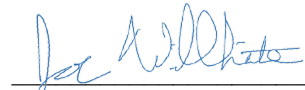


§§§

Executed this _____ day of _____, 2017.

WSP USA, INC.



Joe Willhite, Houston Area Manager, Vice President

CITY OF LEAGUE CITY

John Baumgartner, City Manager

ATTEST:

Diana Stapp, City Secretary

APPROVED AS TO FORM:

Nghiem V. Doan, City Attorney



**LANDING BOULEVARD EXTENSION
FROM FM 518 TO I-45
CSJ NO: 912-00-519
SUPPLEMENTAL NO. 3**

I. SCHEMATIC DESIGN SERVICES

The work to be performed shall consist of providing professional services required for the continuation of management for the project, revising and updating the schematic design, preliminary engineering report (PER) including the 30% plans, and cost estimate as needed to complete the preliminary schematic design portion of the process. All work to be performed under this work authorization shall be subject to review and approval by the City of League City and the Texas Department of Transportation (TxDOT).

The anticipated project management and schematic design work is described below according to each task to be performed.

A. PROJECT MANAGEMENT

WSP shall continue to provide project management services that include the following:

- Project schedule development and schedule updates as necessary.
- Task and budget management during the remainder of Phase I of the project.
- Attend monthly project status meetings with the City of League City.
- Subconsultant management.

B. MEETINGS & COORDINATION

It is assumed that coordination with the Texas State Historic Preservation Officer, Texas Parks and Wildlife Department (TPWD), and Texas Commission on Environmental Quality (TCEQ) shall be conducted by TxDOT per their Memoranda of Understanding (MOUs) with those organizations.

WSP shall coordinate and when needed, facilitate coordination with permitting agencies including but not limited to the United States Coast Guard (USCG), Texas General Land Office, US Army Corps of Engineers (USACE), Houston-Galveston Area Council (H-GAC), Galveston and Harris County Historical Commissions, TxDOT and the City of Webster. It is assumed that coordination shall primarily occur over the phone and via email.

Deliverables:

- Draft & Final Meeting Notes and Sign-in Sheets (PDF format)



C. SCHEMATIC DESIGN/REVISION/UPDATE

WSP shall revise the current schematic design, including updating planimetrics, horizontal and vertical alignments, and right-of-way (ROW) base files as necessary, to address the following design changes:

- Incorporate a roundabout approximately 1500 feet west of the proposed intersection of Landing Boulevard and I-45; and
- Recommended changes from the City of League City and/or TxDOT concerning potential property impacts and to address comments from the March 2017 public meeting.

WSP shall revisit the private utility coordination previously performed on the project and coordinate with the utilities to determine a preliminary cost associated with the potential relocation of utilities.

- Work shall include the development of a utility relocation cost estimate based on the private utility coordination efforts associated with the project.

WSP shall revisit the body of the preliminary engineering report (PER) and revise it as necessary to match and adhere to any updates performed on the schematic.

WSP shall revisit the 30% plan sheets and revise the following sections as necessary:

- Roadway (Minor Alignment Adjustments/Inclusion of Roundabout)
- Drainage
- Signing and Pavement Markings
- Illumination
- SWPPP

Deliverables:

- Draft Schematic Roll Plot (PDF format)
- Schematic Comment Response Matrix (MS Word and PDF formats)
- Final Schematic Roll Plot (PDF format)
- Revised Draft PER Report & Attachments (PDF format)
- PER Comment Response Matrix (MS Word and PDF formats)
- Final Revised PER & Attachments (PD format)
- 30% Plan Set (PDF format)

II. ENVIRONMENTAL SERVICES

The environmental services to be performed shall consist of providing professional services required to complete the Environmental Assessment (EA), obtain a Finding of No Significant Impact (FONSI) for the extension of Landing Boulevard in League City, Galveston and Harris Counties, and to



complete the necessary federal permitting requirements. All environmental services performed under this work authorization shall be subject to review and approval by the City of League City and the Texas Department of Transportation (TxDOT).

The EA work required is described below according to each task to be performed.

A. Technical Report Updates

1. Noise Analysis

WSP shall revise the traffic noise analysis to account for changes in the design of the horizontal alignment. The revised noise analysis shall be performed (using FHWA's Traffic Noise Model version 2.5). The analysis shall include modeling existing and predicted (year 2040) noise levels and the consideration and evaluation of noise mitigation (if necessary) in accordance with the current version of TxDOT's *Guidelines for Analysis and Abatement of Highway Traffic Noise*.

