

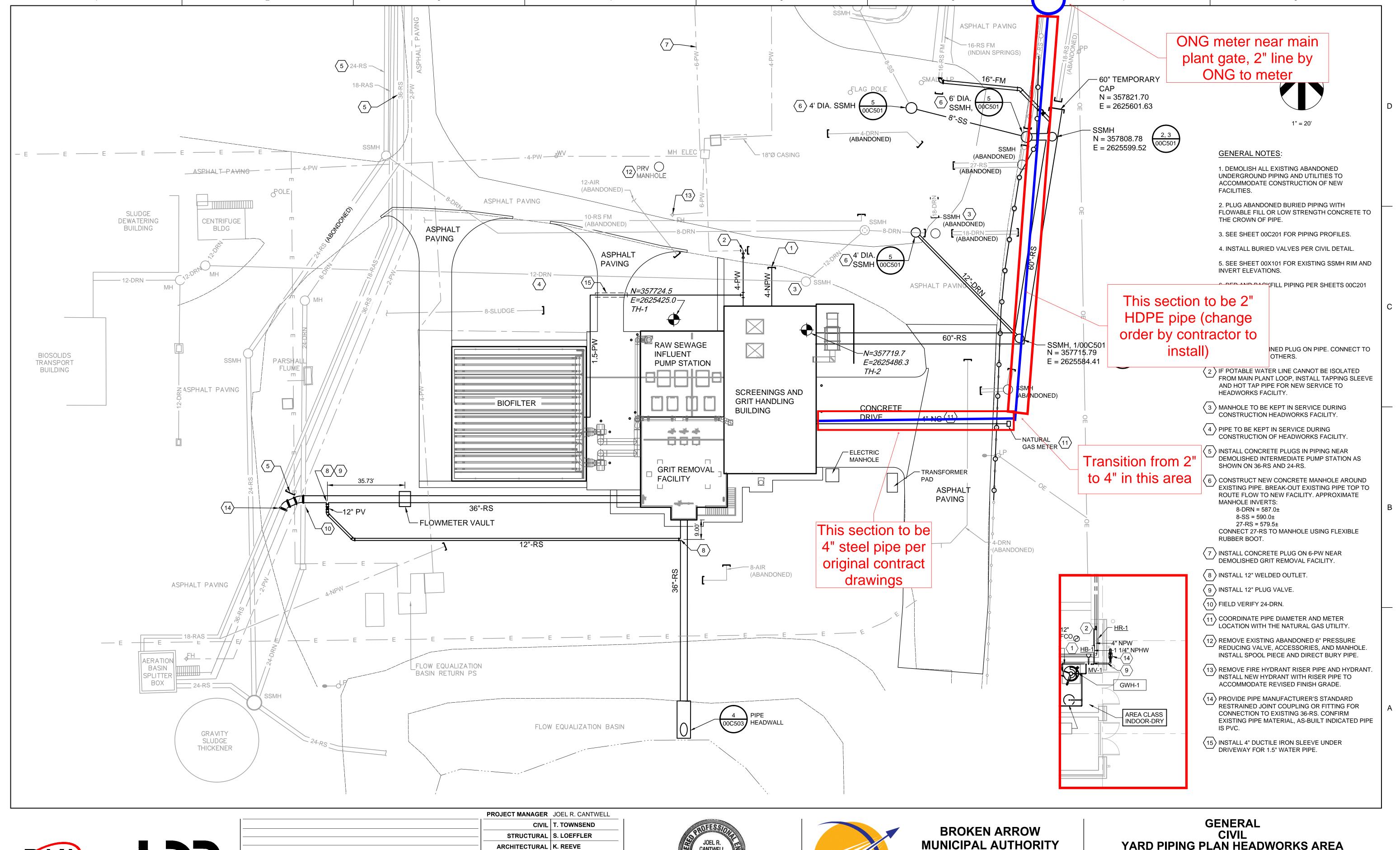
Public Contract Application for Contractual Changes

