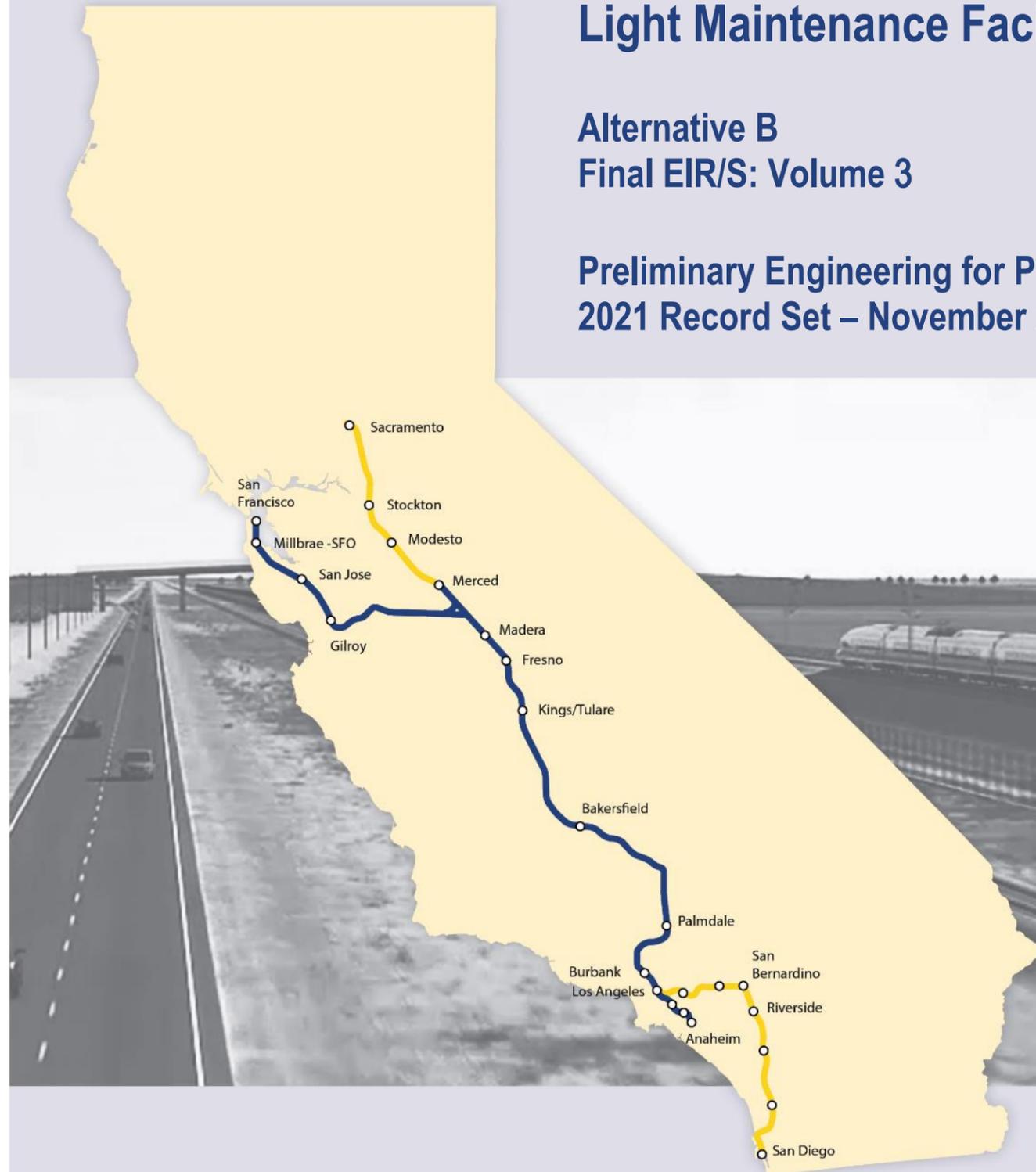


# San Francisco to San Jose Project Section

## Light Maintenance Facility; and Track Guideway Horizontal Alignment Data Table

Alternative B  
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 B4  
SHEET 51 TO 82 OF 146**

**ALTERNATIVE B - SAN FRANCISCO TO SAN JOSE (4TH/KING TO SCOTT BOULEVARD)**

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 B4	A	COVER		4TH & KING TO SCOTT BLVD	ALTERNATIVE B	ALTERNATIVE A	
BOOK B4	B	GE-A2104	ENTIRE ALTERNATIVE	MAINTENANCE, ALIGNMENT DATA TABLE	INDEX OF DRAWINGS	SHEET 4 OF 6	
BOOK B4	C	GE-D2101	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	SHEET 1 OF 4
BOOK B4	D	GE-D2102	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	SHEET 2 OF 4
BOOK B4	E	GE-D2103	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	SHEET 3 OF 4
BOOK B4	F	GE-D2104	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	SHEET 4 OF 4
BOOK B4	G	GE-D2105	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	SYSTEM SITES	

**LIGHT MAINTENANCE FACILITY**

BOOK B4	51	MY-C0201	ALTERNATIVE B	N/A	BRISBANE LIGHT MAINTENANCE FACILITY WEST	COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	
BOOK B4	52	MY-C0202	ALTERNATIVE B	N/A	BRISBANE LIGHT MAINTENANCE FACILITY WEST	COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	
BOOK B4	53	MY-C0203	ALTERNATIVE B	N/A	BRISBANE LIGHT MAINTENANCE FACILITY WEST	COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	
BOOK B4	54	MY-C0204	ALTERNATIVE B	N/A	BRISBANE LIGHT MAINTENANCE FACILITY WEST	COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	
BOOK B4	55	MY-C0205	ALTERNATIVE B	N/A	BRISBANE LIGHT MAINTENANCE FACILITY WEST	COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	
BOOK B4	56	MY-C0206	ALTERNATIVE B	N/A	BRISBANE LIGHT MAINTENANCE FACILITY WEST	COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	
BOOK B4	57	MY-C0207	ALTERNATIVE B	N/A	BRISBANE LIGHT MAINTENANCE FACILITY WEST	COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	

**TRACK GUIDEWAY HORIZONTAL ALIGNMENT DATA TABLE**

BOOK B4	58	TT-B0001	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C103 TO C106	
BOOK B4	59	TT-B0002	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C107 TO C109	
BOOK B4	60	TT-B0003	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C110 TO C112	
BOOK B4	61	TT-B0051	ALTERNATIVE B	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C201 TO C204	
BOOK B4	62	TT-B0052	ALTERNATIVE B	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C205 TO C207	
BOOK B4	63	TT-B0005	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C118 TO C120	
BOOK B4	64	TT-B0006	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C121 TO C124	
BOOK B4	65	TT-B0007	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C125 TO C128	
BOOK B4	66	TT-B0008	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C129 TO C131	
BOOK B4	67	TT-B0009	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C132	
BOOK B4	68	TT-B0010	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C133 TO C137	
BOOK B4	69	TT-B0052	ALTERNATIVE B	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C205 TO C207	
BOOK B4	70	TT-B0053	ALTERNATIVE B	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C208 TO C211	
BOOK B4	71	TT-B0054	ALTERNATIVE B	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C212 TO C215	
BOOK B4	72	TT-B0055	ALTERNATIVE B	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C216 TO C218	
BOOK B4	73	TT-B0015	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C154 TO C156	
BOOK B4	74	TT-B0016	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C157 TO C160	
BOOK B4	75	TT-B0017	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C161 TO C163	
BOOK B4	76	TT-B0018	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C164 TO C167	
BOOK B4	77	TT-B0019	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C168 TO C171	
BOOK B4	78	TT-B0020	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C173 TO C175	
BOOK B4	79	TT-B0021	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C176 TO C179	
BOOK B4	80	TT-B0022	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C180 TO C183	
BOOK B4	81	TT-B0023	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C184 TO C187	
BOOK B4	82	TT-B0024	ALTERNATIVE A	N/A	B2 TRACK ALIGNMENT DATA TABLE	CURVE NO. C188	

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B4  
SHEET B**

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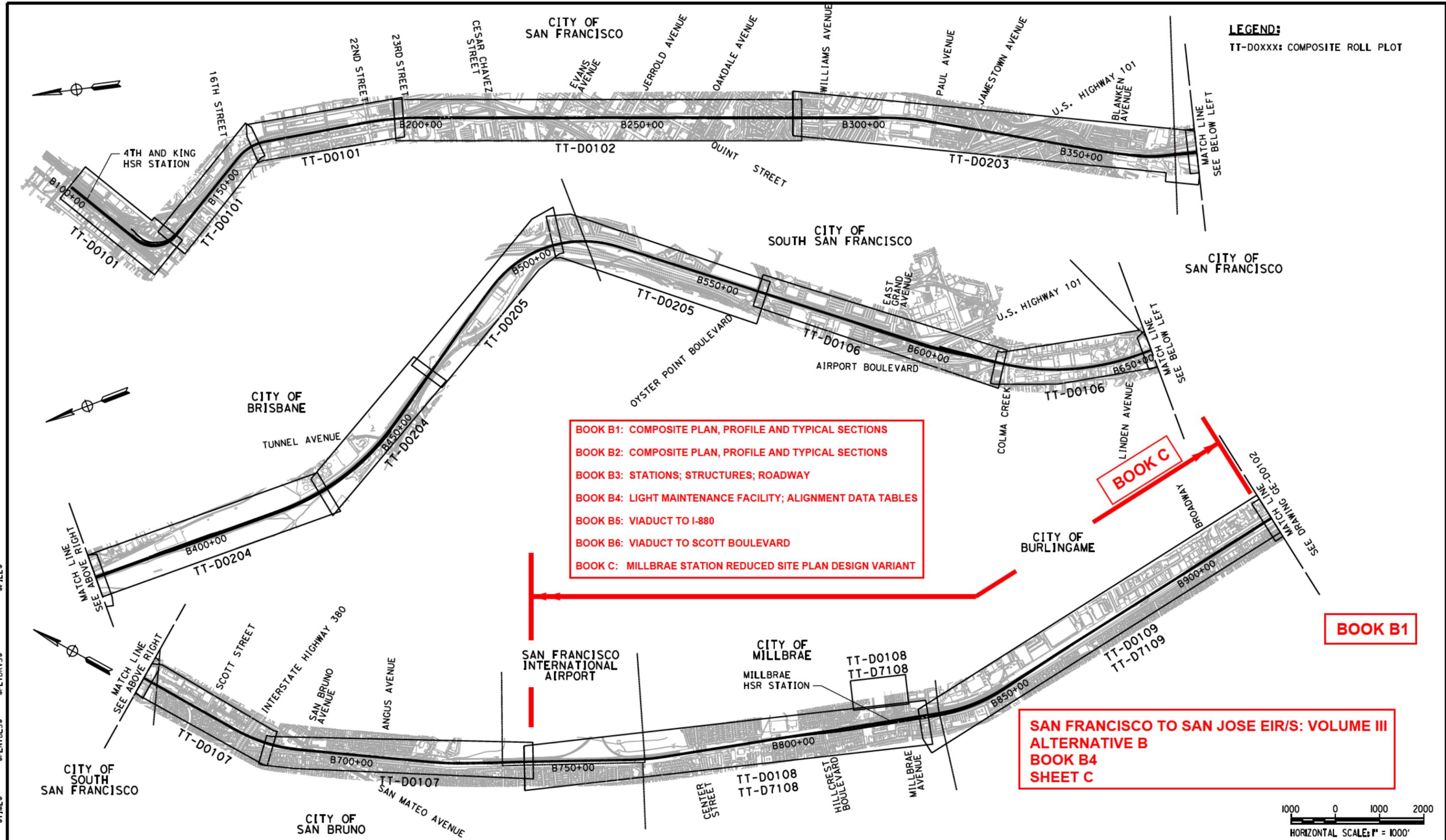
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
SAN FRANCISCO TO SAN JOSE**  
ALTERNATIVE B  
INDEX OF DRAWINGS  
SHEET 4 OF 6

CONTRACT NO.	HSR15-34
DRAWING NO.	GE-A2104
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**

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET C**

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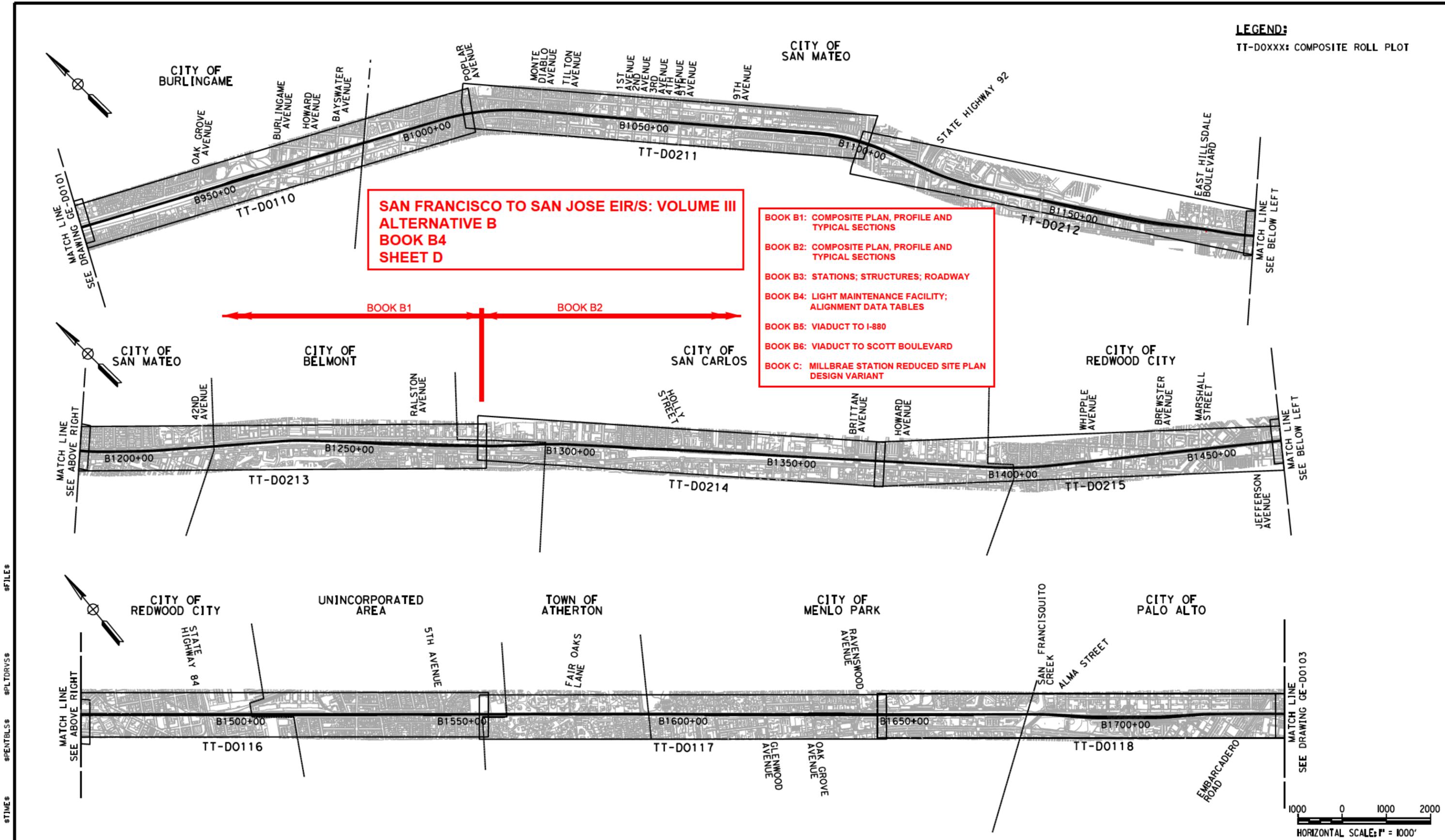
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 KEY MAP  
 COMPOSITE PLAN  
 SHEET 1 OF 4

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

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**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
ALTERNATIVE B  
BOOK B4  
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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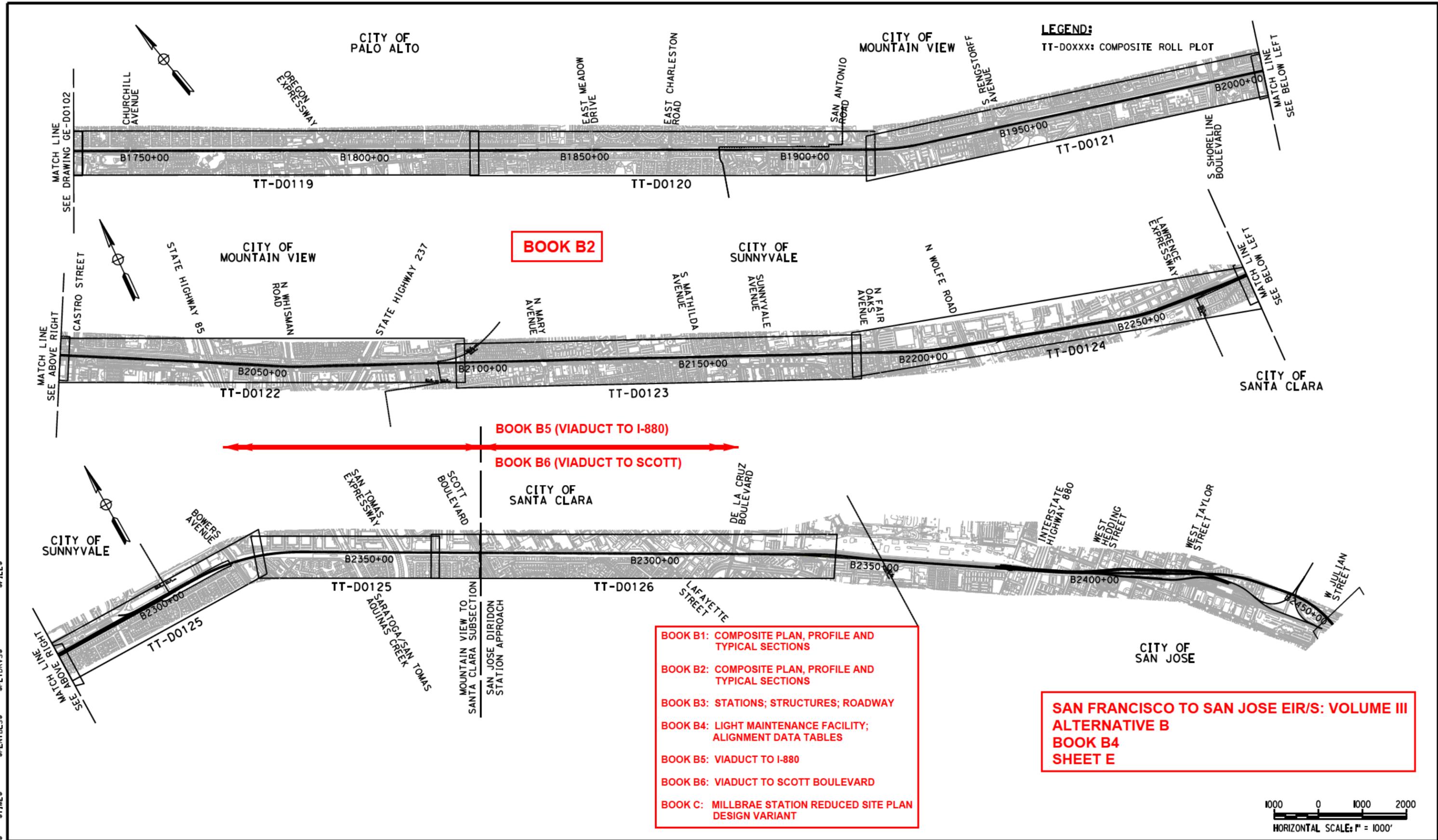
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
ALTERNATIVE B  
KEY MAP  
COMPOSITE PLAN  
SHEET 2 OF 4

CONTRACT NO.	HSR15-34
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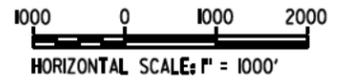


**LEGEND:**  
TT-DOXXX: COMPOSITE ROLL PLOT

**BOOK B2**

- 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 B4  
SHEET E**



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**CALIFORNIA**  
High-Speed Rail Authority

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

CONTRACT NO.	HSR15-34
DRAWING NO.	GE-D2103
SCALE	AS SHOWN
SHEET NO.	

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

**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 B4  
 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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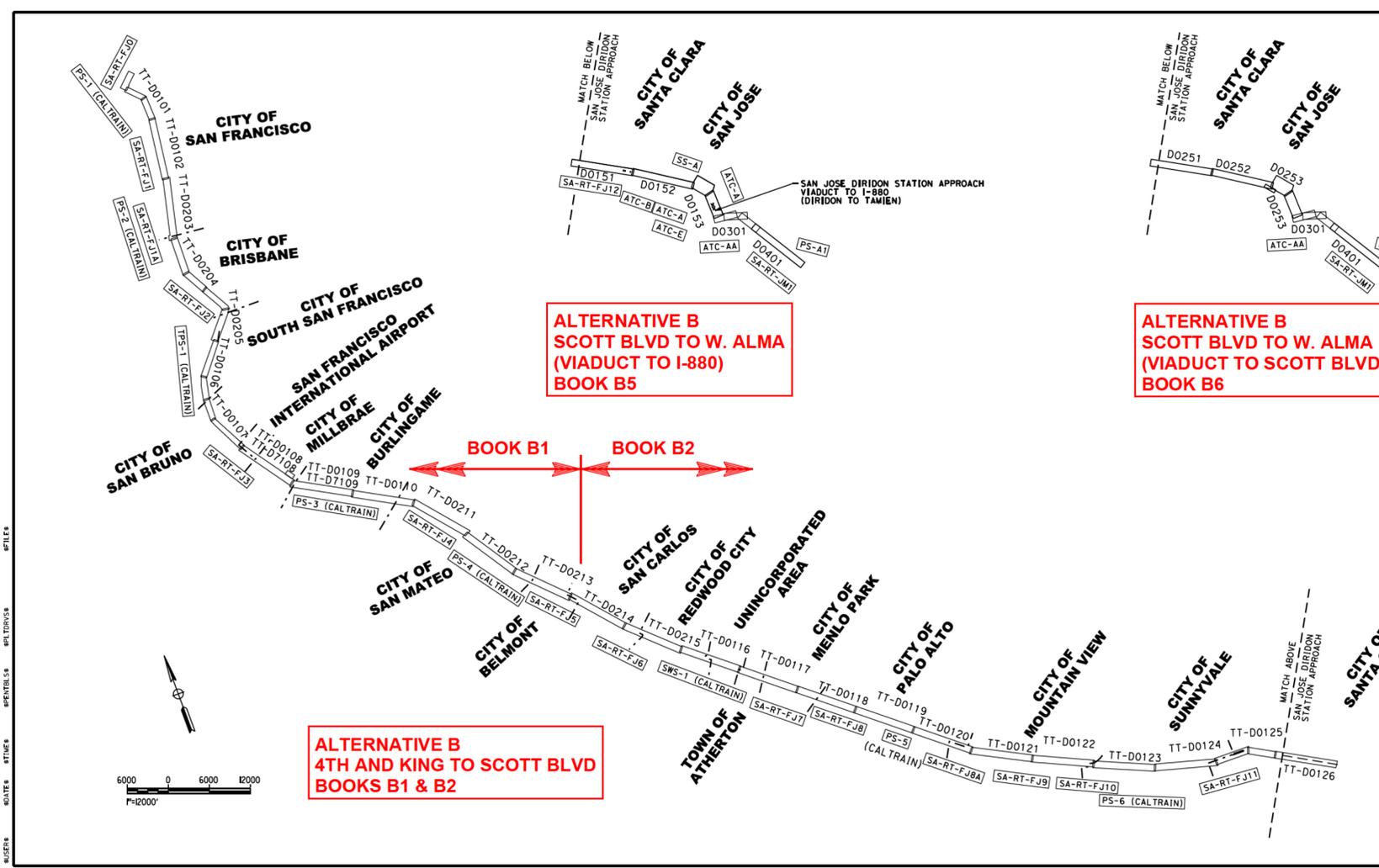
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 KEY MAP  
 COMPOSITE PLAN  
 SHEET 4 OF 4

