



June 12, 2024

Mr. Andrew Mishler, PE  
City of Oklahoma City  
420 W. Main St., Suite 500  
Oklahoma City, OK 73102

Subject: WT-0151 Ozone System Expansion/Upgrades Hefner WTP  
DWSRF Project No. P40-102092-09 and P40-1020902-10  
**Letter of Approval PCO-033\_Chemical Feed Vault Replacement**

Dear Mr. Mischler:

The purpose of this letter is to provide background and the results of Carollo's (Engineer's) review of the potential change order (PCO) No. 033 for the above-referenced project. This PCO relates to the additional labor material, and equipment necessary to procure, install, test, and place into successful working operation a new cast in place concrete chemical feed vault on the existing 84-inch common filter effluent line connecting the filters to the clearwells for the purposes of feeding ammonia (liquid ammonium sulfate) and corrosion inhibitor (zinc Orthophosphate – ZOP).

As you are aware, the project included modification of the existing chemical feed vault to install a new sample pump and sample line for the purposes of monitoring free chlorine disinfection prior to ammonia addition. Unfortunately, the existing chemical feed vault and 84-inch pipe below was found to not be structurally sound because of chemical leakage from the ZOP line. As a result, temporary shoring was put in place to reinforce the vault to allow for operations but given the condition, Carollo recommended the construction of a new vault, repair of the 84-inch pipe and demolition of the existing vault. Consequently, the PCO includes the removal of the existng shoring, demolition of the existing chemical feed vault, and repair of the 84-inch line.

We have reviewed the contractor's proposal (attached) and find it to be a reasonable proposal for the additional scope of work and recommend inclusion of this PCO in the next available change order. The proposal includes both applicable Unit Pricing available for the work with the remaining work proposed as a lump sum amount.

Sincerely,  
CAROLLO ENGINEERS, INC.

Thomas O. Crowley, PE  
Project Manager

AuthorInitials:tc

Enclosures: PCO33 Engineering Documents

Mr. Andrew Mishler, PE  
City of Oklahoma City  
June 12, 2024

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PCO33 Response Version 2 from Contractor

cc: Mr. Dan Ethington, PE Carollo Engineers  
Mr. Larry Hare, PE City of Oklahoma City



Mr. Andrew Mishler, PE  
City of Oklahoma City  
June 12, 2024

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PCO 33 – Contractors Proposal





February 8, 2024

Mr. Mitch Ralston, PE  
Crossland Heavy Contractors  
Jobsite Trailer  
c/o Hefner Water Treatment Plant  
4000 NW 108<sup>th</sup>  
Oklahoma City, OK 73120

Subject: Potential Change Order (PCO-033) – Chemical Vault Feed Vault Replacement  
Project WT-0151 – Ozone System Expansion/Upgrades at the Hefner Water Treatment  
Plant  
**DWSRF Project No. P040-1020902-09 and P040-1020902-10**

Dear Mr. Ralston:

This potential change order addresses the following. -

1. Excavation, shoring, dewatering, and temporary piping supports as necessary to construct a new cast in place concrete chemical feed vault to replace the existing deteriorated precast concrete chemical feed vault on the existing 84-inch filtered water pipe. This will permit continued safe access to the chemical vault where ZOP, LAS, and CLS is injected prior to entering the clearwells.
2. Relocation of ¾"SA, 1-1/2"-LAS, 1-1/2"-ZOP, 4"-DRN, and 6"-CLS yard piping to connect from existing vault to new chemical feed vault. Including all temporary valves, piping necessary for sequencing.
3. Relocation of the sample pump and control panel and extension of conduit/wires and ¾" SA piping necessary to install, test, and commission sample pump with new analyzers installed as part of this project.
4. Installation, testing, and commissioning of new 1-1/2"-ZOP, 1-1/2" LAS, and 6"-CLSdi insulated piping, valves, and diffusers inside the new cast in place concrete vault.
5. Removal and salvage of existing shoring within the deteriorated chemical vault and partial demolition of the vault.
6. Removal of existing diffusers and patching of damaged areas of 84-inch pipe. Recoating of interior and exterior of existing pipe in areas of both old and new vault as specified herein.
7. Disinfection of 84-inch line following repairs.
8. Backfill, compact, replace concrete apron as necessary and provide sodding in accordance with specifications.

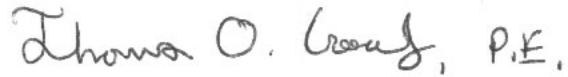
If the work required by this PCO requires an adjustment to contract price or contract time, please follow the requirements of Special provisions, Articles 10 and 36 which require a detailed breakdown of material, labor, equipment costs including invoices from suppliers regarding materials purchased. Breakdown of labor shall be based on classification of labor in accordance with certified payroll. See article 36 of the special provisions. All (including special tools and safety equipment, incidentals) shall be included in the 10 percent permitted markup in accordance with Article 10.

Mr. Mitch Ralston, PE  
Crossland Heavy Contractors  
Jobsite Trailer  
February 8, 2024

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Please reach out to me if you have any questions or concerns regarding this PCO-033.

Sincerely,  
CAROLLO ENGINEERS, INC.

A handwritten signature in black ink that reads "Thomas O. Crowley, P.E." The signature is written in a cursive, flowing style.

