

## **APPENDIX K2**

### Collision Research Summary



## COLLISION RESEARCH SUMMARY

### The Brookside (TTM 72798) Project

Collision data were requested from the California Highway Patrol's (CHP) Statewide Integrated Traffic Records System (SWITRS) in November 2023 for the City of Walnut. Collision data were requested for the most recent five (5) year period. According to SWITRS, data from seven (7) months prior to the date of request should be considered incomplete due to a collision records processing backlog. Therefore, for the purpose of this collision review, the most recent five year period is assumed to include April 1, 2018 through March 31, 2023. Collisions which occurred from April 1, 2023 to the date of request are included for informational purposes.

The collision records were reviewed in order to identify collisions which occurred adjacent to the project site along Meadow Pass Road, Lemon Avenue, and La Puente Road. Collisions were also reviewed at the intersections of Lemon Avenue/Meadow Pass Road, Lemon Avenue/La Puente Road and San Vicente Road/La Puente Road. The collisions which were identified are presented in *Table 1*. It should be noted that collisions which occurred within 250 feet of an intersection are considered within the area of influence of the intersection and are reported under the subject intersection, while collisions which are more than 250 feet from an intersection are considered mid-block collisions are listed under the subject roadway segment.

A discussion of the findings of the collision summary is presented below.

- One mid-block collision occurred adjacent to the project frontage on Meadow Pass Road. The collision involves a westbound vehicle improperly entering traffic. The addition of project-generated traffic to and from the project access point on Meadow Pass Road is not anticipated to cause additional collisions of this nature.
- A total of five collisions occurred at the intersection of Lemon Avenue/Meadow Pass Road. All five collisions involved single vehicles colliding with fixed objects along the roadway. Four of the five collisions occurred during daylight, and one collision occurred in the dark. Two of the five collisions were attributed to improper turning, and two collisions were attributed to unsafe speeding. It should be noted that one collision resulted in a fatality. This collision was attributed to violation of California Vehicle Code (CVC) §21453(a), which requires motorists to come to a complete stop when facing a steady red indication at an intersection controlled by a traffic signal (i.e., the collision was the result of “running a red light”). The collision record also indicates that the deceased driver was under the influence of drugs at the time of the collision.
- A total of seven mid-block collisions occurred adjacent to the project frontage on Lemon Avenue. Five of the collisions involved single vehicles colliding with fixed objects along the roadway. Four of the five collisions occurred in the dark, and one collision occurred during daylight. Three of the five collisions were attributed to improper turning, while one was the result of unsafe speeding and one involved a driver under the influence of alcohol or drugs (i.e., a “DUI”). Of the seven total intersections, one collision was a sideswipe resulting from improper lane changing, and one was a collision involving a vehicle traveling southbound and

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a pedestrian traveling northbound. The collision record for the pedestrian collision is incomplete, however it is noted that there are no sidewalks on the west side of Lemon Avenue adjacent to the southbound travel lanes, which may be a contributing factor in this collision. It should be noted that no vehicular or pedestrian access to the proposed project site will be provided from Lemon Avenue. Therefore, the addition of project generated traffic along Lemon Avenue is not anticipated to result in new traffic conflicts along this roadway segment.

