California High-Speed Rail Authority

Bakersfield to Palmdale

REFINED CESAR CHAVEZ NATIONAL MONUMENT (CCNM) DESIGN OPTION
RECORD SET PEPD
DESIGN SUBMISSION
January 2021

CALIFORNIA High-Speed Rail Authority

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

GENERAL SHEETS

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
1		REFINED CCNM DESIGN OPTION - COVER SHEET
2	GE-B0102	REFINED CCNM DESIGN OPTION - GENERAL - INDEX OF DRAWING - SHEET 1 OF 3
3	GE-B0103	REFINED CCNM DESIGN OPTION - GENERAL - INDEX OF DRAWING - SHEET 2 OF 3
4	GE-B0104	REFINED CCNM DESIGN OPTION - GENERAL - INDEX OF DRAWING - SHEET 3 OF 3
5	GE-B0105	REFINED CCNM DESIGN OPTION - GENERAL - ABBREVIATIONS - SHEET 1 OF 3
6	GE-B0106	REFINED CCNM DESIGN OPTION - GENERAL - ABBREVIATIONS - SHEET 2 OF 3
7	GE-B0107	REFINED CCNM DESIGN OPTION - GENERAL - ABBREVIATIONS - SHEET 3 OF 3

ALIGNMENT

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
8	TT-B0201	REFINED CCNM DESIGN OPTION - TRACK GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES
9	TT-B0202	REFINED CCNM DESIGN OPTION - TRACK GENERAL - HORIZONTAL ALIGNMENT DATA TABLE
10	TT-B3201	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 1 OF 10
11	TT-B3202	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 2 OF 10
12	TT-B3203	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 3 OF 10
13	TT-B3204	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 4 OF 10
14	TT-B3205	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 5 OF 10
15	TT-B3206	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 6 OF 10
16	TT-B3207	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 7 OF 10
17	TT-B3208	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 8 OF 10
18	TT-B3209	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 9 OF 10
19	TT-B3210	REFINED CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 10 OF 10
20	TT-C6201	REFINED CCNM DESIGN OPTION - TRACK GENERAL - KEY MAP
21	TT-D1401	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18275+00 TO 18325+00 - PLAN AND PROFILE
22	TT-D1402	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18325+00 TO 18375+00 - PLAN AND PROFILE
23	TT-D1403	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18375+00 TO 18425+00 - PLAN AND PROFILE
24	TT-D1404	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18425+00 TO 18475+00 - PLAN AND PROFILE
25	TT-D1405	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18475+00 TO 18525+00 - PLAN AND PROFILE
26	TT-D1406	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18525+00 TO 18575+00 - PLAN AND PROFILE
27	TT-D1407	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18575+00 TO 18625+00 - PLAN AND PROFILE
28	TT-D1408	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18625+00 TO 18675+00 - PLAN AND PROFILE
29	TT-D1409	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18675+00 TO 18725+00 - PLAN AND PROFILE
30	TT-D1410	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18725+00 TO 18775+00 - PLAN AND PROFILE
31	TT-D1411	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18775+00 TO 18825+00 - PLAN AND PROFILE
32	TT-D1412	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18825+00 TO 18875+00 - PLAN AND PROFILE
33	TT-D1413	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18875+00 TO 18925+00 - PLAN AND PROFILE
34	TT-D1414	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18925+00 TO 18975+00 - PLAN AND PROFILE
35	TT-D1415	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18975+00 TO 19025+00 - PLAN AND PROFILE
36	TT-D1416	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 19025+00 TO 19075+00 - PLAN AND PROFILE
37	TT-D1417	REFINED CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 19075+00 TO 19115+00 - PLAN AND PROFILE

ROADWAY

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
38	CV-R0101	REFINED CCNM DESIGN OPTION - ROADWAY GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES
39	CV-R0102	REFINED CCNM DESIGN OPTION - ROADWAY GENERAL - TYPICAL SECTIONS - SHEET 1 OF 2
40	CV-R0103	REFINED CCNM DESIGN OPTION - ROADWAY GENERAL - TYPICAL SECTIONS - SHEET 2 OF 2
41	CV-R0104	REFINED CCNM DESIGN OPTION - ROADWAY GENERAL - KEY MAP
42	CV-R1601	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18457" - HORIZONTAL ALIGNMENT DATA TABLE
43	CV-R1602	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18457" - PLAN AND PROFILE
44	CV-R1603A	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18472" - PLAN AND PROFILE
45	CV-R1603B	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18487" - PLAN AND PROFILE
46	CV-R1604	REFINED CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18492" - PLAN AND PROFILE
47	CV-R1605	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18507" - HORIZONTAL ALIGNMENT DATA TABLE
48	CV-R1606	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18507" - PLAN AND PROFILE - SHEET 1 OF 2
49	CV-R1607	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18507" - PLAN AND PROFILE - SHEET 2 OF 2

ROADWAY

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
50	CV-R1608	REFINED CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18567" - PLAN AND PROFILE
51	CV-R1609	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18601" - HORIZONTAL ALIGNMENT DATA TABLE
52	CV-R1610	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18601" - PLAN AND PROFILE - SHEET 1 OF 2
53	CV-R1611	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18601" - PLAN AND PROFILE - SHEET 2 OF 2
54	CV-R1612	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18580" - PLAN AND PROFILE
55	CV-R1613	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18580_PS" & "18594" - PLAN AND PROFILE
56	CV-R1614	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18607" - PLAN AND PROFILE
57	CV-R1615	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18739" - PLAN AND PROFILE
58	CV-R1616	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18745" - PLAN AND PROFILE
59	CV-R1617	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18920" - PLAN AND PROFILE - SHEET 1 OF 3
60	CV-R1618	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18920" - PLAN AND PROFILE - SHEET 2 OF 3
61	CV-R1619	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18920" - PLAN AND PROFILE - SHEET 3 OF 3
62	CV-R1620A	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "19013" - PLAN AND PROFILE
63	CV-R1620B	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "19063TP" - PLAN AND PROFILE
64	CV-R1620C	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "19065" - PLAN AND PROFILE
65	CV-R1620D	REFINED CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "19090" - PLAN AND PROFILE
66	CV-R1621	REFINED CCNM DESIGN OPTION - ROADWAY - SR 58 REALIGNMENT - PLAN AND PROFILE - SHEET 1 OF 4
67	CV-R1622	REFINED CCNM DESIGN OPTION - ROADWAY - SR 58 REALIGNMENT - PLAN AND PROFILE - SHEET 2 OF 4
68	CV-R1623	REFINED CCNM DESIGN OPTION - ROADWAY - SR 58 REALIGNMENT - PLAN AND PROFILE - SHEET 3 OF 4
69	CV-R1624	REFINED CCNM DESIGN OPTION - ROADWAY - SR 58 REALIGNMENT - PLAN AND PROFILE - SHEET 4 OF 4
70	CV-R1625	REFINED CCNM DESIGN OPTION - ROADWAY - SR 58 REALIGNMENT OFF-RAMP - PLAN AND PROFILE
71	CV-R1626	REFINED CCNM DESIGN OPTION - ROADWAY - SR 58 REALIGNMENT ON-RAMP - PLAN AND PROFILE
72	CV-R1627	REFINED CCNM DESIGN OPTION - ROADWAY - CHALLENGER DRIVE AND DENNISON ROAD - PLAN AND PROFILE
73	CV-R1628	REFINED CCNM DESIGN OPTION - ROADWAY - BURNETT ROAD - PLAN AND PROFILE
74	CV-R1629	REFINED CCNM DESIGN OPTION - ROADWAY - BURNETT ROAD AND ARABIAN DRIVE - PLAN AND PROFILE

CONSTRUCTION SEQUENCING

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
75	CV-I0101	REFINED CCNM DESIGN OPTION - CONSTRUCTION SEQUENCING - GENERAL - NOTES AND LEGEND
76	CV-I0102	REFINED CCNM DESIGN OPTION - CONSTRUCTION SEQUENCING - GENERAL - KEY MAP
77	CV-I1201	REFINED CCNM DESIGN OPTION - CONSTRUCTION SEQUENCING - SHEET 1 OF 2
78	CV-I1202	REFINED CCNM DESIGN OPTION - CONSTRUCTION SEQUENCING - SHEET 2 OF 2

GRADING, DRAINAGE AND RETAINING WALLS

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
79	CV-G0101	REFINED CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS - GENERAL - LEGEND & GEN. NOTES
80	CV-G0102	REFINED CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS - GENERAL - KEY MAP
81	CV-G1501	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18320+86
82	CV-G1502	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18328+16
83	CV-G1503	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18352+79
84	CV-G1504	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18426+41
85	CV-G1505	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18431+40
86	CV-G1506	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18433+21
87	CV-G1507	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18434+43
88	CV-G1508	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18436+44
89	CV-G1509	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18442+47
90	CV-G1510	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18444+31
91	CV-G1511	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18450+30
92	CV-G1512	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18460+50
93	CV-G1513	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18489+32
94	CV-G1514	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18505+37
95	CV-G1515	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18510+31
96	CV-G1516	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18516+71
97	CV-G1517	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18581+20
98	CV-G1518	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18585+71
99	CV-G1519	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18593+23
100	CV-G1520	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18607+79
101	CV-G1521	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18709+20

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. BAKER
DRAWN BY A. RIVERA
CHECKED BY D. HOLMAN
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GENERAL
INDEX OF DRAWING
SHEET 1 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0102
SCALE NO SCALE
SHEET NO. 2

GRADING, DRAINAGE, AND RETAINING WALLS

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
102	CV-G1522	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18730+51
103	CV-G1523	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18737+13
104	CV-G1524	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18740+09
105	CV-G1526	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18774+51
106	CV-G1527	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18789+73
107	CV-G1528	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18818+02
108	CV-G1529	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18890+45
109	CV-G1530	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18890+44
110	CV-G1531	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18901+81
111	CV-G1532	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18913+23
112	CV-G1533	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18925+73
113	CV-G1534	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18925+73
114	CV-G1535	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 18933+32
115	CV-G1536	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 19030+40
116	CV-G1537	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - OFFSITE CULVERT PROFILE - STA 19070+72
117	CV-G4701	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18295+00 to 18320+00
118	CV-G4702	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18320+00 to 18345+00
119	CV-G4703	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18345+00 to 18370+00
120	CV-G4704	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18370+00 to 18395+00
121	CV-G4705	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18395+00 to 18420+00
122	CV-G4706	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18420+00 to 18445+00
123	CV-G4707	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18445+00 to 18470+00
124	CV-G4708	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18470+00 to 18495+00
125	CV-G4709	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18495+00 to 18520+00
126	CV-G4710	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18520+00 to 18545+00
127	CV-G4711	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18545+00 to 18570+00
128	CV-G4712	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18570+00 to 18595+00
129	CV-G4713	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18595+00 to 18620+00
130	CV-G4714	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18620+00 to 18645+00
131	CV-G4715	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18645+00 to 18670+00
132	CV-G4716	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18670+00 to 18695+00
133	CV-G4717	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18695+00 to 18720+00
134	CV-G4718	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18720+00 to 18745+00
135	CV-G4719	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18745+00 to 18770+00
136	CV-G4720	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18770+00 to 18795+00
137	CV-G4721	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18795+00 to 18820+00
138	CV-G4722	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18820+00 to 18845+00
139	CV-G4723	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18845+00 to 18870+00
140	CV-G4724	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18870+00 to 18895+00
141	CV-G4725	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18895+00 to 18920+00
142	CV-G4726	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18920+00 to 18945+00
143	CV-G4727	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18945+00 to 18970+00
144	CV-G4728	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18970+00 to 18995+00
145	CV-G4729	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18995+00 to 19020+00
146	CV-G4730	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 19020+00 to 19045+00
147	CV-G4731	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 19045+00 to 19070+00
148	CV-G4732	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 19070+00 to 19095+00
149	CV-G4733	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 19095+00 to 19120+00
150	CV-G4734	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18457"
151	CV-G4735	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18507"
152	CV-G4736	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18507"
153	CV-G4737	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18601"

GRADING, DRAINAGE AND RETAINING WALLS

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
154	CV-G4738	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18601"
155	CV-G4739	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18601"
156	CV-G4740	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18705+00 TO 18730+00
157	CV-G4741	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18710+00 TO 18735+00
158	CV-G4742	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18735+00 TO 18755+00
159	CV-G4743	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18795+00 TO 18820+00
160	CV-G4744	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18820+00 TO 18845+00
161	CV-G4745	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18875+00 TO 18905+00
162	CV-G4746	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18905+00 TO 18930+00
163	CV-G4747	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 18930+00 TO 18944+00
164	CV-G4748	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18920"
165	CV-G4749	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18920"
166	CV-G4750	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - ACCESS ROAD "18920"
167	CV-G4751	REFINED CCNM DESIGN OPTION - GRADING AND DRAINAGE - PLAN - STA 19015+00 TO 19025+00
168	ST-G1201	REFINED CCNM DESIGN OPTION - RETAINING WALL - 18335 - PLAN AND PROFILE
169	ST-G1202	REFINED CCNM DESIGN OPTION - RETAINING WALL - 18430 - PLAN AND PROFILE
170	ST-G1203	REFINED CCNM DESIGN OPTION - RETAINING WALL - 18450 - PLAN AND PROFILE
171	ST-G1204	REFINED CCNM DESIGN OPTION - RETAINING WALL - 18603 - PLAN AND PROFILE
172	ST-G1205	REFINED CCNM DESIGN OPTION - RETAINING WALL - 18850 - PLAN AND PROFILE
173	ST-G1206	REFINED CCNM DESIGN OPTION - RETAINING WALL - 18884 - PLAN AND PROFILE
174	ST-G1207	REFINED CCNM DESIGN OPTION - RETAINING WALL - 19087 AND 19088 - PLAN AND PROFILE

TRACK AND ROADWAY STRUCTURES

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
175	ST-B0101	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - GENERAL NOTES AND LEGEND
176	ST-B0102	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - KEY MAP
177	ST-B3101	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - TYPICAL SECTIONS - SHEET 1 OF 7
178	ST-B3102	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - TYPICAL SECTIONS - SHEET 2 OF 7
179	ST-B3103	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - TYPICAL SECTIONS - SHEET 3 OF 7
180	ST-B3104	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - TYPICAL SECTIONS - SHEET 4 OF 7
181	ST-B3105	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - TYPICAL SECTIONS - SHEET 5 OF 7
182	ST-B3106	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - TYPICAL SECTIONS - SHEET 6 OF 7
183	ST-B3107	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - TYPICAL SECTIONS - SHEET 7 OF 7
184	ST-J1301	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18465+50 to 18475+65 - PLAN AND ELEV
185	ST-J1302	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18465+50 to 18475+65 - PLAN AND ELEV
186	ST-J1303	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18491+62 to 18493+45 - PLAN AND ELEV
187	ST-J1304	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18597+24 to 18603+56 - PLAN AND ELEV
188	ST-J1305	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18744+33 to 18746+98 - PLAN AND ELEV
189	ST-J1306	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18838+59 to 18884+25 - PLAN AND ELEV
190	ST-J1307	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18838+59 to 18884+25 - PLAN AND ELEV
191	ST-J1308	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18838+59 to 18884+25 - PLAN AND ELEV
192	ST-J1309	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18838+59 to 18884+25 - PLAN AND ELEV
193	ST-J1310	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18838+59 to 18884+25 - PLAN AND ELEV
194	ST-J1311	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18838+59 to 18884+25 - PLAN AND ELEV
195	ST-J1311A	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 19076+14 to 19078+14 - PLAN AND ELEV
196	ST-J1311B	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 19075+84 to 19077+84 - PLAN AND ELEV
197	ST-J1312	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - SOUTH VIADUCT STATION 19097+53 to 19097+39.69 ALT 1,2,3,5 - PLAN AND ELEVATION
198	ST-J1313	REFINED CCNM DESIGN OPTION - TRACK STRUCTURES - NORTH VIADUCT STATION 19099+22 to 19097+68.69 ALT 1,2,3,5 - PLAN AND ELEVATION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. BAKER
DRAWN BY A. RIVERA
CHECKED BY D. HOLMAN
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GENERAL
INDEX OF DRAWING
SHEET 2 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0103
SCALE NO SCALE
SHEET NO. 3

TRACTION POWER

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
199	TP-B0201	REFINED CCNM DESIGN OPTION - TRACTION POWER GENERAL - LEGEND
200	TP-B0202	REFINED CCNM DESIGN OPTION - TRACTION POWER GENERAL - KEY MAP
201	TP-B3201	REFINED CCNM DESIGN OPTION - TRACTION POWER GENERAL - TYPICAL SECTIONS - SHEET 1 OF 2
202	TP-B3202	REFINED CCNM DESIGN OPTION - TRACTION POWER GENERAL - TYPICAL SECTIONS - SHEET 2 OF 2
203	TP-D0201	REFINED CCNM DESIGN OPTION - TRACTION POWER FACILITY LAYOUT
204	TP-E4201	REFINED CCNM DESIGN OPTION - TYPICAL LAYOUT - TRACTION POWER SUBSTATION WITH 2 HIGH VOLTAGE TRANSFORMERS
205	TP-E4202	REFINED CCNM DESIGN OPTION - TYPICAL LAYOUT - PARALLELING STATION WITH 2 AUTOTRANSFORMERS
206	TP-04401	REFINED CCNM DESIGN OPTION - TRACTION POWER SITE PLAN - PROPOSED PARALLELING STATION 3
207	TP-04402	REFINED CCNM DESIGN OPTION - TRACTION POWER SITE PLAN - PROPOSED PARALLELING STATION 4
208	TP-04403	REFINED CCNM DESIGN OPTION - TRACTION POWER SITE PLAN - PROPOSED TPSS #15

AUTOMATIC TRAIN CONTROL

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
209	TC-B0201	REFINED CCNM DESIGN OPTION - AUTOMATIC TRAIN CONTROL GENERAL - ABBREVIATIONS AND LEGEND
210	TC-B0202	REFINED CCNM DESIGN OPTION - AUTOMATIC TRAIN CONTROL GENERAL - KEY MAP
211	TC-B0203	REFINED CCNM DESIGN OPTION - AUTOMATIC TRAIN CONTROL LAYOUT
212	TC-F4201	REFINED CCNM DESIGN OPTION - AUTOMATIC TRAIN CONTROL SITE PLAN - SITE @ 18749+68

TUNNEL

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
213	TN-B0201	REFINED CCNM DESIGN OPTION - TUNNEL LEGEND
214	TN-B0202	REFINED CCNM DESIGN OPTION - KEY MAP - ALIGNMENT TUNNELS
215	TN-C1101	REFINED CCNM DESIGN OPTION - TUNNEL PROFILE - TUNNEL 4 - STA 18325+00 TO STA 18425+00
216	TN-C1102	REFINED CCNM DESIGN OPTION - TUNNEL PROFILE - TUNNEL 5 - STA 18520+00 TO STA 18570+00
217	TN-C1103	REFINED CCNM DESIGN OPTION - TUNNEL PROFILE - TUNNEL 6 - STA 18575+00 TO STA 18625+00
218	TN-C1104	REFINED CCNM DESIGN OPTION - TUNNEL PROFILE - TUNNEL 6 - STA 18625+00 TO STA 18675+00
219	TN-C1105	REFINED CCNM DESIGN OPTION - TUNNEL PROFILE - TUNNEL 6 - STA 18675+00 TO STA 18725+00
220	TN-C1106	REFINED CCNM DESIGN OPTION - TUNNEL PROFILE - TUNNEL 7 - STA 18925+00 TO STA 19025+00
221	TN-C4401	REFINED CCNM DESIGN OPTION - TUNNEL 4 - STA 18325+00 TO STA 18375+00
222	TN-C4402	REFINED CCNM DESIGN OPTION - TUNNEL 4 - STA 18375+00 TO STA 18425+00
223	TN-C4403	REFINED CCNM DESIGN OPTION - TUNNEL 4 - STA 18425+00 TO STA 18475+00
224	TN-C4404	REFINED CCNM DESIGN OPTION - TUNNEL 5 - STA 18475+00 TO STA 18525+00
225	TN-C4405	REFINED CCNM DESIGN OPTION - TUNNEL 5 - STA 18525+00 TO STA 18575+00
226	TN-C4406	REFINED CCNM DESIGN OPTION - TUNNEL 6 - STA 18575+00 TO STA 18625+00
227	TN-C4407	REFINED CCNM DESIGN OPTION - TUNNEL 6 - STA 18625+00 TO STA 18675+00
228	TN-C4408	REFINED CCNM DESIGN OPTION - TUNNEL 6 - STA 18675+00 TO STA 18725+00
229	TN-C4409	REFINED CCNM DESIGN OPTION - TUNNEL 7 - STA 18875+00 TO STA 18925+00
230	TN-C4410	REFINED CCNM DESIGN OPTION - TUNNEL 7 - STA 18925+00 TO STA 18975+00
231	TN-C4411	REFINED CCNM DESIGN OPTION - TUNNEL 7 - STA 18975+00 TO STA 19025+00
232	TN-C4412	REFINED CCNM DESIGN OPTION - TUNNEL 7 - STA 19025+00 TO STA 19075+00
233	TN-D3101	REFINED CCNM DESIGN OPTION - TUNNEL DRILL AND BLAST METHOD - SINGLE TUNNEL - CLEARANCE DIAGRAM
234	TN-D3102	REFINED CCNM DESIGN OPTION - TUNNEL DRILL AND BLAST METHOD - SINGLE TUNNEL - INITIAL SUPPORT
235	TN-D3103	REFINED CCNM DESIGN OPTION - TUNNEL CUT AND COVER BOX - CLEARANCE DIAGRAM - TANGENT TRACK
236	TN-D3104	REFINED CCNM DESIGN OPTION - TUNNEL CUT AND COVER BOX - CLEARANCE DIAGRAM - SUPER ELEVATED TRACK
237	TN-D3105	REFINED CCNM DESIGN OPTION - TWIN TUNNEL DRILL AND BLAST METHOD - CLEARANCE DIAGRAM - TANGENT TRACK
238	TN-D3106	REFINED CCNM DESIGN OPTION - TWIN TUNNEL DRILL AND BLAST METHOD - CLEARANCE DIAGRAM - SUPER ELEV TRACK
239	TN-D3107	REFINED CCNM DESIGN OPTION - TWIN TUNNEL DRILL AND BLAST METHOD - INITIAL SUPPORT
240	TN-D3108	REFINED CCNM DESIGN OPTION - TUNNEL TWIN TBM BORED TUNNELS - CLEARANCE DIAGRAM - TANGENT TRACK
241	TN-D3109	REFINED CCNM DESIGN OPTION - TUNNEL TWIN TBM BORED TUNNELS - CLEARANCE DIAGRAM - SUPER ELEV TRACK
242	TN-D3110	REFINED CCNM DESIGN OPTION - TUNNEL TWIN TBM BORED TUNNELS - INNITIAL SUPPORT

UTILITIES

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
243	UT-B0101	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - ABBREVIATIONS AND LEGEND
244	UT-B0102	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - GENERAL NOTES AND UTILITY OWNERS
245	UT-B0103	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - UTILITY CROSSING DETAIL
246	UT-B0104	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - KEY MAP
247	UT-C4701	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18307+67 TO 18320+00 - PLAN
248	UT-C4702	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18320+00 TO 18345+00 - PLAN
249	UT-C4703	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18345+00 TO 18370+00 - PLAN
250	UT-C4704	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18370+00 TO 18395+00 - PLAN
251	UT-C4705	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18395+00 TO 18420+00 - PLAN
252	UT-C4706	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18420+00 TO 18445+00 - PLAN
253	UT-C4707	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18445+00 TO 18470+00 - PLAN
254	UT-C4708	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18470+00 TO 18495+00 - PLAN
255	UT-C4709	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18495+00 TO 18520+00 - PLAN
256	UT-C4710	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18520+00 TO 18545+00 - PLAN
257	UT-C4711	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18545+00 TO 18570+00 - PLAN
258	UT-C4712	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18570+00 TO 18595+00 - PLAN
259	UT-C4713	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18595+00 TO 18620+00 - PLAN
260	UT-C4714	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18620+00 TO 18645+00 - PLAN
261	UT-C4715	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18645+00 TO 18670+00 - PLAN
262	UT-C4716	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18670+00 TO 18695+00 - PLAN
263	UT-C4717	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18695+00 TO 18720+00 - PLAN
264	UT-C4718	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18720+00 TO 18745+00 - PLAN
265	UT-C4719	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18745+00 TO 18770+00 - PLAN
266	UT-C4720	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18770+00 TO 18795+00 - PLAN
267	UT-C4721	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18795+00 TO 18820+00 - PLAN
268	UT-C4722	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18820+00 TO 18845+00 - PLAN
269	UT-C4723	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18845+00 TO 18870+00 - PLAN
270	UT-C4724	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18870+00 TO 18895+00 - PLAN
271	UT-C4725	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18895+00 TO 18920+00 - PLAN
272	UT-C4726	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18920+00 TO 18945+00 - PLAN
273	UT-C4727	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18945+00 TO 18970+00 - PLAN
274	UT-C4728	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18970+00 TO 18995+00 - PLAN
275	UT-C4729	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18995+00 TO 19020+00 - PLAN
276	UT-C4730	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 19020+00 TO 19045+00 - PLAN
277	UT-C4731	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 19045+00 TO 19070+00 - PLAN
278	UT-C4732	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 19070+00 TO 19095+00 - PLAN
279	UT-C4733	REFINED CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 19095+00 TO 19104+40 - PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. BAKER
DRAWN BY A. RIVERA
CHECKED BY D. HOLMAN
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GENERAL
INDEX OF DRAWING
SHEET 3 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0104
SCALE NO SCALE
SHEET NO. 4

A

AB	AGGREGATE BASE
ABBC	ASBESTOS BONDED BITUMINOUS COATED
ABM	AIR-BLOWN MORTAR
ABN	ABANDON
ABUT	ABUTMENT
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACP	ASBESTOS CEMENT PIPE
ADL	ADDED DEAD LOAD
ADJ	ADJUST
AFES	ALTERNATIVE FLARED END SECTION
AHD	AHEAD
ALT	ALTERNATE
AM	TIME FROM MIDNIGHT TO NOON
AP	ALTERNATIVE PIPE
APC	ALTERNATIVE PIPE CULVERT
APPROX	APPROXIMATE
APU	ALTERNATIVE PIPE UNDERDRAIN
ARS	ACCELERATION RESPONSE SPECTRUM
AR	ACCESS RESTRICTION
AS	AGGREGATE SUBBASE
ASRP	ALUMINUM SPIRAL RIB PIPE
ASSY	ASSEMBLY
ATC	AUTOMATIC TRAIN CONTROL
ATPB	ASPHALT TREATED PERMEABLE BASE
ATPM	ASPHALT TREATED PERMEABLE MATERIAL
AVE	AVENUE
AVG	AVERAGE
@	AT

B

BAGR	BRIDGE APPROACH GUARD RAILING
BB	BEGINNING OF BRIDGE
BC	BEGIN HORIZONTAL CURVE
BCC	BALANCED CANTILEVER CONSTRUCTION
BCR	BEGIN CURB RETURN
BEG	BEGIN
BIT CTD	BITUMINOUS COATED
BK	BACK
BKF	BACKFILL
BLDG	BUILDING
BLM	BRIDGE-LOG MILE
BLVD	BOULEVARD
BM	BENCH MARK
BND	BOUND
BNSF	BURLINGTON NORTH & SANTA FE
BOT	BOTTOM
BR	BRIDGE
BRG	BEARING
BTU	BRITISH THERMAL UNIT
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE

C

C	CUT
CAA	CABLE ANCHOR ASSEMBLY
CAP	CORRUGATED ALUMINUM PIPE
CAPA	CORRUGATED ALUMINUM PIPE ARCH
CAS	CONSTRUCTION AREA SIGN
CB	CONCRETE BARRIER
CBW	CONCRETE BLOCK WALL
C-C	CENTER TO CENTER
CHSRA	CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST	CALIFORNIA HIGH SPEED TRAIN
CHSR	CALIFORNIA HIGH SPEED RAIL
CG	CENTER OF GRAVITY
CHNL	CHANNEL
CI	CAST IRON
CIDH	CAST-IN-DRILLED-HOLE
CIP	CAST-IN-PLACE, CAST IRON PIPE
CIPCP	CAST IN PLACE CONCRETE PIPE
CISS	CAST-IN-STEEL-SHELL
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE, CLASS
CL2	CLASS 2
CL-6	CHAIN LINK FENCE (6 FT)
CLR	CLEAR, CLEARANCE
CM	CORRUGATED METAL
CMP	CORRUGATED METAL PIPE
CO	COUNTY
COL	COLUMN
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR
CONST	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	CANDLEPOWER
CR	CREEK
CRCP	CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP	CONCRETED ROCK SLOPE PROTECTION
CS	CURVE TO SPIRAL
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CTB	CEMENT TREATED BASE
CTPB	CEMENT TREATED PERMEABLE BASE
CTPM	CEMENT TREATED PERMEABLE MATERIAL
CTRS	CENTERS
CVFPB	CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV	CULVERT
℄	CENTERLINE

D

D	DEPTH
D&B	DRILL AND BLAST
DD	DOWNDRAIN, DIRECTIVE DRILLING
DBL	DOUBLE
DEG	DEGREE
DEL	DELINEATOR
DET	DETAIL, DETOUR
DF	DOUGLAS FIR
DI	DRAINAGE INLET, DROP INLET
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIST	DISTANCE, DISTRICT
DMBB	DOUBLE METAL BEAM BARRIER
DR	DRIVE
DS	DESIGN SPEED
DTBB	DOUBLE THRIE BEAM BARRIER
DWG	DRAWING
DWP	DEPARTMENT OF WATER AND POWER
DWY	DRIVEWAY

E

E	EAST, EASTING, ELECTRICAL
EA	ACTUAL SUPERELEVATION
EU	UNBALANCED SUPERELEVATION
EASE	EASEMENT
EB	END OF BRIDGE, EASTBOUND
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
ED	EDGE DRAIN
EDC	EDGE DRAIN CLEANOUT
EDO	EDGE DRAIN OUTLET
EDV	EDGE DRAIN VENT
ELEC	ELECTROLIER
ELECT	ELECTRIC
ELEV	ELEVATION
EMB	EMBANKMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EP	EDGE OF PAVEMENT
EQ	EQUATION, EQUAL
ES	EDGE OF SHOULDER
ETW	EDGE OF TRAVELED WAY
EVC	END VERTICAL CURVE
EW	ENDWALL
EXC	EXCAVATION
EXIST, EX.	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXWY	EXPRESSWAY
EXT	EXTERIOR

F

F	FILL, FIXED BEARING
F & C	FRAME AND COVER
F & G	FRAME AND GRATE
FB	FLOOR BEAM
F-B	FRESNO TO BAKERSFIELD
FDN	FOUNDATION
FEBT	FACING EASTBOUND TRAFFIC
FES	FLARED END SECTION
FF	FILTER FABRIC
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FL	FLOW LINE
FLS	FIRE AND LIFE SAFETY
FNBT	FACING NORTHBOUND TRAFFIC
FOC	FACE OF CONCRETE
FR RD	FRONTAGE ROAD
FS	FAR SIDE, FINISHED SURFACE
FSBT	FACING SOUTHBOUND TRAFFIC
FT	FOOT, FEET
FTG	FOOTING
FWBT	FACING WESTBOUND TRAFFIC
FWY	FREEWAY
FPLM	FULL SPAN PRECAST LAUNCHING METHOD

G

G	ACCELERATION DUE TO GRAVITY, NATURAL GAS
GA	GAGE
GALV	GALVANIZED
GP	GRADING PLANE
GR	GUARD RAILING
GSP	GALVANIZED STEEL PIPE
GTR	GUTTER

H

H	HEIGHT
HR	HOUR
HD	HORIZONTAL DRAIN
HDC	HIGH DESERT CORRIDOR
HDWL	HEADWALL
HEX HD	HEXAGONAL HEAD
HMA	HOT MIXED ASPHALT
HORIZ	HORIZONTAL
HP	HINGE POINT, HORSEPOWER
HPS	HIGH PERFORMANCE STEEL
HS	HIGH STRENGTH
HST	HIGH SPEED TRAIN
HSR	HIGH SPEED RAIL
HV	HIGH VOLTAGE
HW	HEADWALL, HIGH WATER
HWM	HIGH WATER MARK
HWY	HIGHWAY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. BAKER
DRAWN BY A. RIVERA
CHECKED BY D. HOLMAN
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GENERAL
ABBREVIATIONS
SHEET 1 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0105
SCALE NO SCALE
SHEET NO. 5

I

IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH, INCHES
INT	INTERIOR
INV	INVERT
IRR	IRRIGATION

J

JCT	JUNCTION
JP	JOINT POLE
JPCP	JOINTED PLAIN CONCRETE PAVEMENT
JS	JUNCTION STRUCTURE
JT	JOINT

K

K	DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L	LENGTH
LAT	LATITUDE
LCB	LEAN CONCRETE BASE
LGA	LOCALLY GENERATED ALTERNATIVE
LID	LOW IMPACT DEVELOPMENT BEST MANAGEMENT PRACTICES
LMF	LIGHT MAINTENANCE FACILITY
LN	LANE
LOC	LOCATION
LOL	LAYOUT LINE
LONG	LONGITUDE
LONGIT	LONGITUDINAL
LS	LENGTH OF SPIRAL
LC	LENGTH OF CURVE
LT	LEFT
LV	LOW VOLTAGE

M

MAINT	MAINTENANCE
MAX	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
MED	MEDIAN
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MISC I & S	MISCELLANEOUS IRON AND STEEL
MKR	MARKER
M/L	MAIN LINE (RAILWAY)
MOD	MODIFIED, MODIFY
MON	MONUMENT
MOIF	MAINTENANCE OF INFRASTRUCTURE FACILITY
MOIS	MAINTENANCE OF INFRASTRUCTURE SIDING
MP	METAL PLATE

M CONTINUED

MPGR	METAL PLATE GUARD RAILING
MPH	MILES PER HOUR
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EARTH
MTL	MATERIAL
MSS	MOVING SCAFFOLDING SYSTEM

N

N	NORTH, NORTHING
NB	NORTHBOUND
NF	NEGATIVE FEEDER
NO.	NUMBER (MUST HAVE PERIOD)
NOS.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NTS	NOT TO SCALE
N/A	NOT APPLICABLE

O

OBLR	OBLITERATE
OC	OVERCROSSING
OCS	OVERHEAD CONTACT SYSTEM
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OH	OVERHEAD
O-O	OUT TO OUT
OPP	OPPOSITE
OSS	ONSITE STORMWATER DETENTION

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX, PALMDALE TO BURBANK
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PED	PEDESTRIAN
PED OC	PEDESTRIAN OVERCROSSING
PED UC	PEDESTRIAN UNDERCROSSING
PERM MTL	PERMEABLE MATERIAL
PG	PROFILE GRADE
PG&E	PACIFIC GAS AND ELECTRIC
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
℄,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH

P CONTINUED

POB	POINT OF BEGINNING
POC	POINT OF HORIZONTAL CURVE
POE	POINT OF ENDING
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPEF	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PROP	PROPOSED
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED, PARALLELING STATION
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PTEF	PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT
PTSW	POINT OF TRACK SWITCH
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVP	MAINTENANCE VEHICLE PULLOUT

Q

QTY	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
REINF	REINFORCED, REINFORCEMENT, REINFORCING
REL	RELOCATE
REPL	REPLACEMENT
RET	RETAINING
REV	REVISED
RDWY	ROADWAY
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
RTE	ROUTE
RW	REDWOOD, RETAINING WALL

R CONTINUED

R/W	RIGHT OF WAY
RWY	RAILWAY

S

S	SOUTH, SUPPLEMENT, SLOPE, STATION LINE, SEWER
SAE	STRUCTURE APPROACH EMBANKMENT
SALV	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SPIRAL TO CURVE
SCE	SOUTHERN CALIFORNIA EDISON
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SEC	SECOND
SECT	SECTION
SEP	SEPARATION
SG	SUBGRADE
SHLD	SHOULDER
SHT	SHEET
SIM	SIMILAR
SM	SELECTED MATERIAL
SPEC	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE, SPIRAL TO SPIRAL, SUPPLY STATION
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
SR	STATE ROUTE
ST	STREET, SPIRAL TO TANGENT
STA	STATION
STBB	SINGLE THRIE BEAM BARRIER
STD	STANDARD
STR	STRUCTURE
SRS	STAND ALONE RADIO SITE
SURF	SURFACING
SW	SIDEWALK, SOUND WALL
SWR	SEWER
SWS	SWITCHING STATION
SYM	SYMMETRICAL
S4S	SURFACE 4 SIDES
SJVR	SAN JOAQUIN VALLEY RAILROAD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. BAKER
DRAWN BY A. RIVERA
CHECKED BY D. HOLMAN
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GENERAL
ABBREVIATIONS
SHEET 2 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0106
SCALE NO SCALE
SHEET NO. 6

T

T	SEMI-TANGENT
TAB	TABLET
TAN	TANGENT
TBB	THRIE BEAM BARRIER
TBR	TIMBER
TC	TOP OF CURB, TANGENT TO CURVE
TCB	TRAFFIC CONTROL BOX
TEL	TELEPHONE
TEMP	TEMPORARY
TF	TOP OF FOOTING
TG	TOP OF GRADE
TM	TECHNICAL MEMORANDUM
TOR	TOP OF RAIL
TOT	TOTAL
TP	TRACTION POWER, TUNNEL PORTAL
TPB	TREATED PERMEABLE BASE
TPF	TRACTION POWER FACILITY
TPM	TREATED PERMEABLE MATERIAL
TPS	TRACTION POWER SUPPLY SYSTEM
TPSS	TRACTION POWER SUBSTATION
TRANS	TRANSITION, TRANSVERSE
TS	TRAFFIC SIGNAL, TUBULAR STEEL, TANGENT TO SPIRAL
TW	TOP OF WALL
TYP	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
USFWS	UNITED STATES FISH AND WILDLIFE SERVICE

V

V	VALVE, DESIGN SPEED
VAR	VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIA	VIADUCT
VOL	VOLUME

W

W	WEST, WIDTH, WATER
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WT	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE
W/	WITH

X

X SEC	CROSS SECTION
XING	CROSSING

Y

YR	YEAR
YRS	YEARS

Z

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. BAKER
DRAWN BY A. RIVERA
CHECKED BY D. HOLMAN
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

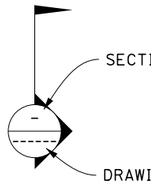
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GENERAL
ABBREVIATIONS
SHEET 3 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0107
SCALE NO SCALE
SHEET NO. 7

LEGEND:

PLAN



XX — CURVE DATA (ALIGNMENTS, ROADWAYS)

XX — CURVE DATA (STRUCTURES)

XX — LINE DATA (ALIGNMENTS, ROADWAYS)

NORTH ARROW

EXIST RIGHT OF WAY

LIMITS OF EXCAVATION (CUT)

LIMITS OF EMBANKMENT (FILL)

? — FAULT ZONE

EXIST CALTRANS RIGHT OF WAY

EXIST RETAINING WALL

PPEF

PROPOSED COLUMN/FOOTING

PROPOSED FENCE

PROPOSED RETAINING WALL

PROPOSED CONCRETE BARRIER

PROPOSED RIGHT OF WAY

PROPOSED TUNNEL

PTEF

SRS — STANDALONE RADIO SITE

A — AUTOMATIC TRAIN CONTROL SYSTEM SITE A

B — AUTOMATIC TRAIN CONTROL SYSTEM SITE B

D — AUTOMATIC TRAIN CONTROL SYSTEM SITE D

PLAN

E — AUTOMATIC TRAIN CONTROL SYSTEM SITE E

TRACK CROSSING PANEL

SS — SUBSTATION

SWS — SWITCHING STATION

PS — PARALLELING STATION

PROFILE

ORIGINAL GROUND

PROPOSED CHSR ELEVATION

STRUCTURAL CLEARANCE ENVELOPE

GENERAL NOTES

1. ROADWAY IMPROVEMENTS SHOWN ON ROADWAY PLANS.
2. TRACK ALIGNMENT CONTROL LINE IS THE CENTERLINE OF THE SB TRACK.
3. TRACK PROFILE SHOWN IS THE TOP OF THE LOW (NON-SUPERELEVATED) RAIL OF THE SB TRACK.
4. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
5. ROW LIMITS SHOWN ARE LIMITS OF PROPERTY TO BE OWNED BY CHSR AUTHORITY.
6. PPEF SHOWN IS LIMIT OF PERMANENT GROUND DISTURBANCE ASSOCIATED WITH THE PROJECT.
7. PTEF SHOWN IS LIMIT OF TEMPORARY GROUND DISTURBANCE ASSOCIATED WITH THE PROJECT.
8. ALL UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
9. FOR DETAILED STRUCTURE DEPTH INFORMATION SEE STRUCTURAL PLAN SET.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
SYMBOLS, LEGEND, AND GENERAL NOTES

CONTRACT NO. HSR13-44
DRAWING NO. TT-B0201
SCALE NO SCALE
SHEET NO. 8

NOTES:

1. RADII ARE POSITIVE IN VALUE BY THE CONVENTION OF LOOKING UP STATION AND TURNING RIGHT.

REFINED CCNM STA 18307+67.15=
ALT 1,2,3,5 STA 18307+67.15

REFINED CCNM STA 19104+40.02=
ALT 1,2,3,5 STA 19094+56.71

REFINED CCNM DESIGN OPTION SB

TRACK GEOMETRY DATA

CURVE No.	DESCRIPTION	BEARING	DISTANCE (ft)	STATION	NORTHING	EASTING	R (ft)	Lc (ft)	SPIRAL TYPE	Ls (ft)	Eq (IN)	Eu (IN)	V (MPH)
	POT			18307+67.15	2283684.03	6373105.91							250
	TS	S74°57'09"E	175.15	18309+42.30	2283638.56	6373275.09			Cosine				250
6	SC			18331+92.30	2283030.26	6375441.14				2250			250
	CS			18380+83.20	2281210.67	6379975.14	30000	4890.90	Cosine		5.50	2.83	250
	ST			18403+33.20	2280152.80	6381960.77				2250			250
	TS	S61°18'51"E	1152.83	18414+86.03	2279599.44	6382972.11			Cosine				220
7	SC			18431+86.03	2278800.63	6384472.61				1700			220
	CS			18445+42.24	2278233.68	6385704.40	-22050	1356.21	Cosine		5.80	2.98	220
	ST			18462+42.24	2277613.40	6387287.08				1700			220
	TS	S69°15'20"E	4132.92	18503+75.16	2276149.53	6391152.06			Cosine				220
8	SC			18520+75.16	2275529.21	6392734.71				1700			220
	CS			18667+88.24	2265844.79	6403446.27	22000	14713.08	Cosine		5.80	3.00	220
	ST			18684+88.24	2264332.46	6404222.45				1700			220
	TS	S26°30'37"E	1046.67	18695+34.91	2263395.84	6404689.64			Cosine				220
9	SC			18712+34.91	2261883.49	6405465.79				1700			220
	CS			18818+71.98	2254121.67	6412587.87	-22050	10637.07	Cosine		5.80	2.98	220
	ST			18835+71.98	2253218.62	6414028.04				1700			220
	TS	S58°34'03"E	5382.63	18889+54.61	2250411.61	6418620.80			Cosine				250
10	SC			18904+04.61	2249649.53	6419854.37				1450			250
	CS			18933+14.12	2248014.09	6422260.13	45000	2909.51	Cosine		3.00	2.56	250
	ST			18947+64.12	2247147.37	6423422.55				1450			250
	TS	S53°01'00"E	1545.88	18963+10.00	2246217.40	6424657.42			Cosine				250
11	SC			18988+10.00	2244689.72	6426636.12				2500			250
	CS			19055+04.79	2239925.54	6431321.08	31000	6694.78	Cosine		5.50	2.56	250
	ST			19080+04.79	2237921.50	6432815.36				2500			250
	POT	S36°01'21"E	2435.23	19104+40.02	2235951.92	6434247.52			Cosine				250

REFINED CCNM STA 18307+65.52=
ALT 1,2,3,5 STA 18307+65.52

REFINED CCNM STA 19104+69.61=
ALT 1,2,3,5 STA 19094+86.31

REFINED CCNM DESIGN OPTION NB

TRACK GEOMETRY DATA

CURVE No.	DESCRIPTION	BEARING	DISTANCE (ft)	STATION	NORTHING	EASTING	R (ft)	Lc (ft)	SPIRAL TYPE	Ls (ft)	Eq (IN)	Eu (IN)	V (MPH)
	POT			18307+65.52	2283708.41	6373112.50							250
	TS	S74°57'09"E	175.15	18309+40.67	2283662.94	6373281.64			Cosine				250
6N	SC			18331+90.67	2283054.66	6375447.71				2250			250
	CS			18380+87.58	2281232.84	6379987.26	30025.25	4896.91	Cosine		5.50	2.83	250
	ST			18403+37.58	2280174.95	6381972.89				2250			250
	TS	S61°18'51"E	1152.83	18414+90.41	2279621.59	6382984.23			Cosine				220
7N	SC			18431+90.41	2278822.80	6384484.74				1700			220
	CS			18445+43.12	2278257.31	6385713.36	-22024.75	1352.71	Cosine		5.80	2.98	220
	ST			18462+43.12	2277637.02	6387296.02				1700			220
	TS	S69°15'20"E	4132.92	18503+76.04	2276173.14	6391161.00			Cosine				220
8N	SC			18520+76.04	2275552.85	6392743.67				1700			220
	CS			18668+07.96	2265856.07	6403468.89	22025.25	14731.92	Cosine		5.80	3.00	220
	ST			18685+07.96	2264343.73	6404245.05				1700			220
	TS	S26°30'37"E	1046.67	18695+54.63	2263407.11	6404712.24			Cosine				220
9N	SC			18712+54.63	2261894.77	6405488.40				1700			220
	CS			18818+77.57	2254143.23	6412601.05	-22024.75	10622.94	Cosine		5.80	2.98	220
	ST			18835+77.57	2253240.16	6414041.21				1700			220
	TS	S58°34'03"E	5826.95	18894+04.52	2250201.44	6419013.09			Cosine				250
10N	SC			18908+04.52	2249465.85	6420204.24				1400			250
	CS			18937+70.43	2247798.72	6422656.61	45066	2965.91	Cosine		3.00	2.56	250
	ST			18951+70.43	2246961.69	6423778.82				1400			250
	TS	S53°01'00"E	1149.59	18963+20.02	2246270.12	6424697.12			Cosine				250
11N	SC			18988+20.02	2244742.49	6426675.87				2500			250
	CS			19055+34.38	2239964.40	6431374.51	31066	6714.36	Cosine		5.50	2.56	250
	ST			19080+34.38	2237960.32	6432868.74				2500			250
	POT	S36°01'21"E	2435.23	19104+69.61	2235990.73	6434300.90			Cosine				250

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

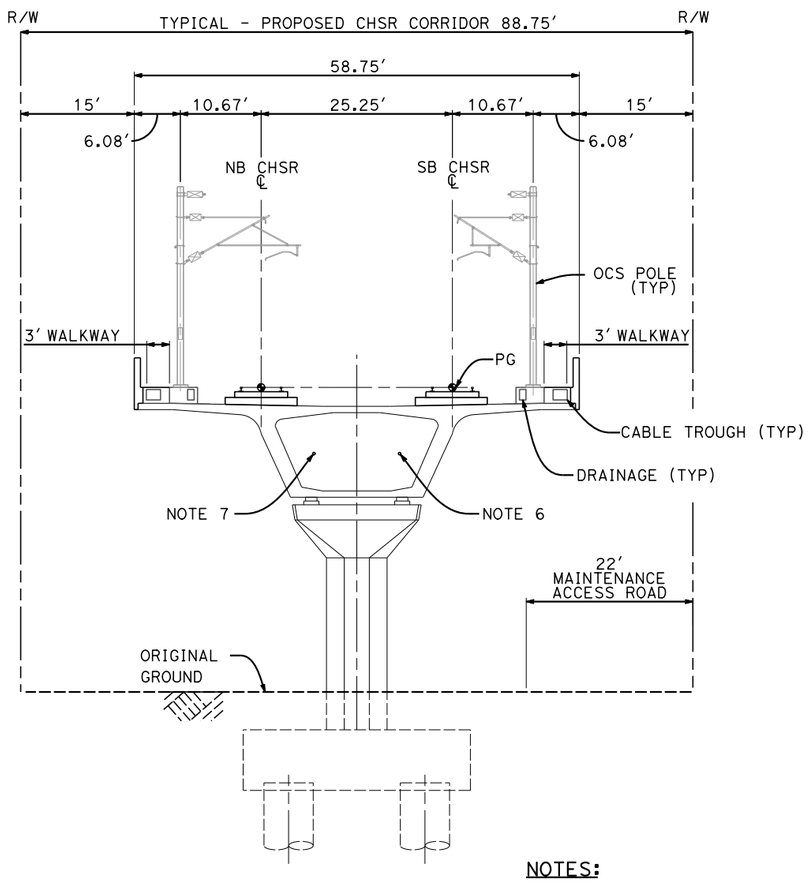
NOT FOR CONSTRUCTION

T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

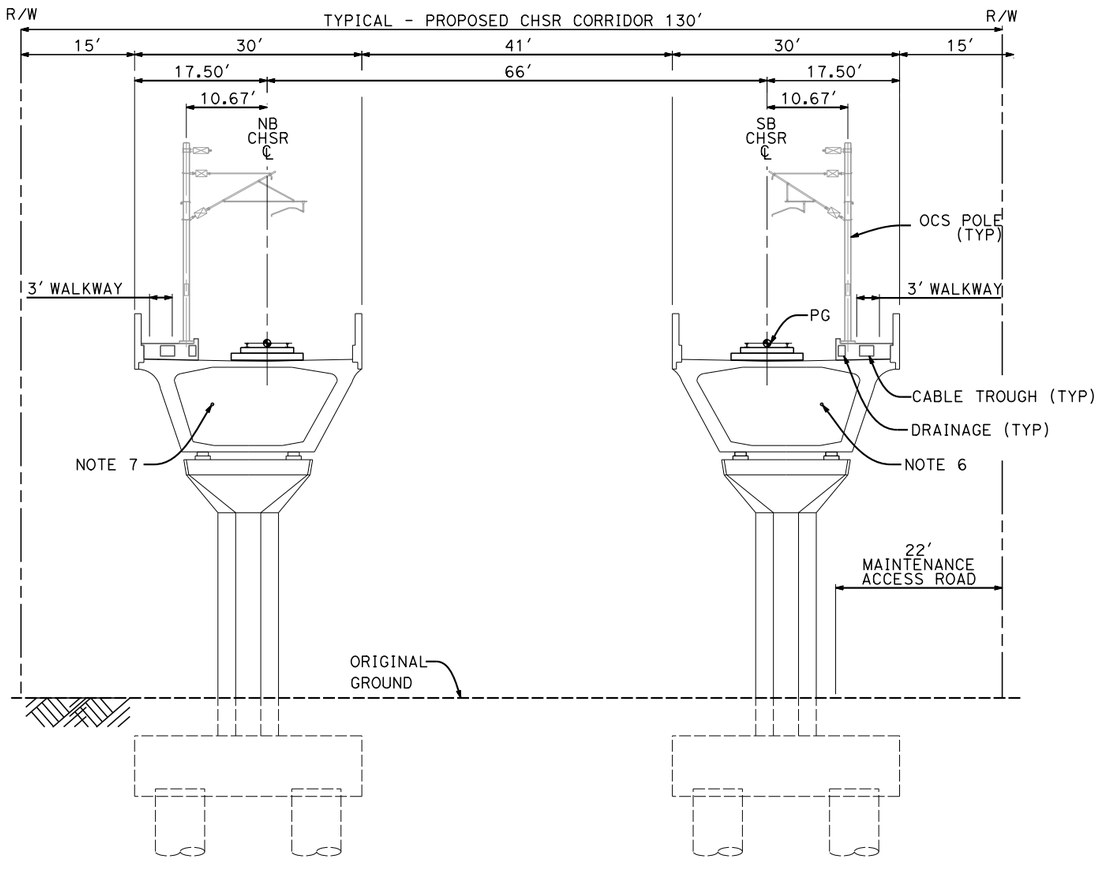
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO. HSR13-44
DRAWING NO. TT-B0202
SCALE NO SCALE
SHEET NO. 9



SECTION C

STA 18465+50 TO 18475+65 (REFINED CCNM)
STA 18491+62 TO 18493+45 (REFINED CCNM)
STA 18597+24 TO 18603+56 (REFINED CCNM)
STA 18744+33 TO 18746+98 (REFINED CCNM)
STA 18838+59 TO 18850+78 (REFINED CCNM)
STA 18853+14 TO 18884+25 (REFINED CCNM)



SECTION D

STA 19075+84 TO 19077+84 (REFINED CCNM)
STA 19097+53 TO 19104+40 (REFINED CCNM)

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
6. PROPOSED 4'' CHSR WATERLINE FROM STATION 18034+00 TO 19591+00
7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

10 0 10 20
1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

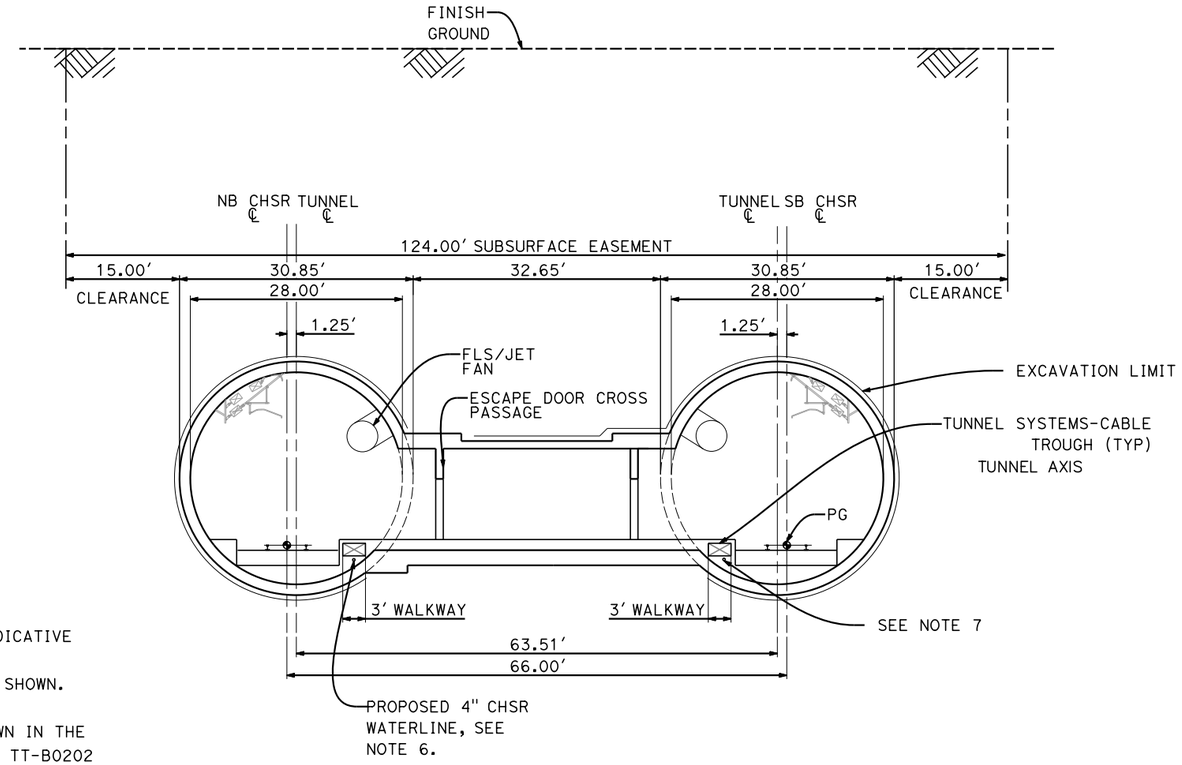
NOT FOR CONSTRUCTION

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 1 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3201
SCALE AS SHOWN
SHEET NO. 10



