# METROPOLITAN TRANSPORTATION AUTHORITY LOS ANGELES COUNTY

Photo Enforcement Services



# Expo Line Monthly Report



July 2018



Prepared by: Conduent State and Local Solutions Confidential



### Los Angeles County MTA Expo Line Photo Enforcement Services July 2018 Monthly Report

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### Executive Summary

Conduent is pleased to present the monthly report for the Los Angeles County Metropolitan Transportation Authority's Photo Enforcement Services. This reformatted report has been designed to effectively communicate and reflect useful monthly operations statistics and overall performance. The report covers a detailed activity profile for the active intersections where the automated traffic enforcement systems are installed.

In July 2018, the photo enforcement project for MTA Expo Line captured a total of 12,143 events. The project recorded 714 possible violations and 11,429 non-violations. The LA County Sherriff's Department issued 213 citations reflecting a 30% issuance rate and a controllable issuance rate of 84%.

The following controllable non-issued violations occurred for these reasons and are being addressed:

18 Framing of Car

Both errors are caused by vehicle movement not allowing the image to be framed as needed for evidence; these events will be reviewed and adjustments will be made if possible.

8 Dark Interior

Adjustments have been made to the cameras to avoid this error and we have had a 25% improvement since last

month.

8 Data Entry / 1 Equipment Malfunction

Both of these errors occur when a photo or video do not display; this issue has been addressed and firmware update should fix. Progress will be monitored.

3 Emergency Vehicles

Caused by emergency vehicles while responding to emergencies.

### In the News - Photo Enforcement Around the Country

### **California Deploys Cameras to Catch Carpool Cheaters**

A camera system on an undisclosed stretch of Bay Area freeway is on the lookout for drivers ignoring the rules of the multi-passenger lanes. BY MICHAEL CABANATUAN, SAN FRANCISCO CHRONICLE / APRIL 3, 2018

(TNS) — On an undisclosed Bay Area freeway over the past couple of weeks, a camera system has been counting the people inside every vehicle in the carpool lane in an experiment to detect cheaters.

No tickets or warnings are being issued, but that could change if Bay Area transportation officials are convinced that the technology is the next-generation enforcement answer to a growing number of scofflaws who, despite the risk of a heavy fine, use the region's restricted carpool lanes to shave time off their commute.

Studies by <u>regional transportation agencies</u> and <u>The Chronicle</u> have found that Bay Area carpool lanes reserved for vehicles with two or more occupants — three or more on Interstate 80 — and clean-energy cars are commonly crowded with solo drivers who have no business being there. Tickets run \$490.

In recent months, the California Highway Patrol has increased enforcement, assigning dedicated strike teams working overtime shifts to catch the cheats, but the agency has been unable to abate the problem. Lanes created to move at a decent clip are sometimes as sluggish as the regular lanes, triggering rising frustration in drivers legitimately using the carpool lane and in those stuck in the slower lanes watching cheaters pass them by.

"If the system breaks down because there's no trust in the system and everyone's cheating, that's a problem. I don't think we can just sit by and do nothing," said Randy Rentschler, a spokesman for the Metropolitan Transportation Commission, which oversees carpool-lane operations for the Bay Area.

The camera technology being tested comes from one of three firms with systems that MTC has decided to look at. All three claim their automated systems can snap photos of a passing vehicle, accurately count the number of passengers and send citations to violators. All three will be tested in turn. The MTC will review the results for reliability and effectiveness sometime this summer.

"The goal here is to demonstrate that (the technology) ... can work with a high degree of accuracy," Rentschler said.

Even if the technology proves effective, it could still be a long road to employing the system on Bay Area freeways. The MTC would need state legislation allowing passenger-counting cameras to be used to issue citations. And they'd have to overcome privacy concerns about cameras peering into vehicles, reading license plates and keeping records of the numbers of occupants.

But first, Rentschler said, "We can't even have the political discussions until we prove that we can do it."

Drivers interviewed last week at a Berkeley gas station near Interstate 80, which has the Bay Area's busiest carpool lanes, agreed with the need for better enforcement, but some were leery.

(For full article go to http://www.govtech.com/transportation/California-Deploys-Cameras-to-Catch-Carpool-Cheaters.html)



	100% —															
	80% —	289	321	365	384	361	302	227							Citations	
	60% —	45		-55	42	-58	55	44						4	Controllable	Non-Issued
	40% —	506	481	543	498	508	474	447								le Non-Issued
	20% —				490											
	0%								0	0	0	0	0	Vear to Date	Monthly Average	
Events		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity	%	
Non-Violations Violations		12,066 1,510	11,846 1,526	13,201 1,634	12,255 1,579	13,269 1,615	12,268 1,435	10,918 1,243						12,260 1,506	89% 11%	
violations	Total:	<b>13,576</b>	13,372	14,835	13,834	14,884	<b>13,703</b>	<b>12,161</b>						13,766	100%	
Violations		500	40.4	5.40	100	500	474	4.47				1		10.1	570/	
Uncontrollable Non-Issu Controllable Non-Issued		506 45	481 41	543 55	498 42	508 58	474 55	447 44						494 49	57% 6%	
Citations		289	321	365	384	361	302	227						321	37%	
Non-Violation	Total:	840	843	963	924	927	831	718						864	63%	
Emergency Vehicle Non		20	10	200	24	21	27	21						61	0%	
Issuable			19	300	21			21								
Emergency Vehicle PD Intersection Control in P		0	0	0	0	4	3	1						3	0%	
PD		0	1	0	2	0	1	0						1	0%	
Gate Down/ No Train No Violation Occurred		499 9 737	540 9.547	516	509 9.877	517	454	380						488	4%	
Rear Axle Activation		9,737 90	9,547 85	10,432 80	9,877 94	10,874 57	9,818 66	8,507 68						9,827 77	73% 1%	
Right Turn- No Violation	1	156	145	148	142	167	143	137						148	1%	
Test Shot Amber Time Low		2,230 2	2,180 0	2,380 0	2,255 0	2,306 0	2,351 0	2,314 0						2,288 2	17% 0%	
Vehicle Stopped- PD		675	691	677	663	692	610	529						2 648	5%	
	Total:	13,409	13,208	14,533	13,563	14,638	13,473	11,957						13,544	100%	
Uncontrollabl Administrative Dismissal		ied Violations	0	0	0	0	0	0						0	0%	
Address/CDL/DOB Matc		0	0	0	0	1	0	0						1	0%	
Car Obstructed		6	5	10	12	5	8	1						7	1%	
Conditions Beyond Cont Driver Identity Unclear	trol	0 62	1 54	0 28	0 27	0 12	0 21	0 22						1 32	0% 6%	
Driver Obstructed		21	27	40	38	32	43	26						32	6%	
Exposed		0	1	7	5	6	5	1						4	1%	
Glare on Plate Glare on Windshield		146 35	157 20	126 27	168 40	168 23	122 65	114 76						143 41	28% 8%	
Illegible Plate		3	1	1	1	2	0	5						2	0%	
Interest of Justice- PD Image Quality- PD		0 17	9	0	0 16	1 20	0 21	0 13						1 16	0% 3%	
Issuance Criteria Not Me	et- PD	0	0	0	0	0	0	0						0	0%	
No Warning Sign		1	8	2	2	4	2	10						4	1%	
No Plate No Speed Captured		143 0	141 0	196 0	153 0	177 0	148 0	155 0						159 0	31% 0%	
Obstruction In Photo- PI	D	32	32	23	17	27	21	17						24	5%	
Out of State Plate Obstructed		10	10	15	6	11	10	15						11	2%	
Short Yellow- PD		31 0	23 0	32 0	20 0	27 0	15 0	6						22 0	4% 0%	
Third Party Damage		0	0	0	0	0	0	0						0	0%	
TSB Epired TSB No Hit		0	1	2 42	0	0 10	0 7	0						2 13	0% 3%	
	Total:	508	502	42 565	513	<b>526</b>	488	475						515	100%	
Controllable N	Non-Issued		0	0	0		~	0						0	00/	
Cnduent Expire Clarity of Plate		0	0	0	0	0 2	0	0						0	0% 4%	
Clarity of Driver		0	0	1	0	0	0	0						1	2%	
Dark Interior Data Box Related- PD		12 0	8	13 0	13	16 0	11 0	8						12	23% 0%	
Data Box Related- PD Data Box Data Error- PD	2	0	1	1	0	3	1	0						1	3%	
Data Entry Error		6	9	16	3	4	3	8						7	14%	
Emergency Vehicle Issu Exposed	16	5	6	4	6 0	4	9	3						5	10% 0%	
Equipment Malfunction		5	0	3	0	2	4	1						3	6%	
Framing- PD		0	0	0	0	1	0	0						1	2%	
Framing of Car Framing of Driver		6 0	9	7	15 0	18 0	17 0	18 0						13 0	25% 0%	
Operator Error Framing of Plate		0	0	0	0	0	0	0						0	0%	
Framing of Plate		1	0	0	0	0	0	0						1	2% 0%	
Reject Expired Speed Not Determined		6	4	10	1	10	4	2						5	10%	
	Total:	41	37	55	39	60	49	40						51	100%	
Summary Met Daily Average Vehicle P		19	23	21	19	16	17	21							Nonthly Average	
Average Issued Speed		353	434	355	372	342	317	312						:	355	
Average Issued Red Sec	conds	730	699	850	1,177	1,373	897	1,442							)23.9	
Citiation / Violation Issua	ance	34%	38%	38%	42%	39%	36%	32%						3	7%	
Rate																

4

# Los Angeles County MTA Expo Line Approach Summary Report All Locations 2018



100%													1		
80% —	6	12	15		_		7						·		
60%				12	14	10								Citations	
		0	4				-0-							Controllable Nor	-Issued
40%	10													Uncontrollable N	on-Issued
20% —		14	13	9	9	9	7								
0%												0			
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Date	Monthly Average	
Non-Violations	727	718	731	657	739	616	572	_	-				680	97%	
Violations	17	26	32	22	23	19	14						22	3%	
Total: Violations	744	744	763	679	762	635	586						702	100%	
Uncontrollable Non-Issued	10	14	13	9	9	9	7						10	44%	
Controllable Non-Issued	1	0	4	1	0	0	0						2	9%	
Citations	6	12	15	12	14	10	7						11	47%	
Total: Non-Violations	17	26	32	22	23	19	14						23	53%	
Emergency Vehicle Non-	4		4	0	0	4	4						4	00/	
Issuable	1	1	1	0	0	1	1						1	0%	
Emergency Vehicle PD Intersection Control in Progress-	0	0	0	0	0	0	0						0	0%	
PD	0	0	0	0	0	0	0						0	0%	
Gate Down/ No Train	0	0	0	0	0	0	0						0	0%	
No Violation Occurred Rear Axle Activation	589 8	582 7	595 8	529 5	603 7	491 8	440 11						547 8	80% 1%	
Right Turn- No Violation	0	0	0	0	0	0	0						0	0%	
Test Shot	129	128	127	123	129	116	120						125	18%	1
Amber Time Low	0	0	0	0	0	0	0						0	0%	
Vehicle Stopped- PD Total:	0 <b>727</b>	0 <b>718</b>	0 <b>731</b>	0 657	0 <b>739</b>	0 <b>616</b>	0 572						0 680	0% 100%	
Uncontrollable Non-Issu		/10	731	007	139	010	512						080	100 %	
Administrative Dismissal	0	0	0	0	0	0	0						0	0%	
Address/CDL/DOB Match Fail	0	0	0	0	0	0	0						0	0%	
Car Obstructed Conditions Beyond Control	0	0	0	0	0	0	0						0	0%	
Driver Identity Unclear	0 3	0	0	0	0	0	0						0 2	0% 15%	
Driver Obstructed	0	0	0	0	1	0	0						1	7%	
Exposed	0	0	0	0	0	0	0						0	0%	
Glare on Plate	1	3	0	1	0	1	0						2	10%	
Glare on Windshield Illegible Plate	0	0	1 0	2	1 0	1	0						1	8% 0%	
Interest of Justice- PD	0	0	0	0	0	0	0						0	0%	
Image Quality- PD	0	0	1	0	0	0	0						1	7%	
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0						0	0%	
No Warning Sign No Plate	0 3	03	0 7	0 4	0 5	0 6	0						0	0% 31%	
No Speed Captured	0	0	0	0	0	0	0						0	0%	
Obstruction In Photo- PD	1	2	0	1	1	0	0						1	8%	
Out of State	2	0	1	0	1	0	1						1	8%	
Plate Obstructed Short Yellow- PD	0	0	1 0	0	0	0	0						0	7% 0%	
Third Party Damage	0	0	0	0	0	0	0						0	0%	
TSB Epired	0	0	0	0	0	0	0						0	0%	
TSB No Hit	0	0	0	0	0	0	0						0	0%	
Total: Controllable Non-Issued	10 d Violations	14	13	9	9	9	7						15	100%	
Controllable Non-Issued	0 Violations	0	0	0	0	0	0						0	0%	
Clarity of Plate	0	0	0	0	0	0	0						0	0%	
Clarity of Driver	0	0	0	0	0	0	0						0	0%	
Dark Interior	0	0	0	1	0	0	0						1	25% 0%	
Data Box Related- PD Data Box Data Error- PD	0	0	0	0	0	0	0						0	0%	
Data Entry Error	0	0	0	0	0	0	0						0	0%	
Emergency Vehicle Issue	0	0	0	0	0	0	0						0	0%	
Exposed	0	0	0	0	0	0	0						0	0%	
Equipment Malfunction Framing- PD	1 0	0	3	0	0	0	0						2	50% 0%	
Framing of Car	0	0	0	0	0	0	0						0	0%	
Framing of Driver	0	0	0	0	0	0	0						0	0%	
Operator Error	0	0	0	0	0	0	0						0	0%	
Framing of Plate Reject Expired	0	0	0	0	0	0	0						0	0% 0%	
Speed Not Determined	0	0	0	0	0	0	0						1	25%	
Total:	1	0	4	1	0	0	0						4	100%	
Summary Metrics		1								1				Nonthly Average	
Daily Average Vehicle Passes	0	0	0	0	0	0	0 22							0 23	
Average Issued Speed Average Issued Red Seconds	24 6.2	22 32.9	25 6.9	21 32.3	23 10.5	24 0.6	4.2							3.4	
	35%	46%	47%	55%	61%	53%	50%							9%	
Citiation / Violation Issuance Rate	3370														

