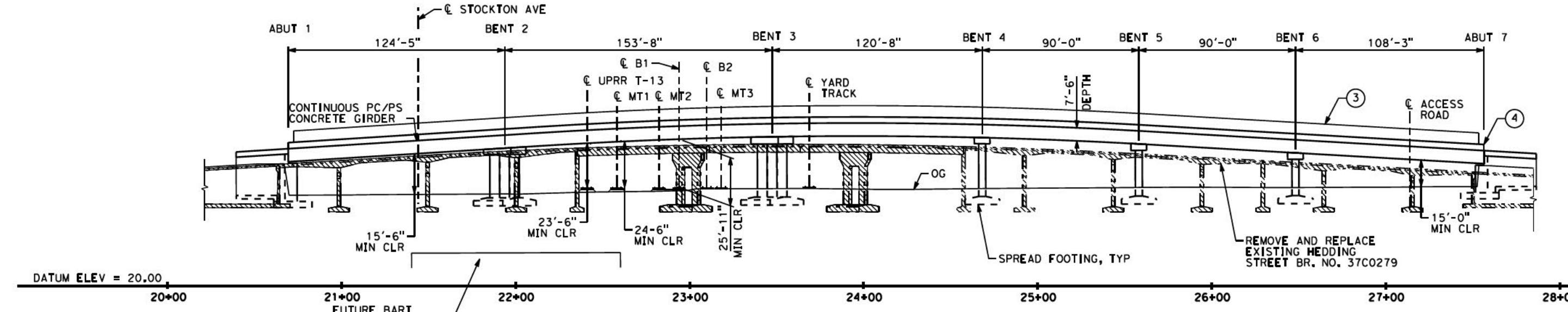


**SECTION D**  
SCALE 1"=20'-0"

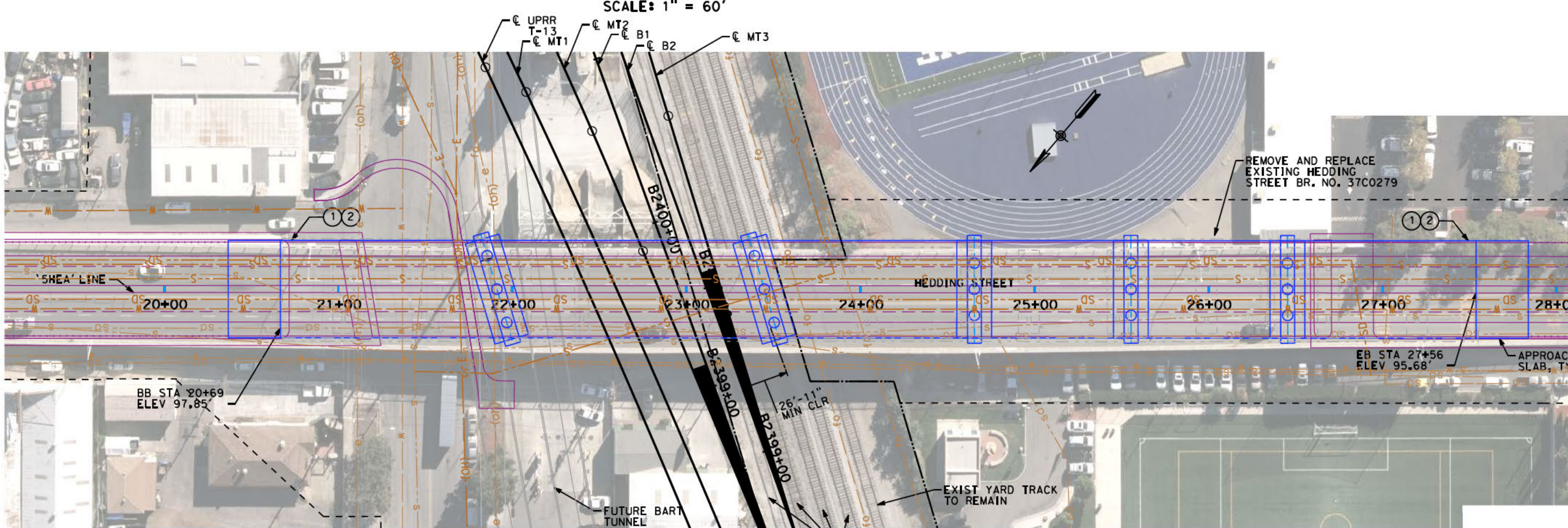
**NOTE:**  
1. REFER TO GENERAL NOTES DRAWING NO. GE-B0101 FOR NOTES.

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 101 OF 146**

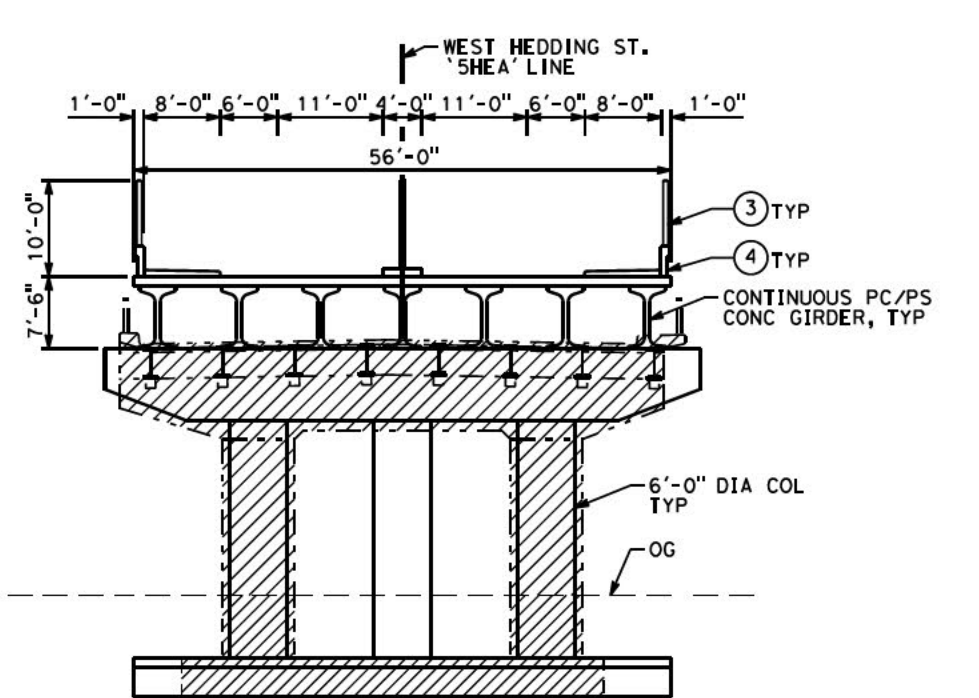
2021 RECORD SET PBD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607	<b>CALIFORNIA</b> High-Speed Rail Authority	<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN JOSE TO MERCED</b> SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-680 COMPLEX STRUCTURES GENERAL PLAN 2 OF 2	CONTRACT NO. HSR15-34 DRAWING NO. ST-V0152 SCALE AS SHOWN SHEET NO.
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**ELEVATION**  
SCALE: 1" = 60'



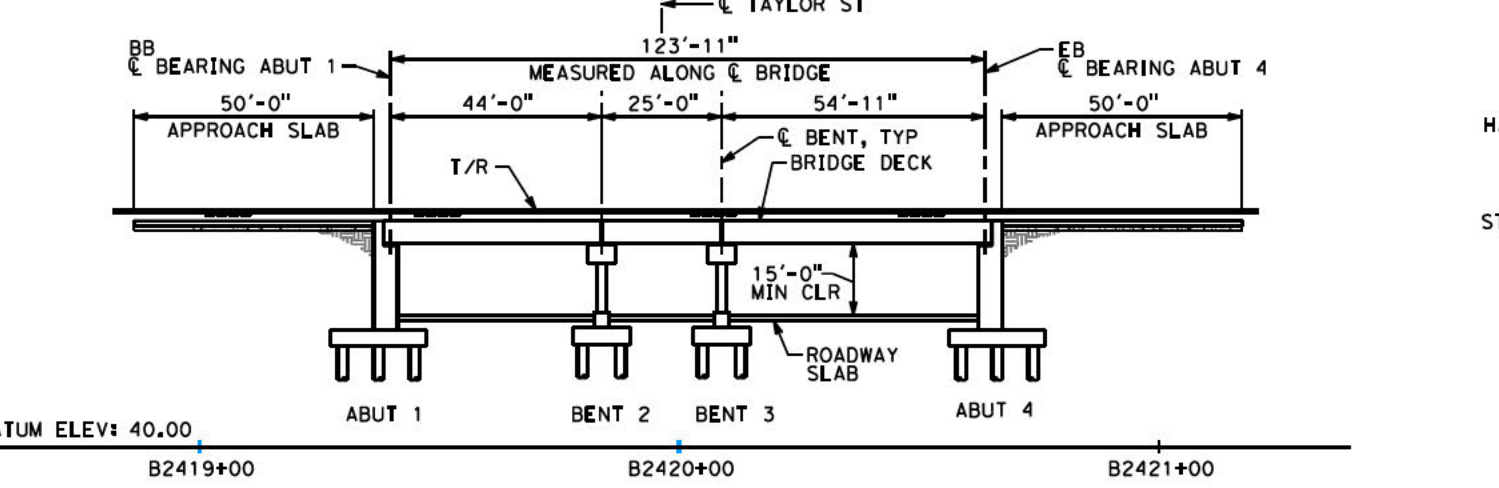
**PLAN - WEST HEDDING STREET**  
SCALE: 1" = 60'



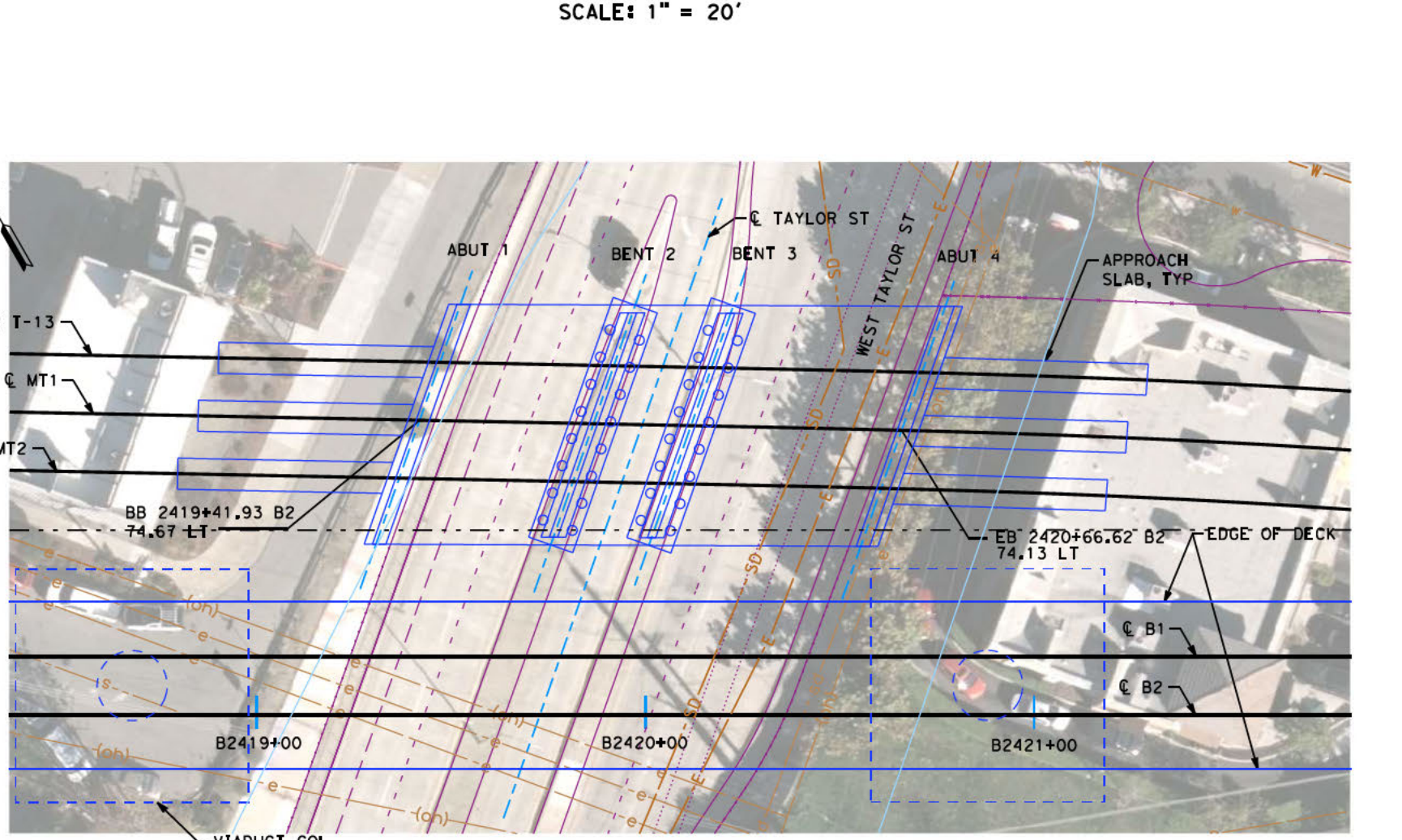
**TYPICAL SECTION**  
SCALE: 1" = 20'

- LEGEND:**
- EXISTING STRUCTURE
  - NEW CONSTRUCTION
  - ▨ EXISTING BRIDGE TO BE REMOVED
- NOTES:**
1. PAINT "HEDDING STREET OVERHEAD"
  2. PAINT "BRIDGE NO. XX-XXXX"
  3. CHAIN LINK RAILING TYPE 7, TYP (MOD)
  4. CONCRETE BARRIER TYPE 732, TYP

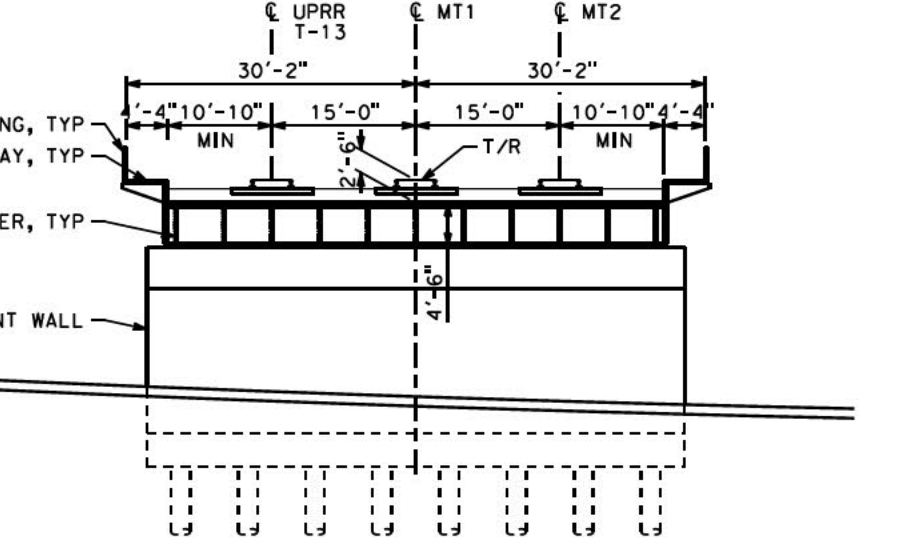
- NOTES:**
1. STRUCTURE LOCATED AT CALTRAIN MP 46.2.
  2. ANY EXISTING UTILITY THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE RELOCATED UNLESS OTHERWISE NOTED.
  3. VEHICULAR TRAFFIC WILL BE DETOURED DURING CONSTRUCTION.



**ELEVATION**  
SCALE: 1" = 20'



**PLAN - TAYLOR STREET**  
SCALE: 1" = 20'



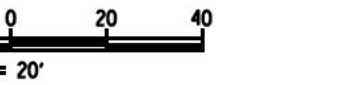
**TYPICAL SECTION**  
SCALE: 1" = 10'

**LEGEND:**

- EXISTING STRUCTURE
- NEW CONSTRUCTION
- ▨ EXISTING BRIDGE TO BE REMOVED

**NOTES:**

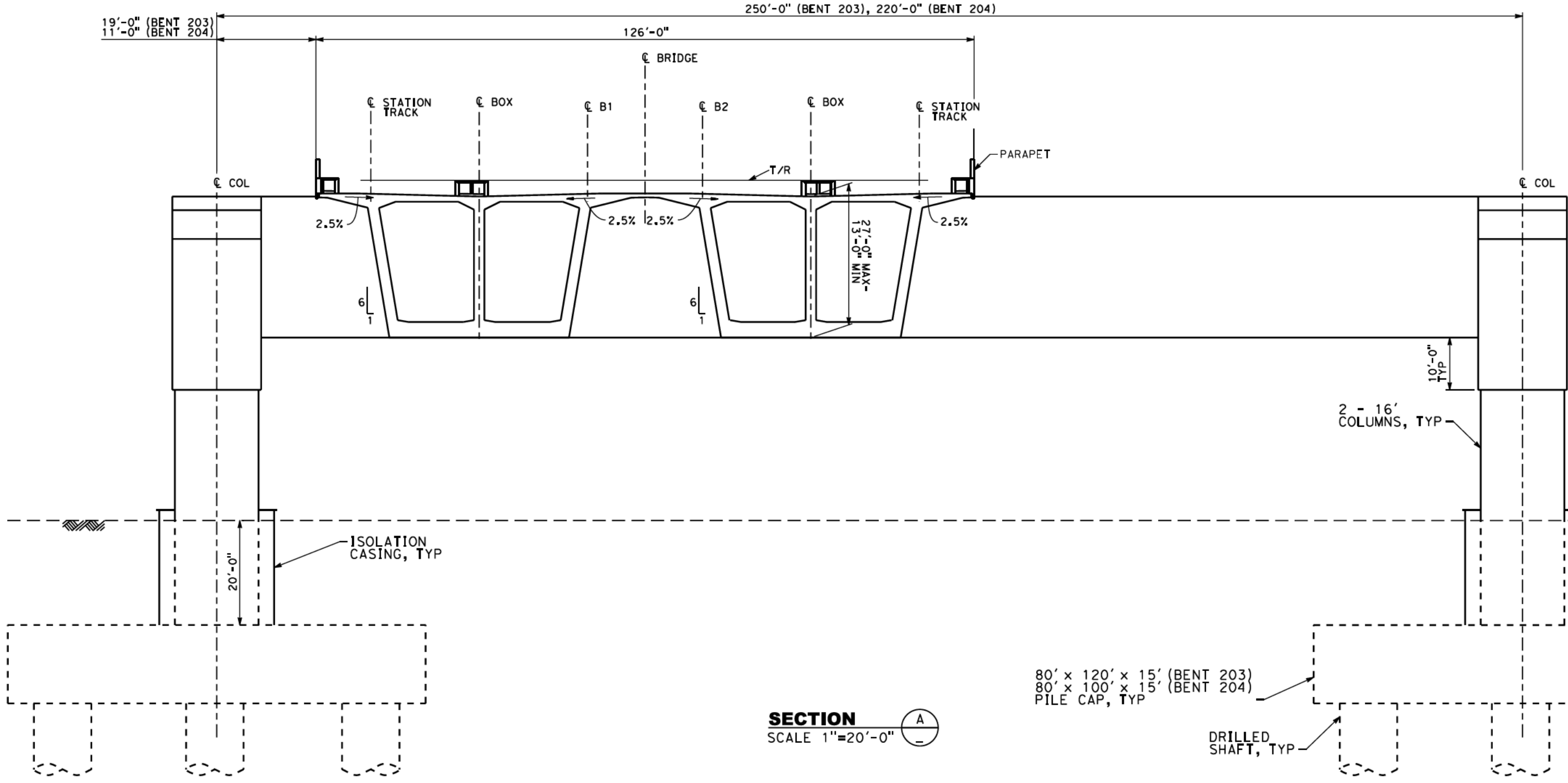
1. STRUCTURE LOCATED AT CALTRAIN MP 46.52.
2. VEHICULAR TRAFFIC WILL BE DETOURED DURING CONSTRUCTION.
3. OCS MAST POLES WILL BE LOCATED OFF OF STRUCTURE.
4. ANY EXISTING UTILITY THAT CONFLICTS WITH NEW CONSTRUCTION SHALL BE RELOCATED UNLESS OTHERWISE NOTED.