SECTION G

TWIN TUNNEL - TUNNEL BORING MACHINE

STA 18940+84 TO 19019+33 (REFINED CCNM)

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
6. PROPOSED 4" WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00
7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

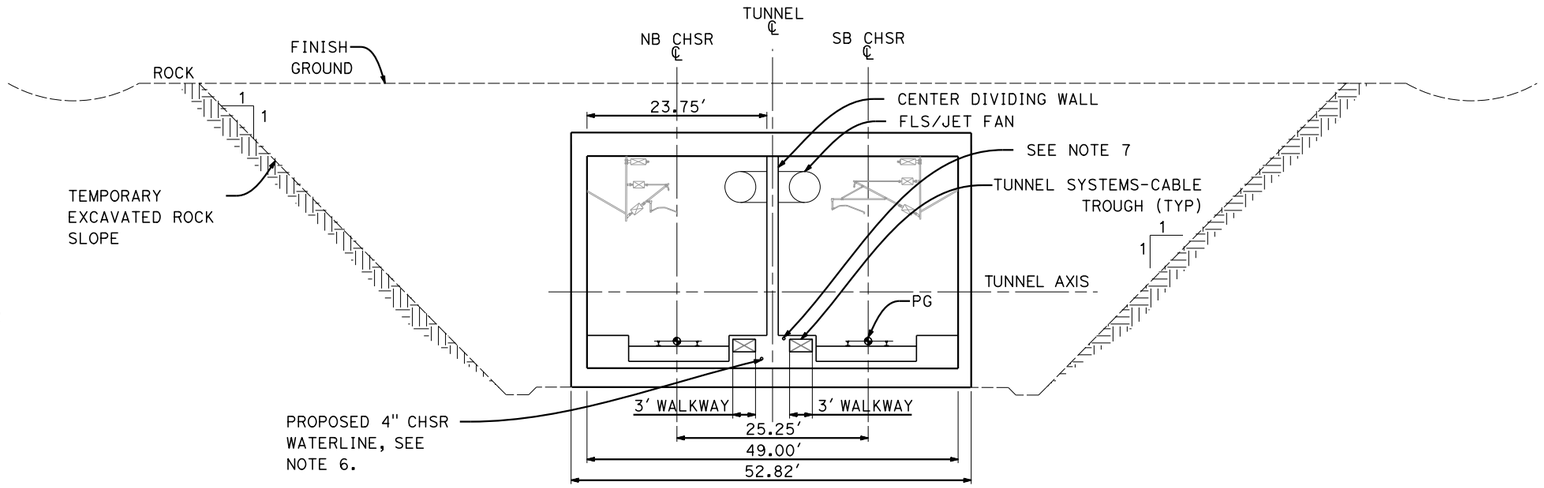
NOT FOR CONSTRUCTION

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 2 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3202
SCALE AS SHOWN
SHEET NO. 11



NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
6. PROPOSED 4" WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00
7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

SECTION H

SINGLE TUNNEL - CUT AND COVER

STA 18362+50 TO 18368+50 (REFINED CCNM)

10 0 10 20
1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

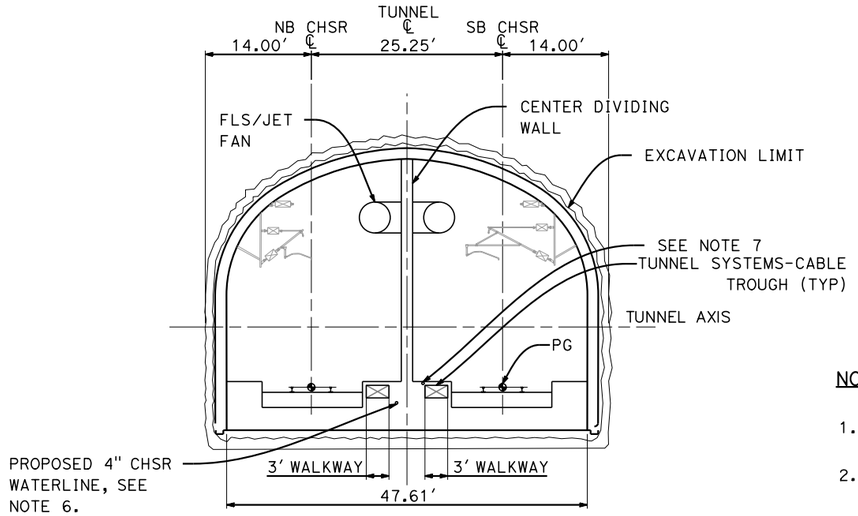
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 3 OF 10

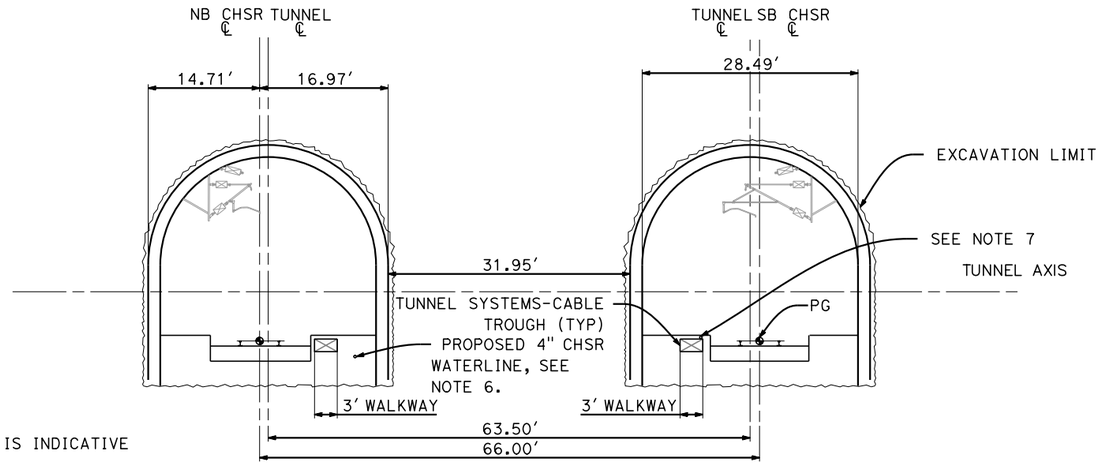
CONTRACT NO. HSR13-44
DRAWING NO. TT-B3203
SCALE AS SHOWN
SHEET NO. 12



SECTION J

SINGLE TUNNEL - DRILL AND BLAST

STA 18368+50 TO 18422+90 (REFINED CCNM)
STA 18524+76 TO 18566+93 (REFINED CCNM)
STA 18617+53 TO 18706+84 (REFINED CCNM)



SECTION K

TWIN TUNNEL - DRILL AND BLAST

STA 18930+70 TO 18940+84 (REFINED CCNM)

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
6. PROPOSED 4" WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00
7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

10 0 10 20
1"=10′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

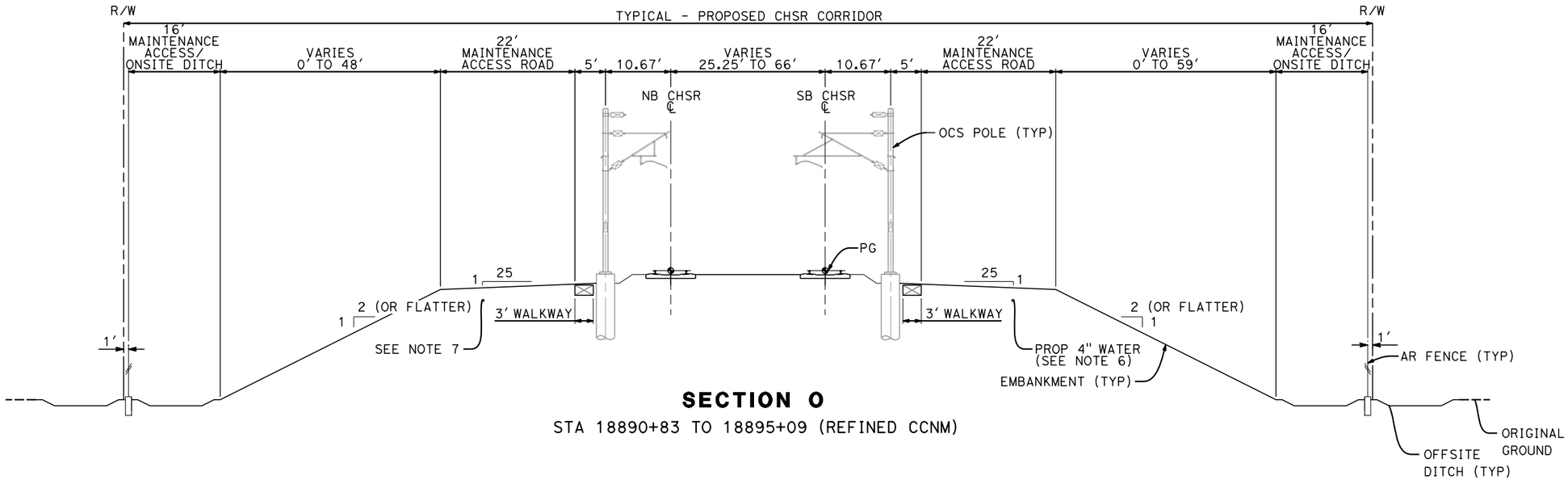
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

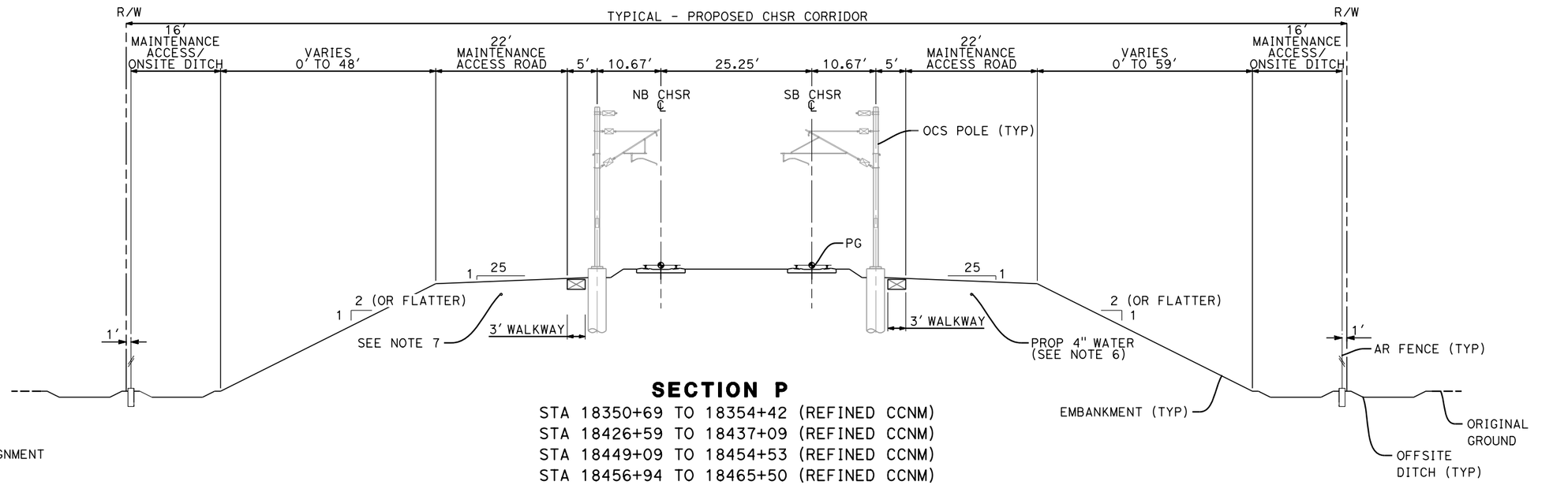
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 4 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3204
SCALE AS SHOWN
SHEET NO. 13



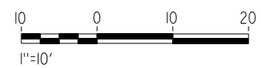
SECTION O

STA 18890+83 TO 18895+09 (REFINED CCNM)



SECTION P

STA 18350+69 TO 18354+42 (REFINED CCNM)
STA 18426+59 TO 18437+09 (REFINED CCNM)
STA 18449+09 TO 18454+53 (REFINED CCNM)
STA 18456+94 TO 18465+50 (REFINED CCNM)
STA 18475+65 TO 18477+49 (REFINED CCNM)
STA 18486+94 TO 18491+62 (REFINED CCNM)
STA 18493+45 TO 18495+00 (RFEINED CCNM)
STA 18584+81 TO 18597+24 (REFINED CCNM)
STA 18738+45 TO 18744+33 (REFINED CCNM)



NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
6. PROPOSED 4'' WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00
7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

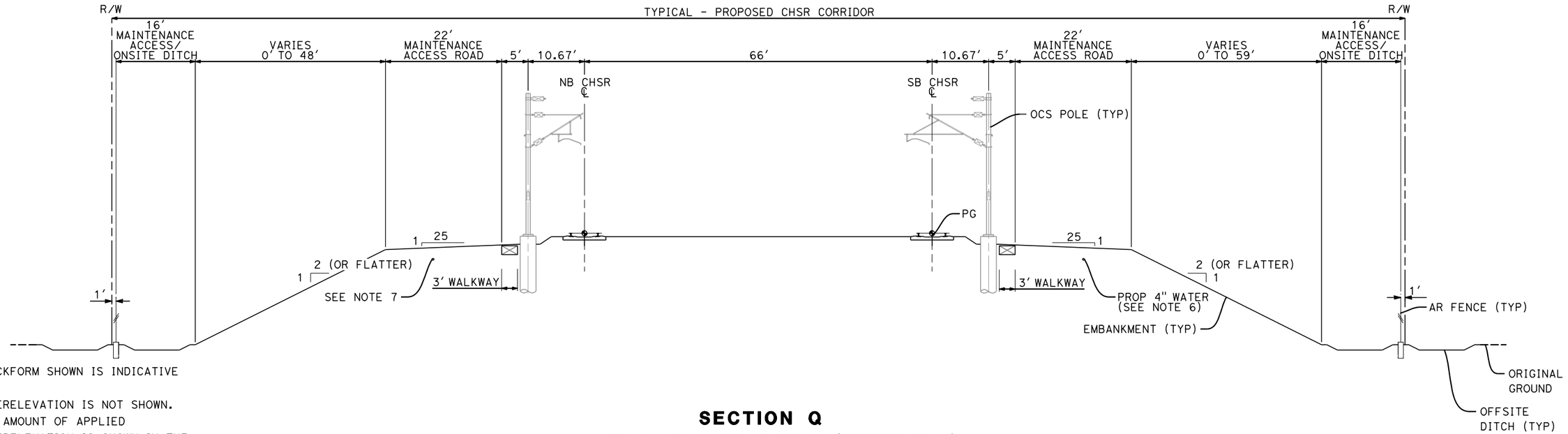
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 5 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3205
SCALE AS SHOWN
SHEET NO. 14



SECTION Q

STA 19058+90 TO 19075+84 (REFINED CCNM)
STA 19077+84 TO 19097+53 (REFINED CCNM)

10 0 10 20
1"=10′

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE

2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202

3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS

4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS

5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS

6. PROPOSED 4'' WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00

7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

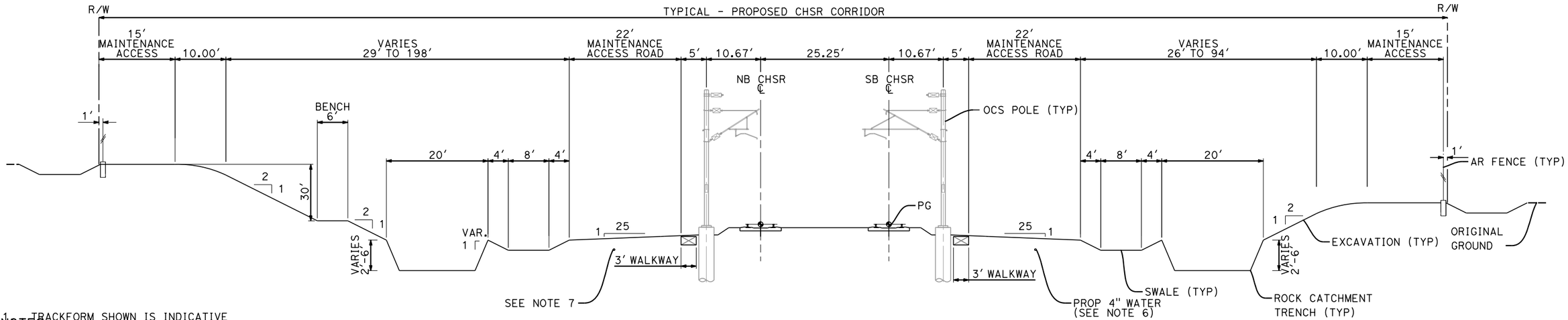
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 6 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3206
SCALE AS SHOWN
SHEET NO. 15



NOTES:

1. TRACKFORM SHOWN IS INDICATIVE

2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202

3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS

4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS

5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS

6. PROPOSED 4'' WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00

7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

SECTION S

STA 18307+67 TO 18350+69 (REFINED CCNM)
STA 18354+42 TO 18362+50 (REFINED CCNM)
STA 18422+90 TO 18426+59 (REFINED CCNM)
STA 18437+09 TO 18449+09 (REFINED CCNM)
STA 18454+53 TO 18456+94 (REFINED CCNM)
STA 18477+49 TO 18486+94 (REFINED CCNM)
STA 18495+00 TO 18524+76 (REFINED CCNM)
STA 18566+93 TO 18584+81 (REFINED CCNM)
STA 18603+56 TO 18617+53 (REFINED CCNM)
STA 18706+84 TO 18738+45 (REFINED CCNM)
STA 18813+16 TO 18838+59 (REFINED CCNM)
STA 18884+25 TO 18890+83 (REFINED CCNM)

10 0 10 20
1"=10′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

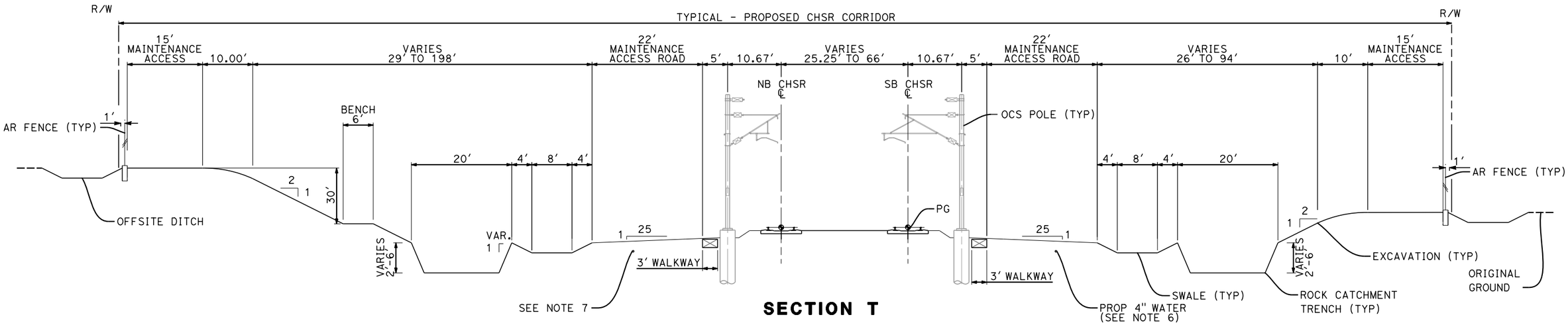
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

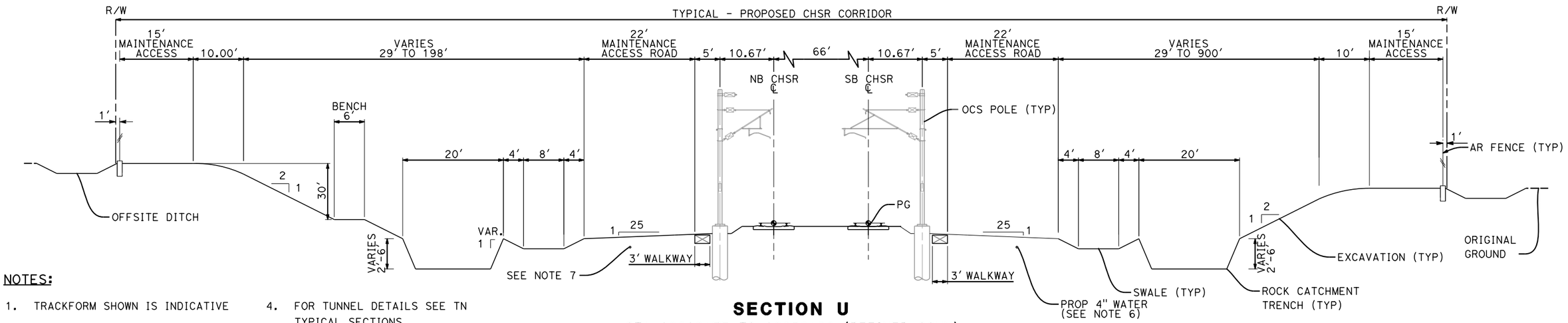
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 7 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3207
SCALE AS SHOWN
SHEET NO. 16



SECTION T

STA 18895+09 TO 18930+70 (REFINED CCNM)



SECTION U

STA 19019+33 TO 19058+90 (REFINED CCNM)

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
6. PROPOSED 4'' WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00
7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

10 0 10 20
1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

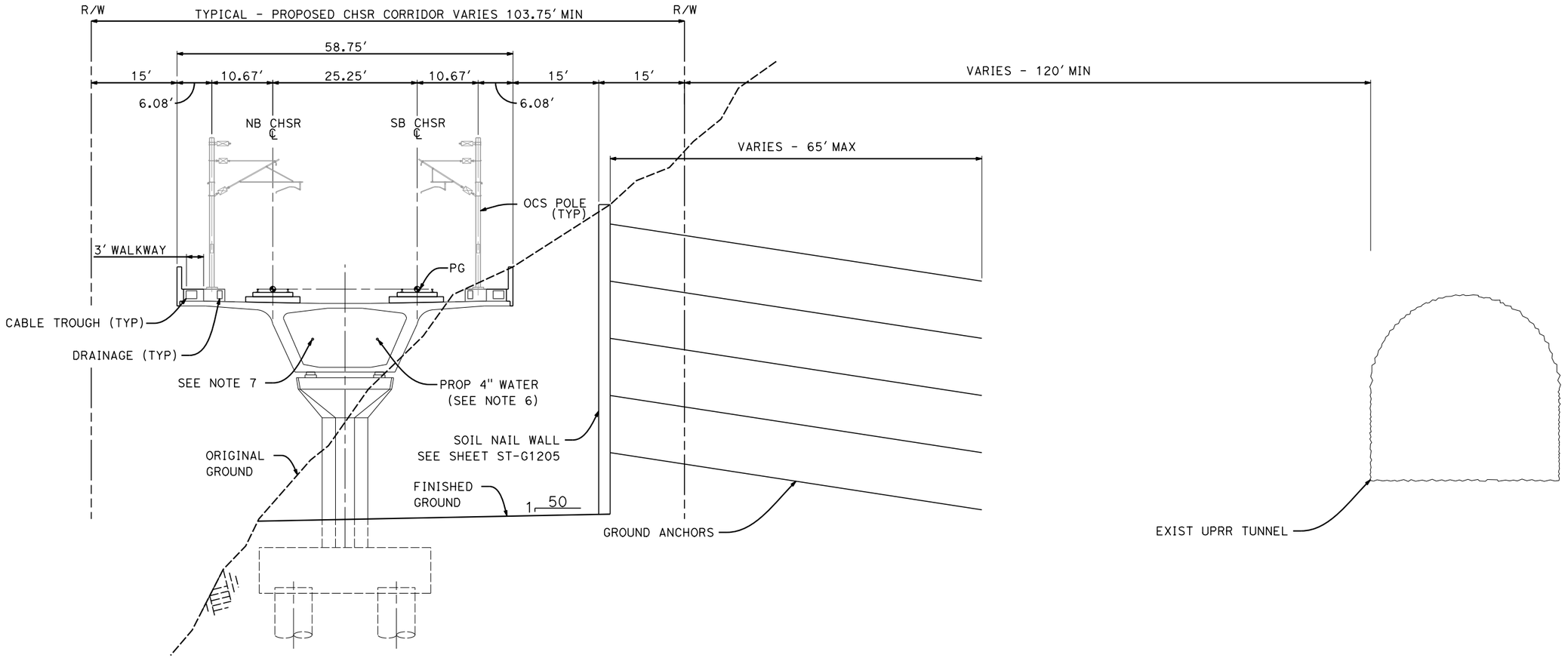
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 8 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3208
SCALE AS SHOWN
SHEET NO. 17



SECTION AC

STA 18850+78 to 18853+14 (REFINED CCNM)

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
6. PROPOSED 4'' WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00
7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00

10 0 10 20
1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

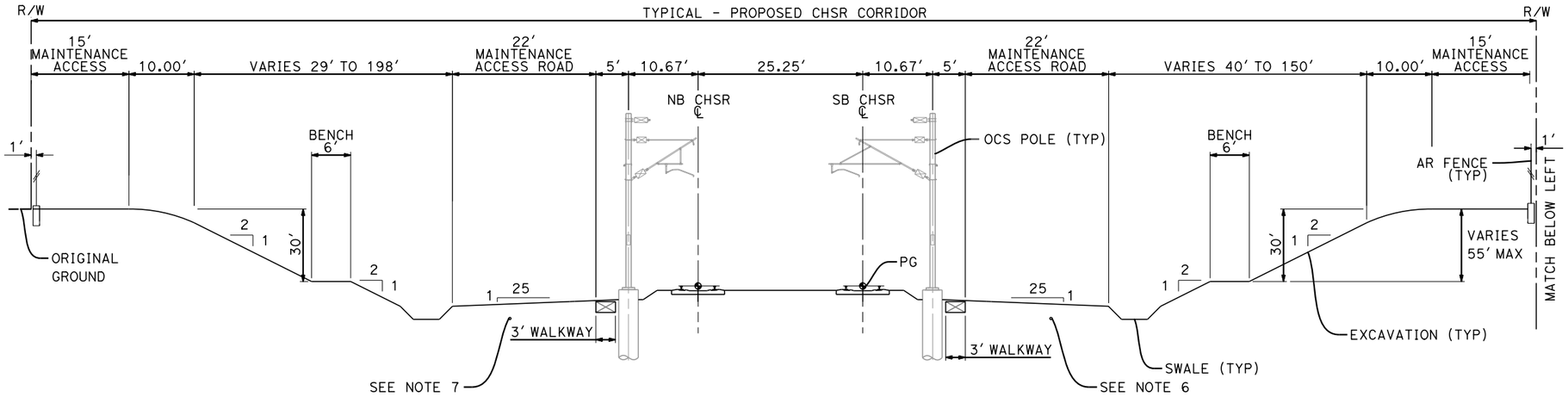
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 9 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3209
SCALE AS SHOWN
SHEET NO. 18

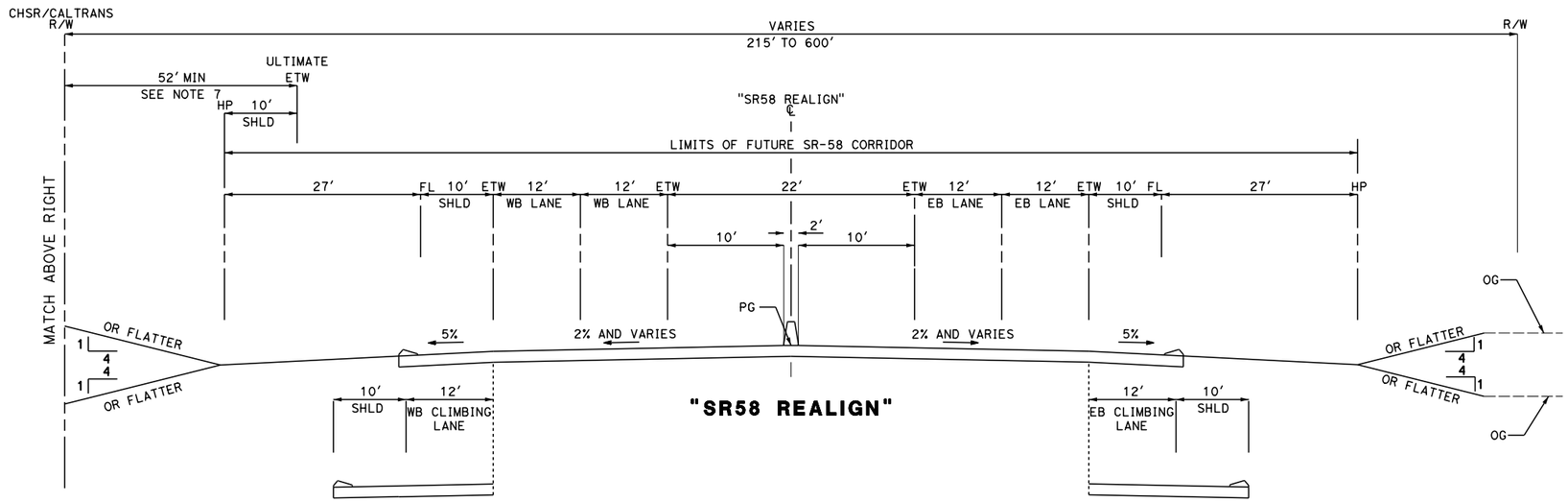


SECTION AD

STA 18746+98 TO 18813+16 (REFINED CCNM)

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES ON SHEET TT-B0202
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
6. PROPOSED 4'' WATER LINE PARALLELS ALIGNMENT FROM STATION 18034+00 TO 19591+00.
7. PROPOSED ELECTRIC SERVICE FROM STATION 18034+00 TO 19591+00.
8. A MINIMUM HORIZONTAL CLEARANCE OF 52 FEET IS PROVIDED FROM THE PLANNED ULTIMATE EDGE OF THE TRAVEL WAY (ETW) TO THE HIGH SPEED RAIL CORRIDOR IN ACCORDANCE WITH THE CALTRANS HIGHWAY DESIGN MANUAL.



NOTE (THIS SECTION ONLY):
GRADING SHALL BE 2:1 OR FLATTER FROM STATION 110+05 TO 132+89 AND FROM STATION 177+14 TO 189+00

10 0 10 20
1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

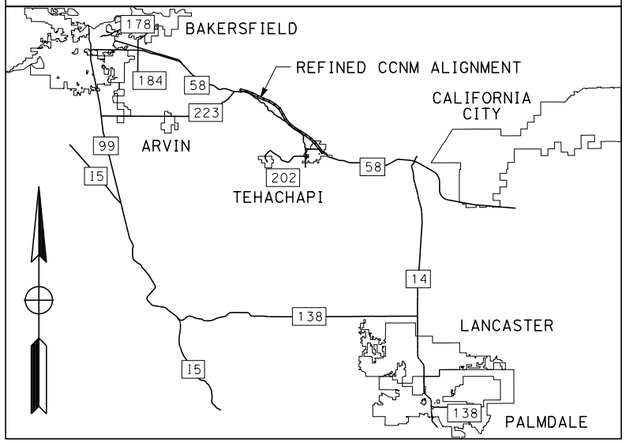
T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

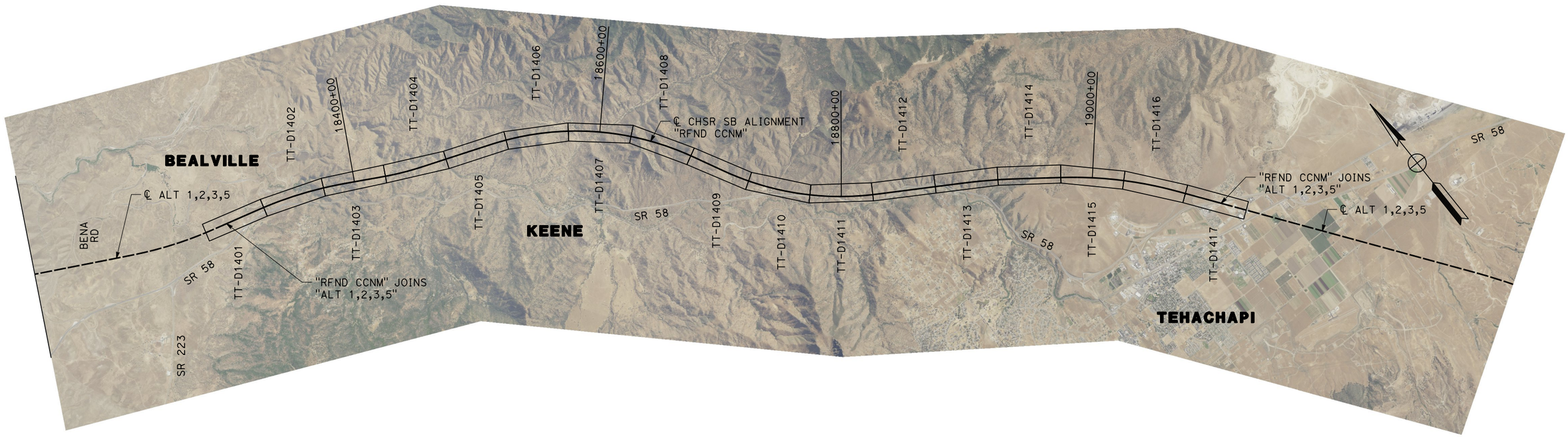
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 10 OF 10

CONTRACT NO. HSR13-44
DRAWING NO. TT-B3210
SCALE AS SHOWN
SHEET NO. 19

VICINITY MAP



REFINED CCNM DESIGN OPTION



4000 0 4000 8000
1"=4000' HOR

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

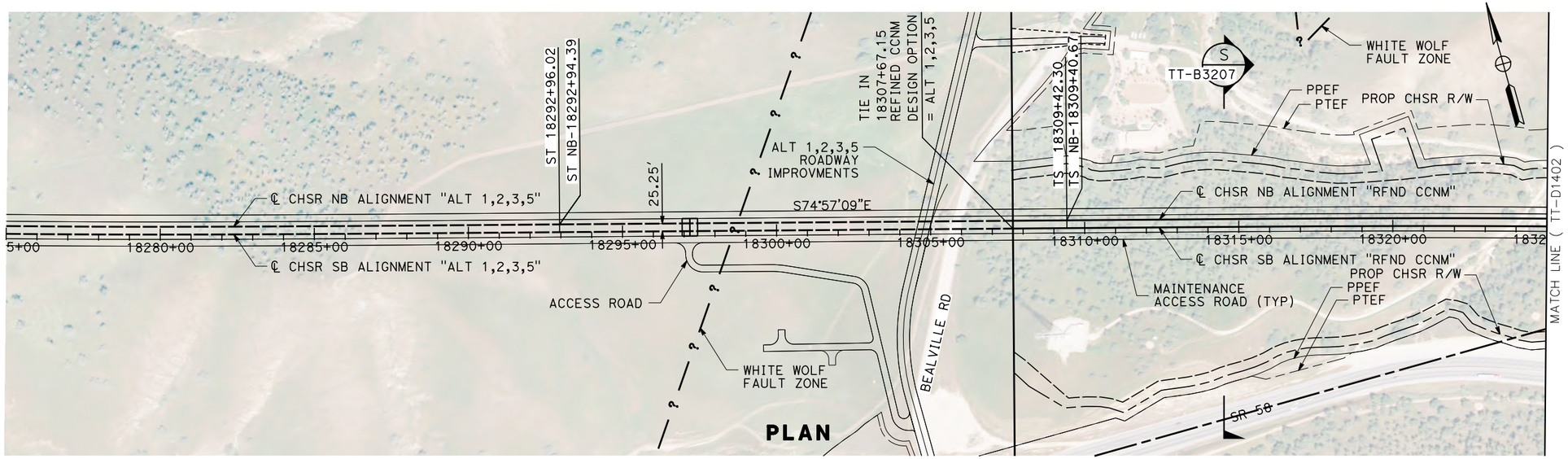
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

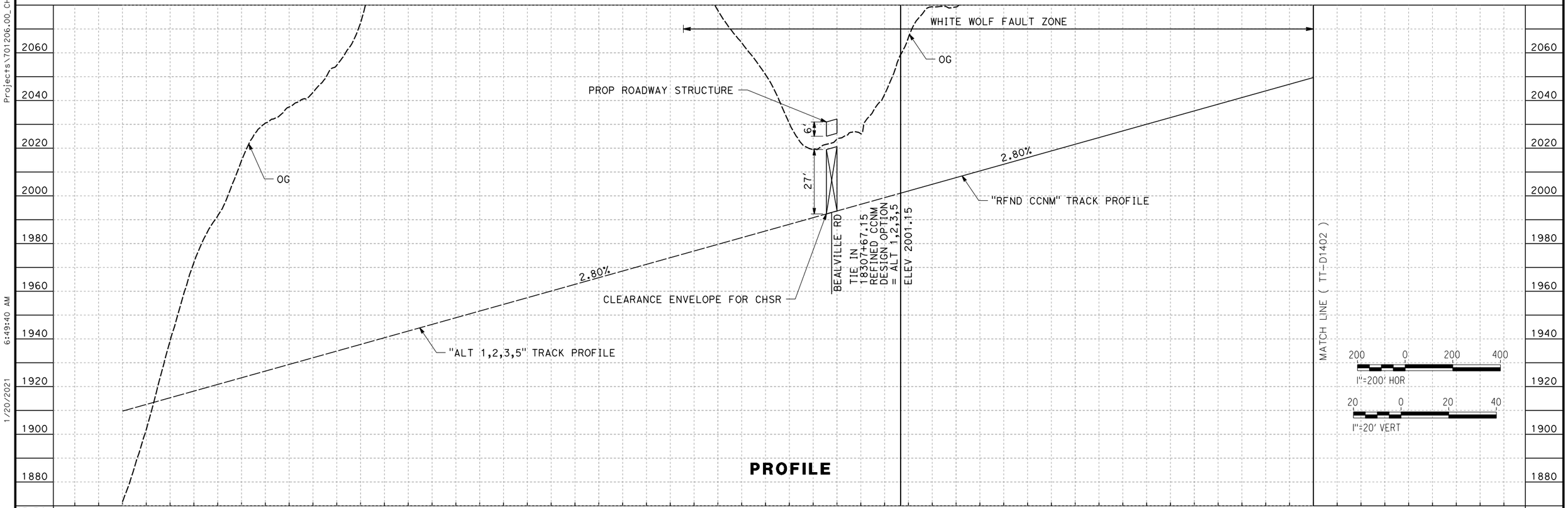
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GENERAL
KEY MAP

CONTRACT NO. HSR13-44
DRAWING NO. TT-C6201
SCALE NO SCALE
SHEET NO. 20



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

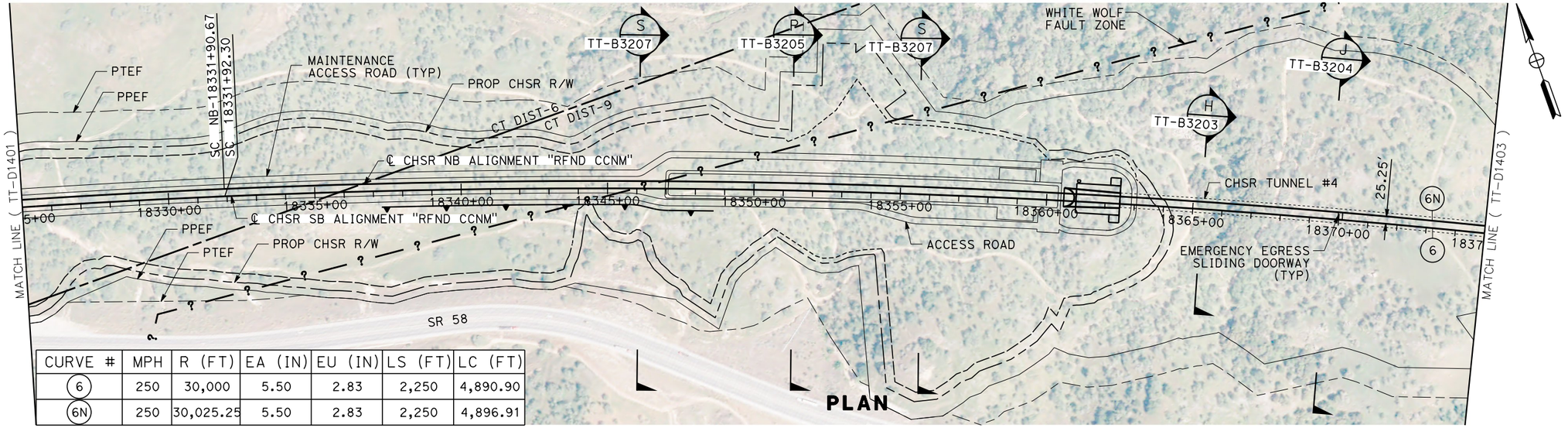
TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE

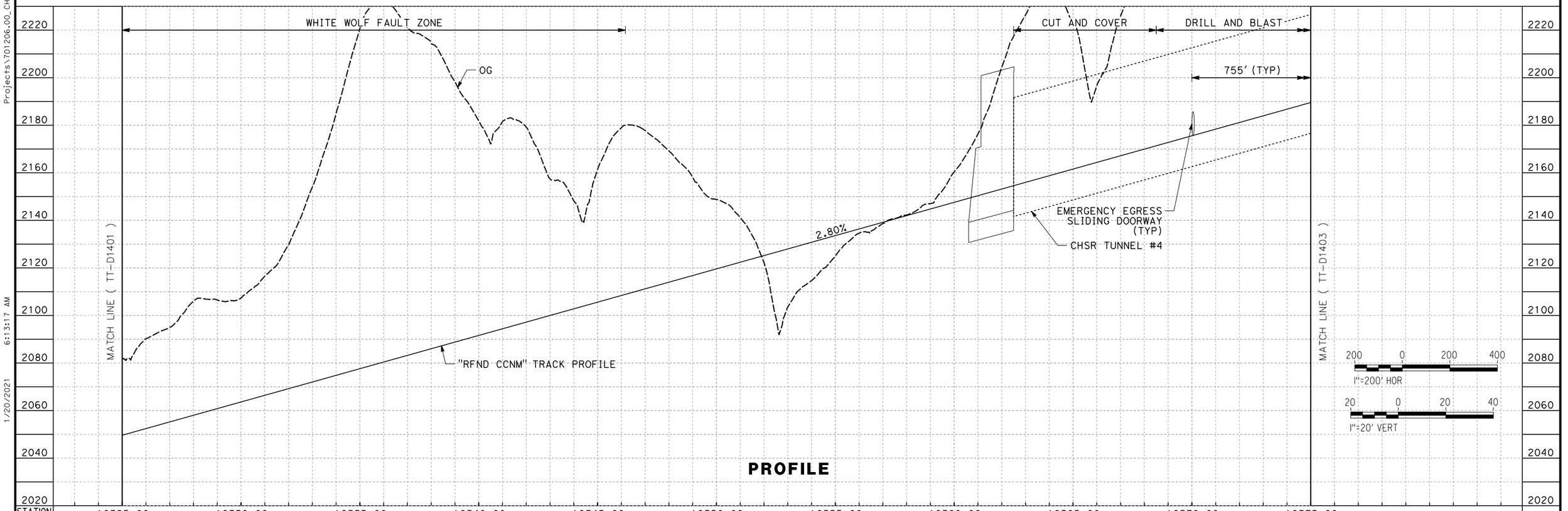
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18275+00 TO 18325+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1401
SCALE AS SHOWN
SHEET NO. 21



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
(6)	250	30,000	5.50	2.83	2,250	4,890.90
(6N)	250	30,025.25	5.50	2.83	2,250	4,896.91

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

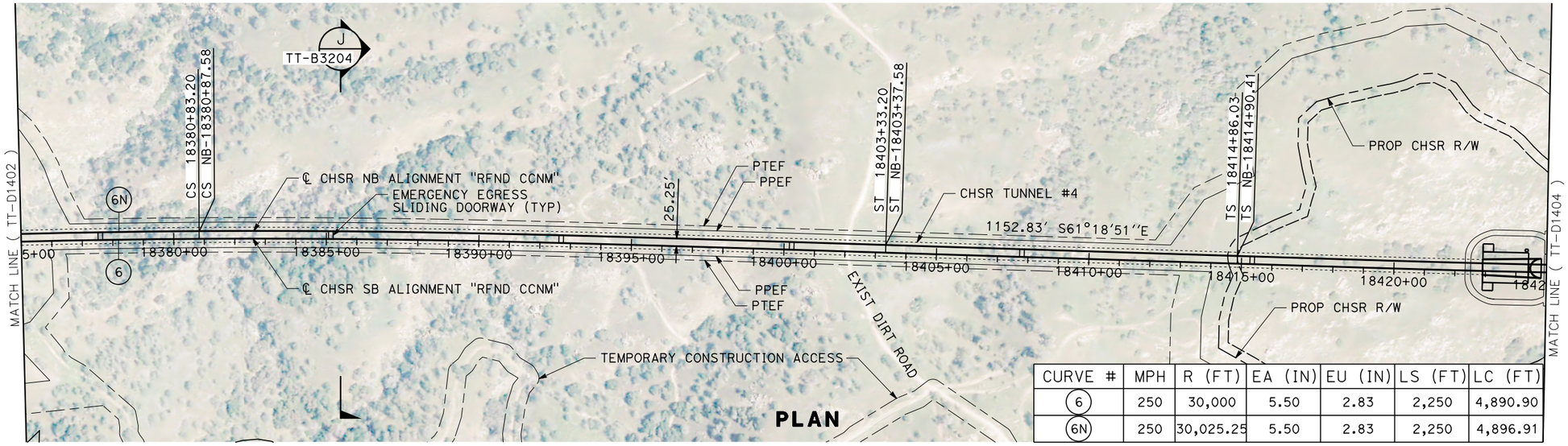
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

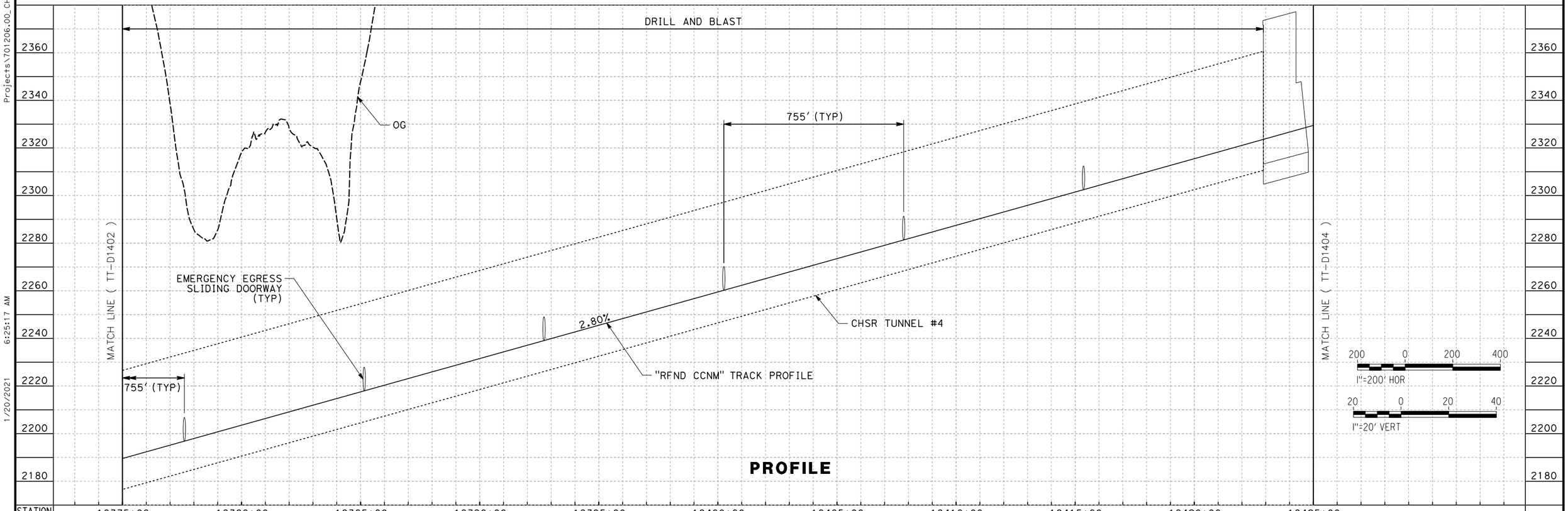
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18325+00 TO 18375+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1402
SCALE AS SHOWN
SHEET NO. 22



PLAN

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
6	250	30,000	5.50	2.83	2,250	4,890.90
6N	250	30,025.25	5.50	2.83	2,250	4,896.91



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

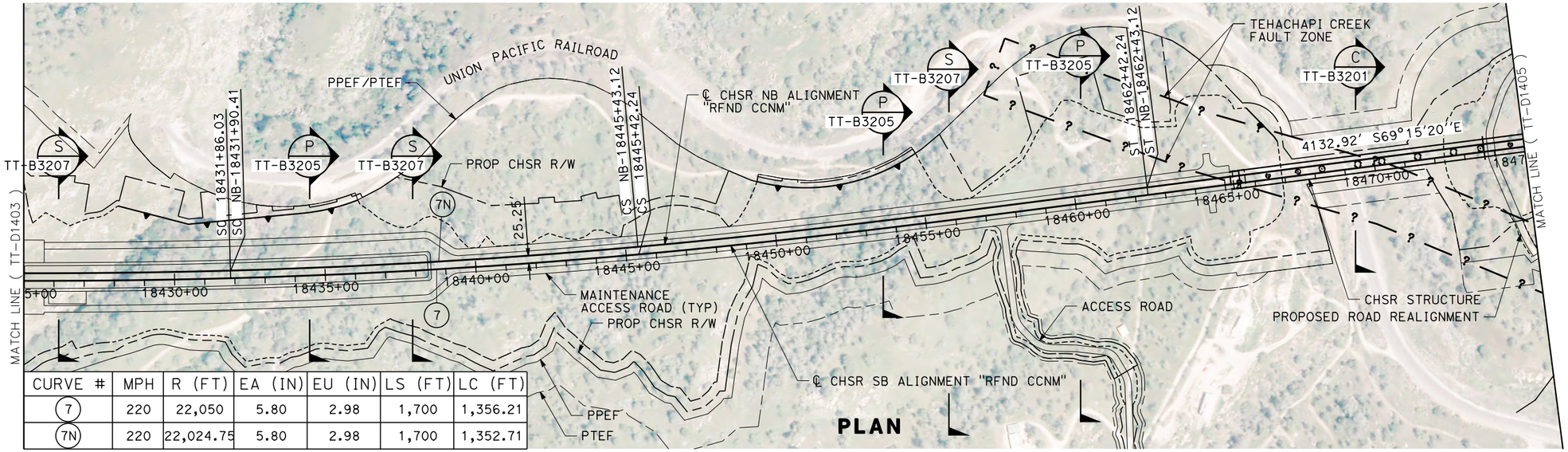
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

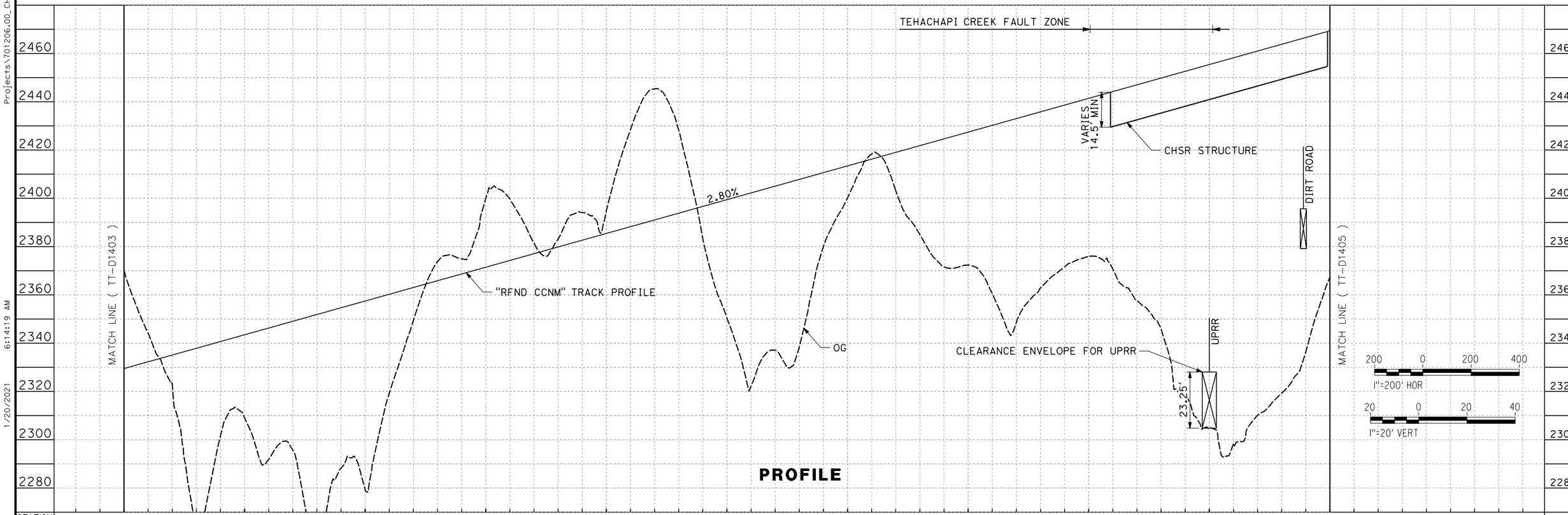
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18375+00 TO 18425+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1403
SCALE AS SHOWN
SHEET NO. 23



