

# Right-Turn Pocket on Merced Street at 7<sup>th</sup> Street Intersection Project

## **San Joaquin Valley Project Level Conformity Group Presentation**

*May 15, 2024*

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**City of Fowler**



# Project Overview



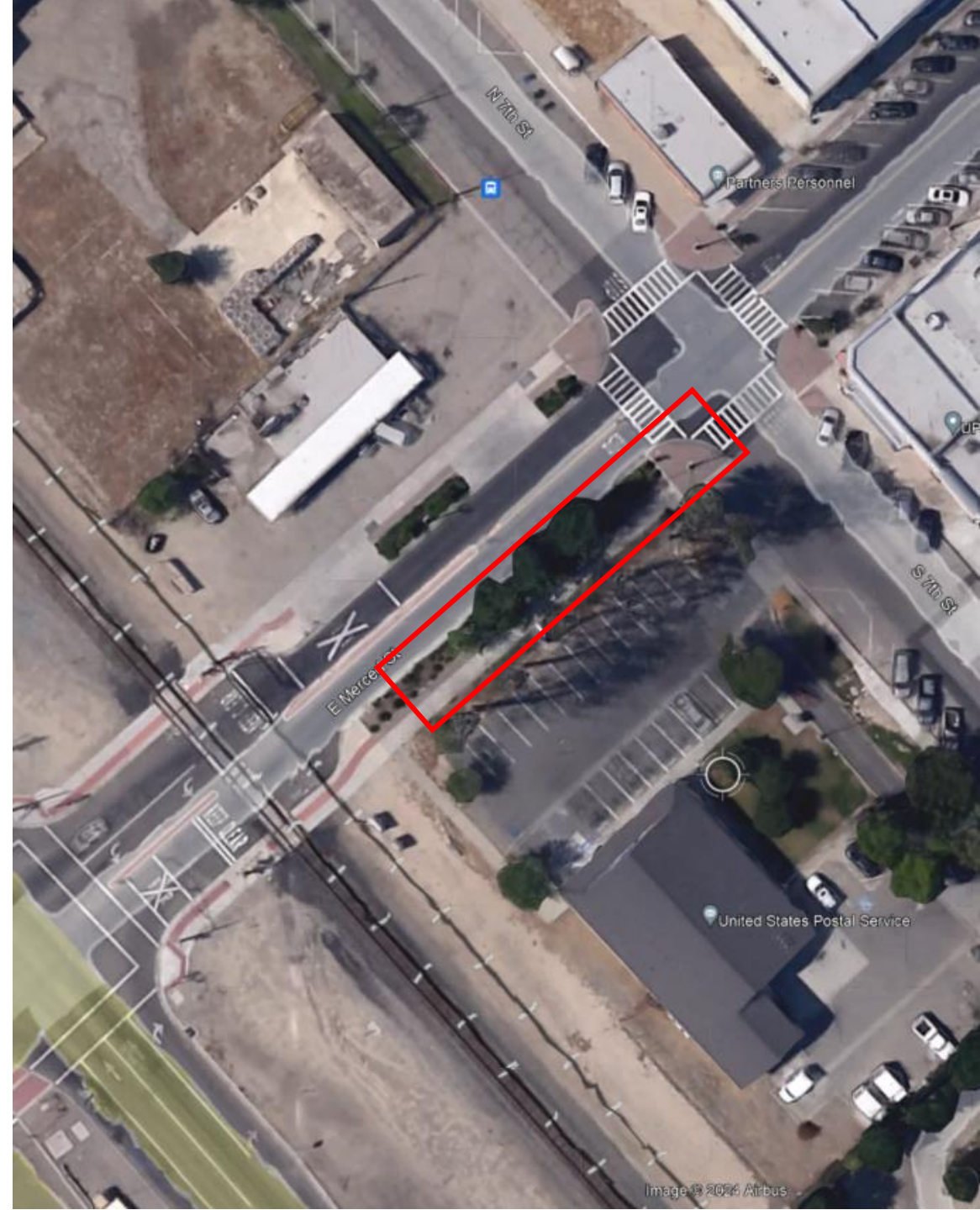
