

# TRACK GEOMETRY INSPECTION REPORT

Denver, CO to Avondale, CO

Railroad: BNSF RAILWAY CO. (BNSF)

Survey Number: 24202

Milepost 5 to Milepost 605

Survey Conducted by: ENSCO, Inc

Survey Director: JONATHAN HARPER

Report Produced by: FRA TDS



Under the U.S. Department of Transportation, Federal Railroad Administration (FRA), Office of Railroad Safety, Automated Track Inspection Program and, in accordance with 49 CFR Part 213, Federal Track Safety Standards (TSS), this report provides a list of exceptions that relate only to the time and date the track was surveyed. This report is offered only to the track owner and is not intended for any other purpose.

## NOTES

An Automated Track Inspection Program (ATIP) Track Geometry Inspection Report (TGIR) is generated for each staffed ATIP geometry survey and summarizes the data collected. TGIRs are generated onboard, and one copy may be printed, upon request, for one onboard railroad representative and FRA inspector. After survey data are uploaded to FRA's Track Data Services (TDS), a TGIR is produced and distributed via email to recipients designated by FRA and railroad management. This report was generated within TDS.

The TGIR may consist of the following parts:

1. Cover Page,
2. Notes,
3. Exception List,
4. Exception and Event List,
5. Curve Analysis,
6. Exception Summary,
7. Track Quality Index (TQI),
8. Gage Restraint Measurement System (GRMS) Exception List (if equipped),
9. Class +1 Exception and Event List,
10. Class +1 Exception Summary, and
11. Alignment 62 MCO Stations.

Track geometry measurement sample frequency is once per foot.

Exceptions may not be reported for Alignment and Profile parameters when the vehicle speed is less than five (5) miles per hour (MPH).

Exception List symbols/notes:

- + Maximum curve speed is limited at qualified cant deficiency. However, the actual cant deficiency does not exceed the 1-inch grace that may be allowed under 49 CFR 213.57(b) or 1/2-inch under 49 CFR 213.329(b).
- \* Track Safety Advisory

Alignment exceptions reported in turnout paths are considered track safety advisory conditions but are not noted with an \*.

All exception parameter values are reported in inches, except for the following:

- ▶ Limiting Speed (Vmax) is expressed in miles per hour,
- ▶ Ride Quality exceptions: Carbody Lateral, Carbody Vertical, Truck Lateral, and Rail Impact are expressed in g (gravitational acceleration), and
- ▶ Rail Cant; Left (L) and Right (R), NEG[ative] and POS[itive] expressed in angular degrees (°).
- ▶ Combination Profile/Alignment exceptions are expressed without a unit of measure.

The sign of numbers noted in the Value column denote specific information as follows:

- ▶ Alignment exceptions: Negative (-) values indicate rail shifting to the right and Positive (+) values indicate rail shifting to the left, referencing direction of ATIP vehicle travel during testing.
- ▶ Crosslevel exceptions: Negative (-) values indicate right rail is higher than the left and Positive (+) values indicate the left rail is higher, referencing direction of ATIP vehicle travel during testing.
- ▶ Rail Cant exceptions: Negative (-) values indicate an outward shift in the rail angle, and Positive (+) values indicate an inward shift in the rail angle.
- ▶ Profile exceptions: Negative (-) values indicate the measured location is lower than uniform (i.e., dip), and Positive (+) values indicate the measurement is higher (i.e., hump).

ATIP survey data is available on TDS, which is accessible by FRA personnel at: <https://tds.fra.dot.gov/>, and by all others at: <https://tds-ext.fra.dot.gov/>. Survey exceptions and video strip charts are available the first business day after a survey, and foot-by-foot data are available the following week.

## Exception List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
12	1043	92	L Runoff*	1.93	31	16	T	3	4	1	39.591158	-105.021660
12	4007	100	Twist 31ft*	1.14	5	20	E	3	4	1	39.583138	-105.023235
12	5173	106	R Prof 62	-2.11	2	20	T	3	4	1	39.580132	-105.024641
12	5174	107	L Prof 62	-2.17	4	20	T	3	4	1	39.580130	-105.024642
19	1464	145	L Runoff*	2.83	31	18	T	2	4	1	39.496880	-105.012639
31	4078	191	PLG24 Maint*	58.01	1	22	B	2	2	1	39.375842	-104.866014
31	4147	192	PLG24 Maint*	58.18	4	22	B	2	2	1	39.375659	-104.865950
31	4156	197	L Cant NEG*	-3.30	17	22	B	0	2	1	39.375633	-104.865941
31	4341	194	PLG24 Maint*	58.15	3	23	C	2	2	1	39.375138	-104.865812
31	4348	195	PLG24 Maint*	58.02	1	23	C	2	2	1	39.375119	-104.865808
31	4391	196	PLG24 Maint*	58.25	8	23	C	2	2	1	39.375003	-104.865786
31	4457	198	PLG24 Maint*	58.03	2	23	C	2	2	1	39.374823	-104.865759
35	4558	224	L Runoff*	1.78	31	18	T	3	4	1	39.319644	-104.883609
35	4562	226	R Runoff*	2.63	31	18	T	2	4	1	39.319633	-104.883613
37	2327	236	Twist 31ft*	-1.11	3	19	E	3	4	1	39.297804	-104.891660
39	3139	244	PLG24 Maint*	58.31	2	21	C	3	3	1	39.267664	-104.897374
39	3155	245	PLG24 Maint*	58.30	7	21	C	3	3	1	39.267622	-104.897360
39	3200	246	PLG24 Maint*	58.15	3	21	C	3	3	1	39.267503	-104.897318
39	3204	247	PLG24 Maint*	58.15	2	21	C	3	3	1	39.267492	-104.897314
39	3239	248	PLG24 Maint*	58.26	17	21	C	3	3	1	39.267401	-104.897278
39	3238	254	R Cant NEG*	-3.10	26	20	C	0	3	1	39.267401	-104.897278
39	3256	249	PLG24 Maint*	58.02	2	20	E	3	3	1	39.267356	-104.897260
39	3261	250	PLG24 Maint*	58.01	2	21	E	3	3	1	39.267343	-104.897254
39	3334	251	PLG24 Maint*	58.30	4	20	C	3	3	1	39.267154	-104.897170
39	3364	252	PLG24 Maint*	58.16	9	20	C	3	3	1	39.267077	-104.897133
39	3400	253	PLG24 Maint*	58.05	2	20	E	3	3	1	39.266985	-104.897087
41	189	259	PLG24 Maint*	58.07	6	18	B	3	3	1	39.249318	-104.885142
41	294	260	PLG24 Maint*	58.14	5	18	C	3	3	1	39.249056	-104.884987
41	366	261	PLG24 Maint*	58.08	3	19	C	3	3	1	39.248874	-104.884891
41	405	262	PLG24 Maint*	58.12	6	19	C	3	3	1	39.248774	-104.884842
41	446	263	PLG24 Maint*	58.10	4	19	C	3	3	1	39.248668	-104.884793
41	478	264	PLG24 Maint*	58.07	2	20	C	3	3	1	39.248585	-104.884757
41	522	265	PLG24 Maint*	58.17	4	20	C	3	3	1	39.248470	-104.884710
41	533	266	PLG24 Maint*	58.13	6	20	C	3	3	1	39.248442	-104.884699
41	559	267	PLG24 Maint*	58.04	2	20	C	3	3	1	39.248373	-104.884673
41	640	268	PLG24 Maint*	58.22	9	21	C	3	3	1	39.248158	-104.884600
41	660	269	PLG24 Maint*	58.10	5	21	C	3	3	1	39.248104	-104.884583
41	677	270	PLG24 Maint*	58.01	2	21	C	3	3	1	39.248059	-104.884570
41	695	271	PLG24 Maint*	58.11	8	21	C	3	3	1	39.248011	-104.884556
41	727	272	PLG24 Maint*	58.03	2	21	E	3	3	1	39.247925	-104.884533
41	767	273	PLG24 Maint*	58.16	5	22	E	3	3	1	39.247817	-104.884507
41	800	274	PLG24 Maint*	58.07	5	22	E	3	3	1	39.247728	-104.884487
41	4318	275	PLG24 Maint*	58.17	3	19	C	3	3	1	39.238155	-104.883101
43	4515	284	PLG24 Maint*	58.04	2	19	C	3	3	1	39.212123	-104.878047
45	1920	285	PLG24 Maint*	58.18	5	19	C	4	4	1	39.194893	-104.861377

## Exception List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
48	2656	299	GWP Maint*	0.76	1	21	C	3	3	1	39.156092	-104.878865
51	3477	314	PLG24 Maint*	58.05	1	10	C	3	3	1	39.128391	-104.905294
55	4327	376	PLG24 Maint*	58.06	1	15	C	2	2	5	39.091486	-104.875139
56	3914	410	PLG24 Maint*	58.01	1	24	C	4	4	5	39.079226	-104.870645
63	2879	465	L Prof 62	-2.39	2	29	T	2	3	5	38.990940	-104.831962
65	3952	476	PLG24 Maint*	58.01	2	29	C	3	3	5	38.958932	-104.836863
65	3973	477	PLG24 Maint*	58.15	4	29	C	3	3	5	38.958875	-104.836855
66	2110	494	GWP Safety*	1.24	6	28	C	3	3	5	38.951720	-104.831631
76	606	542	PLG24 Maint*	58.09	9	30	B	3	3	5	38.820849	-104.824351
76	619	543	PLG24 Maint*	58.33	12	30	B	3	3	5	38.820845	-104.824306
76	643	544	PLG24 Maint*	58.01	1	30	B	3	3	5	38.820837	-104.824222
76	656	545	LG Safety*	58.02	17	30	B	3	3	5	38.820831	-104.824177
79	220	571	GWP Maint*	0.77	2	29	C	3	3	5	38.796278	-104.781776
79	3075	576	PLG24 Maint*	58.21	9	35	B	3	3	5	38.790788	-104.774646
79	3111	577	PLG24 Maint*	58.00	1	35	B	3	3	5	38.790711	-104.774567
79	3114	578	PLG24 Maint*	58.00	1	35	B	3	3	5	38.790705	-104.774560
79	3123	579	PLG24 Maint*	58.21	14	35	B	3	3	5	38.790685	-104.774541
79	3161	580	PLG24 Maint*	58.05	2	35	C	3	3	5	38.790602	-104.774461
79	3184	581	LG Safety*	58.03	11	35	C	3	3	5	38.790551	-104.774414
79	3204	582	PLG24 Maint*	58.27	11	35	C	3	3	5	38.790506	-104.774374
79	3246	583	PLG24 Maint*	58.04	2	35	C	3	3	5	38.790410	-104.774293
79	3275	584	PLG24 Maint*	58.04	1	35	C	3	3	5	38.790342	-104.774239
79	3283	585	PLG24 Maint*	58.10	4	35	C	3	3	5	38.790324	-104.774225
79	3303	586	PLG24 Maint*	58.09	4	35	C	3	3	5	38.790276	-104.774189
79	3314	587	LG Safety*	58.01	17	35	C	3	3	5	38.790250	-104.774170
79	3339	588	PLG24 Maint*	58.02	2	35	C	3	3	5	38.790190	-104.774126
79	3345	589	PLG24 Maint*	58.05	4	35	C	3	3	5	38.790176	-104.774116
79	3362	590	PLG24 Maint*	58.00	1	35	C	3	3	5	38.790135	-104.774088
79	3366	591	PLG24 Maint*	58.01	1	35	C	3	3	5	38.790125	-104.774081
79	3385	592	PLG24 Maint*	58.43	18	35	C	3	3	5	38.790079	-104.774051
79	3426	593	PLG24 Maint*	58.12	3	35	C	3	3	5	38.789978	-104.773987
79	3440	594	PLG24 Maint*	58.04	2	35	C	3	3	5	38.789944	-104.773966
79	3453	595	PLG24 Maint*	58.04	2	35	C	3	3	5	38.789911	-104.773947
79	3462	596	PLG24 Maint*	58.19	5	35	C	3	3	5	38.789889	-104.773934
79	3486	597	PLG24 Maint*	58.00	1	35	E	3	3	5	38.789829	-104.773900
79	3492	598	PLG24 Maint*	58.05	4	35	E	3	3	5	38.789814	-104.773892
79	3512	599	PLG24 Maint*	58.37	19	35	E	3	3	5	38.789763	-104.773865
79	3529	600	PLG24 Maint*	58.15	5	35	E	3	3	5	38.789720	-104.773842
79	3570	601	PLG24 Maint*	58.01	1	35	E	3	3	5	38.789615	-104.773789
79	3574	602	PLG24 Maint*	58.14	4	35	E	3	3	5	38.789605	-104.773784
80	2440	613	PLG24 Maint*	58.03	1	19	C	3	3	5	38.778912	-104.769066
84	2132	647	L Align 62	2.13	11	38	B	2	3	5	38.732982	-104.726577
85	23	649	PLG24 Maint*	58.02	1	37	C	4	4	1	38.725166	-104.719756
87	1261	654	PLG24 Maint*	58.18	6	40	C	4	4	1	38.696831	-104.705127
87	1367	656	PLG24 Maint*	58.27	13	40	C	4	4	1	38.696549	-104.705038

TGIR  
Exception List  
Milepost 5 to Milepost 605  
Denver, CO to Avondale, CO

Run Date: 10/02/2023  
Run ID: 2023100205  
Vehicle ID: DOTX 220

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
87	1370	661	R Prof 62	-2.21	4	39	E	3	4	1	38.696538	-104.705035
91	542	710	PLG24 Maint*	58.00	1	45	E	4	4	1	38.641940	-104.691505
92	3156	724	L Runoff*	1.62	31	42	T	3	4	1	38.620623	-104.688003
92	3246	727	R Runoff*	2.26	31	42	T	2	4	1	38.620384	-104.687924
92	3247	729	L Runoff*	2.53	31	42	T	2	4	1	38.620382	-104.687924
99	892	787	L Runoff*	2.20	31	41	T	2	4	1	38.534585	-104.638197
99	893	789	R Runoff*	2.03	31	42	T	2	4	1	38.534583	-104.638196
100	4106	797	L Cant POS*	5.70	28	42	T	0	4	1	38.512974	-104.627207
105	2537	812	GWP Maint*	0.81	1	41	C	4	4	1	38.447646	-104.605213
105	2618	813	PLG24 Maint*	58.17	4	41	C	4	4	1	38.447424	-104.605211
108	3572	827	R Prof 62	-2.17	5	36	T	3	4	1	38.401835	-104.612014
108	3730	831	L Runoff*	2.24	31	36	T	2	4	1	38.401408	-104.612106
118	2829	921	L Align 62	-3.58	14	18	C	1	2	1	38.273492	-104.629082
118	2829	922	R Align 62	-3.63	13	18	C	1	2	1	38.273492	-104.629082
118	4375	926	PLG24 Maint*	58.04	1	18	C	2	2	1	38.271075	-104.624668
118	5142	935	PLG24 Maint*	58.25	7	17	B	2	2	1	38.269717	-104.622642
118	5245	936	PLG24 Maint*	58.08	2	18	C	2	2	1	38.269507	-104.622390
611	3608	1129	PLG24 Maint*	58.34	6	37	T	4	4	5	38.276213	-104.469300

Notes:

\* Track Safety Advisory

+ Maximum curve speed is limited at qualified cant deficiency. However, actual cant deficiency does not exceed the 1-inch grace that may be allowed under 49 CFR 213.57(b) or 1/2-inch under 49 CFR 213.329(b).

## Exception and Event List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
5	1584		Class Change	4	0	0	T	0	0	1		
5	1584		Track Change	1	0	0	T	0	0	1		
5	1		Up Milepost	5	0	0	T	0	0	1		
5	1584		State Line	CO	0	0	T	0	0	1		
5	1584		Subdivision	PIKES PEAK	0	0	T	0	0	1		
5	1584		Railroad	BNSF - BNSF RAILWAY CO.	0	0	T	0	0	1		
5	1584		Posted Speed	45	0	0	T	0	0	1		
5	1800		Concrete Ties Start		0	8	T	0	0	1	39.686927	-104.990706
6	3760		Up Milepost	6	0	16	T	0	0	1	39.677410	-104.993234
7	5251		Up Milepost	7	0	18	C	0	0	1	39.663302	-104.996921
7	3991		Class Change	2	0	24	T	0	0	1	39.652898	-105.001301
7	3991		Posted Speed	25	0	24	T	0	0	1	39.652898	-105.001301
7	4983		Concrete Ties End		0	23	B	0	0	1	39.650289	-105.002307
8	5224		Up Milepost	8	0	23	T	0	0	1	39.649656	-105.002553
8	913		Concrete Ties Start		0	23	T	0	0	1	39.647255	-105.003473
8	2404		Class Change	4	0	22	T	0	0	1	39.643340	-105.004969
8	2404		Posted Speed	45	0	22	T	0	0	1	39.643340	-105.004969
9	5332		Up Milepost	9	0	27	T	0	0	1	39.635528	-105.007336
9	1229		Concrete Ties End		0	27	B	0	0	1	39.632223	-105.008183
10	5229		Up Milepost	10	0	25	T	0	0	1	39.621476	-105.010993
10	2781		Concrete Ties Start		0	24	C	0	0	1	39.614112	-105.013508
10	3179		Concrete Ties End		0	24	C	0	0	1	39.613115	-105.014081
10	3325		Concrete Ties Start		0	24	C	0	0	1	39.612751	-105.014296
10	3647		Concrete Ties End		0	24	C	0	0	1	39.611948	-105.014772
10	4753		Concrete Ties Start		0	21	T	0	0	1	39.609182	-105.016381
11	5253		Up Milepost	11	0	20	T	0	0	1	39.607929	-105.017096
12	5255		Up Milepost	12	0	14	T	0	0	1	39.593997	-105.021196
12	1043	92	<b>L Runoff*</b>	1.93	31	16	T	3	4	1	39.591158	-105.021660
12	4007	100	<b>Twist 31ft*</b>	1.14	5	20	E	3	4	1	39.583138	-105.023235
12	5173	106	<b>R Prof 62</b>	-2.11	2	20	T	3	4	1	39.580132	-105.024641
12	5174	107	<b>L Prof 62</b>	-2.17	4	20	T	3	4	1	39.580130	-105.024642
13	6700		Up Milepost	13	0	23	C	0	0	1	39.576264	-105.026698
13	4391		Concrete Ties End		0	15	T	0	0	1	39.564861	-105.031488
13	4870		Concrete Ties Start		0	14	B	0	0	1	39.563618	-105.032033
14	5217		Up Milepost	14	0	15	C	0	0	1	39.562771	-105.032590
14	1502		Concrete Ties End		0	15	C	0	0	1	39.559671	-105.036048
14	1876		Concrete Ties Start		0	17	E	0	0	1	39.559022	-105.037073
15	5314		Up Milepost	15	0	19	C	0	0	1	39.551995	-105.044825
15	1457		Concrete Ties End		0	18	C	0	0	1	39.548043	-105.044802
15	1742		Concrete Ties Start		0	19	E	0	0	1	39.547286	-105.044551
16	5181		Up Milepost	16	0	22	C	0	0	1	39.538397	-105.040700
16	3318		Class Change	4	0	28	T	0	0	1	39.530758	-105.034322
16	3318		Posted Speed	45	0	28	T	0	0	1	39.530758	-105.034322
17	5157		Up Milepost	17	0	28	C	0	0	1	39.526415	-105.031032
18	5304		Up Milepost	18	0	16	B	0	0	1	39.513317	-105.022948

TGIR  
Exception and Event List  
Milepost 5 to Milepost 605  
Denver, CO to Avondale, CO

Run Date: 10/02/2023  
Run ID: 2023100205  
Vehicle ID: DOTX 220

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
18	2916		Concrete Ties End		0	15	B	0	0	1	39.506180	-105.018611
18	3128		Concrete Ties Start		0	14	B	0	0	1	39.505635	-105.018348
19	5258		Up Milepost	19	0	17	C	0	0	1	39.500621	-105.014499
19	1194		Concrete Ties End		0	17	E	0	0	1	39.497580	-105.012947
19	1428		Concrete Ties Start		0	18	T	0	0	1	39.496973	-105.012680
19	1464	145	<b>L Runoff*</b>	2.83	31	18	T	2	4	1	39.496880	-105.012639
19	3146		Concrete Ties End		0	21	T	0	0	1	39.492846	-105.009816
19	3307		Concrete Ties Start		0	21	T	0	0	1	39.492480	-105.009498
20	5283		Up Milepost	20	0	19	C	0	0	1	39.488659	-105.004679
20	1291		Class Change	3	0	19	E	0	0	1	39.486993	-105.000667
20	1291		Posted Speed	40	0	19	E	0	0	1	39.486993	-105.000667
20	2006		Class Change	4	0	20	C	0	0	1	39.485588	-104.998912
20	2006		Posted Speed	45	0	20	C	0	0	1	39.485588	-104.998912
20	3088		Concrete Ties End		0	18	C	0	0	1	39.482937	-104.997241
20	3311		Concrete Ties Start		0	18	E	0	0	1	39.482353	-104.997005
21	5297		Up Milepost	21	0	19	T	0	0	1	39.477155	-104.994921
21	3469		Class Change	3	0	14	T	0	0	1	39.468585	-104.989728
21	3469		Posted Speed	35	0	14	T	0	0	1	39.468585	-104.989728
22	5286		Up Milepost	22	0	15	C	0	0	1	39.463818	-104.988073
23	5269		Up Milepost	23	0	17	T	0	0	1	39.451072	-104.979391
23	1872		Class Change	2	0	14	C	0	0	1	39.446150	-104.977663
23	1872		Posted Speed	25	0	14	C	0	0	1	39.446150	-104.977663
23	2983		Concrete Ties End		0	15	C	0	0	1	39.443170	-104.976986
23	3158		Concrete Ties Start		0	14	C	0	0	1	39.442692	-104.977022
23	3399		Class Change	3	0	12	E	0	0	1	39.442030	-104.977012
23	3399		Posted Speed	35	0	12	E	0	0	1	39.442030	-104.977012
24	5291		Up Milepost	24	0	11	C	0	0	1	39.438492	-104.972786
24	1878		Class Change	2	0	15	T	0	0	1	39.437422	-104.966293
24	1878		Posted Speed	25	0	15	T	0	0	1	39.437422	-104.966293
24	2513		Concrete Ties End		0	17	T	0	0	1	39.437060	-104.964097
24	2713		Concrete Ties Start		0	17	T	0	0	1	39.436946	-104.963406
24	3431		Class Change	3	0	16	T	0	0	1	39.436552	-104.960918
24	3431		Posted Speed	35	0	16	T	0	0	1	39.436552	-104.960918
24	5179		Posted Speed	40	0	18	C	0	0	1	39.436152	-104.954812
25	5274		Up Milepost	25	0	18	C	0	0	1	39.436059	-104.954500
25	942		Concrete Ties End		0	20	C	0	0	1	39.435218	-104.951353
26	5239		Up Milepost	26	0	26	T	0	0	1	39.432302	-104.936634
26	2301		Concrete Ties Start		0	26	T	0	0	1	39.429945	-104.929091
26	3442		Concrete Ties End		0	27	C	0	0	1	39.428375	-104.925642
26	3807		Concrete Ties Start		0	28	C	0	0	1	39.427603	-104.924824
27	5439		Up Milepost	27	0	25	C	0	0	1	39.424522	-104.920782
27	264		Concrete Ties End		0	24	B	0	0	1	39.424232	-104.919927
28	5254		Up Milepost	28	0	23	T	0	0	1	39.418752	-104.903765
29	5242		Up Milepost	29	0	22	T	0	0	1	39.411304	-104.888047
30	5247		Up Milepost	30	0	23	C	0	0	1	39.400524	-104.875984

