

STATE OF TEXAS

COUNTY OF FORT BEND

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KNOW ALL MEN BY THESE PRESENTS:

**AMENDMENT TO PROFESSIONAL ENVIRONMENTAL & PRELIMINARY
ENGINEERING SERVICES AGREEMENT**

THIS FIRST AMENDMENT is made and entered into by and between Fort Bend County, a body corporate and politic of the State of Texas, acting by and through the Fort Bend County Commissioners Court (hereinafter referred to as “County”) and IDC, INC., (hereinafter referred to as “Engineer,”) authorized to conduct business in the State of Texas.

RECITALS

WHEREAS, on or about February 26, 2013, County and Engineer entered into a Professional Environmental & Preliminary Engineering Services Agreement, (hereinafter referred to as the "Agreement"), for services relating to improvements to Crabb River Road (FM 2759/FM 762) located in Fort Bend County, Texas; and,

WHEREAS, County and Engineer desire to amend said Agreement for additional engineering and environmental services based on requirements of Texas Department of Transportation, pursuant to SOO 14-025 and, extend the deadline for completion of services.

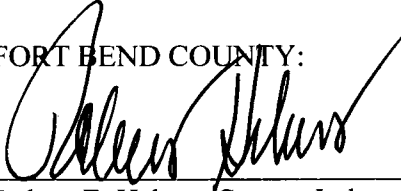
NOW, THEREFORE, in consideration of the foregoing, the Agreement between County and Engineer is hereby amended as follows:

1. Engineer shall render the remaining services to be provided under the Agreement and the additional engineering and environmental services as described in Attachment A attached hereto and incorporated by reference herein for all purposes (hereinafter referred to as "Services");
2. The amount payable to Engineer by County for Services shall be increased to a Maximum Compensation not to exceed three hundred fifty-one thousand one hundred sixty-eight dollars (\$351,168.00) as depicted in the Fee Schedule attached hereto as Attachment B incorporated by reference herein for all purposes. This Maximum Compensation shall include one hundred fifty-six thousand two hundred fifty-three dollars (\$156,253.00) of budget remaining from Work Authorization No. 1 under the Agreement, as shown on Attachment B-1 attached hereto and incorporated herein for all purposes.
3. The time for performance of the Services under the Agreement and this First Amendment shall be extended to terminate on or before December 31, 2015.
4. No additional funding shall be available for services provided under the Agreement without prior written consent of County.
5. Except as modified herein, the Agreement remains in full force and effect and has not been modified or amended.
6. If there is a conflict between this First Amendment and the Agreement, the provisions of the First Amendment shall prevail.

EXECUTION

This First Amendment shall become effective upon execution by County.

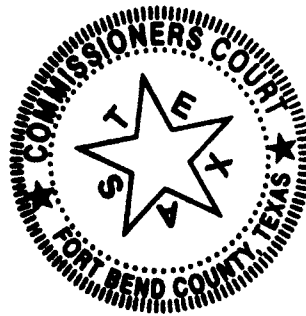
FORT BEND COUNTY:


Robert E. Hebert, County Judge

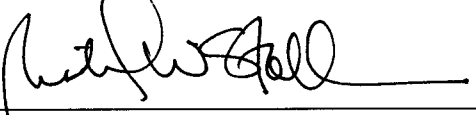
10-14-2014
Date

ATTEST:


Dianne Wilson, County Clerk

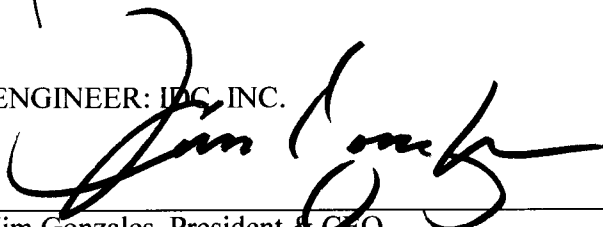


APPROVED: COUNTY ENGINEER


Richard W. Stolleis, P.E., County Engineer

10/10/14
Date

ENGINEER: IDC, INC.


Jim Gonzales, President & CEO

10-8-14
Date

AUDITOR'S CERTIFICATE

I hereby certify that funds are available in the amount of \$156,253.⁰⁰ to accomplish and pay the obligation of the Fort Bend County under this contract.


Ed Sturdivant, Fort Bend County Auditor

ATTACHMENT A

SERVICES TO BE PROVIDED BY THE ENGINEER

Scope of Services for Additional Environmental Services and Revise Line Diagrammatic for Phased Implementation of Project

FM 2759/FM 762 (Crabb River Road) Improvement Project From US 59 (Southwest Freeway) to South of LCISD New HS/JHS Site

SCOPE OF SERVICES

This contract modification is for additional work requested by TxDOT and the County.

General

TxDOT is requiring additional engineering and environmental work not anticipated or included in the current Environmental Assessment (EA) scope of service. This work is necessary to show the revised ultimate configuration of the project based on design changes requested by TxDOT. All work associated with these additional services shall conform to the applicable requirements of TxDOT and Fort Bend County.

Engineering

The County is considering phased construction of the Crabb River Road project. Initial construction, Phase I, would widen the existing 2 and 3 lane asphalt pavement to a 4 lane divided roadway curb and gutter with storm sewers from north of Rabbs Bayou to approximate station 175+00. The existing pavement on Crabb River Rd will be widened from approximate station 175+00 to approximate station 196+00 to connect to the Phase I lane configuration. The proposed section south of station 196+00 will be a 4 lane divided open ditch section to south of the LCISD High School/Junior High School complex. Phase II would construct an elevated structure on Crabb River Road with Thompson Road, which would provide for a grade separation over the BNSFF RR, an at-grade two-way divided Rd from Crabb River Rd to Thompson Road will provide access for traffic requiring to travel southbound on Crabb River Rd and east and west bound on Thompsons Road, a dual left turn lane from northbound Crabb River Road to proposed access , a one way u-turn access road South of BNSF RR and an a northbound entrance ramp to Crabb River Rd from Thompsons Road. Improvements to Thompson Road will also be included to show a divided curb and gutter roadway with left turn lanes and a shared use lane east and west of Crabb River Road. The project would start just north of Rabbs Bayou, connecting to a new 2-lane south bound frontage road constructed under separate contract. North bound traffic would connect to existing Crabb River Road converted to a 2-lane frontage road. The Engineer will revise the ultimate line diagrammatic to show both Phase I and Phase II, and the connection to the new north bound and south bound frontage roads. Tentative locations for detention ponds, as

identified in the drainage report, will be shown on the schematic and addressed in the environmental document. The engineer will coordinate development of the line diagrammatic with the County, TxDOT, other stakeholders, and affected property owners. The line diagrammatic will be included into the EA document, which will need to be revised to incorporate phased construction. The Engineer will prepare a project cost estimate, including construction, ROW, utility adjustments/relocations, and engineering for the phased construction. The estimate will be refined as additional input is received from the County, TxDOT, and stake holders.

ENGINEERING SERVICES

Revise line diagrammatic to show reconstruction of Crabb River Road with new concrete pavement, raised median, and curb and gutter from Rabbs Bayou to Sta 175+00; from Sta 175+00 to Sta 196+00 the existing asphalt pavement will be widened to meet new lane configuration; from Sta 196+00 to End of project, the alignment will be revised and additional ROW takings identified to provide for a reconstructed road with asphalt pavement raised median with shoulders and open ditches. Work will include revising the Preliminary Drainage Report to incorporate the open ditches; revising the line diagrammatic from Rabbs Bayou to End of project to incorporate changes to the profile, re-alignment of Crabb River Road, typical sections, new ROW determination, and earthwork cross sections. The construction cost estimate will be revised to include new design concept approved by the County and TxDOT.

I. Project Management

- A. Prepare monthly progress report, invoice and schedule update.
- B. Coordinate ultimate Preliminary Engineering with TxDOT – Meet with TxDOT and County to review limits of Phase I and Phase II and location of Reading Road.
- C. Coordinate with County and Landowners – Meet with County Engineer to review ROW takings, driveway and street connections, median openings and roadway alignments. Accompany County staff and officials to landowner meetings when requested.
- D. Coordinate with Environmental consultant on project design.
- E. Implement Internal Quality Management Program.

II. Public Involvement

- A. Conduct small group meetings with stakeholders.

- B. Conduct Public Hearing.

III. Preliminary Drainage Design

- A. Review existing drainage report and discuss revisions with TxDOT and Country. Review any updated construction plans, available drainage study and other technical data related to the project and modify drainage report to incorporate.
- B. Revise proposed drainage area boundaries from approved drainage report to incorporate open ditch drainage system and revised alignment south of BNSF RR.
- C. Revise preliminary size of proposed drainage crossing structures based on revised typical section and revised proposed grade line, using THYSYS Culvert or HEC-RAS software.
- D. Proposed roadside ditches will be re-sized to accommodate all of the roadway drainage. The roadside ditches will be sized to convey, at a minimum, the 10-year storm.
- E. Review and revise mitigation analysis based on open ditch drainage and revised alignment south of BNSF RR.
- F. Revise location of detention ponds as required.
- G. Prepare a revised letter report summarizing the methodologies and findings of the preliminary drainage design. Design will be in accordance with Fort Bend County, local levy improvement districts, and TxDOT policies and practices.