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 102 OF 146**

<p>2021 RECORD SET PBD NOVEMBER 30, 2021 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> SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 OVERPASSES AND UNDERPASSES HEDDING ST AND TAYLOR ST</p>	<p>CONTRACT NO. HSR15-34 DRAWING NO. ST-T0151 SCALE AS SHOWN SHEET NO.</p>
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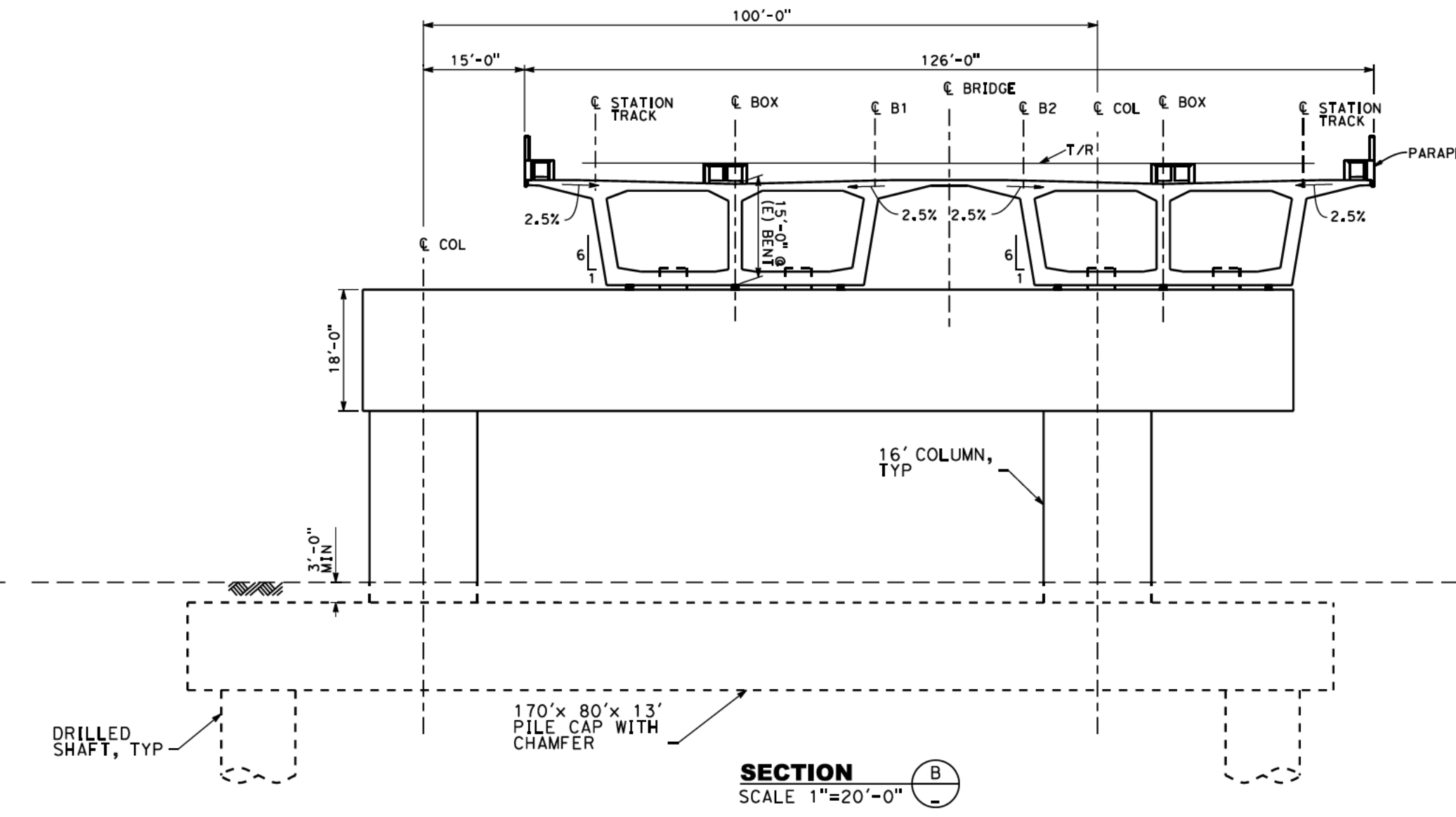
BENT	D1	D2
206	15'-0"	24'-0"
207	15'-0"	24'-0"
209	15'-0"	17'-0"
211	14'-0"	28'-0"



**SECTION A**  
SCALE 1"=20'-0"

80' x 120' x 15' (BENT 203)  
80' x 100' x 15' (BENT 204)  
PILE CAP, TYP

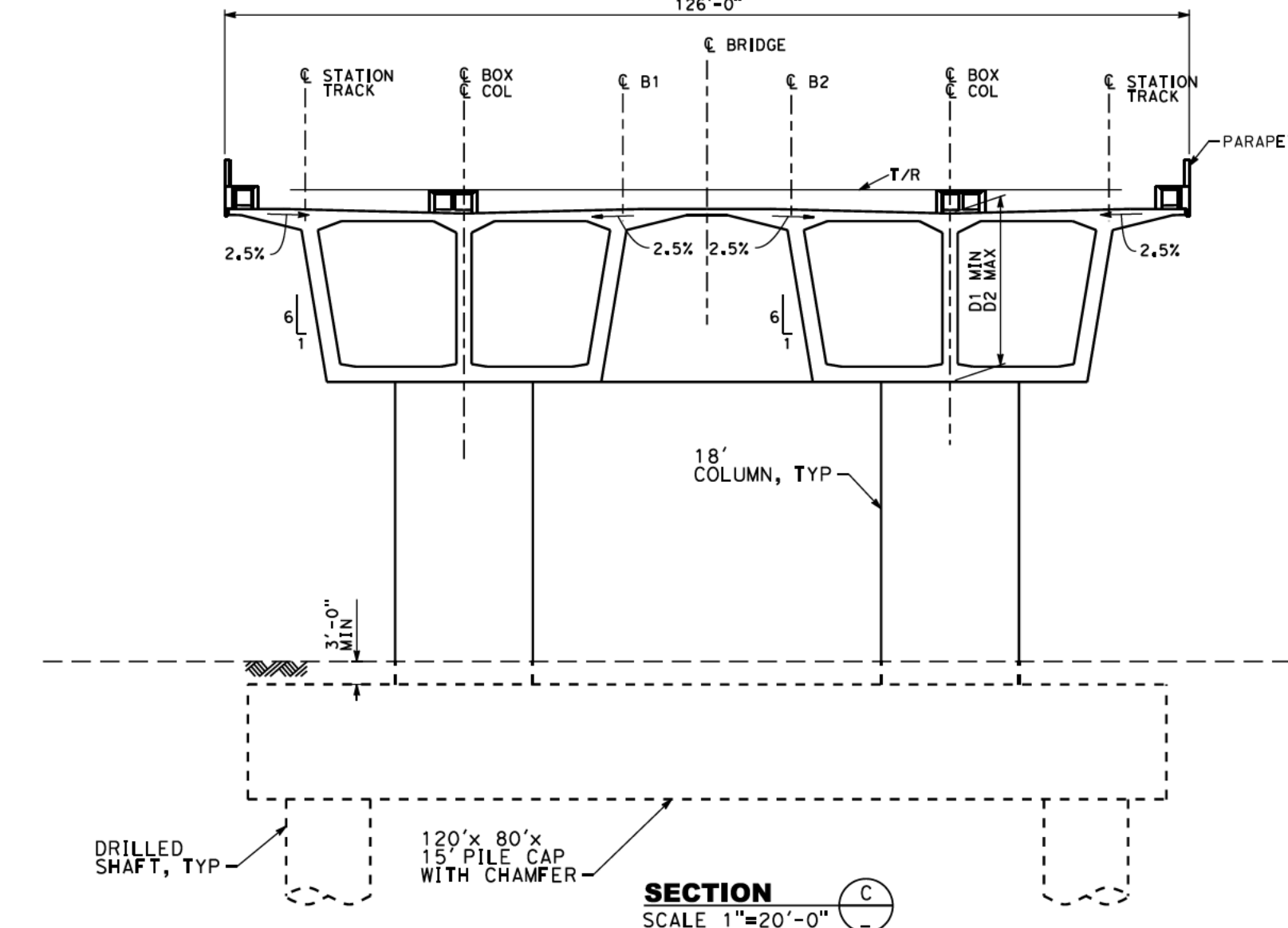
DRILLED SHAFT, TYP



**SECTION B**  
SCALE 1"=20'-0"

DRILLED SHAFT, TYP

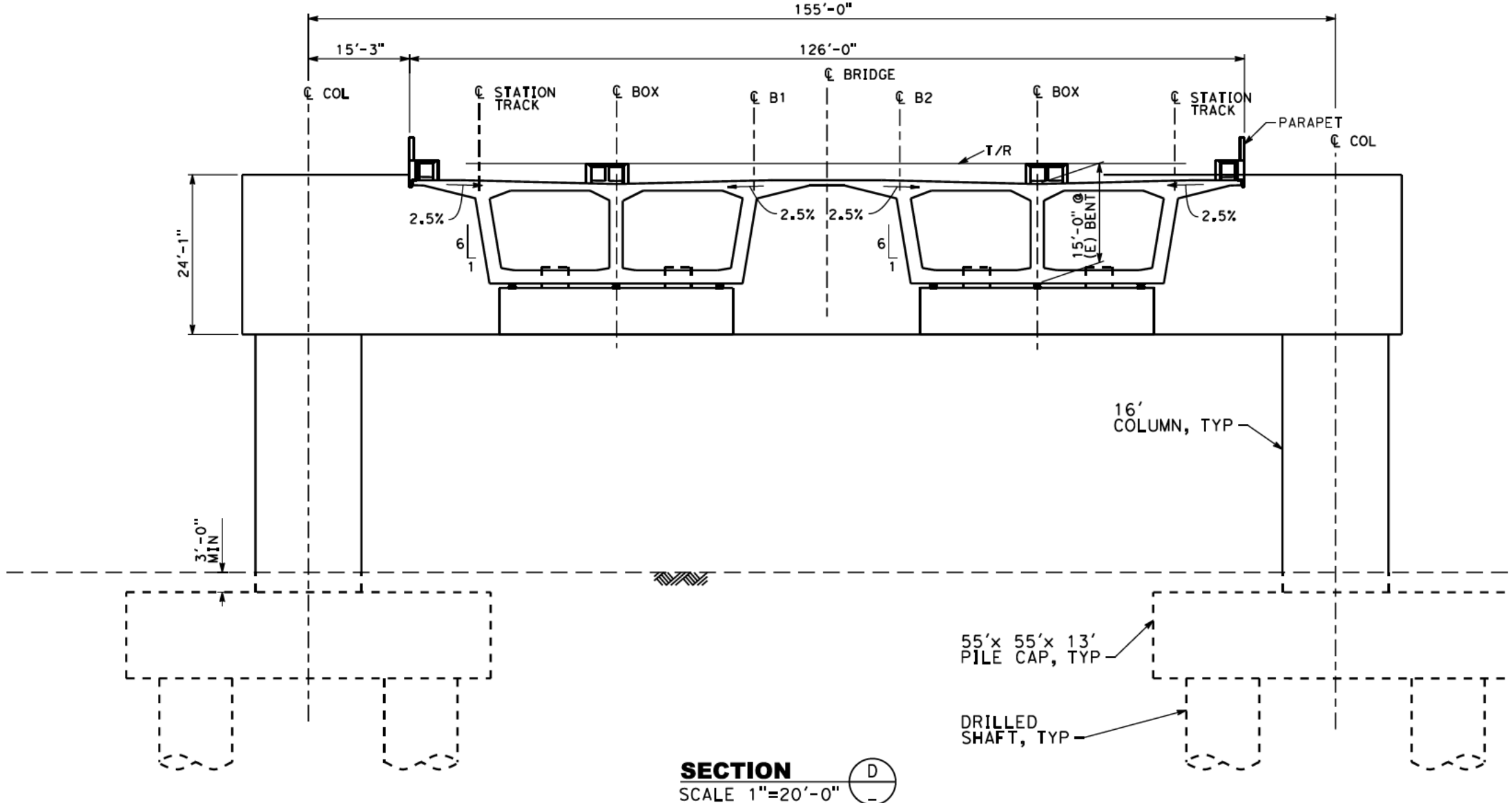
170' x 80' x 13'  
PILE CAP WITH  
