



Council Agenda Report

From: Ditas Esperanza, Capital Projects Engineer

Subject: Award of Design Contract for Bid Documents on Surface Improvements to Dry Creek Road from Airport to Jardine

Date: September 19, 2017

Facts

1. In June 2017, the City Council authorized the City Manager to enter into an agreement for the preparation of construction documents for the installation of sewer, water, and reclaimed water pipelines within Dry Creek Road from Airport to the east of the Estrella Warbirds Museum.
2. Once these pipelines are installed, it would be prudent to perform comprehensive road resurfacing and improvements on Dry Creek Road.
3. The proposed improvements are as follows:
 - Perform a study to improve the horizontal alignment of the road (i.e. minimize the roads “zig zags”), east of the Warbird Museum;
 - Provide a road that is wide enough to accommodate two way traffic; and
 - Provide a clean road edge to prevent paving from deteriorating (i.e. a concrete band, flushed with the pavement similar to south Union Road east of South River Road).
4. Wallace Group is currently under contract with the City to evaluate the improvements needed with the update of the City’s Circulation Element, within the Airport Area. Staff requested that they provide a scope of work and fee proposal to assist in improving the horizontal alignment of the road, east of the Warbirds Museum, and improve the intersection at Aerotech Way to accommodate a northbound left turn, from Dry Creek to Aerotech.
5. The project limit for road re-surfacing and improvements, is from Airport Road to Jardine. Please note that this would include portions of the road within San Luis Obispo County’s jurisdiction. Staff has made initial contact with Supervisor John Peschong’s staff representative to inquire if the County would be willing to participate in the Dry Creek Road improvements, by paying for the costs (design, construction, inspection, construction management, etc.), for those portions within their jurisdiction. Thus far, the response from County staff has been positive.
6. Pavement Engineering, Inc. (PEI), will provide bid documents to restore pavement surface once the pipelines have been installed, Airport to the Warbirds Museum (i.e. the straight segment).

Options

1. Take no action;
2. Authorize the City Manager to execute agreements with Wallace Group and Pavement Engineering, Inc., to prepare the design and construction bid documents for the repair and improvement of Dry Creek Road surface from Airport to Jardine, and direct the City Manager to continue to pursue and negotiate with the County of San Luis Obispo to pay for their share of the costs associated with these improvements;
3. Return the item to staff to pursue an alternate course of action.

Analysis and Conclusions

There has been considerable interest by private enterprises in developing and constructing projects in the airport area. These projects necessitate the need for the City to invest and install the infrastructure to support these private enterprises, as well as several existing businesses. In June 2017, the City Council

authorized pipelines to be installed to allow these projects to connect to City sewer (without having to install onsite septic sewer systems), and City water (without having to install wells for potable water). Council also prepared the delivery of recycled water for customer use by authorizing the installation of a recycled water pipeline system. Improving the road surface and alignment of Dry Creek Road would be the final work to attract businesses to invest at the City's airport industrial park, and would address a long-standing section of failed pavement.

Fiscal Impact

The total fee to prepare the construction bid documents are itemized as follows: Wallace Group \$125,000 plus 10% contingency, for a total amount of \$137,500, and for Pavement Engineering, Inc. \$85,600 plus 10% contingency, for a total amount of \$94,160. The funding source will be the General Fund.

Recommendation

1. Approve Resolution 17-xxx to appropriate the funds from the General Fund and authorize the City Manager to execute an agreement with Wallace Group to prepare design, and with Pavement Engineering, Inc. to prepare construction bid documents for the improvements and repairing the surface of Dry Creek Road from Airport to Jardine, in the budget amount of \$94,160 for Pavement Engineering, Inc., and \$137,500 for Wallace Group.
2. Direct the City Manager to continue to pursue and negotiate with the County of San Luis Obispo to pay for their share of the costs associated with these improvements.
3. Authorize the City Manager and City Attorney to make minor changes to the agreement fully consistent with overall Council direction.

