



CDBG-DR 13 CHANGE ORDER OR WORK ORDER AMENDMENT







Project Information					
Project Name	Little River Sewer Interceptor Rehabilitation/Replacement				
Work Order Number (CDBG-DR 01)	I-03-W-LMA	Project Address	East of Little River Park from SW 4 th St to just south of SW 19 th St., next to Hibdon Tires		
Date	10/20/2017	Requested By	City of Moore		
Date Requested	10/20/2017	Total Budget	1,533,571.75	Cost of Change	83,202.50

Change Order Type - Description			
Circle Type:	Field	Change	Work Order Amendment
Budget Line Items Affected: (List All)			
Change in Quantities:			
Base Bid:			
Pipe Bursting 20' (HDPE)(SDR19) - Unit Price \$100/LF, Quantity decreased by 148, New Total Quantity 0			
Sanitary Sewer Manhole Rehab (5' Diameter) – Unit Price \$160/VF, Quantity decreased by 12, New Total Quantity 16			
Add Alt #1:			
Construct 5' Diameter Manhole – Unit Price \$2,500/each, Quantity increased by 1, New Total Quantity 6			
Extra Depth 5' Diameter Manhole – Unit Price \$350/VF, Quantity increased 5.18, New Total Quantity 38.18			
Add Alt #2:			
Pipe Bursting 26" Pipe (HDPE)(SDR19) – Unit Price \$180/LF, Quantity decreased by 316, New Total Quantity 2,058			
Construct 5' Diameter Manhole – Unit Price \$2,500/each, Quantity increased by 8, New Total Quantity 16			
Extra Depth 5' Diameter Manhole – Unit Price \$350/VF, Quantity increased 31.57, New Total Quantity 77.27			
Added Items:			
Add Alt #2:			
24" PVC Pipe – Unit Price \$45/LF, Quantity 87			

Steel Encasement Pipe – Unit Price \$125/LF, Quantity 250
 Trench Excavation – Unit Price \$10/LF, Quantity 147
 Standard Bedding Material – Unit Price \$30/CY, Quantity 100
 Abandon Sewer – Unit Price \$125/CY, Quantity 37
 Abandon Manhole – Unit Price \$250/Each, Quantity 1
 30" Bore – Unit Price \$175/LF, Quantity 250
 26" HDPE – Unit Price \$105/LF, Quantity 316

Change Description	Waterlines potholed in Telephone Road and 19 th Street were determined to be too close to the sanitary sewer and would likely experience damage if the pipe bursting was utilized. The sanitary sewer interceptor was then designed to be relocated outside the extents of the intersection.
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Field Change Order			
Field Change Order Authorization ONLY Vendor Signature		Date	
Field Change Order Authorization ONLY Project Manager Signature		Date	
Change Order			
Change Order Authorization ONLY Vendor Signature		Date	
Change Order Authorization ONLY Project Manager Signature		Date	
Change Order Authorization ONLY Project Supervisor Signature		Date	
Contract Amendment			
Work Order Amendment Authorization ONLY Vendor Signature		Date	10/20/2017
Work Order Amendment Authorization ONLY Project Manager Signature		Date	10/20/2017
Work Order Amendment Authorization ONLY Project Supervisor Signature		Date	10/20/2017
Contract Amendment Authorization ONLY CDBG Manager		Date	10/20/2017

