AGREEMENT
FOR PROFESSIONAL SERVICES
BETWEEN
THE CITY OF SALINAS AND WALLACE GROUP

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AGREEMENT FOR PROFESSIONAL SERVICES BETWEEN THE CITY OF SALINAS AND WALLACE GROUP

This Agreement for Professional Services (the "Agreement" and/or "Contract") is made and entered into this 16th day of June, 2026, between the City of Salinas, a California Charter city and municipal corporation (hereinafter "City"), and Wallace Group, a California Corporation (hereinafter "Consultant").

RECITALS

WHEREAS, Consultant represents that he, she, or it is specially trained, experienced, and competent to perform the special services which will be required by this Agreement; and

WHEREAS, Consultant is willing to render such professional services, as hereinafter defined, on the following terms and conditions.

NOW, THEREFORE, City and Consultant agree as follows:

TERMS

1. Scope of Service. The project contemplated and the scope of Consultant's services are described in Exhibit B, attached hereto and incorporated herein by reference.

2. Term; Completion Schedule. This Agreement shall commence on June 16, 2026, and shall terminate on March 31, 2032, unless extended in writing by either party upon (30) days written notice. This Agreement may be extended only upon mutual written consent of the parties and may be terminated only pursuant to the terms of this Agreement.

3. Compensation. City hereby agrees to pay Consultant for services rendered the City pursuant to this Agreement on a time and materials basis according to the rates of compensation as set forth in Exhibit B. The total amount of compensation to be paid under this Agreement shall not exceed $4,285,958.

4. Billing. Consultant shall submit to City an itemized invoice, prepared in a form satisfactory to City, describing its services and costs for the period covered by the invoice. Except as specifically authorized by City, Consultant shall not bill City for duplicate services performed by more than one person. Consultant's bills shall include the following information to which such services cost or pertain:

(A) A brief description of services performed;

(B) The date the services were performed;

(C) The number of hours spent and by whom;

(D) A brief description of any costs incurred; and

(E) The Consultant's signature.

Any such invoices shall be in full accord with any and all applicable provisions of this Agreement.

City shall make payment on each such invoice within thirty (30) days of receipt; provided, however, that if Consultant submits an invoice which is incorrect, incomplete, or not in accord with the provisions of this Agreement, City shall not be obligated to process any payment to Consultant until thirty (30) days after a correct and complying invoice has been submitted by Consultant. The City shall process undisputed portion immediately.

5. Meet & Confer. Consultant agrees to meet and confer with City or its agents or employees with regard to services as set forth herein as may be required by the City to ensure timely and adequate performance of the Agreement.

6. Additional Copies. If City requires additional copies of reports, or any other material which Consultant is required to furnish as part of the services under this Agreement, Consultant shall provide such additional copies as are requested, and City shall compensate Consultant for the actual costs related to the production of such copies by Consultant.

7. Responsibility of Consultant. By executing this Agreement, Consultant agrees that the services to be provided and work to be performed under this Agreement shall be performed in a fully competent manner. By executing this Agreement, Consultant further agrees and represents to City that the Consultant possesses, or shall arrange to secure from others, all of the necessary professional capabilities, experience, resources, and facilities necessary to provide the City the services contemplated under this Agreement and that City relies upon the professional skills of Consultant to do and perform Consultant's work. Consultant further agrees and represents that Consultant shall follow the current, generally accepted practices in this area to the profession to make findings, render opinions, prepare factual presentations, and provide professional advice and recommendations regarding the projects for which the services are rendered under this Agreement.

8. Responsibility of City. To the extent appropriate to the projects to be completed by Consultant pursuant to this Agreement, City shall:

(A) Assist Consultant by placing at its disposal all available information pertinent to the projects, including but not limited to, previous reports and any other data relative to the projects. Nothing contained herein shall obligate City to incur any expense in connection with completion of studies or acquisition of information not otherwise in the possession of City.

(B) Examine all studies, reports, sketches, drawings, specifications, proposals, and other documents presented by Consultant, and render verbally or in writing as may be appropriate, decisions pertaining thereto within a reasonable time so as not to delay the services of Consultant.

(C) City Manager, or his designee, shall act as City's representative with respect to the work to be performed under this Agreement. Such person shall have the complete authority to transmit instructions, receive information, interpret and define City's policies and decisions with respect to materials, equipment, elements, and systems pertinent to Consultant's services. City may unilaterally change its representative upon notice to the Consultant.

(D) Give prompt written notice to Consultant whenever City observes or otherwise becomes aware of any defect in a project.

9. Acceptance of Work Not a Release. Acceptance by the City of the work to be performed under this Agreement does not operate as a release of Consultant from professional responsibility for the work performed.

10. Indemnification and Hold Harmless.

Pursuant to the full language of California Civil Code §2782, design Consultant agrees to indemnify, including the cost to defend, City and its officers, officials, employees, and volunteers from and against any and all claims, demands, costs, or liability that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of design Consultant and its employees or agents in the performance of services under this contract, but this indemnity does not apply to liability for damages arising from the sole negligence, active negligence, or willful acts of the City; and does not apply to any passive negligence of the City unless caused at least in part by the design Consultant. The City agrees that in no event shall the cost to defend charged to the design Consultant exceed that professional's proportionate percentage of fault. This duty to indemnify shall not be waived or modified by contractual agreement or acts of the parties.

11. Insurance. Consultant shall procure and maintain for the duration of this Agreement insurance meeting the requirements specified in Exhibit A hereto.

12. Access to Records. Consultant shall maintain all preparatory books, records, documents, accounting ledgers, and similar materials including but not limited to calculation and survey notes relating to work performed for the City under this Agreement on file for at least three (3) years following the date of final payment to Consultant by City. Any duly authorized representative(s) of City shall have access to such records for the purpose of inspection, audit, and copying at reasonable times during Consultant's usual and customary business hours. Consultant shall provide proper facilities to City's representative(s) for such access and inspection.

13. Non-Assignability. It is recognized by the parties hereto that a substantial inducement to City for entering into this Agreement was, and is, the professional reputation and competence of Consultant. This Agreement is personal to Consultant and shall not be assigned by it without express written approval of the City.

14. Changes to Scope of Work. City may at any time, and upon a minimum of ten (10) days written notice, seek to modify the scope of services to be provided for any project to be completed under this Agreement. Consultant shall, upon receipt of said notice, determine the impact on both time and compensation of such change in scope and notify City in writing. Upon agreement between City and Consultant as to the extent of said impacts to time and compensation, an amendment to this Agreement shall be prepared describing such changes. Execution of the amendment by City and Consultant shall constitute the Consultant's notice to proceed with the changed scope.

15. Ownership of Documents. Title to all final documents, including drawings, specifications, data, reports, summaries, correspondence, photographs, computer software (if purchased on the City's behalf), video and audio tapes, software output, and any other materials with respect to work performed under this Agreement shall vest with City at such time as City has compensated Consultant, as provided herein, for the services rendered by Consultant in connection with which they were prepared. City agrees to hold harmless and indemnify the Consultant against all damages, claims, lawsuits, and losses of any kind including defense costs arising out of any use of said documents, drawings, and/or specifications on any other project without written authorization of the Consultant.

16. Termination.

(A) City shall have the authority to terminate this Agreement, upon ten days written notice to Consultant, as follows:

(1) If in the City's opinion the conduct of the Consultant is such that the interest of the City may be impaired or prejudiced, or

(2) For any reason whatsoever.

(B) Upon termination, Consultant shall be entitled to payment of such amount as fairly compensates Consultant for all work satisfactorily performed up to the date of termination based upon the Consultant's rates shown in Exhibit B and/or Section 3 of this Agreement, except that:

(1) In the event of termination by the City for Consultant's default, City shall deduct from the amount due Consultant the total amount of additional expenses incurred by City as a result of such default. Such deduction from amounts due Consultant are made to compensate City for its actual additional costs incurred in securing satisfactory performance of the terms of this Agreement, including but not limited to, costs of engaging another consultant(s) for such purposes. In the event that such additional expenses shall exceed amounts otherwise due and payable to Consultant hereunder, Consultant shall pay City the full amount of such expense.

(C) In the event that this Agreement is terminated by City for any reason, Consultant shall:

(1) Upon receipt of written notice of such termination promptly cease all services on this project, unless otherwise directed by City; and

(2) Deliver to City all documents, data, reports, summaries, correspondence, photographs, computer software output, video and audio tapes, and any other materials provided to Consultant or prepared by or for Consultant or the City in connection with this Agreement. Such material is to be delivered to City in completed form; however, notwithstanding the provisions of Section 15 herein, City may condition payment for services rendered to the date of termination upon Consultant's delivery to the City of such material.

(D) In the event that this Agreement is terminated by City for any reason, City is hereby expressly permitted to assume the projects and complete them by any means, including but not limited to, an agreement with another party.

(E) The rights and remedy of the City and Consultant provided under this Section are not exclusive and are in addition to any other rights and remedies provided by law or appearing in any other section of this Agreement.

(1) Consultant may suspend or terminate this Agreement, upon written notice to the City, as follows:
(2) Due to failure of the City to make payments when due, unless and until Consultant has been paid in full all amounts due for services, expenses and other approved related charges. Consultant shall have no liability whatsoever to the City for any costs or damages as a result of such suspension or termination caused by any breach of this Agreement by the City. Upon payment in-full by the City, Consultant shall resume services under this Agreement as mutually agreed upon, and the time schedule and compensation shall be equitably adjusted to compensate for the period of suspension plus any reasonable time and expense necessary for the Consultant to resume performance.

17. Compliance with Laws, Rules, and Regulations. Services performed by Consultant pursuant to this Agreement shall be performed in accordance and full compliance with all applicable federal, state, and City laws and any rules or regulations promulgated thereunder.

18. Exhibits Incorporated. All exhibits referred to in this Agreement and attached to it are hereby incorporated in it by this reference. In the event there is a conflict between any of the terms of this Agreement and any of the terms of any exhibit to the Agreement, the terms of the Agreement shall control the respective duties and liabilities of the parties.

19. Independent Contractor. It is expressly understood and agreed by both parties that Consultant, while engaged in carrying out and complying with any of the terms and conditions of this Agreement, is an independent contractor and not an employee of the City. Consultant expressly warrants not to represent, at any time or in any manner, that Consultant is an employee or servant of the City.

20. Integration and Entire Agreement. This Agreement represents the entire understanding of City and Consultant as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters contained herein. This Agreement may not be modified or altered except by amendment in writing signed by both parties.

21. Jurisdiction and Venue. This Agreement shall be governed by and construed in accordance with the laws of the State of California, County of Monterey, and City of Salinas. Jurisdiction of litigation arising from this Agreement shall be in the State of California, in the County of Monterey or in the appropriate federal court with jurisdiction over the matter.

22. Severability. If any part of this Agreement is found to be in conflict with applicable laws, such part shall be inoperative, null and void insofar as it is in conflict with said laws, but the remainder of the Agreement shall continue to be in full force and effect.

23. Notices.

(A) Written notices to the City hereunder shall, until further notice by City, be addressed to:

City Manager
City of Salinas
200 Lincoln Avenue
Salinas, California 93901

With a copy to:

City Attorney
City of Salinas
200 Lincoln Avenue
Salinas, California 93901

(B) Written notices to the Consultant shall, until further notice by the Consultant, be addressed to:

Wallace Group
ATTN: Jorge Aguilar, PE
Principal
612 Clarion Ct
San Luis Obispo, California 93401
(805) 544-4011
jorgea@wallacegroup.us

(C) The execution of any such notices by the City Manager shall be effective as to Consultant as if it were by resolution or order of the City Council, and Consultant shall not question the authority of the City to execute any such notice.

(D) All such notices shall either be delivered personally to the other party's designee named above, or shall be deposited in the United States Mail, properly addressed as aforesaid, postage fully prepaid, and shall be effective the day following such deposit in the mail.

24. Nondiscrimination. During the performance of this Agreement, Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, ancestry, creed, sex, national origin, familial status, sexual orientation, age (over 40 years) or disability. Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, ancestry, creed, sex, national origin, familial status, sexual orientation, age (over 40 years) or disability.

25. Conflict of Interest. Consultant warrants and declares that it presently has no interest, and shall not acquire any interest, direct or indirect, financial or otherwise, in any manner or degree which will render the services required under the provisions of this Agreement a violation of any applicable local, state or federal law. Consultant further declares that, in the performance of this Agreement, no subcontractor or person having such an interest shall be employed. In the event that any conflict of interest should nevertheless hereinafter arise, Consultant shall promptly notify City of the existence of such conflict of interest so that City may determine whether to terminate this Agreement. Consultant further warrants its compliance with the Political Reform Act (Government Code section 81000 et seq.) and Salinas City Code Chapter 2A that apply to Consultant as the result of Consultant's performance of the work or services pursuant to the terms of this Agreement.

26. Headings. The section headings appearing herein shall not be deemed to govern, limit, modify, or in any manner affect the scope, meaning or intent of the provisions of this Agreement.

27. Attorneys' Fees. In case suit shall be brought to interpret or to enforce this Agreement, or because of the breach of any other covenant or provision herein contained, the prevailing party in such action shall be entitled to recover their reasonable attorneys' fees in addition to such costs as may be allowed by the Court. City's attorneys' fees, if awarded, shall be calculated at the market rate.

28. Non-Exclusive Agreement. This Agreement is non-exclusive and both City and Consultant expressly reserves the right to contract with other entities for the same or similar services.

29. Rights and Obligations Under Agreement. By entering into this Agreement, the parties do not intend to create any obligations express or implied other than those set out herein; further, this Agreement shall not create any rights in any party not a signatory hereto.

30. Licenses. If a license of any kind, which term is intended to include evidence of registration, is required of Consultant, its representatives, agents or subcontractors by federal, state or local law, Consultant warrants that such license has been obtained, is valid and in good

standing, and that any applicable bond posted in accordance with applicable laws and regulations.

31. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute a single agreement.

32. Legal Representation. Each party affirms that it has been represented, if it so chose, by legal counsel of its own choosing regarding the preparation and the negotiation of this Agreement and the matters and claims set forth herein, and that each of them has read this Agreement and is fully aware of its contents and its legal effect. Neither party is relying on any statement of the other party outside the terms set forth in this Agreement as an inducement to enter into this Agreement.

33. Joint Representation. The language of all parts of this Agreement shall in all cases be construed as a whole, according to its fair meaning, and not strictly for or against any party. No presumptions or rules of interpretation based upon the identity of the party preparing or drafting the Agreement, or any part thereof, shall be applicable or invoked.

34. Warranty of Authority. Each party represents and warrants that it has the right, power, and authority to enter into this Agreement. Each party further represents and warrants that it has given any and all notices, and obtained any and all consents, powers, and authorities, necessary to permit it, and the persons entering into this Agreement for it, to enter into this Agreement.

35. No Waiver of Rights. Waiver of a breach or default under this Agreement shall not constitute a continuing waiver or a waiver of a subsequent breach of the same or any other provision of this Agreement. The failure to provide notice of any breach of this Agreement or failure to comply with any of the terms of this Agreement shall not constitute a waiver thereof. Failure on the part of either party to enforce any provision of this Agreement shall not be construed as a waiver of the right to compel enforcement of such provision or any other provision. A waiver by the City of any one or more of the conditions of performance under this Agreement shall not be construed as waiver(s) of any other condition of performance under this Agreement.

36. Subject to Availability of Funds. In the event that the City Council, or other governing body, fails to appropriate or budget sufficient funds for the continuation of this agreement, or should funds become unavailable for any other reason, the City reserves the right to terminate this agreement upon written notice. This termination shall be effective as of the last day of the fiscal year for which funds were appropriated. Upon such termination, the Consultant will be limited to compensation for satisfactory services rendered up to the termination date.

37. Levine Act Disclosure Compliance (Cal Government Code Sec. 84308). Consultant hereby affirms and warrants that it has not contributed to the campaign of any elected or appointed City official an amount totaling more than $500 within twelve (12) months of the effective date of this Agreement, except as Consultant has disclosed within its Levine Act Disclosure Form submitted by Consultant to the City. Consultant agrees, that in the event it makes any contributions subject to the Levine Act's disclosure requirements within twelve (12)

months of the effective date of this Agreement, that it will file a Levine Act Disclosure Form (or Forms). Consultant acknowledges this duty of disclosure and that the City has made the Levine Act Disclosure Form(s) readily available on the City's public internet site under Your Government / Transparency section for Consultant's continuous compliance.

38. Electronic Execution of Agreement. The words "execution," "signed," "signature," and words of like import in this Agreement and shall be deemed to include electronic signatures or electronic records (including, without limitation, DocuSign and AdobeSign), each of which shall be of the same legal effect, validity, enforceability, and admissibility as a handwritten signature.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement on the date first written above.

CITY OF SALINAS

_____
René Mendez, City Manager

APPROVED AS TO FORM:

_____
□ Christopher A. Callihan, City Attorney, or
□ Rhonda Combs, Assistant City Attorney

CONSULTANT

_____

By (Printed Name): Jorge Aguilar, PE 48704
Its (Title): Principal

Insurance Requirements

Consultant shall procure and maintain for the duration of the Agreement insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Consultant, his agents, representatives, employees, or subcontractors. With respect to General Liability and Professional Liability, coverage should be maintained for a minimum of five (5) years after Agreement completion.

MINIMUM SCOPE AND LIMIT OF INSURANCE

Coverage shall be at least as broad as:

(A) Commercial General Liability ("CGL"): Insurance Services Office Form ("ISO") CG 00 01 covering CGL on an occurrence basis, including products and completed operations, property damage, bodily injury, and personal & advertising injury with limits no less than **$1,000,000** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.