Engineering and Construction Department

485 N. Poplar, Broken Arrow, OK. 74012 Fax: 918-259-8453 - Office: 918-259-7000

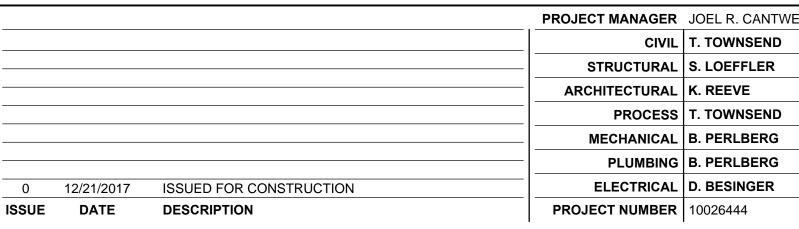
Contract Change Order # 5

Project Name:	LLWWTP Hea	dwords Impr	rovements		_	Project	Number:	165420	/165423
Project Location:	Lynn Lane Waste	e Water Trea	tment Plant		_	Date of App	plication:	Monday, A	pril 29, 2019
Contractor:	Crossland I	Heavy Contra	actors		_	Subm	nitted By:	Jason	Smith
		Summo	ary of Char	ago in S	cono o	f Work			
	ope of work consisting of wo	ork location,	work descript	ion, estal	olished (quantities, a			
and	agreed upon by the contrac	tor, the origi	in funding dep	artment,	and the	Engineerin	g and Construc	tion Departm	ent.
Per reques gas line pe location of ONG mete place prod	ems Included in this Change at of Utilities and Engineering or the attached plan. The ori of the ONG gas line shall be our shall be the basis of this coluct for the above noted score	ng staff, as w ginal plans sl located at the hange in sco	how the new to e entrance to to ppe. The below	ONG met the facility v costs pr	ter direc y. From oposal i	tly east of the the plan not is an all incl	he new headwo oted meter locat lusive lump sur	orks building; tion to the act	whereas the final ual location of the
Change in Contract 1) This work	tual Project Time: will not effect the critical p	ath or substa	nntial complet	ion of the	origina	al project an	d thus no addit	ional time is	required.
Plan Sheets or Add	itional Documents Attached	d: 🗵 Y	Zes □	No	2	Other:	Project Plans	s, CHC Cost I	Proposal, To Date
			Work Ord	er Quant	tities				
tom# (Snaa) If	com Description					Drice	Quantity		Total Amoun
	em Description		U	nits	1	Price	Quantity	\$	Total Amoun
	em Description Onsite Gas Line Extention		U		\$	Price 62,511.74	Quantity 1	\$	Total Amoun 62,511.74
	-		U	nits	1	62,511.74		\$	
	-		U J	nits LS	\$	62,511.74	1		62,511.74
CO5-1 NA C	Onsite Gas Line Extention	\$	Summary of	nits LS	\$ Costs	62,511.74 Tota	l Change Cost:	\$	62,511.74 62,511.74
CO5-1 NA C	Onsite Gas Line Extention		Summary of 738,817.03	nits LS Project	\$ Costs Origin	62,511.74 Tota al Contract	l Change Cost: Amount: \$	\$ 9,772	62,511.74 62,511.74 ,200.00
CO5-1 NA C	Insite Gas Line Extention Il Previous Change Orders: Current Change Order:	\$	Summary of	nits S Project	\$ Costs Origin Amende	62,511.74 Tota al Contract ded Contract	l Change Cost: Amount: \$ Amount: \$	\$ 9,772	62,511.74 62,511.74 ,200.00 ,528.77
CO5-1 NA C	Onsite Gas Line Extention	\$ \$	Summary of 738,817.03 62,511.74	nits S Project	\$ Costs Origin Amende	62,511.74 Tota al Contract ed Contract Change in	l Change Cost: Amount: \$ Amount: \$ Contract:	\$ 9,772	62,511.74 62,511.74 ,200.00
CO5-1 NA C	Il Previous Change Orders: Current Change Order: tal Cost of Change Orders:	\$ \$ \$	Summary of 738,817.03 62,511.74 801,328.77	Percent Author	\$ Costs Origin Amende Percent Change	62,511.74 Tota al Contract ed Contract Change in	1 Change Cost: Amount: \$ Amount: \$ Contract:	\$ 9,772 10,573	62,511.74 62,511.74 ,200.00 ,528.77 8.20% 8.20%
