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Public Works

City Transit
263-8152

MEMORANDUM

Equipment Maintenance
Roadway Maintenance
Collection & Drainage
Building & Grounds
Engineering

To: Randy Hill, Public Works Director

FROM: Jon Lutz, City Engineer

DATE: April 12, 2013

RE: Hershey Ave Reconstruction Project – Accept completed work

INTRODUCTION:

Construction plans and specifications for the Hershey Avenue Reconstruction Project were prepared by Stanley Consultants. The construction cost estimate was \$1,400,000.00. The project was bid on March 15, 2011. The City of Muscatine entered into an agreement with Sulzberger Excavating in the amount of \$1,078,751.93 for reconstruction of Hershey Avenue from Newcomb Blvd to Clinton Street on April 7, 2011. Construction began on May 5, 2011 and was open to traffic by November 18, 2011. During the summer of 2012, final punch list items and IDOT inspections, audits and forms were completed. The IDOT final audit was conducted on December 10, 2012. IDOT approved the final audit and change order 5 on April 2, 2013.

BACKGROUND:

This project was undertaken to widen and upgrade one of our arterial roads in a manner consistent to the complete streets philosophy. Sidewalks were added from Newcomb Blvd to Charles Street and existing deteriorated sidewalks from Charles to Clinton were rebuilt. Retaining walls were constructed in areas where street widening conflicted with steep grades on the north side of the project to both control erosion and improve appearance. Storm sewer modifications were constructed to resolve drainage and erosion issues along the project. Utilities were relocated as required to accommodate the new configuration. Existing concrete pavement was used where practical. Gravel parking lanes on the south side between Charles and Clinton were hard surfaced. General grading and fence relocation improvements were performed between Houser and Charles.

Five change orders were necessary to complete the project.

Change order 1 included storm sewer revisions to address field conditions that were found to be different than shown on the plans.

**"I remember Muscatine for its sunsets. I have never seen any
on either side of the ocean that equaled them" — Mark Twain**

Change order 2 addressed poor existing pavement conditions discovered under the milled asphalt between Grover and Gilbert. The plans called for asphalt overlay on repaired pavement. Because almost all of the pavement in this 2 block area required replacement, it was more economical to replace with full depth concrete.

Change order 3 was added to make use of City crushed material for use under the pavement, driveways and sidewalks. This on hand recycled material was installed at a much lower cost than purchased material from a quarry.

Change order 4 included the same concrete pavement solution as in change order 2 for the area between Charles and Grover. Half of the roadway in this stretch was required to be removed for storm sewer improvements. The remaining half was significantly deteriorated.

Change order 5 was required as part of the IDOT process of adjusting pay item quantities for audit and close out.

Change orders 1 through 5 and other quantity adjustments resulted in a net increase of \$139,955.77 for a contract total of \$1,218,707.70.

The total amount paid to date is \$1,181,933.33 leaving total due of \$36,774.37. Retainage of 3% equaling \$36,561.23 results in a final payment due of \$213.14.

The city inspector and city engineer have examined the work and verified all punch list items have been corrected.

IDOT reimbursement through Federal STP funding in the amount of \$381,000.00 will be applied.

RECOMMENDATION/RATIONALE:

It is the City Engineer's recommendation to accept the completed improvements and issue final payment of \$213.14 with payment of 3% retainage in the amount of \$36,561.23 after 30 days.

BACKUP INFORMATION:

1. Final pay application.

RESOLUTION NO. _____

**RESOLUTION ACCEPTING COMPLETED WORK PERFORMED UNDER
HERSHEY AVENUE RECONSTRUCTION PROJECT
AND AUTHORIZING FINAL PAYMENT**

WHEREAS, the City of Muscatine approved the Plans, Specifications, and Form of Contract for the Hershey Avenue Reconstruction Project; and

WHEREAS, the City of Muscatine entered into a contract for said project with Sulzberger Excavating for \$1,078,751.93 with five (5) change orders and other adjustments, for a total contract amount of \$1,219,707.70; and

