

CITY OF CHANDLER
CHANGE ORDER NO. 2
DATE 5/23/22

Change Order not valid until signed by both the City and the Contractor. Contractor's signature indicates agreement herewith, including any adjustments in the Contract Price or Contract Time.

Project Name: **Chandler Heights Road Utility Relocations – GMP 3**
Project No.: **WW2111.401**
User Dept.: **PW&U** NTP Date: **3/28/2022**

TO: Achen-Gardner Construction, LLC 550 S. 79th St. Chandler, AZ 85226
(CONTRACTOR) (Address)

Contractor must make the following changes to this contract: (Detail scope change (Exh. A) / cost breakdown (Exh. B), if needed)

The following contract Change Order represents the GMP for the Phase III of the Chandler Heights Road Utility Relocations as presented in Exhibit D for the proposed work along Alma School Road from Lake Drive to Chandler Heights Road, and along Chandler Heights Road from Alma School Road to east of Arizona Avenue, west of the railroad. The contract time will also be extended an additional 150 calendar days to allow the contractor to perform this portion of the work.

OWNER NAME & DATE APPROVAL: Kim Moon 5/24/2022

Changes result in the following revised contract amount and time:

Original contract amount:	\$1,371,579.28
Current contract amount, prior to this Change Order: (incl. previous Change Orders)	\$4,768,519.68
Net change resulting from this Change Order: (if over \$50,000 from contract amount previously approved by Council, Council approval is required)	\$12,791,222.90
Revised contract amount, including this Change Order:	\$17,559,742.58
Last contract amount approved by Council:	\$4,768,519.68
Change Order % of last contract amount approved by Council: (if over 10% of previous contract amount approved by Council, Council approval is required)	268%

Contract time or completion date prior to this Change Order: (incl. previous Change Orders)

140 or _____
Days Date

Net change resulting from this Change Order:

150
Days

Revised contract time OR completion date:

290 or _____
Days Date

SIGNATURE PAGE TO FOLLOW

THE ABOVE IS AGREED TO BY:

"CITY" CITY OF CHANDLER

MAYOR

RECOMMENDED BY:



Kimberly Moon, P.E.
CIP City Engineer

APPROVED AS TO FORM:

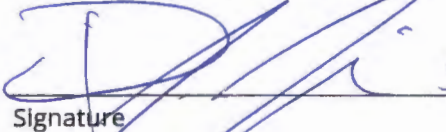
City Attorney 

ATTEST:

City Clerk Seal

"CONTRACTOR"

Achen-Gardner Construction, LLC

 5-26-2022
Signature Date

Daniel J Spitz

Print Name

President

Title

dspitza@achen.com

Signer Email Address

C: Owner / Project Mgr



EXHIBIT D: GMP PROPOSAL FOR CITY OF CHANDLER - CHANDLER HEIGHTS ROAD UTILITY
RELOCATIONS (ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD) CMAR PROJECT

May 20, 2022

City of Chandler
Mr. Paul Ahlas
215 E. Buffalo Street
Chandler, Arizona 85224

City of Chandler Project No.: WW2111.401
Achen-Gardner Construction, LLC Project No.: 3938103

Dear Mr. Ahlas:

Attached please find Achen-Gardner Construction, LLC's ("Achen-Gardner") GMP Proposal ("Proposal") including Schedule of Values (SOV) for installation of 6", 8", 12" & 16" water lines and 8" & 12" sewer.

This GMP Proposal total for the Direct Cost and markups is \$10,659,352.42 (excluding Owner Allowance (Item 10700) or \$2,131,870.48). Achen-Gardner does not guarantee the Owner Allowance amount.

Should you have any questions and/or comments, please feel free to contact me Lat (480) 403-9399 or e-mail dbroderick@achen.com.

Sincerely,
ACHEN-GARDNER CONSTRUCTION, LLC

Dan Broderick, Sr. Project Manager

Attachments

INDEX OF EXHIBITS

MAY 20, 2022

**CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
PROJECT NO: WW2111.401**

Exhibit D1:	Scope of Work
Exhibit D2:	Cost Model Form
Exhibit D3:	Schedule of Values
Exhibit D4:	List of GMP Documents
Exhibit D5	Clarifications and Assumptions
Exhibit D6:	Subcontractor and Supplier Solicitation Documentation, Award Recommendations and Quotes
Exhibit D7:	Baseline Project Schedule

EXHIBIT D1: SCOPE OF WORK

MAY 20, 2022

**CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
PROJECT NO: WW2111.401**

The overall project scope includes the relocation of existing City- owned wastewater, reclaimed water and potable water pipes to clear an alignment for a proposed SRP undergrounding of a 230-Kilowatt transmission system. These relocations will occur on Chaparral Way (Dobson Road to Lake Drive) - Package no. 1, on Lake Drive (Chaparral to Alma School) - Package no. 2, on Alma School Road (Lake Drive to Chandler Heights Road) and Chandler Heights (Alma School Road to the Union Pacific Railroad) - Package 3, then work on Chandler Heights east of the Union Pacific Railroad - Package 4.

The Package 3 GMP project scope on Alma School Road/Chandler Heights Road includes the installations of approximately: (266 LF of 6"/1448 LF of 8"/89 LF of 12"/197 LF of 16") waterlines with valves and fittings, (327 LF of 8"/798 LF of 12") reclaimed water with valves and fitting and (48 LF of 8"/1694 LF of 12") sewer with nine new Polymer manholes. The replacement of existing concrete and asphalt surfaces due to the construction are included.

EXHIBIT D2: COST MODEL FORM

MAY 20, 2022

**CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
PROJECT NO: WW2111.401**

Page 1 of 2

EXHIBIT D2					
CM@RISK GMP SUMMARY					
					Date: 20-May-22
Project Name:		Chandler Heights Road Utility Relocations			
Project Location:		Alma School/Chandler Heights			
City of Chandler Project No.:		WW2111.401			
					Amount
A. Cost of Work					
A1 Cost of Work (self-performed, subcontractors, suppliers no mark-up)					\$8,246,076.78
A2 Cost of Work (subcontractors, suppliers, materialmen)					
TOTAL COST OF WORK:					\$8,246,076.78
B. General Conditions					
					\$852,814.38
SUBTOTAL 1 (Cost of Work) (A + B):					\$9,098,891.16
C. CM@Risk's Fee					
					\$818,900.20
SUBTOTAL 2 (A + B + C):					\$9,917,791.36
D. Bonds and Insurance (on Subtotal 1)					
D1 Bonds (Payment and Performance)					\$72,791.13
D2 Insurance					\$177,428.38
TOTAL BONDS & INSURANCE:					\$250,219.51
SUBTOTAL 3 (SUBTOTAL 2 + BONDS & INS):					\$10,168,010.87
E. Sales Tax					
E1 Sales Tax					\$515,518.15
E2 Tax Exempt Material Adjustment					-\$24,176.60
TOTAL SALES TAX:					\$491,341.55

EXHIBIT D2: COST MODEL FORM

MAY 20, 2022

**CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
PROJECT NO: WW2111.401**

Page 2 of 2

F. Approved Allowances					
F1 Allowances with F2					\$0.00
F2 Owner Allowance					\$2,131,870.48
				TOTAL ALLOWANCES:	\$2,131,870.48
G. Contingencies					
G1 Construction Contingency					\$0.00
G2					\$0.00
				TOTAL CONTINGENCIES:	\$0.00
				TOTAL GMP PROPOSAL:	\$12,791,222.90
Establishment of Values:					
a. Cost of Work (A) and Allowances (F) to be submitted with GMP Proposal.					
b. General Conditions Cost (B) to be established in Baseline Cost Model.					
c. CM@Risk Fee as set forth in Section 3.7.3 of this Contract					

EXHIBIT D3: SCHEDULE OF VALUES

MAY 20, 2022

CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD PROJECT NO: WW2111.401

Page 1 of 4

CITY OF CHANDLER CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS CMAR PROJECT
PROJECT NO.: WW2111.401

5-20-22

60% GMP FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
ACHEN-GARDNER CONSTRUCTION PROJECT NO. 3938103

EXHIBIT D3 - SCHEDULE OF VALUES 60% GMP

ACHEN-GARDNER CONSTRUCTION, LLC
550 S. 79th STREET
CHANDLER, AZ 85226



DESIGN DOCUMENT STAGE: 60% WILSON

PAY ITEM	DESCRIPTION	UM	QUANTITY	UNIT PRICE	TOTAL
1	MOBILIZATION/DEMObILIZATION	LS	1.00	\$136,034.55	\$ 136,034.55
2	SURVEY	LS	1.00	\$19,470.00	\$ 19,470.00
3	INSTALL 6" DIP CL 350 WATERLINE & FITTINGS	LF	266.00	\$1,053.99	\$ 280,361.34
4	INSTALL 6" GATE VALVE	EA	8.00	\$2,250.72	\$ 18,005.76
5	INSTALL 18" STEEL CASING	LF	120.00	\$571.19	\$ 68,542.80
6	INSTALL 8" DIP CL 350 WATERLINE & FITTINGS	LF	1448.00	\$979.25	\$ 1,417,954.00
7	INSTALL 8" DIP CL 350 RECLAIMED WATERLINE	LF	327.00	\$981.18	\$ 320,845.86
8	INSTALL 8" GATE VALVE	EA	27.00	\$3,186.65	\$ 86,039.55
9	INSTALL 12" DIP CL 350 WATERLINE & FITTINGS	LF	89.00	\$1,091.71	\$ 97,162.19
10	INSTALL 12" DIP CL 350 RECLAIMED WATERLINE	LF	798.00	\$867.71	\$ 692,432.58
11	INSTALL 12" GATE VALVE	EA	7.00	\$4,391.20	\$ 30,738.40
12	INSTALL 24" STEEL CASING	LF	760.00	\$600.47	\$ 456,357.20
13	INSTALL 16" DIP CL 350 WATERLINE & FITTINGS	LF	197.00	\$1,515.61	\$ 298,575.17
14	INSTALL 16" GATE VALVE	EA	6.00	\$9,068.59	\$ 54,411.54
15	INSTALL 30" STEEL CASING	LF	80.00	\$633.75	\$ 50,700.00
16	CONNECT TO EXISTING 16" WATERLINE W/ TEE	EA	10.00	\$12,056.13	\$ 120,561.30
17	CONNECT TO EXISTING 24" WATERLINE W/ TEE	EA	2.00	\$19,141.21	\$ 38,282.42
18	INSTALL 1" COMBO AIR VAC VALVE	EA	8.00	\$8,512.94	\$ 68,103.52
19	INSTALL FIRE HYDRANT COC STD DET C-303	EA	8.00	\$6,505.21	\$ 52,041.68
20	REMOVE AND SALVAGE EXISTING FIRE HYDRANT	EA	8.00	\$1,710.91	\$ 13,687.28
21	ABANDON EXISTING 8" WATERLINE/GROUT FILL	LF	1437.00	\$72.89	\$ 104,742.93
22	ABANDON EXISTING 12" WATERLINE/GROUT FILL	LF	605.00	\$74.89	\$ 45,308.45
23	ABANDON EXISTING 16" WATERLINE/GROUT FILL	LF	185.00	\$80.86	\$ 14,959.10
24	ABANDON EXISTING 12" SEWERLINE/GROUT FILL	LF	771.00	\$65.04	\$ 50,145.84
25	REMOVE 12" SEWERLINE	LF	460.00	\$371.33	\$ 170,811.80
26	REMOVE EXISTING MANHOLE	EA	3.00	\$12,212.75	\$ 36,638.25
27	ABANDON EXISTING MANHOLE	EA	4.00	\$4,071.58	\$ 16,286.32
28	REMOVE & REPLACE 8" VCP SEWERLINE	LF	48.00	\$1,634.76	\$ 78,468.48

29	REMOVE & REPLACE 12" VCP SEWERLINE	LF	322.00	\$956.06	\$ 307,851.32
30	INSTALL 12" VCP SEWER LINE	LF	1372.00	\$635.24	\$ 871,549.28
31	INSTALL 60" POLYMER MANHOLE	EA	9.00	\$39,283.91	\$ 353,555.19
32	CONCRETE ENCASEMENT MAG 404	LF	220.00	\$294.96	\$ 64,891.20
33	EXISTING VALVE ADJUSTMENT	EA	8.00	\$450.00	\$ 3,600.00
34	ASPHALT REMOVAL & REPLACEMENT	SY	5202.00	\$121.16	\$ 630,274.32
35	TEMPORARY ASPHALT INSTALL & REMOVE	SY	100.00	\$62.45	\$ 6,245.00
36	SURVEY MONUMENT MAG 120 TYPE A	EA	8.00	\$350.00	\$ 2,800.00
37	REMOVE MEDIAN PAVERS	SF	1600.00	\$20.97	\$ 33,552.00
38	SIDEWALK REMOVAL & REPLACEMENT	SF	2656.00	\$14.27	\$ 37,901.12
39	SIDEWALK RAMP REMOVAL & REPLACEMENT	SF	774.00	\$28.01	\$ 21,679.74
40	VERTICAL CURB & GUTTER REMOVAL & REPLACEMENT	LF	704.00	\$34.99	\$ 24,632.96
41	SINGLE CURB REMOVAL & REPLACEMENT	LF	600.00	\$34.65	\$ 20,790.00
42	VALLEY GUTTER REMOVAL & REPLACEMENT	SF	1865.00	\$31.67	\$ 59,064.55
43	CONCRETE SCUPPER COC C-500 REMOVAL & REPLACEMENT	SF	960.00	\$70.41	\$ 67,593.60
44	SWPPP	LS	1.00	\$55,128.85	\$ 55,128.85
45	SEWER BYPASS	LS	1.00	\$847,299.34	\$ 847,299.34
	SUBTOTAL - DIRECT COST OF THE WORK (A1)				\$ 8,246,076.78
46	GENERAL CONDITIONS EXHIBIT D2, (B)	MO	6	\$ 142,135.73	\$ 852,814.38
	RUNNING TOTAL NO. 1 - DIRECT COST OF THE WORK INCLUDING GCs				\$ 9,098,891.16
10100	OVERHEAD AND FEE (7.5% OH, 1.5% FEE) EXHIBIT D2, (C)		9.00%		\$ 818,900.20
	SUBTOTAL - OVERHEAD AND FEE				\$ 818,900.20
	RUNNING TOTAL NO. 2 - DIRECT COST OF THE WORK + OH & FEE				\$ 9,917,791.36
10200	INSURANCE (INCL. BUILDERS RISK & POLLUTION LIABILITY) EX D2, (D2)		1.95%	(Calc on RT #1)	\$ 177,428.38
10300	BONDS (PAYMENT & PERFORMANCE) EX D2, (D1)		0.80%	(Calc on RT #1)	\$ 72,791.13
	SUBTOTAL - INSURANCE AND BONDS				\$ 250,219.51
	RUNNING TOTAL NO. 3 - DIRECT COST OF THE WORK + OH & FEE + INS & BOND				\$ 10,168,010.87
10400	SALES TAXES (5.07% or 7.8% of 65% of Running Total No. 3 EX, D2(E1)		5.070%		\$ 515,518.15
10450	ESTIMATED TAX EXEMPT MATERIAL ADJ. (ALLOWANCE) EX, D2 (E2)		5.070%	\$ 86,654.00	\$ (24,176.60)
	SUBTOTAL - SALES TAXES				\$ 491,341.55
	RUNNING TOTAL NO. 4 - DIRECT COST OF THE WORK, + OH & FEE + INS & BOND + SALES TAXES)				\$ 10,659,352.42
47-53	ALLOWANCES EXHIBIT D2, (F1) Included in (F2)	AL	0.0	\$ -	\$ -
10700	OWNER'S ALLOWANCE(AMOUNT INLC. MARK-UPS (F2)		20.0%		\$ 2,131,870.48
	SUBTOTAL - ALLOWANCES AND CONTINGENCY (INCL MUs)				\$ 2,131,870.48
	TOTAL GMP PROPOSAL				\$ 12,791,222.90

CITY OF CHANDLER CHANDLER HEIGHTS ROAD UTILITY RELOCATONS CMAR PROJECT				5-20-22	
PROJECT NO.: WW2111.401					
60% GMP FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD					
ACHEN-GARDNER CONSTRUCTION PROJECT NO. 3938103					
ITEM 46 - GENERAL CONDITIONS DETAIL					
ACHEN-GARDNER CONSTRUCTION, LLC					
550 S. 79th STREET					
CHANDLER, AZ 85226				DESIGN DOCUMENT STAGE: 60%	
				WILSON	
PAY ITEM	DESCRIPTION	QUANTITY	UM	UNIT PRICE	TOTAL
46.1	PROJECT SUPERINTENDENT	3,168.00	HR	109.41	346,610.84
46.2	SPECIALTY SUPERINTENDENT	1,056.00	HR	104.02	109,842.28
46.3	PROJECT MANAGER	528.00	HR	109.42	57,775.16
46.4	PROJECT ENGINEER	1,056.00	HR	93.81	99,062.80
46.5	ICE AND WATER	6.00	MO	660.00	3,960.00
46.6	BUY CONSTRUCTION WATER	6.00	MO	2,150.00	12,900.00
46.7	YARD SUPPORT	6.00	MO	21,945.00	131,670.00
46.8	TEMPORARY FACILITIES	6.00	MO	15,165.55	90,993.30
	GENERAL CONDITIONS (DIRECT COSTS)				852,814.38
46	MONTHLY GENERAL CONDITIONS	6	MO	142,135.73	
NOTE	See Main Schedule of Values Pay Item 46 for GCs				

CITY OF CHANDLER CHANDLER HEIGHTS ROAD UTILITY RELOCATONS CMAR PROJECT					5-20-22
PROJECT NO.: WW2111.401					
60% GMP FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD					
ACHEN-GARDNER CONSTRUCTION PROJECT NO. 3938103					
ACHEN-GARDNER CONSTRUCTION, LLC					
550 S. 79th STREET					
CHANDLER, AZ 85226					
					DESIGN DOCUMENT STAGE: 60% WILSON
PAY ITEM	DESCRIPTION	UM	QUANTITY	UNIT PRICE	TOTAL
47	TRAFFIC CONTROL (ALLOWANCE)	LS	1.0	\$ 575,480.00	\$ 575,480.00
48	OFF-DUTY OFFICER (ALLOWANCE)	LS	1.0	\$ 244,800.00	\$ 244,800.00
49	LANDSCAPING RESTORATION (ALLOWANCE)	LS	1.0	\$ 175,000.00	\$ 175,000.00
50	TRAFFIC SIGNAL (ALLOWANCE)	LS	1.0	\$ 75,000.00	\$ 75,000.00
51	MATERIAL TESTING (ALLOWANCE)	LS	1.0	\$ 50,000.00	\$ 50,000.00
52	SWEEPING (ALLOWANCE)	LS	1.0	\$ 35,000.00	\$ 35,000.00
53	PLANT OPENING FEES (ALLOWANCE)	LS	1.0	\$ 25,000.00	\$ 25,000.00
54	ASPHALT/CONCRETE REPAIRS (ALLOWANCE)	LS	1.0	\$ 200,000.00	\$ 200,000.00
	SUBTOTAL - DIRECT COST OF THE ALLOWANCES				1,380,280.00
10100	OVERHEAD AND FEE (7.5% OH, 1.5% FEE)		9.00%		\$ 124,225.20
	SUBTOTAL - OVERHEAD AND FEE @				\$ 124,225.20
	RUNNING TOTAL NO. 1 - DIRECT COST + OH & FEE				\$ 1,504,505.20
10200	INSURANCE (INCL. BUILDERS RISK & POLLUTION LIABILITY)		1.95%	(Calc on RT #1)	\$ 26,915.46
10300	BONDS (PAYMENT & PERFORMANCE)		0.80%	(Calc on RT #1)	\$ 11,042.24
	SUBTOTAL - INSURANCE AND BONDS				\$ 37,957.70
	RUNNING TOTAL NO. 2 - DIRECT COST + OH & FEE + INS & BOND				\$ 1,542,462.90
10400	SALES TAXES (5.07% or 7.8% of 65% of Running Total No. 3		5.070%		\$ 78,202.87
10450	ESTIMATED TAX EXEMPT MATERIAL ADJUSTMENT (ALLOWANCE)				
	SUBTOTAL - SALES TAXES				\$ 78,202.87
	TOTAL ALLOWANCES (SEE MAIN SCHEDULE OF VALUES PAY ITEM 10700)				\$ 1,620,665.77

EXHIBIT D4: LIST OF GMP DOCUMENTS

MAY 20, 2022

**CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
PROJECT NO: WW2111.401**

- Wilson Engineers City of Chandler - Chandler Heights Road Utility Relocations, Alma School Road and Chandler Heights Road 60% plan set (pages 1 to 24), Project No. WW2111.401 dated March 2022.
- Wilson Engineers Technical Specifications Submittal for City of Chandler – Chandler Heights Road Utility Relocations, Lake Drive: Chaparral Way to Alma School Road, City Project No. WW2111.401, dated February 2022 (Agency Review set, pages 1 to 99). TBD.
- Executed (12-16-21) Pre-construction Services Contract with Achen-Gardner Construction, LLC and the City of Chandler for the Chandler Heights Road Utility Relocations CMAR Project; City of Chandler Project No. WW2111.251.
- Project WW2111.401 GMP 1 -Package 1 (Chaparral Way – Dobson Road to Lake Dr.) proposal dated 1-26-22 and contract documents council approval of 2-24-22.
- Project WW2111.401 GMP 2 – Package 2 (Lake Drive – Chaparral Way to Alma School Road) proposal dated 3-18-22 and contract document scheduled for council approval on 4-28-22.

EXHIBIT D5: CLARIFICATIONS AND ASSUMPTIONS

MAY 20, 2022

**CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
PROJECT NO: WW2111.401**

NOTE: This GMP is based on the following clarifications and assumptions.

1. Fee Exclusions: GMP excludes all costs associated with City permit and plan review fees, Quality Assurance (QA) (i.e., City inspection and testing) costs, impact fees, and utility company fees, water meters/meter installations except for construction water, and/or any other fees not specifically identified herein.
2. Unit Price Contract Administration: This GMP will be administered as a Measured Quantity/Unit Price, Guaranteed Not-to-Exceed Contract. The Schedules of Values (Re: Exhibit D3) is defined by the individual work/pay items plus fee structure, and markups (re: Exhibit D3, Items 10100 through 10450). Final contract price/payout will be based on field measured, final completed quantities at the approved unit prices, approved allowance and/or contingency utilization, and approved change orders. It is understood that these City approved prices including mark-ups are the “Cost of the Work”. The mark-up structure on the Schedule of Values (Exhibit D3) will apply to Change Orders and/or Extra Work, allowances, and contingencies. The mark-ups for MAG section 109.5 do not apply for this contract. Pay Item under-runs and/or unused items shall fall to Owner’s Allowance for the duration of the project. Quantity over-runs shall be paid at the unit price established in the Schedule of Values for the pay item and shall be paid from Owner’s Allowance or Change Orders.
3. Aerial Construction Photography: Achen-Gardner shall provide a pre-construction video/photographs and progress photographs/videos periodically. Aerial videos shall only be provided if FAA and local approval is provided to fly a drone camera. Drone videos if allowed, shall be standard drone footage.
4. Mobilization/Demobilization – includes the following monthly items as defined in the Specifications: the field office fencing, work area fencing for three work sites, field offices, temporary utilities, material testing, and toilets for the six-month project duration. Therefore, the Mobilization/Demobilization Pay Item shall be invoiced monthly based on the two (2) month project duration.
5. Utility Relocations / Unknown Buried Conflicts: This GMP excludes all costs associated with removing, replacing and/or relocating any existing buried or overhead dry utilities and/or unknown buried conflicts including PCCP.
6. Final, For-construction Plans and Technical Provisions: Funds required for revisions made between the 90% and final design documents shall come from Owners Allowance.
7. Schedule – – The project schedule is based on working standard 8 hour regular daylight shifts that can include some weekends as scheduled and approved by the City. Our schedule excludes delay impacts due to unforeseen material supply chain issues, unforeseen utility impacts (SRP, etc.), unplanned traffic control impacts, working out of sequence, and or impacts from delays.

FEE SCHEDULE ITEM CLARIFICATIONS

ITEM NO.	DESCRIPTION	CLARIFICATION / ASSUMPTION
DIRECT COSTS		
1	Mobilization	• Mobilization & Demobilization • Pre-Construction Video & Progress Photos • Project Clean-Up • Known utility potholing • Small Tools & Consumables • Dust Permit • Project Sign • Quality Control based on MAG testing requirements for frequency and type. • Nighttime/weekend plant opening fees. • Measured and paid on lump sum basis.
2	Survey	• Survey, Staking, Registered Land Surveyor Certified As-Builts • Construction Redlines • GIS point collection and submission per City's GIS Mapping specifications • Registered Land Surveyor Certification of as-builts • Measured and paid on lump sum basis
3-6,8,9, 11-23	Potable Water	• Includes all installation work associated; dig/lay/bedding/shading/backfill per MAG specs and as noted on drawings, spoil/debris haul off, slurry backfill to full depth in asphalt per detail 101 on page M-1, ABC backfill outside of SRP 35' easement, connections to existing waterlines/service connections (tees), installation of valves, and testing (bac tee & chlorination) • Includes 6", 8", and 16" waterline as noted on the plans. • Includes 18", 24" and 30" steel casings where laterals are noted on plans; all lateral crossings to be placed under SRP duct banks. Each casing installation is based on all 35' at one time. • Work excludes cathodic protection for all DIP related components. • Work includes grout fill of 1,437 LF of 8", 605 LF of 12" and 185 LF of 16" abandoned waterlines per the plans. • Material pricing good for 30 days. • Measured and paid for as noted on Exhibit D3 unit rates summary.
7,8,10-12	Reclaimed Water	• Includes all installation work associated; dig/lay/bedding/shading/backfill per MAG specs and as noted on drawings, spoil/debris haul off, slurry backfill to full depth in asphalt per detail 101 page M-1, ABC backfill outside of SRP 35' easement, connections to existing reclaimed waterlines/service connections (tees), installation of valves, and pressure testing as required. • Includes 8" and 12" reclaimed waterline as noted on the plans. • Material pricing good for 30 days. • Measured and paid for as noted on Exhibit D3 unit rates summary.
24-32	Sewer	• Includes all installation work associated; dig/lay/bedding/shading/backfill, spoil/debris haul off, slurry backfill to full depth in asphalt per detail 101 on page M-1, ABC backfill outside of the 35' SRP easement, manhole connections, manhole installation/rehab as noted on plans, applicable sewer encasements, testing, and CCTV. • Includes 8" and 12" sewer as noted on the plans. • Includes new polymer manholes 60" diameter as noted on the plans. • Includes removal of existing manholes and existing 12" sewer line as noted on the plans. • Includes grouting 771 LF of 10" abandoned sewer line. • Includes ABC backfill instead of MAG 404 encasement. • Material pricing good for 30 days. • Measured and paid for as noted on Exhibit D3 unit rates summary.

ITEM NO.	DESCRIPTION	CLARIFICATION / ASSUMPTION
33-36	Asphalt Removal & Replacement	- Includes all work associated with the construction including saw cutting, spoil/debris haul off, subgrade preparation, and installation of ABC, AC, valve adjustments, survey monuments, and tack coat.. - Slurry seal is excluded. - Asphalt thickness to be replaced on Alma School Road/Chandler Heights Road at 5" Asphaltic Concrete on 12" of ABC as noted on the plans. - Includes thermoplastic striping. - Material pricing good for 30 days. - Measured and paid for by the Square Yard.
37-43	Concrete	- Includes all work associated; concrete removal, saw cutting, haul off, disposal, subgrade preparation, and replacement of concrete with like kind to match existing color and textured surfaces. Curb & Gutter replacements per mag 220, Single Curb, Sidewalk replacements per MAG 230 including ramps, median pavers, valley gutter/apron replacements per MAG 240 and concrete scupper C-500. - Material pricing good for 30 days. - Measured and paid for as noted on Exhibit D3 unit rates summary.
44	SWPPP – Design, Implementation, & Maintenance	- Includes SWPPP plan, implementation of plan, inspections, and removal at the completion of the project. - Track Out Pad - Measured and paid on lump sum basis.
45	Bypass Pumping	- Bypass #1 for 8" sewer at station 108+52 will include plug and vactor for pipe installation only, no bypass. - Bypass #2 & #3 for 12" sewer at stations 118+38 and 122+64 includes a duration of one month. Suction 2 MH at Basha and Fulton Ranch Blvd and Discharge MH at first north driveway eastside of Alma School Road for Fulton Ranch Promenade. Bypass 2 is reversed for 3. - Bypass #4 for 12" sewer station 130+78 to 132+18 includes a duration of 2 months. Suction MH #A is located on eastside Alma School south of Chandler Heights at approximately Nolan Way and suction MH #B is located on the northeast corner of Alma School/Chandler Heights. The discharge MH is located on the eastside of Alma School between first and second driveway north of Chandler Heights for the Fulton Ranch Promenade. Two business services on the southeast corner of Alma School and Chandler Heights are included to be bypassed with new suction manholes and monitored 4" pump sets. - Bypass #5 for 12" sewer station 153+87 and station 150+98 to 162+09 includes a duration of 4 months. Suction MH A (new MH for bypass) is located southside of Chandler Heights at Colorado St. Suction MH B is located on southside of Chandler Heights first driveway east of Arizona Ave. Suction MH C is located on eastside of Arizona Ave at first driveway north of Chandler Heights. Suction MH D is located on the eastside of Arizona Ave., south of Chandler Heights and just south of the first driveway. Suction MH D is to be suctioned as required with a vactor. The discharge manhole is located on the northside of Chandler Heights at the first driveway west of Arizona Ave. - Measured and paid on lump sum basis.

ITEM NO.	DESCRIPTION	CLARIFICATION / ASSUMPTION
46	General Conditions	- Includes cost of Project Management – (3 each) Project Supt., Specialty Supt. Project Manager, Project Engineer and vehicles. - Ice/drinking water and construction water. - Temporary Facilities (6.0 months) – trailer, fencing, electrical service, yard rental, toilets, and trailer furnishings. - Assumption is that GMP 1 timeframe for 2 months (April/May) gives GMP 2 a sequenced start directly after GMP 1 for 2.0 months (June/July), GMP 3 for 6 months (August thru January) with no gap. One month is included for final completion. Should a nonconsecutive work time gap exist the additional time would be funded out of Owner Contingency. - Measured and paid on a monthly basis.
ALLOWANCES		
47	Traffic Control (Allowance)	- Traffic Control restrictions of one lane in each direction except for the installation of casings are the basis of the project schedule. - Traffic Control includes barricades and signage for the project. - Message Boards – includes Variable Message Boards with installation and removal labor. - Traffic Control Plans - includes preparation, submission, and updates of Traffic Control Plans (TCP). - Traffic Control setup & takedown - includes installation, daily maintenance, and removal of barricades and signage in accordance with approved TCP. - Traffic control includes project plating. - Traffic control includes jersey barrier with installation/removal labor. - Measured and paid for on a cost-plus markups basis unless unit prices can be utilized where applicable out of owner contingency F2.
48	Off Duty Police Officer w/ vehicle (Allowance)	- Chandler Off-Duty Police Office and Vehicle. - Hourly rate may be adjusted to match actual costs incurred (<i>City rates could be subject to change during the duration of the project</i>). - Measured and paid on an hourly basis out of owner allowance F2.
49	Landscape Restoration (Allowance)	- Includes all work associated including granite removal, spoil/debris haul off, subgrade preparation, replacement of decomposed granite, replacement of trees/shrubs, restoration of existing irrigation system and median pavers. - Measured and paid for on a cost-plus markups basis unless unit prices can be utilized where applicable out of owner allowance F2.
50	Traffic Signal (Allowance)	- Includes all work associated with the installation of temporary signals. - Measured and paid for on a cost-plus markups basis unless unit prices can be utilized where applicable out of owner allowance F2.
51	Material Testing (Allowance)	- Includes all work associated with Quality Control based on MAG testing requirements for frequency and type. - Measured and paid for on a cost-plus markups basis unless unit prices can be utilized where applicable out of owner allowance F2.
52	Sweeping (Allowance)	- Includes all work associated with sweeping for dust control to and from the site. - Measured and paid for on a cost-plus markups basis unless unit prices can be utilized where applicable out of owner allowance F2.
53	Plant Opening (Allowance)	- Includes all work associated with additional plant opening fees. - Measured and paid for on a cost-plus markups basis unless unit prices can be utilized where applicable out of owner allowance F2.
54	Concrete/Asphalt Repair (Allowance)	- Includes the removal and replace of existing asphalt/concrete as a result of construction activities. - Measured and paid for on a cost-plus markups basis unless unit prices can be utilized where applicable out of owner allowance F2.
10700	Owner's Allowance (F2)	- For City requested upgrades and changes per Construction Contract Article 15.4.2 Owner's Contingency. - Measured and paid for on a cost-plus markups basis unless unit prices can be

ITEM NO.	DESCRIPTION	CLARIFICATION / ASSUMPTION
		utilized where applicable.
CMAR FEE		
10100	CMAR Construction Fee	Measured and paid on calculation of 9.0% of subtotal direct costs, contingencies, allowances, and job overhead.
BONDS AND INSURANCE		
10200	Insurance	Measured and paid on calculation of 1.95% of subtotal for direct costs.
10300	Performance and Payment Bonds	Measured and paid on calculation of .8% of subtotal for direct costs.