Thomas O. Crowley, PE  
Project Manager

AuthorInitials:tc

Enclosures:

Attachment A – Modifications to Contract Drawings

Attachment B – Modifications to Contract Specifications.

cc:Mr. Andrew Mishler, PE – City of Oklahoma City

Mr. Larry Hare, PE – City of Oklahoma City

Mr. Will Huggins, PE – City of Oklahoma City

Mr. Jeff Bolden – City of Oklahoma City

Mr. William Waller – City of Oklahoma City

Mr. Kwasi Duose, Carollo Engineers

Mr. Richard Taylor – Hefner WTP Inspector

Mr. Lou Scantana, PE – Carollo Engineers

Mr. Dan Ethington, PE – Carollo Engineers

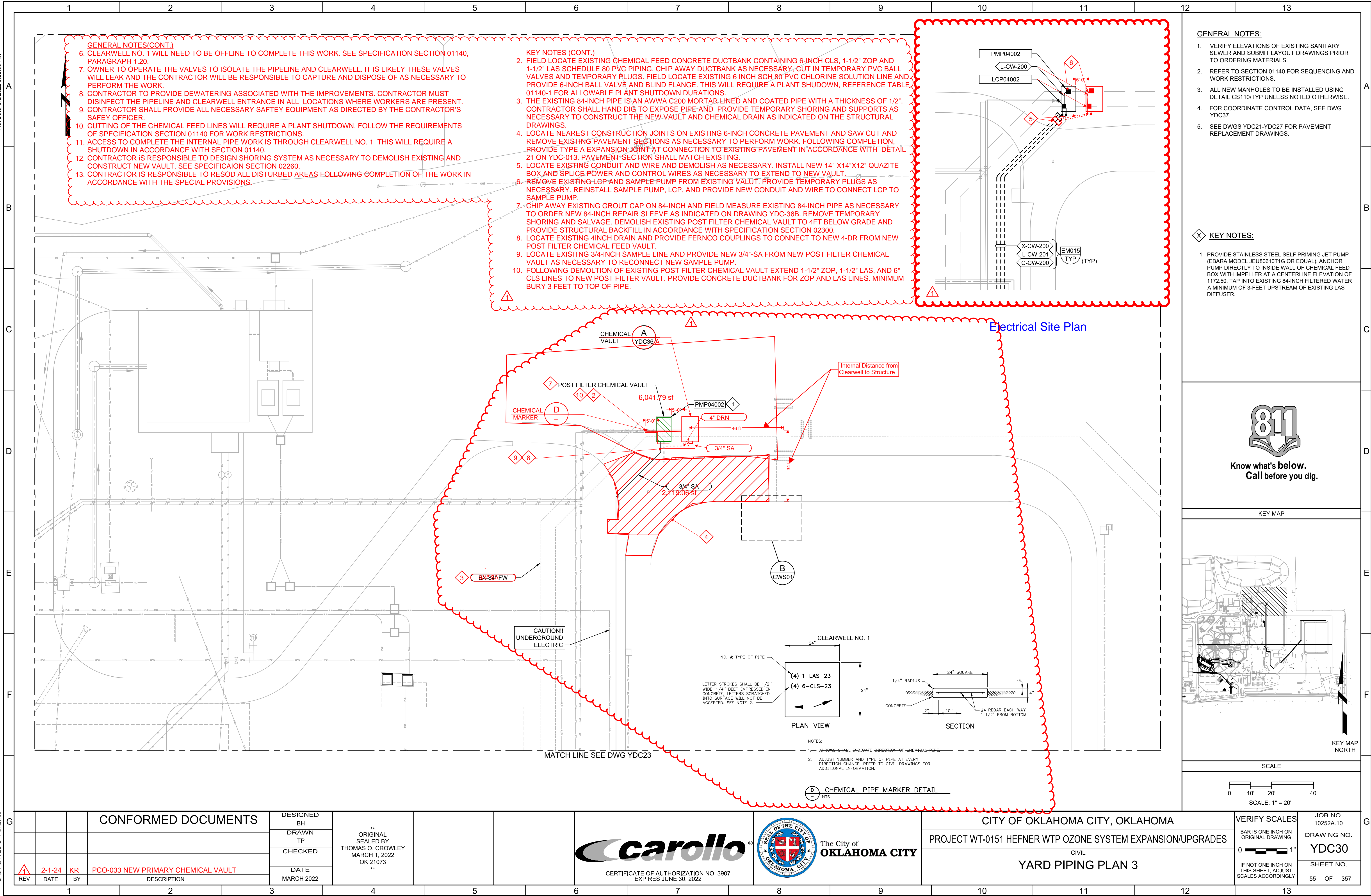


## ATTACHMENT A – Modifications to Contract Drawings



Plot Date: 5/5/2022 9:28:09 AM

LAST SAVED BY: bbraves

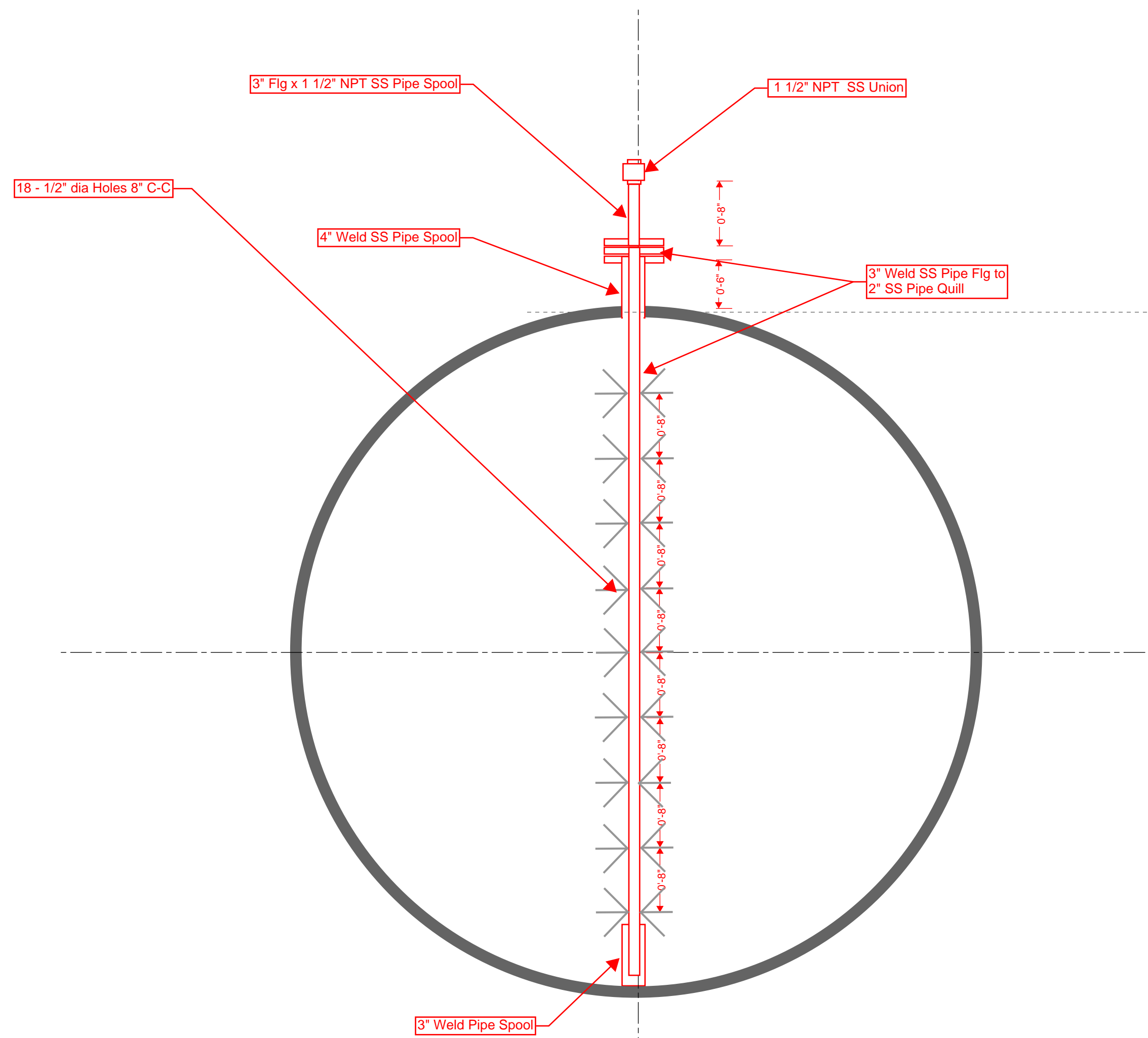




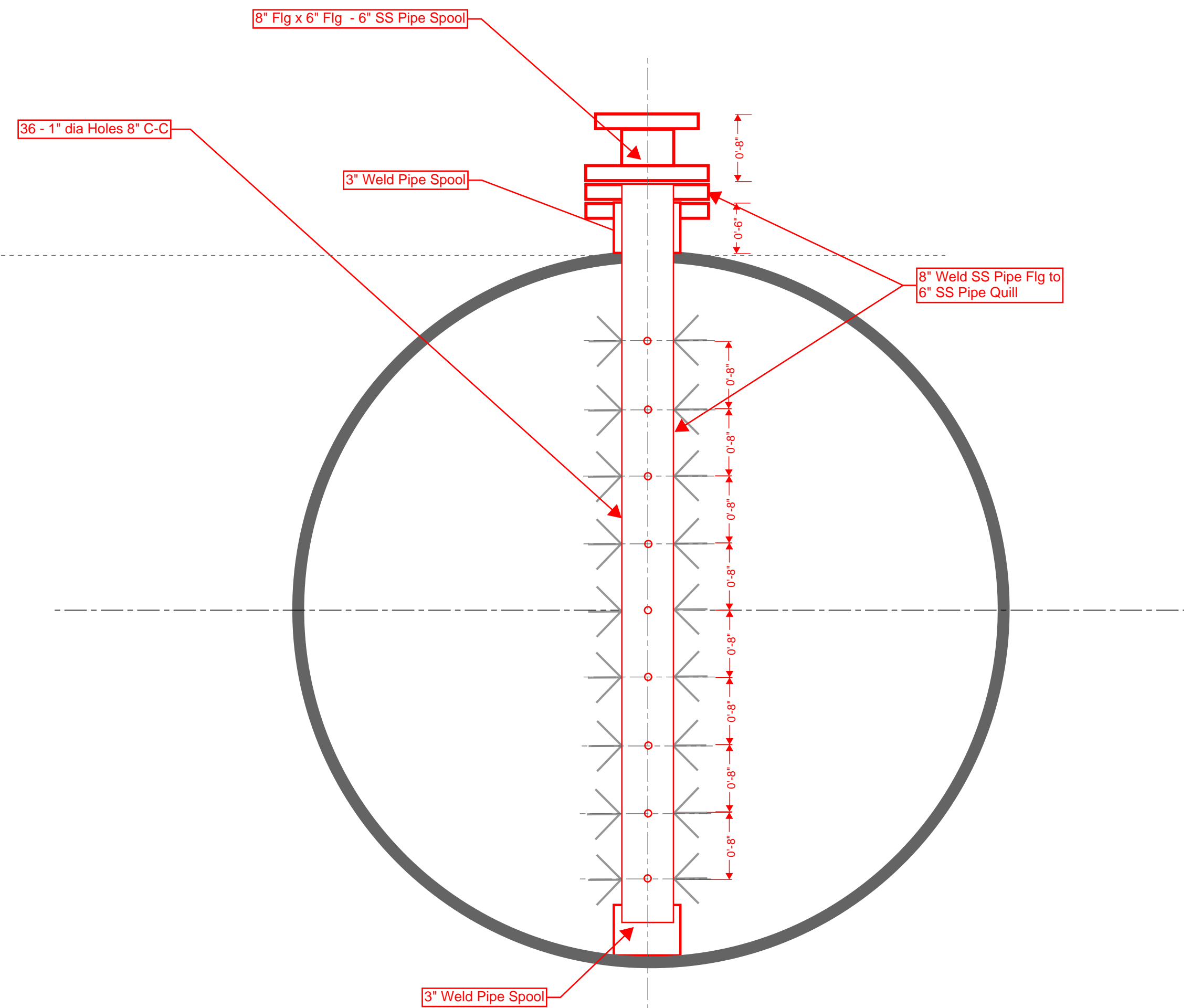




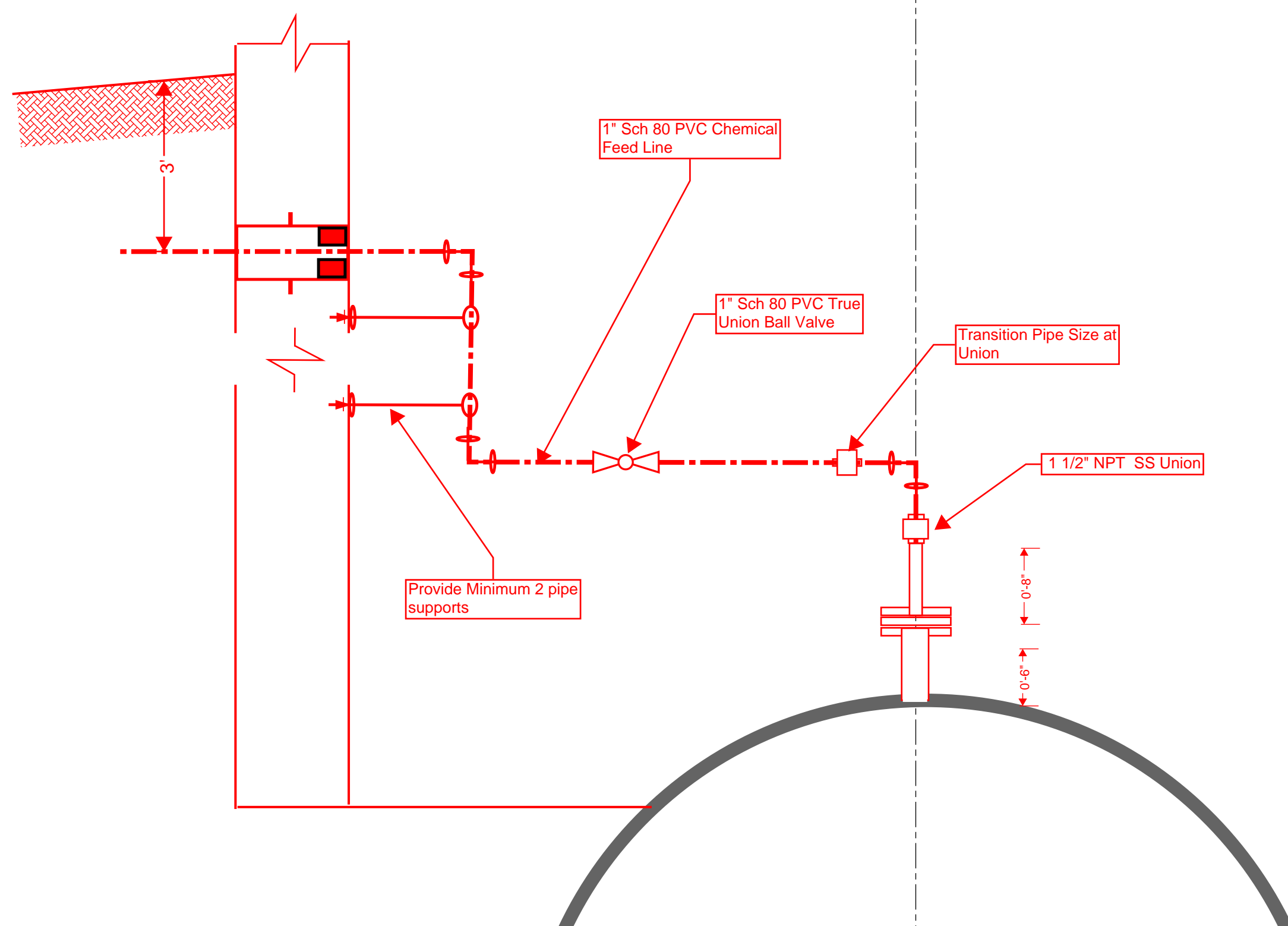




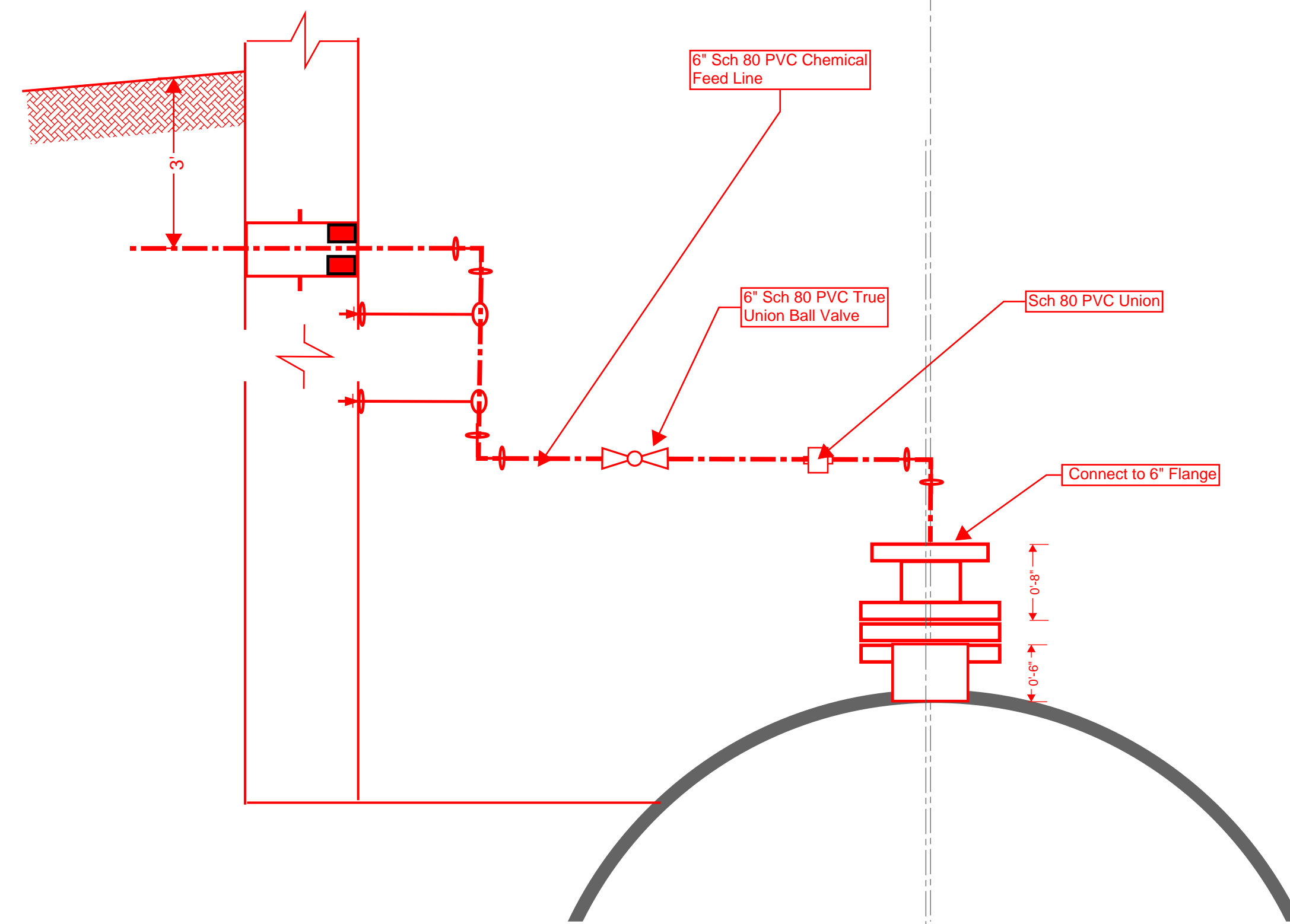
LAS Chemical Feed Quill



CLS Chemical Feed Quill



LAS Chemical Feed Lines



CLS Chemical Feed Line

Attachment B – Modifications to Contract Specifications.



May 22, 2024