The EA summary of the traffic noise impact analysis shall be revised accordingly, to reflect the results of the new analysis. Exhibits and tables shall be revised as necessary to explain the results, identifying noise modeling locations, existing and predicted noise levels, changes in peak hour Leq noise levels, noise contours, and possible mitigation measures. If mitigation measures are required, a noise barrier analysis shall be performed within the existing and proposed ROW to determine if noise barriers are considered reasonable and feasible.

Deliverables:

- Draft Traffic Noise Technical Report (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final Traffic Noise Technical Report (PDF format)
- TNM input and output data files (provide electronic files)

2. Indirect & Cumulative Impacts

A draft Indirect and Cumulative Impact (ICI) Assessment has been conducted for this project. WSP shall revise the ICI technical report into two separate reports—Induced Development Analysis and Cumulative Impact Assessment—per current TxDOT guidance.

Induced Development Analysis

Indirect encroachment-alteration impacts to resources shall be covered in the individual resource analyses or in the EA per current TxDOT guidance. The Induced Development Analysis shall be updated as needed with recent data or trends or changes in existing conditions since completion of the draft ICI report that could affect the analysis. Project description shall be updated.

Cumulative Impact Assessment



A Cumulative Impact Assessment Technical Report shall be compiled from the draft ICI report per current TxDOT guidance. Recent changes in reasonably foreseeable actions or relevant plans since completion of the draft ICI report that could affect the cumulative impact analysis shall be incorporated into the assessment. Project description shall be updated.

Deliverables:

- Induced Development Assessment
- Draft Induced Development Analysis Technical Report (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final Induced Development Analysis Technical Report (PDF format)
- Cumulative Impact Assessment
- Draft Cumulative Impact Assessment Technical Report (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final Cumulative Impact Assessment Technical Report (PDF format)

3. Air Quality

The qualitative mobile source air toxic (MSAT) analysis has been conducted per FHWA guidelines, has been documented in a draft Air Quality Technical Report and shall be revised to be consistent with latest TxDOT standards and account for changes in the project description, including updating the references to projected traffic (year 2040). The schematic revisions shall not affect the findings of the qualitative assessment.

Deliverables:

- Draft Air Quality Technical Report (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final Air Quality Technical Report (PDF format)

4. Community Impact Assessment

WSP shall complete the new TxDOT Community Impact Assessment Report Form. Updated American Community Survey data from the Census Bureau shall be collected, tabulated, and appended to the form, along with corresponding maps. This shall provide the basis for revising this section of the EA. The Community Impact Assessment Report Form and EA section shall incorporate all community facilities identified on the project Environmental Constraints Map.

Deliverables:

- Draft Community Impact Assessment Report Form & Attachments (PDF format)



- Comment Response Matrix (MS Word & PDF format)
- Final Community Impact Assessment Report Form & Attachments (PDF format)

5. Visual Impacts

WSP shall conduct the appropriate level of visual impact assessment (VIA) per the Federal Highway Administration's (FHWA) 2015 guidance. This is anticipated to be a VIA memorandum to the project file or an abbreviated VIA in a brief technical report. The results of the VIA shall be summarized in the EA.

Deliverables:

- Draft VIA Memorandum (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final VIA Memorandum (PDF format)

6. Architectural Historic Resources Survey

A draft preliminary coordination request for historic resources (PCR) has been completed for this project and shall be revised by WSP to account for the 300-foot area of potential effect (APE) and changes in parcels affected and proposed ROW for documentation in the PCR. Previous research for the PCR indicated no historic age bridges in the project area and county appraisal district records indicate no historic age structures lie within 300 feet of the proposed alignment. Historic age for this project is considered to be 1974 or earlier. It is not anticipated that an architectural historic resources survey shall be required.

Deliverables:

- Draft PCR (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final PCR (PDF format)

7. Cultural Resources Survey

See scope from Moore Archeological Consulting attached.

8. Biological Evaluation

WSP shall complete the most recent TxDOT Biological Evaluation Form (BEF) and Tier I Site Assessment using the most recent ROW and roadway alignment. Impacts shall be recalculated using the area affected by the proposed ROW, for the entire project area. An electronic draft shall be submitted to the City of League City and TxDOT for review. Comments shall be incorporated



and addressed and the BEF and Tier I Site Assessment shall be resubmitted. The updated documentation shall meet the requirements for TPWD MOU Tier II Site Assessment.

