



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

www.GarverUSA.com

### Contract Modification Request

MODIFICATION REQUEST NO: CMR-056R.1

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 11.18.16

The following modification(s) to the Contract are hereby requested (use additional pages if required):

# APPROVED

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	\$29,523.85	This Contract Modification (Add/Deduct)	Days: 0
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>11.18.16</u>		Date: <u>12/1/16</u>	



November 18, 2016

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-056R.1 Odor Control System C Underground Duct Conflicts

Dear Mark,

Archer Western offers a total revised price of **\$29,523.85** for the extra labor and materials used to overcome the unforeseen conflicts while installing the Odor Control System C underground duct. This work was performed on a Time & Material Basis. See attached cost breakdown followed by T&M sheets for further detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
S. Skaggs  
B. Robbins  
D. Nine

**CMR-056R.1**

**Date:** November 18, 2016

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Summary Detail of Complete CMR									
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS	
<b>Summary</b>									
Duct C1	1	LS	\$3,747.66						
Duct C3	1	LS	\$1,174.71					\$3,747.66	
Duct C5 & C6	1	LS	\$20,045.02					\$1,174.71	
Duct C7	1	LS	\$1,083.80					\$20,045.02	
System C Drain Line	1	LS	\$3,472.66					\$1,083.80	
Blower 5 FRP Pipe	1	LS	\$904.69					\$3,472.66	
<b>SUBTOTALS:</b>				\$ -	\$ -	\$ -	\$ -	\$ 29,523.85	
PAYROLL BURDEN @ 55% OF LABOR				\$ -				\$ -	
EQUIPMENT OPERATING EXPENSE @ 45%						\$ -		\$ -	
Per Diem HR \$4.00								\$ -	
<b>SUBTOTALS:</b>				\$ -	\$ -	\$ -	\$ -	\$ 29,523.85	
15% OH&P on AWC work less Unit Price Work								\$ -	
5% OH&P on subs								\$ -	
3% BOND & INSURANCE								\$ -	
<b>TOTAL AMOUNT OF THIS REQUEST</b>									

**CMR-056R.1**

**Date:** November 18, 2016

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Unforeseen Underground conditions/conflicts while laying Odor Control System C ALPO Duct Line *C1 and Gravity Thickener Drain Repair*

	DESCRIPTION	CRAFT	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>										
Laborer Amounts (changed to 47MH as discussed in second meeting)										
PD	Joseph Simmons	FM/Oper	10.5	MH	\$ 21.50	\$ 225.75				\$ 225.75
	Robert Ridenour	Foreman	5.5	MH	\$ 17.00	\$ 93.50				\$ 93.50
	Robert James	Laborer	10.0	MH	\$ 14.50	\$ 145.00				\$ 145.00
	Samir Williams	Laborer	18.0	MH	\$ 15.50	\$ 279.00				\$ 279.00
	Matthew Combs	Laborer	8	MH	\$ 16.00	\$ 128.00				\$ 128.00
	Danny Hernandez	Laborer	6.0	MH	\$ 14.00	\$ 84.00				\$ 84.00
	Asa Vanderburg	Laborer	5.0	MH	\$ 13.00	\$ 65.00				\$ 65.00
						\$ -				\$ -
<b>SUBCONTRACTOR:</b>										
									\$ -	\$ -
<b>MATERIALS:</b>										
	12" Restraint Joint C-900 Pipe		20	LF	\$ 37.51		\$ 750.20			\$ 750.20
	12" 90 degree fitting CELDI		1	EA	\$ 225.24		\$ 225.24			\$ 225.24
	12" mega lugs w/ accessories		2	EA	\$ 140.74		\$ 281.48			\$ 281.48
	SS 3/4"x4" T-Bolts		16	EA	\$ 11.689		\$ 187.02			\$ 187.02
	Concrete		1	YD	\$ 94.00		\$ 94.00			\$ 94.00
							\$ -			\$ -
<b>Equipment:</b>										
	CAT 430 Backhoe		2	HR	\$ 35.51			\$ 71.02		\$ 71.02
<b>SUBTOTALS:</b>						\$ 1,020.25	\$ 1,537.94	\$ 71.02	\$ -	\$ 2,629.21
PAYROLL BURDEN @ 55% OF LABOR						\$ 561.14				\$ 561.14
EQUIPMENT OPERATING EXPENSE @ 45%								\$ 31.96		\$ 31.96
Per Diem 10.5 HR \$4.00										\$ 42.00
<b>SUBTOTALS:</b>						\$ 1,581.39	\$ 1,537.94	\$ 102.98	\$ -	\$ 3,264.31
15% OH&P on AWC work less Unit Price Work										\$ 483.35
5% OH&P on subs										\$ -
3% BOND & INSURANCE										
<b>TOTAL AMOUNT OF THIS REQUEST</b>										<b>\$3,747.66</b>

**CMR-056R.1**

Date: November 18, 2016

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Unforeseen Underground conditions/conflicts while laying Odor Control System C ALPO Duct Line C3

	DESCRIPTION	CRAFT	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>										
PD	Joseph Simmons	FM/Oper	5.0	MH	\$ 21.50	\$ 107.50				\$ 107.50
	Robert Ridenour	Foreman	9.0	MH	\$ 17.00	\$ 153.00				\$ 153.00
	Samir Williams	Laborer	9.0	MH	\$ 15.50	\$ 139.50				\$ 139.50
	Matthew Combs	Laborer	8.0	MH	\$ 16.00	\$ 128.00				\$ 128.00
	Asa Vanderburg	Laborer	3.0	MH	\$ 13.00	\$ 39.00				\$ 39.00
<b>SUBCONTRACTOR:</b>										
									\$ -	\$ -
<b>MATERIALS:</b>										
							\$ -			\$ -
							\$ -			\$ -
							\$ -			\$ -
<b>Equipment:</b>										
	CAT 430 Backhoe		3	HR	\$ 35.51			\$ 88.78		\$ 88.78
<b>SUBTOTALS:</b>						\$ 567.00	\$ -	\$ 88.78	\$ -	\$ 655.78
PAYROLL BURDEN @ 55% OF LABOR						\$ 311.85				\$ 311.85
EQUIPMENT OPERATING EXPENSE @ 45%								\$ 39.95		\$ 39.95
Per Diem 4.0 HR \$4.00										\$ 16.00
<b>SUBTOTALS:</b>						\$ 878.85	\$ -	\$ 128.72	\$ -	\$ 1,023.57
15% OH&P on AWC work less Unit Price Work										\$ 151.14
5% OH&P on subs										\$ -
3% BOND & INSURANCE										
<b>TOTAL AMOUNT OF THIS REQUEST</b>										\$1,174.71

CMR-056R.1

Date: November 18, 2016

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

CHANGE DESCRIPTION:

Unforeseen Underground conditions/conflicts while laying Odor Control System C ALPO Duct Line **C5 & C6**

	DESCRIPTION	CRAFT	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>										
PD	David Argumaniz	Assist. Super	23.0		\$ 45.00	\$ 1,035.00				\$ 1,035.00
PD	Esteban Gonzales (Steve)	Foreman	55.5		\$ 23.00	\$ 1,276.50				\$ 1,276.50
PD	Kieth Cochran	Laborer	60.0		\$ 15.00	\$ 900.00				\$ 900.00
	Jonathan Apona	Laborer	57.0		\$ 14.00	\$ 798.00				\$ 798.00
	Dwight Simmons	Laborer	60.5		\$ 14.00	\$ 847.00				\$ 847.00
	Joe Solensky	Field Eng.	1		\$ 30.00	\$ 30.00				\$ 30.00
<b>SUBCONTRACTOR:</b>										
									\$ -	\$ -
<b>MATERIALS:</b>										
5/18/16	45 Deg. 6in DIP Fittings		4	EA	\$ 63.015		\$ 252.06			\$ 252.06
5/18/16	6in Mega lugs for PVC w/ Bolts & Accessories		8	EA	\$ 72.64		\$ 581.12			\$ 581.12
5/18/16	6in C900 Pipe		20	FT	\$ 6.96		\$ 139.20			\$ 139.20
6/28/16	Flow Fill		7	CY	\$ 75.00		\$ 525.00			\$ 525.00
6/13/16	16in PVC Sch40 22.5 deg Fittings (Fortline)		4	EA	\$ 258.0275		\$ 1,032.11			\$ 1,032.11
	16in PVC Sch40 22.5 deg Fittings (Ferguson)		4	EA	\$ 342.8400		\$ 1,371.36			\$ 1,371.36
6/13/16	PVC Primer/Cement		1	GAL	\$ 65.00		\$ 65.00			\$ 65.00
5/5/16	1-1/2" #57 Stone & Trucking		12	TN	\$ 18.25		\$ 219.00			\$ 219.00
5/15/16	6in C900 Pipe		30	FT	\$ 6.96		\$ 208.80			\$ 208.80
5/5/16	6" 22.5deg DIP Fittings		3	EA	\$ 61.29		\$ 183.87			\$ 183.87
5/5/16	6" PVC Megalugs		8	EA	\$ 41.98		\$ 335.84			\$ 335.84
5/16/16	PVC Primer/Cement		1	GAL	\$ 65.00		\$ 65.00			\$ 65.00
5/16/16	16in PVC Sch40 45 deg Fittings		2	EA	\$ 250.43		\$ 500.86			\$ 500.86
							\$ -			\$ -
<b>Equipment:</b>										
	L-90 Loader		1	HR	\$ 56.82			\$ 56.82		\$ 56.82
	CAT 430 Backhoe		11.5	HR	\$ 35.51			\$ 408.37		\$ 408.37
	Walk Behind Compator		1	HR	\$ 21.31			\$ 21.31		\$ 21.31
	Mini-Excavator (for all duct lines)		11	Day	\$ 200.00			\$ 2,200.00		\$ 2,200.00
<b>SUBTOTALS:</b>						\$ 4,886.50	\$ 5,479.22	\$ 2,686.50	\$ -	\$ 13,052.22
PAYROLL BURDEN @ 55% OF LABOR						\$ 2,687.58				\$ 2,687.58
EQUIPMENT OPERATING EXPENSE @ 45%								\$ 1,208.92		\$ 1,208.92
Per Diem 138.5 HR \$4.00										\$ 554.00
<b>SUBTOTALS:</b>						\$ 7,574.08	\$ 5,479.22	\$ 3,895.42	\$ -	\$ 17,502.71
15% OH&P on AWC work less Unit Price Work										\$ 2,542.31
5% OH&P on subs										\$ -
3% BOND & INSURANCE										\$ -
<b>TOTAL AMOUNT OF THIS REQUEST</b>										\$20,045.02

CMR-056R.1

Date: November 18, 2016

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

CHANGE DESCRIPTION:

Unforeseen Underground conditions/conflicts while laying Odor Control System C ALPO Duct Line **C7**

	DESCRIPTION	CRAFT	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>										
PD	David Argumanlz	Assist. Super	1.0	MH	\$ 45.00	\$ 45.00				\$ 45.00
PD	Esteban Gonzales (Steve)	Foreman	3.0	MH	\$ 23.00	\$ 69.00				\$ 69.00
PD	Kieth Cochran	Laborer	3.0	MH	\$ 15.00	\$ 45.00				\$ 45.00
	Dwight Simmons	Laborer	3.0	MH	\$ 14.00	\$ 42.00				\$ 42.00
<b>SUBCONTRACTOR:</b>										
									\$ -	\$ -
<b>MATERIALS:</b>										
5/31/16	16in 45deg PVC Fittings		2	EA	\$ 270.77		\$ 541.54			\$ 541.54
5/31/16	PVC Primer/Cement		1	GAL	\$ 65.00		\$ 65.00			\$ 65.00
<b>Equipment:</b>										
								\$ -		\$ -
<b>SUBTOTALS:</b>						\$ 201.00	\$ 606.54	\$ -	\$ -	\$ 807.54
PAYROLL BURDEN @ 55% OF LABOR						\$ 110.55				\$ 110.55
EQUIPMENT OPERATING EXPENSE @ 45%										\$ -
Per Diem 7.0 HR \$4.00										\$ 28.00
<b>SUBTOTALS:</b>						\$ 311.55	\$ 606.54	\$ -	\$ -	\$ 946.09
15% OH&P on AWC work less Unit Price Work										\$ 137.71
5% OH&P on subs										\$ -
3% BOND & INSURANCE										\$ -
<b>TOTAL AMOUNT OF THIS REQUEST</b>										\$1,083.80

CMR-056R.1

Date: November 18, 2016

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Installation of System C Humidification Vessel Drain Line to MH West of Digester No.4

	DESCRIPTION	CRAFT	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>										
PD	David Argumaniz	Assist. Super	4		\$ 45.00	\$ 180.00				\$ 180.00
PD	Esteban Gonzales (Steve)	Foreman	18		\$ 23.00	\$ 414.00				\$ 414.00
	Rob Ridenour	Foreman	3		\$ 17.00	\$ 51.00				\$ 51.00
	Jesse Minor	Laborer	3		\$ 14.25	\$ 42.75				\$ 42.75
PD	Kieth Cochran	Laborer	15		\$ 15.00	\$ 225.00				\$ 225.00
	Dwight Simmons	Laborer	19		\$ 14.00	\$ 266.00				\$ 266.00
	Joe Solensky	Field Eng.	1		\$ 30.00	\$ 30.00				\$ 30.00
<b>SUBCONTRACTOR:</b>										
									\$ -	\$ -
<b>MATERIALS:</b>										
5/16/16	#57 Stone & Trucking		3.5	TN	\$ 18.25		\$ 63.88			\$ 63.88
5/23/16	1-1/2" ODOT Type A Base		5.0	TN	\$ 18.50		\$ 92.50			\$ 92.50
5/16/16	2in PVC Pipe		30	FT	\$ 1.03		\$ 30.90			\$ 30.90
5/23/16	2in PVC Pipe		40	FT	\$ 1.03		\$ 41.20			\$ 41.20
5/16/16	4in Hub Drain		1	EA	\$ 161.25		\$ 161.25			\$ 161.25
5/16/16	4x2 PVC Bushing		1	EA	\$ 7.00		\$ 7.00			\$ 7.00
5/16/16	2" PVC 90		1	EA	\$ 2.50		\$ 2.50			\$ 2.50
5/23/16	2" PVC 90		1	EA	\$ 2.50		\$ 2.50			\$ 2.50
5/16/16	2" PVC 45		1	EA	\$ 2.50		\$ 2.50			\$ 2.50
5/23/16	2" PVC 45		1	EA	\$ 2.50		\$ 2.50			\$ 2.50
5/23/16	Grout		1	BAG	\$ 14.29		\$ 14.29			\$ 14.29
							\$ -			\$ -
<b>Equipment:</b>										
	CAT 430 Backhoe		2	HR	\$ 35.51			\$ 71.02		\$ 71.02
	Walk Behind Compator		1	HR	\$ 21.31			\$ 21.31		\$ 21.31
	Jumping Jack Compactor		1	DAY	\$ 80.00			\$ 80.00		\$ 80.00
	Core Drill for 3in Core		1	EA	\$ 65.00			\$ 65.00		\$ 65.00
	Concrete Saw		2	DAY	\$ 87.00			\$ 174.00		\$ 174.00
<b>SUBTOTALS:</b>						\$ 1,208.75	\$ 421.02	\$ 411.33	\$ -	\$ 2,041.10
PAYROLL BURDEN @ 55% OF LABOR						\$ 664.81				\$ 664.81
EQUIPMENT OPERATING EXPENSE @ 45%								\$ 185.10		\$ 185.10
Per Diem 37.0 HR \$4.00										\$ 148.00
<b>SUBTOTALS:</b>						\$ 1,873.56	\$ 421.02	\$ 596.43	\$ -	\$ 3,039.01
15% OH&P on AWC work less Unit Price Work										\$ 433.65
5% OH&P on subs										\$ -
3% BOND & INSURANCE										\$ -
<b>TOTAL AMOUNT OF THIS REQUEST</b>										\$3,472.66





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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-061R.1

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 3.1.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

# Approved As Noted

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	<del>\$73,874.66</del> <b>\$65,308.72</b>	This Contract Modification (ADD)	Days: 0
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>3.1.17</u>		Date: <u>3/10/2017</u>	



March 1, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-061R.1 Site Lighting Bases

Dear Mark,

Archer Western offers a total revised price of **\$73,974.66** to furnish and install light pole bases associated Field Order FO-E01 issued on 5.25.16. It has been determined that existing light pole bases cannot be re-used based on one or more of the following;

- existing bolt pattern not matching new poles.
- size of existing anchors does not meet requirement of new poles
- projection of anchors not sufficient for new poles
- required anchor embedment deeper than existing slab.
- light pole needing to meet code requirements for class 1 div 2.

