

**Metropolitan Transportation Commission  
Regional Network Management Committee**

**February 14, 2025**

**Agenda Item 2b**

**Contract – Vehicle Detection System (VDS) Pilot Program Feasibility Study and Support:  
Kimley-Horn and Associates, Inc. (\$352,000)**

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**Subject:**

Request for approval of a contract with Kimley-Horn and Associates, Inc. (“Kimley-Horn”) to provide technical assistance on the Vehicle Detection Services Pilot Program Feasibility Study project in an amount not to exceed \$352,000. The term of the contract shall be for one (1) year and six (6) months, with an option to extend for an additional one (1) year and six (6) months.

**Background:**

Vehicle detectors on Bay Area highways are critical for daily traffic operations management – including several of MTC’s ongoing projects, such as Adaptive Ramp Metering Implementation and I-880 Optimized Corridor Operations – and for near- and long-term data collection.

Currently, Caltrans maintains an extensive network of in-pavement magnetic loop detectors on freeway mainlines and ramps. However, loop detectors are susceptible to outages and are challenging to maintain.

The purpose of this pilot program is to address on-going maintenance challenges with regionwide Vehicle Detection Sensor (VDS) upgrades. This contract will fund an initial feasibility study to evaluate the current state of detectors on an example corridor (US-101 in Santa Clara and San Mateo Counties) and to identify challenges to maintain existing detectors. The study will assess detection needs for Caltrans and partner agencies, as well as explore the potential for utilizing other detector technologies. MTC will manage this project in close partnership with Caltrans District 4.

**Procurement Process**

In July 2021, after a competitive procurement process, the MTC Operations Committee approved the 2021 Transportation Engineering and Planning Services Bench (2021 TEP Bench) comprised of 38 pre-qualified firms divided among five service categories. On October 14, 2024 MTC invited all firms pre-qualified on the 2021 TEP Bench, in Service Categories A Freeway Operations, Data Analytics, and Performance Assessments, B Connected and Automated

Vehicles, Traffic Sensors, and Other Advanced Technologies, C Arterial Operations, and/or E: Transit Planning and Engineering as a prime contracting firm to propose for this project.

MTC received four proposals from: 1) Kimley-Horn and Associates, Inc.; 2) Iteris, Inc.; 3) DKS Associates; and 4) Advanced Mobility Group. An evaluation panel comprised of MTC and Caltrans staff reviewed the proposals based upon the following evaluation criteria, with relative weights indicated in percentages: 1) Qualifications and Team Experience (30%); 2) Approach (25%); 3) Cost Effectiveness (30%); and, 5) Presentation (15%). The table below provides the final ranking based upon the panel evaluations:

Ranking	Consultant
1	Kimley-Horn and Associates, Inc.
2	Iteris, Inc.
3	DKS Associates
4	Advanced Mobility Group

After the initial evaluation, the panel unanimously decided to place Kimley-Horn and Iteris, Inc. on a shortlist for further consideration. Other firms were not placed on the shortlist as the Kimley-Horn and Iteris, Inc. teams demonstrated significantly stronger qualifications in vehicle detection and traffic management systems on Caltrans right-of-way. Both firms were interviewed on December 11, 2024, to clarify their approach and qualifications. Based on the evaluations results, the panel unanimously recommends the selection of Kimley-Horn. The Kimley-Horn team demonstrated its qualifications and experience with similar vehicle detection and Caltrans operational projects. Kimley-Horn is neither a small business enterprise (SBE) nor a disadvantaged business enterprise (DBE). A summary of their subconsultant SBE and/or DBE status is included in Attachment A.

**Issues:**

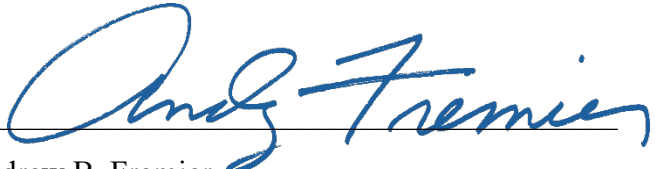
None identified.

**Recommendations:**

Staff recommends that the Regional Network Management Committee authorize the Executive Director or designee to enter into a contract with Kimley-Horn in the amount of \$352,000 for the above-described work. The term of the contract shall be for one (1) year and six (6) months, with an option to extend for an additional one (1) year and six (6) months.

**Attachments:**

- Attachment A: Disadvantaged Business Enterprise and Small Business Enterprise Status
- Attachment B: Request for Committee Approval – Summary of Proposed Contract Amendment



Andrew B. Fremier

**Disadvantaged Business Enterprise and Small Business Enterprise Status**

	<b>Firm Name</b>	<b>Role on Project</b>	<b>DBE* Yes / No</b>	<b>If DBE Yes, List #</b>	<b>SBE** Yes / No</b>	<b>If SBE Yes, List #</b>
Prime Contractor	Kimley-Horn and Associates, Inc.	Project management, technical expertise, evaluation and demonstration	No		No	
Subcontractor	Circlepoint	Outreach	Yes	50993	No	

\*Denotes certification by the California Unified Certification Program (CUCP).

\*\*Denotes certification by the State of California.

**Request for Committee Approval**

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**Summary of Proposed Contract**

Work Item No.: 1223

Consultant: Kimley-Horn and Associates, Inc.  
Oakland, CA

Work Project Title: Vehicle Detection System (VDS) Pilot Program Feasibility Study and Support

Purpose of Project: To assess the current state of the Vehicle Detection System loop detectors on US-101 in San Mateo and Santa Clara Counties and to recommend potential alternative technologies.

Brief Scope of Work: The consultant shall provide technical assistance to assess the current state of Vehicle Detection System loop detectors on US-101 in San Mateo and Santa Clara Counties and will evaluate and recommend alternative detection technologies.

Project Cost Not to Exceed: \$352,000

Funding Source: Federal Surface Transportation Program

Fiscal Impact: Funding is included in the FY 2024-25 MTC Budget

Motion by Committee: That the Executive Director or designee is authorized to negotiate and enter into a contract with Kimley-Horn and Associates, Inc. for Vehicle Detection System (VDS) Pilot Program Feasibility Study and Support project described above and in the Regional Network Management Committee Summary Sheet dated February 14, 2025 and that the Chief Financial Officer is authorized to set aside \$352,000 for such contract.

Regional Network  
Management Committee:

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Sue Noack, Vice Chair

Approved: February 14, 2025