

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING CHANGE ORDER NO. 1 FOR HAZEN AND SAWYER, P.C. FOR PROFESSIONAL SERVICES RELATIVE TO CONTRACT NO. W-11-012-101, DESIGN AND CONSTRUCTION OF BAR SCREEN AND FINE SCREEN REPLACEMENTS FOR MOCCASIN BEND WASTEWATER TREATMENT PLANT, FOR AN INCREASED AMOUNT OF EIGHTY-ONE THOUSAND FIVE HUNDRED DOLLARS (\$81,500.00), FOR A REVISED CONTRACT AMOUNT NOT TO EXCEED SEVEN HUNDRED TWENTY-THREE THOUSAND FIVE HUNDRED DOLLARS (\$723,500.00).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, it is hereby authorizing Change Order No. 1 for Hazen and Sawyer, P.C. for professional services relative to Contract No. W-11-012-101, Design and Construction of Bar Screen and Fine Screen Replacements for Moccasin Bend Wastewater Treatment Plant, for an increased amount of \$81,500.00, for a revised contract amount not to exceed \$723,500.00.

ADOPTED: _____, 2013.

/mms

City of Chattanooga



Resolution/Ordinance Request Form

Date Prepared: 12/28/12

Preparer: Dennis Malone

Department: Public Works

Brief Description of Purpose for Resolution/Ordinance:

Res./Ord. # _____ Council District # _____

1

A City Council resolution is requested to approve the Change Order No. 1, for Hazen and Sawyer P.C., for professional services relative to Contract No. W-11-012-101, Design and Construction of Bar Screen and Fine Screen Replacements for Mocassin Bend WWTP, for an increased amount of \$81,500.00, for a revised contract amount not to exceed \$723,500.00.

Name of Vendor/Contractor/Grant, etc.	<u>Hazen & Sawyer P.C.</u>	New Contract/Project? (Yes or No)	<u>No</u>
Total project cost	\$ <u>723,500.00</u>	Funds Budgeted? (YES or NO)	<u>Yes</u>
Total City of Chattanooga Portion	\$ <u>723,500.00</u>	Provide Fund	<u>6011</u>
City Amount Funded	\$ <u>723,500.00</u>	Provide Cost Center	<u>K43110</u>
New City Funding Required	\$ \$ <u>81,500.00</u>	Proposed Funding Source if not budgeted	_____
City's Match Percentage	% _____	Grant Period (if applicable)	_____
List all other funding sources and amount for each contributor.			
<u>Amount(s)</u>	_____	<u>Grantor(s)</u>	_____
\$	_____		_____
	_____		_____
	_____		_____
Agency Grant Number	_____		
CFDA Number if known	_____		
Other comments: (Include contingency amount, contractor, and other information useful in preparing resolution)			

Approved by: _____			
Reviewed by: FINANCE OFFICE			DESIGNATED OFFICIAL/ADMINISTRATOR
Please submit completed form to @budget, City Attorney and City Finance Officer			
Revised: 1/26/09			



CITY OF CHATTANOOGA
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

Development Resource Center
1250 Market Street, Suite 2100
Chattanooga, TN 37402
Phone: (423) 757-5117
Fax: (423) 757-0586

CHANGE ORDER

Contract No.: W-11-012-101
Contractor: Hazen and Sawyer
Project Name: Design & Construction of Bar Screen and Fine Screen
Replacements for Moccasin Bend WWTP

Change Order No.: 1
Date: 12/20/2012
Council Res. #'s: 26931
(Attach Copies)

Check Reason for Change Order
 Error/Omission
 Field Condition
 Field Dispute Settlement
 Owner Request
 Value Engineering
 Other: Changes related to Consent Decree requirements

Contract Days Changed: N/A
Revised Completion Date: N/A

Original Contract Amount \$ 642,000.00
Net Change by Previous C.O.s \$ _____
Contract Amount Prior to this C.O. \$ 642,000.00
Total Amount of this C.O. \$ 81,500.00
NEW CONTRACT AMOUNT \$ 723,500.00

Description / Justification (Add more pages if necessary)
See Attachment A

The terms and conditions of this Change Order, including the cost and time contained herein, constitute a full accord and complete satisfaction for all costs and time of performance related to the work described or referenced herein, including but not limited to, all delay and impact costs for the entire Project resulting from this Change Order. Except as amended herein, all provisions of the Contract remain in full force and effect.

APPROVALS

CONTRACTOR		ENGINEER / ARCHITECT	
* SIGNATURES ARE FORTHCOMING		* SIGNATURES ARE FORTHCOMING	
Signature	Date	Signature	Date
CITY PROJECT MANAGER		CITY ENGINEER	
Signature	Date	Signature	Date
ADMINISTRATOR OF PUBLIC WORKS		CITY FINANCE OFFICER	
Signature	Date	Signature	Date

Attachment A
Change Order
Description / Justification

The original Scope of Work included the evaluation, analysis, and design of upgrade and replacement of the existing two (2) coarse bar screens at the Influent Pump Station and the existing six (6) fine screens and two (2) vacant comminutor slots in the plant head works

The City staff requested additional services to evaluate additional alternatives not included in the original Scope of Work to address potential issues related to the Consent Decree to reduce overflows at the East Bank and West Bank CSO discharge sites. These additional services included: a) the development and evaluation of alternatives that would include the design of one (1) new large fine screen at the Influent Relief Pump Station and two (2) new large fine screens at the Influent Pump Station; b) the design of an elevated West Bank CSO discharge site; c) additional surveying services at, around, and in the Influent Relief Pump Station and West Bank CSO sites as well as an internal survey of the wet well at the Influent Pump Station; d) hydraulic modeling of the alternative routings of flows through the Influent Pump Station and Influent Relief Pump Station; e) additional permitting that may be required associated with the modification of the West Bank CSO site; and f) the development and modification of Standard Operating Procedures and training for the selected alternative.

