

2015-05-12

10002
TRACK INSPECTION PROGRAM

TRACK GEOMETRY INSPECTION REPORT

MP 6 to MP 76
RR: AMTRAK (AMTK)
Survey Number: 215079
Milepost 6 to Milepost 76
Direction: NORTH, Descending Milepost



AMTRAK
Inspections and Tests
Philadelphia, PA

Exception Report
Exception List Section
Milepost 6 to Milepost 76

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MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Peak Lat/Long	Comment
6	5269	Down Milepost	6.00		87	B		6	2	39.913269 -75.252287	
6	3121	L Prof 31	-0.89	2	89	E	6	6	2	39.916957 -75.242370	
6	3123	L Prof 62	-0.90	3	89	E	6	6	2	39.916961 -75.242364	
6	3376	Posted Speed	110.00		89	T		6	2	39.917426 -75.241697	
6	3376	Unbal Elev	4.00		89	T		6	2	39.917426 -75.241697	
6	3603	R Prof 31	0.90	3	90	T	6	6	2	39.917848 -75.241098	
5	5272	Down Milepost	5.00		95	T		6	2	39.920950 -75.236680	
5	3007	L Prof 62	-0.97	2	104	T	6	6	2	39.926539 -75.228748	
5	3007	L Prof 31	-1.02	3	104	T	6	6	2	39.926539 -75.228748	
5	3867	L Prof 31	-0.90	2	106	T	6	6	2	39.928139 -75.226473	
5	3867	R Prof 62	-0.91	2	106	T	6	6	2	39.928139 -75.226473	
5	3867	R Prof 31	-1.01	5	106	T	6	6	2	39.928139 -75.226473	
4	4994	Down Milepost	4.00		107	T		6	2	39.930232 -75.223496	
4	1570	L Align 31	-0.50	1	101	T	6	6	2	39.933137 -75.219349	
4	1742	L Prof 62	-1.03	4	100	T	6	6	2	39.933459 -75.218889	
4	2010	Mult L Prof 31	-0.68	185	98	T	6	6	2	39.933957 -75.218178	
4	2802	L Align 62	-0.65	5	89	T	6	6	2	39.935460 -75.216075	
4	5276	Class Change	4.00		65	T		4	2	39.939995 -75.209519	
4	5276	Posted Speed	80.00		65	T		4	2	39.939995 -75.209519	
4	5276	Unbal Elev	5.00		65	T		4	2	39.939995 -75.209519	
3	5544	Down Milepost	3.00		65	B		4	2	39.940502 -75.208805	
3	776	Unbal Elev	7.00		65	E		4	2	39.942092 -75.206951	
3	2551	Unbal Elev	5.00		62	C		4	2	39.944770 -75.201783	
3	3551	Unbal Elev	7.00		59	E		4	2	39.945069 -75.198227	
3	4301	Class Change	3.00		49	C		3	2	39.945337 -75.195566	
3	4301	Posted Speed	60.00		49	C		3	2	39.945337 -75.195566	

