



Roll Call Number

20-1645

Agenda Item Number

10

Date October 19, 2020

APPROVING CHANGE ORDER NO. 6 WITH JASPER CONSTRUCTION SERVICES, INC., FOR ADDITIONAL WORK ON COURT AVENUE, SW 1st STREET, AND SCOTT AVENUE BRIDGE REHABILITATIONS, IN THE AMOUNT OF \$409,223.25

BE IT RESOLVED by the City Council of the City of Des Moines, Iowa, that the attached Change Order No. 6 between the City of Des Moines and Jasper Construction Services, Inc., Cliff Rhoads, President, 928 N 19th Avenue East, Newton, IA, 50208, for additional work on Court Avenue, SW 1st Street, and Scott Avenue Bridge Rehabilitations, in the amount of \$409,223.25, be and is hereby approved, and the City Manager is authorized and directed to execute said change order.

(City Council Communication Number 20-452 attached) Activity ID 12-2017-003

Moved by Boesen to adopt.

FORM APPROVED: s/Kathleen Vanderpool Kathleen Vanderpool Deputy City Attorney

Funding Source: Court Avenue Bridge: 2020-2021 CIP, Page Bridge – 5, Court Avenue Bridge over the Des Moines River, BR054, TIGER SW 1st Street Bridge: 2020-2021 CIP, Page Bridge – 12, SW 1st Street Bridge over Raccoon River, BR056, TIGER, Gaming Monies Scott Avenue Bridge: 2020-2021 CIP, Page Bridge – 9, Scott Avenue Bridge over the Des Moines River, BR051, TIGER

Table with 5 columns: COUNCIL ACTION, YEAS, NAYS, PASS, ABSENT. Rows include COWNIE, BOESEN, GATTO, GRAY, MANDELBAUM, VOSS, WESTERGAARD, and TOTAL (7 yeas).

CERTIFICATE

I, P. Kay Cmelik, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

MOTION CARRIED APPROVED J. M. Franklin Cownie Mayor

P. Kay Cmelik City Clerk

20-1645



Court Avenue, SW 1st Street, and
Scott Avenue Bridge Rehabilitations
City Activity ID: 12-2017-003

CHANGE ORDER
For Local Public Agency Projects

Non-Substantial:

No. 6

Substantial:

Administering Office
Concurrence Date

Project Number: STP-U-1945(839)--70-77

Accounting ID No. (5-digit number): 34964

Local Public Agency: City of Des Moines

Kind of Work: Bridge Rehabilitation

Date Prepared: September 30, 2020

Contractor: Jasper Construction Services

You are hereby authorized to make the following changes to the contract documents.

A – Description of change to be made:

SW 1st Bridge (Site 03)

- Line Number 1030 "Deck Repair, Class B"; Decrease quantity by 49.1 SY to a final authorized quantity of 25.9 SY.
- Line Number 1040 "Deck Repair, Class A, Special"; Decrease quantity by 225.8 SY to a final authorized quantity of 568.2 SY.
- Line Number 1070 "Concrete Repair, Arches"; Decrease quantity by 337.0 SF to a final authorized quantity of 790.0 SF.
- Line Number 1080 "Concrete Repair, Sidewalks"; Decrease quantity by 99.2 SF to a final authorized quantity of 265.8 SF.
- Line Number 1090 "Concrete Repair, Substructures"; Decrease quantity by 2.5 SF to a final authorized quantity of 130.5 SF.
- Line Number 1100 "Concrete Repair, Transverse Frames"; Increase quantity by 226.4 SF to a final authorized quantity of 465.4 SF.
- Line Number 1130 "Removal of Sidewalk"; Decrease quantity by 103.2 SY to a final authorized quantity of 41.8 SY.
- Line Number 1140 "Sidewalk, PCC, 6" "; Decrease quantity by 133.4 SY to a final authorized quantity of 11.6 SY.
- Line Number 1250 "Clean, Cover, Seal for Deck Underside Repair; Increase quantity by 527.0 SF to an authorized quantity of 1245.0 SF.
- Line Number 1260 "Clean and Seal for Deck Underside Repair; Decrease quantity by 100.8 SF to an authorized quantity of 318.8 SF.

- 8033: Add "Flood Debris Removal"; which includes all labor and equipment to remove flood debris lodge in the SW 1st Street bridge.
- 8034: Add "Curb and Gutter"; which includes all labor, equipment, and materials to remove and replace 26.5 LF of curb and gutter at the northwest corner to facilitate proper sidewalk construction.
- 8035: Add "Intake Adjustment, Major"; which includes all labor, equipment, and materials for removal of intake tops and walls, reconstructing intake walls, reconstructing intake tops, pouring intake throat/curb, and all necessary excavation and backfill for the northeast and southeast structures, two structures total.
- 8036: Add "Railing, Remove and Reinstall"; which includes all labor, equipment, and materials to carefully remove the existing railing, core drill the old past bases out of the deck, repair and patch the concrete cores, reinstall the refabricated railing with drilled in and epoxied anchors, and install several missing stainless-steel cables.