(B) Automobile Liability: ISO Form CA 0001 covering any auto, or if Consultant has no owned autos, hired and non-owned, with limits no less than **$1,000,000** per accident for bodily injury and property damage.

(C) Workers' Compensation insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with a limit of no less than **$1,000,000** per accident for bodily injury or disease.

(D) Professional Liability (also known as Errors and Omissions) insurance appropriate to the work being performed, with limits no less than **$1,000,000** per occurrence or claim, **$2,000,000** aggregate per policy period of one year.

If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, the City of Salinas requires and shall be entitled to the broader coverage and/or higher limits maintained by the Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.

OTHER INSURANCE PROVISIONS

The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status

The City of Salinas, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10, CG 11 85, or **both** CG 20 10, CG 20 26, CG 20 33, or CG 20 38; **and** CG 20 37 forms if later revisions used).

Primary Coverage

For any claims related to this Agreement or the project described within this Agreement, the **Consultant's insurance coverage shall be primary coverage, except for Professional Liability and Workers Compensation,** at least as broad as ISO Form CG 20 01 04 13 as respects the City, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, employees, or volunteers shall be excess of the Consultant's insurance and shall not contribute with it.

Notice of Cancellation
Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the City.

Waiver of Subrogation
Consultant hereby grants to City a waiver of any right to subrogation which any insurer of said Consultant may acquire against the City by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the City has received a waiver of subrogation endorsement from the insurer.

The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the City of Salinas for all work performed by the Consultant, its employees, agents, and subcontractors.

Self-Insured Retentions
Self-insured retentions must be declared by Consultant to and approved by the City. At the option of the City, Consultant shall provide coverage to reduce or eliminate such self-insured retentions as respects the City, its officers, officials, employees, and volunteers; or the consultant shall provide evidence satisfactory to the City guaranteeing payment of losses and related investigations, claim administrations, and defense expenses. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or City.

Acceptability of Insurers
Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII, unless otherwise acceptable to the City.

Claims Made Policies
If any of the required policies provide coverage on a claims-made basis:

1. The Retroactive Date must be shown and must be before the date of this Agreement or the beginning of Agreement work.
2. Insurance must be maintained and evidence of insurance must be provided ***for at least five (5) years after completion of the Agreement of work.***
3. If coverage is canceled or non-renewed, and not ***replaced with another claims-made policy form with a Retroactive Dat***e prior to the Agreement effective date, the Consultant must purchase "extended reporting" coverage for a minimum of ***five (5)*** years after completion of Agreement work.
4. A copy of the claims reporting requirements must be submitted to the City for review.

Verification of Coverage

Consultant shall furnish the City with original certificates and amendatory endorsements or copies of the applicable insurance language effecting coverage required by this Agreement. All certificates and endorsements are to be received and approved by the City before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Subcontractors
Consultant shall require and verify that all sub-consultants and/or subcontractors maintain insurance meeting all the requirements stated herein, and Consultant shall ensure that City is an additional insured on insurance required from such sub-consultants and/or subcontractors.

Special Risks or Circumstances
City reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

Maintenance of Insurance
Maintenance of insurance by Consultant as specified shall in no way be interpreted as relieving Consultant of its indemnification obligations or any responsibility whatsoever and the Consultant may carry, at its own expense, such additional insurance as it deems necessary.

Scope of Service; Compensation
(See Attached Exhibit B)

EXHIBIT "B"

The Wallace Group team is grateful to have been selected to provide civil engineering design services for Phase 2 of the Boronda Road Congestion Relief Project and is eager to continue the good work started with Phase 1! We enjoy working with the City and the camaraderie we have built. To that end, we would like to be transparent with our approach for scoping and budgeting for the project. We met as a team and defined tasks best suited for each team member and have built in overlapping quality control to provide the best final product. Our team came together to develop the following detailed scope of work tailored to this project and identified tasks needed to deliver these projects from final design through design support during construction.

The attached team budget was developed using a "ground up" approach: estimating number of hours per person per task. After this we compared the total support costs to the estimated construction costs for Phase 2. In 2020, our team developed ballpark construction costs for the corridor for use in a grant. We applied the growth ratio observed from the Phase 1 65% level cost estimate to the actual 2023 low bid results and applied an escalation rate to determine the approximate construction costs for Phase 2a and 2b at the time of their anticipated construction. With construction anticipated to be underway in 2028 for Phase 2a and 2030 for Phase 2b, construction costs were estimated to be approximately $22.7M and $39.6M, respectively. Our "ground up" budget estimate is approximately 7% of the total estimated construction costs, which seems appropriate for a large project such as this.

SCOPE OF SERVICES

Task 1: Project Management and Meetings

Task 1.1 Project Management
This task consists of project management and coordination throughout the anticipated up to 63-month duration of the project, including bidding support and construction support for both project phases. This task includes project setup with staff and subconsultants, internal administration, budget/schedule monitoring, monthly reporting, and services invoicing for the project.

Task 1.2 Meetings
Wallace Group will schedule and attend a kick-off meeting for the project which will include task leads of the various disciplines and City staff. It is anticipated that this meeting will be hybrid to allow for in-person and virtual attendees, and a field walk will follow the meeting. This meeting will provide the opportunity for the participants to discuss the City's desires for the project. We anticipate kicking off the preliminary engineering task immediately following this meeting, and it will be critical to gain consensus on the traffic volume data set, design vehicles and standards to be used in developing update concept layouts for each intersection. We also anticipate outlining the public outreach, environmental compliance, and potential grant support strategies. Our team will prepare an agenda and meeting notes inclusive of action items for distribution to the team.

We anticipate virtual meetings with City staff to review and discuss comments on the concept refinement, 60% PS&E, and 90% PS&E submittals for the two project phases. the two alternatives to solidify our strategy moving forward. Wallace Group will prepare an agenda for each meeting and follow up with relevant notes and action item listings.

To maintain communication and progress, we have also included up to monthly check in meetings with City staff and the Wallace Group project management team through the design phases.

Other public meetings will be attended as part of Task 8.

WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING
CONSTRUCTION MANAGEMENT
LANDSCAPE ARCHITECTURE
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SURVEYING / GIS SOLUTIONS
WATER RESOURCES

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A California Corporation

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Task 1.3 QA/QC and Constructability Analysis

Quality Control and Quality Assurance (QA/QC) is an important part of our work products, and we have partnered with Kimley-Horn to provide the City peace of mind that the complex designs are vetted through a robust review process--from concept refinement through final PS&E. At each of the major draft design submittals, deliverables will undergo a QA/QC review by senior staff. We will pay particular attention to review of the PS&E deliverables, as well as the stormwater quality calculations and design. We also plan to utilize our senior construction management team to provide a constructability review of the PS&E packages, and this will include developing conceptual construction schedules for each project. This overall review task and process is a critical component of a successful project and will ensure that the project team delivers a fully developed and polished product to the City.

Task 1.4 Grant Support (Optional Task)

If budgeted and authorized, the Wallace Group team can provide grant-related assistance to help advance the project to meet grant requirements and/or enhance competitiveness. We will conduct desktop research to identify potential funding programs for the unfunded portions of the project and develop a preliminary grant matrix and memorandum with viable programs to secure funding. The matrix will address minimum and maximum funding requests, matching requirements, eligibility, scoring criteria, anticipated program timeline, and opportunities to enhance competitiveness. Following completion of the grant matrix and memorandum, our team will attend a 1-hour virtual meeting to present the results of the research to the City.

Upon selection of a specific grant program or programs to submit an application, our team will provide the following services, if authorized this task will be conducted up to the budgeted amount:

- Grant-specific Exhibits
- Opinion of Probable Construction Cost
- Environmental Documentation
- Disadvantaged Community Research
- Benefit / Cost Analysis
- Grant Narrative

Deliverables:

- Status reports and invoicing
- Critical Path Method (CPM) Schedule and up to 6 updates
- Meeting agendas and notes with action items
- Draft construction schedules

Task 2: Preliminary Engineering Studies

Task 2.1 Concept Refinement & Traffic Operations

2.1.1 Traffic Volume Forecasts

KHA will obtain the latest Salinas General Plan Transportation Demand Model (TDM), from the City. KHA will work with the City to obtain any model documentation or guidance that will assist in the running of the new model and reviewing model files. This scope of services is based on the primary assumption that KHA will be able to run the new model locally with minimal coordination or assistance from the City. Traffic Forecast Year is assumed to be 2046.

KHA will run the TDM for the base year and the forecast year to obtain volumes for the three study intersections. Volumes will be post-processed by taking the difference in volumes between the base year and forecast year at the study intersections (the growth) and adding it to the traffic counts collected as part of the previous task. The post-processed volumes will be reviewed for

reasonableness and provided to the City. The existing and future study intersection traffic volumes will be provided in Excel files.

2.1.2 Intersection Operations

Roundabout traffic operations at the study intersections will be evaluated to confirm lane channelization identified in the Boronda Road Congestion Relief Project Intersection Control Evaluation (ICE). This task will confirm the roundabout operations and test service life and design life sensitivity. The roundabout capacity and operations analysis will be conducted using Sidra Intersection 9 software using HCM 7 methodology and the Sidra Standard capacity models. Service life operations will be evaluated to determine if acceptable operations can be accommodated with a smaller roundabout improvement for a minimum of 10-years, post-construction. Service life operations will assume compound annual growth between the existing count data and forecast year.

We assume the Boronda Road Congestion Relief Project ICE will serve as the traffic study for project approval. A supplemental memorandum will be prepared to document the operations and confirm the improvements recommended in the Boronda Road Congestion Relief Project ICE.

The following items are included in this task:

- Perform peak hour intersection Level of Service (LOS) and queuing analysis for roundabout control during existing and future peak hour design year scenarios. Report the peak hour average control delay, LOS, volume to capacity ratio (v/c), and 95th percentile queue length for each approach by movement. Queue estimates will be examined relative to available storage lengths to nearby driveways and adjacent intersections.

- Conduct variable runs to test the sensitivity of the roundabouts to changes in geometric and traffic flow conditions.

2.1.3 Concept Layout Refinements

Kimley-Horn will develop refined concept level roundabout improvement exhibits for the intersections of Boronda Road/El Dorado Drive and Boronda Road/Natividad Road, and Wallace Group will review and comment on the layouts. This jointly reviewed and developed product will then be reviewed with City staff. The refined concepts will evaluate approach and departure alignment alternatives, including the channelization of approach, circulatory, and departure lanes, with respect to known project constraints, design vehicles, right-of-way, local access, and utilities.

The roundabout conceptual layouts will be prepared using project AutoCAD files. The layouts will include pavement and color-coded areas identifying landscape opportunities and potential sight line constraints based on estimated sight lines. Project constraints and right-of-way will be identified.

Key features evaluated during this phase include:

- Size and location of roundabout relative to right-of-way and geometric constraints

- Number of approach, departure, and circulatory lanes

- Channelization and striping strategies for circulating lanes and design vehicle accommodation

- Approach and departure alignment
- Design speed, design vehicle, and sight line considerations (Preliminary calculations will be conducted at this phase of concept refinement. Final design check calculations will be completed during 2.2 Geometric Approval Drawings)
- Local access impacts and circulation
- Travel paths for bicyclists and pedestrians
- Continuity for pedestrian travel and access to transit facilities
- Estimated functional area of intersection based on roundabout geometric features and roundabout design influence areas.

The team will prepare up to two (2) concepts at each intersection for the Ultimate and Interim conditions. This may include alternative means to achieve target safety performance measures, pedestrian and vehicle site circulation, right-of-way impacts, utility avoidance, storm water treatment, environmental avoidance/mitigation areas, etc. In some cases, and at the discretion of the engineer, there could be a hybrid of various features that help explore the range of options and tradeoffs for each concept. We assume constraints at the project locations will be identified and provided by the City prior to development of the refined project concepts. Our team will develop up to two (2) draft concept layouts which will be independently peer-reviewed before providing to the City for review. After review by the City, one round of reasonable adjustments to the layout is included.

The preferred concept layouts will serve as the basis for optimization of the roundabout and geometric approval as described under Task 2.2 Geometric Approval Drawings.

2.1.4 Design Basis Memorandum

This task includes the development of a Basis for Design Technical Memorandum which will summarize assumptions, design concepts, guideline criteria, and codes and regulations applied to the design. Subjects addressed will include assumptions considering safety and comfort of all roadway users, curb alignments, crosswalks, ADA requirements, retaining curbs/walls, traffic lane alignments, and bike lanes. We will identify any known design exceptions and anticipate updating this document again for the 60% PS&E submittals.

2.1.5 Pedestrian Crossing Assessment

Consistent with Public Right of Way Accessibility Guidelines (PROWAG) from the United States Access Board, Kimley-Horn will conduct an assessment of crossing performance checks for pedestrians with vision disabilities consistent with NCHRP Report 834: Crossing Solutions at Roundabouts and Channelized Turn Lanes for Pedestrians with Vision Disabilities.

Our team will conduct a pedestrian crossing assessment that includes the following three performance checks:

- Crossing sight distance (for pedestrians)
- Estimated level of pedestrian crossing delay
- Expected level of risk for blind pedestrians

The calculations and results of the pedestrian performance checks will be documented in a Roundabout Pedestrian Crossing Assessment Memorandum.

If the evaluation necessitates, or the recommendation is to install a pedestrian hybrid beacon system on the road legs where pedestrians may cross two or more lanes of traffic without refuge, a quantitative evaluation of the operations of a pedestrian hybrid beacon will be conducted using Sidra 9 software. The evaluation will estimate the number of queued vehicles when the beacon is activated during the peak hour. The result of the evaluation will inform the placement of the beacons and the distance between the crosswalks and the circulatory roadway of the roundabout. If the pedestrian hybrid beacon is desired, it is assumed the design will be completed under a separate scope and fee.

2.1.6 Data Collection

This Scope of Services will advance findings from the previous Boronda Road Congestion Relief Project ICE prepared for the Project. We anticipate that the City will provide the following information:

- Recent/relevant Project area traffic data (i.e., volumes, classifications, speeds, collisions, etc.)

- Forecast traffic data (traffic volumes, truck volumes, etc.) for Cumulative Conditions (PDF of Volume Summary Sheets)

Our team will complete a site visit of the Project vicinity to observe existing operations and lane configurations, vehicle storage lengths, existing traffic control, speed limits, lane utilization, adjacent land uses, and other readily apparent features for the study facilities. Our team will coordinate with the City and Salinas Airport to obtain drone videos of the study intersections for analysis of existing vehicle movements.

This Scope of Services includes collection of up to two (2) total weekday, AM and PM peak-period intersection turning movement counts (2 hours each peak, 8 hours total per intersection).

2.1.7 Traffic Simulation

KHA will prepare VISSIM simulations, using the facility traffic data collected under Subtask 2.1.6: Data Collection, for one roadway network including the following facilities:

- East Boronda Road, between approximately 200' west of McKinnon Street and approximately 700 feet east of Natividad Road intersection (Full Corridor)

- El Dorado Drive and Boronda Road (Intersection 1)

- Natividad Road and Boronda Road (Intersection 2)

The following scenarios will be evaluated:

- Full corridor with existing year volumes during peak-hours (AM & PM) and RRFB pedestrian control (Scenario 1)

- Full corridor with existing year volumes during peak-hours (AM & PM) and PHB or HAWK pedestrian control (Scenario 2)

- Full corridor with future year volumes during peak-hours (AM & PM) and RRFB pedestrian control (Scenario 3)

- Full corridor with future year volumes during peak-hours (AM & PM) and PHB or HAWK pedestrian control (Scenario 4)

Intersection 1 and Intersection 2 will be evaluated under roundabout control consistent with geometries established under 2.1.3: Concept Layout Refinements.

The simulation will qualitatively evaluate:

- Vehicle queuing at the study intersections
- Interactions between pedestrians and vehicles
- Interactions between cyclists and vehicles

Task 2.2 Geometric Approval Drawings

After approval of the ultimate condition roundabout layout, design check calculations will be prepared and documented for the design year roundabouts. This approach of first designing the ultimate and from that basis designing the two-lane roundabout is intended to establish the ultimate footprint (for preservation of Right of Way) while then designing the near-term roundabout to more readily be expanded in the future to the ultimate condition.

Design checks specific to vehicles navigating roundabout intersections will be calculated and documented in a Roundabout Performance Check Summary Memorandum. Roundabout curb geometry and lane markings will be adjusted to achieve target design values for estimated speeds, design vehicles, and sight lines. If site conditions or other constraints require a deviation from roundabout guidance described in the HDM, the deviation will be identified in the Roundabout Performance Check Summary Memorandum along with a description why the deviation is being requested. The following design checks will be evaluated for vehicles:

- Fastest path estimation for R1 through R5
- Swept path and tire tracking for design vehicles (Assume up to two design vehicles)
- Intersection angle of visibility
- Intersection Sight Distance (Assume tc=5.0 seconds)
- Stopping Sight Distance
- Path overlaps estimation for multi-lane entries and departures

We anticipate submitting the GAD and Roundabout Design Check Memoranda for City approval prior to moving into the final design phase for each project phase. Iterations of these documents are not anticipated to be required.

Task 2.3 Preliminary Hydraulic Reports

Wallace Group will prepare a preliminary Drainage Report and water quality report for the Phase 2 widening of East Boronda Road. These reports will build upon the analyses conducted under Phase 1 in the *Preliminary Stormwater Control Plan* and *Offsite Drainage Report* which addressed Phase 2 areas. We assume the preliminary water quality report is equivalent to a preliminary Stormwater Control Plan.