It is understood that the previous time request for this work is rejected and the Owner will not assess Liquidated Damages for this work.

Please note that pricing within does not include demo of existing concrete bases.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

CMR- 061R.1

Date: March 1, 2017

Project: Norman WRF Phase II Improvements  
Owner: Norman Utilities Authority  
Contractor: Archer Western Construction  
Engr: Garver

**CHANGE DESCRIPTION:**

New Site Light Pole Bases per FO-E01

DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTAL#
LUMP SUM								
New Concrete Bases (spread footing)	31	EA	<del>2,920.77</del>	\$2,543.99				\$78,863.69
Contractors 28% of New Concrete Bases	(8)	EA	<del>5,233.74</del>	\$2,543.99				(\$20,351.92)
Slab Manning	15	EA	\$ 483.13					\$ 7,246.95
						\$ -		\$ -
TOTAL AMOUNT OF THIS REQUEST								\$65,308.72

Time Extension not required- Owner will not acces LO's based on this work.

\$65,308.72

See Revisions on Following  
Page

REVISED Light Pole Base Unit Price

Date: March 1, 2017

Project: Mountain WRF Phase II Improvements  
 Owner: Northern Utilities Authority  
 Contractor: A. J. Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Unit Price for Spread Footing Light Pole Base

DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>								
New Base								
Excavate Light Pole Bases	4	MH	\$ 22.00	\$ 88.00				\$ 88.00
Install Spread Base	1	MH	\$ 22.00	\$ 22.00				\$ 22.00
Rebar/Install/Pour Light Pole Bases (3 Men @ 8 Hrs) (1 Bases)	16	MH	\$ 22.00	\$ 352.00				\$ 352.00
Set Anchor Bolts/Template (2 Men @ 4 Hrs)	2	MH	\$ 22.00	\$ 44.00				\$ 44.00
Install Light Pole Bases (2 Men @ 4 Hrs)	2	MH	\$ 22.00	\$ 44.00				\$ 44.00
Survey/Layout	0.5	MH	\$ 50.00	\$ 25.00				\$ 25.00
<b>SUBCONTRACTOR:</b>								
City Capital Florida		LS	\$ 745.00				\$ 745.00	\$ 745.00
<b>MATERIALS:</b>								
Rebar	1	LS	\$ 125.00		\$ 125.00			\$ 125.00
Concrete	2.3	CY	\$ 100.00		\$ 230.00			\$ 230.00
Grout	1	LS	\$ 80.00		\$ 80.00			\$ 80.00
Gravel (or Filler)	0.75	TN	\$ 25.00		\$ 18.75			\$ 18.75
Form Material/Equipment	1	EA	\$ 50.00		\$ 50.00			\$ 50.00
<b>Equipment:</b>								
430 Excavator (Excavator)	4	HR	\$ 69.38			\$ 277.50		\$ 277.50
Backhoe Loader	4	HR	\$ 10.65			\$ 42.60		\$ 42.60
<b>SUBTOTALS:</b>								
				\$ 575.00	\$ 503.75	\$ 320.10	\$ 745.00	\$ 2,143.85
PAYROLL BURDEN @ 55% OF LABOR				\$ 316.25				\$ 316.25
EQUIPMENT OPERATING EXPENSE @ 45% Per Diam (\$4/MH)				\$ 144.05				\$ 144.05
<b>SUBTOTALS:</b>								
15% OHP on AWC work				\$ 1,035.30	\$ 503.75	\$ 320.10	\$ 745.00	\$ 2,604.15
8% OHP on subs								\$ 178.07
5% BOND & INSURANCE								\$ 32.25
<b>TOTAL AMOUNT OF THIS REQUEST</b>								<b>\$2,814.57</b>

CHANGE DESCRIPTION										
Revised Unit Price for Spread Footing Light Pole Base										
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS	COMMENTS:	
<b>LABOR:</b>										
New Base										
Excavate Light Pole Bases	4	MH	\$ 22.00	\$ 88.00				\$ 88.00	Previous CMR had a rate of \$30 for survey. Also note these rates do not reflect actual rates being paid to those performing the work.	
Install Gravel Base	1	MH	\$ 22.00	\$ 22.00				\$ 22.00		
Rebar/Form/Pour Light Pole Bases	16	MH	\$ 22.00	\$ 352.00				\$ 352.00		
Set Anchor Bolts/Template	2	MH	\$ 22.00	\$ 44.00				\$ 44.00		
Strip/Rub Light Pole Bases	2	MH	\$ 22.00	\$ 44.00				\$ 44.00		
Survey/Layout	0.5	MH	\$ 30.00	\$ 15.00				\$ 15.00		
<b>SUBCONTRACTOR:</b>										
Oil Capital Electric	1	LS	\$ 745.00				\$ 745.00	\$ 745.00		
<b>MATERIALS:</b>										
Rebar	1	LS	\$ 125.00		\$ 125.00			\$ 125.00		
Concrete	2.0	CY	\$ 100.00		\$ 200.00			\$ 200.00	1.65 CY required based on detail	
Grout	1	LS	\$ 80.00		\$ 80.00			\$ 80.00		
Gravel (6" Base)	0.75	TN	\$ 25.00		\$ 18.75			\$ 18.75		
Form Material/Sonotube	1	EA	\$ 50.00		\$ 50.00			\$ 50.00		
<b>EQUIPMENT</b>										
430 Excavator (Excavate)	2	HR	\$ 69.38			\$ 138.76		\$ 138.76	Reduced (some bases do not require excavation) Owner does not agree to pay for truck (not required to perform the work)	
Pickup Truck	0	HR	\$ 10.65			\$ -		\$ -		
<b>SUBTOTALS:</b>				\$ 565.00	\$ 473.75	\$ 138.76	\$ 745.00	\$ 1,903.76		
				PAYROLL BURDEN @ 55% OF LABOR				\$ 310.75	\$ 310.75	
				EQUIPMENT OPERATING EXPENSE @ 45%				\$ 62.44	\$ 62.44	
				PER DIEM (\$4/MH)				\$ -	\$ -	N/A
<b>SUBTOTALS:</b>				\$ 875.75	\$ 473.75	\$ 201.20	\$ 745.00	\$ 2,276.95		
15% OH&P on AWC work								\$ 229.79		
5% OH&P on subs								\$ 37.25		
3% BOND & INSURANCE								\$ -		
<b>TOTAL AMOUNT OF THIS REQUEST</b>								\$ 2,543.99		

See photo on next page



Excavation reduced from 4 hours to 2 hours per base. Photo is an example of bases that did not require any excavation.

# Revised Concrete Base

AW agrees to use this price per base on slab

CHANGE DESCRIPTION									
18" x 18" x 18" concrete bases on top of existing slab									
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS	COMMENTS:
<b>LABOR:</b>									
Foreman	1	MH	\$ 22.00	\$ 22.00				\$ 22.00	Previous CMR (28R-2) was approved as a lump sum, and not as a basis for unit price
Drill Dowels and Set Anchors	2	MH	\$ 22.00	\$ 44.00				\$ 44.00	
FRP 18"x18"x18" Base	2	MH	\$ 22.00	\$ 44.00				\$ 44.00	
Survey/Layout	0.25	MH	\$ 22.00	\$ 5.50				\$ 5.50	
<b>SUBCONTRACTOR:</b>									
<b>MATERIALS:</b>									
Rebar/Epoxy	1	LS	\$ 80.00		\$ 80.00			\$ 80.00	Labor reductions based on assessment of actual effort required and ability to develop templates to improve efficiency. All lights can be surveyed once for as-builds.
Concrete	0.25	CY	\$ 100.00		\$ 25.00			\$ 25.00	
Grout	1	LS	\$ 80.00		\$ 80.00			\$ 80.00	Reduced from 2.3 CY based on detail dimensions (if formed per detail, 1.65 CY required)
Form Material/Sonotube	1	EA	\$ 25.00		\$ 25.00			\$ 25.00	Reduced from \$50 - can easily develop a template to be reused
Small Tools (\$1/MH)	5	MH	\$ 1.00		\$ 5.00			\$ 5.00	Reflects reduction in labor; minimal materials consumed
<b>EQUIPMENT</b>									
<b>SUBTOTALS:</b>									
PAYROLL BURDEN @ 55% OF LABOR				\$ 115.50	\$ 215.00	\$ -	\$ -	\$ 330.50	Truck is not required to perform the work or associated with the work.
EQUIPMENT OPERATING EXPENSE @ 45% PER DIEM (\$4/MH)				\$ 63.53		\$ -		\$ 63.53	
SUBTOTALS:				\$ 179.03	\$ 215.00	\$ -	\$ -	\$ 394.03	N/A
15% OH&P on AWC work								\$ 59.10	N/A
5% OH&P on subs								\$ -	
3% BOND & INSURANCE								\$ -	
<b>TOTAL AMOUNT OF THIS REQUEST</b>								\$ 453.13	

Request of 1 Day of time per 2 bases is rejected - Owner will not assess Liquidated Damages for this work.



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-065R.1

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 2.22.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

CMR Proposed Amount or Price	Proposed Contract Times
This Contract Modification (CREDIT) <b>\$43,322.47</b>	This Contract Modification (ADD) Days: 0
Contractor	Engineer
By: <u>Zack Biggs</u>	By: <u>Kyle Kruger</u>
Date: <u>2.22.17</u>	Date: <u>3/10/2017</u>





February 22, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-065R.1 Credit to Delete the Interior Coatings at Secondary Clarifier Splitter Box B

Dear Mark,

Archer Western offers a credit of **\$43,322.47** to delete the interior coatings at the Secondary Clarifier Splitter Box B. See attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

CMR-065

Date: February 22, 2017

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

**Credit to Delete Interior Coatings in Secondary Clarifier Splitter Box B**

DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>								
Pump and Clean Splitter Box	-30	MH	\$ 22.00	\$ (660.00)				\$ (660.00)
		MH		\$ -				\$ -
<b>SUBCONTRACTOR:</b>								
Dobb's Coating Systems	1	LS					\$ (41,860.00)	\$ (41,860.00)
<b>MATERIALS:</b>								
					\$ -			\$ -
					\$ -			\$ -
<b>Equipment:</b>								
6" Pump	(1)	Day	\$ 303.08			\$ (303.08)		\$ (303.08)
<b>SUBTOTALS:</b>				\$ (660.00)	\$ -	\$ (303.08)	\$ (41,860.00)	\$ (42,823.08)
PAYROLL BURDEN @ 55% OF LABOR				\$ (363.00)				\$ (363.00)
EQUIPMENT OPERATING EXPENSE @ 45%						\$ (136.39)		\$ (136.39)
Per Diem (\$4/MH)								\$ -
<b>SUBTOTALS:</b>				\$ (1,023.00)	\$ -	\$ (439.47)	\$ (41,860.00)	\$ (43,322.47)
15% OH&P on AWC work less Unit Price Work								
5% OH&P on subs								
3% BOND & INSURANCE								
<b>TOTAL AMOUNT OF THIS REQUEST</b>								<b>(543,322.47)</b>



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-067

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 11.17.16

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

# APPROVED

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	<b>\$3,545.90</b>	This Contract Modification (ADD)	Days:
Contractor		Engineer	
By: <u>Jack Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>11.17.16</u>		Date: <u>11/29/16</u>	



November 17, 2016

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-067 Centrifuge CIP Supply Water Line

Dear Mark,

Archer Western offers a total price of \$3,545.90 to add a two inch water line to supply the Flushing and Clean-In-Place System for the new Centrifuges. This line was not shown in the contract drawing and through RFI-164 Archer Western was provided a supply location and routing. See attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

**CMR-067**

**Date:** November 17, 2016

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Add 2" Sch. 80 PVC pipe, fittings & valves for CIP Supply water for Centrifuges

DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>								
Install 2" PVC Pipe (200 LF at 5 LF/MH)	40	MH	\$ 22.00	\$ 880.00				\$ 880.00
Supports (Clamps and Hangers 1ea/ MH)	20	MH	\$ 22.00	\$ 440.00				\$ 440.00
<b>SUBCONTRACTOR:</b>								
		LS					\$ -	\$ -
<b>MATERIALS:</b>								
PVC - Pipe, Fittings & Valves (SCH80) w/ Supports	1	LS						\$ 1,037.39
<b>Equipment:</b>								
		WK				\$ -		\$ -
		WK				\$ -		\$ -
<b>SUBTOTALS:</b>				\$ 1,320.00	\$ 1,037.39	\$ -	\$ -	\$ 2,357.39
				\$ 726.00				\$ 726.00
				\$ -				\$ -
<b>SUBTOTALS:</b>				\$ 2,046.00	\$ 1,037.39	\$ -	\$ -	\$ 3,083.39
15% OH&P on AWC work								\$ 462.51
5% OH&P on subs								
3% BOND & INSURANCE								
<b>TOTAL AMOUNT OF THIS REQUEST</b>								\$3,545.90



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-068

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 11.17.16

The following modification(s) to the Contract are hereby requested (use additional pages if required):

# Approved As Noted

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

Owner has agreed to approve the request as is - as part of a negotiated acceptance for the work in CMR-056A and elimination of CMR-064A

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	\$15,562.52	This Contract Modification (ADD)	0 Days:
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>11.17.16</u>		Date: <u>12/5/2016</u>	



November 17, 2016

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-068 Sludge Removal from Existing Aeration Basin

Dear Mark,

Archer Western presents a total price of **\$15,562.52** for the removal of 819.08 cubic yards of sludge from the Existing Aeration Basin. See attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

**CMR-068**

**Date: November 17, 2016**

**Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver**

**CHANGE DESCRIPTION:**

Sludge removal from Existing Aeration Basin									
	DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>									
			MH		\$ -				\$ -
			MH		\$ -				\$ -
<b>SUBCONTRACTOR:</b>									
								\$ -	\$ -
<b>MATERIALS:</b>									
	Sludge Removal from Basins 1-3	581.08	CY	\$ 19.00		\$ 11,040.52			\$ 11,040.52
	Sludge Removal from Influent Trough	71	CY	\$ 19.00		\$ 1,349.00			\$ 1,349.00
	Sludge Removal from Effluent Trough	167	CY	\$ 19.00		\$ 3,173.00			\$ 3,173.00
<b>Equipment:</b>									
							\$ -		\$ -
<b>SUBTOTALS:</b>					\$ -	\$ 15,562.52	\$ -	\$ -	\$ 15,562.52
PAYROLL BURDEN @ 55% OF LABOR					\$ -				\$ -
EQUIPMENT OPERATING EXPENSE @ 45%							\$ -		\$ -
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>					\$ -	\$ 15,562.52	\$ -	\$ -	\$ 15,562.52
15% OH&P on AWC work less Unit Price Work									
5% OH&P on subs									\$ -
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									<b>\$15,562.52</b>





THIS DRAWING IS A CONTRACT DOCUMENT AND IS NOT A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL GOVERN BY THE CONTRACT DOCUMENTS, THE CONTRACT BETWEEN THE CONTRACTOR AND THE OWNER, THE SPECIFICATIONS AND THE DRAWINGS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL GOVERN BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

