

REQUEST AUTHORIZATION FOR MAYOR AND FINANCE OFFICER TO SIGN PROFESSIONAL SERVICES AGREEMENT OR AMENDMENT

Date: March 22, 2011

Project Name & Number: Jackson Boulevard and West Main Street Intersection Reconstruction **CIP #:** 50858
Project No. 11-1945

Project Description: Project will reconstruct the intersection, including new water, sewer, storm sewer, signals, lighting, handicap ramps, and possible access improvements.

Consultant: HDR Engineering, Inc.

Original Contract Amount: \$136,056.00 **Original Contract Date:** 12/20/11 **Original Completion Date:**

Addendum No: 1

Amendment Description: Amendment for additional design services and ROW acquisition

Current Contract Amount:	\$136,056.00	Current Completion Date:	
Change Requested:	\$48,462.00		
New Contract Amount:	\$184,518.00	New Completion Date:	December 31, 2014

Funding Source This Request:

Amount	Dept.	Line Item	Fund	Comments
\$28,519.89	301	4223	101	
\$8,190.08	833	4223	604	
\$8,190.08	933	4223	602	
\$3,561.95	8911	4223	505	
\$48,462.00	Total			

Agreement Review & Approvals

Todd Pechel 8/29/13
Project Manager Date

Chase Suter 8/30/13
Compliance Specialist Date

City Attorney Date

Don Tim 9-3-13
Division Manager Date

Tony [Signature] 9-4-13
Department Director Date

ROUTING INSTRUCTIONS

Route **two** originals of the Agreement for review and signatures.
Finance Office - Retain one original
Project Manager - Retain second original for delivery to Consultant
cc: Public Works
Engineering
Project Manager

FINANCE OFFICE USE ONLY

(Note to Finance: Please write date of Agreement in appropriate space in the Agreement document)

Date	Initials	Approved
9/4/13	[Initials]	Y N
Appropriation		Y N
Cash Flow		Y N

AMENDMENT NO. 1 TO AGREEMENT

Project: Jackson Boulevard & West Main Street Intersection
Reconstruction Project.
Project No. 11-1945 / CIP No. 50858

Background Data: Effective Date of Agreement: December 20, 2011
Owner: City of Rapid City
Engineer: HDR Engineering, Inc.

Nature of Amendment: ROW acquisition services and additional design
services for the expanded Project limits.

Current Contract Amount: \$136,056.00

Change Requested: \$48,462.00

New Contract Amount: \$184,518.00

Owner and Engineer hereby agree to modify the above referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The effective date of this Amendment is:

_____.

CITY OF RAPID CITY:

By: _____
Mayor

Date Signed: _____

ATTEST:

By: _____
Finance Officer

Date Signed: _____

REVIEWED BY:

Todd Peckosh
Todd Peckosh, Project Manager

ENGINEER:

By: [Signature]
HDR Engineering, Inc.

Date Signed: Aug. 29, 2013



Project Background

HDR Engineering was selected by the City of Rapid City to complete design services for improvements at the intersection of Jackson Boulevard and West Main Street in Rapid City. The existing concrete pavement has deteriorated and reconstruction will allow possible improvements to the geometry, city and private utility replacement, and potentially the addition of bike lanes and access improvements.

While completing aspects of the preliminary design and public involvement phases, HDR encountered several out of scope items that differed from the assumptions and man-hour estimates in our original contract and the project construction date was pushed back by the City of Rapid City from 2014 to 2015. Therefore, this amendment proposal is being provided at the request of City staff to complete the design phase of the project through bidding services.

Project Phase 1 Scope of Services

TASK 1 – PRELIMINARY DESIGN SERVICES

The following tasks consist of items where additional services were necessary to take the project from initiation through the Preliminary Design Submittal stage.

- 1.3 Perform topographic site surveys sufficient for design plan preparation. Additional survey time was required to cover the additional project area at Cross Street and the storm sewer outfall.
- 1.6 Landowner Coordination: HDR was to arrange and conduct up to 12 individual property owner meetings regarding specific project issues and components. Additional time was/will be expended on the multiple rounds of landowner meetings and associated preparation work.
- 1.7 Preliminary Design Report: HDR will establish and indicate project specific design criteria and standards within the Preliminary Design Report (PDR).
 - Sanitary Sewer Design / Analysis:
 - a) HDR will coordinate with city utility staff for the investigation of sewer service connections including landowner communications and dye testing.
 - b) The location and condition (size/material) of sewer services shall be evaluated in the Project corridor. Non-conforming services shall be identified with recommendations to correct them.
Additional time was required researching the existing non-conforming services in the project limits and the identified private sewer system.
 - Storm Sewer Design / Analysis:
 - a) HDR will review and evaluate the existing Jackson Boulevard Drainage Basin Design Plan and, if applicable, recommend amendments to the plan. If an amendment to the Design Plan is needed, it will be done under a separate agreement. The evaluation shall include drainage modeling and calculation of flows discharged through the project area in accordance with city design criteria (2008 Edition, draft). HDR will

evaluate flows, capacity, condition, and provide recommendations for improvements to the elements within the project limits and adjacent elements that will be affected by this project and future improvements. Any recommendation for improvements outside of the project limits may be used by the City for future projects; no final designs are expected to be provided for these elements under this contract.

