CITY OF PORTLAND
AGREEMENT FOR PROFESSIONAL, TECHNICAL, OR EXPERT SERVICES

CONTRACT NUMBER 30006006

TITLE OF WORK PROJECT
Sullivan's Crossing Bicycle and Pedestrian Bridge

This Contract is between the City of Portland ("City," or "Bureau") and KPFF Consulting Engineers, Inc., hereafter called Consultant. The City's Project Manager for this Contract is Dan Layden.

Effective Date and Duration
This Contract shall become effective on August 23, 2017. This Contract shall expire, unless otherwise terminated or extended, on December 31, 2020.

Consideration
(a) City agrees to pay Consultant a sum not to exceed $2,315,359.00 for accomplishment of the work.
(b) Interim payments shall be made to Consultant according to the schedule identified in the STATEMENT OF THE WORK AND PAYMENT SCHEDULE.

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CONSULTANT DATA AND CERTIFICATION

Name (print full legal name): KPFF Consulting Engineers, Inc.

Address: 111 SW 5th Ave, Suite 2500, Portland, OR 97204

Employer Identification Number (EIN): 91-0755897
[INDEPENDENT CONSULTANTS: DO NOT PROVIDE SOCIAL SECURITY NUMBER (SSN) – LEAVE BLANK IF NO EIN]

City of Portland Business Tax Registration Number: 141462

Citizenship: Nonresident alien ☐ Yes ☒ No

Business Designation (check one): ☐ Individual ☐ Sole Proprietorship ☐ Partnership ☒ Corporation

☐ Limited Liability Co (LLC) ☐ Estate/Trust ☐ Public Service Corp. ☐ Government/Nonprofit

Payment information will be reported to the IRS under the name and taxpayer I.D. number provided above. Information must be provided prior to Contract approval.

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TERMS AND CONDITIONS

1. Standard of Care
Consultant shall perform all services under this Contract using that care, skill, and diligence that would ordinarily be used by similar professionals in this community in similar circumstances.

2. Effect of Expiration
Passage of the Contract expiration date shall not extinguish, prejudice, or limit either party's right to enforce this Contract with respect to any default or defect in performance that has not been corrected.

3. Order of Precedence
This Contract consists of these Terms and Conditions, the Statement of Work and Payment Schedule, and any exhibits that are attached. Any apparent or alleged conflict between these items will be resolved by using the following order of precedence:
a) these Terms and Conditions; b) Statement of Work and Payment Schedule; and c) any exhibits attached to the Contract.

4. Early Termination of Contract
(a) The City may terminate this Contract for convenience at any time for any reason deemed appropriate in its sole discretion. Termination is effective immediately upon notice of termination given by the City.
(b) Either party may terminate this Contract in the event of a material breach by the other party that is not cured. Before termination is permitted, the party seeking termination shall give the other party written notice of the breach, its intent to terminate, and fifteen (15) calendar days to cure the breach. If the breach is not cured within 15 calendar days, the party seeking termination may terminate immediately by giving written notice that the Contract is terminated.

5. Remedies and Payment on Early Termination

(a) If the City terminates pursuant to 4(a) above, the City shall pay the Consultant for work performed in accordance with the Contract prior to the termination date. No other costs or loss of anticipated profits shall be paid.

(b) If the City terminates pursuant to 4(b) above, the City is entitled all remedies available at law or equity. In addition, Consultant shall pay the City all damages, costs, and sums incurred by the City as a result of the breach.

(c) If the Consultant justifiably terminates the Contract pursuant to subsection 4(b), the Consultant's only remedy is payment for work prior to the termination. No other costs or loss of anticipated profits shall be paid.

(d) If the City's termination under Section 4(b) was wrongful, the termination shall be automatically converted to one for convenience and the Consultant shall be paid as if the Contract was terminated under Section 4(a).

(e) In the event of early termination the Consultant's work product before the date of termination becomes property of the City.

6. Assignment

Consultant shall not subContract, assign, or transfer any of the work scheduled under this agreement, without the prior written consent of the City. Notwithstanding City approval of a subconsultant, the Consultant shall remain obligated for full performance hereunder, and the City shall incur no obligation other than its obligations to the Consultant hereunder. The Consultant agrees that if subconsultants are employed in the performance of this Agreement, the Consultant and its subconsultants are subject to the requirements and sanctions of ORS Chapter 656, Workers' Compensation.

7. Compliance with Applicable Law

Consultant shall comply with all applicable federal, state, and local laws and regulations. Consultant agrees it currently is in compliance with all tax laws. Consultant shall comply with Title VI of the Civil Rights Act of 1964 and its corresponding regulations. In connection with its activities under this Contract, the Consultant shall comply with all applicable Grant Terms and conditions. This includes all terms and conditions contained in this Contract and, for a Contract involving a grant, the Grant Terms and Conditions.

8. Indemnification for Property Damage and Personal Injury

Consultant shall indemnify, defend, and hold harmless the City, its officers, agents, and employees, from all claims, losses, damages, and costs (including reasonable attorney fees) for personal injury and property damage arising out of the intentional or negligent acts or omissions of the Consultant, its Subconsultants, suppliers, employees or agents in the performance of its services. Nothing in this paragraph requires the Consultant or its insurer to indemnify the City for claims of personal injury or property damage caused by the negligence of the City. This duty shall survive the expiration or termination of this Contract.

9. Insurance

Consultant shall obtain and maintain in full force at Consultant expense, throughout the duration of the Contract and any warranty or extension periods, the required insurance identified below. The City reserves the right to require additional insurance coverage as required by statutory or legal changes to the maximum liability that may be imposed on Oregon cities during the term of the Contract.

(a) Workers' compensation insurance as required by ORS Chapter 656 and as it may be amended. Unless exempt under ORS Chapter 656, the Consultant and all subconsultants shall maintain coverage for all subject workers.

☒ Required and attached // ☐ Proof of exemption (i.e., completion of Workers' Compensation Insurance Statement)

(b) General commercial liability (CGL) insurance covering bodily injury, personal injury, property damage, including coverage for independent consultant's protection (required if any work will be subContracted), premises/operations, Contractual liability, products and completed operations, in per occurrence limit of not less than $1,000,000, and aggregate limit of not less than $2,000,000.

☒ Required and attached // ☐ Waived by Bureau Director or designee // ☐ Reduce by Bureau Director or designee

(c) Automobile liability insurance with coverage of not less than $1,000,000 each accident, and an umbrella or excess liability coverage of $2,000,000. The insurance shall include coverage for any auto or all owned, scheduled, hired and non-owned auto. This coverage may be combined with the commercial general liability insurance policy.

☒ Required and attached // ☐ Waived by Bureau Director or designee // ☐ Reduce by Bureau Director or designee

(d) Professional Liability and/or Errors & Omissions insurance to cover damages caused by negligent acts, errors or omissions related to the professional services, and performance of duties and responsibilities of the Consultant under this Contract in an amount with a combined single limit of not less than $1,000,000 per occurrence and aggregate of $3,000,000 for all claims per occurrence. In lieu of an occurrence based policy, Consultant may have claims-made policy in an amount not less than $1,000,000 per claim and $3,000,000 annual aggregate, if the Consultant obtains an extended reporting period or tail coverage for not less than three (3) years following the termination or expiration of the Contract.

☒ Required and attached // ☐ Waived by Bureau Director or designee // ☐ Reduce by Bureau Director or designee

Continuous Coverage; Notice of Cancellation: The Consultant agrees to maintain continuous, uninterrupted coverage for the duration of the Contract. There shall be no termination, cancellation, material change, potential exhaustion of aggregate limits or

non-renewal of coverage without thirty (30) calendar days written notice from Consultant to the City. If the insurance is canceled or terminated prior to completion of the Contract, Consultant shall immediately notify the City and provide a new policy with the same terms. Any failure to comply with this clause shall constitute a material breach of Contract and shall be grounds for immediate termination of this Contract.

Additional Insured: The liability insurance coverages, except Professional Liability, Errors and Omissions, or Workers' Compensation, shall be without prejudice to coverage otherwise existing, and shall name the City of Portland and its bureaus/divisions, officers, agents and employees as Additional Insureds, with respect to the Consultant's activities to be performed, or products or services to be provided. Coverage shall be primary and non-contributory with any other insurance and self-insurance. Notwithstanding the naming of additional insureds, the insurance shall protect each additional insured in the same manner as though a separate policy had been issued to each, but nothing herein shall operate to increase the insurer's liability as set forth elsewhere in the policy beyond the amount or amounts for which the insurer would have been liable if only one person or interest had been named as insured.

Certificate(s) of Insurance: Consultant shall provide proof of insurance through acceptable certificate(s) of insurance, including additional insured endorsement form(s) and all other relevant endorsements, to the City prior to the award of the Contract if required by the procurement documents (e.g., request for proposal), or at execution of Contract and prior to any commencement of work or delivery of goods or services under the Contract. The Certificate(s) will specify all of the parties who are endorsed on the policy as Additional Insureds (or Loss Payees). Insurance coverages required under this Contract shall be obtained from insurance companies acceptable to the City of Portland. The Consultant shall pay for all deductibles and premium. The City reserves the right to require, at any time, complete, certified copies of required insurance policies, including endorsements evidencing the coverage the required.

Subconsultant(s): Consultant shall provide evidence that any subconsultant, if any, performing work or providing goods or service under the Contract has the same types and amounts of coverages as required herein or that the subconsultant is included under Consultant's policy.

10. Ownership of Work Product
All work product produced by the Consultant under this Contract is the exclusive property of the City. "Work Product" includes, but is not limited to: research, reports, computer programs, manuals, drawings, recordings, photographs, artwork and any data or information in any form. The Consultant and the City intend that such Work Product shall be deemed "work made for hire" of which the City shall be deemed the author. If for any reason a Work Product is deemed not to be a "work made for hire," the Consultant hereby irrevocably assigns and transfers to the City all right, title and interest in such work product, whether arising from copyright, patent, trademark, trade secret, or any other state or federal intellectual property law or doctrines. Consultant shall obtain such interests and execute all documents necessary to fully vest such rights in the City. Consultant waives all rights relating to work product, including any rights arising under 17 USC 106A, or any other rights of authorship, identification or approval, restriction or limitation on use or subsequent modifications. If the Consultant is an architect, the Work Product is the property of the Consultant-Architect, and by execution of this Contract, the Consultant-Architect grants the City an exclusive and irrevocable license to use that Work Product.

Notwithstanding the above, all pre-existing trademarks, services marks, patents, copyrights, trade secrets, and other proprietary rights of Consultant are and will remain the exclusive property of Consultant.

11. EEO Certification
The Consultant must be certified prior to Contract execution, as Equal Employment Opportunity Affirmative Action Employers as prescribed by Chapter 5.33.076 of the Code of the City of Portland.

12. Equal Benefits
Consultant must certify prior to Contract execution, that they provide benefits to their employees with spouses as prescribed by Chapter 5.33.077 of the Code of the City of Portland.

13. Successors in Interest
The provisions of this Contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective successors and approved assigns.

14. Severability
The parties agree that if any term or provision of this Contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular term or provision held to be invalid.

15. Waiver
The failure of the City to enforce any provision of this Contract shall not constitute a waiver by the City of that or any other provision.

16. Errors
The Consultant shall promptly perform such additional services as may be necessary to correct errors in the services required by this Contract without undue delays and without additional cost.

17. Governing Law/Venue
The provisions of this Contract shall be interpreted, construed and enforced in accordance with, and governed by, the laws of the State of Oregon without reference to its conflict of laws provisions that might otherwise require the application of the law of any other jurisdiction. Any action or suits involving any question arising under this Contract must be brought in the appropriate court in Multnomah County Oregon.

18. Amendments
All changes to this Contract, including changes to the scope of work and Contract amount, must be made by written amendment and approved by the Chief Procurement Officer to be valid. Any amendment that increases the original Contract amount by more than 25% must be approved by the City Council to be valid.

19. Business Tax Registration
The Consultant shall obtain a City of Portland business tax registration number as required by PCC 7.02 prior to beginning work under this Contract.

20. Prohibited Conduct
The Consultant shall not hire any City employee who evaluated the proposals or authorized the award of this Contract for two years after the date the Contract was authorized without the express written permission of the City and provided the hiring is permitted by state law.

21. Payment to Vendors and Subconsultants
The Consultant shall timely pay all subconsultants and suppliers providing services or goods for this Contract.

22. Access to Records
The Consultant shall maintain all records relating to this Contract for three (3) years after final payment. The City may examine, audit and copy the Consultant's books, documents, papers, and records relating to this Contract at any time during this period upon reasonable notice. Copies of these records shall be made available upon request. Payment for the reasonable cost of requested copies shall be made by the City.

23. Audits
(a) The City may conduct financial and performance audits of the billings and services specified in this Contract at any time in the course of the Contract and during the three (3) year period established by paragraph 22. Audits will be conducted in accordance with generally accepted auditing standards as promulgated in Government Auditing Standards by the Comptroller General of the United States Government Accountability Office.
(b) If an audit discloses that payments to the Consultant exceed the amount to which the Consultant was entitled, the Consultant shall repay the amount of the excess to the City.

24. Electronic Signatures
The City and Consultant may conduct this transaction, including any Contract amendments, by electronic means, including the use of electronic signatures.

25. Merger Clause
This Contract encompasses the entire agreement of the parties, and supersedes all previous understandings and agreements between the parties, whether verbal or written.

26. Dispute Resolution/Work Regardless of Disputes
The parties shall participate in mediation to resolve disputes before conducting litigation. The mediation shall occur at a reasonable time after the conclusion of the Contract with a mediator jointly selected by the parties. Notwithstanding any dispute under this Contract, the Consultant shall continue to perform its work pending resolution of a dispute, and the City shall make payments as required by the Contract for undisputed portions of the work. In the event of litigation no attorney fees are recoverable. No different dispute resolution paragraph(s) in this Contract or any attachment hereto shall supersede or take precedence over this provision.

27. Progress Reports:
If applicable, the Consultant shall provide monthly progress reports to the Project Manager as described in the Statement of the Work and Payment Schedule.

28. Consultant's Personnel:
If applicable, the Consultant shall assign the personnel listed in the Statement of the Work and Payment Schedule for the work required by the Contract and shall not change personnel without the prior written consent of the City, which shall not be unreasonably withheld.

29. Subconsultants
The Consultant shall use the subconsultants identified in its proposals. The Consultant t shall not change subconsultant's assignments without the prior written consent of the Chief Procurement Officer. The City will enforce all social equity Contracting and Disadvantaged, Minority, Women and Emerging Small Business (D/M/W/ESB) subContracting commitments submitted by the Consultant in its proposals. Failure to use the identified D/M/W/ESB subconsultants without prior written consent is a material breach of Contract.

For Contracts valued $50,000 or more, the Consultant shall submit a Monthly Subconsultant Payment and Utilization Report (MUR), made part of this Contract by reference, reporting ALL subconsultants employed in the performance of this agreement. An electronic copy of the MUR may be obtained by contacting the PTE Contract Compliance Specialist.

30. Third Party Beneficiaries
There are no third party beneficiaries to this Contract. Enforcement of this Contract is reserved to the parties.

31. Conflict of Interest
Consultant hereby certifies that, if applicable, its Contract proposal is made in good faith without fraud, collusion or connection of any kind with any other proposer of the same request for proposals or other City procurement solicitation(s), that the Consultant as a proposer has competed solely on its own behalf without connection or obligation to, any undisclosed person or firm. Consultant certifies that it is not a City official/employee or a business with which a City official/employee is associated, and that to the best of its knowledge, Consultant, its employee(s), its officer(s) or its director(s) is not a City official/employee or a relative of any City official/employee who: i) has responsibility in making decisions or ability to influence decision-making on the Contract or project to which this Contract pertains; ii) has or will participate in evaluation or management of the Contract; or iii) has or will have financial benefits in the Contract. Consultant understands that should it elect to employ any former City official/employee during the term of the Contract then that the former City official/Consultant employee must comply with applicable government ethics and conflicts of interest provisions in ORS Chapter 244, including but not limited to ORS 244.040(5) and ORS 244.047, and the City's Charter, Codes and administrative rules, including lobbying prohibitions under Portland City Code Section 2.12.080.

32. Respectful Workplace Behavior
The City of Portland is committed to a respectful work environment, free of harassment, discrimination and retaliation and other inappropriate conduct. Every individual has a right to work in a professional atmosphere where all individuals are treated with respect and dignity. The City's HR Rule 2.02 covers all employees with the City of Portland as well as consultants, vendors or consultants who provide services to the City of Portland. By signing this Contract/Agreement, the Consultant indicates compliance with all terms and conditions contained in this Contract including HR 2.02.

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STATEMENT OF THE WORK
AND PAYMENT SCHEDULE

SCOPE OF WORK

See attached Exhibit A, attached hereto and incorporated herein.

CONSULTANT PERSONNEL

The Consultant shall assign personnel to work in the capacities designated below:

ROLE ON PROJECT – PM & Structures
Project Manager and Principal in Charge
Assistant Project Manager
Design Engineer 1
Design Engineer II
CADD
Administrative Support
Quality Manager
ROLE ON PROJECT – Civil / Survey
Principal / Project Manager
Project Engineer
Design Engineer / Designer
CADD
Project Administration
Survey Manager
Project Surveyor
2-Person Field Crew
Survey Tech

SUBCONSULTANTS
The Consultant shall assign the following subconsultants to perform work in the capacities designated:

NAME	DMWESB CERTIFICATION TYPE	ROLE ON PROJECT	SUBCONTRACT AMOUNT
GRI	N/A	Geotechnical engineering services for the bridge and retaining walls, pavement designs, and hazardous materials evaluations	$182,147.00
Architectural Applications, PC	ESB #8873	Bridge architecture design services	$386,255.00
Kittelson	N/A	Roadway, temporary traffic, and lighting electrical design services	$233,964.00
ZGF	N/A	Urban and landscape design and assist with developing bridge type alternatives	$164,617.00
Alta Planning + Design	N/A	Preliminary trail design services	$59,235.00
Environmental Science & Assessment	ESB #2472	Biological and sensitive land resources permitting services.	$18,969.00
Archaeological Investigations Northwest, Inc.	N/A	Cultural resource surveys and documentation services.	$67,737.00
Wiser Rail Engineering	ESB #9203	Railroad coordination and acquiring required easements and crossing agreements.	$35,007.00
Michael Minor & Associates	DBE/MBE/ESB #965	Noise engineering and analysis services	$10,660.00
Biella Lighting Design	DBE/WBE/ESB #5758	Bridge and approach pathway lighting design	$26,180.00
Dave Place	N/A	Construction consulting services associated with cost, schedule, and constructability	$61,180.00
Morgan Holen & Associates, LLC	ESB/WBE #8482	Arborist Services	$8,840.00

The City will enforce all social equity Contracting and Disadvantaged, Minority, Women and Emerging Small Business (D/M/W/ESB) subContracting commitments submitted by the Consultant in its Proposal. For Contracts valued $50,000 or more, the Consultant shall submit a Monthly Subconsultant Payment and Utilization Report (MUR), made part of this Contract by reference, reporting ALL subconsultants employed in the performance of this agreement. A copy of the Subconsultant Change Request Form can be found on Procurement Services' website under Consultant Resources.

COMPENSATION

The maximum that the Consultant can be paid on this Contract is $2,315,359.00 (hereafter the "not to exceed" amount.). The "not to exceed" amount includes all payments to be made pursuant to this Contract, including reimbursable expenses, if any. Nothing in this Contract requires the City to pay for work that does not meet the Standard of Care or other requirements of the Contract. The actual amount to be paid Consultant may be less than that amount.

The Consultant is entitled to receive progress payments for its work pursuant to the Contract as provided in more detail below. The City will pay Consultant based on these invoices for acceptable work performed and approved until the "not to exceed" amount is reached. Thereafter, Consultant must complete work based on the Contract without additional compensation unless there is a change to the scope of work.

Any estimate of the hours necessary to perform the work is not binding on the City. The Consultant remains responsible if the estimate proves to be incorrect. Exceeding the number of estimated hours of work does not impose any liability on the City for additional payment.

If work is completed before the "not to exceed" amount is reached, the Consultant's compensation will be based on the Consultant's bills previously submitted for acceptable work performed and approved.

PAYMENT TERMS: Net 30 Days

Hourly Rates

The billing rates shall not exceed those set forth in Exhibit B, attached hereto and incorporated herein.

Standard Reimbursable Costs

The reimbursable costs shall be limited to the reimbursable costs set forth in Exhibit B.

Subconsultant Costs

Compensation for subconsultants shall be limited to the same restrictions imposed on the Consultant. The maximum markup on subconsultant services shall not exceed 0%.

Adjustment of Labor Rates Due to Inflation

Annual adjustment of hourly rates will be considered upon written request from the Consultant. Approval of a request for rate increases is solely within the City's discretion and under no circumstances is the City obligated to approve such a request.

Rate increases are subject to the following limitations:

- No increases will be granted before the one-year anniversary of the Contract;
- No more than one increase shall be granted per Contract year;
- Rate increases may not exceed the then-current average inflation rate for the Portland Metropolitan Area (as determined from the US Department of Labor statistics);
- Rate increases shall not be retroactive.

Other than the impact of inflation as described above, hourly rates may not be increased.

Progress Payments

On or before the 15th of each month, the Consultant shall submit to: PBOTContracts@portlandoregon.gov an electronic copy (pdf only) invoice for work performed by the Consultant during the preceding month. The invoice shall be on the prime contractor's business letterhead and contain the City's Contract Number and any Task Order and/or Purchase Order number, as applicable, the PBOT Project Managers name, and set out all items for payment including, but not limited to: invoice number, period services were performed for, the name of the individual, labor category, direct labor rate, hours worked during the period, and tasks performed. The Consultant shall also attach photocopies of claimed reimbursable expenses, as applicable. A summary shall be provided per invoice showing, Current amount billed, past invoices billed but unpaid, invoices paid to reflect total amount billed as of invoice date against contract total. The Consultant shall stamp and approve all subconsultant invoices and note on the subconsultant invoice what they are approving as "billable" under the contract, if subconsultants were used under this contract. The billing from the prime should clearly roll up labor and reimbursable costs for the prime and subconsultants – matching the subconsultant invoices. Prior to initial billing, the Consultant shall develop a billing format for approval by the City.

The City shall pay all amounts to which no dispute exists within 30 calendar days of receipt of the invoice. Payment of any bill, however, does not preclude the City from later determining that an error in payment was made and from withholding the disputed sum from the next progress payment until the dispute is resolved.

The Consultant shall make full payment to its subconsultants within 10 business days following receipt of any payment made by the City to Consultant.

ACH Payments

It is the City's policy to pay its Consultant invoices via electronic funds transfers through the automated clearing house (ACH) network. To initiate payment of invoices, Consultant shall execute the City's standard ACH Vendor Payment Authorization Agreement.

Upon verification of the data provided, the Payment Authorization Agreement will authorize the City to deposit payment for services rendered directly into Consultant accounts with financial institutions. All payments shall be in United States currency.

WORKERS' COMPENSATION INSURANCE STATEMENT

IF YOUR FIRM HAS CURRENT WORKERS' COMPENSATION INSURANCE, CONSULTANT MUST SIGN HERE:

I, undersigned, am authorized to act on behalf of entity designated below, and I hereby certify that this entity has current Workers' Compensation Insurance.

Consultant Signature: _____ Date: _____ Entity: _____

IF YOUR FIRM DOES NOT HAVE CURRENT WORKERS' COMPENSATION INSURANCE, CONSULTANT MUST COMPLETE THE FOLLOWING INDEPENDENT CONSULTANT CERTIFICATION STATEMENT:

As an independent Consultant, I certify that I meet the following standards:

1. The individual or business entity providing labor or services is registered under ORS Chapter 701, if the individual or business entity provides labor or services for which such registration is required;

2. Federal and state income tax returns in the name of the business or a business Schedule C or form Schedule F as part of the personal income tax return were filed for the previous year if the individual or business entity performed labor or services as an independent Consultant in the previous year; and

3. The individual or business entity represents to the public that the labor or services are to be provided by an independently established business. Except when an individual or business entity files a Schedule F as part of the personal income tax returns and the individual or business entity performs farm labor or services that are reportable on Schedule C, an individual or business entity is considered to be engaged in an independently established business when four or more of the following circumstances exist. Consultant: check four or more of the following:

_____ A. The labor or services are primarily carried out at a location that is separate from the residence of an individual who performs the labor or services, or are primarily carried out in a specific portion of the residence, which portion is set aside as the location of the business;

_____ B. Commercial advertising or business cards as is customary in operating similar businesses are purchased for the business, or the individual or business entity has a trade association membership;

_____ C. Telephone listing and service are used for the business that is separate from the personal residence listing and service used by an individual who performs the labor or services;

_____ D. Labor or services are performed only pursuant to written Contracts;

_____ E. Labor or services are performed for two or more different persons within a period of one year; or

_____ F. The individual or business entity assumes financial responsibility for defective workmanship or for service not provided as evidenced by the ownership of performance bonds, warranties, errors and omission insurance or liability insurance relating to the labor or services to be provided.

_____ _____
Consultant Signature Date

FOR CITY USE ONLY

PROJECT MANANGER-COMPLETE ONLY IF CONSULTANT DOES NOT HAVE WORKER'S COMPENSATION INSURANCE
ORS 670.600 Independent Consultant standards. As used in various provisions of ORS Chapters 316, 656, 657, and 701, an individual or business entity that performs labor or services for remuneration shall be considered to perform the labor or services as an "independent consultant" if the standards of this section are met. The Contracted work meets the following standards:

1. The individual or business entity providing the labor or services is free from direction and control over the means and manner of providing the labor or services, subject only to the right of the person for whom the labor or services are provided to specify the desired results;

2. The individual or business entity providing labor or services is responsible for obtaining all assumed business registrations or professional occupation licenses required by state law or local government ordinances for the individual or business entity to conduct the business;

3. The individual or business entity providing labor or services furnishes the tools or equipment necessary for performance of the Contracted labor or services;

4. The individual or business entity providing labor or services has the authority to hire and fire employees to perform the labor or services;

5. Payment for the labor or services is made upon completion of the performance of specific portions of the project or is made on the basis of an annual or periodic retainer.

_____ _____
City Project Manager Signature Date

CONSULTANT SIGNATURE:

This Contract may be signed in two (2) or more counterparts, each of which shall be deemed an original, and which, when taken together, shall constitute one and the same Agreement.

The parties agree the City and Consultant may conduct this transaction, including any Contract amendments, by electronic means, including the use of electronic signatures.

I, the undersigned, agree to perform work outlined in this Contract in accordance to the STANDARD CONTRACT PROVISIONS, the terms and conditions, made part of this Contract by reference, and the STATEMENT OF THE WORK made part of this Contract by reference; hereby certify under penalty of perjury that I/my business am not/is not in violation of any Oregon tax laws; hereby certify that my business is certified as an Equal Employment Opportunity Affirmative Action Employer and is in compliance with the Equal Benefits Program as prescribed by Chapters 5.33.076 and 5.33.077 of Code of the City of Portland; and hereby certify I am an independent consultant as defined in ORS 670.600.

KPFF Consulting Engineers, Inc.

BY:_____ Date:_____

Name:_____

Title:_____

CONTRACT NUMBER: 30006006

CONTRACT TITLE: Sullivan's Crossing Bicycle and Pedestrian Bridge

CITY OF PORTLAND SIGNATURES:

By: _____ Date: _____
Elected Official

Approved:

By: _____ Date: _____
Office of City Auditor

Approved as to Form:

By: _____ Date: _____
Office of City Attorney

EXHIBIT A

STATEMENT OF WORK (SOW)

PROJECT DESCRIPTION

The City of Portland Bureau of Transportation (Agency) is contracting with KPFF (Consultant) for engineering consulting services (Services) in connection with the proposed new Sullivan's Crossing Bicycle and Pedestrian Bridge and associated connections. The bridge will connect Portland's Central Eastside Industrial District and the Lloyd District over I-84 in the vicinity of NE 7th Avenue. The project will form a key link in the City's overall "Green Loop".

