CDBG-DR 13
CHANGE ORDER OR WORK ORDER AMENDMENT

Project Information					
Project Name	Little River Drainage Improvements				
Work Order Number (CDBG-DR 01)	I-15-W-URG	**Project Address**	South End of Little River Park		
Date	4/5/2019	**Requested By**	Downey Contracting. LLC		
Date Requested	3/20/2019	**Total Budget**	$10,819,468.95	**Cost of Change**	$87,932.75

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

Budget Line Items Affected: (List All)

10' Wide Concrete Trail (4" Think) – Unit Price $36.50/SY, Quantity decreased by 2,618
42" Concrete End Treatment (Class A Concrete) for 10' Wide Concrete Trail – Unit Price $5,800 each, Quantity decreased by 1
36" C76 CL III RCP, Complete in Place for 10' Wide Concrete Trail – Unit Price $120/LF, Quantity decreased by 40
Granular Backfill (#57 Crushed Stone Clean Washed) – Unit Price $31.00/CY, Quantity increased by 7,500
Inlet CI Des. 2 (D) – Unit Price $8,850 each, Quantity decreased by 1
4' Black Vinyl Coated Chain Link Fence – Unit Price $18.75/LF, Quantity decreased by 6,067.48

Added Items:

Inlet Des. 3D – Unit Price $9,497 each, Quantity 1
4' x 4' RCB – Unit Price $180/LF, Quantity 91.40
Class A Concrete End Treatments – Unit Price $5,800 each, Quantity 2
Concrete Pads for Fitness Stations (paid from a different fund-leveraged) – Unit Price $66.00/SY, Quantity 266

Synthetic Turf with ¼" pad (paid from a different fund-leveraged) – Unit Price $12.00/SF, Quantity 2,425	
Change Description	The City received grant funds from the "Cardinal Cares Foundation". These funds were to be used on fitness stations in Little River Park. The City decided it would be easier and more cost efficient if Downey completed the installation of the concrete pads for the stations. These concrete pads for the fitness stations will be paid for by the foundation grant funds. The contractor received final installation plans from its wall manufacturer's engineer that the backfill for the retaining wall must be all crushed stone backfill. In the preliminary plans, the backfill contained crushed stone and clay soil. The City decided it was in its best interest to backfill with all crushed stone to ensure the construction and safety of the retaining wall along the channel. The engineer made a change to the construction plans by increasing the size of the drainage inlet from a size Des. 2 inlet to a size Des. 3D inlet at SW 17th and Janeway. The plans did not specify the new drainage structure at the SE corner of the lower pond. The contractor asked the engineer to give a plan drawing for the structure. The engineer requested it to be 4'x4' RCB with concrete end treatments. Because of the necessary changes for the construction of this project increasing the cost for this project, the City made decision to bid out the fence separately that will run along the channel, removing it from this contract.

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**	4/17/2019
Change Order Authorization ONLY Project Manager Signature	Harley Gillett	**Date**	4/17/2019
Change Order Authorization ONLY Project Supervisor Signature		**Date**	4/17/2019
Contract Amendment			
Work Order Amendment Authorization ONLY Vendor Signature		**Date**	
Work Order Amendment Authorization ONLY Project Manager Signature		**Date**	
Work Order Amendment Authorization ONLY		**Date**	