Attachments

1. Resolution No. 17-xxx
2. Scope of work and fee proposals: Wallace Group and Pavement Engineering, Inc.

RESOLUTION NO. 17-XXX

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF EL PASO DE ROBLES AUTHORIZING THE CITY MANAGER TO EXECUTE AN AGREEMENT WITH WALLACE GROUP AND PAVEMENT ENGINEERING, INC., TO PREPARE DESIGN AND BID DOCUMENTS FOR ROAD SURFACE REPAIR AND REALIGNMENT TO DRY CREEK ROAD FROM AIRPORT TO JARDINE

WHEREAS, In June 2017, the City Council authorized the City Manager to enter into an agreement for the preparation of construction documents for the installation of sewer, water, and reclaimed water pipelines within Dry Creek Road from Airport to the east of the Estrella Warbirds Museum; and

WHEREAS, Once these pipelines are installed, it would be prudent to perform comprehensive road resurfacing and improvements on Dry Creek Road; and

WHEREAS, The proposed improvements are as follows, perform a study to improve the horizontal alignment of the road (i.e. minimize the roads "zig zags"), east of the Warbird Museum, provide a road that is wide enough to accommodate two way traffic, and provide a clean road edge to prevent paving from deteriorating (i.e. a concrete band, flushed with the pavement similar to south Union Road east of South River Road);

WHEREAS, Wallace Group is currently under contract with the City to evaluate the improvements needed with the update of the City's Circulation Element, within the Airport Area. Staff requested that they provide a scope of work and fee proposal to assist in improving the horizontal alignment of the road, east of the Warbirds Museum, and improve the intersection at Aerotech Way to accommodate a northbound left turn, from Dry Creek to Aerotech; and

WHEREAS, The project limit for road re-surfacing and improvements, is from Airport Road to Jardine. Please note that this would include portions of the road within San Luis Obispo County's jurisdiction. Staff has made initial contact with John Peschong's staff representative to inquire if the County would be willing to participate in the Dry Creek Road improvements, by paying for the costs (design, construction, inspection, construction management, etc.), for those portions within their jurisdiction. Thus far, the response from County staff has been positive; and

WHEREAS, Pavement Engineering, Inc. (PEI), will provide bid documents to restore pavement surface once the pipelines have been installed, Airport to the Warbirds Museum (i.e. the straight segment).

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF EL PASO DE ROBLES DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. All of the above recitals are true and correct and incorporated herein by reference.

Section 2. The City Council hereby authorizes the City Manager to execute agreements with Wallace Group and Pavement Engineering, Inc., to prepare design and bid documents to repair road surface to Dry Creek Road from Airport to Jardine, once the pipelines have been installed.

Section 3. Authorize the City Manager and City Attorney to make minor changes to the agreement fully consistent with overall Council direction.

Section 4. The City Council hereby appropriates from the General Fund the amount of \$231,660 to complete this work

Section 5. This Resolution shall take effect on the date it is approved by the City Council.

APPROVED this ____ day of _____, 20__, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Steven W. Martin, Mayor

ATTEST:

Kristen L. Buxkemper, Deputy City Clerk

August 31, 2017

Ditas Esperanza
City of Paso Robles
1000 Spring Street
Paso Robles, California 93446

Subject: Dry Creek Road Reconstruction

Dear Ms. Esperanza:

We at Wallace Group value our history of supporting the City of Paso Robles (City) and the opportunity to offer our services for a two-phased approach for planning and then designing the Dry Creek Road reconstruction project. The following Scope of Services has been prepared for your consideration and is based on our prior feasibility assessment and recent meeting with you and other City staff:

PROJECT UNDERSTANDING

The City has requested preliminary and final engineering services for reconstruction of Dry Creek Road from just east of the Warbirds Museum to Prairie Road. Wallace Group prepared a planning level layout and estimate for a portion of this project as part of the Development Impact Fee (DIF) Program Update for the City earlier this year using publicly available "off the shelf" aerial photography. The City would like Wallace Group to refine the concept layout on more detailed project specific topographic mapping and Right of Way delineation for internal review and external discussions with property owners. This work is to be undertaken as Phase I of the Scope of Services below. Based on the results of Phase 1, Phase 2 may proceed with final engineering and Plans, Specifications and Estimate (PS&E) for construction of the City approved project. The project is envisioned to take a limited approach to handle drainage by utilizing road side swales and driveway culverts for drainage and will not include a detailed drainage analysis/report. The City will also address post-construction stormwater quality separately and these services are not included as part of this proposal. The City will provide geotechnical and pavement structural section design requirements based on the work from the utility project immediately west of these project limits. We will presume existing lane configurations and capacity are adequate and will not include traffic analysis or intersection control evaluation. The City will prepare environmental documentation if required for the project.