Project Name: LITTLE RIVER PARK

CO ITEMS ALLOCATION

LAST UPDATE: 10/20/17

ITEM DESCRIPTION	ORIGINAL BID QTY TOTAL BASE, ALT 1, ALT 2	BASE BID	ALT #1	ALT #2	AMENDMENT 1	CO #1	AMENDMENT 2	CO #2	NEW TOTAL QUANTITY
AMMENDED ORIGINAL BID ITEMS									
PIPE BURSTING 20" DIA PIPE HDPE SDR 19	148 LF	-148 LF					-148 LF		0 LF
8" PVC PIPE	516 LF		417 LF		417 LF				933 LF
24" PVC PIPE	2018 LF		772 LF	87 LF	772 LF		87 LF		2877 LF
STEEL ENCASEMENT PIPE	70 LF	250 LF		250 LF			250 LF		320 LF
TRENCH EXCAVATION	2534 LF	482 LF	417 LF	147 LF	899 LF		147 LF		3580 LF
STANDARD BEDDING MATERIAL	1460 CY	740 CY		100 CY	740 CY		100 CY		2300 CY
CONSTRUCT 5' DIA MH	19 EA		1 EA	8 EA	1 EA		9 EA		29 EA
EXTRA DEPTH 5' DIA MH	140 VF		5.18 VF	31.57 VF	5.70 VF		36.75 VF		182.48 VF
MANHOLE FRAM & LID	19 EA	3 EA	4 EA	1 EA	8 EA				34 EA
SANITARY SEWER MH REHAB 5' DIA	154 VF	-12 VF	-46.0 VF	-47.45 VF	-93.45 VF		-12 VF		48.55 VF
SEWER SERVICE CONNECTIONS	3 EA		10 EA		10 EA				13 EA
SEWER SERVICE LINES	100 LF		200 LF		200 LF				300 LF
ABANDON SEWER	20 CY	91 CY		37 CY	91 CY		37 CY		148 CY
ABANDON MANHOLE	5 EA			1 EA			1 EA		6 EA
CONSTRUCT 4' DIA MH	2 EA		2 EA		2 EA				4 EA
EXTRA DEPTH 4' DIA MH	6 VF		4 VF		4 VF				10 VF
PIPE BURSTING 26" DIA PIPE	4163 LF		-650 LF	-316 LF	-650 LF		-316 LF		3197 LF
REMOVE & REPLACE SIDEWALK/TRAIL	519 SY		-70 SY		-70 SY				449 SY
NEW ITEMS ADDED BY CHANGE ORDER									
PERM CONC PAVEMENT REM& REPL		36 SY	42 SY			78 SY			78 SY
8' DIA MH		3 EA	2 EA			5 EA			5 EA
8' EXTRA DEPTH MH		15.97 VF	12.53 VF			28.5 VF			28.5 VF
CONSTRUCTION STAKING		1 LS				1 LS			1 LS
30" DIA BORE		290 LF		250 LF		290 LF		250 LF	540 LF
REMOVE & RESET EXISTING FENCE			300 LF			300 LF			300 LF
EXTRA CONC WORK ON APRON SOUTH OF BRIDGE		1 LS				1 LS			1 LS
30" DIA STEEL ENCASEMENT PIPE		290 LF				290 LF			290 LF
26" HDPE				316 LF				316 LF	316 LF