Hefner Water Treatment Plant Ozone System Expansion/Upgrades  
WT-0151  
Potential Change Order  
New Chemical Vault



To Whom It May Concern,

The following cost proposal is for work to construct a new Chemical Vault and demolish the existing per the attached documents provided by Carollo dated 2/8/2024.

Conditions of proposal:

- Hatch, walls, and roof deck to be constructed per RFI 26 response
- Drain Line and concrete fill around pipe to be installed per RFI 28 response
- Roof Vent to be installed per RFI 34 response
- Reinforcement in concrete fill around pipe to be installed per RFI 36 response
- Backfill of vault will follow RFI 40 response if required
- 6" Chlorine Diffuser to be PVC per submittal 11242C.002.1 instead of FRP
- This quote is valid with the understanding that work will begin during the summer of 2024 and be completed in the fall of 2024 with the interior pipe work of the 84" pipe to be completed in the in Winter shutdown period of 2024-2025. If work is to be completed at a different time, a price adjustment may be required.

The total lump sum requested to complete this work is \$610,000.00. See below breakdown utilizing existing Unit Prices.

Bid Item	UOM	Unit Price	QTY.	Extended Price
#16: Waterproof Slurry	LF	\$25.00	729	\$18,225.00
#19: Select Backfill	CY	\$38.00	250	\$9,500.00
#21: #57 Stone	CY	\$54.00	17	\$918.00
#23: Concrete Paving	SY	\$88.00	250	\$22,000.00
#25: Sodding	SY	\$7.50	650	\$4,875.00
#42: Ductbank	LF	\$365.00	27	\$9,855.00
PCO 33: New Vault	LS	- -	1	\$544,627.00
<b>Total</b>				<b>\$610,000.00</b>

Attached is an additional breakdown of the proposal. Should you have any questions or comments please feel free to contact me at 316.208.5585.

Respectfully,

**Mitch Ralston**  
Project Manager  
Crossland Heavy Contractors, Inc.





## Hefner Water Treatment Plant Ozone System Expansion/Upgrades

## Cost Breakdown

Project No. WT-0151 Date 5/22/2024Entity Oklahoma City Water Utilities Trust Contractor Crossland Heavy ContractorsDescription of Work New Chem Feed Vault

1. a) <b>Labor Total</b> (Refer to Attachment A)		\$	122,575.02
b) Labor Overhead & Profit	1.a) x 18.00% =	\$	22,063.50