### Los Angeles County MTA Expo Line Approach Summary Report Location 5008: SB to EB Flower @ Washington



100% —						
	4	5	12	4	8	7
80% —		2				
60% —	-		2			3
40% —				_	_	
	14	14	18	9	14	13
20%						
0%						
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	1,920	2,136	2,559	2,206	2,576	2,520
Violations	19	21	32	13	23	23
Total:	1,939	2,157	2,591	2,219	2,599	2,543
Violations Uncontrollable Non-Issued	14	14	18	9	14	13
Controllable Non-Issued	14	14 2	2	9 0	14	3
Citations	4	5	12	4	8	7
Total:	19	21	32	13	23	23
Non-Violations						
Emergency Vehicle Non- Issuable	0	0	0	1	0	0
Emergency Vehicle PD	0	0	0	0	0	0
Intersection Control in Progress-	0	0	0	0	0	0
PD						
Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred Rear Axle Activation	1,768 4	1,991 6	2,398 1	2,050 0	2,420 2	2,341 1
Rear Axie Activation Right Turn- No Violation	4	6 0	0	0	0	0
Test Shot	148	139	160	154	154	178
Amber Time Low	0	0	0	0	0	0
Vehicle Stopped- PD	0	0	0	1	0	0
Total:	1,920	2,136	2,559	2,206	2,576	2,520
Uncontrollable Non-Iss		•	· •			
Administrative Dismissal Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	0	0	0	0	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear	1	2	0	0	0	2
Driver Obstructed	3	5	1	0	1	0
Exposed	0	0	0	0	0	0
Glare on Plate	3	2	2	0	1	1
Glare on Windshield	1	0	3	1	1	4
Illegible Plate	0	0	0	0	0	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD Issuance Criteria Not Met- PD	0	0	2	2	0	0
No Warning Sign	0	0	0	0	0	0
No Plate	3	3	6	5	10	5
No Speed Captured	0	0	0	0	0	0
Obstruction In Photo- PD	1	1	1	0	0	0
Out of State	1	0	1	0	1	0
Plate Obstructed	1	1	0	1	0	0
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage	0	0	0	0	0	0
TSB Epired TSB No Hit	0	0	0 2	0	0	0
Total:	14	14	18	9	14	13
Controllable Non-Issue	ed Violations	1	1		1	
Cnduent Expire	0	0	0	0	0	0
Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior Data Box Related- PD	0	0	0	0	0	0
Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error	0	0	2	0	0	0
Emergency Vehicle Issue	0	0	0	0	0	1
Exposed	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	1	1
Framing- PD	0	0	0	0	0	0
Framing of Car	0	0	0	0	0	0
Framing of Driver	0	0	0	0	0	0
Operator Error Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	1	2	0	0	0	1
Total:	1	2	2	0	1	3
Summary Metrics		1	1		1	
Daily Average Vehicle Passes	0	0	0	0	0	0
Average Issued Speed		16	19	20	18	18
Average leaved Ded C	18					
Average Issued Red Seconds	31.2	8.2	15.3	351.0	11.4	13.9
Average Issued Red Seconds Citiation / Violation Issuance Rate Controllable Issuance Rate						

### Los Angeles County MTA Expo Line Approach Summary Report Location 5018: SB to WB Flower @ USC Trade Tech

3	2 0 4							Citations Controllable N Uncontrollable	
		0							
ın-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity	onthly Average %	
,520 23	1,755 6						2,239 20	99% 1%	
23 , <b>543</b>	0 1,761						2,258	1%	
<i>.</i>					2		· ·		
13	4						12	61%	
3 7	0						2 6	9% 30%	
23	6						20	70%	
			1			1			
0	0						1	0%	
0	0						0	0%	
0	0						0	0%	
0	0						0	0%	
,341	1,591						2,080	93% 0%	
1 0	0						3 0	0%	
178	164						157	7%	
0	0						0	0%	
0 , <b>520</b>	0 1,755						1 2,241	0% 100%	
	.,					1	_,		
0	0						0	0%	 
0	0						0	0% 0%	
0	0						0	0%	
2	0						2	9%	
0	0						3	13%	
0 1	0						0	0% 9%	
4	1						2	9%	
0	0						0	0%	
0 1	0						0 2	0% 9%	
0	0						0	0%	
0	0						0	0%	
5 0	2						5	25% 0%	
0	0						1	5%	
0	1						1	5%	
0	0						1 0	5% 0%	
0	0						0	0%	
0	0						0	0%	
0	0						2	10%	
13	4				Service S		19	100%	
0	0						0	0%	
0	0						0	0%	
0	0						0	0% 0%	
0	0						0	0%	
0	0						0	0%	
0 1	0						2	38% 19%	
0	0						0	0%	
1	0						1	19%	
0	0						0	0%	
0	0						0	0% 0%	
0	0						0	0%	
0	0						0	0%	
0 1	0						0	0% 25%	
3	0						5	100%	
						1		onthly Average	
0 18	0 14						1	) 8	
13.9	106.8							o 5.8	
30%	33%						30	1%	
70%	100%						85	6%	



100% — 80% —	1			1	2	1
60% —			2			1
40% —	3			3		
20% —					2	2
0%		0	1			
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	1,056	1,081	1,167	1,156	1,114	1,199
Violations Total:	4	0	3	4	4	4
Violations	1,060	1,081	1,170	1,160	1,118	1,203
Uncontrollable Non-Issued	3	0	1	3	2	2
Controllable Non-Issued	1	0	0	0	0	1
Total:	4	0	3	4	4	4
Non-Violations						1
Emergency Vehicle Non- Issuable	1	0	0	0	0	0
Emergency Vehicle PD	0	0	0	0	0	0
Intersection Control in Progress- PD	0	0	0	0	0	0
Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred Rear Axle Activation	925 0	955 0	1,040 0	1,027 0	980 0	1,065 0
Right Turn- No Violation	0	0	0	0	0	0
Test Shot	130	126	127	129	134	134
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0
Total:	1,056	1,081	1,167	1,156	1,114	1,199
Uncontrollable Non-Iss Administrative Dismissal		0	0	0	0	0
Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	0	0	0	0	0
Conditions Beyond Control Driver Identity Unclear	0	0	0	0	0	0
Driver Obstructed	0	0	0	0	0	0
Exposed	0	0	0	0	0	0
Glare on Plate Glare on Windshield	0 0	0	0	0	0	0
Illegible Plate	0	0	0	0	0	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD Issuance Criteria Not Met- PD	0	0	1	0	0	0
No Warning Sign	0	0	0	0	0	0
No Plate	1	0	0	2	2	2
No Speed Captured Obstruction In Photo- PD	0	0	0	0	0	0
Out of State	0	0	0	0	0	0
Plate Obstructed	0	0	0	0	0	0
Short Yellow- PD Third Party Damage	0	0	0	0	0	0
TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	0	0	0	0
Total: Controllable Non-Issue	3 ed Violations	0	1	3	2	2
Cnduent Expire	0	0	0	0	0	0
Clarity of Plate Clarity of Driver	0	0	0	0	0	0
Dark Interior	0	0	0	0	0	1
Data Box Related- PD	0	0	0	0	0	0
Data Box Data Error- PD Data Entry Error	0	0	0	0	0	0
Emergency Vehicle Issue	1	0	0	0	0	0
Exposed	0	0	0	0	0	0
Equipment Malfunction Framing- PD	0	0	0	0	0	0
Framing of Car	0	0	0	0	0	0
Framing of Driver	0	0	0	0	0	0
Operator Error Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	0	0	0	0
Total: Summary Metrics	1	0	0	0	0	1
Daily Average Vehicle Passes	0	0	0	0	0	0
Average Issued Speed	28	22	17	20	20	0
Average Issued Red Seconds Citiation / Violation Issuance Rate	200.0 0%	61.0 0%	520.2 67%	61.8 25%	89.6 50%	0.0 25%
Controllable Issuance Rate	0%	0%	100%	100%	100%	50%

### Los Angeles County MTA Expo Line Approach Summary Report Location 5028: SB to EB Flower @ 23rd

1	0									
1	_							Citations		
1									NI I I	
	3							Controllable		
2								Uncontrollab	le Non-Issued	
		0	0	0	0	0				
Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Date N Quantity	Ionthly Average %		
1,199	1,086						1,123	100%		
4 1,203	3 <b>1,089</b>						4 1,126	0% 100%		
.,	.,						.,0			
2	3						2	48%		
1	0						1 2	21% 31%		
4	3						5	69%		
			20		1			1	1	
0	0						1	0%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
1,065 0	956 0						993 0	88% 0%		
0	0						0	0%		
134	130						130	12%		
0	0						0	0% 0%		
1,199	1,086						1,124	100%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
0	0						0 2	0% 25%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
0	2						2	33% 0%		
0	0						0	0%		
0	0						1	16%		
0	0						0	0% 0%		
2	1						2	26%		
0	0						0	0%		
0	0						0	0% 0%		
0	0						0	0%		
0	0						0	0% 0%		
0	0						0	0%		
0	0						0	0%		
2	3						6	100%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0% 50%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0% 50%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0% 0%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0% 0%		
0	0						0	0%		
1	0						2	100%		
0	0							Ionthly Average		
0	0						2	21		
0.0	0.0							6.5 2%		
25% 50%	0% 0%							2% 3%		