CHAMFER



**SECTION C**  
SCALE 1"=20'-0"

DRILLED SHAFT, TYP

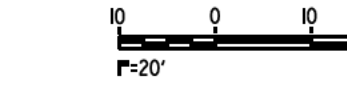
120' x 80' x 15'  
PILE CAP  
WITH CHAMFER



**SECTION D**  
SCALE 1"=20'-0"

55' x 55' x 13'  
PILE CAP, TYP

DRILLED SHAFT, TYP



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 103 OF 146**

2021 RECORD SET PERD  
NOVEMBER 30, 2021  
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  
TYPICAL SECTIONS  
SHEET 1 OF 3

CONTRACT NO.  
HSR15-34  
DRAWING NO.  
ST-V0301  
SCALE  
AS SHOWN  
SHEET NO.

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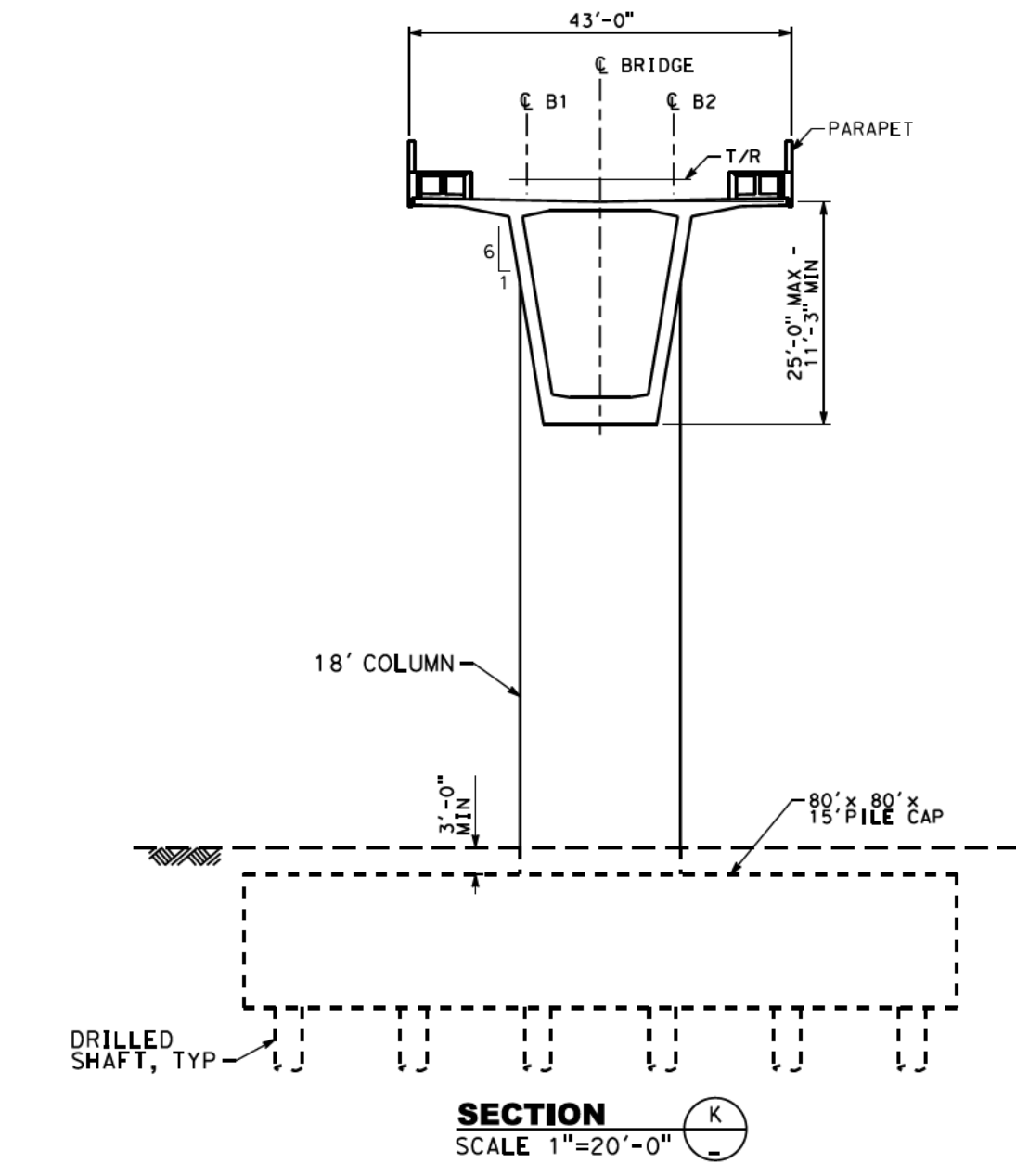
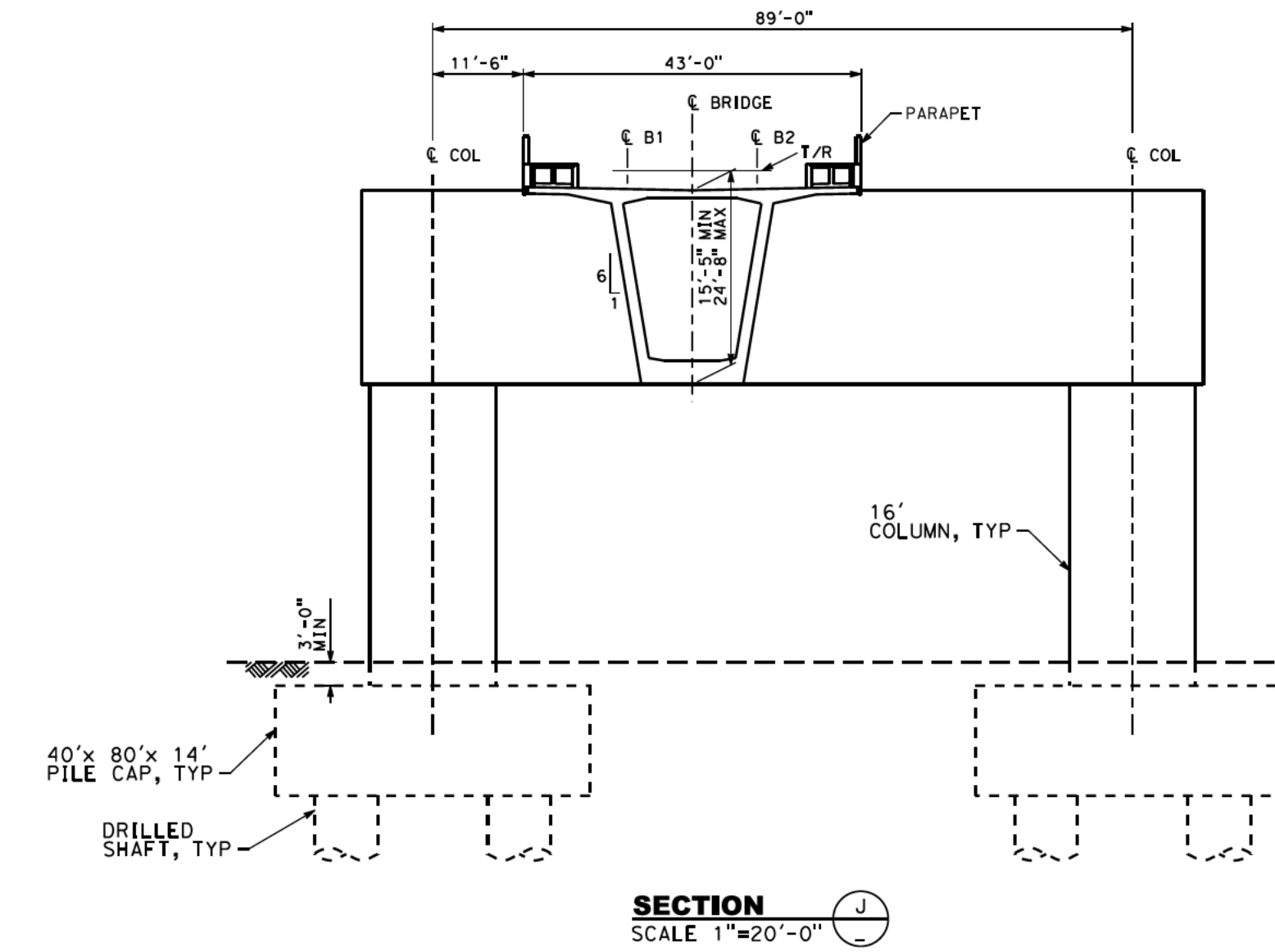
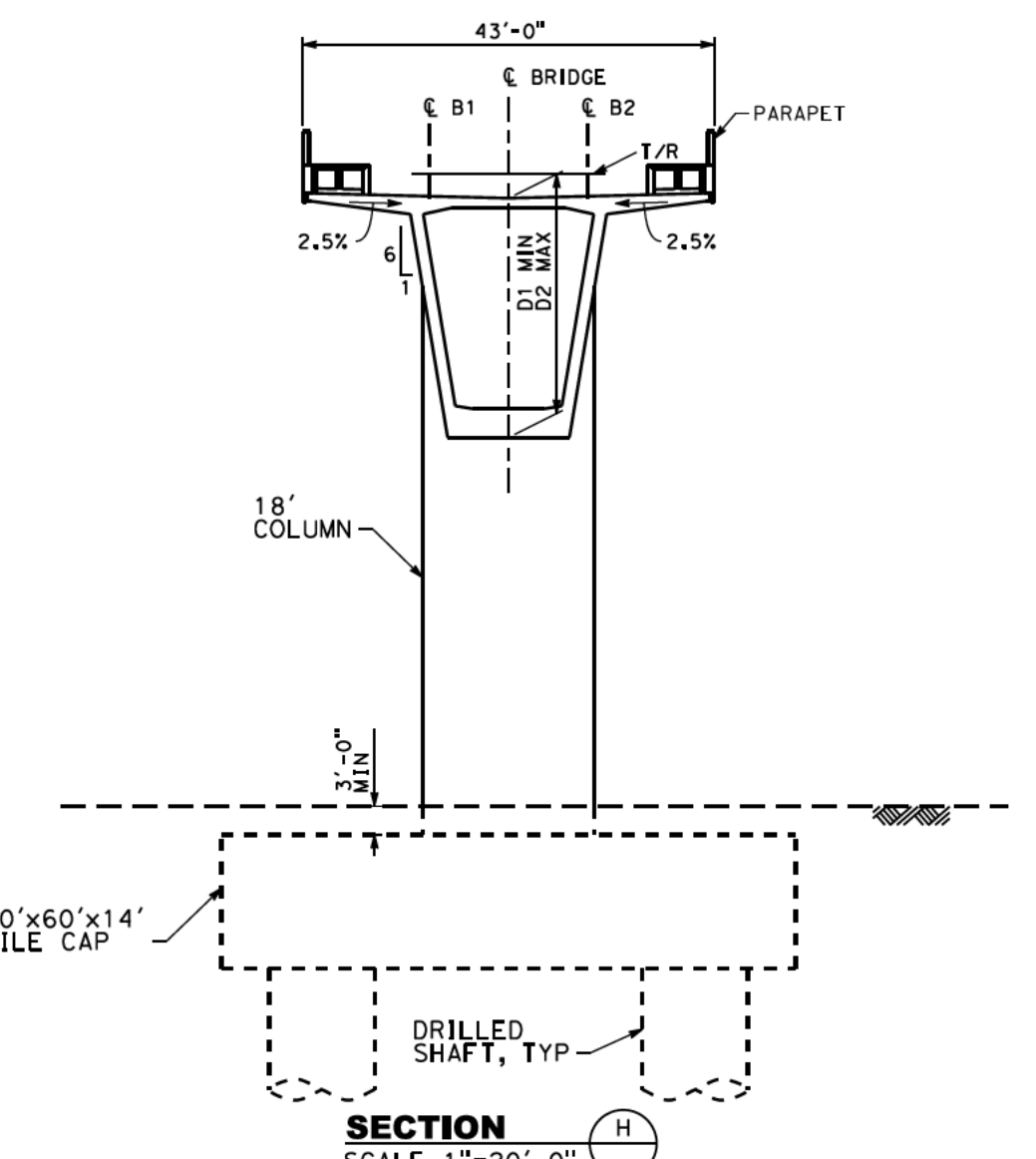
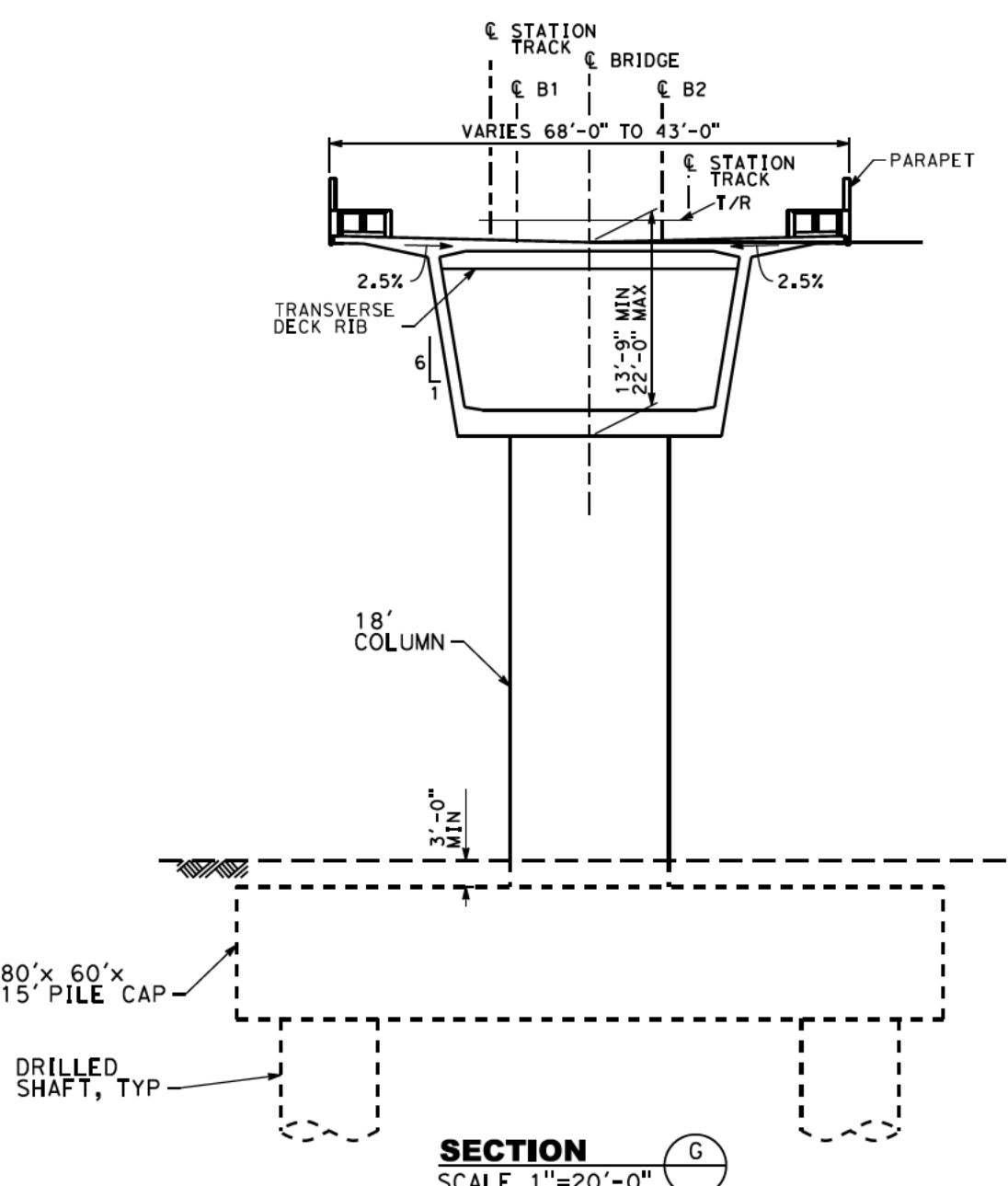
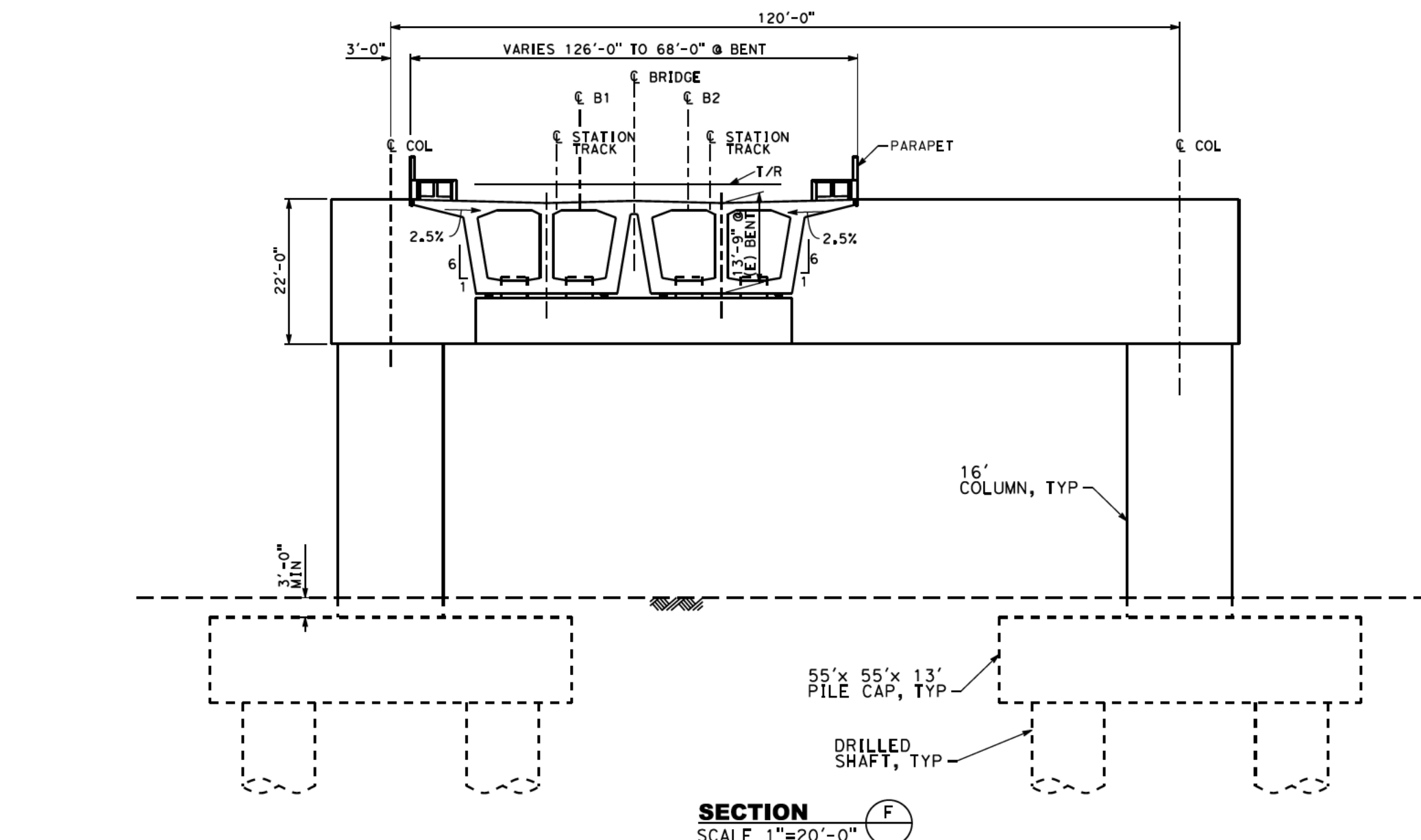
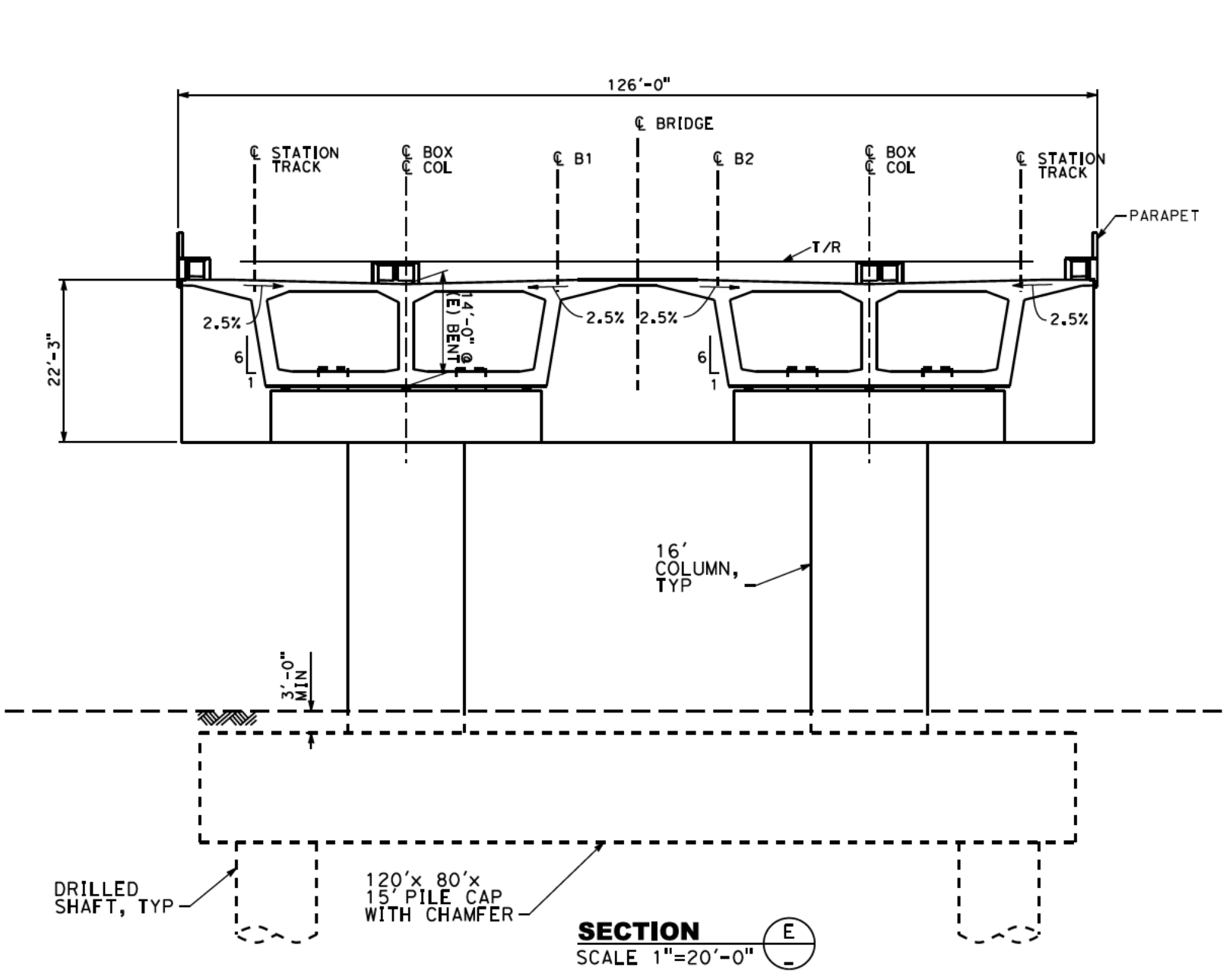


