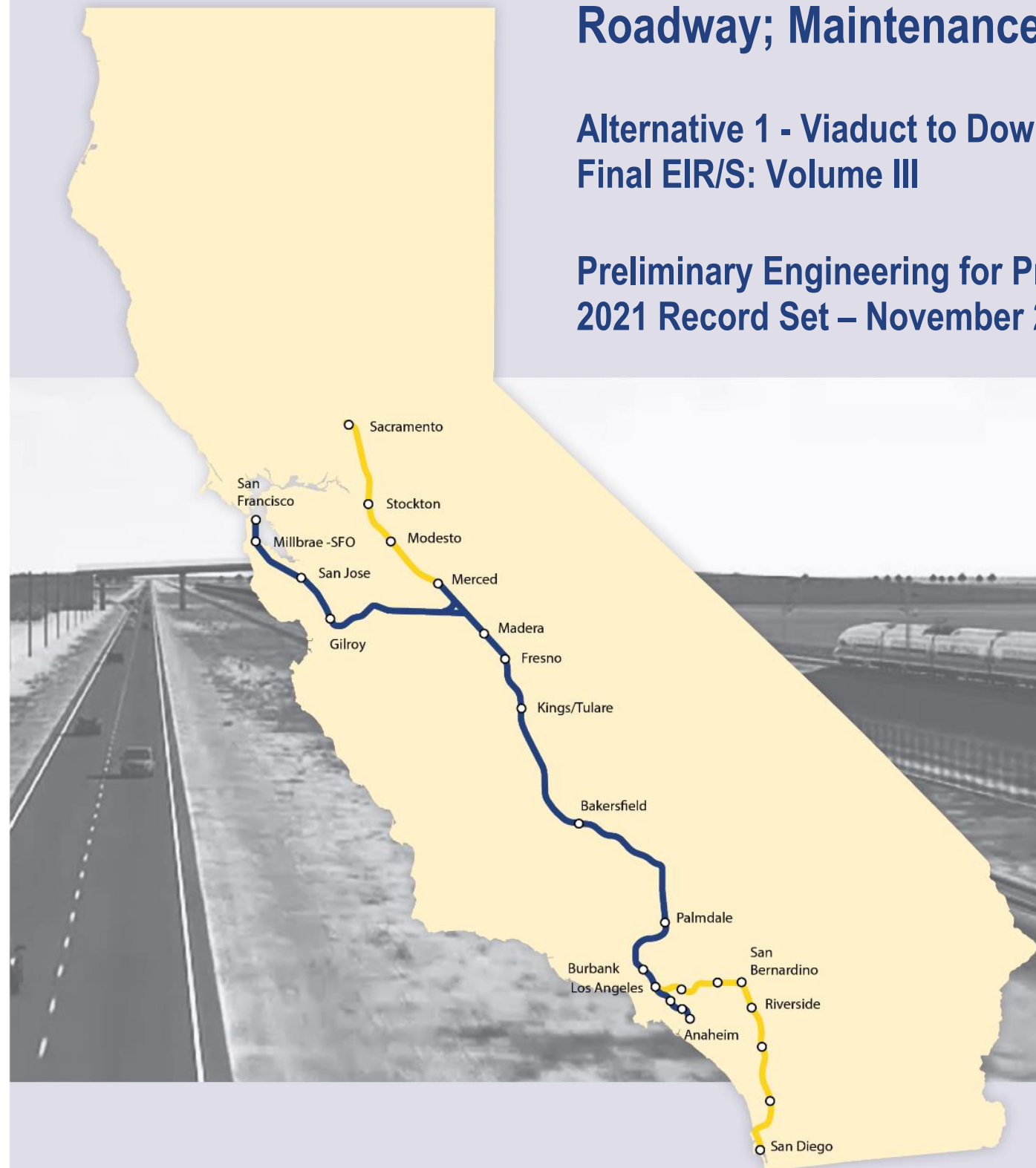


San Jose to Merced Project Section: San Jose to Central Valley Wye

Roadway; Maintenance of Way; Tunnels

Alternative 1 - Viaduct to Downtown Gilroy
Final EIR/S: Volume III

Preliminary Engineering for Project Definition
2021 Record Set – November 2021



**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 108 TO 144 OF 218**

ALTERNATIVE 1 - VIADUCT TO DOWNTOWN GILROY

BOOK	SHEET NO	DRAWING NO	SUBSECTION	GEOGRAPHIC LOCATION OR FEATURE	ALIGNMENT OR FEATURE	SHEET DESCRIPTION	ADDITIONAL DESCRIPTION
------	----------	------------	------------	--------------------------------	----------------------	-------------------	------------------------

COVER, INDEX OF DRAWING AND KEY MAPS

BOOK 1C	A	COVER	SAN JOSE TO MERCED SECTION	N/A	SAN JOSE TO CENTRAL VALLEY WYE	ALTERNATIVE 1	
BOOK 1C	B	GE-A0104	ENTIRE ALTERNATIVE	GRADE SEPARATIONS	INDEX OF DRAWING	SHEET 4 OF 7	
BOOK 1C	C	GE-A0105	ENTIRE ALTERNATIVE	MAINTENANCE OF WAY, TUNNELS	INDEX OF DRAWING	SHEET 5 OF 7	
BOOK 1C	D	GE-D0101	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	COMPOSITE PLAN	
BOOK 1C	E	GE-D0102	GENERAL	ENTIRE ALTERNATIVE	KEY MAP	SYSTEMS SITES	

ROADWAY

SAN JOSE DIRIDON STATION APPROACH

BOOK 1C	108	CV-T0151	SAN JOSE DIRIDON STATION APPROACH	CHESTNUT AVE, ELM ST	VIADUCT TO I-880	PLAN, PROFILE AND TYPICAL SECTIONS	WEST HEDDING STREET
BOOK 1C	109	CV-T0152	SAN JOSE DIRIDON STATION APPROACH	W TAYLOR ST, COLEMAN AVE	VIADUCT TO I-880	PLAN, PROFILE AND TYPICAL SECTIONS	WEST TAYLOR STREET

MONTEREY CORRIDOR

BOOK 1C	110	CV-S0601	MONTEREY CORRIDOR	CAPITOL EXPY, BLOSSOM HILL RD	VIADUCT	CIVIL DETAILS	
BOOK 1C	111	CV-T0401	MONTEREY CORRIDOR	WILLOW ST, W ALMA AVE	VIADUCT/AT-GRADE	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	SR87 ON-RAMP
BOOK 1C	112	CV-T0402	MONTEREY CORRIDOR	CURTNER AVE	VIADUCT/AT-GRADE	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	ALMADEN ROAD AND CURTNER AVENUE

MORGAN HILL AND GILROY

BOOK 1C	113	CV-S0701	MORGAN HILL AND GILROY	ACCESS RD TO MONTEREY RD	VIADUCT TO DOWNTOWN GILROY	CIVIL DETAILS	
BOOK 1C	114	CV-S0901	MORGAN HILL AND GILROY	COHANSEY AVE, E LUCHESSA AVE	VIADUCT TO DOWNTOWN GILROY	CIVIL DETAILS	
BOOK 1C	115	CV-S1201	MORGAN HILL AND GILROY	LAKE RD, SR 152	VIADUCT TO DOWNTOWN GILROY	CIVIL DETAILS	
BOOK 1C	116	CV-T0704	MORGAN HILL AND GILROY	N/A	VIADUCT TO DOWNTOWN GILROY	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	MONTEREY ROAD
BOOK 1C	117	CV-T0907	MORGAN HILL AND GILROY	BLOOMFIELD AVE, BLOSA AVE	VIADUCT TO DOWNTOWN GILROY	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	BOLSA ROAD AND BLOOMFIELD AVENUE
BOOK 1C	118	CV-T0909	MORGAN HILL AND GILROY	BLOOMFIELD ACCESS RD	VIADUCT TO DOWNTOWN GILROY	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	BLOOMFIELD ACCESS ROAD
BOOK 1C	119	CV-G0901	MORGAN HILL AND GILROY	CARNADERO AVE, SHELDON AVE	VIADUCT/AT-GRADE TO DOWNTOWN GILROY	SOAP LAKE FLOOD PLAIN	DETAIL

PACHECO PASS

BOOK 1C	120	CV-S1401	PACHECO PASS	ROMERO RD, CA-152	TUNNEL	CIVIL DETAILS	
---------	-----	----------	--------------	-------------------	--------	---------------	--

SAN JOAQUIN VALLEY

BOOK 1C	121	CV-S1601	SAN JOAQUIN VALLEY	MONTEREY RD, INGOMAR GRADE	HENRY MILLER ROAD	CIVIL DETAILS	
BOOK 1C	122	CV-T1603	SAN JOAQUIN VALLEY	VOLTA RD, HENRY MILLER RD	HENRY MILLER ROAD	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	HENRY MILLER ROAD
BOOK 1C	123	CV-T1604	SAN JOAQUIN VALLEY	HENRY MILLER ACCESS	HENRY MILLER ROAD	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	HENRY MILLER ACCESS
BOOK 1C	124	CV-T1606	SAN JOAQUIN VALLEY	HENRY MILLER RD, MERCY SPRINGS RD	HENRY MILLER ROAD	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	MERCY SPRINGS ROAD
BOOK 1C	125	CV-T1609	SAN JOAQUIN VALLEY	DELTA RD	HENRY MILLER ROAD	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	DELTA ROAD
BOOK 1C	126	CV-T1610	SAN JOAQUIN VALLEY	TURNER ISLAND RD, HENRY MILLER RD	HENRY MILLER ROAD	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	TURNER ROAD
BOOK 1C	127	CV-T1611	SAN JOAQUIN VALLEY	CARLUCCI RD	HENRY MILLER ROAD	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	CARLUCCI ROAD
BOOK 1C	128	CV-T1612	SAN JOAQUIN VALLEY	HUTCHINS RD	HENRY MILLER ROAD	GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS	HUTCHINS ROAD

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET B**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

2021 RECORD SET PEPP
NOVEMBER 30, 2021
NOT FOR CONSTRUCTION

HNTB 1111 Broadway
9th Floor
Oakland, CA 94607



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
ALTERNATIVE 1
INDEX OF DRAWING
SHEET 4 OF 7**

CONTRACT NO.	HSR15-34
DRAWING NO.	GE-A0104
SCALE	NONE
SHEET NO.	

11/29/2021 4:27:32 PM CAHSRP.tbl printer.plt c:\voad\lib\pwh\hntb_josyang_46037_cahsr\dms22197\JM-GE-A0104.dgn

ALTERNATIVE 1 - VIADUCT TO DOWNTOWN GILROY

BOOK	SHEET NO	DRAWING NO	SUBSECTION	GEOGRAPHIC LOCATION OR FEATURE	ALIGNMENT OR FEATURE	SHEET DESCRIPTION	ADDITIONAL DESCRIPTION
MAINTENANCE OF WAY							
BOOK 1C	129	MY-B0906	MORGAN HILL AND GILROY	CARNADERO AVE, SHELDON AVE	VIADUCT TO DOWNTOWN GILROY	MAINTENANCE OF WAY FACILITY	DETAIL PLAN
BOOK 1C	130	MY-B0907	MORGAN HILL AND GILROY	N/A	VIADUCT TO DOWNTOWN GILROY	MAINTENANCE OF WAY FACILITY	TYPICAL SECTIONS
BOOK 1C	131	MY-B0908	MORGAN HILL AND GILROY	N/A	VIADUCT TO DOWNTOWN GILROY	MAINTENANCE OF WAY FACILITY	UPRR PROFILE AND GEOMETRY FOR MOWF

TUNNELS - PACHECO PASS							
BOOK 1C	132	TN-D1404	PACHECO PASS	N/A	TUNNEL	TUNNEL 2 - PORTAL 1	
BOOK 1C	133	TN-D1405	PACHECO PASS	ACCESS RD 1	TUNNEL	TUNNEL PORTAL 2 ACCESS ROAD	
BOOK 1C	134	TN-D1406	PACHECO PASS	CALIFORNIA AQUEDUCT	TUNNEL	TUNNEL PORTAL 2 ACCESS ROAD	
BOOK 1C	135	TN-D1407	PACHECO PASS	ACCESS RD 2	TUNNEL	TUNNEL PORTAL 2 ACCESS ROAD	
BOOK 1C	136	TN-D1408	PACHECO PASS	N/A	TUNNEL	LONGITUDINAL PROFILE	
BOOK 1C	137	TN-D1409	PACHECO PASS	N/A	TUNNEL	GRADING DETAIL	
BOOK 1C	138	TN-D1410	PACHECO PASS	N/A	TUNNEL	GRADING DETAIL	
BOOK 1C	139	TN-D1411	PACHECO PASS	N/A	TUNNEL	GRADING DETAIL	
BOOK 1C	140	TN-D1412	PACHECO PASS	N/A	TUNNEL	GRADING DETAIL	
BOOK 1C	141	TN-D1413	PACHECO PASS	I-5, FAHEY RD	TUNNEL	GRADING DETAIL	
BOOK 1C	142	TN-D1414	PACHECO PASS	N/A	TUNNEL	TUNNEL 2 - PORTAL 1	SECTIONS
BOOK 1C	143	TN-D1415	PACHECO PASS	N/A	TUNNEL	TUNNEL 2 - PORTAL 2	APPROACH 1
BOOK 1C	144	TN-D1416	PACHECO PASS	N/A	TUNNEL	TUNNEL 2 - PORTAL 2	APPROACH 2

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET C**

11/29/2021 4:27:35 PM CAHSRP.tbl printer.plt c:\cadd\lib\pw\hntb_josyang_46037_cahsr\dms22197\JM-GE-A0105.dgn josyang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

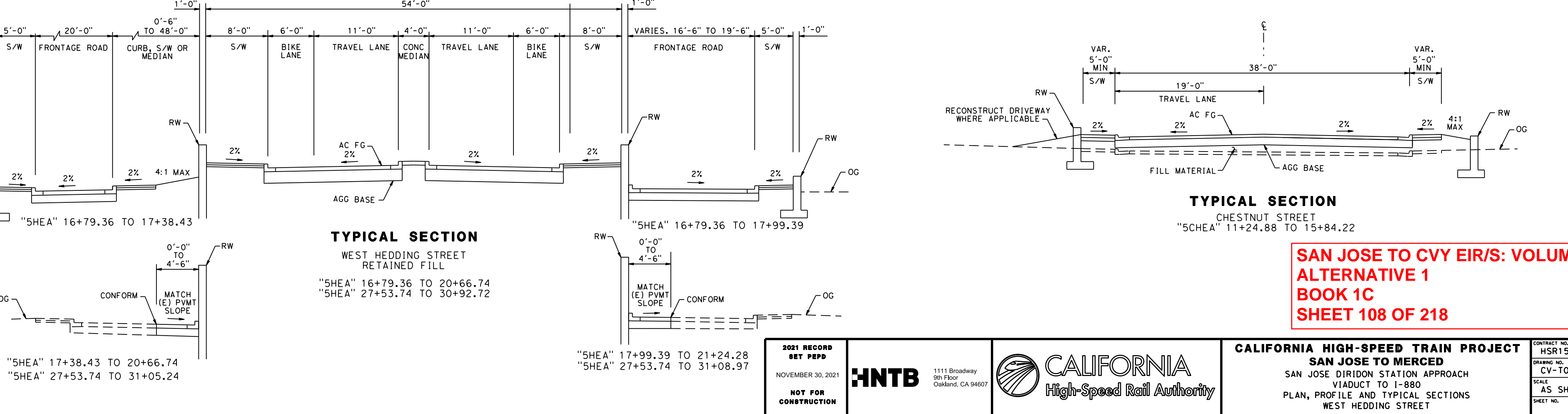
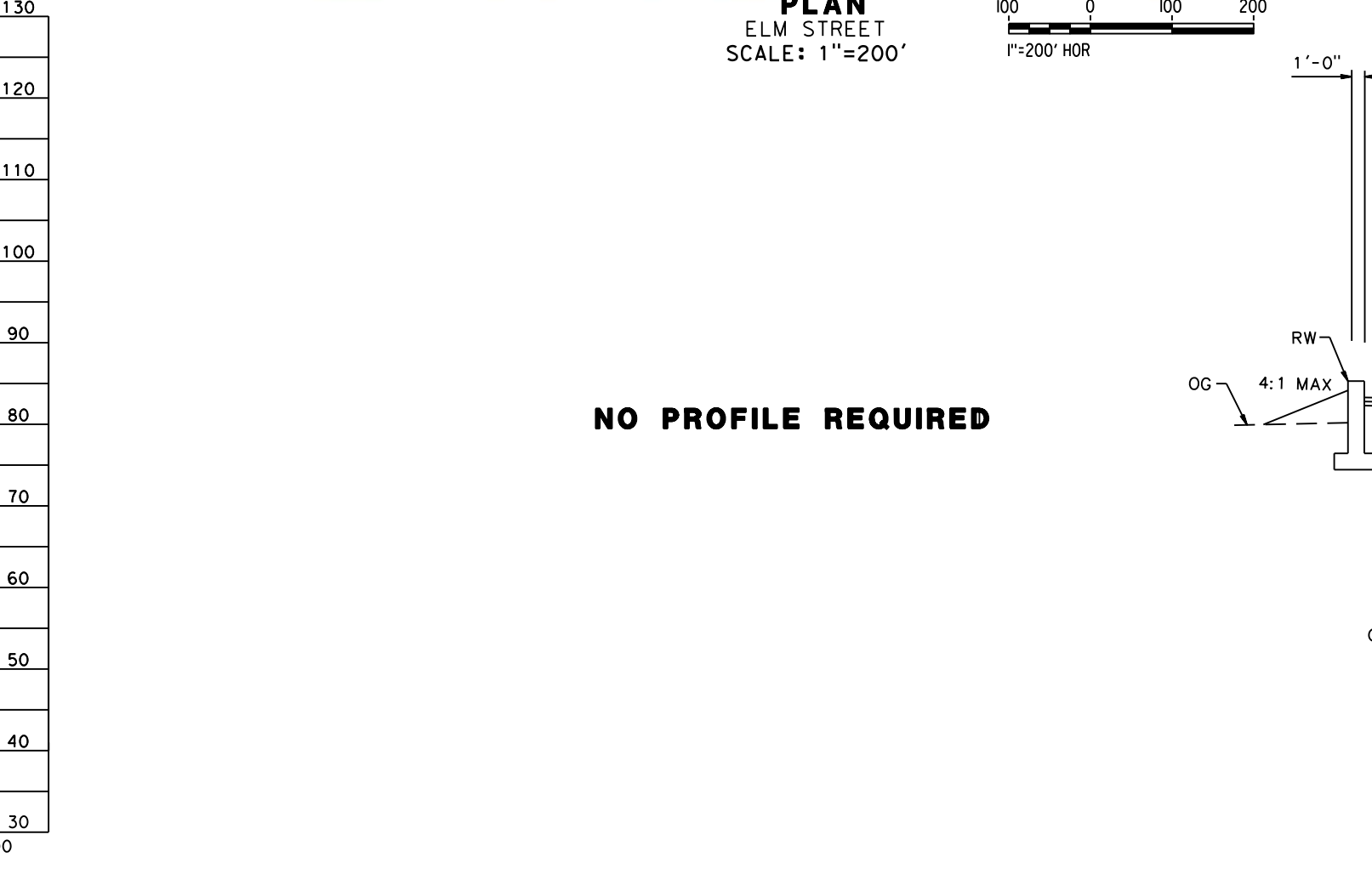
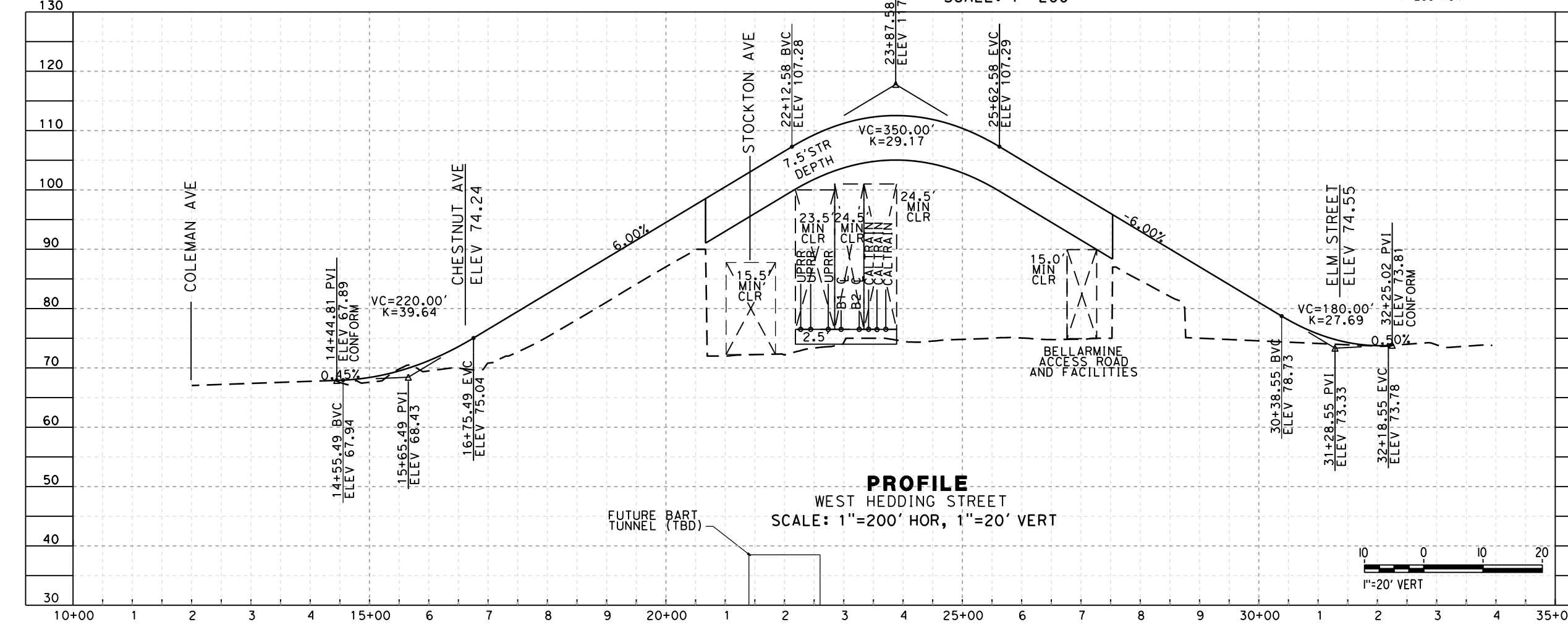
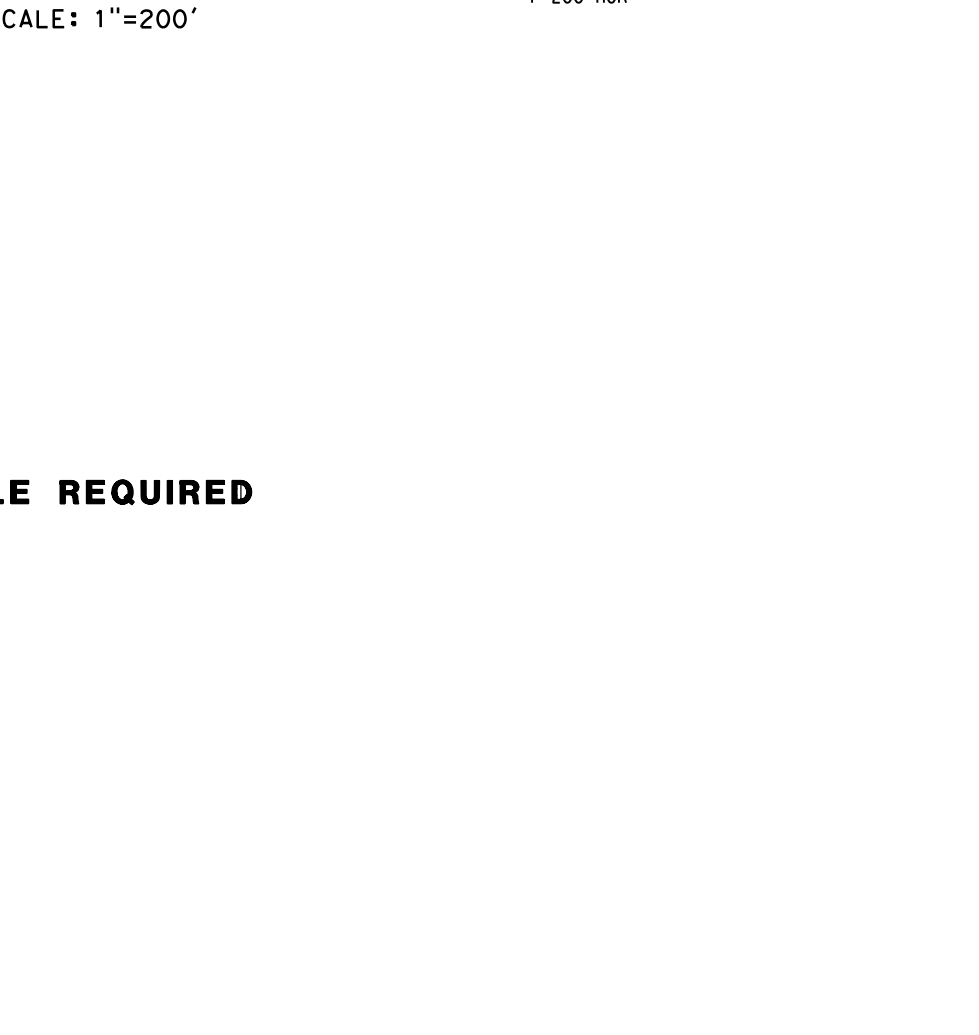
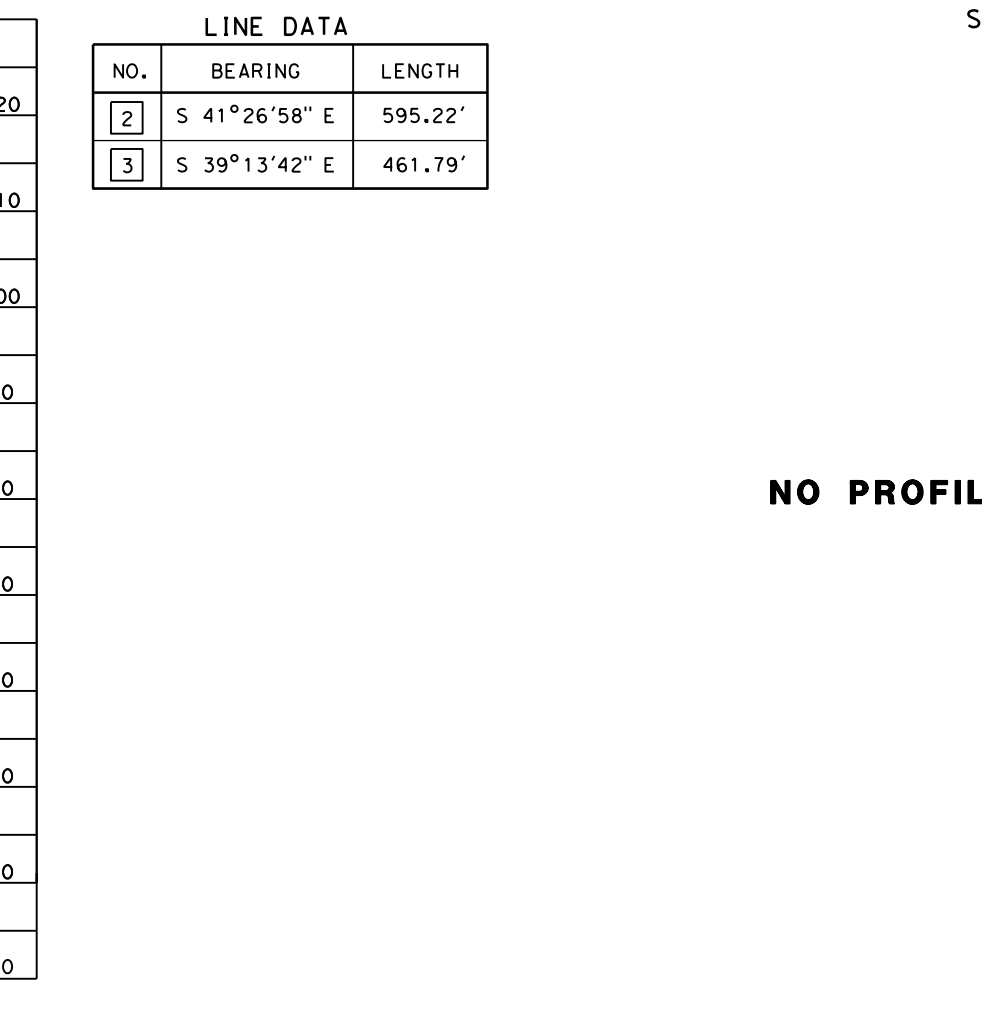
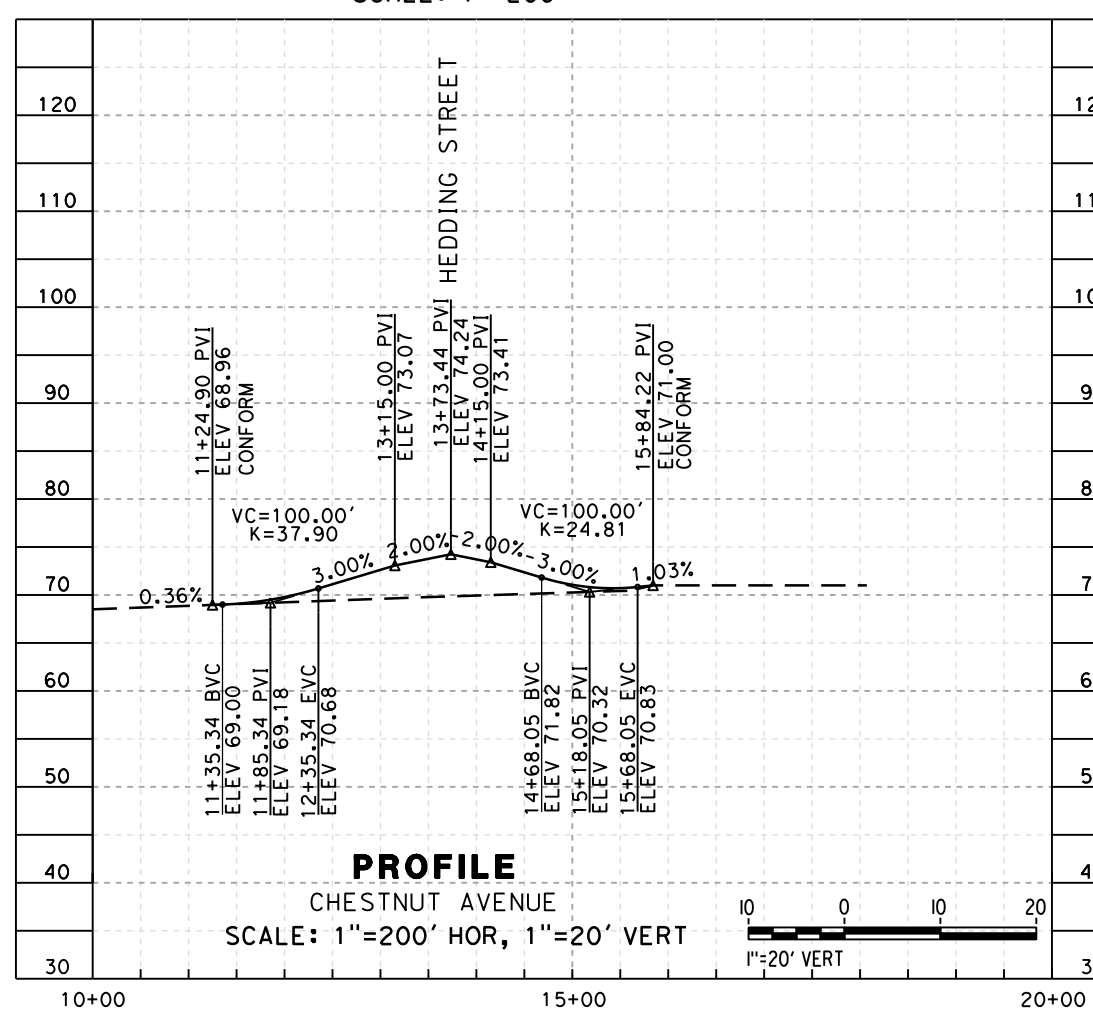
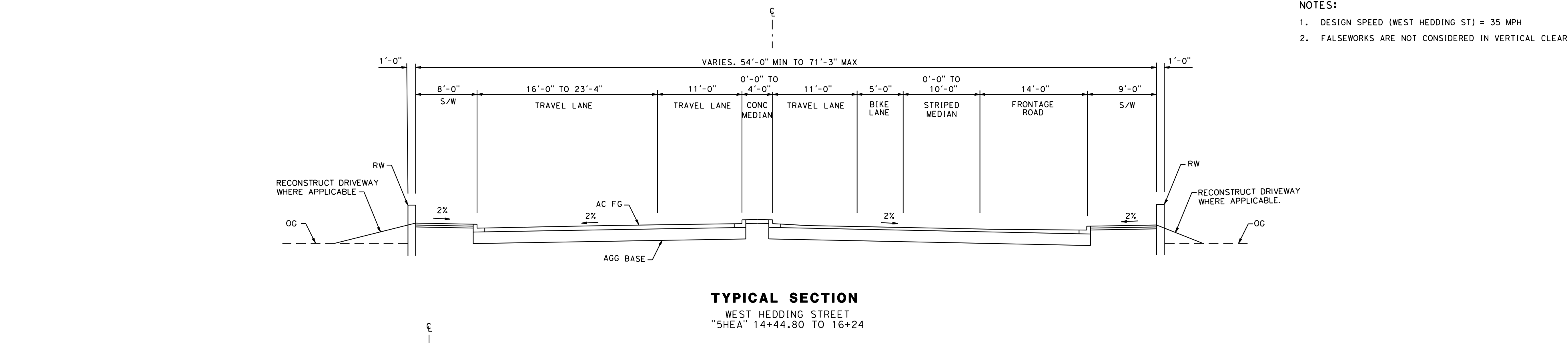
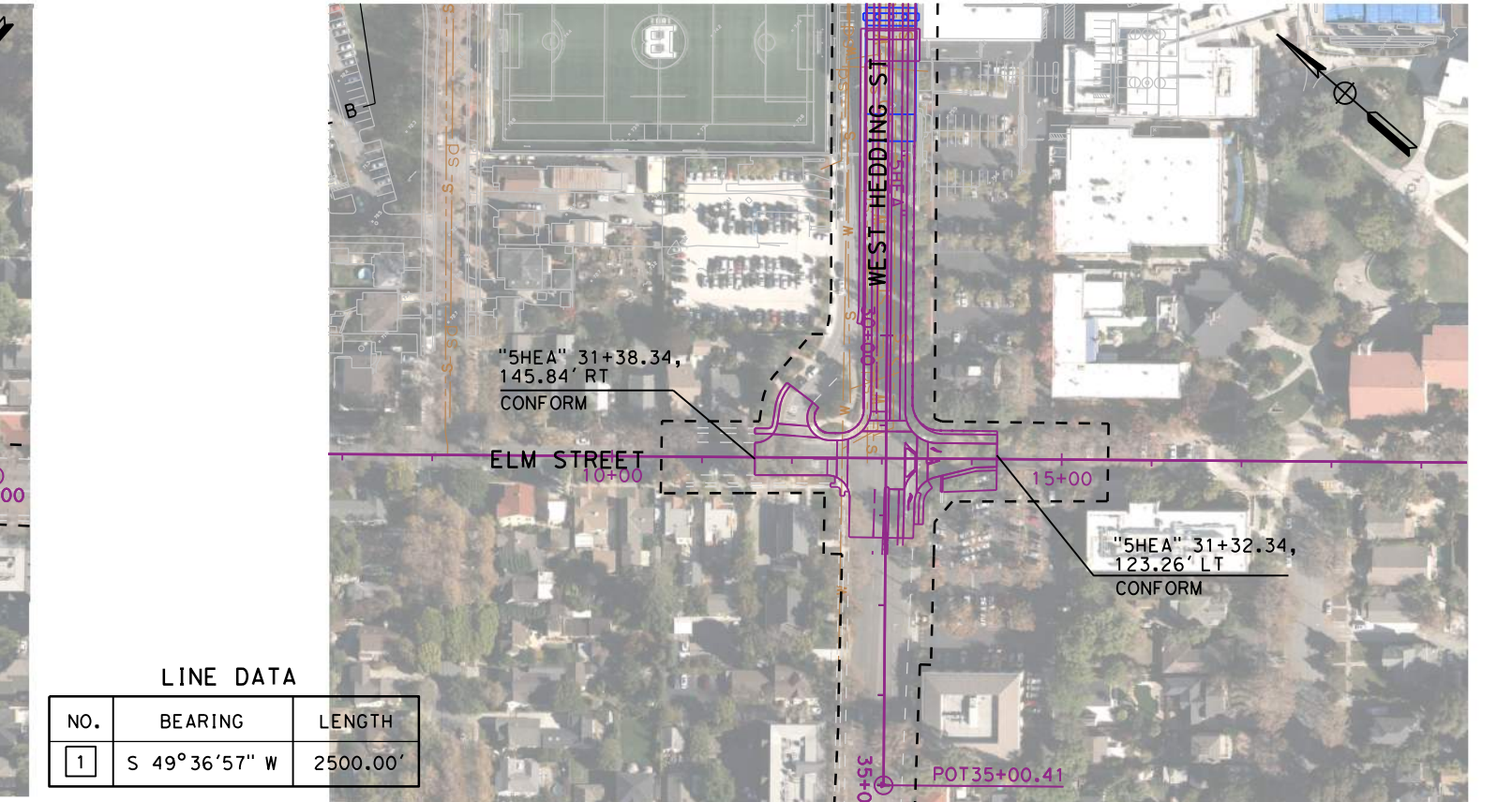
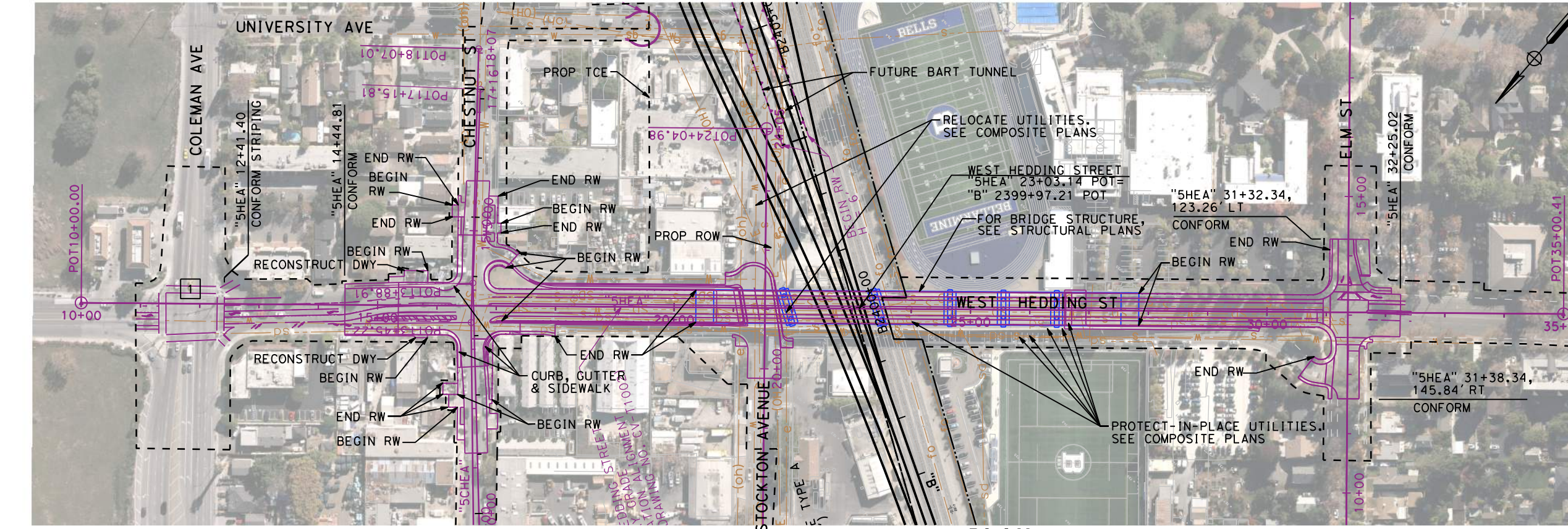
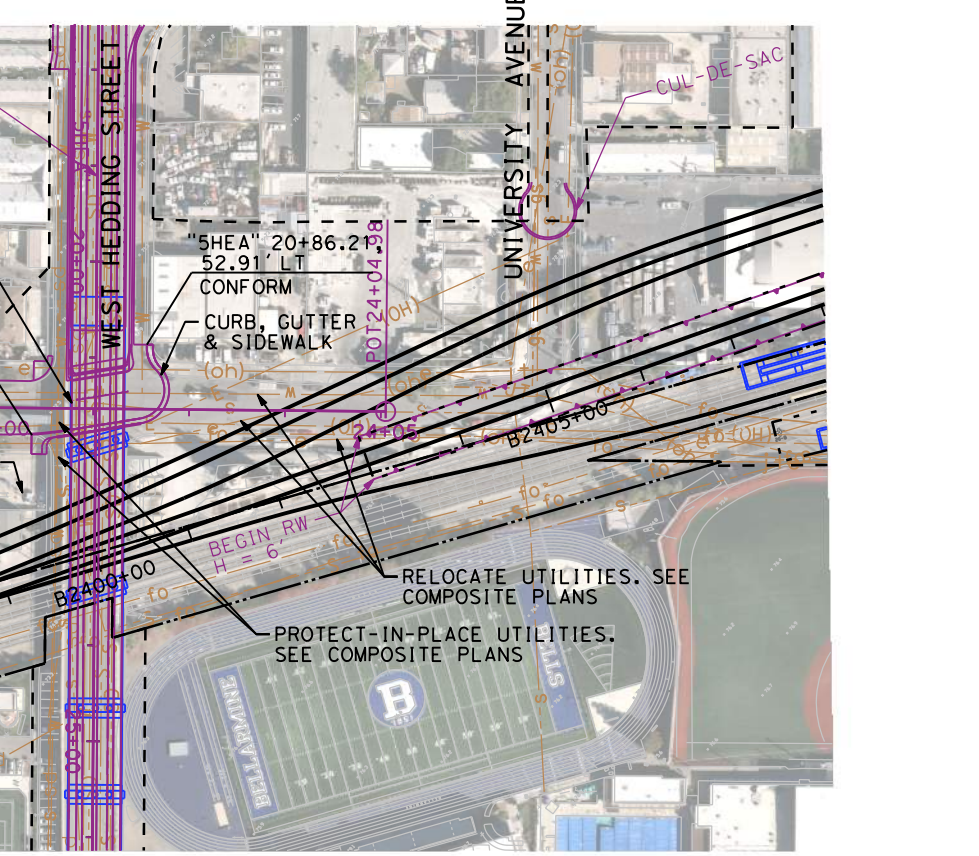
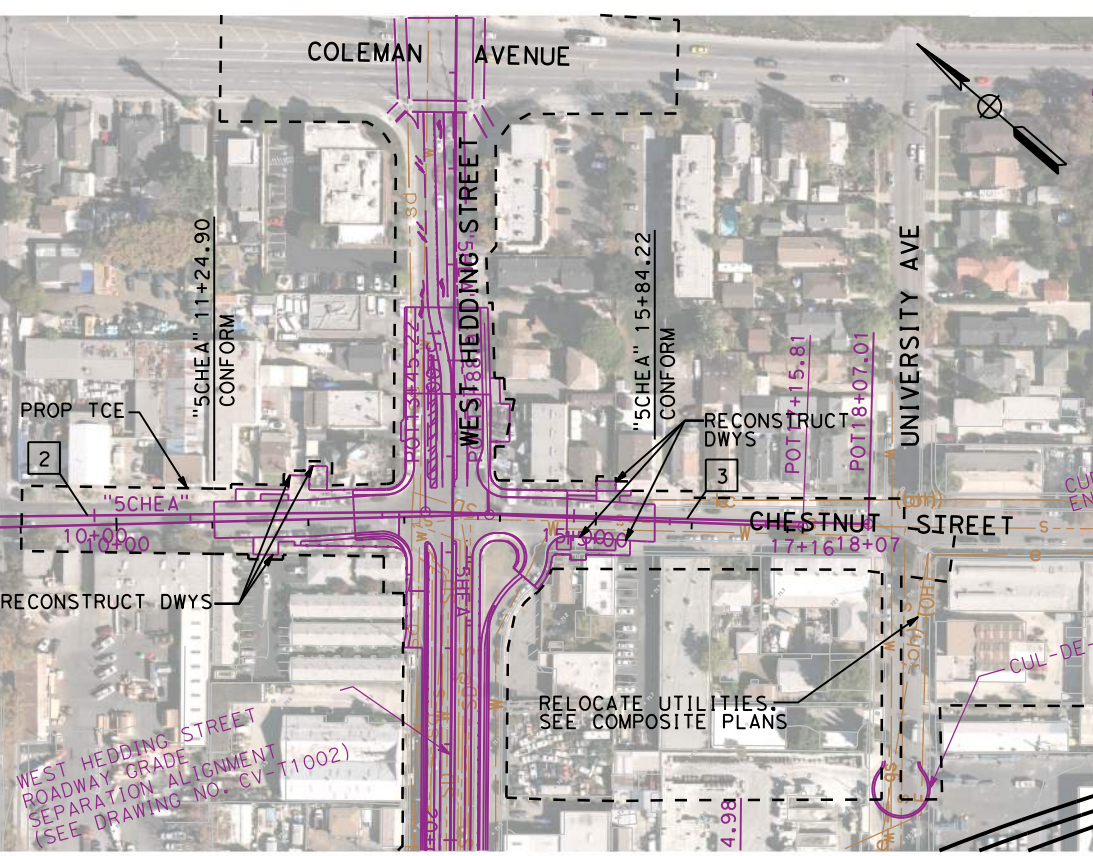
2021 RECORD SET
NOVEMBER 30, 2021
NOT FOR CONSTRUCTION

HNTB 1111 Broadway
9th Floor
Oakland, CA 94607



CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
ALTERNATIVE 1
INDEX OF DRAWING
SHEET 5 OF 7

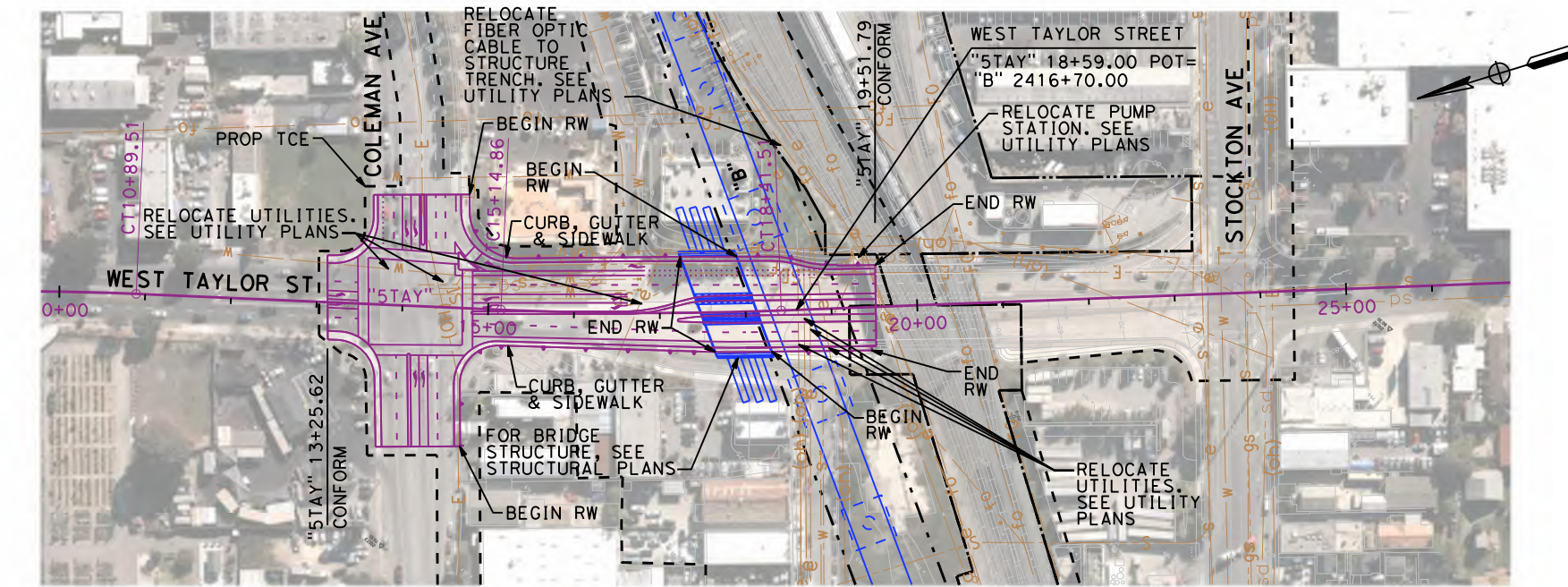
CONTRACT NO. HSR15-34
DRAWING NO. GE - A0105
SCALE NONE
SHEET NO.



