

# June 2016

## Monthly Operations Report



US  
36



I-25



Plenary  
Roads

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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 June 2016. Operationally, June 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

In July 2015, the Managed Lanes for Phase 1 on US 36 began toll operations. At the same time, HOV vehicles were required to use a switchable transponder in order to travel the I-25 and US 36 Managed Lanes at no charge. The traffic patterns immediately shifted towards more ExpressToll™ (AVI) and License Plate (LPT) vehicles and fewer HOV transactions. Over the last several months as more commuters use the transponders for either AVI or HOV travel, LPT transactions have consistently decreased. The total monthly gantry traffic volume for June 2016 in the I-25 Central and US 36 Managed Lanes was 288,927 and 1,165,643, 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 4:30pm – 6:00pm. 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 ten gantries, five gantries in each direction. Therefore, US 36 data will indicate higher 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 (I-25C)						
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid
<b>Total Monthly Traffic</b>	122,441	87,900	64,894	13,692	288,927	2,925
<b>Maximum Weekday Traffic</b>	6,062	4,065	2,700	645	13,400	145
<b>Average Weekday Traffic</b>	5,111	3,356	2,512	589	10,979	126
<b>Average Hourly AM Peak Traffic</b>	752	424	372	82	1,548	N/A
<b>Average Hourly PM Peak Traffic</b>	655	413	338	78	1,406	N/A

Traffic Summary (US 36)						
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid
Total Monthly Traffic	506,675	331,722	285,121	42,125	1,165,643	8,940
Maximum Weekday Traffic	26,735	17,703	11,029	1,939	57,384	437
Average Weekday Traffic	21,368	13,191	9,767	1,815	46,141	376
Average Hourly AM Peak Traffic	3,310	1,753	994	244	6,301	N/A
Average Hourly PM Peak Traffic	3,185	1,819	1,208	234	6,446	N/A

Table 1 – Monthly Traffic Summaries

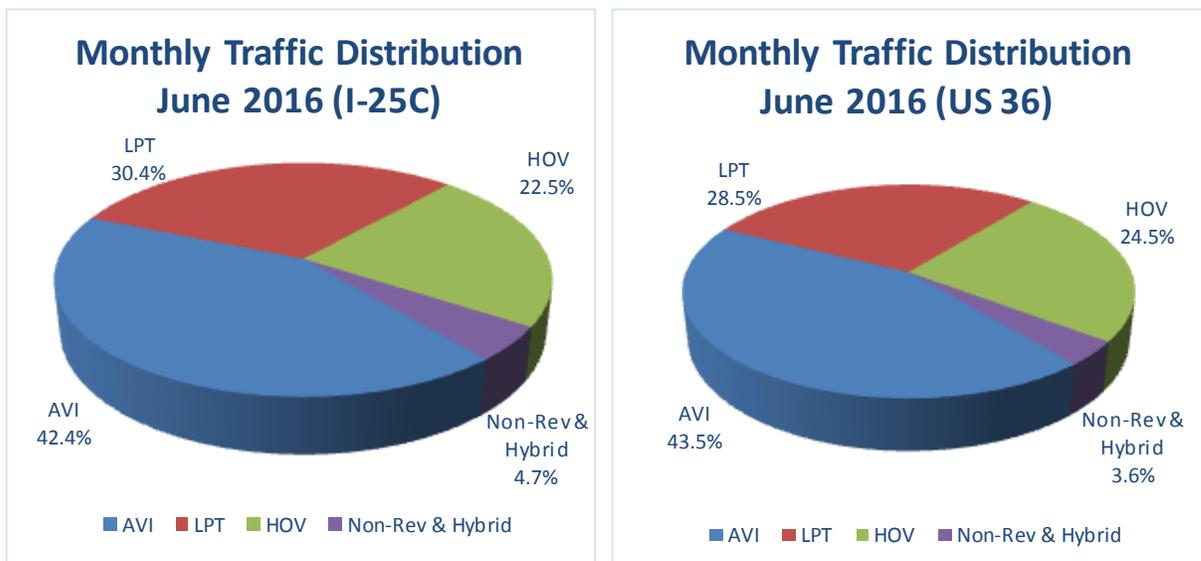
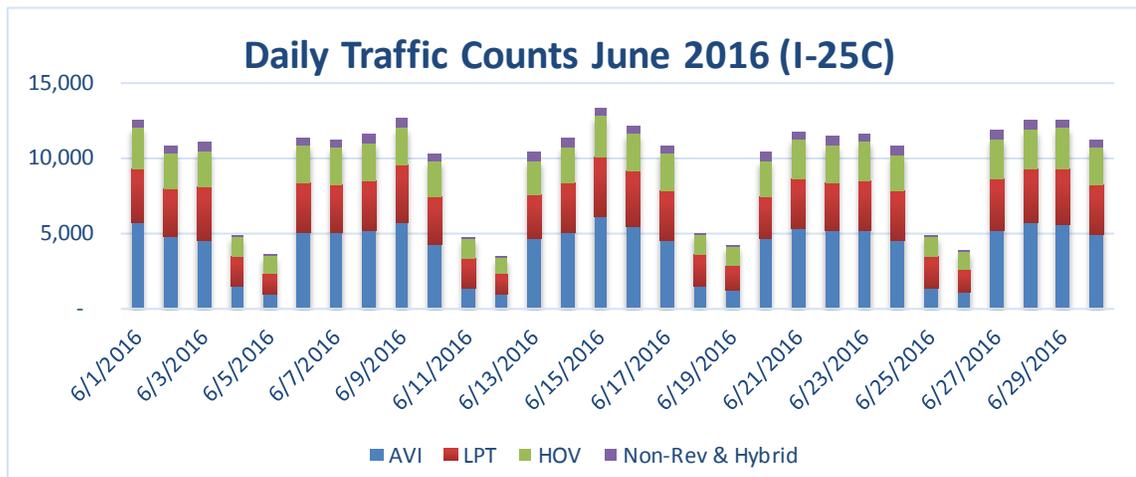