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



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

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

**ALTERNATIVE B  
4TH AND KING TO SCOTT BLVD  
BOOKS B1 & B2**

**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				
169+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	2.50	Jerrold Ave
						to RT 4th & King Sta	1.57	
						to RT PS-1	2.81	
258+78						Stand Alone Radio Tower FJ1 - Alt 2	2.81	Newcomb Ave
						to RT 4th & King Sta	1.82	
						to RT PS-1	1.82	
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
						to SA-RT FJ1 - Alt 1	2.14	
						to SA-RT FJ1 - Alt 2	1.89	
366+50	Bayshore PS-2 (Caltrain)							Recycle Road
								Co-locate SAR at Caltrain site
467+30						Stand Alone Radio Tower FJ2 - Alt 1	2.06	Bayshore Boulevard
						to SA-RT FJ1A		
476+65						Stand Alone Radio Tower FJ2 - Alt 2	2.24	Bayshore Boulevard
						to SA-RT FJ1A		
539+86				STATION EQUATION STA B539+85.68 = STA B545+00.00				
				End of Alternative B - West Brisbane. Conform with Alternative A.				
542+50								Grand Ave
585+00	South San Francisco TPS-1 (Caltrain)	PCEP-TPS-1	4.09			Radio Tower TPS-1 (Caltrain)		
						to SA-RT FJ2 - Alt 1	2.18	
						to SA-RT FJ2 - Alt 2	2.00	
662+59								
665+00				STATION EQUATION STA B962+50.02 = STA B965+00.00				
741+43						Stand Alone Radio Tower FJ3 - Alt 1	2.92	San Marco Ave
						to RT TPS-1	2.92	
745+23						Stand Alone Radio Tower FJ3 - Alt 2	2.99	Santa Lucia Ave
						to RT TPS-1	2.99	
890+00	Broadway PS-3 (Caltrain)	PCEP-PS-3	5.73			Radio Tower PS-3 (Caltrain)		Liracoin Ave
						to SA-RT FJ3 - Alt 1	2.81	
						to SA-RT FJ3 - Alt 2	2.74	
1038+91						Stand Alone Radio Tower FJ4 - Alt 1		Cypress Avenue
1046+13						Stand Alone Radio Tower FJ4 - Alt 2		2nd Avenue

**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
						to SA-RT FJ4 - Alt 1	2.86	Co-locate SAR at Caltrain site
						to SA-RT FJ4 - Alt 2	2.52	
1257+62						Stand Alone Radio Tower FJ5 - Alt 1	1.48	Middle Road
						to RT PS-4		
1269+19						Stand Alone Radio Tower FJ5 - Alt 2	1.70	Ralston Avenue
						to RT PS-4		
1383+21						Stand Alone Radio Tower FJ5 - Alt 1	2.38	El Cameno
						to SA-RT FJ5 - Alt 2	2.16	
1387+77						Stand Alone Radio Tower FJ5 - Alt 2	2.46	Center Street
						to SA-RT FJ5 - Alt 1	2.25	
1419+97				STATION EQUATION STA B1419+97.30 = STA B1425+00.00				
				End of Alternative B - Short Middle 4-Track. Conform with Alternative A.				
1425+00								SR 84
1425+25	Redwood Junction SWS-1 (Caltrain)	PCEP-SWS-1	5.89			Radio Tower SWS-1 (Caltrain)		
						to SA-RT FJ5 - Alt 2	2.03	
						to SA-RT FJ5 - Alt 1	1.94	
1627+06						Stand Alone Radio Tower FJ7 - Alt 1	2.50	Derby Lane
						to RT SWS-1		
1638+84						Stand Alone Radio Tower FJ7 - Alt 2	2.72	Ravenswood Avenue
						to RT SWS-1		
1725+76						Stand Alone Radio Tower FJ7 - Alt 1	1.97	Addison Avenue
						to SA-RT FJ7 - Alt 2	1.65	
1728+64						Stand Alone Radio Tower FJ8 - Alt 1	1.92	Embarcadero Road
						to SA-RT FJ7 - Alt 2	1.70	
1801+80	West Meadow PS-5 (Caltrain)	PCEP-PS-5	5.81					
						to SA-RT FJ8 - Alt 2	6.69	
1861+61						Stand Alone Radio Tower FJ8 - Alt 2	2.57	E. Charleston Road
						to SA-RT FJ8 - Alt 1	2.52	
1865+41						Stand Alone Radio Tower FJ8A - Alt 1	2.64	Park Boulevard
						to SA-RT FJ8 - Alt 2	2.59	
1991+07						Stand Alone Radio Tower FJ9 - Alt 1	2.47	N. Shoreline Boulevard
						to SA-RT FJ8A - Alt 2	2.40	
1998+51						Stand Alone Radio Tower FJ9 - Alt 2	2.52	N. Shoreline Boulevard
						to SA-RT FJ8A - Alt 1	2.59	
2091+76						Stand Alone Radio Tower FJ10 - Alt 1	1.89	E. Bernardo Avenue
						to SA-RT FJ9 - Alt 1	1.77	
2093+59						Stand Alone Radio Tower FJ10 - Alt 2	1.92	E. Bernardo Avenue
						to SA-RT FJ9 - Alt 1	1.92	
2154+69	Sunnyvale PS-6 (Caltrain)	PCEP-PS-6	6.69			Radio Tower PS-6 (Caltrain)		Mathilda Avenue
						to SA-RT FJ10 - Alt 1	1.20	
						to SA-RT FJ10 - Alt 2	1.16	
2288+87						Stand Alone Radio Tower FJ11 - Alt 1	2.16	Lawrence Expressway
						to RT PS-6	2.16	
2290+53						Stand Alone Radio Tower FJ11 - Alt 2	2.57	Lawrence Expressway
						to RT PS-6		
2375+19				End of San Francisco to San Jose Section (FJ)				
				SCOTT BOULEVARD				

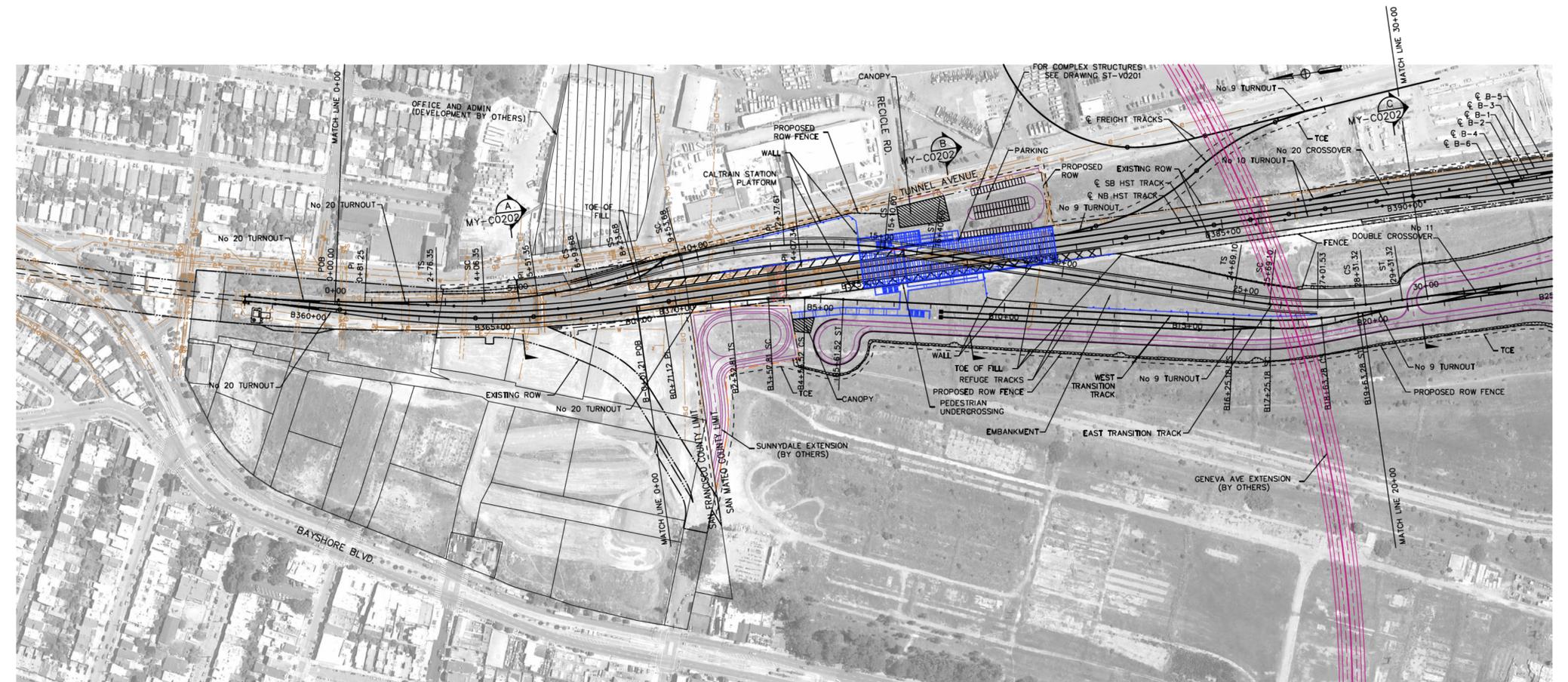
**ALTERNATIVE B (SCOTT BLVD TO W. ALMA) (VIADUCT TO I-880)**

Station (SB TRK)	Traction Power Facility (TPF)	TPD ID	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	2.05	
						to SA-RT FJ11 - Alt 1	1.64	
2287+08						Stand Alone Radio Tower FJ12 - Alt 2	2.52	
						to SA-RT FJ11 - Alt 1	2.11	
2289+59						Radio Tower SS-A - Alt 1	2.41	House at Interlocking Site B
						to SA-RT FJ12 - Alt 1	1.94	
2389+15	Caltrain PCEP TPS-2 - Alt 1							Radio Tower SS-A - Alt 1
						to RT Interlocking Site A	2.42	
2391+52	Substation A (HSR) - ALT2	B-SS-STO (Alt 2)				Radio Tower SS-A - Alt 2	2.46	Stockton Ave.
						to RT Interlocking Site A		
2463+97						House at Interlocking Site E		Radio Tower Interlocking Site E - Alt 1
								to Caltrain PCEP TPS-2 - Alt 1
2476+07	Diridon Passenger Station					RT Interlocking Site A 6CT-DRDN - Alt 3	2.51	
						to SA-RT FJ12 - Alt 1	2.04	
2480+81						House at Interlocking Site E		Radio Tower Interlocking Site E - Alt 1
						to SA-RT FJ12 - Alt 2	1.42	
2484+32						Radio Tower Interlocking Site E - Alt 1	1.32	
						Caltrain PCEP TPS-2 - Alt 1	1.32	
						to Substation A (HSR)	1.32	
2476+00	Diridon Passenger Station					House at Interlocking Site B		Radio Tower Interlocking Site B - Alt 1
						House at Interlocking Site A		to Substation A (HSR)
2481+15						Stand Alone Radio Tower FJ7 - Alt 1	2.50	Derby Lane
						to RT SWS-1		
1638+84						Stand Alone Radio Tower FJ7 - Alt 2	2.72	Ravenswood Avenue
						to RT SWS-1		
1725+76						Stand Alone Radio Tower FJ7 - Alt 1	1.97	Addison Avenue
						to SA-RT FJ7 - Alt 2	1.65	
1728+64						Stand Alone Radio Tower FJ8 - Alt 1	1.92	Embarcadero Road
						to SA-RT FJ7 - Alt 2	1.70	
1801+80	West Meadow PS-5 (Caltrain)	PCEP-PS-5	5.81					
						to SA-RT FJ8 - Alt 2	6.69	
1861+61						Stand Alone Radio Tower FJ8A - Alt 2	2.57	E. Charleston Road
						to SA-RT FJ8 - Alt 1	2.52	
1865+41						Stand Alone Radio Tower FJ8A - Alt 1	2.64	Park Boulevard
						to SA-RT FJ8 - Alt 2	2.59	
1991+07						Stand Alone Radio Tower FJ9 - Alt 1	2.47	N. Shoreline Boulevard
						to SA-RT FJ8A - Alt 2	2.40	
1998+51						Stand Alone Radio Tower FJ9 - Alt 2	2.52	N. Shoreline Boulevard
						to SA-RT FJ8A - Alt 1	2.59	
2091+76						Stand Alone Radio Tower FJ10 - Alt 1	1.89	E. Bernardo Avenue
						to SA-RT FJ9 - Alt 1	1.77	
2093+59						Stand Alone Radio Tower FJ10 - Alt 2	1.92	E. Bernardo Avenue
						to SA-RT FJ9 - Alt 1	1.92	
2154+69	Sunnyvale PS-6 (Caltrain)	PCEP-PS-6	6.69			Radio Tower PS-6 (Caltrain)		Mathilda Avenue
						to SA-RT FJ10 - Alt 1	1.20	
						to SA-RT FJ10 - Alt 2	1.16	
2288+87						Stand Alone Radio Tower FJ11 - Alt 1	2.16	Lawrence Expressway
						to RT PS-6	2.16	
2290+53						Stand Alone Radio Tower FJ11 - Alt 2	2.57	Lawrence Expressway
						to RT PS-6		
2375+19				End of San Francisco to San Jose Section (FJ)				
				SCOTT BOULEVARD				

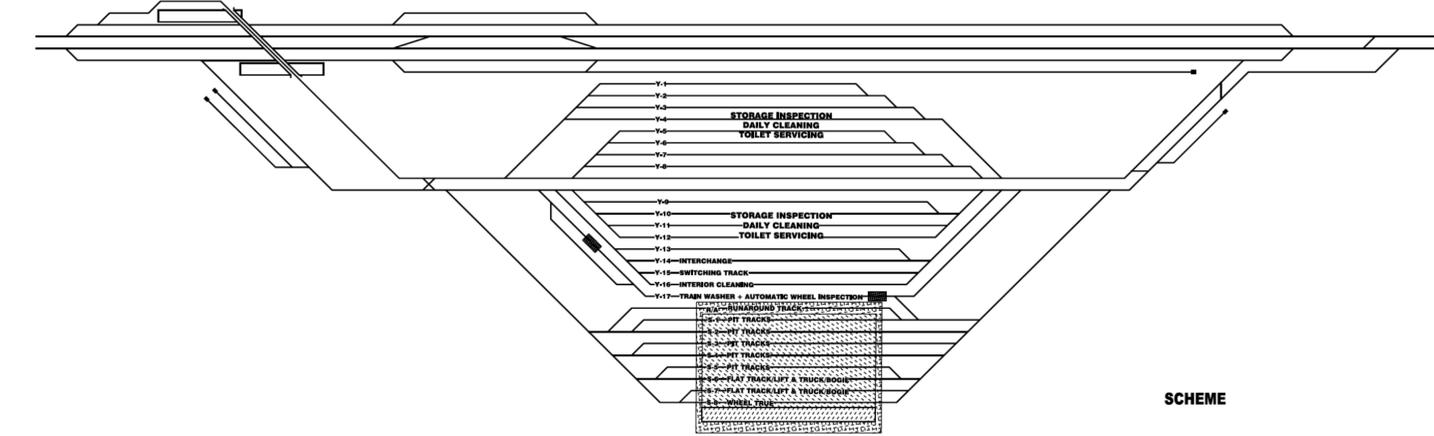
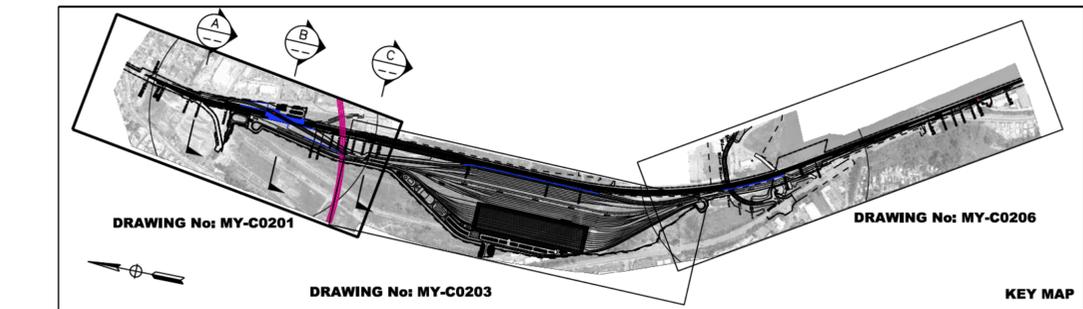
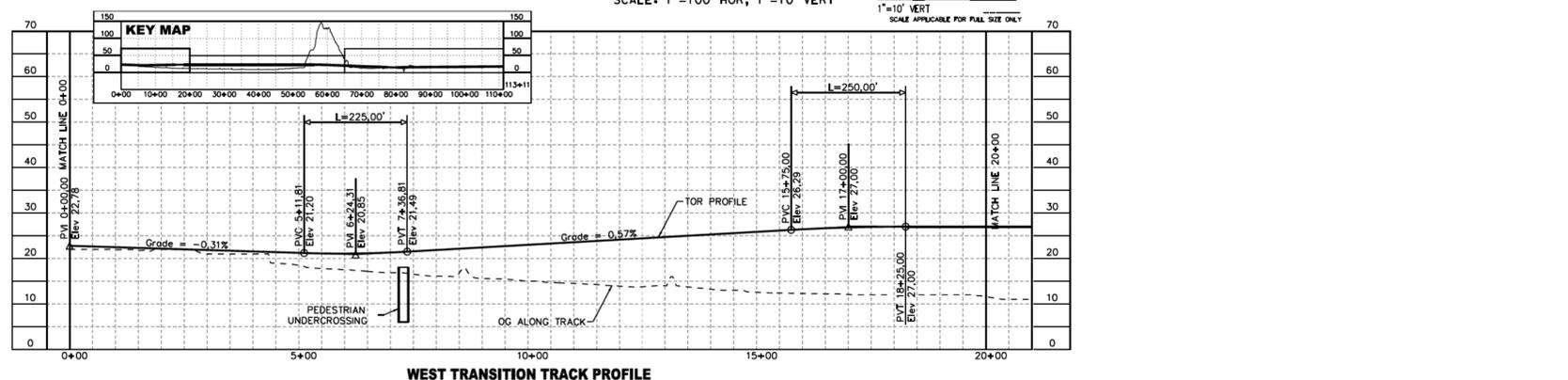
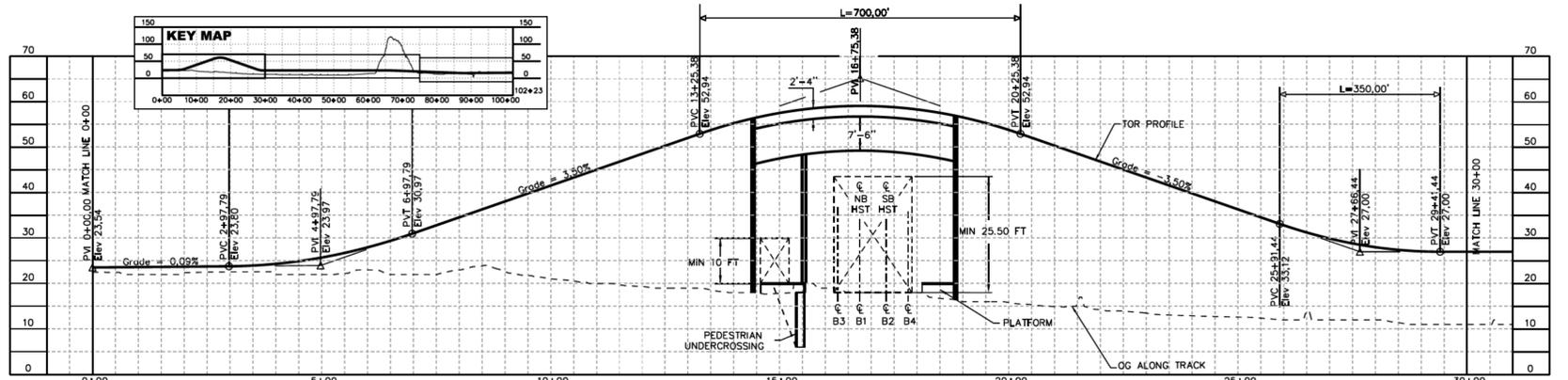
**ALTERNATIVE B (SCOTT BLVD TO W. ALMA) (VIADUCT TO SCOTT BLVD)**

Station (SB TRK)	Traction Power Facility (TPF)	TPF ID	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		Radio Tower Interlocking Site A
								to SA-RT FJ11 - Alt 1
								to SA-RT FJ11 - Alt 2
2289+15	Caltrain PCEP TPS-2 - Alt 1					Radio Tower SS-A - Alt 1	2.42	House at Interlocking Site B
						to RT Interlocking Site A	2.42	
2391+52	Substation A (HSR) - ALT2	B-SS-STO (Alt 2)			</			

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**NOTES:**  
 1. FOR UTILITY IMPACTS, ROADWAYS, STRUCTURES AND MAINLINE TRACK DESIGN, SEE COMPOSITE DRAWINGS FOR DETAIL.



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 51 OF 146**

2021 RECORD SET PERD  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 BRISBANE LIGHT MAINTENANCE FACILITY WEST  
 COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS

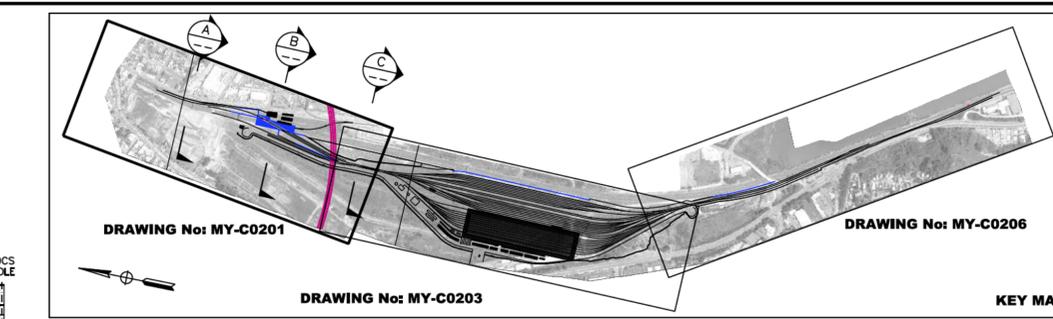
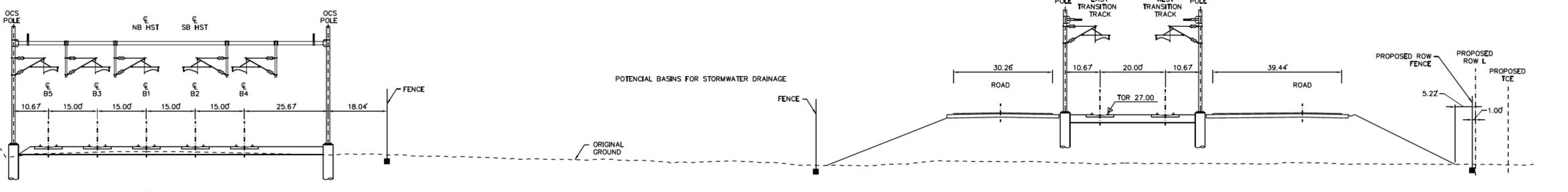
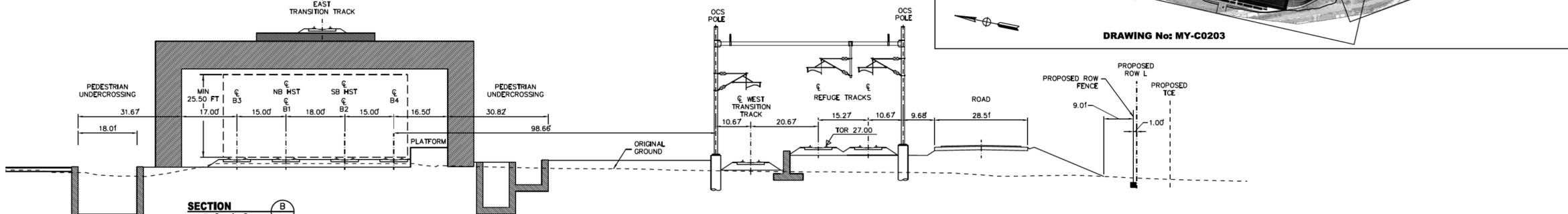
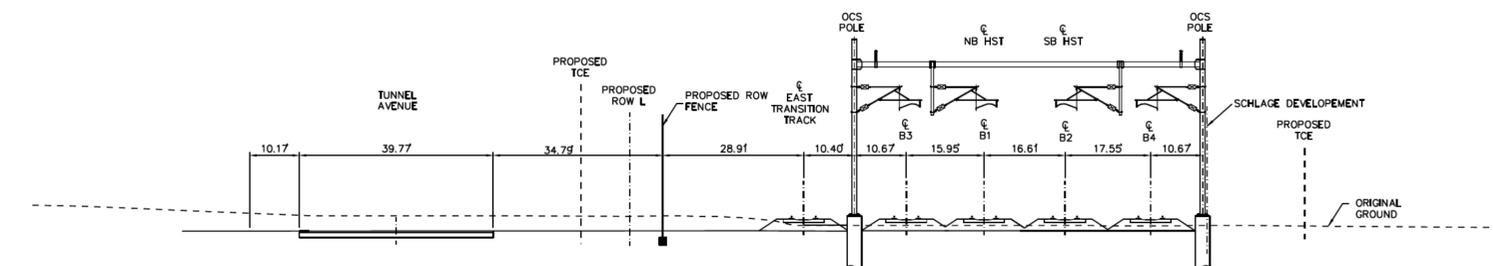
CONTRACT NO. HSR15-34  
 DRAWING NO. MY-C0201  
 SCALE AS SHOWN  
 SHEET NO.

