October 2020 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 October 2020. Operationally, October 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 October 2020 in the I-25 Central and US 36 Managed Lanes was 151,364 and 528,017, 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.

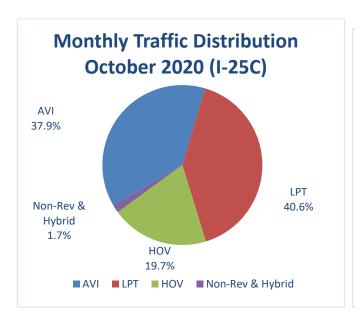
Traffic Summary (US 36)											
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid					
Total Monthly Traffic	254,283	162,418	105,612	5,704	528,017	-					
Maximum Weekday Traffic	12,710	8,312	5,337	339	25,457	-					
Average Weekday Traffic	9,782	5,879	3,294	218	19,173	-					
Average Hourly AM Peak Traffic	850	437	270	18	1,575	N/A					
Average Hourly PM Peak Traffic	1,473	848	451	20	2,792	N/A					





Traffic Summary (I-25C)												
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid						
Total Monthly Traffic	57,430	61,509	29,893	2,532	151,364	-						
Maximum Weekday Traffic	2,713	2,998	1,252	127	6,961	ı						
Average Weekday Traffic	2,337	2,492	1,084	97	5,913	-						
Average Hourly AM Peak Traffic	287	353	144	8	784	N/A						
Average Hourly PM Peak Traffic	305	304	140	8	749	N/A						

Table 1 - Monthly Traffic Summaries



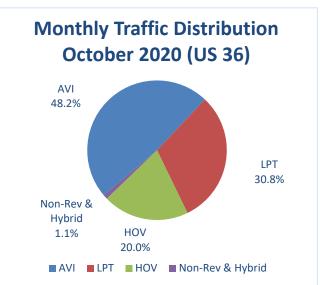
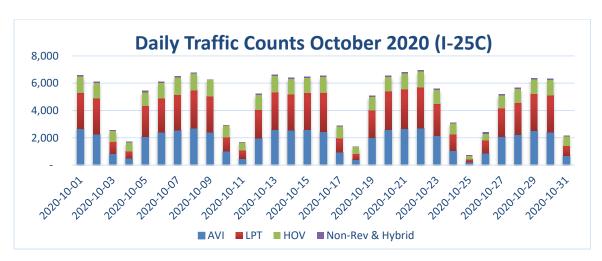


Figure 1 – Monthly Traffic Distribution







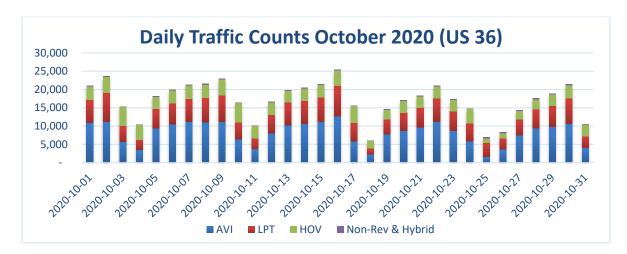


Figure 2 - Daily Traffic Counts

2.0 REVENUES

During the month of October 2020, PRD collected \$402,558 and \$318,508 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.

Date	Start	Stop	Duration
July 27, 2020	10:45	11:27	0:42
September 30, 2020	16:24	17:10	0:46
October 2, 2020	17:10	18:42	1:32
October 13, 2020	05:38	06:23	0:45
October 28, 2020	08:38	10:06	1:58
October 30, 2020	08:32	09:57	1:25
Total			6 hours 8 minutes





Remaining Closure Hours		0 hours 0 minutes
Available (Ref: CA 29.7)		

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

Table 5 – Mean Time Between Failure & Mean Time To Repair





5.0 HYBRID UTILIZATION

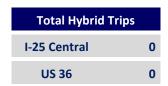


Table 6 – Hybrid Utilization

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 OCTOBER 2020

US 36 and I-25 Express Lanes Project



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 OCTOBER 2020 US 36 and I-25 Express Lanes Project

Revision	Date	Approved
Rev. 0	11/07/2020	Just De

This report titled *Operations and Maintenance Monthly Report, October 2020* has been prepared by Ferrovial Services for the exclusive use of Plenary Roads Denver, LLC (PRD). No other party is an intended beneficiary of this report or the information, opinions, and conclusions contained herein. Any use by any party other than PRD of any of the information, opinions, or conclusions is the sole responsibility of said party. The use of this report shall be at the sole risk of the user regardless of any fault or negligence of PRD or Ferrovial Services.

