

February 2016

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 February 2016. Operationally, February was a positive month. Several major maintenance tasks were completed along with routine maintenance tasks, there were minimal incidents to maintained elements, and traffic volumes were consistent with expectations.

1.0 VOLUMES AND LANE USAGE

On July 22, 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. The total monthly gantry traffic volume for February 2016 in the I-25 Central and US 36 Managed Lanes was 222,816 and 611,103, 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
Total Monthly Traffic	94,869	64,212	53,022	10,713	222,816	3,081
Maximum Weekday Traffic	5,248	3,684	2,495	534	11,961	170
Average Weekday Traffic	4,197	2,473	2,209	484	8,879	142
Average Hourly AM Peak Traffic	641	299	363	70	1,303	N/A
Average Hourly PM Peak Traffic	637	361	326	61	1,324	N/A

Traffic Summary (US 36)						
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid
Total Monthly Traffic	261,830	164,857	158,014	26,402	611,103	6,830
Maximum Weekday Traffic	15,024	8,757	6,901	1,407	30,609	393
Average Weekday Traffic	11,686	6,714	5,455	1,208	25,063	304
Average Hourly AM Peak Traffic	1,753	799	651	159	3,362	N/A
Average Hourly PM Peak Traffic	1,909	995	745	155	3,804	N/A

Table 1 – Monthly Traffic Summaries

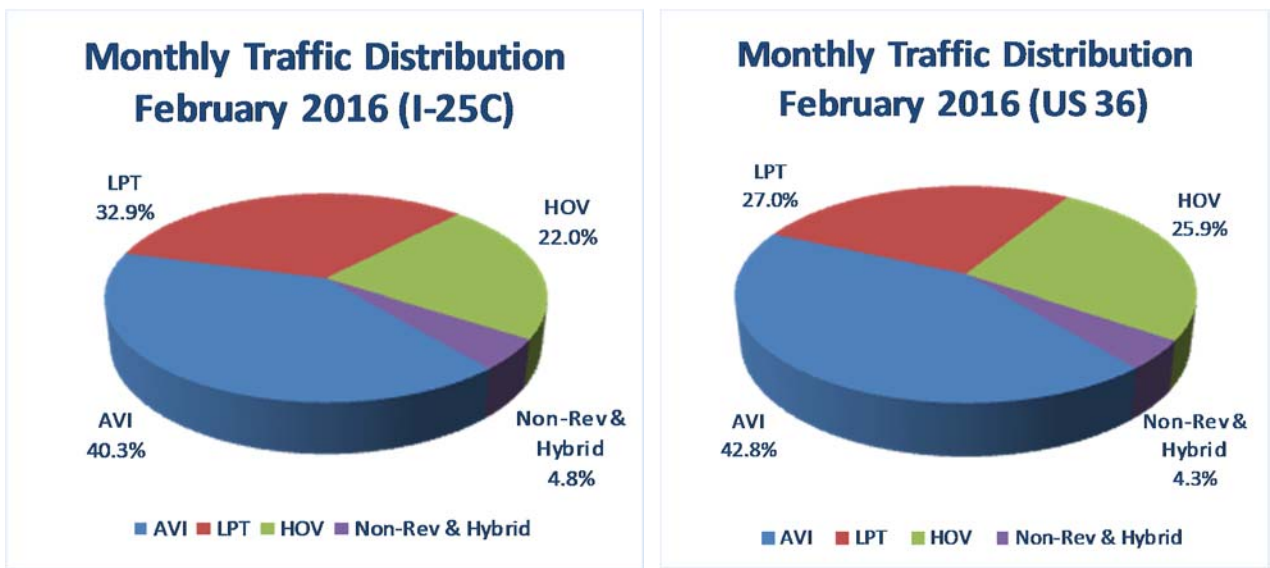
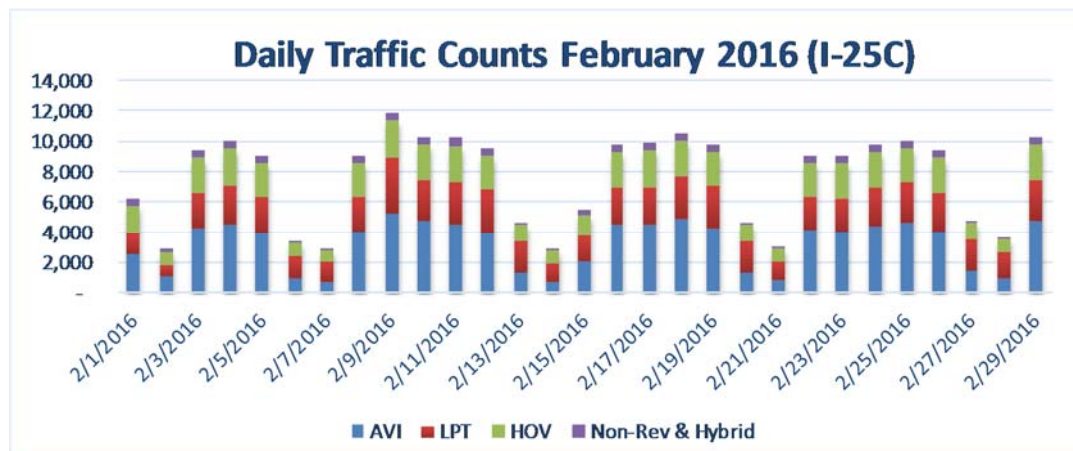