SALES TAX		
10400	Gross Receipts Tax	- Calculated based on 65% of 7.8% City of Chandler Sales Tax rate. - Calculation may be adjusted to match actual sales tax incurred (City rates could be subject to change during the duration of the project). - Measured and paid on calculation of 5.07% of subtotal direct costs, contingencies, allowances, job overhead, CMAR fee, bonds and insurance.
10450	Tax Exempt Material Adjustment	- Tax Exempt material adjustment for water line materials per Title 42 of the Arizona Revised Statutes (also reference AZDOR code 535 Pipes or Valves, 4" diameter or large used to transport oil, natural/artificial gas, water, coal slurry). - Measured and paid on lump sum basis.

*** Allowance options with values are referenced above; allowance items can be reallocated to the base bid as requested.*

EXHIBIT D6: SUBCONTRACTOR AND SUPPLIER SOLICITATION DOCUMENTATION,
AWARD RECOMMENDATIONS, AND QUOTES

MAY 20, 2022

CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
PROJECT NO: WW2111.401

See following subcontractor and supplier award recommendations spreadsheet with quotes.

- 1) This Proposal is based on recommended awarded subcontractor and supplier resource values and related proposals/quote clarifications, inclusions, exclusions, escalation clauses, and qualifications. **These proposals/quotes follow this summary sheet.**
- 2) This summary reflects competitive bids with a specific scope/Schedule of Values provided to all subcontractors and suppliers at the time of solicitation. Actual quantities and extended totals reflected in the SOV may be different based on final quantity and cost adjustments due to ongoing revisions.

VENDOR SUMMARY									
5/20/2022									
SCOPE OF WORK/MATERIAL	SUBCONTRACTOR/SUPPLIER		BID/NO BI	BID AMOUNT	SELECTION NOTES	RECOMMENDATION			
AGGREGATES	Buesing Corp		B	\$ 615,840.00	Lowest Qualified Bidder				
AGGREGATES	Cemex Inc		B	\$ 635,085.00					
ASPHALT	Fisher Sand and Gravel		B	\$ 174,712.00					
ASPHALT	Vulcan Materials		B	\$ 184,557.00	Lowest Reliable Source/Fisher cannot reliably provide				
BYPASS	Capital Pump & Equipment		B	\$ 700,620.00	Lowest Qualified Bidder				
BYPASS	Rain For Rent		B	\$ 1,047,961.00					
CASING	Trinity Products		B	\$ 150,665.60	Selection Continuation Pck 1&2				
GROUT	Action Pumping		B	\$ -	No Longer Qualified Bidder				
GROUT	Cell-Crete Corporation		B	\$ 103,818.00	Lowest Qualified Bidder				
GROUT	Pacific International Grout Company		N		No Bid Submitted				
PIPEPK	Core&Main		B	\$ 570,736.00	Selection Continuation Pck 1&2				
POLYMH	Armorock		B	\$ 154,136.07					
REDIMIX	Arizona Materials LLC		B	\$ 695,562.64	Price escalations				
REDIMIX	Achen Gardner Composite		B	\$ 747,313.98	Use to account for need to use multiple vendors/escalations				
REDIMIX	Desert Redi Mix		B	\$ 758,033.13	NO PRICE/DELIVERY GUARANTEE				
SURVEY	Atwell, LLC		N		No Bid Submitted				
SURVEY	Benchmark Surveying & Consulting		N		No Bid Submitted				
SURVEY	Survey Innovations Group Inc.		B	\$ 19,470.00	Lowest Qualified Bidder				

Quote Analysis Report

Achen-Gardner Construction, LLC 71
39381003

Mark McLafferty

CHANDLER HEIGHTS RD PACKAGE 3

Page 1 of 8

4/15/2022 1:09 PM

AGGREGATES AGGREGATES

Vendor Code							VULCANMATERI	BUESINGCORP	CEMEXINC
Vendor Name							Vulcan Materials	Buesing Corp	Cemex Inc
Vendor Phone							6025288961	6022333339	7606377179
Bid	Activity	Resource	Desc	Quan	Unit	Plug Price	Unit Price	Unit Price	Unit Price
		2AG57ROCK	57 ROCK	4.00	TN	25.0000	0.0000	25.0000 P	25.0000 P
		2AGABC	ABC MAG	38,490.00	TN	15.0000	0.0000	16.0000	16.5000
		2AGRIPRAP	RIP RAP	20.00	TN	75.0000	0.0000	75.0000 P	75.0000 P
Quoted Amount							0	615,840	635,085
Plugged Amount							0	1,600	1,600
Bond							0	0	0
Mobilization							0	0	0
% Adjustment							0	0	0
\$ Adjustment							0	0	0
Total Adjustment							0	0	0
Totals							578,950	0	617,440
Diff From Plug							-578,950	38,490	57,735
Total Minority							0	0	0

A 'P' beside a price indicates a plug price.
Green background indicates that the vendor is selected.

**BUESING CORP.**Highway / Heavy Construction
AZ Lic. # A-ROC200645*"Simply the Best"*

Date: 4/7/2022

To: Achen Gardner Construction

Attn: Mark McLafferty

Phone: -

Fax:

Bid Date:

April 7, 2022

Project No:

Project:

Chandler Heights Road Improvement

Location: Chandler Heights Road Alma School Road to Arizona Avenue

City: Chandler, Az

We are pleased to submit the following cost estimate:

Pricing Good Through 12/31/2022 (See Standard Provisions)

QUANTITY	UNIT	DESCRIPTION	PRICE / UNIT	TOTAL
44,943	TON	NON LIMED MAG ABC DELIVERED IN BELLY DUMPS (THRU 09/30/2022)	\$ 13.75	\$
	TON	NON LIMED MAG ABC DELIVERED IN SUPERS (THRU 09/30/2022)	\$ 15.25	\$
4	TON	#57 ROCK DELIVERED IN SUPERS (THRU 09/30/2022)	\$ 20.00	\$
	LD	#57 ROCK SHORT LOAD CHARGE	\$ 125.00	\$
	TON	AGGREGATE ESCALATION CHARGE (EFFECTIVE 10/01/2022)	\$ 0.75	\$

Standard Provisions**SUFFICIENT QUANTITIES PER DELIVERY TO INSURE 4 HOUR MINIMUM PER TRUCK***Prices do not include weekend, holiday, off hour, or overtime shipments. Additional charges may apply if any of these conditions occur. Unless otherwise stated, dirt haul prices exclude permits, loading, dust control & sweeping.**ALL PRICES ASSUME THAT BUESING CORP'S STANDARD INSURANCE IS ACCEPTABLE**Payment due on or before the 25th day of the month for work completed or materials delivered in the month prior. No retention withheld.***ALL PRICING WILL BE HONORED THROUGH THE DATE SPECIFIED ABOVE
PROVIDED THAT WE RECEIVE A P.O., P.A., OR LETTER OF INTENT WITHIN 30 DAYS. If****JOB AWARD IS LONGER THAN 30 DAYS PLEASE NOTIFY US WITHIN THE 30 DAYS,
AND WE WILL NEGOTIATE WITH MATERIAL SUPPLIERS TO ALLOW THE PRICE TO BE HONORED****Special Provisions****AGGREGATE PRICING INCLUDES AN ALLOWANCE OF 5 MINUTES PER LOAD FOR BELLY DUMPS OR 7 MINUTES PER LOAD FOR SUPERS TO GET FROM THE PROJECT ENTRANCE TO THE DUMPSITE, UNLOAD & GET BACK/ON TO THE PROJECT ENTRANCE/EXIT****BUESING WILL MAKE EVERY REASONABLE EFFORT TO HONOR THIS QUOTE & MEET CUSTOMER PRODUCTION EXPECTATIONS. HOWEVER, MATERIAL & TRUCK AVAILABILITY ARE BEYOND OUR CONTROL. ACCEPTANCE OF THIS QUOTE SHALL NOT SERVE AS A GUARANTEE THAT MATERIALS AND/OR TRUCKS WILL BE AVAILABLE WHEN REQUESTED.****If These Terms And Conditions Are Acceptable Please Sign This Form And Fax It Back To The Number Below****ACCEPTANCE OF PROPOSAL***The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified, provided there is an understanding between parties that the prime and / or subcontractor must receive an official award. If an official award, contract or subcontract is not consummated this proposal shall become null and void.*

Company Name: Achen Gardner Construction

Authorized Person's Signature: _____

Date: _____

Thank you

and GOOD LUCK !!!

Respectfully Submitted: Cecil Wallace

3045 S 7th Street
(602) 845-3133Phoenix, Arizona 85040
Cell: (602) 799-5702

GENERAL INFORMATION

Account: ACHEN-GARDNER CONSTRUCTION LLC
Account number: 3033003
Contact: Mark McLafferty
E-mail: mmclafferty@achen.com
Phone: 480-940-1300

Customer Service: 602-416-2658
Sales Office Address: 5555 E. Van Buren Street, Suite 155, Phoenix, AZ 85008

Project: D - CHANDLER HEIGHTS RD UTILITY REL
Project Address: 23652 South Alma School Road
 Chandler, Arizona 85248

Doc. Expiration Date: 5/11/2022
Price Valid from: 4/11/2022
Price Valid to: 12/31/2022

MATERIAL PRICING:

Material Number	Description	Plant	Quantity	UoM	Delivered Price	Truck Type	Notes
1307799	SPEC BASE COARSE	2108-8985-Agg Trading - Sacaton (SO-3233)	45,000.00	TON	\$16.25	16 WHEELER	DELIVERED IN SUPERS

ADDITIONAL CLAUSES

Category	Item	Value	UoM	Comments
Pricing Escalation				
	The prices are subject to an escalation of	x.xx	USD/ton	Effective , and each months thereafter
Surcharges and Fees				
	Variable Fuel surcharge	xx.xx	USD/Load	
	Environmental compliance fee	\$5.00	USD/Load	Charged on all loads
	Full freight recovery	xx.xx	USD/ton	Based on full freight for a load of 22 Tons
	Plant Opening fee for non business hours on weekdays, weekends	\$1,000.00	USD per Each	Subject to notification
	Saturday haul premium	Bid upon request	USD/ton	Aggregates account manager for pricing
	Standby charge	xx.xx	USD/min	Subject to notification
	Re-handling fee	\$40.00	USD/Load	Unsuitable material dumped at landfill, to be reloaded

Pricing Conditions

All Sales are subject to CEMEX Standard terms and conditions. Pricing quoted is per short ton and does not include sales tax. Applicable Sales Tax will apply unless Sales Tax exemption certificate is on file at CEMEX prior to pick up or delivery.

Delivered Pricing: Pricing is based on delivery during regular aggregate plant hours.

FOB Pricing: Material prices are FOB CEMEX facility at the designated location loaded onto buyer's trucks. Ownership of materials transfers from CEMEX to customer at gate.

Payment terms

Payment Terms are standard as follows: Net 10th Prox. (10th of the month following delivery or pick up)

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

Material Availability

All Materials are subject to availability by plant inventory, production schedules, shipping schedules, plant failure and / or equipment breakdown. CEMEX is not liable for lack of material, equipment, drivers, disruptions in transportation, and any other shortage.

Delivery Availability

All shipments are subject to truck availability.

Product Performance

All material is per engineer approval and is considered acceptable when tested and sampled per acceptable sampling standards at our plant.

Respectfully,

CEMEX Con Mat South,LLC

Donald Peters

Phone: 0

Email: donald.peters@cemex.com

Accepted by:

ACHEN-GARDNER CONSTRUCTION LLC

Standard Terms and Condition

1. Terms and Conditions. These Standard Terms and Conditions of CEMEX Con Mat South, LLC and its affiliates ("Seller"), Buyer's Credit Application, and Seller's Quotation, if any, (collectively, "Agreement") govern any and all purchases made by Buyer from Seller and are incorporated herein by reference. This Agreement, and any other documents prepared by Seller for Buyer in connection with Buyer's purchase of materials contain the entire understanding between the parties concerning the subject matter hereof, and there are no other agreements or understandings except as set forth herein. Any different or additional terms or conditions contained in any writing or instrument of Buyer, whether by purchase order or otherwise, are hereby objected to by Seller and shall have no effect on, and not become part of, this Agreement.
2. Technical Assistance. In no event shall Seller bear any responsibility for claims arising from technical advice or assistance provided to Buyer. Advice by Seller is for Buyer's guidance only and Buyer agrees to rely solely on its own architects, engineers or other technical experts.
3. Prices and Price Increases. Prices for the materials are (i) subject to material availability at the time of delivery; (ii) shall remain firm until the date set forth on the Seller's Quotation, if any, or if no such date is given, for a period of thirty (30) days after the date the order was accepted by Seller, the price was quoted by Seller or such shorter period as set forth in the Seller's quote; thereafter prices are subject to change by Seller; and (iii) do not include Saturday, Sunday holiday, off-hour or overtime shipments, all of which are subject to additional charges. Prices are applicable only to the job quoted or orders accepted by Seller and are available only to the specific Buyer referred to therein, are for a standard mix design, if applicable, and are only for the quantities requested by Buyer at the time the prices were quoted. Seller reserves the right to (i) increase prices on any quote or accepted orders without notice to reflect any raw material cost increases or surcharges incurred by Seller and (ii) defer or cancel any quote or accepted orders in the event Seller becomes delayed or prevented from performing due to shortages or allocation of raw materials. In the event of a delay or cancellation resulting from shortages or allocations of raw materials, Seller shall not be liable to Buyer for any damages incurred by Buyer as a result of any such delay or cancellation.
4. Surcharges and Fees. Prices quoted may not include additional charges Buyer may be responsible for. Such additional charges include, but are not limited to, charges for additives, accelerators, winterizers/summerset, water (hot or chilled), ice and stand-by, waiting time and delivery charges due to loads in amounts less than a full truckload. Such prices shall be charged at the rate of Seller's then-current price list for additional charges, which is incorporated into these Terms and Conditions by reference as if fully set forth herein and which is available to Buyer upon request. Buyer acknowledges that surcharges and fees are to recoup Seller's costs and achieve a return on investment.
5. Tests. Seller reserves the right to levy an additional charge on Buyer for any nonstandard tests that Buyer may require to be performed on the materials sold to Buyer. Failure of Buyer to witness any tests shall be deemed a waiver by Buyer of its right to do so and of any right to require repetition of such tests, and Buyer shall be deemed to have accepted any such test results as sufficient to meet its specifications.
6. Payment and Interest. Buyer shall make all payments due hereunder in accordance with the terms of this Agreement and as stated on Seller's invoices or other notices of terms, without any right of setoff or retention and without regard to any agreement Buyer may have with other parties. If Buyer fails to pay in full the invoice amount when due, Buyer agrees to pay interest on the unpaid balance from the date when due until paid in full at the rate selected by Seller, not to exceed the lesser of 18% per annum or the highest lawful rate, specifically including post judgment. Buyer agrees to pay any and all costs and expenses incurred by Seller in collecting from Buyer any past due amounts, including but not limited to reasonable attorney fees, court costs and collection agency fees. Seller may suspend pending deliveries during any period when Buyer has overdue balances or evidence of a changed financial condition.
7. Liens. Buyer agrees to timely provide in writing to Seller information regarding bonding companies, general contractors or owners for the purpose of filing preliminary notices and claims on payment bonds or mechanic's and material supplier's liens.
8. Delivery. Seller's responsibility for delivery shall cease FOB shipping point or, if Seller agrees to deliver FOB delivery site, at the curbside or frontage of the address for delivery. Where delivery of products is to an unattended site, Seller will not be liable for any loss or damage to products, property or for unsigned delivery tickets. In absence of a specific delivery date on the Quotation, Seller will commence delivery of the materials on a date and at a rate mutually agreed upon by both Seller and Buyer.
9. Default. If Buyer is in default under this Agreement or any of its contracts or obligations with Seller, Seller may at its option and without notice: (i) declare the entire unpaid balance owed by Buyer due and payable; (ii) postpone further deliveries until such default is remedied; (iii) terminate any and all obligations under any contract; and (iv) refuse further performance without any liability to Buyer.
10. Limited Warranty and Liability Disclaimer. Seller warrants that the materials sold under this Agreement meet solely the description and specifications for the same set forth in the applicable Quotation, if any, and shall be free from defects in material and workmanship for a period of one (1) year from the date of delivery thereof. No other express warranties are made with respect to said materials. Acceptance by Buyer of the materials shall constitute confirmation by Buyer that the materials meet the description and specifications, if any, set forth in such applicable Quotation. The foregoing warranty is subject to standard manufacturing and color variations, efflorescence, tolerances and classifications or naturally occurring substances. Seller is not responsible for installation or defective conditions caused by installation. Buyer's exclusive remedy for breach of this warranty shall be to require Seller, at Seller's option, to refund the purchase price for the materials failing to comply, to repair or to provide Buyer with conforming replacements for any nonconforming materials. Seller shall not be responsible for any removal or installation costs. THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WRITTEN OR ORAL WARRANTIES OR CONTRACTUAL AGREEMENTS, WHETHER EXPRESS OR IMPLIED BY LAW OR OTHERWISE, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR HABITABILITY. Buyer agrees that in specific consideration for receiving this warranty, it will indemnify and hold harmless Seller from any and all damages in connection with any statutory, contractual or warranty breach, negligence, strict liability, or other tortious conduct by Seller. This Agreement may not be modified or amended except by a writing signed by both parties.
11. Delays. If Seller is unable to complete delivery of any part of an order, Buyer shall accept such part of the order as Seller is able to deliver and Buyer shall pay for the part delivered pro rata at the same rate as the whole of the order agreed to be sold and on the same terms of payment. In the event Seller shall be delayed in or prevented from the performance of any act required under this Agreement, or it shall become commercially unreasonable to perform by reason of governmental allocations, priorities, restrictions or regulations now or hereafter in effect, storm, flood, fire, earthquake or other Acts of God, war, terrorism, riot, insurrection or other civil disturbance, strikes, lockouts, shortages of materials, labor, raw materials, fuel, power or production facilities, breakdown of equipment, transportation shortages, changes in market conditions or other contingencies beyond Seller's reasonable control whether of a similar or dissimilar nature to the foregoing, Seller shall not be liable to Buyer for any damages incurred by Buyer as a result of any such delay or failure.
12. Claims. Buyer agrees that all claims against Seller are waived unless presented to Seller in writing within one week from the date of delivery of the materials. Seller shall have thirty days from receipt to inspect and correct a defect if such claim is allowed. Buyer further agrees that in the event that Buyer disagrees with Seller's decision about whether to allow the claim that the Buyer's remedy is to formally adjudicate the claim, but the Buyer further agrees that Seller's invoices for all materials supplied shall be paid in the interim. No claim shall be allowed after the materials purchased hereunder are incorporated, modified or processed by Buyer in any manner. SELLER'S LIABILITY ON ANY CLAIM FOR LOSS OR DAMAGE SHALL NOT EXCEED THE PRICE OF THE MATERIALS ACTUALLY RECEIVED FROM BUYER BY SELLER WITH REGARD TO WHICH SUCH CLAIM FOR LOSS OR DAMAGE IS MADE.
13. Waiver. Seller may, at its option, permit Buyer to remedy any default under this Agreement without waiving the default so remedied or any other default by Buyer. Buyer waives notice of default of this Agreement and waives presentment, demand, protest, and notice of dishonor as to any instrument issued or delivered to Seller.
14. Venue. This Agreement will be governed by the applicable state and federal laws without giving effect to conflict of laws principles. The Buyer agrees that any legal actions and proceedings brought for the breach or the enforcement of this Agreement will lie in the state and county in this state of delivery. Buyer consents and submits to the jurisdiction and venue of any state, county or federal court located within that county. As a material inducement to Seller to enter into this Agreement, Buyer waives the right to trial by jury in any proceeding arising out of or related to this Agreement.
15. Notice. Any notice sent to Seller shall be in writing and sent by Certified Mail, postage prepaid, to the 10100 Katy Freeway, Suite 300, Houston, TX 77043, Attn: CEMEX Customer Care.
16. Severability. If any term, provision, covenant or condition of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions shall remain in full force and effect and shall in no way be affected, impaired or invalidated. The parties agree that each term and provision of this Agreement shall be construed according to its fair meaning and not strictly for or against any Party.
17. Offset and/or Setoff. Seller may exercise the right of set-off under this Agreement as to any sums owed by Buyer and/or its affiliates under any other contract or agreement with Seller and/or its affiliates.
18. Remedies Cumulative. The duties and obligations imposed by this Agreement and the rights and remedies available under this Agreement are to be in addition to, and not a limitation of rights and remedies at law or in equity.
19. Miscellaneous. Time is of the essence. Buyer consents to Seller sending information to Buyer regarding Seller's products and prices at any time by fax to any fax number provided by Buyer, other electronic means or otherwise. A facsimile copy or electronic transmission will be treated as an original. Buyer shall not assign the Agreement or any interest herein without the prior written consent of Seller, and any attempted assignment, whether by operation of law or otherwise, shall be void without such prior written consent.
20. Authorization for Credit Review. Buyer consents to Seller's use of a non-business consumer credit report on the Buyer in order to further evaluate the credit worthiness of the Buyer in connection with the extension of business credit as contemplated hereby. Buyer authorizes Seller to utilize a consumer credit report from time to time in connection with the extension or continuation of business credit. Buyer hereby knowingly consents to the use of such credit report consistent with the Federal Fair Credit Reporting Act as contained in 15 USC @ 1681 et seq.
21. Representations. Buyer represents to Seller that it is solvent and that any financial information provided reflects the present financial condition of the Buyer. If Buyer is not a corporation or limited liability entity, Buyer acknowledges that Seller is relying on the credit worthiness and financial ability of the owner(s) of Buyer. Each owner shall be joint and severally liable for all indebtedness of Buyer to Seller under the Agreement. Buyer warrants that all information supplied to Seller is accurate and complete. Each representation and the information contained in a Credit Application, if any, is material and given to induce Seller to provide credit. Buyer will notify Seller by certified mail, within forty-eight (48) hours after any material change in Buyer's financial or ownership status.



Our Commitment to Sustainable Construction



CEMEX has an ambitious strategy to address climate change by delivering sustainable construction materials. Our ambition reflects a commitment to a more sustainable future. That's why we're leading the way in developing solutions that contribute to resilient infrastructure, while promoting economic growth with respect for the environment.



Learn more at cemexusa.com/sustainability



We're proud to offer our range of sustainable low carbon ready-mix concrete for builders who want to address climate change. Vertua® Classic can help you achieve CO₂ emissions reductions by 20% or more when compared to 100% portland-cement-based concrete.

Learn more:
cemexusa.com/vertua



Portland Limestone Cement

Build sustainably without compromising strength, durability or other benefits. CEMEX Type IL is a popular Portland Limestone Cement suited for projects such as concrete, precast, block, pavers and many others. Learn more:
cemexusa.com/TypeIL.



CEMEX has been producing high-quality, reliable and innovative admixtures for the construction industry for more than 20 years. CEMEX Admixtures are customized to fit your exact specifications and can help your concrete perform in a wide variety of conditions. Learn more:
cemexusa.com/admixtures.



Quote Analysis Report

Achen-Gardner Construction, LLC 71
39381003-2

Mark McLafferty
CHANDLER HEIGHTS RD PACKAGE 3 GMP FINAL

Page 1 of 2
5/19/2022 8:22 AM

ASPHALT ASPHALT

Vendor Code							FISHERSANDAN	VULCANMATERI	MARTINMARIET
Vendor Name							Fisher Sand and	Vulcan Material	Martin Marietta
Vendor Phone							4807301033	6025288961	4806397165
Bid	Activity	Resource	Desc	Quan	Unit	Plug Price	Unit Price	Unit Price	Unit Price
		2AC12EVAC	TEMPORARY ASPHALT INSTA	17.52	TN	92.0000	90.5000	95.6000	110.0000
		2AC12EVAC	REPLACE ASPHALT	1,868.00	TN	0.0000	90.5000	95.6000	110.0000
		2AC12EVAC	BYPASS PUMPING	45.00	TN	74.0000	90.5000	95.6000	110.0000
Quoted Amount							174,712	184,558	212,357
Plugged Amount							0	0	0
Bond							0	0	0
Mobilization							0	0	0
% Adjustment							0	0	0
\$ Adjustment							0	0	0
Total Adjustment							0	0	0
Totals						4,942	174,712	184,558	212,357
Diff From Plug							169,770	179,616	207,415
Total Minority							0	0	0

A 'P' beside a price indicates a plug price.
Green background indicates that the vendor is selected.

Quotation

Attn: Mark McLafferty

Quote Name: CHANDLER HEIGHTS UTILITY / ALMA SCHOC
Quote #: 513348

ACHEN-GARDNER CONSTRUCTION LLC
550 SOUTH 79TH STREET
CHANDLER, AZ 85226
Acct#: 213235

ALMA SCHOOL RD & LAKE DR / CHANDLER
AZ049141
CHANDLER, AZ 85248

Contract #:

Date:	Monday, May 2, 2022	Sales Rep :	Lyndsay Ervine
Quote Created:	Wednesday, February 16, 2022		2625 E University
Effective From:	Monday, May 2, 2022	Phone:	PHOENIX, AZ 85034
Quote Expiration:	Thursday, June 2, 2022	Fax :	480-647-5404
Price Expiration:	Thursday, June 30, 2022	Email:	ervinel@vmcmail.com

Special Instructions:

Material quoted based on no specs reviewed. If any changes or different material is required, material is subject to price adjustment.

Prices quoted are for delivery during normal business hours - Monday thru Friday 6AM to 5PM. Plant Premium for Monday - Friday night production (per 8 hour shifts) will be charged \$2,000.00 per shift. Plant Premium for Saturday production (per 8 hour shifts) will be charged \$1,000.00 per shift. Plant Premium for Sunday production (per 8 hour shifts) will be charged \$2,000.00 per shift. Any overtime will be charged at \$350.00 per hour. Delivered price is based on 23.50 tons (full load), short load fee will apply if under 23.50 tons. Truck stand by will be charged on site after the first 20 minutes at the rate of \$100 per hour or \$1.67 per minute. All night work will be subject to an 8 hour minimum hourly haul charge. All weekend work will be subject to a 4 hour minimum hourly haul charge. Trucking is based on availability. Vulcan materials will not be held responsible for schedule impacts due to trucking shortages.

SAND & GRAVEL

Plant	Product Name	Product #	Qty	U/M	Delivered Price Per Unit
WEST BROADWAY SAND & GRAVEL	MAG SPEC ABC	16272	24,645	Tons	\$30.55
		Truck Type STD FRT RATE			
WEST BROADWAY SAND & GRAVEL	MAG SPEC ABC	16272	24,645	Tons	\$32.85
		Truck Type BOTTOM DUMP			
VAL VISTA SAND & GRAVEL	#57 ROCK	25112	2	Tons	\$29.75
		Truck Type STD FRT RATE			

ASPHALT

Plant	Product Name	Product #	Qty	U/M	Delivered Price Per Unit
SAN TAN HMA	3/4" EVAC PG70-10	231512T	750	Tons	\$95.60
		Truck Type STD FRT RATE			

Other Charges

Environmental Fee -Agg & Asphalt at \$4.00 / Load

FUEL SURCHARGE PAY AZ at 16.00% / Percent of Amount

Prices quoted above do not include any state or local sales and use tax, if any applies for this project.

Prices quoted are for shipments during normal daytime working hours unless other shipping hours are mutually agreed upon in writing by both parties.

Prices are FOB your jobsite as stated above. Terms are Net 15 prox. Please note standard terms and conditions apply. (Subject to credit approval)

This quote is limited to acceptance within 30 days from the date of this quotation after which time quotation is subject to review/revision. Please contact Sales prior to placing the order.

Accepted by: _____

Date: _____

Sales Representative: _____

Date: _____

We appreciate the opportunity to provide you this quote and trust that Vulcan will have the pleasure of serving your needs for this and future projects.

GENERAL TERMS AND CONDITIONS

PRICES AND TERMS

Prices are based on the terms and conditions set forth on page 1 of this Quotation, of which these General Terms and Conditions form a part, the terms and conditions stated in Customer's Application for Business Credit, and, if applicable, any terms and conditions relating to the delivery or shipment of materials by truck, barge, vessel, rail or other means which are provided by Vulcan to Customer in addition to this Quotation (each, a "Vulcan Sales Document", and collectively, the "Vulcan Sales Documents"). Prices are available only to the customer specifically named therein, and are only for the quantities mentioned in such Quotation or Sales Order plus or minus 10% of such quantities. A charge of 1.5% per month, (18% annum), will accrue on a daily basis from the date of invoice and will continue to accrue on a daily basis on any unpaid balance, both before and after judgment, until the date the balance is paid in full, or at the maximum amount permitted by law in which the sale occurred, whichever is less. **However, the assessment of a finance charge on invoices paid in full by the payment due date will be waived.** Quotation is offered for furnishing the total aggregate requirements for the project only. Customer's contract with Vulcan regarding the sale by Vulcan to Customer of the materials listed in this Quotation is subject to the terms and conditions set forth in the Vulcan Sales Documents. Prices reflect Customer's acceptance of materials at the quoted plant based upon gradation analysis performed and reported by Vulcan's certified plant quality control personnel. Any penalties that result from in place sampling shall be the full responsibility of Customer.

THE TERMS AND CONDITIONS OF THE VULCAN SALES DOCUMENTS GOVERN THE RIGHTS AND OBLIGATIONS OF THE PARTIES

If Customer has issued a purchase order for the materials quoted by Vulcan in this Quotation, this Quotation is not an acceptance of said purchase order, or any of its terms or conditions, which are hereby rejected. Any sale by Vulcan to Customer of the materials listed in this Quotation shall be subject to the terms and conditions set forth in the Vulcan Sales Documents, and Customer's receipt or acceptance of said materials shall constitute acceptance of the offer that this Quotation constitutes. Any terms or conditions of a subsequent purchase order issued by Customer that are inconsistent with the terms and conditions of the Vulcan Sales Documents shall be null and void.

SHIPMENT AND DELIVERY

Unless a "delivered" price is quoted by Vulcan in the Vulcan Sales Documents, all prices are F.O.B. point of shipment from the locations designated. All taxes applicable to the sale or delivery of materials that are not paid directly by Customer will be added to the sales price, invoiced to and paid by Customer, unless Customer provides Vulcan with satisfactory evidence of exemption from same. Shipment will be in accordance with Customer's reasonable instructions or, if none, then by whatever means Vulcan shall deem practicable. The quantities of material delivered to Customer shall be conclusively presumed to be the quantities shown on the tickets produced from a certified weigh scale at Vulcan's quarry or sales yard.

CREDIT AND DEFAULT

Vulcan shall have no obligation to ship or deliver except upon its determination prior to each shipment or delivery that Customer is worthy of the credit to be extended and is not in default upon any obligation to Vulcan. Upon default, Customer agrees to pay all of Vulcan's collection expenses, including attorneys' fees.

INSURANCE

A Memorandum of Insurance containing current information regarding Vulcan's insurance program is available at <https://marshdigital.marsh.com/marshconnect/viewMOI.action?clientId=632529479>.

EXCULPATORY PROVISIONS

Vulcan shall have no liability for delay or failure to make shipments, or delivery, as a result of strikes, labor problems, severe weather conditions, casualty, mechanical breakdown or other conditions beyond Vulcan's reasonable control. In no event shall Vulcan be liable for any incidental or consequential damages. Vulcan's liability and Customer's exclusive remedy for any cause of action arising out of the provision of material quoted herein shall be the replacement of, or payment of the purchase price for, the materials which are the subject of this Quotation.

CHANGE OF TERMS

Vulcan may change the price and/or quantity upon 30 days' notice to Customer. Vulcan shall also have right to change, modify or amend any other terms and conditions upon written notice of such change to customer. The effect of the change shall be as stated in the written notice and accepted by Customer upon placing of orders with seller following receipt of such notice.

APPLICABLE LAW

All orders are subject to acceptance by Vulcan at the headquarters of its Mountain West Division in Phoenix, Arizona, and the laws of the state in which the materials was shipped from shall apply to the sale of all materials subject hereto. In the event material is imported into the U.S., the law in the state in which the material was sold to the customer will prevail. All disputes regarding finance charges shall be governed by Alabama law.

LIMITED WARRANTY AND WARRANTY DISCLAIMER

Vulcan warrants for a period of one (1) year from date of delivery only that the material sold hereunder substantially complies with Vulcan's specifications for said material or the specifications set forth in Vulcan's quotation. **VULCAN HEREBY EXCLUDES ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PURPOSE, AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF THE MATERIAL SOLD HEREUNDER, OTHER THAN THE EXPRESS WARRANTY STATED ABOVE.** In addition, except to the extent otherwise set forth in the specifications described above, Vulcan makes no warranty whatsoever with respect to specific gravity, absorption, whether the material is innocuous, non-deleterious, or non-reactive, or whether the material is in conformance with any plans, other specifications, regulations, ordinances, statutes, or other standards applicable to Customer's job or to said material as used by Customer. **VULCAN SHALL IN NO EVENT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE CAUSED BY NON-COMPLIANCE OF THE MATERIAL WITH SPECIFICATIONS, OR FOR ANY DEFECTS IN THE MATERIAL SOLD HEREUNDER.**

From: Stacey O'Connell <Stacey.Oconnell@martinmarietta.com>
Sent: Tuesday, May 3, 2022 10:28 AM
To: Mark McLafferty
Subject: RE: CHANDLER HEIGHTS RELOCATES

Mark,

Right now we are only pricing product out thru end of May 2022 due to oil pricing fluctuation; and no escalators available. I can offer a budget number of \$110 per ton ½ EVAC (or ¾) thru June. Beyond that would need to be rebid. Im sorry we could not be more firm with our pricing at this time. Please let me know if you have any questions.