History of Changes Occurring

Item Description	Unit	Estimated Quantity	Unit Price	Estimated Cost (C*D)	CHANGE ORDER 01 Quantity Changed by	CHANGE ORDER 02 Quantity Changed by	CHANGE ORDER 03 Quantity Changed by	CHANGE ORDER 04 Quantity Changed by	TOTAL QUANITY TO DATE (C+F)
SWPPP DOCUMENTATION AND MANAGEMENT	LS	1.00	4,000.00	4,000.00					1.00
EARTHWORK	CY	174,862.16	12.47	2,180,531.14					174,862.16
GRANULAR BACKFILL (#57 CRUSHED STONE CLEAN WASHED)	CY	5,204.00	47.00	244,588.00					5,204.00
PRECAST ARCH CULVERT W/ AESTHETICS	EA	1.00	549,000.00	549,000.00					1.00
6" #57 CRUSHED STONE LEVELING PAD (WALL)	CY	646.11	57.00	36,828.27					646.11
8" COMPACTED SUBGRADE (WALL)	SY	4,045.00	13.00	52,585.00					4,045.00
AGGREGATE BASE (TYPE A)	CY	422.00	72.00	30,384.00					422.00
PORTLAND CEMENT CONCRETE PAVEMENT (9" DOWEL JOINTED)	SY	1,900.64	52.00	98,833.34					1,900.64
CONC. CURB (6" BARRIER-INTEGRAL)	LF	1,124.42	8.00	8,995.36					1,124.42
BRICK PAVERS (SP)	SF	298.00	27.00	8,046.00					298.00
24" CONCRETE END TREATMENT (CLASS A CONC.)	EA	1.00	1,500.00	1,500.00					1.00
(SP) 8" CORRUGATED POLYPROPYLENE PIPE	LF	25.26	42.00	1,060.92			-25.26		0.00
(SP) 16" CORRUGATED POLYPROPYLENE PIPE	LF	18.60	62.00	1,153.20			-18.60		0.00
(SP) 18" CORRUGATED POLYPROPYLENE PIPE	LF	5.40	100.00	540.00			-2.10		3.30
(SP) 21" CORRUGATED POLYPROPYLENE PIPE	LF	8.00	100.00	800.00			-8.00		0.00
(SP) 24" CORRUGATED POLYPROPYLENE PIPE	LF	42.00	125.00	5,250.00			130.50		172.50
(SP) 36" CORRUGATED POLYPROPYLENE PIPE	LF	26.80	240.00	6,432.00			108.30		135.10
(SP) 48" CORRUGATED POLYPROPYLENE PIPE	LF	15.60	350.00	5,460.00			73.80		89.40
6' X 3' C76 CL III RCB, COMPLETE IN PLACE	LF	80.80	220.00	17,776.00			-80.80		0.00
36" C76 CL III RCP, COMPLETE IN PLACE	LF	57.20	140.00	8,008.00			85.00		142.20
STORM SEWER MANHOLE (5' DIA.)	EA	11.00	3,300.00	36,300.00			1.00		12.00
STORM SEWER MANHOLE (6' DIA.)	EA	3.00	4,000.00	12,000.00					3.00
STORM SEWER MANHOLE ADDED DEPTH (5' DIA.)	VF	21.34	160.00	3,414.40			10.40		31.74
STORM SEWER MANHOLE ADDED DEPTH (6' DIA.)	VF	3.63	270.00	980.10			1.00		4.63
INLET SMD (TYPE 2B)	EA	2.00	3,700.00	7,400.00					2.00
ADJUST MANHOLE TO GRADE	EA	7.00	2,000.00	14,000.00			5.00		12.00
4" PERFORATED SUBDRAIN PIPE	LF	6,723.00	5.00	33,615.00					6,723.00
INLET CI DES. 2 (D)	EA	5.00	8,850.00	44,250.00			1.00	-1.00	5.00
ST-95 STORM OUTLET STRUCTURE (COMPLETE)	EA	1.00	2,000.00	2,000.00					1.00
TRAFFIC STRIPE (PLASTIC) (WHITE) (4" WIDE)	LF	356.22	6.00	2,137.32					356.22
TRAFFIC STRIPE (PLASTIC) (WHITE) (24" WIDE)	LF	80.00	20.00	1,600.00					80.00
TRAFFIC STRIPE (PLASTIC) (WHITE) (SYMBOLS)	EA	2.00	500.00	1,000.00					2.00
PAVEMENT MARKING REMOVAL (TRAFFIC STRIPE)	LF	223.00	2.00	446.00					223.00
PAVEMENT MARKING REMOVAL (SYMBOLS)	EA	1.00	250.00	250.00					1.00
CONSTRUCTION STAKING, LEVEL II	LSUM	1.00	59,800.00	59,800.00					1.00
FIELD OFFICE	EA	1.00	5,000.00	5,000.00					1.00
MOBILIZATION	EA	1.00	230,000.00	230,000.00					1.00
CLEARING AND RESTORING	LSUM	1.00	240,000.00	240,000.00					1.00