REV	DATE	DESCRIPTION



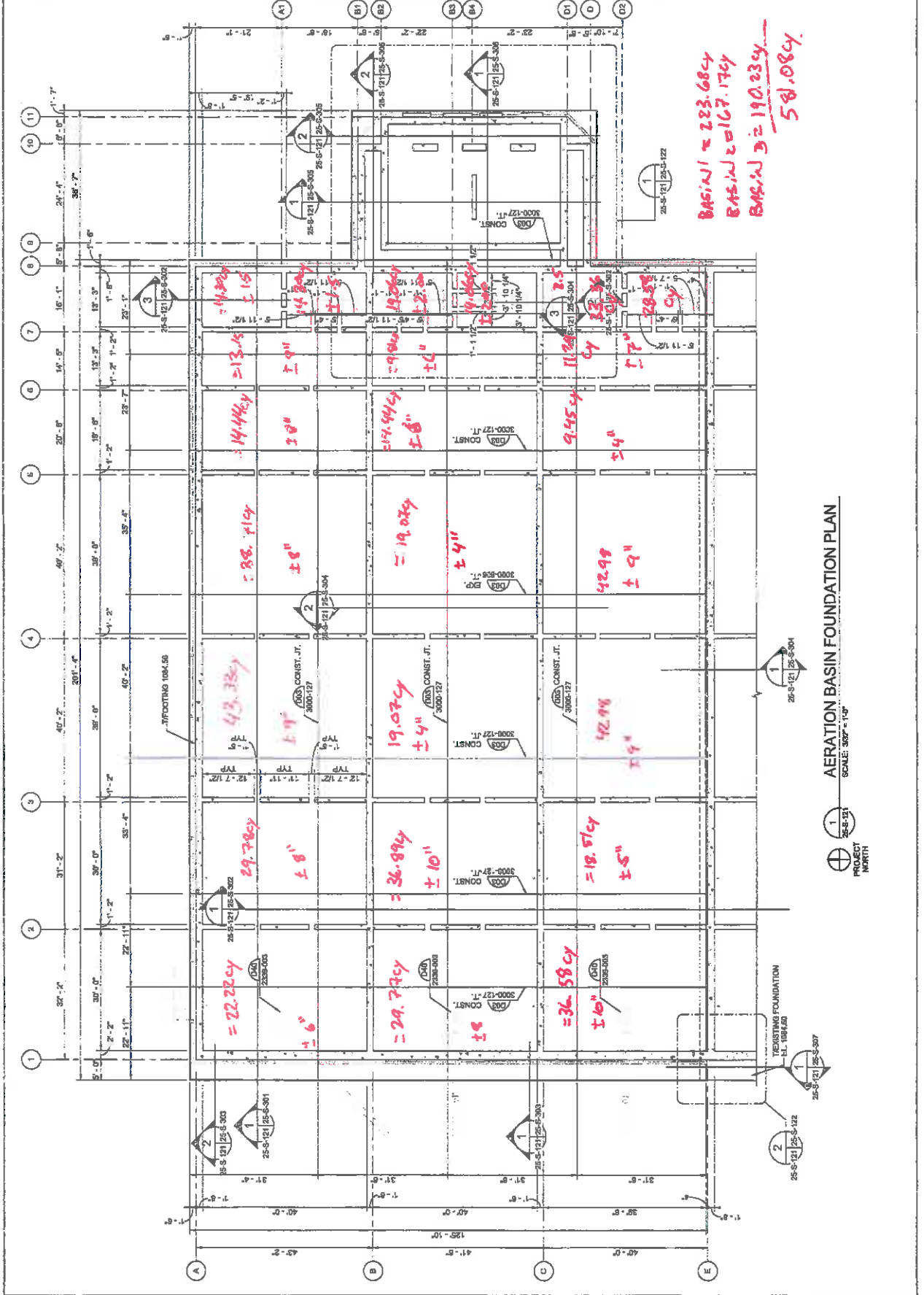
THE NORMAN UTILITIES AUTHORITY  
NORMAN WRF  
NORMAN, OK  
PHASE 2 IMPROVEMENTS

AGRATION BASIN  
FOUNDATION PLAN

JOB NO.: 1207661  
DATE: JAN 2014  
DESIGNED BY: XAM  
DRAWN BY: EGR

DRAWING NUMBER  
25-S-121

SHEET NUMBER  
145



AGRATION BASIN FOUNDATION PLAN  
SCALE: 3/32" = 1'-0"



PROJECT NORTH



PROJECT NORTH



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

www.GarverUSA.com

### Contract Modification Request

MODIFICATION REQUEST NO: CMR-070R.2

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 3.7.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

## Approved As Noted

Attachments (List Supporting Documents):

**Comments:**

- 1) 7" of asphalt is to be provided in all areas receiving new paving, even if the existing paving is less than 7".
- 2) Owner agrees to add 10 days to the contract for work associated with the ribbon curb, no additional time will be given for asphalt paving.
- 3) The drive around the storm holding ponds needs to be adequately prepared prior to installation of the 3" asphalt layer.
- 4) Concrete and asphalt must be approved mixes prior to placement and batch tickets must match approved designs.

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	<b>\$46,648.79</b>	This Contract Modification (ADD)	Days: <del>20</del> <b>10</b>
Contractor		Engineer	
By: <u>David Nune</u>		By: <u>Kyle Kruger</u>	
Date: <u>3.7.17</u>		Date: <u>3/17/17</u>	



March 7, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Expansion  
CMR 70--Asphalt Pavement and Ribbon Curb Modifications Final Proposal

Dear Mark,

Please find the attached CMR for added Asphalt Paving and ribbon curb for the above referenced project for the amount of **\$46,648.79**.

The area that this work includes is shown in the attached paving drawings. This proposed paving plan includes all the new concrete paving and asphalt paving as originally shown. It also includes areas for mill and overlay where applicable. The added 7" of new asphalt is **ONLY** for areas where the existing asphalt remains but is not possible to mill and overlay (spotty). The CMR also includes the credit for the concrete cap above new utilities in roadway, the add for new ribbon curb at the new asphalt paving locations, a shared cost to replace the asphalt that was removed during ductbank and utility installation (concrete cap interpretation), and 3" of new S5 at lagoons.

Archer Western requests an additional 10 days for new ribbon curb and 10 days for the additional asphalt removal and replacement to perform the paving mods.

If you have any questions regarding this pricing, please contact me.

Sincerely,

*David Nine*

David M. Nine  
Senior Project Manager  
Archer Western Contractors

Cc: File  
J. Polak  
Z. Biggs  
B. Robbins  
J. Edwards

**CMR 70— Asphalt Paving Mods- REVISED 3.07.17 Per Garver's Comments and Meeting and Added Ribbon Curb**

**Date:** March 7, 2017

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Cost Breakdown is for scope of work including credit for concrete cap at all line crossings, add to remove and replace remaining asphalt in Non-Mill areas per AW Paving Plan (see separate plan)								
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>								
Deduct 6" Concrete Cap above Trench In Roadway (New and Existing Pavement)								\$ -
Place Concrete Cap (430 CY)	(430)	MH	\$ 22.00	\$ (9,460.00)				\$ (9,460.00)
Finish Concrete Cap (23220 SF)	(116)	MH	\$ 22.00	\$ (2,552.00)				\$ (2,552.00)
Excavate/Remove 18" Additional Width (393 CY)	(131)	MH	\$ 25.00	\$ (3,275.00)				\$ (3,275.00)
								\$ -
Remove Existing Asphalt (1080 SY at 7"- 216 CY)								
Demo and Remove Existing Asphalt Paving (216 CY at 7"- 3 CY/MH)	72	MH	\$ 24.00	\$ 1,728.00				\$ 1,728.00
Load Asphalt Haul Off (216 CY at 6 CY/MH)	36	MH	\$ 24.00	\$ 864.00				\$ 864.00
<b>Concrete Ribbon Curb</b>								
ADD Concrete Ribbon Curb (18" wide x 7" Thick with wire)	2428	LF	\$ 16.00				\$ 38,848.00	\$ 38,848.00
<b>SUBCONTRACTOR:</b>								
Haul Off Asphalt (216 CY at 10 CY/LD) w/ Dump Fees	22	LDS	\$ 175.00				\$ 3,850.00	\$ 3,850.00
Add 7" Asphalt Paving (where existing asphalt remains)	1080	SY	\$ 72.00				\$ 77,760.00	\$ 77,760.00
Add 7" Asphalt Paving At pipe trench (3000 SY of existing pavement replacement. AW willing to split quantity in trench due to concrete cap detail interpretation- 3000CY-1080CY= 1920CY, split 2 ways is 960 SY)	960	SY	\$ 72.00				\$ 69,120.00	\$ 69,120.00
Delete Mill and Overlay at Lagoon Road (1270 LF at 12' Wide)	(1693)	SY	\$ 15.60				\$ (26,410.80)	\$ (26,410.80)
Delete Mill and Overlay at Trench Area	(1080)	SY	\$ 15.80				\$ (16,848.00)	\$ (16,848.00)
Add 3" S5 Asphalt Paving at Lagoons	1893	SY	\$ 20.00				\$ 33,860.00	\$ 33,860.00
Delete 7" Asphalt Paving at Ribbon Curb (18" x 2428')	(405)	SY	\$ 72.00				\$ (29,160.00)	\$ (29,160.00)
Deduct Rebar Placement at Cap	(66641)	LBS	\$ 0.20				\$ (13,328.20)	\$ (13,328.20)
(#5 at 1.043#/LF..... Cap has 2.87#/SF at 23220 SF= 57,400#)								
<b>MATERIALS:</b>								
Concrete	(430)	CY	\$ 100.00		\$ (43,000.00)			\$ (43,000.00)
Rebar for Cap	(66641)	LBS	\$ 0.43		\$ (28,655.63)			\$ (28,655.63)
<b>Equipment:</b>								
Loader (Load Trucks)	30	HR	\$ 56.82			\$ 1,704.60		\$ 1,704.60
Excavator (removal)	30	HR	\$ 85.23			\$ 2,556.90		\$ 2,556.90
<b>SUBTOTALS:</b>				\$ (12,695.00)	\$ (71,655.63)	\$ 4,261.50	\$ 137,691.00	\$ 57,601.87
				\$ (6,982.25)				\$ (6,982.25)
						\$ 1,917.68		\$ 1,917.68
<b>SUBTOTALS:</b>				\$ (19,677.25)	\$ (71,655.63)	\$ 6,179.18	\$ 137,691.00	\$ 52,537.30
15% OH&P on AWC work								\$ (12,773.06)
5% OH&P on subs								\$ 6,884.55
3% BOND & INSURANCE								
<b>TOTAL AMOUNT OF THIS REQUEST</b>								\$ 46,648.79

~~Archer Western requests 10 additional calendar days for additional asphalt removal and new paving.~~  
**Archer Western requests 10 additional calendar days for ribbon curb**



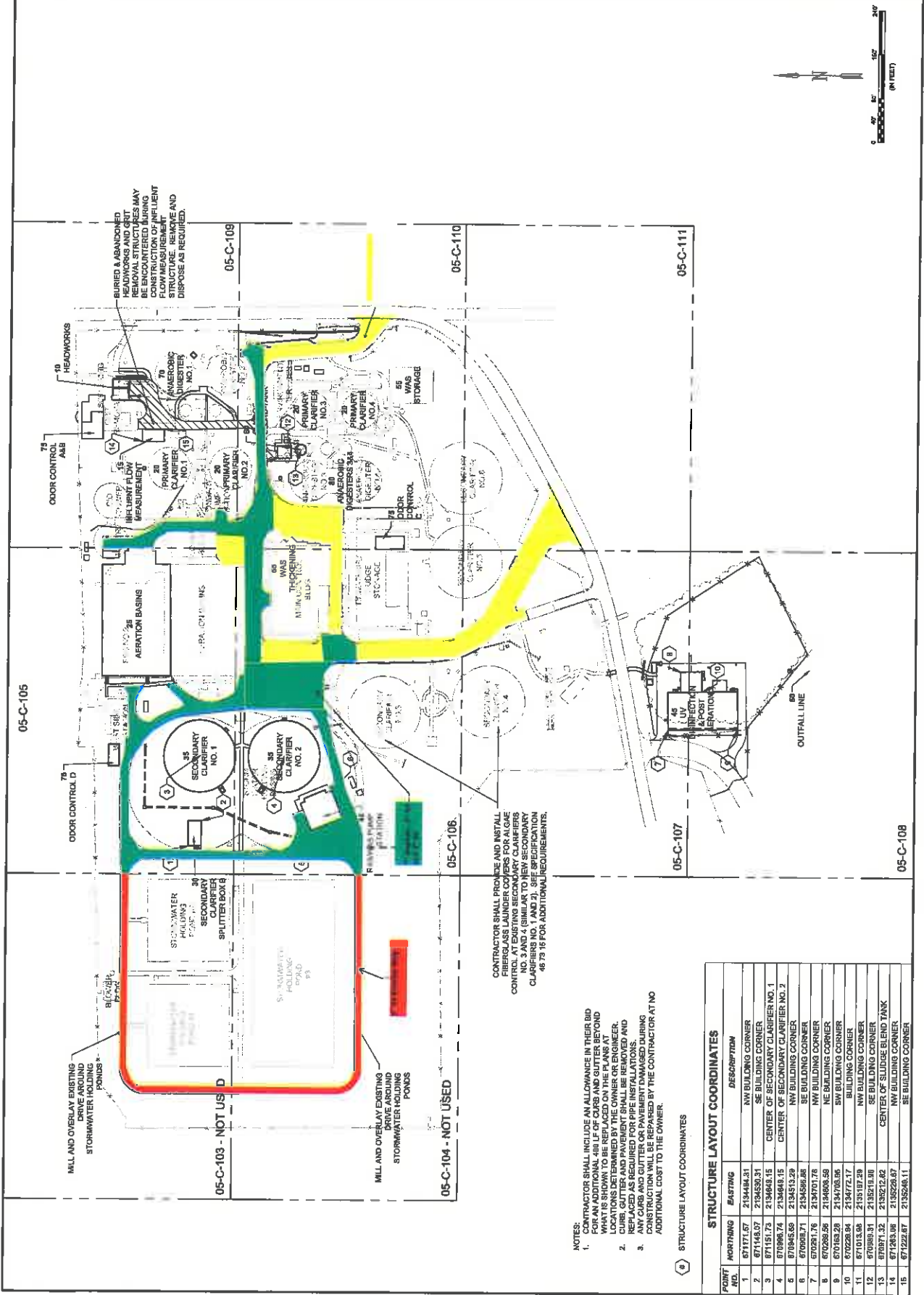
THIS DRAWING IS A CONFORMED DRAWING AND IS NOT A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL DIMENSIONS AND LOCATIONS SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES.

REV.	DATE	DESCRIPTION

THE NORMAN UTILITIES AUTHORITY  
NORMAN, OK  
NORMAN WRF  
PHASE 2 IMPROVEMENTS

OVERALL SITE PLAN  
PROPOSED

JOB NO.: 12079061  
DATE: JAN. 2014  
DESIGNED BY: CGB  
DRAWN BY: JTB  
CHECKED BY: JTB  
SCALE: AS SHOWN  
DRAWING NUMBER  
**05-C-102**  
SHEET NUMBER  
**035**



CONTRACTOR SHALL PROVIDE AND INSTALL FIBERGLASS LAUNDRY COVERS FOR ALGAE CONTROL ON CLARIFIERS NO. 2 AND 4 (SIMILAR TO NEW SECONDARY CLARIFIERS NO. 1 AND 2). SEE SPECIFICATION 46 73 16 FOR ADDITIONAL REQUIREMENTS.

- NOTES:
- CONTRACTOR SHALL INCLUDE AN ALLOWANCE IN THEIR BID FOR THE REMOVAL OF ALL EXISTING DRIVE PAVEMENT AND MILL AND OVERLAY EXISTING DRIVE AROUND STORMWATER HOLDING PONDS.
  - LOCATIONS DETERMINED BY THE OWNER OR ENGINEER. CURB, GUTTER AND PAVEMENT SHALL BE REMOVED AND REINSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS REQUIRED FOR PIPE INSTALLATIONS.
  - ANY CURB AND GUTTER REMOVAL DURING CONSTRUCTION WILL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

STRUCTURE LAYOUT COORDINATES

POINT	NORTHING	EASTING	DESCRIPTION
1	67171.67	21344.31	NW BUILDING CORNER
2	67146.97	21345.31	SE BUILDING CORNER
3	67151.73	21346.15	CENTER OF SECONDARY CLARIFIER NO. 1
4	67096.78	21346.15	CENTER OF SECONDARY CLARIFIER NO. 2
5	67045.59	21345.13	NW BUILDING CORNER
6	67009.71	21345.68	SE BUILDING CORNER
7	67029.76	21347.01	NW BUILDING CORNER
8	67029.59	21346.96	SE BUILDING CORNER
9	67029.84	21347.17	BUILDING CORNER
10	67015.98	21351.97	NW BUILDING CORNER
11	67009.31	21352.18	SE BUILDING CORNER
12	67015.32	21352.18	CENTER OF SLUDGE BLEND TANK
13	67126.08	21352.87	NW BUILDING CORNER
14	67122.87	21352.87	SE BUILDING CORNER

ISSUED FOR CONSTRUCTION



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

www.GarverUSA.com

### Contract Modification Request

MODIFICATION REQUEST NO: CMR-071

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 1.20.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

# Approved As Noted

Attachments (List Supporting Documents):

After further discussion, additional days approved cover substantial and final completion.

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	<b>\$11,380.55</b>	This Contract Modification (ADD)	Days: <b>33</b>
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>1.20.17</u>		Date: <u>3/22/17</u>	



January 20, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-071 Progressive Cavity Pump Control Instrumentation

Dear Mark,

Archer Western offers a total price of **\$11,380.55** to furnish and install a Capacitive Level Probe on each Centrifuge solids discharge hopper to control the speed of the Progressive Cavity Pumps associated per RFI-165 & approved submittal within. See attached breakdown for detail.