Both the preliminary SWCP and drainage report for the Phase 2 project will address the Phase 2A and 2B projects in separate sections of the same report; a final SWCP and drainage report for each individual project will be prepared separately during the subsequent PS&E phase.

The preliminary SWCP will follow the SWCP outline per the City's SWDS Appendix B and address post-construction stormwater management for the project, stormwater quality

requirements and SCM design concepts, and soil conditions including soil infiltration. Infiltration testing was previously conducted by Earth Systems Pacific at several locations along the Boronda Road improvements corridor in 2016. In total 4 locations were evaluated within the Phase 2A project area and 2 locations were evaluated within the Phase 2B project area (two depths each). We assume six additional locations will be evaluated in the project 2A area and eight additional locations will be evaluated in the Project 2B area. Results will be summarized in the Phase 2A preliminary SWCP. The Preliminary SWCP will not include an Operations and Maintenance Manual (O&M Manual); the O&M Manual will be developed during the 60% PS&E phase.

The drainage report will be focused on onsite (roadway corridor) drainage improvements and hydraulic analysis as well as any offsite drainage improvements required for relocation of existing agricultural ditches. The report will also consider integration with future Phase 3 improvements, as necessary. The Drainage Report will provide recommended size and alignment of the new storm drain system and infiltration/treatment facilities. Drainage calculations will be prepared in accordance with Part II, Section II of the City of Salinas Standard Specifications, Design Standards and Standard Plans. We assume that downstream water surface elevations in the storm drain system will be available from the Storm Water Master Plan. Design criteria will include:

- Design Storm – 20 Year
- Inlet Spacing – As required to meet the maximum allowable depth of water in street shoulders criteria.
- Maximum Depth of Water in Streets – Not to exceed the height of the curb for the 20-year design storm.

Information from these preliminary reports will be used to develop the Basis for Design Technical Memo.

Task 2.4 Geotechnical Recommendations

Earth Systems Pacific (Earth Systems) is on the Wallace Group team to provide geotechnical recommendations and support through design, bidding, and construction of both phases of the project. The purpose of Earth Systems' geotechnical engineering investigation would be to identify and evaluate the subsurface soil and groundwater conditions at the proposed boring locations to compare to prior findings, and to use that information to generate updated design-level soil engineering recommendations for the proposed road widening. Earth Systems proposes to evaluate subsurface soil conditions at the site by drilling exploratory borings using a track-mounted drill rig. In areas where drilling locations will have an impact on traffic flow, a contractor specializing in traffic control will be hired to direct traffic during drilling.

Earth Systems will complete exploration and identification of subsurface conditions through the drilling of five to eight (5 to 8) borings to a depth of approximately 5 feet. We anticipate that these borings will be mostly focused along Natividad Road and El Dorado Drive to supplement the previously obtained data along Boronda Road. The boring logs will include a description of soil encountered including color, major and minor components, Unified Soil Classification System (USCS) type(s), changes in soil conditions with depth, qualitative moisture content, density/consistency and plasticity, sampler type, sampling depths and laboratory test results. Copies of the boring logs will be included in the updated report. The borings would be backfilled with soil cuttings generated during the drilling process and patched using cold-mix asphalt patch (where needed). Earth Systems will observe the utility potholing process to verify the pavement sections and underlying soil conditions.

We anticipate drilling of a total of fourteen (14) new infiltration test holes: 6 at El Dorado Drive and 8 at Natividad Road at depths and locations to be determined by the design team. Depths ranging from 2 feet to 8 feet are anticipated. The infiltration tests will be performed in general accordance with the Shallow Quick Infiltration Testing Methodology, Native Soil Assessment for Small Infiltration Based Stormwater Control Measures, Central Coast Low Impact Initiative

(2013). The test results will be included in the updated report and will include a brief description of the test methods, a map showing the approximate test locations, and tables of the infiltration test results.

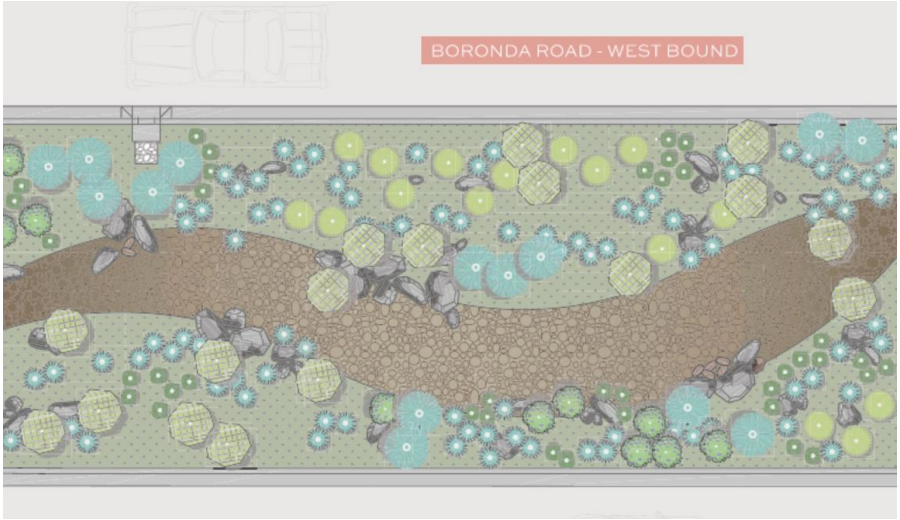
Earth Systems will prepare an updated written report including engineering analysis of the data generated from the subsurface exploration, conclusions and updated geotechnical engineering recommendations and design criteria for the proposed project. The following items would be addressed in the report:

- Soil and groundwater conditions encountered at the site,
- Expansion potential of near surface soil at the site,
- Preparation of the site prior to grading,
- Grading criteria and suitability of onsite soils as engineered fill,
- Exterior concrete flatwork,
- Utility trench backfills,
- Measured thickness of various components of existing pavement,
- Surface drainage and finish improvements,
- Results of geotechnical laboratory tests performed on soil samples,
- Geotechnical observation and testing.

Task 2.5 Landscape Concept

A draft landscape concept plan will be generated for the project comprised of planting and irrigation proposed for the project. We assume that the design of the corridor is to match the Phase 1 design, as worked out collaboratively with the City during that phase. The concept will account for minimizing landscape maintenance while maximizing worker safety and using low-water plant material. Wallace Group will work with the City of Salinas on the proposed irrigation water meter connections and develop preliminary water use calculations to help determine approximate sizes and locations of the proposed meters.

We anticipate creating detailed plan exhibits to communicate the design intent to the City, including one (1) plan for each roundabout for Phases 2a and 2b at 1"=20' scale for a total of two (2) and up to four (4) plans to show the corridor (two (2) in the Phase 2a area and two (2) in the Phase 2b area) showing typical planting areas based on representative geometric configurations for a total of six (6) sheets. These plans will use a color graphic similar to the plan graphic for Phase 1 below.



To show the overall planting areas, the team will provide a landscape hatched exhibit showing the overall corridor's landscape areas for Phases 2a and 2b which will include the proposed water meter connections. This is anticipated to be done at 1"=100' scale for a total of two (2) sheets (one for each phase). The team will provide a photo exhibit board of the proposed planting plan, including desired rock mulching, boulders, and other inert materials to complement the plans and better understand the design intent. We anticipate up to two (2) photo image boards.

Task 2.6 Preliminary Photometric Analysis

Kimley-Horn will coordinate with the City to collect existing available data which will serve as the basis for design. A lighting analysis for existing conditions will be performed in AGI32 lighting software and will include roadway lighting and safety lighting (lights at signalized intersections). The proposed analysis will include proposed lights for roadway lighting to meet recommended values in RP-8 or as preferred by the City and proposed lighting at the proposed roundabouts.

Exhibits will be created to show the existing and proposed lighting along the corridor and project intersections. A table will be included to summarize the existing and proposed average illuminance and uniformity values along each of the corridors and intersections.

Task 2.7 Utility A Letters

The Wallace Group team will utilize a utility database that is kept by 811 Dig Alert to determine the utilities within the project limits. Based on our research and familiarity with the project area, we know that the City owns and maintains sanitary sewer and storm drain facilities, and we anticipate coordinating with the following utility purveyors:

- AT&T
- California Water Service
- Comcast
- PG&E

Our team will request utility atlas maps, existing facilities documentation, any proposed improvements planned, and information and verification of prior rights. We anticipate one request per company that will be inclusive of the total Phase 2 area. The utility atlas plans and our topographic mapping will serve as a base map for the utility plan sheets. We will use an electronic tracking system that can be shared with the City indicating when the Utility 'A' letters were sent, who they were sent to, date of follow up, date of response, if they have facilities at the site, and any remarks.

We will compile a matrix of existing utilities that will include:

- Utility Owner and contact information
- Utility type, size, material, estimated age (based on utility provider record information)
- Correspondence dates and details
- Apparent conflicts with the proposed construction and potential relocation options.

Task 2.8 Environmental Commitment Record

EMC Planning Group (EMC) is on the Wallace Group team to provide environmental permitting support. CEQA documentation and resource agency permits are anticipated for construction of Phase 2, and conditions applicable to the proposed project are included in the following documents:

- Mitigation Monitoring and Reporting Plan (EMC Planning Group 2020);
- Reinitiation of the Biological Opinion on the Boronda Road Congestion Relief Project, Monterey County, California (Corps File No. SPL-2017-00402) (USFWS 2023);

- California Endangered Species Act Consistency Determination No. 2080-2023-015-04, Boronda Road Congestion Relief Project (CDFW 2023); and
- Nationwide Permit Verification, Subject: File Number SPN-2017-00402 (USACE 2023).
- Water Quality Certification No. 32720WQ18 for Boronda Road Congestion Relief Project – Phase 1 and 2, Monterey County (RWQCB 2021)

EMC Planning Group and Wallace Group will assemble and review environmental documentation and permits applicable to the project, including Phase 1 construction compliance records, change orders, and quarterly and annual reports.

Construction will require implementation of preconstruction, construction, and post-construction conditions listed in the resource agency permits listed above. To avoid change orders, EMC will provide a matrix of permit conditions and coordinate with the design team to include permit requirements in the bid package for the additional labor and materials needed to implement permit conditions. Particular emphasis will be placed on understanding work windows outside of the rainy season and installation and monitoring of exclusion fencing to meet federal and state endangered species protection requirements.

Deliverables:

- Existing and Forecast Volume Memorandum (Combined Phase 2)
- Draft and final Traffic Operations Memorandum (Phase 2a, Phase 2b)
- Draft and final concept layout exhibit (Phase 2a, Phase 2b)
- Basis for Technical Design Memorandum (Combined Phase 2)
- Roundabout Pedestrian Crossing Assessment Memorandum (Combined Phase 2)
- Weekday AM and Weekday PM peak-hour VISSIM simulation video (four [4] total videos, Scenarios 1-4)
- Select 3-D VISSIM simulation video showing pedestrian-vehicle and cyclist-vehicle interactions at Intersection 1 & 2 (four [4] total videos, showing Intersections 1 & 2, Scenarios 1-4)
- Geometric Approval Drawings (Phase 2a, Phase 2b)
- Design Check Memorandum (Phase 2a, Phase 2b)
- Preliminary Drainage Report (Combined Phase 2)
- Preliminary SWCP (Combined Phase 2)
- Geotechnical Report (Combined Phase 2)
- Landscape Concept Planting and Irrigation Plans (Phase 2a, Phase 2b)
- Plant Image Board (Phase 2a, Phase 2b)
- Draft and Final Photometrics Exhibit (Phase 2a, Phase 2b)
- Draft "A" Letters (Combined Phase 2)
- Utility tracking matrix (Excel, ongoing)
- Environmental permit matrix

Task 3: Surveys and Mapping

<u>Task 3.1 Survey Densification</u>

As noted in the Understanding and Approach, Wallace Group's survey team is very familiar with this project site. Much of the Phase 2 project area was mapped during Phase 1. As part of the Phase 2 survey scope of work, we anticipate reviewing the existing mapping applicable to Phase 2 and noting observed differences between what is shown in the mapping and the existing conditions. To the extent budget allows, the areas that have changed since the Phase 1 mapping was completed will be updated. This task also includes performing field surveys to locate significant features and conform level mapping. For budgeting purposes, this task includes:

1. Phase 1 Conform Location: Field surveying of approximately 750 feet of East Boronda Road to update mapping so improvements from the Phase 1 construction are shown.

2. El Dorado Drive, south of East Boronda Road, Conform: Approximately 320 feet of El Dorado Drive south of East Boronda Road and north of Cromwell Drive.

3. Natividad Road, south of East Boronda Road, Conform: Approximately 320 feet of Natividad Road, south of East Boronda Road, north of Arcadia Way.

4. Natividad Road, north of East Boronda Road, Conform: Approximately 450 feet of Natividad Road, approximately 700 to 1,150 feet north of East Boronda Road.

5. East Boronda Road at east end of Phase 2: Approximately 500 feet of East Boronda Road, 1,100 to 1,600 feet east of Natividad Road

See Figure 3.1 for illustration of approximate limits of mapping area to be reviewed and updated to existing conditions, shown highlighted in blue, conform mapping limits, shown highlighted in red.

FIGURE 3.1

Task 3.2 Right of Way Engineering

We will review the County of Monterey's GIS survey records website for record maps that have been filed since the Phase 1 survey was completed. If these maps show changes or differences in the right of way as re-established as part of the Phase 1 work, we will provide further review and to the extent budget allows update the right of way, boundary and easement locations as appropriate. Any further needs will be brought to the attention of the City for additional authorization.

We will also review updates of the title reports that were used as part of Phase 1 and plot changes to right of way, boundary and easement lines that may be indicated within the updated title reports.

For budgeting purposes, this includes the following:

1. Reviewing up to four (4) newer record maps, and updating the existing mapping for up to one (1) item per map.
2. Ordering up to 10 title reports at a cost of $1,000 each and plotting up to five (5) new easements that are near and related to the Phase 2 project area.

Task 3.3 Record of Survey

The improvements related to Phase 2 of the project will very likely disturb and destroy existing survey monuments shown on publicly available survey maps, such as Records of Surveys. As such, the preservation and perpetuation of record survey monuments will be required to comply with State of California Business and Profession Code, Chapter 15, Section 8771.

Prior to the delivery of the bid package construction documents, we will have completed a pre-construction monument preservation and perpetuation survey. The timing of the pre-construction survey should be such that it is completed and recorded near to and prior to the start of construction.

This task includes reviewing the online County of Monterey GIS survey records website for record maps and documents and reviewing these for existing survey monuments that may be in jeopardy due to construction activities of Phase 2. We will investigate these locations and measure existing monuments found at them. We will set reference tie monuments sufficient to allow for a facile re-establishment of at jeopardy monument locations by another survey during the construction project, as required by state law.

The Record of Survey will show the limits of our monument investigation and for each record monument within the construction limits we will indicate whether the monument existed or not, the character and location of found and reference monuments.

For budgeting purposes, we have assumed:

1. This includes preserving and perpetuating the location of approximately 20 record monuments

2. Record monuments will be found in good condition, as shown on record maps, and will not require excavation through asphalt to access and measure.

3. We will submit one draft record of survey for review by the County Surveyor and one signed original record of survey.

4. One day of traffic control and safety will be sufficient to locate record monuments within the traveled way of the project roads.

Deliverables:

- Survey Base Map (PDF and DWG)
- Filed Record of Survey for Monument Preservation (Mylar and PDF copy)

Task 4: Utility Coordination

Task 4.1 Potholing

As this project includes numerous stormwater planters, new storm drain and sanitary sewer facilities, streetlight foundations, and other work affecting the roadway subgrade, a focus on underground utilities is needed. We will delineate approximate existing utility lines based on atlas maps provided by the utility companies in Task 2; however, we will not know the depth of the facilities. It is beneficial to determine the vertical locations of these before construction to avoid surprises, potential delays, and increased construction costs. For budgeting purposes, we have included scope for up to 100 potholes to capture the main potential conflicts and these would be split between the two Phases of the project (assuming 40 for Phase 2a and 60 for Phase 2b). We anticipate identifying pothole locations based on the 60% design drawings and collecting and analyzing the data for the 90% design level.

T2 Utility Engineers (T2) is on the Wallace Group team to provide utility potholing services. The design team will identify proposed pothole locations based on atlas maps and the proposed underground design. T2 will utilize geophysical equipment and techniques to positively identify utility locations to be potholed prior to any excavation work. A field sketch of the utility premarking results, including comments and notes, will be provided. The design team will review the field sketch and approximate depth given by T2 to confirm pothole locations. This initial exploration may reduce the number of physical pothole locations needed to be excavated.

T2 will establish the vertical location, material, and size of selected utilities using air-vacuum excavation. T2 will apply for a No Fee encroachment permit with the City of Salinas. We anticipate that potholing work can be completed during normal weekday business hours; however, we understand that night work may be required for some pothole locations, particularly at the busy Natividad intersection. Traffic control will be provided by T2 compliant with the CA MUTCD, and traffic control plans are not anticipated. Following excavation, the potholes will be backfilled with native material, compacted with a pneumatic tamper, and surface restored with cold patch asphalt, concrete, or native materials as required. T2 will prepare and submit data reports including photo logs and distances to three reference points.