Thank you,

Stacey Lee O'Connell
Asphalt Sales Executive

Martin Marietta

Asphalt & Aggregate Dispatch (602) 685-3450

Cell: 480-364-9293

Personal Cell: 602-705-7947

stacey.oconnell@martinmarietta.com

www.martinmarietta.com



From: Brian Clark <Brian.Clark@martinmarietta.com>
Sent: Monday, May 2, 2022 3:21 PM
To: Stacey O'Connell <Stacey.Oconnell@martinmarietta.com>; 'Mark McLafferty' <MMcLafferty@achen.com>
Cc: Scott Bollinger <Scott.Bollinger@martinmarietta.com>
Subject: FW: CHANDLER HEIGHTS RELOCATES

Stacey, will you please take a look at the below request from Achen and get Mark some pricing.

Thank ou,

Brian Clark
Sales Representative | Phoenix, AZ



Martin Marietta

4025 S. McClintock Dr., Suite 202

Tempe, Arizona 85282

Concrete Dispatch (602) 685-3400 M. 480-639-7165

E. brian.clark@martinmarietta.com

www.martinmarietta.com

From: Mark McLafferty <MMcLafferty@achen.com>

Sent: Monday, May 2, 2022 1:40 PM

To: Brian Clark <Brian.Clark@martinmarietta.com>

Subject: CHANDLER HEIGHTS RELOCATES

EXTERNAL EMAIL

Brian,

Can you give me pricing for ¾" & ½" for a CMAR w/ Chandler. Location is Chandler Heights Rd., Arizona Ave to Alma School. Total amount will be around 2,000 tons. I need pricing to hold through the end of the year. Please let me know if you have any questions or need anything else. Thanks.

Mark McLafferty

ESTIMATOR

Office: 480.940.1300 | Cell: 602.877.9329 | [Email: mmclafferty@achen.com](mailto:mmclafferty@achen.com)

ACHEN-GARDNER CONSTRUCTION

100% EMPLOYEE OWNED

550 South 79th Street | Chandler, AZ 85226

2425 West Wave Hill Court | Tucson, AZ 85705

achen.com | [facebook](https://www.facebook.com/achenconstruction) | [twitter](https://twitter.com/achenconstruction) | [linkedin](https://www.linkedin.com/company/achenconstruction) | [instagram](https://www.instagram.com/achenconstruction) | [youtube](https://www.youtube.com/channel/UCvQvQvQvQvQvQvQvQvQvQvQ)

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From: Gary Slone <gslone@fisherind.com>
Sent: Friday, March 25, 2022 2:00 PM
To: Mark McLafferty
Subject: RE: ACHEN GARDNER (CHANDLER HEIGHTS RD UTILITY RELOCATIONS (CMAR) PACKAGE 3)

Hey Mark.

\$90.50 TN A1/2" or A3/4" PG70-10
Add \$15.00 TN PG70-16TR+
Add \$22.00 TN PG76-22 PMTR+
Delivered through 12/31/22



Gary Slone
Southwest Asphalt
Mobile 480.217.0599
Email GSlone@Fisherind.com

From: Mark McLafferty <MMcLafferty@achen.com>
Sent: Friday, March 25, 2022 10:18 AM
To: Gary Slone <gslone@fisherind.com>
Subject: ACHEN GARDNER (CHANDLER HEIGHTS RD UTILITY RELOCATIONS (CMAR) PACKAGE 3)

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

Location of project is Chandler Heights Rd (Arizona Ave to Alma School). This is the final package to be completed in 2022. This work will occur from August through December 2022. Please include escalations. I need pricing for this package by 4/10/22.

Please let me know if you have any questions or need anything else. Thanks.

Mark

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disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

Quote Analysis Report

Achen-Gardner Construction, LLC 71
39381003-2

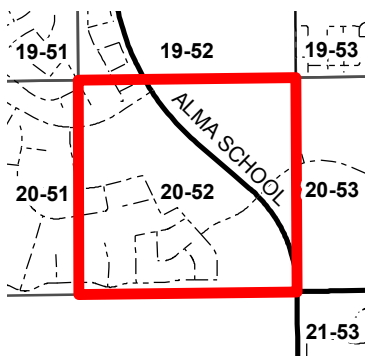
Mark McLafferty
CHANDLER HEIGHTS RD PACKAGE 3 GMP FINAL

Page 1 of 1
5/20/2022 3:25 PM

BYPASS BYPASS

Vendor Code							CAPITALPUMPE	RAINFORRENT
Vendor Name							Capital Pump &	Rain For Rent
Vendor Phone							4806265257	4808959225
Bid	Activity	Resource	Desc	Quan	Unit	Plug Price	Unit Price	Unit Price
110	2051090	4BYPASSPUMP	BYPASS PUMPING	1.00	LS	0.0000	700,620.0000	1,047,961.0000
Quoted Amount							700,620	1,047,961
Plugged Amount							0	0
Bond							0	0
Mobilization							0	0
% Adjustment							0	0
\$ Adjustment							0	0
Total Adjustment							0	0
Totals						0	700,620	1,047,961
Diff From Plug							700,620	1,047,961
Total Minority							0	0

A 'P' beside a price indicates a plug price.
Green background indicates that the vendor is selected.



WASTEWATER COLLECTION

20-52

MANHOLES

- GPS VERIFIED
- NOT VERIFIED

CLEANOUTS

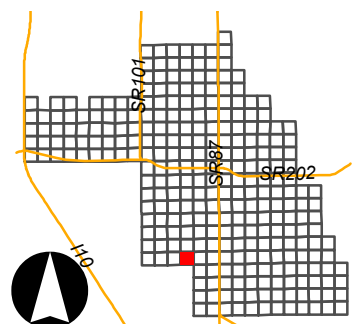
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- NOT VERIFIED

MAINS

- ACTIVE
- DESIGN
- PRIVATE

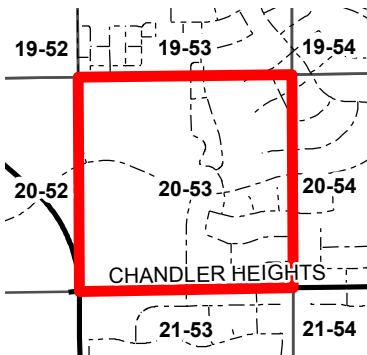
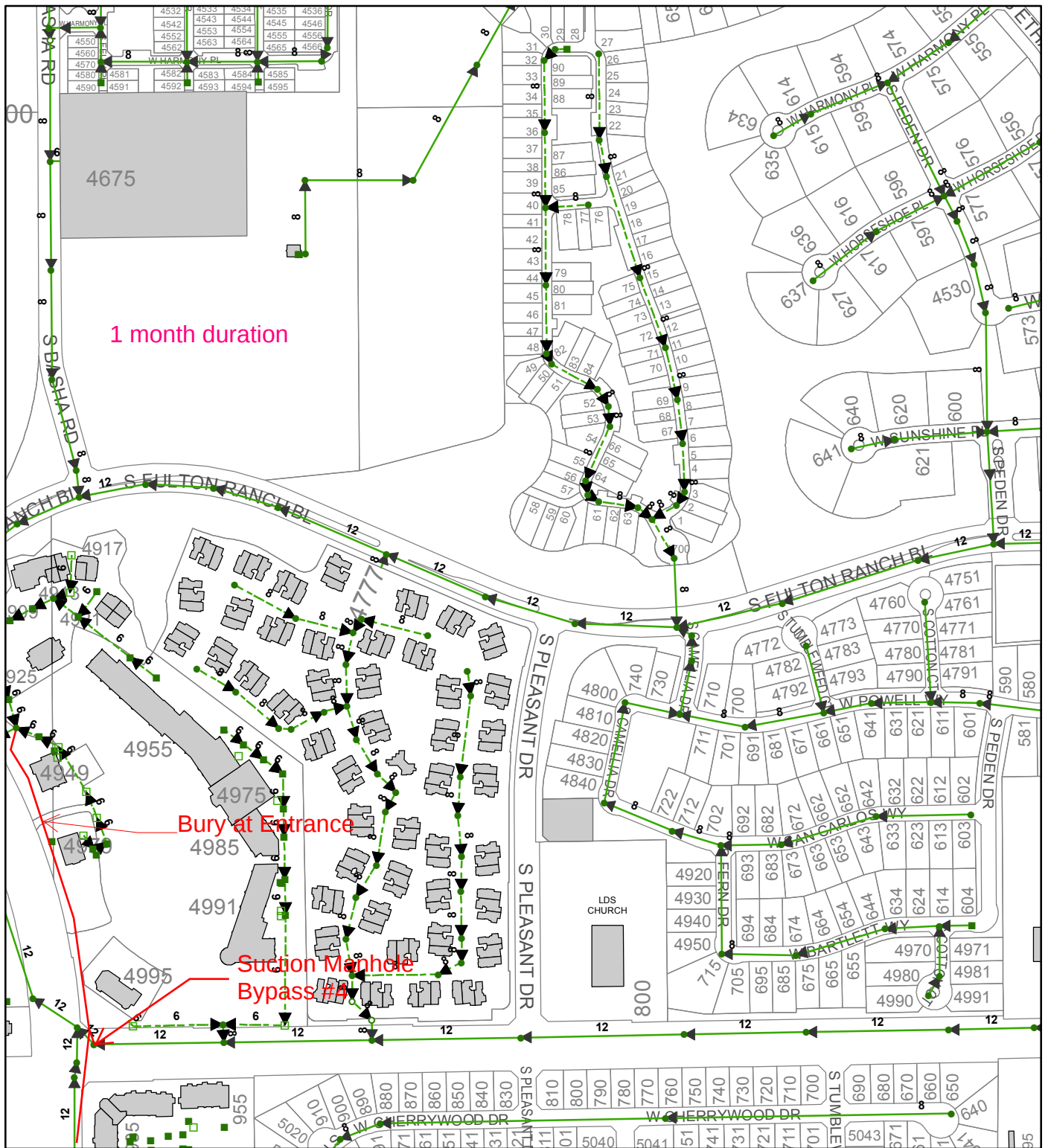
400 200 0 Feet

THIS QUARTER SECTION MAP WAS COMPILED FROM EXISTING AVAILABLE RECORDS. THE CITY OF CHANDLER WILL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MIGHT OCCUR. INDEPENDENT VERIFICATION IS RECOMMENDED.



(10/21/2021)

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WASTEWATER COLLECTION

20-53

MANHOLES

- GPS VERIFIED
- NOT VERIFIED

CLEANOUTS

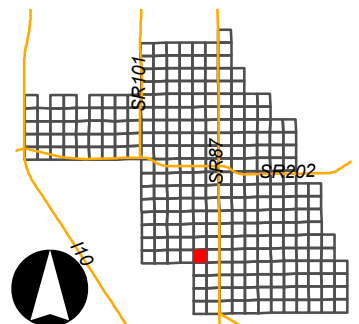
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MAINS

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- DESIGN
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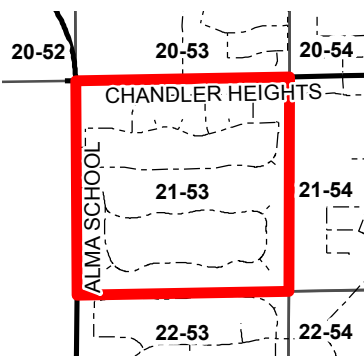
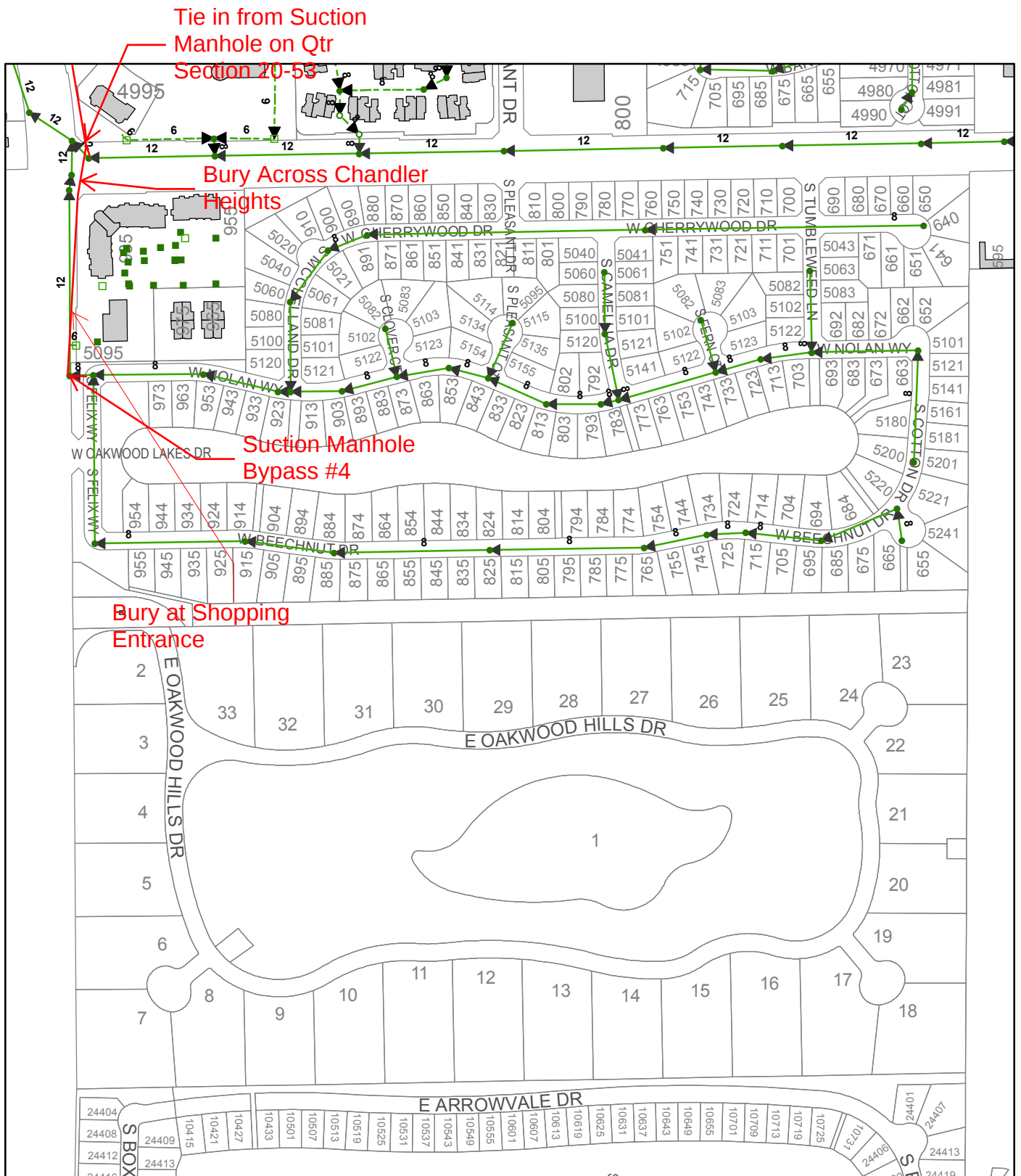
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THIS QUARTER SECTION MAP WAS COMPILED FROM EXISTING AVAILABLE RECORDS. THE CITY OF CHANDLER WILL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MIGHT OCCUR. INDEPENDENT VERIFICATION IS RECOMMENDED.



(10/21/2021)

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WASTEWATER COLLECTION

21-53

MANHOLES

- GPS VERIFIED
- NOT VERIFIED

CLEANOUTS

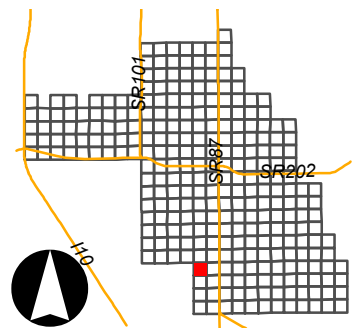
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MAINS

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- DESIGN
- PRIVATE

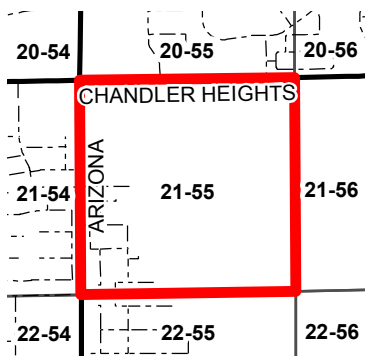
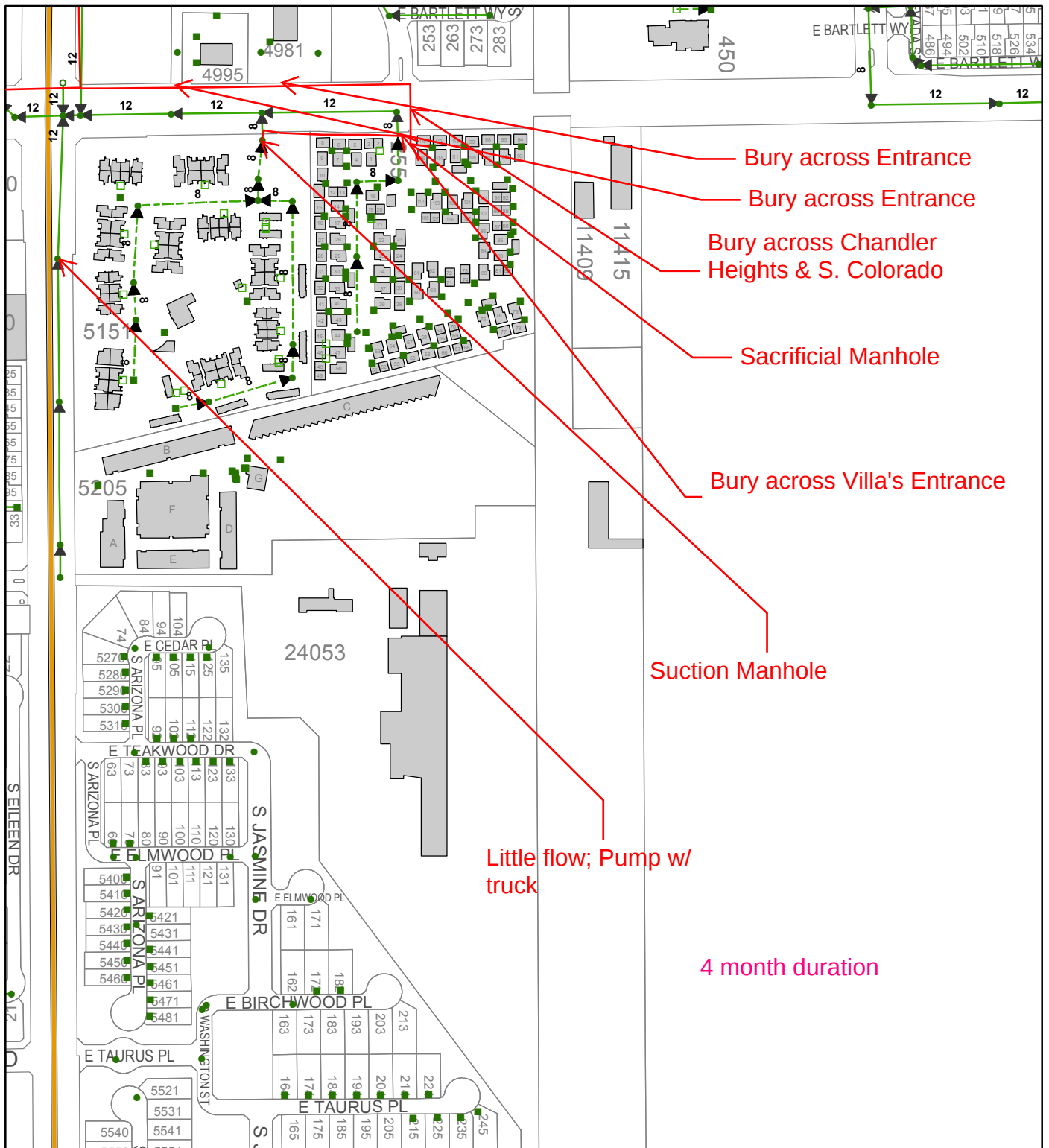
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(10/21/2021)

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WASTEWATER COLLECTION

21-55

MANHOLES

- GPS VERIFIED
- NOT VERIFIED

CLEANOUTS

- GPS VERIFIED
- NOT VERIFIED

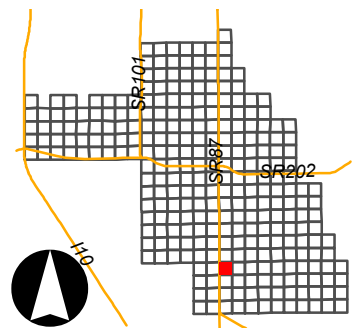
MAINS

- ACTIVE
- DESIGN
- PRIVATE

400 200 0 Feet

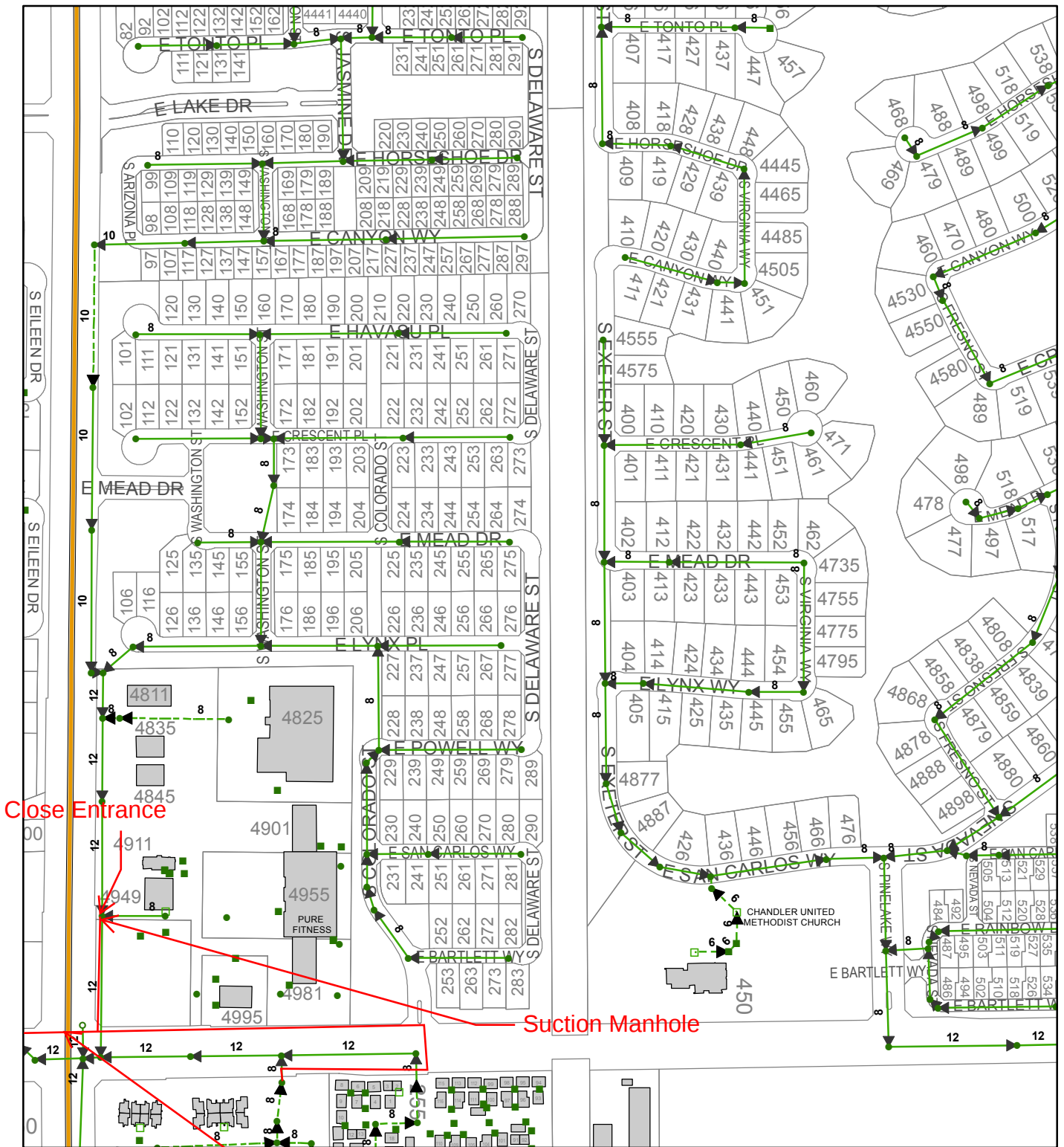


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(10/21/2021)

N:\GIS\DATA\MAPBOOKS



Bury across Arizona Ave

WASTEWATER COLLECTION

20-55

MANHOLES

- GPS VERIFIED
- NOT VERIFIED

CLEANOUTS

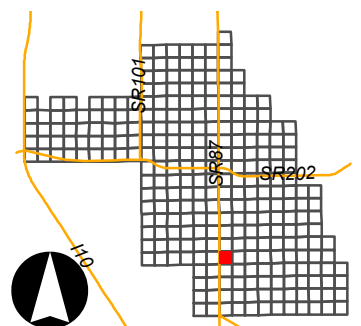
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MAINS

- ACTIVE
- DESIGN
- PRIVATE

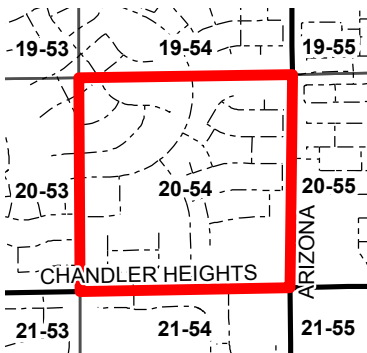
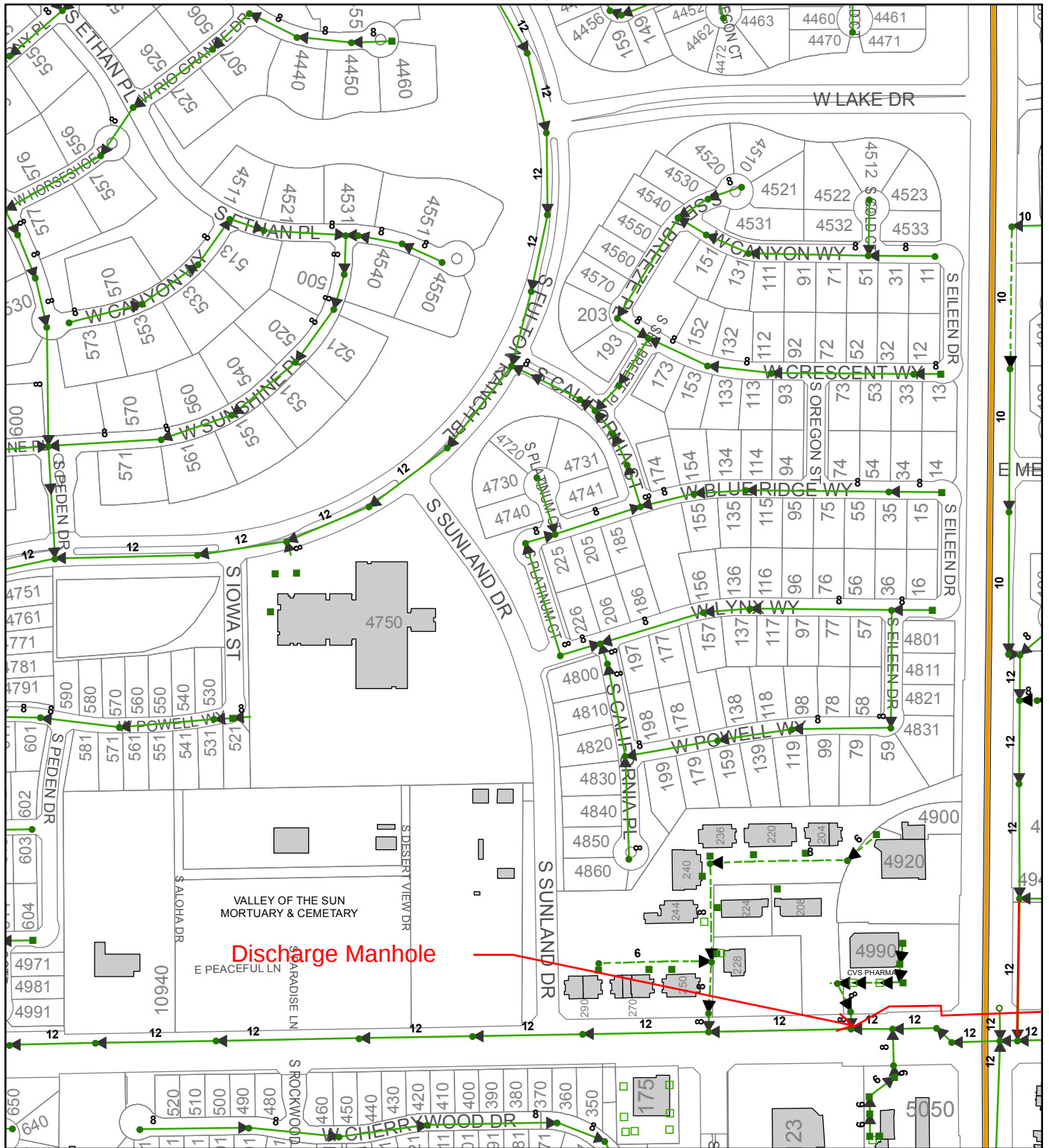
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(10/21/2021)

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WASTEWATER COLLECTION

20-54

MANHOLES

- GPS VERIFIED
- NOT VERIFIED

CLEANOUTS

- GPS VERIFIED
- NOT VERIFIED

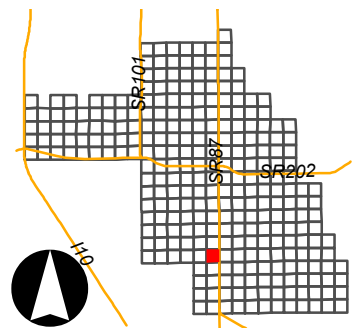
MAINS

- ACTIVE
- DESIGN
- PRIVATE

400 200 0 Feet



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(10/21/2021)

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9229 S Hardy Drive Tempe, AZ 85284
 Phone: 480-626-5257 Email: Sales@cpepumps.com

Quote #: CP22-602

Job Name: Chandler Heights Rd.
 Utility Relocations
Bypass 1

Customer: Achen Gardner
 550 S. 79th St.
 Chandler AZ

Contact: Mark McLafferty
Phone: 602-877-9392
Email: MMcLaffertyt@achen.com

Location: Snedigar Sports Complex
 Chandler AZ

Rental Equipment				RATES			
Qty	Unit	Rental Period	Description	Day	Week	4 Week	Total
1	ea	Week	800 Gallon Vac. Trailer and P/U Truck		\$ 2,602.50		\$ 2,602.50
14	Day		Est. Fuel 30 Gal. per Day @ \$6.25 per Gal.	\$ 187.50			\$ 2,625.00
14	Day		1 Man 12/7 Pump Watch @ \$60.00 per Hr.	\$ 720.00			\$ 10,080.00

QUANTITIES ARE ESTIMATES	2 Week Rental Total	\$ 17,910.00
QUANTITIES USED WILL BE BILLED		
	Daily trip charge \$75.00 x 14	\$ 1,050.00
	Estimated Sale Tax	\$ 223.82
	ESTIMATE TOTAL	\$18,960.00

Prepared by: Jerry Sheatz

Accepted by:

Date: Thursday, April 7, 2022
 Subject to Terms and Conditions on Page 2

Date:
 Estimate valid for 30 days from issuance date



Capital Pump & Equipment

9229 S Hardy Drive Tempe, AZ 85284
Phone: 480-626-5257 Email: Sales@cpepumps.com

Quote #: CP22-591

Job Name: Chandler Heights Rd.
Utility Relocations
Bypass 2&3

Customer: Achen Gardner
550 S. 79th St.
Chandler AZ

Contact: Mark McLafferty
Phone: 602-877-9392
Email: MMcLaffertyt@achen.com

Location: S. Fulton Ranch Blvd. & Alam School Rd.
Chandler AZ

Rental Equipment				RATES			
Qty	Unit	Rental Period	Description	Day	Week	4 Week	Total
2	ea	4 Week	4" x 4" Silenced Pump	\$ 210.00	\$ 630.00	\$ 1,890.00	\$ 3,780.00
2	ea	4 Week	10' X 12' Spill Berms	\$ 16.67	\$ 50.00	\$ 150.00	\$ 300.00
1100	ft	4 Week	6" SDR17 HDPE Pipe	\$ 0.08	\$ 0.24	\$ 0.72	\$ 792.00
4	ea	4 Week	4" X 20' Suction Hoses	\$ 13.33	\$ 40.00	\$ 120.00	\$ 480.00
1	ea	4 Week	6' x 6" Bridges	\$ 45.00	\$ 135.00	\$ 405.00	\$ 405.00
2	ea	4 Week	12' x 6" Bridges	\$ 50.00	\$ 150.00	\$ 450.00	\$ 900.00
1	ea	4 Week	Misc. Pipe, Hose & Fittings	\$ 33.33	\$ 100.00	\$ 300.00	\$ 300.00
1	ea.	Sale	Engineer Stamped Bypass Plans	\$ 950.00			\$ 950.00
28	Day		Est. Fuel 30 Gal. per Day @ \$6.25 per Gal.	\$ 187.50			\$ 5,250.00
28	Day		1 Man 24/7 Pump Watch @ \$60.00 per Hr.	\$ 1,440.00			\$ 40,320.00

