

MEMO

To: Honorable Mayor and City Council
From: Maria D'Andrea, Director of Public Works
Subject: Recommendation to Approve a Construction Contract with Flatiron Constructors, Inc. for the Tower Road Widening Project, Project No. PW-03-2014
Date: April 18, 2016

Item:	Tower Road Widening Project
Contractor:	Flatiron Constructors, Inc.
Contract Amount:	\$28,183,660.98

Project Description

This project will widen Tower Road, between 103rd Avenue and 80th Avenue, from two lanes to four lanes with acceleration and deceleration lanes as needed at the intersections and left turn lanes as needed. Curb and gutter will be installed on the outer edge of the lanes as well as on the median. Multi-modal facilities will be provided through on-street bike lanes, a detached six-foot wide concrete sidewalk and a 10-foot wide bike path. A raised, irrigated and landscaped median will be constructed at various locations.

The existing overhead electrical transmission line, on the west side of the road, will be relocated and buried underground. All other existing utilities will be relocated, as needed. New traffic signals will be installed at 96th Avenue, 88th Avenue and 81st Avenue. The signals will have Opticomms installed, for use by the South Adams County Fire District, and will have the flashing yellow-arrow (FYA) capability for permissive left turns. The FYA will be implemented in the Tower Road corridor (between 104th Avenue and 80th avenue) with this project. New light-emitting diode (LED) street lights, with banner poles, will be installed along the length of the project. New drainage crossings for Second Creek and Gramma Gulch drainage ways will also be constructed.

A new sanitary sewer line will be constructed between 96th Avenue and 104th Avenue as well as an additional water main from approximately 81th Avenue to 88th Avenue. Staff has worked closely with adjacent property owners and the South Adams County Water and Sewer District (SACWSD) to identify opportunities to provide infrastructure now in order to facilitate development in the future. For example, numerous crossings for sanitary



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sewer & storm sewer as well as water tees are being installed with the project. This will also limit future cuts in the pavement.

Two landscaped areas, with trees and benches, will be constructed adjacent to the sidewalk at 96th Avenue and another at the Second Creek underpass crossing. Working with the City's Healthy Eating & Active Living (HEAL) group, one of these areas, near the Second Creek underpass, will be outfitted with fruit trees and an area for public art. Staff will work with LiveWell Commerce City to identify a school group or other group to harvest the fruit each season. Additional opportunities for public art are being evaluated through the City's public art consultant and will be installed prior to the completion of the project.

The project bid included items to construct the all of the items previously mentioned as well as the northern portion of the regional drainage improvements, referred to as the modified T-88 plan. The prices shown below include all bid items discussed above.

Project Goals

This project is intended to fulfill the following goals:

- Increased vehicle capacity
- Improved safety
- Improved level of service
- Environmentally & contextually sensitive
- Multi-modal facilities for vehicles, bicyclists and pedestrians
- Water quality and storm water conveyance improvements

Bidding & Selection Process

- Plans and specifications for this work were prepared by Huitt-Zollars, Inc.
- A mandatory pre-bid meeting was held on March 8, 2016
- Bids were solicited through a formal bidding process which was advertised on the City website and Rocky Mountain E-Purchasing beginning on February 29, 2016
- Bids were opened and read publicly at 2:00 p.m. on April 7, 2016
- Five (5) addenda were issued which responded to questions from potential bidders and provided updated plan sheets, documentation, etc.
- As a part of the pavement design process, a life cycle cost analysis was prepared by the geotechnical engineering firm for the project, GeoCal, which identified that the two pavement types, asphalt and concrete, were within a 10% cost difference of each other. Therefore, both pavement types were bid as alternates.



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- The baseline construction budget for the project is \$33,771,478.
- The City received six (6) bids with three of the six submitting proposals on both Alternate A (asphalt pavement) and Alternate B (concrete pavement) shown below.

	Grand Total Bid Price – Alt A (Asphalt)	Grand Total Bid Price – Alt B (Concrete)
Flatiron Constructors, Inc.	\$27,683,660.98	\$29,435,041.24
AECOM	\$31,161,254.65	\$31,472,310.40
Ames Construction, Inc.	\$31,991,654.50	\$33,261,286.50
HEI Civil	\$32,553,366.00	-
Castle Rock Construction Company	-	\$29,227,272.46
Interstate Highway Construction, Inc.	-	\$32,197,518.07
Baseline Construction Budget	\$33,771,478.00	\$33,771,478.00
Baseline Budget less Low Bid	\$6,087,817.02	\$4,336,436.76

- There were no local Commerce City contractors that submitted a bid.

Schedule:

A Notice to Proceed is anticipated to be issued on or about April 29, 2016. The contractor will mobilize into a staging area located adjacent to the roadway, on land owned by Republic Services and paid for as an easement by the City. They will likely begin work in mid-May. All work is scheduled to be completed within 540 days or approximately December 2017.

Financial Impact:

The total adjusted construction budget is as follows. This includes a force account of \$500,000 for additional work/unanticipated items to be completed by the contractor and a 5% contingency amount to cover change orders, as authorized by the Director of Public Works or City Manager.



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Contract Amount	\$27,683,660.98
Force Account	\$500,000.00
Contract Award Amount	\$28,183,660.98
Contingency Amount (approximately 5% of the bid)	\$1,400,000.00
Total Construction Budget	\$29,583,660.98

Funding for the majority of the project will come from 2K Funds. Approximately \$1.35M come from the Solid Waste Fund for the water and sanitary sewer improvements.

Staff Recommendation:

Staff recommends acceptance of the bids and awarding a contract to Flatiron Constructors, Inc. in the amount of **\$28,183,660.98** for this work.