CO5-1 NA C	Il Previous Change Orders: Current Change Order: tal Cost of Change Orders:	\$ \$ \$	Summary of 738,817.03 62,511.74 801,328.77 801,328.77	Percent Author	\$ Costs Origin Amende Percent Change	62,511.74 Tota al Contract ed Contract Change in	1 Change Cost: Amount: \$ Amount: \$ Contract:	\$ 9,772 10,573	62,511.74 62,511.74 ,200.00 ,528.77 8.20%
CO5-1 NA C Tota To Tota Change Order #	Il Previous Change Orders: Current Change Orders: tal Cost of Change Orders: Il Cost Applicable to CBA:	\$ \$ \$	Summary of 738,817.03 62,511.74 801,328.77 801,328.77 Change Orde 62,511.74	Percent Author	\$ Costs Origin Amende Percent Change	62,511.74 Tota al Contract ed Contract Change in 6 Applicable	1 Change Cost: Amount: \$ Amount: \$ Contract:	\$ 9,772 10,573	62,511.74 62,511.74 ,200.00 ,528.77 8.20% 8.20% for approval by:
CO5-1 NA C Tota Tota Change Order # Contractor Submitt	Il Previous Change Orders: Current Change Orders: tal Cost of Change Orders: Il Cost Applicable to CBA: in the sum of: ing Change Order:	\$ \$ \$	Summary of 738,817.03 62,511.74 801,328.77 801,328.77 Change Orde 62,511.74	Percent Author	\$ Costs Origin Amende Percent Change	62,511.74 Tota al Contract ed Contract Change in	1 Change Cost: Amount: \$ Amount: \$ Contract:	\$ 9,772 10,573	62,511.74 62,511.74 ,200.00 ,528.77 8.20% 8.20%
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Tota Tota Tota Change Order # Contractor Submitt Construction Divis Director of Engineer	Il Previous Change Orders: Current Change Orders: tal Cost of Change Orders: Il Cost Applicable to CBA: in the sum of: ing Change Order: ion Manager: ering & Construction:	\$ \$ \$ Note the second of the	Summary of 738,817.03 62,511.74 801,328.77 801,328.77 Change Orde 62,511.74	Percent Author	\$ Costs Origin Amende Percent Change	62,511.74 Tota al Contract ed Contract Change in 6 Applicable ewed by all Signature	1 Change Cost: Amount: \$ Amount: \$ Contract:	\$ 9,772 10,573	62,511.74 62,511.74 ,200.00 ,528.77 8.20% 8.20% for approval by: Date Date
Tota Tota Tota Change Order # Contractor Submitt Construction Divis Director of Engineer	Il Previous Change Orders: Current Change Orders: tal Cost of Change Orders: Il Cost Applicable to CBA: in the sum of: ing Change Order: ion Manager: ering & Construction:	\$ \$ \$ Note the content of the conte	Summary of 738,817.03 62,511.74 801,328.77 Change Orde 62,511.74	Percent Author	\$ Costs Origin Amende Percent Change	62,511.74 Tota al Contract ed Contract Change in 6 Applicable ewed by all Signature	1 Change Cost: Amount: \$ Amount: \$ Contract:	\$ 9,772 10,573	62,511.74 62,511.74 ,200.00 ,528.77 8.20% 8.20% for approval by: Date Date
CO5-1 NA C Tota Tota Change Order # Contractor Submitt Construction Divis	Il Previous Change Orders: Current Change Orders: tal Cost of Change Orders: Il Cost Applicable to CBA: in the sum of: ing Change Order: ion Manager: ering & Construction:	\$ \$ \$ Timothy S Alex M Kenneth D	Summary of 738,817.03 62,511.74 801,328.77 801,328.77 Change Orde 62,511.74	Percent Author	\$ Costs Origin Amende Percent Change	Tota al Contract ed Contract Change in a Applicable ewed by all Signature Signature	1 Change Cost: Amount: \$ Amount: \$ Contract:	\$ 9,772 10,573	62,511.74 62,511.74 ,200.00 ,528.77 8.20% 8.20% for approval by: Date Date Date