To provide efficiency in the project schedule and budget and to enhance the available existing data, we anticipate strategically scheduling our survey team and geotechnical team to complete their field work concurrently with the utility potholing effort. Wallace Group's survey team will complete the field densification surveys and conform mapping and will collect the USA markings and patched back pothole locations to verify the locations. Earth Systems will examine the existing pavement structural sections and the subgrade material. We anticipate two separate mobilizations for this task--one for each project phase. Our design team will use the survey data and the triangulation data to locate the potholed locations in our base mapping, add the data to plans and utility profiles, and reconciling the design.

<u>Task 4.2 Utility Notice to Owners ("B" Letters)</u>
During the 90% design process for each Phase of the project, Wallace Group will use the pothole data and proposed design to identify potential utility conflicts and will prepare draft “B” Letters (also known as “Notice to Owners”) for the City's review. These letters serve to inform affected utility owners of known/identified conflict locations of their utility facilities with the proposed project. We will develop utility conflict resolution exhibits to attach to each letter which will include detailed call outs for existing facilities and conflict locations.

This task includes utility coordination meetings. For budgeting purposes, we have assumed that Wallace Group will coordinate and attend up to two meetings with up to five companies for each phase of the project (20 meetings in total). The first meeting is anticipated to be virtual and would serve to introduce the project to the utility companies, discuss potential conflicts, and discuss the WASP and CASP developments to confirm if the existing utilities do or do not meet the future growth needs and determine if upgrades require accommodation. The second meeting is anticipated to be in person and would focus on the known conflict locations following the potholing task. Our team will discuss potential relocation strategies; however, the design of their facilities is not included in our scope of work. Wallace Group will develop meeting agenda, notes, and action items.

PG&E Coordination for Service: The Wallace Group team will prepare and submit the PG&E applications for service for street lighting, crosswalk treatments, and irrigation controller. Our team will coordinate with PG&E to identify appropriate service points. Wallace Group will prepare a draft application for City review and approval. Our team will then submit the application via PG&E’s online platform. The City will receive an invoice from PG&E for the Engineering Advance (i.e. deposit), which will need to be paid within 30 days. We will coordinate

with PG&E through the start of construction to facilitate connection to existing or proposed service points.

Task 4.3 Utility Agreements ("C" Letters)
For each Phase of the project prior to Final PS&E and assumed after parties have agreed on a relocation plan, we will work with the City to help send the utility companies a "C" letter, which is a Utility Agreement. The Utility Agreement will spell out each party's responsibilities for utility relocation, such as timing of relocation and payment for the relocation. Wallace Group will provide the City with draft final "C" letters and assist the City with this coordination; however it is anticipated that affected utility facility owners will provide utility agreements to the City for their review and action directly and we will assist in the review of those documents with the City.

Deliverables:

- Pothole Location Exhibits (PDF)
- Up to 100 Pothole Data Sheets (PDF)
- Locations of utilities (CAD)
- Draft "B" letters with conflict resolution exhibits (PDF)
- Meeting agenda, notes, action items (PDF)
- Draft "C" letters (PDF)
- Utility tracking matrix (Excel, ongoing)

Task 5: Right of Way Determination

Wallace Group will work with the City to determine project needs and how those needs will interface with development needs. It is assumed that the City will lead this portion and Wallace Group will support, and the legal description work will only begin once the development coordination is finalized.

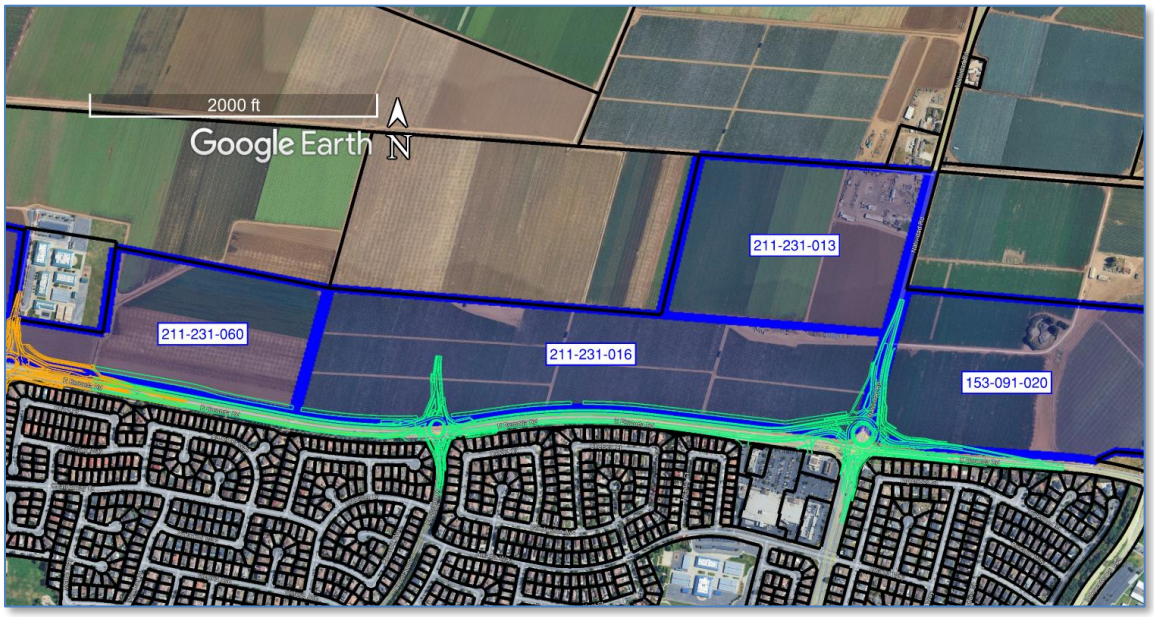
Wallace Group will review right-of-way records, coordinate with the West Area Specific Plan (WASP) developments, and provide legal descriptions and exhibit maps (stamped and signed) including closure calculations for the right of way acquisitions on the north side of Boronda Road impacted by the Phase 2 project. The acquisition exhibits will be like what was generated for Phase 1 and what is required by Caltrans for Appraisal Maps (see Section 4-5 of their Plans and Preparation Manual). For each acquisition we will craft a legal description and exhibit map.

For budgeting purposes, we have assumed the following:

1. We will provide Appraisal Exhibits and Legal Descriptions with Exhibit Maps for up to four (4) properties and up to eight (8) acquisitions.
2. One (1) Appraisal Exhibits will be prepared for affected properties, up to four (4).
3. Individual legal descriptions and exhibit maps will be prepared for each acquisition, up to eight (8).
4. We will submit one (1) draft PDF package of Appraisal Exhibit delivery and respond to one (1) set of unified comments.
5. We will submit one (1) signed original PDF package of Appraisal Exhibit delivery.
6. We will submit one (1) draft map check delivery PDF package for legal descriptions and exhibit maps and respond to one set of unified comments.
7. We will submit one (1) electronically signed original legal description and exhibit map PDF package delivery.
8. Appraisal and acquisition services are not required.

See Figure 5 for the anticipated properties that will be impacted by the Phase 2 design and require acquisition support. These properties are highlighted and noted in blue.

FIGURE 5



Deliverables:

- Draft PDF's of appraisal exhibits
- Signed original PDF's of appraisal exhibits
- Draft map check submittal of PDF legal descriptions and exhibit maps
- Signed original PDF's of legal descriptions and exhibit maps
- Map checks and final submittals

Task 6: Phase 2a Package

Phase 2 of the Boronda Road Congestion Relief Project will be split into two separate projects to aid in project approval and funding. Task 6 is for final design through construction support of Phase 2a which conforms at the McKinnon Street roundabout where the full width cross section terminates and will include widening the roadway and median from there to the Boronda Road/El Dorado Drive intersection. This Phase will also include tapering back to existing on the south leg of El Dorado Drive and the east leg of Boronda Road. The north leg of El Dorado Drive will be designed to a logical terminus to conform with future growth as part of the WASP development.

Wallace Group staff will lead the design effort for Phase 2a with Kimley-Horn supporting design of the signing and striping, lighting and pedestrian crossing beacons. The direction for the design will be based on coordination with the City to date and it is not expected that the future design will vary from the approved GAD. Prior to the two draft submittals, the PS&E packages will be reviewed by independent reviewers for technical completeness and consistency as well as multilane roundabout detail updates.

Task 6.1 60% PS&E (Phase 2a)

6.1.1 60% Plans

The Wallace Group team will develop the GAD designs prepared and approved in Task 2 to a 60% level of detail. Plan sheets will be prepared using Wallace Group's standard title block on 22"x34" sheets at 1" = 20' scale with close up details as needed. The plans will assist in further identifying specific project needs and recommend solutions to meet those needs.

Storm drain plan, profile, and detail drawings will be prepared for a proposed roadway storm drain network along Boronda Road and El Dorado Road with proposed connections to the Phase 1 storm drain system terminating east of McKinnon Street. Stormwater control measures provided in the median, sidewalk planters, and splitter islands will have overflow outlets connecting to the proposed storm drain main. Relocated agricultural ditches may conform to the ditch on the north side of Boronda constructed under Phase 1. Details will be provided for the stormwater facilities using City standards where applicable.

Sanitary sewer plan and profile drawing will be provided for a trunk line in Boronda Road to be extended from the Phase 1 limit to the eastern Phase 2a limit. Stub-outs for future connections to the north will be provided where required.

Wallace Group's Landscape Architecture Department will prepare landscape planting, irrigation, and Maximum Applied Water Allowance (MAWA) calculation plans. Planting plans will provide plant schedule, planting types, sizes, quantities, and locations. Irrigation plans will provide irrigation equipment types, layout, and water demand calculations (MAWA) as required for landscape water efficiency ordinances and City review.

The following sheets are anticipated:

- Title Sheet.....(1 sheet, No Scale)
- General Notes.....(2 sheets, No Scale)
- Key Map.....(1 sheet, 1"=100' Scale)
- Project Control Plan.....(1 sheet, 1"=100' Scale)
- Typical Cross Sections.....(9 sheets, No Scale)
- Demolition Plans.....(2 sheets, 1"=50' Scale)
- Layouts.....(9 sheets, 1"=20' Scale)
- Profiles.....(10 sheets, 1"=20' Scale)
- Construction Details.....(12 sheets, scale varies)
- Contour Grading Plan.....(9 sheets, 1"=20' Scale)
- Drainage Plan.....(9 sheets, 1"=20' Scale)
- Drainage Profiles.....(11 sheets, 1"=20' Scale)
- Drainage Details.....(6 sheets, scale varies)
- Utility Plan.....(9 sheets, 1"=20' Scale)
- Sanitary Sewer Plan.....(9 sheets, 1"=20' Scale)
- Sanitary Sewer Profiles.....(5 sheets, 1"=20' Scale)
- Construction Area Signs.....(1 sheet, No Scale)
- Motorist Information Plan.....(1 sheet, No Scale)
- Stage Construction Plans.....(12 sheets, 1"=50' Scale)
- Pavement Delineation Plans.....(9 sheets, 1"=20' Scale)
- Signing Plans.....(9 sheets, 1"=20' Scale)
- Signing Details and Quantities.....(4 sheets, scale varies)
- Planting Plans.....(9 sheets, 1"=20' Scale)
- Planting Notes and Details.....(1 sheet, scale varies)

- Irrigation Plans..... (9 sheets, 1"=20' Scale)
- Irrigation Calculations, Notes, and Details..... (4 sheets, scale varies)
- Erosion and Sediment Control Plan.....(9 sheets, 1"=20' Scale)
- Flashing Beacon System Plans..... (2 sheets, scale varies)
- Lighting Plans, Notes, and Details..... (10 sheets, scale varies)

  Total Estimated Plan Sheets..... 184

This task also includes finalizing the Basis for Design Technical Memorandum to capture any updates and potential design exceptions.

6.1.2 60% Technical Specifications
Construction specifications will be produced based on applicable City and Caltrans standards as appropriate. With our current schedule we anticipate the technical specifications will be formatted per Caltrans 2026 Construction Contract Specification format. We anticipate the City will prepare front end and bidding sections of this document, and our team will provide the technical section with stamps for each discipline. At 60%, the technical specifications will be outline format only, and detailed provisions will be added at the 90% submittal.

6.1.3 60% Engineer's Opinion of Probable Construction Costs (Estimate)
Preliminary quantity takeoffs will be generated based on the draft 60% design. Relevant unit bid information will be acquired from the City and the State's "As-Bid" databases and adjusted to represent anticipated project costs. Based on this information, a Draft Engineer's Opinion of Probable Construction Costs (EOPCC) will be generated and submitted to the City for review. We anticipate using a 15% contingency at this stage.

6.1.4 Draft SWCP
A stormwater control plan will be prepared in accordance with the City's SWDS and Central Coast PCRs. Based on the concept plan, it is anticipated that the project will be subject to site design, water quality treatment, retention, and peak flow management performance requirements (PR-1 through PR-4) since it is located in Watershed Management Zone (WMZ) 1 and will create and/or replace more than 22,500 square feet of net impervious area. Wallace Group will develop a Storm Water Control Plan (SWCP) and Stormwater Control Operations and Maintenance Plan (O&M Plan) for the Phase 2a project.

Wallace Group will analyze the existing conditions of the site for comparison to post-development conditions. Onsite drainage management areas (DMAs) will be delineated based on topographical survey data and hydrological analysis will be run to compare the pre- and post-development scenarios. Both a review of the mapping and site visit will be performed to verify drainage patterns.

Portions of this project are likely to meet the criteria for redevelopment as defined in the PCR's to take advantage of a reduction in the required retention volume. Wallace Group will collaborate with the City to select the appropriate stormwater control measures (SCMs) to comply with the site design, water quality, and retention requirements. Such facilities may include bioretention basins, biofiltration facilities, vegetated swales, and/or underground retention. At the 60% stage, the draft O&M Plan will consist mainly of an outline of required sections with project information provided as available at the 60% design level.

6.1.5 Draft Drainage Report
A hydrological and hydraulic analysis for proposed Phase 2a improvements will be performed to ensure the City's hydraulic design criteria (found in the City's Standard Specifications, Design Standards, and Standard Plans) for drainage features are met. Analysis will include hydrological analysis for calculating runoff and hydraulic analysis of storm facility capacity including proposed

pipes, culverts, inlets, and gutters. In addition, hydraulic analysis of proposed stormwater control measures will be addressed. We anticipate calculating runoff generated under the 95th percentile storm event, as well as the 2-year, 10-year, and 100-year, and 24-hour storm events. In accordance with City standards, hydraulic capacity for drainage facilities will be based on the 20-year, 6-hour storm event.

Results from these analyses will be summarized in a Draft Drainage Report and incorporated into the drainage system design shown on the construction documents.

6.1.6 Environmental Permit Coordination
This task includes consultation with EMC to incorporate analysis and conditions contained in the permits into the 60% project design of Phase 2a. Four (4) meetings between EMC biologists and the project design team are included in this task.

Deliverables:

- 60% Plans (PDF)
- Final Basis for Design Technical Memorandum (PDF)
- 60% Technical Specifications (Word and PDF)
- 60% Cost Estimate (PDF)
- Draft 60% Phase 2a SWCP (PDF)
- Draft 60% Phase 2a O&M Plan (PDF)
- Draft 60% Phase 2a Drainage Report (PDF)

<u>Task 6.2 90% PS&E (Phase 2a)</u>
6.2.1 90% Plans
At the beginning of this task, we anticipate receiving written comments on the 60% PS&E task deliverables. The Wallace Group team will coordinate, attend, and provide notes on the 60% submittal review meeting using video conferencing software with City staff. The final design will proceed based upon the comments and mutually agreed upon resolution. It is anticipated that comments will be relatively minor, and adjustments to the approved configuration will not be required at this stage of design. We will formalize our understanding of the City's feedback and verify comments have been addressed using our Comment Resolution forms as we proceed with preparations of the final construction documents. The project design and plans will be further developed with relevant details, notes, and pay item callouts.

6.2.2 90% Technical Specifications
The technical specifications outline will be filled in with detailed provisions tailored to the project components. We will include Caltrans standard special provisions (SSPs) and write our own when needed following Caltrans standards. We will note areas that require City input and coordination.

6.2.3 90% Cost Estimate
The cost estimate will be updated based on any changes to the project design and submitted to the City for review. We anticipate using a 10% contingency at this stage.

~~*6.2.4 Draft Final SWCP*~~
~~The stormwater management design will be further developed for the 90% submittal with details, plans, and calculations for the proposed structural control measures. City comments on the 60% stormwater control plan and design will be evaluated and incorporated into the plans where necessary. Calculations and documentation of compliance with the PCR's will be provided.~~

~~Wallace Group will update the draft O&M Plan to describe the selected stormwater facilities in more detail than provided in the 60% draft O&M Plan. The plan will provide instructions on how the facilities function~~

~~and how they should be maintained to promote long-term performance. This task includes incorporating City comments on the 60% draft O&M Plan.~~

~~*6.2.5 Draft Final Drainage Report*~~
~~The Drainage Report will be finalized for the 90% submittal with analysis updated for revisions based on review of the 60% design.~~

6.2.6 Environmental Permit Coordination
This task includes consultation with EMC to incorporate analysis and conditions contained in the permits into the 90% project design of Phase 2a. Two (2) meetings between EMC biologists and the project design team are included in this task.

