

Exhibit A

Scope of Work for On-Call Traffic Engineering Services

The total contract amount for Fiscal Years 2019/20, 2020/21, And 2021/22, is in the amount of \$240,000. This includes an estimated \$60,000/year budget for On-Call Traffic Engineering Consultant Services and \$20,000/year budget for additional work related to Capital Improvement Program projects. If two (2) one-year options are authorized by the City Manager, the total Contract value may increase up to \$400,000.

On-Call Traffic Engineering Consultant Services may include, but is not limited to, items such as:

- Traffic Signal Network Documentation – Signal equipment inventory, Maps for signals/ITS, and IP Network Schematics.
- Signal Cabinet Cleanup / Equipment Replacement Program – Timing sheet archiving, reproduction, and distribution. Recommendations for equipment replacements in the maintenance program.
- IDEA Grant Project Support – RFP/RFQ for signal controller upgrades and central system procurements. TSP settings for controllers.
- UC Berkeley SAFETRAC Study – Professional Traffic Engineering peer review.
- Greenway Trails – Recommendations for passive bicycle detection.
- IP/PTZ Cameras Placement Plan -Recommendations for ideal locations.
- As Needed Traffic Engineering Services - Perform other traffic engineering services as directed by the Public Works Director, on an on-call basis.

Capital Improvement Program projects may include, but is not limited to, items such as:

- CAD Design support
- Specifications writing
- Construction Submittal Reviews

Iteris, Inc. has submitted a rate sheet for services that will be rendered during Fiscal Year 2019/2020. The rate sheet will be adjusted each fiscal year providing the Contractor with a cost of living adjustment based on the Bay Area Consumer Price Index, to a maximum of 5% per year. They have also submitted a resume for their Project Manager, David Huynh. These are attached within this Exhibit A on the following pages.

D INDIVIDUALS PERFORMING THE WORK

With offices in Santa Ana (headquarters), Los Angeles, and Oakland, Iteris has the resources of **over 100 team members throughout California** dedicated to Traffic Engineering, Transportation Planning, and ITS. Iteris strives to help clients solve the problems that are the focus of this contract by providing solutions that work, solutions that innovate, and solutions that are smart. These are reasons why clients know Iteris as a firm that goes above and beyond expectations to make client projects successful. One method to achieve these goals is by offering clients a team of experts, whose mission it is to assist the Project Team with innovative ideas, problem solving solutions, and quality control. Iteris is pleased to present the following individuals (see **Table 3**) to be assigned to the project and assist the Project Manager successfully deliver this project to the City.

Table 3 – Individuals Performing the Work

STAFF	ROLE	Traffic Engineering	Traffic signal Operations	ITS
Iteris				
David Huynh, PE	Project Manager	●	●	●
Scott Carlson, PE	Principal-in-Charge & QA/QC	●	●	●
Alicia Yang, PE	Task Lead	●	●	
Richard Shinn	Task Lead	●		●
Paul Frislie, PE, IMSA	Project Engineer	●		●
Ted Huynh, PE, TE	Project Engineer	●		
Kassra Rafiee	Project Engineer	●	●	
Charles Askar, PE	Project Engineer		●	
Matthew Redmond	Project Engineer		●	●
George Gener	Project Engineer			●
Shayan Khoshmagham	Project Engineer			●
IDAX				
Mark Skaggs	IDAX Project Manager	●	●	●
Robert Donnell	Traffic Count Task Lead	●	●	●

Key Personnel



DAVID HUYNH, PE | Project Manager & Task Lead

Mr. Huynh will serve as the Project Manager for this project and will be the principal contact with the City and other entities per City’s direction. Mr. Huynh will be responsible for coordinating staff activities, coordinating meetings, project strategy and will oversee work from project inception to completion. Mr. Huynh serves as an Associate Vice President of Iteris’ Transportation Systems and has been with the firm since June 2014. Mr. Huynh brings over 23 years of transportation experience having worked in both the public and private sectors with a focus on traffic engineering, design, ITS, operations, signal systems, communications design, TSP design and implementation, connected vehicle, and system engineering. Mr. Huynh previously served as the Senior Transportation Engineer for the City of Fremont where he managed the Transportation Group and was responsible for operation and management of the City’s traffic signals and central signal system, project delivery of capital projects, transportation analysis and plan review for new developments. With his extensive background and experience on other projects similar to this one, Mr. Huynh is the ideal Project Manager for the City.