TABLE OF VIADUCT DIMENSIONS		
BENT	D1	D2
225	15'-6"	30'-0"
227	15'-0"	22'-8"
228	14'-2"	22'-8"
229	14'-2"	23'-0"

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 104 OF 146**

2021 RECORD SET PBD  
 NOVEMBER 30, 2021  
 NOT FOR CONSTRUCTION



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  
 TYPICAL SECTIONS  
 SHEET 2 OF 3

CONTRACT NO. HSR15-34  
 DRAWING NO. ST-V0302  
 SCALE AS SHOWN  
 SHEET NO.

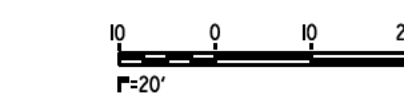
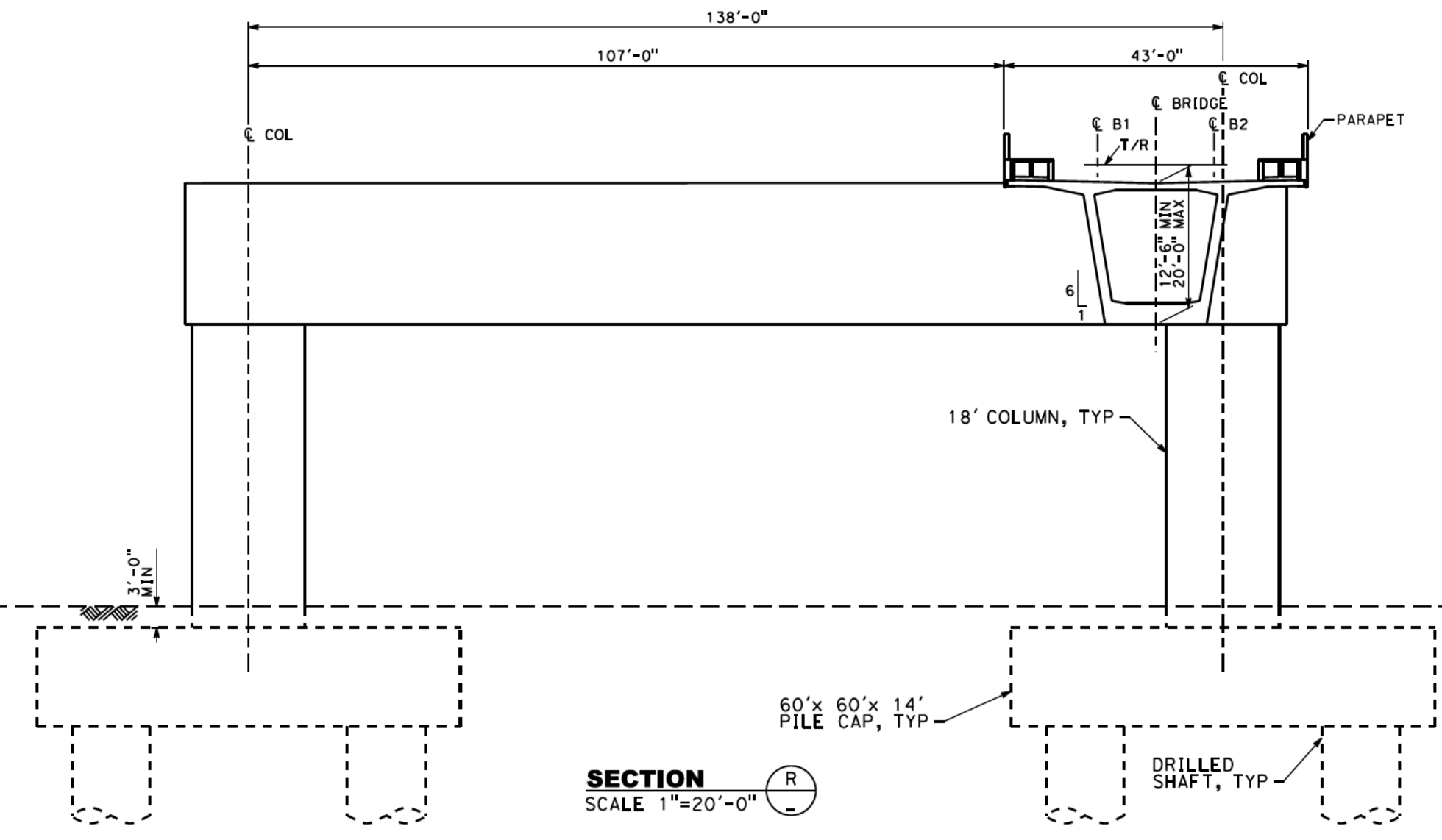
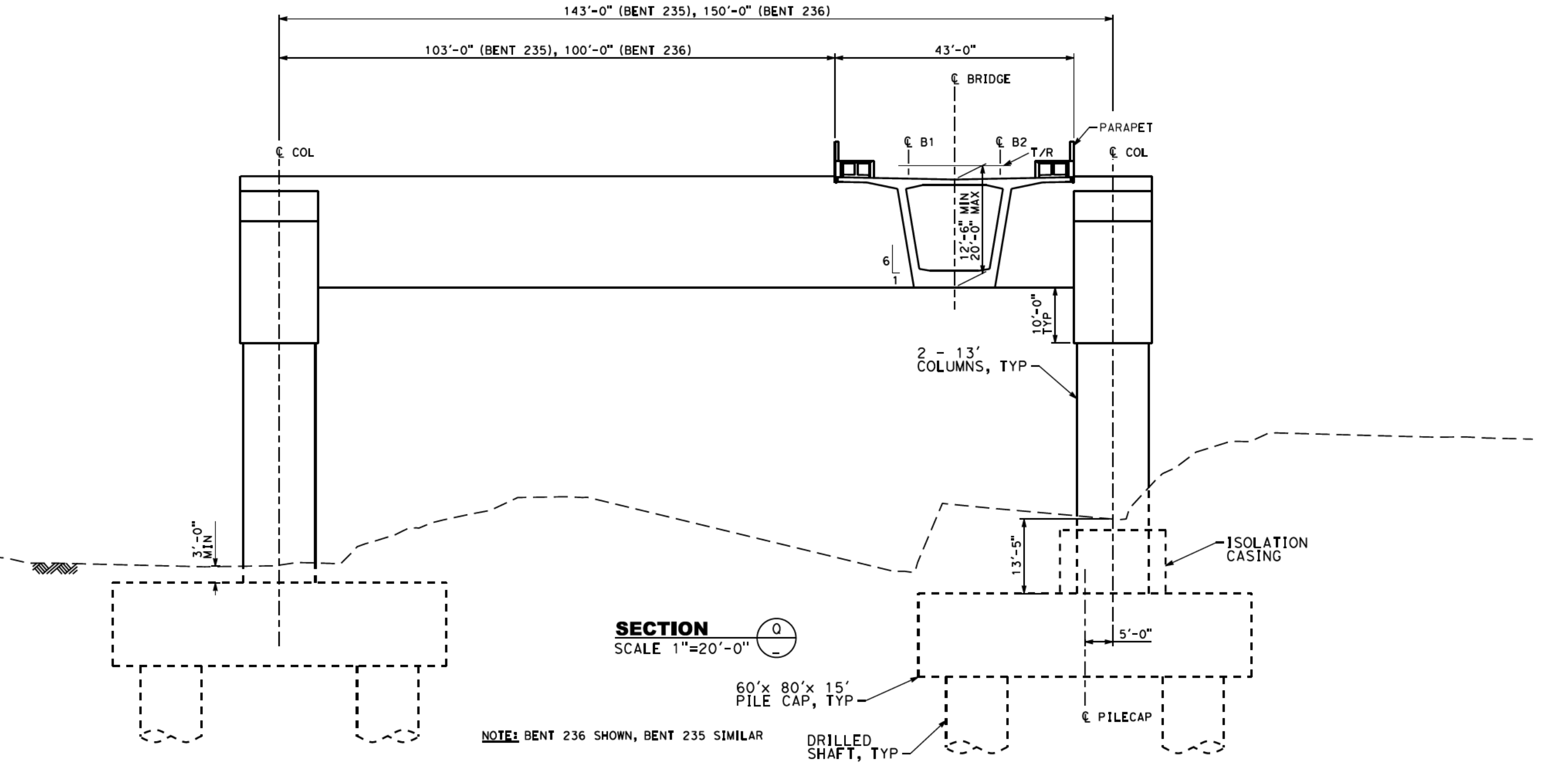
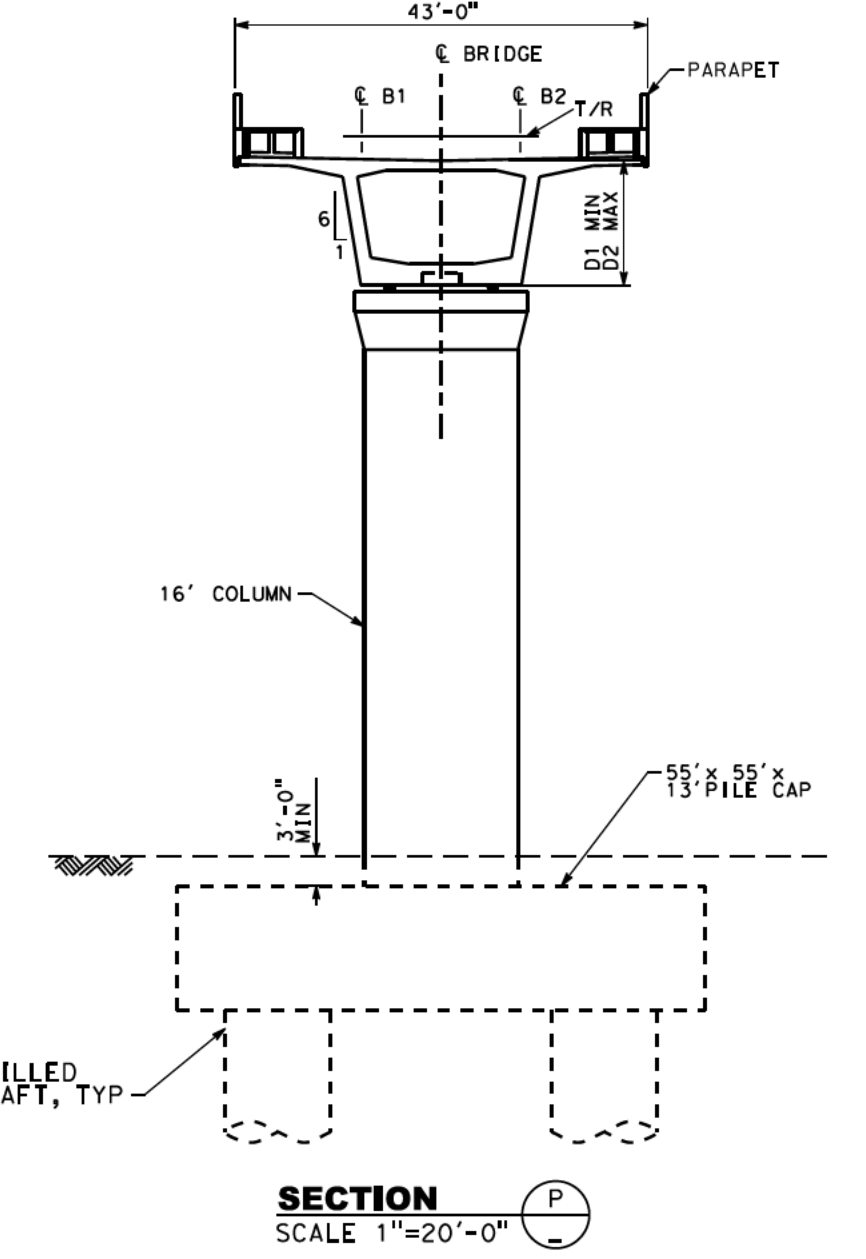
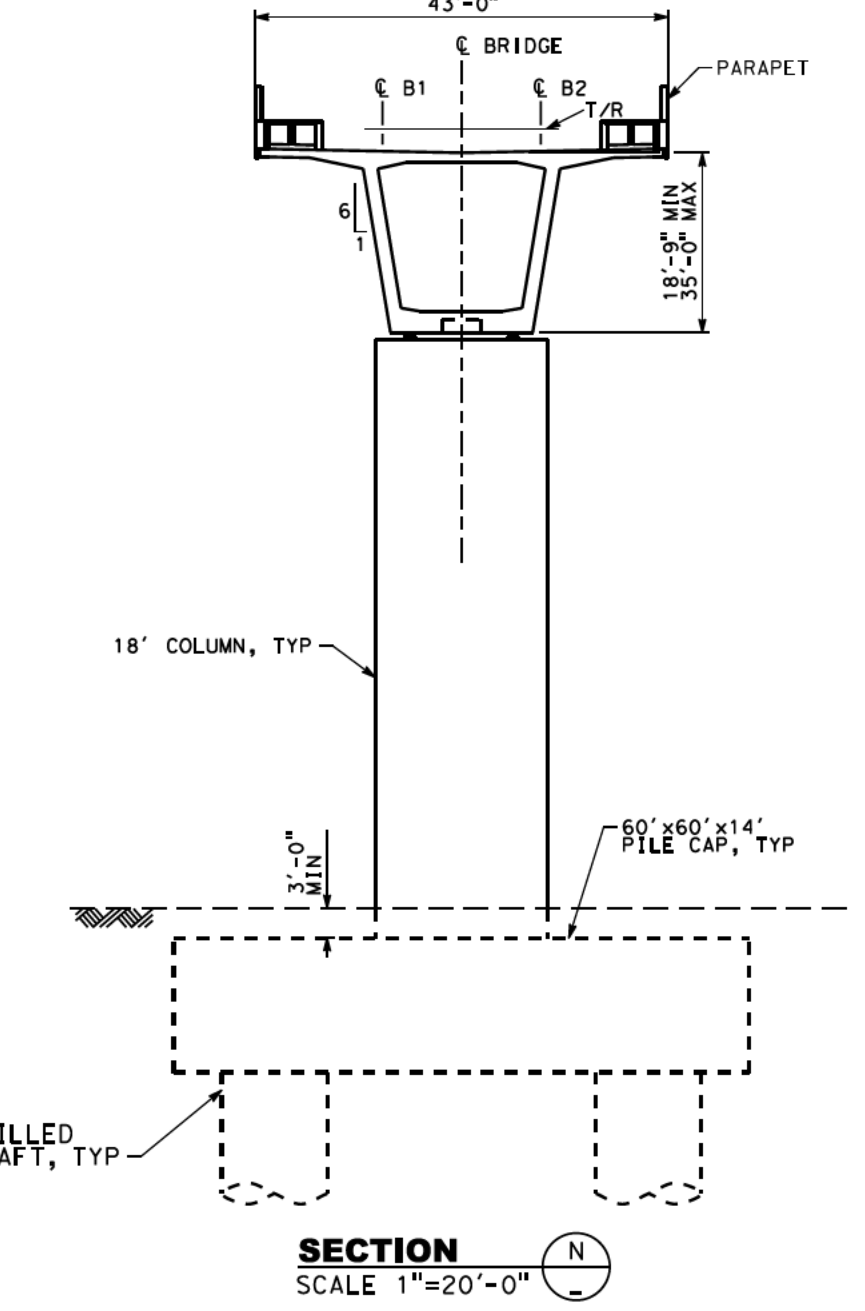
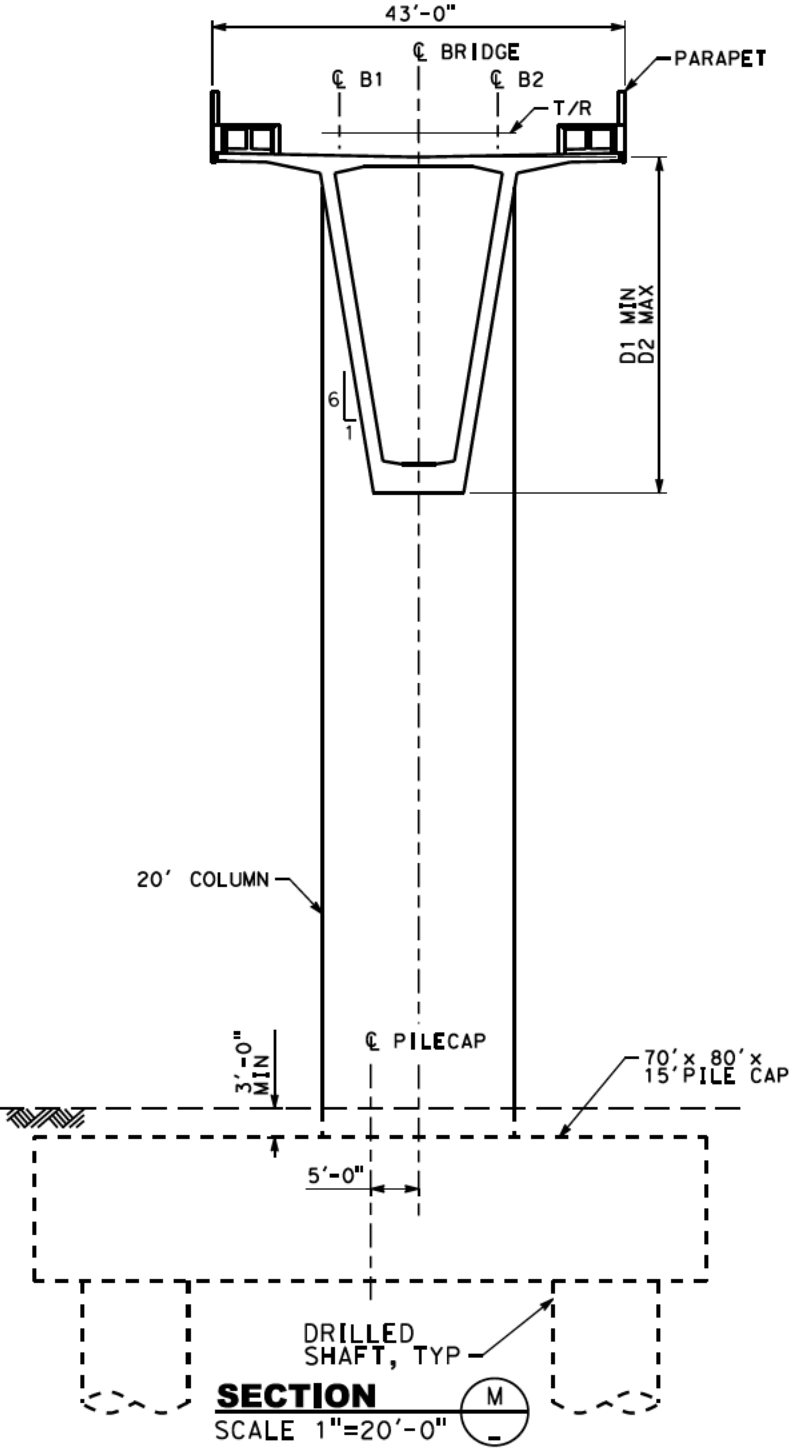
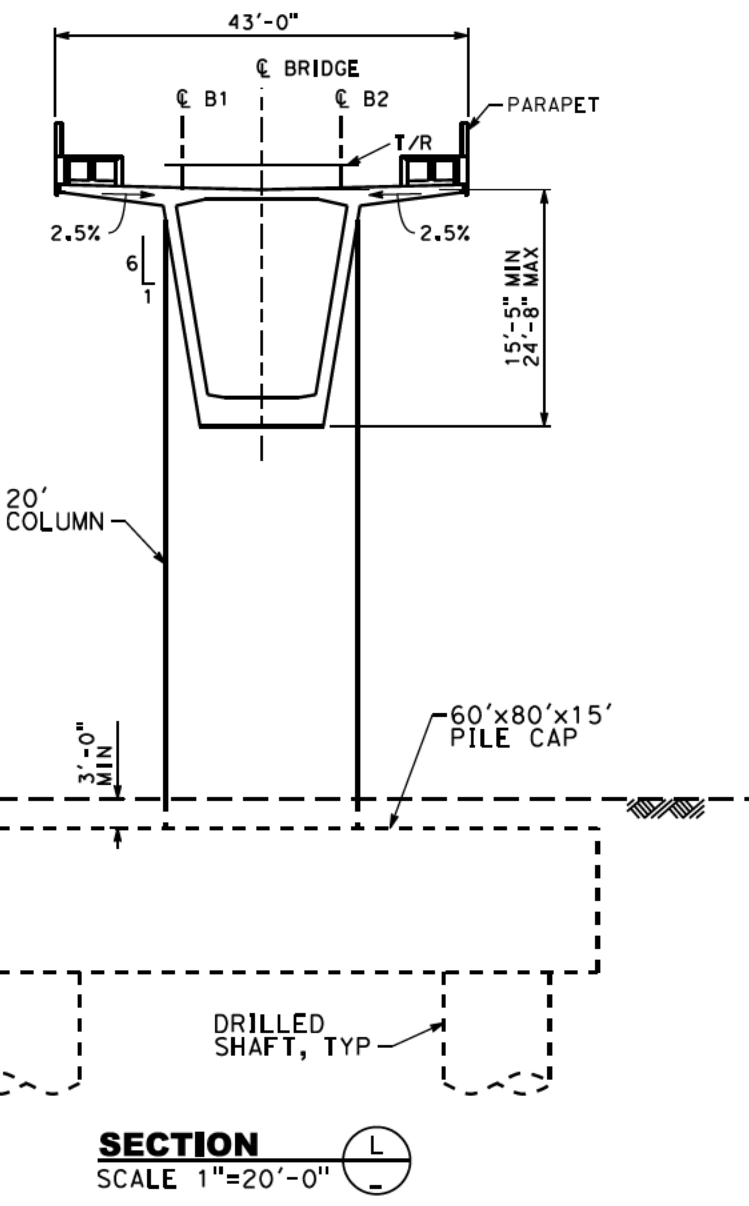
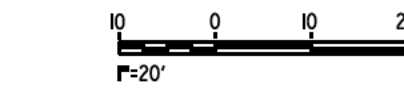