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3	4301	Unbal Elev	5.00		49	C		3	2	39.945337 -75.195566	
2	4978	Down Milepost	2.00		38	E		3	2	39.946014 -75.193306	
2	1751	Posted Speed	45.00		30	T		3	2	39.948243 -75.187753	
2	1838	Track Change	0.00		30	T		3	1	39.948355 -75.187478	
2	2045	Gage Narrow	56.14	2	29	T	3	3	1	39.948616 -75.186813	
2	2093	Gage Narrow	55.93	20	29	T	3	3	1	39.948676 -75.186660	
2	3576	Unbal Elev	3.00		27	E		2	1	39.951502 -75.183058	
2	3576	Posted Speed	30.00		27	E		2	1	39.951502 -75.183058	
2	3576	Class Change	2.00		27	E		2	1	39.951502 -75.183058	
2	4871	Track Change	0.00		2	T		2	4	39.954938 -75.181922	
2	7251	Class Change	3.00		34	T		3	4	39.961188 -75.182767	
2	7251	Posted Speed	50.00		34	T		3	4	39.961188 -75.182767	
2	7251	Unbal Elev	5.00		34	T		3	4	39.961188 -75.182767	
2	7338	Track Change	0.00		35	T		3	1	39.961394 -75.182926	
1	7716	Down Milepost	1.00		37	B		3	1	39.962278 -75.183624	
1	3501	Unbal Elev	3.00		29	T		2	1	39.968227 -75.192877	
1	3501	Posted Speed	30.00		29	T		2	1	39.968227 -75.192877	
1	3501	Class Change	2.00		29	T		2	1	39.968227 -75.192877	
1	5154	Linecode	AN		29	C		2	1	39.970549 -75.197779	
88	5155	Down Milepost	88.00		29	C		2	1	39.970554 -75.197782	
88	1	State Line	AN		29	C		2	1	39.970554 -75.197782	
88	1	Unbal Elev	4.00		29	C		2	1	39.970554 -75.197782	
88	1720	Gage Wide	57.84	1	29	B	2	2	1	39.974714 -75.196141	
88	1727	Gage Change	-1.20	7	29	B	2	2	1	39.974728 -75.196123	
88	2051	Class Change	4.00		29	B		4	1	39.975320 -75.195255	
88	2051	Posted Speed	70.00		29	B		4	1	39.975320 -75.195255	

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88	2369	Gage Narrow	56.00	2	29	C	4	4	1 ##	39.975919 -75.194424	
88	2386	Gage Change	1.36	17	30	C	4	4	1	39.975950 -75.194379	
88	2441	L Align 62	-1.16	10	30	E	4	4	1	39.976049 -75.194230	
88	2566	Track Change	0.00		30	T		3	2	39.976275 -75.193891	
88	2566	Posted Speed	45.00		30	T		3	1	39.976275 -75.193891	
88	2566	Class Change	3.00		30	T		3	1	39.976275 -75.193891	
88	2576	Class Change	4.00		30	T		4	2	39.976292 -75.193864	
88	2576	Posted Speed	70.00		30	T		4	2	39.976292 -75.193864	
88	2750	Gage Change	0.67	30	32	T	4	4	2	39.976606 -75.193393	
88	3008	Gage Change	0.64	19	35	T	4	4	2	39.977071 -75.192694	
88	3223	Gage Change	-0.84	26	37	T	4	4	2	39.977459 -75.192113	
88	3362	Gage Change	-0.62	16	39	T	4	4	2	39.977709 -75.191737	
88	3718	Gage Change	0.79	16	43	B	4	4	2	39.978351 -75.190772	
88	4055	Warp 62	1.39	62	46	B	4	4	2	39.978936 -75.189835	
88	4124	Warp 62	1.48	57	46	C	4	4	2	39.979057 -75.189644	
88	4165	Warp 62	1.52	62	47	C	4	4	2	39.979129 -75.189531	
88	4394	Warp 62	1.38	61	49	E	4	4	2	39.979549 -75.188926	
88	4526	Posted Speed	80.00		50	T		4	2	39.979793 -75.188578	
88	4526	Unbal Elev	5.00		50	T		4	2	39.979793 -75.188578	
87	5096	Down Milepost	87.00		56	T		4	2	39.980792 -75.186997	
86	4772	Down Milepost	86.00		66	T		4	2	39.988947 -75.173629	
86	3201	Unbal Elev	4.00		54	B		3	2	39.993783 -75.164053	
86	3201	Posted Speed	60.00		54	B		3	2	39.993783 -75.164053	
86	3201	Class Change	3.00		54	B		3	2	39.993783 -75.164053	
86	4268	Gage Narrow	55.93	11	53	T	3	3	2	39.995127 -75.160657	
86	4284	Gage Change	0.91	16	53	T	3	3	2	39.995146 -75.160606	

