



# Phoenix Civil Engineering, Inc.

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Ms. Jessica Sandifer  
City of Moorpark  
799 Moorpark Ave.  
Moorpark, CA 93021

November 18, 2019

## **MWPRCA – Prop 68 Grant Program – Proposal for Engineering Services**

Dear Jessica-

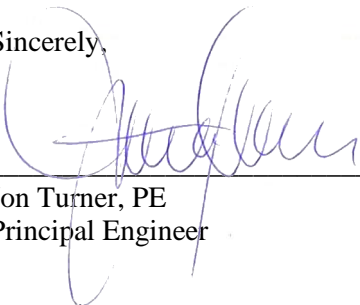
I am pleased to provide you with this proposal for engineering services associated with the Proposition 68 Planning and Design Grant project. The proposed project consists of preparation of conceptual alignments for a pedestrian and equestrian trail from parcel (APN 519-0-210-055) south to a connection point to the path leading to the City of Thousand Oaks (COSCA) trail on land south of Moorpark Road. This project will provide conceptual alignments for a natural path (non-hardscape) and pre-engineered bridge product for an existing drainage crossing. Additionally, the intersection configuration of the Santa Rosa Road and Moorpark Road intersection will be reviewed for the impacts created by the proposed trail crossing. The MWPRCA is applying for a grant as part of the program planning process. As part of this project, Benner and Carpenter, as a subconsultant to Phoenix Civil Engineering will perform an aerial topographic survey of the trail alignment area as well as selected ground topographic survey to be used in the conceptual design layouts of the improvements. A traffic engineering firm will be used to review the potential impacts to the intersection. It is envisioned that the pedestrian bridge will be a pre-engineered product that can be procured by the Contractor or the MWPRCA for the project. No lighting or landscape improvements are included in this proposal. Based on our conversations and my review of the site, I have prepared my proposal to include the following:

Task 101: Topographic Survey  
Task 102: 30% Design Plans  
Task 103: Opinion of Probable Construction Cost Preparation

I appreciate the opportunity to submit this proposal to assist you with this project. I have attached a scope of work and our professional services rate sheet along with a fee schedule detailed by task. Our scope of work covers design services only and does not include permit assistance, design or design assistance during construction services. We can provide these services if requested. We have included the services of a professional land surveyor (Benner and Carpenter) and a traffic engineering firm. The subconsultant fees are marked up by 10% to cover administrative time.

Please let me know if you have any questions or would like to discuss my proposal.

Sincerely,



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Jon Turner, PE  
Principal Engineer

# Scope of Services

## **Background/Project Understanding**

I am pleased to provide you with this proposal for engineering services associated with the Proposition 68 Planning and Design Grant. The proposed project consists of preparation of conceptual alignments for a pedestrian and equestrian trail from parcel (APN 519-0-210-055) south to a connection point to the path leading to the City of Thousand Oaks (COSCA) trail on land south of Moorpark Road. This project will provide conceptual alignments for a natural path (non-hardscape) and pre-engineered bridge product for an existing drainage crossing. Additionally, the intersection configuration of the Santa Rosa Road and Moorpark Road intersection will be reviewed for the impacts created by the proposed trail crossing. The MWPRCA is applying for a grant as part of the program planning process. As part of this project, Benner and Carpenter, as a subconsultant to Phoenix Civil Engineering will perform an aerial topographic survey of the trail alignment area as well as selected ground topographic survey to be used in the conceptual design layouts of the improvements. A traffic engineering firm will be used to review the potential impacts to the intersection. It is envisioned that the pedestrian bridge will be a pre-engineered product that can be procured by the Contractor or the MWPRCA for the project. No lighting or landscape improvements are included in this proposal. Based on our conversations and my review of the site, I have prepared my proposal to include the following:

## **Task 101: Topographic Survey**

Benner and Carpenter, as a subconsultant to Phoenix Civil Engineering, will perform aerial topographic survey and select ground survey of the proposed path alignment and connection point to the parcel south of Moorpark Road. The survey will be used in the design of the improvements at a later date. The aerial work for this project will be combined with another adjacent project. Both will be flown at the same time. The cost split for this proposal is 25% of the total cost of the aerial work.