IV. Line Diagrammatic

- A. Ultimate drawing – Make revisions to ultimate by incorporating approved concept design at the intersection of Crabb River Road with Thompson Road.
- B. Revise ultimate plan and profile to new design concept to show an at-grade two-way divided Rd from Crabb River Rd to Thompson Road that will provide access for traffic requiring to travel east/west bound on Thompsons Road and southbound on Crabb River Road, a one way u-turn access road South of BNSF RR and an a northbound entrance ramp to Crabb River Rd from Thompsons Road.
- C. Re-locate Reading Road to match County thoroughfare plan and provide median opening with left turn lanes.

- D. Coordinate with BNSF RR on At-grade crossing.
- E. Develop preliminary bent locations for proposed bridge at BNSFRR.
- F. Incorporate shared used lanes, sidewalks, pedestrian ramps on Crabb River Rd and FM 762.
- G. Develop proposed typical sections on the overpass at BNSF RR to show sidewalks and at retaining wall section on the northbound side of Crabb River Road. Prepare proposed typical sections along Thompsons Road that show a divided curb and gutter section with shared use lanes.
- H. Revise left turn lane storage and deceleration lengths as per TxDOT's latest design manual.
- I. Revise plan view to show pavement marking north of Rabbs Bayou to tie into existing pavement.
- J. Revise proposed ROW and any easements to accommodate revised alignment south of BNSFF RR and at the proposed Reading Road location.
- K. Revise preliminary estimate of earthwork volumes.
- L. Update traffic volumes on line diagrammatic.
- M. Develop Ultimate Design Cost Estimate and separate cost for Phase 1 & 2 construction.
- N. Prepare graphics file of line diagrammatic.

V. Environmental Assessment

The additional work to be performed shall consist of revising the Environmental Assessment (EA) to account for changes in project planning and design, detention ponds, federal regulatory guidance, and available data for the proposed Crabb River Road Expansion project. The environmental work required is described below.

The Engineer shall perform certain professional that are required for preparing an Environmental Assessment (EA), anticipating a Finding of No Significant Impact (FONSI) for the widening of approximately three miles of Crabb River Road (FM 2759/FM 762) in Fort Bend County. Work would include an elevated overpass on Crabb River Road over the BNSF railroad tracks and Thompsons Road. This scope of work continues services begun under the original work authorization for this contract. It has

been three to four years since previous studies were conducted for this project, and significant changes in project design and construction phasing are anticipated. Thus, there are changed conditions and changes in regulatory guidance, resulting in outdated data and information in the previous studies. It is therefore necessary for the environmental studies need to be revisited—some extensively—to meet NEPA and other regulatory requirements and for the EA to pass review by the agencies with jurisdiction, including Fort Bend County (FBC) and the Texas Department of Transportation (TxDOT).

The Engineer will provide the following tasks described below.

A. Project Management

The Engineer will be responsible for the overall management and preparation of the EA.

B. Meetings

Environmental manager will attend up to four meetings with FBC, and/or TxDOT staff. environmental manager will participate in up to six additional meetings via phone, as needed.

C. Quality Review

The EA will be reviewed by the Project Manager and another senior level reviewer before each submittal. The EA will be reviewed for substantive content, completeness, clarity, and format.

D. Monthly Progress Reports

Prepare and submit monthly progress reports.

E. Risk Assessments

This task involves preparation of risk assessments to determine studies needed for the following resource/issue areas: community impacts, noise, hazardous materials, historic resources, and planning. The results from these risk assessments will be used to assist in completing the Project Scope for Environmental Review Documents.

F. Project Scope for Environmental Review Documents

PB shall complete the Project Scope for Environmental Review Documents (Scoping Document), dated February 2014. The task shall include revising the Scoping Document per two sets of comments from TxDOT.

G. Purpose and Need, Project Description, Right-of-Way Requirements, Data Updates

The purpose and need statement will be revised to reflect updated community population growth, traffic, safety and other relevant data that were originally included to the extent that updated data are available. Additional or updated traffic and safety data will be provided by a third party (TxDOT, H-GAC, DPS, etc.). Revisions pertaining to traffic data will be incorporated into the purpose and need, noise, and sections that require reference to traffic levels.

The project description, purpose and need, and related text will be revised to describe and incorporate changes in project design and construction phasing, and will include reference to the adjacent SH 99/Grand Parkway project. Changes in engineering plans and typical sections, location of detention ponds, right-of-way, bicycle facilities, sidewalks, and other physical changes will be reflected in the NEPA document. PB will rely on information and graphics provided by IDC to complete these revisions.

Discussion of right-of-way requirements and utility adjustments will be updated according to design information provided by IDC. The project cost estimate and associated information will be updated based on information provided by IDC.

Project planning references throughout the document will be revised to be consistent with current listings in the TIP and RTP that reflect the current understanding of project planning.

Engineer shall obtain from IDC the existing and projected traffic data and copies of the design schematics, plans and specifications for the project that are necessary to complete the scope of services. Traffic data and the design schematic or other design drawings showing the plan and profile views are necessary to complete the environmental studies required for the EA.

One on-site survey will be conducted for data collection supporting Tasks 7, 8, and 12. Other surveys required are included in individual tasks as noted.

H. Revise Alternative Description

Based on examination of design schematics and typical sections provided by IDC and consultation with IDC staff, description of the Preferred (Build) Alternative will be revised to describe the changes in design and construction noted above for Task 5.

I. Revise/Update Land Use Discussion

Review of publicly available aerial photography, notes from site surveys, and review of available community plans applicable to the project area will be used to revise and update the discussion of existing land use in the EA.

J. Socioeconomics/Environmental Justice/Community Impacts

Engineer will update population estimates and projections for discussion of regional and community growth with available data from the Texas State Data Center. Discussion of existing socioeconomic conditions in the EA will be updated with information obtained as described in Task 7 along with reference to available published sources. Discussion of community cohesion will be updated with information obtained as described in Task 7 along with reference to available published sources. The land use information, in combination with design schematics and ROW information will be used to evaluate displacements and relocations. Discussion of bicycle and pedestrian facilities will also be incorporated into the EA.

The EA's environmental justice analysis and discussion of limited English proficiency populations will be updated and revised to incorporate new data from the 2010 U.S. Census and the 2008-2012 American Community Survey (U.S. Census Bureau). Since the commencement of the project, the 2010 Census and the revamped ACS have acquired and released new data, which are required to be incorporated into NEPA documents per

TxDOT and FHWA standards. These data will be collected, tabulated and incorporated into the evaluation of community impacts and environmental justice and documented in the EA.

K. Noise Impacts

A noise analysis will be conducted to verify compliance with TxDOT's Guidelines for Analysis and Abatement of Roadway Traffic Noise (2011). This analysis will include noise modeling for existing and predicted noise levels under Build and No Build conditions. The analysis will also take into consideration potential development of undeveloped properties. Noise specialists will conduct and review the study and written results will be explained in a technical report and summarized in the EA using TxDOT's recommended format. The technical report will summarize the noise impact analysis, identifying noise sensitive receivers that will be exposed to peak hour noise levels that approach, equal or exceed the FHWA Noise Abatement Criteria or would be exposed to a substantial increase. Exhibits and tables will be prepared to explain the results, identifying noise modeling locations, existing and predicting noise levels, changes in peak hour Leq noise levels, noise contours, and possible mitigation measures. If mitigation measures are required, a noise barrier analysis will be performed within the existing and proposed ROW to determine if noise barriers are considered reasonable and feasible. Construction noise impacts will be qualitatively assessed and discussed in the EA.

L. Noise Field Verification

If necessary to validate the noise model, take sufficient existing noise level measurements within the new location portion of the proposed project to determine the existing noise levels for the EA. If field verification is required, two noise specialists will travel to the project site for this purpose.

M. Hazardous Materials Investigations

Perform a Hazardous Materials Initial Site Assessment, which will include a federal/state hazardous materials database search and one on-site investigation. The results of the hazardous materials investigations will be included in the EA.

N. Discussion of Permits and Commitments

List and describe in the EA permits anticipated to be required according to the findings of the EA and environmental commitments required from FBC and TxDOT according to those findings and applicable regulatory requirements.

O. Visual/Aesthetic Impacts

Evaluate the visual/aesthetic impacts of the proposed project. It is anticipated that the visual/aesthetic impacts would be related to the proposed overpass at the BNSF RR and Thompsons Road.

P. GIS and Mapping

Engineer will use GIS to create updated maps and exhibits for the EA and for spatial data analysis needed to complete environmental studies.

Q. Environmental Resource Agency Coordination

Engineer will coordinate with IDC and the consultant team, FBC, and TxDOT to forward necessary studies and information to environmental resource agencies to conduct coordination. Consult with the above parties to follow established protocol for correspondence with resource agencies.

