



CITY OF CHANDLER JOB ORDER PROJECT AGREEMENT

Project Name: **ALMA SCHOOL WELL SITE IMPROVEMENTS**

Project No. **WA2007.402**

This JOB ORDER PROJECT AGREEMENT ("Job Order") is made this _____ day of _____ 2022 ("Effective Date"), by and between the City of Chandler, an Arizona municipal corporation, ("City") and **PCL Construction, Inc.**, a Colorado corporation, ("JOC Contractor") and is entered into pursuant to Job Order Master Agreement No. JOC1915.401 ("JOC Master Agreement"). City and JOC Contractor may be referred to individually as "Party" or collectively as "Parties").

City and JOC Contractor, in consideration of the mutual covenants herein set forth, agree as follows:

RECITALS

A. On or about January 14, 2020, the Parties entered into the JOC Master Agreement, which terms and conditions are made a part of and incorporated into this Job Order Project Agreement by this reference.

B. City proposes to engage JOC Contractor to procurement and installation of a water chlorination system, public potable water system connection, and slipline/rehabilitation of an existing 16-inch waterline crossing under Alma School Road, north of the intersection with Elliot Road as more fully described in **Exhibit "A"**, which is attached to and made a part of this Job Order by this reference.

C. JOC Contractor is ready, willing, and able to provide the services described in **Exhibit "A"** for the compensation and fees set forth and as described in **Exhibit "B"**, which is attached to and made a part of this Agreement by this reference.

ARTICLE 1. DESCRIPTION OF WORK

The Parties enter into this Job Order Project Agreement for the **ALMA SCHOOL WELL SITE IMPROVEMENTS**, Project Number **WA2007.402**. The scope of work consists of procurement and installation of a water chlorination system, public potable water system connection, and slipline/rehabilitation of an existing 16-inch waterline crossing under Alma School Road, north of the intersection with Elliot Road, all as more particularly set forth in **Exhibit "A"** attached hereto and incorporated herein by reference.

The JOC Contractor will not accept any change of scope, or change in contract provisions, unless issued in writing, as a contract amendment or change order and signed by the authorized signatories for each party.

Performance and Payment Bonds, as set forth in **Exhibit "C"** and **Exhibit "D"** respectively attached hereto and incorporated herein by reference, will be due prior to execution of each Job Order Project Agreement in the full amount of each Job Order.

At project completion, JOC Contractor must complete Contractor's Affidavit Regarding Settlement of Claims and Certificate of Completion, as set forth in **Exhibit "E"** and **Exhibit "F"** respectively attached hereto and incorporated herein by reference.

ARTICLE 2. PROJECT PRICE

City will pay JOC Contractor for completion of the Work in accordance with the JOC Master Agreement a fee not to exceed the Guaranteed Maximum Price of **\$936,595.38** Dollars determined and payable as set forth in JOC Master Agreement and **Exhibit "B"** attached hereto and made a part hereof by reference.

ARTICLE 3. CONTRACT TIME & SCHEDULE

JOC Contractor agrees to complete all Construction within **120** calendar days from the Notice to Proceed (NTP) Date.

ARTICLE 4. PARTICIPANTS

CITY:	Construction Project Manager: Russ Slotnick	
	Phone:	480-782-3411
	Email:	Russ.slotnick@chandleraz.gov
JOC CONTRACTOR:	PCL Construction, Inc.	
	1711 W. Greentree Dr., #201	
	Tempe, AZ 85284	
	JOC Contractor Representative: Adam Gordon	
	Phone:	602-717-7231
	Email:	ajgordon@pcl.com

SIGNATURE PAGE TO FOLLOW

IN WITNESS WHEREOF, the Parties have executed this Job Order as of the Effective Date.

"CITY" CITY OF CHANDLER

MAYOR

RECOMMENDED BY:

Kimberly Moon, P.E.
Acting CIP City Engineer

APPROVED AS TO FORM:

City Attorney

ATTEST:

City Clerk

Seal

"JOC CONTRACTOR"

PCL Construction, Inc.

Signature

Date

Print Name

Richard Hewitt
District Manager
& Authorized Signer

Title

RHEWITT@PCL.COM

Signer Email Address

Shawn W. Britton
Secretary / Treasurer

EXHIBIT A
SCOPE OF WORK



Exhibit A – Scope of Work

- 1) The following scope is included in Proposal:
 - The project includes the procurement and installation of water chlorination system, public potable water system connection, and slipline/rehabilitation of an existing 16-inch waterline crossing under Alma School Road at the North Alma School Well Site.

PCL Construction, Inc. scope of work includes, but not limited to the following.

1. Site Work:
 - a. Existing Utility Potholing
 - b. Survey / As-Builts
 - c. Removal of existing sidewalks
 - d. Removal and replacement of asphalt
 - e. Traffic Control w/ Off Duty Officer
 - f. Furnish & Install of new 12" Insert a Valve on South side of W. Summit PL
 - g. Removal of existing yard pipe as shown on drawings. Existing Yard piping is ACP and will be removed by certified contractor
 - h. Abandonment of existing 12" WL as shown on drawings Landscaping removal and replacement
 - i. Material haul off
2. Yard Piping:
 - a. Existing 16" WL Install – PCL / WACO to install 12" Slip Lining (Approx. 100LF).
 - b. New 12" DI Water Line and valves per contract drawing limits
 - c. 1 ½" Copper Water line per contract drawing limits
 - d. ¾" PVC Sample Drain Routed to SRP Junction Structure
 - e. 3/8" Copper Chlorine sample line
 - f. Thrust Blocks as shown on drawings
3. Concrete:
 - a. Replace removed concrete sidewalks
 - b. Backflow Preventor Pad
 - c. Electrical Pedestal Pads
 - d. Equipment Pads
 - e. Pre-Cast Handhole for chlorine
4. Metals:
 - a. Furnish & Install Chlorine enclosure
 - b. Furnish & Install Fence
 - c. Furnish & Install Portable Aluminum Access Platform
 - d. Furnish & Install Pipe Supports, bases, and grout



- e. Furnish & Checkered Plate
- 5. Painting:
 - a. Painting of exposed piping and pipe identification
 - b. Finish coating of chlorine enclosure
- 6. Equipment:
 - a. Furnish & Install Chlorination System
 - b. Furnish & Install Chlorine Analyzer
 - c. Equipment Signage
- 7. Exposed Piping as shown on contract drawings
- 8. Electrical requirements as shown on contract drawings
- 9. Testing / Start Up
 - a. Programming (By others)

**EXHIBIT B
FEE SCHEDULE**



**JOC 1915.401 - WA2007.401 NORTH ALMA SCHOOL
WELL EQUIPPING**

EXHIBIT "B-1"
Job Order Price Proposal
Summary Sheet

Negotiated Prices		
Subcontractor(s)		\$ 268,274.00
Subconsultant(s)		\$ -
General Conditions		\$ 121,234.00
Preconstruction Labor (if applicable)		\$ -
Construction Labor (if applicable)		\$ 75,228.00
Materials and Equipment		\$ 274,448.00
SUBTOTAL (NEGOTIATED PRICES):		\$ 739,184.00
Overhead and Profit (Coefficient per Job Order Master Agreement)	8.00%	\$ 59,134.72
SUBTOTAL (NEGOTIATED PRICES + OVERHEAD AND PROFIT):		\$ 798,318.72
Insurance, Bonds, & Taxes		
Sales Tax Percentage (Current Tax Rate)*	5.07%	\$ 47,484.58
General Liability Insurance Percentage **		\$ 5,543.88
Builder's Risk Insurance Percentage **		\$ 813.10
Payment & Performance Bond**		\$ 4,435.10
SUBTOTAL (INSURANCE, BONDS, & TAXES):		\$ 58,276.66
SUBTOTAL (NEGOTIATED PRICES + OVERHEAD AND PROFIT + INSURANCE, BONDS, & TAXES):		\$ 856,595.38
City's Allowance		\$ 80,000.00
0		\$ -
TOTAL JOB ORDER:		\$ 936,595.38
		\$ -

Per the Job Order Master Agreement - This Fee Table includes all fees, price, insurance and bond premiums, allowances, construction contingency, and taxes of any type necessary to fully, properly and timely perform and construct the Work. Also per the Job Order Master Agreement - For any portion of the Work which, either through this Contract, Change Order or otherwise, is performed and paid for on a price, or time and materials basis, the prices may be reimbursed to JOC Contractor and chargeable against the Contract Price will be determined as set forth in MAG 109.5.

** Based on total contract amount*

*** Performance and payment bonds, general liability insurance, and builders risk insurance shall be assessed at .6%, .75%, .11% of the total Job Order value respectively.*



JOC # 3 – Clarifications, Assumptions, and Exclusions

1. CLARIFICATIONS / ASSUMPTIONS

1. PCL assumes when construction commences no interruptions to schedule by SRP scope of work including start up. No extended warranty included in proposal if delays to start up outside of PCL's control.
2. PCL has included a \$5,000.00 CMU wall Allowance for existing CMU wall repairs
3. PCL has included a \$12,000.00 escalation contingency for materials to be utilized for project. Suppliers are not holding pricing longer than 30 days.
4. City of Chandler Allowance included within proposal. PCL has rounded Allowance up to nearest whole number.
5. PCL has included the abandonment of existing 12" WL as shown on drawings. No existing landscape removal, electrical, or other unknown utility removal included within proposal.
If Slurry Abandonment of the Existing 12" WL is not required there will be an estimated deduct of \$29,470.00.
6. PCL assumes yard piping can be isolated by the City of Chandler. No isolation valves or installation included within proposal.
7. PCL has included relocation of existing DG within site agreed stockpile location and will reinstall existing DG upon construction completion. No purchase of new DG included as it is PCL understanding that SRP will complete this work at a later date.
8. Traffic Control for both Alma School Road and W. Summit PL included. Traffic Control Barricades for the Alma School Road location will require set up and tear down each day of construction operation. It is assumed that the traffic control barricades for W. Summit PL can remain set up during normal weekdays and will require removal during weekends.
9. Off duty officer included (Construction will be within the City of Chandler's 300 LF Zone of intersection).
10. PCL has included asphalt removal and replacement within proposal
11. Quality Control: Compaction, Concrete, and Asphalt by others. PCL will coordinate with the City of Chandler. Please refer to specification section 01451
12. It has been confirmed only 1 EA Insert A Valve is required
13. PCL has included a second 12" WL riser as shown in Section A on Sheet No. C-2. This was added per site walk.
14. Slip Lining Included in price proposal
 - a) PCL has priced out 12" Slip Lining in lieu of the 14" Primus Line due to procurement concerns and material being delivered from out of country. 12" Primus Line is in stock in Phoenix. However, there may be a procurement as well pending availability at time of order placement.
15. Existing pipe to be removed is ACP and will be removed by certified contractor and transported to Butterfield Landfill.
16. Start Up to be coordinated with COC, Wilson, and SRP. Additional discussions on startup scope and responsibilities still to be discussed
17. Yard piping installation per contract drawings and up to where notes indicate by SRP
18. Emergency Eyewash Station by Others
19. PCL to connect to Emergency Eyewash Station from existing French drain
20. Disconnect and remove conduit and conductors, equipment back to source
21. Includes grounding per plans
22. Includes PVC Sch. 40 conduit for underground runs
23. Includes GRC conduit for above ground runs
24. Includes power and control conductor to equipment
25. Includes PVC Coated stub ups
26. Includes Panel LP-A
27. Includes 2 EA Holophane EVT4 LED Lights
28. Includes FGI Receptacle and Switch

2. EXCLUSIONS:

1. All Items identified within contract drawings called out to be done by SRP are excluded from price proposal
2. Programming
3. Note 57 on Sheet No C-2 (No call out on what is to be provided)
4. Keynote 18 on Sheet No. C-2
5. Utility Company permits, fees or allowances
6. Hazardous material testing and remediation with exception to ACP pipe Removal
7. No Concrete SOG included for new Chlorination System
8. No Arch Flash Study included
9. Electrical Duct banks not shown on contract drawings
10. No Soils Report provided.
11. Hard Digging
12. Dewatering (Ground Water) – No soils report provided.
13. 3rd party testing
14. Removal of underground electrical structures
15. SRP conductors from SRP MPZ to City PLC
16. SRP Raceway from SRP PLC to City PLC (Raceway X & Y)
17. Explosion Proof Conduit, Fitting, Boxes, or devices
18. Excludes extended warranties



Date	March 25, 2022
Time	10:36:17 AM
BE Number	BE220007
Opportunity No	
Owner File No	
Estimator	

General Estimate Summary & Item Analysis Sheet

Project	City of Chandler JOC - N. Alma School Road Well Chlorination System Addition
Location	Chandler, AZ, USA
Owner	
Designer	

Bid Closing

Project Start	October 24, 2022
Completion	February 10, 2023



CONSTRUCTION

BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well C

Location Chandler AZ, USA

Summary Page 1 of 2

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General Estimate Summary

Sheet Name	Description	Quantity UOM	Labor			Equipment			Services/ Tools / Supplies		Material		Subcontract		Total Cost	
			Hours	Rate	Total	Hours	Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total
DIRECT COSTS																
PRE	Pre Construction	1 LS	---	---	---	---	---	---	---	---	---	4,800	---	---	---	4,800
SITE	Site Work	1 LS	408	44.33	18,071	158	---	5,295	---	27,610	---	13,521	---	9,540	---	74,038
YARD	Yard Piping	1 LS	836	45.34	37,905	611	---	31,018	---	5,360	---	49,462	---	139,750	---	263,495
CONC	Concrete	1 LS	75	43.55	3,254	4	---	178	---	1,793	---	370	---	360	---	5,955
MET	Misc. Metals	1 LS	23	43.91	1,010	4	---	131	---	432	---	9,023	---	21,296	---	31,891
COAT	Coatings	1 LS	---	---	---	---	---	---	---	---	---	---	---	19,025	---	19,025
EQUI	Equipment	1 LS	20	43.40	868	---	---	---	---	50	---	28,880	---	---	---	29,798
PIPE	Exposed Piping	1 LS	258	43.44	11,216	26	---	595	---	630	---	28,919	---	---	---	41,359
ELE	Electrical	1 LS	---	---	---	---	---	---	---	---	---	---	---	78,303	---	78,303
ALL	Contingency	1 LS	---	---	---	---	---	---	---	5,000	---	12,000	---	---	---	17,000
DIRECT COSTS			1,620	---	72,323	803	---	37,216	---	40,875	---	146,975	---	268,274	---	565,664
GENERAL EXPENSE COSTS																
FIXED GENERAL EXPENSE 1 LS																
GE 1	GENERAL EXPENSE	1 LS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GE 3	F1 MOBILIZE & DEMOBILIZE	100 %	---	---	---	---	---	---	20	2,000	---	---	---	---	20.00	2,000
GE 7	F5 DISMAN & RESTORE SITE	100 %	---	---	---	---	---	---	20	2,000	---	---	---	---	20.00	2,000
GE 8	F6 BOND	100 %	---	---	---	---	---	---	36.69	3,669	3.55	355	---	---	40.24	4,024
FIXED GENERAL EXPENSE 1 LS			---	---	---	---	---	---	---	7,669	---	355	---	---	---	8,024
VARIABLE GENERAL EXPENSE 1 LS																
GE 14	V4 OPERATE UTILITIES	100 %	---	---	---	---	---	---	45.50	4,550	---	---	---	---	45.50	4,550
GE 15	V5 OPERATE SUPPORT EQUIP	100 %	68	43.40	2,951	1,873	346.63	34,663	5	500	15	1,500	---	---	396.14	39,614
GE 17	V7 PROJECT STAFF	100 %	953	94.10	89,705	---	---	---	---	---	29.05	2,905	---	---	926.10	92,610
GE 19	V9 MANAGEMENT SERVICE	100 %	---	---	---	606	5.61	561	78.66	7,866	---	---	35.00	3,500	119.27	11,927
GE 20	V10 MISC JOB EXPENSE	100 %	---	---	---	---	---	---	25.95	2,595	108	10,800	---	---	133.95	13,395
GE 21	V11 EQUIP MAINTENANCE	100 %	---	---	---	---	---	---	34	3,400	---	---	---	---	34.00	3,400
VARIABLE GENERAL EXPENSE 1 LS			1,021	---	92,656	2,479	---	35,223	---	18,911	---	15,205	---	3,500	---	165,496

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Proprietary and Confidential



Summary Page 2 of 2
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

PRE **Pre Construction** **1.00** **LS**

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Potholing	8	EA															
	Pro Pipe	2	DY	---	---	---	---	---	---	---	---	---	2,400.00	4,800	---	---	2,400.00	4,800
	Potholing	8.00	EA	---	---	---	---	---	---	---	---	---	600.00	4,800	---	---	600.00	4,800
	Pre Construction	1.00	LS	---	---	---	---	---	---	---	---	---	---	4,800	---	---	---	4,800

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Location Chandler, AZ, USA

Detail Page 2 of 50

Mar 25, 2022

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Demolition	1	LS															
	Demo STS	1	LS															
	STS - Rigging (Bushes)	1	LS	---	---	---	---	---	---	---	---	200	---	---	---	---	---	200
	STS - General / Misc.	1	LS	---	---	---	---	---	---	---	---	500	---	---	---	---	---	500
	Demo STS	1.00	LS	---	---	---	---	---	---	---	---	700	---	---	---	---	---	700
	Demo Landscaping	1	LS															
	DG Remvoal	2,300	SF															
	Bckho-Ldr Ct 420C 1.0cy	2,300	SF	1,200	0.001	2	OP2 49.26	94	50.26	96	---	---	---	---	---	---	0.082930	191
	2 SP Crew	2,300	SF	1,200	0.001	4	SPC 43.40	166	---	---	---	---	---	---	---	---	0.072331	166
	Tank Trl Water 500 Gal	2,300	SF	1,200	0.001	---	---	---	15.15	29	---	---	---	---	---	---	0.012623	29
	DG Remvoal	2,300.00	SF	400.000	0.002	6	45.35	261	0.054503	125	---	---	---	---	---	---	0.167884	386
	Demo - Shrubs & Bushes	10	EA															
	N. Side of Summit PL Only (WACO has S. Side of Summit PL) Shrubs to be dumped into dumpster																	
	Demo - Shrubs & Bushes (10 EA)																	
	Bckho-Ldr Ct 420C 1.0cy	10	EA	2.500	0.400	4	OP2 49.26	197	50.26	201	---	---	---	---	---	---	39.81	398
	2 SP Crew	10	EA	2.500	0.400	8	SPC 43.40	347	---	---	---	---	---	---	---	---	34.72	347
	Tank Trl Water 500 Gal	10	EA	2.500	0.400	---	---	---	15.15	61	---	---	---	---	---	---	6.06	61
	Demo - Shrubs & Bushes	10.00	EA	0.833	1.200	12	45.35	544	26.16	262	---	---	---	---	---	---	80.58	806
	Demo Landscaping	1.00	LS	---	---	18	45.35	805	---	387	---	---	---	---	---	---	---	1,192

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SITE	Site Work	1.00
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Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Mar 25, 2022

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Demo Asphalt	100	SF															
	Demo Asphalt (Small)	100	SF															
	12" WL North & South Sides of Summit PI																	
	4" Asphalt					2.00		CY										
	Sawcut	100	LF	---	---	---	---	---	---	---	5.00	500	---	---	---	---	5.00	500
	SP Crew	100	SF	25.000	0.040	4	SPC 43.40	174	---	---	---	---	---	---	---	---	1.74	174
	Bckho-Ldr Ct 420C 1.0cy	100	SF	25.000	0.040	4	OP2 49.26	197	50.26	201	---	---	---	---	---	---	3.98	398
	Tank Trl Water 500 Gal	100	SF	25.000	0.040	---	---	---	15.15	61	---	---	---	---	---	---	0.605924	61
	Temp Patching	1	LS	---	---	---	---	---	---	---	---	500	---	---	---	---	---	500
	Demo Asphalt (Small)	100.00	SF	12.500	0.080	8	46.33	371	2.62	262	10.00	1,000	---	---	---	---	16.32	1,632
	Demo Asphalt	100.00	SF	12.500	0.080	8	46.33	371	2.62	262	10.00	1,000	---	---	---	---	16.32	1,632
	Demo Sitework	420	SF															
	Demo Sidewalk	420	SF															
	12" WL North Site of Summit					420.00		SF										
	Demo Sidewalk					420.00		SF										
	Assumed 4" sidewalk					5.13		CY										
	Demo Sidewalk	420.00	SF															
	2 Demo Sidewalk	420	SF	33.750	0.030	25	SPC 43.40	1,080	---	---	---	---	---	---	---	---	2.57	1,080
	Hammer - 5500lbs/ft 324-336	420	SF	33.750	0.030	---	---	---	44.87	558	---	---	---	---	---	---	1.33	558
	Bckho-Ldr Ct 420C 1.0cy	420	SF	33.750	0.030	12	OP2 49.26	613	50.26	625	---	---	---	---	---	---	2.95	1,238
	Tank Trl Water 500 Gal	420	SF	33.750	0.030	---	---	---	15.15	189	---	---	---	---	---	---	0.448833	189
	Demo Sidewalk	420.00	SF	11.250	0.089	37	45.35	1,693	3.27	1,372	---	---	---	---	---	---	7.30	3,065
	Demo Curb and Gutter	150	SF															

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SITE	Site Work	1.00
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BE Number BE220007

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Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

Detail Page 4 of 50

Mar 25, 2022

10:36:19 AM

Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Removal of 20' of Vertical Curb per MAG Detail 220-1 (2 Places)																	
	Removal of 50 LF of Roll Curb per MAG STD Detail 220-1																	
	Demo C&G					150.00	SF											
	Assumed 4" sidewalk					1.83	CY											
	Demo Sidewalk					150.00	SF											
2	Demo C&G	150	SF	37.500	0.027	8	SPC 43.40	347	---	---	---	---	---	---	---	---	2.31	347
	Hammer - 5500lbs/ft 324-336	150	SF	37.500	0.027	---	---	---	44.87	179	---	---	---	---	---	---	1.20	179
	Bckho-Ldr Ct 420C 1.0cy	150	SF	37.500	0.027	4	OP2 49.26	197	50.26	201	---	---	---	---	---	---	2.65	398
	Tank Trl Water 500 Gal	150	SF	37.500	0.027	---	---	---	15.15	61	---	---	---	---	---	---	0.403949	61
Demo Curb and Gutter		150.00	SF	12.500	0.080	12	45.35	544	2.94	441	---	---	---	---	---	---	6.57	985
Demo Sitework		420.00	SF	8.514	0.117	49	45.35	2,237	4.32	1,813	---	---	---	---	---	---	9.64	4,051
Yard Pipe Demo		40	LF															
ACP Pipe Removal		40	LF															
ACP Pipe Removal Sub Removal Pipe Removal & Dispose of																		
	ACP Pipe Removal - SHC	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	2,780	---	2,780
	PCL Assistance to Haul out of Trench / Load																	
	Bckho-Ldr Ct 420C 1.0cy	8	HR	1.000	1.000	8	OP2 49.26	394	50.26	402	---	---	---	---	---	---	99.52	796
ACP Pipe Removal		40.00	LF	5.000	0.200	8	49.26	394	10.05	402	---	---	---	---	69.51	2,780	89.41	3,577
Abandon 12" WL		70	LF															
	Valve in Location not Shown On Drawings																	
	Depth is estimated at 13'-0" Deep																	
	Will be next to existing SRP 42" Line and Electrical Lines																	
	Shoring																	

U01 STANDARD-LANDSCAPE-MASTER.RPT

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SITE	Site Work	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Traffic Control Includes 1 Day of Potholing PCL assumes traffic control can be set up and teardown once and not every day																	
	Canyon State Barricade																	
	Traffic Control Plan	1	LS	---	---	---	---	---	---	---	---	60	---	---	---	---	---	60
	Midblock/Sidewalk Closuer Equip.	9	DY	---	---	---	---	---	---	---	45.00	405	---	---	---	---	45.00	405
	Single Lane Closure Equip.	9	DY	---	---	---	---	---	---	---	90.00	810	---	---	---	---	90.00	810
	2 Men 1 Truck Setup / Tear Down	16	EA	---	---	---	---	---	---	---	85.00	1,360	---	---	---	---	85.00	1,360
	Pre-warning Signs	2	EA	---	---	---	---	---	---	---	---	---	150.00	300	---	---	150.00	300
	Off Duty Officer	40	HR	---	---	---	---	---	---	---	90.00	3,600	---	---	---	---	90.00	3,600
	Excavation																	
	PRO PIPE	3	DY	---	---	---	---	---	---	---	2,400.00	7,200	---	---	---	---	2,400.00	7,200
	DISPOSAL - PRO PIPE	5	EA	---	---	---	---	---	---	---	600.00	3,000	---	---	---	---	600.00	3,000
	Tank Trl Water 500 Gal	24	HR	1.000	1.000	---	---	---	15.15	364	---	---	---	---	---	---	15.15	364
	Residual Water Removal																	
	PRO Pipe	4	HR	---	---	---	---	---	---	---	300.00	1,200	---	---	---	---	300.00	1,200
	SP Crew	4	HR	1.000	1.000	4	SPC 43.40	174	---	---	---	---	---	---	---	---	43.40	174
	Shoring Install / Removal Estimated duration 7 Days																	
	United Rental = Weekly Rate (Speed Shores)	1	WK	---	---	---	---	---	---	---	381.00	381	---	---	---	---	381.00	381
	Delivery / Misc. Charges	1	LS	---	---	---	---	---	---	---	---	614	---	---	---	---	---	614
	Form Ply 3/4"	312	SF	---	---	---	---	---	---	---	2.10	655	---	---	---	---	2.10	655
2	PCL Crew Set Up / Removal	8	HR	1.000	1.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	86.80	694
	Bckho-Ldr Ct 420C 1.0cy	4	HR	1.000	1.000	4	OP2 49.26	197	50.26	201	---	---	---	---	---	---	99.52	398
	Bulkhead for Slurry Pump Connections Both Ends																	
	Form Ply 3/4"	128	SF	---	---	---	---	---	---	---	2.10	269	---	---	---	---	2.10	269
	Dimen. Lumber (2x4-2x10)	40	BF	---	---	---	---	---	---	---	1.21	48	---	---	---	---	1.21	48

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SITE	Site Work	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	SP Crew	128	SF	5.333	0.188	24	SPC 43.40	1,042	---	---	---	---	---	---	---	---	8.14	1,042
	Piping to connect to Slurry Trailer																	
	Misc. Valving	1	LS	---	---	---	---	---	---	---	---	200	---	---	---	---	---	200
	SP Crew Pipe / Valve Connection	2	HR	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	43.40	87
	Slurry (12" WL)																	
	Note 50 on C-2																	
	Line Pump - Brundage Bone	4	HR	---	---	---	---	---	---	---	160.00	640	---	---	---	---	160.00	640
	2 Man Crew - Brundage Bone	4	HR	---	---	---	---	---	---	---	---	---	85.00	340	---	---	85.00	340
	Yardage Charge	2.50	CY	---	---	---	---	---	---	---	3.00	8	---	---	---	---	3.00	8
	1 Sack Slurry	2.50	CY	---	---	---	---	---	---	---	---	---	102.00	255	---	---	102.00	255
	1 Sack Slurry Waste 20% (Prime Pump)	0.50	CY	---	---	---	---	---	---	---	---	---	102.00	51	---	---	102.00	51
	Environmental Fee	1	LD	---	---	---	---	---	---	---	---	---	25.00	25	---	---	25.00	25
	Fuel Surcharge	1	LD	---	---	---	---	---	---	---	---	---	32.00	32	---	---	32.00	32
	Washout	1	LD	---	---	---	---	---	---	---	---	---	25.00	25	---	---	25.00	25
	Short Load Fee	1	EA	---	---	---	---	---	---	---	---	---	250.00	250	---	---	250.00	250
2	SP Crew	4	HR	1.000	1.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	86.80	347
	Backfill																	
	1/2 Sack Slurry Backfill																	
	1 Sack Slurry	37	CY	---	---	---	---	---	---	---	---	---	102.00	3,774	---	---	102.00	3,774
	1 Sack Slurry Waste 5%	1.85	CY	---	---	---	---	---	---	---	---	---	102.00	189	---	---	102.00	189
	Environmental Fee	4	LD	---	---	---	---	---	---	---	---	---	25.00	100	---	---	25.00	100
	Fuel Surcharge	4	LD	---	---	---	---	---	---	---	---	---	32.00	128	---	---	32.00	128
	Washout	4	LD	---	---	---	---	---	---	---	---	---	25.00	100	---	---	25.00	100
2	SP Crew	4	HR	1.000	1.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	86.80	347
Abandon 12" WL		70.00	LF	1.061	0.943	66	43.75	2,888	8.07	565	292.13	20,449	79.55	5,569	---	---	421.00	29,470
Yard Pipe Demo		40.00	LF	0.541	1.850	74	44.35	3,282	24.17	967	511.23	20,449	139.22	5,569	69.51	2,780	826.17	33,047

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SITE	Site Work	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
Demolition		1.00	LS	---	---	149	44.91	6,695	---	3,429	---	22,149	---	5,569	---	2,780	---	40,622
Chlorine Juction Box		1	CY															
	2' x 2' x 2' Pre Cast JB	1	EA	---	---	---	---	---	---	---	---	800.00	800	---	---	800.00	800	
Excavation																		
2	SPCR	1	CY	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	86.80	87	
	Bckho-Ldr Ct 420C 1.0cy	1	CY	1.000	1.000	1	OP2 49.26	49	50.26	50	---	---	---	---	---	99.52	100	
	Tank Trl Water 500 Gal	1	CY	1.000	1.000	---	---	---	15.15	15	---	---	---	---	---	15.15	15	
Set																		
2	SPCR	1	CY	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	86.80	87	
	Bckho-Ldr Ct 420C 1.0cy	1	CY	1.000	1.000	1	OP2 49.26	49	50.26	50	---	---	---	---	---	99.52	100	
Backfill																		
2	SPCR	1	CY	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	86.80	87	
	Bckho-Ldr Ct 420C 1.0cy	1	CY	1.000	1.000	1	OP2 49.26	49	50.26	50	---	---	---	---	---	99.52	100	
	Tank Trl Water 500 Gal	1	CY	1.000	1.000	---	---	---	15.15	15	---	---	---	---	---	15.15	15	
	Trench Compactor 24"-33"	1	CY	1.000	1.000	---	---	---	44.54	45	---	---	---	---	---	44.54	45	
Chlorine Juction Box		1.00	CY	0.111	9.000	9	45.35	408	225.61	226	---	---	800.00	800	---	---	1,433.78	1,434
Trucking / Haul Off		1	LS															
Asphalt																		
	Matt Brown Trucking	1	LD	---	---	---	---	---	---	---	115.00	115	---	---	---	---	115.00	115
	Dump Fee	1	EA	---	---	---	---	---	---	---	75.00	75	---	---	---	---	75.00	75
Concrete																		
	Matt Brown Trucking	2	LD	---	---	---	---	---	---	---	115.00	230	---	---	---	---	115.00	230
	Dump Fee	2	EA	---	---	---	---	---	---	---	75.00	150	---	---	---	---	75.00	150

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SITE	Site Work	1.00
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Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit
Soils																	
	Matt Brown Trucking Fees	17	LD	---	---	---	---	---	---	115.00	1,955	---	---	---	---	115.00	1,955
	Dump Fees	17	EA	---	---	---	---	---	---	35.00	595	---	---	---	---	35.00	595
	Bckho-Ldr Ct 420C 1.0cy	2	HR	1.000	1.000	2	OP2 49.26	99	50.26	101	---	---	---	---	---	99.52	199
	Tank Trl Water 500 Gal	2	HR	1.000	1.000	---	---	---	15.15	30	---	---	---	---	---	15.15	30
Trucking / Haul Off		1.00	LS	---	---	2	49.26	99	---	131	---	3,120	---	---	---	---	3,349
Asphalt Replacement		130	SF														
	Neat Line Sawcut	100	LF	---	---	---	---	---	---	---	---	5.00	500	---	---	5.00	500
	Asphalt Subcontractor (L&L Asphalt)	130	SF	---	---	---	---	---	---	---	---	29.50	3,835	---	---	29.50	3,835
Asphalt Replacement		130.00	SF	---	---	---	---	---	---	---	---	33.35	4,335	---	---	33.35	4,335
Concrete Replacement		14	CY														
Sidewalk / Curb & Gutter																	
Sub Grade Prep		650	SF														
Quantities						650.00											
3	Foundation Prep	650	SF	162.500	0.006	12	SPC 43.40	521	---	---	---	---	---	---	---	0.801202	521
	Bckho-Ldr Ct 420C 1.0cy	650	SF	162.500	0.006	4	OP2 49.26	197	50.26	201	---	---	---	---	---	0.612406	398
	Trench Compactor 24"-33"	650	SF	162.500	0.006	---	---	---	44.54	178	---	---	---	---	---	0.274103	178
Sub Grade Prep		650.00	SF	40.625	0.025	16	44.86	718	0.583370	379	---	---	---	---	---	1.69	1,097
Concrete Formwork		287	SF														
Fab Formwork		144	SF														
Fab SOG		144	SF														