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 October 2020. 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 toolbox 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:

- Hearing Now and in the Future
- Needle Sticks and Sharp Object Injuries
- Falls
- Portable Fire Extinguishers

A. Summary of the Planned Maintenance Activities for the Upcoming Month – November 2020

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 November 2020 is included below.





FIG. A-1 Planned Maintenance Activities for November 2020

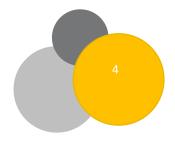
X – *Indicates the day the task is planned.*

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

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 October 2020

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

Performance Standard Identification	Work Activity-	Frequency	Oct-20																														
Number (Table	Description	rrequeriey	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
6.1)			Т	F	S	S	М	Т	w	T	F	S	S	M	Т	w	Т	F	S	S	M	Т	w	Т	F	S	S	M	Т		Т		S
ML-1	MAINTENANCE PATROL	Daily	x	x			х	x	x	x	X			x	x	X	x	x			x	х	x	x	х			x	x	x	x	х	
M11-1	FLEXIBLE PAVEMENT OBSERVATION / REPAIR	F-52					х							х							х							х					
MI-1	RIGID PAVEMENT OBSERVATION / REPAIR	F-52					x							х							x							x					
	CRACK SEALING	F-1					x	x	x	x																							
	DELINEATORS & MARKERS	F-12																				х											
MI-2	OBSERVE / CLEAN / DRAINAGE STRUCTURE	F-1					х	х																									
M1-2	(INLET) INSPECTION DRAINAGE (INLET)	F-12					х	х																									
ML 2	OBSERVE/ CLEAN / DRAINAGE	F-12					х	x																									
MI-5	(PIPE/CULVERT) OBSERVE GUARDRAIL, SAFETY						х										х																
	IMPACT ATTENUATORS						х										X																
	SIGN OBSERVATION /	F-52							х							х							х							х			
	REPAIR STREET LIGHTING	F-52	x																														
	OBSERVATION /REPAIR ELECTRICAL SUPPLY	F-12	X																														
	INSPECTION / REPAIR ACCESS PANEL	F-12	X																														
	OBSERVATION / REPAIR HERBICIDE & WEED		^																														
	CONTROL MAINTENANCE GRAFFITI OBSERVATION /	F-52		X			X											X							X						-	X	
ML-12	REMOVAL MECHANICAL ROAD	F-52					X							X							X							X			\blacksquare	\dashv	
ML-14	SWEEPING LITTER OBSERVATION /	F-12												X	X	X	X	X															
ML-14	REMOVAL NODE BUILDING 2	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	MAINTENANCE SAND STORAGE DOME	F-1									X																						
ML-15	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	
	GATE MAINTENANCE & REPAIR						X														X												







Fig. B-2 Work Accomplished This Month

Activity	Actual Work
103.00 Inspection and Patrol (HR)	22
152.00 Flex Patch /Minor Repairs (SY)	1
163.00 Unpaved Shldr Rebuild (FT)	500
206.00 Ditch Maint (LF)	352
210.00 Slope Repair (CY)	656
218.00 Litter Removal (CY)	9
218.98 Graffiti Removal (SF)	266
220.00 Sweeping Machine (MI)	180
254.00 Veg Mow Hand (HR)	1
256.00 Veg Control Pesticd (ACR)	22
302.00 Sign Single Post Maint (EA)	13
303.00 Sign Multi Post Maint (EA)	3
304.00 Delineator Maint (EA)	332
307.00 Concrete Barrier Maint (LF)	7
314.00 Reversible Lane Operations (HR)	252
329.00 Courtesy Assist (HR)	429
364.00 Deck Exp Maint (LF)	55

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

Ferrovial Services completed all scheduled maintenance activities for the period of October. 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:

Pr	Precipitation Event Start		Equipment Deployed		Precipitation Event End		Service Level "A" Achieved in ML		Service Level "A" Achieved in GP	
10/	25/2020	13:50	10/25/2020	07:00	10/26/2020	20:45	10/26/2020	10:19	10/26/2020	10:19

