Garden Grove LRSP Top 30 Signalized Intersections - Primary Collision Type

No	No. Intersection Primar			Collision by	Total		2016			2017			2018			2019			2020		Rear Ends & Broadside - Potential Yellow reflective backplates? Red #, includes one DUI collision
No.	intersection	Туре	of Collisions	Movement	lotai	Day	Night	Total	Notes												
	Wast Charl			NB Left	19	1	3	4		1	1	3	0	3	7	2	9	1	1	2	Verify Operation and NBL Collisions, Potential Improvement - Add All-Red
1	West St at	Broadside	35	EB Left	8			0		4	4			0	1	2	3	1		1	timing, video/radar detection, additional EBT/WBT signal veh indication,
	Garden Grove Blvd			Other	8			0			0			0			0			0	potential E/W Prot only left turns
				NB Thru	7			0			0			0			0			0	
		D E I	4.6	SB Thru	2			0			0			0			0			0	
		Rear End	16	WB Thru	3			0			0			0			0			0	
			L	EB Thru	4			0			0			0			0			0	
				NB	10			0			0			0			0			0	
	Fairnian Chat	Caltrar	1s -	SB	3			0			0			0			0			0	
2	Fairview St at			WB	1			0			0			0			0			0	
	Garden Grove Blv	SKIF		EB	6			0			0			0			0			0	
				NB Left	2			0			0			0			0			0	
				EB Left	1			0			0			0			0			0	
		Broadside	15	WB Left	1			0			0			0			0			0	
				SB Left	1			0			0			0			0			0	
L			<u> </u>	Other	10			0			0			0			0			0	
				NB Thru	7		1	1			0	2		2	3		3		1	1	Potential Improvement - Add video/radar detection all directions
3	Brookhurst St at	Rear End	21	SB Thru	5			0			0			0			0			0	
3	Chapman Ave	Rear End	21	WB Thru	7		1	1	2	1	3		1	1	1		1		1	1	
				EB Thru	2			0			0			0			0			0	
		Rear End		NB Thru	5			0			0			0			0			0	Potential Improvement - Add video/radar detection all directions, Add
			18	SB Thru	4			0			0			0			0			0	2nd NBT veh indication
	Harbor Blvd at Trask Ave	Real Ellu	18	WB Thru	5			0			0			0			0			0	
4				EB Thru	4			0			0			0			0			0	
4				NB	6	1		1	1	1	2		1	1	1		1	1		1	NB Chg lanes/NBT, NBR/NBR, NBR/SBT, NBR/NBT, NBL/SBR, NBR/NBL, NBR/NBTCheck signage for Fwy EB on-ramp
		Cidoquino	1.4	SB	2			0			0			0			0			0	
		Sideswipe	14	WB	2			0			0			0			0			0	
				EB	4			0			0			0			0			0	
				NB Thru	8		1	1	3		3		1	1		1	1		2	2	Potential Improvement - Add video/radar detection all directions
5	Euclid St at Trask	Read End	21	SB Thru	2			0			0			0			0			0	
3	Ave	Read End		WB Thru	4			0			0			0			0			0	
				EB Thru	7	2		2	2		2			0	2		2	1		1	
				NB Thru	11	1	1	2	2	1	3	1		1		3	3	2		2	Check advance detection zonePotential Improvement - Add
6	Brookhurst St at	Rear End	30	SB Thru	14		1	1	3	2	5	2	4	6		2	2			0	video/radar detection all directions, add 3rd NBT/SBT veh indication
	Trask Ave	iveal Ella	30	WB Thru	2			0			0			0			0			0	(may need upgraded pole or move SNS to signal pole)
				EB Thru	3			0			0			0			0			0	
				NB Thru	2			0			0			0			0			0	One-Two rear end collisions (correctable) per year
