

CDBG-DR 13 CHANGE ORDER OR WORK ORDER AMENDMENT



	Project Information												
Project Name		Little	River Sewer Interc	eptor Rehabilitati	on/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	7/18/17	Requested By	City of Moore										
Date Requested	7/13/2017	Total Budget	1,450,369.25	179,350.50									

Change Order Type - Description									
Circle Type:	Field	Change	Work Order Amendment						

Budget Line Items Affected: (List All)

Change in Quantities:

Base Bid:

Trench Excavation, Unit Price \$10/LF, Quantity increased by 482, New Total Quantity 3,016 Standard Bedding Material, Unit Price \$30/CY, Quantity increased by 740, New Total Quantity 2,200 Abandon Sewer, Unit Price \$125/CY, Quantity increased by 91, New Total Quantity 111 Manhole Frame & Lid, Unit Price \$325/Each, Quantity increased by 3, New Total Quantity 12

Add Alt #1:

Pipe Bursting 26" Pipe (HDPE)(SDR19), Unit Price \$135/LF, Quantity decreased by 650, New Total Quantity 1,139 Manhole Frame & Lid, Unit Price \$325/Each, Quantity increased by 4, New Total Quantity 9 Sanitary Sewer Manhole Rehab (5' Diameter), Unit Price \$160/VF, Quantity decreased by 46, New Total Quantity 9 Remove & Replace Sidewalk/Trail, Unit Price \$60/SY, Quantity decreased by 70, New Total Quantity 13

Add Alt #2:

Construct 5' Diameter Manhole, Unit Price \$2,500/each, Quantity increased by 1, New Total Quantity 8
Extra Depth 5' Diameter Manhole, Unit Price \$350/VF, Quantity increased by 5.70, New Total Quantity 45.70

Manhole Frame & Lid, Unit Price \$325/Each, Quantity increased by 1, New Total Quantity 8 Sanitary Sewer Manhole Rehab (5' Diameter), Unit Price \$160/VF, Quantity decreased by 47.45, New Total Quantity 23.55 Added Items: Base Bid: Perm. Concrete Pavement Remove & Replace, Unit Price \$240/SY, Quantity 36 8' Diameter Manhole, Unit Price \$5,620/each, Quantity 3 8' Extra Depth, Unit Price \$675/VF, Quantity 15.97 Construction Staking, Unit Price: Lump Sum of \$1,500, Quantity 1 30" Bore, Unit Price \$175/LF, Quantity 290 Extra Concrete Work on Apron South of Bridge, Unit Price: Lump sum of \$15,500, Quantity 1 30" Steel Encasement Pipe, Unit Price \$125/LF, Quantity 290 Add Alt #1: 8" PVC Pipe, Unit Price \$35/LF, Quantity 417 24" PVC Pipe, Unit Price \$45/LF, Quantity 772 Trench Excavation, Unit Price \$10/LF, Quantity 417 Sewer Service Connections, \$500/each, Quantity 10 Sewer Service Line, \$20/LF, Quantity 200 Construction of 4' Diameter Manhole, Unit Price \$1,500/each, Quantity 2 Extra Depth 4' Diameter Manhole, Unit Price \$350/VF, Quantity 4 Perm. Concrete Pavement Remove & Replace, Unit Price \$240/SY, Quantity 42 8' Diameter Manhole, Unit Price \$5,620/each, Quantity 2 8' Extra Depth, Unit Price \$675/VF, Quantity 12.53 Remove & Reset Existing Fence, \$15/LF, Quantity 300 The City of Moore decided to bore 290 LF to preserve the existing trees in Little River Park and a steel encasement will be provided to keep the sanitary sewer on grade and give root penetration protection from the surrounding trees. Original plans called for an extension of the existing concrete apron for the reinforced concrete box that passed beneath SW 4th St. During construction it was discovered that only wing walls were originally constructed and there was no existing concrete apron. The proposed concrete apron extension is needed to extend to the existing RCB to protect the proposed piping. **Change Description** The realignment of the existing sanitary sewer interceptor of approximately 650 LF was conducted due to the number of sanitary sewer service lines connected to the interceptor discovered in the preconstruction video. An 8" local collector main was selected to provide continued service to the houses along and near Janeway Cir. This adjustment included a street crossing, adding pavement removal and replacement as well as fence removal and resetting. Additional modifications were made to facilitate construction including: enlarging manholes to account for odd entry angles and meet structural

	Field Change Order								
Field Change Order Authorization ONLY Vendor Signature	Date								
Field Change Order Authorization ONLY	Date								

requirements, and modifying pipe bursting pit locations and thereby changing manholes replacement/rehabilitation selection in those areas.