SCOPE OF SERVICES

Phase I: Preliminary Engineering

Task 1.1: Project Management/Meetings

Task 1 includes project management and coordination to ensure the efficient and timely delivery of the scope tasks throughout the project duration. Our scope and associated budget includes up to three (3) meetings for up to two staff members with City staff in Phase I. An initial meeting will be a kickoff meeting to review the proposed standards to be used for the preliminary design and include a designers field review. Two (2) other meetings are included in this task as progress review meetings (described in Task 1.3) to discuss project status and draft documents.

Deliverables:

- Agenda, meeting minutes, and notes for three (3) meetings



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WATER RESOURCES

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Task 1.2: Topographic Survey and Right of Way Delineation

Our surveyors will set survey control points for the aerial mapping and photography by Central Coast Aerial Mapping of the survey limits shown on Figure 1. The mapping will include an approximate 200-foot wide strip centered on Dry Creek Road and completed at a 1-foot contour interval at a 1" = 40' mapping scale. The mapping will show such visible features as edges of pavements, dirt road, utility poles and structures, manholes, buildings and brush and vegetation lines. The aerial mapping will also include a CAD digital terrain model representative of the 1-foot contours.

Supplemental ground survey within the area shown in Figure 1 will include the location of above ground utility structures and additional information or accuracy for a variety of features. This includes visible surface improvements such as culverts, fences, driveways, roadway signs, and utilities such as street lights, utility poles and vaults, fire hydrants, utility maintenance holes, valves, storm and sewer structures and spot elevations supplementing the aerial topographic mapping. Known underground utilities will be plotted based on a combination of field measurements and record mapping and atlases for utilities within the project limits. Trees greater than 4 inches in diameter measured at four feet above ground and within the mapping limits shall be located with their trunk size and drip lines depicted. The limit of the supplemental survey will be from right of way fence to right of way fence or approximately 20 beyond the edge of pavement. We are assuming that private landowner improvements such as landscaping that are adjacent to the road will not need to be located in detail as part of the survey.

We will also collect cross section measurements of the roadway at the westerly conform near the War Birds Museum and between 100 feet westerly of Aerotech Center Way to 100 feet easterly of Prairie Road at an approximate interval of every fifty feet. Within one hundred feet of the proposed conform locations, intersections and driveway locations the cross-section interval will be approximately twenty-five feet. Spot elevations will be shown at the cross-section locations with hard surface measurements shown to the nearest 0.01 feet. The road cross section mapping will be provided between fence lines or record roadway right-of-way if fence lines are not present.

We anticipate locating sufficient monuments to re-establish the record Right of Way of Dry Creek Road, the side street Right of Ways, and property line sidelines within the mapping limits. We understand that the City intends to provide title reports for any needed detailed assessments and that we will provide all Assessor Parcel Numbers (APN) required as part of the mapping. Wallace Group will plot the easement exceptions listed therein that are within the mapping limits. We assume that no more than one (1) easement per title report will require plotting and that the easements will be plottable based on the record Right of Way information re-established.



The aerial topographic mapping together with the supplemental mapping, Right of Way and easement delineation included in this task will be compiled to form the survey base map used as the basis of preliminary design and engineering. Additional survey field work to densify specific areas of conform or other needs may be incorporated in a final design phase if the project moves forward beyond this preliminary phase.

Deliverables:

- Signed and Sealed 22" x 34" Survey Base Map
- Civil 3D 2017 Survey Base Map

Task 1.3: Preliminary Engineering and Layouts

Using the City directed design speed and cross section (2-12' lanes and 1' concrete band), our staff will develop a Draft preliminary plan showing a single proposed alignment for the designated speed criteria with impacts to properties and existing improvements. The preliminary plan will show approximate limits of grading based on closely matching the existing profile of the road centerline with preliminary consideration of anticipated drainage handling improvements. Wallace Group will submit the draft layout plans to the City for review and comment.