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- **Project Description**
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- **Purpose and Need**
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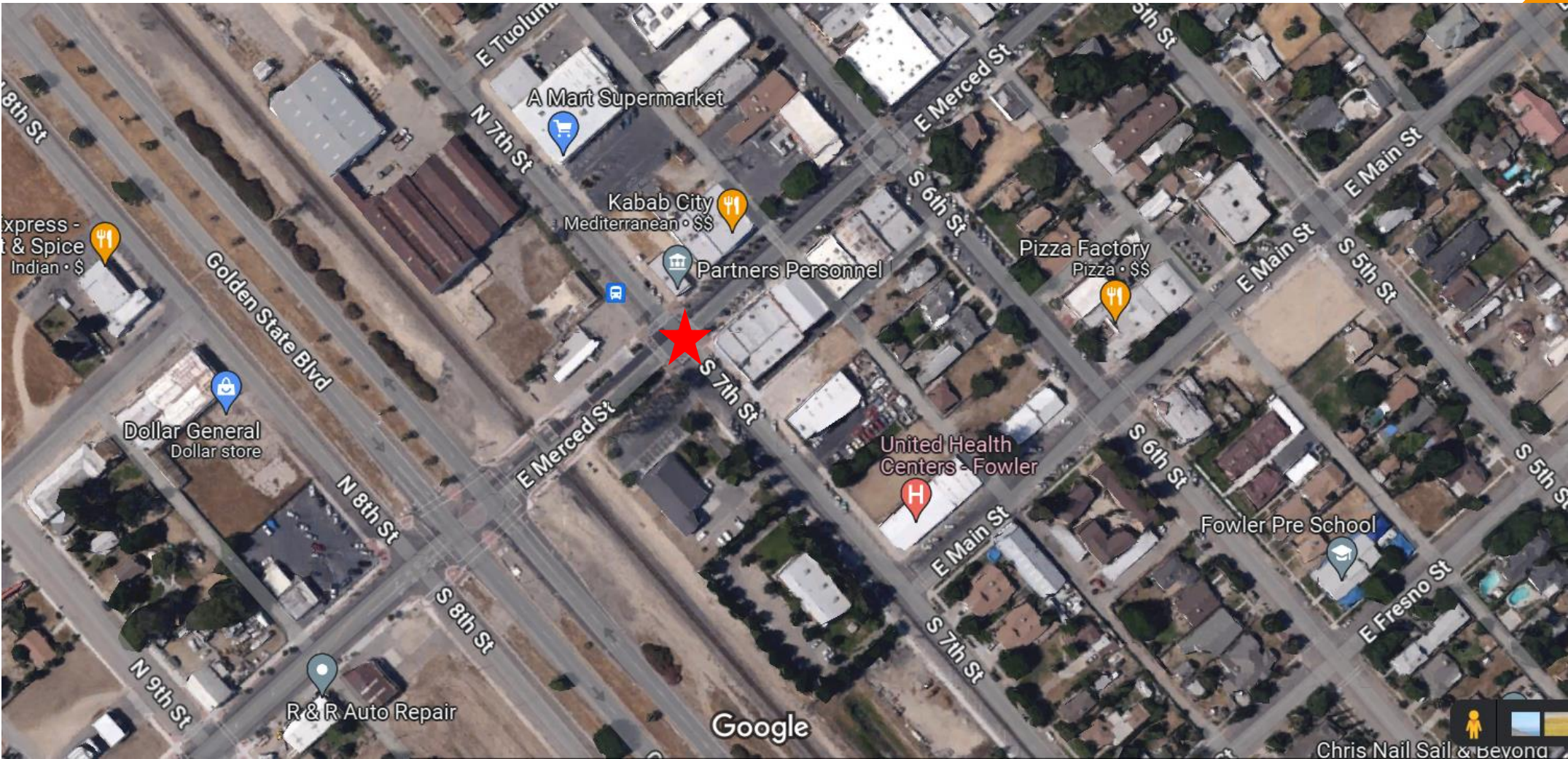
# Project Description

