



336 Pacific Avenue, Shafter, California, 93263

July 8, 2025

Kern Council of Governments
ATTN: CEASAR VALLE
1401 19th Street, Suite 300
Bakersfield, CA 93301

Dear Mr. Valle:

In response to a Congestion Mitigation and Air Quality Program (CMAQ) call for projects announced by your office, the City of Shafter is submitting one completed CMAQ project application. The project we are submitting is:

1. Lerdo Hwy Shoulder Paving – Beech Ave. to Cherry Ave.

The City looks forward to discussing these projects with your staff. Feel free to contact me at (661) 746-5023 with any questions or issues. Thanks.

Sincerely,

Alex Gonzalez
Deputy Public Works Director – Capital Projects
City of Shafter

City Manager
(661) 746-5000
Fax (661) 746-0607

Finance
(661) 746-5001
Fax (661) 746-1002

Human Resources
(661) 746-5003
Fax (661) 746-2645

Planning/Building/Engineering/GIS
(661) 746-5002
Fax (661) 746-9125

KERN COUNCIL OF GOVERNMENTS
Congestion Mitigation and Air Quality (CMAQ) Program
PROJECT APPLICATION – Due Thursday, July 17, 2025

*Please note this is a PDF fillable form so responses may be typed. Items 1, 2, 7, and 22 are drop downs. Totals in item 6 will automatically calculate.

- (1) Is the project included in a local agency-adopted resolution supporting the project? Yes
- (2) Does the proposed project meet basic eligibility requirements? Yes
- (3) Project background and justification: Explain the project in terms of the existing infrastructure, its impact for service, safety or any other issue that is relevant to the project (attach to application). If the project scope relates to fueling infrastructure please provide a 3-year fleet conversion plan.
- (4) Lead Agency: City of Shafter
- (5) Project description [(Location:) + (Limits) + (;) + (Improvement/Activity)]
Construct Shoulders - Lerdo Hwy. - Beech Avenue to Cherry Avenue

(6)	Funding Type	PE	R/W	Const.	Total
Local	Gas Tax/TDA	\$	\$	\$ 85,000	\$ 85,000
Local		\$	\$	\$	\$ 0
State		\$	\$	\$	\$ 0
Federal	FTIP/CMAQ	\$	\$	\$ 650,000	\$ 650,000
	Total	\$ 0	\$ 0	\$ 735,000	\$ 735,000

- (7) Programming Year by Phase: PE: N/A R/W: N/A Const: FY 27-28
- (8) VMT Reduction (annual miles): _____
- (9) VOC Reduction (kg/day): _____ Additional documentation required. See instructions.
- (10) NOx Reduction (kg/day): _____ Additional documentation required. See instructions.
- (11) PM₁₀ Reduction (kg/day): 11.65 Additional documentation required. See instructions.
- (12) PM_{2.5} Reduction (Kg/day): _____ Additional documentation required. See instructions.
- (13) CO Reduction (kg/day): _____ Additional documentation required. See instructions.
- (14) Cost-Effectiveness (\$/lb): 4.87 Additional documentation required. See instructions.
- (15) Livability and Safety: Describe how project provides the six benefits; limit to half page per benefit.
- (16) Hwy Peak Period LOS Before Project (AM/PM average): _____
- (17) Hwy Peak period LOS After Project (AM/PM average): _____
- (18) Bikeway Peak Period LOS Before Project (AM/PM average): _____
- (19) Bikeway Peak period LOS After Project (AM/PM average): _____
- (20) Pedestrian Peak period LOS Before Project (AM/PM average): _____
- (21) Pedestrian Peak period LOS After Project (AM/PM average): _____
- (22) Is the project identified as a RACM/BACM? No

Application completed by: Alex Gonzalez

Date Completed: 7/8/2026

E-mail: agonzalez@shafter.com

Phone Number: (661) 746-5023

Agency: City of Shafter

Address: 336 Pacific Ave., Shafter CA 93263

Send completed application electronically on a flash drive with transmittal letter on agency letterhead to:

Attn: Ceasar Valle ❖ Kern Council of Governments, 1401 19th Street, Suite 300, Bakersfield, CA 93301

OR send Digitally via [Dropbox, click here.](#)

KERN COUNCIL OF GOVERNMENTS
Congestion Mitigation and Air Quality (CMAQ)
2025 CMAQ Application
Lerdo Hwy Shoulders – Beech Avenue to Cherry Avenue

Project Justification

Lerdo Highway is a two-lane Principal Arterial that serves as a major east-west corridor in the City of Shafter. The roadway carries approximately 18,000 vehicles per day, including significant commuter, commercial, and agricultural traffic. Maintaining the condition and safety of this critical transportation route is essential for regional mobility and goods movement.

The segment between Beech Avenue and Cherry Avenue currently lacks paved shoulders in some segments, resulting in the edge of the pavement breaking away due to the absence of structural support. This condition creates safety concerns for motorists, particularly given the high volume of truck traffic. In addition, the unpaved shoulders contribute to the generation of PM-10 emissions caused by dust and debris along the roadway.

To address these issues, the City proposes constructing paved shoulders along this segment of Lerdo Highway in the unimproved sections. This improvement will enhance roadway safety, reduce edge deterioration, and mitigate dust emissions associated with heavy vehicle use.

Local funds and City staff will be used to complete preliminary engineering and design, ensuring the project is shovel-ready for timely implementation once funding is secured.

Project Description

The proposed project involves paving 8-foot-wide shoulders along the undeveloped segments of Lerdo Highway between Beech Avenue and Cherry Avenue. Lerdo Highway is a principal arterial with high daily traffic volumes and serves as a critical east-west corridor in the region. The existing shoulders in this area are unpaved, resulting in dust generation and shoulder erosion.

Inputs to Calculate Cost-Effectiveness:

Total Project Cost	735,000	
CMAQ Dollars	650,000	
Effectiveness Period (Life):	20 yrs	
Days of Use/year (D):	365 days	
Length (L) of Curb and Gutter:	0.9 mile	Centerline miles
Annual Average Daily Traffic (ADT):	18000 vpd	

Emissions Factors (g/vehicle mile from the SJV Amended 2003 PM-10 Plan & SJV Air District)

	Before Emission Factor	After Emission Factor
PM10 Factor	907.18	1.58

1.58 for paved local roads
4.54 for rural local roads

Annual Emission Reductions (PM10 in pounds/year)

Daily PM10 Reductions (kg/day)	=	11.65
Annual Emission Reductions (lbs/yr)	=	9351.9

Capital Recovery Factor (CRF)

$$= \frac{(1+i)^n \times i}{(1+i)^n - 1} \quad \text{where } i = \text{Discount Rate (3\%)} \text{ and } n = \text{Project Life (20 years)}$$

So, the capital recovery factor = 0.07

Cost - Effectiveness of Funding Dollars

$$= (\text{CRF} \times \text{Funding}) / (\text{Annual PM10 Reductions})$$

$$= 4.8653$$

Thus,

$$\text{Calculated Cost - Effectiveness} = 4.87$$