BDD         I	100%	1		_	0		
60% (%)         3         3         4         3         4         9         0           Nm. Victations         500         614         602         600         543         447           Nm. Victations         500         614         602         600         543         447           Victations         Total:         607         619         600         514         559         448           Uncorrelation Non-Victations         1         1         4         0         1         0           Catatons         1         1         4         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0	80% —		1	4	1		
40%         6         4         7         6         9	60%			3		6	
20%         7         8         9         1           Events         Jan-10         Pab-16         Max-18         Apr-10         Max-18         Jun-1           No-Volations         60         5         114         502         654         145           Volations         60         7         619         660         514         50         489           Volations         1         1         4         0         1         1         2           Controlible Non-issaud         8         5         14         5         16         11           Controlible Non-issaud         1         0							
20%         Nm-Vicking         Sing         Fab.18         Mar./18         Apr./18         Mar./18         Mar	40% —	6	4		4	9	9
Events         Jan-18         Mar-18         Apr-13         May-18         Jan-18           Non-Vickitors         599         614         502         503         643         647           Vitationa         Tota:         607         619         606         514         559         468           Vitationa         1         0         3         1         0         2         2           Cinitions         1         1         44         0         1         0         2           Cinitions         1         1         44         0	20% —		_				
Nex-Matchine         699         614         692         693         643         487           Valuations         697         619         600         514         519         400           Valuations         697         619         600         514         519         400           Uncontrollable Non-Issued         0         3         1         6         2         2           Controllable Non-Issued         1         0         3         1         6         2         2           Controllable Non-Issued         1         3         1         1         0         2         2           Controllable Non-Issued         0         0         0         0         0         0         0         0           Controllable Non-Issued         0 </th <th>0%</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	0%						
Notations         Total:         607         619         606         514         559         489           Uncontrollable Non-Issued         6         4         7         4         9         99           Charlon Sessed         1         0         3         1         6         2           Charlon Sessed         1         1         4         0         1         0           Total 8         5         144         5         16         1         0           Imagency Welkello PD         0						-	Jun-18
Total:         607         619         606         514         559         498           Unconnolitable Non-Issued         6         4         7         4         9         9           Contractione         Total:         8         5         144         0         1         0           Inconviolatione         Total:         8         5         144         0         1         0           Inconviolatione         Total:         8         5         144         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Uncontrollable Non-Issued         6         4         7         4         9         9           Conductable Non-Issued         1         0         3         1         66         2           Carlot Catatons         Total         8         5         14         0         1         0           Enrugrey Vahide PD         0<							498
Centrolization Non-Issued         1         0         3         1         6         2           Chations         1         1         3         11         0         1         0           Non-Violators           1         3         11         1         0         2           Issuable Non- Issuable Non- Catal Davi Northie Non- No Violation Occurred         0<	Violations				:		
Clastions         1         1         4         0         1         0           Total:         8         5         14         5         18         11           Imagenery Vehicle Nor- issuable         1         3         1         1         0         2           Imagenery Vehicle Nor- issuable         0         0         0         0         0         0         0         0           Opticiton Contrul in Progress: Progression Contrul in Progression Ref MA Achivation         6         7         5         11         225         4888           Ref MA Achivation         6         7         5         11         225         4888           Ref MA Achivation         6         7         5         11         225         4888           Amber True Low         1         0         0         0         0         0         0         0           Validits Stopper PD         0         0         0         0         0         0         0         0           Achivatis Stopper PD         0         0         0         0         0         0         0           Optic Identity Unities         0         0         0         0							
Total:         8         5         14         5         16         11           Inversion Vehicle Nor.         1         33         1         1         0         2           Errangerov, Vehicle Nor.         0							
Frenegrey Vehicle Nor- issuable         1         3         1         1         0         2           Energency Vehicle PD         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
issuative         I         S         I         I         I         O         O           Intersection Control in Progress- PD         0         0         0         0         0         0         0         0           Gate Down No Train         0         0         0         0         0         0         0         0         0           Ovadian Occurred         581         559         474         528         4488           Rear Ade Activation         6         7         5         11         2         1           Regret View Intra Low         10         0         0         0         0         0         0         0           Anher Tima Low         1         0<					1	2	
Encregone/Vehicle PD         0         0         0         0         0         0         0         0         0         0         0         0           PD         0         0         0         0         0         0         0         0         0           No Violation Occurred         581         582         589         474         528         468           Rear Avio Activation         6         7         5         11         2         17           Ref Turn No Violation         0		1	3	1	1	0	2
p_D         0         0         0         0         0         0         0           Sete Down Nor Irain         0         0         0         0         0         0           Nor Vickation         6         7         5         11         22         11           Rear Aska Activation         6         7         5         11         22         13         16           Rear Aska Activation         10         12         17         23         133         16           Anther Time Low         1         0	Emergency Vehicle PD	0	0	0	0	0	0
Gate Down No Train         0		0	0	0	0	0	0
Rear Adv Activation         6         7         5         11         2         1           Right Turn- No Violation         0         0         0         0         0         0         0           Test Shot         10         12         17         23         13         16           Arnber Time Low         1         0         0         0         0         0         0         0           Vehicle Stopped- PD         0         0         0         0         0         0         0         0         0           Administrative Dismissal         0		0	0	0	0	0	0
Right Turn- No Violation         0         0         0         0         0         0         0           Test Shot         10         12         17         23         13         16           Ambor Time Low         1         0         0         0         0         0           Vehicle Stopped- PD         0         0         0         0         0         0         0           Administrative Dismissal         0         0         0         0         0         0         0         0           Carl Obstructed         0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>468</td></td<>							468
Test Shat         10         12         17         23         13         16           Arnber Time Low         1         0         0         0         0         0           Vahled Steppel-PD         0         0         0         0         0         0           Vahled Steppel-PD         0         0         0         0         0         0         0           Administrative Dismissal         0<							
Amber Time Low         1         0         0         0         0         0           Vehicle Stopped- PD         0         <	-						
Total:         599         614         592         509         543         447           Uncontrolitable Non-issued Violations                 0<	Amber Time Low	1	0	0	0	0	0
Uncontrollable Non-Issued Violations           Administrative Dismissal         0         0         0         0         0           Administrative Dismissal         0         0         0         0         0         0           Car Obstructed         0				•			
Administrative Dismissal         0         0         0         0         0         0           Address(CDL/DOB Match Fail         0 <td< td=""><td></td><td></td><td>614</td><td>592</td><td>209</td><td>543</td><td>487</td></td<>			614	592	209	543	487
Car Obstructed         0			0	0	0	0	0
Conditions Beyond Control         0         0         0         0         0         0           Driver Identity Unclear         0         0         1         0         0         0           Exposed         0         0         0         0         0         0         0           Glare on Windshield         1         0							
Driver Identity Unclear         0         0         1         0         0           Driver Obstructed         5         3         4         2         5         0           Driver Obstructed         5         3         4         2         5         0           Glare on Plate         0         0         0         0         0         0         0         0           Glare on Windshield         1         0				-			-
Driver Obstructed         5         3         4         2         5         0           Exposed         0							-
Glare on Plate         0         0         0         0         0         0           Glare on Windshield         1         0         0         0         0         0         0           Indeglob Plate         0         0         0         0         0         0         0         0           Indeg Quality- PD         0	-	5	3	4	2	5	0
Glare on Windshield         1         0         0         0         1         0           Illegible Plate         0	-						-
Illegible Plate         0         0         0         0         0         0           Interest of Justice-PD         0         0         0         0         0         0         0         0           Image Quality-PD         0         0         0         0         0         0         0         0           No Varing Sign         0         1         0         2         1         3           No Speed Captured         0         1         0         2         1         3           No Speed Captured         0				-			
Image Quality- PD         0		•		-			-
Issuance Criteria Not Met-PD         0         0         0         0         0         0         0         0           No Plate         0         1         0         2         1         3           No Speed Captured         0         <		0	0	0	0	0	0
No Warning Sign         0				-			-
No Plate         0         1         0         2         1         3           No Speed Captured         0 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td>				-			-
Obstruction In Photo- PD         0         0         1         0         0           Out of State         0         0         1         0         2         0           Plate Obstructed         0         0         0         0         0         0         0         0           Short Yellow- PD         0<				0			3
Out of State         0         0         1         0         2         0           Plate Obstructed         0<				-			-
Plate Obstructed         0							-
Third Party Damage         0         0         0         0         0         0           TSB Epired         0         0         0         0         0         0         0         0           TSB No Hit         0         0         0         0         0         0         0         0           Total:         6         4         7         4         9         9           Controllable Non-Issued Violations         0         0         0         0         0         0           Clarity of Plate         0         0         0         0         0         0         0           Clarity of Driver         0         0         0         0         0         0         0           Data Box Related-PD         0         0         0         0         0         0         0           Emergency Vehicle Issue         0         0         0         0         0         0         0         0           Emergency Vehicle Issue         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			-	-			
TSB Epired         0         0         0         0         0         0           TSB No Hit         0         0         0         0         0         0         0           TSB No Hit         6         4         7         4         9         9           Controllable Non-Issued Violations           Cnduent Expire         0		0	0	0	0	0	0
TSB No Hit         0         0         0         0         0         0         0           Total:         6         4         7         4         9         9           Controllable Non-Issued Violations           9         9           Cnduent Expire         0         0         0         0         0         0         0         0           Clarity of Plate         0							
Total:         6         4         7         4         9         9           Controllable Non-Issued Violations          0							-
Cnduent Expire         0		6	4	7		9	9
Clarity of Plate         0         0         0         0         0         0           Clarity of Driver         0         <			•	•			
Clarity of Driver         0         0         0         0         0         0           Dark Interior         1         0         3         0         5         2           Data Box Related- PD         0         0         0         0         0         0         0           Data Box Data Error- PD         0         0         0         0         0         0         0         0           Data Entry Error         0         0         0         0         1         0	•						
Data Box Related- PD         0	-						
Data Box Data Error- PD         0							
Data Entry Error         0         0         0         1         0         0           Emergency Vehicle Issue         0         0         0         0         1         0           Exposed         0         0         0         0         0         0         0           Equipment Malfunction         0         0         0         0         0         0         0         0           Framing- PD         0         0         0         0         0         0         0         0         0           Framing of Car         0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Emergency Vehicle Issue         0         0         0         1         0           Exposed         0         0         0         0         0         0         0         0           Equipment Malfunction         0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Equipment Malfunction         0         0         0         0         0         0         0         0           Framing PD         0 <td< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	-						
Framing- PD         0         0         0         0         0         0         0           Framing of Car         0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Framing of Car         0         0         0         0         0         0         0         0           Framing of Driver         0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Framing of Driver         0							
Framing of Plate         0         0         0         0         0         0         0           Reject Expired         0	_	0	0	0	0	0	0
Reject Expired         0	•						
Speed Not Determined         0							
Summary Metrics         0							
Daily Average Vehicle Passes         0	Total:	1	0	3	1	6	2
Average Issued Speed         17         15         16         17         18         24           Average Issued Red Seconds         217.2         107.3         162.0         207.7         337.2         164.3           Citiation / Violation Issuance Rate         13%         20%         29%         0%         6%         0%		0	^	0	^		
Average Issued Red Seconds         217.2         107.3         162.0         207.7         337.2         164.2           Citiation / Violation Issuance Rate         13%         20%         29%         0%         6%         0%	· •						
	Average Issued Red Seconds						164.2
							0%
Controllable Issuance Rate         50%         100%         57%         0%         14%         0%	Controllable Issuance Rate	50%	100%	5/%	0%	14%	0%

### Los Angeles County MTA Expo Line Approach Summary Report Location 5038: SB to EB Flower @ Adams

	2									
								Citations		
								Controllable N	lon-Issued	
	9							Uncontrollable		
		0	0	0	0	0				
n-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18		Monthly Average %		
37 1	448 11						542 10	98% 2%		
98	459						552	100%		
9	9						7	62%	1	
2	2						3	23%		
)	0						2	16%		
1	11					19 mm	11	84%		
2	1						2	0%		
)	0						0	0%		
C	0						0	0%		
)	0						0	0%		
58 1	425 2						520 5	96% 1%		
) )	0						0	0%		
6	20						16	3%		
כ ר	0						1	0% 0%		
5 87	448						543	100%		
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)	0						0	0%		
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ว า	0						0	0% 6%		
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- D	0						1	6%		
) `	0						2	9%		
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כ ר	0						0	0% 0%		
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)	0						0	0%		
)	0						0	0%		
) )	0						0	0% 0%		
C	0						0	0%		
2	2						4 Year to Date I	100% Monthly Average		
)	0							0		
4	16							18 D6 4		
4.2 %	249.0 0%							06.4 7%		
%	0%							5%		

8



100%						
	26	26	27	25	27	28
80%	6	-4-	-5-	7	8	
60% —	-		_	_		
40% —	82	78	89	91	106	122
20% —						
0%						
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations Violations	158 114	156 108	151 121	166 123	154 141	163 158
Total:	272	264	272	123 289	295	<b>321</b>
Violations						•=-
Uncontrollable Non-Issued	82	78	89	91	106	122
Controllable Non-Issued	6	4	5	7	8	8
Citations	26	26	27	25	27	28
Total: Non-Violations	114	108	121	123	141	158
Emergency Vehicle Non-	0	2	0	2	1	0
Issuable						0
Emergency Vehicle PD Intersection Control in Progress-	0	0	0	0	1	2
PD	0	1	0	1	0	1
Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred	17	18	17	21	21	18
Rear Axle Activation Right Turn- No Violation	9 0	4	6 0	7 0	11 0	13 0
Test Shot	132	131	128	134	120	129
Amber Time Low	0	0	0	0	0	0
Vehicle Stopped- PD	0	0	0	1	0	0
Total:	158	156	151	166	154	163
Uncontrollable Non-Issu Administrative Dismissal	ued Violations 0	0	0	0	0	0
Address/CDL/DOB Match Fail	0	0	0	0	1	0
Car Obstructed	0	0	0	1	0	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear	20	15	11	14	5	9
Driver Obstructed	9	10	17	18	12	22
Exposed Glare on Plate	0	0	0	0 7	0	0
Glare on Windshield	2	3	ı 14	, 18	13	46
Illegible Plate	0	0	0	0	0	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	2	6	6	6	11	5
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign No Plate	0 29	0 24	0 28	0 21	0 38	0 26
No Speed Captured	0	0	0	0	0	0
Obstruction In Photo- PD	13	10	6	3	17	9
Out of State	1	2	0	1	3	2
Plate Obstructed	5	2	3	2	5	2
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	3	0	0	0
Total:	82	78	89	91	106	122
Controllable Non-Issued				-		1
Cnduent Expire	0	0	0	0	0	0
Clarity of Plate Clarity of Driver	0	0	0	0	0	0
Dark Interior	3	3	4	6	6	5
Data Box Related- PD	0	0	0	0	0	0
Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error	1	0	1	1	0	1
Emergency Vehicle Issue Exposed	0	0	0	0	0	1
Equipment Malfunction	2	0	0	0	0	0
Framing- PD	0	0	0	0	0	0
Framing of Car	0	1	0	0	0	0
Framing of Driver	0	0	0	0	0	0
Operator Error	0	0	0	0	0	0
Framing of Plate Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	0	0	2	1
•	-	-	5	7	8	8
Total:	6	4	5		-	
Summary Metrics						1
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0
Summary Metrics Daily Average Vehicle Passes Average Issued Speed	0 27	0 27	0 28	27	0 27	28
Summary Metrics Daily Average Vehicle Passes	0	0	0		0	

### Los Angeles County MTA Expo Line Approach Summary Report Location 5048: SB to EB Flower at 28th

	<u>19</u> 							Citations Controllable N	on-Issued	
								Uncontrollable	Non-Issued	
		0	0	0	0	0				
า-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18		Nonthly Average %		
63 58	151 141						157 129	55% 45%		
21	292						286	100%		
22	118						98	76%		
8	4						6	5%		
28 <b>58</b>	19 <b>141</b>						25 129	20% 80%		
0	0						0	40/		
0 2	0						2	1% 1%		
2 1	0						1	1%		
0	0						0	0%		
8	15						18	11%		
13 0	5 0						8 0	5% 0%		
29	131						129	81%		
0 0	0						0	0% 1%		
63	151						160	100%		
0	0						0	0%		
0	0						1	1%		
0 0	0						1 0	1% 0%		
9	10						12	12%		
22 0	12 0						14 0	14% 0%		
1	0						3	3%		
16 0	48						20	20%		
0 0	0						0	0% 0%		
5	8						6	6%		
0 0	0						0	0% 0%		
26	28						28	27%		
0 9	0 11						0 10	0% 10%		
2	1						2	2%		
2 0	0						3	3% 0%		
0	0						0	0%		
0 0	0						03	0% 3%		
22	118						103	100%		
0	0						0	0%		
0	0						0	0%		
0 5	0 2						0 4	0% 41%		
0	0						0	0%		
0	0						0	0% 10%		
1	0						1	10%		
0	0						0	0%		
0 0	1						2	15% 0%		
0	0						1	10%		
0	0						0	0% 0%		
0	0						0	0%		
0 1	0						0	0% 15%		
8	4						10	100%		
0	0							Ionthly Average		
28	28						2	27		
9.5 3%	2.9 13%							).9 )%		
3%	83%							1%		

9



100%		1		1	1	
60% —		1	2	1		2
40%	1				4	
		4	-0-	2	4	
20% —			1			1
0% —	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	952	915	1,075	963	977	871
Violations Total:	1 <b>953</b>	6 <b>921</b>	3 <b>1,078</b>	4 967	5 <b>982</b>	4 875
Violations	955	921	1,076	907	962	875
Uncontrollable Non-Issued	0	4	1	2	4	1
Controllable Non-Issued	0	1	0	1	0	1
Total:	1	6	3	4	5	4
Non-Violations			1			
Emergency Vehicle Non- Issuable	0	0	0	0	0	0
Emergency Vehicle PD	0	0	0	0	0	0
Intersection Control in Progress- PD	0	0	0	0	0	0
Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred Rear Axle Activation	804 2	764 2	913 1	818 0	818 1	726 1
Right Turn- No Violation	0	0	0	0	0	0
Test Shot	146	149	161	145	158	144
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0
Total:	<b>952</b>	915	<b>1,075</b>	<b>963</b>	977	871
Uncontrollable Non-Iss			1			
Administrative Dismissal Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	0	0	0	0	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear Driver Obstructed	0	0	0	0	0	0
Exposed	0	0	0	0	0	0
Glare on Plate	0	0	0	0	0	1
Glare on Windshield	0	0	0	0	0	0
Illegible Plate Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	0	0	0	0	0	0
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign No Plate	0	0	0	0	0	0
No Speed Captured	0	0	0	0	0	0
Obstruction In Photo- PD	0	0	0	0	0	0
Out of State Plate Obstructed	0	1	0	1	0	0
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage	0	0	0	0	0	0
TSB Epired TSB No Hit	0	0	0	0	0	0
Total:	0	4	1	2	4	1
Controllable Non-Issue	d Violations				1	
Cnduent Expire Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior	0	1	0	0	0	0
Data Box Related- PD	0	0	0	0	0	0
Data Box Data Error- PD Data Entry Error	0	0	0	0	0	0
Emergency Vehicle Issue	0	0	0	0	0	0
Exposed	0	0	0	0	0	0
Equipment Malfunction Framing- PD	0	0	0	0	0	0
Framing of Car	0	0	0	1	0	0
Framing of Driver	0	0	0	0	0	0
Operator Error Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	0	0	0	1
Total: Summary Metrics	0	1	0	1	0	1
Daily Average Vehicle Passes	0	0	0	0	0	0
Average Issued Speed	16	16	17	22	18	18
Average Issued Red Seconds Citiation / Violation Issuance Rate	46.0 100%	54.5 17%	39.6 67%	97.3 25%	28.0 20%	250.5 50%
Controllable Issuance Rate	100%	17% 50%	67% 100%	25% 50%	20% 100%	50% 67%