**EAST TRANSITION TRACK GEOMETRY DATA**

CURVE	ELEMENT	POINT TYPE	B2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, A	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA)(IN)	UNBALANCED SUPERELEVATION (EU)(IN)	WCB (0° 00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
Tangent	PI	PI	0+00.00	208532.29	601153.68									S 11°30'57" W		
Tangent	PI	PI	0+81.25	208652.67	601166.46									S 8°39'06" W		
1	Clothoid	YS	2+76.35	208659.79	601163.11											
	Clothoid	SPI	3+53.03	208657.41	6011625.07	130	274'10"	65	0.45					S 8°39'06" W	S 6°14'57" W	
	Clothoid	SC	4+06.35	208653.02	6011620.35										S 4°22'20" E	
	Arc	PI	5+30.43	208630.79	6011604.87	1550	287.33	10°37'16"		39	2.00	1.93				
	Arc	CC	6+93.68	208636.23	6011611.14											
	Arc	CS	8+93.68	2086244.14	6011615.65											
	Clothoid	CS	6+93.68	2086244.14	6011615.65	130	274'10"	65	0.45					S 4°22'20" E	S 6°46'30" E	
	Clothoid	SPI	7+37.02	2086200.92	6011618.96											
	Clothoid	SS	8+23.68	2086114.85	6011629.18											
	Clothoid	SPI	9+10.36	2086028.78	6011639.41	130	279'40"	65	0.44						S 6°46'30" E	S 4°26'50" E
2	Clothoid	SC	9+53.68	2085985.57	6011642.77											
	Arc	SC	9+53.68	2085985.57	6011642.77	1600	556.92	19°56'35"		40	2.00	2.00				
	Arc	PI	12+34.99	2085705.12	6011664.58											
	Arc	CC	15+10.60	2085434.04	6011589.43											
	Arc	CS	15+10.60	2085434.04	6011589.43											
	Clothoid	CS	15+10.60	2085434.04	6011589.43	130	279'40"	65	0.44						S 15°29'45" W	S 17°49'24" W
	Clothoid	SPI	15+53.94	2085392.27	6011577.85											
	Clothoid	SS	16+40.60	2085309.76	6011551.32											
	Tangent	TS	16+40.60	2085309.76	6011551.32										S 17°49'24" W	
	Tangent	TS	24+69.10	2084521.02	6011297.73											
3	Clothoid	YS	24+69.10	2084521.02	6011297.73											
	Clothoid	SPI	25+55.77	2084457.55	6011277.32	100	217'31"	50	0.33						S 17°49'24" W	S 15°31'54" W
	Clothoid	SC	25+69.10	2084425.43	6011268.39											
	Arc	SC	25+69.10	2084425.43	6011268.39	1250	262.22	12°01'10"		30	1.50	1.38				
	Arc	PI	27+00.69	2084290.22	6011247.25											
	Arc	CC	28+31.32	2084167.29	6011225.09											
	Arc	CS	28+31.32	2084167.29	6011225.09											
	Clothoid	CS	28+31.32	2084167.29	6011225.09	100	217'31"	50	0.33						S 3°30'44" W	S 1°13'13" W
	Clothoid	SPI	28+64.66	2084134.02	6011223.05											
	Clothoid	SS	29+31.32	2084097.36	6011221.63											
Tangent	TS	29+31.32	2084097.36	6011221.63										S 1°13'13" W		
Tangent	TS	60+55.30	2080944.09	6011155.12												

**WEST TRANSITION TRACK GEOMETRY DATA**

CURVE	ELEMENT	POINT TYPE	B2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, A	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA)(IN)	UNBALANCED SUPERELEVATION (EU)(IN)	WCB (0° 00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
Tangent	PI	PI	0+00.00	2085136.01	6011296.77									S 1°13'13" W		
Tangent	PI	PI	0+81.25	2086053.78	6011523.52									S 4°05'04" W		
1	Clothoid	YS	2+52.81	2085872.55	6011510.58											
	Clothoid	SPI	3+22.82	2085802.73	6011505.59	105	2'04'28"	52.5	0.32						S 4°05'04" W	S 6°09'32" W
	Clothoid	SC	3+57.81	2085767.92	6011501.83											
	Arc	SC	3+57.81	2085767.92	6011501.83	1450	98.7	3°54'01"		34	1.50	1.69			S 6°09'32" W	S 10°03'53" W
	Arc	PI	4+07.16	2085718.84	6011496.54											
	Arc	CC	4+56.52	2085670.23	6011487.91											
	Arc	CS	4+56.52	2085670.23	6011487.91											
	Clothoid	CS	4+56.52	2085670.23	6011487.91	105	2'04'28"	52.5	0.32						S 10°03'53" W	S 12°08'01" W
	Clothoid	SPI	4+91.42	2085635.76	6011481.8											
	Clothoid	SS	5+61.52	2085587.32	6011467.09											
Tangent	TS	5+61.52	2085587.32	6011467.09										S 12°08'01" W		
Tangent	TS	16+25.18	2084527.41	6011243.51												
2	Clothoid	YS	16+25.18	2084527.41	6011243.51											
	Clothoid	SPI	16+91.86	2084462.43	6011239.5	100	217'31"	50	0.33						S 12°08'01" W	S 9°50'30" W
	Clothoid	SC	17+25.18	2084429.38	6011233.8											
	Arc	SC	17+25.18	2084429.38	6011233.8	1250	138.09	6°19'47"		30	1.50	1.38			S 9°50'30" W	S 3°30'44" W
	Arc	PI	17+94.30	2084361.28	6011211.98											
	Arc	CC	18+63.28	2084292.3	6011207.75											
	Arc	CS	18+63.28	2084292.3	6011207.75											
	Clothoid	CS	18+63.28	2084292.3	6011207.75	100	217'31"	50	0.33						S 3°30'44" W	S 1°13'13" W
	Clothoid	SPI	18+96.61	2084259.02	6011205.71											
	Clothoid	SS	19+65.28	2084192.17	6011204.29											
Tangent	TS	19+65.28	2084192.17	6011204.29										S 1°13'13" W		
Tangent	TS	52+11.29	2080945.09	6011135.12												



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 52 OF 146**

2021 RECORD SET PERP  
NOVEMBER 30, 2021  
NOT FOR CONSTRUCTION

**HNTB**  
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**CALIFORNIA**  
High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
ALTERNATIVE B  
BRISBANE LIGHT MAINTENANCE FACILITY WEST  
COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS

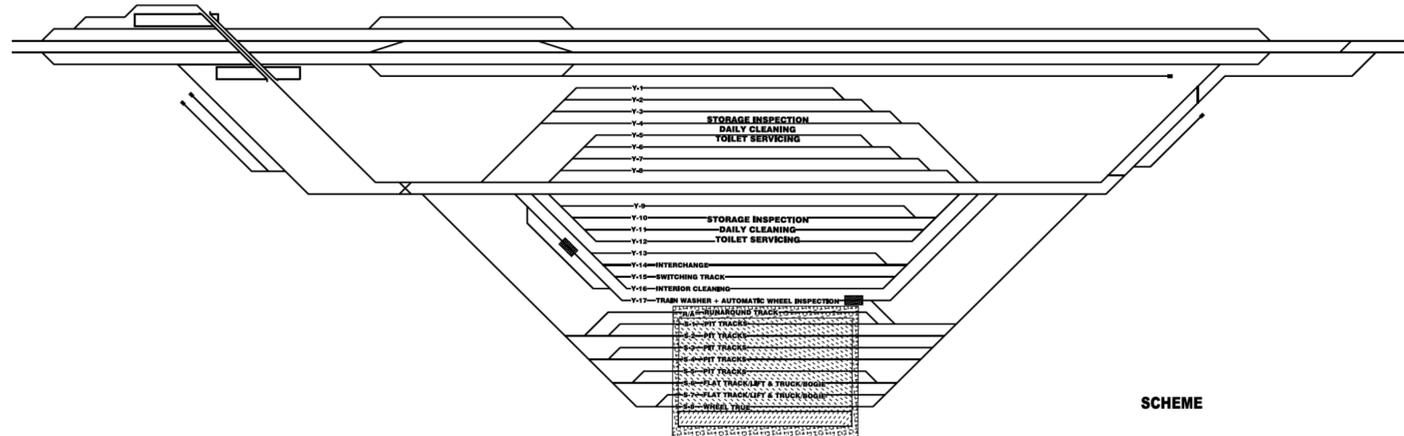
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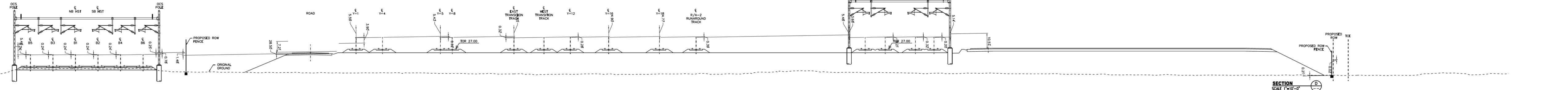
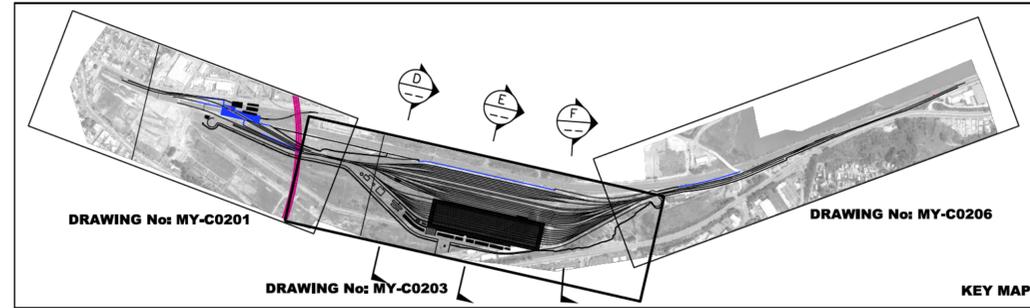


EAST TRANSITION TRACK GEOMETRY DATA																
CURVE	ELEMENT	POINT TYPE	B2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, A	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA)(IN)	UNBALANCED SUPERELEVATION (EU)(IN)	WCB (0°00'00") (TANGENT)		
				NORTHING	EASTING									START ANGLE	END ANGLE	
Tangent	Tangent	TS	19+63.28	2084192.37	6011204.29											
		TS	52+11.29	2080945.09	6011135.12											
3	Clothoid	TS	52+11.29	2080945.09	6011135.12										S 1°13'13" W	S 2°03'32" E
	Clothoid	SC	52+38.74	2080945.09	6011135.12	191.15	3'16"45"	95.56	0.91							
	Clothoid	SC	52+02.44	2080753.97	6011134.69											
	Arc	SC	54+07.44	2080753.97	6011134.69											
	Arc	PI	56+18.74	2080474.74	6011144.78	1670	556.4	19°05'22"			50	3.00	2.99		S 2°03'32" E	S 21°08'54" E
	Arc	CC	59+58.84	2080813.96	6012803.62											
Tangent	Tangent	ST	61+49.99	2080035.96	6011321.79										S 21°08'54" E	S 24°25'39" E
		TS	75+17.23	2078738.3	6011911.19											

WEST TRANSITION TRACK GEOMETRY DATA																
CURVE	ELEMENT	POINT TYPE	B2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, A	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA)(IN)	UNBALANCED SUPERELEVATION (EU)(IN)	WCB (0°00'00") (TANGENT)		
				NORTHING	EASTING									START ANGLE	END ANGLE	
Tangent	Tangent	TS	29+31.32	2084067.36	6011221.63											
		TS	60+55.30	2080944.09	6011155.1											
4	Clothoid	TS	60+55.30	2080944.09	6011155.1										S 1°13'13" W	S 2°04'43" E
	Clothoid	SPI	61+81.99	2080817.43	6011152.4	190	3'17"56"	94.99	0.91							
	Clothoid	SC	62+45.30	2080754.12	6011154.7											
	Arc	SC	62+45.30	2080754.12	6011154.7											
	Arc	PI	64+52.16	2080474.74	6011164.74	1650	548.6	19°03'00"			45	2.50	2.41		S 2°04'43" E	S 21°07'43" E
	Arc	CC	67+93.90	2080219.2	6011264.54											
Tangent	Tangent	ST	67+93.90	2080219.2	6011264.54										S 21°07'43" E	S 24°25'39" E
		TS	84+10.11	2078746.21	6011339.77											



SCHEME



SECTION SCALE 1"=10'-0"

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 54 OF 146**

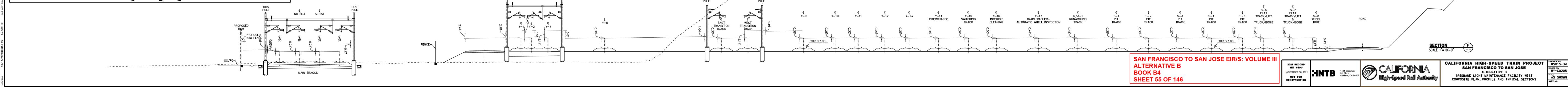
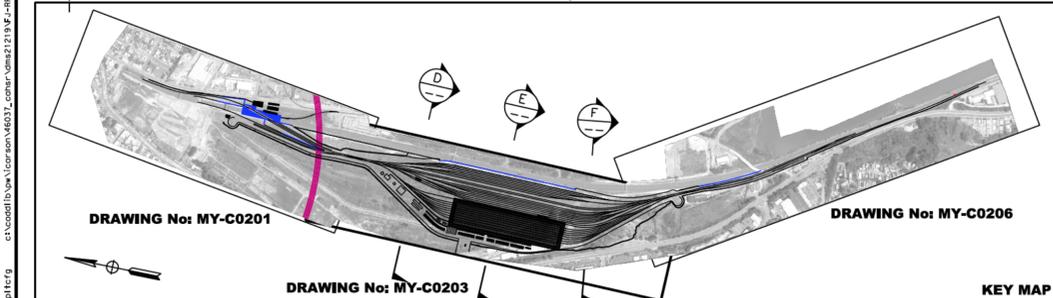
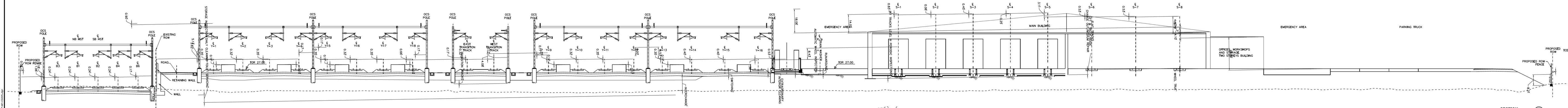
2021 RECORD SET PERD  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 BRISBANE LIGHT MAINTENANCE FACILITY WEST  
 COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS

CONTRACT NO. HSR15-34  
 DRAWING NO. MY-C0204  
 SCALE AS SHOWN  
 SHEET NO.



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 55 OF 146**

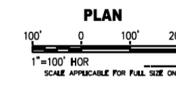
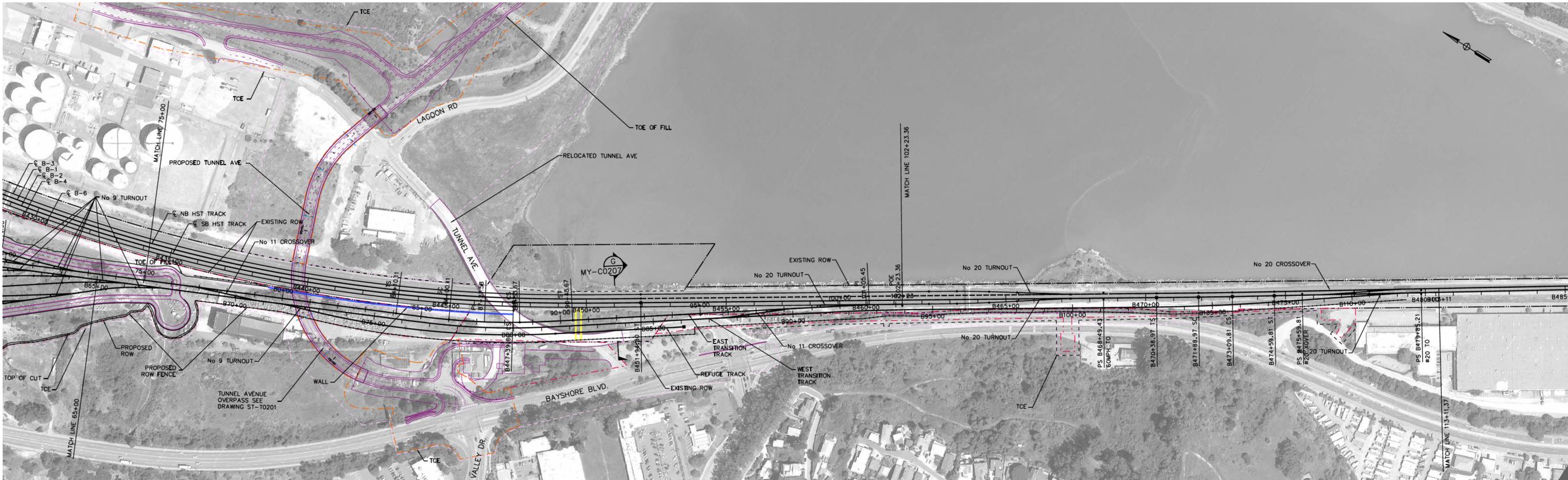
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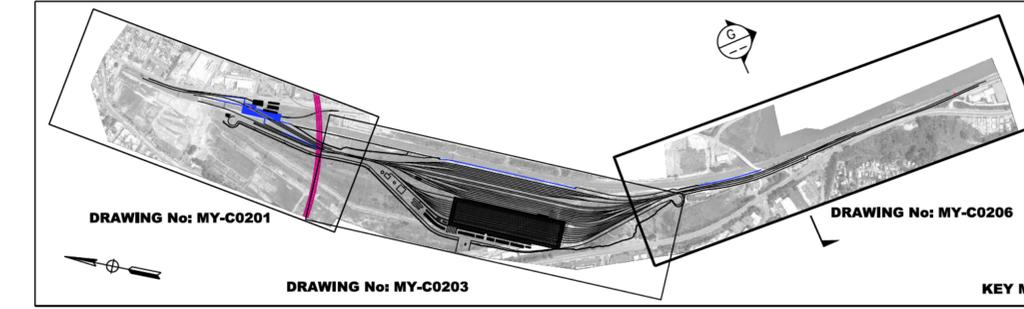
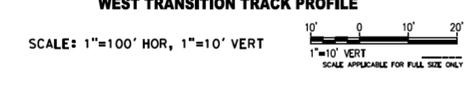
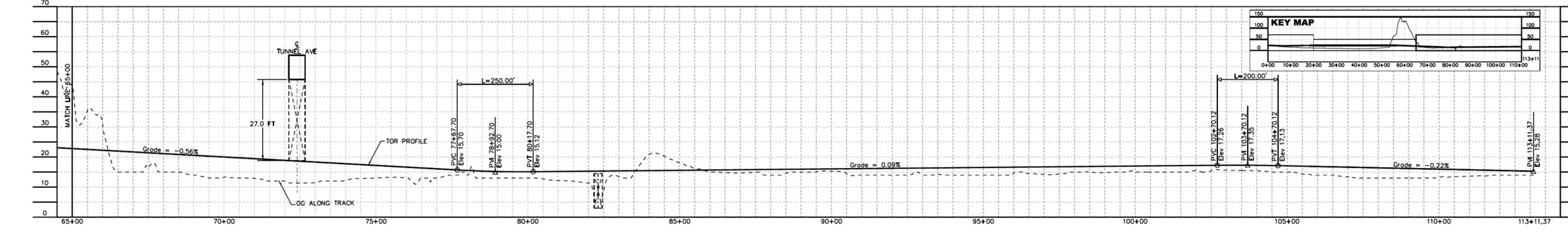
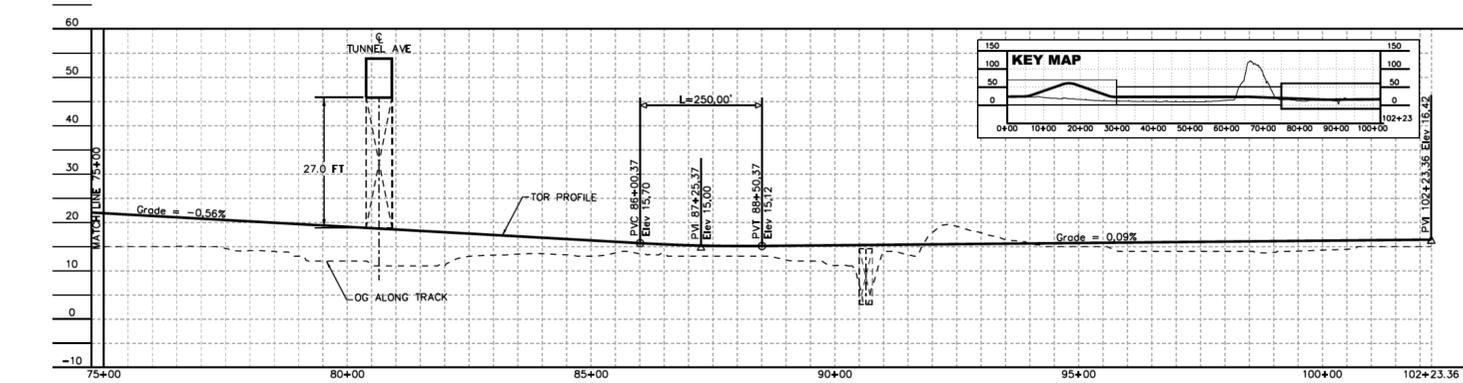
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 BRISBANE LIGHT MAINTENANCE FACILITY WEST  
 COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS

CONTRACT NO. HSR15-34  
 DRAWING NO. MY-C0205  
 SCALE AS SHOWN  
 SHEET NO.