## Exception and Event List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
30	1306		Concrete Ties Start		0	26	T	0	0	1	39.397461	-104.873594
30	1491		Posted Speed	30	0	25	T	0	0	1	39.397027	-104.873255
30	2572		Concrete Ties End		0	22	E	0	0	1	39.394269	-104.871943
30	3967		Class Change	2	0	20	T	0	0	1	39.390520	-104.870978
30	3967		Posted Speed	25	0	20	T	0	0	1	39.390520	-104.870978
30	5098		Class Change	3	0	21	T	0	0	1	39.387479	-104.870194
30	5098		Posted Speed	30	0	21	T	0	0	1	39.387479	-104.870194
31	5433		Up Milepost	31	0	20	T	0	0	1	39.386579	-104.869962
31	3931		Class Change	2	0	22	T	0	0	1	39.376224	-104.866168
31	3931		Posted Speed	25	0	22	T	0	0	1	39.376224	-104.866168
31	4078	191	<b>PLG24 Maint*</b>	58.01	1	22	T	2	2	1	39.375842	-104.866014
31	4147	192	<b>PLG24 Maint*</b>	58.18	4	22	T	2	2	1	39.375659	-104.865950
31	4156	197	<b>L Cant NEG*</b>	-3.30	17	22	T	0	2	1	39.375633	-104.865941
31	4341	194	<b>PLG24 Maint*</b>	58.15	3	23	T	2	2	1	39.375138	-104.865812
31	4348	195	<b>PLG24 Maint*</b>	58.02	1	23	T	2	2	1	39.375119	-104.865808
31	4391	196	<b>PLG24 Maint*</b>	58.25	8	23	T	2	2	1	39.375003	-104.865786
31	4457	198	<b>PLG24 Maint*</b>	58.03	2	23	T	2	2	1	39.374823	-104.865759
31	5056		Class Change	3	0	22	T	0	0	1	39.373180	-104.865681
31	5056		Posted Speed	30	0	22	T	0	0	1	39.373180	-104.865681
32	5087		Up Milepost	32	0	22	T	0	0	1	39.373095	-104.865678
32	1520		Concrete Ties Start		0	19	T	0	0	1	39.368929	-104.865536
32	2225		Concrete Ties End		0	21	T	0	0	1	39.367123	-104.866259
32	2561		Concrete Ties Start		0	22	E	0	0	1	39.366381	-104.866961
32	3456		Posted Speed	40	0	18	C	0	0	1	39.364083	-104.867797
32	4491		Class Change	4	0	18	C	0	0	1	39.361260	-104.867994
32	4491		Posted Speed	45	0	18	C	0	0	1	39.361260	-104.867994
32	4711		Concrete Ties End		0	19	E	0	0	1	39.360672	-104.868165
33	5251		Up Milepost	33	0	20	T	0	0	1	39.359227	-104.868586
34	5309		Up Milepost	34	0	18	T	0	0	1	39.345391	-104.874295
35	5197		Up Milepost	35	0	19	T	0	0	1	39.331674	-104.879258
35	4558	224	<b>L Runoff*</b>	1.78	31	18	T	3	4	1	39.319644	-104.883609
35	4562	226	<b>R Runoff*</b>	2.63	31	18	T	2	4	1	39.319633	-104.883613
36	5259		Up Milepost	36	0	17	T	0	0	1	39.317794	-104.884278
37	5260		Up Milepost	37	0	22	T	0	0	1	39.303909	-104.889296
37	2327	236	<b>Twist 31ft*</b>	-1.11	3	19	E	3	4	1	39.297804	-104.891660
38	5244		Up Milepost	38	0	17	T	0	0	1	39.290494	-104.895831
39	5269		Up Milepost	39	0	18	B	0	0	1	39.276222	-104.898455
39	2688		Class Change	3	0	19	T	0	0	1	39.268882	-104.897612
39	2688		Posted Speed	40	0	19	T	0	0	1	39.268882	-104.897612
39	3139	244	<b>PLG24 Maint*</b>	58.31	2	21	T	3	3	1	39.267664	-104.897374
39	3155	245	<b>PLG24 Maint*</b>	58.30	7	21	T	3	3	1	39.267622	-104.897360
39	3200	246	<b>PLG24 Maint*</b>	58.15	3	21	T	3	3	1	39.267503	-104.897318
39	3204	247	<b>PLG24 Maint*</b>	58.15	2	21	T	3	3	1	39.267492	-104.897314
39	3239	248	<b>PLG24 Maint*</b>	58.26	17	21	T	3	3	1	39.267401	-104.897278
39	3238	254	<b>R Cant NEG*</b>	-3.10	26	20	B	0	3	1	39.267401	-104.897278



## Exception and Event List

Run ID: 2023100205

Milepost 5 to Milepost 605

Vehicle ID: DOTX 220

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
39	3256	249	PLG24 Maint*	58.02	2	20	T	3	3	1	39.267356	-104.897260
39	3261	250	PLG24 Maint*	58.01	2	21	T	3	3	1	39.267343	-104.897254
39	3334	251	PLG24 Maint*	58.30	4	20	B	3	3	1	39.267154	-104.897170
39	3364	252	PLG24 Maint*	58.16	9	20	B	3	3	1	39.267077	-104.897133
39	3400	253	PLG24 Maint*	58.05	2	20	B	3	3	1	39.266985	-104.897087
40	5244		Up Milepost	40	0	17	T	0	0	1	39.262395	-104.894350
41	5257		Up Milepost	41	0	17	T	0	0	1	39.249770	-104.885460
41	189	259	PLG24 Maint*	58.07	6	18	T	3	3	1	39.249318	-104.885142
41	294	260	PLG24 Maint*	58.14	5	18	T	3	3	1	39.249056	-104.884987
41	366	261	PLG24 Maint*	58.08	3	19	T	3	3	1	39.248874	-104.884891
41	405	262	PLG24 Maint*	58.12	6	19	T	3	3	1	39.248774	-104.884842
41	446	263	PLG24 Maint*	58.10	4	19	T	3	3	1	39.248668	-104.884793
41	478	264	PLG24 Maint*	58.07	2	20	T	3	3	1	39.248585	-104.884757
41	522	265	PLG24 Maint*	58.17	4	20	T	3	3	1	39.248470	-104.884710
41	533	266	PLG24 Maint*	58.13	6	20	T	3	3	1	39.248442	-104.884699
41	559	267	PLG24 Maint*	58.04	2	20	B	3	3	1	39.248373	-104.884673
41	640	268	PLG24 Maint*	58.22	9	21	B	3	3	1	39.248158	-104.884600
41	660	269	PLG24 Maint*	58.10	5	21	B	3	3	1	39.248104	-104.884583
41	677	270	PLG24 Maint*	58.01	2	21	B	3	3	1	39.248059	-104.884570
41	695	271	PLG24 Maint*	58.11	8	21	B	3	3	1	39.248011	-104.884556
41	727	272	PLG24 Maint*	58.03	2	21	B	3	3	1	39.247925	-104.884533
41	767	273	PLG24 Maint*	58.16	5	22	B	3	3	1	39.247817	-104.884507
41	800	274	PLG24 Maint*	58.07	5	22	B	3	3	1	39.247728	-104.884487
41	4318	275	PLG24 Maint*	58.17	3	19	T	3	3	1	39.238155	-104.883101
42	5261		Up Milepost	42	0	20	T	0	0	1	39.235637	-104.883853
42	4054		Concrete Ties Start		0	20	T	0	0	1	39.224863	-104.887366
43	5261		Up Milepost	43	0	18	C	0	0	1	39.221599	-104.887834
43	813		Concrete Ties End		0	19	C	0	0	1	39.219486	-104.886973
43	1239		Concrete Ties Start		0	16	C	0	0	1	39.218509	-104.886154
43	1858		Concrete Ties End		0	14	E	0	0	1	39.217283	-104.884648
43	4515	284	PLG24 Maint*	58.04	2	19	T	3	3	1	39.212123	-104.878047
44	5245		Up Milepost	44	0	19	E	0	0	1	39.210373	-104.876806
44	2043		Class Change	4	0	22	C	0	0	1	39.206180	-104.872125
44	2043		Posted Speed	45	0	22	C	0	0	1	39.206180	-104.872125
45	5251		Up Milepost	45	0	16	T	0	0	1	39.199164	-104.865309
45	1920	285	PLG24 Maint*	58.18	5	19	T	4	4	1	39.194893	-104.861377
46	5267		Up Milepost	35	0	15	T	0	0	1	39.186015	-104.858412
35	975		Class Change	3	0	16	T	0	0	1	39.183421	-104.857585
35	975		Posted Speed	35	0	16	T	0	0	1	39.183421	-104.857585
35	1232		Class Change	2	0	14	T	0	0	1	39.182737	-104.857366
35	1232		Posted Speed	25	0	14	T	0	0	1	39.182737	-104.857366
46	2037		Up Milepost	46	0	14	T	0	0	1	39.180593	-104.856695
46	3502		Concrete Ties End		0	20	E	0	0	1	39.177023	-104.857942
46	5302		Class Change	3	0	18	T	0	0	1	39.172832	-104.861288
46	5302		Posted Speed	35	0	18	T	0	0	1	39.172832	-104.861288

## Exception and Event List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
47	3205		Up Milepost	47	0	18	T	0	0	1	39.172800	-104.861314
48	5240		Up Milepost	48	0	18	T	0	0	1	39.161502	-104.872611
48	2656	299	<b>GWP Maint*</b>	0.76	1	21	T	3	3	1	39.156092	-104.878865
48	4313		Posted Speed	30	0	17	T	0	0	1	39.152945	-104.883077
48	4573		Concrete Ties Start		0	17	T	0	0	1	39.152445	-104.883730
49	5266		Up Milepost	49	0	19	C	0	0	1	39.150782	-104.884859
50	1475		Up Milepost	50	0	18	B	0	0	1	39.147492	-104.887796
51	5290		Up Milepost	51	0	19	C	0	0	1	39.135699	-104.897769
51	3477	314	<b>PLG24 Maint*</b>	58.05	1	10	B	3	3	1	39.128391	-104.905294
51	4721		Concrete Ties End		0	8	T	0	0	1	39.126438	-104.908888
52	5323		Up Milepost	52	0	12	T	0	0	1	39.125510	-104.910640
52	37		Track Change	5	0	12	T	0	0	5	39.125453	-104.910747
52	419		Concrete Ties Start		0	12	B	0	0	5	39.124809	-104.911807
53	5236		Up Milepost	53	0	23	C	0	0	5	39.116001	-104.904649
54	5323		Up Milepost	54	0	25	B	0	0	5	39.109376	-104.888620
55	5276		Up Milepost	55	0	23	E	0	0	5	39.102113	-104.876237
55	2243		Class Change	2	0	21	C	0	0	5	39.096960	-104.873310
55	2243		Posted Speed	25	0	21	C	0	0	5	39.096960	-104.873310
55	4327	376	<b>PLG24 Maint*</b>	58.06	1	15	C	2	2	5	39.091486	-104.875139
56	5248		Up Milepost	56	0	12	C	0	0	5	39.089020	-104.874531
56	919		Concrete Ties End		0	17	C	0	0	5	39.086935	-104.872751
56	1150		Concrete Ties Start		0	17	E	0	0	5	39.086464	-104.872208
56	2664		Concrete Ties End		0	21	E	0	0	5	39.082626	-104.870768
56	2864		Concrete Ties Start		0	22	T	0	0	5	39.082078	-104.870805
56	3914	410	<b>PLG24 Maint*</b>	58.01	1	24	T	4	4	5	39.079226	-104.870645
57	5334		Up Milepost	57	0	25	T	0	0	5	39.075738	-104.868425
57	2419		Concrete Ties End		0	25	T	0	0	5	39.069697	-104.865048
57	2578		Concrete Ties Start		0	25	C	0	0	5	39.069263	-104.865019
58	5243		Up Milepost	58	0	24	T	0	0	5	39.062294	-104.862471
59	5305		Up Milepost	59	0	25	E	0	0	5	39.048965	-104.857296
59	1938		Concrete Ties End		0	25	T	0	0	5	39.045301	-104.852712
59	2055		Concrete Ties Start		0	24	T	0	0	5	39.045025	-104.852503
59	4945		Concrete Ties End		0	25	T	0	0	5	39.037806	-104.848453
59	5020		Concrete Ties Start		0	25	T	0	0	5	39.037609	-104.848376
60	5285		Up Milepost	60	0	24	B	0	0	5	39.036896	-104.848208
60	1675		Class Change	3	0	24	C	0	0	5	39.032490	-104.848546
60	1675		Posted Speed	30	0	24	C	0	0	5	39.032490	-104.848546
61	5121		Up Milepost	61	0	29	C	0	0	5	39.023772	-104.843886
62	4841		Up Milepost	62	0	27	T	0	0	5	39.011992	-104.836818
63	5513		Up Milepost	63	0	28	C	0	0	5	38.998277	-104.830975
63	2879	465	<b>L Prof 62</b>	-2.39	2	29	T	2	3	5	38.990940	-104.831962
64	5223		Up Milepost	64	0	29	C	0	0	5	38.984600	-104.831137
64	1772		Concrete Ties End		0	28	T	0	0	5	38.979807	-104.832148
64	1913		Concrete Ties Start		0	28	T	0	0	5	38.979425	-104.832229
64	3129		Concrete Ties End		0	28	C	0	0	5	38.976144	-104.832980

## Exception and Event List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
64	3340		Concrete Ties Start		0	28	C	0	0	5	38.975577	-104.833130
65	5567		Up Milepost	65	0	30	C	0	0	5	38.969632	-104.834905
65	3873		Concrete Ties End		0	28	B	0	0	5	38.959146	-104.836885
65	3952	476	<b>PLG24 Maint*</b>	58.01	2	29	T	3	3	5	38.958932	-104.836863
65	3973	477	<b>PLG24 Maint*</b>	58.15	4	29	T	3	3	5	38.958875	-104.836855
65	4002		Concrete Ties Start		0	28	T	0	0	5	38.958793	-104.836842
66	5001		Up Milepost	66	0	28	T	0	0	5	38.956168	-104.835864
66	2110	494	<b>GWP Safety*</b>	1.24	6	28	E	3	3	5	38.951720	-104.831631
67	5321		Up Milepost	67	0	30	T	0	0	5	38.944275	-104.825624
68	5274		Up Milepost	68	0	30	T	0	0	5	38.931222	-104.817783
68	1572		Concrete Ties End		0	30	C	0	0	5	38.927062	-104.817145
68	1689		Concrete Ties Start		0	29	C	0	0	5	38.926761	-104.817288
68	2281		Class Change	4	0	29	E	0	0	5	38.925367	-104.818342
68	2281		Posted Speed	45	0	29	E	0	0	5	38.925367	-104.818342
68	4592		Concrete Ties End		0	31	T	0	0	5	38.919391	-104.820815
68	4651		Concrete Ties Start		0	31	T	0	0	5	38.919234	-104.820862
69	5278		Up Milepost	69	0	33	T	0	0	5	38.917560	-104.821361
69	1367		Concrete Ties End		0	37	T	0	0	5	38.913910	-104.822452
69	1615		Concrete Ties Start		0	38	T	0	0	5	38.913248	-104.822650
70	5285		Up Milepost	70	0	43	T	0	0	5	38.903371	-104.824882
70	2262		Concrete Ties End		0	42	C	0	0	5	38.897268	-104.826077
70	2532		Concrete Ties Start		0	42	C	0	0	5	38.896552	-104.826321
70	3657		Concrete Ties End		0	43	T	0	0	5	38.893572	-104.827339
70	3868		Concrete Ties Start		0	43	T	0	0	5	38.893013	-104.827528
70	4392		Concrete Ties End		0	44	T	0	0	5	38.891624	-104.828001
70	4532		Concrete Ties Start		0	43	T	0	0	5	38.891253	-104.828128
71	5271		Up Milepost	71	0	43	T	0	0	5	38.889296	-104.828797
71	7079		Concrete Ties End		0	42	T	0	0	5	38.870433	-104.832802
71	7389		Concrete Ties Start		0	42	T	0	0	5	38.869588	-104.832675
71	10511		Concrete Ties End		0	40	T	0	0	5	38.861099	-104.832991
73	10546		Up Milepost	73	0	40	T	0	0	5	38.861004	-104.833011
73	186		Concrete Ties Start		0	40	T	0	0	5	38.860501	-104.833117
73	3690		Concrete Ties End		0	35	T	0	0	5	38.851166	-104.831170
73	3947		Concrete Ties Start		0	34	T	0	0	5	38.850468	-104.831043
74	5123		Up Milepost	74	0	30	T	0	0	5	38.847276	-104.830458
74	2027		Concrete Ties End		0	29	T	0	0	5	38.841774	-104.829450
74	2230		Concrete Ties Start		0	28	T	0	0	5	38.841223	-104.829349
74	2498		Concrete Ties End		0	28	T	0	0	5	38.840496	-104.829216
74	2701		Concrete Ties Start		0	28	T	0	0	5	38.839945	-104.829116
74	3117		Concrete Ties End		0	27	T	0	0	5	38.838816	-104.828910
74	3512		Concrete Ties Start		0	27	T	0	0	5	38.837743	-104.828719
74	3650		Class Change	3	0	27	T	0	0	5	38.837366	-104.828668
74	3650		Posted Speed	30	0	27	T	0	0	5	38.837366	-104.828668
75	5771		Up Milepost	75	0	29	T	0	0	5	38.831653	-104.829909
75	2363		Concrete Ties End		0	26	C	0	0	5	38.825278	-104.831259

## Exception and Event List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
75	2571		Concrete Ties Start		0	26	C	0	0	5	38.824708	-104.831236
75	2922		Concrete Ties End		0	27	T	0	0	5	38.823745	-104.831186
75	3138		Concrete Ties Start		0	27	C	0	0	5	38.823157	-104.831111
75	3936		Concrete Ties End		0	29	B	0	0	5	38.821233	-104.829903
75	4116		Concrete Ties Start		0	29	C	0	0	5	38.820933	-104.829402
76	4994		Up Milepost	76	0	30	C	0	0	5	38.820615	-104.826440
76	558		Concrete Ties End		0	29	B	0	0	5	38.820859	-104.824515
76	606	542	<b>PLG24 Maint*</b>	58.09	9	30	E	3	3	5	38.820849	-104.824351
76	619	543	<b>PLG24 Maint*</b>	58.33	12	30	E	3	3	5	38.820845	-104.824306
76	643	544	<b>PLG24 Maint*</b>	58.01	1	30	E	3	3	5	38.820837	-104.824222
76	656	545	<b>LG Safety*</b>	58.02	17	30	E	3	3	5	38.820831	-104.824177
76	707		Concrete Ties Start		0	29	B	0	0	5	38.820805	-104.823998
76	1035		Concrete Ties End		0	30	C	0	0	5	38.820510	-104.822914
76	1175		Concrete Ties Start		0	30	E	0	0	5	38.820368	-104.822458
76	3192		Posted Speed	40	0	29	T	0	0	5	38.817939	-104.816127
76	3329		Concrete Ties End		0	29	T	0	0	5	38.817751	-104.815712
76	3445		Concrete Ties Start		0	28	T	0	0	5	38.817599	-104.815355
77	5269		Up Milepost	77	0	29	T	0	0	5	38.815435	-104.809591
78	5286		Up Milepost	78	0	23	T	0	0	5	38.807274	-104.794438
78	515		Class Change	2	0	23	B	0	0	5	38.806309	-104.793123
78	515		Posted Speed	25	0	23	B	0	0	5	38.806309	-104.793123
78	1251		Class Change	3	0	24	E	0	0	5	38.804749	-104.791487
78	1251		Posted Speed	40	0	24	E	0	0	5	38.804749	-104.791487
78	4859		Concrete Ties End		0	26	C	0	0	5	38.797219	-104.783452
79	5229		Up Milepost	79	0	28	T	0	0	5	38.796647	-104.782381
79	220	571	<b>GWP Maint*</b>	0.77	2	29	T	3	3	5	38.796278	-104.781776
79	3075	576	<b>PLG24 Maint*</b>	58.21	9	35	T	3	3	5	38.790788	-104.774646
79	3111	577	<b>PLG24 Maint*</b>	58.00	1	35	T	3	3	5	38.790711	-104.774567
79	3114	578	<b>PLG24 Maint*</b>	58.00	1	35	T	3	3	5	38.790705	-104.774560
79	3123	579	<b>PLG24 Maint*</b>	58.21	14	35	T	3	3	5	38.790685	-104.774541
79	3161	580	<b>PLG24 Maint*</b>	58.05	2	35	T	3	3	5	38.790602	-104.774461
79	3184	581	<b>LG Safety*</b>	58.03	11	35	T	3	3	5	38.790551	-104.774414
79	3204	582	<b>PLG24 Maint*</b>	58.27	11	35	T	3	3	5	38.790506	-104.774374
79	3246	583	<b>PLG24 Maint*</b>	58.04	2	35	T	3	3	5	38.790410	-104.774293
79	3275	584	<b>PLG24 Maint*</b>	58.04	1	35	T	3	3	5	38.790342	-104.774239
79	3283	585	<b>PLG24 Maint*</b>	58.10	4	35	T	3	3	5	38.790324	-104.774225
79	3303	586	<b>PLG24 Maint*</b>	58.09	4	35	T	3	3	5	38.790276	-104.774189
79	3314	587	<b>LG Safety*</b>	58.01	17	35	T	3	3	5	38.790250	-104.774170
79	3339	588	<b>PLG24 Maint*</b>	58.02	2	35	T	3	3	5	38.790190	-104.774126
79	3345	589	<b>PLG24 Maint*</b>	58.05	4	35	T	3	3	5	38.790176	-104.774116
79	3362	590	<b>PLG24 Maint*</b>	58.00	1	35	T	3	3	5	38.790135	-104.774088
79	3366	591	<b>PLG24 Maint*</b>	58.01	1	35	T	3	3	5	38.790125	-104.774081
79	3385	592	<b>PLG24 Maint*</b>	58.43	18	35	T	3	3	5	38.790079	-104.774051
79	3426	593	<b>PLG24 Maint*</b>	58.12	3	35	B	3	3	5	38.789978	-104.773987
79	3440	594	<b>PLG24 Maint*</b>	58.04	2	35	B	3	3	5	38.789944	-104.773966

