

## PROPOSED SCOPE OF SERVICES

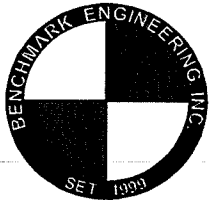
Benchmark Engineering, Inc. will provide the City of Merced, on an "as needed" basis, civil engineering, design and surveying services related to various City of Merced projects. These services are generally needed to assist the Engineering Division to meet a growing need for support for ongoing projects. Services will be provided on an "On-Call" basis, with each service requiring a written scope of services detailing the work to be performed and the required deliverables, along with the schedule and cost estimate from the Consultant to perform that work, which the City must authorize in writing prior to commencement of services by the Consultant.

Our team, in concert with the City's Project Manager, will be able to provide the following services:

- Engineering Design and Surveying Services
  1. Provide construction plans and specifications of various road projects.
  2. Provide construction plans and specifications for various utility projects (i.e. water, sewer, storm, etc.).
  3. Provide construction support/inspection on various projects.
  4. Provide alignment studies and cost estimates.
  5. Prepare application for various grants.
  6. Prepare various studies that are related to roads, water, sewer, and storm drains.
  7. Assist with regulatory compliance and negotiation with Federal, State, and other agencies as necessary.
  8. Manage sub-consultant to complete the projects (geotechnical, traffic, environmental, etc.).
  9. Prepare topographic and planimetric survey of proposed City projects, including all underground utility location(s) based on USA markings, digital terrain modeling for contour interpolation, profile, cross-section, and earthwork volume calculations.
  10. Prepare drawings of the survey based on the latest AutoCAD version (2019 or newer).
  11. Provide land records research for boundary determination of existing and proposed City properties and right-of-way.
  12. Recover existing monuments, including monuments (section corners, etc.) for property corners, right-of-way monuments, and benchmarks.
  13. Provide retracement surveys.
  14. Re-establish lost or obliterated corners.
  15. Re-establish control points.
  16. Provide construction staking as needed.
  17. Provide record filing including, but not limited to, corner records and records of survey.

18. Provide boundary and right-of-way resolution.
19. Prepare plats and legal descriptions.
20. Perform digital leveling.
21. Conduct as-built surveys.
22. Perform monument preservation.
23. Other tasks that may be requested by the City (i.e. Structural).

Project deliverables will vary based on the work requested. In general, deliverables will include, but not limited to, electronic and/or hard copies of reports, maps, Civil 3D files and other related data. AutoCAD files will be exported using the eTransmit feature to include all fonts, textures, references and pen settings.



# **BENCHMARK ENGINEERING, INC.**

## **CIVIL ENGINEERING & LAND SURVEYING**

### **BENCHMARK ENGINEERING, INC. RATE SCHEDULE 2018**

#### **OFFICE**

##### **CIVIL ENGINEERING, MAPPING AND PLANNING SERVICES**

|                    |           |
|--------------------|-----------|
| Principal          | \$ 160.00 |
| Civil Engineer     | \$ 160.00 |
| Land Surveyor      | \$ 160.00 |
| Project Manager    | \$ 135.00 |
| CAD Technician III | \$ 120.00 |
| CAD Technician II  | \$ 105.00 |
| CAD Technician I   | \$ 90.00  |

##### **ADMINISTRATION**

|                          |          |
|--------------------------|----------|
| Project Coordinator      | \$ 80.00 |
| Administrative Assistant | \$ 60.00 |

#### **FIELD**

##### **SURVEYING**

|                             |           |
|-----------------------------|-----------|
| Land Surveyor               | \$ 160.00 |
| Associate Land Surveyor     | \$ 145.00 |
| Survey Manager              | \$ 135.00 |
| Assistant Land Surveyor     | \$ 120.00 |
| Survey Technician           | \$ 105.00 |
| Survey Assistant            | \$ 90.00  |
| 2 Person Survey Crew        | \$ 250.00 |
| 1 Person Survey Crew        | \$ 145.00 |
| 2 Person Survey Crew Travel | \$ 135.00 |
| 1 Person Survey Crew Travel | \$ 85.00  |

#### **NOTE:**

Expert witness consultation fee is \$300.00 per hour.

The above rate schedule is effective through December 31, 2018 and is subject to adjustment January 1, 2019.