



Addendum No. 1

Request for Proposals (RFP) No. 16-37 Courtesy Parkway Extension/ I-20 Overpass Project Design

November 17, 2016

RFP No. 16-37 is hereby amended as follows:

1. A revision has been made on page 10 of the RFP. On page 10, Section E, last paragraph, delete the wording "the deadline indicated in the Schedule of Events in this Section," and replace it with "the due date stated on page 2".
2. A revision has been made on page 11 of the RFP. On page 11, last paragraph, delete the first sentence stated as "The deadlines for submission of questions relating to the Qualifications-based RFP are the times and dates shown in the proposed *Schedule of Events* in this section." Replace this sentence with "The deadline for submission of questions relating to the Qualifications-based RFP is the time and date shown on page 3 of this RFP."
3. Revisions have been made to Section III, Scope of Services in this RFP. Please discard Section III, Scope of Services, pages 49 – 56 currently in the RFP and replace with the attached revised Section III, Scope of Services, pages 47 – 54.
4. All other conditions remain in full force and effect.
5. If a proposal has been submitted and anything in this Addendum causes the bidder to change the item offered or to increase or decrease the proposal price, the new price and/or changes will be inserted below:

6. All proposers under this RFP are kindly requested to acknowledge receipt of this Addendum on page 24, Part II of the Proposal Form.

Tina Malone

Tina Malone, CPPB CPPO
Procurement Officer
Department of Finance, Purchasing Division

Section III. Scope of Services

General

Consulting Services will generally include the following major areas, and as further defined under Transportation Project Design Services section of this scope of services.

Professional services are required from GDOT prequalified firms for preparation of a Project Design for the Courtesy Parkway Extension / I-20 Overpass Project based on the approved concept plan. A firm or firms with capabilities in environmental assessment and various elements of design for highways and bridges is required due to the relative size of the project, complexity of the project, required completion schedule of project, and specialized requirements of the project. The project consists of a new road on new alignment connecting Old Covington Highway via Courtesy Parkway on the north side of I-20 and Flat Shoals Road in the vicinity of Mission Ridge Drive on the south side of I-20. The new alignment road will include a 4-lane with flush median bridge over I-20 located about mid-way between exits 82 and 84 in Rockdale County. The services shall include preparation of an Environmental Document as required for the project to obtain GDOT and Federal Highway approval.

Description of Major Services

Major Road Improvement Design Services

The CONSULTANT shall provide design services and develop engineering plans subject to approval by the County, GDOT and Federal Highway, as required to provide for construction of new 4 lane roadway alignment, including an I-20 overpass bridge with connection to Iris Drive (the I-20 frontage road).

Consultants shall be pre-qualified with the GDOT for appropriate area/class; which may include classes 1.06(a), 1.06(b), 1.06(c), 1.06(d), 1.06(e), 1.06(f), 1.06(g), 1.06(h), 1.10, 3.02, 3.03, 3.05, 3.08, 3.09, 3.10, 3.12, 3.15, 4.02, 5.01, 5.02, 6.01(a), 6.02, 6.03 and others as applicable to the proposed design. All plans shall be prepared meeting appropriate Federal, State and County specifications and done at a scale as required by GDOT and as directed by ROCKDALE COUNTY. These services will include design of road alignment based on approved concept, right of way records research, survey services, bridge design, retaining wall design, foundation designs, collection of traffic counts will be required as needed traffic studies and projection services, drainage calculations, geotechnical engineering, environmental document, cost and quantity estimates and construction and right of way plan preparation. Substantial stakeholder involvement and public outreach including public hearing(s) will be required.

Preparation of field data base will include:

- aerial photography;
- field surveys;
- photogrammetric mapping;
- GIS support services;
- Digital Terrain Models (DTM);
- Location of Utilities; and
- Production of right-of-way and property line maps

These services will include intersection improvements design services at the project termini, and bridge design services. The construction and right of way plans shall follow GDOT format as directed by ROCKDALE COUNTY, and will include specifications, quantity calculations, typical sections, construction plan sheets, right of way plan sheets and tables, drainage plans and profiles, cross sections, mainline/side street/driveway plan sheets with profiles as appropriate, erosion control/water quality and monitoring plans as appropriate, traffic control/staging/detour plans as appropriate, permit applications,

utility plans both public and private including water/sewer design and adjustment, signing/marketing/signal design plans as appropriate, specifications and structural design for structures such as bridges and retaining walls.