WHEREAS, all work under the contract has been completed by Sulzberger Excavating and approved and accepted by the City Engineer and appears to meet the requirements of the Plans and Specifications heretofore adopted by this Council, as evidenced by the Project Engineer's Certificate; and

WHEREAS, the amount of \$1,181,933.33 has been previously paid to Sulzberger Excavating and a balance of \$36,774.37 including 3% retainage remains due and payable;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, that the City of Muscatine make immediate payment of \$213.14 to Sulzberger Excavating for completed and accepted work under the Hershey Avenue Reconstruction Project thereafter make an additional payment of \$36,561.23 which represents the 3% retainage thirty (30) days from the date of this acceptance.

PASSED, APPROVED, ADOPTED THIS 18TH DAY OF APRIL, 2013.

CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

BY: _____
DeWayne M. Hopkins, Mayor

ATTEST:

Gregg Mandsager, City Administrator

Date of this Estimate: April 15, 2013

Final Pay Estimate

ITEM NO.	ITEMS DESCRIPTION	Unit of Measure	RATES	Contract / CO Quantities	Confirmed Final Quantities	Over/Under Contract Amount	Total Completed	Total Paid To Date	Payment Due	Part.	Non-Part.
10	CLEARING AND GRUBBING	ACRE	\$ 5,390.00	0.95	0.95	\$ -	5,120.50	4,966.89	\$ 153.62	X	
20	EXCAVATION	CY	\$ 6.10	12,900.00	12,900.00	\$ -	78,690.00	76,329.30	\$ 2,360.70	X	
30	TOPSOIL STRIP, SALVAGE AND SPREAD	CY	\$ 4.00	4,216.00	4,216.00	\$ -	16,864.00	16,144.94	\$ 719.06	X	
40	GRANULAR SUBBASE	SY	\$ 6.15	7,858.00	2473.13	\$ (33,116.95)	15,209.75	14,753.46	\$ 456.29	X	
50	MODIFIED SUBBASE	CY	\$ 18.10	160.00	0	\$ (2,896.00)	0		\$ -	X	
60	SHOULDER FINISHING, EARTH	STA	\$ 80.00	87.80	87.80	\$ -	7,024.00	6,813.28	\$ 210.72	X	
70	RELOCATION OF MAILBOXES	EACH	\$ 130.00	4.00	5.00	\$ 130.00	650.00	630.50	\$ 19.50	X	
80	8" PCC	SY	\$ 57.75	236.00	287.60	\$ 2,979.90	15,315.30	14,855.84	\$ 459.46	X	
80	8" PCC	SY	\$ 53.00		2825.60	\$ 149,756.80	149,756.80	145,264.10	\$ 4,492.70	X	
90	PCC PAVEMENT SAMPLES	LS	\$ 500.00	1.00	0	\$ (500.00)	0		\$ -	X	
100	HMA, WEDGE	TON	\$ 45.00	811.00	49.02	\$ (34,289.10)	2,205.90	2,139.72	\$ 66.18	X	
110	HMA BASE COURSE	TON	\$ 48.85	542.00	186.57	\$ (17,362.78)	9,113.94	8,840.53	\$ 273.42	X	
120	HMA SURFACE COURSE	TON	\$ 45.00	1,684.00	1471.05	\$ (9,582.75)	66,197.25	64,211.33	\$ 1,985.92	X	
130	ASPHALT BINDER	TON	\$ 517.00	183.00	75.06	\$ (55,804.98)	38,806.02	37,641.84	\$ 1,164.18	X	