## Exception and Event List

Run ID: 2023100205

Milepost 5 to Milepost 605

Vehicle ID: DOTX 220

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
79	3453	595	<b>PLG24 Maint*</b>	58.04	2	35	B	3	3	5	38.789911	-104.773947
79	3462	596	<b>PLG24 Maint*</b>	58.19	5	35	B	3	3	5	38.789889	-104.773934
79	3486	597	<b>PLG24 Maint*</b>	58.00	1	35	B	3	3	5	38.789829	-104.773900
79	3492	598	<b>PLG24 Maint*</b>	58.05	4	35	B	3	3	5	38.789814	-104.773892
79	3512	599	<b>PLG24 Maint*</b>	58.37	19	35	B	3	3	5	38.789763	-104.773865
79	3529	600	<b>PLG24 Maint*</b>	58.15	5	35	B	3	3	5	38.789720	-104.773842
79	3570	601	<b>PLG24 Maint*</b>	58.01	1	35	B	3	3	5	38.789615	-104.773789
79	3574	602	<b>PLG24 Maint*</b>	58.14	4	35	B	3	3	5	38.789605	-104.773784
80	5260		Up Milepost	80	0	36	T	0	0	5	38.785227	-104.771875
80	2440	613	<b>PLG24 Maint*</b>	58.03	1	19	T	3	3	5	38.778912	-104.769066
80	3190		Class Change	4	0	21	C	0	0	5	38.777167	-104.767677
80	3190		Posted Speed	55	0	21	C	0	0	5	38.777167	-104.767677
81	5296		Up Milepost	81	0	19	T	0	0	5	38.772499	-104.763335
82	5209		Up Milepost	82	0	24	T	0	0	5	38.760955	-104.752591
83	5252		Up Milepost	83	0	41	T	0	0	5	38.749314	-104.741762
83	4329		Class Change	3	0	39	T	0	0	5	38.739718	-104.732837
83	4329		Posted Speed	40	0	39	T	0	0	5	38.739718	-104.732837
84	5235		Up Milepost	84	0	39	T	0	0	5	38.737710	-104.730969
84	1246		Class Change	4	0	39	T	0	0	5	38.734948	-104.728401
84	1246		Posted Speed	55	0	39	T	0	0	5	38.734948	-104.728401
84	2069		Class Change	3	0	38	T	0	0	5	38.733123	-104.726706
84	2069		Posted Speed	40	0	38	T	0	0	5	38.733123	-104.726706
84	2132	647	<b>L Align 62</b>	2.13	11	38	B	2	3	5	38.732982	-104.726577
84	2721		Track Change	1	0	39	C	0	0	1	38.731620	-104.725469
84	2880		Class Change	4	0	39	C	0	0	1	38.731244	-104.725188
84	2880		Posted Speed	55	0	39	C	0	0	1	38.731244	-104.725188
85	5565		Up Milepost	85	0	36	T	0	0	1	38.725215	-104.719799
85	23	649	<b>PLG24 Maint*</b>	58.02	1	37	T	4	4	1	38.725166	-104.719756
86	5297		Up Milepost	86	0	38	T	0	0	1	38.711921	-104.712394
86	2879		Class Change	3	0	37	C	0	0	1	38.704549	-104.708798
86	2879		Posted Speed	40	0	37	C	0	0	1	38.704549	-104.708798
86	4364		Class Change	4	0	37	E	0	0	1	38.700702	-104.707114
86	4364		Posted Speed	55	0	37	E	0	0	1	38.700702	-104.707114
87	4626		Up Milepost	87	0	38	T	0	0	1	38.700041	-104.706755
87	1261	654	<b>PLG24 Maint*</b>	58.18	6	40	T	4	4	1	38.696831	-104.705127
87	1367	656	<b>PLG24 Maint*</b>	58.27	13	40	T	4	4	1	38.696549	-104.705038
87	1370	661	<b>R Prof 62</b>	-2.21	4	39	E	3	4	1	38.696538	-104.705035
88	5557		Up Milepost	88	0	43	T	0	0	1	38.685103	-104.703794
89	5269		Up Milepost	89	0	41	T	0	0	1	38.670697	-104.702377
89	901		Posted Speed	50	0	40	T	0	0	1	38.668233	-104.702135
89	2525		Posted Speed	55	0	41	E	0	0	1	38.663853	-104.701242
90	5280		Up Milepost	90	0	40	T	0	0	1	38.656638	-104.698389
90	2118		Posted Speed	45	0	42	T	0	0	1	38.651089	-104.696197
91	5239		Up Milepost	91	0	44	B	0	0	1	38.643418	-104.691554
91	542	710	<b>PLG24 Maint*</b>	58.00	1	45	C	4	4	1	38.641940	-104.691505

## Exception and Event List

Run ID: 2023100205

Milepost 5 to Milepost 605

Vehicle ID: DOTX 220

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
92	5279		Up Milepost	92	0	43	T	0	0	1	38.629102	-104.690184
92	3156	724	<b>L Runoff*</b>	1.62	31	42	T	3	4	1	38.620623	-104.688003
92	3246	727	<b>R Runoff*</b>	2.26	31	42	T	2	4	1	38.620384	-104.687924
92	3247	729	<b>L Runoff*</b>	2.53	31	42	T	2	4	1	38.620382	-104.687924
92	4474		Posted Speed	55	0	43	B	0	0	1	38.617175	-104.686652
93	5284		Up Milepost	93	0	43	T	0	0	1	38.615188	-104.685387
94	5238		Up Milepost	94	0	43	T	0	0	1	38.602344	-104.677193
95	5255		Up Milepost	95	0	44	T	0	0	1	38.589457	-104.668970
96	5247		Up Milepost	96	0	42	T	0	0	1	38.576997	-104.659801
97	5289		Up Milepost	97	0	41	T	0	0	1	38.563837	-104.652149
98	5246		Up Milepost	98	0	42	T	0	0	1	38.550416	-104.645552
99	5258		Up Milepost	99	0	42	T	0	0	1	38.536857	-104.639354
99	892	787	<b>L Runoff*</b>	2.20	31	41	T	2	4	1	38.534585	-104.638197
99	893	789	<b>R Runoff*</b>	2.03	31	42	T	2	4	1	38.534583	-104.638196
100	5272		Up Milepost	100	0	42	T	0	0	1	38.523432	-104.632520
100	4106	797	<b>L Cant POS*</b>	5.70	28	42	T	0	4	1	38.512974	-104.627207
101	5262		Up Milepost	101	0	42	T	0	0	1	38.510031	-104.625709
102	5278		Up Milepost	102	0	45	T	0	0	1	38.496254	-104.620068
103	5256		Up Milepost	103	0	44	T	0	0	1	38.482504	-104.614567
104	5254		Up Milepost	104	0	42	C	0	0	1	38.468730	-104.609203
105	5257		Up Milepost	105	0	43	T	0	0	1	38.454580	-104.605883
105	2537	812	<b>GWP Maint*</b>	0.81	1	41	T	4	4	1	38.447646	-104.605213
105	2618	813	<b>PLG24 Maint*</b>	58.17	4	41	T	4	4	1	38.447424	-104.605211
106	5269		Up Milepost	106	0	44	T	0	0	1	38.440159	-104.605677
107	5253		Up Milepost	107	0	44	C	0	0	1	38.425787	-104.606839
108	5288		Up Milepost	108	0	40	T	0	0	1	38.411492	-104.609928
108	667		Class Change	3	0	39	T	0	0	1	38.409689	-104.610318
108	667		Posted Speed	40	0	39	T	0	0	1	38.409689	-104.610318
108	2578		Class Change	4	0	37	T	0	0	1	38.404522	-104.611434
108	2578		Posted Speed	55	0	37	T	0	0	1	38.404522	-104.611434
108	3572	827	<b>R Prof 62</b>	-2.17	5	36	T	3	4	1	38.401835	-104.612014
108	3730	831	<b>L Runoff*</b>	2.24	31	36	T	2	4	1	38.401408	-104.612106
109	5241		Up Milepost	109	0	35	C	0	0	1	38.397376	-104.613290
110	5252		Up Milepost	110	0	42	T	0	0	1	38.384854	-104.622298
111	5235		Up Milepost	111	0	40	C	0	0	1	38.375969	-104.636270
112	5229		Up Milepost	112	0	42	E	0	0	1	38.362107	-104.640249
113	5278		Up Milepost	113	0	42	T	0	0	1	38.348572	-104.646761
113	2669		Posted Speed	50	0	42	T	0	0	1	38.341462	-104.648896
113	3725		Posted Speed	55	0	42	T	0	0	1	38.338615	-104.649570
114	5263		Up Milepost	114	0	42	C	0	0	1	38.334429	-104.650077
115	5237		Up Milepost	115	0	41	C	0	0	1	38.320827	-104.645144
116	5191		Up Milepost	116	0	23	T	0	0	1	38.306814	-104.648309
116	2957		Class Change	3	0	4	T	0	0	1	38.299093	-104.645688
116	2957		Posted Speed	40	0	4	T	0	0	1	38.299093	-104.645688
116	3715		Class Change	4	0	17	T	0	0	1	38.297229	-104.644525

## Exception and Event List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
116	3715		Posted Speed	55	0	17	T	0	0	1	38.297229	-104.644525
117	5360		Up Milepost	117	0	28	T	0	0	1	38.293182	-104.641998
118	5274		Up Milepost	118	0	20	T	0	0	1	38.280205	-104.633893
118	1590		Class Change	2	0	19	T	0	0	1	38.276293	-104.631451
118	1590		Posted Speed	20	0	19	T	0	0	1	38.276293	-104.631451
118	2829	921	<b>L Align 62</b>	-3.58	14	18	C	1	2	1	38.273492	-104.629082
118	2829	922	<b>R Align 62</b>	-3.63	13	18	C	1	2	1	38.273492	-104.629082
118	4375	926	<b>PLG24 Maint*</b>	58.04	1	18	T	2	2	1	38.271075	-104.624668
118	5142	935	<b>PLG24 Maint*</b>	58.25	7	17	E	2	2	1	38.269717	-104.622642
118	5245	936	<b>PLG24 Maint*</b>	58.08	2	18	T	2	2	1	38.269507	-104.622390
118	6105		Concrete Ties Start		0	16	T	0	0	1	38.267628	-104.620578
120	10414		Up Milepost	120	0	11	T	0	0	1	38.261948	-104.610855
120	121		Class Change	4	0	10	T	0	0	1	38.262052	-104.610455
120	121		Posted Speed	55	0	10	T	0	0	1	38.262052	-104.610455
120	2040		Subdivision	PUEBLO	0	9	T	0	0	1	38.263684	-104.604108
120	2602		Class Change	2	0	9	E	0	0	1	38.264075	-104.602220
120	2628		Posted Speed	15	0	9	E	0	0	1	38.264087	-104.602131
618	4333		Down Milepost	618	0	10	B	0	0	1	38.262194	-104.596889
618	4593		Class Change	4	0	11	C	0	0	1	38.262162	-104.595614
618	4593		Posted Speed	55	0	11	C	0	0	1	38.262162	-104.595614
617	1636		Down Milepost	617	0	20	T	0	0	1	38.262885	-104.591306
617	5261		Posted Speed	50	0	38	T	0	0	1	38.265914	-104.573413
616	5293		Down Milepost	616	0	38	T	0	0	1	38.265933	-104.573304
616	676		Posted Speed	55	0	39	C	0	0	1	38.266501	-104.571069
614	10566		Down Milepost	614	0	39	T	0	0	1	38.274583	-104.538338
613	5421		Down Milepost	613	0	37	T	0	0	1	38.275078	-104.519505
611	10836		Down Milepost	611	0	42	T	0	0	1	38.276187	-104.481832
611	2495		Track Change	5	0	38	T	0	0	5	38.276437	-104.473156
611	3608	1129	<b>PLG24 Maint*</b>	58.34	6	37	C	4	4	5	38.276213	-104.469300
610	5280		Down Milepost	610	0	37	T	0	0	5	38.275708	-104.463514
609	5293		Down Milepost	609	0	38	T	0	0	5	38.274111	-104.445211
608	5303		Down Milepost	608	0	31	T	0	0	5	38.272507	-104.426874
607	5279		Down Milepost	607	0	30	T	0	0	5	38.270908	-104.408621
606	5255		Down Milepost	606	0	26	T	0	0	5	38.269310	-104.390452
606	4533		Class Change	2	0	11	T	0	0	5	38.267514	-104.374869
606	4533		Posted Speed	25	0	11	T	0	0	5	38.267514	-104.374869
606	4795		Concrete Ties End		0	3	T	0	0	5	38.267329	-104.373987
605	4890		Down Milepost	605	0	3	T	0	0	5	38.267262	-104.373668
605	950		Class Change	3	0	5	T	0	0	5	38.266595	-104.370474
605	950		Posted Speed	30	0	5	T	0	0	5	38.266595	-104.370474
605	990		Track Change	6	0	5	T	0	0	6	38.266567	-104.370339
605	5205		End of Survey	End of Survey	0	0	T	0	0	6	38.263644	-104.356147

Notes:

\* Track Safety Advisory

+ Maximum curve speed is limited at qualified cant deficiency. However, actual cant deficiency does not exceed the 1-inch grace that may be allowed under 49 CFR 213.57(b) or 1/2-inch under 49 CFR 213.329(b).



Curve Analysis Section

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

Elevation: Positive (+) = L rail high; Negative (-) = R rail high    Curvature: Positive (+) = Curve to right; Negative (-) = Curve to left

Trk	Starting		Ending		Len		Average		Limiting Point				Total		Limiting Speed At					
							Curve	Elev	Curve		Elev				3"	4"	5"	6"	7"	8"
	MP	FT	MP	FT	Spd	Deg/Mi	Inches	MP	FT	Deg/Mi	Inches	FT	Grp							
1	6	4653	7	275	874	18	1/00	0.64	6	4861	1/04	0.58	0	0	69	78	86	93	100	107
1	7	2971	7	3640	670	23	-0/17	-0.76	7	3240	-0/22	-0.74	0	0	120	135	148	161	172	183
1	7	4590	7	4703	114	24	-0/17	-0.01	7	4646	-0/19	0.2	0	0	113	132	148	163	176	189
1	8	607	8	793	187	23	0/16	-0.03	8	667	0/17	-0.3	0	0	117	137	154	170	184	198
1	8	793	8	878	86	23	-0/16	0.03	8	820	-0/16	0.0	0	0	125	145	162	178	192	205
1	8	2974	8	3622	649	24	-1/04	-0.49	8	3249	-1/14	-0.56	0	0	64	72	80	86	93	99
1	9	763	9	1213	451	27	-0/53	-0.21	9	977	-0/57	-0.2	0	0	69	79	88	96	104	111
1	9	1599	9	2051	453	26	0/54	0.48	9	1795	0/58	0.41	0	0	70	80	89	97	104	111
1	9	5204	10	408	434	25	0/16	0.63	9	5220	0/17	0.61	0	0	135	153	169	183	197	209
1	10	1794	10	3063	1270	25	0/59	1.2	10	2142	1/02	0.68	0	0	71	80	88	95	102	109
1	10	4028	10	4274	247	23	-0/26	-0.23	10	4132	-0/32	-0.27	0	0	93	106	118	128	138	147
1	11	1252	11	2353	1102	22	-1/59	-0.73	11	1598	-2/01	-0.57	0	0	50	56	62	68	73	78
1	12	3283	12	4068	786	20	2/16	1.31	12	3776	2/18	1.18	0	0	50	56	61	66	71	75
1	12	5734	13	70	1037	22	0/58	1.37	12	6103	1/02	1.31	0	0	76	85	93	100	106	113
1	13	338	13	1100	763	24	-1/05	-0.55	13	634	-1/13	-0.17	0	0	61	70	78	85	91	98
1	13	1499	13	2636	1138	19	-0/58	-0.47	13	2148	-1/05	-0.54	0	0	68	77	85	92	99	105
1	13	4218	14	1609	2609	18	1/34	0.58	13	4871	2/08	0.45	0	0	48	54	60	65	70	75
1	14	2467	14	3013	547	20	-0/35	-0.67	14	2887	-0/38	-0.75	0	0	92	103	114	123	132	140
1	14	3482	15	1643	3476	19	-2/01	-0.85	14	3982	-2/02	-0.78	0	0	51	57	63	68	73	78
1	15	3728	15	5179	1452	21	-1/30	-0.78	15	4843	-1/35	-0.73	0	0	58	65	72	78	83	88
1	16	4113	17	249	1294	28	0/59	0.57	17	60	1/01	0.38	0	0	69	78	87	95	102	108
1	17	1852	17	2447	596	23	-0/59	-0.76	17	2205	-1/04	-0.85	0	0	72	80	88	96	102	109
1	17	4079	17	4775	697	18	-1/00	-0.65	17	4649	-1/01	-0.61	0	0	71	80	88	96	103	109
1	18	144	18	747	604	18	-1/35	-0.4	18	358	-1/41	-0.44	0	0	53	61	67	73	79	84
1	18	747	18	2283	1537	17	2/00	0.58	18	1685	2/05	0.49	0	0	48	55	61	66	71	76
1	18	2536	18	3831	1296	16	-2/01	-0.79	18	3122	-2/14	-0.86	0	0	49	55	61	66	70	75
1	18	4535	19	918	1642	20	0/58	1.17	18	4886	1/00	0.95	0	0	75	84	92	99	106	113
1	19	1597	19	2611	1015	18	-2/04	-0.91	19	1965	-2/08	-0.93	0	0	51	57	63	68	72	77
1	19	3727	20	334	1891	19	-2/02	-0.98	19	5025	-2/02	-0.84	0	0	51	58	63	69	74	78
1	20	441	20	3092	2652	20	2/01	0.57	20	2263	2/03	0.47	0	0	49	55	61	67	72	76
1	21	816	21	1735	920	18	-1/58	-1.0	21	1145	-2/01	-0.8	0	0	51	58	64	69	74	78
1	21	3470	21	4570	1101	17	3/18	0.94	21	3852	3/15	0.59	0	0	39	44	49	53	57	61
1	21	4570	22	97	814	17	-2/37	-0.98	21	5094	-2/39	-0.96	0	0	46	51	56	61	65	69
1	22	861	22	1514	654	18	-2/02	-0.75	22	1019	-2/08	-0.81	0	0	50	56	62	67	72	76
1	22	5154	23	1221	1337	17	2/05	0.38	23	772	2/09	0.3	0	0	46	53	59	64	69	74
1	23	1221	23	2175	955	15	-1/04	-0.15	23	2085	-1/01	0.79	0	0	55	67	76	85	93	100
1	23	2175	23	3098	924	15	3/01	0.64	23	2492	3/05	0.56	0	0	40	45	50	55	59	62
1	23	3098	24	113	2307	13	-4/02	-1.58	23	4699	-4/06	-1.5	0	0	39	43	47	51	54	57
1	24	3168	24	4085	918	16	-2/49	-1.26	24	3586	-2/54	-0.96	0	0	44	49	54	58	62	66
1	24	4085	25	33	1223	17	2/35	1.05	24	4895	2/44	0.96	0	0	45	50	55	60	64	68
1	25	275	25	1066	792	20	-1/05	-0.61	25	798	-1/11	-0.51	0	0	65	73	81	88	95	101
1	25	3686	25	3810	125	24	-0/18	0.3	25	3744	-0/20	0.5	0	0	103	123	139	154	167	180

