

July 2019

Monthly Operations Report



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INTRODUCTION

Pursuant to Schedule 6, Section 1.8.2(a) of the Concession Agreement, Plenary Roads Denver (“PRD”) is required to submit a monthly report covering all essential statistics related to the Managed Lanes. The following data covers the month of July 2019. Operationally, July was a positive month. Several routine maintenance tasks were completed, there were minimal incidents to maintained elements, and traffic volumes were consistent with expectations.

1.0 VOLUMES AND LANE USAGE

Over the last several months as more commuters use the transponders for either ExpressToll™ (AVI) or HOV travel, License Plate (LPT) transactions have consistently decreased as a percentage of total traffic volume. The total monthly gantry traffic volume for July 2019 in the I-25 Central and US 36 Managed Lanes was 310,497 and 1,306,512, respectively.

The table below provides the monthly summary for each Managed Lanes roadway, along with a detailed breakdown of weekday volumes. For reference, the AM Peak Period is considered to be weekdays from 6:45 am – 8:45 am. The PM Peak Period is considered to be, weekdays, from 4:15pm – 5:45pm. It should be noted, that the I-25 Managed Lane traffic reflects traffic counts from a single gantry and US 36 Managed Lane counts reflect fourteen gantries, seven gantries in each direction. Therefore, US 36 data will indicate far greater traffic counts that are not comparative to those of I-25.

The following charts depict the distribution of traffic by type (Figure 1) and the daily traffic counts (Figure 2) and for the month.

Traffic Summary (US 36)						
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid
Total Monthly Traffic	704,894	337,562	230,421	33,635	1,306,512	2,444
Maximum Weekday Traffic	44,167	19,498	10,556	1,803	75,784	181
Average Weekday Traffic	28,599	13,158	8,048	1,373	51,178	97
Average Hourly AM Peak Traffic	3,961	1,493	845	175	6,474	N/A
Average Hourly PM Peak Traffic	4,009	1,733	997	166	6,905	N/A

Traffic Summary (I-25C)						
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid
Total Monthly Traffic	147,513	92,317	59,327	11,340	310,497	778
Maximum Weekday Traffic	7,231	4,553	2,533	529	14,743	47
Average Weekday Traffic	6,004	3,722	2,206	465	11,932	32
Average Hourly AM Peak Traffic	759	513	275	60	1,547	N/A
Average Hourly PM Peak Traffic	737	445	264	62	1,446	N/A