140	HMA SAMPLES	LS	\$ 2,625.00	1.00	1.00	\$ -	2,625.00	2,546.25	\$ 78.75	X	
150	REMOVALS, AS PER PLAN	LS	\$ 5,250.00	1.00	1.00	\$ -	5,250.00	5,092.50	\$ 157.50	X	
160	EXCAVATION FOR ROADWAY CULVERT	CY	\$ 100.00	2.00	2.00	\$ -	200.00	194.00	\$ 6.00	X	
170	APRONS, CONCRETE, 24 IN	EACH	\$ 1,050.00	1.00	1.00	\$ -	1,050.00	1,018.50	\$ 31.50	X	
180	MODULAR BLOCK RETAINING WALL	SF	\$ 21.85	2,408.00	3118.00	\$ 15,513.50	66,128.30	66,084.45	\$ 2,043.85	X	
190	MANHOLE, SANITARY SEWER, SW-301, 60 IN.	EACH	\$ 2,675.00	9.00	5.00	\$ (10,700.00)	13,375.00	12,973.75	\$ 401.25	X	
200	INTAKE, SW-507	EACH	\$ 2,750.00	11.00	12.00	\$ 2,750.00	33,000.00	32,010.00	\$ 990.00	X	
210	INTAKE, SW-545	EACH	\$ 6,300.00	1.00	1.00	\$ -	6,300.00	6,111.00	\$ 189.00	X	
220	CASTING EXTENSION RINGS	EACH	\$ 75.00	29.00	15.00	\$ (1,050.00)	1,125.00	1,091.25	\$ 33.75	X	
230	CONNECTION TO EXISTING MANHOLE	EACH	\$ 500.00	1.00	2.00	\$ 500.00	1,000.00	970.00	\$ 30.00	X	
240	SUBDRAIN, LONGITUDINAL (SHOULDER) 4 IN. DIA.	LF	\$ 5.75	3,681.00	3681.00	\$ -	21,165.75	20,530.78	\$ 634.97	X	
250	SUBDRAIN, STANDARD, PERFORATED, 4 IN., AS PER PLAN	LF	\$ 1.00	801.00	725.00	\$ (76.00)	725.00	703.25	\$ 21.75	X	
260	SUBDRAIN, PVC, STANDARD, NON-PERFORATED	LF	\$ 19.50	232.00	374.00	\$ 2,769.00	7,293.00	7,074.21	\$ 218.79	X	
270	SUBDRAIN OUTLET, RF-19C	EACH	\$ 75.00	6.00	17.00	\$ 825.00	1,275.00	1,236.75	\$ 38.25	X	
280	SUBDRAIN OUTLET, RF-18E	EACH	\$ 150.00	2.00	4.00	\$ 300.00	600.00	582.00	\$ 18.00	X	
290	STORM SEWER GRAVITY MAIN, TRENCHED, 12 IN.	LF	\$ 60.31	200.00	355.00	\$ 9,348.05	21,410.05	20,767.75	\$ 642.30	X	
300	STORM SEWER GRAVITY MAIN, TRENCHED, 15 IN.	LF	\$ 60.53	66.00	96.00	\$ 1,815.90	5,810.88	5,636.55	\$ 174.33	X	
310	STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN.	LF	\$ 73.10	54.00	54.00	\$ -	3,947.40	3,828.98	\$ 118.42	X	
320	STORM SEWER GRAVITY MAIN, TRENCHED, 24 IN.	LF	\$ 68.10	375.00	327.00	\$ (3,268.80)	22,268.70	21,600.64	\$ 668.06	X	
330	STORM SEWER GRAVITY MAIN, TRENCHED, 36 IN.	LF	\$ 73.60	40.00	25.00	\$ (1,104.00)	1,840.00	1,784.80	\$ 55.20	X	
340	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	\$ 9.30	128.00	128.00	\$ -	1,190.40	1,154.69	\$ 35.71	X	
350	SANITARY SEWER SERVICE STUB, POLYVINYL CHLORIDE PIPE (PVC), 4"	LF	\$ 81.00	18.00	18.00	\$ -	1,458.00	1,414.26	\$ 43.74	X	
360	SANITARY SEWER SERVICE STUB WITH RISER, PVC PIPE, 4"	LF	\$ 150.00	4.00	4.00	\$ -	600.00	582.00	\$ 18.00	X	

