



CITY COUNCIL

AGENDA REQUEST

AGENDA OF:	06-01-10	AGENDA REQUEST NO:	III-A
INITIATED BY:	PETE POLITO, CONTRACT SERVICES/CIP MANAGER	RESPONSIBLE DEPARTMENT:	UTILITIES
PRESENTED BY:	SUELLEN STAGGS, DIRECTOR OF UTILITIES <i>SMS</i>	DEPARTMENT HEAD:	SUELLEN STAGGS, DIRECTOR OF UTILITIES <i>SMS</i>
		ADDITIONAL DEPARTMENT HEAD (S):	CHRISTOPHER STEUBING, P.E. CFM, CITY ENGINEER <i>CLS</i>

SUBJECT / PROCEEDING: EAST & WEST INTERCEPTOR REHABILITATION PROJECT – PHASE II WW0904 APPROVAL OF ENGINEERING SERVICE CONTRACT

EXHIBITS: LOCATION MAP
COVER PAGE OF CONTRACT WITH ENGINEER’S PROPOSAL

CLEARANCES	APPROVAL
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LEGAL:	JOE MORRIS CITY ATTORNEY <i>JCM</i>	EXECUTIVE DIRECTOR:	N/A
PURCHASING:	TODD REED PURCHASING MANAGER <i>TR</i>	ASST. CITY MANAGER:	KAREN DALY <i>KD</i>
BUDGET:	JENNIFER BROWN <i>JB</i> BUDGET & RESEARCH DIRECTOR	CITY MANAGER:	ALLEN BOGARD <i>Allen Bogard</i>

BUDGET

EXPENDITURE REQUIRED: \$	97,950
CURRENT BUDGET: \$	225,000 WW0904
ADDITIONAL FUNDING: \$	N/A

RECOMMENDED ACTION

Authorize the execution of an engineering services contract with HDR Engineers for Evaluation, Final Design and Bid Phase Services of the East & West Interceptor Rehabilitation Project Phase II in a maximum amount of \$97,950.

EXECUTIVE SUMMARY

The two major interceptor trunk mains, the West and East Interceptors of the City's North Wastewater Collection System, were constructed in 1985 and 1974, respectively. Both interceptors receive flow from several lift stations and gravity service areas and are responsible for conveying a large percentage of the North Waste Water Treatment Plant's designed average daily flow of 6.0 MG.

Due to the critical nature of the interceptors, a TV inspection was completed on both mains in early 2007. The inspection identified severe deterioration in the West Interceptor and intermittent deterioration of the East Interceptor. The evaluation recommended complete rehabilitation of the West Interceptor and rehabilitation of the deteriorated segments of the East Interceptor. The project was divided in two phases. Phase I of the Interceptors' rehabilitation, which has recently been completed, included approximately 6,656 L.F. of 36-inch to 48-inch pipe and associated manholes.




Phase II of the Interceptor Rehabilitation Project will include approximately 6,000 L.F. of 36-inch pipe and will complete rehabilitation on the West Interceptor. The Phase II design scope of work will include final design and bid phase services necessary for the project's successful advertisement, bid and award including: plan and profile drawings, technical specifications, construction costs estimates and administrative services. The major tasks and issues associated with the project include: assessing the condition of the existing pipe and manholes to determine the proposed rehabilitation methods; determining the need of repairs to facilitate rehabilitation; evaluating the bypass pumping routes required for the rehabilitation; determining options available for televising three siphon pipes under Oyster Creek and traffic control with TxDOT for work near US 90A.