R. Public Hearing

Engineer will prepare a Notice of Public Hearing (NPH) after TxDOT has determined the EA to be Satisfactory for Further Processing. The NPH will be submitted to Fort Bend County and TxDOT for approval prior to publication. The Engineer will be responsible for advertising costs.

This effort will include the preparation of legal notice for ad placement and ad placement verification procedures, pre-meeting planning, up to 2 TxDOT coordination meetings, mailing/notification lists, preparation of meeting notifications, meeting facility arrangements, court reporter coordination, public hearing attendance, hearing summary documentation and community follow-up. The following efforts are required to complete the project:

- Engineer will prepare and verify legal notices and advertisements.
 - o Engineer will arrange for publication in newspapers and pay publication costs directly to newspapers/periodicals.
- Engineer will participate in TxDOT coordination meetings to prepare for the hearing.
- Engineer will book the public hearing facility.
 - o Engineer will pay facility rental costs.
- Engineer will provide a court reporter.
 - o Engineer will pay court reporter costs directly.
- Engineer will conduct property owner verification.
- Engineer will assemble and verify public hearing mailing lists; County will furnish any available mailing list of adjoining property owners and tenants and stakeholders.
 - o Engineer will mail public hearing notices.
- Engineer will prepare public hearing presentation and scripts plus respond to TxDOT comments.
- Engineer will attend hearing and set up in advance.
 - o Engineer will provide audio/video equipment, as necessary.
- Engineer will prepare a Public Hearing Summary that will include legal notices, photographs of the displays and set-ups, handouts distributed at the meeting, attendance sheets, comment sheets, comment cards, letters sent and received, public meeting summary and summary of comments.

S. Historic Resources Survey

Engineer (or its subconsultant) will prepare a Non-Archeological Historic Resources Project Coordination Request (October 2009 version) for review and comment by

TxDOT-ENV. If required by TxDOT, a research design will be prepared for review and comment by TxDOT-ENV. The research design shall conform to TxDOT SOU: Non-Archeological Historic-Age Resource Research Designs Review Checklist (October 2009 version).

Engineer (or its subconsultant) will perform a reconnaissance survey conforming to the methodology outlined in Appendix B of the Draft CRM Guide for Accurately Identifying Non-Archeological Cultural Resources (Texas Department of Transportation, April 2006). The survey shall document each historic-age resource (defined by TxDOT as a building, structure, object, historic district or non-archeological site at least 45 years old at the time of letting) within the Study Area. The Study Area shall consist of the Area of Potential Effects (APE) plus all parcels that are wholly or partially within the APE.

Engineer (or its subconsultant) will provide a report detailing the results and findings of the reconnaissance survey including effects to historic properties and the need, if any, to conduct intensive survey efforts. The report shall have sufficient detail and clarity to provide the Texas Historical Commission (THC) with the basis for making determinations of National Register of Historic Places (NRHP) eligibility or shall have sufficient detail and clarity to make recommendations concerning the scope of the intensive survey. The report shall conform to the TxDOT Standards of Uniformity for Non-Archeological Historic-Age Resource Reconnaissance Survey Reports Review Checklist (October 2013 version). The results of the historic resources survey will be summarized in the EA.

T. Prepare Draft EA

The results of the updated environmental studies will be collected from the consultant team and edited and incorporated into the draft EA document with exhibits/appendices. The document will be reviewed per Task 3 and submitted to IDC.

U. Address Review Comments

Engineer will address review comments from each of the following agencies on the EA and on those resource/issue sections for which Engineer is responsible:

- IDC
- Fort Bend County
- TxDOT Houston District
- TxDOT Environmental Affairs Division

Comments regarding the content of resource/issue sections completed by other firms will be addressed by those firms. PB will address general comments on the format and presentation of the EA document. After each round of comment and response, the draft EA document will be resubmitted to IDC.

V. Prepare Final EA

After FHWA comments have been addressed and responses incorporated into the draft EA document, it will be further edited and reviewed and a final EA document will be submitted to IDC for FHWA approval and public hearing.

W. Finding of No Significant Impact (FONSI)

As required by FHWA, Engineer will prepare a FONSI document consisting of multiple pages. The FONSI is a separate document that clearly sets forth FHWA's conclusions and identifies the basis for the decision. The FONSI will document compliance with NEPA and other applicable environmental laws, executive orders, and related requirements, and it will document environmental commitments and mitigation measures agreed to by Fort Bend County, TxDOT and FHWA. The FONSI document will include:

- Project Description
- Project History
- Proposed Impacts and Mitigation Commitments, including those regarding:
- Land Use
- Relocations and Right-of-Way Acquisition
- Community Cohesion
- Environmental Justice
- Air Quality
- Traffic Noise
- Water Quality (including Section 401 Compliance and Texas Pollutant Discharge Elimination System)
- Floodplains
- Wetlands and Waters of the U.S.
- Vegetation and Wildlife Habitat
- Threatened and Endangered Species
- Migratory Birds
- Cultural Resources
- Section 4(f)/6(f) Properties
- Hazardous Materials
- Summary of Indirect and Cumulative Impacts
- Monitoring of Enforcement
- Conclusion
- Determination

Following issuance of a FONSI by FHWA, Engineer will draft a Notice of Availability of the FONSI and EA, and publish and mail notice. The County will be responsible for the cost of mailing and advertising the notification.

Deliverables

- o Draft EA
- o Final EA
- o Noise Analysis Technical Report
- o Public Hearing Summary Report
- o FONSI

X. Revise Environmental Constraints Map

The environmental constraints Map will be updated to include recent aerials, detention pond ROW and environmental resources and modified project limits.

Y. Revise Document to Incorporate New Project Limits Project Design Changes

The project description and related text will be revised to accurately describe the new project limits and incorporate changes in project design. Changes in engineering plans and typical sections, location of detention ponds, right-of-way, bicycle facilities, sidewalks, and other physical changes must be reflected in the NEPA document. Changes in the project limits will require review of land use, relocation, social and economic, cultural resources, natural resources, wetlands and water resources, noise, hazardous materials, and visual quality impacts to reflect accurately how the changed project footprint would affect the extent and intensity of potential impacts.

Z. Archeology Survey/Report

Prior to initiating the cultural resources survey, the Consultant will obtain and review available information to assess the general site conditions of the detention pond sites. Archeologists will also conduct a records review at the Texas Archeological Research Laboratory (TARL) in Austin, Texas to identify recorded archeological or historic sites within the project area. The Consultant will also review federal and state lists of recorded historic properties such as the National Register of Historic Places (NRHP), State Archeological Landmarks, and Official Texas Historic Markers. In addition, the Potential Archeological Liability Map (PALM) will be reviewed. This information will be digitized and overlaid onto the most recent available USGS topographic maps. Based upon the above findings, a methodology will be determined and include criteria such distance from permanent sources of water, geology, topography, and level of disturbance. A scope of work (SOW) along with an antiquities permit application will be submitted to the Texas Historical Commission (THC) for approval.

Survey methods will follow the Archeological Survey Standards for Texas established by the Texas Historical Commission (THC) and the recommendations of TxDOT's Houston PALM. Where shovel testing is recommended by the PALM, shovel tests will be conducted as outlined in Attachment A of the original scope of services.

Following completion of the survey, the Consultant will analyze all data, and provide a preliminary evaluation of all located cultural resources with regard to eligibility for inclusion to the NRHP. A report including background research and a summary of the field investigation results will be written in accordance with the Guidelines for Cultural Resources Management Reports established by the Council of Texas Archeologists. In addition, if any sites are encountered during the survey, a list of these sites will be presented along with the landowner information pertaining to the site location. Recommendations will be made regarding the potential for identified sites to meet established criteria for inclusion on the NRHP or designation as SAL. The Consultant will prepare a written summary of the methods and findings for the cultural resources survey. The Consultant will prepare topography based exhibits depicting the proposed detention pond sites and the location of the cultural resources sites, if encountered. Site photographs will also be included in the summary report. A

draft report of these findings will be submitted to TxDOT for review and comment. The draft reports will be submitted as electronic deliverables. The report will be revised to address any comments received from TxDOT. Survey documents will be submitted to TARL for curation and 30 copies of the final report will be submitted to TxDOT with 20 copies for the THC.

AA. Section 404 Wetlands Delineation/Report – Detention Ponds

Field Delineation:

The following parameters shall be updated according for the additional areas:

- Soils
- Vegetation
- Hydrology
- Surveying and Mapping of Wetland Boundaries
- Completion of preliminary Jurisdictional Determination Forms

Wetlands Documentation Letter:

A revision to the Wetlands Delineation report or letter report (whichever is appropriate) shall be updated and resubmitted to the County for either filing or concurrence by the USACE. As part of this report, the Engineer shall prepare topographic and aerial photography-based exhibits depicting the proposed project area and the location and boundaries of mapped waters of the U.S., including wetlands. Copies of data sheets, jurisdictional determination forms, and site photographs would also be included in the report. The report revisions will also include the modified project limits of Crabb River Road.

BB. Quality Review

QA/QC – perform quality check on revised documents.