Deliverables:

- Draft BE Form, Tier I Site Assessment & Attachments (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final BE Form, Tier I Site Assessment & Attachments (PDF format)

9. Water Resources Technical Report

A jurisdictional delineation site visit was completed in October 2015 and a draft Wetland Delineation Report was completed in November 2015. WSP shall update the Water Resources Technical Report to comply with the latest TxDOT standard. Impacts shall be recalculated using the area affected by the proposed ROW, for the entire project area. WSP shall review current database information, including but not limited to the Federal Emergency Management Agency (FEMA) floodplain database, and United States Geologic Survey (USGS) topographic maps, and data from one additional site visit to confirm/determine the presence of Section 404/401 wetlands and Section 10 waterbodies on the subject property.

The report shall include recommendations for further agency coordination including but not limited to, USACE 401/404/10 Permitting, Consistency with Texas Coastal Management Program, and/or Texas Commission on Environmental Quality (TCEQ).

An electronic draft shall be submitted to the City of League City and TxDOT for review. Comments shall be incorporated and addressed and the Water Resources Technical Report shall be resubmitted.

Relevant discussion shall be updated in the EA to address: Executive Order 11990 (Wetlands), the Rivers and Harbors Act, Clean Water Act Section 303(d), Clean Water Act Section 402, floodplains, Coastal Barrier Resources, Coastal Zone Management, and drinking water systems.

Deliverables:

- Draft Water Resources Technical Report & Attachments (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final Water Resources Technical Report & Attachments (PDF format)

10. Hazardous Materials Initial Site Assessment

A Phase I Environmental Site Assessment (ESA) has been conducted for this project and documented in a draft report dated November 2015. WSP shall complete a Hazardous Materials Initial Site Assessment (ISA) to comply with the latest TxDOT standards. WSP shall use the database search results completed for the November 2015 ESA to complete the ISA.



The ISA for the project shall determine the potential for encountering hazardous materials in the proposed project ROW, including possible environmental liability, increased handling requirements (e.g. soil or groundwater), and potential construction worker health and safety issues. The ISA shall satisfy relevant, current environmental compliance requirements. WSP shall review available environmental databases, historic United States Geological Survey (USGS) topographic maps, and historic aerial photographs. One site visit shall be conducted and observations shall be documented in photographs of potential recognized environmental concerns (RECs) that may affect the proposed project ROW. The completed ISA shall include, as applicable, full copies of list search reports, maps depicting locations, copies of agency file information, photographs, recommendations, and any other supporting information gathered to complete the ISA. An electronic draft shall be submitted for review. Review comments shall be incorporated and addressed and the revised ISA shall be resubmitted.

Deliverables:

- Draft ISA & Attachments (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final ISA & Attachments (PDF format)

11. Section 4(f)

It is anticipated that impacts on public lands subject to Section 4(f) of the Department of Transportation Act (parks, recreation areas or wildlife/waterfowl refuges) shall qualify as *de minimis* impacts under 23 CFR 774. WSP shall document Section 4(f) *de minimis* impacts per TxDOT guidance and 23 CFR 774 and shall coordinate with the City of League City (and Harris County, if necessary) to document concurrence with *de minimis* impact findings.

WSP shall obtain confirmation from the City of League City that the Harris County property at Clear Creek, just before entering the Harris County Flood Control District (HCFCD) ROW is not part of Challenger Park.

Deliverables:

- Draft Section 4(f) *de minimis* Checklist (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final Section 4(f) *de minimis* Checklist (PDF format)

B. Right-of-Entry

WSP shall seek right-of-entry (ROE) from public and private land owners to perform environmental services along the proposed ROW. WSP shall certify mail ROE requests and maintain an Excel log and GIS map of the ROE status. ROE permission shall be sought from the land owner and shall not be considered granted unless signed by the landowner or authorized party. WSP shall develop letter and supplemental information for seeking ROE, which must contain explicitly reference to the kinds of



activities for which ROE is requested and an indication of the impacts (if any) that shall result from the performance of environmental services.

The ROE shall be used for the completion of the archeological survey.

Deliverables:

- Draft ROE Letter (PDF & MS Word format)
- Final ROE Letter (PDF & MS Word format)
- ROE status map and Excel Log (PDF & Excel format)

C. Environmental Assessment

1. Project Consistency

WSP shall coordinate with H-GAC and the City of League City to update the relevant project information and schedule in the Regional Transportation Plan (RTP), Transportation Improvement Program (TIP), and the Statewide Transportation Improvement Program (STIP). WSP will assist the City of League City in drafting the letter to H-GAC summarizing the project updates.

Additionally, WSP shall coordinate with H-GAC to determine the traffic volumes for the no-build and build future year (2040) conditions that are included in the current 2040 conformity travel demand model. These volumes will be used to update the purpose and need statement, the air quality analysis, and the traffic noise analysis. WSP shall prepare a methodology for the use of the 2040 H-GAC projections in the environmental documents.