QUANTITIES ARE ESTIMATES	4 Week Rental Total	\$ 53,477.00
QUANTITIES USED WILL BE BILLED		

** This system is designed to deliver 450 GPM@ 35' TDH with 100% redundancy on pumps only **	Delivery	\$ 340.00
	Pick-up	\$ 340.00
	Estimated Install Labor	\$ 2,800.00
	Pump Relcation 2 to 3	\$ 975.00
** Overtime charges do not apply **	Estimated Removal Labor	\$ 1,250.00
	Estimated Sale Tax	\$ 598.30

ESTIMATE TOTAL **\$59,182.00**

Prepared by: Jerry Sheatz

Accepted by:

Date: Tuesday, April 5, 2022

Date:

Subject to Terms and Conditions on Page 2

Estimate valid for 30 days from issuance date



Capital Pump & Equipment

9229 S Hardy Drive Tempe, AZ 85284
Phone: 480-626-5257 Email: Sales@cpepumps.com

Quote #: CP22-594

Job Name: Chandler Heights Rd.
Utility Relocations
Bypass 4

Customer: Achen Gardner
550 S. 79th St.
Chandler AZ

Contact: Mark McLafferty
Phone: 602-877-9392
Email: MMcLaffertyt@achen.com

Location: Chandler Heights & Alam School Rd.
Chandler AZ

Rental Equipment				RATES			
Qty	Unit	Rental Period	Description	Day	Week	4 Week	Total
8	ea	4 Week	4" x 4" Silenced Pump	\$ 210.00	\$ 630.00	\$ 1,890.00	\$ 15,120.00
8	ea	4 Week	10' X 12' Spill Berms	\$ 16.67	\$ 50.00	\$ 150.00	\$ 1,200.00
700	ft	4 Week	6" SDR17 HDPE Pipe	\$ 0.08	\$ 0.24	\$ 0.72	\$ 504.00
500	ft	4 Week	8" SDR17 HDPE Pipe	\$ 0.10	\$ 0.30	\$ 0.90	\$ 450.00
4	ea	4 Week	4" X 20' Suction Hoses	\$ 13.33	\$ 40.00	\$ 120.00	\$ 480.00
2	ea	4 Week	6' x 6" Bridges	\$ 45.00	\$ 135.00	\$ 405.00	\$ 810.00
2	ea	4 Week	28' x 6" Bridges	\$ 60.00	\$ 180.00	\$ 540.00	\$ 1,080.00
1	ea	4 Week	Misc. Pipe, Hose & Fittings	\$ 33.33	\$ 100.00	\$ 300.00	\$ 300.00
1	ea.	Sale	Engineer Stamped Bypass Plans	\$ 950.00			\$ 950.00
28	Day		Est. Fuel 90 Gal. per Day @ \$6.25 per Gal.	\$ 562.50			\$ 15,750.00
28	Day		2 Man 24/7 Pump Watch @ \$120.00 per Hr.	\$ 2,880.00			\$ 80,640.00

QUANTITIES ARE ESTIMATES

4 Week Rental Total

\$ 117,284.00

QUANTITIES USED WILL BE BILLED

** Each pump station is designed to deliver 450 GPM@ 35' TDH with 100% redundancy on pumps only **	Delivery	\$ 600.00
	Pick-up	\$ 600.00
** Overtime charges do not apply **	Estimated Install Labor	\$ 5,300.00
	Estimated Removal Labor	\$ 1,475.00
	Estimated Sale Tax	\$ 1,715.18

ESTIMATE TOTAL

\$125,259.00

Prepared by: Jerry Sheatz

Accepted by:

Date: Wednesday, April 6, 2022

Date:

Subject to Terms and Conditions on Page 2

Estimate valid for 30 days from issuance date



Capital Pump & Equipment

9229 S Hardy Drive Tempe, AZ 85284
Phone: 480-626-5257 Email: Sales@cpepumps.com

Quote #: CP22-600

Job Name: Chandler Heights Rd.
Utility Relocations
Bypass 5

Customer: Achen Gardner
550 S. 79th St.
Chandler AZ

Contact: Mark McLafferty
Phone: 602-877-9392
Email: MMcLaffertyt@achen.com

Location: Chandler Heights & Arizona Ave
Chandler AZ

Rental Equipment				RATES			
Qty	Unit	Rental Period	Description	Day	Week	4 Week	Total
6	ea.	4 Week	4" x 4" Silenced Pump	\$ 210.00	\$ 630.00	\$ 1,890.00	\$ 11,340.00
1	ea.	4 Week	800 Gallon Vac. Trailer and P/U Truck	\$ 867.50	\$ 2,602.50	\$ 7,807.50	\$ 7,807.50
6	ea.	4 Week	10' X 12' Spill Berms	\$ 16.67	\$ 50.00	\$ 150.00	\$ 900.00
700	ft	4 Week	6" SDR17 HDPE Pipe	\$ 0.08	\$ 0.24	\$ 0.72	\$ 504.00
1500	ft	4 Week	8" SDR17 HDPE Pipe	\$ 0.10	\$ 0.30	\$ 0.90	\$ 1,350.00
6	ea.	4 Week	4" X 20' Suction Hoses	\$ 13.33	\$ 40.00	\$ 120.00	\$ 720.00
2	ea.	4 Week	6' x 6" Bridges	\$ 45.00	\$ 135.00	\$ 405.00	\$ 810.00
2	ea.	4 Week	28' x 6" Bridges	\$ 60.00	\$ 180.00	\$ 540.00	\$ 1,080.00
1	ea.	4 Week	Misc. Pipe, Hose & Fittings	\$ 33.33	\$ 100.00	\$ 300.00	\$ 300.00
1	ea.	Sale	Engineer Stamped Bypass Plans	\$ 950.00			\$ 950.00
28	Day		Est. Fuel 90 Gal. per Day @ \$6.25 per Gal.	\$ 562.50			\$ 15,750.00
28	Day		2 Man 24/7 Pump Watch @ \$120.00 per Hr.	\$ 2,880.00			\$ 80,640.00

QUANTITIES ARE ESTIMATES

QUANTITIES USED WILL BE BILLED

~~4 Week Rental Total~~ ~~\$ 122,151.50~~

16 WEEK RENTAL TOTAL \$487,656.00

**** Each pump station is designed to deliver 450 GPM@ 35' TDH
with 100% redundancy on pumps only ****

Delivery \$ 490.00

Pick-up \$ 490.00

**** Overtime charges do not apply ****

Estimated Install Labor \$ 5,200.00

Estimated Removal Labor \$ 1,250.00

Estimated Sale Tax \$ 2,133.79

ESTIMATE TOTAL ~~\$129,581.50~~

\$497,219.00

Prepared by: Jerry Sheatz

Accepted by:

Date: Wednesday, April 6, 2022
Subject to Terms and Conditions on Page 2

Date:
Estimate valid for 30 days from issuance date

BYPASS1 \$18,960
BYPASS 2&3 \$59,182
BYPASS 4 \$125,259
BYPASS 5 \$497,219
\$700,620



Rain For Rent
26001 S Arizona Ave
Chandler, AZ, 85248
480-895-9225
rainforrent.com
JWILSON@rainforrent.com

Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017223 for (1/9) Snedigar- Chandler CMAR Pkg 3. We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017223	Project Name	(1/9) Snedigar- Chandler CMAR Pkg 3
Date Prepared	4/12/2022	Est. Delivery Date	5/9/2022
Prevailing Wage	No	Est. Completion Date	6/13/2022

Project Location
Snedigar Park MH Chandler, AZ, 85226
Project Summary
Pump Truck to service low flow MH on-call.

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:
Scheduling 3rd party vendor to provide MH suction/disposal as needed.

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:
Plans, job walk, customer meeting wherein Customer stated preference for Vac-Truck service was received.

Operating Parameters

3rd Party Vac-Truck service to empty and dispose of sewage from inside Snedigar Park MH.
Services ordered as needed by Pump Station operator at Fulton Rd.

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. **Providing safe, secure access and egress to the serviced Manhole. Access is defined as an unlocked gate for 24/7 access as needed when MH needs to be emptied.**
4. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
5. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).

System:

1. Customer will provide dedicated contact person to notify when services are required to access the suction manhole..
2. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be provided at an additional charge.
3. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.



Customer is responsible for:

1. Additional cost associated with 3rd party vendor work in confined spaces, if required.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Customer is responsible for any residual fluids in system once project is concluded to remove and properly dispose of.

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule End of Operations.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires a fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 2-3 day advance notice required

Operation: 5 hour minimum

RFR to determine service quantities and intervals.

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the services.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017223

SERVICE ITEMS	
Description	Price
SERVICE 3rd Party MH Pumping per visit.	\$2,630.00
Service Total	\$2,630.00



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017223

SERVICES		
Estimated Services		\$2,630.00
GRAND TOTAL		\$2,630.00

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

Engine driven equipment will be delivered with at least 50% fuel. A Fuel Convenience Charge will be implemented on a per gallon basis up to the delivered fuel level. Customer acknowledges that the Fuel Convenience Charge is not a retail sale of fuel. Customer may avoid the Fuel Convenience Charge if the Customer returns the Equipment at delivered level. The fuel convenience fee will be charged per gallon. No refunds will be given for a higher level of fuel upon return.

Customer Name

Customer Signature

Date

Proposal Acknowledgement

By signing this proposal, customer represents that he/she has read and agreed to both the Statement of Work and Quote Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if accepted and initialed. If customer requires a Purchase Order number to process and submit payment, it must be supplied to Rain for Rent at the time of acceptance of this proposal.

PO Number:

Created Date: 4/6/2022



Quote Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between these terms and conditions of this Quotation Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail. Availability of products and services is subject to change without notice. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice. A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <https://www.eia.gov/petroleum/gasdiesel>. An Environmental Recovery Fee shall apply to all rental charges invoiced for the duration of the rental pursuant to this quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses. California Air Quality Fee will be added to the cost of diesel pumps used in California only. This is a State mandated fee. Customer is prohibited from deducting retention from Rain for Rent invoices and charging Rain for Rent liquidated damages. Customer is responsible for flushing and cleaning tanks, roll off boxes, pipelines, pumps, filters and other Rain for Rent equipment prior to return unless specifically agreed to by both parties in writing. The Terms and Conditions of the Rain For Rent Rental and Hazardous Material and/or Non-Hazardous Waste Agreement, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain for Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain for Rent unless made in writing and signed by a Rain for Rent Corporate Officer or Rain for Rent authorized representative. The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. All returned equipment is subject to inspection by Rain for Rent personnel. Damages and accrued rent will be invoiced to Customer while equipment is out of service for repairs. The Customer is responsible for damage caused by reactive, corrosive or abrasive material; including, but not limited to sand, sodium hydroxide, chlorine, and acids. Customer must notify Rain for Rent immediately of any spill so that any necessary repairs to the system can be made and to minimize service interruption. The Customer assumes all risks of loss due to operation and use of the equipment. Customer will provide "all risk" property insurance for rented equipment. Customer shall pay Rain for Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, waterlines, drain pipes, underground electrical conduits or other above ground or underground obstructions. All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Sold equipment is not to be rented. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted. All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warrants the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective. This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain for Rent's prices. De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence. This Quotation is valid for 30 days and is subject to credit approval. Rain for Rent will take every effort to protect our customers and employees. Due to the current pandemic, all quoted equipment and services are subject to delay, change, or unilateral cancellation by Rain for Rent. Please be assured every effort will be made to execute the quote as written. The customer is responsible to inform Rain for Rent of any jobsite hazards, precautions, or entry requirements relating to the Corona Virus prior to Rain for Rent personnel going onsite to perform work or deliver equipment. This includes informing Rain for Rent if anyone at the jobsite has tested positive and provide a list of actions taken to protect Rain for Rent personnel.



Rain For Rent
26001 S Arizona Ave
Chandler, AZ, 85248
480-895-9225
rainforrent.com
JWILSON@rainforrent.com

Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017234 for (2/9) BP #2a Fulton Rd.. We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017234	Project Name	(2/9) BP #2a Fulton Rd.
Date Prepared	4/12/2022	Est. Delivery Date	5/30/2022
Prevailing Wage	No	Est. Completion Date	5/30/2022

Project Location

Fulton Rd east of Alma School

Project Summary

1000 ft. discharge.

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:
Delivery, installation, operation, removal, pickup of all quoted materials/equipment

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:
Plans, Phone Calls, Engineering Documents, Job Walk(s)

Operating Parameters

Fulton Rd. Sewer bypass designed to convey approximately 1000-1100 peak GPM.
Suction lift 18 ft fluid level to grade
2 ea DV150i 6" pumps with independent suction hoses.
1000 ft common 6" HDPE discharge pipe mechanically coupled.
Aerial bypass illustration included with quotation.

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. Providing safe, secure access and egress to an adequate staging area throughout the job which could include brush clearing, grading, and removal or replacement of any landscape or hardscape in the temporary right of way for the equipment.
4. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
5. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).
6. Spill response plan
7. Portable toilet nearby pump station.
8. Odor Control Method/Mean.

System:

1. RFR will provide dedicated equipment with operator and fuel to perform all needed unloading, testing, operations, maintenance, relocating, cleaning, and reloading of provided equipment/system.
2. RFR will provide 24/7 pump operation and troubleshooting.



3. Customer will provide fueling.
4. Customer will provide preventative maintenance as recommended by manufacturer or per the Rental Agreement. <https://rainforrentcorp.box.com/v/pumpmaintenance>
5. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be provided at an additional charge.
6. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.

Customer is responsible for:

1. Any work in confined spaces.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Customer shall provide water for equipment flushing prior to end of operation and rental release

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule pickup when equipment/system is cleaned and ready to be released.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires an fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 1 day
Operation: 28-days
Removal/Demobilization: 1 day
System Rental Duration: 28-days

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the installation.
Additional billing as of rental release date or end of rental cycle.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017234

Sewer Bypass 2a from Fulton Pkwy 1000 ft to discharge MH.

1 ea 28-day equipment rental = \$6,329.80

1 ea 28-day 1-man 24/7 pump station operation = \$42,824.00

Details in Statement of Work



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017234

Liquid Ingenuity®

PROJECT COSTS		
Estimated Rental Total		\$6,329.80
Estimated Environmental Recovery Fees		\$205.73
Total Estimated Recurring Charges		\$6,535.53
SERVICES		
Estimated Installation		\$2,049.08
Estimated Removal		\$1,211.20
Estimated Services		\$42,824.00
GRAND TOTAL		\$52,619.81

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

Engine driven equipment will be delivered with at least 50% fuel. A Fuel Convenience Charge will be implemented on a per gallon basis up to the delivered fuel level. Customer acknowledges that the Fuel Convenience Charge is not a retail sale of fuel. Customer may avoid the Fuel Convenience Charge if the Customer returns the Equipment at delivered level. The fuel convenience fee will be charged per gallon. No refunds will be given for a higher level of fuel upon return.

Customer Name

Customer Signature

Date

Proposal Acknowledgement

By signing this proposal, customer represents that he/she has read and agreed to both the Statement of Work and Quote Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if accepted and initialed. If customer requires a Purchase Order number to process and submit payment, it must be supplied to Rain for Rent at the time of acceptance of this proposal.

PO Number:

Rental Protection Plan

I have received and reviewed the Rental Protection Plan Agreement incorporated as the last page of this estimate. By initialing this paragraph, I understand that I am agreeing to enter into and be bound by the terms of the Rental Protection Plan Program Agreement and that I am authorized to enter into this Agreement on behalf of Customer. FOR ALL RENTALS OF EQUIPMENT, EXCEPT THOSE SPECIFICALLY EXCLUDED, YOU MAY EITHER SHOW PROOF OF PROPERTY INSURANCE IN ACCORDANCE WITH INSURANCE REQUIREMENTS AND RENTAL AGREEMENT OR PURCHASE THE RENTAL PROTECTION. THE PURCHASE OF THE RENTAL PROTECTION PLAN FOR RENTALS OF EQUIPMENT IS NOT MANDATORY AND MAY BE DECLINED IF YOU HAVE PROOF OF ALL RISK PROPERTY INSURANCE AS REQUIRED BY CONTRACT.

RPP	\$823.17	
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Created Date: 4/6/2022



Quote Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between these terms and conditions of this Quotation Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail. Availability of products and services is subject to change without notice. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice. A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <https://www.eia.gov/petroleum/gasdiesel>. An Environmental Recovery Fee shall apply to all rental charges invoiced for the duration of the rental pursuant to this quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses. California Air Quality Fee will be added to the cost of diesel pumps used in California only. This is a State mandated fee. Customer is prohibited from deducting retention from Rain for Rent invoices and charging Rain for Rent liquidated damages. Customer is responsible for flushing and cleaning tanks, roll off boxes, pipelines, pumps, filters and other Rain for Rent equipment prior to return unless specifically agreed to by both parties in writing. The Terms and Conditions of the Rain For Rent Rental and Hazardous Material and/or Non-Hazardous Waste Agreement, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain for Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain for Rent unless made in writing and signed by a Rain for Rent Corporate Officer or Rain for Rent authorized representative. The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. All returned equipment is subject to inspection by Rain for Rent personnel. Damages and accrued rent will be invoiced to Customer while equipment is out of service for repairs. The Customer is responsible for damage caused by reactive, corrosive or abrasive material; including, but not limited to sand, sodium hydroxide, chlorine, and acids. Customer must notify Rain for Rent immediately of any spill so that any necessary repairs to the system can be made and to minimize service interruption. The Customer assumes all risks of loss due to operation and use of the equipment. Customer will provide "all risk" property insurance for rented equipment. Customer shall pay Rain for Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, waterlines, drain pipes, underground electrical conduits or other above ground or underground obstructions. All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Sold equipment is not to be rented. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted. All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warranties the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective. This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain for Rent's prices. De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence. This Quotation is valid for 30 days and is subject to credit approval. Rain for Rent will take every effort to protect our customers and employees. Due to the current pandemic, all quoted equipment and services are subject to delay, change, or unilateral cancellation by Rain for Rent. Please be assured every effort will be made to execute the quote as written. The customer is responsible to inform Rain for Rent of any jobsite hazards, precautions, or entry requirements relating to the Corona Virus prior to Rain for Rent personnel going onsite to perform work or deliver equipment. This includes informing Rain for Rent if anyone at the jobsite has tested positive and provide a list of actions taken to protect Rain for Rent personnel.

Rental Protection Plan Program Agreement

If you elect to maintain All Risk Property Insurance coverage, and the certificate of insurance You provide to Rain for Rent to evidence Your insurance coverage expires or is cancelled for any reason, You agree Rain for Rent may charge RPP for Your rentals until such time as You provide an acceptable and valid certificate of insurance to Rain for Rent. This Rental Protection Plan Program Agreement (this "RPP Agreement") is entered into between the undersigned Rentor and Rentee in relation to the Master Rental and Sales Agreement (MRSA) between Rentor and Rentee. If Rentee has checked or initialed, as applicable, the Rental Protection Plan Program (the "RPP Program") box on the quote, then Rentee has opted-in to the RPP Program and this RPP Agreement shall supplement the MRSA whether or not executed by Rentee. Rentee understands and agrees that the RPP Program is not insurance and that the RPP Program provides only limited coverage, as described below. 1. Cost; Deductible; Maximum Coverage; Rentee shall pay a fee equal to 14 percent (14%) of the rental charge for each covered item, which fee shall be listed on each invoice during which period Rentee has opted to participate in the RPP Program. In the event of a Covered Occurrence, as defined below, Rentee shall further be responsible for the lesser of \$500 or 10 percent (10%) of the total loss, as a deductible. The maximum coverage available under the RPP Program is \$150,000 per Covered Occurrence, whether or not there is more than one piece of equipment involved in the occurrence. 2. Coverage; The RPP Program provides coverage only for losses involving Covered Equipment, as defined below, in the following instances: fire that was not caused by Rentee's gross negligence or willful misconduct; theft for which a police report was filed, and that occurred despite Rentee's reasonable precautions to protect and secure the covered equipment; and vandalism for which a police report was filed (individually, "Covered Occurrence," and collectively, "Covered Occurrence"). The RPP Program provides coverage only for the following types of equipment: pumps, electric submersible pumps, tanks, generators, light towers, filtration, boxes, heaters, spillguards, safety products, sprinklers, hoses, pipe, valves and fittings ("Covered Equipment"). Coverage does not extend to any equipment not owned by Rentor such as re-rented equipment. 3. Exclusions; The RPP program does not cover any equipment or event of loss that is not specifically described in Section 2. Without limiting the foregoing, the RPP Program does not provide coverage for the following: misuse of equipment; willful abuse of equipment; failure to maintain equipment; failure to secure items from theft (including but not limited to failing to store items in a fenced, locked area or failing to maintain personnel on site); damage or theft while in transit to or from a jobsite; corrosion from any source; any damage caused by named storm events; any instance that occurs while the account is not in good standing, such as a default as defined in the MRSA or upon written notice of non-payment; and any occurrence not reported to Rentor within 24 hours after the occurrence. The RPP program does not provide coverage for: electronic equipment (controls, instrumentation, and wiring), flow meters, water meters, wheel wash systems & accessories, Freezesentry items, or tires. 4. Claims; All claims must be submitted within 24 hours of the Covered Occurrence. Rentor's mechanic will inspect the equipment following any claim. The mechanic's findings as to the cause of the damage and cost of repair will be final. In the event of a theft or vandalism, Rentee must also provide supporting evidence that the site was secured at the time of loss.



Rain For Rent
26001 S Arizona Ave
Chandler, AZ, 85248
480-895-9225
rainforrent.com
JWILSON@rainforrent.com

Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017235 for (3/9) BP #2b Fulton Town Center. We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017235	Project Name	(3/9) BP #2b Fulton Town Center
Date Prepared	4/12/2022	Est. Delivery Date	5/30/2022
Prevailing Wage	No	Est. Completion Date	5/30/2022

Project Location
Fulton Town Center MH Chandler, az
Project Summary
1100 ft.

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:
Delivery, installation, operation, removal, pickup of all quoted materials/equipment

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:
Plans, Engineering Documents, Job Walk, Customer Meeting

Operating Parameters

6" Sewer line lateral bypass with estimated lateral flow less than 200GPM.
2 ea DV100C pumps (redundancy) with independent 6" suction hose.
Discharging to Fulton Rd. manhole via same 6" HDPE pipe as used by previous bypass.
Discharge pipe shall be partially relocated to suction manhole as shown in Aerial Alignment.
1000 ft of 6" HDPE mechanically coupled pipe.
Aerial bypass illustration included with quote

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. Providing safe, secure access and egress to an adequate staging area throughout the job which could include brush clearing, grading, and removal or replacement of any landscape or hardscape in the temporary right of way for the equipment.
4. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
5. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).

System:

1. RFR will provide dedicated equipment with operator and fuel to perform all needed unloading, testing, operations, maintenance, relocating, cleaning, and reloading of provided equipment/system.
2. Customer will provide fueling.
3. Customer will provide preventative maintenance as recommended by manufacturer or per the Rental



Agreement. <https://rainforrentcorp.box.com/v/pumpmaintenance>

4. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be provided at an additional charge.
5. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.

Customer is responsible for:

1. Any work in confined spaces.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Spill response plan
7. Portable toilet facilities near pump station
8. Odor control plan
9. Customer is responsible for any residual fluids in system once project is concluded to remove and properly dispose of.

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule pickup when equipment/system is cleaned and ready to be released.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires an fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 1 day
Operation: 28-days
Removal/Demobilization: 1 day
System Rental Duration: 28-days

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the installation.
Additional billing as of rental release date or end of rental cycle.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017235

Achen Fulton Bypass 2b

1 ea 28-day equipment rental = \$5,274.72

1 ea 28-day, 1 man 24/7 pump operation= \$42,824.00

Details in Statement of Work



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017235

PROJECT COSTS		
Estimated Rental Total		\$5,274.72
Estimated Environmental Recovery Fees		\$171.45
Total Estimated Recurring Charges		\$5,446.17
SERVICES		
Estimated Removal		\$1,852.20
Estimated Services		\$42,824.00
GRAND TOTAL		\$50,122.37

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

Engine driven equipment will be delivered with at least 50% fuel. A Fuel Convenience Charge will be implemented on a per gallon basis up to the delivered fuel level. Customer acknowledges that the Fuel Convenience Charge is not a retail sale of fuel. Customer may avoid the Fuel Convenience Charge if the Customer returns the Equipment at delivered level. The fuel convenience fee will be charged per gallon. No refunds will be given for a higher level of fuel upon return.

Customer Name

Customer Signature

Date

Proposal Acknowledgement

By signing this proposal, customer represents that he/she has read and agreed to both the Statement of Work and Quote Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if accepted and initialed. If customer requires a Purchase Order number to process and submit payment, it must be supplied to Rain for Rent at the time of acceptance of this proposal.

PO Number:

Rental Protection Plan

I have received and reviewed the Rental Protection Plan Agreement incorporated as the last page of this estimate. By initialing this paragraph, I understand that I am agreeing to enter into and be bound by the terms of the Rental Protection Plan Program Agreement and that I am authorized to enter into this Agreement on behalf of Customer. FOR ALL RENTALS OF EQUIPMENT, EXCEPT THOSE SPECIFICALLY EXCLUDED, YOU MAY EITHER SHOW PROOF OF PROPERTY INSURANCE IN ACCORDANCE WITH INSURANCE REQUIREMENTS AND RENTAL AGREEMENT OR PURCHASE THE RENTAL PROTECTION. THE PURCHASE OF THE RENTAL PROTECTION PLAN FOR RENTALS OF EQUIPMENT IS NOT MANDATORY AND MAY BE DECLINED IF YOU HAVE PROOF OF ALL RISK PROPERTY INSURANCE AS REQUIRED BY CONTRACT.

RPP

\$675.46

Created Date: 4/6/2022



Quote Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between these terms and conditions of this Quotation Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail. Availability of products and services is subject to change without notice. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice. A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <https://www.eia.gov/petroleum/gasdiesel>. An Environmental Recovery Fee shall apply to all rental charges invoiced for the duration of the rental pursuant to this quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses. California Air Quality Fee will be added to the cost of diesel pumps used in California only. This is a State mandated fee. Customer is prohibited from deducting retention from Rain for Rent invoices and charging Rain for Rent liquidated damages. Customer is responsible for flushing and cleaning tanks, roll off boxes, pipelines, pumps, filters and other Rain for Rent equipment prior to return unless specifically agreed to by both parties in writing. The Terms and Conditions of the Rain For Rent Rental and Hazardous Material and/or Non-Hazardous Waste Agreement, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain for Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain for Rent unless made in writing and signed by a Rain for Rent Corporate Officer or Rain for Rent authorized representative. The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. All returned equipment is subject to inspection by Rain for Rent personnel. Damages and accrued rent will be invoiced to Customer while equipment is out of service for repairs. The Customer is responsible for damage caused by reactive, corrosive or abrasive material; including, but not limited to sand, sodium hydroxide, chlorine, and acids. Customer must notify Rain for Rent immediately of any spill so that any necessary repairs to the system can be made and to minimize service interruption. The Customer assumes all risks of loss due to operation and use of the equipment. Customer will provide "all risk" property insurance for rented equipment. Customer shall pay Rain for Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, waterlines, drain pipes, underground electrical conduits or other above ground or underground obstructions. All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Sold equipment is not to be rented. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted. All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warranties the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective. This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain for Rent's prices. De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence. This Quotation is valid for 30 days and is subject to credit approval. Rain for Rent will take every effort to protect our customers and employees. Due to the current pandemic, all quoted equipment and services are subject to delay, change, or unilateral cancellation by Rain for Rent. Please be assured every effort will be made to execute the quote as written. The customer is responsible to inform Rain for Rent of any jobsite hazards, precautions, or entry requirements relating to the Corona Virus prior to Rain for Rent personnel going onsite to perform work or deliver equipment. This includes informing Rain for Rent if anyone at the jobsite has tested positive and provide a list of actions taken to protect Rain for Rent personnel.

Rental Protection Plan Program Agreement

If you elect to maintain All Risk Property Insurance coverage, and the certificate of insurance You provide to Rain for Rent to evidence Your insurance coverage expires or is cancelled for any reason, You agree Rain for Rent may charge RPP for Your rentals until such time as You provide an acceptable and valid certificate of insurance to Rain for Rent. This Rental Protection Plan Program Agreement (this "RPP Agreement") is entered into between the undersigned Rentor and Rentee in relation to the Master Rental and Sales Agreement (MRSA) between Rentor and Rentee. If Rentee has checked or initialed, as applicable, the Rental Protection Plan Program (the "RPP Program") box on the quote, then Rentee has opted-in to the RPP Program and this RPP Agreement shall supplement the MRSA whether or not executed by Rentee. Rentee understands and agrees that the RPP Program is not insurance and that the RPP Program provides only limited coverage, as described below. 1. Cost; Deductible; Maximum Coverage; Rentee shall pay a fee equal to 14 percent (14%) of the rental charge for each covered item, which fee shall be listed on each invoice during which period Rentee has opted to participate in the RPP Program. In the event of a Covered Occurrence, as defined below, Rentee shall further be responsible for the lesser of \$500 or 10 percent (10%) of the total loss, as a deductible. The maximum coverage available under the RPP Program is \$150,000 per Covered Occurrence, whether or not there is more than one piece of equipment involved in the occurrence. 2. Coverage; The RPP Program provides coverage only for losses involving Covered Equipment, as defined below, in the following instances: fire that was not caused by Rentee's gross negligence or willful misconduct; theft for which a police report was filed, and that occurred despite Rentee's reasonable precautions to protect and secure the covered equipment; and vandalism for which a police report was filed (individually, "Covered Occurrence," and collectively, "Covered Occurrence"). The RPP Program provides coverage only for the following types of equipment: pumps, electric submersible pumps, tanks, generators, light towers, filtration, boxes, heaters, spillguards, safety products, sprinklers, hoses, pipe, valves and fittings ("Covered Equipment"). Coverage does not extend to any equipment not owned by Rentor such as re-rented equipment. 3. Exclusions; The RPP program does not cover any equipment or event of loss that is not specifically described in Section 2. Without limiting the foregoing, the RPP Program does not provide coverage for the following: misuse of equipment; willful abuse of equipment; failure to maintain equipment; failure to secure items from theft (including but not limited to failing to store items in a fenced, locked area or failing to maintain personnel on site); damage or theft while in transit to or from a jobsite; corrosion from any source; any damage caused by named storm events; any instance that occurs while the account is not in good standing, such as a default as defined in the MRSA or upon written notice of non-payment; and any occurrence not reported to Rentor within 24 hours after the occurrence. The RPP program does not provide coverage for: electronic equipment (controls, instrumentation, and wiring), flow meters, water meters, wheel wash systems & accessories, Freezesentry items, or tires. 4. Claims; All claims must be submitted within 24 hours of the Covered Occurrence. Rentor's mechanic will inspect the equipment following any claim. The mechanic's findings as to the cause of the damage and cost of repair will be final. In the event of a theft or vandalism, Rentee must also provide supporting evidence that the site was secured at the time of loss.



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rainforrent.com
JWILSON@rainforrent.com

Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017236 for (4/9) BP 3a Chandler Heights E of Alma School. We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017236	Project Name	(4/9) BP 3a Chandler Heights E of Alma School
Date Prepared	4/12/2022	Est. Delivery Date	5/30/2022
Prevailing Wage	No	Est. Completion Date	5/30/2022

Project Location

Chandler Heights East of Alma
Chandler, AZ

Project Summary

400 ft. 12" Combined flow with Tie-in line

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:
Delivery, installation, operation, removal, pickup of all quoted materials/equipment.
System designed to convey approximately 1100 GPM

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:
Plans, Job walk, customer meetings, Engineering.

Operating Parameters

Sewer Bypass calculated to convey approximately 1000-1100 GPM Peak
Flow includes discharge from bypass 3b from the south. Estimated 800gpm peak
2 ea DV150I 6" pumps (redundancy) with independent suction hose.
Estimated fluid level to grade 15-17 ft (manhole sealed)
Discharge 400 ft north to manhole with 12" line.
Aerial bypass alignment illustration included with quote.

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. Providing safe, secure access and egress to an adequate staging area throughout the job which could include brush clearing, grading, and removal or replacement of any landscape or hardscape in the temporary right of way for the equipment.
4. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
5. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).
6. Spill response plan
7. Portable toilet facilities near bypass pump station.
8. Odor Control Method/Mean.

System:



1. RFR will provide dedicated equipment with operator and fuel to perform all needed unloading, testing, operations, maintenance, relocating, cleaning, and reloading of provided equipment/system.
2. RFR will provide 24/7 pump operation and troubleshooting.
3. Customer will provide fueling.
4. Customer will provide preventative maintenance as recommended by manufacturer or per the Rental Agreement. <https://rainforrentcorp.box.com/v/pumpmaintenance>
5. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be provided at an additional charge.
6. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.

Customer is responsible for:

1. Any work in confined spaces.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Customer shall provide water for equipment flushing prior to end of operation and rental release

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule pickup when equipment/system is cleaned and ready to be released.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires an fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 1 day

Operation: 28-days

Removal/Demobilization: 1 day

System Rental Duration: 28-days

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the installation.