Curve Analysis Section

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

Elevation: Positive (+) = L rail high; Negative (-) = R rail high    Curvature: Positive (+) = Curve to right; Negative (-) = Curve to left

Trk	Starting		Ending				Average		Limiting Point				Total		Limiting Speed At					
							Curve	Elev			Curve	Elev			FT	Grp	3"	4"	5"	6"
	MP	FT	MP	FT	Len	Spd	Deg/Mi	Inches	MP	FT	Deg/Mi	Inches								
1	25	5015	26	507	732	26	1/29	0.52	26	25	1/36	0.48	0	0	55	63	69	76	81	87
1	26	2521	26	3991	1471	28	2/59	1.74	26	3657	3/05	1.51	0	0	45	50	54	58	62	66
1	26	4183	27	151	1408	27	-3/01	-1.54	26	5270	-3/05	-1.28	0	0	44	49	53	58	61	65
1	28	1762	28	2608	847	22	2/00	1.26	28	2029	2/08	1.27	0	0	53	59	64	69	74	78
1	29	994	29	1759	766	22	2/41	0.84	29	1273	2/48	0.8	0	0	44	49	54	58	63	67
1	29	4256	29	5043	788	23	1/00	1.07	29	4477	1/05	1.2	0	0	74	82	90	97	104	110
1	30	1540	30	2465	926	25	3/01	0.33	30	1900	3/08	0.29	0	0	38	44	49	53	57	61
1	31	756	31	1566	811	21	-0/58	-1.25	31	945	-1/01	-1.17	0	0	76	85	93	100	107	113
1	31	3973	31	4691	719	23	2/46	0.42	31	4581	2/43	0.17	0	0	40	46	52	57	61	65
1	32	1483	32	2323	841	21	6/05	1.56	32	2092	6/10	1.47	0	0	32	35	38	41	44	46
1	32	2549	32	3443	895	20	-6/03	-1.56	32	3080	-6/04	-1.49	0	0	32	35	39	41	44	47
1	32	3830	32	4552	723	18	2/52	0.71	32	4318	2/55	0.64	0	0	42	47	52	57	61	65
1	33	556	33	1266	711	20	1/58	1.45	33	844	2/01	1.29	0	0	55	61	66	72	76	81
1	33	2488	33	3349	862	18	-1/01	-0.64	33	3108	-1/02	-0.5	0	0	69	78	86	94	101	108
1	37	1681	37	2407	727	19	1/25	0.74	37	1886	1/29	0.75	0	0	60	67	74	80	86	91
1	37	5092	38	940	1093	20	-2/05	-0.91	38	334	-2/10	-0.78	0	0	50	56	61	66	71	76
1	38	4795	39	404	879	19	-1/58	-0.72	38	5089	-2/01	-0.57	0	0	50	56	62	68	73	78
1	39	2707	39	3700	994	20	-2/59	-1.25	39	3371	-3/05	-1.07	0	0	43	48	53	57	61	64
1	40	1806	40	2605	800	19	-0/57	-0.9	40	2154	-1/01	-0.92	0	0	74	83	91	98	105	112
1	40	5175	41	228	311	18	2/43	0.93	41	201	2/43	0.8	0	0	44	50	55	59	64	68
1	41	228	41	1007	780	21	2/47	0.99	41	443	2/49	0.92	0	0	44	50	54	59	63	67
1	41	3759	41	4727	969	19	2/58	1.23	41	4309	3/01	1.23	0	0	44	49	54	58	62	66
1	42	4286	43	1663	2639	20	-2/30	-1.41	42	5204	-2/31	-1.08	0	0	48	53	58	63	67	71
1	43	4162	43	5051	890	19	2/57	1.23	43	4456	2/58	1.18	0	0	44	49	54	58	62	66
1	44	33	44	1089	1057	20	-2/52	-1.64	44	589	-2/56	-1.58	0	0	47	52	56	60	64	68
1	44	1324	44	2116	793	22	1/54	0.77	44	1848	1/58	0.77	0	0	52	58	64	70	75	79
1	45	1374	45	2450	1077	18	2/49	2.1	45	1694	2/50	1.82	0	0	49	54	58	62	66	70
1	35	1874	46	3340	1393	19	3/58	1.77	46	2194	3/58	1.02	0	0	38	42	46	50	53	56
1	47	1777	47	2442	666	19	1/55	0.79	47	2266	1/57	0.73	0	0	52	58	64	70	75	79
1	48	2459	48	2817	359	21	1/52	1.1	48	2620	1/57	1.11	0	0	54	61	66	72	77	81
1	48	4423	48	5260	838	18	-4/34	-1.05	48	4704	-4/26	-0.59	0	0	34	38	42	46	49	52
1	48	5260	49	963	970	20	3/54	0.56	49	193	3/56	0.33	0	0	34	39	43	47	51	54
1	49	963	50	943	1456	19	-2/02	-1.01	50	311	-2/07	-1.0	0	0	51	58	63	68	73	77
1	50	1035	50	1773	739	18	0/56	0.75	50	1198	1/00	0.67	0	0	72	81	89	97	104	111
1	50	2690	50	4436	1747	19	2/55	0.8	50	4029	2/58	0.69	0	0	42	47	52	56	60	64
1	50	4436	51	112	967	19	-3/01	-1.25	50	4660	-2/56	-0.68	0	0	42	47	52	56	61	64
1	51	112	51	1011	900	20	2/56	0.78	51	412	2/56	0.67	0	0	42	47	52	56	61	64
1	51	1011	51	2034	1024	15	-4/01	-1.16	51	1371	-4/07	-1.15	0	0	37	42	46	49	53	56
1	51	2743	51	3869	1127	11	3/53	1.06	51	3186	3/50	0.68	0	0	37	41	45	49	53	56
5	51	5322	52	1221	1223	15	-3/12	-1.13	52	368	-3/14	-0.94	0	0	41	46	51	55	59	62
5	52	1221	52	3404	2184	23	-4/56	-1.6	52	1433	-4/50	-1.27	0	0	35	39	43	46	49	52
5	52	3763	53	4	1478	24	3/03	1.12	52	4755	3/06	0.88	0	0	42	47	52	56	60	63

Curve Analysis Section

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

Elevation: Positive (+) = L rail high; Negative (-) = R rail high    Curvature: Positive (+) = Curve to right; Negative (-) = Curve to left

Trk	Starting		Ending				Average		Limiting Point				Total		Limiting Speed At					
							Curve	Elev			Curve	Elev								
	MP	FT	MP	FT	Len	Spd	Deg/Mi	Inches	MP	FT	Deg/Mi	Inches	FT	Grp	3"	4"	5"	6"	7"	8"
5	53	4	53	1402	1399	24	-5/04	-1.0	53	747	-5/05	-0.86	0	0	32	36	40	43	46	49
5	53	1402	53	2758	1357	24	3/59	1.57	53	2000	4/02	1.51	0	0	39	44	48	51	54	58
5	53	3116	53	3945	830	24	-3/55	-0.86	53	3385	-3/56	-0.59	0	0	36	40	45	48	52	55
5	53	3945	53	4745	801	25	4/08	0.27	53	4305	4/11	0.18	0	0	32	37	42	45	49	52
5	53	4745	54	684	1263	25	-5/53	-1.91	53	5075	-6/08	-1.8	0	0	33	36	39	42	45	47
5	54	684	54	2117	1434	25	3/01	1.0	54	1558	3/04	0.89	0	0	42	47	52	56	60	64
5	54	2117	54	3703	1587	24	4/34	0.85	54	2705	5/34	1.16	0	0	32	36	39	42	45	48
5	54	3703	54	5174	1472	25	-6/06	-2.23	54	4806	-6/07	-2.12	0	0	34	37	40	43	46	48
5	54	5174	55	615	718	24	3/59	0.86	55	447	4/01	0.84	0	0	37	41	45	49	52	56
5	55	615	55	2071	1457	22	3/00	1.14	55	1016	5/49	1.83	0	0	34	37	40	43	46	49
5	55	2348	55	3004	657	20	4/56	0.7	55	2751	4/57	0.7	0	0	32	36	40	43	47	50
5	55	3336	56	931	2814	18	-2/32	-1.13	55	4387	-2/34	-0.95	0	0	46	52	57	62	66	70
5	56	1151	56	2507	1357	19	3/58	0.58	56	2088	3/59	0.53	0	0	35	40	44	48	51	55
5	56	3294	56	4262	969	25	-4/01	-0.65	56	3884	-4/03	-0.66	518	-1	35	40	44	48	51	55
5	57	1383	57	1726	344	24	0/42	0.76	57	1725	0/43	0.77	0	0	87	97	107	116	125	132
5	57	1726	57	2523	798	25	3/58	0.63	57	2184	4/01	0.6	0	0	35	40	44	48	51	55
5	57	2952	57	3789	838	26	-3/05	-1.0	57	3342	-3/12	-0.95	0	0	42	47	51	55	59	63
5	58	202	58	2076	1875	24	2/02	0.79	58	424	2/04	0.72	0	0	50	57	62	68	73	77
5	58	2076	58	3757	1682	26	-2/55	-1.14	58	2683	-6/05	-1.07	0	0	30	34	37	40	43	46
5	58	3757	58	4407	651	25	5/52	0.77	58	4040	5/55	0.73	0	0	30	33	37	40	43	45
5	58	4407	59	343	1242	26	-6/07	-1.17	58	5183	-6/07	-1.11	0	0	30	34	37	40	43	46
5	59	343	59	1174	832	25	6/55	0.52	59	742	7/01	0.39	0	0	26	29	33	36	38	41
5	59	3044	59	3847	804	24	2/26	0.95	59	3418	2/28	0.93	0	0	47	53	58	63	67	71
5	59	4918	60	631	999	24	6/08	0.93	60	290	6/11	0.9	0	0	30	33	36	39	42	45
5	60	631	60	1613	983	25	-6/15	-0.94	60	1281	-6/16	-0.89	0	0	29	33	36	39	42	45
5	60	4006	61	704	1820	29	0/29	0.74	61	281	0/31	0.7	0	0	100	113	125	135	145	154
5	61	2374	61	3995	1622	29	-2/02	-1.45	61	3071	-2/04	-1.41	0	0	55	61	66	71	76	80
5	61	4785	62	646	703	28	4/05	1.05	62	321	4/10	1.07	0	0	37	41	45	49	52	55
5	62	746	62	2281	1536	29	2/34	0.91	62	1052	2/32	0.8	0	0	46	51	57	61	66	70
5	62	2281	62	3726	1446	29	-4/04	-1.17	62	3033	-4/05	-1.08	0	0	37	42	46	49	53	56
5	62	4210	63	372	1676	29	5/37	1.73	62	5054	5/43	1.62	0	0	33	37	40	43	46	49
5	63	750	63	2022	1273	28	-5/07	-1.7	63	1676	-5/12	-1.65	0	0	35	39	42	45	48	51
5	63	3018	63	3463	446	28	2/54	0.83	63	3222	2/56	0.73	0	0	42	47	52	57	61	65
5	63	4297	63	5168	872	28	3/05	0.5	63	4811	3/09	0.53	0	0	40	45	50	54	58	62
5	64	2418	64	3115	698	28	0/23	0.73	64	2627	0/27	0.57	0	0	106	120	132	144	155	164
5	64	4223	64	4726	504	28	0/46	0.66	64	4478	0/47	0.63	0	0	81	92	101	110	118	125
5	65	459	65	1267	809	30	-1/04	-0.95	65	911	-1/05	-0.98	0	0	72	80	88	95	102	108
5	65	3406	65	4542	1137	29	-3/09	-0.93	65	3927	-3/11	-0.86	0	0	41	46	51	55	59	63
5	66	588	66	1718	1131	28	-4/55	-1.04	66	1357	-4/56	-0.96	0	0	33	37	41	44	47	50
5	66	1718	66	2562	845	28	4/58	1.17	66	2058	5/02	1.06	0	0	33	37	41	44	47	50
5	67	1304	67	2495	1192	31	0/59	0.77	67	1600	1/01	0.65	0	0	71	81	89	97	104	110
5	68	336	68	1448	1113	30	3/31	0.78	68	731	4/18	0.74	0	0	35	39	43	47	50	53

Curve Analysis Section

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

Elevation: Positive (+) = L rail high; Negative (-) = R rail high    Curvature: Positive (+) = Curve to right; Negative (-) = Curve to left

Trk	Starting		Ending		Len		Average		Limiting Point				Total		Limiting Speed At					
							Curve	Elev	Curve		Elev				3"	4"	5"	6"	7"	8"
	MP	FT	MP	FT	Spd	Deg/Mi	Inches	MP	FT	Deg/Mi	Inches	FT	Grp							
5	68	1448	68	2229	782	30	3/24	0.86	68	1617	3/25	0.65	0	0	39	44	48	52	56	60
5	68	2399	68	3265	867	29	-3/58	-4.15	68	2819	-4/03	-4.21	0	0	50	53	56	60	62	65
5	69	3898	69	4704	807	43	-1/58	-1.0	69	4167	-2/00	-0.97	0	0	53	59	65	70	75	80
5	70	495	70	1724	1230	43	1/14	0.9	70	730	1/19	0.8	0	0	64	72	79	85	91	97
5	71	1620	71	2635	1016	43	-2/59	-1.8	71	2021	-3/05	-1.55	0	0	45	50	55	59	62	66
5	71	2729	71	3838	1110	42	3/29	2.79	71	3428	3/30	2.75	0	0	48	52	56	59	63	66
5	71	5098	71	6394	1297	42	-3/00	-2.46	71	5554	-3/05	-2.34	0	0	49	54	58	62	65	69
5	71	8400	71	9398	999	41	2/04	0.92	71	8670	2/02	0.73	0	0	51	57	63	68	73	78
5	73	504	73	1769	1266	40	-3/05	-2.24	73	840	-3/02	-2.06	0	0	48	53	57	61	65	68
5	73	2317	73	3097	781	38	2/33	1.92	73	2636	2/36	1.88	0	0	51	56	61	65	69	73
5	74	3316	74	3503	188	27	0/25	0.07	74	3502	0/26	0.07	0	0	101	116	129	142	153	163
5	74	3503	74	4421	919	29	2/40	1.91	74	3826	2/40	1.62	0	0	49	54	59	63	67	71
5	75	1305	75	2551	1247	27	-1/30	-0.63	75	2190	-1/32	-0.57	0	0	57	65	72	78	84	89
5	75	2779	75	3266	488	28	-3/07	-1.09	75	3087	-3/07	-0.88	0	0	42	47	51	56	60	63
5	75	3266	76	189	1918	30	-5/41	-1.73	75	4132	-5/47	-1.46	0	0	33	36	39	42	45	48
5	76	189	76	571	383	29	6/17	2.29	76	503	6/22	2.18	0	0	34	37	40	42	45	47
5	76	571	76	1012	442	29	6/29	2.49	76	658	6/38	2.58	0	0	34	37	40	42	45	47
5	76	1903	76	2691	789	31	1/49	0.98	76	2182	1/52	0.88	0	0	54	61	66	72	77	82
5	76	3109	76	3795	687	29	-1/03	-0.87	76	3412	-1/07	-0.79	0	0	69	78	86	93	100	106
5	77	979	77	1773	795	28	3/08	1.77	77	1302	3/19	1.66	0	0	44	49	53	57	61	64
5	77	3099	77	4053	955	26	-2/01	-0.75	77	3374	-2/04	-0.76	0	0	50	57	63	68	73	77
5	77	4328	77	5083	756	25	2/06	0.72	77	4632	2/11	0.65	0	0	48	55	60	65	70	75
5	78	64	78	941	878	23	1/31	0.89	78	390	1/40	0.74	0	0	56	63	70	75	81	86
5	78	2404	78	3068	665	25	1/55	0.83	78	2712	2/04	0.58	0	0	49	56	62	67	72	77
5	78	3253	78	4744	1492	25	-2/01	-0.72	78	4385	-2/02	-0.6	0	0	50	56	62	67	72	77
5	78	5027	79	584	787	30	1/52	1.34	79	399	1/50	0.98	0	0	55	62	68	73	78	83
5	79	2791	79	3760	970	35	4/00	2.1	79	3189	4/04	1.82	0	0	41	45	48	52	55	58
5	80	1978	80	3146	1169	20	-2/01	-0.94	80	2356	-2/05	-0.82	0	0	51	57	63	68	73	77
5	84	2054	84	2384	331	38	0/50	-0.16	84	2182	1/23	-0.27	0	0	52	61	69	76	83	89
5	84	2384	84	2700	317	39	1/26	-0.1	84	2467	1/34	-0.16	0	0	50	59	66	73	79	84
1	84	3057	84	3673	617	39	-1/07	-0.43	84	3230	-1/12	-0.37	0	0	63	72	79	87	93	99
1	84	5357	85	1393	1602	38	1/01	0.76	85	11	1/07	0.68	0	0	68	77	85	92	99	105
1	86	176	86	707	532	38	0/20	0.93	86	303	0/23	0.61	0	0	114	129	143	155	166	177
1	86	840	86	1348	509	38	-0/23	-0.62	86	1026	-0/26	-0.69	0	0	110	124	137	149	159	169
1	86	2151	86	2762	612	38	1/24	1.0	86	2353	1/30	0.93	0	0	61	68	75	81	86	92
1	86	3422	86	4113	692	36	-1/29	-1.56	86	3717	-1/32	-1.41	0	0	63	70	77	82	88	93
1	87	748	87	1969	1222	40	2/05	2.37	87	1367	2/11	2.24	0	0	58	63	68	73	77	81
1	89	1514	89	2361	848	41	-2/16	-1.94	89	1922	-2/16	-1.82	0	0	55	60	65	70	74	78
1	90	2370	90	3685	1316	44	-2/02	-0.74	90	3007	-2/08	-0.3	0	0	46	53	59	64	69	74
1	90	3685	90	4561	877	44	2/01	0.92	90	3878	2/02	0.78	0	0	51	57	63	69	73	78
1	90	4706	91	815	1349	45	3/04	3.23	91	489	2/59	2.99	0	0	53	57	61	65	69	72
1	91	1444	91	2328	885	44	-3/20	-2.64	91	1831	-3/23	-2.57	0	0	48	52	56	60	63	66

Curve Analysis Section

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

Elevation: Positive (+) = L rail high; Negative (-) = R rail high    Curvature: Positive (+) = Curve to right; Negative (-) = Curve to left

Trk	Starting		Ending		Len		Average		Limiting Point				Total		Limiting Speed At					
							Curve	Elev	Curve		Elev				3"	4"	5"	6"	7"	8"
	MP	FT	MP	FT	Spd	Deg/Mi	Inches	MP	FT	Deg/Mi	Inches	FT	Grp							
1	92	1680	92	2366	687	42	-0/58	-0.4	92	1986	-1/00	-0.33	0	0	68	78	87	95	102	109
1	92	3791	92	4678	888	43	-2/01	-1.08	92	4132	-2/05	-0.86	0	0	51	57	63	68	73	78
1	94	5168	95	460	548	44	-0/55	-1.07	95	186	-0/58	-1.23	0	0	78	87	95	103	110	116
1	96	1581	96	2476	896	43	1/29	1.71	96	1983	1/31	1.46	0	0	64	71	77	83	89	94
1	98	492	98	1152	661	44	0/59	0.82	98	782	1/05	0.67	0	0	69	78	86	93	100	106
1	98	2309	98	2989	681	45	-1/00	-1.04	98	2499	-1/01	-0.93	0	0	74	83	91	99	105	112
1	101	223	101	802	580	42	0/59	1.04	101	428	1/10	1.02	0	0	70	78	86	93	99	105
1	103	4488	103	5059	572	43	0/56	0.38	103	4661	1/04	0.47	0	0	68	77	85	92	99	106
1	104	3151	104	4121	971	42	1/00	0.82	104	3589	1/02	0.72	0	0	71	80	88	96	102	109
1	105	2090	105	3048	959	41	1/01	0.62	105	2684	1/07	0.51	0	0	66	75	83	91	97	104
1	106	4400	106	5227	828	44	0/59	0.91	106	5014	1/00	0.88	0	0	74	83	91	99	106	112
1	108	4158	109	1194	2278	38	0/59	1.39	108	4411	1/04	1.29	0	0	75	84	91	98	105	111
1	110	136	110	1955	1820	44	1/59	2.41	110	1318	2/04	2.34	0	0	60	66	71	75	80	84
1	110	3806	111	1603	3033	42	-2/01	-2.44	110	4862	-2/03	-2.17	0	0	60	65	70	75	79	84
1	111	3232	111	4908	1677	43	0/59	1.33	111	3459	1/02	1.05	0	0	74	83	91	98	105	111
1	113	144	113	1361	1218	43	-0/59	-1.15	113	370	-1/03	-1.11	0	0	74	83	91	98	105	111
1	113	4020	114	2117	3361	43	-1/16	-1.54	114	1317	-1/17	-1.22	0	0	68	76	83	89	95	101
1	114	2845	115	407	2800	43	1/29	1.78	115	141	1/31	1.31	0	0	63	70	77	83	88	93
1	115	4578	116	2362	2976	25	-1/20	-1.33	115	4870	-1/23	-0.79	0	0	62	70	77	83	89	95
1	118	1993	118	3206	1214	18	-3/06	-0.77	118	2864	-3/17	-0.48	0	0	38	44	48	53	57	60
1	118	4157	118	4530	374	17	2/31	-0.09	118	4375	2/38	-0.38	0	0	37	44	50	55	59	64
1	118	4860	118	5560	701	17	3/01	0.56	118	5171	3/06	0.56	0	0	40	45	50	54	59	62
1	118	6062	118	6701	640	16	10/04	0.63	118	6383	10/13	0.3	0	0	21	24	27	29	31	34
1	118	6701	118	7189	489	14	-3/41	-0.63	118	6920	-5/52	-0.74	0	0	30	33	37	40	43	46
1	118	7189	118	7599	411	16	-2/54	-0.68	118	7359	-3/56	-0.44	0	0	35	40	44	48	52	55
1	118	7599	118	8131	533	17	-3/36	-0.63	118	7783	-3/41	-0.57	0	0	37	42	46	50	54	57
1	118	8506	118	9228	723	17	-6/39	-0.88	118	9175	-6/38	-0.8	0	0	28	32	35	38	40	43
1	118	9228	118	9655	428	15	-7/35	-0.85	118	9397	-7/40	-0.81	0	0	26	29	32	35	38	40
1	120	1873	120	2146	274	9	2/24	1.31	120	1998	2/29	1.12	29	-1	48	54	59	63	68	72
1	120	2146	120	2308	163	7	-2/25	-0.23	120	2238	-2/31	0.17	24	-1	40	46	52	57	62	66
1	120	2308	120	2505	198	8	1/04	-0.41	120	2373	2/16	-0.2	20	-1	42	49	55	60	65	70
1	120	2505	120	3473	969	10	6/48	0.32	120	2757	6/55	-0.1	0	0	24	28	31	34	37	40
1	120	3876	618	4834	1068	11	-6/07	-0.89	120	4097	-6/56	-0.27	0	0	25	29	32	35	38	41
1	617	5182	616	687	799	39	-1/53	-2.17	616	246	-1/55	-2.18	0	0	62	67	73	78	82	87
1	616	5420	616	6585	1166	42	0/58	0.81	616	5732	1/02	0.55	0	0	69	79	87	94	101	108
1	616	10361	614	1282	1488	39	0/59	0.5	614	780	1/02	0.32	0	0	67	77	85	93	100	106
1	613	491	613	827	337	37	-0/31	-0.51	613	699	-0/36	-0.56	0	0	92	104	115	124	134	142
5	611	2199	611	3336	1138	38	0/59	1.04	611	2628	1/04	1.02	0	0	73	82	90	97	103	110
5	606	2932	606	4073	1142	25	0/56	1.17	606	3259	0/58	0.61	0	0	72	82	90	98	105	112
6	605	903	605	1177	187	1	-2/34	0.81	0	0	0/00	0.0	0	0	0	0	0	0	0	0
6	605	1177	605	1596	420	7	2/27	0.32	605	1370	2/34	0.2	0	0	42	48	53	58	63	67
6	605	1596	605	1947	352	9	-0/23	0.42	605	1698	-0/23	0.52	0	0	96	114	129	143	156	167

Elevation: Positive (+) = L rail high; Negative (-) = R rail high    Curvature: Positive (+) = Curve to right; Negative (-) = Curve to left

Trk	Starting		Ending				Average		Limiting Point				Total		Limiting Speed At					
							Curve	Elev			Curve	Elev								
	MP	FT	MP	FT	Len	Spd	Deg/Mi	Inches	MP	FT	Deg/Mi	Inches	FT	Grp	3"	4"	5"	6"	7"	8"
6	605	1596	605	1947	352	9	-0/23	0.42	605	1698	-0/23	0.52	0	0	96	114	129	143	156	167

Notes:

+ Maximum curve speed is limited at qualified cant deficiency. However, actual cant deficiency does not exceed the 1-inch grace that may be allowed under 49 CFR 213.57(b) or 1/2-inch under 49 CFR 213.329(b).