Courtesy Patrol: None

Hazardous Materials Incidents: None







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				Catego	Category 2		
				Hazard Mitigation	Permanent Remedy	Permanent Repair	
GP5.1	Guardrail (Impact Damage)	MP 54.70 WB	6/23/2020 22:39:00	N/A	N/A	Reqd: 6 Months Respd: Actual: In Progress	
GP5.1	Guardrail (Impact Damage)	MP 43.30 EB	7/20/2020 16:46:00	N/A	N/A	Reqd: 6 Months Respd: Actual: In Progress	
GP5.2	Attenuator (Impact Damage)	MP 43.20 WB	7/20/2020 16:46:00	N/A	N/A	Reqd: 6 Months Respd: Actual: In Progress	
GP6.1	Sign (Impact Damage)	MP 40.45 WB	9/21/2020 16:15:00	N/A	N/A	Reqd: 6 Months Respd: Actual: In Progress	
GP6.1	Sign (Impact Damage)	MP 48.60 EB	9/30/2020 20:54:00	N/A	N/A	Reqd: 6 Months Respd: 10/1/2020 19:30 Actual: 0.03 Months	
GP6.1	Sign (Impact Damage)	MP 48.60 EB	9/30/2020 21:30:00	N/A	N/A	Reqd: 6 Months Respd: 10/1/2020 17:55 Actual: 0.03 Months	
GP5.1	Guardrail (Impact Damage)	MP 44.50 EB	10/1/2020 15:00:00	N/A	N/A	Reqd: 6 Months Respd: Actual: In Progress	
GP1.1	Debris (Removed Tire From Lanes)	MP 45.80 EB	10/2/2020 13:43:00	Reqd: 1 Hours Respd: 10/2/2020 14:08 Actual: 0.41 Hours	N/A	N/A	
GP1.1	Debris (Removed Tire From Lanes)	MP 52.20 WB	10/2/2020 13:45:00	Reqd: 1 Hours Respd: 10/2/2020 14:00 Actual: 0.25 Hours	N/A	N/A	
GP6.1	Sign (Impact Damage)	MP 57.10 WB	10/5/2020 00:40:00	N/A	N/A	Reqd: 6 Months Respd: 10/6/2020 18:55 Actual: 0.05 Months	
GP1.1	Debris (Removed Carpet From Lanes)	MP 42.20 WB	10/5/2020 15:03:00	Reqd: 1 Hours Respd: 10/5/2020 15:20 Actual: 0.25 Hours	N/A	N/A	
GP6.1	Sign (Impact Damage)	MP 45.95 EB	10/6/2020 22:27:00	N/A	N/A	Reqd: 6 Months Respd: 10/6/2020 23:57 Actual: 0.01 Months	
ML1.1	Debris (Removed Concrete From Lanes)	MP 52.00 EB	10/8/2020 14:56:00	Reqd: 1 Hours Respd: 10/8/2020 15:25 Actual: 0.29 Hours	N/A	N/A	
GP6.1	Sign (Impact Damage)	MP 57.10 WB	10/8/2020 11:00:00	N/A	N/A	Reqd: 6 Months Respd: 10/8/2020 18:30 Actual: 0.01 Months	
GP1.1	Debris (Removed Chair From Lanes)	MP 41.00 WB	10/12/2020 14:56:00	Reqd: 1 Hours Respd: 10/12/2020 15:30 Actual: 0.31 Hours	N/A	N/A	
GP1.1	Debris (Removed Debris From Lanes)	MP 48.00 WB	10/13/2020 13:30:00	Reqd: 1 Hours Respd: 10/13/2020 13:50 Actual: 0.28 Hours	N/A	N/A	
GP6.1	Sign (Repaired Leaning Sign Post)	MP 56.00 WB	10/19/2020 09:38:00	N/A	N/A	Reqd: 6 Months Respd: 10/19/2020 13:36 Actual: 0.01 Months	





Response to Defects Element Description Location Notified Category Category 2 **Hazard Mitigation** Permanent Remedy Permanent Repair Reqd: 6 Months 10/19/2020 Sian GP6.1 MP 41.80 EB N/A N/A Respd: 10/19/2020 17:45 (Impact Damage) 14:43:00 Actual: 0.01 Months Reqd: 10 Days 10/22/2020 GP12.1 Graffiti MP 39.10 EB N/A Respd: 10/23/2020 10:53 N/A 11:29:00 Actual: 0.97 Days Reqd: 6 Months 10/24/2020 Guardrail GP5.1 MP 45.90 WB N/A N/A Respd: -(Impact Damage) 06:25:00 Actual: In Progress Read: 6 Months 10/29/2020 GP6.1 MP 43.30 WB N/A Respd: 10/30/2020 08:45 N/A (Straightened Sign) 14:51:00 Actual: 0.02 Months Reqd: 6 Months 10/29/2020 Sign MP 55.00 EB N/A N/A Respd: --(Impact Damage) 20:29:00 Actual: In Progress Reqd: 6 Months 10/29/2020 GP6.1 MP 37.80 EB N/A N/A Respd: 10/30/2020 22:10 (Impact Damage) 14:49:00 Actual: 0.04 Months Reqd: 6 Months 10/29/2020 Sign GP6.1 MP 39.00 EB N/A N/A Respd: 10/30/2020 12:30 (Straightened Sign) 14:51:00 Actual: 0.03 Months

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.