The project is anticipated to include the following:

- A new bicycle and pedestrian bridge spanning over I-84 and UPRR located near or along NE 7th Avenue. Depending on the alignment, the bridge is estimated to be between 350 ft. and 475 ft. long. The bridge width is anticipated to be approximately 24 ft. wide measured from inside face of rail to inside face of rail. Foundations and bridge structural elements will be analyzed and designed. This will also include developing bicycle and pedestrian sidewalks, lanes, striping, etc. to safely guide users across the bridge
- New connections at the north and south termini of the bridge. Given that there are multiple alternative intersection treatments that will be reviewed as part of the alternatives analysis we have identified two options for consideration in development of this scope of work and the associated fees. We are defining these options as follows:
    - Base Project: The following describes the limits of proposed construction that is covered under our non-contingency design tasks.
        - Roadway, curb ramp and associated stormwater improvements at the north landing will be limited to curb and sidewalk modifications at the intersection of 7th and Lloyd and extending no more than 100-feet from the existing intersection in each direction.
        - Incorporation of street lighting and a traffic signal at the intersection of Lloyd and 7th.
        - Striping and signage modifications on Lloyd between MLK and 9th Ave with no addition changes to pavement, curbs or other facilities other than those described above.
        - Improvements at the south landing will be limited to either; improvements on 7th between Flanders and Everett or on 8th between Glisan and Flanders. Improvements may include new curb ramps at (2) intersection, construction of pathway connection, street side sidewalks, street lighting, street trees, striping and signing and stormwater management facilities.
    - Alternate Intersection Design: The following describes the limits of proposed construction that would be covered under contingency tasks for design if selected as a preferred alternative:

  - Improvements at the north landing would consist of the construction of a new mini roundabout at the intersection of 7th and Lloyd instead of the signal identified above. This would require additional roadway work to provide for adequate lane transitions into and out of the proposed roundabout. Curb line and roadway modifications may extend up to 200-feet from the existing intersection in each direction. The contingency task design, if selected, specifically excludes signal and interconnect design.
  - Striping and signage modifications on Lloyd between MLK and 9th Ave with no addition changes to pavement, curbs or other facilities other than those described above.
  - Improvements at the south landing will remain unchanged from those included in the Base Project described above.
- Evaluation of planned future Sullivan's Gulch Trail (running parallel to I-84) between NE 12th Ave. and the Eastbank Esplanade, with emphasis on the portions of the trail that may impact the bridge crossing. This will include an alternatives analysis of the most feasible trail alignments and an evaluation of how the preferred bridge alignment / type would interact with the trail options.
- Utility adjustments necessary to accommodate proposed improvements. This may include relocation or adjustments of public water facilities and private utilities.
- Landscaping, aesthetics, and urban design. This work will include evaluating and designing architectural elements to enhance users' experience with the planned new bridge such as lighting, viewing areas, benches, and other features.

The public will be engaged during the course of the design. Agency staff will organize and conduct public involvement activities periodically during the preliminary engineering phase for additional input and feedback as necessary. Consultant shall provide support services for public involvement activities.

The Agency reserves the right to amend this Statement of Work (SOW) and Work Order Contract (WOC) to include tasks and deliverables required to complete the Project. The Consultant shall not provide any additional services unless and until an amendment to this SOW and WOC have been executed and a written notice to proceed (NTP) has been issued by the Agency.

The following team member firms will provide services as subconsultants to KPFF for this project:

GRI: Will provide geotechnical engineering services for the bridge and retaining walls, pavement designs, and hazardous materials evaluations
Architectural Applications (a2): Will provide bridge architecture design services
Kittelson: Will provide roadway, temporary traffic, and lighting electrical design services
ZGF: Will provide urban and landscape design and assist with developing bridge type alternatives
Alta: Will provide preliminary trail design services
ES&A: Will provide biological and sensitive land resources permitting services.

Archaeological Investigations Northwest, Inc. (AINW) : Will provide cultural resource surveys and documentation services.

Wiser Rail: Will assist with railroad coordination and acquiring required easements and crossing agreements.

Michael Minor & Associates (MMA): Will provide noise engineering and analysis services

Biella Lighting Design: Will provide bridge and approach pathway lighting design

Dave Place: Will provide **c**onstruction consulting services associated with cost, schedule, and constructability

Morgan Holen & Associates: Will provide consulting arborist services.

WORK TO BE PERFORMED BY OTHERS:

The City has assigned a project manager to oversee the Consultant's work and provide support as needed. Specific duties the City/Others will perform include:

a. Coordination of technical reviews
b. Schedule and staff coordination meetings as needed
c. Internal Technical Review and Approval
d. Review and approval of any needed design exceptions
e. Process amendments as required during project
f. Lead public involvement activities including development and distribution of meeting invites/notifications, determining meeting location, and facilitation of meetings.
g. Right of Way Acquisition services.
h. Coordinate Public and Private Utility Reviews.
i. Design for wayfinding signs outside the project limits.

TASKS, DELIVERABLES and SCHEDULE

Consultant shall complete all tasks and provide all deliverables (collectively, the "Services") according to the performance and delivery schedules as indicated and listed below.

DELIVERABLES OVERVIEW

In addition to the electronic media or hard copy deliverables required in specific tasks, all interim and final memorandums, reports, or other documents listed as deliverables in this SOW will be provided electronically in Microsoft Word, Microsoft Project, Microsoft Excel and Adobe Acrobat (PDF) format upon request. Graphics-based products will be provided in Microstation format in a version that is compatible with the Agency. In addition to the electronic or hard copies required in specific tasks, all graphics-based deliverables will be provided electronically upon request.

The SOW includes contingency tasks that identify specific deliverables which the Agency at its discretion may elect to authorize the Consultant to produce. The Consultant shall only complete those tasks and the identified deliverables if a separate, written notice to proceed (NTP) is issued (email acceptable) by the Agency. These tasks are specifically identified as contingency tasks.

PROJECT SCHEDULE

Following is the currently anticipated schedule for completion of this SOW:

- Notice to Proceed (NTP) – late July or August 2017
- Preferred Alternatives Selection – NTP + 4 months
- 30% PS&E Submittal – PA Selection + 3 months
- Agency Review of Preliminary Design (30%) – 2 weeks
- 60% PS&E Submittal – Completion of Agency review of 30% + 3 months
- Agency Review of 60% – 3 weeks
- 90% PS&E Submittal – Completion of Agency review of 60% + 3 months
- Agency Review of 90% – 3 weeks
- Draft Final PS&E - Completion of Agency review of 90% + 1.5 months
- Agency Approval of Draft Final PS&E – 3 weeks
- Final PS&E

All deliverables identified in this WOC will be submitted to Agency according to the project schedule developed as part of Task 1.

TASK 1 PROJECT MANAGEMENT

Consultant shall provide the management, coordination, and direction to the Project Team including the Consultant team, Agency staff and Agency's consultants (if any) throughout the duration of the Project.

Key Task 1 Assumptions:

- 19 month Design schedule:
  - NTP to Alt. analysis = 4 months
  - Alt. analysis to Preliminary Design (30%) = 3 months
  - 30% to 60% Design = 3 months
  - 60% to 90% design = 3 months
  - 90% to Draft Final = 1.5 months
  - Draft Final to 100% PS&E = 1 month
  - Sum total of Agency reviews = 3.5 months
- 3 month Bidding schedule
- 18 month construction schedule
- Construction meetings not included in this task. These services are included in the Construction Administration Task.

1.1 Project Management And Coordination

Consultant shall manage, coordinate, and provide project oversight to the tasks included in this SOW and maintain coordination with the Agency's PM. Consultant's PM shall communicate with the Agency's PM regarding the status of services being performed and to discuss issues or concerns that may impact the project.

Consultant shall monitor the project scope, schedule and budget on an on-going basis through design and construction.

Consultant shall create, update and maintain outstanding issue and action item logs.

Deliverables:

- Records of coordination activities and decisions made, and copies of documentation to Agency PM upon completion of project, or as requested.
- Outstanding Issue and Action Item Logs (during Design)

1.2 Meetings during Design

Consultant shall attend and participate in regular project-related meetings throughout the project as identified below. Consultant shall develop meeting agendas and schedule meetings to facilitate attendance by the requested attendees. Consultant shall prepare and distribute draft meeting notes for each meeting and maintain a list of action items and outstanding issues. It is assumed that project meetings will be local (City of Portland offices, Consultant offices, or project site). The attached *Meeting Summary Table* provides a more detailed list of Consultant staff that is assumed to attend the meetings outlined below.

1.2.1 **Kickoff**.
Consultant shall attend one Project kick-off meeting within 10 days of NTP. The objective of the meeting is to introduce project personnel, develop communication protocols, and to share existing knowledge about the project. The kickoff meeting will be held at either the Agency's or Consultant's offices, as determined by the Agency. Consultant shall issue meeting agenda to Agency five (5) business days prior to date of meeting. For estimating purposes it is assumed that 12 Consultant staff shall attend the meeting. The Kickoff meeting is estimated to be three hours in length including travel time.

1.2.2 **Work Plan**.
Consultant shall lead and administer the Work Plan Meeting. The objective of the meeting is to develop a more detailed list of need-by dates and other schedule interdependencies. The Work Plan schedule will supplement the main Project schedule. For estimating purposes, it is assumed that 17 Consultant staff will attend the meeting The Work Plan meeting is estimated to be four (4) hours in length including travel time.

1.2.3 **Project Development Team (PDT) Meetings** (with expanded Agency staff attendees).
Consultant shall attend up to eight (8) PDT team meetings scheduled with Agency staff to review and discuss deliverables, upcoming milestones, and at other key stages of the design phase. For estimating purposes, it is assumed each meeting will by 2 hours in length and an average of nine (9) Consultant staff shall attend. Consultant shall issue meeting agenda to Agency at least five (5) business days prior to date of meeting.

1.2.4 **General project Design Coordination Meetings (**Agency PM and consultant staff)
Consultant shall lead regularly scheduled project design team meetings throughout the design phase. It is assumed that meetings will be held on average of twice per month. Attendees will be determined by the Consultant's PM and will vary depending on the phase of design and the planned agenda. For estimating purposes, it is assumed each meeting will by 2 hours in length. Consultant shall issue meeting agenda to Agency at least three (3) business days prior to date of meeting.

Deliverables:

- Draft & Final Meeting agenda
- Meeting Minutes, within 5 business days of each meeting

1.3 **Quality Control and Quality Assurance**.
Consultant shall complete quality control and quality assurance (QC/QA) procedures prior to submitting each deliverable to Agency. Quality processes will be overseen by the Consultant's Quality Manager. Quality checklists and documentation will be maintained and the Consultant's office and be available for review by the Agency.

Deliverables:

- QA/QC Documents, checklists and certifications, prior to each submittal
- Consultant shall provide written responses to review comments received from the Agency

- Consultant shall log responses to comments and must note how and if the comment was incorporated into the final deliverable.

1.4 **Project Schedule and Schedule updates**.
Consultant shall prepare and maintain a project schedule in Microsoft Project using the critical path method ("CPM"). The schedule shall include: major tasks, project development team meetings, deliverables, and milestones required to complete the work. Consultant shall continue to monitor and maintain the design schedule on a monthly basis.

Deliverables:

- Initial Project design schedule, within 3 weeks of NTP
- Project schedule updates, monthly

1.5 **Monthly Invoicing and Progress Reports**
Consultant shall prepare monthly invoices in a format approved by the Agency. Invoices shall provide a breakdown of costs to date and costs this period and compare to the budget. Consultant shall provide backup for expenses. Consultant shall provide a narrative Progress Report to accompany each invoice detailing progress and identifying impacts to schedule or budget.

Deliverables:

- Monthly progress reports
- Monthly invoices (including percentage of MWESB)

Contingency Task C1.6 Additional Project Team Meetings

Consultant shall attend up to four (4) additional local meetings scheduled by the Agency. Consultant shall prepare Meeting Agenda and Minutes. For estimating purposes, it is assumed that five (5) Consultant staff shall attend each meeting and each meeting will be two (2) hours in length.

Deliverables:

- Meeting Agenda and Meeting Minutes

TASK 2 SURVEY

Work under this task will focus on providing the design team base mapping needed for design in stages defined below and will be completed as appropriate to support the project's design timeline.

2.1 Preliminary Mapping for Alternatives Study

2.1.1 Survey Research

Consultant shall perform survey research for recorded Surveys, Plats, Subdivisions, Assessor's Maps, road plans, Government Corners, street monuments, etc. within and bounding the Project area. Consultant shall order documents or deeds or both documents and deeds from a title company or Multnomah County deed records as needed.

Deliverables:

Deliverables for this Task included at the end of Task 2.1

2.1.2 Control Survey

Consultant shall set permanent survey control points throughout the Project, run a horizontal traverse or network through the points, reduce/adjust the measured data, compute coordinates (northings & eastings) for each point and run differential levels through the points to establish the elevation of each point. The coordinates for this Project will be referenced to the Oregon State Plane Coordinate System (NAD83/91), North Zone and the elevations will be based upon the City of Portland Vertical Datum.

Deliverables:

Deliverables for this Task included at the end of Task 2.1

2.1.3 Record Monument Ties

Consultant shall recover and survey the location of record property, Government Corner, right-of-way and street centerline monuments lying within and adjacent to the Project limits.

Deliverables:

Deliverables for this Task included in at the end of Task 2.1

Task 2.1.4 Preliminary Mapping from GIS Assessors Mapping, Lidar Contours, and Aerial Photo

Work under this subtask will include survey services necessary to validate existing conditions data provided by the Agency for use in development of the alternatives analysis base mapping. The Agency will provide existing 2' contour mapping of the site in a MicroStation format computer drawing. The contour data will be derived from existing LiDAR data referenced to the Oregon State Plane Coordinate System (NAD 83/91), north zone and NAVD 88 vertical datum. Consultant to verify horizontal and vertical datums of the provided data and place appropriate notation on the face of the preliminary mapping. The base map drawing will contain contours depicting bare earth conditions and elements showing significant vegetation features. The Agency will also provide assessor's parcel information GIS shape file.

- Consultant shall collect sampling profile lines to review/truth LIDAR contours provided by the Agency.
- Consultant shall utilize record monument ties above to review/truth GIS boundary and right-of-way shapefile line work provided by the Agency.

Deliverables:

- Survey data in electronic format to support design team alternatives analysis work under Task 2.2.

2.2 Preferred Alternative Detailed Design Base Mapping

Following the selection of a preferred alternative, the Consultant shall conduct the following detailed survey work in support of the development of the design and construction documents. The project limits shall be generally defined as follows:

- Detailed survey of street intersection improvements and pedestrian landing area on the north side of I-84 extending approximately 250 feet in each direction from the intersection of Lloyd and 7th.
- Corridor mapping across hillside, rail, and ODOT Right-of-Way 100 feet east and west of the selected bridge alignment
- South Landing: 200 feet east and west x 100 feet south; 500 feet south x 150 feet
- Existing curb lines, striping and signage on NE Lloyd Blvd, from NE 12th Ave to NE Grand Ave outside of the area described above for use in development of striping and signage plans.
- Vertical profile of the existing top of rail, measured 1000 feet each side of preferred bridge alignment where it crosses the railroad.

2.2.1 Utility Field Markings and As-built Information

Consultant shall request “utility locates” (field markings and as-built maps) for the underground utilities within the Project limits that fall within the public right-of-ways through the “One Call” utility notification center.

Agency will provide Consultant with an Agency Survey that will compile a computer drawing containing the Agency GIS utility information in the Project area.

Consultant will review and compile all information as provided above graphically within the design base mapping.

Deliverables:

Deliverables for this Task included in Task 2.2

2.2.2 Right-of-Way Resolutions & Computed Property Lines

Consultant shall resolve the location of the public right-of-way lines for the streets within the Project limits. Consultant shall continue to reflect individual property lines based upon GIS shapefile provided by

the Agency. Consultant may adjust individual GIS shapefile property lines based on available record Plats and Records of Surveys, if appropriate.

Deliverables:

- Deliverables for this Task included in Task 2.2

2.2.3 Topographic Survey

Consultant shall perform a detailed topographic survey within the Project limits stated above. Topographic features to be surveyed shall include:

- Building corners and door thresholds when adjacent to right-of-way (within 5' +/-).
- Private walk connections.
- Street striping.
- Surface indications of utilities including manholes, grates, valves, meters, utility paint markings, etc. traffic signal and street lighting features
- Utility poles w/identification numbers, guy anchors and overhead wires that cross streets. (Overhead wires that run along a street are not needed) traffic signal and street lighting features
- Full topo and street centerlines, ¼ points, bottom face of curbing, top face of curbing, back of sidewalks and ground shots at regular intervals and sufficient spacing to produce a valid 3D model and topographic map of the surfaces and features within the project area, minimum 25-foot intervals.
- Driveways, wheel chair ramps and sign posts (with sign content descriptions).
- Rim, pipe and channel invert elevations and direction of flow for MH's.
- Street trees 3-inches DBH or larger and onsite trees 6-inches DBH or larger within 15 ft. of the limits of disturbance.
- Shrubs and landscaped areas
- Surface indications of sidewalk vaults.
- Grade break lines, tops of slope, bottom of slopes, ditches, etc.
- Sufficient ground and/or pavement shots to develop a DTM (3-D surface) and produce 1-foot contours.

2.2.4 Data Reductions and Deliverables

Consultant shall reduce all survey data gathered and prepare computer drawings containing all line work, topographic features, symbology and points surveyed. Consultant shall also generate a digital terrain model (DTM) of the Project and prepare 1-foot contours. The contour lines and the 3-D triangles (TIN or surface) shall be included as part of the final deliverables. The layering, line work and symbols used in the computer drawings must be easily discernible.

Task 2.2 Deliverables:

- ASCII (.TXT) file containing the coordinates (Point No., N, E, Elev. & Description) of all points surveyed;
- File listing the survey codes used, i.e. TRD = Tree Deciduous, SMH = Sewer Manhole, etc.;
- Copies of all utility as-built plans compiled;
- Copies of all original survey field notes;

- Base mapping files as follows:
  - A 2D or 3D MicroStation *.dgn of the planimetrics (line work and symbols showing all items on the map). The *.dgn format shall be compatible with MicroStation V8. (Note: Label size and type of sewer and water lines per as-built or GIS data.)
  - A 3D MicroStation *.dgn of the DTM triangles shall be provided in an InRoads *.dtm file Version 8.11.7 or compatible.

2.3 – Pre and Post Construction Record of Survey

File with the Multnomah County Surveyor's office a Pre and Post Construction Record of Survey reflecting project control and recovered monumentation within the project limits.

Deliverables:

- Pre and Post Construction (if necessary) Record of Surveys,

Contingency Task C2.4 - Develop legal descriptions and exhibits for R/W acquisition or Temp Construction Easements

Consultant shall complete and provide legal descriptions and exhibits for right-of-way dedications and temporary construction easements, as required. For each parcel, Consultant shall prepare a legal description and create a site exhibit on 8.5 x 11 inch sheets of paper. Exhibits will include tax lot number, construction plan stationing and identify the take or easement area needed in feet units. The number of property files will be determined during the preliminary design and is assumed to be five (5).

Contingency Task C2.5 - Construction Staking

Prior to the start of the construction phase, the consultant shall recover, verify, and replace (if necessary) existing project control.

The consultant shall be available for construction layout verification, quantity/volume calculation verification, and general on-call field and office survey consulting services as needed during the construction phase.

Deliverables:

- Pre and Post Construction (if necessary) Record of Surveys,

TASK 3 PUBLIC INVOLVEMENT SUPPORT

The goal for public involvement will be to inform the public and obtain support for a bridge design that is buildable within the budget. Public involvement (PI) will include:

- Outreach to organizations and other stakeholders
- Provide opportunities for public input and feedback as the work progresses
- Meet with the Design Commission, which may have an advisory role on the project, to inform them about the project

Key Task 3 Assumptions:

- Agency will lead PI effort, including meeting scheduling, stakeholder invitations, setting of agendas, and tracking of proceedings and outcomes
- Consultant team is not responsible for web design or hosting.
- Project website support shall be comprised of material generated during the course of the design & engineering process
- Updates to material will be supplied at intervals to be mutually agreed with the Agency
- Project will need to complete a Type II Design Review application with City of Portland and the project will not need to present before the Design Commission

3.1 Public Event Meeting Preparation, Participation, and Support

Consultant shall prepare for and participate in (2) two major public events (formats to be decided, i.e. presentations, open house, design charrette/workshop) led by Agency staff. Consultant's Project Manager and Agency's Project Manager and Public Involvement Specialist will develop an agenda prior to each meeting. The Consultant shall participate in a preparatory meeting with the Agency if required to develop the agenda. Consultant will provide exhibits and other information developed under other tasks for display at the public events. For estimating purposes, it is assumed that up to six (6) Consultant staff will attend each public event and the duration of each event will be four (4) hours.

Consultant shall prepare for and participate in up to 12 briefings with Agency-determined community stakeholders. For estimating purposes it is assumed that up to five (5) Consultant staff will attend each stakeholder briefing and the duration of each event will be two (2) hours.

The Agency PM will serve as the public involvement lead. Consultant shall support the Agency and assist in preparation of events, provide graphics and materials, and participate in events as needed.

Consultant shall develop graphics as defined below under deliverables for three (3) alternatives for each of the (2) public events. Consultant shall provide draft graphics to the Agency for review and comment prior to public meetings and shall incorporate modifications to address comments received.

Deliverables:

- Graphics (See Subtask 3.2)
- Notes from consultant discussions with the public within 5-days of the public events

Contingency Task C3.1.1 - Public Involvement – Additional Community Meeting

At the Agency's direction, consultant shall prepare for and participate in one (1)) additional public event led by Agency staff. Consultant's Project Manager and Agency's Project Manager and Public Involvement Specialist will develop an agenda prior to the meetings. The Consultant shall participate in a preparatory meeting with the Agency if required to develop agendas. Consultant will provide exhibits and other information for display at the public events.

Deliverables:

- See Task 3.1 Deliverables

3.2 Presentation graphics

Consultant shall develop and provide presentation graphics in support of the City's Public Involvement process. A variety of graphics will be developed and be suited to meet the City's objectives, the audience, and the message(s) being delivered. For estimating purposes, it is assumed the following graphics will be provided by the Consultant:

3.2.1 Artist Sketches and Diagrams

Consultant shall develop up to ten (10) sketches and diagrams to illustrate and communicate key aspects of the project, design options, and preferred alternatives to the public and other stakeholders. Consultant will assemble into PowerPoint presentations, if required.

3.2.2 Demonstration Boards

Consultant shall create up to eight (8) demonstration boards (approximately 4 boards X 2 public events). Boards will be high-resolution color and be approximately 24"x36" +/- 12" in size using materials and graphics developed in other tasks.

3.2.3 Physical Models

Consultant shall develop 1 physical, scaled model of the project vicinity to illustrate the project in three dimensions and to serve as the base for supporting scaled models of the shortlisted bridge options. (scale ~ 1" = 50')

Consultant shall develop 1 scaled model of each shortlisted bridge option that will fit with the scaled interchangeable base model developed as part of this subtask.

3.2.4 Static Visual Modeling / Rendering

Consultant shall develop up to three (3) digitally-generated (static) views of each shortlisted bridge option.

Consultant shall develop up to four (4) high resolution, color renderings of the preferred bridge alternative. It is assumed the renderings will demonstrate a view from the I-84, two views along the bridge, and one other view whose location will be determined later.

3.2.5 Dynamic Visual Modeling / Rendering

Consultant shall produce and develop two (2) digitally-generated videos of the preferred bridge alternative. One video will dynamically illustrate users' experience traveling along and across the preferred bridge and approaches. One video will dynamically illustrate motorists' experience driving to

and under the bridge. It is assumed that Video 1 will be approximately 1- 2 minutes long and Video 2 will be approximately 30 seconds long.

Consultant shall produce and develop up to two (2) virtual reality experiences for users travelling across the bridge and approaches.

Deliverables:

- Above listed products
- Up to three (3) different PowerPoint presentations

3.3 Type II Design Review Application

At the Agency's direction, Consultant shall prepare a Type II Design Review submittal package which will be reviewed and approved by Agency staff.

Deliverables:

- Project design submission package (application, narrative response, drawings) as outlined in the Guide to the City of Portland Design Review Process, May 2016 (https://www.portlandoregon.gov/bds/article/625096).

TASK 4 TRAIL ALTERNATIVES ANALYSIS

The objective of this task is to identify, develop, and evaluate up to three trail alignment alternatives. Each alternative will be brought to 15% design. A preferred alignment will not be chosen during this task – this decision will be made as part of Task 5.

The consultant shall:

4.1 Develop and evaluate up to three trail alignment alternatives

4.1.1 Meet with Agency and Agency-selected stakeholders to identify up to three trail alignment alternatives of the western-most segment of the Sullivan's Gulch Trail and to discuss potential evaluation criteria appropriate for the selected alternatives. Criteria including grade challenges, street connection alternatives, landscape implications, environmental impacts for trail alignments, constructability on slopes, CPTED, and compatibility with proposed new bridge will be considered.

4.1.2 Develop and submit a Trail Evaluation Criteria Technical Memorandum that documents the evaluation criteria and the method for scoring trail alignment alternatives. Feedback from the City on this draft memorandum is to be incorporated in the evaluation within Trail Alternatives Analysis report.

4.1.3 Develop each alternative to a 15% design level in AutoCAD or Adobe Illustrator using existing available data. The conceptual drawings will be shown in plan, section and profile views, and will indicate critical dimensions, unique geometric features and program elements, conceptual traffic control

and signage/striping, landscaping, location of visible utilities, proposed circulation revisions, and proximity to adjacent land uses.

4.1.4 Consultant will compare and contrast the trail alternatives using the selected criteria and summarize associated findings in the report.

4.1.5 Prepare cost estimates for alternatives
Consultant will provide an Engineer's cost estimate for each alternative, to be included in the Trail Alternatives Analysis Report.

4.2 **Prepare Trails Alternative Analysis Report**

4.2.1 Develop and submit a Draft Trail Alternatives Analysis, assembling the work done in Task 4.1 to date. The report will include:

- a description of each trail alternative concept,
- Illustrations of the 15% design concept for each alternative
- one photo simulation of each trail alternative, as described below
- documentation of the findings of the alternatives assessment performed in task 4.1.

For each of the trail alignment alternatives, consultant will create one photo simulation to visually illustrate the look and feel of the alternative and illustrate how each alternative fits within the landscape and roadway context. The project team may consider drone photography for visualization backgrounds. These simulations will be included in the Trails Alternative Analysis Report and available for use to support public outreach meetings.

4.2.2 Meet with Agency to review Draft Evaluation Criteria Memorandum

4.2.3 Incorporate review comments and finalize Evaluation Criteria Memorandum

Deliverables:

- Draft Trail Alignment Evaluation Criteria memorandum
- Draft and final Trails Alternatives Analysis Report

Assumptions:

- One trail alternative will be the alignment featured in the 2012 Sullivan's Gulch Trail Concept Plan, a second alternative alignment will be an option contained within the NE Lloyd Boulevard right-of way, and a third alternative will be a variation to be identified in collaboration with the Agency.

TASK 5 PREFERED ALTERNATIVE (PA) REPORT

The objective of this task is to recommend a preferred alternative for the primary project components. These components include:

- Preferred alignment for the bike/ped bridge
- Preferred bridge type and size for the bike/ped bridge
- Preferred trail alignment for Sullivan's Gulch Trail
- Preferred conceptual traffic design for NE Lloyd Blvd between NE 12th Ave and NE Grand Ave, including modifications at the NE 7th and Lloyd Blvd intersection

Consultant shall build upon findings and results from the previous preliminary works that have been completed for the project including the April 2016 Alternatives Analysis Report. Consultant shall re-familiarize stakeholders of these prior efforts.

The Consultant shall summarize the various alternatives analyses for these components in an overall Preferred Alternatives (PA) Report. The Consultant shall:

5.1 Research and Data Gathering

Perform research and gather data necessary to:

- Prepare a design criteria memorandum to document design criteria
- Identify connection points to and relationships with adjacent streets and trails
- Conduct site visits to review and photograph existing site conditions and develop a general understanding of the character of the area and connecting streets and trails.
- Engage affected property owners and stakeholders

Deliverables:

- List of communications with affected property owners and stakeholders

5.2 Alternatives Analysis Evaluation Criteria

- Re-visit evaluation criteria developed for the prior Alternatives Analysis Report (April 2016)
- Develop updated draft evaluation criteria for each of the primary component's alternatives analysis with input from Agency-determined stakeholders
- Meet with Agency and Agency-selected stakeholders to review and weight key evaluation criteria
- Develop and submit a Draft Evaluation Criteria Technical Memorandum that documents the evaluation criteria for each component's alternatives analysis and the method for scoring alternatives that are developed later in Task 5
- Meet with Agency to review Draft Evaluation Criteria Memorandum
- Incorporate review comments and finalize Evaluation Criteria Memorandum. (Final memorandum to be incorporated into the overall Preferred Alternatives Report in Task 5.9)

Deliverables:

- Draft and final Evaluation Criteria Technical Memorandum

5.3 Bridge Alignment Alternatives Analysis

- Re-visit bridge alignment analyses completed for the prior Alternatives Analysis Report (April 2016) and build upon these prior analyses
- In coordination with the Agency, adjust alignment analyses for new criteria, constraints, objectives and other factors
- Coordinate with Agency and identify the most feasible alignment options (up to 3)
- Analyze the currently preferred bridge type and landing design for each option to an approximate 10% level of completion
- Compare and evaluate alignment options against established evaluation criteria
- Prepare and submit a Draft Bridge / Pathway Alignment Evaluation Memorandum summarizing the pros and cons of the alignment options and recommending a preferred alignment
- Meet with Agency to review the Draft Memo and incorporate Agency comments into a final Memo. (Final memorandum to be incorporated into the overall Preferred Alternatives Report in Task 5.9)

Deliverables:

- Draft and Final Bridge / Pathway Alignment Evaluation Memorandum (memo to be incorporated into overall Preferred Alternative Report)
- Tree Survey Technical memorandum

5.4 Bridge Type and Size Alternatives Analysis

- Using the bridge alignment selected in the previous sub-task and in coordination with the Agency, supplement the Bridge Alignment Evaluation Criteria with additional criteria related to the bridge type and size.
- Re-visit bridge type analyses completed for the April 2016 Alternatives Analysis Report and build upon these prior analyses. Re-familiarize the Agency and other designated stakeholders with project constraints and other factors that led to the elimination of certain bridge types as part of the April 2016 Alternatives Analysis report. Modify the April 2016 bridge type analyses for new criteria or changes, yet otherwise seek to carry forward these prior findings and results and minimize re-analysis.
- Evaluate bridge type and size options for the determined alignment
- Identify up to 4 of the most feasible type and size combinations. This may include up to (2) new bridge types that were not considered in the prior April 2016 Alternatives Analysis Report
- Meet with Agency and Agency-determined stakeholders to review short-list of bridge type and size options. Objective of the meeting will be to confirm the short-listed options are acceptable to the Agency. Decisions will be recorded in the Meeting Minutes.
- Advance the design of each of the short-listed bridge type/size options to an approximate 15% level of completion
- Coordinate with roadway and other connection designs at each end of the bridge and include these considerations in the bridge option assessments

- Analyze anticipated pedestrian / bicycle travel demand and routing in the project area and coordinate with the Agency's broader pedestrian / bicycle planning
- Compare and evaluate type and size options against established evaluation criteria
- Develop conceptual (approximately 15% level of completion) drawings for bridge and connections for each alternative
- Bridge Drawings: Plan & Elevation; typical section; major steps in construction staging
- Develop conceptual design drawings for up to (3) alternative on-grade improvements at the north and south landings including: Horizontal and vertical alignments; pathway sections; plan view at connections to bridge; stormwater management plan
- Develop conceptual, rough order of magnitude construction cost estimates for each alternative
- Prepare and submit a Draft Bridge Type and Size Evaluation Report (similar to a typical Bridge TS&L report) summarizing the pros and cons of the options and recommending a preferred bridge type design
- Meet with Agency to review the Draft Memorandum and incorporate Agency comments into a final Memo. (Final memorandum to be incorporated into the overall Preferred Alternatives Report in Task 5.9)

Deliverables:

- Draft and Final bridge type and size memorandum

Assumptions:

- Consultant shall seek to reuse technical analyses, cost estimates, drawings, sketches, and other aspects of the prior April 2016 Alternatives Analysis Report as much as feasible.