Exception Summary

Milepost 5 to Milepost 605

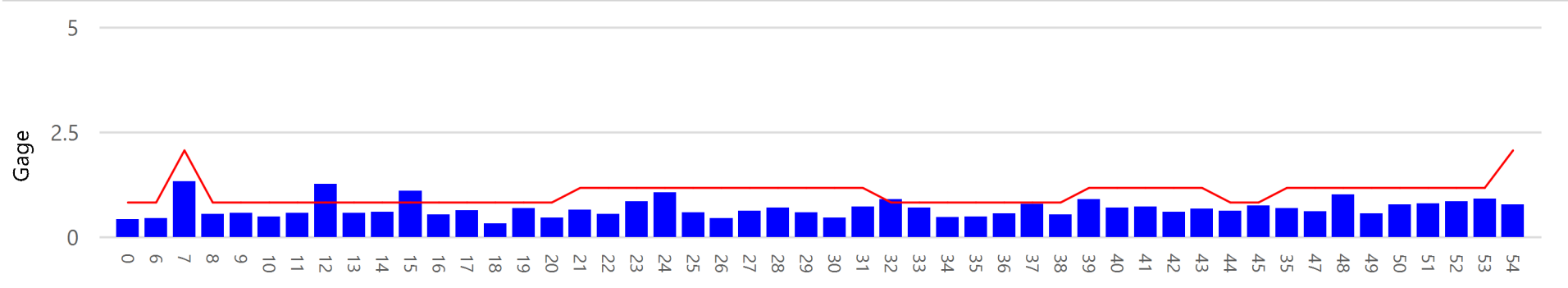
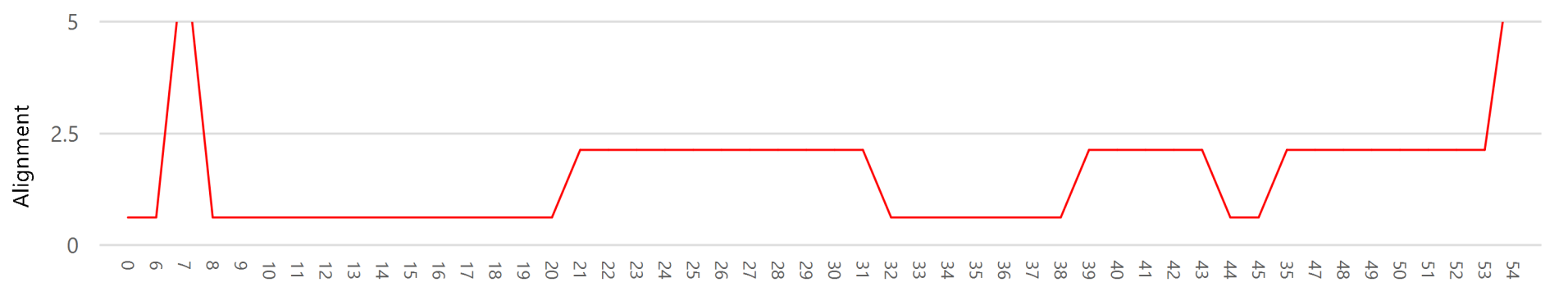
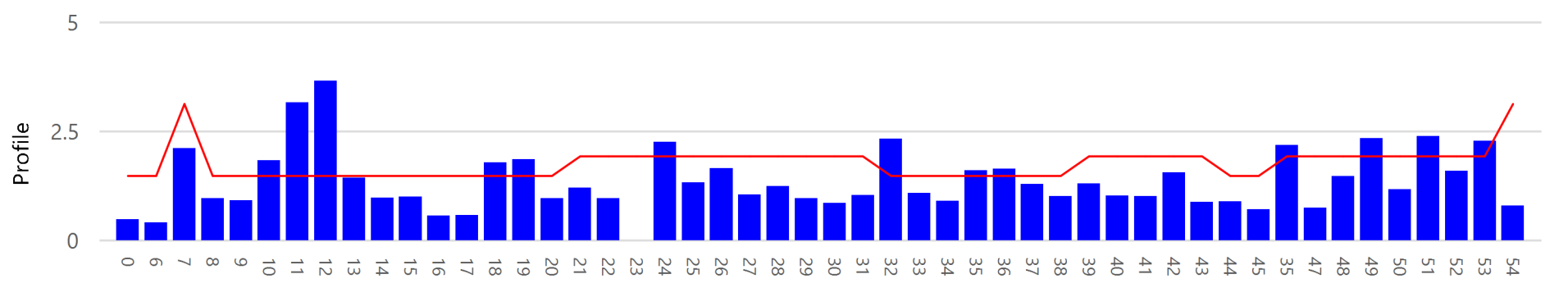
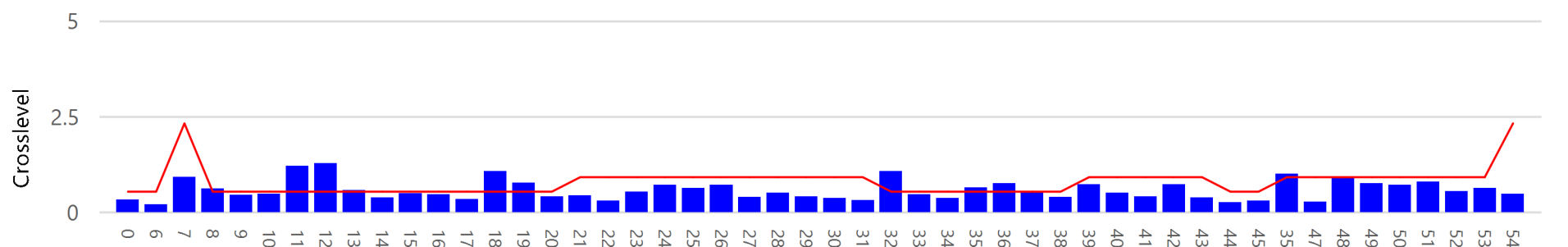
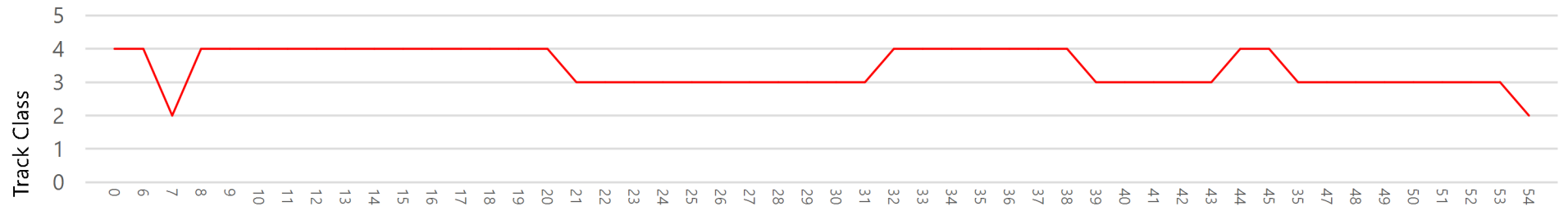
Denver, CO to Avondale, CO

MP	FT	Wide Gage			Tight Gage			Alignment			Crosslevel			Rockoff			Profile			Runoff		Warp			Twist-31			Lmt Spd			
		Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot Exc	LC	PC	Trk
12	5255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	-	1	-	-	-	-	1	5	-	-	3	4	1
19	5258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	2	4	1
35	5197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	2	4	1
37	5260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	3	4	1
63	5513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	2	3	5
84	2069	-	-	-	-	-	-	1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	5
87	4626	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	-	-	-	-	-	-	-	-	-	3	4	1
92	5279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-	-	-	-	2	4	1
99	5258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	2	4	1
108	2578	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	-	1	1	-	-	-	-	-	-	-	2	4	1
118	1590	-	-	-	-	-	-	2	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1
		-	-	-	-	-	-	3	38	-	-	-	-	-	-	-	5	17	-	10	7	-	-	-	2	8	-	-			

**Total Miles:** 127.90  
**Exceptions per 100 Miles:** 15.64  
**National Average Exceptions per 100 Miles for Prior 3 Years:** 5.80

Track Quality Index Section  
Milepost 5 to Milepost 605

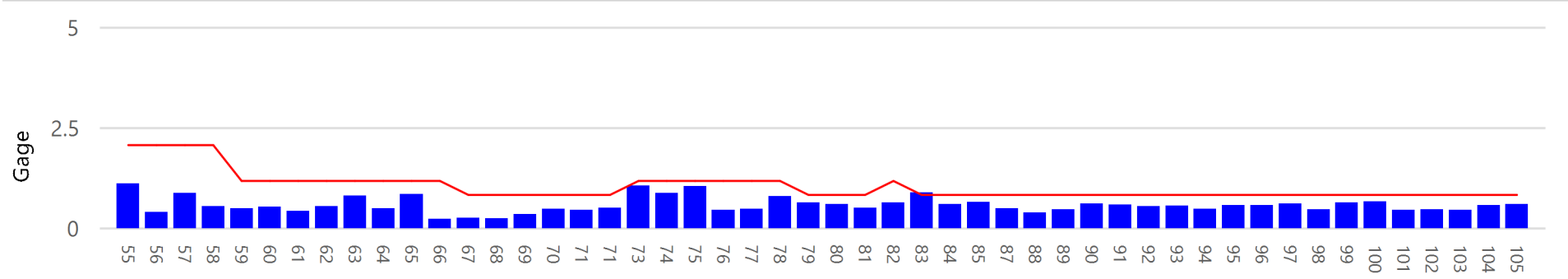
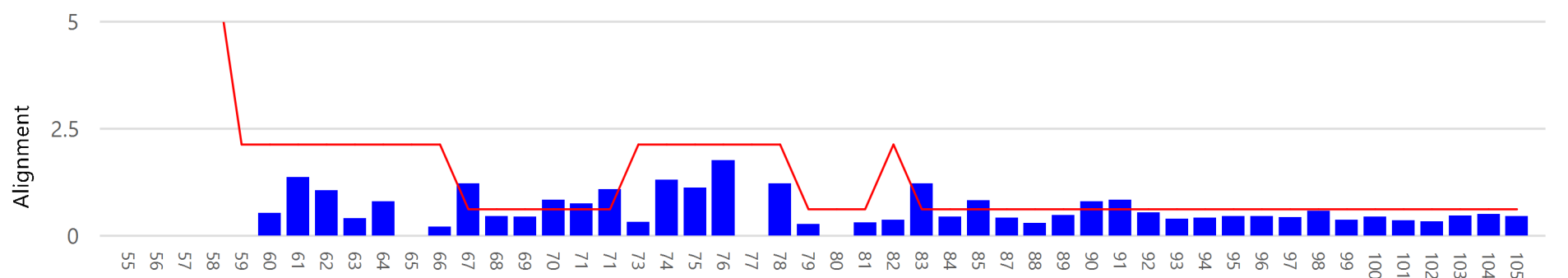
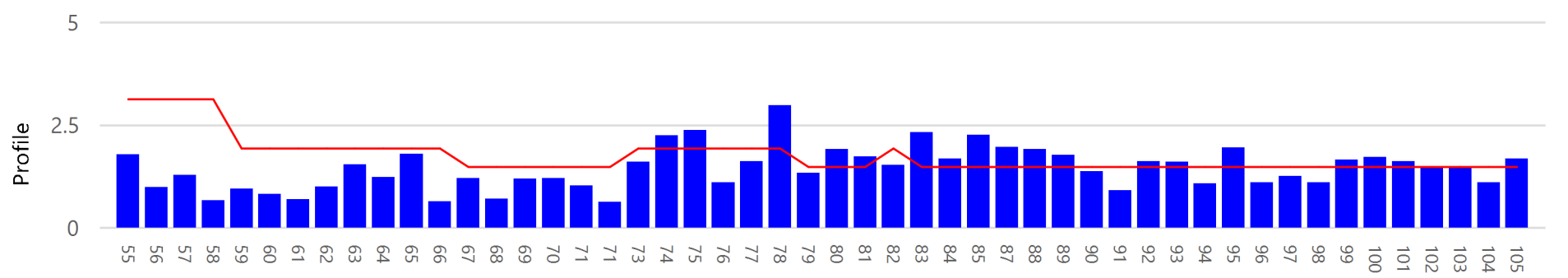
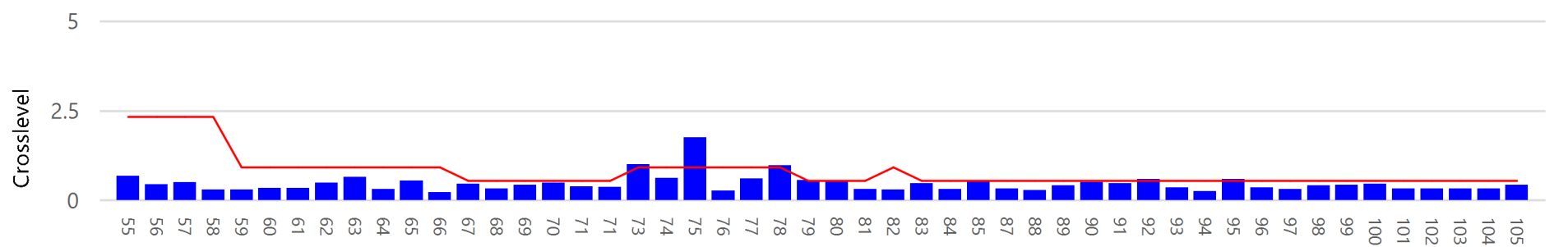
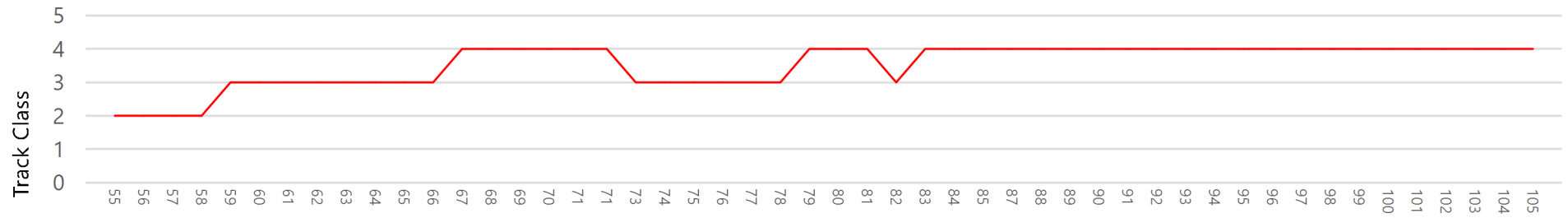
Denver, CO to Avondale, CO



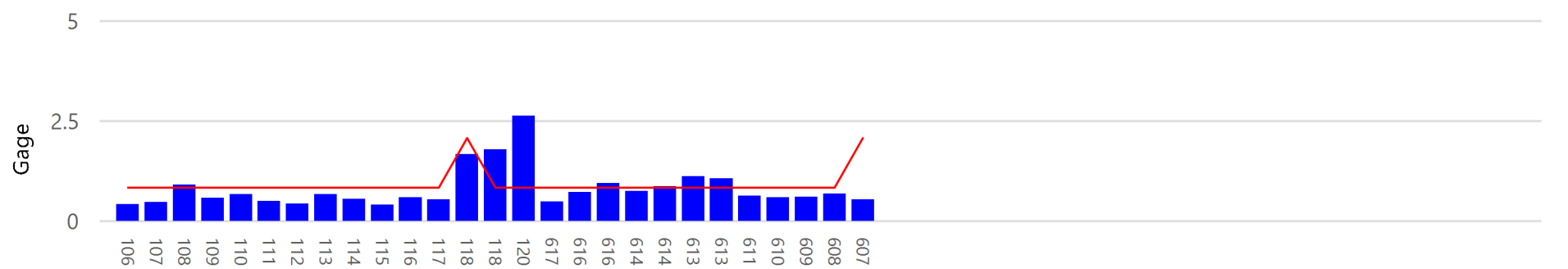
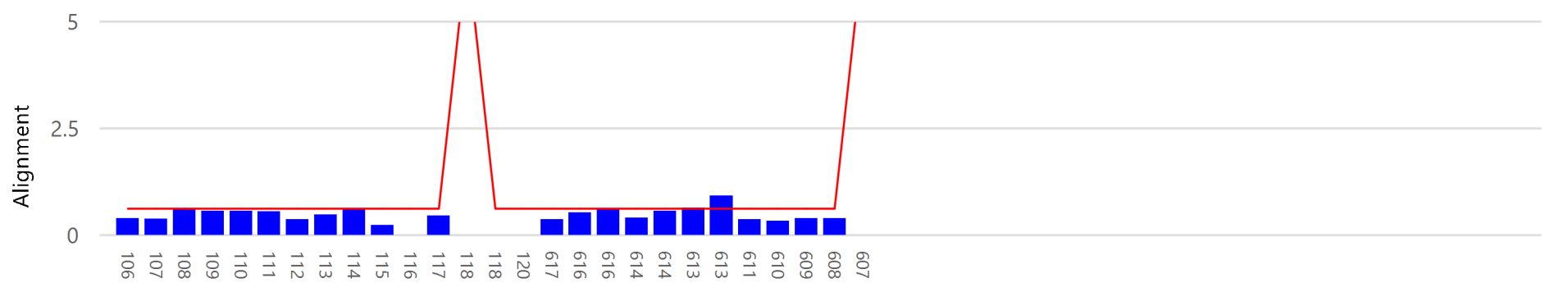
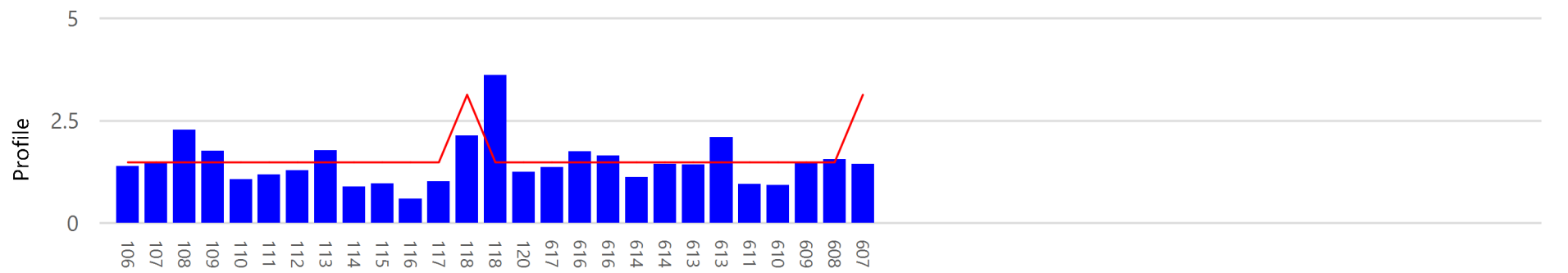
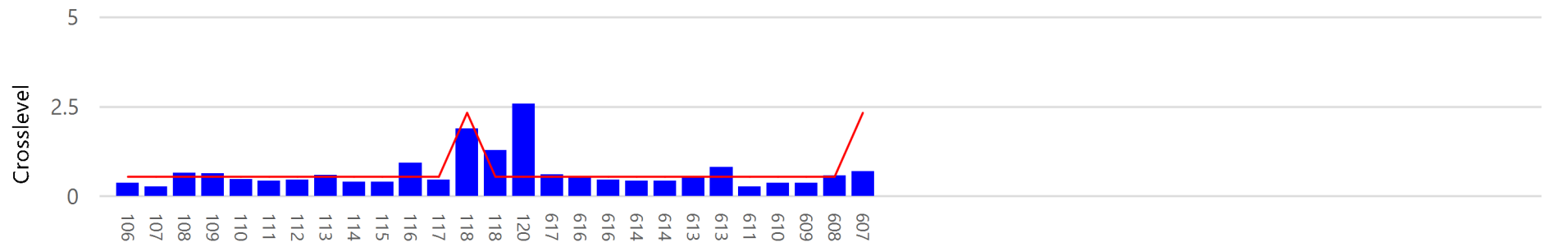
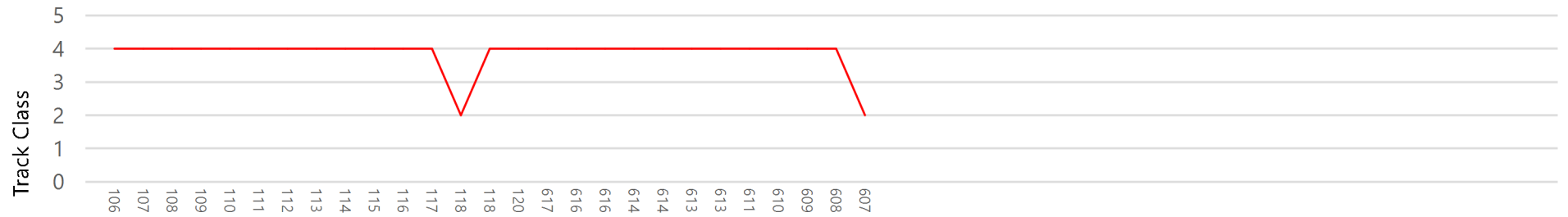


