

TIS2  
TRACK INSPECTION PROGRAM

## TRACK GEOMETRY INSPECTION REPORT

TEST  
San Francisco, CA to Deerdong, CA  
RR: CALTRAIN (CALT)  
Survey Number: SOUTH  
Milepost 0 to Milepost 47  
Direction: SOUTH, Ascending Milepost



ENSCO makes no claim that the inspection system/services(s) will identify every defective condition or inspection need in the track, rail or supporting infrastructure. Use of the system/services(s) in no way constitutes certification of the customer's track or that all defective conditions in the track, rail or supporting infrastructure will be detected.

5400 Port Royal Rd  
Springfield, VA 22151  
[REDACTED]

**Exception Report**  
**Exception List Section**  
**Milepost 0 to Milepost 47**

**Page 1 of 6**  
**2021-10-29**  
**Run ID: 2021102911**

**San Francisco, CA to Deerdong, CA**

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Peak Lat/Long
0	0	Class Change	4.00		1	T		4	1	
0	0	Track Change	0.00		1	T		4	1	
0	0	Posted Speed	80.00		1	T		4	1	
0	90	Railroad	CALT		7	T		4	1	37.775790   -122.395690
0	126	Subdivision	TEST		5	T		4	1	37.775723   -122.395775
0	185	Up Milepost	0.00		6	T		4	1	37.775611   -122.395917
0	19	Posted Speed	30.00		8	T		2	1	37.775576   -122.395962
0	19	Class Change	2.00		8	T		2	1	37.775576   -122.395962
0	94	Class Change	1.00		9	T		1	1	37.775437   -122.396139
0	94	Posted Speed	15.00		9	T		1	1	37.775437   -122.396139
0	180	Track Change	0.00		10	T		1	1	37.775278   -122.396344
0	237	State Line	CA		10	T		1	1	37.775172   -122.396480
0	259	2nd Unbal Elev	4.00		10	T		1	1	37.775131   -122.396533
0	1090	Frog			10	B		1	1	37.773579   -122.398505
0	1358	Frog			9	B		1	1	37.773130   -122.399171
0	1681	Track Change	0.00		10	B		1	2	37.772520   -122.399951
0	1848	Posted Speed	10.00		14	C		1	2	37.772144   -122.400240
0	2640	Class Change	2.00		20	T		2	2	37.770284   -122.399530
0	2640	Posted Speed	20.00		20	T		2	2	37.770284   -122.399530
0	3102	Frog			28	T		2	2	37.769417   -122.398440
0	3168	Unbal Elev	2.00		30	T		2	2	37.769292   -122.398285
0	3168	Posted Speed	25.00		30	T		2	2	37.769292   -122.398285
0	3283	Road Xing Start			33	T		2	2	37.769076   -122.398013
0	3696	Unbal Elev	3.00		39	T		3	2	37.768294   -122.397044
0	3696	Class Change	3.00		39	T		3	2	37.768294   -122.397044
0	3696	Posted Speed	40.00		39	T		3	2	37.768294   -122.397044
0	3705	Frog			39	T		3	2	37.768276   -122.397022
2	4142	Up Milepost	2.00		39	T		3	2	37.767445   -122.395981
2	332	Frog			39	T		3	2	37.766805   -122.395222
2	513	Bridge Start			39	T		3	2	37.766437   -122.394801
2	1584	Posted Speed	79.00		38	E		4	2	37.763888   -122.393102
2	1584	Class Change	4.00		38	E		4	2	37.763888   -122.393102
2	1814	Tunnel Start			39	T		4	2	37.763251   -122.393096
2	3725	Tunnel End			48	T		4	2	37.758003   -122.393162
2	5120	Tunnel Start			45	C		4	2	37.753792   -122.392190
2	6254	Tunnel End			43	T		4	2	37.750705   -122.392711