Bridge Design Services

The consultant shall develop engineering plans for a new non-access bridge over I-20 and appurtenant connections to access road Iris Drive which is the I-20 frontage road on the south side of I-20. Consultants' or sub-consultant's personnel shall be pre-qualified with GDOT for the appropriate area/class. All plans shall be prepared meeting appropriate Federal, State and County specifications, as applicable, at a scale as required by GDOT or as directed by ROCKDALE COUNTY. These services will include bridge design, abutments, sub-surface investigations, soils analysis, retaining walls, right of way records research, survey services, drainage and hydraulic calculations, Federal Emergency Management Agency (FEMA) submittal and approval as required; cost and quantity estimates and construction, right of way plan and structural plan, details and all else necessary to accommodate the bridge overpass and appurtenant elements to transition to existing grade elevation on both sides of I-20. The construction, right of way and structural plans shall follow GDOT format and include specifications, quantity calculations, typical sections, construction plan sheets erosion control/water quality and monitoring plans as appropriate, traffic control/staging/detour plans as appropriate, utility plans both public and private including water/sewer design and adjustment, signing/marketing/signal plans as appropriate, specifications and structural design for structures such as pedestrian bridges if included in design, retaining walls, structural bridge plans including deck plans/deck sections, end wall designs as appropriate, beam details, bent design, superstructures and substructures, plans and details and miscellaneous details.

Survey Services

The consultant shall perform surveys as required in support of the design, right of way acquisition and construction of any pedestrian, road, and bridge elements under this contract and as otherwise required for the project. These surveys will include right of way and deed research, topographic and field surveys, engineering surveys, boundary surveys, legal descriptions of easements or parcels to be acquired, as-built surveys, right of way staking, surveys depicting right of way and/or easement area, locating utilities, and construction verification surveys for the bridge foundation / piles, columns, bents and abutment elements prior to construction of the superstructure.

Traffic Engineering Design Services

The CONSULTANT shall provide Traffic Signal warrant analysis and design services for any required new traffic signals resulting from the project. If new signals are required, a Traffic Signal Design and Timing Plan shall be developed for all affected locations, which shall include development and preparation, signal software database development, field implementation and verification, and fine tuning adjustments as required once the signals are placed in service. The design will include review and research of pertinent county and public records, research of design criteria and investigation of site conditions, preparation of plan package including any supporting documents, development of engineer's estimate of probable construction cost for this component of the project, preparation of traffic signal permit application and submittal of executive summary or final design report.

TRANSPORTATION PROJECT DESIGN SERVICES

In addition to the General Scope of Services elements described in the Section III ; the Scope for design services for this Transportation Project is described herein and will include, but not be limited to, the following elements:

1.0 DESCRIPTION OF THE PROJECT

The project consists of a new road that will connect to Old Covington Highway via Courtesy Parkway on the north side of I-20 and to Flat Shoals Road in the vicinity of Mission Ridge Drive south of I-20. The new alignment road will include a 4-lane with flush median bridge over I-20 located approximately mid-way between exits 82 and 84 in Rockdale County. The services shall include preparation of an Environmental Document as required for the new alignment road project to obtain GDOT and Federal Highway approval.

The Work consists of a Project Design for the Courtesy Parkway Extension / I-20 Overpass Project based on the existing approved Concept Report document. A firm or firms with capabilities in environmental assessment and various elements of design for highways and bridges is required due to the relative size of the project, complexity of the project, required completion schedule of project, and specialized requirements of the project.

The required Consulting services include the necessary work to develop the project design based on the existing approved concept report, environmental document preparation, database preparation, preliminary road design plans, final road design plans, and miscellaneous work items and will include water/sewer or other utility coordination to reflect any utility relocation plans if relocation is necessitated by the proposed project. The services will also require complete design of the I-20 overpass bridge, including lighting, retaining walls, foundations, noise barriers, and any other elements required for a complete design of the facility.