2. a) <b>Material Total</b> (Refer to Attachment B)		\$	50,096.24
b) Material Overhead & Profit	2.a) x 18.00% =	\$	9,017.32

3. a) <b>Equipment Total</b> (Refer to Attachment C)		\$	56,812.50
b) Equipment Overhead & Profit	3.a) x 18.00% =	\$	10,226.25

4. a) <b>Subcontracted Work Total</b>		\$	175,962.20
b) Prime Contractor Overhead on Subcontracted Work	4.a) x 18.00% =	\$	31,673.20

5. a) <b>Workers Compensation</b>	1.a) / 100 x \$ 1.40 =	\$	1,716.05
b) <b>Unemployment Insurance Contribution</b>	1.a) x 3.80% =	\$	4,657.85
c) <b>Social Security Taxes</b>	1.a) x 7.65% =	\$	9,376.99
d) <b>Employee Fringe Benefits</b>	1.a) x 20.00% =	\$	24,515.00

6. a) <b>Subtotal Cost of Work</b>	1. + 2. + 3. + 4. + 5. =	\$	518,692.12
b) <b>General/Administrative</b>	6.a) x 2.50% =	\$	12,967.30
c) <b>Bonds</b>	6.a) x 1.00% =	\$	5,186.92
d) <b>Property Damage &amp; Liability Insurance</b>	6.a) x 1.50% =	\$	7,780.38

7. <b>Total Cost of Work</b>	Unit Price	\$	544,626.73	Quantity	1	Unit of Measure	LS	\$	<b>544,626.73</b>
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Attachment A - Labor Total