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

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 108 OF 218**

2021 RECORD SET PERM NOVEMBER 30, 2021 NOT FOR CONSTRUCTION		1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 PLAN, PROFILE AND TYPICAL SECTIONS WEST HEDDING STREET	CONTRACT NO. HSR15-34 DRAWING NO. CV-T0151 SCALE AS SHOWN SHEET NO.
---	--	---	--	---	---

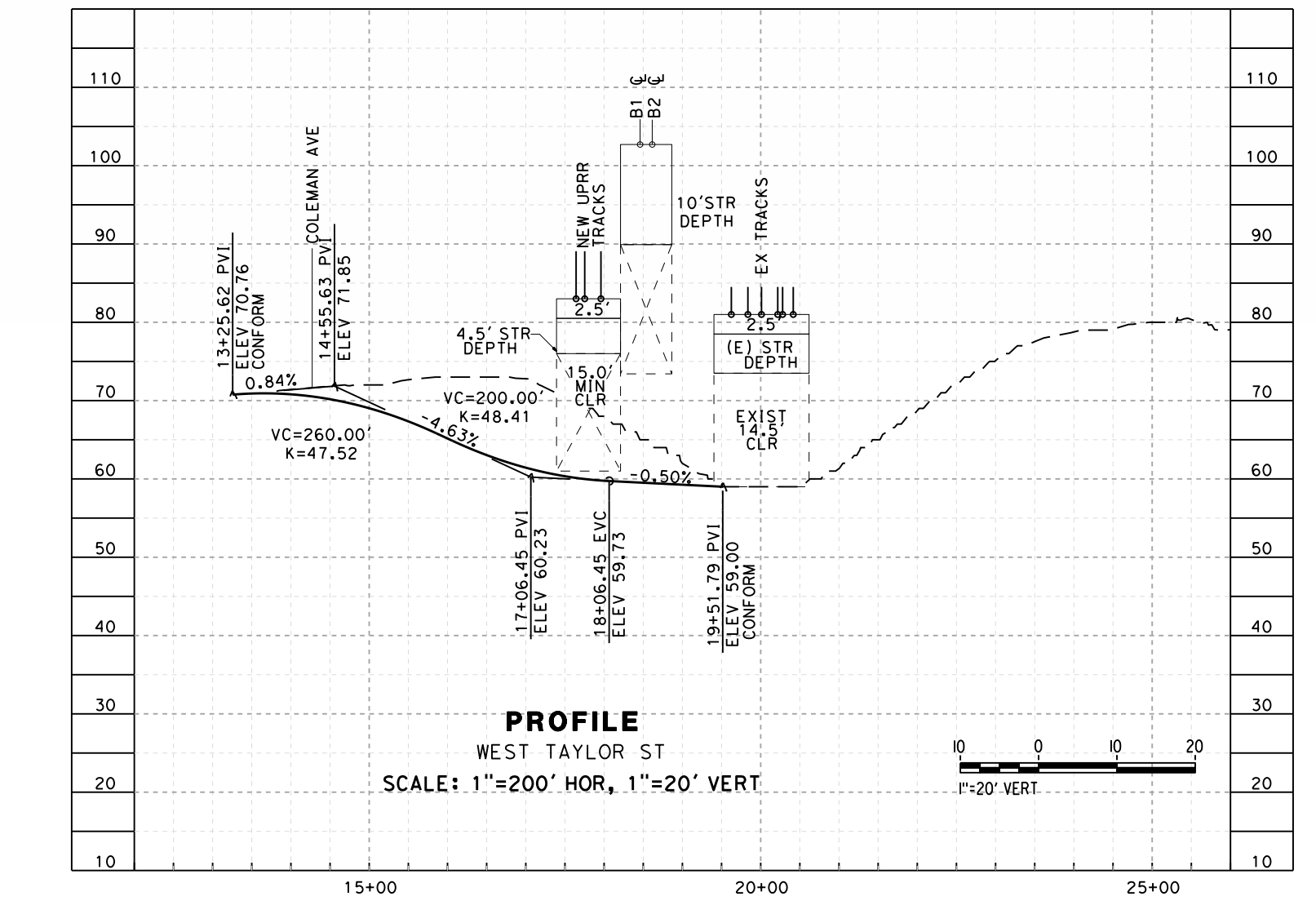
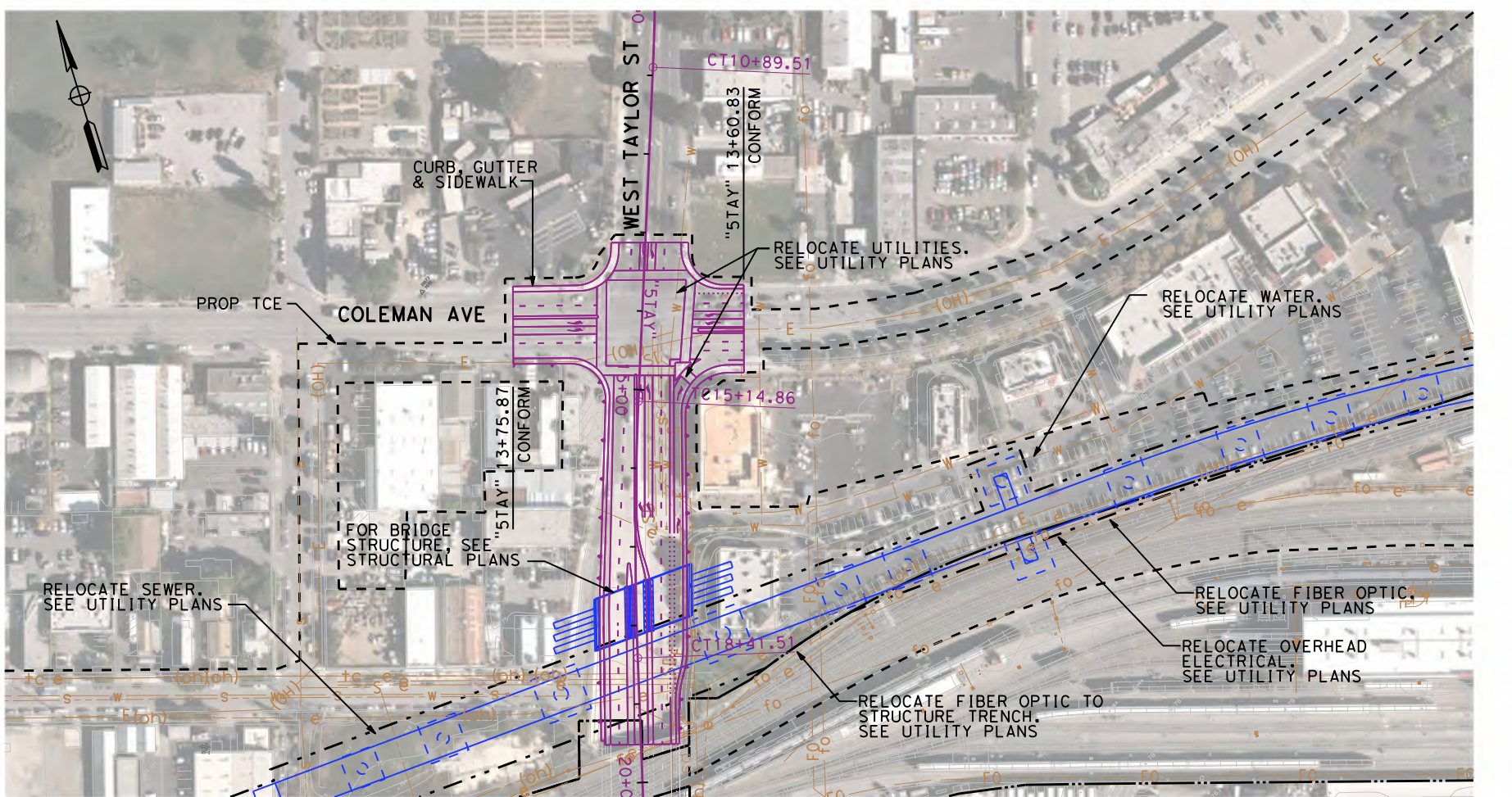


CURVE DATA

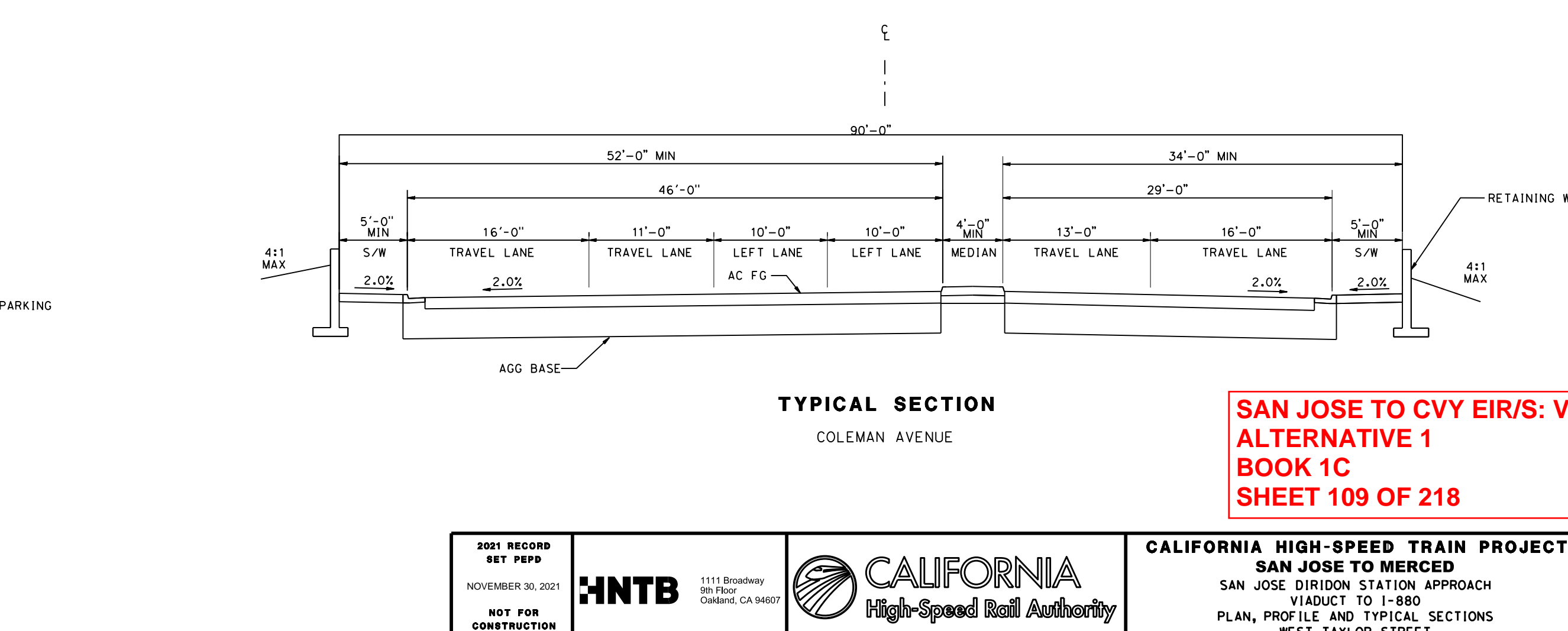
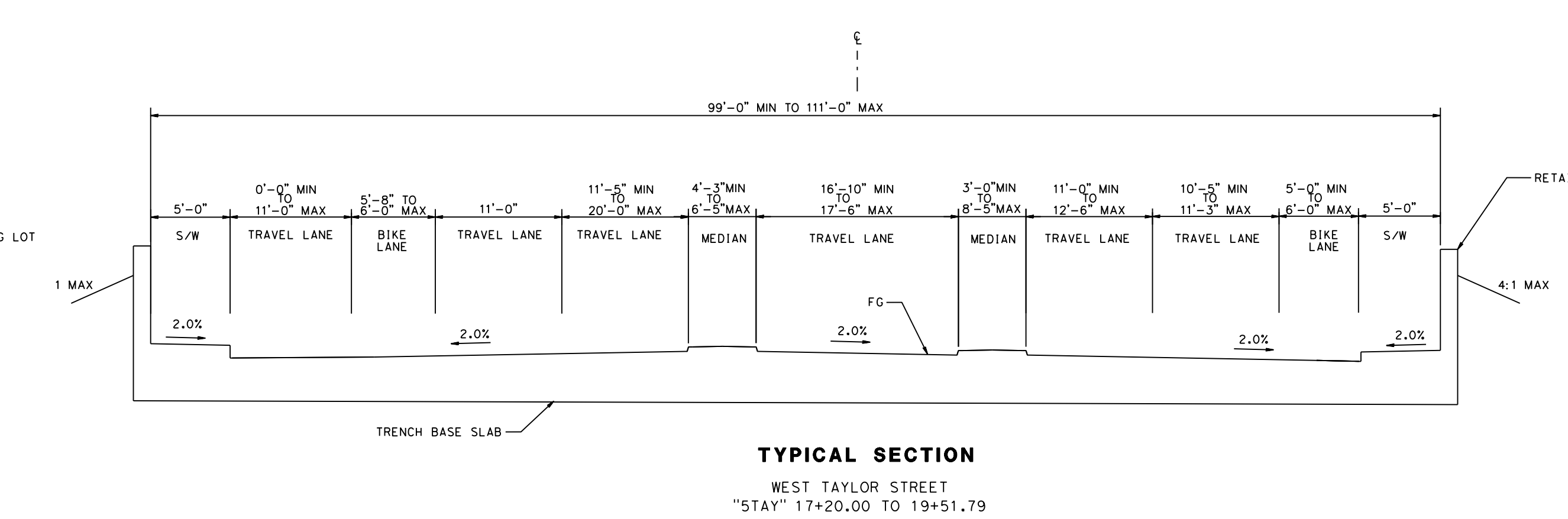
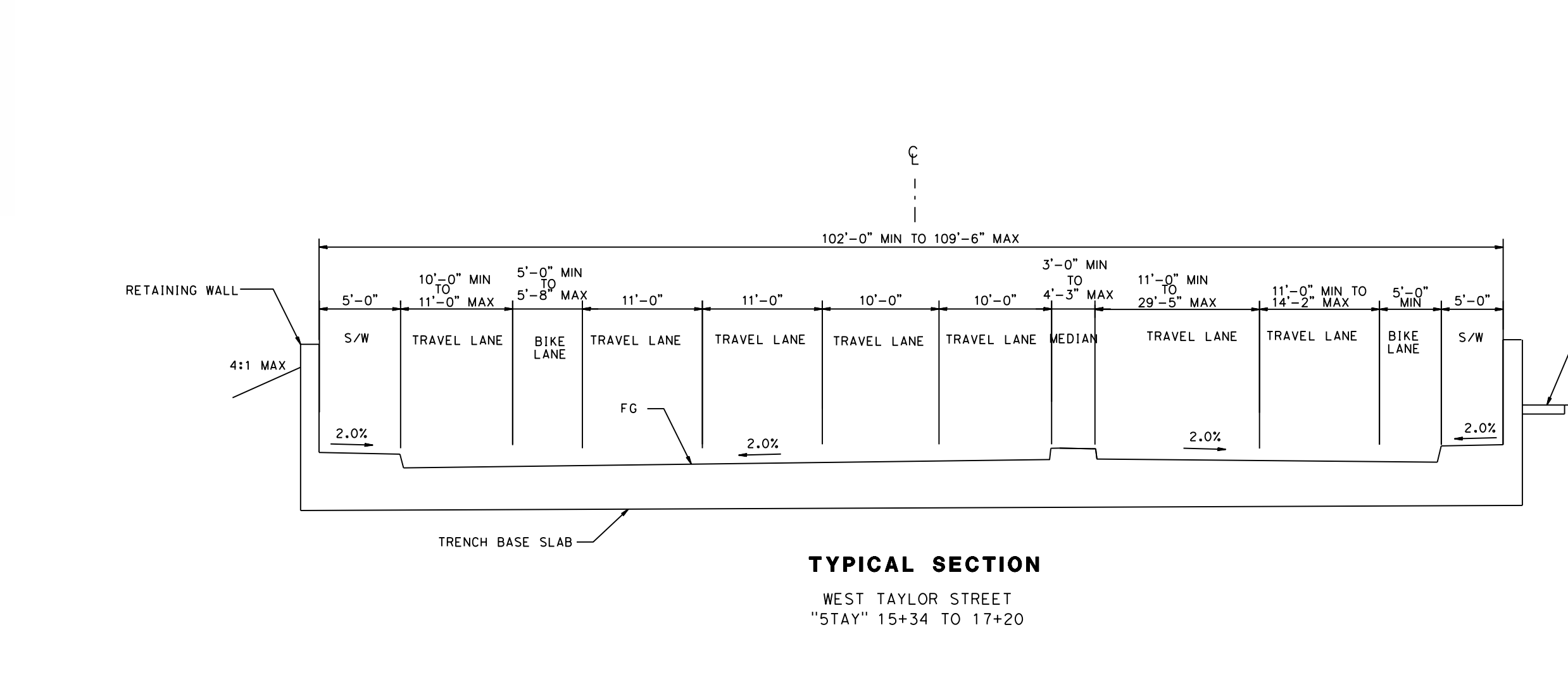
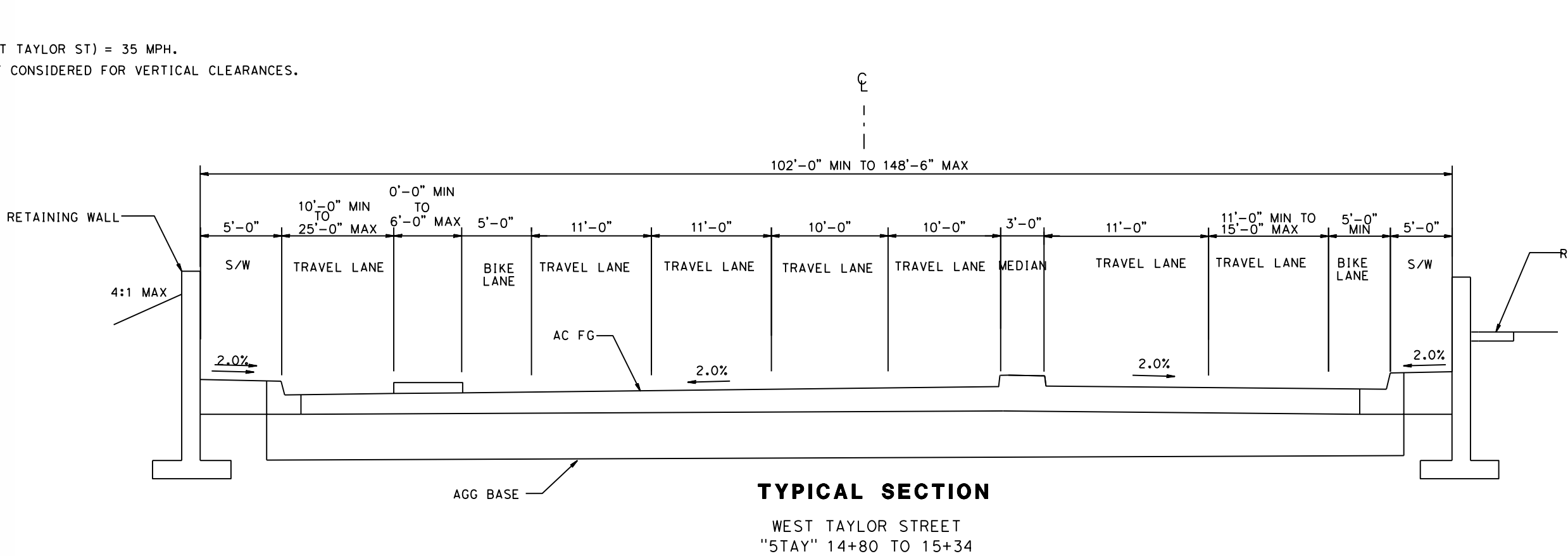
NO.	RADIUS	DELTA	TANGENT	LENGTH
①	3000.00'	4°07'59"	108.25'	216.41'
②	4000.00'	4°40'44"	163.42'	326.65'
③	3000.00'	1°22'41"	36.08'	72.16'

LINE DATA

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

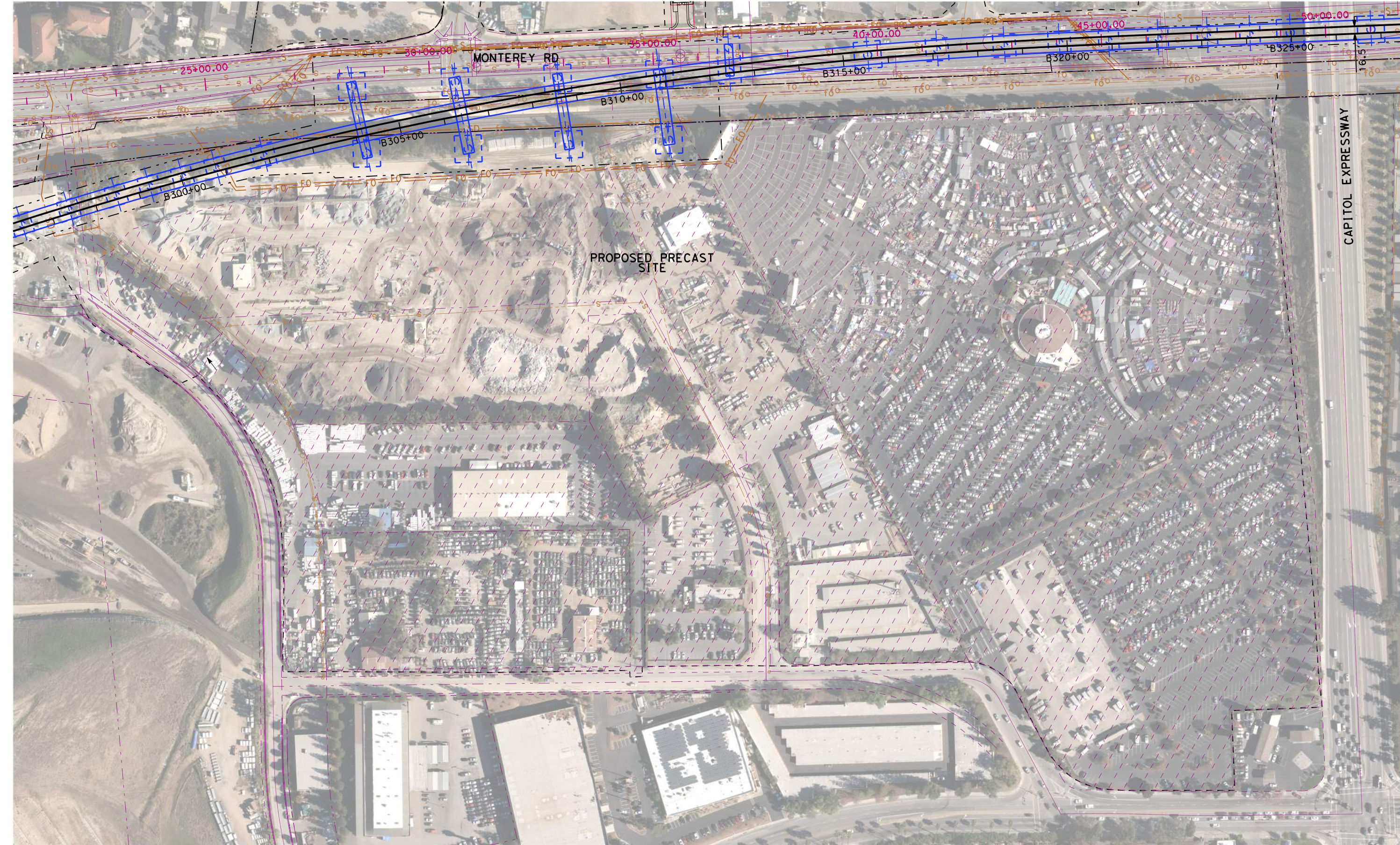


NO PROFILE REQUIRED

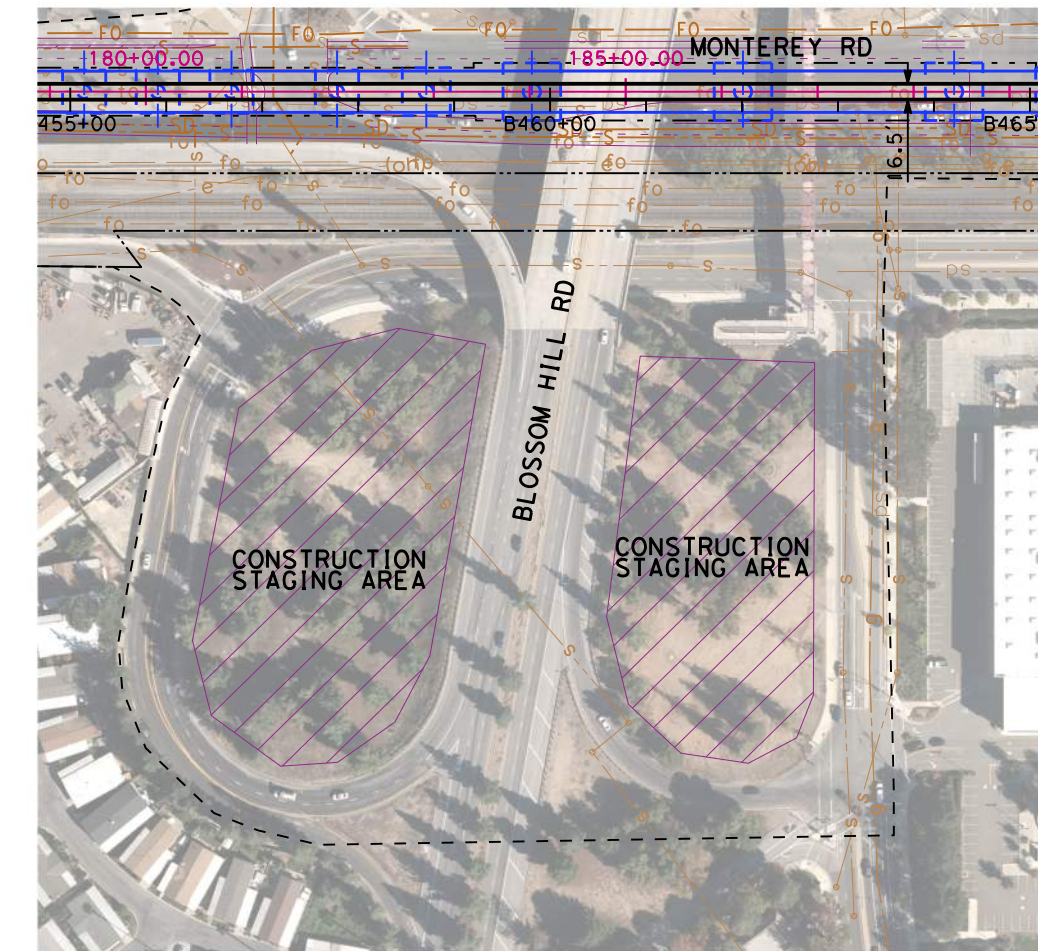
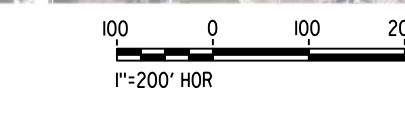


**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 109 OF 218**

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION		1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED SAN JOSE DIRIDON STATION APPROACH VIADUCT TO I-880 PLAN, PROFILE AND TYPICAL SECTIONS WEST TAYLOR STREET	CONTRACT NO. HSR15-34 DRAWING NO. CV-T0152 SCALE AS SHOWN SHEET NO.
---	--	---	--	--	--



**PROPOSED CONSTRUCTION STAGING AREA
AT STA B297+59 TO STA B325+08**
SCALE: 1"=200'



**PROPOSED CONSTRUCTION STAGING AREAS
STA B456+27 TO STA B433+00,
STA B460+59 TO STA B462+76**
SCALE: 1"=200'



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

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 110 OF 218**

2021 RECORD SET PERP
NOVEMBER 30, 2021
NOT FOR CONSTRUCTION

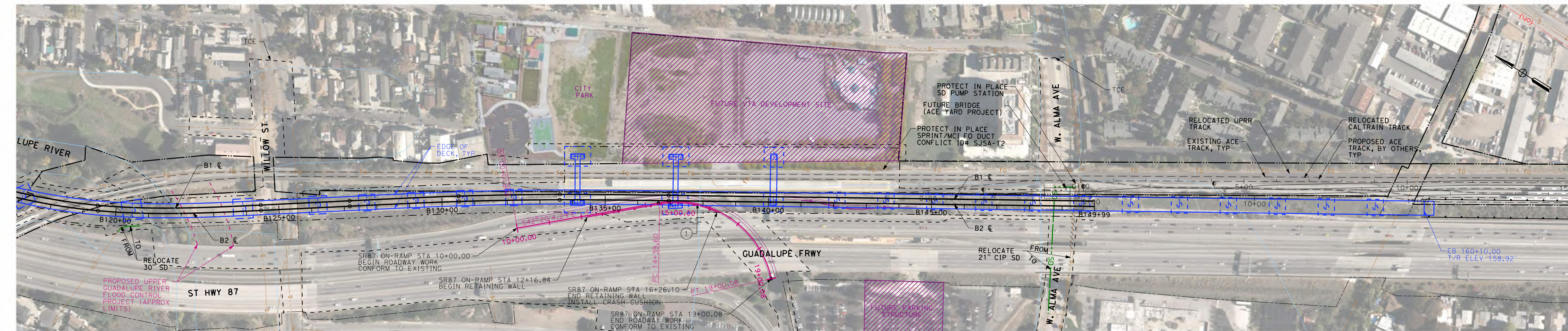


1111 Broadway
9th Floor
Oakland, CA 94607



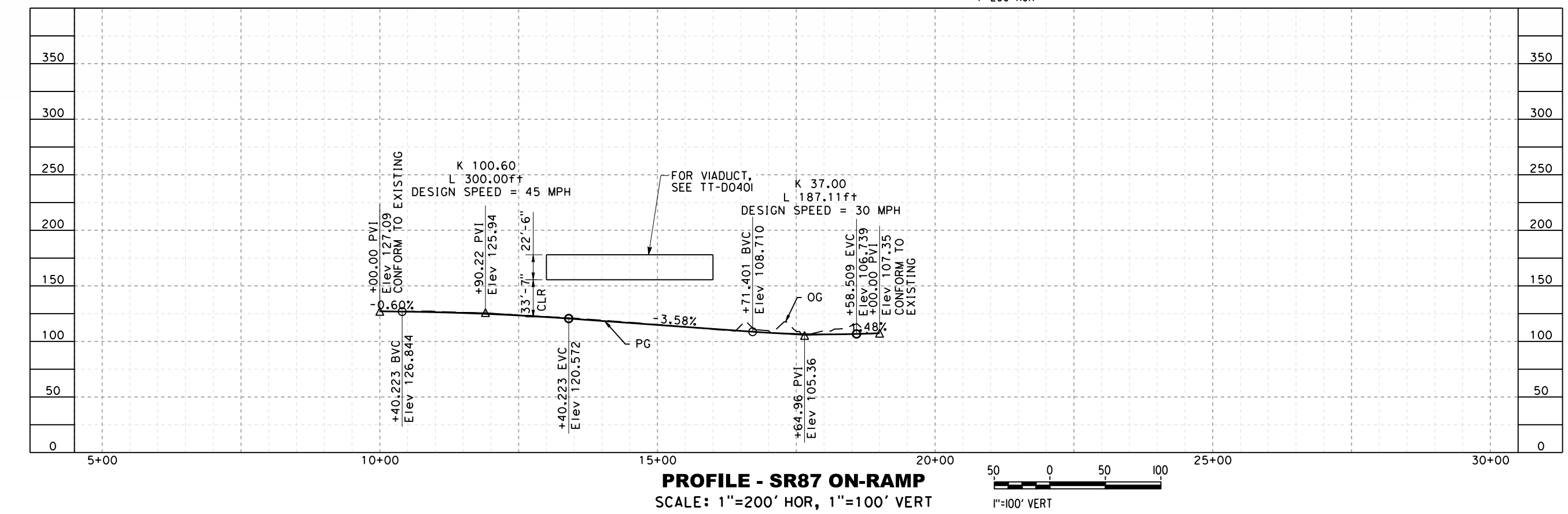
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
MONTEREY CORRIDOR
VIADUCT
CIVIL DETAILS**

CONTRACT NO. HSR15-34
DRAWING NO. CV-S0601
SCALE AS SHOWN
SHEET NO.

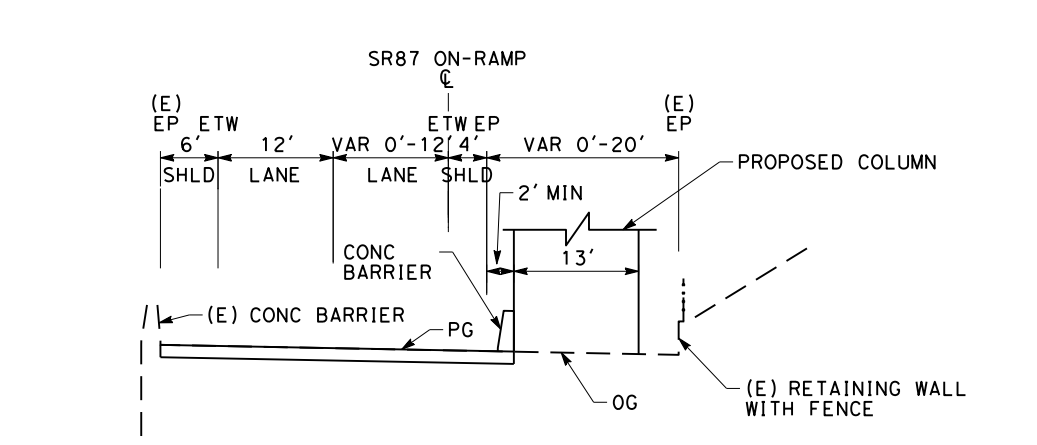


CURVE DATA SR87 ON-RAMP				
NO.	R	Δ	L	T
1	300	87°56'43.36"	460.481	289.430

PLAN - SR87 ON-RAMP
SCALE: 1"=100'
1"=200' HOR



PROFILE - SR87 ON-RAMP
SCALE: 1"=200' HOR, 1"=100' VERT
1"=100' VERT

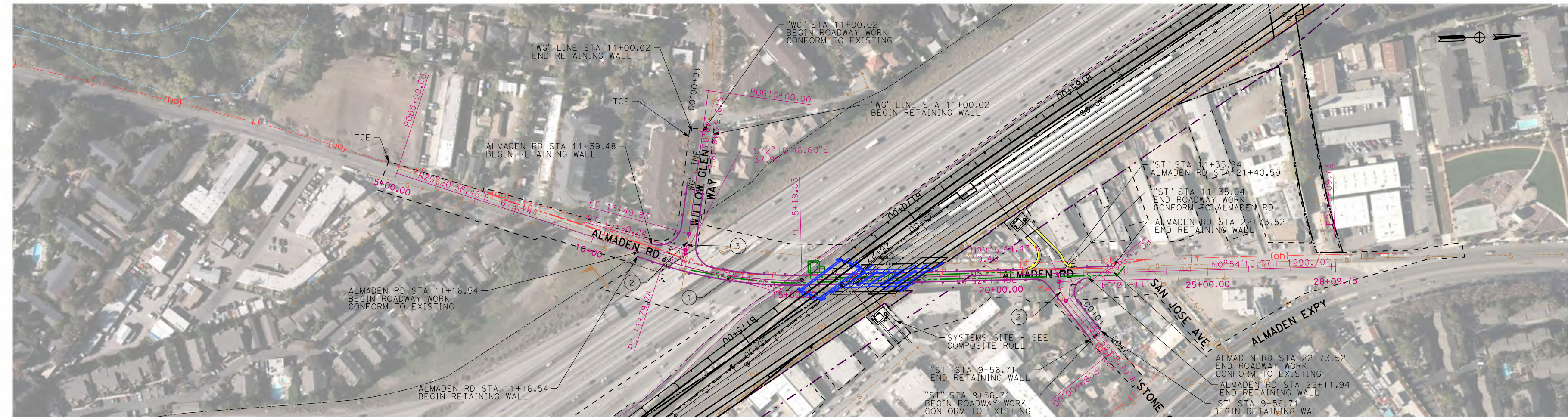


TYPICAL SECTION
SCALE: 1"=20'
SR87 ON-RAMP STA 10+00 TO SR87 ON-RAMP STA 19+00.08

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

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 111 OF 218

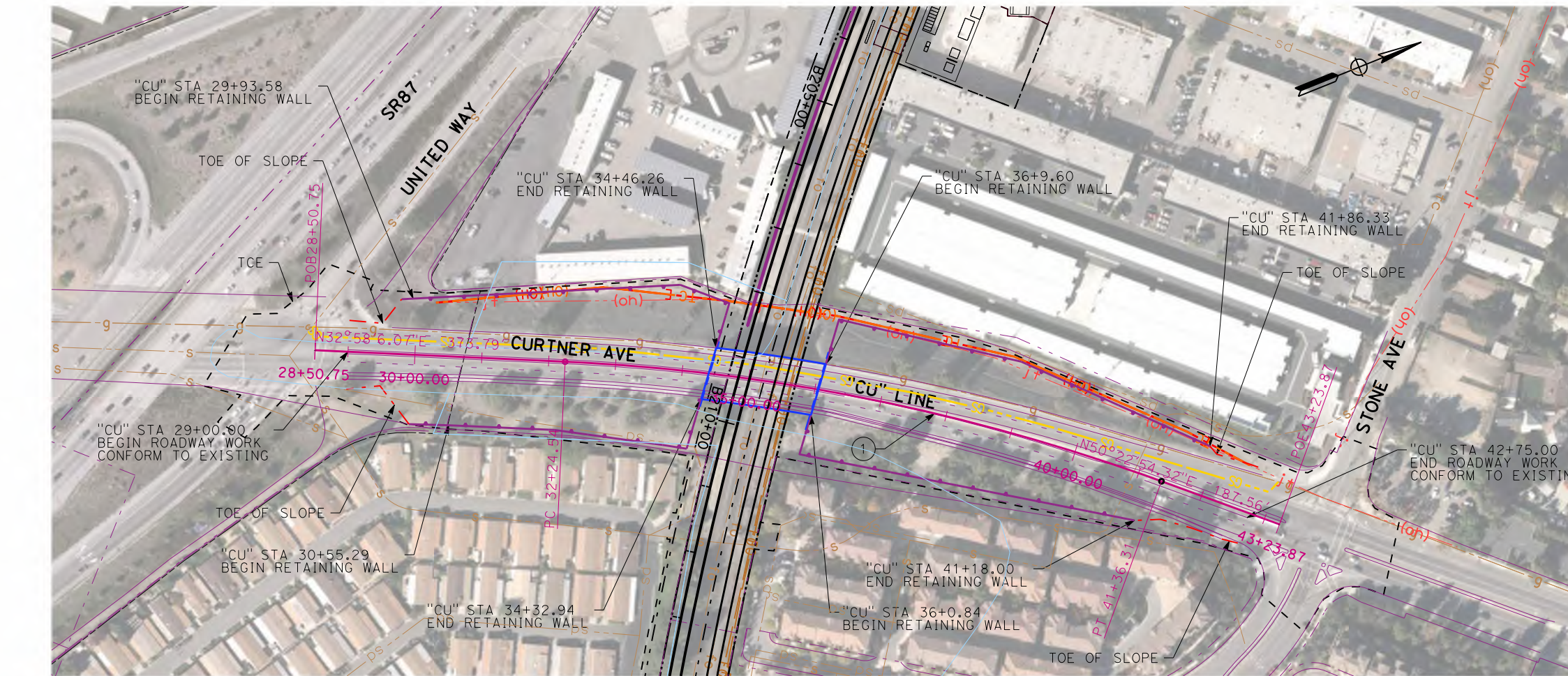
2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607	CALIFORNIA High-Speed Rail Authority	CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MONTEREY CORRIDOR VIADUCT AT-GRADE GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS SR87 ON-RAMP	CONTRACT NO. HSR15-34 DRAWING NO. CV-T0401 SCALE AS SHOWN SHEET NO.
---	--	--	--	---



PLAN - ALMADEN RD
SCALE: 1"=100'

1"=200' HOR

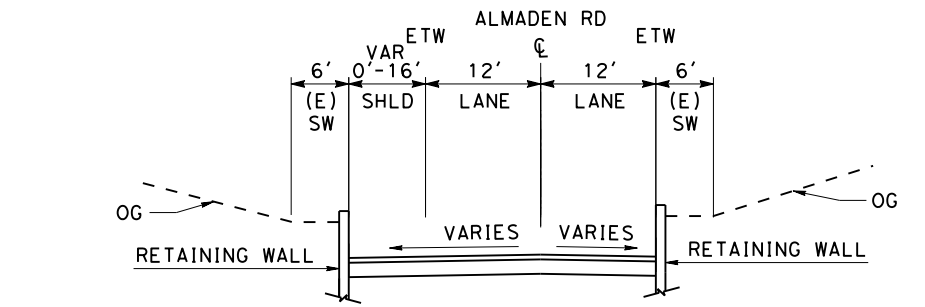
CURVE DATA ALMADEN RD, "ST", AND "WG" LINE				
NO.	R	Δ	T	L
1	1000	19°26'22.88"	339.287	171.290
2	77.47	36°54'16.87"	49.90	25.849
3	300	7°43'0.28"	40.405	20.233



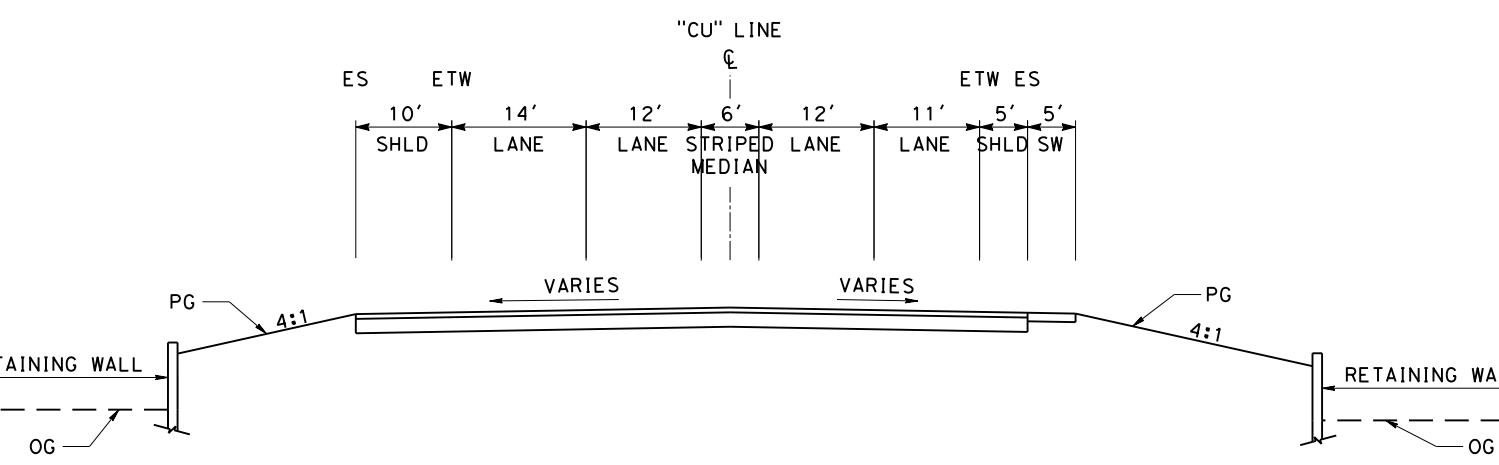
PLAN - CURTNER AVE
SCALE: 1"=100'

