

STAFF REPORT- Fresno COG Policy Board

May 26, 2011

Consent Item “D”

Golden State Corridor: Economic Development Infrastructure Improvements:-Planning, Engineering, and Environmental Study

RE: Action 1: Adoption of Resolution 2011-11 –which approves Amendment No. 1 to the Cooperative Agreement between the Transportation Authority and Fresno COG.
Action 2: Approval of contract amendment between Quad Knopf and Fresno COG

RECOMMENDATION: Staff recommends Action 1: approve adoption of Resolution 2011-11; and Action 2: approve the contract amendment with Quad Knopf.

DISCUSSION: The Golden State Corridor: Economic Development Infrastructure Improvements-Planning, Engineering, and Environmental Study has been included as a rural Tier 1 Regional Transportation Program project since the Measure C Extension Expenditure Plan was originally drafted in 2006. The project consists of various corridor improvements intended to improve both transportation within the corridor and enhance the economic viability of the region. The original Expenditure Plan identified Fresno County as the agency responsible for delivering the project and established project limits of American Ave. to the Tulare County Line.

Early in the planning phase of the work, Fresno County staff suggested that COG assume the project delivery role in order to facilitate coordination between the County and the cities within the project limits. COG agreed and formed a Project Development Team (PDT) to refine the project scope. The PDT met several times and established a project scope that called for improvements between the Tulare County Line and 1,000 feet north of Adams Ave.

A contract with Quad Knopf was awarded by COG to perform the work identified in the PDT scope.

During the preliminary engineering phase of the project, County staff identified some issues north of the revised project limits that needed additional investigation and requested that the project scope be expanded to the limits shown in the original Expenditure Plan. Fresno COG reviewed the County request, evaluated revenue forecasts and determined that the original scope was still feasible. The budget for the additional work to extend the limits to American Avenue was moved forward from 2015/16 during the recently approved Measure “C” Extension Expenditure Plan Update (December 2010). Fresno COG has negotiated a contract amendment with Quad Knopf to include the additional work in the amount of \$64,750.

Enclosed: Resolution 2011-11
Revised Scope of Work

Action 1: Adoption of Resolution 2011-11 –which approves the Amended Cooperative Agreement between the Transportation Authority and Fresno COG to reflect changes approved in the December 2010 Measure “C” Extension Expenditure Plan Update

Action 2: Approval of contract amendment with Quad Knopf for additional work to extend limits of the project (which reflect the original Expenditure Plan’s project limits) from American Ave. to the Tulare County line, not to exceed \$64,750.

**BEFORE THE
Fresno Council of Governments
RESOLUTION NO. 2011-11**

In the Matter of:

MEASURE "C" GOLDEN STATE
CORRIDOR ECONOMIC
DEVELOPMENT INFRASTRUCTURE
IMPROVEMENTS- Rural Project F

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**RESOLUTION OF APPROVAL
Amended Cooperative Project Agreement
FOR THE FRESNO COUNCIL OF
GOVERNMENTS, 2010/11**

WHEREAS, The Fresno County Transportation Authority (Authority) is the administrator of the Retail Transactions and Use Tax (1/2 cent) Funds which are collected pursuant to the Fresno County Transportation Improvement Act as provided by Part 1.6 (commencing with Section 7251) of Division 2 of the Revenue and Taxation Code and Public Utilities Code Sections 14200, et seq, and

WHEREAS, The Fresno Council of Governments is eligible for funds for the regional transportation program pursuant to California Public Utilities Code Section 142257, and

WHEREAS, The Golden State Corridor Economic Development Infrastructure Improvements-rural project F is identified for funding of \$515,000 FY2008-09 in the Measure "C" Extension Short-term Rural Project Schedule, and

WHEREAS, A Cooperative Project Agreement is required for each Project or Project Phase as determined by the Authority, and

WHEREAS, The Cooperative Project Agreement allows a Responsible Agency to deliver a project and request eligible Project funding (Measure "C") from the Authority that has been programmed for specific street and highway projects in the Handbook and consistent with the Regional Transportation Program projects listed in the Expenditure Plan, and

WHEREAS, an Amended Cooperative Agreement is necessary to reflect the programming change made in the recently approved 2010 Measure "C" Extension Expenditure Plan Update which moved \$64,750 from 2015/16 to 2010/11 and reflects the original Expenditure Plan project limits from American Ave. to the Tulare County line.

NOW, THEREFORE, BE IT RESOLVED, that the Fresno Council of Governments hereby approves the Amended Cooperative Project Agreement with Fresno County Transportation Authority for the Measure "C" Golden State Corridor Economic Development Infrastructure Improvements, and authorizes the Executive Director and the Chairman of the Fresno Council of Governments Policy Board to sign the Amended Cooperative Project Agreement.

THE FOREGOING RESOLUTION was passed and adopted by the Fresno Council of Governments this 26th day of May, 2011.