Contingency Task C5.4.1 Additional Bridge Type and Size Alternatives Analysis

Consultant shall analyze one (1) additional bridge type and size alternative, beyond the quantity assumed in base Task 5.4. Scope of work, schedule, and deliverables shall be similar to the services outlined in Base Task 5.4.

Deliverables and Assumptions: See Task 5.4.

Contingency Task C5.5 Higher level of Effort for Bridge Alternatives Analysis

The purpose of this task is cover additional efforts required to be completed by the Consultant if it is determined by the Agency that a higher level of effort is required for alternatives analyses than included in base Tasks 5.3 and 5.4. A maximum allowance of $20,000 has been included for estimating purposes.

Deliverables and Assumptions: See Tasks 5.3 and 5.4.

5.6 Active Transportation Analysis and Conceptual Design

Consultant shall:

- Analyze anticipated pedestrian / bicycle travel demand and routing in the project area and coordinate with the City's broader pedestrian / bicycle planning
- Identify and evaluate bridge path cross-sections to support anticipated bicycle and pedestrian volumes and user types. This may differ from the standard cross section illustrated in the 2016 Sullivan's Crossing Alternatives Analysis Report
- Perform a desire lines analysis at up to three key intersections to understand existing pedestrian/bicycle routing and demand in the project area. This analysis will identify the specific routing paths and relative volume of the most common pedestrian/bicycle travel paths in use today, and will consider the potential impact of the Sullivan's Crossing bridge and connection on those demand paths. The desire lines analysis will be based upon direct observation and documentation of pedestrian and bicycle activity and on historic bicycle counts.
- Coordinate with Roadway and Traffic Design on potential and proposed conceptual traffic designs at the north and south bridge intersections with the street network.

5.7 Preferred Sullivan's Gulch Trail Alignment and Construction Methods

- Compare and contrast the Sullivan's Gulch Trail Alignment Alternatives developed in Task 4 in relation to the preferred bike/ped bridge, pathway connections, and roadway intersections. Review and discuss with the Agency trail alignment alternatives and potential bridge alignment considerations to jointly understand the range of options and potential implications regarding circulation and connection between the trail, bridge, and on-street active transportation networks.
- Analyze and evaluate methods for trail construction
- Recommend a preferred trail alignment
- Summarize findings in a technical memorandum
- Meet with Agency to review Draft memo, and incorporate Agency comments into final memorandum. (Final memorandum to be incorporated into the overall Preferred Alternatives Report in Task 5.9)

Deliverables:

- Draft and Final trail alignment memorandum

5.8 Traffic Analysis, Conceptual Traffic Designs, and Transportation Management Plan

5.8.1 Traffic Operations Analysis and Conceptual Traffic Designs

Consultant shall complete traffic analyses for possible road diet and other traffic modifications at each end of the bridge and incorporate the results of these analyses into the PS&E documents (see other Tasks). Consultant shall:

- Collect traffic data:

    - Weekday AM and PM 2-hour peak period traffic count data at the nine (9) study intersections
- 24-hour tube count including hourly and vehicle classification counts on NE Lloyd Boulevard
- Analyze anticipated pedestrian / bicycle travel demand and routing in the project area and coordinate with the Agency's broader pedestrian / bicycle planning
- Conduct weekday AM and PM traffic operations analysis for nine (9) study intersections for the following scenarios:
    - Existing traffic conditions
    - Buildout traffic conditions (assume year 2020 construction)
    - Future 20-year future traffic conditions
- Develop up to two (2) roadway configuration designs along NE Lloyd Blvd, including integration of trail designs
- Develop up to three (3) intersection configurations for the NE Lloyd Boulevard/NE 7th Avenue intersection (i.e., stop-controlled, signal, or mini-roundabout) including turning movement analysis
- Develop up to two (2) intersection configurations for the following intersections at the south bridge terminus including turning movement analysis
    - NE 7th Avenue/NE Flanders Street
    - NE 8th Avenue/NE Glisan Street
- Compare and evaluate traffic design options against established evaluation criteria
- Develop conceptual, rough order of magnitude construction cost estimates for each alternative
- Develop 15% traffic drawings for each alternative
- Prepare and submit a Draft Traffic Design Report summarizing the pros and cons of the options and recommending preferred designs: i.e., NE Lloyd Boulevard, northern bridge terminus, and southern bridge terminus
- Meet with Agency to review the Draft report and incorporate Agency comments into the final Report and submit final Report.

Deliverables:

- Preliminary and Final Traffic Analysis Reports

Assumptions:

- Project traffic operations analysis limits along NE Lloyd Boulevard will be between NE 12th Avenue and NE Martin Luther King Jr (MLK) Boulevard
- Intersection alternative analysis will be completed for the NE Lloyd Boulevard/NE 7th Avenue intersection at the north terminus
- Intersections in an approximate 3 block radius will be evaluated at the south bridge terminus (e.g., NE 7th Avenue/NE Flanders Street and NE 8th Avenue/NE Glisan Street)

5.8.2 Transportation Management Plan (TMP)

Consultant shall prepare a draft Project-level TMP per the Agency's and ODOT requirements. The TMP shall include such elements as: work zone traffic analysis, construction staging, work zone restrictions, detours, mobility issues, mitigation measures, and concurrence from Agency, ODOT, and MCTD on the

proposed staging approach, detours, and lane restrictions. Where detours (bike, pedestrian, or vehicular) are required. Consultant shall coordinate with the Agency and other stakeholders to build consensus for a recommended detour route. Consultant shall submit the initial TMP with 30% PS&E and update it at each subsequent design milestone.

Deliverables:

- Draft TMP with updates at 60%, 90% and Final PS&E

5.9 Preferred Alternatives (PA) Report

- Compile alternatives analyses developed in sub-tasks 5.1 through 5.8 into a single PA Report
- Submit PA Report

Deliverables:

- Final PA Report

TASK 6 PRELIMINARY DESIGN (30% PS&E)

The objective of this task is to advance the selected preferred alternative design from 15% to 30% level of design completion for the bridge, approaches and two adjacent street intersections. Reference the attached Drawing List Summary for assumed drawings at 30%.

Civil design and traffic design under this task is for the Base Project defined at the start of this scope of work. If the alternate intersection design is selected as a preferred alternative, additional associated work will be covered under contingency Task C6.2.

The Consultant shall:

6.1 Advance Preferred alternative Design from 15% to 30%

- Advance Bridge analysis and design from 15% to 30%
- Develop 30% bridge design drawings: See attached Drawing List Summary (typical)
- Advance pathway connections analysis and design from 15% to 30%
- Advance north and south intersection modifications analysis and design from 15% to 30%
- Develop 30% stormwater design including preliminary layout of propose stormwater infiltration facilities
- Develop 30% Civil Drawings
- Develop street lighting design for inclusion on Civil Drawings

- Develop 30% Signal design
- Update cost estimate
- Coordinate with other proposed improvements in the vicinity of the project
- Prepare 30% Design Narrative Report

- Assemble and submit 30% design package to Agency– drawings, cost estimate, Design Narrative Report, and key calculations
- Submit 30% plans package to UPRR

Deliverables:

- 30% Plans and Cost Estimate
- 30% Design Narrative
- Key Calculations

Contingency Task C6.2 - 30% Design – Alternate Intersection Design

At the Agency's direction, consultant shall conduct additional 30% Street and Stormwater design if the mini-roundabout as described at the beginning of this scope of work is selected as the preferred alternative. There will also be a reduction in the Traffic design efforts with the elimination of the traffic signal under this alternate design.

Deliverables: See Task 6.1

TASK 7 FINAL DESIGN (60%, 90%, Draft Final PS&E, and Final PS&E)

The objective of this task is to advance preliminary designs for the bridge, approaches, and two adjacent street intersections from 30% to Final design with interim milestones as outlined below.

Civil design and traffic design under this task is for the Base Project defined at the start of this scope of work. If the alternate intersection design is selected as a preferred alternative, additional associated work will be covered under contingency Task C7.5.

The Consultant shall:

7.1 60% PS&E

- Provide written responses to Agency's review of 30% Design and incorporate into 60% design
- Advance Preferred alternative analyses from 30% to 60% for bridge, approaches, and two adjacent street intersections
- Advance drawings for 60% level of completion (See attached *Drawing List Summary* for assumed drawings that will be produced at 60%)
- Develop preliminary bridge lighting design and drawings
- Update construction cost estimates. Estimate to be in std Agency bid item format.
- Develop draft of applicable technical specifications
- Complete constructability review
- Prepare exhibits, calculations, and descriptions for environmental permits
- Develop draft construction schedule
- Identify options for public art installations

- Work with City's staff to identify needed temporary construction easements and right-of-way dedications
- Advance utility coordinations and integrate into project design
- Prepare and submit Draft Geotechnical and Level 1 Haz Mat Reports (See Geotechnical and Environmental Tasks for more details)
- Assemble and submit 60% PS&E Package. Package to include: plans, specifications, cost estimate, key calculations, and schedule.

Deliverables:

- 60% PS&E
- 60% Construction Schedule
- Key design calculations
- Survey Files: Horizontal and vertical alignment files for key design features; Corresponding horizontal and vertical alignment files with common stationing; Text files containing the coordinates (N, E, Elev.) of design features in the design CAD files and shown on the Plans. (for 60% thru 100% Design)
- Preliminary Public Art Documentation

7.2 90% PS&E

- Provide written responses to Agency's review of 60% Design and incorporate into 90% design
- Advance analyses from 60% to 90% for bridge, approaches, and two adjacent street intersections
- Advance drawings to a 90% level of completion (See attached *Drawing List Summary* for assumed drawings that will be produced at 90%)
- Advance bridge lighting analyses to 90%
- Update construction cost estimates
- Advance technical specifications to a 90% level of completion
- Complete constructability review
- Update construction schedule
- Finalize specifications and plans for public art installations
- Finalize utility installations and relocations
- Finalize and submit Final Geotechnical and Level 1 Haz Mat Reports (See Geotechnical and Environmental Tasks for more details)
- Assemble and submit 90% PS&E Package. Package to include: plans, specifications, cost estimate, key calculations, and schedule.

Deliverables:

- 90% PS&E
- 90% Construction Schedule
- Key design calculations

7.3 Draft Final PS&E

For this task the design and all supporting documents will be advanced to a final level of completion; however, they will be unsigned.

- Provide written responses to Agency's review of 90% Design and incorporate into Draft Final design
- Advance analyses from 90% to for bridge, approaches, and two adjacent street intersections (Draft Final is intended to be essentially complete except for changes in response to any Agency or stakeholder review comments on the Draft Final submittal. Typical for all design disciplines)
- Advance drawings to a Final level of completion (See attached *Drawing List Summary* for assumed drawings that will be produced at Final PS&E)
- Advance bridge lighting analyses to final
- Update construction cost estimates
- Advance technical specifications to a final level of completion
- Update construction schedule
- Update any specifications and plans for public art installations
- Update any utility installations and relocations
- Assemble and submit Draft Final PS&E Package. Package to include: Plans, specifications, cost estimate (in standard Agency bid item format), calculations, and schedule.

Deliverables:

- Draft Final (unsigned) PS&E
- Draft Final Construction Schedule
- Draft Final Design calculations
- Draft Final Public Art Documentation

7.4 Final (100%) PS&E (Signed and Stamped)

- Provide written responses to Agency and stakeholder comments on the Draft Final PS&E
- Update PS&E documents in response to any comments on the Draft Final PS&E
- Assemble and submit 100% signed and stamped plans, specifications, cost estimate, calculations, and schedule

Deliverables:

- 100% Stamped and signed PS&E
- 100% Construction Schedule
- Design calculations
- Final Review and Comment Logs
- Completed Outstanding Issues and Action Item Logs
- Final QC/QA Documentation

Contingency Task C7.5 - FINAL DESIGN – Alternate Intersection Design

At the Agency's direction, consultant shall conduct additional Final design for Street and Stormwater improvements if the mini-roundabout as described at the beginning of this scope of work is selected as

the preferred alternative. There will also be a reduction in the Traffic design efforts with the elimination of the traffic signal under this alternate design.

Deliverables: See Task 7.1, 7.2, 7.3 and 7.4

TASK 8 ENVIRONMENTAL SERVICES

Consultant shall conduct research, field studies, Agency coordination and analysis to document the environmental consequences of the Project and to prepare and obtain required environmental permits.

8.1 Noise Analysis

This task includes noise analysis preparation, variance permit preparation, and assistance to the Agency. The Consultant shall complete the following tasks:

8.1.1 Noise analysis, coordination and variance application

Consultant will serve as a technical resource to gather information in the preparation of noise analysis and variance permit applications, and to identify and document the nighttime construction activities to be included in the noise variance application. Consultant shall coordinate these noise-related services with the Agency's public involvement processes. Because of the location of the project, and the fact that there are no residential receivers near the site, the nighttime noise variance will likely be an administrative variance and not require presentation to the City of Portland Noise Review Board. The Consultant shall:

- Gather noise related information in support of the noise variance application
- Complete necessary noise analyses
- Prepare draft and final Noise variance Permit applications

Deliverables:

- Draft and Final Noise Variance Application between 60% and 90% PS&E
- Supporting graphics, figures, noise calculations

Assumptions:

- City Noise Review Board grants the project an administrative variance

Contingency Task 8.1.2 Prepare for and Attend Noise Review Board Meeting

At the Agency's direction, Consultant shall prepare for and attend one (1) Noise Review Board Meeting in support of obtaining a noise variance.

Deliverables:

- Presentation materials and support graphics

Assumptions:

- City Noise Review Board Does not grant the project an administrative variance

8.2 Cultural Resources

Consultant will conduct a background review and literature search and conduct cultural resource surveys to investigate potential impacts to archaeological and historic resources. Historical maps (Sanborn Fire Insurance, USGS topographic, General Land Office), aerial photographs, lidar mapping, soil maps, archival information, and online sources will be consulted. Consultant will query the Oregon State Historic Preservation Office (SHPO) databases and local inventories to determine if archaeological sites, and historic resources over 45 years of age, have been previously recorded in the project Area of Potential Effects (APE). The APE will be surveyed for archaeological and historic resources.

Consultant will conduct a pedestrian field survey within the APE for archaeological resources. The archaeological survey in the APE will include areas where ground disturbances will occur by project construction, including staging areas, material sources, disposal sites, and detours, if any. The pedestrian archaeological survey methods and reporting will be consistent with SHPO guidelines. Consultant will determine transect spacing following SHPO guidelines and based on professional judgment to ensure that all probable site locations are discovered. All archaeological resources observable on the surface and in exposed subsurface profiles will be identified and recorded on archaeological site forms. Recommendations for shovel testing and a SHPO permit application will be a contingency task.

Consultant will conduct a field survey of the project APE to identify historic resources greater than 45 years in age that may be eligible for listing in the NRHP. All historic resources will be photographed and architecturally documented in the field and evaluated for NRHP determination of eligibility under Section 106. A baseline table of historic resources will be prepared noting eligibility and Finding of Effect for review by the Agency. The table will include descriptions of the historic resources, photographs, and address/tax parcel location data. A historic context will also be prepared. If NRHP eligible properties will be affected by the project, Determination of Eligibility and Finding of Effect forms may be needed as a contingency task.

The results of the background research and will be summarized in a draft report to SHPO standards to satisfy the requirements under Section 106. The report will include documentation of background research, methods and results of the field investigations, evaluations of archaeological and historic resources identified, and recommendations for further work, if needed.

Deliverables:

- One (1) electronic copy of draft archaeological and historic resource report in Word format.
- One (1) electronic copy of final archaeological/historic resource report in Word and PDF formats, two (2) weeks following receipt of comments.

Assumptions:

- No federal funding will be used for the project.

- Since ODOT, FHWA, and FRA will be involved for coordination, federal and state cultural resource law and regulations will be followed, including Section 106 of the National Historic Preservation Act.
- The APE has both pre-contact and historic-period archaeological resource potential.
- The gulch was historically filled, indicating archaeological sites could be deeply buried.
- Geotechnical bores for the project, if done outside of the road prism, will be monitored by an archaeologist.
- Up to 12 historic resources may be present within the APE.

Contingency Task C8.2.1 Shovel testing and SHPO permit Application

Shovel testing may be needed within the APE based on the results of the background review and archaeological survey. A permit from SHPO will be needed if shovel testing is done. Up to two site forms may be prepared.

Contingency Task C8.2.2 Determination of Eligibility and Finding of Effect

Determination of Eligibility and Finding of Effect documentation forms may be needed if NRHP eligible properties will be affected by the project.

8.3 Wetland and Biological Resources

The objective of this task is to survey the site for potential sensitive natural resources, identify required environmental permits, coordinate with the project team to avoid and minimize impacts, coordinate with Agency staff and regulatory agencies to identify and address their concerns, prepare necessary permit applications, and to coordinate obtaining of necessary permits. Consultant will complete a constraints analysis that will summarize the presence of any protected resources at the project site, identify any applicable local, state and federal regulations and resource agency concerns, and provide a list of any required approvals. Any further site information required will be identified, and any review timelines will be provided.

The Consultant shall complete the following sub-tasks.

8.3.1 – Background Data Collection & Field Documentation

Initial site analysis will include review of available information on natural resources at the project site, and include a field survey to locate and characterize any protected resources. Potential constraints to design identified during the site analysis will be incorporated into the development of bridge design alternatives. The Consultant shall:

- Obtain and review Oregon Biodiversity Information Center (ORBIC) database (request documentation
- Obtain and review USFWS project-specific species list

- Assess existing natural resource conditions for up to three (3) alternatives. Collect location, quality and extent of natural resources
- Identify natural resource permits and approvals required (if any) for proposed on-site work.

Deliverables:

- Natural Resources Technical Memo documenting existing natural resource conditions, and potential impacts, opportunities and constraints for the planned project footprint. The memo will also identify natural resource permits and approvals required (if any).

Contingency Task 8.3.2 - Permit Acquisition and Environmental Compliance

Consultant shall coordinate with the Agency's PM and conduct meetings or telephone conferences with permitting and resource agencies to confirm permitting strategies and the types of permits and approvals required. The Consultant shall prepare needed permit applications, follow-up with regulatory agencies, and facilitate the timely acquisition of environmental permits.

Deliverables:

- Draft list of Environmental permits and approvals
- Permit applications
- Document location and extent of invasive plant species (if necessary)

8.4 Hazardous Materials

The purpose of this task is to facilitate Agency compliance with environmental regulations pertaining to site cleanup and waste management. The services to be provided shall include:

- Conduct a Hazardous Materials Corridor Study to identify potential sources of contamination that could impact property acquisition or construction.
- Collect surface soil samples from road shoulders to evaluate if the soil meets Oregon Department of Environmental Quality (DEQ) standards for clean fill.
- Prepare contract special provisions for handling and disposal of contaminated materials.

8.4.1 Hazardous Materials Corridor Study

Consultant shall conduct a Hazardous Materials Corridor Study (HMCS) according to the following standards and guides:

- "Hazardous Waste Guide for Project Development" (1990), by the American Association of State Highway and Transportation Officials (AASHTO) Special Committee on Environment, Archaeology and Historic Preservation.
- "ODOT Hazmat Program Procedures Guidebook," 2010, Oregon Department of Transportation.
- "Level 1 Corridor Study" report template, ODOT.

Consultant shall conduct a site reconnaissance to identify potential sources of contamination that could impact construction or result in Agency acquiring contaminated property.

Consultant shall review available federal and State environmental databases to identify sites that could potentially impact the project, using the minimum search radii listed below.

Environmental Database	Search Radius
State-Equivalent NPL List (ECSIS)	0.5 mile
Oregon Permitted Landfill List	0.5 mile
State Leaking (L)UST List	0.25 mile
Federal RCRA Generators List	Site and Adjoining
State Fire Marshal's Spill Response List	Site and Adjoining
Oregon Motor Carrier Spill List	Site and Adjoining
State Certified UST List	Site and Adjoining

Consultant shall review DEQ files, available using DEQ's Facility Profiler web site at http://deq12.deq.state.or.us/fp20/, to assess whether contamination from adjacent facilities is likely to impact project construction. Alternatively, this review may be conducted using commercially available database reports such as provided by EDR.

Consultant shall conduct historical research to identify past uses of the project corridor and adjacent properties, using one or more of the following resources:

- Sanborn Fire Insurance Maps
- Aerial Photographs
- Reverse City Directories
- Historic property ownership/occupancy records or building permits

Consultant shall assess if soil sampling is necessary to determine if soil excavated from the project corridor shall meet DEQ clean fill screening levels for contaminants-of-concern including pesticides, herbicides, metals, polynuclear aromatic hydrocarbons, petroleum hydrocarbons, and solid waste.

Consultant shall prepare a HMCS report summarizing the information obtained through the activities listed above. The report shall include photographs documenting project corridor observations. The report must include conclusions that identify specific sources of contamination that could impact project construction and recommendations for further investigation, if needed.

Deliverables: Consultant shall provide:

- Draft HMCS report within eight (8) weeks following Notice to Proceed (NTP).
- Final HMCS report within one (1) week following receipt of final review comments.

8.4.2 Shoulder Material Investigation

Consultant shall collect surface soil samples within the limits of the project corridor for laboratory analysis. The results of those analyses will be compared with Oregon Department of Environmental Quality (DEQ) guidelines to determine if surface soil excavated for project construction can be handled and disposed as clean fill.

Deliverables: None.

8.4.2.1 Shoulder Material Investigation Work Plan and Health and Safety Plan (HASP)

Consultant shall prepare a Shoulder Material Investigation Work Plan and HASP describing how samples shall be collected for Task 8.4.2. The Work Plan shall describe sample collection methods, sampling equipment, equipment decontamination, and handling and shipment of samples. The HASP shall be completed in accordance with 29 CFR 1910.120, OAR 437-02-100 et seq., and all other applicable state and Federal worker health and safety regulations. The HASP should reflect the sampling and characterization activities described in the Work Plan and should include a traffic control plan, if needed. Sampling on UPRR ROW, if required, will be done in conjunction with and under permit for the concurrent geotechnical investigation.

The Consultant shall obtain all required permits from ODOT District office.

Consultant shall submit the draft Work Plan/HASP to the team for review and comment.

Deliverables: Consultant shall provide:

- Draft Shoulder Material Investigation Work Plan/HASP within four (4) weeks following completion of Task 8.4.1.
- Final Shoulder Material Investigation Work Plan/HASP within one (1) week following receipt of final Agency comments.

8.4.2.2 Sample Collection and Reporting

Consultant shall collect surface soil samples from within the limits of the project corridor. At each location, paired samples will be collected. Soil samples shall be obtained from 0 to 0.5 feet and 1 to 1.5 feet below ground surface. Consultant shall mark the proposed sample locations in white paint and obtain utility locates for all locations. Sample locations shall be backfilled with excavation spoils.

The samples shall be shipped to Apex Laboratories, of Tigard, Oregon where they will be composited into groups. The composite samples will be analyzed for the following:

- NWTPH-Gx, NWTPH-Dx, Method 8270 SIM PAHs, Method 8151 herbicides, Method 8081 pesticides, Method 8082 PCBs, and total metals according to Methods 6020 and 7471A.
- Total metals analyses will include antimony, arsenic, barium, cadmium, chromium, copper, lead, selenium, silver, zinc, and mercury.

Consultant shall prepare a Preliminary Site Investigation (PSI) report summarizing the chemical results. The report shall include the following:

- Field observations, photographs, description of sampling methods, laboratory reports, and tables summarizing the analytical results.
- Evaluation of the laboratory results compared to DEQ's clean fill screening levels.
- Conclusions that identify specific sources of contamination that could impact project construction.
- Recommendations and special provision language for handling and disposal of contaminated surface soil generated during construction.

Deliverables:

- Draft PSI report within four (4) weeks following receipt of laboratory results
- Final PSI report within one (1) week following receipt of comments

Task 8.5 Tree Inventory and Arborist Report

The purpose of this task is to assess and consider potential impacts to existing trees from the project and to ensure the project complies with the current City of Portland Title 11 Tree Code.

Includes:

An International Society of Arboriculture Board Certified Master Arborist will conduct one site visit to visually assess existing trees located within the defined Development Impact Area (DIA) and within 15-feet of the DIA. Collect data and complete the City's Urban Forestry Tree Inventory Worksheet, including species, diameter, root protection zone, general condition, exemptions, and treatment recommendations. The tree evaluation will be a Level 2 Visual Tree Assessment.

Consultant shall review and assess potential impacts to existing trees from considered alignments and conduct one site meeting with the City's Urban Forester assigned to this project to review preliminary recommendations for tree protection and discuss recommendations for tree removal and mitigation. The Consultant's findings and recommendations will be summarized in a draft written report to be submitted to the Agency.

Consultant shall coordinate within the design team to discuss potential tree impacts in terms of the proposed site plan, finalize treatment recommendations (retain or remove trees), determine tree protection recommendations, and calculate required mitigation, if any. Coordinate with Consultant's landscape architect with canopy density requirements if needed. Review the tree protection plan and planting plan drawings, and project specifications; provide comments as needed.

Finalize the Urban Forestry Tree Inventory Worksheet and Arborist Report and submit required tree permit applications.

Consultant shall respond to Reviewer questions / comments on the Tree Inventory Worksheet and tree permits.

This work shall be performed by a certified arborist and comply with the City of Portland's current Tree Code.

Deliverables:

- Draft and Final Urban Forestry Tree Inventory Worksheet
- Draft and Final Arborist report
- Tree permit applications (Any tree permit application fees to be paid by the Agency)
- Tree-related technical construction specifications
- Tree-related cost estimates

TASK 9 GEOTECHNICAL SERVICES

The objective of this task is to provide geotechnical engineering services in support of design and construction of the bridge structure and evaluation of the proposed trail alignment. These services will include a review of available subsurface information for the project area, subsurface explorations, laboratory testing, engineering analyses, and development of geotechnical conclusions and recommendations for the project. The geotechnical engineering services will be provided in substantial conformance with the current AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, ODOT Bridge Design and Drafting Manual, and ODOT Geotechnical Design Manual. Geotechnical findings and recommendations and will be summarized in a Geotechnical Technical Memorandum. Alternatives analyses are being completed by the Consultant in other Tasks to establish the preferred type, size, and location (TS&L) for the Sullivan's Crossing Bridge and a preferred alignment for the Sullivan's Gulch Trail.

The Consultant shall perform the following subtasks:

9.1 Subsurface Exploration Work Plan

Prior to beginning any work at the site, consultant shall prepare a Subsurface Exploration Work Plan (EWP) showing the proposed exploration locations and outlining the subsurface exploration program, including specific work and safety procedures and traffic control provisions. A range of likely subsurface exploration locations will be developed, and the EWP submitted, early during the Preferred Alternative Task in order initiate required notifications to The City. Actual subsurface exploration locations will be narrowed down and established after the bridge type, size, and location has been determined. No subsurface explorations will be performed prior to review and approval of the EWP by the City of Portland Bureau of Transportation (PBOT). All required Traffic Control Plans (TCP's) will be prepared by a flagging company licensed to work in the State of Oregon and reviewed by PBOT. Provisions for traffic control will be required for subsurface explorations located in or in close proximity to NE Lloyd Blvd and Interstate I-84 right-of-ways. Depending on property ownership and right-of-way considerations, permits for completing subsurface explorations may also be required for all of the exploration locations.