- A total of 15 collisions occurred at the intersection of Lemon Avenue/La Puente Road. These collisions reflect the typical collision types associated with traffic signal control, including rear end collisions resulting from following too closely or unsafe speeding (five of the 15 collisions), automobile right of way violations due to improper yielding (one of the 15 collisions), and unsafe lane changes (two of the 15 collisions). Two collisions involved single vehicles colliding with fixed objects due to unsafe speeding or improper turning. Each of these collisions occurred on Lemon Avenue north of the intersection, but within the influence area of the traffic signal. Four of the 15 collisions were attributed to violation CVC §21453(a) (i.e., “running a red light”). Each of these four collisions occurred mid-day on clear, dry days. Three of the four “red light running” collisions were caused by eastbound vehicles, and one was caused by a northbound vehicle. One of the 15 collisions involved a vehicle making a southbound right turn colliding with a bicycle heading eastbound. This collision was attributed to traveling on the wrong side of the road, with the bicyclist listed as being at fault. As directional bicycle lanes are provided along both sides of La Puente Road, it is assumed that this collision may have involved a bicyclist traveling eastbound on the north sidewalk who was struck by a southbound vehicle making a permissive right-turn.
- A total of three collisions occurred at the intersection of San Vicente Road/La Puente Road. One of the collisions involved westbound vehicles and was attributed to unsafe lane changes. Based on the locations and movements preceding the collisions, the remaining two collisions involved vehicles entering and exiting the Lemon Creek Village shopping center located on the south side of La Puente Road. Since access to the proposed project will be accommodated by the existing San Vicente Road cul-de-sac, the addition of project-generated traffic at this intersection is not anticipated to cause additional collisions of this nature.

Overall, the primary collision trend documented in the vicinity of the project site was that of single vehicles colliding with fixed objects along Lemon Avenue. These collisions occurred during daylight and in the dark, and involved vehicles traveling in both northbound and southbound directions. The secondary collision trend was that of vehicles “running a red light” at the Lemon Avenue/La Puente Road intersection, which involved vehicles traveling in the eastbound and northbound directions.

No vehicular or pedestrian access to the project site is proposed along Lemon Avenue. Development of the proposed project will not change the existing roadway conditions along this roadway segment, therefore it is anticipated that the project will have no effect on the existing

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collision trends or safety on Lemon Avenue. Similarly, the project will not change the existing intersection conditions and is therefore not expected to have any effect on the frequency of “red light running” at the Lemon Avenue/La Puente Road intersection.

Table 1  
COLLISION HISTORY [1]