Exception Report  
Exception List Section  
Milepost 0 to Milepost 47

Page 2 of 6  
2021-10-29  
Run ID: 2021102911

San Francisco, CA to Deerdong, CA

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Peak Lat/Long
2	6393	Frog			44	T		4	2	37.750966   -122.392894
3	10812	Up Milepost	3.00		48	T		4	2	37.739736   -122.394594
3	3599	Tunnel End			48	T		4	2	37.730041   -122.395938
4	5582	Up Milepost	4.00		49	C		4	2	37.725019   -122.396657
4	286	Frog			49	C		4	2	37.724275   -122.396831
4	1489	Tunnel Start			48	T		4	2	37.721194   -122.397888
4	4224	Posted Speed	65.00		46	T		4	2	37.713994   -122.400510
4	5187	Tunnel End			45	E		4	2	37.711450   -122.401419
5	5350	Up Milepost	5.00		45	C		4	2	37.711245   -122.401445
5	132	Track Change	0.00		45	E		4	4	37.710983   -122.401530
5	132	Posted Speed	70.00		45	E		4	4	37.710983   -122.401530
5	2987	Posted Speed	60.00		48	T		3	4	37.703462   -122.401912
5	2987	Class Change	3.00		48	T		3	4	37.703462   -122.401912
5	3177	Posted Speed	50.00		48	T		3	4	37.702959   -122.401913
6	5593	Up Milepost	6.00		46	T		3	4	37.696546   -122.401923
6	4752	Posted Speed	65.00		47	T		4	4	37.684875   -122.396883
6	4752	Class Change	4.00		47	T		4	4	37.684875   -122.396883
6	5215	Frog			46	B		4	4	37.683855   -122.396022
7	5491	Up Milepost	7.00		46	B		4	4	37.683261   -122.395480
7	278	Posted Speed	79.00		46	E		4	2	37.682653   -122.394952
7	278	Track Change	0.00		46	E		4	2	37.682653   -122.394952
7	2112	Posted Speed	70.00		46	B		4	2	37.678632   -122.391506
8	5441	Up Milepost	8.00		49	C		4	2	37.670353   -122.391115
8	436	Frog			48	E		4	2	37.669414   -122.391966
8	528	Posted Speed	79.00		48	T		4	2	37.669220   -122.392152
8	738	Frog			48	T		4	2	37.668778   -122.392578
8	1104	Frog			48	T		4	2	37.668010   -122.393321
8	3399	Frog			44	T		4	2	37.663184   -122.397991
9	5677	Up Milepost	9.00		44	T		4	2	37.658393   -122.402628
9	510	Road Xing Start			44	E		4	2	37.657339   -122.403691
10	5503	Up Milepost	10.00		49	C		4	2	37.646150   -122.412396
10	1474	Road Xing Start			45	C		4	2	37.642301   -122.413155
10	2798	Frog			42	T		4	2	37.638789   -122.413137
10	3410	Road Xing Start			41	T		4	2	37.637165   -122.413119
10	3696	Posted Speed	65.00		40	T		4	2	37.636408   -122.413111
11	5473	Up Milepost	11.00		40	E		4	2	37.631770   -122.412407

**Exception Report**  
**Exception List Section**  
**Milepost 0 to Milepost 47**

**Page 3 of 6**  
**2021-10-29**  
**Run ID: 2021102911**

**San Francisco, CA to Deerdong, CA**

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Peak Lat/Long
11	528	Posted Speed	79.00		42	T		4	2	37.630491 -122.411690
12	5465	Up Milepost	12.00		49	C		4	2	37.618818 -122.404269
12	4208	Road Xing Start			46	T		4	2	37.609497 -122.396604
12	4815	Frog			44	T		4	2	37.608249 -122.395330
12	5358	Frog			43	T		4	2	37.607132 -122.394191
13	5442	Up Milepost	13.00		42	T		4	2	37.606957 -122.394013
13	3696	Posted Speed	75.00		42	T		4	2	37.599361 -122.386270
14	5472	Up Milepost	14.00		40	C		4	2	37.595893 -122.382262
14	1056	Posted Speed	79.00		41	T		4	2	37.594509 -122.379209
14	1705	Frog			41	T		4	2	37.593705 -122.377298
14	2347	Frog			42	T		4	2	37.592912 -122.375407
15	5535	Up Milepost	15.00		42	T		4	2	37.588961 -122.366007
15	892	Road Xing Start			41	T		4	2	37.587858 -122.363379
15	3644	Road Xing Start			39	T		4	2	37.584457 -122.355267
15	5172	Road Xing Start			35	T		4	2	37.582564 -122.350766
16	5440	Up Milepost	16.00		33	T		4	2	37.582229 -122.349974
16	4199	Road Xing Start			39	T		4	2	37.577028 -122.337601
16	5172	Road Xing Start			38	T		4	2	37.575822 -122.334735
17	5456	Up Milepost	17.00		37	T		4	2	37.575469 -122.333896
17	589	Road Xing Start			37	C		4	2	37.574701 -122.332189
17	3960	Road Xing Start			42	T		4	2	37.568431 -122.324255
17	4358	Road Xing Start			42	T		4	2	37.567634 -122.323386
17	4872	Road Xing Start			41	T		4	2	37.566605 -122.322264
17	5120	Road Xing Start			41	T		4	2	37.566109 -122.321722
17	5511	Road Xing Start			40	T		4	2	37.565330 -122.320863
17	5836	Road Xing Start			41	T		4	2	37.564677 -122.320158
17	6098	Frog			42	T		4	2	37.564151 -122.319586
17	6820	Frog			44	T		4	2	37.562707 -122.318010
17	7082	Road Xing Start			45	T		4	2	37.562181 -122.317435
18	10844	Up Milepost	18.00		45	E		4	2	37.554180 -122.310098
19	45	Up Milepost	19.00		45	E		4	2	37.554065 -122.310043
20	5514	Up Milepost	20.00		45	T		4	2	37.541452 -122.300891
21	5500	Up Milepost	21.00		48	T		4	2	37.530604 -122.288765
21	3307	Frog			45	T		4	2	37.524781 -122.280544
21	3674	Frog			45	T		4	2	37.524078 -122.279698
22	5449	Up Milepost	22.00		48	T		4	2	37.520641 -122.275658