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST:

Signed: _____
Amarpreet Dhaliwal, Chairman

I hereby certify that the foregoing is a true copy of a resolution of the Fresno Council of Governments duly adopted at a regular meeting thereof held on the 26th day of May, 2011.

Signed: _____
Tony Boren, Executive Director

Golden State Corridor Proposed Scope of Work Amendment

American Avenue Extension - Detailed Work Plan

This proposed scope of work revises the original location of the Golden State Corridor project to now include from **1,000 feet north of Adams Avenue to American Avenue, and is referred to as the American Avenue Extension**. The American Avenue intersection is not included because it is being studied by Fresno County under a separate project. We will work with Fresno County and their consultant to ensure that both projects are consistent with each other. This scope of work specifically does not include LOS analysis or traffic counts within this new area.

Task 1 Planning Design Guidelines

Objectives

- ◆ Incorporate the American Avenue Extension into the Design Guidelines Manual

Subtask 1.1 - Data Collection

- Collect current General Plan and Zoning information along the American Avenue Extension.
- Review current plans for Class I Bike Trail along the American Avenue Extension, along with the County's BTA grant request to provide funding for trails in the County portions of Golden State Blvd.

Subtask 1.2 – Site Observations

- Visit the American Avenue Extension and capture digital images.
- Prepare written summary of site visit and distribute to team and participating agencies.
- Identify and analyze the changes needed to update the Design Guidelines Manual to include the American Avenue Extension.

Subtask 1.3 – Prepare and Submit Draft Documents

- Prepare a revised draft "*Golden State Boulevard Design Guidelines Manual*" that incorporates the American Avenue Extension.
- Distribute draft manual to Golden State Advisory team and County of Fresno for review and comment.

Deliverables

- ◆ Revised Draft "*Golden State Boulevard Design Guidelines Manual*"

Task 2A Topographic Mapping and Aerial Photography

Objectives

- ◆ Add the American Avenue Extension area to the base map/topographic survey

Subtask 2A.1 – Aerial Mapping

- a. Prepare aerial photogrammetry mission specifications.
- b. Establish vertical control for the American Avenue Extension.
- c. Establish primary horizontal control for the American Avenue Extension and target locations.
- d. Set photo targets.

Subtask 2A.2 - Supplemental Topographic Survey and Horizontal Control

- a. Locate utilities and any features in the American Avenue Extension that could not be adequately captured by the aerial mapping because of obstructions or limitations of aerial imagery. This will include:
 - ◆ Culverts
 - ◆ Bridges
 - ◆ Water valves
 - ◆ Sewer and storm manhole inverts
 - ◆ Drop inlets with inverts
 - ◆ Utility boxes
- b. Tie-in street, section corner, and other monuments to assist in preparing the right of way drawing in the American Avenue Extension.

Subtask 2A.3 - Right of Way Research and Base Map

- a. Submit requests to the utility companies for copies of plat maps and/or redlines showing the approximate locations of their existing facilities within the limits of the American Avenue Extension.
- b. Develop a base map to show the existing rights-of-way in the American Avenue Extension area. The research and basis for the existing rights-of-way will include acquiring record maps, right-of-way maps and assessor's maps.

Deliverables

- ◆ Topographic Base Map with 6-inch pixel resolution color digital orthophotos for the American Avenue Extension limits in a format similar to that of the original Base Map.

Task 2B Preliminary Roadway Design Plans (30% level)

Objectives

- ◆ Prepare design plans for the American Avenue Extension roadway that can be used to apply for grant funding and for completion of 100% construction plans in the future.

Subtask 2B.1 - Roadway Geometrics

- a. Research and obtain base plans and as-built plans (if applicable) for the American Avenue Extension, including the existing intersections. The base plans will be obtained in a file format compatible with AutoCAD software and will be utilized in developing the preliminary roadway design plans.
- b. Conduct a field review of the American Avenue Extension and verify existing traffic signing and striping, number of lanes, median locations, bike facilities, pedestrian facilities, lighting, and other related features. Specific features will be documented, such as sign types, types of bicycle facilities (path, lane, and route), type of lighting poles, traffic control (signal, stop signs, etc.), lane geometry, signal phasing/timing (if applicable), pedestrian and bicycle facilities, vehicle/bicycle/pedestrian detection (if applicable), etc., will be documented.
- c. Continue Class 1 bikeway along west side of Boulevard within existing right-of-way.
- d. Prepare a layout of the proposed improvements along the American Avenue Extension consistent with the visioning document. At a minimum, the plan shall:
 - ◆ Depict the entire project corridor in plan view on individual plan sheets at 1"=40' scale on topographic and aerial mapping. (Cross-sections will not be developed.)
 - ◆ Include all existing and proposed pavement striping for the entire length of the project corridor.
 - ◆ Depict and identify existing and proposed striping by type, color, and width, and completely dimension it across the roadway.
 - ◆ Identify striping to be removed.
 - ◆ Locate by station or dimension lines all pavement arrows, legends, crosswalks, etc.
 - ◆ Depict standard signs from the signing plan on the traffic pavement-striping plan.
 - ◆ Depict all existing and proposed travel lanes, median islands (30' maximum), curb and gutter, sidewalks, bicycle and pedestrian facilities, landscaping, and irrigation for entire length of the project corridor.
 - ◆ Indicate type and location of all existing and proposed street lighting poles.
 - ◆ Depict traffic signal synchronization and interconnect consistent with the applicable ITS Standards and Specification which shall include but not be limited to:
 1. Install 6-pack (1 2-inch) HDPE SR-11 communication conduit with one Toneable conduit.
 2. Install Fiber Cable between each intersection.