EXCLUSIONS:

- **Air Quality Impacts**
- **Noise Barrier Analysis outside of existing and proposed ROW.**
- **Noise Workshops.**

ATTACHMENT A-1

Scope of Work Crabb River Road Widening Project Environmental Assessment

Parsons Brinckerhoff (PB) shall perform certain professional services for IDC, Inc. (IDC) that are required for preparing an Environmental Assessment (EA), anticipating a Finding of No Significant Impact (FONSI) for the widening of approximately three miles of Crabb River Road (FM 2759/FM 762) in Fort Bend County. Work would include an elevated overpass on Crabb River Road over the BNSF railroad tracks and Thompsons Road. This scope of work continues services begun under the original work authorization for this contract. It has been three to four years since previous studies were conducted for this project, and significant changes in project design and construction phasing are anticipated. Thus, there are changed conditions and changes in regulatory guidance, resulting in outdated data and information in the previous studies. It is therefore necessary for the environmental studies need to be revisited—some extensively—to meet NEPA and other regulatory requirements and for the EA to pass review by the agencies with jurisdiction, including Fort Bend County (FBC) and the Texas Department of Transportation (TxDOT).

Parsons Brinckerhoff will provide the following tasks described below. It is understood that additional tasks required to complete the EA will be performed by others (as noted below). The length of this scope of work is anticipated to be one year.

Task 1: Project Management

PB will be responsible for the overall management and preparation of the EA.

Task 2: Meetings

Project manager will attend up to four meetings with IDC, FBC, and/or TxDOT staff as requested by IDC. Project manager will participate in up to six additional meetings via phone, as needed.

Task 3: Quality Review

The EA will be reviewed by the Project Manager and another senior level reviewer before each submittal. The EA will be reviewed for substantive content, completeness, clarity, and format.

Task 4: Monthly Reporting Invoices

Invoices for services rendered will be submitted along with progress reports on a monthly basis.

Task 5: Risk Assessments

This task involves preparation of risk assessments to determine studies needed for the following resource/issue areas: community impacts, noise, hazardous materials, historic resources, and planning. The results from these risk assessments will be used to assist in completing the Project Scope for Environmental Review Documents.

Task 6: Project Scope for Environmental Review Documents

Scope of Work
Crabb River Road Widening Project
Environmental Assessment

PB shall complete the Project Scope for Environmental Review Documents (Scoping Document), dated February 2014. The task shall include revising the Scoping Document per two sets of comments from TxDOT.

Task 7: Purpose and Need, Project Description, Right-of-Way Requirements, Data Updates

The purpose and need statement will be revised to reflect updated community population growth, traffic, safety and other relevant data that were originally included to the extent that updated data are available. Additional or updated traffic and safety data will be provided by a third party (TxDOT, H-GAC, DPS, etc.). Revisions pertaining to traffic data will be incorporated into the purpose and need, noise, and sections that require reference to traffic levels.

The project description, purpose and need, and related text will be revised to describe and incorporate changes in project design and construction phasing, and will include reference to the adjacent SH 99/Grand Parkway project. Changes in engineering plans and typical sections, location of detention ponds, right-of-way, bicycle facilities, sidewalks, and other physical changes will be reflected in the NEPA document. PB will rely on information and graphics provided by IDC to complete these revisions.

Discussion of right-of-way requirements and utility adjustments will be updated according to design information provided by IDC. The project cost estimate and associated information will be updated based on information provided by IDC.

Project planning references throughout the document will be revised to be consistent with current listings in the TIP and RTP that reflect the current understanding of project planning.

PB shall obtain from IDC the existing and projected traffic data and copies of the design schematics, plans and specifications for the project that are necessary to complete the scope of services. Traffic data and the design schematic or other design drawings showing the plan and profile views are necessary to complete the environmental studies required for the EA.

One on-site survey will be conducted for data collection supporting Tasks 7, 8, and 12. Other surveys required are included in individual tasks as noted.

Task 8: Revise Alternative Description

Based on examination of design schematics and typical sections provided by IDC and consultation with IDC staff, description of the Preferred (Build) Alternative will be revised to describe the changes in design and construction noted above for Task 5.

Task 9: Revise/Update Land Use Discussion

Review of publicly available aerial photography, notes from site surveys, and review of available community plans applicable to the project area will be used to revise and update the discussion of existing land use in the EA.

Task 10: Socioeconomics/Environmental Justice/Community Impacts

PB will update population estimates and projections for discussion of regional and community growth with available data from the Texas State Data Center. Discussion of existing socioeconomic conditions in the EA will be updated with information obtained as

Scope of Work
Crabb River Road Widening Project
Environmental Assessment

described in Task 7 along with reference to available published sources. Discussion of community cohesion will be updated with information obtained as described in Task 7 along with reference to available published sources. The land use information, in combination with design schematics and ROW information will be used to evaluate displacements and relocations. Discussion of bicycle and pedestrian facilities will also be incorporated into the EA.

The EA's environmental justice analysis and discussion of limited English proficiency populations will be updated and revised to incorporate new data from the 2010 U.S. Census and the 2008-2012 American Community Survey (U.S. Census Bureau). Since the commencement of the project, the 2010 Census and the revamped ACS have acquired and released new data, which are required to be incorporated into NEPA documents per TxDOT and FHWA standards. These data will be collected, tabulated and incorporated into the evaluation of community impacts and environmental justice and documented in the EA.

Task 11: Noise Impacts

A noise analysis will be conducted to verify compliance with TxDOT's Guidelines for Analysis and Abatement of Roadway Traffic Noise (2011). This analysis will include noise modeling for existing and predicted noise levels under Build and No Build conditions. The analysis will also take into consideration potential development of undeveloped properties. Noise specialists will conduct and review the study and written results will be explained in a technical report and summarized in the EA using TxDOT's recommended format. The technical report will summarize the noise impact analysis, identifying noise sensitive receivers that will be exposed to peak hour noise levels that approach, equal or exceed the FHWA Noise Abatement Criteria or would be exposed to a substantial increase. Exhibits and tables will be prepared to explain the results, identifying noise modeling locations, existing and predicting noise levels, changes in peak hour Leq noise levels, noise contours, and possible mitigation measures. If mitigation measures are required, a noise barrier analysis will be performed within the existing and proposed ROW to determine if noise barriers are considered reasonable and feasible. Construction noise impacts will be qualitatively assessed and discussed in the EA. Any field verifications of noise levels or other on-site noise investigation will require a supplemental scope of work and are not included in this scope of services.

Task 12: Hazardous Materials Investigations

PB will perform a Hazardous Materials Initial Site Assessment, which will include a federal/state hazardous materials database search and one on-site investigation. The results of the hazardous materials investigations will be included in the EA.

Task 13: Discussion of Permits and Commitments

PB will list and describe in the EA permits anticipated to be required according to the findings of the EA and environmental commitments required from FBC and TxDOT according to those findings and applicable regulatory requirements.

Task 14: Visual/Aesthetic Impacts

PB will evaluate the visual/aesthetic impacts of the proposed project. It is anticipated that the visual/aesthetic impacts would be related to the proposed overpass at the BNSF RR and Thompsons Road.

Scope of Work
Crabb River Road Widening Project
Environmental Assessment

Task 15: GIS and Mapping

PB will use GIS to create updated maps and exhibits for the EA and for spatial data analysis needed to complete environmental studies, including:

- analysis of mapped census block group data from the Census Bureau's American Community Survey;
- calculation of acres of proposed ROW required;
- calculation of impacts on farmland;
- required revisions to project location and study area maps;
- review, revision and incorporation of resource and constraint maps provided by others.

Task 16: Environmental Resource Agency Coordination

PB will coordinate with IDC and the consultant team, FBC, and TxDOT to forward necessary studies and information to environmental resource agencies to conduct coordination. PB will consult with the above parties to follow established protocol for correspondence with resource agencies.

Task 17: Public Hearing

PB will prepare a Notice of Public Hearing (NPH) after TxDOT has determined the EA to be Satisfactory for Further Processing. The NPH will be submitted to Fort Bend County and TxDOT for approval prior to publication. Fort Bend County will be responsible for reimbursement of advertising costs.

This effort will include the preparation of legal notice for ad placement and ad placement verification procedures, pre-meeting planning, up to 2 TxDOT coordination meetings, mailing/notification lists, preparation of meeting notifications, meeting facility arrangements, court reporter coordination, public hearing attendance, hearing summary documentation and community follow-up. The following efforts are required to complete the project:

- PB will prepare, verify and arrange for publication of legal notices and advertisements in newspapers
- PB will participate in TxDOT coordination meetings to prepare for the hearing
- PB will research and book a public hearing facility
- PB will arrange for a court reporter and translator (if requested)
- PB will conduct property owner verification
- PB will assemble and verify the public hearing mailing lists of adjoining property owners and tenants and stakeholders.
- PB will mail public hearing notices
- PB will prepare public hearing presentation and scripts plus respond to TxDOT comments
- PB will attend hearing and set up in advance and provide audio/video equipment, as necessary
- PB will prepare a Public Hearing Summary that will include legal notices, photographs of the displays and set-ups, handouts distributed at the meeting, attendance sheets, comment sheets, comment cards, letters sent and received, public meeting summary and summary of comments.