2.0 OUTLINE OF ENGINEERING SERVICES for PROJECT DESIGN

The services to be furnished by the CONSULTANT for Project Design shall be in compliance with Georgia Department of Transportation's (GDOT) Plan Development Process, the applicable guidelines of the American Association of State Highway Officials (AASHTO), GDOT's Standard Specification for Transportation Systems, PROJECT schedules, Plan Presentation Guide and other applicable GDOT guidelines. Links to additional GDOT requirements can be found on GDOT's Office of Consultant Design website, including pertinent Contract Appendices which are incorporated herein by reference. The GDOT standards and guidelines shall prevail in the event of any conflict with terms of this contract.

The CONSULTANT shall gather from the COUNTY and GDOT any available data and information that may be utilized in the preparation of the PROJECT plans. The CONSULTANT shall obtain and check any data and information furnished by the COUNTY and GDOT for accuracy and to ensure that the data and information meet appropriate design standards. The CONSULTANT shall report, in writing any conflicts, errors or omissions contained in the data and information furnished by the COUNTY and GDOT.

The CONSULTANT shall recommend, and secure the COUNTY's written approval of any required or proposed deviation in the PROJECT from the approved concept report, plan presentation and GDOT guidelines and the methods to be used in the plan preparation prior to submittal to GDOT and Federal Highway for approval.

The CONSULTANT shall receive the COUNTY's written approval to proceed with any phase of the PROJECT. Failure to receive such approval will result in the CONSULTANT assuming all costs for that phase until written approval to proceed has been obtained from the COUNTY.

The CONSULTANT shall prepare a schedule (Gantt chart format) in accordance with GDOT current schedule preparation requirements detailing the various submittals with respective dates as needed to show the relationships between the various phases of design. The schedule will need to be updated and submitted periodically to show the progress of the design and to document any necessary deviations from the GDOT-approved schedule.

3.0 Phase Ia - CONCEPTUAL DESIGN and DATA BASE Preparation for the Project

The Project Design is to be based on the existing approved Concept Report; consequently, some of the information required for approval of a concept report is already available and will not need to be developed. This section will include any additional information that may be required to develop the road alignment based on the Concept Report in accordance with GDOT and FHWA requirements for facilities on (or over) the Interstate, information required supplement or modify the existing Concept Report or to incorporate modification of the proposed road alignment.

1. The CONSULTANT shall prepare and submit for approval a traffic study and report which will include updated information as required for the following:
 - A. Measurement of existing daily (24 hour) traffic counts on all roads that will be directly impacted by the proposed alignment and peak hour turning movement counts for each intersection within 500 feet of the project limits. This should include average daily traffic (ADT) and morning (am) and evening (pm) peak hour volumes.
 - B. Collection and analysis of accident data in the vicinity of the Project termini and within 500' of the project termini.
 - C. Identification of deficient roadway geometrics at affected existing intersections and required modifications at the proposed new intersections based on the new alignment.
 - D. Analysis of existing traffic conditions to identify peak hours, peak-to-daily ratios and directional distributions. Capacity analysis will be performed to determine the operational efficiency of the affected intersections for existing traffic conditions.
 - E. Projection of design year peak hour traffic volumes for the PROJECT based on 20-year design from year the facility is expected to be opened to traffic. Capacity analysis will be performed to determine the operational efficiency of the intersections and storage lane requirements for the design year traffic conditions.
 - F. Evaluate impacts to traffic patterns altered as a result of the road design for this PROJECT and provide recommendation and design alternatives for presentation to the COUNTY.
2. Photogrammetrically derived digital terrain data obtained by the CONSULTANT shall be field verified. Any obscured areas shall be field surveyed. The COUNTY shall be provided sufficient evidence of field verification of obscure areas. Any error found in the digital mapping by the CONSULTANT shall be immediately reported to the COUNTY.
3. The CONSULTANT shall review the approved PROJECT Concept Report and base the road design generally on the approved alignment, if feasible. It is recognized by the parties that the approved Concept Report may need to be modified by the CONSULTANT and reapproved by GDOT if the road alignment developed by the CONSULTANT deviates from the approved concept, and as required during the course of design due to public input, environmental requirements or right of way considerations.
4. The CONSULTANT shall submit an updated traffic study report based on current field data, conceptual design plans and cost estimate for GDOT and COUNTY review and approval.
5. If changes to the concept report are required, they shall be submitted to the COUNTY for approval. Upon the COUNTY's concurrence after review by the COUNTY, the revisions shall be submitted to GDOT and FHWA as required. Upon GDOT and FHWA review, the CONSULTANT shall make any required revisions to the Concept Report.