As listed in Task 1.1, Wallace Group will meet with the City to address City comments and resubmit the preferred plan for use by City staff in discussions with property owners.

As listed in Task 1.1, Wallace Group will then again meet with City staff to review further comments resulting from those stakeholder meetings and provide one additional layout revision to reasonably address comments provided by property owners. Wallace Group will submit the revised plan for final approval by the City. A total of two (2) rounds of comments will be addressed by Wallace Group during this work task.

Deliverables:

- Draft Preliminary Layout Plan, 22" x 34" plan sheets (1" =40')
- Final Preliminary Layout Plan, 22" x 34" plan sheets (1" =40')



Task 1.4: Preliminary Construction Cost Estimates

Wallace Group will prepare a preliminary opinion of probable construction cost (not including ROW costs) for the Draft exhibits and the final plans as outlined in Task 1.3. The cost will be based on estimated construction quantities and an appropriate contingency for the level of planning/design. The cost estimates are intended to be for planning purposes only. We will use Caltrans contract cost data and/or local bid result information for similar work.

Deliverables:

- Preliminary Construction Cost Estimates

PHASE 2: FINAL ENGINEERING (PLANS, SPECIFICATIONS AND ESTIMATES)

Task 2.1: Project Management/Meetings

This task includes project management and coordination to ensure the efficient and timely delivery of the scope tasks throughout the project duration. Our scope and associated budget includes up to four (4) meetings with the City for up to two Wallace Group staff members. These meetings are assumed to be review meetings to discuss project status and draft documents with City staff.

Deliverables:

- Agenda, meeting attendance and notes for up to four (4) meetings

Task 2.2: Supplemental Topographic Survey

We have included one additional day of field survey and office mapping to support the Phase 2 Final Engineering. The field work will be completed at the direction of the project engineering designers in an effort to make remaining field measurements that will support the completion of the design.

Deliverables:

- Signed and Sealed 22" x 34" Updated Survey Base Map
- Updated Civil 3D 2017 Survey Base Map

Task 2.3: 65% Draft Plans, Specifications and Estimates

Wallace Group will prepare 65% draft construction Plans for the project based on the results and conclusions drawn from Phase I. The plans will assume potential partial realignment of Dry Creek Road between the War Birds Museum and Aerotech Center Way and only minor widening/modifications between Aerotech Center Way and Prairie Road as well as necessary tie-ins to driveways and side streets.

Drainage improvements are assumed to consist of roadside swales, potential reconstruction of cross drainage and minor culverts at driveways. One (1) large culvert crossing and four (4) minor culverts have been identified east of the War Birds Museum and those culverts will be reconstructed in-kind based on the new alignment through that stretch of road. Drainage improvements will utilize City standard plans or Caltrans standard plans as appropriate. Hydraulic calculations will be provided for the existing culverts that will remain or that will be replaced as part of the roadway improvements. There are approximately five existing culverts along Dry Creek Road within the proposed project limits. At these five culvert locations, we anticipate assessing contributory areas



and hydrologic calculations to estimate stormwater peak flows. Culverts will be sized per City of Paso Robles design criteria, as appropriate. We do not anticipate the need for flood control facilities or permitting through regulatory agencies such as the Army Corps, Regional Board, or Fish and Wildlife for the culvert crossings and stormwater discharge from the roadway.

It is assumed that the proposed road will not be landscaped and that graded areas will be hydroseeded. Wallace Group will specify a hydroseed mix for the project. This scope of services does not include structural design elements such as bridges, walls or custom drainage structures. Traffic handling/stage construction plans will be handled using standard traffic control plans (such as T sheets from Caltrans standard plans). Detailed detour plans or traffic mitigations are not included in this scope of services.

It is estimated that the construction plans may include the following plan sheets:

Description	# of sheets
Title Sheet	1
General Notes	1
Survey Project Control	1
Typical Cross Sections	1
Plan and Profile	3
Construction Details	3
Erosion Control Plan & Details	2
Pavement Delineation and Signage	2
Traffic Handling/Stage Construction	2
Total Estimated Sheets:	16

Wallace Group will prepare project technical specifications based on 2010 Caltrans Standards. The technical specifications will utilize Caltrans Standard Special provisions (SSP's) to be inserted into City prepared boilerplate front end contract documents. SSP's will be prepared using Caltrans standard procedures (strike/hide) and expanded for any specialty items, as appropriate.