Task 18: Historic Resources Survey

Scope of Work
Crabb River Road Widening Project
Environmental Assessment

PB (or its subconsultant) will prepare a Non-Archeological Historic Resources Project Coordination Request (October 2009 version) for review and comment by TxDOT-ENV. If required by TxDOT, a research design will be prepared for review and comment by TxDOT-ENV. The research design shall conform to TxDOT *SOU: Non-Archeological Historic-Age Resource Research Designs Review Checklist* (October 2009 version).

PB (or its subconsultant) will perform a reconnaissance survey conforming to the methodology outlined in Appendix B of the *Draft CRM Guide for Accurately Identifying Non-Archeological Cultural Resources* (Texas Department of Transportation, April 2006). The survey shall document each historic-age resource (defined by TxDOT as a building, structure, object, historic district or non-archeological site at least 45 years old at the time of letting) within the Study Area. The Study Area shall consist of the Area of Potential Effects (APE) plus all parcels that are wholly or partially within the APE.

PB (or its subconsultant) will provide a report detailing the results and findings of the reconnaissance survey including effects to historic properties and the need, if any, to conduct intensive survey efforts. The report shall have sufficient detail and clarity to provide the Texas Historical Commission (THC) with the basis for making determinations of National Register of Historic Places (NRHP) eligibility or shall have sufficient detail and clarity to make recommendations concerning the scope of the intensive survey. The report shall conform to the TxDOT *Standards of Uniformity for Non-Archeological Historic-Age Resource Reconnaissance Survey Reports Review Checklist* (October 2013 version). The results of the historic resources survey will be summarized in the EA.

Task 19: Prepare Draft EA

The results of the updated environmental studies will be collected from the consultant team and edited and incorporated into the draft EA document with exhibits/appendices. The document will be reviewed per Task 3 and submitted to IDC.

Task 20: Address Review Comments

PB will address one round of review comments from each of the following agencies on the EA and on those resource/issue sections for which PB is responsible:

- IDC/Fort Bend County (one round of review comments)
- TxDOT Houston District
- TxDOT Environmental Affairs Division (TxDOT-ENV)

Comments regarding the content of resource/issue sections completed by other firms will be addressed by those firms. PB will address general comments on the format and presentation of the EA document. After each round of comment and response, the draft EA document will be resubmitted to IDC.

Task 21: Prepare Final EA

After TxDOT-ENV comments have been addressed and responses incorporated into the draft EA document, it will be further edited and reviewed and a final EA document will be submitted to IDC for TxDOT approval and public hearing.

Task 22: Finding of No Significant Impact (FONSI)

As required by FHWA, PB will prepare a FONSI document consisting of multiple pages. The FONSI is a separate document that clearly sets forth TxDOT's conclusions and identifies the basis for the decision. The FONSI will document compliance with NEPA and other applicable environmental laws, executive orders, and related requirements,

Scope of Work
Crabb River Road Widening Project
Environmental Assessment

and it will document environmental commitments and mitigation measures agreed to by Fort Bend County and TxDOT. The FONSI document will include:

- *Project Description*
- *Project History*
- *Proposed Impacts and Mitigation Commitments, including those regarding:*
 - *Land Use*
 - *Relocations and Right-of-Way Acquisition*
 - *Community Cohesion*
 - *Environmental Justice*
 - *Air Quality*
 - *Traffic Noise*
 - *Water Quality (including Section 401 Compliance and Texas Pollutant Discharge Elimination System)*
 - *Floodplains*
 - *Wetlands and Waters of the U.S.*
 - *Vegetation and Wildlife Habitat*
 - *Threatened and Endangered Species*
 - *Migratory Birds*
 - *Cultural Resources*
 - *Section 4(f)/6(f) Properties*
 - *Hazardous Materials*
- *Summary of Indirect and Cumulative Impacts*
- *Monitoring of Enforcement*
- *Conclusion*
- *Determination*

Following issuance of a FONSI, PB will draft a Notice of Availability of the FONSI and EA and publish and mail the notice.

Deliverables

- Draft EA
- Final EA
- Noise Analysis Technical Report
- Public Hearing Summary Report
- FONSI

Tasks Not Included in this Scope of Services:

The following sections will be prepared by others: Air Quality Impacts; Geology, Soils and Farmlands; Floodplains and Water Resources; Ecological Resources; Archeological Resources; and Indirect and Cumulative Impacts. PB will review and incorporate these sections into the environmental document.

This Scope of Services does not include conducting wetland delineation/determination, permitting or mitigation; preparing a water quality certification; preparing a Section 4(f) Evaluation (required for taking parkland, recreation land, historic sites) or Section 4(f) *de minimis* impact evaluation/coordination; Section 6(f) coordination; Formal or Informal Section 7 Consultation with the USFWS; Biological Assessment/Biological Evaluation (associated with endangered species/habitat impacts); USCG Section 9 permit; field

Scope of Work
Crabb River Road Widening Project
Environmental Assessment

verification of noise levels or other on-site noise investigations, detailed noise barrier analysis outside of the existing and proposed ROW; or any noise workshops. Should any of these services be determined necessary, PB will provide a proposed contract modification with a scope of work and cost estimate to perform the associated supplemental work as additional services.

PARSONS BRINCKERHOFF
STAFFING PLAN AND BUDGET WORKSHEET
FORT BEND COUNTY CRABB RIVER ROAD EXPANSION ENVIRONMENTAL ASSESSMENT

Subtask	Bill Rate	Team Member/Employee Classification																							
		PM		QA/QC		Noise Specialist		Noise Specialist		Noise Tech Review		Environ Engineer		Public Involvement		Public Involvement		Planner II		Project Admin		Cost			
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost		
Project Management																									
Meetings		60	7,927		0		0		0		0		0		0		0		0		0		0	60	7,927
QA/QC (included in tasks below)		40	5,285		0		0		0		0		0		0		0		0		0		0	40	5,285
Monthly Reporting Invoices		16	2,114		0		0		0		0		0		0		0		0		8	918	24	3,032	
Subtotal Task		116	15,326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	918	124	16,244		
Environmental Studies																									
Risk Assessments																									
Scoping Document		12	1,585	4	873	8	1,204		0		0	8	1,061		0		0		0				0	32	4,723
P&I, Proj Desc, ROW, Data Updates		32	4,228	4	873	0	0		0		0		0		0		0		0				0	16	2,458
Revise Alternative Description		8	1,057		0		0		0		0		0		0		0		8		758		0	40	4,986
Revise Update Land Use		16	2,114		0		0		0		0		0		0		0		0		0		0	8	1,057
Socioeconomic/EJ/Community		48	6,342		0		0		0		0		0		0		0		0		0		0	16	2,114
Noise Impacts		4	528		0		0		52	7,824	152	16,357	4	521		0		0		0		0	48	6,342	
Hazardous Materials		4	528		0		0		0		0		60	7,955		0		0		0		0	212	25,230	
Discussion of Permits & Commitments		4	528		0		0		0		0		0		0		0		0		0		0	64	8,483
Visual and Aesthetic Impacts		8	1,057		0		0		0		0		0		0		0		60		5,865		0	68	6,742
GIS & Mapping		12	1,585		0		0		0		0		0		0		0		0		0		12	1,585	
Agency Coordination		8	1,057		0		0		0		0		0		0		0		124		11,749		0	208	26,037
Public Hearing					0		0		0		0		0		50	8,526	24	4,705					0		
Subtotal Task		174	22,987	8	1,748	60	9,028	162	16,357	4	521	68	9,016	60	8,526	24	4,705	192	18,192	0	0		732	91,078	
Prepare EA Report																									
Prepare Draft EA		40	5,285	6	1,309		0		0		0		0		0		0		0				0	46	6,594
Address ID/County Comments		8	1,057	2	436	2	301		0		0	2	265		0		0		4		379		0	18	2,438
Address TxDOT District Comments		24	3,171	8	1,745	6	903		0		0	4	530		0		0		12		1,137		0	54	7,486
Address TxDOT-ENV Comments		28	3,699	8	1,745	12	1,806		0		0	8	1,061		0		0		16		1,516		0	72	9,627
Subtotal Task		100	13,712	24	5,235	20	3,010	0	0	0	0	14	1,856	0	0	0	0	32	3,032	0	0		190	26,345	
Finding of No Significant Impact (FONSI)																									
Prepare FONSI		40	5,285	4	873		0		0		0		0		0		0		0				0	44	6,158
Subtotal Task		40	5,285	4	873	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		44	6,158	
Total Hours and Labor Cost		430	56,810	36	7,654	80	12,038	162	16,357	4	521	82	10,872	60	8,526	24	4,705	224	21,224	8	918		1,090	139,425	
																						Other Direct Costs		14,984	
																						Total PB Cost		154,809	
																						AnaTerra (historic resources)		11,747	
																						Total Estimated Cost to Completion		166,556	