Scott Ave. (Site 02)

- Line Number 0560 "High Performance Structural Concrete"; Reduce quantity to zero (0).
- Line Number 0690 "Concrete Repairs – Barrier Rails"; Add 1516.1 SF for a final authorized total quantity of 1916.1 SF.
- Line Number 0700 "Concrete Repairs - Miscellaneous"; Increase by 370 SF to an authorized quantity of 660 SF.

- 8037: Add "Traffic Control Modifications"; which includes modifying traffic control signage as directed related to Scott Ave. detour route.
- 8038: Add "Barrier Rail Sloped End Sections"; which includes all cost to remove the existing sloped end sections at each corner of the bridge and reconstruct new sloped end sections integral with the approach paving, matching the original plan details.
- 8039: Add "Approach Pavement EF Joints"; which includes all labor, equipment, and materials to install a full-width EF joint in the north and south bridge approach pavement sections.
- 8040: Add "Paving Notch, Stainless Steel Dowels"; includes all labor, equipment, and materials to drill and epoxy stainless steel dowels into the north and south abutment paving notches.
- 8041: Add "Closure Notification Signs", which includes labor and materials to install eight advance closure signs on the bridge sidewalks.
- 8042: Add 2403-0100010 "Structural Concrete (Bridge)", Qty = 107.0 CY. Same ERI notes for Line Number 0560 apply, except the specified DS is not applicable.

B – Reason for change:

SW 1st Bridge (Site 03)

All line number adjustments are based on an increase or decrease in work as determined in the field by City inspector and contractor.

- 8033: Flood debris removal was not included in the contract scope and the debris needed removed from the bridge.
- 8034: In order to construct an accessible sidewalk connection at the northwest, 26.5 LF of curb and gutter needed to be removed and reconstructed.
- 8035: Based on grades and field adjustment of approach pavement and curbs, the adjacent intake structures at the northeast and southeast required substantial modification and reconstruction.
- 8036: The existing railing bases were substantially corroded with the paint system failing due to the original installation method. This additional work, in conjunction with change order Item 8030, fully repairs the railing and reinstalls in a manner consistent with current practices.



Form 831240 (12-15)
modified

Accounting ID No. (5-digit number): 34964
Change Order No: 6

Scott Ave. (Site 02)

All line number adjustments are based on an increase or decrease in work as determined in the field by City inspector and contractor. Additional information for line numbers may follow.

Line Number 0560 "High Performance Structural Concrete"; Material being changed to standard structural concrete via Item #8042. Line Number 0690 "Concrete Repairs". Estimated plan quantity severely underestimated the amount of deterioration in the barrier rail. Also the amount of time lapsed from plan development to construction (>5 yrs) could have attributed to this large quantity increase.

- 8037: Based on field remove of detour signs and feedback from traveling public, slight modifications were made to the traffic control signage.
- 8038: The plan details did not account for the sloped barrier rail end sections to be integral with the approach paving. With the removal and replacement of the approach paving, the sloped end sections also needed removed and replaced.
- 8039: The plans did not detail any expansion in the bridge approach pavement details, so an EF joint detail needed to be included.
- 8040: The plans called for the existing paving notch dowels to be preserved, but the existing dowels were heavily corroded and were not in a condition to salvage. Therefore, new stainless-steel dowels were added.
- 8041: Advance closure signs on the sidewalk were necessary to provide recreational anglers specific closure information for the project.
- 8042: This item is being added to substitute Line Number 0560 that is being effectively deleted. Past projects have had issues with HPC concrete cracking, so the material is being changed to standard C4 structural concrete.

C – Settlement for cost(s) of change as follows with items addressed in Sections F and/or G:

All Line Number items are adjustments made at Contract Unit Prices. Note: Although Line Number 0690 quantity is increasing significantly, the contractor has indicated that the unit cost for this repair is the lowest they are able to go and are not able to renegotiate the price.

- 8033: Lump Sum cost provided by contractor = \$600.00 Lump Sum
- 8034: Linear Foot cost provided by contractor = \$35 per LF x \$26.50/LF = \$927.50 (total).
- 8035: Cost provided by contractor for EACH major adjustment = \$3,750 EACH x 2 intakes = \$7,500.00 (total).
- 8036: Lump Sum cost provided by the contractor = \$80,036.59.
- 8037: Lump Sum cost provided by subcontractor = \$475.00 + \$100.00 min. prime markup = \$575.00 Lump Sum.
- 8038: Cost provided by contractor = \$2,500.00 EACH x 4 corners = \$10,000 (total).
- 8039: Lump Sum cost provided by contractor = \$3,083.71
- 8040: Lump Sum cost provided by contractor = \$1,445.45
- 8041: Cost provided by contractor = \$628.00 Lump Sum
- 8042: Unit cost is same unit cost as Line Number 0560. Unit Price = \$1,350.00 CY

D – Justification for cost(s) (See I.M. 3.805, Attachment D, Chapter 2.36, for acceptable justification):

All Line Number items are adjustments made at Contract Unit Prices.