MUNICIPAL AUTHORITY CITY OF BROKEN ARROW, OK

LYNN LANE WWTP **HEADWORKS IMPROVEMENTS**

YARD PIPING PLAN HEADWORKS AREA

FILENAME 00C104.dwg **SCALE** 1" = 20'

SHEET 00C104

COST BREAKDOWN FOR SUPPORT OF ALLOWANCE AUTHORIZATION NO. 17

Reference Document: Directive from City of Broken Arrow

Contract No.: Project Number 165420 & 165423 **Date**: 03/18/19

Project No.: Lynn Lane Headworks Improvements

Contractor: Crossland Heavy Contractors, Inc.

Description of Work: Additional gas line to owner supplied meter.

Materials:

Items	Units	Cost	Quantity	Amount
		\$0.00	0.00	\$0.00
		\$0.00	0.00	\$0.00
		\$0.00	0.00	\$0.00
		\$0.00	0.00	\$0.00
			Sub-Total	\$0.00
			Total	\$0.00

Labor:

Job Title	Rate/Hr.	Total	Amount			
	\$0.00	0.00		0.00		\$0.00
	\$0.00	0.00		\$0.00		
	\$0.00	0.00		\$0.00		
			Sub-Total	\$0.00		
			Total	\$0.00		

Payroll Additives:

Item	% of Labor	Amount
Insurance	8.00%	\$0.00
Bond	0.00%	\$0.00
Social Security	7.65%	\$0.00
Taxes	3.80%	\$0.00
Worker's Compensation	22.00%	\$0.00
Employee Fringe Benefits	20.00%	\$0.00
	Total	\$0.00

Equipment:

qp			
Туре	Cost/Hr.	Total Hrs.	Amount
	\$0.00	0.00	\$0.00
	\$0.00	0.00	\$0.00
	\$0.00	0.00	\$0.00
	\$0.00	0.00	\$0.00
			\$0.00
		Total	\$0.00

Sub-Contractor Cost - Gearbox Repair & Freight	\$56,828.85
Mark-up On Sub-Contractor (10%)	\$5,682.89
Contractor Cost	\$62,511.74
Contractor Profit	\$0.00
Contractor Total	\$62,511.74
Total Lump Sum Cost for Work Described	\$62,511.74

	Total Cost	
If Not Lump Sum, Cost Per Unit	Quantity	

	Contractor's Signature	
	_	
Printed Na	me·	



Request For Proposal#

Gas Service

Quote Date:

03/18/2019

Invoice Date:

Project:

Lynn Lane WWTP

Bill to:

Crossland-Heavy Contractors

Attn: Address:

Jason Smith 14149 East Admiral

Tulsa, Oklahoma 74133

Description of Work

Amount

Furnish and install Natural Gas Service from Meter to Building per attached drawing.