Track Quality Index Section  
Milepost 5 to Milepost 605

Denver, CO to Avondale, CO



Track Quality Index Section  
Milepost 5 to Milepost 605  
Denver, CO to Avondale, CO



## Class +1 Exception and Event List

Run ID: 2023100205

Milepost 5 to Milepost 605

Vehicle ID: DOTX 220

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
5	1584		Class Change	4	0	0	T	0	0	1		
5	1584		Track Change	1	0	0	T	0	0	1		
5	1		Up Milepost	5	0	0	T	0	0	1		
5	1584		State Line	CO	0	0	T	0	0	1		
5	1584		Subdivision	PIKES PEAK	0	0	T	0	0	1		
5	1584		Railroad	BNSF - BNSF RAILWAY CO.	0	0	T	0	0	1		
5	1584		Posted Speed	45	0	0	T	0	0	1		
5	1800		Concrete Ties Start		0	8	T	0	0	1	39.686927	-104.990706
6	3760		Up Milepost	6	0	16	T	0	0	1	39.677410	-104.993234
7	5251		Up Milepost	7	0	18	C	0	0	1	39.663302	-104.996921
7	3991		Class Change	2	0	24	T	0	0	1	39.652898	-105.001301
7	3991		Posted Speed	25	0	24	T	0	0	1	39.652898	-105.001301
7	4983		Concrete Ties End		0	23	B	0	0	1	39.650289	-105.002307
8	5224		Up Milepost	8	0	23	T	0	0	1	39.649656	-105.002553
8	913		Concrete Ties Start		0	23	T	0	0	1	39.647255	-105.003473
8	2404		Class Change	4	0	22	T	0	0	1	39.643340	-105.004969
8	2404		Posted Speed	45	0	22	T	0	0	1	39.643340	-105.004969
9	5332		Up Milepost	9	0	27	T	0	0	1	39.635528	-105.007336
9	1229		Concrete Ties End		0	27	B	0	0	1	39.632223	-105.008183
9	1613	57	<b>L Prof 62</b>	-1.43	5	26	B	4	5	1	39.631184	-105.008400
10	5229		Up Milepost	10	0	25	T	0	0	1	39.621476	-105.010993
10	2781		Concrete Ties Start		0	24	C	0	0	1	39.614112	-105.013508
10	3179		Concrete Ties End		0	24	C	0	0	1	39.613115	-105.014081
10	3325		Concrete Ties Start		0	24	C	0	0	1	39.612751	-105.014296
10	3647		Concrete Ties End		0	24	C	0	0	1	39.611948	-105.014772
10	4270	58	<b>R Align 62</b>	-0.74	3	23	E	4	5	1	39.610393	-105.015686
10	4753		Concrete Ties Start		0	21	T	0	0	1	39.609182	-105.016381
10	4764	59	<b>L Prof 62</b>	-1.47	9	21	T	4	5	1	39.609154	-105.016397
10	4765	60	<b>R Prof 62</b>	-1.38	4	21	T	4	5	1	39.609152	-105.016398
11	5253		Up Milepost	11	0	20	T	0	0	1	39.607929	-105.017096
11	3987	64	<b>R Prof 62</b>	-1.56	10	15	T	4	5	1	39.597446	-105.020635
12	5255		Up Milepost	12	0	14	T	0	0	1	39.593997	-105.021196
12	1043	93	<b>L Runoff*</b>	1.93	31	16	T	3	5	1	39.591158	-105.021660
12	2193	97	<b>L Prof 62</b>	-1.46	4	19	T	4	5	1	39.588029	-105.022169
12	2193	98	<b>R Prof 62</b>	-1.59	6	19	T	4	5	1	39.588029	-105.022169
12	2406	99	<b>L Prof 62</b>	-1.36	2	19	T	4	5	1	39.587449	-105.022261
12	4007	101	<b>Twist 31ft*</b>	1.14	15	20	E	3	5	1	39.583138	-105.023235
12	4015	102	<b>R Prof 62</b>	-1.53	9	20	E	4	5	1	39.583117	-105.023245
12	4035	103	<b>Twist 31ft*</b>	-1.02	10	20	E	3	5	1	39.583065	-105.023269
12	4972	105	<b>R Prof 62</b>	-1.57	9	20	T	4	5	1	39.580650	-105.024398
12	5173	108	<b>R Prof 62</b>	-2.11	12	20	T	3	5	1	39.580132	-105.024641
12	5174	109	<b>L Prof 62</b>	-2.17	12	20	T	3	5	1	39.580130	-105.024642
13	6700		Up Milepost	13	0	23	C	0	0	1	39.576264	-105.026698
13	4391		Concrete Ties End		0	15	T	0	0	1	39.564861	-105.031488
13	4870		Concrete Ties Start		0	14	B	0	0	1	39.563618	-105.032033

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
14	5217		Up Milepost	14	0	15	C	0	0	1	39.562771	-105.032590
14	1490	119	<b>L Prof 62</b>	-1.36	2	15	E	4	5	1	39.559692	-105.036015
14	1502		Concrete Ties End		0	15	C	0	0	1	39.559671	-105.036048
14	1876		Concrete Ties Start		0	17	E	0	0	1	39.559022	-105.037073
15	5314		Up Milepost	15	0	19	C	0	0	1	39.551995	-105.044825
15	1457		Concrete Ties End		0	18	C	0	0	1	39.548043	-105.044802
15	1742		Concrete Ties Start		0	19	E	0	0	1	39.547286	-105.044551
16	5181		Up Milepost	16	0	22	C	0	0	1	39.538397	-105.040700
16	3318		Class Change	4	0	28	T	0	0	1	39.530758	-105.034322
16	3318		Posted Speed	45	0	28	T	0	0	1	39.530758	-105.034322
17	5157		Up Milepost	17	0	28	C	0	0	1	39.526415	-105.031032
18	5304		Up Milepost	18	0	16	B	0	0	1	39.513317	-105.022948
18	2916		Concrete Ties End		0	15	B	0	0	1	39.506180	-105.018611
18	3128		Concrete Ties Start		0	14	B	0	0	1	39.505635	-105.018348
19	5258		Up Milepost	19	0	17	C	0	0	1	39.500621	-105.014499
19	1194		Concrete Ties End		0	17	E	0	0	1	39.497580	-105.012947
19	1378	142	<b>L Prof 62</b>	-1.45	2	18	T	4	5	1	39.497103	-105.012737
19	1428		Concrete Ties Start		0	18	T	0	0	1	39.496973	-105.012680
19	1430	144	<b>L Prof 62</b>	-1.91	16	18	T	4	5	1	39.496968	-105.012678
19	1431	143	<b>R Prof 62</b>	-1.76	18	18	T	4	5	1	39.496965	-105.012677
19	1464	146	<b>L Runoff*</b>	2.83	31	18	T	2	5	1	39.496880	-105.012639
19	1537	147	<b>R Prof 62</b>	-1.48	12	18	T	4	5	1	39.496690	-105.012555
19	1542	148	<b>L Prof 62</b>	-1.85	16	18	T	4	5	1	39.496677	-105.012550
19	3146		Concrete Ties End		0	21	T	0	0	1	39.492846	-105.009816
19	3307		Concrete Ties Start		0	21	T	0	0	1	39.492480	-105.009498
20	5283		Up Milepost	20	0	19	C	0	0	1	39.488659	-105.004679
20	1291		Class Change	3	0	19	E	0	0	1	39.486993	-105.000667
20	1291		Posted Speed	40	0	19	E	0	0	1	39.486993	-105.000667
20	2006		Class Change	4	0	20	C	0	0	1	39.485588	-104.998912
20	2006		Posted Speed	45	0	20	C	0	0	1	39.485588	-104.998912
20	3088		Concrete Ties End		0	18	C	0	0	1	39.482937	-104.997241
20	3311		Concrete Ties Start		0	18	E	0	0	1	39.482353	-104.997005
20	4928	154	<b>R Prof 62</b>	-1.93	18	19	T	4	5	1	39.478120	-104.995307
21	5297		Up Milepost	21	0	19	T	0	0	1	39.477155	-104.994921
21	3469		Class Change	3	0	14	T	0	0	1	39.468585	-104.989728
21	3469		Posted Speed	35	0	14	T	0	0	1	39.468585	-104.989728
22	5286		Up Milepost	22	0	15	C	0	0	1	39.463818	-104.988073
23	5269		Up Milepost	23	0	17	T	0	0	1	39.451072	-104.979391
23	1872		Class Change	2	0	14	C	0	0	1	39.446150	-104.977663
23	1872		Posted Speed	25	0	14	C	0	0	1	39.446150	-104.977663
23	2983		Concrete Ties End		0	15	C	0	0	1	39.443170	-104.976986
23	3158		Concrete Ties Start		0	14	C	0	0	1	39.442692	-104.977022
23	3399		Class Change	3	0	12	E	0	0	1	39.442030	-104.977012
23	3399		Posted Speed	35	0	12	E	0	0	1	39.442030	-104.977012
24	5291		Up Milepost	24	0	11	C	0	0	1	39.438492	-104.972786

## Class +1 Exception and Event List

Run ID: 2023100205

Milepost 5 to Milepost 605

Vehicle ID: DOTX 220

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
24	1878		Class Change	2	0	15	T	0	0	1	39.437422	-104.966293
24	1878		Posted Speed	25	0	15	T	0	0	1	39.437422	-104.966293
24	2513		Concrete Ties End		0	17	T	0	0	1	39.437060	-104.964097
24	2713		Concrete Ties Start		0	17	T	0	0	1	39.436946	-104.963406
24	3431		Class Change	3	0	16	T	0	0	1	39.436552	-104.960918
24	3431		Posted Speed	35	0	16	T	0	0	1	39.436552	-104.960918
24	5179		Posted Speed	40	0	18	C	0	0	1	39.436152	-104.954812
25	5274		Up Milepost	25	0	18	C	0	0	1	39.436059	-104.954500
25	942		Concrete Ties End		0	20	C	0	0	1	39.435218	-104.951353
26	5239		Up Milepost	26	0	26	T	0	0	1	39.432302	-104.936634
26	2301		Concrete Ties Start		0	26	T	0	0	1	39.429945	-104.929091
26	3442		Concrete Ties End		0	27	C	0	0	1	39.428375	-104.925642
26	3790	182	<b>L Runoff*</b>	1.64	31	27	E	3	4	1	39.427641	-104.924859
26	3807		Concrete Ties Start		0	28	C	0	0	1	39.427603	-104.924824
27	5439		Up Milepost	27	0	25	C	0	0	1	39.424522	-104.920782
27	264		Concrete Ties End		0	24	B	0	0	1	39.424232	-104.919927
28	5254		Up Milepost	28	0	23	T	0	0	1	39.418752	-104.903765
29	5242		Up Milepost	29	0	22	T	0	0	1	39.411304	-104.888047
30	5247		Up Milepost	30	0	23	C	0	0	1	39.400524	-104.875984
30	1306		Concrete Ties Start		0	26	T	0	0	1	39.397461	-104.873594
30	1491		Posted Speed	30	0	25	T	0	0	1	39.397027	-104.873255
30	2572		Concrete Ties End		0	22	E	0	0	1	39.394269	-104.871943
30	3967		Class Change	2	0	20	T	0	0	1	39.390520	-104.870978
30	3967		Posted Speed	25	0	20	T	0	0	1	39.390520	-104.870978
30	5098		Class Change	3	0	21	T	0	0	1	39.387479	-104.870194
30	5098		Posted Speed	30	0	21	T	0	0	1	39.387479	-104.870194
31	5433		Up Milepost	31	0	20	T	0	0	1	39.386579	-104.869962
31	3931		Class Change	2	0	22	T	0	0	1	39.376224	-104.866168
31	3931		Posted Speed	25	0	22	T	0	0	1	39.376224	-104.866168
31	5056		Class Change	3	0	22	T	0	0	1	39.373180	-104.865681
31	5056		Posted Speed	30	0	22	T	0	0	1	39.373180	-104.865681
32	5087		Up Milepost	32	0	22	T	0	0	1	39.373095	-104.865678
32	1520		Concrete Ties Start		0	19	T	0	0	1	39.368929	-104.865536
32	2225		Concrete Ties End		0	21	T	0	0	1	39.367123	-104.866259
32	2561		Concrete Ties Start		0	22	E	0	0	1	39.366381	-104.866961
32	3195	210	<b>L Runoff*</b>	1.78	31	18	E	3	4	1	39.364798	-104.867797
32	3198	211	<b>R Runoff*</b>	2.08	31	18	E	2	4	1	39.364790	-104.867798
32	3456		Posted Speed	40	0	18	C	0	0	1	39.364083	-104.867797
32	4491		Class Change	4	0	18	C	0	0	1	39.361260	-104.867994
32	4491		Posted Speed	45	0	18	C	0	0	1	39.361260	-104.867994
32	4711		Concrete Ties End		0	19	E	0	0	1	39.360672	-104.868165
33	5251		Up Milepost	33	0	20	T	0	0	1	39.359227	-104.868586
34	5309		Up Milepost	34	0	18	T	0	0	1	39.345391	-104.874295
35	5197		Up Milepost	35	0	19	T	0	0	1	39.331674	-104.879258
35	2108	221	<b>R Prof 62</b>	-1.40	5	16	T	4	5	1	39.326111	-104.881271

## Class +1 Exception and Event List

Run ID: 2023100205

Milepost 5 to Milepost 605

Vehicle ID: DOTX 220

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
35	4533	222	<b>R Prof 62</b>	-1.55	12	18	T	4	5	1	39.319710	-104.883586
35	4537	223	<b>Crosslevel</b>	1.20	9	18	T	4	5	1	39.319699	-104.883590
35	4558	225	<b>L Runoff*</b>	1.78	31	18	T	3	5	1	39.319644	-104.883609
35	4562	227	<b>R Runoff*</b>	2.63	31	18	T	2	5	1	39.319633	-104.883613
36	5259		Up Milepost	36	0	17	T	0	0	1	39.317794	-104.884278
36	676	229	<b>R Prof 62</b>	-1.77	9	17	T	4	5	1	39.316009	-104.884924
36	704	230	<b>L Prof 62</b>	1.54	10	17	T	4	5	1	39.315935	-104.884950
36	705	231	<b>R Prof 62</b>	1.75	11	17	T	4	5	1	39.315933	-104.884951
36	2286	232	<b>R Prof 62</b>	-1.47	8	15	T	4	5	1	39.311760	-104.886460
37	5260		Up Milepost	37	0	22	T	0	0	1	39.303909	-104.889296
37	2283	233	<b>L Align 62</b>	0.94	18	19	C	4	5	1	39.297915	-104.891598
37	2313	234	<b>L Align 31</b>	-0.68	7	19	E	4	5	1	39.297839	-104.891640
37	2314	235	<b>L Align 62</b>	-1.09	15	19	E	4	5	1	39.297837	-104.891642
37	2327	237	<b>Twist 31ft*</b>	-1.11	17	19	E	3	5	1	39.297804	-104.891660
37	2347	238	<b>L Prof 62</b>	-1.76	12	19	E	4	5	1	39.297754	-104.891688
37	2363	239	<b>Twist 31ft*</b>	0.88	3	20	E	4	5	1	39.297714	-104.891711
37	2378	240	<b>L Prof 62</b>	1.45	5	20	E	4	5	1	39.297676	-104.891733
38	5244		Up Milepost	38	0	17	T	0	0	1	39.290494	-104.895831
39	5269		Up Milepost	39	0	18	B	0	0	1	39.276222	-104.898455
39	2688		Class Change	3	0	19	T	0	0	1	39.268882	-104.897612
39	2688		Posted Speed	40	0	19	T	0	0	1	39.268882	-104.897612
39	3247	256	<b>Gage Wide</b>	57.75	15	20	C	3	4	1	39.267377	-104.897269
40	5244		Up Milepost	40	0	17	T	0	0	1	39.262395	-104.894350
41	5257		Up Milepost	41	0	17	T	0	0	1	39.249770	-104.885460
42	5261		Up Milepost	42	0	20	T	0	0	1	39.235637	-104.883853
42	4054		Concrete Ties Start		0	20	T	0	0	1	39.224863	-104.887366
43	5261		Up Milepost	43	0	18	C	0	0	1	39.221599	-104.887834
43	813		Concrete Ties End		0	19	C	0	0	1	39.219486	-104.886973
43	1239		Concrete Ties Start		0	16	C	0	0	1	39.218509	-104.886154
43	1858		Concrete Ties End		0	14	E	0	0	1	39.217283	-104.884648
44	5245		Up Milepost	44	0	19	E	0	0	1	39.210373	-104.876806
44	2043		Class Change	4	0	22	C	0	0	1	39.206180	-104.872125
44	2043		Posted Speed	45	0	22	C	0	0	1	39.206180	-104.872125
45	5251		Up Milepost	45	0	16	T	0	0	1	39.199164	-104.865309
46	5267		Up Milepost	35	0	15	T	0	0	1	39.186015	-104.858412
35	975		Class Change	3	0	16	T	0	0	1	39.183421	-104.857585
35	975		Posted Speed	35	0	16	T	0	0	1	39.183421	-104.857585
35	1232		Class Change	2	0	14	T	0	0	1	39.182737	-104.857366
35	1232		Posted Speed	25	0	14	T	0	0	1	39.182737	-104.857366
46	2037		Up Milepost	46	0	14	T	0	0	1	39.180593	-104.856695
46	2323	290	<b>R Runoff*</b>	2.21	31	15	C	2	3	1	39.180016	-104.856607
46	3502		Concrete Ties End		0	20	E	0	0	1	39.177023	-104.857942
46	5302		Class Change	3	0	18	T	0	0	1	39.172832	-104.861288
46	5302		Posted Speed	35	0	18	T	0	0	1	39.172832	-104.861288
47	3205		Up Milepost	47	0	18	T	0	0	1	39.172800	-104.861314