	A	B	C	D	E	F	G	H	I
1	Original Contract				Changes as of 10/20/2017				
2				(C*D)		(F-C)	(F*D)	(H-E)	
3	Item Description	Unit	Estimated Quantity	Unit Price	Estimated Cost	Quantity Used to date	Difference in Quantity	Total Cost for Project	Difference in Cost
4	Base Bid								
5	Pipe Bursting 20' (HDPE)(SDR19)	LF	148.00	100.00	14,800.00	0.00	-148.00	0.00	-14,800.00
6	8" PVC Pipe	LF	516.00	35.00	18,060.00	516.00	0.00	18,060.00	0.00
7	24' PVC Pipe	LF	2,018.00	45.00	90,810.00	2,018.00	0.00	90,810.00	0.00
8	Steel Encasement Pipe	LF	70.00	125.00	8,750.00	70.00	0.00	8,750.00	0.00
9	Trench Excavation	LF	2,534.00	10.00	25,340.00	3,016.00	482.00	30,160.00	4,820.00
10	Standard Bedding Material	CY	1,460.00	30.00	43,800.00	2,200.00	740.00	66,000.00	22,200.00
11	Construct 5' Diameter Manhole	Each	7.00	2,500.00	17,500.00	7.00	0.00	17,500.00	0.00
12	Extra Depth 5' Diameter Manhole	VF	67.00	350.00	23,450.00	67.00	0.00	23,450.00	0.00
13	Manhole Frame and Lid	Each	9.00	325.00	2,925.00	12.00	3.00	3,900.00	975.00
14	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	28.00	160.00	4,480.00	16.00	-12.00	2,560.00	-1,920.00
15	Remove & Replace Sidewalk/Trail	SY	197.00	60.00	11,820.00	197.00	0.00	11,820.00	0.00
16	Sawing Pavement	LF	92.00	4.00	368.00	92.00	0.00	368.00	0.00
17	Construction Signing & Traffic Control	LS	1.00	1,500.00	1,500.00	1.00	0.00	1,500.00	0.00
18	Mobilization/Demobilization	LS	1.00	1,200.00	1,200.00	1.00	0.00	1,200.00	0.00
19	Solid Slab Sodding	SY	4,367.00	4.00	17,468.00	4,367.00	0.00	17,468.00	0.00
20	Rip Rap	SY	158.00	75.00	11,850.00	158.00	0.00	11,850.00	0.00
21	Class A Concrete	CY	98.00	560.00	54,880.00	98.00	0.00	54,880.00	0.00
22	Reinforcing Steel	LBS	853.00	1.75	1,492.75	853.00	0.00	1,492.75	0.00
23	Sewer Service Connections	Each	3.00	500.00	1,500.00	3.00	0.00	1,500.00	0.00
24	Sewer Service Line	LF	100.00	20.00	2,000.00	100.00	0.00	2,000.00	0.00
25	Silt Fence	LF	2,375.00	4.00	9,500.00	2,375.00	0.00	9,500.00	0.00
26	Abandon Sewer	CY	20.00	125.00	2,500.00	111.00	91.00	13,875.00	11,375.00
27	Abandon Manhole	Each	5.00	250.00	1,250.00	5.00	0.00	1,250.00	0.00
28	Deflection Test	LS	1.00	1,500.00	1,500.00	1.00	0.00	1,500.00	0.00
29	Sewer Flow Control	LS	1.00	8,500.00	8,500.00	1.00	0.00	8,500.00	0.00
30	Leakage Test	LS	1.00	1,500.00	1,500.00	1.00	0.00	1,500.00	0.00
31	Pre Construction Television Inspection & Cleaning	LF	148.00	4.00	592.00	148.00	0.00	592.00	0.00
32	Post Construction Television Inspection	LF	148.00	2.00	296.00	148.00	0.00	296.00	0.00
33	Construction 4' Diameter Manhole	Each	2.00	1,500.00	3,000.00	2.00	0.00	3,000.00	0.00
34	Extra Depth 4' Diameter Manhole	VF	6.00	175.00	1,050.00	6.00	0.00	1,050.00	0.00
35	Dewatering	LS	1.00	3,000.00	3,000.00	1.00	0.00	3,000.00	0.00
36	GPS As-Built Survey	LS	1.00	3,000.00	3,000.00	1.00	0.00	3,000.00	0.00
37	Base Bid Total				389,681.75				

	A	B	C	D	E	F	G	H	I
77	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	2,374.00	180.00	427,320.00	2,058.00	4,432.00	370,440.00	-56,880.00
78	Construct 5' Diameter Manhole	Each	7.00	2,500.00	17,500.00	16.00	23.00	40,000.00	22,500.00
79	Extra Depth 5' Diameter Manhole	VF	40.00	350.00	14,000.00	77.27	117.27	27,044.50	13,044.50
80	Manhole Frame and Lid	Each	7.00	325.00	2,275.00	8.00	15.00	2,600.00	325.00
81	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	71.00	160.00	11,360.00	23.55	94.55	3,768.00	-7,592.00
82	Point Repair	LF	100.00	130.00	13,000.00	100.00	200.00	13,000.00	0.00
83	8" Concrete Driveway (HES)	SY	80.00	95.00	7,600.00	80.00	160.00	7,600.00	0.00
84	Remove & Replace Sidewalk/Trail	SY	239.00	60.00	14,340.00	239.00	478.00	14,340.00	0.00
85	Sawing Pavement	LF	200.00	4.00	800.00	200.00	400.00	800.00	0.00
86	Construction Signing & Traffic Control	LS	1.00	10,000.00	10,000.00	1.00	2.00	10,000.00	0.00
87	Mobilization/Demobilization	LS	1.00	1,500.00	1,500.00	1.00	2.00	1,500.00	0.00
88	Sewer Flow Control	LS	1.00	20,000.00	20,000.00	1.00	2.00	20,000.00	0.00
89	Leakage Test	LS	1.00	1,500.00	1,500.00	1.00	2.00	1,500.00	0.00
90	Pre Construction Television Inspection & Cleaning	LF	2,374.00	4.00	9,496.00	2,374.00	4,748.00	9,496.00	0.00
91	Post Construction Television Inspection	LF	2,374.00	2.00	4,748.00	2,374.00	4,748.00	4,748.00	0.00
92	Add Alt #2 Total				555,439.00				
93	Added Items for Add Alt #2								
94	24" PVC Pipe	LF	0.00	45.00	0.00	87.00	87.00	3,915.00	3,915.00
95	Steel Encasement Pipe	LF	0.00	125.00	0.00	250.00	250.00	31,250.00	31,250.00
96	Trench Excavation	LF	0.00	10.00	0.00	147.00	147.00	1,470.00	1,470.00
97	Standard Bedding Material	CY	0.00	30.00	0.00	100.00	100.00	3,000.00	3,000.00
98	Abandon Sewer	CY	0.00	125.00	0.00	37.00	37.00	4,625.00	4,625.00
99	Abandon Manhole	Each	0.00	250.00	0.00	1.00	1.00	250.00	250.00
100	30" Bore	LF	0.00	175.00	0.00	250.00	250.00	43,750.00	43,750.00
101	26" HDPE	LF	0.00	105.00	0.00	316.00	316.00	33,180.00	33,180.00
102									
103	Project Total				1,271,018.75		New Project Total	1,533,571.75	

