

**THIRD AMENDMENT
TO PROFESSIONAL SERVICES AGREEMENT BETWEEN CITY OF BEAUMONT
AND MOFFATT & NICHOL FOR ENVIRONMENTAL SERVICES FOR
PENNSYLVANIA AVENUE GRADE SEPARATION (CIP 2017-012)**

THIS THIRD AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES BY INDEPENDENT CONTRACTOR is made and effective as of the 15th day of November, 2022, by and between the CITY OF BEAUMONT, a general law city, (“CITY”) whose address is 550 E. 6th Street, Beaumont, California 92223 and MOFFATT & NICHOL, a California corporation whose address is 4225 East Conant Street, Long Beach, CA 90808 (“CONTRACTOR”) in consideration of the mutual promises and purpose contained herein, the parties agree as follow:

1. RECITALS

This Third Amendment is made with respect to the following facts and purpose that the parties agree are true and correct:

A. On December 19, 2017, the City and MOFFATT & NICHOL, entered into that certain agreement entitled “Agreement for Professional Services by Independent Contractor” for ENVIRONMENTAL DOCUMENTATION SERVICES FOR THE PENNSYLVANIA AVENUE INTERCHANGE IMPROVEMENT PROJECT, PENNSYLVANIA AVENUE WIDENING PROJECT AND THE PENNSYLVANIA AVENUE GRADE SEPARATION PROJECT (“Agreement”).

B. City has requested a further change in scope to the work under the Agreement regarding NEPA compliance for the Pennsylvania Avenue Grade Separation Project and CONTRACTOR has requested that the scope of work should be increased as provided in the Proposal dated November 2, 2022, a copy of which is attached hereto as Exhibit “A”, and incorporated herein by this reference.

2. AMENDMENT

Section 1 of the Agreement is hereby amended to extend the term of the agreement until the services are completed, but not to exceed one (1) year or December 19, 2023.

Section 2 of the Agreement is hereby amended to add to the Services those services identified in the Proposal attached hereto as Exhibit “A”.

Section 4.01 of the Agreement is hereby amended to increase the maximum compensation under the Agreement as follows: Under previous Amendments, compensation was set at four hundred and eleven thousand, six hundred and sixty-nine dollars (\$411,669). Per this Third Amendment, compensation is increased by the maximum amount of one hundred and forty-four thousand, seven hundred and five dollars (\$144,705) as provided in the Proposal attached hereto

as Exhibit "A" resulting in total compensation under the Agreement not to exceed five hundred and fifty-six thousand, three hundred and seventy-four dollars (\$556,374).

The recitals to this Amendment are deemed incorporated herein by this reference. All other terms of the Agreement not expressly amended by this Amendment shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereby have made and executed this Third Amendment to Professional Services Agreement to be effective as of the day and year first above-written.

CITY:

CONTRACTOR:

CITY OF BEAUMONT

MOFFATT & NICHOL

By: _____

By: _____

Lloyd White, Mayor

Print Name: _____

ATTEST

Title: _____

City Clerk

APPROVED AS TO FORM

John Pinkney, City Attorney

EXHIBIT “A”

PROPOSAL DATED November 2, 2022

November 2, 2022

Mr. Jeff Hart
City of Beaumont Public Works Director
550 E. 6th Street
Beaumont, CA 92223

Subject: Pennsylvania Avenue Grade Separation Project - Amendment Request #3 for Environmental Documentation Services (NEPA)

Dear Mr. Hart:

Moffatt and Nichol (M&N) is pleased to provide the City of Beaumont with continued assistance on the Pennsylvania Avenue Grade Separation Project. This amendment request is to our existing contract dated December 19, 2017 to provide “Environmental Documentation Services for Pennsylvania Avenue Interchange Improvement Project, Pennsylvania Avenue Widening Project and the Pennsylvania Avenue Grade Separation Project.” Specifically, this Amendment #3 request is to (1) extend the contract beyond December 19, 2023 for one additional year, (2) provide environmental services associated with National Environmental Policy Act (NEPA) services for the Pennsylvania Avenue Grade Separation Project (Grade Sep Project) due to the City obtaining federal funds by FHWA to help build the Grade Sep Project, and (3) updating our billing rates (as the original contract was approved in December 2017).

Amendment #1 dated January 2, 2019 was approved for (1) extending the contract to December 19, 2020 (term of agreement) to December 19, 2023, and (2) providing Regulatory and Multiple Species Habitat Conservation Plan (MSHCP) services specifically for the Pennsylvania Avenue Widening Project (additional services and compensation). Amendment #1 services were not included in the original 2017 contract because the original contract was only for services during the environmental document phase (technical studies and the environmental document), and these regulatory services are completed during final design, which is the project phase after the environmental document phase.

Amendment #2 dated February 2, 2021 was approved for (1) extend the contract beyond December 19, 2020, and (2) provide continued California Environmental Quality Act (CEQA) services for the Pennsylvania Avenue Widening Project (Widening Project) due to project description changes, changes to the CEQA Environmental Checklist, revision to USACE regulations on Waters of the United States definition, and new SB743 legislation (requirement to analyze vehicles miles travelled) that occurred in June-July 2020 after production of the environmental documentation had already commenced. Since 2019 and in June-July 2020, the Widening Project has undergone design changes from the original 95% Plan Set, regulatory changes (SB743 implementation and USACE jurisdiction definition), and changes in CEQA that require additional effort to complete the tasks. Design changes include removing the sidewalk from the east side of Pennsylvania Avenue, incorporating new structural Best Management Practices (BMP)s and a

revised project footprint. These project description changes will require additional effort to update the supportive technical analysis/studies already completed and update environmental resource analyses in the IS/MND.

In Summer 2022, the City decided to procure federal funds from FHWA to help build the Grade Sep project. Since there will now be a federal nexus, the Grade Sep project is federalized, and NEPA compliance is required. Per NEPA Assignment, Caltrans acts on behalf of FHWA, and therefore the NEPA document and technical studies need to comply with Caltrans processes and templates (as applicable). A Preliminary Environmental Study (PES) will be required, which identifies the type and level of any required technical studies and the type of NEPA environmental document. At this time, it is anticipated that a NEPA Categorical Exclusion will be the appropriate environmental document to demonstrate NEPA compliance. Further, the following technical studies may also be required (to be confirmed once the PES is approved by Caltrans):

- Part of the project is located with the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP) and possible waters of the US/State. See attached Biological Scope of Work from Noreas, Inc.
- The Union Pacific Railroad is a recorded historic site in the area, and excavation is anticipated for this project. The project will need to comply with Section 106 of the National Historic Preservation Act. See attached Cultural Scope of Work from CRM Tech.
- The project is located within City and Union Pacific right-of-way, a Phase I Initial Site Assessment (to determine any hazardous materials within the project site) will likely be needed. See attached Phase I ISA Scope of Work from Leighton.
- The project will have a vertical change to the Pennsylvania Avenue alignment, a Noise Study Report (NSR) will likely be needed. See attached Noise Scope of Work from Entech Consulting Group.
- A paleontological sensitivity assessment may be needed for this project. See attached Palaeontological Scope of Work from CRM Tech.