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
(7)	220	22,050	5.80	2.98	1,700	1,356.21
(7N)	220	22,024.75	5.80	2.98	1,700	1,352.71

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

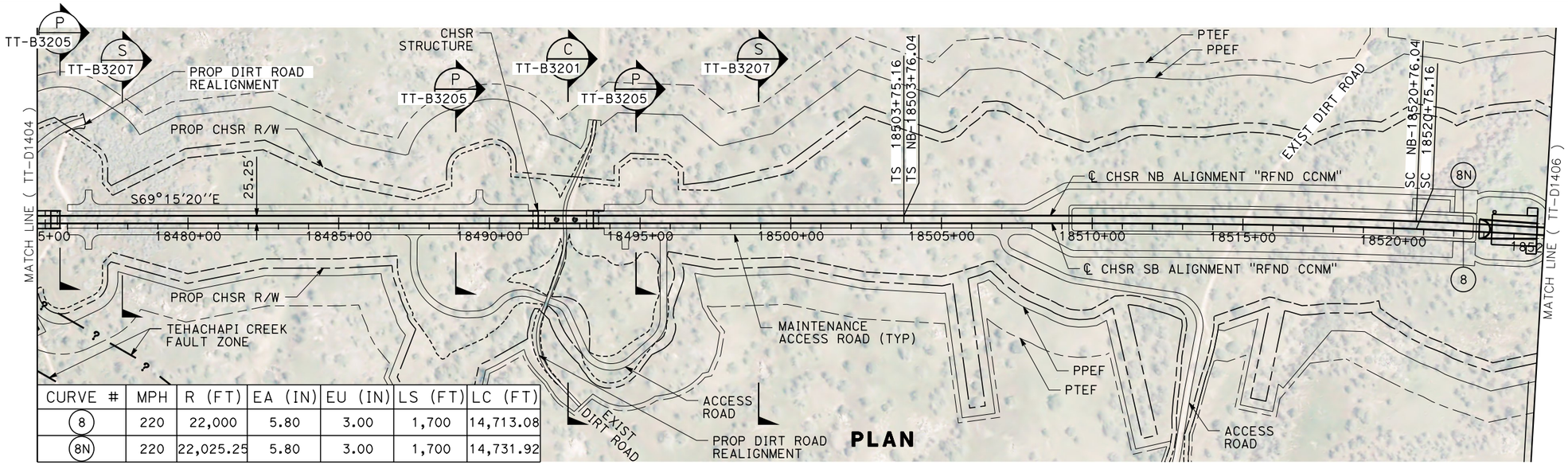
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18425+00 TO 18475+00
PLAN AND PROFILE

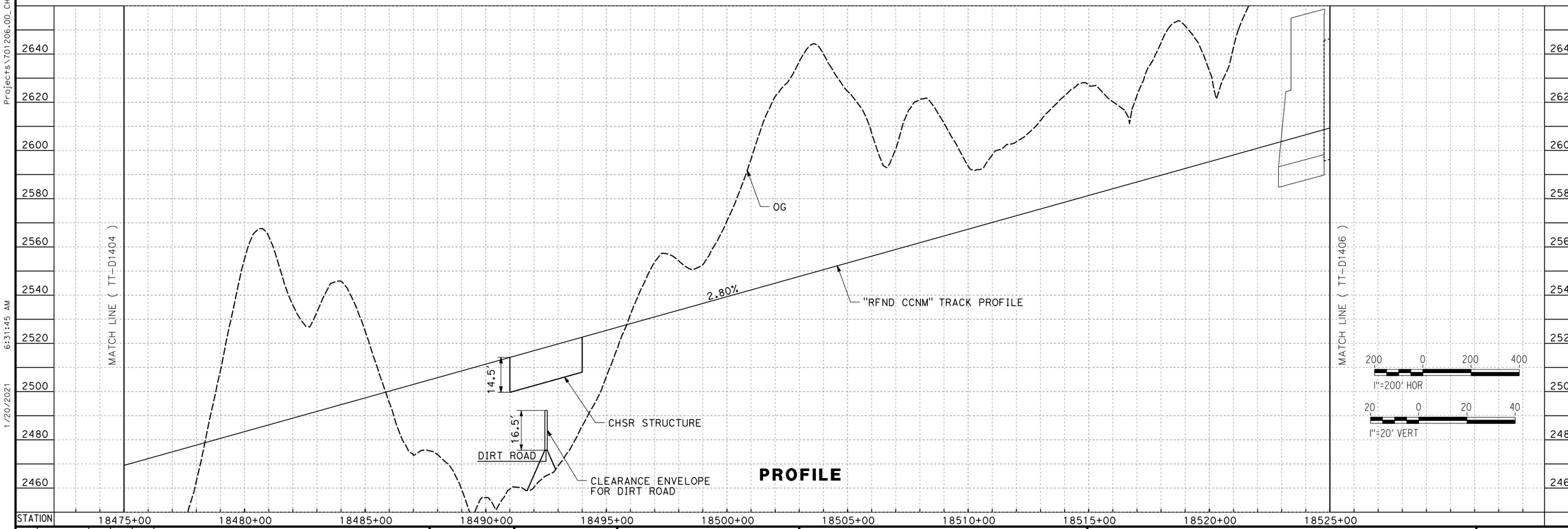
CONTRACT NO. HSR13-44
DRAWING NO. TT-D1404
SCALE AS SHOWN
SHEET NO. 24

Projects\701206.00_CHSRBP\00 CADD\CCNM Option D\Sheets\TT\BP-TT-D1404
1/20/2021 6:14:19 AM
_ics_user_17609



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
(8)	220	22,000	5.80	3.00	1,700	14,713.08
(8N)	220	22,025.25	5.80	3.00	1,700	14,731.92

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

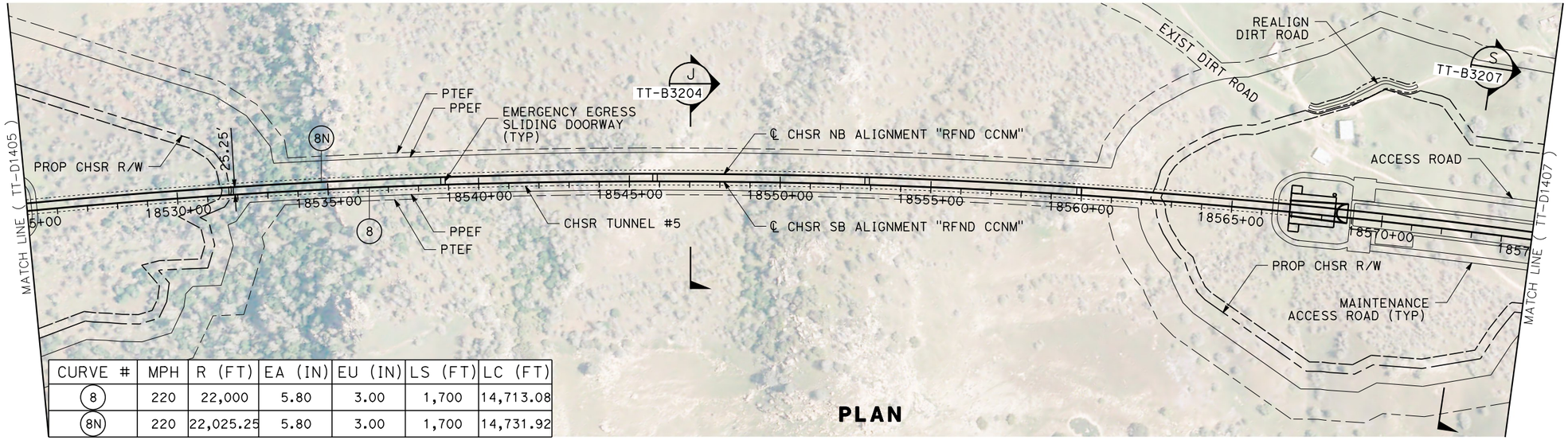
T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18475+00 TO 18525+00
PLAN AND PROFILE

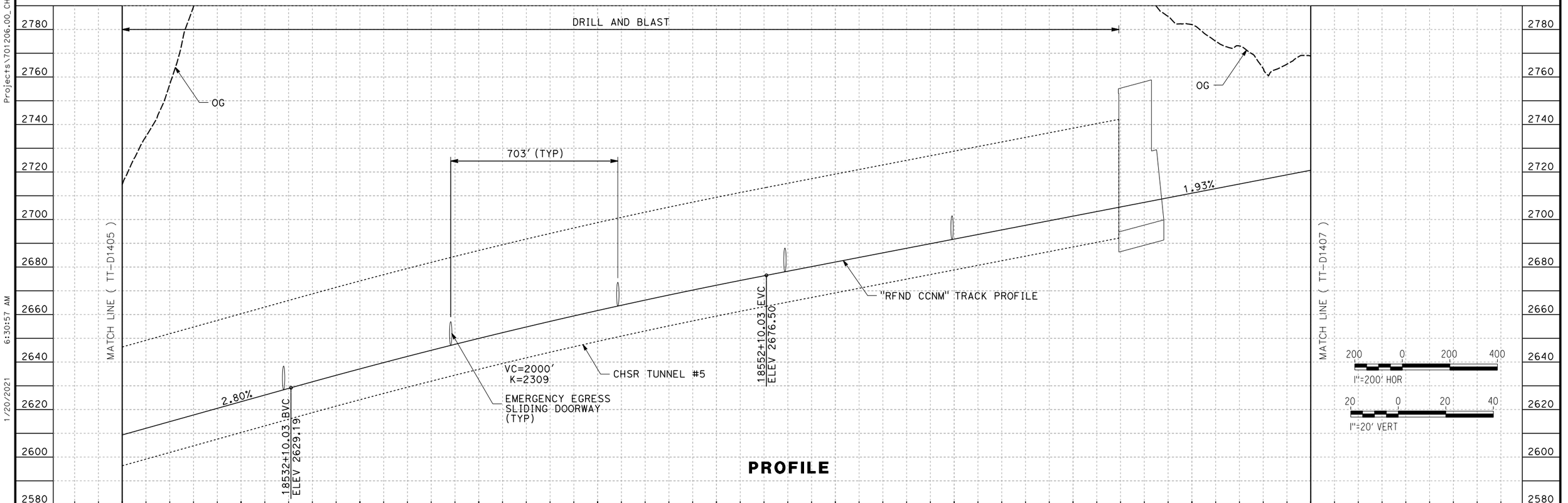
CONTRACT NO. HSR13-44
DRAWING NO. TT-D1405
SCALE AS SHOWN
SHEET NO. 25

Projects\701206.00_CHSRBP\00 CADD\CCNM Option D\Sheets\TT\BP-TT-D1405
1/20/2021 6:31:45 AM
_ics_user_17609



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
8	220	22,000	5.80	3.00	1,700	14,713.08
8N	220	22,025.25	5.80	3.00	1,700	14,731.92

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

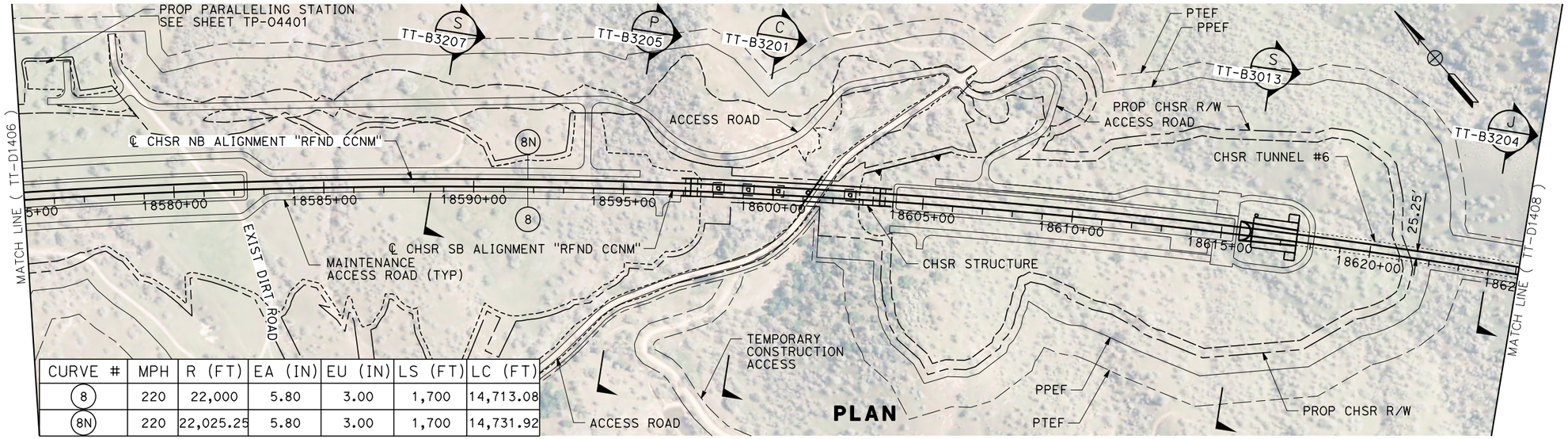
NOT FOR CONSTRUCTION

T.Y.LIN INTERNATIONAL

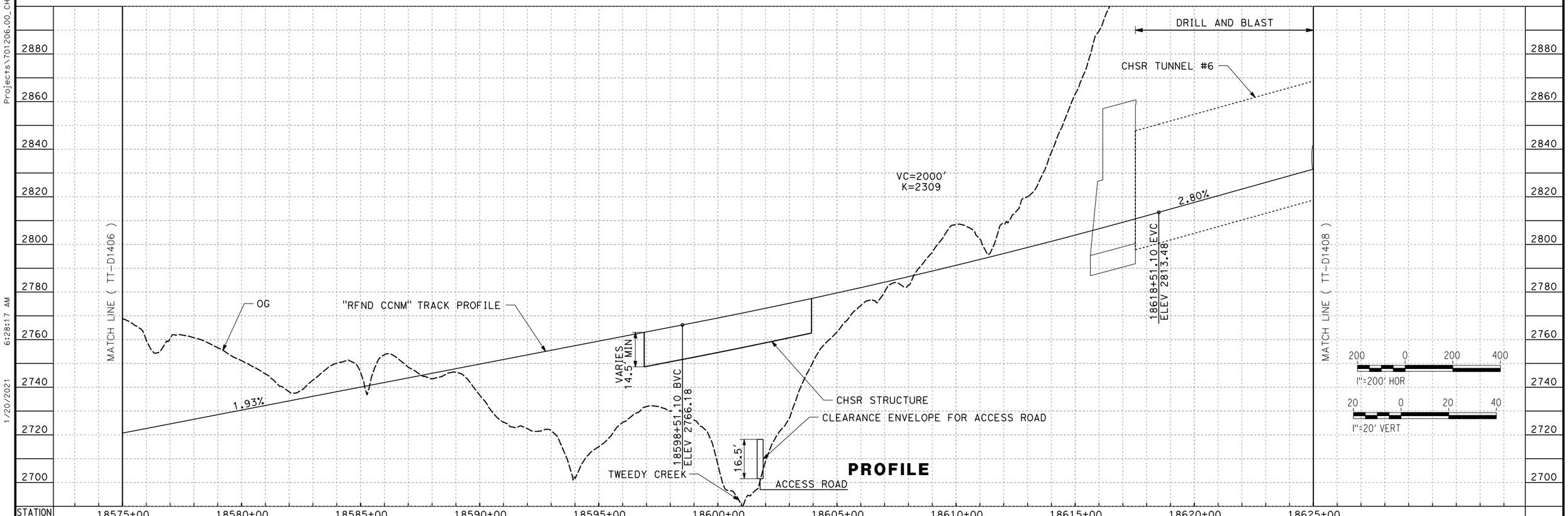
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18525+00 TO 18575+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1406
SCALE AS SHOWN
SHEET NO. 26



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
(8)	220	22,000	5.80	3.00	1,700	14,713.08
(8N)	220	22,025.25	5.80	3.00	1,700	14,731.92



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

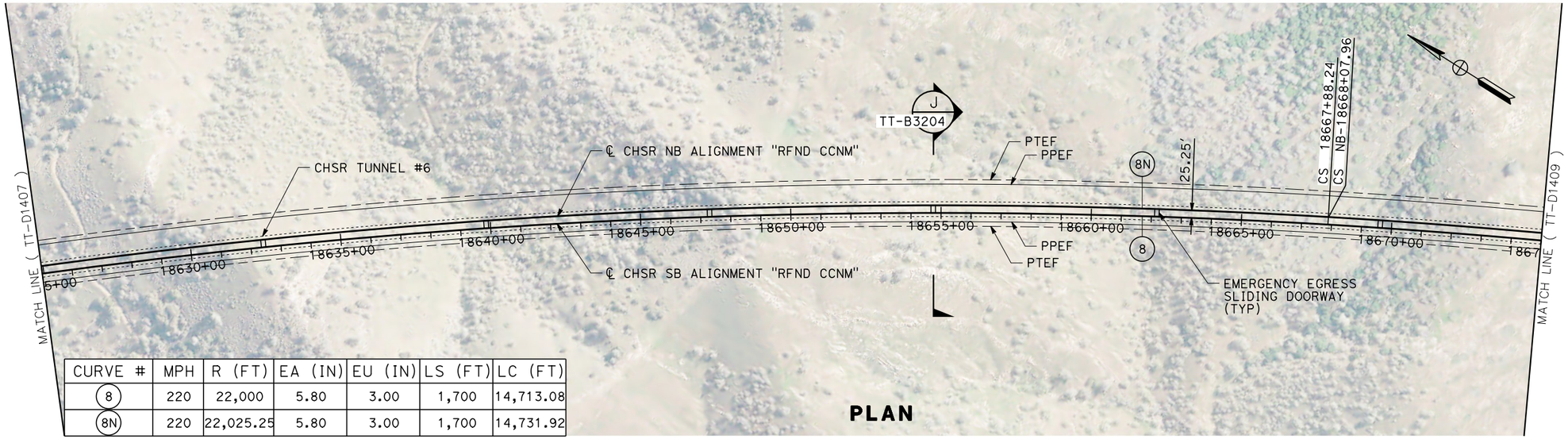
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

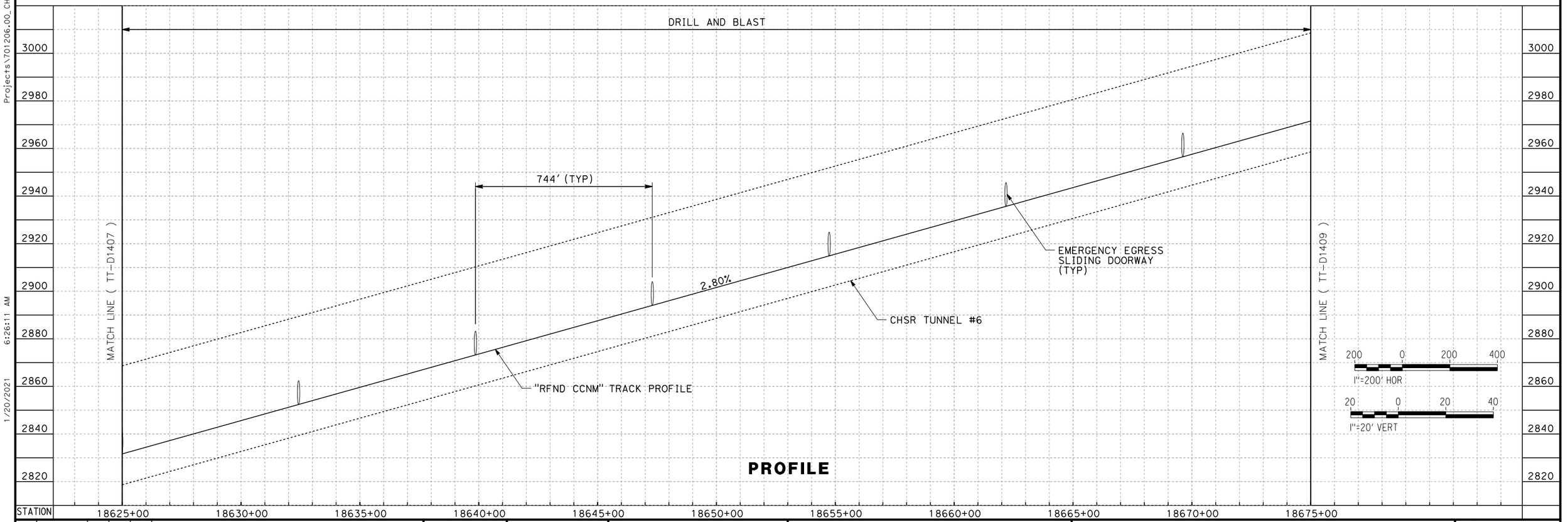
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18575+00 TO 18625+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1407
SCALE AS SHOWN
SHEET NO. 27



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
(8)	220	22,000	5.80	3.00	1,700	14,713.08
(8N)	220	22,025.25	5.80	3.00	1,700	14,731.92

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

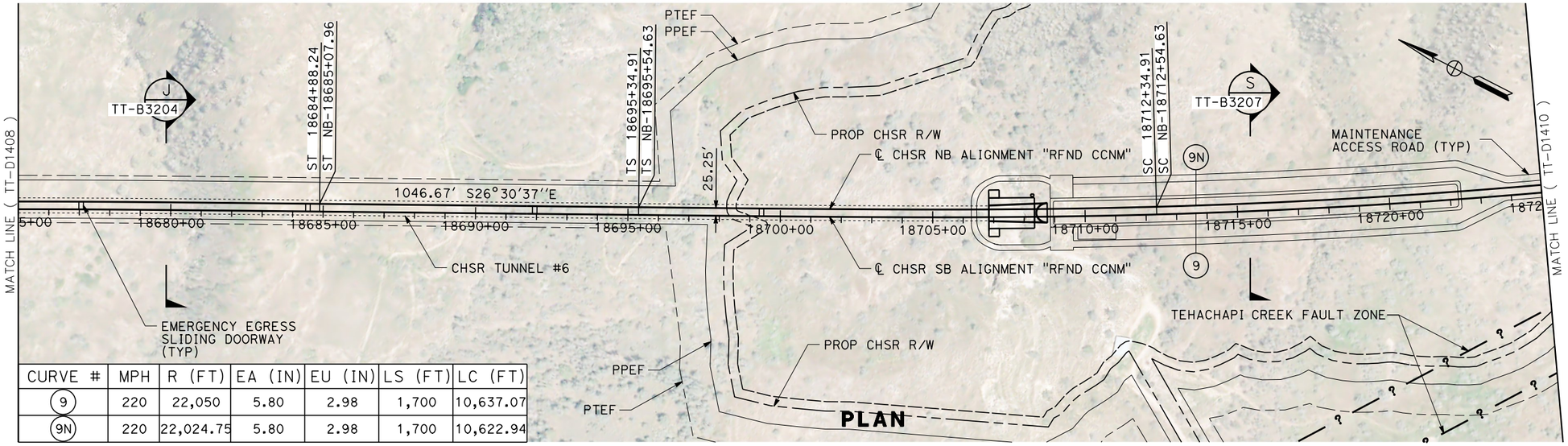
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

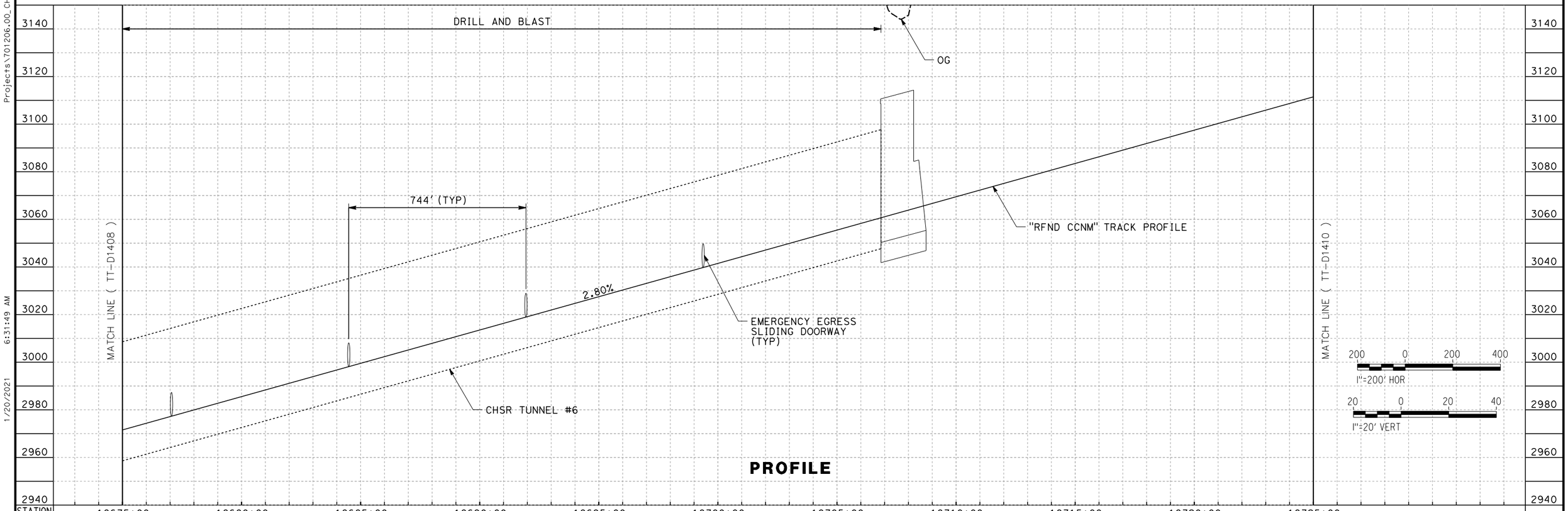
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18625+00 TO 18675+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1408
SCALE AS SHOWN
SHEET NO. 28



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
(9)	220	22,050	5.80	2.98	1,700	10,637.07
(9N)	220	22,024.75	5.80	2.98	1,700	10,622.94

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

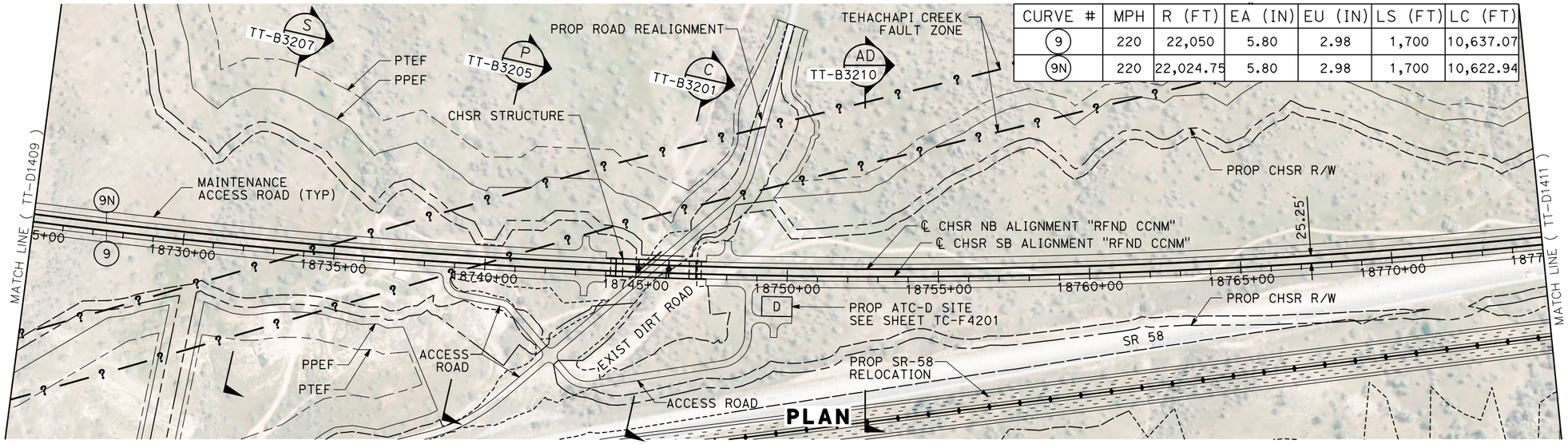
T·Y·LIN INTERNATIONAL

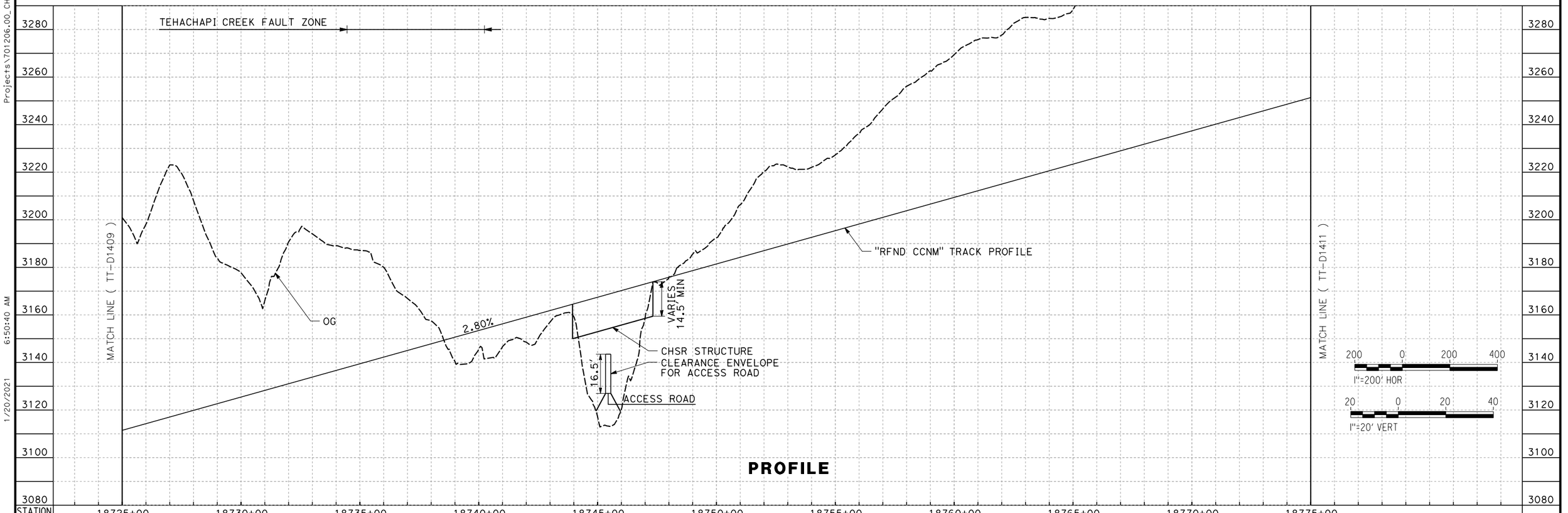
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18675+00 TO 18725+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1409
SCALE AS SHOWN
SHEET NO. 29

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
9	220	22,050	5.80	2.98	1,700	10,637.07
9N	220	22,024.75	5.80	2.98	1,700	10,622.94





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CARSON
DRAWN BY: A. CARSON
CHECKED BY: S. LANDOLT
IN CHARGE: G. CAMPBELL
DATE: 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

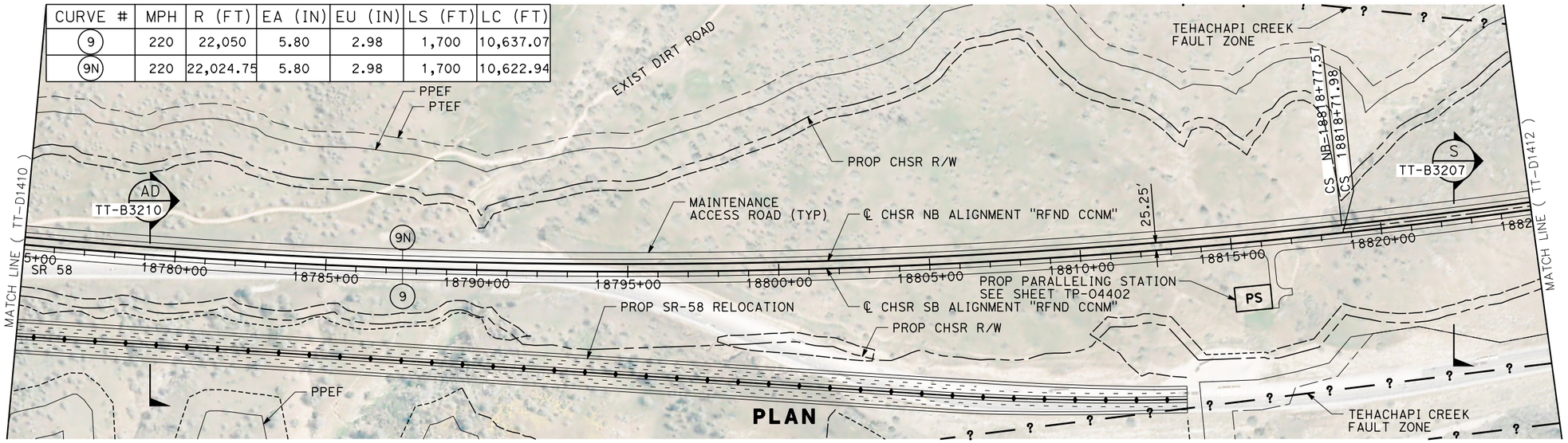
T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

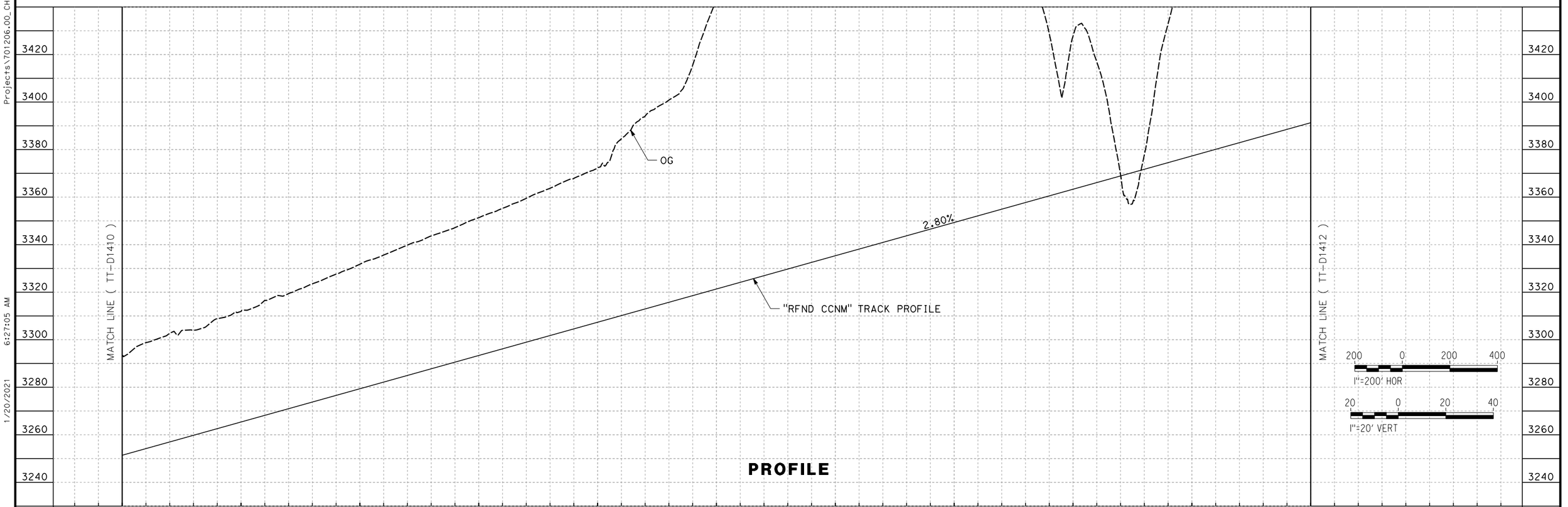
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18725+00 TO 18775+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1410
SCALE AS SHOWN
SHEET NO. 30

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
9	220	22,050	5.80	2.98	1,700	10,637.07
9N	220	22,024.75	5.80	2.98	1,700	10,622.94



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CARSON
DRAWN BY: A. CARSON
CHECKED BY: S. LANDOLT
IN CHARGE: G. CAMPBELL
DATE: 01/29/2021

RECORD SET
PEPD
SUBMITTAL

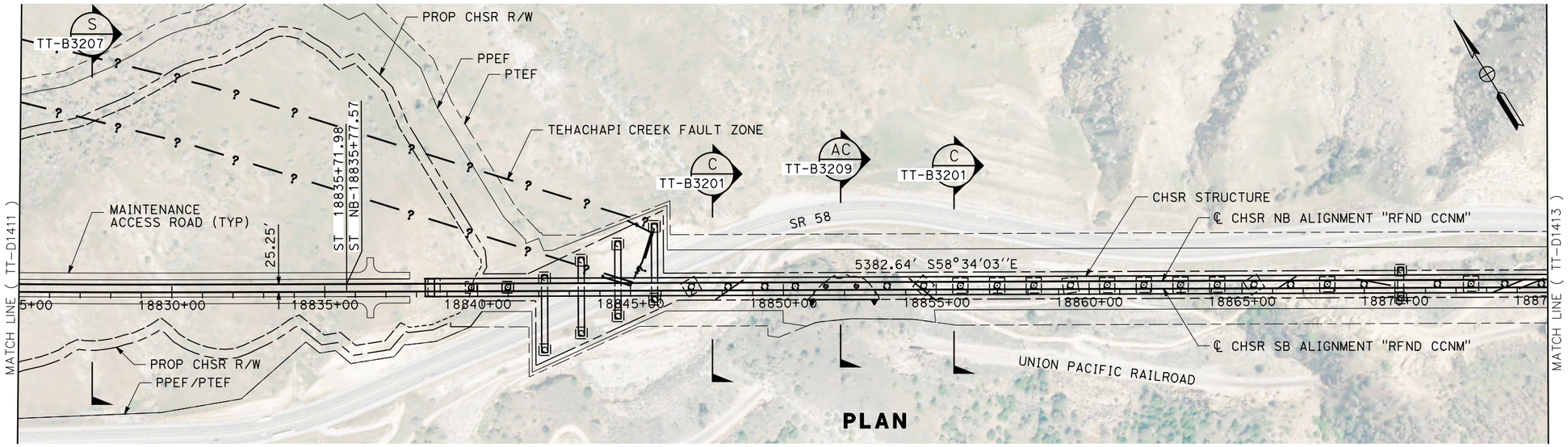
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

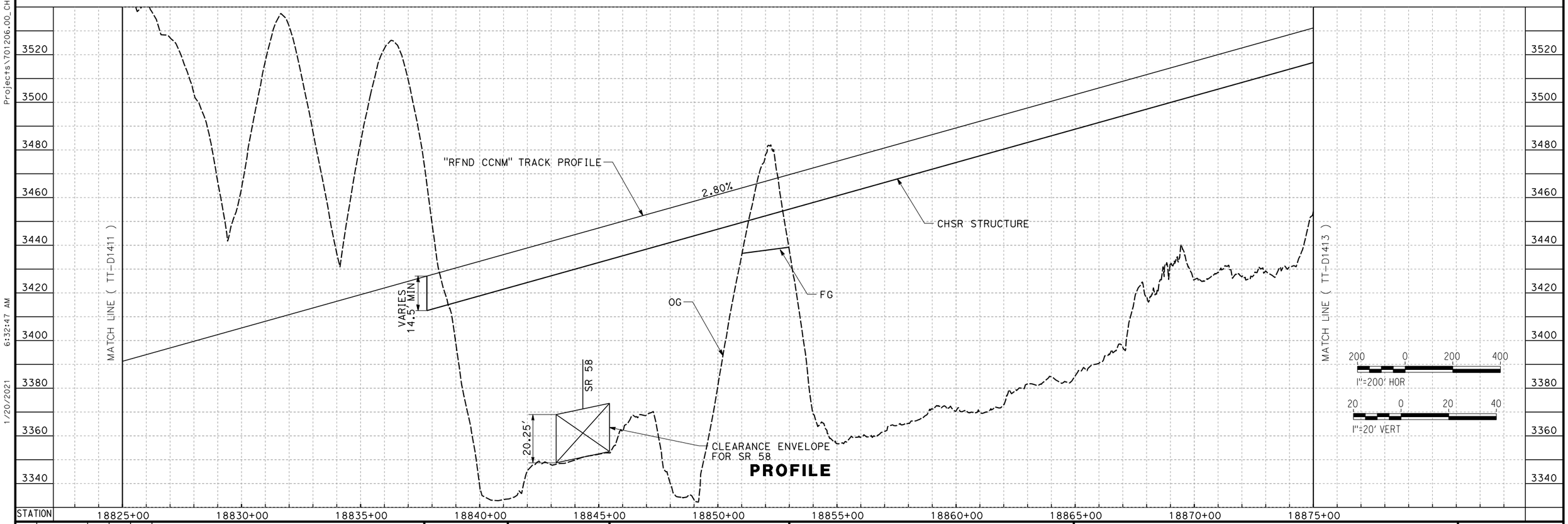
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18775+00 TO 18825+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1411
SCALE AS SHOWN
SHEET NO. 31



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

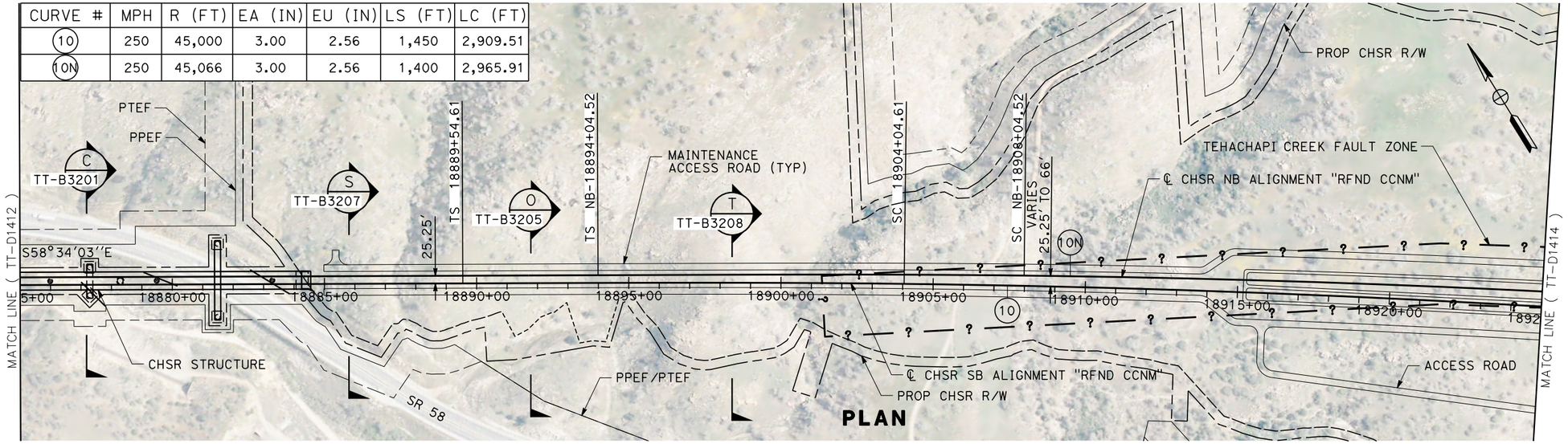
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE

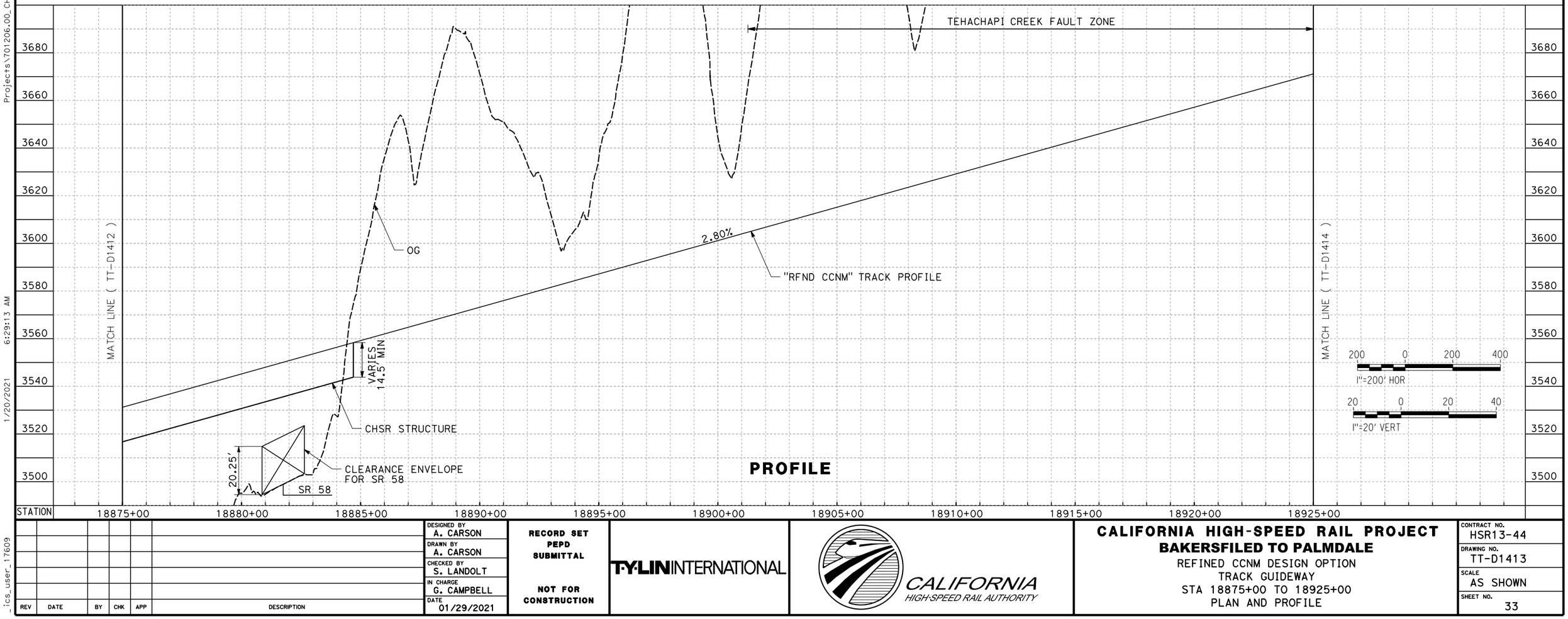
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18825+00 TO 18875+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1412
SCALE AS SHOWN
SHEET NO. 32

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
10	250	45,000	3.00	2.56	1,450	2,909.51
10N	250	45,066	3.00	2.56	1,400	2,965.91



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

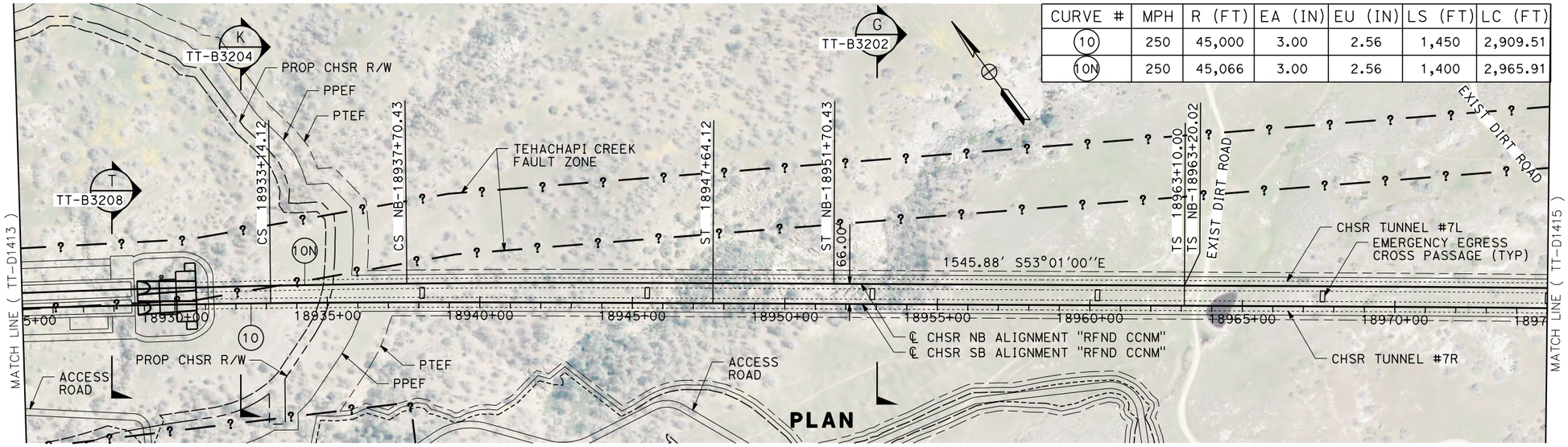
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

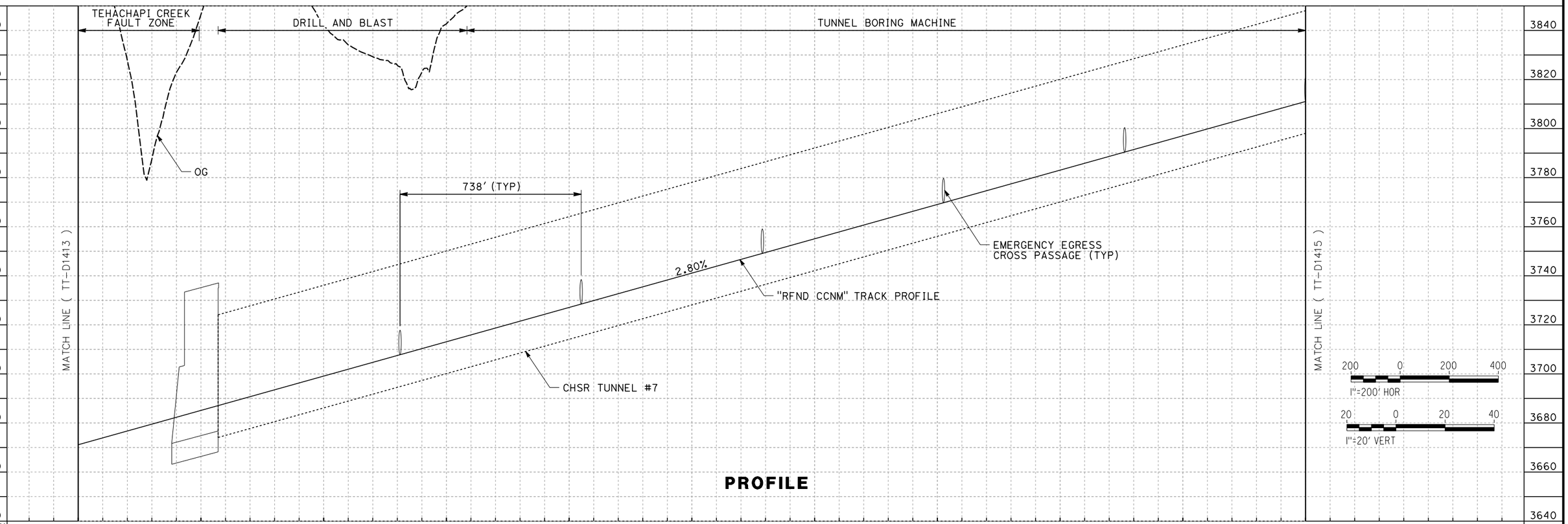
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18875+00 TO 18925+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1413
SCALE AS SHOWN
SHEET NO. 33

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
10	250	45,000	3.00	2.56	1,450	2,909.51
10N	250	45,066	3.00	2.56	1,400	2,965.91



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

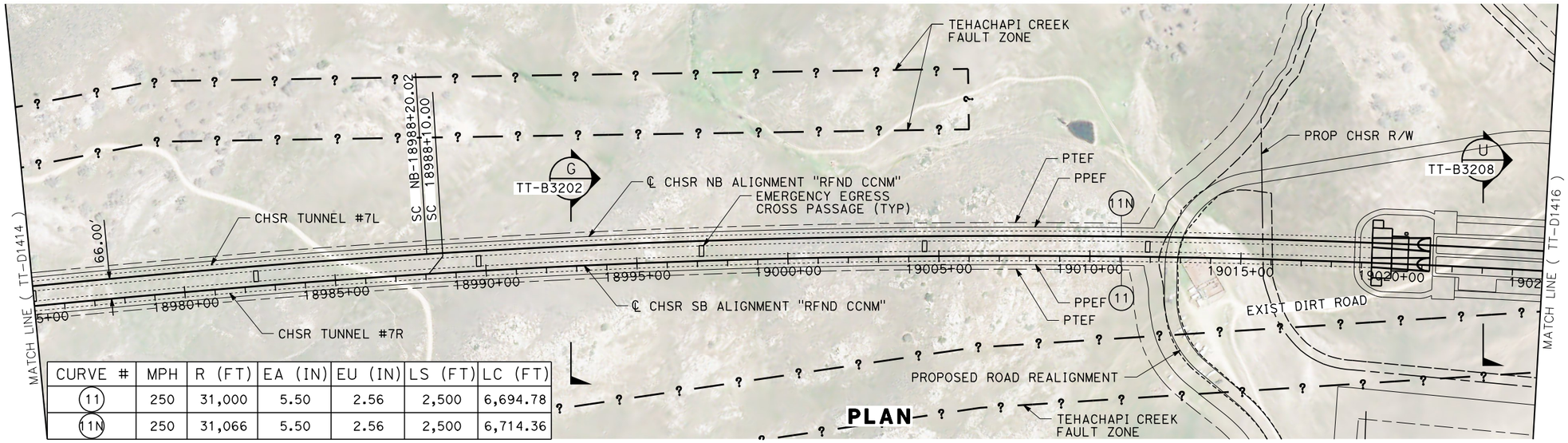
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE

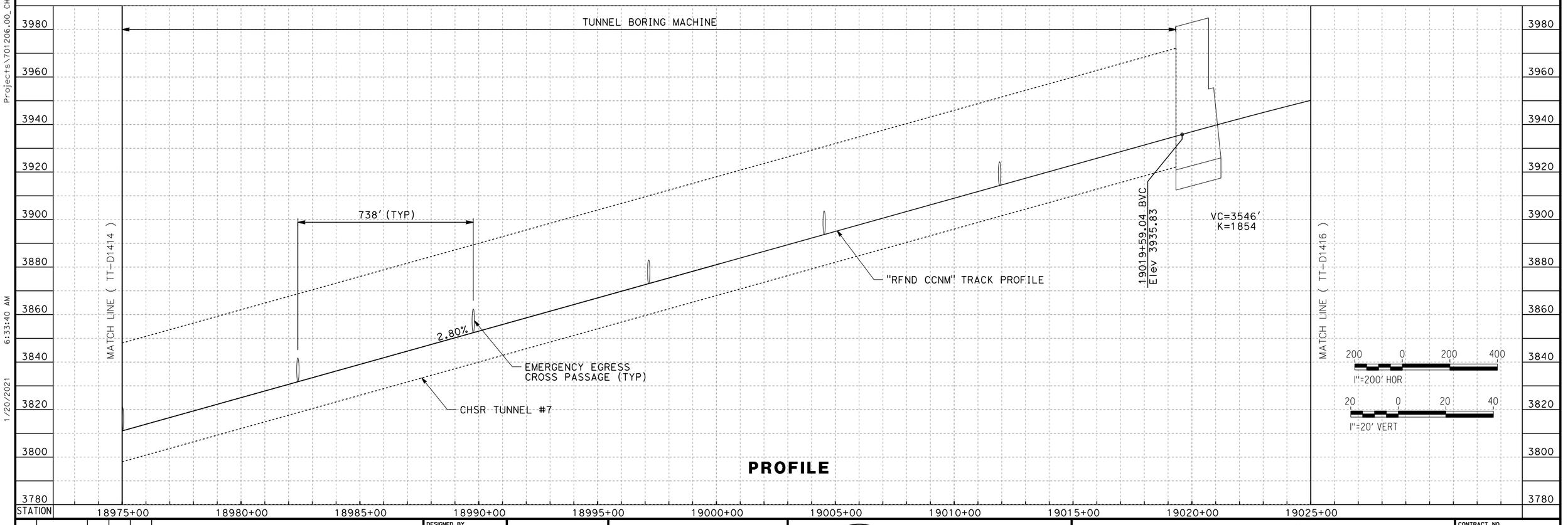
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18925+00 TO 18975+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1414
SCALE AS SHOWN
SHEET NO. 34



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
(11)	250	31,000	5.50	2.56	2,500	6,694.78
(11N)	250	31,066	5.50	2.56	2,500	6,714.36

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

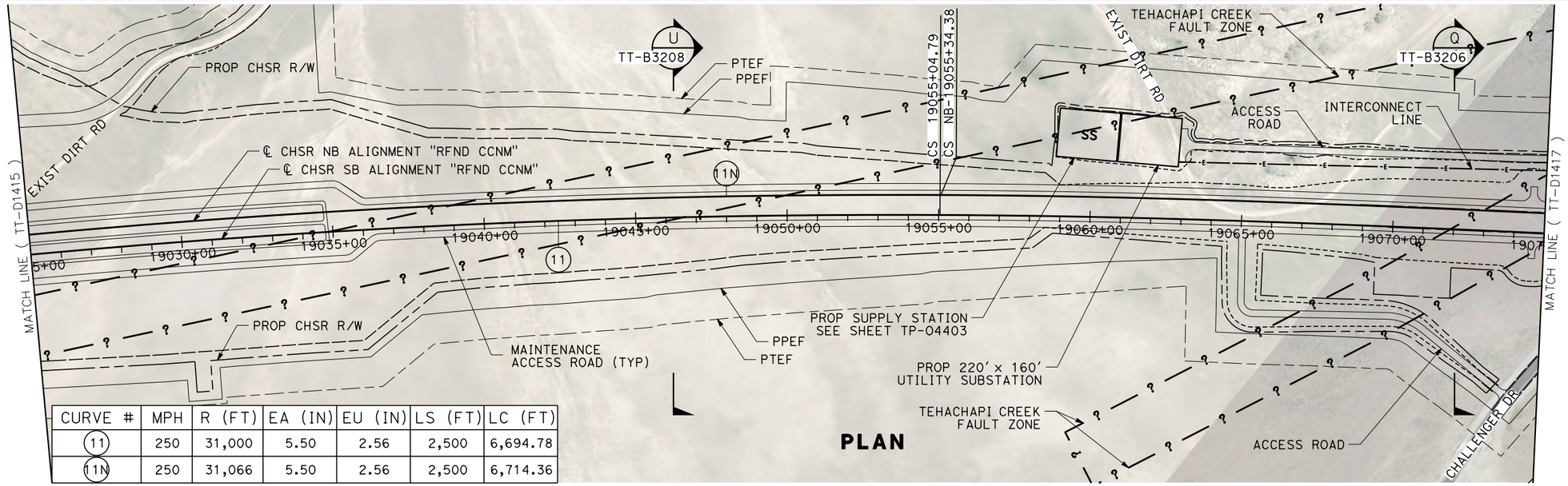
NOT FOR CONSTRUCTION

T.Y. LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

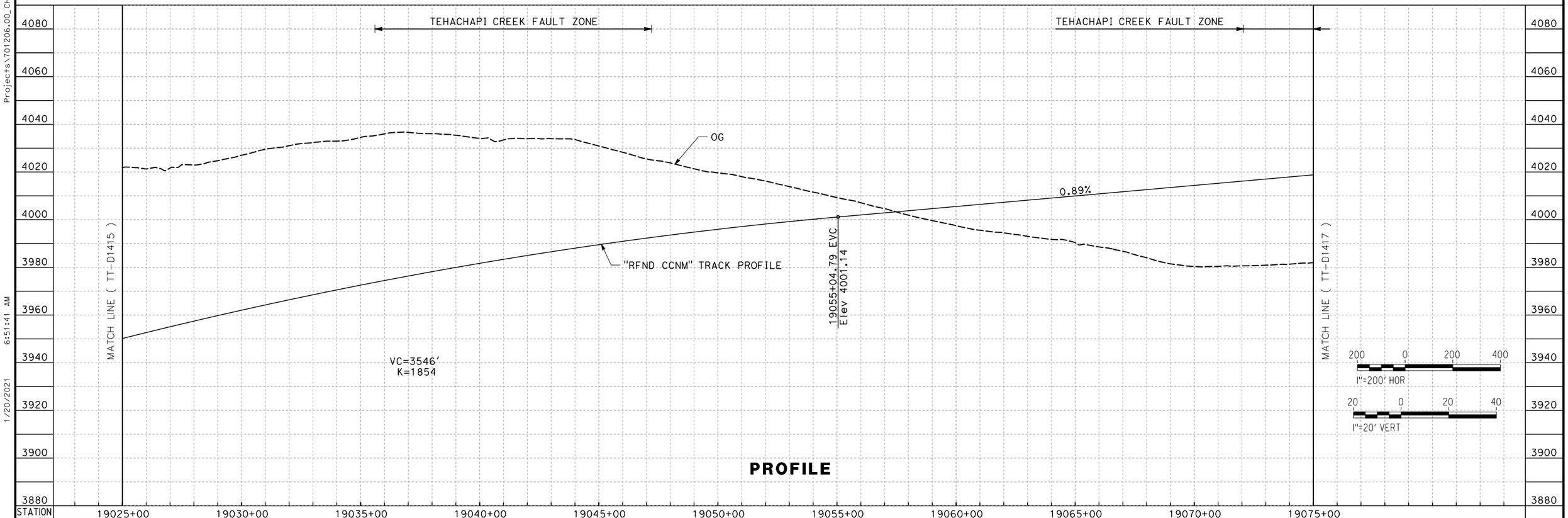
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18975+00 TO 19025+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1415
SCALE AS SHOWN
SHEET NO. 35



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
(11)	250	31,000	5.50	2.56	2,500	6,694.78
(11N)	250	31,066	5.50	2.56	2,500	6,714.36

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

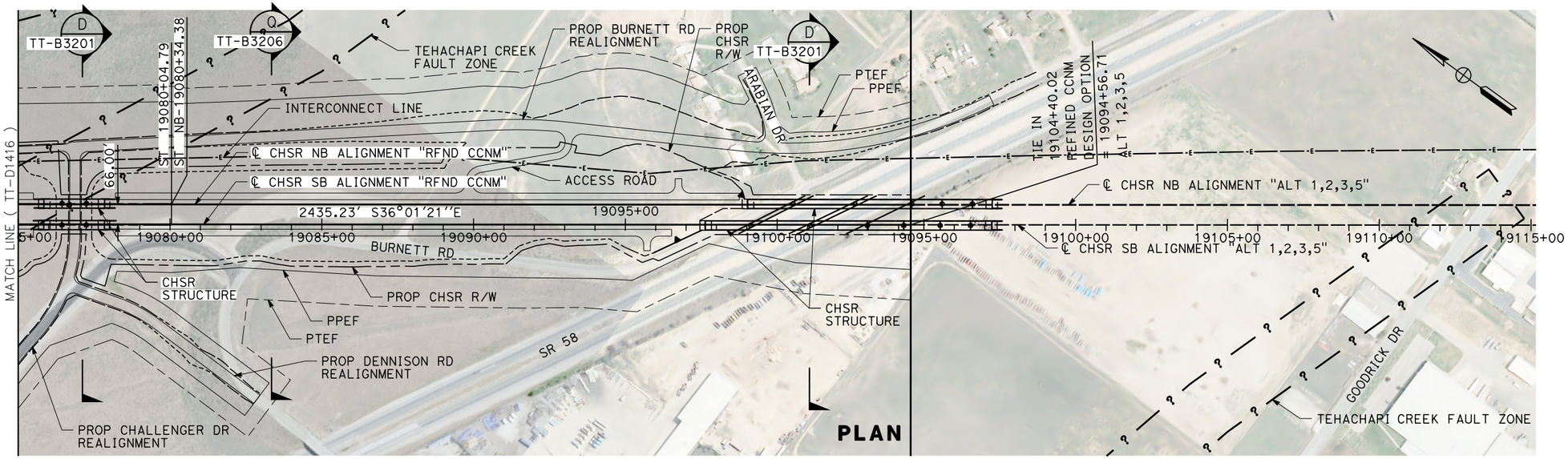
NOT FOR CONSTRUCTION

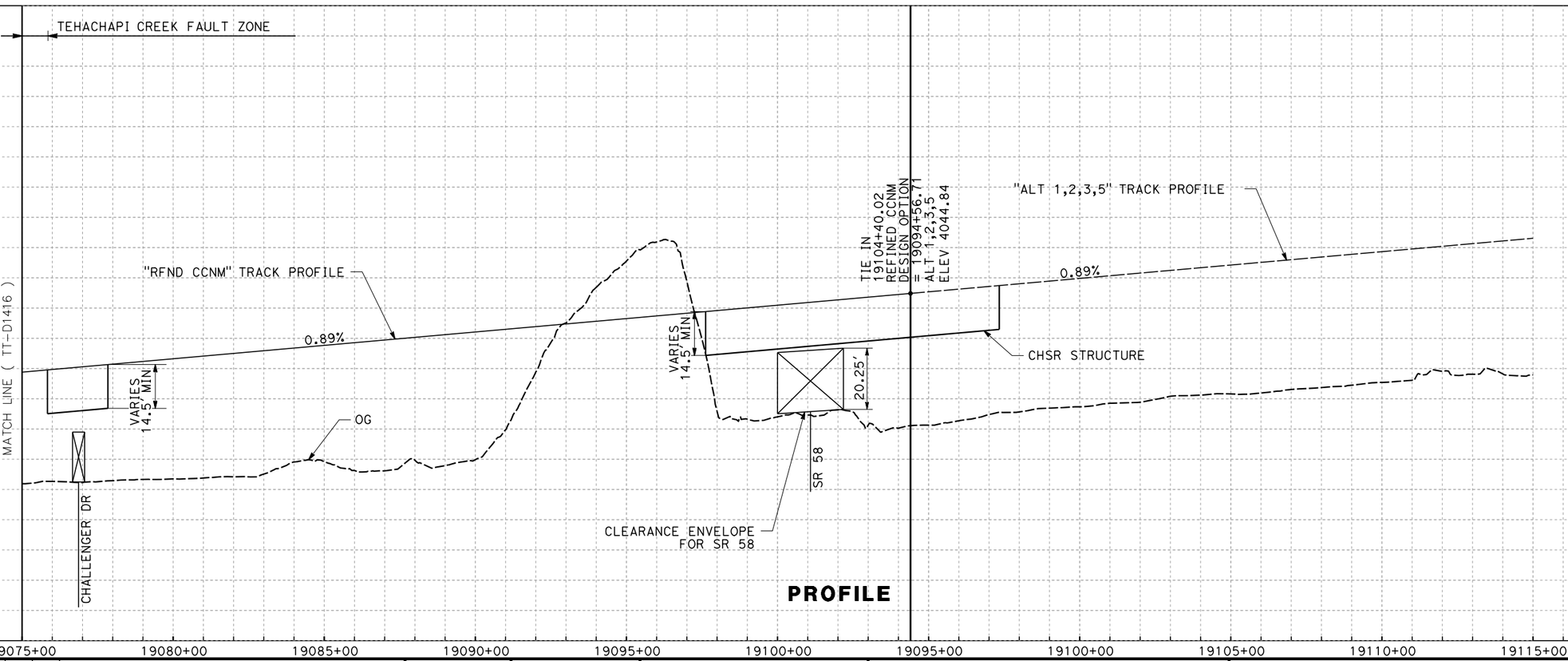
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 19025+00 TO 19075+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1416
SCALE AS SHOWN
SHEET NO. 36





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

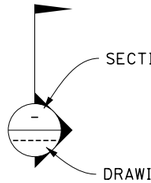
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFILED TO PALMDALE
REFINED CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 19075+00 TO 19115+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1417
SCALE AS SHOWN
SHEET NO. 37

LEGEND:

PLAN



XX — CURVE DATA (ALIGNMENTS, ROADWAYS)

XX — LINE DATA (ALIGNMENTS, ROADWAYS)

NORTH ARROW

EXIST RIGHT OF WAY

LIMITS OF EXCAVATION (CUT)

LIMITS OF EMBANKMENT (FILL)

FAULT ZONE

EXIST RETAINING WALL

PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT

PROPOSED COLUMN/FOOTING

PROPOSED FENCE

PROPOSED RETAINING WALL

PROPOSED CONCRETE BARRIER

PROPOSED RIGHT OF WAY

PROPOSED TUNNEL

PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT

SRS — STANDALONE RADIO SITE

A — AUTOMATIC TRAIN CONTROL SYSTEM SITE A

B — AUTOMATIC TRAIN CONTROL SYSTEM SITE B

D — AUTOMATIC TRAIN CONTROL SYSTEM SITE D

PLAN

E — AUTOMATIC TRAIN CONTROL SYSTEM SITE E

TRACK CROSSING PANEL

SS — SUBSTATION

SWS — SWITCHING STATION

PS — PARALLELING STATION

UTILITIES

EXISTING AQUEDUCT

EXISTING ELECTRICAL TRANSMISSION

EXISTING GAS LINE

PROFILE

ORIGINAL GROUND

PROPOSED GRADE

GENERAL NOTES

1. SB TRACK ALIGNMENT STATIONING IS PROVIDED.
2. PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT (PPEF) SHOWN IS LIMIT OF PERMANENT GROUND DISTURBANCE ASSOCIATED WITH THE PROJECT.
3. PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT (PTEF) SHOWN IS LIMIT OF TEMPORARY GROUND DISTURBANCE ASSOCIATED WITH THE PROJECT.
4. ALL UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
5. FOR DETAILED STRUCTURE DEPTH INFORMATION SEE STRUCTURAL PLAN SET.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

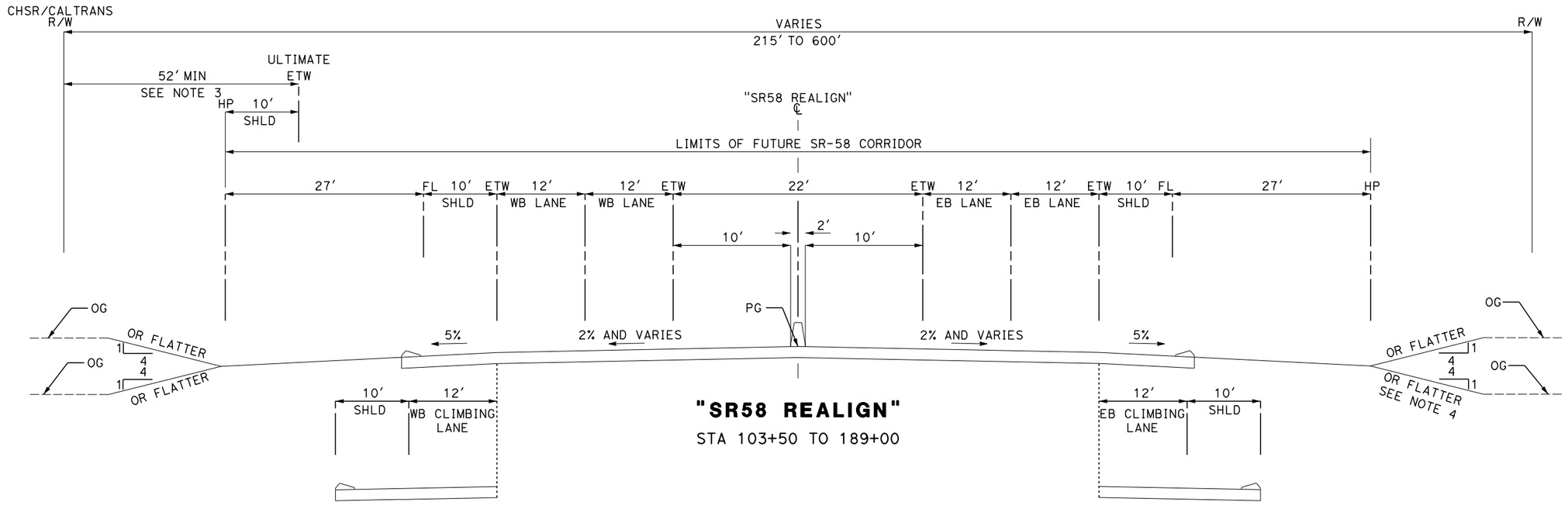
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY GENERAL
SYMBOLS, LEGEND, AND GENERAL NOTES

CONTRACT NO. HSR13-44
DRAWING NO. CV-R0101
SCALE NO SCALE
SHEET NO. 38

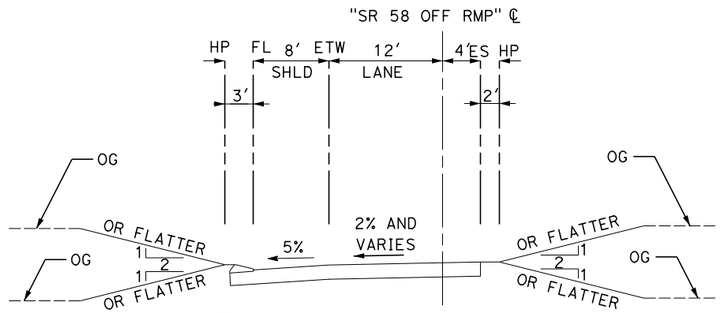


"SR58 REALIGN"

STA 103+50 TO 189+00

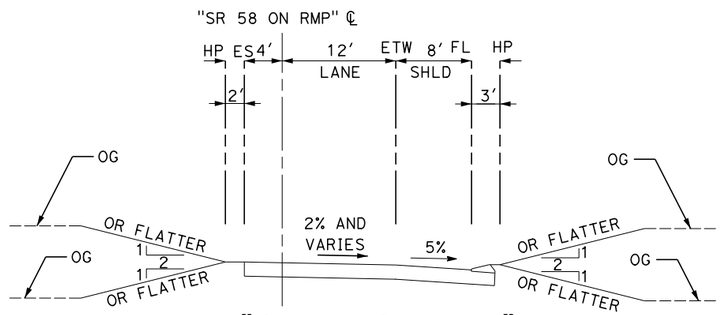
STA 128+39 TO 182+00

STA 128+39 TO 182+00



"SR 58 OFF RMP"

STA 10+00 TO 19+92



"SR 58 ON RMP"

STA 10+00 TO 21+23

NOTE:

1. AUXILIARY LANES ARE PROVIDED FROM STA 118+39 TO 128+39
2. TRUCK CLIMBING LANES ARE PROVIDED FROM STA 128+39 TO 182+00
3. A MINIMUM HORIZONTAL CLEARANCE OF 52 FEET IS PROVIDED FROM THE PLANNED ULTIMATE EDGE OF THE TRAVEL WAY (ETW) TO THE HIGH SPEED RAIL CORRIDOR IN ACCORDANCE WITH THE CALTRANS HIGHWAY DESIGN MANUAL.
4. SR-58 EASTBOUND FILL SLOPE SHALL BE 2:1 OR FLATTER FROM STATION 110+05 TO 132+89 AND FROM STATION 177+14 TO 189+00

8 0 8 16
1"=8' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

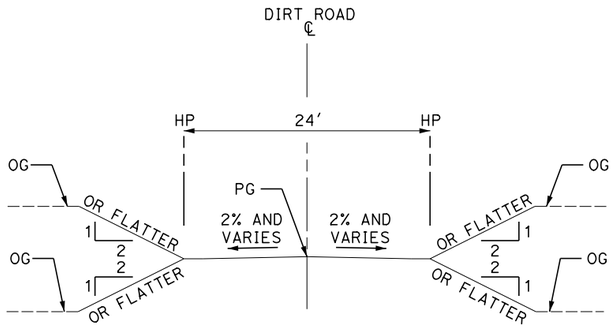
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY GENERAL
TYPICAL SECTIONS
SHEET 1 OF 2

CONTRACT NO. HSR13-44
DRAWING NO. CV-R0102
SCALE AS SHOWN
SHEET NO. 39

NOTE:

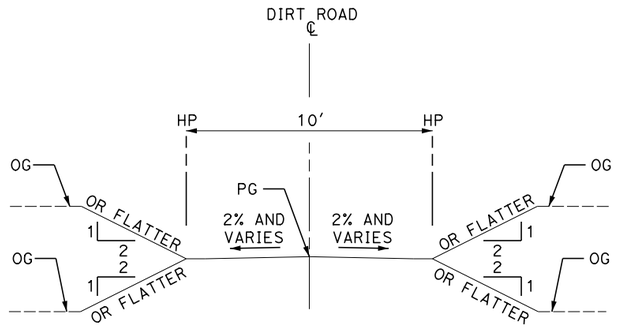
1. DIRT ROADS DESIGNED TO MAINTAIN EXISTING ACCESS AND ARE NOT DESIGNED TO PROVIDE HSR ACCESS.

2. ACCESS ROADS SHALL BE PCC PAVED FROM THE FOLLOWING STATIONS:
   ACCESS ROAD "18507" - STA 29+62 TO 36+53 & 56+50 TO 59+32.
   ACCESS ROAD "18601" - STA 36+49 TO 42+64, 69+42 TO 71+74, STA 82+05 TO 84+32, & STA 101+54 TO 120+65.
   ACCESS ROAD "18607" - STA 14+77 TO 18+43.



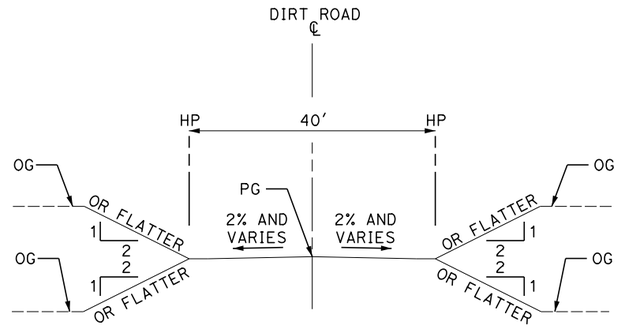
DIRT ROAD

"18472"



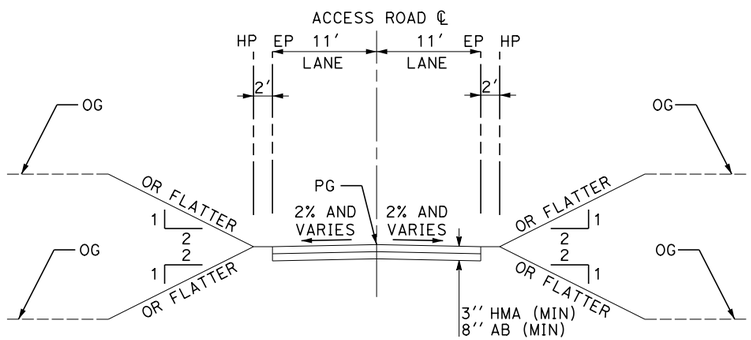
DIRT ROAD

"18492"
"18567"



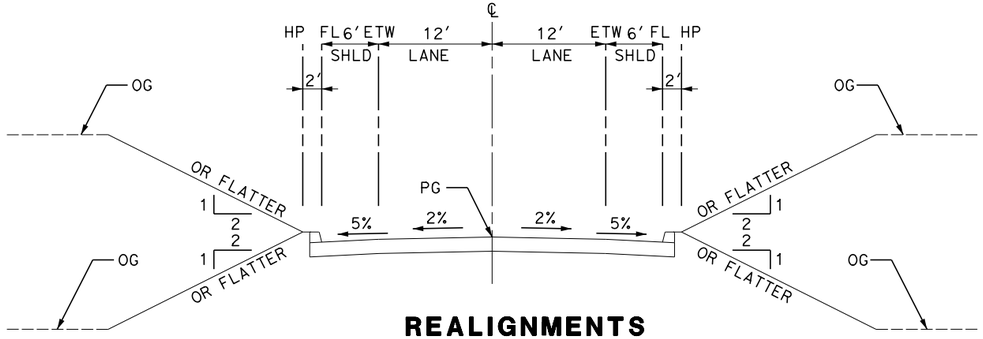
DIRT ROAD

"19013"



ACCESS ROADS

"18457"
"18487"
"18507" (SEE NOTE 2)
"18601" (SEE NOTE 2)
"18580"
"18580_PS"
"18594"
"18607" (SEE NOTE 2)
"18745"
"18739"
"18920"
"19063"



REALIGNMENTS

"ARAB"
"BRNT"
"CHALL"
"DENN"

8 0 8 16
1"=8′ HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

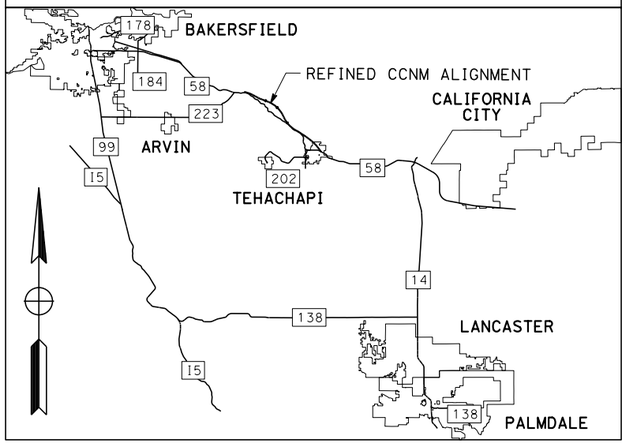
TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

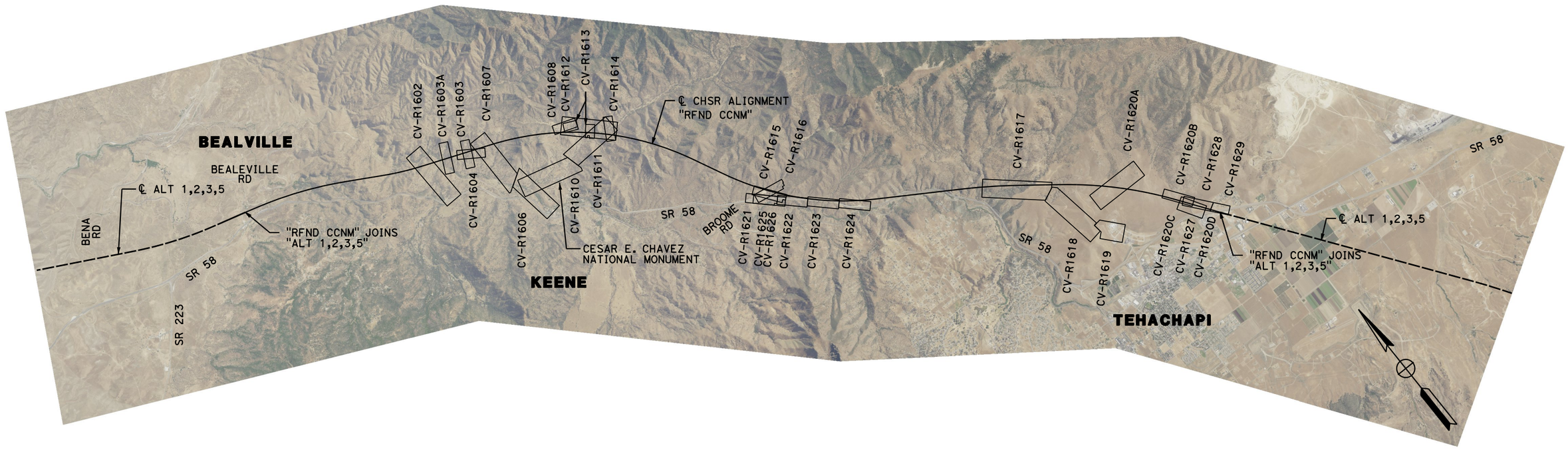
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY GENERAL
TYPICAL SECTIONS
SHEET 2 OF 2

CONTRACT NO. HSR13-44
DRAWING NO. CV-R0103
SCALE AS SHOWN
SHEET NO. 40

VICINITY MAP



REFINED CCNM DESIGN OPTION



4000 0 4000 8000
1"=4000' HOR

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY GENERAL
KEY MAP

CONTRACT NO. HSR13-44
DRAWING NO. CV-R0104
SCALE AS SHOWN
SHEET NO. 41

LINE DATA		
No.	BEARING	DISTANCE
1	N 69°54′18" E	14.38′
2	N 20°05′42" W	182.95′
3	N 1°44′54" E	5.64′
4	N 58°06′28" W	112.37′
5	N 25°47′20" W	106.93′
6	N 78°46′55" W	56.38′
7	N 8°05′54" E	85.37′
8	N 11°18′17" W	85.49′
9	N 11°34′51" E	156.55′
10	N 23°36′13" W	302.21′
11	N 22°49′25" E	65.03′
12	N 7°20′56" W	69.72′
13	N 46°37′35" E	110.84′
14	N 72°26′18" E	75.10′
15	N 29°40′44" E	116.62′
16	N 43°55′31" E	69.11′
17	N 25°51′20" E	226.64′
18	N 2°43′50" W	54.10′
19	N 55°28′02" W	90.55′
20	N 60°48′26" W	73.70′
21	N 15°35′54" W	41.99′
22	N 20°49′06" E	302.52′

CURVE DATA				
No.	R	Δ	T	L
1	100.00′	90°00′00"	100.00′	157.08′
2	100.00′	21°50′36"	19.30′	38.12′
3	45.00′	59°51′22"	25.91′	47.01′
4	100.00′	32°19′09"	28.98′	56.41′
5	70.00′	52°59′35"	34.90′	64.74′
6	70.00′	86°52′49"	66.29′	106.14′
7	45.00′	19°24′11"	7.69′	15.24′
8	100.00′	22°53′07"	20.24′	39.94′
9	300.00′	35°11′04"	95.12′	184.23′
10	100.00′	46°25′39"	42.89′	81.03′
11	75.00′	30°10′21"	20.22′	39.50′
12	75.00′	53°58′30"	38.19′	70.65′
13	75.00′	25°48′44"	17.19′	33.79′
14	75.00′	42°45′35"	29.36′	55.97′
15	75.00′	14°14′47"	9.37′	18.65′
16	75.00′	18°04′11"	11.93′	23.65′
17	100.00′	28°35′10"	25.48′	49.89′
18	50.00′	52°44′11"	24.79′	46.02′
19	100.00′	5°20′25"	4.66′	9.32′
20	100.00′	45°12′32"	41.64′	78.90′
21	100.00′	36°25′00"	32.89′	63.56′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

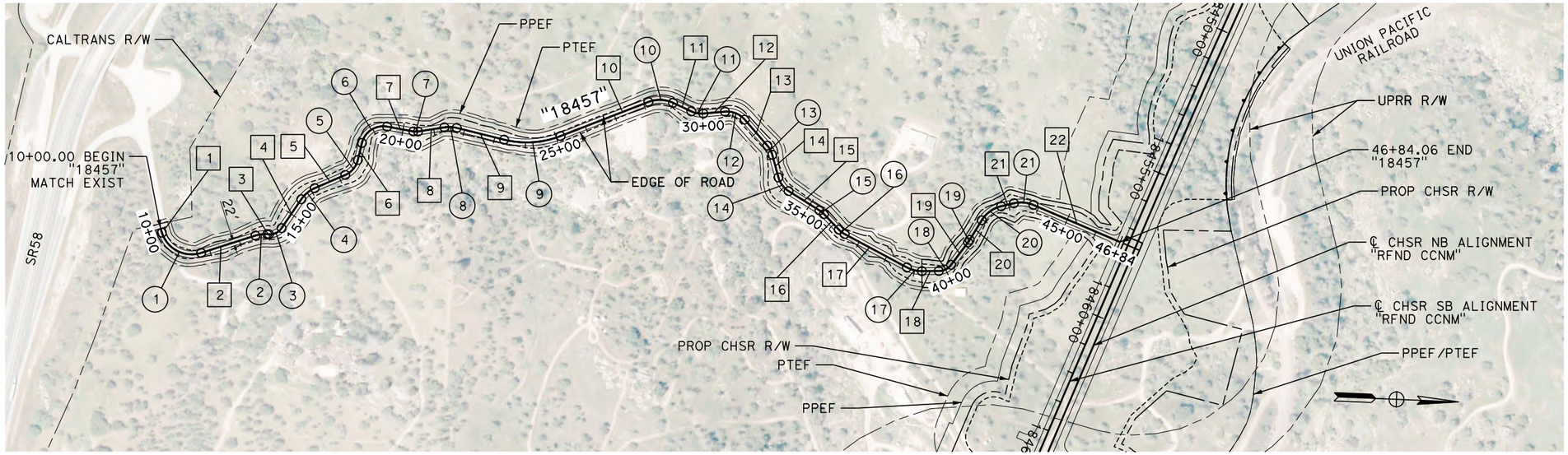
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

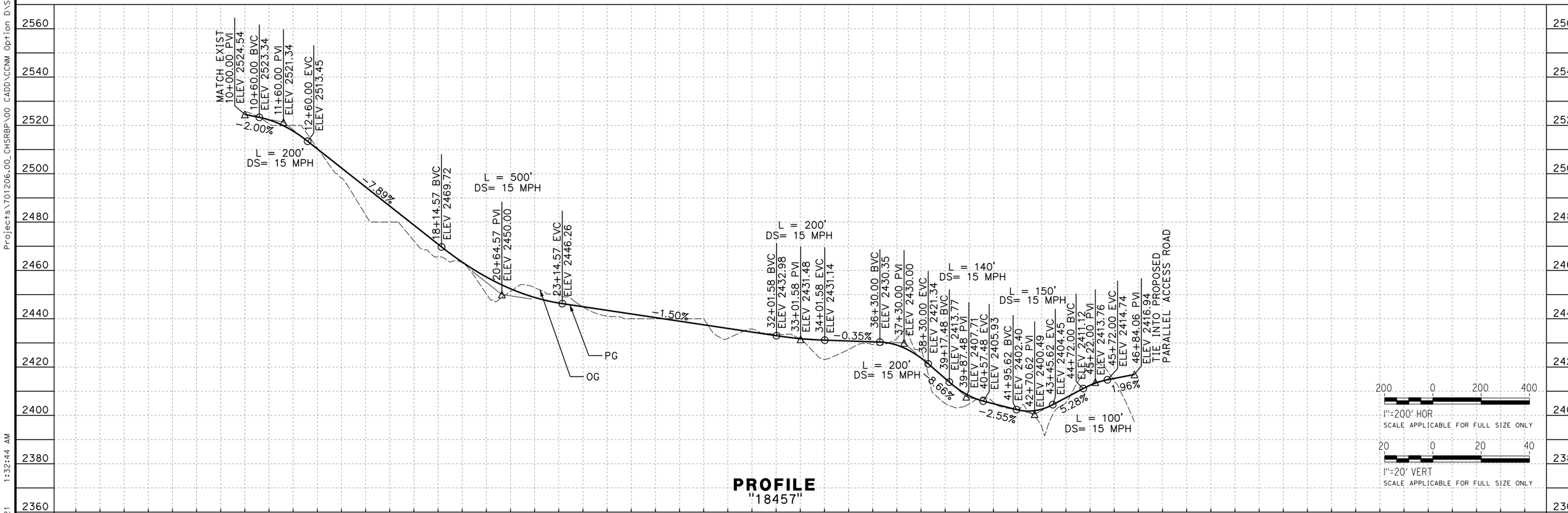
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18457"
HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1601
SCALE NO SCALE
SHEET NO. 42



PLAN



PROFILE
"18457"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

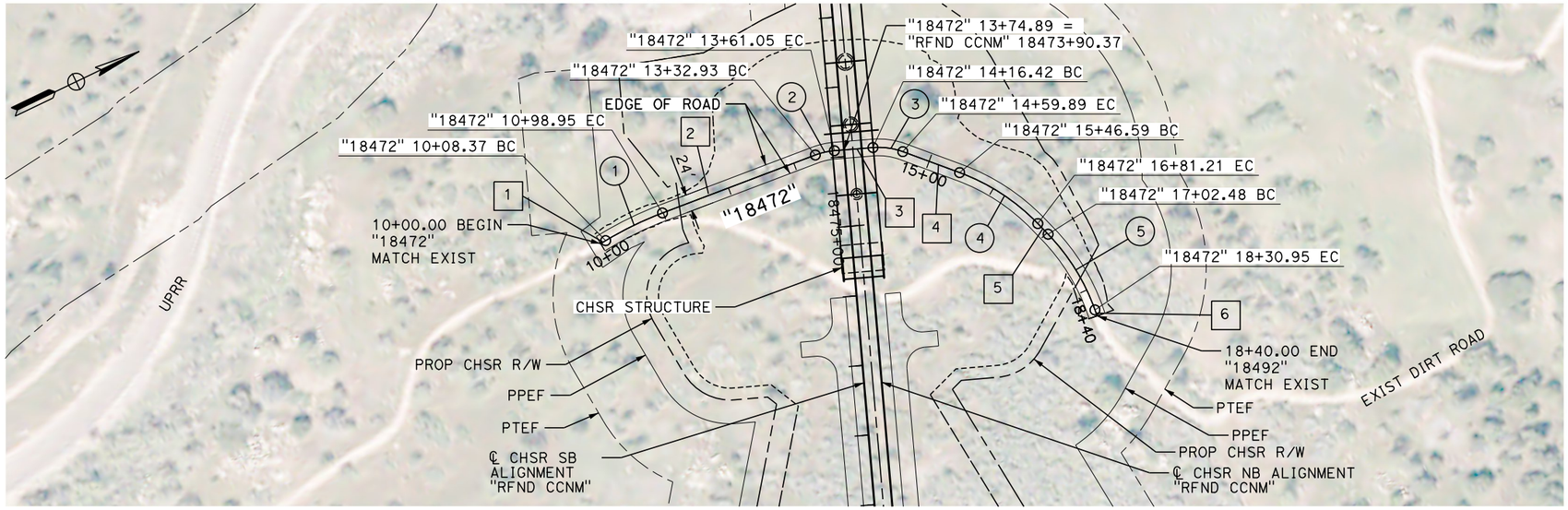
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18457"
PLAN AND PROFILE

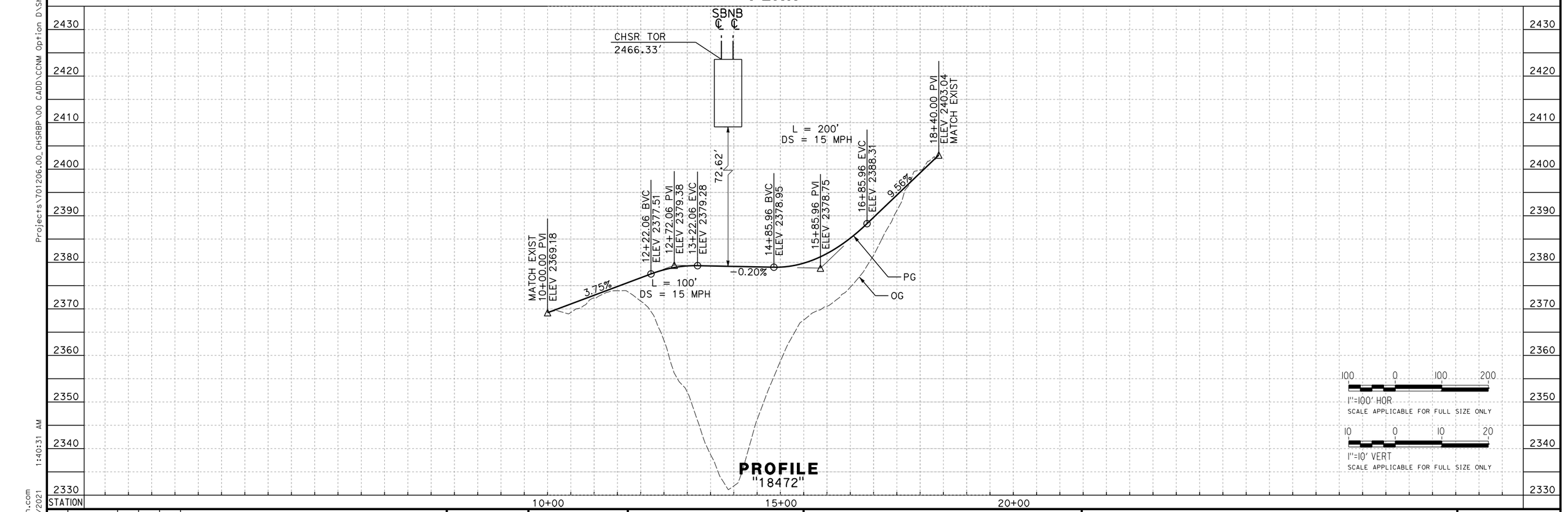
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1602
SCALE AS SHOWN
SHEET NO. 43



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	N 5°30'12" W	8.37'
2	N 4°52'35" E	233.98'
3	N 20°59'08" E	55.37'
4	N 45°53'28" E	86.70'
5	N 71°36'54" E	21.20'
6	N 83°50'55" W	9.05'

CURVE DATA				
No.	R	Δ	T	L
1	500.00'	10°22'47"	45.41'	90.58'
2	100.00'	16°06'33"	14.15'	28.02'
3	100.00'	24°54'20"	22.08'	43.47'
4	300.00'	25°43'26"	68.50'	134.69'
5	300.00'	24°32'11"	65.24'	128.47'



PROFILE
"18472"

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

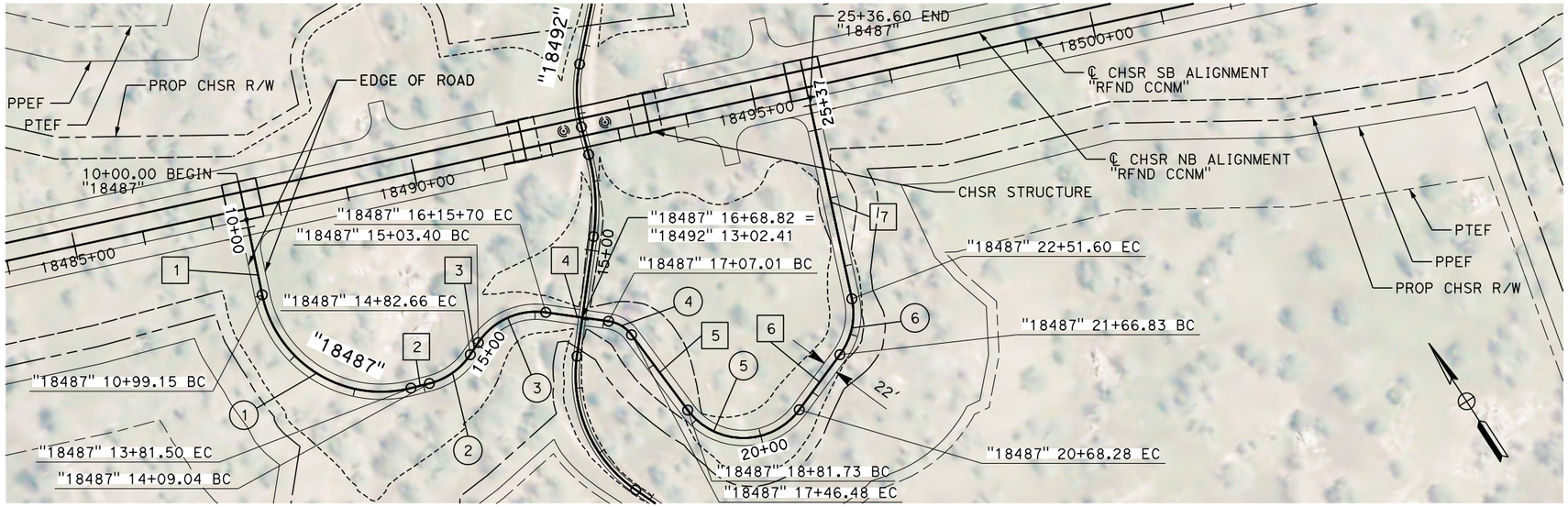
NOT FOR CONSTRUCTION

TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18472"
PLAN AND PROFILE

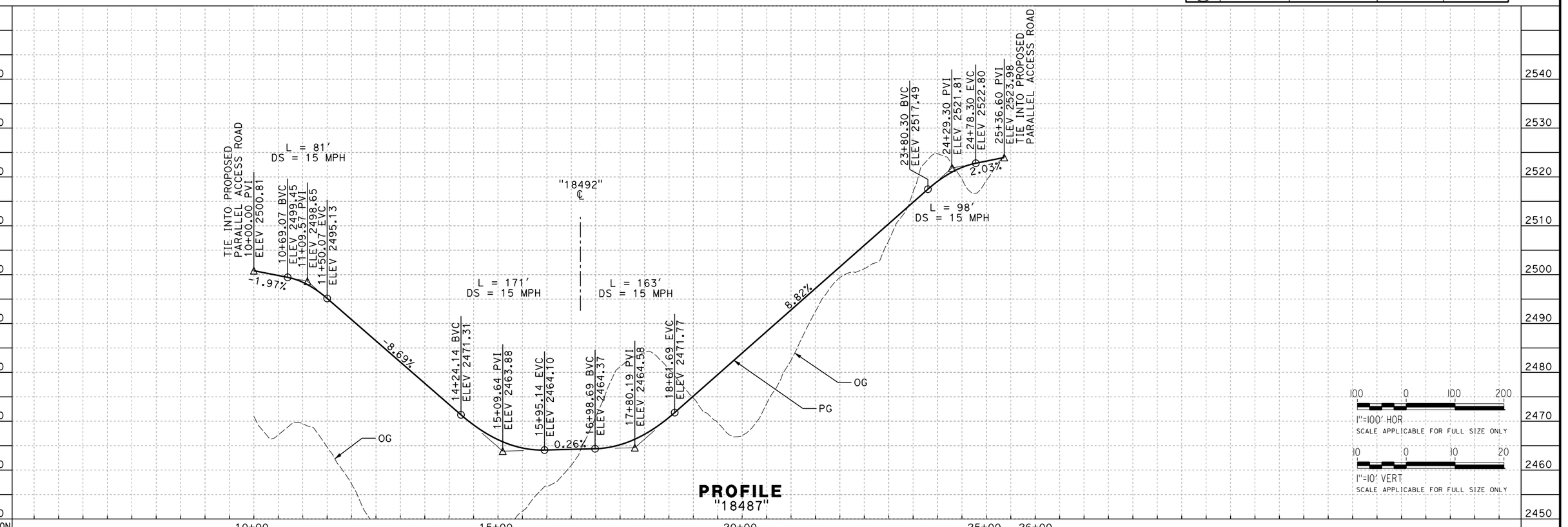
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1603A
SCALE AS SHOWN
SHEET NO. 44



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	S 21°16′50" E	99.15′
2	S 71°09′36" E	27.54′
3	N 66°39′29" E	20.74′
4	S 49°00′06" E	91.32′
5	S 3°46′09" E	135.25′
6	N 69°20′55" E	98.55′
7	N 20°46′36" E	285.00′

CURVE DATA				
No.	R	Δ	T	L
1	175.00′	92°26′26"	182.62′	282.34′
2	100.00′	42°10′55"	38.57′	73.62′
3	100.00′	64°20′25"	62.90′	112.29′
4	50.00′	45°13′57"	20.83′	39.47′
5	100.00′	106°52′56"	134.85′	186.54′
6	100.00′	48°34′19"	45.12′	84.77′



PROFILE
"18487"

100 0 100 200
1"=100′ HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10′ VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

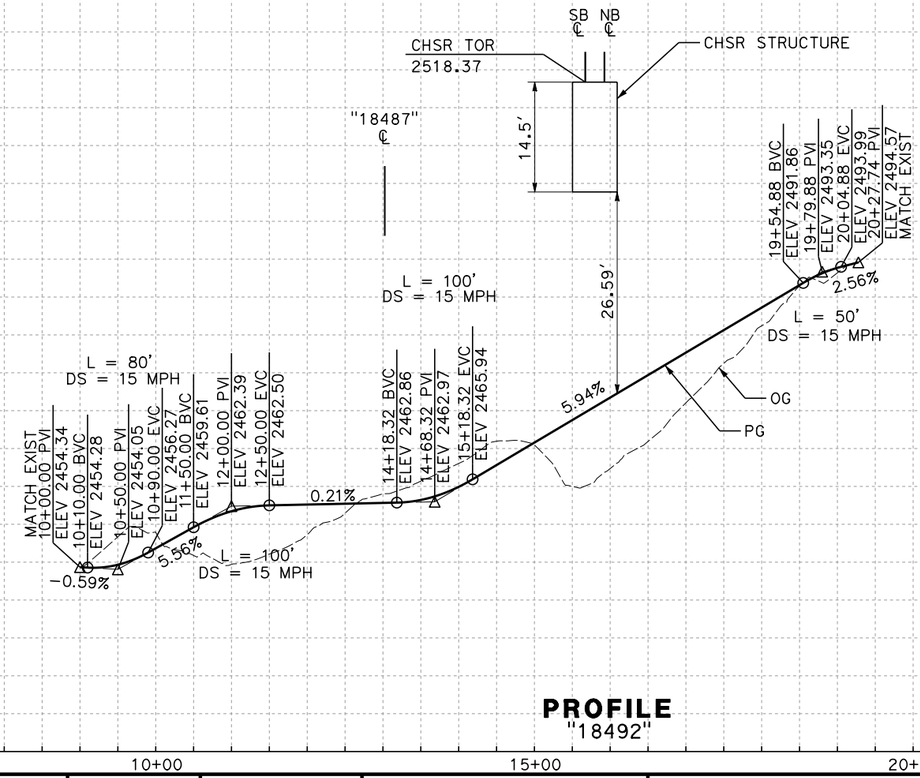
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18487"
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1603B
SCALE AS SHOWN
SHEET NO. 45

PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	N 22°29′20" W	124.74′
2	N 40°55′13" E	174.07′
3	N 18°10′58" E	41.04′
4	N 44°23′52" E	161.95′
5	N 26°56′11" E	33.09′

CURVE DATA				
No.	R	Δ	T	L
1	200.00′	63°24′32"	123.54′	221.34′
2	300.00′	22°44′14"	60.32′	119.05′
3	200.00′	26°12′54"	46.57′	91.51′
4	200.00′	17°27′41"	30.71′	60.95′



PROFILE
"18492"

100 0 100 200
1"=100′ HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10′ VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
DIRT ROAD "18492"
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1604
SCALE AS SHOWN
SHEET NO. 46

LINE DATA		
No.	BEARING	DISTANCE
1	N 16°06'22" W	30.53'
2	N 1°56'15" E	292.63'
3	N 2°33'42" W	562.21'
4	N 71°47'59" E	105.94'
5	N 14°10'28" E	216.56'
6	N 5°50'36" E	102.29'
7	N 10°27'20" W	111.60'
8	N 3°21'11" E	498.99'
9	N 26°08'20" E	81.16'
10	N 9°37'19" W	139.06'
11	N 29°08'31" E	244.02'
12	N 70°50'12" W	113.52'
13	N 50°04'50" W	75.93'
14	N 36°03'50" W	129.65'
15	N 66°30'37" W	66.24'
16	N 36°58'47" W	99.88'
17	N 31°59'39" W	121.49'
18	N 56°23'50" W	58.34'
19	N 44°59'37" W	227.04'
20	N 61°56'46" W	118.85'
21	N 27°26'35" W	79.39'
22	N 9°52'43" W	130.74'
23	N 16°11'17" W	92.94'
24	N 48°43'29" E	40.47'
25	N 5°10'37" W	42.52'
26	N 30°50'34" E	118.37'
27	N 8°38'45" E	47.23'
28	N 27°08'35" E	156.67'
29	N 37°02'06" E	334.43'
30	N 2°40'27" E	59.12'
31	N 48°15'58" E	161.19'
32	N 29°49'24" E	163.66'
33	N 31°42'01" E	174.62'
34	N 60°31'34" W	323.79'
35	N 43°51'52" W	179.93'
36	N 20°46'25" E	24.56'

CURVE DATA				
No.	R	Δ	T	L
1	65.00'	18°02'37"	10.32'	20.47'
2	500.00'	4°29'57"	19.64'	39.26'
3	45.00'	74°21'41"	34.13'	58.40'
4	45.00'	57°37'31"	24.75'	45.26'
5	300.00'	8°19'52"	21.85'	43.62'
6	45.00'	16°17'56"	6.44'	12.80'
7	45.00'	13°48'31"	5.45'	10.85'
8	45.00'	22°47'09"	9.07'	17.90'
9	45.00'	35°45'39"	14.52'	28.09'
10	45.00'	38°45'50"	15.83'	30.45'
11	45.00'	99°58'44"	53.61'	78.52'
12	500.00'	20°45'23"	91.57'	181.13'
13	45.00'	14°01'00"	5.53'	11.01'
14	100.00'	30°26'47"	27.21'	53.14'
15	250.00'	29°31'50"	65.89'	128.85'
16	3000.00'	4°59'08"	130.61'	261.05'
17	200.00'	24°24'12"	43.25'	85.18'
18	300.00'	11°24'13"	29.95'	59.71'
19	300.00'	16°57'09"	44.71'	88.76'
20	150.00'	34°30'11"	46.58'	90.33'
21	500.00'	17°33'52"	77.25'	153.28'
22	250.00'	6°18'35"	13.78'	27.53'
23	250.00'	64°54'47"	159.00'	283.24'
24	100.00'	53°54'06"	50.84'	94.08'
25	150.00'	36°01'11"	48.77'	94.30'
26	500.00'	22°11'50"	98.08'	193.71'
27	250.00'	18°29'50"	40.71'	80.71'
28	750.00'	9°53'31"	64.90'	129.49'
29	150.00'	34°21'39"	46.38'	89.96'
30	100.00'	45°35'31"	42.03'	79.57'
31	500.00'	18°26'35"	81.17'	160.95'
32	2000.00'	1°52'37"	32.76'	65.52'
33	100.00'	92°13'35"	103.96'	160.97'
34	200.00'	16°39'43"	29.29'	58.16'
35	50.00'	64°38'17"	31.63'	56.41'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