1"=200' HOR

CURVE DATA "CU" LINE				
NO.	R	Δ	T	L
1	3000	17°24'48.25"	911.764	459.424

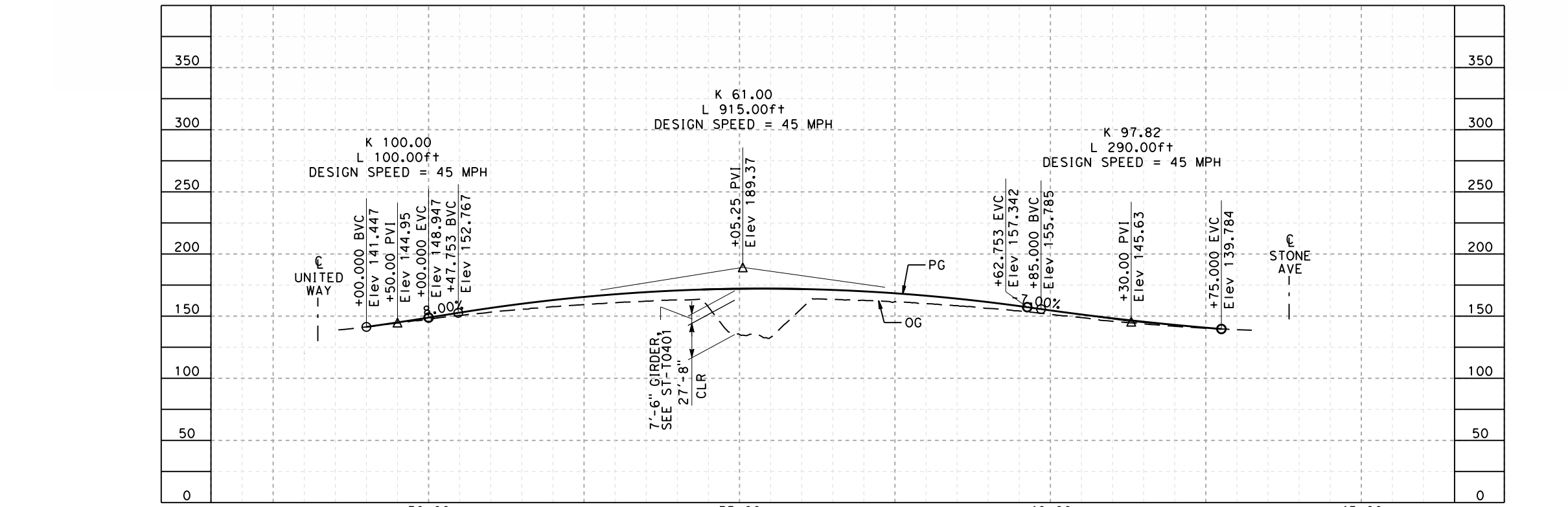
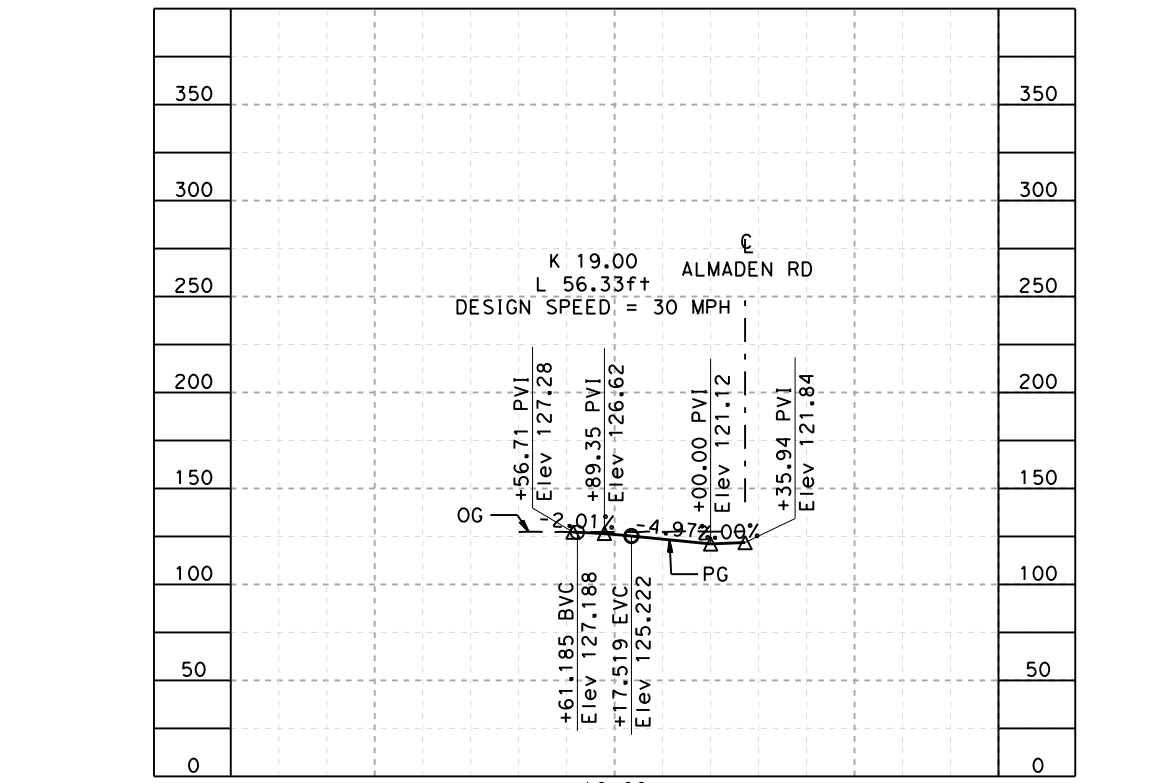
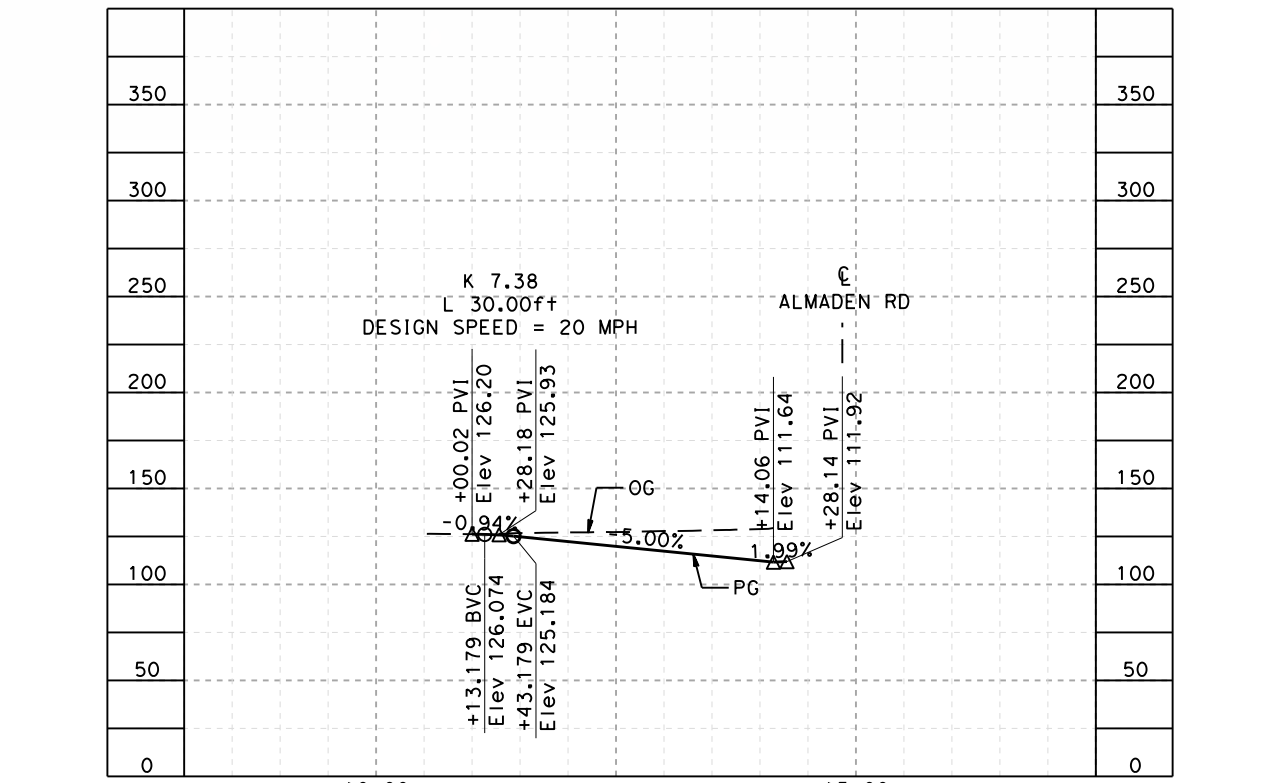
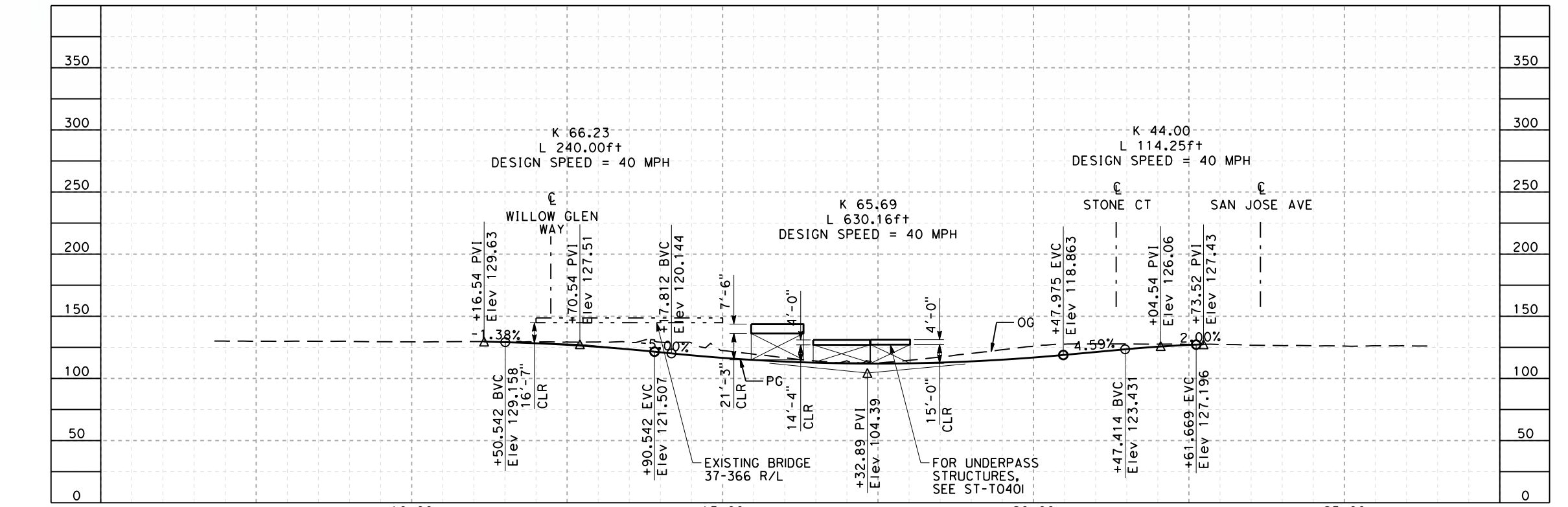


ALMADEN RD TYPICAL SECTION
SCALE: 1"=20'
ALMADEN RD STA 7+67.67 TO ALMADEN RD STA 22+47.36



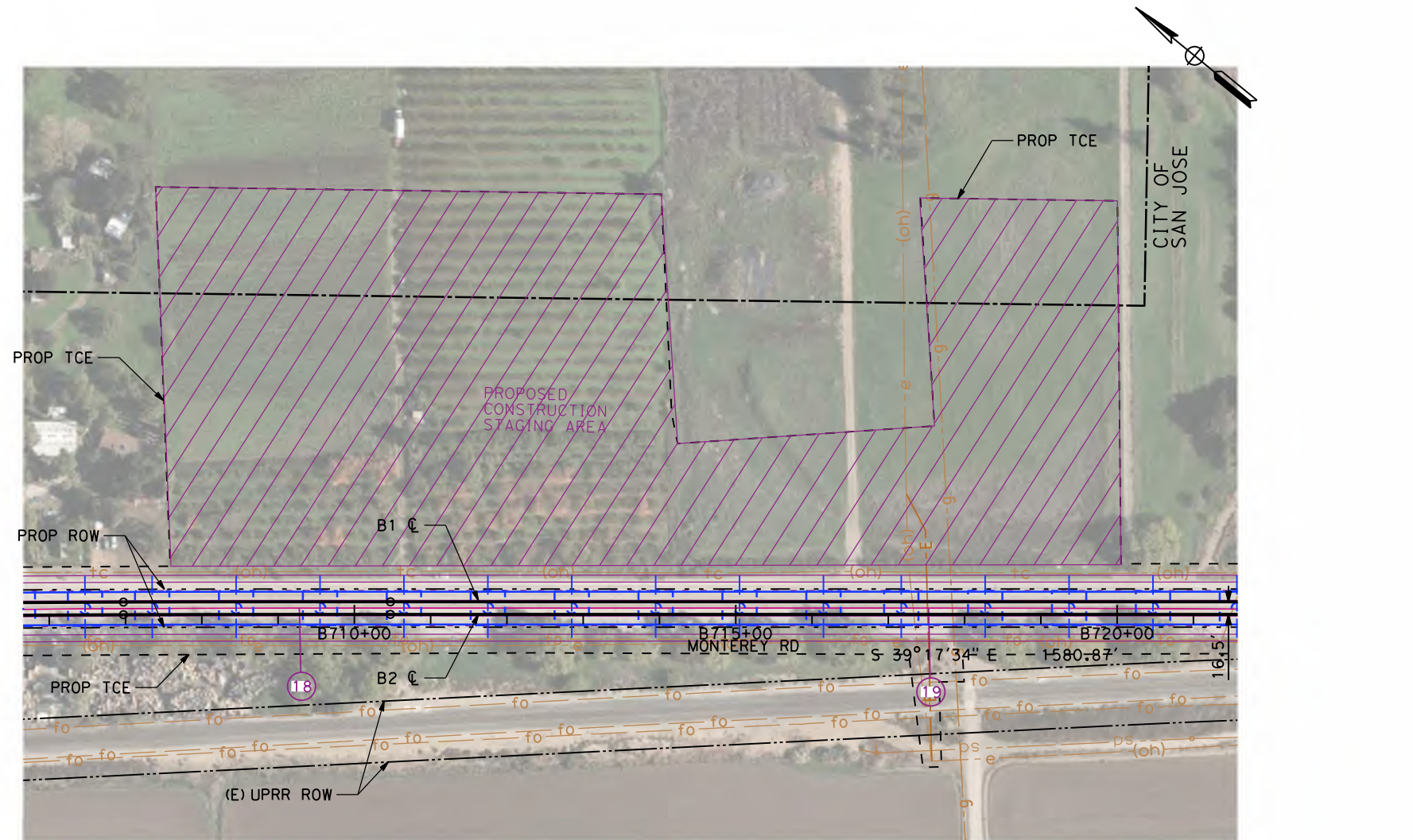
CURTNER AVE TYPICAL SECTION
SCALE: 1"=20'
CURTNER AVE STA 29+00.00 TO CURTNER AVE STA 42+75.00

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

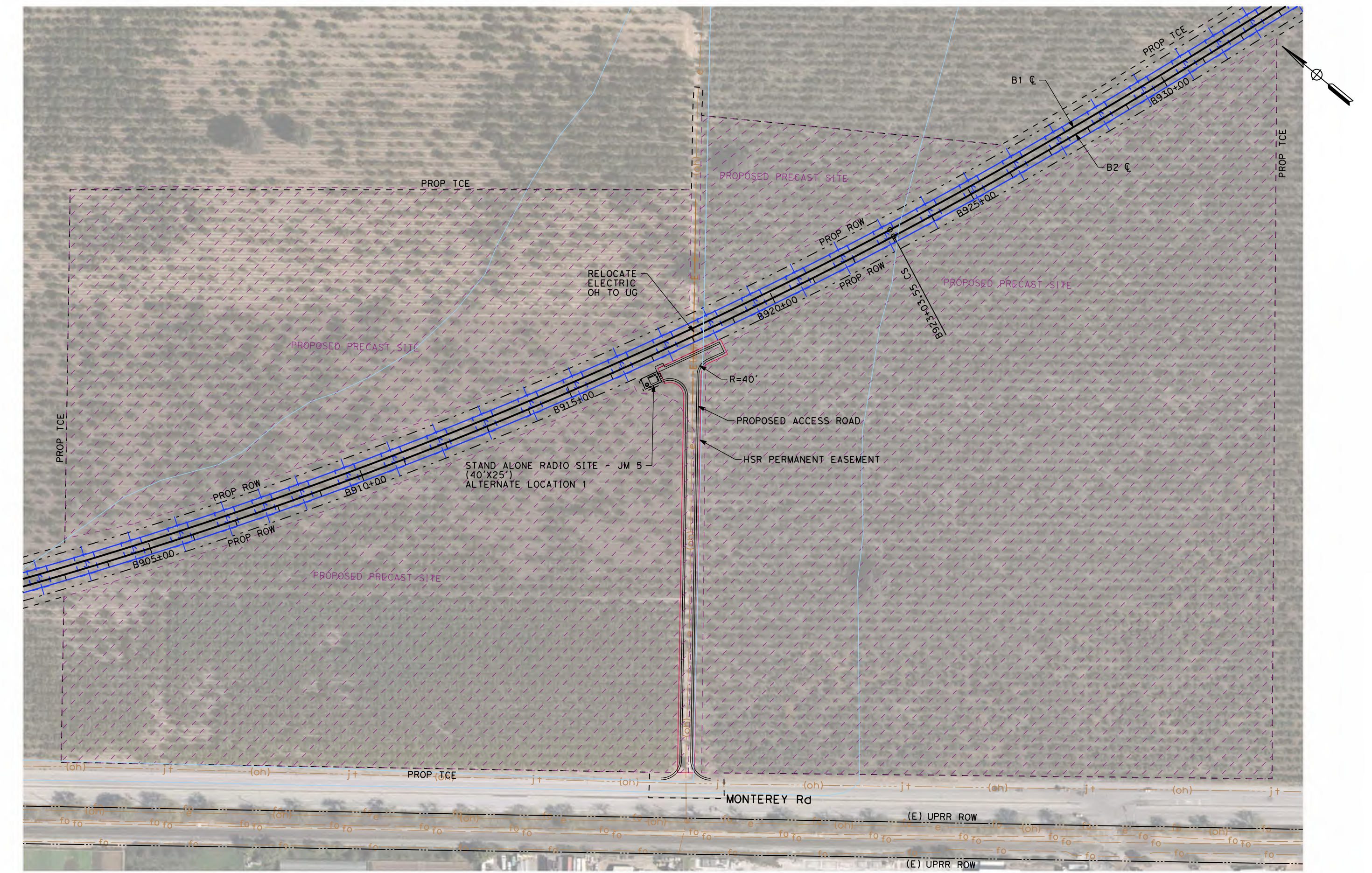
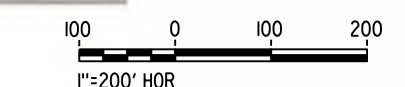


SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 112 OF 218

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607	CALIFORNIA High-Speed Rail Authority	CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MONTEREY CORRIDOR VIADUCT/AT-GRADE LAYOUT, PROFILE, & CROSS SECTIONS ALMADEN ROAD AND CURTNER AVENUE	CONTRACT NO. HSR15-34 DRAWING NO. CV-T0402 SCALE AS SHOWN SHEET NO.
---	--	--	--	--



**PROPOSED STAGE CONSTRUCTION STAGING AREA
AT STA B707+59 TO STA B720+05**
SCALE: 1"=200'



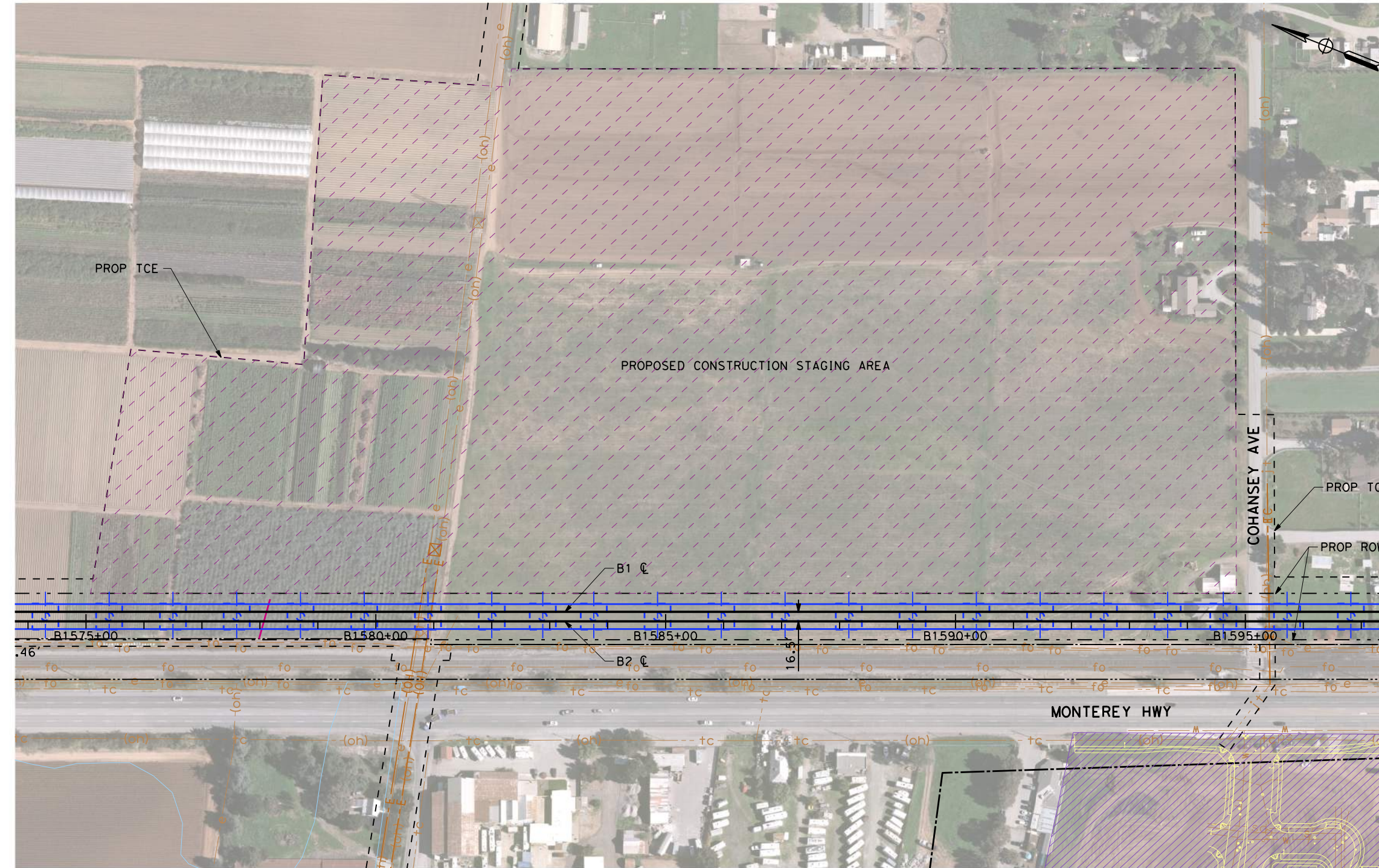
ACCESS ROAD TO MONTEREY ROAD
SCALE: 1"=200'



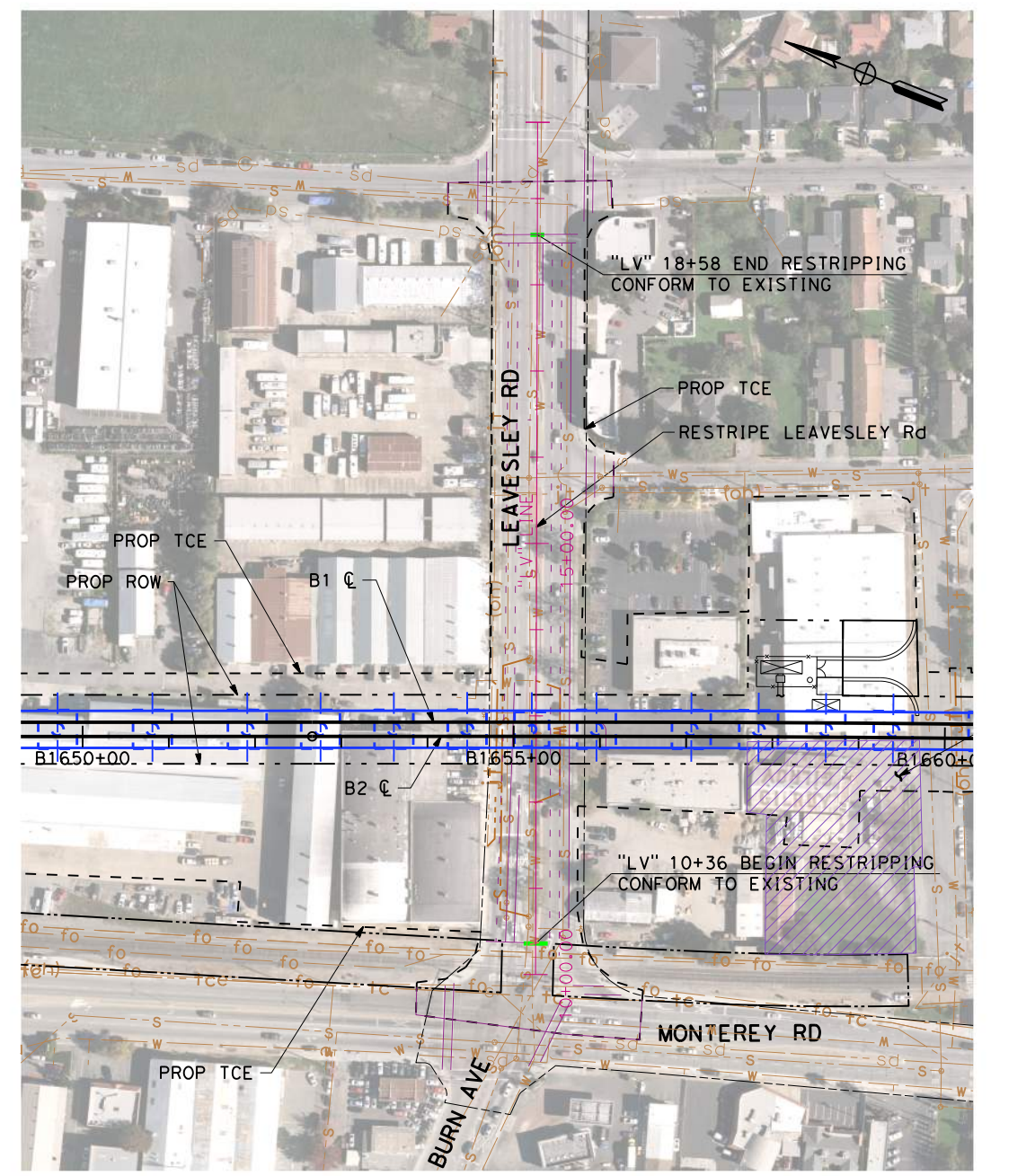
NOTE:
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 113 OF 218**

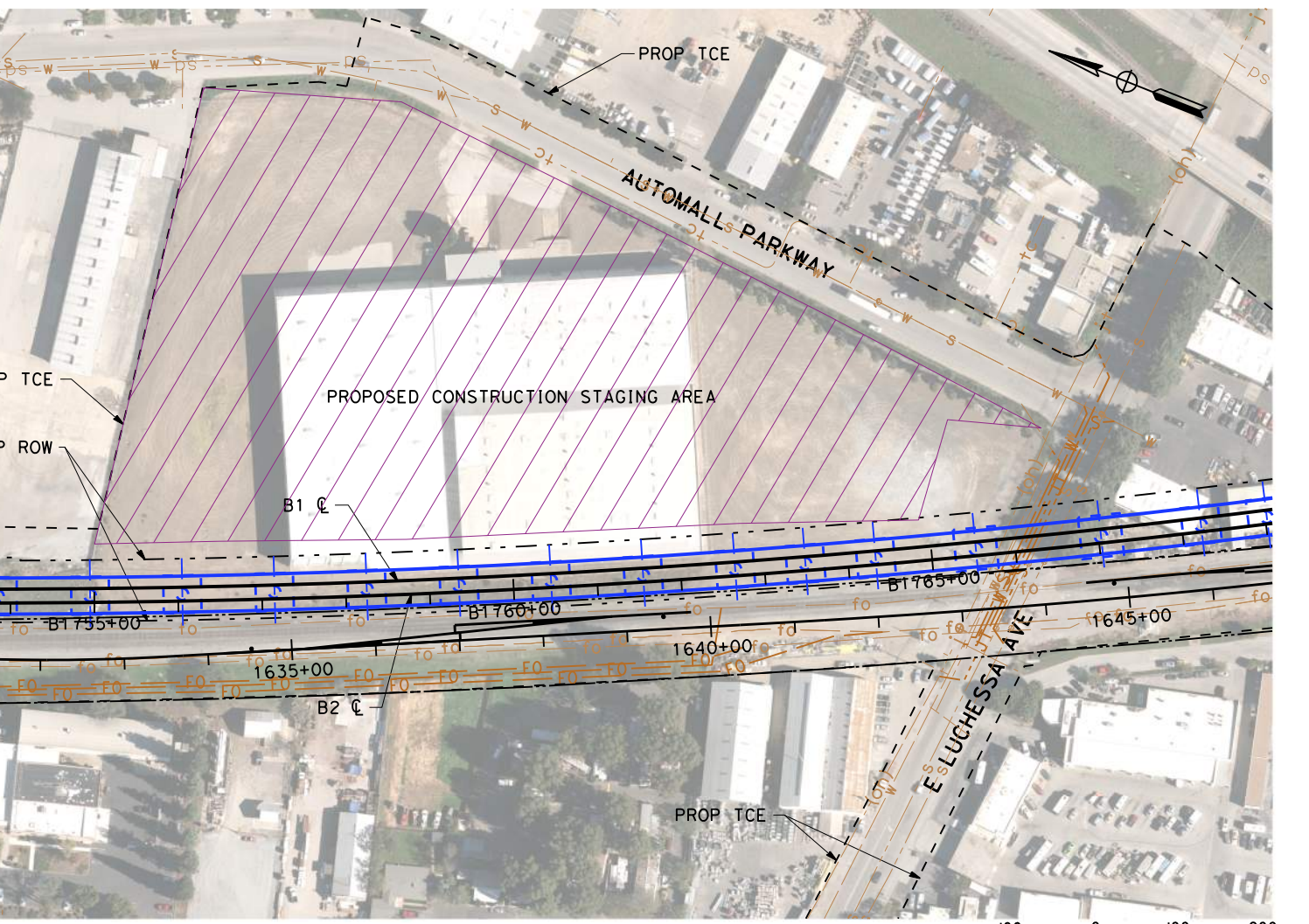
2021 RECORD SET PERD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION		1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MORGAN HILL AND GILROY VIADUCT TO DOWNTOWN GILROY CIVIL DETAILS	CONTRACT NO. HSR15-34 DRAWING NO. CV-S0701 SCALE AS SHOWN SHEET NO.
---	--	---	--	---	--



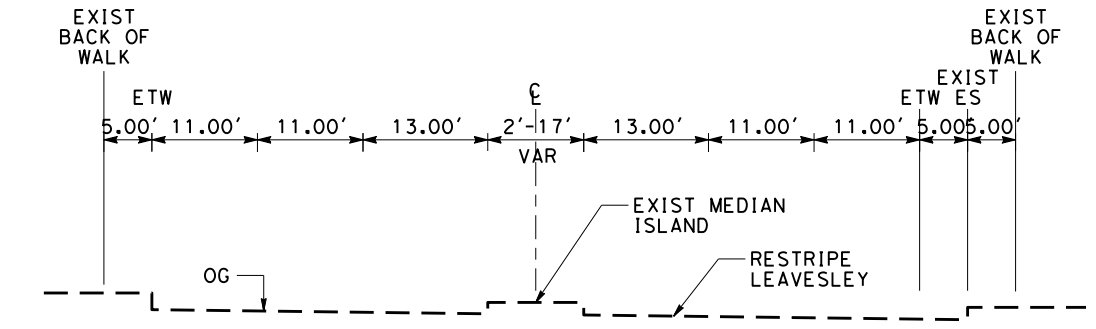
**STAGE CONSTRUCTION AREA
AT STA B1575+12 TO STA B1594+85**
SCALE: 1"=200'



PLAN LEAVESLEY ROAD
SCALE: 1"=200'



**STAGE CONSTRUCTION AREA
AT STA B1755+00 TO STA B1765+45**
SCALE: 1"=200'



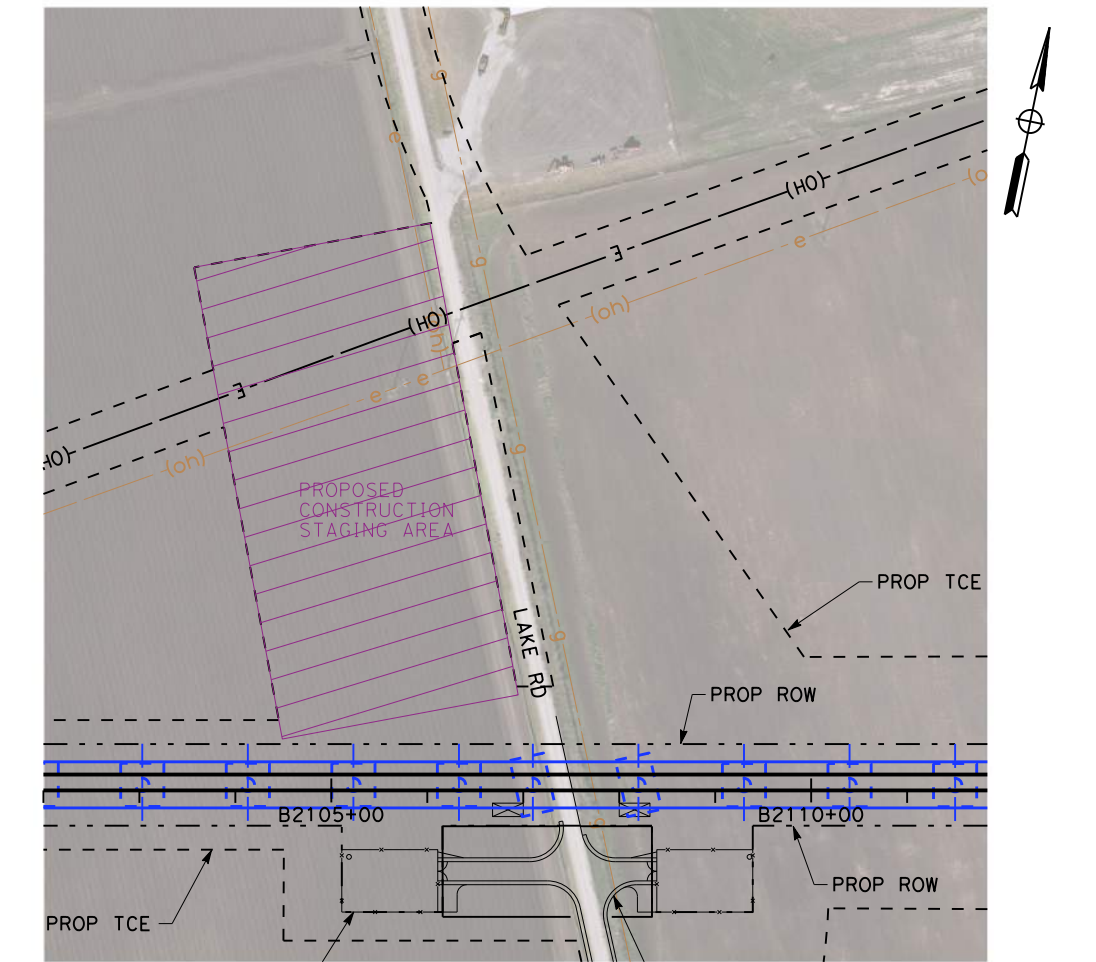
LEAVESLEY RD TYPICAL SECTION
SCALE: 1"=20'
"LV" STA 10+00.00 TO "LV" STA 19+19.79

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

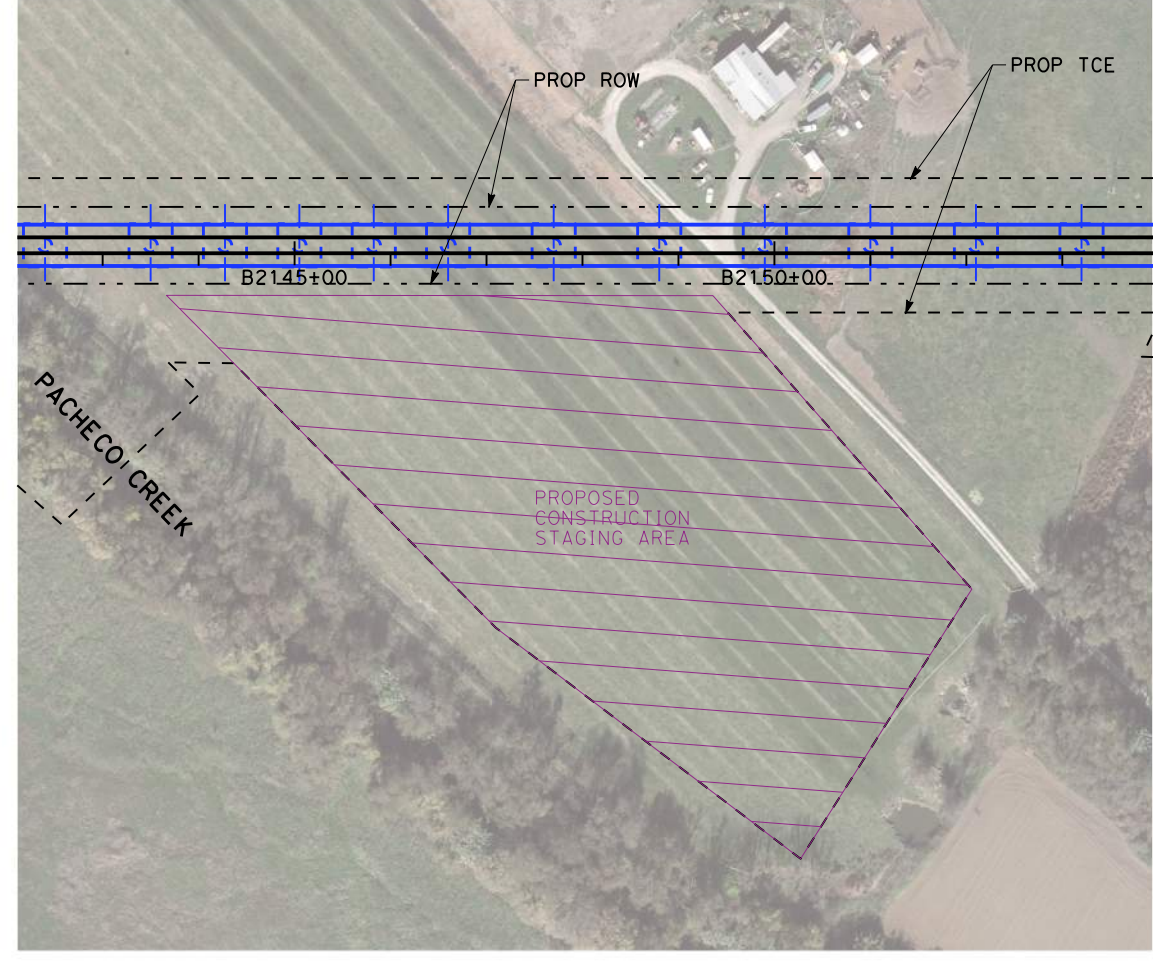
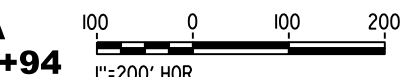
**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 114 OF 218**

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MORGAN HILL AND GILROY VIADUCT TO DOWNTOWN GILROY CIVIL DETAILS	CONTRACT NO. HSR15-34 DRAWING NO. CV-50901 SCALE AS SHOWN SHEET NO.
---	--	--	---	--

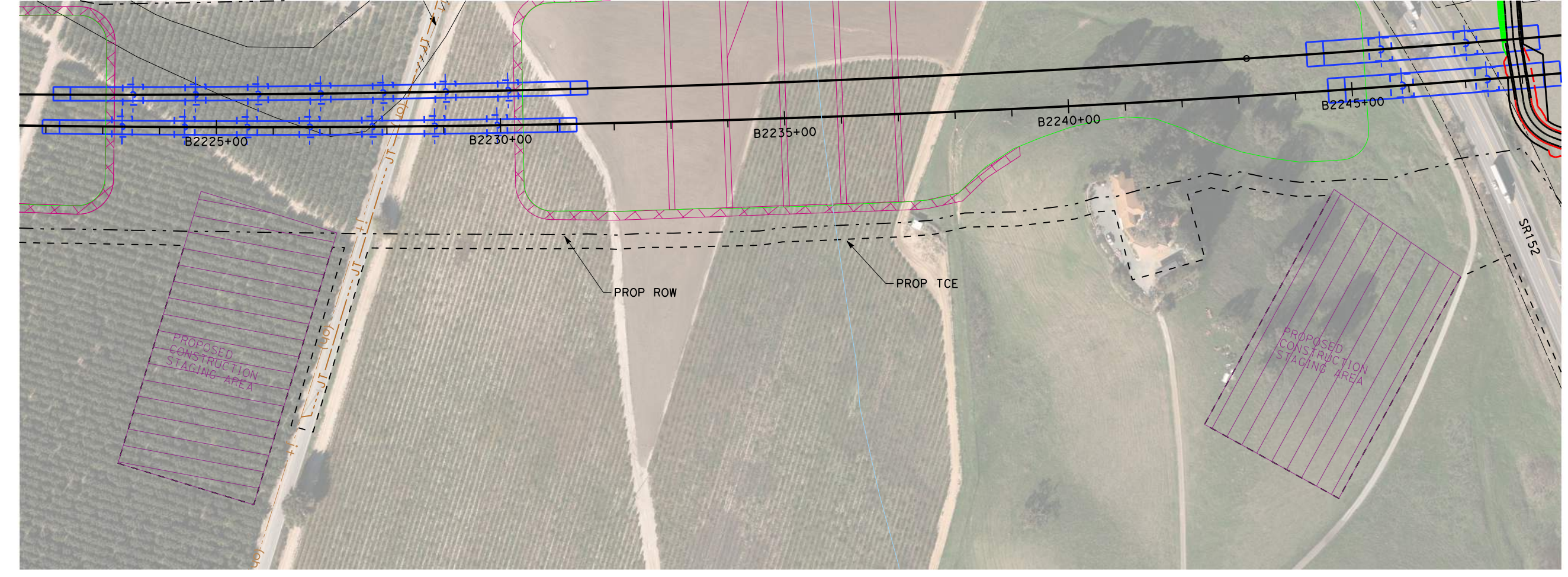
10/27/2021 04:53:33 AM d:\p06072.tbl d:\p06072.tbl 2021/11/30 10:27:20 AM 10/27/2021 04:53:33 AM d:\p06072.tbl d:\p06072.tbl 2021/11/30 10:27:20 AM



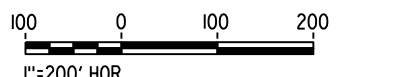
**STAGE CONSTRUCTION AREA
AT STA B2103+57 TO STA B2106+94**
SCALE: 1"=200'



**STAGE CONSTRUCTION AREA
AT STA B2143+67 TO STA B2152+06**
SCALE: 1"=200'



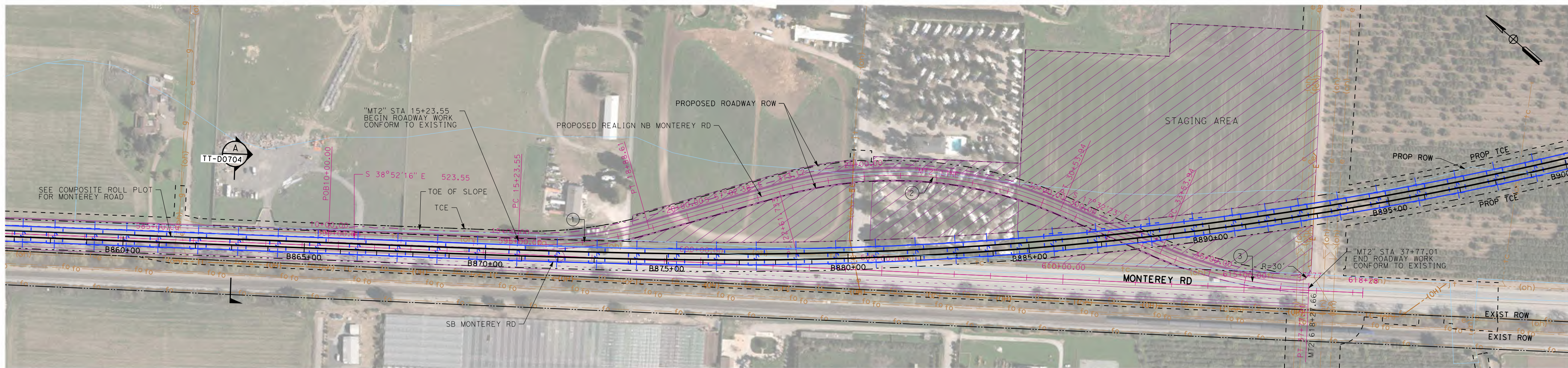
**STAGE CONSTRUCTION AREA
AT STA B2223+31 TO STA B2227+15
AT STA B2242+06 TO STA B2246+66**
SCALE: 1"=200'