Table 1 – Monthly Traffic Summaries

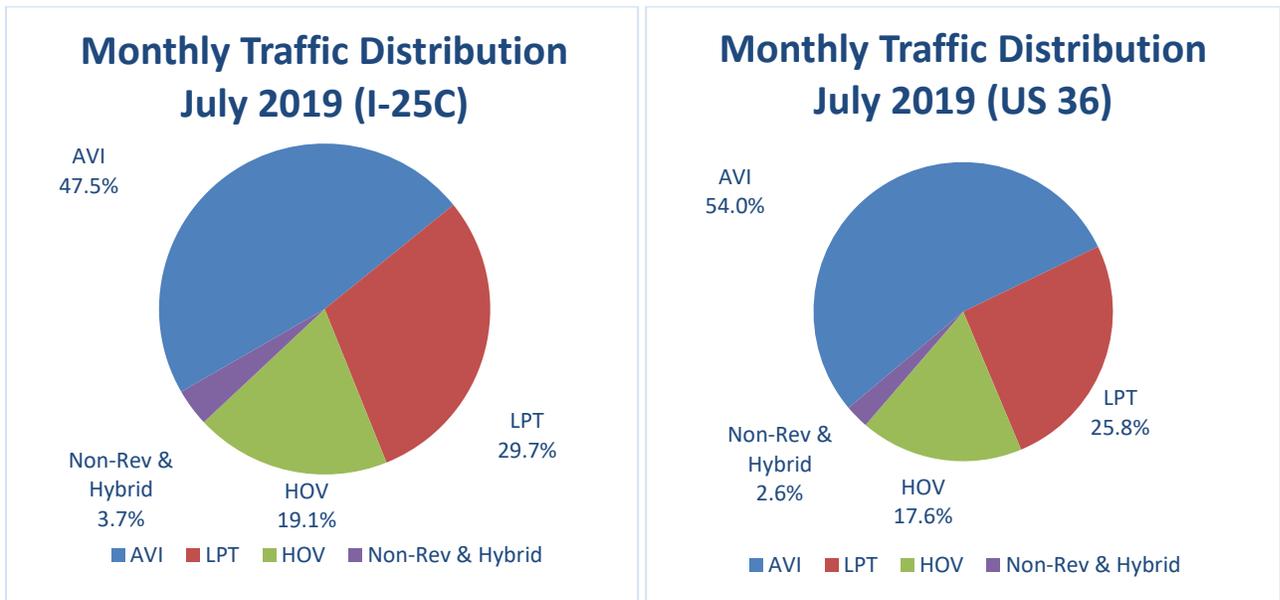
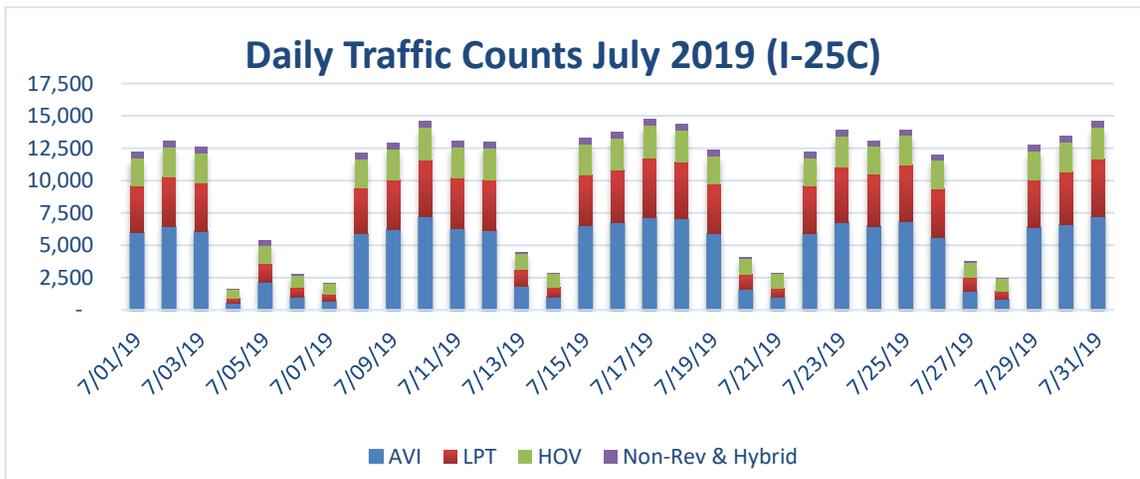