	A	B	C	D	E	F	G	H
1	History of Changes Occurring							
2								
3					(C*D)	CHANGE ORDER 01	CHANGE ORDER 02	(C+F)
4	Item Description	Unit	Estimated Quantity	Unit Price	Estimated Cost	Quantity Changed by	Quantity Changed by	TOTAL QUANTITY TO DATE
5	Base Bid							
6	Pipe Bursting 20' (HDPE)(SDR19)	LF	148.00	100.00	14,800.00		-148.00	0.00
7	8" PVC Pipe	LF	516.00	35.00	18,060.00			516.00
8	24' PVC Pipe	LF	2,018.00	45.00	90,810.00			2,018.00
9	Steel Encasement Pipe	LF	70.00	125.00	8,750.00			70.00
10	Trench Excavation	LF	2,534.00	10.00	25,340.00	482.00		3,016.00
11	Standard Bedding Material	CY	1,460.00	30.00	43,800.00	740.00		2,200.00
12	Construct 5' Diameter Manhole	Each	7.00	2,500.00	17,500.00			7.00
13	Extra Depth 5' Diameter Manhole	VF	67.00	350.00	23,450.00			67.00
14	Manhole Frame and Lid	Each	9.00	325.00	2,925.00	3.00		12.00
15	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	28.00	160.00	4,480.00		-12.00	16.00
16	Remove & Replace Sidewalk/Trail	SY	197.00	60.00	11,820.00			197.00
17	Sawing Pavement	LF	92.00	4.00	368.00			92.00
18	Construction Signing & Traffic Control	LS	1.00	1,500.00	1,500.00			1.00
19	Mobilization/Demobilization	LS	1.00	1,200.00	1,200.00			1.00
20	Solid Slab Sodding	SY	4,367.00	4.00	17,468.00			4,367.00
21	Rip Rap	SY	158.00	75.00	11,850.00			158.00
22	Class A Concrete	CY	98.00	560.00	54,880.00			98.00
23	Reinforcing Steel	LBS	853.00	1.75	1,492.75			853.00
24	Sewer Service Connections	Each	3.00	500.00	1,500.00			3.00
25	Sewer Service Line	LF	100.00	20.00	2,000.00			100.00
26	Silt Fence	LF	2,375.00	4.00	9,500.00			2,375.00
27	Abandon Sewer	CY	20.00	125.00	2,500.00	91.00		111.00
28	Abandon Manhole	Each	5.00	250.00	1,250.00			5.00
29	Deflection Test	LS	1.00	1,500.00	1,500.00			1.00

