

September 6, 2022

Mr. Jeffrey H. Edmonds
Director of Engineering Services
City of Corpus Christi
1201 Leopard St.
3rd Floor City Hall
Corpus Christi, TX 78401

Re: **Scope of Services – Northwest Blvd Drainage Improvements**

Dear Mr. Edmonds.

On behalf of Hanson Professional Services we are pleased to provide this scope and fee for the completion of a drainage assessment and recommendations related to the area along North Boulevard (FM 624) from County Road 69 to FM 1889. Hanson visited the site along with City of Corpus Christi Representatives and attended a project scoping meeting to discuss the intent of the project.

The proposed scope of work will be broken up into five phases:

1. Preliminary Phase.
2. Engineering Drainage Study
3. Implementation Plan
4. Design Phase (Allowance)
5. Surveying/Base Map Preparation

Hanson Professional Services Inc. proposes to perform the scope of services summarized above for the lump-sum fee of **\$143,057.50**. Our team members are ready to proceed with the work. We thank you for this opportunity and look forward to working with you on this project.

Kind regards,

HANSON PROFESSIONAL SERVICES INC.



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

SCOPE OF WORK

The intent of the project is to evaluate options for improving drainage for an area that is adjacent to Northwest Blvd (FM 624) roughly 4500 LF from County Road 69 to FM 1889. Along this section FM 624 is a raised 4-lane divided highway with roadside ditches and driveway culverts. The area drains to the north to the Nueces River Basin on the northern side of FM 624. The area on the southern side of the highway tends to flow in a southerly direction into the upper Oso Creek Basin. The developed area adjacent to this section of highway tends to be much lower than the highway and experiences issues with flooding possibly due to inadequate infrastructure to convey the flow to an adequate outfall.

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1. Preliminary Phase.
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PRELIMINARY PHASE

1. Hanson will conduct a coordination meeting with the major parties involved including the City of Corpus Christi, TxDOT, Nueces County Water Control and Improvements District #3 and Nueces County. The intent of the meeting will be to get a thorough understanding of existing concerns, boundaries, and existing/future plans for improvements in the area.
2. Hanson will collect and review all existing plans and documents that would affect the drainage improvements. Including the City's current/new drainage master plan, the county's drainage master plan, TxDOT's master plan and the future development plan for the area.
3. Hanson will conduct a thorough site visit of the area in order to determine the major/minor drainage issues, the existing constraints, and probable improvement opportunities.

ENGINEERING DRAINAGE STUDY

1. Hanson will prepare a study to document the existing conditions, determine the existing conveyance capacity of the drainage system and recommend improvements to help alleviate drainage issues and plan for future development. The study will include:
 - a. Delineate the existing Drainage Basin(s). Utilize a combination of existing lidar/aerials to be supplemented with additional on the ground surveys and new drone surveys.
 - b. A detailed Hydrologic Model for existing conditions and future built out conditions.
 - c. A detailed Hydraulic Model for existing conditions and future conditions.
 - d. A master plan for the area that identifies opportunities for improving the drainage and complies with future development plans in the area.

- e. A written report summarizing the findings, recommendations, and associated Opinions of Probable Construction Costs. The draft version of the report will be provided to the City for review and comment. Submit one draft report for review and comment.
- f. Attend a one review meeting with the City and other stakeholders to discuss draft report.
- g. Hanson will finalize the report and submit to the City for future implementation of the plan.

IMPLEMENTATION PLAN

1. Hanson will work with the City to develop an implementation plan for the area.
2. The Plan will identify some of the minor/major components which could be constructed or improved in order to alleviate drainage in the area.
3. The plan will take into consideration the findings and recommendations of the drainage study.
4. The plan will discuss potential funding opportunities for financing the improvements.
5. The plan will include a priority listing of items which should be completed earlier in order to ensure that the downstream or outfall improvements are sufficient.
6. The plan will be provided to the City to be utilized as a tool for planning funding and phasing of the overall improvements in the area.

DESIGN PHASE (ALLOWANCE T&M)

1. If design/construction funding is available, Hanson will work with the City to design/implement some of the minor localized components which could be constructed or improved in order to alleviate drainage in the area.
2. Construction will be completed utilizing the City's existing drainage contractor under a Master Service Agreement.
3. The effort will be billed on a Time and Material Basis

SURVEYING/BASE MAPS/AERIAL

1. In order to provide a detailed assessment of the area, current topographic data and aerial photography will be required.
2. Hanson will complete a detailed topographic survey of the sub-basin area including impacted highways, roadways, drainage structures, adjacent properties, and outfall structures.
3. Hanson will complete a new high resolution drone aerial survey to provide video and still photos of key areas that will be improved.
4. The topographic survey will be utilized for the H/H study as well as for preliminary design of the recommended improvements.

SUMMARY OF FEES



Jeffrey H. Edmonds
 September 6, 2022

Project Name : Northwest Blvd Drainage					
Proj. No . : TBE					
Project Limits : CR 69 to FM 1889					
Fee for Basic Services					
	Original Contract	Amend. #1	Amend #2	Amend. 3	Contract Sub-Total
1. Preliminary Phase	\$ 10,515.00				\$ 10,515.00
2. Report Phase	\$ 75,921.00				\$ 75,921.00
3. Implementation Plan	\$ 7,028.00				\$ 7,028.00
4. Design Phase (Allow ance T&M)	\$ 19,004.00				\$ 19,004.00
Subtotal Basic Service Fees	\$ 112,468.00	\$ -	\$ -		\$ 112,468.00
Fee for Additional Services					
1. Topogrpahic Survey	\$ 30,589.50				\$ 30,589.50
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
		\$ -			\$ -
		\$ -			\$ -
Sub-Total Additional Services	\$ 30,589.50	\$ -	\$ -	\$ -	\$ 30,589.50
Total Authorized Fee	\$ 143,057.50	\$ -	\$ -	\$ -	\$ 143,057.50

PROJECT SCHEDULE

Northwest Blvd Drainage	
Activity	Completion Date
Notice to Proceed	October, 2022
Preliminary Phase	November, 2022
Engineering Drainage Study	January, 2023
Implementation Plan	February, 2023
Surveying/Bas Maps	November, 2022
Design Phase (Optional)	March, 2023