### Los Angeles County MTA Expo Line Approach Summary Report Location 5058: SB to EB Flower @ 30th

	1							Citations Controllable No Uncontrollable	
		0	0	0	0	0			
n-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Date M Quantity	Ionthly Average %	
71	902						951	100%	
4 75	2 904						4 954	0% 100%	
					1	1			
1	1						2	49%	
1 2	0						1	22% 29%	
4	2						4	71%	
-					1				
0	0						0	0%	
)	0						0	0%	
)	0						0	0%	
26	0 756						0 800	0% 84%	
20 1	0						1	0%	
כ	0						0	0%	
14	146						150	16%	
)	0						0	0% 0%	
71	902						951	100%	
•	0				1		0	00/	
)	0 0						0	0% 0%	
C	0						0	0%	
)	0						0	0%	
) 1	0						0	0% 0%	
5 D	0						0	0%	
1	0						1	24%	
) 1	0						0	0% 0%	
, )	0						0	0%	
)	0						0	0%	
)	0						0	0% 0%	
)	0						2	53%	
)	0						0	0%	
)	0						0	0% 24%	
) )	0						0	0%	
C	0						0	0%	
)	0						0	0%	
)	0						0	0% 0%	
1	1						4	100%	
<b>)</b>	0				1000 March		0	0%	
)	0						0	0%	
)	0						0	0%	
) )	0						1	33%	
)	0						0	0% 0%	
0	0						0	0%	
)	0						0	0%	
) )	0						0	0% 0%	
- D	0						0	0%	
)	0						1	33%	
ן ר	0						0	0% 0%	
- D	0						0	0%	
0	0						0	0%	
1	0						1 3	33% 100%	
•								Ionthly Average	
)	0							0	
8 0.5	23 419.2							9 3.6	
0.5 )%	419.2 50%							7%	
7%	100%							1%	



100% 80%			13			
60% —	16	10		17	14	9
40% —						
20% —	9	9	15	13	10	7
0%	9					
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	1,151	1,124	1,171	1,086	1,161	1,014
Violations Total:	25 <b>1,176</b>	19 <b>1,143</b>	30 <b>1,201</b>	30 <b>1,116</b>	24 1,185	16 <b>1,030</b>
Violations						1
Uncontrollable Non-Issued Controllable Non-Issued	9 0	9 0	15 2	13 0	10 0	7
Citations	16	10	13	17	14	9
Total:	25	19	30	30	24	16
Non-Violations Emergency Vehicle Non-	4	0	0	0	•	0
Issuable	1	0	0	0	0	0
Emergency Vehicle PD Intersection Control in Progress-	0	0	0	0	0	0
PD Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred	987	971	1,001	931	997	861
Rear Axle Activation	2	1	3	3	0	0
Right Turn- No Violation Test Shot	0 161	0	0 167	0 152	0 164	0 153
Amber Time Low	0	0	0	0	0	0
Vehicle Stopped- PD	0	0	0	0	0	0
Total: Uncontrollable Non-Iss	1,151 sued Violations	1,124	1,171	1,086	1,161	1,014
Administrative Dismissal	0	0	0	0	0	0
Address/CDL/DOB Match Fail Car Obstructed	0	0	0	0	0	0
Conditions Beyond Control	0	0	0	1 0	0	0
Driver Identity Unclear	1	1	0	0	0	0
Driver Obstructed Exposed	0	0	1	1 0	1	0
Glare on Plate	0	1	2	2	1	1
Glare on Windshield	0	0	0	0	0	1
Illegible Plate Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	0	0	1	0	0	0
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign No Plate	0 4	0 6	0	0 7	0	0
No Speed Captured	0	0	0	0	0	0
Obstruction In Photo- PD	1	0	1	0	2	1
Out of State Plate Obstructed	1	1	1	2 0	1	1
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage	0	0	0	0	0	0
TSB Epired TSB No Hit	0	0	0	0	0	0
Total:	9	9	15	13	10	7
Controllable Non-Issue Cnduent Expire	ed Violations	0	0	0	0	0
Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior Data Box Related- PD	0	0	0	0	0	0
Data Box Netated T D	0	0	0	0	0	0
Data Entry Error	0	0	2	0	0	0
Emergency Vehicle Issue Exposed	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0
Framing- PD	0	0	0	0	0	0
Framing of Car Framing of Driver	0	0	0	0	0	0
Operator Error	0	0	0	0	0	0
Framing of Plate	0	0	0	0	0	0
Reject Expired Speed Not Determined	0	0	0	0	0	0
Total:	0	0	2	0	0	0
Summary Metrics	0	^			^	
Daily Average Vehicle Passes Average Issued Speed	0 19	0 19	0 19	0 18	0 20	0 19
Average Issued Red Seconds	0.4	8.1	0.5	3.2	28.0	0.6
Citiation / Violation Issuance Rate Controllable Issuance Rate	64% 100%	53% 100%	43% 87%	57% 100%	58% 100%	56% 100%
	10070	10070	0170	10070	10070	10070

### Los Angeles County MTA Expo Line Approach Summary Report Location 5068: SB to EB Flower @ Jefferson

	15	0	0	0		Citations Controllable Non-Issued Uncontrollable Non-Issued				
n-18	Jul-18	Aug-18	Sep-18	Oct-18	0 Nov-18	Dec-18	Year to Date M Quantity	Ionthly Average %		
)14	951						1,094	98%		
6	26						24	2%		
)30	977						1,118	100%		
7	10						10	41%		
)	1 15						2 13	6% 53%		
9 6	26						25	47%		
							1			
)	0						1	0%		
0	0						0	0%		
)	0						0	0%		
) 61	0 798						0 935	0% 85%		
)	2						2	0%		
)	0						0	0%		
53 D	151 0						157 0	14% 0%		
C	0						0	0%		
)14	951						1,095	100%		
כ	0						0	0%		
)	0						0	0%		
)	0						1 0	5% 0%		
C	1						1	5%		
) 1	2						1 0	6% 0%		
1	2						2	8%		
1	0						1	5%		
) ר	0						0	0% 5%		
- )	0						1	5%		
) 1	0						0	0% 0%		
3	4						5	24%		
)	0						0	0%		
1 1	0						1	6% 6%		
)	0						2	10%		
) า	0						0	0% 0%		
)	0						0	0%		
0	0						3	15%		
7	10						20	100%		
)	0						0	0%		
ว า	0						0	0% 0%		
)	0						0	0%		
)	0						0	0%		
) )	0						0 2	0% 100%		
2 D	0						0	0%		
) า	0 0						0 0	0% 0%		
)	0						0	0%		
)	0						0	0%		
) )	0						0	0% 0%		
)	0						0	0%		
) า	0						0	0%		
) D	0						0 2	0% 100%		
-	2					-	Year to Date M	onthly Average		
) 9	0 17							9 9		
9 .6	0.5							9 .9		
6%	58%							<u>8%</u>		
0%	94%						97	7%		



80%	2 9 	9	3 1 10	4  7	4 5 7	- 4 - 6
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	219	257	327	261	252	211
Violations	11	12	14	12	16	10
Total:	230	269	341	273	268	221
Violations Uncontrollable Non-Issued	9	9	10	7	7	6
Controllable Non-Issued	9 2	9 1	10	7 1	5	4
Citations	0	2	3	4	4	0
Total:	11	12	14	12	16	10
Non-Violations					8	
Emergency Vehicle Non- Issuable	1	1	2	2	3	1
Emergency Vehicle PD	0	0	0	0	0	0
Intersection Control in Progress-	0	0	0	0	0	0
PD Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred	98	127	125	127	112	90
Rear Axle Activation	0	0	1	1	1	0
Right Turn- No Violation	0	0	0	0	0	0
Test Shot	120	129	199	131	136	120
Amber Time Low	0	0	0	0	0	0
Vehicle Stopped- PD Total:	0 <b>219</b>	0	0 <b>327</b>	0	0	0 <b>211</b>
Uncontrollable Non-Iss		257	321	261	252	211
Administrative Dismissal	0	0	0	0	0	0
Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	0	0	0	0	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear	0	1	1	0	0	0
Driver Obstructed	1	0	0	2	0	2
Exposed Glare on Plate	2	0 6	0	3	0	3
Glare on Windshield	0	1	0	0	0	0
Illegible Plate	1	0	0	0	0	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	1	1	0	0	0	0
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign No Plate	0	0	0	0	0 3	0
No Speed Captured	4	0	0	0	0	0
Obstruction In Photo- PD	0	0	0	0	0	0
Out of State	0	0	0	0	0	0
Plate Obstructed	0	0	1	1	0	0
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage	0	0	0	0	0	0
TSB Epired TSB No Hit	0	0	0	0	0	0
Total:	9	9	10	7	7	6
Controllable Non-Issue				1	<u>{</u>	
Cnduent Expire	0	0	0	0	0	0
Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior Data Box Related- PD	0	0	1	1	1 0	1 0
Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error	1	0	0	0	0	0
Emergency Vehicle Issue	0	0	0	0	1	0
Exposed	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	1	0
Framing- PD	0	0	0	0	0	0
Framing of Car Framing of Driver	1 0	1	0	0	1 0	3
Operator Error	0	0	0	0	0	0
Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	0	0	1	0
Total:	2	1	1	1	5	4
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0
Average Issued Speed	0 19	0 20	0 17	0 17	0 17	0 16
Average Issued Red Seconds	42.5	0.5	54.8	24.8	67.6	231.4
Citiation / Violation Issuance Rate	0%	17%	21%	33%	25%	0%
Controllable Issuance Rate	0%	67%	75%	80%	44%	0%

## Los Angeles County MTA Expo Line Approach Summary Report Location 5077: EB to NB Exposition @ Watt

	1									
	2							Citations		
								Controllable N	on-Issued	
	8							Uncontrollable		
$\vdash$										
10		0	0	0	0	0	Year to Date M	Ionthly Average		
n-18 11	Jul-18 217	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity 249	Ionthly Average % 95%		
0	11						12	5%		
21	228						261	100%		
6	8						8	61%		
4 )	2						2	17% 21%		
0	11						13	79%		
1	3						2	1%		
י כ	0						0	0%		
)	0						0	0%		
C	0						0	0%		
0	97						111	44% 0%		
)	1 0						1 0	0%		
20	116						136	54%		
)	0						0	0% 0%		
11	217						250	100%		
)	0						0	0%		
)	0						0	0%		
)	0						0	0% 0%		
)	0						1	8%		
2 )	1 0						2 0	11% 0%		
3	1						3	26%		
) )	2						2	11% 8%		
)	0						0	0%		
) )	0						1 0	8% 0%		
)	0						0	0%		
1 )	4						3	20% 0%		
)	0						0	0%		
) )	0						0	0% 8%		
)	0						0	0%		
ว ว	0						0	0% 0%		
)	0						0	0%		
6	8						13	100%		
)	0						0	0%		
) )	0						0	0% 0%		
1	0						1	15%		
) )	0						0	0% 0%		
) )	0						1	15%		
) า	0						1 0	15% 0%		
) )	0						1	15%		
) 2	0						0 2	0% 24%		
) )	0						0	0%		
ว า	0						0	0% 0%		
) )	0						0	0%		
) 1	0 2						1 7	15% 100%		
r							Year to Date M	onthly Average	Access to the second seco	
) 6	0 17							0 8		
1.4	80.6						71	1.7		
% %	9% 33%							)%		
, 0	0070					1				