Figure 1 – Monthly Traffic Distribution



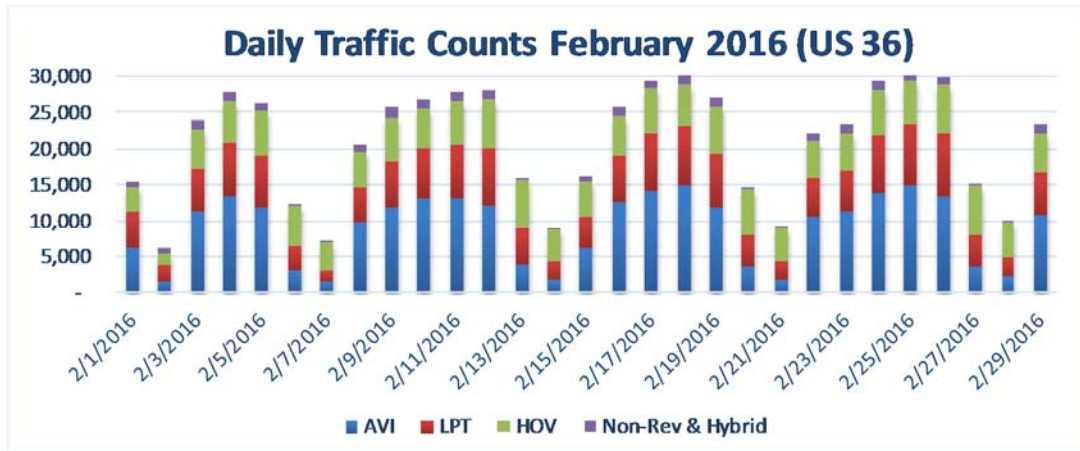


Figure 2 – Daily Traffic Counts

2.0 REVENUES

During the month of February 2016, PRD collected \$407,208 and \$188,854 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, litter removals, a gate arm closing error, and an attenuator was damaged and a guardrail was struck during the month. One sign was damaged. All incidents were responded to and rectified within the allowable timeframes except for an Attenuator repair and some litter removal which are still in the allowable response period. The seven lighting incidents from last month were repaired in February within the allowable response period.

The Managed Lanes were closed by local Police Departments during accidents three times during the month, totaling 1 hour and 24 minutes.

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
Total			10:44
Remaining Closure Hours Available (Ref: CA 29.7)			1:16

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 Category	Reference	Element	Performance Item	PRD Notified	Contractual Cure Period	Cure Achieved
1. ETCS Equipment	1.1	Sheridan WB-Camera lost comms to lane controller	ETCS equipment is fully functional	2/15/2016 08:21:00	14 Days	2/15/16 10:30:00 (Duration: 02:09:00)

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

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 4 – Mean Time Between Failure & Mean Time To Repair

5.0 HYBRID UTILIZATION

Total Hybrid Trips	
I-25 Central	3,081
US 36	6,830

Table 5 – 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.