Parsons Brinckerhoff Crabb River Road EA

Summary of Expense Estimate

ATTACHMENT B

DIRECT COST ITEMS	AMOUNT	UNIT	RATE	TOTAL
Airfare	1	RT	\$ 500.00	\$ 500.00
Mileage	2000	MILE	\$ 0.565	\$ 1,130.00
Digital Camera Usage	5	DAY	\$ 7.00	\$ 35.00
Records Curation		DRW		\$ -
Printing and Photocopying				\$ -
-Photocopies 8.5 x 11	3000	EA	\$ 0.10	\$ 300.00
-Photocopies 11 x 17	125	EA	\$ 0.15	\$ 18.75
-Color Photocopies 8.5 x 11	250	EA	\$ 1.00	\$ 250.00
-Color Photocopies 11 x 17	125	EA	\$ 1.00	\$ 125.00
Plots				\$ -
-Bond (B/W)		SF		\$ -
-Mylar (B/W)		SF		\$ -
-Bond (Color)		SF		\$ -
-Mylar (Color)		SF		\$ -
-Color Paper (photo Quality)		SF		\$ -
Lodging (per person)	7	DAY	\$ 100.00	\$ 700.00
Meals (per person)	21	DAY	\$ 50.00	\$ 1,050.00
Car Rental	10	DAY	\$ 50.00	\$ 500.00
Noise Meter Rental	2	EA		\$ -
HazMat Data Search	1	LS	\$ 300.00	\$ 300.00
Editing		HR	\$ 65.00	\$ -
Mailing	1	EVENT	\$ 500.00	\$ 500.00
Public Hearing Facility	1	DAY	\$ 300.00	\$ 300.00
Newspaper Advertisements	4	EA	\$ 1,500.00	\$ 6,000.00
Court Reporter	1	DAY	\$ 800.00	\$ 800.00
Audio-Visual Equipment Rental	1	EVENT	\$ 1,500.00	\$ 1,500.00
Law Enforcement/Uniform Officer	3	HOUR	\$ 50.00	\$ 150.00
Translator (Spoken or Sign Language)	3	HOUR	\$ 100.00	\$ 300.00
Custodian for Public Involvement	3	HOUR	\$ 25.00	\$ 75.00
Sound Technican for Public Involvement	3	HOUR	\$ 50.00	\$ 150.00
Overnight Delivery Services	20	EA	\$ 15.00	\$ 300.00
Miscellaneous				

TOTAL EXPENSES \$ 14,983.75



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October 4, 2012

Mr. Larry Janak, PE
11111 Wilcrest Green, Suite 250
Houston, Texas 77042

RE: Additional Services for the Crabb River Road Widening Project, Fort Bend County, Texas
Supplemental Agreement No. 4

Dear Mr. Janak:

A Professional Services Agreement, signed and dated October 26, 2009, included a Scope of Services indicating the following tasks that Atkins (formerly PBS&J) would be responsible to complete as part of the Crabb River Road Widening Project: 1) Environmental Constraints Map, 2) Environmental Documentation Preparation, 3) Section 404 Wetland Delineation/Report, 4) Archeology Survey/Report, 5) Public Involvement and 6) NEPA/Environmental Task Management/EA Review. This letter serves as amendment to the original scope to provide additional services for Tasks 1, 2, 4 and 6.

Task 1 – Environmental Constraints Map

The Environmental Constraints Map will be updated to include recent aerials, the right-of-way of the detention ponds and identified environmental resources for the detention ponds as well as the modified project limits of Crabb River Road.

Task 2 – Environmental Documentation Preparation

The following sections of the Environmental Assessment document will be updated with information for the detention ponds and the modified project limits of Crabb River Road: Land Use, Geology, Soils and Prime/Unique Farmlands, Floodplains and Drainage Patterns, Water Quality, Waters of the United States, Ecological Resources, Archeology and Indirect and Cumulative Impacts.

Task 4 – Archeology Survey/Report

1. Pre-Field Evaluation

Prior to initiating the cultural resources survey, the Consultant will obtain and review available information to assess the general site conditions of the detention pond sites. Archeologists will also conduct a records review at the Texas Archeological Research Laboratory (TARL) in Austin, Texas to identify recorded archeological or historic sites within the project area. The Consultant will also review federal and state lists of recorded historic properties such as the National Register of Historic Places (NRHP), State Archeological Landmarks, and Official Texas Historic Markers. In addition, the Potential Archeological Liability Map (PALM) will be reviewed. This information will be digitized and overlaid onto the most recent available USGS topographic maps.

Based upon the above findings, a methodology will be determined and include criteria such distance from permanent sources of water, geology, topography, and level of disturbance. A scope of work (SOW) along with an antiquities permit application will be submitted to the Texas Historical Commission (THC) for approval.

2. Field Surveys

Survey methods will follow the Archeological Survey Standards for Texas established by the Texas Historical Commission (THC) and the recommendations of TxDOT's Houston PALM. Where shovel testing is recommended by the PALM, shovel tests will be conducted as outlined in Attachment A of the original scope of services.

Following completion of the survey, the Consultant will analyze all data, and provide a preliminary evaluation of all located cultural resources with regard to eligibility for inclusion to the NRHP. A report including background research and a summary of the field investigation results will be written in accordance with the Guidelines for Cultural Resources Management Reports established by the Council of Texas Archeologists. In addition, if any sites are encountered during the survey, a list of these sites will be presented along with the landowner information pertaining to the site location. Recommendations will be made regarding the potential for identified sites to meet established criteria for inclusion on the NRHP or designation as SAL.

3. Documentation

The Consultant will prepare a written summary of the methods and findings for the cultural resources survey. The Consultant will prepare topography based exhibits depicting the proposed detention pond sites and the location of the cultural resources sites, if encountered. Site photographs will also be included in the summary report. A draft report of these findings will be submitted to TxDOT for review and comment. The draft reports will be submitted as electronic deliverables. The report will be revised to address any comments received from TxDOT. Survey documents will be submitted to TARL for curation and 30 copies of the final report will be submitted to TxDOT with 20 copies for the THC.

Task 6 – NEPA/Environmental Task Management/EA Review

The Consultant's Project Manager and Task Leaders will be responsible for the oversight of all the activities discussed above. This will include: coordination of daily activities, attend meetings (assumed 2 meetings (2 hours each)) for one person to attend, provide monthly status reports in conjunction with monthly invoices and provide quality assurance/quality control throughout the duration of the project. This task is based on a 12-month duration from the time of the execution date.

COST ESTIMATE AND ASSUMPTIONS

Atkins proposes the previously stated scope of to provide support for an update to the EA and conduct the archeological surveys in order to address TxDOT comments.

Task 1	\$2,187.06
Task 2	\$7,938.29
Task 4	\$14,233.24
Task 6	\$4,232.00
<u>Expenses</u>	<u>\$1,471.65</u>
TOTAL	\$30,052.24

The total cost for this Supplemental Agreement No. 4 is not to exceed, \$30,052.24. Should the scope of work change and additional services are needed, Atkins will provide a supplemental cost estimate to complete the work.

ATKINS

We look forward to continuing our relationship with you on this and other projects. If you have any questions or would like to discuss this estimate in more detail, please call me at 281.529.4146.

Sincerely,
Heather Dusek

Heather Dusek
Project Manager

Attachment

Crabb River Road - US 59 to Lamar (SD Property
Summary of Tasks and Labor Requirements Estimate
Supplemental Agreement No. 4

Task	Contract Rate	Principal	Project Manager/Sr. Planner	Associate Project Manager/Planner	Sr. Scientist	Scientist	Science Technician	GIS Tech	Admin	Activity/Hours	Activity/Cost
1.0 Environmental Constraints Map Mapping and Field Recon for 3 Detention Ponds (2 revisions)											
	Subtotal	0	2	4	0	0	0	16	0	22	\$2,187.06
2.0 Environmental Documentation Preparation											
Geology, Soils and Prime/Unique Farmlands			1	2	4	2		0		9	\$1,042.41
Floodplains and Drainage Patterns			1	2	4	2		0		7	\$881.73
Water Quality			1	2	2	2		0		7	\$790.27
Waters of the United States			1	2	6	6		0		9	\$1,133.87
Ecological Resources			1	2	12	12		0		12	\$2,854.37
ICI				8				4			\$1,235.64
	Subtotal	0	5	18	28	16	0	4	0	44	\$7,938.29
4.0 Archeology											
Prefield					8	24		4		36	\$3,294.76
Survey					8	24	24			56	\$4,345.76
Documentation			4		10	32	16	8	6	76	\$6,582.72
	Subtotal	0	4	0	26	80	40	12	6	168	\$14,223.24
6.0 NEPA/Environmental Task Management/EA Review											
Management			12							12	\$1,896.60
Meetings (2)			4							4	\$632.20
EA Review			8	4						16	\$1,703.20
	Subtotal	0	24	4	0	0	0	0	0	32	\$4,232.00
	TOTAL									266	\$38,580.59

Crabb River Road - US 59 to Lamar ISD Property
Summary of Expenses
Supplemental Agreement No. 4

Direct Cost Item	Amount	Unit	Rate	Total
Mileage	250	MILE	\$0.50	\$125.00
Records Curation	0.5	DRW	\$1,455.30	\$727.65
Printing and Photocopying				
Photocopies 8.5 X 11	250	EA	\$0.10	\$25.00
Photocopies 11 X 17	0	EA	\$0.15	\$0.00
Color Photocopies 8.5 X 11	45	EA	\$1.00	\$45.00
Color Photocopies 11 X 17	0	EA	\$1.80	\$0.00
Meals	4	DAY	\$36.00	\$144.00
Editing	6	HR	\$65.00	\$390.00
Overnight Delivery Services	1	EA	\$15.00	\$15.00
TOTAL				\$1,471.65



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April 16, 2014

Mr. Larry Janak, PE
11111 Wilcrest Green, Suite 250
Houston, Texas 77042

RE: Additional Services for the Crabb River Road Widening Project, Fort Bend County, Texas
Supplemental Agreement No. 5

Dear Mr. Janak:

A Professional Services Agreement, signed and dated October 26, 2009, included a Scope of Services indicating the following tasks that Atkins (formerly PBS&J) would be responsible to complete as part of the Crabb River Road Widening Project: 1) Environmental Constraints Map, 2) Environmental Documentation Preparation, 3) Section 404 Wetland Delineation/Report, 4) Archeology Survey/Report, 5) Public Involvement and 6) NEPA/Environmental Task Management/EA Review. This letter serves as amendment to the original scope to provide additional services for Task 3.