Deliverables:

- 90% Plans (PDF)
- 90% Technical Specifications (Word and PDF)
- 90% Cost Estimate (PDF)
- ~~Draft 90% Phase 2a Storm Water Control Plan (PDF)~~
- ~~Draft 90% Phase 2a O&M Plan (PDF)~~
- ~~Draft 90% Phase 2a Drainage Report (PDF)~~

Task 6.3 Final PS&E (Phase 2a)
At the beginning of this task, we anticipate receiving written comments on the 90% PS&E task deliverables. The Wallace Group team will coordinate, attend, and provide notes on the 90% submittal review meeting using video conferencing software with City staff. The final design will proceed based upon the comments and mutually agreed upon resolution. It is anticipated that comments will be relatively minor, and adjustments to the approved configuration will not be required at this stage of design. We will formalize our understanding of the City's feedback and verify comments have been addressed using our Comment Resolution forms as we proceed with preparations of the final construction documents.

6.3.1 Final Plans
The project design and plans will be finalized and further developed with relevant details, notes, and pay item callouts. Upon completion, the plan sheets will be delivered to the City for review and approval.

6.3.2 Final Technical Specifications
Technical specifications will be finalized based on minor revisions to the plans or bid items.

6.3.3 Final Cost Estimate
The cost estimate will be finalized based on minor revisions to the project plans or bid items. We anticipate using a 5% contingency at this stage.

Following these revisions, the bid documents will be stamped, sealed, and presented to the City for advertisement for construction.

6.3.4 Final SWCP
Wallace Group will update and submit the Final SWCP and O&M Plan after incorporation of revisions based on reconciled comments from the City on the 60% submittal.

6.3.5 Final Drainage Report
Wallace Group will update and submit the Final Drainage Report after incorporation of revisions based on reconciled comments from the City on the 60% submittal.

6.3.6 Environmental Permit Coordination
This task includes consultation with EMC to incorporate analysis and conditions contained in the permits into the final project design of Phase 2a. One (1) meeting between EMC biologists and the project design team is included in this task.

Deliverables:

- Final Plans (PDF, DWG)
- Final Technical Specifications (Word and PDF)
- Final Cost Estimate (PDF)
- Final Phase 2a Storm Water Control Plan (PDF)
- Final Phase 2a O&M Plan (PDF)
- Final Phase 2a Drainage Report (PDF)

Task 6.4 Bidding Support (Phase 2a)
During the advertising phase of the project, Wallace Group design staff will be available to answer bidding related questions, provide revised plan sheets and quantities and provide information to the City for their preparation of addenda. We will also be available to review the City's bid tabulation to provide our input on the responsiveness of bidders. Due to the indeterminate nature of the coordination/support requests, this task is currently intended to proceed on a time and materials basis to the budgeted amount shown for this task. If more support requests are received, they are to be authorized by the City as additional work.

Deliverables:

- Response to RFI's and review of City's bid tabulation
- Addenda (if needed)

Task 6.5 Construction Support (Phase 2a)
To support the City during the construction phase of the project, the Wallace Group team will provide Design Support During Construction (DSDC) under the City's direction. While we expect the City and their Construction Management team to manage direct formal communications with the construction Contractor forces, our team will be available to attend construction meetings, assist in submittal reviews and responses to Contractor Requests for Information (RFI's), review required shop drawing submittals and provide consultation and other typical DSDC supports.

Construction Management and Construction Contractor staff are expected to maintain clean and clear records of field changes authorized by the City and deemed necessary to accommodate construction means and methods. The DSDC team will be available to assist in the preparation of "as-built" drawings based on clean and legible markups provided by the City and the construction phase staff.

This task is offered as budget allows through the end of the project construction. Due to the indeterminate nature of the coordination/support requests, this task is currently intended to proceed within the budgeted amount on a time and materials basis to the NTE amount shown for this task. If more support requests are received, they are to be authorized by the City as additional work (as/if needed).

Deliverables:

- Review and respond to material submittals
- Review and respond to RFI's
- Perform site visits to review issues or concerns
- Prepare revisions to plan sheets or added detail drawings for construction clarifications
- Assist in the determination of quantities and payment analysis for potential changes

- Record drawings

Task 7: Phase 2b Package

Task 7 is for final design through construction support of Phase 2b which conforms at the El Dorado Drive roundabout taper where the full width cross section terminates and will include widening the roadway and median from there to the Boronda Road/Natividad Road intersection. This Phase will also include tapering back to existing on Natividad Road and the east leg of Boronda Road prior to Gabilan Creek.

Kimley-Horn staff will lead the design effort for Phase 2b with Wallace Group providing the project control plan, drainage, utility, sewer, planting and irrigation design. The direction for the design will be based on coordination with the City to date and it is not expected that the future design will vary from the approved GAD. Prior to the two draft submittals, the PS&E packages will be reviewed by independent reviewers for technical completeness and consistency as well as multilane roundabout details.

<u>Task 7.1 60% PS&E (Phase 2b)</u>

7.1.1 60% Plans

The Wallace Group team will develop the GAD designs prepared and approved in Task 2 to a 60% level of detail. Plan sheets will be prepared using Wallace Group's standard title block on 22"x34" sheets at 1" = 20' scale with close up details as needed. The plans will assist in further identifying specific project needs and recommend solutions to meet those needs.

Storm drain plan, profile, and detail drawings will be prepared for a proposed roadway storm drain network along Boronda Road and Natividad Road with proposed connections to the existing storm drain system located in Boronda Road east of El Dorado Road. Stormwater control measures provided in the median, sidewalk planters, and splitter islands will have overflow outlets connecting to the existing storm drain main. If relocated agricultural ditches are required, drainage inlet structures may be provided for connection to the storm drain system. Details will be provided for the stormwater facilities using City standards where applicable.

Sanitary sewer plan and profile drawing will be provided for a trunk line to be extended from the Phase 2a limit to a location coordinated with the WASP and CASP near Natividad Road. Stub outs for future connections to the north will be provided where required.

This task includes the placement of a conduit per the City requirements for future fiber optic needs at a minimum depth of 3-feet. The City will provide Wallace Group with the preferred horizontal location and conduit diameter for design.

Wallace Group's Landscape Architecture Department will prepare landscape planting, irrigation, and MAWA calculation plans. Planting plans will provide plant schedule, planting types, sizes, quantities, and locations. Irrigation plans will provide irrigation equipment types, layout, and water demand calculations (MAWA) as required for landscape water efficiency ordinances and City review.

The following sheets are anticipated:

- Title Sheet..... (1 sheet, No Scale)
- General Notes..... (2 sheets, No Scale)
- Key Map.....(1 sheet, 1"=100' Scale)
- Project Control Plan..... (1 sheet, 1"=100' Scale)
- Typical Cross Sections..... (11 sheets, No Scale)

- Demolition Plans..... (3 sheets, 1"=50' Scale)
- Layouts..... (11 sheets, 1"=20' Scale)
- Profiles..... (12 sheets, 1"=20' Scale)
- Construction Details..... (14 sheets, scale varies)
- Contour Grading Plan.....(11 sheets, 1"=20' Scale)
- Drainage Plan.....(11 sheets, 1"=20' Scale)
- Drainage Profiles.....(14 sheets, 1"=20' Scale)
- Drainage Details.....(7 sheets, scale varies)
- Utility Plan.....(11 sheets, 1"=20' Scale)
- Sanitary Sewer Plan.....(11 sheets, 1"=20' Scale)
- Sanitary Sewer Profiles.....(6 sheets, 1"=20' Scale)
- Construction Area Signs..... (1 sheet, No Scale)
- Motorist Information Plan.....(1 sheet, No Scale)
- Stage Construction Plans..... (18 sheets, 1"=50' Scale)
- Pavement Delineation Plans.....(11 sheets, 1"=20' Scale)
- Signing Plans..... (11 sheets, 1"=20' Scale)
- Signing Details and Quantities.....(5 sheets, scale varies)
- Planting Plans.....(11 sheets, 1"=20' Scale)
- Planting Notes and Details.....(1 sheet, scale varies)
- Irrigation Plans.....(11 sheets, 1"=20' Scale)
- Irrigation Calculations, Notes, and Details.....(4 sheets, scale varies)
- Erosion and Sediment Control Plan.....(11 sheets, 1"=20' Scale)
- Flashing Beacon System Plans.....(6 sheets, scale varies)
- Lighting Plans, Notes, and Details.....(12 sheets, scale varies)

  Total Estimated Plan Sheets.....230

This task also includes finalizing the Basis for Design Technical Memorandum to capture any updates and potential design exceptions.

7.1.2 60% Technical Specifications

Construction specifications will be produced based on applicable City and Caltrans standards as appropriate. Based on our schedule we anticipate the technical specifications will initially be formatted per Caltrans 2026 Construction Contract Specification format. We anticipate the City will prepare front end and bidding sections of this document, and our team will provide the technical section with stamps for each discipline. At 60%, the technical specifications will be outline format only, and detailed provisions will be added at the 90% submittal.

7.1.3 60% Cost Estimate

Preliminary quantity takeoffs will be generated based on the draft 60% design. Relevant unit bid information will be acquired from the City and the State's "As-Bid" databases and adjusted to represent anticipated project costs. Based on this information, a Draft Engineer's Opinion of Probable Construction Costs (EOPCC) will be generated and submitted to the City for review. We anticipate using a 15% contingency at this stage.

7.1.4 Draft SWCP

Wallace Group will develop a Storm Water Control Plan (SWCP) and Draft Stormwater Control Operations and Maintenance Plan (O&M Plan) for the Phase 2b project following the same scope as presented for Phase 2a (see Task 6.1.4).

7.1.5 Draft Drainage Report
A hydrological and hydraulic analysis for proposed Phase 2b improvements will be performed to ensure the City's hydraulic design criteria (found in the City's Standard Specifications, Design Standards, and Standard Plans) for drainage features are met. Wallace Group will prepare a Draft Drainage Report following the same scope as presented for Phase 2a (see Task 6.1.5).

7.1.6 Environmental Permit Coordination
This task includes consultation with EMC to incorporate analysis and conditions contained in the permits into the 60% project design of Phase 2b. Four (4) meetings between EMC biologists and the project design team are included in this task.

Deliverables:

- 60% Plans (PDF)
- Final Basis for Design Technical Memorandum (PDF)
- 60% Technical Specifications (Word and PDF)
- 60% Cost Estimate (PDF)
- Draft 60% Phase 2b Storm Water Control Plan (PDF)
- Draft 60% Phase 2b O&M Plan (PDF)
- Draft 60% Phase 2b Drainage Report (PDF)

<u>Task 7.2 90% PS&E (Phase 2b)</u>

7.2.1 90% Plans
At the beginning of this task, we anticipate receiving written comments on the 60% PS&E task deliverables. The Wallace Group team will coordinate, attend, and provide notes on the 60% submittal review meeting using video conferencing software with City staff. The final design will proceed based upon the comments and mutually agreed upon resolution. It is anticipated that comments will be relatively minor, and adjustments to the approved configuration will not be required at this stage of design. We will formalize our understanding of the City's feedback and verify comments have been addressed using our Comment Resolution forms as we proceed with preparations of the final construction documents. The project design and plans will be further developed with relevant details, notes, and pay item callouts.

7.2.2 90% Technical Specifications
The technical specifications outline will be filled in with detailed provisions tailored to the project components. Based on our current schedule we will update to include 2027 Caltrans standard special provisions (SSPs) and write our own when needed following Caltrans standards. We will note areas that require City input and coordination.

7.2.3 90% Cost Estimate
The cost estimate will be updated based on any changes to the project design and submitted to the City for review. We anticipate using a 10% contingency at this stage.

~~*7.2.4 Draft Final SWCP*~~
~~The stormwater management design will be further developed for the 90% submittal with details, plans, and calculations for the proposed structural control measures. City comments on the 60% stormwater control plan and design will be evaluated and incorporated into the plans where necessary. Calculations and documentation of compliance with the PCR's will be provided.~~

~~Wallace Group will update the draft O&M Plan to describe the selected stormwater facilities in more detail than provided in the 60% draft O&M Plan. The plan will provide instructions on how the facilities function and how they should be maintained to promote long-term performance. This task includes incorporating City comments on the 60% draft O&M Plan.~~

~~*7.2.5 Draft Final Drainage Report*~~
~~The Drainage Report will be finalized for the 90% submittal with analysis updated for revisions based on review of the 60% design.~~

7.2.6 Environmental Permit Coordination
This task includes consultation with EMC to incorporate analysis and conditions contained in the permits into the 90% project design of Phase 2b. Up to two (2) meetings between EMC biologists and the project design team are included in this task.

Deliverables:

- 90% Plans (PDF)
- 90% Technical Specifications (Word and PDF)
- 90% Cost Estimate (PDF)
- ~~Draft 90% Phase 2b Storm Water Control Plan (PDF)~~
- ~~Draft 90% Phase 2b O&M Plan (PDF)~~
- ~~Draft 90% Phase 2b Drainage Report (PDF)~~

Task 7.3 Final PS&E (Phase 2b)
At the beginning of this task, we anticipate receiving written comments on the 90% PS&E task deliverables. The Wallace Group team will coordinate, attend, and provide notes on the 90% submittal review meeting using video conferencing software with City staff. The final design will proceed based upon the comments and mutually agreed upon resolution. It is anticipated that comments will be relatively minor, and adjustments to the approved configuration will not be required at this stage of design. We will formalize our understanding of the City's feedback and verify comments have been addressed using our Comment Resolution forms as we proceed with preparations of the final construction documents.

7.3.1 Final Plans
The project design and plans will be finalized and further developed with relevant details, notes, and pay item callouts. Upon completion, the plan sheets will be delivered to the City for review and approval.

7.3.2 Final Technical Specifications
Technical specifications will be finalized based on minor revisions to the plans or bid items.

7.3.3 Final Cost Estimate
The cost estimate will be finalized based on minor revisions to the project plans or bid items. We anticipate using a 5% contingency at this stage.

Following these revisions, the bid documents will be stamped, sealed, and presented to the City for advertisement for construction.

7.3.4 Final SWCP
Wallace Group will update and submit the Final SWCP and O&M Plan after incorporation of revisions based on reconciled comments from the City on the 60% submittal.

7.3.5 Final Drainage Report
Wallace Group will update and submit the Final Drainage Report after incorporation of revisions based on reconciled comments from the City on the 60% submittal.

7.3.6 Environmental Permit Coordination
This task includes consultation with EMC to incorporate analysis and conditions contained in the permits into the final project design of Phase 2b. One (1) meeting between EMC biologists and the project design team is included in this task.

Deliverables:

- Final Plans (PDF and DWG)
- Final Technical Specifications (Word and PDF)
- Final Cost Estimate (PDF)
- Final Phase 2b Storm Water Control Plan (PDF)
- Final Phase 2b O&M Plan (PDF)
- Final Phase 2b Drainage Report (PDF)

Task 7.4 Bidding Support (Phase 2b)

During the advertising phase of the project, Wallace Group team staff will be available to answer bidding related questions, provide revised plan sheets and quantities and provide information to the City for their preparation of addenda if necessary. We will also be available to review the City's bid tabulation to provide our input on the responsiveness of bidders. Due to the indeterminate nature of the coordination/support requests, this task is currently intended to proceed on a time and materials basis to the budgeted amount shown for this task. If more support requests are received, they are to be authorized by the City as additional work.

Deliverables:

- Response to RFI's and review of City's bid tabulation
- Addenda (if needed)

Task 7.5 Construction Support (Phase 2b)

To support the City during the construction phase of the project, the Wallace Group team will provide Design Support During Construction (DSDC) under the City's direction. While we expect the City and their Construction Management team to manage direct formal communications with the construction Contractor forces, our team will be available to attend construction meetings, assist in submittal reviews and responses to Contractor Requests for Information (RFI's), review required shop drawing submittals and provide consultation and other typical DSDC supports.

Construction Management and Construction Contractor staff are expected to maintain clean and clear records of field changes authorized by the City and deemed necessary to accommodate construction means and methods. The DSDC team will be available to assist in the preparation of "as-built" drawings based on clean and legible markups provided by the City and the construction phase staff.

This task is offered if budget allows at the end of the project construction. Due to the indeterminate nature of the coordination/support requests, this task is currently intended to proceed within the budgeted amount on a time and materials basis to the NTE amount shown for this task. If more support requests are received, they are to be authorized by the City as additional work (as/if needed).

Deliverables:

- Review and respond to material submittals
- Review and respond to RFI's
- Perform site visits to review issues or concerns
- Prepare revisions to plan sheets or added detail drawings for construction clarifications
- Assist in the determination of quantities and payment analysis for potential changes
- Record drawings

Task 8: Public Information and Outreach

The Wallace Group team will be available to participate in public outreach events in coordination with the City's Community Relations Office. The exact nature of these events is to be determined, and we anticipate this as a topic of discussion at the project kick off meeting. For budgeting purposes, we have assumed there will be four events held over the course of the project that our team will participate in. The Wallace Group team will prepare outreach materials for community engagement which is expected to include static and video project renderings/simulations to show the layouts and operations of the roundabouts, multi-use path, crosswalks, and project features. The team will provide two (2) isometric intersection photorealistic renderings. The renderings will include selected views of the corridor at jointly agreed upon locations. The team will also provide two plan view image boards that show the design of the corridor. These materials will be the City's property to use at community meetings, school board meetings, Commission meetings, City Council meetings, and social media postings.

We have included time for key team members to attend and present at up to four in person outreach events that will be organized and lead by City staff to obtain community input, provide education, or answer questions. For each event, our Team may prepare PowerPoint presentations and/or other materials such as handouts, display boards, questionnaires, comment forms, etc.

To help facilitate the meetings, we will provide video simulations of the corridor at the El Dorado Drive and Natividad Road intersections showing ultimate and design year traffic operations. Wallace Group will also provide image boards that include plan view renderings with planting themes along with a rendered site plan for each intersection.