Date of this Estimate: April 15, 2013

Final Pay Estimate

ITEM NO.	ITEMS DESCRIPTION	Unit of Measure	RATES	Contract / CO Quantities	Confirmed Final Quantities	Over/Under Contract Amount	Total Completed	Total Paid To Date	Payment Due	Part.	Non-Part.
370	FLOWABLE MORTAR	CY	\$ 110.00	5.00	5.00	\$ -	550.00	533.50	\$ 16.50	X	
380	ENGINEERING FABRIC	SY	\$ 1.00	330.00	483.40	\$ 153.40	483.40	468.90	\$ 14.50	X	
390	REVTMENT, CLASS E	TON	\$ 48.00	35.60	30.20	\$ (259.20)	1,449.60	1,406.11	\$ 43.49	X	
400	REMOVAL OF PAVEMENT	SY	\$ 4.50	1,048.00	3032.80	\$ 8,931.60	13,647.60	13,238.17	\$ 409.43	X	
410	REMOVAL OF SIDEWALK	SY	\$ 4.00	520.00	613.70	\$ 374.80	2,454.80	2,381.16	\$ 73.64	X	
420	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	\$ 31.00	2,269.00	2727.60	\$ 14,216.60	84,555.60	82,018.93	\$ 2,536.67	X	
430	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	\$ 73.50	62.00	43.70	\$ (1,345.05)	3,211.95	3,115.59	\$ 96.36	X	
440	DETECTABLE WARNINGS FOR CURB RAMPS	SF	\$ 22.00	88.00	104.00	\$ 352.00	2,288.00	2,219.36	\$ 68.64	X	
450	CURB AND GUTTER, P.C. CONCRETE 2.5 FT.	LF	\$ 14.70	7,447.00	5694.33	\$ (25,764.25)	83,706.65	81,195.45	\$ 2,511.20	X	
460	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	\$ 50.00	606.00	734.50	\$ 6,425.00	36,725.00	35,623.25	\$ 1,101.75	X	
470	REMOVAL OF PAVED DRIVEWAY	SY	\$ 5.00	525.00	525.00	\$ -	2,625.00	2,546.25	\$ 78.75	X	
480	SAFETY CLOSURE	EACH	\$ 158.00	9.00	9.00	\$ -	1,422.00	1,379.34	\$ 42.66	X	
490	REMOVAL AND REINSTALLATION OF FENCE	LF	\$ 25.00	1,681.00	1681.00	\$ -	42,025.00	40,764.25	\$ 1,260.75	X	
500	REMOVE AND REINSTALL SIGNS AS PER PLAN	EACH	\$ 79.00	35.00	23.00	\$ (948.00)	1,817.00	1,762.49	\$ 54.51	X	
510	POSTS, STEEL, AS PER PLAN	EACH	\$ 105.00	10.00	10.00	\$ -	1,050.00	1,018.50	\$ 31.50	X	
520	TYPE A SIGNS, SHEET ALUMINUM	SF	\$ 23.00	40.00	40.00	\$ -	920.00	892.40	\$ 27.60	X	
530	CONSTRUCTION SURVEY	LS	\$ 9,345.00	1.00	1.00	\$ -	9,345.00	9,064.65	\$ 280.35	X	
540	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	\$ 45.00	47.20	47.20	\$ -	2,124.00	2,060.28	\$ 63.72	X	
550	TRAFFIC CONTROL	LS	\$ 7,350.00	1.00	1.00	\$ -	7,350.00	7,129.50	\$ 220.50	X	
560	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	\$ 80.00	962.00	1087.69	\$ 10,055.20	87,015.20	84,404.74	\$ 2,610.46	X	
570	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	\$ 150.00	168.00	144.00	\$ (3,600.00)	21,600.00	20,952.00	\$ 648.00	X	
580	PAVEMENT MILLING REPAIR (MILLING LIMESTONE)	SY	\$ 8.80	2,337.00	4580.92	\$ 19,746.50	40,312.10	39,102.73	\$ 1,209.36	X	
590	MOBILIZATION	LS	\$ 16,250.00	1.00	1.00	\$ -	16,250.00	15,762.50	\$ 487.50	X	
600	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	\$ 12.00	670.00	809.62	\$ 1,675.44	9,715.44	9,423.98	\$ 291.46	X	
610	SODDING	SQ	\$ 46.00	158.00	179.02	\$ 966.92	8,234.92	7,987.87	\$ 247.05	X	
620	STABILIZING CROP - SEEDING AND FERTILIZING (URBANO)	ACRE	\$ 525.00	3.30	3.20	\$ (52.50)	1,680.00	1,629.60	\$ 50.40	X	
630	SILT FENCE	LF	\$ 1.70	4,890.00	2995.00	\$ (3,221.50)	5,091.50	4,938.76	\$ 152.75	X	
640	REMOVAL OF SILT FENCE	LF	\$ 0.16	4,890.00	2995.00	\$ (303.20)	479.20	464.82	\$ 14.38	X	
650	CLEAN-OUT OF SILT FENCE	LF	\$ 0.10	4,890.00	0	\$ (489.00)	0		\$ -	X	
660	FLOWERS, AS PER PLAN	LS	\$ 3,650.00	1.00	0	\$ (3,650.00)	0		\$ -	X	
670	SHRUBS, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH	\$ 28.00	75.00	0	\$ (2,100.00)	0		\$ -	X	
680	TREES, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH	\$ 168.00	5.00	0	\$ (840.00)	0		\$ -	X	
8001	APRON, 15"	EACH	\$ 750.00	1.00	1.00	\$ -	750.00	727.50	\$ 22.50	X	
8002	APRON, 36"	EACH	\$ 1,250.00	1.00	1.00	\$ -	1,250.00	1,212.50	\$ 37.50	X	
8003	MH SW-401, 48"	EACH	\$ 3,000.00	1.00	1.00	\$ -	3,000.00	2,910.00	\$ 90.00	X	
8004	7" PCC	SY	\$ 43.00	825.60	840.00	\$ 619.20	36,120.00	35,036.40	\$ 1,083.60	X	
8005	SPECIAL BACKFILL	CY	\$ 15.50	855.00	2693.00	\$ 28,489.00	41,741.50	40,489.26	\$ 1,252.25	X	

