

TASK ORDER NO. 1  
UNDER

AGREEMENT FOR PROFESSIONAL CONSULTANT SERVICES, RFQ 694-18  
SERVICE GROUP CATEGORY 4 – ENVIRONMENTAL SERVICES

DATED JANUARY 23, 2019

BETWEEN

THE CITY OF LANCASTER, "OWNER"  
AND  
MICHAEL BAKER INTERNATIONAL INC. "CONSULTANT"

PROJECT TITLE: Amargosa Creek Recreation Trail Project

DESCRIPTION OF SERVICES: Environmental Services

SCOPE OF WORK: Per Attached Exhibit "1", Scope of Services

PERIOD OF SERVICES: Per Attached Exhibit "2", Schedule

COMPENSATION FOR SERVICES: Per Fee Schedule – \$432,295.00

"OWNER"

CITY OF LANCASTER

By \_\_\_\_\_  
Jason Caudle  
City Manager

Date \_\_\_\_\_

"CONSULTANT"

MICHAEL BAKER INTERNATIONAL INC.

By \_\_\_\_\_  
Tanya Bilezikjian  
Office Executive, Vice President

Date \_\_\_\_\_

## EXHIBIT “1”

### SCOPE OF SERVICES

The work to be performed under this task order shall include:

- A. Task Order 1 – Scope of Services

August 30, 2022

Ms. Nicole Jones  
Analyst – Public Works  
**CITY OF LANCASTER**  
44933 Fern Avenue  
Lancaster, California 93534

**Subject: Proposal to Prepare CEQA Clearance Documentation (IS/MND) for the City of Lancaster's Amargosa Recreation Trail Project**

Dear Ms. Jones:

Michael Baker International, Inc. (Michael Baker) is pleased to submit this proposal to the City of Lancaster (City) to prepare 30 percent design plans and environmental clearance documentation (Initial Study/Mitigated Negative Declaration [IS/MND]) under the California Environmental Quality Act (CEQA) for the Amargosa Recreation Trail Project. It is our understanding that the project would involve the construction of a two-mile protected bicycle and pedestrian recreation trail along Amargosa Creek, between West Avenue H and Avenue J. The project would provide safe active transportation, increased multimodal accessibility, and opportunities for art, culture, and recreation near a natural resource (Amargosa Creek) within the City.

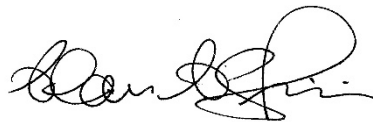
Michael Baker has an extensive background related to environmental review of similar projects and projects within the City of Lancaster. The designated team will be led by Ms. Jessica Ditto, serving as Project Manager, and Mr. Alan Ashimine, serving as Project Director for the project. Ms. Ditto is committed to a successful completion of this project by maintaining close communication with City staff and working quickly to resolve critical issues.

We appreciate your consideration of Michael Baker for the Amargosa Recreation Trail Project IS/MND and are available to begin the work program immediately. Please do not hesitate to contact me at 949.330.4183 or [Jessica.Ditto@mbakerintl.com](mailto:Jessica.Ditto@mbakerintl.com) if you have any questions or would like additional information.

Sincerely,



Jessica Ditto  
Associate/Project Manager



Alan Ashimine  
Environmental Sciences Manager



## PROJECT UNDERSTANDING

The proposed Amargosa Recreation Trail Project (project) site is located along the eastern bank of the Amargosa Creek, between West Avenue H to Avenue J, in the City of Lancaster, Los Angeles County, California. The Amargosa Creek is a natural water channel located east of and parallel to State Route 14 (SR-14). The site is currently designated by the General Plan and zoned as Open Space. Existing surrounding development generally includes commercial and residential development.

The City is proposing to construct a new approximately two-mile protected bicycle and pedestrian recreational trail on developed open space land east of Amargosa Creek. The new trail would include a 10-foot-wide asphalt bike path and a five-foot-wide concrete pedestrian walkway with a landscaped setback that would vary in width. A street crossing is proposed at Lancaster Boulevard and a bike and pedestrian bridge is proposed over Avenue I.

The City of Lancaster is requesting the preparation of preliminary design plans and CEQA clearance documentation (Initial Study) with supporting technical analyses. This scope of work assumes that the Initial Study results would indicate a Mitigated Negative Declaration is required. The overall work program will entail the preparation of 30 percent design plans, structural feasibility study for the Avenue I bridge, geotechnical explorations and report, and an Initial Study/Mitigated Negative Declaration consistent with the CEQA Guidelines and the local CEQA implementation procedures. In order to meet the City's CEQA requirements, Michael Baker proposes to prepare an Initial Study followed by a Mitigated Negative Declaration. Should a different level of documentation be required (i.e., an Environmental Impact Report), this can be accommodated under a separate scope and fee.

## SCOPE OF WORK

This scope of work assumes that Michael Baker will develop preliminary designs, structural feasibility study for the Avenue I bridge, and geotechnical explorations and report. Michael Baker will develop a preliminary engineering report summarizing the work described in this scope of work, which will document design considerations and decisions. No coordination or reviews with external agencies such as Caltrans, Los Angeles County Flood Control District, or the U.S. Army Corps of Engineers is included in this scope of work.

This scope of work also assumes that Michael Baker will draft an Initial Study with supporting analysis regarding Air Quality, Greenhouse Gas Emissions, Energy, Noise, Biological, Jurisdictional Waters, Cultural, Tribal Cultural, and Paleontological Resources. It is our understanding based on communication with City staff that the project would not impact the Amargosa Creek bed, banks, or any riparian vegetation along the creek and therefore, the US Army Corps of Engineers will not take jurisdiction. However, as an optional task, Michael Baker will provide regulatory permitting and habitat mitigation services, if needed. No additional technical analyses will be prepared by Michael Baker; however, if additional analyses are provided by the City (e.g., hydrology, water quality) Michael Baker can incorporate these results in the CEQA document.



## 1.0 PROJECT MANAGEMENT, MEETINGS, AND HEARINGS

### 1.1 *Kick-Off Meeting*

Michael Baker will prepare materials for and conduct a virtual project kick-off meeting, which will be conducted within two weeks of notice to proceed. Michael Baker will be responsible for preparing the meeting agenda, developing a list of data needs, and preparing meeting minutes. Minutes will be sent to the City within five business days of the kick-off meeting.

### 1.2 *Project Team Meetings*

Michael Baker will prepare materials for and facilitate up to three virtual project team meetings, which will be held at key decision points during Tasks 2.0 through 5.0.

### 1.3 *Public Hearings*

Michael Baker will represent the Project Team at public hearings and make presentations as necessary. For budgeting purposes, the following hearings have been identified:

- Up to two (2) public hearings (e.g., Planning Commission Hearing, City Council Hearing).

Should additional hearings be necessary beyond those identified above, services will be provided on a time and materials basis.

### 1.4 *Project Management / Coordination*

Michael Baker will conduct regular check in meetings with the City project manager to provide updates on the project progress, coordinate on project schedule and milestones, and discuss potential issues. We anticipate these meetings will occur monthly and will involve the City project manager and Michael Baker's technical leads. This task also includes time allocated for day to day project management and coordination of subconsultants and internal project team meetings.

## 2.0 INVESTIGATIONS AND RESEARCH

### 2.1 *Aerial Topographic Mapping*

Michael Baker will establish horizontal and vertical control at the site sufficient to support Aerial Topographic Mapping. Unless otherwise directed by the City, the basis of horizontal control will be California Coordinate System of 1983 (CCS 83), Zone 5, Epoch 2017.50. Coordinates will be expressed as ground values in terms of the U.S. survey foot. Coordinates will be based on published values. Vertical control will be provided in terms of the North American Vertical Datum of 1988 (NAVD 88), based locally upon CORS and geoid 18.

Michael Baker will prepare a comprehensive topographic survey to identify and plot existing conditions in the project vicinity.



The aerial topographical survey will include obtaining locations, elevations, and descriptions of:

- Major surface features that define the shape of the terrain, such as tops and toes of slopes, grade breaks, and natural ground.
- Spot elevations on hardscape features, concrete pads, and other hard surfaces.
- Roads, parking areas, major trails
- Facilities – outlines of buildings, sheds, barns, existing structures.
- Walls, fences and other barriers.
- Power poles, lights, and major signs.
- Above ground utilities including valves, pull-boxes, meters, and vaults within project area.