**NOTES:**  
 1. FOR UTILITY IMPACTS, ROADWAYS, STRUCTURES AND MAINLINE TRACK DESIGN, SEE COMPOSITE DRAWINGS FOR DETAIL.



**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 56 OF 146**

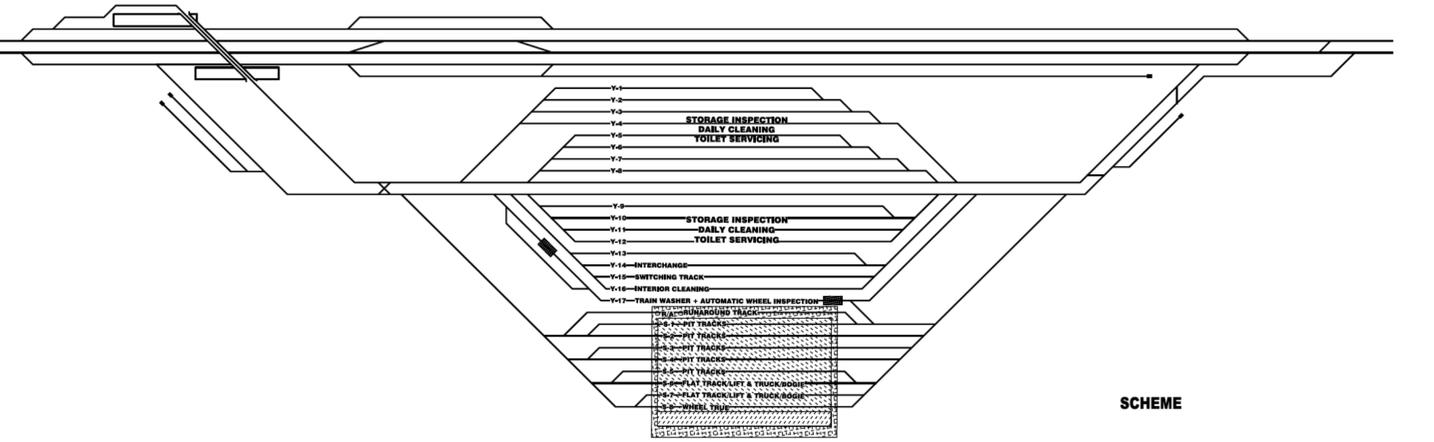
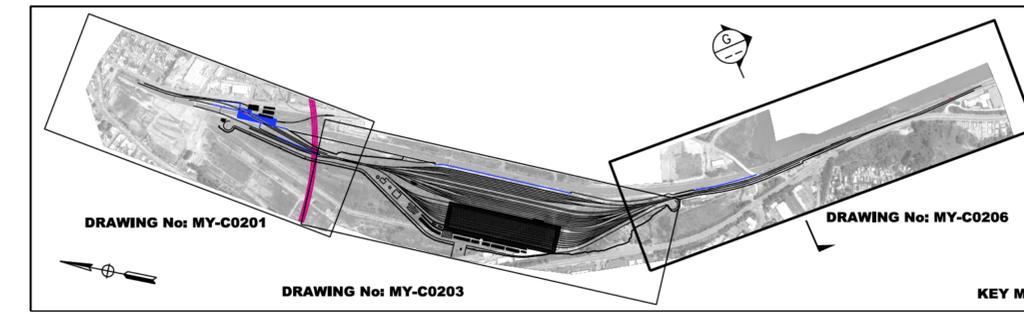
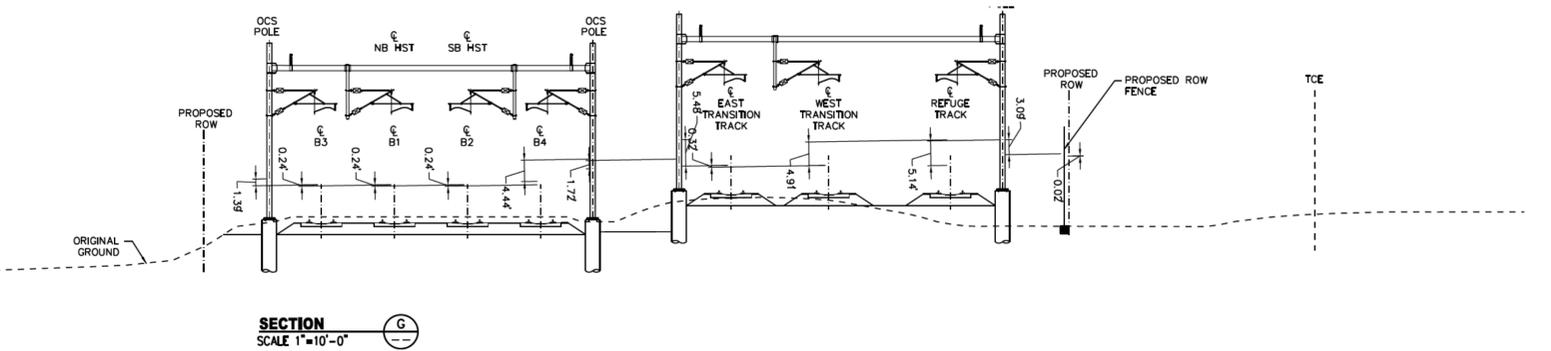
2021 RECORD SET PERD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	<b>HNTB</b> 1111 Broadway 9th Floor Oakland, CA 94607		<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT</b> <b>SAN FRANCISCO TO SAN JOSE</b> ALTERNATIVE B BRISBANE LIGHT MAINTENANCE FACILITY WEST COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	CONTRACT NO.: HSR15-34 DRAWING NO.: MY-C0206 SCALE: AS SHOWN SHEET NO.:
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WEST TRANSITION TRACK GEOMETRY DATA

CURVE	ELEMENT	POINT TYPE	B2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, A	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA)(IN)	UNBALANCED SUPERELEVATION (EU)(IN)	WCB (0° 00'00") (TANGENT)	WCB (0°00'00")		
				NORTHING	EASTING										START ANGLE	END ANGLE	
	Tangent	ST	61+43.58	2080035.96	6011921.79									S 24°25'39" E			
	Tangent	TS	75+75.23	2078738.3	6011911.19												
4	Clothoid	TS	75+75.23	2078738.3	6011911.19												
	Clothoid	SPI	77+02.43	2078522.49	6011963.79		190.79	21°31'	95.39	0.63					S 24°25'39" E	S 26°41'09" E	
	Clothoid	SC	77+66.02	2078565.65	6011992.36												
	Arc	SC	77+66.02	2078565.65	6011992.36												
	Arc	PI	78+93.37	2078450.97	6012050	2420	256.47	6°04'19"			60	3.00	2.95			S 26°41'09" E	S 32°45'29" E
	Arc	CC	80+22.49	2078552.48	6014154.58												
	Arc	CS	80+22.49	2078343.03	6012119.45												
	Clothoid	CS	80+22.49	2078343.03	6012119.45												
	Clothoid	SPI	82+13.28	2078289.44	6012133.87												
	Clothoid	ST	82+13.28	2078188.37	6012228.86		190.79	21°5'31"	95.39	0.63						S 32°45'29" E	S 35°01'00" E
Tangent	ST	82+13.28	2078188.37	6012228.86											S 35°01'00" E		
Tangent	TS	90+72.91	2077481.34	6012720.13													
5	Clothoid	TS	90+72.91	2077481.34	6012720.13												
	Clothoid	SPI	91+38.57	2077426.74	6012758.38												
	Clothoid	SC	91+72.91	2077399.31	6012777.33												
	Arc	SC	91+72.91	2077399.31	6012777.33												
	Arc	PI	92+83.48	2077308.33	6012840.17	7500	221.13	1°41'22"			60	1.00	0.92			S 34°38'05" E	S 32°56'43" E
	Arc	CC	93+94.04	2077316.76	6006806.38												
	Arc	CS	93+94.04	2077215.54	6012900.31												
	Clothoid	CS	93+94.04	2077215.54	6012900.31												
	Clothoid	SPI	94+27.37	2077187.57	6012919.43												
	Clothoid	ST	94+27.37	2077131.98	6012954.92												
Tangent	ST	94+27.37	2077131.98	6012954.92											S 32°56'43" E		
Tangent	TS	102+14.61	2076524.09	6013342.15													
6	Clothoid	TS	102+14.61	2076524.09	6013342.15												
	Clothoid	SPI	102+81.27	2076467.90	6013378.03												
	Clothoid	SC	103+14.61	2076439.93	6013396.16												
	Arc	SC	103+14.61	2076439.93	6013396.16												
	Arc	PI	104+92.05	2076291.02	6013449.68	7500	354.82	2°42'38"			60	1.00	0.92			S 32°56'43" E	S 35°39'21" E
	Arc	CC	106+69.43	2076058.95	6013596.09												
	Arc	CS	106+69.43	2076146.84	6013596.09												
	Clothoid	CS	106+69.43	2076146.84	6013596.09												
	Clothoid	SPI	107+102.78	2076119.76	6013615.92												
	Clothoid	ST	107+102.78	2076063.55	6013654.74												
Tangent	ST	107+102.78	2076063.55	6013654.74													
Tangent	PI	111+75.87	2075737.19	6013893.86													
Tangent	TS	111+75.87	2075737.19	6013893.86													
Tangent	PI	114+75.87	2075737.19	6013893.86													
Tangent	POK	114+75.87	2075623.77	6013988.00													
	Tangent	PI	114+75.87	2075737.19	6013893.86												
	Tangent	POK	114+75.87	2075623.77	6013988.00												

EAST TRANSITION TRACK GEOMETRY DATA

CURVE	ELEMENT	POINT TYPE	B2 TRACK STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, A	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA)(IN)	UNBALANCED SUPERELEVATION (EU)(IN)	WCB (0° 00'00") (TANGENT)	WCB (0°00'00")		
				NORTHING	EASTING										START ANGLE	END ANGLE	
	Tangent	ST	69+83.90	2080044.76	6011938.77												
	Tangent	TS	84+10.11	2078746.21	6011929.56												
5	Clothoid	TS	84+10.11	2078746.21	6011929.56												
	Clothoid	SPI	85+36.79	2078630.88	6011981.95												
	Clothoid	SC	86+00.11	2078574.29	6012010.4												
	Arc	SC	86+00.11	2078574.29	6012010.4												
	Arc	PI	87+27.01	2078460.91	6012087.41	2400	253.56	6°03'12"			60	3.00	3.00			S 24°25'39" E	S 26°41'43" E
	Arc	CC	88+43.67	2078652.48	6014154.58												
	Arc	CS	88+43.67	2078354.19	6012136.06												
	Clothoid	CS	88+43.67	2078354.19	6012136.06												
	Clothoid	SPI	90+43.67	2078300.91	6012170.32												
	Clothoid	ST	90+43.67	2078197.17	6012243.01		190	21°6'05"	95	0.63						S 26°41'43" E	S 32°44'55" E
Tangent	ST	90+43.67	2078197.17	6012243.01													
Tangent	PI	101+05.45	2077327.58	6012852.27													
Tangent	POK	101+05.45	2077228.2	6012915.56													
	Tangent	PI	101+05.45	2077327.58	6012852.27												
	Tangent	POK	102+23.36	2077228.2	6012915.56												



SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 57 OF 146

2021 RECORD SET PERD 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 FRANCISCO TO SAN JOSE ALTERNATIVE B BRISBANE LIGHT MAINTENANCE FACILITY WEST COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS	CONTRACT NO. HSR15-34 DRAWING NO. MY-C0207 SCALE AS SHOWN SHEET NO.
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TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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)	TNGT BEARING/ CHRD DEG. CV. (0°00'00")	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	TANGENT	POB	100+00.00	2110730.839	6014026.793		231.94							S 46°19'23" W		
	TANGENT	PI	102+31.94	2110570.663	6013859.043											
	TANGENT	PI	102+31.94	2110570.663	6013859.043		1610.23							S 46°16'23" W		
	TANGENT	TS	118+42.17	2109457.634	6012695.419											
	CLOTHOID	TS	118+42.17	2109457.634	6012695.419										S 46°16'23" W	S 44°04'10" W
	CLOTHOID	SPI	118+75.51	2109434.592	6012671.330		50.00	2°12'13"	25.00	0.16						
	CLOTHOID	SC	118+92.17	2109422.615	6012659.736											
	ARC	SC	118+92.17	2109422.615	6012659.736											
C103	ARC	PI	124+93.95	2108990.242	6012241.184	650.00	970.00	85°35'15"			25	0.50	3.36	8°49'24"		
	ARC	CC		2108970.521	6013126.759											
	ARC	CS	128+62.17	2108539.665	6012640.073											
	CLOTHOID	CS	128+62.17	2108539.665	6012640.073										S 41°31'05" E	S 43°43'18" E
	CLOTHOID	SPI	128+78.84	2108527.185	6012651.122		50.00	2°12'13"	25.00	0.16						
	CLOTHOID	ST	129+12.17	2108503.092	6012674.163											
	TANGENT	ST	129+12.17	2108503.092	6012674.163		2115.74							S 43°43'18" E		
EON		BK	133+15.12	2108211.880	6012952.662											
EON		AHD	139+00.00													
	TANGENT	TS	156+12.79	2106974.035	6014136.468											
	CLOTHOID	TS	156+12.79	2106974.035	6014136.468										S 43°43'18" E	S 36°53'12" E
	CLOTHOID	SPI	157+69.58	2106860.726	6014244.830		235.00	6°50'06"	117.44	2.33						
	CLOTHOID	SC	158+47.79	2106797.988	6014291.912											
	ARC	SC	158+47.79	2106797.988	6014291.912											
C104	ARC	PI	160+83.06	2106609.813	6014433.130	984.98	461.69	26°52'04"			45	2.75	5.50	5°49'10"		
	ARC	CC		2106206.768	6013504.101											
	ARC	CS	163+09.48	2106378.131	6014474.061											
	CLOTHOID	CS	163+09.48	2106378.131	6014474.061										S 10°01'09" E	S 3°11'03" E
	CLOTHOID	SPI	163+87.92	2106300.887	6014487.708		235.00	6°50'06"	117.44	2.33						
	CLOTHOID	ST	165+44.48	2106144.346	6014496.416											
	TANGENT	ST	165+44.48	2106144.346	6014496.416		2067.46							S 3°11'03" E		
	TANGENT	TS	186+11.94	2104080.075	6014611.254											
	CLOTHOID	TS	186+11.94	2104080.075	6014611.254										S 3°11'03" E	S 2°16'30" E
	CLOTHOID	SPI	187+55.28	2103936.961	6014619.216		215.00	0°54'33"	107.50	0.28						
	CLOTHOID	SC	188+26.94	2103865.349	6014622.061											
	ARC	SC	188+26.94	2103865.349	6014622.061											
C105	ARC	PI	193+48.54	2103344.159	6014642.765	6773.95	1041.14	8°48'23"			100	2.50	3.42	0°50'45"		
	ARC	CC		2103596.465	6007853.452											
	ARC	CS	198+68.08	2102825.943	6014583.434											
	CLOTHOID	CS	198+68.08	2102825.943	6014583.434										S 6°31'53" W	S 7°26'26" W
	CLOTHOID	SPI	199+39.75	2102754.740	6014575.282		215.00	0°54'33"	107.50	0.28						
	CLOTHOID	ST	200+83.08	2102612.611	6014556.720											
	TANGENT	ST	200+83.08	2102612.611	6014556.720		2986.98							S 7°26'26" W		
	TANGENT	PI*	230+70.06	2099650.782	6014169.908											
	TANGENT	PI*	230+70.06	2099650.782	6014169.908		839.49							S 7°25'02" W		
	TANGENT	TS	239+09.55	2098818.320	6014061.535											
	CLOTHOID	TS	239+09.55	2098818.320	6014061.535										S 7°25'02" W	S 7°29'06" W
	CLOTHOID	SPI	239+66.22	2098762.127	6014054.220		85.00	0°04'04"	42.50	0.01						
	CLOTHOID	SC	239+94.55	2098734.036	6014050.529											
	ARC	SC	239+94.55	2098734.036	6014050.529											
C106	ARC	PI	240+48.06	2098680.978	6014043.558	36000.00	107.03	0°10'13"			110	1.00	0.35	0°09'33"		
	ARC	CC		2103423.548	5978357.274											
	ARC	CS	241+01.58	2098627.942	6014036.430											
	CLOTHOID	CS	241+01.58	2098627.942	6014036.430										S 7°39'19" W	S 7°43'22" W

\* NOTE: ANGLE POINTS ARE NOT INTENDED FOR CONSTRUCTION. THEY ARE A "BEST FIT" REPRESENTATION OF THE EXISTING ALIGNMENT OVER LONG TANGENTS.

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 58 OF 146

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DESIGNED BY	
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2021 RECORD  
 SBT PEPP  
 NOVEMBER 30, 2021  
 NOT FOR  
 CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C103 TO C106

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0001
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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
	CLOTHOID	SPI	241+29.91	2098599.861	6014032.655		85.00	0°04'04"	42.50	0.01						
	CLOTHOID	ST	241+86.58	2098543.708	6014025.040											
	TANGENT	ST	241+86.58	2098543.708	6014025.040		100.28							S 7°43'22" W		
	TANGENT	TS	242+86.85	2098444.342	6014011.565											
	CLOTHOID	TS	242+86.85	2098444.342	6014011.565										S 7°43'22" W	S 7°40'07" W
	CLOTHOID	SPI	243+43.52	2098388.189	6014003.950		85.00	0°03'15"	42.50	0.01						
	CLOTHOID	SC	243+71.85	2098360.109	6014000.169											
	ARC	SC	243+71.85	2098360.109	6014000.169											
C107	ARC	PI	244+23.04	2098309.384	6013993.339	45000.00	102.37	0°07'49"			110	1.00	0.08	0°07'38"		
	ARC	CC		2092355.072	6058597.698											
	ARC	CS	244+74.22	2098258.642	6013986.624											
	CLOTHOID	CS	244+74.22	2098258.642	6013986.624										S 7°32'18" W	S 7°29'03" W
	CLOTHOID	SPI	245+02.55	2098230.554	6013982.907		85.00	0°03'15"	42.50	0.01						
	CLOTHOID	ST	245+59.22	2098174.370	6013975.526											
	TANGENT	ST	245+59.22	2098174.370	6013975.526		255.20							S 7°29'03" W		
	TANGENT	PI*	248+14.42	2097921.341	6013942.285											
	TANGENT	PI*	248+14.42	2097921.341	6013942.285		613.51							S 7°27'38" W		
	TANGENT	TS	254+27.93	2097313.024	6013862.624											
	CLOTHOID	TS	254+27.93	2097313.024	6013862.624										S 7°27'38" W	S 7°23'41" W
	CLOTHOID	SPI	254+84.60	2097256.837	6013855.266		85.00	0°03'57"	42.50	0.01						
	CLOTHOID	SC	255+12.93	2097228.740	6013851.619											
	ARC	SC	255+12.93	2097228.740	6013851.619											
C108	ARC	PI	255+64.50	2097177.602	6013844.982	37000.00	103.13	0°09'35"			110	1.00	0.31	0°09'17"		
	ARC	CC		2092466.615	6050543.882											
	ARC	CS	256+16.07	2097126.445	6013838.488											
	CLOTHOID	CS	256+16.07	2097126.445	6013838.488										S 7°14'06" W	S 7°10'10" W
	CLOTHOID	SPI	256+44.40	2097098.338	6013834.919		85.00	0°03'57"	42.50	0.01						
	CLOTHOID	ST	257+01.07	2097042.114	6013827.847											
	TANGENT	ST	257+01.07	2097042.114	6013827.847		142.32							S 7°10'10" W		
	TANGENT	TS	258+43.39	2096900.902	6013810.085											
	CLOTHOID	TS	258+43.39	2096900.902	6013810.085										S 7°10'10" W	S 7°14'00" W
	CLOTHOID	SPI	259+00.06	2096844.678	6013803.013		85.00	0°03'51"	42.50	0.01						
	CLOTHOID	SC	259+28.39	2096816.570	6013799.445											
	ARC	SC	259+28.39	2096816.570	6013799.445											
C109	ARC	PI	259+78.80	2096766.562	6013793.098	38000.00	100.82	0°09'07"			110	1.00	0.28	0°09'03"		
	ARC	CC		2101601.203	5976101.868											
	ARC	CS	260+29.21	2096716.571	6013786.618											
	CLOTHOID	CS	260+29.21	2096716.571	6013786.618										S 7°23'07" W	S 7°26'58" W
	CLOTHOID	SPI	260+57.54	2096688.472	6013782.976		85.00	0°03'51"	42.50	0.01						
	CLOTHOID	ST	261+14.21	2096632.284	6013775.629											
	TANGENT	ST	261+14.21	2096632.284	6013775.629		147.73							S 7°26'58" W		
	TANGENT	PI*	262+61.95	2096485.796	6013756.475											
	TANGENT	PI*	262+61.95	2096485.796	6013756.475		213.04							S 7°23'09" W		
	TANGENT	PI*	264+74.99	2096274.524	6013729.089											
	TANGENT	PI*	264+74.99	2096274.524	6013729.089		1523.11							S 7°26'44" W		

\* NOTE: ANGLE POINTS ARE NOT INTENDED FOR CONSTRUCTION. THEY ARE A "BEST FIT" REPRESENTATION OF THE EXISTING ALIGNMENT OVER LONG TANGENTS.

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 59 OF 146

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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


 1111 Broadway  
 9th Floor  
 Oakland, CA 94607


**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C107 TO C109

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0002
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	PI*	279+98.10	2094764.251	6013531.720											
	TANGENT	PI*	279+98.10	2094764.251	6013531.720		2319.10							S 7°26'17" W		
	TANGENT	TS	303+17.20	2092464.665	6013231.498											
	CLOTHOID	TS	303+17.20	2092464.665	6013231.498										S 7°26'17" W	S 9°13'32" W
	CLOTHOID	SPI	305+53.88	2092229.978	6013200.858		355.00	1°47'14"	177.49	0.92						
	CLOTHOID	SC	306+72.20	2092113.165	6013181.885											
C110	ARC	SC	306+72.20	2092113.165	6013181.885											
	ARC	PI	309+77.35	2091811.962	6013132.964	5690.14	609.71	6°08'22"			110	4.25	4.28	1°00'25"		
	ARC	CC		2093025.409	6007565.347											
	ARC	CS	312+81.91	2091517.718	6013052.109											
	CLOTHOID	CS	312+81.91	2091517.718	6013052.109										S 15°21'54" W	S 17°09'08" W
	CLOTHOID	SPI	314+00.25	2091403.604	6013020.752		355.00	1°47'14"	177.49	0.92						
	CLOTHOID	ST	316+36.91	2091177.452	6012950.953											
	TANGENT	ST	316+36.91	2091177.452	6012950.953		1819.16							S 17°09'08" W		
	TANGENT	PI*	334+56.07	2089439.201	6012414.463											
	TANGENT	TS	354+54.58	2087529.849	6011824.176		1998.52							S 17°10'45" W		
	CLOTHOID	TS	354+54.58	2087529.849	6011824.176										S 17°10'45" W	S 16°38'16" W
	CLOTHOID	SPI	355+21.25	2087466.156	6011804.485		100.00	0°32'30"	50.00	0.08						
	CLOTHOID	SC	355+54.58	2087434.218	6011794.941											
C111	ARC	SC	355+54.58	2087434.218	6011794.941											
	ARC	PI	356+33.81	2087358.305	6011772.256	5288.92	158.45	1°42'59"			65	1.00	2.20	1°05'00"		
	ARC	CC		2085919.906	6016862.438											
	ARC	CS	357+13.03	2087281.747	6011751.855											
	CLOTHOID	CS	357+13.03	2087281.747	6011751.855										S 14°55'16" W	S 14°22'46" W
	CLOTHOID	SPI	357+46.36	2087249.537	6011743.272		100.00	0°32'30"	50.00	0.08						
	CLOTHOID	ST	358+13.03	2087184.959	6011726.716											
	TANGENT	ST	358+13.03	2087184.959	6011726.716		287.91							S 14°22'46" W		
	TANGENT	TS	361+00.94	2086906.064	6011655.214											
	CLOTHOID	TS	361+00.94	2086906.064	6011655.214										S 14°22'46" W	S 11°24'16" W
	CLOTHOID	SPI	362+80.97	2086731.678	6011610.506		270.00	2°58'30"	134.99	1.17						
	CLOTHOID	SC	363+70.94	2086643.432	6011592.705											
C112	ARC	SC	363+70.94	2086643.432	6011592.705											
	ARC	PI	365+34.64	2086482.969	6011560.337	2600.00	326.94	7°12'19"			75	3.25	5.43	2°12'14"		
	ARC	CC		2086129.322	6014141.370											
	ARC	CS	366+97.88	2086319.713	6011548.350											
	CLOTHOID	CS	366+97.88	2086319.713	6011548.350										S 4°11'58" W	S 1°13'28" W
	CLOTHOID	SPI	367+87.91	2086229.932	6011541.758		270.00	2°58'30"	134.99	1.17						
	CLOTHOID	ST	369+67.88	2086049.947	6011537.911											
	TANGENT	ST	369+67.88	2086049.947	6011537.911		1311.17							S 1°13'28" W		
	TANGENT	TS	382+79.05	2084739.078	6011509.894											
	CLOTHOID	TS	382+79.05	2084739.078	6011509.894										S 1°13'28" W	S 1°09'37" W
	CLOTHOID	SPI	383+35.72	2084682.425	6011508.683		85.00	0°03'51"	42.50	0.01						
	CLOTHOID	SC	383+64.05	2084654.097	6011508.109											

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 ALTERNATIVE B  
 BOOK B4  
 SHEET 60 OF 146

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 1111 Broadway  
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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C110 TO C112