	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LSUM	1.00	24,000.00	24,000.00					1.00
	REMOVE EXIST. HEADWALL & WINGWALL	EA	4.00	5,000.00	20,000.00					4.00
	REMOVAL OF 17TH STREET BRIDGE	LS	1.00	38,000.00	38,000.00					1.00
	REMOVE SIDEWALK	SY	3,167.00	6.50	20,585.50					3,167.00
	REMOVE CURB & GUTTER	LF	1,124.00	5.50	6,182.00					1,124.00
	CONCRETE PAVEMENT REMOVAL	SY	1,900.64	8.00	15,205.13					1,900.64
	REMOVE DRIVEWAY	SY	48.20	45.00	2,168.85					48.20
	SIDEWALK	SY	314.00	67.00	21,038.00					314.00
	6" P.C. CONC. DRIVEWAY (HES)	SY	48.20	98.00	4,723.27					48.20
	4' BLACK VINYL COATED CHAIN LINK FENCE	LF	6,067.48	18.75	113,765.25				-6,067.48	0.00
	WHEELCHAIR RAMP (TYPE B)	SY	47.14	140.00	6,598.98					47.14
	WHEELCHAIR RAMP (TYPE D)	SY	136.29	140.00	19,080.91					136.29
	TACTILE MARKERS/TRUNCATED DOMES	SF	120.00	16.00	1,920.00					120.00
	SOLID SLAB SODDING (U-3 BERMUDA)	SY	120,286.96	1.80	216,516.53					120,286.96
	TEMPORARY SILT FENCE	LF	15,100.41	1.40	21,140.57					15,100.41
	FILTER FABRIC	SY	1,935.00	2.75	5,321.25					1,935.00
	10' WIDE CONCRETE TRAIL (4" THICK)	SY	14,044.00	30.00	421,320.00					14,044.00
	TURF REINFORCEMENT MATS (TRMS)	SY	11,832.69	17.00	201,155.73					11,832.69
	TURF REINFORCEMENT MATS (ARMS)	SY	333.33	25.00	8,333.33					333.33
	BOLLARD POST (REMOVABLE RECEIVER W/ LID)	EA	4.00	1,000.00	4,000.00					4.00
	36" FLAP GATE	EA	2.00	6,300.00	12,600.00					2.00
	RECON BLOCK CHANNEL WALL (NO AESTHETICS)	SFF	54,237.00	51.75	2,806,764.75		7,424.00			61,661.00
Sanitary Sewer	TRENCH EXCAVATION AND BACKFILL (0' TO 10')	CY	82.00	38.00	3,116.00					82.00
	12" SDR-35 POLY WRAPPED	LF	93.00	80.00	7,440.00					93.00
	24" STEEL CASING	LF	80.00	300.00	24,000.00					80.00
Waterline	TRENCH EXCAVATION AND BACKFILL (0' TO 10')	CY	677.00	10.00	6,770.00					677.00
	ROCK BACKFILL	CY	622.00	46.00	28,612.00					622.00
	8" PVC PIPE C-900	LF	918.00	24.00	22,032.00					918.00
	8" SOLID SLEEVE (RJ)	EA	3.00	200.00	600.00					3.00
	8" x 8" x 6" TEE	EA	1.00	280.00	280.00					1.00
	8" x 8" x 8" TEE	EA	4.00	320.00	1,280.00					4.00
	8" 11.25° BEND (RJ)	EA	9.00	190.00	1,710.00					9.00
	8" 22.5° BEND (RJ)	EA	5.00	190.00	950.00					5.00
	8" 45° BEND (RJ)	EA	10.00	190.00	1,900.00					10.00
	8" GATE VALVE (RJ) AND VALVE BOX	EA	5.00	1,250.00	6,250.00					5.00
	FIRE HYDRANT	EA	2.00	3,000.00	6,000.00					2.00
	CLEARING AND RESTORING	LSUM	1.00	27,000.00	27,000.00					1.00