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SITE	Site Work	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Fab SOG Forms (Stick Built)					144.00												
	Fab 50%																	
	Fab SOG Forms	144 SF		8.000	0.125	18	SPC 43.40	781	---	---	---	---	---	---	---	---	5.42	781
	Form Ply 3/4"	158.40 SF		---	---	---	---	---	---	---	2.10	332	---	---	---	---	2.10	332
	Dimen. Lumber (2x4-2x10)	316.80 BF		---	---	---	---	---	---	---	1.21	383	---	---	---	---	1.21	383
	Form Hardware	144 SF		---	---	---	---	---	---	---	0.300000	43	---	---	---	---	0.300000	43
	Fab SOG	144.00 SF		8.000	0.125	18	43.40	781	---	---	5.27	759	---	---	---	---	10.70	1,540
	Fab Formwork	144.00 SF		8.000	0.125	18	43.40	781	---	---	5.27	759	---	---	---	---	10.70	1,540
	Erect and Strip Formwork	287 SF																
	Totals Formwork					287.00	sf											
	Form Oil	287 SF		---	---	---	---	---	---	---	0.030000	9	---	---	---	---	0.030000	9
	Erect and Strip Supplies	287 SF		---	---	---	---	---	---	---	0.250000	72	---	---	---	---	0.250000	72
	Sidewalk / C&G	287 SF																
	Sidewalk / C&G					287.00												
	SOG	287 SF		2.500	0.400	115	SPC 43.40	4,982	---	---	---	---	---	---	---	---	17.36	4,982
	Sidewalk / C&G	287.00 SF		2.500	0.400	115	43.40	4,982	---	---	---	---	---	---	---	---	17.36	4,982
	Loose Formwork	6 SF																
	Expansion Material					6.00												
	Expansion Material	6 SF		---	---	---	---	---	---	---	5.00	30	---	---	---	---	5.00	30
	Loose Formwork	6.00 SF		---	---	---	---	---	---	---	5.00	30	---	---	---	---	5.00	30
	Erect and Strip Formwork	287.00 SF		2.500	0.400	115	43.40	4,982	---	---	0.384530	110	---	---	---	---	17.74	5,092

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SITE	Site Work	1.00
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BE Number BE220007

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Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Mar 25, 2022

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Concrete Formwork	287.00	SF	2.161	0.463	133	43.40	5,763	---	---	3.03	869	---	---	---	---	23.11	6,633
	03300 Cast In Place Concrete	14	CY															
	Concrete Materials	14.70	CY															
	TOTAL CONCRETE					14.00	Cy											
	CONC BASE BID					14.00												
	Conc.4000 Psi	14	CY	---	---	---	---	---	---	---	---	---	148.00	2,072	---	---	148.00	2,072
	Conc.4000 Psi Waste 5%	0.70	CY	---	---	---	---	---	---	---	---	---	148.00	104	---	---	148.00	104
	Enviromental Fees	2	LD	---	---	---	---	---	---	---	---	---	25.00	50	---	---	25.00	50
	Fuel Surcharge	2	LD	---	---	---	---	---	---	---	---	---	32.00	64	---	---	32.00	64
	Hot Weather Concrete-Ice	14	CY	---	---	---	---	---	---	---	---	---	2.00	28	---	---	2.00	28
	Washout Fee	2	EA	---	---	---	---	---	---	---	---	---	25.00	50	---	---	25.00	50
	Short Load Fee	2	EA	---	---	---	---	---	---	---	---	---	225.00	450	---	---	225.00	450
	Conc. Placing Supplies	14	CY	---	---	---	---	---	---	---	1.00	14	---	---	---	---	1.00	14
	Concrete Materials	14.70	CY	---	---	---	---	---	---	---	0.952381	14	191.67	2,818	---	---	192.63	2,832
	Concrete Placement	14	CY															
	Total Concrete CY					14.00												
	Sidewalk / C&G	14	CY															
	Sidewalk					14.00	CY											
	Sidewalk (7 CY x 20/60 = .33 HR/Pour x 1HR Show & Go = 1.5 HR (1 Chute / 1 Scree / 1 Mucker / 1 Vibrator / 1 Finisher = 5 x 1.5 = 7.5HR 1 Finisher = 4 HR (Total = 12 HR)																	
	SP Crew Sidewalk	7	CY	0.583	1.714	12	SPC 43.40	521	---	---	---	---	---	---	---	---	74.40	521
	C&G																	
	C&G (7 CY x 2/60 = .33HR/Pour x 1 HR Show & Go = 1.5 HR 1 Chute / 1 Screed / 1 Mucker / 1 Vibrator / 2 Finishers = 6 x 1.5 = 9HR + 2 Finisher x 2 HR = 4 HR																	

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SITE	Site Work	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Mar 25, 2022

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Total HR = 13																	
	Sog	7 CY		0.530	1.887	13	SPC 43.40	573	---	---	---	---	---	---	---	---	81.88	573
	Sidewalk / C&G	14.00 CY		0.555	1.801	25	43.40	1,094	---	---	---	---	---	---	---	---	78.14	1,094
	Concrete Placement	14.00 CY		0.555	1.801	25	43.40	1,094	---	---	---	---	---	---	---	---	78.14	1,094
	03300 Cast In Place Concrete	14.00 CY		0.555	1.801	25	43.40	1,094	---	---	1.00	14	201.26	2,818	---	---	280.40	3,926
	Conc Finishing	690 SF																
	Quantities					690.00 SF												
	Point and Patch Finish (C&G)	40 SF		40.000	0.025	1	SPC 43.40	43	---	---	---	---	---	---	---	---	1.08	43
	Finishing Supplies P&P (C&G)	40 SF		---	---	---	---	---	---	---	1.00	40	---	---	---	---	1.00	40
	Finish Supplies Smooth Form	650 SF		---	---	---	---	---	---	---	0.100000	65	---	---	---	---	0.100000	65
	Wet Finish Supplies	650 SF		---	---	---	---	---	---	---	1.00	650	---	---	---	---	1.00	650
	Conc Finishing	690.00 SF		690.000	0.001	1	43.40	43	---	---	1.09	755	---	---	---	---	1.16	798
	Curing	14 CY																
	Curing	937 SF																
	Quantities					937.00 SF												
	Curing Labor	937 SF		200.000	0.005	5	SPC 43.40	203	---	---	---	---	---	---	---	---	0.216992	203
	Water Curing Supplies	937 SF		---	---	---	---	---	---	---	0.750000	703	---	---	---	---	0.750000	703
	Curing	937.00 SF		200.000	0.005	5	43.40	203	---	---	0.750000	703	---	---	---	---	0.966992	906
	Curing	14.00 CY		2.988	0.335	5	43.40	203	---	---	50.20	703	---	---	---	---	64.72	906
	03200 Conc Reinforcement	1.40 TN																

U01 STANDARD-LANDSCAPE-MASTER.RPT

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SITE	Site Work	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

SITE	Site Work	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost		
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
Rebar Sub: Supply & Install		1.40	TN															
Rebar Subcontractor																		
P	Rebar / Mesh Supply	1	LS	---	---	---	---	---	---	---	---	---	---	---	1,260	---	1,260	
2	SP Crew	8	HR	1.000	1.000	16 ^{SPC}	43.40	694	---	---	---	---	---	---	---	86.80	694	
Rebar Sub: Supply & Install		1.40	TN	0.088	11.429	16	43.40	694	---	---	---	---	---	900.00	1,260	1,395.98	1,954	
03200 Conc Reinforcement		1.40	TN	0.088	11.429	16	43.40	694	---	---	---	---	---	900.00	1,260	1,395.98	1,954	
Concrete Replacement		14.00	CY	0.072	13.978	196	43.52	8,516	27.09	379	167.22	2,341	201.26	2,818	90.00	1,260	1,093.87	15,314
Landscape Replacement		1,068	SF															
P	Landscape Sub	1	LS	---	---	---	---	---	---	---	---	---	---	---	5,500	---	5,500	
DG Replacement																		
DG Material							13.00	TN					40.00					
No Purchase of DG included - PCL understanding is SRP will complete the DG																		
PCL will pull from DG stock Pile and re-place DG to original location prior to construction operations																		
2	SP Crew	2,300	SF	133.000	0.008	35 ^{SPC}	43.40	1,501	---	---	---	---	---	---	---	0.652608	1,501	
	Bckho-Ldr Ct 420C 1.0cy	2,300	SF	133.000	0.008	17 ^{OP2}	49.26	852	50.26	869	---	---	---	---	---	0.748241	1,721	
	Tank Trl Water 500 Gal	2,300	SF	133.000	0.008	---	---	---	15.15	262	---	---	---	---	---	0.113895	262	
Landscape Replacement		1,068.00	SF	20.586	0.049	52	45.35	2,353	1.06	1,131	---	---	---	---	5.15	5,500	8.41	8,984
Site Work		1.00	LS	---	---	408	44.33	18,071	---	5,295	---	27,610	---	13,521	---	9,540	---	74,038

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SITE	Site Work	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Buried Pipe	1	LS															
	Slip Lining Exisitng 16" Line / Insert A Valve	1	LS															
	Note 23 / C-2 Includes: Potholing existing valve on east side of alma schoool road to very connection and proucure materials Includes: Approx. 100 LF total length (Liner, fittings, installation, excavation of access pits, shoring and plating, backfill and surface restoration Includes Traffic Control Allowance (Both Summit and Alma School Road) Concrete Replacement Allowance (Both Summit & Alma School Road)																	
	WACO	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	136,750	---	136,750
	Slip Lining Exisitng 16" Line / Insert	1.00	LS	---	---	---	---	---	---	---	---	---	---	---	---	136,750	---	136,750
	Yard Pipe Materials	1	LS															
	Purchase Pipe - Ferguson	1	LS	---	---	---	---	---	---	---	---	---	---	42,732	---	---	---	42,732
	Pipe Rigging STS	1	LS	---	---	---	---	---	---	---	---	500	---	---	---	---	---	500
	Pipe Installation STS	1	LS	---	---	---	---	---	---	---	---	500	---	---	---	---	---	500
	BFP Certification	3	EA	---	---	---	---	---	---	---	300.00	900	---	---	---	---	300.00	900
	Disinfection																	
	State Wide	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	3,000	---	3,000
	Sand - Matt Brown Trucking	32	TN	---	---	---	---	---	---	---	---	---	13.50	432	---	---	13.50	432
	Sand Travel / Matt Brown - \$125.00/HR - Round Trip = 1.56HR = 3 Loads x 1.56 = 5																	
	Matt Brown Trucking - Sand	5	HR	---	---	---	---	---	---	---	125.00	625	---	---	---	---	125.00	625
	MAG AB - Matt Brown Trucking	246	TN	---	---	---	---	---	---	---	---	---	16.75	4,121	---	---	16.75	4,121
	Testing STS	1	LS	---	---	---	---	---	---	---	---	500	---	---	---	---	---	500

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YARD	Yard Piping	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Trench Protection - TSR	1	MO	---	---	---	---	---	---	---	1,135.00	1,135	---	---	---	---	1,135.00	1,135
2	Trench Box Set Up	2	HR	1.000	1.000	4	SPC 43.40	174	---	---	---	---	---	---	---	---	86.80	174
	Bckho-Ldr Ct 420C 1.0cy	2	HR	1.000	1.000	2	OP2 49.26	99	50.26	101	---	---	---	---	---	---	99.52	199
Yard Pipe Materials		1.00	LS	---	---	6	45.35	272	---	101	---	4,160	---	47,284	---	3,000	---	54,817
Production Pipe Subtotal		685	LF															
Unload & Handle		1	EA															
	Unload & Handle	8	HR	1.000	1.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	43.40	347
	Bckho-Ldr Ct 420C 1.0cy	8	HR	1.000	1.000	8	OP2 49.26	394	50.26	402	---	---	---	---	---	---	99.52	796
Unload & Handle		1.00	EA	0.063	16.000	16	46.33	741	402.05	402	---	---	---	---	---	---	1,143.32	1,143
12" WL Outside of Plant (N. Side)		95	LF															
12" WL Tie into existing 14" WL and Reduce down to 12". Run pipe system east to designated tie in																		
DIP Cement Lined / Tar Coated																		
Mechanical Joints / Thrust Blocks																		
Estimate Depth = 8'-0"																		
No Soils Report - Type "C"																		
Dewatering existing 12" WL near Valve on W. Summit PL																		
	PRO PIPE	2	HR	---	---	---	---	---	---	---	300.00	600	---	---	---	---	300.00	600
	Disposal - PRO PIPE	1	EA	---	---	---	---	---	---	---	---	---	600.00	600	---	---	600.00	600
2	SP Crew	2	HR	1.000	1.000	4	SPC 43.40	174	---	---	---	---	---	---	---	---	86.80	174
Dig / Lay / Bury		95	LF															

YARD	Yard Piping	1.00
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Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
2	SP Crew	95	LF	2.969	0.337	64	SPC 43.40	2,777	---	---	---	---	---	---	---	---	29.24	2,777
	Bckho 316EL .68cy -O	95	LF	2.969	0.337	32	OP2 49.26	1,576	125.24	4,008	---	---	---	---	---	---	58.78	5,584
	Bckho-Ldr Ct 420C 1.0cy	95	LF	2.969	0.337	32	OP2 49.26	1,576	50.26	1,608	---	---	---	---	---	---	33.52	3,185
	Trench Compactor 24"-33"-O	95	LF	2.969	0.337	---	---	---	44.54	1,425	---	---	---	---	---	---	15.00	1,425
	Tank Trl Water 500 Gal	95	LF	2.969	0.337	---	---	---	15.15	485	---	---	---	---	---	---	5.10	485
Dig / Lay / Bury		95.00	LF	0.742	1.347	128	46.33	5,930	79.22	7,526	---	---	---	---	---	---	141.64	13,456
Risers		1	EA															
	Yard Pipe Crew (LF+1PL+3LG3)					1.00	EA		0.250		MX8							
	Bckho 324DL 1.5CY -O					1.00	EA		0.250		OP2						Ex Cat 324	
	Ldr 966G RT w/GP-4.5cy -O					1.00	EA		0.250		OP2						Ldr Cat 966	
	Trench Compactor 24"-33"-O					1.00	EA		0.250								Trench Compacto	
	Trc Water-TA 2000 Gal -O					1.00	EA		0.250		TD3						Trc Water-TA 20	
Risers		1.00	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Valve Adjustments		2	EA															
2	SP Crew	2	EA	0.250	4.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	347.19	694
	Bckho 316EL .68cy -O	2	EA	0.250	4.000	8	OP2 49.26	394	125.24	1,002	---	---	---	---	---	---	698.01	1,396
	Conc 3000 PSI	1	CY	---	---	---	---	---	---	---	---	---	96.00	96	---	---	96.00	96
Valve Adjustments		2.00	EA	0.083	12.000	24	45.35	1,088	500.97	1,002	---	---	48.00	96	---	---	1,093.20	2,186
Tie in to Existing		2	EA															
2	SP Crew	2	EA	0.125	8.000	32	SPC 43.40	1,389	---	---	---	---	---	---	---	---	694.37	1,389
	Bckho 316EL .68cy -O	2	EA	0.125	8.000	16	OP2 49.26	788	125.24	2,004	---	---	---	---	---	---	1,396.02	2,792
Tie in to Existing		2.00	EA	0.042	24.000	48	45.35	2,177	1,001.94	2,004	---	---	---	---	---	---	2,090.40	4,181
Test		1	EA															
2	SP Crew	1	EA	0.125	8.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	694.37	694
	Comp 185 CFM Diesel	1	EA	0.125	8.000	---	---	---	20.59	165	---	---	---	---	---	---	164.74	165
Test		1.00	EA	0.063	16.000	16	43.40	694	164.74	165	---	---	---	---	---	---	859.11	859
Slurry Backfill		5	CY															
	Under Existing CMU Wall																	

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YARD Yard Piping

1.00



BE Number BE220007

Opportunity No

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Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Backfill On Each Side prior to Slurry Fill																	
	1 Sack Slurry	5	CY	---	---	---	---	---	---	---	---	---	102.00	510	---	---	102.00	510
	1 Sack Slurry Waste 20%	1	CY	---	---	---	---	---	---	---	---	---	102.00	102	---	---	102.00	102
	Environmental Fee	1	LD	---	---	---	---	---	---	---	---	---	25.00	25	---	---	25.00	25
	Fuel Surcharge	1	LD	---	---	---	---	---	---	---	---	---	32.00	32	---	---	32.00	32
	Washout	1	LD	---	---	---	---	---	---	---	---	---	25.00	25	---	---	25.00	25
	Short Load Fee	1	EA	---	---	---	---	---	---	---	---	---	200.00	200	---	---	200.00	200
2	SP Crew	1	HR	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	86.80	87
	Slurry Backfill	5.00	CY	2.500	0.400	2	43.40	87	---	---	---	---	178.80	894	---	---	196.16	981
	12" WL Outside of Plant (N. Side)	95.00	LF	0.428	2.337	222	45.72	10,150	112.60	10,697	6.32	600	16.74	1,590	---	---	242.49	23,037
	12" WL Inside Plant	170	LF															
	12" Water Line - Runs within side of plant (2 Tie Ins (1 coming at Alma School RD / 1 Tie In at SRP Location within Site)																	
	DIP Cement Lined / Tar Coated																	
	Mechanical Joints																	
	Estimated at 8'-0"																	
	No Soils Report - Type "C"																	
	Dig / Lay / Bury	170	LF															
2	SP Crew	170	LF	4.250	0.235	80	SPC 43.40	3,472	---	---	---	---	---	---	---	---	20.42	3,472
	Bckho 316EL .68cy -O	170	LF	4.250	0.235	40	OP2 49.26	1,970	125.24	5,010	---	---	---	---	---	---	41.06	6,980
	Bckho-Ldr Ct 420C 1.0cy	170	LF	4.250	0.235	40	OP2 49.26	1,970	50.26	2,010	---	---	---	---	---	---	23.42	3,981
	Trench Compactor 24"-33"-O	170	LF	4.250	0.235	---	---	---	44.54	1,782	---	---	---	---	---	---	10.48	1,782
	Tank Trl Water 500 Gal	170	LF	4.250	0.235	---	---	---	15.15	606	---	---	---	---	---	---	3.56	606

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YARD	Yard Piping	1.00
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BE Number BE220007

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Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Dig / Lay / Bury	170.00	LF	1.063	0.941	160	46.33	7,413	55.34	9,408	---	---	---	---	---	---	98.94	16,820
	Utility Crossings	1 EA																
	1 EA SRP Electrical Crossing																	
2	SP Crew	1 EA		0.250	4.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	347.19	347
	Bckho-Ldr Ct 420C 1.0cy	1 EA		0.250	4.000	4	OP2 49.26	197	50.26	201	---	---	---	---	---	---	398.06	398
	Trench Compactor 24"-33"-O	1 EA		0.250	4.000	---	---	---	44.54	178	---	---	---	---	---	---	178.17	178
	Tank Trl Water 500 Gal	1 EA		0.250	4.000	---	---	---	15.15	61	---	---	---	---	---	---	60.59	61
	Crossing STS	1 LS		---	---	---	---	---	---	---	---	100	---	---	---	---	---	100
	Utility Crossings	1.00 EA		0.083	12.000	12	45.35	544	439.78	440	100.00	100	---	---	---	---	1,084.01	1,084
	Tie in to Existing	2 EA																
2	SP Crew	2 EA		0.125	8.000	32	SPC 43.40	1,389	---	---	---	---	---	---	---	---	694.37	1,389
	Bckho-Ldr Ct 420C 1.0cy	2 EA		0.125	8.000	16	OP2 49.26	788	50.26	804	---	---	---	---	---	---	796.13	1,592
	Tie in to Existing	2.00 EA		0.042	24.000	48	45.35	2,177	402.05	804	---	---	---	---	---	---	1,490.50	2,981
	Test	1 EA																
2	SP Crew	1 EA		0.125	8.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	694.37	694
	Comp 185 CFM Diesel	1 EA		0.125	8.000	---	---	---	20.59	165	---	---	---	---	---	---	164.74	165
	Test	1.00 EA		0.063	16.000	16	43.40	694	164.74	165	---	---	---	---	---	---	859.11	859
	12" WL Inside Plant	170.00	LF	0.720	1.388	236	45.88	10,828	63.62	10,816	0.588235	100	---	---	---	---	127.91	21,744
	1 1/2" Copper WL	150 LF																
	Piping tie off of 12" WL running north into plant																	
	Type "K" Copper Pipe																	
	Solder																	
	Estiamted at 4'																	
	No Soils Report - Type "C"																	
	Dig / Lay / Bury	150 LF																
2	SP Crew	150 LF		6.250	0.160	48	SPC 43.40	2,083	---	---	---	---	---	---	---	---	13.89	2,083
	Bckho-Ldr Ct 420C 1.0cy	150 LF		6.250	0.160	24	OP2 49.26	1,182	50.26	1,206	---	---	---	---	---	---	15.92	2,388
	Trench Compactor 24"-33"-O	150 LF		6.250	0.160	24	SPC 43.40	1,042	44.54	1,069	---	---	---	---	---	---	14.07	2,111

YARD	Yard Piping	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Tank Trl Water 500 Gal	150	LF	6.250	0.160	---	---	---	15.15	364	---	---	---	---	---	---	2.42	364
	Dig / Lay / Bury	150.00	LF	1.563	0.640	96	44.86	4,307	17.59	2,639	---	---	---	---	---	---	46.30	6,946
	Utility Crossings	1 EA																
	1 EA SRP Electrical Crossing																	
2	SP Crew	1 EA		0.500	2.000	4	SPC 43.40	174	---	---	---	---	---	---	---	---	173.59	174
	Bckho-Ldr Ct 420C 1.0cy	1 EA		0.500	2.000	2	OP2 49.26	99	50.26	101	---	---	---	---	---	---	199.03	199
	Trench Compactor 24"-33"-O	1 EA		0.500	2.000	2	SPC 43.40	87	44.54	89	---	---	---	---	---	---	175.88	176
	Tank Trl Water 500 Gal	1 EA		0.500	2.000	---	---	---	15.15	30	---	---	---	---	---	---	30.30	30
	Crossing STS	1 LS		---	---	---	---	---	---	---	---	50	---	---	---	---	---	50
	Utility Crossings	1.00 EA		0.125	8.000	8	44.86	359	219.89	220	50.00	50	---	---	---	---	628.80	629
	Risers	1 EA																
2	SP Crew	1 EA		0.250	4.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	347.19	347
	Bckho-Ldr Ct 420C 1.0cy	1 EA		0.250	4.000	4	OP2 49.26	197	50.26	201	---	---	---	---	---	---	398.06	398
	Trench Compactor 24"-33"-O	1 EA		0.250	4.000	4	SPC 43.40	174	44.54	178	---	---	---	---	---	---	351.76	352
	Tank Trl Water 500 Gal	1 EA		0.250	4.000	---	---	---	15.15	61	---	---	---	---	---	---	60.59	61
	Risers	1.00 EA		0.063	16.000	16	44.86	718	439.78	440	---	---	---	---	---	---	1,157.60	1,158
	Test	1 EA																
2	SP Crew	1 EA		0.125	8.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	694.37	694
	Comp 185 CFM Diesel	1 EA		0.125	8.000	---	---	---	20.59	165	---	---	---	---	---	---	164.74	165
	Test	1.00 EA		0.063	16.000	16	43.40	694	164.74	165	---	---	---	---	---	---	859.11	859
	Slurry Backfill	1.50 CY																
	Under Existing CMU Wall																	
	Backfill On Each Side prior to Slurry Fill																	
	Pour at sametime as 12" WL with same Truck																	
	1 Sack Slurry	1.50 CY		---	---	---	---	---	---	---	---	---	102.00	153	---	---	102.00	153
	1 Sack Slurry Waste 20%	0.30 CY		---	---	---	---	---	---	---	---	---	102.00	31	---	---	102.00	31
	Environmental Fee					1.00	LD						25.00					
	Fuel Surcharge					1.00	LD						15.00					
	Washout					1.00	LD						25.00					

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YARD	Yard Piping	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

Detail Page 19 of 50

Mar 25, 2022

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Short Load Fee					1	.00 EA						20	.00				
2	SP Crew	1	HR	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	86.80	87
	Slurry Backfill	1.50	CY	0.750	1.333	2	43.40	87	---	---	---	---	122.40	184	---	---	180.26	270
1	1/2" Copper WL	150.00	LF	1.087	0.920	138	44.67	6,165	23.09	3,463	0.333333	50	1.22	184	---	---	65.74	9,862
	3/8" Copper Chlorine Sample Line	120	LF															
	Connect to new 12" WL Header and run to new Chlorination System																	
	Type "K" Copper																	
	Solder																	
	Estimated at 4' Deep																	
	No Soils Report - Type "C"																	
	Dig / Lay / Bury	120	LF															
2	SP Crew	120	LF	12.000	0.083	20	SPC 43.40	868	---	---	---	---	---	---	---	---	7.23	868
	Bckho-Ldr Ct 420C 1.0cy	120	LF	12.000	0.083	10	OP2 49.26	493	50.26	503	---	---	---	---	---	---	8.29	995
	Trench Compactor 24"-33"-O	120	LF	12.000	0.083	10	SPC 43.40	434	44.54	445	---	---	---	---	---	---	7.33	879
	Tank Trl Water 500 Gal	120	LF	12.000	0.083	---	---	---	15.15	151	---	---	---	---	---	---	1.26	151
	Dig / Lay / Bury	120.00	LF	3.000	0.333	40	44.86	1,795	9.16	1,099	---	---	---	---	---	---	24.12	2,894
	Risers	1	EA															
2	SP Crew	1	EA	0.250	4.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	347.19	347
	Bckho 316EL .68cy -O	1	EA	0.250	4.000	4	OP2 49.26	197	125.24	501	---	---	---	---	---	---	698.01	698
	Trench Compactor 24"-33"-O	1	EA	0.250	4.000	---	---	---	44.54	178	---	---	---	---	---	---	178.17	178
	Tank Trl Water 500 Gal	1	EA	0.250	4.000	---	---	---	15.15	61	---	---	---	---	---	---	60.59	61
	Risers	1.00	EA	0.083	12.000	12	45.35	544	739.73	740	---	---	---	---	---	---	1,283.96	1,284
	Utility Crossings	1	EA															
2	SP Crew	1	EA	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	86.80	87
	Bckho-Ldr Ct 420C 1.0cy	1	EA	1.000	1.000	1	OP2 49.26	49	50.26	50	---	---	---	---	---	---	99.52	100
	Trench Compactor 24"-33"-O	1	EA	1.000	1.000	1	SPC 43.40	43	44.54	45	---	---	---	---	---	---	87.94	88
	Tank Trl Water 500 Gal	1	EA	1.000	1.000	---	---	---	15.15	15	---	---	---	---	---	---	15.15	15
	Crossing STS	1	LS	---	---	---	---	---	---	---	---	50	---	---	---	---	---	50

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YARD	Yard Piping	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

Detail Page 20 of 50

Mar 25, 2022

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Utility Crossings	1.00	EA	0.250	4.000	4	44.86	179	109.95	110	50.00	50	---	---	---	---	339.40	339
	Test	1	EA															
2	SP Crew	1	EA	0.125	8.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	694.37	694
	Comp 185 CFM Diesel	1	EA	0.125	8.000	---	---	---	20.59	165	---	---	---	---	---	---	164.74	165
	Test	1.00	EA	0.063	16.000	16	43.40	694	164.74	165	---	---	---	---	---	---	859.11	859
	3/8" Copper Chlorine Sample Line	120.00	LF	1.667	0.600	72	44.62	3,213	17.62	2,114	0.416667	50	---	---	---	---	44.80	5,376
	3/4" PVC Chlorine Sample Drain	150	LF															
	Tie into existing SRP Vault outside of Site and run to new Chlorination System																	
	SCH 80 PVC Pipe																	
	Solvent Weld																	
	Estimated at 4' Depth																	
	No Soils Report - Type "C"																	
	Dig / Lay / Bury	150	LF															
2	SP Crew	150	LF	6.250	0.160	48	SPC 43.40	2,083	---	---	---	---	---	---	---	---	13.89	2,083
	Bckho-Ldr Ct 420C 1.0cy	150	LF	6.250	0.160	24	OP2 49.26	1,182	50.26	1,206	---	---	---	---	---	---	15.92	2,388
	Trench Compactor 24"-33"-O	150	LF	6.250	0.160	24	SPC 43.40	1,042	44.54	1,069	---	---	---	---	---	---	14.07	2,111
	Tank Trl Water 500 Gal	150	LF	6.250	0.160	---	---	---	15.15	364	---	---	---	---	---	---	2.42	364
	Dig / Lay / Bury	150.00	LF	1.563	0.640	96	44.86	4,307	17.59	2,639	---	---	---	---	---	---	46.30	6,946
	Utility Crossings	1	EA															
2	SPCR	1	EA	0.500	2.000	4	SPC 43.40	174	---	---	---	---	---	---	---	---	173.59	174
	Bckho-Ldr Ct 420C 1.0cy	1	EA	0.500	2.000	2	OP2 49.26	99	50.26	101	---	---	---	---	---	---	199.03	199
	Trench Compactor 24"-33"-O	1	EA	0.500	2.000	2	SPC 43.40	87	44.54	89	---	---	---	---	---	---	175.88	176
	Tank Trl Water 500 Gal	1	EA	0.500	2.000	---	---	---	15.15	30	---	---	---	---	---	---	30.30	30
	Crossing STS	1	LS	---	---	---	---	---	---	---	---	50	---	---	---	---	---	50
	Utility Crossings	1.00	EA	0.125	8.000	8	44.86	359	219.89	220	50.00	50	---	---	---	---	628.80	629
	Tie in to Existing	1	EA															
P	4" Core Drill	1	EA	---	---	---	---	---	---	---	350.00	350	---	---	---	---	350.00	350

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YARD	Yard Piping	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

YARD	Yard Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
2	SP Crew	1	EA	0.125	8.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	694.37	694
	Bckho-Ldr Ct 420C 1.0cy	1	EA	0.125	8.000	8	OP2 49.26	394	50.26	402	---	---	---	---	---	---	796.13	796
Tie in to Existing		1.00	EA	0.042	24.000	24	45.35	1,088	402.05	402	350.00	350	---	---	---	---	1,840.50	1,841
Test		1	EA															
2	SP Crew	1	EA	0.125	8.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	694.37	694
	Comp 185 CFM Diesel	1	EA	0.125	8.000	---	---	---	20.59	165	---	---	---	---	---	---	164.74	165
Test		1.00	EA	0.063	16.000	16	43.40	694	164.74	165	---	---	---	---	---	---	859.11	859
Slurry Backfill		1	CY															
Under Existing CMU Wall																		
Backfill On Each Side prior to Slurry Fill																		
	1 Sack Slurry	1	CY	---	---	---	---	---	---	---	---	---	102.00	102	---	---	102.00	102
	1 Sack Slurry Waste 20%	0.20	CY	---	---	---	---	---	---	---	---	---	102.00	20	---	---	102.00	20
	Environmental Fee	1	LD	---	---	---	---	---	---	---	---	---	25.00	25	---	---	25.00	25
	Fuel Surcharge	1	LD	---	---	---	---	---	---	---	---	---	32.00	32	---	---	32.00	32
	Washout	1	LD	---	---	---	---	---	---	---	---	---	25.00	25	---	---	25.00	25
	Short Load Fee	1	EA	---	---	---	---	---	---	---	---	---	200.00	200	---	---	200.00	200
2	SP Crew	1	HR	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	86.80	87
Slurry Backfill		1.00	CY	0.500	2.000	2	43.40	87	---	---	---	---	404.40	404	---	---	491.20	491
3/4" PVC Chlorine Sample Drain		150.00	LF	1.027	0.973	146	44.76	6,535	22.84	3,425	2.67	400	2.70	404	---	---	71.77	10,765
Production Pipe Subtotal		685.00	LF	0.825	1.212	830	45.34	37,633	45.13	30,917	1.75	1,200	3.18	2,178	---	---	105.00	71,928
Buried Pipe		1.00	LS	---	---	836	45.34	37,905	---	31,018	---	5,360	---	49,462	---	139,750	---	263,495
Yard Piping		1.00	LS	---	---	836	45.34	37,905	---	31,018	---	5,360	---	49,462	---	139,750	---	263,495

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YARD	Yard Piping	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

CONC	Concrete	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit
CONCRETE		2	CY														
Sub Grade Prep		15	SF														
Quantities						15.00											
3	Foundation Prep	15	SF	8.000	0.125	6	SPC 43.40	244	---	---	---	---	---	---	---	16.27	244
	Bckho-Ldr Ct 420C 1.0cy	15	SF	8.000	0.125	2	OP2 49.26	92	50.26	94	---	---	---	---	---	12.44	187
	Trench Compactor 24"-33"	15	SF	8.000	0.125	---	---	---	44.54	84	---	---	---	---	---	5.57	84
Sub Grade Prep		15.00	SF	2.000	0.500	8	44.86	336	11.85	178	---	---	---	---	---	34.28	514
Concrete Formwork		44	SF														
Fab Formwork		44	SF														
Fab SOG		44	SF														
Fab SOG Forms (Stick Built)						44.00											
	Fab SOG Forms	44	SF	8.000	0.125	6	SPC 43.40	239	---	---	---	---	---	---	---	5.42	239
	Form Ply 3/4"	48.40	SF	---	---	---	---	---	---	---	2.10	102	---	---	---	2.10	102
	Dimen. Lumber (2x4-2x10)	96.80	BF	---	---	---	---	---	---	---	1.21	117	---	---	---	1.21	117
	Form Hardware	44	SF	---	---	---	---	---	---	---	0.300000	13	---	---	---	0.300000	13
Fab SOG		44.00	SF	8.000	0.125	6	43.40	239	---	---	5.27	232	---	---	---	10.70	471
Fab Formwork		44.00	SF	8.000	0.125	6	43.40	239	---	---	5.27	232	---	---	---	10.70	471
Erect and Strip Formwork		44	SF														
Totals Formwork						44.00	sf										
	Form Oil	44	SF	---	---	---	---	---	---	---	0.030000	1	---	---	---	0.030000	1
	Erect and Strip Supplies	44	SF	---	---	---	---	---	---	---	0.250000	11	---	---	---	0.250000	11

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CONC	Concrete	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