- 8033: Lump Sum cost seems reasonable for the equipment and labor to use an under bridge platform lift and cut up the flood debris to be removed.
- 8034: Linear Foot price submitted is reasonable for similar item or work completed in the City and is less than DOT's average unit cost.
- 8035: Cost per EACH major adjustment seems reasonable for the major modifications required and fall within typical cost ranges for similar type modifications.
- 8036: Lump Sum cost is supported by detailed labor, equipment, and material records for the required work.
- 8037: Lump Sum cost seems reasonable for the traffic control modifications requested.
- 8038: Cost breakdown provided by contractor: \$700 for each section removed and \$1800 for replacement (\$150/LF x 12' slope section), equals \$2,500 per 12 ft. sloped end section. Cost is reasonable and comparable to similar items of work.
- 8039-8041: Lump Sum cost is supported by material and labor breakdown and seems reasonable for the scope of work.
- 8042: Although material is changing, the impact to overall unit cost is negligible as labor and equipment remain the same as Line No. 0560.

E - Contract time adjustment: No Time added Time added: _____ Unknown at this time

Justification for selection:

F – Items included in contract:

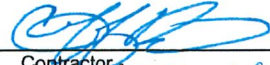
Participating		Line Number	Item Description	For deductions enter as "-x.xx"		"(x.xx)" = Deduction
Federal-aid	State-aid			Unit Price .xx	Quantity .xxx	Amount .xx
X		0560	High Performance Structural Concrete	\$1,350.00	-107.000	(\$144,450.00)
X		0690	Concrete Repair – Barrier Rails	\$100.00	1516.100	\$151,610.00
X		0700	Concrete Repair – Miscellaneous	\$150.00	370.000	\$55,500.00
X		1030	Deck Repair, Class B	\$500.00	-49.100	(\$24,550.00)
X		1040	Deck Repair, Class A Special	\$75.00	-225.800	(\$16,935.00)
X		1070	Concrete Repairs, Arches	\$200.00	-337.000	(\$67,400.00)
X		1080	Concrete Repairs, Sidewalks	\$60.00	-99.200	(\$5,952.00)


X		1090	Concrete Repairs, Substructures	\$200.00	-2.500	(\$500.00)
X		1100	Concrete Repairs, Transverse Frames	\$200.00	226.400	\$45,280.00
X		1130	Removal of Sidewalk	\$15.00	-103.200	(\$1,548.00)
X		1140	Sidewalk, PCC, 6"	\$70.00	-133.400	(\$9,338.00)
X		1250	Clean, Cover, Seal for Deck Underside Repair	\$300.00	527.000	\$158,100.00
X		1260	Clean and Seal for Deck Underside Repair	\$200.00	100.800	\$20,160.00
SUB-TOTAL						\$159,977.00


G – Items not included in contract:


Participating					For deductions enter as "-x.xx"		
Fed-aid	State-aid	Change Number	Item Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
X		8033	2599-9999010	Flood Debris Removal (LS)	\$600.00	1.000	\$600.00
X		8034	2599-9999009	Curb and Gutter (LF)	\$35.00	26.500	\$927.50
X		8035	2435-0600120	Intake Adjustment, Major (EACH)	\$3,750.00	2.000	\$7,500.00
X		8036	2599-9999010	Railing, Remove and Reinstall (LS)	\$80,036.59	1.000	\$80,036.59
X		8037	2599-9999010	Traffic Control Modifications (LS)	\$575.00	1.000	\$575.00
X		8038	2599-9999005	Barrier Rail Sloped End Sections (EACH)	\$2,500.00	4.000	\$10,000.00
X		8039	2599-9999010	Approach Pavement EF Joints (LS)	\$3,083.71	1.000	\$3,083.71
X		8040	2599-9999010	Paving Notch, Stainless Steel Dowels (LS)	\$1,445.45	1.000	\$1,445.45
X		8041	2599-9999010	Closure Notification Signs (LS)	\$628.00	1.000	\$628.00
X		8042	2403-0100010	Structural Concrete (Bridge) (CY)	\$1,350.00	107.000	\$144,450.00
SUB-TOTAL							\$249,246.25
TOTAL							\$409,223.25

H. Signatures

Agreed:  9/30/20
Contractor Date

Recommended:  10/2/20
Project Engineer Date

Approved:  10/20/2020
City Engineer Date

 10.14-2020
City Manager Date

Iowa DOT Administering Office Date

Date

Approval is contingent upon funds being available under the existing project agreement or upon additional Federal-aid funds being made available by a modified project agreement.

FHWA Concurrence: _____
Federal Highway Division Administration Date

CIP Information		Funding Status	
CIP Page:	Bridge – 5	Adequate	<u>DMK</u>
Object Code:	543010	Transfer	_____
Organization:	C032EG99	Account	_____
Project:	BR054	Fund	_____
Activity ID:	12-2017-003	Project	_____

DISTRIBUTION (after fully executed on LPA projects):
Original – Finance; Copies – Contractor, Project Engineer, Contracting Authority, Administering Office.

Date distributed: _____ Initials: _____