Exception Report  
Exception List Section  
Milepost 0 to Milepost 47

Page 4 of 6  
2021-10-29  
Run ID: 2021102911

San Francisco, CA to Deerdong, CA

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Peak Lat/Long
23	5505	Up Milepost	23.00		49	T		4	2	37.510236   -122.262822
24	5420	Up Milepost	24.00		46	T		4	2	37.499622   -122.250652
24	4724	Road Xing Start			49	T		4	2	37.490845   -122.239482
25	5485	Up Milepost	25.00		48	T		4	2	37.489589   -122.237496
25	1047	Road Xing Start			48	T		4	2	37.487867   -122.234763
25	1845	Road Xing Start			46	T		4	2	37.486553   -122.232680
25	4240	Road Xing Start			30	T		4	2	37.482617   -122.226425
25	4624	Road Xing Start			30	T		4	2	37.481985   -122.225424
26	5468	Up Milepost	26.00		32	T		4	2	37.480594   -122.223221
26	117	Road Xing Start			32	T		4	2	37.480400   -122.222916
26	2085	Posted Speed	30.00		31	E		2	6	37.477128   -122.217820
26	2085	Track Change	0.00		31	E		2	6	37.477128   -122.217820
26	2085	Class Change	2.00		31	E		2	6	37.477128   -122.217820
26	2226	Class Change	3.00		31	T		3	6	37.476896   -122.217452
26	2226	Posted Speed	60.00		31	T		3	6	37.476896   -122.217452
26	2561	Posted Speed	30.00		32	T		3	6	37.476346   -122.216580
26	4147	Class Change	2.00		30	T		2	6	37.473736   -122.212439
27	5479	Up Milepost	27.00		29	T		2	6	37.471545   -122.208960
27	858	Frog			31	B		2	6	37.470158   -122.206700
27	983	Posted Speed	79.00		30	E		4	2	37.469959   -122.206367
27	983	Track Change	0.00		30	E		4	2	37.469959   -122.206367
27	983	Class Change	4.00		30	E		4	2	37.469959   -122.206367
27	1533	Frog			30	T		4	2	37.469053   -122.204932
27	4127	Road Xing Start			39	T		4	2	37.464787   -122.198166
28	5454	Up Milepost	28.00		38	T		4	2	37.462595   -122.194708
28	313	Road Xing Start			39	T		4	2	37.462080   -122.193892
28	2038	Road Xing Start			43	T		4	2	37.459238   -122.189397
28	3164	Road Xing Start			41	T		4	2	37.457383   -122.186460
28	4279	Road Xing Start			41	T		4	2	37.455543   -122.183556
28	5321	Road Xing Start			43	T		4	2	37.453826   -122.180842
29	5468	Up Milepost	29.00		44	T		4	2	37.453582   -122.180457
29	818	Frog			45	T		4	2	37.452233   -122.178327
29	1574	Frog			46	T		4	2	37.450990   -122.176357
29	3092	Frog			45	T		4	2	37.448487   -122.172401
29	4224	Road Xing Start			43	B		4	2	37.446624   -122.169460
30	5475	Up Milepost	30.00		44	C		4	2	37.444405   -122.166362