100%	9 2 4	4 -0 -9 	7 2 14	13 3 10	4  8	12	8           4           18	0	0	0	0	0	C	Citations Controllable I Uncontrollabl	
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18		Monthly Average	
Non-Violations	288	266	276	315	281	312	374			00.10		20010	Quantity 302	<u>%</u> 94%	
Violations	15	13	270	26	12	13	30						19	6%	
Total:	303	279	299	341	293	325	404						321	100%	
Violations		<u>{</u>			}		1		{						
Uncontrollable Non-Issued	4	9	14	10	8	12	18						11	52%	
Controllable Non-Issued	2	0	2	3	0	1	4						2	12%	
Citations	9	4	7	13	4	0	8						8	36%	
Total:	15	13	23	26	12	13	30						21	64%	
Non-Violations		The second se			1		1						1		
Emergency Vehicle Non- Issuable	1	1	1	3	0	2	0						2	1%	
Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%	
Intersection Control in Progress-	0	0	0	0	0	0	0						0	0%	
PD															
Gate Down/ No Train No Violation Occurred	0	0	0 76	0	0 75	0 70	0						0 75	0% 25%	
Rear Axle Activation	95 1	64 3	76 5	91	75 0	1	56						75 2	25% 1%	
Right Turn- No Violation	0	0	0	0	0	0	0						0	0%	
Test Shot	191	198	194	220	206	239	317						224	74%	
Amber Time Low	0	0	0	0	0	0	0						0	0%	
Vehicle Stopped- PD	0	0	0	0	0	0	0						0	0%	
Total:	288	266	276	315	281	312	374						302	100%	
Uncontrollable Non-Iss	sued Violations														
Administrative Dismissal	0	0	0	0	0	0	0						0	0%	
Address/CDL/DOB Match Fail	0	0	0	0	0	0	0						0	0%	
Car Obstructed	0	0	1	0	0	0	1						1	6%	
Conditions Beyond Control	0	0	0	0	0	0	0						0	0%	
Driver Identity Unclear	0	0	0	0	0	0	0						0	0%	
Driver Obstructed Exposed	0	2	2	0	2	2 0	0						2	12% 0%	
Exposed Glare on Plate	0	3	1	5	4	2	9						4	24%	
Glare on Windshield	0	<u> </u>	0	0	4 0	0	9							6%	
Illegible Plate	0	0	0	0	0	0	0						0	0%	
Interest of Justice- PD	0	0	0	0	0	0	0						0	0%	
Image Quality- PD	0	0	0	0	0	1	0						1	6%	
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0						0	0%	
No Warning Sign	0	0	0	0	0	0	0						0	0%	
No Plate	1	2	4	3	2	3	6						3	18%	
No Speed Captured	0	0	0	0	0	0	0						0	0%	
Obstruction In Photo- PD	0	0	2	1	0	1	1						1	8%	
Out of State	0	0	0	0	0	0	0						0	0%	
Plate Obstructed Short Yellow- PD	3	2	3	1	0	3	0						2	14% 0%	
Short Yellow- PD Third Party Damage	0	0	0	0	0	0	0						0	0%	
TSB Epired	0	0	0	0	0	0	0						0	0%	
TSB No Hit	0	0	1	0	0	0	0						1	6%	
Total:	4	9	14	10	8	12	18						17	100%	
Controllable Non-Issue	ed Violations												• 		
Cnduent Expire	0	0	0	0	0	0	0						0	0%	
Clarity of Plate	0	0	0	0	0	0	0						0	0%	
Clarity of Driver	0	0	0	0	0	0	0						0	0%	
Dark Interior	0	0	0	0	0	0	0						0	0%	
Data Box Related- PD	0	0	0	0	0	0	0						0	0%	
Data Box Data Error- PD	0	0	0	0	0	0	0						0	0%	
Data Entry Error Emergency Vehicle Issue	0	0	0	0	0	0	0						0	0% 22%	
Exposed	0	0	0	0	0	0	0						0	0%	
Equipment Malfunction	0	0	0	0	0	0	0						0	0%	
Framing- PD	0	0	0	0	0	0	0						0	0%	
Framing of Car	1	0	0	3	0	1	3						2	44%	
Framing of Driver	0	0	0	0	0	0	0						0	0%	
Operator Error	0	0	0	0	0	0	0						0	0%	
Framing of Plate	0	0	0	0	0	0	0						0	0%	
Reject Expired	0	0	0	0	0	0	0						0	0%	
Speed Not Determined	1	0	2	0	0	0	0						2	33%	
Total:	2	0	2	3	0	1	4						5	100%	
Summary Metrics	0	^	~	^	^	^	^						Year to Date	Monthly Average	
Daily Average Vehicle Passes	0 17	0	0	0	0	0	0							0 16	
Average Issued Speed Average Issued Red Seconds	17 20.0	15 0.4	16 0.8	16 0.6	15 329.8	16 0.3	16 20.5							16 53.2	
Citiation / Violation Issuance Rate	20.0	0.4 31%	30%	0.6 50%	329.8	0.3	20.5							33.2 39%	
Controllable Issuance Rate	82%	100%	78%	81%	100%	0%	67%							35%	
		- / -	- · · ·		1		- · · ·	1							

## Los Angeles County MTA Expo Line Approach Summary Report Location 5079: WB to SB Exposition @ Bill Robertson



100% —	11					
80% —	<u>14</u> 5	26	24	28	21	27
		5	3	0		
60% —	-			-	_	
40% —	135	84	91	90	88	86
20% —						
0% —						
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	831	865	913	932	900	927
Violations Total:	154 <b>985</b>	115 <b>980</b>	118 <b>1,031</b>	118 <b>1,050</b>	112 <b>1,012</b>	120 <b>1,047</b>
Violations		300	1,001	1,000	1,012	1,041
Uncontrollable Non-Issued	135	84	91	90	88	86
Controllable Non-Issued	5	5	3	0	3	7
Citations	14	26	24	28	21	27
Total: Non-Violations	154	115	118	118	112	120
Emergency Vehicle Non-		-		-	_	
Issuable	2	0	4	2	2	4
Emergency Vehicle PD	0	0	0	0	0	0
Intersection Control in Progress- PD	0	0	0	0	0	0
Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred	688	703	751	768	749	755
Rear Axle Activation	3	10	8	13	4	4
Right Turn- No Violation	0	0	0	0	0	0
Test Shot	138	152	150	149	145	164
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0
Total:	831	865	913	932	900	927
Uncontrollable Non-Iss						
Administrative Dismissal	0	0	0	0	0	0
Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	2	0	1	2	0	0
Conditions Beyond Control	0 18	0	0	0 5	0	0
Driver Identity Unclear Driver Obstructed	0	4	5	3	4	6
Exposed	0	0	0	0	0	0
Glare on Plate	46	48	43	51	54	40
Glare on Windshield	30	12	7	14	5	9
Illegible Plate	0	0	1	0	0	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	10 0	2	1	3	3	6
Issuance Criteria Not Met- PD No Warning Sign	0	0	0	0	0	0
No Plate	22	15	25	12	15	18
No Speed Captured	0	0	0	0	0	0
Obstruction In Photo- PD	3	0	0	0	0	2
Out of State	2	0	2	0	0	2
Plate Obstructed	2	3	2	0	4	0
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	1	0	0	0
Total:	135	84	91	90	88	86
Controllable Non-Issue	d Violations					
Cnduent Expire	0	0	0	0	0	0
Clarity of Plate	0	0	0	0	0	0
Clarity of Driver Dark Interior	0	0	0	0	0	0
Data Box Related- PD	1	0	0	0	0	1 0
Data Box Data Error- PD	0	0	0	0	0	1
Data Entry Error	0	2	2	0	0	2
Emergency Vehicle Issue	0	1	0	0	0	2
Exposed	0	0	0	0	0	0
Equipment Malfunction	0	-				0
· ·	0	0	0	0	0	
Framing- PD	0 0	0 0	0	0	0	0
Framing- PD Framing of Car	0 0 2	0 0 2	0 1	0 0	0 2	0 1
Framing- PD Framing of Car Framing of Driver	0 0	0 0	0	0	0	0
Framing- PD Framing of Car	0 0 2 0	0 0 2 0	0 1 0	0 0 0	0 2 0	0 1 0
Framing- PD Framing of Car Framing of Driver Operator Error	0 0 2 0 0	0 0 2 0 0	0 1 0 0	0 0 0 0	0 2 0 0	0 1 0 0
Framing- PD Framing of Car Framing of Driver Operator Error Framing of Plate Reject Expired Speed Not Determined	0 0 2 0 0 0 0 0 2	0 0 2 0 0 0 0 0 0	0 1 0 0 0 0 0	0 0 0 0 0 0 0	0 2 0 0 0 0 0 1	0 1 0 0 0 0 0
Framing- PD Framing of Car Framing of Driver Operator Error Framing of Plate Reject Expired Speed Not Determined <b>Total:</b>	0 0 2 0 0 0 0	0 0 2 0 0 0 0	0 1 0 0 0 0	0 0 0 0 0 0	0 2 0 0 0 0	0 1 0 0 0 0
Framing- PD Framing of Car Framing of Driver Operator Error Framing of Plate Reject Expired Speed Not Determined <b>Total:</b>	0 0 2 0 0 0 0 0 2 5	0 0 2 0 0 0 0 0 5	0 1 0 0 0 0 0 3	0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 0 1 <b>3</b>	0 1 0 0 0 0 0 7
Framing- PD Framing of Car Framing of Driver Operator Error Framing of Plate Reject Expired Speed Not Determined <b>Total:</b> Summary Metrics	0 0 2 0 0 0 0 2 5 5	0 0 2 0 0 0 0 0 5 5	0 1 0 0 0 0 0 <b>3</b>	0 0 0 0 0 0 0 0 0	0 2 0 0 0 0 1 <b>3</b>	0 1 0 0 0 0 0 7
Framing- PD Framing of Car Framing of Driver Operator Error Framing of Plate Reject Expired Speed Not Determined <b>Total:</b>	0 0 2 0 0 0 0 2 <b>5</b> 0 19	0 0 2 0 0 0 0 0 5	0 1 0 0 0 0 0 3	0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 0 1 <b>3</b> 0 20	0 1 0 0 0 0 0 7
Framing- PD Framing of Car Framing of Driver Operator Error Framing of Plate Reject Expired Speed Not Determined <b>Total:</b> Summary Metrics Daily Average Vehicle Passes Average Issued Speed	0 0 2 0 0 0 0 2 5 5	0 0 2 0 0 0 0 0 5 5	0 1 0 0 0 0 0 <b>3</b> 0 20	0 0 0 0 0 0 0 0 0 0 20	0 2 0 0 0 0 1 <b>3</b>	0 1 0 0 0 0 0 7 7

## Los Angeles County MTA Expo Line Approach Summary Report Location 5087: EB to NB Exposition @ Vermont

	20							Citations Controllable I Uncontrollabl	Non-Issued e Non-Issued	
		0	0	0	0					
n-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Date M Quantity	Ionthly Average %		
27	968						905	88%		
20 <b>)47</b>	106 <b>1,074</b>						120 1,026	12% 100%		
/11	ijor 4						1,020	10070		
6	80						93	77%		
7 :7	6 20						5 23	4% 19%		
20	106						121	81%		
					3				2	
4	0						3	0%		
)	0						0	0%		
C	0						0	0%		
C	0						0	0%		
55 4	791 5						744	82% 1%		
+ )	0						0	0%		
64	172						153	17%		
)	0						0	0%		
) 27	0 <b>968</b>						0 906	0% 100%		
							000	10070		
)	0						0	0%		
) )	0						0 2	0% 2%		
- )	0						0	0%		
6	4						6	6%		
3 า	1 0						3	3% 0%		
.0	35						45	45%		
9	12						13	13%		
) ר	2						2	2% 0%		
5	2						4	4%		
)	0						0	0%		
)	0						0	0%		
8 )	20 0						18 0	18% 0%		
2	1						2	2%		
2	1						2	2%		
) ר	2						3	3% 0%		
) )	0						0	0%		
)	0						0	0%		
) 6	0 <b>80</b>						1 100	1% 100%		
	00						100	10070		
)	0						0	0%		
) ר	0						0	0% 0%		
1	1						1	12%		
C	0						0	0%		
1	03						1 2	12% 26%		
<u>2</u> 2	1						1	16%		
C	0						0	0%		
) )	0						0	0%		
, 1	0						0 2	0% 19%		
)	0						0	0%		
)	0						0	0%		
) J	0						0	0% 0%		
C	1						1	16%		
7	6						9	100%		
)	0							lonthly Average		
:0	20						2	20		
.6	1.1							.6		
3% 9%	19% 77%							9% 1%		
					1				1	



80%		17	22	25	24	
	18			25	24	23
60%					3	
40%		25	43			
20% —	15			29	25	21
0%						
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-'
Non-Violations	585	558	629	657	697	729
Violations Total:	35 620	43 <b>601</b>	68 <b>697</b>	56 <b>713</b>	52 <b>749</b>	45 774
Violations	020	001	001	710	145	11-
Uncontrollable Non-Issued	15	25	43	29	25	21
Controllable Non-Issued	2	1	3	2	3	1
Citations Total:	18 <b>35</b>	17 <b>43</b>	22 68	25 56	24 <b>52</b>	23 45
Non-Violations						
Emergency Vehicle Non- Issuable	0	4	1	1	2	3
Emergency Vehicle PD	0	0	0	0	0	0
Intersection Control in Progress-	0	0	0	0	0	0
PD Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred	461	433	505	523	560	587
Rear Axle Activation	6	4	5	3	1	2
Right Turn- No Violation Test Shot	0	0 117	0	0 130	0 134	0 137
Amber Time Low	0	0	0	0	0	0
Vehicle Stopped- PD	0	0	0	0	0	0
Total:	585	558	629	657	697	729
Uncontrollable Non-Issu Administrative Dismissal	0	0	0	0	0	0
Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	0	0	0	0	0
Conditions Beyond Control Driver Identity Unclear	0 3	0 4	0	0 4	0	0
Driver Obstructed	1	2	3	3	1	4
Exposed	0	0	0	0	0	0
Glare on Plate Glare on Windshield	3	7	9	7	9	4
Illegible Plate	0	0	0	0	1	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	0	0	1	1	3	3
Issuance Criteria Not Met- PD No Warning Sign	0	0	0	0	0	0
No Plate	7	6	17	9	7	5
No Speed Captured	0	0	0	0	0	0
Obstruction In Photo- PD Out of State	1	3	2	2	0	1
Plate Obstructed	0	2	5	2	1	1
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage	0	0	0	0	0	0
TSB Epired TSB No Hit	0	0	2	0	0	0
Total:	15	25	43	29	25	21
Controllable Non-Issued		0	0	0	0	-
Cnduent Expire Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior	0	0	0	0	0	0
Data Box Related- PD Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error	0	0	0	0	0	0
Emergency Vehicle Issue	1	0	1	2	0	0
Exposed Equipment Malfunction	0	0	0	0	0	0
Framing- PD	1	0	0	0	0	0
Framing of Car	0	1	1	0	1	1
Framing of Driver	0	0	0	0	0	0
Operator Error Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	1	0	1	0
Total:	2	1	3	2	3	1
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0
Average Issued Speed	18	19	19	20	20	20
Average Issued Red Seconds	41.4	50.0	0.6	0.5	9.0	0.5
Citiation / Violation Issuance Rate	51%	40%	32%	45%	46%	51%