Contract ID: WT-0151

Description: New Chem Feed Vault

Labor Classification	No.	Rate/Hour	Total Hours	Total for Each Labor Class
Foreman (Pipe and Carpenter)		\$ 65.00	420	\$ 27,300.00
Skilled Laborer		\$ 38.77	996	\$ 38,614.92
Operator		\$ 56.00	420	\$ 23,520.00
Skilled Carpenter		\$ 45.81	210	\$ 9,620.10
Superintendent		\$ 112.00	210	\$ 23,520.00
Labor Total				\$ 122,575.02

**Attachment B - Material Total**Contract ID: WT-0151Description: New Chem Feed Vault

Material Item	Unit	Contractor's Cost	Quantity	Material Amount
Grout	EA	\$ 16.55	33	\$ 546.15
Concrete	YD	\$ 176.00	48	\$ 8,448.00
Visqueen	SF	\$ 0.11	1100	\$ 116.39
1" Neoprene Exp Jt	SF	\$ 36.00	72	\$ 2,592.00
Waterstop	LF	\$ 4.35	51	\$ 221.61
Reinforceing Steel	TN	\$ 1,666.05	4.6	\$ 7,663.85
Davit Crane Base	EA	\$ 1,575.14	1	\$ 1,575.14
Site Pipe - Ferguson	LS	\$ 6,748.33	1	\$ 6,748.33
Confined Space Monitoring	LS	\$ 1,629.45	1	\$ 1,629.45
Demolition Safety	LS	\$ 1,086.30	1	\$ 1,086.30
Dewatering Pumps	LS	\$ 2,715.75	1	\$ 2,715.75
Pipe/Equipment Testing	LS	\$ 1,194.93	1	\$ 1,194.93
Formwork	LS	\$ 11,670.34	1	\$ 11,670.34
Misc. Metals	LS	\$ 3,888.00	1	\$ 3,888.00
Material Total				\$ 50,096.24

**Attachment C - Equipment Total**Contract ID: WT-0151Description: New Chem Feed Vault

Equipment Type	No.	Cost/Hour	Total Hours	Amount for Each Type
Skidsteer CAT 289D	HR	\$ 46.72	60	\$ 2,803.20
Loader	HR	\$ 56.41	100	\$ 5,641.00
Lull 10k#	HR	\$ 62.15	20	\$ 1,243.00
Excavator 336	HR	\$ 152.65	230	\$ 35,109.50
Water Pump	HR	\$ 34.38	40	\$ 1,375.20
Breaker	HR	\$ 29.53	20.00	\$ 590.60
Pump Truck	HR	\$ 350.00	5	\$ 1,750.00
Pump Truck Set Fee	EA	\$ 100.00	3	\$ 300.00
Equipment Mobilization	EA	\$ 8,000.00	1	\$ 8,000.00
<b>Equipment Total</b>				\$ 56,812.50



**Attachment D - Subcontractor**Contract ID: WT-0151Description: New Chem Feed Vault

Description - Subcontractor	Unit	Rate/Unit	Total Units	Total for Each Subcontractor
Shoring Engineering	LS	\$ 5,000.00	1.00	\$ 5,000.00
Dump Truck Sub	HR	\$ 318.75	8.00	\$ 2,550.00
Shoring Rent - United Rentals	MO	\$ 22,812.30	4.00	\$ 91,249.20
Vac Truck	DY	\$ 2,500.00	3.00	\$ 7,500.00
Rebar Tie - Texoma	TN	\$ 650.00	4.60	\$ 2,990.00
Saw & Seal	SY	\$ 2.00	312.5	\$ 625.00
Mechanical - Kuhn	LS	\$ 65,548.00	1	\$ 65,548.00
Instrument - Haynes	LS	\$ 500.00	1	\$ 500.00
Subcontractor Total				\$ 175,962.20

					Yard	\$	6,212.22	
Description					QTY	UM	UNIT PRICE	TOTAL
	6" CLS							
	YARD - PVC							
	6" PVC SCH 80 SLIP COUPLING	2	EA	\$	62.14	\$	124.28	
	6" X 20' IPS SCH80 PE GRAY PVC PIPE	60	LF	\$	20.84	\$	1,250.40	
	6" PVC SCH 80 SLIP 90 ELL	2	EA	\$	74.63	\$	149.26	
	VALVE	1	EA	\$	1,200.00	\$	1,200.00	
	6" PVC SCH 80 SLIP 45 ELL	2	EA	\$	89.68	\$	179.36	
	6" PVC SCH 80 SLIP CAP	1	EA	\$	89.68	\$	89.68	
						\$	-	
						\$	-	
	1" LAS					\$	-	
	YARD - PVC					\$	-	
	1" X 20' IPS SCH80 PE GRAY PVC PIPE	60	LF	\$	1.69	\$	101.40	
	1" PVC SCH 80 SLIP 90 ELL	2	EA	\$	3.79	\$	7.58	
	1" PVC SCH 80 SLIP 45 ELL	2	EA	\$	7.92	\$	15.84	
	1" PVC SCH 80 SLIP COUPLING	2	EA	\$	4.64	\$	9.28	
	1" SCH 80 PVC BALL VALVE TRU-UNION W/ SOLVENT WELD ENDS & LEVER OP	1	EA	\$	57.10	\$	57.10	
	1" PVC SCH 80 CAP	1	EA	\$	7.42	\$	7.42	
						\$	-	
						\$	-	
	1" ZOP					\$	-	
	YARD - PVC					\$	-	
	1" X 20' IPS SCH80 PE GRAY PVC PIPE	60	LF	\$	1.69	\$	101.40	
	1" PVC SCH 80 SLIP 90 ELL	2	EA	\$	3.79	\$	7.58	
	1" PVC SCH 80 SLIP 45 ELL	2	EA	\$	7.92	\$	15.84	
	1" PVC SCH 80 SLIP COUPLING	2	EA	\$	4.64	\$	9.28	
	1" SCH 80 PVC BALL VALVE TRU-UNION W/ SOLVENT WELD ENDS & LEVER OP	1	EA	\$	57.10	\$	57.10	
	1" PVC SCH 80 CAP	1	EA	\$	7.42	\$	7.42	
						\$	-	
						\$	-	
	1" SAMPLE LINE					\$	-	
	YARD - PVC					\$	-	
	1" X 20' IPS SCH80 PE GRAY PVC PIPE	60	LF	\$	1.69	\$	101.40	
	1" PVC SCH 80 SLIP 90 ELL	2	EA	\$	3.79	\$	7.58	
	1" PVC SCH 80 SLIP 45 ELL	2	EA	\$	7.92	\$	15.84	
	1" PVC SCH 80 SLIP COUPLING	2	EA	\$	4.64	\$	9.28	
	1" SCH 80 PVC BALL VALVE TRU-UNION W/ SOLVENT WELD ENDS & LEVER OP	1	EA	\$	57.10	\$	57.10	
	1" PVC SCH 80 CAP	1	EA	\$	7.42	\$	7.42	
						\$	-	
						\$	-	
	DRAIN - PVC					\$	-	
	6" X 8" PE X WC X PE WALLSLEEVE	1	EA	\$	425.04	\$	425.04	
	LINK SEAL	10	EA	\$	17.68	\$	176.80	
	FLOOR SINK: SIZE 4", 12" SQ TOP	1	EA	\$	1,706.25	\$	1,706.25	
	4" 90 BEND	1	EA	\$	74.63	\$	74.63	
						\$	-	
						\$	-	
	MISC.					\$	-	
	1 QT PVC CLR CLNR C65	2	EA	\$	24.19	\$	48.38	
	1 QT PVC PURP PRMR P70	2	EA	\$	40.41	\$	80.82	
	1 QT CPVC HVY LOW VOC CMNT GRAY	2	EA	\$	55.73	\$	111.46	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	