6. Record existing conditions for the site with digital photographs. Photographs shall be submitted to the COUNTY on CD or flash drive.

4.0 Phase Ib – ENVIRONMENTAL DOCUMENT

The CONSULTANT shall prepare environmental studies, documentation and reports for the PROJECT that show that the PROJECT is in compliance with the provisions of the National Environmental Protection Act (NEPA). This shall include, but is not limited to, any and all archaeological, historical, ecological, air, noise, fresh water aquatic survey, underground storage tanks (UST), hazardous waste site, and environmental justice studies as required for the scope of the project. The CONSULTANT shall submit all environmental documents and reports for review and approval by the COUNTY, GDOT and the Federal Highway Administration.

1. CONSULTANT shall use GDOT's most current scope and procedure and NEPA guidelines for preparation of the Environmental Document.
2. It is anticipated that a full EA document will be required due to the new road alignment and the interstate overpass bridge.

5.0 Phase II - PRELIMINARY ROAD DESIGN PLANS

1. The CONSULTANT shall not begin work on this phase until the COUNTY issues written authorization to proceed on all or any portion of this phase of work.
2. The CONSULTANT shall prepare and submit to the COUNTY and upon COUNTY review, to GDOT and FHWA for approval, as applicable, preliminary roadway designs of the approved concept in accordance with requirements of the Georgia Department of Transportation. All drafting and design work performed on the PROJECT shall be done utilizing Microstation, InRoads or other approved compatible software and shall be organized based on GDOT guidelines on electronic file management. The Project Schedule shall be developed using Primavera or other approved compatible software.
3. The CONSULTANT shall prepare a preliminary drainage design in accordance with GDOT requirements and guidelines, covering the following:
 - A. Prepare a drainage map indicating drainage areas, flows, and existing and proposed major cross drains.
 - B. Develop a preliminary drainage layout showing major and minor cross drains, inlets, catch basins, retaining walls, water lines, sanitary sewers and bridges.
 - C. Investigate, analyze, and provide the design for drainage facilities necessary so as not to cause adverse drainage impacts upstream or downstream of the project. The CONSULTANT will be required as a part of this contract to provide for design of drainage detention facilities, if required for the proposed design, environmental requirements or regulations.
 - D. Drainage design for the PROJECT shall address pre-project and post-project conditions and provide recommendations to the COUNTY for mitigating potential impacts, and shall obtain COUNTY concurrence prior to incorporating the drainage elements into the project design.
 - E. Perform quality assurance review per current GDOT, FHWA and COUNTY guidelines.
4. The CONSULTANT shall provide calculations and documentation of applicable criteria, such as horizontal and vertical clearances, design speed for horizontal and vertical curves, stopping sight distance, roadway dimensions and super elevations.

5. The CONSULTANT shall prepare any and all required permit applications and supporting data for the COUNTY to sign and send to the appropriate permitting authorities, such as, but not limited to, railroads, Corps of Engineers, FEMA, EPD, etc.
6. The CONSULTANT shall perform all surveys, mapping, Phase I and Phase II Environmental Assessments and soil investigation studies needed for design of the PROJECT.
7. Upon completion of the preliminary plans, the CONSULTANT shall submit plans in to the COUNTY for review and upon COUNTY concurrence, submit to GDOT for approval along with a preliminary construction cost estimate. The CONSULTANT shall attend a preliminary field plan review. Prior to the field plan review, the CONSULTANT shall stake the proposed road alignment centerlines.
8. The CONSULTANT shall allow for attendance at meetings at GDOT or COUNTY offices, or on site, during the plan development process, or the PFPR review. Allow sufficient time for review procedure based on GDOT guidelines. Review comments from the COUNTY, GDOT and FHWA, as applicable shall be incorporated into the plans by the CONSULTANT.
9. The CONSULTANT shall prepare all necessary displays for required public information meetings and attend the meeting and public hearings to assist the COUNTY in answering questions and responding to written comments as required by the Environmental Document Procedures.
10. The CONSULTANT shall provide a court reporter as required for documenting public input at public information meetings and public hearings.