### Los Angeles County MTA Expo Line Approach Summary Report Location 5089: WB to SB Exposition @ Vermont

	19									
								Citations		
	5							Controllable N	Non-Issued	
	33							Uncontrollable		
		0	0	0	0	0				
-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity	Ionthly Average %		
:9 5	662 57						645 51	93% 7%		
'4	719						696	100%		
1	33			1			27	54%		
•	5						2	5%		
3	19 <b>57</b>						21 51	42% 58%		
5	51						51	30%		
5	2						2	0%		
)	0						0	0%		
)	0						0	0%		
)	0						0	0%		
57 2	521 10						513 4	79% 1%		
)	0						0	0%		
37 )	129 0						126 0	20% 0%		
)	0						0	0%		
9	662						646	100%		_
)	0						0	0%		
)	0						0	0%		
)	0						0	0% 0%		
2	1						3	8%		
	0						2	7% 0%		
,	8						7	21%		
	2						1	4%		
)	0						1	3% 0%		
}	2						2	6%		
)	0						0	0% 0%		
;	17						10	30%		
	0						0 2	0% 5%		
)	0						1	3%		
	2						2	7%		
	0						0	0% 0%		
)	0						0	0%		
) 1	0 33						2 33	6% 100%		
-								10070		
)	0						0	0%		
)	0						0	17% 0%		
)	0						0	0%		
)	0						0	0% 0%		
)	0						0	0%		
)	0						1 0	22% 0%		
)	0						1	17%		
	0						0	0%		
)	4						2	27% 0%		
)	0						0	0%		
)	0						0	0% 0%		
)	1						1	17%		
	5						6 Vear to Date M	100%		
)	0							lonthly Average 0		
0	20						1	9		
5 %	13.1 33%							5.4 3%		
%	79%							)%		



100% —						
	1	2			2	
80% —			2	7		3
60% —	-	_				
40% —	6	9				2
20% —				4	4	3
			1	4		
0%	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	367	296	325	325	768	324
Violations	7	12	3	11	6	8
Total:	374	308	328	336	774	332
Violations Uncontrollable Non-Issued	6	9	1	4	4	3
Controllable Non-Issued	0	1	0	0	0	2
Citations	1	2	2	7	2	3
Total:	7	12	3	11	6	8
Non-Violations Emergency Vehicle Non-	0	0	000		0	2
Issuable	2	2	282	1	0	3
Emergency Vehicle PD Intersection Control in Progress-	0	0	0	0	0	0
PD	0	0	0	0	0	0
Gate Down/ No Train No Violation Occurred	0 318	0 256	0	0 276	0 725	0 271
Rear Axle Activation	0	1	1	1	0	0
Right Turn- No Violation	0	0	0	0	0	0
Test Shot	47	37	42	47	43	50
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0
Total:	367	296	325	325	768	324
Uncontrollable Non-Iss	sued Violations		1			
Administrative Dismissal Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	0	0	0	0	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear	0	1	0	0	0	0
Driver Obstructed	0	0	1	2	0	0
Exposed Glare on Plate	0	0	0	0	0	0
Glare on Windshield	0	1	0	0	0	0
Illegible Plate	0	0	0	0	0	0
Interest of Justice- PD Image Quality- PD	0	0	0	0	0	0
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign	0	0	0	0	0	0
No Plate	5	7	0	2	3	2
No Speed Captured Obstruction In Photo- PD	0	0	0	0	0	0
Out of State	0	0	0	0	1	1
Plate Obstructed	0	0	0	0	0	0
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	0	0	0	0
Total:	6	9	1	4	4	3
Controllable Non-Issue Cnduent Expire	ed Violations 0	0	0	0	0	0
Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior	0	0	0	0	0	0
Data Box Related- PD Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error	0	1	0	0	0	0
Emergency Vehicle Issue	0	0	0	0	0	2
Exposed	0	0	0	0	0	0
Equipment Malfunction Framing- PD	0	0	0	0	0	0
Framing of Car	0	0	0	0	0	0
Framing of Driver	0	0	0	0	0	0
Operator Error Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	0	0	0	0
Total:	-	1	0	0	0	2
Summary Metrics	0	•				
Daily Average Vehicle Passos			0	0	0	0
Daily Average Vehicle Passes Average Issued Speed	0 0 18	0 16	0 21	0 18	0 14	0 17
Average Issued Speed Average Issued Red Seconds	0 18 0.8	0 16 346.9	21 0.3	18 194.9	14 334.4	17 156.6
Average Issued Speed	0 18	0 16	21	18	14	17

# Los Angeles County MTA Expo Line Approach Summary Report Location 5097: EB to NB Exposition @ Raymond

	2									
_								Citations		
								Controllable No	on-Issued	
	4							Uncontrollable	Non-Issued	
		0	0	0	0	0				
า-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Date N Quantity	Ionthly Average %		
24	244						378	98%		
8	6						8	2%		
32	250						386	100%		
3	4						4	50%		
2	2						2	19%		
3	0						3	32%		
8	6						9	68%		_
-	-									
3	0						58	13%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
71 0	221 1						345 1	77% 0%		
0	0						0	0%		
50	22						41	9%		
0	0						0	0%		
0	0						0	0%		
24	244						445	100%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
0 0	0						0	0% 11%		
0	0						2	16%		
0	0						0	0%		
0	0						0	0%		
0	0						1	11%		
0 0	0						0	0% 0%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
2 0	2						4	38% 0%		
0	0						1	11%		
1	2						1	14%		
0	0						0	0%		
0 0	0						0	0% 0%		
0	0						0	0%		
0	0						0	0%		
3	4						9	100%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
0	2						2	40%		
0	0						0	0%		
0 0	0						0	0% 20%		
2	0						2	40%		
0	0						0	0%		
0	0						0	0%		
0 0	0						0	0% 0%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
0	0						0	0%		
0 <b>2</b>	0 2						0 5	0% 100%		
						1 		Ionthly Average	1	
0	0							0		
7	22 384.9							8 2.7		
6.6 3%	0%							2.7 9%		
)%	0%							3%		



100%						
80% —	68					
	00	79	88	94	103	83
60% —	8					
40% —			_			- 8
20% —	78	71	88	68	76	57
0%						
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	485	413	482	435	419	475
Violations	154	156	183	164	183	148
Total: Violations	639	569	665	599	602	623
Uncontrollable Non-Issued	78	71	88	68	76	57
Controllable Non-Issued	8	6	7	2	4	8
Citations Total:	68 <b>154</b>	79 <b>156</b>	88 <b>183</b>	94 <b>164</b>	103 <b>183</b>	83 <b>148</b>
Non-Violations	134	150	105	104	103	140
Emergency Vehicle Non-	5	1	5	2	0	3
Issuable Emergency Vehicle PD	0	0	0	0	3	0
Intersection Control in Progress-	0	0	0	1	0	0
PD Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred	336	294	329	299	286	328
Rear Axle Activation	6	3	2	3	2	7
Right Turn- No Violation	0	0	0	0	0	0
Test Shot Amber Time Low	137 0	115 0	146 0	130 0	128 0	137 0
Vehicle Stopped- PD	1	0	0	0	0	0
Total:	485	413	482	435	419	475
Uncontrollable Non-Iss Administrative Dismissal	sued Violations 0	0	0	0	0	0
Administrative Dismissai	0	0	0	0	0	0
Car Obstructed	2	0	1	2	3	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear Driver Obstructed	6 0	8	5	0	0 4	05
Exposed	0	0	0	0	4	0
Glare on Plate	35	23	22	24	25	11
Glare on Windshield	2	2	1	1	1	0
Illegible Plate Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	3	0	1	3	3	5
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign	0	0	0	0	0	0
No Plate No Speed Captured	21 0	22 0	31 0	31 0	31 0	27 0
Obstruction In Photo- PD	4	7	5	4	5	4
Out of State	0	2	4	0	0	2
Plate Obstructed Short Yellow- PD	5	6 0	6 0	1	4	3
Third Party Damage	0	0	0	0	0	0
TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	9	0	0	0
Total: Controllable Non-Issue	78 ed Violations	71	88	68	76	57
Cnduent Expire	0	0	0	0	0	0
Clarity of Plate	0	0	0	0	0	0
Clarity of Driver Dark Interior	0 5	0	0	0	0	0
Data Box Related- PD	0	0	0	0	0	0
Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error	0	0	2	0	0	0
Emergency Vehicle Issue Exposed	0	1	0	0	0	1 0
Equipment Malfunction	1	0	0	0	0	0
Framing- PD	0	0	0	0	0	0
Framing of Car	1	4	1	1	3	5
Framing of Driver Operator Error	0	0	0	0	0	0 0
Framing of Plate	1	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	1	2	0	1	1
Total: Summary Metrics	8	6	7	2	4	8
Daily Average Vehicle Passes	0	0	0	0	0	0
Average Issued Speed	20	21	20	21	20	21
Average Issued Red Seconds Citiation / Violation Issuance Rate	0.5 44%	0.4 51%	1.3 48%	2.1 57%	1.0 56%	0.5 56%
Controllable Issuance Rate	89%	93%	93%	98%	96%	91%
-						

# Los Angeles County MTA Expo Line Approach Summary Report Location 5107: EB to NB Exposition @ Normandie

	43							Citations Controllable	Non-Issued le Non-Issued	
	33									
10		0	0	0	0	0	Year to Date N	Ionthly Average		
-18 ′5	Jul-18 406	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity 445	Aonthly Average % 74%		
.8	83						153	26%		
3	489						598	100%		_
7	33						67	44%		
}	7						6	4%		
3 • <b>8</b>	43 <b>83</b>						80 153	52% 48%		
						4	1	]		
5	7						4	1%		
)	0						3	1%		
)	0						1	0%		
) :8	0 258						0 304	0% 68%		
,	7						4	1%		
)	0						0	0%		
57 )	134 0						132 0	29% 0%		
)	0						1	0%		
<u>′5</u>	406						450	100%		
)	0						0	0%		
)	0						0	0%		
)	0						2 0	2% 0%		
)	2						5	6%		
;	1						3	3%		
) 1	09						0 21	0% 26%		
)	1						1	2%		
	1 0						1 0	1% 0%		
;	1						3	3%		
)	0						0	0%		
) 7	0 16						0 26	0% 31%		
)	0						0	0%		
	1						4	5% 3%		
}	1 0						2	3% 5%		
)	0						0	0%		
)	0						0	0% 0%		
)	0						9	11%		
7	33						81	100%		
)	0						0	0%		
	0						0	0%		
	0						0 2	0% 19%		
)	0						0	0%		
)	0						0	0%		
	1						2	14% 10%		
)	0						0	0%		
)	0						1 0	10% 0%		
	4						3	26%		
	0						0	0%		
)	0						0	0% 10%		
)	0						0	0%		
}	0 7						1 10	12% 100%		
	•				90		Year to Date N	Ionthly Average		
)	0							0 21		
1 5	21 2.7							.2		
%	52%						5	2%		
%	86%						9	2%		



100%						
80%	30	41	32	47	33	22
60% —					11	5
40%	_	_		12		
20% —	35	51	50	40	33	22
0%	lan 40	Feb-18	Man 40	A.m. 4.0	Mari 40	hun 40
Events Non-Violations	Jan-18 803	705	Mar-18 803	Apr-18 791	May-18 832	Jun-18 802
Violations	66	96	86	99	77	49
Total:	869	801	889	890	909	851
Violations	05	<b>F</b> 4	50	40		00
Uncontrollable Non-Issued Controllable Non-Issued	35 1	51 4	50 4	40 12	33 11	22 5
Citations	30	41	32	47	33	22
Total:	66	96	86	99	77	49
Non-Violations		1		1		
Emergency Vehicle Non- Issuable	0	2	2	1	0	3
Emergency Vehicle PD	0	0	0	0	0	1
Intersection Control in Progress- PD	0	0	0	0	0	0
Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred	603	503	598	609	641	597
Rear Axle Activation	12	8	6	7	3	8
Right Turn- No Violation Test Shot	0	0 192	0 197	0 174	0 188	0 193
Amber Time Low	0	0	0	0	0	0
Vehicle Stopped- PD	0	0	0	0	0	0
Total:	803	705	803	791	832	802
Uncontrollable Non-Issu		0	0	0	0	0
Administrative Dismissal Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	2	2	1	1	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear	1	4	1	2	0	1
Driver Obstructed	1	2	3	3	0	1
Exposed Glare on Plate	0	0 16	0	0	0	0
Glare on Windshield	12 0	0	12 1	12 0	14 0	8
Illegible Plate	0	0	0	0	0	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	1	0	0	0	0	0
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign No Plate	0 12	0 18	0 21	0	0	0
No Speed Captured	0	0	0	0	0	0
Obstruction In Photo- PD	3	4	1	0	0	1
Out of State	1	1	3	0	1	0
Plate Obstructed	4	3	4	3	4	1
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	2	0	0	0
Total:	35	51	50	40	33	22
Controllable Non-Issued	d Violations 0	0	0	0	0	0
Cnduent Expire Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior	0	1	0	2	0	0
Data Box Related- PD	0	0	0	0	0	0
Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error Emergency Vehicle Issue	0	1	1	1	1	0
Exposed	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0
Framing- PD	0	0	0	0	0	0
Framing of Car	1	0	2	8	9	5
Framing of Driver	0	0	0	0	0	0
Operator Error Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	0	0	0	0
Total:	1	4	4	12	11	5
Summary Metrics			0	0	0	0
•	0	∩ ∩			. U	U
Daily Average Vehicle Passes Average Issued Speed	0 20	0 22	22	21	21	22
Daily Average Vehicle Passes						22 0.6
Daily Average Vehicle Passes     Average Issued Speed	20	22	22	21	21	