TABLE OF VIADUCT DIMENSIONS		
BENT	D1	D2
219	18'-9"	30'-0"
220	18'-9"	35'-0"

TABLE OF VIADUCT DIMENSIONS		
BENT	D1	D2
217	15'-6"	25'-0"
218	15'-6"	18'-9"
222	15'-6"	18'-9"
226	15'-0"	30'-0"
230	13'-0"	23'-0"



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 105 OF 146**



**SECTION Q**  
 SCALE 1"=20'-0"

**SECTION R**  
 SCALE 1"=20'-0"

NOTE: BENT 236 SHOWN, BENT 235 SIMILAR

2021 RECORD SET PBD  
 NOVEMBER 30, 2021  
 NOT FOR CONSTRUCTION



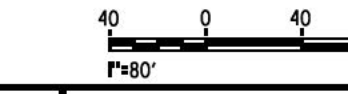
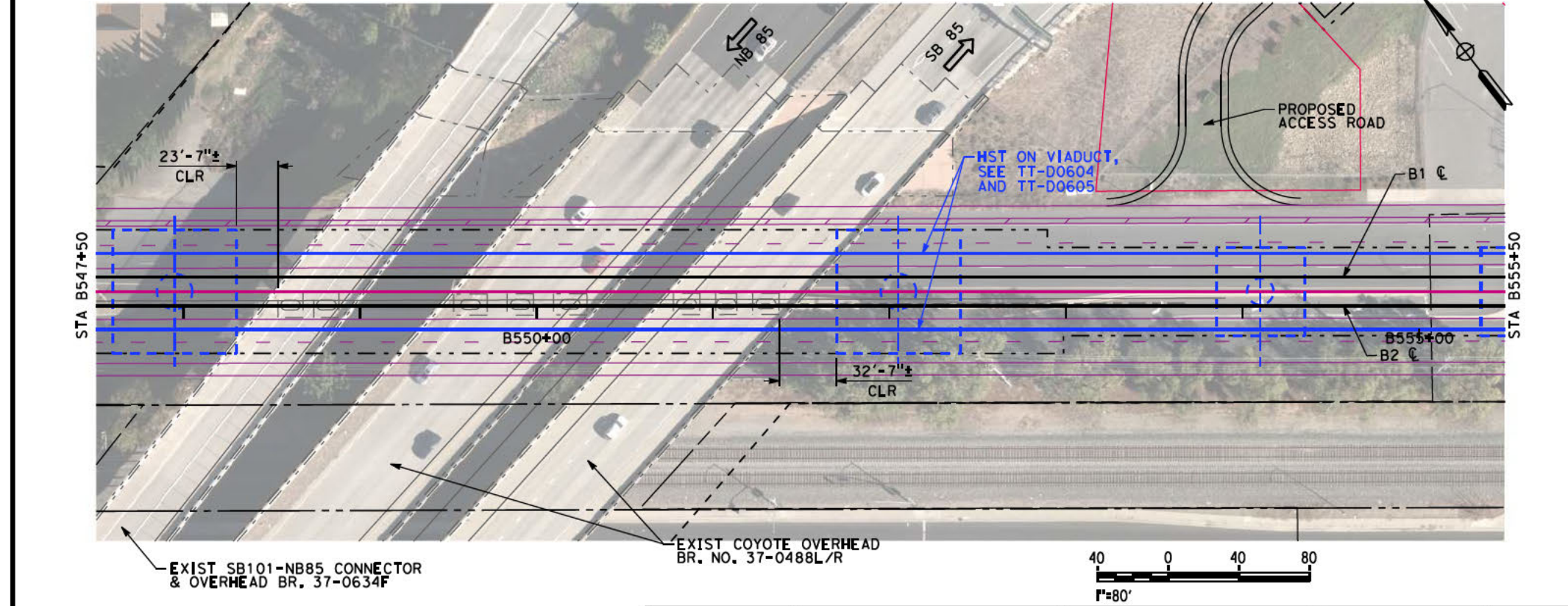
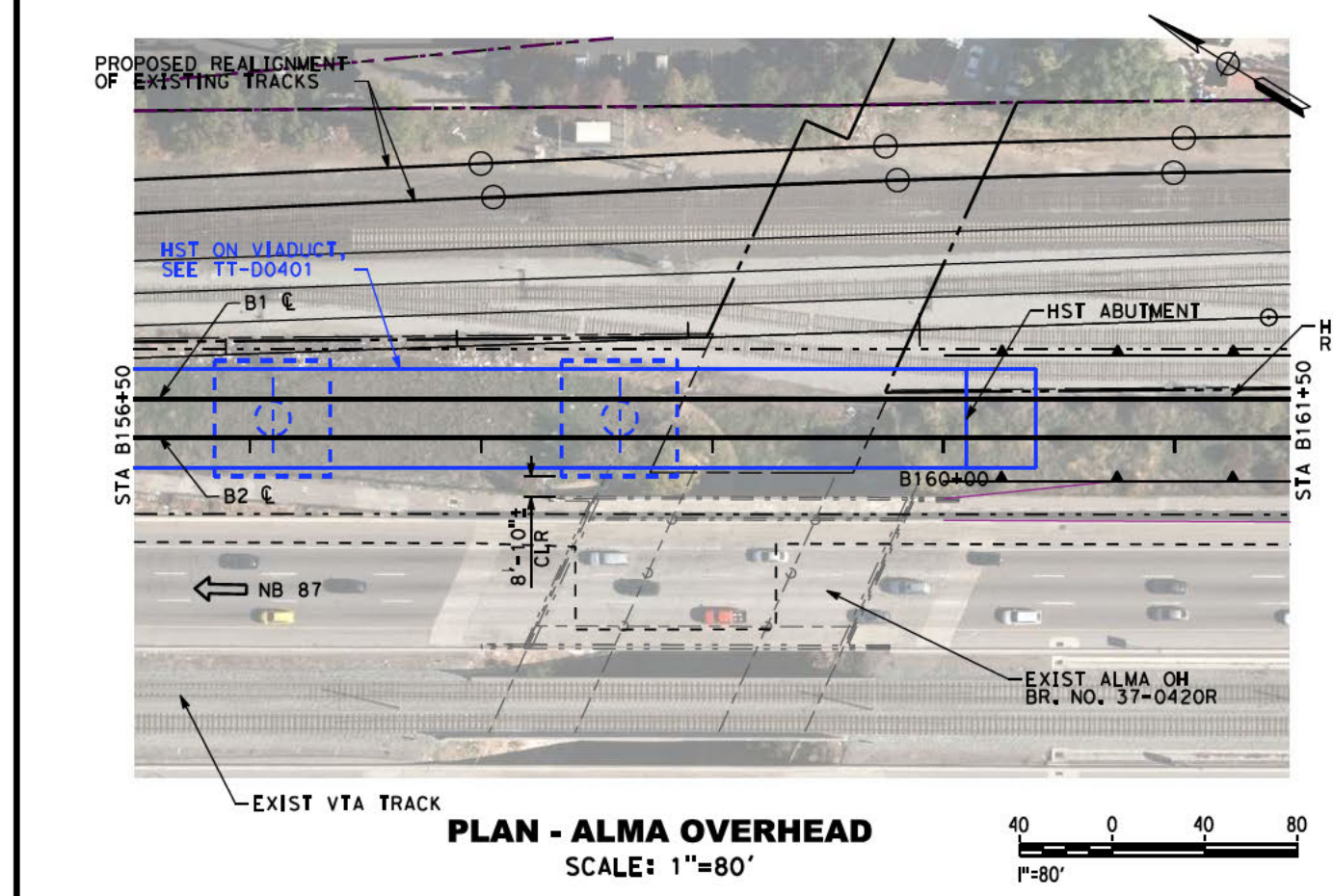
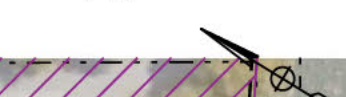
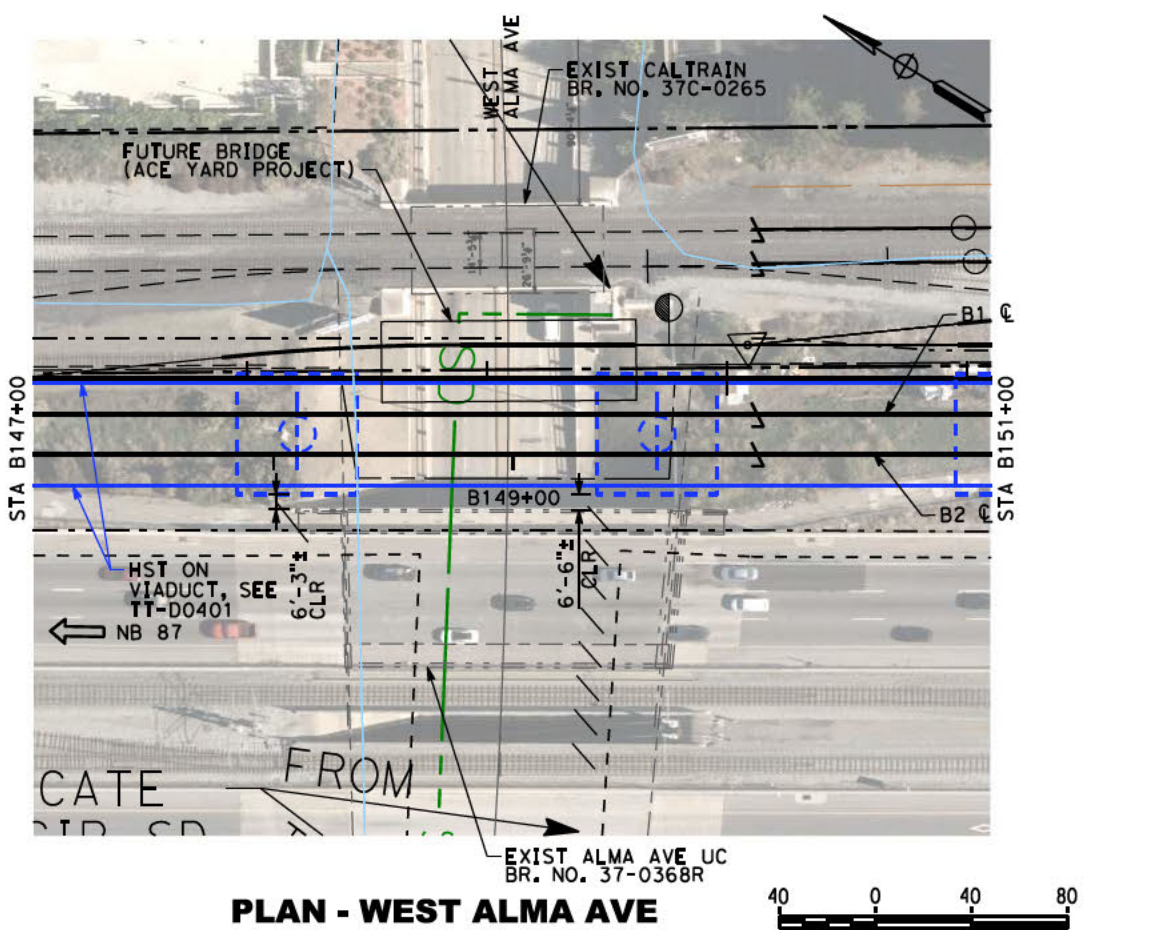
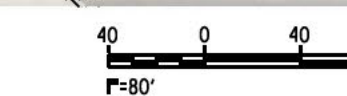
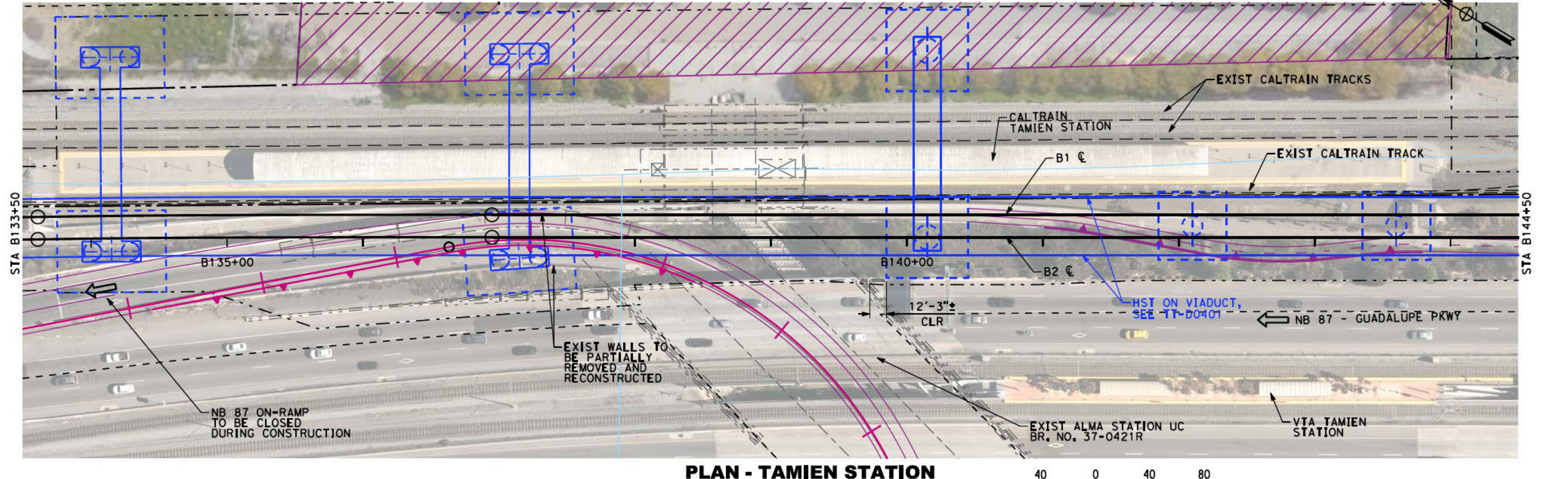
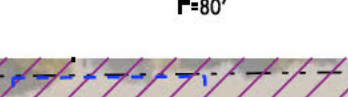
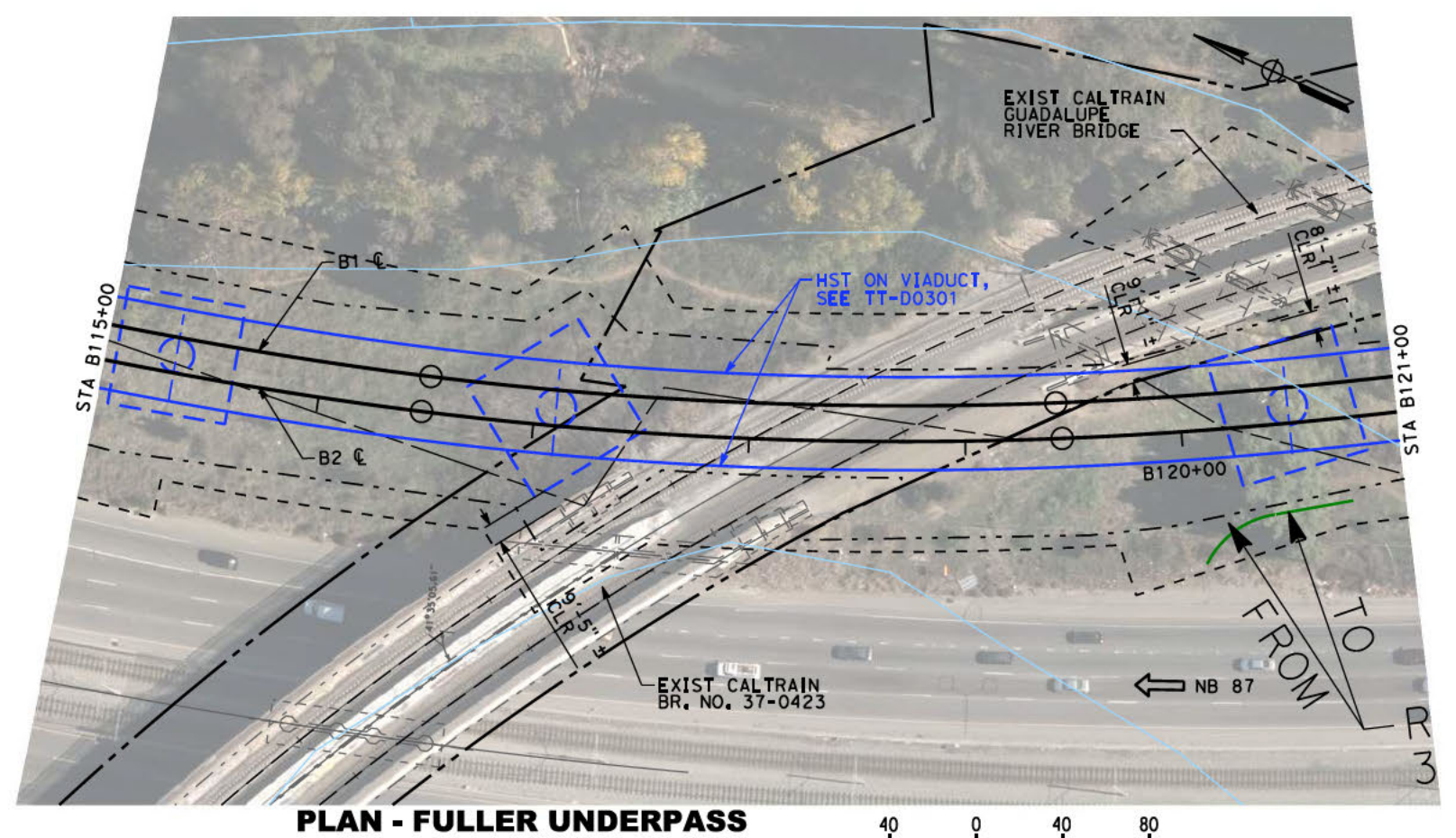
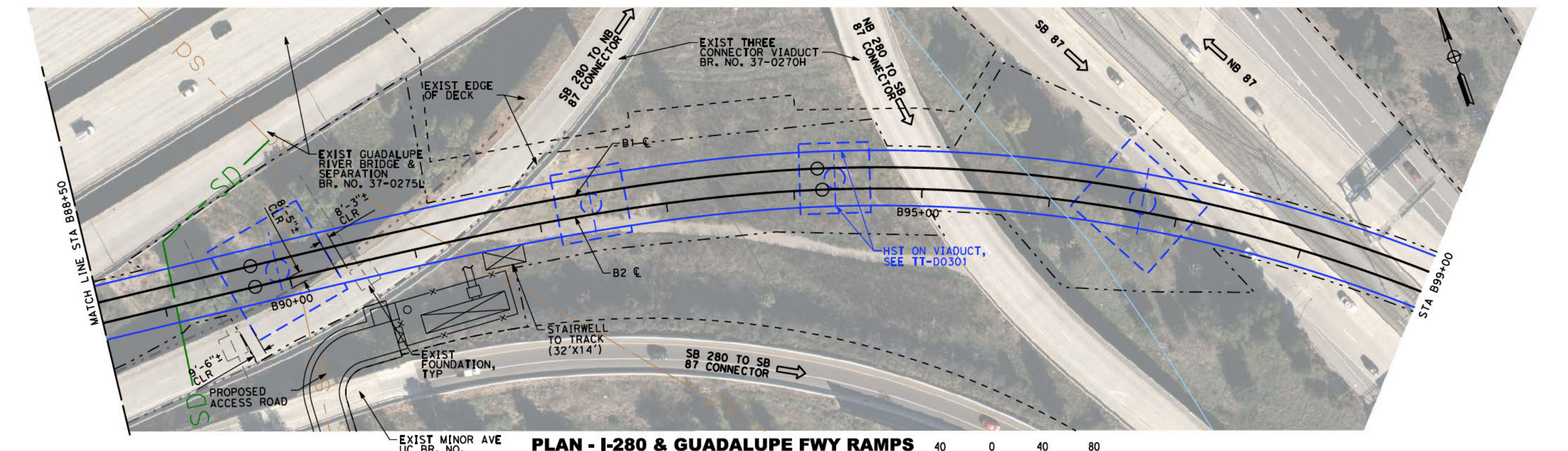
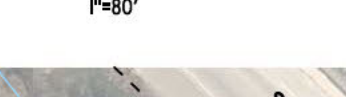
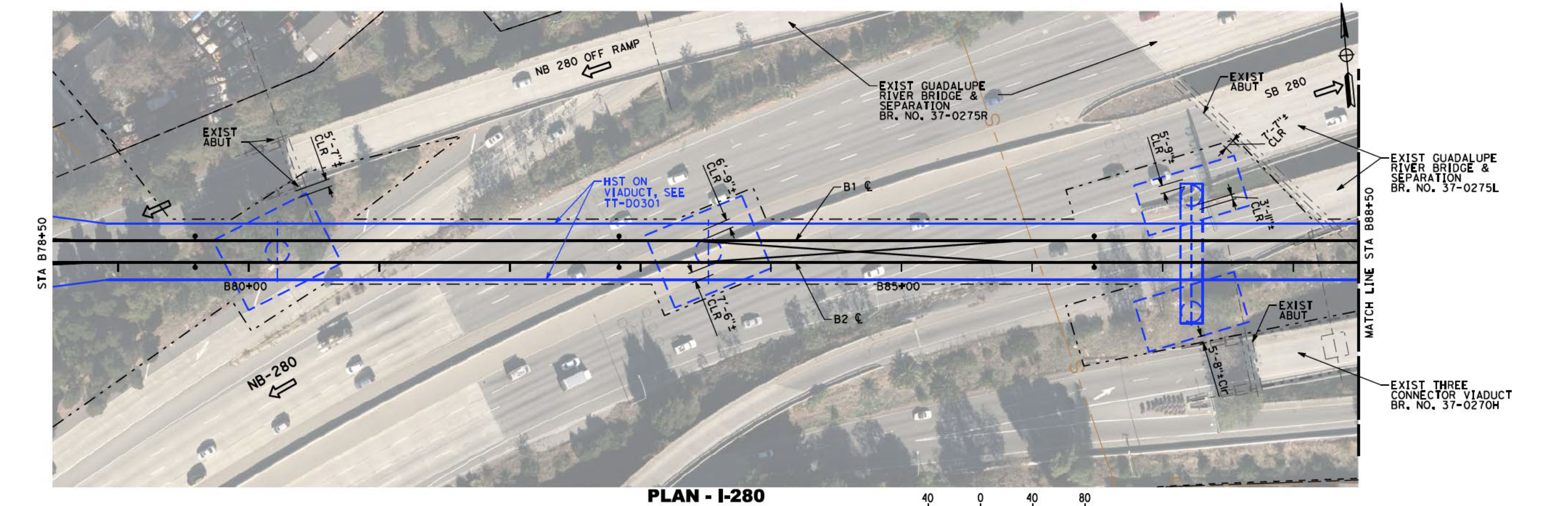
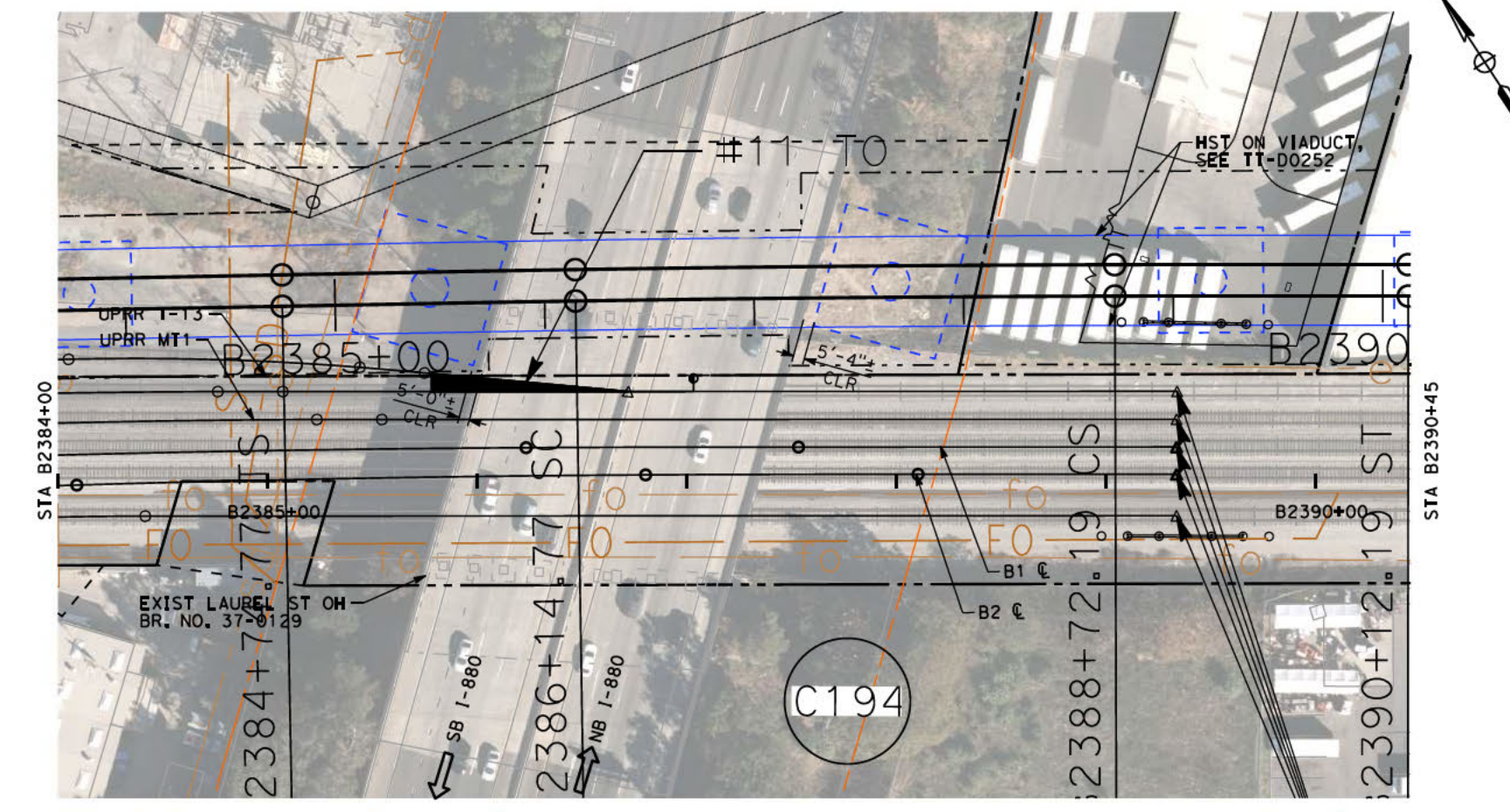
1111 Broadway  
 9th Floor  
 Oakland, CA 94607



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 SAN JOSE DIRIDON STATION APPROACH  
 VIADUCT TO I-880  
 TYPICAL SECTIONS  
 SHEET 3 OF 3

CONTRACT NO. HSR15-34  
 DRAWING NO. ST-V0303  
 SCALE AS SHOWN  
 SHEET NO.

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2021 RECORD SET PBD  
 NOVEMBER 30, 2021  
 NOT FOR CONSTRUCTION



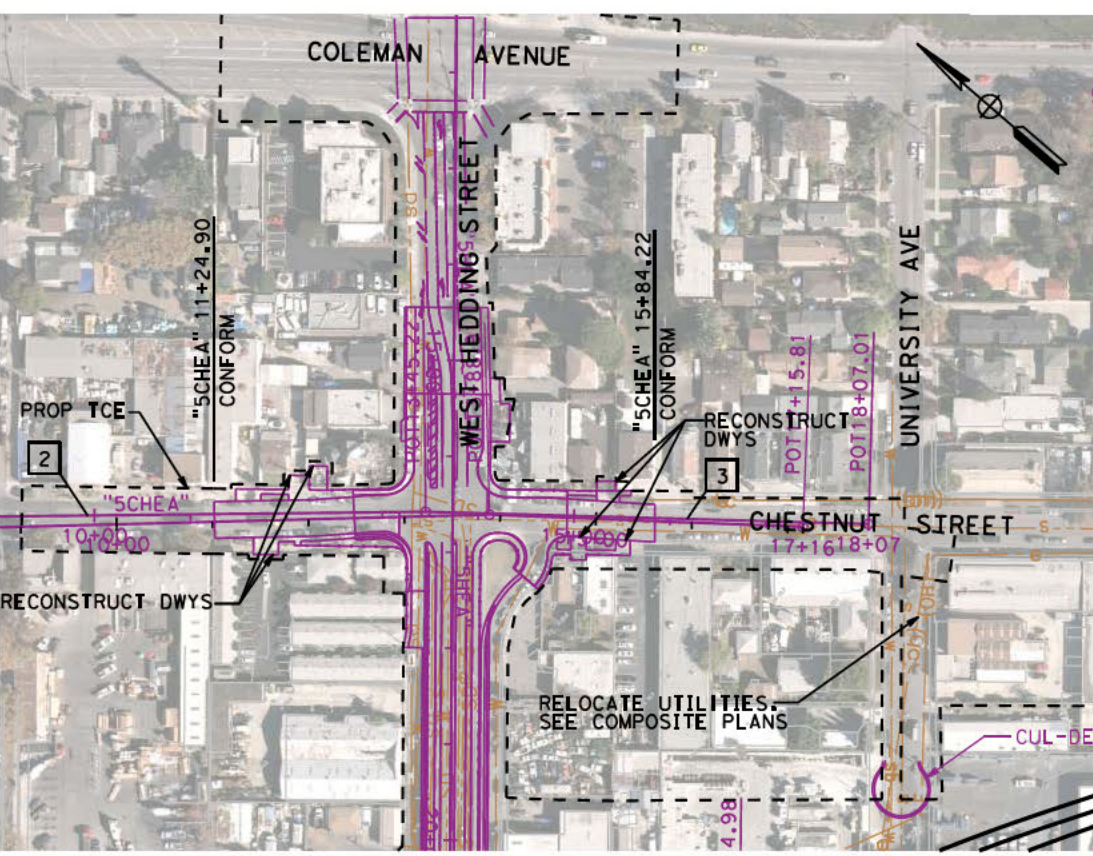
1111 Broadway  
 9th Floor  
 Oakland, CA 94607



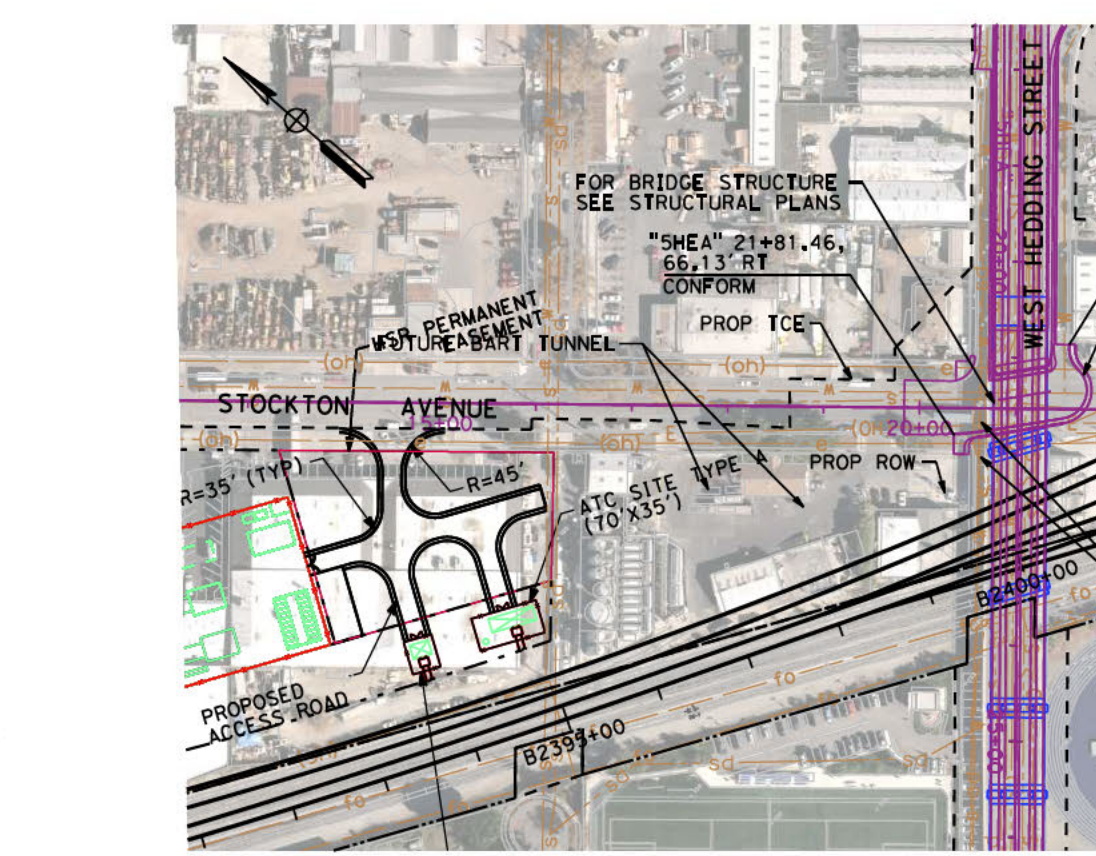
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 SAN JOSE DIRIDON STATION APPROACH  
 VIADUCT TO I-880  
 CALTRANS STRUCTURES  
 GENERAL PLAN

CONTRACT NO. HSR15-34  
 DRAWING NO. ST-T0301  
 SCALE AS SHOWN  
 SHEET NO.