Wallace Group will prepare an engineer's opinion of probable construction costs for the improvements. We will perform quantity takeoffs and assign unit prices based recent Caltrans cost data or publicly available bid data for similar scope/size projects. Right of way agreements will be provided by the City if needed.

Deliverables:

- 65% Draft Plans, Specifications and Estimates for City review

Task 2.4: 100% Plans, Specifications and Estimates

Wallace Group will address City comments on the 90% draft PS&E package submitted in Task 2.5 and prepare 100% Draft PS&E for submittal to the City. Final construction details will be incorporated into the plans. The specifications and standard special provisions will be edited and finalized for the Project. Quantity calculations will be updated to prepare a 100% level engineer's opinion of probable construction costs.

Deliverables:

- 100% Draft Plans, Specifications and Estimates for City backcheck and approval
- Comment resolution matrix



Task 2.5 Legal Descriptions and Exhibits

Once design is established acquisition maps will be prepared as 11" x 17" aerial exhibits detailing the temporary and permanent easement needs by parcel for the City's review and use with property owners. The acquisition maps are to be drawn at a scale sufficient to clearly show pertinent information including existing and proposed right of way, existing and proposed center lines, existing property lines, survey monuments, assessor's parcel information, proposed temporary and permanent right of way acquisitions, proposed right of way transfers, and the gross parcel area and acquisition parcel area. Existing easements and features will be clearly marked and identified.

After use by the City with the private land owners, we will prepare legal descriptions and exhibit maps for the required right of way acquisitions, transfers, temporary construction easements, drainage easements, and other required easements. The legal descriptions and exhibit maps will be submitted to the City for review and approval. This will include a map checking package that will contain copies of reference record maps and documents and map check closure calculations. For budgeting purposes, we have assumed that five (5) of the adjoining private properties will require one permanent easement. We assume that temporary construction or right of entry easements will be handled by the City with right to enter and construct agreements and no legal description or exhibits will be prepared by Wallace Group.

Deliverables:

- Permanent Easement Exhibits (11" x 17" aerial, 1 per parcel, 5 assumed)
- Acquisition Maps (one set)
- Legal descriptions and plats (8 ½" x 11", 5 assumed)

SCHEDULE (Phase 1 Only, Phase 2 to be defined after Phase 1 complete)

Wallace Group estimates the following the following schedule for Phase 1 after receiving a signed contract:

Aerial and Right of Way Mapping	8 - 10 weeks (see note 1)
Draft Preliminary Plan	4 - 5 weeks
City Review	3 weeks
Revised Preliminary Plan	2 - 3 weeks
City/Property Owners Review	2-4 weeks (see note 2)
<u>Final Preliminary Plan</u>	<u>2-4 weeks (see note 2)</u>

Notes:

1. Dependent on flight schedule and PTR delivery
2. May vary dependent on external factors or level of comments

A schedule for Phase 2 is to be prepared in coordination with the City at the conclusion of Phase 1.

ITEMS NOT INCLUDED IN SCOPE OF SERVICES

The following services are not included in this Scope of Services or estimate of fees:

- Structural Design/Calculations/Plans
- Signal Design/Plans
- Traffic Studies
- Traffic Index Calculations
- Other items not specifically detail in the scope of services above



PROJECT FEES

The project fees are shown in Exhibit A and are allocated by task to indicate our expected distribution of work. However, the task fee allocations are not individual contract limits. Wallace Group will perform the services denoted in the proposed Scope of Services in accordance with the attached Standard Billing Rates (Exhibit B).

Phase 1 services include aerial mapping and field surveys as well as initial concept analysis and layouts and are estimated at forty-six thousand six hundred dollars (\$46,600). Phase 2 services include the final design and legal descriptions as described and are estimated at seventy-eight thousand four hundred dollars (\$78,400). These services will be invoiced monthly on an accrued cost basis, and our total fees, including reimbursables will not exceed our estimated fee of one hundred and twenty-five thousand dollars (\$125,000) without receiving written authorization from the City Project Manager.