Archer Western requests an additional 33 calendar days be added to substantial completion or exemption from the substantial completion deadline for the centrifuge and its ancillary equipment. This is due to the time taken to receive the instruments after release upon 12/21/16 approval from Garver, in result Alfa Laval could not proceed with commissioning the centrifuge equipment until the level instrument is installed to regulate solids discharge flow.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

CMR-071

Date: January 20, 2017

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Funishing & Installation of Level Indicating Probe for Progressive Cavity Pump Speed Control.									
	DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>									
	Weld SS Pipe and Flange to SS Hopper of Centrifuges	18	MH	\$ 22.00	\$ 396.00				\$ 396.00
	Supervision / Coordination	9	MH	\$ 25.00	\$ 225.00				\$ 225.00
<b>SUBCONTRACTOR:</b>									
	Oil Capital Electric	1	LS	\$ 2,222.51				\$ 2,222.51	\$ 2,222.51
<b>MATERIALS:</b>									
	Welding Materials(SS rod, Argon, etc)	1	LS	\$ 100.00		\$ 100.00			\$ 100.00
	Stainless Steel Pipe, Flanges (2"), Bolt Kits	1	LS	\$ 95.20		\$ 95.20			\$ 95.20
	Capacitive Level Probe with 90 deg Bend, Commissioning & Warranty	1	LS	\$ 6,934.06		\$ 6,934.06			\$ 6,934.06
	Credit for Solenoid Valves at TWAS Flushing Connections	(2)	EA	\$ 161.88		\$ (323.76)			\$ (323.76)
<b>Equipment:</b>									
	Welding Machine	12	HR	\$ 5.68			\$ 68.16		\$ 68.16
<b>SUBTOTALS:</b>					\$ 621.00	\$ 6,805.50	\$ 68.16	\$ 2,222.51	\$ 9,717.17
PAYROLL BURDEN @ 55% OF LABOR					\$ 341.55				\$ 341.55
EQUIPMENT OPERATING EXPENSE @ 45%							\$ 30.67		\$ 30.67
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>					\$ 962.55	\$ 6,805.50	\$ 98.83	\$ 2,222.51	\$ 10,089.39
15% OH&P on AWC work less Unit Price Work									\$ 1,180.03
5% OH&P on subs									\$ 111.13
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									\$11,380.55





1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-073

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 2.13.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

# APPROVED

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (CREDIT)	\$9,000.00	This Contract Modification (ADD)	Days: 0
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>2.13.2017</u>		Date: <u>3/3/17</u>	



February 13, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-073 Credit for Aluminum Cover Installation on Gravity Thickeners 1-4

Dear Mark,

Archer Western offers a credit of \$9,000.00 to not install the aluminum covers on gravity thickeners 1, 2, 3 & 4. Installation of covers is included in additional work when new gravity thickeners are installed. See attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

**CMR-073**

**Date:** February 13, 2017

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Credit to not install Aluminum covers on Gravity Thickeners 1,2,3 & 4									
	DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>									
	Install Aluminum Covers on Gravity Thickeners 1,2,3&4	-1	LS	\$ 9,000.00	\$ (9,000.00)				\$ (9,000.00)
			MH		\$ -				\$ -
<b>SUBCONTRACTOR:</b>									
								\$ -	\$ -
<b>MATERIALS:</b>									
						\$ -			\$ -
						\$ -			\$ -
<b>Equipment:</b>									
							\$ -		\$ -
<b>SUBTOTALS:</b>					\$ (9,000.00)	\$ -	\$ -	\$ -	\$ (9,000.00)
PAYROLL BURDEN @ 55% OF LABOR					\$ (4,950.00)				
EQUIPMENT OPERATING EXPENSE @ 45%							\$ -		\$ -
Per Dlem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>					\$ (13,950.00)	\$ -	\$ -	\$ -	\$ (9,000.00)
15% OH&P on AWC work less Unit Price Work									
5% OH&P on subs									\$ -
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									<b>(\$9,000.00)</b>



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Norman, OK 73069

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FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-074

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 3.2.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

# APPROVED

Attachments (List Supporting Documents):

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (CREDIT)	\$4,214.28	This Contract Modification (ADD)	Days: 0
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>3.2.2017</u>		Date: <u>3/22/17</u>	



March 2, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-074 Odor Control Systems A/B & D Water Supply and Drain Line

Dear Mark,

Archer Western offers a total price of **\$4,214.28** to furnish and install a water supply line to Odor Control System A/B & D along with the installation of an in-slab drain line at System D. Work was performed on a T&M basis, see attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

**CMR-074**

**Date:** March 2, 2017

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Time and Material to provide a slab drain at System D and a water supply at Systems A/B & D.

	DESCRIPTION	Craft	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>										
	Geral Isaacs	Assist.Super	3	MH	\$ 32.00	\$ 96.00				\$ 96.00
	Ronnie Tubberville	Laborer	3	MH	\$ 14.00	\$ 42.00				\$ 42.00
<b>PD</b>	Brad Tollett	Laborer	5	MH	\$ 18.00	\$ 90.00				\$ 90.00
<b>PD</b>	Armando Ortiz	Foreman	9	MH	\$ 22.00	\$ 198.00				\$ 198.00
	Chris Pacc	Laborer	6	MH	\$ 14.00	\$ 84.00				\$ 84.00
	Matt Combs	Laborer	3	MH	\$ 17.50	\$ 52.50				\$ 52.50
	Josh Yandell	Laborer	3	MH	\$ 14.00	\$ 42.00				\$ 42.00
	Samir Williams	Laborer	6	MH	\$ 16.50	\$ 99.00				\$ 99.00
	Rob Ridenour	Foreman	5	MH	\$ 17.00	\$ 85.00				\$ 85.00
<b>PD</b>	Steve Gonzales	Foreman/Oper	3	MH	\$ 23.00	\$ 69.00				\$ 69.00
	Dwight Simmons	Laborer	5	MH	\$ 15.00	\$ 75.00				\$ 75.00
	Juan Martinez	Laborer	5	MH	\$ 18.00	\$ 90.00				\$ 90.00
<b>SUBCONTRACTOR:</b>										
									\$ -	\$ -
<b>MATERIALS:</b>										
	2" Sch80 PVC Pipe		180	LF	\$ 1.56		\$ 249.60			\$ 249.60
	2" Sch80 90s		12	EA	\$ 2.95		\$ 35.40			\$ 35.40
	4"x2" Tapping Saddle		1	EA	\$ 45.52		\$ 45.52			\$ 45.52
	2" Brass Ball Valve		1	EA	\$ 77.86		\$ 77.86			\$ 77.86
	2" x 2" Brass Nipple		1	EA	\$ 2.50		\$ 2.50			\$ 2.50
	1" Sch80 Tru-union Ball Valve		1	EA	\$ 56.00		\$ 56.00			\$ 56.00
	1" Sch80 PVC Pipe		10	LF	\$ 0.88		\$ 6.80			\$ 6.80
	4" Floor Drain		1	EA	\$ 161.25		\$ 161.25			\$ 161.25
	4"x 2" Sch80 Reducer		1	EA	\$ 29.80		\$ 29.80			\$ 29.80
	2" Sch80 PVC Coupling		1	EA	\$ 5.21		\$ 5.21			\$ 5.21
	Grout		1	BAG	\$ 14.29		\$ 14.29			\$ 14.29
	2" Sch80 Tee		1	EA	\$ 5.04		\$ 5.04			\$ 5.04
	2" x 1" Sch80 Reducer		1	EA	\$ 5.84		\$ 5.84			\$ 5.84
	1" Sch80 90		2	EA	\$ 0.82		\$ 1.64			\$ 1.64
	#57 Stone Bedding		4	TN	\$ 18.25		\$ 73.00			\$ 73.00
	2" Sch80 T/U Ball Valve		1	EA	\$ 63.61		\$ 63.61			\$ 63.61
	Valve Boxes		2	EA	\$ 45.00		\$ 90.00			\$ 90.00
							\$ -			\$ -
<b>Equipment:</b>										
	Volvo EC55 Mini Excavator		1	Day	\$ 338.00			\$ 338.00		\$ 338.00
	CAT 430 Backhoe		9	HR	\$ 35.51			\$ 319.59		\$ 319.59
	Core Drill		1	Day	\$ 93.00			\$ 93.00		\$ 93.00
<b>SUBTOTALS:</b>						\$ 1,022.50	\$ 923.36	\$ 750.59	\$ -	\$ 2,696.45
PAYROLL BURDEN @ 55% OF LABOR						\$ 562.38				\$ 562.38
EQUIPMENT OPERATING EXPENSE @ 45%								\$ 337.77		\$ 337.77
Per Diem (\$4/MH) 17 HRS \$ 4.00						\$ 68.00				\$ 68.00
<b>SUBTOTALS:</b>						\$ 1,652.88	\$ 923.36	\$ 1,088.36	\$ -	\$ 3,664.59
15% OH&P on AWC work less Unit Price Work										\$ 549.69
5% OH&P on subs										\$ -
3% BOND & INSURANCE										
<b>TOTAL AMOUNT OF THIS REQUEST</b>										\$4,214.28



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-075R.1

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 3.23.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

## Approved As Noted

Attachments (List Supporting Documents):

Revised unit price based on submitted  
Totals from subcontractor

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	<del>\$34,776.16</del> <b>\$ 34,095.77</b>	This Contract Modification (ADD)	Days: <b>0</b>
Contractor		Engineer	
By: <u>Zack Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>3.23.17</u>		Date: <u>3/29/2017</u>	



March 23, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-075R.1 North Fence Line Replacement

Dear Mark,

Archer Western offers a total revised price of **\$34,770.19** to demo and replace the plants North Fence line and a small section of the East fence line with gate per the request of the Owner. This price includes replacing existing functional gates and two new 24ft double swing gates. See attached breakdown and drawings for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

*Zach Biggs*

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs



**CMR-075R.1**

**Date:** March 23, 2017

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Demo remaining North & NE section Property Fence and Furnish and Install approximately 1400lf of 6ft New Chain Link Fence with 3 strands of Barb Wire replacement of existing gates and additional 24ft swing gates. See Affordable Fence breakdown for further detail.									
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS	
<b>LABOR:</b>									
		MH		\$ -					\$ -
		MH		\$ -					\$ -
<b>SUBCONTRACTOR:</b>									
Affordable Fence Co.	1	LS	\$ 35,053.00				\$ 35,053.00		\$ 35,053.00
<b>MATERIALS:</b>			\$19.26		(\$ 2,580.84)				(\$ 2,580.84)
AW Credit for Fence taken down for Construction Access	(134)	LF	<del>\$ 45.40</del>		<del>(\$ 6,083.40)</del>				<del>(\$ 6,083.40)</del>
					\$ -				\$ -
<b>Equipment:</b>									
						\$ -			\$ -
<b>SUBTOTALS:</b>				\$ -	<del>(\$ 6,083.40)</del>	\$ -	\$ 35,053.00		<del>\$ 28,969.60</del>
<b>PAYROLL BURDEN @ 55% OF LABOR</b>				\$ -					\$ -
<b>EQUIPMENT OPERATING EXPENSE @ 45%</b>						\$ -			\$ -
<b>Per Diem (\$4/MH)</b>									\$ -
<b>SUBTOTALS:</b>				\$ -	<del>(\$ 6,083.40)</del>	\$ -	\$ 35,053.00		<del>\$ 22,886.20</del>
15% OH&P on AWC work less Unit Price Work									\$ 32,472.16
5% OH&P on subs									<del>\$ 1,750.00</del>
3% BOND & INSURANCE									\$ 1,623.61
<b>TOTAL AMOUNT OF THIS REQUEST</b>									<del>\$ 24,739.77</del>

**\$ 34,095.77**

# AFFORDABLE FENCE CO.

NAME Zach Biggs DATE: 3/20/2017  
 TITLE: Project Manager EMAIL: [zbiggs@walshgroup.com](mailto:zbiggs@walshgroup.com)  
 COMPANY: Archer Western PHONE: 405.406.1165

RE: FENCE BID For: REVISED - Norman WWTP Norman OK

The following bid includes equipment, labor, and materials to...

LOCATION	NORTH FENCE				
DEMO	apx less 1400 lf of existing fence		ADD	\$	2,800.00
ADD ON	back drag and grading for new fence install only		ADD	\$	1,400.00
INSTALL	apx less 1400 lf of 6' tall chain-link w/ 3 stands barbwire	spec	ADD	\$	21,269.00
ADD ON	install vice for from elevation		ADD	\$	1,490.00
INSTALL	1 each - single swing gate	apx 4 ft. opening	ADD	\$	894.00
INSTALL	1 each - single swing gate	apx 9 ft. opening	ADD	\$	1,076.00
INSTALL	2 each - double swing gate	apx 24 ft. opening	ADD	\$	3,126.00
<b>TOTAL</b>					<b>\$ 32,055.00</b>

\$ 19.26 / LF

LOCATION	EAST FENCE				
DEMO	apx less 100 lf of existing fence		ADD	\$	190.00
INSTALL	apx less 100 lf of 6' tall chain-link w/ 3 stands barbwire	spec	ADD	\$	1,519.00
INSTALL	1 each - double swing gate @ east fence	apx 14 ft. opening	ADD	\$	1,289.00
<b>TOTAL</b>					<b>\$ 2,998.00</b>

REPAIR	none	ADD	\$	NONE
UPGRADES	none	ADD	\$	NONE
OPTION	none	ADD	\$	NONE
SUPPLY	none	ADD	\$	NONE

LAYOUT NEW- corners, gates, and fence line to be laid out by GC prior to install  
 bid is based on access with concrete mix truck

NOTES bid is based on notes w/ GC during site walk through

GENERAL \*Proposal is based on normal digging. Concrete Coring, cutting, breaking, jack hammering or removal of obstacles (rock, sand rock, asphalt, trees, shrubs, etc.) exposed or unexposed that prohibit normal installation of fences and/or structures of fences are to be done by others or at additional cost.

MATERIAL to specs / drawings / existing approved submittals

EXCLUDES survey, grading, electricity, painting, permit, locate, personal utilities, sprinklers, pool lines, shop, etc.  
 electric, low voltage, trenching, conduit to be done by others or at additional charge

We propose to install materials listed above in workmanlike manner. The proposal is given with the agreement that when signed by the purchaser and Company representative and accepted by Company management, this proposal becomes a contract, binding on both the purchaser and Company. The purchaser is responsible for the permits, fence location and staking property and/or fence lines. The purchaser is responsible for locating and staking all underground lines including but not limited to: utilities, private lines, septic systems and sprinkler systems, etc. It is further agreed that the work will commence and be completed as Company schedule allows. Excavated soil from the post holes is spread in accordance with standard company procedures. Removal of soil from location is the purchaser's responsibility. Material and labor warranted for one year from date of completion. Liens may be applied to property according to applicable Mechanic's and Material man's Lien statute and other applicable Lien statutes in the event the purchaser fails to pay according to contract terms. The purchaser acknowledges and accepts full responsibility for any liability arising out of completed work by the company. Payment is due on completion

## PROJECT ESTIMATOR

AFFORDABLE FENCE  
 1450 W. ONYX WAY  
 MUSTANG, OK 73064  
 405.313.8458  
[mike@affordablefenceok.com](mailto:mike@affordablefenceok.com)

## Purchaser Signature

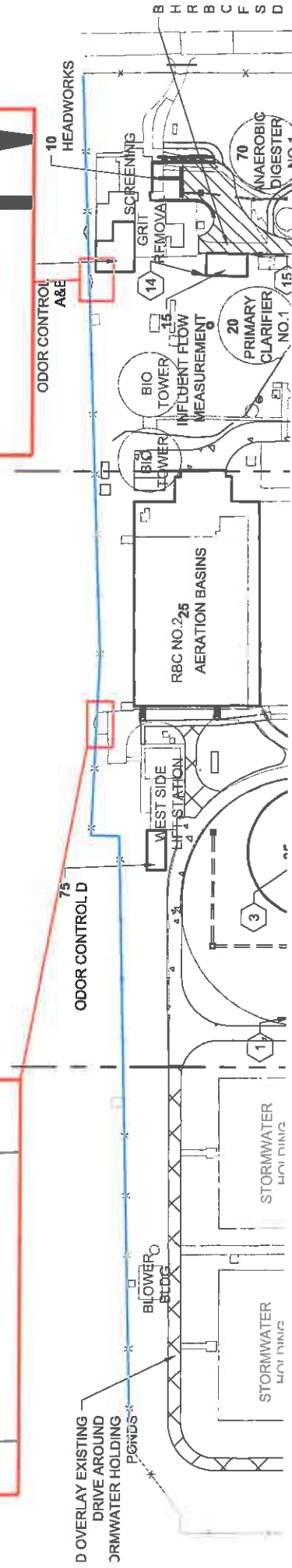
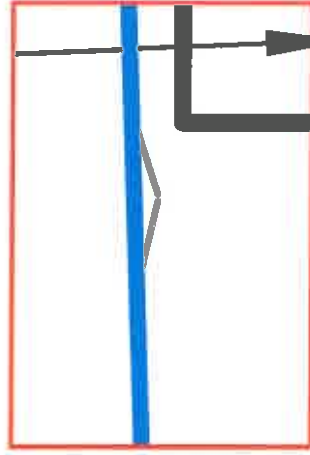
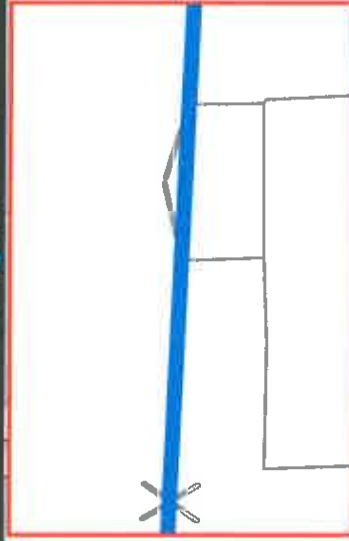
Date

