

January 10, 2023

Mr. Jeff Edmonds, P.E.  
Director of Engineering Services  
City of Corpus Christi  
PO Box 9277  
Corpus Christi, TX 78469-9277

**Re: Scope of Services  
Residential Street Rebuild – Contract Amendment 2  
City Project No. Bond 2018, 18164A**

Dear Mr. Edmonds,

On behalf of Hanson we would like to thank you for the opportunity to continue to assist the City with the completion of this program. The basic scope of the project includes the re-construction and rehabilitation of numerous streets throughout the City. The original construction budget included a two year program funded by Bond 2018 Funds, City Street Funds and City Utility Funds. During the course of completing the project Hanson was requested to provide additional services related to the Year One and Year Two scope. These additional services were approved through Amendment 1. Hanson has again been requested to provide additional services which include the issuance of a separate bid package, changing the bid package format and including the full replacement of water and sewer utilities on a majority of the streets.

**Additional Amendment 2 Items**

1. Hanson was previously authorized to proceed with the completion of Delivery Orders for sixteen street sections identified by the City. The design was proceeding and each section was partially completed in accordance with the DO delivery process. At the request of the City, these sections will now be transitioned from the DO design process to be part of a conventional design process for a Bid/Construction set and included as part of a larger bid packet to be issued early 2023.
2. Utility replacement will be added to the scope of work for the identified roadways. The new construction drawings will now include the full design and replacement of existing utilities including water, wastewater, and some storm sewer.
3. The final deliverable for bids will include all the Street Improvements, ADA/Sidewalk and the utilities.

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Hanson proposes to complete the additional services under Amendment 2 for a fee of \$906,376.50 with a re-stated total fee of **\$6,158,879.89**. Attached is Exhibit "A" summarizing the scope of work as well as Summary of Fees and the proposed project schedule.

We thank you for this opportunity and look forward to working with you on this project.

Sincerely,

Hanson Professional Services Inc.

A handwritten signature in blue ink, appearing to read "Will R", is positioned above the printed name of Wilfredo Rivera, Jr.

Wilfredo Rivera, Jr., P.E.  
Vice-President

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 Director of Engineering Services  
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## SUMMARY OF FEES

BOND 2018 RESIDENTIAL STREET (RSRP) CITY PROJECT 18164A				
Hanson Professional Services #18L0316A (01/10/23)				
Fee for Basic Services	Year 1 and Year 2	Amend. No.1	Amend. No.2	Contract Sub-Total
1. Preliminary Phase			Total	\$ -
a. Year One	\$ 175,075.11	\$ -	\$ -	\$ 175,075.11
b. Year Two	\$ 102,821.89	\$ 95,365.00	\$ -	\$ 198,186.89
2. Design Phase (Bid Set for new 21 Streets)	\$ 81,208.00	\$ 701,043.50	\$ 653,065.50	\$ 1,435,317.00
3. Bid Phase	\$ 24,690.00	\$ 40,098.00	\$ 23,046.00	\$ 87,834.00
4 Construction Phase (DO PREPARATION)				
a. Year One	\$ 1,371,218.94	\$ -	\$ -	\$ 1,371,218.94
b. Year Two	\$ 805,319.06	\$ 401,781.00	\$ -	\$ 1,207,100.06
5. Construction Administration				
a. Year One (Time and Materials)	\$ 126,000.00	\$ -	\$ -	\$ 126,000.00
b. Year Two (Optional Time and Materials)	\$ 74,000.00	\$ 151,519.50	\$ 79,775.50	\$ 305,295.00
<b>SUB-TOTAL BASIC SERVICES</b>	<b>\$ 2,760,333.00</b>	<b>\$ 1,389,807.00</b>	<b>\$ 755,887.00</b>	<b>\$ 4,906,027.00</b>
<b>ADDITIONAL SERVICES</b>				
1. Topographic Surveying (Full blown n Topo, Utilities, Etc.)				
a. Year One	\$ 271,555.20	\$ -	\$ -	\$ 271,555.20
b. Year Two	\$ 159,484.80	\$ 461,182.50	\$ 45,905.50	\$ 666,572.80
2. Public Outreach				
a. Year One	\$ 45,703.66	\$ -	\$ -	\$ 45,703.66
b. Year Two	\$ 26,841.83	\$ 31,290.00	\$ -	\$ 58,131.83
3 ADA Permitting				
a. Year One	\$ 26,794.15	\$ -	\$ -	\$ 26,794.15
b. Year Two (Optional)	\$ 15,736.25	\$ 19,711.00	\$ -	\$ 35,447.25
4. Additional DO preparation (20 Sheets, Optional)	\$ 52,140.00	\$ (52,140.00)	\$ 104,584.00	\$ 104,584.00
5. Warranty Period				
a. Year One	\$ 19,318.32	\$ -	\$ -	\$ 19,318.32
b. Year Two	\$ 11,345.68	\$ 13,400.00	\$ -	\$ 24,745.68
Additional Survey				
Non Billable				
Sub-Total Additional Services	\$ 628,919.89	\$ 473,443.50	\$ 150,489.50	\$ 1,252,852.89
<b>Total Authorized Fee</b>	<b>\$ 3,389,252.89</b>	<b>\$ 1,863,250.50</b>	<b>\$ 906,376.50</b>	<b>\$ 6,158,879.89</b>