**Exception Report**  
**Exception List Section**  
**Milepost 0 to Milepost 47**

**Page 5 of 6**  
**2021-10-29**  
**Run ID: 2021102911**

**San Francisco, CA to Deerdong, CA**

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Peak Lat/Long
31	5480	Up Milepost	31.00		46	T		4	2	37.435568   -122.151901
31	38	Road Xing Start			46	T		4	2	37.435505   -122.151801
32	5472	Up Milepost	32.00		45	T		4	2	37.426555   -122.137640
32	1020	Frog			45	T		4	2	37.424864   -122.134992
32	5442	Road Xing Start			46	T		4	2	37.417619   -122.123434
33	5518	Up Milepost	33.00		46	T		4	2	37.417492   -122.123233
33	1715	Road Xing Start			44	T		4	2	37.414672   -122.118764
33	3644	Frog			44	T		4	2	37.411495   -122.113741
33	4417	Frog			46	T		4	2	37.410221   -122.111729
34	5410	Up Milepost	34.00		46	T		4	2	37.408576   -122.109143
34	4094	Road Xing Start			45	T		4	2	37.402980   -122.097552
35	5477	Up Milepost	35.00		46	T		4	2	37.401349   -122.093434
35	5118	Road Xing Start			45	T		4	2	37.395306   -122.078206
36	5475	Up Milepost	36.00		44	T		4	2	37.394885   -122.077140
37	5466	Up Milepost	37.00		45	T		4	2	37.388502   -122.060834
37	5215	Road Xing Start			45	T		4	2	37.383255   -122.044807
38	5464	Up Milepost	38.00		45	C		4	2	37.383000   -122.044040
38	929	Frog			44	T		4	2	37.382066   -122.041184
38	1598	Frog			44	T		4	2	37.381387   -122.039132
39	5460	Up Milepost	39.00		41	T		4	2	37.377466   -122.027267
39	2197	Frog			42	C		4	2	37.375254   -122.020514
39	2970	Track Change	0.00		43	B		4	4	37.374446   -122.018154
39	2970	Posted Speed	70.00		43	B		4	4	37.374446   -122.018154
39	3598	Class Change	3.00		43	C		3	4	37.373898   -122.016185
39	3598	Posted Speed	60.00		43	C		3	4	37.373898   -122.016185
39	3748	Posted Speed	40.00		43	E		3	4	37.373791   -122.015704
39	5245	Frog			42	T		3	4	37.372795   -122.010886
40	0	Class Change	4.00		42	T		4	4	37.372644   -122.010140
40	5476	Up Milepost	40.00		42	T		4	4	37.372644   -122.010140
40	0	Posted Speed	70.00		42	T		4	4	37.372644   -122.010140
40	4771	Frog			42	T		4	4	37.370398   -121.994607
41	5512	Up Milepost	41.00		42	T		4	4	37.370366   -121.992142
41	3072	Frog			39	E		4	4	37.370479   -121.981942
41	3277	Track Change	0.00		39	E		4	2	37.370499   -121.981262
41	3277	Posted Speed	79.00		39	E		4	2	37.370499   -121.981262
42	5437	Up Milepost	42.00		39	C		4	2	37.369712   -121.974194

Exception Report  
Exception List Section  
Milepost 0 to Milepost 47

Page 6 of 6  
2021-10-29  
Run ID: 2021102911

San Francisco, CA to Deerdong, CA

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Peak Lat/Long
43	5472	Up Milepost	43.00		37	T		4	2	37.362903 -121.958153
44	2118	Up Milepost	44.00		33	T		4	2	37.360216 -121.951970
44	599	Track Change	0.00		32	T		4	3	37.359456 -121.950224
44	3456	Frog			33	T		4	3	37.355826 -121.941897
45	5556	Up Milepost	45.00		33	T		4	3	37.353066 -121.935838
45	863	Frog			34	T		4	3	37.351845 -121.933419
45	1079	Frog			36	T		4	3	37.351539 -121.932811
45	1293	Frog			37	T		4	3	37.351236 -121.932210
45	4239	Up Milepost	45.00		36	T		4	3	37.347055 -121.923936
46	1226	Up Milepost	46.00		34	T		4	3	37.345325 -121.920490
46	1584	Posted Speed	40.00		36	T		3	3	37.343067 -121.916047
46	1584	Class Change	3.00		36	T		3	3	37.343067 -121.916047
46	2045	Frog			35	T		3	3	37.342415 -121.914755
46	2195	Frog			34	T		3	3	37.342203 -121.914333
46	2447	Frog			34	T		3	3	37.341847 -121.913627
46	4660	Frog			18	E		3	3	37.338227 -121.908152
47	5529	Up Milepost	47.00		14	T		3	3	37.336290 -121.906635
47	379	Frog			12	T		3	3	37.335532 -121.905807
47	528	Class Change	1.00		11	T		1	3	37.335232 -121.905481
47	528	Posted Speed	15.00		11	T		1	3	37.335232 -121.905481
47	1716	Frog			11	E		1	3	37.332617 -121.903404
47	1805	Frog			10	E		1	3	37.332383 -121.903357
47	1912	Track Change	0.00		9	E		1	2	37.332100 -121.903313
47	2073	Frog			12	T		1	2	37.331677 -121.903278
47	2214	R Face Angle* (136RE)	20.60	28	11	T	1	1	2	
47	2232	Frog			11	C		1	2	37.331258 -121.903232
47	2440	Class Change	4.00		10	B		4	4	37.330716 -121.903119
47	2440	Track Change	0.00		10	B		4	4	37.330716 -121.903119
47	2440	Posted Speed	65.00		10	B		4	4	37.330716 -121.903119
47	2739	End of Survey	0.00		0	T		4	4	

Notes:

\* Federal Track Safety Standard Advisory  
Cant Exceptions are in degrees  
The following fields are irrelevant for Cant Exceptions: LC, PC