Topographic mapping will be provided for the entire area at a scale of 1" = 40' with one foot interval contours. The map will be prepared in 2018 Civil 3D DWG format using Michael Baker International CAD standards. Mapping will meet the requirements in "ASPRS Accuracy Standards for Large-Scale Maps," dated March 1990, with sufficient detail to support the assessment of the project site for plot plan design. Aerial mapping will include a DTM file and color orthophotography. This task contains scheduling the flight, a compilation of photogrammetry, and providing a quality control survey for verifying accuracy standards. The boundary determination or boundary mapping is not included in this scope of work.

## **2.2     *Records Research and Initial Field Review***

Michael Baker will complete the necessary research to gather and review available information such as record drawings, tract maps, assessor parcel maps, right-of-way maps, street centerline ties, and utility maps. Our team will complete a field review investigating any issues identified in the scope of work as well as those identified in the kickoff meeting. During this walk, our team will document any pertinent field conditions, utility appurtenances and photo document all locations.

## **2.3     *Utility Research and Coordination***

Early coordination with the utility owners within the project limits is critical to successful project delivery. Michael Baker will prepare Utility Request letters, requesting utility owners to send their facility maps and as-built plans. We will coordinate with each utility owner until all responses are received.

Michael Baker will maintain a utility contact matrix including the following:

- Copies of utility notices sent
- Copies of correspondence
- Dates utility notices were sent
- Dates utility responses were received
- Atlases/plans received

Once all plans have been received, Michael Baker will plot the utilities on the plans and probable conflicts will be noted. Due to the existing overhead utility lines across Avenue I and the proposed structure, early coordination will be required with the utility agencies to ensure they are comfortable with the designs and the project has met their requirements for distances from their facilities. Potholing is not included in this scope of work.



## **2.4 Research and Investigation**

Michael Baker will obtain and review available reference data for the project, including project information from City staff as well as planning and policy documentation from local, State, and federal agencies, and other agencies that may be affected by the project. This information, along with environmental data and information available from the City and other nearby jurisdictions, will become part of the environmental documentation's foundation and will be reviewed and incorporated into the analysis, as deemed appropriate. This task includes a visit to the project site and its surroundings, which will include a detailed photographic recording of on- and off-site conditions.

## **2.5 Draft Project Description**

A preliminary draft project description will be prepared that details the project location, environmental setting, proposed project characteristics, construction program, phasing, agreements, and permits and approvals that are required based on available information from the City. Exhibits depicting the regional and site vicinity, and conceptual site plans will also be included in this section. Michael Baker will submit the draft project description to the City for review and approval. We assume that no modifications to the project description will occur after approval by the City.

# **3.0 PRELIMINARY DESIGN**

## **3.1 Develop Alternatives/Concept Plans**

Michael Baker will develop design alternatives for the trail and crossing locations. We anticipate that the trail design between crossroads will generally be consistent with the description in the grant application, which consists of a 10 foot wide asphalt bike path and a 5 foot wide concrete pedestrian walkway with a varying-width landscaped setback.

The designs for the crossings of the local roads will be more complex because there will be more factors to consider such as providing safe and direct crossing locations for trail users, maintenance access, utility conflicts, right-of-way constraints, and at Avenue I the existing culverts will heavily constrain the proposed bridge design. As such, Michael Baker will develop up to three design alternatives at each of these crossing locations. At Avenue H and Avenue J, we will show different options for how the route will terminate and tie into the existing or planned infrastructure. At Avenue I and Lancaster Boulevard, we will develop various designs for the proposed bridge layout and for the at-grade crossing. We anticipate that the bridge and trail design at Avenue I will take the majority of the design effort and coordination due to the constraints in this location such as limited existing right-of-way and proximity of the existing culverts that cannot be impacted as part of this project (the one under Avenue I itself and the one east-west just north of Avenue I where the existing trail intersects Avenue I). Access for both maintenance vehicles and non-motorized users to the trail in this location will be a key design challenge given the constraints listed above. Our design team will consider cost saving measures for various project components and will study overall roadway cross sections on the crossroads to minimize project impacts and cost to maximize project benefits.

These concept plans will be graphical, easy to understand drawings that identify impacts to adjacent facilities and right-of-way. Plans will show the proposed trail alignment, crossing locations, maintenance



access locations, impacts to existing slopes on the channel, and other offsite improvements. The concept plans will be prepared in AutoCAD at 1"=40' scale and will be in accordance with City CAD standards. Typical sections will be included for the trail design cross section. Traffic analysis and landscaping design is not included in this scope of work.

### **3.2     *Design Workshops***

The design team will hold up to three design workshops with the City to discuss the concept plans. We will provide the City an overview of the designs and discuss the benefits and challenges of each alternative. These meetings will be workshop style to answer any City questions and update the designs after receiving City input.

### **3.3     *Prepare 30% Plans and Estimate***

Upon selection of the preferred alternative, Michael Baker will refine the designs and develop 30% plans for the City to carry the project forward into final design. Layouts will be prepared at 1"=40' scale and all drawings will follow City CAD standards. All designs will be in accordance with the latest City Standards, County of Los Angeles Trails Manual, National Association of City Transportation Officials (NACTO), Standard Plans and Specifications for Public Works Construction (the "Greenbook"), and Caltrans Highway Design Manual (HDM) Chapter 1000. We anticipate the 30% plans package to include the following sheets:

- Title Sheet with General Notes (1)
- Typical Sections (1)
- Layouts (including existing utilities and rough grading limits) (5)
- Profiles (if required) (3)
- Bridge General Plan (as discussed under Task 3.5) (1)
- Bridge Typical Section (as discussed under Task 3.5) (1)

Michael Baker will prepare quantity take-off calculations for the construction bid items based on the 30% designs. Michael Baker will use the latest project contract cost data and previous project data as a basis for establishing an itemized estimate of the construction cost. The total cost estimate will include mobilization and contingency.

No modifications to the existing drainage channel or walls are included in this scope of work. If it is determined that modifications are required for the designs, Michael Baker will discuss an additional scope and fee with the City.

### **3.4     *Preliminary Design Report***

Michael Baker will develop a preliminary engineering report summarizing the work completed in this stage. The report will include a discussion about the following items: existing facility; project description; alternative designs; utilities; lighting; landscaping and hardscaping; pavement recommendations; maintenance access; project schedule; project costs; and right-of-way (if required). The alternatives developed under Task 3.1 will be discussed in detail and the benefits and drawbacks of each alternative will be outlined.





Lighting design and analysis and landscaping design is not included in this scope of work; however, Michael Baker will make recommendations about these topics to be considered in Final Design. These recommendations will be based on industry standards for trail designs and will be summarized in the Preliminary Design Report.

### **3.5     *Structural Feasibility Study***

Michael Baker will identify feasible and economical structural scoping alternatives and solutions for the proposed pedestrian and cycle bridge over Avenue I. This includes developing alternatives for the bridge and structure approach, evaluating the impact and constraints of the proposed improvements, and establishing reliable cost estimates for planning purposes.

Due to the existing horizontal constraints along the pedestrian path leading up to Avenue I, and considering reasonable approach grades for pedestrian and bikes to elevate the trail to the bridge overcrossing, the physical approach to the bike and pedestrian bridge over Avenue I will be just as important as the selected overcrossing bridge type. The bike and pedestrian bridge types anticipated include a prefabricated steel truss, as well as Cast-In-Place / Post Tensioned (CIP/PS), and precast alternatives.

The bridge approach is anticipated to be constructed as relatively short precast or cast-in-place slab approaches on bent supports, or alternatively as earthen embankment supported by Caltrans Standard Plan Retaining Walls or Mechanically Stabilized Embankment (MSE) Walls. Michael Baker will prepare a Bridge and Structure Approach Feasibility Report for the bridge presenting up to two feasible structure types for the bridge and approaches, prepare approximate costs, while considering the bridge constraints and project requirements. Our structural engineers will visit the site to confirm and assess any construction constraints.

Our design team will determine the preliminary structure length, width, type, depth, foundation types, and identify important features and considerations including railing types, temporary rails, falsework, vertical and horizontal clearances, location and slopes of cuts and fills, slope paving, approach type, stage construction requirements, seismic, geotechnical, and scour topics. The structure types identified will consider design requirements from Caltrans criteria and AASHTO Load and Resistance Factor Design (LRFD) Bridge Design Specification (BDS).