Deliverables:

- Traffic projection methodology (MS Word format)
- Updated 2040 traffic projections (PDF & MS Word format)
- Draft H-GAC Letter for RTP/TIP updates (MS Word format)

2. Environmental Assessment

The draft Environmental Assessment (EA) prepared by WSP shall be revised to incorporate the design changes into the project description, with the appropriately updated maps, exhibits and schematic/typical sections, and the findings of the revised technical studies and reports. The EA shall also be reformatted to match TxDOT's latest EA outline. The EA content shall be revised to update discussion of other resources and impacts for which technical reports were not required.

WSP shall respond to two iterations of comments from the TxDOT Houston District and two iterations of comments from TxDOT Environmental Affairs Division (ENV) and revise the draft EA accordingly. The draft EA shall be resubmitted after revisions in response to District comments and again after revisions in response to ENV comments. The EA shall be submitted to TxDOT



electronically in PDF format with the files and comment/response correspondence copied to the City with each resubmittal.

The Final EA will be circulated and available for comment for 30-days, per TxDOT requirements. Upon completion of the notice period, the Finding of No Significant Impact (FONSI) will be prepared and circulated for review, comment and approval.

Deliverables:

- Draft Environmental Assessment & Attachments (PDF format) (Up to 2 draft iterations)
- Comment Response Matrix (MS Word & PDF format) (Up to 2 completed comment response matrices)
- Final Environmental Assessment & Attachments (PDF format)
- Draft FONSI (PDF format)
- Final FONSI (PDF format)

D. Public Involvement

WSP shall provide notice and hold one (1) public hearing for the proposed project in accordance with TxDOT's Chapter 26 requirements. The hearing required by Chapter 26 will be combined with a hearing on the draft EA and will be held in accordance with TxDOT's Chapter 26 requirements and the public hearing requirements as defined in the *TxDOT Environmental Handbook: Public Involvement*.

The following tasks shall be performed:

- A mailing list of elected officials shall be compiled, and an elected official letter, including a project map, shall be prepared for review by TxDOT and the City. Upon approval, these letters shall be mailed out in accordance with TxDOT requirements.
- A mailing list of adjacent property owners shall be compiled, and an adjacent property owner letter, including a project map shall be prepared in English and Spanish for review by TxDOT and the City. Upon approval, these letters shall be mailed in accordance with TxDOT requirements.
- As required by Chapter 26, notice shall be given in writing to the person, organization, department, or agency that has supervision of the land proposed to be used or taken (3 PWC 26.002(a)) at least 30 days before the date of the public hearing.
- A legal notice of the public hearing shall be prepared in English and Spanish for review by TxDOT and the City. Upon approval, the notice of the hearing shall be published in the *Houston Chronicle* once a week for three consecutive weeks, with the last day of publication not less than one week or more than two weeks before the date of the hearing as required by Chapter 26. The notice of the public hearing shall also be posted in the *Bay Area Citizen* and *La Voz* per TxDOT requirements.
- Potential hearing locations shall be researched; facilities shall be secured and, logistics with the facility manager shall be arranged; equipment needs shall be fulfilled; sign-in sheets shall be prepared; comment forms shall be prepared; and pre-printed nametags for TxDOT, City,



WSP and subconsultant staff attending the hearing shall be printed. Information and directional signs shall be provided.

- Three (3) coordination meetings and a dress rehearsal with TxDOT, the City, and subconsultant staff shall be held in advance of the hearing to brief managers and attending staff.
- An information handout/newsletter shall be created to be distributed at the public hearing along with display materials/stations to be displayed at the public hearing.
- Constraint maps shall be printed to a large scale for display at the hearing.
- Assistance shall be provided in conducting the hearing; comment card collection baskets shall be provided, along with public hearing supplies; hearing flow, set-up, and take down shall be coordinated.
- WSP and subconsultant staff at the registration table shall be provided, and WSP/subconsultant staff members shall be provided to assist TxDOT and City staff in responding to questions. A court reporter shall be provided.
- The hearing shall be documented with photographs.
- A Public Hearing Summary Report (PHSR) shall be prepared, describing the public comments, including the mailing list, sign-in sheets, handout materials, court reporter's report, and selected representative color photographs to document the public hearing. The PHSR shall also include responses to public comments.
 - **WSP assumes that Spanish language translation shall be required for the public hearing. All printed and/or published materials created as part of the Public Involvement (PI) portion of this proposal shall be provided in both English and Spanish. If desired and requested in writing by a member of the public, a translator can be provided for the public hearing at additional cost.**

Deliverables:

- Draft & Final Public Hearing Notices & Letters
- Draft & Final Public Hearing Presentation
- Draft & Final Public Hearing Materials: handouts, exhibit boards, schematic roll plots
- Draft Public Hearing Summary Report & Attachments (PDF format)
- Comment Response Matrix (MS Word & PDF format)
- Final Public Hearing Summary Report & Attachments (PDF format)

E. Chapter 26 Texas Parks and Wildlife Code Documentation

Due to the potential impacts to Myrtle Park associated with the Preferred Alternative, WSP shall conduct a Texas Parks and Wildlife Code (TPWC) Chapter 26 evaluation. Documentation shall be completed for compliance with TPWC Chapter 26, as outlined in the TxDOT ENV Handbook: Chapter 26, Parks and Wildlife Code. Documentation shall include:



- Chapter 26 Parks and Wildlife Code Checklist
- Section in the EA addressing the following criteria:
 - A brief explanation stating the reasons Chapter 26 applies to the project
 - A brief summary of the public hearing held to comply with Chapter 26, any public input received at that hearing, and League City/TxDOT's response to that public input.
 - An affirmative statement of the two required findings, stated verbatim as they appear in the statute and using the following statement: *TxDOT determined that there is no feasible and prudent alternative to the use or taking of Chapter 26 protected land, and the Landing Boulevard Extension includes all reasonable planning to minimize harm to the land as a park, resulting from the use or taking.*
 - A justification supporting each of the two findings, which can incorporate other sections of the environmental review document or other written materials retained in the project file by reference

The Public Hearing task stated above shall comply with Chapter 26 requirements.

Deliverables:

- Draft TPWC Chapter 26 Section of the EA (MS Word and PDF Formats)
- Final TPWC Chapter 26 Section of the EA (MS Word and PDF Formats)

F. Permitting

USACE Section 404/401/10 Permitting

WSP assumes that construction activities will require authorization from the USACE under Section 401/404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act (RHA).

Based on proposed project impacts and data from previously delineated features, WSP assumes the following:

- Project will require a Section 10/404 Individual Permit (IP) from the USACE Galveston District;
- Authorization for the proposed construction activities will require a water quality certification from the TCEQ pursuant to Section 401 of the CWA; and
- Section 401 certification will occur concurrently with Section 10/404 permitting through coordination with the USACE.

1. USACE Jurisdictional Determination

TxDOT may request a Preliminary Jurisdictional Determination (PJD), which assumes that all aquatic features in the proposed project area are jurisdictional. Due to the presence of potentially non-jurisdictional aquatic features identified in the previous study, WSP assumes that TxDOT



shall choose to pursue an Approved Jurisdictional Determination (AJD). An AJD includes a review and ruling from the USACE regarding the jurisdiction of wetlands and waterbodies in the affected project area under the CWA. Upon approval from the City and TxDOT, WSP shall submit a request for an AJD for the wetlands and waterbodies located in the project ROW. The letter request will include a hardcopy of the Water Resources Technical Report, datasheets, supporting documents, and a CD containing the shapefiles of the features delineated on the subject property.

This jurisdictional determination is separate and apart from the Section 404 permitting process, and this must be obtained before a permit may be granted by the USACE. Unlike the permitting process, the AJD process is not restrained by specific, mandated timelines. An AJD is prepared by the USACE based on information provided in the request. The USACE verification is valid for 5 years from the date of issuance. This verification may be conducted from their offices (desk audit) or performed in the field at the proposed project location. Due to the nature of the proposed project, WSP assumes the USACE will conduct a field investigation.

WSP shall coordinate with the USACE Galveston District to set up a site visit for an AJD. WSP shall attend the site visit with the USACE to expedite any requests for clarification on-site. It is assumed that one USACE verification meeting will be required that will last no longer than one nine-hour day. If revisions are requested based on the field verification, WSP shall provide the updated information to the USACE in a timely manner.

Deliverables:

- Draft AJD, Attachments, and Supporting Files (MS Word, PDF, SHP Formats)
- Comment Response Matrix (MS Word and PDF Formats)
- Final AJD, Attachments, and Supporting Files (MS Word, PDF, SHP Formats)

2. Preparation of IP Application

For complex projects requiring an IP, the USACE Galveston District recommends a pre-application meeting. WSP shall facilitate this meeting between the City and the USACE. WSP shall create figures and visual aids to clearly represent the proposed project impacts, and represent the purpose and need of the project. WSP assumes that only one pre-application meeting at the USACE Galveston District office lasting no more than two hours will be required.