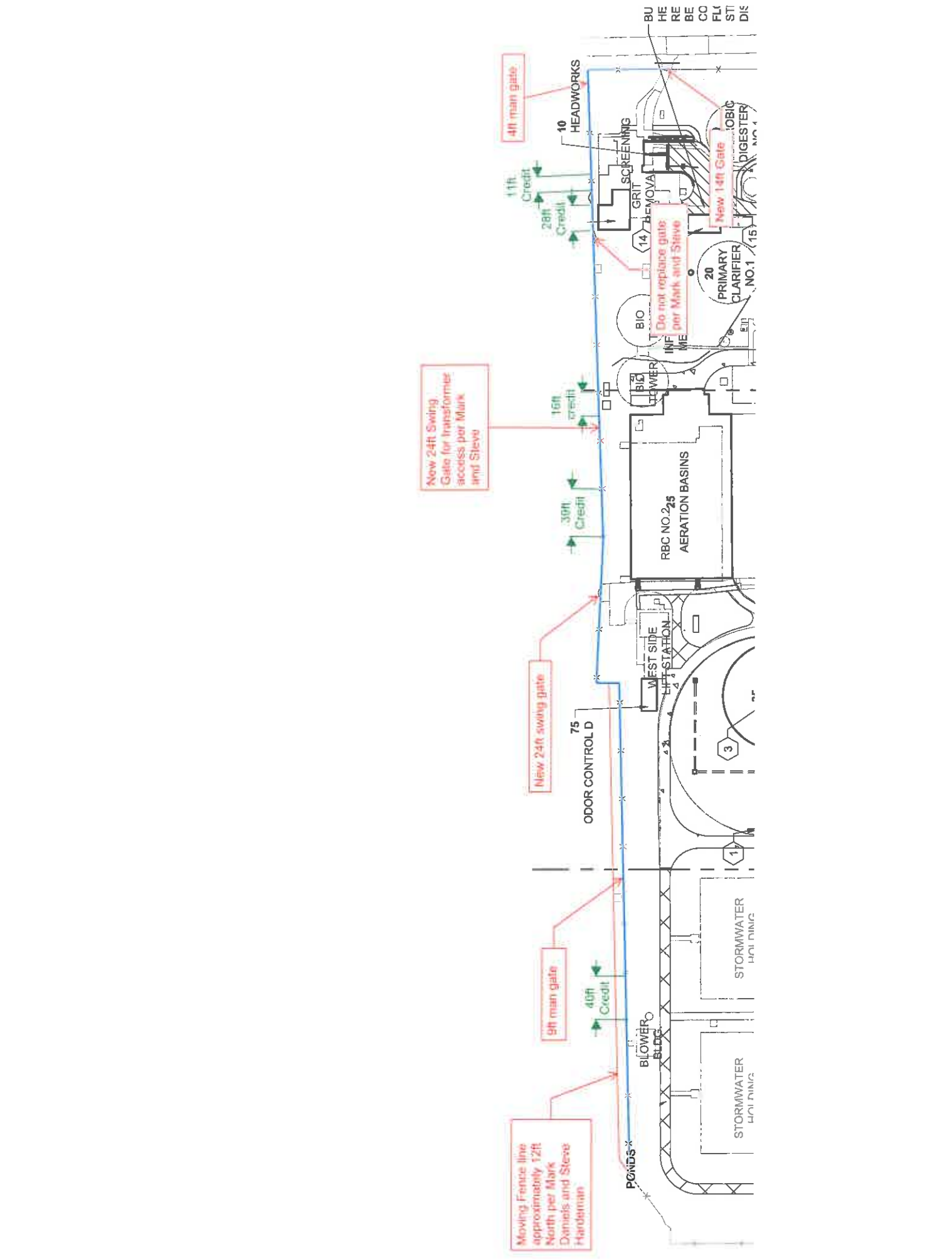
Acceptance of Proposal - the price, specifications and conditions are satisfactory and are hereby accepted. You are Authorized to the work as specified.

Billing Address:



Existing 24ft Gates - photos are from Pre-Construction video.





New 24ft Swing Gate for Transformer access per Mark and Steve

New 24ft swing gate

9ft man gate

Moving Fence line approximately 12ft North per Mark Daniels and Steve Harshman

4ft man gate

New 14ft Gate

Do not replace gate per Mark and Steve

BU  
HE  
RE  
BE  
CO  
FLK  
STT  
DIS

Blower Bldg.

Odor Control D

West Side Lift Station

RBC NO. 225 AERATION BASINS

BIO TOWER

BIO INF ME

PRIMARY CLARIFIER NO. 1

SCREENING

GRIT

HEADWORKS

STORMWATER HOLDING

STORMWATER HOLDING

OBIC DIGESTER NO. 1

11ft Credit

28ft Credit

16ft Credit

30ft Credit

75

1

1

3

14

20

PONDS



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-076R.1

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 3.29.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

# Approved As Noted

Attachments (List Supporting Documents):

Owner has opted to include replacement of the additional 95 ft +/- of old fence. New price reflects add + 5% contractor mark-up.

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	<del>\$ 32,499.61</del> <b>\$ 35,449.76</b>	This Contract Modification (ADD)	Days: 0
Contractor		Engineer	
By: <u>Zack Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>3.29.17</u>		Date: <u>4/20/2017</u>	



March 29, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-076R.1 Main Entrance Cantilever Gates

Dear Mark,

Archer Western offers a total price of **\$33,103.01** to add two new powered cantilever gates at the plants main entrance by request of the Engineer and Owner. See attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

**CMR-076R.1**

Date: March 29, 2017

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Install two power operated cantilever gates with exit detector loop and keypad at Main Entrance of the Norman WRF.

DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>								
Excavate for Gate Operator & Key Pads	4	MH	\$ 25.00	\$ 100.00				\$ 100.00
Form & Reinforce Operator & Key Pads	4	MH	\$ 25.00	\$ 100.00				\$ 100.00
Pour & Strip Operator & Key Pads	4	MH	\$ 25.00	\$ 100.00				\$ 100.00
		MH		\$ -				\$ -
<b>SUBCONTRACTOR:</b>								
All State Fence ( <del>with 95' LF additional option</del> )	1	LS	\$ 23,877.00				\$ 23,877.00	\$ 23,877.00
Oil Capital Electric	1	LS	\$ 6,753.26				\$ 6,753.26	\$ 6,753.26
<b>95 LF additional fence option</b>	<b>1</b>	<b>LS</b>	<b>\$ 2,235.00</b>				<b>\$ 2,235.00</b>	<b>\$ 2,235.00</b>
<b>MATERIALS:</b>								
Form & Reinforcing Materials	1	LS	\$ 100.00		\$ 100.00			\$ 100.00
Concrete	1	CY	\$ 99.00		\$ 99.00			\$ 99.00
					\$ -			\$ -
<b>Equipment:</b>								
CAT 430 Backhoe (excavate/material handling/spoil removal)	3	HR	\$ 35.51			\$ 106.53		\$ 106.53
							\$ 32,865.26	\$ 33,470.79
<b>SUBTOTALS:</b>				\$ 300.00	\$ 199.00	\$ 106.53	<del>\$ 29,630.26</del>	<del>\$ 31,235.79</del>
PAYROLL BURDEN @ 55% OF LABOR				\$ 165.00				\$ 165.00
EQUIPMENT OPERATING EXPENSE @ 45%						\$ 47.94		\$ 47.94
Per Diem (\$44/H)							\$ 32,865.26	\$ 33,683.73
<b>SUBTOTALS:</b>				\$ 465.00	\$ 199.00	\$ 154.47	<del>\$ 29,630.26</del>	<del>\$ 31,448.73</del>
15% OH&P on AWC work less Unit Price Work								\$ 122.77
5% OH&P on subs							\$ 1,643.26	<del>\$ 1,631.54</del>
3% BOND & INSURANCE								
<b>TOTAL AMOUNT OF THIS REQUEST</b>								<del>\$ 33,103.01</del>

**\$ 35,449.76**



# ALL STATE FENCE

'ALL types STATE wide FENCE contractor'

DATE: 03.24.17

PROJECT: Norman WRF Phase 2 Construction

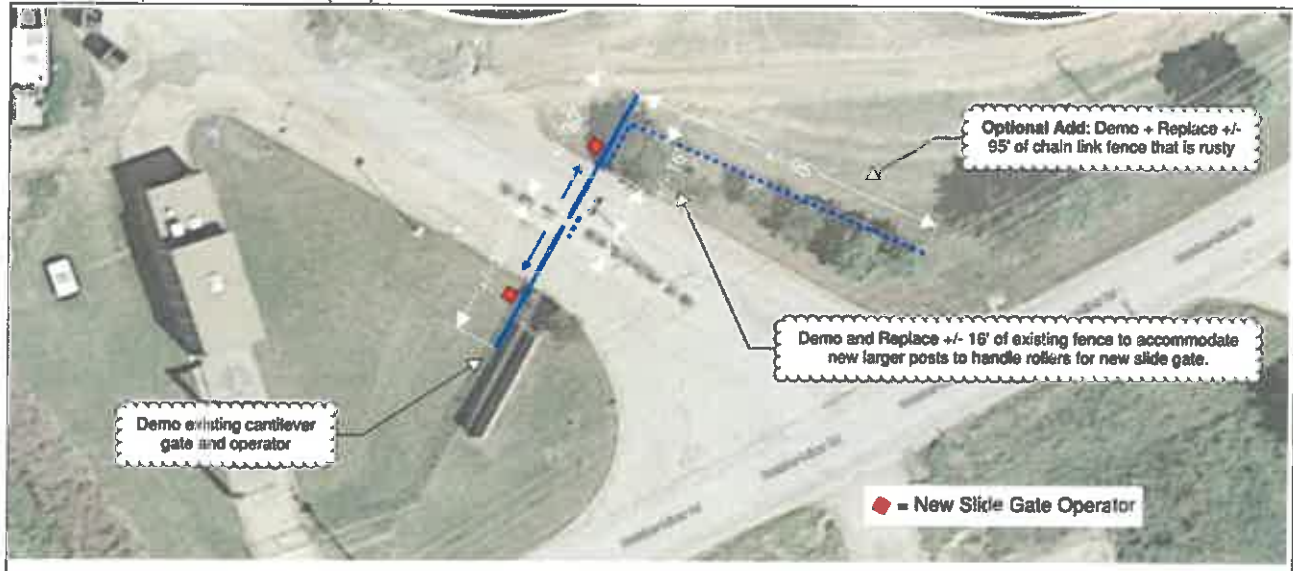
RE: PCO #007 - Revision 1

**DESCRIPTION:** Furnish and Install Qty. (2) 30' cantilevered slide gates at the main entrance. Furnish and install one gate operator (the 2nd operator was included in base contract). Includes demo of existing, single cantilevered gate. Includes modification of existing fence section on East side of entrance to accommodate new gate. Sketch of proposed installation is included below. Optional additional scope is included in the pricing below for the demo and replacement of +/- 95LF of rusty chain link fence on the East side of the entrance drive that appears old and rusty.

The following pricing includes equipment, labor, and materials to:

DESCRIPTION	QTY	UNIT	TOTAL
Furnish and Install Qty. (2) 30' cantilevered slide gates at the main entrance. Includes demo of existing, single cantilevered gate. Includes modification of existing fence section on East side of entrance to accommodate new gate and rollers.	1	\$13,239.00	\$13,239.00
(1) Slide Gate Operator - Installed	1	\$10,638.00	\$10,638.00
		<b>TOTAL</b>	<b>\$23,877.00</b>
Optional Add: Demo & replace +/- 95LF of chain link fence on East side of drive that appears old and rusty. This additional scope is priced to perform during the same mobilization as installation of the slide gates.	1	\$2,235.00	\$2,235.00
		<b>TOTAL w/ Add</b>	<b>\$26,112.00</b>

Sketch of Proposal for Reference (NTS):







**Oil Capital Electric, LLC**  
 37 NE 31st Street  
 Oklahoma City, OK 73105  
 Phone: (405) 840-8998 Fax: (405) 840-9120  
 Oklahoma License No. 1588

## Breakout - Gate Operator

Date: March 7, 2017

Project: Norman WRF Improvements

To: David Nine Change Order: \_\_\_\_\_

Description: \_\_\_\_\_  
 \_\_\_\_\_

Material	Quantity	Cost	Total
3/4 pb grc	110	4.05	\$ 445.50
3/4 pb st conn str	2	40.76	\$ 81.52
3/4 pb st conn 90	2	24.11	\$ 48.22
3/4 st conduit ef	10	3.15	\$ 31.50
12 xhhw cu stranded	546	0.175	\$ 95.55
blue wire nut	4	0.166	\$ 0.66
20a wire termination	8	2.5	\$ 20.00
class a aggregate - ton	12	105	\$ 1,260.00
Expendables	0.05	1982.95	\$ 99.15
			\$ -
		0	\$ 2,082.10

Labor	Hours	Rate	Total
<b>Superintendent</b>	<b>5</b>	<b>90</b>	<b>\$ 450.00</b>
<b>Electrician</b>	<b>34</b>	<b>56.5</b>	<b>\$ 1,921.00</b>
		Subtotal	\$ 2,371.00

Equipment	Quantity	Rate	Total
			\$ -
			\$ -
		Subtotal	\$ -

Subcontractor	Quantity	Rate	Amount
4 saw cut asphalt/6 saw cut concrete	1	750	\$ 750.00
Excavation	1	520	\$ 520.00
		Subtotal	\$ 1,270.00

Bond	1.00%	\$ 57.23	Subtotal Above	\$ 5,723.10
Insurance	2.00%	\$ 114.46	Subtotal Left Column	\$ 1,030.16
Material Taxes	0.00%	\$ -		
Overhead/Profit	15.00%	\$ 858.47		
	0.00%	\$ -	<b>ALL Total</b>	<b>\$ 6,753.26</b>



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

www.GarverUSA.com

### Contract Modification Request

MODIFICATION REQUEST NO: CMR-077

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 3.23.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

# APPROVED

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	\$21,526.59	This Contract Modification (ADD)	Days: 0
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>3.23.17</u>		Date: <u>4/6/2017</u>	



March 23, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-077 Conduit Sealoffs for Existing Aeration Basin

Dear Mark,

Archer Western offers a total price of \$21,526.59 for the installation of sealoffs required to bring the existing conduit up to the requirements of the newly classified area at the existing aeration basin per RFI-123. This work was performed on a T&M basis, see attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

CMR-077

Date: March 23, 2017

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Installation of Sealoffs required to bring the existing conduit up to the requirements of the newly classified area at the Existing Aeration Basin									
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS	
<b>LABOR:</b>									
		MH		\$ -					\$ -
		MH		\$ -					\$ -
<b>SUBCONTRACTOR:</b>									
Oil Capital Electric	1	LS	\$ 20,501.51				\$ 20,501.51		\$ 20,501.51
<b>MATERIALS:</b>									
					\$ -				\$ -
					\$ -				\$ -
<b>Equipment:</b>									
						\$ -			\$ -
<b>SUBTOTALS:</b>				\$ -	\$ -	\$ -	\$ 20,501.51		\$ 20,501.51
PAYROLL BURDEN @ 55% OF LABOR				\$ -					\$ -
EQUIPMENT OPERATING EXPENSE @ 45%						\$ -			\$ -
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>				\$ -	\$ -	\$ -	\$ 20,501.51		\$ 20,501.51
15% OH&P on AWC work less Unit Price Work									\$ -
5% OH&P on subs									\$ 1,025.08
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									<b>\$21,526.59</b>



**Oil Capital Electric, LLC**  
 37 NE 31st Street  
 Oklahoma City, OK 73105  
 Phone: (405) 840-8998 Fax: (405) 840-9120  
 Oklahoma License No. 1588

## Breakout - RFI #123 T&M

Date: March 22, 2017

Project: Norman WRF Improvements

To: David Nine Change Order: \_\_\_\_\_

Description: Installation of sealoffs required to bring the existing conduit up to the requirements of the newly classified area