If requested, additional services to the Scope of Services may be performed by Wallace Group following the signature of our Contract Amendment or the initiation of a new contract.

We thank you for the opportunity to present our proposal for preliminary engineering and land surveying services. If you would like to discuss this proposal in greater detail, please feel free to contact me.

Sincerely,

WALLACE GROUP, a California Corporation

A handwritten signature in blue ink that reads "Jorge Aguilar".

Jorge Aguilar, PE C48704
Principal
612 Clarion Court
San Luis Obispo
California 93401
T 805 544-4011
F 805 544-4294
www.wallacegroup.us

Attachments
hw: PP17-6149, 2017, std
Exhibit A
Exhibit B

THIS PROPOSAL IS VALID FOR 60 DAYS FROM THE DATE OF THIS DOCUMENT.



Engineering, Design & Support Services:

Assistant Designer/Technician	\$ 70
Designer/Technician I - IV	\$ 75 - \$105
Senior Designer I - III	\$138 - \$148
GIS Technical Specialist	\$130
Senior GIS Technical Specialist	\$145
Associate Engineer I - II	\$ 95 - \$105
Engineer I - IV	\$140 - \$155
Senior Engineer I - III	\$160 - \$170
Director	\$175
Principal Engineer	\$190
Principal	\$195

Surveying Services:

Prevailing Wage*

Associate Survey Technician	\$ 85	
One-Person Survey Crew	\$160	\$190
Two-Person Survey Crew	\$195	\$280
Three-Person Survey Crew	\$272	\$370
Survey Technician I - IV	\$115 - \$139	
Land Surveyor I - III	\$145 - \$155	
Senior Land Surveyor I - III	\$160 - \$170	
Director	\$175	

Support Services:

Office Assistant	\$ 60
Project Assistant I - III	\$ 75 - \$ 85

Additional Professional Services:

Fees for expert witness preparation, testimony, court appearances, or depositions will be billed at the rate of \$300 an hour. As authorized in advance by the Client, overtime on a project will be billed at 1.5 times the employee's typical hourly rate.

Direct Expenses:

Direct expenses will be invoiced to the client and a handling charge of 15% may be added. Sample direct expenses include, but are not limited to the following:

- travel expenses
- delivery/copy services
- sub-consultant services
- mileage (per IRS rates)
- agency fees
- other direct expenses

Invoicing and Interest Charges:

Invoices are submitted monthly on an accrued cost basis in accordance with this Fee Schedule. A finance charge of 1.5% per month may be assessed on all balances that are thirty days past due.

Right to Revisions:

Wallace Group reserves the right to revise this Schedule of Fees on an annual basis, personnel classifications may be added as necessary.

***Prevailing Wage:**

State established prevailing wage rates may apply to some services and those rates are subject to change.



August 28, 2017

MP17-445

Ditas Esperanza
 City of Paso Robles
 1000 Spring Street
 Paso Robles, CA 93446

Subject: Request for Proposal for the Preparation of Contract Documents for Dry Creek Road from Airport Road to Jardine Road.

Dear Ditas:

We are looking forward to developing plans, specifications and bid estimates for the Dry Creek Road project. We value our relationship with the City of Paso Robles and appreciate your continued confidence in our services.

BACKGROUND

The City is working on installing a series of water, sewer, and recycled water pipelines on Dry Creek Road. The pipelines project is anticipated to be completed by early Spring of 2018. Upon completion of the pipelines project the City would like to immediately re-pave Dry Creek Road from Airport Road to Jardine Road. As part of the work, the City would like to widen the road to 26 feet. The City also requests that 8-inch wide concrete bands be installed flushed along the edge of the pavement.