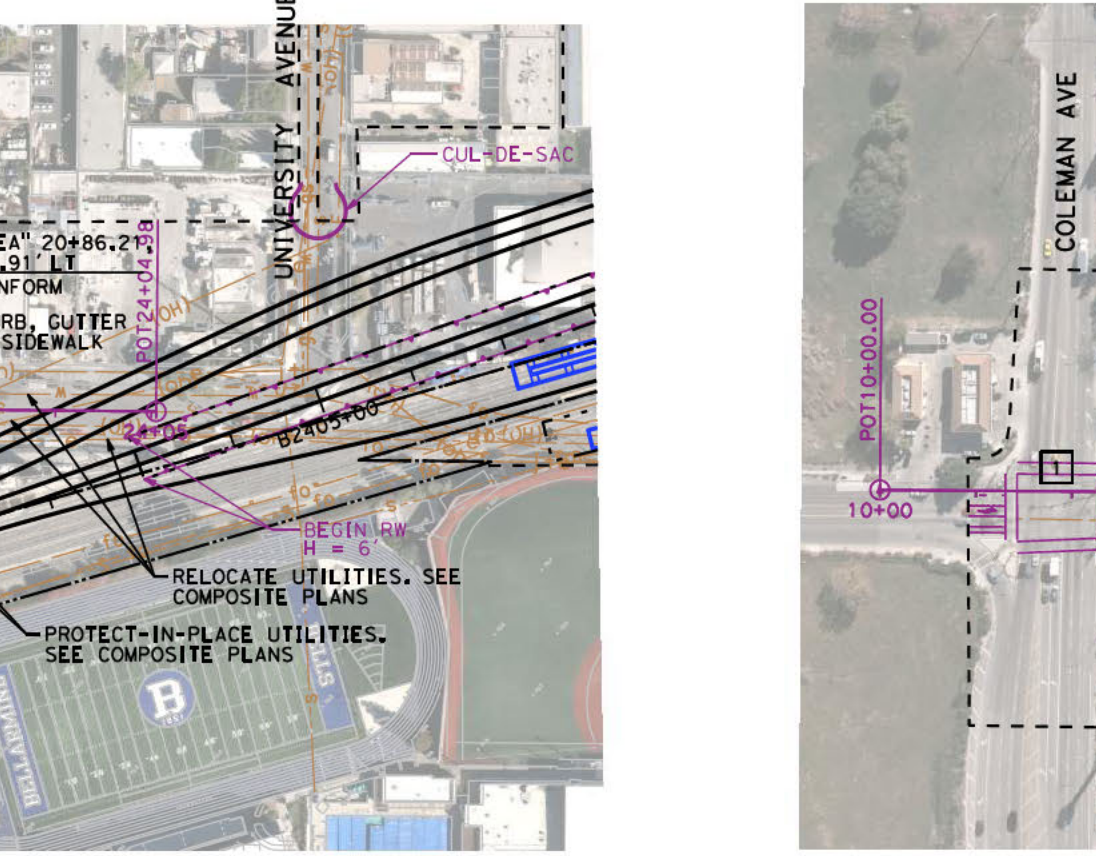
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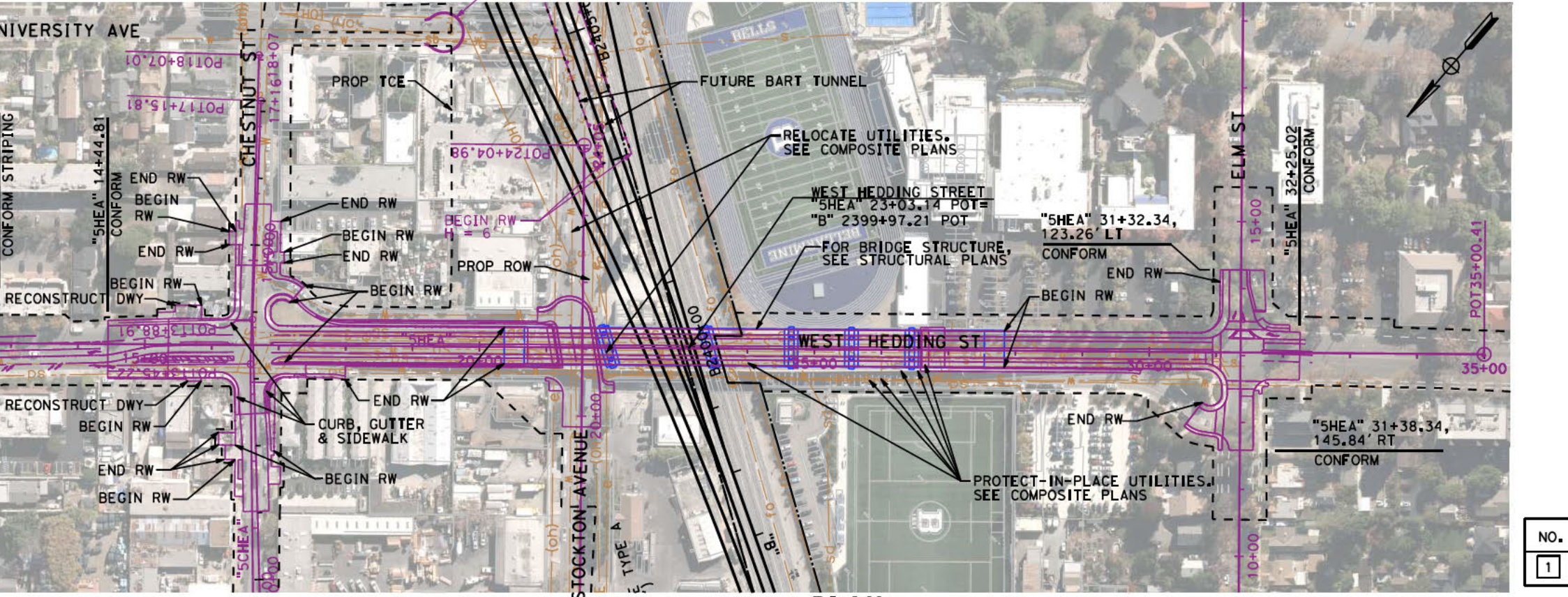
**PLAN**  
CHESTNUT AVENUE  
SCALE: 1"=200'



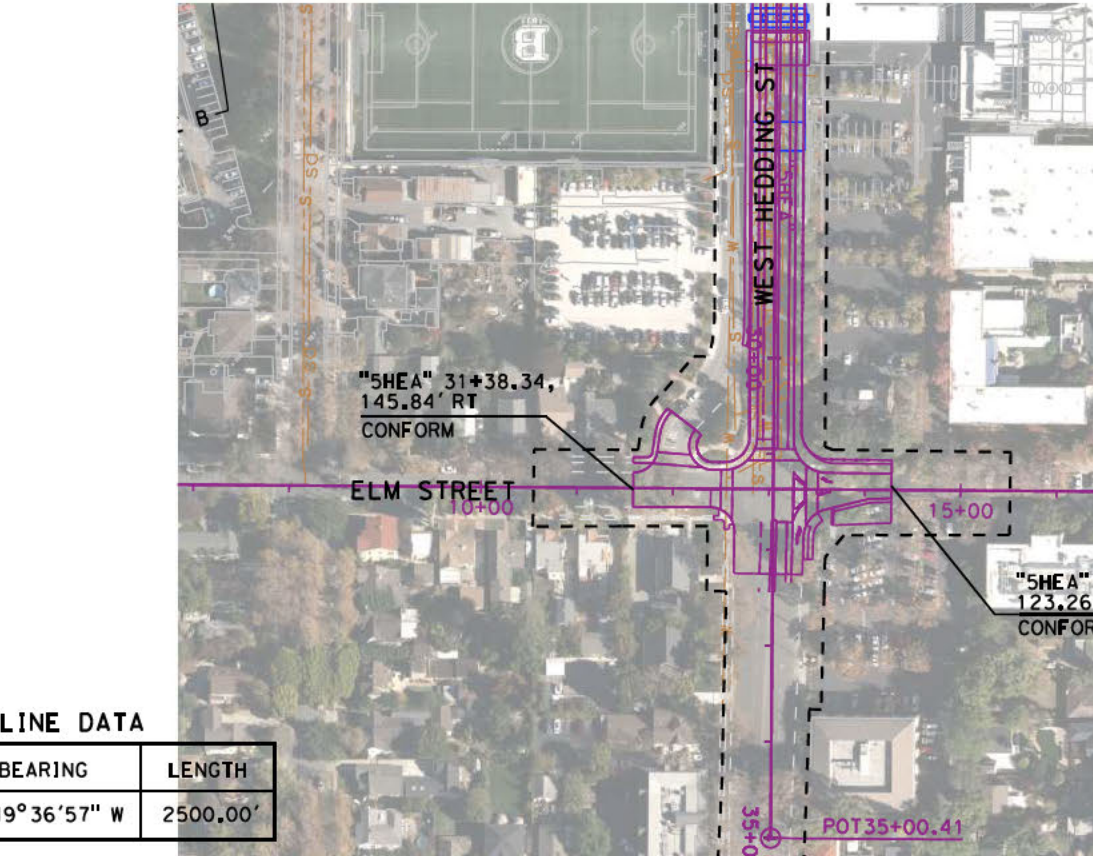
**PLAN**  
STOCKTON AVENUE  
SCALE: 1"=200'



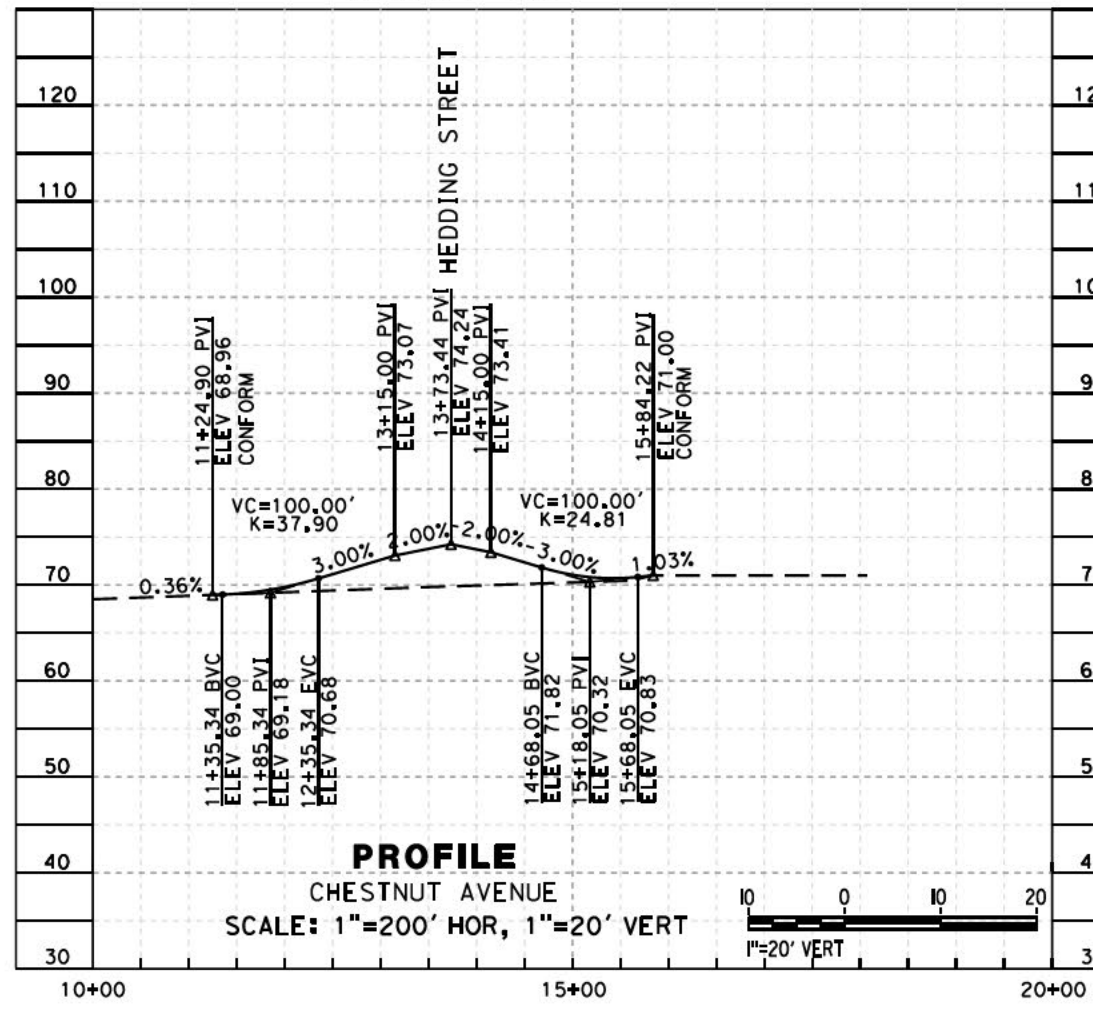
**PLAN**  
UNIVERSITY AVENUE  
SCALE: 1"=200'



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



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



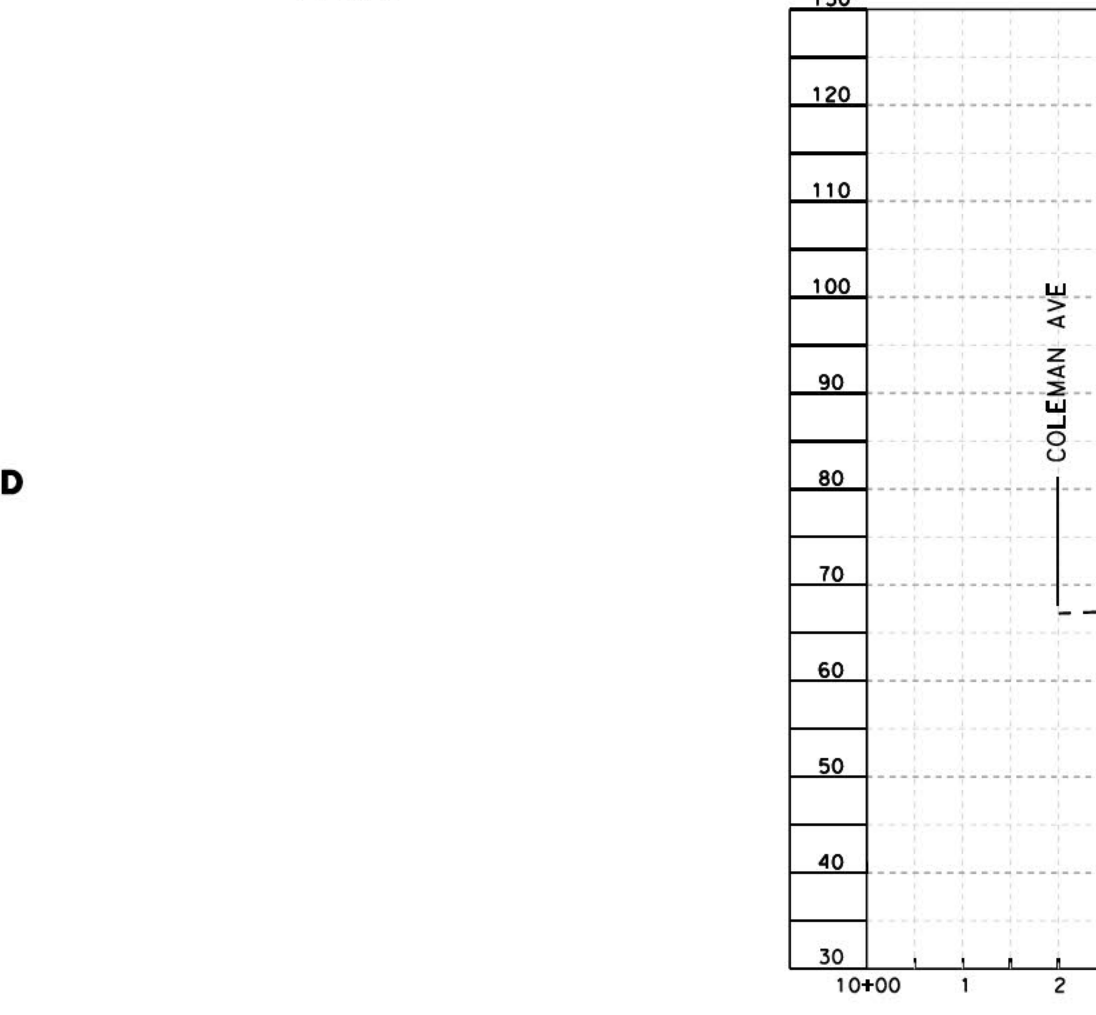
**PROFILE**  
CHESTNUT AVENUE  
SCALE: 1"=200' HOR, 1"=20' VERT

**LINE DATA**

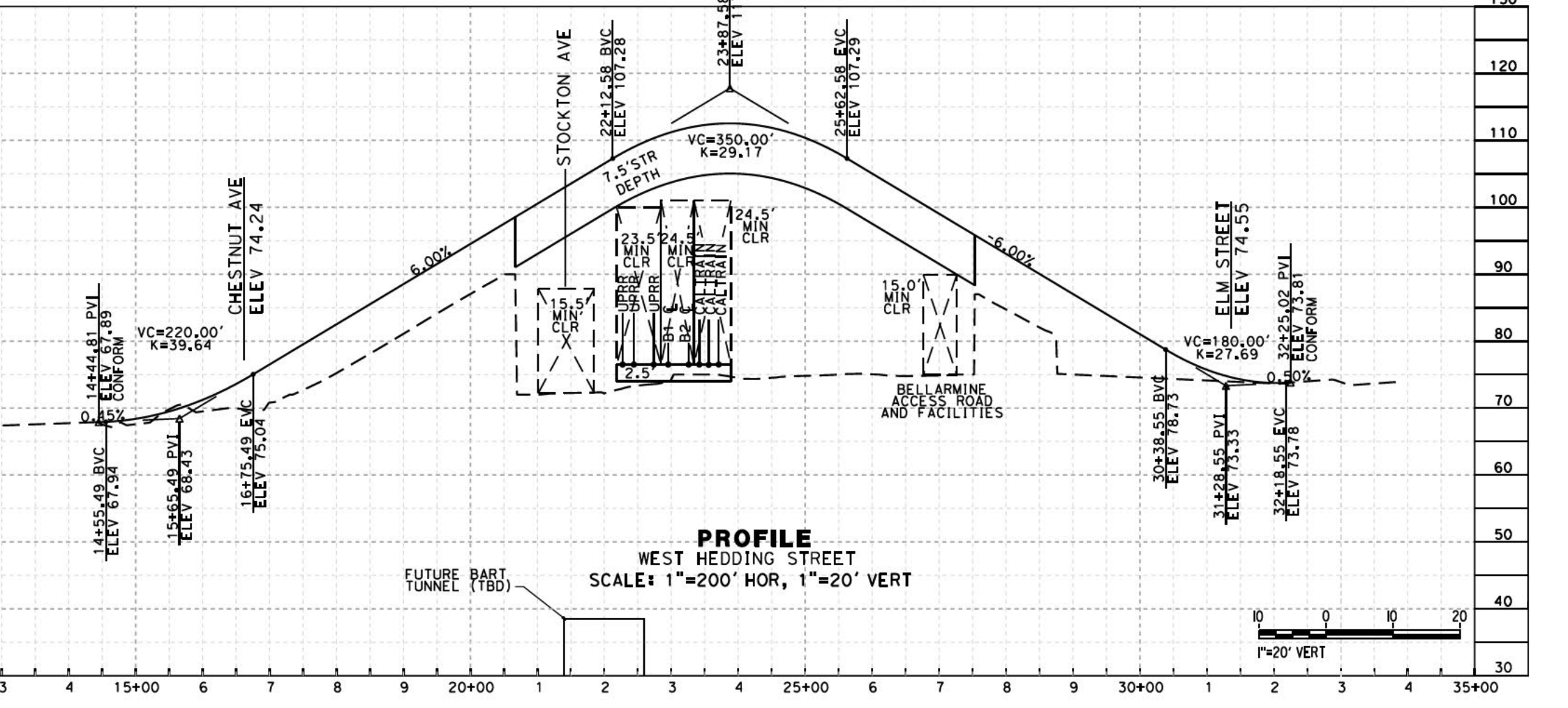
NO.	BEARING	LENGTH
2	S 41°26'58" E	595.22'
3	S 39°13'42" E	461.79'



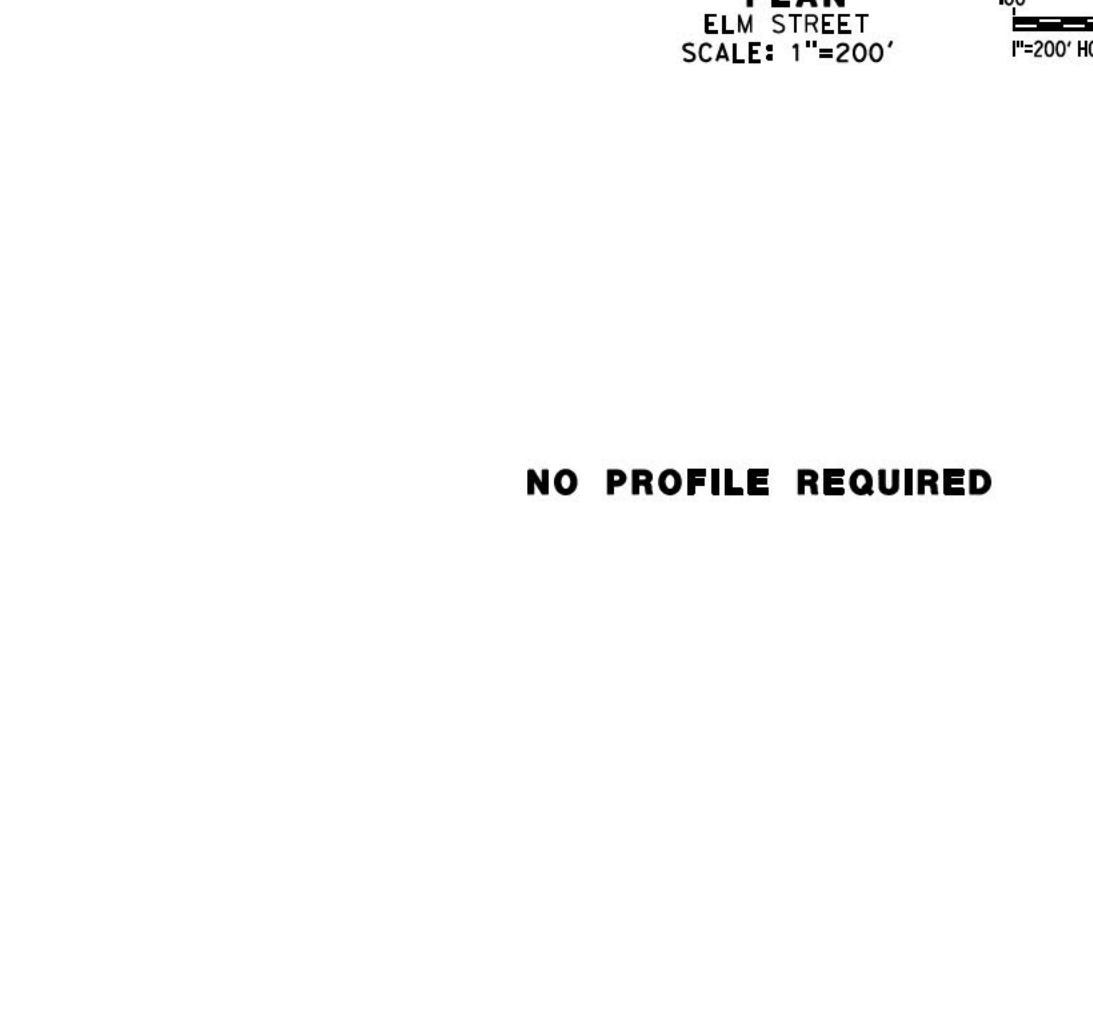
**PROFILE**  
STOCKTON AVENUE  
SCALE: 1"=200' HOR, 1"=20' VERT