Figure 1 – Monthly Traffic Distribution



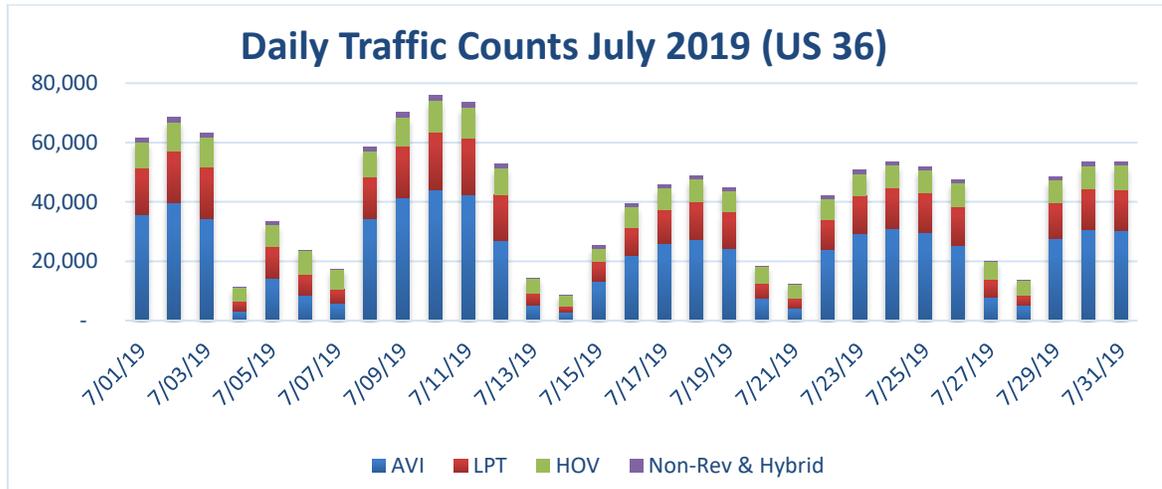


Figure 2 – Daily Traffic Counts

2.0 REVENUES

During the month of July 2019, PRD collected \$858,352 and \$831,215 from users of the I-25 Central and US36 Managed Lanes, respectively. For purposes of this report, revenues are recognized at the time of collection, which is typically sometime after they have been incurred for those customers who are billed based on their license plate. For example, if a single-occupant vehicle uses the lanes in October but pays in January, the associated revenue is attributed to January.

3.0 OPERATIONAL INCIDENTS, ISSUES, AND CLOSURES

The project had numerous routine debris removals, lighting incidents, guardrail incidents, sign incidents, and graffiti control during the month. The routine lighting, guardrail, roadway markings and sign incidents are all planned for repair within the allowable response period and several previously identified lighting incidents were repaired. All incidents were responded to and rectified within the allowable timeframes.

The week of July 9, 2019, there was a pavement defect noted that was progressing in severity near the Church Ranch Blvd. Interchange affecting US36 mainline in the eastbound direction. After further site investigation by CDOT, HPTE, PRD and Ferrovial Services, it was decided that the roadway should be closed on July 12, 2019. In order to facilitate traffic movement, the eastbound lanes were placed in the westbound direction. The final configuration of traffic required a closure of the EB and WB Promenade toll point. The closure of the toll point is still in effect.

Date	Start	Stop	Duration
July 5, 2019	15:42	16:27	0:45

July 9, 2019	17:30	18:15	0:45
July 10, 2019	13:35	14:32	0:57
July 12, 2019	19:15	On-going	-
July 25, 2019	08:57	10:10	1:13
Total			3 hours 40 minutes
Remaining Closure Hours Available (Ref: CA 29.7)			8 hours 20 minutes

Table 2 – Managed Lanes Closures to Date

The table below provides a listing of ETCS items recorded this month, consistent with Appendix 6-2 of Schedule 6.

Element ID	Cat	Element	Performance Item	PRD Notified	Contractual Cure Period	Cure Achieved
None						

Table 3 – ETCS Issues per CA Schedule 6 Appendix 6-2

The table below provides a status of all Noncompliance categories in accordance with paragraph 1.2 of Schedule 10.

Non-compliance Location	Nature	Cause	Cure Date	Uncured Non-compliance Point	Unexpired Non-compliance Point	365 Day Expiration Date	1095 Day Expiration Date
None							

Table 4 – Status of Noncompliance Categories

4.0 MEAN TIME BETWEEN FAILURE (MTBF) AND MEAN TIME TO REPAIR (MTTR)

Mean Time Between Failure (MTBF) and Mean Time To Repair (MTTR) data is provided in the table below. Only Maintained Elements that were repaired during the reporting period and had a failure type breakdown are listed in the table. We consider a breakdown to be a failure when the element cannot be used for its intended purpose until repaired.

