



CITY COUNCIL ACTION REPORT

March 1, 2013

TO: Brian Kischnick, City Manager

FROM: Mark Miller, Director of Economic & Community Development
Steven J. Vandette, City Engineer

SUBJECT: Approval of Second Amendment to Architectural/Engineering Services Contract for Design of the Safety Crash Wall at the Troy Multi-Modal Transit Facility

History:

On January 17, 2012 City Council approved (Resolution No. 2012-01-008) a contract for Architectural/Engineering (A/E) services in the amount of \$648,648.76 for the Troy Multi-Modal Transit Facility.

On November 12, 2012 City Council approved Contract Amendment No. 1 in the amount \$64,822.20 for Construction Testing Services in support of the Troy Multi-Modal Transit Facility. The total amount of the contract became \$713,470.96. Including construction, architectural/engineering services, utility relocations and all other costs the total Transit Center cost as approved was \$6,272,500.

Hubbell, Roth and Clark, Inc.(HRC) has submitted design costs of \$60,613 for design, testing and construction staking for the safety crash wall as required by CN along the west elevator/bridge support tower. The costs have been reviewed by the City Engineer and MDOT and are recommended for acceptance.

Financial Considerations:

A summary of actions taken to date is provided below:

Original Contract	\$8,485,212	Original Grant Amount
Amendment #1	\$6,272,500	Council Compromise – Reduction approved by City Council
Amendment #2 Tooles/Clark	\$287,623	Crash Wall Construction
Amendment #2 HRC	\$60,613	Crash Wall Design, Testing and Staking
Recommended Revised Contract	\$6,620,736	

The total project cost continues to be fully funded, 100% with federal ARRA funds. No city funding is needed for the Transit Center.

Recommendation:

Staff recommends approval of MDOT Contract Amendment No.2 in the amount of \$60,613 as submitted by HRC for design, testing and construction staking for the safety crash. The total contract amount with HRC will be \$774,083.96. The total funding for the Transit Center, including construction, architectural/engineering services and utility relocations is \$6,620,736.

CITY OF TROY MULTI-MODAL TRANSIT FACILITY
DERIVATION OF COST PROPOSAL - CONSTRUCTION ENGINEERING SERVICES

SUMMARY OF TOTAL PROJECT CHARGES

Consultant Name: Hubbell, Roth & Clark, Inc.

DIRECT LABOR

				Original Contract	Contract Amendment #1	Contract Amendment #2
Hubbell, Roth & Clark, Inc.	Direct Labor Hours	3292	Direct Labor Costs	\$ 128,539.10	\$ 13,235.15	\$ 21,692.55
Neumann/Smith Architecture		1474		\$ 57,181.20	\$ -	\$ 2,312.80
Grissim Metz Andriese Associates		256		\$ 11,044.00	\$ -	\$ -
Quandel Consultants, LLC		153		\$ 9,833.00	\$ -	\$ -
Schleede-Hampton Associates, Inc.		50		\$ 1,839.00	\$ -	\$ 331.00
EAM Engineers, Inc.		115		\$ 4,828.10	\$ -	\$ -
H H Engineering, Ltd.		49		\$ 1,858.30	\$ -	\$ -
Somat Engineering, Inc.		105		\$ 3,263.74	\$ -	\$ (780.32)
Soils and Materials Engineers, Inc.				\$ -	\$ 5,963.06	\$ -

OVERHEAD

Hubbell, Roth & Clark, Inc.	Total Overhead Costs	\$ 207,205.03	\$ 21,335.06	\$ 34,968.39
Neumann/Smith Architecture		\$ 97,208.04	\$ -	\$ 3,931.76
Grissim Metz Andriese Associates		\$ 13,031.92	\$ -	\$ -
Quandel Consultants, LLC		\$ 11,307.95	\$ -	\$ -
Schleede-Hampton Associates, Inc.		\$ 2,758.50	\$ -	\$ 496.50
EAM Engineers, Inc.		\$ 7,242.15	\$ -	\$ -
H H Engineering, Ltd.		\$ 2,313.96	\$ -	\$ -
Somat Engineering, Inc.		\$ 6,201.11	\$ -	\$ (1,482.61)
Soils and Materials Engineers, Inc.		\$ -	\$ 12,797.92	\$ -

DIRECT EXPENSES

Hubbell, Roth & Clark, Inc.	Total Direct costs	\$ 6,000.00	\$ -	\$ -
Neumann/Smith Architecture		\$ 3,000.00	\$ -	\$ 200.00
Grissim Metz Andriese Associates		\$ -	\$ -	\$ -
Quandel Consultants, LLC		\$ 1,800.00	\$ -	\$ -
Schleede-Hampton Associates, Inc.		\$ 3,000.00	\$ -	\$ (3,000.00)
EAM Engineers, Inc.		\$ -	\$ -	\$ -
H H Engineering, Ltd.		\$ 392.33	\$ -	\$ -
Somat Engineering, Inc.		\$ 5,000.00	\$ -	\$ (5,000.00)
Soils and Materials Engineers, Inc.		\$ -	\$ 5,448.39	\$ -