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## SUMMARY OF SCOPE AMENDMENT 2

### **SCOPE OF WORK**

The scope will supplement the existing residential roadway program under contract. The requirements under the original contract remain in place. The intent of this supplemental program is to issue two Bid Packets that will be prepared for awarding two contracts. The City has requested that Utility replacement be added to the scope of work. The scope provides a summary of the additive scope, and the intent is to issue the following Bid Packets.

Base Bid I – Street Reconstruction/Rehabilitation

Base Bid J – Street Reconstruction/Rehabilitation, Including Utility Replacement

### **Basic Services:**

#### **Preliminary Phase**

1. There will not be any preliminary phase services. An ELR is not part of the scope. The scope of work will be assessed during the design phase coordination.

#### **Design Phase (Two Bid Sets)**

1. Project Meetings with City staff will be held at key milestones. The initial meeting will be to discuss the formatting required for the Plans and Specifications. Follow up meetings will be conducted to review the 90% and Final Submittal.
2. Submit the draft documents to the designated City staff for review and comment. Including a 90% and Final submittal. The bid plan set will include approximately 486 plan sheets.
3. Update the draft plan submittal based on City Staff feedback. Submit the final bid package for approval.
4. Prepare a set of plans and specifications that will be utilized by the City for bidding in order to issue two (2) contracts.

#### **Bidding Phase-(Two Separate Bid Packets)**

Assist with the Bidding process, consisting of attending pre-bid meetings, bid openings, addressing questions and issuing addenda and recommending award. Provide documents required for CivCast.

- a) Participate in the pre-bid conference to discuss scope of work and to answer scope questions.
- b) Review all questions concerning the bid documents and prepare any revisions to the plans, specifications, and bid form that are necessary.

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- c) Assist with the evaluation of bids; analyze bids, and make recommendation concerning award of the contract.
- d) Assist with the review of the Contractor's Statement of Experience and confirm it meets Contract requirements.
- e) For bids over budget, the A/E will confer with City staff and provide and, if necessary, make such revisions to the bid documents as the City staff deems necessary to re-advertise the Project for bids.
- f) Provide two (2) hard copy sets and one (1) electronic set of **conformed drawings and conformed Contract Documents** (PDF and original format [CAD/Word/etc.]) to the City.

### **Construction Phase – Two Contracts**

The A/E will perform contract administration to include the following:

- a) Participate in pre-construction meeting conference and provide a recommended agenda for critical construction activities and elements impacting the project.
- b) Review Contractor submittals and operating and maintenance manuals for conformance to Contract Documents.
- c) If requested by the City, review and interpret field and laboratory tests.
- d) Provide interpretations and clarifications of the Contract Documents for the Contractor and authorize required changes, which do not affect the Contractor's price and are not contrary to the general interest of the City under the Contract as requested by the Owner's Authorized Representative (OAR).
- e) Make periodic visits to the site of the Project to confer with the City Project Inspector and Contractor to observe the general progress and quality of work, and to determine, in general, if the work is being done in accordance with the Contract Documents. This will not be confused with the project representative observation or continuous monitoring of the progress of construction.
- f) Provide interpretations and clarifications of the plans and specifications for the Contractor and recommendations to the City for minor changes which do not affect the Contractor's price and are not contrary to the general interest of the City under the Contract as requested by the OAR
- g) Attend final inspection with City staff, provide punch list items to the City's Construction Engineers for Contractor completion, and provide the City with a Certificate of Completion for the Project upon successful completion of the Project.
- h) Review Contractor-provided construction "red-line" drawings. Prepare Project Record Drawings and provide a reproducible set and electronic file (both PDF and AutoCAD r.14 or later) within one (1) month of receiving the Contractor's red-line drawings. All drawings shall be CADD drawn using dwg format in AutoCAD, and graphics data will be in .dxf format with each layer being provided in a separate file.

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Attribute data will be provided in ASCII format in tabular form. All electronic data will be compatible with the City GIS system. The Record Drawings should incorporate the Contractor's red-lines and identify all changes made during construction. The Drawing Cover and each sheet should be clearly identified as the Record Drawing and should indicate the basis and date.

- i) When requested by the OAR, assist in addressing Request for Information (RFI) submitted by the Contractor.

The City staff will:

- a) Prepare applications/estimates for payments to Contractor.
- b) Conduct the final inspection with the Engineer.