Our structures and roadway teams will coordinate with each other and the geotechnical engineer on the bridge layout, maintenance considerations, and bridge foundation designs. The structural study will include an estimated cost summary for up to two bridge alternatives in accordance with guidelines set forth in Caltrans Memo to Designers 1-8 and Caltrans Office of Special Funded Projects (OSFP) Information and Procedures Guide 3-2.

The Structural Feasibility Report will present up to two feasible structure types for the bridge and the structure approaches. Michael Baker will present the findings of this report to the City at one of the project check in meetings. Michael Baker will discuss benefits and challenges of each of the alternative types to help the City select a preferred bridge design. Once the preferred bridge type is selected, we will prepare a general plan sheet and a typical section sheet for the bridge overcrossing including the structure approach.



The evaluation of existing structures and the existing culvert under Avenue I, is not included in this scope of work.

### **3.6      *Geotechnical Exploration and Report***

Michael Baker has teamed with Leighton Consulting, Inc. (Leighton) to perform geotechnical exploration and to provide a preliminary geotechnical report in support of the 30% Preliminary Designs and Structural Feasibility Study. The bulk of the geotechnical scope will be to provide sufficient geotechnical exploration to aid in preliminary and final design of the bridge and bridge approaches proposed across Avenue I. The bridge approaches are anticipated to be constructed as short bridge approaches on bent supports, or as earthen embankments supported by Caltrans Standard Plan Retaining Walls or Mechanically Stabilized Embankment (MSE) Walls.

Because the project is solely located within City-owned property, we have assumed that it will not be subject to Caltrans permitting or review requirements. However, Caltrans and AASHTO LRFD bridge design specification will form the basis of the bike and pedestrian bridge field exploration program and preliminary design evaluation.

The Michael Baker and Leighton Team have reviewed aerial imagery and performed a cursory review of available geotechnical reports near the project area, and specifically the proposed bridge location during the preparation of this proposal. Based on this information and our experience in the area, we anticipate that the site is underlain by near-surface clayey soils and coarser grained sands at depth. As such, we anticipate that the bridge will be supported at two abutments and the foundation system will consist of deep foundations. Our proposed geotechnical exploration program to evaluate these subsurface soils is to drill two borings at each side of Avenue I at the anticipated abutment and bridge approach locations to maximum depths of approximately 80 feet. The intent is to generate sufficient subsurface information in the area of Avenue I to support complete design of the bridge foundation elements from this preliminary design phase through final bridge design. Below is a summary of Leighton's scope of work:

- Review readily available geotechnical reports and regional geologic mapping relevant for this project site.
- Obtain a boring permit from the County of Los Angeles Department of Environmental Health in accordance with their requirements that a permit for any subsurface exploration that exceeds 10 feet in depth or where groundwater is expected. Given that two of the planned borings will each be to a depth of 80 feet, we will obtain a permit from the County for the work.
- Perform a geotechnical exploration program that will ultimately form the basis of the final bridge design. As required by law, we will coordinate with Underground Service Alert (USA) for underground utilities.
- Based on aerial imagery of the site, it appears that the majority of the proposed pedestrian and bike path is covered with asphalt paving adjacent to Amargosa Creek. Leighton will penetrate existing asphalt with an 8-inch-diameter hollow-stem-auger, then drill, log and sample four borings to a depth of 5 feet for pathways, two borings to a depth of 20 feet for bridge approaches and two borings to a depth of 80 feet for bridge abutments (or to shallower depths if practical refusal is encountered) below the existing asphalt surface. Soil samples from the borings will be obtained using a modified-California ring-lined drive sampler; recovered soil samples will be visually logged by members of Leighton's technical staff. Leighton will backfill the borings and patch with asphalt cold patch to match existing grade.



- Per County of Los Angeles permit requirements, the two 80-foot borings will be backfilled with bentonite and cuttings will be stored in 40-gallon drums. Thereafter, one composite sample will be tested for TPH-carbon chain, VOCs, and CAM-17 metals. Assuming that the soil test results indicate the soils are non-hazardous waste, disposal of the drums will be performed. The remaining borings will be backfilled with cuttings because they will be less than 10 feet in depth.
- Selected soil samples obtained from our borings will be tested at our geotechnical laboratory in general accordance with applicable ASTM standards. We expect that in-place moisture and density, maximum dry density, Atterberg limits, grain size analysis, direct-shear, R-value, expansion index, and corrosion tests will be performed.
- Prepare a preliminary geotechnical report to support the preliminary designs in accordance with the City of Lancaster's Engineering Design Guidelines, Policies, and Procedures manual. The report will present preliminary recommendations for asphalt and concrete paving, bridge foundations, approach structure foundations, and retaining wall foundations. The preliminary geotechnical report will comment on the suitability of Caltrans Standard Plan retaining walls for use in the project. Although this project is not subject to Caltrans review, the preliminary bridge design recommendations will be provided in accordance with Caltrans and AASHTO LRFD bridge design specifications. In accordance with Caltrans' Memo to Designers 3-1, Leighton will provide feasible pile types, diameters, and vertical capacities.
- Review one set of plans for the project.
- Respond to one set of review comments from the City on the geotechnical report.

This scope assumes that a traffic control plan for the explorations will not be required because the drilling activities will be located outside of the street right of way on the creek embankment.

## 4.0 TECHNICAL STUDIES

Following preliminary review of project-related information provided by the City, Michael Baker has determined that technical analysis of several key impact areas will be required as part of the formal CEQA document. The work program associated with these detailed technical studies is provided below.

### 4.1 Air Quality Analysis

Existing Conditions/Regulatory Framework. The project is located within the Mojave Desert Air Basin (MDAB), which is under the jurisdiction of the Antelope Valley Air Quality Management District (AVAQMD). Baseline meteorological and air quality data developed through the California Air Resources Board (CARB) will be utilized for the description of existing ambient air quality. Air quality data from the nearest air quality monitoring station will be included to help highlight existing air quality local to the project area. The existing conditions will also describe and address the requirements set forth by the AVAQMD's *Federal 8-Hour Ozone Attainment Plan*. The analysis will be conducted in compliance with the AVAQMD *CEQA Guidelines*.

Short-term Construction and Long-Term Operational Emissions. Construction emissions will be quantified with the California Emissions Estimator Model version 2020.4.0 (CalEEMod). A general description of the major phases of construction and their timing will be required. The air pollutant emissions during construction will be compared to the AVAQMD Regional Thresholds of Significance. Naturally occurring



asbestos impacts will also be qualitatively discussed. As the project would not significantly increase capacity or volumes of traffic in the area, operational emissions will be qualitatively evaluated.

*Air Emissions Health Impacts.* As a result of the California Supreme Court decision for *Sierra Club vs. County of Fresno (Friant Ranch L.P.)*, the resultant human health impacts from the project's short-term construction and long-term operational air emissions will be analyzed.

*Valley Fever.* Valley Fever, or *coccidioidomycosis*, is a pulmonary infection of human and other mammals caused by inhalation of the spores of the fungus *Coccidioides immitis*, which grows in the soil of the southwestern United States. Michael Baker International will conduct a review of maps and other available information to determine whether the soils within the project site have the potential to contain Valley Fever spores.

#### **4.2 Biological Resources Assessment**

As part of the Biological Resources Assessment, Michael Baker will conduct a database search of the California Department of Fish and Wildlife's California Natural Diversity Database, the California Native Plant Society's Inventory of Rare and Endangered Plants of California, and the U.S. Fish and Wildlife Service's Information for Planning and Consultation project planning tool and Critical Habitat online mapper to identify any special-status<sup>1</sup> biological resources known to occur within the vicinity of the project site. Michael Baker will also review historic/current aerial photographs and topographic maps to assess existing site conditions and any ecological changes that have occurred within the project site. Following the literature review, Michael Baker will conduct a field survey of the proposed trail alignment to document baseline biological conditions. Notes will be taken on all plant and wildlife species observed on-site during the field survey and any burrows that may be occupied by wildlife. In addition, the location of any special-status plant and wildlife species and special-status vegetation communities will be mapped, if present on-site.

Michael Baker will then prepare a letter report summarizing the information and results obtained during the literature review and field survey; document all plant, wildlife, and vegetation communities observed; and determine the potential for any special-status species to occur on or within the vicinity of the project site. Site photographs taken during the field survey and Geographic Information Systems (GIS) figures will be included in the report to further enhance written text and visually identify specific biological information as it relates to the project site. In addition, the report will analyze potential project-related impacts to biological resources, and identify any additional biological surveys, mitigation measures, and/or regulatory approvals that may be required in order to ensure the analysis of biological resources is compliant with current standards under CEQA.

