

December 2015

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 December 2015. Operationally, December was a positive month. Several routine maintenance tasks were completed, there weren’t any incidents to maintained elements, snow and ice equipment was deployed for three storm events, 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. These Managed Lanes had been open to the public at no charge for several weeks prior to that date for toll equipment testing. The total monthly gantry traffic volume for December 2015 in the I-25 Central and US 36 Managed Lanes was 216,487 and 559,850, 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	94,634	70,601	44,707	6,545	216,487	2,956
Maximum Weekday Traffic	5,662	4,140	2,376	340	11,652	189
Average Weekday Traffic	3,959	2,627	1,844	285	8,430	131
Average Hourly AM Peak Traffic	516	274	284	39	1,074	N/A
Average Hourly PM Peak Traffic	546	361	272	41	1,179	N/A

Traffic Summary (US 36)						
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid
Total Monthly Traffic	244,407	167,953	128,243	19,247	559,850	6,736
Maximum Weekday Traffic	16,794	9,782	6,376	983	31,308	447
Average Weekday Traffic	10,370	6,738	4,672	850	22,630	292
Average Hourly AM Peak Traffic	1,324	646	494	120	2,584	N/A
Average Hourly PM Peak Traffic	1,791	1,070	685	121	3,667	N/A

Table 1 – Monthly Traffic Summaries

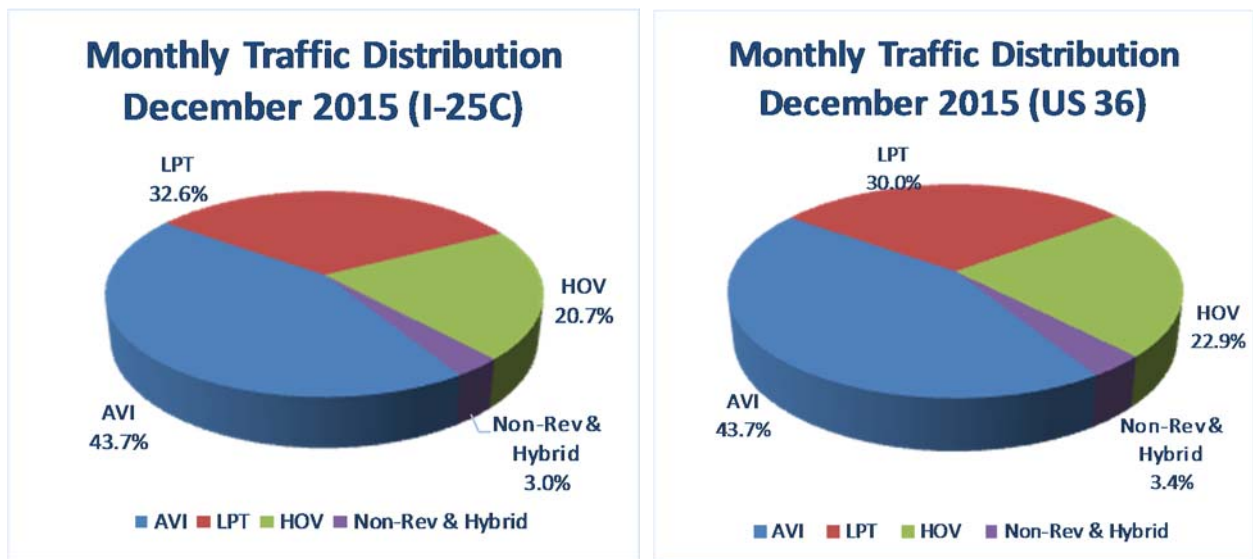
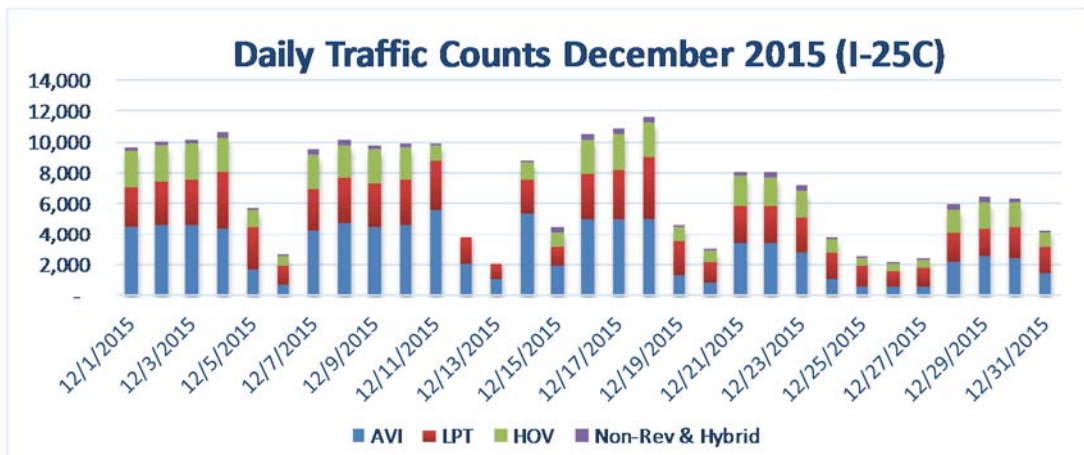