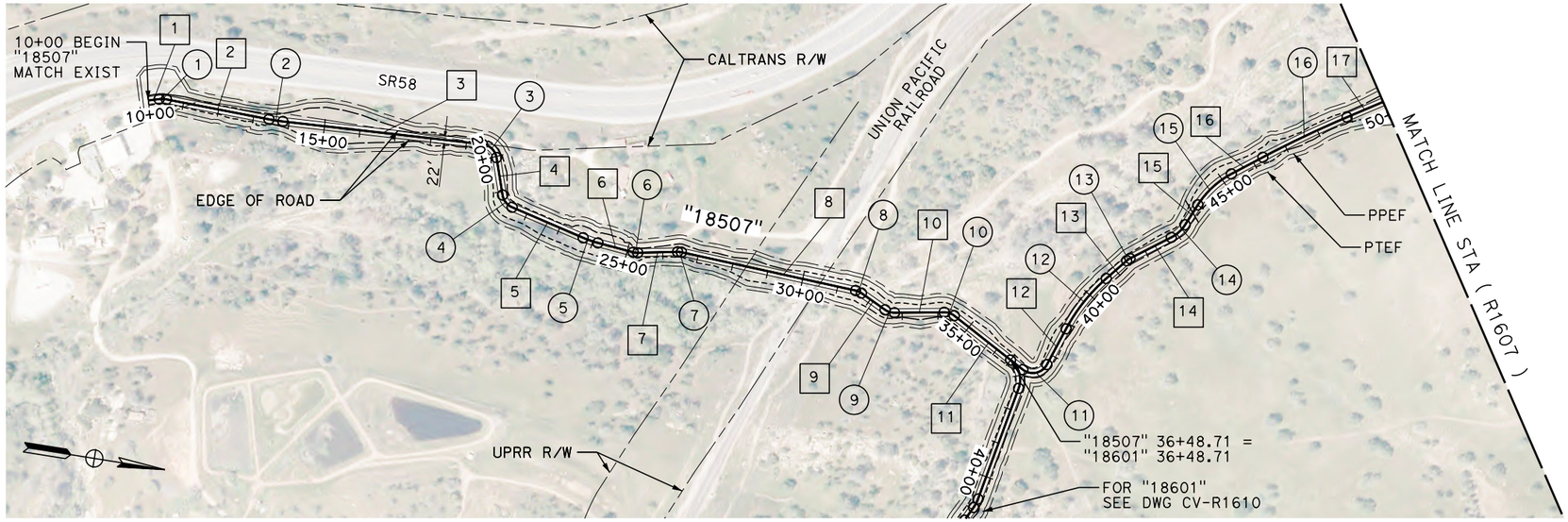
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

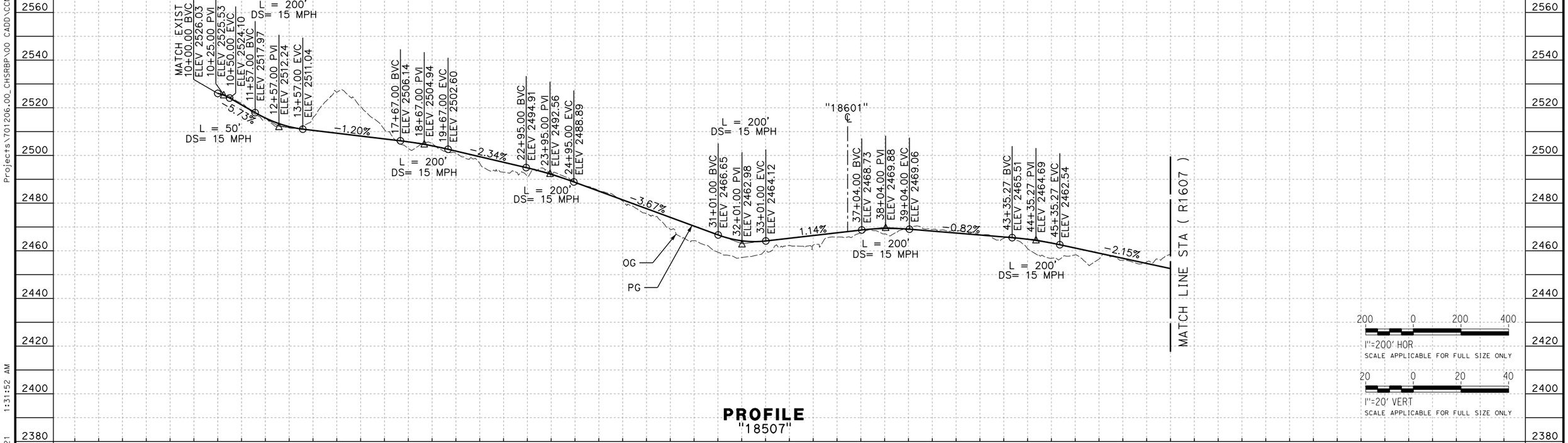
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18507"
HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1605
SCALE NO SCALE
SHEET NO. 47



PLAN



PROFILE
"18507"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

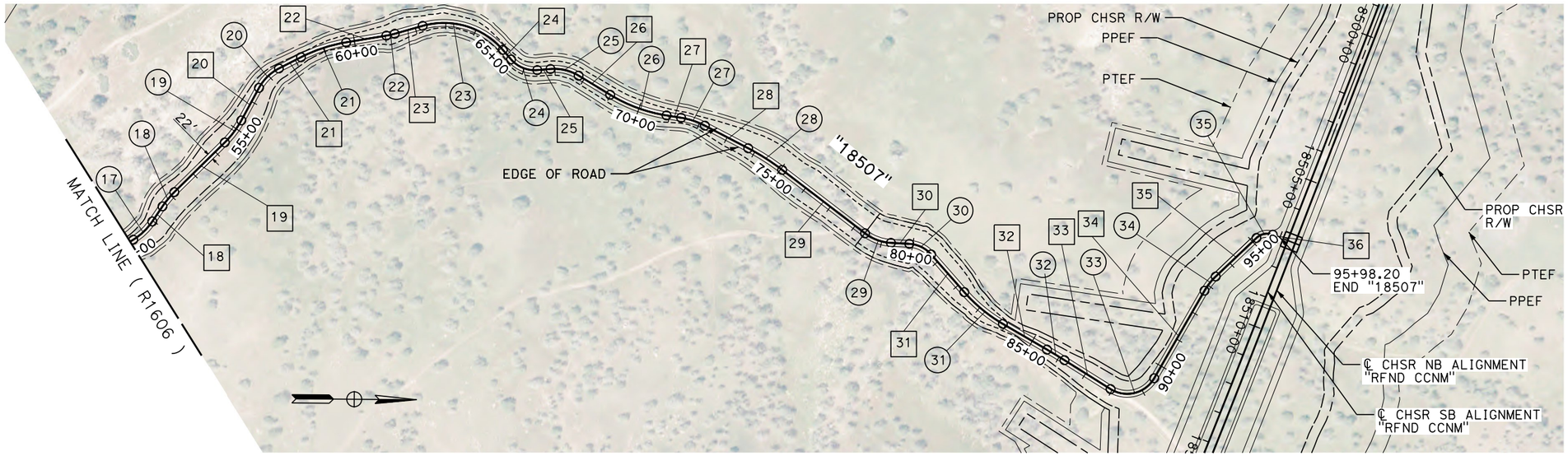
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

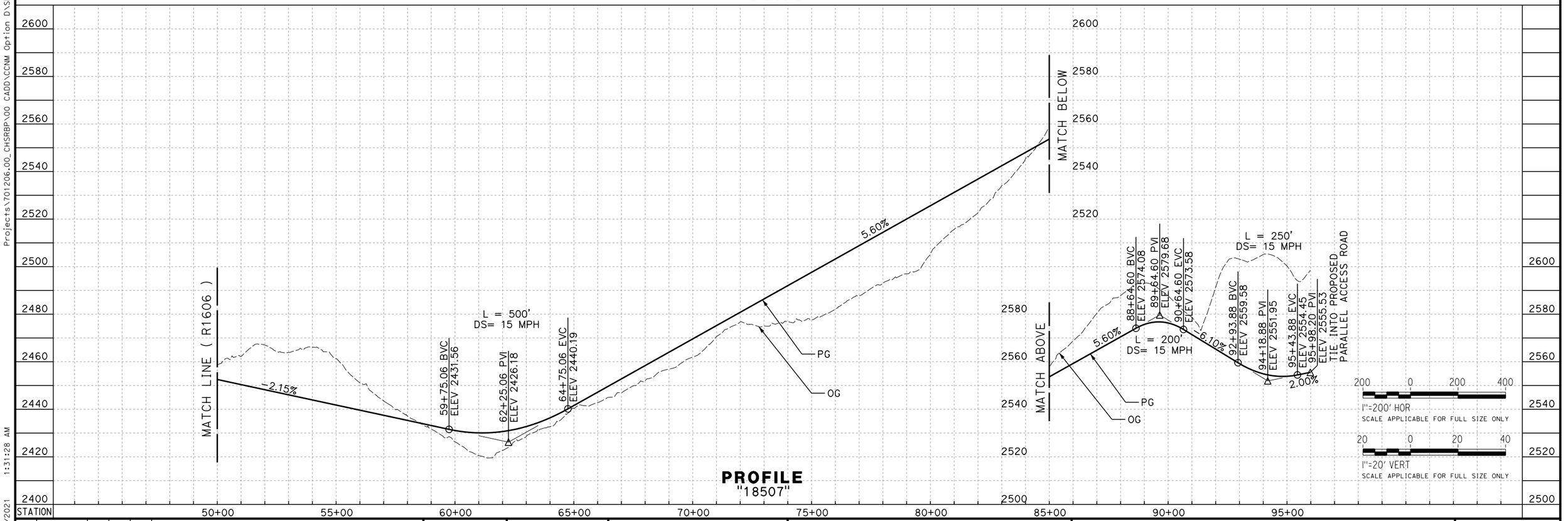
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18507"
PLAN AND PROFILE - SHEET 1 OF 2

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1606
SCALE AS SHOWN
SHEET NO. 48



PLAN



PROFILE
"18507"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

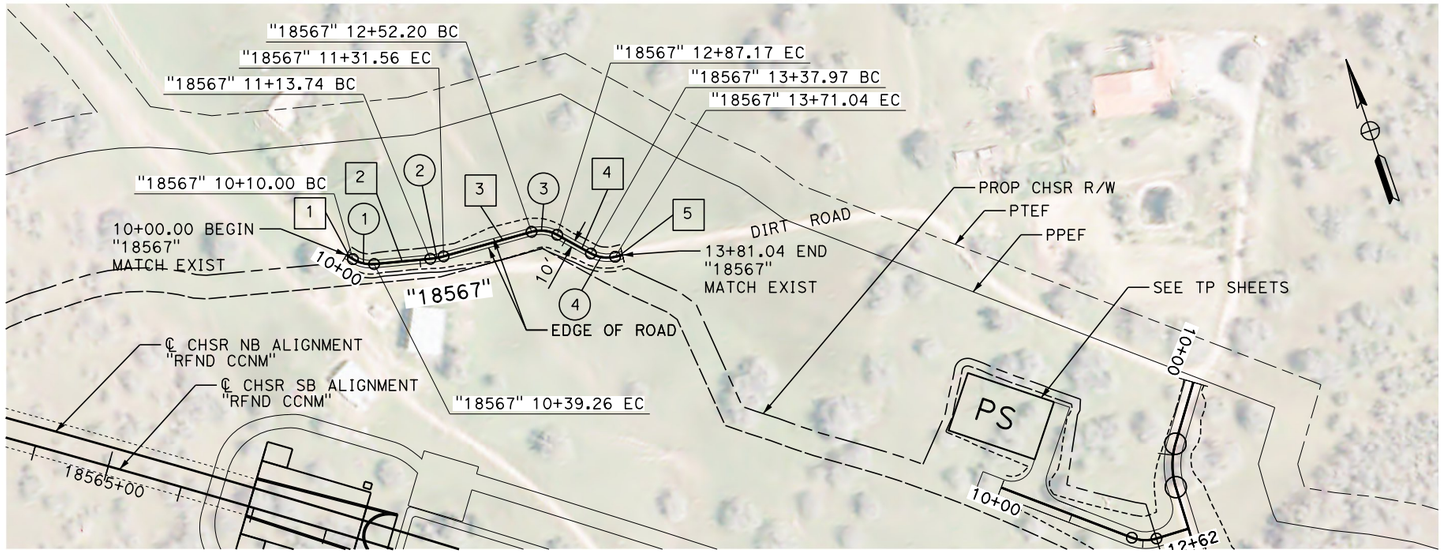
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18507"
PLAN AND PROFILE - SHEET 2 OF 2

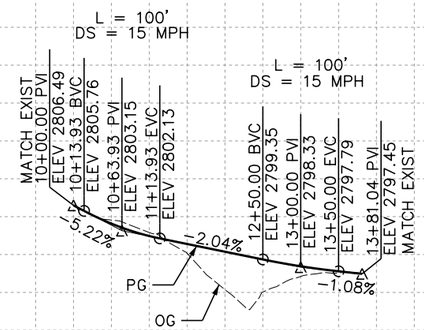
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1607
SCALE AS SHOWN
SHEET NO. 49



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	S 39°22'50" E	10.00'
2	S 76°38'17" E	74.47'
3	S 86°51'10" E	120.64'
4	S 42°19'38" E	50.80'
5	S 84°25'58" E	10.00'

CURVE DATA				
No.	R	Δ	T	L
1	45.00'	37°15'27"	15.17'	29.26'
2	100.00'	10°12'53"	8.94'	17.83'
3	45.00'	44°31'32"	18.42'	34.97'
4	45.00'	42°06'20"	17.32'	33.07'



PROFILE
"18567"

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

2840 2830 2820 2810 2800 2790 2780 2770 2760

STATION 10+00 13+00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
DIRT ROAD "18567"
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1608
SCALE AS SHOWN
SHEET NO. 50

LINE DATA		
No.	BEARING	DISTANCE
1	S 78°53′19" E	329.77′
2	S 63°31′48" E	43.67′
3	S 89°54′06" E	416.97′
4	S 55°36′12" E	148.68′
5	S 87°23′23" E	53.03′
6	S 58°48′48" E	71.67′
7	N 56°08′58" E	90.66′
8	S 80°48′24" E	75.87′
9	N 71°55′24" E	125.53′
10	N 83°29′51" E	200.57′
11	N 69°48′41" E	51.45′
12	S 85°55′26" E	149.72′
13	S 89°47′55" E	121.07′
14	S 74°43′48" E	141.05′
15	S 89°37′18" E	273.79′
16	S 32°10′21" E	575.76′
17	S 52°09′43" E	53.49′
18	N 43°47′16" E	77.84′
19	N 70°44′22" E	103.71′
20	N 84°59′24" E	247.30′
21	N 50°00′46" E	205.17′
22	N 71°14′54" E	457.34′
23	N 74°36′10" E	140.99′
24	N 72°33′03" E	358.72′
25	S 68°06′38" E	54.54′
26	S 88°54′00" E	67.09′
27	S 67°42′33" E	35.86′
28	N 84°19′27" E	40.66′
29	S 87°26′36" E	75.44′
30	N 86°37′21" E	157.73′
31	S 70°14′14" E	118.67′
32	S 63°53′12" E	153.21′
33	N 75°44′03" E	157.59′
34	S 83°40′53" E	467.04′

CURVE DATA				
No.	R	Δ	T	L
1	70.00′	71°58′09"	50.83′	87.93′
2	100.00′	15°21′31"	13.48′	26.81′
3	100.00′	26°22′18"	23.43′	46.03′
4	45.00′	34°17′54"	13.89′	26.94′
5	100.00′	31°47′11"	28.47′	55.48′
6	100.00′	28°34′35"	25.47′	49.88′
7	45.00′	65°02′14"	28.69′	51.08′
8	45.00′	43°02′37"	17.75′	33.81′
9	45.00′	27°16′12"	10.92′	21.42′
10	200.00′	11°34′27"	20.27′	40.40′
11	100.00′	13°41′10"	12.00′	23.89′
12	100.00′	24°15′53"	21.50′	42.35′
13	100.00′	3°52′29"	3.38′	6.76′
14	100.00′	15°04′07"	13.23′	26.30′
15	100.00′	14°53′30"	13.07′	25.99′
16	100.00′	57°26′57"	54.80′	100.27′
17	200.00′	19°59′22"	35.25′	69.78′
18	50.00′	84°03′00"	45.06′	73.35′
19	200.00′	26°57′05"	47.93′	94.08′
20	250.00′	14°15′03"	31.25′	62.18′
21	200.00′	34°58′38"	63.02′	122.09′
22	200.00′	21°14′08"	37.49′	74.13′
23	2000.00′	3°21′16"	58.56′	117.09′
24	1000.00′	2°03′07"	17.91′	35.81′
25	200.00′	39°20′18"	71.49′	137.32′
26	300.00′	20°47′22"	55.03′	108.85′
27	500.00′	21°11′27"	93.53′	184.93′
28	100.00′	27°58′00"	24.90′	48.81′
29	500.00′	8°13′57"	35.98′	71.84′
30	500.00′	5°56′03"	25.92′	51.79′
31	300.00′	23°08′25"	61.42′	121.16′
32	1000.00′	6°21′02"	55.48′	110.84′
33	400.00′	40°22′45"	147.09′	281.90′
34	400.00′	20°35′04"	72.64′	143.71′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

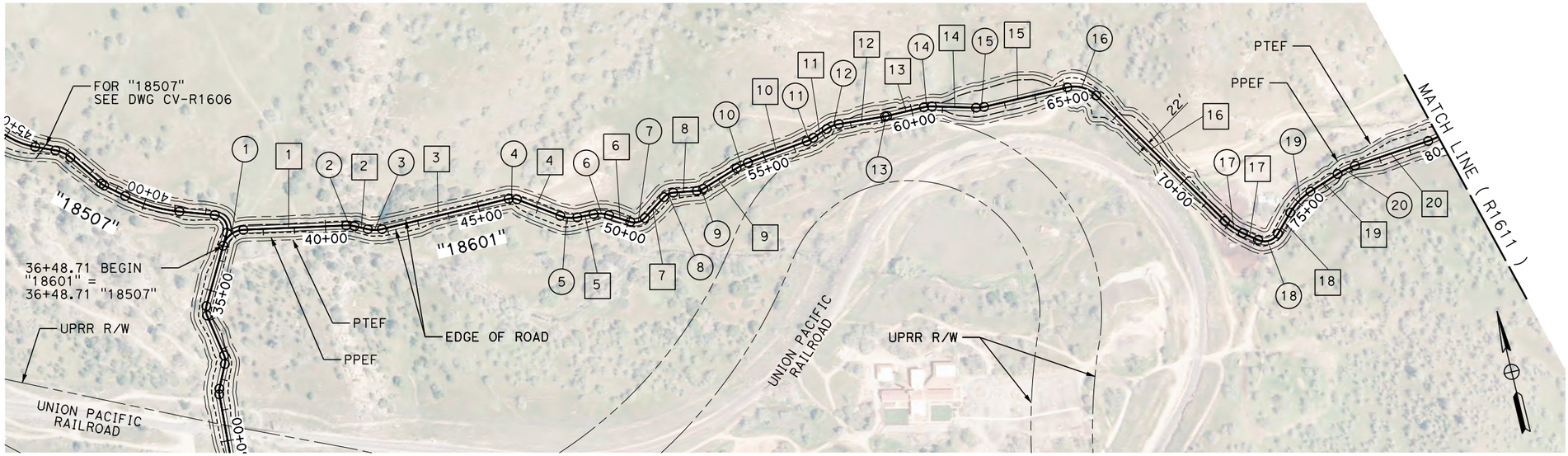
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

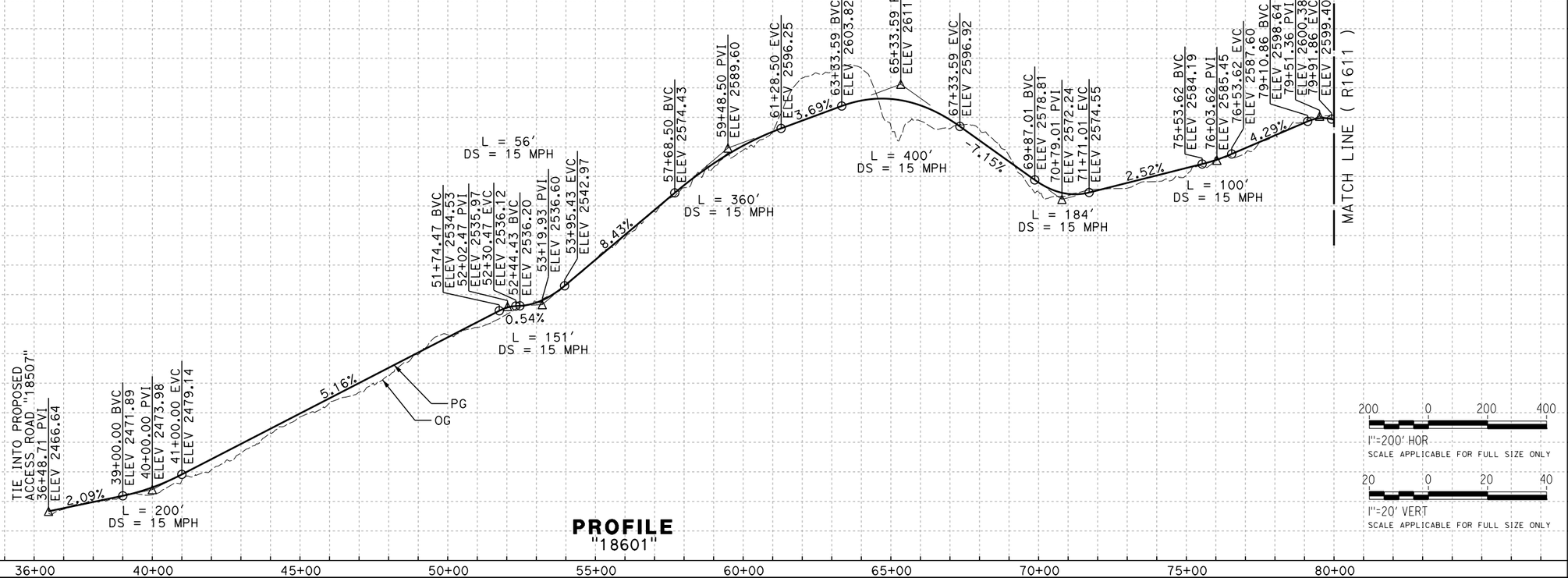
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18601"
HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1609
SCALE NO SCALE
SHEET NO. 51



PLAN



PROFILE
"18601"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

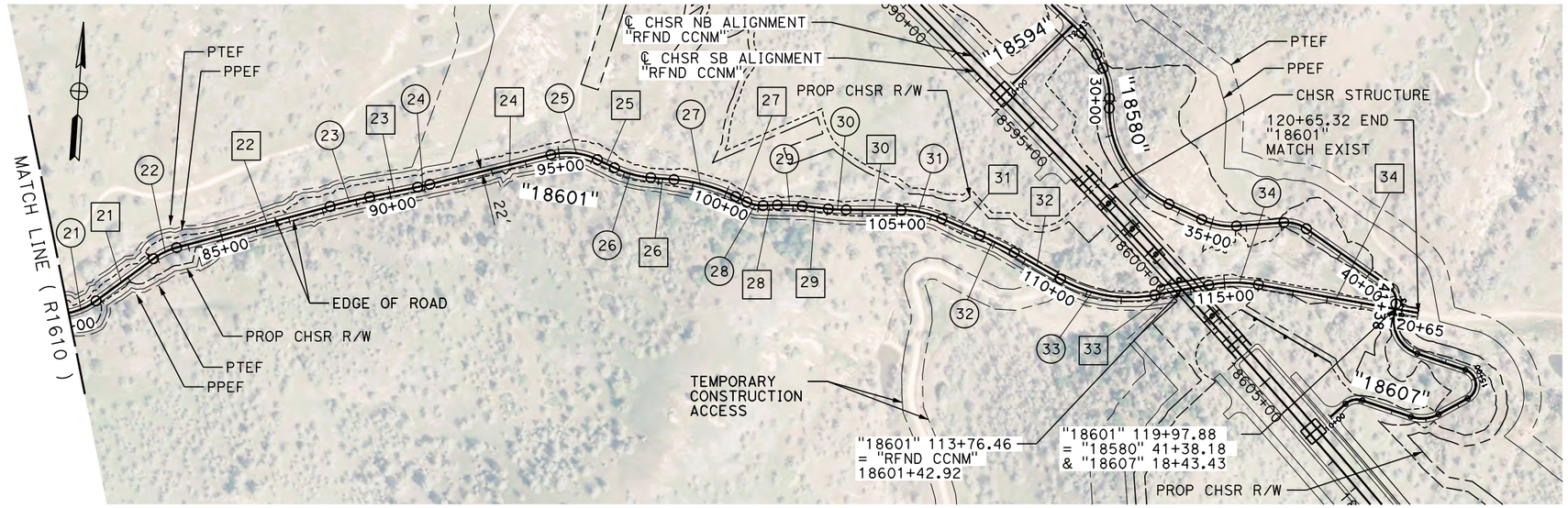
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

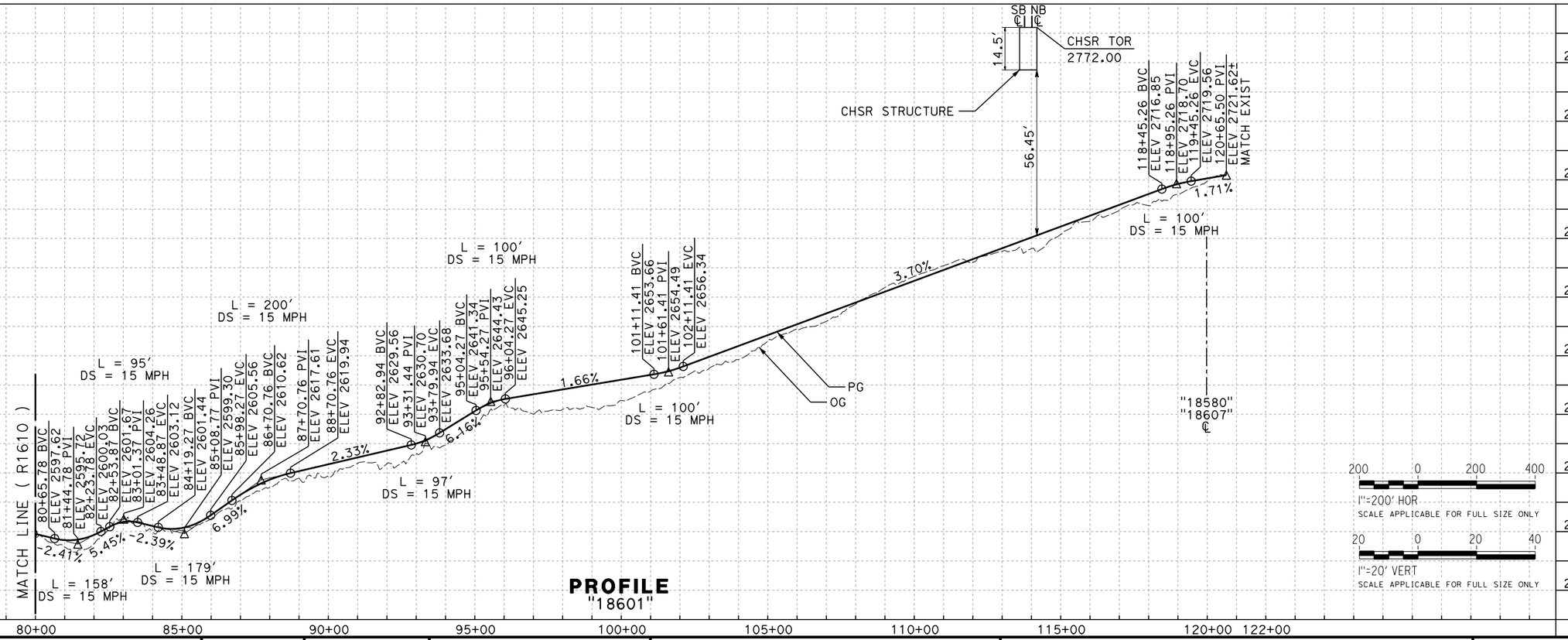
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18601"
PLAN AND PROFILE - SHEET 1 OF 2

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1610
SCALE AS SHOWN
SHEET NO. 52



PLAN



PROFILE
"18601"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

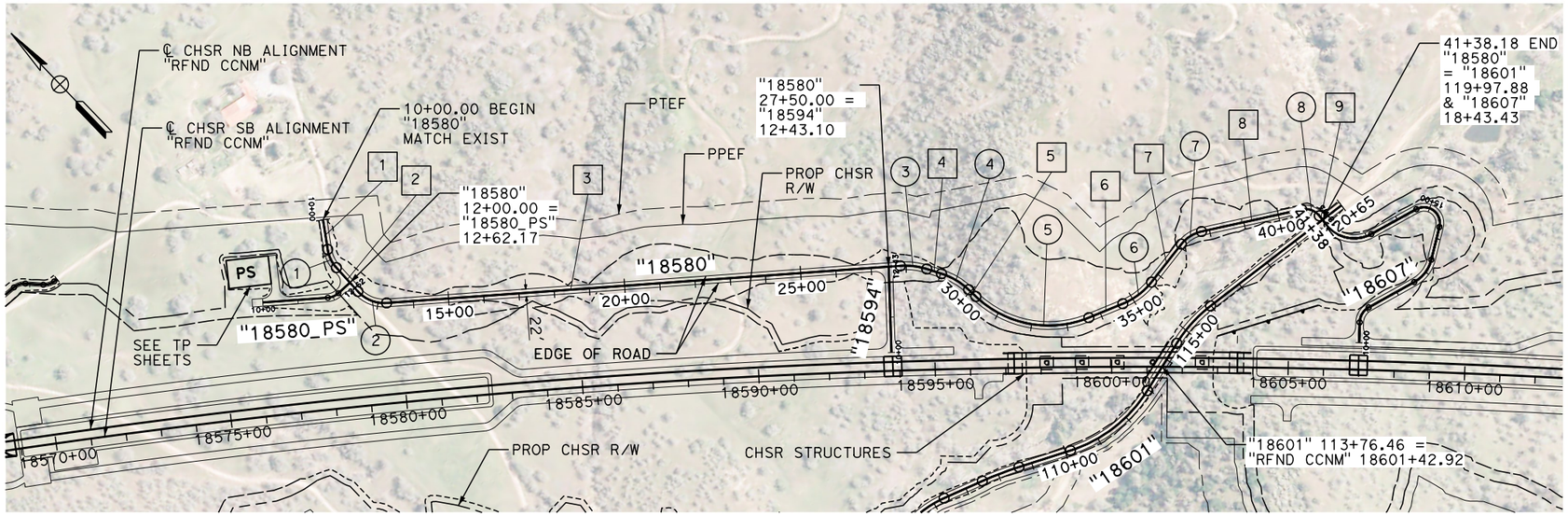
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18601"
PLAN AND PROFILE - SHEET 2 OF 2

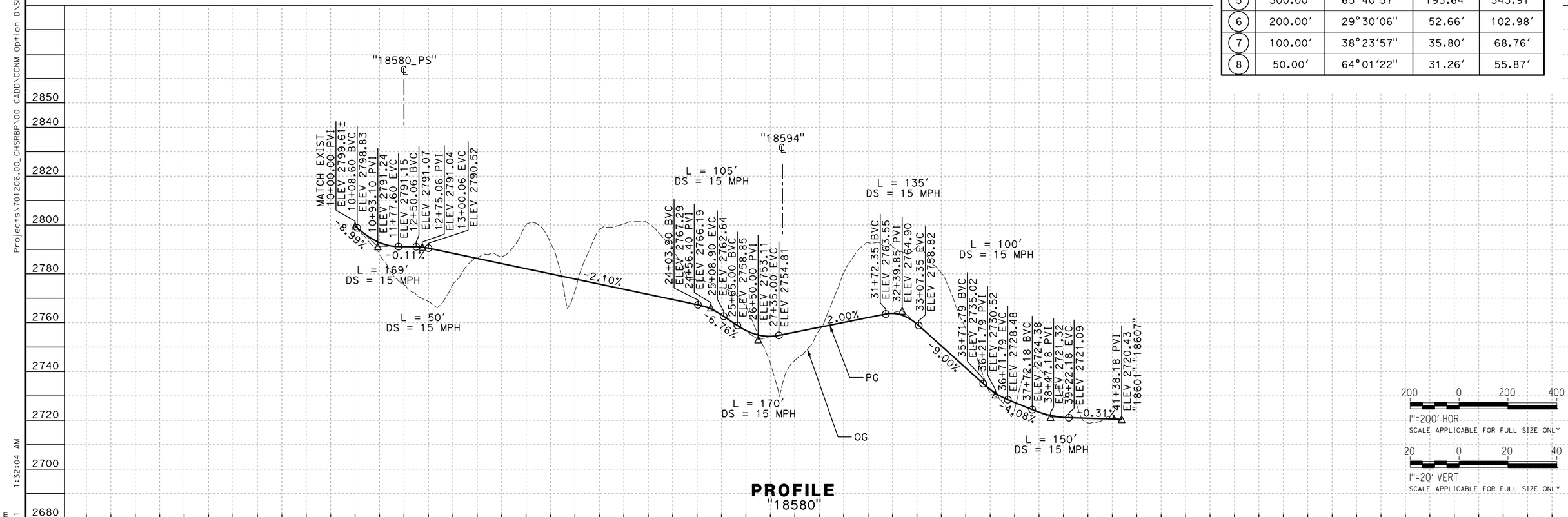
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1611
SCALE AS SHOWN
SHEET NO. 53



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	S 34°57′53" W	84.50′
2	S 1°39′27" W	90.79′
3	S 50°17′13" E	1459.05′
4	S 28°38′06" E	43.64′
5	S 2°44′40" E	28.29′
6	S 68°25′37" E	104.00′
7	N 82°04′17" E	136.57′
8	S 58°31′46" E	290.42′
9	S 5°29′37" W	14.65′

CURVE DATA				
No.	R	Δ	T	L
1	100.00′	33°18′26"	29.91′	58.13′
2	100.00′	51°56′40"	48.71′	90.66′
3	200.00′	21°43′07"	38.37′	75.81′
4	200.00′	25°49′26"	45.85′	90.14′
5	300.00′	65°40′57"	193.64′	343.91′
6	200.00′	29°30′06"	52.66′	102.98′
7	100.00′	38°23′57"	35.80′	68.76′
8	50.00′	64°01′22"	31.26′	55.87′



PROFILE
"18580"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

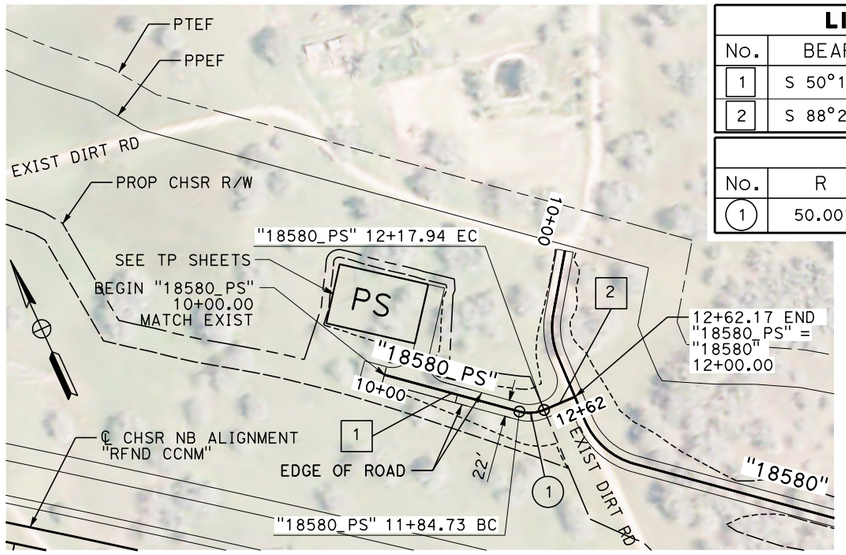
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

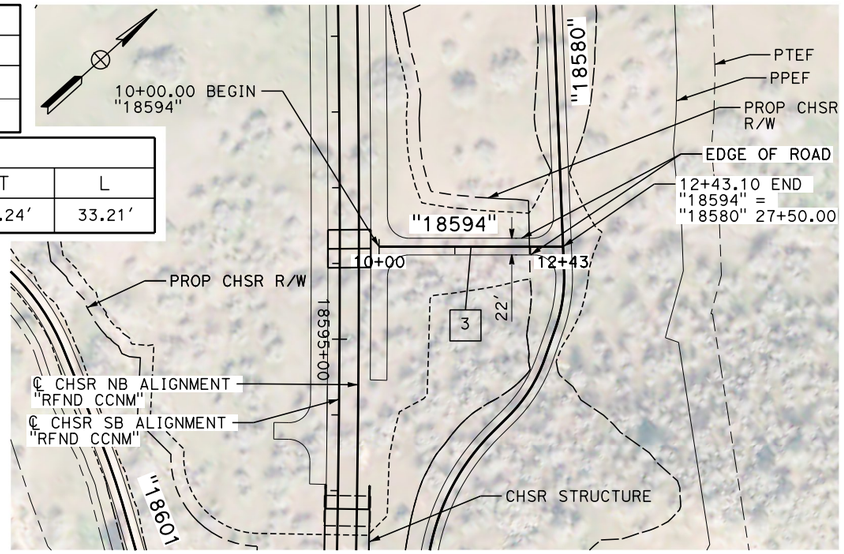
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18580"
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1612
SCALE AS SHOWN
SHEET NO. 54



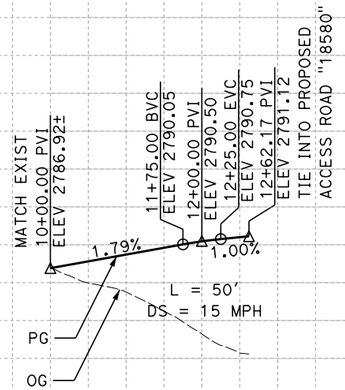
LINE DATA		
No.	BEARING	DISTANCE
1	S 50°17'13" E	184.73'
2	S 88°20'33" E	44.23'

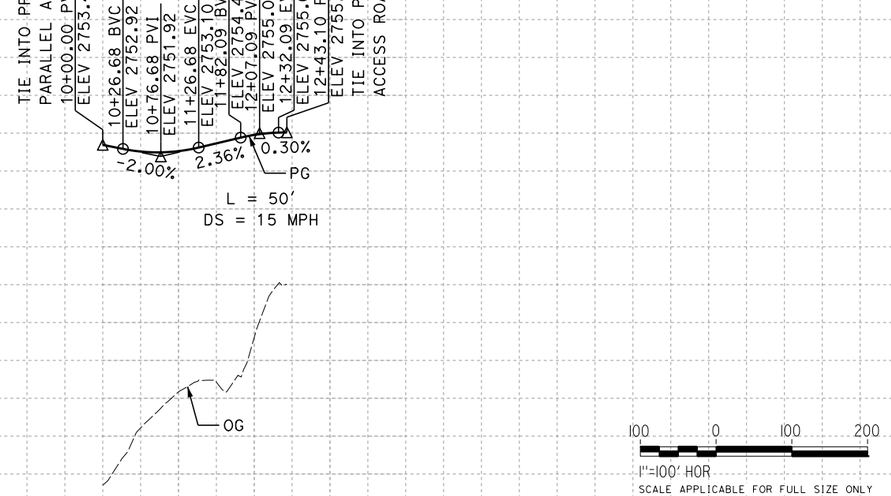
CURVE DATA				
No.	R	Δ	T	L
1	50.00'	38°03'20"	17.24'	33.21'

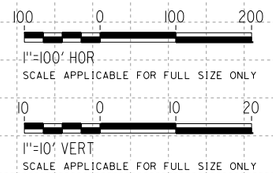


LINE DATA		
No.	BEARING	DISTANCE
3	N 41°58'36" E	242.88'

PLAN







PROFILE
"18580_PS"

PROFILE
"18594"

STATION 10+00 14+00 10+00 14+00

2820 2810 2800 2790 2780 2770 2760 2750 2740
2790 2780 2770 2760 2750 2740 2730 2720 2710 2700 2690

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

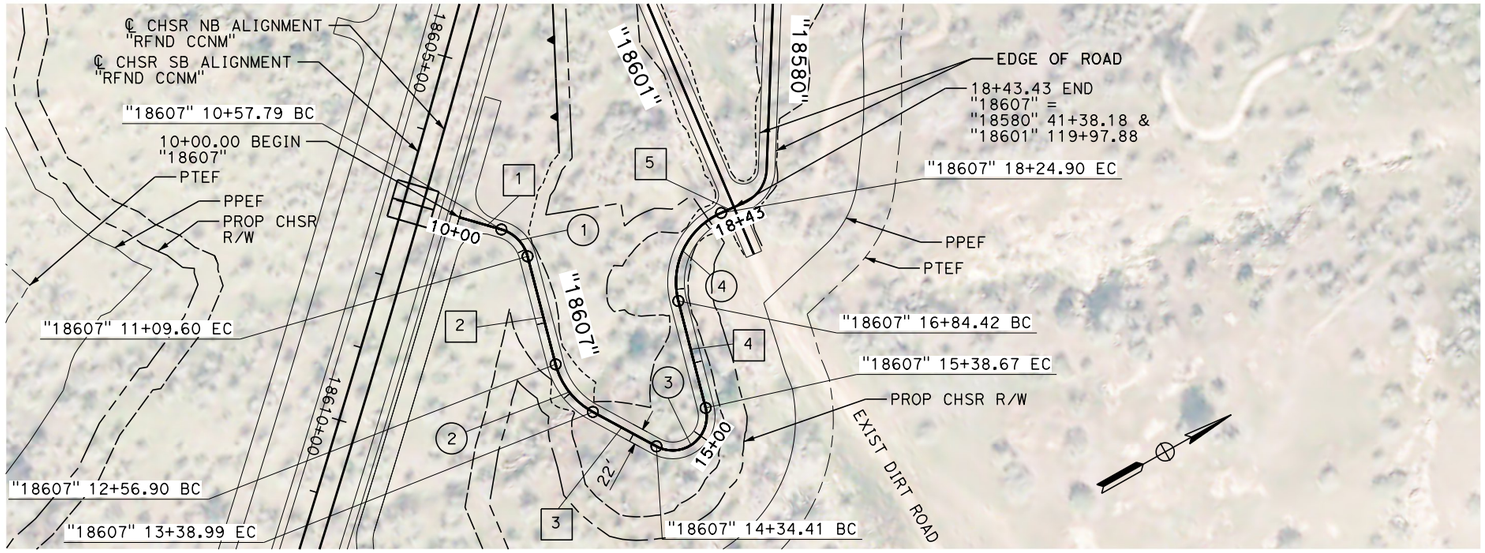
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18580_PS" & "18594"
PLAN AND PROFILE

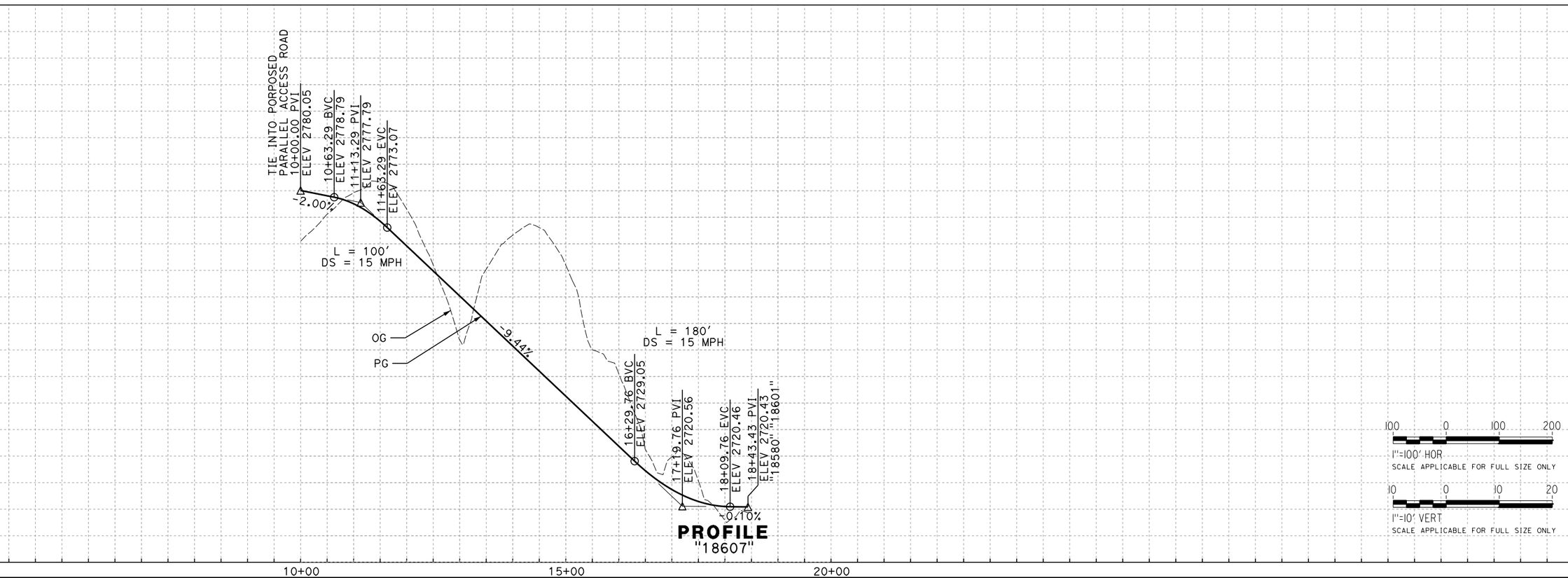
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1613
SCALE AS SHOWN
SHEET NO. 55



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	N 45°25′02" E	57.79′
2	S 75°12′52" E	147.30′
3	N 57°44′54" E	95.42′
4	N 74°59′50" W	145.75′
5	N 5°29′37" E	18.53′

CURVE DATA				
No.	R	Δ	T	L
1	50.00′	59°22′06"	28.50′	51.81′
2	100.00′	47°02′14"	43.52′	82.10′
3	45.00′	132°44′44"	102.87′	104.26′
4	100.00′	80°29′27"	84.64′	140.48′



PROFILE
"18607"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

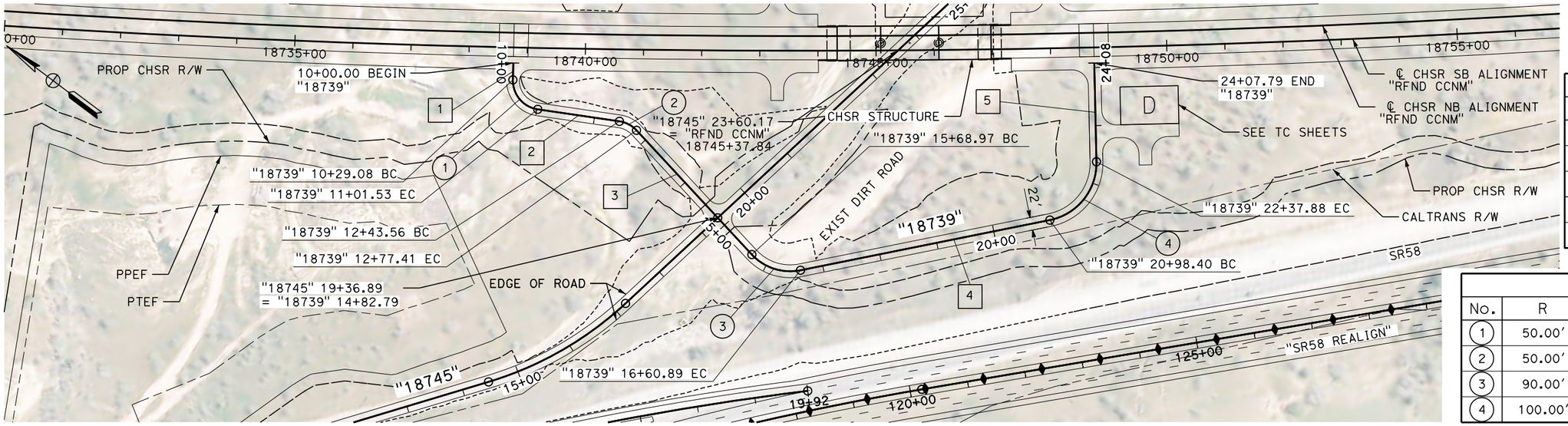
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18607"
PLAN AND PROFILE

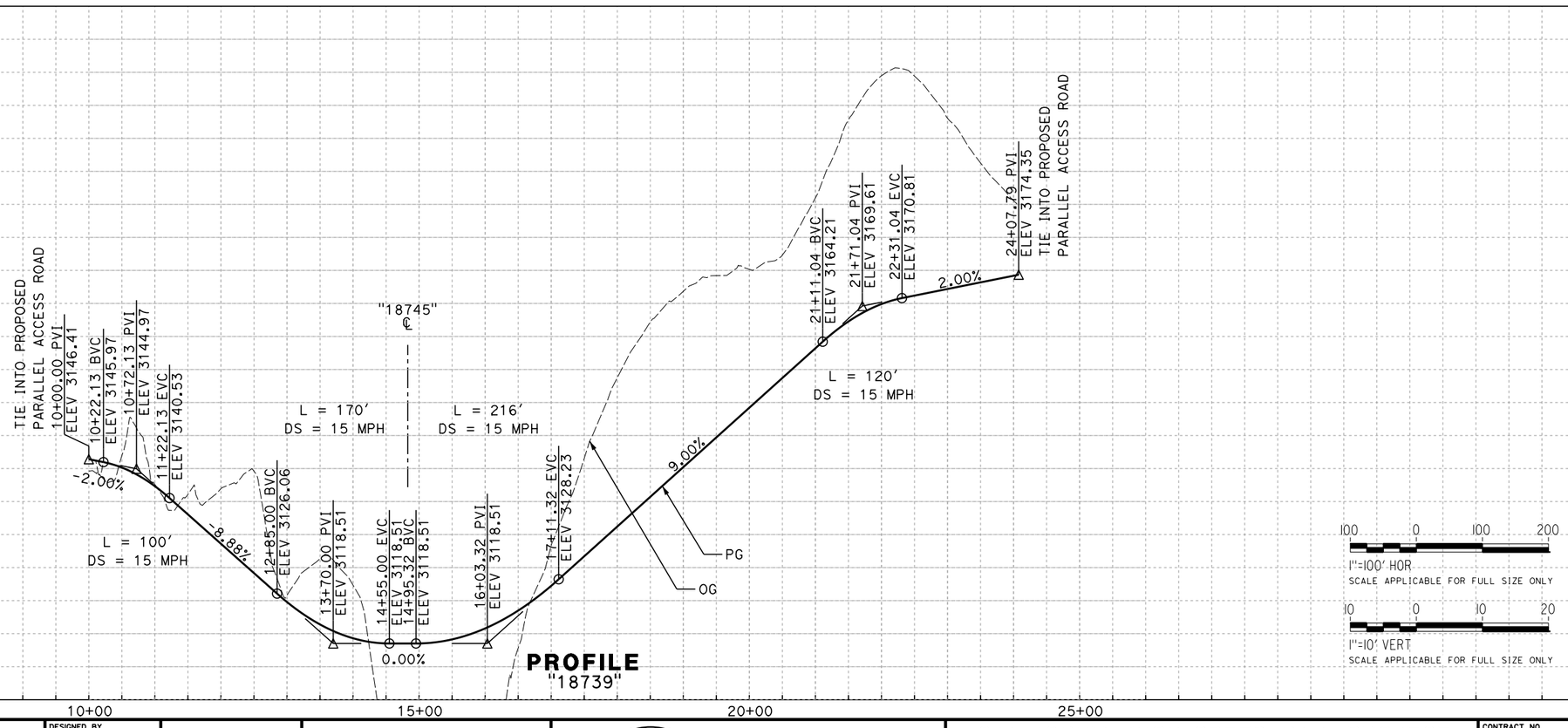
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1614
SCALE AS SHOWN
SHEET NO. 56



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	S 54°28′33" E	29.08′
2	S 28°32′10" E	142.03′
3	S 10°15′20" W	291.56′
4	S 48°15′43" E	437.51′
5	N 51°49′24" E	169.91′

CURVE DATA				
No.	R	Δ	T	L
1	50.00′	83°00′42"	44.25′	72.44′
2	50.00′	38°47′30"	17.60′	33.85′
3	90.00′	58°31′03"	50.42′	91.92′
4	100.00′	79°54′53"	83.78′	139.48′



PROFILE
"18739"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

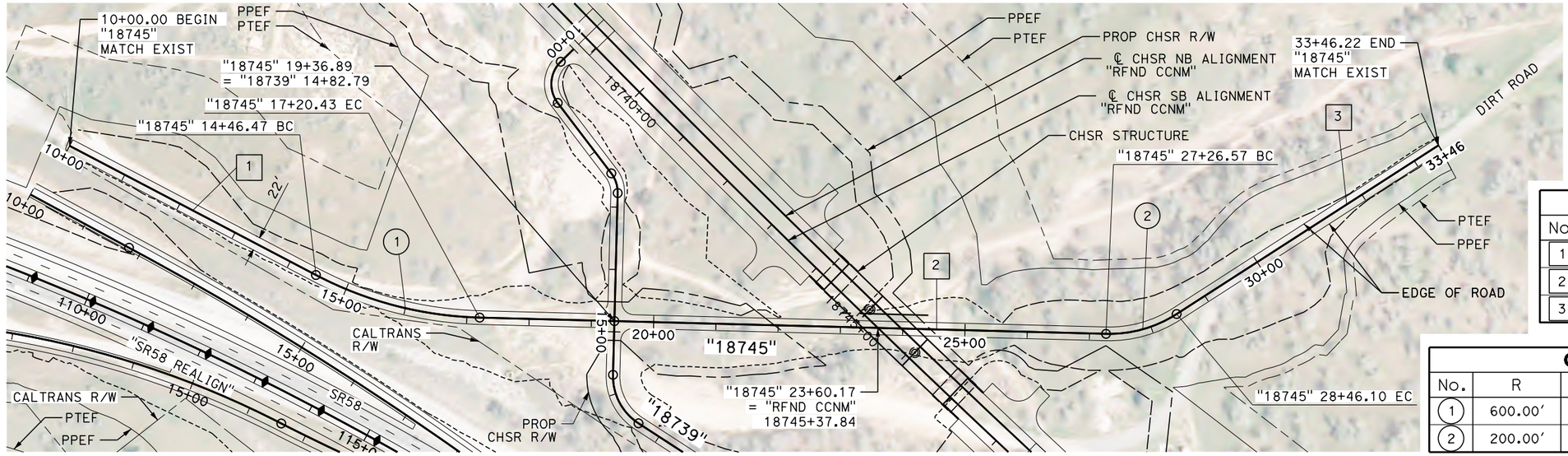
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18739"
PLAN AND PROFILE