Class +1 Exception and Event List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
48	5240		Up Milepost	48	0	18	T	0	0	1	39.161502	-104.872611
48	4313		Posted Speed	30	0	17	T	0	0	1	39.152945	-104.883077
48	4573		Concrete Ties Start		0	17	T	0	0	1	39.152445	-104.883730
49	5266		Up Milepost	49	0	19	C	0	0	1	39.150782	-104.884859
50	1475		Up Milepost	50	0	18	B	0	0	1	39.147492	-104.887796
51	5290		Up Milepost	51	0	19	C	0	0	1	39.135699	-104.897769
51	4721		Concrete Ties End		0	8	T	0	0	1	39.126438	-104.908888
52	5323		Up Milepost	52	0	12	T	0	0	1	39.125510	-104.910640
52	37		Track Change	5	0	12	T	0	0	5	39.125453	-104.910747
52	419		Concrete Ties Start		0	12	B	0	0	5	39.124809	-104.911807
53	5236		Up Milepost	53	0	23	C	0	0	5	39.116001	-104.904649
54	5323		Up Milepost	54	0	25	B	0	0	5	39.109376	-104.888620
54	759	353	<b>Twist 31ft*</b>	1.36	10	24	B	2	4	5	39.109497	-104.885987
55	5276		Up Milepost	55	0	23	E	0	0	5	39.102113	-104.876237
55	2243		Class Change	2	0	21	C	0	0	5	39.096960	-104.873310
55	2243		Posted Speed	25	0	21	C	0	0	5	39.096960	-104.873310
56	5248		Up Milepost	56	0	12	C	0	0	5	39.089020	-104.874531
56	919		Concrete Ties End		0	17	C	0	0	5	39.086935	-104.872751
56	1150		Concrete Ties Start		0	17	E	0	0	5	39.086464	-104.872208
56	2664		Concrete Ties End		0	21	E	0	0	5	39.082626	-104.870768
56	2864		Concrete Ties Start		0	22	T	0	0	5	39.082078	-104.870805
57	5334		Up Milepost	57	0	25	T	0	0	5	39.075738	-104.868425
57	2419		Concrete Ties End		0	25	T	0	0	5	39.069697	-104.865048
57	2578		Concrete Ties Start		0	25	C	0	0	5	39.069263	-104.865019
58	5243		Up Milepost	58	0	24	T	0	0	5	39.062294	-104.862471
59	5305		Up Milepost	59	0	25	E	0	0	5	39.048965	-104.857296
59	1938		Concrete Ties End		0	25	T	0	0	5	39.045301	-104.852712
59	2055		Concrete Ties Start		0	24	T	0	0	5	39.045025	-104.852503
59	4945		Concrete Ties End		0	25	T	0	0	5	39.037806	-104.848453
59	5020		Concrete Ties Start		0	25	T	0	0	5	39.037609	-104.848376
60	5285		Up Milepost	60	0	24	B	0	0	5	39.036896	-104.848208
60	1675		Class Change	3	0	24	C	0	0	5	39.032490	-104.848546
60	1675		Posted Speed	30	0	24	C	0	0	5	39.032490	-104.848546
61	5121		Up Milepost	61	0	29	C	0	0	5	39.023772	-104.843886
62	4841		Up Milepost	62	0	27	T	0	0	5	39.011992	-104.836818
63	5513		Up Milepost	63	0	28	C	0	0	5	38.998277	-104.830975
63	2879	466	<b>L Prof 62</b>	-2.39	7	29	T	2	4	5	38.990940	-104.831962
64	5223		Up Milepost	64	0	29	C	0	0	5	38.984600	-104.831137
64	1772		Concrete Ties End		0	28	T	0	0	5	38.979807	-104.832148
64	1913		Concrete Ties Start		0	28	T	0	0	5	38.979425	-104.832229
64	3129		Concrete Ties End		0	28	C	0	0	5	38.976144	-104.832980
64	3340		Concrete Ties Start		0	28	C	0	0	5	38.975577	-104.833130
65	5567		Up Milepost	65	0	30	C	0	0	5	38.969632	-104.834905
65	3873		Concrete Ties End		0	28	B	0	0	5	38.959146	-104.836885
65	4002		Concrete Ties Start		0	28	T	0	0	5	38.958793	-104.836842

Class +1 Exception and Event List

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
66	5001		Up Milepost	66	0	28	T	0	0	5	38.956168	-104.835864
67	5321		Up Milepost	67	0	30	T	0	0	5	38.944275	-104.825624
68	5274		Up Milepost	68	0	30	T	0	0	5	38.931222	-104.817783
68	1572		Concrete Ties End		0	30	C	0	0	5	38.927062	-104.817145
68	1689		Concrete Ties Start		0	29	C	0	0	5	38.926761	-104.817288
68	2281		Class Change	4	0	29	E	0	0	5	38.925367	-104.818342
68	2281		Posted Speed	45	0	29	E	0	0	5	38.925367	-104.818342
68	4592		Concrete Ties End		0	31	T	0	0	5	38.919391	-104.820815
68	4651		Concrete Ties Start		0	31	T	0	0	5	38.919234	-104.820862
69	5278		Up Milepost	69	0	33	T	0	0	5	38.917560	-104.821361
69	1367		Concrete Ties End		0	37	T	0	0	5	38.913910	-104.822452
69	1615		Concrete Ties Start		0	38	T	0	0	5	38.913248	-104.822650
70	5285		Up Milepost	70	0	43	T	0	0	5	38.903371	-104.824882
70	2262		Concrete Ties End		0	42	C	0	0	5	38.897268	-104.826077
70	2532		Concrete Ties Start		0	42	C	0	0	5	38.896552	-104.826321
70	3657		Concrete Ties End		0	43	T	0	0	5	38.893572	-104.827339
70	3868		Concrete Ties Start		0	43	T	0	0	5	38.893013	-104.827528
70	4392		Concrete Ties End		0	44	T	0	0	5	38.891624	-104.828001
70	4532		Concrete Ties Start		0	43	T	0	0	5	38.891253	-104.828128
71	5271		Up Milepost	71	0	43	T	0	0	5	38.889296	-104.828797
71	7079		Concrete Ties End		0	42	T	0	0	5	38.870433	-104.832802
71	7389		Concrete Ties Start		0	42	T	0	0	5	38.869588	-104.832675
71	10511		Concrete Ties End		0	40	T	0	0	5	38.861099	-104.832991
73	10546		Up Milepost	73	0	40	T	0	0	5	38.861004	-104.833011
73	186		Concrete Ties Start		0	40	T	0	0	5	38.860501	-104.833117
73	3690		Concrete Ties End		0	35	T	0	0	5	38.851166	-104.831170
73	3947		Concrete Ties Start		0	34	T	0	0	5	38.850468	-104.831043
74	5123		Up Milepost	74	0	30	T	0	0	5	38.847276	-104.830458
74	2027		Concrete Ties End		0	29	T	0	0	5	38.841774	-104.829450
74	2230		Concrete Ties Start		0	28	T	0	0	5	38.841223	-104.829349
74	2498		Concrete Ties End		0	28	T	0	0	5	38.840496	-104.829216
74	2701		Concrete Ties Start		0	28	T	0	0	5	38.839945	-104.829116
74	3117		Concrete Ties End		0	27	T	0	0	5	38.838816	-104.828910
74	3512		Concrete Ties Start		0	27	T	0	0	5	38.837743	-104.828719
74	3650		Class Change	3	0	27	T	0	0	5	38.837366	-104.828668
74	3650		Posted Speed	30	0	27	T	0	0	5	38.837366	-104.828668
75	5771		Up Milepost	75	0	29	T	0	0	5	38.831653	-104.829909
75	2363		Concrete Ties End		0	26	C	0	0	5	38.825278	-104.831259
75	2571		Concrete Ties Start		0	26	C	0	0	5	38.824708	-104.831236
75	2922		Concrete Ties End		0	27	T	0	0	5	38.823745	-104.831186
75	3138		Concrete Ties Start		0	27	C	0	0	5	38.823157	-104.831111
75	3936		Concrete Ties End		0	29	B	0	0	5	38.821233	-104.829903
75	4116		Concrete Ties Start		0	29	C	0	0	5	38.820933	-104.829402
76	4994		Up Milepost	76	0	30	C	0	0	5	38.820615	-104.826440
76	558		Concrete Ties End		0	29	B	0	0	5	38.820859	-104.824515



## Class +1 Exception and Event List

Run ID: 2023100205

Milepost 5 to Milepost 605

Vehicle ID: DOTX 220

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
76	619	547	<b>Gage Wide</b>	57.67	7	29	B	3	4	5	38.820845	-104.824302
76	655	548	<b>Gage Wide</b>	57.67	10	29	B	3	4	5	38.820831	-104.824177
76	707		Concrete Ties Start		0	29	B	0	0	5	38.820805	-104.823998
76	1035		Concrete Ties End		0	30	C	0	0	5	38.820510	-104.822914
76	1175		Concrete Ties Start		0	30	E	0	0	5	38.820368	-104.822458
76	3192		Posted Speed	40	0	29	T	0	0	5	38.817939	-104.816127
76	3329		Concrete Ties End		0	29	T	0	0	5	38.817751	-104.815712
76	3445		Concrete Ties Start		0	28	T	0	0	5	38.817599	-104.815355
77	5269		Up Milepost	77	0	29	T	0	0	5	38.815435	-104.809591
78	5286		Up Milepost	78	0	23	T	0	0	5	38.807274	-104.794438
78	515		Class Change	2	0	23	B	0	0	5	38.806309	-104.793123
78	515		Posted Speed	25	0	23	B	0	0	5	38.806309	-104.793123
78	1251		Class Change	3	0	24	E	0	0	5	38.804749	-104.791487
78	1251		Posted Speed	40	0	24	E	0	0	5	38.804749	-104.791487
78	4859		Concrete Ties End		0	26	C	0	0	5	38.797219	-104.783452
79	5229		Up Milepost	79	0	28	T	0	0	5	38.796647	-104.782381
79	3123	603	<b>Gage Wide</b>	57.64	10	35	B	3	4	5	38.790683	-104.774539
79	3185	604	<b>Gage Wide</b>	57.66	4	35	C	3	4	5	38.790546	-104.774410
79	3313	605	<b>Gage Wide</b>	57.72	9	35	C	3	4	5	38.790250	-104.774170
79	3323	606	<b>Gage Wide</b>	57.62	3	35	C	3	4	5	38.790227	-104.774152
79	3392	607	<b>Gage Wide</b>	57.70	14	35	C	3	4	5	38.790059	-104.774038
79	3514	608	<b>Gage Wide</b>	57.79	12	35	E	1	4	5	38.789756	-104.773861
80	5260		Up Milepost	80	0	36	T	0	0	5	38.785227	-104.771875
80	3190		Class Change	4	0	21	C	0	0	5	38.777167	-104.767677
80	3190		Posted Speed	55	0	21	C	0	0	5	38.777167	-104.767677
81	5296		Up Milepost	81	0	19	T	0	0	5	38.772499	-104.763335
82	5209		Up Milepost	82	0	24	T	0	0	5	38.760955	-104.752591
83	5252		Up Milepost	83	0	41	T	0	0	5	38.749314	-104.741762
83	4329		Class Change	3	0	39	T	0	0	5	38.739718	-104.732837
83	4329		Posted Speed	40	0	39	T	0	0	5	38.739718	-104.732837
84	5235		Up Milepost	84	0	39	T	0	0	5	38.737710	-104.730969
84	1246		Class Change	4	0	39	T	0	0	5	38.734948	-104.728401
84	1246		Posted Speed	55	0	39	T	0	0	5	38.734948	-104.728401
84	2068	643	<b>L Align 62</b>	-0.77	3	38	B	4	5	5	38.733125	-104.726708
84	2068	644	<b>R Align 62</b>	-0.84	6	38	B	4	5	5	38.733125	-104.726708
84	2069		Class Change	3	0	38	T	0	0	5	38.733123	-104.726706
84	2069		Posted Speed	40	0	38	T	0	0	5	38.733123	-104.726706
84	2132	648	<b>L Align 62</b>	2.13	18	38	B	2	4	5	38.732982	-104.726577
84	2133	646	<b>Gage Wide</b>	57.72	5	38	B	3	4	5	38.732980	-104.726575
84	2721		Track Change	1	0	39	C	0	0	1	38.731620	-104.725469
84	2880		Class Change	4	0	39	C	0	0	1	38.731244	-104.725188
84	2880		Posted Speed	55	0	39	C	0	0	1	38.731244	-104.725188
85	5565		Up Milepost	85	0	36	T	0	0	1	38.725215	-104.719799
86	5297		Up Milepost	86	0	38	T	0	0	1	38.711921	-104.712394
86	2734	650	<b>R Runoff*</b>	1.30	31	38	T	4	5	1	38.704931	-104.708937

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
86	2879		Class Change	3	0	37	C	0	0	1	38.704549	-104.708798
86	2879		Posted Speed	40	0	37	C	0	0	1	38.704549	-104.708798
86	4364		Class Change	4	0	37	E	0	0	1	38.700702	-104.707114
86	4364		Posted Speed	55	0	37	E	0	0	1	38.700702	-104.707114
87	4626		Up Milepost	87	0	38	T	0	0	1	38.700041	-104.706755
87	1370	663	<b>R Prof 62</b>	-2.21	15	39	E	3	5	1	38.696538	-104.705035
87	1371	662	<b>L Prof 62</b>	-2.05	14	39	E	3	5	1	38.696536	-104.705034
87	1399	665	<b>L Prof 62</b>	1.69	12	40	E	4	5	1	38.696461	-104.705013
87	1401	664	<b>R Prof 62</b>	1.38	2	40	E	4	5	1	38.696455	-104.705011
88	5557		Up Milepost	88	0	43	T	0	0	1	38.685103	-104.703794
88	3023	679	<b>L Prof 62</b>	-1.38	3	44	T	4	5	1	38.676837	-104.702983
88	3023	680	<b>R Prof 62</b>	-1.42	4	44	T	4	5	1	38.676837	-104.702983
89	5269		Up Milepost	89	0	41	T	0	0	1	38.670697	-104.702377
89	901		Posted Speed	50	0	40	T	0	0	1	38.668233	-104.702135
89	986	682	<b>R Prof 62</b>	-1.63	13	40	T	4	5	1	38.668001	-104.702112
89	987	683	<b>L Prof 62</b>	-1.61	11	40	T	4	5	1	38.667998	-104.702112
89	2403	684	<b>R Prof 62</b>	-1.41	7	41	T	4	5	1	38.664173	-104.701368
89	2525		Posted Speed	55	0	41	E	0	0	1	38.663853	-104.701242
90	5280		Up Milepost	90	0	40	T	0	0	1	38.656638	-104.698389
90	2118		Posted Speed	45	0	42	T	0	0	1	38.651089	-104.696197
91	5239		Up Milepost	91	0	44	B	0	0	1	38.643418	-104.691554
92	5279		Up Milepost	92	0	43	T	0	0	1	38.629102	-104.690184
92	516	718	<b>Crosslevel</b>	-1.23	28	42	T	4	5	1	38.627707	-104.689882
92	3156	725	<b>L Runoff*</b>	1.62	31	42	T	3	5	1	38.620623	-104.688003
92	3159	726	<b>R Runoff*</b>	1.41	31	42	T	4	5	1	38.620615	-104.688001
92	3213	723	<b>L Prof 62</b>	-1.46	4	42	T	4	5	1	38.620472	-104.687953
92	3246	728	<b>R Runoff*</b>	2.26	31	42	T	2	5	1	38.620384	-104.687924
92	3247	730	<b>L Runoff*</b>	2.53	31	42	T	2	5	1	38.620382	-104.687924
92	3332	731	<b>Crosslevel</b>	1.14	5	42	T	4	5	1	38.620156	-104.687850
92	3348	732	<b>Crosslevel</b>	1.16	5	42	T	4	5	1	38.620113	-104.687836
92	4474		Posted Speed	55	0	43	B	0	0	1	38.617175	-104.686652
93	5284		Up Milepost	93	0	43	T	0	0	1	38.615188	-104.685387
93	2138	733	<b>L Prof 62</b>	-1.37	2	43	T	4	5	1	38.609946	-104.682042
94	5238		Up Milepost	94	0	43	T	0	0	1	38.602344	-104.677193
95	5255		Up Milepost	95	0	44	T	0	0	1	38.589457	-104.668970
95	1580	739	<b>R Prof 62</b>	-1.46	8	45	T	4	5	1	38.585695	-104.666232
95	1582	740	<b>L Prof 62</b>	-1.72	14	45	T	4	5	1	38.585690	-104.666228
95	3736	741	<b>R Prof 62</b>	-1.56	9	44	T	4	5	1	38.580580	-104.662453
96	5247		Up Milepost	96	0	42	T	0	0	1	38.576997	-104.659801
97	5289		Up Milepost	97	0	41	T	0	0	1	38.563837	-104.652149
97	2236	753	<b>R Prof 62</b>	-1.44	6	46	T	4	5	1	38.558117	-104.649337
97	2237	752	<b>L Prof 62</b>	-1.36	2	46	T	4	5	1	38.558114	-104.649336
98	5246		Up Milepost	98	0	42	T	0	0	1	38.550416	-104.645552
98	3100	785	<b>L Prof 62</b>	-1.64	12	45	T	4	5	1	38.542352	-104.642150
98	3100	786	<b>R Prof 62</b>	-1.78	17	45	T	4	5	1	38.542352	-104.642150

TGIR  
Class +1 Exception and Event List  
Milepost 5 to Milepost 605  
Denver, CO to Avondale, CO

Run Date: 10/02/2023  
Run ID: 2023100205  
Vehicle ID: DOTX 220

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
99	5258		Up Milepost	99	0	42	T	0	0	1	38.536857	-104.639354
99	892	788	<b>L Runoff*</b>	2.20	31	41	T	2	5	1	38.534585	-104.638197
99	893	790	<b>R Runoff*</b>	2.03	31	42	T	2	5	1	38.534583	-104.638196
100	5272		Up Milepost	100	0	42	T	0	0	1	38.523432	-104.632520
101	5262		Up Milepost	101	0	42	T	0	0	1	38.510031	-104.625709
101	3373	798	<b>L Prof 62</b>	-1.41	4	44	T	4	5	1	38.501238	-104.622059
102	5278		Up Milepost	102	0	45	T	0	0	1	38.496254	-104.620068
103	5256		Up Milepost	103	0	44	T	0	0	1	38.482504	-104.614567
103	1684	803	<b>L Prof 62</b>	-1.77	12	43	T	4	5	1	38.478098	-104.612805
103	1684	802	<b>R Prof 62</b>	-1.79	11	43	T	4	5	1	38.478098	-104.612805
104	5254		Up Milepost	104	0	42	C	0	0	1	38.468730	-104.609203
105	5257		Up Milepost	105	0	43	T	0	0	1	38.454580	-104.605883
106	5269		Up Milepost	106	0	44	T	0	0	1	38.440159	-104.605677
107	5253		Up Milepost	107	0	44	C	0	0	1	38.425787	-104.606839
107	4659	819	<b>L Prof 62</b>	-1.40	4	41	T	4	5	1	38.413191	-104.609561
107	4661	820	<b>R Prof 62</b>	-1.48	8	41	T	4	5	1	38.413186	-104.609563
108	5288		Up Milepost	108	0	40	T	0	0	1	38.411492	-104.609928
108	667		Class Change	3	0	39	T	0	0	1	38.409689	-104.610318
108	667		Posted Speed	40	0	39	T	0	0	1	38.409689	-104.610318
108	2578		Class Change	4	0	37	T	0	0	1	38.404522	-104.611434
108	2578		Posted Speed	55	0	37	T	0	0	1	38.404522	-104.611434
108	3571	828	<b>L Prof 62</b>	-1.89	15	36	T	4	5	1	38.401837	-104.612014
108	3572	829	<b>R Prof 62</b>	-2.17	18	36	T	3	5	1	38.401835	-104.612014
108	3698	830	<b>L Prof 62</b>	-1.51	7	35	T	4	5	1	38.401494	-104.612087
108	3730	832	<b>L Runoff*</b>	2.24	31	36	T	2	5	1	38.401408	-104.612106
109	5241		Up Milepost	109	0	35	C	0	0	1	38.397376	-104.613290
109	3436	835	<b>R Runoff*</b>	1.59	31	40	T	3	5	1	38.389138	-104.619070
109	3501	836	<b>R Prof 62</b>	-1.88	13	40	T	4	5	1	38.388986	-104.619186
110	5252		Up Milepost	110	0	42	T	0	0	1	38.384854	-104.622298
111	5235		Up Milepost	111	0	40	C	0	0	1	38.375969	-104.636270
112	5229		Up Milepost	112	0	42	E	0	0	1	38.362107	-104.640249
112	2105	841	<b>Crosslevel</b>	-1.13	6	41	T	4	5	1	38.356708	-104.642845
112	4305	842	<b>L Prof 62</b>	-1.47	10	43	T	4	5	1	38.351067	-104.645562
112	4305	843	<b>R Prof 62</b>	-1.57	13	43	T	4	5	1	38.351067	-104.645562
113	5278		Up Milepost	113	0	42	T	0	0	1	38.348572	-104.646761
113	2287	849	<b>L Prof 62</b>	-1.43	3	43	T	4	5	1	38.342492	-104.648651
113	2669		Posted Speed	50	0	42	T	0	0	1	38.341462	-104.648896
113	3725		Posted Speed	55	0	42	T	0	0	1	38.338615	-104.649570
114	5263		Up Milepost	114	0	42	C	0	0	1	38.334429	-104.650077
115	5237		Up Milepost	115	0	41	C	0	0	1	38.320827	-104.645144
116	5191		Up Milepost	116	0	23	T	0	0	1	38.306814	-104.648309
116	2957		Class Change	3	0	4	T	0	0	1	38.299093	-104.645688
116	2957		Posted Speed	40	0	4	T	0	0	1	38.299093	-104.645688
116	3715		Class Change	4	0	17	T	0	0	1	38.297229	-104.644525
116	3715		Posted Speed	55	0	17	T	0	0	1	38.297229	-104.644525