M&N respectfully requests additional authority to prepare/process technical analyses associated with the NEPA environmental document (for \$33,700), and an additional \$111,005 for optional tasks (pending requirements identified with PES approval) for a total of \$144,705). The tasks, fees, assumptions and exclusions are included in Attachment A Scope of Work.

If you have any questions or require additional information, please contact me at 562-317-3491. We look forward to working with you.

Sincerely,
MOFFATT & NICHOL



Stephanie S. Oslick, AICP, ENV SP
Project Manager

Encl: Attachment A: Scope of Work and Fee and proposals from subconsultants

Attachment A (Scope of Work and Fee)

TASK 1 – PROJECT DESCRIPTION AND PRELIMINARY ENVIRONMENTAL STUDY (PES)

M&N will prepare the project description for inclusion in the Caltrans Preliminary Environmental Study (PES), consistent with the latest Caltrans Local Assistance Procedures Manual – Chapter 6 (dated November 2021).

Scope of work:

- Coordinate with Project Engineer for updated Plan Set and CAD Files.
- Prepare and submit PES to City and Caltrans for review (and approval by Caltrans).

Deliverable:

- Draft and Final Preliminary Environmental Study (PES), which includes Project Description

TASK 2 – NEPA ENVIRONMENTAL DOCUMENT

M&N will prepare the NEPA environmental document (assumed to be a Categorical Exclusion with Caltrans acting as the NEPA Lead Agency), consistent with the Project Description and PES described under Task 1 above.

Scope of work:

- Prepare Draft and Final NEPA Categorical Exclusion for City and Caltrans review (and Caltrans approval)

Deliverables:

- Prepare Draft and Final NEPA Categorical Exclusion

Please note – Task 2 was already included as part of the original contract, so additional budget is now needed as the original contract was approved in December 2017.

TASK 3 – PROJECT MANAGEMENT

M&N will manage the environmental document, coordination with subconsultants, billing, invoicing and contract between the City and M&N's subconsultants.

Deliverable:

- No specific deliverable for this Task.

TASK 4 – ENVIRONMENTAL TECHNICAL STUDIES (Optional)

M&N will coordinate with the technical specialists to provide the Project Description, Environmental Project Footprint and respond to requests for information needed to prepare environmental technical studies. M&N oversight will include quality control for adequacy of analysis and findings consistent with NEPA. Although our experience with Caltrans has indicated that environmental technical studies become “dated” after two or three years, to the greatest extent possible, environmental analyses prepared for adjacent projects (including Pennsylvania Avenue Widening Project) will be used.

Scope of work:

- Coordinate with specialists to prepare environmental technical studies consistent with that is identified in the Caltrans approved PES (Task 1).
- Oversee and Quality Control of environmental technical studies as identified in the Caltrans approved PES (Task 1). Optional scope/fee are attached to this document for Biological Resources, Cultural Resources, Hazardous Materials, Noise and Paleontology.
- Coordinate with City as needed regarding findings of the technical analyses.

Deliverable:

- Draft and Final Environmental Technical Studies (per NTP from City based on Caltrans approved PES).

TASK 5 – REGULATORY PERMITTING (Optional)

If needed, M&N will prepare regulatory permitting applications to impacts to wetlands or Waters of the US/Waters of the State from the US Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and/or California Department of Fish and Wildlife (CDFW).

Scope of work:

- Coordinate with applicable regulatory agencies and submit permit applications.

Deliverable:

- Regulatory agency permit applications (assuming USACE Nationwide Permit, RWQCB 401 Certification, and CDFW 1600).

**Table 1. Task Description and Cost Proposal
 Pennsylvania Avenue Grade Separation Project - Amendment #3 (NEPA)**

Task Description	Hours	Fee (\$)
1. Project Description and Preliminary Environmental Study (PES) <ul style="list-style-type: none"> • Project Description for City Approval • Prepare PES and submit to City and Caltrans (for Caltrans review and approval) 	130	\$23,100

Task Description	Hours	Fee (\$)
2. NEPA Environmental Document <ul style="list-style-type: none"> • NEPA Categorical Exclusion (and Caltrans Coordination) 	22	\$4,220
3. Project Management <ul style="list-style-type: none"> • Project Management/Meetings/Coordination 	22	\$4,640
Subtotal	174	\$33,700
4. Environmental Technical Studies (Optional pending Caltrans Approval of PES) <ul style="list-style-type: none"> • Biological Resources • Cultural Resources • Hazardous Materials (ISA) • Noise • Paleontology 	TBD	\$56,000 \$10,740 \$7,900 \$17,025 \$2,740
Subtotal (Optional)	TBD	\$94,405
5. Regulatory Permitting (Optional) <ul style="list-style-type: none"> • USACE, RWCQB, and/or CDFW 	100	\$16,00
Subtotal (Optional Tasks 4 and 5)	TBD	\$111,005
Total (includes Tasks 1-3 and Optional Tasks 4-5)	188	\$144,705

Assumptions and Exclusions:

1. The Project will require Caltrans review and approval of the Environmental Document and Technical Studies. Caltrans is the NEPA Lead Agency.
2. No additional project description changes will occur as of the 65% plans provided to M&N. Project description changes may require a revised scope of work.
3. This scope of work is valid for 90 days. Any delays beyond M&N’s control may require a revised scope of work.
4. The scope of work assumes no significant environmental impacts as defined by NEPA, which would require a higher-level environmental document to be prepared (e.g., Environmental Assessment or Environmental Impact Statement).
5. It is assumed that no sensitive species (e.g., threatened or endangered species) will be present within the project study area.
6. Up to five environmental resource technical studies are included as optional (Task 4). After Caltrans approval of the PES (Task 1), the specific technical studies required for this project will be identified and inform which technical studies will needed. The specific scope of work for each of the technical studies are included to this document. No work will commence unless required and M&N obtains NTP from the City.
7. Regulatory permitting is included as an optional task (Task 5). No work will commence unless required and M&N obtains NTP from the City. Any permitting application fees will be paid by the City.