Material	Quantity	Cost	Total
Lump Sum Material (backup included)	1	\$ 6,021.58	\$ 6,021.58
Expendables	0.05	\$ 6,021.58	\$ 301.08
			\$ -
			\$ -
			\$ -
		\$ -	\$ 6,322.66

Labor	Hours	Rate	Total
Superintendent	24	\$ 90.00	\$ 2,160.00
Electrician	151	\$ 56.50	\$ 8,531.50
		Subtotal	\$ 10,691.50

Equipment	Quantity	Rate	Total
Truck	0.5	\$ 720.00	\$ 360.00
			\$ -
		Subtotal	\$ 360.00

Subcontractor	Amount
	\$ -
	\$ -
	Subtotal
	\$ -

Bond	2.00%	\$ 347.48	Subtotal Above	\$ 17,374.16
Insurance	1.00%	\$ 173.74	Subtotal Left Column	\$ 3,127.35
Material Taxes	0.00%	\$ -		
Overhead/Profit	15.00%	\$ 2,606.12		
	0.00%	\$ -	<b>ALL Total</b>	<b>\$ 20,501.51</b>



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

www.GarverUSA.com

### Contract Modification Request

MODIFICATION REQUEST NO: CMR-078

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 3.15.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

# APPROVED

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (CREDIT)	<b>\$7,410.63</b>	This Contract Modification (ADD)	Days: <b>0</b>
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>3.15.17</u>		Date: <u>3/22/17</u>	



March 15, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-078 Credit for Existing AB Sludge Removal

Dear Mark,

Archer Western offers a credit of \$7,410.63 to leave the sludge & grit in the drying beds that was removed from the existing Aeration Basin in lieu of removing and land applying. See attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

**CMR-078**

Date: March 15, 2017

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Credit for not land applying the 819cy of sludge/grit removed from the Existing Aeration Basins and leave in drying beds.									
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS	
<b>LABOR:</b>									
Operator for Front End Loader	-41	MH	\$ 22.00	\$ (902.00)					\$ (902.00)
		MH		\$ -					\$ -
<b>SUBCONTRACTOR:</b>									
							\$ -		\$ -
<b>MATERIALS:</b>									
Total Trucking 10cy Bobtails (2 loads/hr)	(41)	HR	\$ 70.00		\$ (2,870.00)				\$ (2,870.00)
					\$ -				\$ -
<b>Equipment:</b>									
Volvo L90	(41)	HR	\$ 52.86			\$ (2,167.26)			\$ (2,167.26)
<b>SUBTOTALS:</b>				\$ (902.00)	\$ (2,870.00)	\$ (2,167.26)	\$ -		\$ (5,939.26)
PAYROLL BURDEN @ 55% OF LABOR				\$ (496.10)					\$ (496.10)
EQUIPMENT OPERATING EXPENSE @ 45%						\$ (975.27)			\$ (975.27)
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>				\$ (1,398.10)	\$ (2,870.00)	\$ (3,142.53)	\$ -		\$ (7,410.63)
15% OH&P on AWC work less Unit Price Work									
5% OH&P on subs									\$ -
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									<b>(\$7,410.63)</b>





1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

www.GarverUSA.com

### Contract Modification Request

MODIFICATION REQUEST NO: CMR-079

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 3.23.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

# APPROVED

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	<b>\$74,292.31</b>	This Contract Modification (ADD)	<b>Days: 0</b>
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>3.23.17</u>		Date: <u>6/13/17</u>	



March 23, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-079 Power Supply from New MCC to Existing MCC in Main Control Building

Dear Mark,

Archer Western offers a total price of \$74,292.31 for the installation of a 600 amp breaker, transformer, disconnect, conduit and feeder cable from 55MCC01 to MCC-CTRL-BLDG per RFI-107. This work was performed on a T&M basis, see attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

*Zach Biggs*

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

CMR-079

Date: March 23, 2017

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Installation of 600 amp breaker, transformer, disconnect, conduit and feeder cable from 55MCC01 to MCC-CTRL-BLDG per RFI 107									
	DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>									
			MH		\$ -				\$ -
			MH		\$ -				\$ -
<b>SUBCONTRACTOR:</b>									
	Oil Capital Electric	1	LS	\$ 70,754.58				\$ 70,754.58	\$ 70,754.58
<b>MATERIALS:</b>									
						\$ -			\$ -
						\$ -			\$ -
<b>Equipment:</b>									
							\$ -		\$ -
<b>SUBTOTALS:</b>					\$ -	\$ -	\$ -	\$ 70,754.58	\$ 70,754.58
PAYROLL BURDEN @ 55% OF LABOR					\$ -				\$ -
EQUIPMENT OPERATING EXPENSE @ 45%							\$ -		\$ -
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>					\$ -	\$ -	\$ -	\$ 70,754.58	\$ 70,754.58
15% OH&P on AWC work less Unit Price Work									\$ -
5% OH&P on subs									\$ 3,537.73
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									<b>\$74,292.31</b>



**Oil Capital Electric, LLC**  
 37 NE 31st Street  
 Oklahoma City, OK 73105  
 Phone: (405) 840-8998 Fax: (405) 840-9120  
 Oklahoma License No. 1588

## Breakout - RFI #107 Control Building

Date: March 22, 2017

Project: Norman WRF Improvements

To: David Nine Change Order: \_\_\_\_\_

Description: Installation of 600 amp breaker, transformer, disconnect, conduit & feeder cable from 55MCC01 to MCC-CTRL-BLDG

Material	Quantity	Cost	Total
Lump Sum Material (backup included)	1	\$ 11,839.49	\$ 11,839.49
Lump Sum Switchgear (backup included)	1	\$ 28,189.00	\$ 28,189.00
Expendables	0.05	\$ 11,839.49	\$ 591.97
			\$ -
			\$ -
			\$ 40,620.46

Labor	Hours	Rate	Total
Superintendent	40	\$ 90.00	\$ 3,600.00
Electrician	269	\$ 56.50	\$ 15,198.50
		Subtotal	\$ 18,798.50

Equipment	Quantity	Rate	Total
Stepladder	3	\$ 17.33	\$ 51.99
Compression Tool	0.25	\$ 222.75	\$ 55.69
Platform Cart	2	\$ 34.65	\$ 69.30
Hammer Drill	1	\$ 99.00	\$ 99.00
Bandsaw	1	\$ 49.50	\$ 49.50
Electric 555 Bender	0.5	\$ 347.50	\$ 173.75
Label Printer	0.5	\$ 14.85	\$ 7.43
Reel Stand	1	\$ 24.75	\$ 24.75
KO Set Hydraulic	0.15	\$ 74.25	\$ 11.14
		Subtotal	\$ 542.54

Subcontractor	Amount
	\$ -
	\$ -
Subtotal	\$ -

Bond	1.00%	\$ 599.62	Subtotal Above	\$ 59,961.50
Insurance	2.00%	\$ 1,199.23	Subtotal Left Column	\$ 10,793.07
Material Taxes	0.00%	\$ -		
Overhead/Profit	15.00%	\$ 8,994.23		
	0.00%	\$ -	<b>ALL Total</b>	<b>\$ 70,754.58</b>



CONFORMED DRAWING  
 THE DRAWING IS A CONFORMED DRAWING AND IS NOT A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERIFY THE CONTRACT DOCUMENTS SHALL GOVERN.

REV.	DATE	DESCRIPTION	BY



THE NORMAN UTILITIES AUTHORITY  
 NORMAN, OK  
 PHASE 2 IMPROVEMENTS

CENTRIFUGAL  
 SWM3031  
 ONE-LINE DIAGRAM

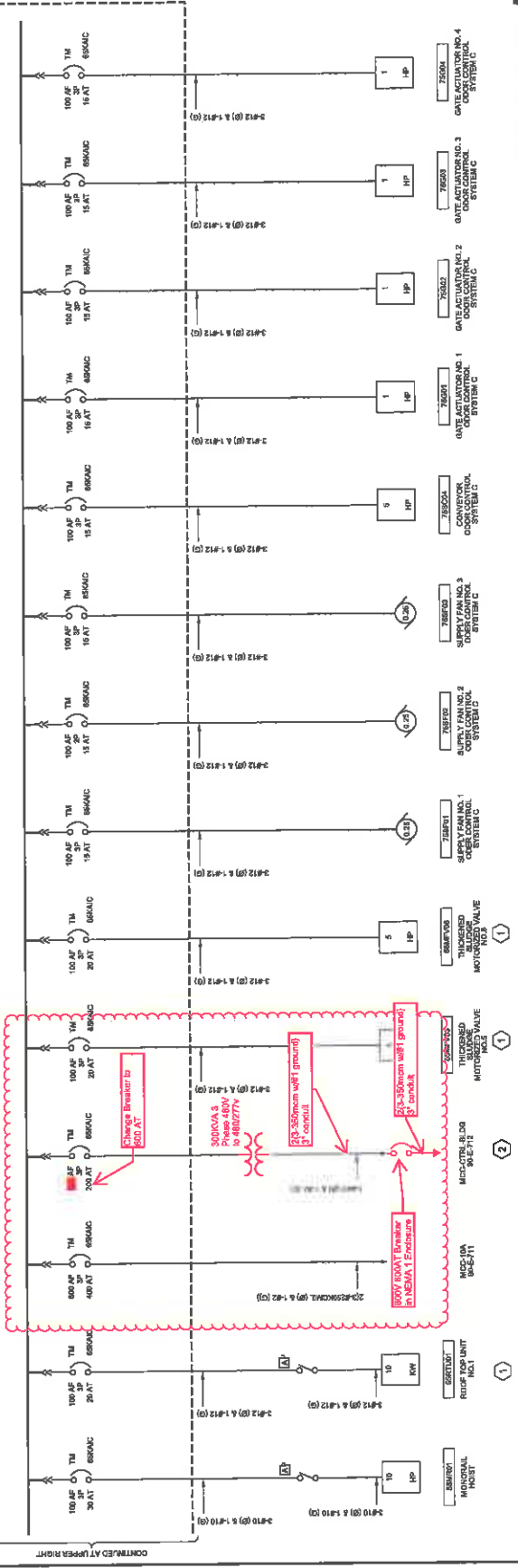
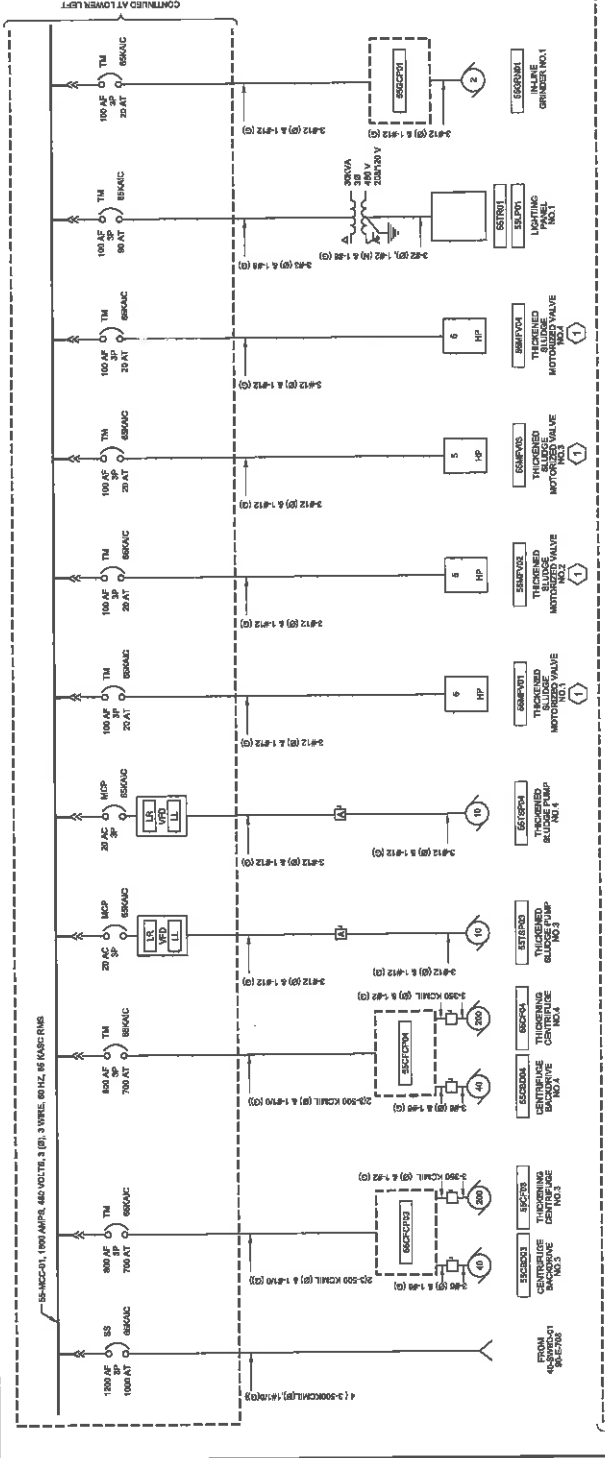
JOB NO.: 12070951  
 DATE: JANUARY 2014  
 DESIGNED BY: TT  
 DRAWN BY: TLM  
 CHECKED BY: TLM  
 APPROVED BY: TLM

DRAWING NUMBER  
 90-E-710  
 SHEET NUMBER  
 421



ISSUED FOR CONSTRUCTION

- KEY NOTES:
- DISCONNECT INTEGRAL TO UNIT.
  - UTILIZE EXISTING 2 COND. BARRIER AND ADD CONDUIT FROM MAINCUT AS NEEDED TO PROVIDE PROTECTIVE COVERING TO THE NEAR MAINCUTS TO BE BEFORE TERMINATING.



75004	PUMP	1	25000	GATE ACTUATOR NO. 4
75003	PUMP	1	25000	GATE ACTUATOR NO. 3
75002	PUMP	1	25000	GATE ACTUATOR NO. 2
75001	PUMP	1	25000	GATE ACTUATOR NO. 1
75004	PUMP	5	25000	CONVERTOR
75003	PUMP	5	25000	SUPPLY FAN NO. 3
75002	PUMP	5	25000	SUPPLY FAN NO. 2
75001	PUMP	5	25000	SUPPLY FAN NO. 1
75004	PUMP	5	25000	THICKENER MOTOR/VALVE NO. 3
75003	PUMP	5	25000	THICKENER MOTOR/VALVE NO. 2
75002	PUMP	5	25000	THICKENER MOTOR/VALVE NO. 1
75001	PUMP	5	25000	THICKENER MOTOR/VALVE NO. 0
75004	PUMP	10	25000	THICKENER MOTOR/VALVE NO. 3
75003	PUMP	10	25000	THICKENER MOTOR/VALVE NO. 2
75002	PUMP	10	25000	THICKENER MOTOR/VALVE NO. 1
75001	PUMP	10	25000	THICKENER MOTOR/VALVE NO. 0

FROM 480V BUS TO SWM3031

TO 480V BUS FROM SWM3031



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

www.GarverUSA.com

### Contract Modification Request

MODIFICATION REQUEST NO: CMR-080.6

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 8.11.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

# Approved As Noted

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents):

1. After further discussion, the agreed upon number of days is 81.

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	\$203,742.69	This Contract Modification (ADD)	Days: <del>166</del> <b>81</b>
Contractor		Engineer	
By: <u>Skay Skaggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>8.11.17</u>		Date: <u>09/06/2017</u>	



August 11, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-080.6 Site Lighting T&M 1,2,3,4,5

Dear Mark,

Archer Western offers a total price of \$203,742.69 for the installation site lighting. See attached breakdowns (1,2,3,4,5) as well as the overall breakdown summary attached. 166 days requested as well (Feb 15 - July 31 as shown in OCE Breakdowns). If you have any questions regarding this proposal, please contact me.