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0003
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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 (EA) (IN)	TNGT BEARING/ CHRD DEG. CV. (0°00'00")	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	TANGENT	POB	358+24.10	2087174.238	6011723.967		259.01							S 14°22'46" W		
	TANGENT	TS	360+83.11	2086923.347	6011659.645											
	CLOTHOID	TS	360+83.11	2086923.347	6011659.645										S 14°22'46" W	S 9°46'15" W
	CLOTHOID	SPI	363+29.86	2086684.327	6011598.366		370.00	4°36'31"	184.96	2.48						
	CLOTHOID	SC	364+53.11	2086562.707	6011577.422											
C201	ARC	SC	364+53.11	2086562.707	6011577.422											
	ARC	PI	365+32.18	2086484.779	6011564.003	2300.00	158.08	3°56'17"			70	4.25	4.29	2°29'29"		
	ARC	CC	366+11.18	2086172.376	6013844.059											
	ARC	CS	366+11.18	2086406.114	6011555.967											
	CLOTHOID	CS	366+11.18	2086406.114	6011555.967										S 5°49'58" W	S 1°13'27" W
	CLOTHOID	SPI	367+34.59	2086283.343	6011543.425		370.00	4°36'31"	184.96	2.48						
	CLOTHOID	ST	369+81.18	2086036.649	6011538.153											
	TANGENT	ST	369+81.18	2086036.649	6011538.153		1255.79							S 1°13'27" W		
	TANGENT	TS	382+36.97	2084781.149	6011511.324											
	CLOTHOID	TS	382+36.97	2084781.149	6011511.324										S 1°13'27" W	S 1°08'41" W
	CLOTHOID	SPI	383+03.63	2084714.497	6011509.900		100.00	0°04'46"	50.00	0.01						
	CLOTHOID	SC	383+36.97	2084681.171	6011509.234											
C202	ARC	SC	383+36.97	2084681.171	6011509.234											
	ARC	PI	384+07.72	2084610.437	6011507.821	36000.00	141.49	0°13'31"			110	0.75	0.60	0°09'33"		
	ARC	CC	384+78.46	2083962.037	6047502.051											
	ARC	CS	384+78.46	2084539.699	6011506.685											
	CLOTHOID	CS	384+78.46	2084539.699	6011506.685										S 0°55'10" W	S 0°50'23" W
	CLOTHOID	SPI	385+11.80	2084506.370	6011506.151		100.00	0°04'46"	50.00	0.01						
	CLOTHOID	ST	385+78.46	2084439.711	6011505.173											
	TANGENT	ST	385+78.46	2084439.711	6011505.173		105.72							S 0°50'23" W		
	TANGENT	TS	386+84.18	2084334.000	6011503.624											
	CLOTHOID	TS	386+84.18	2084334.000	6011503.624										S 0°50'23" W	S 0°55'10" W
	CLOTHOID	SPI	387+50.85	2084267.340	6011502.647		100.00	0°04'46"	50.00	0.01						
	CLOTHOID	SC	387+84.18	2084234.011	6011502.112											
C203	ARC	SC	387+84.18	2084234.011	6011502.112											
	ARC	PI	388+54.93	2084163.273	6011500.977	36000.00	141.49	0°13'31"			110	0.75	0.60	0°09'33"		
	ARC	CC	389+25.68	2084811.673	5975506.747											
	ARC	CS	389+25.68	2084092.539	6011499.563											
	CLOTHOID	CS	389+25.68	2084092.539	6011499.563										S 1°08'41" W	S 1°13'27" W
	CLOTHOID	SPI	389+59.01	2084059.213	6011498.897		100.00	0°04'46"	50.00	0.01						
	CLOTHOID	ST	390+25.68	2083992.561	6011497.473											
	TANGENT	ST	390+25.68	2083992.561	6011497.473		2471.78							S 1°13'27" W		
	TANGENT	TS	414+97.46	2081521.341	6011444.665											
	CLOTHOID	TS	414+97.46	2081521.341	6011444.665										S 1°13'27" W	S 1°08'45" E
	CLOTHOID	SPI	418+00.82	2081218.049	6011438.183		455.00	2°22'12"	227.49	1.57						
	CLOTHOID	SC	419+52.46	2081066.388	6011441.217											
C204	ARC	SC	419+52.46	2081066.388	6011441.217											
	ARC	PI	433+76.77	2079642.368	6011469.697	5500.00	2787.34	29°02'14"			100	3.75	3.54	1°02'30"		
	ARC	CC	447+39.80	2081176.367	6016940.117											
	ARC	CS	447+39.80	2078411.166	6012185.786											
	CLOTHOID	CS	447+39.80	2078411.166	6012185.786										S 30°10'59" E	S 32°33'11" E
	CLOTHOID	SPI	448+91.49	2078280.040	6012262.051		455.00	2°22'12"	227.49	1.57						
	CLOTHOID	ST	451+94.80	2078024.339	6012425.283											
	TANGENT	ST	451+94.80	2078024.339	6012425.283		1844.17							S 32°33'11" E		
	TANGENT	TS	470+38.97	2076469.897	6013417.594											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 61 OF 146**

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 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C201 TO C204

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0051
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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 (EA) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	CLOTHOID	TS	470+38.97	2076469.897	6013417.594										S 32°33'11" E	S 32°43'30" E
	CLOTHOID	SPI	471+38.97	2076385.607	6013471.402		150.00	0°10'19"	75.00	0.04						
	CLOTHOID	SC	471+88.97	2076343.544	6013498.433											
C205	ARC	SC	471+88.97	2076343.544	6013498.433											
	ARC	PI	472+49.39	2076292.714	6013531.096	25000.00	120.84	0°16'37"			110	1.25	0.69	0°13'45"		
	ARC	CC		2089858.685	6034530.336											
	ARC	CS	473+09.81	2076242.042	6013564.005											
	CLOTHOID	CS	473+09.81	2076242.042	6013564.005										S 33°00'07" E	S 33°10'25" E
	CLOTHOID	SPI	473+59.81	2076200.110	6013591.238		150.00	0°10'19"	75.00	0.04						
	CLOTHOID	ST	474+59.81	2076116.408	6013645.956											
	TANGENT	ST	474+59.81	2076116.408	6013645.956		1103.10							S 33°10'25" E		
	TANGENT	TS	485+62.91	2075193.098	6014249.549											
	CLOTHOID	TS	485+62.91	2075193.098	6014249.549										S 33°10'25" E	S 26°48'30" E
	CLOTHOID	SPI	489+44.49	2074873.709	6014458.341		572.00	6°21'55"	285.88	5.29						
	CLOTHOID	SC	491+34.91	2074703.335	6014544.435											
C206	ARC	SC	491+34.91	2074703.335	6014544.435											
	ARC	PI	505+15.56	2073471.083	6015167.116	2574.34	2534.39	56°24'36"			85	6.00	5.26	2°13'33"		
	ARC	CC		2073542.285	6012246.780											
	ARC	PCC	516+69.30	2072270.640	6014485.122											
	ARC	PCC	516+69.30	2072270.640	6014485.122											
	ARC	PI	517+63.71	2072188.558	6014438.489	2753.29	188.72	3°55'39"			85	6.00	4.52	2°04'52"		
	ARC	CC		2073630.678	6012091.191											
	ARC	CS	518+58.03	2072109.863	6014386.344											
	CLOTHOID	CS	518+58.03	2072109.863	6014386.344										S 33°31'45" W	S 38°43'54" W
	CLOTHOID	SPI	520+24.82	2071970.820	6014294.211		500.00	5°12'09"	249.93	3.78						
	CLOTHOID	ST	523+58.03	2071710.680	6014085.563											
	TANGENT	ST	523+58.03	2071710.680	6014085.563		1138.13							S 38°43'54" W		
	TANGENT	PI*	534+96.16	2070822.840	6013373.461											
	TANGENT	PI*	534+96.16	2070822.840	6013373.461		489.52							S 38°42'58" W		
	TANGENT	POE	539+85.68	2070440.888	6013067.284											
	TANGENT	POB	1071+00.00	2032209.006	6034980.780		1521.82							S 39°51'55" E		
	TANGENT	TS	1086+21.82	2031040.925	6035956.247											
	CLOTHOID	TS	1086+21.82	2031040.925	6035956.247										S 39°51'55" E	S 37°11'29" E
	CLOTHOID	SPI	1089+25.19	2030808.074	6036150.701		455.00	2°40'26"	227.48	1.77						
	CLOTHOID	SC	1090+76.82	2030687.228	6036242.400											
C207	ARC	SC	1090+76.82	2030687.228	6036242.400											
	ARC	PI	1096+67.33	2030216.820	6036599.349	4875.00	1175.27	13°48'47"			110	5.50	4.45	1°10'31"		
	ARC	CC		2027740.383	6032358.880											
	ARC	CS	1102+52.09	2029674.792	6036833.663											
	CLOTHOID	CS	1102+52.09	2029674.792	6036833.663										S 23°22'42" E	S 20°42'17" E
	CLOTHOID	SPI	1104+03.79	2029535.547	6036893.857		455.00	2°40'26"	227.48	1.77						
	CLOTHOID	ST	1107+07.09	2029251.772	6037001.113											
	TANGENT	ST	1107+07.09	2029251.772	6037001.113		582.71							S 20°42'17" E		
	TANGENT	TS	1112+89.80	2028706.695	6037207.131											
	CLOTHOID	TS	1112+89.80	2028706.695	6037207.131										S 20°42'17" E	S 21°46'02" E
	CLOTHOID	SPI	1114+59.80	2028547.671	6037267.235		255.00	1°03'45"	127.50	0.39						

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 62 OF 146

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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C205 TO C207

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0052
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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
	ARC	PCC	516+83.94	2072270.640	6014485.122											
	ARC	PCC	516+83.94	2072270.640	6014485.122											
	ARC	PI	517+78.35	2072188.558	6014438.489	2753.29	188.72	3°55'39"			85	6.00	4.52	2°04'52"		
	ARC	CC		2073630.678	6012091.191											
	ARC	CS	518+72.67	2072109.863	6014386.344											
	CLOTHOID	CS	518+72.67	2072109.863	6014386.344										S 33°31'45" W	S 38°43'54" W
	CLOTHOID	SPI	520+39.46	2071970.820	6014294.211		500.00	5°12'09"	249.93	3.78						
	CLOTHOID	ST	523+72.67	2071710.680	6014085.563											
	TANGENT	ST	523+72.67	2071710.680	6014085.563		1138.13							S 38°43'54" W		
	TANGENT	PI*	535+10.80	2070822.840	6013373.461											
	TANGENT	PI*	535+10.80	2070822.840	6013373.461		3899.25							S 38°42'58" W		
EON		BK	540+00.32	2070440.888	6013067.284											
EON		AHD	542+50.00													
	TANGENT	TS	576+59.73	2067780.429	6010934.627											
	CLOTHOID	TS	576+59.73	2067780.429	6010934.627										S 38°42'58" W	S 39°17'58" W
	CLOTHOID	SPI	577+76.40	2067689.399	6010861.657		175.00	0°35'00"	87.50	0.15						
	CLOTHOID	SC	578+34.73	2067644.258	6010824.709											
C118	ARC	SC	578+34.73	2067644.258	6010824.709											
	ARC	PI	578+95.96	2067596.872	6010785.925	8594.42	122.47	0°48'59"			100	2.00	2.67	0°40'00"		
	ARC	CC		2073087.731	6004173.946											
	ARC	CS	579+57.20	2067550.044	6010746.470											
	CLOTHOID	CS	579+57.20	2067550.044	6010746.470										S 40°06'57" W	S 40°41'57" W
	CLOTHOID	SPI	580+15.53	2067505.433	6010708.884		175.00	0°35'00"	87.50	0.15						
	CLOTHOID	ST	581+32.20	2067416.983	6010632.806											
	TANGENT	ST	581+32.20	2067416.983	6010632.806		183.13							S 40°41'57" W		
	TANGENT	TS	583+15.33	2067278.143	6010513.389											
	CLOTHOID	TS	583+15.33	2067278.143	6010513.389										S 40°41'57" W	S 40°06'57" W
	CLOTHOID	SPI	584+31.99	2067189.692	6010437.312		175.00	0°35'00"	87.50	0.15						
	CLOTHOID	SC	584+90.33	2067145.082	6010399.725											
C119	ARC	SC	584+90.33	2067145.082	6010399.725											
	ARC	PI	585+53.29	2067096.932	6010359.157	8594.42	125.92	0°50'22"			100	2.00	2.67	0°40'00"		
	ARC	CC		2061607.394	6016972.249											
	ARC	CS	586+16.25	2067048.193	6010319.298											
	CLOTHOID	CS	586+16.25	2067048.193	6010319.298										S 39°16'35" W	S 38°41'35" W
	CLOTHOID	SPI	586+74.58	2067003.037	6010282.369		175.00	0°35'00"	87.50	0.15						
	CLOTHOID	ST	587+91.25	2066911.977	6010209.434											
	TANGENT	ST	587+91.25	2066911.977	6010209.434		699.54							S 38°41'35" W		
	TANGENT	TS	594+90.79	2066365.983	6009772.119											
	CLOTHOID	TS	594+90.79	2066365.983	6009772.119										S 38°41'35" W	S 37°13'50" W
	CLOTHOID	SPI	596+70.79	2066225.487	6009659.588		270.00	1°27'45"	135.00	0.57						
	CLOTHOID	SC	597+60.79	2066153.824	6009605.133											
C120	ARC	SC	597+60.79	2066153.824	6009605.133											
	ARC	PI	599+35.39	2066014.805	6009499.495	5288.92	349.07	3°46'54"			100	3.25	4.33	1°05'00"		
	ARC	CC		2062953.900	6013816.209											
	ARC	CS	601+09.86	2065869.122	6009403.256											
	CLOTHOID	CS	601+09.86	2065869.122	6009403.256										S 33°26'56" W	S 31°59'11" W
	CLOTHOID	SPI	601+99.86	2065794.023	6009353.645		270.00	1°27'45"	135.00	0.57						
	CLOTHOID	ST	603+79.86	2065641.347	6009258.293											
	TANGENT	ST	603+79.86	2065641.347	6009258.293		119.05							S 31°59'11" W		
	TANGENT	TS	604+98.91	2065540.373	6009195.230											
	CLOTHOID	TS	604+98.91	2065540.373	6009195.230										S 31°59'11" W	S 32°38'49" W
	CLOTHOID	SPI	606+22.24	2065435.764	6009129.897		185.00	0°39'38"	92.50	0.18						
	CLOTHOID	SC	606+83.91	2065383.840	6009096.630											

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 63 OF 146

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C118 TO C120

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0005
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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
C121	ARC	SC	606+83.91	2065383.840	6009096.630											
	ARC	PI	607+40.60	2065336.104	6009066.047	8025.00	113.38	0°48'34"			100	2.00	3.00	0°42'50"		
	ARC	CC		2069713.011	6002339.493											
	ARC	CS	607+97.29	2065288.806	6009034.793											
	CLOTHOID	CS	607+97.29	2065288.806	6009034.793										S 33°27'23" W	S 34°07'01" W
	CLOTHOID	SPI	608+58.95	2065237.356	6009000.795		185.00	0°39'38"	92.50	0.18						
	CLOTHOID	ST	609+82.29	2065135.248	6008931.619											
	TANGENT	ST	609+82.29	2065135.248	6008931.619		248.31							S 34°07'01" W		
	TANGENT	TS	612+30.60	2064929.674	6008792.347											
	CLOTHOID	TS	612+30.60	2064929.674	6008792.347										S 34°07'01" W	S 32°16'28" W
	CLOTHOID	SPI	614+57.74	2064741.621	6008664.945		340.70	1°50'33"	170.34	0.91						
	CLOTHOID	SC	615+71.30	2064645.591	6008604.297											
C122	ARC	SC	615+71.30	2064645.591	6008604.297											
	ARC	PI	622+01.73	2064112.562	6008267.664	5297.23	1254.94	13°34'26"			110	3.50	5.66	1°04'54"		
	ARC	CC		2061817.010	6013083.113											
	ARC	PCC	628+26.24	2063515.414	6008065.535											
	ARC	PCC	628+26.24	2063515.414	6008065.535											
	ARC	PI	633+41.45	2063027.398	6007900.347	5531.07	1027.45	10°38'36"			110	3.50	5.27	1°02'09"		
	ARC	CC		2061742.037	6013304.607											
	ARC	PCC	638+53.69	2062517.269	6007828.134											
	ARC	PCC	638+53.69	2062517.269	6007828.134											
	ARC	PI	641+57.98	2062215.981	6007785.485	5854.43	608.03	5°57'03"			110	3.50	4.79	0°58'43"		
	ARC	CC		2061696.715	6013624.771											
	ARC	CS	644+61.72	2061911.894	6007774.301											
	CLOTHOID	CS	644+61.72	2061911.894	6007774.301										S 2°06'23" W	S 0°38'58" W
	CLOTHOID	SPI	645+60.96	2061812.717	6007770.653		297.71	1°27'25"	148.85	0.63						
	CLOTHOID	ST	647+59.43	2061614.247	6007768.403											
	TANGENT	ST	647+59.43	2061614.247	6007768.403		2025.56							S 0°38'58" W		
EON		BK	662+50.02	2060123.753	6007751.505											
EON		AHD	665+00.00													
	TANGENT	TS	670+34.97	2059588.813	6007745.440											
	CLOTHOID	TS	670+34.97	2059588.813	6007745.440										S 0°38'58" W	S 3°20'05" E
	CLOTHOID	SPI	673+68.39	2059255.417	6007741.660		500.00	3°59'04"	249.96	2.90						
	CLOTHOID	SC	675+34.97	2059088.956	6007751.360											
C123	ARC	SC	675+34.97	2059088.956	6007751.360											
	ARC	PI	680+44.12	2058580.670	6007780.978	3595.00	1011.54	16°07'19"			100	6.00	5.16	1°35'38"		
	ARC	CC		2059298.082	6011340.272											
	ARC	CS	685+46.51	2058100.598	6007950.574											
	CLOTHOID	CS	685+46.51	2058100.598	6007950.574										S 19°27'25" E	S 23°26'29" E
	CLOTHOID	SPI	687+13.25	2057943.377	6008006.115		500.00	3°59'04"	249.96	2.90						
	CLOTHOID	ST	690+46.51	2057637.477	6008138.752											
	TANGENT	ST	690+46.51	2057637.477	6008138.752		2571.51							S 23°26'29" E		
	TANGENT	TS	716+18.02	2055278.202	6009161.719											
	CLOTHOID	TS	716+18.02	2055278.202	6009161.719										S 23°26'29" E	S 25°00'14" E
	CLOTHOID	SPI	718+68.03	2055048.826	6009261.176		375.00	1°33'45"	187.50	0.85						
	CLOTHOID	SC	719+93.02	2054935.533	6009314.014											
C124	ARC	SC	719+93.02	2054935.533	6009314.014											
	ARC	PI	721+88.09	2054758.738	6009396.469	6875.55	390.05	3°15'01"			110	3.00	4.06	0°50'00"		
	ARC	CC		2057841.674	6015545.188											
	ARC	CS	723+83.06	2054586.904	6009488.815											
	CLOTHOID	CS	723+83.06	2054586.904	6009488.815										S 28°15'15" E	S 29°49'00" E
	CLOTHOID	SPI	725+08.07	2054476.789	6009547.992		375.00	1°33'45"	187.50	0.85						
	CLOTHOID	ST	727+58.06	2054259.875	6009672.303											

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 64 OF 146

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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C121 TO C124

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0006
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	727+58.06	2054259.875	6009672.303		231.30							S 29°49'00" E		
	TANGENT	TS	729+89.36	2054059.191	6009787.313											
	CLOTHOID	TS	729+89.36	2054059.191	6009787.313										S 29°49'00" E	S 30°04'02" E
	CLOTHOID	SPI	730+82.70	2053978.213	6009833.721		140.00	0°15'02"	70.00	0.05						
	CLOTHOID	SC	731+29.36	2053937.826	6009857.102											
	ARC	SC	731+29.36	2053937.826	6009857.102											
C125	ARC	PI	732+05.67	2053871.785	6009895.334	16000.00	152.62	0°32'47"			110	1.50	1.53	0°21'29"		
	ARC	CC		2061954.094	6023704.103											
	ARC	CS	732+81.98	2053806.112	6009934.194											
	CLOTHOID	CS	732+81.98	2053806.112	6009934.194										S 30°36'50" E	S 30°51'52" E
	CLOTHOID	SPI	733+28.65	2053765.950	6009957.959		140.00	0°15'02"	70.00	0.05						
	CLOTHOID	ST	734+21.98	2053685.834	6010005.840											
	TANGENT	ST	734+21.98	2053685.834	6010005.840		110.16							S 30°51'52" E		
	TANGENT	TS	735+32.14	2053591.275	6010062.353											
	CLOTHOID	TS	735+32.14	2053591.275	6010062.353										S 30°51'52" E	S 30°36'50" E
	CLOTHOID	SPI	736+25.47	2053511.159	6010110.234		140.00	0°15'02"	70.00	0.05						
	CLOTHOID	SC	736+72.14	2053470.997	6010133.999											
	ARC	SC	736+72.14	2053470.997	6010133.999											
C126	ARC	PI	737+46.74	2053406.796	6010171.988	16000.00	149.19	0°32'03"			110	1.50	1.53	0°21'29"		
	ARC	CC		2045323.015	5996364.090											
	ARC	CS	738+21.33	2053342.245	6010209.376											
	CLOTHOID	CS	738+21.33	2053342.245	6010209.376										S 30°04'46" E	S 29°49'44" E
	CLOTHOID	SPI	738+68.00	2053301.863	6010232.766		140.00	0°15'02"	70.00	0.05						
	CLOTHOID	ST	739+61.33	2053220.895	6010279.191											
	TANGENT	ST	739+61.33	2053220.895	6010279.191		2187.15							S 29°49'44" E		
	TANGENT	TS	761+48.49	2051323.509	6011367.104											
	CLOTHOID	TS	761+48.49	2051323.509	6011367.104										S 29°49'44" E	S 31°07'44" E
	CLOTHOID	SPI	763+21.82	2051173.136	6011453.324		260.00	1°18'00"	130.00	0.49						
	CLOTHOID	SC	764+08.49	2051098.945	6011498.130											
	ARC	SC	764+08.49	2051098.945	6011498.130											
C127	ARC	PI	766+78.29	2050867.991	6011637.608	5730.00	539.20	5°23'30"			100	2.75	4.25	1°00'00"		
	ARC	CC		2054061.145	6016403.053											
	ARC	CS	769+47.69	2050651.165	6011798.171											
	CLOTHOID	CS	769+47.69	2050651.165	6011798.171										S 36°31'14" E	S 37°49'13" E
	CLOTHOID	SPI	770+34.36	2050581.513	6011849.750		260.00	1°18'00"	130.00	0.49						
	CLOTHOID	ST	772+07.69	2050444.587	6011956.039											
	TANGENT	ST	772+07.69	2050444.587	6011956.039		2410.79							S 37°49'13" E		
	TANGENT	TS	796+18.47	2048540.216	6013434.305											
	CLOTHOID	TS	796+18.47	2048540.216	6013434.305										S 37°49'13" E	S 37°21'06" E
	CLOTHOID	SPI	797+38.47	2048445.424	6013507.887		180.00	0°28'08"	90.00	0.12						
	CLOTHOID	SC	797+98.47	2048397.728	6013544.290											
	ARC	SC	797+98.47	2048397.728	6013544.290											
C128	ARC	PI	799+08.41	2048310.340	6013610.986	11000.00	219.85	1°08'43"			110	2.00	2.41	0°31'15"		
	ARC	CC		2041723.979	6004800.087											
	ARC	CS	800+18.33	2048221.638	6013675.921											
	CLOTHOID	CS	800+18.33	2048221.638	6013675.921										S 36°12'23" E	S 35°44'16" E
	CLOTHOID	SPI	800+78.33	2048173.224	6013711.363		180.00	0°28'08"	90.00	0.12						
	CLOTHOID	ST	801+98.33	2048075.819	6013781.453											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 65 OF 146**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C125 TO C128