COST OF MONEY

Hubbell, Roth & Clark, Inc.	Cost of Money	\$ 964.04	\$ 99.26	\$ 162.69
Neumann/Smith Architecture		\$ 628.99	\$ -	\$ 25.44
Grissim Metz Andriese Associates		\$ 121.48	\$ -	\$ -
Quandel Consultants, LLC		\$ 19.87	\$ -	\$ -
Schleede-Hampton Associates, Inc.		\$ 9.20	\$ -	\$ 1.66
EAM Engineers, Inc.		\$ -	\$ -	\$ -
H H Engineering, Ltd.		\$ -	\$ -	\$ -
Somat Engineering, Inc.		\$ 35.90	\$ -	\$ (8.58)
Soils and Materials Engineers, Inc.		\$ -	\$ 76.92	\$ -

FIXED FEE

Hubbell, Roth & Clark, Inc.	Total Fixed Fees	\$ 36,931.85	\$ 3,802.72	\$ 6,232.70
Neumann/Smith Architecture		\$ 16,982.82	\$ -	\$ 686.90
Grissim Metz Andriese Associates		\$ 2,648.35	\$ -	\$ -
Quandel Consultants, LLC		\$ 2,325.50	\$ -	\$ -
Schleede-Hampton Associates, Inc.		\$ 505.73	\$ -	\$ 91.03
EAM Engineers, Inc.		\$ 1,327.73	\$ -	\$ -
H H Engineering, Ltd.		\$ 458.95	\$ -	\$ -
Somat Engineering, Inc.		\$ 1,041.13	\$ -	\$ (248.92)
Soils and Materials Engineers, Inc.		\$ -	\$ 2,063.71	\$ -

Total Project Charges	\$ 648,648.76	\$ 64,822.20	\$ 60,613.00
------------------------------	----------------------	---------------------	---------------------



HUBBELL, ROTH & CLARK, INC

Consulting Engineers

Principals

George E. Hubbell
Thomas E. Blehl
Walter H. Afix
Peter T. Roth
Michael D. Waring
Keith D. McCormack
Nancy M.D. Faught
Daniel W. Mitchell

Senior Associates

Gary J. Tressel
Kenneth A. Melchior
Randal L. Ford
Timothy H. Sullivan

Associates

Jonathan E. Booth
Michael C. MacDonald
Marvin A. Olane
William R. Davis
Jesse B. VanDeCreek
Robert F. DeFrain
Marshall J. Grazioli
Thomas D. LaCross
Dennis J. Bencit
James F. Burton
Jane M. Graham
Donna M. Martin
Charles E. Hart

February 27, 2013

City of Troy
500 West Big Beaver
Troy, Michigan 48084

Attention: Mr. Steven Vandette, P.E., City Engineer

Re: Troy Multi-Modal Transit Facility
Contract Amendment Proposal for Crash Wall

HRC Job No. 20110519

Dear Mr. Vandette:

Hubbell, Roth & Clark, Inc. is providing a contract amendment request for the Troy Multi-Modal Transit Facility. This contract amendment request is a result of an unanticipated requirement by CN to require a crash wall at the facility.

The scope of work for the additional design and construction related services associated with the crash wall design consists of the following items:

- Determination of Crash Wall Requirements with CN
- Crash Wall Conceptual and Preliminary Design for CN Acceptance
- Crash Wall Final Design for CN Approval
- Additional Material Testing for Foundation to accommodate Crash Wall
- Additional Staking of Crash Wall
- Additional Shop Drawing Review of Crash Wall construction submittals
- Additional Material Testing during Crash Wall Construction
- Preparation of Crash Wall Construction Bulletin
- Architectural Plan Revisions for west side stair/elevator tower

Based on the scope of work details identified above, the attached Staff Hour Projections and Estimated Design Fee spreadsheets have been prepared. The work has been broken into various tasks to be completed by HRC and our subconsultant Neumann Smith Architecture. In accordance with our estimate of HRC and our subconsultant staff hours to complete these tasks, the total estimated cost for undertaking the crash wall design and construction services work as described above is \$60,613 00, which includes \$53,456.10 for work performed by HRC and \$7,156.90 for work performed by our subconsultant. The fee was determined in accordance with our current Engineering Services Contract for the project.

Y:\201105\20110519\Proposa\Prop\Text\20110227_Crash Wall Contract Amendment.docx

555 Hulet Drive, PO Box 824
Bloomfield Hills, Michigan 48303-0824
Telephone 248 454 6300 Fax 248 454 6312
www.hrc-engr.com

Engineering. Environment. Excellence.



If this proposal is deemed acceptable to the City, please sign and return one copy to this office and retain one for your files. Thank you for the opportunity to serve the City on this project.

If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

A handwritten signature in black ink, appearing to read 'Walter H. Alix', written over a horizontal line.

Walter H. Alix, P.E., P.S.
Vice President/Principal

MM/mm
pc: HRC; M. MacDonald, File

Accepted:

CITY OF TROY

Signature: _____

Printed Name: _____

Title: _____

Dated: _____