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<sup>1</sup> As used in this Scope of Work, "special-status" refers to those plant and wildlife species that are Federally or State listed, proposed, or candidates; plant species that have been designated a California Rare Plant Rank by the California Native Plant Society; and species that are designated as Fully Protected, Species of Special Concern, or Watch List species by the California Department of Fish and Wildlife, or those vegetation communities that are considered sensitive by the California Department of Fish and Wildlife and listed for analysis in the California Natural Diversity Database. Plant and wildlife species that do not fit one of these categories will not be analyzed for presence or discussed in any detail as part of this effort.



### 4.3 Jurisdictional Delineation

Based on a preliminary desktop review and correspondence with City staff, it is anticipated that the project would not impact State or federal jurisdictional resources. Michael Baker will conduct a site reconnaissance and perform a delineation of jurisdictional “waters of the United States” and “waters of the State” (including potential wetlands), located within and/or immediately adjacent to the boundaries of the project site, to confirm the assumption that the project would not impact State or federal jurisdictional resources. The jurisdictional delineation will result in:

- a determination of the U.S. Army Corps of Engineers (Corps) ordinary high-water mark (OHWM) and indicate the existence of any three-parameter wetlands on-site. The actual presence or absence of wetlands on-site will be verified through the determination of the presence of wetland hydrology, hydrophytic vegetation, and hydric soils pursuant to the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (Corps 2008);
- the CDFW’s jurisdiction identified on-site as streambed or to the outer drip line of riparian vegetation (if present) pursuant to Section 1600 *et seq.* of the California Fish and Game Code (CFGF); and
- a determination of the Regional Water Quality Control Board’s (Regional Board) jurisdiction based on the adopted *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (State Water Resources Control Board, 2019). In cases where federal jurisdiction is not present, the delineation will identify areas under the jurisdiction of the Regional Board pursuant to Section 13263 of the California Porter-Cologne Water Quality Control Act.

Prior to surveying the project site, Michael Baker will conduct a thorough literature review of relevant information to support the site reconnaissance and report preparation. Sources reviewed are anticipated to include topographic maps, USDA Web Soil Survey, historic/current aerial photographs, Federal Emergency Management Agency (FEMA) flood zone maps, USFWS National Wetlands Inventory Mapper, hydrology/climate information, and watershed data.

Once the site visit is complete and the project site’s baseline information is obtained, Michael Baker will prepare a letter report discussing on-site jurisdictional areas. Pursuant to agency requirements, the report will include the required exhibits to enhance the written text and identify jurisdictional areas. Drainage and/or wetland features will be overlain on the aerial photograph and the extent (acreage and linear feet) of each agency’s jurisdiction will be identified.

### 4.4 Cultural and Paleontological Resources Identification Memorandum

As part of the cultural resources identification study, Michael Baker will complete a cultural resources records search of the project site within a half mile search radius at the South Central Coastal Information Center, Sacred Lands File search with the Native American Heritage Commission, literature, historic map and aerial photo review, local historical society consultation, a pedestrian survey, and an archaeological sensitivity analysis of the project site. The intent of the above-mentioned cultural resources identification efforts is to determine if there are historical resources, as defined in Section 15064.5(a) of CEQA, within the project site.



As part of the paleontological identification efforts, Michael Baker will conduct a fossil locality search at the Natural History Museum of Los Angeles, literature and geologic map review, and a paleontological resources sensitivity analysis.

The findings of the cultural and paleontological resources identification efforts will be summarized in a combined memorandum. The memorandum will describe the project site, methods, and results of the cultural and paleontological resources identification efforts described above, and recommendations or mitigation measures, as applicable. This scope assumes that there are no archaeological or built environment resources present within the project site that will require recordation or evaluation for listing in the California Register of Historical Resources; however, further studies may be required if archaeological, historical or paleontological resources are identified. These services can be provided under a separate scope and fee.

#### **4.5 Greenhouse Gas Emissions Analysis**

CalEEMod will be used to quantify construction related GHG emissions while operational emissions will be qualitatively analyzed. The analysis will determine the project's impact by identifying if the project GHG emissions exceed the thresholds established by the AVAQMD. The GHG emissions analysis will also discuss the potential global climate change impacts, the effects of GHG emissions, and history of GHG emissions regulations in California. The analysis will review project consistency with applicable plans for the purpose of reducing GHG emissions, such as the California Air Resources Board *2017 Climate Change Scoping Plan* and Southern California Association of Governments *2020–2045 Regional Transportation Plan/Sustainable Communities Strategy* (2020–2045 RTP/SCS). Mitigation measures will be identified and incorporated, as necessary, to reduce potentially significant GHG impacts of the proposed project.

#### **4.6 Energy Analysis**

Michael Baker will analyze the energy implications of the project pursuant to Public Resources Code Section 21100(b)(3) and Appendix G and Appendix F of the CEQA Guidelines. These statutes and guidelines require a project to describe, where relevant, the wasteful, inefficient, and unnecessary consumption of energy caused by a project. In addition, Appendix G of the CEQA Guidelines requires a consistency analysis with state or local plans for renewable energy or energy efficiency. The analysis will quantify energy consumption associated with short-term construction activities.

#### **4.7 Noise Analysis**

Existing Conditions. The applicable noise and land use compatibility criteria for the project area will be reviewed and noise standards regulating noise impacts will be discussed for land uses on and adjacent to the project site.

Construction-Related Noise and Vibration. Noise impacts from construction sources will be analyzed based on the anticipated equipment to be used, length of a specific construction task, equipment power type (gasoline or diesel engine), horsepower, load factor, and percentage of time in use. The construction noise impacts will be evaluated in terms of maximum levels ( $L_{max}$ ) and hourly equivalent continuous noise levels ( $L_{eq}$ ) and the frequency of occurrence at adjacent sensitive locations. An analysis of vibration impacts will be based on the Federal Transit Administration's vibration analysis guidance. Analysis requirements will





be based on the sensitivity of the area, anticipated construction activities, and Noise Ordinance specifications.

Operational Noise Sources. As the project would not increase capacity or volumes of traffic in the area, operational noise will be qualitatively evaluated.

#### **4.8 Assembly Bill 52 Consultation Assistance**

Michael Baker will assist the City with meeting Native American consultation requirements pursuant to Assembly Bill 52 (AB-52). In coordination with the City, Michael Baker will prepare the draft consultation letters to tribes that have requested AB-52 notification. However, because consultation is required to be government-to-government, pursuant to State law, Michael Baker assumes that the City will send the consultation letters, complete the AB-52 consultation, and provide the consultation log with supporting documentation (ex. letters, emails, phone conversation summaries) for inclusion in the environmental document. This scope does not include attendance at consultation meetings or additional consultation.

### **5.0 INITIAL STUDY / MITIGATED NEGATIVE DECLARATION**

#### **5.1 Administrative Draft Initial Study**

Michael Baker will prepare an Initial Study in accordance with the CEQA Guidelines. The Initial Study will include detailed explanations of all checklist determinations and discussions of potential environmental impacts. The analysis shall be in accordance with Public Resources Code Section 21080(c) and CEQA Guidelines Section 15070. This section will denote the appropriate CEQA action based upon the Environmental Checklist/Environmental Analysis. The Initial Study report will be presented as follows:

##### **5.1.1 Introduction**

The Introduction will cite the provisions of CEQA, the CEQA Guidelines, and the City of Lancaster CEQA Implementation procedures for which the proposed project is subject. This section will identify the purpose of the study and statutory authority as well document scoping procedures, summary of the Initial Study format, listing of responsible and trustee agencies, and documentation incorporated by reference.

##### **5.1.2 Project Description**

The draft project description prepared under Task 2.5 will be finalized for inclusion in the Project Description section of the Initial Study.

##### **5.1.3 Initial Study Checklist**

This section will include a summary page of project information followed by an explanation of factors considered for potential impacts. The Initial Study Checklist will be presented in a four-column layout, identifying: (1) potentially significant impacts, (2) potentially significant impacts unless mitigated, (3) less than significant impacts, and (4) issues resulting in no impacts.