Deliverables:

One electronic copy of the Subsurface Exploration Work Plan at least sixty days prior to beginning any subsurface explorations. (The purpose of the sixty day period is to satisfy Agency notification and permitting requirements, particularly for any locations within the ODOT right of way.)

Assumptions:

- Formal Railroad submittal or Railroad permit not required for base scope.

9.2 Subsurface Explorations and Laboratory Testing

Consultant shall complete subsurface explorations at each planned bridge bent in conformance with the approved EWP and at key locations to support probable bridge erection methods. The actual number, depth, and location of the subsurface explorations will depend on the geometry and structural system of the selected bridge. For scoping and estimating purposes, it is assumed that the bridge will be supported by two end bents and one intermediate bent. Furthermore, it is assumed up to two additional borings will be required for temporary bridge erection.

Subsurface Explorations: The subsurface explorations will consist of completing a single, drilled boring in the vicinity of each proposed bridge bent. This will result in a total of three borings; however, it is anticipated that a fourth and fifth boring will be required to characterize subsurface conditions for the support of a temporary work platform and temporary vertical shoring tower during construction. The borings will be completed with track- and truck-mounted drill rigs using auger and/or mud-rotary drilling methods. Prior to completing any subsurface explorations, the presence of utilities will be reviewed through the public One-Call system and by a private utility locator. Consultant shall provide all required traffic control during completion of the subsurface explorations as outlined in the EWP.

The borings for the bridge bents will be advanced a minimum depth of 20 to 30 ft. into gravel. Borings for any temporary work platforms or vertical shoring towers, if required, will be advanced to a maximum depth of about 100 ft. or 10 ft. into gravel, whichever is less. Upon completion of the drilling, all borings will be backfilled in accordance with Oregon Water Resources Department requirements. Borings completed in paved areas will be repaired in accordance with applicable ODOT and/or City of Portland requirements.

Laboratory Testing: Consultant shall complete laboratory testing of samples obtained from the explorations to classify the soils and evaluate their engineering properties. Laboratory testing shall be completed in substantial conformance with applicable ASTM standards, and will include standard index tests such as natural moisture content determinations and grain size analyses. More advanced testing such as one-dimensional consolidation may be performed depending on subsurface conditions.

Deliverables:

- Preliminary boring logs and testing results
- Final boring logs and test results (to be incorporated in the overall Geotechnical Report.)

Assumptions:

- Field explorations will occur after the bridge bent locations have been established at the end of Preferred Alternative Task or near the beginning of the Preliminary Design Task.
- The subsurface explorations will be completed during a single mobilization and without any delays related to property access.
- Petroleum products or other potentially hazardous materials will not be encountered during completion of the subsurface explorations. Any additional time, chemical testing, and handling or disposal of handling potentially hazardous materials will result in additional costs.

- Any coordination with Railroad to be part of Task 12.
- Base scope excludes payment of any Railroad permits.
- Single lane closure may be required along NE Lloyd Blvd during drilling of northern borings.
- Subsurface explorations will be completed during normal daytime hours Monday through Friday.
- Brush can be cleared on slope between UPRR and NE Lloyd Blvd. to facilitate borings

CONTINGENCY TASK C9.2.1: Additional Soil Boring

Consultant shall complete up to two (2) additional soil borings according to the criteria in Task 9.2.

Assumptions:

- Additional soil borings will be completed under the same mobilization as the base borings.
- No work within UPRR Right-of-Way. It is anticipated that Railroad flagging will be required for up to two (2) of the borings. Railroad flagging to be paid by City.
- Single lane closure along I-84 will be required to access and complete up to one of the additional borings. Work will be completed during nighttime work hours.

9.3 Geotechnical Analysis

Consultant shall perform engineering analyses to develop geotechnical recommendations for design and construction of the bridge foundations, retaining walls, pavement and potential temporary work platforms. The geotechnical analyses will be conducted in accordance with current AASHTO and ODOT design guidelines. The geotechnical analyses will include evaluating the axial and lateral resistance of shallow foundations and deep foundations including drilled piles or shafts and driven steel piles, evaluating lateral loading on abutments walls and pile caps, and evaluating pavement alternatives for the bridge approaches.

Consultant shall provide conceptual-level geotechnical considerations to support an alternatives analysis for the Sullivan's Gulch Trail.

Deliverables: See Task 9.4

9.4 Geotechnical Technical Report

Consultant shall prepare a Draft and Final Geotechnical Technical Report that summarizes the subsurface conditions at the site, discusses the results of the engineering analyses, and provides geotechnical conclusions and recommendations for design and construction of the bridge foundations. The technical report will include logs of the subsurface explorations and all laboratory test results.

Deliverables:

- Draft Geotechnical Technical Report within eight weeks of completing all subsurface explorations
- Final Geotechnical Technical Report within four weeks of receiving all review comments on draft report

9.5 Geotechnical Consultation for Final Design

Consultant shall provide geotechnical consultation for final design including review of geotechnical aspects of the project plans and specifications. Consultant shall incorporate review comments in the advanced submittals.

Deliverables: None.

TASK 10 UTILITY COORDINATION

10.1 Utility Coordination

This task includes contact, coordination, and official notification with up to 6 utility facilities within the Project limits. If a utility is nonresponsive or uncooperative, Consultant shall notify the City, and City will communicate with the utility to affect a solution.

Consultant shall:

- Obtain system mapping from utilities located within the Project limits. This information shall be confirmed with the survey information obtained from City.
- Review utilities within the Project limits and coordinate with utility owners in order to determine conflicts with the Project work and potential resolutions, including utility relocation.
- Maintain a detailed Utility Communication Log of each contact made stating utility name, contact name, items discussed, resulting action items, and scheduling needs.
- Support the design submittals with a Utility Conflict Matrix documenting potential conflicts, updating at each submittal for potential conflicts and resolutions to the conflicts.
- Attend project sub team meetings when requested and coordinate with the design team on the outcome of the meeting and impacts to utility coordination.

Deliverables:

- Utility Communication Log (MS Excel format).
- Utility conflict list at 30%, 60%, 90%, and Final (PDF format)

Assumptions:

- The City will provide existing agreements with the utility companies, describing easements and access rights.

10.2 Prepare Utility Notices

Prepare forms and supporting documentation for the City's Utility Notification process. Consultant shall submit Utility Notifications to the City, for City personnel to submit Notifications.

- First Utility Notice will occur immediately to re-initiate project contact. Use the letter template located at: https://www.portlandoregon.gov/transportation/article/582959.
- Upon completion of the 30% Design, prepare Second Utility Notice and the Paving Attachment. Use the letter templates located at: https://www.portlandoregon.gov/transportation/article/582960 and https://www.portlandoregon.gov/transportation/article/583156; and
- Allow each utility a 30-day period to respond with a proposal from date of the Second Notice. Multiple notices or revised notices must be created for delivery to a utility owner when additional facility conflicts become apparent.

- Third Utility Notice will occur upon completion of the 100% Construction Plans. Use the letter template located at: https://www.portlandoregon.gov/transportation/article/582961.
- Prepare a Draft Fourth Utility Notice to be issued by City with award of the construction contract. Use the letter template located at: https://www.portlandoregon.gov/transportation/article/582962. This notice is to state specific relocation work and schedule in relation to the construction work and schedule.

Deliverables:

- Draft and Final Utility Notices and supporting documentation

Contingency Task 10.3 Utility Relocation Facilitation

This task includes coordination to assist utility relocation efforts and coordinating relocation design impacts into the PS&E.

Consultant shall:

- Coordinate the development of each affected utility's relocation plan, to be completed before the 3rd Utility Notice.
- Upon request by utility contact(s), organize, conduct, prepare for, and attend utility coordination meetings with utilities within the Project limits up to six (6) meetings.
- Examine received utility relocation plans for completeness and accuracy. If relocation plans do not resolve utility conflict, provide comments to Utility for correction and re-submittal;
- Negotiate with each utility to produce a utility construction work schedule that conforms to the project construction schedule.
- Coordinate relocation into the project documents including plans, schedule, and special provisions.
- Provide Utility Reimbursement Review and Package for utility relocations following City's reimbursement process, which includes review of relocation documentation and supporting information for completeness, accuracy, relevance, and reasonableness. A written justification for rejection of incomplete, inaccurate, non-relevant, or unreasonable information shall be prepared and delivered by Consultant to the utility. For each utility that is eligible for reimbursement, Consultant shall provide a Reimbursement Package, which must include at a minimum:
    - Land deeds, easements, recorded surveys, X-permits, affidavits of prescription or estoppel rights, and service agreements
    - Property Rights Disposition declaration form
    - Reimbursement Information Form
    - Accepted Utility Relocation detail estimates
    - Utility's consultant agreements
    - Utility's construction PS&E contract bid documents
    - Evidence of the utility's construction bid advertisement and tabulation of responsive bids
    - Written request to include utility work into the Construction contract, and

    - Approved Utility relocation plan that clearly shows and defines reimbursable and non-reimbursable work Reimbursement Certification form
- Check for mathematical accuracy and verify correctness of up to 12 utility bills for reimbursable work. Consultant shall reject utility invoices that are lacking sufficient supporting documentation and provide written correspondence (email acceptable) to the utility, which outlines the insufficient or incorrect billing data. Consultant shall request an amended invoice to reflect the correction of billing errors.

Deliverables:

- Meeting agendas and meeting summary notes (MS Word and PDF format).
- Final utility relocation plan(s) (PDF format).
- Relocation information to support PS&E development and delivery.
- Documentation of exceptions.
- Utility Reimbursement Package or written justification documentation.
- Accepted Utility Billing Package and Payment Recommendation inter-office memo

TASK 11 PERMITS

Consultant shall provide services to support the successful acquisition of required permits. These permits may include but are not limited to Urban Forestry tree cutting permits, BDS land use review, site development permits, and design review. The Consultant shall:

- Meet with Agency staff to identify specific requirements as needed
- Coordinate with Agency staff to resolve permitting requirements.
- Identify permits required from other agencies (ODOT, other City Departments, and DEQ).
- Prepare project documents for permit submittal including plans, specifications and calculations if required.
- Incorporate modifications to the plans and provide formal response to Agency permit check sheet comments if required.

Deliverables:

- Meeting notes
- Permit applications and supporting documentation. Schedule as required by overall project timeline.
- Log of review comments and comment responses
- Revised drawings (effort included in PS&E Tasks)

Assumptions:

- Anticipated permits include: ODOT permit to construct; Agency permit for nighttime construction; detour permits. It is understood that the Agency has a blanket 1200-C permit.

TASK 12 RAILROAD COORDINATION

This task includes coordination with Union Pacific Railroad (UPRR) and ODOT Rail to obtain project review and approvals while meeting schedule requirements. Consultant shall:

- Conduct office coordination meetings and one site review with UPRR and ODOT Rail to review the conditions and proposed project.
- Assist with structural review process with UPRR and follow permitting process.
- Prepare, assemble and submit Concept, 30% and 100% Design submittals to UPRR.
- Coordinate with Railroad in advance of geotechnical soil borings
- Prepare the ODOT Rail Application, which will inform ODOT's Crossing Order application to UPRR. Consultant shall write the application, submit the draft application to the Agency and ODOT Rail, and make revisions based on input from the Agency and ODOT Rail. The Agency will submit completed application to ODOT Rail. ODOT Rail will issue the proposed order to the Railroad for review and approval.
- Coordinate with Railroad for the Construction and Maintenance Agreement (CMA). Consultant shall attempt to facilitate incorporating terms and conditions that the Agency desires into the CMA as the Railroad generates the CMA Agreement.
- Utilize the top of rail points and prepare top of rail profile for 1000' either side of proposed location, showing possible adjustments UP will request and showing clear distance to bridge structure.

- Assist with Right-of-Way Entry permit application between the construction contractor and Railroad.

Deliverables:

- Concept, 30% and Final Railroad Design Review submittals, along with supporting exhibits
- ODOT Rail Application (Draft & Final) (Crossing Order will be issued by ODOT Rail based on Consultant / Agency ODOT Rail Application)
- Top of Rail profile of existing UPRR.

- Comments on the Railroad's Draft and Final Railroad Construction & Maintenance Agreement (CMA)
- Meeting Minutes from meetings with Railroad

Assumptions:

- The Agency will prepare and submit the PE Agreement

TASK 13 BIDDING SUPPORT SERVICES

It is assumed that during the letting process, Plan Holders will ask clarifying questions or identify areas within the bid documents that need to be amended or otherwise responded to. Consultant shall provide assistance during bidding process for the construction contract including:

- Consultant shall attend and participate in Pre-Bid meeting with prospective Construction Contractors (CCs).
- Consultant shall respond to questions from prospective Construction Contractors (CCs) and suppliers regarding the Plans and Special Provisions that are fielded by the Agency. Responses to questions must be in writing and forwarded to the Agency for distribution within one (1) business day from the time a question is submitted by a CC.
- Consultant shall, during the bidding process, manage the communications with CCs and suppliers in a manner that provides that no CC or supplier is provided with information that could provide a bidding advantage or disadvantage to the CC or supplier. Consultant shall prepare a written log to document conversations and questions asked by CCs and/or suppliers and the answers provided in response. Consultant shall prepare a summary of the communications at the close of the bidding period.
- Consultant shall prepare an addendum to the bid documents as required during the bidding process. An allowance for supporting three (3) bid addenda is provided in the estimated budget for this SOW.

Deliverables:

- Written log of conversations, questions, and answers.
- Up to three (3) addenda

TASK 14 CONSTRUCTION MANAGEMENT

Provide construction assistance to Agency during construction stage of the project including for the construction contract including:

Key assumptions:

- Agency will perform the day-to-day construction inspections and administration. Consultant's role will be limited to Engineer of Record-type responsibilities.
- Construction duration: 18 months

14.1 General Construction Support & Meetings / Site Visits

Consultant shall remain in close communication with construction progress and coordinate with the Agency's Construction PM throughout construction. This includes monitoring project e-mails, schedules, and responding to general project needs related to design of the project.

Consultant shall attend and participate in the following meetings and site visits:

- Attend one preconstruction meeting. For estimating purposes it is assumed the following Consultant Staff will attend and the meeting will be three (3) hours in duration: (PM, Structural Lead, Civil Lead).

- Attendance at Weekly construction meetings and at key project milestones at the Project site during construction. For estimating purposes it is assumed the Consultant staff participation as outlined below and each meeting will be 1.5 hours.
    - PM (12)
    - Structural Lead (16)
    - Civil Lead (8)
    - Architectural Lead (8)
    - Traffic Lead (8)
    - Survey (2)
    - Geotechnical (included in Task 14.5 below)
    - Attend one (1) Substantial Completion walk-through. Participate in a Substantial Completion walk-through and Punch List. (2.5 hrs; PM, structural lead, architectural lead, civil lead, lighting lead)
    - Participate in one (1) final walk-through of the Project site to determine if the Contractor has met substantial completion of the project (2 hrs: PM, structural lead, architectural lead, civil lead)

Deliverables:

- Site Visit Reports
- Final Punchlist

14.2 Prepare design modification details due to changed conditions as required during construction

The Consultant team shall provide responses to requests and develop associated documents for design modifications throughout the construction phase due to changed conditions. For estimating purposes, it is assumed that there will be up to five (5) design modifications and each will require one CADD drawing.

Deliverables:

- Design Modification Packages

14.3 RFIs, Submittals and Shop Drawings Reviews

Consultant shall review and respond to RFI's from contractor, on a requested basis. For estimating purposes it is assumed Consultant will respond to up to fifty (50) RFIs.

Consultant shall review shop drawings, material submittals, test results, and other construction submittals as requested by Agency.

Deliverables:

- Written responses to RFIs
- Reviewed submittals and shop drawings

14.4 Project Change Orders

Consultant shall assist the Agency with evaluating and resolving potential construction change orders. This support will include reviewing contractor's claims and cost estimates and developing design documents to address change orders, at the direction of the Agency. For estimating purposes, each change order is assumed to require up to 16 hrs engineering + 4 hours drafting + 4 hours construction consultant.

Deliverables:

- Review comments on Contractor's change order requests
- Revised drawings and associated directions, if needed

14.5 Geotechnical Support

Consultant shall provide a geotechnical engineer on-site during to continuously observe the work during foundation installations and to periodically observe other ground work such as grading on the hillsides and establishment on subgrade. For estimating purposes, it is assumed geotechnical observation will be required on-site for up to 150 hours (3 weeks x 5 days/week x 10 hours / day).

Deliverables:

- Drilled shaft and pile driving installation logs and records

14.6 On-call Archaeological Support

Consultant shall provide an on-call archaeologist during ground disturbing activities. The Consultant's archaeologist will be present periodically to observe excavations and assess the potential presence of artifacts. If evidence of artifacts are discovered, Consultant's archaeologist will be continuously present to supervise subsequent excavations and recovery. For estimating purposes it is assumed that the Consultant's archaeologist will be on-call for up to two months and will be on-site for up to 80 hours.

14.7 As-constructed drawings

Consultant shall prepare CAD Record Drawings based on contractor's record drawing submittal.

Deliverables:

- As-constructed drawings in electronic format

14.8 Initial Bridge Load Rating Report

The proposed bridge is expected to be used as a potential access route for emergency vehicles. It is anticipated that the bridge will therefore need to be load rated. The purpose of this task is to complete a bridge load rating according to Agency and ODOT load rating standards.

Deliverables:

Tier 1 Bridge Load Rating

EXHIBIT B

Summary	KPFF PM & Structures	KPFF Civil-Survey	a2	ZGF	Kittleson	GRI	Alta	ES&A	AINW	Wiser	Michael Minor	Biella	Dave Place	MHA
Design	$ 484,632	$ 243,986	$ 342,303	$ 124,742	$ 223,263	$ 135,058	$ 59,235	$ 9,376	$ 33,007	$ 32,283	$ 3,780	$ 21,700	$ 34,770	$ 7,040
Construction	$ 138,579	$ 31,157	$ 10,420	$ 7,983	$ 23,955	$ 28,786	$ -	$ -	$ 10,369	$ -	$ -	$ 4,480	$ 7,410	$ 1,800
Contingency Tasks	$ 42,806	$ 119,408	$ 33,533	$ 31,892	$ (13,254)	$ 18,303	$ -	$ 9,593	$ 24,361	$ 2,724	$ 6,880	$ -	$ 19,000	$ -

Totals	All Team	DMWESB	
Design Phase	$ 1,755,173	$ 416,481	24%
Construction Phase	$ 264,940	$ 16,700	6%
Contingency Tasks	$ 295,246	$ 52,730	18%
Totals =	$ 2,315,359	$ 485,911	21%

City of Portland
Estimated Fees for Professional Services for - Sullivan's Crossing Project

Estimate Cost by Firm - (Fee and Expenses)

Task	KPFF Ptld & Structures		KPFF Civil-Survey		a2		ZGF		Kittelson		GRI		Alta		ES&A		ARW		Wiser		Michael Minor		Biella		Dave Place		MHA		Subtotals
	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	
Task 1 - Project Management	$ 99,886	$ -	$ 16278	$ -	$ 7,540	$ -	$ 16,118	$ -	$ 27,172.78	$ -	$ 14,336	$ -	$ 8,895	$ -	$ 1,330	$ 15	$ 3,596.56	$ 107.00	$ 11123.00	$ 198.00	$ 420.00	$ -	$ 420.00	$ -	$ 2,090.00	$ -	$ 600.00	$ 40.00	$ 210,165
Task 2 - Survey	$ 774	$ -	$ 91,848	$ 2,500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 95,122
2.1 - Preliminary Mapping for Alternatives Study	$ 774	$ -	$ 19,059	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 19,832.58
2.2 - Preferred Alternative Detailed Design Base Mapping	$ -	$ -	$ 54,071	$ 2,500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 56,570.80
2.3 - Pre and Post Construction Record of Survey	$ -	$ -	$ 18719	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 18,718.51
Task 3 - Public Involvement Support	$ 17,750	$ -	$ 5,362	$ -	$ 24,985	$ 800	$ 14,996	$ -	$ 1,862	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 65,755
3.1 Public Event Meeting Preparation, Participation, and Support	$ 15,647	$ -	$ 5,362	$ -	$ 3,560	$ -	$ 1,226	$ -	$ 1,862	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 27,656
3.2 Presentation Graphics	$ 1,817	$ -	$ -	$ -	$ 19,275	$ 800	$ 10,662	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 32,554
3.3 Type II Design Review Application	$ 286	$ -	$ -	$ -	$ 2,150	$ -	$ 3,109	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,545
Task 4 - Trail Alternatives Analysis	$ 5,880	$ -	$ 5,162	$ -	$ -	$ -	$ 5,596	$ -	$ -	$ -	$ -	$ -	$ 48,080	$ 700	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,360	$ -	$ -	$ -	$ -	$ -	$ 68,778
4.1 - Develop and Evaluate up to 3 trail alignment alts.	$ 4,416	$ -	$ 3,852	$ -	$ -	$ -	$ 5,596	$ -	$ -	$ -	$ -	$ -	$ 34,470	$ 650	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 48,983.97
4.2 Prepare Trails Alternative Analysis Report	$ 1,464	$ -	$ 1310	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,610	$ 50	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,360.00	$ -	$ -	$ -	$ -	$ -	$ 19,794.16
Task 5 – Preferred Alternative (PA) Report	$ 102,209	$ -	$ 30,215	$ -	$ 66,528	$ -	$ 51,223	$ -	$ 71,212	$ 4,000	$ -	$ -	$ 1,560	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,120	$ -	$ -	$ -	$ 336,067
5.1 Research and data Gathering	$ 6,227	$ -	$ 2,787	$ -	$ 1,300	$ -	$ 3,662	$ -	$ -	$ -	$ -	$ -	$ 1,560	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,535
5.2 - Alternatives Analysis Evaluation Criteria	$ 7,707	$ -	$ 1,014	$ -	$ 1,930	$ -	$ 949	$ -	$ 1,524	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13124
5.3 Bridge Alignment Alternatives Analysis	$ 18,491	$ -	$ 4,810	$ -	$ 5,080	$ -	$ 24,207	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,040	$ -	$ -	$ -	$ 55628
5.4 Bridge Type and Size Alternatives Analysis	$ 58,972	$ -	$ 14,466	$ -	$ 56,623	$ -	$ 16255	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,080	$ -	$ -	$ -	$ 152395
5.5 (See Contingency Tasks)	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
5.6 Active Transportation Analysis and Conceptual Design	$ 808	$ -	$ 1,347	$ -	$ 705	$ -	$ -	$ -	$ 10,445	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,305
5.7 Preferred Sullivan's Gulch Trail Alignment	$ 2,460	$ -	$ 1,254	$ -	$ -	$ -	$ 6,150	$ -	$ 1,101	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10965
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	$ 2355	$ -	$ 3,431	$ -	$ -	$ -	$ -	$ -	$ 56,825	$ 4,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 66,611
5.9 Preferred Alternatives (PA) Report	$ 5,190	$ -	$ 1,107	$ -	$ 890	$ -	$ -	$ -	$ 1,317	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,504
Task 6 – Preliminary Design	$ 47,389	$ -	$ 16,594	$ -	$ 41,415	$ 150	$ 11,800	$ -	$ 3,331	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,360	$ -	$ 7,600	$ -	$ -	$ -	$ 131,639
6.1 Advance PA Design to 30%	$ 47,389	$ -	$ 16,594	$ -	$ 41,415	$ 150	$ 11,800	$ -	$ 3,331	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,360	$ -	$ 7,600	$ -	$ -	$ -	$ 131,639
Task 7 – Final Design	$ 193,378	$ -	$ 52,923	$ -	$ 200,135	$ 750	$ 25,008	$ -	$ 113,624	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,560	$ -	$ 15,960	$ -	$ -	$ -	$ 616,338
7.1 60% PS&E	$ 74766	$ -	$ 19,029	$ -	$ 84,340	$ 200	$ 16,471	$ -	$ 28,396	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,600	$ -	$ 9,120	$ -	$ -	$ -	$ 237,921
7.2 90% PS&E	$ 77,381	$ -	$ 16,675	$ -	$ 76,600	$ 275	$ 6,321	$ -	$ 48,665	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,920	$ -	$ 2,280	$ -	$ -	$ -	$ 232,117
7.3 Draft Final PS&E	$ 26,229	$ -	$ 10,090	$ -	$ 29,080	$ -	$ -	$ -	$ 27206	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,800	$ -	$ 4,560	$ -	$ -	$ -	$ 99,965
7.4 Final (100%) PS&E - Signed and Stamped	$ 15,003	$ -	$ 7,128	$ -	$ 10,115	$ 275	$ 2,216	$ -	$ 9,357	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,240	$ -	$ -	$ -	$ -	$ -	$ 46,334
Task 8 – Environmental Services	$ 7,441	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,584	$ 11,760	$ -	$ -	$ 7,860	$ 170	$ 29,285	$ 18	$ -	$ -	$ 3,360	$ -	$ -	$ -	$ -	$ -	$ 6,300	$ 100	$ 86,880
8.1 Noise Analysis	$ 1,802	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,360	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,162
8.2 Cultural Resources	$ 774	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 29,285	$ 18	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 30,077
8.3 Wetland and Biological Resources	$ 1,516	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ 7,860	$ 170	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,546
8.4 Hazardous Materials	$ 1,802	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,584	$ 11,760	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 34,146
8.5 Tree Survey	$ 1,548	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,300	$ 100	$ 7,948

City of Portland
Estimated Fees for Professional Services for - Sullivan's Crossing Project

	Estimate Cost by Firm - (Fee and Expenses)																										
	KPFF PM & Structures		KPFF Civil-Survey		a2		ZGF		Kittleson		GRI		Alta		ESBA		AINW		Wiser		Michael Minor		Biella		Dave Place		
	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Subtotals
Task 9 – Geotechnical Services	$ 3,543	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 37,526	$ 50,852	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 91,921
Task 9 – Geotechnical Services	$ 3,543	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 37,526	$ 50,852	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 91,921
Task 10 – Utility Coordination	$ 808	$ -	$ 10,661	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,469
Task 10 - Utility Coordination	$ 808	$ -	$ 10,661	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,469
Task 11 – Permits	$ 808	$ -	$ 12,444	$ -	$ -	$ -	$ -	$ -	$ 1,862	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,113
Task 11 - Permits	$ 808	$ -	$ 12,444	$ -	$ -	$ -	$ -	$ -	$ 1,862	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,113
Task 12 – Railroad Coordination	$ 4,767	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,962	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,729
Task 12 railroad Coordination	$ 4,767	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,962	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,729
Subtotals Design / Permitting	$ 484,632	$ -	$ 241,486	$ 2,500	$ 340,603	$ 1,700	$ 124,742	$ -	$ 219,263	$ 4,000	$ 72,446	$ 62,612	$ 58,535	$ 700	$ 9,191	$ 185	$ 32,882	$ 125	$ 32,085	$ 198	$ 3,780	$ -	$ 21,700	$ -	$ 34,770	$ -	$ 6,900	$ 140	$ 1,755,173
Totals Design / Permitting by Firm	$ 484,632		$ 243,986		$ 342,303		$ 124,742		$ 223,263		$ 135,058		$ 59,235		$ 9,376		$ 33,007		$ 32,283		$ 3,780		$ 21,700		$ 34,770		$ 7,040		
Total Design / Permitting	$ 1,755,173																												
Task 13 – Bid Phase Assistance	$ 6,786	$ -	$ 7,036	$ -	$ -	$ -	$ -	$ -	$ 7,556	$ -	$ 2,987	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 24,365
Task 14 – Construction Management	$ 131,794	$ -	$ 24,121	$ -	$ 10,420	$ -	$ 7,983	$ -	$ 16,399	$ -	$ 25,799	$ -	$ -	$ -	$ -	$ -	$ 10,342	$ 27	$ -	$ -	$ -	$ -	$ 4,480	$ -	$ 7,410	$ -	$ 1,800	$ -	$ 240,575
14.1 General Construction Support / Meetings / Site Visits	$ 30,995	$ -	$ 2,187	$ -	$ 1,560	$ -	$ 2,770	$ -	$ 2,067	$ -	$ 2,227	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,120	$ -	$ 3,610	$ -	$ 1,800	$ -	$ 48,337
14.2 Prepare design Modifications	$ 18,029	$ -	$ 3,806	$ -	$ 3,260	$ -	$ 1,642	$ -	$ 6,430	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 33,167
14.3 RFIs, Submittals and Shop Drawings	$ 47,735	$ -	$ 10,854	$ -	$ 5,600	$ -	$ 3,571	$ -	$ 3,012	$ -	$ 2,592	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,360	$ -	$ -	$ -	$ -	$ -	$ 76,723
14.4 Project Change orders	$ 10,511	$ -	$ 2,364	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,800	$ -	$ -	$ -	$ 16,674
14.5 Geotechnical Support	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,980	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,980
14.6 On-Call Archaeological Support	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,342	$ 27	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,369
14.7 As-constructed Drawings	$ 11,416	$ -	$ 4,911	$ -	$ -	$ -	$ -	$ -	$ 4,890	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 21,217
14.8 Initial Bridge Load Rating	$ 13,108	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,108
Subtotals Bid / Construction	$ 138,579	$ -	$ 31,157	$ -	$ 10,420	$ -	$ 7,983	$ -	$ 23,955	$ -	$ 28,786	$ -	$ -	$ -	$ -	$ -	$ 10,342	$ 27	$ -	$ -	$ -	$ -	$ 4,480	$ -	$ 7,410	$ -	$ 1,800	$ -	$ 264,940
Totals Bid / Construction by Firm	$ 138,579		$ 31,157		$ 10,420		$ 7,983		$ 23,955		$ 28,786		$ -		$ -		$ 10,369		$ -		$ -		$ 4,480		$ 7,410		$ 1,800		
Totals Bid / Construction	$ 264,940																												
Total Non-Contingency Tasks by Firm	$ 623,211		$ 275,143		$ 352,723		$ 132,725		$ 247,218		$ 163,845		$ 59,235		$ 9,376		$ 43,376		$ 32,283		$ 3,780		$ 26,180		$ 42,180		$ 8,840		
Grand Total Non-Contingency Tasks	$ 2,020,113																												