**CITY OF BEAUMONT’S PENNSYLVANIA AVENUE GRADE SEPARATION PROJECT
SCOPE OF WORK & FEE PROPOSAL**

October 19, 2022

Ms. Stephanie Oslick
Moffatt & Nichol
4225 East Conant Street
Long Beach, CA 90808

SUBJECT: CITY OF BEAUMONT’S PENNSYLVANIA AVENUE GRADE SEPARATION PROJECT – SCOPE OF WORK & FEE PROPOSAL

NOREAS Inc. (NOREAS) is pleased to provide this scope of work and fee proposal to assist Moffatt & Nichol (MN) with the City of Beaumont’s Pennsylvania Avenue Grade Separation Project (hereafter referred to as the “Project”). For the purposes of this scope of work (SOW), the proposed “study area” is limited to ≤ 10-acres – located in the City of Beaumont, County of Riverside, California.

The following tasks will be completed on a time and materials basis:

- **TASK 1. BIOLOGICAL SURVEY, ANALYSIS & BIOLOGICAL TECHNICAL REPORT;**
- **TASK 2. WESTERN RIVERSIDE MULTIPLE SPECIES HABITAT CONSERVATION PLAN (MSHCP) CONSISTENCY REPORT;**
- **TASK 3. DELINEATION OF WETLANDS, WATERWAYS AND MSHCP RIPARIAN/RIVERINE RESOURCES;**
- **TASK 4. BURROWING OWL SURVEY & REPORT;**
- **TASK 5. NARROW ENDEMIC PLANT SURVEYS & REPORT; AND**
- **TASK 6. NATURAL ENVIRONMENT STUDY**

TASK 1. BIOLOGICAL SURVEY, ANALYSIS & BIOLOGICAL TECHNICAL REPORT

NOREAS will review resource databases, local resource management plans, aerial photos, and other readily available commercial data to determine the location and types of biological resources that have the potential to exist in the region and within the Project’s study area. The literature review will support the development of all written deliverables within this SOW. NOREAS shall also perform: pedestrian based biological surveys; conduct vegetative mapping; and complete habitat assessments to determine the presence – or absence, of special status species habitat within the study area. Field work will disclose and evaluate the onsite habitat conditions; and determine the potential for occurrence of common and special status species, their habitats, and sensitive land cover types. In general, the field analysis and data collection will focus on identification and estimation of the approximate acreages of various land cover types that occur within Project’s limits. A stand-alone Biological Technical Report (BTR) will be prepared for the Project which details the results of the literature review, pedestrian based biological surveys, and data analysis. The report will present the existing biological resources within the study area, and describe the following:

- ✓ The methods used in identifying and assessing biological resources, the personnel who conducted the studies, contacts made with agencies – if any, and limitations associated with the data analysis;
- ✓ The environmental setting will include both the biological and physical setting within and adjacent to the study area; and
- ✓ The results, including presence/absence of special status species habitats, riparian or other sensitive natural communities, etc.



CITY OF BEAUMONT'S PENNSYLVANIA AVENUE GRADE SEPARATION PROJECT SCOPE OF WORK & FEE PROPOSAL

TASK 2. WESTERN RIVERSIDE MULTIPLE SPECIES HABITAT CONSERVATION PLAN (MSHCP) CONSISTENCY REPORT

The Project is within Western Riverside Multiple Species Habitat Conservation Plan (MSHCP) boundaries and is subject to a determination that Project activities are consistent with the policies within Section 6.0 of the MSHCP. Accordingly, analysis and data synthesis will focus on identification and estimation of the approximate acreage of various vegetation communities that would likely be affected from Project implementation. Project specific biological data will be analyzed based upon MSHCP consistency requirements. For example, since the Project is within MSHCP boundaries (Badlands Area Plan – not within a Cell Group, or Criteria Cell) it is subject to a determination that proposed Project activities are consistent with MSHCP Section 6.0 (i.e., riparian/riverine [Section 6.1.2], and species survey requirements [Sections 6.1.3 and 6.3.2]). As a result, a stand-alone report will be prepared by NOREAS to analyze the Project based upon MSHCP consistency specifications (e.g., effects on MSHCP Covered Species, Core Areas, Linkages, and Conservation Area Configuration). In addition, this analysis will consider the degree to which the Project incorporates the siting and design criteria defined within the MSHCP (i.e., guidelines for wildlife, best management practices [BMP's] and so forth).

TASK 3. DELINEATION OF WETLANDS, WATERWAYS AND MSHCP RIPARIAN/RIVERINE RESOURCES

NOREAS proposes to evaluate available data (i.e., previously prepared environmental documents, memos, reports and fact sheets for the Project, National Wetland Inventory, Aerial Photographs, United States Geological Survey [USGS] maps, MSHCP Transportation and Land Management Agency Geographic Information Services Database, Regional Conservation Authority GIS Data Mapping Tool, etc.) and delineate jurisdictional wetlands, waterways, and those locales that satisfy the MSHCP's Section 6.1.2 definition of Riparian/Riverine Resources pursuant to the substantive provisions set forth within the following:

- ✓ US Army Corps of Engineers (USACE) Wetland Delineation Manual;
- ✓ Lichvar and Wakeley's Interim regional supplement to the USACE Wetland Delineation Manual Arid West Region Direction on Delineating Arid Streams;
- ✓ USACE and Environmental Protection Agency's June 2007 issued Clean Water Act (CWA) Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States* guidance document;
- ✓ Mesa Field Guide: Mapping Episodic Stream Activity (Vyverberg et al. 2014) (MESA);
- ✓ A Field Guide to Lake and Stream Bed Alteration Agreements Sections 1600 – 1607; and
- ✓ Section 6.1.2 of the WRMSHCP, Volume I.

NOREAS will prepare a written delineation report to indicate the presence or absence of wetlands, Waters of the United States (WoUS), Waters of the State (WoS), and MSHCP Riparian/Riverine Resources within the study area. The aforementioned document will represent an estimate of jurisdictional boundaries using the most recent regulations, written policies, and guidance from the regulatory agencies. However, only the USACE, Regional Water Quality Control Board (RWQCB), California Department of Fish and Wildlife (CDFW), MSHCP Environmental Programs Department (EPD), and the Regional Conservation Authority (RCA) can make a final determination of special aquatic resource area¹ boundaries and jurisdiction. The field delineation and analysis methods, results and

¹ For the purposes of this analysis, a special aquatic resource area is defined as any potential: United States Army Corps of Engineers jurisdictional wetland and/or waterway feature pursuant to Section 404 of the Clean Water



CITY OF BEAUMONT'S PENNSYLVANIA AVENUE GRADE SEPARATION PROJECT SCOPE OF WORK & FEE PROPOSAL

conclusions will be presented within a single technical report (i.e., Delineation Report). Field work will be completed in accordance with established protocols for analysis and public disclosure of special aquatic resource area boundaries. It is anticipated that minimal differences in terrain, vegetation density, weather and visibility will allow 2 biologists to complete the proposed field activities in no more than 2 days.