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0007
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	801+98.33	2048075.819	6013781.453		644.56							S 35°44'16" E		
	TANGENT	TS	808+42.89	2047552.629	6014157.924											
	CLOTHOID	TS	808+42.89	2047552.629	6014157.924										S 35°44'16" E	S 36°12'23" E
	CLOTHOID	SPI	809+62.89	2047455.225	6014228.014		180.00	0°28'08"	90.00	0.12						
	CLOTHOID	SC	810+22.89	2047406.811	6014263.456											
	ARC	SC	810+22.89	2047406.811	6014263.456											
C129	ARC	PI	811+32.82	2047318.108	6014328.391	11000.00	219.85	1°08'43"			110	2.00	2.41	0°31'15"		
	ARC	CC		2053904.470	6023139.290											
	ARC	CS	812+42.74	2047230.721	6014395.087											
	CLOTHOID	CS	812+42.74	2047230.721	6014395.087										S 37°21'06" E	S 37°49'13" E
	CLOTHOID	SPI	813+02.74	2047183.025	6014431.490		180.00	0°28'08"	90.00	0.12						
	CLOTHOID	ST	814+22.74	2047088.232	6014505.072											
	TANGENT	ST	814+22.74	2047088.232	6014505.072		1576.46							S 37°49'13" E		
	TANGENT	TS	829+99.21	2045842.926	6015471.741											
	CLOTHOID	TS	829+99.21	2045842.926	6015471.741										S 37°49'13" E	S 41°24'05" E
	CLOTHOID	SPI	833+32.61	2045579.559	6015676.179		500.00	3°34'52"	249.97	2.60						
	CLOTHOID	SC	834+99.21	2045454.497	6015786.441											
	ARC	SC	834+99.21	2045454.497	6015786.441											
C130	ARC	PI	840+95.11	2045007.514	6016180.529	4000.00	1183.07	16°56'48"			105	6.00	5.05	1°25'57"		
	ARC	CC		2048099.816	6018786.823											
	ARC	CS	846+82.28	2044694.810	6016687.791											
	CLOTHOID	CS	846+82.28	2044694.810	6016687.791										S 58°20'53" E	S 61°55'45" E
	CLOTHOID	SPI	848+49.01	2044607.317	6016829.719		500.00	3°34'52"	249.97	2.60						
	CLOTHOID	ST	851+82.28	2044450.430	6017123.902											
	TANGENT	ST	851+82.28	2044450.430	6017123.902		1040.80							S 61°55'45" E		
	TANGENT	TS	862+23.08	2043960.668	6018042.266											
	CLOTHOID	TS	862+23.08	2043960.668	6018042.266										S 61°55'45" E	S 61°48'31" E
	CLOTHOID	SPI	862+93.08	2043927.728	6018104.032		105.00	0°07'13"	52.50	0.02						
	CLOTHOID	SC	863+28.08	2043911.193	6018134.880											
	ARC	SC	863+28.08	2043911.193	6018134.880											
C131	ARC	PI	864+69.30	2043844.478	6018259.350	25000.00	282.44	0°38'50"			110	1.25	0.69	0°13'45"		
	ARC	CC		2021876.809	6006324.465											
	ARC	CS	866+10.52	2043776.360	6018383.058											
	CLOTHOID	CS	866+10.52	2043776.360	6018383.058										S 61°09'41" E	S 61°02'28" E
	CLOTHOID	SPI	866+45.52	2043759.478	6018413.718		105.00	0°07'13"	52.50	0.02						
	CLOTHOID	ST	867+15.52	2043725.585	6018474.965											
	TANGENT	ST	867+15.52	2043725.585	6018474.965		222.94							S 61°02'28" E		
	TANGENT	PI*	869+38.46	2043617.641	6018670.031											
	TANGENT	PI*	869+38.46	2043617.641	6018670.031		1082.63							S 61°01'30" E		
	TANGENT	PI*	880+21.09	2043093.187	6019617.148											
	TANGENT	PI*	880+21.09	2043093.187	6019617.148		393.23							S 60°59'05" E		
	TANGENT	PI*	884+14.32	2042902.454	6019961.025											
	TANGENT	PI*	884+14.32	2042902.454	6019961.025		345.09							S 61°04'33" E		
	TANGENT	PI*	887+59.41	2042735.549	6020263.072											
	TANGENT	PI*	887+59.41	2042735.549	6020263.072		1691.72							S 61°02'16" E		
	TANGENT	PI*	904+51.13	2041916.359	6021743.224											
	TANGENT	PI*	904+51.13	2041916.359	6021743.224		1162.95							S 61°01'49" E		

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 ALTERNATIVE B  
 BOOK B4  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C129 TO C131

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0008
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	PI*	916+14.08	2041353.090	6022760.659											
	TANGENT	PI*	916+14.08	2041353.090	6022760.659		898.08							S 61°02'27" E		
	TANGENT	PI*	925+12.16	2040918.251	6023546.450											
	TANGENT	PI*	925+12.16	2040918.251	6023546.450		1093.77							S 61°02'10" E		
	TANGENT	PI*	936+05.93	2040388.586	6024503.412											
	TANGENT	PI*	936+05.93	2040388.586	6024503.412		1199.85							S 61°01'50" E		
	TANGENT	PI*	948+05.78	2039807.446	6025553.137											
	TANGENT	PI*	948+05.78	2039807.446	6025553.137		977.51							S 61°02'27" E		
	TANGENT	PI*	957+83.29	2039334.148	6026408.423											
	TANGENT	PI*	957+83.29	2039334.148	6026408.423		1445.58							S 61°01'34" E		
	TANGENT	PI*	972+28.87	2038633.893	6027673.071											
	TANGENT	PI*	972+28.87	2038633.893	6027673.071		450.63							S 60°59'57" E		
	TANGENT	PI*	976+79.49	2038415.420	6028067.194											
	TANGENT	PI*	976+79.49	2038415.420	6028067.194		992.35							S 61°01'27" E		
	TANGENT	PI*	986+71.85	2037934.684	6028935.329											
	TANGENT	PI*	986+71.85	2037934.684	6028935.329		508.62							S 61°00'50" E		
	TANGENT	PI*	991+80.46	2037688.210	6029380.234											
	TANGENT	PI*	991+80.46	2037688.210	6029380.234		267.25							S 61°03'31" E		
	TANGENT	PI*	994+47.71	2037558.883	6029614.110											
	TANGENT	PI*	994+47.71	2037558.883	6029614.110		326.03							S 61°00'22" E		
	TANGENT	PI*	997+73.74	2037400.851	6029899.280											
	TANGENT	PI*	997+73.74	2037400.851	6029899.280		330.57							S 60°58'32" E		
	TANGENT	TS	1001+04.31	2037240.466	6030188.331											
	CLOTHOID	TS	1001+04.31	2037240.466	6030188.331										S 60°58'32" E	S 57°53'47" E
	CLOTHOID	SPI	1004+66.36	2037064.804	6030504.917		543.00	3°04'45"	271.47	2.43						
	CLOTHOID	SC	1006+47.31	2036968.584	6030658.282											
	ARC	SC	1006+47.31	2036968.584	6030658.282											
C132	ARC	PI	1007+72.04	2036902.295	6030763.942	5051.85	249.41	2°49'44"			100	3.50	4.44	1°08'03"		
	ARC	CC		2032689.222	6027973.469											
	ARC	PCC	1008+96.72	2036830.872	6030866.202											
	ARC	PCC	1008+96.72	2036830.872	6030866.202											
	ARC	PI	1010+12.64	2036764.495	6030961.236	6250.52	231.81	2°07'30"			100	3.50	2.92	0°55'00"		
	ARC	CC		2031706.516	6027287.099											
	ARC	PCC	1011+28.53	2036694.641	6031053.744											
	ARC	PCC	1011+28.53	2036694.641	6031053.744											
	ARC	PI	1017+08.81	2036344.954	6031516.829	5690.88	1156.56	11°38'40"			100	3.50	3.55	1°00'25"		
	ARC	CC		2032153.128	6027624.345											
	ARC	CS	1022+85.09	2035908.997	6031899.805											
	CLOTHOID	CS	1022+85.09	2035908.997	6031899.805										S 41°17'54" E	S 39°50'19" E
	CLOTHOID	SPI	1023+81.76	2035836.368	6031963.607		290.00	1°27'35"	145.00	0.62						
	CLOTHOID	ST	1025+75.09	2035687.912	6032087.466											
	TANGENT	ST	1025+75.09	2035687.912	6032087.466		748.74							S 39°50'19" E		
	TANGENT	TS	1033+23.83	2035112.986	6032567.131											
	CLOTHOID	TS	1033+23.83	2035112.986	6032567.131										S 39°50'19" E	S 39°39'04" E
	CLOTHOID	SPI	1033+57.16	2035087.391	6032588.486		50.00	0°11'15"	25.00	0.01						
	CLOTHOID	SC	1033+73.83	2035074.558	6032599.121											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 67 OF 146**

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REV	DATE	BY	CHK	APP	DESCRIPTION

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


 1111 Broadway  
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 Oakland, CA 94607


**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C132

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0009
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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
C133	ARC	SC	1033+73.83	2035074.558	6032599.121											
	ARC	PI	1034+49.35	2035016.415	6032647.309	7639.49	151.03	1°07'58"			79	0.50	2.78	0°45'00"		
	ARC	CC		2030199.725	6026717.131											
	ARC	CS	1035+24.86	2034957.330	6032694.338											
	CLOTHOID	CS	1035+24.86	2034957.330	6032694.338										S 38°31'06" E	S 38°19'51" E
	CLOTHOID	SPI	1035+41.52	2034944.290	6032704.717		50.00	0°11'15"	25.00	0.01						
	CLOTHOID	ST	1035+74.86	2034918.142	6032725.390											
	TANGENT	ST	1035+74.86	2034918.142	6032725.390		97.11							S 38°19'51" E		
	TANGENT	TS	1036+71.97	2034841.963	6032785.619											
	CLOTHOID	TS	1036+71.97	2034841.963	6032785.619										S 38°19'51" E	S 38°34'26" E
	CLOTHOID	SPI	1037+05.30	2034815.815	6032806.292		50.00	0°14'35"	25.00	0.02						
	CLOTHOID	SC	1037+21.97	2034802.785	6032816.684											
C134	ARC	SC	1037+21.97	2034802.785	6032816.684											
	ARC	PI	1037+75.90	2034760.619	6032850.313	5894.42	107.86	1°02'55"			79	0.50	3.75	0°58'19"		
	ARC	CC		2038478.089	6037424.974											
	ARC	CS	1038+29.83	2034719.076	6032884.708											
	CLOTHOID	CS	1038+29.83	2034719.076	6032884.708										S 39°37'20" E	S 39°51'55" E
	CLOTHOID	SPI	1038+46.50	2034706.238	6032895.337		50.00	0°14'35"	25.00	0.02						
	CLOTHOID	ST	1038+79.83	2034680.653	6032916.703											
	TANGENT	ST	1038+79.83	2034680.653	6032916.703		4781.43							S 39°51'55" E		
	TANGENT	TS	1086+61.26	2031010.652	6035981.528											
	CLOTHOID	TS	1086+61.26	2031010.652	6035981.528										S 39°51'55" E	S 37°11'29" E
	CLOTHOID	SPI	1089+64.63	2030777.801	6036175.982		455.00	2°40'26"	227.48	1.77						
	CLOTHOID	SC	1091+16.26	2030656.955	6036267.681											
C135	ARC	SC	1091+16.26	2030656.955	6036267.681											
	ARC	PI	1097+14.92	2030180.053	6036629.558	4875.00	1191.33	14°00'07"			110	5.50	4.45	1°10'31"		
	ARC	CC		2027710.109	6032384.161											
	ARC	CS	1103+07.59	2029629.764	6036865.294											
	CLOTHOID	CS	1103+07.59	2029629.764	6036865.294										S 23°11'23" E	S 20°30'57" E
	CLOTHOID	SPI	1104+59.29	2029490.322	6036925.029		455.00	2°40'26"	227.48	1.77						
	CLOTHOID	ST	1107+62.59	2029206.195	6037031.349											
	TANGENT	ST	1107+62.59	2029206.195	6037031.349		624.40							S 20°30'57" E		
	TANGENT	TS	1113+86.99	2028621.397	6037250.180											
	CLOTHOID	TS	1113+86.99	2028621.397	6037250.180										S 20°30'57" E	S 21°33'42" E
	CLOTHOID	SPI	1115+54.33	2028464.674	6037308.826		251.00	1°02'45"	125.50	0.38						
	CLOTHOID	SC	1116+37.99	2028386.859	6037339.574											
C136	ARC	SC	1116+37.99	2028386.859	6037339.574											
	ARC	PI	1122+57.52	2027810.683	6037567.253	6875.00	1235.71	10°17'54"			110	3.00	4.06	0°50'00"		
	ARC	CC		2030913.444	6043733.477											
	ARC	CS	1128+73.70	2027284.493	6037894.270											
	CLOTHOID	CS	1128+73.70	2027284.493	6037894.270										S 31°51'36" E	S 32°54'22" E
	CLOTHOID	SPI	1129+57.37	2027213.429	6037938.435		251.00	1°02'45"	125.50	0.38						
	CLOTHOID	ST	1131+24.70	2027072.940	6038029.343											
	TANGENT	ST	1131+24.70	2027072.940	6038029.343		744.08							S 32°54'22" E		
	TANGENT	TS	1138+68.78	2026448.237	6038433.574											
	CLOTHOID	TS	1138+68.78	2026448.237	6038433.574										S 32°54'22" E	S 32°16'52" E
	CLOTHOID	SPI	1140+35.45	2026308.309	6038524.119		250.00	0°37'30"	125.00	0.23						
	CLOTHOID	SC	1141+18.78	2026237.855	6038568.625											
C137	ARC	SC	1141+18.78	2026237.855	6038568.625											
	ARC	PI	1141+72.97	2026192.042	6038597.566	11459.19	108.38	0°32'31"			110	3.00	1.24	0°30'00"		
	ARC	CC		2020117.816	6028880.584											
	ARC	CS	1142+27.16	2026145.958	6038626.072											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 68 OF 146**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C133 TO C137

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0010
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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 (EA) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	CLOTHOID	TS	470+38.97	2076469.897	6013417.594										S 32°33'11" E	S 32°43'30" E
	CLOTHOID	SPI	471+38.97	2076385.607	6013471.402		150.00	0°10'19"	75.00	0.04						
	CLOTHOID	SC	471+88.97	2076343.544	6013498.433											
C205	ARC	SC	471+88.97	2076343.544	6013498.433											
	ARC	PI	472+49.39	2076292.714	6013531.096	25000.00	120.84	0°16'37"			110	1.25	0.69	0°13'45"		
	ARC	CC		2089858.685	6034530.336											
	ARC	CS	473+09.81	2076242.042	6013564.005											
	CLOTHOID	CS	473+09.81	2076242.042	6013564.005										S 33°00'07" E	S 33°10'25" E
	CLOTHOID	SPI	473+59.81	2076200.110	6013591.238		150.00	0°10'19"	75.00	0.04						
	CLOTHOID	ST	474+59.81	2076116.408	6013645.956											
	TANGENT	ST	474+59.81	2076116.408	6013645.956		1103.10							S 33°10'25" E		
	TANGENT	TS	485+62.91	2075193.098	6014249.549											
	CLOTHOID	TS	485+62.91	2075193.098	6014249.549										S 33°10'25" E	S 26°48'30" E
	CLOTHOID	SPI	489+44.49	2074873.709	6014458.341		572.00	6°21'55"	285.88	5.29						
	CLOTHOID	SC	491+34.91	2074703.335	6014544.435											
C206	ARC	SC	491+34.91	2074703.335	6014544.435											
	ARC	PI	505+15.56	2073471.083	6015167.116	2574.34	2534.39	56°24'36"			85	6.00	5.26	2°13'33"		
	ARC	CC		2073542.285	6012246.780											
	ARC	PCC	516+69.30	2072270.640	6014485.122											
	ARC	PCC	516+69.30	2072270.640	6014485.122											
	ARC	PI	517+63.71	2072188.558	6014438.489	2753.29	188.72	3°55'39"			85	6.00	4.52	2°04'52"		
	ARC	CC		2073630.678	6012091.191											
	ARC	CS	518+58.03	2072109.863	6014386.344											
	CLOTHOID	CS	518+58.03	2072109.863	6014386.344										S 33°31'45" W	S 38°43'54" W
	CLOTHOID	SPI	520+24.82	2071970.820	6014294.211		500.00	5°12'09"	249.93	3.78						
	CLOTHOID	ST	523+58.03	2071710.680	6014085.563											
	TANGENT	ST	523+58.03	2071710.680	6014085.563		1138.13							S 38°43'54" W		
	TANGENT	PI*	534+96.16	2070822.840	6013373.461											
	TANGENT	PI*	534+96.16	2070822.840	6013373.461		489.52							S 38°42'58" W		
	TANGENT	POE	539+85.68	2070440.888	6013067.284											
	TANGENT	POB	1071+00.00	2032209.006	6034980.780		1521.82							S 39°51'55" E		
	TANGENT	TS	1086+21.82	2031040.925	6035956.247											
	CLOTHOID	TS	1086+21.82	2031040.925	6035956.247										S 39°51'55" E	S 37°11'29" E
	CLOTHOID	SPI	1089+25.19	2030808.074	6036150.701		455.00	2°40'26"	227.48	1.77						
	CLOTHOID	SC	1090+76.82	2030687.228	6036242.400											
C207	ARC	SC	1090+76.82	2030687.228	6036242.400											
	ARC	PI	1096+67.33	2030216.820	6036599.349	4875.00	1175.27	13°48'47"			110	5.50	4.45	1°10'31"		
	ARC	CC		2027740.383	6032358.880											
	ARC	CS	1102+52.09	2029674.792	6036833.663											
	CLOTHOID	CS	1102+52.09	2029674.792	6036833.663										S 23°22'42" E	S 20°42'17" E
	CLOTHOID	SPI	1104+03.79	2029535.547	6036893.857		455.00	2°40'26"	227.48	1.77						
	CLOTHOID	ST	1107+07.09	2029251.772	6037001.113											
	TANGENT	ST	1107+07.09	2029251.772	6037001.113		582.71							S 20°42'17" E		
	TANGENT	TS	1112+89.80	2028706.695	6037207.131											
	CLOTHOID	TS	1112+89.80	2028706.695	6037207.131										S 20°42'17" E	S 21°46'02" E
	CLOTHOID	SPI	1114+59.80	2028547.671	6037267.235		255.00	1°03'45"	127.50	0.39						

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 69 OF 146

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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C205 TO C207

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0052
SCALE	NONE
SHEET NO.	



TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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 (EA) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	TANGENT	TS	1234+07.42	2019227.245	6044572.008											
	CLOTHOID	TS	1234+07.42	2019227.245	6044572.008										S 48°42'06" E	S 47°59'08" E
	CLOTHOID	SPI	1235+74.08	2019117.248	6044697.222		250.00	0°42'58"	125.00	0.26						
	CLOTHOID	SC	1236+57.42	2019061.470	6044759.138											
C212	ARC	SC	1236+57.42	2019061.470	6044759.138											
	ARC	PI	1240+56.52	2018794.341	6045055.664	10000.00	797.79	4°34'16"			110	2.75	2.10	0°34'23"		
	ARC	CC		2011631.724	6038065.942											
	ARC	CS	1244+55.20	2018504.429	6045329.958											
	CLOTHOID	CS	1244+55.20	2018504.429	6045329.958										S 43°24'52" E	S 42°41'54" E
	CLOTHOID	SPI	1245+38.54	2018443.895	6045387.231		250.00	0°42'58"	125.00	0.26						
	CLOTHOID	ST	1247+05.20	2018321.405	6045500.255											
	TANGENT	ST	1247+05.20	2018321.405	6045500.255		3145.39							S 42°41'54" E		
	TANGENT	TS	1278+50.59	2016009.747	6047633.259											
	CLOTHOID	TS	1278+50.59	2016009.747	6047633.259										S 42°41'54" E	S 43°38'34" E
	CLOTHOID	SPI	1280+17.26	2015887.256	6047746.284		250.00	0°56'40"	125.00	0.34						
	CLOTHOID	SC	1281+00.59	2015826.950	6047803.798											
C213	ARC	SC	1281+00.59	2015826.950	6047803.798											
	ARC	PI	1282+37.63	2015727.783	6047898.375	7583.32	274.04	2°04'14"			110	3.00	3.40	0°45'20"		
	ARC	CC		2021060.645	6053291.528											
	ARC	CS	1283+74.63	2015632.097	6047996.473											
	CLOTHOID	CS	1283+74.63	2015632.097	6047996.473										S 45°42'48" E	S 46°39'28" E
	CLOTHOID	SPI	1284+57.97	2015573.908	6048056.129		250.00	0°56'40"	125.00	0.34						
	CLOTHOID	ST	1286+24.63	2015459.513	6048177.342											
	TANGENT	ST	1286+24.63	2015459.513	6048177.342		248.15							S 46°39'28" E		
	TANGENT	TS	1288+72.78	2015289.194	6048357.813											
	CLOTHOID	TS	1288+72.78	2015289.194	6048357.813										S 46°39'28" E	S 45°56'29" E
	CLOTHOID	SPI	1290+39.45	2015174.800	6048479.025		250.00	0°42'58"	125.00	0.26						
	CLOTHOID	SC	1291+22.78	2015116.850	6048538.912											
C214	ARC	SC	1291+22.78	2015116.850	6048538.912											
	ARC	PI	1294+33.93	2014900.482	6048762.509	10000.00	622.09	3°33'51"			110	2.75	2.10	0°34'23"		
	ARC	CC		2007930.554	6041584.981											
	ARC	CS	1297+44.87	2014670.633	6048972.223											
	CLOTHOID	CS	1297+44.87	2014670.633	6048972.223										S 42°22'38" E	S 41°39'39" E
	CLOTHOID	SPI	1298+28.20	2014609.071	6049028.391		250.00	0°42'58"	125.00	0.26						
	CLOTHOID	ST	1299+94.87	2014484.555	6049139.179											
	TANGENT	ST	1299+94.87	2014484.555	6049139.179		1530.67							S 41°39'39" E		
	TANGENT	TS	1315+25.53	2013341.007	6050156.646											
	CLOTHOID	TS	1315+25.53	2013341.007	6050156.646										S 41°39'39" E	S 41°34'57" E
	CLOTHOID	SPI	1315+92.20	2013291.201	6050200.961		100.00	0°04'43"	50.00	0.01						
	CLOTHOID	SC	1316+25.53	2013266.267	6050223.084											
C215	ARC	SC	1316+25.53	2013266.267	6050223.084											
	ARC	PI	1316+82.10	2013223.954	6050260.628	36500.00	113.14	0°10'39"			110	1.00	0.33	0°09'25"		
	ARC	CC		1989041.314	6022921.039											
	ARC	CS	1317+38.67	2013181.525	6050298.041											
	CLOTHOID	CS	1317+38.67	2013181.525	6050298.041										S 41°24'18" E	S 41°19'35" E
	CLOTHOID	SPI	1317+72.00	2013156.523	6050320.087		100.00	0°04'43"	50.00	0.01						
	CLOTHOID	ST	1318+38.67	2013106.459	6050364.110											
	TANGENT	ST	1318+38.67	2013106.459	6050364.110		1581.24							S 41°19'35" E		

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C212 TO C215

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0054
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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 (EA) (IN)	BEARING (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
	TANGENT	TS	1334+19.91	2011919.014	6051408.275											
	CLOTHOID	TS	1334+19.91	2011919.014	6051408.275										S 41°19'35" E	S 40°45'12" E
	CLOTHOID	SPI	1335+53.24	2011818.886	6051496.322		200.00	0°34'23"	100.00	0.17						
	CLOTHOID	SC	1336+19.91	2011768.384	6051539.843											
C216	ARC	SC	1336+19.91	2011768.384	6051539.843											
	ARC	PI	1336+77.46	2011724.785	6051577.414	10000.00	115.11	0°39'34"			110	2.25	2.60	0°34'23"		
	ARC	CC		2005240.333	6043964.583											
	ARC	CS	1337+35.01	2011680.756	6051614.482											
	CLOTHOID	CS	1337+35.01	2011680.756	6051614.482										S 40°05'38" E	S 39°31'15" E
	CLOTHOID	SPI	1338+01.68	2011629.757	6051657.418		200.00	0°34'23"	100.00	0.17						
	CLOTHOID	ST	1339+35.01	2011526.904	6051742.267											
	TANGENT	ST	1339+35.01	2011526.904	6051742.267									S 39°31'15" E		
	TANGENT	TS	1343+05.17	2011241.363	6051977.824			370.16								
	CLOTHOID	TS	1343+05.17	2011241.363	6051977.824										S 39°31'15" E	S 40°05'38" E
	CLOTHOID	SPI	1344+38.51	2011138.511	6052062.672		200.00	0°34'23"	100.00	0.17						
	CLOTHOID	SC	1345+05.17	2011087.511	6052105.609											
C217	ARC	SC	1345+05.17	2011087.511	6052105.609											
	ARC	PI	1345+62.81	2011043.421	6052142.727	10000.00	115.27	0°39'38"			110	2.25	2.60	0°34'23"		
	ARC	CC		2017527.934	6059755.507											
	ARC	CS	1346+20.44	2010999.763	6052180.352											
	CLOTHOID	CS	1346+20.44	2010999.763	6052180.352										S 40°45'16" E	S 41°19'38" E
	CLOTHOID	SPI	1346+87.11	2010949.261	6052223.873		200.00	0°34'23"	100.00	0.17						
	CLOTHOID	ST	1348+20.44	2010849.134	6052311.922											
	TANGENT	ST	1348+20.44	2010849.134	6052311.922			4175.93						S 41°19'38" E		
	TANGENT	TS	1389+96.38	2007713.218	6055069.540											
	CLOTHOID	TS	1389+96.38	2007713.218	6055069.540										S 41°19'38" E	S 41°48'17" E
	CLOTHOID	SPI	1391+29.71	2007613.091	6055157.588		200.00	0°28'39"	100.00	0.14						
	CLOTHOID	SC	1391+96.38	2007563.396	6055202.028											
C218	ARC	SC	1391+96.38	2007563.396	6055202.028											
	ARC	PI	1400+69.83	2006912.302	6055784.270	12000.00	1743.84	8°19'34"			110	2.25	1.79	0°28'39"		
	ARC	CC		2015562.529	6064147.075											
	ARC	CS	1409+40.21	2006352.385	6056454.660											
	CLOTHOID	CS	1409+40.21	2006352.385	6056454.660										S 50°07'52" E	S 50°36'30" E
	CLOTHOID	SPI	1410+06.88	2006309.649	6056505.828		200.00	0°28'39"	100.00	0.14						
	CLOTHOID	ST	1411+40.21	2006225.033	6056608.872											
	TANGENT	ST	1411+40.21	2006225.033	6056608.872			757.09						S 50°36'30" E		
	Tangent	PI*	1419+32.33	2005722.341	6057221.044											
	Tangent	PI*	1419+32.33	2005722.341	6057221.044			1691.53						S 50°35'11" E		
	TANGENT	POE	1419+97.30	2005681.091	6057271.238											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 72 OF 146**