**Exception Report**  
**Curve Analysis Section**  
**Milepost 0 to Milepost 47**

San Francisco, CA to Deerdong, CA

Elevation plus(+) = L Rail High, minus(-) = R Rail High

Curvature plus(+) = Curve to Right, minus(-) = Curve to Left

Track	Starting		Ending		Len	Spd	Average		Speed		Limiting Point			Limiting Speed at									
	MP	FT	MP	FT			Deg/M	inches	Post	Lmt	MP	FT	Deg/M	inches	FT	Grp	3"	4"	5"	6"	7"	8"	9"
1	0	1048	0	1289	242	10	4/58	0.52	15	32	0	1191	4/58	0.52		32	36	40	43	47	49	52	
1	0	1289	0	1517	229	9	-4/55	-0.26	15	30	0	1399	-5/01	-0.16		30	34	38	42	45	48	51	
2	0	1561	0	2620	1060	22	-10/27	-3.04	10	29	0	1814	-10/31	-3.01		29	31	33	35	37	39	40	
2	2	679	2	1723	1045	38	5/33	3.96	79	42	2	1345	5/34	3.85		42	45	48	50	53	55	57	
2	2	3825	2	5329	1505	47	0/46	1.07	79	83	2	5002	0/49	0.94		83	93	102	110	118	125	132	
2	3	5240	4	857	1201	49	0/55	2.17	79	87	4	60	0/57	2.15		87	96	103	110	117	123	129	
2	4	4869	4	5223	355	45	-0/55	-1.19	65	79	4	5050	-0/57	-1.18		79	88	96	103	110	117	123	
4	4	5223	5	133	262	45	1/27	-0.02	70	51	4	5323	1/33	-0.13	50	51	60	67	73	79	85	90	
4	5	133	5	1051	919	47	-1/57	-1.32	70	56	5	701	-1/58	-1.28	649 -1	56	62	67	73	77	82	86	
4	5	2179	5	2371	193	48	-0/18	-0.56	70	122	5	2277	-0/19	-0.54		122	140	155	168	181	192	203	
4	5	2523	5	2723	201	48	0/16	0.39	70	128	5	2639	0/18	0.40		128	145	160	175	188	200	212	
4	6	237	6	4002	3766	49	-0/52	-2.09	50	86	6	2327	-0/55	-1.90		86	95	103	110	117	123	129	
4	6	5122	6	5476	355	46	-1/18	-0.58	65	61	6	5275	-1/19	-0.41	59 -1	61	69	77	83	90	95	101	
2	6	5476	7	328	345	46	1/28	0.06	79	52	7	110	1/36	-0.01	55	52	60	67	73	79	84	90	
2	7	328	7	713	386	46	-0/21	-0.65	79	116	7	384	-0/22	-0.59		116	133	147	160	171	182	192	
2	7	907	7	1322	416	45	0/24	0.72	79	105	7	1012	0/28	0.61		105	118	131	142	152	162	171	
2	7	2088	8	462	3817	49	2/05	5.70	70	75	7	3895	2/09	5.47		75	79	83	87	91	94	98	
2	9	98	9	562	465	44	0/31	1.66	79	108	9	317	0/36	1.87		108	118	128	137	145	153	161	
2	9	708	9	1215	508	45	-0/30	-1.67	79	111	9	1085	-0/34	-1.96		111	122	132	141	150	158	166	
2	9	1955	9	2871	917	44	-0/59	-3.26	79	93	9	2301	-1/01	-3.35		93	101	108	114	120	125	131	
2	9	3015	9	3469	455	46	0/33	1.55	79	104	9	3253	0/39	1.98		104	114	123	131	139	147	154	
2	9	3761	10	1871	3615	49	-0/56	-2.49	79	86	9	4990	-0/59	-2.23		86	95	102	109	115	121	127	
2	10	4287	11	341	1529	39	-2/12	-5.66	65	74	10	4910	-2/16	-5.74		74	78	82	86	90	93	96	
2	11	3330	11	4398	1069	51	-0/37	-1.15	79	86	11	3975	-0/48	-1.22		86	97	105	114	121	128	135	
2	11	4730	11	5095	366	50	-0/24	-0.33	79	104	11	5049	-0/25	-0.23		104	120	133	146	157	167	177	
2	11	5206	12	107	368	50	0/24	0.42	79	103	11	5406	0/27	0.39		103	117	129	141	152	161	171	
2	12	2501	12	3549	1049	47	-0/53	-2.48	79	90	12	3300	-0/55	-2.25		90	98	106	113	120	126	132	
2	12	3957	12	4177	221	47	-0/17	-0.16	79	116	12	4050	-0/19	-0.09		116	135	151	165	178	190	201	
2	13	3806	13	4050	245	42	0/18	0.75	75	122	13	3907	0/21	0.65		122	138	152	165	177	188	198	
2	13	4362	14	669	1781	41	-1/37	-5.03	75	83	13	4936	-1/39	-5.02		83	88	93	97	102	106	110	
2	17	72	17	2502	2431	39	0/55	2.71	79	86	17	742	1/01	2.36		86	94	101	108	114	120	126	