	A	B	C	D	E	F	G	H
30	Sewer Flow Control	LS	1.00	8,500.00	8,500.00			1.00
31	Leakage Test	LS	1.00	1,500.00	1,500.00			1.00
32	Pre Construction Television Inspection & Cleaning	LF	148.00	4.00	592.00			148.00
33	Post Construction Television Inspection	LF	148.00	2.00	296.00			148.00
34	Construction 4' Diameter Manhole	Each	2.00	1,500.00	3,000.00			2.00
35	Extra Depth 4' Diameter Manhole	VF	6.00	175.00	1,050.00			6.00
36	Dewatering	LS	1.00	3,000.00	3,000.00			1.00
37	GPS As-Built Survey	LS	1.00	3,000.00	3,000.00			1.00
38	Base Bid Total				389,681.75			
39	Added Items for Base Bid							
40	Perm. Concrete Pavement Remove & Replace	SY	0.00	240.00	0.00	36.00		36.00
41	8' Diameter Manhole (0-6')	Each	0.00	5,620.00	0.00	3.00		3.00
42	8' Extra Depth	VF	0.00	675.00	0.00	15.97		15.97
43	Construction Staking	LS	0.00	1,500.00	0.00	1.00		1.00
44	30" Bore	LF	0.00	175.00	0.00	290.00		290.00
45	Extra Concrete Work on Apron South of Bridge	LS	0.00	15,500.00	0.00	1.00		1.00
46	30" Steel Encasement Pipe	LF	0.00	125.00	0.00	290.00		290.00
47								
48	Add Alt #1							
49	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	1,789.00	135.00	241,515.00	-650.00		1,139.00
50	Construct 5' Diameter Manhole	Each	5.00	2,500.00	12,500.00		1.00	6.00
51	Extra Depth 5' Diameter Manhole	VF	33.00	350.00	11,550.00		5.18	38.18
52	Manhole Frame and Lid	Each	5.00	325.00	1,625.00	4.00		9.00
53	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	55.00	160.00	8,800.00	-46.00		9.00
54	Point Repair	LF	100.00	150.00	15,000.00			100.00
55	Remove & Replace Sidewalk/Trail	SY	83.00	60.00	4,980.00	-70.00		13.00
56	Sawing Pavement	LF	16.00	4.00	64.00			16.00
57	Construction Signing & Traffic Control	LS	1.00	2,000.00	2,000.00			1.00
58	Mobilization/Demobilization	LS	1.00	1,500.00	1,500.00			1.00
59	Solid Slab Sodding	LS	1.00	1,500.00	1,500.00			1.00
60	Silt Fence	LF	70.00	4.00	280.00			70.00
61	Sewer Flow Control	LS	1.00	12,350.00	12,350.00			1.00
62	Leakage Test	LS	1.00	1,500.00	1,500.00			1.00

	A	B	C	D	E	F	G	H
63	Pre Construction Television Inspection & Cleaning	LF	1,789.00	4.00	7,156.00			1,789.00
64	Post Construction Television Inspection	LF	1,789.00	2.00	3,578.00			1,789.00
65	Add Alt #1 Total				325,898.00			
66	Added Items for Add Alt #1							
67	8" PVC Pipe	LF	0.00	35.00	0.00	417.00		417.00
68	24" PVC Pipe	LF	0.00	45.00	0.00	772.00		772.00
69	Trench Excavation	LF	0.00	10.00	0.00	417.00		417.00
70	Sewer Service Connections	Each	0.00	500.00	0.00	10.00		10.00
71	Sewer Service Line	LF	0.00	20.00	0.00	200.00		200.00
72	Construction 4' Diameter Manhole	Each	0.00	1,500.00	0.00	2.00		2.00
73	Extra Depth 4' Diameter Manhole	VF	0.00	175.00	0.00	4.00		4.00
74	Perm. Concrete Pavement Remove & Replace	SY	0.00	240.00	0.00	42.00		42.00
75	8' Diameter Manhole (0-6')	Each	0.00	5,620.00	0.00	2.00		2.00
76	8' Extra Depth	VF	0.00	675.00	0.00	12.53		12.53
77	Remove and Reset Existing Fence	LS	0.00	15.00	0.00	300.00		300.00
78								
79	Add Alt #2							
80	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	2,374.00	180.00	427,320.00		-316.00	2,058.00
81	Construct 5' Diameter Manhole	Each	7.00	2,500.00	17,500.00	1.00	8.00	16.00
82	Extra Depth 5' Diameter Manhole	VF	40.00	350.00	14,000.00	5.70	31.57	77.27
83	Manhole Frame and Lid	Each	7.00	325.00	2,275.00	1.00		8.00
84	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	71.00	160.00	11,360.00	-47.45		23.55
85	Point Repair	LF	100.00	130.00	13,000.00			100.00
86	8" Concrete Driveway (HES)	SY	80.00	95.00	7,600.00			80.00
87	Remove & Replace Sidewalk/Trail	SY	239.00	60.00	14,340.00			239.00
88	Sawing Pavement	LF	200.00	4.00	800.00			200.00
89	Construction Signing & Traffic Control	LS	1.00	10,000.00	10,000.00			1.00
90	Mobilization/Demobilization	LS	1.00	1,500.00	1,500.00			1.00
91	Sewer Flow Control	LS	1.00	20,000.00	20,000.00			1.00
92	Leakage Test	LS	1.00	1,500.00	1,500.00			1.00
93	Pre Construction Television Inspection & Cleaning	LF	2,374.00	4.00	9,496.00			2,374.00
94	Post Construction Television Inspection	LF	2,374.00	2.00	4,748.00			2,374.00
95	Add Alt #2				555,439.00			