Additional billing as of rental release date or end of rental cycle.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017236

Achen BP 3a

1 ea 28-day equipment rental = \$5,961.42.
1 ea 28-day 24/7 pump operation= \$42,824.00

Details in Statement of Work



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017236

PROJECT COSTS		
Estimated Rental Total		\$5,961.42
Estimated Environmental Recovery Fees		\$193.76
Total Estimated Recurring Charges		\$6,155.18
SERVICES		
Estimated Installation		\$1,153.52
Estimated Removal		\$878.64
Estimated Services		\$42,824.00
GRAND TOTAL		\$51,011.34

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

Engine driven equipment will be delivered with at least 50% fuel. A Fuel Convenience Charge will be implemented on a per gallon basis up to the delivered fuel level. Customer acknowledges that the Fuel Convenience Charge is not a retail sale of fuel. Customer may avoid the Fuel Convenience Charge if the Customer returns the Equipment at delivered level. The fuel convenience fee will be charged per gallon. No refunds will be given for a higher level of fuel upon return.

Customer Name

Customer Signature

Date

Proposal Acknowledgement

By signing this proposal, customer represents that he/she has read and agreed to both the Statement of Work and Quote Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if accepted and initialed. If customer requires a Purchase Order number to process and submit payment, it must be supplied to Rain for Rent at the time of acceptance of this proposal.

PO Number:

Rental Protection Plan

I have received and reviewed the Rental Protection Plan Agreement incorporated as the last page of this estimate. By initialing this paragraph, I understand that I am agreeing to enter into and be bound by the terms of the Rental Protection Plan Program Agreement and that I am authorized to enter into this Agreement on behalf of Customer. FOR ALL RENTALS OF EQUIPMENT, EXCEPT THOSE SPECIFICALLY EXCLUDED, YOU MAY EITHER SHOW PROOF OF PROPERTY INSURANCE IN ACCORDANCE WITH INSURANCE REQUIREMENTS AND RENTAL AGREEMENT OR PURCHASE THE RENTAL PROTECTION. THE PURCHASE OF THE RENTAL PROTECTION PLAN FOR RENTALS OF EQUIPMENT IS NOT MANDATORY AND MAY BE DECLINED IF YOU HAVE PROOF OF ALL RISK PROPERTY INSURANCE AS REQUIRED BY CONTRACT.

RPP	\$771.60	
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Created Date: 4/6/2022



Quote Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between these terms and conditions of this Quotation Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail. Availability of products and services is subject to change without notice. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice. A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <https://www.eia.gov/petroleum/gasdiesel>. An Environmental Recovery Fee shall apply to all rental charges invoiced for the duration of the rental pursuant to this quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses. California Air Quality Fee will be added to the cost of diesel pumps used in California only. This is a State mandated fee. Customer is prohibited from deducting retention from Rain for Rent invoices and charging Rain for Rent liquidated damages. Customer is responsible for flushing and cleaning tanks, roll off boxes, pipelines, pumps, filters and other Rain for Rent equipment prior to return unless specifically agreed to by both parties in writing. The Terms and Conditions of the Rain For Rent Rental and Hazardous Material and/or Non-Hazardous Waste Agreement, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain for Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain for Rent unless made in writing and signed by a Rain for Rent Corporate Officer or Rain for Rent authorized representative. The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. All returned equipment is subject to inspection by Rain for Rent personnel. Damages and accrued rent will be invoiced to Customer while equipment is out of service for repairs. The Customer is responsible for damage caused by reactive, corrosive or abrasive material; including, but not limited to sand, sodium hydroxide, chlorine, and acids. Customer must notify Rain for Rent immediately of any spill so that any necessary repairs to the system can be made and to minimize service interruption. The Customer assumes all risks of loss due to operation and use of the equipment. Customer will provide "all risk" property insurance for rented equipment. Customer shall pay Rain for Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, waterlines, drain pipes, underground electrical conduits or other above ground or underground obstructions. All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Sold equipment is not to be rented. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted. All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warranties the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective. This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain for Rent's prices. De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence. This Quotation is valid for 30 days and is subject to credit approval. Rain for Rent will take every effort to protect our customers and employees. Due to the current pandemic, all quoted equipment and services are subject to delay, change, or unilateral cancellation by Rain for Rent. Please be assured every effort will be made to execute the quote as written. The customer is responsible to inform Rain for Rent of any jobsite hazards, precautions, or entry requirements relating to the Corona Virus prior to Rain for Rent personnel going onsite to perform work or deliver equipment. This includes informing Rain for Rent if anyone at the jobsite has tested positive and provide a list of actions taken to protect Rain for Rent personnel.

Rental Protection Plan Program Agreement

If you elect to maintain All Risk Property Insurance coverage, and the certificate of insurance You provide to Rain for Rent to evidence Your insurance coverage expires or is cancelled for any reason, You agree Rain for Rent may charge RPP for Your rentals until such time as You provide an acceptable and valid certificate of insurance to Rain for Rent. This Rental Protection Plan Program Agreement (this "RPP Agreement") is entered into between the undersigned Rentor and Rentee in relation to the Master Rental and Sales Agreement (MRSA) between Rentor and Rentee. If Rentee has checked or initialed, as applicable, the Rental Protection Plan Program (the "RPP Program") box on the quote, then Rentee has opted-in to the RPP Program and this RPP Agreement shall supplement the MRSA whether or not executed by Rentee. Rentee understands and agrees that the RPP Program is not insurance and that the RPP Program provides only limited coverage, as described below. 1. Cost; Deductible; Maximum Coverage; Rentee shall pay a fee equal to 14 percent (14%) of the rental charge for each covered item, which fee shall be listed on each invoice during which period Rentee has opted to participate in the RPP Program. In the event of a Covered Occurrence, as defined below, Rentee shall further be responsible for the lesser of \$500 or 10 percent (10%) of the total loss, as a deductible. The maximum coverage available under the RPP Program is \$150,000 per Covered Occurrence, whether or not there is more than one piece of equipment involved in the occurrence. 2. Coverage; The RPP Program provides coverage only for losses involving Covered Equipment, as defined below, in the following instances: fire that was not caused by Rentee's gross negligence or willful misconduct; theft for which a police report was filed, and that occurred despite Rentee's reasonable precautions to protect and secure the covered equipment; and vandalism for which a police report was filed (individually, "Covered Occurrence," and collectively, "Covered Occurrence"). The RPP Program provides coverage only for the following types of equipment: pumps, electric submersible pumps, tanks, generators, light towers, filtration, boxes, heaters, spillguards, safety products, sprinklers, hoses, pipe, valves and fittings ("Covered Equipment"). Coverage does not extend to any equipment not owned by Rentor such as re-rented equipment. 3. Exclusions; The RPP program does not cover any equipment or event of loss that is not specifically described in Section 2. Without limiting the foregoing, the RPP Program does not provide coverage for the following: misuse of equipment; willful abuse of equipment; failure to maintain equipment; failure to secure items from theft (including but not limited to failing to store items in a fenced, locked area or failing to maintain personnel on site); damage or theft while in transit to or from a jobsite; corrosion from any source; any damage caused by named storm events; any instance that occurs while the account is not in good standing, such as a default as defined in the MRSA or upon written notice of non-payment; and any occurrence not reported to Rentor within 24 hours after the occurrence. The RPP program does not provide coverage for: electronic equipment (controls, instrumentation, and wiring), flow meters, water meters, wheel wash systems & accessories, Freezesentry items, or tires. 4. Claims; All claims must be submitted within 24 hours of the Covered Occurrence. Rentor's mechanic will inspect the equipment following any claim. The mechanic's findings as to the cause of the damage and cost of repair will be final. In the event of a theft or vandalism, Rentee must also provide supporting evidence that the site was secured at the time of loss.



Rain For Rent
26001 S Arizona Ave
Chandler, AZ, 85248
480-895-9225
rainforrent.com
JWILSON@rainforrent.com

Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017237 for (5/9) BP 3b Tie-in Alma School to Chandler Hgts. We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017237	Project Name	(5/9) BP 3b Tie-in Alma School to Chandler Hgts
Date Prepared	4/12/2022	Est. Delivery Date	5/30/2022
Prevailing Wage	No	Est. Completion Date	5/30/2022

Project Summary
675 ft.

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:

Delivery, installation, system operation, removal, pickup of all quoted materials/equipment

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:

Plans, Job Walk, Customer meeting

Operating Parameters

Sewage flow estimated at 800GPM peak

2 ea DV100C pumps (redundancy) with independent suction hoses.

15 ft fluid level to grade

Discharge 675 ft to north to suction manhole of adjacent simultaneous bypass.

6" HPDE discharge pipe mechanically coupled.

Aerial bypass illustration included with quote.

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. Providing safe, secure access and egress to an adequate staging area throughout the job which could include brush clearing, grading, and removal or replacement of any landscape or hardscape in the temporary right of way for the equipment.
4. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
5. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).
6. Spill response plan
7. Portable toilet facilities near pump station.
8. Odor control

System:

1. RFR will provide dedicated equipment with operator and fuel to perform all needed unloading, testing, operations, maintenance, relocating, cleaning, and reloading of provided equipment/system.
2. If installation provided by RFR and Customer is operating system, this Transfer of Operation form will need to be reviewed and signed by both parties upon completion of setup. (sample form only): <https://rainforrentcorp.box.com/v/systemtransferoperation>
3. Customer will provide fueling.
4. RFR will provide preventative maintenance as recommended by manufacturer or per the Rental Agreement. <https://rainforrentcorp.box.com/v/pumpmaintenance>



5. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be provided at an additional charge.
6. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.

Customer is responsible for:

1. Any work in confined spaces.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Customer is required to periodically start diesel back-up pumps and ensure batteries are fully charged, ready for operation.
7. Customer to identify high points for air vents.
8. Customer is responsible for any residual fluids in system once project is concluded to remove and properly dispose of.

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule pickup when equipment/system is cleaned and ready to be released.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires an fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 1 day

Operation: 28-days

Removal/Demobilization: 1 day

System Rental Duration: 28-days

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the installation.

Additional billing as of rental release date or end of rental cycle.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017237

Achen Gardner Sewer Bypass 4b Alma School south of Chandler Heights to landscape tie-in.

1 ea 28-day rental cycle = \$4,566.83

1 ea 28-day 24/7 pump operation = \$42,824.00

Details in Statement of Work



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017237

PROJECT COSTS		
Estimated Rental Total		\$4,566.83
Estimated Environmental Recovery Fees		\$148.44
Total Estimated Recurring Charges		\$4,715.27
SERVICES		
Estimated Installation		\$1,811.28
Estimated Removal		\$1,261.52
Estimated Services		\$42,824.00
GRAND TOTAL		\$50,612.07

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

Engine driven equipment will be delivered with at least 50% fuel. A Fuel Convenience Charge will be implemented on a per gallon basis up to the delivered fuel level. Customer acknowledges that the Fuel Convenience Charge is not a retail sale of fuel. Customer may avoid the Fuel Convenience Charge if the Customer returns the Equipment at delivered level. The fuel convenience fee will be charged per gallon. No refunds will be given for a higher level of fuel upon return.

Customer Name

Customer Signature

Date

Proposal Acknowledgement

By signing this proposal, customer represents that he/she has read and agreed to both the Statement of Work and Quote Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if accepted and initialed. If customer requires a Purchase Order number to process and submit payment, it must be supplied to Rain for Rent at the time of acceptance of this proposal.

PO Number:

Rental Protection Plan

I have received and reviewed the Rental Protection Plan Agreement incorporated as the last page of this estimate. By initialing this paragraph, I understand that I am agreeing to enter into and be bound by the terms of the Rental Protection Plan Program Agreement and that I am authorized to enter into this Agreement on behalf of Customer. FOR ALL RENTALS OF EQUIPMENT, EXCEPT THOSE SPECIFICALLY EXCLUDED, YOU MAY EITHER SHOW PROOF OF PROPERTY INSURANCE IN ACCORDANCE WITH INSURANCE REQUIREMENTS AND RENTAL AGREEMENT OR PURCHASE THE RENTAL PROTECTION. THE PURCHASE OF THE RENTAL PROTECTION PLAN FOR RENTALS OF EQUIPMENT IS NOT MANDATORY AND MAY BE DECLINED IF YOU HAVE PROOF OF ALL RISK PROPERTY INSURANCE AS REQUIRED BY CONTRACT.

RPP	\$639.36	
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Created Date: 4/6/2022



Quote Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between these terms and conditions of this Quotation Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail. Availability of products and services is subject to change without notice. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice. A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <https://www.eia.gov/petroleum/gasdiesel>. An Environmental Recovery Fee shall apply to all rental charges invoiced for the duration of the rental pursuant to this quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses. 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Customer shall pay Rain for Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, waterlines, drain pipes, underground electrical conduits or other above ground or underground obstructions. All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Sold equipment is not to be rented. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted. All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warranties the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective. This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain for Rent's prices. De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence. This Quotation is valid for 30 days and is subject to credit approval. Rain for Rent will take every effort to protect our customers and employees. Due to the current pandemic, all quoted equipment and services are subject to delay, change, or unilateral cancellation by Rain for Rent. Please be assured every effort will be made to execute the quote as written. 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Rental Protection Plan Program Agreement

If you elect to maintain All Risk Property Insurance coverage, and the certificate of insurance You provide to Rain for Rent to evidence Your insurance coverage expires or is cancelled for any reason, You agree Rain for Rent may charge RPP for Your rentals until such time as You provide an acceptable and valid certificate of insurance to Rain for Rent. This Rental Protection Plan Program Agreement (this "RPP Agreement") is entered into between the undersigned Rentor and Rentee in relation to the Master Rental and Sales Agreement (MRSA) between Rentor and Rentee. If Rentee has checked or initialed, as applicable, the Rental Protection Plan Program (the "RPP Program") box on the quote, then Rentee has opted-in to the RPP Program and this RPP Agreement shall supplement the MRSA whether or not executed by Rentee. Rentee understands and agrees that the RPP Program is not insurance and that the RPP Program provides only limited coverage, as described below. 1. Cost; Deductible; Maximum Coverage; Rentee shall pay a fee equal to 14 percent (14%) of the rental charge for each covered item, which fee shall be listed on each invoice during which period Rentee has opted to participate in the RPP Program. In the event of a Covered Occurrence, as defined below, Rentee shall further be responsible for the lesser of \$500 or 10 percent (10%) of the total loss, as a deductible. The maximum coverage available under the RPP Program is \$150,000 per Covered Occurrence, whether or not there is more than one piece of equipment involved in the occurrence. 2. Coverage; The RPP Program provides coverage only for losses involving Covered Equipment, as defined below, in the following instances: fire that was not caused by Rentee's gross negligence or willful misconduct; theft for which a police report was filed, and that occurred despite Rentee's reasonable precautions to protect and secure the covered equipment; and vandalism for which a police report was filed (individually, "Covered Occurrence," and collectively, "Covered Occurrence"). The RPP Program provides coverage only for the following types of equipment: pumps, electric submersible pumps, tanks, generators, light towers, filtration, boxes, heaters, spillguards, safety products, sprinklers, hoses, pipe, valves and fittings ("Covered Equipment"). Coverage does not extend to any equipment not owned by Rentor such as re-rented equipment. 3. Exclusions; The RPP program does not cover any equipment or event of loss that is not specifically described in Section 2. Without limiting the foregoing, the RPP Program does not provide coverage for the following: misuse of equipment; willful abuse of equipment; failure to maintain equipment; failure to secure items from theft (including but not limited to failing to store items in a fenced, locked area or failing to maintain personnel on site); damage or theft while in transit to or from a jobsite; corrosion from any source; any damage caused by named storm events; any instance that occurs while the account is not in good standing, such as a default as defined in the MRSA or upon written notice of non-payment; and any occurrence not reported to Rentor within 24 hours after the occurrence. The RPP program does not provide coverage for: electronic equipment (controls, instrumentation, and wiring), flow meters, water meters, wheel wash systems & accessories, Freezesentry items, or tires. 4. Claims; All claims must be submitted within 24 hours of the Covered Occurrence. Rentor's mechanic will inspect the equipment following any claim. The mechanic's findings as to the cause of the damage and cost of repair will be final. In the event of a theft or vandalism, Rentee must also provide supporting evidence that the site was secured at the time of loss.



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Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017238 for (6/9) BP 4a Arizona Ave Pump. We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017238	Project Name	(6/9) BP 4a Arizona Ave Pump
Date Prepared	4/12/2022	Est. Delivery Date	5/30/2022
Prevailing Wage	No	Est. Completion Date	5/30/2022

Project Location
Arizona Ave S of Chandler Hgts - Pump Truck on call
Project Summary
Pump manhole as needed on-call

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:
Scheduling 3rd party vendor to provide MH suction/disposal as needed.

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:
Plans, job walk, customer meeting wherein Customer preference for Vac-Truck service was received.

Operating Parameters

3rd Party Vac-Truck service to empty and dispose of sewage from MH on Arizona Ave.
Services ordered by Pump Operator as needed.
Pricing is per pumping truck visit.

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. **Providing safe, secure access and egress to the serviced Manhole.**
4. **Customer responsible for Traffic Control permit and barricades that will permit safe operation by 3rd Party equipment to empty MH.**
5. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
6. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).

System:

1. Customer will provide dedicated contact person to notify when services are required to access the suction manhole..
2. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be provided at an additional charge.
3. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.



Customer is responsible for:

1. Additional cost associated with 3rd party vendor work in confined spaces, if required.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Customer is responsible for any residual fluids in system once project is concluded to remove and properly dispose of.

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule End of Operations.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires a fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 2-3 day advance notice required

Operation: 5 hour minimum - Flat rate billed.

Service quantities determined by on-site pump operators.

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the services.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017238

SERVICE ITEMS	
Description	Price
SERVICE 3rd Party MH pumping service as needed per visit.	\$2,630.00
Service Total	\$2,630.00



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017238

Liquid Ingenuity®

SERVICES		
Estimated Services		\$2,630.00
GRAND TOTAL		\$2,630.00

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

Engine driven equipment will be delivered with at least 50% fuel. A Fuel Convenience Charge will be implemented on a per gallon basis up to the delivered fuel level. Customer acknowledges that the Fuel Convenience Charge is not a retail sale of fuel. Customer may avoid the Fuel Convenience Charge if the Customer returns the Equipment at delivered level. The fuel convenience fee will be charged per gallon. No refunds will be given for a higher level of fuel upon return.

Customer Name

Customer Signature

Date

Proposal Acknowledgement

By signing this proposal, customer represents that he/she has read and agreed to both the Statement of Work and Quote Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if accepted and initialed. If customer requires a Purchase Order number to process and submit payment, it must be supplied to Rain for Rent at the time of acceptance of this proposal.

PO Number:

Created Date: 4/6/2022



Quote Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between these terms and conditions of this Quotation Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail. Availability of products and services is subject to change without notice. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice. A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <https://www.eia.gov/petroleum/gasdiesel>. An Environmental Recovery Fee shall apply to all rental charges invoiced for the duration of the rental pursuant to this quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses. California Air Quality Fee will be added to the cost of diesel pumps used in California only. This is a State mandated fee. Customer is prohibited from deducting retention from Rain for Rent invoices and charging Rain for Rent liquidated damages. Customer is responsible for flushing and cleaning tanks, roll off boxes, pipelines, pumps, filters and other Rain for Rent equipment prior to return unless specifically agreed to by both parties in writing. The Terms and Conditions of the Rain For Rent Rental and Hazardous Material and/or Non-Hazardous Waste Agreement, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain for Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain for Rent unless made in writing and signed by a Rain for Rent Corporate Officer or Rain for Rent authorized representative. The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. All returned equipment is subject to inspection by Rain for Rent personnel. Damages and accrued rent will be invoiced to Customer while equipment is out of service for repairs. The Customer is responsible for damage caused by reactive, corrosive or abrasive material; including, but not limited to sand, sodium hydroxide, chlorine, and acids. Customer must notify Rain for Rent immediately of any spill so that any necessary repairs to the system can be made and to minimize service interruption. The Customer assumes all risks of loss due to operation and use of the equipment. Customer will provide "all risk" property insurance for rented equipment. Customer shall pay Rain for Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, waterlines, drain pipes, underground electrical conduits or other above ground or underground obstructions. All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Sold equipment is not to be rented. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted. All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warrants the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective. This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain for Rent's prices. De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence. This Quotation is valid for 30 days and is subject to credit approval. Rain for Rent will take every effort to protect our customers and employees. Due to the current pandemic, all quoted equipment and services are subject to delay, change, or unilateral cancellation by Rain for Rent. Please be assured every effort will be made to execute the quote as written. The customer is responsible to inform Rain for Rent of any jobsite hazards, precautions, or entry requirements relating to the Corona Virus prior to Rain for Rent personnel going onsite to perform work or deliver equipment. This includes informing Rain for Rent if anyone at the jobsite has tested positive and provide a list of actions taken to protect Rain for Rent personnel.



Rain For Rent
26001 S Arizona Ave
Chandler, AZ, 85248
480-895-9225
rainforrent.com
JWILSON@rainforrent.com

Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017242 for (7/9) BP 4b 5151 S. Arizona Ave (North Driveway). We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017242	Project Name	(7/9) BP 4b 5151 S. Arizona Ave (North Driveway)
Date Prepared	4/12/2022	Est. Delivery Date	5/30/2022
Prevailing Wage	No	Est. Completion Date	5/30/2022

Project Location
5151 S. Arizona Ave (North
Project Summary
12" lateral to Sacrificial MH at 225

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:
Delivery, installation, operation, removal, pickup of all quoted materials/equipment

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:
Plans, job walk, manhole observation and measurements.

Operating Parameters

System designed to convey approximately 200-300GPM from driveway manhole to temporary manhole approximately 450 ft east of the suction manhole.
2 ea DV100C pumps with independent 6" suction hose.
8 ft. fluid level to grade
Discharge via 6" HDPE mechanically coupled pipe.
Discharge into suction manhole of BP 4c
Aerial bypass illustration included with Quote

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. Providing safe, secure access and egress to an adequate staging area throughout the job which could include brush clearing, grading, and removal or replacement of any landscape or hardscape in the temporary right of way for the equipment.
4. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
5. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).
6. Spill response plan
7. Portable toilet facilities near pump station.
8. Odor Control Method/Mean.

System:



1. RFR will provide dedicated equipment with operator and fuel to perform all needed unloading, testing, operations, maintenance, relocating, cleaning, and reloading of provided equipment/system.
2. RFR will provide 24/7 pump operation and troubleshooting.
3. Customer will provide fueling.
4. Customer will provide preventative maintenance as recommended by manufacturer or per the Rental Agreement. <https://rainforrentcorp.box.com/v/pumpmaintenance>
5. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be provided at an additional charge.
6. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.

Customer is responsible for:

1. Any work in confined spaces.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Customer shall provide water for equipment flushing prior to end of operation and rental release

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule pickup when equipment/system is cleaned and ready to be released.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires an fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 1 day

Operation: 28-days

Removal/Demobilization: 1 day

System Rental Duration: 28-days

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the installation.

Additional billing as of rental release date or end of rental cycle.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017242

Achen Bypass 4c to convey 200-300 GPM from suction manhole to temporary manhole approximately 450 ft away.

1 ea 28-day equipment rental = \$4,417.65

1 ea 28-day 24/7 pump operation = \$42,824.00

Details in Statement of Work



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017242

PROJECT COSTS		
Estimated Rental Total		\$4,417.65
Estimated Environmental Recovery Fees		\$143.59
Total Estimated Recurring Charges		\$4,561.24
SERVICES		
Estimated Installation		\$1,153.52
Estimated Removal		\$878.64
Estimated Services		\$42,824.00
GRAND TOTAL		\$49,417.40

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

Engine driven equipment will be delivered with at least 50% fuel. A Fuel Convenience Charge will be implemented on a per gallon basis up to the delivered fuel level. Customer acknowledges that the Fuel Convenience Charge is not a retail sale of fuel. Customer may avoid the Fuel Convenience Charge if the Customer returns the Equipment at delivered level. The fuel convenience fee will be charged per gallon. No refunds will be given for a higher level of fuel upon return.

Customer Name

Customer Signature

Date

Proposal Acknowledgement

By signing this proposal, customer represents that he/she has read and agreed to both the Statement of Work and Quote Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if accepted and initialed. If customer requires a Purchase Order number to process and submit payment, it must be supplied to Rain for Rent at the time of acceptance of this proposal.

PO Number:

Rental Protection Plan

I have received and reviewed the Rental Protection Plan Agreement incorporated as the last page of this estimate. By initialing this paragraph, I understand that I am agreeing to enter into and be bound by the terms of the Rental Protection Plan Program Agreement and that I am authorized to enter into this Agreement on behalf of Customer. FOR ALL RENTALS OF EQUIPMENT, EXCEPT THOSE SPECIFICALLY EXCLUDED, YOU MAY EITHER SHOW PROOF OF PROPERTY INSURANCE IN ACCORDANCE WITH INSURANCE REQUIREMENTS AND RENTAL AGREEMENT OR PURCHASE THE RENTAL PROTECTION. THE PURCHASE OF THE RENTAL PROTECTION PLAN FOR RENTALS OF EQUIPMENT IS NOT MANDATORY AND MAY BE DECLINED IF YOU HAVE PROOF OF ALL RISK PROPERTY INSURANCE AS REQUIRED BY CONTRACT.

RPP	\$618.48	
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Created Date: 4/6/2022



Quote Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between these terms and conditions of this Quotation Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail. Availability of products and services is subject to change without notice. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice. A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <https://www.eia.gov/petroleum/gasdiesel>. An Environmental Recovery Fee shall apply to all rental charges invoiced for the duration of the rental pursuant to this quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses. California Air Quality Fee will be added to the cost of diesel pumps used in California only. This is a State mandated fee. Customer is prohibited from deducting retention from Rain for Rent invoices and charging Rain for Rent liquidated damages. Customer is responsible for flushing and cleaning tanks, roll off boxes, pipelines, pumps, filters and other Rain for Rent equipment prior to return unless specifically agreed to by both parties in writing. The Terms and Conditions of the Rain For Rent Rental and Hazardous Material and/or Non-Hazardous Waste Agreement, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain for Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain for Rent unless made in writing and signed by a Rain for Rent Corporate Officer or Rain for Rent authorized representative. The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. All returned equipment is subject to inspection by Rain for Rent personnel. Damages and accrued rent will be invoiced to Customer while equipment is out of service for repairs. The Customer is responsible for damage caused by reactive, corrosive or abrasive material; including, but not limited to sand, sodium hydroxide, chlorine, and acids. Customer must notify Rain for Rent immediately of any spill so that any necessary repairs to the system can be made and to minimize service interruption. The Customer assumes all risks of loss due to operation and use of the equipment. Customer will provide "all risk" property insurance for rented equipment. Customer shall pay Rain for Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, waterlines, drain pipes, underground electrical conduits or other above ground or underground obstructions. All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Sold equipment is not to be rented. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted. All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warranties the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective. This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain for Rent's prices. De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence. This Quotation is valid for 30 days and is subject to credit approval. Rain for Rent will take every effort to protect our customers and employees. Due to the current pandemic, all quoted equipment and services are subject to delay, change, or unilateral cancellation by Rain for Rent. Please be assured every effort will be made to execute the quote as written. The customer is responsible to inform Rain for Rent of any jobsite hazards, precautions, or entry requirements relating to the Corona Virus prior to Rain for Rent personnel going onsite to perform work or deliver equipment. This includes informing Rain for Rent if anyone at the jobsite has tested positive and provide a list of actions taken to protect Rain for Rent personnel.

Rental Protection Plan Program Agreement

If you elect to maintain All Risk Property Insurance coverage, and the certificate of insurance You provide to Rain for Rent to evidence Your insurance coverage expires or is cancelled for any reason, You agree Rain for Rent may charge RPP for Your rentals until such time as You provide an acceptable and valid certificate of insurance to Rain for Rent. This Rental Protection Plan Program Agreement (this "RPP Agreement") is entered into between the undersigned Rentor and Rentee in relation to the Master Rental and Sales Agreement (MRSA) between Rentor and Rentee. If Rentee has checked or initialed, as applicable, the Rental Protection Plan Program (the "RPP Program") box on the quote, then Rentee has opted-in to the RPP Program and this RPP Agreement shall supplement the MRSA whether or not executed by Rentee. Rentee understands and agrees that the RPP Program is not insurance and that the RPP Program provides only limited coverage, as described below. 1. Cost; Deductible; Maximum Coverage; Rentee shall pay a fee equal to 14 percent (14%) of the rental charge for each covered item, which fee shall be listed on each invoice during which period Rentee has opted to participate in the RPP Program. In the event of a Covered Occurrence, as defined below, Rentee shall further be responsible for the lesser of \$500 or 10 percent (10%) of the total loss, as a deductible. The maximum coverage available under the RPP Program is \$150,000 per Covered Occurrence, whether or not there is more than one piece of equipment involved in the occurrence. 2. Coverage; The RPP Program provides coverage only for losses involving Covered Equipment, as defined below, in the following instances: fire that was not caused by Rentee's gross negligence or willful misconduct; theft for which a police report was filed, and that occurred despite Rentee's reasonable precautions to protect and secure the covered equipment; and vandalism for which a police report was filed (individually, "Covered Occurrence," and collectively, "Covered Occurrence"). The RPP Program provides coverage only for the following types of equipment: pumps, electric submersible pumps, tanks, generators, light towers, filtration, boxes, heaters, spillguards, safety products, sprinklers, hoses, pipe, valves and fittings ("Covered Equipment"). Coverage does not extend to any equipment not owned by Rentor such as re-rented equipment. 3. Exclusions; The RPP program does not cover any equipment or event of loss that is not specifically described in Section 2. Without limiting the foregoing, the RPP Program does not provide coverage for the following: misuse of equipment; willful abuse of equipment; failure to maintain equipment; failure to secure items from theft (including but not limited to failing to store items in a fenced, locked area or failing to maintain personnel on site); damage or theft while in transit to or from a jobsite; corrosion from any source; any damage caused by named storm events; any instance that occurs while the account is not in good standing, such as a default as defined in the MRSA or upon written notice of non-payment; and any occurrence not reported to Rentor within 24 hours after the occurrence. The RPP program does not provide coverage for: electronic equipment (controls, instrumentation, and wiring), flow meters, water meters, wheel wash systems & accessories, Freezesentry items, or tires. 4. Claims; All claims must be submitted within 24 hours of the Covered Occurrence. Rentor's mechanic will inspect the equipment following any claim. The mechanic's findings as to the cause of the damage and cost of repair will be final. In the event of a theft or vandalism, Rentee must also provide supporting evidence that the site was secured at the time of loss.



Rain For Rent
26001 S Arizona Ave
Chandler, AZ, 85248
480-895-9225
rainforrent.com
JWILSON@rainforrent.com

Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017247 for (8/9) BP 4c 225 E Ch Hgt Sac MH . We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017247	Project Name	(8/9) BP 4c 225 E Ch Hgt Sac MH
Date Prepared	4/12/2022	Est. Delivery Date	5/30/2022
Prevailing Wage	No	Est. Completion Date	5/30/2022

Project Summary
225 E. Chandler Heights Sac MH to Mainline Discharge

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:
Delivery, installation, operation, removal, pickup of all quoted materials/equipment

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:
Plans, Job walk, customer meetings and measurements.

Operating Parameters

System designed to convey approximately 500 -800 peak GPM (combined flow) approximately 1650 ft to discharge.
Fluid level to grade 8 ft.
2 ea DV100C pumps (redundancy) with independent suction hoses.
Discharge into single 6" HDPE mechanically coupled pipe.
Aerial bypass illustration included with Quote.

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. Providing safe, secure access and egress to an adequate staging area throughout the job which could include brush clearing, grading, and removal or replacement of any landscape or hardscape in the temporary right of way for the equipment.
4. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
5. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).
6. Spill response plan
7. Portable Toilet Facilities near pump station.
8. Odor Control Method/Mean.

System:

1. RFR will provide dedicated equipment with operator and fuel to perform all needed unloading, testing, operations, maintenance, relocating, cleaning, and reloading of provided equipment/system.
2. RFR will provide 24/7 pump operation and troubleshooting.
3. Customer will provide fueling.
4. Customer will provide preventative maintenance as recommended by manufacturer or per the Rental Agreement. <https://rainforrentcorp.box.com/v/pumpmaintenance>
5. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be provided at an additional charge.
6. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and



accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.

Customer is responsible for:

1. Any work in confined spaces.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Customer shall provide water for equipment flushing prior to end of operation and rental release

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule pickup when equipment/system is cleaned and ready to be released.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires an fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 1-2 days
Operation: 28-days
Removal/Demobilization: 1-2 days
System Rental Duration: 28-days

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the installation.
Additional billing as of rental release date or end of rental cycle.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017247

Achen-Gardner BP 4b

1 ea 28-day equipment rental = \$4,965.41
1 ea 28-day pump operation = \$42,824.00

Details in Statement of Work



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017247

PROJECT COSTS		
Estimated Rental Total		\$4,965.41
Estimated Environmental Recovery Fees		\$161.41
Total Estimated Recurring Charges		\$5,126.82
SERVICES		
Estimated Installation		\$2,086.16
Estimated Removal		\$1,536.40
Estimated Services		\$42,824.00
GRAND TOTAL		\$51,573.38

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

Engine driven equipment will be delivered with at least 50% fuel. A Fuel Convenience Charge will be implemented on a per gallon basis up to the delivered fuel level. Customer acknowledges that the Fuel Convenience Charge is not a retail sale of fuel. Customer may avoid the Fuel Convenience Charge if the Customer returns the Equipment at delivered level. The fuel convenience fee will be charged per gallon. No refunds will be given for a higher level of fuel upon return.

