

Local Initiative Project (LIP) Proposal Form FY 2014

County: Collin	Date Submitted: 6/5/14
County Contact Person: Jeff Durham	
Title: Special Projects Manager - Engineering Department	
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Brief Project Title: Improve air quality, traffic mobility, safety and traffic delay along major arterial roads		
Brief Project Description: Install wireless technologies and vehicle monitoring cameras to establish real-time vehicle monitoring and signal management communication with the Plano Traffic Management Center.		
TCEQ Grant Funding Requested	Local Matching Funding	Total Project Funding
\$116,442	\$117,076	\$233,518
Project Dates: June, 2014 – August, 2014	If contracting with another entity, list:	
Proposed Start Date: June 30, 2014	Name of Entity: City of Plano	
End Date: August 31, 2014 (Project must be closed by the	Contact Person: Lloyd E. Neal P.E. , PTOE	
	Phone Number: 972-941-7152	

end of the fiscal year in which it was approved.)

Email Address: lloyd@plano.gov

Project Budget

BUDGET ITEM	TCEQ FUNDING AMOUNT	LOCAL MATCHING AMOUNT	TOTAL FOR BUDGET ITEM
Personnel / Salaries <i>List of personnel; number of hours to be worked; hourly, monthly, or annual salary charged to grant:</i>	N/A	N/A	N/A
Fringe Benefits <i>Type of benefits included; percentage and amount of benefits paid per individual</i>	N/A	N/A	N/A
Travel <i>Type of travel; estimated travel, lodging, cost of meals, and parking expenses</i>	N/A	N/A	N/A
Supplies <i>Type, brand, and quantity of items purchased</i>	N/A	N/A	N/A
Equipment <i>Type, brand, and quantity of equipment purchased; explanation of need; explanation of lifespan; salvage value of equipment; how equipment will be disposed of:</i> Motorola Canopy FSK (SM) – 4 units Cambium PTP230 Canopy Links, US – 4 units, Black Box Switch (6 port) – 17 units, Cisco Industrial Eth switch w/8 Ethernet 10/100 – 17 units, Cisco Industrial Eth switch w/8 Ethernet 10/100 power supply -17 units Above equipment needed to establish wireless communication	\$58,100	\$58,418	\$116,518

<p>with the Plano Traffic Management Center</p> <p>Equipment lifespan: 8 years</p> <p>Equipment salvage value: \$0</p> <p>Equipment disposal method: Public auction and/or electronic parts salvage broker</p> <p>-----</p> <p>RX550N 802.11G PTZ Camera, Outdoor 7" Dome Clear, Aluminum Pole Mount Adapter, Gateway Device Installation – 13 units</p> <p>Above equipment needed to establish wireless PTZ video monitoring with the Plano Traffic Management Center</p> <p>Equipment lifespan: 8 years</p> <p>Equipment salvage value: \$0</p> <p>Equipment disposal method: Public auction and/or electronic parts salvage broker</p>	<p>\$58,342</p>	<p>\$58,658</p>	<p>\$117,000</p>
<p>Construction Type, timeframe, and location of construction; who will perform the work; blueprint of construction plans</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>Contractual <i>Type, timeframe, and location of contractual activities; who will perform contractual activity</i></p> <p>Type: Wireless Communication Equipment and Traffic Monitoring Camera installation by contractor.</p>			

<p>Timeframe: 3 weeks</p> <p>Location of contractual activities: Seventeen intersections along Plano arterial roads.</p> <ol style="list-style-type: none"> 1. Coit Road and 15th Street 2. Custer Road at Plano Parkway 3. Custer Road at Hedgcoxe Rd 4. Custer Road at Parker Road 5. Midway Road at Park Blvd 6. Independence Pkwy at Parkhaven Dr. 7. Preston and 121 HWY 8. Preston and Rasor Blvd 9. Preston and Hedgcoxe Rd 10. Preston and Legacy 11. Preston and Tennyson Pkwy 12. Preston and W. Spring Creek 13. Preston and Lorimar 14. Preston and Parker 15. Preston and Tulane 16. Preston and Park 17. Preston and Old Shepard <p>Who will perform contractual Activities: Scientel Communications LLC</p>			
<p>Other <i>All other items and reason/use</i></p>	N/A	N/A	N/A
<p>Indirect Costs (Costs not directly attributable to a cost object/budget item) <i>Fixed cost; variable cost; type of cost</i></p>	N/A	N/A	N/A
TOTAL FUNDING	\$116,442	\$117,076	\$233,518
PERCENT CONTRIBUTION	49%	51%	100%

Project Description

Provide a detailed description of the proposed project, including:

1. What is the project goal?

Improve regional mobility, pedestrian safety, air quality, foster economic development, and Active Transportation by establishing real-time traffic monitoring and management of traffic signals.

2. Why is this project necessary and a good use of funds?

Preston Road, Custer Road, Coit Road, Independence Parkway, and Park Boulevard are primary regional corridors that carry large amounts of vehicles per day. These primary arterial roads serve; the employees and service contractors of major business corporations, residential developments, and retail businesses and restaurants. The corridors also serve emergency response vehicles frequenting nearby hospitals and medical support facilities. The reduction of traffic congestion and vehicle delay via application of current technologies in conjunction with the Plano Traffic Management Center is a highly desirable and effective use of these funds.