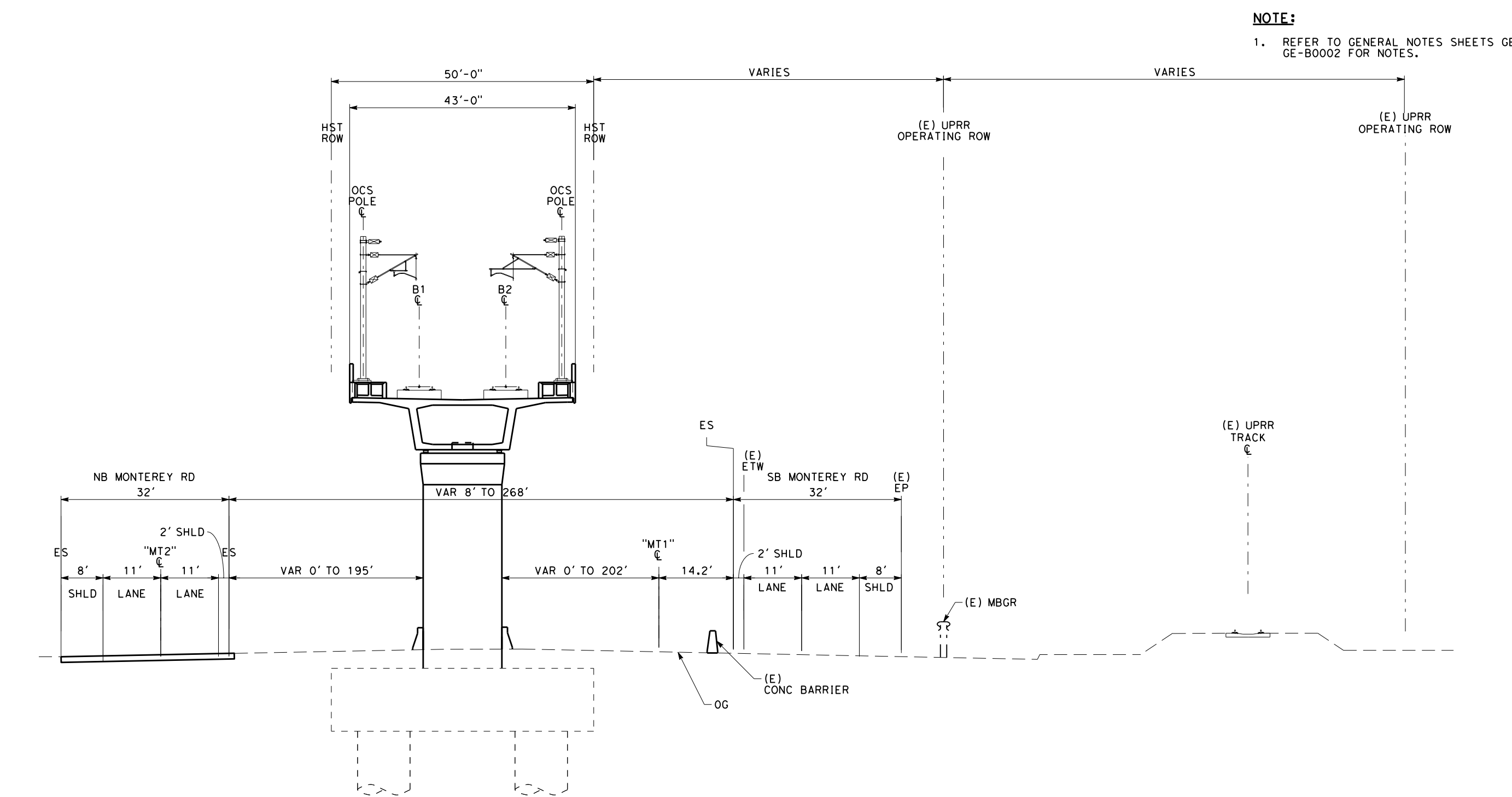
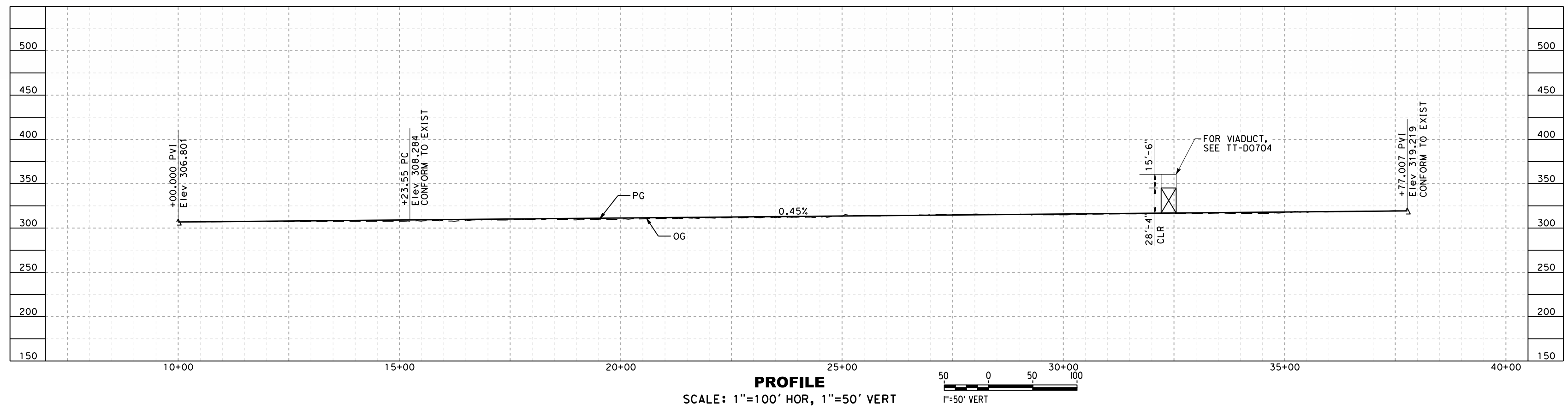
**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 115 OF 218**

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION		1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MORGAN HILL AND GILROY VIADUCT TO DOWNTOWN GILROY CIVIL DETAILS	CONTRACT NO. HSR15-34 DRAWING NO. CV-S1201 SCALE AS SHOWN SHEET NO.
---	--	---	--	--	--

10/27/2021 08:51:12 AM c:\p021\021085112.dwg c:\p021\021085112.dwg 11/30/2021 10:51:12 AM c:\p021\021085112.dwg



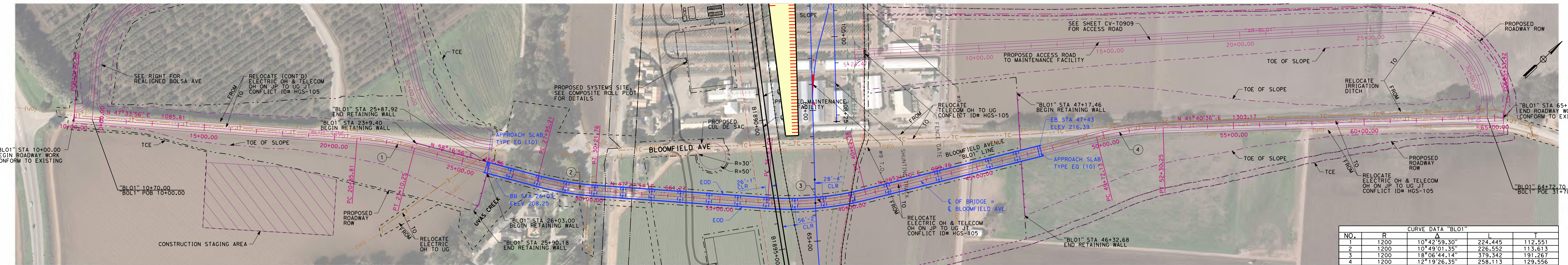
NO.	R	Δ	L	T
1	1151	18°10'21.47"	365.065	184.078
2	1149	39°30'14.68"	792.208	412.579
3	1151	21°03'35.46"	423.066	213.947



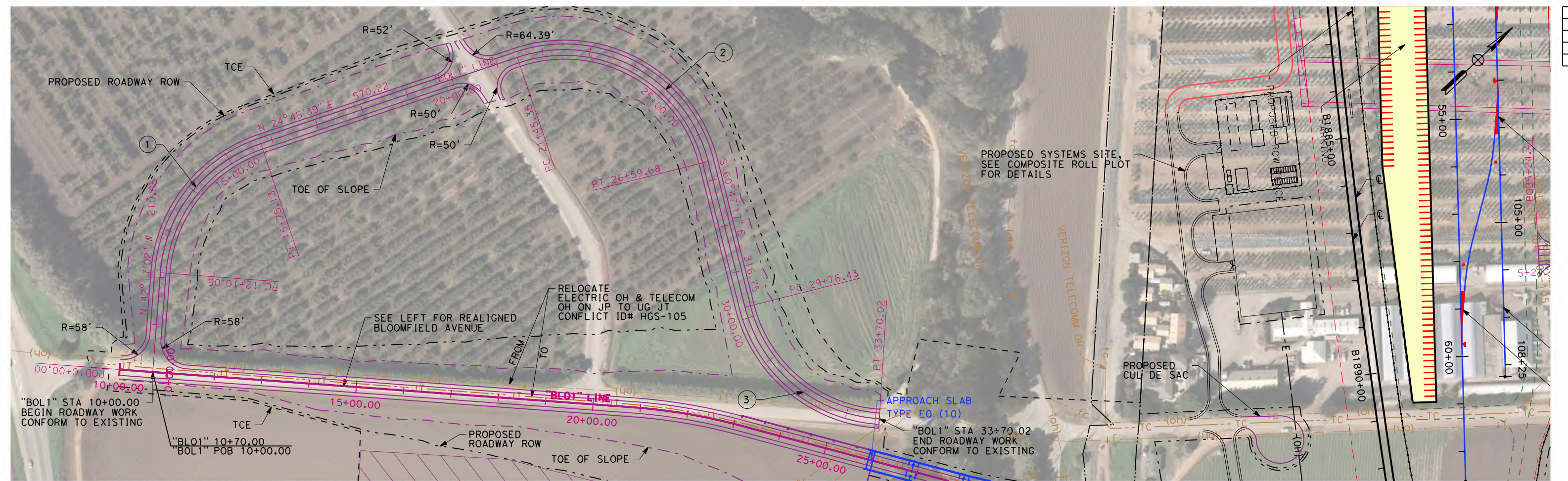
NOTE:
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 116 OF 218

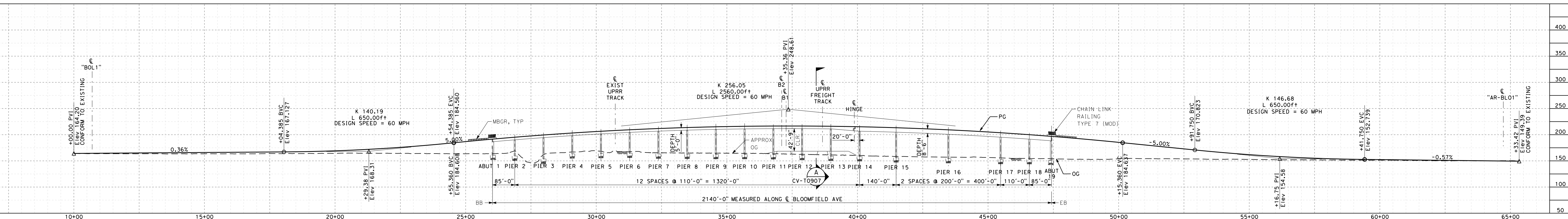
2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MORGAN HILL AND GILROY VIADUCT TO DOWNTOWN GILROY GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS MONTEREY ROAD	CONTRACT NO. HSR15-34 DRAWING NO. CV-T0704 SCALE AS SHOWN SHEET NO.
---	--	--	---	--



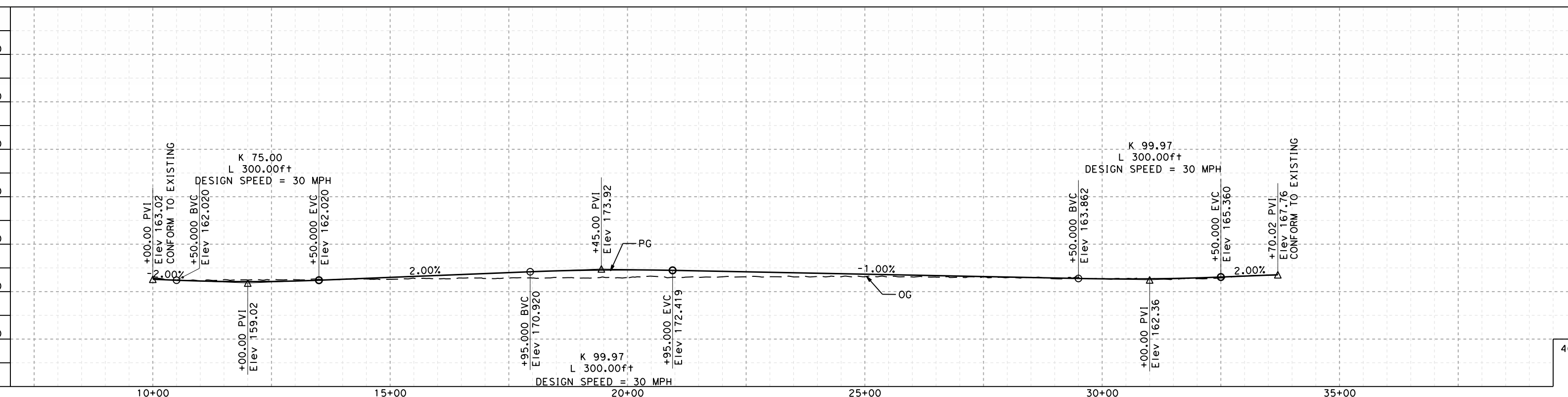
PLAN - BLOOMFIELD AVENUE "BLO1"
SCALE: 1"=200'
1"=200' HOR



PLAN - BOLSA AVENUE "BOL1"
SCALE: 1"=100'
1"=200' HOR

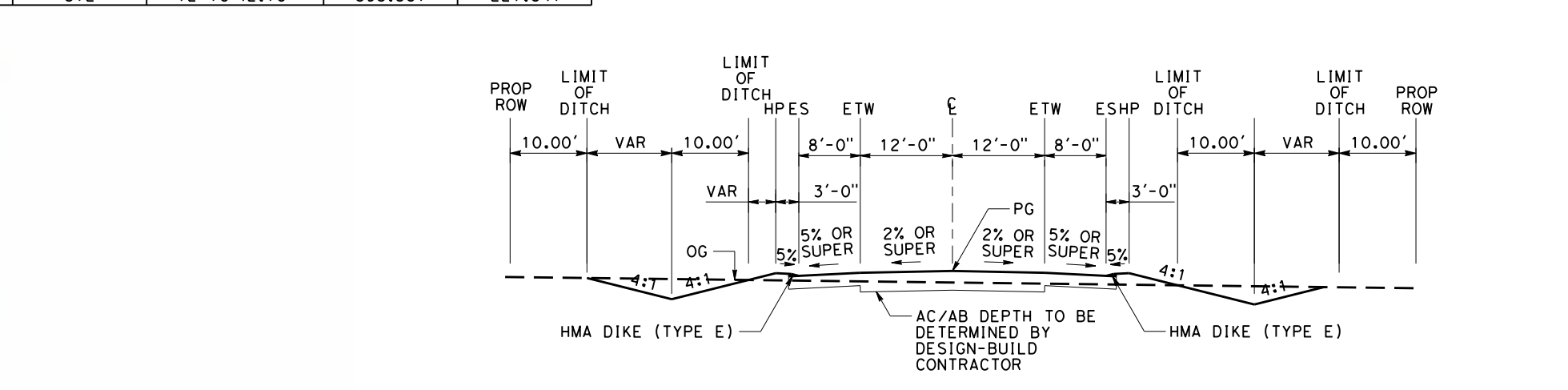


PROFILE - BLOOMFIELD AVENUE "BLO1"
SCALE: 1"=200' HOR, 1"=100' VERT
1"=100' VERT

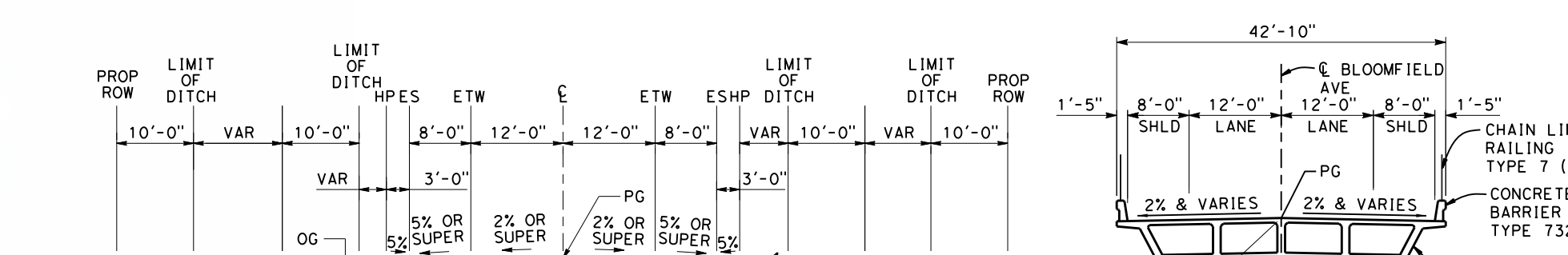


PROFILE - BOLSA AVENUE "BOL1"
SCALE: 1"=200' HOR, 1"=100' VERT
1"=100' VERT

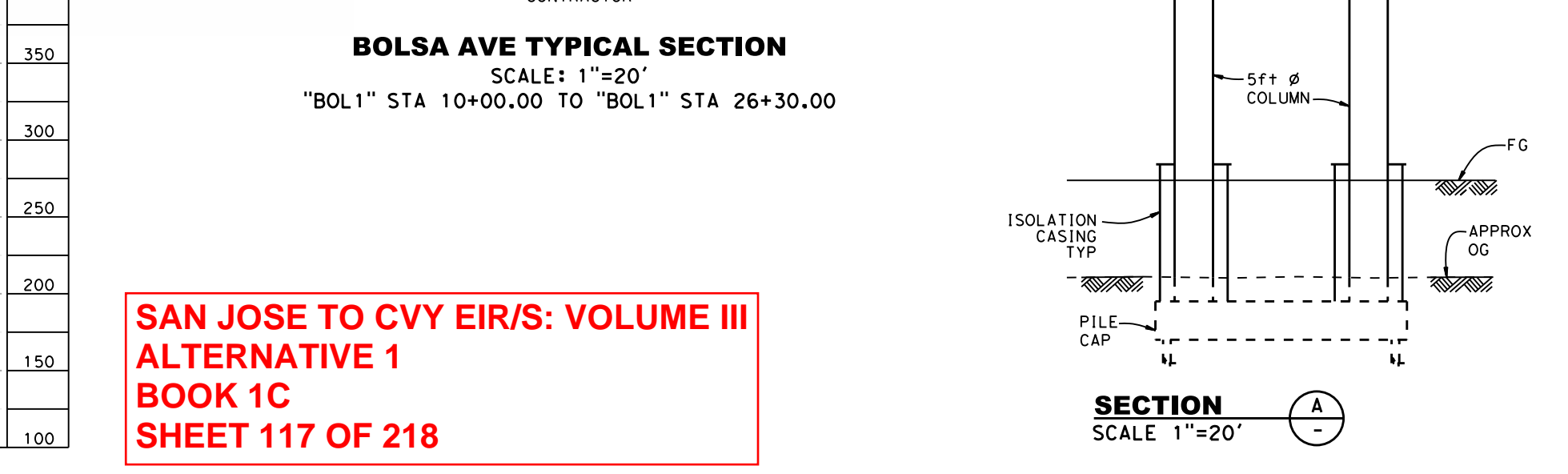
CURVE DATA "BOL1"				
NO.	R	Δ	L	T
1	312	67°02'20.61"	365.087	206.683
2	312	94°27'04.02"	514.327	337.231
3	312	72°16'42.16"	393.587	227.841



BLOOMFIELD AVE TYPICAL SECTION
SCALE: 1"=20'
"BLO1" STA 10+00.00 TO "BLO1" STA 52+02.31



BOLSA AVE TYPICAL SECTION
SCALE: 1"=20'
"BOL1" STA 10+00.00 TO "BOL1" STA 26+30.00



SECTION A-A
SCALE 1"=20'

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 117 OF 218

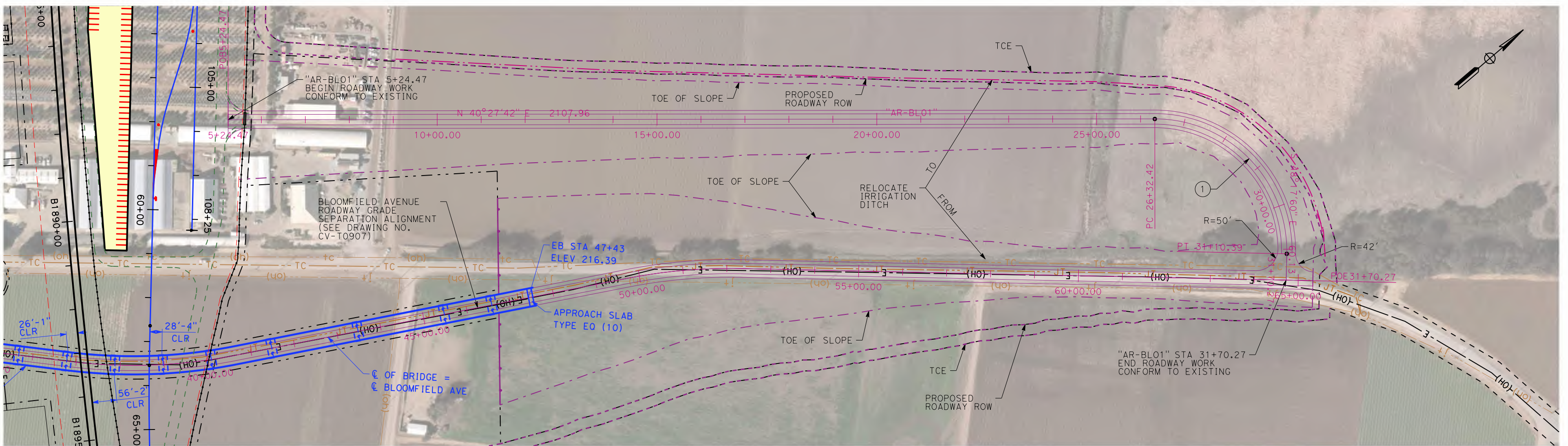
2021 RECORD SET PERP
NOVEMBER 30, 2021
NOT FOR CONSTRUCTION

HNTB
1111 Broadway
9th Floor
Oakland, CA 94607

CALIFORNIA High-Speed Rail Authority

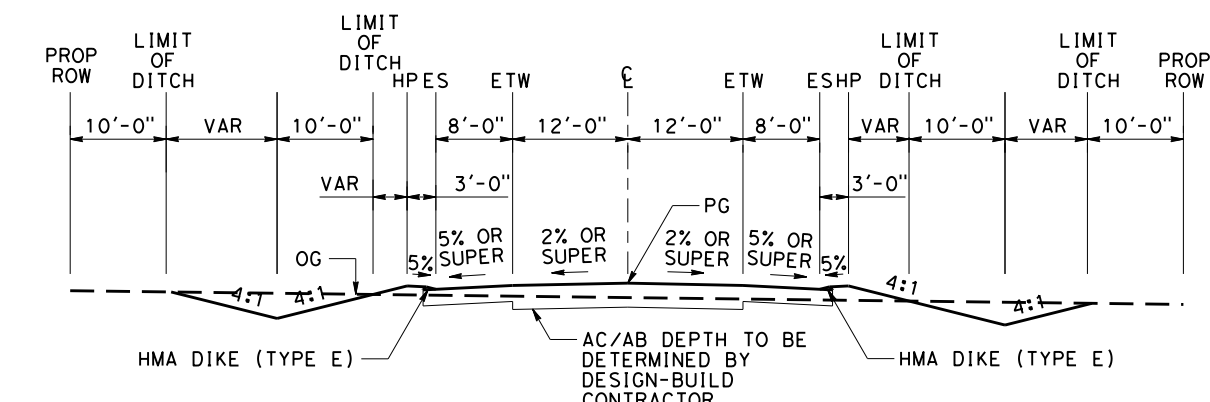
CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
VIADUCT TO DOWNTOWN GILROY
GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS
BOLSA ROAD AND BLOOMFIELD AVENUE

CONTRACT NO. HSR15-34
DRAWING NO. CV-T0907
SCALE AS SHOWN
SHEET NO.

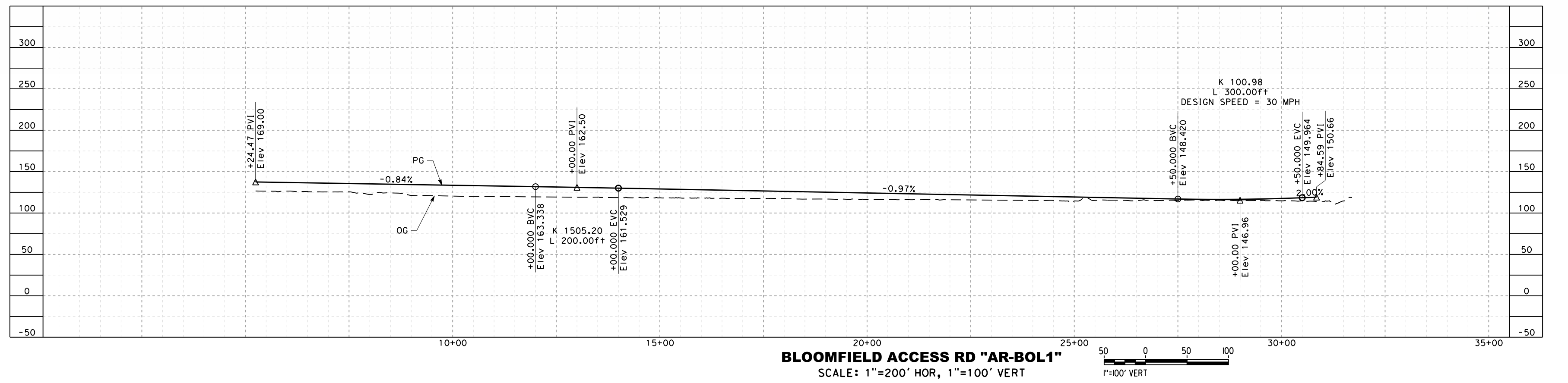


CURVE DATA "AR-BL01"				
NO.	R	Δ	L	PC
1	300	91°14'18.58"	477.724	306.556

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



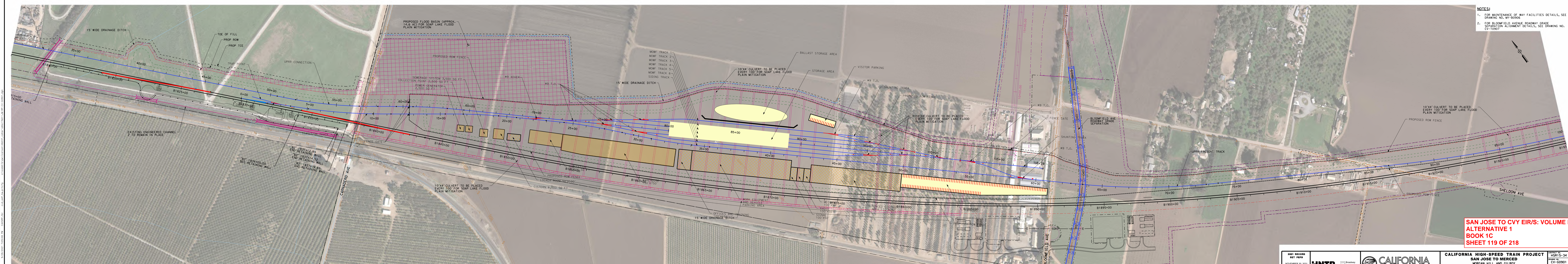
BLOOMFIELD ACCESS RD TYPICAL SECTION
SCALE: 1"=20'
"AR-BL01" STA 10+00.00 "AR-BL01" STA TO 30+84.59



BLOOMFIELD ACCESS RD "AR-BL01"
SCALE: 1"=200' HOR, 1"=100' VERT

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 118 OF 218

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCY		CONTRACT NO. HSR15-34
			MORGAN HILL AND GILROY VIADUCT TO DOWNTOWN GILROY GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS BLOOMFIELD ACCESS ROAD		DRAWING NO. CV-T0909
					SCALE AS SHOWN
					SHEET NO.



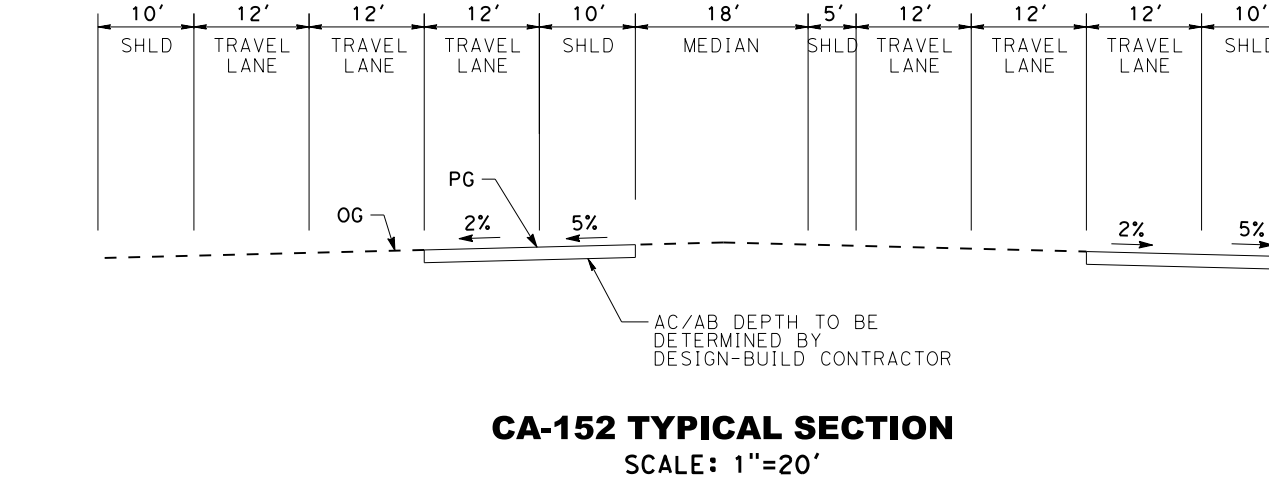
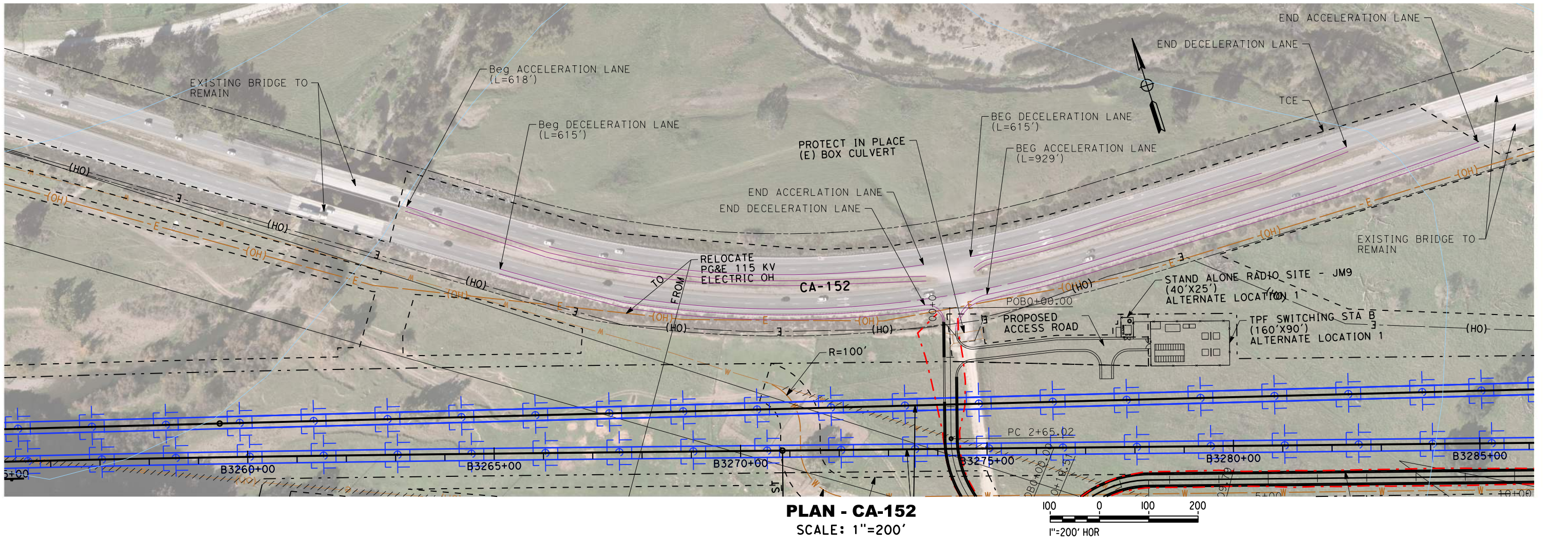
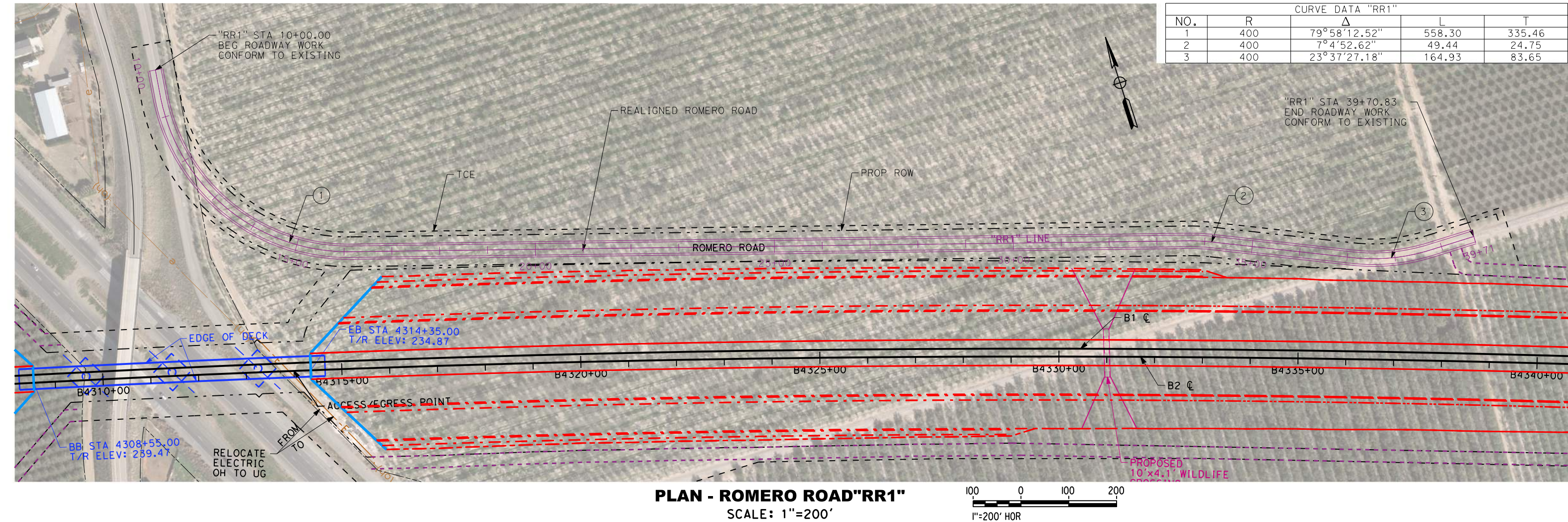
- NOTES:**
1. FOR MAINTENANCE OF WAY FACILITIES DETAILS, SEE DRAWING NO. MY-B0906
 2. FOR BLOOMFIELD AVENUE ROADWAY GRADE SEPARATION ALIGNMENT DETAILS, SEE DRAWING NO. CV-T0907

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 119 OF 218**

PLAN
SCALE: 1"=200'

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MORGAN HILL AND GILROY VIADUCT/AT-GRADE TO DOWNTOWN GILROY SOAP LAKE FLOOD PLAIN DETAIL	CONTRACT NO. HSR15-34 DRAWING NO. CV-G0901 SCALE: AS SHOWN SHEET NO.
---	--	--	---	---

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



SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 120 OF 218

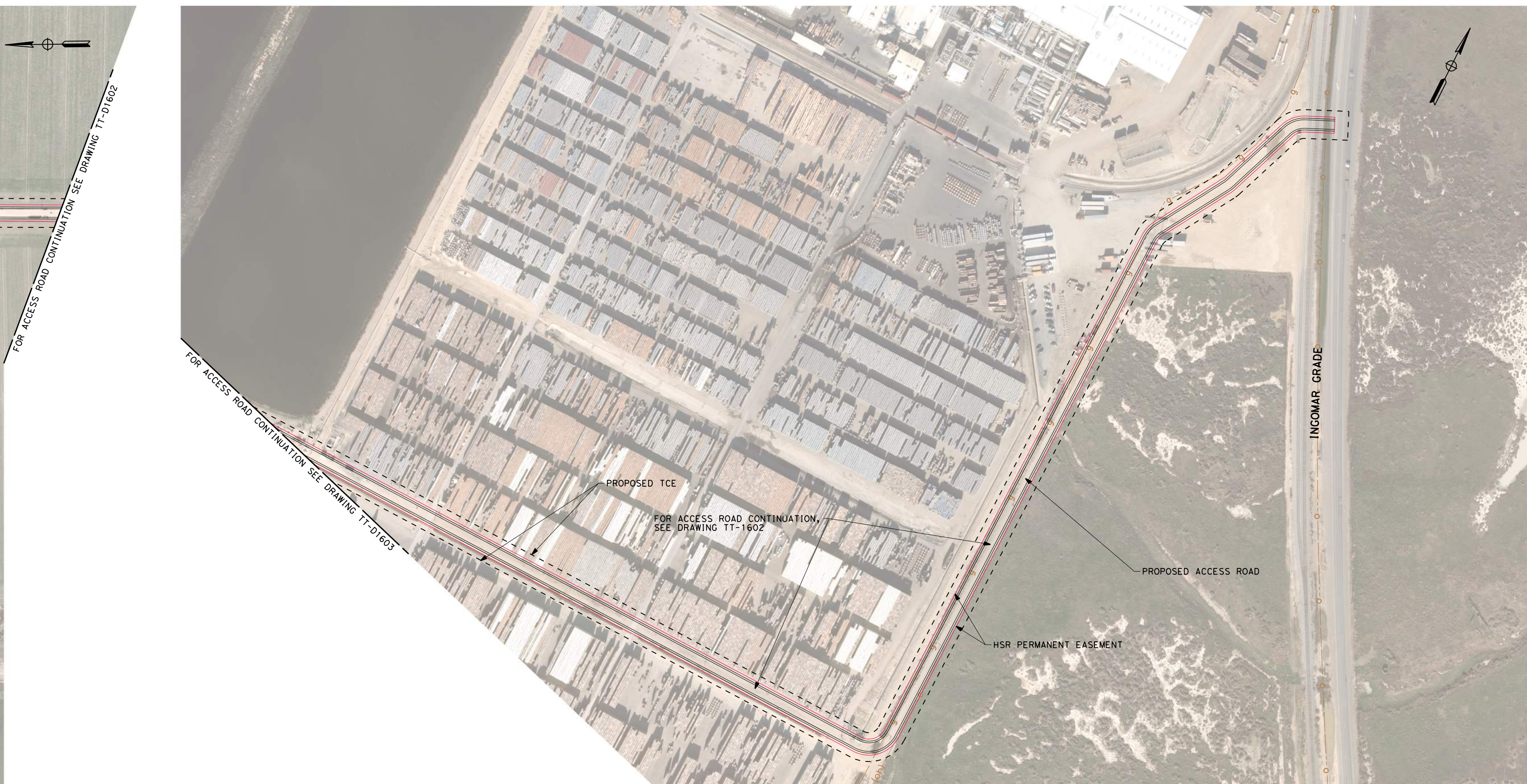
2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL CIVIL DETAILS	CONTRACT NO. HSR15-34 DRAWING NO. CV-S1401 SCALE AS SHOWN SHEET NO.
---	--	--	---	--

10/27/2021 08:53:32 AM c:\p21\2021\08\152\101.dwg 10/27/2021 08:53:32 AM c:\p21\2021\08\152\101.dwg 10/27/2021 08:53:32 AM c:\p21\2021\08\152\101.dwg

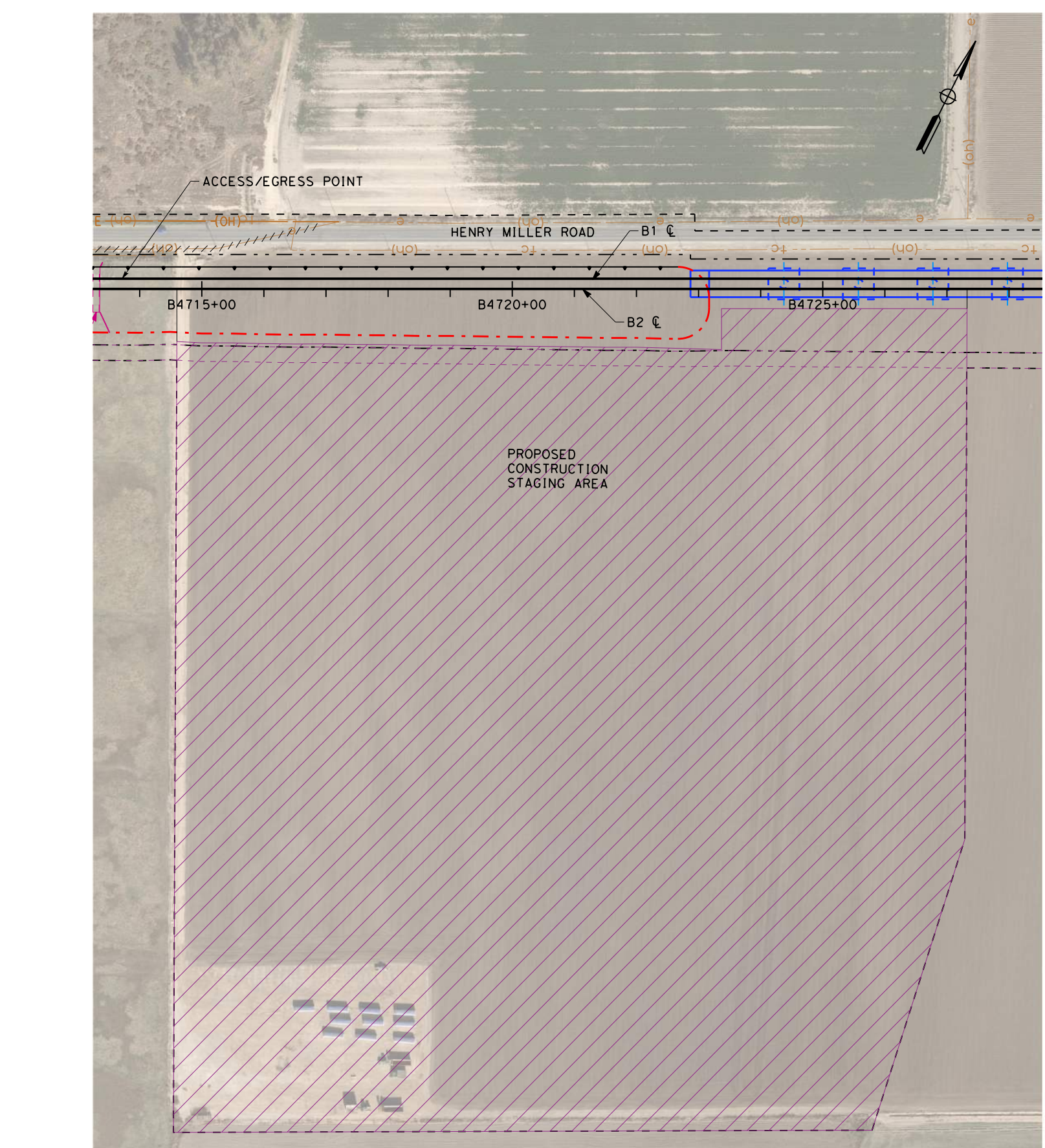
C:\Users\lshank\OneDrive\Documents\448037_Cover\Sheet\161616_01_S1601.dgn
11/27/2021 9:45:02 AM
c:\p02\2021\948542.dwg
d:\p02\2021\948542.dwg
11/27/2021 9:45:02 AM
c:\p02\2021\948542.dwg
11/27/2021 9:45:02 AM
c:\p02\2021\948542.dwg
11/27/2021 9:45:02 AM