Education and Registrations
 MS, Civil Engineering
 BS, Civil Engineering
 PE, CA #602320



SCOTT CARLSON, PE | *Principal-in-Charge & QA/QC*

Mr. Carlson serves as Vice President and Assistant General Manager for Iteris' Transportation Systems division and has been with the firm since October 2000. He has over 25 years of experience in transportation engineering, traffic control and management. Mr. Carlson manages Iteris' Western Region of Systems that includes nearly 80 transportation planners, traffic engineers and software engineers in offices throughout the western United States. His expertise encompasses both highway and arterial transportation networks to implement traffic signal management systems, ITS, TSP, and traffic engineering projects. These projects vary from traditional traffic engineering and signal timing projects, to citywide Smart City communication networks, to ICM Systems. Currently, Mr. Carlson is currently serving as Iteris' Expert Advisor on the I-405 Design-Build project, where Iteris is providing ITS, Traffic Engineering, Traffic Management Plan (TMP) and Maintenance of Traffic (MOT) services, and is also serving as Program Manager on the Caltrans District 12 ICM project.

Education and Registrations

BS, Civil Engineering
PE, CA #57886
PE, AZ #34416
PE, ID #9962
PE, CO # 35342
PE, TX #99160
PE, NV #021151



ALICIA YANG, PE | *Task Lead*

Mr. Yang serves as an Associate Vice President for Iteris' Transportations Systems division and has been with the firm since July 2005. She has over 14 years of experience working in traffic operations and engineering, transportation planning, transportation design, and various transportation software. Ms. Yang has experience in various aspects of transportation engineering, but specializes in traffic operations having worked on a number of regional (multi-agency) signal synchronization and special events timing projects. Ms. Yang has been involved in all tasks in signal synchronization projects, from field reviews and travel time studies to implementation (locally or centrally) and field fine-tuning. Ms. Yang has also led signal timing implementation and fine-tuning training courses to City staff operating Actra and Centracs central traffic control systems. Ms. Yang's software knowledge includes Synchro, AutoCAD, MicroStation, PC-Travel, ArcGIS, Tru-Traffic and VISSIM. She has worked with signal controllers such as 170, 2070, D4, M52, Econolite and Multisonics; controller firmware including BI Tran, C8, Econolite, NextPhase, Naztec, Omni and SEPAC; and traffic control systems such as Actra, Aries, ATMS.now, Centracs, i2, icons, Maxview, QuicNet, Transparity, TransSuite, Tactics, and VMS.

Education and Registrations

BS, Civil Engineering
PE, CA #82483
PE, AZ #66343
PE, ID #17758
PE, NE #E-16998
PE, FL #84780
PE, MO #2018009542
PE, TX #129847



RICHARD SHINN | *Task Lead*

Mr. Shinn serves as an Associate Vice President of Iteris' Transportation Systems division and has been with the firm since May 2011. He has over 29 years of experience in ITS, Smart Cities, Internet-of-Things (IOT), systems engineering, telecommunications engineering, network analysis, systems management and system integration. This has involved fiber optic cable system design, video system design, wireless communications, and Gigabit Ethernet network design. Elements include the design of Traffic Operations Centers, preparation of PS&E documents, preparation of FHWA Systems Engineering documents, and system integration services. Mr. Shinn is a practitioner in the expanding ICM field, having played a key role in the systems engineering aspects of the I-80 ICM project as well as the design and construction of Washington State's first ICM deployment. In addition, he has led Iteris' extensive involvement in the San Mateo County Smart Corridor for the last eight years. Mr. Shinn's an industry leader in ITS Strategic Planning for small- and medium-sized communities and has been assisting public agencies with preparing for CAV.

Education

MS, Systems
Technology (Scientific &
Technical Intelligence)
BS, Accountancy

G BILLING RATES

Table 4 provides a schedule of Iteris standard hourly rates by job classification.

