CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: December 7, 2020

ITEM:

Motion – Approving Change Order #5
NE Basin Storm Sewer Improvements – Connections to 4th Street & Ashworth Road

FINANCIAL IMPACT:

Contract Summary:

Description	Amount	Date Approved	Remarks
Construction Contract	$1,329,274.30	June 15, 2020	
Change Order #1	$16,359.87	August 14, 2020	Century Link Excavation
Change Order #2	$9,825.00	August 14, 2020	Temporary Manhole
Change Order #3	$4,770.35	September 29, 2020	Modified West Bank Access
Change Order #4	$13,914.44	October 19, 2020	Utility Support/Protection
Change Order #5	$124,566.63	Pending	Miscellaneous
Total	**$1,498,710.59**		

Costs for these change order items will be paid from account no. 660.000.000.5250.490 and account no. 500.000.000.5250.490 with the ultimate funding intended to come from Stormwater Utility Fees and Road Use Tax, respectively.

BACKGROUND:

This project includes reconstruction of the existing storm sewer from 4th Street near Valhigh Street to the new Walnut Creek Outfall reinforced concrete box (RCB) culvert as well as the construction of new storm sewer from the 100-200 Block of Ashworth Road to the new Walnut Creek Outfall RCB culvert. The stretch of storm sewer through the Fareway site at 329 Grand Avenue was previously constructed as part of previous site development. These storm sewer improvements were identified in the NE Basin Drainage Study completed by HR Green in 2012 and will ultimately support future storm sewer improvements along Ashworth Road and Valhigh Street. In addition to these storm sewer improvements, the project will also include construction of a public access road extending east to west from 1st Street to Fareway's parking lot and another public access road extending north to south on the west side of the Val Lanes property connecting Ashworth Road to the other public access road just described. These access roads are necessary to be able to provide access to the businesses on the north side of Grand Avenue from 1st Street to 4th Street during the reconstruction of Grand Avenue from 1st Street to 4th Street in 2021.

Change Order #5 includes costs for storm sewer/structure modifications, placement of additional macadam stone under the RCB culvert due to groundwater encountered during excavation, placement of granular backfill over the newly constructed RCB culvert in order to expedite the replacement of concrete pavement in the West Bank parking lot yet this construction season, and cold weather protection charges for placement of remaining concrete yet this construction season. City Staff recommend approval of Change Order #5.

This agenda item was distributed to the Public Services Subcommittee by e-mail only since there was no meeting.

OUTSTANDING ISSUES: None.

RECOMMENDATION:

City Council Adopt:

- Motion Approving Change Order #5 for NE Basin Storm Sewer Improvements – Connections to 4th Street & Ashworth Road.

Lead Staff Member: Brian J. Hemesath, P.E., City Engineer

STAFF REVIEWS

Department Director	Brian J. Hemesath, P.E., City Engineer
Appropriations/Finance	Tim Stiles, Finance Director
Legal	Richard Scieszinski, City Attorney
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	
Dates(s) Published	

SUBCOMMITTEE REVIEW (if applicable)

Committee			
Date Reviewed			
Recommendation	Yes	No	Split

CITY OF WEST DES MOINES

Engineering Services
4200 Mills Civic Parkway, Ste 2D
Wes Des Moines, IA 50265-0320
(515) 222-3475 Fax (515) 273-0603

CHANGE ORDER

Distribution:

Owner	X
Engineer	X
Contractor	X
Other	

Contractor: **Absolute Concrete Construction**
1000 West 6th Avenue
Slater, IA 50244

Project Title	NE Basin Storm Sewer Improvements, Ashworth Rd, 4th St	
WDM Project File Number	0510-058-2015	
Purchase Order Number	2020-00000955	
Orig. Contract Amount & Date	$1,329,274.30	June 15, 2020
Change Order Number	5	
Date	December 2, 2020	

THE CONTRACT IS CHANGED AS FOLLOWS:

Major adjustment of the sanitary sewer manhole at 57+45 involved complications due to its existing condition. This will involve the following changes to the contract:
Item 6.11 (Eliminate): **Quantity is changed to zero.**
Item CO 5.1 (Add): **Item covers manhole adjustment including extra work to modify the existing structure.**

Additional volume of macadam stone base above plan quantity is needed to create a solid base in RCB culvert trench. Groundwater infiltration into the trench resulted in an unsuitable base requiring extra stone.
Item 12.2 (Quantity adjustment): **Increase quantity from 234 ton to 510 ton.**

Change order 5 included an additional manhole near the Casey's/West Bank shared access to connect existing storm sewer to the RCB culvert. To save time, that item will be eliminated. Instead, a series of pipe connections is proposed that would involve connecting the existing concrete pipe to a ductile iron pipe, and connecting the ductile iron pipe to the RCB culvert.
Item CO 4.2 (Eliminate): **Quantity is changed to zero.**
Item CO 5.2 (Add): **Includes pipe connections as described above.**

Due to unexpected delays in acquiring property access rights, work has been delayed later into the season, which will require changes to allow work to continue during cold weather.
Item CO 5.3 (Add): **Add item for cold weather protection of PCC paving. Payment is full compensation for furnishing all materials, equipment and labor necessary for cold weather protection. Price includes all required burlap, plastic, film, and insulation blankets. Refer to Plan Change 4.**
Item CO 5.4 (Add): **Add item for cold weather protection of structural concrete for construction of the RCB culvert. Payment is full compensation for furnishing all materials, equipment and labor necessary for cold weather protection. Price includes all required burlap, plastic, film, and insulation blankets. Protection to meet minimum SUDAS requirements.**
Item CO 5.5 (Add): **Add item for cost increase associated with cold weather PCC mix. Includes hot water and 1% non-chloride accelerator. Quantity is for 255.5 CY of structural concrete associated with the RCB culvert plus 543 CY associated with PCC paving.**
Item CO 5.6 (Add): **Add item for ground thawing machine - rent only. This is intended to be used on days when machine is not in operation but contractor is paying rental fee and machine remains on site. Must be approved by Kirkham Michael and City prior to use.**
Item CO 5.7 (Add): **Add item for ground thawing machine - rent and fuel. This is intended to be used on days when machine is in operation. Must be approved by Kirkham Michael and City.**
Item CO 5.8 (Add): **Add item for special backfill above RCB culvert trench. Backfill is likely to occur when temperatures are below freezing, inhibiting compaction. Unit prices includes export of earth waste that will no longer be used as backfill. Refer to Plan Change 4. Item to be paid based on the unit price per ton of rock placed.**

Item	Description	Unit	Unit Price	Quantity Adjustment	Value Adjustment
6.11	Manhole Adjustment, Major	LS	$2,700.00	(1)	($2,700.00)
12.2	Macadam Stone Base	TON	$40.25	276	$11,109.00
CO 4.2	Manhole, SW-401, 48" Plus Pipe Connections	LS	$12,970.00	(1)	($12,970.00)
CO 5.1	Manhole Adjustment, Major, Special	LS	$5,400.00	1	$5,400.00
CO 5.2	SE Box Culvert Connection	LS	$5,495.00	1	$5,495.00
CO 5.3	Cold Weather Protection - Paving	SY	$10.00	3258	$32,580.00
CO 5.4	Cold Weather Protection - Structural	CY	$9.25	255.5	$2,363.38
CO 5.5	Cold Weather PCC Mix	CY	$10.75	799	$8,589.25
CO 5.6	Ground Thawing Machine - Rent Only	CDAY	$375.00	4	$1,500.00
CO 5.7	Gound Thawing Machine - Rent and Fuel	CDAY	$775.00	6	$4,650.00
CO 5.8	Special Backfill Above RCB Culvert	TON	$30.00	2285	$68,550.00
				TOTAL	$124,568.63