Hershey Avenue Reconstruction Project - Muscatine, Iowa

Contract ID: STP-U-5330(618)-70-70

Contract No. 70-5330-618

Type of Work: HMA Pavement Widening / HMA Resurfacing

Payable to: Sulzberger Excavating Company, Muscatine, Iowa

Date of this Estimate: April 15, 2013

Final Pay Estimate

ITEM NO.	ITEMS DESCRIPTION	Unit of Measure	RATES	Contract / CO Quantities	Confirmed Final Quantities	Over/Under Contract Amount	Total Completed	Total Paid To Date	Payment Due	Part.	Non-Part.
8006	EROSION CONTROL MOBILIZATION	EACH	\$ 500.00	-	5.00	\$ 2,500.00	2,500.00	2,425.00	\$ 75.00	X	
8007	STEPS	LS	\$ 11,482.90	-	1.00	\$ 11,482.90	11,482.90	11,138.41	\$ 344.49	X	
8008	FENCING MATERIALS	EACH	\$ 1,082.40	-	1.00	\$ 1,082.40	1,082.40	1,049.93	\$ 32.47		X
8009	FENCE REINSTALLATION, EXTRA WORK	LS	\$ 6,061.00	-	1.00	\$ 6,061.00	6,061.00	5,879.17	\$ 181.83	X	
							1,218,707.70	1,181,933.33	\$ 36,774.37		

Total Completed\$ 1,218,707.70

Total Paid to Date\$ 1,181,933.33

Payment Due\$ 36,774.37

Retainage @ 3%\$ 36,561.23

Final Payment\$ 213.14

Contractor: _____

Date: _____

City Engineer: _____

Date: _____