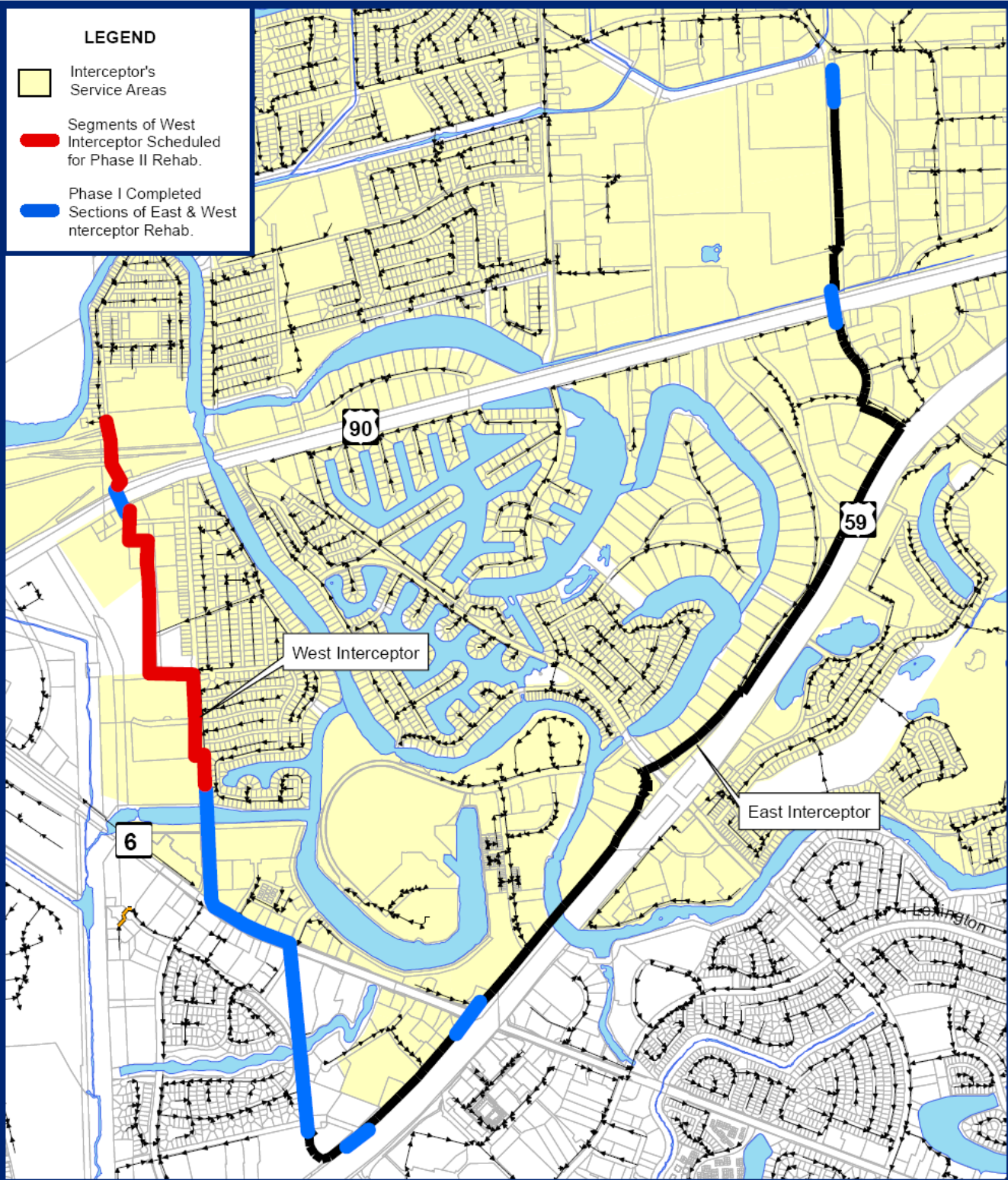
A Formal Request for Qualification (RFQ) process was used to select a consultant for this project and HDR Engineering, Inc. was chosen based on experiences with similar projects, understanding of the project, creativity and thoroughness of the proposed approach. With HDR having been the project's consultant for all phases of the project, a very competitive design services fee was negotiated which is less than five percent of the preliminary engineering probable construction estimate of \$2,005,720. There is currently \$225,000 budgeted in CIP WW0904 for the design of the Phase II of the Interceptors' rehabilitation. The project schedule includes design completion in October/November 2010 and construction completion at the end of FY11.

The Utilities and Engineering Departments recommend the City Council authorize the execution of an engineering services contract with HDR Engineering, Inc. for the final design of the East & West Interceptor Rehabilitation Project Phase II in a maximum amount of \$97,950.