Customer Name

Customer Signature

Date

Proposal Acknowledgement

By signing this proposal, customer represents that he/she has read and agreed to both the Statement of Work and Quote Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if accepted and initialed. If customer requires a Purchase Order number to process and submit payment, it must be supplied to Rain for Rent at the time of acceptance of this proposal.

PO Number:

Rental Protection Plan

I have received and reviewed the Rental Protection Plan Agreement incorporated as the last page of this estimate. By initialing this paragraph, I understand that I am agreeing to enter into and be bound by the terms of the Rental Protection Plan Program Agreement and that I am authorized to enter into this Agreement on behalf of Customer. FOR ALL RENTALS OF EQUIPMENT, EXCEPT THOSE SPECIFICALLY EXCLUDED, YOU MAY EITHER SHOW PROOF OF PROPERTY INSURANCE IN ACCORDANCE WITH INSURANCE REQUIREMENTS AND RENTAL AGREEMENT OR PURCHASE THE RENTAL PROTECTION. THE PURCHASE OF THE RENTAL PROTECTION PLAN FOR RENTALS OF EQUIPMENT IS NOT MANDATORY AND MAY BE DECLINED IF YOU HAVE PROOF OF ALL RISK PROPERTY INSURANCE AS REQUIRED BY CONTRACT.

RPP	\$695.17	
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Created Date: 4/6/2022



Quote Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between these terms and conditions of this Quotation Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail. Availability of products and services is subject to change without notice. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice. A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <https://www.eia.gov/petroleum/gasdiesel>. An Environmental Recovery Fee shall apply to all rental charges invoiced for the duration of the rental pursuant to this quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses. California Air Quality Fee will be added to the cost of diesel pumps used in California only. This is a State mandated fee. Customer is prohibited from deducting retention from Rain for Rent invoices and charging Rain for Rent liquidated damages. Customer is responsible for flushing and cleaning tanks, roll off boxes, pipelines, pumps, filters and other Rain for Rent equipment prior to return unless specifically agreed to by both parties in writing. The Terms and Conditions of the Rain For Rent Rental and Hazardous Material and/or Non-Hazardous Waste Agreement, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain for Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain for Rent unless made in writing and signed by a Rain for Rent Corporate Officer or Rain for Rent authorized representative. The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. All returned equipment is subject to inspection by Rain for Rent personnel. Damages and accrued rent will be invoiced to Customer while equipment is out of service for repairs. The Customer is responsible for damage caused by reactive, corrosive or abrasive material; including, but not limited to sand, sodium hydroxide, chlorine, and acids. Customer must notify Rain for Rent immediately of any spill so that any necessary repairs to the system can be made and to minimize service interruption. The Customer assumes all risks of loss due to operation and use of the equipment. Customer will provide "all risk" property insurance for rented equipment. Customer shall pay Rain for Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, waterlines, drain pipes, underground electrical conduits or other above ground or underground obstructions. All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Sold equipment is not to be rented. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted. All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warrants the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective. This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain for Rent's prices. De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence. This Quotation is valid for 30 days and is subject to credit approval. Rain for Rent will take every effort to protect our customers and employees. Due to the current pandemic, all quoted equipment and services are subject to delay, change, or unilateral cancellation by Rain for Rent. Please be assured every effort will be made to execute the quote as written. The customer is responsible to inform Rain for Rent of any jobsite hazards, precautions, or entry requirements relating to the Corona Virus prior to Rain for Rent personnel going onsite to perform work or deliver equipment. This includes informing Rain for Rent if anyone at the jobsite has tested positive and provide a list of actions taken to protect Rain for Rent personnel.

Rental Protection Plan Program Agreement

If you elect to maintain All Risk Property Insurance coverage, and the certificate of insurance You provide to Rain for Rent to evidence Your insurance coverage expires or is cancelled for any reason, You agree Rain for Rent may charge RPP for Your rentals until such time as You provide an acceptable and valid certificate of insurance to Rain for Rent. This Rental Protection Plan Program Agreement (this "RPP Agreement") is entered into between the undersigned Rentor and Rentee in relation to the Master Rental and Sales Agreement (MRSA) between Rentor and Rentee. If Rentee has checked or initialed, as applicable, the Rental Protection Plan Program (the "RPP Program") box on the quote, then Rentee has opted-in to the RPP Program and this RPP Agreement shall supplement the MRSA whether or not executed by Rentee. Rentee understands and agrees that the RPP Program is not insurance and that the RPP Program provides only limited coverage, as described below. 1. Cost; Deductible; Maximum Coverage; Rentee shall pay a fee equal to 14 percent (14%) of the rental charge for each covered item, which fee shall be listed on each invoice during which period Rentee has opted to participate in the RPP Program. In the event of a Covered Occurrence, as defined below, Rentee shall further be responsible for the lesser of \$500 or 10 percent (10%) of the total loss, as a deductible. The maximum coverage available under the RPP Program is \$150,000 per Covered Occurrence, whether or not there is more than one piece of equipment involved in the occurrence. 2. Coverage; The RPP Program provides coverage only for losses involving Covered Equipment, as defined below, in the following instances: fire that was not caused by Rentee's gross negligence or willful misconduct; theft for which a police report was filed, and that occurred despite Rentee's reasonable precautions to protect and secure the covered equipment; and vandalism for which a police report was filed (individually, "Covered Occurrence," and collectively, "Covered Occurrence"). The RPP Program provides coverage only for the following types of equipment: pumps, electric submersible pumps, tanks, generators, light towers, filtration, boxes, heaters, spillguards, safety products, sprinklers, hoses, pipe, valves and fittings ("Covered Equipment"). Coverage does not extend to any equipment not owned by Rentor such as re-rented equipment. 3. Exclusions; The RPP program does not cover any equipment or event of loss that is not specifically described in Section 2. Without limiting the foregoing, the RPP Program does not provide coverage for the following: misuse of equipment; willful abuse of equipment; failure to maintain equipment; failure to secure items from theft (including but not limited to failing to store items in a fenced, locked area or failing to maintain personnel on site); damage or theft while in transit to or from a jobsite; corrosion from any source; any damage caused by named storm events; any instance that occurs while the account is not in good standing, such as a default as defined in the MRSA or upon written notice of non-payment; and any occurrence not reported to Rentor within 24 hours after the occurrence. The RPP program does not provide coverage for: electronic equipment (controls, instrumentation, and wiring), flow meters, water meters, wheel wash systems & accessories, Freezesentry items, or tires. 4. Claims; All claims must be submitted within 24 hours of the Covered Occurrence. Rentor's mechanic will inspect the equipment following any claim. The mechanic's findings as to the cause of the damage and cost of repair will be final. In the event of a theft or vandalism, Rentee must also provide supporting evidence that the site was secured at the time of loss.



Rain For Rent
26001 S Arizona Ave
Chandler, AZ, 85248
480-895-9225
rainforrent.com
JWILSON@rainforrent.com

Achen-Gardner Construction, LLC
Account: 120490
550 S 79TH ST
CHANDLER, AZ, 85226
Mark McLafferty
480-940-1300
mmclafferty@achen.com

Dear Mark McLafferty,

Thank you for your inquiry. As requested, please find attached our proposal 1092-IND-2017250 for (9/9) BP 4d. We value this opportunity to provide a solution for your liquid handling need and we are committed to partnering with you to ensure your project's safe execution and completion.

To convert this proposal into a confirmed order WITHOUT ANY CHANGES, please click the "Start Signing" button to begin the electronic signature process.

If you would like to CHANGE anything in this proposal or discuss anything further, please call Jon Wilson at 480-895-9225.

Thank you, and I look forward to working with you.

Regards,

Jon Wilson
JWILSON@rainforrent.com
Mobile: 602-725-7839
Branch: 480-895-9225
26001 S Arizona Ave
Chandler, AZ, 85248



Proposal #	1092-IND-2017250	Project Name	(9/9) BP 4d
Date Prepared	4/12/2022	Est. Delivery Date	5/30/2022
Prevailing Wage	No	Est. Completion Date	5/30/2022

Project Summary
Lateral MH in front of Alpha Med to Mainline Tie-in

STATEMENT OF WORK

RFR Responsibilities & Scope of Work

Rain for Rent (RFR) will provide the following:
Delivery, installation, operation, removal, pickup of all quoted materials/equipment.
Primary and Back up pumps to convey sewage to discharge.

Reference Materials

Project is quoted based on applicable/customer provided reference materials noted below:
Plans, Job walk, customer meetings and measurements.

Operating Parameters

Subject to design calculations.
2 ea DV150i 6" pumps (redundancy) with independent suction hoses
17 ft fluid level to grade.
Flow approximately 800-1000 peak GPM
Discharge 850 ft into 6" HDPE mechanically coupled pipe.
Aerial bypass illustration included with Quote.

Customer Responsibilities

It is the customer's responsibility to inform RFR about prevailing wage at time of proposal. If RFR is informed after the quote is issued that certified payroll is required, quote will be subject to additional charges.

Jobsite:

Customer is responsible for:

1. Informing RFR of any jobsite or general requirement(s) to perform work on location.
2. Securing permits, fees, bonding, right of ways, vehicular/pedestrian traffic control, and security.
3. Providing safe, secure access and egress to an adequate staging area throughout the job which could include brush clearing, grading, and removal or replacement of any landscape or hardscape in the temporary right of way for the equipment.
4. Any damage to the environment including trees, vegetation, stream banks, or any other part of the site caused by the installation, removal, construction, pulling or dragging of equipment, or operation of the equipment that would require site restoration or environmental countermeasures.
5. Any excavation, saw cutting, trench plating for the purpose of road crossings, backfilling, restoration, modification, or alteration of any permanent structure or site element including changes to pump pad preparation, suction, or discharge chambers during duration of job (including installation and removal).
6. Spill response plan
7. Portable toilet facilities near pump station.
8. Odor Control Method/Mean.

System:

1. RFR will provide dedicated equipment with operator and fuel to perform all needed unloading, testing, operations, maintenance, relocating, cleaning, and reloading of provided equipment/system.
2. RFR will provide 24/7 pump operation and troubleshooting.
3. Customer will provide fueling.
4. Customer will provide preventative maintenance as recommended by manufacturer or per the Rental Agreement. <https://rainforrentcorp.box.com/v/pumpmaintenance>
5. Customer will supply all needed water for the commissioning, startup, and system testing. Project specific criteria for hydrotesting can be



provided at an additional charge.

6. By accepting this quotation, the customer has acknowledged that the equipment proposed herein is suitable for its intended application and accepts all liabilities associated with its use. Customer is responsible for compliance with appropriate liquid/material quality standards, regulations, and testing protocols to meet all federal, state, local and job location specific requirements. Customer is responsible for all waste materials associated with this equipment/system.

Customer is responsible for:

1. Any work in confined spaces.
2. Protecting system from damage including any freeze protection necessary to safeguard equipment from damage. Should equipment become frozen and damaged, customer is responsible for repair of equipment. RFR can provide necessary freeze protection at an additional charge per executed change order. Equipment stays on rent until it can be returned.
3. Using equipment in a safe and proper manner in accordance with manufacturers' recommendations, regulatory standards, and industry best practices. Improper usage may cause equipment/system failure, damage, possible incidents, injuries, and spills.
4. Customer is responsible for identifying at-risk service laterals to evaluate and mitigate the potential for sewage backups. Customer must communicate the risk of flooding and other potential issues to affected property owners. This may require customer to install additional sewer plugs or backflow preventers.
5. Customer will provide sewer plugs and any associated installation, monitoring, and removal of sewer plugs.
6. Customer shall provide water for equipment flushing prior to end of operation and rental release

Upon Pickup:

Contact the RFR office at 480.895.9225 to schedule pickup when equipment/system is cleaned and ready to be released.

Flushing and cleaning of equipment must be performed to RFR's standards prior to being called off rent. RFR personnel will perform a visual inspection. It is recommended to have a customer representative on-site during inspection. Equipment found not to be in "delivered condition" will not be picked up.

Project Scheduling & Billing

This quote is valid for 30 days. For the quoted items, RFR requires an fully executed document prior to scheduling equipment and crew, subject to availability.

Estimated schedule durations:

Mobilization/Installation: 1 day
Operation: 28-days
Removal/Demobilization: 1 day
System Rental Duration: 28-days

Customer acknowledges that availability of equipment/system and/or media will be confirmed at time of order. Additional freight charges may apply subject to mutually agreed upon change order.

Billing

Delivery and labor for this project will be billed upon completion of the installation.
Additional billing as of rental release date or end of rental cycle.

Safety

Each employee is expected to adhere to the RFR Environmental, Health and Safety programs, which will protect the environment, the health and safety of the customer, employees, and others. RFR asks for your full cooperation to succeed in this expected outcome.



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017250

Achen-Gardner BP 4c tie in.

1 ea 28-day equipment rental = \$6,078.60

1 ea 28-day 24/7 pump operation = \$42,824.00

Details in Statement of Work



Rain For Rent
Sales Rep: Jon Wilson

Achen-Gardner Construction, LLC
Account: 120490
Proposal: 1092-IND-2017250

PROJECT COSTS		
Estimated Rental Total		\$6,078.60
Estimated Environmental Recovery Fees		\$197.57
Total Estimated Recurring Charges		\$6,276.17
SERVICES		
Estimated Installation		\$1,811.28
Estimated Pickup		\$1,261.52
Estimated Services		\$42,824.00
GRAND TOTAL		\$52,172.97

-Estimated costs do not include taxes

-Recurring rental project costs will be on a cycle/week/day basis+ tax

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Customer Signature

Date

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RPP	\$788.01	
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Created Date: 4/6/2022



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The Terms and Conditions of the Rain For Rent Rental and Hazardous Material and/or Non-Hazardous Waste Agreement, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain for Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain for Rent unless made in writing and signed by a Rain for Rent Corporate Officer or Rain for Rent authorized representative. The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. 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CASING STEEL CASING

Vendor Code								TRIINITY
Vendor Name								Trinity Product
Vendor Phone								6368879683
Bid	Activity	Resource	Desc	Quan	Unit	Plug Price	Unit Price	
		2CAS18	18" STEEL CASING	120.00	LF	0.0000	128.5500	
		2CAS24	24" STEEL CASING	760.00	LF	0.0000	157.8300	
		2CAS30	30" STEEL CASING	80.00	LF	0.0000	191.1100	
Quoted Amount								150,666
Plugged Amount								0
Bond								0
Mobilization								0
% Adjustment								0
\$ Adjustment								0
Total Adjustment								0
Totals						0	150,666	
Diff From Plug								150,666
Total Minority								0

A 'P' beside a price indicates a plug price.
Green background indicates that the vendor is selected.



Apr 12, 2022

Quote #: TPIQ57061

Project: Chandler Heights (Pa...

QUOTE

Sales Rep:

Adam Manz

amanz@trinityproducts.com

636-887-9683

REMIT TO:

Trinity Products LLC

PO Box 84103

Chicago, IL, 60689-4003

FOB:

Approx. Ship

Date:

Terms of Sale:

Destination

TBD

NET 30

QUOTE TO:

Achen-Gardner Construction

Mark McLafferty
550 South 79th St.
Chandler, Arizona 85226
Tel: 480-940-1300

SHIP TO:

Job Site
Chandler, Arizona 85224

DESCRIPTION	QTY	UOM	UNIT PRICE	TOTAL
18" x .406" Nominal Wall, New Straight Seam Steel Pipe, A252 Gr. 3, Domestic w/ MTR's, 1pc @ 40'	40 120	FT	\$79.42	\$9,530.40 \$3,176.80
24" x .375" Nominal, New Trinity Lo-profile Spiral Weld Steel Pipe, A252 Gr. 3, Domestic w/ MTR's, 22pcs @ 40'	880 760	FT	\$106.45	\$80,902.00 \$93,676.00
30" x .375" Nominal, New Trinity Lo-profile Spiral Weld Steel Pipe, A252 Gr. 3, Domestic w/ MTR's, 2pc @ 40'	80	FT	\$133.48	\$10,678.40
Freight to Chandler, Arizona - Steel Pipe *Freight is an estimate only. Billed freight will be determined at time of shipment.	3	T/L	\$6,800.00	\$20,400.00
6" x 18", Stainless Steel Spacer with EPDM Liner, Center Restrained	4 16	EA	\$165.00	\$2,640.00 \$660.00
6" x 18", EPDM Wrap-Around End Seal	2 6	EA	\$105.00	\$630.00 \$210.00
8" x 24", Stainless Steel Spacer with EPDM Liner, Center Restrained	76	EA	\$210.00	\$15,960.00
8" x 24", EPDM Wrap-Around End Seal	38	EA	\$170.00	\$6,460.00
16" x 30", Stainless Steel Spacer with EPDM Liner, Center Restrained	8	EA	\$245.00	\$1,960.00
16" x 30", EPDM Wrap-Around End Seal	4	EA	\$225.00	\$900.00
Freight to Chandler, Arizona - Spacers/End Seals *Freight is an estimate only. Billed freight will be determined at time of shipment.	1	LOT	\$600.00	\$600.00

Accepted by:

Mark McLafferty

Date

Grand Total* ~~\$154,681.20~~**\$150,660.80**

*Total price excludes sales tax. If tax is required, it will be added at the appropriate rate upon invoicing.

Comments:

All materials are subject to prior sale, mill rolling schedule and price fluctuations upon receipt of order.

Thank you,
Adam Manz

***Freight quoted is an estimate based on current market rates. Freight will be billed/invoiced based on market rates at time of shipment. Trinity Products assumes no liability for changes in freight market rates.**

For more information please visit our website @ www.trinityproducts.com

Any claim(s) for damaged or incorrect must be made in writing within five (5) days of receipt of material to be considered valid. Due to the volatility of the steel and fuel markets, all quotations will be subject to change without notice. Fuel surcharges at time of order and/or shipment. These surcharges will be monitored monthly and adjusted accordingly. Any recommendations are for educational purposes only, not for commercial work. All materials are subject to prior sale. Trinity Products, LLC is not responsible for delivery problems, delays or costs incurred due to shipping or trucking problems. IMPORTANT: Regarding All Coated Materials: Damage to coating from shipping and handling should be expected. Customer is responsible for all coating repairs. Also included in this agreement is the final pages, titled "Terms and Conditions of Sale of Goods" which is a part of this order.

TERMS & CONDITIONS OF THE SALE OF GOODS

1. Buyer shall indemnify, defend and hold Seller harmless from and against any and all claims whatsoever, demands, liabilities, causes of action, losses, damages, costs and expenses, including, without limitation, attorneys' fees and claims for breach of contract, bodily injury (including death) or property damage, arising out of or relating to Seller furnishing goods hereunder in accordance with shop drawings that were approved, approved as noted, or with respect to which no exceptions were taken, or in accordance with plans, specifications or other design documents furnished by Buyer to Seller. A shop drawing shall be deemed approved for all purposes and deemed consistent with plans, specifications and other design documents unless Buyer notifies Seller in writing of a specific objection having merit within 14 days of receipt of the shop drawing

2. All materials and their attachments remain the property of Trinity Products, Inc. until all payments have been made in full.

3. Trinity Products LLC's sales price is exclusive of any applicable sales tax, use tax, and any other transaction taxes that may be imposed by any governmental entity or agent thereof whether state, county, municipal, city or otherwise ("Governmental Entity"). The Customer shall be exclusively responsible for the complete payment of any sales, use or other transaction taxes and shall pay all invoiced sales, use or other transaction taxes upon its receipt of materials from Trinity Products, LLC unless it provides Trinity Products, LLC with a valid sales tax exemption certificate. In the event that any Governmental Entity at any time deems the Customer's sales tax exemption certificate to be invalid or inapplicable or otherwise determines that the transaction is subject to a sales tax, use tax, or other transaction taxes the Customer shall immediately upon demand provide Trinity Products, LLC and/or any of its successors and/or affiliates with monetary funds to cover all applicable sales tax, use tax, and any other transaction taxes that may have been assessed, including any applicable interest and penalties as well as any costs whatsoever incurred by Trinity Products, LLC, including, but not limited to, any attorney's fees and accountant's fees.

4. Seller accepts Buyer's order only upon the terms and conditions on the face side hereof and as set forth herein (collectively the "TERMS"), The TERMS form the entire agreement between the parties. All other terms, proposals, negotiations, representations, recommendations, statements or agreements, whether made or issued contemporaneously or previously, are excluded from and are not a part of this agreement, and have no binding or enforceable effect. This agreement shall be binding on the parties and their respective successors and assigns. An e-mail or facsimile transmission by Seller to Buyer at Buyer's last known e-mail address or to Buyer's last known facsimile number shall be deemed delivered to Buyer upon Seller's transmission thereof, regardless of whether Buyer later claims non-receipt.

5. Buyer's failure to object to any terms as proposed by Seller within ten (10) days after receipt of this Agreement shall be deemed to be Buyer's acceptance of those terms. In order for any change or amendment to this order to be binding upon Seller it must be accepted in writing by Seller.

6. Unless Seller and Buyer otherwise agree in writing, Buyer shall pay Seller's invoice within thirty (30) days of the invoice date. Interest shall accrue on each late payment at the lesser of: (a) the highest rate permitted by law, and (b) one and one-half percent per month compounded monthly. Should Seller choose to hire an attorney to collect monies claimed due hereunder from Buyer to Seller, Buyer shall pay to Seller, in addition to all other sums due to Seller, the reasonable attorneys' fees, expert fees, costs and other expenses Seller incurs to pursue collection from the Buyer.

7. Should Seller learn of any information that causes Seller concern about Buyer's ability to perform any of its obligations owing to Seller under this sale, Seller has the right to request Buyer to provide Seller adequate assurance of due performance on such terms as are deemed reasonable by Seller when acting in good faith, including the right to await full or partial payment from Buyer as demanded by Seller. In such an instance, Seller may suspend its performance pending Buyer's receipt of adequate assurance of due performance in a manner found acceptable by Seller.

8. Acceptance of contracts is at all times subject to the Seller's credit approval and the Seller reserves the right to require full or partial payment in advance if, in the Seller's opinion, the financial condition of the Buyer does not justify shipment of material. If at any time, in the Seller's judgment, reasonable doubt exists as to the Buyer's financial responsibility, or if Buyer is past due in payment of any amount owing to Seller under this or any other contract, Seller reserves the right, without liability and without prejudice to any other remedies to suspend performance, decline to ship, or stop any material in transit, until Seller receives payment of all amounts owing to Seller whether or not due, or adequate assurance of such payment.

9. Although title to the materials does not transfer from the Buyer to the Seller until the materials have been received at the subject construction site, and payments have been made by the Buyer to the Seller, all prices are F.O.B. Seller's warehouse in Missouri. Buyer shall arrange for all insurance. Risk of loss to each item sold hereunder passes to Buyer immediately before that item is shipped from Seller's warehouse. Title, ownership, and risk of loss of products and materials provided by Trinity Products, LLC to the Customer is transferred from Trinity Products, LLC to the Customer (1) at the site of the construction project after fabrication is complete and where the materials supplied by Trinity Products, LLC will actually be used and/or installed upon final written acceptance by the Customer if payment in full has been made by the Customer to Trinity Products, LLC, or (2) five (5) days after the aforementioned materials are delivered to the project site where they will be used and/or installed and payment in full has been made by the Customer to Trinity Products, LLC, whichever occurs first. Actual and constructive possession is not transferred at any other time with the SOLE EXCEPTION of the event of "Customer pickup" at any of the business locations of Trinity Products, LLC and/or its affiliate locations in the State of Missouri, in which case title, ownership, and risk of loss are transferred from Trinity Products, LLC to the Customer in the State of Missouri once payment in full has been made by the Customer to Trinity Products, LLC and the Customer will be invoiced and will pay all applicable Missouri sales/use taxes (including local tax). The Customer shall at all times remain exclusively responsible for payment to Trinity Products, LLC of any and all sales tax, use tax and any other transaction taxes that may be determined to be applicable by any Governmental Entity that emanate from this transaction(s) and shall also be responsible for any other costs incurred by Trinity Products, LLC as set forth in term #3 above.

10. It is agreed that no retainage is allowed on this sale for labor or materials and invoices will be paid in full within the thirty day period specified. Any legal fees or other collection costs shall be borne by Buyer.

11. Seller shall not be responsible for any inability to perform under the TERMS or for any loss or damage due to delays or disruptions resulting directly or indirectly from, or contributed to by, any act of God, action or omission of Buyer, act of civil or military authorities, fire, strike or other labor dispute, accident, flood, war, riot, terrorism, transportation delay, inability to obtain material or fuel supplies, or any other circumstances beyond Seller's reasonable control, whether similar or dissimilar to any of the foregoing.

12. Even if Seller has shop drawings prepared or Seller performs, or directs the performance, of other services in connection with this sale, this sale and the interpretation of the TERMS are nevertheless governed by Missouri law, including Article 2 of Missouri's Uniform Commercial Code.

13. Except for items sold "AS IS", Buyer shall inspect the goods sold hereunder upon their delivery and shall, to preserve a claim against Seller, notify Seller in writing within five (5) days thereafter of any defect or deficiency believed to be Seller's responsibility. Should any such item contain a defect, deficiency or non-conformity for which Seller is responsible, Seller shall repair or replace the item, at Seller's option, or Seller shall instruct Buyer in writing to return that item with shipping instructions in which case Seller's sole responsibility will be to return to Buyer the price paid therefor plus the cost for the return shipping if paid by the Buyer. Buyer's failure to furnish Seller timely notice of a defect, deficiency or non-conformity shall constitute unequivocal acceptance of the item(s). Except for the express warranties forming a part of the TERMS, **Seller disclaims all express and implied warranties, including implied warranties of merchantability and fitness for a particular purpose. Seller's liability to Buyer, whether in contract, warranty, tort or otherwise, is limited to that permitted under the "terms", and shall in no event exceed the purchase price hereunder. Notwithstanding anything seemingly to the contrary, Seller shall not be liable to Buyer for any special, incidental, indirect, liquidated or consequential damages, including without limitation damages for loss of use, lost time, delay, disruption, interference, loss of productivity, inconvenience, lost income, or lost profits.** Seller shall have no obligation to repair, replace, or accept the return of any item sold "AS IS". If Buyer inspects any of the goods prior to the delivery contemplated hereunder, the five (5) day notice period for those goods shall run from that pre-delivery inspection date.

14. Seller warrants that the material sold hereunder will conform to the description stated herein (subject to tolerances and variations consistent with current trade practices and practical testing and inspection methods); that Seller will convey good title thereto (except for any liens or encumbrances that may be caused by Buyer); and that Seller will repair or replace any defective or nonconforming material or repay the purchase price, as Seller may elect, if notified thereof in writing within one (1) year from the date of delivery. This is Seller's sole warranty with respect to the material. Seller makes no other warranty of any kind whatever express or implied and all implied warranties of merchantability and fitness for a particular purpose which exceed the aforesaid obligation are hereby disclaimed by Seller and excluded from this transaction.

15. Should Buyer wish to cancel this order, Buyer may do so only if Seller agrees in writing and material falls under standard material. In the event of any such cancellation of standard material, the purchase price shall become the sum of: (a) all costs and expenses, direct and indirect, incurred by Seller in producing the order up to the date Seller agreed in writing to the cancellation, plus (b) Seller's reasonable cancellation costs, which shall include a restocking charge of thirty-five percent (35) percent of the items not delivered to Buyer or returned by Buyer, plus (c) a reasonable markup for Seller's home office overhead and profit. Non-standard material is non-returnable and order may not be canceled. Materials deemed non-standard are available from Seller upon request.

16. Any offer made by Seller as part of this Part of this Agreement may be revoked by Seller prior to the acceptance of this Agreement in its entirety by Buyer. In any event, this offer shall only remain valid for thirty (30) days.

17. Buyer acknowledges that the "terms" form the contract and are deemed made in Missouri, and that Buyer, in relation to this sale, is deemed to be transacting business in Missouri. Any legal action concerning a claim or dispute involving Buyer and Seller, whether in contract, tort or otherwise, shall be brought in a state or federal court for the county or district in which Seller's office is located, and Buyer consents to the jurisdiction of that court in Missouri. notwithstanding the foregoing, any claim or dispute arising out of or relating to this contract, or to the goods or services supplied by Seller to Buyer, or to monies claimed due from Buyer to Seller, whether in contract, in tort, or otherwise, shall be decided by binding arbitration before a single arbitrator. If Buyer's address on this order is located in the United States, the arbitration shall be conducted under the construction industry arbitration rules of the American Arbitration Association. If Buyer's address on this order is located outside the United States, the arbitration shall be conducted under the international arbitration rules of the International Centre for dispute resolution. The arbitration award shall be enforceable in the state or federal court mentioned above. The arbitration locale shall be St. Louis, Missouri. Nothing herein shall be construed as preventing Seller from enforcing any claim or right to a mechanic's lien or any claim or right against a bond regardless of where such a claim must be filed or enforced.

18. Pricing is based on a continuous manufacturing schedule. Should this process be interrupted through no fault of the Seller. Seller shall be entitled to additional compensation. Any cost associated with such delays shall be identified by Seller and agreed to by Buyer prior to continuation with manufacturing.

19. Buyer will proceed with changes in the work herein specified only upon receipt of a written order from Buyer specifying the requested change and containing an agreed price and schedule adjustment.

20. Buyer's exclusive remedy against Seller for any damages suffered by Buyer in connection with the material and arising out of this transaction shall be for breach of contract, and Sellers' liability in this regard shall be limited to repair or replacement of defective or nonconforming material or repayment of the purchase price paid therefore by Buyer, as Seller may in its sole discretion elect. Because the sales price herein makes no provision for such risk, Seller shall in no event be liable to Buyer for any special or consequential damages including, but not limited to, erection costs, lost profits, good will, loss of time, unabsorbed overhead, inconvenience or commercial loss. Any action for breach of this contract must be commenced within one (1) year after the cause of action shall occur, and no such action may be maintained which is not commenced within such period.

21. If any provision of this Purchase Order, or portion of any provision, is declared or found to be unenforceable, the balance of this Purchase Order or such provision shall be interpreted and enforced to the greatest extent possible as if the unenforceable provision or portion had never been a part hereof. In particular, if any interest rate provided for herein is higher than that permitted by applicable law, it shall automatically be amended to the highest legal rate.

GROUT**GROUT**

Vendor Code							ACTIONPUMP	CELLCRETECOR
Vendor Name							Action Pumping	Cell-Crete Corp
Vendor Phone							4804307106	6269409251
Bid	Activity	Resource	Desc	Quan	Unit	Plug Price	Unit Price	Unit Price
1	2102100	4GROUT MOB	MOBILIZATION/DEMOLIZA	4.00	EA	5,500.0000	0.0000	5,500.0000
21	2051110	4GROUTM	ABANDON EXISTING 8" WATE	19.00	CY	66.0000	0.0000	66.0000
21	2051110	4GROUTSH	ABANDON EXISTING 8" WATE	7.00	EA	5,500.0000	0.0000	5,500.0000
22	2051110	4GROUTM	ABANDON EXISTING 12" WAT	19.00	CY	66.0000	0.0000	66.0000
22	2051110	4GROUTSH	ABANDON EXISTING 12" WAT	3.00	EA	5,500.0000	0.0000	5,500.0000
23	2051110	4GROUTM	ABANDON EXISTING 16" WAT	11.00	CY	66.0000	0.0000	66.0000
23	2051110	4GROUTSH	ABANDON EXISTING 16" WAT	1.00	EA	5,500.0000	0.0000	5,500.0000
24	2051110	4GROUTM	ABANDON EXISTING 12" SEW	24.00	CY	66.0000	0.0000	66.0000
24	2051110	4GROUTSH	ABANDON EXISTING 12" SEW	3.00	EA	5,500.0000	0.0000	5,500.0000
Quoted Amount							0	103,818
Plugged Amount							0	0
Bond							0	0
Mobilization							0	0
% Adjustment							0	0
\$ Adjustment							0	0
Total Adjustment							0	0
Totals						103,818	0	103,818
Diff From Plug							-103,818	0
Total Minority							0	0

A 'P' beside a price indicates a plug price.

Green background indicates that the vendor is selected.

SOUND-CRETE CONTRACTORS, INC.

ARIZONA REGIONAL OFFICE

2615 S 40th Street
Phoenix, AZ 85034
602-438-4510- Office
602-438-9726 – Fax

Bid Number: 220415-1-AV01

April 15, 2022

Attn: Estimating Dept.

**Project: CHANDLER HEIGHTS RD UTILITY RELOCATIONS (CMAR) PACKAGE 3
Chandler, AZ.**

Re: Low Density Cellular Concrete Abandonment (Alternative)

Scope: Provide labor, equipment and materials for annular grouting with 30 PCF 80 psi min Cellular Concrete to pipeline described below. General Contractor to provide traffic control, water, and setup area (24'X80' or 12'X120'). Price includes all applicable taxes. **Price good through the end of 2022.**

Pipe Abandonment

Description	Quantity	Units	Unit Price	Total
Low Density Cellular Concrete 30 PCF 80 PSI min, 8", 12" & 16" Pipe Abandonment	46	CY	\$ 66.00	\$ 3,036.00
Work-Day (Labor and Equip)	6	Each	\$ 5,500.00	\$ 33,000.00
Mobilization	4	Each	\$ 5,500.00	\$ 22,000.00
			TOTAL	\$ 58,036.00

General Conditions:

1. Price includes Material, 1 full mobilization, 3 partial mobilizations and 6 workdays, all items shown on tables shall be awarded collectively in order to hold pricing. Add \$5500 for additional workday, \$6000 for full mobilization (equipment off-site) and \$5000 for partial mobilization (equipment on-site).
2. Contractor to provide lines free of standing water and blow air prior to our arrival to ensure the lines are free of blockages. If foreign liquids or hydrocarbons are encountered in the line it will result in a yield loss of our material; contractor will be responsible for all overages as a result of yield loss caused by foreign liquids or hydrocarbons in the line.
3. Bulkheads are excluded, will be installed by contractor shall be watertight and able to withstand the pumping pressure applied by the grouting process.
4. Cell-Crete accepts no responsibility for the placing of concrete product into lines, vessels or any areas not properly insulated. Materials when used for pipe fills must be contained during the placement process.
5. Contractor to install concrete bulkheads with 3" threaded inlet pipes at or above street level at each inlet location with valves on the inlet side. No hard 90's only sweeps are to be used in the injection ports. We must pressurize to move material down the line. 2" or larger vent pipe or catch basin at end of run with threaded cap.
6. Bid Cell-Crete works a typical 7-3:30, 40 hour work week unless specifically contracted otherwise. All prices based upon normal working hours excluding weekend and night work.
7. GC to provide 24 hour advanced notice of any unavailable work onsite for non-concurrent working days. If no notice is given and Cell Crete Corporation shows up to the site, and no work is available a \$2,800 show up fee will be charged (4hour charge @ \$700/hour).