CHANGE ORDER SUMMARY	
The Original Contract Sum was	$1,329,274.30
Net Change by previously authorized Change Orders	$44,869.66
The Contract Sum prior to This Change Order was	$1,374,143.96
The Contract Sum will be **increased** by this Change Order in the amount of	$124,566.63
The new Contract Sum including this Change Order will be	**$1,498,710.59**
Aggregate Change Order as a percent of Original Contract (if greater than 10% of the original contract, Council Subcommittee recommendation and all signatures through the full Council are required)	12.75%
The Contract Time will be **changed** by	0 Days
The date of Final Completion as of the date of this Change Order therefore is	December 6, 2020

NOT VALID UNTIL SIGNED BY THE CONTRACTOR, OWNER'S REPRESENTATIVE (if applicable) AND OWNER

Contractor:	Recommended By:	Checked By: CJC CK [redacted] JS
Absolute Concrete	Kirkham Michael	City of West Des Moines
Signature: Alonzo Barkley (Alonzo Barkley (Dec 2, 2020 13:59 CST))	Signature: Benjamin Michael Smith	Signature:
Name: Alonzo Barkley	Name: Ben Smith	Name: Brian Hemesath
Title: Project Manager	Title: Project Engineer	Title: City Engineer
Date: Dec 2, 2020	Date: Dec 2, 2020	Date: Dec 2, 2020

Owner: **City of West Des Moines**

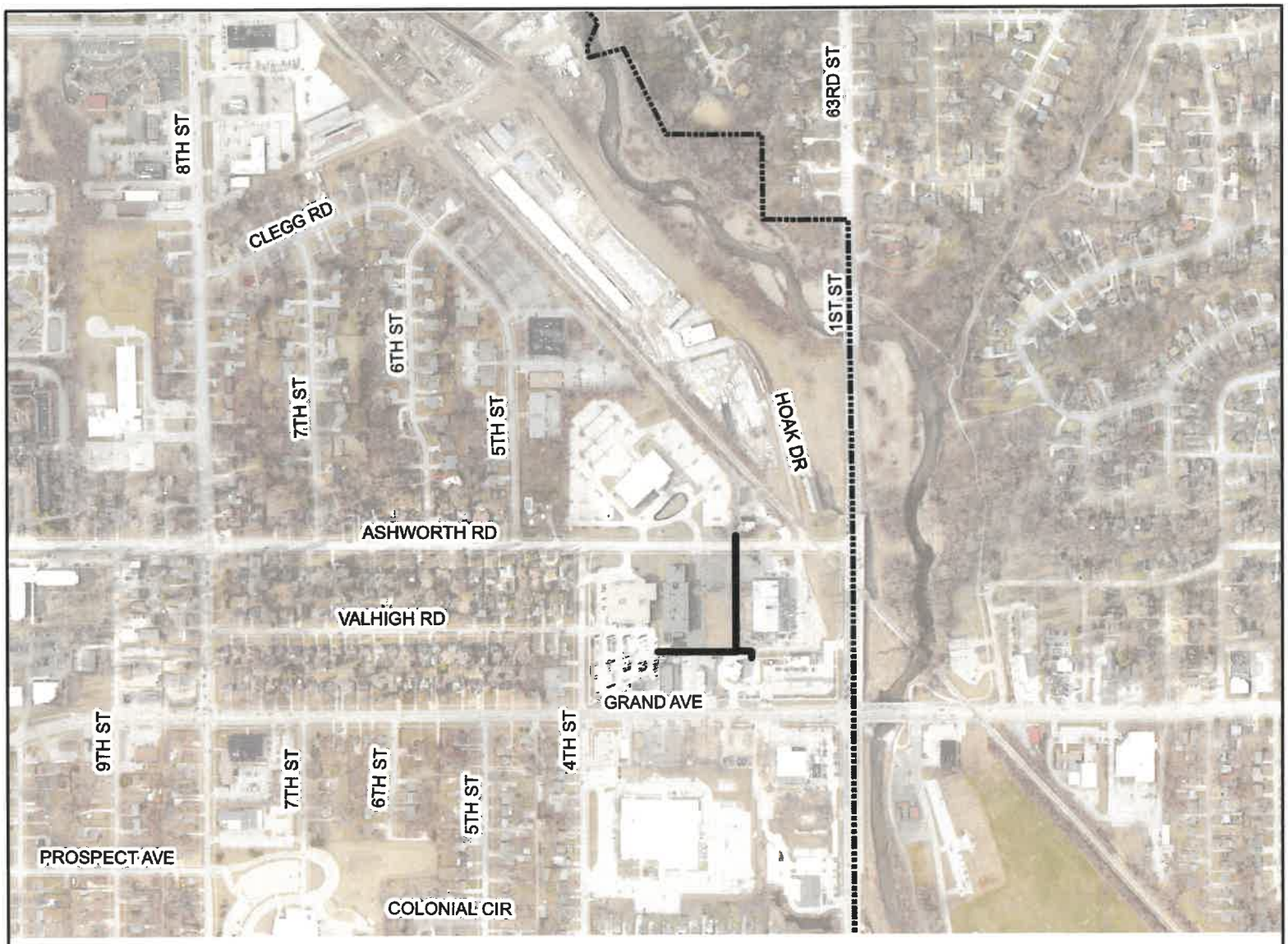
☐ ≤	$24,999.99 City Engineer (≤ 10% original contract)	x_____	Date _____
☐ ≥	$25,000 to $50,000 City Council approved or ratified at Council		Date_____