**Exception Report**  
**Curve Analysis Section**  
**Milepost 0 to Milepost 47**

Page 2 of 4  
 2021-10-29  
 Run ID: 2021102911

San Francisco, CA to Deerdong, CA

Elevation plus(+) = L Rail High, minus(-) = R Rail High

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Track					Average								Limiting Point									
	Starting		Ending		Len	Spd	Curve Elev		Speed		MP	FT	Curve Elev		Total	Limiting Speed at						
	MP	FT	MP	FT			Deg/M	inches	Post	Lmt			Deg/M	inches		FT	Grp	3"	4"	5"	6"	7"
2	17	3246	17	3643	398	42	0/45	0.43	79	79	17	3407	0/45	0.33		79	90	100	109	117	125	132
2	17	3643	17	3911	269	42	-0/33	-0.73	79	93	17	3742	-0/39	-1.04		93	104	114	123	132	140	147
2	17	9025	19	11	1878	46	1/29	4.91	79	85	17	9658	1/33	4.94		85	91	95	100	105	109	113
2	19	614	19	2498	1885	44	-0/45	-1.82	79	93	19	1140	-0/46	-1.69		93	103	111	119	127	134	141
2	19	3358	19	3852	495	43	0/21	0.31	79	108	19	3746	0/24	0.30		108	124	138	150	161	172	182
2	19	4291	19	4791	501	45	-0/23	-0.56	79	107	19	4598	-0/26	-0.60		107	122	135	146	157	167	177
2	20	242	20	1562	1321	44	-0/35	-1.09	79	94	20	585	-0/40	-1.23		94	105	114	123	132	139	147
2	20	1562	20	2261	700	46	0/33	1.01	79	92	20	1836	0/44	1.37		92	102	111	119	127	134	141
2	20	2444	20	3719	1276	51	-0/54	-2.44	79	91	20	2936	-0/55	-2.48		91	100	107	114	121	127	133
2	20	4237	20	5050	814	51	-0/25	-0.34	79	97	20	4823	-0/28	-0.21		97	112	125	136	147	156	166
2	21	2129	21	2937	809	42	0/54	2.53	79	91	21	2368	0/57	2.49		91	99	106	113	119	126	131
2	21	3852	21	4229	378	45	0/38	0.51	79	84	21	4115	0/43	0.62		84	95	105	114	122	130	137
2	21	4460	21	4843	384	47	-0/33	-0.66	79	91	21	4596	-0/39	-0.78		91	103	113	122	131	139	147
2	22	194	22	589	396	48	-0/35	-0.72	79	90	22	353	-0/39	-0.77		90	102	113	122	131	139	147
2	22	783	22	1182	400	47	0/35	0.84	79	92	22	1078	0/39	0.90		92	103	113	122	131	139	146
2	22	1417	22	2097	681	47	-0/37	-1.09	79	91	22	1599	-0/43	-1.25		91	102	111	120	128	135	143
2	22	2725	22	3654	930	50	0/33	0.94	79	90	22	2934	0/40	0.79		90	101	111	120	129	137	144
2	22	4639	22	4905	267	50	0/32	0.62	79	86	22	4759	0/43	0.76		86	97	107	116	124	132	139
2	22	5110	22	5408	299	50	-0/30	-0.58	79	89	22	5223	-0/37	-0.58		89	102	112	122	131	139	147
2	23	281	23	438	158	48	0/15	0.75	79	143	23	367	0/15	0.76		143	162	178	193	207	219	232
2	24	2331	24	4048	1718	49	-0/32	-1.26	79	99	24	2631	-0/34	-1.00		99	112	123	132	142	150	158
2	26	1585	26	1830	246	31	2/55	0.26	79	39	26	1719	3/00	0.13	27 -1	39	44	49	54	58	62	66
6	26	1830	26	2095	266	31	-2/31	-0.38	30	41	26	1940	-2/39	-0.16	38	41	47	53	58	62	66	70
6	27	571	27	831	261	30	-2/29	-0.59	30	44	27	712	-2/36	-0.51		44	50	55	60	64	68	72
2	27	831	27	1060	230	30	2/53	0.77	79	42	27	928	2/57	0.57		42	47	52	56	60	64	68
2	29	3997	29	4617	621	44	1/06	2.31	79	82	29	4308	1/15	2.81		82	88	94	100	106	111	116
2	29	5007	30	230	700	44	-0/58	-3.12	79	91	29	5300	-1/02	-3.07		91	99	105	112	118	123	129
2	30	1249	30	1911	663	43	-0/51	-2.29	79	91	30	1464	-0/53	-2.17		91	99	107	114	121	128	134
2	30	2334	30	3018	685	45	0/51	2.52	79	94	30	2567	0/53	2.45		94	102	109	116	123	130	136
2	31	4970	31	5345	376	46	0/25	0.65	79	103	31	5158	0/28	0.58		103	117	129	140	150	160	169
2	32	109	32	499	391	45	-0/21	-0.55	79	115	32	230	-0/22	-0.53		115	132	146	159	170	181	192