Following the USACE pre-application meeting, WSP shall prepare an IP application for the proposed project including:

- A description of the proposed project
- The purpose and need for the proposed project
- A description of the existing natural resources on the site



- A discussion of alternatives considered during the design of the project detailing minimization and avoidance measures implemented regarding impacts to Waters of the United States (WOUS)
- A detailed breakdown of the unavoidable impacts to WOUS, including wetlands and any other special aquatic sites
- A discussion of BMPs to be implemented
- A brief discussion of potential compensatory mitigation that may be proposed
- Permit exhibits including vicinity maps and plan and profile drawings of the proposed work
- Water Resource Technical Report
- BE Form and Attachments
- Cultural Resources Technical Report and THC Concurrence
- TCEQ Tier I/II certification documentation (see details below)
- A Section 404(b)(1) environmental evaluation for dredge or fill material
- An application for Consistency with Texas Coastal Management Program Response to Public Comments

Once the required 30-day public comment period is complete, the USACE will provide all comments to WSP. Following receipt of public comments, WSP shall evaluate the comments and respond to public comments within 30 days of receipt from the USACE. WSP assumes that two rounds of responses to public comments will be required. Additional requests, provided they are not considered consultant errors, can be accomplished at an additional cost.

Deliverables:

- Draft & Final Pre-application meeting materials (PDF Format)
- Draft & Final Pre-application meeting notes (PDF Format)
- Draft IP Application & Attachments (PDF Format)
- Comment Response Matrix (PDF and MS Word Format)
- Final IP Application & Attachments (PDF Format)

3. Ecological Modeling and Mitigation Plan Development

The ecological model preferred by the USACE Galveston District for wetlands is the interim Hydrogeomorphic Model (iHGM) and the Level 1: Galveston District Stream Condition Assessment for stream impacts less than 500 feet in length. These models are used to assess and compare the function and values of aquatic features based on physical, biological, and chemical functions. WSP shall obtain data for the ecological modeling by incorporating specifications from publically available information including, but not limited to aerial photographs, USGS topographic quadrangle maps, FEMA floodplain maps, and other reference materials with



data collected on the subject property. This information combined with proposed impacts will provide a baseline to determine the amount of mitigation that will be required.

Under this proposal, WSP shall assess no more than a total of 12 iHGM data points and 3 stream assessment transects per waterbody will be required. The datasheets will be filled out using Microsoft Excel. WSP shall provide the results of the ecological modeling in a letter report.

WSP assumes that wetland mitigation shall be required for the proposed project. The ecological modeling data will determine the amount of functional lift needed to compensate for the function and values lost due to proposed impacts to jurisdictional aquatic features. A mitigation plan shall need to be created to adequately describe how the functions and values of the impacted wetlands will be replaced. There are two methods of mitigation that can be pursued: purchasing credits from a mitigation bank (if one is available) or permittee responsible mitigation (PRM). The USACE Galveston District prefers using mitigation bank credits, therefore WSP assumes that this project will mitigate jurisdictional losses with the purchase of mitigation bank credits. WSP shall facilitate the purchase of these credits by identifying mitigation banks within the primary or secondary service area of the subject property that have credits available for purchase. WSP shall provide the mitigation bank with the Water Technical Report, AJD, and Ecological Modeling Report. WSP shall draft a letter requesting the appropriate number of credits to be held on behalf of the City for purchase upon receipt of the IP from the USACE.

Deliverables:

- Draft Mitigation Plan & Attachments (PDF Format)
- Comment Response Matrix (MS Word and PDF Formats)
- Final Mitigation Plan & Attachments (PDF Format)

4. United States Coast Guard (USCG) Section 9 Permitting

WSP assumes that a USCG Section 9 Permit will be required for the construction of the bridge over Clear Creek (a navigable waterway). WSP shall consult with the USCG to obtain a USCG concurrent on navigability and permitting needs for a USCG Bridge Permit and shall provide the City with documentation of consultation. WSP shall prepare and submit the USCG bridge permit application and address public comments received during the public notice period. Any additional comments, coordination and support or preparation for the Findings of Fact required shall be completed by WSP.

WSP shall plan, prepare and conduct a pre-application meeting with the USCG to discuss the proposed project, alternative concepts, schedule and navigation issues to assist in project planning future permit coordination.