PROPOSED ACCESS ROAD TO MONTEREY ROAD
SCALE: 1"=200'
1"=200' HOR



PROPOSED ACCESS ROAD TO INGOMAR GRADE
SCALE: 1"=200'
1"=200' HOR

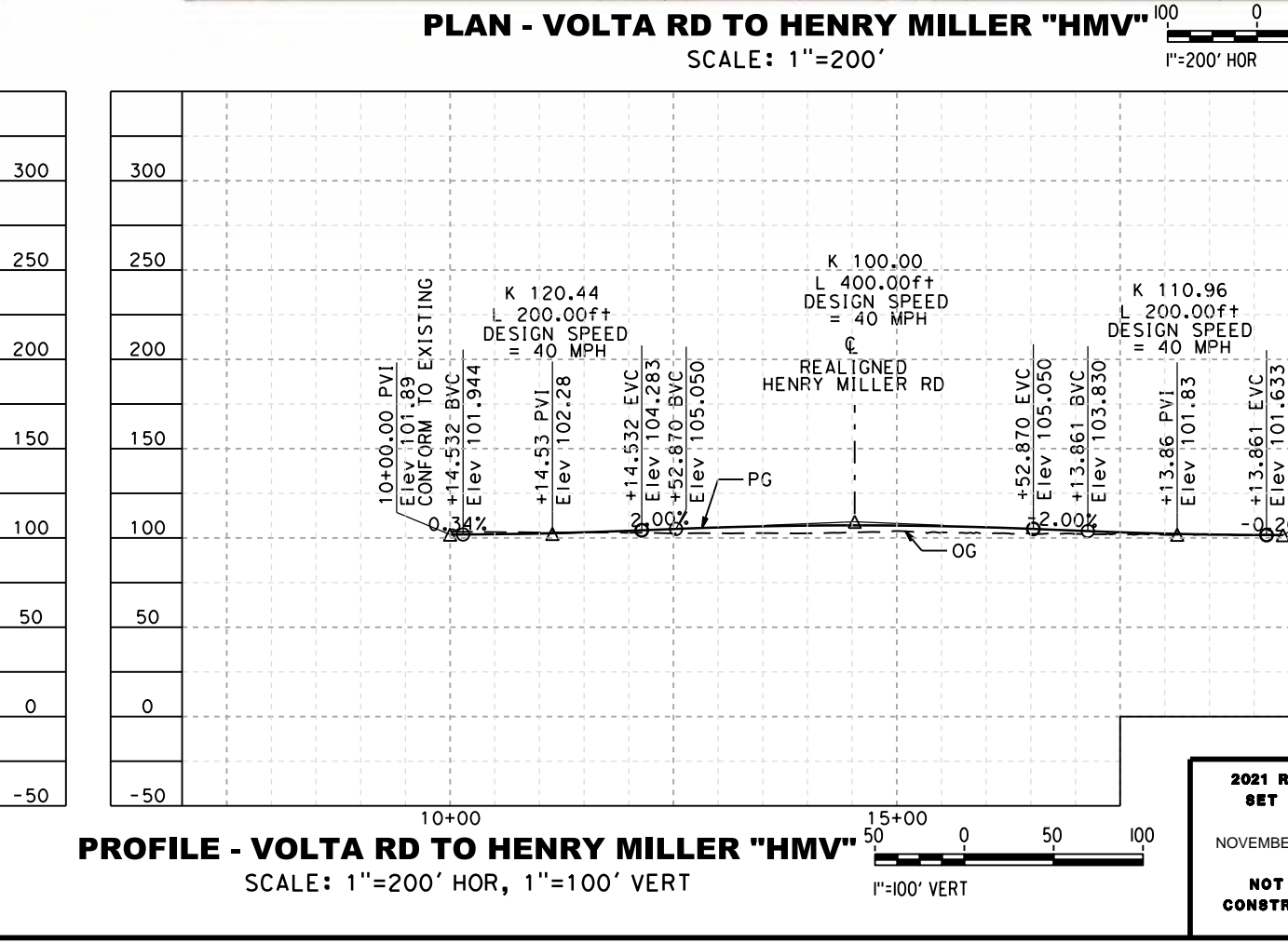
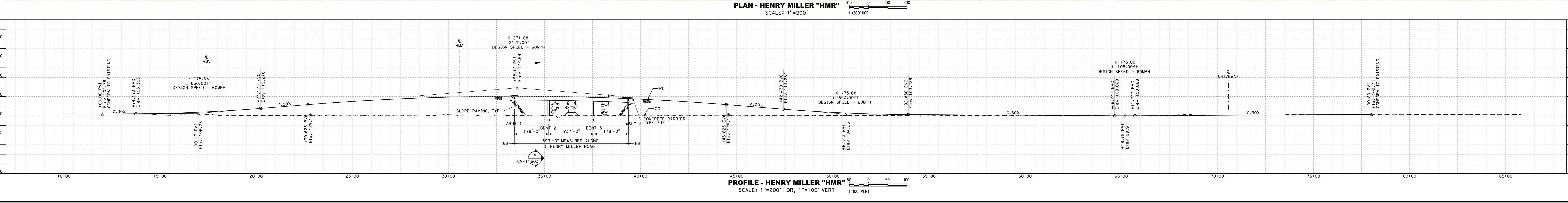
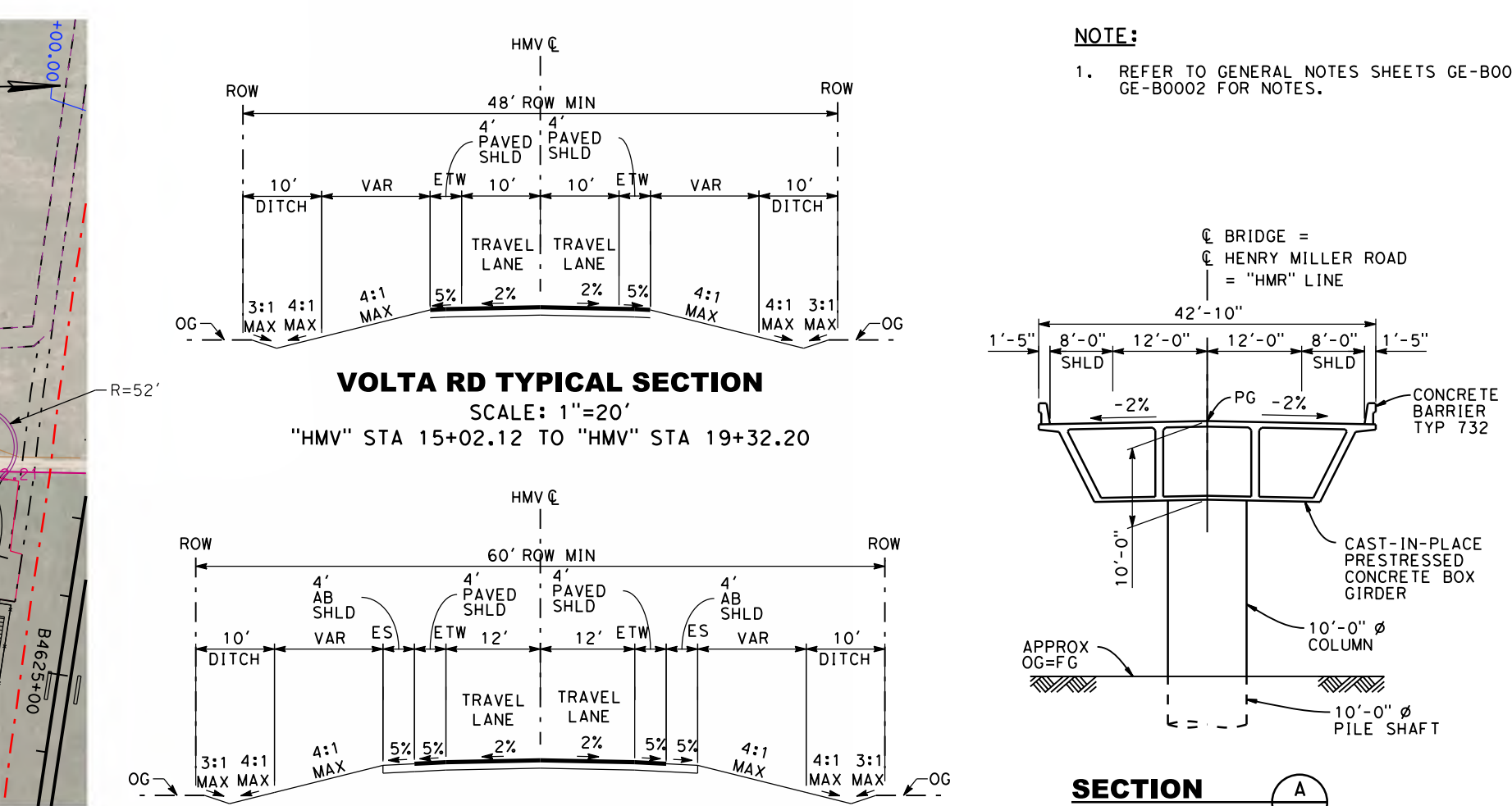
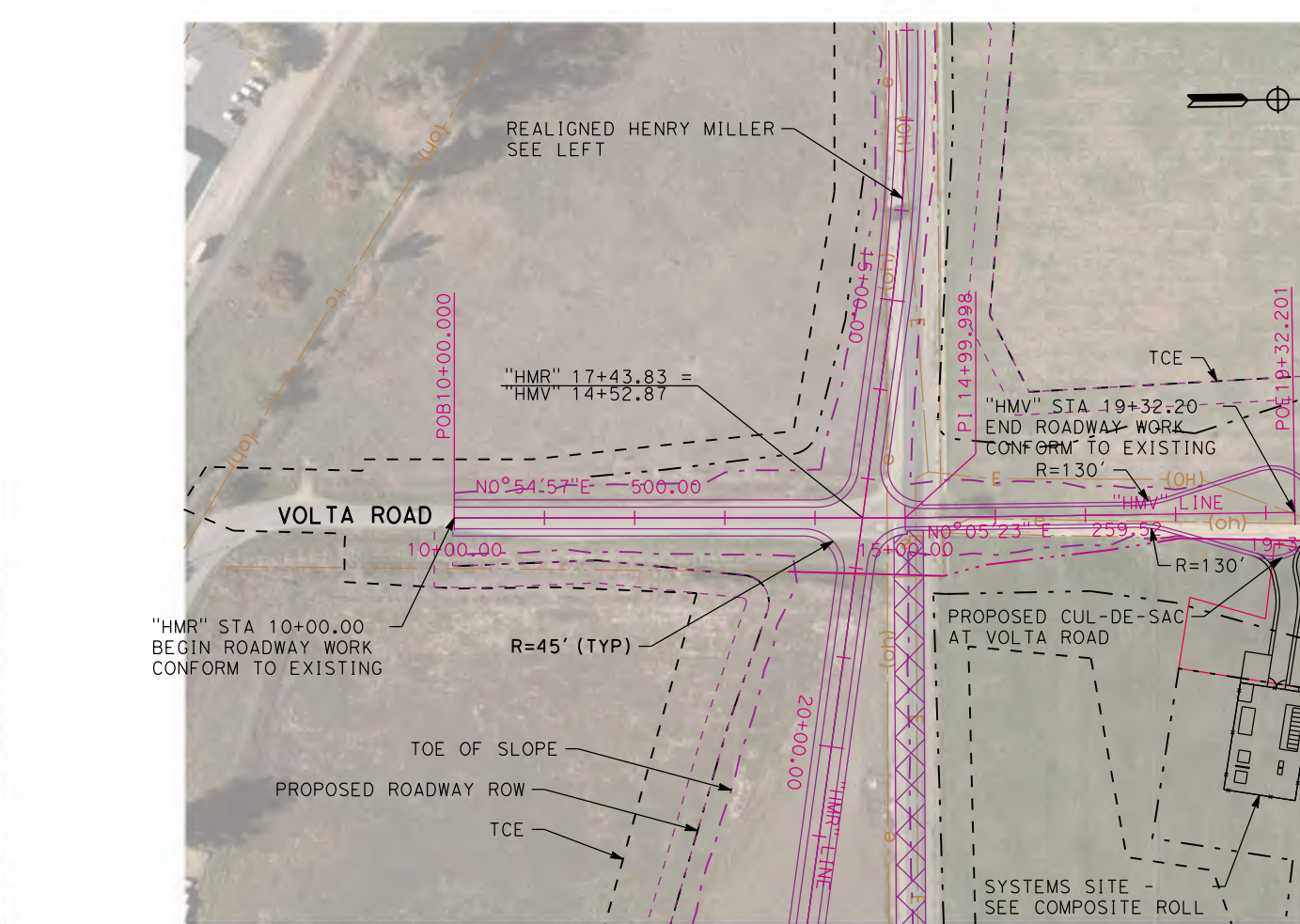
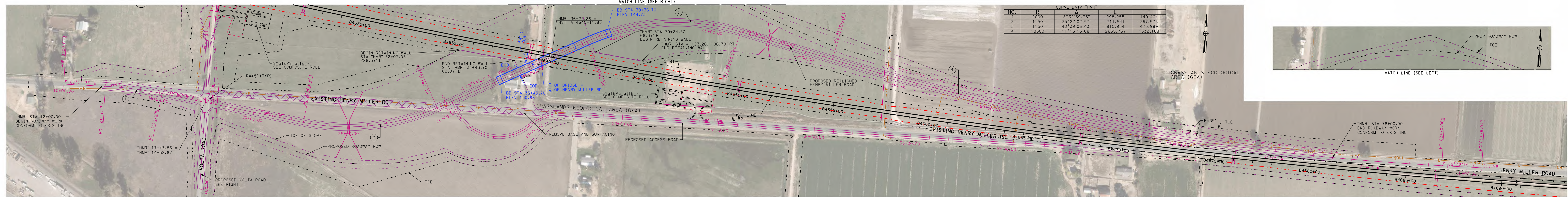


PROPOSED CONSTRUCTION STAGING AREA AT STA B4714+60 TO STA B4727+32
SCALE: 1"=200'
1"=200' HOR

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

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 121 OF 218**

2021 RECORD SET PEPD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED SAN JOAQUIN VALLEY HENRY MILLER ROAD CIVIL DETAILS	CONTRACT NO. HSR15-34
				DRAWING NO. CV-S1601
			SCALE AS SHOWN	SHEET NO.



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

SAN JOSE TO CVY EIR/S: VOLUME III ALTERNATIVE 1 BOOK 1C SHEET 122 OF 218

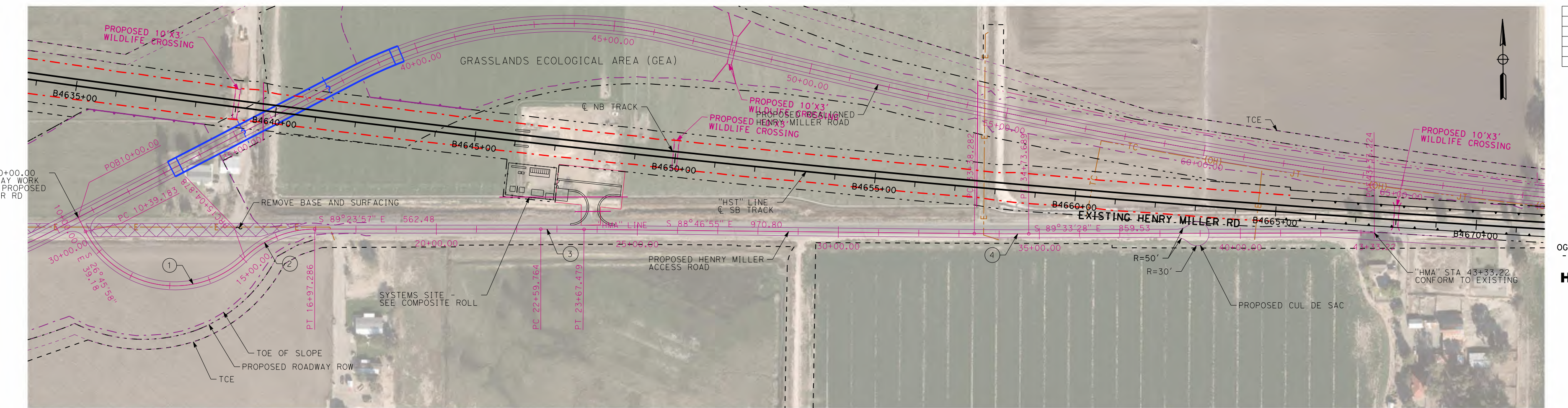
2021 RECORD SET PERM
NOVEMBER 30, 2021
NOT FOR CONSTRUCTION

HNTB
1111 Broadway
9th Floor
Oakland, CA 94607

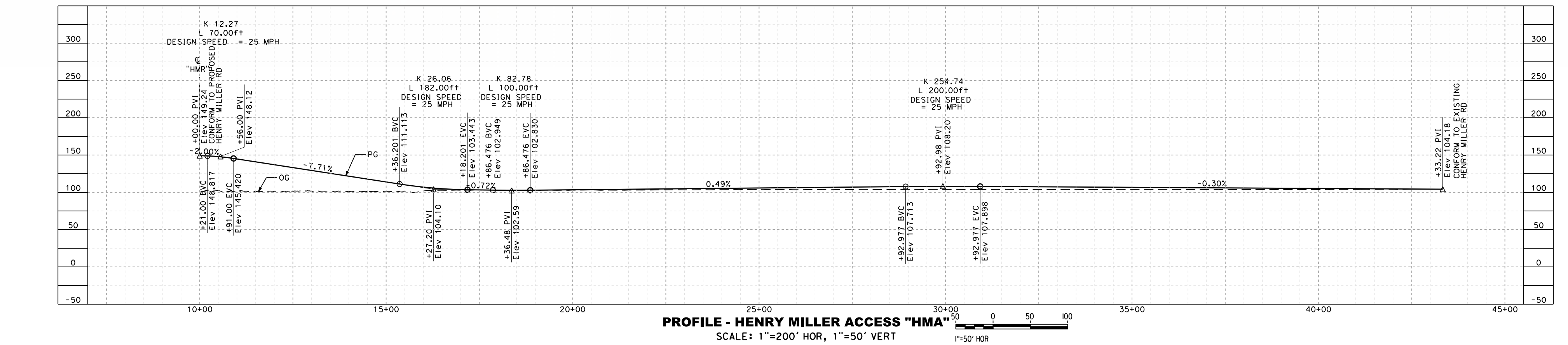
CALIFORNIA High-Speed Rail Authority

CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
SAN JOAQUIN VALLEY
HENRY MILLER ROAD
GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS
HENRY MILLER ROAD

CONTRACT NO. HSR15-34
DRAWING NO. CV-T1603
SCALE AS SHOWN
SHEET NO.

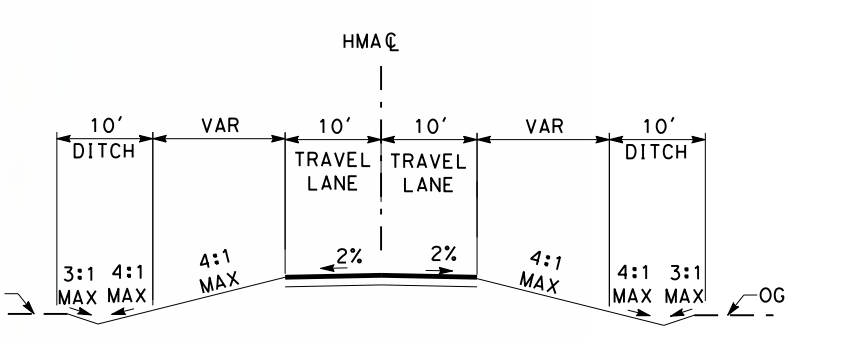


PLAN - HENRY MILLER ACCESS "HMA"
SCALE: 1"=200'



PROFILE - HENRY MILLER ACCESS "HMA"
SCALE: 1"=200' HOR, 1"=50' VERT

CURVE DATA "HMA"				
NO.	R	Δ	L	T
1	250	106°43'46.43"	465.696	336.193
2	250	44°05'47.68"	192.408	101.252
3	10000	0°37'01.77"	107.714	53.858
4	10000	0°46'32.98"	135.408	67.705

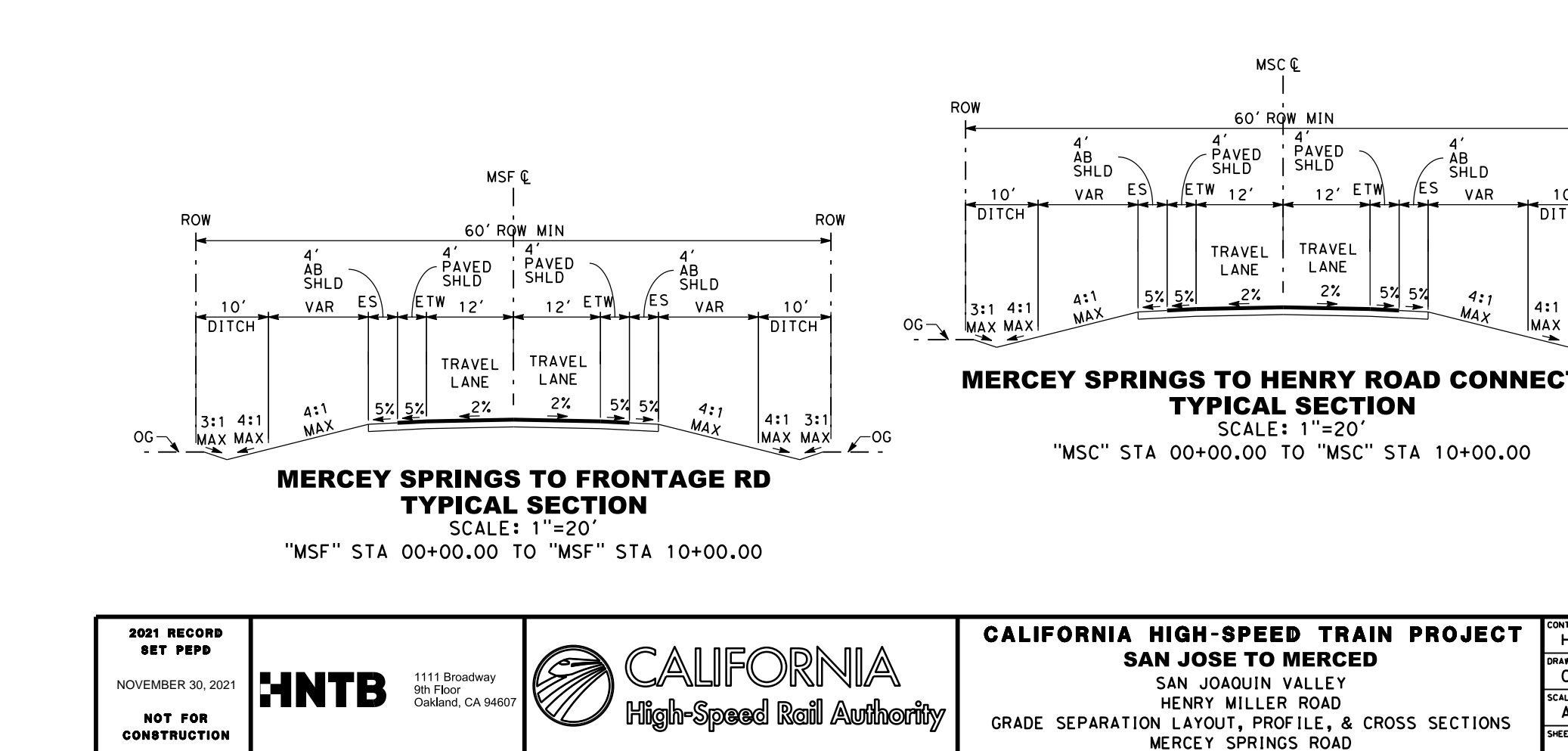
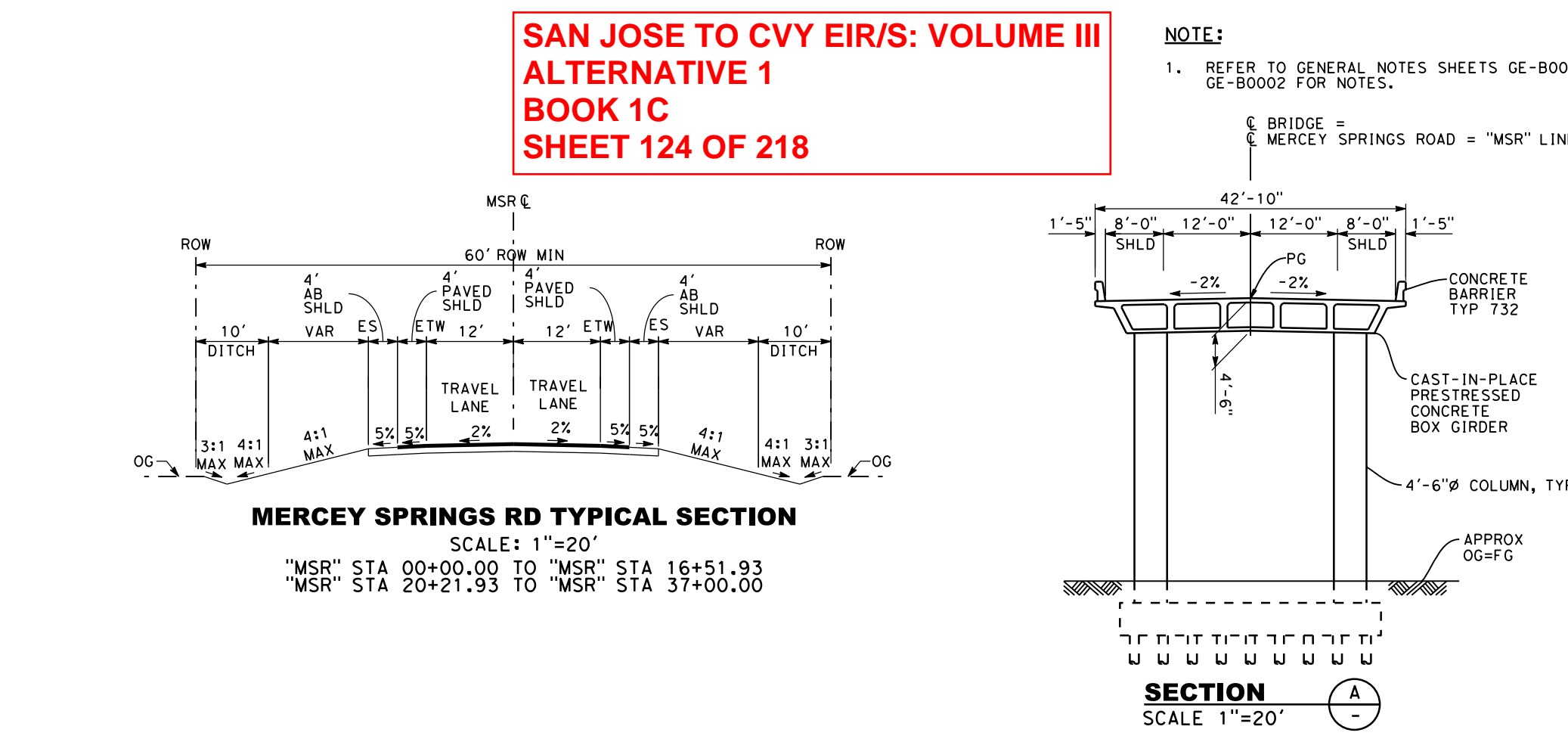
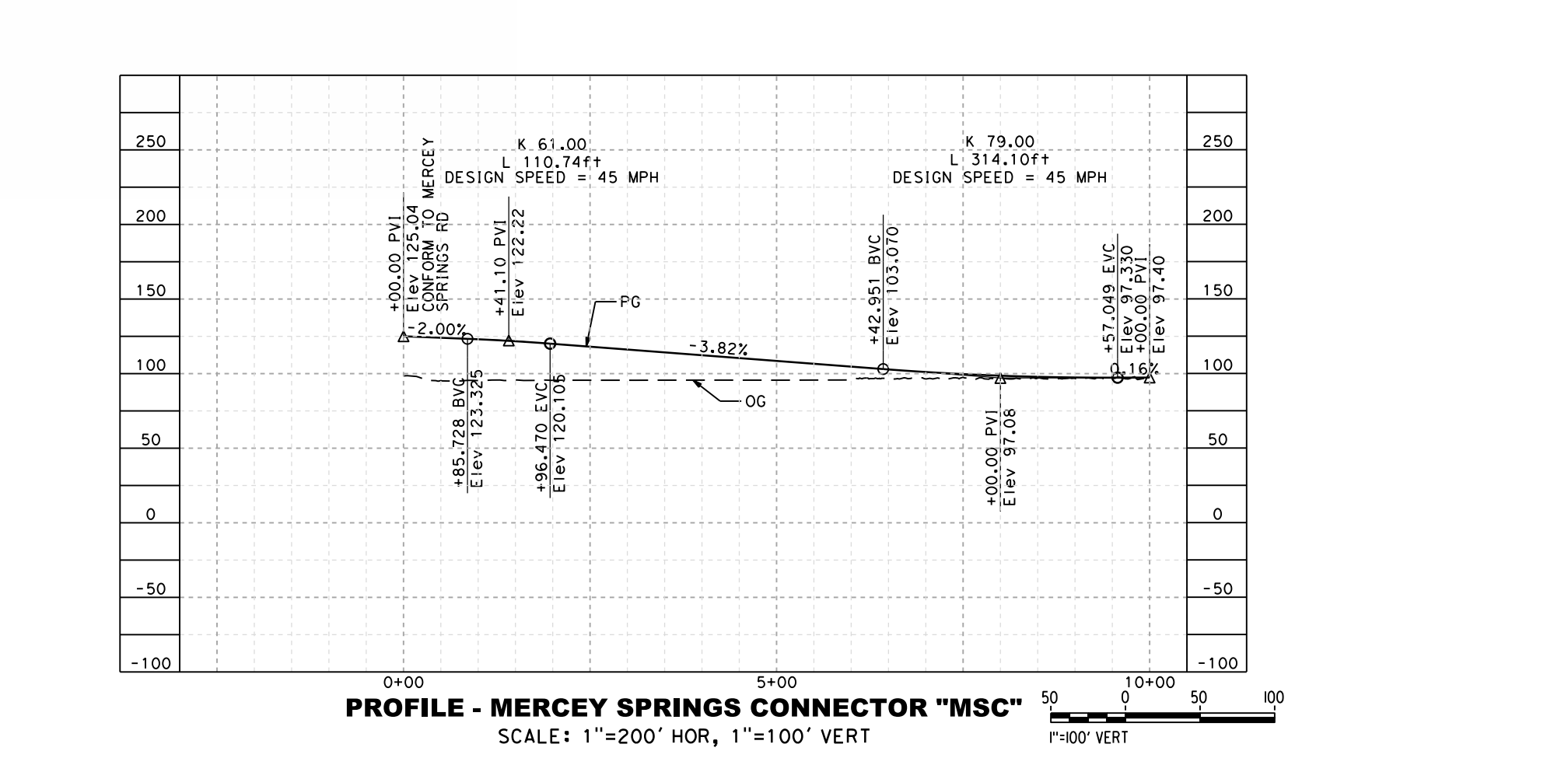
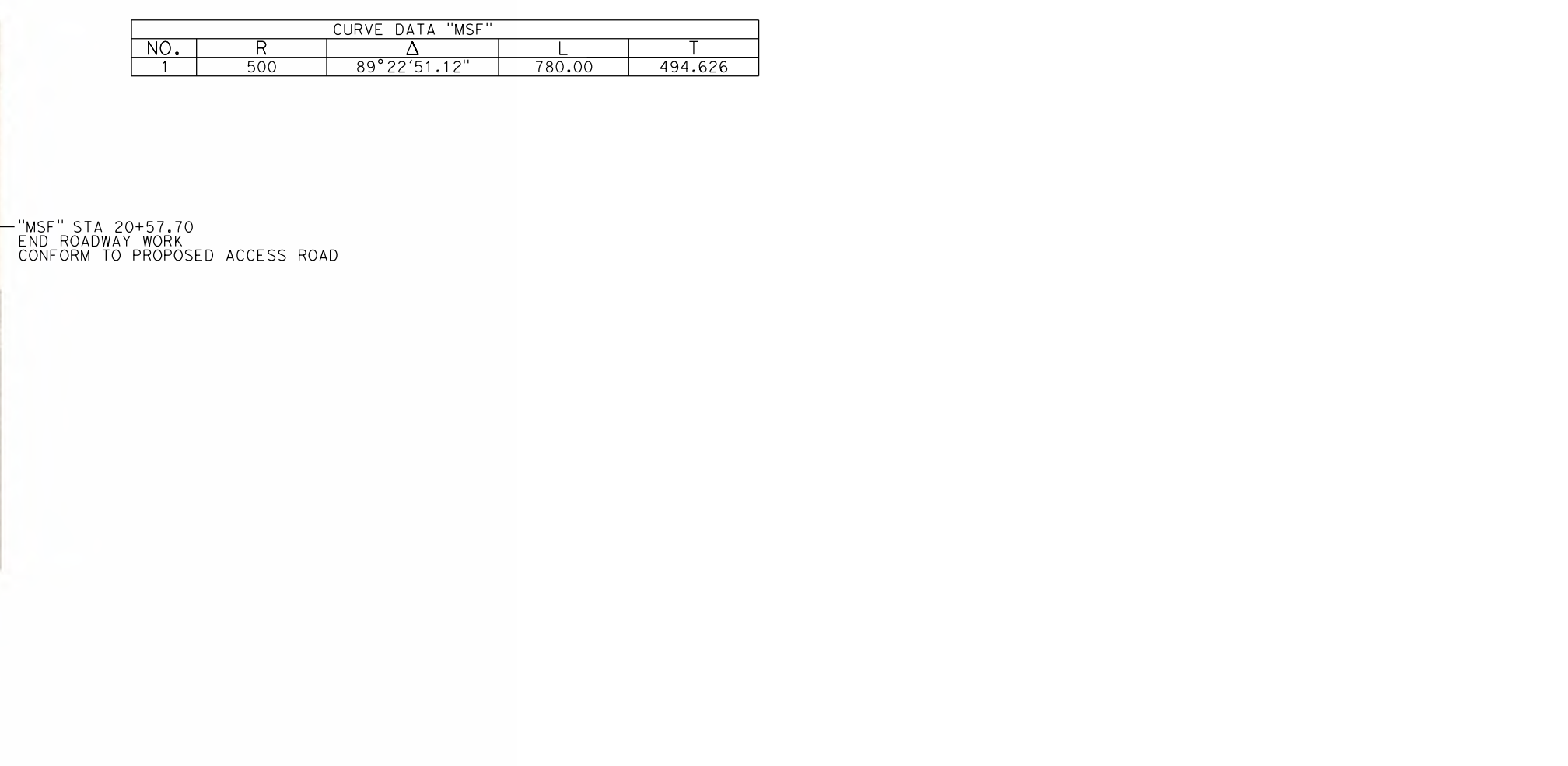
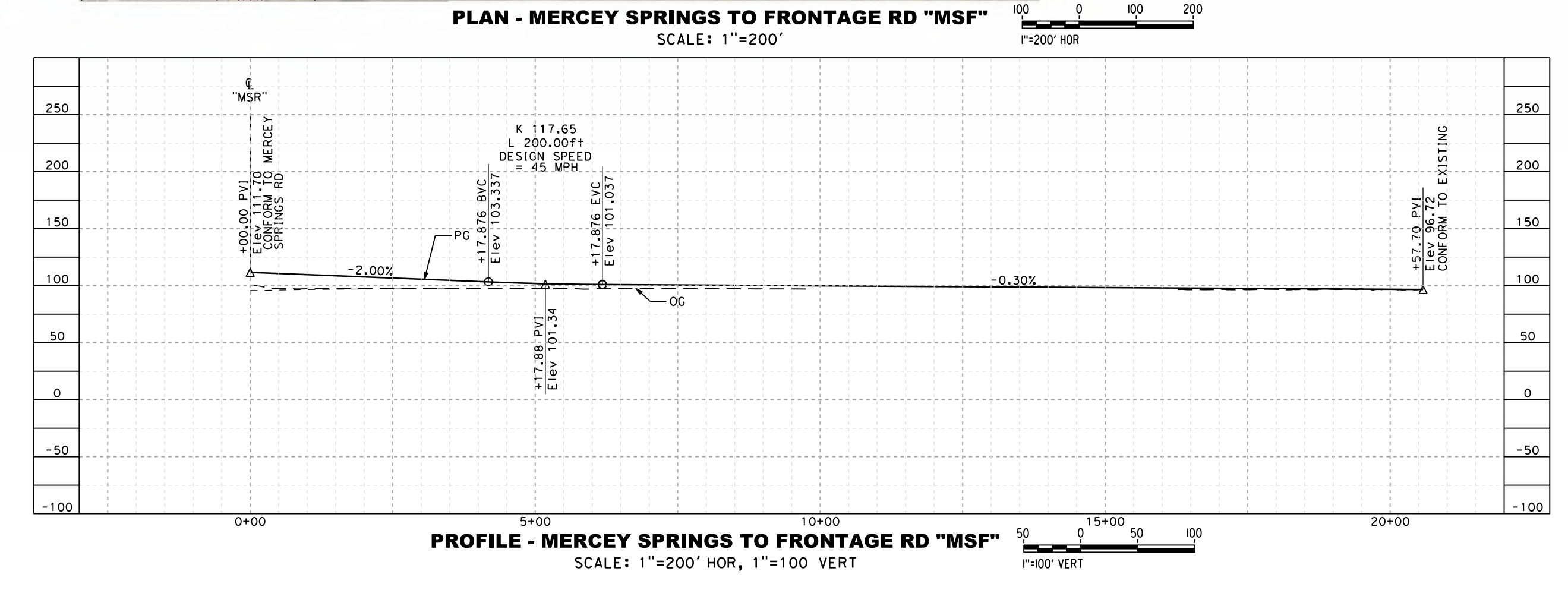
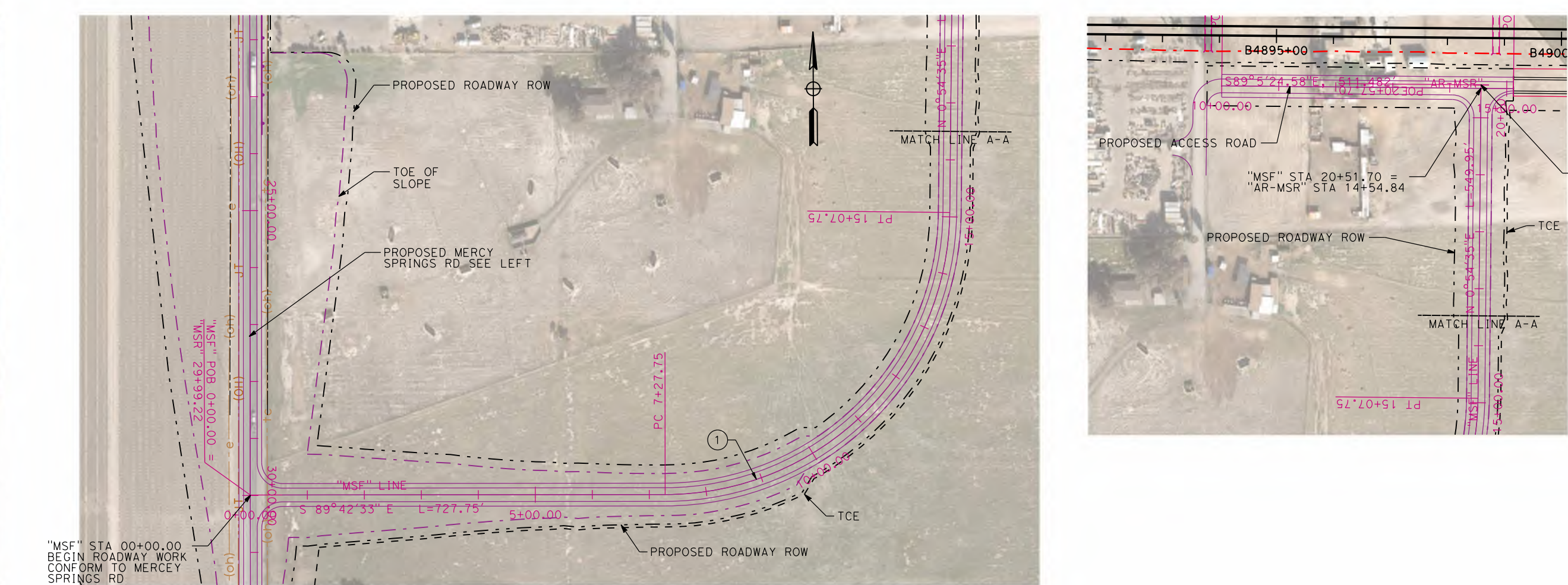
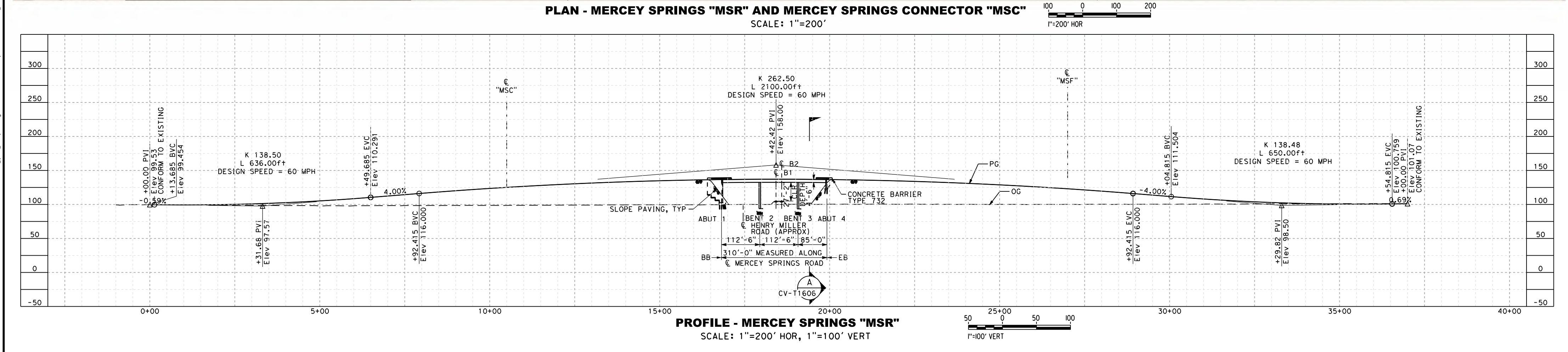
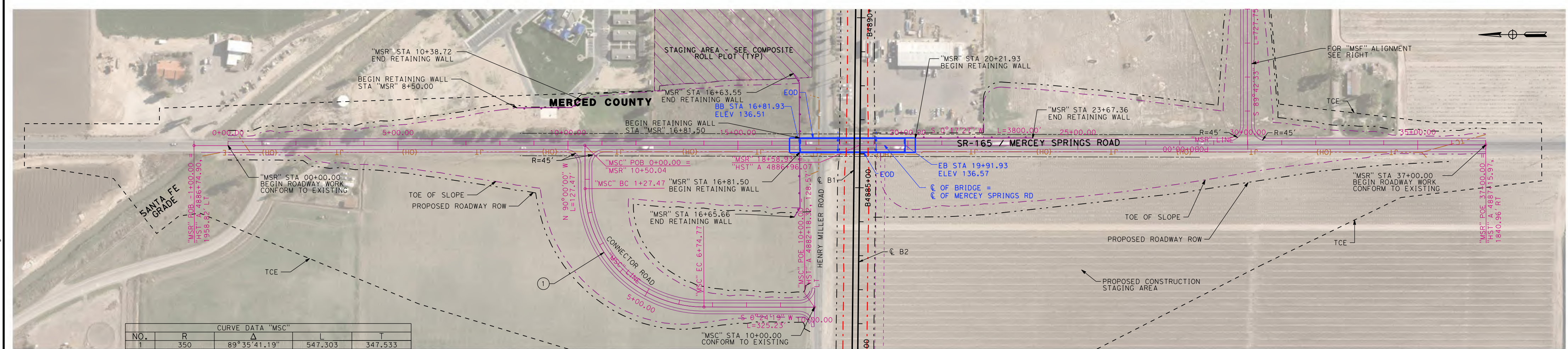