CONC	Concrete	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit
Misc. SOG / Equipment Pads		44 SF															
Backflow Preventers / Equip Pads						44.00											
SOG	34 SF	2.000	0.500	17	SPC	43.40	738	---	---	---	---	---	---	---	---	21.70	738
Equip and Pipe Fdns/Supports	10 SF	1.500	0.667	7	SPC	43.40	289	---	---	---	---	---	---	---	---	28.93	289
Misc. SOG / Equipment Pads		44.00 SF	1.859	0.538	24	43.40	1,027	---	---	---	---	---	---	---	---	23.34	1,027
Loose Formwork		10 SF															
Equip and Pipe Fdns/Supports						10.00											
Form Ply 3/4"	11 SF	---	---	---	---	---	---	---	---	2.10	23	---	---	---	---	2.10	23
Dimen. Lumber (2x4-2x10)	22 BF	---	---	---	---	---	---	---	---	1.21	27	---	---	---	---	1.21	27
Loose Formwork		10.00 SF	---	---	---	---	---	---	---	4.97	50	---	---	---	---	4.97	50
Erect and Strip Formwork		44.00 SF	1.859	0.538	24	43.40	1,027	---	---	1.41	62	---	---	---	---	24.75	1,089
Concrete Formwork		44.00 SF	1.509	0.663	29	43.40	1,266	---	---	6.68	294	---	---	---	---	35.45	1,560
03300 Cast In Place Concrete		2 CY															
Concrete Materials		2.50 CY															
TOTAL CONCRETE						2.00 Cy											
CONC BASE BID						2.00											
Conc.4000 Psi	2 CY	---	---	---	---	---	---	---	---	---	---	148.00	296	---	---	148.00	296
Conc.4000 Psi Waste 5%	0.50 CY	---	---	---	---	---	---	---	---	---	---	148.00	74	---	---	148.00	74
Enviromental Fees	2 LD	---	---	---	---	---	---	---	---	25.00	50	---	---	---	---	25.00	50
Fuel Surcharge	2 LD	---	---	---	---	---	---	---	---	32.00	64	---	---	---	---	32.00	64
Washout	2 EA	---	---	---	---	---	---	---	---	25.00	50	---	---	---	---	25.00	50
Short Load Fees	2 EA	---	---	---	---	---	---	---	---	250.00	500	---	---	---	---	250.00	500

CONC	Concrete	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

Detail Page 24 of 50

Mar 25, 2022

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Item Analysis Sheet

CONC	Concrete	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit
	Conc. Placing Supplies	2 CY		---	---	---	---	---	---	1.00	2	---	---	---	---	1.00	2
	Concrete Materials	2.50 CY		---	---	---	---	---	---	266.40	666	148.00	370	---	---	414.40	1,036
	Concrete Placement	2 CY															
	Total Concrete CY					2.00											
	Misc. Placements	1 CY															
	Backflow Preventors / Equip Pads					2.00 CY											
	Sog	1 CY	0.125	8.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	347.19	347
	Equipment Pads	1 CY	0.125	8.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	347.19	347
	Misc. Placements	1.00 CY	0.063	16.000	16	43.40	694	---	---	---	---	---	---	---	---	694.37	694
	Concrete Placement	2.00 CY	0.125	8.000	16	43.40	694	---	---	---	---	---	---	---	---	347.19	694
	03300 Cast In Place Concrete	2.00 CY	0.125	8.000	16	43.40	694	---	---	333.00	666	185.00	370	---	---	865.19	1,730
	03251 Concrete Joints	2 CY															
	Concrete Joint Qty					21.00											
	Joint Prep-Waterblast	21 SF															
	Horizontal CJ Retardant Labor	21 SF	7.000	0.143	3	SPC 43.40	130	---	---	---	---	---	---	---	---	6.20	130
	Joint Prep (Waterblast)	21 SF	20.000	0.050	1	SPC 43.40	46	---	---	---	---	---	---	---	---	2.17	46
	Waterblast Equip. & STS	1 LS	---	---	---	---	---	---	---	---	500	---	---	---	---	---	500
	Horizontal CJ + 10% Retardant Purchase	21 SF	---	---	---	---	---	---	---	0.300000	6	---	---	---	---	0.300000	6
	Joint Prep-Waterblast	21.00 SF	5.185	0.193	4	43.40	176	---	---	24.11	506	---	---	---	---	32.48	682
	03251 Concrete Joints	2.00 CY	0.494	2.025	4	43.40	176	---	---	253.15	506	---	---	---	---	341.03	682
	Conc Finishing	36 SF															
	Quantities					36.00 SF											

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CONC	Concrete	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

Detail Page 25 of 50

Mar 25, 2022

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Item Analysis Sheet

CONC	Concrete	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Wet Finish Supplies	36	SF	---	---	---	---	---	---	---	1.00	36	---	---	---	---	1.00	36
	Conc Finishing	36.00	SF	---	---	---	---	---	---	---	1.00	36	---	---	---	---	1.00	36
	Curing	2	CY															
	Curing	100	SF															
	Quantities					100.00	SF											
	Curing Labor	100	SF	50.000	0.020	2	SPC 43.40	87	---	---	---	---	---	---	---	---	0.867968	87
	Water Curing Supplies	100	SF	---	---	---	---	---	---	---	0.750000	75	---	---	---	---	0.750000	75
	Curing	100.00	SF	50.000	0.020	2	43.40	87	---	---	0.750000	75	---	---	---	---	1.62	162
	Curing	2.00	CY	1.000	1.000	2	43.40	87	---	---	37.50	75	---	---	---	---	80.90	162
	03200 Conc Reinforcement	0.20	TN															
	Rebar Sub: Supply & Install	0.20	TN															
	Purchase Form Savers																	
	Mech. Coupler #5	---	EA	---	---	---	---	---	---	---	---	---	26.70	---	---	---	---	---
	Rebar Subcontractor																	
	Reinforcement Supply	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	360	---	360
	SP Install	400	LB	50.000	0.020	8	SPC 43.40	347	---	---	---	---	---	---	---	---	0.867968	347
	Rebar Sub: Supply & Install	0.20	TN	0.025	40.000	8	43.40	347	---	---	---	---	---	---	1,800.00	360	3,535.94	707
	Install Formsavers/Drill Dowel	24	EA															
	Drill & Dowel Rebar																	
	Tablet Chlorinator Feed Equipment Pad																	

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CONC	Concrete	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

CONC	Concrete	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Drill in Dowels up to 12 " Depth	24	EA	3.000	0.333	8	SPC 43.40	347	---	---	---	---	---	---	---	---	14.47	347
	STS Dowels incl's Epoxy, Drills, Bits Etc.	24	EA	---	---	---	---	---	---	---	9.00	216	---	---	---	---	9.00	216
	Install Formsavers/Drill Dowel	24.00	EA	3.000	0.333	8	43.40	347	---	---	9.00	216	---	---	---	---	23.47	563
	03200 Conc Reinforcement	0.20	TN	0.013	80.000	16	43.40	694	---	---	1,080.00	216	---	---	1,800.00	360	6,351.87	1,270
	CONCRETE	2.00	CY	0.027	37.358	75	43.55	3,254	88.87	178	896.62	1,793	185.00	370	180.00	360	2,977.29	5,955
	Concrete	1.00	LS	---	---	75	43.55	3,254	---	178	---	1,793	---	370	---	360	---	5,955

CONC	Concrete	1.00
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Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

MET	Misc. Metals	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Pipe Support purchase and install included in Exposed Piping Section																	
	Misc. Metal Supply - SH Eng.	1	LS	---	---	---	---	---	---	---	---	---	---	7,125	---	10,000	---	17,125
	Bond SH Engineering	10,000	EA	---	---	---	---	---	---	---	---	---	0.030000	300	---	---	0.030000	300
	Checkered Plate	7.50	SF															
	Note 9 / Sheet M-1																	
	1/4" Thick Alum. Checkered Plate	7.50	SF	---	---	---	---	---	---	---	---	---	100.00	750	---	---	100.00	750
	SP Crew	2	HR	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	43.40	87
	Checkered Plate	7.50	SF	3.750	0.267	2	43.40	87	---	---	---	---	100.00	750	---	---	111.57	837
	Hose Rack	1	EA															
	Hose Rack - SH Engineering					1.00	EA						500.00					
	5/8" Wedge Anchors	4	EA	---	---	---	---	---	---	---	---	---	5.00	20	---	---	5.00	20
	STS	1	LS	---	---	---	---	---	---	---	---	100	---	---	---	---	---	100
	SP Crew Hose Rack	1	EA	0.125	8.000	8	SPC 43.40	347	---	---	---	---	---	---	---	---	347.19	347
	SP Crew Anchors	4	EA	4.000	0.250	1	SPC 43.40	43	---	---	---	---	---	---	---	---	10.85	43
	Hose Rack	1.00	EA	0.111	9.000	9	43.40	391	---	---	100.00	100	20.00	20	---	---	510.59	511
	Supply Portable Tow Step Access Platform	1	EA															
	W=36" / D=48" / H=18"																	
	Cost Covered in SH Total Price Above Access Platform SH Engineering					1.00	LS											
	No Labor Included as it is removable																	

MET	Misc. Metals	1.00
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Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

MET	Misc. Metals	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Supply Portable Tow Step Access P	1.00	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Chlorine Roof Enclosure	1	EA															
	Price Included in SH Supply Above																	
	SH Engineering	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Chlorine Roof Enclosure	1.00	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Chain Link Fence	1	LS															
	Includes Rebar Cages & Footings																	
	Sherwood Welding	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	11,296	---	11,296
	Chain Link Fence	1.00	LS	---	---	---	---	---	---	---	---	---	---	---	---	11,296	---	11,296
	Bollards	2	EA															
	Bollards	2	EA	---	---	---	---	---	---	---	---	---	300.00	600	---	---	300.00	600
	Excavate																	
	SP Crew	1	CY	0.500	2.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	86.80	87
	Bckho-Ldr Ct 420C 1.0cy	1	CY	0.500	2.000	2	OP2 49.26	99	50.26	101	---	---	---	---	---	---	199.03	199
	Tank Trl Water 500 Gal	1	CY	0.500	2.000	---	---	---	15.15	30	---	---	---	---	---	---	30.30	30
	Set Bollards																	
	SP Crew	2	EA	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	43.40	87
	Backfill																	
	4,000psi Concrete	1	CY	---	---	---	---	---	---	---	---	---	148.00	148	---	---	148.00	148
	4,000psi Waste 20%	0.20	CY	---	---	---	---	---	---	---	---	---	148.00	30	---	---	148.00	30
	Environmental Fee	1	LD	---	---	---	---	---	---	---	25.00	25	---	---	---	---	25.00	25
	Fuel Surcharge	1	LD	---	---	---	---	---	---	---	32.00	32	---	---	---	---	32.00	32
	Washout	1	LD	---	---	---	---	---	---	---	25.00	25	---	---	---	---	25.00	25

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MET	Misc. Metals	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

MET	Misc. Metals	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Short Load Fee	1	EA	---	---	---	---	---	---	---	250.00	250	---	---	---	---	250.00	250
2	SP Crew	1	HR	1.000	1.000	2	SPC 43.40	87	---	---	---	---	---	---	---	---	86.80	87
	Grout Fill																	
	Non-Shrink Grout	1	CF	---	---	---	---	---	---	---	---	---	50.00	50	---	---	50.00	50
2	SP Crew	1	CF	0.500	2.000	4	SPC 43.40	174	---	---	---	---	---	---	---	---	173.59	174
Bollards		2.00	EA	0.167	6.000	12	44.38	533	65.40	131	166.00	332	413.80	828	---	---	911.46	1,823
Misc. Metals		1.00	LS	---	---	23	43.91	1,010	---	131	---	432	---	9,023	---	21,296	---	31,891



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Project City of Chandler JOC - N. Alma School Road Well Chlorinati
Location Chandler, AZ, USA

Item Analysis Sheet

COAT	Coatings	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Exposed Piping (12" WL) / Chemical Piping / Pipe Identification / Chlorine Enclosure																	
	PPS	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	19,025	---	19,025
Coatings				1.00	LS	---	---	---	---	---	---	---	---	---	---	19,025	---	19,025

COAT	Coatings	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

EQUI	Equipment	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit
Chlorination System		1 LS															
Analyzer Covered by Electrical Contractor																	
	Chlorination System	1 LS	---	---	---	---	---	---	---	---	---	---	26,285	---	---	---	26,285
	Chlorination System Freight	1 LS	---	---	---	---	---	---	---	---	---	---	495	---	---	---	495
	SCADA / Interface with Staff	1 DY	---	---	---	---	---	---	---	---	---	1,500.00	1,500	---	---	1,500.00	1,500
Install - Chlorination System																	
Includes Offloading / Setting / Filter & PRV Install (Shipped Loosed and to be Installed)																	
2	SP Crew - Chlorination System	4 HR	1.000	1.000	8 SPC	43.40	347	---	---	---	---	---	---	---	---	86.80	347
Install - Chlorine Analyzer																	
2	SP Crew - Chlorination System	4 HR	1.000	1.000	8 SPC	43.40	347	---	---	---	---	---	---	---	---	86.80	347
Chlorination System		1.00 LS	---	---	16	43.40	694	---	---	---	---	---	28,280	---	---	---	28,974
Site Signage		1 LS															
	Project Signs	8 EA	---	---	---	---	---	---	---	---	---	75.00	600	---	---	75.00	600
	Mounting Materials	1 LS	---	---	---	---	---	---	---	---	50	---	---	---	---	---	50
	SP Crew	8 EA	2.000	0.500	4 SPC	43.40	174	---	---	---	---	---	---	---	---	21.70	174
Site Signage		1.00 LS	---	---	4	43.40	174	---	---	---	50	---	600	---	---	---	824
Equipment		1.00 LS	---	---	20	43.40	868	---	---	---	50	---	28,880	---	---	---	29,798



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Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

PIPE Exposed Piping 1.00 LS

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Exposed Pipe	1	LS															
	Purchase Pipe Materials (Exposed)	1	LS															
	Exposed Pipe Materials	1	LS															
	Pipe Purchase - Ferguson	1	LS	---	---	---	---	---	---	---	---	---	---	19,356	---	---	---	19,356
	Supports - Ferguson	1	LS	---	---	---	---	---	---	---	---	---	---	9,313	---	---	---	9,313
	Unload & Store Pipe Materials																	
	Bckho-Ldr Ct 420C 1.0cy	2	HR	1.000	1.000	2	OP2 49.26	99	50.26	101	---	---	---	---	---	---	99.52	199
	2 Yard Pipe Crew	2	HR	1.000	1.000	4	SPC 43.40	174	---	---	---	---	---	---	---	---	86.80	174
	Exposed Pipe Materials	1.00	LS	---	---	6	45.35	272	---	101	---	---	---	28,669	---	---	---	29,042
	Temporary Pipe Materials	1	LS															
	STS - Installation (Exposed)	1	LS	---	---	---	---	---	---	---	---	200	---	---	---	---	---	200
	STS - Rigging (Exposed)	1	LS	---	---	---	---	---	---	---	---	50	---	---	---	---	---	50
	STS - Testing (Exposed)	1	LS	---	---	---	---	---	---	---	---	200	---	---	---	---	---	200
	PIPE SUPPORTS GROUTING																	
	Non-Shrink Grout	3.60	CF	---	---	---	---	---	---	---	50.00	180	---	---	---	---	50.00	180
	SP Crew	3.60	CF	0.600	1.667	6	SPC 43.40	260	---	---	---	---	---	---	---	---	72.33	260
	PIPE SUPPORT MATERIALS / INSTALL																	
	Install																	
	SP Crew Base Anchors	40	EA	4.000	0.250	10	SPC 43.40	434	---	---	---	---	---	---	---	---	10.85	434

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PIPE Exposed Piping 1.00



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Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

PIPE	Exposed Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	SP Crew Uni Strut	140	LF	3.170	0.315	44	SPC 43.40	1,917	---	---	---	---	---	---	---	---	13.69	1,917
	SP Pipe Clamps	24	EA	3.000	0.333	8	SPC 43.40	347	---	---	---	---	---	---	---	---	14.47	347
	Temporary Pipe Materials	1.00	LS	---	---	68	43.40	2,958	---	---	---	630	---	---	---	---	---	3,588
	Purchase Pipe Materials (Exposed)	1.00	LS	---	---	74	43.56	3,230	---	101	---	630	---	28,669	---	---	---	32,630
	Install Piping (Exposed)	1	LS															
	Direct Manhours	1	LS															
	Process Pipe Install	120	HR	1.000	1.000	120	SPC 43.40	5,208	---	---	---	---	---	---	---	---	43.40	5,208
	Direct Manhours	1.00	LS	---	---	120	43.40	5,208	---	---	---	---	---	---	---	---	---	5,208
	Pipe Testing	1	LS															
	WL to Hose Bib / Chlorine / Supply Line																	
	2 Test Pipe Crew	3	EA	0.125	8.000	48	SPC 43.40	2,083	---	---	---	---	---	---	---	---	694.37	2,083
	Comp 185 CFM Diesel	3	EA	0.125	8.000	---	---	---	20.59	494	---	---	---	---	---	---	164.74	494
	Disinfection																	
	Materials	1	LS	---	---	---	---	---	---	---	---	---	---	250	---	---	---	250
	SP Crew	16	HR	1.000	1.000	16	SPC 43.40	694	---	---	---	---	---	---	---	---	43.40	694
	Pipe Testing	1.00	LS	---	---	64	43.40	2,777	---	494	---	---	---	250	---	---	---	3,522
	Install Piping (Exposed)	1.00	LS	---	---	184	43.40	7,985	---	494	---	---	---	250	---	---	---	8,730
	Exposed Pipe	1.00	LS	---	---	258	43.44	11,216	---	595	---	630	---	28,919	---	---	---	41,359

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PIPE	Exposed Piping	1.00
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BE Number BE220007
Opportunity No
Owner File No
Project City of Chandler JOC - N. Alma School Road Well Chlorinati
Location Chandler, AZ, USA

Item Analysis Sheet

PIPE	Exposed Piping	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Exposed Piping	1.00	LS	---	---	258	43.44	11,216	---	595	---	630	---	28,919	---	---	---	41,359

PIPE	Exposed Piping	1.00
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BE Number BE220007
Opportunity No
Owner File No
Project City of Chandler JOC - N. Alma School Road Well Chlorinati
Location Chandler, AZ, USA

Item Analysis Sheet

ELE	Electrical	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Rural Electric	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	69,662	---	69,662
	Training (Chlorine Analyzer)	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	5,341	---	5,341
	Grounding Resistance Testing	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	1,800	---	1,800
	Engineering	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	1,500	---	1,500
	Electrical	1.00	LS	---	---	---	---	---	---	---	---	---	---	---	---	78,303	---	78,303

ELE	Electrical	1.00
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Project City of Chandler JOC - N. Alma School Road Well Chlorinati
Location Chandler, AZ, USA

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Item Analysis Sheet

ALL	Contingency	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	CMU / Escalation Contingency	1	LS															
	CMU Wall																	
	Carrying Allowance for existing CMU Coating / Repairs																	
	Contingency	1	LS	---	---	---	---	---	---	---	---	5,000	---	---	---	---	---	5,000
	Escalation																	
	5% Total Pipe Package	1	LS	---	---	---	---	---	---	---	---	---	---	10,000	---	---	---	10,000
	5% Steel / Misc. Materials	1	LS	---	---	---	---	---	---	---	---	---	---	2,000	---	---	---	2,000
	CMU / Escalation Contingency	1.00	LS	---	---	---	---	---	---	---	---	5,000	---	12,000	---	---	---	17,000
	Contingency	1.00	LS	---	---	---	---	---	---	---	---	5,000	---	12,000	---	---	---	17,000



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Opportunity No
Owner File No
Project City of Chandler JOC - N. Alma School Road Well Chlorinati
Location Chandler, AZ, USA

Item Analysis Sheet

GE 1	GENERAL EXPENSE	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	SCHEDULE: Constructiong - Does not include Procurement Duration ----- SPECIFIED SCHEDULE =109 CALENDER DAYS = 3 MONTHS 17 DY = 16 WEEKS CONTRACT AWARD DATE:___TBD_____ START DATE: October 24, 2022 COMPLETION DATE: February 10, 2023 JOB DURATION = 3/16 MOS/WKS																	
GENERAL EXPENSE		1.00	LS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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U01 STANDARD-LANDSCAPE-MASTER.RPT C:\Users\JWMcRae\AppData\Local\BEST\LocalFiles\e3ba87ac-84dc-4ccf-846f-792cbc542d42\	GE 1	GENERAL EXPENSE	1.00
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BE Number BE220007

Opportunity No

Owner File No

Project

Location

City of Chandler JOC - N. Alma School Road Well Chlorinati
Chandler, AZ, USA

Item Analysis Sheet

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GE 3	F1 MOBILIZE & DEMOBILIZE	100.00 %
-------------	-------------------------------------	-----------------

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	MOBILIZE	100 %																
	Freight In	100 %																
	Equipment Freight -IN	1 LS		---	---	---	---	---	---	---	---	1,000	---	---	---	---	---	1,000
	Freight In	100.00 %		---	---	---	---	---	---	---	10.00	1,000	---	---	---	---	10.00	1,000
	MOBILIZE	100.00 %		---	---	---	---	---	---	---	10.00	1,000	---	---	---	---	10.00	1,000
	DEMOBILIZE	100 %																
	Freight Out	100 %																
	Equipment Freight -OUT	1 LS		---	---	---	---	---	---	---	---	1,000	---	---	---	---	---	1,000
	Freight Out	100.00 %		---	---	---	---	---	---	---	10.00	1,000	---	---	---	---	10.00	1,000
	DEMOBILIZE	100.00 %		---	---	---	---	---	---	---	10.00	1,000	---	---	---	---	10.00	1,000
	F1 MOBILIZE & DEMOBILIZE	100.00 %		---	---	---	---	---	---	---	20.00	2,000	---	---	---	---	20.00	2,000



BE Number BE220007
Opportunity No
Owner File No
Project City of Chandler JOC - N. Alma School Road Well Chlorinati
Location Chandler, AZ, USA

Item Analysis Sheet

GE 7	F5 DISMAN & RESTORE SITE	100.00	%
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Cleanup & Restore Site	100	%															
	Allowance	1	LS	---	---	---	---	---	---	---	---	2,000	---	---	---	---	---	2,000
	Cleanup & Restore Site	100.00	%	---	---	---	---	---	---	---	20.00	2,000	---	---	---	---	20.00	2,000
	F5 DISMAN & RESTORE SITE	100.00	%	---	---	---	---	---	---	---	20.00	2,000	---	---	---	---	20.00	2,000

GE 7	F5 DISMAN & RESTORE SITE	100.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

GE 8 F6 BOND 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	SUBCONTRACT BOND	100 %																
	Sub-Contract	271,774	SC	---	---	---	---	---	---	---	0.013500	3,669	---	---	---	---	0.013500	3,669
	SUBCONTRACT BOND	100.00 %		---	---	---	---	---	---	---	36.69	3,669	---	---	---	---	36.69	3,669
	Equipment Bond	100 %																
	Bond	26,285	EA	---	---	---	---	---	---	---	---	---	0.013500	355	---	---	0.013500	355
	Equipment Bond	100.00 %		---	---	---	---	---	---	---	---	---	3.55	355	---	---	3.55	355
	F6 BOND	100.00 %		---	---	---	---	---	---	---	36.69	3,669	3.55	355	---	---	40.24	4,024



BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

GE 14 V4 OPERATE UTILITIES 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Oper Telephone System	100	%															
	Oper Telephone System	100.00	%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Site Services	100	%															
2	Portable Toilets	3.50	MO	---	---	---	---	---	---	---	250.00	1,750	---	---	---	---	500.00	1,750
	Garbage Pickup	3.50	MO	---	---	---	---	---	---	---	800.00	2,800	---	---	---	---	800.00	2,800
	Site Services	100.00	%	---	---	---	---	---	---	---	45.50	4,550	---	---	---	---	45.50	4,550
	V4 OPERATE UTILITIES	100.00	%	---	---	---	---	---	---	---	45.50	4,550	---	---	---	---	45.50	4,550



BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

GE 15 V5 OPERATE SUPPORT EQUIP 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
VEHICLES		100 %																
Cars & Pickups		100 %																
	Trc Pickup 4x2	3 MO		1.000	1.000	---	---	---	32.82	17,036	---	---	---	---	---	---	5,678.63	17,036
Cars & Pickups		100.00 %		---	---	---	---	---	170.36	17,036	---	---	---	---	---	---	170.36	17,036
VEHICLES		100.00 %		---	---	---	---	---	170.36	17,036	---	---	---	---	---	---	170.36	17,036
EQUIPMENT		100 %																
Equipment		100 %																
	Backhoe																	
	Bckho-Ldr Ct 420C 1.0cy	0.75 MO		1.000	1.000	---	---	---	50.26	6,521	---	---	---	---	---	---	8,694.28	6,521
Excavator																		
	Bckho 316EL .68cy -O	20 HR		1.000	1.000	---	---	---	125.24	2,505	---	---	---	---	---	---	125.24	2,505
Compressor																		
	Comp 185 CFM Diesel	1 MO		1.000	1.000	---	---	---	20.59	3,562	---	---	---	---	---	---	3,562.40	3,562
	65lb Hammer	80 HR		1.000	1.000	---	---	---	1.26	101	---	---	---	---	---	---	1.26	101
Pull Behind Cargo Trailer																		
	Pull Behind Cargo Trailer	2.50 MO		1.000	1.000	---	---	---	1.57	679	---	---	---	---	---	---	271.61	679
Portable Generator																		
	6000W Generator	173 HR		1.000	1.000	---	---	---	4.32	747	---	---	---	---	---	---	4.32	747
Jumping Jack																		
	Jumping Jack	173 HR		1.000	1.000	---	---	---	5.15	891	---	---	---	---	---	---	5.15	891
Equipment		100.00 %		---	---	---	---	---	150.06	15,006	---	---	---	---	---	---	150.06	15,006

GE 15 V5 OPERATE SUPPORT EQUIP 100.00

BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

GE 15 V5 OPERATE SUPPORT EQUIP 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost		
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
Project Dust Control (Water Trucks)		1	LS															
	Water Meter	1	LS	---	---	---	---	---	---	---	---	---	1,500	---	---	---	1,500	
	Pipe STS for Water Meter Connection	1	LS	---	---	---	---	---	---	---	500	---	---	---	---	---	500	
2	SP Crew Set Up	4	HR	1.000	1.000	8	SPC 43.40	347	---	---	---	---	---	---	---	86.80	347	
	Tank Trl Water 500 Gal	1	MO	1.000	1.000	---	---	---	15.15	2,621	---	---	---	---	---	2,620.62	2,621	
	SP Crew	60	HR	1.000	1.000	60	SPC 43.40	2,604	---	---	---	---	---	---	---	43.40	2,604	
Project Dust Control (Water Trucks)		1.00	LS	---	---	68	43.40	2,951	---	2,621	---	500	---	1,500	---	---	7,572	
EQUIPMENT		100.00	%	1.471	0.680	68	43.40	2,951	176.27	17,627	5.00	500	15.00	1,500	---	---	225.78	22,578
V5 OPERATE SUPPORT EQUIP		100.00	%	1.471	0.680	68	43.40	2,951	---	34,663	5.00	500	15.00	1,500	---	---	396.14	39,614

BE Number BE220007

Opportunity No

Owner File No

Project

Location

City of Chandler JOC - N. Alma School Road Well Chlorinati

Chandler, AZ, USA

Item Analysis Sheet

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GE 17	V7 PROJECT STAFF	100.00	%
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Management	100 %																
	Project Manager	1 MO		1.000	1.000	173	ST1 106.69	18,493	---	---	---	---	---	---	---	---	18,492.52	18,493
	Management	100.00 %		0.577	1.733	173	106.69	18,493	---	---	---	---	---	---	---	---	184.93	18,493
	Engineering & Survey	100 %																
	Proj Eng.	1.50 MO		1.000	1.000	260	EN1 82.82	21,532	---	---	---	---	---	---	---	---	14,354.78	21,532
	Engineering & Survey	100.00 %		0.385	2.600	260	82.82	21,532	---	---	---	---	---	---	---	---	215.32	21,532
	Supervision	100 %																
	Structure Supt.	3 MO		1.000	1.000	520	SU1 95.54	49,680	---	---	---	---	---	---	---	---	16,560.05	49,680
	Supervision	100.00 %		0.192	5.200	520	95.54	49,680	---	---	---	---	---	---	---	---	496.80	49,680
	Safety Engineer	100 %																
	Safety Engineer	40 HR		---	---	---	---	---	---	---	---	---	72.63	2,905	---	---	72.63	2,905
	Safety Engineer	100.00 %		---	---	---	---	---	---	---	---	---	29.05	2,905	---	---	29.05	2,905
	V7 PROJECT STAFF	100.00 %		0.105	9.533	953	94.10	89,705	---	---	---	---	29.05	2,905	---	---	926.10	92,610



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Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

GE 19 V9 MANAGEMENT SERVICE 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit
	Permits	1 LS															
P	Traffic Control Permits / Review Fee	1 LS		---	---	---	---	---	---	---	200	---	---	---	---	---	200
P	Dust Control Permit	1 LS		---	---	---	---	---	---	---	1,500	---	---	---	---	---	1,500
	Permits	1.00 LS		---	---	---	---	---	---	---	1,700	---	---	---	---	---	1,700
	Survey	100 %															
	Lemme	1 LS		---	---	---	---	---	---	---	---	---	---	---	3,500	---	3,500
	Survey	100.00 %		---	---	---	---	---	---	---	---	---	---	35.00	3,500	35.00	3,500
	Quality Control	100 %															
	Compaction / Concrete / Asphalt QC covered by Owners																
	Quality Control	100.00 %		---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Office STS	100 %															
	Office Supplies	1 MO		---	---	---	---	---	---	300.00	300	---	---	---	---	300.00	300
	Office STS	100.00 %		---	---	---	---	---	---	3.00	300	---	---	---	---	3.00	300
	First Aid & Safety STS	100 %															
	Medical/Drug Testing	4 EA		---	---	---	---	---	---	75.00	300	---	---	---	---	75.00	300
	Training & Orientation	--- EA		---	---	---	---	---	---	35.00	---	---	---	---	---	---	---
	F.A. & Safety Supplies	2,641 MH		---	---	---	---	---	---	0.120000	317	---	---	---	---	0.120000	317
	Fire Protection	2,641 MH		---	---	---	---	---	---	0.070000	185	---	---	---	---	0.070000	185

U01 STANDARD-LANDSCAPE-MASTER.RPT

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GE 19 V9 MANAGEMENT SERVICE 100.00

BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Item Analysis Sheet

GE 19 V9 MANAGEMENT SERVICE 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Water Coolers	1	EA	---	---	---	---	---	---	---	50.00	50	---	---	---	---	50.00	50
	Drinking Water & Ice	3.50	MO	---	---	---	---	---	---	---	150.00	525	---	---	---	---	150.00	525
	Air Monitors	3.50	MO	1.000	1.000	---	---	---	0.9263	561	---	---	---	---	---	---	160.25	561
	Rescue Tripod w/yo yo	---	MO	1.000	1.000	---	---	---	---	---	---	---	---	---	---	---	---	---
	Yo Yo Winch	---	MO	1.000	1.000	---	---	---	---	---	---	---	---	---	---	---	---	---
	First Aid & Safety STS	100.00	%	---	---	---	---	---	5.61	561	13.77	1,377	---	---	---	---	19.38	1,938
	SMALL Tools-Expendables	100	%															
	Small Tool Assess	2,641	MH	---	---	---	---	---	---	---	1.00	2,641	---	---	---	---	1.00	2,641
	Expendables Assess	2,641	MH	---	---	---	---	---	---	---	0.700000	1,849	---	---	---	---	0.700000	1,849
	SMALL Tools-Expendables	100.00	%	---	---	---	---	---	---	---	44.89	4,489	---	---	---	---	44.89	4,489
	V9 MANAGEMENT SERVICE	100.00	%	---	---	---	---	---	---	561	78.66	7,866	---	---	35.00	3,500	119.27	11,927

BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Mar 25, 2022

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Item Analysis Sheet

GE 20	V10 MISC JOB EXPENSE	100.00	%
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Traffic Protection	100	%															
	W. Summit PL Road Only (Alma School Road Covered in Site Work)																	
	Canyon State Barricade																	
	Single Lane Closure Equip	15	DY	---	---	---	---	---	---	---	90.00	1,350	---	---	---	---	90.00	1,350
	Mid Block Sidewalk Equip	15	DY	---	---	---	---	---	---	---	45.00	675	---	---	---	---	45.00	675
	2 Men 1 Truck Set Up / Tear Down	6	EA	---	---	---	---	---	---	---	85.00	510	---	---	---	---	85.00	510
	Traffic Control Plan	1	LS	---	---	---	---	---	---	---	---	60	---	---	---	---	---	60
	Off Duty Officer	120	HR	---	---	---	---	---	---	---	---	---	90.00	10,800	---	---	90.00	10,800
	Traffic Protection	100.00	%	---	---	---	---	---	---	---	25.95	2,595	108.00	10,800	---	---	133.95	13,395
	V10 MISC JOB EXPENSE	100.00	%	---	---	---	---	---	---	---	25.95	2,595	108.00	10,800	---	---	133.95	13,395



BE Number BE220007
Opportunity No
Owner File No
Project City of Chandler JOC - N. Alma School Road Well Chlorinati
Location Chandler, AZ, USA

Item Analysis Sheet

GE 21	V11 EQUIP MAINTENANCE	100.00	%
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	Service Labor	100	%															
	Outside Service Labor	34	HR	---	---	---	---	---	---	---	100.00	3,400	---	---	---	---	100.00	3,400
	Service Labor	100.00	%	---	---	---	---	---	---	---	34.00	3,400	---	---	---	---	34.00	3,400
	V11 EQUIP MAINTENANCE	100.00	%	---	---	---	---	---	---	---	34.00	3,400	---	---	---	---	34.00	3,400

GE 21	V11 EQUIP MAINTENANCE	100.00
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BE Number BE220007

Opportunity No

Owner File No

Project City of Chandler JOC - N. Alma School Road Well Chlorinati

Location Chandler, AZ, USA

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Mar 25, 2022

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Item Analysis Sheet

A	Bonds / Taxes / Insurance	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor		Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit
US CONTRACT BOND Class B		100	%														
	US CONTRACT BOND Class B	1	LS	---	---	---	---	---	---	---	4,435	---	---	---	---	---	4,435
US CONTRACT BOND Class B		100.00	%	---	---	---	---	---	---	44.35	4,435	---	---	---	---	44.35	4,435
General Liability		100	%														
	Gen Liab-USA 8.50/M	1	LS	---	---	---	---	---	---	---	5,544	---	---	---	---	---	5,544
General Liability		100.00	%	---	---	---	---	---	---	55.44	5,544	---	---	---	---	55.44	5,544
Builders Risk Insurance		100	%														
	Builders Risk	1	LS	---	---	---	---	---	---	---	813	---	---	---	---	---	813
Builders Risk Insurance		100.00	%	---	---	---	---	---	---	8.13	813	---	---	---	---	8.13	813
TAXES		100	%														
	Arizona Gross Receipts Tax	1	LS	---	---	---	---	---	---	---	47,485	---	---	---	---	---	47,485
TAXES		100.00	%	---	---	---	---	---	---	474.85	47,485	---	---	---	---	474.85	47,485
Bonds / Taxes / Insurance		1.00	LS	---	---	---	---	---	---	---	58,277	---	---	---	---	---	58,277



BE Number BE220007
Opportunity No
Owner File No
Project City of Chandler JOC - N. Alma School Road Well Chlorinati
Location Chandler, AZ, USA

Item Analysis Sheet

B	City Allowance	1.00	LS
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Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	\$ / hr	Total	\$ / hr	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	\$/ItemUnit	Total	Unit	Total
	City Allowance	1	LS	---	---	---	---	---	---	---	---	80,000	---	---	---	---	---	80,000
	City Allowance	1.00	LS	---	---	---	---	---	---	---	---	80,000	---	---	---	---	---	80,000

B	City Allowance	1.00
---	----------------	------

List of Subcontractors/Suppliers

[illegible]

INDUSTRIAL SERVICE AND SUPPLY, INC.