Maintained Element	Mean Time Between Failure (MTBF) (Hours)	Mean Time To Repair (MTTR) (Hours)
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None	N/A	N/A
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Table 5 – Mean Time Between Failure & Mean Time To Repair

5.0 HYBRID UTILIZATION

Total Hybrid Trips	
I-25 Central	778
US 36	2,444

Table 6 – Hybrid Utilization

Fuel-efficient “Hybrid” vehicles are permitted to access the Express Lanes free of charge, regardless of occupant numbers, provided that they have obtained a permit from CDOT, obtained a Hybrid transponder from E-470, and display an E-470 Hybrid decal on the vehicle’s windshield.

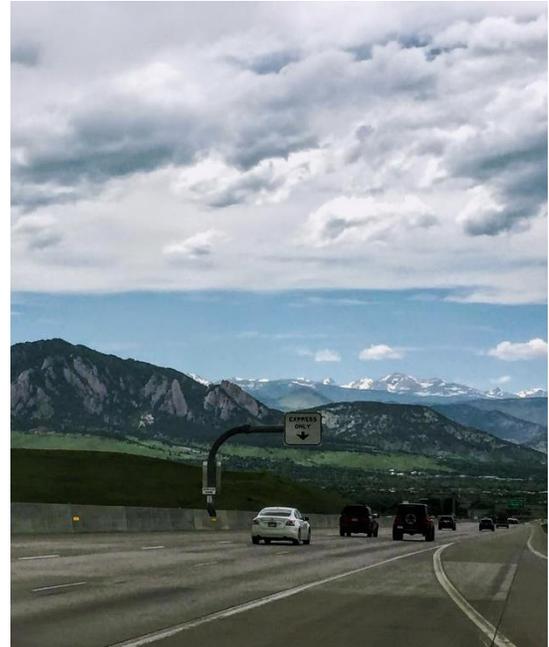
OPERATIONS AND
MAINTENANCE
MONTHLY REPORT
JULY 2019

US 36 and I-25 Express
Lanes Project

Prepared for:

Plenary Roads Denver, LLC
1700 Lincoln Street, Suite 3000
Denver, CO 80203

Attention: Mr. Christian Guevara, PE

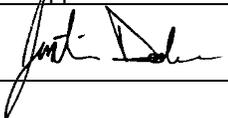


Prepared By:

Ferrovial Services
10525 West 120th Avenue
Broomfield, CO 80021
United States of America

Justin Doles, PE
Project Manager

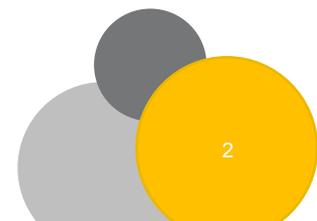
OPERATIONS AND MAINTENANCE – MONTHLY REPORT
 JULY 2019
 US 36 and I-25 Express Lanes Project

Revision	Date	Approved
Rev. 0	08/08/2019	

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The information and analyses contained herein have been completed to a level of detail commensurate with the objectives of the assignment and in light of the information made available to Ferrovial Services at the time of preparation. This report and its supporting documentation have been reviewed and/or checked for conformance with industry-accepted norms. To the best of the information and belief of Ferrovial Services, the information presented in this report is accurate to within the limitations specified herein.

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The O&M Monthly Report contains all relevant information for the month of July 2019. Ferrovial Services continues ongoing and preventive maintenance activities for the I-25 and US36 Managed Lanes Project.

Ferrovial Services Commitment to Safety

Ferrovial Services conducted weekly toolbox talk meetings during the month. The purpose of the tool box talks is to cover important safety items that relate to the project such as near misses, “better ways” as to how safety is conducted for the Project, and discussion on safety procedures for maintenance activities. In addition to the toolbox talks, Ferrovial Services conducts a weekly progress meeting. This is a forum for feedback from staff on Operations, Incident Response, and Maintenance activities.

Toolbox Talks this month included:

- Don't Get Shocked
- Avoiding Accidents at Work
- 10 Steps to Safety
- New Tech in Cars
- Parking Lot Safety

A. Summary of the Planned Maintenance Activities for the Upcoming Month – August 2019

Ferrovial Services has identified the upcoming planned maintenance activities as described in Table 1.7.1.3 of The Maintenance Management Plan. These activities include preventative and routine maintenance in order to successfully operate and maintain the Project. A listing of the planned maintenance activities for the month of August 2019 is included below.