Due to the location and grades of this storm sewer outfall, HDR recommended that it be constructed with the project to alleviate existing and future storm drainage needs.

- b) HDR will evaluate potential water quality features for the project area and within the city storm sewer system and present options in the PDR. Any recommended features outside of the project limits may be used by the City for future projects; no final designs are expected to be provided for these elements under this contract.
Due to the installation of the new storm sewer outfall line, HDR recommends including water quality features at the outfall to Rapid Creek.

- **Intersection Geometry:**

- a) HDR will evaluate up to 5 options for intersection configurations including up to 3 options to be developed into conceptual layouts for consideration and a recommendation of the preferred alternative.
Throughout the private and public involvement project, HDR produced figures for the evaluation of 5 full options and sub-options.
- b) HDR will evaluate the need to install islands or medians in the project corridor and provide project recommendations.
Throughout the private and public involvement project, HDR evaluated multiple versions of raised median and driveway control improvements for the project.
- c) HDR will evaluate revisions to driveway/business access to improve functionality and safety and provide access management recommendations within Project area.
The original project limits were anticipated to extend approximately 100-200' west and south of the intersection and approximately 500' east of the intersection. Throughout the layout alternative process, it was identified to expand on these limits to meet the goals and access management improvements desired for the project.
- d) PDR will include conceptual construction sequencing and traffic control plans that will be further developed for the final plans of the preferred alternative.
The expanded roadway reconstruction limits and the inclusion of Cross Street into the project created additional time for sequencing and traffic control plans.

1.11 Consultant will prepare ROW exhibits (as necessary) for the City Attorney's office who will prepare the necessary documents for easement acquisition. The Consultant will arrange and coordinate meetings with individual property owners and city staff regarding ROW and permanent and temporary easement needs.

With the recommended access improvement layouts at Fisher Furniture and Ace Hardware, additional plat map figures and landowner negotiation meetings will be required for the project.

TASK 2 – FINAL DESIGN SERVICES

This task consists of all additional services necessary to take project from Task 1 Preliminary Design Services through the Final Design Services, and shall include the following itemized services. The original final design/plan production services was based on a construction cost estimate of \$1.0-\$1.5 million, however due to the changes and additions to the project in the preliminary design

phase, the current update construction estimates are over \$3 million which increased the corresponding efforts for HDR to produce the plan documents.

- 2.7 Provide any and all permits with exhibits required for the project that require City signatures. Identify permits that will be required for the Contractor.

Due to the installation of the new storm sewer outfall line, additional coordination and permitting will be required for the Canadian Pacific and Omaha Street crossings.

Project Phase 2 Scope of Services

Phase 2 services for this project are expected to consist of all services necessary for the administration of the Basic Construction Services of the project construction stage, and for the administration of the Expanded Construction Services of the project construction stage. Hours and costs for this Phase may or may not be negotiated at the conclusion of Phase 1 design and bidding.

Project Schedule

The originally proposed schedule for design services was based on the information provided in the Request for Proposals. This revised remaining schedule items are based on a future target of the summer 2015 construction season. HDR is prepared to meet these project deadlines as noted below and is always open to discussion on schedule adjustments to meet the City of Rapid City's goals for the project. The schedule allows 4 weeks for City review of 95% submittals.

95% Design Services Submittal
Final Plans and Specifications
Bid Letting

August 2014
September 2014
November 2014

EXHIBIT B
CITY OF RAPID CITY - JACKSON BOULEVARD & WEST MAIN STREET INTERSECTION RECONSTRUCTION PROJECT
Phase 1 - AMENDMENT #1 - PRELIMINARY, FINAL DESIGN & BIDDING SERVICES ENGINEERING FEE ESTIMATE

Additional Fee Total

Task 1 - Preliminary Design Services		
1.3 Topographic Survey		\$2,216
1.6 Landowner Coordination		\$4,434
1.7 Preliminary Design Report		\$3,616
Sanitary Sewer Design/Analysis		\$4,896
Storm Sewer Design/Analysis		\$7,056
Intersection Geometry Design/Analysis		\$4,384
1.11 ROW Exhibits and Property Owner Meetings		\$1,728
1.12 Project Management & QA/QC		
Task 1 Subtotal		\$28,330
Task 2 - Final Design Services		
2.1 65% Plan Submittal		\$14,040
2.7 Project Permits		\$3,578
2.10 Project Management & QA/QC		\$2,514
Task 2 Subtotal		\$20,132
TOTAL		\$48,462
TOTAL LABOR		\$48,112
TOTAL EXPENSES		\$350
AET GEOTECHNICAL SUBCONSULTANT		\$0
TOTAL NOT TO EXCEED FEE		\$48,462