Task 3 – Section 404 Wetland Delineation/Report

The Engineer will conduct formal wetland delineations to identify and map waters of the U.S., including wetlands, within the modified project limits, including the detention ponds and revised right-of-way alignment, of the Crabb River Road project. The Engineer will prepare a written report that summarizes the methods and findings of the wetland delineation evaluations. This report will provide sufficient data suitable for verification by the USACE Galveston District.

1. Field Delineation

Prior to beginning fieldwork, the County shall secure right of entry onto the new detention pond sites and new right-of-way. The engineer would conduct a formal wetland delineation to identify and map the jurisdictional waters of the U.S., including wetlands, within the project area. The field effort and approach would follow the requirements of the U.S. Army Corps of Engineers (USACE) Galveston District as specified by their Compliance Section for properties greater than 5 acres in size. Identification of potential jurisdictional waters would be based upon the routine determination methodology published in the *1987 Corps of Engineers Wetland Delineation Manual* (1987 Manual) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coast Plain Region (Version 2.0)*. This methodology includes documentation of vegetation changes in both wetland and upland communities with representative data points. The OHWM of waters within the property boundaries will be identified based on USACE regulations found at 33 CFR 328.3(e). A Preliminary Jurisdictional Determination Form (approved 5/30/07), which determines the presence of a significant nexus, will be completed for each potential wetland and water. This delineation would provide sufficient data suitable for verification by the USACE Galveston District.

The following parameters shall be updated according to the *1987 Manual* and *Regional Supplement* for the additional areas:

- Soils
- Vegetation
- Hydrology
- Surveying and Mapping of Wetland Boundaries
- Completion of Preliminary Jurisdictional Determination Form(s)

2. Wetland Documentation Letter

A revision to the Wetland Delineation report or letter report (whichever is appropriate) shall be updated and resubmitted to the County for either filing or concurrence by the USACE. As part of this report, the Engineer shall prepare topographic and aerial photography-based exhibits depicting the proposed project area and the location and boundaries of mapped waters of the U.S., including wetlands. Copies of data sheets, jurisdictional determination forms, and site photographs would also be included in the report. The report revisions will also include the modified project limits of Crabb River Road.

COST ESTIMATE AND ASSUMPTIONS

Atkins proposes the previously stated scope of to provide support for an update to the EA and conduct the wetland delineation in order to address TxDOT comments.

Task 3	\$30,866.34 (labor)
	<u>\$474.00 (expenses)</u>
TOTAL	\$31,340.34

The total cost for this Supplemental Agreement No. 5 is not to exceed, \$31,340.34. Should the scope of work change and additional services are needed, Atkins will provide a supplemental cost estimate to complete the work.

We look forward to continuing our relationship with you on this and other projects. If you have any questions or would like to discuss this estimate in more detail, please call me at 281.529.4146.

Sincerely,

Heather Durden

Heather Durden
Project Manager

Crabb River Road - US 59 to Lamar 1SD Property
Summary of Tasks and Labor Requirements Estimate
Supplemental Agreement No. 5

Task	Contract Rate	Principal	Project Manager/Sr. Planner	Associate Project Manager/Planner	Sr. Scientist	Scientist	Science Technician	GIS Tech	Admin	Activity/Hours	Activity/Cost
3.0 Section 404 Wetland Delineation / Report		\$258.47	\$158.05	\$109.70	\$126.07	\$80.34	\$58.71	\$89.51	\$77.25		
Field Delineation											
Report, JD Forms, Data Forms, Mapping			8	8	12	40	40	12	12	68	\$4,887.58
Verification / Revised Report / Coordination w USACE			8	32	40	40	12	8	4	132	\$11,217.96
	Subtotal	0	16	40	52	110	82	28	16	344	\$30,866.34
	Subtotal	0									\$0.00
	TOTAL									344	\$30,866.34

Crabb River Road - US 59 to Lamar ISD Property
Summary of Expenses
Supplemental Agreement No. 5

Direct Cost Item	Amount	Unit	Rate	Total
Mileage	200	MILE	\$0.50	\$100.00
Records Curation	0	DRW	\$1,455.30	\$0.00
Printing and Photocopying				
Photocopies 8.5 X 11	50	EA	\$0.10	\$5.00
Photocopies 11 X 17	0	EA	\$0.15	\$0.00
Color Photocopies 8.5 X 11	75	EA	\$1.00	\$75.00
Color Photocopies 11 X 17	35	EA	\$1.80	\$63.00
Meals	6	DAY	\$36.00	\$216.00
Editing	0	HR	\$65.00	\$0.00
Overnight Delivery Services	1	EA	\$15.00	\$15.00
TOTAL				\$474.00