The following efforts are included in this task:

- Aerial topographic survey of the project alignment. Contours will be at 1 foot and the scale of the survey will be 1-inch equals 20 feet. Ground topographic surveying of select areas on the proposed alignment and the parking lot will be performed.

***Deliverable:*** No deliverable is associated with this task. Information gathered in this task will be used in Tasks 102 through 104.

## **Task 102: 30% Design Plans**

Once Task 101 is complete, it is envisioned that a conceptual path of travel alignment plan will be prepared. The path of travel will be located at the southern end of the MWPRCA owned parcel and will follow the Moorpark Road west side to the intersection of Santa Rosa Road and Moorpark Road. This design will allow for the least amount of grading as possible, while meeting all accessibility requirements. This trail will be compliant in both the cross slope and the longitudinal slope. A pedestrian bridge will be included in the project to span an existing drainage along Moorpark Road. A traffic study will be prepared for the alignments at the intersection of Santa Rosa Road and Moorpark Road. The study will analyze the impacts to the existing traffic lanes and configuration and the modifications needed with the addition of the alignment options. Once through the intersection, it will be necessary to determine the alignment options available to cross the existing County of Ventura drainage channel.

The following efforts are included in this task:

- Preparation of the 30% design plan sheets and traffic study for the path of travel alignment layout for presentation to the MWPRCA Project Manager.
- Meeting with the Staff to discuss their comments and discuss any changes they request.
- Incorporation of the Staff comments in the revised 30% design package.

**Deliverable:** Two (2) sets of the plans (11 x 17 size) will be provided to the MWPRCA for their internal review. One electronic copy of the plan package (.pdf) will be provided.

**Task 103: Opinion of Probable Construction Cost Preparation**

Once the surveying, geotechnical work and the conceptual 30% work is complete, the engineer’s opinion of probable construction cost (OPCC) will be prepared for the proposed improvements.

The following efforts are included in this task:

- Preparation of the OPCC for the improvements.

**Deliverable:** The OPCC will be provided to the MWPRCA for their review. One electronic copy of the project deliverables package (.pdf) will be provided.

**Schedule**

The work associated with Tasks 101 through 103 will be made a top priority. Every effort will be made to keep the project schedule moving along. Review times are anticipated to be one week.

**Fees**

Work associated with Tasks 101 through 103 is estimated to cost \$50,966. A breakdown of the level of effort is listed below:

|           |                    |          |
|-----------|--------------------|----------|
| Task 101: | Topographic Survey | \$13,041 |
| Task 102: | 30% Design Plans   | \$30,030 |
| Task 103: | OPCC Preparation   | \$7,895  |

**ASSUMPTIONS**

- The MWPRCA will be responsible for payment of any and all fees associated with any required permits, inspections, or filings.
- Design, Bid and Construction Phase Services are not included.
- The proposed scope of field exploration services does not include location of underground utilities (other than that provided by USA). Phoenix Civil or subconsultants will not be responsible for damage to any unlocated or mislocated utilities due to incorrect information provided by the utility.
- This proposed scope of work assumes that the subsurface soils and groundwater are free of hazardous substances and specifically excludes the search for, and evaluation of, hazardous materials in soil, water, or air.
- Large scale printing is included in the scope, any additional copies requested by the MWPRCA other than the quantity specified will be billed at cost without mark-up.
- Sub-consultants are marked up by 10%.
- It is assumed that both trail projects in this area will be completed concurrently. The subconsultant fees are based on a single mobilization. The fee will be renegotiated to add a second mobilization fee if the two sites are separated.
- The trail length is assumed to be approximately a mile in length.