Bridge A	DRILLED SHAFTS (18" DIAMETER)	LF	196.00	75.00	14,700.00					196.00
	STRUCTURAL CONCRETE	CY	11.10	1,600.00	17,760.00					11.10
	REINFORCING STEEL	LB	850.00	2.00	1,700.00					850.00
	INSTALLATION OF BRIDGE ITEMS	EA	1.00	28,000.00	28,000.00					1.00
										0.00
Bridge B	DRILLED SHAFTS (18") DIAMETER	LF	156.00	75.00	11,700.00					156.00
	STRUCTURAL CONCRETE	CY	6.90	1,600.00	11,040.00					6.90
	REINFORCING STEEL	LB	740.00	2.00	1,480.00					740.00
	INSTALLATION OF BRIDGE ITEMS	EA	1.00	28,000.00	28,000.00					1.00
Outlet Structure	STRUCTURAL EXCAVATION	CY	5,260.00	18.00	94,680.00			340.00		5,600.00
	STRUCTURAL CONCRETE	CY	1,041.30	996.00	1,037,134.80		361.70			1,403.00
	REINFORCING STEEL	LB	83,270.00	1.03	85,768.10					83,270.00
	PERFORATED UNDERDRAIN PIPE CONDUIT (6")	LF	262.00	55.00	14,410.00					262.00
	4 FT PEDESTRIAN RAILING	LF	310.00	175.00	54,250.00					310.00
Add Alt 1	10' WIDE CONCRETE TRAIL (4" THICK)	SY	2,243.00	36.50	81,869.50					2,243.00
Add Alt 2	10' WIDE CONCRETE TRAIL (4" THICK)	SY	2,618.00	36.50	95,557.00				-2,618.00	0.00
	42" CONCRETE END TREATMENT (CLASS A CONC.)	EA	1.00	5,800.00	5,800.00				-1.00	0.00
	36" C76 CL III RCP, COMPLETE IN PLACE	LF	40.00	120.00	4,800.00				-40.00	0.00
Add Alt 3	RECON BLOCK W/ WEATHERED EDGE & STAINING	SFF	54,237.00	3.25	176,270.25		7,424.00			61,661.00
										0.00
	Added Items									0.00
	Construction Fencing	LSUM	-	5,375.27	0.00	1.00				1.00
	(SP) 12" CORRUGATED POLYPROPYLENE PIPE (CHARGE SAME UNIT PRICE AS 8")	LF	-	42.00	0.00			23.10		23.10
	(SP) 15" CORRUGATED POLYPROPYLENE PIPE (CHARGE SAME UNIT PRICE AS 8")	LF	-	42.00	0.00			18.70		18.70
	(SP) 30" CORRUGATED POLYPROPYLENE PIPE (CHARGE SAME UNIT PRICE AS 24")	LF	-	125.00	0.00			46.00		46.00
	INLET CI DES. 3 (CHARGE SAME UNIT PRICE AS INLET CI DES. 2)	EA	-	5,800.00	0.00			2.00		2.00
	GRANULAR BACKFILL (#57 CRUSHED STONE CLEAN WASHED)	CY	-	31.00	0.00				7,500.00	7,500.00
	INLET DES. 3D	EA	-	9,497.00	0.00				1.00	1.00
	CONCRETE PADS FOR FITNESS STATIONS (PAID FROM A DIFFERENT FUND-LEVERAGED)	SY	-	66.00	0.00				266.00	266.00
	SYNTHETIC TURF WITH 1/4" PAD (PAID FROM A DIFFERENT FUND-LEVERAGED)	SF	-	12.00	0.00				2,425.00	2,425.00
	4' x 4' RCB	LF	-	180.00	0.00				91.40	91.40
	CLASS A CONCRETE END TREATMENTS	EA	-	5,800.00	0.00				2.00	2.00
	Total Budget				**9,849,243.75**					