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86	4321	Gage Narrow	56.13	2	53	T	3	3	2	39.995190 -75.160487	
86	4432	Gage Narrow	56.12	3	53	T	3	3	2	39.995323 -75.160129	
86	4519	Gage Narrow	56.14	3	53	T	3	3	2	39.995426 -75.159849	
85	5867	Down Milepost	85.00		55	C		3	2	39.997112 -75.155544	
85	1445	Gage Change	1.29	10	58	T	3	3	2	39.998782 -75.150849	
85	2901	Class Change	4.00		61	T		4	2	40.000530 -75.146155	
85	2901	Posted Speed	80.00		61	T		4	2	40.000530 -75.146155	
85	2901	Unbal Elev	5.00		61	T		4	2	40.000530 -75.146155	
84	1	Unbal Elev	4.00		63	T		4	2	40.003235 -75.138885	
84	1	Posted Speed	65.00		63	T		4	2	40.003235 -75.138885	
84	5155	Down Milepost	84.00		63	T		4	2	40.003235 -75.138885	
84	2476	Posted Speed	80.00		64	C		4	2	40.005183 -75.130537	
84	2476	Unbal Elev	5.00		64	C		4	2	40.005183 -75.130537	
83	5244	Down Milepost	83.00		70	T		4	2	40.004417 -75.120676	
83	5074	Gage Change	-1.11	22	49	T	4	4	2	40.002098 -75.102757	
83	5074	Gage Narrow	55.78	5	49	T	0	4	2	40.002098 -75.102757	*
82	5293	Down Milepost	82.00		48	T		4	2	40.001999 -75.101980	
82	1176	Class Change	3.00		47	T		3	2	40.001458 -75.097827	
82	1176	Posted Speed	60.00		47	T		3	2	40.001458 -75.097827	
82	1176	Unbal Elev	7.00		47	T		3	2	40.001458 -75.097827	
82	2200	Gage Wide	57.63	2	49	C	3	3	2	40.001438 -75.094202	
82	2361	Gage Wide	57.68	14	49	C	3	3	2	40.001594 -75.093662	
82	2384	Gage Wide	57.72	12	49	C	3	3	2	40.001620 -75.093587	
82	2406	Gage Wide	57.67	9	49	C	3	3	2	40.001645 -75.093515	
82	2473	Gage Wide	57.64	3	49	C	3	3	2	40.001729 -75.093301	
82	2529	Gage Wide	57.63	5	49	C	3	3	2	40.001805 -75.093127	

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82	2549	Gage Wide	57.64	4	49	C	3	3	2	40.001833 -75.093065	
82	2691	R Prof 31 (cant>5)	-1.33	1	50	C	3	3	2	40.002052 -75.092645	
82	2705	Gage Wide	57.63	7	49	E	3	3	2	40.002076 -75.092605	
82	2722	Gage Wide	57.61	3	50	E	3	3	2	40.002104 -75.092558	
82	2723	R Prof 31 (cant>5)	-1.34	1	50	E	3	3	2	40.002106 -75.092555	
82	2743	Gage Wide	57.62	2	50	E	3	3	2	40.002140 -75.092499	
82	2830	Gage Wide	57.74	6	50	E	3	3	2	40.002297 -75.092264	
82	3351	Class Change	4.00		51	T		4	2	40.003364 -75.091018	
82	3351	Posted Speed	80.00		51	T		4	2	40.003364 -75.091018	
82	4886	L Prof 31 (cant>5)	0.92	4	54	C	4	4	2	40.006244 -75.087035	
81	5255	Down Milepost	81.00		57	C		4	2	40.006715 -75.085860	
81	676	Unbal Elev	5.00		61	T		6	2	40.007339 -75.083586	
81	676	Posted Speed	110.00		61	T		6	2	40.007339 -75.083586	
81	676	Class Change	6.00		61	T		6	2	40.007339 -75.083586	
80	5257	Down Milepost	80.00		87	T		6	2	40.011166 -75.067941	
79	5370	Down Milepost	79.00		104	T		6	2	40.017270 -75.050546	
78	5160	Down Milepost	78.00		109	T		6	2	40.025433 -75.035434	
78	2511	CBL Peak to Peak	0.30	1	108	T			2	40.029782 -75.028429	
78	3189	CBL Peak to Peak	0.26	1	109	T			2	40.030949 -75.026537	
78	3283	L Align 31	-0.49	4	109	T	6	6	2	40.031110 -75.026277	
78	4091	L Prof 31	-1.07	5	110	T	6	6	2	40.032506 -75.024025	
78	4091	L Prof 62	-1.12	6	110	T	6	6	2	40.032506 -75.024025	
78	4101	Class Change	7.00		109	T		7	2	40.032523 -75.023997	
78	4101	Posted Speed	125.00		109	T		7	2	40.032523 -75.023997	
78	5201	Unbal Elev	7.00		111	B		7	2	40.034410 -75.020913	
77	5271	Down Milepost	77.00		111	B		7	2	40.034529 -75.020710	

