CalRecycle

FY 2010/11

GRANT #

TCS8-10-0009

City of Clovis

Department of Resources Recycling and Recovery

Rubberized Pavement Grant Program*

Background

The City of Clovis (city), in partnership with Fresno County (county), applied for a Rubberized Pavement Grant in 2010 to rehabilitate various city streets and county roads that exhibited poor pavement quality for an extended period of time. The city planned to use a rubberized chip seal product, where part of the paving process would include the placement of the rubberized chip seal material. This remediation method is conducive to the type of distresses observed and anticipated traffic volumes common to the area.

Grant Project Goals

The primary goals of the project were to:

- Rehabilitate various local residential streets throughout the city and county.
- Use 150,710 square yards of chip seal material for the total project.
  - City of Clovis: 37 projects with a total of 90,330 square yards were used.
  - Fresno County: 13 projects with a total of 60,380 square yards were used.
- Divert waste tires from California landfills by utilizing the crumb rubber from tires for paving materials.
- Achieve improved economies of scale and benefit from a peer-to-peer relationship between city and county engineering staff by combining paving projects.

Outcome and Accomplishments

- The city fully expended their $150,710 grant.
- A total of 191,810 square yards were installed, where 150,710 square yards were reimbursable (based on a $1.00 per square yard of material used).
  - City of Clovis: 124,475 square yards of chip seal material used
  - Fresno County: 66,705 square yards of chip seal material used
- The project was started and completed on schedule.
- 5,850 California waste tires were diverted as a result of the project.
- Both the city and county were able to benefit from lower costs and coordinated paving projects.

*Formally called the Rubberized Asphalt Concrete (RAC) Program

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Challenges

With the current state of the economy, it is often challenging for smaller jurisdictions to bid sufficient quantities of material to realize a reasonable cost. Getting materials and contractors have proven difficult for smaller jurisdictions. Because of this, it has become beneficial for two (or more) jurisdictions to combine road pavement projects in order to achieve economies of scale and a lower overall cost to taxpayers and ultimately, secure enough work to make it a viable project for a contractor. The City of Clovis addressed these challenges by partnering with Fresno County to achieve improved economies of scale and benefit from a peer-to-peer relationship between engineering staffs from the two jurisdictions.

In this situation, the city served as the lead (completing the application and coordinating various administrative and engineering aspects of the project) while the county served as a participating entity. The city administered the project, performed all environmental reviews, prepared the design, advertised for bids and provided administration and oversight of the construction contract. The county provided inspection services in areas within the county; however, it was the city who had overall responsibility of the project and contractor. Through partnership, it allowed the city and county to experience lower unit cost by sharing the overall cost of an annual project intended to provide needed rehabilitation on the various county roads and city streets.

Lessons Learned and Recommendations

By collaboration and effective partnership, both the city and county were able to benefit from lower costs and coordinated paving projects.

Snapshot

Grant Program: Rubberized Pavement Grant
Grant Program Website: http://www.calrecycle.ca.gov/Tires/Grants/Pavement/default.htm
Grant Number: TCS8-10-0009
Grant Type: Rubberized Asphalt Concrete Chip Seal Grant
Year Awarded: 2010
Funding: Awarded $150,710, spent $150,710
Grant Manager Contact: Loreto.Tamondong@CalRecycle.ca.gov