NO.	DATE OF COLLISION	TIME OF DAY	DAY OF WEEK	DISTANCE FROM INTERSECTION	WEATHER CONDITIONS	ROADWAY SURFACE	LIGHTING	MOVEMENT PRECEDING COLLISION		PRIMARY COLLISION FACTOR	VEHICLE CODE VIOLATION SUBSECTION	TYPE OF COLLISION	VEHICLE INVOLVED WITH	COLLISION SEVERITY	NUMBER KILLED	NUMBER INJURED
								AT FAULT PARTY	OTHER PARTY							
<b>Meadow Pass Road between Lemon Avenue and Colt Lane</b>																
1	11/25/2018	11:35 AM	Sunday	252' West	Clear	Dry	Daylight	Westbound Entering Traffic	Westbound Proceeding Straight	Unsafe Starting or Backing	22106	Broadside	Other Motor Vehicle	Injury (Other Visible)	0	1
<b>Intersection of Lemon Avenue and Meadow Pass Road</b>																
2	05/10/2023	1:00 PM	Wednesday	48' South	Clear	Dry	Daylight	Southbound Other Unsafe Turning	-	Improper Turning	22107	Hit Object	Fixed Object	PDO	0	0
3	03/22/2023	3:39 PM	Wednesday	77' North	Cloudy	Dry	Daylight	Northbound Proceeding Straight	-	Unsafe Speed	22350	Hit Object	Fixed Object	PDO	0	0
4	03/16/2020	10:25 AM	Monday	28' South	Cloudy	Dry	Daylight	Northbound Ran Off Road	-	Improper Turning	22107	Hit Object	Fixed Object	PDO	0	0
5	02/23/2019	-	Saturday	73' West	Clear	Dry	Dark - Street Lights	Westbound Proceeding Straight	-	Unsafe Speed	22350	Hit Object	Fixed Object	PDO	0	0
6	09/19/2018	7:10 AM	Wednesday	93' East	Clear	Dry	Daylight	Westbound Proceeding Straight	-	Traffic Signals & Signs	21453A	Hit Object	Fixed Object	Fatal	1	0
<b>Lemon Avenue between Meadow Pass Road and La Puente Road [2]</b>																
7	02/20/2021	7:16 PM	Saturday	951' North	Clear	Dry	Daylight	Southbound Not Stated	Northbound Not Stated	Pedestrian Violation	21954A	Not Stated	Not Stated	Injury (Other Visible)	0	1
8	03/20/2021	11:45 PM	Saturday	444' North	Clear	Dry	Dark - Street Lights	Northbound Other Unsafe Turning	-	Improper Turning	22107	Hit Object	Fixed Object	PDO	0	0
9	05/02/2021	7:24 AM	Sunday	300' South	Clear	Dry	Daylight	Southbound Proceeding Straight	-	Under the Influence of Alcohol or Drug	23152A	Hit Object	Fixed Object	PDO	0	0
10	11/28/2021	2:15 AM	Sunday	295' South	Clear	Dry	Dark - Street Lights	Northbound Other Unsafe Turning	-	Improper Turning	22107	Hit Object	Fixed Object	PDO	0	0
11	11/28/2021	2:42 AM	Sunday	300' North	Clear	Dry	Dark - Street Lights	Northbound Making Right Turn	-	Unsafe Speed	22350	Hit Object	Fixed Object	Injury (Other Visible)	0	1
12	12/17/2021	11:00 PM	Friday	475' (assumed South)	Clear	Not Stated	Dark - Street Lights	Southbound Proceeding Straight	-	Improper Turning	22107	Rear End	Fixed Object	PDO	0	0
13	04/24/2018	6:23 PM	Tuesday	628' North	Clear	Dry	Daylight	Southbound Changing Lanes	Southbound Proceeding Straight	Unsafe Lane Change	21658A	Sideswipe	Other Motor Vehicle	PDO	0	0
<b>Intersection of Lemon Avenue and La Puente Road</b>																
14	06/28/2023	8:30 AM	Wednesday	20' East	Clear	Dry	Not Stated	Westbound Proceeding Straight	Westbound Slowing/Stopping	Following Too Closely	21703	Rear End	Other Motor Vehicle	PDO	0	0
15	07/05/2022	11:41 PM	Tuesday	200' North	Clear	Dry	Dark - Street Lights	Southbound Proceeding Straight	-	Unsafe Speed	22350	Hit Object	Fixed Object	PDO	0	0
16	05/04/2022	9:20 AM	Wednesday	In Intersection	Clear	Dry	Daylight	Northbound Proceeding Straight	Westbound Proceeding Straight	Traffic Signals & Signs	21453A	Broadside	Other Motor Vehicle	PDO	0	0
17	10/11/2022	9:13 PM	Tuesday	26' East	Clear	Dry	Dark - Street Lights	Westbound Proceeding Straight	Westbound Stopped	Unsafe Speed	22350	Rear End	Other Motor Vehicle	Injury (Other Visible)	0	1
18	06/18/2021	5:44 PM	Friday	180' North	Clear	Dry	Daylight	Northbound Proceeding Straight	Northbound Proceeding Straight	Unsafe Lane Change	21658A	Sideswipe	Other Motor Vehicle	PDO	0	0
19	09/01/2021	11:50 AM	Wednesday	10' North	Clear	Dry	Daylight	Southbound Slowing/Stopping	Southbound Stopped	Unsafe Speed	22350	Rear End	Other Motor Vehicle	Injury (Complaint of Pain)	0	1
20	11/11/2021	12:00 PM	Thursday	30' North	Clear	Dry	Daylight	Northbound Proceeding Straight	-	Improper Turning	22107	Hit Object	Fixed Object	PDO	0	0