## Mitch Ralston

---

**From:** Jason Buckner <jason.baselinemfg@gmail.com>  
**Sent:** Friday, April 26, 2024 12:21 PM  
**To:** Mitch Ralston  
**Subject:** Re: Hefner - Vault Quote

**EXTERNAL EMAIL:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mitch, the ladder with hatch for the new vault is 3,579.00 delivered. Let me know how to proceed items currently have a 8-9 week lead times and getting worse just fyi. Halliday I'm assuming is crazy backed up obviously

Jason

On Tue, Apr 23, 2024 at 6:21 PM Mitch Ralston <[mralston@heavycontractors.com](mailto:mralston@heavycontractors.com)> wrote:  
You can delete the sump grating and embeds from the list.

---

### Crossland Heavy Contractors

Mitch Ralston  
Project Manager  
[408 NE 145<sup>th</sup>](#) Place  
Oklahoma City, OK 73013  
Cell (316)208-5585

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**From:** Jason Buckner <[jason.baselinemfg@gmail.com](mailto:jason.baselinemfg@gmail.com)>  
**Sent:** Tuesday, April 23, 2024 5:42:03 PM  
**To:** Mitch Ralston <[mralston@heavycontractors.com](mailto:mralston@heavycontractors.com)>  
**Subject:** Re: Hefner - Vault Quote


**EXTERNAL EMAIL:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Yes sir will do.

Jason

On Tue, Apr 23, 2024 at 10:31 AM Mitch Ralston <[mralston@heavycontractors.com](mailto:mralston@heavycontractors.com)> wrote:

Jason,

<b>Sunstate Equipment Co. - Trench Safety</b> Excavation Safety - Confined Space - Training - Equipment Account Manager: Gordon Hegeman Mobile: 405-568-0712 Email: <a href="mailto:gordon.hegeman@sunstateequip.com">gordon.hegeman@sunstateequip.com</a>				<b>Branch Location</b> Address: 5055 S. Eastern Avenue OKC, OK. 73129 Phone: 405-594-8624		 <b>TRENCH SAFETY</b> A Division of Sunstate Equipment Co.					
<b>Customer Information</b> <b>Date:</b> 3/26/24 Company: <b>CROSSLAND HEAVY CONTRACTORS</b> Attention: <b>CHANCE TUCKER</b> Phone: 620-210-0684 email: <a href="mailto:CTUCKER@HEAVYCONTRACTORS.COM">CTUCKER@HEAVYCONTRACTORS.COM</a>				<b>Job Information</b> Name: <b>PCO 33 Chemical Feed Vault Replacement</b> Address: <b>Hefner Water Treatment Plant</b> Contact: <b>Chance Tucker</b> Phone: <b>620-210-0684</b>		<b>Job/PO Number -</b>					
QTY	Description			<b>Day Rate</b>		<b>Week Rate</b>		<b>Month Rate</b>		Sales Items	Sales Items
				Each Day	Total	Each Week	Total	Each Month	Total	Each	Total
	Depth:	Length:	Width:	Clear Span (yes/no):							
	24	16	16	YES							
1	Fully inclusive slide rail system			\$2,275.00	\$2,275.00	\$6,805.00	\$6,805.00	\$21,000.00	\$21,000.00		
1	Onsite Consultation: Install Fee (\$500/Day)									\$ 500.00	\$ 500.00
1	Site Specific Engineering (if applicable)									\$ 1,750.00	\$ 1,750.00
1	Freight									\$ 4,000.00	\$ 4,000.00
<b>Rental Totals(Excluding Tax &amp; Delivery):</b>				<b>\$2,275.00</b>		<b>\$6,805.00</b>		<b>\$21,000.00</b>		<b>Total Sales</b>	<b>\$ 6,250.00</b>
				<b>Day</b>		<b>Week</b>		<b>Month</b>			

**Special Notes-**

Proposed system based on information provided. Adverse site and soil conditions may affect design and engineering. Contractor responsible to de-water to depth of excavation.

We appreciate the opportunity to quote your upcoming shoring requirements and look forward to working with you on this project.

	Per Truck	# Loads	Total Frieght
Delivery:	\$500.00	4	\$2,000.00
Pick-up:	\$500.00	4	\$2,000.00
****Frieght based on 35,000 lbs per load.			