TASK 4. BURROWING OWL SURVEY & REPORT

The study area is within a designated Western Riverside MSHCP Burrowing Owl Survey Area. To that end, the MSHCP requires surveys for Burrowing Owl in areas where suitable habitat is identified. The proposed survey protocol for Burrowing Owls was taken directly from the MSHCP, *Instructions for Burrowing Owl Surveys for the Western Riverside Multiple Species Habitat Conservation Plan Area* (2006). The focused surveys will be comprised of the following tasks:

- ✓ One burrow survey and an additional 4 separate survey events shall be conducted from one hour before sunrise to two hours after sunset;
- ✓ Biologists will examine burrows for owl sign, and map owl locations with a global position system on Project maps – if appropriate; and
- ✓ Burrowing owl sightings will be counted and mapped - identifying occupied / unoccupied burrows, and sign.

It is anticipated that differences in terrain, vegetation density, private property, topographic relief, etc., will allow biologists to complete the field surveys in four (4) calendar days. After completion of the above referenced surveys, a final report will be developed. This report will discuss survey methods and results. Appropriate maps showing potential burrow locations shall also be included.

TASK 5. NARROW ENDEMIC PLANT SURVEYS & REPORT

The study area is within a designated survey area for MSHCP Narrow Endemic Plants. Pursuant to MSHCP specifications, surveys for the following species will be required:

- Marvin's onion, April-May; and
- Many-stemmed dudleya, April-July.

Focused surveys will coincide with known flowering period of above referenced special status plant species. Reference populations for representative species will be visited prior to initiation of field surveys. This will be done to objectively validate survey timing, findings and document local variations in flowering phenology. Prior to initiating plant surveys, known plant populations in the region are observed; safeguarding that the surveys appropriately coincide with the observation period of targeted species during wetter/drier-than-normal years. The field survey methods, results and conclusions will be provided within a written stand-alone Technical Report. This SOW assumes that differences in terrain, vegetation density and visibility will allow 2 biologists to complete the field work in no more than 3 calendar days.

Act; Regional Water Quality Control Board jurisdictional water pursuant to their legal authority in accordance with Section 401 of the Clean Water Act and as defined within Section 13050(e) (et seq.) of the California Water Code via the Porter-Cologne Water Quality Control Act; California Department of Fish and Wildlife bed, bank, channel or riparian locations jurisdictional pursuant to Section 1600 (et seq.) of the California Fish and Game Code and locales that satisfy the MSHCP's definition of Riparian/Riverine.



CITY OF BEAUMONT'S PENNSYLVANIA AVENUE GRADE SEPARATION PROJECT SCOPE OF WORK & FEE PROPOSAL

TASK 6. NATURAL ENVIRONMENT STUDY

A California Department of Transportation (CALTRANS)-compliant Natural Environment Study (NES) will be prepared based on the results of the previous described biological surveys and analysis. The NES will describe the existing biological resources within the study area and detail how the Project may affect those resources. The NES will summarize technical documents (e.g., stand-alone focused species studies, delineation report, etc.) related to effects on biological resources in the study area for use in a Project specific environmental document. The NES will conform to the most current version of the CALTRANS NES template - as provided in Volume 3 (Biological Resources), Chapter 2 (Natural Environment Study) of the SER. Furthermore, the NES will be prepared in accordance with CALTRANS' Quality Control Guidance for Standard Biological Technical Documents and Reports. The NES will also provide language and minimization measures for use within the Project specific environmental document.

ASSUMPTIONS

- NOREAS will be provided with the physical limits / boundaries of the study area. Project boundaries and the roughly 10-acre.
- This SOW does not include any formal federal or state Endangered Species Act consultations.
- This SOW does not include any discretionary permitting.
- This SOW does not include a Determination of Biologically Equivalent or Superior Preservation (DBESP) report.
- NOREAS anticipates that one (1) administrative draft and one (1) final version of work products will be provided via email. Drafts will be revised in accordance with one round of formally submitted comments.
- NOREAS will be provide with authorization and assist NOREAS in arranging access to the Project, if necessary.
- SOW includes no focused amphibian, mammal, Delhi Sands Flower-loving Fly or Criteria Area plant surveys.
- The services to be performed by NOREAS will be conducted in a manner consistent with that level of care and skill ordinarily exercised by other professional consultants under similar circumstances. Opinions relating to presence, absence, or potential for occurrence of biological resources will be based on limited data and actual conditions may vary from those encountered at the times and locations where the data were obtained; despite the use of due professional care.



**CITY OF BEAUMONT'S PENNSYLVANIA AVENUE GRADE SEPARATION PROJECT
SCOPE OF WORK & FEE PROPOSAL**

FEE ESTIMATE

Consulting services described herein are effective October 19, 2022 and are expected to extend to December 31, 2023. NOREAS will provide the scope of services described herein on a time and materials basis, and will not exceed the level of effort estimate provided below without written authorization from MN.

Activity	Cost
TASK 1. BIOLOGICAL SURVEY, ANALYSIS & BIOLOGICAL TECHNICAL REPORT	\$5,000.00
TASK 2. WESTERN RIVERSIDE MULTIPLE SPECIES HABITAT CONSERVATION PLAN (MSHCP) CONSISTENCY REPORT	\$7,500.00
TASK 3. DELINEATION OF WETLANDS, WATERWAYS AND MSHCP RIPARIAN/RIVERINE RESOURCES	\$10,000.00
TASK 4. BURROWING OWL SURVEY & REPORT	\$7,000.00
TASK 5. NARROW ENDEMIC PLANT SURVEYS & REPORT	\$6,500.00
TASK 6. NATURAL ENVIRONMENT STUDY	\$20,000.00
Total	\$56,000.00

If you have any questions about the scope or fee estimate, please contact me at your earliest convenience.

PRESENTED BY:

Lenny Malo, Vice President – 10/19/22
NOREAS, Inc.



CRM TECH

1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

October 12, 2022

Moffatt & Nichol
4225 East Conant Street
Long Beach, CA 90808
Stephanie S. Oslick

COST PROPOSAL AND SCOPE OF WORK

**Historic Property Survey, Archaeological Survey, and Historic Resource Evaluation Reports
And Paleontological Resources Sensitivity Assessment for the
Pennsylvania Grade Separation (NEPA) Project
City of Beaumont, Riverside County, California**

CRM TECH is pleased to submit to Moffatt & Nichol ("Client"), this proposal for the project referenced above. All three projects are at or near the intersection of Pennsylvania Avenue and the I-10 Freeway, in the City of Beaumont, Riverside County, California.

The Pennsylvania Grade Separation undertaking is located where Pennsylvania Avenue crosses the Union Pacific Railroad tracks. The Area of Potential Effects (APE) is the railroad right-of-way (approximately 200 feet wide) extending east and west of Pennsylvania Avenue for a total of approximately 2,500 feet. Due to federal nexus (NEPA, with Caltrans District 8 as the Lead Agency), the survey will comply with Section 106 of the National Historic Preservation Act and in accordance with Caltrans' Environmental Handbook (Volume 2): Cultural Resources. We know that the Union Pacific Railroad is a recorded historic site in this area. All of this information is taken into account in this proposal.