6.0 Phase III - FINAL ROAD DESIGN PLANS

1. The CONSULTANT shall not begin work on this phase until COUNTY issues written authorization to proceed on all or any portion of this phase of work.
2. The CONSULTANT shall prepare final right-of-way plans and submit for review and approval. Right-of-way plans shall meet the criteria set forth by GDOT. Final right-of-way plans shall be submitted to the COUNTY, GDOT, and FHWA, as applicable, in accordance with the approved project schedule.
3. After the right-of-way plans have been approved, and when directed by the COUNTY, the CONSULTANT shall stake all required right-of-way and easements as required by GDOT. The Consultant shall also prepare a drawing, deed description, and ROW data information for each parcel on a 8-1/2" x 11" format.
4. The CONSULTANT's services for the roadway construction plans shall be in accordance with the direction from the COUNTY and GDOT requirements and shall include, but not be limited to, the following:
 - A. Conduct additional field surveys to obtain data necessary for the CONSULTANT to complete final design in accordance with COUNTY, GDOT and FHWA requirements and other stipulations of this agreement.
 - B. Prepare plan and profile sheets for the bridge, roads, streets, driveways and any realignments and detours. Plans shall show all the necessary information as determined by the COUNTY to permit construction stake-out and to indicate and delineate details necessary for the construction of the complete facility by a construction contractor, including right-of-way and easements with appropriate stations and offsets.
 - C. Prepare detailed plan sheets for all design features requiring additional detailed design information, including such examples as the geometrics of intersections at 1" = 20' scale, or as required by Plan Presentation Guidelines, identifying radius points, special super elevation requirements, spot elevations or curb line profiles, curb cut ramp locations, right-of-way and other details necessary to clearly allow

construction stakeout, local street treatment, minor structures, drainage facilities, and appurtenances, such as utilities and details covering any special issues encountered during the project design.

- D. Prepare drainage design in accordance with design practice of GDOT utilizing current GDOT drainage manuals, including analysis and design forms. Prepare complete drainage cross sections for all drainage systems including structure numbers, type, location, inverts, pipe sizes, existing and proposed ground lines. Headwater elevations shall be shown on major drainage elements.
- E. Prepare cross sections of the bridge, highways, intersections, roads, streets, and any detours showing the existing and proposed finished grade and sub grade elevations. Intermediate stations will be required as necessary to fully clarify the intent of the Plans (e.g., Driveways). To ensure proper coordination, the CONSULTANT shall plot storm drainage, water lines or other utilities on the cross sections.
- F. Prepare utility plans including existing utility locations as determined from markups provided by the Utility Companies. Proposed utility relocations will be shown, such information being furnished by each utility owner, through the CONSULTANT and transferred to the plans by the CONSULTANT. The CONSULTANT shall coordinate and attend technical meetings with utility companies and the COUNTY for the purposes of discussing utility conflicts and necessary relocations. The CONSULTANT shall advise and coordinate with the COUNTY on these meetings.
- G. Prepare a detailed construction sequence and plans that also indicate maintenance of traffic procedures to be utilized during each construction phase. Plans shall show details of detour routings, temporary pavements, required restrictions to construction activity, and special traffic control devices. The CONSULTANT shall include in the sequence, and any detour plans, as many sequences as necessary to coordinate the Project. This detailed construction sequence shall be incorporated in the Construction Documents.
- H. Prepare signing and marking plans and provide signing and marking details as required for the Project.
- I. Prepare traffic signal plans indicating appropriate timing, phasing, and displays. Alternative signal posts and mast arm designs shall be considered at existing and proposed signal locations.
- J. Prepare Special Provisions and/or Supplemental Specifications as required following the same format as the Georgia Department of Transportation Standard Specifications for Transportation Systems current edition, modifying, augmenting, or deleting the provisions of the Standard Specifications as required. Prepare complete contract documents according to COUNTY procedures for advertising for bids.
- K. Prepare Summary of Quantities, Schedule of Quantities, and Detailed Estimate in accordance with GDOT requirements and as directed by the COUNTY.
- L. Prepare an Estimate of Construction Cost for each construction contract based on the approved contract drawings, using estimated quantities and current GDOT mean unit price data or other current bid data.
- M. Design and prepare complete construction plans for the bridge and any retaining walls, including wall envelopes. The plans shall include control points and be fully dimensioned geometric layout to permit staking in the field without additional computation. All dimensions and elevations required for construction shall be shown on the final plans.
- N. Perform a quality assurance review per current FHWA, GDOT & COUNTY practice.
- O. Construction Documents include Estimate of Probable Construction Costs, Proposed Construction Agreement, Bid Proposal, General Conditions based on the COUNTY'S boiler plate, Special Provisions and Bid Schedule.