	A	B	C	D	E	F	G	H
96	Added Items for Add Alt #2							
97	24" PVC Pipe	LF	0.00	45.00	0.00		87.00	87.00
98	Steel Encasement Pipe	LF	0.00	125.00	0.00		250.00	250.00
99	Trench Excavation	LF	0.00	10.00	0.00		147.00	147.00
100	Standard Bedding Material	CY	0.00	30.00	0.00		100.00	100.00
101	Abandon Sewer	CY	0.00	125.00	0.00		37.00	37.00
102	Abandon Manhole	Each	0.00	250.00	0.00		1.00	1.00
103	30" Bore	LF	0.00	175.00	0.00		250.00	250.00
104	26" HDPE	LF	0.00	105.00	0.00		316.00	316.00
105	Project Total				1,271,018.75			
106								
107	Change Order 7/18/2017							
108	Base Bid Changes							
109	Trench Excavation	LF	482.00	10.00	4,820.00			
110	Standard Bedding Material	CY	740.00	30.00	22,200.00			
111	Manhole Frame and Lid	Each	3.00	325.00	975.00			
112	Abandon Sewer	CY	91.00	125.00	11,375.00			
113	Base Bid Added Items							
114	Perm. Concrete Pavement Remove & Replace	SY	36.00	240.00	8,640.00			
115	8' Diameter Manhole (0-6')	Each	3.00	5,620.00	16,860.00			
116	8' Extra Depth	VF	15.97	675.00	10,779.75			
117	Construction Staking	LS	1.00	1,500.00	1,500.00			
118	30" Bore	LF	290.00	175.00	50,750.00			
119	Extra Concrete Work on Apron South of Bridge	LS	1.00	15,500.00	15,500.00			
120	30" Steel Encasement Pipe	LF	290.00	125.00	36,250.00			
121	Add Alt #1 Changes							
122	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	-650.00	135.00	-87,750.00			
123	Manhole Frame and Lid	Each	4.00	325.00	1,300.00			
124	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	-46.00	160.00	-7,360.00			
125	Remove & Replace Sidewalk/Trail	SY	-70.00	60.00	-4,200.00			
126	Add Alt #1 Added Items							
127	8" PVC Pipe	LF	417.00	35.00	14,595.00			
128	24" PVC Pipe	LF	772.00	45.00	34,740.00			

