

A G E N D A R E P O R T

DATE October 15, 2002

ITEM: AMENDMENT NO. 1 TO ENGINEERING SERVICES AGREEMENT FOR 14TH/15TH STREET STORM DRAIN/WATER MAIN REPLACEMENT - O.F. 1215

INITIATED BY: PUBLIC WORKS DEPARTMENT/ENGINEERING BRANCH

ACTION REQUESTED: APPROVE AMENDMENT NO. 1 TO ENGINEERING SERVICES AGREEMENT

PRESENTED BY: JIM REARDEN, PUBLIC WORKS DIRECTOR

RECOMMENDATION: Approve Amendment No. 1 to the Engineering Services Agreement between the City of Great Falls and Thomas, Dean & Hoskins, Inc. for the 14th/15th Street Storm Drain/Water Main Replacement - O.F. 1215.

MOTION: "I move the City Commission approve Amendment No. 1 to the Engineering Services Agreement between the City of Great Falls and Thomas, Dean & Hoskins, Inc. for the 14th/15th Street Storm Drain/Water Main Replacement - O.F. 1215."

SYNOPSIS: An increase in the scope of engineering services and associated contract fees necessitates a contract amendment to complete design services for the referenced project. The primary factors contributing to this increase include the analysis of several alternative utility alignments and pipe materials, a large amount of underground utility conflicts, an increase in the scope of the originally anticipated utility replacement/relocation, and the addition of a project phase requiring another set of bidding documents.

Amendment No. 1 increases the engineering services work scope and contract amount (see attached Amendment). The estimated fee to complete the additional design scope is \$77,100. This brings the total amended contract amount to date to \$448,472 (\$329,355 original design services, \$42,017 for original optional construction phase services, and \$77,100 for design services in Amendment No. 1). Amendment No. 1 also includes a provision to provide optional construction phase services in the amount of \$42,500. The optional construction phase services would be used for the last phase of storm drain improvements only if City staff is not available.

The amended total design cost (\$406,455) is 4.4 percent of the 9.2 million dollar estimated construction cost of the improvements. This is in line with the expected design cost percentages of projects with similar design and work scope.

Utility funds are currently available to cover the estimated \$77,100 contract increase.

BACKGROUND: In 1993, the Montana Department of Transportation (MDT) nominated an urban

highway project to reconstruct approximately 3.4 miles of 14th and 15th Streets between 10th Avenue South and River Drive. The MDT project is currently scheduled for bid letting in the spring of 2003 with construction anticipated for 2003 through 2004. As part of the MDT project, the City will construct a large storm drain along 14th and 15th Streets between River Drive and the intersection of Central Avenue and 15th Street, and upgrade water and sewer main utilities. This project is similar, but much larger in work scope, than the utility improvements done under the recent 10th Avenue South - 20th Street to Warden Bridge reconstruction project.

Four separate projects have been programmed for construction of the City's utilities improvements. The improvements have been programmed in four phases because, 1) some of the improvements are located outside the highway project limits, 2) storm drainage facilities need to be extended outside the highway project to eliminate bottlenecks at each end of the new storm drain to be installed under the MDT project phase, 3) to expedite and otherwise facilitate utility replacement during the MDT project phase, and 4) to spread out the City's utility capital outlay.

Two of the projects have been designed, bid and are currently under construction. One of those projects includes the replacement of nine blocks of water main and relocation of a major interceptor sanitary sewer in the vicinity of the MDT project, while the other involves the construction of a new storm drain outfall structure near the 15th Street Bridge. The MDT project will be the next project bid. The City's portion of that project includes the large diameter storm drain on 14th and 15th Streets North, and upgrading of the water main along the entire length of 15th Street plus one block of 14th Street, and the relocation of a large sanitary sewer at 12th Avenue North. The fourth and final project will involve extending the City's storm drain from 15th Street and Central Avenue (the terminus point on the MDT project) easterly to connect into the Valerian Way and 18th Street storm drains. That project is currently scheduled for construction in 2004.

An Engineering Services Agreement in the amount of \$329,355 and \$42,017 for design and optional construction phase services, respectively, was approved by the City Commission on June 20, 2000. Thomas Dean & Hoskins has completed design services on the first two projects and is currently providing construction phase services on the second project (Storm Drain Outfall Structures). Amendment No. 1 will allow design services to be completed on the last two project phases (Phases II and III in Amendment No. 1).