DESCRIPTION OF SERVICES

The City of Paso Robles would like Pavement Engineering Inc. (PEI) to assist them with the Dry Creek Road project. PEI identifies four tasks to complete the project contract documents and assist with the bidding process. Below is a summary of each task:

Task 1 – Perform Deflection Testing and Coring for Pavement Design

The field testing portion of our work consists of deflection testing and coring the pavement to determine the asphalt layer thickness. Deflection tests will be performed at 100 foot maximum intervals in each lane (minimum of 10 tests per street). Coring will be performed at 500 foot maximum intervals over the street segment (minimum of 2 cores per segment). The deflection analysis will be performed in general accordance with CTM 356. PEI will work with the City of Paso Robles to determine the traffic index of the street. Traffic control will be provided by a professional traffic control company.

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To assist us with the evaluation, we will measure the full structural section (AC & AB) at each core location. We will also collect native soil samples that will be used to determine the R-value. Native soil samples will be collected at 1,000 foot intervals over the street segment.

PEI will use this information to determine the most cost effective rehabilitation approach. Rehabilitation options include HMA and RHMA overlays, Mill and Fill as well as recycling options including FDR and CIR.

Assessing the pavement eliminates guesswork and ensures that we identify the correct repair. In addition, PEI has found that adequate deflection tests and cores are invaluable during both the design and construction phases of the project. Our experience suggests this data helps identify potential problems and minimize construction conflicts, resulting in additional savings to the City.

Task 2: Topographic Survey and Measurement of Field Quantities

PEI will use existing survey data from the pipelines project which extends approximately 6,400 linear feet east of Airport Road. PEI will survey the remaining portion of the project street, which is approximately 4,900 linear feet, to obtain topographic information that will be used for design and record all pertinent field quantities. Due to the nature of the existing roadway features and proposed treatments, topographic information will be essential to address cross-slopes, centerline alignment and the drainage concerns identified in the proposal and observed in the field. PEI will take cross sections at 50 foot intervals between the fence lines.

Topography shall contain sufficient detail to accommodate roadway profile adjustments, roadway edge drainage improvements, and identify all potentially impacted vegetation, utilities and adjacent property improvements, and driveway approaches adjacent to Dry Creek Road. Topography for minor drainage improvements shall be included where it is anticipated that more extensive engineering drainage design will be required. The topography shall include specific areas for design of drainage improvements at the following identified culvert locations:

1. *Dry Creek Road – Cloud Way Intersection.*
2. *Dry Creek Road – Cirrus Way Intersection.*

All field quantities of physical elements to be incorporated in the work of the street will be recorded through surveying. This information includes the location of existing striping, pavement markers and paint markings, utility covers and the total area of pavement to be rehabilitated.

We anticipate that there are no ADA improvements needed on this street segment. PEI fees are based on existing survey data. If the survey data is determined to be insufficient for roadway design purposes, PEI will need to perform the additional survey work. PEI



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will work with the City to determine how much additional survey work needs to be performed.

Task 3: Preparation of Contract Documents and Estimate

PEI will compile all field quantities into an engineer's estimate and will provide a summary spreadsheet of the entire project. Using these quantities, along with the pavement evaluation data, PEI will meet with City staff to determine the most cost-effective rehabilitation approach for Dry Creek Road. This meeting will be considered the 65% submittal.

We will draft technical specifications and details for typical sections, transitions, conforms, digouts and prepare additional pavement work. PEI will submit any portion of the maintenance work that requires further clarification in the form of drafted plan views, details, elevations or cross sections as necessary. Where it facilitates the design, PEI will use aerial photographs to develop base sheets. This information will be submitted to the City at the 90% design review.

After reviewing the 90% submittal, we will meet with City staff to resolve any outstanding issues and will adjust the contract documents accordingly. A final 100% submittal will follow.

Our fees are based on using the existing striping pattern. Changes to the striping plan may result in additional fees.

PEI will provide one hard copy and one electronic copy of the final contract documents (100% complete) to the City for its use for each set of contract documents developed. In addition, PEI will provide electronic files of any "work in progress" items at any time during the project at the City's request.

Task 4: Bidding Process Support Services

After the final submittal, we will be available to answer any specific questions from the City concerning the design. Should it be required, PEI will prepare addenda. We will also be available for help with questions from the contract administration personnel or from contractors during the bidding process.



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PROPOSAL FEE AND FEE BREAKDOWN

PEI's fee for this portion of the work is based on our experience with similar projects performed for the City and throughout the state. Our fee for the design work is \$85,600 and is based on a project with a construction budget of approximately \$1.9M.

