To:	City of Imperial Traffic Commission
From:	Othon Mora, Community Development Director
Date:	August 11, 2021
Subject:	Traffic concerns at the intersection of Brewer Road and Mirador street

Background:

Staff received feedback regarding a traffic safety concern at the above referenced intersection that parked vehicles along Brewer Road made it difficult for vehicles on Mirador street to see the approaching vehicles on Brewer Road. The ideal mitigation, is the placement of a No Parking signs and Red Curb along Brewer Road.

Mirador street is controlled by stop sign while Brewer Road in uncontrolled. Sidewalks are only provided at west and south approaches to the intersection, there are no marked crosswalks, and there are not parking restrictions at the approaches of the intersection. Mirador street and Brewer Road are both residential roadways with a speed of 25mph.

Analysis:

The Development Review Committee has assessed the area in regards to traffic concerns at the intersection of Brewer Road and Mirador street.

The following Development Review Committee members reviewed the item:

- Assistant City Manager, Alexis Brown
- Public Services Director, Jackie Loper
- Parks Superintendent, Tony Lopez
- Imperial County Fire Representative, Andrew Loper
- Community Development Director, Othon Mora
- Imperial Police Chief, Leonard Barra
- Planner, Lisa Tylenda

Based on the concerns expressed, the placement of No Parking signs and Red Curd may provide and fulfill the sought-after traffic safety mitigation. The Development Review Committee (DRC) has based the recommendation on the following guidelines from the "Manual on Uniform Traffic Control Devices (MUTCD)" as follows:

Section 2B.04, "Right of Way at Intersections", of the CA-MUTCD states that "In addition, the use of YIELD or STOP signs should be considered at the intersection of two minor streets or local roads where the intersection has more than three approaches and where one or more of the following conditions exist:

- The combined vehicular, bicycle, and pedestrian volume entering the intersection from all approaches average more than 2,000 units per day

- The ability to see conflicting traffic on an approach is not sufficient to allow a road user to stop or yield in compliance with the normal right-of-way rule if such stopping or yielding is necessary

- Crash records indicate that five or more crashes that involve the failure to yield the right-of-way at the intersection under the normal right-of-way rule have been reported within a 3-year period, or that three or more such crashes have been reported within a 2-year period

- Section 2B.07, "Multi-way Stop Application", of the CA-MUTCD stipulates that multi way stops to be considered as an option on "Locations where a road user, after stopping, cannot see conflicting traffic and is not able to negotiate the intersection unless conflicting cross traffic is also required to stop."

- YIELD or STOP signs should not be used for speed control.

Staff's findings are as follows:

- The CA-MUTCD defines minimum requirements for traffic volumes, pedestrian volumes, and bicycle volumes to warrant an all-way stop controlled intersection. Based on field observations, the intersection would not meet these minimum volume requirements. Currently, there is not a recent traffic study available for the area.

- Utilizing the Statewide Incident Traffic Reporting System and the City's database, a review of the collision history at the intersection was conducted for a five-year period. Reports show that there have been 2 collisions (hit and run) in the area.

- Based on field observations, there were visibility obstructions at the for drivers stopping on Mirador street due to parked vehicles on Brewer Road near the intersection.

Alternative Mitigation Measures and Cost:

4 Way Stop Sign $11,879.00

RRPF (Rectangular Rapid Flashing Beacons) Pedestrian Crosswalk Systems $17,732
Asphalt Speed Bumps $12,000.00
Asphalt Speed Humps $15,000.00
Rubber Speed Bumps $2,000.00
Rubber Speed Humps $2,250.00
Speed Radar Signs $29,500.00
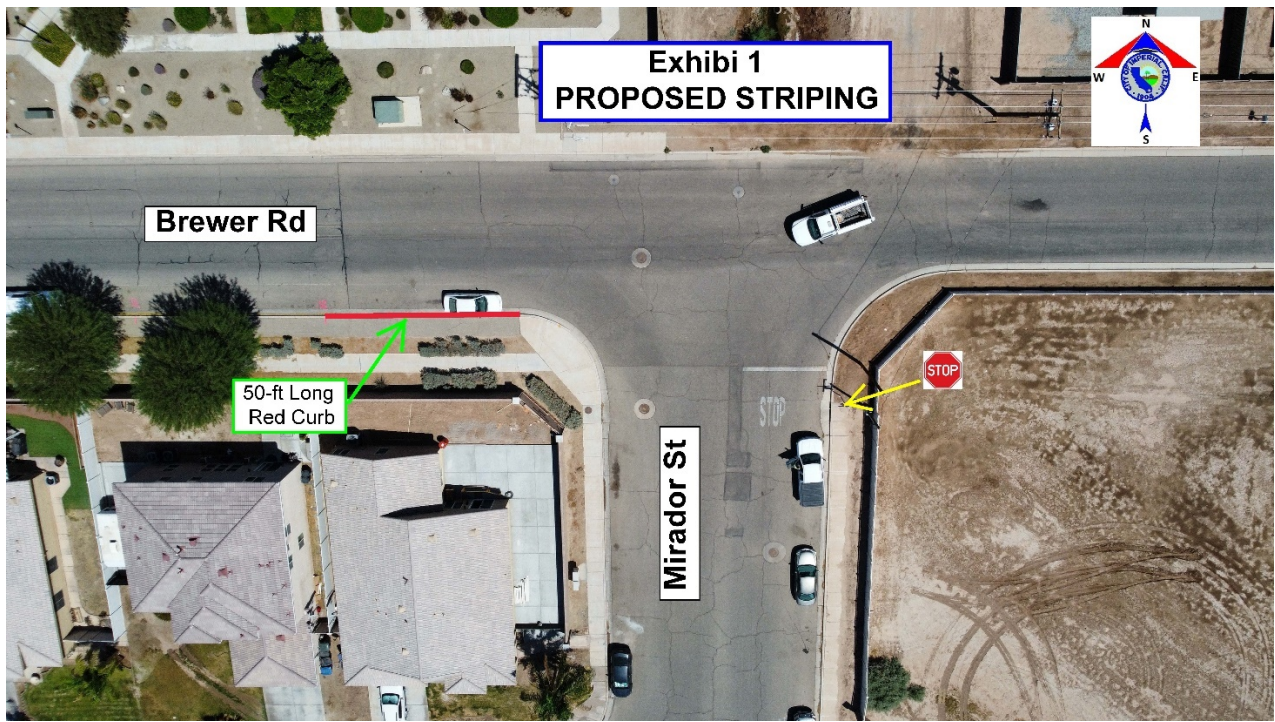No Parking Signs /50' Red Curb $1,867

Environmental Review:

The installation of Traffic Control Devices is categorially exempt under Class 1 allows for minor alterations of existing facilities, including existing highways and streets, sidewalks, gutters, bicycle and pedestrian access, and similar facilities as long as there is negligible or no expansion of use.

Staff Recommendation:

Based on these findings, due to the sigh distance limitations, staff recommends installation of No Parking Signs and 50' Red Curb on Brewer Road as shown on the Location Map below.
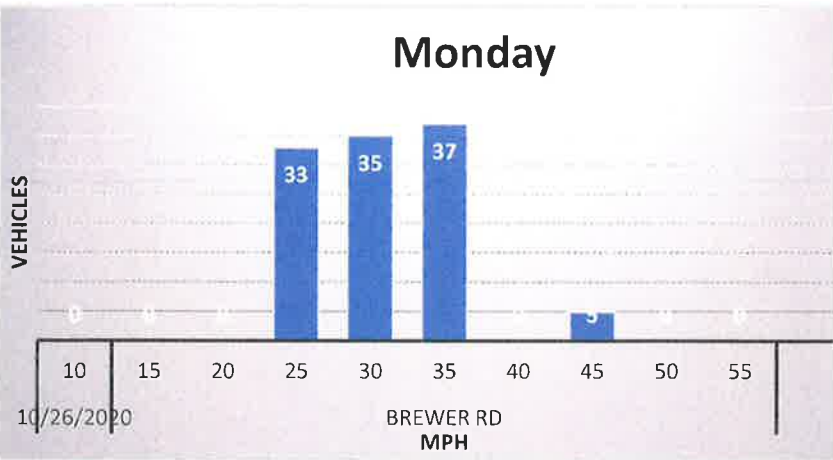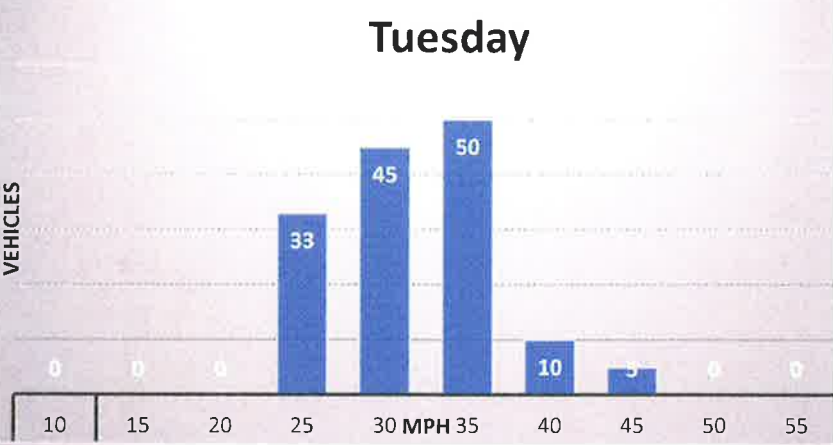
Location Map:

Record List - Total:15

CallID	When Reported	Typ	Nature	P	Location	Cty
15E016034	21:06 04/03/15	I	Suspicious	2	BREWER RD & MIRADOR ST	IMP
15E058188	09:40 11/23/15	I	TS	4	BREWER & MIRADOR	
16E060319	02:41 11/30/16	I	TS	4	BREWER & MIRADOR	IMP
17E056340	12:55 12/20/17	I	1124	3	MIRADOR ST & BREWER RD	IMP
17E057276	08:25 12/27/17	I	FD	3	MIRADOR & BREWER	IMP
18E033598	02:04 07/15/18	I	TS	4	BREWER & MIRADOR	IMP
18E035482	19:46 07/25/18	I	1182	3	BREWER RD & MIRADOR ST	IMP
19I000305	14:58 06/04/19	I	COV	3	MIRADOR & BREWER RD	IMP
19E035041	09:48 07/14/19	I	Parking Problem	4	MIRADOR & BREWER	IMP
19E035668	10:57 07/17/19	I	FIVEH	2	BREWER & MIRADOR	IMP
200108007	02:57 01/08/20	I	Parking Problem	4	BREWER RD & MIRADOR ST	IMP
200228003	00:23 02/28/20	I	TS	4	BREWER & MIRADOR ST	IMP
200322094	21:39 03/22/20	I	Suspicious	2	BREWER & MIRADOR;S SIDE OF THE STREET	IMP
200623078	17:48 06/23/20	I	Hit & Run - Mis	3	BREWER RD & MIRADOR	IMP
210106068	13:17 01/06/21	I	Suspicious	2	BREWER RD & MIRADOR	IMP

Monday	MPH	Vehicles
10/26/2020	10	0
BREWER RD	15	0
	20	0
	25	33
	30	35
	35	37
	40	0
	45	5
	50	0
	55	0
Tuesday	MPH	
10/27/2020	10	0
BREWER RD	15	0
	20	0
	25	33
	30	45
	35	50
	40	10
	45	5
	50	0
	55	0
Wednesday	MPH	
10/28/2020	10	4
BREWER RD	15	29
	20	52
	25	72
	30	66
	35	53
	40	33
	45	18
	50	4
	55	0

Monday — BREWER RD, 10/26/2020

Tuesday

Wednesday — BREWER RD, 10/28/2020