SYSTEMS INTEGRATOR

PO BOX 28328

TEMPE, AZ 85285-8328

(888)-253-7122

Email: tgbles@industrialservice.com

SECTION: 11260

TABLET CHLORINATOR

DATE: 03/02/2022

QUOTE: #CH01282022-Edge21592

VALID UNTIL: Submittals must be approved no later than 05/04/2022

After that date any price increases will be added to quoted amount and
Contractor will adjust Purchase order.

PART 1-GENERAL

1.1 DESCRIPTION

A.

1. Exception brochure attached to RFQ references model Axiall 3075MD there is no Model 3750

**B. Exception providing only as Manufacture produces as listed in
Quote#CH01282022-Edge21592**

1. Exception providing only as contained in Quote#CH01282022-Edge21592

a. Included as per Quote.

b. Included.

c. Exception Chlorinator uses a Microprocessor not a PLC.

d. Included.

e. Exception (1) Solution Pump not pumps.

1) Included.

f. Excerpton providing (1) Rotameter & (1) Inline insertion meter

g. Included

h. Exception providing (1) solenoid Valve, (2) Flow control valves, (1) PRV, Gate of diaphragm valves on skid as required.

i. Exception providing High High, High, Low, Low Low Level switches

j. Exception Dehumidifiers were discontinued years back not available.

k. Exception providing Microprocessor Controller for solution injection of (1) pump.

l. (1) day on site Startup, Calibration, & Training. Additional required days at the rate of \$1,500.00 per day.

2. The Tablet Chlorinator System Supplier shall be responsible for the following items.

a. Operator Training on same day as startup, calibration

b. (1) Set of electronic submittals, (1) Set of O&M Manual, No Hard Copies.

c. Interface with Owners SCADA staff if requires a second trip Purchase order will be increased by additional \$1,500.00 if can but be done during startup and training day.

d. providing only as per Axiall Manufactures included in submittal statement of warranty.

3. Contractor responsible additional charges if required for interface between the SCADA Vendor.

1.2 REFERENCES

A. Reference Standards

1. Noted
2. Noted
3. Noted

1.3 QUALITY ASSURANCE

A. QUALIFICATIONS:

1. Noted.

1.4 SUBMITTALS

A. Exception Section 01330 never provide. We are providing (1) set of electronic submittals per our standards.

- a. Included with exception method of construction is proprietary.
- b. Exception we are providing (1) set of electronic submittals per our standard only.
- c. Noted
- d. Exception we are providing (1) set of electronic submittals per our standard only.
- e. Noted

B. Exception: We are providing our standard (1) set of electronic submittals.

A. copy of this scope/ Quote will be included in the submittal package which spells out our exceptions to areas in the specification section. We will not be providing either other arears with these statements. We had requested a copy of the specifications prior to them going out were told there were none, Also never received section 01330. We have clearly taken exception to statement referencing rejection of entire submittal. Project will be requoted if any of our noted exceptions as they a listed in the scope quote are rejected

C. Exception: Providing (1) Submittal Copy on a Thumb drive. No CD Copies , No Hard copies. Providing in our standard format with pdf.

D. Operation and Maintenance Manual:

1. Exception providing (1) Electronic Copy on a thumb drive per our standard.
2. Exception providing (1) Electronic Copy on a thumb drive per our standard.
3. Exception providing (1) Electronic Copy on a thumb drive per our standard.

1.5 SYSTEM DESCRIPTION

A. Exception providing as per Specification brochure we received with section11260. We are supplying a superior alternate to specified Manufacture Hammonds. We are including only what is specifically contained in our Quotation#CH01282022-Edge21592

1. Exception Accu-Tab Calcium hypochlorite Tables
2. As specified.
3. As specified with Exceptions as noted in Section 2.3

4. Exception Filter and PRV ship lose and need to be installed in addition to those noted.

1.6 PERFORMANCE REQUIREMENTS

- A. As specified.
- B. Tablet Chlorinator performance characteristics
 1. Noted
 2. Noted
 3. Noted

1.7 OPERATING PARAMETER RANGES

- A. Tablet Chlorinator Operating parameters
 1. Well Tablet Chlorinator
 - a. Tablet Chlorinator
 1. As specified
 2. Exception 69 Gallons
 3. 220 VAC Single Phase
 - b. Chlorine Solution Injection Pump
 1. Normal Discharge Pressure 70 psi
 2. Discharge pressure 60-80 psi.

1.8 ENVIRONMENTAL CONDITIONS

- A. Water Quality
 1. Noted
 2. Noted
- B. Outdoor Temperature
 1. Noted

1.9 DESIGN CRITERIA

- A. Design Criteria
 1. Range 0.3-2.0 ppm
 2. Exception: Range of dosages not specified in paragraph 1.7

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURES

- A. As specified

2.2 EQUIPMENT AND COMPONENTS SUPPLIED BY CHLORINATOR MANUFACTURE.

- A. General:
 1. As specified
 2. Noted
 3. As specified.
 4. As specified with Exception PRV shall be lead free brass.
 5. As specified with wiring termination exception, providing only as manufactures standard design
 6. As specified.
- B. Calcium Hypochlorite Tablets
 - 1,2,3,&4 Exception: For Axial Warranty to be in effect calcium Hypochlorite tablets shall be Accu-Tab SI as manufactured by Westlake Chemical. Otherwise would not be able to install tablets in machine would have to be done by others prior to startup then no warranty in effect after that.
- C. Tablet Chlorinator
 1. As specified.
 2. As specified.

D. Solution Pumps:

1. As specified.
2. As specified.
3. As specified.
4. As specified.
5. Exception: This depends on who is doing the PID loop control

E. FEEDERS:

1. As specified
2. As specified
3. As specified
4. Exception Specification and Model per included brochure states they shall be Grundfos centrifugal pump. Not supplying diaphragm pumps.
5. Exception model specified chlorine dosage will be control by the output of the microprocessor.
6. As specified.
7. As specified with exception to statement of preferred filling frequencies.
Erroder will require filling whenever it is low or out of tablets.

F. Piping:

1. As specified.
2. As specified installed by Contractor.

G. Frame

1. As specified
2. As specified
3. Legs or SS bolts & nuts ship separate in box with filter & PRV

H. Solution Tank

1. As specified
2. As specified
3. As specified.
4. As specified.

I. Ball Valves

1. Exception these will be provided by Contractor they are not part of the system on external piping.
2. Exception this is Contractors responsibility

J. Inlet Flow Meter:

1. As specified
2. As specified

K. Discharge Flowmeter

1. This is an external Indication manifold. Contractor responsible for installing to Skid manufactures standard design is to wall mount.
2. Exception: manufacture determines the correct flowmeter to install on the Chlorinators based on model being used.

L. Sediment Filter:

1. As specified.
2. As specified and instructions are included in the O&M Manual.

M. Solenoid Valve:

1. Exception: Solenoid is installed within the Confines of the Frame per manufactures standard drawings.
2. Exception: Solenoid is controlled by the microprocessor operating in the batch mode. System operates when the low level switch indicates a batch must be started and closes when the high level switch indicates the batch has been satisfied. Chlorinator goes to sleep but is hot until the cycle repeats itself.

3. Exception: Solenoid is controlled by the microprocessor operating in the batch mode. System operates when the low level switch indicates a batch must be started and closes when the high level switch indicates the batch has been satisfied. Chlorinator goes to sleep but is hot until the cycle repeats itself.

4. 1, a,b, Solenoid is controlled by the microprocessor operating in the batch mode. System operates when the low level switch indicates a batch must be started and closes when the high level switch indicates the batch has been satisfied. Chlorinator goes to sleep but is hot until the cycle repeats itself.

N. Pressure Regulator.

1. As specified
2. Exception reduces to 35psi
3. Exception: Factory standard per this installation is a 1" max psi 150
4. As specified

O. Level Switches

1. As specified.
2. As specified.

P. Check Valve

1. Exception no longer use y-check it will be a Ball Check valve.
2. Exception no longer use a y-check it will be a current use ball Check Valve

Q. Bypass flow meter and Control Valve

1. As specified

R. Power

1. As specified.
2. Exception Internal on the ATC1000 microprocessor is a pump circuit breaker, External on the ATC1000 is a disconnect Switch.

2.3 CONTRPLS

A. Tablet Chlorination System shall be provided with a System Controller.

1. As specified.
2. As specified.

B. Exception ATC1000 is a Microprocessor not a PLC it will provide the following control features.

1. HOA Switch as specified.

- a. As specified.
- b. As specified.
- c. As specified.
- d. Exception: When ATC1000 is in A/M manual Mode and the HOA is in Hand you can through the ATC1000 ramp the VFD up or down.

2. Exception Pump Run light is "Green" indicates pump has been called to service.

3. Exception: Statement requires clarification. Who is doing the control Logic? Is the referenced PLC separate from the Chlorination Skid since the Chlorinator uses a Microprocessor not a PLC.

4. Exception: We are providing only the manufactures standard IO control features.

C. Control Description:

1. General

- a. As specified.
- b. As specified.
- c. Exception: The Model Specified is a batch System. The making of batches is controlled by indication of the High & Low level Switches. The unit will if calling for it make a batch when not injecting chlorine.

- d. Exception : Clarification required here. We are assuming that SCADA's PLC is what will be providing the analog input signal after doing the math for compound loop control. The ATC1000 Microprocessor has internally this Capability though.

2. Injection Sites:

- a. Exception: This needs to be redefined as an enable/ disable signal. The Chlorinator will always be hot unless the Electrical Voltage is tuned off to it.
b. As specified
c. Exception Providing only manufactures standard IO's

PART 3-EXECUTION

3.1 INSTALLATION

- A. By Contractor
B. By Contractor
1. By Contractor
2. By Contractor.

3.2 FIELD QUALITY CONTROL

- A. Providing (1) 8 Hour day for this section. If additional trips are required add \$1,500.00 to purchase order prior to proceeding.
B. Included if covered in (1) single trip for startup, calibration and SCADA interfacing. If not add \$1,500.00 to purchase order.

3.3 START-UP

- A. Tablets by Contractor. Recommend Contacting Hill Bros Chemical for quotation. Suggest just purchase (1) 24 pail pallet of 60# Accu-Tabs SI. This will cover the (8) pails for startup and the remainder for 30 day supply. Note this is an exception to specified 50# Pails.
B. The Tablet Chlorination System manufacture shall provide the service of a qualified representative for start-up.
1. As specified.
2. Noted
3. As specified providing our standard certificate of readiness with its terms and conditions is returned signed prior to startup.
4. Providing only (2) Inlet filters. No other by part spare part item is called out in the specification therefore that's all we are including.

3.4 WARRANTY

- A. Exception providing only manufactures standard warranty as stated in the forthcoming submittal.
B. By Contractor.

Terms: 20% Submittal Pay Forward (Submittals 3-weeks)

75% Equipment ready to ship pay Forward (10-12 Weeks from Approved Submittal)

05% Startup pay Forward.

PRICE: \$26,285.00 PLUS \$495.00 FREIGHT

Must be Corporate Authorized Individuals Signature

Accepted by: _____ DATE: _____

Print Name: _____

Quotation By;

T. G. BLES

T. G. Bles

L & L Asphalt LLC

P.O. Box 73440
Phoenix, AZ 85050

Voice: 623-434-1200

Fax: 623-434-1202

City of Phoenix Certified WBE/DBE/SBE

REVISED**PROPOSAL**

Proposal Number: 4390B
Proposal Date: Mar 22, 2022
Page: 1

Asphalt ROC 215796

To:
PCL Civil Constructors
1711 W. Greentree Dr
Suite 201
Tempe, AZ 85284
Phone 480-829-6333

Job Name and Location:

PCL Construction
Alma School Road Chlorination
Chandler, AZ
ASPHALT ONLY

Customer Phone Number	PO Number	Sales Rep Name
480-829-6333		
Customer Fax Number	Customer Contact	Payment Terms
480-829-8252	Roman Sitarz	Net 30 Days

L & L Asphalt will furnish all labor, equipment, and materials to complete the scope of work as listed below for the unit prices below;

Quantity	Unit	Description	Unit Price	Amount
130.00	SF	Permanent Asphalt Pavement Replacement 4" Thick With 3/4 EVAC PG70-10 Asphalt Mix. (EXCLUDES SURFACE COURSE MILL OR SLURRY SEAL) PRICE INCLUDES MOBILIZATION MATERIAL PRICE GOOD TILL 6/30/22.	29.50	3,835.00

INCLUSIONS:

1. Apply tack coat to edges only.
2. Mobilizations Listed On Quote. Any additional will be charged at Price listed.
3. Payment based on actual field measurements and thicknesses.

EXCLUSIONS: (Items listed are excluded from price unless noted otherwise.)

- | | |
|--|--|
| 1. Bond, Taxes and Permits/ Sales Tax On Material. | 6. Asphalt Milling/Sawcut Of Any Kind. |
| 2. Testing (On or Off-Site). | 7. Utility Adjustments |
| 3. Surveying/Layout/ Staking. | 8. Subgrade Preparation Of Any Kind. |
| 4. Water supply and usage charge. | 9. Stamped or decorative asphalt. |
| 5. Traffic Control/Barricades of any kind. | 10. Premium(Overtime) & Weekend Work. |
| | 11. Prime Coat/Crack Fill/Seal Coat/Slurry Seal. |

SPECIAL PROVISIONS:

1. This proposal is valid until March 31, 2022. If work is scheduled after that time we reserve the right to revise our prices based on the increases.

Subtotal	3,835.00
Sales Tax	
TOTAL PROPOSAL AMOUNT	3,835.00

Rita Lawrence: Rita@llasp.com
Doerfler: JohnDoerfler@yahoo.com

L & L Asphalt, LLC

3/22/22
Date

Accepted By: PCL Civil Constructors

Date





INDUSTRIAL COATING DIVISION
PROTECTIVE COATING & LINING SERVICES

PPS COATINGS

406 E. Pioneer Street
Phoenix, AZ 85040

 602-497-4997

info@ppscoatings.com

WWW.PPSPHX.COM

2-24-22

Alma School Well Chlorination R2

PCL Construction
Quote # PPS21-283

Mike,

PPS Coatings is pleased to offer you the following quote for the above referenced project:

SCOPE OF WORK INCLUDES:

- Labor, material, and equipment to prep and coat the following areas per supplied scope on drawings.
 - 3ea BFP Cages
 - Paint System C
 - 2ea 12" water loop (above grade)
 - Paint System C
 - 2ea Sample Taps
 - Paint System C
 - 1 lot of PVC/CPVC piping @ chlorination canopy
 - Paint System E
 - 1ea Chlorination Canopy
 - Paint System C
 - Includes Decking
 - Assuming Decking is primed from the MFG (NO GALAVANIZED)

Price \$19,025.00

Clarifications:

- All work to be performed according to OSHA and site specific safety regulations
- Quote valid for 30 days from date of proposal
- Pay Terms are Net 30 if not specified in a contract
- PPS to supply coating MFG written submittal/recommendation
- All steel coatings are on top of MFG prep and prime

Excludes:

- Mics Taxes including sales Tax.
- testing or inspection
- Pipe linings
- Buried or encased piping
- Delays in work caused by other trades
- OT/Accelerated schedules
- Bonds and permits
- Hazardous Materials / Lead abatement
- Anything not mentioned above.

Sincerely,

To:	PCL Civil Constructors Inc.	Contact:	Michael T. Cox
Address:	1729 West Greentree Drive, Suite 105 Tempe, AZ 85284 USA	Phone:	480-829-6333
		Fax:	480-829-8252
Project Name:	102 COC JOC Alma School Rd Well Chlorination System Addition	Bid Number:	
Project Location:		Bid Date:	3/1/2022

Item #	Item Description	Estimated Quantity	Unit	Total Price
001	Provide & Install Electrical Package	1.00	LS	\$69,662.00

Total Bid Price: \$69,662.00

Notes:

• **Adder:**

If a chlorine panel digital address + Hauser in-person training required please add: **\$5,341.00**

If Rural is to provide Fall of Potential testing please add: **\$1,800.00**

• **AZ LICENSE #075367 & 074573**

• **Scope of Work :**

- Make safe electrical prior to demo
- Disconnect and remove conduit and conductors, equipment back to source
- Excavate and native backfill electrical and communication ductbank
- Provide & install Grounding per the plans
- Provide & install PVC Sch. 40 conduit for underground runs
- Provide & install GRC conduit for above ground runs
- Provide & install power and control conductors to equipment, devices, panels and fixtures
- Provide & install PVC coated stub ups
- Provide & install the Chlorine Analyzer Panel (CL2-AIT-002)
- Provide & install Panel LP-A
- Provide & install (2) Holophane EVT4 LED Lights
- Electrically connect power and controls to instrumentation
- Provide & install GFI Receptacle and Switch
- Added conduit and wire to flow switch
- Added additional TSP conductor from MCP-CL2 to city PLC
- Startup and testing for analyzer panel

Spec Sections:

- None

Plan Sheets:

- Electrical Plans (dated 4/21/21)

Submittal lead times – 3-6 weeks

Equipment lead times

LP-A panel – 4-6 weeks

Analyzer – 12-14 weeks

Lighting – 3-4 weeks

• **Excludes:**

- Taxes, permits, fees or allowances
- Utility company permits, fees or allowances
- Temporary power or lighting
- The removal of all the underground structures (i.e., conduits, duct banks, concrete boxes, concrete bases, and foundations) is by others
- Sawcutting, removal or patching of asphalt or concrete
- Finished grading
- Engineering, design, surveying, and staking for line and / or grade are excluded. Elevations must be provided where required
- Spoils from trench or excavation work will be placed trench side to be removed or spread by others. All concrete and asphalt removal and disposal by others
- Dumpsters or Haul-off
- Flow switch
- Ductbank concrete or slurry encasement
- Ductbank rebar reinforcement
- Painting, coating or welding
- SRP conductors from SRP MPZ to City PLC
- SRP Raceway from SRP PLC to City PLC (Raceway X & Y)
- Arc flash coordination study
- Acceptance test
- Solenoid valves
- Chlorine tablet chlorinator MCP-CL2
- Explosion proof conduit, fitting, boxes or devices
- Programming or software
- Bonding is NOT included in these bid amounts. If a bond is requested, it will be billed outside the contract value and will become due and payable immediately upon presentation of bond. Our bond rate for this project is 1.20%.
- All bid items for conduit and duct banks include all trenching, backfilling, and compacting, including concrete, sand encasement and lean slurry as required.
- Hard dig is excluded. Upon discovery of hard digging conditions that a standard 420F Caterpillar backhoe is unable to excavate, GC will excavate, remove rock and Rural will complete trench and backfill (Rural will provide credit for normal excavation)
- For Demolition and Salvage our work will be limited to the disconnection and removal of all salvageable electrical materials only (i.e., light fixtures, signs, transformers, wire, etc.). The removal of all the underground structures (i.e., conduits, duct banks, concrete boxes, concrete bases, and foundations) is by others.
- All Division 1 requirements are to be furnished by the Prime Contractor or others. This includes but is not limited to preparation of construction schedules, contractor quality control program, QA and QC testing, temporary construction trailers or facilities, construction lighting and power, maintenance of site access, site dust control, temporary site environmental protection, permits and/ or fees, and builders-risk or all risk insurance policies.
- Where the electrical drawings and electrical specifications conflict with other contract documents, our pricing is based on the electrical drawings.
- Process taps for instruments and plumbing below instrument seal by others. All instrumentation installation includes electrical / startup with mechanical install by others.
- Gaskets, bushings, washers, Spool pieces and misc. hardware for flow meters if required
- Rural Electric is not responsible for unmarked landscaping facilities.
- Prime contractor is to furnish a source for construction water at no cost to the subcontractor.
- Pay when paid clauses will not be accepted.
- Rural Electric, Inc. maintains its own job documentation system. Any additional requirements by the GC to complete job documentation on GC supplied forms will require additional subcontractor administration time and additional cost. This proposal excludes the use of GC supplied documents (i.e. Special GC daily reports, RFIs, certified payrolls, submittal/transmittal forms, etc.).
- This proposal is made with the understanding that we will enter into a mutually acceptable subcontract agreement. We will not accept any terms or conditions that are less favorable to Rural than those imposed in the Prime contract by the Owner. The conditions of this proposal must be attached or incorporated into our subcontract agreements.
- Prices quoted herein are those in effect today, and are predicated on immediate release for manufacture and shipment. These prices are subject to adjustment for changes in the base price of commodity items such as: Copper, Steel, Lead, Aluminum, or Resins), which may occur between the date of quotation and the date(s) shipments are made.
- Our Quote is valid for 30 days
- Rural shall not be liable for any losses, damages or delays due to causes beyond our reasonable control, including without limitations, acts of God, epidemics, extreme weather events, fire, delays by others, or any acts, conduct, or omission from unrelated third-parties outside of our direct control
- Liquidated damages (if applicable) shall be limited to the proportion of our subcontract to the General Contract.
- Retention shall be reduced by 50% upon substantial completion and released once beneficial occupancy or final acceptance has been received.
- If a subcontract payment bond is requested of Rural, then providing monthly lien releases shall not be a condition precedent for payment and all payment will be made to Rural as single party checks.

Payment Terms:

Net payment is expected within 30 days.

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rural Electric, Inc.

Authorized Signature: _____

Estimator: Cameron Claussen
(480) 850-3585 cameronc@ruralelectric.com



6829 W. Frye Rd.
Chandler, AZ 85226
P : 480-921-0498
F : 480-921-7391
E : sales@instandcontrols.com

Quote

#33595

Quoted: 3/1/2022
Expiration: 6/30/2022

Bill To
Rural Electric, Inc
9502 East Main Street
Mesa AZ 85207

Ship To
RURAL ELECTRIC INC
9502 E MAIN ST
MESA AZ 85207

Project		Memo	
City of Chandler WA 2007.401		City of Chandler WA 2007.401	
FOB	Shipping Method	Shipping Terms	Collect Account Number
Shipping Point	Best Way	Pre-Pay and Add	
Terms	Customer Contact	Sales Rep	Quoted By
Net 30	Cameron Claussen cameronc@ruralelectric.com	Ryan Christie ryan@instandcontrols.com	Debra Coye deb@instandcontrols.com

Item	Manufacturer	Est. Lead Time	Qty	Unit Price	Extended
Chlorine Panel- CM444/CCS51D-City of Chandler-WA 2007.401	Endress + Hauser	Est. lead time is 12-14 weeks plus shipping	1		



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Expiration: 6/30/2022

Item	Manufacturer	Est. Lead Time	Qty	Unit Price	Extended
Trace Chlorine Panel-Digital-Endress + Hauser Consisting of:					
(1) CM444-1AM51/0					
Transmitter liquid analysis pH/ORP, conductivity, turbidity oxygen(DO), chlorine, SAC, nitrate ammonia. Digital sensors; Memosens protocol, :: Use of precalibrated sensors :: Modular concept					
(1) CCS51D-1550/0 AA Approval: Non-hazardous area 11 Application: Process water, drinking water AD Measuring Range: 5 mg/l NA >>Accessory Mounted: Adapter, CYA27					
(1) CPS11E-1014/0 pH comb. electrode Memosens functionality Diaphragm: PTFE Signal transmission: Digital. Reference system: Gel. Application: Standard process. Conductivity: min 50uS/cm Temperature sensor integrated (2) CYK10-A891 Meas. cable CYK10 Memosens Application: digital sensors with inductive Memosens plug-in head Working limit: max. -20...135oC 3 FT cable, Wire terminals (1) CYA27-2U71/0 Flow assembly					
Mounted on a 30" x 30" poly subpanel Panel includes 3/8" npt fittings, regulator, gauge, inlet ball valve, sample port on CYA27 and outlet ball valve. Does not include anything outside the scope of the panel.					
Notes and Exceptions: 1. CM444 transmitter is quoted. This is the latest transmitter, with 4-20 mA Hart and relays. 2. CCA250 is being phased out and replaced CYA27 Flow Cell, modular design. This flow cell has a build in sample port. 3. Endress + Hauser 71257946 is quoted for chlorine calibration. E + H does not sell DPD calibration kits. 4. The CCS141 Sensor is no longer available. This is replaced with the CCS51D sensor. The CCS51D sensor includes a spare maintenance kit. The pH sensor should be replaced 1X per year, routine maintenance. The pH sensor should be replaced with a fresh sensor, not shelf stored. Normal lead time is 3 working days. The CL2 sensor is pH compensated, and requires the pH sensor. 5. Changed to 30" x 30" poly sub panel, 03/01/2022.					
CM444-1AM51/0...			1		
Endress + Hauser p/n CM444-1AM51/0...					
CM444-AAM21A1FK11BAA+AAEH					
AA Approval: Non-hazardous area M2 Sensor Input: 2x digital sensor 1 Digital Communication: HART A1 Analogue Output: 2x 0/4...20mA FK Additional Features: 4x relay, 2x digital input, 2x digital output 1 Power Supply: 100...230VAC (50/60Hz) 1 Cable Entry Housing: NPT BA Female Jack Fieldbus Communication: W/o A Cable Entry Set: Enclosed AA >Presetting Operation Language: English EH >>Software: Heartbeat Verification+Monitoring					
CCS51D-1550/0...			1		



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Expiration: 6/30/2022

Item	Manufacturer	Est. Lead Time	Qty	Unit Price	Extended
Endress + Hauser p/n CCS51D-1550/0...					
CCS51D-AA11AD+NA					
AA Approval: Non-hazardous area 11 Application: Process water, drinking water AD Measuring Range: 5 mg/l NA >>Accessory Mounted: Adapter, CYA27					
CPS11E-1014/0...			1		
Endress + Hauser p/n CPS11E-1014/0					
AA Approval: Non-hazardous area 7 Electrode Type: Basic version, zero point pH 7.0, temperature sensor NTC 30k A Application Range: 1-12 pH, -15...80oC, 0,8...17 bar (abs) AA Reference System: Teflon ring junction, 3 M KCl, Ag/AgCl 2 Shaft Length: 120mm					
CYK10-A891...3 FT			2		
Endress + Hauser-Meas. cable CYK10 Memosens p/n CYK10-A891					
Meas. cable CYK10 Memosens (1x) CYK10-A891					
010: Approval: A: Non-hazardous area 020: Cable Length: 89: ft length 020FT: 3.00: ft length 030: Cable Connection: 1: Wire terminals					
CYA27-2U71/0...			1		
Endress + Hauser p/n CYA27-2U71/0					
CYA27-AA1A12A10AAAAAAAAAAAAA1+NCNDPARAR1R2					
AA Approval: Non-hazardous area 1 Material Module/seals: PMMA/FKM A Material Additional Parts/seals: PVC/FKM 12 Process Connection: G1/4 A Flow Range: >30 l/h (standard flow setting) 10 Module Configuration: Disinfection+pH+flow indication AA Module 1: W/o AA Module 2: W/o AA Module 3: W/o AA Module 4: W/o AA Module 5: W/o AA Module 6: W/o A1 Device Model: 1 NC >>Accessory Mounted: Sampling valve ND >>Accessory Mounted: Flow switch PA >>Accessory Enclosed: Wall mounting kit RA >>Accessory Enclosed: 1x cable M12, 10m R1 >>Accessory Enclosed: Tool kit R2 >>Accessory Enclosed: Cleaning brush set					
Components For			1		
Panel 3/8" with CYA27					
Components For Panel 3/8" with CYA27 (1) Regulator, (1) 1/4" X 1/8" Reducing Nipple, (5) Tubing, (2) Ball Valves, (3) Male Connectors 3/8T x 1/2" MPT, (1) Male Elbow 3/8T x 1/8" MPT, (1) Female Elbow 3/8"T x 1/8" FPT, (1) Nipple 1.5", (1) Gauge 0-30 PSI, (2) Male Elbows 3/8"T x 1/2" MPT, (1) Union Tee 3/8", (3) Tubing Clamps, (3) Clamp Base, (1) Cable Tray, (1) Panel, Budgetary, full breakdown of components required TBD.					

All sales order related transactions with Instrumentation and Controls, LLC shall be governed by Instrumentation and Controls, LLC's Standard Sales Terms and Conditions (IAC Terms) which are subject to modification. Please visit <http://instandcontrols.com/terms> for the most up to date IAC Terms. Any contracts or agreements which are currently in place shall apply and will not be replaced by the IAC Terms.



6829 W. Frye Rd.
Chandler, AZ 85226
P : 480-921-0498
F : 480-921-7391
E : sales@instandcontrols.com

Quote

#33595

Quoted: 3/1/2022
Expiration: 6/30/2022

Item	Manufacturer	Est. Lead Time	Qty	Unit Price	Extended
71257946	Endress + Hauser		1		
Endress + Hauser p/n 71257946 Photometer M+N PF-3, desinf. (chlorine)					
CPY20-C02A1	Endress + Hauser		1		
Endress + Hauser p/n CPY20-C02A1 Technical Buffer Solution pH value: - C - pH 4,00 Quantity: - 02 - 250 ml Certificate: - A - Calibration certificate buffer solution Version: - 1 - Basic version					
CPY20-E02A1	Endress + Hauser		1		
Endress + Hauser Technical buffer solution CPY20 Model No: CPY20-E02A1 E pH value: pH 7,00 02 Quantity: 250 ml A Certificate: Calibration certificate buffer solution 1 Version: Basic version					
XD21BL-AAA44J	Endress + Hauser		1		
Endress + Hauser- Factory Start Up ** Time-based Commissioning Service ** ** Extended Factory Warranty ** Model No: XD21BL-AAA44J To ensure optimal device performance right from the start trained service technicians ensure optimum set-up and perform initial checks. All results are documented in final service reports. A- Preparation and standard travel time: included in the base price A- Standard labor time: 1 x 4h A- Surcharges: not selected 4- Extended Factory Warranty: 2 instrument/s, 2 additional years after shipment date (3 years in total), in workshop 4- Commissioning Level: 1 x Basic: Device Inspection, configuration, provision of parameter files + explanation of operations and maintenance. J- Additional travel expenses: ??? Round-trip mileage (travel hours included)					
XD56CT-6M10/0...	Endress + Hauser		1		



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#33595

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Expiration: 6/30/2022

Item	Manufacturer	Est. Lead Time	Qty	Unit Price	Extended
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Subtotal

Total Tax

**Shipping Cost
(Best Way)**

Total

A 4% fee will be charged for Credit Card Orders



Powering Business Worldwide



BORDER STATES
Supply Chain Solutions™

5519 East Washington Street • Phoenix, Arizona 85034 • (602) 244-0331 • Fax (602) 273-7420

PROPOSAL

To:	Estimating Dept.	Date:	1/7/2022
Attn:			
Project:	Chandler N Alma School Well Chlorination System	Quote #:	DS 21-103
Pages: 1 of 2	Eaton Gear Package	Quoted by:	David Stevens

ITEM	QNTY.	REMARKS	UNIT	COST
	1	Lot of Eaton Cutler Hammer gear per the attached BOM	Lot	
Total Sell Price:				

Quoted price expires 2/6/2022

Notes:

1. No specifications provided, quoting Eaton switchgear subject to approval.
2. No studies or field-testing included in this bill of material unless noted otherwise.
3. Quoting standard aluminum bussing on all gear, unless otherwise noted.
4. No fuses included.
5. Freight is prepaid and allowed on standard shipments.
6. Tax, if applicable, is not included in this quote.
7. We acknowledge receipt of 0 addenda's on this project.
8. All items quoted are based on our interpretation of the specifications and/or submitted drawings, any changes or clarifications to this bill of material and proposal, we reserve the right to amend both our bill of material and our proposal accordingly.
9. It is the sole responsibility of the customer to verify the listed material, to ensure the configuration, material type, and quantity meets and exceeds the intended use.