Deliverables:

- Draft & Final Pre-application meeting materials (PDF Format)



- Draft & Final Pre-application meeting notes (PDF Format)
- Draft USCG Bridge Permit Application & Attachments (PDF Format)
- Comment Response Matrix (PDF and MS Word Format)
- Final USCG Bridge Permit Application & Attachments (PDF Format)

WSP USA INC.
STAFFING PLAN AND BUDGET WORKSHEET
LANDING BOULEVARD - FROM FM 518 TO IH 45

Rate	Classification																	Total	
	Principal	Project Manager	Supervising Eng	Project Engineer	EIT	Lead CADD	Sr Superv Planner	Lead Env Planner	Lead Planner	Permitting Specialist	Planner IV	Noise Specialist	Noise Specialist	CADD Tech	GIS Technician	PI Specialist			
	\$299.87	\$239.89	\$173.36	\$153.26	\$90.12	\$140.46	\$183.73	\$137.02	\$139.35	\$108.64	\$116.42	\$116.12	\$159.42	\$143.34	\$76.81	\$107.91			
Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Cost	
I. SCHEMATIC DESIGN SERVICES																			
A. Project Management																			
Task and Budget Management							24										24	\$4,409.52	
Monthly Project Status Meeting			24	24			48	12									108	\$18,302.16	
Subconsultant Coordination							12										12	\$2,204.76	
Subtotal Task	0	0	24	24	0	0	84	12	0	0	0	0	0	0	0	0	144	\$24,916.44	
B. Meetings and Coordination																			
Agency Coord (H-GAC, Webster,etc.)	0			20		0	40	20								8	88	\$14,018.08	
Subtotal Task	0	0	0	20	0	0	40	20	0	0	0	0	0	0	0	8	88	\$14,018.08	
C. Schematic Design Updates																			
Schematic Revision (Roundabout)		2	12	16	40	20											90	\$11,426.26	
Schematic Revision (Alignment Adjustment)		2	12	16	40	20											90	\$11,426.26	
Additional Private Utility Coordination		2	16	40	80												138	\$16,593.54	
PER Update (Body of Report)		2	12	40	20		8										82	\$11,962.74	
30% Plan Update (Roundabout)		2	12	16	40	20											90	\$11,426.26	
30% Plan Update (Alignment Adjustment)		2	12	16	40	20											90	\$11,426.26	
30% Plan Revision (Drainage Adjustment)		2	12	16	40	20											90	\$11,426.26	
30% Plan Revision (SPM Adjustment)		2	4	8	20	10											44	\$5,606.30	
30% Plan Revision (Illumination Adjustment)		2	4	8	20	10											44	\$5,606.30	
30% Plan Revision (SWPPP Adjustment)		2	4	8	20	10											44	\$5,606.30	
Subtotal Task	0	20	100	184	360	130	8	0	0	0	0	0	0	0	0	0	802	\$102,506.48	
II. ENVIRONMENTAL SERVICES																			
A. Tech Report Updates																			
Revise Noise Tech Report					4		4					16	4		4		32	\$3,898.24	
Update traffic projections to year 2040							8								8		16	\$2,084.32	
Revise ICI Tech Report							2	0	8		24				4		38	\$4,583.58	
Revise Air Quality Report							2				8						10	\$1,298.82	
Revise Community Impact Assessment							2	12							8		22	\$2,626.18	
Visual Impact Assessment							2	16									18	\$2,559.78	
Revise PCR							2	8								4	14	\$1,770.86	
Cultural Resources Survey							2		4						4		10	\$1,232.10	
Develop BE Form and Tier 1 Certification							2			24	0				16		42	\$4,203.78	
Revise Water Resources Tech Report							2	0		16	16				16		50	\$5,197.38	
HazMat ISA							2	16							8		26	\$3,174.26	
Subtotal Task	0	0	0	0	4	0	30	52	12	40	48	16	4	0	72	0	278	\$32,629.30	
B. Right-of-Entry																			
Obtain ROE							4	16							8		28	\$3,541.72	
Subtotal Task	0	0	0	0	0	0	4	16	0	0	0	0	0	0	8	0	28	\$3,541.72	
C. Environmental Assessment																			
Project consistency/H-GAC Coordination							8	4									12	\$2,017.92	
Reformat EA to current standards & update per tech report revisions							12	24			40				24		100	\$11,993.48	
Address comments on EA							8	12	4		24	4			8		60	\$7,544.52	
Finalize EA							4	8			12				4		28	\$3,535.36	
Subtotal Task	0	0	0	0	0	0	32	48	4	0	76	4	0	0	36	0	200	\$25,091.28	
D. Public Involvement																			
Public Hearing Prep & Attendance							40	80	0	0	0			8	40	60	228	\$29,004.52	
Public Hearing Summary Report							20	40									60	\$9,155.40	
Address comments/revisions							20	12	0	0	0			4			36	\$5,892.20	
Subtotal Task	0	0	0	0	0	0	80	132	0	0	0	0	0	12	40	60	324	\$44,052.12	
E. Chapter 26																			
Documentation & coordination							2	16	0	0	0			0	4		22	\$2,867.02	
Address comments/revisions							1	8	0	0	0			0			9	\$1,279.89	
Subtotal Task	0	0	0	0	0	0	3	24	0	0	0	0	0	0	4	0	31	\$4,146.91	