Change Order Authorization ONLY Vendor Signature	Date
Change Order Authorization ONLY Project Manager Signature	Date
Change Order Authorization ONLY Project Supervisor Signature	Date
Cont	ract Amendment
Work Order Amendment Authorization ONLY Vendor Signature	Date 7/18/2017
Work Order Amendment Authorization ONLY Project Manager Signature	Date 7/18/2017
Work Order Amendment Authorization ONLY Project Supervisor Signature	Date 7/18/2017
Contract Amendment Authorization ONLY CDBG Manager	Date 7/18/2017



July 20, 2017

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

RE: Change Order No. 1 – 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 July 13, 2017. The change order items are necessary in a number of different locations along the alignment and will be discussed separately, below.

A number of trees are located at the north end of Little River Park, and prior to construction it was determined that approximately 290 linear feet should be bored to preserve the existing trees. A steel encasement is provided to keep the sanitary sewer on grade and will also provide root penetration protection from the adjacent trees.

The original plans called for an extension of the existing concrete apron for the reinforced concrete box (RCB) that passed beneath Southwest 4th Street. During construction it was discovered that only wing walls were originally constructed and there was no existing concrete apron beneath the channel debris. The proposed concrete apron extension is needed to extend to the existing RCB to protect the proposed piping.

The realignment of the existing sanitary sewer interceptor of approximately 650 linear feet was conducted due to the number of sanitary sewer service lines connected to the interceptor discovered in the preconstruction video. An eight inch (8") local collector main was selected to provide continued service to the houses along and near Janeway Circle. This adjustment included a street crossing, adding pavement removal and replacement as well as fence removal and resetting.

Additional modifications were made to facilitate construction including: enlarging manholes to account for odd entry angles and meet structural requirements,

Change Order No. 1 - I-03-W-LMA Little River Park Sanitary Sewer Interceptor Rehabilitation/Replacement July 20, 2017
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and modifying pipe bursting entry pit locations and thereby changing manholes replacement/rehabilitation selection in those areas.

The prices shown in Change Order No. 1 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,

Michael Way, P.E.

File: 251

	A	В	С	D	E	F	G	Н	I
1	Sum of Changes as of 18 July 2017		C	riginal Contr	act		Changes as	of 7/18/2017	
2	, and the same of				(C*D)		(F-C)	(F*D)	(H-E)
Ė						Quantity			1. 200
			Estimated	Unit	Estimated	Used to	Difference	Total Cost	Difference
3	Item Description	Unit	Quantity	Price	Cost	date	in Quantity	for Project	in Cost
4	Base Bid								
5	Pipe Bursting 20' (HDPE)(SDR19)	LF	148.00	100.00	14,800.00	148.00	0.00	14,800.00	0.00
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	28.00	0.00	4,480.00	0.00
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		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		0.00	1,500.00	0.00
24	Sewer Service Line	LF	100.00	20.00	2,000.00		0.00	2,000.00	0.00
25	Silt Fence	LF	2,375.00	4.00	9,500.00		0.00	9,500.00	0.00
26	Abandon Sewer	CY	20.00	125.00	2,500.00		91.00	13,875.00	11,375.00
27	Abandon Manhole	Each	5.00	250.00	1,250.00		0.00	1,250.00	0.00
28	Deflection Test	LS	1.00	1,500.00	1,500.00		0.00		0.00
29	Sewer Flow Control	LS	1.00	8,500.00	8,500.00		0.00	8,500.00	0.00
30	Leakage Test	LS	1.00	1,500.00	1,500.00		0.00	1,500.00	0.00
31	Pre Construction Television Inspection & Cleaning	LF	148.00		592.00		0.00	592.00	0.00
32	Post Construction Television Inspection	LF	148.00				0.00	296.00	0.00
33	Construction 4' Diameter Manhole	Each	2.00				0.00	3,000.00	0.00
34	Extra Depth 4' Diameter Manhole	VF	6.00				0.00	1,050.00	0.00
35		LS	1.00				0.00	3,000.00	0.00
36	GPS As-Built Survey	LS	1.00	3,000.00			0.00	3,000.00	0.00
37	Base Bid Total				389,681.75				