**ATTACHMENT B
FEE SCHEDULE
PRELIMINARY ENGINEERING
FM2759/FM762 (CRABB RIVER ROAD) IMPROVEMENTS
8/18/2014**

IDC

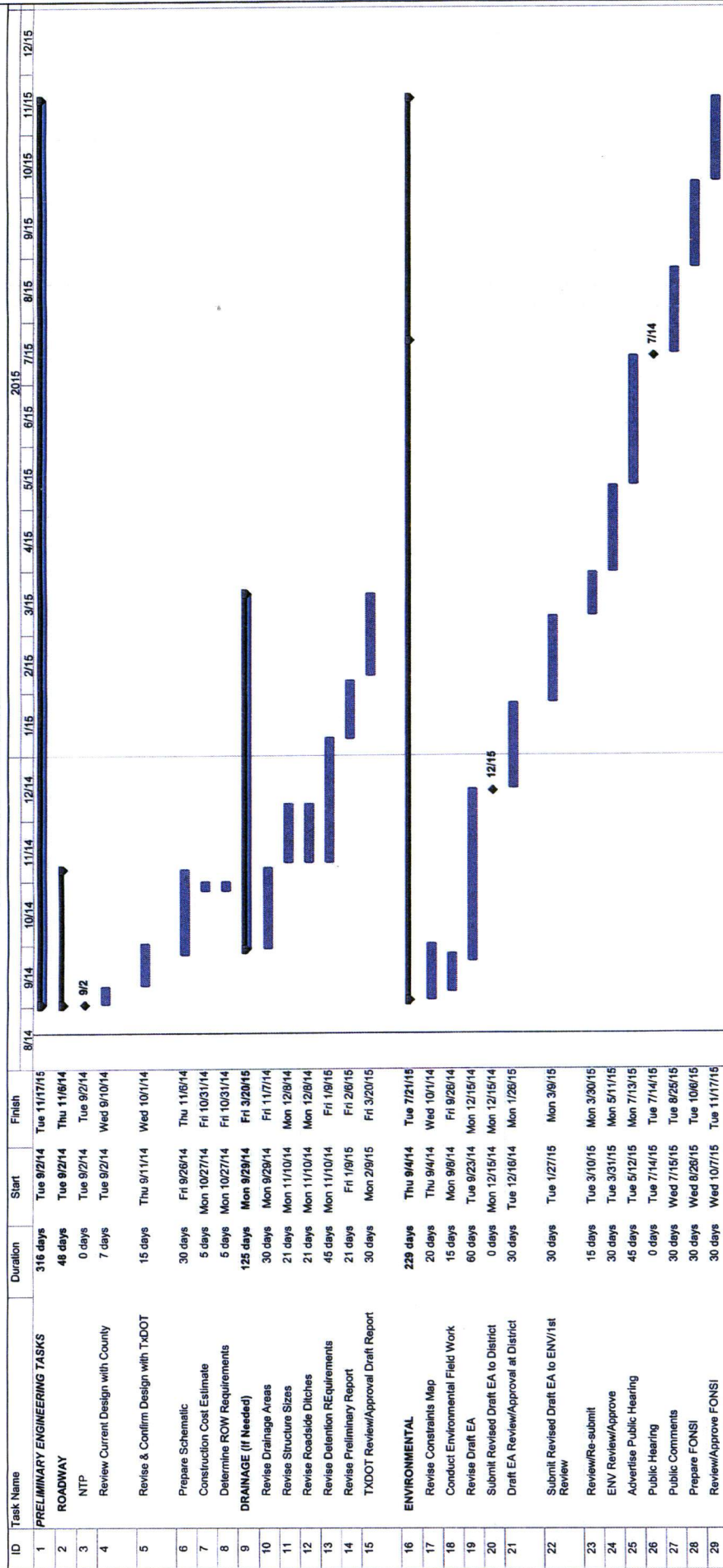
Task Description	Principal \$70	Project Manager \$64	Project Engineer \$55	Designer \$32	CADD Tech. \$28	Clerical \$24	Total Labor (Hours)	Direct Labor (Dollars)	Overhead 161.00% (Dollars)	Fixed Fee 12% (Dollars)	Total Amount (Dollars)
I. Project Management											
A. Develop & Maintain											
1. Project Schedules		4		12			16	\$640	\$1,030	\$200	\$1,871
2. Monthly Progress Report		12					12	\$768	\$1,236	\$241	\$2,245
3. Monthly Invoices (12 months)		12				12	24	\$1,056	\$1,700	\$331	\$3,087
B. Meet with County Engineer (8/meetings)		12	12				24	\$1,428	\$2,299	\$447	\$4,174
C. Coord work with County & TxDOT (6 meetings)		12	12				24	\$1,428	\$2,299	\$447	\$4,174
D. Coordinate and Monitor ENV Work	1	12	12			4	29	\$1,594	\$2,566	\$499	\$4,660
E. QA/QC Plan		8	16	16			40	\$1,904	\$3,065	\$596	\$5,566
Subtotal	1	72	52	12	0	16	129	\$6,914	\$11,132	\$2,165	\$25,777
II. Public Involvement											
A. Small Group Meetings (4 meetings)	4	8	8				20	\$1,232	1,984	386	\$3,601
B. Public Hearing	2	6	12		8		28	\$1,408	2,267	441	\$4,116
C. County/TxDOT Review (2 meetings)		8	8	8	16	0	40	\$1,656	2,666	519	\$4,841
D. Public Meeting Summary Report (by ENV sub)							0	\$0	0	0	\$0
Subtotal	6	22	28	8	24	0	88	\$4,296	\$6,917	\$1,346	\$12,558
III. Revise Preliminary Drainage Design											
A. Review Existing Drainage Study/Discuss with TxDOT		4	12				16	\$916	\$1,475	\$287	\$2,678
B. Review & Revise Drainage Areas		2	24	24			50	\$2,216	\$3,568	\$694	\$6,478
C. Review & Revise Size of Proposed Structures		2	12	24			38	\$1,556	\$2,505	\$487	\$4,548
D. Re-size Roadside Ditches		2	16	16			34	\$1,520	\$2,447	\$476	\$4,443
E. Revise Detention Storage Requirements	1	2	24	40			67	\$2,798	\$4,505	\$876	\$8,179
F. Revise Pond Layouts		2	12	16			30	\$1,300	\$2,093	\$407	\$3,800
G. Revise Preliminary Drainage Report	1	8	48	48		8	113	\$4,950	\$7,970	\$1,550	\$14,470
Subtotal	2	22	148	168	0	8	348	\$15,256	\$24,562	\$4,778	\$44,596
IV. Line Diagrammatic Schematic											
A. Revise Ultimate Schematic - Horiz & Vert Alignment	1	4	20	24	24		73	\$2,866	\$4,614	\$898	\$8,378
B. Revise Phase I south of BNSF RR	1	4	16	12	20		53	\$2,150	\$3,462	\$673	\$6,285
C. Re-locate Reading Road to Co. Major Thoroughfare Plan		1	2	4	8		15	\$526	\$847	\$165	\$1,538
D. Coordinate with BNSF RR		2	8				10	\$568	\$914	\$178	\$1,660
E. Develop Preliminary Bent Locations for Overpass		1	2	8	8		19	\$654	\$1,053	\$205	\$1,912
F. Incorporate S/W on Bridge and Bridge Approaches		1	4	6	12		23	\$812	\$1,307	\$254	\$2,374
G. Revise Typical Sections		2	8	12	24		46	\$1,624	\$2,615	\$509	\$4,747
H. Revise Left Turn Lanes Lengths			4	2	8		14	\$508	\$818	\$159	\$1,485
I. Revise North Tie-in to Existing Pavement		1	4	2	12		19	\$684	\$1,101	\$214	\$1,999
J. Revise Proposed ROW takings South of BNSF RR		2	4	10	4		20	\$780	\$1,256	\$244	\$2,280
K. Revise Preliminary Earthwork Volumes		2	2	16			20	\$750	\$1,208	\$235	\$2,192
L. Update Traffic Volumes on Line Diagrammatic			2		8		10	\$334	\$538	\$105	\$978
M. Revise Cost Estimates for Phase I and Phase II		1	2	16			19	\$686	\$1,104	\$215	\$2,005
N. Prepare Graphics File of Schematics			1		4		5	\$167	\$269	\$52	\$488
Subtotal	2	21	79	112	132	0	346	\$13,109	\$21,105	\$4,106	\$38,320
Total Labor	11	137	307	300	156	24	911	39,575	63,716	12,395	121,251
Direct Costs	Unit	Qty	Unit Cost								
Deliveries (\$25/mo @ 9 mo)	Job	9	\$25								\$225
Mileage (100mi/mo @ 9 mo)	Mi	900	\$0.55								\$495
Outside Reproduction (Meeting Exhibits, Reports, etc.)	Job	1	\$1,250								\$1,250
Total Direct Costs											\$1,970
TOTAL IDC COSTS											\$123,221
Firm	Task							Cost (Dollars)		Total Amount (Dollars)	
V. ENV Document											
PBQD											
Management & Coordination										\$16,244	
ENV Studies										\$39,811	
Noise Impacts										\$25,230	
Public Hearing										\$26,037	
Prepare EA Document										\$26,345	
Prepare FONSI										\$6,158	
Direct Costs										\$14,984	
Historic Resources Sub										\$11,747	
TOTAL PB											\$166,556
ATKINS (PBS&J)											
ENV Constraints Map										\$2,187	
ENV Studies										\$7,938	
Archeology										\$14,223	
Management & Coordination										\$4,231	
Wetlands Delineation Report										\$30,866	
Direct Costs										\$1,946	
TOTAL ATKINS											\$61,391
TOTAL SUBS											\$227,947
TOTAL PROJECT											\$351,168

ATTACHMENT B-1

**SUPPLEMENTAL FUNDING REQUIRED
8/18/2014**

Total Cost To Perform Work	\$351,168.00
Budget Remaining from WA No. 1	<u>\$156,253.00</u>
Supplemental Amount	\$194,915.00

ATTACHMENT C - SCHEDULE CRABB RIVER ROAD PRELIMINARY ENGINEERING



Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Progress

Deadline



CERTIFICATE OF LIABILITY INSURANCE

IDC-1

OP ID: KH

DATE (MM/DD/YYYY)

10/09/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER NewFirst Insurers Bldg 3, Suite 300 1120 Capital of Tx Hwy South Austin, TX 78746	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
INSURED IDCUS, Inc. dba IDC Inc. 8632 Fredricksburg Rd., #203 San Antonio, TX 78240	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A: Hartford Lloyd's Ins Co	
	INSURER B: Hartford Casualty Ins Co	
	INSURER C: Ironshore Specialty Insurance	
	INSURER D:	
INSURER E:		
INSURER F:		
NAIC #		

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**


THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY			65SBATM2869	01/25/2014	01/25/2015	EACH OCCURRENCE
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						\$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000
	MED EXP (Any one person) \$ 10,000						
	PERSONAL & ADV INJURY \$ 1,000,000						GENERAL AGGREGATE \$ 2,000,000
	PRODUCTS - COMP/OP AGG \$ 2,000,000						
	GEN'L AGGREGATE LIMIT APPLIES PER:						
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						
A	AUTOMOBILE LIABILITY			65SBATM2869	01/25/2014	01/25/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident) \$
	<input checked="" type="checkbox"/> HIRED AUTOS	<input checked="" type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (PER ACCIDENT) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB	<input checked="" type="checkbox"/> OCCUR		65SBATM2869	01/25/2014	01/25/2015	EACH OCCURRENCE \$ 2,000,000
	<input type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE \$
	DED <input checked="" type="checkbox"/> RETENTION \$ 10000						
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			65WECNV1424	01/25/2014	01/25/2015	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N <input type="checkbox"/>	N/A				E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Professional Liab			000763903	10/24/2013	10/24/2014	Each Occ 1,000,000
							Aggregate 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

RE: Project: FM2759/FM762 (Crabb River Road) Improvements
Environmental and Preliminary Engineering Services

CERTIFICATE HOLDER**CANCELLATION**

Crabb River Road Fort Bend, TX	CRABBRI
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.	
AUTHORIZED REPRESENTATIVE 	

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