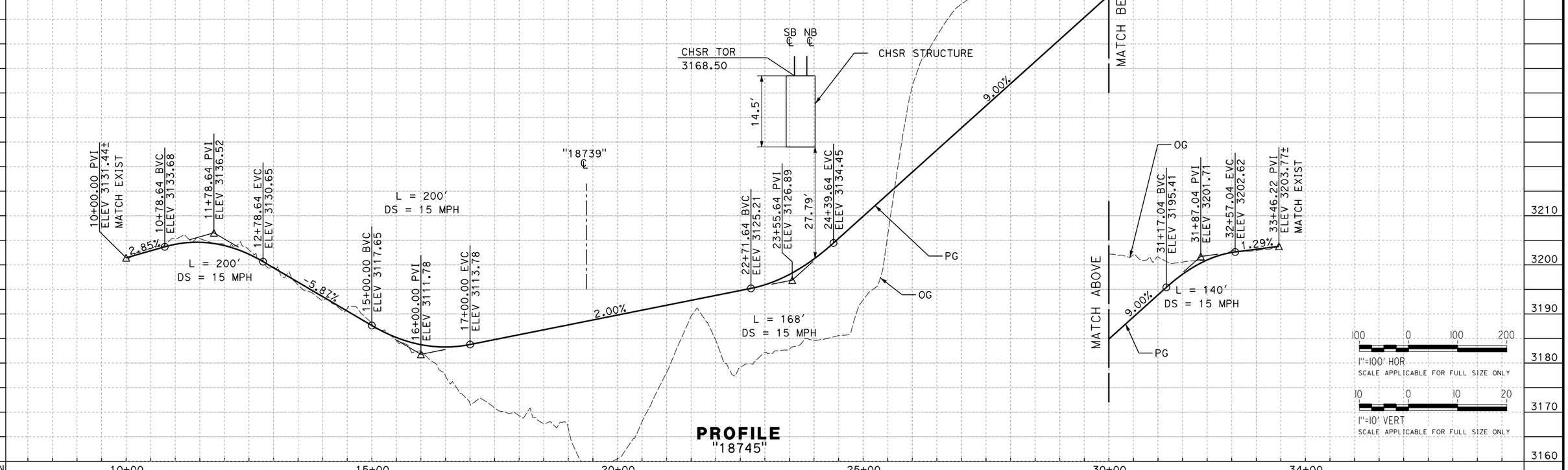
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1615
SCALE AS SHOWN
SHEET NO. 57



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	S 53°34'59" E	446.47'
2	S 79°44'40" E	1006.14'
3	N 66°00'44" E	500.12'

CURVE DATA				
No.	R	Δ	T	L
1	600.00'	26°09'41"	139.41'	273.96'
2	200.00'	34°14'36"	61.61'	119.53'



PROFILE
"18745"

1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

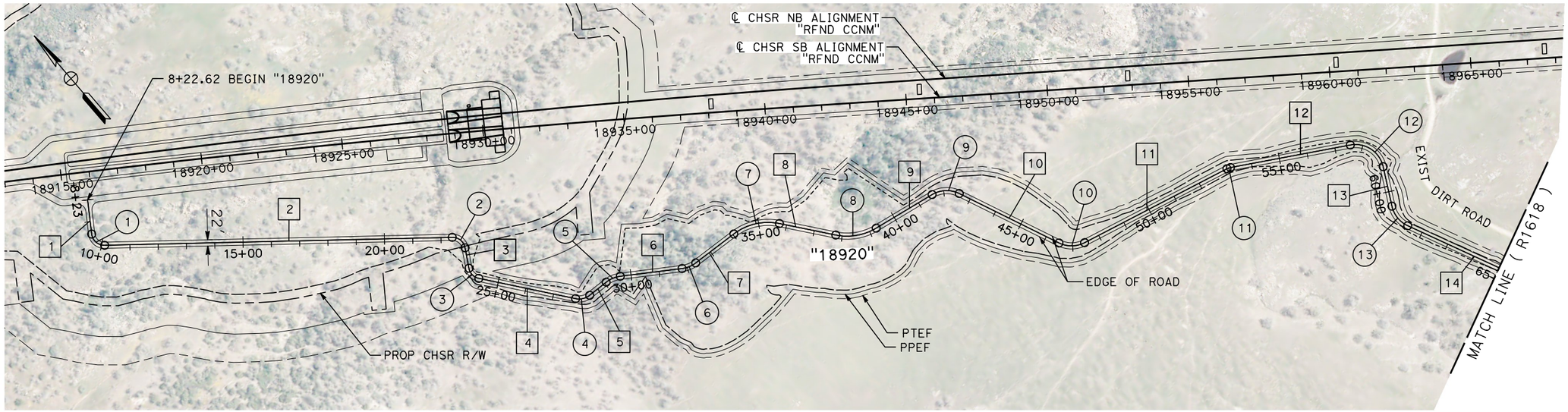
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

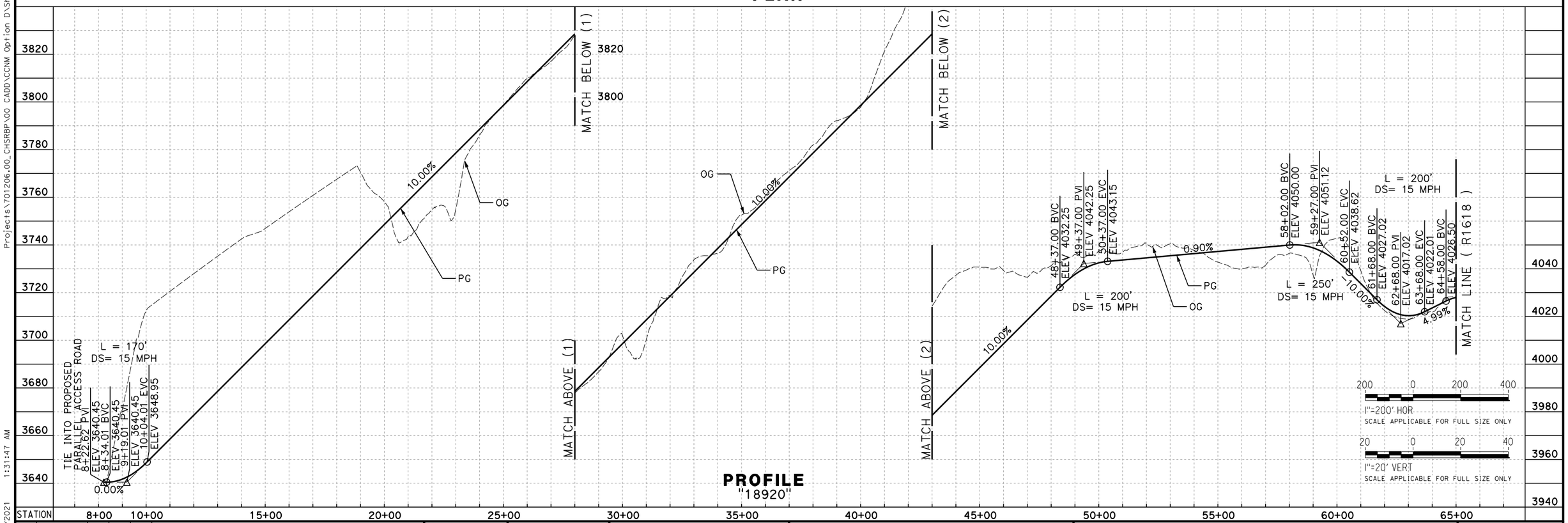
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18745"
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1616
SCALE AS SHOWN
SHEET NO. 58



PLAN



PROFILE
"18920"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

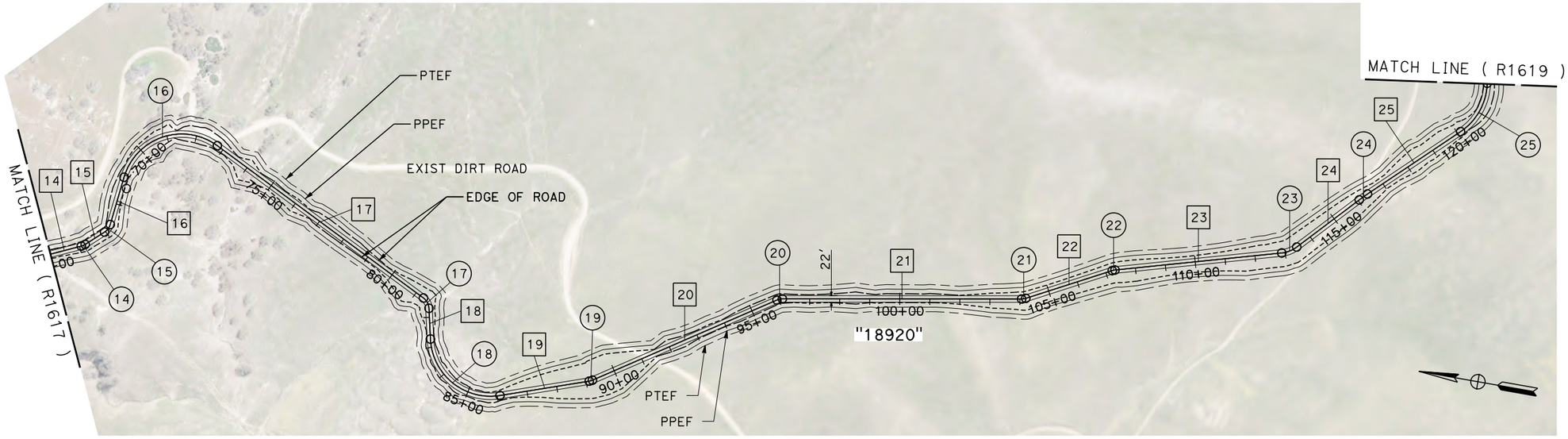
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

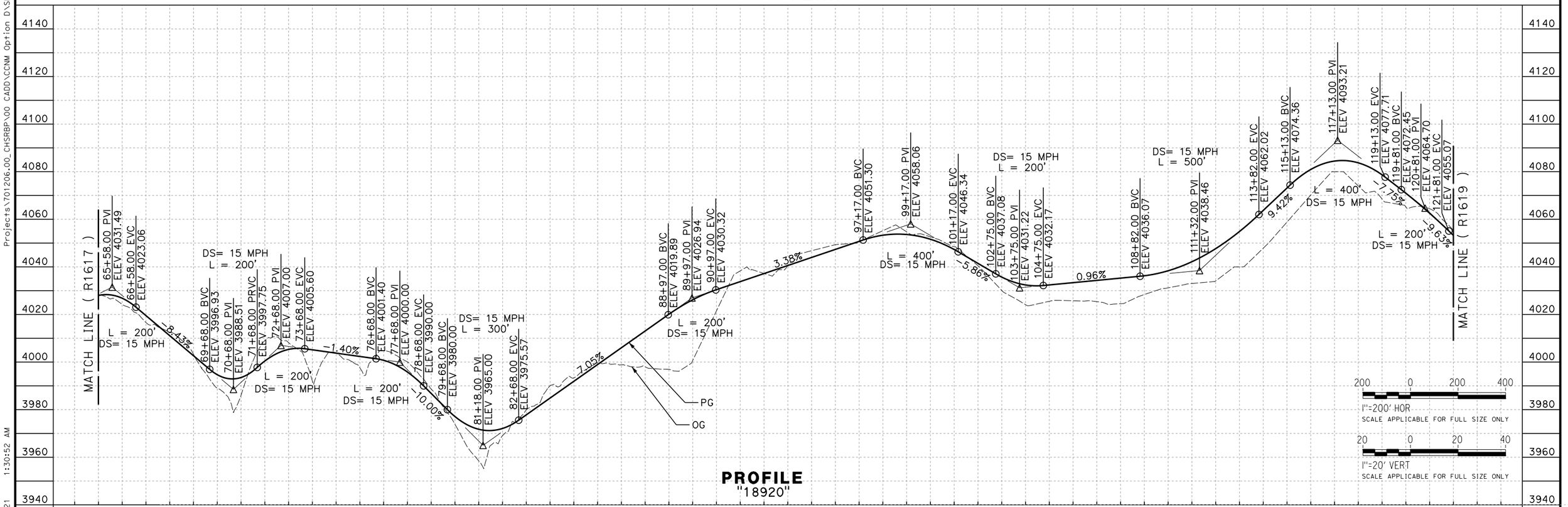
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18920"
PLAN AND PROFILE - SHEET 1 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1617
SCALE AS SHOWN
SHEET NO. 59



PLAN



PROFILE
"18920"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

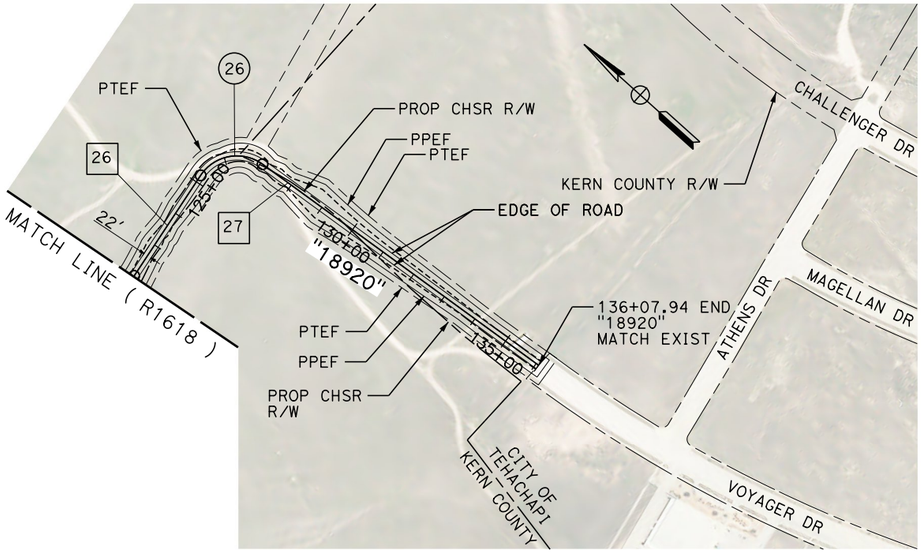
NOT FOR CONSTRUCTION

T.Y.LIN INTERNATIONAL

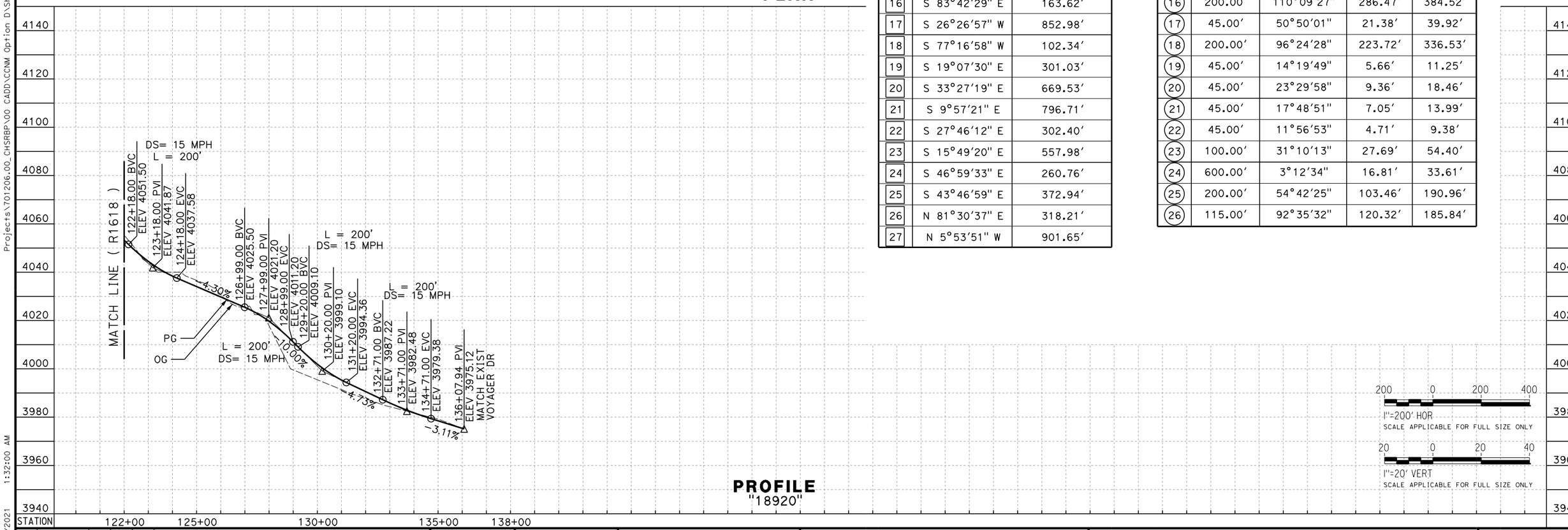
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18920"
PLAN AND PROFILE - SHEET 2 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1618
SCALE AS SHOWN
SHEET NO. 60



PLAN



PROFILE
"18920"

LINE DATA

No.	BEARING	DISTANCE
1	S 33°51'22" W	121.63'
2	S 50°36'50" E	1229.14'
3	S 30°07'26" W	73.73'
4	S 37°27'46" E	349.75'
5	S 87°45'35" E	74.64'
6	S 56°28'40" E	220.34'
7	S 86°35'11" E	169.39'
8	S 37°45'50" E	203.38'
9	S 80°15'54" E	230.40'
10	S 22°57'05" E	393.63'
11	S 76°45'59" E	566.94'
12	S 59°57'10" E	431.17'
13	S 28°07'28" W	143.28'
14	S 24°35'56" E	461.65'
15	S 42°28'09" E	76.49'
16	S 83°42'29" E	163.62'
17	S 26°26'57" W	852.98'
18	S 77°16'58" W	102.34'
19	S 19°07'30" E	301.03'
20	S 33°27'19" E	669.53'
21	S 9°57'21" E	796.71'
22	S 27°46'12" E	302.40'
23	S 15°49'20" E	557.98'
24	S 46°59'33" E	260.76'
25	S 43°46'59" E	372.94'
26	N 81°30'37" E	318.21'
27	N 5°53'51" W	901.65'

CURVE DATA

No.	R	Δ	T	L
1	45.00'	84°28'11"	40.85'	66.34'
2	45.00'	80°44'16"	38.26'	63.41'
3	45.00'	67°35'12"	30.12'	53.08'
4	60.00'	50°17'49"	28.17'	52.67'
5	100.00'	31°16'55"	28.00'	54.60'
6	100.00'	30°06'31"	26.90'	52.55'
7	200.00'	48°49'21"	90.77'	170.42'
8	200.00'	42°30'04"	77.78'	148.36'
9	100.00'	57°18'50"	54.65'	100.03'
10	100.00'	53°48'54"	50.75'	93.92'
11	45.00'	16°48'50"	6.65'	13.21'
12	100.00'	88°04'38"	96.70'	153.72'
13	100.00'	52°43'24"	49.56'	92.02'
14	45.00'	17°52'13"	7.06'	14.04'
15	45.00'	41°14'20"	16.93'	32.39'
16	200.00'	110°09'27"	286.47'	384.52'
17	45.00'	50°50'01"	21.38'	39.92'
18	200.00'	96°24'28"	223.72'	336.53'
19	45.00'	14°19'49"	5.66'	11.25'
20	45.00'	23°29'58"	9.36'	18.46'
21	45.00'	17°48'51"	7.05'	13.99'
22	45.00'	11°56'53"	4.71'	9.38'
23	100.00'	31°10'13"	27.69'	54.40'
24	600.00'	3°12'34"	16.81'	33.61'
25	200.00'	54°42'25"	103.46'	190.96'
26	115.00'	92°35'32"	120.32'	185.84'

200 0 200 400
1"=200' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

20 0 20 40
1"=20' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

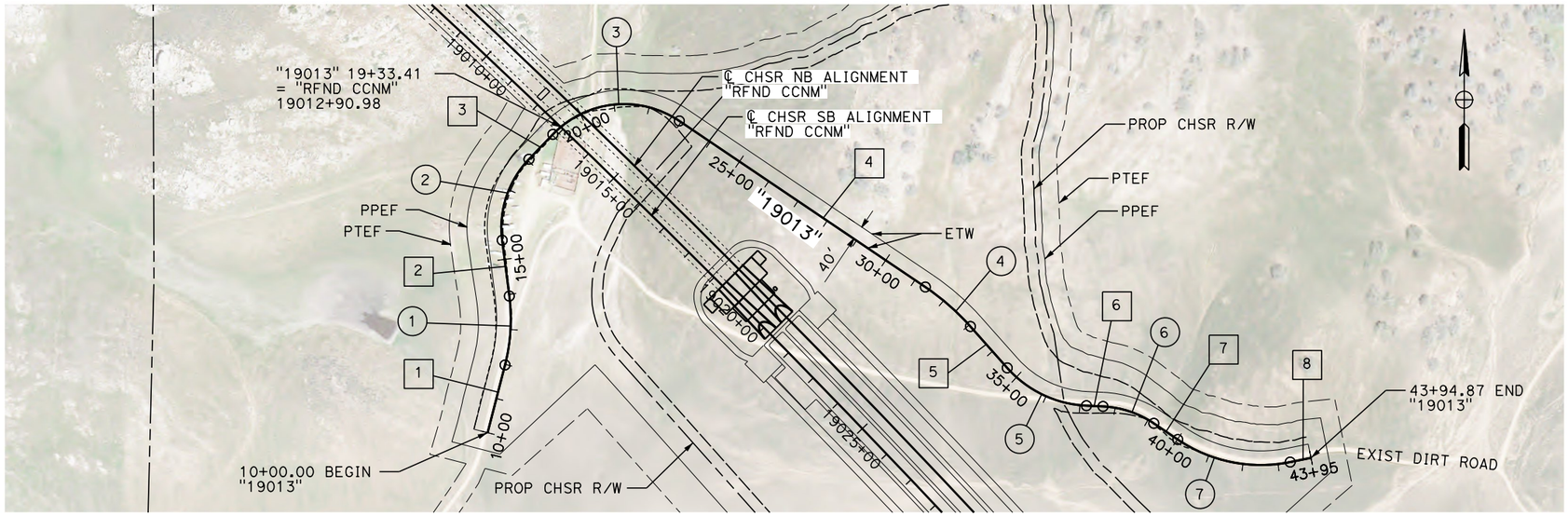
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18920"
PLAN AND PROFILE - SHEET 3 OF 3

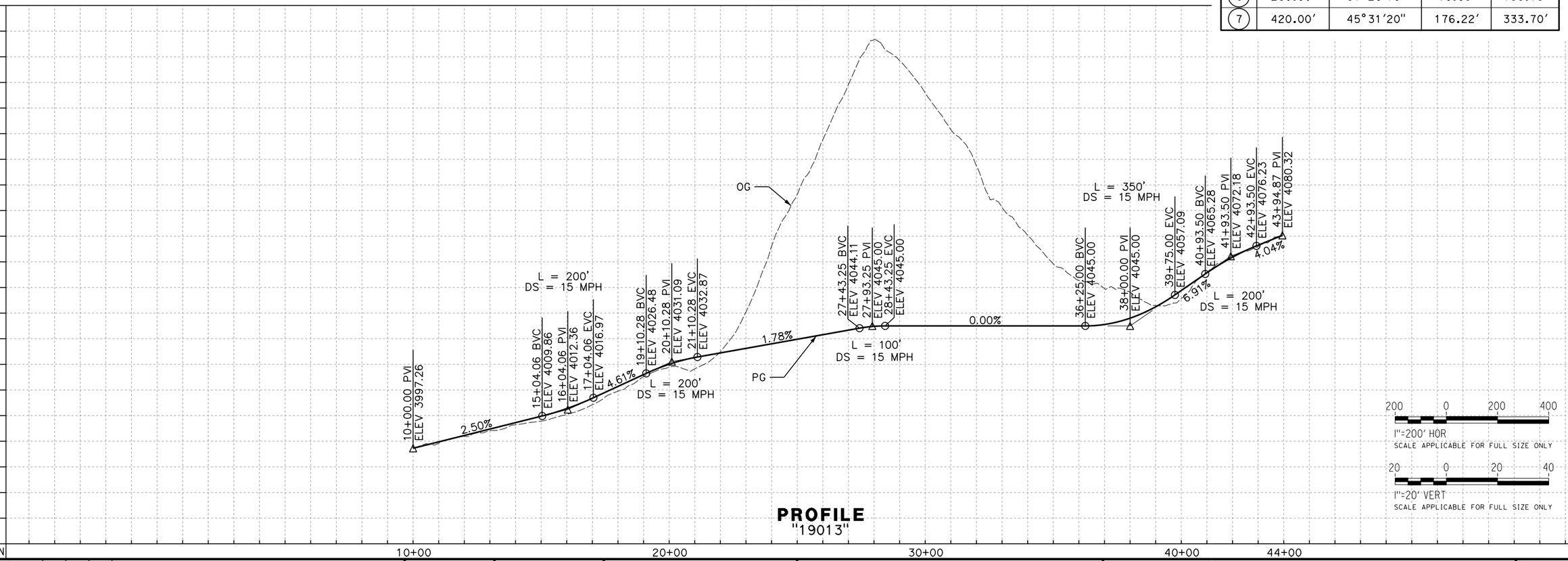
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1619
SCALE AS SHOWN
SHEET NO. 61



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	N 14°22'57" E	198.27'
2	N 7°18'48" W	159.60'
3	N 43°49'39" E	97.76'
4	N 55°59'57" W	841.19'
5	N 41°38'32" W	156.98'
6	N 87°23'13" W	46.99'
7	N 55°55'03" W	136.57'
8	N 78°33'37" E	60.23'

CURVE DATA				
No.	R	Δ	T	L
1	520.00'	21°41'25"	99.65'	196.91'
2	280.00'	51°08'28"	133.98'	249.92'
3	280.00'	80°10'23"	235.67'	391.80'
4	680.00'	14°21'25"	85.64'	170.39'
5	320.00'	45°44'40"	134.99'	255.49'
6	280.00'	31°28'10"	78.89'	153.79'
7	420.00'	45°31'20"	176.22'	333.70'



PROFILE
"19013"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

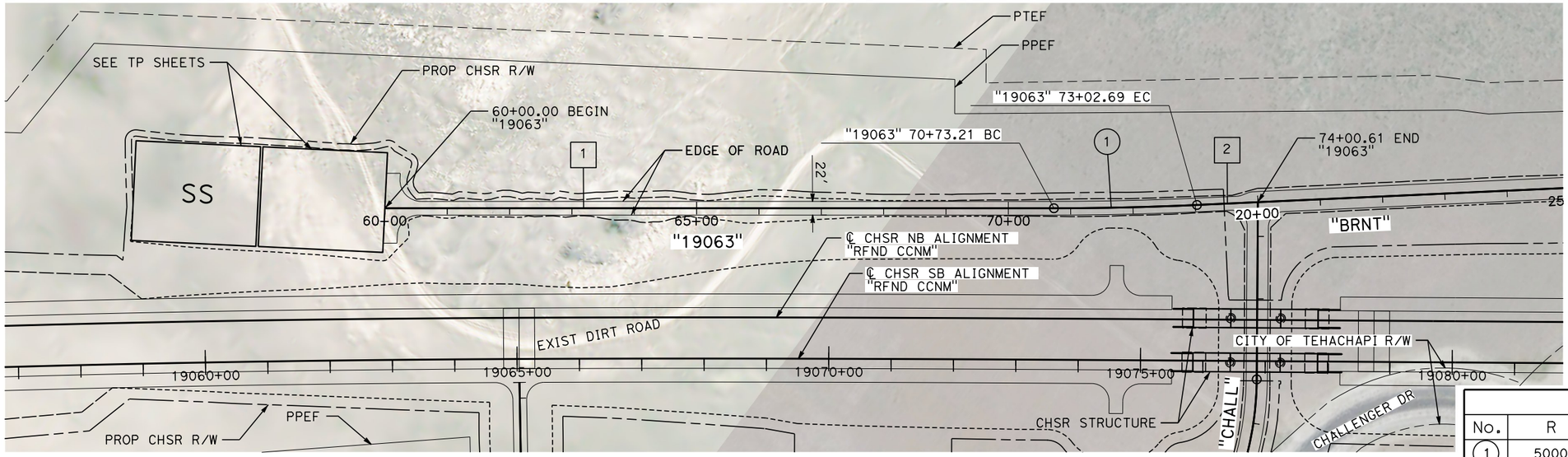
T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "19013"
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1620A
SCALE AS SHOWN
SHEET NO. 62

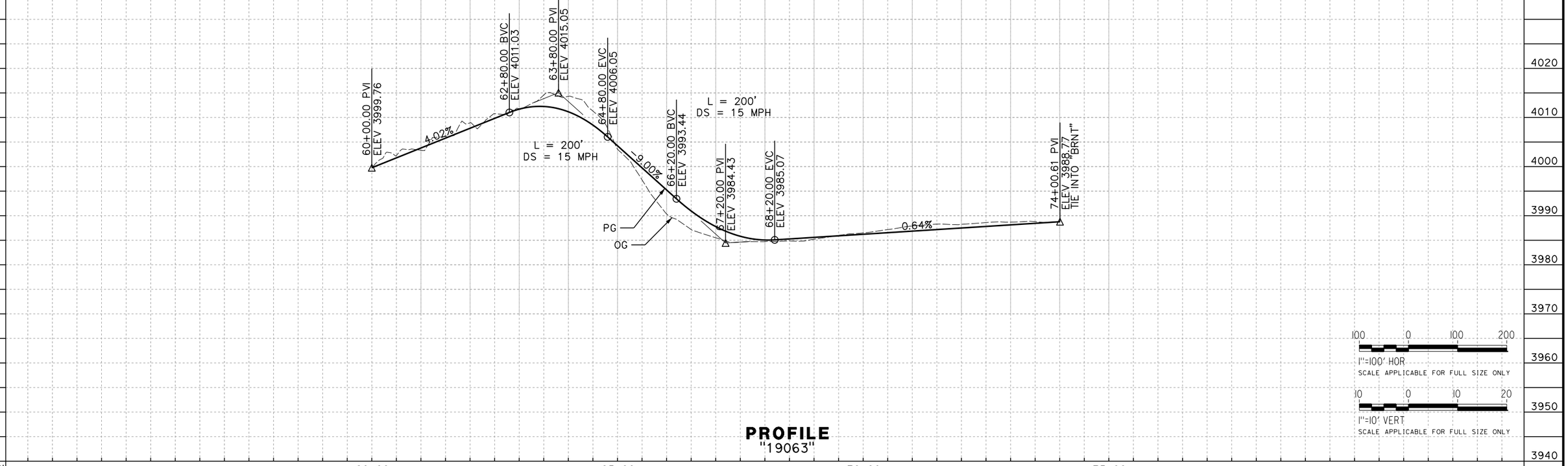
Projects\701206.00_CHSRBPV00 CADD\CCNM Option D\Sheets\CV\BP-CV-R1620A
1:33:24 AM
1/13/2021
elaina.baldwin@tylin.com



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	S 36°25'03" E	1073.21'
2	S 0°38'43" W	97.92'

CURVE DATA				
No.	R	Δ	T	L
1	5000'	2°37'47"	114.76'	229.48'



PROFILE
"19063"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

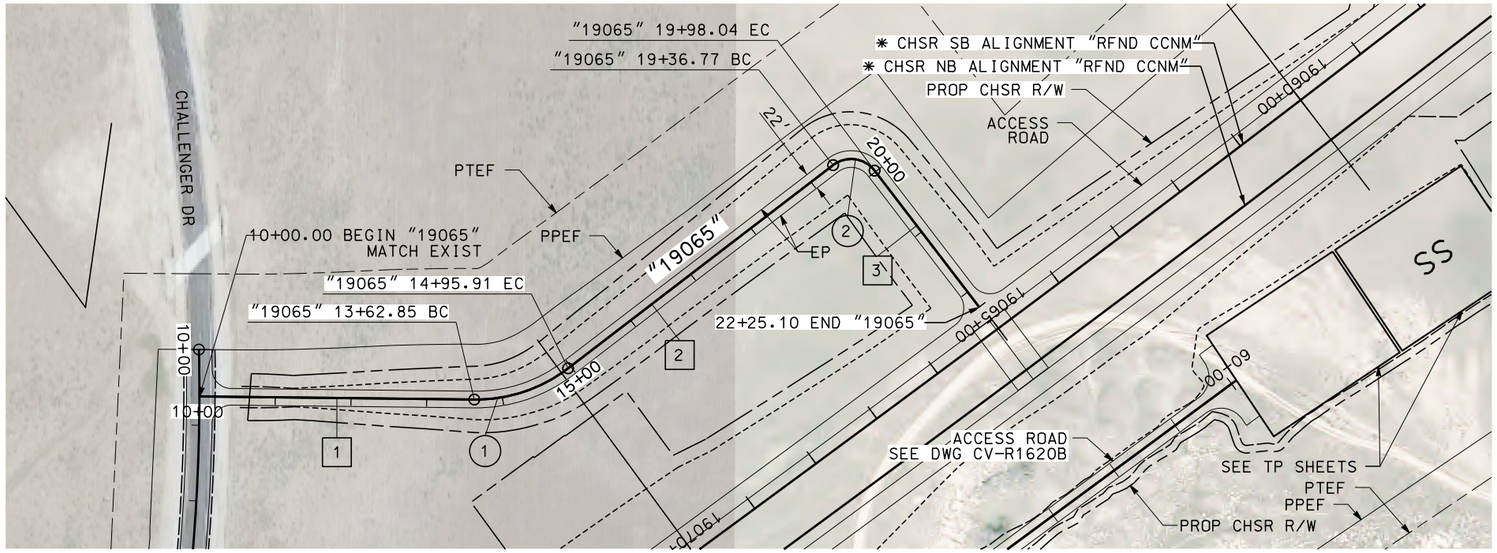
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "19063"
PLAN AND PROFILE

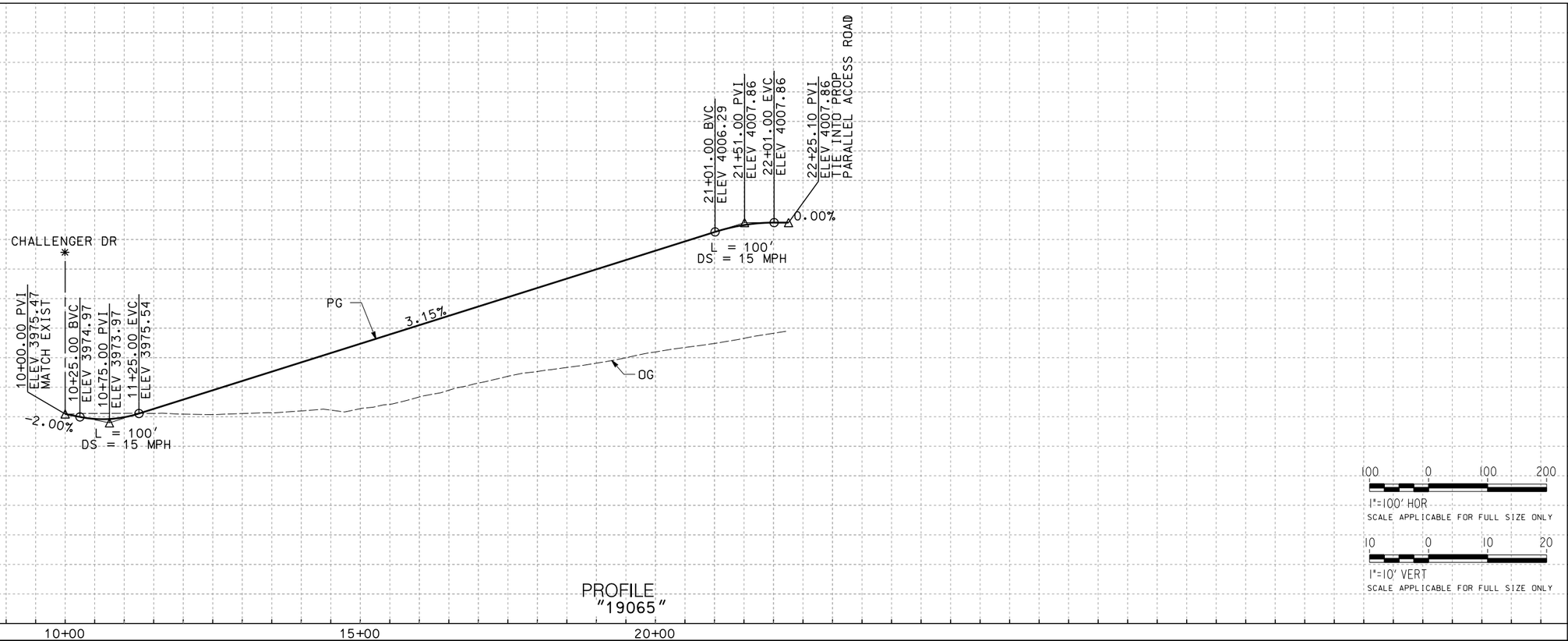
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1620B
SCALE AS SHOWN
SHEET NO. 63



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	N 3°43'41" E	728.16'
2	N 22°14'28" E	243.46'
3	N 53°18'44" E	58.27'

CURVE DATA				
No.	R	*	T	L
(1)	70.00'	18 33/64° 30'47"	11.41'	22.62'
(2)	45.00'	31 33/64° 04'16"	12.51'	24.40'



PROFILE
"19065"

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

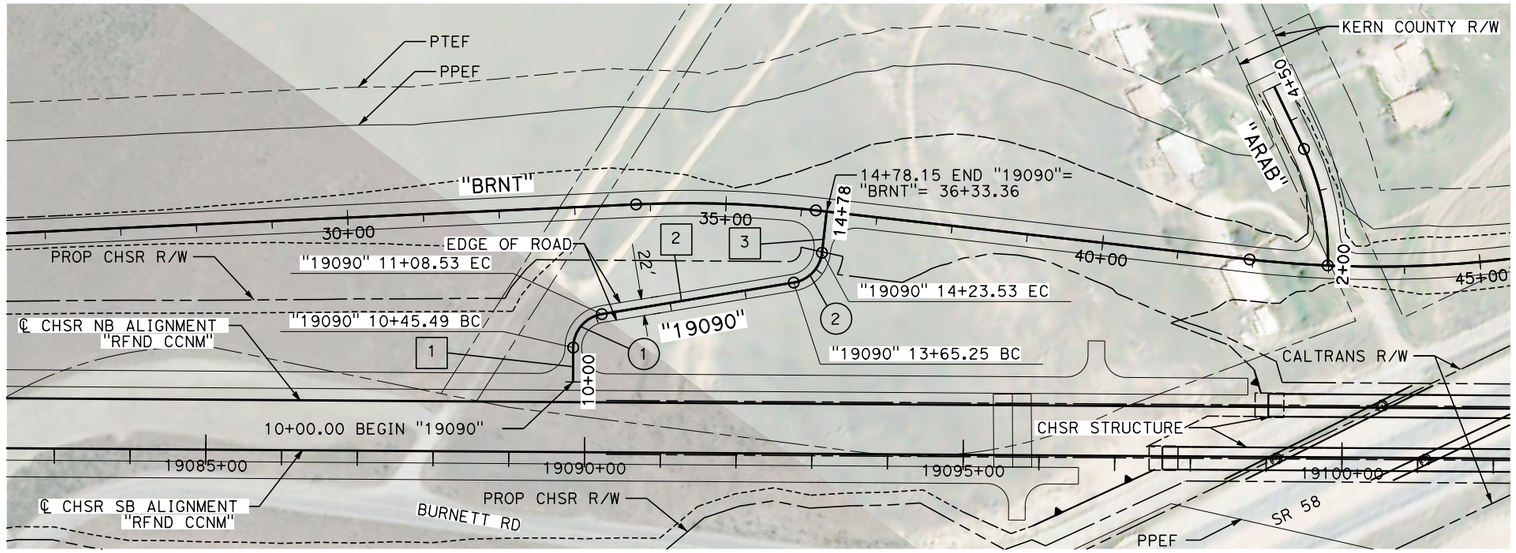
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "19065"
PLAN AND PROFILE

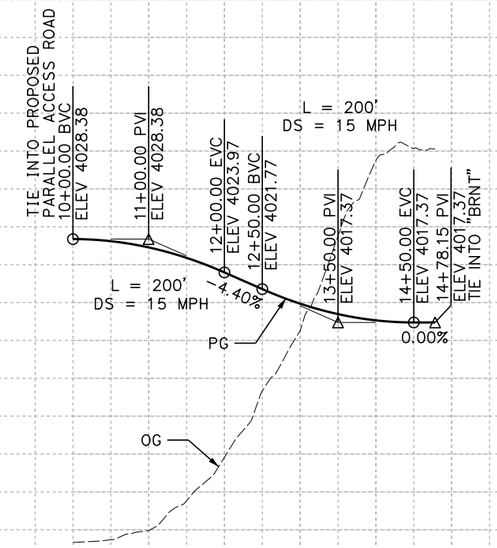
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1620C
SCALE AS SHOWN
SHEET NO. 64



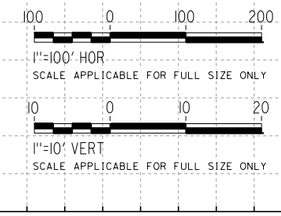
PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	N 53°58'39" E	45.59'
2	N 45°45'26" W	256.72'
3	N 60°02'10" E	54.62'

CURVE DATA				
No.	R	Δ	T	L
1	45.00'	80°15'55"	37.94'	37.94'
2	45.00'	74°12'23"	34.04'	58.28'



PROFILE
"19090"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

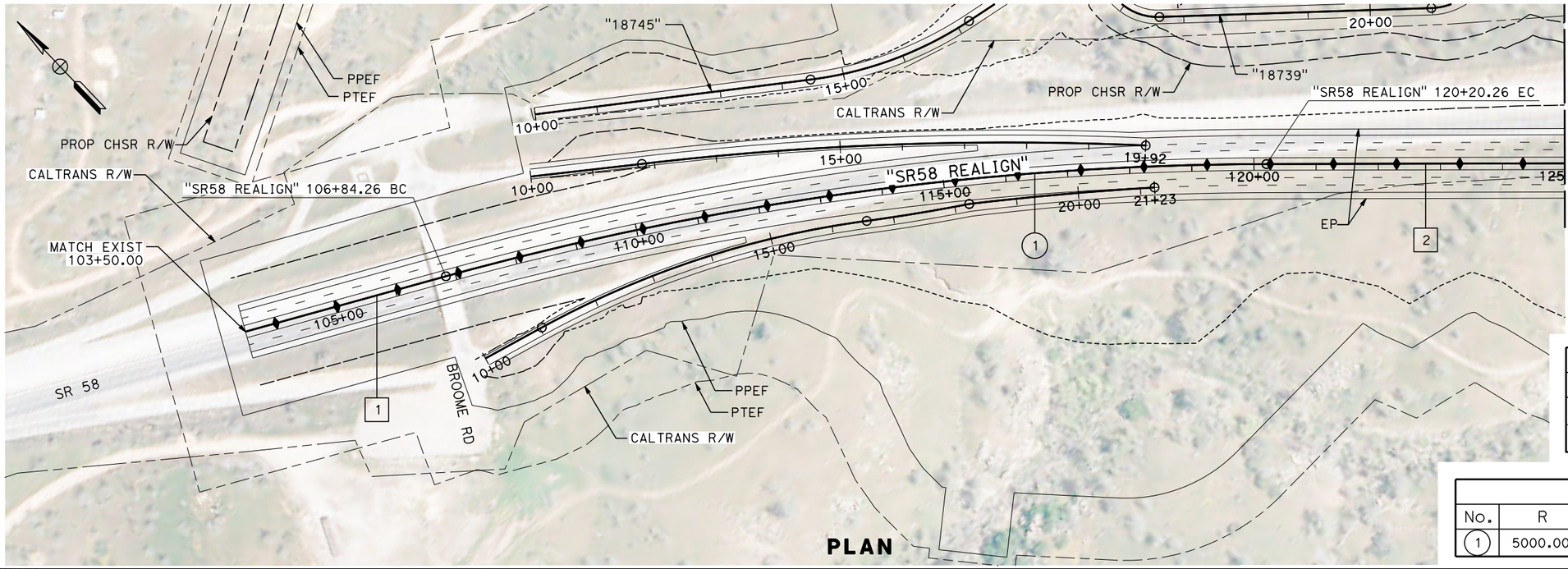
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "19090"
PLAN AND PROFILE

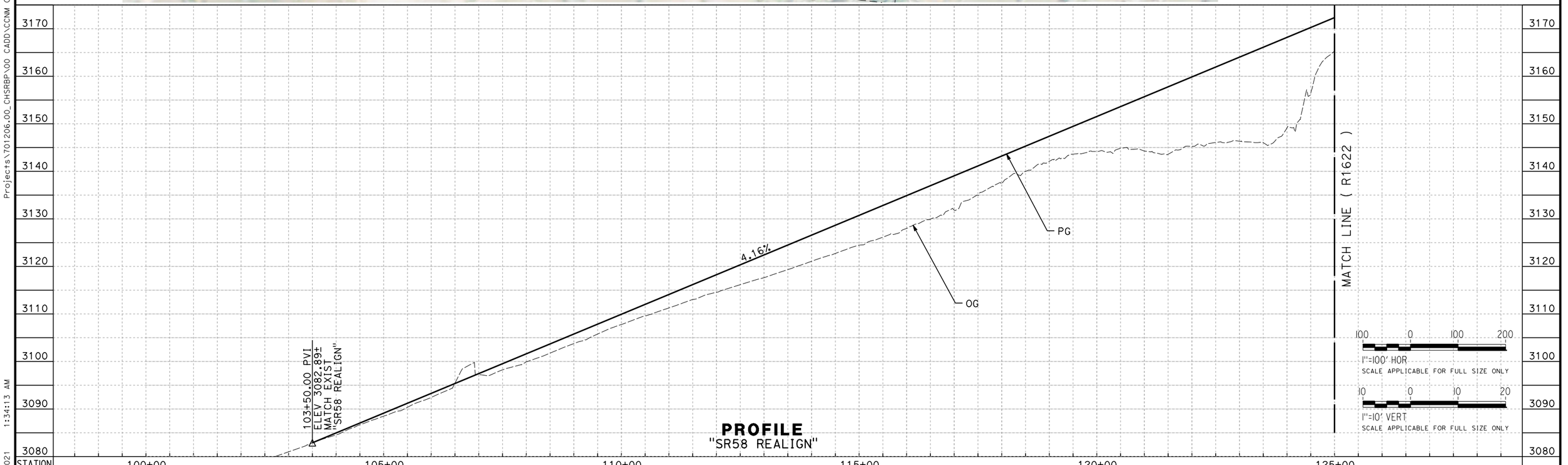
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1620D
SCALE AS SHOWN
SHEET NO. 65



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	N 61°49'52" W	334.26'
2	N 46°31'18" W	6020.82'

CURVE DATA				
No.	R	Δ	T	L
1	5000.00'	15°18'34"	672.00'	1336.00'



PROFILE
"SR58 REALIGN"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

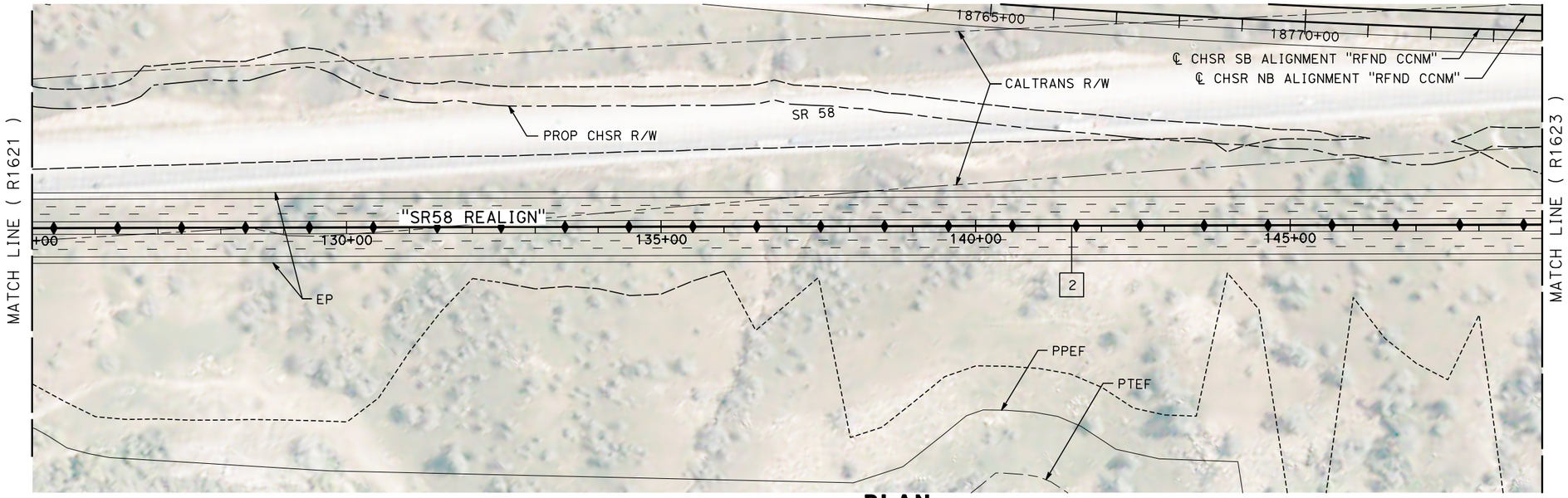
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

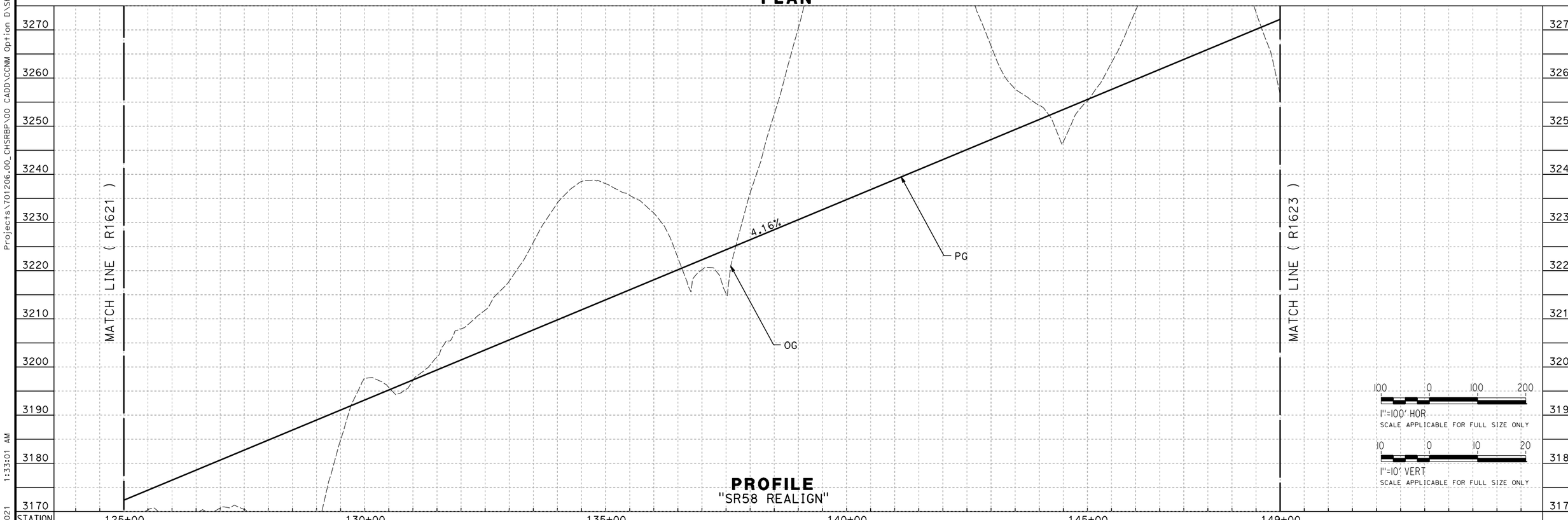
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
SR 58 REALIGNMENT
PLAN AND PROFILE - SHEET 1 OF 4

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1621
SCALE AS SHOWN
SHEET NO. 66



PLAN

LINE DATA		
No.	BEARING	DISTANCE
2	N 46°31'18" W	6020.82'



PROFILE
"SR58 REALIGN"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

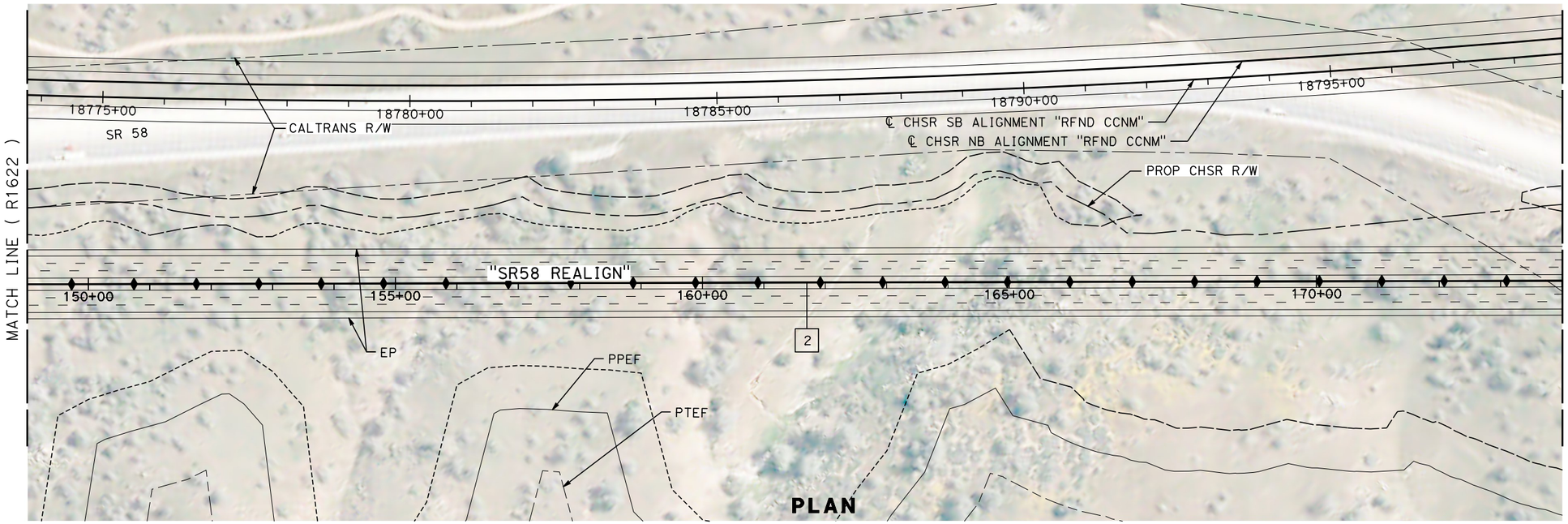
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