**Exception Report**  
**Curve Analysis Section**  
**Milepost 0 to Milepost 47**

Page 3 of 4  
 2021-10-29  
 Run ID: 2021102911

San Francisco, CA to Deerdong, CA

Elevation plus(+) = L Rail High, minus(-) = R Rail High

Curvature plus(+) = Curve to Right, minus(-) = Curve to Left

Track	Starting		Ending		Len	Spd	Average		Speed		Limiting Point		Total FT Grp	Limiting Speed at								
	MP	FT	MP	FT			Deg/M	inches	Post	Lmt	MP	FT		Deg/M	inches	3"	4"	5"	6"	7"	8"	9"
2	32	3372	32	3812	441	46	-0/16	-0.50	79	130	32	3703	-0/16	-0.48		130	151	167	182	195	208	220
2	32	4005	32	4387	383	46	0/22	0.56	79	102	32	4125	0/27	0.35		102	116	129	140	151	161	170
2	34	994	34	2334	1341	46	-1/00	-2.07	79	82	34	2010	-1/01	-1.88		82	91	98	105	112	118	123
2	36	2569	36	3007	439	37	0/21	0.64	79	117	36	2946	0/23	0.72		117	132	145	157	168	179	189
2	36	3163	36	3582	420	38	-0/19	-0.59	79	114	36	3409	-0/22	-0.53		114	131	144	157	168	179	189
2	36	4415	36	5209	795	44	-0/33	-2.21	79	108	36	4731	-0/41	-2.71		108	118	126	134	142	149	156
2	37	1230	37	1514	285	47	-0/15	-0.59	79	138	37	1379	-0/15	-0.54		138	158	175	190	204	217	229
2	37	1929	37	2153	225	47	0/17	0.62	79	133	37	2071	0/17	0.63		133	151	167	181	194	206	218
2	37	5357	38	111	220	46	-0/17	0.26	79	114	38	15	-0/18	0.20		114	134	151	166	180	193	205
2	38	301	38	528	228	45	0/19	0.44	79	118	38	399	0/21	0.41		118	134	149	162	174	185	196
2	39	1034	39	1320	287	42	0/16	0.71	79	135	39	1158	0/17	0.64		135	151	167	181	194	206	218
2	39	2002	39	2322	321	43	1/32	0.24	79	52	39	2144	1/43	0.20	59 -1	52	59	66	72	77	83	87
2	39	2322	39	2624	303	43	-1/23	-0.42	79	58	39	2466	-1/27	-0.40	63 -1	58	66	73	79	85	91	96
4	39	2871	39	3931	1061	43	-0/54	-2.07	40	87	39	3318	-0/56	-1.99		87	95	103	110	117	123	129
4	40	2452	40	3716	1265	41	-1/21	-4.44	70	87	40	3091	-1/24	-4.41		87	93	98	103	108	113	117
4	40	4831	40	5413	583	42	-0/37	-0.78	70	87	40	5001	-0/42	-0.76		87	99	108	117	126	134	141
4	41	234	41	557	324	42	-0/15	-0.09	70	127	41	475	-0/15	-0.09		127	150	167	183	197	211	223
4	41	728	41	972	245	42	0/16	0.13	70	122	41	899	0/18	0.12		122	140	156	171	184	197	208
4	41	2740	41	3075	336	40	-1/25	-0.47	70	57	41	2893	-1/28	-0.39	61 -1	57	65	72	79	84	90	95
2	41	3075	41	3560	486	40	0/40	0.47	79	53	41	3206	1/38	0.28	152	53	61	68	74	80	85	90
2	41	3636	42	952	2755	39	1/06	3.29	79	85	41	4732	1/13	3.21		85	92	98	104	109	115	120
3	44	4358	44	4567	210	34	0/17	0.56	79	126	44	4476	0/19	0.53		126	142	157	171	183	195	206
3	44	4732	44	5407	676	34	0/29	1.11	79	91	44	4883	0/42	1.09		91	101	111	119	128	135	142
3	46	2549	46	3098	550	33	-3/48	-1.99	40	43	46	2817	-3/48	-1.98		43	47	51	55	58	61	64
3	46	3098	46	3995	898	32	3/49	2.00	40	43	46	3683	3/49	1.87		43	47	51	54	58	61	64
3	46	4018	46	4767	750	19	4/20	2.60	40	43	46	4472	4/21	2.60		43	47	50	53	56	59	62
3	46	4767	46	5430	664	17	-4/19	-2.68	40	43	46	5045	-4/16	-2.57		43	47	50	53	57	59	62
3	47	902	47	1727	826	10	3/31	1.66	15	42	47	1600	3/44	1.68		42	47	51	54	58	61	64
3	47	1727	47	1808	82	10	-1/27	0.26	15	49	47	1763	-1/32	0.37		49	58	66	72	78	84	89
2	47	1808	47	2019	212	9	4/55	0.41	15	30	47	1892	4/59	0.17		30	35	38	42	45	48	51
2	47	2094	47	2373	280	11	-4/49	-0.83	15	34	47	2231	-4/51	-0.85		34	38	41	45	48	51	54