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- Congestion and Air Quality Mitigation (CMAQ) Funded
  - Preliminary Engineering: \$20,000 FY 21/22
  - Construction: \$130,000 FY 23/24
- Southwest corner of Merced St & 7<sup>th</sup> St, Fowler CA
- UPRR tracks 250' west of the intersection
- Currently an all-way stop controlled intersection and the proposed project will install a right turn pocket at this intersection
- All proposed improvements are within the existing right of way
- Relocate the existing sidewalk, ADA ramp, and street light
- Affected establishments in the area include City Hall Complex, United Health Centers, U.S.P.S. Office, and additional commercial and residential locations



# Project Location



# Project Purpose & Need

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## Project Purpose

- The purpose of the proposed project is to improve the efficiency of the intersection, while at the same time reducing congestion and improving air quality
- The addition of a right turn pocket would alleviate idling at the intersection and improve circulation at the intersection
- The project will provide an additional lane for eastbound traffic

## Project Need

- The current intersection experiences some congestion
- Specifically, there is queuing on the eastbound lane next to the railroad tracks

# TIP Project Listing

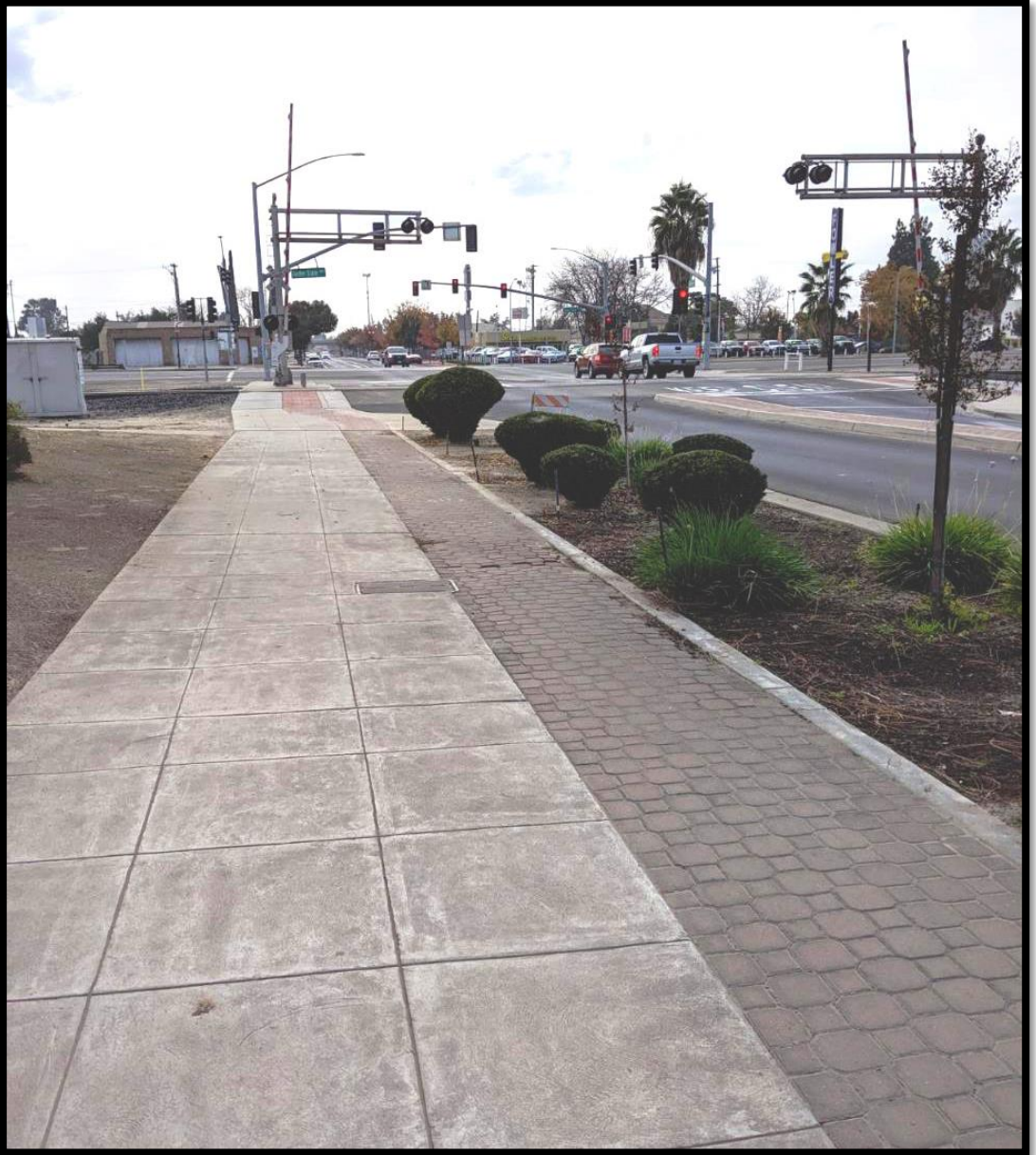
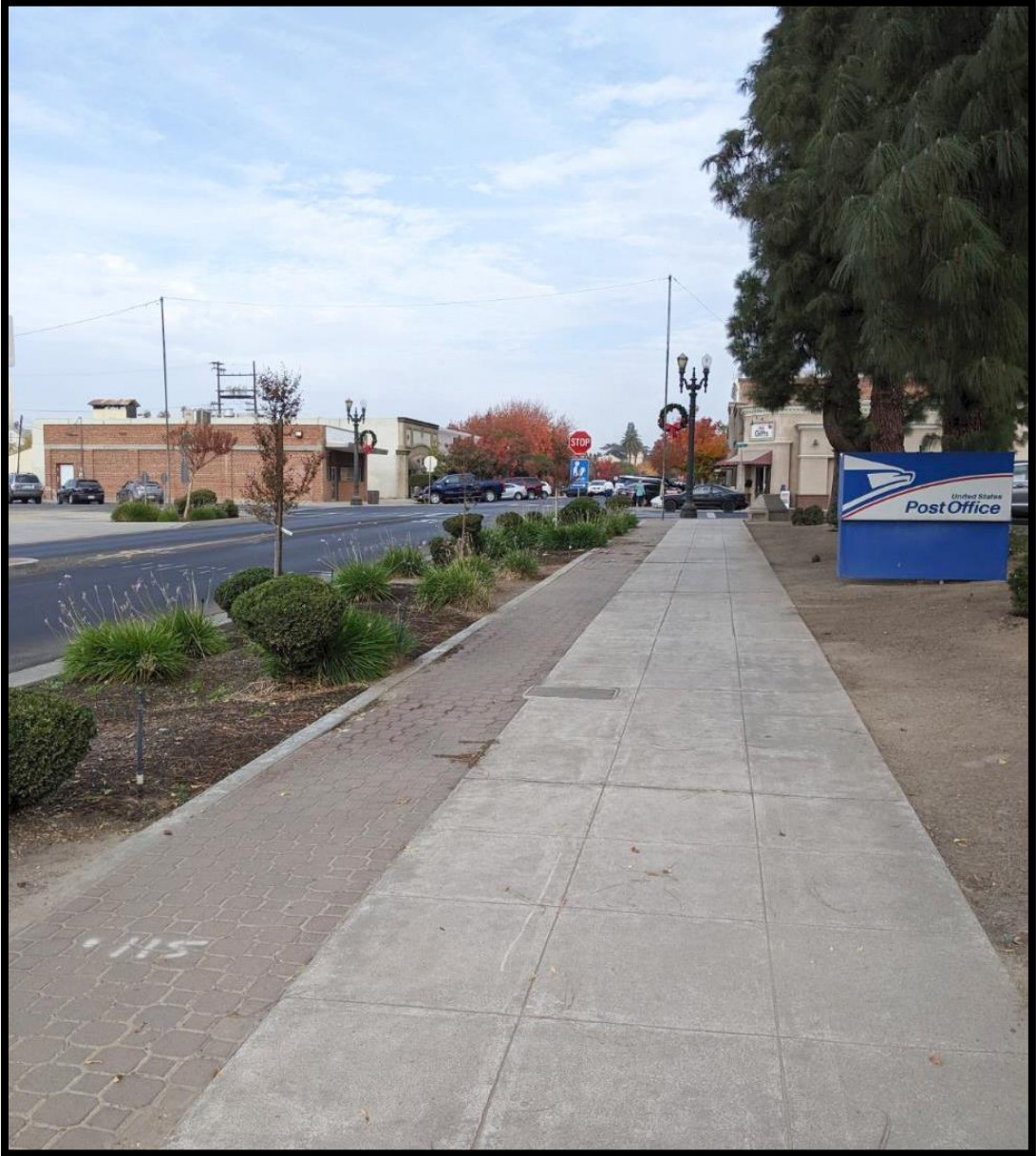
- The proposed project (FTIP ID: LSTMP833) is listed in the 2023 Fresno Transportation Improvement Program\*.
- The scope of the proposed project is consistent with the project description in the 2023 FTIP.