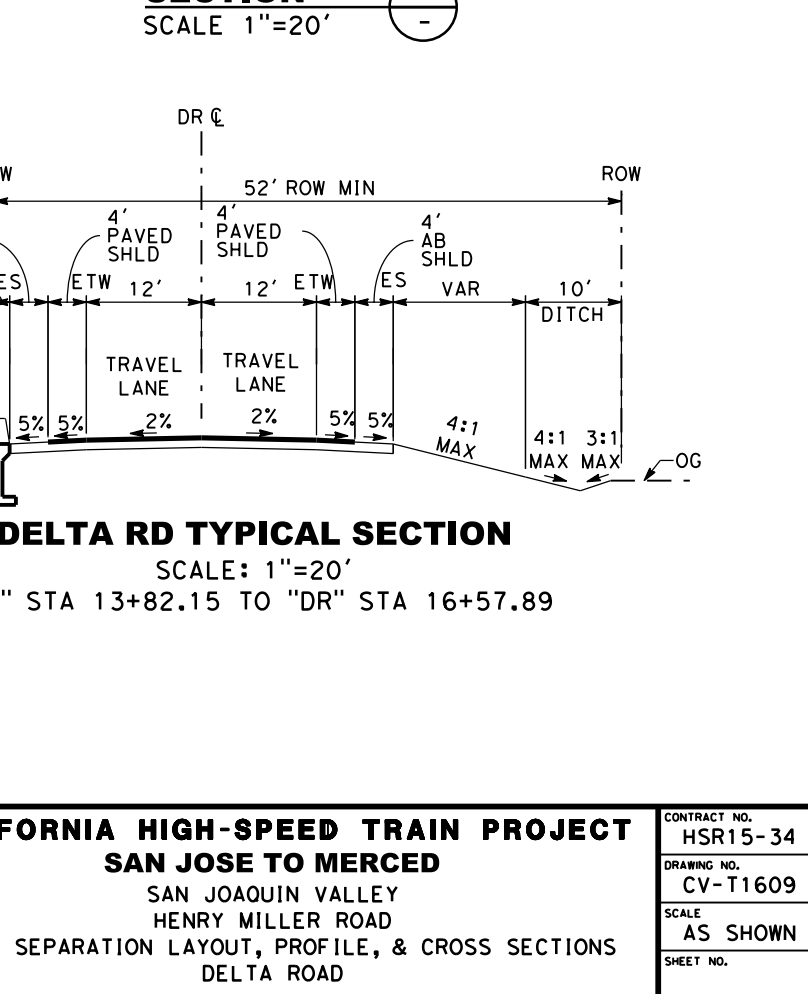
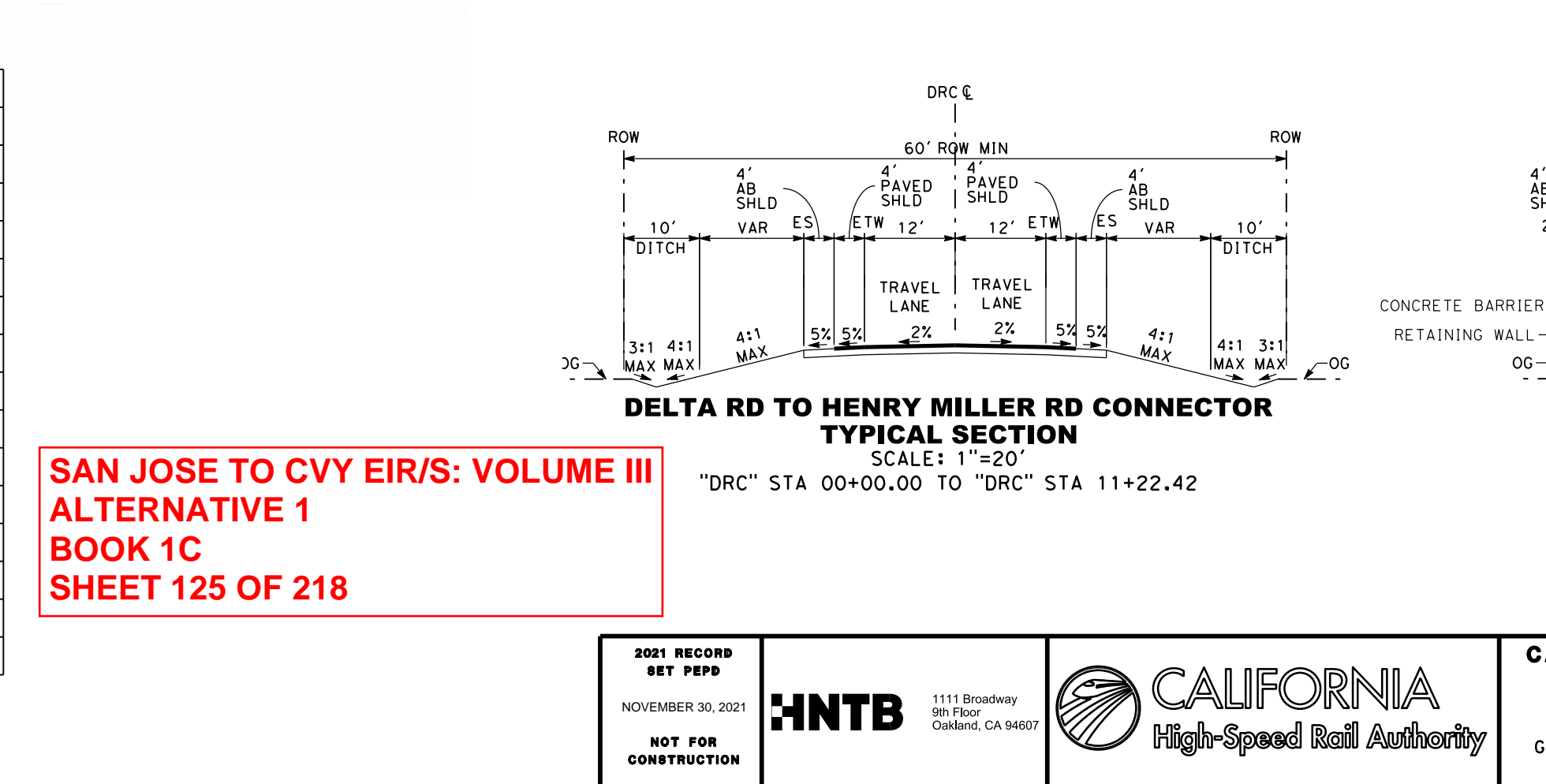
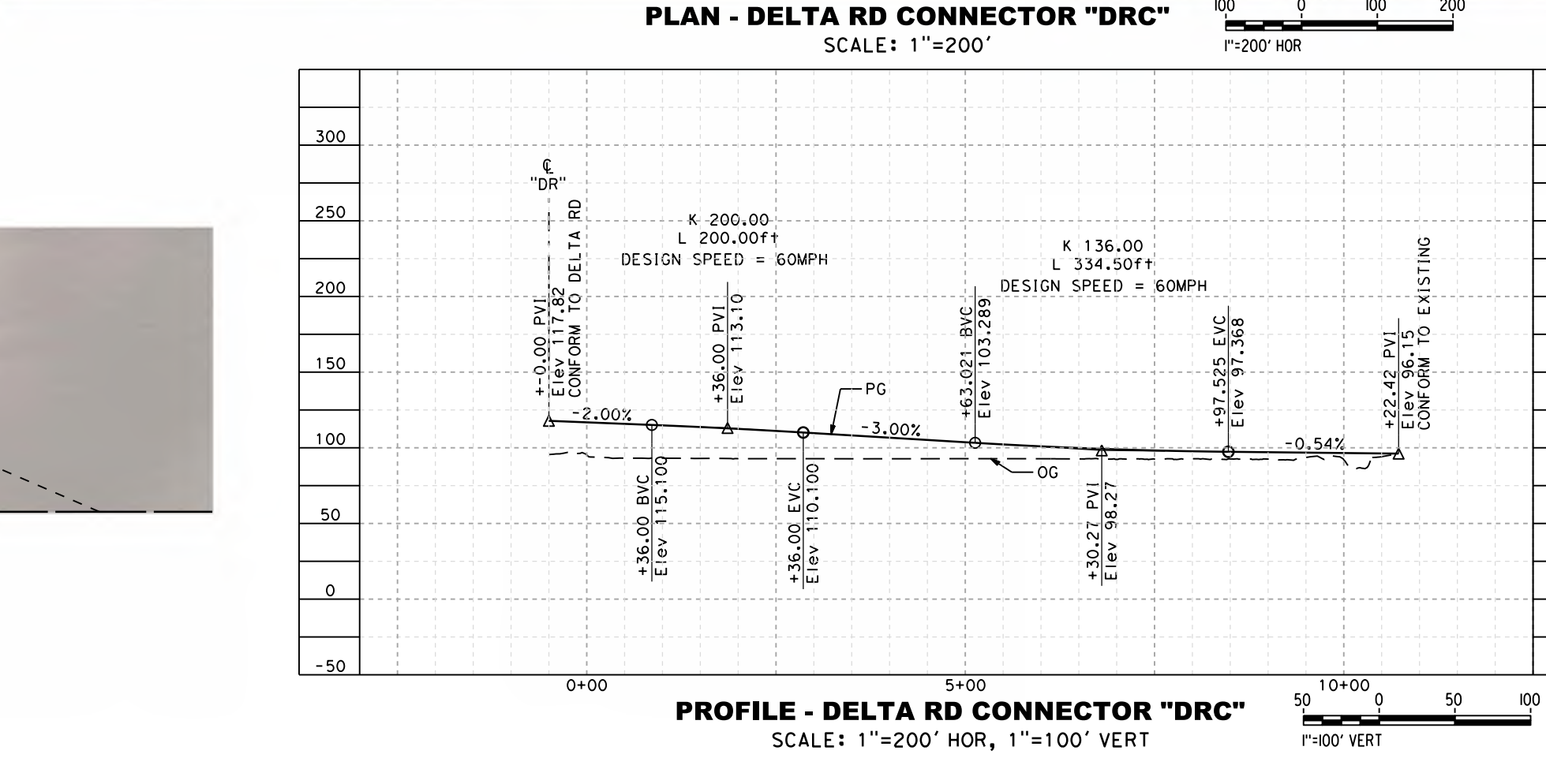
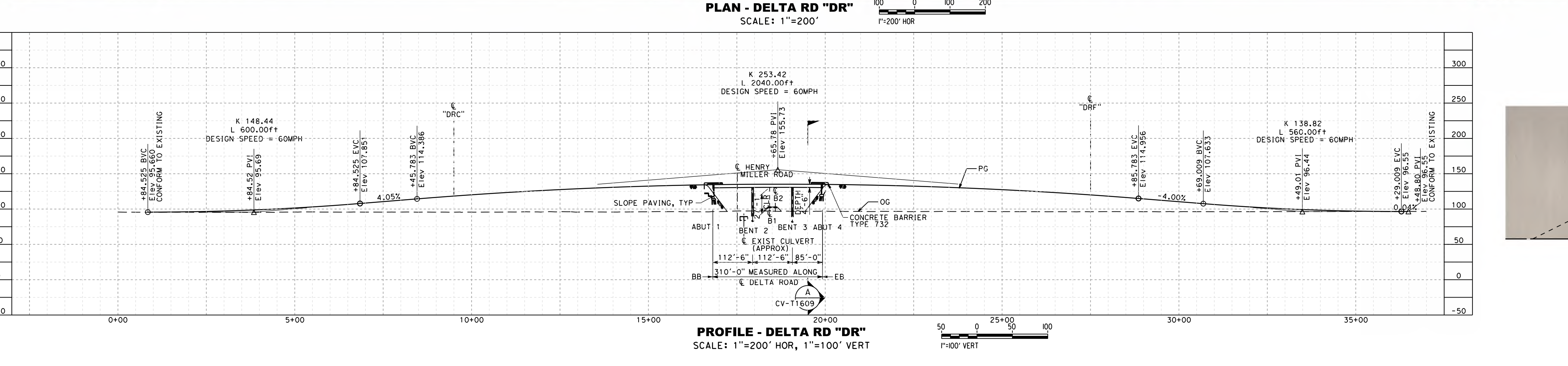
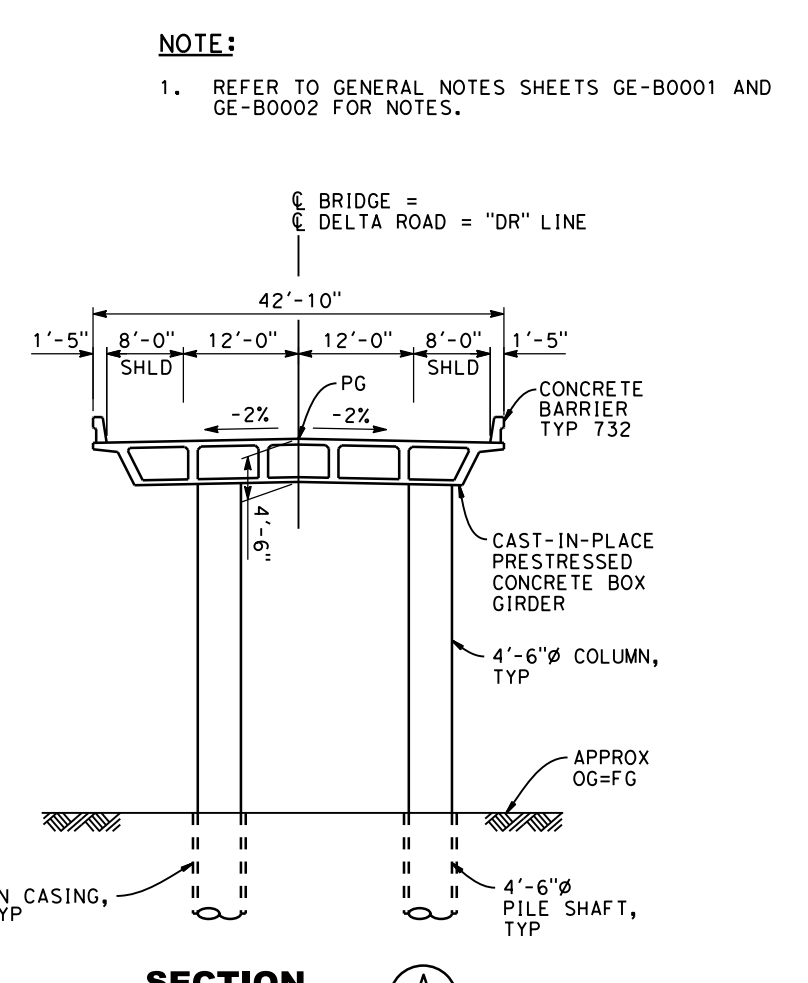
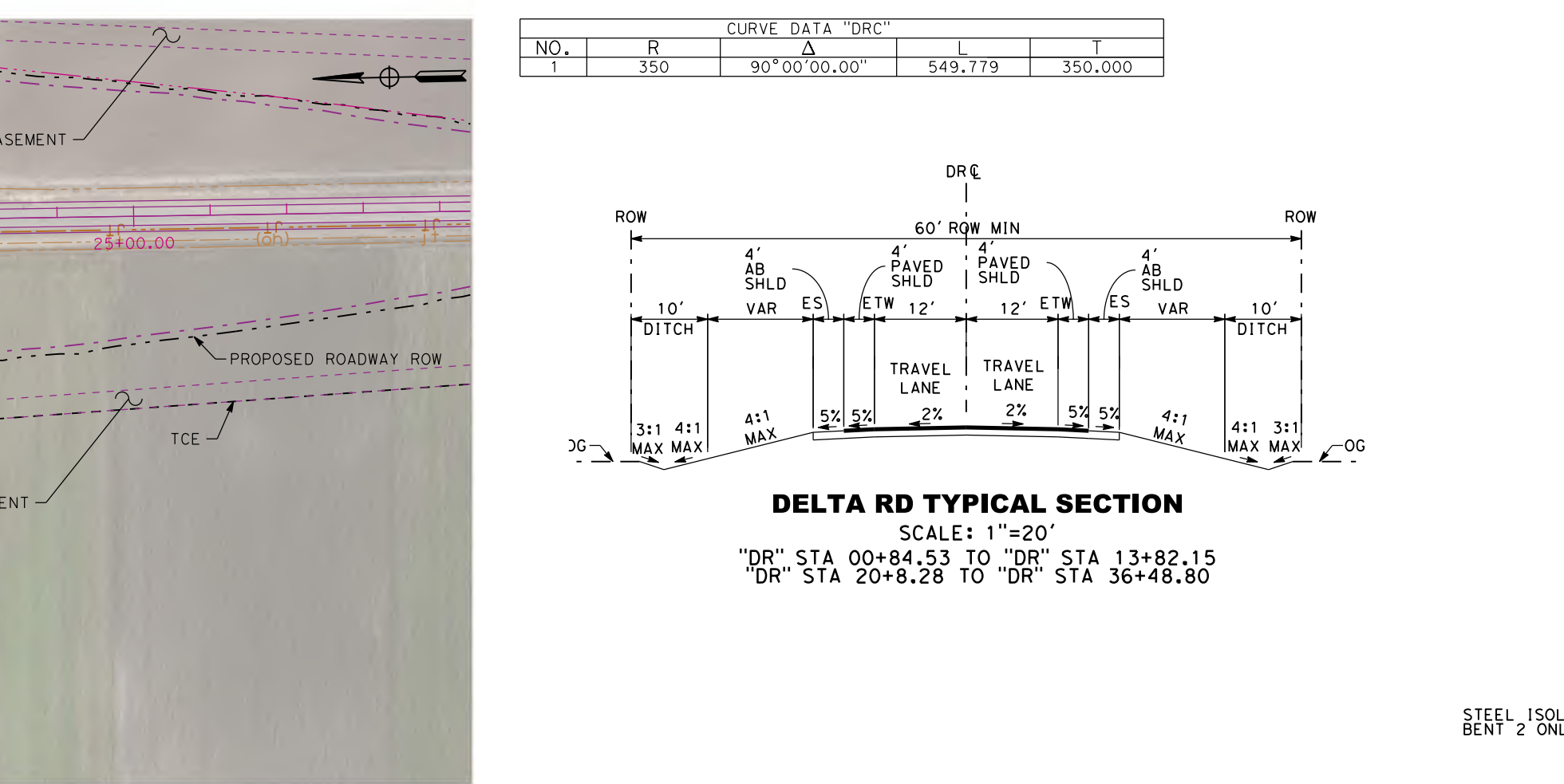
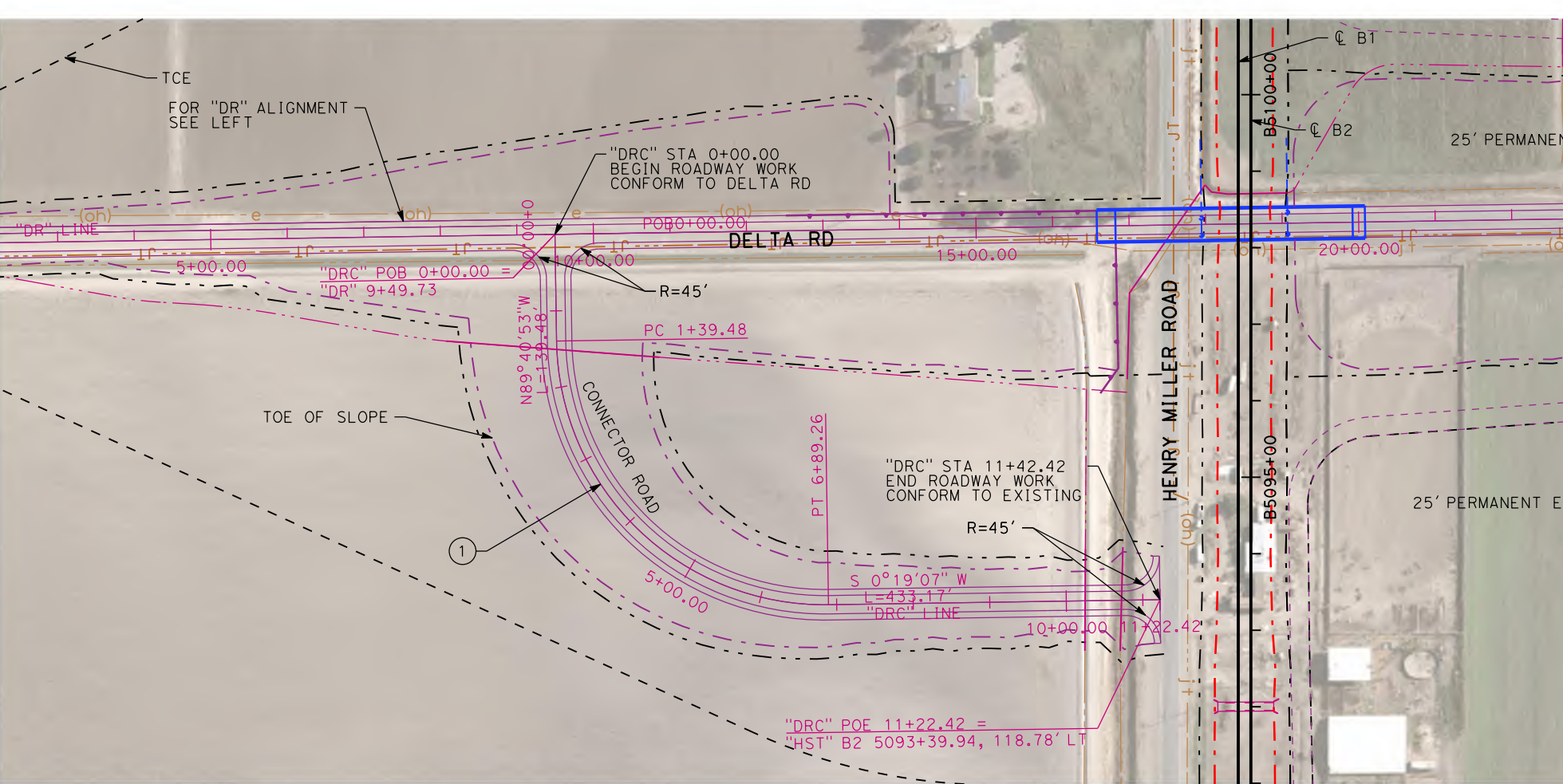
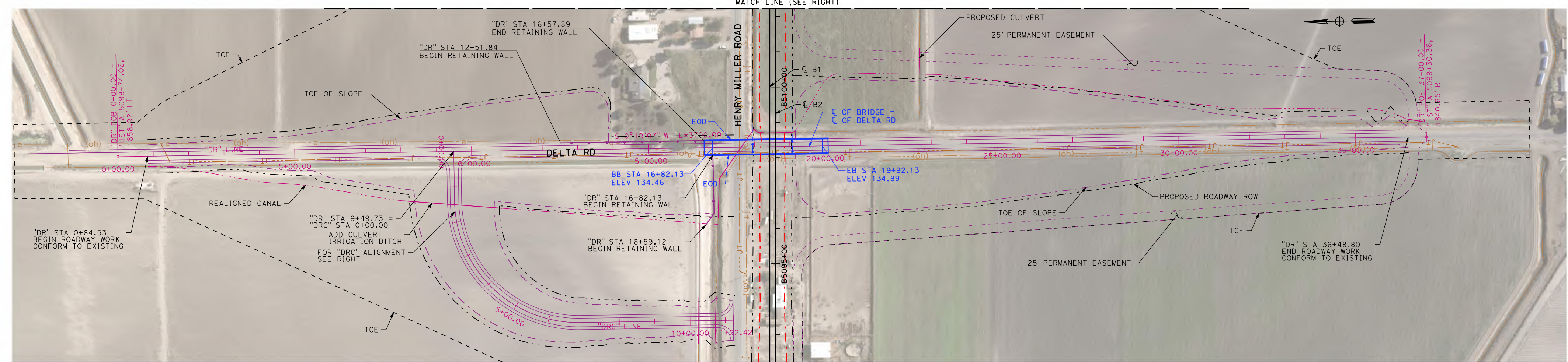
HENRY MILLER ACCESS RD TYPICAL SECTION
SCALE: 1"=20'
"HMA" STA 10+00.00 TO "HMA" STA 43+33.22

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

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 123 OF 218

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607	CALIFORNIA High-Speed Rail Authority	CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED SAN JOAQUIN VALLEY HENRY MILLER ROAD GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS HENRY MILLER ACCESS	CONTRACT NO. HSR15-34 DRAWING NO. CV-T1604 SCALE AS SHOWN SHEET NO.
---	--	--	--	--

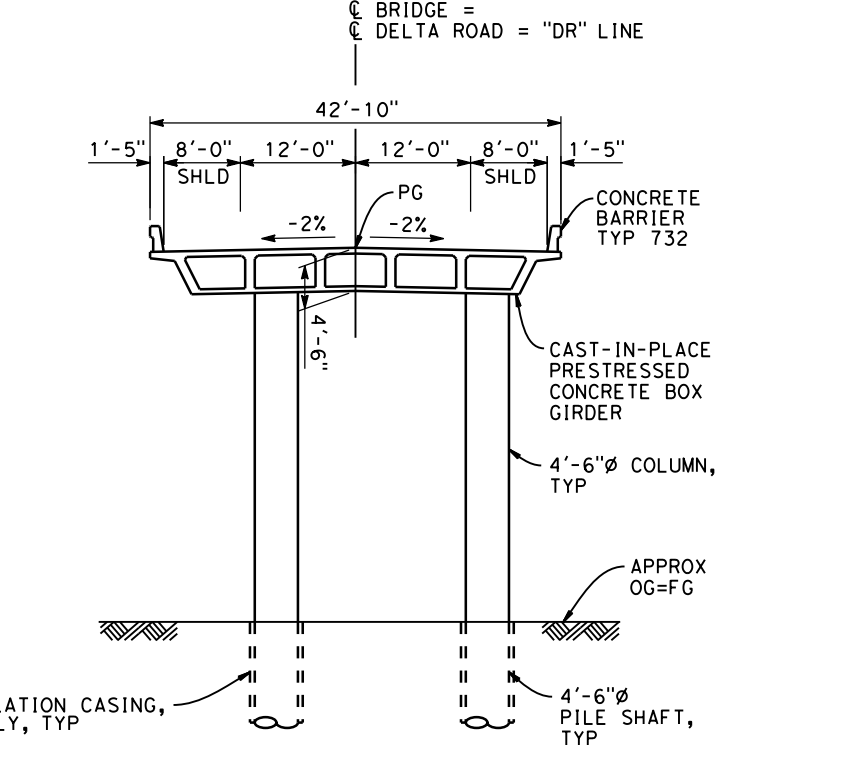
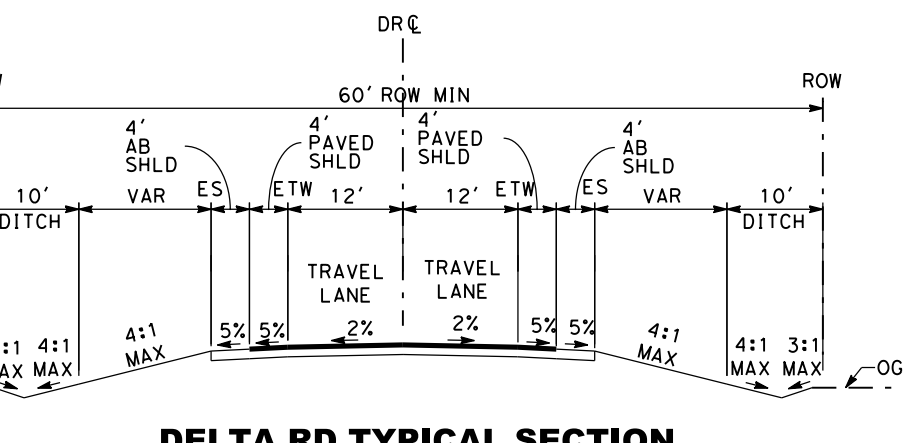




**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 125 OF 218**

CURVE DATA "DRC"				
NO.	R	A	L	PC
1	350	90°00'00.00"	549.779	350.000

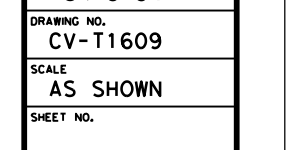
NOTE:
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.



2021 RECORD SET PERM
NOVEMBER 30, 2021
NOT FOR CONSTRUCTION



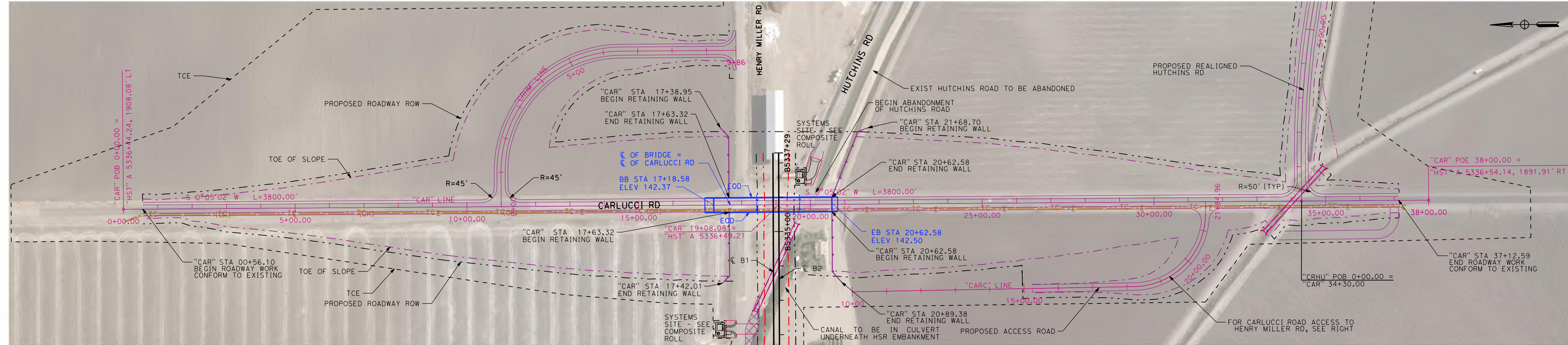
1111 Broadway
9th Floor
Oakland, CA 94607



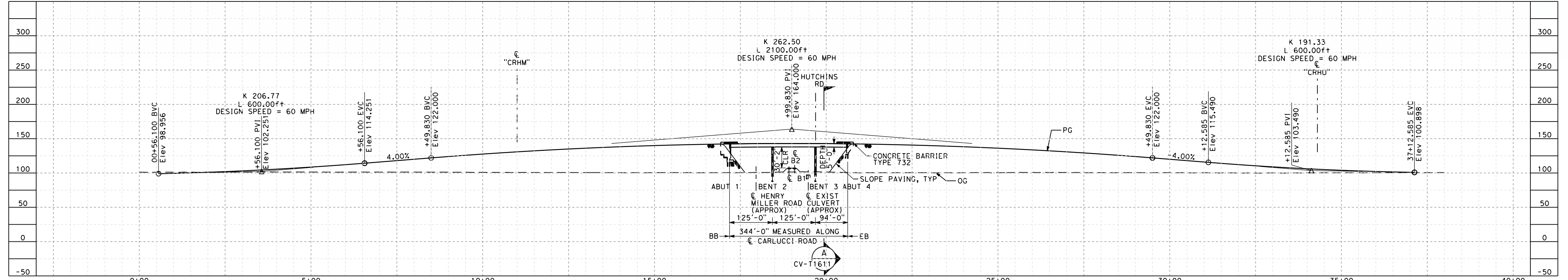
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED**
SAN JOAQUIN VALLEY
HENRY MILLER ROAD
GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS
DELTA ROAD

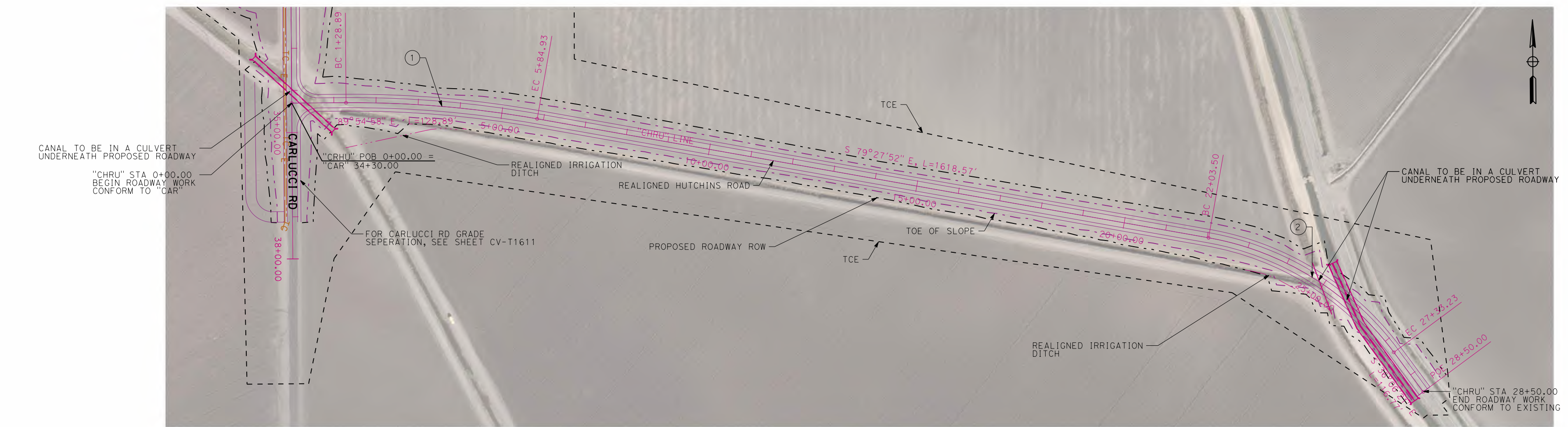
CONTRACT NO. HSR15-34
DRAWING NO. CV-T1609
SCALE AS SHOWN
SHEET NO.

11/17/2023 09:54:54 PM C:\p02\11511\11511.dgn
 c:\p02\11511\11511.dgn
 11/17/2023 09:54:54 PM C:\p02\11511\11511.dgn
 11/17/2023 09:54:54 PM C:\p02\11511\11511.dgn



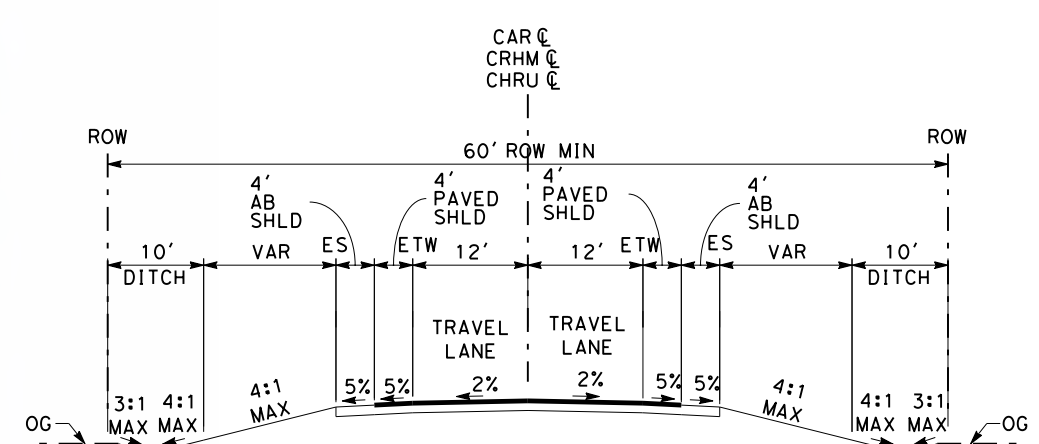
PLAN - CARLUCCI RD "CAR"
SCALE: 1"=200'
1"=200' HOR





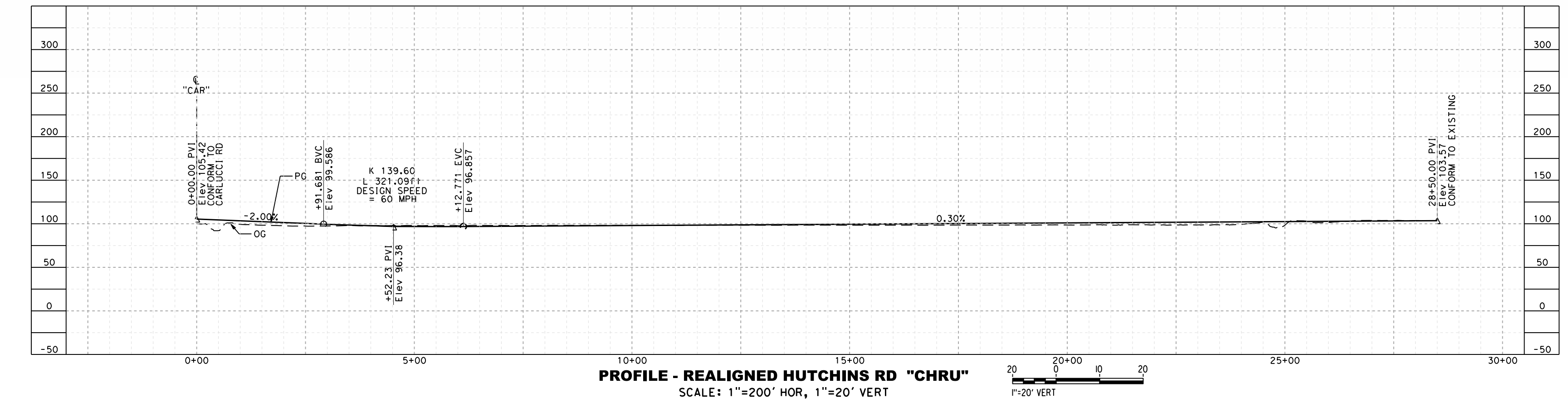
PLAN - REALIGNED HUTCHINS ROAD "CHRU"
SCALE: 1"=200'

CURVE DATA "CHRU"				
NO.	R	A	L	T
1	2500	10°27'05.95"	456.039	228.654
2	700	43°21'31.47"	529.727	278.272



CARLUCCI RD/ HENRY MILLER TO CARLUCCI RD/ REALIGNED HUTCHINS RD TYPICAL SECTION
SCALE: 1"=20'

"CAR" STA 00+56.10 TO "CAR" STA 17+18.58
 "CRHM" STA 20+62.58 TO "CRHM" STA 37+12.59
 "CHRU" STA 00+00.00 TO "CHRU" STA 28+00.00



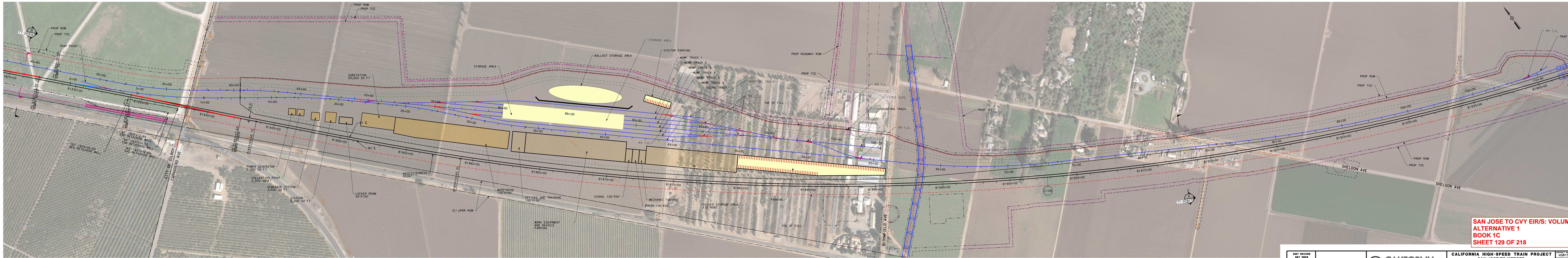
PROFILE - REALIGNED HUTCHINS RD "CHRU"
SCALE: 1"=200' HOR, 1"=20' VERT

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

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 128 OF 218

2021 RECORD SET P&P NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED SAN JOAQUIN VALLEY HENRY MILLER ROAD GRADE SEPARATION LAYOUT, PROFILE, & CROSS SECTIONS HUTCHINS ROAD	CONTRACT NO. HSR15-34 DRAWING NO. CV-T1612 SCALE AS SHOWN SHEET NO.
--	--	--	---	--

11/30/2021 10:56:16 AM C:\projects\hsr\civil\work\1129\1129.dwg User: jay.d...
11/30/2021 10:56:16 AM C:\projects\hsr\civil\work\1129\1129.dwg User: jay.d...
11/30/2021 10:56:16 AM C:\projects\hsr\civil\work\1129\1129.dwg User: jay.d...



SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 129 OF 218

PLAN
SCALE: 1"=200'



2021 RECORD SET PERP
NOVEMBER 30, 2021
NOT FOR CONSTRUCTION



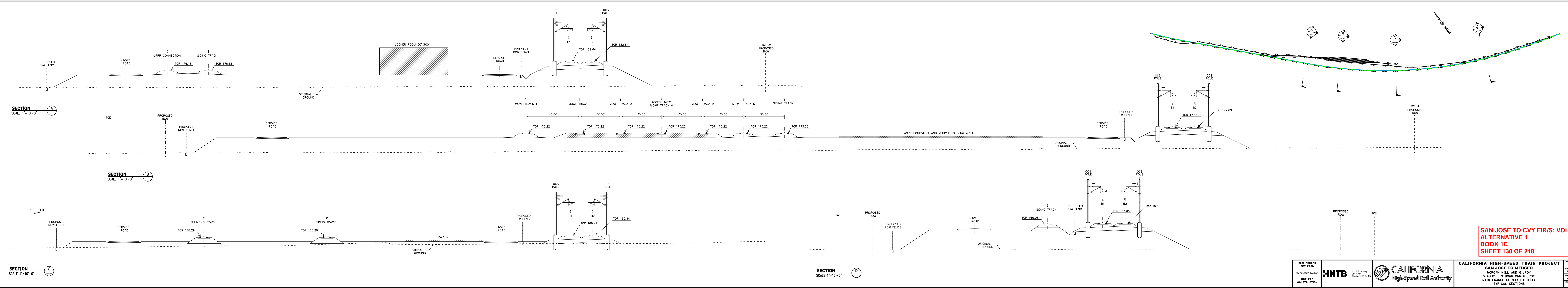
1111 Broadway
9th Floor
Oakland, CA 94607



CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
MORGAN HILL AND GILROY VIADUCT TO DOWNTOWN GILROY
MAINTENANCE OF WAY FACILITY
DETAIL PLAN

CONTRACT NO. HSR15-34
DRAWING NO. MY-B0906
SCALE: AS SHOWN
SHEET NO.

10/29/2021 10:45:14 AM
 C:\Users\jshank\OneDrive\Documents\445037\corner\sheet\130\130.dwg
 130.dwg
 130.dwg
 130.dwg



SECTION A
SCALE 1"=10'-0"

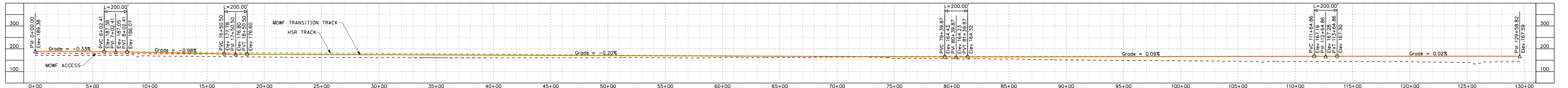
SECTION B
SCALE 1"=10'-0"

SECTION C
SCALE 1"=10'-0"

SECTION D
SCALE 1"=10'-0"

2021 RECORD SET PEPD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED VIADUCT TO DOWNTOWN GILROY MAINTENANCE OF WAY FACILITY TYPICAL SECTIONS	CONTRACT NO. HSR15-34 DRAWING NO. M7-B0907 SCALE AS SHOWN SHEET NO.
---	--	--	--	--

SAN JOSE TO CVY EIR/S: VOLUME III
 ALTERNATIVE 1
 BOOK 1C
 SHEET 130 OF 218



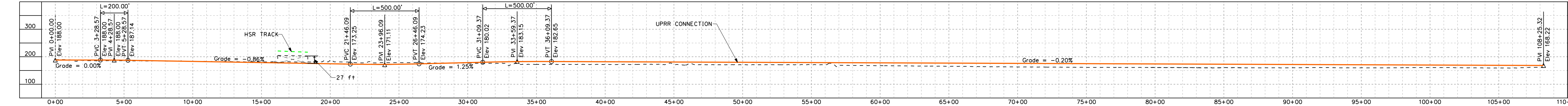
MOWF TRANSITION TRACK PROFILE

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Tangent	POB	0+00.00	1816309.47	6256326.95						
Tangent	TS	3+73.51	1816045.46	6256591.16						
Clothoid	TS	3+73.51	1816045.46	6256591.16						
Clothoid	SPI	4+63.51	1815981.84	6256654.82	135		0°58'01"	Left	67.5	0.19
Clothoid	SC	5+08.51	1815950.57	6256687.19						
Arc	SC	5+08.51	1815950.57	6256687.19						
Arc	PI	7+52.28	1815781.2	6256862.51	4000	486.93	6°58'29"	Left		
Arc	CC	1818827.36	6259466.41							
Arc	CS	9+95.44	1815634.37	6257057.09						
Clothoid	CS	9+95.44	1815634.37	6257057.09						
Clothoid	SPI	10+40.44	1815607.27	6257093.02	135		0°58'01"	Left	67.5	0.19
Clothoid	ST	11+30.44	1815554.28	6257165.76						
Tangent	ST	11+30.44	1815554.28	6257165.76						
Tangent	TS	15+37.30	1815314.72	6257494.63						
Clothoid	TS	15+37.30	1815314.72	6257494.63						
Clothoid	SPI	16+27.31	1815261.73	6257567.38	135		0°58'01"	Right	67.5	0.19
Clothoid	SC	16+72.30	1815234.63	6257603.3						
Arc	SC	16+72.30	1815234.63	6257603.3						
Arc	PI	18+05.34	1815154.49	6257709.5	4000	265.97	3°48'35"	Right		
Arc	CC	1812041.64	6255193.98							
Arc	CS	19+38.27	1815067.48	6257810.14						
Clothoid	CS	19+38.27	1815067.48	6257810.14						
Clothoid	SPI	19+83.27	1815038.05	6257844.18	135		0°58'01"	Right	67.5	0.19
Clothoid	ST	20+73.27	1814978.05	6257911.26						

MOWF TRANSITION TRACK HORIZONTAL ALIGNMENT

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Tangent	ST	20+73.27	1814978.05	6257911.26						
Tangent	TS	22+96.78	1814829.03	6258077.84						
Clothoid	TS	22+96.78	1814829.03	6258077.84						
Clothoid	SPI	23+86.78	1814769.03	6258144.92	135		0°58'01"	Right	67.5	0.19
Clothoid	SC	24+31.78	1814738.46	6258177.95						
Arc	SC	24+31.78	1814738.46	6258177.95						
Arc	PI	25+85.52	1814634.04	6258290.79	4000	307.33	4°24'08"	Right		
Arc	CC	1811802.62	6255461.18							
Arc	CS	27+39.11	1814521.27	6258395.28						
Clothoid	CS	27+39.11	1814521.27	6258395.28						
Clothoid	SPI	27+84.11	1814488.26	6258425.87	135		0°58'01"	Right	67.5	0.19
Clothoid	ST	28+74.11	1814421.22	6258485.92						
Tangent	ST	28+74.11	1814421.22	6258485.92						
Tangent	TS	29+62.32	1814355.51	6258544.77						
Clothoid	TS	29+62.32	1814355.51	6258544.77						
Clothoid	SPI	30+52.32	1814288.47	6258604.82	135		0°58'01"	Left	67.5	0.19
Clothoid	SC	30+97.32	1814255.46	6258635.4						
Arc	SC	30+97.32	1814255.46	6258635.4						
Arc	PI	32+51.06	1814142.69	6258739.9	4000	307.33	4°24'08"	Left		
Arc	CC	1816974.11	6261569.51							
Arc	CS	34+04.64	1814038.27	6258852.74						
Clothoid	CS	34+04.64	1814038.27	6258852.74						
Clothoid	SPI	34+49.64	1814007.7	6258885.77	135		0°58'01"	Left	67.5	0.19
Clothoid	ST	35+39.64	1813947.7	6258952.85						

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Tangent	ST	35+39.64	1813947.7	6258952.85						
Tangent	TS	62+64.00	1812131.34	6260983.36						
Clothoid	TS	62+64.00	1812131.34	6260983.36						
Clothoid	SPI	63+24.00	1812091.34	6261028.08	90		0°30'56"	Left	45	0.07
Clothoid	SC	63+54.00	1812071.54	6261050.61						
Arc	SC	63+54.00	1812071.54	6261050.61						
Arc	PI	68+19.10	1811764.58	6261400.04	5000	927.53	10°37'43"	Left		
Arc	CC	1815827.97	6264350.49							
Arc	CS	72+81.51	1811527.35	6261800.08						
Clothoid	CS	72+81.51	1811527.35	6261800.08						
Clothoid	SPI	73+11.51	1811512.04	6261825.88	90		0°30'56"	Left	45	0.07
Clothoid	ST	73+71.51	1811481.9	6261877.77						
Tangent	ST	73+71.51	1811481.9	6261877.77						
Tangent	TS	85+56.62	1810886.6	6262902.51						
Clothoid	TS	85+56.62	1810886.6	6262902.51						
Clothoid	SPI	86+23.29	1810853.11	6262960.15	100		0°15'21"	Left	50	0.04
Clothoid	SC	86+56.62	1810836.49	6262989.05						
Arc	SC	86+56.62	1810836.49	6262989.05						
Arc	PI	96+63.12	1810334.8	6263861.6	11200	2007.61	10°16'13"	Left		
Arc	CC	1828949.58	6266158.82							
Arc	CS	106+64.23	1809996.71	6264809.62						
Clothoid	CS	106+64.23	1809996.71	6264809.62						
Clothoid	SPI	106+97.56	1809985.51	6264841.02	100		0°15'21"	Left	50	0.04
Clothoid	ST	107+64.23	1809963.4	6264903.91						
Tangent	ST	107+64.23	1809963.4	6264903.91						
Tangent	POE	129+64.22	1809233.67	6266979.35						



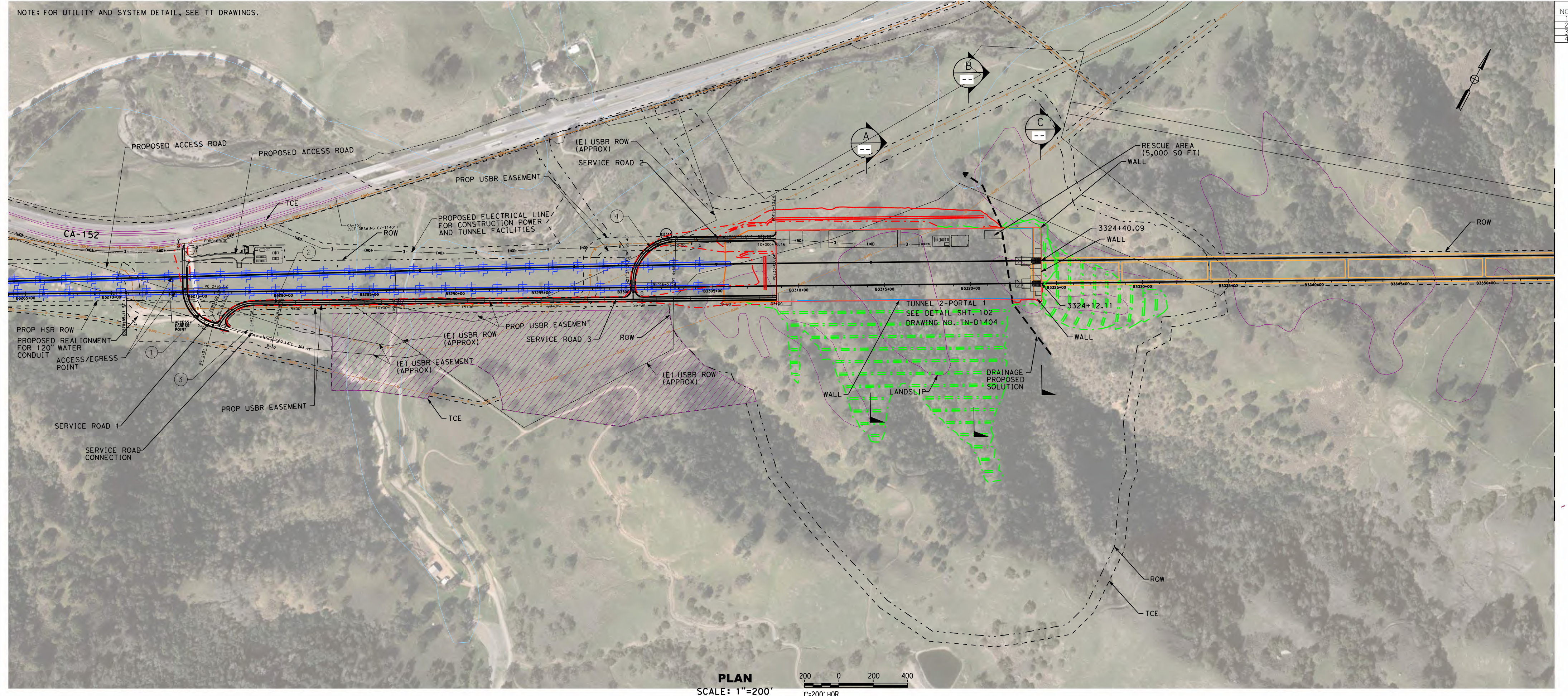
UPRR CONNECTION TRACK PROFILE

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Arc	PC	0+00.00	1819765.28	6253056.62						
Arc	PI	0+43.18	1819730.13	6253081.71	949.98	86.3	5°12'18"	Left		
Arc	CC	1820317.23	6253829.81							
Arc	PT	0+86.30	1819697.41	6253109.88						
Tangent	PT	0+86.30	1819697.41	6253109.88						
Tangent	PC	1+61.17	1819640.67	6253158.73						
Arc	PC	1+61.17	1819640.67	6253158.73						
Arc	PI	2+26.22	1819591.38	6253201.17	1600	130.02	4°39'22"	Right		
Arc	CC	1818596.75	6251946.2							
Arc	PRC	2+91.19	1819538.8	6253239.47						
Arc	PI	5+94.04	1819294.01	6253417.78	15983.5	605.62	2°10'15"	Left		
Arc	CC	1828949.58	6266158.82							
Arc	CS	8+96.81	1819056.16	6253605.23						
Clothoid	CS	8+96.81	1819056.16	6253605.23						
Clothoid	SPI	9+46.26	1819017.32	6253635.84	77.5		1°37'09"	Left	35.11	0.15
Clothoid	SC	9+74.31	1818995.78	6253653.82						
Arc	SC	9+74.31	1818995.78	6253653.82						
Arc	PI	12+41.73	1818790.51	6253825.22	1500	529.28	20°13'02"	Left		
Arc	CC	1819957.17	6254805.23							
Arc	CS	15+03.59	1818657.11	6254056.99						
Clothoid	CS	15+03.59	1818657.11	6254056.99						
Clothoid	SPI	15+29.43	1818644.22	6254079.39	77.5		1°28'49"	Left	38.75	0.17
Clothoid	ST	15+81.09	1818619.62	6254124.82						