	Α	В	С	D	E	F	G	Н	I
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38	Added Items for Base Bid	SY	0.00	240.00	0.00	36.00	36.00	8,640.00	8,640.00
	Perm. Concrete Pavement Remove & Replace 8' Diameter Manhole (0-6')	Each	0.00	5,620.00	0.00	3.00	3.00	16,860.00	16,860.00
		VF	0.00	675.00	0.00	15.97	15.97	10,779.75	10,779.75
$\overline{}$	8' Extra Depth	LS	0.00	1,500.00	0.00	1.00	1.00	1,500.00	1,500.00
_	Construction Staking	LF	0.00	175.00	0.00	290.00	290.00	50,750.00	50,750.00
	30" Bore	LS	0.00	15,500.00	0.00	1.00	1.00	15,500.00	15,500.00
_	Extra Concrete Work on Apron South of Bridge	LF	0.00	125.00	0.00	290.00	290.00	36,250.00	36,250.00
	30" Steel Encasement Pipe	LF	0.00	123.00	0.00	250.00	250.00	30,230.00	30,230.00
46	Add Alt #1	1.5	1 700 00	135.00	241,515.00	1,139.00	-650.00	153,765.00	-87,750.00
	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	1,789.00	2,500.00	12,500.00	5.00	0.00	12,500.00	0.00
48	Construct 5' Diameter Manhole	Each	5.00			33.00	0.00	11,550.00	0.00
49	Extra Depth 5' Diameter Manhole	VF	33.00	350.00	11,550.00		4.00	2,925.00	1,300.00
50	Manhole Frame and Lid	Each	5.00	325.00	1,625.00	9.00		1,440.00	-7,360.00
51	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	55.00	160.00	8,800.00	9.00	-46.00		
52	Point Repair	LF	100.00	150.00	15,000.00	100.00	0.00	15,000.00	0.00
53	Remove & Replace Sidewalk/Trail	SY	83.00	60.00	4,980.00	13.00	-70.00	780.00	-4,200.00
54	Sawing Pavement	LF	16.00	4.00	64.00	16.00	0.00	64.00	0.00
55	Construction Signing & Traffic Control	LS	1.00	2,000.00	2,000.00	1.00	0.00	2,000.00	0.00
56	Mobilization/Demobilization	LS	1.00	1,500.00	1,500.00	1.00	0.00	1,500.00	0.00
57	Solid Slab Sodding	LS	1.00	1,500.00	1,500.00	1.00	0.00	1,500.00	0.00
58	Silt Fence	LF	70.00	4.00	280.00	70.00	0.00		0.00
59	Sewer Flow Control	LS	1.00	12,350.00	12,350.00	1.00	0.00		0.00
60	Leakage Test	LS	1.00	1,500.00	1,500.00	1.00	0.00		0.00
61	Pre Construction Television Inspection & Cleaning	LF	1,789.00	4.00	7,156.00	1,789.00	0.00	7,156.00	0.00
62	Post Construction Television Inspection	LF	1,789.00	2.00	3,578.00	1,789.00	0.00	3,578.00	0.00
63	Add Alt #1 Total				325,898.00				
64	Added Items for Add Alt #1								
65	8" PVC Pipe	LF	0.00	35.00	0.00	417.00	417.00		14,595.00
66	24" PVC Pipe	LF	0.00	45.00	0.00	772.00	772.00		34,740.00
67	Trench Excavation	LF	0.00	10.00	0.00	417.00	417.00		4,170.00
68	Sewer Service Connections	Each	0.00	500.00	0.00	10.00	10.00	5,000.00	5,000.00
69	Sewer Service Line	LF	0.00	20.00	0.00	200.00	200.00	4,000.00	4,000.00
70	Construction 4' Diameter Manhole	Each	0.00	1,500.00	0.00	2.00	2.00		3,000.00
71	Extra Depth 4' Diameter Manhole	VF	0.00	175.00	0.00	4.00	4.00	700.00	700.00
72	Perm. Concrete Pavement Remove & Replace	SY	0.00	240.00	0.00	42.00	42.00	10,080.00	10,080.00
73	8' Diameter Manhole (0-6')	Each	0.00	5,620.00	0.00	2.00	2.00	11,240.00	11,240.00
	8' Extra Depth	VF	0.00			12.53	12.53	8,457.75	8,457.75
75	Remove and Reset Existing Fence	LS	0.00			300.00	300.00	4,500.00	4,500.00
76									
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	A	В	С	D	E	F	G	Н	I
77	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	2,374.00	180.00	427,320.00	2,374.00	4,748.00	427,320.00	0.00
	Construct 5' Diameter Manhole	Each	7.00	2,500.00	17,500.00	8.00	15.00	20,000.00	2,500.00
79	Extra Depth 5' Diameter Manhole	VF	40.00	350.00	14,000.00	45.70	85.70	15,995.00	1,995.00
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				555,439.00				
93									
94	Project Total				1,271,018.75	Ne	w Project Total	1,450,369.25	