2023 FTIP- GROUPED PROJECT LISTING  
2023 FTIP Amendment No. 1 2-26-2023  
(DOLLARS IN \$1,000)

AGENCY	FTIP	GROUPED LIST PROJECT #	PROJECT ID #	PROJECT TITLE	PROJECT DESCRIPTION	FUND	PRIOR	FY22/23	FY23/24	FY24/25	FY25/26	FUTURE	FUND TOTAL	TOTAL COST
Clovis, City of	'23-00	FRE020106	LSTMP797	Shaw Ave Adaptive ITS Project - Cole to DeWolf	Shaw Ave from Cole Ave to DeWolf Ave; install adaptive ITS system and related signal improvements	CMAQ	\$0	\$54	\$479	\$0	\$0	\$0	\$533	\$602
						Local	\$0	\$7	\$62	\$0	\$0	\$0	\$69	
Clovis, City of	'23-00	FRE020106	LSTMP798	Herndon Ave Adaptive ITS Project - Clovis to Locan	Herndon Ave from Clovis Ave to Locan Ave; install adaptive ITS system and related signal improvements	CMAQ	\$0	\$0	\$0	\$53	\$468	\$0	\$521	
						Local	\$0	\$0	\$0	\$7	\$61	\$0	\$68	\$589
<b>TOTAL FRE020106 - CLOVIS ITS</b>														
							<b>\$0</b>	<b>\$61</b>	<b>\$541</b>	<b>\$60</b>	<b>\$529</b>	<b>\$0</b>	<b>\$1,191</b>	<b>\$1,191</b>
Fresno, City of	'23-00	FRE020134	LSTMP720	Blackstone Ave - McKinley to Shields: Smart Mobility Project	Blackstone: McKinley to Shields; Class IV protected bike lane, traffic calming, curb ramp and median nose recon, bus stop platforms, signing and striping.	CMAQ	\$136	\$0	\$0	\$90	\$0	\$1,665	\$1,891	
						Local	\$20	\$0	\$0	\$12	\$0	\$245	\$277	\$2,168
Fresno, City of	'23-00	FRE020134	LSTMP799	California Ave Complete Streets - Fruit to Mayor	California Ave between Fruit Ave and Mayor Ave/Tupman St; Install approx. 1.17 miles of Class IV bicycle facilities, Install approx. 1,190 LF of sidewalks (southside of California from Fruit to Thorne, and northside of California from Kern to Pottle), Install HAWK at existing crosswalk between Tulare and Kern, 13 street lights along corridor, MLK/Pottle intersection reconfiguration	CMAQ	\$0	\$390	\$0	\$135	\$0	\$4,393	\$4,918	
						Local	\$0	\$51	\$0	\$18	\$0	\$569	\$638	\$5,556
Fresno, City of	'23-00	FRE020134	LSTMP829	Chestnut Neighborhood Sidewalks	Chestnut Ave neighborhood, area bound by Chestnut Ave, Tulare St, Willow Ave, and Belmont Ave; sidewalk gap infill and curb ramp replacement (Toll Credits PE/ROW)	CMAQ	\$0	\$0	\$319	\$29	\$1,388	\$0	\$1,736	
						Local	\$0	\$0	\$0	\$0	\$1,669	\$0	\$1,669	\$3,405
<b>TOTAL FRE020134 - FRESNO BIKE PED</b>														
							<b>\$136</b>	<b>\$390</b>	<b>\$319</b>	<b>\$264</b>	<b>\$8,897</b>	<b>\$8,872</b>	<b>\$11,123</b>	<b>\$11,123</b>
Fowler, City of	'23-00	FRE020150	LSTMP833	7th and Merced Right Turn Pocket	7th St and Merced St intersection; Construct a right turn pocket on eastbound Merced St, and relocate existing sidewalk, ADA ramp, streetlight.	CMAQ	\$18	\$115	\$0	\$0	\$0	\$0	\$133	
						Local	\$2	\$15	\$0	\$0	\$0	\$0	\$17	\$150
<b>TOTAL FRE020150 - TRAFFIC FLOW IMPROVEMENTS</b>														
							<b>\$20</b>	<b>\$130</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>	<b>\$150</b>