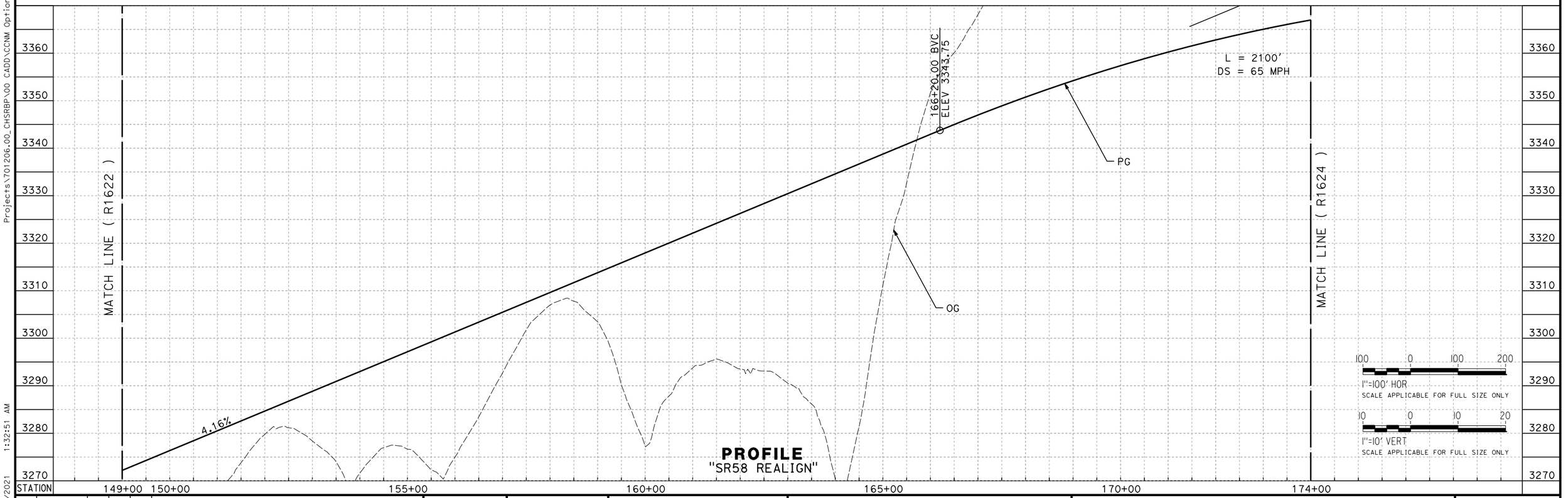
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
SR 58 REALIGNMENT
PLAN AND PROFILE - SHEET 2 OF 4

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1622
SCALE AS SHOWN
SHEET NO. 67



PLAN

LINE DATA		
No.	BEARING	DISTANCE
2	N 46°31'18" W	6020.82'



PROFILE
"SR58 REALIGN"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

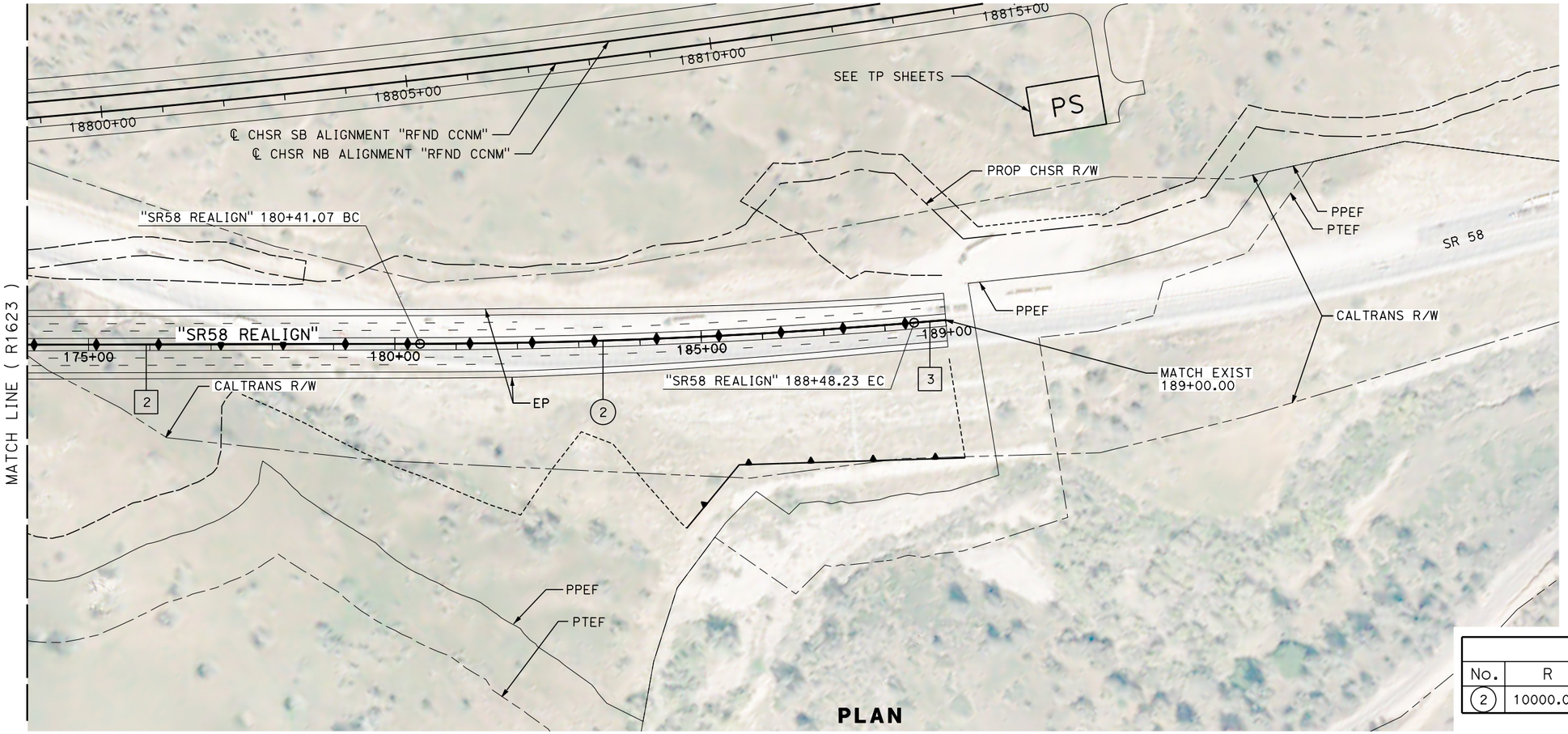
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
SR 58 REALIGNMENT
PLAN AND PROFILE - SHEET 3 OF 4

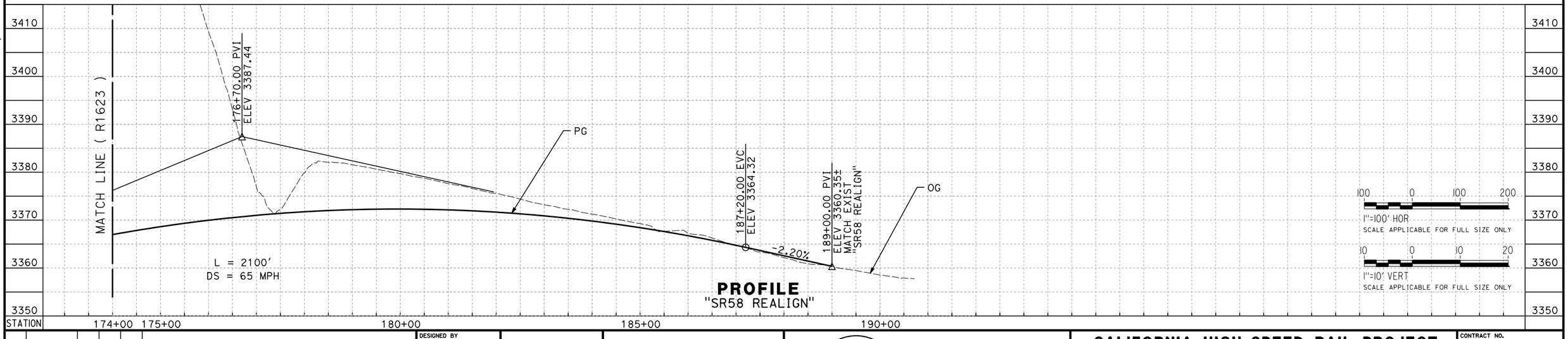
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1623
SCALE AS SHOWN
SHEET NO. 68



PLAN

LINE DATA		
No.	BEARING	DISTANCE
2	N 46°31'18" W	6020.82'
3	N 51°08'47" W	51.77'

CURVE DATA				
No.	R	Δ	T	L
(2)	10000.00'	041°37'29"	403.80'	807.16'



PROFILE
"SR58 REALIGN"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

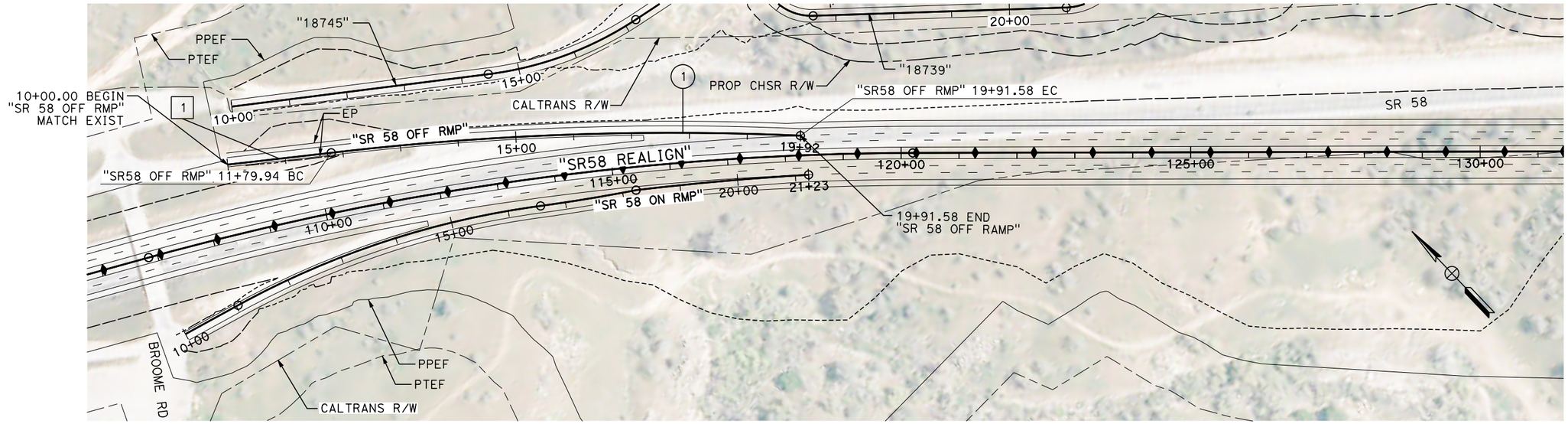
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

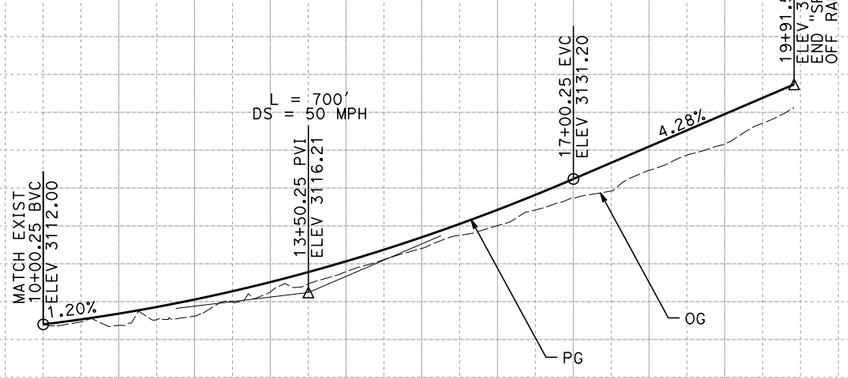
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
SR 58 REALIGNMENT
PLAN AND PROFILE - SHEET 4 OF 4

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1624
SCALE AS SHOWN
SHEET NO. 69



PLAN



PROFILE
"SR 58 OFF RMP"

LINE DATA		
No.	BEARING	DISTANCE
1	N 52°52'35" E	179.94'

CURVE DATA				
No.	R	Δ	T	L
1	5034.00'	9°14'17"	406.70'	811.65'

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

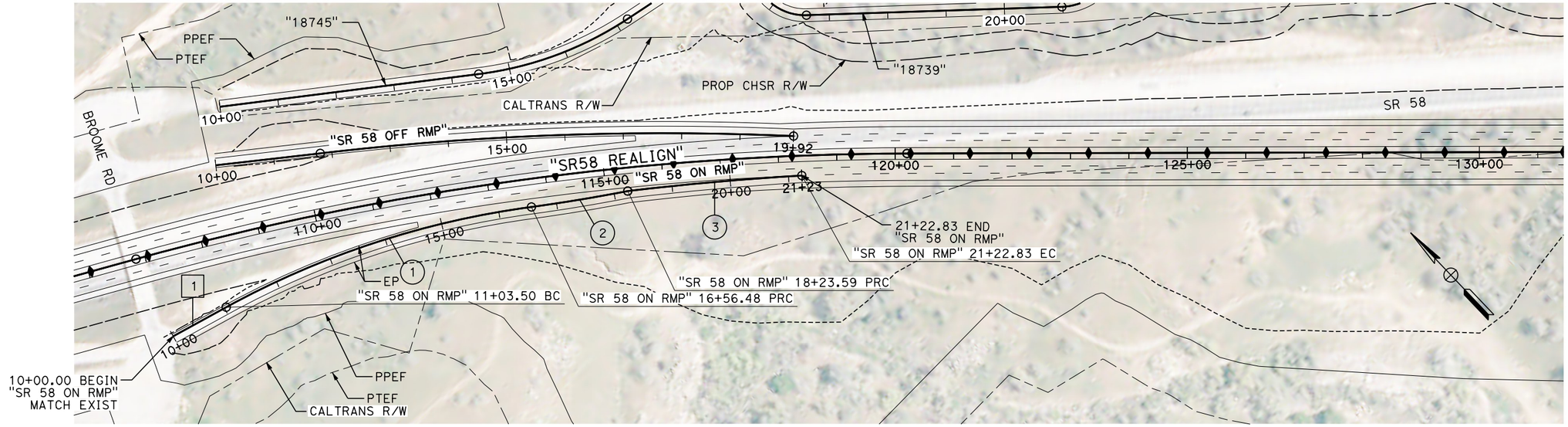
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

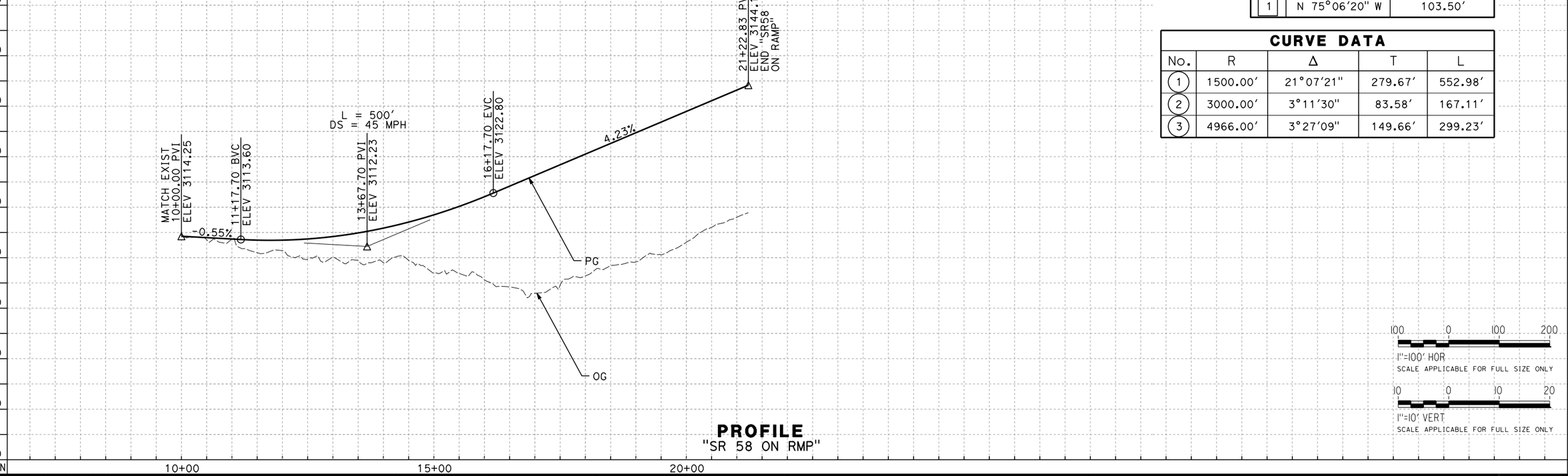
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
SR 58 REALIGNMENT OFF-RAMP
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1625
SCALE AS SHOWN
SHEET NO. 70



PLAN



PROFILE
"SR 58 ON RMP"

LINE DATA		
No.	BEARING	DISTANCE
1	N 75°06'20" W	103.50'

CURVE DATA				
No.	R	Δ	T	L
1	1500.00'	21°07'21"	279.67'	552.98'
2	3000.00'	3°11'30"	83.58'	167.11'
3	4966.00'	3°27'09"	149.66'	299.23'

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CARSON
DRAWN BY A. CARSON
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

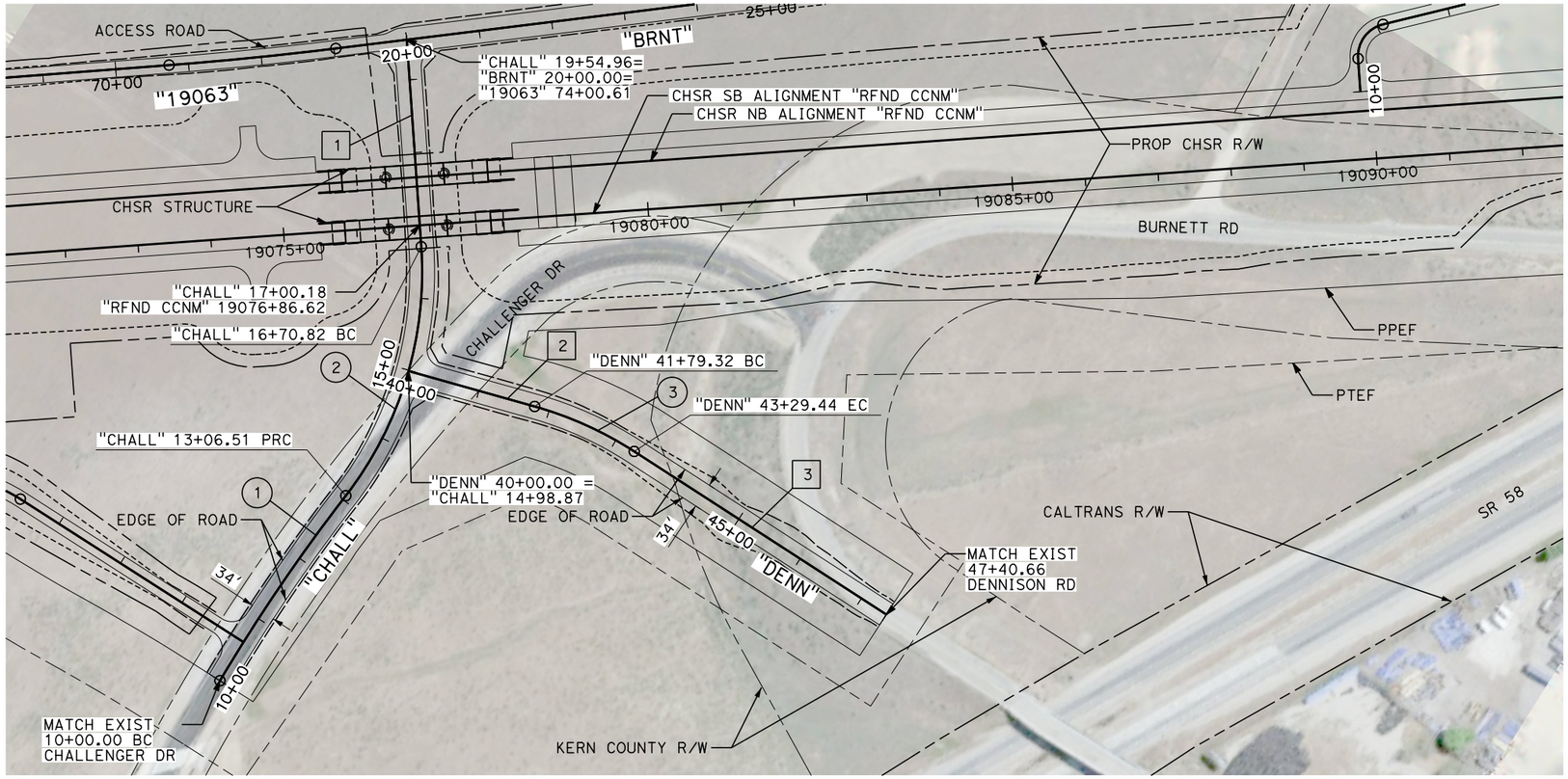
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
SR 58 REALIGNMENT ON-RAMP
PLAN AND PROFILE

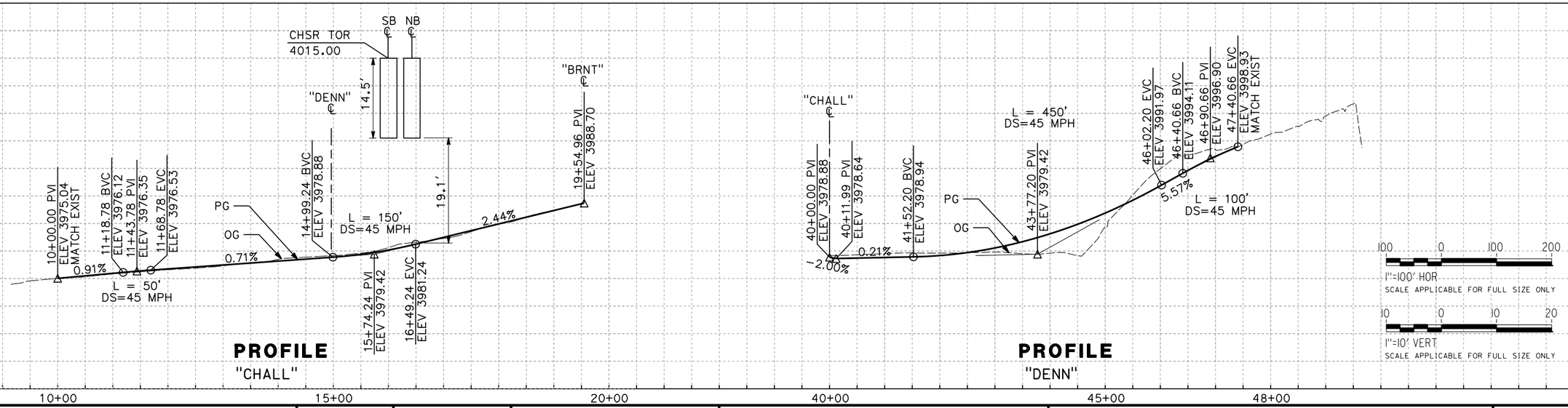
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1626
SCALE AS SHOWN
SHEET NO. 71



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	N 53°58′05" E	284.14′
2	S 16°19′41" E	179.32′
3	S 00°52′28" W	411.21′

CURVE DATA				
No.	R	Δ	T	L
1	2500.00′	07°01′29"	153.45′	306.51′
2	500.00′	41°44′48"	190.67′	364.31′
3	500.00′	17°12′09"	75.63′	150.12′



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

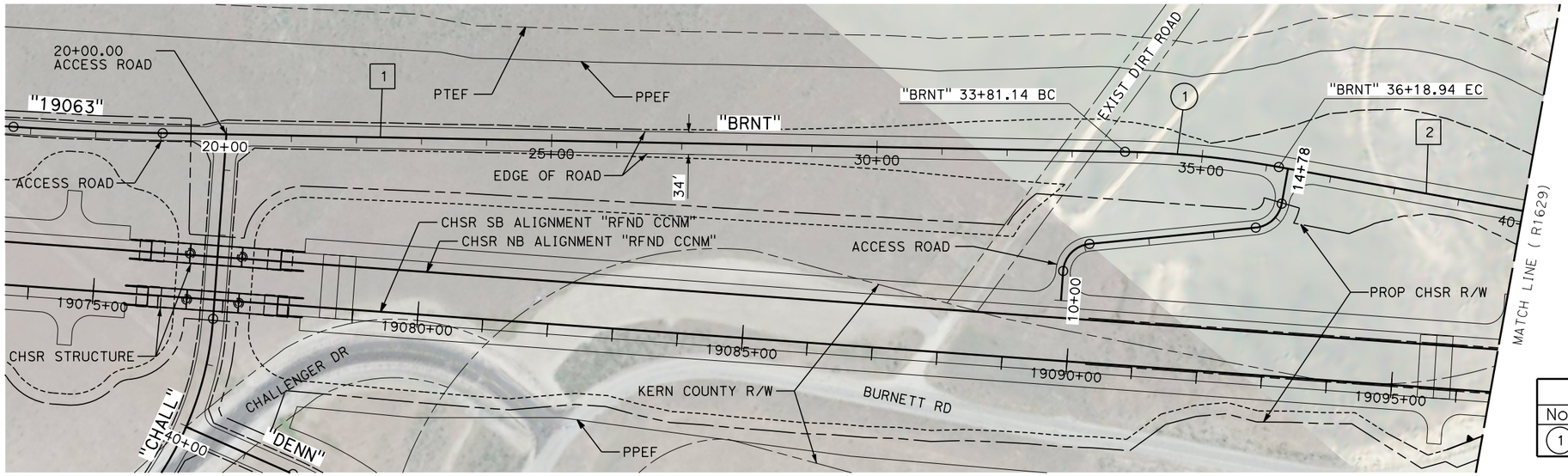
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
CHALLENGER DRIVE AND DENNISON ROAD
PLAN AND PROFILE

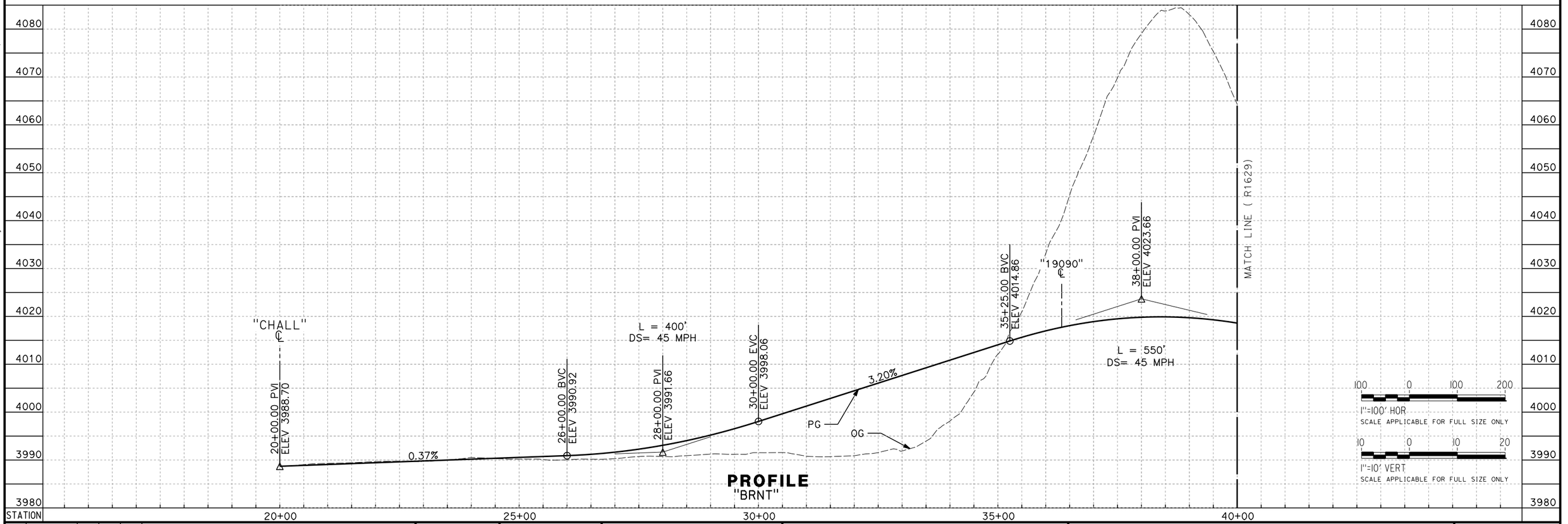
CONTRACT NO. HSR13-44
DRAWING NO. CV-R1627
SCALE AS SHOWN
SHEET NO. 72



PLAN

LINE DATA		
No.	BEARING	DISTANCE
1	S 39°02'49" E	1381.14'
2	S 29°57'50" E	576.31'

CURVE DATA				
No.	R	Δ	T	L
1	1500.00'	09°05'00"	119.15'	237.55'



PROFILE
"BRNT"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

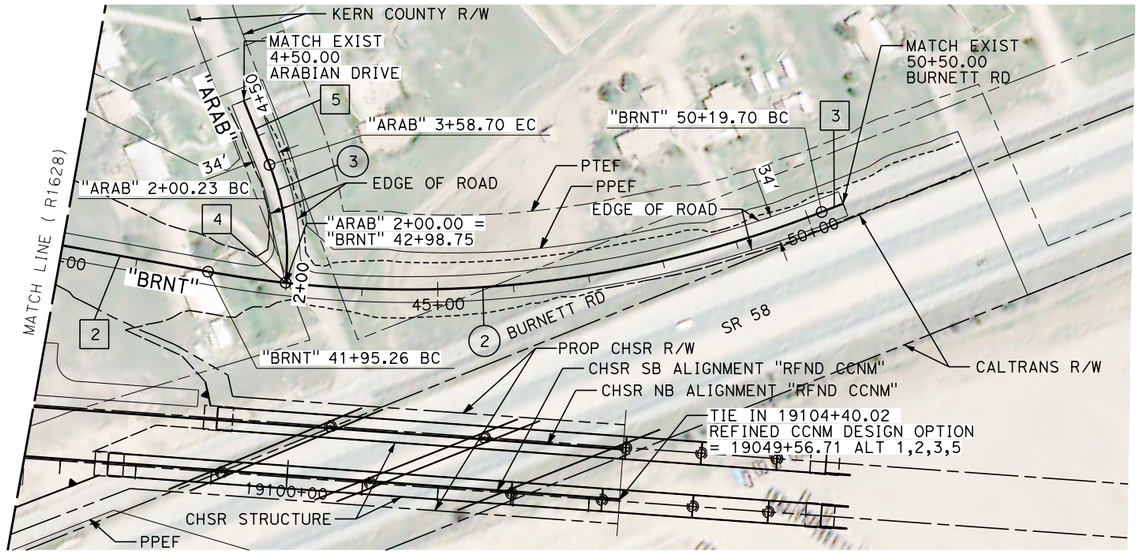
NOT FOR CONSTRUCTION

T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
BURNETT ROAD
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1628
SCALE AS SHOWN
SHEET NO. 73



PLAN

LINE DATA		
No.	BEARING	DISTANCE
2	S 29°57'50" E	576.31'
3	S 61°27'19" E	30.30'
4	N 56°05'02" E	0.23'
5	N 28°03'39" E	91.30'

CURVE DATA				
No.	R	Δ	T	L
2	1500.00'	31°29'29"	422.92'	824.44'
3	324.00'	28°01'23"	80.85'	158.47'

PROFILE
"BRNT"

PROFILE
"ARAB"

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY P. BRAND
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
ROADWAY
BURNETT ROAD AND ARABIAN DRIVE
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1629
SCALE AS SHOWN
SHEET NO. 74

LEGEND

NORTH ARROW

PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT

PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT

LIMITS OF EXCAVATION (CUT)

LIMITS OF EMBANKMENT (FILL)

CONSTRUCTION STAGING / LAYDOWN AREA, ROCK CRUSHING PLANT, OR ROCK CRUSHING & PRECAST OPERATIONS YARD

PROPOSED RETAINING WALL

PHASE 1

PHASE 2

PHASE 3

CUT AREAS

FILL AREAS

GENERAL NOTES

1. THIS IS A HIGH LEVEL SCHEMATIC DESIGN AND NOT INTENDED FOR USE DURING CONSTRUCTION.
2. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN.
3. TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET OF PLANS.
4. LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
5. DETAILED PHASING OF LONG CHSR VIADUCTS ARE NOT SHOWN.
6. LMF (LIGHT MAINTENANCE FACILITY), MOWF (MAINTENANCE OF WAY FACILITY), MOWS (MAINTENANCE OF WAY SIDING), TPF (TRACTION POWER FACILITY), TPS (TRACTION POWER SUBSTATION) ARE SHOWN, BUT NOT INCLUDED IN THE SEQUENCING.
7. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
8. DRAINAGE OVERCROSSINGS ALONG THE ALIGNMENTS ARE NOT SHOWN IN THE SEQUENCING PLANS.

ABBREVIATIONS

CHSR	CALIFORNIA HIGH SPEED RAIL
D&B	DRILL AND BLAST
LMF	LIGHT MAINTENANCE FACILITY
MOWF	MAINTENANCE OF WAY FACILITY
MOWS	MAINTENANCE OF WAY SIDING
OH	OVERHEAD
RS-WA	RAIL STORAGE & WELDING AREA
SEM	SEQUENTIAL EXCAVATION METHOD
STA	STATION
TPF	TRACTION POWER FACILITY
TPS	TRACTION POWER SUPPLY SYSTEM
TPSS	TRACTION POWER SUBSTATION
TBM	TUNNEL BORING MACHINE
UC	UNDERCROSSING
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. TURRELL
DRAWN BY B. MOZAFFARIAN
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

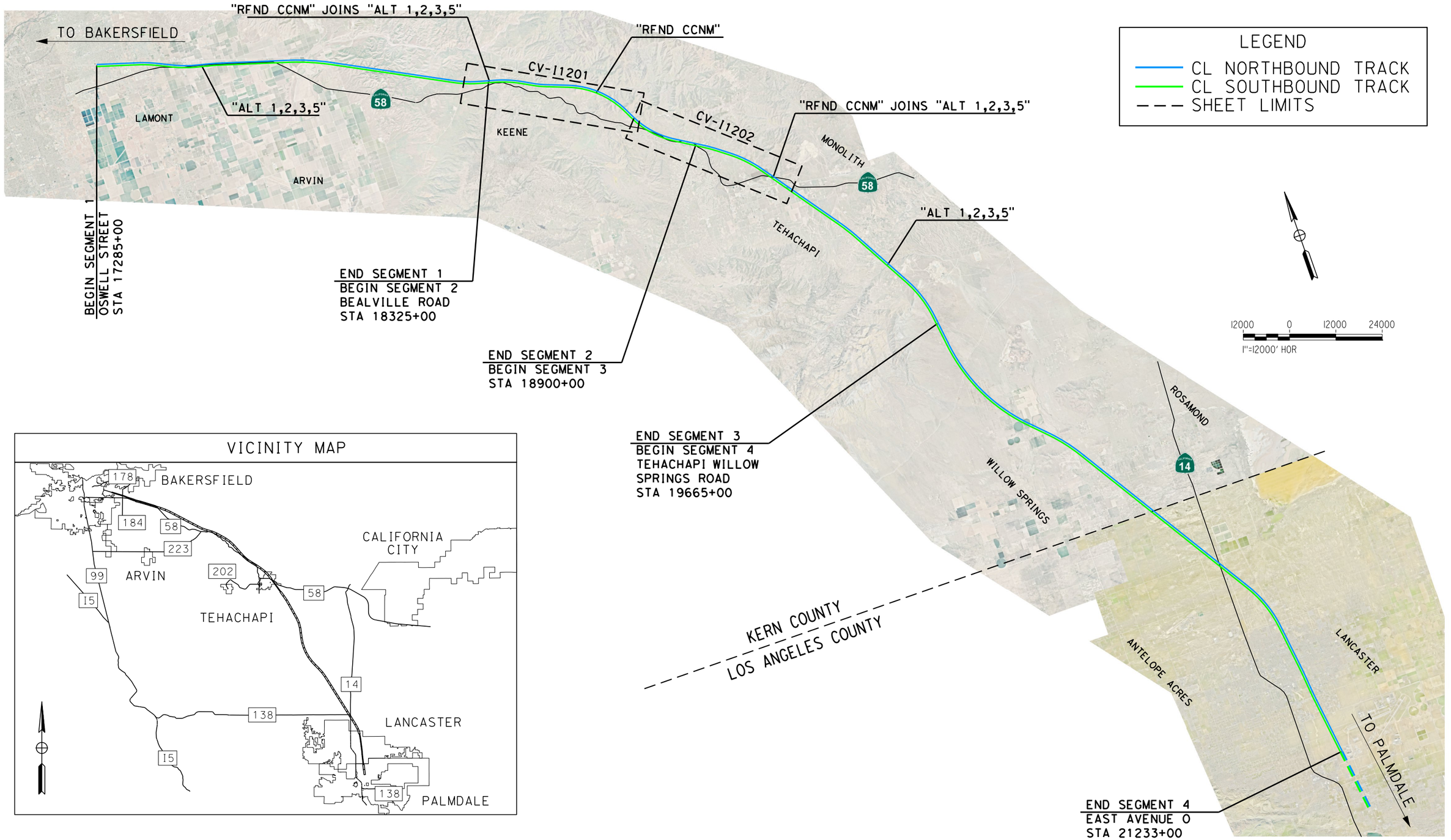
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
CONSTRUCTION SEQUENCING GENERAL NOTES & LEGEND

CONTRACT NO. HSR13-44
DRAWING NO. CV-I0101
SCALE NO SCALE
SHEET NO. 75

12/28/2020 10:21:51 PM $USER$ $PENTBLS$ $PLTDRVS$ $FILE$



VICINITY MAP

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. TURRELL
DRAWN BY B. MOZAFFARIAN
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

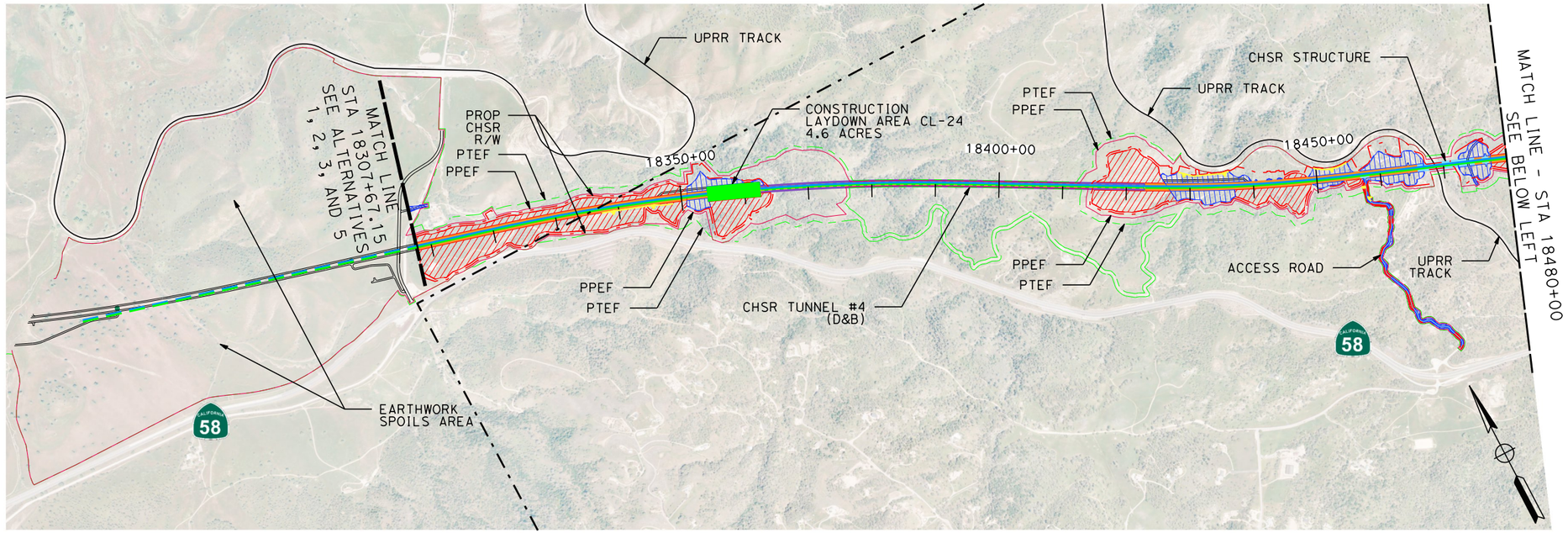
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
CONSTRUCTION SEQUENCING GENERAL
KEY MAP

CONTRACT NO. HSR13-44
DRAWING NO. CV-10102
SCALE AS SHOWN
SHEET NO. 76

$USER$ 12/28/2020 10:22:27 PM $PENTBLS$ $PLTDRVS$ $FILE$

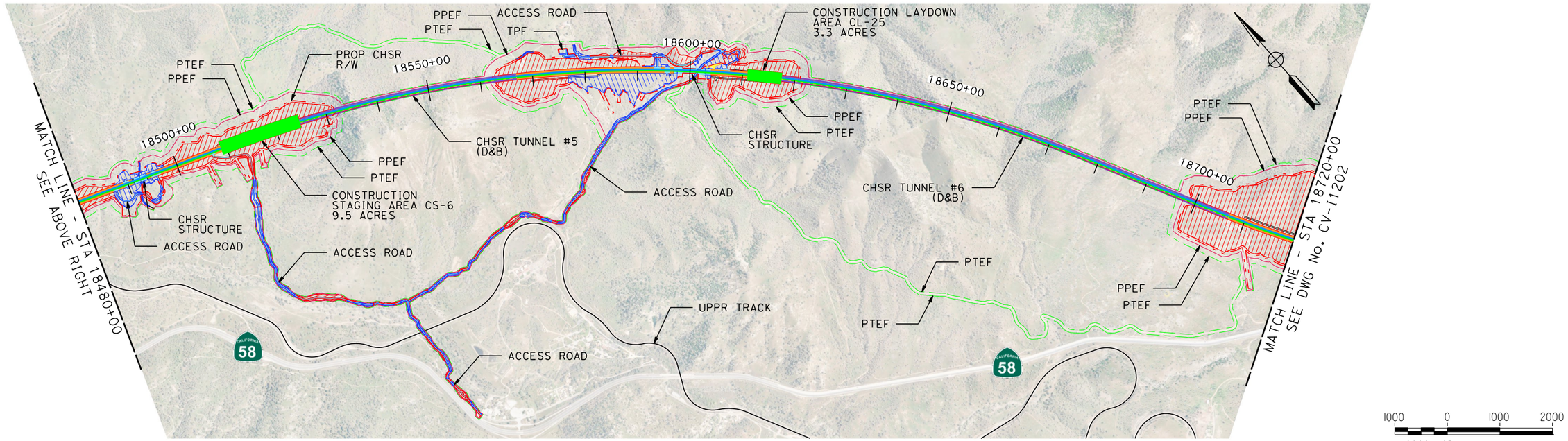
SEGMENT 2 — PHASE 1 — PHASE 2 — PHASE 3

"ALL PHASING AT CONTRACTOR'S DISCRETION"



SEGMENT 2 — PHASE 1 — PHASE 2 — PHASE 3

"ALL PHASING AT CONTRACTOR'S DISCRETION"



1000 0 1000 2000

1"=2000' HOR

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. TURRELL
DRAWN BY B. MOZAFFARIAN
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

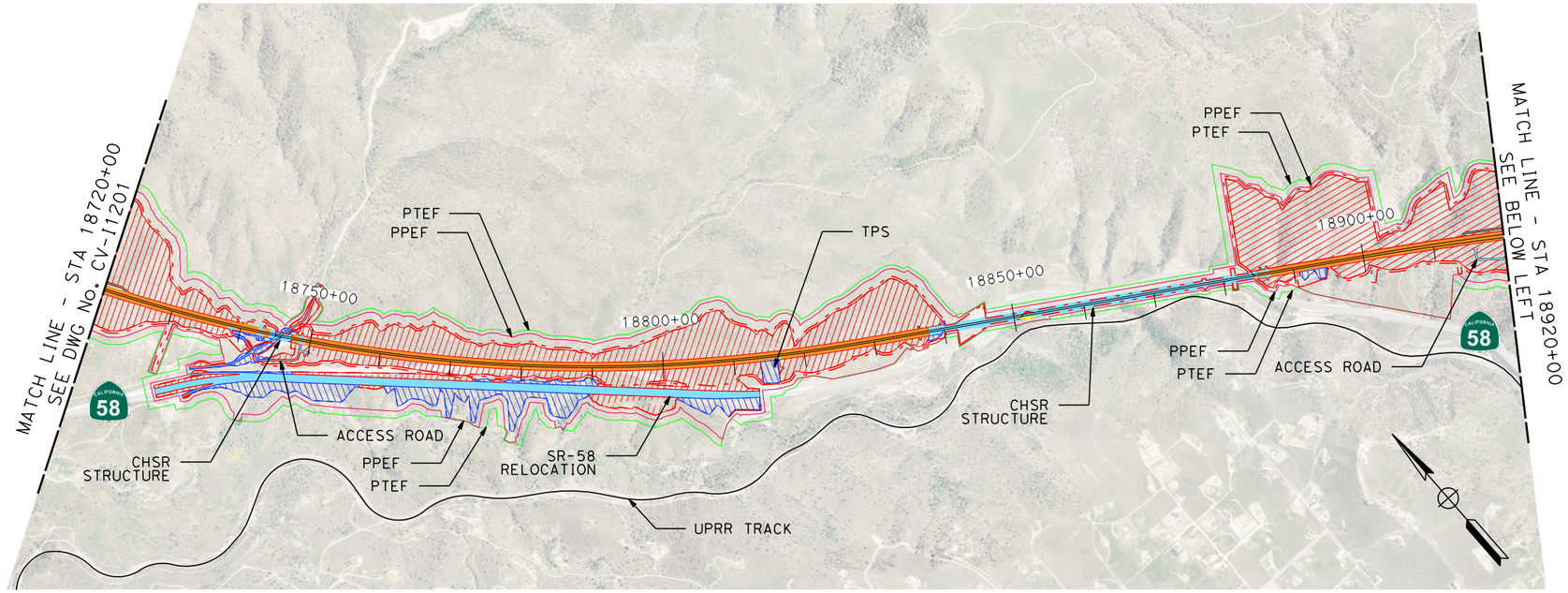
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
CONSTRUCTION SEQUENCING
SHEET 1 OF 2

CONTRACT NO. HSR13-44
DRAWING NO. CV-11201
SCALE AS SHOWN
SHEET NO. 77

$USER$ $PENTBLS$ $PLTDRVS$ $FILE$ 1/27/2021 9:56:40 PM

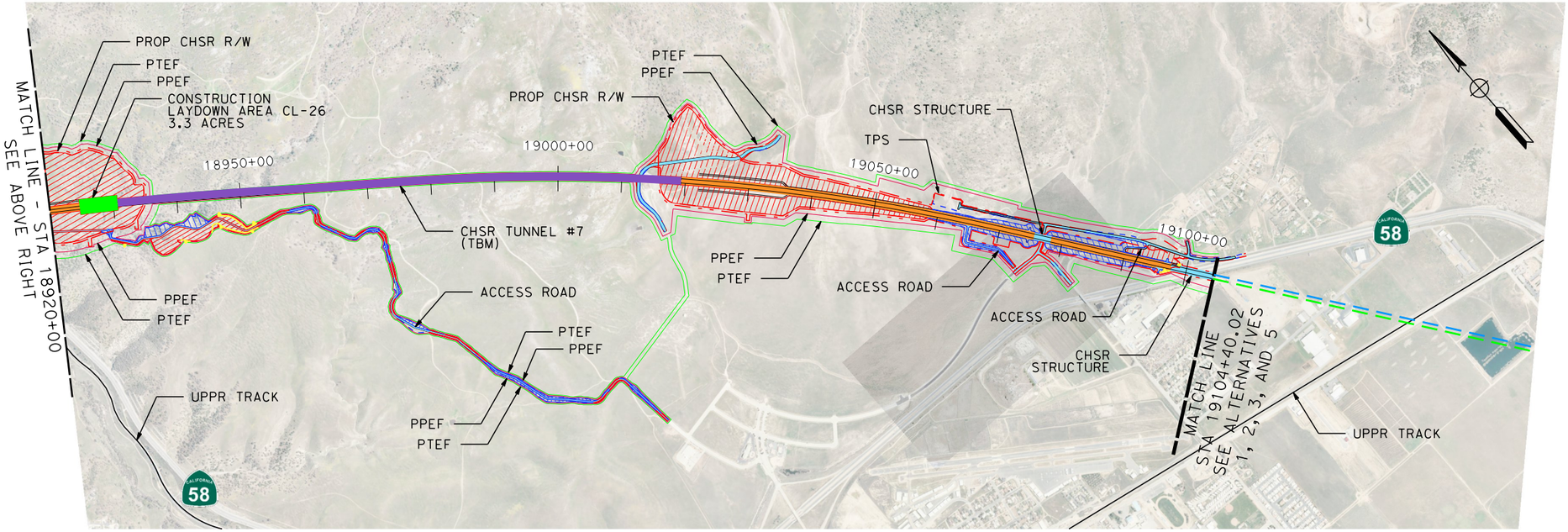
SEGMENT 2 — PHASE 1 — PHASE 2 — PHASE 3

"ALL PHASING AT CONTRACTOR'S DISCRETION"



SEGMENT 2 — PHASE 1 — PHASE 2 — PHASE 3

"ALL PHASING AT CONTRACTOR'S DISCRETION"



1000 0 1000 2000

1"=2000' HOR

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY J. TURRELL
DRAWN BY B. MOZAFFARIAN
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
CONSTRUCTION SEQUENCING
SHEET 2 OF 2

CONTRACT NO. HSR13-44
DRAWING NO. CV-I1202
SCALE AS SHOWN
SHEET NO. 78

$USER$ 1/27/2021 9:56:34 PM $PENTBLS$ $PLTDRVS$ $FILE$

LEGEND

NORTH ARROW

OFFSITE DRAINAGE DITCH (OFFSITE DITCH)

ONSITE DRAINAGE DITCH (ONSITE DITCH)

ROADWAY DRAINAGE DITCH (ROADWAY DITCH)

EXISTING STORM DRAIN

PROPOSED ONSITE STORM DRAIN (ONSITE CULVERT)

PROPOSED PROFILED OFFSITE STORM DRAIN (OFFSITE CULVERT "XXXXX+XX")

PROPOSED NON PROFILED OFFSITE STORM DRAIN (SD)

PROPOSED DRAINAGE BASIN
(ONSITE BASIN / COLLECTION BASIN / SPREADER BASIN)

ROCK SLOPE PROTECTION PAD (RSP)

DRAINAGE INLET (DI)

DRAINAGE MANHOLE (MH)

RETAINING WALL

PROP CHSR R/W

CUT GRADING LIMIT (C)

FILL GRADING LIMIT (F)

TUNNEL

VIADUCT

WILDLIFE CROSSING

ACCESS ROAD CROSSING PANEL

100-YEAR FEMA FLOODPLAIN BOUNDARY

GENERAL NOTES

NOTES

1. CULVERT STATION DESIGNATED AT THE INTERSECTION OF THE CHSR SB CONTROL LINE STATION AND THE CULVERT CENTERLINE.
2. RSP, BASIN, AND DITCH LOCATIONS ARE SCHEMATIC. GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
3. PROPOSED FINISHED GRADING IS NOT REFLECTED NEAR TUNNEL PORTALS, BRIDGE CONES, TRACK FACILITIES, AND ROADS. GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
4. SLOPE FILL TO BE USED, AS NEEDED, TO ALLOW FOR POSITIVE ONSITE DITCH DRAINAGE ABOVE THE PROPOSED OFFSITE DRAINAGE CULVERTS.
5. SUBSTANTIAL NATURAL WATERCOURSES THAT HAVE BEEN ENCROACHED INTO BY ACCESS ROAD OR TRACK FILL MAY NEED TO BE REALIGNED. LOCATIONS TO BE LOCATED AND ANALYZED DURING FINAL ENGINEERING.
6. TRACTION POWER AND TRAIN CONTROL FACILITY GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
7. REFER TO ENGINEERING TECHNICAL MEMO 2.6.5 FOR HYDRAULIC AND HYDROLOGY DESIGN GUIDELINES.
8. RSP TO BE PLACED ALONG THE EDGE OF ALL ACCESS ROADS WITHIN FLOODPLAIN BOUNDARIES.

PROFILE NOTES

1. PROFILE CUT ALONG CULVERT CENTERLINE.
2. CULVERT PROFILES DO NOT REFLECT RSP, BASIN, AND DITCH GRADING.

WATER QUALITY NOTES

1. TRACK AND ACCESS ROAD BMP DESIGNS TO BE COMPLETED AFTER CONSULTATION WITH THE APPROPRIATE REGULATORY AGENCIES DURING FINAL ENGINEERING.
2. ACCESS ROAD CURB(S) SHALL DIRECT STORMWATER TO STORM DRAIN (SD), SLOPE DOWN DRAIN, AND/OR BMP. SUPERELEVATE ACCESS ROAD, AS NEEDED, TO DIRECT STORMWATER TO BMP.