#### **5.1.4 Environmental Analysis**

Michael Baker will evaluate the necessary information with respect to the existing conditions, the potential adverse effects of project implementation (both individual and cumulative), consideration of existing local, State and federal regulations, and measures to mitigate resulting adverse effects. Environmental issues raised by City staff, agencies and the community, and any other relevant and valid informative sources will also be evaluated. The analyses will be based upon all available data, results from additional research, and an assessment of existing technical data.

The Environmental Analysis section will thoroughly discuss the existing conditions for each environmental issue area and identify short-term and long-term impacts associated with the project. The impact analysis will be in a consistent order of environmental factors, as presented in Appendix G of the CEQA Guidelines (Aesthetics, Agriculture and Forestry Resources, Air Quality, etc.). The thresholds for significance shall be identified for every environmental issue. A brief discussion will be provided for all environmental issues determined to be No Impact or Less Than Significant Impact, explaining why these determinations were made and that no further analysis is warranted. The Impact Subsection will provide a detailed analysis of each issue, in the same order as these issues are provided in the Initial Study.

#### **A. AESTHETICS/LIGHT AND GLARE**

This section will characterize the existing aesthetic environment and visual resources for the site, including a discussion of views within the site and views from surrounding areas. The analysis will also consider the potential for the project to conflict with policies/regulations pertaining to visual resources and the introduction of new sources of light or glare.

#### **B. AGRICULTURE AND FORESTRY RESOURCES**

The project area is not designated for agricultural production or forest resources; thus, the Initial Study will confirm that there is no effect on agricultural and forest resources.

#### **C. AIR QUALITY**

Potential short-term construction and long-term operational impacts will be analyzed. Emissions will be quantified using the latest version of CalEEMod and compared to AVAQM thresholds of significance; refer to [Task 4.1](#), above.

#### **D. BIOLOGICAL RESOURCES**

This section will incorporate the conclusions of the Biological Resources Assessment and Jurisdictional Delineation prepared by Michael Baker for the project; refer to [Tasks 4.2](#) and [4.3](#), above.

#### **E. CULTURAL RESOURCES**

This section will incorporate the conclusions of the Cultural Resources Identification Memorandum prepared by Michael Baker for the project; refer to [Task 4.4](#), above.





## F. ENERGY

Refer to Task 4.6, above. Short-term construction and long-term operational impacts regarding energy resources and consumption will be analyzed in this section.

## G. GEOLOGY AND SOILS

This section will incorporate the conclusions of the Preliminary Geotechnical Report prepared by Leighton for the project; refer to Task 3.6, above. This section will also summarize the findings of the Paleontological Resources Identification Memorandum prepared by Michael Baker for the project; refer to Task 4.4, above.

## H. GREENHOUSE GAS EMISSIONS

Refer to Task 4.5, above. Project short-term construction and long-term operational greenhouse gas emissions will be estimated using CalEEMod and compared to AVAQMD thresholds of significance.

## I. HAZARDS AND HAZARDOUS MATERIALS

Based on the General Plan, General Plan EIR, General Plan MEA, and available online resources, a summary of existing regulatory conditions per the State Cortese Database Listing and hazardous materials conditions within the City will be provided. Michael Baker will utilize the above referenced research/documentation to analyze potential project-related impacts, as they pertain to hazards and hazardous materials per the CEQA thresholds of significance. Potential impacts associated with routine handling/storage/transport of hazardous materials, as well as potential accidental conditions during construction and operations involving hazardous materials will be analyzed. Project emergency access will also be considered.

## J. HYDROLOGY AND WATER QUALITY

This analysis will describe existing and proposed hydrology and water quality conditions. Michael Baker will utilize available existing information from the General Plan, General Plan EIR, and General Plan MEA to support the analysis within this section. Hydrology and water quality information provided in local reference documents will also be utilized to identify hydrological or water quality concerns. The potential for the project to degrade water quality, interfere with groundwater recharge, or expose people to water related hazards will be identified. Potential for the proposed project to violate water quality standards or waste discharge requirements will also be analyzed. Mitigation measures will be identified and incorporated, as necessary, to reduce the project's potentially significant hydrology and water quality impacts.

## K. LAND USE AND PLANNING

The site is currently designated by the General Plan as Open Space. No new land uses are proposed as part of the project. The project would provide a benefit to the City by providing safe multimodal access to local residential communities, businesses, cultural centers, schools, healthcare facilities, and transit stops. Thus, no impacts related to physically dividing an established community would occur. Nevertheless, the proposed project will be analyzed to evaluate consistency with applicable land use plans



and policies, including the Southern California Association of Governments' 2020-2045 RTP/SCS, General Plan, and Municipal Code.

## L. MINERAL RESOURCES

The Initial Study will note that there is no effect of the project upon mineral resources.

## M. NOISE

Refer to Task 4.7, above. Short-term construction analysis will be based on the sensitivity of the area, specific construction activities, and Noise Ordinance specifications. Operational noise will be minimal as the project would not increase capacity or volumes of traffic in the area. The project would provide new active transportation opportunities in the City.

## N. POPULATION AND HOUSING

Construction of the Amargosa Trail would not directly or indirectly result in substantial population growth or displace existing residents or residences. As such, the proposed project is not anticipated to have substantial adverse effects pertaining to population and housing. These findings will be documented in the IS/MND.

## O. PUBLIC SERVICES

Michael Baker will describe existing conditions related to fire, police, parks, and recreation and describe potential project impacts. The discussion will focus on the potential alteration of existing facilities, extension or expansion of new facilities, and the increased demand on services based on the proposed use.

## P. RECREATION

The Initial Study will analyze the potential for increased use of or substantial degradation of existing local and regional parks. As a recreational trail, the project is anticipated to result in beneficial impacts in this regard. The Initial Study will also evaluate potential impacts on construction or expansion of recreational facilities based on the proposed land use.

## Q. TRANSPORTATION

The Transportation section will analyze the potential for project implementation to conflict with applicable transportation plans and policies, including transit, roadway, bicycle, and pedestrian facilities. The intent of the project is to construct a new Class 1 multi-use bicycle and pedestrian trail that serves non-motorized travel within the City and thus, it is anticipated that project implementation would not conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b). Potential impacts related to geometric design feature hazards and emergency access will also be considered.

## R. TRIBAL CULTURAL RESOURCES

Refer to Task 4.8, above. The City, along with Michael Baker, will initiate Native American consultation in accordance with AB-52 and contact the NAHC. This section will incorporate the findings of the Cultural



Resources Identification Memorandum and summarize the conclusions of the Native American consultation, which will be provided by the City.

## S. UTILITIES AND SERVICE SYSTEMS

Refer to Task 2.3, above. Michael Baker will contact potentially affected agencies to confirm relevant existing conditions, project impacts, and recommended mitigation measures, as necessary. The ability of existing infrastructure to support development will be confirmed in terms of increased demand/generation of utilities, including water, wastewater, and solid waste. The discussion will focus on the potential alteration of existing facilities, extension, or expansion of new facilities and the increased demand on services based on the proposed project.

## T. WILDFIRE

The California Department of Forestry and Fire Protection does not identify any areas within the City as Very High Fire Hazard Severity Zones. As such, Michael Baker will document these findings in the IS/MND.

## U. MANDATORY FINDINGS OF SIGNIFICANCE

This section will focus on cumulative project effects and considerations.

### **5.1.5 Initial Study Determination**

The determination page will conclude the appropriate action (expected to be adoption of a Mitigated Negative Declaration [MND]) based upon the environmental analysis.

### **5.1.6 Graphic Exhibits**

The Initial Study will include a maximum of eight (8) exhibits to enhance the written text and clarify the proposed project environmental impacts. Michael Baker will use state-of-the-art computer design equipment and techniques to create professional quality, black and white or full color exhibits, dividers, and covers for the environmental document and Appendices.

### **5.2 Screencheck Draft IS/MND**

Michael Baker will respond to one complete consolidated set of City comments on the Administrative Draft Initial Study. This task assumes that no substantive changes to the Project Description will be raised. Michael Baker will provide the Screencheck Draft Initial Study in track changes to assist with City review of the document.

### **5.3 Public Review Draft IS/MND**

Michael Baker will respond to one complete consolidated set of comments from the City on the Screencheck Draft Initial Study. Similar to the Screencheck Draft, Michael Baker will provide a “proofcheck” Public Review Draft Initial Study in track changes to assist with final check of the document.