Scope of Work

To comply with the requirements for the cultural resource assessment for this undertaking, CRM TECH will complete the following tasks:

1. Contact the local Caltrans office to discuss any concerns, to review any records or documents that they may have regarding the property, and to ensure that we complete the work as they require (*project management*).
2. Digitize the APE boundaries into our GIS mapping program and produce maps of it and the vicinity on appropriate current and historic-period maps and aerial images (and geologic maps); these will be used during the records searches, background and geomorphological research, Native American scoping, field survey, and for inclusion in the report, as appropriate [*this is not the required APE map (see below)*].

3. ***Request the required historical resources records search using of the California Historical Resources Inventory and other sources of the subject property and immediate vicinity from the Eastern Information Center, University of California, Riverside; this will provide information regarding previous cultural surveys and the types of cultural resources that have been recorded in the vicinity which will help us to understand the prehistoric and historic resource context of the area (in terms of both density and types of resources) and help us develop a preliminary assessment of the cultural sensitivity of the APE.
4. Pursue general prehistorical and historical background information using archaeological, ethnographic, and historical literature as well as early maps to develop the prehistorical and historical context of the area and for information about previous land uses and development trends within and near the APE.
5. Complete a geomorphologic literature and map search to determine the prehistoric/historic landscapes of the area and possible human use of those landscapes to help assess the sensitivity of the subsurface of APE (the vertical APE) for potential significant buried cultural resources, as required by the Section 106 process.
6. Request a sacred lands file search from the Native American Heritage Commission and contact the appropriate Native American representatives (as directed by Caltrans) from the list supplied by the Commission to see if they have any knowledge of Native American resources in and around the project area or have any concerns regarding the projects; follow-up phone calls will be made to groups that do not reply in a reasonable time (this will be done according to Caltrans requirements and timeline for the undertaking).
7. As required by Section 106 and Caltrans requirements, conduct site-specific historical studies, including archival research, interviews, and consultations with local historical societies and/or other representatives of the local community concerning the APE, as necessary, to determine past land uses and owners and to explore historical associations or important historical events.
8. Conduct a field survey of the APE following professional archaeological procedures, which would include, among other standard procedures, systematically inspecting the APE and taking detailed notes and photographs to document the current conditions.
9. Field record any artifacts, features, sites or structures greater than 45 years of age; this would include, among other processes, detailed note taking, plotting the location with a handheld GPS, taking photographs of specific items or, and making scaled drawings (as appropriate).
10. Complete standard site record forms (DPR 523) on any cultural resources that merit formal recordation under guidelines set forth by the California State Office of Historic Preservation.
11. Prepare a draft Historic Property Survey Report (HPSR), a draft Archaeological Survey Report (ASR), and a draft Historic Resources Evaluation Report (HRER) according to standard Caltrans format; these reports will document the methods and findings of the procedures outlined above, identify known and potential historic properties within or adjacent to the APE, discuss their integrity and possible historical significance under criteria of the California Environmental Quality Act and/or the National Register of Historic Places, incorporate comments and recommendations from the Tribes (if any), and recommend subsequent courses of actions regarding cultural resources, as necessary.
12. Review any comments, plan and organize responses to them, and prepare another set of draft reports that incorporates the comments and suggested changes/additions.
13. Review another round of comments from the same and/or different Caltrans personnel and plan and organize responses to comments and prepare the reports accordingly.

It is understood that the necessary APE map will be prepared by Moffatt & Nichol or some other subconsultant.

Additional services subsequent to the conclusion of the study, such as attendance and presentation at public hearings and written response to public comments, will be provided as needed. Additional funds may be needed if Caltrans makes additional revision requests that should have been included during the first review and/or that go beyond what would be reasonable.

Cost for the NEPA Cultural (Caltrans District 8) Study

CRM TECH will complete the tasks listed above for a cost of **\$10,740.00**.

The price assumes that Moffatt & Nichol, or some other entity, will prepare the necessary APE map for Caltrans approval (CRM TECH can provide guidance if necessary).

This price is based on the assumption that Caltrans will not require the study to include an Indirect APE. That is, the price is only for the cultural resource study of the Direct APE.

Additional services subsequent to the conclusion of the study, such as attendance at meetings and responding to an inordinate number of comments and revision requests, if necessary, will be billed at a flat hourly rate of \$140.00 per hour.

Paleontological Study

The Client requests that we also conduct a paleontological sensitivity assessment of the APE. It is assumed that Caltrans is not going to request this study but, rather that it be conducted to satisfy the City. To provide the requested information, CRM TECH will complete the following tasks:

1. Use the digitized project area boundary and produce maps of it and the vicinity on a geologic map for use during the paleontological research and field inspection, and for inclusion in the report.
2. Request a paleontological resources records search from the Western Science Center, Hemet.
3. Review pertinent paleontological literature and geological maps for information regarding geological formations and paleontological resources in the project area and vicinity.
4. Conduct a field survey of the project area following standard professional paleontological procedures; surface soils and current conditions, including any previous impacts will be noted and representative photographs will be taken during that time (*no charge if conducted at the same time as the archaeological survey*).
5. Prepare a report to document the methods and findings of Tasks 1-4, identifying any potential fossil-bearing soils (and paleontological resources) within the project area, assessing the possibility of impacting paleontological resources during project construction, and recommending subsequent courses of action for paleontological resource compliance for the project area.

Cost: Paleontological Resource Assessment

CRM TECH proposes to complete the paleontological study for a cost of **\$2,740.00**. The cost of the paleontological study proposed here, however, is valid only if CRM TECH conducts both the archaeological and paleontological studies for this property at the same time.

Total Cost: Both Technical Studies

This results in a combined cost for both the cultural resources study and the paleontological resources assessment of **\$13,480.00**.

Reimbursable Expenses

The prices quoted here include items such as mileage, copying and printing, Information Center charges, and administrative fees. No reimbursable expenses or indirect costs will be added to our invoices.

Payment Schedule

Progress billings will be made as work proceeds. The remaining balance will be due upon completion of the reports.

Project Schedule

Start date: Immediately upon authorization to proceed.

Completion date: To be determined in agreement with the Client.

Agreement

If the Client agrees to the terms and conditions of this proposal, this document can be incorporated into the Client's standard subconsultant agreement.

Submitted by:



Michael Hogan
CRM TECH



Leighton Consulting, Inc.