**PROFILE**  
UNIVERSITY AVENUE  
SCALE: 1"=200' HOR, 1"=20' VERT



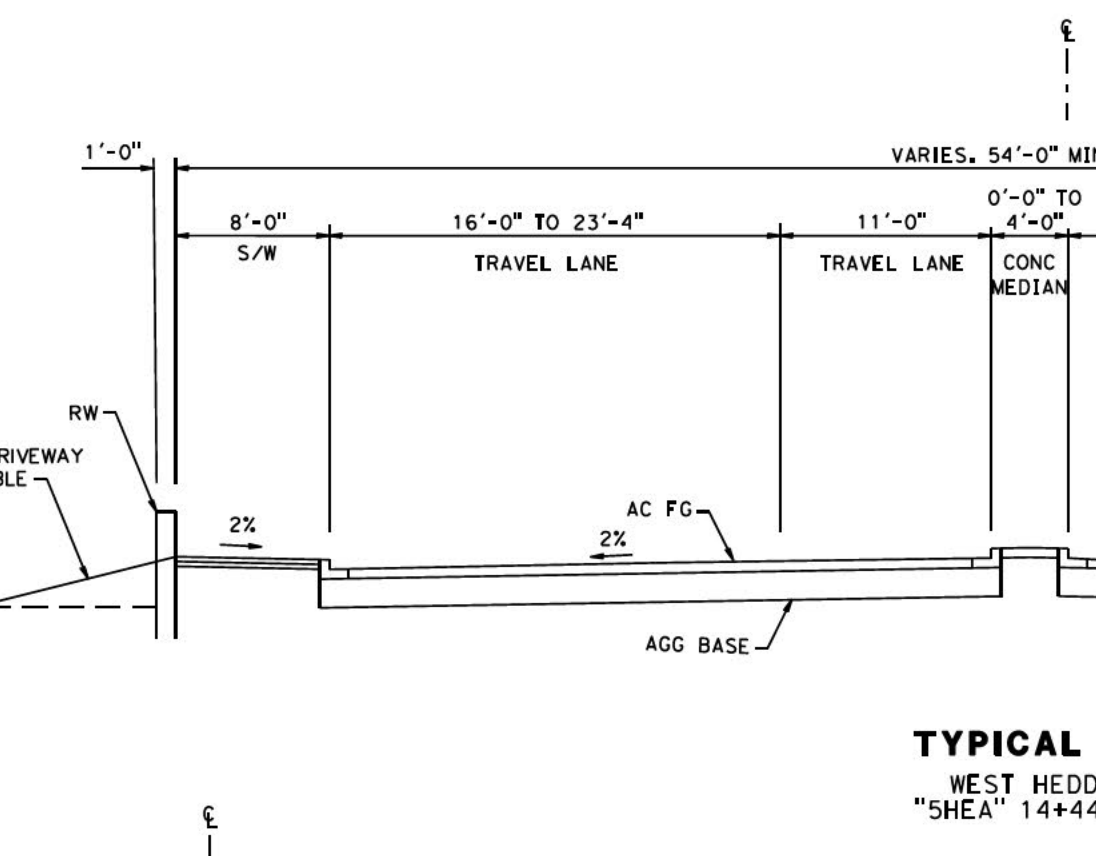
**PROFILE**  
ELM STREET  
SCALE: 1"=200' HOR, 1"=20' VERT



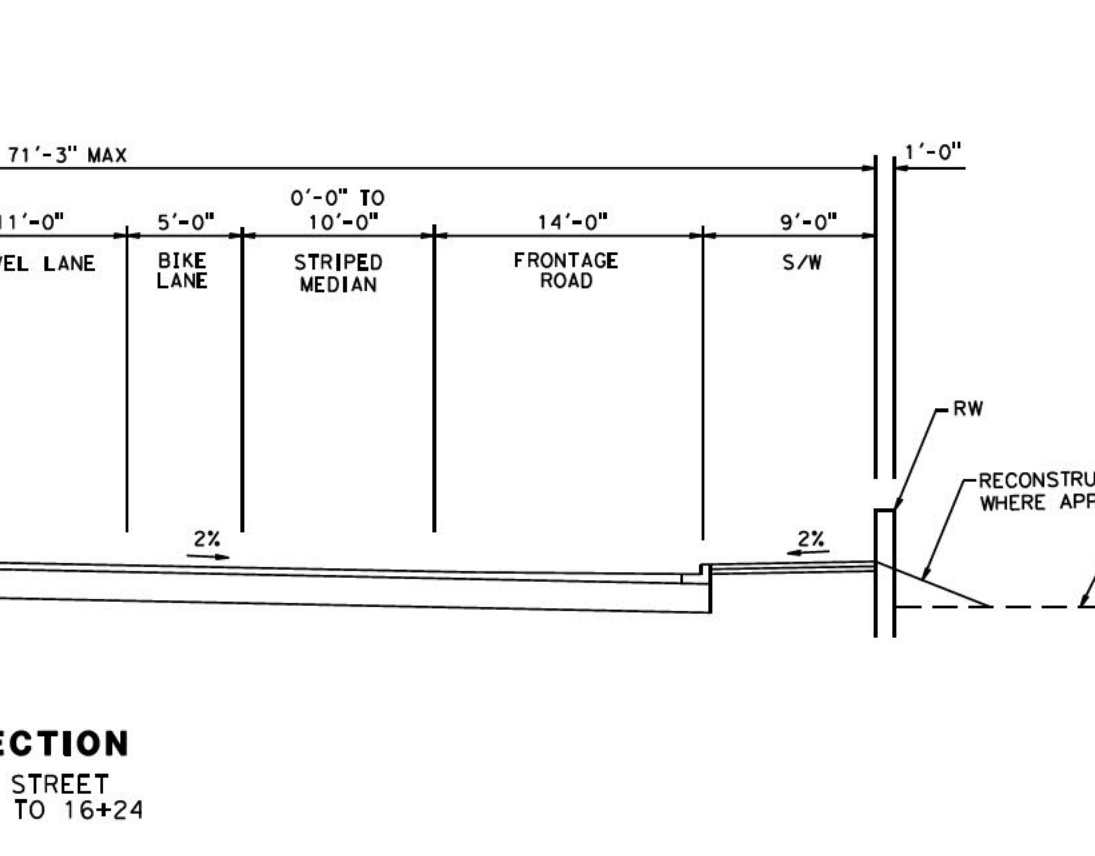
**PROFILE**  
CHESTNUT STREET  
SCALE: 1"=200' HOR, 1"=20' VERT



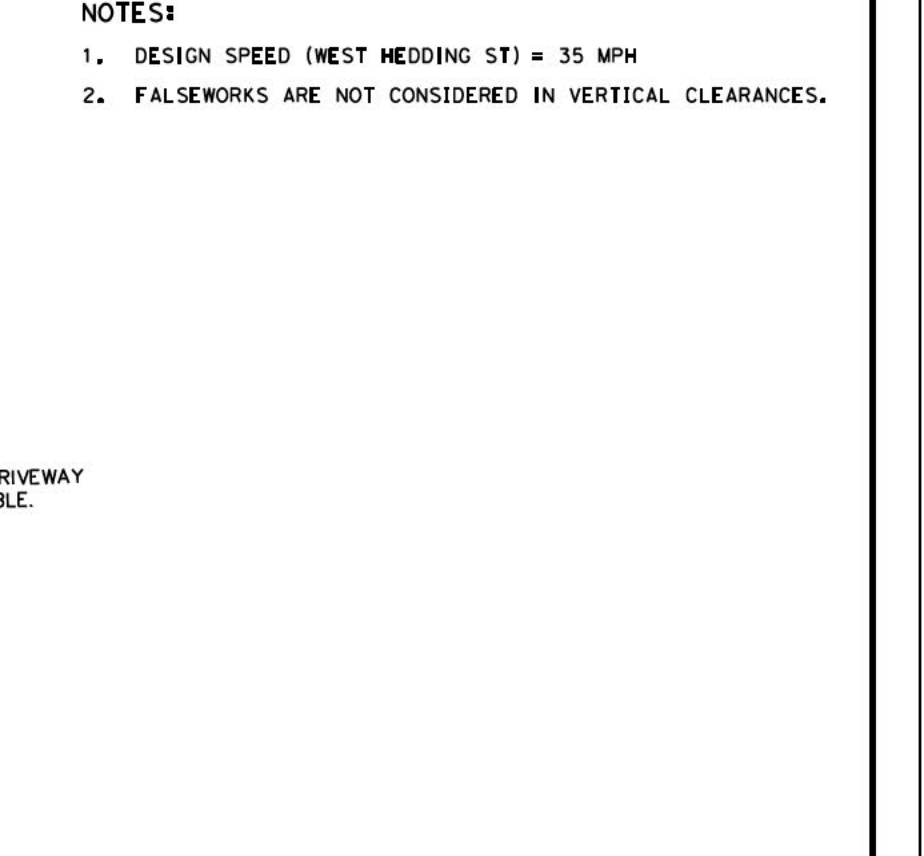
**TYPICAL SECTION**  
WEST HEDDING STREET  
"SHEA" 14+44.80 TO 16+24



**TYPICAL SECTION**  
WEST HEDDING STREET  
"SHEA" 16+79.36 TO 17+38.43



**TYPICAL SECTION**  
WEST HEDDING STREET  
"SHEA" 16+79.36 TO 17+99.39



**TYPICAL SECTION**  
WEST HEDDING STREET  
"SHEA" 17+38.43 TO 20+66.74



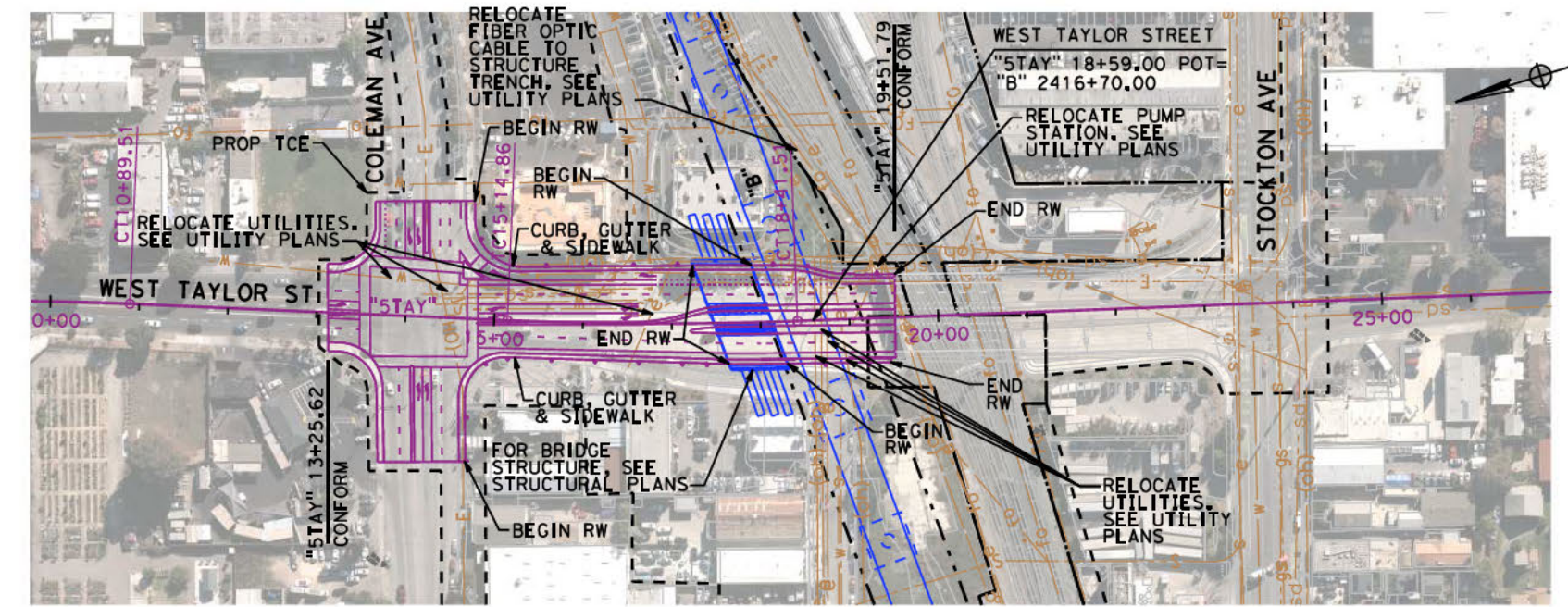
**TYPICAL SECTION**  
WEST HEDDING STREET  
"SHEA" 27+53.74 TO 31+08.97

- NOTES:**
- DESIGN SPEED (WEST HEDDING ST) = 35 MPH
  - FALSEWORKS ARE NOT CONSIDERED IN VERTICAL CLEARANCES.

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 107 OF 146**

<b>2021 RECORD SET PBD</b> NOVEMBER 30, 2021 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> SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-680 PLAN, PROFILE AND TYPICAL SECTIONS WEST HEDDING STREET	CONTRACT NO. HSR15-34 DRAWING NO. CV-T0151 SCALE AS SHOWN SHEET NO.
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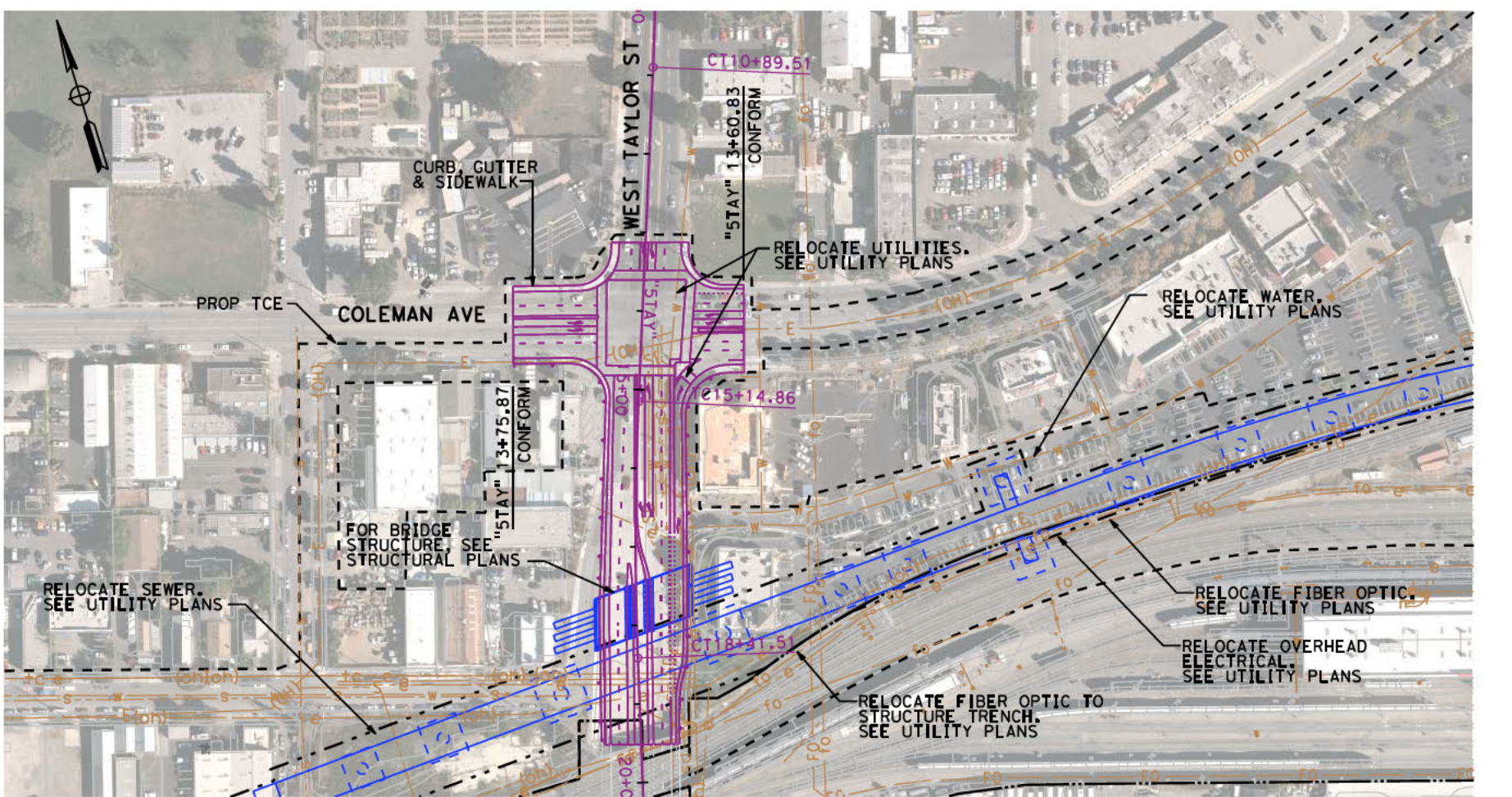
**PLAN**  
WEST TAYLOR ST  
SCALE: 1"=200'

**CURVE DATA**

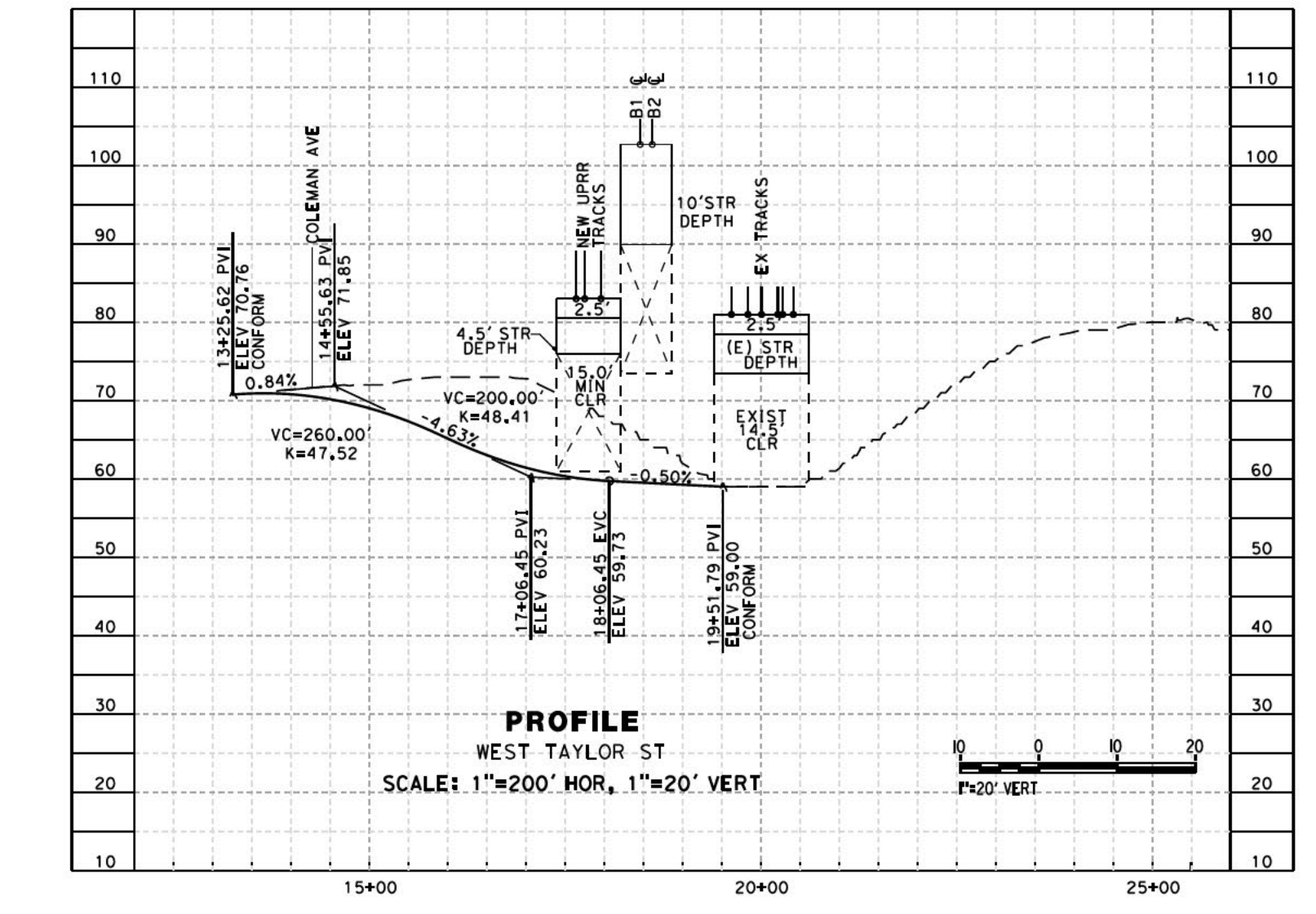
NO.	RADIUS	DELTA	TANGENT	LENGTH
①	3000.00'	4°07'59"	108.25'	216.41'
②	4000.00'	4°40'44"	163.42'	326.65'
③	3000.00'	1°22'41"	36.08'	72.16'

**LINE DATA**

NO.	BEARING	LENGTH
1	S 48°39'06" W	373.11'
2	S 52°47'05" W	425.35'
3	S 48°06'21" W	970.98'
4	S 49°29'03" W	615.19'