City engineering staff is currently managing both of the projects under construction, and is also providing construction inspection for the water and sewer main replacement project.

Attachments: Amendment No. 1 to the Engineering Services Agreement

**AMENDMENT NO. 1
TO
CONTRACT FOR ENGINEERING SERVICES
BETWEEN
THE CITY OF GREAT FALLS, MONTANA
AND THOMAS, DEAN & HOSKINS, INC.**

NOVEMBER 2002

THE ORIGINAL AGREEMENT, dated the 5th day of June 2001, between the CITY OF GREAT FALLS and THOMAS, DEAN & HOSKINS, INC., for the preliminary design, design and construction for the Great Falls 14th/15th Street Couplet Storm Drain/Water Main Replacement, O.F. 1215, is hereby amended as follows:

2. DESCRIPTION OF DESIGN

2.3 DESIGN PHASE

The following additional design services will be provided:

**PHASE II – Montana Department of Transportation Project
Storm Drains & Water Mains**

1. Design storm drain inlets on 14th Street from River Drive to Central and on Central to 15th Street.
2. Design water, sanitary sewer and street improvements on 7th Avenue North from 12th Street to 14th Street. Provide topographic survey for this section.
3. Design sanitary sewer relocations on 14th Street from 3rd Alley North to 4th Alley North and from 6th Alley North to 9th Alley North.
4. Design sanitary sewer relocations on 14th Street from 11th Avenue North to 12th Avenue North.
5. Design sanitary sewer relocation on 12th Avenue North and across Pepsi property. Provide topographic survey for this section.
6. Design water main replacement on 4th Avenue North from 14th Street to 15th Street.
7. Design water main and street replacement on 1st Avenue North from 15th Street to 19th Street.
8. Design water main on 1st Avenue South from 13th to 14th Street. Provide topographic survey for this section.
9. Evaluate potential for utilization of dual 60 inch PVC storm drains in place of proposed RCP storm drain.
10. Provide traffic analysis/study for 12th Avenue North approach.
11. Design cast in place box section as option to precast concrete storm drain.

12. Collect supplementary survey data for verification of sanitary sewer invert levels at storm drain crossings.
13. Evaluate potential cost savings for routing storm drain on 14th Street to Central and east on Central to 18th Street.

PHASE III – Storm Drain – 15th to 18th/19th on 1st Avenue North & Central on 18th Street

- 14a. Provide additional bore logs on Central Avenue along revised storm drain route.
- 14b. Design storm drain on Central from 15th to 18th Street.
- 14c. Design inlets at 17th Street and Central and new storm drain from Central to 1st Avenue North on 17th Street or from Central to near 1st Avenue South. This includes additional bore logs on Central Avenue.
- 14d. Provide complete bidding documents and bidding assistance services including reproduction of contract documents; distribution to interested bidders; addenda; attend pre-bid conference and bid opening; and make bid award recommendation.
15. Provide construction administration and inspection services (optional).

SECTION B COMPENSATION

1. Basic Engineering, Services Compensation

- 1.2 The original contract price for basic engineering services is \$329,355. The contract price is increased by \$77,100 for additional design services. The total amended cost for basic engineering services is \$406,455 (four hundred six thousand four hundred fifty five dollars and no cents).

3. Construction Services and Construction Staking Compensation

- 3.1 The original contract price for Construction Service is \$42,000. The contract price is increased by \$42,500 for additional construction services. The total estimated amended cost for construction services is \$84,500.

SECTION C – TIME OF SERVICES

1. Anticipated Completion

The following schedule will be maintained for the additional work:

	Week After Notice to Proceed	Tentative Date
<hr/> <ul style="list-style-type: none">• Authorization to proceed with additional work• Complete work Phase II• Complete Work Phase III		October 16, 2002 October 31,2002 March 1, 2002

THIS AMENDMENT is executed the _____ day of _____, 2002.

OWNER: CITY OF GREAT FALLS,
MONTANA

ENGINEER: THOMAS, DEAN &
HOSKINS, INC.

BY: _____
John W. Lawton
City Manager

BY: Gary A. Hendrix, P.E.
Secretary-Treasurer

ATTEST:

ATTEST:

Peggy J. Bourne
City Clerk

David Zahller, P.E.
President

APPROVED FOR LEGAL CONTENT

David V. Gliko
City Attorney