	Α	В	С	D	E	F	G
1	History of Changes Occurring		4.0				
2							
						CHANGE	
						ORDER	
3					(C*D)	01	(C+F)
						Quantity	TOTAL
			Estimated	Unit	Estimated	Changed	QUANITY
4	Item Description	Unit	Quantity	Price	Cost	by	TO DATE
5	Base Bid						0.00
6	Pipe Bursting 20' (HDPE)(SDR19)	LF	148.00	100.00	14,800.00		148.00
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		28.00
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		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

	Α	В	С	D	E	F	G
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
	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		5.00
51	Extra Depth 5' Diameter Manhole	VF	33.00	350.00	11,550.00		33.00
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
	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	В	С	D	Е	F	G
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		1,705.00	2.00	325,898.00		1,705.00
66	Added Items for Add Alt #1				323,030.00		
	8" PVC Pipe	LF	0.00	35.00	0.00	417.00	417.00
	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 Connections 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
-	Extra Depth 4' Diameter Manhole	VF	0.00	175.00	0.00	4.00	4.00
	Perm. Concrete Pavement Remove & Replace	SY	0.00	240.00	0.00	42.00	42.00
	8' Diameter Manhole (0-6')	Each	0.00	5,620.00	0.00	2.00	2.00
	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	Remove and reset existing Pence	123	0.00	13.00	0.00	300.00	300.00
79	Add Alt #2						
80	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	2,374.00	180.00	427,320.00		2,374.00
81	Construct 5' Diameter Manhole	Each	7.00	2,500.00	17,500.00	1.00	8.00
82	Extra Depth 5' Diameter Manhole	VF	40.00	350.00	14,000.00	5.70	45.70
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
	Point Repair	LF	100.00	130.00	13,000.00		100.00
	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		1.00
_	Leakage Test	LS	1.00	1,500.00	1,500.00		1.00
	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
1 -	Add Alt #2		-		555,439.00		

	A	В	С	D	Е	F	G
96							
97	Project Total				1,271,018.75		
98							
99	Change Order 7/18/2017						
100	Base Bid Changes						
101	Trench Excavation	LF	482.00	10.00	4,820.00		
102	Standard Bedding Material	CY	740.00	30.00	22,200.00		
103	Manhole Frame and Lid	Each	3.00	325.00	975.00		
104	Abandon Sewer	CY	91.00	125.00	11,375.00		
105	Base Bid Added Items						
106	Perm. Concrete Pavement Remove & Replace	SY	36.00	240.00	8,640.00		
107	8' Diameter Manhole (0-6')	Each	3.00	5,620.00	16,860.00		
108	8' Extra Depth	VF	15.97	675.00	10,779.75		
109	Construction Staking	LS	1.00	1,500.00	1,500.00		
110	30" Bore	LF	290.00	175.00	50,750.00		
111	Extra Concrete Work on Apron South of Bridge	LS	1.00	15,500.00	15,500.00		
112	30" Steel Encasement Pipe	LF	290.00	125.00	36,250.00		
113	Add Alt #1 Changes						
114	Pipe Bursting 26" Pipe (HDPE)(SDR19)	LF	-650.00	135.00	-87,750.00		
115	Manhole Frame and Lid	Each	4.00	325.00	1,300.00		
116	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	-46.00	160.00	-7,360.00		
117	Remove & Replace Sidewalk/Trail	SY	-70.00	60.00	-4,200.00		
118	Add Alt #1 Added Items						
119	8" PVC Pipe	LF	417.00	35.00	14,595.00		
120	24" PVC Pipe	LF	772.00	45.00	34,740.00		
121	Trench Excavation	LF	417.00	10.00	4,170.00		
122	Sewer Service Connections	Each	10.00	500.00	5,000.00		
123	Sewer Service Line	LF	200.00	20.00	4,000.00		
124	Construction 4' Diameter Manhole	Each	2.00	1,500.00	3,000.00		
125	Extra Depth 4' Diameter Manhole	VF	4.00	175.00	700.00		
126	Perm. Concrete Pavement Remove & Replace	SY	42.00	240.00	10,080.00		
$\overline{}$	8' Diameter Manhole (0-6')	Each	2.00	5,620.00			
128	8' Extra Depth	VF	12.53	675.00	8,457.75		