## Los Angeles County MTA Expo Line Approach Summary Report Location 5109: WB to SB Exposition @ Normandie

	41							Citations		
	3							Controllable N	Ion-Issued	
								Uncontrollable	e Non-Issued	
	38									
		0	0	0	0	0				
n-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Date N Quantity	Ionthly Average %		
)2	777						788	91%		
.9 51	82 <b>859</b>						79 867	9% 100%		
51	009						007	100%		
2	38						38	48%		
5	3						6	7%		
2 9	41 <b>82</b>						35 79	44% 56%		
	~-						10	0070		
3	2						2	0%		
1	0						1	0%		
)	0						0	0%		
)	0						0	0%		
97	594						592	75%		
3	7						7	1%		
) 93	0 174						0 187	0% 24%		
)	0						0	0%		
)	0						0	0%		
02	777	_		_			789	100%		_
)	0						0	0%		
- )	0						0	0%		
C	0						2	3%		
) 1	0 3						0 2	0% 4%		
1	4						2	4 % 5%		
C	0						0	0%		
3	11						12	27%		
2	4						2	5% 0%		
) )	0						0	0%		
C	0						1	2%		
)	0						0	0% 0%		
3	11						15	32%		
)	0						0	0%		
1	1						2	4%		
) 1	3 1						2 3	4% 6%		
)	0						0	0%		
)	0						0	0%		
)	0						1 2	2% 4%		
2	38						46	100%		
)	0						0	0%		
) J	0						0	0% 0%		
- D	0						2	18%		
כ	0						0	0%		
) ר	0						0	0% 12%		
) )	0						1	12%		
C	0						0	0%		
)	0						0	0%		
ן ס	03						0	0% 55%		
- )	0						0	0%		
0	0						0	0%		
כ ר	0						0	0% 0%		
)	0						0	0%		
5	3					1	8	100%		
								Ionthly Average		
) 2	0 21							0 21		
.6	21							.7		
5%	50%						44	4%		
%	93%						87	7%		



100%						
80% —	20		23	13	16	14
60% —		26			_	_
40% —			4		5	
			10	23		13
20% —	13	16	19		12	
0% —						
Events Non-Violations	Jan-18 616	Feb-18 585	Mar-18 642	Apr-18 537	May-18 642	Jun-18 541
Violations	35	42	46	37	33	28
Total:	651	627	688	574	675	569
Violations Uncontrollable Non-Issued	10	16	10	23	12	13
Controllable Non-Issued	13 2	0	19 4	23 1	12 5	13
Citations	20	26	23	13	16	14
Total:	35	42	46	37	33	28
Non-Violations Emergency Vehicle Non-						
Issuable	2	1	0	2	3	1
Emergency Vehicle PD Intersection Control in Progress-	0	0	0	0	0	0
PD	0	0	0	0	0	0
Gate Down/ No Train	0	0	0	0	0	0
No Violation Occurred Rear Axle Activation	487 0	456 3	499 2	402 0	494 1	403 0
Right Turn- No Violation	0	0	0	0	0	0
Test Shot	127	124	141	133	144	137
Amber Time Low	0	0	0	0	0	0
Vehicle Stopped- PD Total:	616	585	642	5 <b>37</b>	642	541
Uncontrollable Non-Iss	sued Violations		1			
Administrative Dismissal	0	0	0	0	0	0
Address/CDL/DOB Match Fail Car Obstructed	0	0	0	0 3	0	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear	1	3	0	0	0	0
Driver Obstructed	0	0	0	2	1	1
Exposed Glare on Plate	0	0	0	0	0	0
Glare on Windshield	0	0	0	1	0	1
Illegible Plate	1	1	0	0	0	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD Issuance Criteria Not Met- PD	0	0	0	1 0	0	0
No Warning Sign	0	0	0	0	0	0
No Plate	6	4	9	6	3	4
No Speed Captured Obstruction In Photo- PD	0	0	0	0	0	0
Out of State	0	1	0	0	0	1
Plate Obstructed	1	1	1	3	6	2
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	3	0	0	0
Total:	13	16	19	23	12	13
Controllable Non-Issue Cnduent Expire	ed Violations 0	0	0	0	0	0
Clarity of Plate	0	0	0	0	1	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior	1	0	1	1	2	0
Data Box Related- PD Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error	0	0	1	0	1	0
Emergency Vehicle Issue	1	0	1	0	1	0
Exposed Equipment Malfunction	0	0	0	0	0	0
Framing- PD	0	0	0	0	0	0
Framing of Car	0	0	1	0	0	0
Framing of Driver	0	0	0	0	0	0
Operator Error Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	0	0	0	0
Total:	2	0	4	1	5	1
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0
Average Issued Speed	16	17	18	17	17	16
Average Issued Red Seconds	64.8	15.4	28.3	154.4	101.9	47.5
Citiation / Violation Issuance Rate Controllable Issuance Rate	57% 91%	62% 100%	50% 85%	35% 93%	48% 76%	50% 93%
	5170	100/0	0070	5570	10/0	5070

## Los Angeles County MTA Expo Line Approach Summary Report Location 5117: EB to NB Exposition @ Halldale

	2									
	1							Citations		
								Controllable	Non-Issued	
	6									
								Uncontrollabl	e Non-Issued	
		0	0	0	0	0				
-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Date M Quantity	onthly Average %		
1	457	-	•				574	95%		
8	9						33	5%		
9	466						607	100%		
3	6						15	44%		
	1						2	7%		
4 8	2 9						16 33	49% 51%		
-	Ŭ						00	0170		
	1						2	0%		
	0						0	0%		
	0						0	0%		
)	0						0	0%		
3	334						439	76%		
)	1						2	0% 0%		
, 57	121						132	23%		
)	0						0	0%		
)	0						1	0%		
1	457						576	100%		
)	0						0	0%		
	0						0	0%		
	0						3	11% 0%		
)	0						2	8%		
	0						1	6%		
	0						0 2	0% 7%		
	0						1	4%		
	0						1	4%		
)	0						0	0%		
)	0						1 0	4% 0%		
)	0						0	0%		
ļ	5						5	22%		
	0						0 2	0% 8%		
	1						1	4%		
2	0						2	10%		
)	0						0	0% 0%		
)	0						0	0%		
)	0						3	13%		
3	6						24	100%		
)	0						0	0%		
	0						1	16%		
	0						0	0% 19%		
)	0						0	0%		
)	0						0	0%		
)	0						1	16%		
)	0						1 0	16% 0%		
	0						1	16%		
	0						0	0%		
)	0						1 0	16% 0%		
	0						0	0%		
	0						0	0%		
)	0						0	0% 0%		
	1						6	100%		
-				1		1	Year to Date M	onthly Average		
) 6	0 17						(	) 7		
6 .5	17							7 5.4		
%	22%						46	6%		
%	67%						86	5%		



100% —						
80% —	_				_	20
60% —	34	27	34	43	41	
		4	4			3
40% —	4			5	4	
20% —	18	19	24	24	21	16
0%						
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations Violations	372 56	347 50	399 62	404 72	396 66	407 39
Total:	428	397	461	476	462	446
Violations Uncontrollable Non-Issued	18	19	24	24	21	16
Controllable Non-Issued	4	4	24 4	24 5	4	3
Citations	34	27	34	43	41	20
Total:	56	50	62	72	66	39
Non-Violations Emergency Vehicle Non-	4	0	0	2	E	4
Issuable	1	0	0	3	5	1
Emergency Vehicle PD Intersection Control in Progress-	0	0	0	0	0	0
PD	0	0	0	0	0	0
Gate Down/ No Train No Violation Occurred	0 217	0 207	0 242	0 251	0 230	0 235
Rear Axle Activation	12	12	13	18	9	8
Right Turn- No Violation	0	0	0	0	0	0
Test Shot	142	128	144	132	152	163
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0
Total:	372	347	399	404	396	<b>407</b>
Uncontrollable Non-Iss						
Administrative Dismissal Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	0	0	2	0	0
Conditions Beyond Control	0	0	0	0	0	0
Driver Identity Unclear	2	0	1	0	1	0
Driver Obstructed Exposed	1 0	0	0	0	0	0
Glare on Plate	2	7	5	12	6	6
Glare on Windshield	0	0	0	0	0	0
Illegible Plate	1	0	0	1	0	0
Interest of Justice- PD Image Quality- PD	0	0	0	0	0	0
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign	0	0	0	0	0	0
No Plate No Speed Captured	9 0	8	14 0	8	13 0	10 0
Obstruction In Photo- PD	1	3	2	0	0	0
Out of State	0	0	0	0	0	0
Plate Obstructed	2	1	1	1	1	0
Short Yellow- PD Third Party Damage	0	0	0	0	0	0
TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	1	0	0	0
Total: Controllable Non-Issue	18 Ind Violations	19	24	24	21	16
Cnduent Expire	0	0	0	0	0	0
Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior Data Box Related- PD	1 0	2	2	1 0	1 0	0
Data Box Data Error- PD	0	0	0	0	0	0
Data Entry Error	0	0	0	0	0	0
Emergency Vehicle Issue Exposed	2 0	2	1 0	3	0	2
Equipment Malfunction	0	0	0	0	0	0
Framing- PD	0	0	0	0	0	0
Framing of Car	0	0	0	1	1	1
Framing of Driver Operator Error	0 0	0	0	0	0	0
Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	1	0	1	0	2	0
Total: Summary Metrics	4	4	4	5	4	3
Daily Average Vehicle Passes	0	0	0	0	0	0
Average Issued Speed	18	17	17	18	19	18
Average Issued Red Seconds Citiation / Violation Issuance Rate	2.7 61%	11.5 54%	7.6 55%	5.4 60%	16.0 62%	28.3 51%
Controllable Issuance Rate	81% 89%	54 <i>%</i> 87%	89%	90%	91%	87%
-						

# Los Angeles County MTA Expo Line Approach Summary Report Location 5119: WB to SB Exposition @ Denker

	11 0 21						[	□ Citations □ Controllable I □ Uncontrollabl	
n-18	Jul-18	0 Aug-18	0 Sep-18	0 Oct-18	0 Nov-18	0 Dec-18	Year to Date	Ionthly Average	
)7	376	Aug-10		001-10	1100-10	Dec-10	Quantity 386	88%	
9	32						54	12%	
46	408						440	100%	
6	21						20	38%	
3	0						4	7%	
0 9	11 <b>32</b>						30 54	55% 45%	
	<b>-</b>								
1	2						2	1%	
כ	1						1	0%	
)	0						0	0%	
)	0						0	0%	
35 3	229 8						230 11	59% 3%	
) )	0						0	0%	
63	136						142	37%	
כ ר	0						0	0% 0%	
) 07	376						387	100%	
	-					-		201	
) )	0						0	0% 0%	
- )	0						2	7%	
)	0						0	0%	
)	0						1	5% 4%	
- )	0						0	0%	
6	6						6	22%	
)	0						0	0% 4%	
)	0						0	0%	
)	0						0	0% 0%	
)	0						0	0%	
0	12						11	37%	
) 1	0						0 2	0% 7%	
5 D	2						2	7%	
)	0						1	4%	
) 1	0						0	0% 0%	
у Э	0						0	0%	
)	0						1	4%	
6	21						28	100%	
)	0						0	0%	
)	0						0	0%	
) )	0						0	0% 24%	
C	0						0	0%	
) ר	0 0						0	0% 0%	
2	0						2	35%	
)	0						0	0%	
) 1	0						0	0% 0%	
1	0						1	17%	
)	0						0	0%	
ן ר	0						0	0% 0%	
) )	0						0	0% 0%	
)	0						1	23%	
3	0						6 Year to Date N	100% Ionthly Average	
)	0							0	
8	18							18	
3.3 %	38.1 34%							5.7 4%	
7%	100%							1%	



100%															
80% —	35	24	31	33	31	40	20							- Citations	
60% —			6			<b>_</b>								Citations	
40%	_	63	_		77		54							□Controllable N	Non-Issued
20% —	69		57	68		74								Uncontrollable	e Non-Issued
0%								0	0		0	0			
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Date N Quantity	Ionthly Average	
Non-Violations	450	402	462	407	401	404	377	5	•				415	% 81%	
Violations	106	90	94	102	110	114	75						99	19%	
Total: Violations	556	492	556	509	511	518	452						513	100%	
Uncontrollable Non-Issued	69	63	57	68	77	74	54						66	67%	
Controllable Non-Issued	2	3	6	1	2	0	1						3	3%	
Citations Total:	35 <b>106</b>	24 <b>90</b>	31 <b>94</b>	33 <b>102</b>	31 <b>110</b>	40 <b>114</b>	20 <b>75</b>						31 99	31% 69%	
Non-Violations						1			2			5			
Emergency Vehicle Non- Issuable	2	1	1	0	5	3	2						2	1%	
Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%	
Intersection Control in Progress- PD	0	0	0	0	0	0	0						0	0%	
Gate Down/ No Train	0	0	0	0	0	0	0						0	0%	
No Violation Occurred Rear Axle Activation	285 19	249 14	305 13	260 21	249 13	265 12	250 7						266 14	64% 3%	
Right Turn- No Violation	0	0	0	0	0	0	0						0	3% 0%	
Test Shot	144	138	143	126	134	124	118						132	32%	
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0	0						0	0% 0%	
Venicie Stopped- PD Total:	<b>450</b>	<b>402</b>	<b>462</b>	<b>407</b>	<b>401</b>	<b>404</b>	<b>377</b>						0 415	0% 100%	
Uncontrollable Non-Iss	ued Violations					1									
Administrative Dismissal Address/CDL/DOB Match Fail	0	0	0	0	0	0	0						0	0% 0%	
Car Obstructed	1	0	0	0	1	1	0						1	1%	
Conditions Beyond Control	0	0	0	0	0	0	0						0	0%	
Driver Identity Unclear Driver Obstructed	4	4	0	0	1	03	0						3	4% 3%	
Exposed	0	0	0	0	0	0	0						0	0%	
Glare on Plate	39	34	24	41	48	41	32						37	49%	
Glare on Windshield Illegible Plate	0	1	0	2	0	0	0						2	2% 1%	
Interest of Justice- PD	0	1	0	0	0	0	0						1	1%	
Image Quality- PD	0	0	0	0	0	0	0						0	0%	
Issuance Criteria Not Met- PD No Warning Sign	0	0	0	0	0	0	0						0	0% 0%	
No Plate	16	19	24	19	23	24	20						21	27%	
No Speed Captured	0	0	0	0	0	0	0						0	0%	
Obstruction In Photo- PD Out of State	1	0	0	1	1	1	0						1	1% 2%	
Plate Obstructed	6	2	5	5	1	3	1						3	4%	
Short Yellow- PD	0	0	0	0	0	0	0						0	0%	
Third Party Damage TSB Epired	0	0	0	0	0	0	0						0	0% 0%	
TSB No Hit	0	0	3	0	0	0	0						3	4%	
Total:	69	63	57	68	77	74	54						76	100%	
Controllable Non-Issue Cnduent Expire	d Violations 0	0	0	0	0	0	0						0	0%	
Clarity of Plate	0	0	0	0	0	0	0						0	0%	
Clarity of Driver	0	0	0	0	0	0	0						0	0% 18%	
Dark Interior Data Box Related- PD	0	1	0	0	1 0	0	0						1 0	18% 0%	
Data Box Data Error- PD	0	0	0	0	0	0	0						0	0%	
Data Entry Error	1	2 0	5	0	0	0	0						3	47%	
Emergency Vehicle Issue Exposed	0	0	0	0	0	0	0						0	0% 0%	
Equipment Malfunction	0	0	0	0	0	0	0						0	0%	
Framing- PD Framing of Car	0	0	0	0	0	0	0						0	0% 18%	
Framing of Car Framing of Driver	0	0	0	0	1	0	0						0	0%	
Operator Error	0	0	0	0	0	0	0						0	0%	
Framing of Plate Reject Expired	0	0	0	0	0	0	0						0	0% 0%	
Reject Expired Speed Not Determined	0	0	0	0	0	0	0						0	0% 18%	
Total:	2	3	6	1	2	0	1						6	100%	
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0							Ionthly Average	
Average Issued Speed	0 19	20	0 19	0 20	0 20	0 19	0 20							20	
Average Issued Red Seconds	0.6	0.3	0.4	0.3	0.3	0.3	0.5						C	.4	
Citiation / Violation Issuance Rate Controllable Issuance Rate	33% 95%	27% 89%	33% 84%	32% 97%	28% 94%	35% 100%	27% 95%							1% 3%	
	5070	0370	0/ דיט	5170	JT /0	10070	JJ /0						J		