	Change Order 6-13-18									
	Construction Fencing	LSUM	1.00	5,375.27	5,375.27					
				Total Change Order #1	**5,375.27**					
	Change Order 9-21-18									
	STRUCTURAL CONCRETE (Outlet Structure)	CY	361.70	996.00	360,253.20					
	RECON BLOCK CHANNEL WALL (NO AESTHETICS)	SFF	7,424.00	51.75	384,192.00					
	RECON BLOCK W/ WEATHERED EDGE & STAINING	SFF	7,424.00	3.25	24,128.00					
				Total Change Order #2	**768,573.20**					
	Change Order 12-13-18									
	(SP) 8" CORRUGATED POLYPROPYLENE PIPE	LF	(25.26)	42.00	-1,060.92					
	(SP) 16" CORRUGATED POLYPROPYLENE PIPE	LF	(18.60)	62.00	-1,153.20					
	(SP) 18" CORRUGATED POLYPROPYLENE PIPE	LF	(2.10)	100.00	-210.00					
	(SP) 21" CORRUGATED POLYPROPYLENE PIPE	LF	(8.00)	100.00	-800.00					
	(SP) 24" CORRUGATED POLYPROPYLENE PIPE	LF	130.50	125.00	16,312.50					
	(SP) 36" CORRUGATED POLYPROPYLENE PIPE	LF	108.30	240.00	25,992.00					
	(SP) 48" CORRUGATED POLYPROPYLENE PIPE	LF	73.80	350.00	25,830.00					
	6' X 3' C76 CL III RCB, COMPLETE IN PLACE	LF	(80.80)	220.00	-17,776.00					
	36" C76 CL III RCP, COMPLETE IN PLACE	LF	85.00	140.00	11,900.00					
	STORM SEWER MANHOLE (5' DIA.)	EA	1.00	3,300.00	3,300.00					
	STORM SEWER MANHOLE ADDED DEPTH (5' DIA.)	VF	10.40	160.00	1,664.00					
	STORM SEWER MANHOLE ADDED DEPTH (6' DIA.)	VF	1.00	270.00	270.00					
	ADJUST MANHOLE TO GRADE	EA	5.00	2,000.00	10,000.00					
	INLET CI DES. 2 (D)	EA	1.00	8,850.00	8,850.00					
	STRUCTURAL EXCAVATION (Outlet Structure)	CY	340.00	18.00	6,120.00					
	(SP) 12" CORRUGATED POLYPROPYLENE PIPE (CHARGE SAME UNIT PRICE AS 8")	LF	23.10	42.00	970.20					
	(SP) 15" CORRUGATED POLYPROPYLENE PIPE (CHARGE SAME UNIT PRICE AS 8")	LF	18.70	42.00	785.40					
	(SP) 30" CORRUGATED POLYPROPYLENE PIPE (CHARGE SAME UNIT PRICE AS 24")	LF	46.00	125.00	5,750.00					
	INLET CI DES. 3 (CHARGE SAME UNIT PRICE AS INLET CI DES. 2)	EA	2.00	5,800.00	11,600.00					
				Total Change Order #3	**108,343.98**					
	Change Order 4-16-19									
	10' WIDE CONCRETE TRAIL (4" THICK)	SY	(2,618.00)	36.50	-95,557.00					
	42" CONCRETE END TREATMENT (CLASS A CONC.)	EA	(1.00)	5,800.00	-5,800.00					
	36" C76 CL III RCP, COMPLETE IN PLACE	LF	(40.00)	120.00	-4,800.00					
	GRANULAR BACKFILL (#57 CRUSHED STONE CLEAN WASHED)	CY	7,500.00	31.00	232,500.00					
	INLET CI DES. 2 (D)	EA	(1.00)	8,850.00	-8,850.00					
	INLET DES. 3D	EA	1.00	9,497.00	9,497.00					
	CONCRETE PADS FOR FITNESS STATIONS (PAID FROM A DIFFERENT FUND-LEVERAGED)	SY	266.00	66.00	17,556.00					
	SYNTHETIC TURF WITH 1/4" PAD (PAID FROM A DIFFERENT FUND-LEVERAGED)	SF	2,425.00	12.00	29,100.00					
	4' BLACK VINYL COATED CHAIN LINK FENCE	LF	(6,067.48)	18.75	-113,765.25					
	4' x 4' RCB	LF	91.40	180.00	16,452.00					
	CLASS A CONCRETE END TREATMENTS	EA	2.00	5,800.00	11,600.00					

			Total Change Order #4	87,932.75					
			New Total Project Cost	10,819,468.95					

Cost Reasonableness Certification

Project Name	Little River Drainage Improvements	
Work Order Number	I-15-W-URG	Date 4/17/2019

Line Item	Contract Amount	Industry Standard	Vendor
Drainage Improvements	$ 8,580,233.83	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Sanitary Sewer	$ 34,556.00	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Water Line	$ 103,384.00	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Bridge A	$ 62,160.00	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Bridge B	$ 52,220.00	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Outlet Structure	$ 1,652,616.10	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Add Alternate #1-Trail East of Channel	$ 81,869.50	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Add Alternate #2-Trail Inside Pond Area	$ -	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Add Alternate #3-Recon Block Channel Wall w/aesthetics	$ 200,398.25	Conceptual Engineer's Estimate Little River Park Drainage Improvements	Meshek & Associates
Construction Fencing	$ 5,375.27	City of Moore Review	City of Moore
Fitness Stations	$ 46,656.00	City of Moore Review	City of Moore
Total	**$ 10,819,468.95**		

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.*

Todd Jenson, Project Supervisor — Signature — 4/17/2019 Date

Kahley Gilbert

From: Ben Fletcher <BFletcher@meshekengr.com>
Sent: Wednesday, April 10, 2019 7:43 AM
To: Kahley Gilbert
Subject: RE: Reasonable Costs

I'm not sure about the turf, but the rest seem reasonable.