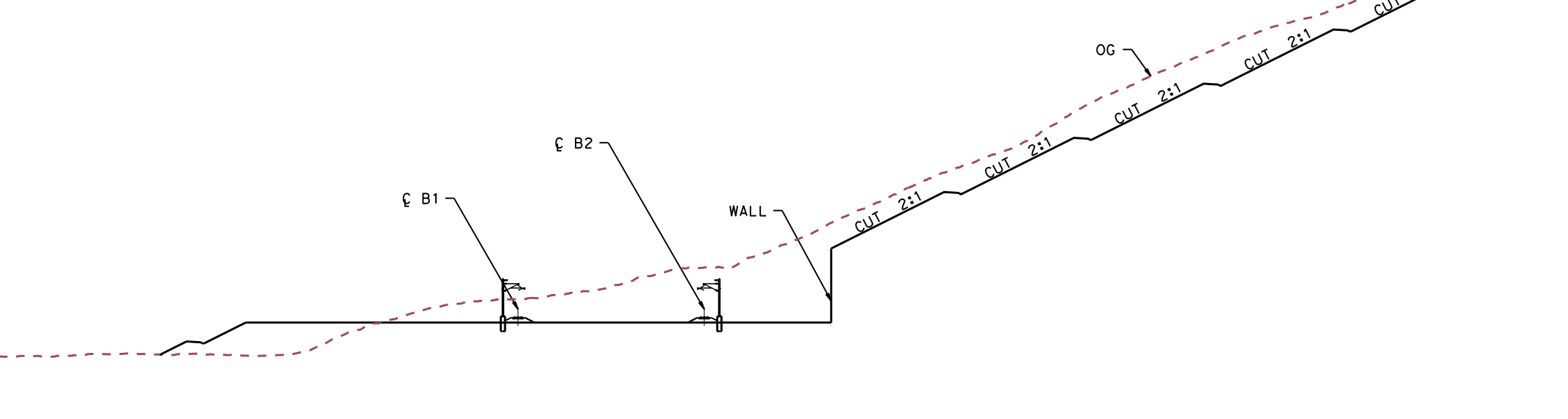
UPRR CONNECTION TRACK HORIZONTAL ALIGNMENT

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Tangent	ST	15+81.09	1818619.62	6254124.82						
Tangent	TS	17+49.90	1818539.22	6254273.25						
Clothoid	TS	17+49.90	1818539.22	6254273.25						
Clothoid	SPI	18+32.58	1818499.84	6254345.95	124		3°33'08"	Right	61.99	0.64
Clothoid	SC	18+73.90	1818477.93	6254381.02						
Arc	SC	18+73.90	1818477.93	6254381.02						
Arc	PI	19+78.08	1818422.73	6254469.37	1000	207.61	11°53'44"	Right		
Arc	CC	1817629.83	6253851.18							
Arc	CS	20+81.51	1818350.51	6254544.45						
Clothoid	CS	20+81.51	1818350.51	6254544.45						
Clothoid	SPI	21+22.86	1818321.84	6254574.25	124		3°33'08"	Right	61.99	0.64
Clothoid	ST	22+05.51	1818260.94	6254630.17						
Tangent	ST	22+05.51	1818260.94	6254630.17						
Tangent	TS	50+50.89	1816165.04	6256554.6						
Clothoid	TS	50+50.89	1816165.04	6256554.6						
Clothoid	SPI	51+44.23	1816096.29	6256617.72	140		1°15'12"	Left	70	0.26
Clothoid	SC	51+90.89	1816062.61	6256650.03						
Arc	SC	51+90.89	1816062.61	6256650.03						
Arc	PI	54+31.48	1815889	6256816.58	3200	480.26	8°35'57"	Left		
Arc	CC	1818277.91	6258959.24							
Arc	CS	56+71.16	1815742.24	6257007.22						

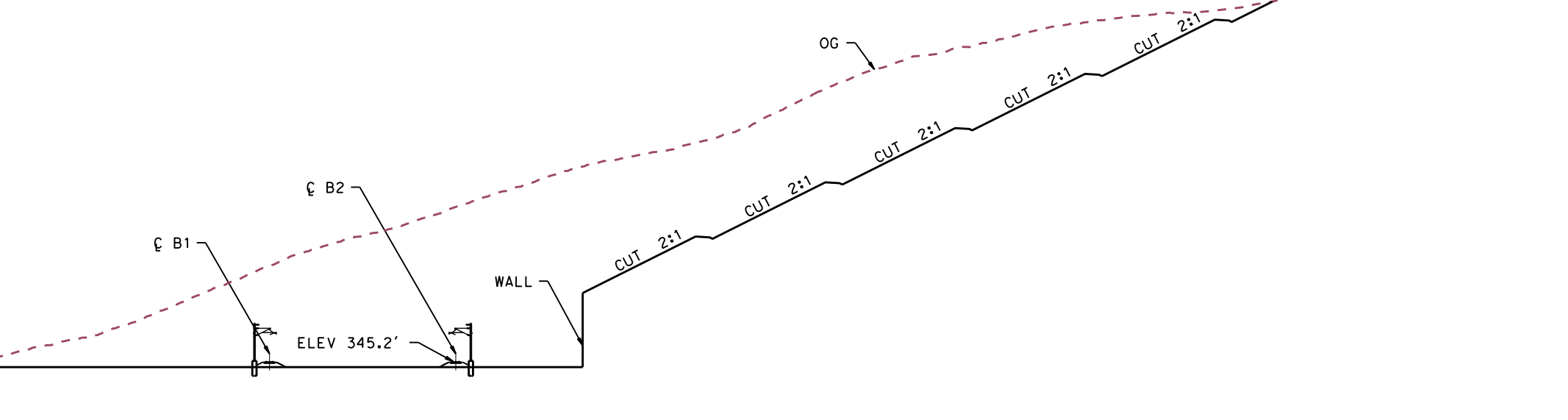
Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Clothoid	CS	56+71.16	1815742.24	6257007.22						
Clothoid	SPI	57+17.82	1815713.77	6257044.2	140		1°15'12"	Left	70	0.26
Clothoid	ST	58+11.16	1815658.47	6257119.39						
Tangent	ST	58+11.16	1815658.47	6257119.39						
Tangent	TS	59+50.18	1815576.09	6257231.38						
Clothoid	TS	59+50.18	1815576.09	6257231.38						
Clothoid	SPI	60+33.51	1							



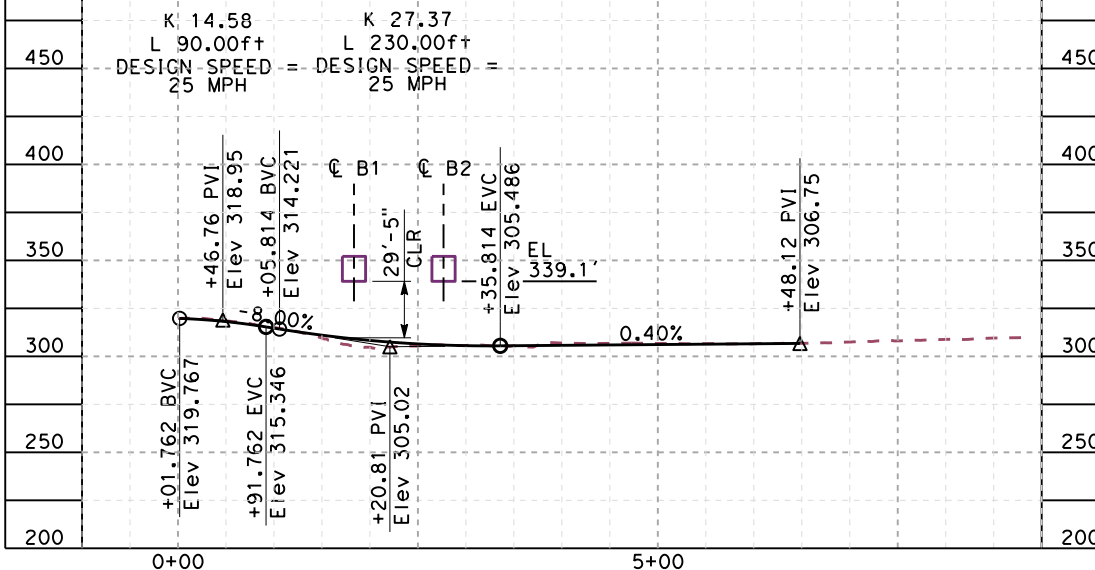
CURVE DATA SERVICE ROAD					
NO.	R	Δ	L	PVI	T
1	220	136° 35' 22.20"	524.466	552.688	
2	220	101° 35' 51.55"	178.830	162.014	
3	354	27° 52' 46"	141.933	78.451	
4	250	89° 53' 59.55"	392.699	249.999	



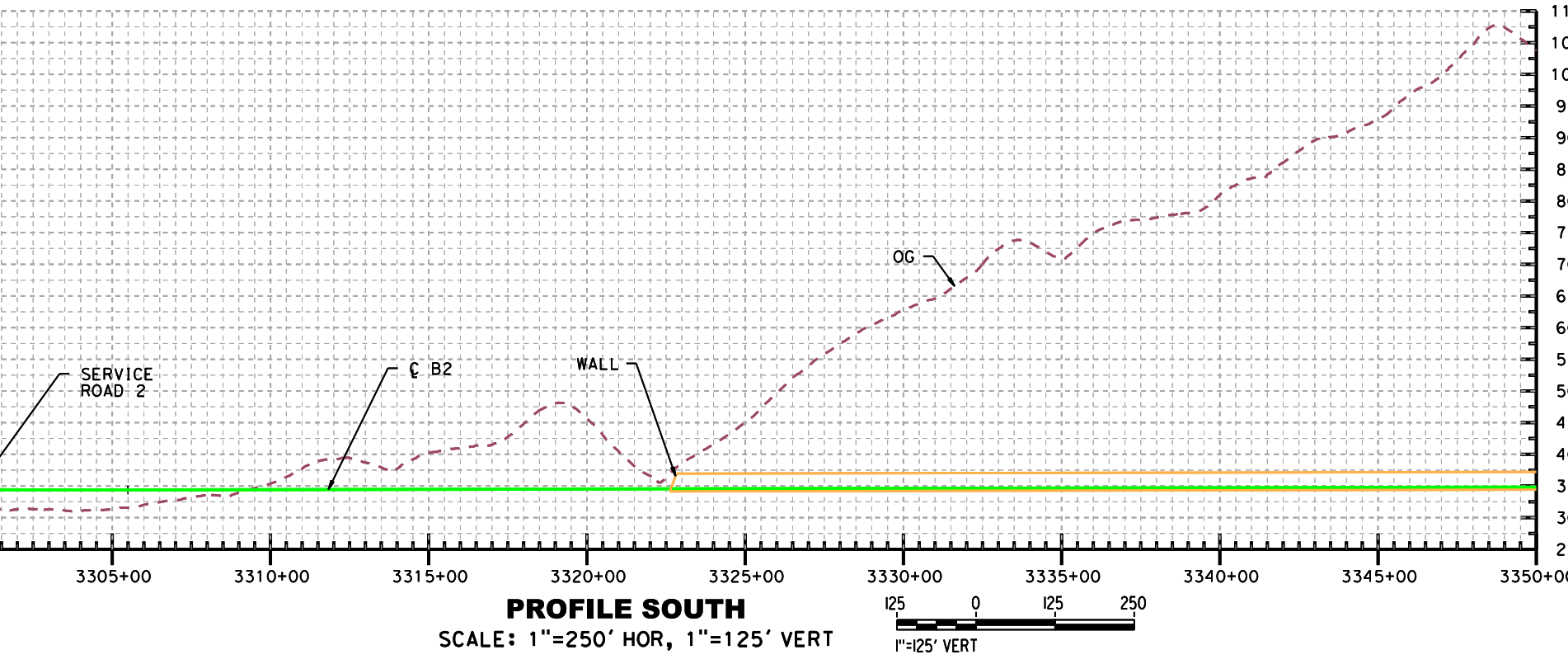
(A) TUNNEL 2-PORTAL 1 SECTION
SCALE 1"=50'



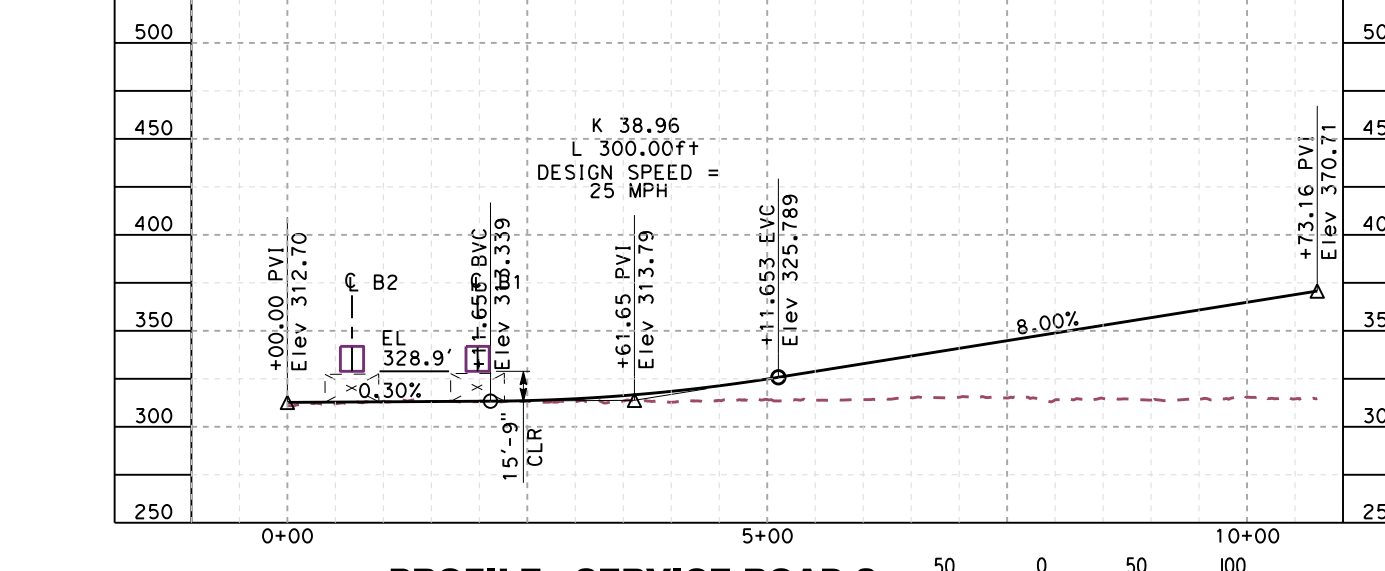
(B) TUNNEL 2-PORTAL 1 SECTION
SCALE 1"=50'



(C) TUNNEL 2-PORTAL 1 SECTION
SCALE 1"=50'



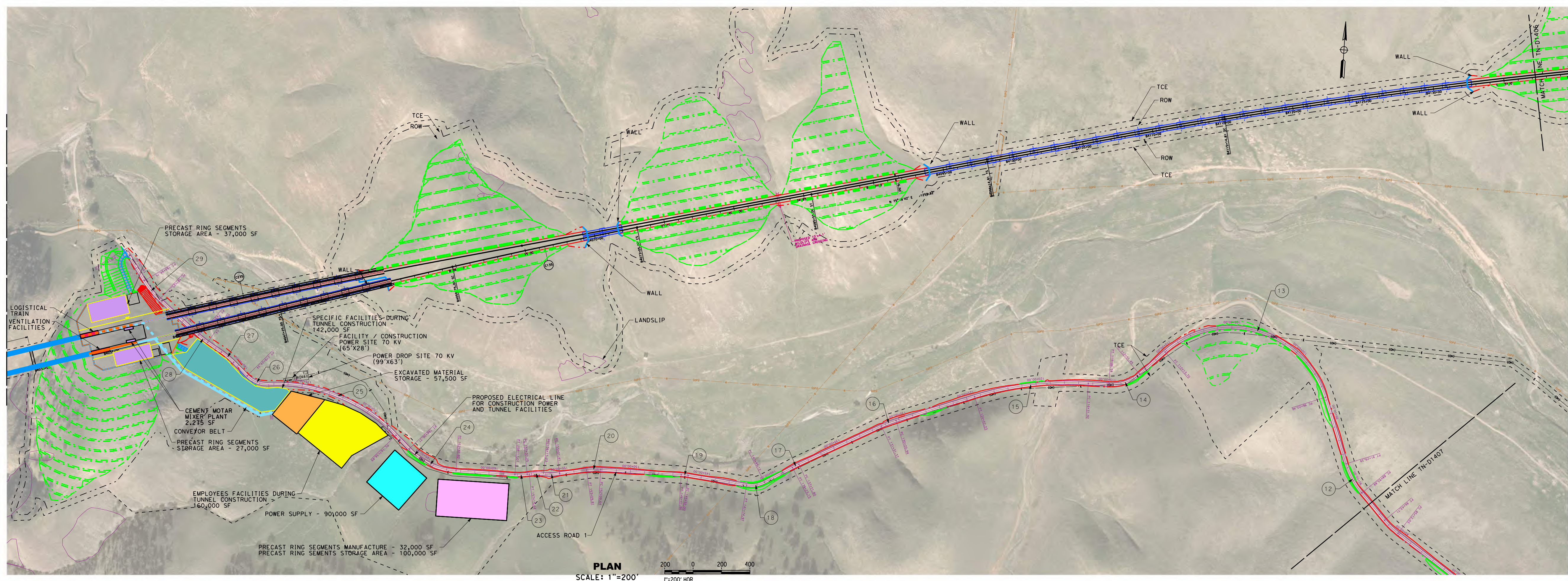
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 132 OF 218



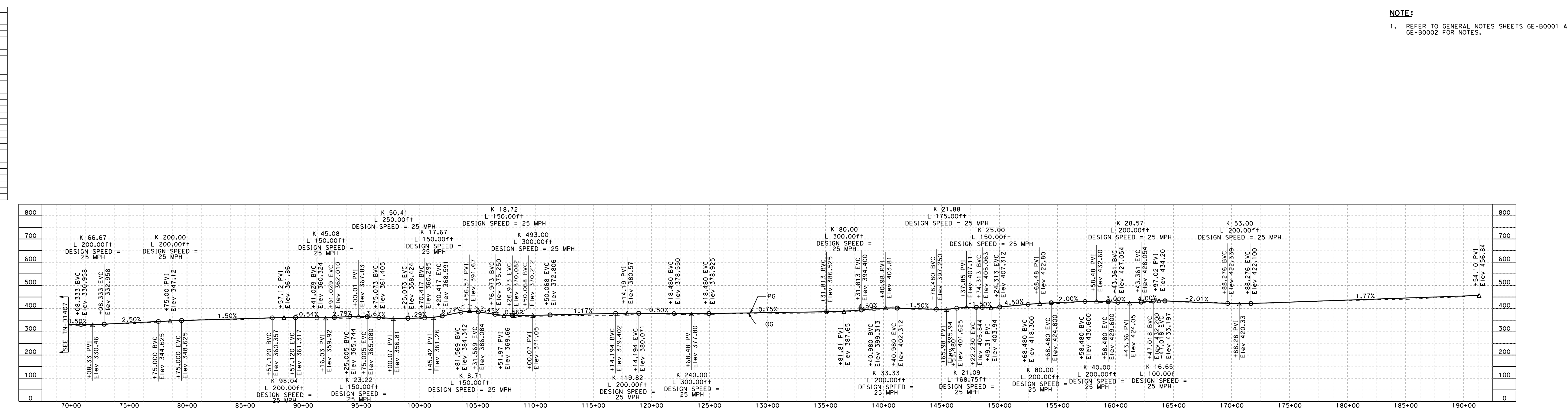
(D) TUNNEL 2-PORTAL 1 SECTION
SCALE 1"=50'

2021 RECORD SET P&P NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607	CALIFORNIA High-Speed Rail Authority	CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL TUNNEL 2 - PORTAL 1	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1404 SCALE AS SHOWN SHEET NO.
--	--	--	--	---

4/22/2021 10:14:52 AM C:\p001\hntb\corporate\44037\corporate\165\sub\alt_1\101_005.dwg
 4/22/2021 10:14:52 AM C:\p001\hntb\corporate\44037\corporate\165\sub\alt_1\101_005.dwg
 4/22/2021 10:14:52 AM C:\p001\hntb\corporate\44037\corporate\165\sub\alt_1\101_005.dwg



NO.	R	Δ	L	Δ
1	200	24°10'26.32"	84.383	42.829
2	225	31°00'52.48"	121.794	62.429
3	2000	2°51'53.22"	141.955	73.811
4	130	90°1'43.45"	204.269	130.065
5	250	41°4'29.13"	179.222	93.657
6	200	35°23'59.02"	123.549	63.817
7	200	30°12'48.85"	105.465	53.990
8	100	57°17'44.81"	202.813	160.667
9	500	17°56'40.21"	156.395	78.944
10	300	11°32'59.99"	60.476	30.341
11	600	12°34'28.71"	131.681	66.106
12	600	22°29'22.30"	235.512	119.291
13	700	11°4'02'15.65"	139.323	1078.682
14	300	44°02'23.37"	235.130	229.158
15	2250	20°38'3.81"	810.311	409.532
16	800	7°54'32.18"	110.430	55.303
17	1000	2°56'53.16"	51.357	25.684
18	200	37°11'55.44"	129.848	67.305
19	500	5°42'46.30"	49.854	21.948
20	500	11°28'43.58"	109.171	50.294
21	500	13°2'33.88"	113.819	57.157
22	500	11°50'23.37"	100.413	50.376
23	500	9°56'33.07"	86.755	43.492
24	500	42°48'20.04"	373.549	195.376
25	1160	49°15'53.32"	991.406	531.883
26	200	48°5'25.14"	168.041	89.339
27	600	10°45'46.18"	112.708	56.520
28	600	7°55'26.12"	82.981	41.957
29	600	16°11'57.94"	169.640	85.330



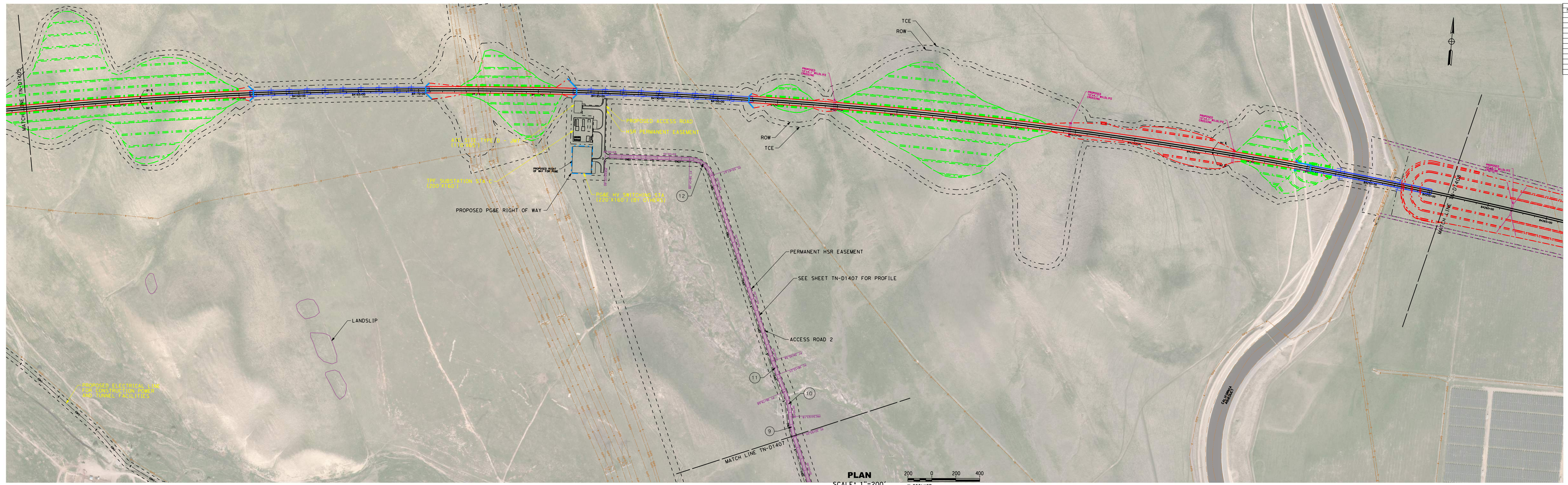
PROFILE ACCESS ROAD 1
 SCALE: 1"=250' HOR, 1"=125' VERT
 SCALE: 1"=125' VERT

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

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 133 OF 218

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607	CALIFORNIA High-Speed Rail Authority	CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL TUNNEL PORTAL 2 ACCESS ROAD	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1405 SCALE AS SHOWN SHEET NO.
---	--	--	--	--

11/30/2021 9:54:12 AM C:\Users\hntb\OneDrive\Documents\11537\11537.ctb C:\Users\hntb\OneDrive\Documents\11537\11537.ctb

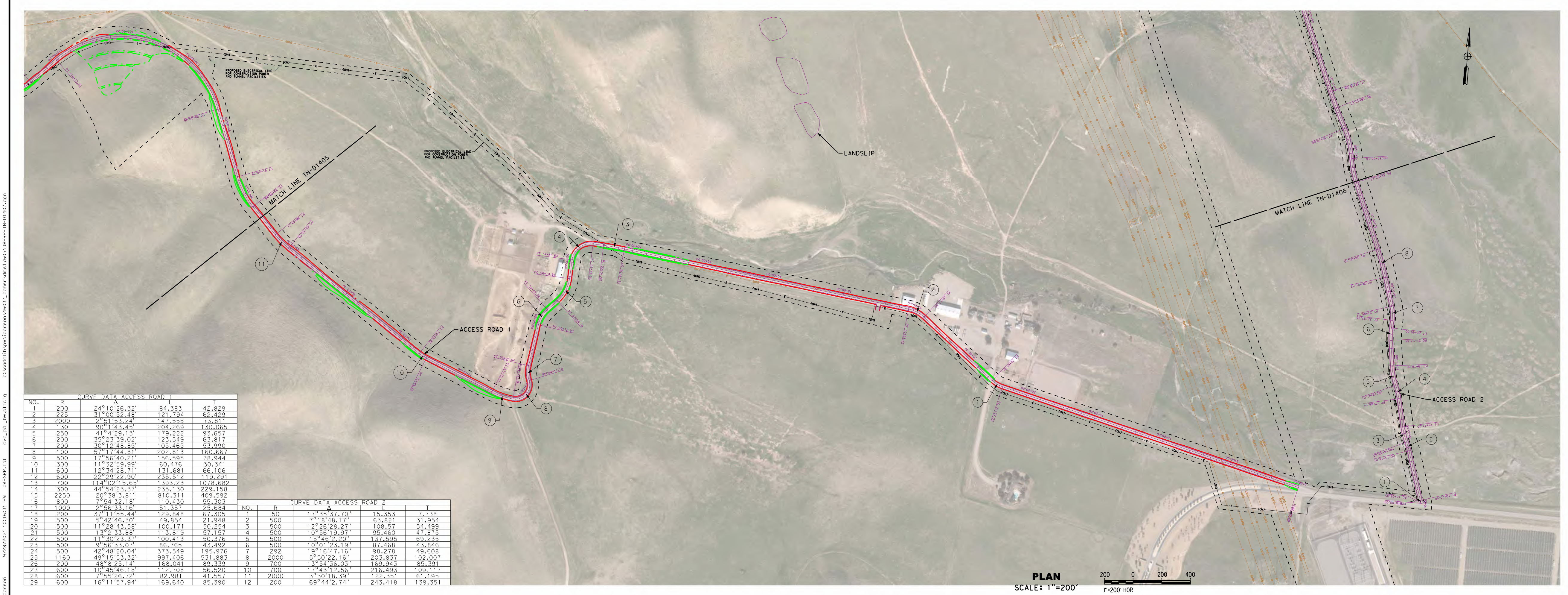


CURVE DATA ACCESS ROAD 2				
NO.	R	Δ	L	T
1	50	17°35'37.70"	15.353	7.738
2	500	7°18'48.17"	63.821	31.954
3	500	12°26'28.27"	109.57	54.499
4	500	10°56'19.97"	95.460	47.875
5	500	15°46'2.20"	137.695	69.235
6	500	10°01'23.13"	81.468	43.846
7	292	19°16'47.16"	98.278	49.608
8	2000	3°40'22.16"	203.837	102.007
9	700	13°54'36.03"	169.943	85.391
10	700	17°43'12.56"	216.493	109.117
11	2000	3°10'18.39"	122.351	61.195
12	200	69°44'2.74"	243.418	139.351

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

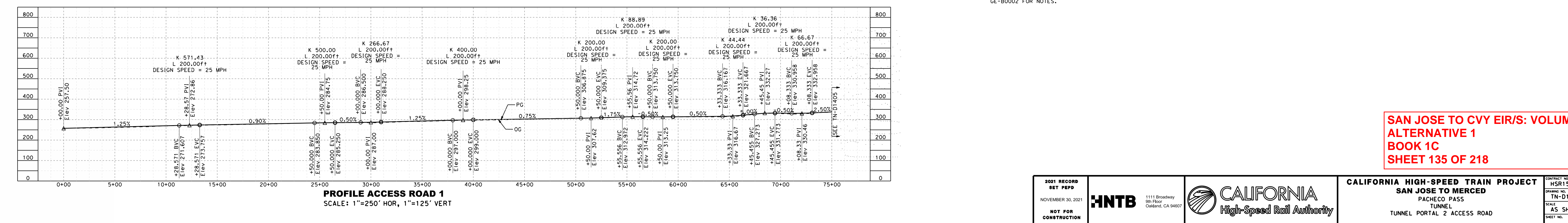
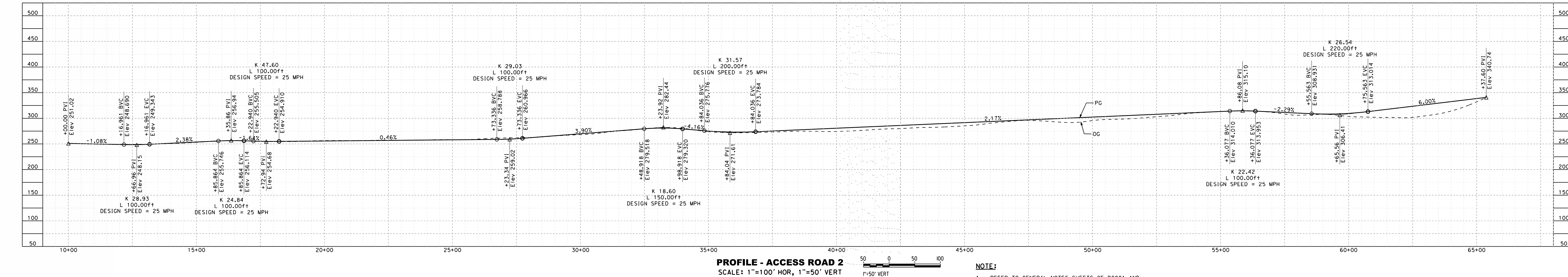
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 134 OF 218

2021 RECORD SET PERD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION		1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL TUNNEL PORTAL 2 ACCESS ROAD	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1406 SCALE AS SHOWN SHEET NO.
---	--	---	--	--	--



CURVE DATA ACCESS ROAD 1			
NO.	R	Δ	L
1	200	24°10'26.32"	84.383
2	225	31°00'52.48"	121.794
3	2000	2°51'53.24"	147.459
4	130	90°1'43.45"	204.269
5	250	41°4'29.33"	179.222
6	200	35°2'39.02"	123.549
7	200	30°12'48.85"	105.465
8	100	57°7'44.81"	202.813
9	500	17°56'40.21"	156.439
10	300	11°32'59.99"	60.476
11	600	17°34'28.11"	131.684
12	600	22°29'22.90"	235.512
13	700	114°02'15.65"	1393.23
14	300	41°54'23.37"	235.130
15	2250	2°58'3.81"	810.311
16	800	7°54'32.18"	110.430
17	1000	2°56'33.16"	51.357
18	200	37°11'55.44"	129.848
19	500	5°42'56.30"	49.854
20	500	11°29'23.58"	100.171
21	500	13°2'33.88"	113.819
22	500	11°30'23.37"	100.413
23	500	9°56'33.07"	86.195
24	500	42°48'20.04"	373.649
25	1160	48°15'53.32"	991.406
26	200	48°18'25.14"	168.041
27	600	10°45'46.18"	112.708
28	600	17°53'46.72"	122.351
29	600	16°11'37.94"	169.640

CURVE DATA ACCESS ROAD 2			
NO.	R	Δ	L
1	50	17°35'37.70"	15.353
2	500	7°18'48.17"	63.821
3	500	12°28'28.27"	108.57
4	500	10°56'19.97"	95.460
5	500	15°46'22.20"	137.595
6	500	10°01'23.19"	87.468
7	292	19°16'47.16"	98.278
8	2000	5°50'22.16"	203.837
9	700	13°51'35.03"	169.943
10	700	17°43'12.56"	216.493
11	2000	3°30'18.39"	122.351
12	200	69°24'27.24"	245.218

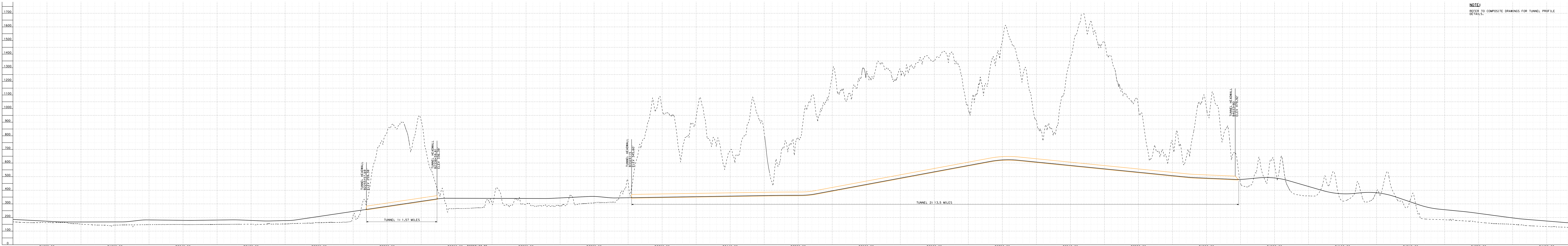


NOTE:
1. REFER TO GENERAL NOTES SHEETS GE-B0001 AND GE-B0002 FOR NOTES.

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 135 OF 218

2021 RECORD SET PERD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION		1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL TUNNEL PORTAL 2 ACCESS ROAD	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1407 SCALE: AS SHOWN SHEET NO.
---	--	---	--	--	---

NOTE:
REFER TO COMPOSITE DRAWINGS FOR TUNNEL PROFILE
DETAILS.



TUNNEL HEADWALL
B2280+00
ELEV 259.38'

TUNNEL 1: 1.57 MILES

TUNNEL HEADWALL
B3324.15
ELEV 445.60'

TUNNEL 2: 13.5 MILES

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 136 OF 218

PROFILE
SCALE: 1"=1600' HOR, 1"=100' VERT

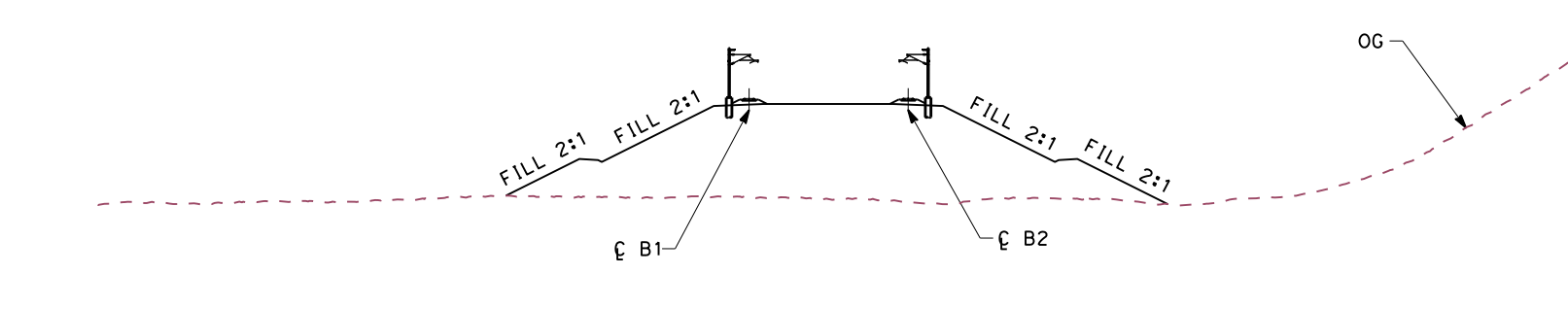
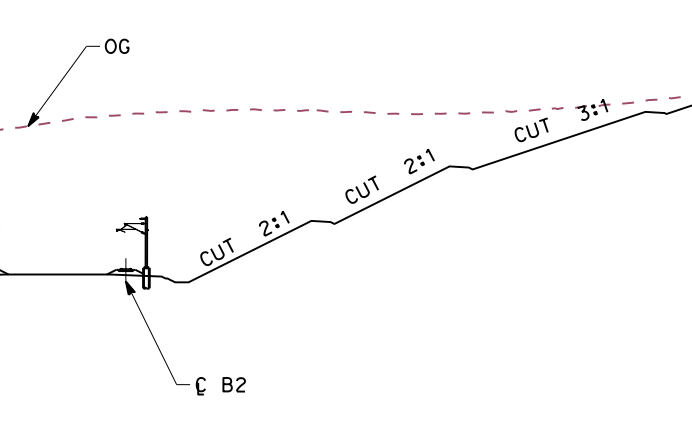
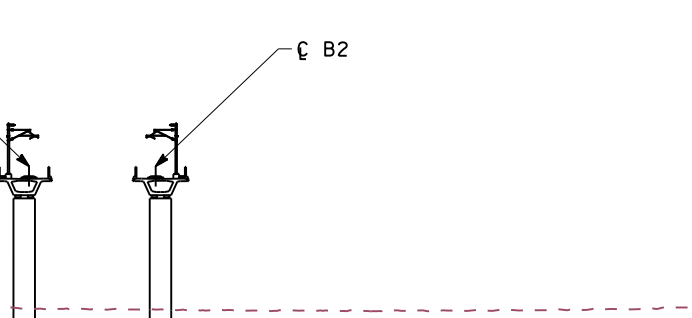
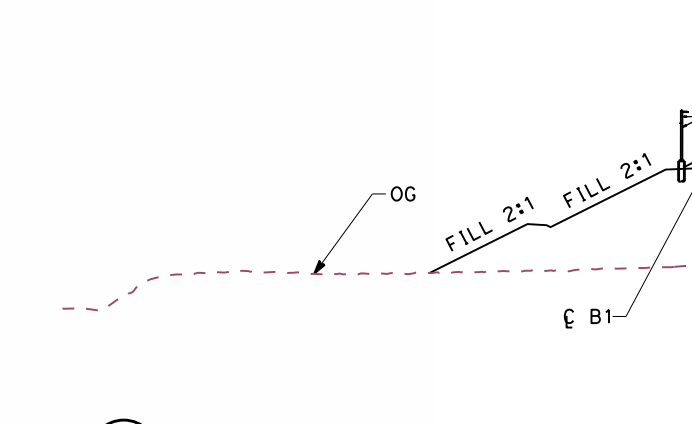
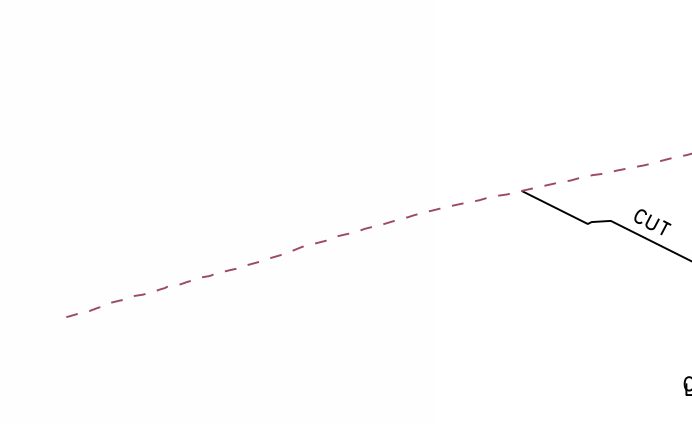
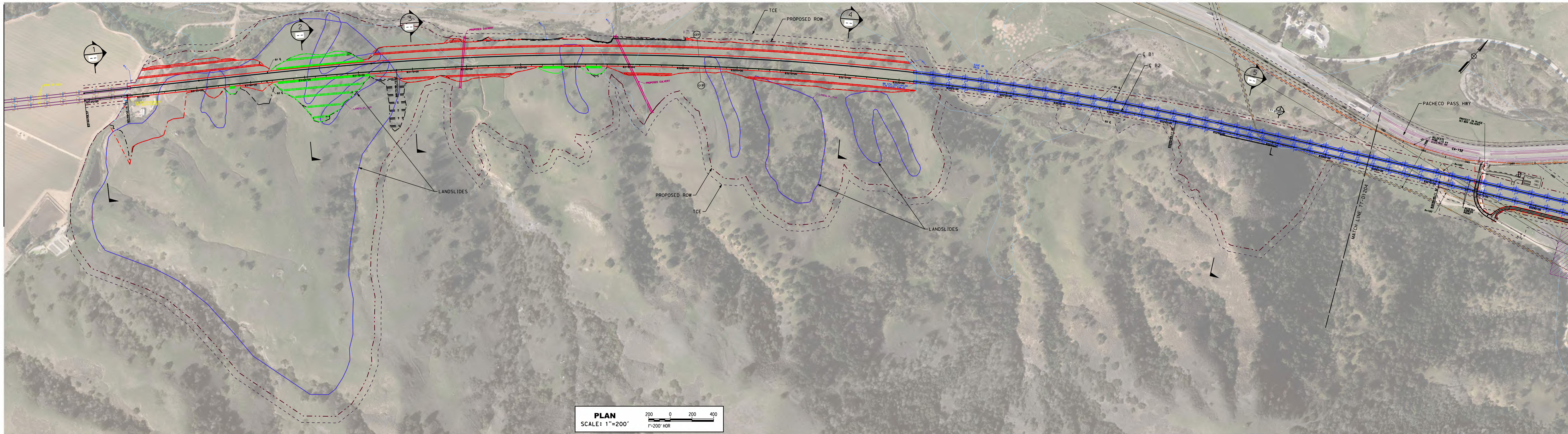
2021 RECORD
SET P&P
NOVEMBER 30, 2021
NOT FOR
CONSTRUCTION

HNTB
1111 Broadway
9th Floor
Oakland, CA 94607



CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
PACHECO PASS
TUNNEL
LONGITUDINAL PROFILE

CONTRACT NO.
HSR15-34
DRAWING NO.
TN-D1408
SCALE
AS SHOWN
SHEET NO.