Page 1 of 2

SPECIALTY CONCRETE CONTRACTORS

CORPORATE OFFICE 135 E. Railroad Avenue · Monrovia, CA 91016-4652 (626) 357-3500 (800) 660-8062 · FAX (626)357-2537
NORTHERN CALIFORNIA 995 Zephyr Avenue · Hayward, CA 94544 · (510) 471-7257 (800) 696-0433 · FAX (510) 471-6426
SAN DIEGO 530 Oppen Street, Suite A · Escondido, CA 92029 · (760) 291-1240 (877) 291-1240 · FAX (760) 291-1242
ARIZONA 2615 S 40th Street · Phoenix, AZ 85034 · (602) 438-4510 · FAX (602) 438-9726
NEVADA 3475 John Peter Lee Avenue · North Las Vegas, NV 89032 · (702) 366-1954 · FAX (702) 366-9474

CALIFORNIA
#243404

ARIZONA
#104888

NEVADA
#10689

UTAH
#4835096-5501

IDAHO
#15868-a-(9)

ALASKA
#29473

SOUND-CRETE CONTRACTORS, INC.

ARIZONA REGIONAL OFFICE

2615 S 40th Street
Phoenix, AZ 85034
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8. Contractor to provide a minimum of 2 weeks' notice for each mobilization.
9. Bid subject to approval by the Project Engineer
10. Bid bond amount is excluded from base bid added cost of bond is 1%.
11. Contractor agrees this is a per unit contract, not a lump sum contract. Excludes Bonds and Textura fees or other fee based platforms, the costs associated with this will be passed on as an added cost to the GC in addition to contract amount.
12. Cement prices good for 120 days from the date of the bid opening. Annual increases equal to the increase in Cement price from the supplier and/or increased labor costs to be expected if the job runs longer than 1 year.
13. Contractor to provide washout and washout disposal adjacent to our batch plant. **Add \$500/day if Cell-Crete provides washouts.**
14. Production rate is based on consistent supply of bulk cement. Freight delays due to site logistics and unforeseen conditions /traffic delays will impact production rate. Contractor to provide traffic controls that includes all lane closure permits and flagmen for such closures.
15. Maximum retention shall be 5%. Payable within 120 days of completion of scope. Payment terms are net 30 unless otherwise specified.
16. Bid does not include local hire labor or DBE requirements if any are required. Our crews are usually 3-5 people, and we cannot obtain useful labor from the hall for short duration jobs. If a local hire is required, please include the direct cost to our contract.
17. Cell-Crete cannot be responsible for liquidated damages without an agreed upon schedule, or negotiated LD costs. Contractor to create a schedule that is acceptable by Cell-Crete.
18. Contractor to provide a continuous water supply with an appropriate 2" water connection with minimum of 70-psi pressure and a minimum of 200 gallons/minute. Delays caused by the lack of continuous water or other delays will be charged at a rate of \$700 per hour and \$1,000 per hour for over time.
19. Quantity to be determined by readings from Cell-Crete's mixing equipment. If alternate method of measurement requested, it is to be agreed upon prior to the first day of placement and to be verified accurate and acceptable to Cell-Crete Corporation. Cell-Crete requires opportunity to attend all measurements that determine our material quantity including surveyor-shooting grade before placement of initial lift of material.
20. Cell-Crete will present a "Daily Report" for each working day to your onsite superintendent to verify quantities
21. installed. Your onsite superintendent is authorized to sign the "Daily Report" on Contractor's behalf unless Cell-Crete is notified in writing.
22. Contractor to provide safe access and a set up area of a minimum of 24'x80' adjacent to fill with good access for up to 6 trucks at one time.
23. Contractor to provide OSHA requirements i.e. Safety rails, lighting, protection of openings, access ladders-etc. Cell-Crete to provide safety equipment for standards for our crews and equipment. Excludes third party testing, de-watering, bulkheads and formwork, feed and vent pipes, cleaning, shoring, excavation, traffic control, gas testing, backfill and access. Snow plow access/clearing roads responsibility of contractor.
24. Contractor to provide traffic controls that includes all lane closure permits and flagmen for such closures.
25. There shall be no clauses requiring Cell-Crete Corp. to assume liability for any act of others.
26. Purchase orders, contracts and change orders must be executed before the start of associated work.
27. This quotation shall be attached and all terms herein are to be part of the final contract. Additional terms will not be part of this Contract unless agreed to by Cell-Crete Corporation in writing. If there are any contradictions /
28. conflicts between this quotation's terms and the final contract's terms, this quotation's terms shall be deemed controlling and the contradictions / conflicts in the final contract's terms shall be disregarded.
29. 2 hour safety training is included in bid. If more than 2 hour training is needed due to site specific compliance please add cost at \$700/hour.
30. Warranty period included in bid shall not exceed 1 year from date of LCC scope completion.
31. Standard insurance included in bid is \$2 million general liability and \$1 million workers comp.

Page 2 of 3

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ARIZONA REGIONAL OFFICE

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Phoenix, AZ 85034
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602-438-9726 – Fax**

Estimated by:

**Vishvesh Mehta
(626) 483-8898
vmehta@cell-crete.com**

Page 3 of 3

SPECIALTY CONCRETE CONTRACTORS

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ALASKA
#29473

Quote Analysis Report

Achen-Gardner Construction, LLC 71

Mark McLafferty

39381003

CHANDLER HEIGHTS RD PACKAGE 3

Page 1 of 2

4/18/2022 3:19 PM

PIPEPK

PIPE PACAKGE

Vendor Code							COREMAIN
Vendor Name							Core&Main
Vendor Phone							4809267003
Bid	Activity	Resource	Desc	Quan	Unit	Plug Price	Unit Price
		216TEC	16" CONNECTION MATL	10.00	EA	0.0000	3,692.8000
		224CONT	CONNECT TO 24" MATLS	2.00	EA	0.0000	10,638.9500
		2CAV1	1" COMBO AIR VAC	8.00	EA	0.0000	1,082.1600
		2DIP12	12" DIP WATERLINE	89.00	LF	0.0000	97.7600
		2DIP16	16" DIP WATERLINE	197.00	LF	0.0000	354.6400
		2DIP6	6" DIP WATERLINE	266.00	LF	0.0000	41.5300
		2DIP8	8" DIP WATERLINE	1,448.00	LF	0.0000	71.5000
		2DIPR12	12" DIP RW	798.00	LF	0.0000	90.0800
		2DIPR8	8" DIP RW	327.00	LF	0.0000	58.7400
		2GV12	12" GATE VALVE	7.00	EA	0.0000	3,002.9500
		2GV16	16" GATE VALVE	6.00	EA	0.0000	7,546.6000
		2GV6	6" GATE VALVE	8.00	EA	0.0000	862.4200
		2GV8	8" GATE VALVE	27.00	EA	0.0000	1,812.6800
		2HYD	HYDRANT MATERIALS	8.00	EA	0.0000	2,764.6800
		2VCP08	8" VCP	48.00	LF	0.0000	18.3000
		2VCP12	12" VCP	1,694.00	LF	0.0000	38.1300
		2PGSC	INSTALL 6" DIP CL 350 WATE	1.00	EA	220.9400	220.9400
		2PGSC	INSTALL 6" GATE VALVE	1.00	LS	137.9900	137.9900
		2PGSC	INSTALL 8" DIP CL 350 WATE	1.00	LS	2,070.6400	2,070.6400
		2PGSC	INSTALL 8" DIP CL 350 RECL	1.00	LS	384.1600	384.1600
		2PGSC	INSTALL 8" GATE VALVE	1.00	LS	978.8500	978.8500
		2PGSC	INSTALL 12" DIP CL 350 WAT	1.00	LS	174.0200	174.0200
		2PGSC	INSTALL 12" DIP CL 350 REC	1.00	LS	1,437.6800	1,437.6800
		2PGSC	INSTALL 12" GATE VALVE	1.00	LS	420.4200	420.4200
		2PGSC	INSTALL 16" DIP CL 350 WAT	1.00	LS	1,397.2900	1,397.2900
		2PGSC	INSTALL 16" GATE VALVE	1.00	LS	905.6000	905.6000
		2PGSC	CONNECT TO EXISTING 16"	1.00	LS	738.5600	738.5600
		2PGSC	CONNECT TO EXISTING 24"	1.00	LS	425.5600	425.5600
		2PGSC	INSTALL 1" COMBO AIR VAC	1.00	LS	173.1500	173.1500
		2PGSC	INSTALL FIRE HYDRANT COC	1.00	LS	442.3500	442.3500
Quoted Amount							570,736
Plugged Amount							0
Bond							0
Mobilization							0
% Adjustment							0
\$ Adjustment							0
Total Adjustment							0
Totals						9,907	570,736

A 'P' beside a price indicates a plug price.

Green background indicates that the vendor is selected.

Diff From Plug		560,829	
Total Minority		0	



Bid Proposal for Chandler Heights GMP 3

CUSTOMER

ACHEN GARDNER CONSTRUCTION LLC

550 S 79TH STREET
CHANDLER, AZ 85226

Job

Chandler Heights GMP 3
Chandler, AZ
Bid Date: 04/04/2022
Bid #: 2279941

CONTACT

Sales Representative

Justin Paule
(M) 480-688-0977
(T) 480-688-0977
Justin.Paule@coreandmain.com

Core & Main

1410 W Harvard Ave
Gilbert, AZ 85233
(T) 480-926-7003

NOTES

***** CURRENT ESTIMATED DUCTILE IRON SURCHARGE PRICING AT \$8785.60 *****



Bid Proposal for Chandler Heights GMP 3

ACHEN GARDNER CONSTRUCTION LLC
Job Location: Chandler, AZ

Bid Date: 04/04/2022

Core & Main 2279941

Core & Main

1410 W Harvard Ave

Gilbert, AZ 85233

Phone: 480-926-7003

Fax: 480-926-7050

Seq#	Qty	Description	Units	Price	Ext Price
		DUE TO CURRENT SUPPLY CHAIN DISRUPTIONS, MATERIALS ARE SUBJECT TO PRICING AT TIME OF SHIPMENT. MATERIAL AVAILABILITY AND TIMELINESS OF SHIPMENTS CANNOT BE GUARANTEED. THIS TERM SUPERSEDES ALL OTHER CONTRACTUAL PROVISIONS.			
		DUE TO ESCALATED PRICES ON SCRAP METAL, RESULTING FROM THE RUSSIA-UKRAINE WAR, A MANUFACTURER IMPOSED SURCHARGE WILL BE ADDED TO ALL SHIPMENTS OF DUCTILE IRON PIPE. AN ESTIMATE OF THE SURCHARGE IS INCLUDED IN THIS BID FOR YOUR REFERENCE. THE MANUFACTURER SURCHARGE IS SUBJECT TO CHANGE AND WILL BE CALCULATED AT THE TIME OF SHIPMENT.			
10	56	8 CLAY PIPE BXS	FT	14.95	837.20
20	2	1002-88 8 CLAYXCI/PVC CPLG	EA	20.43	40.86
SUBTOTAL					878.06
40	1688	12 CLAY PIPE PE BE	FT	36.12	60,970.56
50	13	1002-1212 12 CLAYXCI/PVC CPLG	EA	39.26	510.38
60	2000	WIRE 14/1 X 500 UF GREEN SOLID 500	FT	0.17	340.00
70	2	3X1000' DET TAPE SEWER GREEN	EA	65.00	130.00
SUBTOTAL					61,950.94
90		16" WATER			
100	480	16 TJ CL50 PR350 DI PIPE MCWANE	FT	76.00	36,480.00
110	20	16 SURE STOP LOCKING GASKET	EA	490.69	9,813.80
120	680	37"X340'POLYWRAP BLK F/14"-18" BS(W/20' PERF)	FT	1.45	986.00
130	36	T-10-2 UPC 10 MIL TAPE 2"X100'	EA	8.00	288.00
140	3	16X6 MJXFLG TEE C153 IMP	EA	947.26	2,841.78
150	101	16 ONE-LOK DI RESTR SLDE16 (I) SIGMA (DIP) GLAND ONLY	EA	234.63	23,697.63
160	101	16 MJ REGULAR ACC SET L/GLAND	EA	63.71	6,434.71
170	4	16 MJ TEE C153 IMP	EA	1,325.66	5,302.64
190	6	16 F6106 MJXFLG RW GV OL L/ACC ON CLOW GATE VALVE EPOXY COATED W/STAINLESS STEEL BOLTS & NUTS	EA	7,250.00	43,500.00
200	6	16X1/8 FF CLOTH IN RUBBER GSKT	EA	22.40	134.40
210	6	16 MAG HDG BOLT&NUT KIT L/GSKT A307A HOT DIP GALV	EA	60.29	361.74
220	6	36 564-A BOTTOM ONLY IMP	EA	66.88	401.28
230	6	16 562-A TOP ONLY IMP	EA	47.03	282.18
240	6	SWSERVICE NPR600-WA 562A POLYM	EA	42.31	253.86
250	6	DC457 DEBRIS CAP-BLUE	EA	57.69	346.14
SUBTOTAL					45,279.60



Bid Proposal for Chandler Heights GMP 3

Bid #: 2279941

Seq#	Qty	Description	Units	Price	Ext Price
270	11	16 MJ 90 C153 IMP	EA	946.01	10,406.11
290	4	12 F6106 MJXFLG RW GV OL L/ACC CLOW GATE VALVE EPOXY COATED W/STAINLESS STEEL BOLTS & NUTS	EA	2,638.24	10,552.96
300	4	12X1/8 FF CLOTH RUBBER GASKET	EA	14.86	59.44
310	4	10-12 MAG BOLT&NUT KIT L/GSKT HDG A307A HOT DIP GALV	EA	29.46	117.84
320	4	36 564-A BOTTOM ONLY IMP	EA	66.88	267.52
330	4	16 562-A TOP ONLY IMP	EA	47.03	188.12
340	4	SWSERVICE NPR600-WA 562A POLYM	EA	42.31	169.24
350	4	DC457 DEBRIS CAP-BLUE	EA	57.69	230.76
SUBTOTAL					11,585.88
370	5	16 SURE STOP GASKET EPDM	EA	540.24	2,701.20
380	1	16X12 MJ TEE C153 IMP	EA	1,050.35	1,050.35
400	7	16 BLIND FLG DI PR IMP	EA	397.00	2,779.00
410	7	16X1/8 FF CLOTH IN RUBBER GSKT	EA	22.40	156.80
420	7	16 MAG HDG BOLT&NUT KIT L/GSKT A307A HOT DIP GALV	EA	60.29	422.03
440	12	16X8 MJXFLG TEE C153 IMP	EA	1,149.03	13,788.36
450	20	16 MJ L/P SLV C153 IMP	EA	609.09	12,181.80
SUBTOTAL					186,195.69
470		12" RECLAIMED			
480	860	12 TJ PR350 DI PIPE MCWANE	FT	46.97	40,394.20
490	24	12 SURE STOP LOCKING GASKET	EA	211.62	5,078.88
500	1050	27"X340' POLYWRAP PUR F/10-12" PURPLE (W/20' PERF)	FT	1.39	1,459.50
510	36	T-10-2 UPC 10 MIL TAPE 2"X100'	EA	8.00	288.00
520	1000	FT 12GA PURPLE UF TRACING WIRE 12/1 X 500 FT ROLL	FT	0.22	220.00
530	1	3"X1000' DET TAPE PURPLE "RECLAIMED WATER" 1000' ROLL	EA	65.00	65.00
540	17	12 MJ 90 C153 IMP	EA	432.26	7,348.42
550	2	12 MJ 11-1/4 C153 IMP	EA	293.16	586.32
560	45	12 ONE-LOK DI RESTR SLDE12 (I) SIGMA (DIP) GLAND ONLY	EA	123.86	5,573.70
570	45	12 MJ REGULAR ACC SET L/GLAND	EA	40.31	1,813.95
580	22	12 SURE STOP GASKET EPDM	EA	241.65	5,316.30
590	3	12 MJ L/P SLV C153 IMP	EA	329.56	988.68
600	1	BR2B1314IP100 SAD 12X1IP 13.14-14.58 DBL STRAP BRNZ SAD	EA	237.33	237.33
610	6	12 BLIND FLG DI IMP	EA	373.76	2,242.56
620	6	12X1/8 FF CLOTH RUBBER GASKET	EA	14.86	89.16
630	6	10-12 MAG BOLT&NUT KIT L/GSKT HDG A307A HOT DIP GALV	EA	29.46	176.76
SUBTOTAL					71,878.76
650		12" WATER			
660	140	12 TJ PR350 DI PIPE MCWANE	FT	46.97	6,575.80
670	8	12 SURE STOP LOCKING GASKET	EA	211.62	1,692.96
680	340	27"X340' POLYWRAP BLK F/10-12" BS(W/20' PERF)	FT	1.27	431.80
SUBTOTAL					8,700.56
700		12" GATE VALVE			
710	7	12 F6106 MJXFLG RW GV OL L/ACC CLOW GATE VALVE EPOXY COATED W/STAINLESS STEEL BOLTS & NUTS	EA	2,638.24	18,467.68



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Seq#	Qty	Description	Units	Price	Ext Price
720	7	36 564-A BOTTOM ONLY IMP	EA	66.88	468.16
730	7	16 562-A TOP ONLY IMP	EA	47.03	329.21
740	7	SWSERVICE NPR600-WA 562A POLYM	EA	42.31	296.17
750	7	12X1/8 FF CLOTH RUBBER GASKET	EA	14.86	104.02
760	7	10-12 MAG BOLT&NUT KIT L/GSKT HDG A307A HOT DIP GALV	EA	29.46	206.22
770	7	12 ONE-LOK DI RESTR SLDE12 (I) SIGMA (DIP) GLAND ONLY	EA	123.86	867.02
780	7	12 MJ REGULAR ACC SET L/GLAND	EA	40.31	282.17
SUBTOTAL					21,020.65
800		8" WATER			
810	1500	8 TJ PR350 DI PIPE MCWANE	FT	30.65	45,975.00
820	1700	20"X340' POLYWRAP BLK F/6"-8" BS (W/20'PERF)	FT	0.79	1,343.00
830	36	T-10-2 UPC 10 MIL TAPE 2"X100'	EA	8.00	288.00
840	1500	WIRE 14/1 X 500 UF BLUE SOLID FEED 500' ROLL	FT	0.17	255.00
850	2	3X1000' DET TAPE WATER BLUE	RL	65.00	130.00
860	186	8 ONE-LOK DI RESTR SLDE8 (I) SIGMA (DIP) GLAND ONLY	EA	57.36	10,668.96
870	186	8 MJ REGULAR ACC SET L/GLAND	EA	29.26	5,442.36
880	61	8 SURE STOP GASKET EPDM	EA	160.15	9,769.15
890	22	8 SURE STOP LOCKING GASKET	EA	145.72	3,205.84
900	72	8 MJ 90 C153 IMP	EA	202.80	14,601.60
910	9	8 MJ L/P SLV C153 IMP	EA	204.76	1,842.84
920	1	8 MJ TEE C153 IMP	EA	301.61	301.61
930	2	8 FLG TEE C110 IMP	EA	575.78	1,151.56
940	4	8 MJXFLG ADPT C153 IMP	EA	169.00	676.00
950	4	8X6 MJ RED C153 IMP	EA	118.96	475.84
960	6	BR2B0899IP100 SAD 8X1IP 8.99-9.67 DBL STRAP BRNZ SAD	EA	163.66	981.96
970	30	8 BLIND FLG DI IMP	EA	185.90	5,577.00
980	3	8X6 MJXFLG TEE C153 IMP	EA	280.16	840.48
SUBTOTAL					103,526.20
1000		8" RECLAIMED			
1010	480	8 TJ PR350 DI PIPE MCWANE	FT	30.65	14,712.00
1020	700	20"X 340' POLYWRAP PURP F/6-8" PS (W/20'PERF)	FT	1.04	728.00
1030	12	T-10-2 UPC 10 MIL TAPE 2"X100'	EA	8.00	96.00
1040	500	FT 12GA PURPLE UF TRACING WIRE 12/1 X 500 FT ROLL	FT	0.22	110.00
1050	1	3"X1000' DET TAPE PURPLE "RECLAIMED WATER" 1000' ROLL	EA	65.00	65.00
1060	24	8 SURE STOP LOCKING GASKET	EA	145.72	3,497.28
SUBTOTAL					19,208.28
1080		8" GATE VALVE			
1090	27	8 F6106 MJXFLG RW GV OL L/ACC CLOW GATE VALVE EPOXY COATED W/STAINLESS STEEL BOLTS & NUTS	EA	1,374.81	37,119.87
1100	27	8X1/8 FF CLOTH INS RUB GSKT	EA	7.63	206.01
1110	27	6-8 MAG BOLT & NUT KIT L/GSKT HDG A307A HOT DIP GALV	EA	11.03	297.81
1120	27	24 562-A BOTTOM ONLY IMP	EA	47.75	1,289.25
1130	27	5 CI SOIL PIPE SGL HUB 5'	PC	137.81	3,720.87
1140	27	16 562-A TOP ONLY IMP	EA	47.03	1,269.81
1150	27	SWSERVICE NPR600-WA 562A POLYM	EA	42.31	1,142.37
1160	27	DC457 DEBRIS CAP-BLUE	EA	57.69	1,557.63
1170	27	8 ONE-LOK DI RESTR SLDE8 (I) SIGMA (DIP) GLAND ONLY	EA	57.36	1,548.72
1180	27	8 MJ REGULAR ACC SET L/GLAND	EA	29.26	790.02



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SUBTOTAL					48,942.36
1200		6" WATER			
1210	306	6 TJ CL50 PR350 DI PIPE	FT	23.27	7,120.62
1220	17	6 TJ FIELD LOK 350 GASKET SBR	EA	102.47	1,741.99
1230	34	6 ONE-LOK DI RESTR SLDE6 (I) SIGMA (DIP) GLAND ONLY	EA	38.18	1,298.12
1240	34	6 MJ REGULAR ACC SET L/GLAND	EA	26.00	884.00
1260	7	6 F6106 MJXFLG RW GV OL L/ACC CLOW GATE VALVE EPOXY COATED W/STAINLESS STEEL BOLTS & NUTS	EA	879.81	6,158.67
1270	7	36 564-A BOTTOM ONLY IMP	EA	66.88	468.16
1280	7	16 562-A TOP ONLY IMP	EA	47.03	329.21
1290	7	SWSERVICE NPR600-WA 562A POLYM	EA	42.31	296.17
1300	7	DC457 DEBRIS CAP-BLUE	EA	57.69	403.83
1310	7	6X1/8 FF CLOTH INS RUB GASKET	EA	5.29	37.03
1320	7	6-8 MAG BOLT & NUT KIT L/GSKT HDG A307A HOT DIP GALV	EA	11.03	77.21
1330	7	6 ONE-LOK DI RESTR SLDE6 (I) SIGMA (DIP) GLAND ONLY	EA	38.18	267.26
1340	7	6 MJ REGULAR ACC SET L/GLAND	EA	26.00	182.00
SUBTOTAL					8,219.54
1360		16' HYDRANT			
1370	2	5-1/4VO MED 3'6"B SCOTTS VERT HYD OL 6IN VERTICAL FLG SHOE 1-1/2IN PENT (2) 2-1/2IN NST HOSE NOZ (1) 4-1/2IN NST	EA	1,659.45	3,318.90
1380	2	6 FLGXPE DI PIPE 16' IMP	EA	1,545.40	3,090.80
1390	2	6 MJ 90 C153 IMP	EA	140.40	280.80
1400	4	6 ONE-LOK DI RESTR SLDE6 (I) SIGMA (DIP) GLAND ONLY	EA	38.18	152.72
1410	4	6X1/8 FF CLOTH INS RUB GASKET	EA	5.29	21.16
1420	4	6-8 MAG BOLT & NUT KIT L/GSKT HDG A307A HOT DIP GALV	EA	11.03	44.12
SUBTOTAL					6,908.50
1440		14' HDYRANT			
1450	3	5-1/4VO MED 3'6"B SCOTTS VERT HYD OL 6IN VERTICAL FLG SHOE 1-1/2IN PENT (2) 2-1/2IN NST HOSE NOZ (1) 4-1/2IN NST	EA	1,659.45	4,978.35
1460	3	6 FLGXPE DI PIPE 14' IMP	EA	1,372.06	4,116.18
1470	3	6 MJ 90 C153 IMP	EA	140.40	421.20
1480	6	6 ONE-LOK DI RESTR SLDE6 (I) SIGMA (DIP) GLAND ONLY	EA	38.18	229.08
1490	6	6 MJ REGULAR ACC SET L/GLAND	EA	26.00	156.00
1500	3	6X1/8 FF CLOTH INS RUB GASKET	EA	5.29	15.87
1510	3	6-8 MAG BOLT & NUT KIT L/GSKT HDG A307A HOT DIP GALV	EA	11.03	33.09
SUBTOTAL					9,949.77
1530	2	5-1/4VO MED 3'6"B SCOTTS DALE HYD OL 6IN MJ SHOE L/ACC 1-1/2IN PENT (2) 2-1/2IN NST HOSE NOZ (1) 4-1/2IN NST	EA	2,629.58	5,259.16
1550		1" COMBO ARV			
1560	8	B25025N 1 BALL CORP MIPXCF AWWA IP X COP FLARE NO LEAD	EA	72.05	576.40
1570	320	1 HARD K COPPER TUBE 20'	FT	8.45	2,704.00
1580	32	1 WROT COPPER 90 BEND CXC	EA	2.85	91.20
1590	8	P25172N 1 BALL CURB PICTSXFIP PACK JT CTS X FIP NO LEAD	EA	110.42	883.36
1600	8	1X6 BRASS NIPPLE NO LEAD (I)	EA	12.93	103.44
1610	8	1 BRASS 90 NO LEAD (I)	EA	8.49	67.92



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Seq#	Qty	Description	Units	Price	Ext Price
1620	8	1" ARI D040 AIR RELEASE VALVE	EA	257.56	2,060.48
1630	8	#4 CONC MB EXT/STACK BOX PHOE- NIX	EA	72.07	576.56
1640	8	#4 CONC METER BOX BODY PHOENIX	EA	72.07	576.56
1650	8	#4 MAG POLY LID W/AMR WATER A6001852-H9	EA	127.17	1,017.36
				SUBTOTAL	8,657.28
1670		24" RECLAIMED			
1680	2	24X8 MJXFLG TEE C153 IMP	EA	2,213.21	4,426.42
1690	10	24 SIGMA RESTR SLCE24 C900 (I) F/C900	EA	553.68	5,536.80
1700	10	24 MJ REGULAR ACC SET L/GLAND	EA	88.40	884.00
1710	40	24 PVC C900 DR18 PIPE (G) 20' PURP PC235	FT	193.75	7,750.00
1720	2	24 MJ L/P SLV C153 IMP	EA	1,276.63	2,553.26
1740	1	6 MJ L/P SLV C153 IMP	EA	127.41	127.41
				SUBTOTAL	21,277.89
				SUBTOTAL	71,316.87
				Sub Total	593,618.37
				Other	8,785.60
				Tax	0.00
				Total	602,403.97

UNLESS OTHERWISE SPECIFIED HEREIN, PRICES QUOTED ARE VALID IF ACCEPTED BY CUSTOMER AND PRODUCTS ARE RELEASED BY CUSTOMER FOR MANUFACTURE WITHIN THIRTY (30) CALENDAR DAYS FROM THE DATE OF THIS QUOTATION. CORE & MAIN LP RESERVES THE RIGHT TO INCREASE PRICES TO ADDRESS FACTORS, INCLUDING BUT NOT LIMITED TO, GOVERNMENT REGULATIONS, TARIFFS, TRANSPORTATION, FUEL AND RAW MATERIAL COSTS. DELIVERY WILL COMMENCE BASED UPON MANUFACTURER LEAD TIMES. ANY MATERIAL DELIVERIES DELAYED BEYOND MANUFACTURER LEAD TIMES MAY BE SUBJECT TO PRICE INCREASES AND/OR APPLICABLE STORAGE FEES. THIS BID PROPOSAL IS CONTINGENT UPON BUYER'S ACCEPTANCE OF SELLER'S TERMS AND CONDITIONS OF SALE, AS MODIFIED FROM TIME TO TIME, WHICH CAN BE FOUND AT: <https://coreandmain.com/TandC/>

POLYMH POLYMER MANHOLE

Vendor Code							ARMOROCK	
Vendor Name							Armorock	
Vendor Phone							7028249702	
Bid	Activity	Resource	Desc	Quan	Unit	Plug Price	Unit Price	
		2POLYMH	5' POLYMER MANHOLE	9.00	EA	0.0000	12,801.2300	
		4MHBASE	MH BASE SUB	9.00	EA	0.0000	4,325.0000	
Quoted Amount							154,136	
Plugged Amount							0	
Bond							0	
Mobilization							0	
% Adjustment							0	
\$ Adjustment							0	
Total Adjustment							0	
Totals						0	154,136	
Diff From Plug							154,136	
Total Minority							0	

A 'P' beside a price indicates a plug price.
Green background indicates that the vendor is selected.



14555 Spring Canyon Road
Boulder City, NV 89006

207 Heritage Court
Sulphur Springs, TX 75482

702-824-9702
www.armorock.com

Quote Date: 4/1/2022

To:

Ref: Chandler Heights Rd. Utility Relocations Alma Sch
Chandler, AZ

Q U O T A T I O N

Notes:

1. Quote is subject to our standard terms, conditions, and shipping policies.
2. Payment is due at Net 30. Late Payment service charge for over 30 days will be charged at 18% APR
3. Quote is valid for 60 days from issue date to receipt of PO after 60 days quote is subject to change based off market value of materials.
4. All applicable taxes are to be paid by purchaser
5. If owner requires items to be grouted in field contractor is responsible for materials and labor costs incurred.
6. All loads will be billed at \$1700 per truck. Total of four(4) trucks needed for job. Customer will only be billed for trucks used. Additional trucks will be billed at market rate.
7. Freight requested under 3 days notice may be subject to increased freight rates
8. Products will be billed at unit pricing per quotation
9. Rush orders will be priced accordingly.
10. Contractor shall be responsible for joint sealing and performance.
11. Miscellaneous items such as grout, epoxy, and hardware are not included with the structures unless a specific line item is shown on this quote. Additional charges will apply for any extra items that are not shown on this quote.
12. Final lead time is determined at date of approved submittal.

