July 2022 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 2022. 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 2022 in the I-25 Central and US 36 Managed Lanes was 212,627 and 994,415, 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.

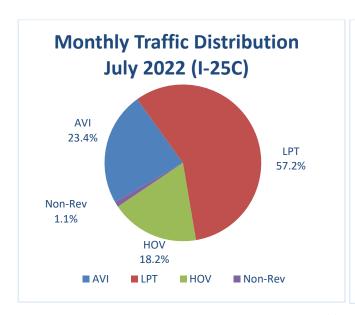
	Traffic	Summary	(US-36)	_	_
	AVI	LPT	Non-Rev	Total	
Total Monthly Traffic	470,026	344,355	174,588	5,446	994,415
Maximum Weekday Traffic	23,981	15,983	7,207	292	46,504
Average Weekday Traffic	18,995	13,388	5,760	228	38,371
Average Hourly AM Peak Traffic	2,097	1,258	489	24	3,868
Average Hourly PM Peak Traffic	2,926	1,991	755	20	5,692





	Traffic Su	mmary (I-250	C)		
	AVI	LPT	HOV	Non Dov	Total
	AVI	LPI	поч	Non-Rev	TOLAI
Total Monthly Traffic	49,820	121,693	38,786	2,328	212,627
Maximum Weekday Traffic	2,849	7,252	1,785	122	10,536
Average Weekday Traffic	2,133	4,950	1,459	95	8,542
Average Hourly AM Peak Traffic	320	713	176	8	1,209
Average Hourly PM Peak Traffic	271	518	167	10	956

Table 1 - Monthly Traffic Summaries



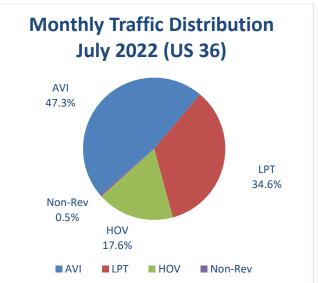
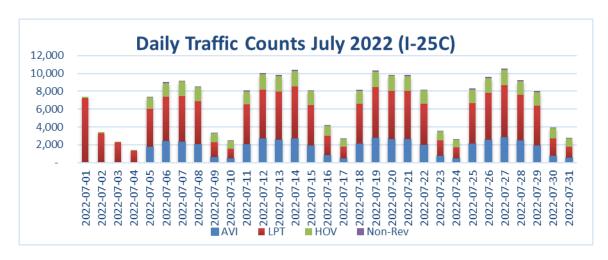


Figure 1 – Monthly Traffic Distribution







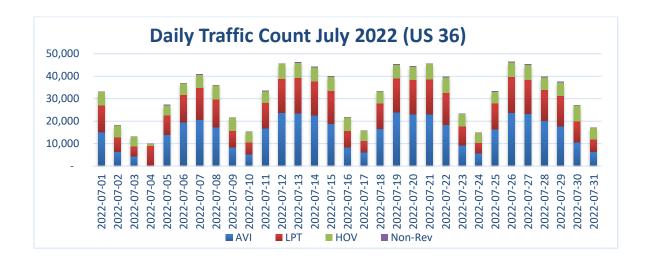


Figure 2 – Daily Traffic Counts

2.0 REVENUES

During the month of July 2022, PRD collected \$600,972 and \$714,906 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 1, 2022	16:12	17:31	1:19
July 1, 2022	17:52	18:59	1:07
July 7, 2022	07:50	08:47	0:57
July 11, 2022	17:26	18:33	1:07
July 12, 2022	16:48	17:17	0:29
July 18, 2022	08:34	09:45	1:11





July 20, 2022	08:35	09:40	1:05
July 21, 2022	06:05	06:32	0:27
July 26, 2022	14:55	15:49	0:54
July 26, 2022	18:38	19:25	0:47
Total			9 hours 23 minutes
Remaining Closure Hours Available (Ref: CA 29.7)			3 hours 37 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-	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	Mean Time To Repair
	(MTBF) (Hours)	(MTTR) (Hours)





None	N/A	N/A

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





OPERATIONS AND MAINTENANCE MONTHLY REPORT JULY 2022

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



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OPERATIONS AND MAINTENANCE — MONTHLY REPORT JULY 2022 US 36 and I-25 Express Lanes Project

Revision	Date	Approved
Rev. 0	08/10/2022	N.1 2:11

This report titled *Operations and Maintenance Monthly Report, July 2022* 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. 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:

- Work Zone Intrusions
- Fatigue Management
- SPECIAL EDITION COVID Prevention & Response
- Secure Your Load
- Incident Trending

A. Summary of the Planned Maintenance Activities for the Upcoming Month

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 are included below.