**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 137 OF 218**

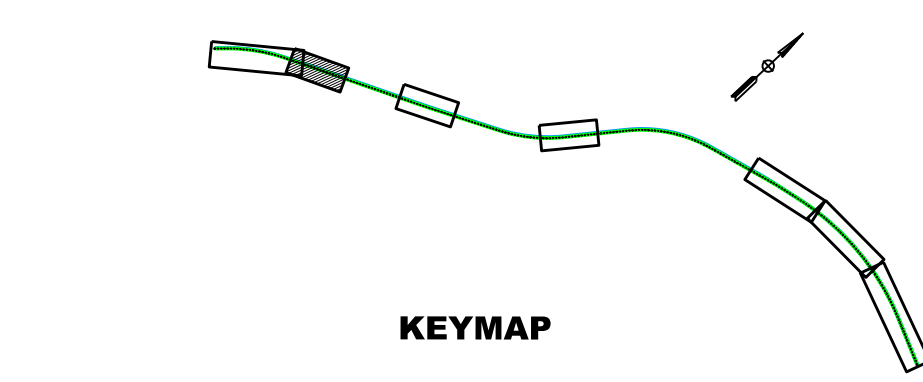
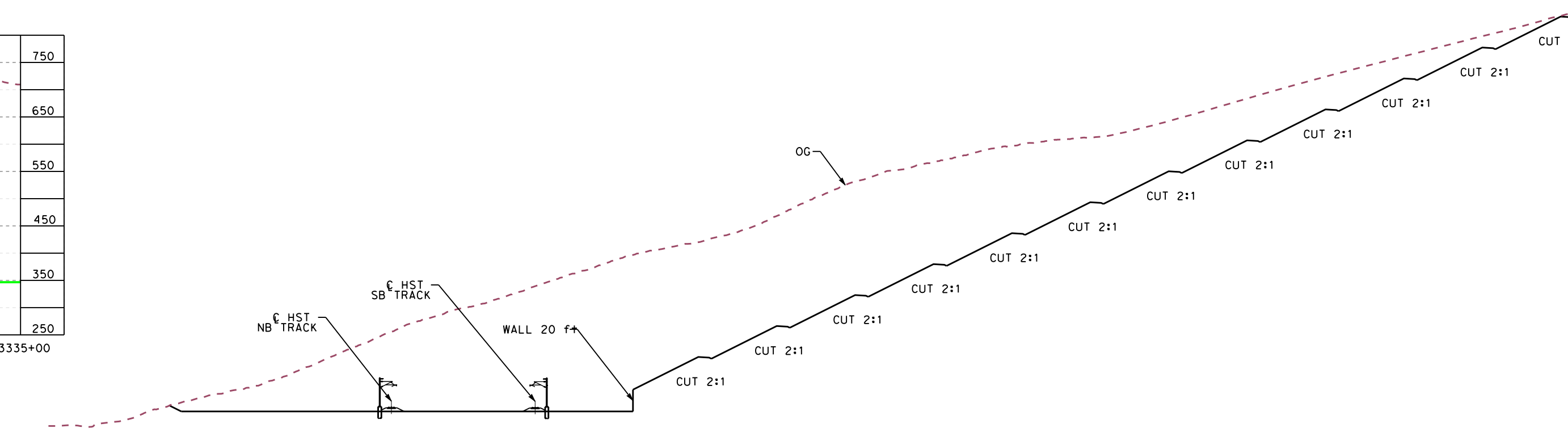
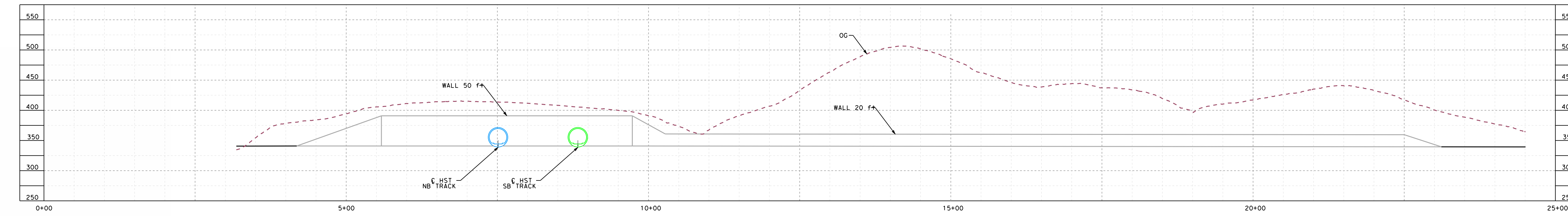
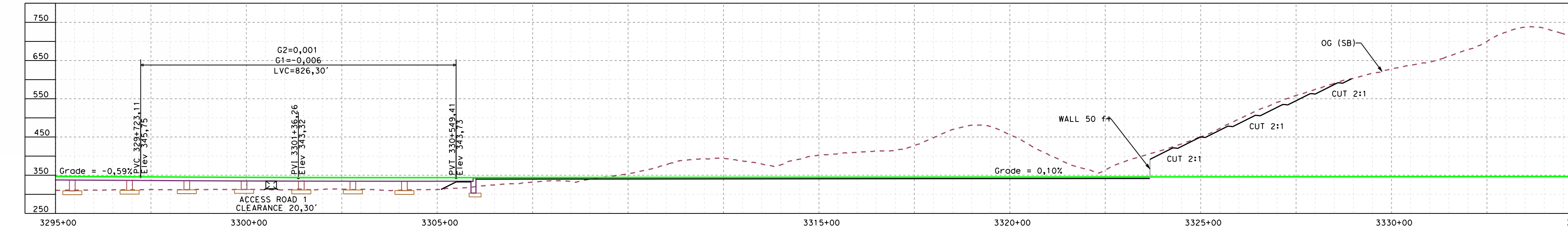
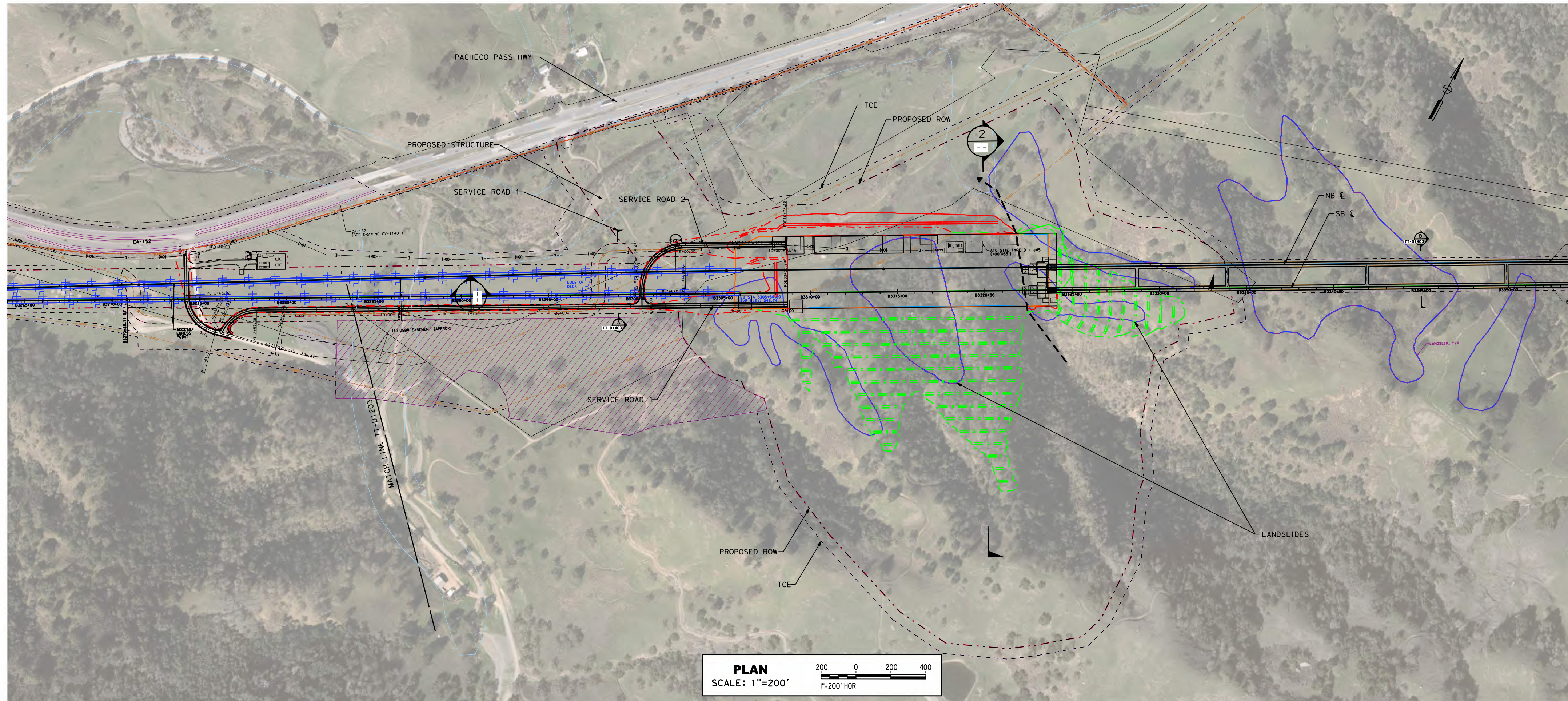
2021 RECORD
SET PERP
NOVEMBER 30, 2021
NOT FOR
CONSTRUCTION

HNTB
1111 Broadway
9th Floor
Oakland, CA 94607

CALIFORNIA
High-Speed Rail Authority

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED**
PACHECO PASS
TUNNEL
GRADING DETAIL

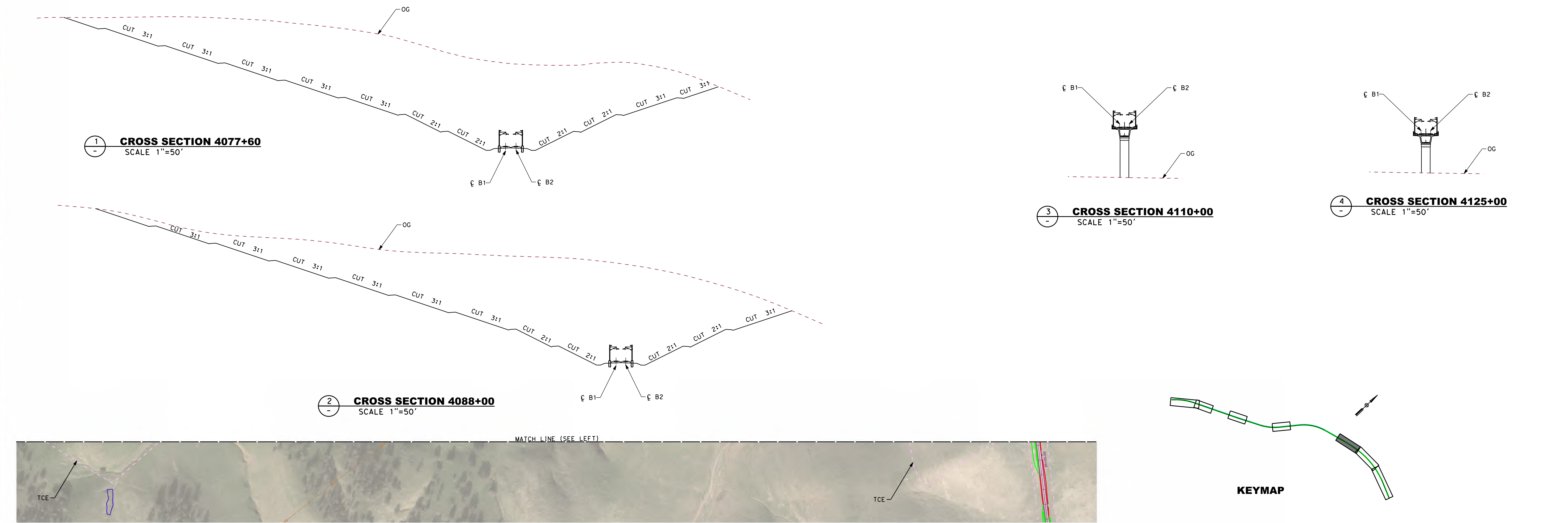
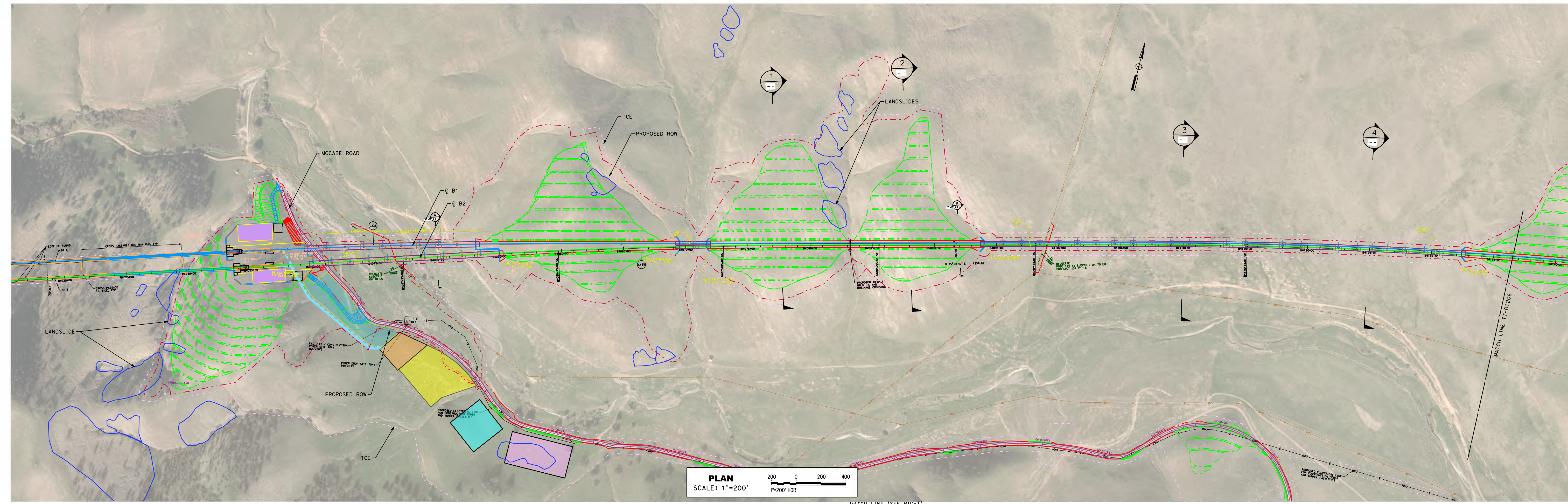
CONTRACT NO.
HSR15-34
DRAWING NO.
TN-D1409
SCALE
AS SHOWN
SHEET NO.



SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 138 OF 218

2021 RECORD SET PEPD NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL GRADING DETAIL	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1410 SCALE AS SHOWN SHEET NO.
---	--	--	--	--

11/15/2021 12:43:42 PM c:\pds\1115\1115_03\1115_03_139.dgn
 c:\pds\1115\1115_03\1115_03_139.dgn
 11/15/2021 12:43:42 PM c:\pds\1115\1115_03\1115_03_139.dgn
 11/15/2021 12:43:42 PM c:\pds\1115\1115_03\1115_03_139.dgn



SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 139 OF 218

2021 RECORD
 SET PERD
 NOVEMBER 30, 2021
 NOT FOR
 CONSTRUCTION

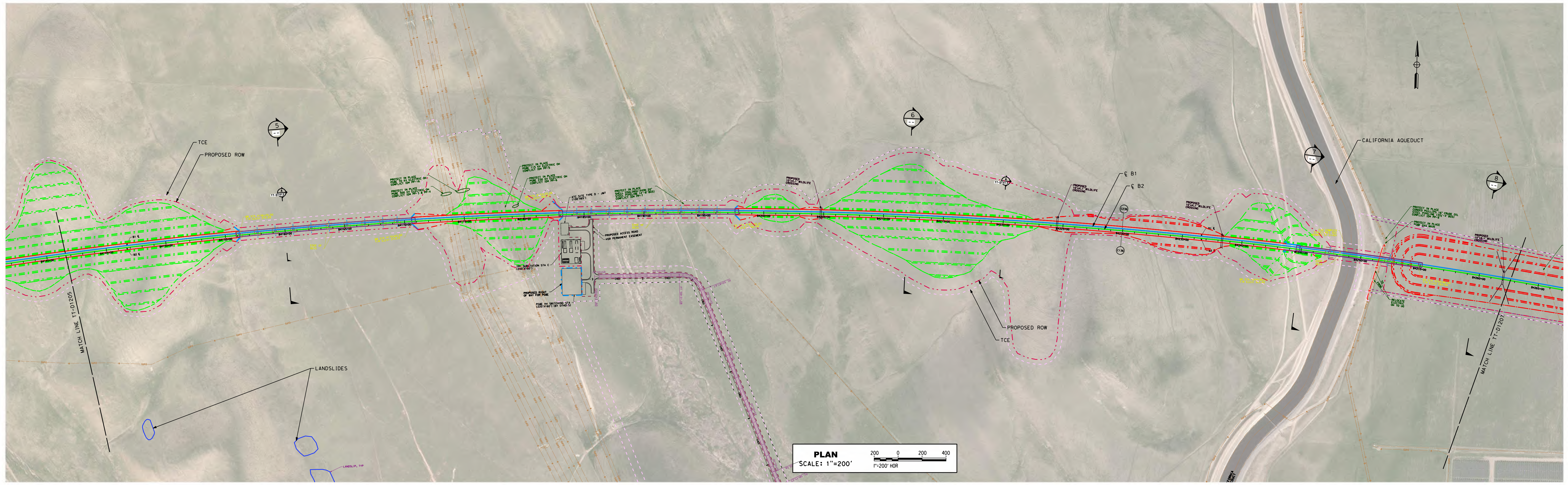
HNTB
 1111 Broadway
 9th Floor
 Oakland, CA 94607

CALIFORNIA
 High-Speed Rail Authority

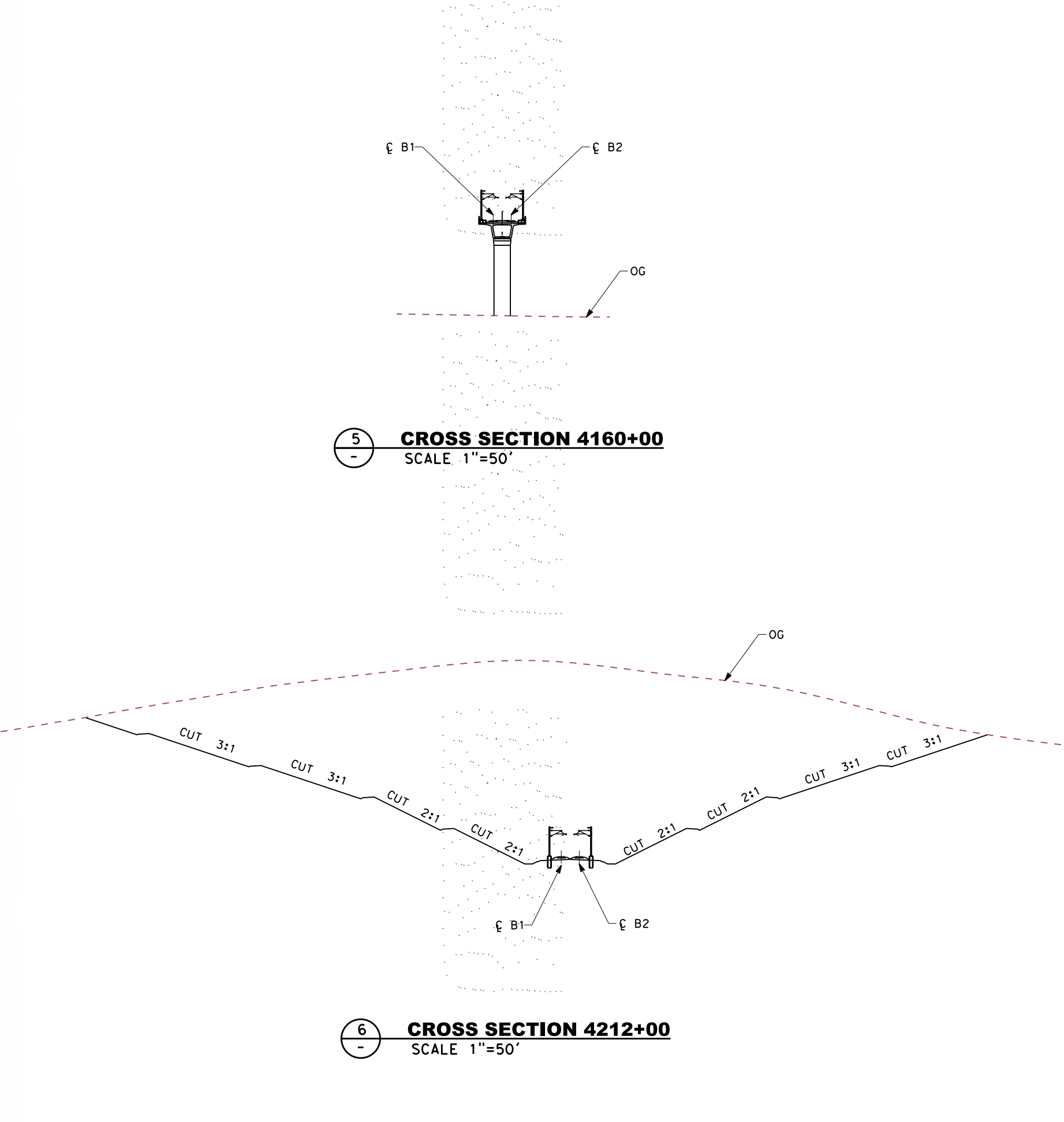
CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
 PACHECO PASS
 TUNNEL
 GRADING DETAIL

CONTRACT NO.
 HSR15-34
 DRAWING NO.
 TN-D1411
 SCALE
 AS SHOWN
 SHEET NO.

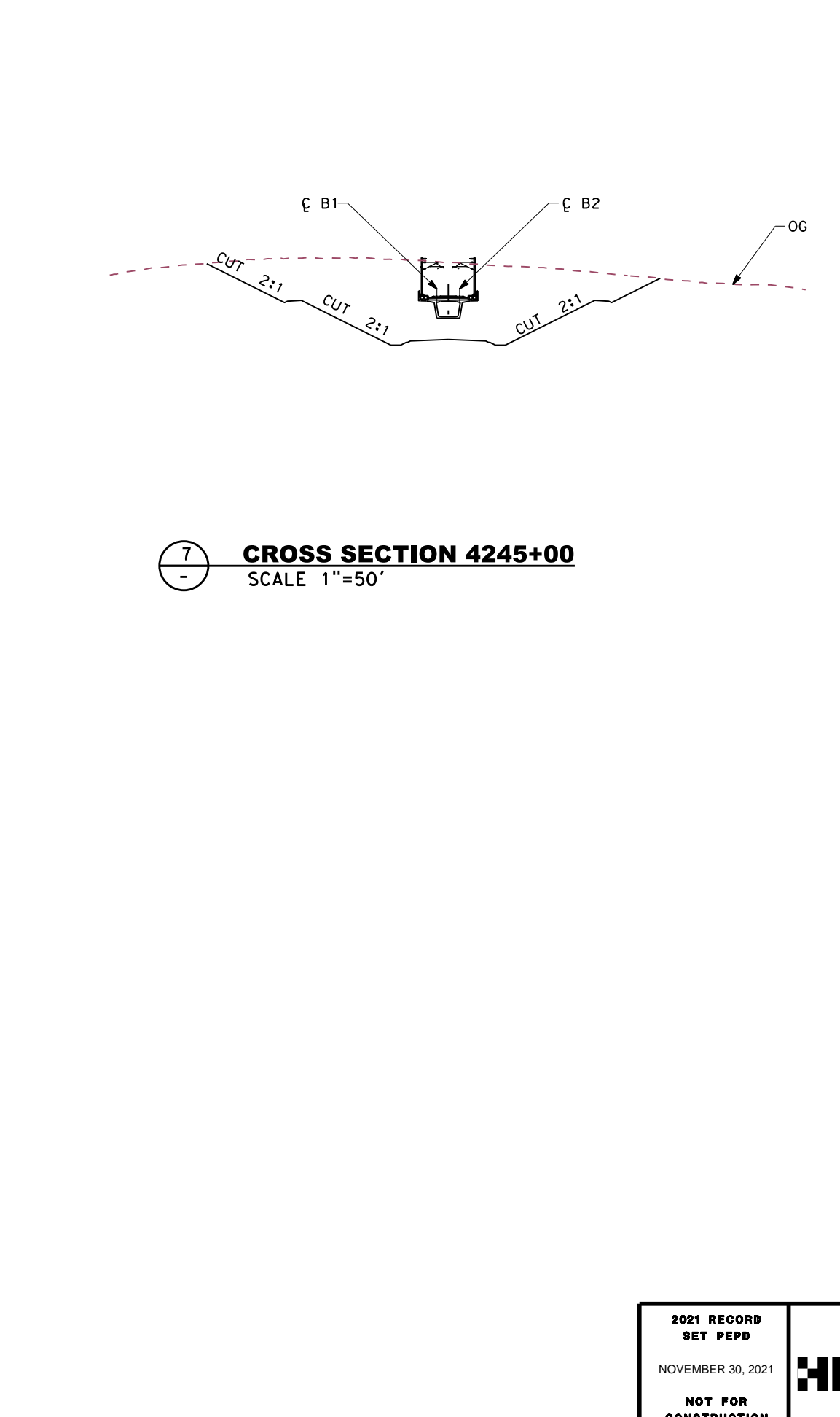
4/22/2021 10:29:51 AM 448682.dwg 4/22/2021 10:29:51 AM 448682.dwg 4/22/2021 10:29:51 AM 448682.dwg 4/22/2021 10:29:51 AM 448682.dwg



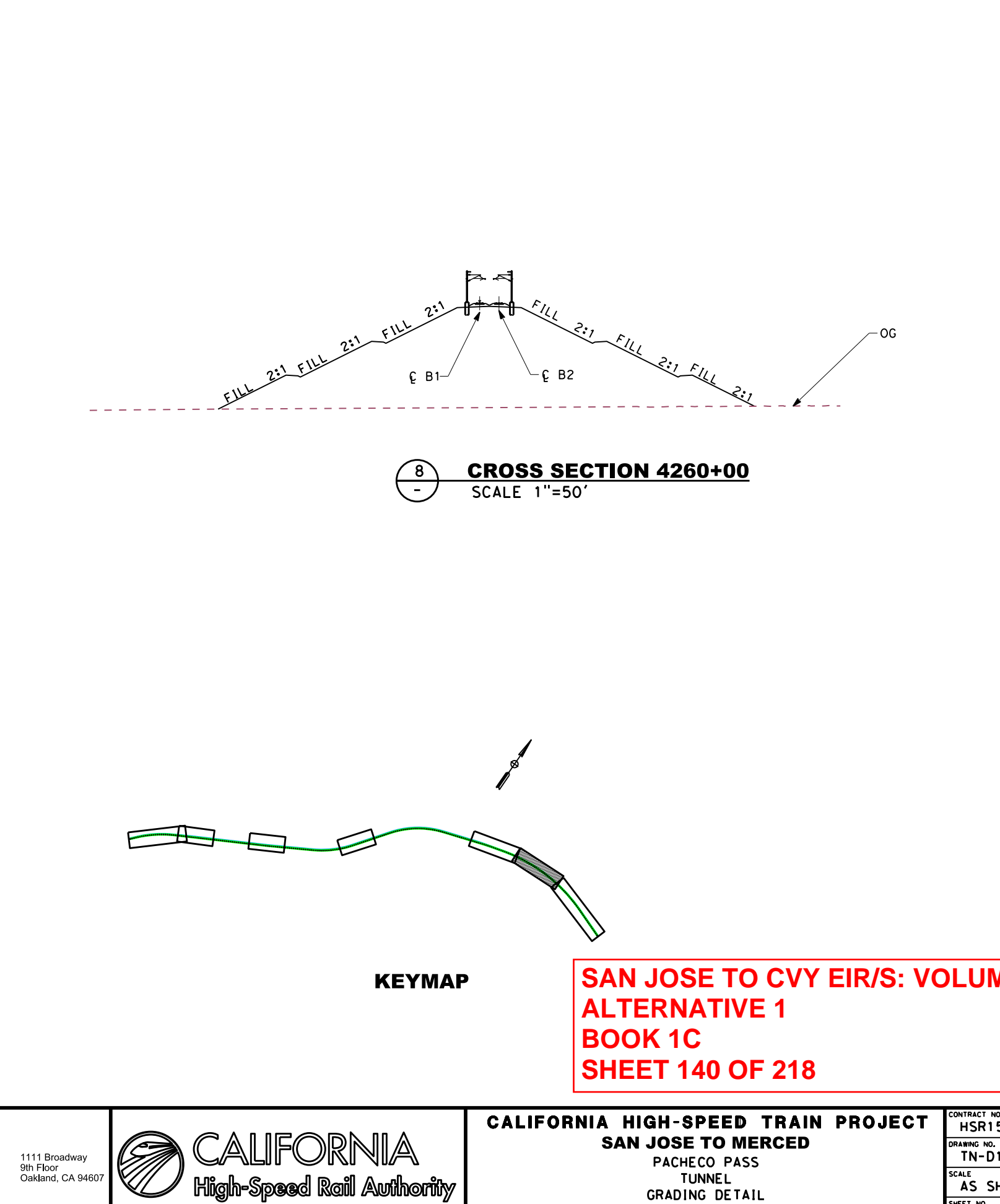
PLAN
 SCALE: 1"=200'
 200 0 200 400
 1"=200' HOR



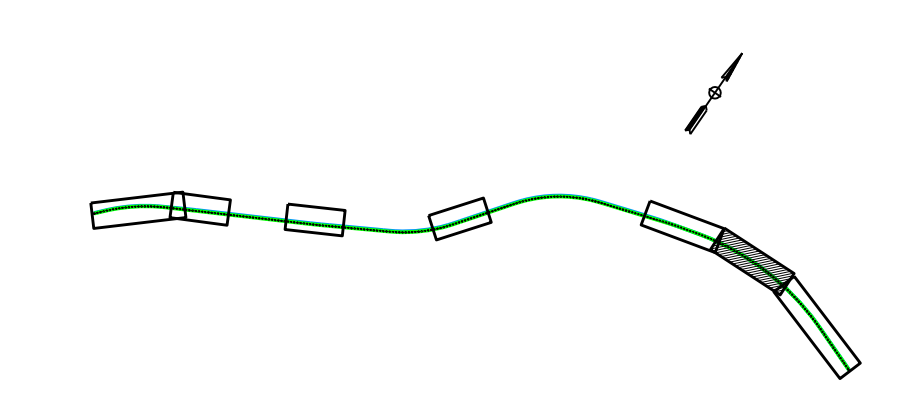
6
CROSS SECTION 4212+00
 SCALE 1"=50'



7
CROSS SECTION 4245+00
 SCALE 1"=50'



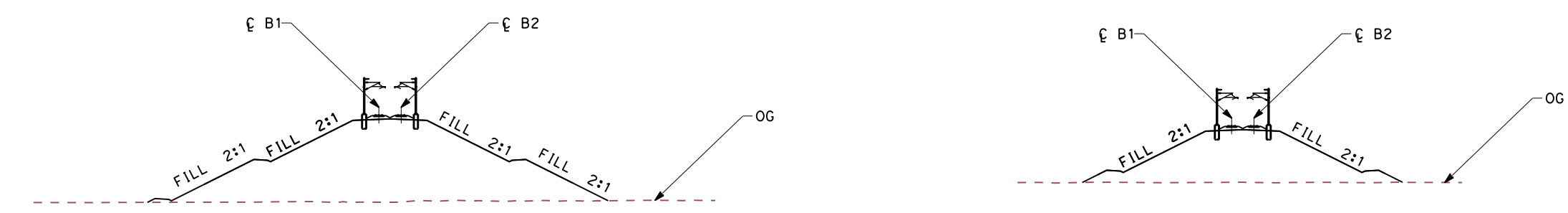
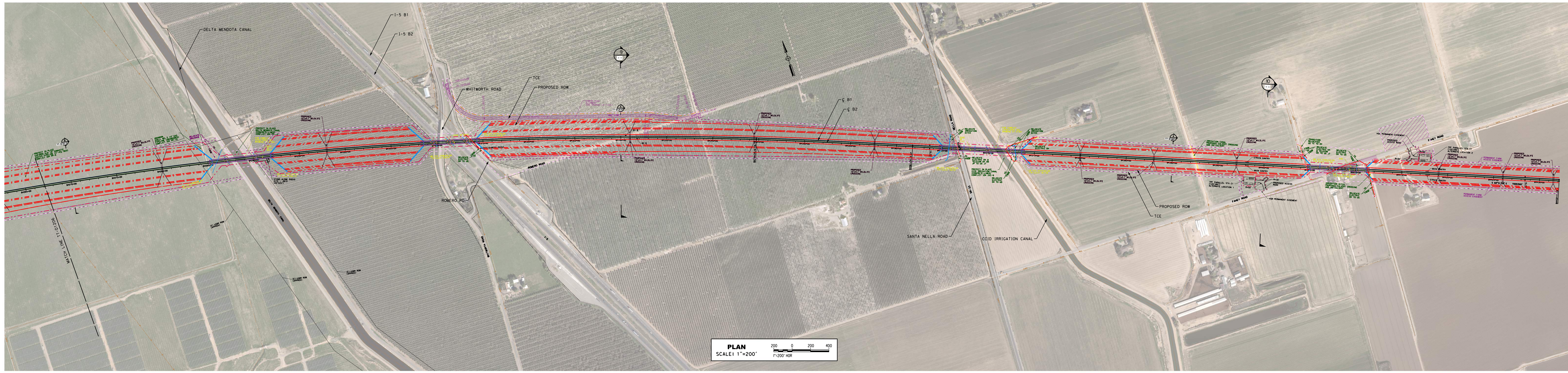
8
CROSS SECTION 4260+00
 SCALE 1"=50'



KEYMAP
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 140 OF 218

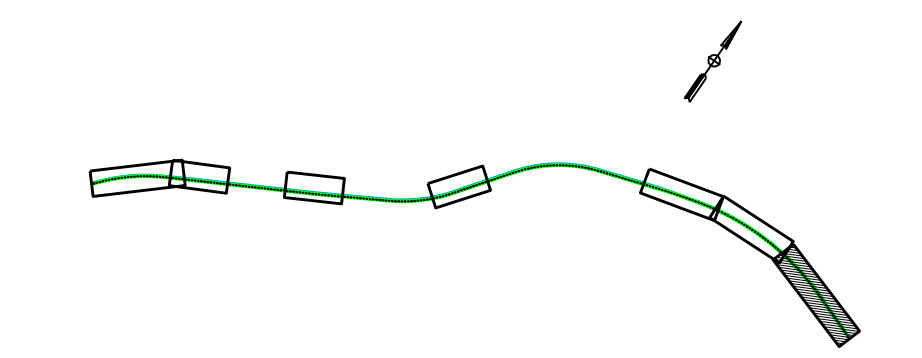
2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607	CALIFORNIA High-Speed Rail Authority	CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL GRADING DETAIL	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1412 SCALE AS SHOWN SHEET NO.
---	--	--	---	--

10/29/2021 10:29:40 AM cad:pdf:dwg:pln11g
 C:\projects\hsr\san-jose-to-merced\civil\workbooks\plan\11-0113.dwg

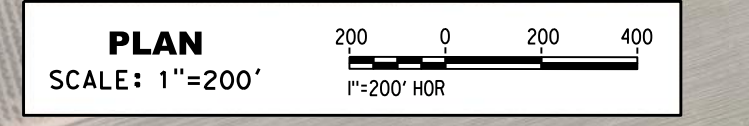


9 CROSS SECTION 4330+00
SCALE 1"=50'

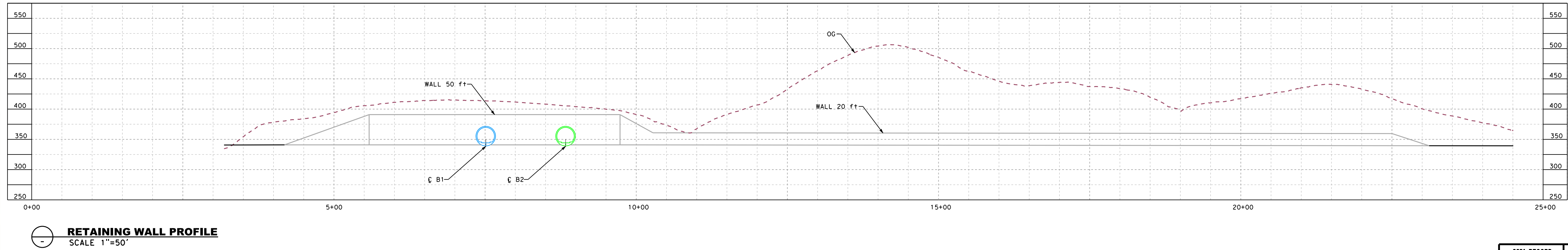
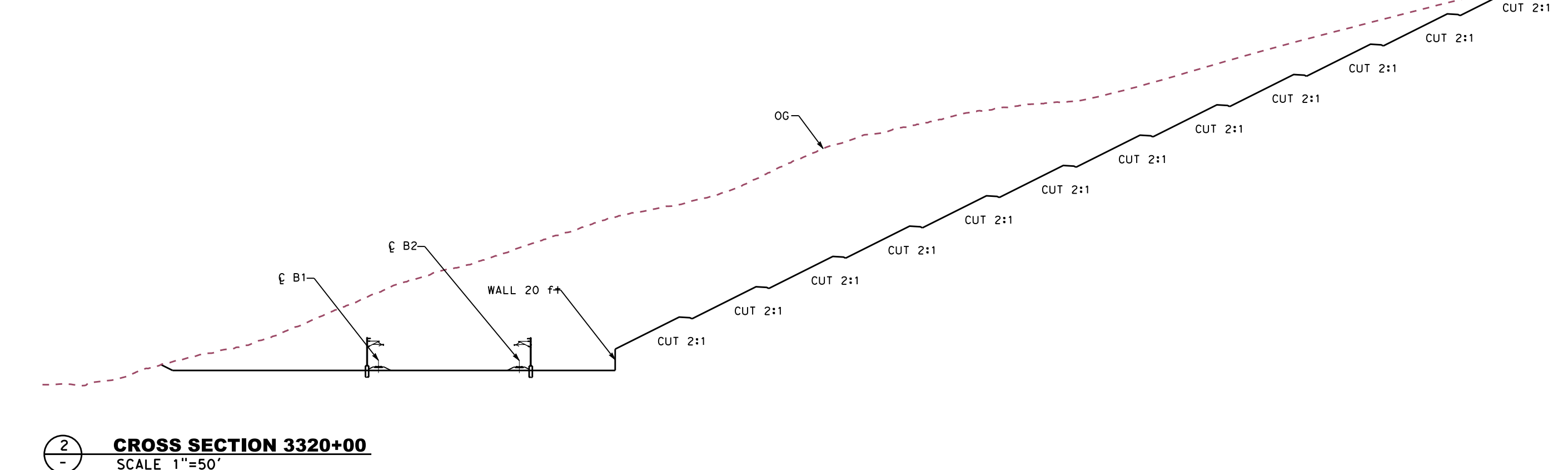
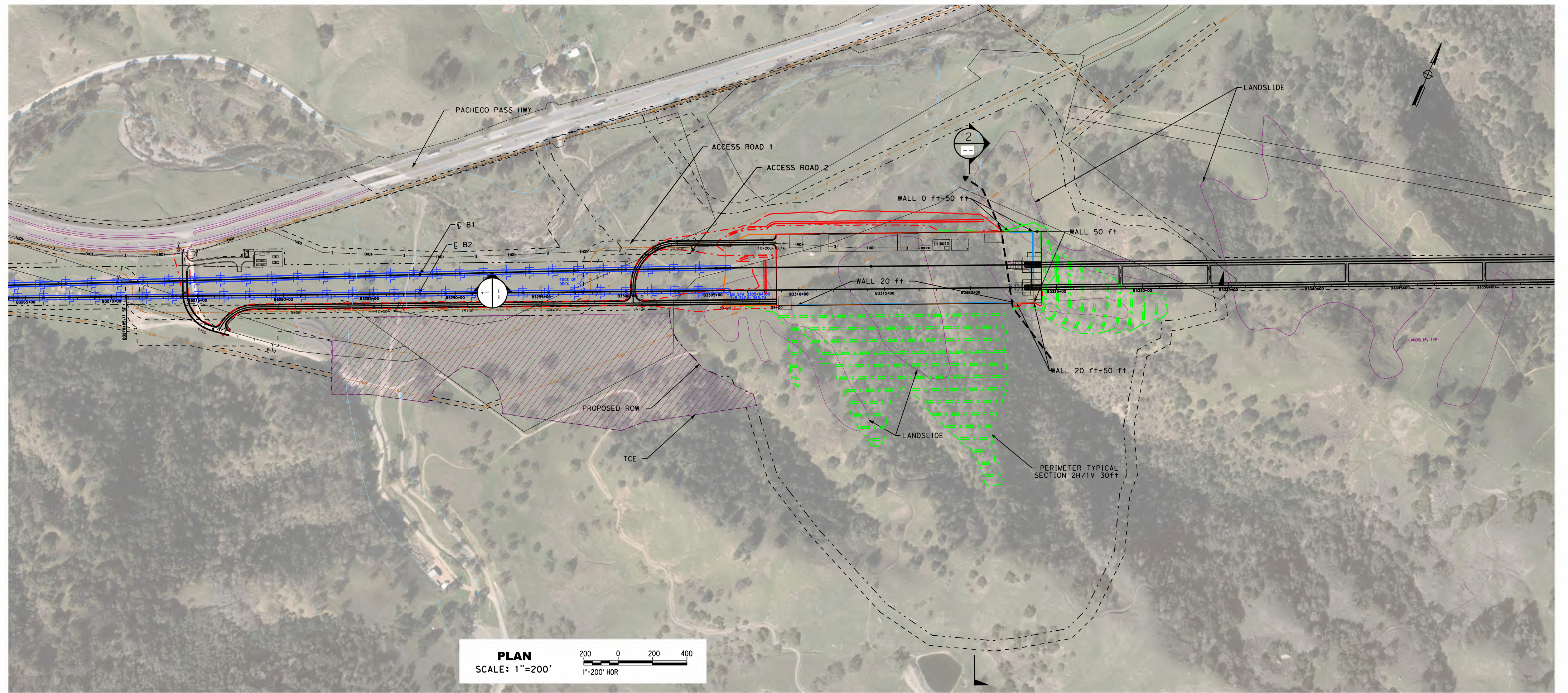
10 CROSS SECTION 4400+00
SCALE 1"=50'



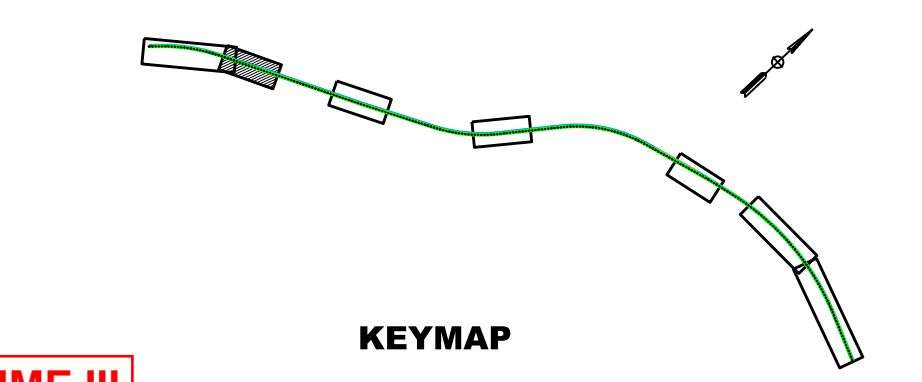
**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 141 OF 218**



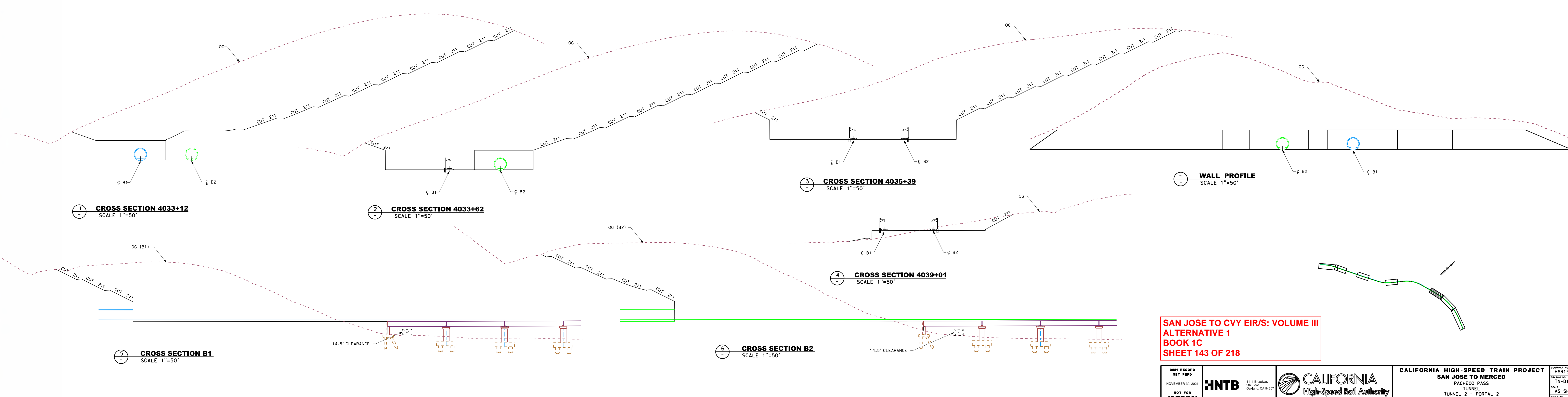
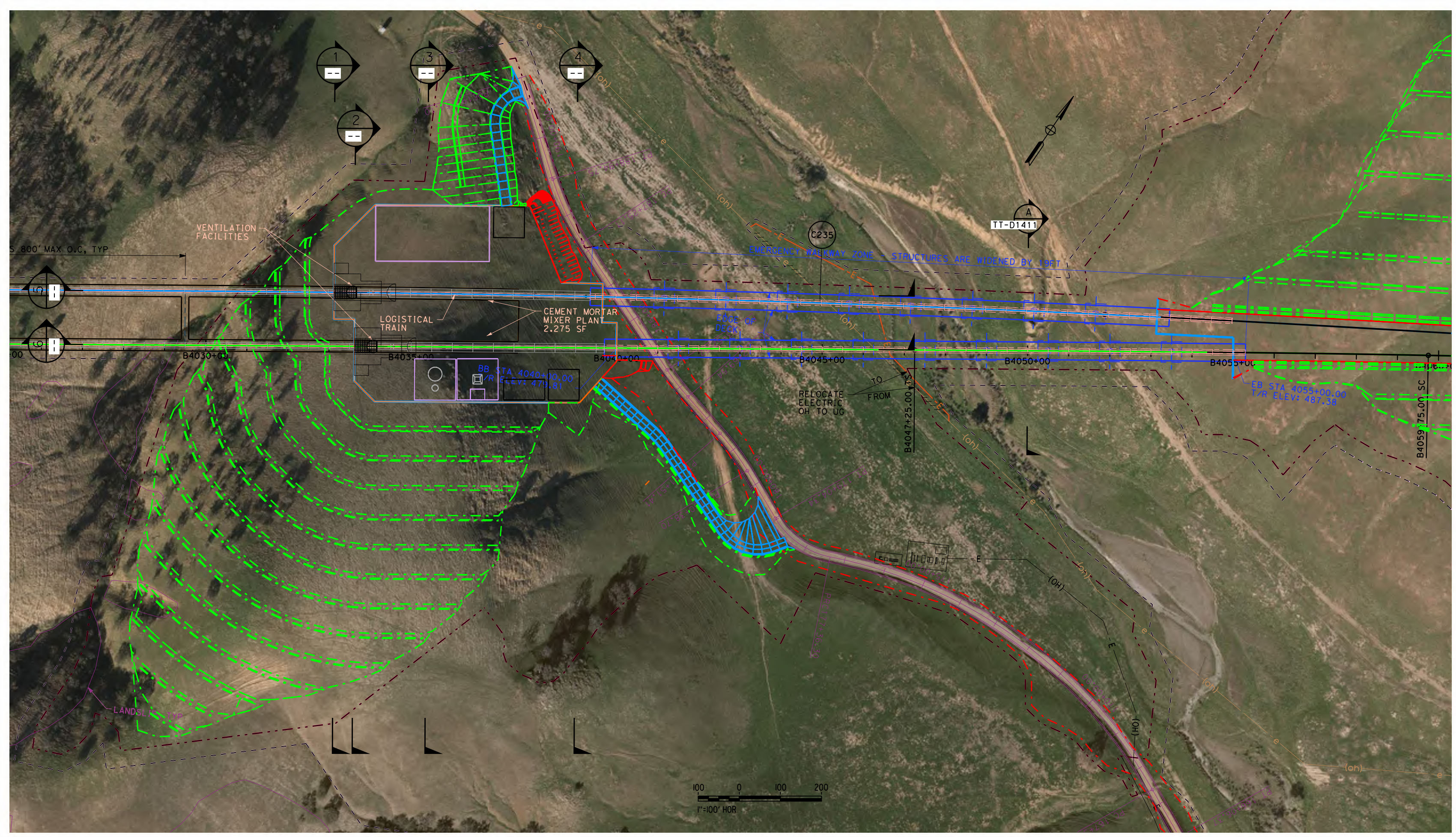
2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION		1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL GRADING DETAIL	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1413 SCALE AS SHOWN SHEET NO.
---	--	---	--	---	--



**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 142 OF 218**



2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL TUNNEL 2 - PORTAL 1 SECTIONS	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1414 SCALE AS SHOWN SHEET NO.
---	--	--	--	--



SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 1
BOOK 1C
SHEET 143 OF 218

2021 RECORD SET PERP NOVEMBER 30, 2021 NOT FOR CONSTRUCTION	HNTB 1111 Broadway 9th Floor Oakland, CA 94607		CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED PACHECO PASS TUNNEL TUNNEL 2 - PORTAL 2 APPROACH 1	CONTRACT NO. HSR15-34 DRAWING NO. TN-D1415 SCALE AS SHOWN SHEET NO.
---	--	--	--	--