Deliverables:

- Attendance at up to 4 public meetings
- 2 video simulations
- 2 isometric intersection photorealistic renderings
- 2 plan view image boards
- Various collateral items for public engagement (up to budgeted authorization)

EXHIBIT "B"

Wallace Group Team Resource Estimate for the
Boronda Road Congestion Relief Phase 2 Project

BUDGET SUMMARY

PHASE / TASK No.	TASK DESCRIPTION	PRINCIPAL HRS	DIRECTOR HRS	SENIOR ENGINEER III HRS	SENIOR ENGINEER II HRS	ENGINEER IV HRS	ENGINEER III HRS	ENGINEER I HRS	ASSOCIATE ENGINEER II HRS	DIRECTOR OF LANDSCAPE ARCHITECTURE HRS	SENIOR LANDSCAPE ARCHITECT III HRS	LANDSCAPE ARCHITECT IV HRS	LANDSCAPE DESIGNER II HRS	SENIOR LAND SURVEYOR II HRS	LAND SURVEYOR II HRS	SURVEY TECHNICIAN III HRS	PARTY CHIEF* HRS	INSTRUMENT PERSON* HRS	DIRECTOR CONSTRUCTION MANAGEMENT HRS	PROJECT ASSISTANT II HRS	KIMLEY-HORN HRS	EARTH SYSTEMS PACIFIC HRS	EMC PLANNING HRS	Misc. Direct Costs Cost	TOTAL LABOR HOURS HRS	LABOR $	TOTAL COST $
	RATE	$290	$236	$232	$225	$199	$194	$184	$155	$202	$184	$168	$134	$210	$186	$160	$250	$150	$150	$140							
1	**Project Management and Meetings**																										
1.1	Project Management	38	12		73															8	130				261	$71,747	$71,747
1.2	Meetings	41	20		51					14											120			$8,848	246	$69,513	$78,361
1.3	QA/QC and Constructability Analysis		8	320		48													40		100				516	$132,180	$132,180
1.4	Grant Support (Optional Task)	32			48		32			10			24								120				266	$63,124	$63,124
2	**Preliminary Engineering Studies**																										
2.1	Concept Refinement & Traffic Operations																										
2.1.1	*Traffic Volume Forecasts*																				40				40	$12,320	$12,320
2.1.2	*Intersection Operations*	4			4																54				62	$17,920	$17,920
2.1.3	*Concept Layout Refinements*	8			24		16														104				152	$36,384	$36,384
2.1.4	*Design Basis Memorandum*	2			8		16														22				48	$12,064	$12,064
2.1.5	*Pedestrian Crossing Assessment*	4			6																37				47	$13,730	$13,730
2.1.6	*Data Collection*																				45			$3,770	45	$8,125	$11,895
2.1.7	*Traffic Simulation*																				169				169	$44,825	$44,825
2.2	Geometric Approval Drawings	8			40		120														437				605	$152,290	$152,290
2.3	Preliminary Hydraulic Reports	2	60	20	6			200																	288	$57,530	$57,530
2.4	Geotechnical Recommendations	8			24		16															112		$19,960	160	$30,764	$50,724
2.5	Landscape Concept	2			4					8	18	30	60												122	$19,488	$19,488
2.6	Preliminary Photometric Analysis	2			2																66				70	$13,880	$13,880
2.7	Utility A Letters	2			8		16		24																50	$9,204	$9,204
2.8	Environmental Commitment Record	4			8																		8		20	$4,780	$4,780
3	**Surveys and Mapping**																										
3.1	Survey Densification		12		8		8								50	100	50	50							278	$51,484	$51,484
3.2	Right of Way Engineering		5												20	40	20	20							105	$19,300	$19,300
3.3	Record of Survey		16												32	32	36	36						$2,500	152	$29,248	$31,748
4	**Utility Coordination**																										
4.1	Potholing	4	6		24		40							2	64	64	30	30				10		$188,477	274	$51,900	$240,377
4.2	Utility Notice to Owners ("B" Letters)	20			70		60																	$350	150	$33,190	$33,540
4.3	Utility Agreements ("C" Letters)	4			40			40																	84	$17,520	$17,520
5	**Right of Way Determination**	10	24		16		8							24	64	64									210	$40,900	$40,900

Wallace Group Team Resource Estimate for the
Boronda Road Congestion Relief Phase 2 Project

BUDGET SUMMARY

PHASE / TASK No.	TASK DESCRIPTION	PRINCIPAL HRS	DIRECTOR HRS	SENIOR ENGINEER III HRS	SENIOR ENGINEER II HRS	ENGINEER IV HRS	ENGINEER III HRS	ENGINEER I HRS	ASSOCIATE ENGINEER II HRS	DIRECTOR OF LANDSCAPE ARCHITECTURE HRS	SENIOR LANDSCAPE ARCHITECT III HRS	LANDSCAPE ARCHITECT IV HRS	LANDSCAPE DESIGNER II HRS	SENIOR LAND SURVEYOR II HRS	LAND SURVEYOR II HRS	SURVEY TECHNICIAN III HRS	PARTY CHIEF* HRS	INSTRUMENT PERSON* HRS	DIRECTOR CONSTRUCTION MANAGEMENT HRS	PROJECT ASSISTANT II HRS	KIMLEY-HORN HRS	EARTH SYSTEMS PACIFIC HRS	EMC PLANNING HRS	Misc. Direct Costs Cost	TOTAL LABOR HOURS HRS	LABOR $	TOTAL COST $
	RATE	$290	$236	$232	$225	$199	$194	$184	$155	$202	$184	$168	$134	$210	$186	$160	$250	$150	$150	$140							
6	**Phase 2a Package**																										
6.1	60% PS&E (Phase 2a)																										
6.1.1	*60% Plans*	22	84	10	110		256	504	212	8	18	40	80		4	16					395				1,759	$344,906	$344,906
6.1.2	*60% Technical Specifications*	4	20	4	24		40			8	12										22				134	$30,492	$30,492
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*	2	12	2	12		24	64	40	4	12										88				260	$52,074	$52,074
6.1.4	*Draft SWCP*		30	8				80																	118	$23,656	$23,656
6.1.5	*Draft Drainage Report*		40	8				120																	168	$33,376	$33,376
6.1.6	*Environmental Permit Coordination*	4	8		8			16															12		48	$10,492	$10,492
6.2	90% PS&E (Phase 2a)																										
6.2.1	*90% Plans*	12	62	6	56		128	268	108	12	24	48	80		2	8					285				1,099	$212,564	$212,564
6.2.2	*90% Technical Specifications*	2	18	2	16		24			12	12										13				99	$22,280	$22,280
6.2.3	*90% Cost Estimate*	1	36	2	8		32	32	32	6	8										33				190	$38,405	$38,405
~~*6.2.4*~~	~~*Draft Final SWCP*~~																										
~~*6.2.5*~~	~~*Draft Final Drainage Report*~~																										
6.2.6	*Environmental Permit Coordination*	2	6		4			12															6		30	$6,454	$6,454
6.3	Final PS&E (Phase 2a)																										
6.3.1	*Final Plans*	4	41	4	24		84	176	52	8	18	24	50		1	4					167				657	$124,165	$124,165
6.3.2	*Final Technical Specifications*	1	14	2	8		12			8	12										13				70	$16,110	$16,110
6.3.3	*Final Cost Estimate*	1	30	2	4		8	20	16	4	8										24				117	$24,536	$24,536
6.3.4	*Final SWCP*		16	4				46																	66	$13,168	$13,168
6.3.5	*Final Drainage Report*		38	8				60																	106	$21,864	$21,864
6.3.6	*Environmental Permit Coordination*	2	4		4			4															3		17	$3,835	$3,835
6.4	Bidding Support (Phase 2a)	8	6		40		32	6		8	8										10		4		122	$27,406	$27,406
6.5	Construction Support (Phase 2a)	40	40		240		232	210		12	24		18								100		4	$300	920	$203,220	$203,520

Wallace Group Team Resource Estimate for the
Boronda Road Congestion Relief Phase 2 Project

BUDGET SUMMARY

PHASE / TASK No.	TASK DESCRIPTION	PRINCIPAL HRS	DIRECTOR HRS	SENIOR ENGINEER III HRS	SENIOR ENGINEER II HRS	ENGINEER IV HRS	ENGINEER III HRS	ENGINEER I HRS	ASSOCIATE ENGINEER II HRS	DIRECTOR OF LANDSCAPE ARCHITECTURE HRS	SENIOR LANDSCAPE ARCHITECT III HRS	LANDSCAPE ARCHITECT IV HRS	LANDSCAPE DESIGNER II HRS	SENIOR LAND SURVEYOR II HRS	LAND SURVEYOR II HRS	SURVEY TECHNICIAN III HRS	PARTY CHIEF* HRS	INSTRUMENT PERSON* HRS	DIRECTOR CONSTRUCTION MANAGEMENT HRS	PROJECT ASSISTANT II HRS	KIMLEY-HORN HRS	EARTH SYSTEMS PACIFIC HRS	EMC PLANNING HRS	Misc. Direct Costs Cost	TOTAL LABOR HOURS HRS	LABOR $	TOTAL COST $
	RATE	$290	$236	$232	$225	$199	$194	$184	$155	$202	$184	$168	$134	$210	$186	$160	$250	$150	$150	$140							
7	**Phase 2b Package**																										
7.1	60% PS&E (Phase 2b)																										
7.1.1	*60% Plans*	4	84	10	16		24	416		14	24	40	80		4	16					1586				2,318	$507,662	$507,662
7.1.2	*60% Technical Specifications*		20	4	8		12			8	12										46				110	$26,120	$26,120
7.1.3	*60% Cost Estimate*		12	2	2		6	52		4	12										154				244	$51,924	$51,924
7.1.4	*Draft SWCP*		30	8				80																	118	$23,656	$23,656
7.1.5	*Draft Drainage Report*		40	8				120																	168	$33,376	$33,376
7.1.6	*Environmental Permit Coordination*	4	8		8			16															12		48	$10,492	$10,492
7.2	90% PS&E (Phase 2b)																										
7.2.1	*90% Plans*	2	62	6	8		16	224		12	32	48	88		2	8					938				1,446	$303,854	$303,854
7.2.2	*90% Technical Specifications*		18	2	6		8			12	12										25				83	$18,421	$18,421
7.2.3	*90% Cost Estimate*		36	2	2		4	20		6	8										75				153	$32,975	$32,975
~~*7.2.4*~~	~~*Draft Final SWCP*~~																										
~~*7.2.5*~~	~~*Draft Final Drainage Report*~~																										
7.2.6	*Environmental Permit Coordination*	2	6		4			12															6		30	$6,454	$6,454
7.3	Final PS&E (Phase 2b)																										
7.3.1	*Final Plans*	1	41	4	6		8	152		10	18	36	50		1	4					468				799	$166,890	$166,890
7.3.2	*Final Technical Specifications*		14	2	4		6			8	12										15				61	$13,631	$13,631
7.3.3	*Final Cost Estimate*		30	2	1		2	14		6	8										35				98	$21,092	$21,092
7.3.4	*Final SWCP*		16	4				46																	66	$13,168	$13,168
7.3.5	*Final Drainage Report*		32	8				60																	100	$20,448	$20,448
7.3.6	*Environmental Permit Coordination*	2	4		4			4															3		17	$3,835	$3,835
7.4	Bidding Support (Phase 2b)	8	6		12		8	6		8	8										30		4		90	$22,810	$22,810
7.5	Construction Support (Phase 2b)	24	40		184		160	50		12	24		18								200		4	$600	716	$168,972	$169,572
8	**Public Information and Outreach**	44			36					8		18	80								300			$6,230	486	$107,920	$114,150
	SUB-TOTALS	391	1167	464	1323	48	1458	3130	484	230	344	284	628	26	244	356	136	136	40	8	**6466**	**121.5**	**66**	**$231,035**	**17,551**		**$4,007,148**
	WALLACE GROUP LABOR COSTS	$113,390	$275,412	$107,648	$297,675	$9,552	$282,852	$575,920	$75,020	$46,460	$63,296	$47,712	$84,152	$5,460	$45,384	$56,960	$34,000	$20,400	$6,000	$1,120							**$2,148,413**
	WALLACE GROUP DIRECT COSTS																										**$194,065**
	SUBCONSULTANT DIRECT COSTS																				$1,607,980	$41,500	$15,190				**$1,664,670**
	DIRECT COSTS OVERHEAD @																									15%	**$278,810**
	TOTAL																										**$4,285,958**

Task Budgets may fluctuate within Overall Budget
*** Designates Prevailing Wage**

Wallace Group Team Resource Estimate for the

Boronda Road Congestion Relief Phase 2 Project

WALLACE GROUP CIVIL & TRANSPORTATION

PHASE/ TASK	TASK DESCRIPTION	PRINCIPAL	SENIOR ENGINEER III	SENIOR ENGINEER II	ENGINEER IV	ENGINEER III	ENGINEER I	ASSOCIATE ENGINEER II	PROJECT ASSISTANT II	Misc. Direct Costs	TOTAL LABOR HOURS		TOTAL
		JAA HRS	JLP HRS	SMH HRS	MJH HRS	EMP HRS	AE HRS	TBD HRS	INITIALS HRS		HRS	LABOR $	COST $
	RATE	$290	$232	$225	$199	$194	$184	$155	$140				
1	**Project Management and Meetings**												
1.1	Project Management	38		73					8		119	$28,565	$28,565
1.2	Meetings	41		51						$288	92	$23,365	$23,653
1.3	QA/QC and Constructability Analysis		320		48						368	$83,792	$83,792
1.4	Grant Support (Optional Task)	32		48		32					112	$26,288	$26,288
2	**Preliminary Engineering Studies**												
2.1	Concept Refinement & Traffic Operations												
2.1.1	*Traffic Volume Forecasts*												
2.1.2	*Intersection Operations*	4		4							8	$2,060	$2,060
2.1.3	*Concept Layout Refinements*	8		24		16					48	$10,824	$10,824
2.1.4	*Design Basis Memorandum*	2		8		16					26	$5,484	$5,484
2.1.5	*Pedestrian Crossing Assessment*	4		6							10	$2,510	$2,510
2.1.6	*Data Collection*												
2.1.7	*Traffic Simulation*												
2.2	Geometric Approval Drawings	8		40		120					168	$34,600	$34,600
2.3	Preliminary Hydraulic Reports	2		6							8	$1,930	$1,930
2.4	Geotechnical Recommendations	8		24		16					48	$10,824	$10,824
2.5	Landscape Concept	2		4							6	$1,480	$1,480
2.6	Preliminary Photometric Analysis	2		2							4	$1,030	$1,030
2.7	Utility A Letters	2		8		16		24			50	$9,204	$9,204
2.8	Environmental Commitment Record	4		8							12	$2,960	$2,960
3	**Surveys and Mapping**												
3.1	Survey Densification			8		8					16	$3,352	$3,352
3.2	Right of Way Engineering												
3.3	Record of Survey												
4	**Utility Coordination**												
4.1	Potholing	4		24		40				$186,827	68	$14,320	$201,147
4.2	Utility Notice to Owners ("B" Letters)	20		70		60				$350	150	$33,190	$33,540
4.3	Utility Agreements ("C" Letters)	4		40			40				84	$17,520	$17,520
5	**Right of Way Determination**	10		16		8					34	$8,052	$8,052
6	**Phase 2a Package**												
6.1	60% PS&E (Phase 2a)												
6.1.1	*60% Plans*	22		110		256	136	212			736	$138,678	$138,678
6.1.2	*60% Technical Specifications*	4		24		40					68	$14,320	$14,320
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*	2		12		24	24	40			102	$18,552	$18,552
6.1.4	*Draft SWCP*												
6.1.5	*Draft Drainage Report*												
6.1.6	*Environmental Permit Coordination*	4		8							12	$2,960	$2,960
6.2	90% PS&E (Phase 2a)												
6.2.1	*90% Plans*	12		56		128	68	108			372	$70,164	$70,164
6.2.2	*90% Technical Specifications*	2		16		24					42	$8,836	$8,836
6.2.3	*90% Cost Estimate*	1		8		32	20	32			93	$16,938	$16,938
6.2.4	*Draft Final SWCP*												
6.2.5	*Draft Final Drainage Report*												
6.2.6	*Environmental Permit Coordination*	2		4							6	$1,480	$1,480
6.3	Final PS&E (Phase 2a)												
6.3.1	*Final Plans*	4		24		84	36	52			200	$37,540	$37,540
6.3.2	*Final Technical Specifications*	1		8		12					21	$4,418	$4,418
6.3.3	*Final Cost Estimate*	1		4		8	12	16			41	$7,430	$7,430
6.3.4	*Final SWCP*												
6.3.5	*Final Drainage Report*												
6.3.6	*Environmental Permit Coordination*	2		4							6	$1,480	$1,480
6.4	Bidding Support (Phase 2a)	8		40		32					80	$17,528	$17,528
6.5	Construction Support (Phase 2a)	40		240		232	160			$300	672	$140,048	$140,348
7	**Phase 2b Package**												
7.1	60% PS&E (Phase 2b)												
7.1.1	*60% Plans*	4		16		24	48				92	$18,248	$18,248
7.1.2	*60% Technical Specifications*			8		12					20	$4,128	$4,128
7.1.3	*60% Cost Estimate*			2		6	12				20	$3,822	$3,822
7.1.4	*Draft SWCP*												
7.1.5	*Draft Drainage Report*												
7.1.6	*Environmental Permit Coordination*	4		8							12	$2,960	$2,960
7.2	90% PS&E (Phase 2b)												
7.2.1	*90% Plans*	2		8		16	24				50	$9,900	$9,900
7.2.2	*90% Technical Specifications*			6		8					14	$2,902	$2,902
7.2.3	*90% Cost Estimate*			2		4	8				14	$2,698	$2,698
7.2.4	*Draft Final SWCP*												
7.2.5	*Draft Final Drainage Report*												
7.2.6	*Environmental Permit Coordination*	2		4							6	$1,480	$1,480
7.3	Final PS&E (Phase 2b)												
7.3.1	*Final Plans*	1		6		8	12				27	$5,400	$5,400
7.3.2	*Final Technical Specifications*			4		6					10	$2,064	$2,064
7.3.3	*Final Cost Estimate*			1		2	6				9	$1,717	$1,717
7.3.4	*Final SWCP*												
7.3.5	*Final Drainage Report*												
7.3.6	*Environmental Permit Coordination*	2		4							6	$1,480	$1,480
7.4	Bidding Support (Phase 2b)	8		12		8					28	$6,572	$6,572
7.5	Construction Support (Phase 2b)	24		184		160				$600	368	$79,400	$80,000
8	**Public Information and Outreach**	44		36						$1,550	80	$20,860	$22,410
	SUBTOTALS	**391**	**320**	**1323**	**48**	**1458**	**606**	**484**	**8**	**$189,915**	**4638**	**$965,353**	**$1,155,268**
	TOTALS	**$113,390**	**$74,240**	**$297,675**	**$9,552**	**$282,852**	**$111,504**	**$75,020**	**$1,120**	**$189,915**	**4638**	**$965,353**	**$1,155,268**