Labor: \$16,092.76

Material: \$34,972.37

Subtotal: \$51,065.13

Fee @ 10%: \$5,106.51

Bond @ 1.17% \$657.21

Total Due This Invoice: \$56,828.85

MATE	RIALS & EQUIPMENT	A	В	С	D	Е
0.777.7	DEG OD VDEVOV OF WORK	UNIT	UNIT	EXTENDED	EXTENDED	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
QTY	DESCRIPTION OF WORK	COST	LABOR	MATERIAL	LABOR	NET TOTAL
1	Material and Labor	\$7,707.03	209.00	\$7,707.03	209.00	PIPEFITTER
0		\$0.00	0.00	\$0.00	0.00	PIPEFITTER
0		\$0.00	0.00	\$0.00	0.00	PIPEFITTER
0		\$0.00	0.00	\$0.00	0.00	PIPEFITTER
				\$0.00	0.00	
	Subtotal Material Cost			\$7,707.03	209.00	
	Sales Tax @ 8.517%			\$0.00		
	Fee On Material @ 10%			\$0.00		
				Total Material Cos	rt e	\$7,707.03
abor	& Supervision	Unit Labor		Total Labor		
Hrs.	Description	Cost		Cost		
209	Pipefitter & Plumber	\$68.00		\$14,212.00		
0	Sheetmetal	\$68.00		\$0.00		
16.7	Supervision	\$83.00		\$1,387.76		
1	Project Manager	\$85.00		\$85.00		
6	Truck & Driver	\$68.00		\$408.00		
0	Detailer	\$65.00		\$0.00		
232.7	200000	Ψου.σο		Total Labor Cost		\$16,092.76
uhco	ntract Costs					
0	Road Bore			\$0.00		
0	Insulation			\$0.00		
0	Controls			\$0.00		
1	Remove and Patch Road			\$23,440.00		
	Tremo ve and Tuten Troud			Total Subcontracts	5	\$23,440.00
quip	nent Rental & Tool Costs					
Hrs.	Description	Unit Price		Total Price		
	Consumables @ 10% of Material Cost			\$770.70		
	Small Tools @ 5% of Labor Cost			\$804.64		
1	Backhoe	\$1,875.00		\$1,875.00		
1	Upright Tamper	\$375.00		\$375.00		
			& Equipment	Rental Costs		\$3,825.34
		2000 2001		Total Direct Costs	⊥ S	\$51,065.13
		Field Ove	erhead Expen			\$5,106.51
		Ticia OV	LAPCII	Total field Costs		\$56,171.64
			Bond @ 1.179			\$657.21
				tal Cost for this Ch	ange.	\$56,828.85



Will this request possibly create a change order:

Yes (Deductive) No

Request for Information No.061

Duningt Names	Lynn Lane Wastewater Treatment Plant	Institute at least		LIDD		OWNED		CONTRACTOR
Project Name:	Headworks Improvements	Initiated by:		HDR		OWNER		CONTRACTOR
Project Owner:	Broken Arrow Municipal Authority (BAMA) Project No. 165420/165423	Transmitted E	By: R	obby Rosend	cutter		Date:	2/4/2019
HDR Project No.	10026444	Initiated to:		HDR		OWNER		CONTRACTOR
Contractor:	Crossland Heavy Contractors	Transmitted T	o: H	DR (Jenifer	Rays	hell)	Date:	2/4/2019
Owner Contract #	Bid No. 18.110							
Subject Intent of C	OWRB Loan No. FAP-17-0004-L	Dissiplina, Dl.	ınahir					
Subject: Intent of Gas Line Discipline: Plumbing Reference Transmittal								
The General Condition	nternal Request for Information between the Contractor ons specifies that once the Engineer provides a respor is the Contractor delivers to the Owner written notice of the GCs for further clarification.	nse to a Contrac	tor's	RFI, that det				
Information Re	equested			Date	Red	quired:		
	nation needs to be verified and/or clarified on the contr	east deallmenter		Date	1101	quirou.		
Please see attachment included with this RFI, and advise on the intent of the Gas Line as to when it will be installed. Please advise. Requested by: Robby Rosencutter								
Response:								
area as showr	liameter gas pipe (steel as specified) from Sheet 00C104. City of Broken Arroweast side of the drive area to the plant g	w is proces	sing	a chang	e or	der to ex	ktend	the gas
Answered by: Tod	d Townsend, P.E.		Da	ate Answere	d: Ap	ril 29, 2019	1	