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77	2728	L Prof 31	-0.88	1	112	B	7	7	2	40.038203 -75.012205	
76	5206	Down Milepost	76.00		105	T		7	2	40.042018 -75.004856	

Notes:

- * Level 1 Exception
- ## Level adjusted by operator
- Cant Exceptions are in degrees
- The following fields are irrelevant for Cant Exceptions: LC, PC

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 Curve Analysis Section
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MP 6 to MP 76

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

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

Track	Starting		Ending		Len	Spd	Average			Speed		Limiting Point			Total		Limiting Speed at								
	MP	FT	MP	FT			Curve	Elev	Cant Def	Post	Lmt	MP	FT	Curve	Elev	Cant Def	FT	Grp	3"	4"	5"	6"	7"	8"	9"
							Deg/M	inches	inches			Deg/M	inches	inches											
2	7	5217	6	3319	3372	88	-1/04	-2.50	5.76	105	109	6	2769	-1/07	-2.50	6.15			84	91	109	104	110	116	121
2	4	3556	4	4376	821	77	0/10	0.47	1.05	110	175	4	3835	0/12	0.46	1.32			153	175	193	210	225	240	254
2	4	4376	4	4923	548	67	-0/13	-0.39	1.56	110	155	4	4572	-0/15	-0.44	1.76			138	155	173	188	202	215	228
2	4	5278	3	793	1060	65	-1/27	-2.43	4.11	80	84	3	285	-1/28	-2.39	4.24			72	79	84	90	95	100	105
2	3	793	3	2504	1712	63	2/27	5.37	5.61	80	84	3	2187	2/29	5.35	5.81			69	73	77	81	84	88	91
2	3	2504	3	3555	1052	62	1/58	4.84	3.99	80	84	3	2635	1/58	4.84	4.03			75	80	84	88	84	96	100
2	3	3555	2	189	1613	53	-2/04	-2.54	2.70	60	72	3	4613	-2/05	-2.53	2.73	2		62	67	72	76	72	85	89
1	2	2211	2	3063	853	28	-4/40	-3.39	3.23	45	51	2	2745	-4/34	-3.34	3.15			44	48	51	54	57	59	62
1	2	3063	2	3669	607	27	-3/36	-3.42	-1.15	30	58	2	3247	-3/36	-3.41	-1.13			50	54	58	61	64	67	70
1	2	3781	2	4431	651	26	-3/27	0.24	1.94	30	31	2	4156	-3/33	0.66	1.58			31	37	42	46	50	54	58
4	2	5802	2	7015	1214	30	-5/51	-1.70	1.99	30	33	2	6225	-5/54	-1.41	2.31			33	36	39	42	45	48	50
1	2	7631	1	569	655	38	-0/39	-1.16	-0.02	50	114	1	568	-0/40	-1.14	0.03			94	105	114	123	132	140	147
1	1	569	1	1184	616	39	-0/56	-1.67	-0.02	50	97	1	826	-1/00	-1.70	0.05			82	90	97	105	111	118	124
1	1	1328	1	2371	1044	36	-3/00	-3.70	1.55	50	64	1	2078	-3/00	-3.66	1.61			56	60	64	68	71	74	78
1	1	2371	1	2976	606	33	-2/36	-3.07	1.48	50	66	1	2393	-2/37	-2.97	1.62			57	62	66	70	74	77	81
1	1	3512	88	592	2236	29	5/00	2.74	0.42	30	40	1	4769	5/01	2.74	0.43			40	44	47	50	53	55	58
1	88	592	88	1499	908	29	6/19	3.02	0.96	30	40	88	887	6/21	2.98	1.02			37	40	42	45	47	50	52
1	88	1499	88	1579	81	29	0/30	0.45	-0.13	30	112	88	1578	0/30	0.45	-0.13			98	112	124	134	144	154	163
1	88	1579	88	1942	364	29	2/00	0.41	0.85	30	55	88	1776	2/05	0.38	0.94			48	55	61	66	71	76	80
* 1	88	1942	88	2214	273	29	-1/12	0.02	4.09	70	66	88	2088	-1/15	0.16	4.13	62	-1	57	66	74	82	88	95	101
1	88	2214	88	2544	331	30	1/09	0.33	3.62	70	72	88	2356	1/12	0.30	3.82			63	72	79	87	93	99	105