\*\*Quote subject to any and all Applicable Taxes, Customer Protection Plan, or Fee's;

This bid is based on estimated total items and rental duration. Changes to any of these assumptions will change the total cost. This bid is subject to equipment availability at the time of order. This bid is subject to all terms and conditions of Sunstate Equipments Rental Agreement. This quote is valid for 30 days.





# Kinard Painting & Sandblasting, Inc.

P.O. BOX 713 - WYNNEWOOD, OKLAHOMA 73098 - BUS./FAX (405) 665-2324

Date: 05/08/24

**Ref: PCO33 – Belzona Painting & Mortar Lining Application.**

Dear Sir,

Kinard painting and Sandblasting, Inc is Pleased to have the opportunity to provide to you, our quote.  
For the above referenced project our proposal is as follows:

**PAINT SCHEDULE:** Coating requirements for various elements of the project are as noted below:.

<b>Lake Hefner WTP Ozone PCO33</b>	
Surface Prep & Coat using belzona on exterior repairs of existing 84" pipe. Apply mortar lining to interior repairs of 84" pipe.	<b>\$11,725.00</b>
Disinfection of 84" pipe per AWWA C652-11 Method II.	<b>\$3,000.00</b>

- Mortar lining materials to be provided by CHC.

We appreciate the opportunity to be of service to you and your company should you have any questions or require any additional assistance please do not hesitate to call.

Best Regards

Chris Kinard, V.P.

## Mechanical Contractors

400 E. Central – Link 5  
PO Box 1022  
Ponca City, OK 74601  
(800) 620-3019

## Proposed Change Request

**Date:** 05/03/2024

**Att:** Mitch Ralston – Crossland Heavy Construction

**Re:** Hefner WTP Ozone Expansion – Chemical Feed Vault Replacement

**Scope of Work:** Piping/welding labor and materials to install (4) chemical lines and associated taps for the construction of new chemical feed vault. We have included the following clarifications, exclusions, and stipulations to our scope.

**Clarifications:** Bid amount includes the following clarifications to our scope of work.

### 1. Existing Vault:

1	Cut off (4) existing feed taps and weld patch plates to existing 84" pipe.
2	Cut off (3) existing chemical feed supports within 84" pipe.
3	Demo chemical/sample piping within vault.
4	Fabricate diffusers and diffuser supports - (1x) 6" CLS, (1x) 2" LAS
5	Remove existing sample pump for relocation (control panel by others).

### 2. New Vault:

6	ZOP Tap & Piping within vault (1-1/2" Sch 80 PVC)
	1-1/2" weldlet, cut hole
	Install SAFE-T-FLO MODEL HS150-S-A-24-0-05 injection quill.
	1.5" Tee with MHPT drain valve
	Piping and wall supports (3)
7	CLS Tap & Piping within vault (6" Sch 80 PVC)
	8" steel flange with fillet weld.
	Install 6" prefabricated injection quill.
	Install quill support at bottom of 84" pipe. Add poly spacers.
	96" Spool piece above quill
	Tee with MHPT drain valve
	Piping and wall supports (3)
	6" True Union Ball Valve
8	LAS Tap & Piping within vault (1.5" Sch 80 PVC)
	4" flange with fillet weld.
	Install 1.5" prefabricated injection quill.
	Install quill support at bottom of 84" pipe. Add poly spacers.
	Tee with MHPT drain valve
	Piping and wall supports (3)
	1" True Union Ball Valve



## Mechanical Contractors

400 E. Central – Link 5  
PO Box 1022  
Ponca City, OK 74601  
(800) 620-3019

9	Sample Water Tap & Piping within vault (Stainless Steel)
	3" flange with fillet weld.
	1.5" pipe with foot valve
	1.5" SS Ball Valve, Unions
	Install salvaged pump
	Reduce to 3/4"
	3/4" piping and wall supports
	Clean stainless steel piping per CGA-G4.1
	Pickle exterior welds of stainless piping
10	Insulate all chemical/sample piping with 1.5" closed cell polyurethane and pvc jacket.
11	8" Schedule 10S316 SST Vent Pipe. Provide size 24 Mesh SST Insect screen sandwiched between flanges.

### Exclusions: The following are excluded from our scope of work.

1. Coatings, epoxies, painting or priming of field installed work regardless of where specified.
2. Concrete & grout work including chipping, coring, and saw-cutting.
3. Electrical power or control wiring.
4. Control, instrumentation, and safety devices not limited to motorized valves, temperature or pressure indicators, transmitters, surge protectors, analyzers, flow meters, etc.
5. Dewatering, sediment, and erosion control.
6. Piping and appurtenances not shown in drawings.
7. Yard Piping outside of vaults.
8. Sleeves & seals.
9. Valve operator extensions.
10. Disinfection of 84" pipe.

### Stipulations:

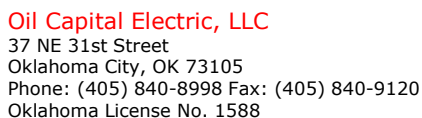
1. Proposal is dependent upon an equally acceptable and equitable contract agreement or change order.
2. Proposal is based on a 40-hour work week of 10-hours per day.
3. Project schedule shall allow for our input and sufficient working days for us to effectively perform our work.
4. Required shutdowns to be performed by GC or Owner.

**Price - \$ 65,548.00**

### \*Material Sales Tax Included

Proposal is valid for 30-days.

Thank You  
Chris Rogers  
Project Manager



Date: April 11, 2024

Project: Hefner Ozone WT-0151

To: Crossland Heavy

Change Order:

Description: Electrical per PCO-33 Relocate LCP04002, Install Quazite Box, Extend Conduit Conductors

Bond	1.00%	\$ 66.50	Subtotal Above	\$ 6,650.14
Insurance	2.00%	\$ 133.00	Subtotal Left Column	\$ 1,335.55
Material Taxes	8.63%	\$ 138.53		
Overhead	10.00%	\$ 665.01		
Profit	5.00%	\$ 332.51	<b>ALL Total</b>	<b>\$ 7,985.69</b>