\* <https://fresnocog.wpenginepowered.com/wp-content/uploads/2024/04/Website-Back-up-project-List-Formal-Amendment-No.-16.pdf>

# Project Features



# Project Features (Contd.)





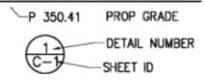
REGISTERED CIVIL ENGINEER

October 20, 2023  
DATE



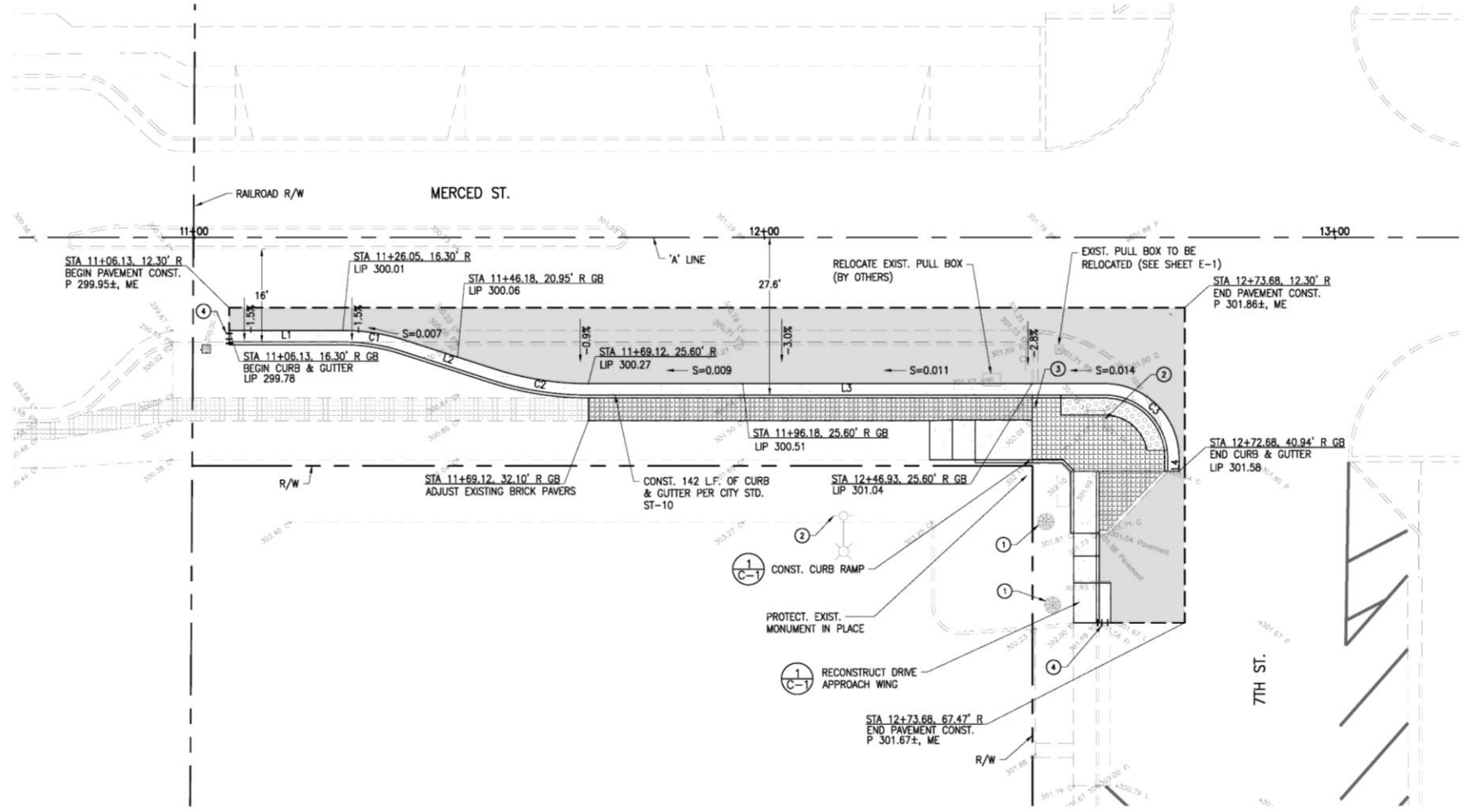
LEGEND & KEYNOTES (APPLIES TO THIS SHEET ONLY)