The additional work will result in a design that mitigate the volume and number of overflows at the East Bank and West Bank CSO sites through: a) the design of additions improve the operation of the Influent Relief Pump Station due to proposed elevated West Bank CSO discharge site; b) the replacement of one (1) coarse screen and two (2) horizontal fine screens with one (1) large fine screen; c) the elimination of the dry weather flow channel through the station; and d) the design of two (2) new large fine screens at the Influent Pump Station eliminating the two (2) existing coarse bars screens and the need for the six (6) existing and two (2) proposed fine screens at the head works.

The results of the design of this alternative will be: a) the effective screening of all influent wastewater to the WWTP removing the rags and debris from the waste stream to minimize clogging and back-ups in downstream unit processes causing operations and maintenance issues; b) improving hydraulic through-put of the Influent Pump Station and Influent Relief Pump Station reducing the volume and number of overflows from the East Bank and West Bank CSO discharge sites; and c) reducing operation and maintenance costs because of the reducing number of screens.

Extra Services for Screening Project

Description		Original Fee	Proposed Increase	Proposed Fee
Task 001	Preliminary Engineering Reprot	\$ 60,000	\$ 35,000	\$ 95,000
Task 002	Final Design	\$ 212,000	\$ 43,000	\$ 255,000
Task 003	Bidding	\$ 14,000	\$ -	\$ 14,000
Task 004	Construction Administration	\$ 74,000	\$ -	\$ 74,000
Task 005	Permitting & Funding Agency Asstance	\$ 12,000	\$ -	\$ 12,000
Task 006	SRF Environmental & Coord.	\$ 8,000	\$ -	\$ 8,000
Task 007	Survey	\$ 42,000	\$ 21,500	\$ 63,500
Task 008	Concrete Testing	\$ 6,000	\$ -	\$ 6,000
Task 009	Resident Project Representation	\$ 214,000	\$ (33,000)	\$ 181,000
Task 010	Permitting for West Bank Overflow		\$ 5,000	\$ 5,000
Task 011	Operational Procedures and Training		\$ 10,000	\$ 10,000
Total		\$ 642,000	\$ 81,500	\$ 723,500

Schedule

- 50% Design 75 days after approval of the PER
- 90% Design 75 days after approval of the 50% design
- 100% Design 30 days after approval of the 90% design

Task 10 Permitting for West Bank Overflow

A new task will be added for the required permitting for raising the West Bank Overflow.

The new task ceiling will be \$5,000

Task 11 Operational Procedures and Training

A new task will be added to modify and amend the existing Standard Operating Procedure (SOP) for the Influent Pump Station.

The new task ceiling will be \$10,000

**Amendment
to
Contract No. W-11-012-101**

Task 1 Preliminary Engineering Report

The scope for task 1 will be amended to include evaluation of impacts on the collection system from the East Bank overflow to the Influent Pump Station. The evaluation includes utilization of a hydraulic model and will include model runs to simulate the new screens.

This task will be increased by \$35,000 for the additional modeling effort.

The new task ceiling will be \$95,000.

Task 2 Final Design

The scope for task 2 will be amended to delete replacement of all influent screens at the Moccasin Bend WWTP in kind. The scope shall be amended to include replacing the existing two (2) coarse screens at the Influent Pump Station with two (2) fine screens. Replacing the single existing coarse screen at the Influent Relief Pump Station with a single fine screen shall be added to the scope of work. Raising the West Bank overflow shall also be added to the scope of work.

This task will be increased by \$43,000 for the additional design effort.

The new task lump sum will be \$255,000.

Task 7 Survey

The scope for task 7 shall be amended to include additional survey inside the wet well at the Influent Pump Station, at the Influent Relief Pump Station, and around the West Bank Overflow. The additional survey effort is needed to allow for the additional design work required under amended Task 2.

This task will be increased by \$21,500 for the additional survey effort.

The new task ceiling will be \$63,500.

Task 9 Resident Project Representation (RPR)

The scope for this task will remain unchanged; however, the ceiling for this task will be reduced from \$214,000 to \$181,000.

The new task ceiling will be \$181,000.

RESOLUTION NO. 26931

A RESOLUTION AUTHORIZING THE ADMINISTRATOR OF THE DEPARTMENT OF PUBLIC WORKS TO ENTER INTO AN AGREEMENT WITH HAZEN AND SAWYER, P.C., FOR PROFESSIONAL SERVICES, RELATIVE TO CONTRACT NO. W-11-012-101, DESIGN AND CONSTRUCTION PHASE SERVICES OF BAR SCREEN AND FINE SCREEN REPLACEMENTS FOR MOCCASIN BEND WASTEWATER TREATMENT PLANT, IN AN AMOUNT NOT TO EXCEED SIX HUNDRED FORTY-TWO THOUSAND DOLLARS (\$642,000.00).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, that the Administrator of the Department of Public Works is hereby authorized to enter into an agreement with Hazen and Sawyer, P.C., for professional services, relative to Contract No. W-11-012-101, Design and Construction Phase Services of Bar Screen and Fine Screen Replacements for Moccasin Bend Wastewater Treatment Plant, in an amount not to exceed \$642,000.00.

ADOPTED: December 20, 2011.

/mms