AMENDMENT NO. 2 TO AGREEMENT

Project: FEMA LOMR – Southeast and Truck Bypass Drainages  
Project No. 20-2569/CIP No. 51275

Background Data: Effective Date of Agreement: February 21, 2020  
Owner: City of Rapid City  
Engineer: Ferber Consulting Engineers

Nature of Amendment:  
The amendment to the agreement includes adjustment of the project schedule,  
adjustment of contract amount to reflect current billing rates, and additional project tasks  
determined to be necessary for completion of the LOMR, as reflected in attached  

Current Contract Amount: $43,570.00

Change Requested: $59,120.00

New Contract Amount: $102,690.00

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:                      Engineer:

By: ________________________________  
  Steve Allender, Mayor

Date Signed: ________________________  Date Signed: 7-15-21

ATTEST:

By: ________________________________  
  Pauline Sumption, Finance Director

Date Signed: ________________________
EXHIBIT A – AMENDMENT 2

The City has determined the need to procure professional services to complete a Letter of Map Revision (LOMR) for a limited area within the Southeast Drainage and the Truck Bypass drainages in southeast Rapid City. This work is necessary to correct the existing regulatory floodplain to reflect the modifications made to Highway 79 and the construction of the Southeast Connector by the SDDOT under Project NH 0235(1)0.

AMENDMENT 2 – During completion of the original contract, it was found that nearly one half of the flow reaching Highway 79 in the Truck Bypass drainage is diverted down the west ditch line of Highway 79 to Minnesota Street. The split flow results in substantial modifications to the Robbinsdale Drain and the Southeast Drainage floodplains. AMENDMENT 2 addresses items specifically outlined by FEMA required to be met in order to complete the LOMR. Additionally, AMENDMENT 2 will add an additional regulatory floodplain along the west ditch of Highway 79. Items in BOLD are those added for this amendment.

TASK 1 – Data Gathering:

1.1 The consultant coordinate with City Staff and FEMA during the course of this project as necessary.
1.2 Obtain background plans and design reports.
1.3 Obtain City property parcels and most recent aerial photography.
1.4 Obtain 2001 City aerial imagery.
1.5 Obtain effective regulatory flood models and digital Special Flood Hazard Area (SFHA) features for Southeast Drainage and Truck Bypass Drainage from FEMA.

TASK 2 – Survey and Data Reduction:

2.1 Collect existing geometric data for drainageways, drainage crossings and at existing effective model cross section locations.
   
   - Extent of Southeast Drainage detailed study from RS 14851 to RS 18163 (~900' downstream of Catron Boulevard to 1,500' upstream of Catron Boulevard)
     - AMENDMENT 2 – Extend Southeast Drainage downstream detail study limit from RS 14851 to RS 9553
   - Extent of Truck Bypass Drainage detailed study from RS 187 to RS 2952 (from confluence with Southeast Drainage to approximately 1,300' upstream from Highway 79)
     - AMENDMENT 2 – Extend Truck Bypass upstream detailed study limited from RS 2952 to RS 7655.
   - AMENDMENT 2 – Collect geometric information for west ditch line of Highway 79 (Truck Bypass Split).
   - AMENDMENT 2 – Collect geometric data and topography north and east
of the intersection of Minnesota Street and Highway 79 for the Robbinsdale Drain updates.

2.2 Create existing ground surface model.

TASK 3 – Hydraulic Model and Delineation:

3.1 Complete verification model runs of effective Southeast Drainage and Truck Bypass Drainage.
   - AMENDMENT 2 – complete verification run of effective Robbinsdale Drain model

3.2 Create updated hydraulic models to account for existing drainage structures and updated cross section geometry.
   - AMENDMENT 2 – create split flow model for Truck Bypass at Highway 79.
   - AMENDMENT 2 – add split flow to Robbinsdale Drain model at appropriate location near Minnesota Street and Highway 79.
   - AMENDMENT 2 – adjust flow data and rerun Southeast Drainage with reduced flow from RS 15337.

3.3 Create appropriate comparisons of existing and effective flood model runs.

3.4 Generate updated 1%-annual chance (1%-AC) and 0.2%-AC floodplain delineations.
   - AMENDMENT 2 – Add Truck Bypass Split, revised Robbinsdale Drain and revised reach of Southeast Drainage downstream to RS 9553.

3.5 Generate 1%-AC base flood contours.

TASK 4 – Deliverable Development and Application Submittal:

4.1 Prepare model report outlining development of the models and updated flood characteristics.
   - AMENDMENT 2 – Add Truck Bypass Split, revised Robbinsdale Drain and revised reach of Southeast Drainage downstream to RS 9553.
   - AMENDMENT 2 – Revise Flood Discharge Table, Hydraulic Summary Table and Floodway Table
   - AMENDMENT 2 – Revise Profiles 118P-119P (Robbinsdale), 127P-128P (Southeast Drainage) and 137P-138P (Truck Bypass).
   - AMENDMENT 2 – Add Profiles for Truck Bypass Split.

4.2 Create required exhibits for report.
   - AMENDMENT 2 – Add Truck Bypass Split, revised Robbinsdale Drain and revised reach of Southeast Drainage downstream to RS 9553.
4.3 Prepare and submit appropriate FEMA application forms along with appropriate application fees.
   - AMENDMENT 2 – REVISE LOMR application to include Truck Bypass Split and Robbinsdale Drain.

4.4 Prepare public notifications, as necessary, and deliver to City for publishing and/or distribution.
   - AMENDMENT 2 – Complete and submit Community Acknowledgement Form for Pennington County acceptance.

4.5 AMENDMENT 2 – Respond to FEMA comments.

Anticipated Completion Date is July 30, 2022, dependent upon FEMA review and publication of final LOMR.
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<th>Description</th>
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<td><strong>CONTRACT TOTAL FOR TASKS 1 - 4</strong></td>
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Task 4 includes $8,250 for FEMA LOMR Application Fee; to be used in the event that FEMA deems responses to initial comments unresponsive.
# EXHIBIT C – AMENDMENT 2

## 2021 SCHEDULE OF CHARGES

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FIGURE 1. TRUCK BYPASS, SOUTHEAST DRAINAGE AND ROBBINSDALE DRAIN PROJECT AREAS.

PROJECT AREAS

AMENDMENT 2

FIS STREAMLINES

EFFECTIVE FLOODZONE

A

AE

AH

AO

X 0.2PCT

PLSS SECTIONS

PLSS TOWNSHIP

ORIGINAL PROJECT AREA

ROBBINSDALE DRAIN

SOUTHEAST DRAINAGE

TRUCK BYPASS

AMENDMENT 2

AMENDMENT 2

SOUTHEAST DRAINAGE BASIN

ORIGINAL AND AMENDMENT 2 PROJECT AREAS.