**Table 1  
COLLISION HISTORY [1]**

NO.	DATE OF COLLISION	TIME OF DAY	DAY OF WEEK	DISTANCE FROM INTERSECTION	WEATHER CONDITIONS	ROADWAY SURFACE	LIGHTING	MOVEMENT PRECEDING COLLISION		PRIMARY COLLISION FACTOR	VEHICLE CODE VIOLATION SUBSECTION	TYPE OF COLLISION	VEHICLE INVOLVED WITH	COLLISION SEVERITY	NUMBER KILLED	NUMBER INJURED
								AT FAULT PARTY	OTHER PARTY							
21	01/13/2021	1:34 PM	Wednesday	24' East	Clear	Dry	Daylight	Westbound Proceeding Straight	Westbound Stopped	Unsafe Speed	22350	Rear End	Other Motor Vehicle	PDO	0	0
22	05/25/2021	1:15 PM	Tuesday	In Intersection	Clear	Dry	Daylight	Eastbound Not Stated	Northbound Not Stated	Traffic Signals & Signs	21453A	Not Stated	Not Stated	PDO	0	0
23	09/27/2021	6:00 PM	Monday	10' East	Clear	Dry	Daylight	Eastbound Proceeding Straight	Eastbound Proceeding Straight	Unsafe Lane Change	21658A	Sideswipe	Other Motor Vehicle	PDO	0	0
24	12/02/2020	2:00 PM	Wednesday	In Intersection	Clear	Dry	Daylight	Eastbound Proceeding Straight	Northbound Proceeding Straight	Traffic Signals & Signs	21453A	Broadside	Other Motor Vehicle	PDO	0	0
25	04/08/2020	3:25 PM	Wednesday	In Intersection	Clear	Dry	Daylight	Eastbound Proceeding Straight	Northbound Proceeding Straight	Traffic Signals & Signs	21453A	Broadside	Other Motor Vehicle	Injury (Complaint of Pain)	0	1
26	02/08/2019	7:30 PM	Friday	125' South	Clear	Dry	Daylight	Westbound Proceeding Straight	Northbound Proceeding Straight	Automobile Right of Way	21804A	Head-On	Other Motor Vehicle	PDO	0	0
27	02/16/2018	2:35 PM	Friday	7' South	Clear	Dry	Daylight	Eastbound Proceeding Straight	Southbound Making Right Turn	Wrong Side of Road	21202A	Not Stated	Bicycle	Injury (Other Visible)	0	2
28	12/19/2018	12:30 PM	Wednesday	33' North	Clear	Dry	Daylight	Southbound Proceeding Straight	Southbound Stopped	Unsafe Speed	22350	Rear End	Other Motor Vehicle	PDO	0	0
<b>Intersection of La Puente Road and San Vicente Road</b>																
29	04/29/2019	8:45 PM	Monday	90' East	Clear	Dry	Dark - Street Lights	Westbound Changing Lanes	Westbound Proceeding Straight	Unsafe Lane Change	21658A	Sideswipe	Other Motor Vehicle	PDO	0	0
30	05/20/2018	1:55 PM	Sunday	325' East [3]	Clear	Dry	Daylight	Northbound Making Left Turn	Eastbound Proceeding Straight	Automobile Right of Way	21804A	Broadside	Other Motor Vehicle	PDO	0	0
31	06/14/2018	9:45 AM	Thursday	100' West	Clear	Dry	Daylight	Eastbound Proceeding Straight	Eastbound Making Right Turn	Following Too Closely	21703	Rear End	Other Motor Vehicle	Injury (Complaint of Pain)	0	1

[1] Collision data were requested from the California Highway Patrol's (CHP) online Statewide Integrated Traffic Records System (SWITRS) database on November 20, 2023. Records were requested for the most recent five year period. According to the SWITRS website, data from seven months prior to the date of request should be considered incomplete due to a collision records processing backlog. Therefore, the most recent five year period is assumed to include April 1, 2018 through March 31, 2023. Collisions which occurred from April 1, 2023 to the present have been included for informational purposes.

[2] Distances from intersection which are listed as South indicate collisions which were coded as occurring south of Lemon Avenue/Meadow Pass Road. Distances listed as North indicate collisions which were coded as occurring north of Lemon Avenue/La Puente Road.

[3] This collision is coded as being located 325 feet east of the Lemon Avenue/La Puente Road intersection, which can more accurately be stated as being located 140 feet west of the San Vicente Road/La Puente Road intersection.