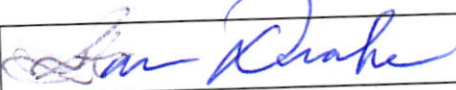
	A	B	C	D	E	F	G	H
129	Trench Excavation	LF	417.00	10.00	4,170.00			
130	Sewer Service Connections	Each	10.00	500.00	5,000.00			
131	Sewer Service Line	LF	200.00	20.00	4,000.00			
132	Construction 4' Diameter Manhole	Each	2.00	1,500.00	3,000.00			
133	Extra Depth 4' Diameter Manhole	VF	4.00	175.00	700.00			
134	Perm. Concrete Pavement Remove & Replace	SY	42.00	240.00	10,080.00			
135	8' Diameter Manhole (0-6')	Each	2.00	5,620.00	11,240.00			
136	8' Extra Depth	VF	12.53	675.00	8,457.75			
137	Remove and Reset Existing Fence	LS	300.00	15.00	4,500.00			
138	Add Alt #2 Changes							
139	Construct 5' Diameter Manhole	Each	1.00	2,500.00	2,500.00			
140	Extra Depth 5' Diameter Manhole	VF	5.70	350.00	1,995.00			
141	Manhole Frame and Lid	Each	1.00	325.00	325.00			
142	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	-47.45	160.00	-7,592.00			
143	Total Change Order				179,350.50			
144								
145								
146	Change Order 10/20/2017							
147	Base Bid Changes							
148	Pipe Bursting 20' (HDPE)(SDR19)	LF	-148.00	100.00	-14,800.00			
149	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	-12.00	160.00	-1,920.00			
150	Add Alt #1 Changes							
151	Construct 5' Diameter Manhole	Each	1.00	2,500.00	2,500.00			
152	Extra Depth 5' Diameter Manhole	VF	5.18	350.00	1,813.00			
153	Add Alt #2 Changes							
154	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	-316.00	180.00	-56,880.00			
155	Construct 5' Diameter Manhole	Each	8.00	2,500.00	20,000.00			
156	Extra Depth 5' Diameter Manhole	VF	31.57	350.00	11,049.50			
157	Add Alt #2 Added Items							
158	24" PVC Pipe	LF	87.00	45.00	3,915.00			
159	Steel Encasement Pipe	LF	250.00	125.00	31,250.00			
160	Trench Excavation	LF	147.00	10.00	1,470.00			
161	Standard Bedding Material	CY	100.00	30.00	3,000.00			

Cost Reasonableness Certification

Project Name	Little River Sewer Interceptor	
Work Order Number	I-03-W-LMA	Date 10/20/2017

Line Item	Contract Amount	Industry Standard	Vendor
Construction of Rehabilitation/Replacement of Sewer Interceptor	\$ 553,062.25	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
Add Alternate #1	\$ 242,461.00	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
Add Alternate #2	\$ 576,048.50	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
30" Bore	\$ 94,500.00	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
30" Steel Encasement Pipe	\$ 67,500.00	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
Total	\$ 1,533,571.75		

Certification: The Project Supervisor (PS) of the City of Moore, Oklahoma certifies that the Cost Reasonableness summary provided above for the stated project is accurate, complete, and in conformance with Office of Management and Budget requirements on the date certified.



Stan Drake, Project Supervisor

10/20/2017

Date





October 20, 2017

Mr. Jared Jakubowski
City of Moore
301 North Broadway
Moore, Oklahoma 73160

RE: Change Order No. 2 – I-03-W-LMA Little River Park Sanitary Sewer Interceptor Rehabilitation/Replacement

Mr. Jakubowski:

As the Engineer of record for the above referenced project, I am submitting justification for the change order items submitted by Matthew's Trenching dated October 20, 2017. The adjustment to the contract is necessary to realign the sanitary sewer and not rehabilitate the interceptor as originally designed.

Prior to the rehabilitation process, waterlines potholed in Telephone Road and 19th Street and were determined to be too close to the sanitary sewer and would likely experience damage if the pipe bursting process was utilized. The sanitary sewer interceptor was then designed to be relocated outside the extents of the intersection. The quantities shown in Change Order/Amendment No. 2 reflect this adjustment.

The prices shown in Change Order No. 2 for original bid items were established by competitive bidding and prices for additional items were established through negotiation.

Should you have any questions or comments, or require additional information, please contact our office.

Sincerely,

A handwritten signature in blue ink that reads 'Michael A. Way'.

Michael Way, P.E.

File: 251

cabbinessengineering.com

333 12th Avenue SE, Suite 200 | Norman, Oklahoma 73071 | office: 405.310.6435 | fax: 405.310.6495