Contingency Tasks

	KPFF PM & Structures Labor	Expenses	KPFF Civil-Survey Labor	Expenses	a2 Labor	Expenses	ZGF Labor	Expenses	Kittleson Labor	Expenses	GRI Labor	Expenses	Alta Labor	Expenses	ESBA Labor	Expenses	AINW Labor	Expenses	Wiser Labor	Expenses	Michael Minor Labor	Expenses	Biella Labor	Expenses	Dave Place Labor	Expenses	MHA Labor	Expenses	Subtotals
Task C1.6 Additional Project Meetings	$ 3,711	$ -	$ -	$ -	$ -	$ -	$ -	$ -	(negative) $ 1,862	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,573
Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp. Constr. Easements	$ 429	$ -	$ 11,156	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,585
Task C2.5 Construction Staking	$ -	$ -	$ 42,755	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 42,755
Task C3.1.1 Public Involvement - Additional Community Meeting	$ 1,666	$ -	$ 1,160	$ -	$ 4,950	$ 16,000	$ 638	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 24,415
[illegible] Additional Type and Size Alt. Analysis	$ 13,054	$ -	$ 1,734	$ -	$ 12,583	$ -	$ 7,506	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,500	$ -	$ -	$ -	$ 44,376
[illegible] Higher Level of Effort for Bridge [illegible] Analysis	$ 19,938	$ 30	$ -	$ -	$ -	$ -	$ 14,718	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,500	$ -	$ -	$ -	$ 44,186
[illegible] Design Alternate [illegible]	$ 774	$ -	$ 11,778	$ -	$ -	$ -	$ 4,207	$ -	$ 1,879	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 18,638
[illegible] Design Alternate [illegible]	$ 774	$ -	$ 21,590	$ -	$ -	$ -	$ 4,823	$ -	$ (16,995)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,192
[illegible]	$ 715	$ -	$ 1,884	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,880	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,479
[illegible] Application	$ 286	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,857	$ 9	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,152

City of Portland
Estimated Fees for Professional Services for -
Sullivan's Crossing Project

	Estimate Cost by Firm - (Fee and Expenses)																														
	KPFF PM & Structures		KPFF Civil-Survey		a2		EGF		Kittelson		GRI		Alta		ES&A		AHW		Wilsey		Michael Minor		Biella		Dave Place		MHA		Subtotals
	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses	Labor	Expenses			
Task C8.2.2 Determination of Eligibility and Finding of Effect	$ 286	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,486	$ 9	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,781		
Task C8.3.2 Permit Acquisition and Environmental Compliance	$ 1,144	$ -	$ 3,404	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,593	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,141		
Task C9.2.1 Additional Soil Boring	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,658	$ 13,645	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,724	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 21,027		
Task C10.3 Utility Relocation Verification	$ -	$ -	$ 23,948	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 23,948		
Subtotals Contingency Tasks:	$ 42,776	$ 30	$ 119,408	$ -	$ 17,533	$ 16000	$ 31,892	$ -	$ (13,254)	$ -	$ 4,658	$ 13,645	$ -	$ -	$ 9,593	$ -	$ 24,343	$ 10	$ 2,724	$ -	$ 6,660	$ -	$ -	$ -	$ 19,000	$ -	$ -	$ -	$ 295,249		
Totals Contingency Tasks by Firm:	$ 42,808		$ 119,408		$ 33,533		$ 31,892		$ (13,254)		$ 18,303		$ -		$ 9,593		$ 24,361		$ 2,724		$ 6,660		$ -		$ 19,000		$ -					
Totals w/ Contingency Tasks by Firm:	$ 666,017		$ 394,551		$ 186,255		$ 164,617		$ 233,964		$ 182,147		$ 59,235		$ 18,969		$ 67,737		$ 35,007		$ 10,660		$ 26,160		$ 61,180		$ 8,840					
Grand Total w/ Contingency Tasks:	$ 2,315,959																														

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

KPFF Consulting Engineers
February 12, 2014
Revised Feb. 24, 2014

	KPFF PM and Structures												
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00				
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	**Hours**	**Labor Cost**	**Expenses**	**Notes:**
Task 1 - Project Management													
1.1 Project Management & Coordination	80	80								160	$ 27,592	$ -	
1.2 Meetings during Design (see below)										0	$ -	$ -	
1.3 QC and QA							80			80	$ 10,400	$ -	
1.4 Project Schedule and Schedule updates	5	40								45	$ 6,730	$ -	
1.5 Monthly Invoices & Progress Reports	40	20								60	$ 10,936	$ -	
1.2 - Meetings during Design	**97**	**116**	**39**	**0**	**0**	**38**	**0**	**0**	**0**	**290**	$ 44,228	$ -	
1.2.1 Kickoff	4	5				2				11	$ 1,713		
1.2.2 Work Plan	6	7	4			2				19	$ 2,858	$ -	
1.2.3 Project Development Team (PDT) Meetings	22	26	9			8				65	$ 9,946	$ -	
1.2.4 General Project Design Coodination Meetings	65	78	26			26				195	$ 29,712	$ -	
Subtotal:	**222**	**256**	**39**	**0**	**0**	**38**	**80**	**0**	**0**	**635**	$ 99,886	$ -	
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	1	4	0	0	0	0	0	0	0	5	$ 774	$ -	
Coordinate survey limits	1	4								5	$ 774	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**1**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	$ 774	$ -	
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	**52**	**36**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	88	$ 15,647	$ -	
Prepare for and attend 2 major public meetings	12	8								20	$ 3,567	$ -	CT & SW
Participate in preparatory meetings with PBOT	4	4								8	$ 1,380	$ -	CT & SW
Prepare for and attend community stakeholder meetings	36	24								60	$ 10,700	$ -	CT & SW (12 mtgs)
										0	$ -	$ -	
3.2 Presentation Graphics	**9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	9	$ 1,817	$ -	
3.2.1 Review and comment on draft Artist Sketches and Diagrams	2									2	$ 404	$ -	
3.2.2 Review and comment on draft Demonstration Boards	2									2	$ 404	$ -	
3.2.3 Review and comment on draft Physical Models	1									1	$ 202	$ -	
3.2.4 Review and comment on Static Visual Modeling / Rendering	2									2	$ 404	$ -	
3.2.5 Review and comment on Dynamic Visual Modeling / Rendering	2									2	$ 404	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
3.3 Type II Design Review Application	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	2	$ 286	$ -	
3.3 Review and comment on draft Type II design review application		2								2	$ 286	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**61**	**38**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**99**	$ 17,750	$ -	
Task 4 - Trail Alternatives Analysis													
4.1 - Develop and Evaluate up to 3 trail alignment alts.	**7**	**21**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**28**	$ 4,416	$ -	
Meet with Agency to ID 3 trail alignments & eval. Criteria	3	3								6	$ 1,035	$ -	
Coordinate and communicate with Trails subconsultant	3	12								15	$ 2,322	$ -	
Review and comment on Draft Trail eval criteria memo	1	2								3	$ 488	$ -	
provide cost estimates for structural related trail elements		4								4	$ 572	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

KPFF Consulting Engineers
February 12, 2014
Revised Feb. 24, 2014

	KPFF PM and Structures											
Hourly Rate:	$201.90	$143.00	$114.00	$89.50	$102.00	$95.00	$130.00	$0.00	$0.00			
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	**Hours**	**Labor Cost**	**Expenses**	**Notes:**
4.2 Prepare Trails Alternatve Analysis Report	3	6	0	0	0	0	0	0	0	9	$ 1,464	$ -	
Review and comment on draft and final reports	1	4								5	$ 774	$ -	
Meet with Agency to review draft report	2	2								4	$ 690	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -		
Subtotal:	**10**	**27**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**37**	**$ 5,880**	**$ -**	
Task 5 – Preferred Alternative (PA) Report													
5.1 Research and data Gathering	13	22	4	0	0	0	0	0	0	39	$ 6,227	$ -	
Prepare & submit design criteria memo	1	8								9	$ 1,346	$ -	
Conduct site visits and phtograph existing site conditions	2	4	4							10	$ 1,432	$ -	
Engage property owners and stakeholders	10	10								20	$ 3,449	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.2 - Alternatives Analysis Evaluation Criteria	8	24	20	0	0	4	0	0	0	56	$ 7,707	$ -	
Develop updated bridge eval. criteria	4	16	16							36	$ 4,920	$ -	
Review and comment on traffic and active transpo. Evaluation criteria	2	0								2	$ 404	$ -	
Meet with agency to review eval. Criteria (see Task 1.2.3)	0									0	$ -	$ -	
Develop and submit Bridge Evaluation Criteria Memos	2	8	4			4				18	$ 2,384	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.3 Bridge Alignment Alternatives Analysis	15	60	50	0	6	6	0	0	0	137	$ 18,491	$ -	
Analyze potential bridge alignments	2	6	6		0					14	$ 1,946	$ -	
Develop alignment drawings					4					4	$ 408	$ -	
Identify most feasible options	2	4	4							10	$ 1,432	$ -	
Analyze 1 bridge type for each alignment option	6	30	40							76	$ 10,061	$ -	
Compare and contrast alignments against established criteria	2	10								12	$ 1,834	$ -	
Prepare and submit draft bridge alignments memo	2	6			0	4				12	$ 1,642	$ -	
Meet with agency to review draft memo (see tack 1.2.4)										0	$ -	$ -	
Finalize alignments memo	1	4			2	2				9	$ 1,168	$ -	
										0	$ -	$ -	
5.4 Bridge Type and Size Alternatives Analysis	31	194	118	100	7	9	0	0	0	459	$ 58,972	$ -	
Analyze potential bridge types and sizes	10	60	40	60	2					172	$ 21,333	$ -	
Identify the 4 most feasible options and review with Agency	2	4	4							10	$ 1,432	$ -	
Meet with Agency to review short-listed bridge types (PDT #3)										0	$ -	$ -	
Advance design of short-listed bridges to 15% design	4	20	40	40	0					104	$ 12,208	$ -	
Coordinate with other project disciplines	4	8								12	$ 1,952	$ -	
Compare and contrast bridge types / sizes against eval. Criteria	4	60	20							84	$ 11,668	$ -	
Develop 15% drawings for each short-listed bridge	2	8	8		4					22	$ 2,868	$ -	
Develop conceptual rough order of magnitude cost estimates	2	12	6		0					20	$ 2,804	$ -	
Prepare and submit draft bridge type and size report	2	16				6				24	$ 3,262	$ -	
Incorporate review comments and finalize T&S report	1	6			1	3				11	$ 1,447	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.5 Fee Contingency Finish										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	

	KPFF PM and Structures												
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00				
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
5.6 Active Transportation Analysis and Conceptual Design	4	0	0	0	0	0	0	0	0	4	$ 808	$ -	
Review and comment on draft analyses and designs	4									4	$ 808	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.7 Preferred Sullivan's Gulch Trail Alignment	2	8	8	0	0	0	0	0	0	18	$ 2,460	$ -	
Compare and contrast trail alternatives in relation to bridge		4	4							8	$ 1,028	$ -	
analyze and evalluate trail construction methods		4	4							8	$ 1,028	$ -	
Review and comment on draft memo	2									2	$ 404	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	6	8	0	0	0	0	0	0	0	14	$ 2,355	$ -	
										0	$ -	$ -	
review and comment on draft traffic design memo & TMP	6	0								6	$ 1,211	$ -	
provide project data to Traffic Designer for TMP		8								8	$ 1,144	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.9 Preferred Alternatives (PA) Report	4	24	0	0	0	10	0	0	0	38	$ 5,190	$ -	
Assemble various discipline memos into compiled PA Report	2	16				8				26	$ 3,452	$ -	
Submit Draft PA Report, respond to comments and finalize	2	8				2				12	$ 1,738	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**83**	**340**	**200**	**100**	**13**	**29**	**0**	**0**	**0**	**765**	**$ 102,209**	**$ -**	

Task 6 – Preliminary Design

6.1 Advance PA Design to 30%	28	104	124	120	4	4	0	0	0	384	$ 47,389	$ -	
Advance bridge analysis from 15% to 30%	10	80	120	120	0					330	$ 39,079	$ -	
advance bridge drawings from 15% to 30%					4					4	$ 408	$ -	12 sheets
update structural cost estimate items for 30%		12	4							16	$ 2,172	$ -	
Compile overall cost estimate	2	10								12	$ 1,834	$ -	
Prepare 30% design narrative	8	2								10	$ 1,901	$ -	
Assemble and submit 30% design package	8					4				12	$ 1,995	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**28**	**104**	**124**	**120**	**4**	**4**	**0**	**0**	**0**	**384**	**$ 47,389**	**$ -**	

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

KPFF Consulting Engineers
February 12, 2014
Revised Feb. 24, 2014

	KPFF PM and Structures												
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00				
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	**Hours**	**Labor Cost**	**Expenses**	**Notes:**
Task 7 – Final Design													
7.1 60% PS&E	44	174	248	120	4	4	0	0	0	594	$ 74,766	$ -	
Respond to comments on 30% plans and estimate	2	6	6							14	$ 1,946	$ -	
Advance bridge analysis from 30% to 60%	20	120	240	120						500	$ 60,498	$ -	
advance bridge drawings from 30% to 60%					4					4	$ 408	$ -	
update structural cost estimate items for 60%		8	2							10	$ 1,372	$ -	
Compile overall cost estimate	2	8								10	$ 1,548	$ -	
Asssit with Constructability review	2	12								14	$ 2,120	$ -	
Assist with draft construction schedule	1	4								5	$ 774	$ -	
Develop draft structural technical specifications	1	16								17	$ 2,490	$ -	
Coordinate with Agency on R/W and easement needs	8									8	$ 1,615	$ -	
Assemble and submit 60% design package	8					4				12	$ 1,995	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
7.2 90% PS&E	31	204	253	120	4	8	0	0	0	620	$ 77,381	$ -	
Respond to comments on 60% plans and estimate	2	6	6							14	$ 1,946	$ -	
Advance bridge analysis from 60% to 90%	16	160	240	120						536	$ 65,410	$ -	
advance bridge drawings from 60% to 90%					4					4	$ 408	$ -	
update structural cost estimate items for 90%		6	1							7	$ 972	$ -	
Compile overall cost estimate	2	8								10	$ 1,548	$ -	
Asssit with Constructability review	2	8								10	$ 1,548	$ -	
Update construction schedule		2								2	$ 286	$ -	
Develop 90% structural technical specifications	1	12								13	$ 1,918	$ -	
Assemble and submit key structural calculations		2	6			4				12	$ 1,350	$ -	
Assemble and submit 90% design package	8					4				12	$ 1,995	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
7.3 Draft Final PS&E	14	66	60	60	2	10	0	0	0	212	$ 26,229	$ -	
Respond to comments on 90% plans and estimate	2	6	6							14	$ 1,946	$ -	
Advance bridge analysis from 90% to draft final		40	50	60						150	$ 17,390	$ -	
advance bridge drawings from 90% to draft final					2					2	$ 204	$ -	
update structural cost estimate items for draft final	1	4								5	$ 774	$ -	
Compile overall cost estimate	1	4								5	$ 774	$ -	
Update construction schedule		2								2	$ 286	$ -	
Draft final structural technical specifications		8								8	$ 1,144	$ -	
Assemble and submit key structural calculations		2	4							6	$ 742	$ -	
Assemble and submit Draft final design package	10					10				20	$ 2,969	$ -	
										0	$ -	$ -	
7.4 Final (100%) PS&E - Signed and Stamped	13	38	30	20	2	14	0	0	0	117	$ 15,003	$ -	
Respond to any comments on Draft Final & update PS&E	5	30	30	20	2					87	$ 10,914	$ -	
Assemble and submit signed and stamped Final PS&E	8	4				10				22	$ 3,137	$ -	
Assemble and submit final review and comment logs & Quality documentation		4				4				8	$ 952	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	

	KPFF PM and Structures											
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00			
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Subtotal:	102	482	591	320	12	36	0	0	0	1543	$ 193,378	$ -	
Task 8 – Environmental Services													
8.1 Noise Analysis	1	8	4	0	0	0	0	0	0	13	$ 1,802	$ -	
provide project information for noise analysis	0	4	4							8	$ 1,028	$ -	
review and comment on draft and final noise reports	1	4								5	$ 774	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
8.2 Cultural Resources	1	4	0	0	0	0	0	0	0	5	$ 774	$ -	
										0	$ -	$ -	
review and comment on draft and final cult. Resources reports	1	4								5	$ 774	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
8.3 Wetland and Biological Resources	1	6	4	0	0	0	0	0	0	11	$ 1,516	$ -	
review and comment on natural resources tech memo	1	2								3	$ 488	$ -	
provide project information for natural resources evaluations		4	4							8	$ 1,028	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
8.4 Hazardous Materials	1	8	4	0	0	0	0	0	0	13	$ 1,802	$ -	
provide project information for haz mat analysis		4	4							8	$ 1,028	$ -	
review and comment on draft and final reports	1	4								5	$ 774	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
8.5 Tree Survey	2	8	0	0	0	0	0	0	0	10	$ 1,548	$ -	
provide project information for tree survey and reporting		4								4	$ 572	$ -	
review and comment on draft and final reports	2	4								6	$ 976	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	6	34	12	0	0	0	0	0	0	52	$ 7,441	$ -	
Task 9 – Geotechnical Services													
Task 9 – Geotechnical Services	1	13	13	0	0	0	0	0	0	27	$ 3,543	$ -	
										0	$ -	$ -	
provide project information for geotechnical investigations		4	4							8	$ 1,028	$ -	
review and comment on draft and final reports	1	6	3							10	$ 1,402	$ -	
develop and provide prelim foundation requirements		3	6							9	$ 1,113	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	

	KPFF PM and Structures												
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00				
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
										0	$ -	$ -	
Subtotal:	**1**	**13**	**13**	**0**	**0**	**0**	**0**	**0**	**0**	**27**	**$ 3,543**	**$ -**	
Task 10 – Utility Coordination													
Task 10 - Utility Coordination	4	0	0	0	0	0	0	0	0	4	$ 808	$ -	
										0	$ -	$ -	
review deliverables	4									4	$ 808	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**$ 808**	**$ -**	
Task 11 – Permits													
Task 11 - Permits	4	0	0	0	0	0	0	0	0	4	$ 808	$ -	
										0	$ -	$ -	
review deliverables	4	0								4	$ 808	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**$ 808**	**$ -**	
Task 12 – Railroad Coordination													
Task 12 railroad Coordination	13	9	0	0	0	9	0	0	0	31	$ 4,767	$ -	
Prepare for and participate in railroad site visit	3	3								6	$ 1,035	$ -	
Assemble Concept , 30% and 100% design submittals for RR	6	6				9				21	$ 2,924	$ -	
Review ODOT Rail Application	2									2	$ 404	$ -	
Review Railroad Construction and Maintenance Agreement	2									2	$ 404	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**13**	**9**	**0**	**0**	**0**	**9**	**0**	**0**	**0**	**31**	**$ 4,767**	**$ -**	
Subtotals Design and Permitting:	**535**	**1307**	**979**	**540**	**29**	**116**	**80**	**0**	**0**	**3586**	**$ 484,632**	**$ -**	

Total Estimated Labor and Expenses Design / Permitting: $ 484,632

	KPFF PM and Structures												
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00				
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 6	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 13 – Bid Phase Assistance													
Task 13 Bid Assistance	15	11	12	0	6	0	0	0	0	46	$ 6,786	$ -	
participate in pre-bid meeting	3	3								6	$ 1,035	$ -	
respond to bidder questions / maintain written log	6	4								12	$ 2,187	$ -	
prepare addenda #1	1	2	6		4					13	$ 1,580	$ -	
prepare addenda #2	1	2	6		4					13	$ 1,580	$ -	
review addenda #3 (assumed non-structural)	2									2	$ 404	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**15**	**11**	**12**	**0**	**8**	**0**	**0**	**0**	**0**	**46**	**$ 6,786**	**$ -**	
Task 14 – Construction Management													
14.1 General Construction Support / Meetings / Site Visits	131	33	0	0	0	0	0	0	0	163	$ 30,995	$ -	
Coordinate subs and maintain communication with Agency	80									80	$ 16,152	$ -	
Review and prepare monthly invoices	24									24	$ 4,846	$ -	
Attend pre-con meeting	4	4								8	$ 1,380	$ -	
Attend weekly construction meetings	18	24								42	$ 7,066	$ -	
Attend substantial completion walk-thru	2.5	2.5								5	$ 862	$ -	
Participate in 1 final walk-thru	2	2								4	$ 690	$ -	
14.2 Prepare design Modifications	10	60	30	0	30	10	0	0	0	140	$ 18,029	$ -	
Prepare design modification #1	2	12	6		8	2				28	$ 3,606	$ -	
Prepare design modification #2	2	12	6		6	2				28	$ 3,606	$ -	
Prepare design modification #3	2	12	6		6	2				28	$ 3,606	$ -	
Prepare design modification #4	2	12	6		6	2				28	$ 3,606	$ -	
Prepare design modification #5	2	12	6		6	2				26	$ 3,606	$ -	
										0	$ -	$ -	
14.3 RFIs, Submittals and Shop Drawings	50	90	130	100	0	0	0	0	0	370	$ 47,735	$ -	
Review and respond to 30 structural RFIs	6	30	30	20						86	$ 10,911	$ -	2.5 hrs/rfi
Coordinate responses to 20 non-structural RFIs	10									10	$ 2,019	$ -	
Provide review for structural shop drawings and submittals	4	60	100	80						244	$ 28,748	$ -	
Coordinate non-structural shop drawings and submittals	30									30	$ 6,057	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
14.4 Project Change orders	12	48	0	0	12	0	0	0	0	72	$ 10,511	$ -	
Evaluate and assist Agency inresolving change order #1	4	16			4					24	$ 3,504	$ -	
Evaluate and assist Agency inresolving change order #2	4	16			4					24	$ 3,504	$ -	
Evaluate and assist Agency inresolving change order #3	4	16			4					24	$ 3,504	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
No work										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
No work										0	$ -	$ -	

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Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00				
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
14.7 As-constructed Drawings	2	4	20	0	80	0	0	0	0	106	$ 11,416	$ -	
Prepare Structural CAD Record Drawings	2	4	20		80					106	$ 11,416	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
14.8 Initial Bridge Load Rating	4	12	76	0	0	12	6	0	0	110	$ 13,108	$ -	
Complete Tier 1 bridge load rating	2	8	60				6			76	$ 9,168	$ -	
Assemble and submit Tier 1 Load Rating package	2	4	16			12				34	$ 3,940	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**209**	**247**	**256**	**100**	**122**	**22**	**6**	**0**	**0**	**961**	**$ 131,794**	**$ -**	
Subtotals Bid / Construction:	**224**	**258**	**268**	**100**	**130**	**22**	**6**	**0**	**0**	**1007**	**$ 138,579**	**$ -**	
										Total Estimated Budget - Bid / Construction Phase:	**$ 138,579**		
Totals:	**759**	**1565**	**1247**	**640**	**159**	**138**	**86**	**0**	**0**	**4593**	**$ 623,211**	**$ -**	
										Total Estimated Budget - Non-contingency Tasks:	**$ 623,211**		

	KPFF PM and Structures												
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00				
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Contingency Tasks													
Task C1.6 Additional Project Meetings													
Prepare for, attend, & mtg minutes for additional Project Team Meeting #1	2	3				1				6	$ 928	$ -	
Prepare for, attend, & mtg minutes for additional Project Team Meeting #2	2	3				1				6	$ 928	$ -	
Prepare for, attend, & mtg minutes for additional Project Team Meeting #3	2	3				1				6	$ 928	$ -	
Prepare for, attend, & mtg minutes for additional Project Team Meeting #4	2	3				1				6	$ 928	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**8**	**12**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**24**	**$ 3,711**	**$ -**	
Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements													
										0	$ -	$ -	
Review deliverables	-	3.0								3	$ 429	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**$ 429**	**$ -**	
Task C2.5 Construction Staking													
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$ -**	**$ -**	
Task C3.1.1 Public Involvement - Additional Community Meeting													
prepare for and attend one additional public event	4.0	6.0								10	$ 1,666	$ -	
										0	$ -	$ -	
										0	$ -	$ -	

	KPFF PM and Structures											
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00			
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Subtotal:	4	6	0	0	0	0	0	0	0	10	$ 1,666	$ -	
Task C5.4.1 Additional Type and Size Alt. Analysis													
Advance design of 1 add'l short-listed bridge to 15% design	4	20	40							64	$ 8,228	$ -	
Compare and contrast 1 additional bridge type / size against eval. Criteria		6								6	$ 858	$ -	
Develop 15% drawings for 1 add'l short-listed bridge					16					16	$ 1,632	$ -	
Develop conceptual rough order of magnitude cost estimate for 1 add'l bridge		8	2							10	$ 1,372	$ -	
Incorporate findings from 1 add'l bridge alt. into draft bridge type and size repo	1	4				2				7	$ 964	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	5	38	42	0	16	2	0	0	0	103	$ 13,054	$ -	
Task C5.5 Higher Level of Effort for Bridge Alt. Analysis													
										0	$ -	$ -	
Allowance	20	80			40	4				144	$ 19,938	$ 30	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	20	80	0	0	40	4	0	0	0	144	$ 19,938	$ 30	
Task C6.2 30% Design Alternate Intersection Design													
										0	$ -	$ -	
Review deliverables	1	4								5	$ 774	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	1	4	0	0	0	0	0	0	0	5	$ 774	$ -	
Task C7.5 Final Design- Alternate Intersection Design													
										0	$ -	$ -	
Review deliverables	1	4								5	$ 774	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	1	4	0	0	0	0	0	0	0	5	$ 774	$ -	
Task C8.1.2 Prepare for and Attend Noise Review Board Meeting													
										0	$ -	$ -	
Review and Comment on Noise Review Board presentation materials	0	2								2	$ 286	$ -	
Attend Noise Review board Meeting	0	3								3	$ 429	$ -	
										0	$ -	$ -	

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

KPFF Consulting Engineers
February 12, 2014
Revised Feb. 24, 2014

	KPFF PM and Structures												
Hourly Rate:	$201.90	$143.00	$114.00	$99.50	$102.00	$95.00	$130.00	$0.00	$0.00				
Staff Position:	PM and PIC	and Asst PM	DE	DE	CADD	Admin	Quality Mgr	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Subtotal:	0	5	0	0	0	0	0	0	0	5	$ 715	$ -	
Task C8.2 .1 Shovel Testing and SHPO permit Application													
										0	$ -	$ -	
Review deliverables		2								2	$ 286	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	2	0	0	0	0	0	0	0	2	$ 286	$ -	
Task C8.2 .2Determination of Eligibility and Finding of Effect													
										0	$ -	$ -	
Review deliverables		2								2	$ 286	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	2	0	0	0	0	0	0	0	2	$ 286	$ -	
Task C8.3.2 Permit Acquisition and Environmental Compliance													
										0	$ -	$ -	
Review deliverables		8								8	$ 1,144	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	8	0	0	0	0	0	0	0	8	$ 1,144	$ -	
Task C9.2 .1 Additional Soil Boring													
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
Task C10.3 Utility Relocation Facilitation													
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
Subtotals Contingency Tasks:	39	164	42	0	56	10	0	0	0	311	$ 42,776	$ 30	