Terms:

1. Net 25 days.
2. Quoted prices are firm for 30 days from above date.

Lead-Times:

Actual lead-times to be determined upon receipt of order.

SEE ADDITIONAL NOTES & COMMENTS ON ATTACHED B.O.M.

Detail Bill of Material

Project Name:	Chandler N Alma School Well Chlorination System	Negotiation No:	B0N10107X2K2
General Order No:		Alternate No:	0000

Item No.	Qty	Product	Description
	1	Panelboards	18 Circuits, 100A, Fully Rated, 120/240V 1Ph 3W, Copper Bus, 10kAIC, 60A, 2P BAB Main Breaker[Top Fed], Surface Mounted

Catalog No P21C100BT26CH3R
Designation LP-A

Qty	List of Materials
1	60A, 2P BAB Main Breaker
1	Padlockable Lockoff Device
13	1P Branch Provision Only
1	40A, 2P BAB Branch Breaker
3	15A, 1P BAB Branch Breaker
1	Copper Main Bus, 100 Amps
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2036

Total Quote Price

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.



5519 East Washington Street • Phoenix, Arizona 85034 • (602) 244-0331 • Fax (602) 273-7420

PROPOSAL

To:	Estimating Dept.	Date:	1/7/2022
Attention:			
Project:	Chandler N Alma School Well Chlorination System	Quoted by:	David Stevens
Page: 1 of 2	Lighting Package:	Quote #	DS 21-103

ITEM	QNTY.	DESCRIPTION	UNIT	COST
Spec Package	1	Lot of lighting, per the following bill of material from <u>RCL</u> for the Specified Lighting Package.	Lot	

Lighting Package Notes:

The lighting is quoted as specified or has prior approval. The cost of the required lamps is included in the above lot price. No spares or extra material is included in this package. We are quoting standard factory finishes on all types listed, unless otherwise stated. Freight is pre-paid & allowed unless noted otherwise.

All Items quoted are based on our interpretation of the specifications and/or submitted drawings, any changes or clarifications to this bill of material and proposal, we reserve the right to amend both our bill of material and our proposal accordingly.

It is the sole responsibility of the customer to verify the listed material, to ensure the configuration, material type, and quantity meets and exceeds the intended use.

Terms: **Net 25 days**

Quoted prices are firm for 30 days from above date. Taxes, if applicable, are not included.

Date: Jan 7, 2022

Quote: RCL21-124919-1

Quote
Page 1/1



R.C. Lurie Co.
1122 North 7th Street
Phoenix AZ 85006
Phone: (602) 258-2400
Fax:
From: Jordan Gunzenhauser
Quoter Ph:
Email: jgunzenhauser@rclurie.com

Project CITY OF CHANDLER - NORTH ALMA
SCHOOL WELL - CHLORINATION
SYSTEM ADDITION
Location CHANDLER AZ
Quote RCL21-124919-1

To: David Stevens
Border States Electric
5519 E. Washington Street
Phoenix AZ 85034
Phone: (602) 244-0331
Fax: (602) 230-8535
Email: dstevens@borderstates.com

For Rural Electric
Bid Date Jan 7, 2022
Expires Feb 6, 2022

QTY	Type	MFG	Part
-----	------	-----	------

			AS SPECIFIED
2	B	LITH-HOL	EVT4 6000LM FST MD MVOLT GZ10 40K 80CRI
2	B	LITH-FLO	VAPCMB
2	B	LITH-FLO	HC36
1	FREIGHT	FREIGHT	ESTIMATED FREIGHT
		Total for:	AS SPECIFIED

Total:

Terms and conditions of sale:

EMAIL QUOTE REQUESTS TO: RCLQUOTES@RCLURIE.COM

Prices firm for 30 days.
Manufacturer's Standard Freight Terms and Conditions for Sale Apply.
Any deviation voids this quote.

Lamps included for types quoted only, unless otherwise noted.
Quote is for types and quantities listed only.
All types are quoted with standard finish unless specified otherwise.
No spares or extras included unless otherwise noted.
Verify all voltages and finishes--custom finishes will req re-quote.
Lighting Control System Start-Up Requires 3-Week Prior Notice
Standard Manufacturer Warranty applies unless otherwise noted.

Sales Tax - It is the responsibility of the electrical contractor to determine if the materials included in this proposal are subject to Arizona sales tax.

ELECTRIC POWER SYSTEMS

TESTING & ENGINEERING SERVICES

RURAL ELECTRIC

N Alma School Chlorination System

PHX-JA-Q22055

3/2/22



Setting The
Standard of Excellence
In the Power Industry

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Date: Mar 2, 2022

Cameron Claussen
RURAL ELECTRIC

Phone: 6027576202

9502 E MAIN ST
MESA, AZ 85207

Email: cameronc@ruralelectric.com

Reference: EPS Quote #PHX-JA-Q22055

Attn: Cameron Claussen

Thank you for your interest in Electric Power Systems International Inc. ("EPS"). We are pleased to offer our professional services on N Alma School Chlorination System. EPS will provide the necessary field service engineers, technicians, tools, and test equipment to complete the outlined proposal and definition of project scope of work.

EPS is setting the standard of excellence in the power industry by using our unsurpassed experience, safety record, state-of-the-art training programs and professional credentials. As a full member of the International Electrical Testing Association (NETA), a recognized leader and ANSI standards developer for the electrical testing industry, you are assured that all testing is performed objectively according to NETA / ANSI standards.

EPS offers complete solutions for electrical system reliability and safety including commissioning and startup services, acceptance and maintenance testing, transformer services, engineering studies, and electrical and safety training. By selecting EPS, you will quickly understand how we are your single source solution for all your electrical reliability needs. EPS has 30+ offices located in North America and experienced professionals when and where you need them, to meet your project schedule. For more information, visit our website at www.epsii.com

Thank you for giving Electric Power Systems International Inc. the opportunity to provide service for your electrical requirements and for your cooperation and continued support. Please feel free to contact me at 480.284.2916 to schedule this work or if you have any questions.

Respectfully Submitted,

Jeff Adkins
Sales Manager

480.284.2916 Office
j.adkins@epsii.com
www.epsii.com



Project:

Electric Power Systems International Inc. (EPS) is pleased to offer professional services on N Alma School Chlorination System. This project is in Chandler, Arizona. Testing will be in accordance with Acceptance Testing Specifications as stated below.

This service proposal is designed using industry standards to provide economic and safety-related benefits. This program will also establish a base-line record or trending data to be utilized as an ongoing maintenance program to enhance the system reliability through future preventive maintenance.

Equipment to Be Tested Per the Following One-Line(s)/Drawings:

(1) Fall of Potential

Project Schedule:

1. Project will be performed based on customer's mutual agreed upon schedule.
2. The duration of this project is estimated to take minimum of 1 Day(s).
3. EPS has estimated 1 mobilization(s) to complete this project. Any additional mobilizations, not at the fault of EPS, will be charged as an extra.

Pricing:

Total price for Inspection & Testing of electrical equipment listed above for this project is as follows:

Price For N Alma School Chlorination System Listed Above Only:.....\$

** Assuming work is performed during 10-hour days, M-F.*

**Pricing includes travel expenses, per diem, etc.*

Electric Power System Responsibilities:

1. Provide all necessary field service engineers, technicians, tools, and test equipment to complete the testing of the equipment as defined by the projects scope of work.
2. Provide all required documentation for the applicable field tests as defined by the projects scope of work.
3. Perform the following safety tasks:
 - a) Perform a daily onsite Job Hazard Analysis (JHA) prior to commencing any site activities.
 - b) Coordinate with the customer to perform Lock-Out/Tag-Out (LOTO) activities as required by the projects scope of work.
 - c) Perform equipment inspections as required by the project scopes of work.
 - d) Report any items that are believed to have a potential for an unsafe work condition.
4. Provide a full report to include the scope of work, test dates, test data, and any discrepancies discovered with recommendations. Report will be completed in about 1 week(s) after the project completion.

Customer Responsibilities (but not limited to):

1. Supply adequate power for test equipment as required by the projects scope of work.
2. Supply all lifting devices if required by project scope of work.
3. Coordinate, supply and ensure all scheduled equipment in a priority list defining sequential order by the project scope of work to be tested available upon arrival of EPS Personnel.

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4. Allow and ensure free, clear, and uninterrupted access to all equipment being tested and in the projects scope of work.
5. Client to provide an on-site employee who is qualified and familiar with the electrical system, and any jobsite regulations.
6. Client to remove and reinstall all circuit breakers listed above in the scope of work for testing.
7. Client to remove and reinstall all panel coverings for IR scanning by EPS
8. Provide up to date documents as required, such as protective device settings, any necessary electrical drawings, or manufacturer's instruction manuals.
 - a) If drawings and settings are not available, EPS Engineering Services can update one-line drawings and perform a coordination study for an additional fee (if applicable).
9. Arrange and pay for any utility outages that may be required to de-energize equipment to be tested.
10. Customer shall perform all switching required to de-energize the equipment to be tested.
 - a) If EPS is required to perform switching, customer must submit a signed Switching Agreement relieving EPS of any and all liability associated with such switching activity.
11. Provide allotted time per project scope of work to allow EPS lead personnel to walk the project site and finalize project logistics and schedule (if required).
12. Cable terminations need to be made accessible and possibly de-terminated for specific tests.
13. If a request for quote (RFQ) does not include one-line drawings, schematics, three lines, a schedule of work, or specifications, pricing may be affected by additions to the scope not initially accounted for.
14. EPS will require all equipment to be installed, set on pads, and grounded before testing.
15. Client to provide a safe location for test equipment to be left on-site for the duration of the project.
16. Cover the costs of illness/disease testing and or PPE fitment if applicable.

Terms of Payment

An invoice in the amount of the above firm price, plus billing for any additional work or standby time outside of EPS control will be issued upon completion. Or progress billing could apply for the defined scope of work based on the length of the project. Payments are due and payable Net 30 days from the date of each invoice.

The issuing of a purchase order to EPS along with credit approval, will be sufficient to form an agreement to the terms and conditions referenced in this proposal.

General Clarifications and Assumptions:

1. Price assumes work to be performed Monday thru Friday, 10-hour days (excluding holidays).
2. EPS shall be notified, a minimum of ten working days prior to being required to mobilize.
3. This quote is only valid for 30 days from the date of the proposal.
4. If this is a Public Works or Federal/State/Local funded project and subject to Prevailing Wages this proposal can and will change based on the current Public Works wage determinations based on the location of the said project involved. Any failures and or/omittance as to the knowledge of a public works project shall allow EPS to remedy any monetary/contractual/legal requirements of said project subject to Prevailing wage to take place and you the "CLIENT" agrees to pay the additional costs associated with the public works project. EPS follows all Federal/State/Local requirements on any level and will comply as such in doing it so it is the "CLIENTS" responsibility to fully disclose all the

requirements of their obligations as well when entering into any Federal/State/Local funded projects.

5. This price does not include any time associated to safety meetings, training, commissioning meetings or gaining security access.
6. EPS Terms and Conditions of Sales and Services are hereby incorporated into this proposal.
7. The price above assumes accuracy of the electrical system data supplied to EPS (e.g., single-line diagram, equipment list or another source). Any unplanned time necessitated by inaccuracies of this information due to restricted site access, deficiencies discovered or safety guidelines (e.g., safety equipment, procedures) may result in a work stoppage, and be additionally billed on a time and material basis in accordance with our current published rates for applicable class of service.
8. Payment subject to any withholding or offset for disputed amounts, shall not delay payment of the original contract, which shall be paid Net 30 days from receipt of properly submitted and documented invoice.
9. EPS will require a purchase order, letter of commitment or written notice to proceed prior to the start of this project.
10. EPS reserves the right to bill for any project delays (especially if EPS is forced to remain on-site until testing is ready to be performed & updated settings/drawings provided) caused by pre-start delays and/or on-going project delays/deficiencies. This proposal is based on a set number of mobilizations/demobilizations as stated per the items listed above and if additional site visits are required for any reason before or after the agreed upon project completion deadline; additional T&M charges will be incurred per EPS' discounted rate sheet. The following will be billed in accordance with EPS' rate sheet:
 - a) Retest or repair of any faulty equipment.
 - b) Significant on-site project delays including but not limited to acquiring accurate relay settings or drawings, equipment deliveries, installation, weather delays, equipment problems or stand-by time.
 - c) Testing scope of work deficiencies or troubleshooting.
 - d) Optional work or expenses in addition to or outside of the scope of work, as indicated in this proposal.
11. Price assumes 1 day for equipment testing with 1 mobilization(s). Any additional mobilizations, or additional trips requested by the customer will incur additional mobilization charges.
12. Any additional materials furnished by EPS outside of the described scope of work will require prior approval by the customer before ordering and are subject to cost plus, taxes, and freight charges.
13. Any equipment rented, such as man-lifts, generators, load banks, etc., will be subject to an upcharge plus delivery or shipping.
14. This price is for testing each item listed in the scope of work once. Any retesting of defective equipment or replaced equipment will be considered out of scope work, and will require a change order.
15. No equipment will be energized prior to testing, EPS must be notified by the client prior to energizing any switchgear.
16. All tested equipment will have a calibration sticker applied with the calibration date document (if applicable).

ELECTRIC POWER SYSTEMS INTERNATIONAL, INC. TERMS AND CONDITIONS OF SALES AND SERVICE

1. Terms and Conditions of Sale

a. ELECTRIC POWER SYSTEMS INTERNATIONAL, INC. (the "Company") pursuant to the other documents (the "Purchase Order") attached hereto and incorporated herein has agreed to provide the services set forth in the Purchase Order to RURAL ELECTRIC (the "Purchaser").

b. The Terms and Conditions contained herein shall not be modified by oral, parol, or other extrinsic evidence, but may only be modified or supplemented by a written document duly executed and accepted by Company. The Terms and Conditions contained herein supersede any prior or contemporaneous agreements or correspondence between the parties. In the event of any conflict between the Terms and Conditions set forth herein and the Purchase Order, then in that event, the Purchase Order shall control.

2. Terms of Payment

a. Unless stated otherwise in Company's Purchase Order, the full invoice amount is due and payable within thirty (30) days of invoice date.

b. All invoices submitted by the Company to Purchaser shall be paid as set forth above. In the event invoices are not paid in accordance with such terms of payment, interest shall be charged on each invoice at one and one half (1-1/2%) percent per month on the unpaid balance (or at the maximum legal rate permitted), computed from the date payment is due (as set forth in 2.a. above) until the date paid.

c. In the event that the Company incurs legal expense(s) in enforcing its rights to receive timely payment of all invoices, Purchaser agrees to pay all reasonable attorney's fees, court costs, and other expenses incurred by the Company.

d. Any check or remittance received from or for the account of the Purchaser may be accepted and applied by Company against any indebtedness or obligation owing by Purchaser as shown by the books and records of Company without prejudice to or the discharge of the remainder of any such indebtedness or obligation regardless of any condition, statement, or notation appearing on, referring to or accompanying such check or remittance.

3. Payment

a. If, in the opinion of the Company, financial condition of the Purchaser at the time the parts or equipment is ready for shipment or services are ready for performance is such that the Company does not believe the Purchaser will make timely payment, the Purchaser may be requested before shipment or before performance of services, to arrange terms of payment reasonably satisfactory to the Company.

b. In the event of the insolvency, bankruptcy or default of the Purchaser, the Company shall be entitled to cancel any outstanding Purchase Order(s), to receive reimbursement for its reasonable and proper cancellation charges, and to retain possession of parts or equipment repaired or serviced under the Purchase Order until the charges are paid. If the charges are not paid within ninety (90) days of completion of the work and invoicing the Purchaser, Company, at its option, shall be entitled to sell the parts or equipment at a public or private sale upon the giving of written notice to the Purchaser at least five (5) days prior to such sale.

4. Quotations

a. Unless otherwise stated, Quotations are void unless accepted within ninety (90) days from the date thereof. During said period and prior to acceptance, all Quotations are subject to change upon notice. All Orders made thereon are not binding until and unless accepted in writing by the Company. Shipping dates are approximate and are based upon prompt in writing receipt of all necessary information and with approved drawings whenever required. Stenographic and clerical errors are subject to correction.

5. Price Policy

Prices are subject to change without notice. Applicable price adjustment clause(s) will be stated at the time of quotation and will be included as part of the quotation.

6. Delivery - Risk of Loss

All transportation costs shall be for the account of the Purchaser and shall be added to the invoice. The parts or equipment sent to the Company for repair shall be delivered by Purchaser F.O.B. the Company's Service Center. Repaired parts or equipment and other parts or equipment furnished by the Company shall be delivered to the Purchaser F.O.B. the Company's Service Center. Risk of loss or damage to any parts or equipment furnished by the Company under the contract shall pass to the Purchaser F.O.B. the Company's Service Center. Title to any parts or equipment finished by the Company under the contract shall pass to Purchaser upon payment in full. Risk of loss or damage to the Purchaser's parts or equipment shall be with the Purchaser at all times.

7. Shipping Dates

Shipping and/or completion dates are approximate and are based on prompt receipt of all necessary information and approvals from the Purchaser. Unless the Purchaser stipulates on its Purchase Order that an earlier shipment is not permissible, the Company reserves the right to ship prior to the contract shipping date.

8. Force Majeure

a. The Company shall not be liable for failure to perform or for delay in performance due to fire, flood, strike labor issue(s), act of God, act of any governmental authority or of the Purchaser, embargo, fuel or energy shortage, car shortage, faulty castings or forgings, wrecks or delay in transportation, inability to obtain necessary labor, materials or manufacturing facilities from usual sources, unanticipated, hidden or concealed site conditions, or due to any cause beyond its reasonable control.

b. In the event of delay in performance due to any such cause, the date of delivery or time for completion will be extended by a period of time reasonably necessary to overcome the effect of such delay. The Company reserves the right to amend the purchase price as a result of increased costs from such delay.

9. Penalty Clauses

Under no circumstances shall the Company be liable or responsible for any penalty or liquidated damages of any kind, written or implied, nor shall Company be liable for any liabilities arising directly or indirectly out of such clauses, unless such penalty or liquidated

damage provision has been accepted and approved by Company in writing by a duly authorized designated officer of the Company.

10. Warranty

a. The Company expressly warrants, subject to the terms, conditions, and limitations contained herein that: (a) any replacement or other parts furnished by it, or any work done by it on the Purchaser's equipment shall be free of defects in workmanship and materials, (b) any specialized tools, equipment and instruments for the use of which a charge is made to the Purchaser shall be adequate for the work to be performed, and (c) the services performed by it will be competent.

b. The Company shall, upon prompt written notice from the Purchaser, correct any failure to conform to any of the applicable foregoing warranties which is first manifested within a period of one (1) year after completion of the work, or shipment of the part. Such correction may, in the case of item (a) above, and at the election of the Company, be limited to the repair or replacement F.O.B. the Company's Service Center, of the defective part or parts furnished by it. In the case of any other breach of the foregoing warranty, the Company shall furnish its services or specialized tools, equipment and instruments, to the same extent as provided on the original work. It is understood and agreed that, unless otherwise agreed to in writing by the Company, the Company assumes no responsibility with respect to the suitability of the Purchaser's equipment or with respect to any latent defects in the same. In no event shall the Company be responsible for providing working access to the defect (which working access shall be the sole responsibility of the Purchaser), including the removal, disassembly, replacement or reinstallation of any equipment, materials or structures to the extent necessary to permit the Company to perform its warranty obligations, or transportation costs to and from the Company factory or repair facility, or for damage to equipment components or parts, resulting in whole or in part from improper maintenance or operation, or from their deteriorated condition. The condition of any tests shall be mutually agreed upon and the Company shall be notified of, and may be present at all tests that may be made.

c. The above warranty term does not apply to products which have a useful life, under normal use, inherently shorter than the one (1) year period indicated above in which instance the warranty shall extend only to that period of its useful life. The Company's sole responsibility with respect to products manufactured by the supplier is to extend to Purchaser the same warranty it receives from the supplier.

d. The Company warrants that any engineering studies performed by it will conform to good professional standards then existing at the time of performance. Any portion of the study which does not so conform shall be corrected by the Company upon notification in writing by the Purchaser within six (6) months after completion of the study.

e. All warranty work shall be performed on a single shift straight time basis, Monday through Friday. In the event that the product requires correction of warranty items on an overtime schedule, the premium portion of such overtime shall be for the Purchaser's account.

f. These warranties shall not apply to any work which (i) has been improperly repaired or altered (other than by Company); (ii) has been subjected to misuse, negligence or accident; (iii) has been installed, commissioned and used in a manner contrary to Company's instructions; (iv) is comprised of materials provided or design stipulated by Purchaser; (v) is used equipment; (vi) has been damaged by or subjected to abrasion, corrosion, or chemicals and gasses due to the physical environment or other conditions exceeding those specified, including without limitation temperature or dirt.

g. EXCEPT AS EXPRESSLY SET FORTH HEREIN, COMPANY MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH THIS PURCHASE ORDER AND THE TRANSACTIONS CONTEMPLATED HEREBY. THE FOREGOING EXPRESS WARRANTIES ARE THE SOLE AND EXCLUSIVE WARRANTIES, AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES AND MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE AND ALL WARRANTIES ARISING FROM ANY COURSE OF DEALING OR USAGE OR TRADE ARE EXPRESSLY DISCLAIMED HEREIN, WITH THE EXCEPTION SOLELY OF THE WARRANTY OF TITLE AND WARRANTY AGAINST PATENT INFRINGEMENT.

11. Limitation of Liability

a. THE COMPANY AND ITS CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, AND OTHER AGENTS SHALL, UNDER NO CIRCUMSTANCES OR EVENT, BELIEABLE TO PURCHASER IN EITHER CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, FOR ANY INDIRECT, SPECIAL,

INCIDENTAL, EXEMPLARY, PUNITIVE, OR CONSEQUENTIAL DAMAGES OR FOR LOSS OF PROFITS OR REVENUE, OR LOSS OF USE OF EQUIPMENT OR POWER SYSTEM ARISING DIRECTLY OR INDIRECTLY OUT OF THE WORK OR SERVICES PERFORMED BY THE COMPANY OR THE PARTS AND EQUIPMENT UTILIZED OR PROVIDED HEREIN. THE LIMITATION OF LIABILITY SET FORTH HEREIN SHALL ALSO APPLY TO ALL CLAIMS OF CUSTOMERS OF PURCHASER AND ANY DAMAGES SUSTAINED BY SUCH CUSTOMERS.

b. THE LIMITATION OF LIABILITY CONTAINED IN SUBPARAGRAPH a. ABOVE, BY WAY OF ILLUSTRATION, AND NOT BY WAY OF LIMITATION SHALL PERTAIN TO ANY AND ALL LIABILITY ARISING DIRECTLY OR INDIRECTLY OUT OF THE PERFORMANCE OR BREACH THEREOF OF ANY PURCHASE ORDER BY THE COMPANY, AND FROM ANY LIABILITY ASSOCIATED WITH THE MANUFACTURE, SALE, DELIVERY, INSTALLATION, SUPERVISION, DIRECTION, MAINTENANCE, REPAIR, OR USE OF ANY EQUIPMENT COVERED OR FURNISHED UNDER THE PURCHASE ORDER WHETHER SUCH DAMAGES ARISE IN contract, warranty, in tort (including negligence or otherwise).

c. THE TOTAL AMOUNT OF ANY AND ALL CUMULATIVE RECOVERY AGAINST THE COMPANY AND ITS CONTRACTORS, SUPPLIERS,

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SUBCONTRACTORS, AND OTHER AGENTS SHALL NOT UNDER ANY CIRCUMSTANCES WHATSOEVER EXCEED THE LESSER OF THE AMOUNT OF THE PURCHASE ORDER, INCLUDING ANY AND ALL CHANGES THERETO, OR THE AMOUNT OF TWO HUNDRED FIFTY THOUSAND DOLLARS (\$250,000).

12. Insurance

During the performance of the Work, the Company shall obtain and maintain the following insurance:

- Workman's Compensation Insurance and Employer's Liability Insurance as required by law;
- Comprehensive General Liability Insurance with a limit of \$1,000,000 each occurrence/aggregate for bodily injuries and with a limit of \$1,000,000 each accident/aggregate for property damage.
- Automobile Liability Insurance with a combined limit of \$1,000,000 bodily injury and property damage.

If Purchaser so requests, the Company shall furnish Purchaser with certificates evidencing the foregoing coverage.

13. Nuclear Insurance – Indemnity

With respect to nuclear projects, the Purchaser or the owner of the facility shall have complete and proper insurance protection against liability and property damage which may result from a nuclear incident, and shall agree to indemnify the Company, its suppliers, employees, contractors, and subcontractors of and from any and all claims, actions, causes of actions, or lawsuits resulting from a nuclear incident.

14. Returns

No equipment, product, parts, or supplies may be returned without first securing the prior written approval and terms for return from the Company. The return of all of the aforesaid items shall not be permitted without a properly executed returned goods authority form accepted by the Company. All of such items returned which do not provide instructions strictly in accordance with the Company's authority or without charges prepaid will not be accepted. The Company reserves the right to refuse any of such items for credit. All materials returned and accepted will be subject to a minimum twenty percent (20%) restocking charge.

15. Termination

After acceptance by the Company, a Purchase Order shall not be terminated, in whole or in part, by the Purchaser except by agreement in writing from the Company and any such agreement will be contingent upon payment of reasonable charges based upon expenses already incurred and commitments made by the Company plus a charge of ten (10%) percent of the contract price to compensate for indirect costs resulting from the termination.

16. Patents

Subject to those limitations set forth herein and more specifically paragraphs 10 and 11, the Company will, at its own expense, defend any suit which may be brought against the Purchaser based on a claim that any equipment, materials, or services furnished by the Company under contract constitutes an infringement of any United States letters patent (provided the Company is notified promptly of such suit and copies of all papers therein are delivered to the Company), and the Company agrees to pay all judgments and costs recovered in any such suit and to reimburse the Purchaser for costs or expenses incurred in the defense of any such claim or suit. In case said apparatus or any part is held to constitute infringement and the use of the equipment, materials, or services is enjoined, the Company shall, at its own expense, either procure for the Purchaser the right to continue using the apparatus or part or replace with non-infringing equipment, materials, or services or modify it so it becomes non-infringing, or remove the equipment, materials, or services and refund the purchase price and the transportation and installation cost thereof. The indemnity obligations of this Section shall not apply to (i) equipment or programming specified by the Purchaser, (ii) modification made to equipment by the Purchaser or at its request, or (iii) use of equipment in combination with other equipment not supplied or approved by the Company hereunder. The foregoing states the entire liability of the Company for patent infringement by the equipment, materials, or services or any part thereof.

17. Taxes

Prices quoted are exclusive of any present or future federal, state or local sales, use or excise taxes. In states where such sales, use or excise taxes apply, they will be added to the invoice as a separate item unless the Purchaser has furnished an acceptable tax exemption certification from such tax prior to shipment.

18. Scrap Materials

All scrap materials become the property of the Company.

19. Containers

An extra charge will be made for returnable containers and special shipping devices. A refund will be made only if the containers are returned in good condition to the factory or other point designated by the Company within ninety (90) days from the date of original shipment charges prepaid.

20. Site Exclusions

The Company shall not be liable or responsible in any way for any liability arising from any unanticipated, hidden or concealed site conditions of Purchaser's site or for injury to person(s) or property which is caused by such condition.

21. Confidential Information

All financial, statistical, operating and personnel materials and information, including, but not limited to, manuals, designs, drawings and specifications, and computer software programs and related documentation relative to or utilized in the Company's business or in the business of any affiliate or subsidiary of the Company is acknowledged by the Purchaser to be the valuable and confidential property of the Company. The Purchaser shall keep and maintain the confidentiality of such information and shall instruct its agents, employees, contractors, and subcontractors of the requirement that such information remain confidential. The Purchaser shall not disclose, photocopy, or otherwise duplicate any such materials without the prior written consent of the Company. Any unauthorized use of such materials or information by the Purchaser shall not affect the Company's ownership rights or the confidential status of such information.

22. Non-Solicitation

Purchaser agrees that it will not directly or indirectly engage, employ, solicit, or contact with a view toward the engagement or employment any person who is employed by or who acts as an independent contractor on behalf of the Company during the timeframe during services are rendered to Purchaser, and for a period of one (1) year after the completion of the project. In the event of any threatened breach of this non-solicitation provision, Company shall be entitled to injunctive relief by way of an Order to Show Cause, Temporary Restraining Order, Temporary Injunction, and Permanent Injunction without the necessity of posting bond.

23. Default/Breach

In addition to all other remedies available to Company, the Purchaser shall be liable and responsible to Company for any and all reasonable attorney's fees, costs, and expenses incurred with respect to enforcing the provisions of the terms and conditions of this Agreement including, but not limited to, all payment obligations required hereunder in the event of any default or breach of any terms and conditions contained herein by Purchaser.

24. Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the state of Missouri.

25. Forum Selection Provision

[The Company and Purchaser and all persons claiming any rights or privileges hereunder agree that the Circuit Court of St. Louis County, Missouri or the United States District Court for the Eastern District of Missouri shall be the sole and exclusive forum for the commencement and prosecution of any lawsuit. The Company and Purchaser agree to waive any and all objections they have to such forum and to jurisdiction, and agree that this provision is reasonable and affords access to the courts to all parties concerned hereunder. This section may be used by any party as a bar to any action filed in any other jurisdiction or in any other venue.]

26. Customer Responsibilities

Our delivery of the services provided herein at the fees set forth herein are dependent, among other things, upon your involvement in all aspects of the services rendered; your ability to provide accurate and complete information as required; your timely and effective completion of any responsibilities assigned to you; and timely decisions and approval by your management. You will be required to provide adequate work facilities either onsite or offsite, as may be reasonably acceptable to us.

27. Entire Agreement.

The terms and conditions herein, including all documents executed by the parties and pertaining hereto, constitute the entire agreement and understanding between the parties and supersedes any prior understandings, agreements, or representations by or among the parties, whether oral or written.

28. Amendment and Waivers

No changes, deletions, additions, or amendment to the Purchase Order and Terms and Conditions contained herein shall be valid unless in writing duly executed by each of the parties hereto.

29. Severability.

Any term or provisions of the Purchase Order and the Terms and Conditions contained herein that is invalid or unenforceable in any situation shall not affect the validity or enforceability of the remaining Terms and Conditions contained herein, and said remaining provisions shall continue with full force and effect as if such unenforceable or invalid provision shall not have been inserted in the first instance.

Accepted by: _____

Title: _____

PO #: _____

Date: _____



PROPOSAL

January 5, 2022

Project Name: City of Chandler North Alma School Rd Well Chlorination System

To: PCL Civil Constructors Inc.

**Per email 3/21/2022 - Pricing
still valid (Bob Skiles)**

SH Engineering & Mfg. is pleased to offer the following proposal for your consideration.

SH will provide the following materials and services FOB project

1 - 16'-0" x 14'-0" steel shop primed canopy with metal roof installed (excludes chain link fence)

1 - HDG post mount hose rack

1 - 4'-0" x 1'-10" x 1/4" aluminum cross over ramp

Total Price 17,125.00

Included is shop drawings and delivery to the site, off loading at the site is the responsibility of the purchaser, it is the purchasers responsibility to review shop drawings for accuracy and to obtain all field verification information.

Excluded are all taxes, bonds, permits, fees, engineering (unless specifically listed above) testing, inspections, field verification of provided shop drawings, weld testing or inspections, job specific welding procedure or qualification documents, installation (unless specifically listed above) materials testing, inspections, jobsite safety plans, cost of jobsite safety training, safety engineering/design work, coatings, epoxies for anchors, field touch up of shop primers or coatings, special or additional insurances including professional liability, builders risk, or any other item not specifically mentioned above.

All painted items include standard colors only; special colors may require extra costs

All aluminum and stainless steel is mill finished unless noted otherwise

SH Engineering & Mfg. is not an AISC certified shop

Shop priming is a shop coat of primer and may not be the specified coating system

Mill certificates for raw materials are only available upon the purchase of the materials and not available for submittal purposes

Deliveries are included as one delivery of each type of item (example one grating delivery, one hatch delivery)

Materials are not necessarily domestic, buy American or AIS unless specifically stated above

Term: Per SH Engineering and Mfg. Standard Purchase Agreement or

SH Engineering & Mfg. will only accept an agreement that has all materials itemized and mutually agreeable

This quote is good for 15 days.

Shop drawings are 6 to 16 weeks upon receipt of PO

Materials are 6 to 20 weeks after approval of shop drawings

100% due net 30 days from delivery to site (unit pricing) no retention allowed

Potential Escalation

We are in an unprecedented time of market fluctuation of material pricing, SH Engineering & Mfg. reserves the right to reprice all items at the time of actual purchase to reflect any escalation to pricing during the time of bid to the time items are released for fabrication. Pricing checks / clarifications will be made prior to any contract being executed

Sincerely,

Bob Skiles

shengmfg@shengmfg.com

Cell - 602 370-0656

WaCo Contracting - Proposal for Support at Alma School Chlorination Station

Quote to: PCL Date: 1/10/2021
Attention: Michael Cox
Project: Alma School Road Well Chlorination Addition
Email: mtcx@pcl.com

Item #	Tasks	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	Pothole to Confirm Connection	See below for details	1.00	LS	\$6,500.00	\$ 6,500.00
2	Provide and Install 12" Primus Liner	See below for details	1.00	LS	\$62,750.00	\$ 62,750.00
3	Provide and Install 12" Mueller Permaseal	See below for details	1.00	EA	\$42,500.00	\$ 42,500.00
SUBTOTAL						\$ 111,750.00
A1	Allowance for Traffic Control and Off-Duty	Charged at Invoice + 15%	1.00		\$ 20,000.00	\$ 20,000.00
A2	Allowance for Concrete Replacement	See Below	1.00		\$ 5,000.00	\$ 5,000.00
Price presented as all inclusive lump sum per task.						
Total Price Proposal						\$ 136,750.00

PROJECT DESCRIPTION

- 1 Pothole existing 12" valve on east side of Alma School to verify connection and procure materials.
- 2 Install 12" Primus Liner across Alma School (approx. 100' total length) per provided plans. Includes liner, fittings, installation, excavation of access pits, shoring and plating, backfill, and surface restoration.
- 3 Install 12" Mueller Perma Seal Insertion Valve on southside of Summit Place, just west of Alma School. Price includes excavation, shoring, backfill, and restoration.