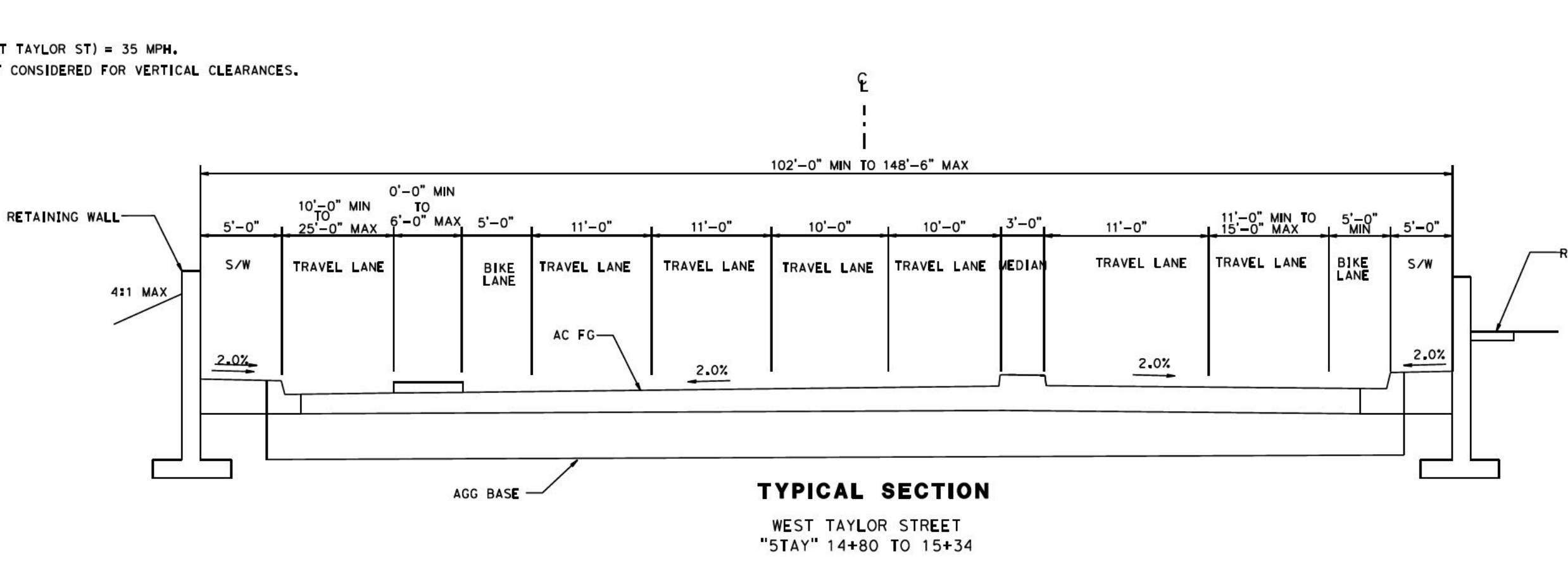


**PLAN**  
COLEMAN AVENUE  
SCALE: 1"=200'

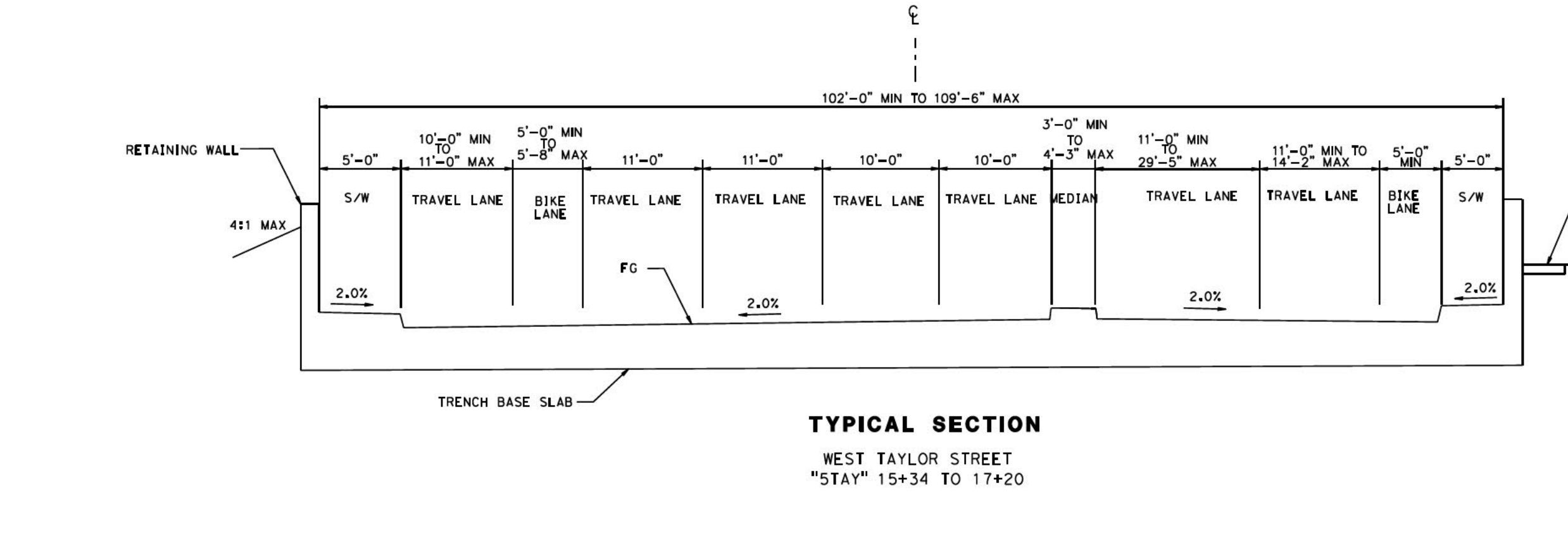


**PROFILE**  
WEST TAYLOR ST  
SCALE: 1"=200' HOR, 1"=20' VERT

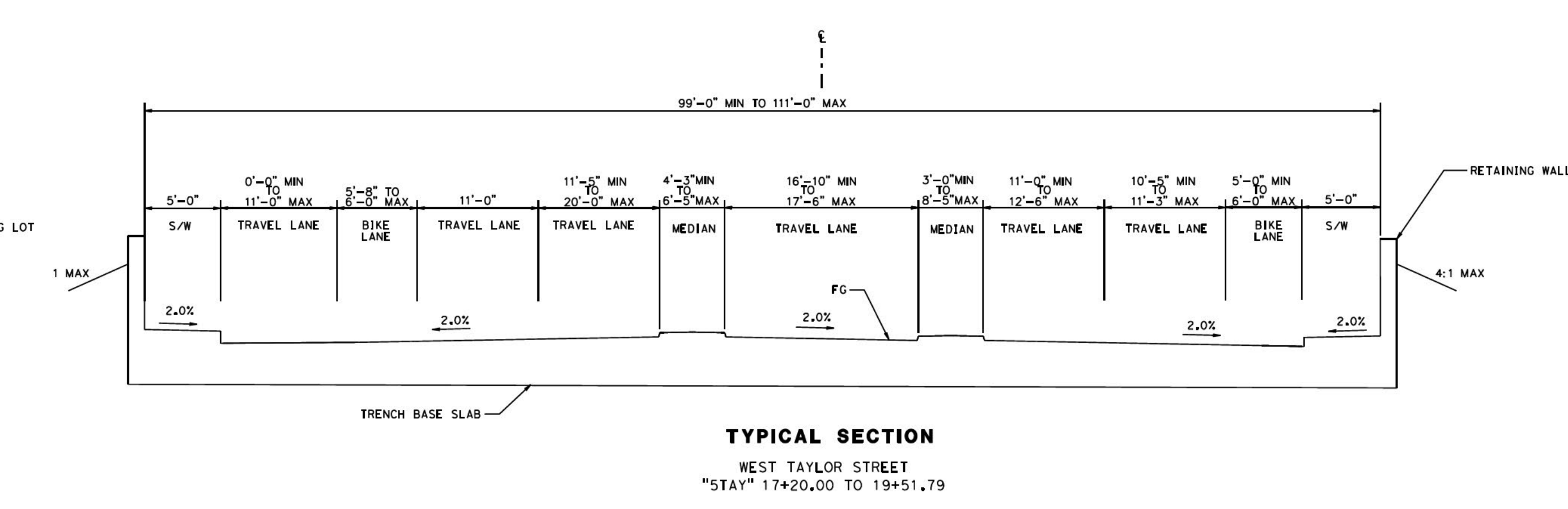
**NO PROFILE REQUIRED**



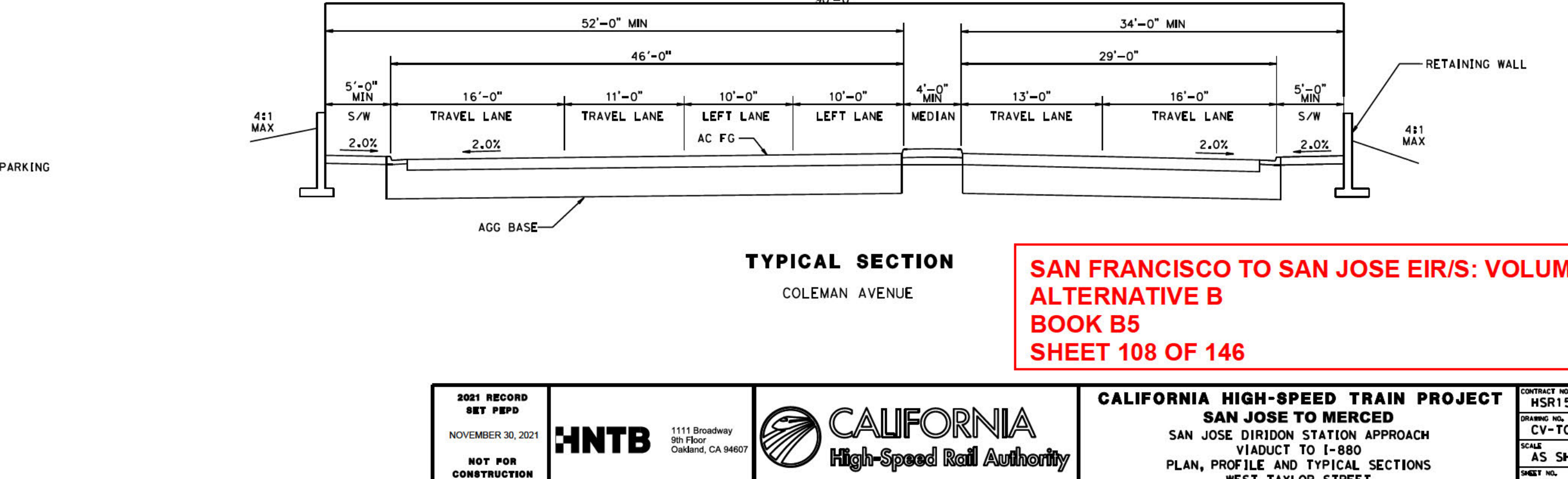
**TYPICAL SECTION**  
WEST TAYLOR STREET  
"STAY" 14+80 TO 15+34



**TYPICAL SECTION**  
WEST TAYLOR STREET  
"STAY" 15+34 TO 17+20



**TYPICAL SECTION**  
WEST TAYLOR STREET  
"STAY" 17+20.00 TO 19+51.79



**TYPICAL SECTION**  
COLEMAN AVENUE

**SAN FRANCISCO TO SAN JOSE EIR'S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 108 OF 146**

2021 RECORD SET P&P NOVEMBER 30, 2021 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 JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 PLAN, PROFILE AND TYPICAL SECTIONS WEST TAYLOR STREET	CONTRACT NO. HSR15-34 DRAWING NO. CV-T0152 SCALE AS SHOWN SHEET NO.
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11/23/2021 9:34:46 AM CAHSR.tbl cvd\_paf\_bw.plt c:\voad1\pwworkspace\joseph\pwworkspace\46037\_cahsr\dms18473\FJ-TT-B0101-JM.dgn

CURVE	ELEMENT	POINT TYPE	MT2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, Δ	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA) (IN)	UNBALANCED SUPERELEVATION (EU) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	Tangent	POB	2260+30.01	1958137.752	6137507.790									S 60°29'13" E		
	Tangent	PI	2301+23.27	1956121.329	6141069.924											
	Tangent	PI	2301+23.27	1956121.329	6141069.924									S 60°29'51" E		
	Tangent	TS	2324+15.29	1954992.594	6143064.748											
	Clothoid	TS	2324+15.29	1954992.594	6143064.748										S 60°29'51" E	S 60°27'06" E
	Clothoid	SPI	2324+68.63	1954966.330	6143111.166		80	0°02'45"	40	0.01						
	Clothoid	SC	2324+95.29	1954953.179	6143134.365											
	Arc	SC	2324+95.29	1954953.179	6143134.365											
C189	Arc	PI	2325+54.25	1954924.102	6143185.656	50000	117.92	0°08'06"			110	0.75	0.22			
	Arc	CC		1911456.208	6118476.435											
	Arc	CS	2326+13.21	1954894.905	6143236.878											
	Clothoid	CS	2326+13.21	1954894.905	6143236.878										S 60°18'59" E	S 60°16'14" E
	Clothoid	SPI	2326+39.88	1954881.699	6143260.046		80	0°02'45"	40	0.01						
	Clothoid	ST	2326+93.21	1954855.251	6143306.359											
	Tangent	ST	2326+93.21	1954855.251	6143306.359									S 60°16'14" E		
	Tangent	TS	2329+56.62	1954724.625	6143535.098											
	Clothoid	TS	2329+56.62	1954724.625	6143535.098										S 60°16'14" E	S 59°41'38" E
	Clothoid	SPI	2330+86.62	1954660.157	6143647.988		195	0°34'37"	97.5	0.16						
	Clothoid	SC	2331+51.62	1954627.357	6143704.106											
	Arc	SC	2331+51.62	1954627.357	6143704.106											
C190	Arc	PI	2333+47.66	1954528.430	6143873.356	9683.84	392.03	2°19'10"			110	2.25	2.75			
	Arc	CC		1946266.904	6138817.431											
	Arc	CS	2335+43.65	1954422.735	6144038.463											
	Clothoid	CS	2335+43.65	1954422.735	6144038.463										S 57°22'27" E	S 56°47'51" E
	Clothoid	SPI	2336+08.65	1954387.690	6144093.207		195	0°34'37"	97.5	0.16						
	Clothoid	ST	2337+38.65	1954316.502	6144201.984											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 109 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

**2021 RECORD SET**  
 NOVEMBER 30, 2021  
**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  
 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C189 AND C190

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0101-JM
SCALE	NONE
SHEET NO.	

11/23/2021 9:34:50 AM CAHSR.tbl c:\v\cadd\1b\p\w\hntb\josyang\46037\_cohsr\dms18473\F-J-TT-B0102-JM.dgn

CURVE	ELEMENT	POINT TYPE	MT2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, Δ	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA) (IN)	UNBALANCED SUPERELEVATION (EU) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	Tangent	ST	2337+38.65	1954316.502	6144201.984									S 56°47'51" E		
	Tangent	PI	2363+76.23	1952872.160	6146408.951											
	Tangent	PI	2363+76.23	1952872.160	6146408.951									S 56°48'33" E		
	Tangent	TS	2388+65.23	1951509.611	6148491.882											
	Clothoid	TS	2388+65.23	1951509.611	6148491.882										S 56°48'33" E	S 57°19'49" E
	Clothoid	SPI	2389+98.57	1951436.620	6148603.463		200	0°31'15"	100	0.15						
	Clothoid	SC	2390+65.23	1951400.634	6148659.583											
	Arc	SC	2390+65.23	1951400.634	6148659.583											
C191	Arc	PI	2392+92.09	1951278.175	6148850.552	11000	453.65	2°21'47"			110	2.00	2.40			
	Arc	CC		1960660.379	6154597.352											
	Arc	CS	2395+18.89	1951163.695	6149046.408											
	Clothoid	CS	2395+18.89	1951163.695	6149046.408										S 59°41'35" E	S 60°12'50" E
	Clothoid	SPI	2395+85.55	1951130.053	6149103.964		200	0°31'15"	100	0.15						
	Clothoid	ST	2397+18.89	1951063.817	6149219.682											
	Tangent	ST	2397+18.89	1951063.817	6149219.682									S 60°12'50" E		
	Tangent	TS	2424+18.11	1949722.946	6151562.302											
	Cosine	TS	2424+18.11	1949722.946	6151562.302										S 60°12'50" E	S 56°36'41" E
	Cosine	SPI	2427+09.75	1949578.067	6151815.418		415	3°36'10"	207.49	1.24						
	Cosine	SC	2428+33.11	1949510.131	6151918.493											
	Arc	SC	2428+33.11	1949510.131	6151918.493											
C192	Arc	PI	2431+48.33	1949336.657	6152181.693	3300	628.54	10°54'47"			75	3.50	3.32			
	Arc	CC		1946754.775	6150102.450											
	Arc	CS	2434+61.63	1949116.492	6152407.291											
	Cosine	CS	2434+61.63	1949116.492	6152407.291										S 45°41'54" E	S 42°05'44" E
	Cosine	SPI	2435+85.08	1949030.271	6152495.640		415	3°36'10"	207.49	1.24						
	Cosine	ST	2438+76.63	1948813.861	6152691.151											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 110 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

**2021 RECORD SET**  
NOVEMBER 30, 2021  
**NOT FOR CONSTRUCTION**

**HNTB**  
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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  
TRACK ALIGNMENT DATA TABLE  
CURVE NO. C191 AND C192

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0102-JM
SCALE	NONE
SHEET NO.	

11/23/2021 9:34:55 AM CAHSR.tbl cvd\_pdf\_bw.plt c:\vodd17b\pw\hntb\_josyang\46037\_cahsr\dms18473\FJT-TT-B0103-JM.dgn

CURVE	ELEMENT	POINT TYPE	MT2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, Δ	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA) (IN)	UNBALANCED SUPERELEVATION (EU) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	Tangent	ST	2438+76.63	1948813.861	6152691.151									S 42°05'44" E		
	Tangent	TS	2441+29.45	1948626.259	6152860.635											
	Cosine	TS	2441+29.45	1948626.259	6152860.635										S 42°05'44" E	S 35°00'43" E
	Cosine	SPI	2445+26.71	1948331.485	6153126.943		565	7°05'01"	282.44	3.31						
	Cosine	SC	2446+94.45	1948193.686	6153223.474											
	Arc	SC	2446+94.45	1948193.686	6153223.474											
C193	Arc	PI	2451+97.72	1947781.493	6153512.224	2285	990.72	24°50'31"			65	4.75	2.65			
	Arc	CC		1946882.673	6151351.986											
	Arc	CS	2456+85.09	1947286.131	6153601.085											
	Cosine	CS	2456+85.09	1947286.131	6153601.085										S 10°10'12" E	S 3°05'11" E
	Cosine	SPI	2458+53.34	1947120.528	6153630.792		565	7°05'01"	282.44	3.31						
	Cosine	ST	2462+50.09	1946723.849	6153652.180											
	Tangent	ST	2462+50.09	1946723.849	6153652.180									S 3°05'11" E		
	Tangent	POE	2481+32.12	1944844.556	6153753.509											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B5  
SHEET 111 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

**2021 RECORD SET PEPP**  
NOVEMBER 30, 2021  
**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  
TRACK ALIGNMENT DATA TABLE  
CURVE NO. C193

CONTRACT NO. HSR15-34
DRAWING NO. TT-B0103-JM
SCALE NONE
SHEET NO.

11/23/2021 9:34:58 AM CAHSR.tbl cvd\_paf\_bw.plt cfd.ctb jasyang 46037\_cahsr\_dms18473\JM-TT-B0104.dgn

CURVE	ELEMENT	POINT TYPE	B2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, Δ	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA) (IN)	UNBALANCED SUPERELEVATION (EU) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	TANGENT	POB	52+90.53	1944844.556	6153753.509									S 3°05'10.7" E		
	TANGENT	TS	56+04.15	1944531.398	6153770.394											
	CLOTHOID	TS	56+04.15	1944531.398	6153770.394										S 3°05'10.7" E	S 14°17'46.9" E
	CLOTHOID	SPI	59+04.75	1944231.231	6153786.579		450	11°12'36.2"	224.71	7.33						
	CLOTHOID	SC	60+54.15	1944085.344	6153823.755											
C101	ARC	SC	60+54.15	1944085.344	6153823.755											
	ARC	PI	67+04.25	1943455.376	6153984.289	1150	1183.02	58°57'33.7"			50	6.00	2.70			
	ARC	CC		1944369.322	6154938.141											
	ARC	CS	72+37.16	1943268.082	6154606.825											
	CLOTHOID	CS	72+37.16	1943268.082	6154606.825										S 73°15'20.6" E	S 84°27'56.8" E
	CLOTHOID	SPI	73+87.71	1943224.709	6154750.991		450	11°12'36.2"	224.71	7.33						
	CLOTHOID	ST	76+87.16	1943195.718	6155050.194											
	TANGENT	ST	76+87.16	1943195.718	6155050.194									S 84°27'56.8" E		
	TANGENT	TS	89+72.12	1943071.797	6156329.158											
	CLOTHOID	TS	89+72.12	1943071.797	6156329.158										S 84°27'56.8" E	S 73°15'20.6" E
	CLOTHOID	SPI	92+72.72	1943042.806	6156628.360		450	11°12'36.2"	224.71	7.33						
	CLOTHOID	SC	94+22.12	1942999.433	6156772.526											
C102	ARC	SC	94+22.12	1942999.433	6156772.526											
	ARC	PI	99+88.42	1942836.280	6157314.821	1150	1052.11	52°26'05.9"			50	6.00	2.70			
	ARC	CC		1941898.193	6156441.211											
	ARC	CS	104+74.22	1942306.955	6157516.112											
	CLOTHOID	CS	104+74.22	1942306.955	6157516.112										S 20°49'14.7" E	S 9°36'38.5" E
	CLOTHOID	SPI	106+24.77	1942166.238	6157569.624		450	11°12'36.2"	224.71	7.33						
	CLOTHOID	ST	109+24.22	1941869.853	6157619.811											
	TANGENT	ST	109+24.22	1941869.853	6157619.811									S 9°36'38.5" E		
	TANGENT	TS	111+48.03	1941649.186	6157657.176											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 112 OF 146**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

**2021 RECORD SET**  
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CALIFORNIA

High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 SAN JOSE DIRIDON STATION APPROACH  
 VIADUCT TO I-880  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C101 AND C102

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0104
SCALE	NONE
SHEET NO.	

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CURVE	ELEMENT	POINT TYPE	B2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, Δ	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA) (IN)	UNBALANCED SUPERELEVATION (EU) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	CLOTHOID	TS	111+48.03	1941649.186	6157657.176										S 9°36'38.5" E	S 17°34'06.4" E
	CLOTHOID	SPI	114+81.70	1941320.199	6157712.883		500	7°57'27.9"	249.84	5.78						
	CLOTHOID	SC	116+48.03	1941161.013	6157763.284											
C103	ARC	SC	116+48.03	1941161.013	6157763.284											
	ARC	PI	117+96.77	1941019.211	6157808.180	1800	296.77	9°26'51.3"			58	6.00	1.48			
	ARC	CC		1941704.334	6159479.326											
	ARC	CS	119+44.80	1940886.702	6157875.743											
	CLOTHOID	CS	119+44.80	1940886.702	6157875.743										S 27°00'57.8" E	S 34°58'25.7" E
	CLOTHOID	SPI	121+11.77	1940737.949	6157951.589		500	7°57'27.9"	249.84	5.78						
	CLOTHOID	ST	124+44.80	1940464.534	6158142.850											
	TANGENT	ST	124+44.80	1940464.534	6158142.850									S 34°58'25.7" E		
	TANGENT	TS	127+17.50	1940241.081	6158299.162											
	COSINE	TS	127+17.50	1940241.081	6158299.162										S 34°58'25.7" E	S 34°03'45.1" E
	COSINE	SPI	129+52.18	1940048.776	6158433.684		334	0°54'40.6"	167	0.25						
	COSINE	SC	130+51.50	1939966.497	6158489.312											
C104	ARC	SC	130+51.50	1939966.497	6158489.312											
	ARC	PI	132+06.20	1939838.336	6158575.962	10500	309.38	1°41'17.7"			95	2.00	1.44			
	ARC	CC		1934085.477	6149790.830											
	ARC	CS	133+60.88	1939707.678	6158658.797											
	COSINE	CS	133+60.88	1939707.678	6158658.797										S 32°22'27.4" E	S 31°27'46.8" E
	COSINE	SPI	134+60.20	1939623.796	6158711.978		334	0°54'40.6"	167	0.25						
	COSINE	ST	136+94.88	1939423.615	6158834.471											
	TANGENT	ST	136+94.88	1939423.615	6158834.471									S 31°27'46.8" E		
	TANGENT	POE	149+99.26 = 150+00.00	1938311.012	6159515.287											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B5**  
**SHEET 113 OF 146**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN JOSE TO MERCED**  
 MONTEREY CORRIDOR  
 VIADUCT TO I-880  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C103 AND C104

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0105
SCALE	NONE
SHEET NO.	