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

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

Track	Starting		Ending		Len	Spd	Average			Speed		Limiting Point			Total		Limiting Speed at								
	MP	FT	MP	FT			Curve	Elev	Cant Def	Post	Lmt	MP	FT	Curve	Elev	Cant Def	FT	Grp	3"	4"	5"	6"	7"	8"	9"
																			Deg/M	inches	inches	Deg/M	inches	inches	
2	88	3562	88	3964	403	44	0/51	0.97	1.98	70	82	88	3774	0/54	0.23	2.86			72	82	91	99	107	114	121
2	88	3964	88	4501	538	48	-0/31	-3.04	-1.23	70	128	88	4114	-0/33	-2.37	-0.49			118	128	138	147	156	164	172
2	87	2784	87	3630	847	66	1/30	3.62	3.15	80	89	87	3280	1/32	3.58	3.32			78	84	89	94	99	104	108
2	86	3032	86	3772	741	54	1/46	2.08	2.38	60	79	86	3469	1/14	1.37	1.75			71	79	79	92	98	104	109
2	86	5035	86	5594	560	54	-0/57	-0.73	1.66	60	79	86	5330	-1/02	-0.56	2.06			70	79	87	95	102	108	115
2	86	5594	85	650	924	55	0/49	1.32	0.75	60	94	85	375	0/50	1.22	0.90			85	94	103	111	118	125	132
2	85	650	85	1167	518	56	-0/51	-1.08	1.08	60	89	85	886	-0/54	-1.12	1.17			80	89	98	106	113	120	126
2	84	849	84	2432	1584	64	2/33	5.73	1.84	65	73	84	1781	2/33	5.64	1.93			69	73	77	81	84	87	90
2	84	2432	84	4974	2543	69	0/21	1.65	-0.09	80	155	84	2432	0/20	1.68	-0.16			140	155	168	180	191	202	212
2	82	1200	82	3301	2102	50	-4/02	-4.77	5.41	60	64	82	2044	-4/04	-4.72	5.54			52	55	58	61	64	67	69
2	82	3611	81	641	2286	57	1/45	1.93	5.91	80	84	82	5172	1/48	1.91	6.20			62	68	74	79	84	88	93
2	81	2994	81	3375	382	77	-0/09	-0.32	1.03	110	220	81	3266	-0/09	-0.34	0.93			178	203	220	246	264	282	298
2	80	1535	80	4336	2802	101	-0/36	-1.82	3.35	110	118	80	3854	-0/42	-2.08	3.93			101	111	118	127	135	142	149
2	79	2392	79	4302	1911	108	-0/20	-1.07	1.81	110	152	79	3001	-0/21	-1.01	2.03			126	141	152	167	178	189	199
2	78	4411	78	5187	777	111	0/10	0.77	1.09	125	188	78	5186	0/15	1.20	1.53			155	172	188	203	217	229	241
2	78	5187	77	984	1069	112	0/57	5.20	5.19	125	133	77	522	0/58	5.16	5.56			109	116	133	128	133	138	144
2	77	984	77	1657	674	112	0/25	2.64	1.95	125	178	77	1226	0/26	2.69	2.12			136	147	158	168	178	186	195
2	77	2641	77	4657	2017	112	-0/42	-2.82	4.83	125	139	77	3403	-0/42	-2.80	4.97			108	117	125	133	139	147	154