7	Euclid St at	Rear End	18	SB Thru	6	1		1	1		1	2		2		1	1		1	1	
'	Chapman Ave	iveal Ella	10	WB Thru	5	1		1	1		1	2	1	3			0			0	
				EB Thru	5			0			0			0			0			0	
				NB Thru	9	1		1			0	2		2	2		2	1	3	4	Potential Improvement - Add video/radar detection all directions
		Rear End	15	SB Thru	1			0			0			0			0			0	
		Near Ella		WB Thru	2			0			0			0			0			0	
	Euclid St at Garden			EB Thru	3			0			0			0			0			0	
8	Grove Blvd			NB	5			0		1	1	2		2	1	1	2			0	Sideswipe - NBU/NBL, NB Chg lanes/NBT (2), NBT/WBT,NBL/NBT
	3.010 5.10			SB	2			0			0			0			0			0	
		Sideswipe	15	WB	1			0			0			0			0			0	
				EB	3			0			0			0			0			0	
				Other	4			0			0			0			0			0	
				NB Thru	6	1		1			0			0	2		2	2	1	3	NB already has add indication on SW corner
	Magnolia St at			SB Thru	3			0			0			0			0			0	
9	Garden Grove Blvd	Rear End	17	WB Thru	5			0			0			0			0			0	
	Juliucii Glove Diva			EB Thru	2			0			0			0			0			0	
				Other	1			0			0			0			0			0	

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No.	. Intersection Primary Collision			Collision by	Total		2016		2017			2018			2019				2020		Rear Ends & Broadside - Potential Yellow reflective backplates? Red #, includes one DUI collision
		Туре	of Collisions	Movement		Day	Night	Total	Day	Night	Total	Day	Night	Total	Day	Night	Total	Day	Night	Total	Notes
				NB Left	9	1		1	1	1	2			0	1	4	5	1		1	WBT/NBL, NBL/SBT (4), SBT/NBL,NBL/WBT (3)
10	Newhope St at	Droodsido	17	EB Left	3			0			0			0			0			0	Potential Improvement - Add N/S prot only left turn, video/radar
10	Trask Ave	Broadside	17	WB Left	2			0			0			0			0			0	detection all directions
				Other	3			0			0			0			0			0	School Crossing - Private school N/W corner
				NB Thru	4			0			0			0			0			0	
	Garden Grove Blvd			SB Thru	4			0			0			0			0			0	
11	at Brookhust St	Rear End	21	WB Thru	5			0			0			0			0			0	
	ut Brookingst St			EB Thru	6	1		1	1	1	2			0	2		2	1	1	2	One-Two rear end collisions (correctable) per year
				Other	2			0			0			0			0			0	
				NB Thru	4			0			0			0			0			0	
	Westminster Ave at			SB Thru	5			0			0			0			0			0	
12	Brookhurst St	Rear End	19	WB Thru	2			0			0			0			0			0	
				EB Thru	6	1	1	2			0	2		2			0			0	One-Two rear end collisions (correctable) per year
				Other	2			0			0			0			0			0	
				NB Thru	7	1	1	2			0	1	1	2	2		2	1		1	Potential Improvement - Add video/radar detection all directions
	Magnolia St at Trask			SB Thru	6	1		1	_		0	_	2	2			0	1	2	3	
13	Ave	Rear End	22	WB Thru	6	1	2	3	1		1	2		2			0			0	
				EB Thru	1			0			0			0			0			0	
				Other	2			0			0			0	<u> </u>		0			0	
				NB Left	1	Caltrans - SKIP															
14	Magnolia St at	Broadside	18	WB Left	3																
	Orangewood Ave			EB Left	2																