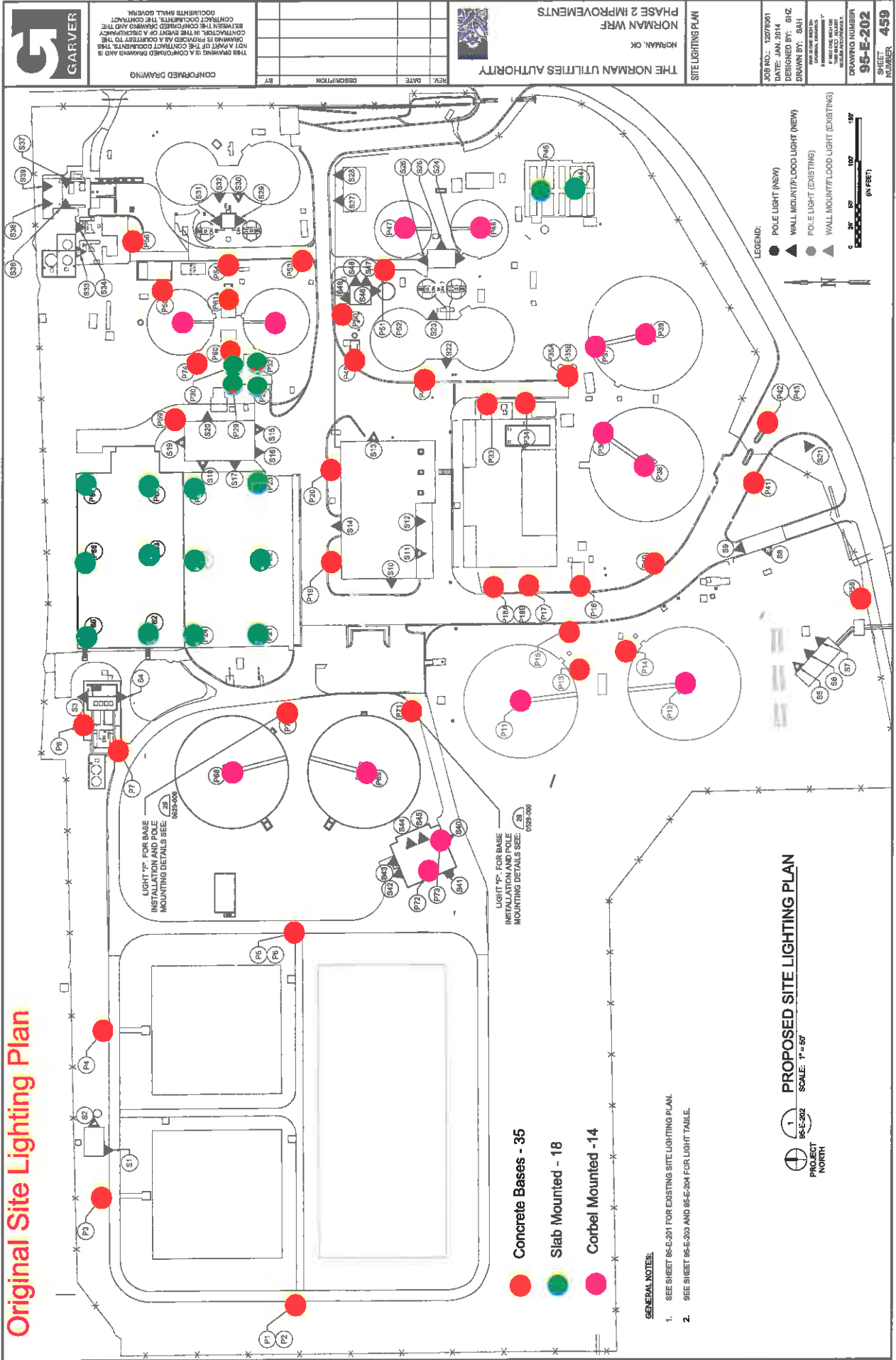
Sincerely,

*Sky Skaggs*

Sky Skaggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
S. Skaggs

# Original Site Lighting Plan





# Revised Site Lighting Plan



**GARVER**

OK COA # 179  
EXPIRES 06/30/14  
1010 26th Avenue NW  
Norman, OK 73069  
(405) 325-2556



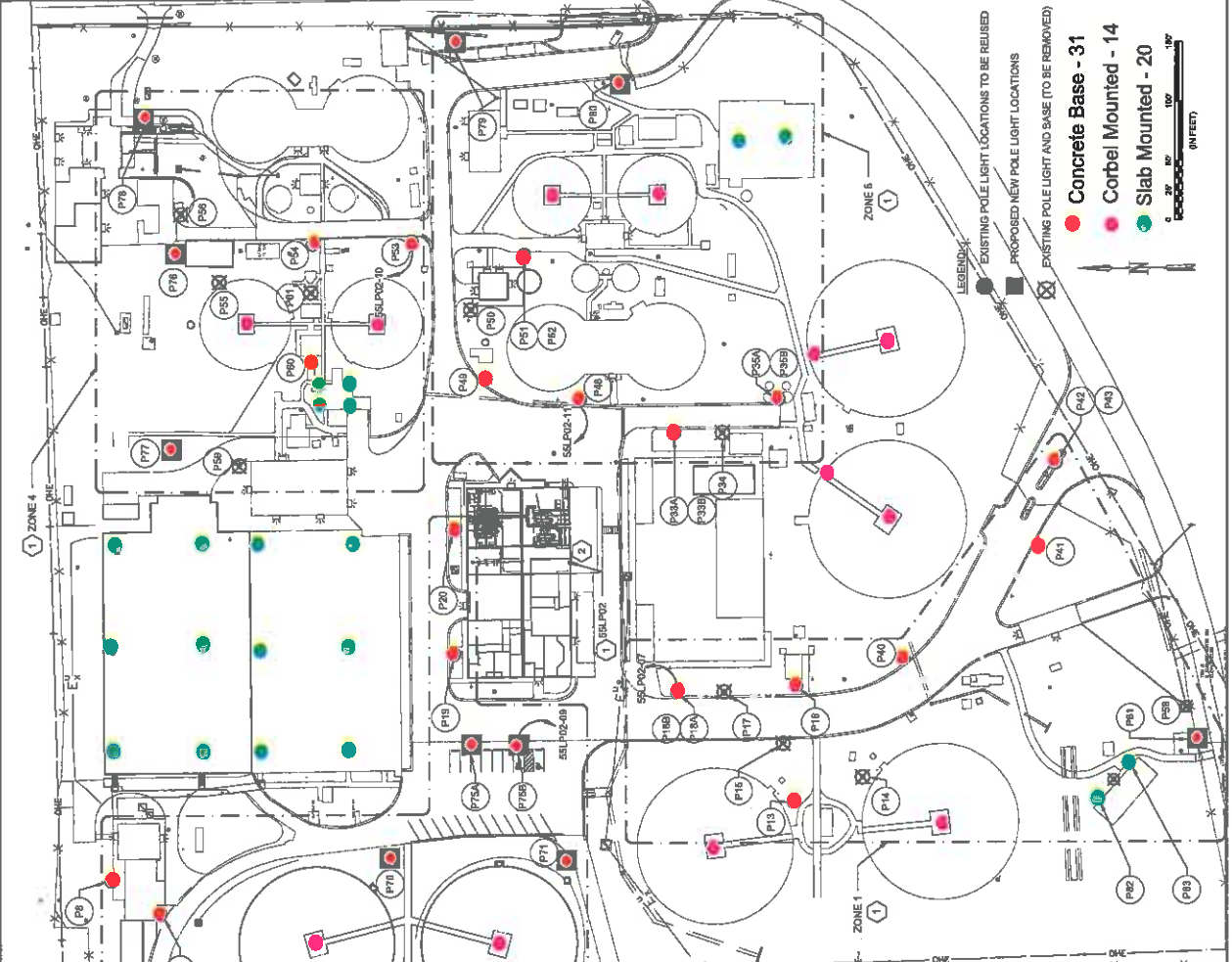
**THE NORMAN UTILITIES AUTHORITY**

NORMAN, OK

NORMAN WRF  
PHASE 2 IMPROVEMENTS

JOB NO.: 14070651  
DATE: MARCH 2016  
DESIGNED BY: 6AH  
DRAWN BY: 6AH

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- GENERAL NOTES:**
- SEE SHEET 95-E-208 FOR LIGHT TABLE. SUBMIT FIXTURE SCHEDULE PRIOR TO CONSTRUCTION FOR ENGINEER REVIEW.
  - SEE SHEET 95-E-202 FOR PROPOSED LIGHTING PLAN FOR ALL EXTERIOR LIGHTING FIXTURES NOT REFERENCED ON THIS SHEET.
  - NUMEROUS UNDERGROUND UTILITIES EXIST THROUGHOUT PROJECT SITE. THESE UTILITIES, INCLUDING ELECTRIC, SEWER, FIBER OPTIC, GAS AND WATER LINES, MARK OR CAUSE TO BE MARKED PRIOR TO WORK.
  - COORDINATE ALL EXCAVATIONS AND POLE BASES WITH UNDERGROUND UTILITIES SHOWN ON CIVIL SHEETS.
  - ALL NEW BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 PVC COVERED WITH FLOWABLE FILL WITH GALVANIZED ELBOWS.
  - ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2014) NATIONAL ELECTRICAL CODE, NFPA 101 (2015) LIFE SAFETY CODE, STATE ELECTRICAL CODE, AND LOCAL ELECTRICAL CODE.
  - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, WIRING, TERMINATIONS, AND OTHER ITEMS AS NECESSARY FOR COMPLETE AND FUNCTIONAL LIGHTING SYSTEM. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND OTHER SECTIONS OF THE PLANS FOR ITEMS AS MAY BE REQUIRED.
  - CONTRACTOR SHALL PROVIDE AS BUILT DRAWINGS AS PART OF PROJECT SCOPE.
- KEY NOTES:**
- POLE LIGHTS IN EACH ZONE TO BE ON SAME 277VAC CIRCUIT. EACH ZONE TO BE CENTRALLY CONTROLLED AND POWERED FROM 6SLP02. FIELD LOCATE EXISTING AREA POLE LIGHT CIRCUITS. CONTRACTOR TO PULL NEW CONDUCTORS FOR EACH CIRCUIT. PROVIDE NEW CONDUIT AS REQUIRED FROM MAIN CONTROL BUILDING TO AREA LIGHT FIXTURES.
  - CONTRACTOR SHALL COORDINATE MOUNTING AND INSTALLATION LOCATION OF LIGHT PANEL. LIGHT PANEL SHALL BE MOUNTED TO EXISTING CONCRETE OR SLAB. LIGHT PANEL SHALL BE 95-E-204 FOR CONDUIT AND CONDUCTORS FOR LIGHT PANEL POWER FROM MAIN CONTROL BUILDING MCC.

**LEGEND:**

- EXISTING POLE LIGHT LOCATIONS TO BE REUSED
- PROPOSED NEW POLE LIGHT LOCATIONS
- EXISTING POLE LIGHT AND BASE (TO BE REMOVED)
- PROPOSED POLE LIGHT AND BASE (TO BE REMOVED)

**Concrete Base - 31**  
**Corbel Mounted - 14**  
**Slab Mounted - 20**

0 20' 40' 60' 80' 100' 120'  
 IN FEET

**PROJECT NORTH**

**95-E-205** SCALE: 1" = 80'

**MODIFIED AREA LIGHTING PLAN**

DRAWING NUMBER **95-E-205**  
 SHEET NUMBER **514**

# Actual Lights Installed



	Original	Modified	Actual
Concrete	35	31	34
Slab	18	14	17
Corbel	14	20	16
<b>Total</b>	<b>67</b>	<b>65</b>	<b>67</b>

● Concrete Base - 34  
● Slab Mount - 17  
● Corbel Mount - 16

— Added later  
— Drawings show (4). Only (1) was installed

**CMR-080.6**

**Date:** August 11, 2017

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Site Lighting T&M 1-5									
	DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>									
			MH		\$ -				\$ -
<b>SUBCONTRACTOR: OCE</b>									
	T&M - 1	1	LS	\$ 32,782.87				\$ 32,782.87	\$ 32,782.87
	T&M - 2	1	LS	\$ 67,219.74				\$ 67,219.74	\$ 67,219.74
	T&M - 3	1	LS	\$ 67,492.89				\$ 67,492.89	\$ 67,492.89
	T&M - 4	1	LS	\$ 27,748.31				\$ 27,748.31	\$ 27,748.31
	T&M - 5	1	LS	\$ 8,498.88				\$ 8,498.88	\$ 8,498.88
<b>MATERIALS:</b>									
						\$ -			\$ -
						\$ -			\$ -
<b>Equipment:</b>									
							\$ -		\$ -
<b>SUBTOTALS:</b>					\$ -	\$ -	\$ -	\$ 203,742.69	\$ 203,742.69
PAYROLL BURDEN @ 55% OF LABOR					\$ -				\$ -
EQUIPMENT OPERATING EXPENSE @ 45%							\$ -		\$ -
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>					\$ -	\$ -	\$ -	\$ 203,742.69	\$ 203,742.69
15% OH&P on AWC work less Unit Price Work									\$ -
5% OH&P on subs									\$ -
3% BOND & INSURANCE									\$ -
<b>TOTAL AMOUNT OF THIS REQUEST</b>									\$203,742.69

**CMR-080**

**Date:** March 23, 2017

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Partial Site Lighting T&M per Field Order FO-E01.

DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>								
		MH		\$ -				\$ -
		MH		\$ -				\$ -
<b>SUBCONTRACTOR:</b>								
Oil Capital Electric	1	LS	\$ 31,221.78				\$ 31,221.78	\$ 31,221.78
<b>MATERIALS:</b>								
					\$ -			\$ -
					\$ -			\$ -
<b>Equipment:</b>								
						\$ -		\$ -
<b>SUBTOTALS:</b>				\$ -	\$ -	\$ -	\$ 31,221.78	\$ 31,221.78
PAYROLL BURDEN @ 55% OF LABOR				\$ -				\$ -
EQUIPMENT OPERATING EXPENSE @ 45%						\$ -		\$ -
Per Diem (\$4/MH)								\$ -
<b>SUBTOTALS:</b>				\$ -	\$ -	\$ -	\$ 31,221.78	\$ 31,221.78
15% OH&P on AWC work less Unit Price Work								\$ -
5% OH&P on subs								\$ 1,561.09
3% BOND & INSURANCE								
<b>TOTAL AMOUNT OF THIS REQUEST</b>								<b>\$32,782.87</b>



Oil Capital Electric, LLC  
 37 NE 31st Street  
 Oklahoma City, OK 73105  
 Phone: (405) 840-8998 Fax: (405) 840-9120  
 Oklahoma License No. 1588

## Breakout - Partial Site Lighting T&M

Date: March 22, 2017

Project: Norman WRF Improvements

To: David Nine Change Order: \_\_\_\_\_

Description: Partial underground raceway and conductors for the added scope of work associated with site lighting.  
This represents work performed from February 15th thru March 17th.

Material	Quantity	Cost	Total
Lump Sum Material (backup included)	1	\$ 517.00	\$ 517.00
Flowable Fill	54	\$ 85.00	\$ 4,590.00
ODOT Class A Gravel	12	\$ 19.00	\$ 228.00
Expendables	0.05	\$ 517.00	\$ 25.85
			\$ -
		\$ -	\$ 5,360.85

Labor	Hours	Rate	Total
Superintendent	24	\$ 90.00	\$ 2,160.00
Electrician	145.5	\$ 56.50	\$ 8,220.75
		Subtotal	\$ 10,380.75

Equipment	Quantity	Rate	Total
Compactor	0.5	\$ 396.00	\$ 198.00
Concrete Vibrator	0.25	\$ 188.10	\$ 47.03
TE 72	0.15	\$ 24.75	\$ 3.71
Vacuum	0.15	\$ 99.00	\$ 14.85
555 bender	0.25	\$ 347.50	\$ 86.88
Bandsaw	0.25	\$ 49.50	\$ 12.38
Ridgid 1224 Threader	0.25	\$ 99.00	\$ 24.75
PVC Electric Bender	0.25	\$ 33.00	\$ 8.25
Truck	1	\$ 720.00	\$ 720.00
		Subtotal	\$ 1,115.84

Subcontractor	Quantity	Rate	Amount
Euclach Valley Construction	91	\$ 95.00	\$ 8,645.00
Oklahoma Coring & Cutting	1	\$ 956.70	\$ 956.70
			\$ -
		Subtotal	\$ 9,601.70

Bond	1.00%	\$ 264.59	Subtotal Above	\$ 26,459.14
Insurance	2.00%	\$ 529.18	Subtotal Left Column	\$ 4,762.64
Material Taxes	0.00%	\$ -		
Overhead/Profit	15.00%	\$ 3,968.87		
	0.00%	\$ -	<b>ALL Total</b>	<b>\$ 31,221.78</b>

CMR-083

#2

Date: April 25, 2017

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Partial Site Lighting T&M #2 for Field Order FO-E01. This work took place between March 20, 2017 & April 21, 2017									
	DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>									
			MH		\$ -				\$ -
			MH		\$ -				\$ -
<b>SUBCONTRACTOR:</b>									
	Olt Capital Electric	1	LS	\$ 64,018.80				\$ 64,018.80	\$ 64,018.80
<b>MATERIALS:</b>									
						\$ -			\$ -
						\$ -			\$ -
<b>Equipment:</b>									
							\$ -		\$ -
<b>SUBTOTALS:</b>					\$ -	\$ -	\$ -	\$ 64,018.80	\$ 64,018.80
PAYROLL BURDEN @ 55% OF LABOR					\$ -				\$ -
EQUIPMENT OPERATING EXPENSE @ 45%							\$ -		\$ -
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>					\$ -	\$ -	\$ -	\$ 64,018.80	\$ 64,018.80
15% OH&P on AWC work less Unit Price Work									\$ -
5% OH&P on subs									\$ 3,200.94
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									<b>\$67,219.74</b>



**Oil Capital Electric, LLC**  
 37 NE 31st Street  
 Oklahoma City, OK 73105  
 Phone: (405) 840-8998 Fax: (405) 840-9120  
 Oklahoma License No. 1588

## Breakout - Partial Site Lighting T&M

Date: April 24, 2017

Project: Norman WRF Improvements

To: David Nine Change Order: \_\_\_\_\_

Description: Partial underground raceway and conductors for the added scope of work associated with site lighting.  
This represents work performed from March 20th thru April 21st.