FIG. A-1 Planned Maintenance Activities for August 2019

X – INDICATES THE DAY THE TASK IS PLANNED.

Performance Standard Identification Number (Table 6.1)	Work Activity-Description	Frequency	Aug-19																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
ML-1	MAINTENANCE PATROL	Daily	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X	
ML-1	FLEXIBLE PAVEMENT OBSERVATION / REPAIR	F-52						X						X								X							X				
ML-1	RIGID PAVEMENT OBSERVATION / REPAIR	F-52						X						X								X							X				
ML-9	CONCRETE SEALING	F-1												X	X	X	X	X			X	X	X	X	X								
ML-4	DELINEATORS & MARKERS OBSERVE / CLEAN / REPAIR	F-12												X																			
ML-2	DRAINAGE STRUCTURE (INLET) INSPECTION	F-1																			X												
ML-2	DRAINAGE (INLET) OBSERVE/ CLEAN / REPAIR	F-12																			X												
ML-2	DRAINAGE (PIPE/CULVERT) OBSERVE / CLEAN / RPR	F-12																		X													
ML-6	SIGN OBSERVATION / REPAIR	F-52					X							X							X							X					
ML-8	STREET LIGHTING OBSERVATION / REPAIR	F-52					X							X							X							X					
ML-8	ELECTRICAL SUPPLY INSPECTION / REPAIR	F-12																														X	
ML-8	ACCESS PANEL OBSERVATION / REPAIR	F-12																														X	
ML-10	HERBICIDE & WEED CONTROL MAINTENANCE	F-52		X									X							X						X						X	
ML-12	GRAFFITI OBSERVATION / REMOVAL	F-52					X							X							X							X					
ML-14	MECHANICAL ROAD SWEEPING	F-12																			X	X	X	X	X								
ML-14	LITTER OBSERVATION / REMOVAL	Daily	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X	
ML-15	SAND STORAGE DOME MAINTENANCE	F-1																		X													
ML-15	LIQUID STORAGE FACILITY MAINTENANCE	F-1																		X													
	REVERSIBLE LANE OPERATIONS	Daily	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X	

Frequency of Activity:

Daily – Daily Activity

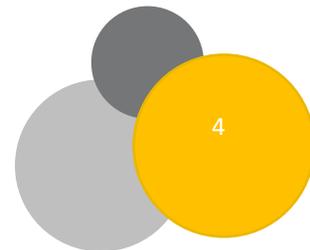
F-4 – Quarterly Activity

F-52 – Weekly Activity

F-2 – Semi-Annual Activity

F-12 – Monthly Activity

F-1 – Annual Activity



B. Summary of Performed and Completed Maintenance Activities

Fig. B-1 Performed and Complete Maintenance Activities for July 2019

X Indicates the day of the month that the task was completed.

Performance Standard Identification Number (Table 6.1)	Work Activity-Description	Frequency	Jul-19																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
ML-1	MAINTENANCE PATROL	Daily	X	X	X		X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X
ML-1	FLEXIBLE PAVEMENT OBSERVATION / REPAIR	F-52	X						X							X							X								X		
ML-1	RIGID PAVEMENT OBSERVATION / REPAIR	F-52	X						X							X							X								X		
ML-4	DELINEATORS & MARKERS OBSERVE / CLEAN / REPAIR	F-12		X														X															
ML-2	DRAINAGE (INLET) OBSERVE / CLEAN / REPAIR	F-12	X													X																	
ML-2	DRAINAGE (PIPE/CULVERT) OBSERVE / CLEAN / RPR	F-12	X													X																	
ML-5.1	GUARDRAIL, SAFETY BARRIER				X																												
ML-6	SIGN OBSERVATION / REPAIR	F-52					X						X								X							X					
ML-8	STREET LIGHTING OBSERVATION / REPAIR	F-52			X						X								X							X							X
ML-8	ELECTRICAL SUPPLY INSPECTION / REPAIR	F-12			X																												
ML-8	ACCESS PANEL OBSERVATION / REPAIR	F-12			X																												
ML-10	HERBICIDE & WEED CONTROL MAINTENANCE	F-52					X						X								X							X					
ML-12	GRAFFITI OBSERVATION / REMOVAL	F-52	X						X							X							X								X		
ML-14	MECHANICAL ROAD SWEEPING	F-12														X	X	X	X	X													
ML-14	LITTER OBSERVATION / REMOVAL	Daily	X	X	X		X		X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	
	REVERSIBLE LANE OPERATIONS	Daily	X	X	X		X		X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	