				Other	12					-			-			-			-	-	
		Sideswipe		NB	1	-															
4-	Garden Grove Blvd		10	SB	2	Caltrans - SKIP															
15	at Haster St		10	WB	1																
				EB	3																
				Other	3	-															
10	Beach Blvd at	Rear End	13	NB	3	-						`al+r	ans -	CVII	D						
16	Garden Grove Blvd			SB	7						•	Jaili	alis -	3KII	P						
				EB							0		1	0	1	İ			İ		
				NB Left	1			0			0			0			0			0	
17	Harbor Blvd at	Broadside	12	SB Left WB Left	2			0			0			0			0			0	
1/	Garden Grove Blvd	Dioduside	12	vvo teit	4			-			0						0				Other: NBT/Bike, NBT/EBT, SBT/EBT, EB/WB Head On, NBT/WBT,
	Garacii Grove Biva			FRIAft	1			(1)						[1	1					11	
	Garden Grove Biva			EB Left	1	0	2	0	1			1		0	1	1		1	1	0	
	Garden Grove Biva			Other	1 7	0	2	2	1		1	1		1	1	1	2	1	1	2	NBL/NBR (Other), WBT/WBR
				Other NB Left	3		2	2	1		0	1			1	_	2	1	1	0	NBL/NBR (Other), WBT/WBR
18	Chapman Ave at	Broadside	14	Other NB Left SB Left	3 6	3	2	2 0 3	1		1 0 1	1		1 0 1	1	1	2 0 1	1	1	2 0 0	
18		Broadside	14	Other NB Left SB Left WB Left	3 6 3		2	2 0 3 0	1		1 0 1 0	1		1 0 1 0	1	_	2 0 1 0	1	1	2 0 0 0	NBL/NBR (Other), WBT/WBR
18	Chapman Ave at	Broadside	14	Other NB Left SB Left WB Left EB Left	3 6 3 2			2 0 3 0 0	1	2	1 0 1 0	1		1 0 1 0	1	_	2 0 1 0	1	1	2 0 0	NBL/NBR (Other), WBT/WBR 2016 with three collisions, with one/yr afterward
	Chapman Ave at West St			Other NB Left SB Left WB Left EB Left SB Left	3 6 3 2 9		1	2 0 3 0 0	1 2	2	1 0 1 0 0 4	1 1 3	2	1 0 1 0 0 3	1	1	2 0 1 0 0	1	1	2 0 0 0 0 0	NBL/NBR (Other), WBT/WBR 2016 with three collisions, with one/yr afterward North Side, Bolsa Grande H.S., SBL/EBT (2 DUI of the 9)
18	Chapman Ave at West St Westminster Blvd at		14	Other NB Left SB Left WB Left EB Left SB Left WB Left	3 6 3 2			2 0 3 0 0 1	1	2	1 0 1 0 0 4 0	1	2	1 0 1 0 0 3 2	1	_	2 0 1 0 0 0 0 3	1	1	2 0 0 0 0 0 1	NBL/NBR (Other), WBT/WBR 2016 with three collisions, with one/yr afterward North Side, Bolsa Grande H.S., SBL/EBT (2 DUI of the 9) WBL/EBT (5), EBT fault for one collision, WBL Sight Distance?
	Chapman Ave at West St			Other NB Left SB Left WB Left EB Left SB Left WB Left EB Left	3 6 3 2 9			2 0 3 0 0 1 0	1	2	1 0 1 0 0 4 0	1	2	1 0 1 0 0 3	1	1	2 0 1 0 0 0 3 0	1	1	2 0 0 0 0 0	NBL/NBR (Other), WBT/WBR 2016 with three collisions, with one/yr afterward North Side, Bolsa Grande H.S., SBL/EBT (2 DUI of the 9) WBL/EBT (5), EBT fault for one collision, WBL Sight Distance? Potential Improvement - Add more all-red time for east/west throughs,