## Class +1 Exception and Event List

Run ID: 2023100205

Milepost 5 to Milepost 605

Vehicle ID: DOTX 220

Denver, CO to Avondale, CO

MP	FT	SEQ#	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
117	5360		Up Milepost	117	0	28	T	0	0	1	38.293182	-104.641998
117	3923	892	<b>R Prof 62</b>	1.43	8	26	T	4	5	1	38.283529	-104.635970
118	5274		Up Milepost	118	0	20	T	0	0	1	38.280205	-104.633893
118	1590		Class Change	2	0	19	T	0	0	1	38.276293	-104.631451
118	1590		Posted Speed	20	0	19	T	0	0	1	38.276293	-104.631451
118	2789	919	<b>L Align 62</b>	2.63	20	17	C	2	3	1	38.273563	-104.629187
118	2791	920	<b>R Align 62</b>	2.83	22	17	C	2	3	1	38.273559	-104.629182
118	2829	923	<b>L Align 62</b>	-3.58	28	18	C	1	3	1	38.273492	-104.629082
118	2829	924	<b>R Align 62</b>	-3.63	28	18	C	1	3	1	38.273492	-104.629082
118	6105		Concrete Ties Start		0	16	T	0	0	1	38.267628	-104.620578
120	10414		Up Milepost	120	0	11	T	0	0	1	38.261948	-104.610855
120	121		Class Change	4	0	10	T	0	0	1	38.262052	-104.610455
120	121		Posted Speed	55	0	10	T	0	0	1	38.262052	-104.610455
120	2040		Subdivision	PUEBLO	0	9	T	0	0	1	38.263684	-104.604108
120	2602		Class Change	2	0	9	E	0	0	1	38.264075	-104.602220
120	2628		Posted Speed	15	0	9	E	0	0	1	38.264087	-104.602131
618	4333		Down Milepost	618	0	10	B	0	0	1	38.262194	-104.596889
618	4593		Class Change	4	0	11	C	0	0	1	38.262162	-104.595614
618	4593		Posted Speed	55	0	11	C	0	0	1	38.262162	-104.595614
617	1636		Down Milepost	617	0	20	T	0	0	1	38.262885	-104.591306
617	5261		Posted Speed	50	0	38	T	0	0	1	38.265914	-104.573413
616	5293		Down Milepost	616	0	38	T	0	0	1	38.265933	-104.573304
616	676		Posted Speed	55	0	39	C	0	0	1	38.266501	-104.571069
616	986	1113	<b>Crosslevel</b>	-1.14	14	39	T	4	5	1	38.266817	-104.570068
614	10566		Down Milepost	614	0	39	T	0	0	1	38.274583	-104.538338
613	5421		Down Milepost	613	0	37	T	0	0	1	38.275078	-104.519505
611	10836		Down Milepost	611	0	42	T	0	0	1	38.276187	-104.481832
611	1848	1128	<b>L Align 62</b>	-1.11	19	41	T	4	5	1	38.276381	-104.475407
611	1849	1127	<b>R Align 62</b>	-1.09	12	41	T	4	5	1	38.276382	-104.475403
611	2495		Track Change	5	0	38	T	0	0	5	38.276437	-104.473156
611	4319	1135	<b>R Prof 62</b>	-1.56	10	37	T	4	5	5	38.275998	-104.466838
610	5280		Down Milepost	610	0	37	T	0	0	5	38.275708	-104.463514
609	5293		Down Milepost	609	0	38	T	0	0	5	38.274111	-104.445211
608	5303		Down Milepost	608	0	31	T	0	0	5	38.272507	-104.426874
607	5279		Down Milepost	607	0	30	T	0	0	5	38.270908	-104.408621
606	5255		Down Milepost	606	0	26	T	0	0	5	38.269310	-104.390452
606	4533		Class Change	2	0	11	T	0	0	5	38.267514	-104.374869
606	4533		Posted Speed	25	0	11	T	0	0	5	38.267514	-104.374869
606	4795		Concrete Ties End		0	3	T	0	0	5	38.267329	-104.373987
605	4890		Down Milepost	605	0	3	T	0	0	5	38.267262	-104.373668
605	950		Class Change	3	0	5	T	0	0	5	38.266595	-104.370474
605	950		Posted Speed	30	0	5	T	0	0	5	38.266595	-104.370474
605	990		Track Change	6	0	5	T	0	0	6	38.266567	-104.370339
605	5205		End of Survey	End of Survey	0	0	T	0	0	6	38.263644	-104.356147

Notes:

\* Track Safety Advisory

+ Maximum curve speed is limited at qualified cant deficiency. However, actual cant deficiency does not exceed the 1-inch grace that may be allowed under 49 CFR 213.57(b) or 1/2-inch under 49 CFR 213.329(b).

Class + 1 Exception Summary

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	Wide Gage			Tight Gage			Alignment			Crosslevel			Rockoff			Profile			Runoff		Warp			Twist-31			Lmt Spd		
		Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot Exc	LC	PC
9	5332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	-	-	-	-	-	-	-	-	-	-	4	5	1
10	5229	-	-	-	-	-	-	1	3	-	-	-	-	-	-	2	13	-	-	-	-	-	-	-	-	-	-	4	5	1
11	5253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10	-	-	-	-	-	-	-	-	-	-	4	5	1
12	5255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	54	2	1	1	-	-	-	2	25	2	-	3	5	1
14	5217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	4	5	1
19	5258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	64	-	1	1	-	-	-	-	-	-	-	2	5	1
20	2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	18	-	-	-	-	-	-	-	-	-	-	4	5	1
26	5239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	3	4	1
32	5087	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	2	4	1
35	5197	-	-	-	-	-	-	-	-	-	1	9	-	-	-	2	17	-	2	2	-	-	-	-	-	-	-	2	5	1
36	5259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	38	-	-	-	-	-	-	-	-	-	-	4	5	1
37	5260	-	-	-	-	-	-	3	40	-	-	-	-	-	-	2	17	-	-	-	-	-	-	2	20	1	-	3	5	1
39	2688	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	1
46	2037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	3	1
54	5323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10	1	-	2	4	5	
63	5513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	1	-	-	-	-	-	-	-	-	-	2	4	5
76	4994	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	5
79	5229	6	52	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	5
84	1246	-	-	-	-	-	-	2	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	5
84	2069	1	5	-	-	-	-	1	18	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	5
86	5297	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	4	5	1
87	4626	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	43	2	-	-	-	-	-	-	-	-	-	3	5	1
88	5557	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7	-	-	-	-	-	-	-	-	-	-	4	5	1
89	5269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	31	-	-	-	-	-	-	-	-	-	-	4	5	1
92	5279	-	-	-	-	-	-	-	-	-	3	38	-	-	-	1	4	-	4	3	-	-	-	-	-	-	-	2	5	1
93	5284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	4	5	1
95	5255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	31	-	-	-	-	-	-	-	-	-	-	4	5	1
97	5289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8	-	-	-	-	-	-	-	-	-	-	4	5	1
98	5246	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	29	-	-	-	-	-	-	-	-	-	-	4	5	1
99	5258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	2	5	1
101	5262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	-	-	-	-	-	-	-	-	-	4	5	1
103	5256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	23	-	-	-	-	-	-	-	-	-	-	4	5	1
107	5253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	12	-	-	-	-	-	-	-	-	-	-	4	5	1
108	2578	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	40	1	1	1	-	-	-	-	-	-	-	2	5	1
109	5241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	13	-	1	1	-	-	-	-	-	-	-	3	5	1
112	5229	-	-	-	-	-	-	-	-	-	1	6	-	-	-	2	23	-	-	-	-	-	-	-	-	-	-	4	5	1
113	5278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	4	5	1
117	5360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	-	-	-	-	-	-	-	-	-	-	4	5	1
118	1590	-	-	-	-	-	-	4	98	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	1
616	5293	-	-	-	-	-	-	-	-	-	1	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	1
611	10836	-	-	-	-	-	-	2	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	1

Class + 1 Exception Summary

Milepost 5 to Milepost 605

Denver, CO to Avondale, CO

MP	FT	Wide Gage			Tight Gage			Alignment			Crosslevel			Rockoff			Profile			Runoff		Warp			Twist-31			Lmt Spd						
		Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot EXC	Exc FT	2 Cl Drp	Tot Exc	LC	PC	Trk			
611	2495	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	5
		10	89	1	-	-	-	13	199	3	6	67	-	-	-	-	59	536	6	17	12	-	-	-	5	55	4	-						

**Total Miles: 127.90**

**Exceptions per 100 Miles: 86.00**

**National Average Exceptions per 100 Miles for Prior 3 Years: 5.80**

TGIR  
GRMS Exception Report  
Milepost 5 to Milepost 605  
Denver, CO to Avondale, CO

Run Date: 10/02/2023  
Run ID: 2023100205  
Vehicle ID: DOTX 220

MP	FT	Parameter	Value	Length	UGage	LGage	PLG	GW	Latitude	Longitude
31	4079	PLG24 Maint*	58.01	1	56.98	57.54	58.01	0.58	39.37583889	-104.86601343
31	4150	PLG24 Maint*	58.18	4	56.97	57.58	58.18	0.69	39.37565113	-104.86594712
31	4344	PLG24 Maint*	58.15	3	57.15	57.69	58.15	0.57	39.37513014	-104.86580999
31	4349	PLG24 Maint*	58.02	1	56.99	57.57	58.02	0.58	39.37511656	-104.86580730
31	4394	PLG24 Maint*	58.25	8	57.07	57.68	58.25	0.72	39.37499436	-104.86578491
31	4459	PLG24 Maint*	58.03	2	57.02	57.58	58.03	0.58	39.37481721	-104.86575851
39	3141	PLG24 Maint*	58.31	2	57.24	57.68	58.31	0.73	39.26765907	-104.89737215
39	3159	PLG24 Maint*	58.30	7	57.16	57.72	58.30	0.67	39.26761149	-104.89735636
39	3202	PLG24 Maint*	58.15	3	56.86	57.55	58.15	0.74	39.26749771	-104.89731587
39	3206	PLG24 Maint*	58.15	2	57.02	57.57	58.15	0.67	39.26748718	-104.89731191
39	3252	PLG24 Maint*	58.26	17	57.53	57.89	58.26	0.57	39.26736691	-104.89726415
39	3257	PLG24 Maint*	58.02	2	57.48	57.77	58.02	0.34	39.26735383	-104.89725873
39	3263	PLG24 Maint*	58.01	2	57.24	57.65	58.01	0.45	39.26733816	-104.89725218
39	3337	PLG24 Maint*	58.30	4	56.97	57.64	58.30	0.76	39.26714619	-104.89716675
39	3367	PLG24 Maint*	58.16	9	57.09	57.64	58.16	0.63	39.26706896	-104.89712960
39	3401	PLG24 Maint*	58.05	2	57.14	57.65	58.05	0.52	39.26698202	-104.89708582
41	195	PLG24 Maint*	58.07	6	56.97	57.54	58.07	0.65	39.24930290	-104.88513309
41	297	PLG24 Maint*	58.14	5	57.02	57.60	58.14	0.69	39.24904875	-104.88498284
41	368	PLG24 Maint*	58.08	3	56.83	57.47	58.08	0.72	39.24886878	-104.88488816
41	409	PLG24 Maint*	58.12	6	57.08	57.62	58.12	0.64	39.24876359	-104.88483711
41	449	PLG24 Maint*	58.10	4	56.98	57.58	58.10	0.64	39.24866011	-104.88478979
41	479	PLG24 Maint*	58.07	2	56.94	57.52	58.07	0.65	39.24858239	-104.88475610
41	524	PLG24 Maint*	58.17	4	56.92	57.55	58.17	0.73	39.24846516	-104.88470830
41	535	PLG24 Maint*	58.13	6	56.85	57.51	58.13	0.75	39.24843623	-104.88469707
41	561	PLG24 Maint*	58.04	2	56.95	57.52	58.04	0.62	39.24836756	-104.88467129
41	647	PLG24 Maint*	58.22	9	57.16	57.69	58.22	0.61	39.24813928	-104.88459404
41	663	PLG24 Maint*	58.10	5	56.98	57.56	58.10	0.65	39.24809648	-104.88458097
41	679	PLG24 Maint*	58.01	2	56.87	57.48	58.01	0.66	39.24805364	-104.88456836
41	700	PLG24 Maint*	58.11	8	56.99	57.58	58.11	0.65	39.24799742	-104.88455252
41	728	PLG24 Maint*	58.03	2	56.95	57.53	58.03	0.62	39.24792226	-104.88453251
41	769	PLG24 Maint*	58.16	5	56.85	57.53	58.16	0.77	39.24781177	-104.88450558
41	804	PLG24 Maint*	58.07	5	56.98	57.57	58.07	0.63	39.24771726	-104.88448468
41	4320	PLG24 Maint*	58.17	3	56.80	57.54	58.17	0.79	39.23814997	-104.88310144
43	4516	PLG24 Maint*	58.04	2	57.11	57.63	58.04	0.53	39.21212082	-104.87804499
45	1922	PLG24 Maint*	58.18	5	56.93	57.59	58.18	0.73	39.19488849	-104.86137411
48	2657	GWP Maint*	0.76	1	56.50	57.25	57.83	0.76	39.15609023	-104.87886733
51	3478	PLG24 Maint*	58.05	1	56.72	57.45	58.05	0.76	39.12838919	-104.90529702
55	4328	PLG24 Maint*	58.06	1	57.06	57.58	58.06	0.57	39.09148359	-104.87513941
56	3915	PLG24 Maint*	58.01	1	57.45	57.76	58.01	0.32	39.07922299	-104.87064429
65	3954	PLG24 Maint*	58.01	2	57.16	57.62	58.01	0.50	38.95892697	-104.83686249
65	3976	PLG24 Maint*	58.15	4	57.32	57.79	58.15	0.49	38.95886699	-104.83685413
66	2114	GWP Safety*	1.24	6	56.73	57.80	58.88	1.24	38.95171203	-104.83162109



TGIR  
GRMS Exception Report  
Milepost 5 to Milepost 605  
Denver, CO to Avondale, CO

Run Date: 10/02/2023  
Run ID: 2023100205  
Vehicle ID: DOTX 220

MP	FT	Parameter	Value	Length	UGage	LGage	PLG	GW	Latitude	Longitude
76	609	PLG24 Maint*	58.09	9	57.34	57.73	58.09	0.44	38.82084829	-104.82434043
76	623	PLG24 Maint*	58.33	12	57.57	57.98	58.33	0.43	38.82084394	-104.82429175
76	644	PLG24 Maint*	58.01	1	57.16	57.60	58.01	0.49	38.82083630	-104.82421893
76	663	LG Safety*	58.02	17	57.55	58.02	58.48	0.55	38.82082824	-104.82415327
79	222	GWP Maint*	0.77	2	56.52	57.22	57.86	0.77	38.79627470	-104.78177100
79	3081	PLG24 Maint*	58.21	9	57.36	57.79	58.21	0.51	38.79077516	-104.77463267
79	3112	PLG24 Maint*	58.00	1	57.40	57.71	58.00	0.35	38.79070896	-104.77456471
79	3115	PLG24 Maint*	58.00	1	57.44	57.74	58.00	0.32	38.79070248	-104.77455820
79	3130	PLG24 Maint*	58.21	14	57.52	57.89	58.21	0.40	38.79067003	-104.77452610
79	3163	PLG24 Maint*	58.05	2	57.30	57.68	58.05	0.43	38.79059751	-104.77445680
79	3191	LG Safety*	58.03	11	57.37	58.03	58.69	0.77	38.79053514	-104.77439982
79	3211	PLG24 Maint*	58.27	11	57.39	57.83	58.27	0.53	38.79049000	-104.77436016
79	3247	PLG24 Maint*	58.04	2	57.26	57.68	58.04	0.44	38.79040755	-104.77429106
79	3276	PLG24 Maint*	58.04	1	57.34	57.70	58.04	0.40	38.79034003	-104.77423734
79	3285	PLG24 Maint*	58.10	4	57.27	57.69	58.10	0.49	38.79031896	-104.77422106
79	3306	PLG24 Maint*	58.09	4	57.31	57.72	58.09	0.46	38.79026927	-104.77418353
79	3326	LG Safety*	58.01	17	57.48	58.01	58.56	0.64	38.79022175	-104.77414872
79	3341	PLG24 Maint*	58.02	2	57.40	57.74	58.02	0.36	38.79018563	-104.77412300
79	3346	PLG24 Maint*	58.05	4	57.37	57.73	58.05	0.39	38.79017361	-104.77411458
79	3363	PLG24 Maint*	58.00	1	57.14	57.60	58.00	0.49	38.79013261	-104.77408631
79	3367	PLG24 Maint*	58.01	1	57.25	57.65	58.01	0.44	38.79012291	-104.77407975
79	3400	PLG24 Maint*	58.43	18	57.49	57.99	58.43	0.63	38.79004237	-104.77402687
79	3428	PLG24 Maint*	58.12	3	57.18	57.66	58.12	0.54	38.78997342	-104.77398393
79	3441	PLG24 Maint*	58.04	2	57.37	57.72	58.04	0.39	38.78994118	-104.77396456
79	3455	PLG24 Maint*	58.04	2	57.20	57.65	58.04	0.48	38.78990633	-104.77394408
79	3464	PLG24 Maint*	58.19	5	57.22	57.73	58.19	0.58	38.78988393	-104.77393118
79	3487	PLG24 Maint*	58.00	1	57.19	57.61	58.00	0.46	38.78982623	-104.77389871
79	3495	PLG24 Maint*	58.05	4	57.19	57.65	58.05	0.49	38.78980616	-104.77388769
79	3525	PLG24 Maint*	58.37	19	57.52	57.98	58.37	0.54	38.78973016	-104.77384719
79	3532	PLG24 Maint*	58.15	5	57.31	57.74	58.15	0.49	38.78971233	-104.77383797
79	3571	PLG24 Maint*	58.01	1	57.06	57.53	58.01	0.55	38.78961262	-104.77378802
79	3576	PLG24 Maint*	58.14	4	57.07	57.62	58.14	0.63	38.78959986	-104.77378179
80	2441	PLG24 Maint*	58.03	1	56.94	57.53	58.03	0.62	38.77890959	-104.76906502
85	24	PLG24 Maint*	58.02	1	56.72	57.38	58.02	0.74	38.72516330	-104.71975383
87	1265	PLG24 Maint*	58.18	6	57.14	57.70	58.18	0.62	38.69682078	-104.70512381
87	1377	PLG24 Maint*	58.27	13	57.02	57.67	58.27	0.84	38.69652225	-104.70502988
91	543	PLG24 Maint*	58.00	1	56.88	57.44	58.00	0.64	38.64193688	-104.69150513
105	2538	GWP Maint*	0.81	1	56.54	57.20	57.94	0.81	38.44764296	-104.60521322
105	2619	PLG24 Maint*	58.17	4	56.92	57.58	58.17	0.71	38.44742079	-104.60521061
118	4376	PLG24 Maint*	58.04	1	56.93	57.52	58.04	0.64	38.27107337	-104.62466551
118	5145	PLG24 Maint*	58.25	7	57.08	57.72	58.25	0.67	38.26971128	-104.62263448
118	5246	PLG24 Maint*	58.08	2	57.06	57.61	58.08	0.58	38.26950528	-104.62238803

TGIR  
 GRMS Exception Report  
 Milepost 5 to Milepost 605  
 Denver, CO to Avondale, CO

Run Date: 10/02/2023  
 Run ID: 2023100205  
 Vehicle ID: DOTX 220

MP	FT	Parameter	Value	Length	UGage	LGage	PLG	GW	Latitude	Longitude
611	3612	PLG24 Maint*	58.34	6	57.12	57.76	58.34	0.71	38.27621162	-104.46928616

**Maintainance:**                    **351 Feet at**                    **81 Locations**  
**PLG24:**                            **0 Feet at**                    **0 Locations**  
**Gage Widening (Safety):**        **6 Feet at**                    **1 Locations**  
**Gage (Safety):**                    **45 Feet at**                    **3 Locations**  
**Total Exceptions:**                **402 Feet at**                    **85 Locations**

TGIR  
 Alignment 62 MCO Stations  
 Milepost 5 to Milepost 605  
 Denver, CO to Avondale, CO

Run Date: 10/02/2023  
 Run ID: 2023100205  
 Vehicle ID: DOTX 220

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
84	2132	L Align 62	2.13	11	38	B	2	3	5	38.73298247	-104.72657680

	MP	FT	LAlign62	LAlignMCO	RAlign62	RAlignMCO	Curve	XLevel	Gage
1	84	2070	-0.77	-0.24			0.00	-0.12	56.59
2	84	2086	-0.66	0.06			1.00	0.02	56.51
3	84	2101	-0.18	0.58			1.00	-0.16	56.57
4	84	2117	1.24	2.10			1.00	-0.67	56.73
5	84	2132	2.13	3.12			1.00	-0.38	57.70
6	84	2147	0.47	1.58			1.00	-0.04	56.87
7	84	2163	-0.90	0.30			1.00	-0.21	56.63
8	84	2178	-0.62	0.62			1.00	-0.35	56.47
9	84	2194	-0.26	0.85			1.00	-0.15	56.34
<b>AVG</b>				<b>1.00</b>					

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
118	2829	L Align 62	-3.58	14	18	C	1	2	1	38.27349161	-104.62908150

	MP	FT	LAlign62	LAlignMCO	RAlign62	RAlignMCO	Curve	XLevel	Gage
1	118	2767	-0.17	-4.50			-3.00	0.02	57.36
2	118	2783	2.26	-2.25			-3.00	-0.33	56.74
3	118	2798	2.03	-2.45			-3.00	-0.91	56.65
4	118	2814	-1.39	-5.79			-4.00	-0.80	56.55
5	118	2829	-3.58	-7.75			-4.00	-1.04	57.12
6	118	2844	-1.63	-5.62			-3.00	-0.98	57.36
7	118	2860	1.11	-2.97			-3.00	-0.43	57.38
8	118	2875	1.01	-3.15			-3.00	-0.71	57.09
9	118	2891	0.65	-3.22			-3.00	-1.61	57.20
<b>AVG</b>				<b>-4.19</b>					

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
118	2829	R Align 62	-3.63	13	18	C	1	2	1	38.27349161	-104.62908150

	MP	FT	LAlign62	LAlignMCO	RAlign62	RAlignMCO	Curve	XLevel	Gage
1	118	2767			-1.11	-5.40	-3.00	0.02	57.36
2	118	2783			2.06	-2.45	-3.00	-0.33	56.74
3	118	2798			2.57	-1.87	-3.00	-0.91	56.65
4	118	2814			-0.83	-5.26	-4.00	-0.80	56.55
5	118	2829			-3.63	-7.85	-4.00	-1.04	57.12
6	118	2844			-2.18	-6.16	-3.00	-0.98	57.36
7	118	2860			0.86	-3.19	-3.00	-0.43	57.38
8	118	2875			1.28	-2.91	-3.00	-0.71	57.09
9	118	2891			0.86	-3.08	-3.00	-1.61	57.20
<b>AVG</b>						<b>-4.24</b>			