Fig. A-1 Planned Maintenance Activities for the Upcoming Month

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

Performance Standard Identification	Work Activity- Description	Frequency																Aug	-22														
Number (Table 6.1)	Description		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		21	22	23	24	25	26	27	28	29	30	31
J,			M	Т	W	Т	F	S	S	M	Т	W	Т	F	S	S	M	Т	W	Т	F	S	S	M	Т	W	Т	F	S	S	M	Т	W
ML-1	MAINTENANCE PATROL	Daily	х	Х	х	Х	Х			Х	Х	Х	Х	Х			Х	Х	Х	Х	Х			х	X	Х	Х	Х			X	Х	Х
ML-1	FLEXIBLE PAVEMENT OBSERVATION / REPAIR	F-52			х					х							х							х							х		
ML-1	RIGID PAVEMENT OBSERVATION / REPAIR	F-52			х					х							х							х							х		
ML-2	DRAINAGE (INLET) OBSERVE/ CLEAN / REPAIR	F-12				х																											
IVIL-2	DRAINAGE (PIPE/CULVERT) OBSERVE / CLEAN / RPR	F-12											х																				
ML-4	DELINEATORS & MARKERS OBSERVE / CLEAN / REPAIR	F-12																		х													
IVIL-5	GUARDRAIL, SAFETY BARRIER	F-12											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							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							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	х			х	х	х	х	х			х	х	х	х	х			х	х	х
ML-15	NODE BUILDING 2 MAINTENANCE	F-1											х																				
	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	х	х	х	х			х	х	х	х	х			х	х	х	х	х			х	х	х

Frequency of Activity:

Daily – Daily Activity F-4 – Quarterly Activity F-52 – Weekly 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 Prior Month

																															_	_	
Performance Standard Identification	Work Activity- Description	Frequency															,	Jul-2	2														
Number (Table 6.1)	Description		1	2	3	4	5	6	7	8	9	10	11		13	14	15	16	17		-			22	23	24	25	26	27	28	29	30	31
0.17			F	S	S	М	Т	W	Т	F	S	S	M	Т	W	Т	F	S	S	M	T	W	Т	F	S	S	M	Т	W	Т	F	S	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		
ML-1	FLEXIBLE PAVEMENT OBSERVATION / REPAIR	F-52					X			X							X											X					
ML-1	RIGID PAVEMENT OBSERVATION / REPAIR	F-52					X		X	X							X											X	X				
	DRAINAGE (INLET) OBSERVE/ CLEAN / REPAIR	F-12							x																								
	DRAINAGE (PIPE/CULVERT) OBSERVE / CLEAN / RPR	F-12														X																	
	DELINEATORS & MARKERS OBSERVE / CLEAN / REPAIR	F-12											X		X	X				X							X						
ML-5	GUARDRAIL, SAFETY BARRIER	F-12																					X					х	x	X	х		
	SIGN OBSERVATION / REPAIR	F-52													X						X		X					X	х				
	STREET LIGHTING OBSERVATION /REPAIR	F-52					X								X							X							x				
	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	x	X		
	GRAFFITI OBSERVATION / REMOVAL	F-52					X	x							X								X							x			
ML-14	MECHANICAL ROAD SWEEPING	F-12					X													X	X	X	X	X				X					
	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		
	NODE BUILDING 2 MAINTENANCE	F-1														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 Indicates the day of the month that the task was completed.

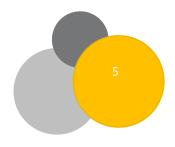






Fig. B-2 Work Accomplished This Month

TASK,CNCRTE,BARRIER,MAINT,307.00,CDOT,FT	514
TASK,COURTESY,ASSISTANCE,329.00,CDOT,HR	360.0
TASK,DELINEATOR,MAINT,304.00,CDOT,EA	86
TASK,FENCE,GATE,MAINT,216.00,CDOT,LF	1
TASK,GRAFFITI,REMOVE,218.98,CDOT,FT2	134
TASK,LITTER,TRASH,CLEAN,218.00,CDOT,YD3	44
TASK,MINOR,DRAINSTR,MAINT,202.00,CDOT,EA	15
TASK,RIGID,PAVEMT,PATCH,152.10,CDOT,YD2	14
TASK,ROADWAY,DEBRIS,HAZD,218.99,CDOT,YD3	6
TASK,SIGN,MULTPOST,MAINT,303.00,CDOT,EA	1
TASK,SIGN,SSGLPOST,MAINT,302.00,CDOT,EA	8
TASK,SLOPE,ERSION,REPAIR,210.00,CDOT,YD3	96
TASK,STRCT,EXPNJNT,MAINT,364.00,CDOT,FT	670
TASK,SWEEPING,MACHINE,220.00,CDOT,MI	209.000
TASK,TRAFFIC,TOLL,OPERAT,314.97,CDOT,HR	252
TASK,TRAINING,MEETING,103.00,CDOT,HR	18.0
TASK,TREE,PLANT,REM,TRIM,260.00,CDOT,EA	4
TASK,VEG,CTRL,DRYLAND,252.00,CDOT,MI	70.000
TASK,VEG,CTRL,PESTICD,256.00,CDOT,AC	8
TASK,VEG,HAND,MOW,TRIM,254.00,CDOT,HR	92.750

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

Ferrovial Services completed all scheduled maintenance activities for the month. 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