	Chapman Ave at West St Westminster Blvd at			Other NB Left SB Left WB Left EB Left WB Left SB Left WB Left CHARACTER CONTROL CONTRO	3 6 3 2 9 5 1			2 0 3 0 0 1 0 0	1	2	1 0 1 0 0 4 0 0	1	2	1 0 1 0 0 3 2 0	1	1	2 0 1 0 0 0 3 0	1	1	2 0 0 0 0 1 0 0	NBL/NBR (Other), WBT/WBR 2016 with three collisions, with one/yr afterward North Side, Bolsa Grande H.S., SBL/EBT (2 DUI of the 9) WBL/EBT (5), EBT fault for one collision, WBL Sight Distance? Potential Improvement - Add more all-red time for east/west throughs, add video/radar detection all directions
19	Chapman Ave at West St Westminster Blvd at Bushard St	Broadside	16	Other NB Left SB Left WB Left EB Left WB Left WB Left Other NB Left	3 6 3 2 9 5 1 1	3		2 0 3 0 0 1 0 0 0	2	2	1 0 1 0 0 4 0 0 0	1	2	1 0 1 0 0 3 2 0 0	1	2	2 0 1 0 0 0 3 0 0	1		2 0 0 0 0 0 1 0	NBL/NBR (Other), WBT/WBR 2016 with three collisions, with one/yr afterward North Side, Bolsa Grande H.S., SBL/EBT (2 DUI of the 9) WBL/EBT (5), EBT fault for one collision, WBL Sight Distance? Potential Improvement - Add more all-red time for east/west throughs,
	Chapman Ave at West St Westminster Blvd at			Other NB Left SB Left WB Left EB Left WB Left SB Left WB Left CHARACTER CONTROL CONTRO	3 6 3 2 9 5 1			2 0 3 0 0 1 0 0	1	2	1 0 1 0 0 4 0 0	1	2	1 0 1 0 0 3 2 0	1 1	1	2 0 1 0 0 0 3 0	1	1 1 1	2 0 0 0 0 1 0 0	NBL/NBR (Other), WBT/WBR 2016 with three collisions, with one/yr afterward North Side, Bolsa Grande H.S., SBL/EBT (2 DUI of the 9) WBL/EBT (5), EBT fault for one collision, WBL Sight Distance? Potential Improvement - Add more all-red time for east/west throughs, add video/radar detection all directions

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No.	Intersection	Primary Collision	Total Number	Collision by	Total		2016			2017			2018			2019			2020		Rear Ends & Broadside - Potential Yellow reflective backplates? Red #, includes one DUI collision
INO.	intersection	Туре	of Collisions	Movement	Total	Day	Night	Total	Day	Night	Total	Day	Night	Total	Day	Night	Total	Day	Night	Total	Notes
				NB Thru	2			0			0			0			0			0	PPLT All Directions
		5 5 1	_	SB Thru	3			0			0			0			0			0	
		Rear End	9	WB Thru	1			0			0			0			0			0	
21	Chapman Ave at 9th		-	EB Thru	3			0			0			0			0			0	
21	St			SB Left	1			0			0			0			0			0	
		Broadside	11	WB Left	1			0			0			0			0			0	Other: WBT/SBT (3), NBT/WBT, NBT/EBT, EBT/SBT, NBR/Bike (wrong side)
		Broauside	11	EB Left	2			0			0			0			0			0	
				Other	7			0	3	1	4	1	1	2	1		1			0	
				NB Thru	3			0			0			0			0			0	
22	Chapman Ave at	Rear End	15	SB Thru	3			0			0			0			0			0	
	Magnolia St	Real Lilu	15	WB Thru	5			0			0			0			0			0	
				EB Thru	4			0			0			0			0			0	
				NB Left	2			0			0			0			0			0	Existing - N/S Prot Only Left, E/W PPLT
	Lampson Ave at			SB Left	1			0			0			0			0			0	
23	Knott St	Broadside	14	WB Left	1			0			0			0			0			0	
	Kilott St			EB Left	3			0			0			0			0			0	SBT/EBT (2), NBT/WBT (2), NBT/EBT DUI, SBT/SBR, WBL/WBT?