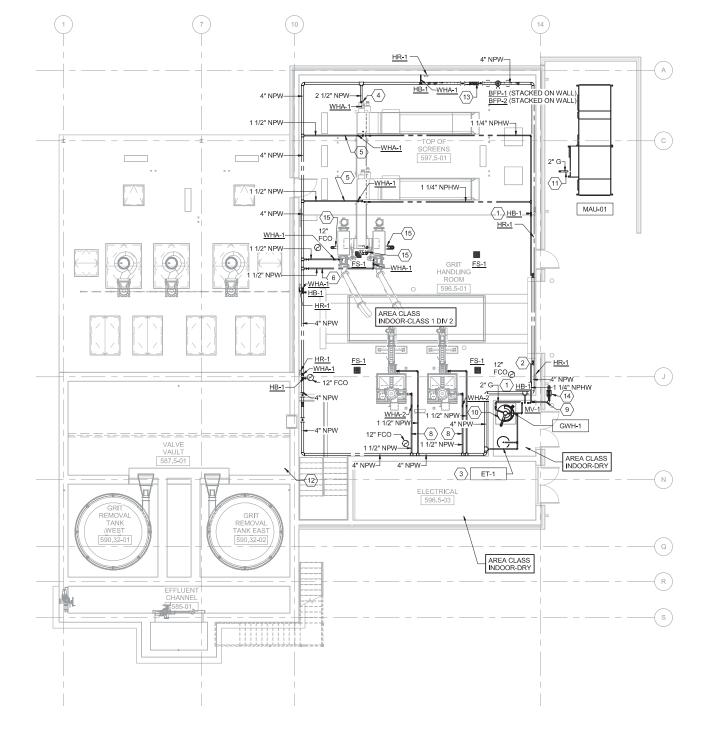
GENERAL NOTES

- 1. REFER TO 00P502 FOR PLUMBING MATERIAL LIST
- 2. REFER TO 4/00P501 FOR PIPE HANGER INSTALLATION DETAIL.
- 8. ALL INTERIOR/EXTERIOR WALL PENETRATIONS SHALL BE SEALED AIRWATER TIGHT. REFER TO 2/00M502 FOR PIPE PENETRATION THRU
- PROVIDE SHUTOFF VALVES IN CW/HW BRANCHES TO ALL PLUMBING FIXTURES AND PROCESS EQUIPMENT. PROVIDE SHUTOFF VALVES WITH DIRT LEG AT CONNECTIONS TO ALL GAS FIRED EQUIPMENT.
- 5. NO PIPING SHALL BE ROUTED OVER ELECTRICAL EQUIPMENT.
- FINISHED FLOOR ELEVATION = 0-0". INVERT ELEVATIONS LISTED ARE FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE EXACT INVERT ELEVATIONS IN THE FIELD WITH OTHER TRADES.
- 7. ALL EQUIPMENT, DEVICES, WIRING, CONDUIT, ETC. INSTALLED IN CLASS 1 DIV 2 SPACE SHALL MEET OR EXCEED CLASS 1 DIV 2 CLASSIFICATION REQUIREMENTS.
- 8. PROVIDE MANUAL ISOLATION VALVES AT ALL NPW CONNECTIONS TO EQUIPMENT IF NOT PROVIDED BY EQUIPMENT MANUFACTURER.
- PIPE SUPPORTS ARE NOT SHOWN FOR ALL PIPING SYSTEMS. SUPPORT ALL PIPING IN ACCORDANCE WITH SECTION 40 05 07.

KEY NOTES (X)