Figure 1 – Monthly Traffic Distribution



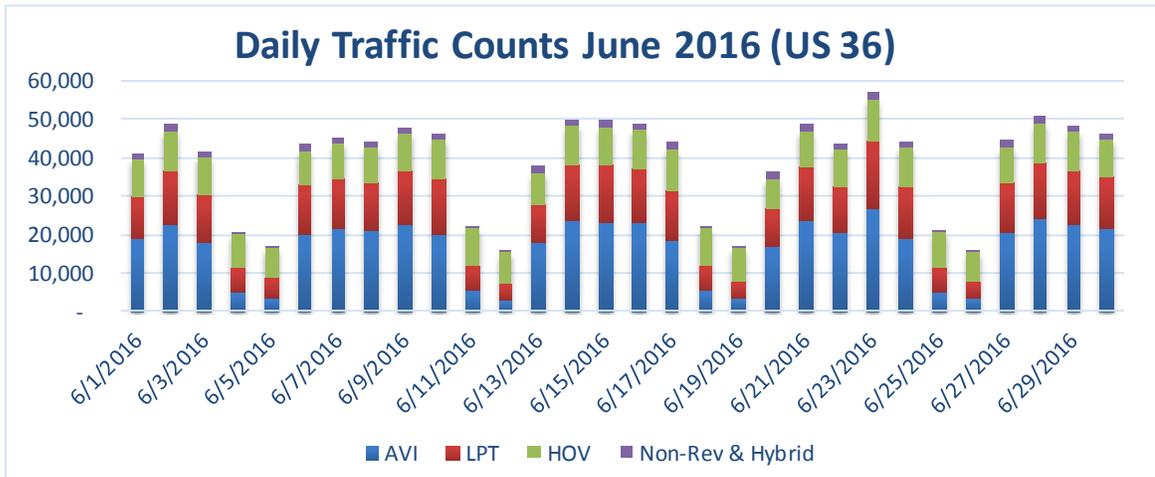


Figure 2 – Daily Traffic Counts

## 2.0 REVENUES

During the month of June 2016, PRD collected \$520,835 and \$347,744 from users of the I-25 Central and US 36 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 debris removals, and vegetation control during the month. Some routine lighting incidents arose and are in process for repair within the allowable response period. All incidents were responded to and rectified within the allowable timeframes. No closures of the managed lanes occurred during the month of June. . Closures have exceeded the twelve hour limit and will be treated according to Section 29.7 (b) of the Concession Agreement.

Date	Start	Stop	Duration
July 3, 2015	12:58:00	13:39:00	0:41
July 6, 2015	05:00:00	06:30:00	1:30
October 2, 2015	10:12:00	12:47:00	2:35
December 7, 2015	08:31:00	09:16:00	0:45
December 10, 2015	08:18:00	09:10:00	0:52
December 10, 2015	14:58:00	15:57:00	0:59

December 17, 2015	08:08:00	08:45:00	0:37
January 5, 2016	17:25:00	18:05:00	0:40
January 11, 2016	18:13:00	18:33:00	0:20
January 14, 2016	07:10:00	07:20:00	0:10
January 20, 2016	16:24:00	16:35:00	0:11
February 1, 2016	08:00:00	08:05:00	0:05
February 25, 2016	16:15:00	17:12:00	0:57
February 26, 2016	06:16:00	6:38:00	0:22
March 14, 2016	17:51:00	18:30:00	0:39
April 27, 2016	18:03:00	19:00:00	0:57
May 12, 2016	16:52:00	17:46:00	0:54
Total			<b>13:14</b>
Remaining Closure Hours Available (Ref: CA 29.7)			<b>(1:14)</b>

Table 2 – Managed Lanes Closures to Date

On April 8, 2016 the eastbound toll points were set to \$0.00 from 4:00 PM to 6:00 PM at the direction of HPTE. This is the first closure case within the last twelve months and it will expire on April 8, 2017.

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

Element Category	Reference	Element	Performance Item	PRD Notified	Contractual Cure Period	Cure Achieved
1. ETCS Equipment	1.1	Lowell EB & WB- "No Heartbeat" in Lane Health Report	ETCS equipment is fully functional	6/11/2016 19:51:00	14 Days	6/12/16 09:51:00 (Duration: 14:00:00)
1. ETCS Equipment	1.3	VTMS 137 Interlocken EB-Lost Communications. Toll rate shown was correct	Toll Message Sign is free from faults	6/20/2016 09:30	24 Hours	6/20/16 11:30:00 (Duration: 02:00:00)

1. ETCS Equipment	1.1	Lowell WB-LPT camera has bad quality color images	ETCS equipment is fully functional	6/21/2016 09:00:00	14 Days	6/21/16 14:30:00 (Duration: 05:30:00)
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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
Promenade West Toll Point	Incorrect toll schedule	Incorrect Toll Schedule was applied during a software update on 3/7/16	3/16/16 (Period II) Customer Accounts Corrected	0	3	3/16/17	3/16/19

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

Total Hybrid Trips	
I-25 Central	2,925
US 36	8,940

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.