## Los Angeles County MTA Expo Line Approach Summary Report Location 5127: EB to NB Exposition @ Western



100% —					2								
80% —		6	4	5	2	6	4						
60%	4		2									□ Citations	
						-0						Controllable I	Non-Issued
40% —		11	12	8	10	7	14					Uncontrollabl	e Non-Issued
20% —	0												
0% —	Jan-18	Feb-18	Mar-18	Apr-18	Mav-18	Jun-18	Jul-18	0 0 Aug-18 Sep-18	0 Oct-18	0 0 Nov-18 Dec-18	Voor to Date	Monthly Average	
Non-Violations	674	690	677	661	692	610	529	Aud-10 Seb-10		NUV-TO Dec-To	648	98%	
Violations	5	18	18	14	14	13	18				14	2%	
Total: Violations	679	708	695	675	706	623	547				662	100%	
Uncontrollable Non-Issued	1	11	12	8	10	7	14				9	60%	
Controllable Non-Issued	0	1	2	1	2	0	0				2	10%	
Citations	4	6	4	5	2	6	4				4	30%	
Total: Non-Violations	5	18	18	14	14	13	18				15	70%	
Emergency Vehicle Non-	0	0	4	0	1	2	1				2	0%	
Issuable Emergency Vehicle PD	0	0	0	0	0	0	0				0	0%	
Intersection Control in Progress-	0	0	0	0	0	0	0				0	0%	
PD Gate Down/ No Train	0	0	0	0	0	0	0				0	0%	
No Violation Occurred	499	540	516	509	517	454	380				488	75%	
Rear Axle Activation	18	5	9	10	7	11	11				10	2%	
Right Turn- No Violation Test Shot	0 156	0 145	0	0 142	0 167	0 143	0 137				0 148	0% 23%	
Amber Time Low	0	0	0	0	0	0	0				0	0%	
Vehicle Stopped- PD	1	0	0	0	0	0	0				1	0%	
Total: Uncontrollable Non-Iss	674	690	677	661	692	610	529				649	100%	
Administrative Dismissal	0	0	0	0	0	0	0				0	0%	
Address/CDL/DOB Match Fail	0	0	0	0	0	0	0				0	0%	
Car Obstructed	0	0	0	0	0	0	0				0	0%	
Conditions Beyond Control Driver Identity Unclear	0	0	0	0	0	0	0				0	0% 6%	
Driver Obstructed	0	1	0	0	0	0	0				1	6%	
Exposed	0	0	0	0	0	0	0				0	0%	
Glare on Plate Glare on Windshield	0	1	7	5	6 0	5	1				4	26% 0%	
Illegible Plate	0	0	0	0	0	0	2				2	12%	
Interest of Justice- PD	0	0	0	0	0	0	0				0	0%	
Image Quality- PD Issuance Criteria Not Met- PD	0	0	0	0	0	0	0				0	0% 0%	
No Warning Sign	0	0	0	0	0	0	0				0	0%	
No Plate	1	8	2	2	4	2	10				4	25%	
No Speed Captured Obstruction In Photo- PD	0	0	0	0	0	0	0				0	0% 0%	
Out of State	0	0	1	0	0	0	1				1	6%	
Plate Obstructed	0	0	0	1	0	0	0				1	6%	
Short Yellow- PD	0	0	0	0	0	0	0				0	0%	
Third Party Damage TSB Epired	0	0	0	0	0	0	0				0	0% 0%	
TSB No Hit	0	0	2	0	0	0	0				2	12%	
Total:	1	11	12	8	10	7	14				16	100%	
Controllable Non-Issue Cnduent Expire	ed Violations	0	0	0	0	0	0				0	0%	
Clarity of Plate	0	0	0	0	0	0	0				0	0%	
Clarity of Driver	0	0	0	0	0	0	0				0	0%	
Dark Interior Data Box Related- PD	0	0	1 0	0	0	0	0				1 0	33% 0%	
Data Box Data Error- PD	0	0	0	0	0	0	0				0	0%	
Data Entry Error	0	1	1	1	1	0	0				1	33%	
Emergency Vehicle Issue Exposed	0	0	0	0	0	0	0				0	0% 0%	
Equipment Malfunction	0	0	0	0	0	0	0				0	0%	
Framing- PD	0	0	0	0	0	0	0				0	0%	
Framing of Car	0	0	0	0	1	0	0				1	33%	
Framing of Driver Operator Error	0	0	0	0	0	0	0				0	0% 0%	
Framing of Plate	0	0	0	0	0	0	0				0	0%	
Reject Expired	0	0	0	0	0	0	0				0	0%	
Speed Not Determined Total:	0	0	0 2	0	0 2	0	0				03	0% 100%	
Summary Metrics		•	-		<b>4</b>							Monthly Average	
Daily Average Vehicle Passes	0	0	0	0	0	0	0					0	
Average Issued Speed Average Issued Red Seconds	19 0.4	23 109.5	21 0.7	19 18.4	16 0.2	17 0.7	21 0.4					19 18.6	
A WORAGE ISSUED INED SECURIUS	0.4	109.0	0.7	10.4		U./	0.4						
Citiation / Violation Issuance Rate	80%	33%	22%	36%	14%	46%	22%					36%	

## Los Angeles County MTA Expo Line Approach Summary Report Location 5129: WB to SB Exposition @ Western



400%		2				0
100%	1				1	
80% —			_	3		_
60%		3				2
0078			6		4	
40%	3		_	_	_	
20%			_	3		
		1	1		1	1
0% —						
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Non-Violations	482	390	479	434	403	253
Violations Total:	4 <b>486</b>	4 <b>394</b>	7 486	6 <b>440</b>	6 <b>409</b>	3 <b>256</b>
Violations	400	394	400	440	405	230
Uncontrollable Non-Issued	0	1	0	3	1	1
Controllable Non-Issued	3	3	1	0	4	2
Citations	1	0	6	3	1	0
Total:	4	4	7	6	6	3
Non-Violations				1	1	1
Emergency Vehicle Non- Issuable	0	0	0	0	0	0
Emergency Vehicle PD	0	0	0	0	0	0
Intersection Control in Progress-	0	0	0	0	0	0
PD						
Gate Down/ No Train No Violation Occurred	0 460	0 377	0 460	0 411	0 379	0 236
Rear Axle Activation	480	0	460	0	0	0
Right Turn- No Violation	0	0	0	0	0	0
Test Shot	22	13	19	23	24	17
Amber Time Low	0	0	0	0	0	0
Vehicle Stopped- PD	0	0	0	0	0	0
Total:	482	390	479	434	403	253
Uncontrollable Non-Issu		-	1		3	1
Administrative Dismissal	0	0	0	0	0	0
Address/CDL/DOB Match Fail	0	0	0	0	0	0
Car Obstructed	0	0	0	0	0	0
Conditions Beyond Control Driver Identity Unclear	0	0	0	0	0	0
Driver Obstructed	0	0	0	0	0	0
Exposed	0	0	0	0	0	0
Glare on Plate	0	0	0	0	0	0
Glare on Windshield	0	0	0	0	0	0
Illegible Plate	0	0	0	0	0	0
Interest of Justice- PD	0	0	0	0	0	0
Image Quality- PD	0	0	0	0	0	0
Issuance Criteria Not Met- PD	0	0	0	0	0	0
No Warning Sign No Plate	0	0	0	0	0	0
No Speed Captured	0	0	0	0	0	0
Obstruction In Photo- PD	0	0	0	1	0	0
Out of State	0	1	0	1	0	0
Plate Obstructed	0	0	0	0	1	0
Short Yellow- PD	0	0	0	0	0	0
Third Party Damage	0	0	0	0	0	0
TSB Epired	0	0	0	0	0	0
TSB No Hit	0	0	0	0	0	0
Total: Controllable Non-Issued	0	1	0	3	1	1
Controllable Non-Issued	0	0	0	0	0	0
Clarity of Plate	0	0	0	0	0	0
Clarity of Driver	0	0	0	0	0	0
Dark Interior	0	0	0	0	0	0
Data Box Related- PD	0	0	0	0	0	0
Data Box Data Error- PD	0	0	0	0	2	0
Data Entry Error	3	3	0	0	2	0
Emergency Vehicle Issue	0	0	0	0	0	0
Exposed Equipment Malfunction	0	0	0	0	0	0
Framing- PD	0	0	0	0	0	0
Framing of Car	0	0	1	0	0	0
Framing of Driver	0	0	0	0	0	0
Operator Error	0	0	0	0	0	0
Framing of Plate	0	0	0	0	0	0
Reject Expired	0	0	0	0	0	0
Speed Not Determined	0	0	0	0	0	0
Total:	3	3	1	0	4	2
Summary Metrics Daily Average Vehicle Passes				0	0	0
	0	0	1		U	U
	0 20	0	0 24		15	0
Average Issued Speed       Average Issued Red Seconds	0 20 47.6	0 0 0.0	24 9.9	21 36.7	15 5.9	0 0.0
Average Issued Speed Average Issued Red Seconds	20 47.6	0	24 9.9	21 36.7	5.9	0.0
Average Issued Speed	20	0	24	21		

## Los Angeles County MTA Expo Line Approach Summary Report Location 5137: EB to SB Exposition @ Crenshaw

							C	<ul> <li>Citations</li> <li>Controllable Non-Issued</li> <li>Uncontrollable Non-Issued</li> </ul>				
10		0	0	0	0	0	Year to Date N	Ionthly Average				
18 3	Jul-18 177	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity 374	99%				
5	2						5	1%				
6	179						379	100%				
	0						2	22%				
	2						3	37%				
	0						3	41%				
	2						7	59%				
	0						0	0%				
	0						0	0%				
	0						0	0%				
	0						0	0%				
6	164						355	95%				
	0 0						0	0% 0%				
	13						19	0% 5%				
	0						0	0%				
~	0						0	0%				
3	177				nervoren		374	100%				
	0						0	0%				
	0						0	0%				
	0						0	0% 0%				
	0						0	0%				
	0						0	0%				
	0						0	0% 0%				
	0						0	0%				
	0						0	0%				
	0 0						0	0% 0%				
	0						0	0%				
	0						0	0%				
	0						1	25% 0%				
	0						1	25%				
	0						1	25%				
	0						1 0	25% 0%				
	0						0	0%				
	0						0	0%				
	0 0						0 4	0% 100%				
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	0						0	0% 0%				
	0						0	0%				
	0						0	0%				
	0						0 2	0% 28%				
	1						2	31%				
	0						0	0%				
	0 0						0 2	0% 28%				
	0						0	0%				
	1						1	14%				
	0 0						0	0% 0%				
	0						0	0%				
	0						0	0%				
	0 2						0 7	0% 100%				
	-				2			Ionthly Average				
	0							0				
)	0 0.0							20 5.0				
, D	0%							4%				
, D	0%							3%				



### Los Angeles County MTA Expo Line Monthly Citation Yield - By Location July 2018

Direction	Location	Code	Movement	Days of Enforcement	Events	Violations	Citations	Yield*
SB to EB	Flower @ Washintgon	5008	Left	31	586	14	7	0.23
SB to WB	Flower @ USC Trade Tech	5018	Left	31	1,761	6	2	0.06
SB to EB	Flower @ 23rd	5028	Left	31	1,089	3	0	0.00
SB to EB	Flower @ Adams	5038	Left	31	459	11	0	0.00
SB to EB	Flower @ 28th	5048	Left	31	292	141	19	0.61
SB to EB	Flower @ 30th	5058	Left	31	904	2	1	0.03
SB to EB	Flower @ Jefferson	5068	Left	31	977	26	15	0.48
EB to NB	Exposition @ Watt	5077	Left	31	228	11	1	0.03
WB to SB	Exposition @ Bill Robertson	5079	Left	31	404	30	8	0.26
EB to NB	Exposition @ Vermont	5087	Left	31	1,074	106	20	0.65
WB to SB	Exposition @ Vermont	5089	Left	31	719	57	19	0.61
EB to NB	Exposition @ Raymond	5097	Left	31	250	6	0	0.00
EB to NB	Exposition @ Normandie	5107	Left	31	489	83	43	1.39
WB to SB	Exposition @ Normandie	5109	Left	31	859	82	41	1.32
EB to NB	Exposition @ Halldale	5117	Left	31	466	9	2	0.06
WB to SB	Exposition @ Denker	5119	Left	31	408	32	11	0.35
EB to NB	Exposition @ Western	5127	Left	31	452	75	20	0.65
WB to SB	Exposition @ Western	5129	Left	31	547	18	4	0.13
EB to SB	Exposition @ Crenshaw	5137	Right	31	179	2	0	0.00
Totals				31	12,143	714	213	6.87

\*Yield is the number of citations issued per day of enforcement.