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	Description	Location	Notified	Response to Defects		
Category				Categ		Category 2
GP6.1	SIGN RTD (Sign Down)	MP 39.7 WB	3/18/2022 05:04:00	Hazard Mitigation N/A	Permanent Remedy N/A	Permanent Repair Reqd: 6 Months Respd: 7/21/2022 14:00 Actual: 4.17 Months
GP9.1	FENCE (Fence Down)	MP 44.4 WB	6/30/2022 11:17:00	N/A	N/A	Reqd: 6 Months Respd: 7/1/2022 09:00 Actual: 0.03 Months
GP10.4	ROADSIDE (Tree Removed)	MP 39.4 WB	6/30/2022 11:13:00	N/A	N/A	Reqd: 28 Days Respd: 7/1/2022 09:00 Actual: 0.90 Days
GP1.2	POTHOLE	MP 46.4 EB	7/5/2022 17:00:00	N/A	N/A	Reqd: 6 Months Respd: 7/5/2022 22:00 Actual: 0.01 Months
GP1.2	POTHOLE	MP 55.5 WB	7/5/2022 17:00:00	N/A	N/A	Reqd: 6 Months Respd: 7/5/2022 21:00 Actual: 0.01 Months
GP12.1	GRAFFITI	MP 52.1 EB	7/5/2022 17:00:00	N/A	Reqd: 10 Days Respd: 7/5/2022 18:00 Actual: .04 Days	N/A
GP1.2	POTHOLE	MP 46.8 EB	7/5/2022 17:00:00	N/A	N/A	Reqd: 6 Months Respd: 7/5/2022 23:00 Actual: 0.01 Months
GP12.1	GRAFFITI	MP 39.9 EB	7/5/2022 17:00:00	N/A	Reqd: 10 Days Respd: 7/6/2022 18:00 Actual: 1.04 Days	N/A
GP1.2	POTHOLE	MP 55.5 WB	7/5/2022 17:00:00	N/A	N/A	Reqd: 6 Months Respd: 7/5/2022 21:00 Actual: 0.01 Months
GP1.1	DEBRIS (Debris Removed From Lanes)	MP 54.2 EB	7/11/2022 18:30:00	Reqd: 1 Hours Respd: 7/11/2022 18:38 Actual: 0.13 Hours	N/A	N/A
GP12.1	GRAFFITI	MP 39.1 WB	7/13/2022 17:00:00	N/A	Reqd: 10 Days Respd: 7/13/2022 18:00 Actual: 0.04 Days	N/A
GP1.1	DEBRIS (Debris Removed From Lanes)	MP 55.4 EB	7/18/2022 18:30:00	Reqd: 1 Hours Respd: 7/18/2022 19:00 Actual: 0.49 Hours	N/A	N/A
GP12.1	GRAFFITI	MP 52.6 EB	7/19/2022 14:08:00	N/A	Reqd: 10 Days Respd: 7/19/2022 19:30 Actual: 0.22 Days	N/A
GP9.1	FENCE (Fence Down)	MP 43.8 EB	7/19/2022 15:58:00	N/A	N/A	Reqd: 6 Months Respd: 7/27/2022 12:00 Actual: 0.26 Months
GP1.1	DEBRIS (Debris Removed From Lanes)	MP 52.6 EB	7/20/2022 10:37:00	Reqd: 1 Hours Respd: 7/20/2022 11:00 Actual: 0.38 Hours	N/A	N/A
GP5.1	GUARDRAIL (Impact Damage)	MP 45.2 WB	7/21/2022 15:56:00	N/A	N/A	Reqd: 6 Months Respd: 7/27/2022 15:00 Actual: 0.19 Months
GP5.1	BARRIER WALL (Impact Damge)	MP 42.9 EB	7/21/2022 11:04:00	N/A	N/A	Reqd: 6 Months Respd: 7/26/2022 12:00 Actual: 0.16 Months
GP5.1	BARRIER WALL (Impact Damage)	MP 46.2 EB	7/21/2022 12:37:00	N/A	N/A	Reqd: 6 Months Respd: 7/21/2022 19:41 Actual: 0.01 Months
GP6.1	SIGN (Sign Down)	MP 52.5 EB	7/26/2022 20:00:00	N/A	N/A	Reqd: 6 Months Respd: 7/27/2022 20:30 Actual: 0.03 Months
GP1.1	DEBRIS (Debris Removed From Lanes)	MP 55.9 EB	7/30/2022 13:15:00	Reqd: 1 Hours Respd: 7/30/2022 13:40 Actual: 0.41 Hours	N/A	N/A
GP1.1	DEBRIS (Debris Removed From Lanes)	MP 48.0 WB	7/30/2022 07:41:00	Reqd: 1 Hours Respd: 7/30/2022 08:05 Actual: 0.39 Hours	N/A	N/A
GP1.1	DEBRIS (Debris Removed From Lanes)	MP 42.1 WB	7/30/2022 11:00:00	Reqd: 1 Hours Respd: 7/30/2022 11:38 Actual: 0.63 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.