A Leighton Group Company

October 11, 2022

Proposal No. RC22-444

Moffatt & Nichol
4225 East Conant Street
Long Beach, CA 90808

Attention: Stephanie S. Oslick, AICP, ENV SP

**Subject: Proposal to Perform a Phase I Initial Site Assessment (ISA)/
Environmental Site Assessment (ESA)
Pennsylvania Avenue Grade Separation Project
Beaumont, California**

INTRODUCTION

Leighton Consulting, Inc. (Leighton) is pleased to submit this proposal to conduct a Phase I Initial Site Assessment (ISA) / Environmental Site Assessment (ESA) for the Pennsylvania Avenue Grade Separation Project in the City of Beaumont.

We understand that this site includes a 2,500 foot linear area within 200 feet of the Union Pacific Railroad Right of Way south of Interstate 10. We understand that there are no site access restrictions.

PROPOSED SCOPE OF PHASE I ISA/ESA

This proposed Phase I ISA/ESA will be performed in general accordance with current ASTM "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessments Process*" E 1527-13. In addition, our services will be provided in accordance with "Standards and Practices for All Appropriate Inquiries (AAI) 40CFR Part 312." Leighton will also utilize ASTM E 2600-10 Tier 1 screening as a guide to assess vapor encroachment. More specifically, the following tasks are included in our proposed scope of services:

Records Review

A search of selected government databases will be ordered from an environmental database provider. The report will meet government records search requirements of

E 1527-13 (Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process). The database listings will be reviewed within the specified minimum search distances established by E 1527-13 and AAI. The lists will include:

- **Federal:** NPL, CERCLIS, RCRA, IC/EC Registries, ERNS and
- **State and Tribal:** NPL-equivalent, CERCLIS-equivalent, landfill and/or solid waste disposal sites, leaking storage tank lists, registered storage tank lists, IC/EC control registries, voluntary cleanup sites, and brownfield sites.

We will review reasonably ascertainable historical sources of information that shows the subject site dating back to first developed use, or back to 1940, whichever is earlier. Reviewed resources may include one or more of the following: aerial photographs, fire insurance maps, property tax files, recorded land title records, USGS 15 and/or 7.5-minute USGS topographic maps, local street directories, building department records, zoning/land use records, and other historical sources. We will also review reasonably ascertainable available published local geologic literature to evaluate geologic setting and types of geologic formations beneath this site. Our review will include reasonably ascertainable published information for depths to groundwater, general quality of groundwater under the site, direction of ground water flow and water-bearing lithologies.

If provided to us by you or others, we will also review geotechnical and environmental reports for mention of environmental conditions at this site.

We will contact appropriate city, county, state and federal agencies who may have information regarding the occurrence of hazardous materials/waste at the site, including registered aboveground and underground storage tanks, landfills, contaminated sites, records of emergency release response reports, contaminated public wells. A street address for the subject property is typically required by the city and county agencies in order to review their file. Should it be found that files exist for the subject site, this proposal includes up to four hours for file reviews. If we find that extensive files exist for the subject site or files exist for adjacent properties, we may recommend that a review of agency files may be warranted as part of a supplemental task to this Phase I ISA/ESA for an additional fee.

If provided by the client or others (free of charge), we will review a 50-year Chain of Title document, for names of previous owners of the site and for mention of hazardous materials/waste at the site.

Site Reconnaissance

We will visit the site for an observational reconnaissance to look for exposed and visible indications of environmental conditions. Where safe access is available, we will view inside and outside of onsite structures. This includes observations of the current conditions of the onsite structures, roads, potable water supply, sewage disposal system, hazardous substances and petroleum products, aboveground and underground storage tanks or vent pipes, fill pipes or access ways indicating an underground storage tank, odors, pools of liquid, sumps, drums, polychlorinated biphenyls (PCBs) containing equipment, heating and/or cooling system, stains or corrosion, pits, ponds or lagoons, stained soil or pavement, stressed vegetation, solid waste, wastewater (including clarifiers), wells and dumping. The site reconnaissance will be conducted by a qualified environmental professional as defined in ASTM E 1527-13 and AAI.

Land use of immediately adjacent properties will be visually and/or physically observed and documented and conditions indicative of hazardous materials or potential hazardous materials concerns will be documented, to the extent possible. Current site conditions will be photographed.

Interviews

A reasonable attempt will be made to interview present and/or past owners, lessees, key site manager, occupant, and employees (if they have been identified by the client, and are available and cooperative) for additional information about past and present site usage. The name, addresses, and phone numbers of the current and past owners, and/or lessees, of the subject site needs to be provided by the client. A reasonable attempt will also be made to interview local government officials for information regarding hazardous waste disposal or other environmental issues that may exist at the site.

A Phase I ISA/ESA Owner/Site Contact Interview Form (attached) should be completed by the owner and occupant of this site and returned to us. Information provided on this form is an important part of the Phase I ISA/ESA.

We will interview selected adjacent tenants (if they are available during our site reconnaissance and cooperative) for additional information about past and present site usage.

Report Preparation

Up to three hard copies and one electronic copy of our report summarizing our findings, conclusions, and recommendations will be prepared and submitted to you. The report will state data gaps due to a lack of or inability to obtain information on the site despite Leighton's good faith efforts.

Scope Exclusions and Limitations

The proposed scope does **not** include the following:

- Subsurface exploration and/or testing of any kind,
- Air, water, soil, asbestos or lead-based paint or other media sampling or analyses,
- Investigation for radioactivity, radon or methane gas,
- Investigation for mold, mildew or other biohazards,
- Handling or disposal of hazardous materials,
- Consideration of possible future contamination of the site from adjacent or surrounding facilities or properties, and/or
- Responses to agency comments.

An environmental site assessment cannot wholly eliminate uncertainty regarding potential for recognized environmental conditions (RECs) in connection with a property. Performance of the Phase I ISA/ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property, and this practice recognizes reasonable limits of time and cost.

INFORMATION REQUIRED FROM CLIENT

The current ASTM E 1527-13 Phase I ISA/ESA standards and/or AAI require certain items to be provided by the client. Our fee is contingent upon the following:

- Title and/or judicial record documents must be reviewed by the client for environmental liens or activity and use limitations. Alternatively, Leighton can order an environmental lien search at an additional cost and turnaround time.
- Liens or activity and use limitations due to environmental conditions at the site must be declared to Leighton prior to Leighton conducting the site reconnaissance.

-
- Specialized environmental knowledge or environmental experience on the part of the client especially with regards to environmental conditions at the site must be declared to Leighton prior to Leighton conducting the site reconnaissance.
 - Commonly known or reasonably ascertainable information that the client may be aware of must be declared to Leighton prior to Leighton conducting the site reconnaissance.
 - Special price reductions from the fair market value of the property due to environmental conditions at the site must be declared to Leighton prior to Leighton conducting the site reconnaissance.

