

AMENDMENT NO. 1

CITY OF CHICO - PROFESSIONAL SERVICES AGREEMENT

AGREEMENT DATED SEPTEMBER 3, 2019

BETWEEN CITY OF CHICO

AND

M2 TRAFFIC MANAGEMENT LLC

Architect/Consultant/Engineer

1-CLICK TRAFFIC ANALYTICS

Project Title

307-000-8801/16011-307-4800

Budget Account Number

THIS PROFESSIONAL SERVICES AGREEMENT AMENDMENT (Amendment) is entered into on June 9, 2020, between the City of Chico, a municipal corporation under the laws of the State of California (City), and M2 Traffic Management, LLC, (Consultant). On September 3, 2019, City and Consultant entered into "City of Chico - Professional Services Agreement" (Agreement). The provisions of the Agreement are hereby amended as follows:

1. Exhibit B is hereby superseded and replaced by revised Pages B1-R1 through B3-R1 attached hereto.
2. Exhibit C is hereby superseded and replaced by revised Pages C1-R1 through C2-R1 attached hereto.
3. All other provisions of the Agreement shall remain in full force and effect.

CITY:

CONSULTANT:

Mark Orme, City Manager*

Afroz 06/02/2020
By: AFROOZA HOSSAIN
Title PRINCIPAL


*Authorized pursuant to Section 3.08.060
of the Chico Municipal Code

APPROVED AS TO FORM:



Andrew L. Jared, City Attorney*


APPROVED AS TO CONTENT:



Brendan Ottoboni, Public Works Director,
Engineering

*Pursuant to The Charter of the
City of Chico, Section 906(D)

REVIEWED AS TO CONTENT:



Scott Dowell, Administrative Services Director*

*Reviewed by Finance and Information Systems

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EXHIBIT B

SCOPE OF PROFESSIONAL SERVICES - BASIC; COMPLETION SCHEDULE

Scope of Professional Services - Basic

The Consultant shall provide professional services as follows:

Consultant shall provide two traffic counts management applications, one is used to store and display intersection turning movement, and the second is used to store and display tube counts (24-hour Volumes, Classifications, and Speed).

Overall Traffic Data Management & Analytics Tool:

- The online traffic data management and analytics tools would be equipped with a search tool/search engine to drill-down to available any traffic information so that a user can find available traffic data which meets their specific needs.
- Google Maps based data visualization tool will allow any user to access the traffic data from any industry standard internet browser.
- The intuitive and user-friendly characteristics of Google Maps would provide an excellent platform to tailor the display of information.

Deliverables: The following features and functionalities would be available for Peak Hour and 24-HR traffic data management and analytics applications.

- **Data Storage** - Turning movement counts, % of Heavy Vehicles, Pedestrians, and Bikes will be stored for different time frames for future reference.
 - 24-HR Volume, Classification, and Speed data will be stored for different time frames for future reference.
- **Online portal** -Traffic data will be made available to internal and/or external customers as specified by the City, reducing staff time required to respond to data requests.
- **Google Maps**- The tool will integrate Google Maps\any other maps for easy identification and selection of desired data locations.