ROADWAY UNDERCROSSING PUMP STATION NOTE

1. ROADWAY UNDERCROSSING PUMP STATION LOCATIONS ARE SCHEMATIC. DESIGN TO BE COMPLETED DURING FINAL ENGINEERING.

UTILITY NOTES

1. IT IS ASSUMED THAT ALL EXISTING DRAINAGE UTILITIES THAT ARE LOCATED WITHIN THE HSR TRACK GRADING LIMITS WILL BE REMOVED AND ALL EXISTING DRAINAGE UTILITIES THAT ARE LOCATED WITHIN ROADWAY OR ACCESS ROAD GRADING LIMITS WILL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON PLANS.
2. THE OFFSITE DISPOSITION/RECONNECTION OF REMOVED DRAINAGE UTILITIES (ITEM 1) WILL BE DETERMINED DURING FINAL ENGINEERING AND IN CONSULTATION WITH THE JURISDICTIONAL AGENCY AND/OR PROPERTY OWNER.
3. THE DISPOSITION OF EXISTING DRAINAGE FACILITIES THAT ARE LOCATED ALONGSIDE BUT WITHIN THE PROJECT FOOTPRINT, WILL BE DETERMINED DURING FINAL ENGINEERING.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

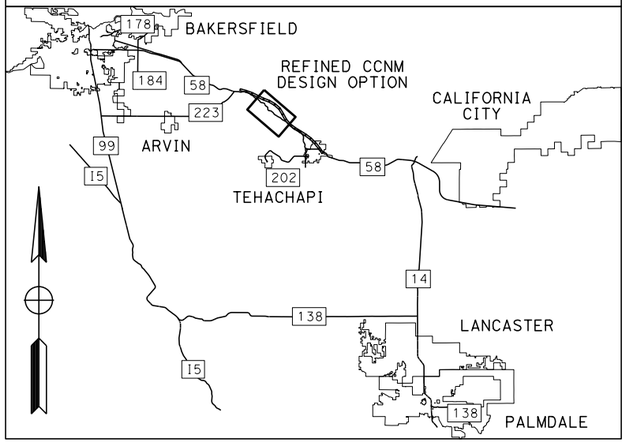
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

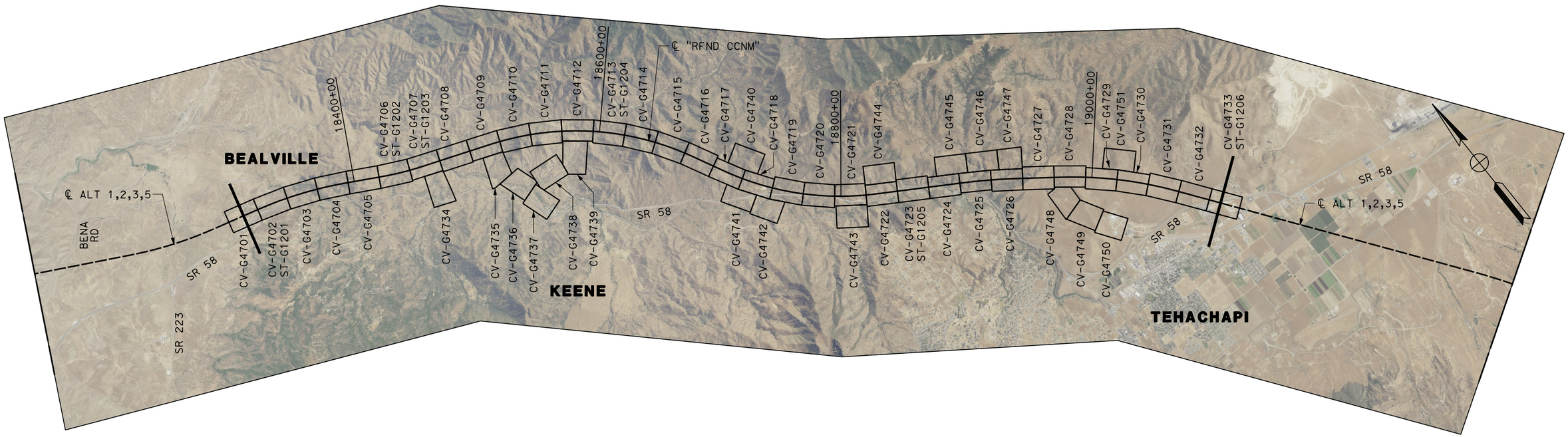
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING, DRAINAGE, AND RETAINING WALLS
LEGEND AND GENERAL NOTES

CONTRACT NO. HSR13-44
DRAWING NO. CV-G0101
SCALE NO SCALE
SHEET NO. 79

VICINITY MAP



REFINED CCNM DESIGN OPTION



4000 0 4000 8000
1"=4000' HOR

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

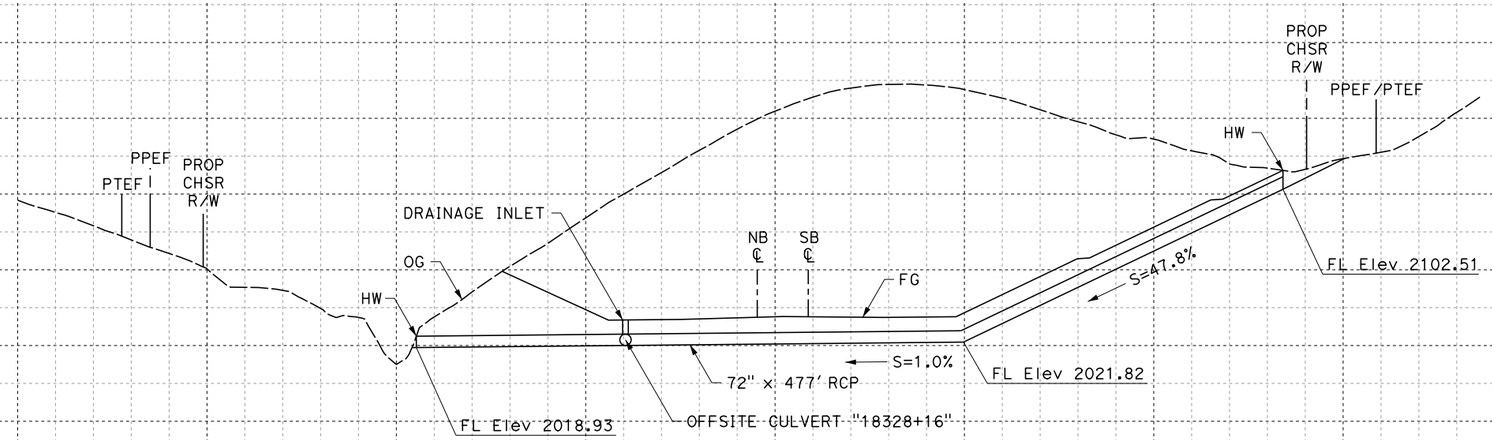
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING, DRAINAGE, AND RETAINING WALLS
KEY MAP

CONTRACT NO. HSR13-44
DRAWING NO. CV-G0102
SCALE AS SHOWN
SHEET NO. 80



HSR SB LINE STA 18320+86

40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

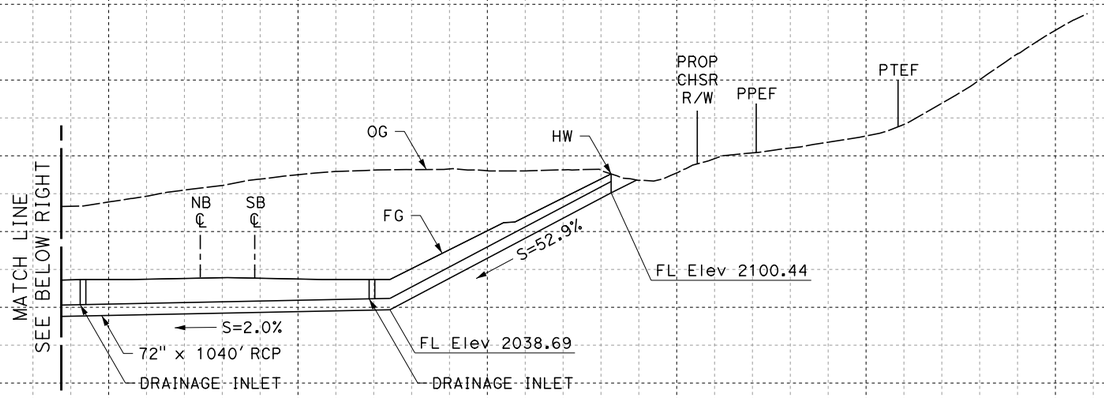
T-Y LIN INTERNATIONAL

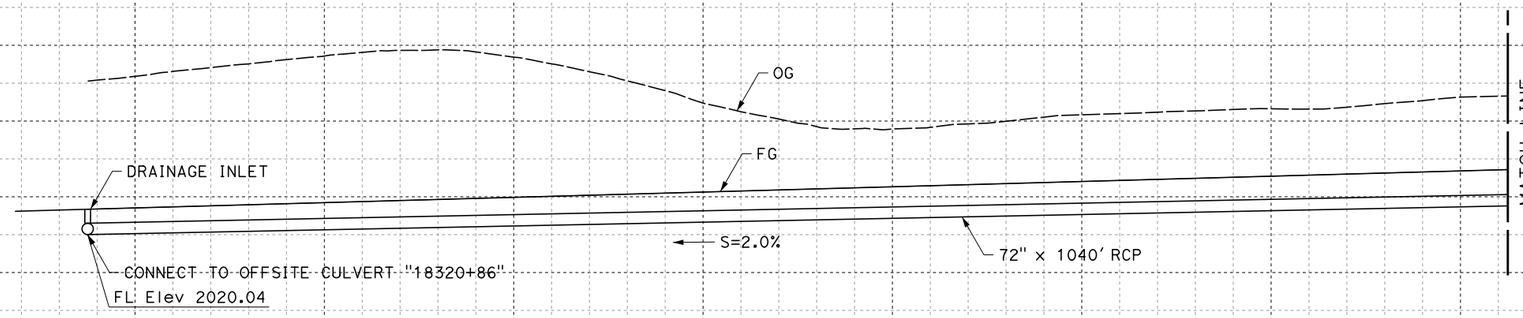
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18320+86

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1501
SCALE AS SHOWN
SHEET NO. 81





HSR SB LINE STA 18328+16

40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

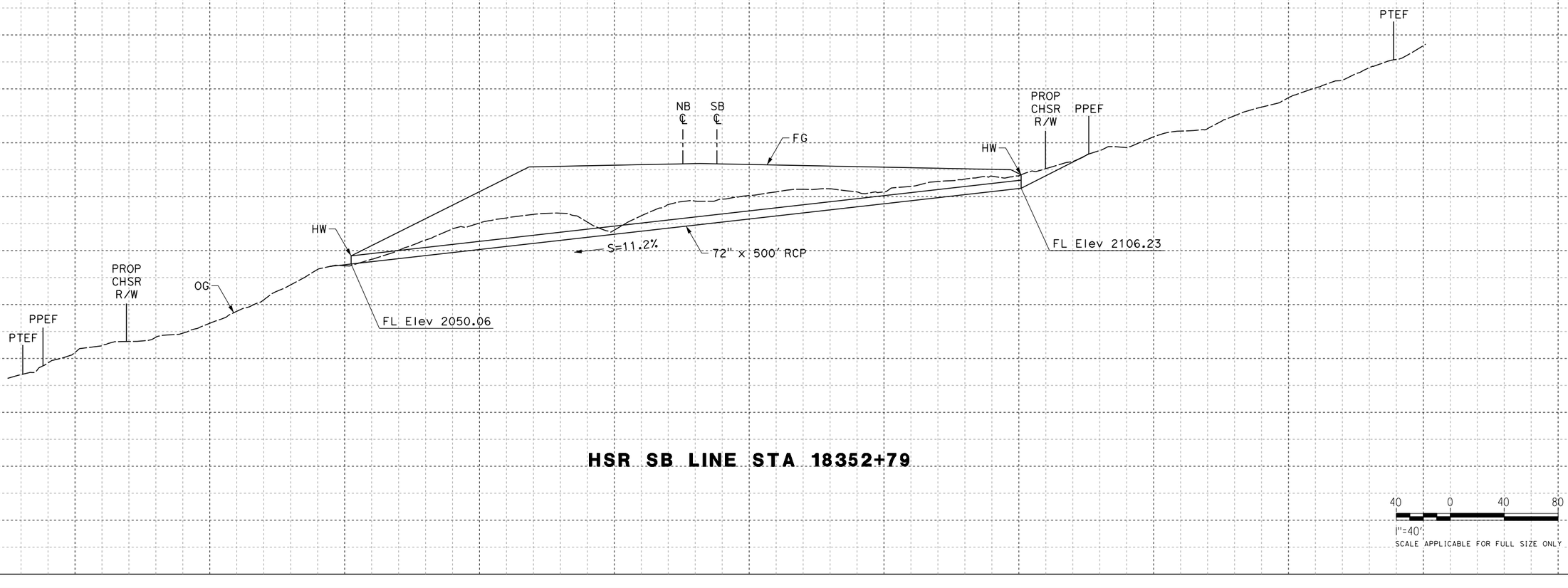
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18328+16

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1502
SCALE AS SHOWN
SHEET NO. 82



HSR SB LINE STA 18352+79

40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

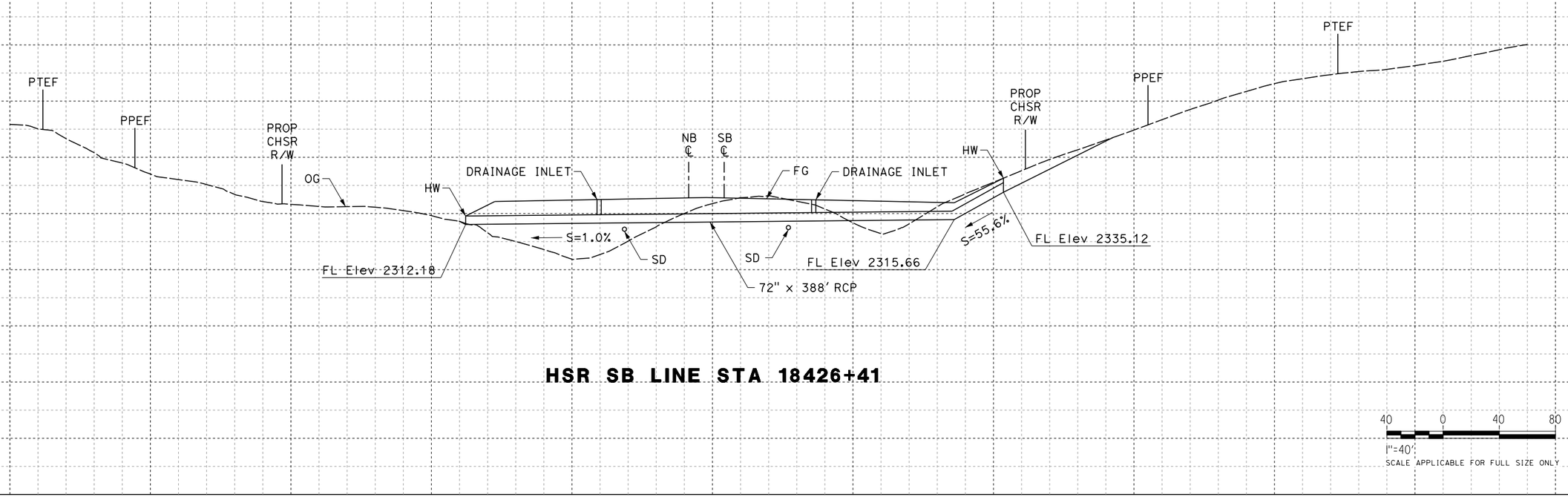
NOT FOR CONSTRUCTION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18352+79

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1503
SCALE AS SHOWN
SHEET NO. 83



HSR SB LINE STA 18426+41

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

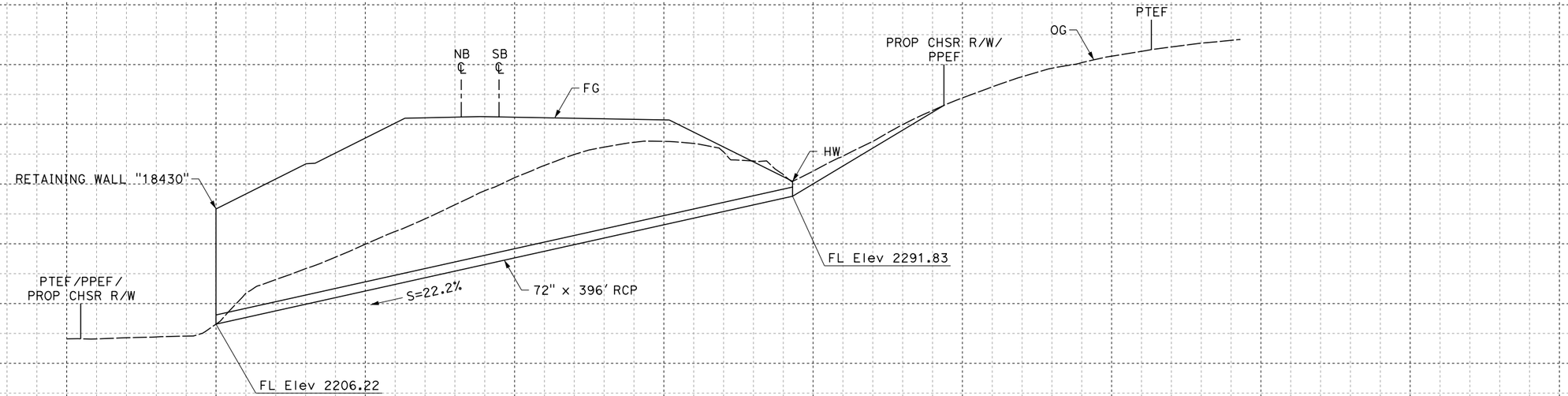
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18426+41

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1504
SCALE AS SHOWN
SHEET NO. 84



HSR SB LINE STA 18431+40

40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

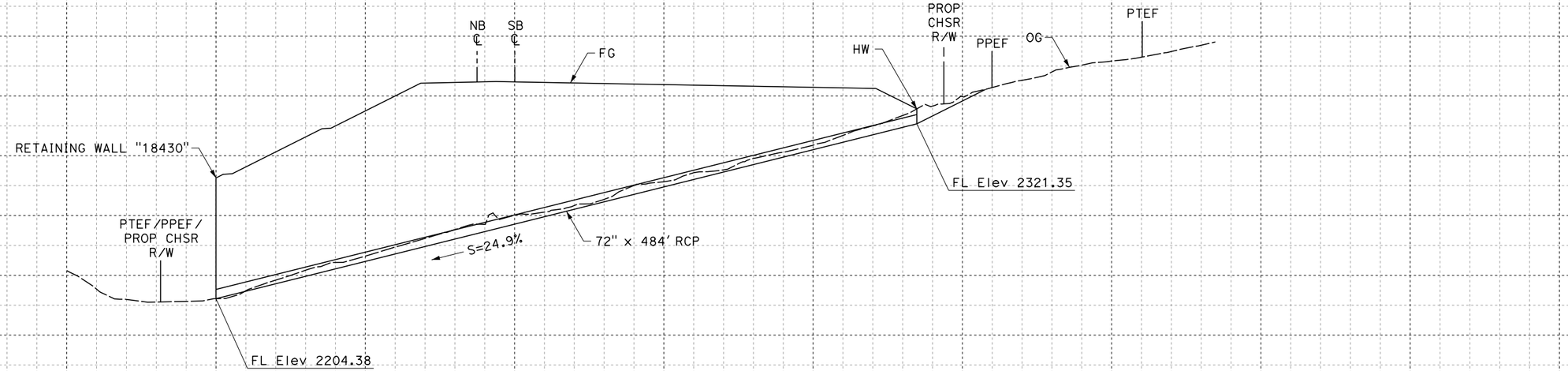
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18431+40

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1505
SCALE AS SHOWN
SHEET NO. 85



HSR SB LINE STA 18433+21

40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

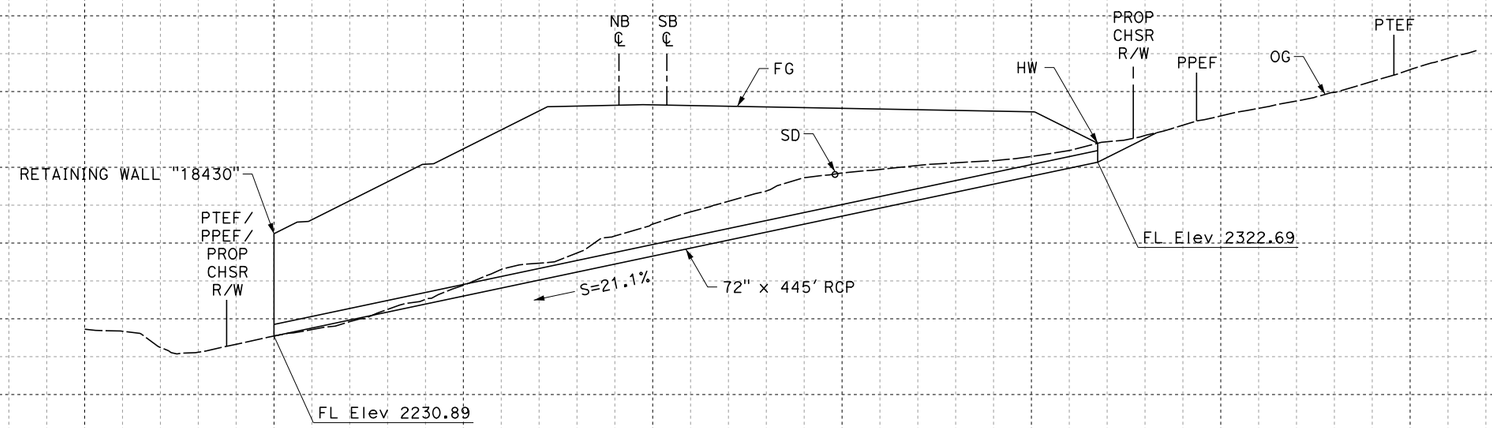
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18433+21

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1506
SCALE AS SHOWN
SHEET NO. 86



HSR SB LINE STA 18434+43

40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

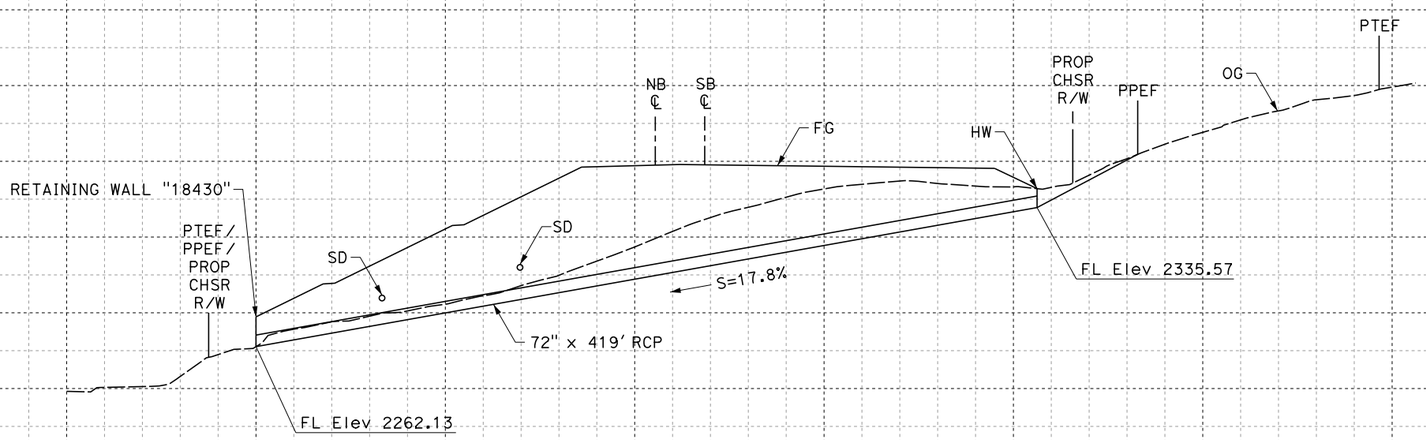
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18434+43

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1507
SCALE AS SHOWN
SHEET NO. 87



HSR SB LINE STA 18436+44

40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

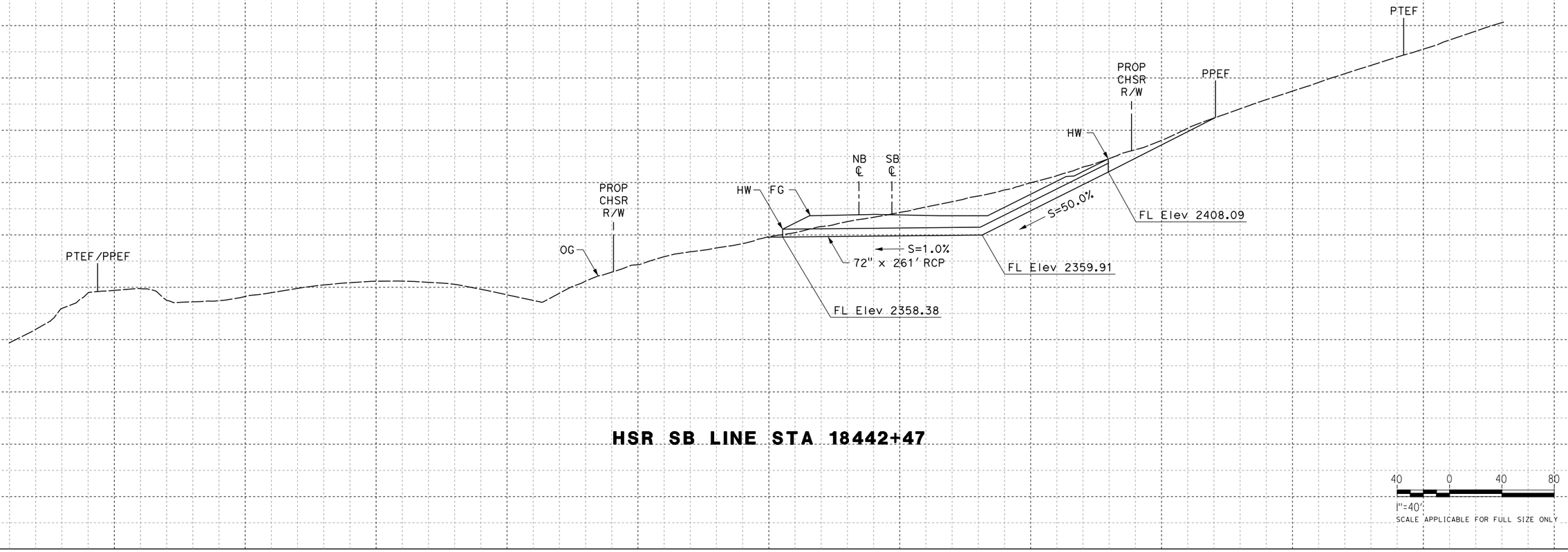
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18436+44

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1508
SCALE AS SHOWN
SHEET NO. 88



HSR SB LINE STA 18442+47

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

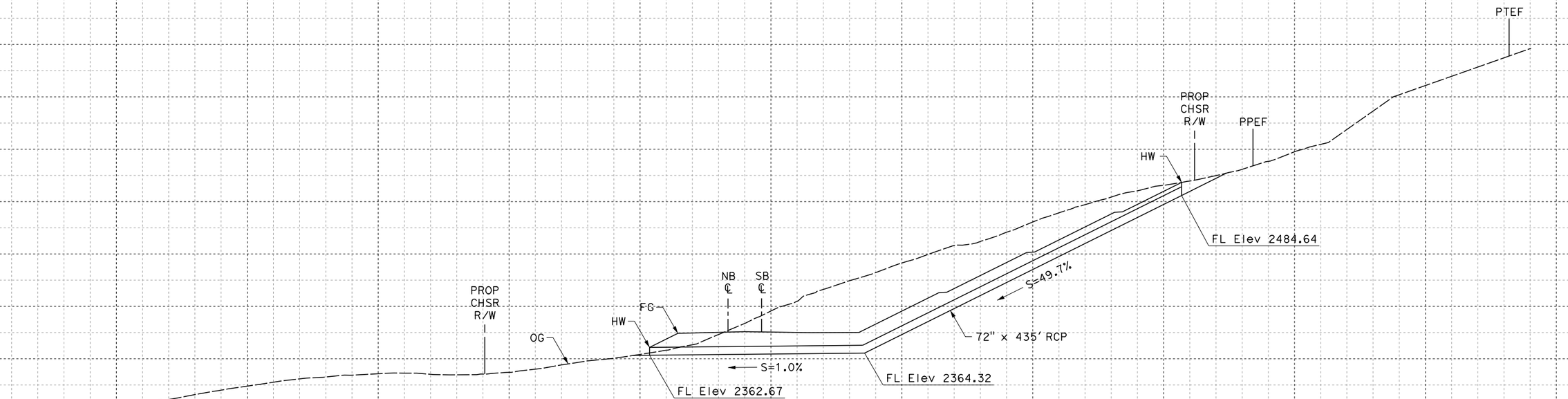
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18442+47

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1509
SCALE AS SHOWN
SHEET NO. 89



HSR SB LINE STA 18444+31

40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

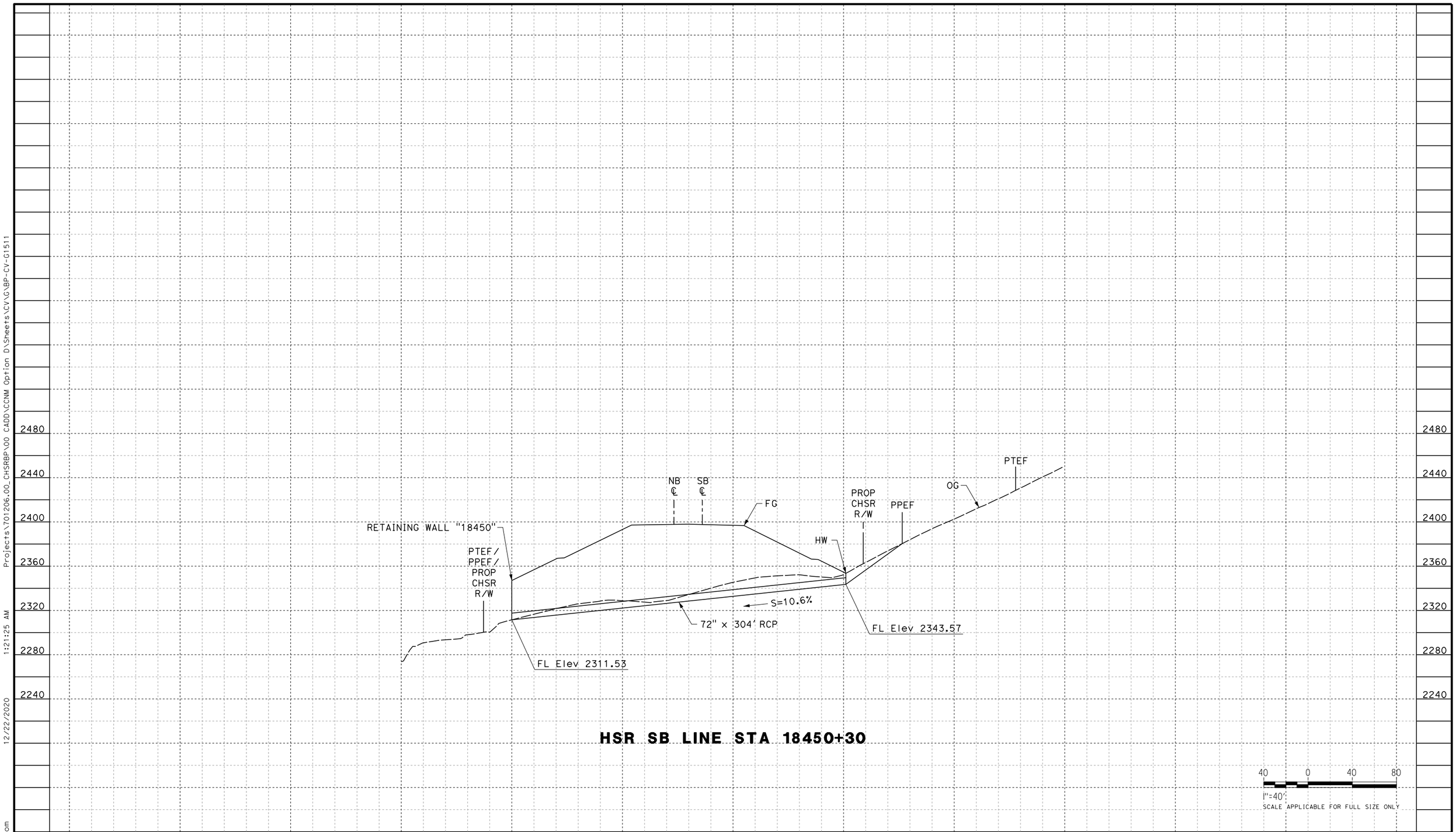
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18444+31

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1510
SCALE AS SHOWN
SHEET NO. 90



HSR SB LINE STA 18450+30

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

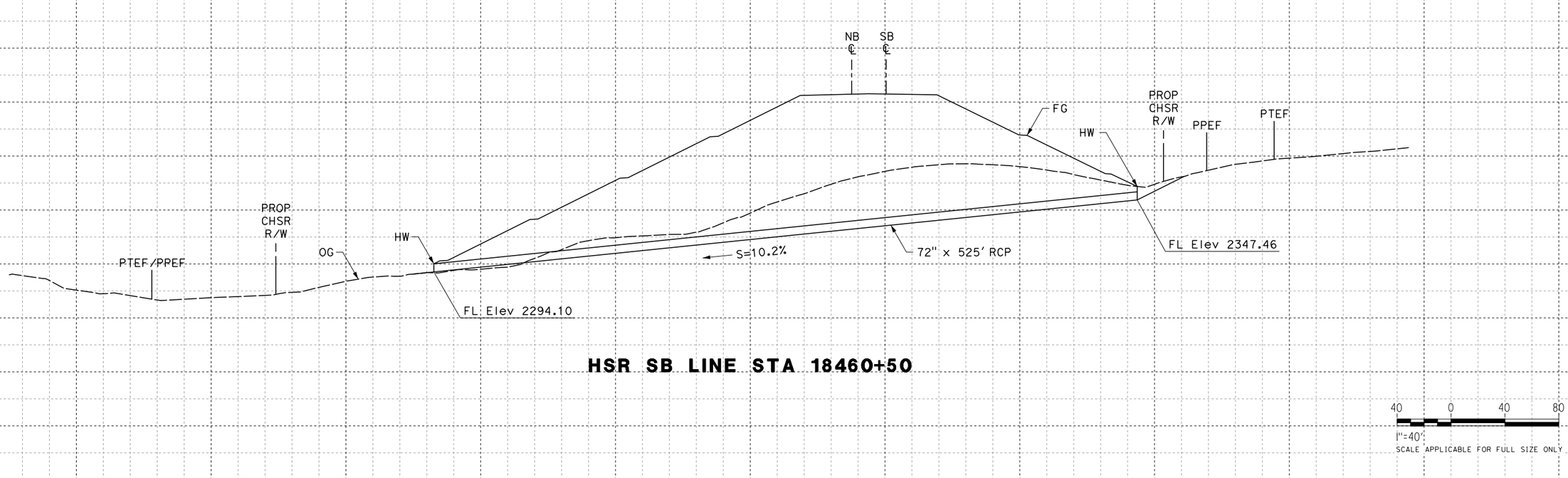
NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18450+30

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1511
SCALE AS SHOWN
SHEET NO. 91



HSR SB LINE STA 18460+50

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

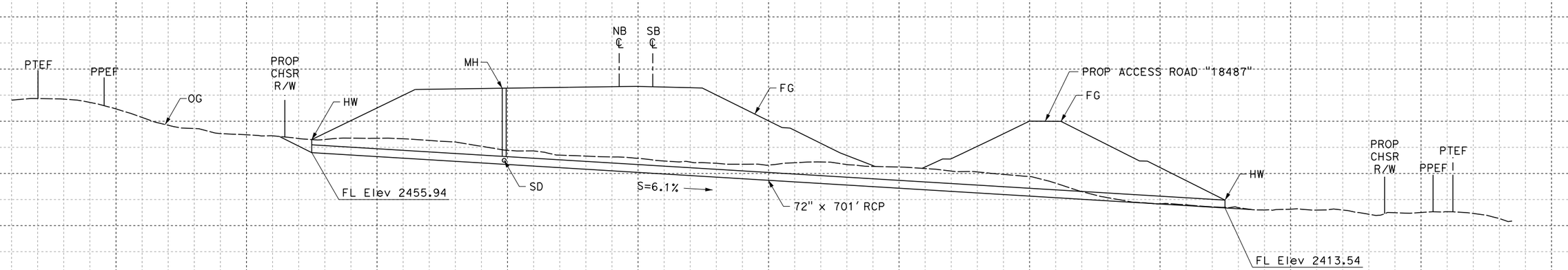
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18460+50

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1512
SCALE AS SHOWN
SHEET NO. 92



HSR SB LINE STA 18489+32

40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

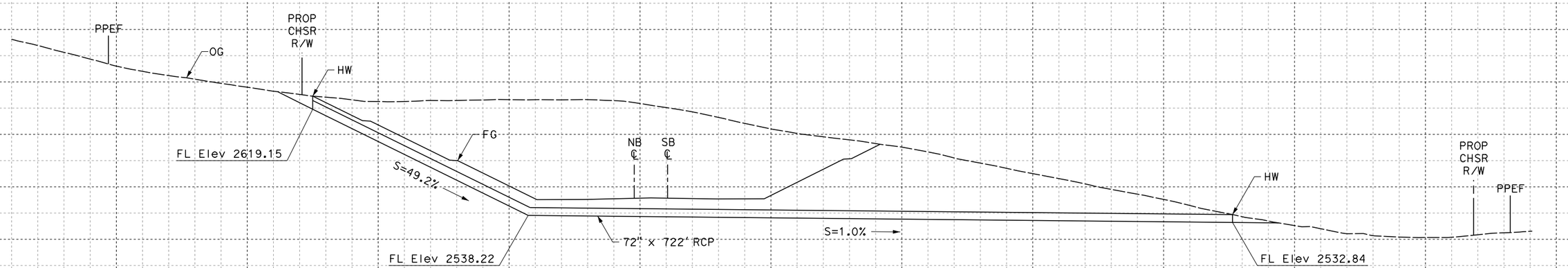
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18489+32

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1513
SCALE AS SHOWN
SHEET NO. 93



HSR SB LINE STA 18505+37

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

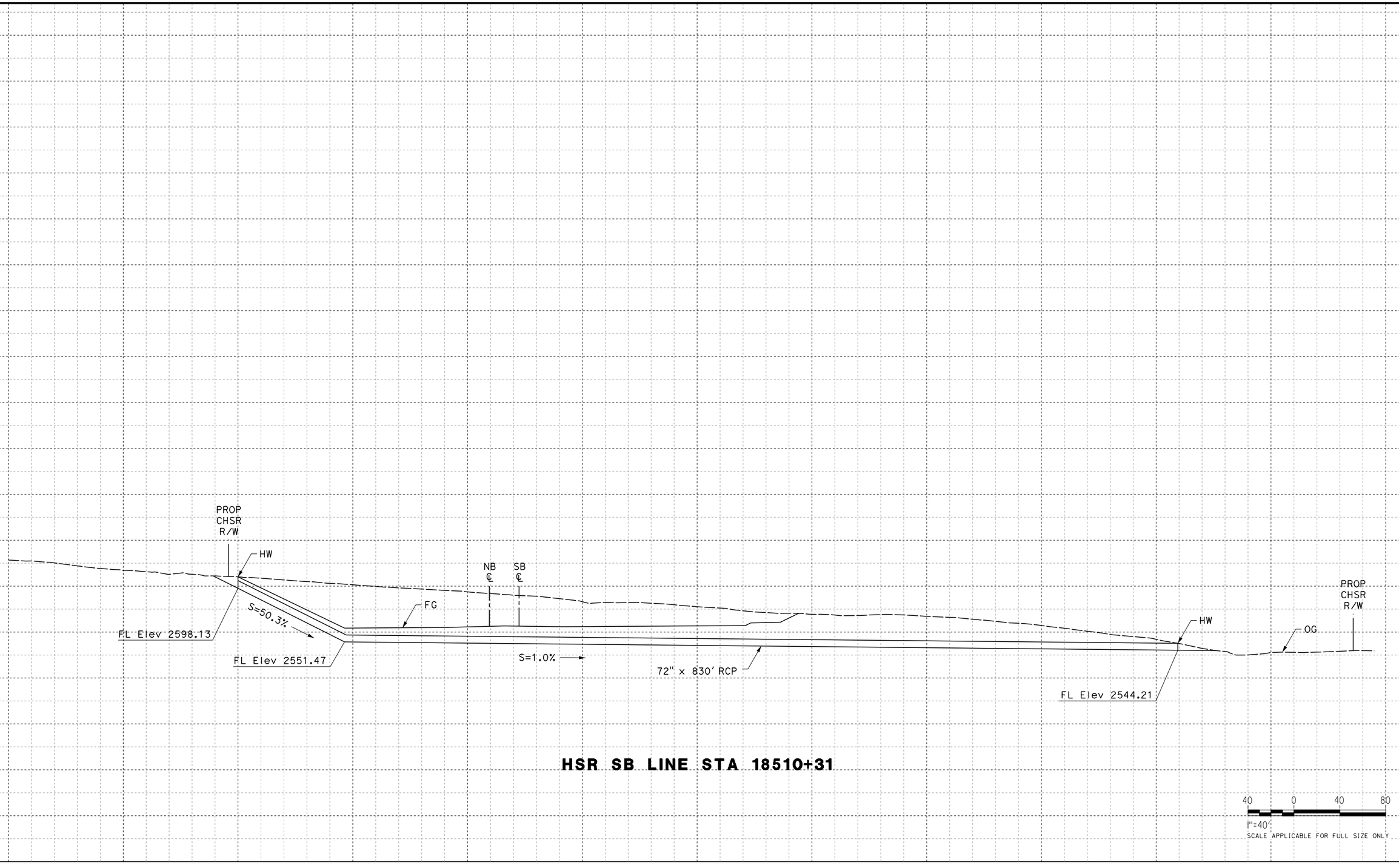
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18505+37

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1514
SCALE AS SHOWN
SHEET NO. 94



HSR SB LINE STA 18510+31

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

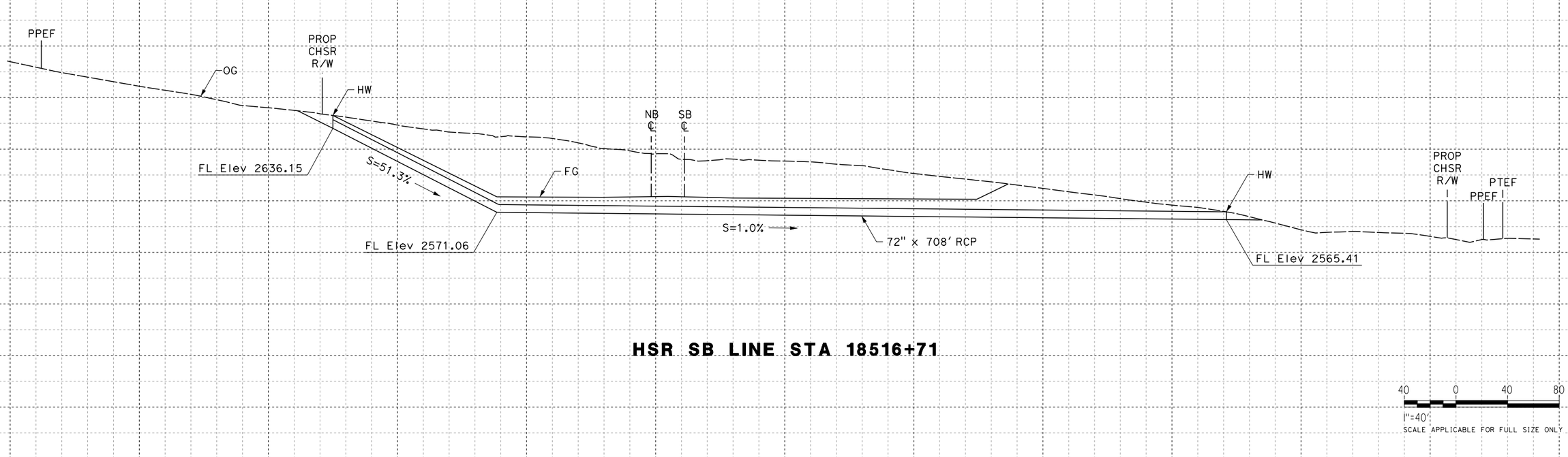
NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18510+31

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1515
SCALE AS SHOWN
SHEET NO. 95



HSR SB LINE STA 18516+71

40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

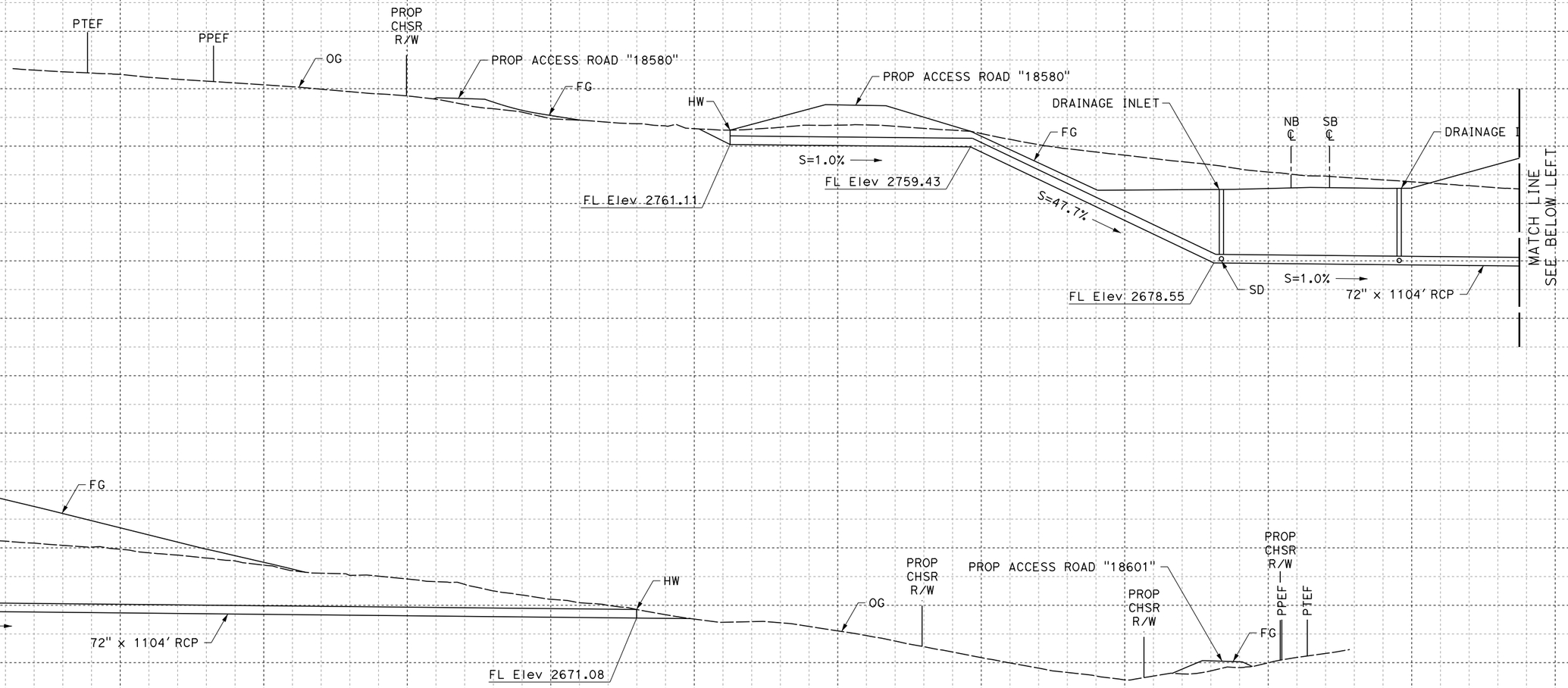
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18516+71

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1516
SCALE AS SHOWN
SHEET NO. 96



HSR SB LINE STA 18581+20

40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD
SUBMITTAL

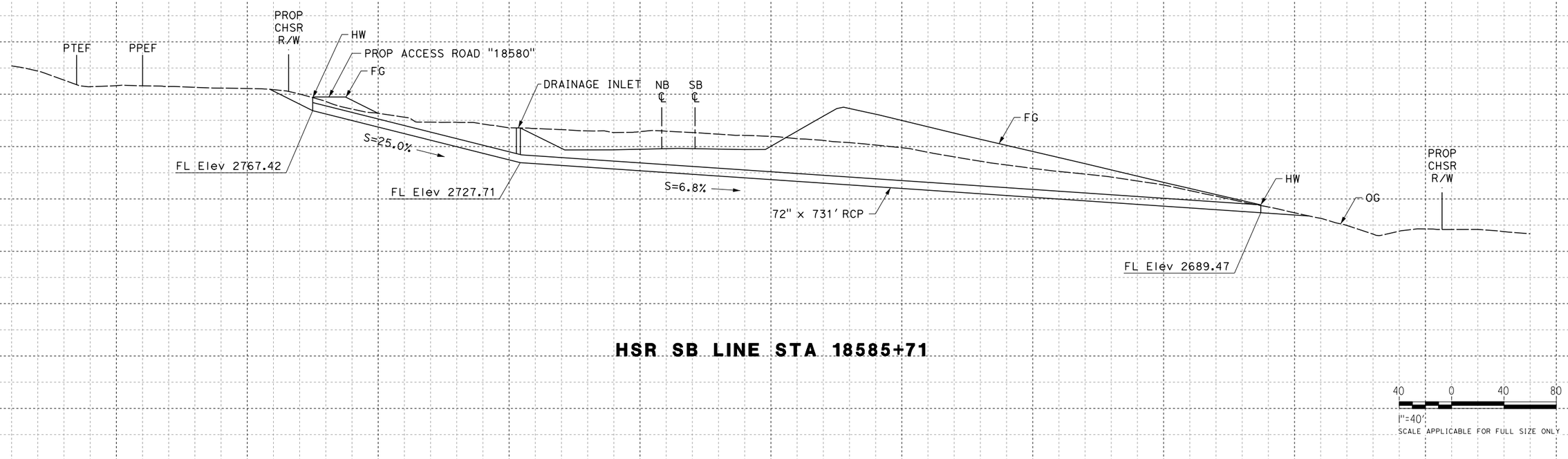
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18581+20

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1517
SCALE AS SHOWN
SHEET NO. 97



HSR SB LINE STA 18585+71

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET
PEPD SUBMITTAL

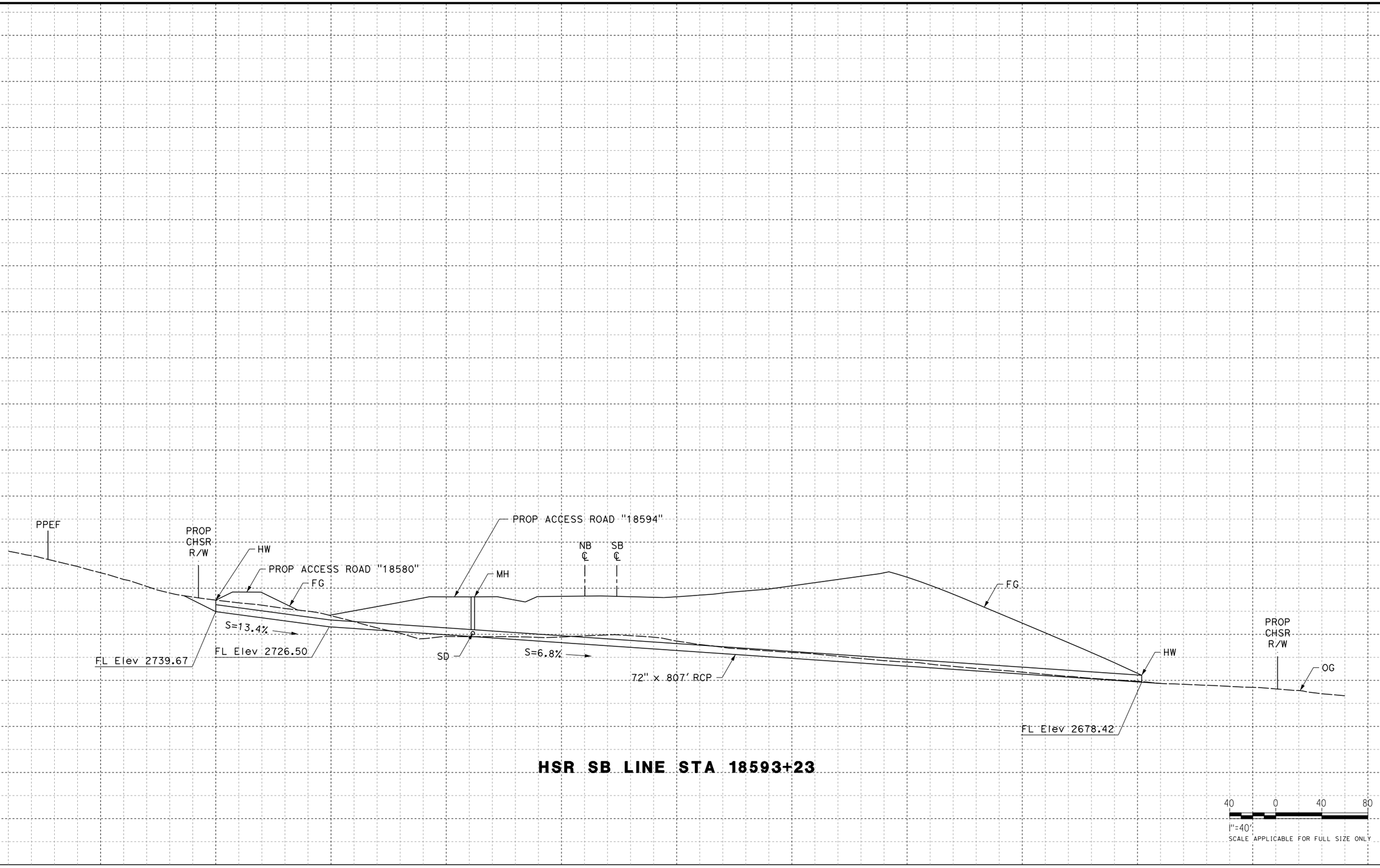
NOT FOR CONSTRUCTION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18585+71

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1518
SCALE AS SHOWN
SHEET NO. 98



HSR SB LINE STA 18593+23

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

RECORD SET PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18593+23

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1519
SCALE AS SHOWN
SHEET NO. 99