Wallace Group Team Resource Estimate for the

Boronda Road Congestion Relief Phase 2 Project WG WATER RESOURCES

PHASE/ TASK	TASK DESCRIPTION	DIRECTOR	SENIOR ENGINEER III	ENGINEER I	Misc. Direct Costs	TOTAL LABOR HOURS		TOTAL
		GCH HRS	VGH HRS	AE HRS		HRS	LABOR $	COST $
	RATE	$236	$232	$184				
1	**Project Management and Meetings**							
1.1	Project Management	4				4	$944	$944
1.2	Meetings	18				18	$4,248	$4,248
1.3	QA/QC and Constructability Analysis							
1.4	Grant Support (Optional Task)							
2.1	**Concept Refinement & Traffic Operations**							
2.1.1	Traffic Volume Forecasts							
2.1.2	Intersection Operations							
2.1.3	Concept Layout Refinements							
2.1.4	Design Basis Memorandum							
2.1.5	Pedestrian Crossing Assessment							
2.1.6	Data Collection							
2.1.7	Traffic Simulation							
2.2	Geometric Approval Drawings							
2.3	Preliminary Hydraulic Reports	60	20	200		280	$55,600	$55,600
2.4	Geotechnical Recommendations							
2.5	**Landscape Concept**							
2.6	Preliminary Photometric Analysis							
2.7	Utility A Letters							
2.8	Environmental Commitment Record							
3	**Surveys and Mapping**							
3.1	Survey Densification							
3.2	Right of Way Engineering							
3.3	Record of Survey							
4	**Utility Coordination**							
4.1	Potholing							
4.2	Utility Notice to Owners ("B" Letters)							
6	**Phase 2a Package**							
6.1	60% PS&E (Phase 2a)							
6.1.1	*60% Plans*	80	10	368		458	$88,912	$88,912
6.1.2	*60% Technical Specifications*	20	4			24	$5,648	$5,648
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*	12	2	40		54	$10,656	$10,656
6.1.4	*Draft SWCP*	30	8	80		118	$23,656	$23,656
6.1.5	*Draft Drainage Report*	40	8	120		168	$33,376	$33,376
6.1.6	*Environmental Permit Coordination*	8		16		24	$4,832	$4,832
6.2	90% PS&E (Phase 2a)							
6.2.1	*90% Plans*	60	6	200		266	$52,352	$52,352
6.2.2	*90% Technical Specifications*	18	2			20	$4,712	$4,712
6.2.3	*90% Cost Estimate*	36	2	12		50	$11,168	$11,168
6.2.4	*Draft Final SWCP*							
6.2.5	*Draft Final Drainage Report*							
6.2.6	*Environmental Permit Coordination*	6		12		18	$3,624	$3,624
6.3	Final PS&E (Phase 2a)							
6.3.1	*Final Plans*	40	4	140		184	$36,128	$36,128
6.3.2	*Final Technical Specifications*	14	2			16	$3,768	$3,768
6.3.3	*Final Cost Estimate*	30	2	8		40	$9,016	$9,016
6.3.4	*Final SWCP*	16	4	46		66	$13,168	$13,168
6.3.5	*Final Drainage Report*	38	8	60		106	$21,864	$21,864
6.3.6	*Environmental Permit Coordination*	4		4		8	$1,680	$1,680
6.4	Bidding Support (Phase 2a)	6		6		12	$2,520	$2,520
6.5	Construction Support (Phase 2a)	40		50		90	$18,640	$18,640
7	**Phase 2b Package**							
7.1	60% PS&E (Phase 2b)							
7.1.1	*60% Plans*	80	10	368		458	$88,912	$88,912
7.1.2	*60% Technical Specifications*	20	4			24	$5,648	$5,648
7.1.3	*60% Cost Estimate*	12	2	40		54	$10,656	$10,656
7.1.4	*Draft SWCP*	30	8	80		118	$23,656	$23,656
7.1.5	*Draft Drainage Report*	40	8	120		168	$33,376	$33,376
7.1.6	*Environmental Permit Coordination*	8		16		24	$4,832	$4,832
7.2	90% PS&E (Phase 2b)							
7.2.1	*90% Plans*	60	6	200		266	$52,352	$52,352
7.2.2	*90% Technical Specifications*	18	2			20	$4,712	$4,712
7.2.3	*90% Cost Estimate*	36	2	12		50	$11,168	$11,168
7.2.4	*Draft Final SWCP*							
7.2.5	*Draft Final Drainage Report*							
7.2.6	*Environmental Permit Coordination*	6		12		18	$3,624	$3,624
7.3	Final PS&E (Phase 2b)							
7.3.1	*Final Plans*	40	4	140		184	$36,128	$36,128
7.3.2	*Final Technical Specifications*	14	2			16	$3,768	$3,768
7.3.3	*Final Cost Estimate*	30	2	8		40	$9,016	$9,016
7.3.4	*Final SWCP*	16	4	46		66	$13,168	$13,168
7.3.5	*Final Drainage Report*	32	8	60		100	$20,448	$20,448
7.3.6	*Environmental Permit Coordination*	4		4		8	$1,680	$1,680
7.4	Bidding Support (Phase 2b)	6		6		12	$2,520	$2,520
7.5	Construction Support (Phase 2b)	40		50		90	$18,640	$18,640
8	**Public Information and Outreach**							
	SUBTOTALS	**1072**	**144**	**2524**		**3740**	**$750,816**	**$750,816**
	TOTALS	**$252,992**	**$33,408**	**$464,416**		**3740**	**$750,816**	**$750,816**

Wallace Group Team Resource Estimate for the

Boronda Road Congestion Relief Phase 2 Project WALLACE GROUP LANDSCAPE ARCHITECTURE

PHASE/ TASK	TASK DESCRIPTION	DIRECTOR OF LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT III	LANDSCAPE ARCHITECT IV	LANDSCAPE DESIGNER II	PROJECT ASSISTANT II	Misc. Direct Costs	TOTAL LABOR HOURS		TOTAL
		INITIALS	INITIALS	INITIALS	INITIALS	INITIALS				
		HRS	HRS	HRS	HRS	HRS		HRS	LABOR $	COST $
	RATE	$202	$184	$168	$134	$140				
1	**Project Management and Meetings**									
1.1	Project Management									
1.2	Meetings	14						14	$2,828	$2,828
1.3	QA/QC and Constructability Analysis									
1.4	Grant Support (Optional Task)	10			24			34	$5,236	$5,236
2.1	**Concept Refinement & Traffic Operations**									
2.1.1	Traffic Volume Forecasts									
2.1.2	Intersection Operations									
2.1.3	Concept Layout Refinements									
2.1.4	Design Basis Memorandum									
2.1.5	Pedestrian Crossing Assessment									
2.1.6	Data Collection									
2.1.7	Traffic Simulation									
2.2	Geometric Approval Drawings									
2.3	Preliminary Hydraulic Reports									
2.4	Geotechnical Recommendations									
2.5	Landscape Concept	8	18	30	60			116	$18,008	$18,008
2.6	Preliminary Photometric Analysis									
2.7	Utility A Letters									
2.8	Environmental Commitment Record									
6	**Phase 2a Package**									
6.1	60% PS&E (Phase 2a)									
6.1.1	*60% Plans*	8	18	40	80			146	$22,368	$22,368
6.1.2	*60% Technical Specifications*	8	12					20	$3,824	$3,824
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*	4	12					16	$3,016	$3,016
6.1.4	*Draft SWCP*									
6.1.5	*Draft Drainage Report*									
6.1.6	*Environmental Permit Coordination*									
6.2	90% PS&E (Phase 2a)									
6.2.1	*90% Plans*	12	24	48	80			164	$25,624	$25,624
6.2.2	*90% Technical Specifications*	12	12					24	$4,632	$4,632
6.2.3	*90% Cost Estimate*	6	8					14	$2,684	$2,684
6.2.4	*Draft Final SWCP*									
6.2.5	*Draft Final Drainage Report*									
6.2.6	*Environmental Permit Coordination*									
6.3	Final PS&E (Phase 2a)									
6.3.1	*Final Plans*	8	18	24	50			100	$15,660	$15,660
6.3.2	*Final Technical Specifications*	8	12					20	$3,824	$3,824
6.3.3	*Final Cost Estimate*	4	8					12	$2,280	$2,280
6.3.4	*Final SWCP*									
6.3.5	*Final Drainage Report*									
6.3.6	*Environmental Permit Coordination*									
6.4	Bidding Support (Phase 2a)	8	8					16	$3,088	$3,088
6.5	Construction Support (Phase 2a)	12	24		18			54	$9,252	$9,252
7	**Phase 2b Package**									
7.1	60% PS&E (Phase 2b)									
7.1.1	*60% Plans*	14	24	40	80			158	$24,684	$24,684
7.1.2	*60% Technical Specifications*	8	12					20	$3,824	$3,824
7.1.3	*60% Cost Estimate*	4	12					16	$3,016	$3,016
7.1.4	*Draft SWCP*									
7.1.5	*Draft Drainage Report*									
7.1.6	*Environmental Permit Coordination*									
7.2	90% PS&E (Phase 2b)									
7.2.1	*90% Plans*	12	32	48	88			180	$28,168	$28,168
7.2.2	*90% Technical Specifications*	12	12					24	$4,632	$4,632
7.2.3	*90% Cost Estimate*	6	8					14	$2,684	$2,684
7.2.4	*Draft Final SWCP*									
7.2.5	*Draft Final Drainage Report*									
7.2.6	*Environmental Permit Coordination*									
7.3	Final PS&E (Phase 2b)									
7.3.1	*Final Plans*	10	18	36	50			114	$18,080	$18,080
7.3.2	*Final Technical Specifications*	8	12					20	$3,824	$3,824
7.3.3	*Final Cost Estimate*	6	8					14	$2,684	$2,684
7.3.4	*Final SWCP*									
7.3.5	*Final Drainage Report*									
7.3.6	*Environmental Permit Coordination*									
7.4	Bidding Support (Phase 2b)	8	8					16	$3,088	$3,088
7.5	Construction Support (Phase 2b)	12	24		18			54	$9,252	$9,252
8	**Public Information and Outreach**	8		18	80			106	$15,360	$15,360
	SUBTOTALS	**230**	**344**	**284**	**628**			**1486**	**$241,620**	**$241,620**
	TOTALS	**$46,460**	**$63,296**	**$47,712**	**$84,152**			**1486**	**$241,620**	**$241,620**

Wallace Group Team Resource Estimate for the

Boronda Road Congestion Relief Phase 2 Project

WALLACE GROUP SURVEY

PHASE/ TASK	TASK DESCRIPTION	PRINCIPAL	DIRECTOR	SENIOR LAND SURVEYOR II	LAND SURVEYOR II	SURVEY TECHNICIAN III	PARTY CHIEF*	INSTRUMENT PERSON*			PROJECT ASSISTANT II	Misc. Direct Costs	TOTAL LABOR HOURS		TOTAL
		INITIALS	INITIALS	INITIALS	INITIALS	INITIALS	INITIALS	INITIALS	INITIALS	INITIALS	INITIALS				
		HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS		HRS	LABOR $	COST $
	RATE	$290	$236	$210	$186	$160	$250	$150			$140				
1	**Project Management and Meetings**														
1.1	Project Management		8										8	$1,888	$1,888
1.2	Meetings		2										2	$472	$472
1.3	QA/QC and Constructability Analysis		8										8	$1,888	$1,888
1.4	Grant Support (Optional Task)														
3	**Surveys and Mapping**														
3.1	Survey Densification		12		50	100	50	50					262	$48,132	$48,132
3.2	Right of Way Engineering		5		20	40	20	20					105	$19,300	$19,300
3.3	Record of Survey		16		32	32	36	36				$2,500	152	$29,248	$31,748
4	**Utility Coordination**														
4.1	Potholing		6	2	64	64	30	30				$1,650	196	$35,980	$37,630
4.2	Utility Notice to Owners ("B" Letters)														
4.3	Utility Agreements ("C" Letters)														
5	**Right of Way Determination**		24	24	64	64							176	$32,848	$32,848
6	**Phase 2a Package**														
6.1	60% PS&E (Phase 2a)														
6.1.1	*60% Plans*		4		4	16							24	$4,248	$4,248
6.1.2	*60% Technical Specifications*														
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*														
6.1.4	*Draft SWCP*														
6.1.5	*Draft Drainage Report*														
6.1.6	*Environmental Permit Coordination*														
6.2	90% PS&E (Phase 2a)														
6.2.1	*90% Plans*		2		2	8							12	$2,124	$2,124
6.2.2	*90% Technical Specifications*														
6.2.3	*90% Cost Estimate*														
6.2.4	*Draft Final SWCP*														
6.2.5	*Draft Final Drainage Report*														
6.2.6	*Environmental Permit Coordination*														
6.3	Final PS&E (Phase 2a)														
6.3.1	*Final Plans*		1		1	4							6	$1,062	$1,062
6.3.2	*Final Technical Specifications*														
6.3.3	*Final Cost Estimate*														
6.3.4	*Final SWCP*														
6.3.5	*Final Drainage Report*														
6.3.6	*Environmental Permit Coordination*														
6.4	Bidding Support (Phase 2a)														
6.5	Construction Support (Phase 2a)														
7	**Phase 2b Package**														
7.1	60% PS&E (Phase 2b)														
7.1.1	*60% Plans*		4		4	16							24	$4,248	$4,248
7.1.2	*60% Technical Specifications*														
7.1.3	*60% Cost Estimate*														
7.1.4	*Draft SWCP*														
7.1.5	*Draft Drainage Report*														
7.1.6	*Environmental Permit Coordination*														
7.2	90% PS&E (Phase 2b)														
7.2.1	*90% Plans*		2		2	8							12	$2,124	$2,124
7.2.2	*90% Technical Specifications*														
7.2.3	*90% Cost Estimate*														
7.2.4	*Draft Final SWCP*														
7.2.5	*Draft Final Drainage Report*														
7.2.6	*Environmental Permit Coordination*														
7.3	Final PS&E (Phase 2b)														
7.3.1	*Final Plans*		1		1	4							6	$1,062	$1,062
7.3.2	*Final Technical Specifications*														
7.3.3	*Final Cost Estimate*														
7.3.4	*Final SWCP*														
7.3.5	*Final Drainage Report*														
7.3.6	*Environmental Permit Coordination*														
7.4	Bidding Support (Phase 2b)														
7.5	Construction Support (Phase 2b)														
8	**Public Information and Outreach**														
	SUBTOTALS		**95**	**26**	**244**	**356**	**136**	**136**				**$4,150**	**993**	**$184,624**	**$188,774**
	TOTALS		**$22,420**	**$5,460**	**$45,384**	**$56,960**	**$34,000**	**$20,400**				**$4,150**	**993**	**$184,624**	**$188,774**

Wallace Group Team Resource Estimate for the

Boronda Road Congestion Relief Phase 2 Project WALLACE GROUP CONSTRUCTION MANAGEMENT