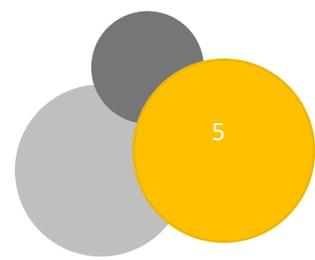


Fig. B-2 Work Accomplished This Month

Activity	Actual Work
152 Asphalt Pavement Surface Rpr (YD2)	8
153 Concrete Pavement Surface Rpr (YD2)	12
202 Clean Drains (EA)	5
210 Slope Rpr (YD3)	150
215 Roadkill Cleanup (EA)	1
218 Debris in Roadway (HR)	37
218 Litter Trash Cleanup (YD3)	15
220 Sweeping (Mech) (MI)	120
222 Sweeping - Hand (HR)	41
254 Veg Cntrl Hnd/Chem (HR)	153
301 Misc Sign Maint (EA)	6
304 Del Post Maint (EA)	173
314 Reversible Lane Ops (HR)	309
329 Courtesy Assistance (HR)	330
364 Bridge Jnt Maint (LF)	748
540 Graffiti Removal (SF)	34
601 Incident Response (HR)	107

C. Summary of Planned Maintenance that was Not Completed for the Month

Ferrovial Services completed all scheduled maintenance activities for the period of July, 2019. Frequencies and/or actual date of the month of some activities may have been adjusted based on actual conditions.

D. Summary of the Maintenance Activities and Results Performed for the Month Beyond Planned Maintenance

A summary of unplanned maintenance activities provided below:

Snow and Ice Control: None

Courtesy Patrol: None

Hazardous Materials Incidents: None

On July 8, 2019, the pavements and mechanically stabilized earth (MSE) wall at milepost 49.9 on eastbound US36 showed indications of a potential failure. Ferrovial Services notified PRD, HPTE and CDOT of the issue. After preliminary investigation, the group jointly decided to monitor the observed condition. Throughout the week, the indications further developed and eastbound US36 was closed by CDOT on July 12, 2019. The movement, and subsequently the failure of the wall affected most all of the Maintained Elements that were in the vicinity of the MSE wall failure. CDOT is currently executing a CMGC contract to complete the repair of the affected area.

E. Operating Contractor's Incident Response Logs Related to Maintenance Activities

This section provides a summary of Ferrovial Services performance related to the Performance and Measurement Criteria listed in Appendix 6-1.1 of the Operating Contract.

The table below provides a listing of items recorded this month:

Element Category	Description	Location	Notified	Response to Defects		
				Category 1		Category 2
				Hazard Mitigation	Permanent Remedy	Permanent Repair
GP5.1	Guardrail (Impact Damage)	MP 45.9 WB	5/11/2019 22:54:00	N/A	N/A	Reqd: 6 Months Respd: 7/18/2019 23:00 Actual: 2.19 Months
GP5.1	Barrier (Impact Damage)	MP 57.1 WB	6/4/2019 08:20:00	N/A	N/A	Reqd: 6 Months Respd: -- Actual: In Progress
ML5.2	Attenuator (Impact Damage)	MP 56.1 EB	6/13/2019 06:40:00	N/A	N/A	Reqd: 6 Months Respd: -- Actual: In Progress
GP6.1	Sign (Impact Damage)	MP 51.6 WB	6/26/2019 21:22:00	N/A	N/A	Reqd: 6 Months Respd: -- Actual: In Progress
GP6.1	Sign (Impact Damage)	MP 40.5 EB	6/26/2019 21:03:00	N/A	N/A	Reqd: 6 Months Respd: -- Actual: In Progress
ML6.1	Sign (Impact Damage)	MP 47.3 EB	6/27/2019 17:30:00	N/A	N/A	Reqd: 6 Months Respd: -- Actual: In Progress
GP1.2	Pavement (Spalled Joint)	MP 55.52 WB	7/3/2019 08:00:00	Reqd: 24 Hours Respd: 7/3/2019 10:22 Actual: 2.36 Hours	N/A	N/A
GP1.1	Debris (Cleared Mattress From Lanes)	MP 56.2 EB	7/7/2019 18:29:00	Reqd: 1 Hours Respd: 7/7/2019 19:20 Actual: 0.84 Hours	N/A	N/A
GP6.1	Sign (Repositioned Sign)	MP 42.75 WB	7/8/2019 00:10:00	N/A	N/A	Reqd: 6 Months Respd: 7/8/2019 05:21 Actual: 0.00 Months
GP6.1	Sign (Loose Sign Base)	MP 48.60 WB	7/10/2019 08:00:00	N/A	N/A	Reqd: 6 Months Respd: 7/12/2019 09:30 Actual: 0.06 Months
GP1.1	Debris (Cleared Bags From Lanes)	MP 57.1 WB	7/11/2019 01:05:00	Reqd: 1 Hours Respd: 7/11/2019 01:43 Actual: 0.63 Hours	N/A	N/A
GP6.1	Sign (Impact Damage)	MP 52.5 EB	7/11/2019 20:12:00	N/A	N/A	Reqd: 6 Months Respd: 7/11/2019 20:30 Actual: 0.01 Months
GP13.1	Incident Response (Crack in Pavement)	MP 49.90 EB	7/12/2019 09:05:00	Reqd: 1 Hours Respd: 7/12/2019 09:30 Actual: 0.41 Hours	N/A	N/A
GP6.1	Sign (Impact Damage)	MP 48.3 EB	7/12/2019 01:13:00	N/A	N/A	Reqd: 6 Months Respd: 7/12/2019 01:15 Actual: 0.01 Months
GP1.1	Debris (Cleared Shovel from Lanes)	MP 43.0 EB	7/15/2019 23:59:00	Reqd: 1 Hours Respd: 7/16/2019 00:29 Actual: 0.50 Hours	N/A	N/A
GP1.1	Debris (Cleared Debris from Lanes)	MP 50.4 EB	7/16/2019 21:03:00	Reqd: 1 Hours Respd: 7/16/2019 21:48 Actual: 0.75 Hours	N/A	N/A
GP5.1	Guardrail (Impact Damage)	MP 54.4 WB	7/17/2019 00:30:00	N/A	N/A	Reqd: 6 Months Respd: -- Actual: In Progress