Total Estimated Budget - Contingency Tasks: $ 42,806

Grand Total Budget - w/ Contingency Tasks: $ 666,017

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

KPFF Consulting Engineers
February 12, 2014

	KPFF Civil / Survey											
Hourly Rate:	$193.41	$120.00	$95.00	$97.77	$75.00	$193.41	$100.38	$155.55	$90.00			
Staff Position:	Principal / PM	Proj. Engineer	Design Eng / Designer	CADD	Project Admin	Svy Manager	Project Surveyor	2-Person Field Crew	Survey Tech.	Hours	Labor Cost	Expenses
Task 1 - Project Management												
1.1 Project Management & Coordination										0	$ -	$ -
1.2 Meetings during Design (see below)										0	$ -	$ -
1.3 QC and QA										0	$ -	$ -
1.4 Project Schedule and Schedule updates										0	$ -	$ -
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -
1.2 - Meetings during Design	33	47	0	0	0	22	0	0	0	102	$ 16,278	$ -
1.2.1 Kickoff	3					3				6	$ 1,160	
1.2.2 Work Plan	4					4				8	$ 1,547	$ -
1.2.3 Project Development Team (PDT) Meetings	10	11				5				26	$ 4,221	$ -
1.2.4 General Project Design Coodination Meetings	16	36				10				62	$ 9,349	$ -
Subtotal:	33	47	0	0	0	22	0	0	0	102	$ 16,278	$ -
Task 2 - Survey												
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	7	20	50	88	165	$ 19,059	$ -
.1 Survey Research						2	4		8	14	$ 1,508	$ -
.2 Control Survey						1	4	30	24	59	$ 7,421	$ -
.3 Record Monumnent Ties						2	8	20	16	46	$ 5,741	$ -
.4 Prelim Mapping - GIS/LIDAR/Aerial Photos						2	4		40	46	$ 4,388	$ -
										0	$ -	$ -
										0	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	15	30	180	224	449	$ 54,071	$ 2,500
.1 Utility Field Markings and As-builts						2	4	30	24	60	$ 7,615	$ -
.2 Right-of-Way resolution						4	12		32	48	$ 4,858	$ -
.3 Topographic Survey						1	2	150	8	161	$ 24,447	$ 2,500
.4 Data Reduction and Mapping						8	12		160	180	$ 17,151	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	8	28	20	125	181	$ 18,719	$ -
Pre						4	16		75	95	$ 9,129	$ -
Post						4	12	20	50	86	$ 9,589	$ -
										0	$ -	$ -
										0	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
Subtotal:	0	0	0	0	0	30	78	250	437	795	$ 91,848	$ 2,500
Task 3 - Public Involvement Support												
3.1 Public Event Meeting Preparation, Participation, and Support	24	6	0	0	0	0	0	0	0	30	$ 5,362	$ -
Attend (2) Public events	8									8	$ 1,547	$ -
Attend Stakeholder briefings - up to (6) meetings	12	6								18	$ 3,041	$ -

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

	KPFF Civil / Survey											
Hourly Rate:	$193.41	$120.00	$95.00	$97.77	$75.00	$193.41	$100.38	$155.55	$90.00			
Staff Position:	Principal / PM	Proj. Engineer	Design Eng / Designer	CADD	Project Admin	Svy Manager	Project Surveyor	2-Person Field Crew	Survey Tech.	Hours	Labor Cost	Expenses
Task 1 - Project Management												
Notes to PM	4									4	$ 774	$ -
										0	$ -	$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -
3.2.2 Demonstration Boards										0	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -
3.3 Prepare Type II design review application										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
Subtotal:	24	6	0	0	0	0	0	0	0	30	$ 5,362	$ -
Task 4 - Trail Alternatives Analysis												
4.1 - Develop and Evaluate up to 3 trail alignment alts.	6	16	4	4	0	0	0	0	0	30	$ 3,852	$ -
Coordination with ALTA	4	8		4						16	$ 2,125	$ -
Assist ALTA with cost estimating trail alternatives	2	8	4							14	$ 1,727	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
4.2 Prepare Trails Alternatve Analysis Report	6	0	0	0	2	0	0	0	0	8	$ 1,310	$ -
Quality Control Review of Draft	4				1					5	$ 849	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
Subtotal:	12	16	4	4	2	0	0	0	0	38	$ 5,162	$ -
Task 5 – Preferred Alternative (PA) Report												
5.1 Research and data Gathering	2	14	6	0	2	0	0	0	0	24	$ 2,787	$ -
Design criteria memo	2	8			2					12	$ 1,497	$ -
Site visit		6	6							12	$ 1,290	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
5.2 - Alternatives Analysis Evaluation Criteria	4	2	0	0	0	0	0	0	0	6	$ 1,014	$ -
Provide input to development of evaluation criteria	4	2								6	$ 1,014	$ -
										0	$ -	$ -
										0	$ -	$ -

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

	KPFF Civil / Survey											
Hourly Rate:	$193.41	$120.00	$95.00	$97.77	$75.00	$193.41	$100.38	$155.55	$90.00			
Staff Position:	Principal / PM	Proj. Engineer	Design Eng / Designer	CADD	Project Admin	Svy Manager	Project Surveyor	2-Person Field Crew	Survey Tech.	Hours	Labor Cost	Expenses
Task 1 - Project Management												
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
5.3 Bridge Alignment Alternatives Analysis	**4**	**18**	**12**	**6**	**2**	**0**	**0**	**0**	**0**	**42**	**$ 4,810**	**$ -**
alternatives	1	8	12	6						27	$ 2,880	$ -
Compare alternatives	2	6								8	$ 1,107	$ -
Provide narrative for memorandum	1	4			2					7	$ 823	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

	KPFF Civil / Survey											
Hourly Rate:	$193.41	$120.00	$95.00	$97.77	$75.00	$193.41	$100.38	$155.55	$90.00			
Staff Position:	Principal / PM	Proj. Engineer	Design Eng / Designer	CADD	Project Admin	Svy Manager	Project Surveyor	2-Person Field Crew	Survey Tech.	**Hours**	**Labor Cost**	**Expenses**
Task 1 - Project Management												
5.4 Bridge Type and Size Alternatives Analysis	**8**	**38**	**72**	**14**	**2**	**0**	**0**	**0**	**0**	**134**	**$ 14,466**	**$ -**
Develop 15% Plans for up to (3) alt. on-grade improvements	6									6	$ 1,160	$ -
Plans and Profiles		16	40	8						64	$ 6,502	$ -
Typical Sections		2	4	2						8	$ 816	$ -
Storm Water Management Plans		8	16	4						28	$ 2,871	$ -
Cost Estimates for up to (3) alternative on-grade improvements	1	8	12							21	$ 2,293	$ -
Provide narrative for TS&L Report	1	4			2					7	$ 823	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
5.5 (See Contingency Tasks)										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
5.6 Active Transportation Analysis and Conceptual Design	**2**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**	**$ 1,347**	**$ -**
Coordination w/ ALTA	2	8								10	$ 1,347	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
5.7 Preferred Sullivan's Gulch Trail Alignment	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**8**	**$ 1,254**	**$ -**
Coordination w/ ALTA	2	4								6	$ 867	$ -
QC review	2									2	$ 387	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	**12**	**8**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**22**	**$ 3,431**	**$ -**
Coordination w/ KAI	4	8								12	$ 1,734	$ -
QC Review draft and final Traffic Analysis Reports	4				1					5	$ 849	$ -
QC Review draft and final TMP	4				1					5	$ 849	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

	KPFF Civil / Survey											
Hourly Rate:	$193.41	$120.00	$95.00	$97.77	$75.00	$193.41	$100.38	$155.55	$90.00			
Staff Position:	Principal / PM	Proj. Engineer	Design Eng / Designer	CADD	Project Admin	Svy Manager	Project Surveyor	2-Person Field Crew	Survey Tech.	Hours	Labor Cost	Expenses
Task 1 - Project Management												
										0	$ -	$ -
5.9 Preferred Alternatives (PA) Report	2	6	0	0	0	0	0	0	0	8	$ 1,107	$ -
Provide input	2	6								8	$ 1,107	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
Subtotal:	38	98	90	20	8	0	0	0	0	254	$ 30,215	$ -
Task 6 – Preliminary Design												
6.1 Advance PA Design to 30%	14	52	74	4	3	0	0	0	0	147	$ 16,594	$ -
30% Storm Water Management Plan	2	8	12	2	2					26	$ 2,832	$ -
30% Civil Drawings (12 sheets)	8	36	56	2						102	$ 11,383	$ -
Update cost estimate	2	4	6							12	$ 1,437	$ -
Provide input to 30% Design Narrative Report	2	4			1					7	$ 942	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
Subtotal:	14	52	74	4	3	0	0	0	0	147	$ 16,594	$ -
Task 7 – Final Design												
7.1 60% PS&E	17	70	70	4	4	0	0	0	0	165	$ 19,029	$ -
Response to 30% design review comments	1	4			1					6	$ 748	$ -
60% Civil Drawings (27 sheets)	8	40	60	4						112	$ 12,438	$ -
Update cost estimate	1	6	2							9	$ 1,103	$ -
Draft technical specifications	2	8			2					12	$ 1,497	$ -
60% Storm Water Management Plan	2	4	8		1					15	$ 1,702	$ -
Provide input to construction schedule	2									2	$ 387	$ -
Identify easements and right-of-way needs	1	4								5	$ 673	$ -
Prepare and submit draft survey files for review		4								4	$ 480	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
7.2 90% PS&E	13	60	66	4	4	0	0	0	0	147	$ 16,675	$ -
Response to 60% design review comments	1	4			1					6	$ 748	$ -
90% Civil Drawings (29 sheets)	8	40	60	4						112	$ 12,438	$ -
Update cost estimate	1	6	2							9	$ 1,103	$ -
90% technical specifications	2	8			2					12	$ 1,497	$ -
90% Storm Water Management Plan	1	2	4		1					8	$ 888	$ -

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

	KPFF Civil / Survey											
Hourly Rate:	$193.41	$120.00	$95.00	$97.77	$75.00	$193.41	$100.38	$155.55	$90.00			
Staff Position:	Principal / PM	Proj. Engineer	Design Eng / Designer	CADD	Project Admin	Svy Manager	Project Surveyor	2-Person Field Crew	Survey Tech.	**Hours**	**Labor Cost**	**Expenses**
Task 1 - Project Management												
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
7.3 Draft Final PS&E	**10**	**28**	**44**	**4**	**3**	**0**	**0**	**0**	**0**	**89**	**$ 10,090**	**$ -**
Response to 90% design review comments	1	2			1					4	$ 508	$ -
Draft Final Civil Drawings (29 sheets)	6	16	40	4						66	$ 7,272	$ -
Update cost estimate	1	4	2							7	$ 863	$ -
Draft Final technical specifications	1	4			1					6	$ 748	$ -
Draft Final Storm Water Management Plan	1	2	2		1					6	$ 698	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
7.4 Final (100%) PS&E - Signed and Stamped	**8**	**23**	**24**	**4**	**2**	**0**	**0**	**0**	**0**	**61**	**$ 7,128**	**$ -**
Response to Final design review comments	1	1								2	$ 313	$ -
Final Civil Drawings (29 sheets)	4	12	24	4						44	$ 4,885	$ -
Final cost estimate	1	4								5	$ 673	$ -
Final technical specifications	1	4			1					6	$ 748	$ -
Final Storm Water Management Plan	1	2			1					4	$ 508	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -
										0	$ -	$ -

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

KPFF Consulting Engineers
February 12, 2014

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add expenses & notes	Architectural Applications												
Hourly Rate:	$130.00	$92.50	$100.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Sr. Bridge Architect	Jr. Bridge Designer	CADD	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination										0	$ -	$ -	
1.2 Meetings during Design (see below)										0	$ -	$ -	
1.3 QC and QA										0	$ -	$ -	
1.4 Project Schedule and Schedule updates										0	$ -	$ -	
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -	
1.2 - Meetings during Design	58	0	0	0	0	0	0	0	0	58	$ 7,540	$ -	
1.2.1 Kickoff	3									3	$ 390		
1.2.2 Work Plan	4									4	$ 520	$ -	
1.2.3 Project Development Team (PDT) Meetings	15									15	$ 1,950	$ -	
1.2.4 General Project Design Coodination Meetings	36									36	$ 4,680	$ -	
Subtotal:	58	0	0	0	0	0	0	0	0	58	$ 7,540	$ -	
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	16	16	0	0	0	0	0	0	0	32	$ 3,560	$ -	
Public events and Stakeholder briefings	4									4	$ 520	$ -	
Preparation for Public Involvement Meeting 1	6	8								14	$ 1,520	$ -	
Preparation for Public Involvement Meeting 2	6	8								14	$ 1,520	$ -	
										0	$ -	$ -	
3.2 Presentation Graphics	70	110	0	0	0	0	0	0	0	180	$ 19,275	$ 800	
3.2.1 Artist Sketches and Diagrams	10	16								26	$ 2,780	$ -	
3.2.2 Demonstration Boards	4	12								16	$ 1,630	$ 800	
3.2.3 Physical Models	8	6								14	$ 1,595	$ -	

add expenses & notes	Architectural Applications												
Hourly Rate:	$130.00	$92.50	$100.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Sr. Bridge Architect	Jr. Bridge Designer	CADD	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
3.2.4 Static Visual Modeling / Rendering	24	36								60	$ 6,450		
3.2.5 Dynamic Visual Modeling / Rendering	24	40								64	$ 6,820	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
3.3 Type II Design Review Application	**8**	**12**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	20	$ 2,150	$ -	
3.3 Prepare Type II design review application	8	12								20	$ 2,150	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**94**	**138**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**232**	$ 24,985	$ 800	
Task 4 - Trail Alternatives Analysis													
4.1 - Develop and Evaluate up to 3 trail alignment alts.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
4.2 Prepare Trails Alternatve Analysis Report	**0**	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -		
Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	$ -	$ -	
Task 5 – Preferred Alternative (PA) Report													
5.1 Research and data Gathering	10	0	0	0	0	0	**0**	**0**	0	10	$ 1,300	$ -	
Design Criteria Memo Prep	4									4	$ 520	$ -	
Stakeholder engagement participation	6									6	$ 780	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.2 - Alternatives Analysis Evaluation Criteria	12	4	0	0	0	0	**0**	**0**	0	16	$ 1,930	$ -	
Revisit Evaluation Criteria Developed in Prior Report (April 2016)	4									4	$ 520	$ -	
Develop updated Drat Evaluation Criteria	6									6	$ 780	$ -	
Draft Evaluation Criteria Review Meeting	2									2	$ 260	$ -	
Draft Evaluation Criteria Incorporation of Review Comments		4								4	$ 370	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.3 Bridge Alignment Alternatives Analysis	22	24	0	0	0	0	**0**	**0**	0	46	$ 5,080	$ -	
Re-visit bridge alignment analyses from Alternatives Analysis Report (April	4									4	$ 520	$ -	
Coordinate alignment options	6	8								14	$ 1,520	$ -	
Develop and analyze optons to 10%	8	16								24	$ 2,520	$ -	

192

add expenses & notes	Architectural Applications												
Hourly Rate:	$130.00	$92.50	$100.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Sr. Bridge Architect	Jr. Bridge Designer	CADD	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Option Evalution & reporting	4									4	$ 520	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	

add expenses & notes	Architectural Applications												
Hourly Rate:	$130.00	$92.50	$100.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Sr. Bridge Architect	Jr. Bridge Designer	CADD	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
5.4 Bridge Type and Size Alternatives Analysis	141	241	160	0	0	0	0	0	0	542	$ 56,623	$ -	
Add type & size ealuation criteria	8									8	$ 1,040	$ -	
Re-visit bridge type analyses from April 2016 Alternatives Analysis Report	12									12	$ 1,560	$ -	
Evaluate bridge type and size options for the determined alignment	24	32								56	$ 6,080	$ -	
Add type & size ealuation criteria	8									8	$ 1,040	$ -	
Identify the most feasible type and size combinations.	8	24								32	$ 3,260	$ -	
Review & confirm short-listed options with agency	2									2	$ 260	$ -	
Advance design of each option to 15%	25	65								90	$ 9,263	$ -	
Compare options against evaluation criteria	6									6	$ 780	$ -	
Bridge drawings	40	120	160							320	$ 32,300	$ -	
Rough order of magnitude cost estimating support	6									6	$ 780	$ -	
Agency evalutaion & review meeting	2									2	$ 260	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.5 (See Contingency Tasks)										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.6 Active Transportation Analysis and Conceptual Design	4	2	0	0	0	0	0	0	0	6	$ 705	$ -	
Identify and evaluate bridge path cross-sections	4	2								6	$ 705	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.7 Preferred Sullivan's Gulch Trail Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
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										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
5.9 Preferred Alternatives (PA) Report	4	4	0	0	0	0	0	0	0	8	$ 890	$ -	
PA repot preparation support	4	4								8	$ 890	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	

add expenses & notes	Architectural Applications												192
Hourly Rate:	$130.00	$92.50	$100.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Sr. Bridge Architect	Jr. Bridge Designer	CADD	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Subtotal:	193	275	160	0	0	0	0	0	0	628	$ 66,528	$ -	
Task 6 – Preliminary Design													
6.1 Advance PA Design to 30%	50	118	240	0	0	0	0	0	0	408	$ 41,415	$ 150	
Advance Bridge analysis and design from 15% to 30%	8	16								24	$ 2,520	$ -	
Develop 30% bridge design drawings	20	80	240							340	$ 34,000	$ -	
Support 30% Design Narrative Report preparation	8	6								14	$ 1,595	$ -	
Coordinate with North/South intersection design	8	8								16	$ 1,780	$ -	
Prepare 30% submission	6	8								14	$ 1,520	$ 150	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	50	118	240	0	0	0	0	0	0	408	$ 41,415	$ 150	
Task 7 – Final Design													
7.1 60% PS&E	70	208	560	0	0	0	0	0	0	838	$ 84,340	$ 200	
Written responses to & incoporation of Agency's review comments	4	4								8	$ 890	$ -	
Advance Preferred alternative analyses from 30% to 60%	16	24								40	$ 4,300	$ -	
Advance drawings to 60% level of completion	28	148	560							736	$ 73,330	$ -	
Coordinate preliminary bridge lighting design	6	6								12	$ 1,335	$ -	
Develop draft specifications	8	12								20	$ 2,150	$ -	
Identify options for public art installations	4	6								10	$ 1,075	$ -	
Prepare 60% submission	4	8								12	$ 1,260	$ 200	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
7.2 90% PS&E	56	144	560	0	0	0	0	0	0	760	$ 76,600	$ 275	
Written responses to & incoporation of Agency's review comments	4	4								8	$ 890	$ -	
Advance analyses to 90% for bridge, approaches, and two street intersections	6	12								18	$ 1,890	$ -	

City of Lake Oswego
Estimated Fees for Professional Services for -
Laurel Street Pathway Project

KPFF Consulting Engineers
February 12, 2014

add expenses & notes	Architectural Applications												
Hourly Rate:	$130.00	$92.50	$100.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Sr. Bridge Architect	Jr. Bridge Designer	CADD	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Advance drawings to a 90% level of completion	28	100	560							686	$ 68,630	$ -	
Advance bridge lighting analyses to 90%	4	4								8	$ 890	$ -	
Advance technical specifications to a 90% level of completion	8	12								20	$ 2,150	$ -	
Finalize specifications and plans for public art installations	4	4								8	$ 890	$ -	
Prepare 90% submission	4	8								12	$ 1,260	$ 275	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
7.3 Draft Final PS&E	30	56	200	0	0	0	0	0	0	286	$ 29,080	$ -	
Written responses to & incoporation of Agency's review comments	4	4								8	$ 890	$ -	
Advance analyses to final for bridge, approaches, and two street intersections	8	16								24	$ 2,520	$ -	
Advance drawings to a final level of completion	4	12	200							216	$ 21,630	$ -	
Advance bridge lighting analyses to final	4	4								8	$ 890	$ -	
Advance technical specifications to a final level of completion	4	8								12	$ 1,260	$ -	
Finalize specifications and plans for public art installations	2	4								6	$ 630	$ -	
Prepare 95% submission	4	8								12	$ 1,280	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
7.4 Final (100%) PS&E - Signed and Stamped	20	38	40	0	0	0	0	0	0	98	$ 10,115	$ 275	
Written responses to & incoporation of Agency's review comments	4	4								8	$ 890	$ -	
Advance analyses to final for bridge, approaches, and two street intersections	6	12								18	$ 1,890	$ -	
Advance drawings to a Final level of completion	0	4	40							44	$ 4,370	$ -	
Advance bridge lighting analyses to Final	2	2								4	$ 445	$ -	
Advance technical specifications to a Final level of completion	2	4								6	$ 630	$ -	
Finalize specifications and plans for public art installations	2	4								6	$ 630	$ -	
Prepare 100% submission	4	8								12	$ 1,260	$ 275	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	**176**	**446**	**1360**	**0**	**0**	**0**	**0**	**0**	**0**	**1982**	**$ 200,135**	**$ 760**	
Task 8 – Environmental Services													
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	

	ZGF												
Hourly Rate:	$155.31	$163.91	$138.52	$102.63	$155.31	$110.00	$100.00	$0.00	$0.00				
Staff Position:	Lienhart	Wood	Thelen	UD-3	Peacock	A-4	MB-6	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination										0	$ -	$ -	$ -
1.2 Meetings during Design (see below)										0	$ -	$ -	$ -
1.3 QC and QA										0	$ -	$ -	$ -
1.4 Project Schedule and Schedule updates										0	$ -	$ -	$ -
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -	$ -
1.2 - Meetings during Design	37	18	39	0	13	0	0	0	0	107	$ 16,118	$ -	$ 16,118
1.2.1 Kickoff	3	3								6	$ 958		$ 958
1.2.2 Work Plan	4		4							8	$ 1,175	$ -	$ 1,175
1.2.3 Project Development Team (PDT) Meetings	10	5	10		5					30	$ 4,534	$ -	$ 4,534
1.2.4 General Project Design Coodination Meetings	20	10	25		8					63	$ 9,451	$ -	$ 9,451
Subtotal:	37	18	39	0	13	0	0	0	0	107	$ 16,118	$ -	$ 16,118
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	4	2	2	0	0	0	0	0	0	8	$ 1,226	$ -	$ 1,226
Public events and Stakeholder briefings	4	2	2							8	$ 1,226	$ -	$ 1,226
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.2 Presentation Graphics	0	40	0	40	0	0	0	0	0	80	$ 10,662	$ -	$ 10,662
3.2.1 Artist Sketches and Diagrams		40								40	$ 6,557	$ -	$ 6,557
3.2.2 Demonstration Boards										0	$ -	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -	$ -
3.2.4 Static Visual Modeling / Rendering				40						40	$ 4,105	$ -	$ 4,105
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.3 Type II Design Review Application	2	12	6	0	0	0	0	0	0	20	$ 3,109	$ -	$ 3,109
3.3 Prepare Type II design review application	2	12	6							20	$ 3,109	$ -	$ 3,109
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	6	54	8	40	0	0	0	0	0	108	$ 14,996	$ -	$ 14,996

Task 4 - Trail Alternatives Analysis														$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts.	0	24	12	0	0	0	0	0	0	36	$ 5,596	$ -		$ 5,596
		24	12							36	$ 5,596	$ -		$ 5,596
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -			$ -
Subtotal:	0	24	12	0	0	0	0	0	0	36	$ 5,596	$ -		$ 5,596
Task 5 – Preferred Alternative (PA) Report														$ -
5.1 Research and data Gathering	0	8	8	0	8	0	0	0	0	24	$ 3,662	$ -		$ 3,662
		8	8		8					24	$ 3,662	$ -		$ 3,662
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Alternatives Analysis Evaluation Criteria	2	2	0	0	2	0	0	0	0	6	$ 949	$ -		$ 949
	2	2			2					6	$ 949	$ -		$ 949
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.3 Bridge Alignment Alternatives Analysis	4	60	40	80	0	0	0	0	0	184	$ 24,207	$ -		$ 24,207
	4	60	40	80						184	$ 24,207	$ -		$ 24,207
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.4 Bridge Type and Size Alternatives Analysis	8	0	0	0	40	80	0	0	0	128	$ 16,255	$ -		$ 16,255
	8				40	80				128	$ 16,255	$ -		$ 16,255
										0	$ -	$ -		$ -
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										0	$ -	$ -		
5.6 Active Transportation Analysis and Conceptual Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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5.7 Preferred Sullivan's Gulch Trail Alignment	0	24	16	0	0	0	0	0	0	40	$ 6,150	$ -		$ 6,150
		24	16	0						40	$ 6,150	$ -		$ 6,150
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	14	94	64	80	50	80	0	0	0	382	$ 51,223	$ -		$ 51,223
Task 6 – Preliminary Design														
6.1 Advance PA Design to 30%	0	5	20	80	0	0	0	0	0	105	$ 11,800	$ -		$ 11,800
		5	20	80						105	$ 11,800	$ -		$ 11,800
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	5	20	80	0	0	0	0	0	105	$ 11,800	$ -		$ 11,800
Task 7 – Final Design														$ -
7.1 60% PS&E	0	0	30	120	0	0	0	0	0	150	$ 16,471	$ -		$ 16,471
		0	30	120						150	$ 16,471	$ -		$ 16,471
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.2 90% PS&E	0	0	16	40	0	0	0	0	0	56	$ 6,321	$ -		$ 6,321
		0	16	40						56	$ 6,321	$ -		$ 6,321
										0	$ -	$ -		$ -

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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.3 Draft Final PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
		0								0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	0	0	16	0	0	0	0	0	0	16	$ 2,216	$ -		$ 2,216
		0	16							16	$ 2,216	$ -		$ 2,216
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	62	160	0	0	0	0	0	222	$ 25,008	$ -		$ 25,008
Task 8 – Environmental Services														
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

8.5 Tree Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 9 – Geotechnical Services													$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 10 – Utility Coordination													
Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 11 – Permits													
Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 12 – Railroad Coordination													
Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -
Subtotals Design and Permitting:	57	195	205	360	63	80	0	0	0	960	$ 124,742	$ -	

Total Estimated Labor and Expenses Design / Permitting:	$ 124,742

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	0	0	20	0	0	0	0	0	0	20	$ 2,770	$ -		$ 2,770
			20							20	$ 2,770	$ -		$ 2,770
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.2 Prepare design Modifications	0	0	0	16	0	0	0	0	0	16	$ 1,642	$ -		$ 1,642
				16						16	$ 1,642	$ -		$ 1,642
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.3 RFIs, Submittals and Shop Drawings	0	0	8	24	0	0	0	0	0	32	$ 3,571	$ -		$ 3,571
			8	24						32	$ 3,571	$ -		$ 3,571
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	28	40	0	0	0	0	0	68	$ 7,983	$ -		$ 7,983
Subtotals Bid / Construction:	0	0	28	40	0	0	0	0	0	68	$ 7,983	$ -		
										Total Estimated Budget - Bid / Construction Phase:	$ 7,983			
Totals:	57	195	233	400	63	80	0	0	0	1028	$ 132,725	$ -		
										Total Estimated Budget - Non-contingency Tasks:	$ 132,725			

Contingency Tasks

Task C1.6 Additional Project Meetings

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

Each additional community meeting	2.0	2.0								4	$ 638	$ -		$ 638
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	2	2	0	0	0	0	0	0	0	4	$ 638	$ -		$ 638

Task C5.4.1 Additional Type and Size Alt. Analysis

Each additional Type and Size Alternative					20	40				60	$ 7,506	$ -		$ 7,506
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	20	40	0	0	0	60	$ 7,506	$ -		$ 7,506

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

Additional effort for development of Bridge Alternatives					40	40				80	$ 10,612	$ -		$ 10,612
Additional rendering of bridgeheads				40						40	$ 4,105	$ -		$ 4,105
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	40	40	40	0	0	0	120	$ 14,718	$ -		$ 14,718

Task C6.2 30% Design Alternate Intersection Design

Urban Design for Alternate Intersection Design	2	12	8	8						30	$ 4,207	$ -		$ 4,207
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	2	12	8	8	0	0	0	0	0	30	$ 4,207	$ -		$ 4,207

Task C7.5 Final Design- Alternate Intersection Design

Urban Design for Alternate Intersection Design			20	20						40	$ 4,823	$ -		$ 4,823
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	20	20	0	0	0	0	0	40	$ 4,823	$ -		$ 4,823

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Subtotals Contingency Tasks:	4	14	28	68	60	80	0	0	0	254	$ 31,892	$ -	

Total Estimated Budget - Contingency Tasks:	$ 31,892
Grand Total Budget - w/ Contingency Tasks:	$ 164,617