PHASE/ TASK	TASK DESCRIPTION	PRINCIPAL			DIRECTOR CONSTRUCTION MANAGEMENT		PROJECT ASSISTANT II	Misc. Direct Costs	TOTAL LABOR HOURS		TOTAL
		INITIALS HRS	INITIALS HRS	INITIALS HRS	INITIALS HRS	INITIALS HRS	INITIALS HRS		HRS	LABOR $	COST $
	RATE	$290			$150		$140				
1	**Project Management and Meetings**										
1.1	Project Management										
1.2	Meetings										
1.3	QA/QC and Constructability Analysis				40				40	$6,000	$6,000
1.4	Grant Support (Optional Task)										
2.1	**Concept Refinement & Traffic Operations**										
2.1.1	Traffic Volume Forecasts										
2.1.2	Intersection Operations										
2.1.3	Concept Layout Refinements										
2.1.4	Design Basis Memorandum										
2.1.5	Pedestrian Crossing Assessment										
2.1.6	Data Collection										
2.1.7	Traffic Simulation										
2.2	Geometric Approval Drawings										
2.5	**Landscape Concept**										
2.6	Preliminary Photometric Analysis										
2.7	Utility A Letters										
2.8	Environmental Commitment Record										
3.2	**Right of Way Engineering**										
3.3	Record of Survey										
4	Utility Coordination										
4.1	Potholing										
4.2	**Utility Notice to Owners ("B" Letters)**										
6	**Phase 2a Package**										
6.1	60% PS&E (Phase 2a)										
6.1.1	*60% Plans*										
6.1.2	*60% Technical Specifications*										
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*										
6.1.4	*Draft SWCP*										
6.1.5	*Draft Drainage Report*										
6.1.6	*Environmental Permit Coordination*										
6.2	90% PS&E (Phase 2a)										
6.2.1	*90% Plans*										
6.2.2	*90% Technical Specifications*										
6.2.3	*90% Cost Estimate*										
6.2.4	*Draft Final SWCP*										
6.2.5	*Draft Final Drainage Report*										
6.2.6	*Environmental Permit Coordination*										
6.3	Final PS&E (Phase 2a)										
6.3.1	*Final Plans*										
6.3.2	*Final Technical Specifications*										
6.3.3	*Final Cost Estimate*										
6.3.4	*Final SWCP*										
6.3.5	*Final Drainage Report*										
6.3.6	*Environmental Permit Coordination*										
6.4	Bidding Support (Phase 2a)										
6.5	Construction Support (Phase 2a)										
7	**Phase 2b Package**										
7.1	60% PS&E (Phase 2b)										
7.1.1	*60% Plans*										
7.1.2	*60% Technical Specifications*										
7.1.3	*60% Cost Estimate*										
7.1.4	*Draft SWCP*										
7.1.5	*Draft Drainage Report*										
7.1.6	*Environmental Permit Coordination*										
7.2	90% PS&E (Phase 2b)										
7.2.1	*90% Plans*										
7.2.2	*90% Technical Specifications*										
7.2.3	*90% Cost Estimate*										
7.2.4	*Draft Final SWCP*										
7.2.5	*Draft Final Drainage Report*										
7.2.6	*Environmental Permit Coordination*										
7.3	Final PS&E (Phase 2b)										
7.3.1	*Final Plans*										
7.3.2	*Final Technical Specifications*										
7.3.3	*Final Cost Estimate*										
7.3.4	*Final SWCP*										
7.3.5	*Final Drainage Report*										
7.3.6	*Environmental Permit Coordination*										
7.4	Bidding Support (Phase 2b)										
7.5	Construction Support (Phase 2b)										
8	**Public Information and Outreach**										
	SUBTOTALS				**40**				**40**	**$6,000**	**$6,000**
	TOTALS				**$6,000**				**40**	**$6,000**	**$6,000**

Wallace Group Team Resource Estimate for the

Boronda Road Congestion Relief Phase 2 Project

KIMLEY-HORN

PHASE/ TASK	TASK DESCRIPTION	Analyst II	Analyst III Jessica Tai	Professional I Pedro Cortes	Professional II Jared Calise	Sr. Professional I Molly Tremblay	Sr. Professional II Hunter Young	Sr. Professional III Sean Houck	Sr. Professional IV Frederik Venter	Technical Support	Project Support	Misc. Direct Costs	TOTAL LABOR HOURS		TOTAL
	RATE	HRS $175	HRS $185.00	HRS $220	HRS $250	HRS $285	HRS $355	HRS $395	HRS $445	HRS $115	HRS $140		HRS/ COST	LABOR $	COST $
1	**Project Management and Meetings**														
1.1	Project Management					100		30					130	$40,350	$40,350
1.2	Meetings					80		40				$8,560	120	$38,600	$47,160
1.3	QA/QC and Constructability Analysis							80	20				100	$40,500	$40,500
1.4	Grant Support (Optional Task)			40		80							120	$31,600	$31,600
2	**Preliminary Engineering Studies**														
2.1	Concept Refinement & Traffic Operations														
2.1.1	*Traffic Volume Forecasts*				20	8		6	6				40	$12,320	$12,320
2.1.2	*Intersection Operations*				30	12		8	4				54	$15,860	$15,860
2.1.3	*Concept Layout Refinements*		40		40	12		12					104	$25,560	$25,560
2.1.4	*Design Basis Memorandum*				10	6		6					22	$6,580	$6,580
2.1.5	*Pedestrian Crossing Assessment*				15	12		8	2				37	$11,220	$11,220
2.1.6	*Data Collection*			20		5				20		$3,770	45	$8,125	$11,895
2.1.7	*Traffic Simulation*			100		43		20	6				169	$44,825	$44,825
2.2	Geometric Approval Drawings		120	60	125	10		122					437	$117,690	$117,690
2.3	Preliminary Hydraulic Reports														
2.4	Geotechnical Recommendations														
2.5	Landscape Concept														
2.6	Preliminary Photometric Analysis	40		24		2							66	$12,850	$12,850
2.7	Utility A Letters														
2.8	Environmental Commitment Record														
3.2	**Right of Way Engineering**														
3.3	Record of Survey														
4	Utility Coordination														
4.1	Potholing														
4.2	**Utility Notice to Owners ("B" Letters)**														
6	**Phase 2a Package**														
6.1	60% PS&E (Phase 2a)														
6.1.1	*60% Plans*	80	80	60	40	40	20	40		20	15		395	$90,700	$90,700
6.1.2	*60% Technical Specifications*			10			6	6					22	$6,700	$6,700
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*		40	30		10	4	4					88	$19,850	$19,850
6.1.4	*Draft SWCP*														
6.1.5	*Draft Drainage Report*														
6.1.6	*Environmental Permit Coordination*														
6.2	90% PS&E (Phase 2a)														
6.2.1	*90% Plans*	60	60	40	30	30	10	20		20	15		285	$62,300	$62,300
6.2.2	*90% Technical Specifications*			5			4	4					13	$4,100	$4,100
6.2.3	*90% Cost Estimate*		15	10		4	2	2					33	$7,615	$7,615
6.2.4	*Draft Final SWCP*														
6.2.5	*Draft Final Drainage Report*														
6.2.6	*Environmental Permit Coordination*														
6.3	Final PS&E (Phase 2a)														
6.3.1	*Final Plans*	40	40	20	10	15	6	6		20	10		167	$33,775	$33,775
6.3.2	*Final Technical Specifications*			5			4	4					13	$4,100	$4,100
6.3.3	*Final Cost Estimate*		10	6		4	2	2					24	$5,810	$5,810
6.3.4	*Final SWCP*														
6.3.5	*Final Drainage Report*														
6.3.6	*Environmental Permit Coordination*														
6.4	Bidding Support (Phase 2a)					6		4					10	$3,290	$3,290
6.5	Construction Support (Phase 2a)					40	20	40					100	$34,300	$34,300
7	**Phase 2b Package**														
7.1	60% PS&E (Phase 2b)														
7.1.1	*60% Plans*	300	350	250	350	170	80	66	20				1586	$371,570	$371,570
7.1.2	*60% Technical Specifications*			30			10	6					46	$12,520	$12,520
7.1.3	*60% Cost Estimate*		80	40		20	10	4					154	$34,430	$34,430
7.1.4	*Draft SWCP*														
7.1.5	*Draft Drainage Report*														
7.1.6	*Environmental Permit Coordination*														
7.2	90% PS&E (Phase 2b)														
7.2.1	*90% Plans*	250	200	180	140	80	40	48					938	$211,310	$211,310
7.2.2	*90% Technical Specifications*			20			5						25	$6,175	$6,175
7.2.3	*90% Cost Estimate*		40	20		10	5						75	$16,425	$16,425
7.2.4	*Draft Final SWCP*														
7.2.5	*Draft Final Drainage Report*														
7.2.6	*Environmental Permit Coordination*														
7.3	Final PS&E (Phase 2b)														
7.3.1	*Final Plans*	120	100	80	80	44	20	24					468	$106,220	$106,220
7.3.2	*Final Technical Specifications*			10			5						15	$3,975	$3,975
7.3.3	*Final Cost Estimate*		20	10			5						35	$7,675	$7,675
7.3.4	*Final SWCP*														
7.3.5	*Final Drainage Report*														
7.3.6	*Environmental Permit Coordination*														
7.4	Bidding Support (Phase 2b)					20		10					30	$9,650	$9,650
7.5	Construction Support (Phase 2b)				60	80	20	40					200	$60,700	$60,700
8	**Public Information and Outreach**		40	80		120		20		40		$4,680	300	$71,700	$76,380
	SUBTOTALS	**890**	**1235**	**1150**	**950**	**1063**	**278**	**682**	**58**	**120**	**40**	**$17,010**	**6466**	**$1,590,970**	**$1,607,980**
	TOTALS	**$155,750**	**$228,475**	**$253,000**	**$237,500**	**$302,955**	**$98,690**	**$269,390**	**$25,810**	**$13,800**	**$5,600**	**$17,010**	**6466**	**$1,590,970**	**$1,607,980**

Wallace Group Team Resource Estimate for the

Boronda Road Congestion Relief Phase 2 Project EARTH SYSTEMS PACIFIC

PHASE/ TASK	TASK DESCRIPTION	Staff Engineer	Senior Engineering Geologist	Principal Engineer	Misc. Direct Costs	TOTAL LABOR HOURS		TOTAL
	RATE	HRS $160.00	HRS $220.00	HRS $280.00		HRS/ COST	LABOR $	COST $
1	**Project Management and Meetings**							
1.1	Project Management							
1.2	Meetings							
2.1	**Concept Refinement & Traffic Operations**							
2.1.1	Traffic Volume Forecasts							
2.1.2	Intersection Operations							
2.1.3	Concept Layout Refinements							
2.1.4	Design Basis Memorandum							
2.1.5	Pedestrian Crossing Assessment							
2.1.6	Data Collection							
2.1.7	Traffic Simulation							
2.2	Geometric Approval Drawings							
2.3	**Preliminary Hydraulic Reports**							
2.4	Geotechnical Recommendations	84.5	19	8	$19,960	111.5	$19,940	$39,900
2.5	Landscape Concept							
2.6	Preliminary Photometric Analysis							
2.7	Utility A Letters							
2.8	Environmental Commitment Record							
3	Surveys and Mapping							
3.1	Survey Densification							
3.2	**Right of Way Engineering**							
3.3	Record of Survey							
4	**Utility Coordination**							
4.1	Potholing	10				10	$1,600	$1,600
4.2	**Utility Notice to Owners ("B" Letters)**							
4.3	Utility Agreements ("C" Letters)							
5	Right of Way Determination							
6	**Phase 2a Package**							
6.1	60% PS&E (Phase 2a)							
6.1.1	*60% Plans*							
6.1.2	*60% Technical Specifications*							
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*							
6.1.4	*Draft SWCP*							
6.1.5	*Draft Drainage Report*							
6.1.6	*Environmental Permit Coordination*							
6.2	90% PS&E (Phase 2a)							
6.2.1	*90% Plans*							
6.2.2	*90% Technical Specifications*							
6.2.3	*90% Cost Estimate*							
6.2.4	*Draft Final SWCP*							
6.2.5	*Draft Final Drainage Report*							
6.2.6	*Environmental Permit Coordination*							
6.3	Final PS&E (Phase 2a)							
6.3.1	*Final Plans*							
6.3.2	*Final Technical Specifications*							
6.3.3	*Final Cost Estimate*							
6.3.4	*Final SWCP*							
6.3.5	*Final Drainage Report*							
6.3.6	*Environmental Permit Coordination*							
6.4	Bidding Support (Phase 2a)							
6.5	Construction Support (Phase 2a)							
7	**Phase 2b Package**							
7.1	60% PS&E (Phase 2b)							
7.1.1	*60% Plans*							
7.1.2	*60% Technical Specifications*							
7.1.3	*60% Cost Estimate*							
7.1.4	*Draft SWCP*							
7.1.5	*Draft Drainage Report*							
7.1.6	*Environmental Permit Coordination*							
7.2	90% PS&E (Phase 2b)							
7.2.1	*90% Plans*							
7.2.2	*90% Technical Specifications*							
7.2.3	*90% Cost Estimate*							
7.2.4	*Draft Final SWCP*							
7.2.5	*Draft Final Drainage Report*							
7.2.6	*Environmental Permit Coordination*							
7.3	Final PS&E (Phase 2b)							
7.3.1	*Final Plans*							
7.3.2	*Final Technical Specifications*							
7.3.3	*Final Cost Estimate*							
7.3.4	*Final SWCP*							
7.3.5	*Final Drainage Report*							
7.3.6	*Environmental Permit Coordination*							
7.4	Bidding Support (Phase 2b)							
7.5	Construction Support (Phase 2b)							
8	**Public Information and Outreach**							
	SUBTOTALS	**94.5**	**19**	**8**	**$19,960**	**121.5**	**$21,540**	**$41,500**
	TOTALS	**$15,120**	**$4,180**	**$2,240**	**$19,960**	**121.5**	**$21,540**	**$41,500**

Wallace Group Team Resource Estimate for the

Boronda Road Congestion Relief Phase 2 Project

EMC PLANNING

PHASE/ TASK	TASK DESCRIPTION	EMC Planning Group Senior Principal (Staedler)	EMC Planning Group Principal Biologist (Walther)	EMC Planning Group Associate Biologist (Ashbach, Ghadiri, Laursen)			Misc. Direct Costs	TOTAL LABOR HOURS		TOTAL
		HRS	HRS	HRS	HRS	HRS		HRS/ COST	LABOR $	COST $
	RATE	$295.00	$245.00	$185.00						
1	**Project Management and Meetings**									
1.1	Project Management									
1.2	Meetings									
1.3	QA/QC and Constructability Analysis									
1.4	Grant Support (Optional Task)									
2.1	**Concept Refinement & Traffic Operations**									
2.1.1	Traffic Volume Forecasts									
2.1.2	Intersection Operations									
2.1.3	Concept Layout Refinements									
2.1.4	Design Basis Memorandum									
2.1.5	Pedestrian Crossing Assessment									
2.1.6	Data Collection									
2.1.7	Traffic Simulation									
2.2	Geometric Approval Drawings									
2.3	Preliminary Hydraulic Reports									
2.4	Geotechnical Recommendations									
2.5	Landscape Concept									
2.6	Preliminary Photometric Analysis									
2.7	Utility A Letters									
2.8	Environmental Commitment Record	2	2	4				8	$1,820	$1,820
3.2	**Right of Way Engineering**									
3.3	Record of Survey									
4	Utility Coordination									
4.1	Potholing									
4.2	**Utility Notice to Owners ("B" Letters)**									
6	**Phase 2a Package**									
6.1	60% PS&E (Phase 2a)									
6.1.1	*60% Plans*									
6.1.2	*60% Technical Specifications*									
6.1.3	*60% Engineer's Opinion of Probable Construction Costs (Estimate)*									
6.1.4	*Draft SWCP*									
6.1.5	*Draft Drainage Report*									
6.1.6	*Environmental Permit Coordination*		8	4				12	$2,700	$2,700
6.2	90% PS&E (Phase 2a)									
6.2.1	*90% Plans*									
6.2.2	*90% Technical Specifications*									
6.2.3	*90% Cost Estimate*									
6.2.4	*Draft Final SWCP*									
6.2.5	*Draft Final Drainage Report*									
6.2.6	*Environmental Permit Coordination*		4	2				6	$1,350	$1,350
6.3	Final PS&E (Phase 2a)									
6.3.1	*Final Plans*									
6.3.2	*Final Technical Specifications*									
6.3.3	*Final Cost Estimate*									
6.3.4	*Final SWCP*									
6.3.5	*Final Drainage Report*									
6.3.6	*Environmental Permit Coordination*		2	1				3	$675	$675
6.4	Bidding Support (Phase 2a)		4					4	$980	$980
6.5	Construction Support (Phase 2a)		4					4	$980	$980
7	**Phase 2b Package**									
7.1	60% PS&E (Phase 2b)									
7.1.1	*60% Plans*									
7.1.2	*60% Technical Specifications*									
7.1.3	*60% Cost Estimate*									
7.1.4	*Draft SWCP*									
7.1.5	*Draft Drainage Report*									
7.1.6	*Environmental Permit Coordination*		8	4				12	$2,700	$2,700
7.2	90% PS&E (Phase 2b)									
7.2.1	*90% Plans*									
7.2.2	*90% Technical Specifications*									
7.2.3	*90% Cost Estimate*									
7.2.4	*Draft Final SWCP*									
7.2.5	*Draft Final Drainage Report*									
7.2.6	*Environmental Permit Coordination*		4	2				6	$1,350	$1,350
7.3	Final PS&E (Phase 2b)									
7.3.1	*Final Plans*									
7.3.2	*Final Technical Specifications*									
7.3.3	*Final Cost Estimate*									
7.3.4	*Final SWCP*									
7.3.5	*Final Drainage Report*									
7.3.6	*Environmental Permit Coordination*		2	1				3	$675	$675
7.4	Bidding Support (Phase 2b)		4					4	$980	$980
7.5	Construction Support (Phase 2b)		4					4	$980	$980
8	**Public Information and Outreach**									
	SUBTOTALS	**2**	**46**	**18**				**66**	**$15,190**	**$15,190**
	TOTALS	**$590**	**$11,270**	**$3,330**				**66**	**$15,190**	**$15,190**