### **5.3.1 Mitigated Negative Declaration**

Michael Baker will prepare the MND for City review. This will be attached to the Initial Study to fully explain the project and its effects. The Public Review Draft IS/MND would be subject to a State-mandated 30-day public review period.

This task assumes the City will be responsible for the preparation, distribution, and posting of the Notice of Intent (NOI) for the IS/MND.

## **5.4 Final IS/MND**

### **5.4.1 Responses to comments and Errata**

Michael Baker will respond to all written comments received during the 30-day public review period. Michael Baker will prepare thorough, reasoned, and sensitive responses to relevant environmental issues. The Administrative Draft Responses to Comments will be prepared for review by City staff. Michael Baker will prepare a Screencheck Draft Responses to Comments in response to City comments for a second round of City review. This scope assumes 10 comment letters of normal detail (two to three pages in length). Comments in excess of these assumptions will be considered outside of this scope of work and cost estimate. This scope assumes no new technical analyses or field work are required to respond to comments.

If necessary, Michael Baker will prepare an Errata section as part of the Final IS/MND for City review and approval. The Errata will identify any revised text in strikethrough and underline, as necessary, to address comments received on the Public Review Draft IS/MND. Two rounds of review of the Errata (administrative and screencheck versions) will be prepared for City review and approval.

The Final IS/MND will be comprised of the Responses to Comments, Errata, and Mitigation Monitoring and Reporting Program (see [Task 5.4.3](#) below).

### **5.4.2 Mitigation Monitoring and Reporting Program**

Pursuant to Public Resources Code Section 21081.6 (AB 32180), Michael Baker will prepare an Administrative Draft Mitigation Monitoring and Reporting Program (MMRP) to provide a basis for monitoring such measures during and upon project implementation. The MMRP will include the list of Mitigation Measures (in order under the appropriate topic), the Monitoring Milestone (at what agency/department responsible for verifying implementation of the measure), Method of Verification (documentation, field checks, etc.), and a verification section for the initials of the verifying individual date of verification, and pertinent remarks. Two rounds of review of the MMRP (administrative and screencheck versions) will be prepared for City review and approval.

### **5.4.3 Completion of Final IS/MND**

The Final IS/MND will be comprised of the Responses to Comments, Errata, and MMRP. As stated, Michael Baker will respond to one complete consolidated set of City comments on the Administrative Final IS/MND and provide a Screencheck Final IS/MND with all changes highlighted to assist the final check of the document.



This task assumes the City will be responsible for the distribution of the Final IS/MND to all commenting agencies as well as the preparation and posting of the Notice of Determination (NOD) within five days of IS/MND adoption. This scope of work excludes any applicable CEQA filing fees required by CDFW.

## OPTIONAL TASKS

If the Jurisdictional Delineation ([Task 4.3](#)) identifies impacts to State or federal jurisdictional resources as a result of project implementation, then [Tasks 6.0](#) and [7.0](#) would be required.

### 6.0 REGULATORY PERMITTING

#### 6.1 *U.S. Army Corps of Engineers Approved Jurisdictional Determination*

Based on a preliminary review of the project site and nearby Clean Water Act (CWA) Approved Jurisdictional Determinations (AJD), Amargosa Creek would not be subject to regulation under Section 404 of the CWA and the City would not be required to obtain a permit from the Corps. Therefore, an AJD is required to receive formal concurrence from the U.S. Army Corps of Engineers (Corps). This task includes the preparation of a jurisdictional determination (Corps concurrence) based on the Delineation of Jurisdictional Waters Letter Report for the subject project. The determination is the Corps' formal approval, which locks in jurisdictional and/or non-jurisdictional findings for up to five (5) years. This is a mandatory task to confirm that no Corps permit is required prior to construction.

#### 6.2 *Regional Water Quality Control Board Waste Discharge Requirements*

Michael Baker will prepare and submit a Waste Discharge Requirements (WDR) package to the Regional Board pursuant to Section 13263 of the California Porter-Cologne Water Quality Control Act (Porter-Cologne Act). The application package is required to ensure State water quality standards have been met. The submittal package will include:

- Cover Letter: The letter will be on Michael Baker letterhead and introduce the project and define the submittal document.
- Waste Discharge Requirements Application Form: The most recent Regional Board application form will be utilized. An attachment may also be included so that the complete and detailed project description for improvements within jurisdictional areas is provided.
- Copies of other Regulatory Agency Applications: A copy of the CDFW Section 1602 Lake or Streambed Alteration Agreement (LSAA) Notification will be provided.
- Best Management Practices (BMP)/Water Quality Design: The project's BMPs will be described to verify that no water quality impacts will occur.
- Project Figures: GIS figures and site photographs will be included to illustrate key project features and help clarify written text.



- **Alternatives Analysis:** Based on a preliminary review of the proposed project, it is assumed the project includes only discharges to waters of the State outside of federal jurisdiction, but the entire project would meet the terms and conditions of one or more Water Board-certified Corps' General Permits (Nationwide Permit (NWP) 14 – *Linear Transportation Projects*), including any Corps District's regional terms and conditions, if all discharges were to waters of the U.S. Therefore, according to the *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State*, this project qualifies for an exemption to the requirement of preparing an alternatives analysis for the Regional Board. NWP 14 must meet specific size thresholds for all impacts to waters of the State to comply with the general order.
- **Environmental Documentation:** Where relevant, the environmental documentation section of the submittal package will include the Delineation of Jurisdictional Waters, and Biological Resources Assessment, and other relevant technical documents, as available.
- **Regional Board Application Fees:** A Waste Discharge Requirements Application fee (provided by the City) is required to be submitted with the WDR application package.

### **6.3 CDFW Section 1602 Lake or Streambed Alteration Agreement**

#### **6.3.1 Section 1602 Lake or Streambed Alteration Agreement (LSAA) Notification**

The proposed project is located within CDFW jurisdictional areas; therefore, Michael Baker will prepare a Lake or Streambed Alteration Agreement (LSAA) Notification, pursuant to the Section 1602 of the CFGC. The LSAA Notification package will include:

- **Notification Cover Letter:** The letter will be on Michael Baker letterhead and introduce the project and define the submittal document.
- **Notification Form:** Michael Baker will complete the most recent CDFW LSAA Notification Form (DFW 2023) and provide a separate attachment with a written description of all project activities and impacts so that the complete project description and necessary detail is included, as necessary.
- **Project Figures:** Figures will illustrate key project features and help clarify written text. Anticipated figures include: Regional Vicinity Map, Site Vicinity Map, USDA Soils Map, Site Photographs, Jurisdictional Map, and Project Site Plans.
- Notification fee (provided by the City).

#### **6.3.2 Section 1602 LSAA Studies**

Accompanying the Section 1602 LSAA Notification Submittal, Michael Baker will include the required environmental documentation including copies of the draft CEQA document ([Task 5.4](#)), Biological Resources Assessment ([Task 4.2](#)), Jurisdictional Delineation Report ([Task 4.3](#)), and other relevant technical documents, if available.



### 6.3.3 Section 1602 LSAA Agreement Processing

Michael Baker will provide regulatory services for the processing of the Section 1602 LSAA through CDFW. CDFW permit processing will include the required correspondence or telephone calls with the CDFW reviewing staff assigned to the project related to the permit applications or points of clarification, if necessary. Typically, responses to agency comments are provided via email and telephone; however, this task includes two rounds of formal response to comments for the 1602 Notification package.

### 6.4 Regulatory Approval Processing

Michael Baker will provide additional regulatory services for the processing of the AJD through the Corps, and the WDR application through the Regional Board. Permit processing will include required correspondence or telephone calls with the reviewing agency staff related to the permit applications or points of clarification, if necessary. Typically, responses to agency comments are provided via email and telephone; however, this task includes two rounds of formal (written submittal) response to comments per each application package. Michael Baker will prepare a master coordination tracking log documenting submittals and status review. The tracking log will also include call logs and electronic communication with agency reviewers. Finally, an electronic Permit Summary Report will be submitted to the City once the agency approvals are obtained.