	Kittelson & Associates, Inc. (Kittelson)												
Hourly Rate:	$232.69	$216.49	$137.81	$106.76	$158.90	$101.86	$116.79	$81.73					
Staff Position:	Hermanus Steyn	Charles Radosta	Jeff Whitman	Yi-Min Ha	Karla Kingsley	Nick Gross	John Henriksen	Brad Cullimore	Hours	Labor Cost	Expenses	Notes:	
Task 1 - Project Management													
1.1 Project Management & Coordination	8								8	$ 1,862	$ -		$ 1,862
1.2 Meetings during Design (see below)									0	$ -	$ -		$ -
1.3 QC and QA	2								2	$ 465	$ -	Prepare/submit QA/QC plan	$ 465
1.4 Project Schedule and Schedule updates	2								2	$ 465	$ -		$ 465
1.5 Monthly Invoices & Progress Reports	40								40	$ 9,308	$ -	40 months of invoicing	$ 9,308
1.2 - Meetings during Design	63	0	3	0	0	0	0	0	66	$ 15,073	$ -		$ 15,073
1.2.1 Kickoff	3		3						6	$ 1,112		2 KAI staff at this meeting	$ 1,112
1.2.2 Work Plan	4								4	$ 931	$ -	1 KAI staff at this meeting	$ 931
1.2.3 Project Development Team (PDT) Meetings	16								16	$ 3,723	$ -	1 KAI staff at each meeting	$ 3,723
1.2.4 General Project Design Coodination Meetings	40								40	$ 9,308	$ -	1 KAI staff at up to 20 mtgs	$ 9,308
Subtotal:	115	0	3	0	0	0	0	0	118	$ 27,173	$ -		$ 27,173
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
2.2 - Preferred Alternative Detailed Design Base Mapping	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	$ -	$ -		
									0	$ -	$ -		
									0	$ -	$ -		
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	8	0	0	0	0	0	0	0	8	$ 1,862	$ -		$ 1,862
Prepare for one public event	4								4	$ 931	$ -		$ 931
Participate in one public event	4								4	$ 931	$ -		$ 931
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
3.2.1 Artist Sketches and Diagrams									0	$ -	$ -		$ -
3.2.2 Demonstration Boards									0	$ -	$ -		$ -
3.2.3 Physical Models									0	$ -	$ -		$ -
3.2.4 Static Visual Modeling / Rendering									0	$ -	$ -		$ -
3.2.5 Dynamic Visual Modeling / Rendering									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
3.3 Prepare Type II design review application									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	8	0	0	0	0	0	0	0	8	$ 1,862	$ -		$ 1,862
Task 4 - Trail Alternatives Analysis													$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts.	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 5 – Preferred Alternative (PA) Report													$ -
5.1 Research and data Gathering	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
5.2 - Alternatives Analysis Evaluation Criteria	4	0	2	0	2	0	0	0	8	$ 1,524	$ -		$ 1,524
Provide input to evaluation criteria from a traffic perspective	1		2		2				5	$ 826	$ -		$ 826
Participate in one meeting with PBOT	3								3	$ 698	$ -		$ 698
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
5.3 Bridge Alignment Alternatives Analysis	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
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									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
5.4 Bridge Type and Size Alternatives Analysis	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
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									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
5.5 (See Contingency Tasks)									0	$ -	$ -		
									0	$	$		
									0	$	$		
5.6 Active Transportation Analysis and Conceptual Design	10	4	0	0	20	40	0	0	74	$ 10,445	$ -		$ 10,445
Analyze anticipated pedestrian / bicycle travel demand	2	1			4	8			15	$ 2,132	$ -		$ 2,132
Identify and evaluate bridge path cross-sections	2	1			4	8			15	$ 2,132	$ -		$ 2,132
Perform a desire lines analysis at up to three key intersections	4	1			8	16			29	$ 4,048	$ -		$ 4,048
Coordinate with Roadway and Traffic Design	2	1			4	8			15	$ 2,132	$ -		$ 2,132
									0	$ -	$ -		$ -
5.7 Preferred Sullivan's Gulch Trail Alignment	2	0	0	0	4	0	0	0	6	$ 1,101	$ -		$ 1,101
C ordin te w rit bjecheam ega rdigtra i l on eo nwith roa d/ldge	2				4				6	$ 1,101	$ -		$ 1,101
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	53	18	32	72	74	146	16	0	411	$ 56,825	$ 4,000		$ 60,825

5.8.1 Traffic Operations Analysis and Conceptual Traffic Designs									0	$ -	$ -		$ -
• Collect traffic data (9 intersections and tube count)					1	2			3	$ 363	$ 4,000		$ 4,363
• Analyze anticipated pedestrian / bicycle travel demand	2				4	8			14	$ 1,916	$ -		$ 1,916
• Conduct weekday AM and PM traffic operations (3 scenarios)	8	2		32	24	32			98	$ 12,784	$ -		$ 12,784
Blvd	2	1			2	8			13	$ 1,815	$ -		$ 1,815
Boulevard/NE 7th Avenue intersection	2	1			2	8			13	$ 1,815	$ -		$ 1,815
• Develop up to two (2) intersection configurations for two intersections	2	1			2	8			13	$ 1,815	$ -		$ 1,815
• Compare and evaluate traffic design options	4	2			4	12			22	$ 3,222	$ -		$ 3,222
estimates	4	2	8			24			38	$ 4,911	$ -		$ 4,911
• Coord 15% drawings for each alternative with project team	8								8	$ 1,862	$ -		$ 1,862
• Prepare and submit a Draft Traffic Design Report	8	4			24	32			68	$ 9,801	$ -		$ 9,801
• Meet with Agency to review the Draft report	3				3				6	$ 1,175	$ -		$ 1,175
• Incorporate comments and submit Final report	2	1			8	12			23	$ 3,175	$ -		$ 3,175
5.8.2 Transportation Management Plan (TMP)									0	$ -	$ -		$ -
• Prepare TMP based on typical approach	8	4	24	40			16		92	$ 12,174	$ -		$ 12,174
5.9 Preferred Alternatives (PA) Report	2	1	0	0	4	0	0	0	7	$ 1,317	$ -		$ 1,317
• Coordinate input for traffic elements	2	1			4				7	$ 1,317	$ -		$ 1,317
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	71	23	34	72	104	186	16	0	506	$ 71,212	$ 4,000		$ 75,212
Task 6 – Preliminary Design													
6.1 Advance PA Design to 30%	4	1	8	12	0	0	0	0	25	$ 3,531	$ -		$ 3,531
• Coordinate potential street light poles locations for civil plans	2		4						6	$ 1,017	$ -		$ 1,017
• Prepare traffic signal plans	2	1	4	12					19	$ 2,514	$ -		$ 2,514
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	4	1	8	12	0	0	0	0	25	$ 3,531	$ -		$ 3,531
Task 7 – Final Design													$ -
7.1 60% PS&E	28	14	52	32	0	0	40	44	210	$ 28,396	$ -		$ 28,396
• Prepare signing and striping plans	4	2	8					12	26	$ 3,447	$ -		$ 3,447
• Prepare street lighting plans	4	2	8					12	26	$ 3,447	$ -		$ 3,447
• Prepare traffic signal plans	4	2		16				12	34	$ 4,053	$ -		$ 4,053
• Prepare interconnect plan	2	1		8				8	19	$ 2,190	$ -		$ 2,190
• Prepare temprary traffic control plans	8	4	24				40		76	$ 10,706	$ -		$ 10,706
• Prepare construction cost estimates	2	1	4	8					15	$ 2,087	$ -		$ 2,087
• Develop draft of applicable technical specifications	4	2	8						14	$ 2,466	$ -		$ 2,466
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
7.2 90% PS&E	52	17	80	56	0	0	80	80	365	$ 48,665	$ -		$ 48,665
• Prepare signing and striping plans	8	2	12					24	46	$ 5,910	$ -		$ 5,910
• Prepare street lighting plans	8	2	12					24	46	$ 5,910	$ -		$ 5,910
• Prepare traffic signal plans	8	2		28				20	58	$ 6,918	$ -		$ 6,918
• Prepare interconnect plan	2	1		12				12	27	$ 2,944	$ -		$ 2,944
• Prepare temprary traffic control plans	16	4	32				80		132	$ 18,342	$ -		$ 18,342
• Prepare construction cost estimates	4	2	8	16					30	$ 4,174	$ -		$ 4,174
• Develop technical specifications	6	4	16						26	$ 4,467	$ -		$ 4,467
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
7.3 Draft Final PS&E	28	11	52	30	0	0	40	40	201	$ 27,206	$ -		$ 27,206
• Prepare signing and striping plans	4	1	8					12	25	$ 3,230	$ -		$ 3,230

• Prepare street lighting plans	4	1	8					12	25	$ 3,230	$ -		$ 3,230
• Prepare traffic signal plans	4	1		16				10	31	$ 3,673	$ -		$ 3,673
• Prepare interconnect plan	2	1		6				6	15	$ 1,813	$ -		$ 1,813
• Prepare temprary traffic control plans	8	4	24				40		76	$ 10,706	$ -		$ 10,706
• Prepare construction cost estimates	2	1	4	8					15	$ 2,087	$ -		$ 2,087
• Develop technical specifications	4	2	8						14	$ 2,466	$ -		$ 2,466
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	8	0	18	10	0	0	24	14	74	$ 9,357	$ -		$ 9,357
• Prepare signing and striping plans	1		2					4	7	$ 835	$ -		$ 835
• Prepare street lighting plans	1		2					4	7	$ 835	$ -		$ 835
• Prepare traffic signal plans	1		1	8				4	14	$ 1,551	$ -		$ 1,551
• Prepare interconnect plan	1		1	2				2	6	$ 747	$ -		$ 747
• Prepare temprary traffic control plans	2		8				24		34	$ 4,371	$ -		$ 4,371
• Prepare construction cost estimates	1		2						3	$ 508	$ -		$ 508
• Develop technical specifications	1		2						3	$ 508	$ -		$ 508
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	116	42	202	128	0	0	184	178	850	$ 113,624	$ -		$ 113,624
Task 8 – Environmental Services													
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
8.5 Tree Survey	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 9 – Geotechnical Services													$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task 11 – Permits

Task 11 - Permits	8	0	0	0	0	0	0	0	8	$ 1,862	$ -		$ 1,862
• Meet with Agency staff (2 times) to identify specific requirements (traffic control)	8								8	$ 1,862	$ -		$ 1,862
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	8	0	0	0	0	0	0	0	8	$ 1,862	$ -		$ 1,862

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0		$ -

Subtotals Design and Permitting:	3 22	66	2 4 7	212	1 04	188	200	1 78	1515	$ 219,263	$ 4,000		

Total Estimated Labor and Expenses Design / Permitting: $ 223,263

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	6	2	28	0	0	0	16	0	52	$ 7,556	$ -		$ 7,556
Attend and participate in Pre-Bid meeting			4						4	$ 551	$ -		$ 551
Respond to questions	2		8						10	$ 1,568	$ -		$ 1,568
Coordinte and provide necessary documentation	2	1	8						11	$ 1,784	$ -		$ 1,784
Prepare an addendum (one) to the bid documents	2	1	8				16		27	$ 3,653	$ -		$ 3,653
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	6	2	28	0	0	0	16	0	52	$ 7,556	$ -		$ 7,556

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	0	0	15	0	0	0	0	0	15	$ 2,067	$ -		$ 2,067
• Attendance of construction meetings			12						12	$ 1,654	$ -		$ 1,654

• Attend one (1) Substantial Completion walk-through			3						3	$ 413	$ -		$ 413
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
14.2 Prepare design Modifications	4	2	8	24	0	0	12	0	50	$ 6,430	$ -		$ 6,430
One design modifcation	4	2	8	24			12		50	$ 6,430	$ -		$ 6,430
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
14.3 RFIs, Submittals and Shop Drawings	4	0	12	4	0	0	0	0	20	$ 3,012	$ -		$ 3,012
Respond up to 5	4		12	4					20	$ 3,012	$ -		$ 3,012
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
14.7 As-constructed Drawings	2	1	4	8	0	0	24	0	39	$ 4,890	$ -		$ 4,890
Prepare CAD Record Drawings	2	1	4	8			24		39	$ 4,890	$ -		$ 4,890
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	10	3	39	36	0	0	36	0	124	$ 16,399	$ -		$ 16,399
Subtotals Bid / Construction:	16	5	67	36	0	0	52	0	176	$ 23,955	$ -		
Total Estimated Budget - Bid / Construction Phase:										$ 23,955			
Totals:	338	71	314	248	104	186	252	178	1691	$ 243,218	$ 4,000		
Total Estimated Budget - Non-contingency Tasks:										$ 247,218			

Contingency Tasks

Task C1.6 Additional Project Meetings													

Additional meetings	8.0								8	$ 1,862	$ -	4 additional 2-hour meetings	$ 1,862
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	8	0	0	0	0	0	0	0	8	$ 1,862	$ -		$ 1,862

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.2 30% Design Alternate Intersection Design

Roundabout functional layout	8		16					4	28	$ 4,393	$ -		$ 4,393
Task 6.1 credit for removal of signal design	-2	-1	-4	-12	0	0	0	0	-19	$ (2,514)	$ -		$ (2,514)
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	6	-1	12	-12	0	0	0	4	9	$ 1,879	$ -		$ 1,879

Task C7.5 Final Design- Alternate Intersection Design

Expanded street lighting	4	2	8					12	26	$ 3,447	$ -		$ 3,447
Expanded signing/striping	4	2	8					12	26	$ 3,447	$ -		$ 3,447

Task 7.1, 7.2, 7.3, 7.4 credit for removal of signal design	-17	-5	-1	-68	0	0	0	-46	-137	$ (16,195)	$ -		$ (16,195)
Task 7.1, 7.2, 7.3, 7.4 credit for removal of interconnect design	-7	-3	-1	-28	0	0	0	-28	-67	$ (7,694)	$ -		$ (7,694)
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	-16	-4	14	-96	0	0	0	-50	-152	$ (16,995)	$ -		$ (16,995)

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C9.2.1 Additional Soil Boring

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C10.3 Utility Relocation Facilitation

									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
									0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Subtotals Contingency Tasks:	-2	-5	26	-108	0	0	0	-46	-135	$ (13,254)	$ -	

Total Estimated Budget - Contingency Tasks: $ (13,254)

Grand Total Budget - w/ Contingency Tasks: $ 233, 954

	GRI												
Hourly Rate:	$236.25	$212.62	$156.92	$140.04	$121.51	$106.94	$168.75	$102.24	$171.45				
Staff Position:	Principal	Associate	Engineer / Geologist	Engineer / Geologist	Engineer / Scientist	CADD / Drafter	Technical Editor	Clerical / Production	Accountant	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination	8		12							20	$ 3,773	$ -	$ 3,773
1.2 Meetings during Design (see below)										0	$ -	$ -	$ -
1.3 QC and QA	8									8	$ 1,890	$ -	$ 1,890
1.4 Project Schedule and Schedule updates										0	$ -	$ -	$ -
1.5 Monthly Invoices & Progress Reports	2		4						8	14	$ 2,472	$ -	$ 2,472
1.2 - Meetings during Design	3	0	35	0	0	0	0	0	0	38	$ 6,201	$ -	$ 6,201
1.2.1 Kickoff	3		3							6	$ 1,180		$ 1,180
1.2.2 Work Plan			4							4	$ 628	$ -	$ 628
1.2.3 Project Development Team (PDT) Meetings			12							12	$ 1,883	$ -	$ 1,883
1.2.4 General Project Design Coodination Meetings			16							16	$ 2,511	$ -	$ 2,511
Subtotal:	21	0	51	0	0	0	0	0	8	80	$ 14,336	$ -	$ 14,336
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Public events and Stakeholder briefings										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -	$ -
3.2.2 Demonstration Boards										0	$ -	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -	$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -	$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.3 Prepare Type II design review application										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 4 - Trail Alternatives Analysis													$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 5 – Preferred Alternative (PA) Report														$ -
5.1 Research and data Gathering	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Alternatives Analysis Evaluation Criteria	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.3 Bridge Alignment Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5. 4Bridge Type and Size Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.5 (See Contingency Tasks)										0	$ -	$ -		
										0	$ -	$ -		
5.6 Active Transportation Analysis and Conceptual Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.7 Preferred Sullivan's Gulch Trail Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.8 Traffic Analysi sConceptual Traffi cDesigns, and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 6 – Preliminary Design

6.1 Advance PA Design to 30%	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 7 – Final Design

7.1 60% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
7.2 90% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
7.3 Draft Final PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 8 – Environmental Services														
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.4 Hazardous Materials	8	0	4	72	40	14	6	6	0	150	$ 20,584	$ 11,760		$ 32,345
8.4.1 Hazardous Materials Corridor Study	4		4	40	16	8	4	4		80	$ 11,058	$ 630		$ 11,688
8.4.2.1 Shoulder Material Investigation Work Plan and Health and Safety Plan (HASP)	2			8	4	2	1	1		18	$ 2,564	$ -		$ 2,564
8.4.2.2 Shoulder Material Sample Collection and Reporting	2			24	20	4	1	1		52	$ 6,962	$ 11,130		$ 18,093
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.5 Tree Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	8	0	4	72	40	14	6	6	0	150	$ 20,584	$ 11,760		$ 32,345
Task 9 – Geotechnical Services														$ -
Task 9 – Geotechnical Services	14	0	100	0	128	6	12	3	0	263	$ 37,526	$ 50,852		$ 88,378
9.1 Subsurface Exploration Work Plan			8		4		2	1		15	$ 2,181	$ -		$ 2,181
9.2 Subsurface Explorations and Laboratory Testing	2		20		96	2	2			122	$ 15,827	$ 50,852		$ 66,679
9.3 Geotechnical Analysis	4		38		16					58	$ 8,852	$ -		$ 8,852
9.4 Geotechnical Technical Report	4		22		12	4	8	2		52	$ 7,838	$ -		$ 7,838
9.5 Geotechnical Consultation for Final Design	4		12							16	$ 2,828	$ -		$ 2,828

y ea. @ end bents & 4 days @ intermediate bent) (Assumes 8 hrs. senior enginee										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	14	0	100	0	128	6	12	3	0	263	$ 37,526	$ 50,852	$ 88,378

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -
Subtotals Design and Permitting:	43	0	155	72	168	20	18	9	8	493	$ 72,445	$ 62,612	

Total Estimated Labor and Expenses Design / Permitting: $ 135,058

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	6	0	10	0	0	0	0	0	0	16	$ 2,987	$ -	$ 2,987
Attend Pre-Bid Meeting	4		4							8	$ 1,573	$ -	$ 1,573
Limited Response to CC Questions & Assistance w/Bid Addenda	2		6							6	$ 1,414	$ -	$ 1,414
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	6	0	10	0	0	0	0	0	0	16	$ 2,987	$ -	$ 2,987

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	0	0	8	0	8	0	0	0	0	16	$ 2,227	$ -	$ 2,227
Attend 2 Miscellaneous Construction Support Site Visits			8		8					16	$ 2,227	$ -	$ 2,227
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.3 RFIs, Submittals and Shop Drawings	3	0	12	0	0	0	0	0	0	15	$ 2,592	$ -		$ 2,592
Review Foundation Submittals	2		8							10	$ 1,728	$ -		$ 1,728
Review Miscellaneous Submittals	1		4							5	$ 864	$ -		$ 864
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.5 Geotechnical Support	0	0	16	0	152	0	0	0	0	168	$ 20,980	$ -		$ 20,980
Continuous Observation During Shaft/Pile Foundation Installation			8		108					116	$ 14,378	$ -		$ 14,378
Observe General Site Grading & Fill Placement			2		8					10	$ 1,286	$ -		$ 1,286
Observe Retaining Wall Construction			2		12					14	$ 1,772	$ -		$ 1,772
Observe Backfilling of Abutment Walls			2		16					18	$ 2,258	$ -		$ 2,258
Observe Preparation of Pavement Subgrade at Approaches			2		8					10	$ 1,286	$ -		$ 1,286
(Assumes 150 hrs. of staff engineer time on site per SOW; senior engineer time is for support)										0	$ -	$ -		$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	3	0	36	0	160	0	0	0	0	199	$ 25,799	$ -		$ 25,799
Subtotals Bid / Construction:	9	0	46	0	160	0	0	0	0	215	$ 28,786	$ -		
Total Estimated Budget - Bid / Construction Phase:											$ 28,786			
Totals:	52	0	201	72	328	20	18	9	8	708	$ 101,232	$ 62,612		
Total Estimated Budget - Non-contingency Tasks:											$ 163,845			

Contingency Tasks

Task C1.6 Additional Project Meetings

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C9.2.1 Additional Soil Boring

Complete 2 Additional Borings for Foundations or Temporary Shoring			8		28					36	$ 4,658	$ 13,645		$ 18,303
(Assumes 1 of the borings will be located in shoulder of I-84 and will require ODOT permit coordination and night work with traffic control)										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	8	0	28	0	0	0	0	36	$ 4,658	$ 13,645		$ 18,303

Task C10. Utility Relocation Facilitati n o

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
S btal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Subtotals Contingency Tasks:	0	0	8	0	28	0	0	0	0	36	$ 4,658	$ 13,645		

Total Estimated Budget - Contingency Tasks: $ 18,303

Grand Total Budget - w/ Contingency Tasks: $ 182,147

	Alta Planning and Design												
Hourly Rate:	$200.00	$145.00	$125.00	$95.00	$85.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	PIC	PM	PE	Designer I	Designer II	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination		16								16	$ 2,320	$ -	$ 2,320
1.2 Meetings during Design (see below)										0	$ -	$ -	$ -
1.3 QC and QA	8									8	$ 1,600	$ -	$ 1,600
1.4 Project Schedule and Schedule updates										0	$ -	$ -	$ -
1.5 Monthly Invoices & Progress Reports		6								6	$ 870	$ -	$ 870
1.2 - Meetings during Design	**14**	**9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**	$ 4,105	$ -	$ 4,105
1.2.1 Kickoff	3	3								6	$ 1,035		$ 1,035
1.2.2 Work Plan	4									4	$ 800	$ -	$ 800
1.2.3 Project Development Team (PDT) Meetings	7									7	$ 1,400	$ -	$ 1,400
1.2.4 General Project Design Coodination Meetings		6								6	$ 870	$ -	$ 870
Subtotal:	22	31	0	0	0	0	0	0	0	53	$ 8,895	$ -	$ 8,895
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Public events and Stakeholder briefings										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -	$ -
3.2.2 Demonstration Boards										0	$ -	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -	$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -	$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.3 Prepare Type II design review application										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 4 - Trail Alternatives Analysis													$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts.	22	50	88	60	72	0	0	0	0	292	$ 34,470	$ 650	$ 35,120
4.1.1 Stakeholder Meeting	4	6	4							14	$ 2,170	$ 50	$ 2,220

4.1.2 Trail Evaluation Criteria Technical Memorandum	2	16		24	12					54	$ 6,020	$ -		$ 6,020
4.1.3 15% Design of 3 Alternatives	10	16	60	16	60					162	$ 18,440	$ 550		$ 18,990
4.1.4 Alternatives Analysis	4	8		20						32	$ 3,860	$ 50		$ 3,910
4.1.5 Cost Estimates	2	4	24							30	$ 3,980	$ -		$ 3,980
										0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	16	42	0	24	24	0	0	0	0	106	$ 13,610	$ 50		$ 13,660
4.2.1 Draft Trail Alternatives Analysis Report	4	12		16	24					56	$ 6,100	$ -		$ 6,100
4.2.3 Final Evaluation Criteria Memorandum and Trail Alternatives Analysis Report	8	24		8						40	$ 5,840	$ -		$ 5,840
5.1 Research and data Gathering	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Alternatives Analysis Evaluation Criteria	2	8	0	0	0	0	0	0	0	10	$ 1,560	$ -		$ 1,560
Assistance with Trails Portions of Draft and final Evaluation Criteria Technical Memorandu	2	8								10	$ 1,560	$ -		$ 1,560
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.3 Bridge Alignment Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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5.4 Bridge Type and Size Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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5.5 (See [illegible] Tasks)										0	$	$		
										0	$	$		
										0	$	$		
5.6 Active Transportation Analysis and Conceptual Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
5.7 Preferred Sullivan's Gulch Trail Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
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5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
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5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	2	8	0	0	0	0	0	0	0	10	$ 1,560	$ -		$ 1,560
Task 6 -- Preliminary Design														
6.1 Advance PA Design to 30%	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 7 -- Final Design														$ -
										0	$ -	$ -		$ -
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7.2 90% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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7.3 Draft Final PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
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7.4 Final (100%) PS&E - Signed and Stamped	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 8 – Environmental Services													
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
8.5 Tree Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 9 – Geotechnical Services													$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 10 – Utility Coordination													

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -
Subtotals Design and Permitting:	62	131	88	84	96	0	0	0	0	461	$ 58,535	$ 700	

Total Estimated Labor and Expenses Design / Permitting: $ 59,235

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

14.3 RFIs, Submittals and Shop Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Subtotals Bid / Construction:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										Total Estimated Budget - Bid / Construction Phase:		$ -	
Totals:	62	131	8	84	96	0	0	0	0	461	$ 58,535	$ 700	
										Total Estimated Budget - Non-contingency Tasks:		$ 59,235	

Contingency Tasks

Task C1.6 Additional Project Meetings

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
														-

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Subtotals Contingency Tasks:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	

Total Estimated Budget - Contingency Tasks: $ -

Grand Total Budget - w/ Contingency Tasks: $ 59,235

	Environmental Science & Assessment, LLC												
Hourly Rate:	$136.01	$110.86	$78.17	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Principal	Senior Scientist	Staff Scientist	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination										0	$ -	$ -	$ -
1.2 Meetings during Design (see below)										0	$ -	$ -	$ -
1.3 QC and QA										0	$ -	$ -	$ -
1.4 Project Schedule and Schedule updates										0	$ -	$ -	$ -
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -	$ -
1.2 - Meetings during Design	0	12	0	0	0	0	0	0	0	12	$ 1,330	$ 15	$ 1,345
1.2.1 Kickoff		3								3	$ 333	$ 5	$ 338
1.2.2 Work Plan		4								4	$ 443	$ 5	$ 448
1.2.3 Project Development Team (PDT) Meetings		5								5	$ 554	$ 5	$ 559
1.2.4 General Project Design Coodination Meetings										0	$ -	$ -	$ -
Subtotal:	0	12	0	0	0	0	0	0	0	12	$ 1,330	$ 15	$ 1,345
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Public events and Stakeholder briefings										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -	$ -
3.2.2 Demonstration Boards										0	$ -	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -	$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -	$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.3 Prepare Type II design review application										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 4 - Trail Alternatives Analysis													$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts.	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4. 2Prepare Trails Alternatve Analysis Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 5 – Preferred Alternative (PA) Report														$ -
5.1 Research and data Gathering	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$	$		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Alternatives Analysis Evaluation Criteria	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5. 3Bridge Alignment Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5. 4Bridge Type and Size Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
5.5 (See Contingency Tasks)										0	$ -	$ -		
										0	$ -	$ -		
										0	$	$		
5. 6 Active Transportation Analysis and Conceptual Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5. 7Preferred Sullivan's Gulch Trail Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.8 Traffic Analysis, Conceptual Traffic Designs and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task 6 – Preliminary Design

6.1 Advance PA Design to 30%	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task 7 – Final Design

7.1 60% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
7.2 90% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.3 Draft Final PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 8 – Environmental Services														
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	18	46	4	0	0	0	0	0	0	68	$ 7,860	$ 170		$ 8,030
8.3.1 Background Data Collection & Field Documentation	2	30	4							36	$ 3,911	$ 170		$ 4,081
Agency Consultation	4	4								8	$ 987	$ -		$ 987
Alternatives Constraints Analysis	8	4								12	$ 1,532	$ -		$ 1,532
Coodination w Project Team	4	8								12	$ 1,431	$ -		$ 1,431
										0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.5 Tree Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	18	46	4	0	0	0	0	0	0	68	$ 7,860	$ 170		$ 8,030
Task 9 – Geotechnical Services														$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -

Subtotals Design and Permitting:	18	58	4	0	0	0	0	0	0	60	$ 9,191	$ 185	

Total Estimated Labor and Expenses Design / Permitting: $ 9,376

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.3 RFIs, Submittals and Shop Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Subtotals Bid / Construction:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		
Total Estimated Budget - Bid / Construction Phase:											$ -			
Totals:	18	58	4	0	0	0	0	0	0	80	$ 9,191	$ 185		
Total Estimated Budget - Non-contingency Tasks:											$ 9,376			

Contingency Tasks

Task C1.6 Additional Project Meetings														
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

Prepare permit applications	40	25	8							73	$ 8,837	$ -		$ 8,837
Weed Mapping		4	4							8	$ 756	$ -		$ 756
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	40	29	12	0	0	0	0	0	0	81	$ 9,593	$ -		$ 9,593

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Subtotals Contingency Tasks:	40	29	12	0	0	0	0	0	0	81	$ 9,593	$ -	

Total Estimated Budget - Contingency Tasks:	$ 9,593
Grand Total Budget - w/ Contingency Tasks:	$ 18,969

	AINW												
Hourly Rate:	$163.48	$121.70	$122.74	$98.72	$94.02	$95.84	$65.29	$84.88	$67.90				
Staff Position:	PI/PM Senior Archaeologist	Senior Archaeologist	Sr Archit./ Archaeo./Hist.	Sr. Archi. Hist.	Supervising Archaeo.	Graphics	Staff Archaeo.	Research/ Admin	Architect. Hist.	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination										0	$ -	$ -	$ -
1.2 Meetings during Design (see below)										0	$ -	$ -	$ -
1.3 QC and QA										0	$ -	$ -	$ -
1.4 Project Schedule and Schedule updates										0	$ -	$ -	$ -
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -	$ -
1.2 - Meetings during Design	22	0	0	0	0	0	0	0	0	22	$ 3,597	$ 107	$ 3,704
1.2.1 Kickoff										0	$ -		$ -
1.2.2 Work Plan	4									4	$ 654	$ 11	$ 665
1.2.3 Project Development Team (PDT) Meetings	7									7	$ 1,144	$ 75	$ 1,219
1.2.4 General Project Design Coodination Meetings	11									11	$ 1,798	$ 21	$ 1,820
Subtotal:	22	0	0	0	0	0	0	0	0	22	$ 3,597	$ 107	$ 3,704
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Public events and Stakeholder briefings										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -	$ -
3.2.2 Demonstration Boards										0	$ -	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -	$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -	$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.3 Prepare Type II design review application										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 4 - Trail Alternatives Analysis													$ -
4. 1- Develop and Evalua te up to 3 tr ril alignment alts.	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4.2 Prepare Tra is A ritatve A alysis Re ort p	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 5 – Preferred Alternative (PA) Report														$ -
5. Researc and data Gatherin g	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - A rnatives Analysis Evalua ontC riteia	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
5.3 Bridge A ignm eAlternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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5.4 Bridge Type and Size Alternatives Analysis ...	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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5.5 (See Contingency Tasks)										0	$	$		
										0	$	$		
										0	$	$		
5.6 ctive nsportation Analysis and C nceptual De ign	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
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5 referred Sullivan's ch Tau Alig nment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
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5.8 Analysis, Conceptual T ra ffic Des, a d TnP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
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5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
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Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 6 – Preliminary Design													
6.1 Advance PA Design to 30%	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
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Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 7 – Final Design													
7.1 60% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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7.2 90% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
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7.3 Draft Final PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
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7.4 Final (100%) PS&E - Signed and Stamped	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 8 – Environmental Services														
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	56	0	0	100	80	10	8	10	6	270	$ 29,285	$ 18		$ 29,303
Archaeological Resources	24	0	0	0	40	0	8	0	0	72	$ 8,207	$ 9		$ 8,216
Historic Resources	18	0	0	60	0	0	0	0	4	82	$ 9,137	$ 9		$ 9,146
Report Preparation	14	0	0	40	40	10	0	10	2	116	$ 11,941	$ -		$ 11,941
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.5 Tree Inventory and Arborist Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -			$ -
										0	$ -			$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -			$ -
										0	$ -	$ -		$ -
Subtotal:	56	0	0	100	80	10	8	10	6	270	$ 29,285	$ 18		$ 29,303
Task 9 – Geotechnical Services														$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
														$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -

Subtotals Design and Permitting:	78	0	0	100	80	10	8	10	6	292	$ 32,882	$ 125	

Total Estimated Labor and Expenses Design / Permitting: $ 33,007

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

										0	$ -	$ -	$ -
14.3 RFIs, Submittals and Shop Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.6 On-Call Archaeological Support	12	0	0	0	80	4	0	4	2	102	$ 10,342	$ 27	$ 10,369
Archaeological Monitoring	12	0	0	0	80	4	0	4	2	102	$ 10,342	$ 27	$ 10,369
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	12	0	0	0	80	4	0	4	2	102	$ 10,342	$ 27	$ 10,369
Subtotals Bid / Construction:	12	0	0	0	80	4	0	4	2	102	$ 10,342	$ 27	
										Total Estimated Budget - Bid / Construction Phase:		$ 10,369	
Totals:	90	0	0	100	160	14	8	14	8	394	$ 43,224	$ 152	
										Total Estimated Budget - Non-contingency Tasks:		$ 43,376	

Contingency Tasks

Task C1.6 Additional Project Meetings

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

Shovel Testing, Permit, Site Form	12	30	0	0	80	4	0	4	0	130	$ 13,857	$ 9		$ 13,866
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	12	30	0	0	80	4	0	4	0	130	$ 13,857	$ 9		$ 13,866

Task C8.2.2 Determination of Eligibility and Finding of Effect

Determination of Eligibility (N=2), finding of Effect (N=2)	14	0	60	5					5	84	$ 10,486	$ 9		$ 10,495
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	14	0	60	5	0	0	0	0	5	84	$ 10,486	$ 9		$ 10,495

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Subtotals Contingency Tasks:	26	30	60	5	80	4	0	4	5	214	$ 24,343	$ 18		

Total Estimated Budget - Contingency Tasks:	$ 24,361
Grand Total Budget - w/ Contingency Tasks:	$ 67,737

	Thomas W. Wiser, dba Wiser Rail Engineering												
Hourly Rate:	$227.00	$90.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	S. Engineer	CAD Tech	Staff 3	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination	2									2	$ 454	$ -	$ 454
1.2 Meetings during Design (see below)										0	$ -	$ -	$ -
1.3 QC and QA										0	$ -	$ -	$ -
1.4 Project Schedule and Schedule updates										0	$ -	$ -	$ -
1.5 Monthly Invoices & Progress Reports	8									8	$ 1,816	$ -	$ 1,816
1.2 - Meetings during Design	39	0	0	0	0	0	0	0	0	39	$ 8,853	$ 198	$ 9,051
1.2.1 Kickoff	4									4	$ 908	$ 18	$ 926
1.2.2 Work Plan	5									5	$ 1,135	$ 18	$ 1,153
1.2.3 Project Development Team (PDT) Meetings	12									12	$ 2,724	$ 54	$ 2,778
1.2.4 General Project Design Coodination Meetings	18									18	$ 4,086	$ 108	$ 4,194
Subtotal:	49	0	0	0	0	0	0	0	0	49	$ 11,123	$ 198	$ 11,321
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Public events and Stakeholder briefings										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -	$ -
3.2.2 Demonstration Boards										0	$ -	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -	$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -	$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.3 Prepare Type II design review application										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 4 - Trail Alternatives Analysis													$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts.	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 5 – Preferred Alternative (PA) Report														$ -
5.1 Research and data Gathering	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Alternatives Analysis Evaluation Criteria	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.3 Bridge Alignment Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.4 Bridge Type and Size Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
5.5 (See Contingency Tasks)										0	$ -	$ -		
										0	$ -	$ -		
5.6 Active Transportation Analysis and Conceptual Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.7 Preferred Sullivan's Gulch Trail Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.8 Traffic Analysis, Conceptual Traffic Designs and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 6 – Preliminary Design

6.1 Advance PA Design to 30%	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 7 – Final Design

7.1 60% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
7.2 90% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
7.3 Draft Final PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 8 – Environmental Services														
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.5 Tree Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 9 – Geotechnical Services														$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	86	16	0	0	0	0	0	0	0	102	$ 20,962	$ -	$ 20,962
Initial Site review of project	4									4	$ 908	$ -	$ 908
Prepare top of rail profile	8	16								24	$ 3,256	$ -	$ 3,256
Assist with preparation of ODOT Order	34									34	$ 7,718	$ -	$ 7,718
UPRR Submittals - Concept Plan - Prepare, Assemble and Submit	12									12	$ 2,724	$ -	$ 2,724
UPRR Submittals - 30% Plans - Prepare, Assemble and Submit	12									12	$ 2,724	$ -	$ 2,724
UPRR Submittals - 100% Plans - Prepare, Assemble and Submit	12									12	$ 2,724	$ -	$ 2,724
Provide comments on final UP CMA	4									4	$ 908	$ -	$ 908
										0	$ -	$ -	$ -
Subtotal:	86	16	0	0	0	0	0	0	0	102	20962	0	$ 20,962

Subtotals Design and Permitting:	135	16	0	0	0	0	0	0	0	151	$ 32,085	$ 198	

Total Estimated Labor and Expenses Design / Permitting: $ 32,283

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.3 RFIs, Submittals and Shop Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Subtotals Bid / Construction:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		
										Total Estimated Budget - Bid / Construction Phase:	$ -			
Totals:	135	16	0	0	0	0	0	0	0	151	$ 32,085	$ 198		
										Total Estimated Budget - Non-contingency Tasks:	$ 32,283			

Contingency Tasks

Task C1.6 Additional Project Meetings														
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0		0		0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.4.1 Additional Type and Size Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -		$ -
Coordinate railroad permit for work beside Railroad R/W	12									12	$ 2,724	$ -	KPFF Added	$ 2,724
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	12	0	0	0	0	0	0	0	0	12	$ 2,724	$ -		$ 2,724

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Subtotals Contingency Tasks:	12	0	0	0	0	0	0	0	0	12	$ 2,724	$ -	

Total Estimated Budget - Contingency Tasks:	$ 2,724
Grand Total Budget - w/ Contingency Tasks:	$ 35,007

	Michael Minor & Assoc.												
Hourly Rate:	$140.00	$100.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	M. Minor (principal)	Field Tech	Staff 3	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination										0	$ -	$ -	$ -
1.2 Meetings during Design (see below)										0	$ -	$ -	$ -
1.3 QC and QA										0	$ -	$ -	$ -
1.4 Project Schedule and Schedule updates										0	$ -	$ -	$ -
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -	$ -
1.2 - Meetings during Design	3	0	0	0	0	0	0	0	0	3	$ 420	$ -	$ 420
1.2.1 Kickoff										0	$ -		$ -
1.2.2 Work Plan	3									3	$ 420	$ -	$ 420
1.2.3 Project Development Team (PDT) Meetings										0	$ -	$ -	$ -
1.2.4 General Project Design Coodination Meetings										0	$ -	$ -	$ -
Subtotal:	3	0	0	0	0	0	0	0	0	3	$ 420	$ -	$ 420
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Public events and Stakeholder briefings										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -	$ -
3.2.2 Demonstration Boards										0	$ -	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -	$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -	$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.3 Prepare Type II design review application										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 4 - Trail Alternetives Analysis													$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts.	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 5 – PreferredAlternative (PA) Report														$ -
5.1 Research and dat Gatherin g	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Alte rnatis An lysis Eluation Crite ri	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.3 Bridge Alignment Alte rtiaes Analys s i	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.4 Bridge Type and Size Al ernatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5. A dive Transportation Analysis and Conceptual Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5. Preferred Sull an's Gulch Trail Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 6 – Preliminary Design

6.1 Advance PA Design to 30%	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 7 – Final Design

7.1 60% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
7.2 90% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
7.3 Draft Final PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 8 – Environmental Services														
8.1 Noise Analysis	24	0	0	0	0	0	0	0	0	24	$ 3,360	$ -		$ 3,360
General noise analysis	16									16	$ 2,240	$ -		$ 2,240
Letters to cities of Portland and Vancouver	8									8	$ 1,120	$ -		$ 1,120
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.5 Tree Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	24	0	0	0	0	0	0	0	0	24	$ 3,360	$ -		$ 3,360
Task 9 – Geotechnical Services														$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -

Subtotals Design and Permitting:	27	0	0	0	0	0	0	0	0	27	$ 3,780	$ -	

Total Estimated Labor and Expenses Design / Permitting:	$ 3,780

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 14 – Construction Management

14.1 General Contruction Support / Meetings / Site Visits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.3 RFIs, Submittals and Shop Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Subtotals Bid / Construction:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		
										Total Estimated Budget - Bid / Construction Phase:	$ -			
Totals:	27	0	0	0	0	0	0	0	0	27	$ 3,780	$ -		
										Total Estimated Budget - Non-contingency Tasks:	$ 3,780			

Contingency Tasks

Task C1.6 Additional Project Meetings

										0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C2.5 Construction Staking

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

Detailed Noise Study and Monitoring	24	8								32	$ 4,160	$ -		$ 4,160
COP Noise Variance	12	2								14	$ 1,880	$ -		$ 1,880
COP meeting	6									6	$ 840	$ -		$ 840
										0	$ -	$ -		$ -
Subtotal:	42	10	0	0	0	0	0	0	0	52	$ 6,880	$ -		$ 6,880

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Subtotals Contingency Tasks:	42	10	0	0	0	0	0	0	0	52	$ 6,880	$ -	

Total Estimated Budget - Contingency Tasks:	$ 6,880
Grand Total Budget - w/ Contingency Tasks:	$ 10,660

	BIELLA LIGHTING DESIGN												
Hourly Rate:	$140.00	$140.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Staff 1	Staff 2	Staff 3	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination										0	$ -	$ -	$ -
1.2 Meetings during Design (see below)										0	$ -	$ -	$ -
1.3 QC and QA										0	$ -	$ -	$ -
1.4 Project Schedule and Schedule updates										0	$ -	$ -	$ -
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -	$ -
1.2 - Meetings during Design	3	0	0	0	0	0	0	0	0	3	$ 420	$ -	$ 420
1.2.1 Kickoff										0	$ -		$ -
1.2.2 Work Plan	3									3	$ 420	$ -	$ 420
1.2.3 Project Development Team (PDT) Meetings										0	$ -	$ -	$ -
1.2.4 General Project Design Coodination Meetings										0	$ -	$ -	$ -
Subtotal:	3	0	0	0	0	0	0	0	0	3	$ 420	$ -	$ 420
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Public events and Stakeholder briefings										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -	$ -
3.2.2 Demonstration Boards										0	$ -	$ -	$ -
3.2.3 Physical Models										0	$ -	$ -	$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -	$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
3.3 Prepare Type II design review application										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Task 4 - Trail Alternatives Analysis													$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts.	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	24	0	0	0	0	0	0	0	0	24	$ 3,360	$ -		$ 3,360
Meetings (work plan / Schematic design)	4									4	$ 560	$ -		$ 560
Preliminary fixture selection	10									10	$ 1,400	$ -		$ 1,400
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	24	0	0	0	0	0	0	0	0	24	$ 3,360	$ -		$ 3,360
Task 5 – Preferred Alternative (PA) Report														$ -
5.1 Research and data Gathering	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Alternatives Analysis Evaluation Criteria	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.3 Bridge Alignment Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.4 Bridge Type and Size Alternatives Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.5 (See Contingency Tasks)										0				
										0				
										0				
5.6 Active Transportation Analysis and Conseptual Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.7 Preferred Sullivan's Gulch Trail Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
						94				0	$ -	$ -		$ -
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$ -**	**$ -**		**$ -**
Task 6 – Preliminary Design														
6.1 Advance PA Design to 30%	24	0	0	0	0	0	0	0	0	24	$ 3,360	$ -		$ 3,360
Meetings (work plan / Schematic design)	6									6	$ 840	$ -		$ 840
Conceptual design development	10									10	$ 1,400	$ -		$ 1,400
Preliminary fixture selection	8									8	$ 1,120	$ -		$ 1,120
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	**24**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**24**	**$ 3,360**	**$ -**		**$ 3,360**
Task 7 – Final Design														$ -
7.1 60% PS&E	40	0	0	0	0	0	0	0	0	40	$ 5,600	$ -		$ 5,600
Meetings	4									4	$ 560	$ -		$ 560
Design development	16									16	$ 2,240	$ -		$ 2,240
Fixture selection and documentation	16									16	$ 2,240	$ -		$ 2,240
Markups	4									4	$ 560	$ -		$ 560
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.2 90% PS&E	28	0	0	0	0	0	0	0	0	28	$ 3,920	$ -		$ 3,920
Meetings	4									4	$ 560	$ -		$ 560
Calculations	8									8	$ 1,120	$ -		$ 1,120
Fixture selection and documentation	8									8	$ 1,120	$ -		$ 1,120
Markups / review	8									8	$ 1,120	$ -		$ 1,120
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.3 Draft Final PS&E	20	0	0	0	0	0	0	0	0	20	$ 2,800	$ -		$ 2,800
Meetings	2									2	$ 280	$ -		$ 280

Markups / drawings review from design team	8									8	$ 1,120	$ -		$ 1,120
Fixture selection and documentation	6									6	$ 840	$ -		$ 840
Energy Code Documentation	4									4	$ 560	$ -		$ 560
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	16	0	0	0	0	0	0	0	0	16	$ 2,240	$ -		$ 2,240
Meetings	2									2	$ 280	$ -		$ 280
Final drawings review and markups	8									8	$ 1,120	$ -		$ 1,120
Fixture selection and documentation	6									6	$ 840	$ -		$ 840
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	104	0	0	0	0	0	0	0	0	104	$ 14,560	$ -		$ 14,560
Task 8 – Environmental Services														
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.5 Tree Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 9 – Geotechnical Services														$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -

Subtotals Design and Permitting:	155	0	0	0	0	0	0	0	0	155	$ 21,700	$ -	

Total Estimated Labor and Expenses Design / Permitting: $ 21,700

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	8	0	0	0	0	0	0	0	0	8	$ 1,120	$ -	$ 1,120
site visits during construction (max)	4									4	$ 560	$ -	$ 560
punch list site visit	4									4	$ 560	$ -	$ 560

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.3 RFIs, Submittals and Shop Drawings	24	0	0	0	0	0	0	0	0	24	$ 3,360	$ -		$ 3,360
submittal review	8									8	$ 1,120	$ -		$ 1,120
RFIs	16									16	$ 2,240	$ -		$ 2,240
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	32	0	0	0	0	0	0	0	0	32	$ 4,480	$ -		$ 4,480
Subtotals Bid / Construction:	32	0	0	0	0	0	0	0	0	32	$ 4,480	$ -		
										Total Estimated Budget - Bid / Construction Phase:	$ 4,480			
Totals:	187	0	0	0	0	0	0	0	0	187	$ 26,180	$ -		
										Total Estimated Budget - Non-contingency Tasks:	$ 26,180			

Contingency Tasks

Task C1.6 Additional Project Meetings

										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Subtotals Contingency Tasks:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	

Total Estimated Budget - Contingency Tasks:	$ -
Grand Total Budget - w/ Contingency Tasks:	$ 26,180

	David Place Construction Consultant												
Hourly Rate:	$190.00	$125.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Sole Proprietor	Staff 2	Staff 3	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination										0	$ -	$ -	
1.2 Meetings during Design (see below)										0	$ -	$ -	
1.3 QC and QA										0	$ -	$ -	
1.4 Project Schedule and Schedule updates										0	$ -	$ -	
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -	
1.2 - Meetings during Design	11									11	$ 2,090	$ -	
1.2.1 Kickoff - 4hrs x 1	3									3	$ 570		
1.2.2 Work Plan - 4 hrs x 1	4									4	$ 760	$ -	
1.2.3 Project Development Team (PDT) Meetings - 2 hrs x 2	4									4	$ 760	$ -	
1.2.4 General Project Design Coodination Meetings										0	$ -	$ -	
Subtotal:	11	0	0	0	0	0	0	0	0	11	$ 2,090	$ -	
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
2.2 - Preferred Alternative Datialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
Public events and Stakeholder briefings										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -	
3.2.2 Demonstration Boards										0	$ -	$ -	
3.2.3 Physical Models										0	$ -	$ -	
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -	
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
3.3 Prepare Type II design review application										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
										0	$ -	$ -	
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	
Task 4 - Trail Alternatives Analysis													
4.1 - Deve.bp and Evaluate up to 3 trail alignment alts.	0	0	0	0	0	0	0	0	0	0	$ -	$ -	

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 5 – Preferred Alternative (PA) Report														$ -
5.1 Research and data Gathering	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Alternatives Analysis Evaluation Criteria	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.3 Bridge Alignment Alternatives Analysis	16	0	0	0	0	0	0	0	0	16	$ 3,040	$ -		$ 3,040
Constructability Reviews - 4 Types	8									8	$ 1,520	$ -		$ 1,520
Cost Estimate Reviews - 4 Types	8									8	$ 1,520	$ -		$ 1,520
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.4 Bridge Type and Size Alternatives Analysis	32	0	0	0	0	0	0	0	0	32	$ 6,080	$ -		$ 6,080
Constructability Reviews - 4 Types	16									16	$ 3,040	$ -		$ 3,040
Cost Estimate Reviews - 4 Types	16									16	$ 3,040	$ -		$ 3,040
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.5 (See Contingency Tasks)										0	$ -	$ -		
										0	$ -	$ -		
										0	$ -	$ -		
5.6 Active Transportation Analysis and Conceptual Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.7 Preferred Sullivan's Gulch Trail Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.8 Traffic Analysis, Conceptual Traffic Designs, and TMP	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	48	0	0	0	0	0	0	0	0	48	$ 9,120	$ -		$ 9,120
Task 6 – Preliminary Design														
6.1 Advance PA Design to 30%	40	0	0	0	0	0	0	0	0	40	$ 7,600	$ -		$ 7,600
Select Cost Estimates - steel erection & foundations	24									24	$ 4,560	$ -		$ 4,560
Constructability Review of Fabrication, Delivery to Site	16									16	$ 3,040	$ -		$ 3,040
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	40	0	0	0	0	0	0	0	0	40	$ 7,600	$ -		$ 7,600
Task 7 – Final Design														$ -
7.1 60% PS&E	48	0	0	0	0	0	0	0	0	48	$ 9,120	$ -		$ 9,120
Statement of Work review	8									8	$ 1,520	$ -		$ 1,520
Develop Construction Schedule	40									40	$ 7,600	$ -		$ 7,600
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.2 90% PS&E	12	0	0	0	0	0	0	0	0	12	$ 2,280	$ -		$ 2,280
Cost Review	12									12	$ 2,280	$ -		$ 2,280
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.3 Draft Final PS&E	24	0	0	0	0	0	0	0	0	24	$ 4,560	$ -		$ 4,560
Updated for 90% PS&E Costs	8									8	$ 1,520	$ -		$ 1,520

Updates for 90% Review Construction Schedule	16									16	$ 3,040	$ -		$ 3,040
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
No work										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	84	0	0	0	0	0	0	0	0	84	$ 15,960	$ -		$ 15,960
Task 8 – Environmental Services														
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.5 Tree Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 9 – Geotechnical Services														$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -

Subtotals Design and Permitting:	183	0	0	0	0	0	0	0	0	183	$ 34,770	$ -	

Total Estimated Labor and Expenses Design / Permitting:	$ 34,770

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
Skip										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	19	0	0	0	0	0	0	0	0	19	$ 3,610	$ -	$ 3,610
Meeting for Construction Support	16									16	$ 3,040	$ -	$ 3,040
Pre-Con - 3 hrs x 1	3									3	$ 570	$ -	$ 570

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.3 RFIs, Submittals and Shop Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.4 Project Change orders	20	0	0	0	0	0	0	0	0	20	$ 3,800	$ -		$ 3,800
Change Orders - Entitlement - Cost and Time Reviews - 4hrs x 5 Each	20									20	$ 3,800	$ -		$ 3,800
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	39	0	0	0	0	0	0	0	0	39	$ 7,410	$ -		$ 7,410

Subtotals Bid / Construction:	39	0	0	0	0	0	0	0	0	39	$ 7,410	$ -		

Total Estimated Budget - Bid / Construction Phase:	$ 7,410

Totals:	222	0	0	0	0	0	0	0	0	222	$ 42,180	$ -		

Total Estimated Budget - Non-contingency Tasks:	$ 42,180

Contingency Tasks

Task C1.6 Additional Project Meetings

										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

Another bridge type 25% of base scope = 0.25 x 200 MHRS = 50 Hrs	50									50	$ 9,500	$ -		$ 9,500
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	50	0	0	0	0	0	0	0	0	50	$ 9,500	$ -		$ 9,500

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

Another bridge type 25% of base scope = 0.25 x 200 MHRS = 50 Hrs	50									50	$ 9,500	$ -		$ 9,500
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	50	0	0	0	0	0	0	0	0	50	$ 9,500	$ -		$ 9,500

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
S btotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Subtotals Contingency Tasks:	100	0	0	0	0	0	0	0	0	100	$ 19,000	$ -	

Total Estimated Budget - Contingency Tasks:	$ 19,000
Grand Total Budget - w/ Contingency Tasks:	$ 61,180

	Morgan Holen & Associates, LLC (MHA)												
Hourly Rate:	$150.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00				
Staff Position:	Arborist	Staff 2	Staff 3	Staff 4	Staff 5	Staff 6	Staff 7	Staff 8	Staff 9	Hours	Labor Cost	Expenses	Notes:
Task 1 - Project Management													
1.1 Project Management & Coordination										0	$ -	$ -		$ -
1.2 Meetings during Design (see below)										0	$ -	$ -		$ -
1.3 QC and QA										0	$ -	$ -		$ -
1.4 Project Schedule and Schedule updates										0	$ -	$ -		$ -
1.5 Monthly Invoices & Progress Reports										0	$ -	$ -		$ -
1.2 - Meetings during Design	4	0	0	0	0	0	0	0	0	4	$ 600	$ 40		$ 640
1.2.1 Kickoff	4									4	$ 600	$ 40		$ 640
1.2.2 Work Plan										0	$ -	$ -		$ -
1.2.3 Project Development Team (PDT) Meetings										0	$ -	$ -		$ -
1.2.4 General Project Design Coodination Meetings										0	$ -	$ -		$ -
Subtotal:	4	0	0	0	0	0	0	0	0	4	$ 600	$ 40		$ 640
Task 2 - Survey													
2.1 - Preliminary Mapping for Alternatives Study	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
2.2 - Preferred Alternative Detialed Design Base Mapping	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
2.3 - Pre and Post Construction Record of Survey	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Tasks 2.4 and 2.5 - See Contingency Tasks	0	0	0	0	0	0	0	0	0	0	$ -	$ -		
										0	$ -	$ -		
										0	$ -	$ -		
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 3 - Public Involvement Support													
3.1 Public Event Meeting Preparation, Participation, and Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Public events and Stakeholder briefings										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
3.2 Presentation Graphics	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
3.2.1 Artist Sketches and Diagrams										0	$ -	$ -		$ -
3.2.2 Demonstration Boards										0	$ -	$ -		$ -
3.2.3 Physical Models										0	$ -	$ -		$ -
3.2.4 Static Visual Modeling / Rendering										0	$ -	$ -		$ -
3.2.5 Dynamic Visual Modeling / Rendering										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
3.3 Type II Design Review Application	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
3.3 Prepare Type II design review application										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 4 - Trail Alternatives Analysis														$ -
4.1 - Develop and Evaluate up to 3 trail alignment alts.	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
4.2 Prepare Trails Alternatve Analysis Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subt tal: o	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 5 – Preferred Alternative (PA) Re po rt														$ -
5..1Research and data Gatheri. o n_	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.2 - Altenatives Analysis Eval at ruCri.teria	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.3 Bri dg Align men t Alternati ve s An a , sy si	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5. 4 Brydgeed Sia. ealternatives .nalysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
5.5 (See Contingency Tasks)										0	$	$		
										0	$	$		
										0	$	$		
5.6 Actve ra ils po rta ti ona Aly and Co cept al Design	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.7 Preferred Su l lian' svGle h Tral Alignment	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
5.8 Tra fficAnalys is nceQtia trauffi cnDesnig TM P	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

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										0	$ -	$ -		$ -
5.9 Preferred Alternatives (PA) Report	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 6 – Preliminary Design														
6.1 Advance PA Design to 30%	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 7 – Final Design														$ -
7.1 60% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
7.2 90% PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
7.3 Draft Final PS&E	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
7.4 Final (100%) PS&E - Signed and Stamped	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
Task 8 – Environmental Services														
8.1 Noise Analysis	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.2 Cultural Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.3 Wetland and Biological Resources	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.4 Hazardous Materials	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
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										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
8.5 Tree Inventory and Arborist Report	42	0	0	0	0	0	0	0	0	42	$ 6,300	$ 100		$ 6,400
Tree Assessment - Fieldwork	8									8	$ 1,200	$ 40		$ 1,240
Urban Forestry Site Meeting	4									4	$ 600	$ 40		$ 640
Coordination with Design Team	16									16	$ 2,400	$ -		$ 2,400
Arborist Report	6									6	$ 900	$ -		$ 900
Design Review / Respond to Reviewer's Qs/Comments	8									8	$ 1,200	$ 20		$ 1,220
										0	$ -	$ -		$ -
Subtotal:	42	0	0	0	0	0	0	0	0	42	$ 6,300	$ 100		$ 6,400
Task 9 – Geotechnical Services														$ -
Task 9 – Geotechnical Services	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
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										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 10 – Utility Coordination

Task 10 - Utility Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
													$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 11 – Permits

Task 11 - Permits	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 12 – Railroad Coordination

Task 12 railroad Coordination	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	0	0	$ -

Subtotals Design and Permitting:	46	0	0	0	0	0	0	0	0	46	$ 6,900	$ 140	

Total Estimated Labor and Expenses Design / Permitting: $ 7,040

Task 13 – Bid Phase Assistance

Task 13 Bid Assistance	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task 14 – Construction Management

14.1 General Construction Support / Meetings / Site Visits	12	0	0	0	0	0	0	0	0	12	$ 1,800	$ -	$ 1,800
	12									12	$ 1,800	$ -	$ 1,800
										0	$ -	$ -	$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.2 Prepare design Modifications	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.3 RFIs, Submittals and Shop Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.4 Project Change orders	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.5 Geotechnical Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.6 On-Call Archaeological Support	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.7 As-constructed Drawings	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
14.8 Initial Bridge Load Rating	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	12	0	0	0	0	0	0	0	0	12	$ 1,800	$ -	$ 1,800
Subtotals Bid / Construction:	12	0	0	0	0	0	0	0	0	12	$ 1,800	$ -	
											Total Estimated Budget - Bid / Construction Phase:	$ 1,800	
Totals:	58	0	0	0	0	0	0	0	0	58	$ 8,700	$ 140	
											Total Estimated Budget - Non-contingency Tasks:	$ 8,840	

Contingency Tasks

Task C1.6 Additional Project Meetings

										0	$ -	$ -	$ -

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.4 Develop Legal descriptions and Exhibits for R/W Acquisition or Temp Constr. Easements

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C2.5 Construction Staking

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C3.1.1 Public Involvement - Additional Community Meeting

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.4.1 Additional Type and Size Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C5.5 Higher Level of Effort for Bridge Alt. Analysis

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C6.2 30% Design Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -		$ -

Task C7.5 Final Design- Alternate Intersection Design

										0	$ -	$ -		$ -
										0	$ -	$ -		$ -
										0	$ -	$ -		$ -

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C8.1.2 Prepare for and Attend Noise Review Board Meeting

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C8.2.1 Shovel Testing and SHPO permit Application

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C8.2.2 Determination of Eligibility and Finding of Effect

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C8.3.2 Permit Acquisition and Environmental Compliance

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C9.2.1 Additional Soil Boring

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Task C10.3 Utility Relocation Facilitation

										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
										0	$ -	$ -	$ -
Subtotal:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	$ -

Subtotals Contingency Tasks:	0	0	0	0	0	0	0	0	0	0	$ -	$ -	

Total Estimated Budget - Contingency Tasks: $ -

Grand Total Budget - w/ Contingency Tasks: $ 8,840