3. Who will benefit (directly or indirectly) from the project?

- Adjacent businesses and their patrons
- Non-motorized road users
- Residential neighborhoods
- Major Corporations
- Hospitals
- Regional / local motor vehicle travelers
- Shopping Malls

4. What will the funds be used for?

The installation of traffic monitoring cameras and wireless traffic signal communication systems.

5. What are the measurements of success on a quarterly, annual, and long term (5 year) basis?

- Air quality improvement
- Reduced traffic delay and congestion
- Improved non-motorized safety and access
- Increased Active Transportation
- Effective incident response

6. Where will equipment be stored and how often will it be used?

- Equipment will not be stored. It will be used daily to provide real-time management of traffic flow on major regional arterials.

7. What is the target emitting source or sources?

- Motor vehicles

8. What technologies or methods will be implemented to reduce emissions?

- Real-time traffic management (signal timing optimization and incident management) via traffic monitoring cameras and Traffic Management Center (TMC) operations

9. Explain the anticipated air quality benefits to the county/region.

- Reduced vehicle emissions by minimizing motor vehicle idling and excessive stops

10. Describe how the air quality benefits or emission reductions are enforceable, permanent, and quantifiable, if available. Provide verifiable documentation or research data.

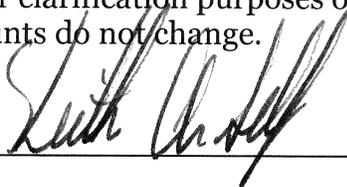
- Federal Highway Administration, Texas Department of Transportation, North Texas Council of Governments support programs and activities that use transportation industry based technologies and procedures to coordinate traffic signal systems and effectively respond to non-recurring road incidents. Standard performance measures including but not limited to traffic queue lengths, operating capacity ratios, vehicle congestion and delay, and air quality impacts are typical and uniform reporting measures.

County LIP Certification

Collin County makes the following certifications regarding the projects included with the accompanying Project Summaries:

1. The projects were selected in accordance with the procedures set forth in the grant agreement with Texas Commission on Environmental Quality (TCEQ);
2. The project proposals have been fully evaluated and determined to fit within the minimum criteria and standards established by the TCEQ for this program, as well as more specific standards established for the project categories by the County;
3. The project proposals are consistent with and directly support implementation of the Texas Health and Safety Code, 382.220;
4. The governing body of Collin County officially approved the selection and scope of work of this project on _____ and has authorized the person signing this proposal to make the preceding certifications and act on behalf of Collin County.
5. This is to certify that I have reviewed the proposed LIP project/budget and to the best of my knowledge, all costs and expenses are applicable as listed. The project will be conducted in accordance with the standards and reporting requirements listed in the LIP contract between the TCEQ and the County. Non-substantive changes may be made to this project for clarification purposes or refinement so long as the project goal(s) and funding amounts do not change.

Authorized Signature: _____



Type/Printed Name: Keith Self

Type/Printed Title: County Judge

Date: _____, 2014

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Instructions

This document provides the forms necessary for Participating Counties to submit local initiative projects for funding to the TCEQ. These forms must be used by the County to submit projects to the TCEQ for review and approval.

Eligible Projects

A project must be implemented in consultation with the TCEQ. Projects eligible for funding may include projects to:

- (1) expand and enhance the AirCheckTexas Repair and Replacement Assistance Program;
- (2) develop and implement programs or systems that remotely determine vehicle emissions and notify the vehicle's operator;
- (3) develop and implement projects to implement the TCEQ's Smoking Vehicle Program;
- (4) develop and implement projects in coordination with the director of Department of Public Safety for coordinating with local law enforcement officials to reduce the use of counterfeit registration insignia and vehicle inspection reports by providing local law enforcement officials with funds to identify vehicles with counterfeit registration insignia and vehicle inspection reports and to carry out appropriate actions;
- (5) develop and implement programs to enhance transportation system improvements; and
- (6) develop and implement new air control strategies designed to assist local areas in complying with state and federal air quality rules and regulations.

Project Proposal Summary Form

The Project Proposal Summary Form should be used by the County to provide the TCEQ detailed information on each proposal for which funding is being requested. This form outlines the format for the County to provide the necessary information concerning each project selected. Budget figures must be exact on all pages of the proposal.

The TCEQ will review the project proposal and notify the County of any project or project components that the TCEQ determines may not meet project eligibility criteria under the terms of the grant agreement, or for which there may be a question about the project. The County is required to respond to any request from the TCEQ for additional information concerning a project.

The County may not proceed with a project until notified that it may do so by the TCEQ. Any modification, after the TCEQ approval, to a project budget or to project activities must be approved in writing by the TCEQ. The County may rescind the proposal at any time during the review of the project.

Certification Form

The Certification Form serves as written certification by the County that the project was reviewed for eligibility and found to meet the minimum criteria. It must be submitted with the Project Proposal Summary Form.