- 1 1" NPW DOWN TO HB-1/WH-1. PROVIDE SHUTOFF VALVE IN VERTICAL.
- 2 STACK PIPING ON EXTERIOR WALL.
- 3 EXPANSION TANK LOCATED IN PIPING ABOVE.
- 4 ROUTE 2-1/2" NPW TO SCREENING SLUICE, REFER TO PROCESS PLANS FOR CONTINUATION.
- 5 ROUTE 1-1/2" NPW TO FINE SCREEN. REFER TO PROCESS PLANS FOR CONTINUATION.
- ROUTE 1-1/2" NPW TO SCREENING WASHER COMPACTOR. REFER TO PROCESS PLANS FOR CONTINUATION.
- 7 ROUTE 1" NPW TO GRIT REMOVAL UNIT. INSTALL WHA-1 IN 1" NPW WITHIN VALVE VAULT 587.5-01 IN ACCESSIBLE LOCATION. REFER TO PROCESS PLANS FOR CONTINUATION.
- 8 ROUTE 1-1/2" NPW TO GRIT WASHER/DEWATERING UNIT. REFER TO PROCESS PLANS FOR CONTINUATION.
- ROUTE GAS PIPING TO GAS-FIRED WATER HEATER, PROVIDE SHUT-OFF VALVE, PRESSURE REDUCING VALVE AND DIRT LEG AT CONNECTION TO GAS FIRED WATER HEATER, PRESSURE REDUCING VALVE SHALL BE SIZED TO REDUCE GAS PRESSURE FROM 2 PSI TO ACCEPTABLE WATER HEATER GAS PRESSURE AT FULL RANGE OF OPERATION. ROUTE PRESSURE REDUCING VALVE VENT UP THROUGH ROOF AND TERMINATE WITH DOWN TURNED ELBOW.
- 10 ROUTE WATER HEATER COMBUSTION AIR/FLUE THROUGH ROOF. COORDINATE EXACT SIZE AND ROUTING WITH WATER HEATER MANUFACTURER. REFER TO 2/00P501 FOR GAS FIRED WATER HEATER DETAIL
- 11 ROUTE GAS PIPING TO MAU-01.PROVIDE SHUT-OFF VALVE, PRESSURE REDUCING VALVE AND DIRT LEG AT CONNECTION TO MAKEUP AIR UNIT. PRESSURE REDUCING VALVE SHALL BE SIZED TO REDUCE GAS PRESSURE FROM 2 PSI TO ACCEPTABLE MAU-01 GAS PRESSURE AT FULL RANGE OF OPERATION.
- 12 1" NPW UP TO HB-1 LOCATED 24" ABOVE TOC GRIT STRUCTURAL LEVEL (209'). PROVIDE SHUTOFF VALVE IN VERTICAL. PROVIDE ASSOCIATED HR-1 24" ABOVE TOC GRIT STRUCTURAL LEVEL (209')
- 13 BACKFLOW PREVENTERS ON WALL. REFER TO 3/00P501 FOR WATER SERVICE ENTRANCE DETAIL.
- METER/PRESSURE REGULATOR, COORDINATE EXACT SITE GAS MAIN PRESSURE WITH UTILITY. IF MAIN PRESSURE IS HIGHER THAN 2 PSI, PROVIDE GAS PRESSURE REGULATOR IN VERTICAL GAS MAIN OUTSIDE THE BUILDING SIZED FOR 1200 CFH ATINCOMING PRESSURE DOWN TO 2 PSI, PROVIDE SHUTOFF VALVE IN VERTICAL GAS MAIN ON EITHER SIDE OF PRESSURE REDUCING VALVE. IF PRESSURE REDUCING VALVE IS NOT NEEDED. THEN PROVIDE A SINGLE SHUTOFF VALVE ON QUITSIDE MAIN
- 15 6" DRN UP TO EXTEND TO EQUIPMENT DRAIN DISCHARGE. REFER TO PROCESS PLANS FOR CONTINUATION.

HEADWORKS FACILITY



596.5 FINISH FLOOR GRIT HANDLING ROOM PLUMBING FLOOR PLAN

incorporated ENGINEERS | ARCHITECTS CA 0049 (ARCH) RENEWAL DATE: 6:30-2019



		PROJECT MANAGER	JOEL CANTWELL
		CIVIL	T. TOWNSEND
		STRUCTURAL	S. LOEFFLER
		ARCHITECTURAL	K. REEVE
		PROCESS	T. TOWNSEND
		MECHANICAL	B. PERLBERG
		PLUMBING	B. PERLBERG
0 12/21/2017 ISSUE	D FOR CONSTRUCTION	ELECTRICAL	D. BESINGER
ISSUE DATE DE	SCRIPTION	PROJECT NUMBER	10026444





BROKEN ARROW MUNICIPAL AUTHORITY CITY OF BROKEN ARROW, OK

LYNN LANE WWTP
HEADWORKS IMPROVEMENTS





Summary of FAP Loan Expenditures

Total Loan amount: \$11,200,000.00

Construction Contract award: \$9,772,200.00

Change Order #1: \$109,954.37 Change Order #2: \$90,750.00 Change Order #3: \$132,012.66 Change Order #4: \$406,100.00

Amended Construction Contract: \$10,511,017.00

Construction Assistance: \$375,928.00 Total Project Costs To-Date: \$10,886,945.00

Loan value remaining: \$313,055.00

Value remaining of Construction Contract Changes per CBA: 2.5% or \$238,402.97

Gas Line Proposed Change Order:

Installation of 2" poly gas line from Headworks to main entrance meters

- o Cost:\$62511.74
 - Revised Project Cost \$10,573,528.77
 - % change to CBA: 8.2%
 - Remaining Change Order Value: \$175,891.23
 - Loan Value Remaining: \$250,543.23

Additional Known Costs:

- ONG Gas Line installation
 - o Cost: \$48,370.00