EXHIBITS

LEGEND

-  Interceptor's Service Areas
-  Segments of West Interceptor Scheduled for Phase II Rehab.
-  Phase I Completed Sections of East & West Interceptor Rehab.



CITY OF SUGAR LAND

Capital Improvement Program
North System East & West Interceptor Rehab.
CIP No. WW0904



**CITY OF SUGAR LAND STANDARD CONTRACT
FOR PROFESSIONAL ENGINEERING DESIGN
SERVICES FOR CITY FACILITIES**

Form Revised 3/1/10

I. General Information and Terms.

Engineer's Name and Address: HDR Engineering, Inc.
4635 Southwest Freeway, Suite 1000
Houston, Texas 77027

Project Description: East and West Interceptor Rehabilitation Project Phase II

Maximum Contract Amount: \$97,950

Effective Date: On the latest date of the dates executed by both parties.

Termination Date: (See III F)

Contract Parts: This Contract consists of the following parts:

- I. General Information and Terms
- II. Signatures
- III. Standard Contractual Provisions
- IV. Additional Terms or Conditions
- V. Additional Contract Documents

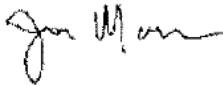
II. Signatures. By signing below, the City and the Engineer agree to the terms of this Contract, which consists of the following parts:

CITY OF SUGAR LAND

City Manager or Assistant City Manager

Date: _____

Reviewed for Legal Compliance:



ENGINEER:

By: 

Date: 4/27/2010

HDR | CLAUNCH & MILLER

Engineering Consultants

March 25, 2010

Mr. Pete Polito
CIP Project Manager
City of Sugar Land
111 Gillingham Lane
Sugar Land, Texas 77478

Re: Proposal for East and West Interceptor Rehabilitation Project – Phase 2
City of Sugar Land

Dear Mr. Polito:

As requested, HDR Engineering Inc. hereinafter HDR|Claunch & Miller (HDR) to is pleased to submit this proposal for performing engineering services for the above referenced phase of Sugar Land's Wastewater Collection System Management Program. The proposal is based on our understanding of the project as discussed in our previous meetings and conversations. For your convenience, this proposal consists of General Overview, Scope of Services, and Fee.

GENERAL OVERVIEW

The East Interceptor sanitary sewer trunk main includes approximately 17,125 L.F. of 18-inch to 48-inch sanitary sewer and the West Interceptor sanitary sewer trunk main includes approximately 11,830 L.F. of 36-inch sanitary sewer that discharge into the City's North Wastewater Treatment Plant.

Approximately 7,300 linear feet of 36-inch and 48-inch sanitary sewer located along the east and west interceptors, manholes and associated appurtenances were rehabilitated as part of Phase 1 project. Phase 1 of this project is nearing completion and the project is in the close-out stage.

This second phase will consist of rehabilitating segments of sanitary sewer trunk main designated as phase 2 in the "East and West Interceptor Sanitary Sewer Trunk Main Evaluation Study" submitted to the City of Sugar Land in July 2007. Based on information provided by City staff, the budget allocated by the City is \$2,200,000 (which includes construction costs and engineering phase services costs).

This proposal includes the preparation of engineering plans and specifications for the rehabilitation of approximately 5,980 L.F. of 36-inch trunk main and includes rehabilitation of manholes on both the East and West Interceptor. Based on preliminary cost estimates, the estimated construction cost for performing the improvements is \$2,005,720.

As requested by City staff, this proposal does not address any construction phase services. HDR will submit a separate proposal for providing the construction phase services at a later date. Based on conversations with City staff, a Phase I Environmental Site Assessment will not be performed for this Project. The scope of work includes:

SCOPE OF SERVICES

A. Basic Services

1. Design Phase Services

- Research and gather existing relevant data on the project such as existing utility information, information from petrochemical pipeline companies, and drawings on existing main, as available.
- Contact private utility companies, and other entities that may be involved to obtain information on their existing facilities and requirements that may impact this project.
- Obtain available record drawings on sanitary sewer lines designated for rehabilitation from the City.
- Coordinate with other governmental entities, which may be impacted by the project.
- Perform field reconnaissance of the sanitary sewer main location areas to obtain information on surface features and any other information that would impact construction cost and methodology of rehabilitation. The information gathered from the field visit will be included in the schematic layout drawings that would aid the design efforts.
- Review and evaluate available television inspection videotapes of the sanitary sewer lines designated for rehabilitation.
- Obtain and examine available maintenance data on sanitary sewer lines designated for rehabilitation.
- Assess the condition of the sanitary sewer lines and confirm a method of rehabilitation. The methodology of rehabilitation will be based on an examination of the data collected from the site reconnaissance survey, examination of project area, and review of available television inspection and maintenance data from City.
- Open, measure, and evaluate manholes along the sanitary sewer lines designated. These evaluations will be for general deterioration and condition purposes. Obtain available manhole inspection data from the City.

- Recommend suitable rehabilitation methods for manholes along the sanitary sewer lines designated for rehabilitation.
- Prepare project specifications, drawings, bid documents and construction drawings based on anticipated improvements.
- The design shall include the sanitary sewer lines identified by the City that can be rehabilitated with the available construction budget of \$2,005,720. HDR will inform the City of the cost estimate as the project progresses.
- Prepare add alternate bids for the project based on the available budget.
- Complete coordination with other governmental entities or utility agencies in regard to the project. Obtain approvals required by governmental authorities with jurisdiction over the design and/or operation of the project and public and private utilities, including pipeline companies affected by this project. The City of Sugar Land will pay the fee for permits required for this project.
- Coordinate with Texas Department of Transportation (TxDOT) for work performed within TxDOT right of way.
- Submit documentation for obtaining permits for performing the work.
- Coordinate and meet with construction contractors performing similar work and obtain information on construction costs, constructability issues and any other items that would aid with the design.
- Coordinate with the City of Sugar Land during the design phase.
- Provide a set of draft plans and specifications for City of Sugar Land's review and comments.
- Incorporate the City's comments into the Final Design Plans and Specifications.
- Incorporate appropriate comments from all pertinent entities into the final bid documents.
- Prepare final cost estimate for the project.
- Furnish five (5) sets of construction documents to the City.

2. Bid Phase Services

- Assist the City in obtaining bids for the project.

- Dispense construction documents from HDR's office to potential bidders.
- During the bidding process, provide information to and answer questions from potential bidders concerning the Projects construction documents and prepare addenda as necessary.
- Conduct a pre-bid conference for potential bidders.
- Evaluate the bids and the qualifications of the apparent low bidders and advise the City as to the acceptability of the apparent low bidder.

B. Special Services

Special services are those services that are beyond the basic services provided for in the scope portion of this proposal.

Due to the nature of this project there are certain Special Services that are anticipated and other special services that may or may not be required. In the fee portion of this proposal the special services that are anticipated are listed. Anticipated special services and potential special services include:

Reproduction

- Costs for reproduction will be charged under special services for reproduction of plans and specifications, including the five (5) sets of construction documents provided (as listed in the design services) to the City.
- Reproduction for review sets, submittals to the City, governmental agencies, and utility companies will be included in the cost for reproduction.

FEE

The fee for the project is shown below.

Design Services: the Lump Sum amount of:	\$87,100.00
Bid Phase Services: the Lump Sum amount of:	\$9,600.00
<i>Special Services:</i>	
Reproduction: Cost plus 10%	<u>\$1,250.00</u>
Total Design and Bid Phase:	\$97,950.00

All hourly charges shall be charged based on a raw labor rate times a multiplier of 3.05, reimbursable expenses will be charged at cost plus 10%. Mileage will be charged at prevailing IRS rates.

Additional services will be invoiced on the basis of direct labor cost times a factor of 3.05 and direct cost plus 10%. No additional services will be performed or invoiced without prior authorization from the City of Sugar Land.

PROJECT SCHEDULE

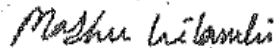
It is anticipated that the total time from authorization to completion of the project will be approximately five (5) months.

HDR will submit monthly progress invoices for all engineering work completed to invoice date.

HDR appreciates the opportunity to submit this proposal and we look forward to continuing our work with the City of Sugar Land.

Sincerely,

HDR ENGINEERING, INC.



Madhu Kilambi, P.E.
Vice President