3. Install ITS switches at each intersection with fiber optic communication (one switch per controller with media converter).
4. Install ITS fiber optic communication vault with COM CABINET AND GROUND.
5. Install two cameras on 45-foot poles at each intersection
6. Install Mule-tape in all conduits.
7. Connect these roadway ITS segments with the nearest completed ITS backbone segment.

Subtask 2B.2 - Roadway Conceptual Landscaping

- a. Prepare 30% landscape plans based upon road geometrics and draft "*Golden State Boulevard Design Guidelines Manual*" for the American Avenue Extension. Plans will show tree counts, and turf and groundcover areas. Irrigation design will describe points of connection and general layout.

Subtask 2B.3 - Utility Coordination

- a. Identify existing utilities that would require relocation.
- b. Note on plans for future redesign.

Deliverables

- ◆ Preliminary Roadway Design Plans (Geometrics only, 30% level) for American Avenue Extension
- ◆ Draft Roadway and Landscape Design Plans (30% level) for American Avenue Extension
- ◆ Final Roadway and Landscape Design Plans (30% level) for American Avenue Extension

Task 2C Preliminary Intersection Design Plans (30% level)

Objectives

- ◆ Prepare design plans for intersections along the American Avenue Extension that can be used to apply for grant funding and for completion of 100% construction plans in the future.

Subtask 2C.1 - Intersection Design Plans

- a. Prepare intersection design plans.

At a minimum, the plan shall include the following in addition to the information identified in Task 2B.1 above:

- ◆ Identify the location and type of traffic control. For signalized intersections, the location and type of signals and poles will be shown.
- ◆ Show lane geometries and lane widths at all approaches.

Subtask 2C.2 - Intersection Landscaping

- b. Prepare 30% landscape plans for the American Avenue Extension based upon road geometrics and draft "*Golden State Boulevard Design Guidelines Manual*". Plans will show tree counts, and turf and groundcover areas. Irrigation design will describe points of connection and general layout.

Subtask 2C.3 - Railroad/Utility Coordination

- a. Coordinate with the Union Pacific Railroad (UP) and the PUC to accommodate the upgrades and widening of the intersections in the American Avenue Extension as needed.

Task 2D Preliminary Engineers Estimate and Additional Considerations

Objectives

- ◆ Obtain cost estimates for use in Measure C budgeting and grant applications for the American Avenue Extension.

Subtask 2D.1 - Cost Estimates

- a. Include the costs of the American Avenue Extension in the Preliminary Engineering Report for the Corridor based upon anticipated phasing.
- b. Prepare cost estimates based on 30% design plans. Estimates will be broken down by segment phases, intersections, and/or other agreed upon categories.

Deliverables

- ◆ Cost Estimate Tables and Report

Task 3 Environmental Documents

Objectives

- ◆ Include the American Avenue Extension in the Environmental documents' project scope.

Subtask 3.1 - Technical Studies (CEQA Document)

- a. Include the American Avenue Extension in the Technical Studies scopes.

Subtask 3.2 - Technical Studies (NEPA Document)

- a. Include the American Avenue Extension in the Technical Studies scopes.

Subtask 3.3 - CEQA Document

- a. Include the American Avenue Extension in the CEQA document.

Subtask 3.4 - NEPA Document

- a. Include the American Avenue Extension in the NEPA document.

Deliverables

- ◆ CEQA document will include American Avenue Extension
- ◆ NEPA document will include American Avenue Extension

Budget and Billing Format

The project fee breaks down by task as follows:

Task 1.	Planning Design Guidelines	\$6,740
Task 2A.	Topographic Mapping and Aerial Photography	\$33,260
Task 2B.	Preliminary Roadway Design Plans (30% level)	\$8,900
Task 2C.	Preliminary Intersection Design Plans (30% level)	\$1,300
Task 2D.	Preliminary Engineers Estimate & Add'l Considerations	\$2,600
Task 3.	Environmental Documents	<u>\$11,950</u>
TOTAL		\$64,750

These fees would be billed on a separate invoice with separate billing summary sheets using the same task names and formats as the larger, original budget.