- HOT MIX ASPHALT. SEE TYPICAL SECTIONS
- PROPOSED CONCRETE IMPROVEMENTS
- ADJUST BRICK PAVERS
- 12" WIDE HMA PLUG (7" THICKNESS)
- AC SAWCUT LINE
- ① PROTECT EXIST. TREE IN PLACE. SEE NOTE - 1
- ② PROTECT EXIST. UTILITY POLE/ STREET LIGHT IN PLACE
- ③ PROTECT EXIST. SIGN & POST IN PLACE
- ④ INSTALL 12" #4 DOWEL DRILLED & EPOXY AND CENTERED IN EXISTING CONCRETE @ 12" O.C.



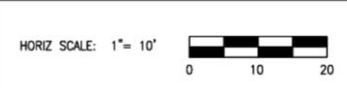
NOTE TO CONTRACTOR:  
1. CONTRACTOR SHALL PROTECT EXISTING TREE IN PLACE, AND SHALL USE A LICENSED ARBORIST TO DIRECT THE CUTTING OR REMOVAL OF ROOTS TO MINIMIZE DAMAGE TO THE EXISTING TREE.

LIP OF GUTTER			
Number	Length	Radius	Line/Chord Direction
L1	19.93		N48° 27' 21.83"E
C1	11.18	36.00	N57° 21' 06.00"E
L2	16.35		N66° 14' 50.17"E
C2	16.77	54.00	N57° 21' 06.00"E
L3	90.56		N48° 27' 21.83"E
C3	20.42	13.00	S86° 32' 38.17"E
L4	2.34		S41° 32' 38.17"E



L-1

DATE: 10/20/23 10:27 AM PROJECT: 22-027 L-1.dwg USER: dbrown DATE: Jan 12, 2024 10:33am



**PETERS ENGINEERING GROUP**  
863 POLLACKY AVENUE  
CLOVIS, CALIFORNIA 93612  
PHONE (559) 299-1544  
FAX (559) 299-1722



128 S. 5TH STREET  
FOWLER, CA 93625

DESIGN	BY SN
DRAWN	BY SN
CHECKED	BY WW

7TH & MERCED ST. RIGHT TURN POCKET  
LAYOUT SHEET

90% PLANS NOT FOR CONSTRUCTION

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

# Traffic Data & Summary

- The project is scheduled to begin construction in October 2024 and will take approximately three months to complete.
- Traffic analysis was not conducted as part of the project.
- For demonstration purposes, the traffic data from the COG's travel demand model for the existing and horizon years are shown.
- As the project does not change the traffic volumes, the traffic data does not change between the no-build and build-case scenarios.

	2024	2046
Annual Average Daily Traffic (AADT)	1,740	2,637
% and Number of Trucks	2%	2%
Truck AADT	35	53

# Project Schedule

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	Start Date	End Date
Preliminary Engineering	08/08/2022	05/30/2024
Construction Documents	06/01/2024	07/15/2024
Right-of-Way	N/A	N/A
Construction	10/01/2024	12/31/2024

# Project-level Conformity Conclusion

- ❑ Project does not meet the criteria for a POAQC as defined in the final rule by 40 CFR 93.123(b)(1). The project is listed as one of the non-exempt project examples that are not a local air quality concern under 40 CFR 93.123(b)(1)(i) and (ii) stated as
  - An intersection channelization project or interchange configuration project that involves either turn lanes or slots, or lanes or movements that are physically separated. These kinds of projects improve freeway operations by smoothing traffic flow and vehicle speeds by improving weave and merge operations, which would not be expected to create or worsen PM NAAQS violations.
- ❑ Additional reasons why the project is not a POAQC are:
  - The project will not construct a new or expanded highway;
  - Neither 7th nor Merced Streets are designated truck routes with a significant number of diesel vehicles;
  - The project will not install new bus or rail terminals;
  - The project will not expand any bus or rail terminals;
  - The project should not result in a significant increase in traffic volume;



# Questions?

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## Contact Information

Soo Ho Park  
City Engineer, City of Fowler  
(559) 834-3113  
[spark@ppeng.com](mailto:spark@ppeng.com)