Signature: Clint Carpenter

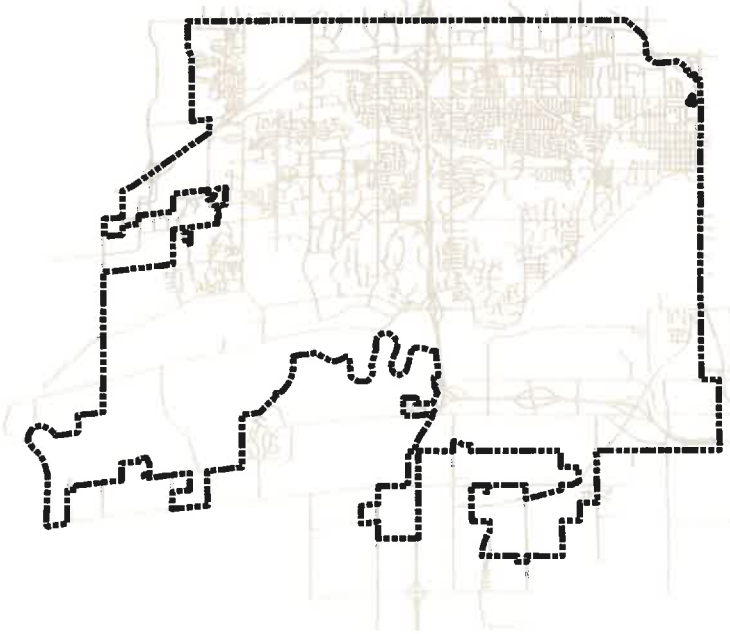
Email: Clint.Carpenter@wdm.iowa.gov

Signature: Jason Schlickbernd (Dec 2, 2020 14:38 CST)

Email: jason.schlickbernd@wdm.iowa.gov



VICINITY MAP



LEGEND

PROJECT LOCATION

N
W E
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THE CITY OF WEST DES MOINES

PROJECT:

4th Street and Ashworth Road Storm Sewer Improvements

LOCATION:

DRAWN BY: REF	DATE: 01/07/2019	PROJECT: 0510-056-2015	SHT. 1 of 1