#### **Additional Services:**

1. Permit Preparation. Furnish the City all engineering data and documentation necessary for all required permits. The A/E will prepare this documentation for all required signatures. The A/E will prepare and submit identified permits **as applicable** to the appropriate local, state, and federal authorities, including:
  - a) NPDES Permit/Amendments (including SSC, NOI NOT)
  - b) Texas Department of Licensing and Regulation (TDLR)
  - c) TxDOT permitting
1. Topographic and Right-of-Way (ROW) Survey. All work must comply with Category 1-A, Condition I specifications of the Texas Society of Professional Surveyors' Manual of Practice for Land Surveying in the State of Texas, latest edition. All work must be tied to and in conformance with the City's Global Positioning System (GPS) control network. All work must comply with all TxDOT requirements as applicable. Include references tying Control Points to a minimum of two (2) registered NGS Benchmark Monuments in the vicinity of the Project that will not be disturbed by construction. Survey sheets shall be sealed, provided to the City and included in the bid document plan set.
  - a) Establish Horizontal and Vertical Control.
  - b) Establish both primary and secondary horizontal/vertical control.
  - c) Set project control points for Horizontal and Vertical Control outside the limits of area that will be disturbed by construction.
  - d) Horizontal control will be based on NAD 83 State plane coordinates (South Zone), and the data will have no adjustment factor applied – i.e. – the coordinate data will remain in grid.
  - e) Vertical control will be based on NAVD 88.
  - f) All control work will be established using conventional (non-GPS) methods. Perform topographic surveys to gather existing condition information.
  - g) Locate proposed soil/pavement core holes as drilled by the City's Geotechnical Engineering Consultant.
  - h) Obtain x, y, and z coordinates of all accessible existing wastewater, storm water, water, IT and gas lines as well as any other lines owned by third-parties and locate all visible utilities,

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wells and signs within the apparent ROW width along project limits. Survey shall include utility marking from the Texas 811 request.

- i) Open accessible manholes and inlets to obtain information on structure invert, type, and size, and all related pipe size, type, invert, orientation, and flow direction.
  - j) Everything up to and including Level B subsurface engineering (SUE) is to be included in Topographic Survey. Surveying services related to Level A SUE are not included in Topographic and ROW Survey services but shall be provided as part of the scope of work for SUE below, if needed.
  - k) Locate existing features within the apparent ROW.
  - l) Locate and identify trees, at least five inches in diameter, and areas of significant landscape or shrubs within the apparent ROW.
  - m) Generate electronic planimetric base map for use in project design.
  - n) Obtain finished floor elevations of critical and habitable structures along the roadway corridor as needed to certify drainage design criteria are met.
  - o) The survey should not stop at the property line but should extend beyond the property line as needed to pick up features and surface flow patterns in the vicinity of the Project that could potentially impact the design or be impacted by the construction. This includes features such as existing swales or ditches, foundations, loading docks/overhead doors, driveways, parking lots, etc.
  - p) Research plats, ROW maps, deed, easements, and survey for fence corners, monuments, and iron pins within the existing ROW and analyze to establish existing apparent ROW.
  - q) Provide a preliminary base map containing apparent ROW, which will be used by the A/E to develop the proposed alignment and its position relative to the existing and proposed ROW. This preliminary base map must show lot or property lines, addresses, and significant business/facility names.
2. Public Involvement. Participate in public meetings (3 hours per meeting). It is anticipated that one public meeting will be held in each of the five City Districts for a total of five (5) public meetings. Hanson will prepare required exhibits for meetings. The City will schedule and coordinate the agenda and presentation material for the public meetings and prepare and mail out all notices for the meetings to the affected stakeholders.

The City will provide all public outreach and citizen/stakeholder coordination during the design and construction of the project including one-on-one stakeholder meetings. Hanson staff will be available to coordinate with residents/property owners during design when warranted and requested by City Staff. If the proposed improvements will affect a homeowners landscaping, property, or ADA accessibility, Hanson would be available to discuss the improvements along with a City Inspector with the property owner.

- 3. Additional DO preparation (20 Sheet, Allowance). It is anticipated that the final scope of work may change based on existing conditions, funding or other City Priorities. This item will be used to supplement the basic services as needed and as approved by the City Project Manager.
- 4. Construction Observation Services. (NOT AUTHORIZED) To be Determined
- 5. Warranty Phase. Provide a maintenance guaranty inspection toward the end of the one-year period after acceptance of the Project. Note defects requiring contractor action to maintain,

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repair, fix, restore, patch, or replace improvement under the maintenance guaranty terms of the contract. Document the condition and prepare a report for the City staff of the locations and conditions requiring action, with its recommendation for the method or action to best correct defective conditions and submit to City Staff. Complete the inspection and prepare the report no later than sixty (60) days prior to the end of the maintenance guaranty period.