- **Tools & Analytics** - The tool will be equipped to provide traffic counts analytics, graphs, charts and heatmaps.
 - The module will be equipped to verify any new traffic data against previous data from the same location.
 - An average value of the traffic volume could be calculated by approach (NB, SB, NS, WB, EB, and EW) of all the selected intersections/locations.
 - Heat Map – A user will be able to generate multiple heat maps using the available traffic data.
- **User's Interface** - The City's logo and Name will be visible on the front end of the application and the City's website color code will be used (Provided by city).
 - The contractor will add notes, general guidelines, and contact details provided by the City to the front end of the application.
 - Contact information for City staff will be added to the application.
- **User's Manual** - A user's manual will be developed and integrated into the application.
 - In addition to the user's manual, a list of general guidelines will be displayed when a user opens the online traffic data portal.
- **API Access**- The application will be equipped with API to remotely access the traffic data in JSON format to integrate with other applications. The API access is secured and not open to the public. Our server uses token-based authentication to secure our API endpoints. This system works in the following way: User authentication is required to use the API services
 - Application server validates the authentication and generates a signed token.
 - The user receives a response with the signed token.
 - Two options are available. 1. A user needs to request further API calls by appending token. 2. The token will be maintained by the application itself for each further API calls.
 - The token is valid for a specific period. Once user's token expires, re-authentication is required to access the API services.
- **Data Download & GIS compatibility** – A user will be able to download the traffic analytics/data in GIS (KML/KMZ) compatible format.
 - Overlay on Google Maps different GIS layers (KML/KMZ - City to provide) such as Posted Speed limit, Functional Classification map, and priorities map.
 - Download the data by year or a range of date.
- **Data Summary** - A summary of all the counts by year, type.

Amendment No. 1 Services

Complete Crash Analytics Tools (CCAT) which includes:

- **Crash Query and Map** – A complete geospatial crash analytics tool that shall provide overall Citywide safety status by modes (*i.e., General Traffic, Bikes, Pedestrians*)
- **Motorcycle Crashes** – A geospatial crash analytics tool to explore motorcycle collisions.

- **Active Transportation Crashes** – A multi-stepped geospatial crash analytics tool that shall identify pedestrian and bicycle collisions hot spots and shall generate data summaries.
- **Safe Route to School Crashes** – A geospatial crash analytics tool that shall identify pedestrian and bicycle collisions around the schools and shall generate data summaries.
- **Safety Performance Measures** – An analytics tool which shall provide five (5) safety performance measures following guidelines provided by FHWA.

Initial Setup: City shall send crash data to Consultant and the cloud-based application shall process and upload the data onto the application. Consultant's team shall conduct QA-QC and shall send City a web link to review before it shall become available for the targeted audience. The weblink can be embedded on the City's website and can be accessible by anyone.

On-Going Data Upload: After initial setup, City shall send additional data as the additional data gets collected, and Consultant's cloud-based application shall process and upload the data onto the application.

Completion Schedule

The Consultant shall complete all services outlined herein in compliance within sixteen (16) weeks of receipt of the City's Notice to Proceed.

Amendment No. 1 Completion Schedule:

The Consultant shall complete all services outlined herein in compliance within 6-8 weeks of receipt of City's Notice to Proceed.

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EXHIBIT C

COMPENSATION

Compensation for the services shall be in accordance with the following schedule of hourly rates. Total maximum compensation for the services outlined herein shall not exceed ~~\$12,500.00~~
\$32,000.00

Compensation shall be based upon actual invoices received and shall be paid according to the following schedule:

Original Agreement:

No.	Factors	Small-Medium (Pop 50k-150k)
1	Number of Sig/Un-Signalized Intersections	150+
2	Number of 24-HR Traffic Count Locations	150+
3	No. of Years of Data	2+
4	Traffic Data Format Types	3+
5	Traffic Data File Types	Excel/CSV
	Cost	\$7,500.00

Yearly Application Cost: The cost covers application support and maintenance, and on-going data upload processing efforts. The City does not have to process and manage the data.

Agency Size	Peak Hour TC APP Cost/Year	24-HR TC APP Cost/Year	Multi-APP Cost/Year
Small-Medium Pop – 50k-150K	\$3,000.00	\$3,000.00	\$5,000.00

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Multiple year discounts on yearly application for 1-CLICK are as follows:

2-3years = 5% discount 3-5years 3rd license = 10% discount 5years + = 15% discount

Amendment No. 1 Services:

Initial Setup Cost: \$11,000.00

Crash Rate Calculation: \$ 3,500.00

Yearly Application Cost: \$ 5,000.00

Total: \$19,500.00

Original Agreement Not to Exceed: \$12,500.00

Amendment No. 1 Not to Exceed: \$19,500.00

Total: \$32,000.00