Material	Quantity	Cost	Total
Lump Sum Material (backup included)	1	\$ 4,120.20	\$ 4,120.20
Flowable Fill	97	\$ 85.00	\$ 8,245.00
ODOT Class A Gravel	12	\$ 19.00	\$ 228.00
Expendables	0.1	\$ 4,120.20	\$ 412.02
			\$ -
		\$ -	\$ 13,005.22

Labor	Hours	Rate	Total
Superintendent	60	\$ 90.00	\$ 5,400.00
Electrician	367	\$ 56.50	\$ 20,735.50
		Subtotal	\$ 26,135.50

Equipment	Quantity	Rate	Total
Truck	1	\$ 720.00	\$ 720.00
		Subtotal	\$ 720.00

Subcontractor	Quantity	Rate	Amount
Euchee Valley Construction	151.5	\$ 95.00	\$ 14,392.50
		\$ -	\$ -
			\$ -
		Subtotal	\$ 14,392.50

Bond	1.00%	\$ 542.53	Subtotal Above	\$ 54,253.22
Insurance	2.00%	\$ 1,085.06	Subtotal Left Column	\$ 9,765.58
Material Taxes	0.00%	\$ -		
Overhead/Profit	15.00%	\$ 8,137.98		
	0.00%	\$ -	<b>ALL Total</b>	<b>\$ 64,018.80</b>

CMR-80-3

Date: August 11, 2017

#3

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Site Lighting T&M 3rd installment 4.22.17-5.19.17									
	DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS
<b>LABOR:</b>									
			MH		\$ -				\$ -
			MH		\$ -				\$ -
<b>SUBCONTRACTOR:</b>									
	Oil Capital Electric	1	LS	\$ 64,278.94				\$ 64,278.94	\$ 64,278.94
<b>MATERIALS:</b>									
						\$ -			\$ -
						\$ -			\$ -
<b>Equipment:</b>									
							\$ -		\$ -
<b>SUBTOTALS:</b>					\$ -	\$ -	\$ -	\$ 64,278.94	\$ 64,278.94
PAYROLL BURDEN @ 55% OF LABOR					\$ -				\$ -
EQUIPMENT OPERATING EXPENSE @ 45%							\$ -		\$ -
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>					\$ -	\$ -	\$ -	\$ 64,278.94	\$ 64,278.94
15% OH&P on AWC work less Unit Price Work									\$ -
5% OH&P on subs									\$ 3,213.95
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									\$67,492.89





**Oil Capital Electric, LLC** #3  
 37 NE 31st Street  
 Oklahoma City, OK 73105  
 Phone: (405) 840-8998 Fax: (405) 840-9120  
 Oklahoma License No. 1588

## Breakout - Partial Site Lighting T&M

Date: May 25, 2017

Project: Norman WRF Improvements

To: David Nine Change Order: \_\_\_\_\_

Description: Partial underground raceway and conductors for the added scope of work associated with site lighting.  
This represents work performed from April 22nd thru May 19th.

Material	Quantity	Cost	Total
Lump Sum Material (backup included)	1	\$ 9,444.93	\$ 9,444.93
Flowable Fill	35	\$ 85.00	\$ 2,975.00
Type "J" Light Fixtures	4	\$ 539.00	\$ 2,156.00
Expendables	0.05	\$ 9,444.93	\$ 472.25
			\$ -
		\$ -	\$ 15,048.18

Labor	Hours	Rate	Total
Superintendent	60	\$ 90.00	\$ 5,400.00
Electrician	432	\$ 56.50	\$ 24,408.00
		Subtotal	\$ 29,808.00

Equipment	Quantity	Rate	Total
Truck	1	\$ 720.00	\$ 720.00
		Subtotal	\$ 720.00

Subcontractor	Quantity	Rate	Amount
Euchee Valley Construction	90.5	\$ 95.00	\$ 8,597.50
Oklahoma Coring & Cutting, Inc	1	\$ 300.00	\$ 300.00
			\$ -
		Subtotal	\$ 8,897.50

Bond	1.00%	\$ 544.74	Subtotal Above	\$ 54,473.68
Insurance	2.00%	\$ 1,089.47	Subtotal Left Column	\$ 9,805.26
Material Taxes	0.00%	\$ -		
Overhead/Profit	15.00%	\$ 8,171.05		
	0.00%	\$ -	<b>ALL Total</b>	<b>\$ 64,278.94</b>

CMR-80-4

Date: July 13, 2017

#4

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Site Lighting T&M 4th Installment 5.22.17-6.5.17									
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS	
<b>LABOR:</b>									
Foreman	4	MH	\$ 25.00	\$ 100.00				\$ 100.00	
Laborer	8	MH	\$ 22.00	\$ 176.00				\$ 176.00	
<b>SUBCONTRACTOR:</b>									
Oil Capital Electric	1	LS	\$ 17,072.66				\$ 17,072.66	\$ 17,072.66	
<b>MATERIALS:</b>									
Concrete Light Pole Bases	3	EA	\$ 2,543.99		\$ 7,631.97			\$ 7,631.97	
Bracket Mount Light Pole Base	2	EA	\$ 190.56		\$ 381.11			\$ 381.11	
316 SS Fasteners	1	LS	\$ 100.00		\$ 100.00			\$ 100.00	
<b>Equipment:</b>									
						\$ -		\$ -	
<b>SUBTOTALS:</b>				\$ 276.00	\$ 8,113.08	\$ -	\$ 17,072.66	\$ 25,461.74	
PAYROLL BURDEN @ 55% OF LABOR				\$ 151.80				\$ 151.80	
EQUIPMENT OPERATING EXPENSE @ 45%						\$ -		\$ -	
Per Diem (\$4/MH)								\$ -	
<b>SUBTOTALS:</b>				\$ 427.80	\$ 8,113.08	\$ -	\$ 17,072.66	\$ 25,613.54	
15% OH&P on AWC work less Unit Price Work								\$ 1,281.13	
5% OH&P on subs								\$ 853.63	
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>								\$27,748.31	



**Oil Capital Electric, LLC**  
 37 NE 31st Street  
 Oklahoma City, OK 73105  
 Phone: (405) 840-8998 Fax: (405) 840-9120  
 Oklahoma License No. 1588

## Breakout - Partial Site Lighting T&M #4

Date: July 5, 2017

Project: Norman WRF Improvements

To: David Nine Change Order: \_\_\_\_\_

Description: Partial underground raceway and conductors for the added scope of work associated with site lighting.  
This represents work performed from May 22nd thru July 5th

Material	Quantity	Cost	Total
Lump Sum Material (backup included)	1	\$ 625.10	\$ 625.10
Expendables	0.05	\$ 625.10	\$ 31.26
			\$ -
		\$ -	\$ 656.36

Labor	Hours	Rate	Total
Superintendent	40	\$ 90.00	\$ 3,600.00
Electrician	168	\$ 56.50	\$ 9,492.00
		Subtotal	\$ 13,092.00

Equipment	Quantity	Rate	Total
Truck	1	\$ 720.00	\$ 720.00
		Subtotal	\$ 720.00

Subcontractor	Amount
	\$ -
	\$ -
Subtotal	\$ -

Bond	1.00%	\$ 144.68	Subtotal Above	\$ 14,468.36
Insurance	2.00%	\$ 289.37	Subtotal Left Column	\$ 2,604.30
Material Taxes	0.00%	\$ -		
Overhead/Profit	15.00%	\$ 2,170.25		
	0.00%	\$ -	<b>ALL Total</b>	<b>\$ 17,072.66</b>





1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

www.GarverUSA.com

### Contract Modification Request

MODIFICATION REQUEST NO: CMR-082R.1

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 4.12.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request:

Please see the Archer Western Cover Letter on the following page.

# Approved As Noted

Attachments (List Supporting Documents):

Revised CMR added labor from the contractor for supervision of the pumps - for future CMRs, contractor shall notify the Engineer and Owner of out of scope work and get consensus/approval prior to performing the work.

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	\$7,061.47	This Contract Modification (ADD)	Days: 0
Contractor		Engineer	
By: <u>Zach Biggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>4.12.17</u>		Date: <u>4/20/2017</u>	



April 12, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-082R.1 SBPS MCC Panel Modifications for Double Disc Pumps

Dear Mark,

Archer Western offers a total price of **\$7,061.47** to furnish and install additional switches and relays in the new MCCs in the Sludge Blend Pump Station to protect the new Double Disc Sludge Pumps. See attached breakdown for detail.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Zach Biggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
B. Robbins  
S. Skaggs

**CMR-082R.1**

**Date:** April 12, 2017

**Project:** Norman WRF Phase II Improvements  
**Owner:** Norman Utilities Authority  
**Contractor:** Archer Western Construction  
**Engr:** Garver

**CHANGE DESCRIPTION:**

Furnish & Install Additional switches and relays in new MCCs in Sludge Blend Pump Station to protect the new Double Disc Sludge Pumps									
DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	SUB	TOTALS	
<b>LABOR:</b>									
AW Supervision for Pump Monitoring & Coordination	10	MH	\$ 50.00	\$ 500.00					\$ 500.00
		MH		\$ -					\$ -
<b>SUBCONTRACTOR:</b>									
Oil Capital Electric	1	LS					\$ 5,876.40		\$ 5,876.40
<b>MATERIALS:</b>									
					\$ -				\$ -
					\$ -				\$ -
<b>Equipment:</b>									
						\$ -			\$ -
<b>SUBTOTALS:</b>				\$ 500.00	\$ -	\$ -	\$ 5,876.40		\$ 6,376.40
<b>PAYROLL BURDEN @ 55% OF LABOR</b>				\$ 275.00					\$ 275.00
<b>EQUIPMENT OPERATING EXPENSE @ 45%</b>						\$ -			\$ -
<b>Per Diem (\$4/MH)</b>									\$ -
<b>SUBTOTALS:</b>				\$ 775.00	\$ -	\$ -	\$ 5,876.40		\$ 6,651.40
15% OH&P on AWC work less Unit Price Work									\$ 116.25
5% OH&P on subs									\$ 293.82
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									<b>\$7,061.47</b>



**Oil Capital Electric, LLC**  
 37 NE 31st Street  
 Oklahoma City, OK 73105  
 Phone: (405) 840-8998 Fax: (405) 840-9120  
 Oklahoma License No. 1588

## Breakout - Panel Modifications

Date: April 10, 2017

Project: Norman WRF Improvements

To: David Nine Change Order: \_\_\_\_\_

Description: Provide panel modifications

Material	Quantity	Cost	Total
Schneider Proposal	1	4800	\$ 4,800.00
			\$ -
			\$ -
			\$ -
			\$ -
			\$ 4,800.00

Labor	Hours	Rate	Total
Superintendent	2	90	\$ 180.00
Electrician	0	56.5	\$ -
		Subtotal	\$ 180.00

Equipment	Quantity	Rate	Total
			\$ -
			\$ -
		Subtotal	\$ -

Subcontractor	Amount
	\$ -
	\$ -
	Subtotal \$ -

Bond	2.00%	\$ 99.60	Subtotal Above	\$ 4,980.00
Insurance	1.00%	\$ 49.80	Subtotal Left Column	\$ 896.40
Material Taxes	0.00%	\$ -		
Overhead/Profit	15.00%	\$ 747.00		
	0.00%	\$ -	<b>ALL Total</b>	<b>\$ 5,876.40</b>





1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-083

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 7/26/17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Requested:

Please see the Archer Western Cover Letter on the following page.

**Resolve Balance of Unused Credits**

Attachments (List Supporting Documents):

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (CREDIT)	\$ 175,085.00	This Contract Modification (ADD)	Days: 0
Contractor		Engineer	
By:	_____	By:	_____
Date: <u>10/5/17</u>	_____	Date: <u>7/26/17</u>	_____

Testing Allowance	\$ 50,000.00
Field Trailer Allowance	\$ 20,000.00
Site Lighting Allowance	\$ 40,000.00
Bollards	\$ 11,250.00
Concrete Crack Injection	\$ 16,500.00
Concrete Surface Repair	\$ 18,420.00
Trash Removal	\$ 18,915.00
<b>TOTAL</b>	<b>\$ 175,085.00</b>



1016 24<sup>th</sup> Avenue NW  
Norman, OK 73069

TEL 405.329.2555  
FAX 405.329.3555

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### Contract Modification Request

MODIFICATION REQUEST NO: CMR-084

CONTRACTOR: Archer Western

PROJECT: Norman WRF Phase 2 Improvements PROJECT NO: 14078061

OWNER: Norman Utilities Authority

ENGINEER: Garver

REFERENCE TO: SPEC: \_\_\_\_\_ DWG: \_\_\_\_\_

REQUESTED BY: GARVER DATE: 6.6.17

The following modification(s) to the Contract are hereby requested (use additional pages if required):

Reason for Modification(s) Request: \_\_\_\_\_  
Please see the Archer Western Cover Letter on the following page.

Attachments (List Supporting Documents): \_\_\_\_\_

# APPROVED

CMR Proposed Amount or Price		Proposed Contract Times	
This Contract Modification (ADD)	<b>\$6,748.20</b>	This Contract Modification (ADD)	Days: <b>0</b>
Contractor		Engineer	
By: <u>Stacy Skaggs</u>		By: <u>Kyle Kruger</u>	
Date: <u>6.6.2017</u>		Date: <u>06/13/17</u>	



June 6, 2017

Mr. Mark Daniels, P.E.  
Norman Utilities Authority  
201 W. Grey  
Norman, OK 73069

RE: City of Norman WRF Phase 2 Improvements  
CMR-084 Higher Range Pressure Transmitters in the Centrifuge Room

Dear Mark,

Archer Western offers a total price of **\$6,748.20** to remove existing, furnish, and install new pressure transmitters for the discharge of the progressive cavity pumps on the 6" TWAS in the centrifuge room.

If you have any questions regarding this proposal, please contact me.

Sincerely,

Sky Skaggs  
Assistant Project Manager  
Archer Western Construction

Cc: File  
D. Nine  
Z. Biggs

CMR-083

Date: June 6, 2017

Project: Norman WRF Phase II Improvements  
 Owner: Norman Utilities Authority  
 Contractor: Archer Western Construction  
 Engr: Garver

**CHANGE DESCRIPTION:**

Furnish and install 6" annular rings with new pressure switches and pressure transmitters per Garver Engineering for the 6" TWAS line in the centrifuge room									
	DESCRIPTION	QTY	U/M	UNIT PRICE	LABOR	MATERIAL	EQUIPMENT	TOTALS	
<b>LABOR:</b>									
	Laborer	4	MH	\$ 22.00	\$ 88.00			\$ 88.00	
	Laborer	4	MH	\$ 22.00	\$ 88.00			\$ 88.00	
	Supervision / Coordination	4	MH	\$ 25.00	\$ 100.00			\$ 100.00	
	Laborer (Touch Up Paint)	2	MH	\$ 22.00	\$ 44.00			\$ 44.00	
<b>SUBCONTRACTOR:</b>									
<b>MATERIALS:</b>									
	Pressure Transmitter, Switch & Iso Ring	2	LS	\$ 2,686.00		\$ 5,372.00		\$ 5,372.00	
<b>Equipment:</b>									
<b>SUBTOTALS:</b>					\$ 320.00	\$ 5,372.00	\$ -	\$ -	\$ 5,692.00
PAYROLL BURDEN @ 55% OF LABOR					\$ 176.00				\$ 176.00
EQUIPMENT OPERATING EXPENSE @ 45%							\$ -		\$ -
Per Diem (\$4/MH)									\$ -
<b>SUBTOTALS:</b>					\$ 496.00	\$ 5,372.00	\$ -	\$ -	\$ 5,868.00
15% OH&P on AWC work less Unit Price Work									\$ 880.20
5% OH&P on subs									\$ -
3% BOND & INSURANCE									
<b>TOTAL AMOUNT OF THIS REQUEST</b>									\$6,748.20