Assumptions

- 1 All work to be performed per provided plans and above listed inclusions.
- 2 Survey/as-builts excluded / by others.
- 3 Changes in work scope or delays beyond WaCo's control may result in additional charges.

Mueller Permaseal Valves expected delivery 6-8 weeks upon receipt of PO.

This proposal to be included as part of subcontract.

(Below are standard exclusions to this proposal unless specifically included in line items above.)

We propose to furnish labor, equipment, and materials - complete in accordance with the plans and specifications supplied to us for the above mentioned project. All material is guaranteed to be as specified. All work will be completed in a workmanlike manner according to standard practices. Any alterations or deviations from the above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the proposed estimate.



Steve Chambers
(602) 770-3465
stevechambers@brundagebone.com

COMPANY	PCL						DATE:	3/17/2022		
CONTACT	MICHAEL COX						PHONE:	480-353-8761		
E-MAIL:	mtcox@pcl.com						FAX:			
PROJECT:	ALMA SCHOOL PIPE ABANDONMENT						QUOTE VALID THRU	June 30, 2022		
AVAILABLE EQUIPMENT	LINE PUMP	30 METER CLASS	31Z TELESCOPING BOOM	36 METER	41 METER CLASS	47 METER	50 METER CLASS	60 METER CLASS	63 METER	TELEBELT
	LINE PUMP	28M, 32M, 33M, AND 34M	31Z	36M	38M, 39M, AND 41M	47M	52M AND 56M	58M AND 61M	63M	TB130'
HOURLY CHARGE	\$160.00									
YARDAGE CHARGE	\$3.00									
MOBILIZATION CHARGE	ALL POURS WILL BE CHARGED AT THE EQUIPMENT'S HOURLY RATE, PORT TO PORT, WITH A ONE (1) HOUR MINIMUM.									
MINIMUM CHARGE	ALL POURS WILL BE CHARGED A MINIMUM OF FOUR (4) HOURS ONSITE.									
PRIME, PERMIT, ETC.	\$ 50.00	FUEL SURCHARGE: Based on current market rate. Market rate is currently				8%	CREDIT TERMS	NET30		
OVERTIME CHARGE - PER HOUR (WEEKDAYS)	\$ 55.00	OVERTIME CHARGES WILL BE ADDED TO ANY WORK PERFORMED OVER EIGHT (8) HOURS AND JOBS STARTING AFTER 1:00 PM.								
OVERTIME CHARGE - PER HOUR (WEEKENDS AND HOLIDAYS)	\$ 85.00	OVERTIME CHARGES WILL BE ADDED TO ANY WORK PERFORMED ALL DAY ON WEEKENDS AND HOLIDAYS. OVERTIME IS BASED ON PORT TO PORT HOURS.								
CANCELLATION CHARGE	\$ 500.00	CANCELLATION CHARGE WILL BE ADDED IF NOTICE IS NOT GIVEN ONE (1) HOUR PRIOR TO EQUIPMENT BEING DISPATCHED TO PROJECT.								
LABOR CHARGE - PER HOUR	\$ 85.00	LABOR WILL BE CHARGED PORT TO PORT FOR POURS REQUIRING MORE THAN ONE OPERATOR.								
SYSTEM CHARGES - PER FOOT	\$ 2.00	ANY POURS REQUIRING MORE THAN 50' OF SYSTEM WILL BE BILLED \$2.00 PER FOOT OVER THE INITIAL 50'. POURS REQUIRING 200' OR MORE WILL REQUIRE A SECOND MAN AND WILL BE BILLED AT THE LABOR RATE LISTED ABOVE.								
PER DIEM	N/A	PER DIEM IS CHARGED PER EMPLOYEE, PER DAY IF NEEDED				OFF- SITE WASHOUT		\$ 500.00	WHEN REQUIRED	
BACK-UP PUMP	A BACK-UP PUMP IS HIGHLY RECOMMENDED FOR LARGE POURS, HIGH SPEED RATE POURS, HIGH STRENGTH OR EXOTIC MIX DESIGNS AS WELL AS POURS OUTSIDE OF OUR NORMAL SERVICE AREA.									
RATES DO NOT INCLUDE ANY FEES, STATE OR LOCAL TAXES.										
RENTAL RATES ARE SUBJECT TO CHANGE IF QUOTE IS NOT ACCEPTED AND SIGNED WITHIN 30 DAYS OF ISSUE DATE.										
THIS QUOTE IS TO REMAIN CONFIDENTIAL BETWEEN OUR VALUED CUSTOMER AND BRUNDAGE BONE CONCRETE PUMPING, INC.										
<i>By requesting dispatch of a pump, even if quotation is not signed, the customer is agreeing to rates and terms of the quote.</i>										
<i>We reserve the right to add a 5% escalator after one year.</i>										
<i>Price may change due to unknown circumstances or job conditions, upwards of 15%.</i>										

X _____

X _____

ACCEPTED BY _____

BRUNDAGE BONE CONCRETE PUMPING, INC.

TITLE _____

BRUNDAGE-BONE CONCRETE PUMPING, INC.

1025 S 48TH STREET TEMPE, AZ 85281 * PHONE: (480) 317-1200 * FAX: (480) 317-1212 * WWW.BRUNDAGEBONE.COM



Phoenix, AZ 85040

josh@sherwoodwelding.com

PCL Construction

Michael Cox

480-535-7593

mtcox@pcl.com

Chandler, AZ

PLAN DATE

ADDENDA

Net 30

PROJECT NAME

City of Chandler - N. Alma School Chlorination System

Bid Date: 2/24/2022

SUBTOTAL	\$11,296.00
TAX RATE	
SALES TAX	
OTHER	
TOTAL	\$11,296.00

Permits, Engineering, Staking, Grading, Trenching, High & Low Voltage Wiring, Conduits, Gate Automation, Concrete, Finish Paint, and anything not listed is considered excluded

Sign Here to Accept Quote:

CONTRACTOR

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
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Authorized Rep

Date

BID-0612869 VARIOUS PHOENIX METRO LOCATIONS 4-022

3/23/2022 1:01 PM

GENERAL INFORMATION

Account:	PCL CIVIL CONSTRUCTORS INC	Project:	VARIOUS PHOENIX METRO LOCATIONS 4-2022
Account number:	3084630	Project Address:	8888 East Raintree Drive
Contact:	Geoff Wojtulewicz		SCOTTSDALE, Arizona 85260
E-mail:	gwojtulewicz@pcl.com		
Phone:	6026167619	Doc. Expiration Date:	4/22/2022
		Price Valid from:	3/23/2022
		Price Valid to:	9/30/2022
Customer Service:	602-416-2652		
Sales Office Address:	8888 E. Raintree, Suite 205 Scottsdale, AZ 85260		

MATERIAL PRICING

Material Number	Description	UoM	Quantity	Price per Unit	Notes
1554955	MAG B 2500 ASH STANDARD	YD3	100.00	\$142.00	
1530902	3000 psi fly ash performance mix	YD3	100.00	\$142.00	
1530903	3000 psi fly ash flowable performance mix	YD3	100.00	\$144.00	
1452246	4500 HVFA .45 W/C	YD3	100.00	\$149.00	
1452248	4500 HVFA .45 W/C FLOW	YD3	100.00	\$153.00	
1556313	MAG AA 4000 ASH STANDARD	YD3	100.00	\$148.00	
1556315	MAG AA 4000 ASH FLOWABLE	YD3	100.00	\$152.00	
1332797	MAG SEC728 0.5sk(PHCLSM 0.5)	YD3	100.00	\$100.00	
1332709	SLURRY #57 1.0sk ABC STANDARD	YD3	100.00	\$102.00	
1332953	SAND 0.5sk SLURRY STD	YD3	100.00	\$100.00	
1332980	SAND 1.0sk SLURRY STD	YD3	100.00	\$102.00	
1575834	FIBRFORCE 150,MONO,ABCPOLY	LB	1.00	\$7.00	
1605449	FIBERFORCE 750 MACRO SYNTHETIC FIBER	LB	1.00	\$6.00	
1555049	MAG A 3000 ASH STANDARD	YD3	100.00	\$144.00	
1555050	MAG A 3000 ASH FLOW STANDARD	YD3	100.00	\$146.00	

ADDITIONAL CLAUSES

Category	Item	Value	UoM	Comments
Pricing Escalation	These prices expire 09/30/2022			
Surcharges and Fees	Environmental compliance fee	\$25.00	USD/Load	
	Variable Fuel surcharge	\$32.00	USD/Load	At present, subject to change
	Short Load Fee	Per Schedule		Applies to loads 6 yards or less
	4 < 6 cu/ yds	\$200.00	USD/Load	
	2 < 4 cu/ yds	\$225.00	USD/Load	
	1 < 2 cu/ yds	\$250.00	USD/Load	
	Discharge Time	\$2.00	USD/min	Charge will apply to the time taken over and above 4 minutes per cubic yard for discharge time or a maximum of 45 minutes per load
	Bucket Washout fee (Chute rinse recovery system)	\$25.00	USD/Load	This service must be requested at the time of placing an order
	Color Washout fee	\$25.00	USD/Load	Applies to all loads with colored concrete
	Order Cancellation fee	\$8.00	USD/Cu Yd	Minimum of 275.00 USD. Applies to all orders cancelled after 12:00 pm the business day prior. Orders for Monday must be cancelled by 12:00 pm Friday to avoid fees
	Concrete Disposal	Up to 300	USD/Load	Full load of returned concrete \$300 ; Partial load of returned concrete \$125.00
	Saturday premium charge - Ready Mix	\$10.00	USD/Cu Yd	
	Plant Opening and Off Hours	Upon Request		Off hours, Saturday and Sunday opening fees will be quoted upon request.
	Multi-stop	\$85.00	USD/Load	
	Out-of-Area Fee	Upon Request	USD/Load	

Additional Products and Services

Accelerator - Winter Set - 1 - Add	\$4.00	USD/Cu Yd
Accelerator - Winter Set - 2 - Add	\$7.00	USD/Cu Yd
Accelerator - Winter Set - 3 - Add	\$10.00	USD/Cu Yd
Accelerator - Winter Set - 4 - Add	\$14.00	USD/Cu Yd
Retarder - Summer Set - 1	\$3.00	USD/Cu Yd
Retarder - Summer Set - 2	\$4.00	USD/Cu Yd
Retarder - Summer Set - 3	\$5.00	USD/Cu Yd
Retarder - Summer Set - 4	\$6.00	USD/Cu Yd
Chilled water (where available)	\$2.00	USD/Cu Yd
Hot water (where available)	\$2.00	USD/Cu Yd
Ice - when requested for temperature control	\$0.50	USD/lbs
Nitrocrete	\$5.00	USD/Gallon

Pricing Conditions

All Sales are subject to CEMEX Standard terms and conditions which shall control and take precedence over any terms and conditions to the contrary in any purchase order or other document. Customer is responsible for Applicable Sales Tax. Such taxes will appear on invoice unless Sales Tax exemption certificate is on file at CEMEX prior to shipping. If plans or specifications were not available for review at the time of this quote, all specification mixes will require further pricing review. Prices quoted are subject to availability of materials and subject to change prior to commitment. There will be a fuel surcharge on all delivered loads. The charge will be on a sliding scales adjusted monthly based on fuel price according to WEST COAST PADD 5 (Diesel)

Payment terms

Payment Terms are standard as follows: 1% 15th Net 20 (15th of the month following delivery)
Delayed portion of payment will attract a Finance charge of the lessor of 1.5% per month, 18% per annum or maximum permitted under applicable laws

Respectfully,

CEMEX Con Mat South,LLC

Jessica B Cutter
Phone: 480-980-1288
Email: Jessicab.cutter@cemex.com

Accepted by:

PCL CIVIL CONSTRUCTORS INC

AZ ROC# 175953

Quote # AZ: 31822

**Professional Pipe Services, Inc.**

4940 W. Watkins St., Phoenix, AZ 85043

O: 602-861-3944 F: 602-861-1423

Ken Bunes | M: 602-725-2935

ken.bunes@pro-pipe.com | www.pro-pipe.com

PROPOSAL SUBMITTED TO: PCL Construction	DATE 3/18/2022	PHONE (480) 535-7593
STREET (Business address) 1711 W Greentree Drive, Suite 201	JOB / PROJECT NAME Alma School PS Project	
CITY, STATE AND ZIP CODE Tempe, AZ 85284	JOB LOCATION Chandler, AZ	
CONTACT NAME Michael Cox	NON-PREVAILING WAGE QUOTE mtcox@pcl.com	

ITEM	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
NOTE:	Water (Owner shall provide mobile means of providing water, such as mobile meter or fire hydrant hookup)				
1	Vactor Truck and Crew - Daily Rate	1	Day	\$2,400.00	\$2,400.00
2	Disposal	1	Each	\$600.00	\$600.00
	Days are Estimated. Actual will be Invoiced.				

GRAND TOTAL:**Per Rates Above****EXCLUSIONS (any qualifications to exclusions are in parenthesis)**

1	Flow Diversion, Bypass Pumping and Operating Pump Stations
2	Excavation of any kind
3	Permits, Licenses and Performance Bonds
4	Access (Owner shall provide adequate access)
5	Major Traffic Control
6	Disposal (Owner shall provide local disposal site and cover associated fees)
7	Water (Owner shall provide mobile means of providing water, such as mobile meter or fire hydrant hookup)
8	Mechanical/Heavy Cleaning (a quote can be provided if required)
9	Note: Standard Cleaning includes 3-Pass Cleaning. More than 3 Passes will be considered Mechanical/Heavy Cleaning
10	Pro-Pipe is not responsible for any Liquidated/Consequential Damages due to scheduling conflicts.

WE PROPOSE hereby to furnish material and labor -- complete in accordance with above specifications, for the sum of:**Payment terms:**

30 Days of Invoice

Dollars:**Per Rates Above**

This proposal shall be incorporated into the service contract when Pro Pipe is listed as a subcontractor.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Maximum allowable interest charge on overdue invoices. Professional Pipe Services will provide certificate of insurance upon request.

Authorized Signature:

This proposal may be withdrawn by us if not accepted within 30 days.

ACCEPTANCE OF PROPOSAL :

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Requests for additional services beyond the above outlined scope will be submitted by written change order and payment thereof made accordingly.

Date

Customer Signature

Print name/Title



Canyon State Barricade Service LLC

28264 N. 166th Ave
Surprise, AZ 85387
602-795-8821

QUOTATION

Quote Date	Quote ID
3/23/2022	2021000319

Valid Through: 4/22/2022

PCL Construction Inc.

Mike Cox
1711 W. Greentree Dr. Suite 201
Tempe, AZ 85284
Phone: 480-829-6333

Job Location:

3202 N. Alma School
Chandler
Quote Created By: Larry Herrera
Estimated Days: 90

Item Description	Price	UOM	Qty/Day	Days	Total Qty.	Total
Daily Traffic Control - Single lane closure w/Sidewalk Closure *	\$90.00	Each/Per Day	1	1	1	\$90.00
Daily Traffic Control -Midblock w/Sidewalk Closure *	\$45.00	Each/Per Day	1	1	1	\$45.00
Traffic Control Plan- Design/Submittal - *	\$60.00	Per Day	1	1	1	\$60.00
1 Tech 1 Truck Labor -Delivery/setup-takedown/pickup Single Lane closure *	\$60.00	Per Hour	2.5	1	2.5	\$150.00
2 Techs 1 Truck Labor - Delivery/setup-takedown/pickup Midblock closure *	\$85.00	Per Hour	2.5	1	2.5	\$212.50
2 Techs 2 Trucks Labor - Delivery/setup-takedown/pickup Midblock closure *	\$115.00	Per Hour	3	1	3	\$345.00

Note: The * indicates taxable items.

Quote is for construction traffic control with a alternating lane closures, 24hr traffic control , right lane/shoulder, midblock, traffic shifts work zone closure(s) for 500ft to provide work zone for wet/dry utilities, asphalt/concrete & associated work, 2 men 1 truck labor with delivery & setup/pickup included in price. 90-day time frame at a time or less. Sidewalk closure, traffic plan & once a week service included. Assigned Project Manager 24/265-ATSSA CERTIFIED will be provided to assist with traffic control coordination.

Thank you for the opportunity to provide you with a traffic control estimate!! We appreciate it very much!!

Scope: Delivery,setup,tear down or pickup of traffic control per approved traffic control plan (TCP).Changes made outside the scope of work will require a change order and will be billed time & materials. Price subject to change based on the approved traffic plan.

Excluded: Portable Message Boards

Arrow Boards

Flaggers

Standby Time

Temporary Pedestrian Fence

Barricading or covering of hazards

Municipal Plan Review Fee, Permit Fees, Shadow Truck, Project Specialty Signs, Concrete or Water Filled Barrier Wall, Flagman, Police Officers, Stand by Time, ADA Ramp. Public info directional access signs, radar/speed sensing trailers, and other applicable Intelligent Transportation System type devices.

Off Duty officer required within 300 LF of intersection = \$90/HR

Pre-warning Signs 1-2 week notifications at \$150.00 EA (Total 4 EA)

Quote For: PCL Construction Inc. - Quote ID: 2021000319 (cont.)

Add'l Terms: Number of days listed on quote is an estimate, customer will be billed for actual days used unless accepted in writing by Canyon State Barricade Service, L.L.C.
Invoices are payable with Terms of Net 30 Days.
Quote includes only items listed above, additional devices will be charged seperately.
ACCEPTANCE OF PROPOSAL/CONTRACT: Your signature on a copy of this proposal returned to us shall indicate your acceptance, and this document shall become a legally binding contract between us.
The Customer is responsible for all collection costs & attorney fees incurred by Canyon State Barricades, LLC., including, but not limited to filing & recording fees, and costs.
Initials
Invoices will be based off the actual ticketed equipment and / or labor delivered to the job.
This quote is valid for 60 days. If work starts after 60 days, then Canyon State Barricade Service LLC reserves the right to nullify this quote and re-quote at its own discretion.
Sales tax is not included and will be added to all billings. Tax rate subject to change if the prevailing rate changes.
0% Retention

	3/23/2022	Accepted By:	
Larry Herrera	Date	Signature	Date
Canyon State Barricade Service LLC		Print Name	
		Title	
		Company	

Michael Cox

From: Frank Ruegsegger <fruegsegger@gmail.com>
Sent: Wednesday, March 23, 2022 7:42 AM
To: Michael Cox
Subject: Re: City of Chandler - N. Alma School Road

Updated pricing below.

Soils Export - 17 loads. \$115.00 per hour. Travel to the job. \$35.00 dump fee. 1.13 hrs per round. (SRM-D)
Asphalt - 1 load. \$115.00 per hour. Travel to the job. \$75.00 dump fee. 1.1 hrs per round. (JS)
Sand - 1.33 loads. \$125.00 per hour. Travel to the pit. \$13.50 per ton FOB. 1.56 hrs per round. (SRM-H)
No LIME MAG ABC \$16.75 per ton delivered. (GRS)

No good through date provided.

Any given quote could change without prior notice.

Fuel surcharge of 2% will be added to above quote, if fuel goes up \$.020 per gallon from the date give.

All aggregate quotes are 100 ton minimum unless otherwise specified.

Quotes do not reflect nights or weekend work, resulting in an additional

\$10.00 per hour, plus dump fees/materials. 4 hour minimum on all trucks ordered. In the event a supplier of a quoted job runs out of material,

Matt Brown Trucking will not be liable and additional cost will be passed on to the receiving Contractor, "if an alternative source is required"

Best Regards,

Frank.

Matt Brown Trucking Inc.
frank@mattbrowntrucking.com
623.329.1392 Cell
602.499.3151 Dispatch



TRENCH SAFETY

BRANCH 465
1139 NORTH 27TH AVENUE
PHOENIX AZ 85009
602-267-8800
602-352-6605 FAX

RENTAL QUOTE

204164384

Job Site

GILBERT VALVE
3400 N ALMA SCHOOL
CHANDLER AZ 85224

Office: 480-829-6333 Cell: 480-353-8761

PCL CONSTRUCTION INC TEMPE
1711 W GREENTREE DR STE 201
TEMPE AZ 85284-2717

Customer # : 450403
Quote Date : 03/15/22
Estimated Out : 04/04/22 07:00 AM
Estimated In : 05/02/22 07:00 AM
UR Job Loc : 3400 N ALMA SCHOOL,
UR Job # : 206
Customer Job ID:
P.O. # : QUOTE
Requested By : GEOFF WOJTULEWICZ
Written By : JAMES LINDQUIST
Salesperson : JAMES LINDQUIST

This is not an invoice
Please do not pay from this document

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Estimated Amt.
2	942/8325	END SHORE 8'		9.00	45.00	135.00	270.00
2	942/8286	END SHORE 5'		6.25	31.25	93.75	187.50
8	942/8344	SPEED STRUT MOD 92 (56"-92")		35.00	105.00	315.00	2,520.00
1	940/6950	SHORING PUMP HAND		16.80	81.90	244.65	244.65
1	940/6850	RELEASE TOOL 48"		7.35	36.75	108.15	108.15
1	940/7772	PLYWOOD SHORE LIFT BAR 72"		14.70	73.50	219.45	219.45
25	943/2200	W14 WIDE FLANGE BEAM (LINEAR FEET)		1.50	7.50	27.75	693.75

Rental Subtotal: 4,243.50

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	PROPERTY TAX SURCHARGE	[DRSURAZ/MCI] 63.650	EACH	63.65
1	DELIVERY CHARGE	275.000	EACH	275.00
1	PICKUP CHARGE	275.000	EACH	275.00

Sales/Misc Subtotal: 613.65

Agreement Subtotal: 4,857.15

Tax: 417.71

Estimated Total: 5,274.86

COMMENTS/NOTES:

CONTACT: MIKE COX
CELL#: 480-353-8761
DLV/PKU LOC SELECTED BY MAP PIN OPTION

This proposal may be withdrawn if not accepted within 30 days. The above referenced Rental Protection Plan, environmental, and tax charges are estimates and are subject to change.

NOTICE: This is not a rental agreement. The rental of equipment and any items listed above is subject to availability and subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-US> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.

FERGUSON WATERWORKS, LLS

111 E. Buckeye Rd, STE 5, Phoenix, AZ 85004

T: 602-495-8420

F: 602-262-4276

Allyson Baptista

Exposed Piping			LS			
		UOM		UNIT	EXT	SELL
Hose Bib		1.00	LS			
Detail 3 /M-3						
Vacuum Breaker Refer to Spec 15119-8.G.1						
3/4" Hose Bibb w/ Vacuum Breaker		1.0	EA	\$	27.97	\$ 27.97
3/4" Globe Valve THD		1.0	EA	\$	172.89	\$ 172.89
NIBCO MODEL T-235-Y. CURRENTLY IN STOCK						
3/4" SOD Type L Copper Pipe		20.0	LF	\$	4.41	\$ 88.27
3/4" CU SOD 90 Bend		1.0	EA	\$	2.42	\$ 2.42
Hose Bib		1.00	LS			
3/8" Copper Chlorine Line		1.00	LS			
Note 14 / Sheet M-1						
3/8" Type L Copper Pipe		40.0	LF	\$	2.13	\$ 85.15
1/2" Type L Copper Pipe		20.0	LF	\$	2.71	\$ 54.16
3/8" CU SOD 90 Bend		8.0	EA	\$	3.04	\$ 24.31
3/8" CU SOD Coupling		4.0	EA	\$	0.98	\$ 3.91
1/2"x3/8" CU SOD Reducer		2.0	EA	\$	1.66	\$ 3.32
1/2" CU SOD 90 Bend		2.0	EA	\$	1.10	\$ 2.19
1/2" Ball Valve Brass THD		2.0	EA	\$	27.00	\$ 54.00
Solenoid Valve - Refer to Spec 15119-5.B						
Note 18 on M-1 (ASCO 210, 120V Coil or Equal)						
1/2" Solenoid Valve		1.0	EA	\$	196.57	\$ 196.57
1/2" Needle Valve THD		1.0	EA	\$	62.07	\$ 62.07
QUOTING 1/2" CS NEEDLE VLV. LEAD TIME 4 WEEKS						
1/2" Check Valve THD		1.0	EA	\$	12.58	\$ 12.58
1/2" Wye Strainer		1.0	EA	\$	38.78	\$ 38.78
PRV - Note 22 on M-1 (Watts LF26A or Equal, 1-25psi Range)						
1/2" Pressure Reducing Valve		1.0	EA	\$	166.83	\$ 166.83
1/2" CU SOD Union		4.0	EA	\$	11.59	\$ 46.36
Pressure Gauge & Ball Valve (0-100psi (Ashcroft Type 1279 or Equal))						
1/2" Pressure Gauge & Ball Valve		1.0	EA	\$	364.20	\$ 364.20
LEAD TIME 4-6 WEEKS PLUS TRANSIT						
Pressure Gauge & Ball Valve (0-30psi (Ashcroft Type 1279 or Equal))						
1/2" Pressure Gauge & Ball Valve		1.0	EA	\$	373.79	\$ 373.79
LEAD TIME 4-6 WEEKS PLUS TRANSIT						
Rotometer, King Series 7510-2-12A06, scaled in LPM						
1/2" Rotometer		1.0	EA	\$	108.81	\$ 108.81
LEAD TIME 2 WEEKS PLUS TRANSIT						
3/8" Copper Chlorine Line		1.00	LS			
1/2" PVC Sample Waste Line to SRP JB		1.00	LS			
1/2" PVC SCH80 Pipe		40.0	LF	\$	0.81	\$ 32.40
ONLY AVAIL IN PE						
1/2" PVC SCH80 SW 90 Bend		4.0	EA	\$	3.09	\$ 12.37
1/2" PVC SCH80 SW Union		2.0	EA	\$	11.34	\$ 22.67
1/2" PVC SCH80 SW Coupl		4.0	EA	\$	5.57	\$ 22.28
Misc.		1.0	LS			
1/2" PVC Sample Waste Line to SRP JB		1.00	LS			

1" PVC Chlorine System Water Supply		1.00	LS		
1" PVC SCH80 Pipe		20.0	LF	\$ 1.71	\$ 34.20
1" PVC SCH80 SW 90 Bend		6.0	EA	\$ 6.54	\$ 39.26
1" PVC SCH80 SW Union		2.0	EA	\$ 16.83	\$ 33.66
PRV - Watts Model LFU5B w/ Gauge or "equal"					
1" Pressure Reducing Valve		1.0	EA	\$ 1,513.57	\$ 1,513.57
LEAD TIME 8 WEEKS OUT. MADE TO ORDER ITEM					
1" PVC Chlorine System Water Supply		1.00	LS		
1" PVC Chlorine Injection Line		1.00	LS		
1" PVC SCH80 Pipe		20.0	LF	\$ 1.71	\$ 34.20
1" PVC SCH80 SW 90 Bend		6.0	EA	\$ 6.54	\$ 39.26
1" PVC SCH80 SW Union		2.0	EA	\$ 16.83	\$ 33.66
1" PVC Chlorine Injection Line		1.00	LS		
12" DI Main WL		1.00	LS		
12" DI FLG C110 90 Bend CM/ Prime		2.0	EA	\$ 822.98	\$ 1,645.95
12"X8'0" FXP Spool CL53 CM/Prime		2.0	EA	\$ 3,054.03	\$ 6,108.06
1 12" x 8'-0" Spool to have 2 EA 1" Weld-O-Lets					
12"X8'0" FXP Spool CL53 CM/Prime		1.0	EA	\$ 2,054.03	\$ 2,054.03
12" Gate Valve FLG (HW)		1.0	EA	\$ 2,058.95	\$ 2,058.95
12" B+N Set STL150# A193 GrB7		8.0	EA	\$ 35.53	\$ 284.23
12" Neoprene Gasket 150#		8.0	EA	\$ 23.02	\$ 184.19
8" Neoprene Gasket 150#		8.0	EA	\$ 10.86	\$ 86.87
1/2" Ball Valve Brass THD		2.0	EA	\$ 27.00	\$ 54.00
1/2"x4" Brass Nipple THD		4.0	EA	\$ 4.78	\$ 19.11
1/2" x 1" Brass Busing		2.0	EA	\$ 3.98	\$ 7.95
1/2" Sample Tap (Model No. FY-691-LF)					
Sample Tap		1.0	EA		
12" DI FLG C110 Tee CM/Prime		1.0	EA	\$ 1,086.29	\$ 1,086.29
12" DI Blind FLG CM/ Prime w/ 2" Thread)		2.0	EA	\$ 337.01	\$ 674.03
2" Air Release Valve w/ 2" Ball Valve		2	EA	\$ 693.36	\$ 1,386.71
				TOTAL	\$ 19,356.48

FERGUSON WATERWORKS, LLS

111 E. Buckeye Rd, STE 5, Phoenix, AZ 85004

T: 602-495-8420

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Allyson Baptista

Supports			LS
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UOM

UNIT

EXT SELL

Hose Bib Connection	1.00	LS
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1-5/8" 316SS Uni Strut	12.0	LF
1-5/8" 316SS Uni Strut Base	1.0	EA
1" 316SS Unistrut Cush Clamp	4.0	EA
1/2" SST Anchor Bolts	4.0	EA

\$	43.75	\$	525.00
\$	87.50	\$	87.50
\$	18.75	\$	75.00
\$	18.75	\$	75.00

Hose Bib Connection	1.00	LS
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Well Chlorination Lines	1.00	LS
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Includes Material for Chlorine Analyzer Support

1-5/8" 316SS Uni Strut Base	12.0	EA
1-5/8" 316SS Uni Strut	100.0	LF
1/2" 316SS Unistrut Cush Clamps	12.0	EA
1" 316SS Unistrut Cush Clamps	12.0	EA
316 SST Angle Connections	20.0	EA
Spring Nuts / Accessories	1.0	LS
1/2" SST Anchors 6" Long	40.0	EA

\$	87.50	\$	1,050.00
\$	43.75	\$	4,375.00
\$	43.75	\$	525.00
\$	50.00	\$	600.00
\$	18.75	\$	375.00
\$	875.00	\$	875.00
\$	18.75	\$	750.00

Well Chlorination Lines	1.00	LS
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TOATL \$ 9,312.50

FERGUSON WATERWORKS, LLS

111 E. Buckeye Rd, STE 5, Phoenix, AZ 85004

T: 602-495-8420

F: 602-262-4276

Allyson Baptista

12" WL (E/W On W Summit Place)		1.00	LS
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DIP / Cement Lined / MJ

Estimated Depth = 7'-0"

	UOM		UNIT	EXT SELL
14"X12" DI MJ C153 Reducer CM/ Tar	1.0	EA	\$ 295.63	\$ 295.63
12"X 1" Tapping Saddle w/ Double SS Strap	1.0	EA	\$ 215.61	\$ 215.61
12" Gate Valve MJ Op Nut	3.0	EA	\$ 2,077.32	\$ 6,231.96
Buried Valve Operator Extension 8'	3.0	EA	\$ 284.78	\$ 854.35
Valve Box / Cover COC DTL C-307	3.0	EA	\$ 230.07	\$ 690.21
12" DI MJ C153 Tee CM/ Tar	1.0	EA	\$ 496.65	\$ 496.65
12" DI MJ C153 90 Bend CM/ Tar	1.0	EA	\$ 357.44	\$ 357.44
12" DI MJ C153 Solid Cap CM/ Tar	1.0	EA	\$ 144.59	\$ 144.59
12" DI PIPE MJ CM/Tar	60.0	LF	\$ 44.80	\$ 2,687.97
14" DI MJ Accy Set	1.0	EA	\$ 157.36	\$ 157.36
12" DI MJ Accy Set	10.0	EA	\$ 155.56	\$ 1,555.57
6"X 1000' Detectable Tape "Water"	1.0	EA	\$ 79.21	\$ 79.21
10"-12" Poly Encasement for Buried Pipe	308.0	LF	\$ 0.70	\$ 215.60
Tracer Wire 14 Gauge UF, THWN, or THHN	200.0	LF	\$ 0.17	\$ 33.81

12" WL (E/W On W Summit Place)		1.00	LS
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12" WL from W Summit to Inside Plant		1.00	LS
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1 EA Gate Valve Included in 12" WL E/W Section

12" DI MJ C153 90 Bend CM/ Tar	10.0	EA	\$ 357.44	\$ 3,574.38
12" DI MJ C153 Tee CM/ Tar	1.0	EA	\$ 496.65	\$ 496.65
12" DI MJ C153 45 Bend CM/ Tar	2.0	EA	\$ 295.63	\$ 591.25
14" x 12" MJ C153 Reducing Bend	2.0	EA	\$ 295.63	\$ 591.25
12" DI PIPE MJ CM/Tar	200.0	LF	\$ 44.80	\$ 8,959.92
14" Specialty Primus Transition Spool	1.0	EA	\$ 500.00	\$ 500.00
14" DI MJ Accy Set	1.0	EA	\$ 157.36	\$ 157.36
12" DI MJ Accy Set	28.0	EA	\$ 155.56	\$ 4,355.60