## 7.0 HABITAT MITIGATION AND MONITORING PLAN

### 7.1 Habitat Mitigation and Monitoring Plan

Michael Baker will prepare a Habitat Mitigation and Monitoring Plan (HMMP) for the project site. The HMMP is designed to document compensatory mitigation to off-set the project's original jurisdictional impacts. Areas for potential mitigation shall be identified and the Plan developed following approval from the City, Regional Board, and California Department of Fish and Wildlife (CDFW). The Plan shall discuss:

- Responsibilities and qualifications of the personnel to implement and supervise the plan: The responsibilities of the Applicant that would supervise and implement the plan shall be specified.
- Baseline Information: Site conditions will be documented for both the project's impact areas as well as the locations identified for restoration in the design plans.
- Site preparation and planting implementation: Site preparation may include: (1) protection of existing native species; (2) trash and weed removal; (3) native species salvage and reuse (i.e., duff); (4) soil treatments (i.e., imprinting, decompacting); (5) temporary irrigation installation (if required); (6) erosion control measures (i.e., rice or willow wattles); (7) seed mix application; and (8) container species planting.
- Schedule: A schedule shall be developed which includes planting in late fall and early winter (between October 1 and January 30) or dictated by the regulatory agencies.





- *Maintenance plan/guidelines*: The Maintenance Plan shall include: (1) weed control; (2) herbivory control; (3) trash removal; (4) irrigation system maintenance (if required); (5) maintenance training; and (6) replacement planting.
- *Monitoring Plan*: The Monitoring Plan shall be described to include: (1) qualitative monitoring (i.e., photographs and general observations); (2) quantitative monitoring (i.e., randomly placed transects); (3) performance criteria, as approved by the above-listed resource agencies; (4) monthly reports for the first year and reports every other month thereafter; and (5) annual reports, which shall be submitted to the resource agencies on a yearly basis, for five years. This task does not include monitoring of the restoration sites.
- *Adaptive Management Plan*: General procedures for adaptive management shall be outlined based on known challenges within the area (i.e., drought stress, invasive pest mitigation). Following quantitative site assessments, patterns and trends related to site development will be reviewed and recommendations shall be made to correct any issues identified.
- *Long-term Management*: Long-term management of the site shall also be outlined in the HMMP to ensure the mitigation site is not impacted by future development.

Pursuant to agency requirements, the HMMP will include a maximum of five exhibits to enhance the written text and clarify the approach.

A reference site will also be identified, if available. The reference site would be in the same watershed and would provide an “example” of what the mitigation site would become. The focus is on functions and services of the mitigation site, rather than just aesthetics and vegetation.

#### *Review of Plant Quantities*

Working in concert with Michael Baker’s wetland biologists, our licensed landscape architect will review the existing species planting list and plant quantities to be utilized and advise on any changes needed for the final design. This task includes identification of plant types (i.e., cuttings, 1-gallon containers, hydroseed) and quantities (cuttings/pounds/gallons per acre). Spacing requirements will also be defined. This task excludes construction and irrigation plans.

#### *Preparation of Final HMMP Report*

This task includes responses to comments and revisions associated with client and/or regulatory agency reviews. Michael Baker shall provide regulatory services for the completion of the HMMP. The processing shall include required correspondence or telephone calls between the reviewing staff related to the HMMP. Typically, responses to agency comments are provided via email; however, this task includes one (1) round of formal (written and hard copy submittal) response to comments, as needed.

### PROJECT DELIVERABLES

#### *Kick-Off Meeting*

- One (1) electronic copy of the Kick-Off Meeting Agenda





- One (1) electronic copy of the Kick-Off Meeting Minutes

#### Investigations and Research

- One (1) electronic copy of the Ortho Photo, Topographic Map
- One (1) electronic copy of the Utility Mapping
- One (1) electronic copy of the Draft and Final Project Description

#### Preliminary Design

- Up to three electronic copies of concept plans for the four local road crossing locations
- One (1) electronic copy of the 30% Plans and Estimate
- One (1) electronic copy of the Preliminary Design Report

#### Structural Feasibility Study

- One (1) electronic copy of the Structural Feasibility Study and Preliminary Cost Estimate for two alternatives
- One (1) electronic copy of the Bridge General Plan and Typical Section Sheets (2 Plan Sheets) for one bridge type

#### Geotechnical Investigation

- One (1) electronic copy of the Preliminary Geotechnical Report including pavement and bridge foundation recommendations

#### Air Quality/ GHG/Energy

- One (1) electronic copy (PDF file) of the CalEEMod results

#### Biological Resources

- One (1) electronic copy (PDF file) of the Biological Resources Assessment

#### Jurisdictional Delineation

- One (1) electronic copy (PDF file) of the Jurisdictional Delineation

#### Cultural and Paleontological Resources

- One (1) electronic copy (PDF file) of the Cultural and Paleontological Resources Identification Memorandum

#### AB 52 Tribal Consultation Assistance

- One (1) electronic copy (PDF file) of the Draft AB 52 Tribal Consultation Letters

#### Administrative Draft Initial Study

- One (1) electronic copy (MS Word and PDF file) of the Administrative Draft Initial Study and Technical Appendices

#### Screencheck Draft Initial Study

- One (1) electronic copy (MS Word and PDF file) of the Screencheck Draft Initial Study and Technical Appendices

#### Public Review Draft IS/MND

- One (1) electronic copy (MS Word and PDF file) of the Public Review Draft IS/MND and Technical Appendices



Final IS/MND

- One (1) electronic copy (MS Word and PDF file) of the Administrative Final IS/MND (including Responses to Comments, Errata, and MMRP)
- One (1) electronic copy (MS Word and PDF file) of the Screencheck Final IS/MND
- One (1) electronic copy (MS Word and PDF file) of the Final IS/MND

## EXHIBIT “2”

### SCHEDULE

#### A. Task Order 1 – Schedule

## **EXHIBIT 2: SCHEDULE**

**In order to preserve grant funding and meet building occupancy schedules, time is of the essence.** Task Order will be processed and executed as soon as possible following selection, and shall be in place prior to Notice to Proceed.

City review periods, as noted in Exhibit 1, are included in this schedule; no additional time will be awarded for allowable time with City.

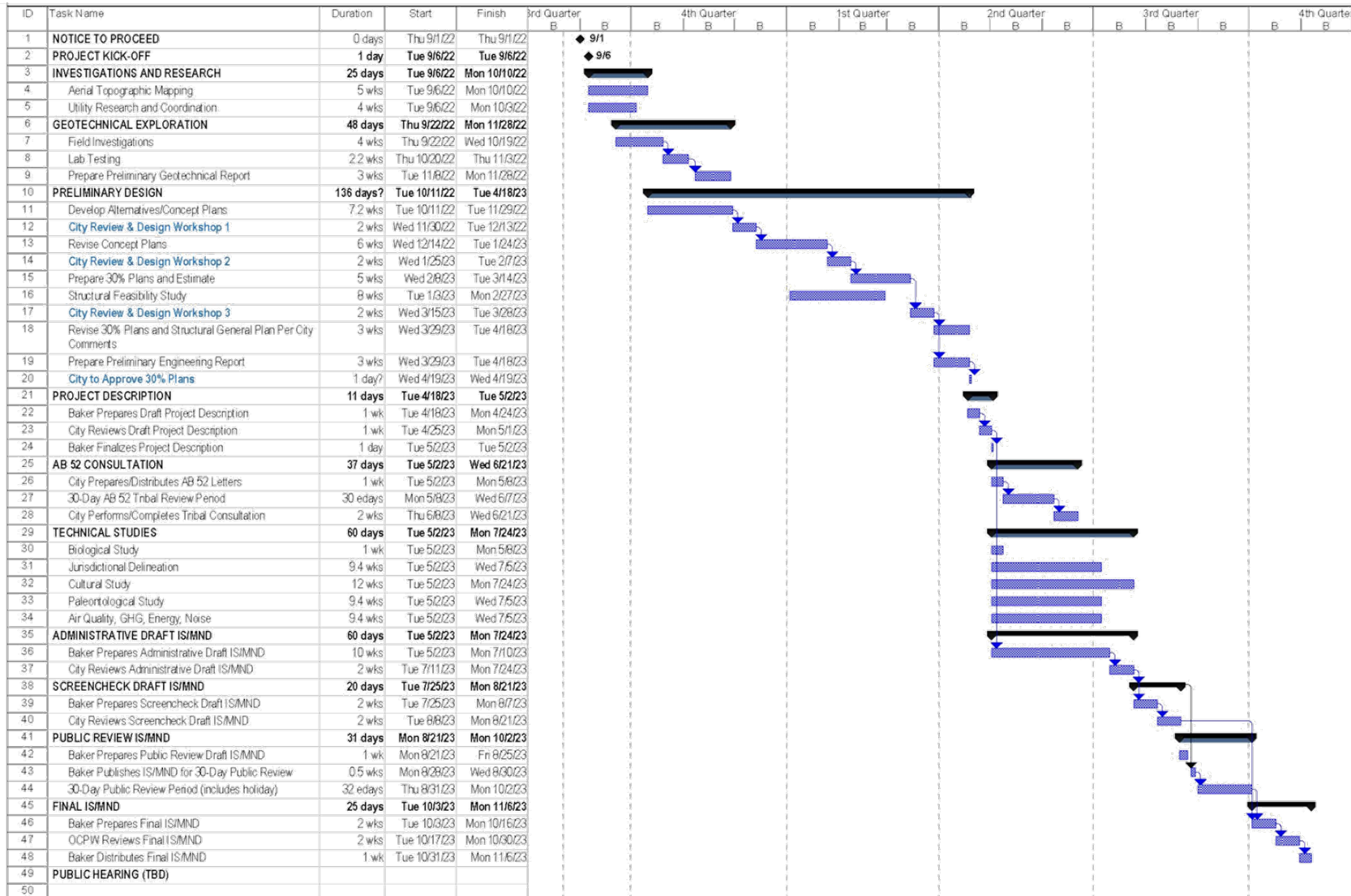
The agreement which was extended through December 2022 shall be extended through the end of this project, est. Summer 2024.