Figure 1 – Monthly Traffic Distribution



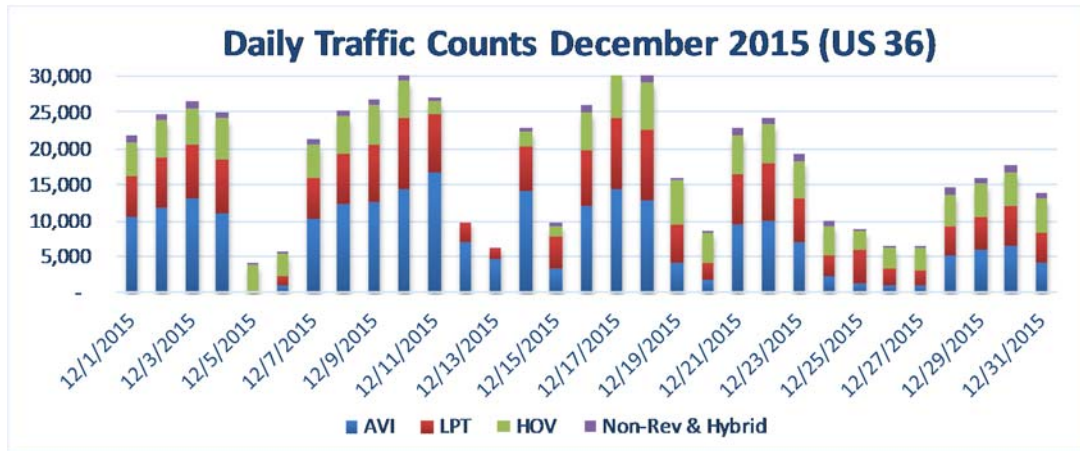


Figure 2 – Daily Traffic Counts

2.0 REVENUES

During the month of December 2015, PRD collected \$407,944 and \$185,563 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, graffiti removals, and litter removals during the month. All incidents were responded to and rectified within the allowable timeframes. Seven routine lighting repair incidents were identified and are expected to be cured within the allowable response period. The Managed Lanes were closed by local Police Departments during accidents four times during the month, totaling 3 hours and 13 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
Total			7:59
Remaining Closure Hours Available (Ref: CA 29.7)			4:01

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	Interlocken WB- Lost communication between camera and lane controller	ETCS equipment is fully functional	12/18/2015 11:00:00	14 Days	12/18/15 12:30:00 (Duration: 01:30:00)
1. ETCS Equipment	1.1	Sheridan EB-“No Heartbeat” in Lane Health Report	ETCS equipment is fully functional	12/20/2015 08:00:00	14 Days	12/20/15 16:30:00 (Duration: 08:30:00)
1. ETCS Equipment	1.1	Promenade WB- “No Heartbeat” in Lane Health Report	ETCS equipment is fully functional	12/21/2015 06:00:00	14 Days	12/21/15 08:00:00 (Duration: 02:00:00)
1. ETCS Equipment	1.1	Interlocken WB- “Reserved” in Lane Health Report	ETCS equipment is fully functional	12/30/2015 05:00:00	14 Days	12/31/15 00:00:00 (Duration: 19:00:00)

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	2,956
US 36	6,736

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.