Ben Fletcher, PE, LSI
Project Manager | Meshek & Associates, LLC
1437 S Boulder Ave Ste 1550 | Tulsa, OK 74119
(918) 392-5620 x205 | (918) 693-5504
Micah 7:7-10

From: Kahley Gilbert <KGilbert@cityofmoore.com>
Sent: Tuesday, April 9, 2019 9:27 AM
To: Ben Fletcher <BFletcher@meshekengr.com>
Subject: Reasonable Costs

Ben,

Can you tell me if the cost of these are reasonable? We added a fitness station along the trail in the park that is funded by another grant. That is what the concrete pad and turf is for.

Thanks!!

Kahley Gilbert
Project-Grants Manager
Capital Planning and Resiliency
City of Moore
301 N. Broadway Moore, Oklahoma 73160
405-793-4571 phone 405-793-5057 fax
kgilbert@cityofmoore.com

McNeil Inc.
408 Steve Douglas Dr
Edmond, OK 73034 US
405-888-6520
McNeil.inc@outlook.com

ESTIMATE

ADDRESS
Kahley Gilbert
301 N Broadway st
Moore, Ok 73180

ESTIMATE # 1065
DATE 04/16/2019

ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
SYNlawn	River park 2" padding 2425 s/f of Synlawn with 1.5" pile height Composite edging, compacted base, envirofill infill	1	32,200.00	32,200.00

TOTAL **$32,200.00**

Accepted By

Accepted Date

DOWNEY CONTRACTING, L.L.C.

3217 NE 63rd Street, Oklahoma City, OK 73121 Office: 405-478-5277, Fax 405-478-5269

CHANGE ORDER PROPOSAL

Date: 3/20/19

Project: Little River Drainage Improvements - Moore, Oklahoma

Includes: The following pricing includes **only** line items listed below.

Reason: Drainage structure was added to project by engineer.

Item No.	QTY	Unit	Item Description		Price	Total
N/A	91.40	LF	4'x4' RCB	$	180.00	$16,452.00
N/A	2.00	EA	Class A Concrete End Treatments	$	5,800.00	$11,600.00

Day Zimbelman, Project Manager
dzimbelman@downeycontracting.com

Request for Information Form

RFI #	014
Date	2/22/2019
Date Needed by	3/1/2019
Project Name	Little River Park Drainage Improvements
Project #	I-15-W-LMA

To: Abe Barbour/ Ben Fletcher/ David Neuhauser

RFI Description

Sheet 37 shows removal of an existing storm drainage structure on the west side of the lower pond. Sheet 31 appears to show a new drainage structure at the southeast corner of the lower pond, extending to a swale, but there is no information on what size of pipe, etc. Can you please provide a plan/profile drawing of this line?

Attachments:	

Submitted By:	Day Zimbelman

Response to RFI

Response By:		**Date:**	

DOWNEY CONTRACTING, L.L.C.

3217 NE 63rd Street, Oklahoma City, OK 73121 Office: 405-478-5277, Fax 405-478-5269

CHANGE ORDER PROPOSAL

Date: 4/5/19

Project: Little River Drainage Improvements - Moore, Oklahoma

Includes: The following pricing includes only line items listed below.

Reason: Revise Inlet ST-91 to Type 3D in lieu of Des. 2

	QTY	Unit	Item Description		Price	Total
	1.00	EA	ST-91 Add Des. 3D Inlet	$	9,497.00	$9,497.00
	-1.00	EA	ST-91 Delete Des. 2 Inlet	$	8,850.00	-$8,850.00

Day Zimbelman, Project Manager
dzimbelman@downeycontracting.com

Kahley Gilbert

From: Ben Fletcher <BFletcher@meshekengr.com>
Sent: Friday, December 14, 2018 12:05 PM
To: Kahley Gilbert
Cc: Zachary McManaman
Subject: RE: Change Order 3

Kahley,

We do have one change we would like to submit to Downey for a change order.

Structure ST-91 needs to be a Design 3D inlet.

If either Moore or Downey have questions, please don't hesitate to give me a call.

Ben Fletcher, PE, LSI
Project Manager | Meshek & Associates, LLC
1437 S Boulder Ave Ste 1550 | Tulsa, OK 74119
(918) 392-5620 x205 | (918) 693-5504
Micah 7:7-10

From: Kahley Gilbert <KGilbert@cityofmoore.com>
Sent: Wednesday, December 12, 2018 10:07 AM
To: Ben Fletcher <BFletcher@meshekengr.com>
Subject: FW: Change Order 3

Good Morning Ben,

Downey submitted some revisions to some of the items. Can you review?