*With submittal of a Proposal, the Consultant acknowledges understanding and awareness of the proposed schedule. No price adjustments will be permitted for acceleration.*



## ESTIMATED SCHEDULE

The following preliminary schedule assumes authorization to proceed with the work program on September 1, 2022. This schedule assumes all project information is complete and available prior to or at the time of the Kick-Off Meeting.



## EXHIBIT “3”

### PAYMENT OF FEES

The Consultant shall maintain separate costs and shall identify the specific costs. The costs under this task order are on the next page.



COST PROPOSAL

Michael Baker International, Inc.		Senior Principal	Project Principal	Project Director	Program Manager	Project Manager	Design Engineer	Senior Engineer	Project Engineer	Designer/ Planner	Design Technician	Structural Engineer	2-Person Survey Crew	Licensed Surveyor	Field Supervisor	1-Person Survey Crew	Senior Planner	Project Planner	Environmental Specialist	Office Support/ Clerical	Michael Baker Hours	Michael Baker Fee	Leighton Geotechnical Fee	Aerial Mapping Vendor Fee	Total Fee By Task
Task No.	Task Description	\$315.00	\$290.00	\$270.00	\$260.00	\$230.00	\$165.00	\$190.00	\$175.00	\$135.00	\$120.00	\$215.00	\$290.00	\$210.00	\$187.00	\$180.00	\$190.00	\$160.00	\$155.00	\$85.00					
1.0	Project Management, Meetings, & Hearings	0	20	19	20	98	40	0	0	12	0	8	0	0	0	0	0	0	0	4	221	\$48,950.00	\$0.00	\$0.00	\$48,950.00
1.1	Project Kick-Off Meeting		2	2		4	2												4	14	\$2,710.00				
1.2	Project Meetings		6	3	12	24	6					8								59	\$13,900.00				
1.3	Public Hearings		8	8		10	8													34	\$8,100.00				
1.4	Project Management/Coordination		4	6	8	60	24			12										114	\$24,240.00				
2.0	Investigations and Research	0	0	2	0	10	8	0	0	48	28	0	3	23	25	22	0	20	0	0	189	\$31,535.00	\$0.00	\$7,500.00	\$39,035.00
2.1	Aerial Topographic Mapping												3	11	25	22				61	\$11,815.00		\$7,500.00		
2.2	Records Research and Initial Field Review			2			4			20	12			12						50	\$7,860.00				
2.3	Utility Research and Coordination						4			28	16									48	\$6,360.00				
2.4	Research and Investigation					4												6		10	\$1,880.00				
2.5	Draft Project Description					6												14		20	\$3,620.00				
3.0	Preliminary Design	12	0	34	26	3	64	20	120	248	116	72	0	0	0	0	0	0	0	4	719	\$118,990.00	\$76,825.00	\$0.00	\$195,815.00
3.1	Develop Alternatives/Concept Plans	4		16			32	4	40	120	60										276	\$42,020.00			
3.2	Design Workshops			6		3	12			12											33	\$5,910.00			
3.3	Prepare 30% Plans and Estimate			8			8	12	24	40	40										132	\$20,160.00			
3.4	Preliminary Design Report			2			4	4		32	16										58	\$8,200.00			
3.5	Structural Feasibility Study	8			26				56	44		72									206	\$40,500.00			
3.6	Geotechnical Exploration and Report			2			8												4	14	\$2,200.00	\$76,825.00			
4.0	Technical Studies	0	0	0	0	18	0	0	0	217	0	0	0	0	0	0	69	0	38	30	372	\$54,985.00	\$0.00	\$0.00	\$54,985.00
4.1	Air Quality Analysis					1				35									12		48	\$6,815.00			
4.2	Biological Resources Assessment					4				24							30			12	70	\$10,880.00			
4.3	Jurisdictional Delineation					1				53							23				77	\$11,755.00			
4.4	Cultural & Paleo Resources Identification Memo					8				46							14		4	18	90	\$12,860.00			
4.5	GHG Emissions Analysis					1				15									8		24	\$3,495.00			
4.6	Energy Analysis					1				10									4		15	\$2,200.00			
4.7	Noise Analysis					1				28									10		39	\$5,560.00			
4.8	AB 52 Consultation Assistance					1				6							2				9	\$1,420.00			
5.0	IS/MND	0	11	0	0	34	0	0	0	24	0	0	0	0	0	0	10	132	0	18	229	\$38,800.00	\$0.00	\$0.00	\$38,800.00
5.1	Admin Draft IS		4			16											10	98		12	140	\$23,440.00			
5.2	Screencheck Draft IS/MND		2			6				6								16			30	\$5,330.00			
5.3	Public Review Draft IS/MND		1			4												12		4	21	\$3,470.00			
5.4	Final IS/MND		4			8				18								6		2	38	\$6,560.00			
SUBTOTAL HOURS AND FEE:		12	31	55	46	163	112	20	120	549	144	80	3	23	25	22	79	152	38	56	1,730	\$293,260.00	\$76,825.00	\$7,500.00	\$377,585.00
OTHER DIRECT COSTS:																						\$5,600.00			\$5,600.00
TOTAL HOURS AND FEE:		\$3,780.00	\$8,990.00	\$14,850.00	\$11,960.00	\$37,490.00	\$18,480.00	\$3,800.00	\$21,000.00	\$74,115.00	\$17,280.00	\$17,200.00	\$870.00	\$4,830.00	\$4,675.00	\$3,960.00	\$15,010.00	\$24,320.00	\$5,890.00	\$4,760.00		\$298,860.00	\$76,825.00	\$7,500.00	\$383,185.00
OPTIONAL TASKS																									
6.0	Regulatory Permitting	0	0	0	0	0	0	0	0	142	0	0	0	0	0	0	72	0	0	0	214	\$32,850.00	\$0.00	\$0.00	\$32,850.00
6.1	Corps Section AJD									25							11				36	\$5,465.00			
6.2	Regional Board WDR									29							14				43	\$6,575.00			
6.3	CDFW Section 1602 LSAA									44							24				68	\$10,500.00			
6.4	Regulatory Approval Processing									44							23				67	\$10,310.00			
7.0	HMMP	0	0	0	0	0	0	0	0	82	0	0	0	0	0	0	26	0	0	0	108	\$16,010.00	\$0.00	\$0.00	\$16,010.00
7.1	HMMP									82							26				108	\$16,010.00			
SUBTOTAL HOURS AND FEE:		0	0	0	0	0	0	0	0	224	0	0	0	0	0	0	98	0	0	0	322	\$48,860.00	\$0.00	\$0.00	\$48,860.00
OTHER DIRECT COSTS:																						\$250.00			\$250.00
TOTAL HOURS AND FEE:		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30,240.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18,620.00	\$0.00	\$0.00	\$0.00		\$49,110.00	\$0.00	\$0.00	\$49,110.00

Note: All work will be performed on a Fixed Fee basis. The total budget includes miscellaneous costs for travel/mileage, reproduction, reimbursables, telephone, postal, delivery, reference materials and incidental expenses. The Michael Baker project manager reserves the right to make adjustments to staff allocations as necessary within the overall budget.