12" WL from W Summit to Inside Plant		1.00	LS
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3/8" Copper Sample Line		200.00	LF
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3/8" Type K Copper Pipe	200.0	LF	\$ 2.97	\$ 593.10
3/8" CU SOD 90 Bend	6.0	EA	\$ 3.03	\$ 18.20
3/8" CU SOD Coupling	10.0	EA	\$ 0.97	\$ 9.70
3/8" CU SOD 45 Bend	4.0	EA	\$ 4.76	\$ 19.05
Solder	2.0	EA	\$ 60.50	\$ 121.00
Solder Torch	2.0	EA	\$ 50.00	\$ 100.00
Adhesive Tape 2x100'	4.0	EA	\$ 7.48	\$ 29.93

3/8" Copper Sample Line		200.00	LF
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1 1/2" Copper WL		200.00	LF
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1-1/2" Type K Copper Pipe	200.0	LF	\$ 13.30	\$ 2,659.22
1-1/2" CU SOD 90 Bend	8.0	EA	\$ 13.66	\$ 109.26
1-1/2" CU SOD 45 Bend	6.0	EA	\$ 13.83	\$ 83.00
1-1/2" CU SOD Tee	2.0	EA	\$ 27.63	\$ 55.27
1-1/2" CU SOD Coupling	10.0	EA	\$ 7.51	\$ 75.09

1 1/2" Reduced Pressure Zone Backflo Preventer (COC Detail C-311)

1-1/2" Backflow Preventer		1.0	EA	\$ 557.45	\$ 557.45
BFP Enclosure		1.0	EA	\$ 374.59	\$ 374.59
1-1/2" CU SOD Union		2.0	EA	\$ 57.99	\$ 115.97

1 1/2" Copper WL		200.00	LF		
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1" Copper Feed to Chlorinator		40.00	LF		
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1" Type K Copper Pipe		40.0	LF	\$ 8.24	\$ 329.74
1" Type L Copper Pipe		20.0	LF	\$ 6.30	\$ 125.97
1" CU SOD 90 Bend		10.0	EA	\$ 5.92	\$ 59.19
1-1/2" Backflow Preventer		1.0	EA	\$ 557.45	\$ 557.45
BFP Enclosure		1.0	EA	\$ 375.20	\$ 375.20
1-1/2" CU SOD Union		2.0	EA	\$ 60.83	\$ 121.66
1" Hose Bibb Barb		2.0	EA	\$ 9.67	\$ 19.34
Solder		2.0	EA	\$ 48.57	\$ 97.14
Solder Torch		2.0	EA	\$ 57.14	\$ 114.29
Adhesive Tape 2x100'		1.0	EA	\$ 7.71	\$ 7.71

1" Copper Feed to Chlorinator		40.00	LF		
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Chemical Piping from Tablet Feeder		1.00	LS		
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Double Contained Piping

3" PVC Sleeve / 1" PVC Hose

3" PVC SCH80 Pipe		40.0	LF	\$ 8.56	\$ 342.40
3" PVC SCH80 SW Long Radius 90 Bend		4.0	EA	\$ 141.30	\$ 565.20
1" PVC Tubing Braided		40.0	LF	\$ 5.00	\$ 200.00

1" SAF T Flo Model EB0159-S-C-4-B-03 or Approved Equal

1" Chlorine Inector		1.0	EA	\$ 1,653.43	\$ 1,653.43
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Chemical Piping from Tablet Feeder		1.00	LS		
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TOTAL \$ 42,731.91

EQUIPMENT

Equipment	Bluebook Rates (\$/hr)
4x2 3/4 TN Crew Truck Gas	\$32.82
Generator	\$4.32
500 GAL Water Tank	\$15.15
316 Excavator	\$125.24
65lb Hammer	\$1.26
Air Compressor	\$20.59
Cat 420 Backhoe	\$50.26
Manual Compactor	\$44.54
Rammer	\$5.15

Billable hourly rates shall be FHWA operated rates published by
Bluebook (penton) on equipment watch.com

Adjustments for Pickup truck 3/4t 4x2 ext cab gas in All Saved Models

August 9, 2021

Miscellaneous 4X2 3/4 383 EXT GAS

On-Highway Light Duty Trucks

Size Class:
300 HP & Over
 Weight:
N/A



Configuration for 4X2 3/4 383 EXT GAS

Axle Configuration	4X2	Cab Type	Extended
Horsepower	383 hp	Power Mode	Gasoline
Ton Rating	3/4		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$1,120.00	USD \$315.00	USD \$79.00	USD \$12.00	USD \$26.65	USD \$33.01
Adjustments						
Region (Arizona: 96.9%)	(USD \$34.72)	(USD \$9.77)	(USD \$2.45)	(USD \$0.37)		
Model Year (2021: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$1,085.28	USD \$305.23	USD \$76.55	USD \$11.63	USD \$26.65	USD \$32.82

Non-Active Use Rates

	Hourly
Standby Rate	USD \$4.38
Idling Rate	USD \$27.78

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	57%	USD \$638.40/mo
Overhaul (ownership)	29%	USD \$324.80/mo
CFC (ownership)	2%	USD \$22.40/mo
Indirect (ownership)	12%	USD \$134.40/mo
Fuel (operating) @ USD 2.97	81%	USD \$21.61/hr

Revised Date: 3rd quarter 2021

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for GEOFF WOJTULEWICZ (gwojtulewicz@pcl.com)

Adjustments for Generator 6kw in All Saved Models

August 9, 2021

Miscellaneous 6000 Small Generators

Size Class:
5,001 - 10,000 Watts
Weight:
375 lbs



Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$175.00	USD \$49.00	USD \$12.00	USD \$2.00	USD \$3.39	USD \$4.38
Adjustments						
Region (Arizona: 94%)	(USD \$10.50)	(USD \$2.94)	(USD \$0.72)	(USD \$0.12)		
Model Year (2021: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$164.50	USD \$46.06	USD \$11.28	USD \$1.88	USD \$3.39	USD \$4.32

Non-Active Use Rates

	Hourly
Standby Rate	USD \$0.49
Idling Rate	USD \$3.10

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	39%	USD \$68.25/mo
Overhaul (ownership)	48%	USD \$84.00/mo
CFC (ownership)	1%	USD \$1.75/mo
Indirect (ownership)	12%	USD \$21.00/mo
Fuel (operating) @ USD 2.97	64%	USD \$2.17/hr

Revised Date: 3rd quarter 2021

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(gwojtulewicz@pcl.com)

Rental Rate Blue Book®

August 9, 2021

Miscellaneous 750 5000

Water Trailers

Size Class:

4,501 - 7,000 gal

Weight:

17000 lbs

Configuration for 750 5000

Pump Capacity **750.0 gal/min**

Tank Capacity

5000.0 gal
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$1,485.00	USD \$415.00	USD \$105.00	USD \$16.00	USD \$7.10	USD \$15.54
Adjustments						
Region (Arizona: 95.4%)	(USD \$68.31)	(USD \$19.09)	(USD \$4.83)	(USD \$0.74)		
Model Year (2021: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$1,416.69	USD \$395.91	USD \$100.17	USD \$15.26	USD \$7.10	USD \$15.15

Non-Active Use Rates

Hourly

Standby Rate

USD \$5.07

Idling Rate

USD \$8.05

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	USD \$608.85/mo
Overhaul (ownership)	37%	USD \$549.45/mo
CFC (ownership)	3%	USD \$44.55/mo
Indirect (ownership)	19%	USD \$282.15/mo

Fuel cost data is not available for these rates.

Revised Date: 3rd quarter 2021

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(gwojtulewicz@pcl.com)

Rental Rate Blue Book®

March 3, 2022

Caterpillar 316FL

Crawler Mounted Hydraulic Excavators



Size Class:

16.1 - 19.0 MTons

Weight:

N/A
Configuration for 316FL

Operating Weight

39680 lbs

Power Mode

Diesel
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$14,075.00	USD \$3,940.00	USD \$985.00	USD \$150.00	USD \$47.27	USD \$127.24
Adjustments						
Region (Arizona: 97.5%)	(USD \$351.88)	(USD \$98.50)	(USD \$24.63)	(USD \$3.75)		
Model Year (2022: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$13,723.13	USD \$3,841.50	USD \$960.38	USD \$146.25	USD \$47.27	USD \$125.24

Non-Active Use Rates

Standby Rate

Hourly

USD \$42.11

Idling Rate

USD \$86.46

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	40%	USD \$5,630.00/mo
Overhaul (ownership)	46%	USD \$6,474.50/mo
CFC (ownership)	4%	USD \$563.00/mo
Indirect (ownership)	10%	USD \$1,407.50/mo
Fuel (operating) @ USD 3.65	18%	USD \$8.49/hr

Revised Date: 1st quarter 2022

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for GEOFF WOJTULEWICZ (gwojtulewicz@pcl.com)

Rental Rate Blue Book®

April 22, 2021

Miscellaneous SILENCED 60-65 LBS
Hand-Held Pavement Breakers

Size Class:
56 - 70 lbs
Weight:
61 lbs

Configuration for SILENCED 60-65 LBS

Weight **60-65 lbs**
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$115.00	USD \$32.00	USD \$8.00	USD \$1.00	USD \$0.61	USD \$1.26
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2021: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$115.00	USD \$32.00	USD \$8.00	USD \$1.00	USD \$0.61	USD \$1.26

Non-Active Use Rates

	Hourly
Standby Rate	USD \$0.29
Idling Rate	USD \$0.65

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	39%	USD \$44.85/mo
Overhaul (ownership)	55%	USD \$63.25/mo
CFC (ownership)	1%	USD \$1.15/mo
Indirect (ownership)	5%	USD \$5.75/mo

Fuel cost data is not available for these rates.

Revised Date: 1st half 2021

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for CRAIG YAKUBOW
(cyakubow@pcl.com)

Rental Rate Blue Book®

August 9, 2021

Doosan C185WDZ

Portable Rotary Screw Air Compressors

Size Class:
125 - 249 cfm
Weight:
N/A


Configuration for C185WDZ

Air Delivery Rating	185.0 cu ft/min	Horsepower	49.0 hp
Power Mode	Gasoline	Rated Pressure	100.0 psi

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$1,305.00	USD \$365.00	USD \$91.00	USD \$14.00	USD \$13.58	USD \$20.99
Adjustments						
Region (Arizona: 94.6%)	(USD \$70.47)	(USD \$19.71)	(USD \$4.91)	(USD \$0.76)		
Model Year (2021: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$1,234.53	USD \$345.29	USD \$86.09	USD \$13.24	USD \$13.58	USD \$20.59

Non-Active Use Rates

	Hourly
Standby Rate	USD \$2.38
Idling Rate	USD \$15.89

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	25%	USD \$326.25/mo
Overhaul (ownership)	66%	USD \$861.30/mo
CFC (ownership)	2%	USD \$26.10/mo
Indirect (ownership)	7%	USD \$91.35/mo
Fuel (operating) @ USD 2.97	65%	USD \$8.88/hr

Revised Date: 3rd quarter 2021

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for GEOFF WOJTULEWICZ
(gwojtulewicz@pcl.com)

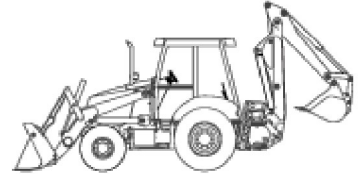
Rental Rate Blue Book®

August 9, 2021

Caterpillar 420F2

Tractor-Loader-Backhoes

Size Class:
14' to Under 15'
Weight:
N/A



Configuration for 420F2

Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$4,640.00	USD \$1,300.00	USD \$325.00	USD \$49.00	USD \$25.16	USD \$51.52
Adjustments						
Region (Arizona: 95.2%)	(USD \$222.72)	(USD \$62.40)	(USD \$15.60)	(USD \$2.35)		
Model Year (2021: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$4,417.28	USD \$1,237.60	USD \$309.40	USD \$46.65	USD \$25.16	USD \$50.26

Non-Active Use Rates

	Hourly
Standby Rate	USD \$12.55
Idling Rate	USD \$36.93

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$1,716.80/mo
Overhaul (ownership)	50%	USD \$2,320.00/mo
CFC (ownership)	3%	USD \$139.20/mo
Indirect (ownership)	10%	USD \$464.00/mo
Fuel (operating) @ USD 3.27	47%	USD \$11.83/hr

Revised Date: 3rd quarter 2021

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for GEOFF WOJTULEWICZ (gwojtulewicz@pcl.com)

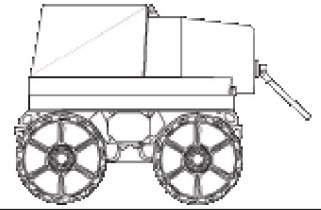
Adjustments for Trench roller 24-33in in All Saved Models

August 9, 2021

BOMAG BMP8500

Trench Compactors

Size Class:
26 - 34 Inch
Weight:
3622 lbs



Configuration for BMP8500

Drum Width **33.5'** Number Of Drums **4.0**
Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$5,360.00	USD \$1,500.00	USD \$375.00	USD \$56.00	USD \$15.15	USD \$45.60
Adjustments						
Region (Arizona: 96.5%)	(USD \$187.60)	(USD \$52.50)	(USD \$13.13)	(USD \$1.96)		
Model Year (2021: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$5,172.40	USD \$1,447.50	USD \$361.88	USD \$54.04	USD \$15.15	USD \$44.54

Non-Active Use Rates

	Hourly
Standby Rate	USD \$12.93
Idling Rate	USD \$31.97

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	33%	USD \$1,768.80/mo
Overhaul (ownership)	56%	USD \$3,001.60/mo
CFC (ownership)	2%	USD \$107.20/mo
Indirect (ownership)	9%	USD \$482.40/mo
Fuel (operating) @ USD 3.27	17%	USD \$2.58/hr

Revised Date: 3rd quarter 2021

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for GEOFF WOJTULEWICZ
(gwojtulewicz@pcl.com)

Adjustments for Rammer gas engine in All Saved Models

August 9, 2021

Multiquip MTX80

Hand Held Rammers

Size Class:
All
Weight:
172 lbs



Configuration for MTX80

Horsepower **3.5** Power Mode **Gasoline**
Shoe Size **13.4' X 11.2'**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$435.00	USD \$120.00	USD \$30.00	USD \$5.00	USD \$2.73	USD \$5.20
Adjustments						
Region (Arizona: 97.9%)	(USD \$9.14)	(USD \$2.52)	(USD \$0.63)	(USD \$0.10)		
Model Year (2021: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$425.86	USD \$117.48	USD \$29.37	USD \$4.89	USD \$2.73	USD \$5.15

Non-Active Use Rates

	Hourly
Standby Rate	USD \$1.60
Idling Rate	USD \$3.36

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	USD \$234.90/mo
Overhaul (ownership)	34%	USD \$147.90/mo
CFC (ownership)	1%	USD \$4.35/mo
Indirect (ownership)	11%	USD \$47.85/mo
Fuel (operating) @ USD 2.97	34%	USD \$0.94/hr

Revised Date: 3rd quarter 2021

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for GEOFF WOJTULEWICZ
(gwojtulewicz@pcl.com)

ATTACHMENT A

The following is a billable hourly rate table for craft labor:

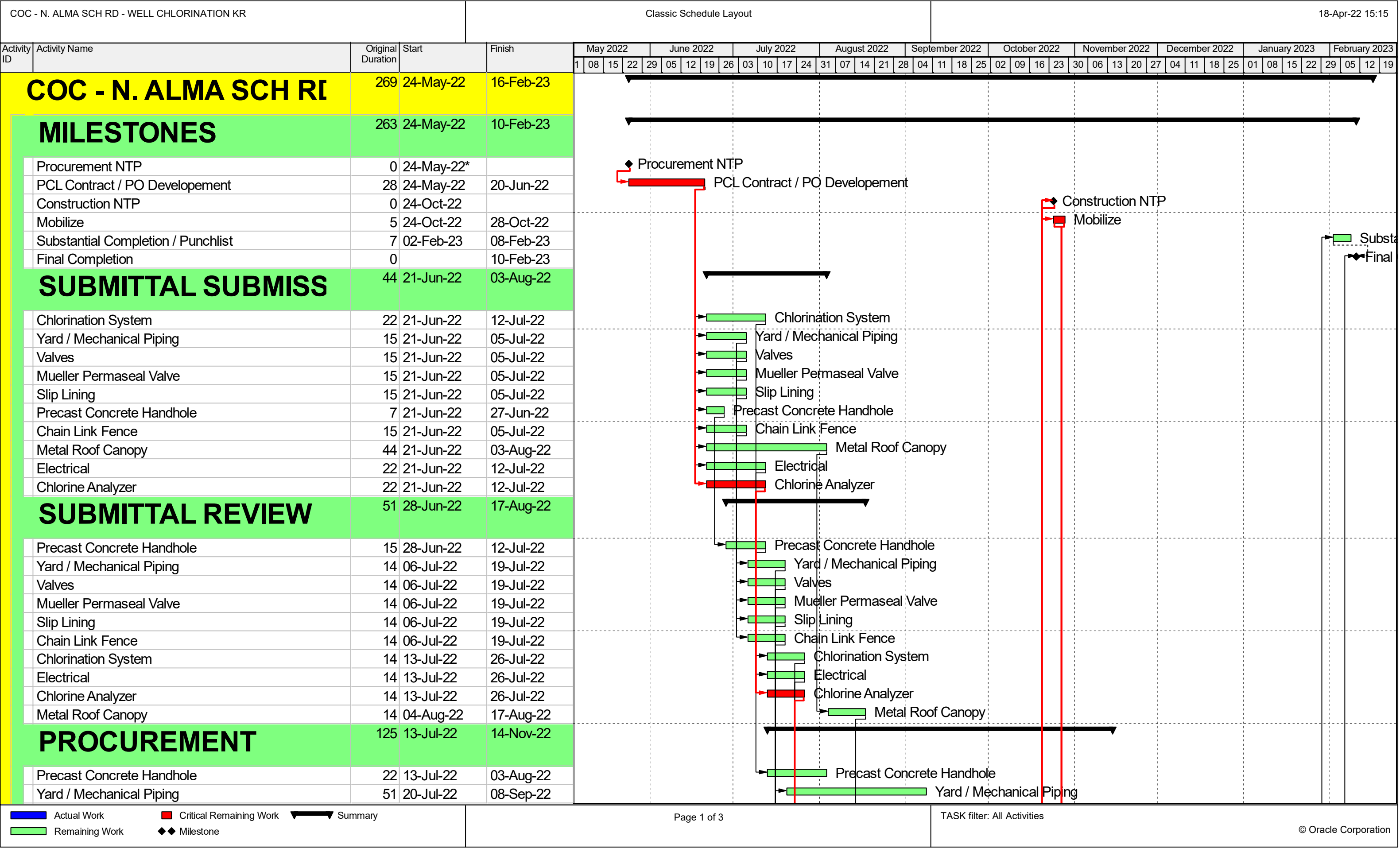
Craft Classification	PCL Standard Rates(\$/hr)
Foreman	\$ 54.32
Skilled Labor	\$ 38.21
Unskilled Labor	\$ 30.45
Operator (Blade, Crane)	\$ 52.78
Operator (Loader)	\$ 41.21
Operator (Excavator)	\$ 49.26
Operator (CDL)	\$ 38.10
Pipe Layer(lead)	\$ 47.52
Pipe Layer(backup)	\$ 41.98
Concrete Finisher	\$ 41.68
Carpenter	\$ 40.53

Billable hourly rates used in this proposal are estimates of projected market conditions at the time work will be performed.

Billable hourly equipment rates shall be the FHWA operated rates published by Bluebook (penton) on equipmentwatch.com

WA2007.401 - NORTH ALMA SCHOOL WELL EQUIPPING

-A-	-B-			-C-	-D-	-E-	-F-	-G-		-H-
Item No.	Description of Work	Unit	Unit Price	Original Schedule Value	Previous Application	This Period	Stored Materials	Total To Date	%	Balance To Finish
	Preconstruction Services									
1	Preconstruction Services	1	LS	5,000	0	0.00	0	0.00	0%	5,000
2	Construction Services									
3	Mobilization	1	LS	7,000	0	0.00	0	0.00	0%	7,000
4	Demolition	1	LS	32,000	0	0.00	0	0.00	0%	32,000
5	Site Work	1	LS	84,000	0	0.00	0	0.00	0%	84,000
6	Yard Piping	1	LS	315,000	0	0.00	0	0.00	0%	315,000
7	Concrete	1	LS	8,000	0	0.00	0	0.00	0%	8,000
8	Checker Plate Ramp	1	LS	1,272	0	0.00	0	0.00	0%	1,272
9	Hose Rack	1	LS	616	0	0.00	0	0.00	0%	616
10	Step Platform	1	LS	4,262	0	0.00	0	0.00	0%	4,262
11	Roof/Canopy	1	LS	13,853	0	0.00	0	0.00	0%	13,853
12	Chain Link Fence	1	LS	15,985	0	0.00	0	0.00	0%	15,985
13	Bollards	1	LS	2,012	0	0.00	0	0.00	0%	2,012
14	Painting	1	LS	15,000	0	0.00	0	0.00	0%	15,000
15	Chlorination System	1	LS	90,000	0	0.00	0	0.00	0%	90,000
16	Electrical	1	LS	80,000	0	0.00	0	0.00	0%	80,000
17	General Conditions	1	LS	165,595	0	0.00	0	0.00	0%	165,595
	Contingencies									
18	CMU Wall Contingency	1	LS	5,000	0	0.00	0	0.00	0%	5,000
19	Pipe Package Escalation	1	LS	10,000	0	0.00	0	0.00	0%	10,000
20	Misc Metals Escalation	1	LS	2,000	0	0.00	0	0.00	0%	2,000
	Allowances									
19	Owner's Allowance	1	LS	80,000	0	0.00	0	0.00	0%	80,000
	TOTALS			936,595	0	0	0	0	0%	936,595



COC - N. ALMA SCH RD - WELL CHLORINATION KR				Classic Schedule Layout												18-Apr-22 15:15																																
Activity ID	Activity Name	Original Duration	Start	Finish	May 2022				June 2022				July 2022				August 2022				September 2022				October 2022				November 2022				December 2022				January 2023				February 2023							
					1	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	05	12	19	
	Valves	87	20-Jul-22	14-Oct-22																																												
	Mueller Permaseal Valve	58	20-Jul-22	15-Sep-22																																												
	Slip Lining	22	20-Jul-22	10-Aug-22																																												
	Chain Link Fence	29	20-Jul-22	17-Aug-22																																												
	Chlorination System	87	27-Jul-22	21-Oct-22																																												
	Electrical	44	27-Jul-22	08-Sep-22																																												
	Chlorine Analyzer	87	27-Jul-22	21-Oct-22																																												
	Metal Roof Canopy	89	18-Aug-22	14-Nov-22																																												
	CONSTRUCTION		109	31-Oct-22	16-Feb-23																																											
	Potholing	2	31-Oct-22	01-Nov-22																																												
	Traffic Control Alma School Road - 12" Abandenmen	15	31-Oct-22	14-Nov-22																																												
	Traffi ControlW. Summit Place - 12" Abandenment	15	31-Oct-22	14-Nov-22																																												
	Traffic Control W. Summit PL New 12" WL (North Side)	28	15-Nov-22	12-Dec-22																																												
	Restore Site / Landscaping	7	03-Feb-23	09-Feb-23																																												
	EXISTING 12" ABANDENMENT		13	02-Nov-22	14-Nov-22																																											
	Demo at Summit PL	1	02-Nov-22	02-Nov-22																																												
	Excavate at Summit PL	1	02-Nov-22	02-Nov-22																																												
	Hydro Ex at Alma School / Shoring	3	02-Nov-22	04-Nov-22																																												
	Existing ACP / Pipe Removal	1	07-Nov-22	07-Nov-22																																												
	Form & Strip / Grout Fill Pipe	2	08-Nov-22	09-Nov-22																																												
	Backfill	1	10-Nov-22	10-Nov-22																																												
	Restore Area - Alma School Rd.	1	14-Nov-22	14-Nov-22																																												
	PRIMUS SLIP LINING		12	14-Nov-22	25-Nov-22																																											
	Waco	12	14-Nov-22	25-Nov-22																																												
	INSERT A VALVE		12	28-Nov-22	09-Dec-22																																											

Activity ID	Activity Name	Original Duration	Start	Finish	May 2022				June 2022				July 2022				August 2022				September 2022				October 2022				November 2022				December 2022				January 2023				February 2023			
					1	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29
	Yard Concrete	3	11-Jan-23	13-Jan-23																																								
	Electrical	14	11-Jan-23	24-Jan-23																																								
	Chlorine Fence / Canopy	5	16-Jan-23	20-Jan-23																																								
	Chlorination System	1	23-Jan-23	23-Jan-23																																								
	Exposed Pipe / Testing	10	24-Jan-23	02-Feb-23																																								
	Painting / Coatings	14	03-Feb-23	16-Feb-23																																								
	START UP / COMMISS	17	25-Jan-23	10-Feb-23																																								
	Functional Testing	3	25-Jan-23	27-Jan-23																																								
	Training	7	25-Jan-23	31-Jan-23																																								
	Operational Testing	3	30-Jan-23	01-Feb-23																																								
Commissioning	9	02-Feb-23	10-Feb-23																																									

EXHIBIT C

PERFORMANCE BOND

ARIZONA STATUTORY PERFORMANCE BOND
PURSUANT TO TITLES 28, 34, AND 41, ARIZONA REVISED STATUTES
(Penalty of this bond must be 100% of the Contract amount)

KNOW ALL MEN BY THESE PRESENTS THAT:

(hereinafter "Principal"), and _____ (hereinafter "Surety"), a corporation organized and existing under the laws of the State of _____ with its principal office in the City of _____, holding a certificate of authority to transact surety business in Arizona issued by the Director of Insurance pursuant to Title 20, Chapter 2, Article 1, as Surety, are held and firmly bound unto _____ (hereinafter "Obligee") in the amount of _____ (Dollars) (\$_____), for the payment whereof, Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the Obligee, dated the _____ day of _____, 20__ for construction of **ALMA SCHOOL WELL SITE IMPROVEMENTS, WA2007.402** which contract is hereby referred to and made a part hereof as fully and to the same extent as if copies at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal faithfully performs and fulfills all the undertakings, covenants, terms, conditions and agreements of the contract during the original term of the contract and any extension of the contract, with or without notice of the Surety, and during the life of any guaranty required under the contract, and also performs and fulfills all the undertakings, covenants, terms, conditions, and agreements of all duly authorized modifications of the contract that may hereafter be made, notice of which modifications to the Surety being hereby waived, the above obligation is void. Otherwise it remains in full force and effect.

PROVIDED, HOWEVER that this bond is executed pursuant to the provisions of Title 34, Chapter 2, Article 2, Arizona Revised Statutes, and all liabilities on this bond will be determined in accordance with the provisions of Title 34, Chapter 2, Article 2, Arizona Revised Statutes, to the same extent as if it were copied at length in this Contract.

The prevailing party in a suit on this bond may recover as part of the judgment reasonable attorney fees that may be fixed by a judge of the court.

Witness our hands this _____ day of _____, 20__.

AGENT OF RECORD

PRINCIPAL SEAL

By _____

SURETY SEAL

AGENT ADDRESS

EXHIBIT D

PAYMENT BOND

ARIZONA STATUTORY PAYMENT BOND
PURSUANT TO TITLES 28, 34, AND 41, OF THE ARIZONA REVISED STATUTES
(Penalty of this Bond must be 100% of the Contract amount)

KNOW ALL MEN BY THESE PRESENTS THAT: _____

(hereinafter "Principal"), as Principal, and _____ (hereinafter "Surety"), a corporation organized and existing under the laws of the State of _____ with its principal office in the City of _____, holding a certificate of authority to transact surety business in Arizona issued by the Director of the Department of Insurance pursuant to Title 20, Chapter 2, Article 1, as Surety, are held and firmly bound unto _____ (hereinafter "Obligee") in the amount of _____ (Dollars) (\$_____), for the payment whereof, the Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the Obligee, dated the _____ day of _____, 20__ for construction of **ALMA SCHOOL WELL SITE IMPROVEMENTS, WA2007.402** which contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal promptly pays all moneys due to all persons supplying labor or materials to the Principal or the Principal's subcontractors in the prosecution of the work provided for in said contract, this obligation is void. Otherwise it remains in full force and effect.

PROVIDED, HOWEVER that this bond is executed pursuant to the provisions of Title 34, Chapter 2, Article 2 Arizona Revised Statutes, and all liabilities on this bond will be determined in accordance with the provisions, conditions and limitations of Title 34, Chapter 2, Article 2, Arizona Revised Statutes, to the same extent as if it were copied at length in this Contract.

The prevailing party in a suit on this bond may recover as part of the judgment reasonable attorney fees that may be fixed by a judge of the court.

Witness our hands this _____ day of _____, 20__.

PRINCIPAL

SEAL

AGENT OF RECORD

By _____

SURETY

SEAL

AGENT ADDRESS

EXHIBIT E

CONTRACTOR'S AFFIDAVIT REGARDING SETTLEMENT OF CLAIMS

_____, Arizona

Date _____

Project Name: **ALMA SCHOOL WELL SITE IMPROVEMENTS**

Project No.: **WA2007.402**

To the City of Chandler, Arizona

Gentlemen:

This is to certify that all lawful claims for materials, rental of equipment and labor used in connection with the construction of the above project, whether by subcontractor or claimant in person, have been duly discharged.

The undersigned, for the consideration of \$_____, as set out in the final pay estimate, as full and complete payment under the terms of the contract, hereby waives and relinquishes any and all further claims or right of lien under, in connection with, or as a result of the above described project. The undersigned further agrees to indemnify and save harmless the City of Chandler against any and all liens, claims or liens, suits, actions, damages, charges and expenses whatsoever, which said City may suffer arising out of the failure of the undersigned to pay for all labor performances and materials furnished for the performance of said installation.

Signed and dated at _____, this _____ day of _____ 20_____.

CONTRACTOR

By _____

STATE OF ARIZONA)
) SS
COUNTY OF MARICOPA)

The foregoing instrument was subscribed and sworn to before me this _____ day of _____ 20_____.

Notary Public

My Commission Expires

EXHIBIT F

CERTIFICATE OF COMPLETION

Project: **ALMA SCHOOL WELL SITE IMPROVEMENTS**
Project No.: **WA2007.402**

(TO BE COMPLETED BY CONTRACTOR)

I HEREBY CERTIFY THAT ALL GOODS AND/OR SERVICES REQUIRED BY CITY OF CHANDLER PROJECT NO. **WA2007.402** HAVE BEEN DELIVERED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND BID SPECIFICATIONS AND ALL ACTIVITIES REQUIRED BY THE CONTRACTOR UNDER THE CONTRACT HAVE BEEN COMPLETED AS OF _____.

(Date)

FIRM NAME: _____

PRINCIPAL: _____

(Name)

(Signature)

(Title) DATE: _____

CERTIFIED BY ENGINEER/CONSULTANT (IF APPLICABLE):

(Signature) DATE: _____

(Firm Name)

PROJECT ACCEPTED BY USER DEPARTMENT

(Signature) DATE: _____

(Dept. /Div.)

Date of Final Walk-Through

Date As-Built Received

City As-Built Number

EXHIBIT G
GIS / GPS DATA DELIVERY REQUIREMENTS

GIS / GPS Data Delivery Requirements

Contractor must provide survey grade GPS / GIS data, meeting the following requirements for all facilities to be owned and/or operated by the City of Chandler.

a) ESRI File Geodatabase format:

All GPS point data, along with corresponding GIS Attribute data, must be submitted in ESRI File Geodatabase format. The City of Chandler will provide a copy of the File Geodatabase in ESRI ArcGIS format. Please submit your request through the Project Manager.

b) Data dictionary and Attribute data:

Attribute data should be provided for each of the GPS'd Utility Feature listed in Section 'd' below. All Attribute data should conform to the ESRI File Geodatabase format, provided by the City. A copy of the data dictionary is also attached here for reference

c) Coordinate System:

Horizontal Datum: Arizona State Plane Coordinates, Central Zone NAD83 (HARN)
Vertical Datum: NAVD88

d) Point Data for GPS:

1) Water System Features:

- Water main location (top of pipe), size and material (one (1) coordinate provided every 100 feet minimum) and at fittings.
- Water fitting location (top of feature), size, material and type including: Bend (22.5, 45, or 90), Tee, Tapping Sleeve, Cross, Coupling, End Cap, Line Stop, Reducer,
- Saddle, Other.
- Water valve location (center of valve box cover), size and type.
- Fire hydrant location (top of hydrant), manufacturer and year.
- Water service line location (at connection to main, any bends, and termination at meter box or meter vault or at the edge of easement or ROW), size and material.
- Water blow-off and air release valve location (center of cover), size, type and manufacturer.
- Water manhole or vault location (center of cover), size and type.

2) Waste Water System Features:

- Sewer manhole and cleanout location (center of cover), size, material, and cover type.
- Sewer gravity main location (invert of pipe), size, material and flow direction (from) at all manholes, cleanouts and structures.
- Sewer service line location, size and material (at connection to main, and termination at cleanout, or stub out at edge of the easement or ROW).
- Sewer force main location (top of pipe), size, and material (one (1) coordinate provided every 100 feet minimum) and at fittings.