Also when they were tying into an existing pipe coming from the cemetery on the west side of the project, the existing pipe was rusted. We decided to have them replace that existing 85' of 36" corrugated pipe.

Thank you!!

Kahley

From: Day Zimbelman [mailto:dzimbelman@downeycontracting.com]
Sent: Tuesday, December 11, 2018 1:30 PM
To: Kahley Gilbert <KGilbert@cityofmoore.com>
Cc: Zachary McManaman <zmcmanaman@downeycontracting.com>; Greg Trent <gtrent@downeycontracting.com>
Subject: Re: Change Order 3

Kahley: I hope the following table makes sense, I've went through all the plan sheets and listed the actual quantities of each size of pipe, manhole, inlet, etc related to the storm drainage and compared it to the original bid quantities. The bid quantities are shown in green and the actual quantities from the plan sheets are shown in orange with credits for items not used and adds for quantity overruns or items that were not shown on the original bid. Let me know if you have any questions.

DOWNEY CONTRACTING, L.L.C.

3217 NE 63rd Street, Oklahoma City, OK 73121 Office: 405-478-5277, Fax 405-478-5269

CHANGE ORDER PROPOSAL

Date: 3/20/19

Project: Little River Drainage Improvements - Moore, Oklahoma

Includes: The following pricing includes **only** line items listed below.

Reason: Added by Owner.

	QTY	Unit	Item Description		Price	Total
	266.00	SY	Concrete Pads for Fitness Stations (includes grading)	$	66.00	$17,556.00
	2425.00	SF	Synthetic Turf with 1/4" Pad	$	12.00	$29,100.00

17,556.00 +
29,100.00 +
002
46,656.00 *

000
0.00 *

Day Zimbelman, Project Manager
dzimbelman@downeycontracting.com

DOWNEY CONTRACTING, L.L.C.

3217 NE 63rd Street, Oklahoma City, OK 73121 Office: 405-478-5277, Fax 405-478-5269

CHANGE ORDER PROPOSAL

Date: 3/20/19

Project: Little River Drainage Improvements - Moore, Oklahoma

Includes: The following pricing includes **only** line items listed below.

Reason: The original estimated bid quantity of 5,204 cy of rock backfill of Recon wall does not provide enough material to complete backfill operations.

Item No.	QTY	Unit	Item Description		Price	Total
3	7500.00	CY	ADDITIONAL #57 STONE BACKFILL	$	31.00	$232,500.00

Day Zimbelman, Project Manager
dzimbelman@downeycontracting.com

City of Moore
Oklahoma
301 N. Broadway, Moore, OK 73160 | (405) 793-5000 | www.cityofmoore.com

MEMO

Date: April 4, 2019

To: File for I-15-W-URG, Little River Park & Channel

From: Kahley Gilbert, Project-Grant Manager KG

Subject: Rock Backfill for Channel Wall

The construction plans for Little River Park Drainage Improvements completed by Meshek and Associates specified a backfill that contained both crushed stone and clay soil. When completing the specifications, Ben Fletcher, the engineer with Meshek and Associates, consulted with a wall manufacturer about the installation for this particular type of retaining wall. The manufacturer approved of the installation plans completed by Ben Fletcher; however, these plans were only preliminary. The contractor had to complete final installation plans for the retaining wall from its own manufacturer.

Downey Contracting, the contractor, contacted their manufacturer for installation plans. The engineer for its manufacturer stated that the wall must be backfilled completely with crushed stone. According to Marty Gray, an engineer representing Downey's manufacturer, the full backfill of crushed stone "improves the properties of the retain soils for the wall and it helps with hydrostatic pressure of the water during high water levels. He stated using on-site clay soils would lead to an overturning failure of the retaining wall from soil and water pressures."

The City discussed with Ben Fletcher the different install plan that Downey had received from its manufacturer. Although more costly, Ben stated that eliminating the soil retainage in the backfill and using all crushed stone would be an improvement.

Downy Contracting informed the City that if the City chose to backfill the retaining wall as specified by Meshek and Associates using crushed stone and retained soil, its manufacturer's engineer and Downey would both request to be released from all liability for the wall.

The City decided it would be in its best interest to accept the improvement for the installation of the wall. Not only was it an improvement to the installation of the wall itself, but the City was able to maintain the liability responsibility with the contractor.

Kahley Gilbert

From: Kahley Gilbert
Sent: Friday, March 29, 2019 3:09 PM
To: 'Day Zimbelman'
Subject: RE: Fence Pricing

Ok I will let everyone here know.