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REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE	

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


 1111 Broadway  
 9th Floor  
 Oakland, CA 94607


**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE B  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C216 TO C218

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0055
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	1347+47.45	2010921.582	6052278.509		3394.48							S 41°19'38" E		
	TANGENT	PI*	1381+41.92	2008372.502	6054520.083											
	TANGENT	PI*	1381+41.92	2008372.502	6054520.083		1181.71							S 41°18'37" E		
	TANGENT	TS	1393+23.64	2007484.863	6055300.173											
	CLOTHOID	TS	1393+23.64	2007484.863	6055300.173										S 41°18'37" E	S 42°15'37" E
	CLOTHOID	SPI	1395+23.64	2007334.632	6055432.202		300.00	0°57'00"	150.00	0.41						
	CLOTHOID	SC	1396+23.64	2007260.620	6055499.453											
	ARC	SC	1396+23.64	2007260.620	6055499.453											
C154	ARC	PI	1402+08.52	2006827.746	6055892.790	9046.75	1168.14	7°23'54"			110	2.50	2.86	0°38'00"		
	ARC	CC		2013344.549	6062194.937											
	ARC	CS	1407+91.78	2006449.123	6056338.591											
	CLOTHOID	CS	1407+91.78	2006449.123	6056338.591										S 49°39'30" E	S 50°36'30" E
	CLOTHOID	SPI	1408+91.78	2006384.387	6056414.812		300.00	0°57'00"	150.00	0.41						
	CLOTHOID	ST	1410+91.78	2006257.462	6056569.380											
	TANGENT	ST	1410+91.78	2006257.462	6056569.380		843.22							S 50°36'30" E		
	TANGENT	PI*	1419+35.00	2005722.341	6057221.044											
	TANGENT	PI*	1419+35.00	2005722.341	6057221.044		1691.53							S 50°35'11" E		
EON		BK	1419+99.97	2005681.091	6057271.238											
EON		AHD	1425+00.00													
	TANGENT	PI*	1441+26.56	2004648.369	6058527.890											
	TANGENT	PI*	1441+26.56	2004648.369	6058527.890		1204.31							S 50°35'42" E		
	TANGENT	PI*	1453+30.87	2003883.874	6059458.435											
	TANGENT	PI*	1453+30.87	2003883.874	6059458.435		2953.67							S 50°35'14" E		
	TANGENT	PI*	1482+84.54	2002008.584	6061740.417											
	TANGENT	PI*	1482+84.54	2002008.584	6061740.417		4796.03							S 50°34'52" E		
	TANGENT	PI*	1530+80.57	1998963.177	6065445.466											
	TANGENT	PI*	1530+80.57	1998963.177	6065445.466		1052.30							S 50°35'36" E		
	TANGENT	PI*	1541+32.87	1998295.152	6066258.537											
	TANGENT	PI*	1541+32.87	1998295.152	6066258.537		627.19							S 50°31'50" E		
	TANGENT	PI*	1547+60.06	1997896.470	6066742.704											
	TANGENT	PI*	1547+60.06	1997896.470	6066742.704		499.90							S 50°35'56" E		
	TANGENT	TS	1552+59.95	1997579.161	6067128.986											
	CLOTHOID	TS	1552+59.95	1997579.161	6067128.986										S 50°35'56" E	S 50°37'43" E
	CLOTHOID	SPI	1553+13.29	1997545.308	6067170.198		80.00	0°01'47"	40.00	0.00						
	CLOTHOID	SC	1553+39.95	1997528.392	6067190.812											
	ARC	SC	1553+39.95	1997528.392	6067190.812											
C155	ARC	PI	1553+95.14	1997493.384	6067233.475	77000.00	110.38	0°04'56"			110	0.50	0.13	0°04'28"		
	ARC	CC		2057053.274	6116035.346											
	ARC	CS	1554+50.33	1997458.437	6067276.189											
	CLOTHOID	CS	1554+50.33	1997458.437	6067276.189										S 50°42'39" E	S 50°44'26" E
	CLOTHOID	SPI	1554+77.00	1997441.551	6067296.828		80.00	0°01'47"	40.00	0.00						
	CLOTHOID	ST	1555+30.33	1997407.799	6067338.123											
	TANGENT	ST	1555+30.33	1997407.799	6067338.123		873.62							S 50°44'26" E		
	TANGENT	TS	1564+03.95	1996854.946	6068014.554											
	CLOTHOID	TS	1564+03.95	1996854.946	6068014.554										S 50°44'26" E	S 50°42'39" E
	CLOTHOID	SPI	1564+57.28	1996821.194	6068055.849		80.00	0°01'47"	40.00	0.00						
	CLOTHOID	SC	1564+83.95	1996804.308	6068076.488											
	ARC	SC	1564+83.95	1996804.308	6068076.488											
C156	ARC	PI	1565+66.55	1996752.000	6068140.421	77000.00	165.21	0°07'23"			110	0.50	0.13	0°04'28"		
	ARC	CC		1937209.472	6019317.330											
	ARC	CS	1566+49.16	1996699.554	6068204.242											

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 ALTERNATIVE B  
 BOOK B4  
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 SBT PEPD  
 NOVEMBER 30, 2021  
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 Oakland, CA 94607


**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C154 TO C156

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0015
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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
	CLOTHOID	SPI	1566+75.82	1996682.623	6068224.844		80.00	0°01'47"	40.00	0.00						
	CLOTHOID	ST	1567+29.16	1996648.741	6068266.032											
	TANGENT	ST	1567+29.16	1996648.741	6068266.032		2912.35							S 50°33'29" E		
	TANGENT	TS	1596+41.51	1994798.537	6070515.147											
	CLOTHOID	TS	1596+41.51	1994798.537	6070515.147										S 50°33'29" E	S 50°30'44" E
	CLOTHOID	SPI	1596+94.84	1994764.654	6070556.335		80.00	0°02'45"	40.00	0.01						
	CLOTHOID	SC	1597+21.51	1994747.696	6070576.915											
	ARC	SC	1597+21.51	1994747.696	6070576.915											
C157	ARC	PI	1597+83.36	1994708.364	6070624.650	50000.00	123.70	0°08'30"			110	0.75	0.22	0°06'53"		
	ARC	CC		1956159.693	6038781.224											
	ARC	CS	1598+45.21	1994668.914	6070672.287											
	CLOTHOID	CS	1598+45.21	1994668.914	6070672.287										S 50°22'14" E	S 50°19'29" E
	CLOTHOID	SPI	1598+71.88	1994651.906	6070692.825		80.00	0°02'45"	40.00	0.01						
	CLOTHOID	ST	1599+25.21	1994617.856	6070733.874											
	TANGENT	ST	1599+25.21	1994617.856	6070733.874		356.43							S 50°19'29" E		
	TANGENT	TS	1602+81.64	1994390.298	6071008.208											
	CLOTHOID	TS	1602+81.64	1994390.298	6071008.208										S 50°19'29" E	S 50°22'14" E
	CLOTHOID	SPI	1603+34.97	1994356.248	6071049.257		80.00	0°02'45"	40.00	0.01						
	CLOTHOID	SC	1603+61.64	1994339.240	6071069.796											
	ARC	SC	1603+61.64	1994339.240	6071069.796											
C158	ARC	PI	1604+22.56	1994300.381	6071116.719	50000.00	121.85	0°08'23"			110	0.75	0.22	0°06'53"		
	ARC	CC		2032848.461	6102960.858											
	ARC	CS	1604+83.49	1994261.636	6071163.737											
	CLOTHOID	CS	1604+83.49	1994261.636	6071163.737										S 50°30'36" E	S 50°33'21" E
	CLOTHOID	SPI	1605+10.15	1994244.677	6071184.317		80.00	0°02'45"	40.00	0.01						
	CLOTHOID	ST	1605+63.49	1994210.793	6071225.503											
	TANGENT	ST	1605+63.49	1994210.793	6071225.503		2376.62							S 50°33'21" E		
	TANGENT	PI*	1629+40.11	1992700.868	6073060.836											
	TANGENT	PI*	1629+40.11	1992700.868	6073060.836		833.97							S 50°33'57" E		
	TANGENT	PI*	1637+74.08	1992171.139	6073704.957											
	TANGENT	PI*	1637+74.08	1992171.139	6073704.957		2284.85							S 50°32'54" E		
	TANGENT	PI*	1660+58.92	1990719.283	6075469.224											
	TANGENT	PI*	1660+58.92	1990719.283	6075469.224		1706.23							S 50°33'43" E		
	TANGENT	TS	1677+65.16	1989635.407	6076786.965											
	CLOTHOID	TS	1677+65.16	1989635.407	6076786.965										S 50°33'43" E	S 49°32'19" E
	CLOTHOID	SPI	1679+31.83	1989529.531	6076915.686		250.00	1°01'23"	125.00	0.37						
	CLOTHOID	SC	1680+15.16	1989475.452	6076979.092											
	ARC	SC	1680+15.16	1989475.452	6076979.092											
C159	ARC	PI	1681+77.03	1989370.403	6077102.256	7000.00	323.70	2°38'58"			110	3.00	3.94	0°49'07"		
	ARC	CC		1984149.542	6072436.550											
	ARC	CS	1683+38.85	1989259.774	6077220.432											
	CLOTHOID	CS	1683+38.85	1989259.774	6077220.432										S 46°53'21" E	S 45°51'58" E
	CLOTHOID	SPI	1684+22.19	1989202.821	6077281.270		250.00	1°01'23"	125.00	0.37						
	CLOTHOID	ST	1685+88.85	1989086.763	6077400.891											
	TANGENT	ST	1685+88.85	1989086.763	6077400.891		180.56							S 45°51'58" E		
	TANGENT	TS	1687+69.41	1988961.035	6077530.479											
	CLOTHOID	TS	1687+69.41	1988961.035	6077530.479										S 45°51'58" E	S 46°58'40" E
	CLOTHOID	SPI	1689+42.74	1988840.334	6077654.885		260.00	1°06'42"	130.00	0.42						
	CLOTHOID	SC	1690+29.41	1988781.200	6077718.248											
	ARC	SC	1690+29.41	1988781.200	6077718.248											
C160	ARC	PI	1691+80.10	1988678.383	6077828.420	6700.00	301.34	2°34'37"			110	3.00	4.24	0°51'19"		
	ARC	CC		1993679.495	6082289.540											

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C157 TO C160

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0016
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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
	ARC	CS	1693+30.75	1988580.623	6077943.104											
	CLOTHOID	CS	1693+30.75	1988580.623	6077943.104										S 49°33'17" E	S 50°39'59" E
	CLOTHOID	SPI	1694+17.42	1988524.398	6078009.062		260.00	1°06'42"	130.00	0.42						
	CLOTHOID	ST	1695+90.75	1988414.532	6078143.133											
	TANGENT	ST	1695+90.75	1988414.532	6078143.133		836.48							S 50°39'59" E		
	TANGENT	TS	1704+27.23	1987884.341	6078790.125											
	CLOTHOID	TS	1704+27.23	1987884.341	6078790.125										S 50°39'59" E	S 51°46'41" E
	CLOTHOID	SPI	1706+00.57	1987774.474	6078924.196		260.00	1°06'42"	130.00	0.42						
	CLOTHOID	SC	1706+87.23	1987720.851	6078992.285											
	ARC	SC	1706+87.23	1987720.851	6078992.285											
C161	ARC	PI	1708+25.43	1987635.343	6079100.861	6700.00	276.36	2°21'48"			110	3.00	4.24	0°51'19"		
	ARC	CC		1992984.509	6083137.632											
	ARC	CS	1709+63.59	1987554.386	6079212.870											
	CLOTHOID	CS	1709+63.59	1987554.386	6079212.870										S 54°08'29" E	S 55°15'12" E
	CLOTHOID	SPI	1710+50.26	1987503.616	6079283.113		260.00	1°06'42"	130.00	0.42						
	CLOTHOID	ST	1712+23.59	1987404.822	6079425.540											
	TANGENT	ST	1712+23.59	1987404.822	6079425.540		261.87							S 55°15'12" E		
	TANGENT	TS	1714+85.46	1987255.570	6079640.712											
	CLOTHOID	TS	1714+85.46	1987255.570	6079640.712										S 55°15'12" E	S 54°08'29" E
	CLOTHOID	SPI	1716+58.80	1987156.776	6079783.140		260.00	1°06'42"	130.00	0.42						
	CLOTHOID	SC	1717+45.46	1987106.006	6079853.382											
	ARC	SC	1717+45.46	1987106.006	6079853.382											
C162	ARC	PI	1718+83.11	1987025.373	6079964.943	6700.00	275.26	2°21'14"			110	3.00	4.24	0°51'19"		
	ARC	CC		1981675.883	6075928.620											
	ARC	CS	1720+20.72	1986940.227	6080073.097											
	CLOTHOID	CS	1720+20.72	1986940.227	6080073.097										S 51°47'15" E	S 50°40'33" E
	CLOTHOID	SPI	1721+07.39	1986886.614	6080141.195		260.00	1°06'42"	130.00	0.42						
	CLOTHOID	ST	1722+80.72	1986776.770	6080275.284											
	TANGENT	ST	1722+80.72	1986776.770	6080275.284		541.97							S 50°40'33" E		
	TANGENT	PI*	1728+22.69	1986433.321	6080694.537											
	TANGENT	PI*	1728+22.69	1986433.321	6080694.537		2074.35							S 50°39'16" E		
	TANGENT	PI*	1748+97.04	1985118.192	6082298.707											
	TANGENT	PI*	1748+97.04	1985118.192	6082298.707		1678.96							S 50°40'05" E		
	TANGENT	PI*	1765+76.00	1984054.041	6083597.361											
	TANGENT	PI*	1765+76.00	1984054.041	6083597.361		905.87							S 50°39'28" E		
	TANGENT	PI*	1774+81.87	1983479.762	6084297.937											
	TANGENT	PI*	1774+81.87	1983479.762	6084297.937		602.21							S 50°41'41" E		
	TANGENT	PI*	1780+84.08	1983098.292	6084763.917											
	TANGENT	PI*	1780+84.08	1983098.292	6084763.917		1262.63							S 50°40'12" E		
	TANGENT	TS	1793+46.71	1982298.056	6085740.570											
	CLOTHOID	TS	1793+46.71	1982298.056	6085740.570										S 50°40'12" E	S 50°21'47" E
	CLOTHOID	SPI	1794+46.71	1982234.677	6085817.921		150.00	0°18'25"	75.00	0.07						
	CLOTHOID	SC	1794+96.71	1982202.781	6085856.426											
	ARC	SC	1794+96.71	1982202.781	6085856.426											
C163	ARC	PI	1795+84.12	1982147.020	6085923.741	14000.00	174.82	0°42'56"			110	1.75	1.71	0°24'33"		
	ARC	CC		1971421.351	6076925.537											
	ARC	CS	1796+71.53	1982090.423	6085990.354											
	CLOTHOID	CS	1796+71.53	1982090.423	6085990.354										S 49°38'51" E	S 49°20'26" E
	CLOTHOID	SPI	1797+21.53	1982058.049	6086028.458		150.00	0°18'25"	75.00	0.07						
	CLOTHOID	ST	1798+21.53	1981992.893	6086104.318											
	TANGENT	ST	1798+21.53	1981992.893	6086104.318		107.34							S 49°20'26" E		

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 75 OF 146**

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REV	DATE	BY	CHK	APP	DESCRIPTION

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**2021 RECORD**  
**SBT 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 FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C161 TO C163

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0017
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	TS	1799+28.87	1981922.955	6086185.745											
	CLOTHOID	TS	1799+28.87	1981922.955	6086185.745										S 49°20'26" E	S 49°38'51" E
	CLOTHOID	SPI	1800+28.87	1981857.799	6086261.605		150.00	0°18'25"	75.00	0.07						
	CLOTHOID	SC	1800+78.87	1981825.424	6086299.709											
C164	ARC	SC	1800+78.87	1981825.424	6086299.709											
	ARC	PI	1801+64.21	1981770.170	6086364.742	14000.00	170.67	0°41'55"			110	1.75	1.71	0°24'33"		
	ARC	CC		1992494.496	6095364.525											
	ARC	CS	1802+49.54	1981715.712	6086430.444											
	CLOTHOID	CS	1802+49.54	1981715.712	6086430.444										S 50°20'46" E	S 50°39'11" E
	CLOTHOID	SPI	1802+99.54	1981683.804	6086468.940		150.00	0°18'25"	75.00	0.07						
	CLOTHOID	ST	1803+99.54	1981620.403	6086546.272											
	TANGENT	ST	1803+99.54	1981620.403	6086546.272		1390.86							S 50°39'11" E		
	TANGENT	PI*	1817+90.40	1980738.577	6087621.853											
	TANGENT	PI*	1817+90.40	1980738.577	6087621.853		1294.55							S 50°40'11" E		
	TANGENT	TS	1830+84.95	1979918.103	6088623.193											
	CLOTHOID	TS	1830+84.95	1979918.103	6088623.193										S 50°40'11" E	S 50°53'19" E
	CLOTHOID	SPI	1831+71.62	1979863.174	6088690.231		130.00	0°13'09"	65.00	0.04						
	CLOTHOID	SC	1832+14.95	1979835.838	6088723.854											
C165	ARC	SC	1832+14.95	1979835.838	6088723.854											
	ARC	PI	1833+35.08	1979760.060	6088817.062	17000.00	240.25	0°48'35"			110	1.50	1.35	0°20'13"		
	ARC	CC		1993026.516	6099447.940											
	ARC	CS	1834+55.20	1979685.606	6088911.331											
	CLOTHOID	CS	1834+55.20	1979685.606	6088911.331										S 51°41'54" E	S 51°55'03" E
	CLOTHOID	SPI	1834+98.53	1979658.748	6088945.337		130.00	0°13'09"	65.00	0.04						
	CLOTHOID	ST	1835+85.20	1979605.292	6089013.555											
	TANGENT	ST	1835+85.20	1979605.292	6089013.555		120.36							S 51°55'03" E		
	TANGENT	TS	1837+05.56	1979531.054	6089108.294											
	CLOTHOID	TS	1837+05.56	1979531.054	6089108.294										S 51°55'03" E	S 51°36'38" E
	CLOTHOID	SPI	1838+05.56	1979469.374	6089187.007		150.00	0°18'25"	75.00	0.07						
	CLOTHOID	SC	1838+55.56	1979438.324	6089226.197											
C166	ARC	SC	1838+55.56	1979438.324	6089226.197											
	ARC	PI	1839+35.53	1979388.663	6089288.878	14000.00	159.94	0°39'16"			110	1.75	1.71	0°24'33"		
	ARC	CC		1968465.013	6080532.151											
	ARC	CS	1840+15.50	1979338.288	6089350.988											
	CLOTHOID	CS	1840+15.50	1979338.288	6089350.988										S 50°57'22" E	S 50°38'57" E
	CLOTHOID	SPI	1840+65.50	1979306.792	6089389.821		150.00	0°18'25"	75.00	0.07						
	CLOTHOID	ST	1841+65.50	1979243.385	6089467.149											
	TANGENT	ST	1841+65.50	1979243.385	6089467.149		3523.89							S 50°38'57" E		
	TANGENT	TS	1876+89.39	1977008.997	6092192.092											
	CLOTHOID	TS	1876+89.39	1977008.997	6092192.092										S 50°38'57" E	S 50°35'42" E
	CLOTHOID	SPI	1877+46.05	1976973.067	6092235.911		85.00	0°03'15"	42.50	0.01						
	CLOTHOID	SC	1877+74.39	1976955.081	6092257.803											
C167	ARC	SC	1877+74.39	1976955.081	6092257.803											
	ARC	PI	1878+27.47	1976921.383	6092298.820	45000.00	106.17	0°08'07"			110	1.00	0.08	0°07'38"		
	ARC	CC		1942184.587	6063691.866											
	ARC	CS	1878+80.55	1976887.589	6092339.757											
	CLOTHOID	CS	1878+80.55	1976887.589	6092339.757										S 50°27'35" E	S 50°24'20" E
	CLOTHOID	SPI	1879+08.89	1976869.551	6092361.607		85.00	0°03'15"	42.50	0.01						
	CLOTHOID	ST	1879+65.55	1976833.435	6092405.273											

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 76 OF 146

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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C164 TO C167

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0018
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	1879+65.55	1976833.435	6092405.273		224.09							S 50°24'20" E		
	TANGENT	TS	1881+89.64	1976690.614	6092577.949											
	CLOTHOID	TS	1881+89.64	1976690.614	6092577.949										S 50°24'20" E	S 50°27'05" E
	CLOTHOID	SPI	1882+42.97	1976656.622	6092619.046		80.00	0°02'45"	40.00	0.01						
	CLOTHOID	SC	1882+69.64	1976639.643	6092639.608											
C168	ARC	SC	1882+69.64	1976639.643	6092639.608											
	ARC	PI	1883+24.94	1976604.430	6092682.251	50000.00	110.60	0°07'36"			110	0.75	0.22	0°06'53"		
	ARC	CC		2015193.936	6124476.167											
	ARC	CS	1883+80.24	1976569.312	6092724.971											
	CLOTHOID	CS	1883+80.24	1976569.312	6092724.971										S 50°34'42" E	S 50°37'27" E
	CLOTHOID	SPI	1884+06.91	1976552.378	6092745.571		80.00	0°02'45"	40.00	0.01						
	CLOTHOID	ST	1884+60.24	1976518.543	6092786.798											
	TANGENT	ST	1884+60.24	1976518.543	6092786.798		1396.01							S 50°37'27" E		
	TANGENT	TS	1898+56.25	1975632.906	6093865.914											
	CLOTHOID	TS	1898+56.25	1975632.906	6093865.914										S 50°37'27" E	S 50°31'43" E
	CLOTHOID	SPI	1899+22.92	1975590.612	6093917.448		100.00	0°05'44"	50.00	0.01						
	CLOTHOID	SC	1899+56.25	1975569.422	6093943.179											
C169	ARC	SC	1899+56.25	1975569.422	6093943.179											
	ARC	PI	1900+14.94	1975532.116	6093988.482	30000.00	117.37	0°13'27"			110	1.00	0.62	0°11'28"		
	ARC	CC		1952411.168	6074872.384											
	ARC	CS	1900+73.63	1975494.632	6094033.638											
	CLOTHOID	CS	1900+73.63	1975494.632	6094033.638										S 50°18'16" E	S 50°12'32" E
	CLOTHOID	SPI	1901+06.96	1975473.342	6094059.286		100.00	0°05'44"	50.00	0.01						
	CLOTHOID	ST	1901+73.63	1975430.676	6094110.512											
	TANGENT	ST	1901+73.63	1975430.676	6094110.512		102.04							S 50°12'32" E		
	TANGENT	TS	1902+75.66	1975365.374	6094188.915											
	CLOTHOID	TS	1902+75.66	1975365.374	6094188.915										S 50°12'32" E	S 50°18'16" E
	CLOTHOID	SPI	1903+42.33	1975322.708	6094240.141		100.00	0°05'44"	50.00	0.01						
	CLOTHOID	SC	1903+75.66	1975301.417	6094265.789											
C170	ARC	SC	1903+75.66	1975301.417	6094265.789											
	ARC	PI	1904+40.13	1975260.241	6094315.394	30000.00	128.94	0°14'47"			110	1.00	0.62	0°11'28"		
	ARC	CC		1998384.882	6113427.043											
	ARC	CS	1905+04.60	1975219.278	6094365.175											
	CLOTHOID	CS	1905+04.60	1975219.278	6094365.175										S 50°33'02" E	S 50°38'46" E
	CLOTHOID	SPI	1905+37.93	1975198.098	6094390.915		100.00	0°05'44"	50.00	0.01						
	CLOTHOID	ST	1906+04.60	1975155.824	6094442.465											
	TANGENT	ST	1906+04.60	1975155.824	6094442.465		765.94							S 50°38'46" E		
	TANGENT	TS	1913+70.54	1974670.134	6095034.726											
	CLOTHOID	TS	1913+70.54	1974670.134	6095034.726										S 50°38'46" E	S 51°51'22" E
	CLOTHOID	SPI	1915+17.21	1974577.129	6095148.138		220.00	1°12'36"	110.00	0.39						
	CLOTHOID	SC	1915+90.54	1974531.834	6095205.814											
C171	ARC	SC	1915+90.54	1974531.834	6095205.814											
	ARC	PI	1920+24.12	1974264.041	6095546.805	5208.79	865.14	9°31'00"			90	2.25	3.99	1°06'00"		
	ARC	CC		1978628.352	6098422.961											
	ARC	CS	1924+55.69	1974056.311	6095927.378											
	CLOTHOID	CS	1924+55.69	1974056.311	6095927.378										S 61°22'22" E	S 62°34'58" E
	CLOTHOID	SPI	1925+29.02	1974021.175	6095991.750		220.00	1°12'36"	110.00	0.39						
	CLOTHOID	ST	1926+75.69	1973953.638	6096121.945											