Table 4 – Iteris Standard Fee Schedule

CLASSIFICATION	STANDARD BILLING RATES*	
	Min	Max
Support Staff	\$100	\$125
Analyst	\$100	\$110
Assistant Engineer/Planner	\$105	\$135
Associate Engineer/Planner	\$135	\$150
Engineer/Planner/Data Scientist	\$150	\$175
Senior Engineer I/Senior Planner I	\$175	\$225
Senior Engineer II/Senior Planner II	\$225	\$275
Associate Vice President	\$275	\$305
Principal/Vice President	\$305	\$345
Software Development Engineer I & II	\$120	\$180
Software Development Engineer III & IV/Software Development Lead	\$180	\$280
Senior Development Engineer I & II	\$175	\$205
Senior Development Engineer III & IV	\$235	\$305

**Rates above effective through May 31, 2020*

Standard Terms and Conditions

- Billings will be monthly at the individual Categories and Maximum Rates for the persons actually performing the work during the performance period and are subject to annual adjustments.
- An escalation of 4% will apply to the rates above effective June 1 of each year, starting June 2020.
- Expenses will be billed at cost plus 10% for services and handling. Expenses include project-related costs, such as subcontractor services, traffic counts, postage/delivery service, reproduction, transportation, and subsistence.
- All mileage rates will be based upon IRS standard rates (\$0.58 as of January 1, 2019).

IDAX Price List 2019 – Bay Area

- Prices are for individual or small orders. Larger volumes can result in unit-price decrease.
- All data is guaranteed and will be recollected immediately if there are any issues.
- Metropolitan Bay Area is considered local and will not incur Travel Charges

PEDESTRIAN AND BICYCLE COUNTS:

VIDEO COLLECTION:

NOTE: MINIMUM FEE PER JOB OF \$200

SEGMENT COUNT: \$20/HOUR

INTERSECTION COUNT: \$40/HOUR

TURNING MOVEMENT COUNTS (FULL TMC):

STANDARD DELIVERABLE:

\$65/HOUR

LANE GEOMETRY:

\$20/INTERSECTION

ROUNDBABOUTS:

\$125/HOUR

DRIVEWAY IN/OUTS:

\$45/HOUR

2-HOUR ONLY COLLECTION: FLAT \$200

4-HOUR ONLY COLLECTION: FLAT \$300

ROADWAY SEGMENTS COUNTS:

TUBES:

VOLUME ONLY (ADT):

24-HR \$150

72-HR \$250

7-DAY \$350

SPEED/CLASS/VOLUME COUNTS:

\$200

\$300

\$400

VEHICLE GAP STUDIES

\$225

\$325

\$425

MINIMUM TUBE ORDER: FLAT \$225

SPEED RADAR COUNTS:

HAND-HELD RADAR GUN

\$85/HR

VIDEO COUNTS:

VOLUME COUNTS (UP TO 3 CLASSES):

24-HR \$8/LANE/HR

72-HR \$6/LANE/HR

7-DAY \$5/LANE/HR

COLLECTION ONLY:

\$300/DAY/CAMERA

REDUCTION ONLY:

BID ON INDIVIDUAL BASIS

ORIGIN/DESTINATION STUDIES (OD STUDIES):

INRIX TRIP DATA:

BID ON INDIVIDUAL BASIS

WIFI/BLUETOOTH:

\$1000/WEEK/STATION

LICENSE PLATE:

\$135/CAMERA/HOUR

TRAVEL TIME STUDIES:

INRIX ROADWAY ANALYTICS:

BID ON INDIVIDUAL BASIS

WIFI/BLUETOOTH:

\$1000/WEEK/STATION

FLOATING CAR:

\$100/HOUR

MINIMUM OF 6 HOURS FOR FLOATING CAR

TECHNICIAN RATES

TECHNICIAN 'IN FIELD' DATA COLLECTION:	\$65/HOUR
TRAVEL OUTSIDE LOCAL AREA:	\$65/HOUR
TECHNICIAN DOWNTIME:	\$25/HOUR

ADDITIONAL SERVICE OFFERINGS

QUEUE COLLECTION:	BID ON INDIVIDUAL BASIS
ASSET COLLECTION:	BID ON INDIVIDUAL BASIS
PARKING STUDIES:	BID ON INDIVIDUAL BASIS
MIOVISION DATALINK VIDEO PROCESSING	\$10/HR (ADDITIONAL TO STANDARD TMC RATE)
MIOVISION CONNECT (SPEED & TRAVEL TIME)	\$20/HR (ADDITIONAL TO STANDARD TMC RATE)
DELIVERY OF PROJECT VIDEO:	\$10

If you have any questions/concerns, please email project.manager.ca@idaxdata.com and one of our Project Managers will get back to you shortly, or feel free to give us a call.

Mark Skaggs | COO

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