- Sewer force main (and gravity) fitting location (top of feature), size, material and type including: Bend (22.5, 45, or 90), Tee, Tapping Sleeve, Cross, Coupling, End Cap, Linestop, Reducer, Saddle, Wye, Other
- Sewer force main valve location (center of valve box cover), size and type.
- Sewer force main air release valve location (center of cover), size, type and manufacturer.
- Sewer force main manhole or vault location (center of cover), size and material.
- Sewer structure (center of structure), type (diversion, junction box)

3) Reclaimed Water System Features:

- Reclaimed main location (top of pipe), size, and material (one (1) coordinate provided every 100 feet minimum) and at fittings.
- Reclaimed fitting location (top of feature), size, material and type including: Bend (22.5, 45, or 90), Tee, Tapping Sleeve, Cross, Coupling, End Cap, Linestop, Reducer, Saddle, Other.
- Reclaimed valve location (center of valve box cover), size and type.
- Reclaimed service line location (at connection to main, any bends, and termination at meter box or meter vault or at the edge of easement or ROW), size and material.
- Reclaimed blow-off and air release valve location (center of cover), size, type and manufacturer.
- Reclaimed manhole or vault location (center of cover), size and type.

4) Storm Water System Features:

- Storm manhole and cleanout location (center of cover), size, material, and cover type.
- Storm gravity main location (invert of pipe), size, material, and flow direction (from) at all manholes, cleanouts and structures.
- Storm structure location (center of structure), type and category including: Drywell, Catch Basin, Scupper, Bubbler Box, and Collection Vault.

5) Standard GPS Metadata on all points collected: Date, Time, Height, Horiz_Precision, Vert_Precision, Northing, Easting, Surveyor, Datafile, and Comments

e) Electronic Data Submittal:

Each submittal must consist of

- 1) ESRI – ArcGIS Geodatabase with cumulative data and attributes, and
- 2) Construction plans with collected utilities clearly redlined and changes marked

The frequency of data submittal will be every two weeks after water, sewer, reclaim or storm assets go into the ground. Submittals can be emailed to: GIS@chandleraz.gov

DATA DICTIONARY
FOR
WATER, SEWER, RECLAIM & STORM

DATA DICTIONARY:

WATER

Water Fitting				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	20	WS_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	20	WS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	20	WS_SPATIALSOURCE_STD
MATERIAL	MATERIAL	String	20	
DIAMETER1	DIAMETER1	String	8	RWS_FITTING_DIAMETER
DIAMETER2	DIAMETER2	String	8	
ROTATION	ROTATION	Double	8	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
GPS_COMMENT	GPS_COMMENT	String	30	
TYPE	TYPE	String	30	WS_FITTING_TYPE
BEND	BEND	String	20	WS_FITTING_BEND

Water Hydrant				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	Feature Owner	String	25	WS_FEATUREOWNER
LIFECYCLESTATUS	Lifecycle Status	String	25	WS_LIFECYCLESTATUS
SPATIALSOURCE	Spatial Source	String	25	WS_SPATIALSOURCE_STD
BARRELDIAMETER	Barrel Diameter	Double	8	
LARGENOZZLEDIAMETER	Large Nozzle Diameter	Double	8	
SMALLNOZZLEDIAMETER	Small Nozzle Diameter	Double	8	
OUTLETCONFIGURATION	Outlet Configuration	Double	8	
SEATDIAMETER	Seat Diameter	Double	8	
MANUFACTURER	Manufacturer	String	25	WS_HYD_MANUFACTURER
YEARMANUFACTURED	Manufacture Year	String	25	
HASLOCK	Has Lock ?	String	25	GIS_BOOLEAN_YES_NO
COLOR	Color	String	25	
ROTATION	Symbol Rotation	Double	8	
GPSOID	GPS ObjectID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	25	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	String	25	
VERT_PREC	VERT_PREC	String	25	
NORTHING	NORTHING	String	25	
EASTING	EASTING	String	25	
DATAFILE	DATAFILE	String	25	
GPS_COMMENT	GPS_COMMENT	String	50	

WATER VALVE				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATURE OWNER	String	20	RWS_SYSVAL_FUNCTION
LIFECYCLESTATUS	LIFECYCLE STATUS	String	20	WS_SYSVAL_LIFECYCLESTATUS
SPATIALSOURCE	SPATIAL SOURCE	String	20	WS_SYSVAL_SPATIALSOURCE
TYPE	TYPE	String	25	RWS_SYSVAL_TYPE
VALVETYPE	VALVE TYPE	String	10	RWS_SYSVAL_VALVETYPE
GROUNDTYPE	GROUNDTYPE	String	25	WS_SYSVAL_GROUNDTYPE
DIAMETER	Diameter	String	8	WS_SYSVAL_DIAM
GPSOID	GPS OBJECTID	Integer	4	
GPS_DATE	GPS DATE	Date	8	
GPS_TIME	GPS TIME	String	10	
GPS_HEIGHT	GPS HEIGHT	Double	8	
HORZ_PREC	HORZ PREC	Double	8	
VERT_PREC	VERT PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
DATAFILE	DATAFILE	String	20	
GPS_COMMENT	GPS COMMENT	String	30	
WO_CAT_CODE	WO CAT CODE	String	10	
WO_CAT	WO CAT	String	25	

WATER MANHOLE				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	20	WS_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	20	WS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	20	WS_SPATIALSOURCE_STD
ACCESSDIAMETER	ACCESSDIAMETER	String	8	
ACCESSTYPE	ACCESSTYPE	String	20	
GROUNDTYPE	GROUNDTYPE	String	20	WS_SYSVAL_GROUNDTYPE
COVERMATERIAL	COVERMATERIAL	String	10	
COVERTYPE	COVERTYPE	String	8	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
DATAFILE	DATAFILE	String	20	
GPS_COMMENT	GPS_COMMENT	String	30	

WATER MISC PNT		This feature is used for any miscellaneous information		
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
DATAFILE	DATAFILE	String	20	
GPS_COMMENT	GPS_COMMENT	String	50	
NOTES	NOTES	String	150	
SIZE	SIZE	Double	8	

Water Domains:

Domain name	WS_LIFECYCLESTATUS
ABANDONED	ABANDONED
ACTIVE	ACTIVE
FUTURE	FUTURE
INACTIVE	INACTIVE
REMOVED	REMOVED
UNKNOWN	UNKNOWN
Domain name	WS_SYSVAL_SPATIALSOURCE
APPROVED PLANS	APPROVED PLANS
ASBUILT	ASBUILT
DESIGN	DESIGN
GPS	GPS
HYDRMAINT	HYDRMAINT
ORTHOPHOTO	ORTHOPHOTO
TM7	TM7
UNKNOWN	UNKNOWN
Domain name	WS_HYD_MANUFACTURER
AMERICANDARLING	AMERICANDARLING
AVK	AVK
CLOW	CLOW
DRESSER	DRESSER
GREENBERG	GREENBERG
KENNEDY	KENNEDY
MUELLER	MUELLER
PACIFIC	PACIFIC
UNKNOWN	UNKNOWN
WATEROUS	WATEROUS

Domain name	WS_FEATUREOWNER
COC	Chandler
COG	Gilbert
COM	Mesa
COP	Phoenix
COT	Tempe
COUNTY	Maricopa County
GOULD	Gould
GRIC	GRIC
INTEL	Intel
MICROCHIP	Microchip
MOTOROLA	Motorola
PRIVATE	Private
SRP	SRP
SRVWUA	SRVWUA
UNKNOWN	UNKNOWN

Domain name	WS_SYSVAL_LIFECYCLESTATUS
FUTURE	FUTURE
UNKNOWN	UNKNOWN
INACTIVE	INACTIVE
ACTIVE	ACTIVE
REMOVED	REMOVED
ABANDONED	ABANDONED

Domain name	WS_FITTING_BEND
HORIZONTAL	HORIZONTAL
VERTICAL	VERTICAL
Domain name	WS_SYSVAL_DIAM
2	2
3	3
4	4
6	6
8	8
10	10
12	12
16	16
20	20
24	24
30	30
36	36
42	42
48	48
54	54

Domain name	WS_FITTING_TYPE
11B	11B
22B	22B
45B	45B
90B	90B
COUPLING	COUPLING
CROSS	CROSS
ENDCAP	ENDCAP
LINESTOP	LINESTOP
OTHER	OTHER
REDUCER	REDUCER
SADDLE	SADDLE
TAPPING SLEEVE	TAPPING SLEEVE
TEE	TEE
UNKNOWN	UNKNOWN
WYE	WYE
Domain name	WS_SYSVAL_GROUNDTYPE
CONCRETE	CONCRETE
ASPHALT	ASPHALT
LANDSCAPE	LANDSCAPE
UNKNOWN	UNKNOWN
Domain name	WS_SPATIALSOURCE_STD
ASBUILT	ASBUILT
DESIGN	DESIGN
FIELD	FIELD
GPS	GPS
ORTHOPHOTO	ORTHOPHOTO
UNKNOWN	UNKNOWN

DATA DICTIONARY:

SEWER

SEWER CLEANOUT				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	20	WW_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	20	WW_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	20	WW_SPATIALSOURCE
RIM_ELEV	RIM_ELEV	Double	8	
INV_ELEV	INV_ELEV	Double	8	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
DATAFILE	DATAFILE	String	20	
GPS_COMMENT	GPS_COMMENT	String	30	

SEWER CONTROL VALVE				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
TYPE	TYPE	String	25	
FEATUREOWNER	FEATUREOWNER	String	20	WW_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	20	WW_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	20	WW_SPATIALSOURCE
DIAMETER	DIAMETER	String	8	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
DATAFILE	DATAFILE	String	20	
GPS_COMMENT	GPS_COMMENT	String	30	

SEWER_FITTING				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	20	WW_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	20	WW_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	20	WW_SPATIALSOURCE
MATERIAL	MATERIAL TYPE	String	20	
TYPE	TYPE	String	30	
BEND	BEND	String	20	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
DATAFILE	DATAFILE	String	20	
GPS_COMMENT	GPS_COMMENT	String	30	
SIZE_	SIZE OF FITTING	String	20	

SEWER_MANHOLE				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	25	WW_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	25	WW_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	20	WW_SPATIALSOURCE
LID	LID TYPE	String	20	
TYPE	TYPE	String	20	WW_MH_TYPE
COVER_MATERIAL	COVER_MATERIAL	String	25	WW_MH_COVER_MATERIAL
COVER_HOLE	COVER_HOLE	String	25	WW_MH_COVER_HOLE
COVER_SIZE	COVER_SIZE	String	20	WW_MH_COVER_SIZE
RIM_ELEV	RIM_ELEV	Double	8	
INV_ELEV	INV_ELEV	Double	8	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
DATAFILE	DATAFILE	String	20	
GPS_COMMENT	GPS_COMMENT	String	30	
LINER	LINER	String	50	WW_MH_LINER
WALL_MATERIAL	WALL_MATERIAL	String	50	WW_MH_WALL_MATERIAL

SEWER_MISC		For any Miscellaneous features		
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
SPATIALSOURCE	SPATIALSOURCE	String	20	
MATERIAL	MATERIAL	String	20	
TYPE	TYPE	String	30	
BEND	BEND	String	20	
NOTES	NOTES	String	255	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
DATAFILE	DATAFILE	String	20	
GPS_COMMENT	GPS_COMMENT	String	30	
SIZE_	SIZE_	String	20	

Sewer Domains:

Domain name	WW_FEATUREOWNER
COC	COC
PRIVATE	PRIVATE
TOG	TOG
UNKNOWN	UNKNOWN
Domain name	WW_SPATIALSOURCE
GPS	GPS
ASBUILT	ASBUILT
UNKNOWN	UNKNOWN
Domain name	WW_MH_COVER_HOLE
UNKNOWN	UNKNOWN
SEALED	SEALED
Domain name	WW_MH_LINER
CAST-IN-PLACE	CAST-IN-PLACE
CEMENTITIOUS	CEMENTITIOUS
COMPOSITE	COMPOSITE
CURED-IN-PLACE	CURED-IN-PLACE
EPOXY	EPOXY
FR PLASTIC INSERT	FR PLASTIC INSERT
FR POLYMER INSERT	FR POLYMER INSERT
INSERT	INSERT
UNKNOWN	UNKNOWN
Domain name	WW_LIFECYCLESTATUS
ABANDONED	ABANDONED
ACTIVE	ACTIVE
INACTIVE	INACTIVE
PULLED	PULLED
UNKNOWN	UNKNOWN

Domain name	WW_MH_COVER_MATERIAL
ALUMINUM	ALUMINUM
CASTIRON	CASTIRON
HDPE COMPOSITE - CAP	HDPE COMPOSITE - CAP
HDPE COMPOSITE - EJ	HDPE COMPOSITE - EJ
HDPE COMPOSITE - HD20	HDPE COMPOSITE - HD20
STEEL	STEEL
UNKNOWN	UNKNOWN
Domain name	WW_MH_COVER_SIZE
0	Unknown
4	4
6	6
8	8
22	22
24	24
26	26
28	28
30	30
32	32
38	38
48	48
60	60
Domain name	WW_MH_WALL_MATERIAL
NONE	NONE
COMPOSITE	COMPOSITE
UNKNOWN	UNKNOWN
CONCRETE	CONCRETE
POURED	POURED
TLOCK	TLOCK
PRECAST	PRECAST
BRICK	BRICK

Domain name	WW_MH_TYPE
0	UNKNOWN
1	SANITARY SEWER
2	ARV

DATA DICTIONARY: RECLAIM

RECLAIM_FITTING				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	20	RWS_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	20	RWS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	20	RWS_SPATIALSOURCE
MATERIAL	MATERIAL	String	20	RWS_MAIN_OR_SERVICE_MATERIAL
DIAMETER1	DIAMETER1	String	8	RWS_FITTING_DIAMETER
DIAMETER2	DIAMETER2	String	8	RWS_FITTING_DIAMETER
TYPE	TYPE	String	30	RWS_FITTING_TYPE
BEND	BEND	String	20	RWS_FITTING_BEND
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
GPS_COMMENT	GPS_COMMENT	String	30	

RECLAIM_MISC_STRUCT				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
TYPE	SUBTYPE	String	20	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
GPS_COMMENT	GPS_COMMENT	String	50	
NOTES	Notes	String	150	

RECLAIM_MANHOLE				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	20	RWS_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	20	RWS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	20	RWS_SPATIALSOURCE
ACCESSDIAMETER	ACCESSDIAMETER	String	8	RWS_GROUNDTYPE
GROUNDTYPE	GROUNDTYPE	String	20	
COVERMATERIAL	COVERMATERIAL	String	10	
COVERTYPE	COVERTYPE	String	8	
GPSOID	GPSOID	Integer	4	
GPS_DATE	GPS_DATE	Date	8	
GPS_TIME	GPS_TIME	String	10	
GPS_HEIGHT	GPS_HEIGHT	Double	8	
HORZ_PREC	HORZ_PREC	Double	8	
VERT_PREC	VERT_PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
GPS_COMMENT	GPS_COMMENT	String	30	

RECLAIM SYSTEM VALVE				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATURE OWNER	String	20	RWS_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLE STATUS	String	20	RWS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIAL SOURCE	String	20	RWS_SPATIALSOURCE
TYPE	TYPE	String	25	RWS_SYSVAL_TYPE
VALVETYPE	VALVE TYPE	String	10	RWS_SYSVAL_VALVETYPE
FUNCTION	FUNCTION	String	25	RWS_SYSVAL_FUNCTION
GROUNDTYPE	GROUNDTYPE	String	25	RWS_SYSVAL_GROUNDTYPE
GPSOID	GPS OBJECTID	Integer	4	
GPS_DATE	GPS DATE	Date	8	
GPS_TIME	GPS TIME	String	10	
GPS_HEIGHT	GPS HEIGHT	Double	8	
HORZ_PREC	HORZ PREC	Double	8	
VERT_PREC	VERT PREC	Double	8	
NORTHING	NORTHING	Double	8	
EASTING	EASTING	Double	8	
GPS_COMMENT	GPS COMMENT	String	30	
WO_ZONE	WO ZONE	Double	8	
DIAMETER	DIAMETER	Double	8	RWS_SYSVAL_DIAM
WO_CAT_CODE	WO_CAT_CODE	String	10	

Reclaim Domains:

Domain name	RWS_SYSVAL_VALVETYPE
BALL	BALL
BUTTERFLY	BUTTERFLY
GATE	GATE
INSERTA	INSERTA
UNKNOWN	UNKNOWN
Domain name	RWS_SYSVAL_FUNCTION
ARV	ARV
INLINE	INLINE
PUMPOUT	PUMPOUT
PUMPSTATION	PUMPSTATION
SERVICE	SERVICE
STUBOUT	STUBOUT
UNKNOWN	UNKNOWN
VAULT	VAULT
Domain name	RWS_SYSVAL_TYPE
ARV	ARV
BLOWOFF	BLOWOFF
STANDARD	STANDARD
Domain name	RWS_FEATUREOWNER
COC	CHANDLER
COM	MESA
INTEL	INTEL
OCA	OCA
OMG	OMG
PRIVATE	PRIVATE
SRP	SRP
TOG	GILBERT
UNKNOWN	UNKNOWN

Domain name	RWS_FITTING_BEND
HORIZONTAL	HORIZONTAL
VERTICAL	VERTICAL
Domain name	RWS_MAIN_OR_SERVICE_MATERIAL
AC	AC
CC	CC
CI	CI
CU	COPPER
DI	DI
PVC	PVC
UNKNOWN	UNKNOWN
Domain name	RWS_FITTING_TYPE
11B	11B
22B	22B
45B	45B
90B	90B
COUPLING	COUPLING
CROSS	CROSS
ENDCAP	ENDCAP
LINESTOP	LINESTOP
MECHANICAL JOINT	MECHANICAL JOINT
OTHER	OTHER
RECHARGE WELL	RECHARGE WELL
REDUCER	REDUCER
SADDLE	SADDLE
TAPPING SLEEVE	TAPPING SLEEVE
TEE	TEE
UNKNOWN	UNKNOWN
WYE	WYE

Domain name	RWS_SPATIALSOURCE
ASBUILT	ASBUILT
FIELD	FIELD
GPS	GPS
ORTHOPHOTO	ORTHOPHOTO
UNKNOWN	UNKNOWN
Domain name	RWS_LIFECYCLESTATUS
ABANDONED	ABANDONED
ACTIVE	ACTIVE
INACTIVE	INACTIVE
REMOVED	REMOVED
UNKNOWN	UNKNOWN
Domain name	RWS_SYSVAL_DIAM
1.5	1.5
2	2
3	3
4	4
6	6
8	8
10	10
12	12
16	16
20	20
24	24
30	30
36	36
42	42
48	48
9999	UNKNOWN

Domain name	RWS_GROUNDTYPE
ASPHALT	ASPHALT
CONCRETE	CONCRETE
DIRT	DIRT
UNKNOWN	UNKNOWN

Domain name	RWS_SYSVAL_GROUNDTYPE
ASPHALT	ASPHALT
CONCRETE	CONCRETE
LANDSCAPE	LANDSCAPE
UNKNOWN	UNKNOWN

Domain name	RWS_FITTING_DIAMETER
0.63	0.63
0.75	0.75
1	1
1.25	1.25
1.5	1.5
2	2
2.5	2.5
3	3
4	4
6	6
8	8
10	10
12	12
15	15
16	16
18	18
20	20
24	24
30	30
36	36
42	42
48	48

DATA DICTIONARY:

STORM

SWS_DRAIN_MANHOLE				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	25	SWS_FEATUREOWNER_1
LIFECYCLESTATUS	LIFECYCLESTATUS	String	25	SWS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	25	SWS_SPATIALSOURCE
STRUCTURE_TYPE	STRUCTURE_TYPE	SmallInteger	2	SWS_STRUCTURE_TYPE
CHANDLER_NAME	CHANDLER_NAME_ON_LID	String	5	GIS_BOOLEAN_YES_NO
DIAMETER	DIAMETER	SmallInteger	2	SWS_SDMH_SIZE
VENT_HOLE	VENT_HOLE	String	30	GIS_BOOLEAN_YES_NO
ACCESS_OPENING_TYPE	ACCESS_OPENING_TYPE	String	25	SWS_SDMH_ACCESS_OPENING_TYPE
LID_TYPE	LID_TYPE	String	30	SWS_SDMH_TYPE
LID_TEXT	LID_TEXT	String	30	SWS_SDMH_LID_TEXT
COMMENTS	COMMENTS	String	255	
COLLECTED_DATE	COLLECTED_DATE	Date	8	

SWS_BUBBLER_BOX				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	25	SWS_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	25	SWS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	25	SWS_SPATIALSOURCE
GRATE_OPENINGS_NUM	GRATE_OPENINGS_NUM	SmallInteger	2	SWS_GRATE_OPENINGS
GRATE_LENGTH	GRATE_LENGTH	Double	8	SWS_GRATE_LENGTH
GRATE_WIDTH	GRATE_WIDTH	Double	8	SWS_GRATE_WIDTH
DRYWELL_ASSOC	DRYWELL_ASSOC	String	5	GIS_BOOLEAN_YES_NO
GPSX	GPSX	Double	8	
GPSY	GPSY	Double	8	
COMMENTS	COMMENTS	String	255	
COLLECTED_DATE	COLLECTED_DATE	Date	8	
NOTES	NOTES	String	50	

SWS_CATCHBASIN				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	25	SWS_FEATUREOWNER
LIFECYCLESTATUS	LIFECYCLESTATUS	String	25	SWS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	25	SWS_LIFECYCLESTATUS
STRUCTURE_TYPE	STRUCTURE_TYPE	SmallInteger	2	SWS_STRUCTURE_TYPE
CATCHBASIN_TYPE	CATCHBASIN_TYPE	String	25	SWS_CB_TYPE
LOCATION	LOCATION	String	100	
CITY_EMBLEM	CITY_EMBLEM	String	5	GIS_BOOLEAN_YES_NO
ACCESS_OPENING_TYPE	ACCESS_OPENING_TYPE	String	25	SWS_CB_ACCESS_OPENING_TYPE
GRATE_LENGTH	GRATE_LENGTH	Double	8	SWS_GRATE_LENGTH
GRATE_WIDTH	GRATE_WIDTH	Double	8	SWS_GRATE_WIDTH
LID	LID	String	5	GIS_BOOLEAN_YES_NO
LID_TYPE	LID_TYPE	String	25	SWS_CB_LID_TYPE
DRYWELL_CONN	DRYWELL_CONN	String	5	GIS_BOOLEAN_YES_NO
OUTLET_CONN	OUTLET_CONN	String	5	GIS_BOOLEAN_YES_NO
BUBBLERBOX_CONN	BUBBLERBOX_CONN	String	5	GIS_BOOLEAN_YES_NO
BUBBLERBOX_DRYWELL_ASSOC	BUBBLERBOX_DRYWELL_ASSOC	String	5	GIS_BOOLEAN_YES_NO
LAKE_DRAIN	LAKE_DRAIN	String	5	GIS_BOOLEAN_YES_NO
GPSX	GPSX	Double	8	
GPSY	GPSY	Double	8	
COMMENTS	COMMENTS	String	255	
COLLECTED_DATE	COLLECTED_DATE	Date	8	
NOTES	NOTES	String	50	

SWS_DRYWELL_PNT				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
Shape	Shape	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	25	SWS_FEATUREOWNER_1
LIFECYCLESTATUS	LIFECYCLESTATUS	String	25	SWS_LIFECYCLESTATUS_1
SPATIALSOURCE	SPATIALSOURCE	String	25	SWS_SPATIALSOURCE_1
FIELD_LOC	FIELD_LOC	String	100	SWS_DW_LOCATION
INSTALLER	INSTALLER	String	30	SWS_DW_INSTALLER
CHAMBER_TYPE	CHAMBER_TYPE	String	30	SWS_DW_CHAMBER_TYPE
LID_SIZE	LID_SIZE	SmallInteger	2	SWS_DW_LID_SIZE
LID_TYPE	LID_TYPE	String	25	SWS_DW_LID_TYPE
NUISANCE_LINE_ASSOC	NUISANCE_LINE_ASSOC	String	5	GIS_BOOLEAN_YES_NO
CONCRETE_PAD	CONCRETE_PAD	String	5	GIS_BOOLEAN_YES_NO
COMMENTS	COMMENTS	String	255	
COLLECTED_DATE	COLLECTED_DATE	Date	8	

SWS_INLET_PNT				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
Shape	Shape	Geometry	0	
CATCHBASIN_TYPE	CATCHBASIN_TYPE	String	25	SWS_CB_TYPE
FEATUREOWNER	FEATUREOWNER	String	25	SWS_FEATUREOWNER_1
LIFECYCLESTATUS	LIFECYCLESTATUS	String	25	SWS_LIFECYCLESTATUS_1
SPATIALSOURCE	SPATIALSOURCE	String	25	SWS_SPATIALSOURCE_1
FIELD_LOC	FIELD_LOC	String	100	SWS_FIELD_LOC
GRATE_ASSOC	GRATE_ASSOC	String	25	GIS_BOOLEAN_YES_NO
GRATE_LENGTH	GRATE_LENGTH	Double	8	SWS_GRATE_LENGTH
GRATE_WIDTH	GRATE_WIDTH	Double	8	SWS_GRATE_WIDTH
INLET_PIPE_DIAM	INLET_PIPE_DIAM	SmallInteger	2	SWS_INLET_PIPE_DIAM
INLET_NUMBER	NUMBER_OF_INLETS	SmallInteger	2	
TRASHRACK_ASSOC	TRASHRACK_ASSOC	String	5	GIS_BOOLEAN_YES_NO
TRASH_LENGTH	TRASH_LENGTH	Double	8	
TRASH_WIDTH	TRASH_WIDTH	Double	8	
NUISANCE_LINE_ASSOC	NUISANCE_LINE_ASSOC	String	5	GIS_BOOLEAN_YES_NO
BUBBLER_BOX_DRYWELL_ASSOC	BUBBLER_BOX_DRYWELL_ASSOC	String	5	GIS_BOOLEAN_YES_NO
HEADWALLASSOC	HEADWALLASSOC	String	5	GIS_BOOLEAN_YES_NO
COMMENTS	COMMENTS	String	255	
COLLECTED_DATE	COLLECTED_DATE	Date	8	

SWS_OUTLET_PNT				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	25	SWS_FEATUREOWNER_1
LIFECYCLESTATUS	LIFECYCLESTATUS	String	25	SWS_LIFECYCLESTATUS
SPATIALSOURCE	SPATIALSOURCE	String	25	SWS_SPATIALSOURCE_1
GRATE_ASSOC	GRATE_ASSOC	String	25	GIS_BOOLEAN_YES_NO
GRATE_LENGTH	GRATE_LENGTH	Double	8	SWS_GRATE_LENGTH
GRATE_WIDTH	GRATE_WIDTH	Double	8	SWS_GRATE_WIDTH
INLET_PIPE_DIAM	INLET_PIPE_DIAM	SmallInteger	2	SWS_INLET_PIPE_DIAM
INLET_NUMBER	NUMBER_OF_INLETS	SmallInteger	2	
TRASHRACK_ASSOC	TRASHRACK_ASSOC	String	5	GIS_BOOLEAN_YES_NO
TRASH_LENGTH	TRASH_LENGTH	Double	8	
TRASH_WIDTH	TRASH_WIDTH	Double	8	
NUISANCE_LINE_ASSOC	NUISANCE_LINE_ASSOC	String	5	GIS_BOOLEAN_YES_NO
BUBBLER_BOX_DRYWELL_ASSOC	BUBBLER_BOX_DRYWELL_ASSOC	String	5	GIS_BOOLEAN_YES_NO
HEADWALLASSOC	HEADWALLASSOC	String	5	GIS_BOOLEAN_YES_NO
COMMENTS	COMMENTS	String	255	
COLLECTED_DATE	COLLECTED_DATE	Date	8	

SWS_SCUPPER_PNT				
Field Name	Alias Name	Type	Length	Domain
OBJECTID	OBJECTID	OID	4	
SHAPE	SHAPE	Geometry	0	
FEATUREOWNER	FEATUREOWNER	String	25	SWS_FEATUREOWNER_1
LIFECYCLESTATUS	LIFECYCLESTATUS	String	25	SWS_LIFECYCLESTATUS_1
SPATIALSOURCE	SPATIALSOURCE	String	25	
CITY_EMBLEM	CITY_EMBLEM	String	5	GIS_BOOLEAN_YES_NO
NUMBER_OPENINGS	NUMBER_OPENINGS	SmallInteger	2	
WIDTH	WIDTH	Double	8	
SPILLWAY_ASSOC	SPILLWAY_ASSOC	String	25	GIS_BOOLEAN_YES_NO
HEADWALL_ASSOC	HEADWALL_ASSOC	String	5	GIS_BOOLEAN_YES_NO
NUISANCE_LINE_ASSOC	NUISANCE_LINE_ASSOC	String	5	GIS_BOOLEAN_YES_NO
BUBBLERBOX_ASSOC	BUBBLERBOX_ASSOC	String	5	GIS_BOOLEAN_YES_NO
BUBBLER_BOX_DRYWELL_ASSOC	BUBBLER_BOX_DRYWELL_ASSOC	String	5	GIS_BOOLEAN_YES_NO
LAKE_DRAIN	LAKE_DRAIN	String	5	GIS_BOOLEAN_YES_NO
RIPRAP	RIPRAP	String	25	GIS_BOOLEAN_YES_NO
COMMENTS	COMMENTS	String	255	
COLLECTED_DATE	COLLECTED_DATE	Date	8	

Sewer Domains:

Domain name	SWS_DW_LOCATION
AIRPORT	AIRPORT
CITYRETENTION	CITY RETENTION
PARK	PARK
PARKING_LOT	PARKING LOT
PRIVATERETENTION	PRIVATE RETENTION
STREET	STREET
WELL_SITE	WELL SITE
Domain name	SWS_GRATE_LENGTH
12	12
24	24
28	28
30	30
36	36
38	38
40	40
50	50
60	60
76	76
Domain name	SWS_CB_LID_TYPE
STEEL	STEEL
CONCRETE	CONCRETE
Domain name	SWS_DW_CHAMBER_TYPE
DOUBLE	DOUBLE
SINGLE	SINGLE
TRIPLE	TRIPLE

Domain name	SWS_LIFECYCLESTATUS_1
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ABANDONED	ABANDONED
ACTIVE	ACTIVE
INACTIVE	INACTIVE
REMOVED	REMOVED
Domain name	SWS_GRATE_OPENINGS
1	1
2	2
3	3
4	4
5	5
6	6
Domain name	SWS_SPATIALSOURCE_1
FIELD	FIELD
GPS	GPS
Domain name	SWS_SPATIALSOURCE
APPROVED_PLANS	APPROVED_PLANS
ASBUILT	ASBUILT
DESIGN	DESIGN
FIELD	FIELD
GPS	GPS
ORTHOPHOTO	ORTHOPHOTO
UNKNOWN	UNKNOWN

Domain name	SWS_SDMH_SIZE
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22	22
24	24
26	26
28	28
30	30
32	32
38	38
Domain name	GIS_BOOLEAN_YES_NO
YES	YES
NO	NO
Domain name	SWS_DW_LID_SIZE
22	22
24	24
25	25
26	26
32	32
38	38
Domain name	SWS_STRUCTURE_TYPE
1	CATCH BASIN
2	SCUPPER
3	DRYWELL
4	MANHOLE
5	OUTLET
6	INLET
7	BUBBLERBOX
8	SPILLWAY
9	SEPARATOR

	SWS_CB_ACCESS_OPENING_TYPE
NONE	NONE
RECTANGULAR	RECTANGULAR
ROUND	ROUND
SQUARE	SQUARE
Domain name	SWS_FEATUREOWNER_1
ADOT	ADOT
CITY_OF_CHANDLER	CITY_OF_CHANDLER
HOA	HOA
PRIVATE	PRIVATE
Domain name	SWS_LIFECYCLESTATUS
ACTIVE	ACTIVE
FUTURE	FUTURE
REMOVED	REMOVED
INACTIVE	INACTIVE
ABANDONED	ABANDONED
Domain name	SWS_FEATUREOWNER
ADOT	ADOT
CITY_OF_CHANDLER	CITY_OF_CHANDLER
HOA	HOA
OTHER	OTHER

Domain name	
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Domain name	SWS_SDMH_LID_TEXT
CHANDLER_SANITATION_SEWER	CHANDLER SANITATION SEWER
CHANDLER_STORM/SEWER	CHANDLER STORM/SEWER
NONE	NONE
OTHER	OTHER
STORM SEWER	STORM SEWER
Domain name	SWS_DW_INSTALLER
McGUCKINDRILLING	McGUCKIN DRILLING
OTHER	OTHER
TORRENTRESOURCES	TORRENT RESOURCES
WACODRILLING	WACO DRILLING
Domain name	SWS_GRATE_WIDTH
6	6
12	12
16	16
18	18
24	24
28	28
30	30
36	36
38	38
44	44
72	72
Domain name	SWS_SDMH_ACCESS_OPENING_TYPE
NONE	NONE
RECTANGULAR	RECTANGULAR
ROUND	ROUND
SQUARE	SQUARE

Domain name	SWS_FIELD_LOC
AIRPOR	AIRPORT
CTYRTN	CITYRETENTION
Domain name	SWS_CB_TYPE
NONE	NONE
PARK	PARK
PRKLOT	PARKING_LOT
PVRET	PRIVATERETENTION
STREET	STREET
TYPE_A	TYPE_A
TYPE_B	TYPE_B
TYPE_C	TYPE_C
TYPE_D	TYPE_D
TYPE_E	TYPE_E
TYPE_F	TYPE_F
TYPE_G	TYPE_G
TYPE_H	TYPE_H
TYPE_Q	TYPE_Q
WELLSI	WELL_SITE
Domain name	SWS_INLET_PIPE_DIAM
12	12
13	13
14	14
15	15
16	16
18	18
24	24
26	26
30	30
36	36
42	42
46	46
60	60
72	72

Domain name	SWS_SDMH_TYPE
PRESSURIZED	PRESSURIZED
NON-PRESSURIZED	NON-PRESSURIZED
Domain name	SWS_DW_LID_TYPE
STEEL	STEEL
GRANITE	GRANITE
CONCRETE_SEALED	CONCRETE_SEALED
GRATE	GRATE