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 77 OF 146

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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C168 TO C171

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0019
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	1926+75.69	1973953.638	6096121.945		10583.87							S 62°34'58" E		
	TANGENT	PI*	2032+59.55	1969080.108	6105516.992											
	TANGENT	PI*	2032+59.55	1969080.108	6105516.992		194.92							S 62°36'55" E		
	TANGENT	TS	2034+54.47	1968990.454	6105690.065											
	CLOTHOID	TS	2034+54.47	1968990.454	6105690.065										S 62°36'55" E	S 62°17'11" E
	CLOTHOID	SPI	2035+57.80	1968942.925	6105781.819		155.00	0°19'44"	77.50	0.07						
	CLOTHOID	SC	2036+09.47	1968918.897	6105827.559											
	ARC	SC	2036+09.47	1968918.897	6105827.559											
C172	ARC	PI	2036+93.57	1968879.787	6105902.010	13500.00	168.19	0°42'50"			110	1.75	1.84	0°25'28"		
	ARC	CC		1956967.563	6099549.373											
	ARC	CS	2037+77.66	1968839.753	6105975.968											
	CLOTHOID	CS	2037+77.66	1968839.753	6105975.968										S 61°34'22" E	S 61°14'37" E
	CLOTHOID	SPI	2038+29.33	1968815.157	6106021.404		155.00	0°19'44"	77.50	0.07						
	CLOTHOID	ST	2039+32.66	1968765.445	6106111.994									S 61°14'37" E		
	TANGENT	ST	2039+32.66	1968765.445	6106111.994		104.86									
	TANGENT	TS	2040+37.52	1968714.997	6106203.925											
	CLOTHOID	TS	2040+37.52	1968714.997	6106203.925										S 61°14'37" E	S 61°33'02" E
	CLOTHOID	SPI	2041+37.52	1968666.888	6106291.593		150.00	0°18'25"	75.00	0.07						
	CLOTHOID	SC	2041+87.52	1968643.069	6106335.555											
	ARC	SC	2041+87.52	1968643.069	6106335.555											
C173	ARC	PI	2042+65.87	1968605.746	6106404.442	14000.00	156.69	0°38'29"			110	1.75	1.71	0°24'33"		
	ARC	CC		1980952.412	6113004.894											
	ARC	CS	2043+44.22	1968569.196	6106473.741											
	CLOTHOID	CS	2043+44.22	1968569.196	6106473.741										S 62°11'31" E	S 62°29'56" E
	CLOTHOID	SPI	2043+94.22	1968545.870	6106517.967		150.00	0°18'25"	75.00	0.07						
	CLOTHOID	ST	2044+94.22	1968499.693	6106606.668											
	TANGENT	ST	2044+94.22	1968499.693	6106606.668		721.71							S 62°29'56" E		
	TANGENT	TS	2052+15.93	1968166.432	6107246.826											
	CLOTHOID	TS	2052+15.93	1968166.432	6107246.826										S 62°29'56" E	S 63°53'38" E
	CLOTHOID	SPI	2054+55.94	1968055.605	6107459.713		360.00	1°23'42"	180.00	0.73						
	CLOTHOID	SC	2055+75.93	1968002.798	6107567.477											
	ARC	SC	2055+75.93	1968002.798	6107567.477											
C174	ARC	PI	2056+43.89	1967972.894	6107628.501	7393.06	135.91	1°03'12"			110	2.75	3.81	0°46'30"		
	ARC	CC		1974641.622	6110820.682											
	ARC	CS	2057+11.84	1967944.117	6107690.065											
	CLOTHOID	CS	2057+11.84	1967944.117	6107690.065										S 64°56'50" E	S 66°36'48" E
	CLOTHOID	SPI	2058+55.18	1967883.417	6107819.924		430.00	1°39'58"	214.99	1.04						
	CLOTHOID	ST	2061+41.84	1967769.625	6108083.052									S 66°36'48" E		
	TANGENT	ST	2061+41.84	1967769.625	6108083.052		1164.99									
	TANGENT	TS	2073+06.83	1967307.203	6109152.334											
	CLOTHOID	TS	2073+06.83	1967307.203	6109152.334										S 66°36'48" E	S 66°49'57" E
	CLOTHOID	SPI	2073+93.49	1967272.802	6109231.881		130.00	0°13'09"	65.00	0.04						
	CLOTHOID	SC	2074+36.83	1967255.754	6109271.720											
	ARC	SC	2074+36.83	1967255.754	6109271.720											
C175	ARC	PI	2075+49.49	1967211.430	6109375.297	17000.00	225.32	0°45'34"			110	1.50	1.35	0°20'13"		
	ARC	CC		1982884.850	6115959.869											
	ARC	CS	2076+62.15	1967168.483	6109479.452											
	CLOTHOID	CS	2076+62.15	1967168.483	6109479.452										S 67°35'31" E	S 67°48'40" E
	CLOTHOID	SPI	2077+05.48	1967151.965	6109519.513		130.00	0°13'09"	65.00	0.04						
	CLOTHOID	ST	2077+92.15	1967119.234	6109599.761											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 78 OF 146**

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 1111 Broadway  
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 Oakland, CA 94607


**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C173 TO C175

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0020
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	2077+92.15	1967119.234	6109599.761		107.05							S 67°48'40" E		
	TANGENT	TS	2078+99.20	1967078.805	6109698.884											
	CLOTHOID	TS	2078+99.20	1967078.805	6109698.884										S 67°48'40" E	S 67°35'31" E
	CLOTHOID	SPI	2079+85.86	1967046.074	6109779.133		130.00	0°13'09"	65.00	0.04						
	CLOTHOID	SC	2080+29.20	1967029.555	6109819.194											
C176	ARC	SC	2080+29.20	1967029.555	6109819.194											
	ARC	PI	2081+45.93	1966985.056	6109927.113	17000.00	233.46	0°47'13"			110	1.50	1.35	0°20'13"		
	ARC	CC		1951313.188	6103338.777											
	ARC	CS	2082+62.66	1966939.079	6110034.411											
	CLOTHOID	CS	2082+62.66	1966939.079	6110034.411										S 66°48'18" E	S 66°35'10" E
	CLOTHOID	SPI	2083+05.99	1966922.012	6110074.242		130.00	0°13'09"	65.00	0.04						
	CLOTHOID	ST	2083+92.66	1966887.573	6110153.773											
	TANGENT	ST	2083+92.66	1966887.573	6110153.773		2983.41							S 66°35'10" E		
	TANGENT	TS	2113+76.07	1965702.050	6112891.516											
	CLOTHOID	TS	2113+76.07	1965702.050	6112891.516										S 66°35'10" E	S 66°43'23" E
	CLOTHOID	SPI	2114+49.40	1965672.909	6112958.811		110.00	0°08'13"	55.00	0.02						
	CLOTHOID	SC	2114+86.07	1965658.419	6112992.494											
C177	ARC	SC	2114+86.07	1965658.419	6112992.494											
	ARC	PI	2115+45.92	1965634.766	6113047.476	23000.00	119.71	0°17'54"			110	1.25	0.86	0°14'57"		
	ARC	CC		1986786.335	6122081.563											
	ARC	CS	2116+05.78	1965611.399	6113102.582											
	CLOTHOID	CS	2116+05.78	1965611.399	6113102.582										S 67°01'16" E	S 67°09'30" E
	CLOTHOID	SPI	2116+42.44	1965597.085	6113136.339		110.00	0°08'13"	55.00	0.02						
	CLOTHOID	ST	2117+15.78	1965568.618	6113203.921											
	TANGENT	ST	2117+15.78	1965568.618	6113203.921		118.04							S 67°09'30" E		
	TANGENT	TS	2118+33.82	1965522.795	6113312.707											
	CLOTHOID	TS	2118+33.82	1965522.795	6113312.707										S 67°09'30" E	S 67°01'16" E
	CLOTHOID	SPI	2119+07.15	1965494.328	6113380.290		110.00	0°08'13"	55.00	0.02						
	CLOTHOID	SC	2119+43.82	1965480.014	6113414.047											
C178	ARC	SC	2119+43.82	1965480.014	6113414.047											
	ARC	PI	2119+98.99	1965458.477	6113464.838	23000.00	110.34	0°16'30"			110	1.25	0.86	0°14'57"		
	ARC	CC		1944305.078	6104435.066											
	ARC	CS	2120+54.15	1965436.696	6113515.524											
	CLOTHOID	CS	2120+54.15	1965436.696	6113515.524										S 66°44'47" E	S 66°36'34" E
	CLOTHOID	SPI	2120+90.82	1965422.220	6113549.213		110.00	0°08'13"	55.00	0.02						
	CLOTHOID	ST	2121+64.15	1965393.107	6113616.519											
	TANGENT	ST	2121+64.15	1965393.107	6113616.519		484.83							S 66°36'34" E		
	TANGENT	PI*	2126+48.99	1965200.630	6114061.507											
	TANGENT	PI*	2126+48.99	1965200.630	6114061.507		948.66							S 66°35'08" E		
	TANGENT	TS	2135+97.65	1964823.650	6114932.047											
	CLOTHOID	TS	2135+97.65	1964823.650	6114932.047										S 66°35'08" E	S 66°27'54" E
	CLOTHOID	SPI	2136+67.65	1964795.834	6114996.283		105.00	0°07'13"	52.50	0.02						
	CLOTHOID	SC	2137+02.65	1964781.858	6115028.372											
C179	ARC	SC	2137+02.65	1964781.858	6115028.372											
	ARC	PI	2137+69.30	1964755.242	6115089.483	25000.00	133.31	0°18'20"			110	1.25	0.69	0°13'45"		
	ARC	CC		1941861.428	6105045.691											
	ARC	CS	2138+35.96	1964728.300	6115150.452											
	CLOTHOID	CS	2138+35.96	1964728.300	6115150.452										S 66°09'35" E	S 66°02'21" E

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 79 OF 146

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C176 TO C179

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0021
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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
	CLOTHOID	SPI	2138+70.96	1964714.153	6115182.466		105.00	0°07'13"	52.50	0.02						
	CLOTHOID	ST	2139+40.96	1964685.725	6115246.433											
	TANGENT	ST	2139+40.96	1964685.725	6115246.433		107.45							S 66°02'21" E		
	TANGENT	TS	2140+48.41	1964642.090	6115344.622											
	CLOTHOID	TS	2140+48.41	1964642.090	6115344.622										S 66°02'21" E	S 66°09'35" E
	CLOTHOID	SPI	2141+18.41	1964613.662	6115408.590		105.00	0°07'13"	52.50	0.02						
	CLOTHOID	SC	2141+53.41	1964599.515	6115440.603											
	ARC	SC	2141+53.41	1964599.515	6115440.603											
C180	ARC	PI	2142+22.52	1964571.578	6115503.825	25000.00	138.24	0°19'01"			110	1.25	0.69	0°13'45"		
	ARC	CC		1987466.387	6125545.364											
	ARC	CS	2142+91.64	1964543.991	6115567.200											
	CLOTHOID	CS	2142+91.64	1964543.991	6115567.200										S 66°28'35" E	S 66°35'48" E
	CLOTHOID	SPI	2143+26.64	1964530.021	6115599.291		105.00	0°07'13"	52.50	0.02						
	CLOTHOID	ST	2143+96.64	1964502.217	6115663.532											
	TANGENT	ST	2143+96.64	1964502.217	6115663.532		1950.97							S 66°35'48" E		
	TANGENT	PI*	2163+47.61	1963727.293	6117453.997											
	TANGENT	PI*	2163+47.61	1963727.293	6117453.997		873.90							S 66°33'19" E		
	TANGENT	TS	2172+21.51	1963379.597	6118255.754											
	CLOTHOID	TS	2172+21.51	1963379.597	6118255.754										S 66°33'19" E	S 66°47'09" E
	CLOTHOID	SPI	2173+18.18	1963341.137	6118344.440		145.00	0°13'50"	72.50	0.05						
	CLOTHOID	SC	2173+66.51	1963322.085	6118388.860											
	ARC	SC	2173+66.51	1963322.085	6118388.860											
C181	ARC	PI	2174+57.61	1963286.179	6118472.579	18015.00	182.19	0°34'46"			110	1.50	1.19	0°19'05"		
	ARC	CC		1979878.546	6125489.833											
	ARC	CS	2175+48.70	1963251.121	6118556.656											
	CLOTHOID	CS	2175+48.70	1963251.121	6118556.656										S 67°21'55" E	S 67°35'45" E
	CLOTHOID	SPI	2175+97.03	1963232.519	6118601.267		145.00	0°13'50"	72.50	0.05						
	CLOTHOID	ST	2176+93.70	1963195.676	6118690.637											
	TANGENT	ST	2176+93.70	1963195.676	6118690.637		105.05							S 67°35'45" E		
	TANGENT	TS	2177+98.74	1963155.639	6118787.753											
	CLOTHOID	TS	2177+98.74	1963155.639	6118787.753										S 67°35'45" E	S 67°21'54" E
	CLOTHOID	SPI	2178+95.41	1963118.796	6118877.123		145.00	0°13'51"	72.50	0.05						
	CLOTHOID	SC	2179+43.74	1963100.194	6118921.734											
	ARC	SC	2179+43.74	1963100.194	6118921.734											
C182	ARC	PI	2180+19.80	1963070.922	6118991.934	18000.00	152.12	0°29'03"			110	1.50	1.19	0°19'06"		
	ARC	CC		1946486.637	6111994.274											
	ARC	CS	2180+95.86	1963041.058	6119061.884											
	CLOTHOID	CS	2180+95.86	1963041.058	6119061.884										S 66°52'51" E	S 66°39'00" E
	CLOTHOID	SPI	2181+44.19	1963022.081	6119106.336		145.00	0°13'51"	72.50	0.05						
	CLOTHOID	ST	2182+40.86	1962983.767	6119195.086											
	TANGENT	ST	2182+40.86	1962983.767	6119195.086		1249.37							S 66°39'00" E		
	TANGENT	TS	2194+90.23	1962488.583	6120342.138											
	CLOTHOID	TS	2194+90.23	1962488.583	6120342.138										S 66°39'00" E	S 68°51'22" E
	CLOTHOID	SPI	2197+83.59	1962372.312	6120611.468		440.00	2°12'22"	219.99	1.41						
	CLOTHOID	SC	2199+30.23	1962319.400	6120748.280											
	ARC	SC	2199+30.23	1962319.400	6120748.280											
C183	ARC	PI	2201+15.20	1962252.680	6120920.796	5713.78	369.80	3°42'30"			110	4.00	4.50	1°00'10"		
	ARC	CC		1967648.515	6122809.304											
	ARC	CS	2203+00.04	1962197.258	6121097.265											
	CLOTHOID	CS	2203+00.04	1962197.258	6121097.265										S 72°33'52" E	S 74°46'14" E
	CLOTHOID	SPI	2204+46.72	1962153.305	6121237.213		440.00	2°12'22"	219.99	1.41						
	CLOTHOID	ST	2207+40.04	1962076.245	6121520.267											

**SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III**  
**ALTERNATIVE B**  
**BOOK B4**  
**SHEET 80 OF 146**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C180 TO C183

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0022
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	2207+40.04	1962076.245	6121520.267		3697.18							S 74°46'14" E		
	TANGENT	TS	2244+37.21	1961105.048	6125087.603											
	CLOTHOID	TS	2244+37.21	1961105.048	6125087.603										S 74°46'14" E	S 78°21'13" E
	CLOTHOID	SPI	2247+70.61	1961017.468	6125409.297		500.00	3°35'00"	249.97	2.61						
	CLOTHOID	SC	2249+37.21	1960983.811	6125572.593											
C184	ARC	SC	2249+37.21	1960983.811	6125572.593											
	ARC	PI	2250+80.65	1960954.856	6125713.077	3997.48	286.74	4°06'36"			110	6.00	6.14	1°26'00"		
	ARC	CC		1964898.993	6126379.559											
	ARC	CS	2252+23.95	1960936.043	6125855.274											
	CLOTHOID	CS	2252+23.95	1960936.043	6125855.274										S 82°27'49" E	S 86°02'49" E
	CLOTHOID	SPI	2253+90.68	1960914.176	6126020.563		500.00	3°35'00"	249.97	2.61						
	CLOTHOID	ST	2257+23.95	1960891.192	6126353.171											
	TANGENT	ST	2257+23.95	1960891.192	6126353.171		989.85							S 86°02'49" E		
	TANGENT	TS	2267+13.80	1960822.953	6127340.667											
	CLOTHOID	TS	2267+13.80	1960822.953	6127340.667										S 86°02'49" E	S 86°52'14" E
	CLOTHOID	SPI	2268+67.14	1960812.383	6127493.637		230.00	0°49'25"	115.00	0.28						
	CLOTHOID	SC	2269+43.80	1960808.197	6127570.191											
C185	ARC	SC	2269+43.80	1960808.197	6127570.191											
	ARC	PI	2270+71.54	1960801.224	6127697.732	8000.00	255.44	1°49'46"			110	2.75	3.31	0°42'58"		
	ARC	CC		1968796.268	6128006.920											
	ARC	CS	2271+99.25	1960798.326	6127825.432											
	CLOTHOID	CS	2271+99.25	1960798.326	6127825.432										S 88°42'00" E	S 89°31'25" E
	CLOTHOID	SPI	2272+75.91	1960796.587	6127902.080		230.00	0°49'25"	115.00	0.28						
	CLOTHOID	ST	2274+29.25	1960795.313	6128055.410											
	TANGENT	ST	2274+29.25	1960795.313	6128055.410		172.73							S 89°31'25" E		
	TANGENT	TS	2276+01.98	1960793.877	6128228.138											
	CLOTHOID	TS	2276+01.98	1960793.877	6128228.138										S 89°31'25" E	S 89°42'26" E
	CLOTHOID	SPI	2276+85.31	1960793.184	6128311.469		125.00	0°11'01"	62.50	0.03						
	CLOTHOID	SC	2277+26.98	1960792.971	6128353.135											
C186	ARC	SC	2277+26.98	1960792.971	6128353.135											
	ARC	PI	2278+09.89	1960792.547	6128436.045	19515.00	165.82	0°29'13"			110	1.50	0.99	0°17'37"		
	ARC	CC		1980307.716	6128452.861											
	ARC	CS	2278+92.80	1960792.828	6128518.957											
	CLOTHOID	CS	2278+92.80	1960792.828	6128518.957										N 89°48'21" E	N 89°37'21" E
	CLOTHOID	SPI	2279+34.47	1960792.969	6128560.623		125.00	0°11'01"	62.50	0.03						
	CLOTHOID	ST	2280+17.80	1960793.518	6128643.955											
	TANGENT	ST	2280+17.80	1960793.518	6128643.955		109.45							N 89°37'21" E		
	TANGENT	TS	2281+27.26	1960794.240	6128753.405											
	CLOTHOID	TS	2281+27.26	1960794.240	6128753.405										N 89°37'21" E	N 89°48'22" E
	CLOTHOID	SPI	2282+10.59	1960794.789	6128836.736		125.00	0°11'01"	62.50	0.03						
	CLOTHOID	SC	2282+52.26	1960794.930	6128878.403											
C187	ARC	SC	2282+52.26	1960794.930	6128878.403											
	ARC	PI	2283+32.64	1960795.202	6128958.791	19500.00	160.78	0°28'21"			110	1.50	0.99	0°17'38"		
	ARC	CC		1941295.041	6128944.400											
	ARC	CS	2284+13.03	1960794.811	6129039.179											
	CLOTHOID	CS	2284+13.03	1960794.811	6129039.179										S 89°43'17" E	S 89°32'16" E
	CLOTHOID	SPI	2284+54.70	1960794.609	6129080.846		125.00	0°11'01"	62.50	0.03						
	CLOTHOID	ST	2285+38.03	1960793.936	6129164.176											

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 81 OF 146

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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C184 TO C187

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0023
SCALE	NONE
SHEET NO.	

TRACK ALIGNMENT DATA SUMMARY TABLE - FJ SB TRACK

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	2285+38.03	1960793.936	6129164.176		2220.94							S 89°32'16" E		
	TANGENT	TS	2307+58.97	1960776.023	6131385.046											
	CLOTHOID	TS	2307+58.97	1960776.023	6131385.046										S 89°32'16" E	S 86°40'23" E
	CLOTHOID	SPI	2310+79.02	1960773.442	6131705.078		480.00	2°51'53"	239.98	2.00						
	CLOTHOID	SC	2312+38.97	1960764.154	6131864.846											
C188	ARC	SC	2312+38.97	1960764.154	6131864.846											
	ARC	PI	2322+29.73	1960706.658	6132853.936	4800.00	1954.04	23°19'30"			110	5.75	4.36	1°11'37"		
	ARC	CC		1955972.244	6131586.288											
	ARC	CS	2331+93.02	1960262.233	6133739.425											
	CLOTHOID	CS	2331+93.02	1960262.233	6133739.425										S 63°20'53" E	S 60°29'00" E
	CLOTHOID	SPI	2333+53.05	1960190.444	6133882.458		480.00	2°51'53"	239.98	2.00						
	CLOTHOID	ST	2336+73.02	1960032.766	6134160.963											
	TANGENT	ST	2336+73.02	1960032.766	6134160.963		829.10							S 60°29'00" E		
	TANGENT	PI*	2345+02.12	1959624.287	6134882.455											
	TANGENT	PI*	2345+02.12	1959624.287	6134882.455		1797.36							S 60°28'00" E		
	TANGENT	PI*	2362+99.48	1958738.313	6136446.282											
	TANGENT	PI*	2362+99.48	1958738.313	6136446.282		1149.26							S 60°30'05" E		
	TANGENT	PI*	2374+48.74	1958172.412	6137446.562											
	TANGENT	PI*	2374+48.74	1958172.412	6137446.562		70.36							S 60°29'13" E		
	TANGENT	POE	2375+19.10	1958137.752	6137507.790											

\* NOTE: ANGLE POINTS ARE NOT INTENDED FOR CONSTRUCTION, THEY ARE A "BEST FIT" REPRESENTATION OF THE EXISTING ALIGNMENT OVER LONG TANGENTS.

SAN FRANCISCO TO SAN JOSE EIR/S: VOLUME III  
 ALTERNATIVE B  
 BOOK B4  
 SHEET 82 OF 146

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**CALIFORNIA**  
 High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**SAN FRANCISCO TO SAN JOSE**  
 ALTERNATIVE A  
 B2 TRACK ALIGNMENT DATA TABLE  
 CURVE NO. C188

CONTRACT NO.	HSR15-34
DRAWING NO.	TT-B0024
SCALE	NONE
SHEET NO.	