Fee not included in supplemental

Fee not included in supplemental

Fee not included in supplemental

Fee not included in supplemental

STAFFING PLAN AND BUDGET WORKSHEET
LANDING BOULEVARD - FROM FM 518 TO IH 45

Rate	Classification																	
	Principal	Project Manager	Supervising Eng	Project Engineer	EIT	Lead CADD	Sr Superv Planner	Lead Env Planner	Lead Planner	Permitting Specialist	Planner IV	Noise Specialist	Noise Specialist	CADD Tech	GIS Technician	PI Specialist		
	\$299.87	\$239.89	\$173.36	\$153.26	\$90.12	\$140.46	\$183.73	\$137.02	\$139.35	\$108.64	\$116.42	\$116.12	\$159.42	\$143.34	\$76.81	\$107.91	Total	
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Cost
F. Permitting																		
USACE JD							20		0	24	24				16		84	\$10,305.00
USACE 404/10 IP				8			24		0	40	80				40		192	\$22,367.20
Wetland Mitigation Plan							24		0	40	80				24		168	\$19,912.16
USCG Section 9				8	8		24		0	40	64				24		168	\$19,996.48
Subtotal Task	0	0	0	16	8	0	92	0	0	144	248	0	0	0	104	0	612	\$72,580.84
Total Hours and Labor Cost	0	20	124	244	372	130	373	304	16	184	372	20	4	12	264	68	2,507	\$323,483.17
ODCs (Mileage, Printing, additional Chapter 26 legal notice requirements)																		\$14,008.16
TOTAL COST																		\$337,491.33

Task	Total Effort to Complete Env	Total Fee for Supplemental	Remaining Contract Value	Supplemental Agreement No. 3
Schematic/Design Changes				
Schematic/Design Changes	\$102,506.48	\$0.00		
Subtotal	\$102,506.48	\$0.00		
Env. Tasks Out of Scope				
ROE	\$3,541.72	\$3,541.72		
Chapter 26	\$4,146.91	\$4,146.91		
Permitting	\$72,580.84	\$72,580.84		
Subtotal	\$80,269.47	\$80,269.47		
Public Involvement				
Public Hearing & Documentation	\$44,052.12	\$0.00		
Subtotal	\$44,052.12	\$0.00		
NEPA Delegation/TxDOT Requirements				
Tech Report Updates	\$32,629.30	\$32,629.30		
EA Updates	\$25,091.28	\$0.00		
Subtotal	\$57,720.58	\$32,629.30		
Project Management				
Project Management	\$24,916.44	\$0.00		
Coordination	\$14,018.08	\$14,018.08		
Subtotal	\$38,934.52	\$14,018.08		
WSP Labor	\$323,483.17	\$126,916.85		
ODC	\$14,008.16	\$14,008.16		
Total	\$337,491.33	\$140,925.01	\$78,252.94	\$62,672.07

Other Direct Costs	Unit	Unit Cost	Quantity	Total
Mileage	Miles	\$0.54	1500	\$810.00
Court Reporter (Public Hearing)	Day	\$450.00	1	\$450.00
Court Reporter (Transcription)	Page	\$10.00	10	\$100.00
Certified Letter	Each	\$6.59	24	\$158.16
Presentation Boards 30" X 40" Color Mounted	Each	\$80.00	8	\$640.00
Public Notices Mass Mailing	Each	\$500.00	1	\$500.00
Law Enforcement Officer	Hour	\$50.00	4	\$200.00
Newspaper Legal Advertisement	Per publication	\$500.00	12	\$6,000.00
GPS/Trimble Rental	Day	\$120.00	3	\$360.00
Directional Signage	Each	\$100.00	4	\$400.00
Public Involvement Facility Rental	event	\$1,650.00	1	\$1,650.00
Audio - Visual Equipment Rental	station	\$550.00	1	\$550.00
Public Hearing Handouts (B/W 8.5x11)	Each	\$0.10	400	\$40.00
Public Hearing Handouts (Color 8.5x11)	Each	\$0.50	200	\$100.00
Hearing Supplies	Event	\$50.00	1	\$50.00
Interpreter	Hour	\$400.00	4	\$1,600.00
Spanish Translation Service	Event	400	1	\$400.00
TOTAL				\$14,008.16