Exception Report  
 Curve Analysis Section  
 Milepost 0 to Milepost 47

Page 4 of 4  
 2021-10-29  
 Run ID: 2021102911

San Francisco, CA to Deerdong, CA

Elevation plus(+) = L Rail High, minus(-) = R Rail High

Curvature plus(+) = Curve to Right, minus(-) = Curve to Left

Track	Starting		Ending		Len	Spd	Average		Speed		Limiting Point			Limiting Speed at									
	MP	FT	MP	FT			Deg/M	inches	Post	Lmt	MP	FT	Deg/M	inches	FT	Grp	3"	4"	5"	6"	7"	8"	9"
																	3"	4"	5"	6"	7"	8"	9"
4	47	2373	47	2647	275	9	4/22	-0.05	65	31	47	2522	4/25	-0.04	18	-1	31	36	40	44	47	51	54

Notes:

**Exception Report  
Exception Summary Section  
Milepost 0 to Milepost 47**

Page 1 of 4  
2021-10-29  
Run ID: 2021102911

**San Francisco, CA to Deerdong, CA**

MP	FT	Wide Gage			Tight Gage			Alignment			Crosslevel			Rockoff			Profile			Run Off			Warp			Twist-31			Lmt Spd		
		Tot	Exc	2 Cl	Tot	Exc	FT	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Lim	Pstd
		Exc	FT	Drop	Exc	FT		Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	Cls	Cls
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	1	
0	185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	1		
0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1		
0	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1		
0	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1		
0	1681	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2		
0	2640	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2		
0	3696	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	2		
2	4142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	2		
2	1584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
3	10812	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
4	5582	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
5	5350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
5	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
5	2987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4		
6	5593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4		
6	4752	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
7	5491	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
7	278	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
8	5441	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
9	5677	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
10	5503	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
11	5473	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		

**Exception Report  
Exception Summary Section  
Milepost 0 to Milepost 47**

Page 2 of 4  
2021-10-29  
Run ID: 2021102911

**San Francisco, CA to Deerdong, CA**

MP	FT	Wide Gage			Tight Gage			Alignment			Crosslevel			Rockoff			Profile			Run Off			Warp			Twist-31			Lmt Spd		
		Tot	Exc	2 Cl	Tot	Exc	FT	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Lim	Pstd
		Exc	FT	Drop	Exc	FT		Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	Cls	Cls
12	5465	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
13	5442	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
14	5472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
15	5535	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
16	5440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
17	5456	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
18	10844	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
19	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
20	5514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
21	5500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
22	5449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
23	5505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
24	5420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
25	5485	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
26	5468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
26	2085	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	6	
26	2085	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	6	
26	2226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	6	
26	4147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	6	
27	5479	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	6	
27	983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
27	983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
28	5454	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
29	5468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	

**Exception Report**  
**Exception Summary Section**  
**Milepost 0 to Milepost 47**

Page 3 of 4  
 2021-10-29  
 Run ID: 2021102911

**San Francisco, CA to Deerdong, CA**

MP	FT	Wide Gage			Tight Gage			Alignment			Crosslevel			Rockoff			Profile			Run Off			Warp			Twist-31			Lmt Spd		
		Tot	Exc	2 Cl	Tot	Exc	FT	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Lim	Pstd
		Exc	FT	Drop	Exc	FT		Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	Cls	Cls
30	5475	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
31	5480	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	
32	5472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
33	5518	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
34	5410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
35	5477	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
36	5475	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
37	5466	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
38	5464	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
39	5460	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
39	2970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
39	3598	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4		
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
40	5476	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
41	5512	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
41	3277	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
42	5437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
43	5472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
44	2118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2		
44	599	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	3		
45	5556	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	3		
45	4239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	3		
46	1226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	3		
46	1584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3		

**Exception Report  
Exception Summary Section  
Milepost 0 to Milepost 47**

**Page 4 of 4  
2021-10-29  
Run ID: 2021102911**

**San Francisco, CA to Deerdong, CA**

MP	FT	Wide Gage			Tight Gage			Alignment			Crosslevel			Rockoff			Profile			Run Off			Warp			Twist-31			Lmt Spd		
		Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Lim	Pstd
		Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	FT	Drop	Exc	Cls	Cls
47	5529	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	
47	528	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3		
47	1912	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2		
47	2440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
47	2440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**Total Miles : 48.4**

**Exceptions per 100 Miles : 0**

**CY18 National Average Exceptions per 100 miles: 5.0**