The enclosed fee breakdown shows our projected costs for each portion of the project. The individual fees associated with each task will serve as guidelines for progress payments.

PROPOSED WORK SCHEDULE

For the contract document scope of work, we estimate that we can deliver the 65% submittal to the City within four weeks after receiving WSC's survey data and a notice to proceed. The 90% submittal to the City within four weeks after the 65% submittal. The 100% submittal will be returned to the City within two weeks of receiving the City's 90% review comments. PEI will provide a project schedule at the kick-off meeting.

It's always a privilege working with you, Ditas. Our commitment to you and the City of Paso Robles is to deliver long-lasting, economical pavement projects with the superior customer service and efficiency you expect. Please feel free to contact me at (805) 781-2265 with any questions you may have concerning this proposal.

Very truly yours,
PAVEMENT ENGINEERING INC.



Joseph L. Ririe, P.E.
Senior Principal Engineer

Enclosures: Project Street List
Fee Schedule
Proposal Conditions

pc: C File / M File / MP File / S/R/



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**CITY OF PASO ROBLES
 FEE SCHEDULE
 2017 LIGHT REHABILITATION PROJECT**

TASK 1 – PERFORM DEFLECTION TESTING AND CORING FOR PAVEMENT DESIGN			
Job Function / Classification	Rate	Hours	Total
Senior Principal Engineer	\$ 225	6	\$1,350
Assistant Engineer	155	3	465
Senior Engineering Technician	135	1	135
Clerical	55	1	55
Dynalect Operator	275	4	1,100
Assistant Dynalect Operator	140	4	560
Coring Technician	225	8	1,800
Assistant Coring Technician	125	8	1,000
Lab Manager – R-Value (ASTM D2844, CTM 301)	145	6	870
Lab Technician – R-Value (ASTM D2844, CTM 301)	90	33	2,970
Dynalect & Coring Prep	135	4	540
Traffic Control			4,000
Mobilization			3,750
Estimated Fee Task 1			\$18,595
TASK 2 – TOPOGRAPHIC SURVEY AND MEASUREMENT OF FIELD QUANTITIES			
Job Function / Classification	Rate	Hours	Total
Assistant Engineer	\$ 155	40	\$6,200
Senior Engineering Technician	135	40	5,400
Drafting Engineering Technician	135	40	5,400
Estimated Fee Task 2			\$17,000
TASK 3 – PREPARATION OF CONTRACT DOCUMENTS AND ESTIMATE			
Job Function / Classification	Rate	Hours	Total
Senior Principal Engineer	\$ 225	15	\$1,800
Associate Engineer	160	58	6,400
Assistant Engineer	155	90	6,200
Senior Engineering Technician	135	90	8,100
Engineering Technician	125	90	4,500
Estimated Fee Task 3			\$50,005
TASK 4 – BIDDING PROCESS SUPPORT SERVICES			
Included in Task 3			
TOTAL ESTIMATED PROJECT FEE			\$85,600



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PROPOSAL CONDITIONS

1. Proposal is valid for thirty days from the date of the proposal.
2. All work shall be performed utilizing common methods and practices of the civil engineering profession. Reports and construction documents will be signed by a registered civil engineer.
3. Fees for Lump Sum or Unit Price Proposals will be charged at the quoted price. The quoted prices include all laboratory testing costs. Fees for Engineering and Technical Services on a Time and Materials Basis will be charged at the applicable hourly rates of the current PEI Fee Schedule.
4. The proposal is based upon providing insurance with limits as defined in the referenced RFP.
5. One copy of an Engineering Report or Plans and Specifications will be provided to the Owner of a project. Additional copies are \$35 each.
6. Payment: Invoices will be submitted at the completion of the work for Engineering Reports. Inspection fees will be invoiced on a monthly basis. All invoices are due upon receipt. Interest of 1-1/2% per month (but not exceeding the maximum rate allowable by law) will be payable on any amounts not paid within 30 days, payment thereafter to be applied first to accrued interest and then to the principal unpaid amount. Attorneys' fees or other costs incurred in collecting any delinquent amount shall be paid by the client.