				Other	7	1		1	1	1	2	1		1	2	1	3			0	
		Rear End		NB Thru	1			0			0			0			0			0	
			_	SB Thru	4			0			0			0			0			0	
	Chapman Ave at		13	WB Thru	5			0			0			0			0			0	
24			_	EB Thru	2			0			0			0			0			0	
	Gilbert St			Other	1			0			0			0			0			0	
			-	WB Left	1			0			0			0			0			0	Existing - E/W Prot Only Left, N/S PPLT
		Broadside	11	EB Left	1			0			0			0			0			0	
				Other	9		2	2	1		1	3		3	1	2	3			0	EBT/NBT (4), WBT/NBT (2),NBR/Bike, SBT/EBT,SBT/WBT
		Broadside	-	NB Left	4																
25	Haster St at		10	SB Left	1	Skip - City to upgrade to PPLT All Dir															
	Lampson Ave		_	WB Left	2	omb only to abbrage to it is the															
				Other	3			-		ı	_	ı	I I			I I	-		1		
				NB Thru	1			0			0			0			0			0	
26	Westminster Ave at	Rear End	15	SB Thru	6			0			0	2		2		1	1	1	2	3	
	Euclid St			WB Thru	2			0			0	_		0			0			0	
				EB Thru	6		2	2			0	2	1	3			0	1		1	
	Hank of Bl. 1		-	NB Thru	1			0			0			0			0			0	
27	Harbor Blvd at	Rear End	10	SB Thru	3			0			0			0			0			0	
	Chapman Ave		-	WB Thru	1			0			0			0			0			0	
				EB Thru	5			0			0			0			0			0	Dout of the Ten Ten Catal/Courses Lasstices
		Door Fred	7	SB Thru	1			0			0			0			0			0	Part of the Top Ten Fatal/Severe Locations
		Rear End	/	WB Thru	3			0			0			0			0			0	
	Cardon Craya Phys			EB Thru	3			0			0			0			0			0	
28	Garden Grove Blvd at Nelson St		-	NB Left	2			0			0			0			0			0	
	at iveisuri St	Broadside	9	SB Left WB Left	2			0			0			0			0			0	
		Dioduside	9	EB Left	2			0			0			0			0			0	
			-	Other	2			0			0			0			0		-	0	
				NB Thru	6					2				0				3	1	4	
			-	SB Thru	3			0		2	0			0			0	3	1	0	
29	Haster St at	Rear End	17	WB Thru	2			0			0			0			0			0	
29	Chapman Ave	Near Lilu	1/	EB Thru	4		1	0			0			0			0			0	
			-	Other	2			0			0			0			0			0	
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Garden Grove LRSP

Top 30 Signalized Intersections - Primary Collision Type

No.	Intersection	Primary Collision Type	Total Number of Collisions	Collision by Movement	Total	2016				2017			2018		2019			2020			Rear Ends & Broadside - Potential Yellow reflective backplates? Red #, includes one DUI collision
						Day	Night	Total	Day	Night	Total	Day	Night	Total	Day	Night	Total	Day	Night	Total	Notes
				NB Left	1			0			0			0			0			0	
				SB Left	1			0			0			0			0			0	
30	Taft St at Trask Ave	Broadside	12	WB Left	3			0			0			0			0			0	
				EB Left	1			0			0			0			0			0	
				Other	6	1	1	2	1		1	1		1	1		1	1		1	
	Brookhurst St at			SB Left	1			0			0			0			0			0	
31	Woodbury Ave	Broadside	7	EB Left	1			0			0			0			0			0	
	Woodbury Ave			Other	5	1		1	2	1	3	1		1			0			0	NBT/EBT, SBT/WBT (2), NB Enter/NB Chg Lanes, EBT/SBT
				NB Left	1			0			0			0			0			0	
		Broadside	6	SB Left	1			0			0			0			0			0	
32	Valley View St at			EB Left	4			0	1	1	2	1	1	2			0			0	Heavy EB left turn demand. Adequate sight distance
	Lampson Ave			NB Thru	4	1		1	1		1	1		1			0		1	1	
		Rear End	6	SB Thru	1			0			0			0			0			0	
				Other	1			0			0			0			0			0	
	Knott St from			NB Left	1			0			0			0			0			0	
	Stanford Ave to			SB Left	1			0			0			0			0			0	
33	Lampson Ave	Broadside	20	WB Left	3			0			0			0			0			0	
	[moved to midblock			EB Left	2			0			0			0			0			0	
	analysis]			Other	13	1	1	2	1	3	4	1		1	4	1	5	1		1	

Other includes: Through, Right turn