We also request you provide the following information, if available:

- **Owner Contact Information:** Name, address and phone number of the current and past owners, and/or lessees, for this site,
- **Owner/Tenant Interview Form:** A *Phase I ISA/ESA Owner/Site Contact Interview Form* completed by the following (if available and cooperative): property owner, property manager, property tenant and/or a person with knowledge of past use of the subject site,
- **User Questionnaire:** A *Phase I ISA/ESA User Questionnaire Form* completed by you (the “user” of the Phase I ISA/ESA),
- **Prior Reports:** Previous geotechnical or environmental reports for this site,
- **Title:** A 50-Year *Chain of Title* document for each parcel this site encompasses, and
- **Plans:** Reproducible or electronic copies of site development plan(s) and/or topographic map with property boundaries (needed prior to the start of our reconnaissance).

Please note that confidential or private reports or drawings of the site cannot be reviewed by us and described in our report, unless they are provided by you.

SCHEDULE

Leighton will provide written updates on potential issues if/when discovered. Assuming we have unhindered access to the site for our reconnaissance, and we receive information requested in the prior section in a timely manner, then our Phase I ISA/ESA report will be issued within 15 to 20 business days following our receipt of written authorization to proceed. It should be noted that some regulatory agencies require up to six weeks to respond to our request for information. Therefore, information received after

our report submittal, which materially changes our conclusions, will be presented to you in an addendum letter.

FEES AND TERMS

Proposed Fixed Fee

Leighton will conduct the described tasks for a fixed fee of **Seven Thousand Nine Hundred Dollars (\$7,900.00)**. If additional field or laboratory services are required, these supplemental services will be provided in accordance with Leighton's current Professional Fee Schedule. We understand that the scope and tasks for this project are not subject to either California or Federal prevailing wage laws.

Leighton will conduct a search for Environmental Liens and Activity Use and Limitations for the subject site as described in ASTM E 1527-13. According to the information provided, one parcel and one owner is associated with the subject site. If additional owners are found during the research of liens, or if the deed documentation has separate deed references (purchased at separate times) or if found to split, additional fees may be incurred that were not included as a part of this proposal.

Terms and Conditions

If our proposed scope, fee, terms and conditions are acceptable to you, please send us a contract for review and a notice to proceed.

CLOSURE

We look forward to working with you on this project. If you have questions regarding our proposal or information that would update our scope of work, please call us at your convenience at **866-LEIGHTON**, directly at the phone extension and/or e-mail address listed below.

Respectfully submitted,

LEIGHTON CONSULTING, INC.



Meredith Church, PG
Principal Geologist
Extension 4208, mchurch@leightongroup.com

MDC/lr

Attachments: Phase I ISA/ESA Owner/Site Contact Interview Form
Phase I ISA/ESA User Questionnaire Form

Distribution: (1) Addressee



Phase I ISA/ESA Owner/Site Contact Interview Form

Interviewee Name:	Title:
Address:	Phone:
Relationship to Property:	
Name of Property Owner:	
Address of Property Owner:	
Site Name:	
Property Address:	
Previous Street Names/Numbers:	
General Business Type/Present Property Use:	
Property Utilization during Ownership:	
Assessor Parcel #:	Grant Total Square Footage:
Total # of Buildings:	Date Built:
Name and Address of Past Owners (include dates of ownership):	
Past Property Uses (include dates):	
Source of Potable Water Supply (municipal/groundwater wells):	
Sewage Disposal (municipal/septic) (provide name of utility):	
Means of Heating/Cooling (gas, electric, heating oil, etc.):	
Fuel Source for Heating/Air Conditioning (provide name of utility):	
Neighboring Property Types (commercial/industrial/residential):	
Current Uses of Adjoining Properties:	North:
	South:
	East:
	West:

ARE THERE NOW, OR HAVE THERE BEEN IN THE PAST, ANY OF THESE ITEMS ONSITE OR ON ADJACENT PROPERTIES:

ITEM	YES	NO	UNK	ADJACENT PROPERTY
• Hazardous Materials				
• Hazardous Waste				
• MSDS Sheets				
• Underground Storage Tanks (USTs)				
• Aboveground Storage Tanks (ASTs)				
• Vent Pipes, fill pipes, or access ways indicating a fill pipe to an underground storage area				
• Odors				
• Drums				
• Electrical or hydraulic equipment known to contain Polychlorinated Biphenyls (PCBs)				
• Stained soil or surfaces				
• Drains				
• Sumps				
• Clarifier				
• Pits, ponds, or lagoons				
• Stressed vegetation				
• Areas for dumping solid waste (landfill)				
• Wastewater				
• Wells (groundwater, oil, and/or gas)				
• Septic Systems				
• Fill Material (if fill material is on site, please state source of fill)				

ADDITIONAL QUESTIONS:	YES	NO	UNK	REMARKS
Has the Site been used as any of the following: gas station, motor repair facility, commercial printing facility, metal plating, dry cleaners, photo developing laboratory, junkyard, or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? If so, state which type of facility.				
Are you aware of any Phase I or Phase II environmental site assessments, soil sampling reports, geotechnical or geologic reports, environmental compliance audit reports, environmental permits, registrations for USTs or ASTs, community right-to-know plans, environmental safety plans or reports regarding hazardous waste generation for the Site?				
Do you know of any notices or correspondence from any government agency relating to past or current violations of environmental laws with respect to the Site or relating to environmental liens encumbering the Site?				
Do you know of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site?				
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?				
Do you know of any environmental concerns associated with the Site? If so please state in remarks column.				
Do you know of any environmental concerns associated with any adjacent or nearby properties? If so please state in remarks column.				

Additional Comments:

Preparer presents that to the best of the preparer's knowledge the above statements and facts are true and correct, and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated.

Signature

Date



Phase I ISA/ESA Users Questionnaire

Project Name:

Complete and Correct Address(es) of the Property and APN(s):

User Company Name:	User Name/Title:
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User Phone/Email:

Interviewee Name and Relationship to Project:

Site Owner:

Reason Phase I is required:

Type of property:

Type of property transaction (e.g., Sale, purchase, exchange):

Any scope of services beyond the ASTM Practice E 1527:

All Parties that will rely on the Phase I report:

Name and Contact Information for Site Contact:

Any special terms or conditions:

Any other pertinent knowledge or experience with the property (e.g., prior reports, documents, correspondence concerning the environmental conditions of the property):

(1). Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law? Yes | No

If Yes, Describe:

(2). Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law? Yes | No

If Yes, Describe:

(3). Specialized knowledge or experience of the person seeking to qualify for the Landowners Liability Protections (LLP) (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the property or the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? Yes | No

If Yes, Describe:

(4). Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 DRF 312.29).

Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

Yes | No

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? Yes | No

If Yes, Describe:

(5). Commonly known or reasonable ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the property that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as user,

(a.) Do you know the past uses of the property? Yes | No

(b.) Do you know of specific chemicals that are present or once were present at the property? Yes | No

(c.) Do you know of spills or other chemical releases that have taken place at the property? Yes | No

(d.) Do you know of any environmental cleanups that have taken place at the property? Yes | No

If Yes, Describe:

(6). The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*? Yes | No

If Yes, Describe:

Signature

Date Signed

Scope of Work

Pennsylvania Avenue Grade Separation Project

Noise Scope of Work

DATE: October 10, 2022

PREPARED FOR: Stephanie Oslick, West Coast Director of Environmental Services, Moffatt & Nichol

PREPARED BY: Michelle A. Jones, Principal Entech Consulting Group

Purpose and Objective

The City of Beaumont proposes to widen Pennsylvania Avenue in the central part of the city along the I-10 corridor from its existing two-lane configuration to four lanes, to accommodate projected growth and current congestion. The portion of Pennsylvania Avenue to be widened is a 2,700-foot-long segment (0.51 miles) from Mile Post 562.64 to 563.50. In addition, there will also be an approximate 2,500-foot shoofly that will be constructed within the Union Pacific Right of Way. The project is required to undergo NEPA/Categorical Exclusion documentation. Therefore, a Noise Study Report (NSR) is required that meets Caltrans requirements, as Caltrans is the Lead Agency for the project. The NSR will summarize the noise analysis results following updated established protocols and guidelines outlined in the Caltrans Local Assistance Procedures Manual, the Caltrans Noise Protocol (April 2020), and the Caltrans TeNS Manual (September 2013).

Scope of Work

Task 1: Project Coordination Caltrans District 8 Noise Staff

Entech Consulting Group will work with Moffat Nichol to obtain concurrence from Caltrans District 8 Oversight staff, the City of Beaumont on model inputs, assumptions, applicable regulatory requirements to evaluate noise impacts, and methodology used for the noise analysis. A noise workplan will be developed to communicate the parameters of the noise study for agency approval. Changes that occur after the approval of the noise study workplan and/or increase the scope of work outlined in this proposal will be considered out of scope and additional budget will be requested to cover changes.

Task 2: Conduct On-Site Monitoring of Sensitive Receptors

A reconnaissance of the area project area will be conducted to determine existing land use activities, developed lands, and undeveloped lands for which development is planned, designed, and programmed, which may be affected by noise from the project. A listing of sensitive receptors and associated noise measurement sites will be provided. The selection of sensitive receptors and noise measurement sites will follow the Caltrans TeNS document's guidance. A review of land development projects in the area will be conducted to determine if these areas have been approved and whether noise abatement will need to be considered as part of this project. One (1) long-term measurement and up to three (3) short-term measurements will be taken to characterize the existing environment and to assist with model calibration.

Task 3: Predictive Noise Modeling

Noise modeling will be conducted to predict current, future no-build, and one (1) build alternative noise levels using the appropriate noise predictive model TNM 2.5. Prediction is based on inputs

such as projected traffic volume (average daily traffic), traffic mix (percentage of truck traffic), topography, and distance of the project from the receptors. The design year's peak hour noise for the proposed project will be modeled at selected noise-sensitive receptors based on forecast traffic volumes. Modeling must be adequate to accurately predict the noise levels at each of the receptors, assess the number of properties within 500 feet of the project that are impacted or will be impacted, and determine the increase in traffic noise. Predicted noise impacts for the future build alternatives will be compared to the future no-build alternative to determine if a noise impact will occur. If a noise impact occurs, noise abatement will be considered.

Task 4: Noise Abatement Evaluation

In accordance with FHWA and Caltrans requirements, noise abatement measures will be considered at locations along the alignment where traffic noise impacts are predicted, if necessary. If traffic noise impacts are predicted at the sensitive receptors, noise abatement measures must be evaluated at these locations. Noise abatement is only considered where frequent human use occurs, and a lowered noise level would be of benefit. A feasible and reasonable analysis will be performed at sensitive receptor locations where a traffic noise impact was predicted. Noise abatement will be evaluated at impacted sensitive receptor locations by varying wall heights until a 5dBA reduction in the future noise level is achieved. Other considerations such as topography, access requirements, other noise sources, and safety considerations will be included as part of the feasible review. Those sensitive receptors that are determined to be feasible will undergo a reasonableness review. During the reasonableness review, the Caltrans design goal of 7 dB will be used to if a recommended barrier can meet at least a 7 dB or noise reduction at one or more of the benefited receptors and meet the requirements of a cost-benefit analysis.

Task 5: Development of the NSR

Entech will prepare a NSR based on the Caltrans annotated outline dated April 2015. The NSR shall be prepared in accordance with Caltrans and FHWA requirements to support the CEQA/NEPA environmental documentation. The NSR shall consider impacts to frequent outdoor use areas, as defined by FHWA.

A Draft Technical Noise report would be developed and circulated to the project team internally electronically for review and comment. The comments from the project team would be incorporated and incorporated into a Draft NSR and would be developed and circulated to Caltrans and the City of Beaumont. It is assumed that Caltrans will review the technical noise report for a completeness review within 5 days of submittal. After the completeness review, Caltrans and the City of Beaumont will provide comments to the project team. Comments received from Caltrans and the City of Beaumont will be reviewed and incorporated and a final version of the NSR will be developed and circulated for Caltrans approval.

Assumptions

Moffatt & Nichol will provide traffic data and design files for the project alternatives.

Moffatt & Nichol will provide mapping of land use zoning info for affected parcels.

Moffatt & Nichol will develop report figures that meet Caltrans mapping requirements for the NSR report.

Moffatt & Nichol will provide MicroStation overlay files using Entech's TNM coordinates to delineate receiver locations, roadway information and other modeling input data (see example).

This scope is limited to one internal team review and **one round** of response to comments from Caltrans District 8 and the City of Beaumont.

Budget

Staff Name	Staff Noise Analyst	Noise Analyst	Principal	Total
Hourly Billing Rate	\$92.38	\$150.00	\$200.19	
Task 1: Coordination with Caltrans District 8 Noise Staff-Workplan Development	0	0	12	\$2,402.28
Task 2: Conduct On-Site Monitoring of Sensitive Receptors	24	0	0	\$2,217.12
Task 3: Predictive Noise Modeling	0	24	0	\$3,600.00
Task 4: Noise abatement evaluation	0	8	0	\$1,200.00
Task 5: Development of the Draft and Final NSR response to comments	0	0	30	\$6,005.70
Subtotal Costs	24	32	42	\$15,425.10
Other Direct Costs				
Sound Level Meter Rental		\$750/meter	2	\$1,500
Travel-mileage				\$100
Total Costs				\$17,025.10

Example Mapping