From: Day Zimbelman [mailto:dzimbelman@downeycontracting.com]
Sent: Friday, March 29, 2019 2:56 PM
To: Kahley Gilbert <KGilbert@cityofmoore.com>
Subject: Re: Fence Pricing

I have not been able to get all parties together for a conference call. However, I did speak to Marty Gray who provided our engineering calculations for the Recon wall. He and Downey would request to be released from all liability for the wall if the engineer wants to accept this liability and change the design. I will give Ben a call now and discuss with him.

On Fri, Mar 29, 2019 at 2:24 PM Kahley Gilbert <KGilbert@cityofmoore.com> wrote:

Day,

Do you have an update on the meeting with the engineers and the backfill?

Kahley

From: Day Zimbelman [mailto:dzimbelman@downeycontracting.com]
Sent: Tuesday, March 26, 2019 9:37 AM
To: Kahley Gilbert <KGilbert@cityofmoore.com>
Subject: Re: Fence Pricing

We were ready to start it now, and need to in the area where the wall is finished. If we change to the new style, it would start as soon as new materials come in. But we would like to start it as soon as possible

Sent from my iPhone

On Mar 26, 2019, at 8:22 AM, Kahley Gilbert <KGilbert@cityofmoore.com> wrote:

Day,

Kahley Gilbert

From: Ben Fletcher <BFletcher@meshekengr.com>
Sent: Thursday, March 14, 2019 5:52 PM
To: Clifford Miller
Cc: Kahley Gilbert
Subject: RE: Little river Park Drainage Improvements

Received.

Again, the details included in the plans were from the manufacturer of the wall, and were prepared in light of the geotechnical investigation that had been done for the site.

Ben Fletcher, PE, LSI
Project Manager | Meshek & Associates, LLC
1437 S Boulder Ave Ste 1550 | Tulsa, OK 74119
(918) 392-5620 x205 | (918) 693-5504
Micah 7:7-10

From: Clifford Miller <CMiller@cityofmoore.com>
Sent: Thursday, March 14, 2019 5:42 PM
To: Ben Fletcher <BFletcher@meshekengr.com>
Cc: Kahley Gilbert <KGilbert@cityofmoore.com>
Subject: Fwd: Little river Park Drainage Improvements

Let me know if you receive this

Sent from my iPhone

Begin forwarded message:

> **From:** Greg Trent <gtrent@downeycontracting.com>
> **Date:** March 14, 2019 at 10:27:51 AM CDT
> **To:** cmiller@cityofmoore.com
> **Subject: Fwd: Little river Park Drainage Improvements**
>
> FYI
>
> Sent from my iPhone
> Downey Contracting
> Greg Trent
> Superintendent
> Cell- 580-383-6682
> gtrent@downeycontracting.com
>
> Begin forwarded message:
>
> > **From:** "Jason Swanson, Precision Hardscapes" <jswanson@precisionhardscapesmn.com>
> > **Date:** March 13, 2019 at 3:49:58 PM CDT

To: Day Zimbelman <dzimbelman@downeycontracting.com>, Greg Trent <gtrent@downeycontracting.com>
Subject: Fwd: Little river Park Drainage Improvements

Fellas,
Below is Marty Gray Engineering's reasoning behind using all Aggregate backfill. This is a river situation that will on a regular basis take on massive amounts of water which is why its necessary to use the clean crushed aggregate so it doesn't create Hydrostatic pressure.
Thanks,

Jason Swanson
Vice President - Precision Hardscapes, Inc
412-245-6425
jswanson@precisionhardscapesmn.com

---------- Forwarded message ---------
From: **Marty** <grayengineeringllc@usfamily.net>
Date: Wed, Mar 13, 2019 at 3:08 PM
Subject: Re: Little river Park Drainage Improvements
To: Jason Swanson, Precision Hardscapes <jswanson@precisionhardscapesmn.com>

Good morning Mr. Swanson,

The use of rock in the backfill of the retaining wall for the Little River Park Drainage Improvements helps the retaining wall in 2 different ways. First it improves the properties of the retain soils for the wall, second it helps with the hydrostatic pressure of the water during high water levels.

Using on-site clay soils will lead to a overturning failure of the retaining wall from soil and water pressures.

Remember to place rip rap at the bottom of the walls to prevent erosion of the retaining wall base due to water in the channel.

Marty A. Gray, PE
Gray Engineering, LLC