Element Category	Description	Location	Notified	Response to Defects		
				Category 1		Category 2
				Hazard Mitigation	Permanent Remedy	Permanent Repair
GP1.1	Debris (Cleared Box from Lanes)	MP 39.40 WB	7/17/2019 00:17:00	Reqd: 1 Hours Respd: 7/17/2019 00:54 Actual: 0.61 Hours	N/A	N/A
GP1.1	Debris (Cleared Box from Lanes)	MP 41.3 EB	7/21/2019 21:00:00	Reqd: 1 Hours Respd: 7/21/2019 21:53 Actual: 0.88 Hours	N/A	N/A
GP1.1	Debris (Cleared Carpet from Lanes)	MP 54.80 EB	7/23/2019 21:00:00	Reqd: 1 Hours Respd: 7/23/2019 21:42 Actual: 0.70 Hours	N/A	N/A
GP1.1	Debris (Cleared Ladder from Lanes)	MP 57.15 EB	7/23/2019 20:00:00	Reqd: 1 Hours Respd: 7/23/2019 20:24 Actual: 0.39 Hours	N/A	N/A
GP1.1	Debris (Cleared Debris from Lanes)	MP 39.55 EB	7/23/2019 23:40:00	Reqd: 1 Hours Respd: 7/24/2019 00:28 Actual: 0.79 Hours	N/A	N/A
GP12.1	Graffiti (Removed Graffiti)	MP 53.5 EB	7/23/2019 23:22:00	N/A	Reqd: 10 Days Respd: 7/24/2019 03:00 Actual: 0.15 Days	N/A
GP14.2	Debris (Cleared Concrete from Shoulder)	MP 39.6 EB	7/24/2019 23:11:00	N/A	N/A	Reqd: 6 Months Respd: 7/25/2019 09:14 Actual: 0.01 Months
GP13.1	Incident Response (Traffic Control for Accident Scene)	MP 52.7 WB	7/24/2019 17:00:00	Reqd: 1 Hours Respd: 7/24/2019 17:29 Actual: 0.48 Hours	N/A	N/A
GP1.1	Debris (Cleared Deer Carcass from Lanes)	MP 41.75 EB	7/24/2019 16:21:00	Reqd: 1 Hours Respd: 7/24/2019 17:03 Actual: 0.70 Hours	N/A	N/A
GP1.1	Debris (Cleared Tire from Lanes)	MP57.3 EB	7/25/2019 00:12:00	Reqd: 1 Hours Respd: 7/25/2019 00:47 Actual: 0.58 Hours	N/A	N/A
GP5.1	Guardrail (Impact Damage)	MP 43.45 EB	7/26/2019 04:45:00	N/A	N/A	Reqd: 6 Months Respd: 7/26/2019 06:23 Actual: 0.01 Months
GP6.1	Sign (Impact Damage)	MP 50.45 EB	7/28/2019 18:22:00	N/A	N/A	Reqd: 6 Months Respd: 7/29/2019 09:46 Actual: 0.02 Months
ML1.1	Debris (Cleared Plastic Container from Lanes)	MP 52.20 WB	7/28/2019 23:30:00	Reqd: 1 Hours Respd: 7/28/2019 23:51 Actual: 0.35 Hours	N/A	N/A
GP1.1	Debris (Cleared Debris from Lanes)	MP 41.8 WB	7/30/2019 14:45:00	Reqd: 1 Hours Respd: 7/30/2019 15:30 Actual: 0.75 Hours	N/A	N/A
GP1.1	Debris (Cleared Tire from Lanes)	MP 54.4 EB	7/30/2019 14:45:00	Reqd: 1 Hours Respd: 7/30/2019 15:30 Actual: 0.75 Hours	N/A	N/A
GP1.1	Debris (Cleared Metal from Lanes)	MP 48.6 EB	7/30/2019 15:00:00	Reqd: 1 Hours Respd: 7/30/2019 15:50 Actual: 0.83 Hours	N/A	N/A

All items were completed within the required response time. Items that are *In Progress* are still within the allowed response time.

F. Detailed Results of All Inspections, Assessments, and Testing Activities

During this reporting period there were no special inspections, assessments, or testing results outside normal operating condition.

G. Monthly Toll System Performance Reports

Toll system operated within proposed parameters per Ferrovial Services observations.

H. Preventative Maintenance Plan and Progress

Preventative Maintenance work is contingent on Initial Works Package implementation.

I, J. Mean Time between Failure (MTBF), Mean Time To Repair (MTTR)

No Maintained Elements experienced a failure type breakdown this month. Ferrovial Services considers a breakdown to be a failure when the element cannot be used for its intended purpose until repaired.

The MSE wall failure at milepost 49.9 is outside the scope of this KPI.