	A	В	С	D	E	F	G
129	Remove and Reset Existing Fence	LS	300.00	15.00	4,500.00		
130	Add Alt #2 Changes						
131	Construct 5' Diameter Manhole	Each	1.00	2,500.00	2,500.00		
132	Extra Depth 5' Diameter Manhole	VF	5.70	350.00	1,995.00		
133	Manhole Frame and Lid	Each	1.00	325.00	325.00		
134	Sanitary Sewer Manhole Rehab (5' Diameter)	VF	-47.45	160.00	-7,592.00		
135		179,350.50	•)				
136							
137	New Total Project Cost				1,450,369.25		

Project Name: LITTLE RIVER PARK

CO ITEMS ALLOCATION

LAST UPDATE: 8/23/17

ITEM DESCRIPTION	BASE BID PORTION	ALT#1	ALT #2	NEW TOTAL QUANTITY		
AMMENDED ORIGINAL BID ITEMS						
		417 LF		933 LF		
8° PVC PIPE	-	772 LF		2790 LF		
24" PVC PIPE	40015	417 LF		3433 LF		
TRENCH EXCAVATION	482 LF	417 LF		2200 CY		
STANDARD BEDDING MATERIAL	740 CY		454	20 EA		
CONSTRUCT 5' DIA MH			1 EA			
EXTRA DEPTH 5' DIA MH			5.70 VF	145.70 VF		
MANHOLE FRAM & LID	3 EA	4 EA	1 EA	29 EA		•
SANITARY SEWER MH REHAB 5' DIA	-	-46.0 VF	-47.45 VF	60.55 VF	-	
SEWER SERVICE CONNECTIONS		10 EA		13 EA	-	
SEWER SERVICE LINES		200 LF		300 LF		
ABANDON SEWER	91 CY			111 CY		
CONSTRUCT 4' DIA MH		2 EA		4 EA		
EXTRA DEPTH 4' DIA MH		4 VF		10 VF		
PIPE BURSTING 26" DIA PIPE		-650 LF		1139 LF		4.
REMOVE & REPLACE SIDEWALK/TRAIL		-70 SY		449 SY	-	
NEW ITEMS ADDED BY CHANGE ORDER						
PERM CONC PAVEMENT REM& REPL	36 SY	42 SY		78 SY		
8° DIA MH	3 EA	2 EA		5 EA		
8° EXTRA DEPTH MH	15.97 VF	12.53 VF		28.5 VF		A
CONSTRUCTION STAKING	1LS			1 LS	-	
30° DIA BORE	290 LF			290 LF		****
REMOVE & RESET EXISTING FENCE		300 LF		300 LF	-	
EXTRA CONC WORK ON APRON SOUTH OF BRIDGE	1LS			1 LS		-
30° DIA STEEL ENCASEMENT PIPE	290 LF			290 LF	-	
					-	
					+	
	-				-	
					-	
	-		-		-	
				-	-	
					-	

Cost Reasonableness Certification

Project Name	Little River Sewer Interceptor				
Work Order Number	I-03-W-LMA	Date 7/18/2017			

Line Item	Contract Amount		Industry Standard	Vendor
Contruction of Rehabilitation/Replacement of Sewer Interceptor	\$	569,782.25	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
Add Alternate #1	\$	238,148.00	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
Add Alternate #2	\$	555,439.00	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
30" Bore	\$	50,750.00	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
30" Steel Encasement Pipe	\$	36,250.00	Preliminary Cost Estimate for City of Moore's Little River Park Sanitary Sewer Interceptor	Cabbiness Engineering
Total	\$	1,450,369.25		

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

Signature

7/18/2017

Date





July 31, 2017

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

RE:

Change Order No. 1 - I-03-W-LMA Little River Park Sanitary Sewer Interceptor Rehabilitation/Replacement

Mr. Jakubowski:

The cost changes submitted by Matthew's Trenching dated July 13, 2017 have been reviewed and the costs for added pay items have been found to be reasonable and acceptable. The prices shown in Change Order No. 1 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,

Michael Way, P.E

File: 251