5. Final plans shall be prepared in conformity with current practices of GDOT with regard to method of presentation, scales, pay items, special drawings and summaries thereof. Plans shall be submitted to the COUNTY and GDOT for review in accordance with the approved project schedule.
6. The CONSULTANT shall submit up final plans to the COUNTY and GDOT in accordance with the project schedule. CONSULTANT shall attend a final field plan review, which will include representatives of the COUNTY and the Georgia Department of Transportation.. Comments received from the COUNTY and GDOT as a result of this final review shall be incorporated into the design by the CONSULTANT.
7. The CONSULTANT shall take special note that due to the need for possible adjustments to the plans during the right-of-way negotiations, there some revisions may be needed that do not affect the overall scope of the project and are relatively minor in nature. Some of these changes or revisions needed may be, but are not limited to, the following: addition or deletion of retaining walls, relocation of drainage, relocation of driveway tie-ins, revising construction limits or other revisions necessary as part of the right-of-way negotiations as required by the COUNTY.
9. The CONSULTANT, at no extra cost to the COUNTY, may be called upon and shall be prepared to explain or otherwise defend his/her road design with regard to utility relocations, property damages, safety requirements, vertical and horizontal road alignment, drainage design and considerations or other questions regarding the project designs.
10. The CONSULTANT may be requested to participate in pre-bid, pre-construction and up to three other public meetings as required by the COUNTY.

7.0 PHASE IV – Utility Coordination and Water/Sewer Relocation Plans

The Consultant shall prepare and submit all plans and documents required to coordinate utility plans and obtain signoff by utilities and approval of the utilities plan from GDOT.

The water and sanitary sewer locations shall be coordinated with Rockdale Water Resources Department. Rockdale Water Resources shall be responsible for any relocation plans which will be included in the construction documents. However, the CONSULTANT shall provide details for brackets or other method of attachment for any utilities that will attach to the bridge structure.

8.0 Phase V - Miscellaneous

The CONSULTANT may be required to perform additional services or tasks related to the work outlined in the Scope of this Qualifications-based RFP that are specific to site conditions and are not typical in nature. The CONSULTANT shall include in this section a project contingency amount of 15% of the total design fee for the project. The CONSULTANT shall, at the COUNTY's request, submit a proposal indicating work hours and not-to-exceed costs to the COUNTY for approval for such tasks beyond the defined scope of this project. The CONSULTANT shall not begin work on any task until the COUNTY issues written authorization to proceed. The services for this phase may include, but are not necessarily limited to the following, and when authorized by the COUNTY.

The services for this phase when authorized by the COUNTY may include, but are not necessarily limited to, the following:

1. Design and detailing of storm water detention facilities required for the road design, outside the right of way.
2. Additional surveys which may be required for elements beyond the proposed road right of way.
3. Revisions which may be requested as a result of negotiations for right-of-way, other than minor revisions identified in the Final Design and Construction Plans Phase.
4. Specialized Landscaping plans if required.
5. Review of shop drawings or material submittals prior to, or during the construction phase.