From:



14555 Spring Canyon Road
Boulder City, NV 89006

207 Heritage Court
Sulphur Springs, TX 75482

702-824-9702
www.armorock.com

For:

Ref: Chandler Heights Rd. Utility Relocations Alma Sch
Chandler, AZ

Quote Date: 4/1/2022

Structure	Description	Height	Weight	Price
Spreader Bar with Lifting Equipment		0.00'	0	\$1,943
1	SPREADER BAR AND RIGGING FOR LIFTING			
Manhole #1 (Alma School)	60"-30" Polymer Manhole	18.44'	8,229	\$12,789
1	30" CITY OF CHANDLER SEWER A-1700 R&C	2	50304-GR	30 IN X 4 IN POLYMER GRADE RING
1	50530-C	2	50572-S	60 IN X 6 FT POLYMER MH SECTION
1	50512-SNB	6	JM1.25	1.25 IN X 14 FT JOINT MASTIC ROLL
1	PEPOXY			EPOXY KIT FOR CIP BASE
Manhole #2 (Alma School)	60"-30" Polymer Manhole	18.03'	8,006	\$12,448
1	30" CITY OF CHANDLER SEWER A-1700 R&C	1	50303-GR	30 IN X 3 IN POLYMER GRADE RING
1	50530-C	2	50572-S	60 IN X 6 FT POLYMER MH SECTION
1	50512-SNB	6	JM1.25	1.25 IN X 14 FT JOINT MASTIC ROLL
1	PEPOXY			EPOXY KIT FOR CIP BASE
MH #01	60"-30" Polymer Manhole	19.38'	8,474	\$13,149
1	30" CITY OF CHANDLER SEWER A-1700 R&C	1	50302-GR	30 IN X 2 IN POLYMER GRADE RING
1	50303-GR	1	50530-C	60 IN X 3 FT ECC POLYMER CONE 30 IN
2	50572-S	1	50524-SNB	60 IN X 2 FT POLYMER MH SECTION NO BELL
6	JM1.25	1	PEPOXY	EPOXY KIT FOR CIP BASE
MH #02	60"-30" Polymer Manhole	19.03'	8,362	\$13,036
1	30" CITY OF CHANDLER SEWER A-1700 R&C	1	50303-GR	30 IN X 3 IN POLYMER GRADE RING
2	50304-GR	1	50530-C	60 IN X 3 FT ECC POLYMER CONE 30 IN
2	50572-S	1	50512-SNB	60 IN X 1 FT POLYMER MH SECTION NO BELL
6	JM1.25	1	PEPOXY	EPOXY KIT FOR CIP BASE
MH #02A	60"-30" Polymer Manhole	19.40'	9,013	\$13,385
1	30" CITY OF CHANDLER SEWER A-1700 R&C	1	50303-GR	30 IN X 3 IN POLYMER GRADE RING
1	50304-GR	1	50530-C	60 IN X 3 FT ECC POLYMER CONE 30 IN
1	50512-S	2	50572-S	60 IN X 6 FT POLYMER MH SECTION
1	50512-SNB	8	JM1.25	1.25 IN X 14 FT JOINT MASTIC ROLL
MH #03	60"-30" Polymer Manhole	19.48'	7,626	\$11,937
1	30" CITY OF CHANDLER SEWER A-1700 R&C	1	50303-GR	30 IN X 3 IN POLYMER GRADE RING
1	50530-C	1	50560-S	60 IN X 5 FT POLYMER MH SECTION
1	50572-S	1	50512-SNB	60 IN X 1 FT POLYMER MH SECTION NO BELL
6	JM1.25	1	PEPOXY	EPOXY KIT FOR CIP BASE
MH #04	60"-30" Polymer Manhole	16.50'	7,336	\$11,510
1	30" CITY OF CHANDLER SEWER A-1700 R&C	1	50302-GR	30 IN X 2 IN POLYMER GRADE RING
1	50303-GR	1	50530-C	60 IN X 3 FT ECC POLYMER CONE 30 IN
1	50548-S	1	50572-S	60 IN X 6 FT POLYMER MH SECTION
1	50512-SNB	6	JM1.25	1.25 IN X 14 FT JOINT MASTIC ROLL
1	PEPOXY			EPOXY KIT FOR CIP BASE



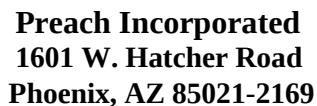
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For:

Ref: Chandler Heights Rd. Utility Relocations Alma Sch
Chandler, AZ

Quote Date: 4/1/2022

Structure	Description	Height	Weight	Price
MH #05	60"-30" Polymer Manhole	15.44'	5,681	\$9,286
1	30" CITY OF CHANDLER SEWER A-1700 R&C	2	50306-GR	30 IN X 6 IN POLYMER GRADE RING
1	50530-C	1	50572-S	60 IN X 6 FT POLYMER MH SECTION
1	50512-SNB	4	JM1.25	1.25 IN X 14 FT JOINT MASTIC ROLL
1	PEPOXY			EPOXY KIT FOR CIP BASE
MH #06	60"-30" Polymer Manhole	15.01'	5,324	\$8,928
1	30" CITY OF CHANDLER SEWER A-1700 R&C	1	50304-GR	30 IN X 4 IN POLYMER GRADE RING
1	50530-C	1	50572-S	60 IN X 6 FT POLYMER MH SECTION
1	50512-SNB	4	JM1.25	1.25 IN X 14 FT JOINT MASTIC ROLL
1	PEPOXY			EPOXY KIT FOR CIP BASE
Sub-Total				\$108,411
Freight/Delivery				\$6,800
Total Price for Chandler Heights Rd. Utility Relocations Alma Sch				\$115,211



PROPOSAL

Attention: Mark

Bid Date: 4/14/22

Address: Alma School & Chandler Heights, Chandler

Bid Item	Description	Quantity	Unit Price
	Labor / Materials To Pour 5'ID SS MH Base	8	\$2,400.00
	Apply Epoxy Coating To Base	8	\$1,800.00
	Insecta Coating	8	\$125.00
	\$150 Charge For Vac Testing & Insecta Coating less than 8 MH's Per Trip		

EXCLUDES: Excavation, backfill, shoring, barricades, final adjustments, concrete pump trucks for manholes beyond the normal reach, concrete collar around ring and cover, 3rd party inspection of all required testing, ground compaction, drop connections, cutting holes into side of MH to accept high pipes, breaking out pipes, all pipe work, placing stub outs, pipe supports, dewatering, waterstops, Davis Bacon wages, weekend / night work, taxes, bonds and permits. Supplying & setting of Armorock MH material & Frame & Covers. Vacuum Testing Of MH's. Cleaning out of MH bases, Hydro Vac & By Pass lines.

Office: (602) 242-2007 Fax: (602) 997-9644
ROC # 82366 & 118937

REDIMIX REDI MIX

Vendor Code							ARIZONAMATER	AGCCOMPOSITE	DESERETREDIM
Vendor Name							Arizona Material	AGC COMPOSIT	Desert Redi Mix
Vendor Phone							6022787777		4804282280
Bid	Activity	Resource	Desc	Quan	Unit	Plug Price	Unit Price	Unit Price	Unit Price
		2CRMAG1/2SK	1/2 SACK CLSM	7,060.00	CY	60.0000	92.0000	99.0000	101.2500
		2CRMAGA	MAG A CONCRETE	25.00	CY	0.0000	125.0000	131.0000	133.2500
		2CRMAGB	MAG B CONCRETE	211.62	CY	0.0000	122.0000	129.0000	129.2500
		2CRMAGC	MAG C CONCRETE	100.00	CY	78.0000	119.0000	126.0000	125.2500
		2CRMAGGROUT	GROUT	0.00	CY	160.0000	160.0000	160.0000 P	160.0000 P
		2CRSL2-4	SHORT LOAD CHARGE 2<4 C	26.00	EA	200.0000	200.0000	200.0000 P	0.0000
Quoted Amount							695,563	742,114	758,033
Plugged Amount							0	5,200	0
Bond							0	0	0
Mobilization							0	0	0
% Adjustment							0	0	0
\$ Adjustment							0	0	0
Total Adjustment							0	0	0
Totals						436,600	695,563	747,314	758,033
Diff From Plug							258,963	310,714	321,433
Total Minority							0	0	0

A 'P' beside a price indicates a plug price.

Green background indicates that the vendor is selected.



DESERT READY MIX

READY MIX CONCRETE SALES AND SERVICE

4011 PRESIDIO STREET

MESA, AZ 85215

OFFICE: 480-428-2280 FAX: 480-985-4248

Begin Date: March 25, 2022

Quote # : 15505

Expiration Date: **December 31, 2022**

MAP/GRID 184-21

Customer: **ACHEN GARDNER CONSTRUCTION, LLC**

Customer Code: ACHE001

Address:

CHANDLER, AZ 85226

Contact: MARK MCLAFFERTY (ESTIMATOR)

Phone: 480-940-1300

Fax:

Project: **CHANDLER HEIGHTS RD UTILITY RELOCATIONS**

Job Address: CHANDLER HEIGHTS RD ALMA-ARIZONA AVE

Terms Description: **2% 10TH NET 30**

"This quote does not guarantee product or service availability"

Item Code	Item Description	Est. Qty	Price
S500501	PHCLSM.5 (1/2 SACK SLURRY COP)	2375 Yards	\$98.00
SRP104	1/2 SACK MAG CLSM (SRP MIX)	Per Yard	\$98.00
A202001	MAG C 2000 PSI	31.5 Yards	\$122.00
A202501	MAG B 2500 PSI	191 Yards	\$126.00
TC	TEMPERATURE CONTROL	Per Yard	\$1.00

Additional Fees

Fee ID *	UOM	Price
E01	Per Yard	\$3.25

Minimum Load Fee

Less than or equal to	UOM	Price
2 Yards	Load	\$0.00
3.5 Yards	Load	\$0.00
5.5 Yards	Load	\$0.00

- Normal operating hours are Mon-Fri, Sat, Sun or Holidays are subject to surcharges.
- Color added at no expressed guarantee.
- Drivers do not except cash or make change.
- Desert Ready Mix reserves the right to increase prices due to RAW Material cost increases such as Cement, Fly Ash, Aggregates or unexpected Fuel increases.
- All specialized aggregates are based on availability.
- Deliveries less than 6 Cubic yards are subject to our minimum load charges.
- This quote does not guarantee product or service availability

Quoted By:

BRUCE A. TABET



PROJECT QUOTATION

Customer: Achen Gardner Construction, LLC
Mark McLafferty -
602-877-9329
mmclafferty@achen.com

Project Chandler Heights Rd Utility Relocations Package 3
Location Arizona Ave & Chandler Heights , Chandler , AZ

Quote # 3652 (21)
Quote Date 04/13/2022

CONCRETE

Est Quantity 2,900.00 CYDS

Qty	Description	Mix ID	Price
2500	1/2 Sack ABC Slurry (COP)	PHCLSM	\$86.00/CYD
100	MAG-AA 4000 PSI, 1" Rock	14004	\$125.00/CYD
100	MAG-A 3000 PSI	13004	\$119.00/CYD
100	MAG-B 2500 PSI 1" Rock	12504	\$116.00/CYD
100	2000 PSI MAG C	12004	\$113.00/CYD
	Chilled Water		\$1.00/Per Yard
	Environmental		\$25.00/Each
	Fuel Surcharges		\$35.00/Each
	Hot Water		\$1.00/Per Yard
	SHORTLOAD CHARGES		\$200.00/Each

Concrete Terms & Conditions

Arizona Materials accepts no responsibility for any damage to curb and beyond curb line. It will be Buyers responsibility to contact Arizona Materials Quality Control Department with any concrete issue/concerns within 48 hours after placement. Buyer is responsible to provide safe access to point of delivery. All materials are produced in conformance with ACI / ASTM standards. Mixes quoted below, unless otherwise stated, conform to no specific water cement ratio, minimum sack content, shrinkage, temperature requirement, or the plans and specifications of this project.

All colored concrete loads have a 3 yard minimum.

Arizona Materials cannot guarantee compressive strengths of 5000 PSI or below for loads less than 3 yards.

5000 PSI or above must be 5 yards or more to guarantee compressive strength.

Payment is due and payable on or before the 15th day of the month following to receive 2% discount. Account must be current in full to be eligible to apply discount. A service charge not to exceed the maximum allowed by law applies on unpaid invoice amounts beginning the 1st day of the month following due date and daily thereafter until paid in full. Should litigation be commenced to enforce payment, the prevailing party is entitled to reimbursement of reasonable attorney fees and court costs.

Buyer has 30 days to validate quote with P.O. , signing issued quote, or written verification.

Price quoted are applicable pending availability of materials and are subject to change prior to commitment.

Price Increases as follow:

Price Increase #1: Add **\$10.00/CYD** on 10/01/2022

Prepared & Submitted By:	ACCEPTANCE (void if not accepted before 05/13/2022)
Charity Medlock 6026200364 CMEDLOCK@AZMATL.COM Prepared On 04/13/2022	All prices expire on quoted expiration date: 12/31/2022 Signature: _____ Date: _____ Print Name/ Title: _____



Arizona Materials

Corporate Offices:

3636 S. 43rd Avenue

Phoenix, AZ 85009

Phone: 602-278-7777

Fax: 602-442-6905

www.arizonamaterials.net

Terms and Conditions of Sale

Additives

Hot / Chilled Water - \$1.00 per cubic yard

Nitrogen Cooling - \$9.50 per cubic yard

Non-Chloride Accelerator - \$1.50 per unit

Recover - \$2.00 per 1/2 Hour

Fiber

Micro Fiber - \$7.50 per pound

Macro Fiber (Structural) - Priced as Quoted

Color

Standard Liquid Color - See mix detail for per yard pricing

Color Washout - \$25.00 per load

Delivery

Fuel Surcharge - \$35.00 per load

Wash Out System Buckets - \$25.00 per load (requested at time of order)

Standby Charges - \$1.50 per minute beyond 6 minutes per cubic yard

Short Load Charges - 6 yards or less \$200.00 per load

Environmental Fee - \$25.00 per load

Weekend Delivery - \$50.00 per load

Plant Opening Charge - \$500.00/hr, 4 hour minimum

Sunday / Holiday Opening - \$750.00/hr, 4 hour minimum

All order backs/split loads under 11 yds on one order are subject to Short Load Charges.

Concrete Pricing subject to change based on market conditions

All materials are produced in conformance with ACI / ASTM Standards.

Contractor is responsible to provide safe access to the point of delivery.

Arizona Materials accepts no responsibility for damages to any curb and beyond the curb line.

It is Contractors responsibility to contact Arizona Materials Quality Control Department with any concrete issues/concerns no later than 48 Hours after placement.

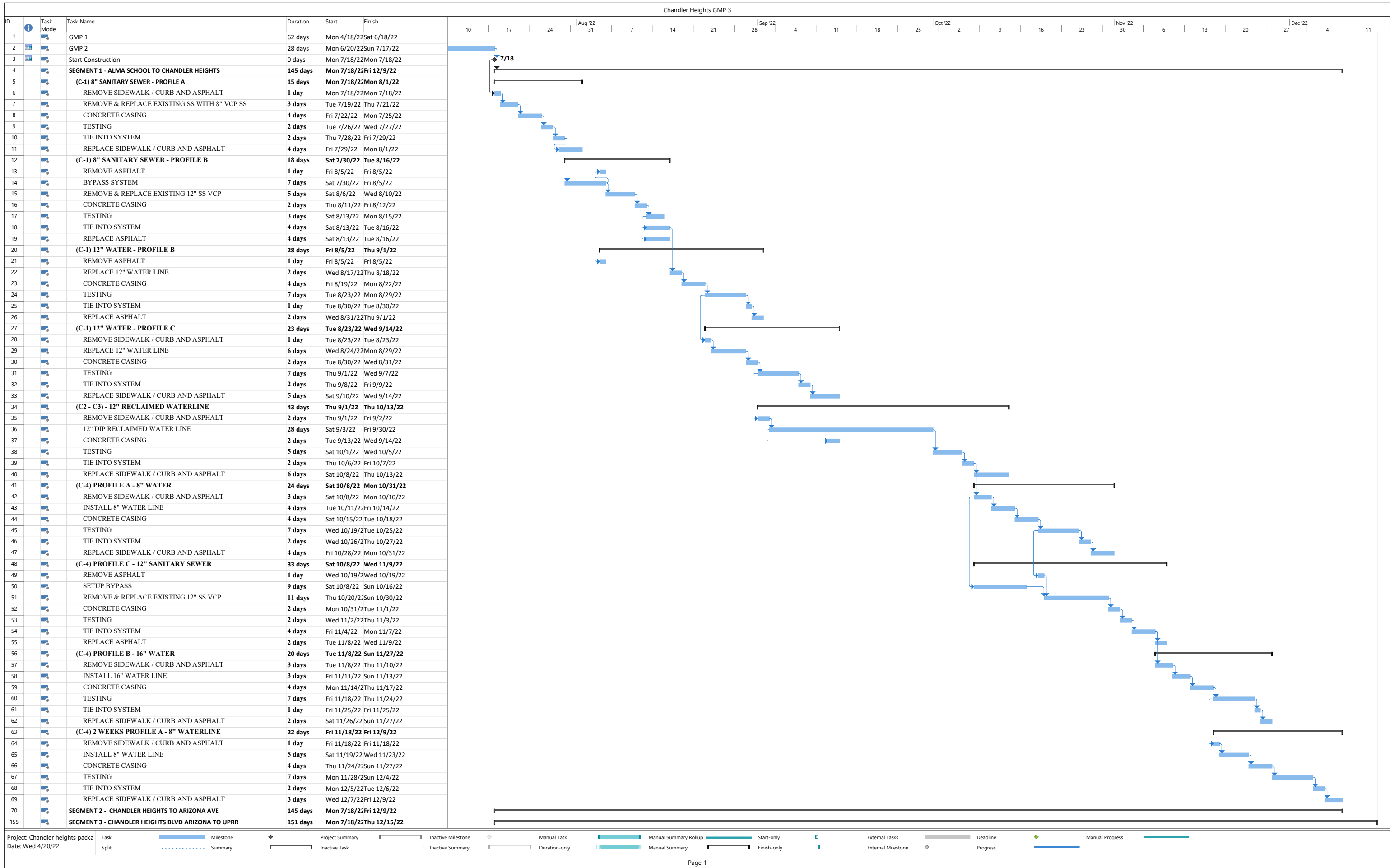
EXHIBIT D7: BASELINE PROJECT SCHEDULE

MAY 20, 2022

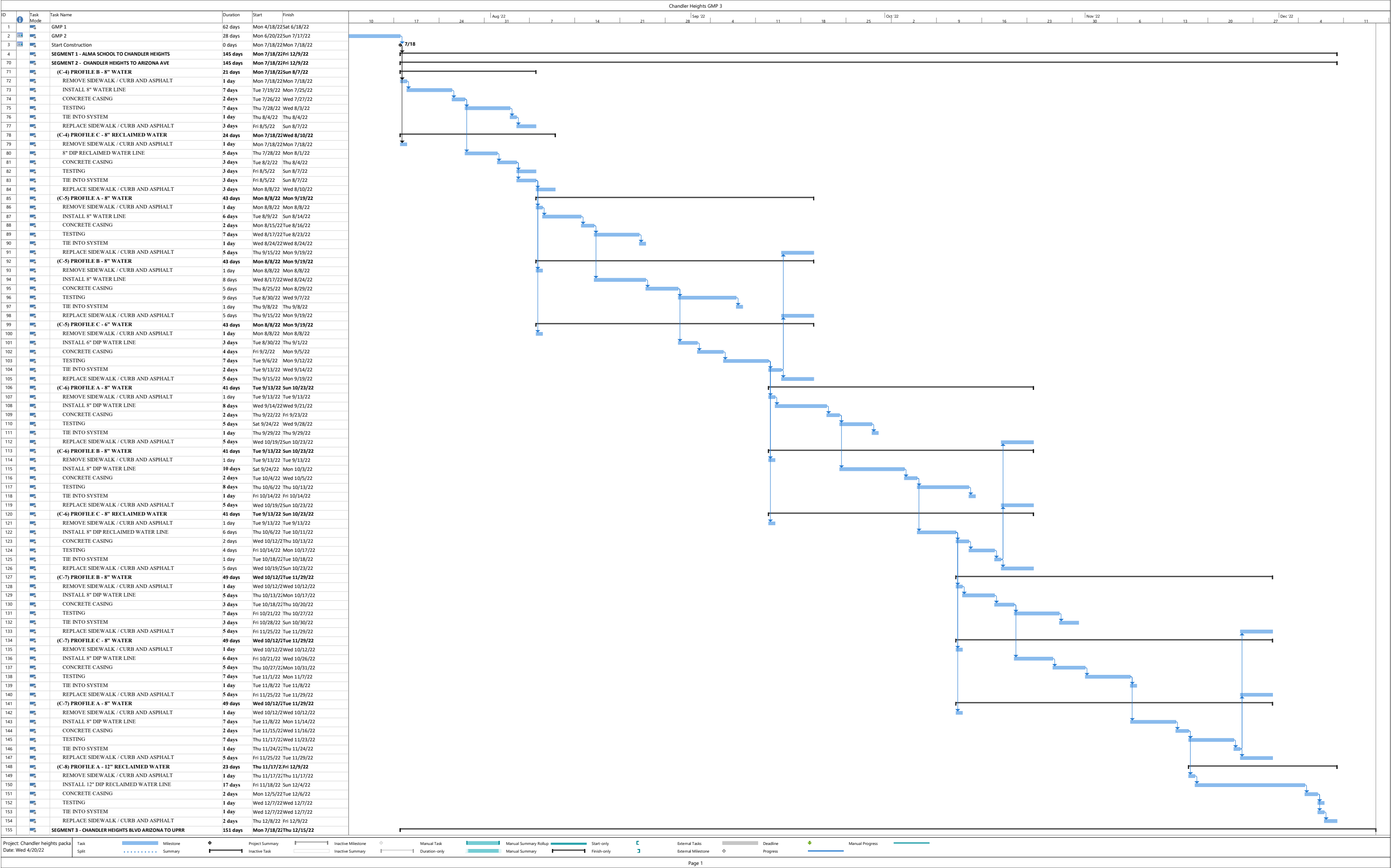
**CITY OF CHANDLER – CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
GMP PROPOSAL FOR ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD
PROJECT NO: WW2111.401**

See Following Baseline Project Schedule

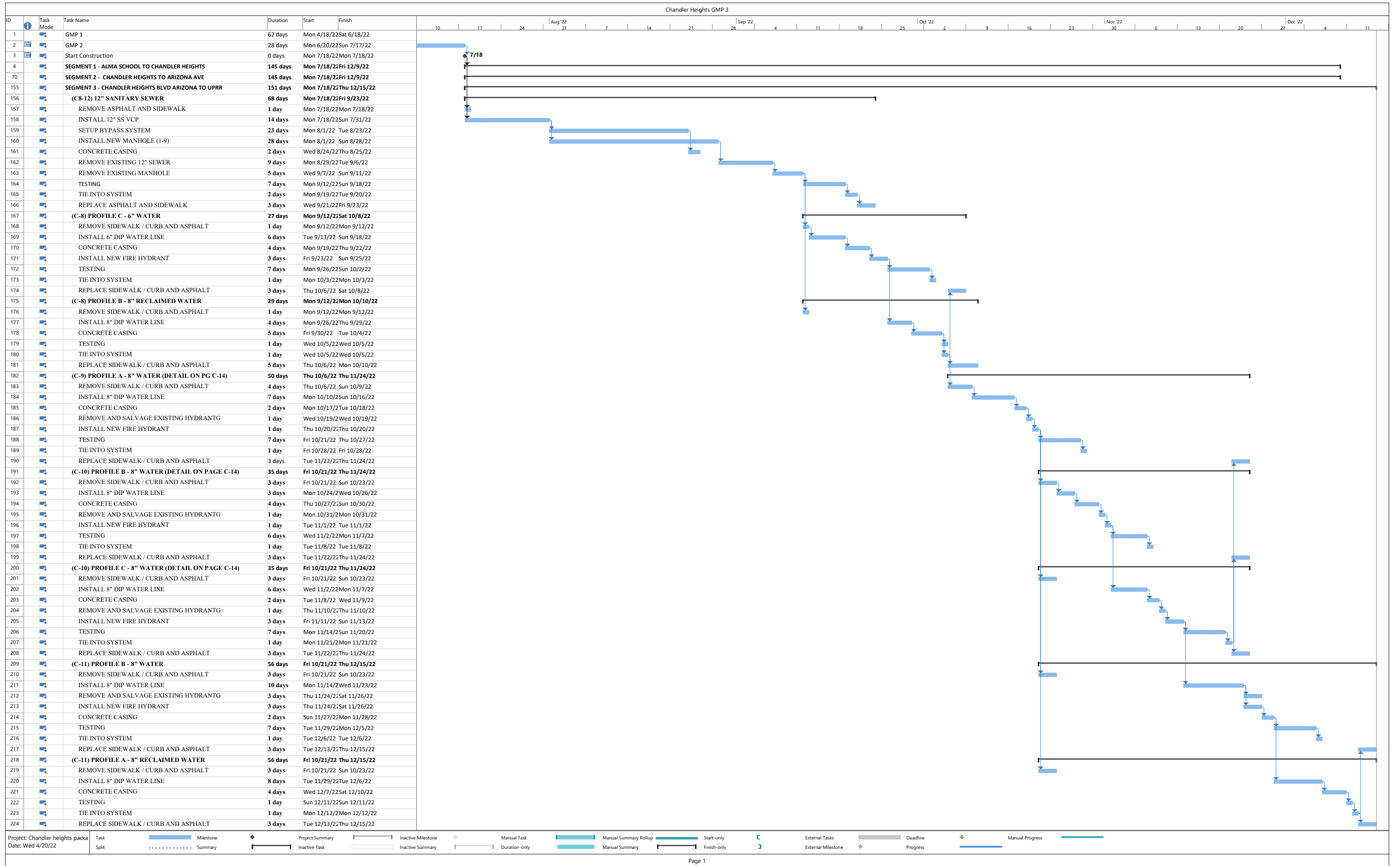
Segment 1



Segment 2



Segment 3





CITY OF CHANDLER

PUBLIC WORKS AND UTILITIES DEPARTMENT

CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD

PROJECT NO. WW2111.401

FOR CONSTRUCTION

TECHNICAL SPECIFICATIONS

MAY 2022

**MAYOR
KEVIN HARTKE**

**VICE MAYOR
TERRY ROE**

CITY COUNCIL

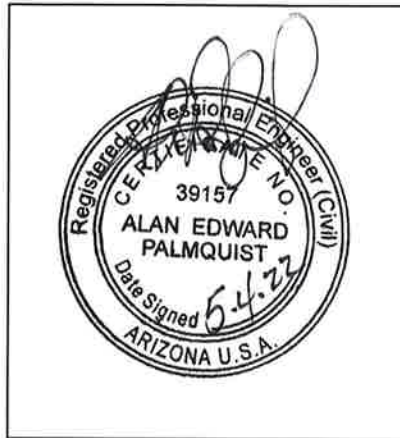
**Council Member Christine Ellis
Council Member OD Harris
Council Member Matt Orlando**

**Council Member Rene Lopez
Council Member Mark Stewart**

**CITY MANAGER
JOSHUA WRIGHT**

**PUBLIC WORKS & UTILITIES DIRECTOR
JOHN KNUDSON, PE**

TABLE OF CONTENTS
TECHNICAL SPECIFICATIONS
FOR
CITY OF CHANDLER
CHANDLER HEIGHTS ROAD UTILITY RELOCATIONS
ALMA SCHOOL ROAD AND CHANDLER HEIGHTS ROAD



DIVISION 1 GENERAL REQUIREMENTS

01010	SUMMARY OF WORK
01050	FIELD ENGINEERING/SURVEYING
01090	REFERENCE STANDARDS/ABBREVIATIONS
01143	COORDINATION WITH OWNER'S OPERATIONS
01300	SUBMITTALS
01710	CLEANING

DIVISION 2 SITE WORK

02100	SITE PREPARATION
02145	DIVERSION OF SEWAGE FLOW AND DEWATERING

DIVISION 11 EQUIPMENT

11295	HYDRAULIC VALVES
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DIVISION 15 MECHANICAL

15050	PIPING SYSTEMS
15051	BURIED PIPING INSTALLATION
15061	DUCTILE IRON PIPE
15064	COPPER PIPE
15067	VCP PIPE
15120	PIPING SPECIALTIES AND ACCESSORIES

++ END OF TABLE OF CONTENTS ++

SECTION 01010

SUMMARY OF WORK

PART 1 - GENERAL

1.1 SUMMARY

- A. The work covered under this Contract will be performed within the City of Chandler in the following general locations:
1. Alma School Road and Chandler Heights Road

1.2 DESCRIPTION OF OWNER'S PROJECT

- A. The overall scope project will consist of the following installation:
1. Relocation of approximately 95 linear feet of 8-inch sewer line.
 2. Relocation of approximately 1,590 linear feet of 12-inch sewer line.
 3. Relocation of approximately 425 linear feet of 8-inch reclaimed water line.
 4. Relocation of approximately 790 linear feet of 12-inch reclaimed water line.
 5. Relocation of approximately 210 linear feet of 6-inch potable water line.
 6. Relocation of approximately 1,410 linear feet of 8-inch potable water line.
 7. Relocation of approximately 90 linear feet of 12-inch potable water line.
 8. Relocation of approximately 190 linear feet of 16-inch potable water line.
 9. Removal of seven (7) sanitary manholes.
 10. Installation of ten (10) new sanitary manholes.
 11. Removal and replacement of two (2) sanitary manholes.
 12. Complete all testing and disinfection on new and relocated potable waterlines prior to connecting to existing potable water distribution system. Contractor to coordinate and plan construction activities with existing operational needs of the City.
 13. Complete all testing on new and relocated reclaimed waterlines prior to connecting to existing reclaimed water distribution system. Contractor to coordinate and plan construction activities with existing operational needs of the City.
 14. Complete all testing on new sewer lines and manholes prior to connecting to existing sewer system. Contractor to coordinate and plan construction activities with existing operational needs of the City.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

++ END OF SECTION ++

SECTION 01050

FIELD ENGINEERING/SURVEYING

PART 1 - GENERAL

1.1 SUMMARY

- A. The CONTRACTOR shall hire a surveyor licensed in the State of Arizona to perform all surveying responsibilities. It is also the CONTRACTOR'S responsibility to notify the ENGINEER, in writing, of any discrepancy found between the topographic survey provided and the baseline conditions provided in the Contract Documents within 14 days of the Notice to Proceed. The CONTRACTOR further takes the responsibility to correct any discrepancies not reported to the ENGINEER within the specified construction schedule as part of the finished grading required as part of this Project at no cost to the OWNER.
- B. The CONTRACTOR shall provide competent, qualified personnel and materials required to perform all construction layout staking and re-staking (as necessary) of the Work and will protect and preserve the established reference points and will make no change or relocations without the prior written approval of the OWNER.
- C. The CONTRACTOR will report to the OWNER whenever any reference point is lost or destroyed or requires relocation because of necessary changes in grades or locations. The CONTRACTOR will replace and accurately relocate all reference points so lost, destroyed, or moved at no additional cost to the OWNER.
- D. Field surveying shall include GIS location and data of all new construction and abandoned utilities as required by the City of Chandler. The CONTRACTOR shall provide the GIS location and data at each application of payment to verify content. If data is missing or does not meet City of Chandler requirements, portions of the new construction shall be exposed to obtain the data at no additional cost to the OWNER. The City of Chandler requirements are identified below:
 - 1. Contractor shall 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:
 - 1) All GPS point data, along with corresponding GIS Attribute data, must be submitted in ESRI File Geodatabase format.
 - 2) The City of Chandler will provide a copy of the File Geodatabase in ESRI ArcGIS format, upon submitting a data request form attached

herewith. Please submit the data request form to
Kristy.Noelson@Chandleraz.gov

- b. Data dictionary and Attribute data:
 - 1) 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 will be made available to the CONTRACTOR.
- c. Coordinate System:
 - 1) Horizontal Datum: Arizona State Plane Coordinates, Central Zone NAD83 (HARN) Vertical Datum: NAVD88
- d. Point Data for GPS:
 - 1) Potable Water and Reclaimed Water System Features:
 - a) Water main location (top of pipe), size and material (one (1) coordinate provided every 100 feet minimum) and at fittings.
 - b) 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.
 - c) Water valve location (center of valve box cover), size and type.
 - d) Fire hydrant location (top of hydrant), manufacturer and year.
 - e) 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.
 - f) Water blow-off and air release valve location (center of cover), size, type and manufacturer.
 - g) Water manhole or vault location (center of cover), size and type.
 - 2) Waste Water System features:
 - a) Sewer manhole and cleanout location (center of cover), size, material, and cover type.
 - b) Sewer gravity main location (invert of pipe), size, material and flow direction (from) at all manholes, cleanouts and structures.
 - c) 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).
 - d) Sewer force main location (top of pipe), size, and material (one (1) coordinate provided every 100 feet minimum) and at fittings.
 - e) 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
 - f) Sewer force main valve location (center of valve box cover), size and type.

- g) Sewer force main air release valve location (center of cover), size, type and manufacturer.
 - h) Sewer force main manhole or vault location (center of cover), size and material.
 - i) Sewer structure (center of structure), type (diversion, junction box)
 - 3) Standard GPS Metadata on all points collected: Date, Time, Height, Horiz_Precision, Vert_Precision, Northing, Easting, Surveyor, Datafile, and Comments
- 2. Refer to the included information, following this specification, from the City of Chandler. Contractor shall meet all requirements.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

++ END OF SECTION ++

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

SECTION 01090

REFERENCE STANDARDS/ABBREVIATIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section lists many of the construction industry organizations, professional and technical associations, societies and institutes, and government agencies issuing, promoting, or enforcing standards to which references may be made in the Contract Document, along with the abbreviations commonly used for those references. Also included are certain general requirements for the use of industry standards specified and for application of the standards in quality control.

1.2 USE OF REFERENCE STANDARDS

- A. Work specified by reference to the published standard or specification of a government agency, technical association, trade association, professional society or institute, testing agency, or other organization shall conform to, or surpass the minimum standards of quality for materials and workmanship established by the designated standard or specification.
- B. Where so specified, products or workmanship shall also conform to the additional prescriptive or performance requirements included within the Contract Documents to establish a higher or more stringent standard of quality than that required by the referenced standard.
- C. Where the specific date or issue of the standard is not included with the reference to the standard, the edition, including all amendments published and available on the first published date of the Invitation to Bid, shall apply.
- D. Where two or more standards are specified to establish quality, the product, and workmanship shall conform to or surpass the requirements of both.
- E. In case of conflict between referenced standards, the more stringent shall apply.
- F. Where both a standard and a brand name are specified for a product in the Contract Document, the proprietary product named shall conform to or surpass the requirements of the specified reference standard. The listing of a trade name in a Contract Document shall not be construed a warranting that such product conforms to the respective reference standard.
- G. Copies of Standards:
 - 1. Copies of applicable referenced standards have not been bound in this Contract Document.

2. Where copies of standards are needed by the CONTRACTOR for superintendence and quality control of the Work, obtain a copy or copies directly from the publication source and maintain in an orderly manner at the job site, available to the CONTRACTOR'S personnel, subcontractors, OWNER, and ENGINEER.
3. Submittals: Submit for approval the requests to use products conforming to printed standards or publications with a different publication date from that effective under the Contract. Clearly indicate the changes in product or workmanship quality involved in the proposed change, if any, and reasons for the request.

1.3 ABBREVIATIONS

- A. Abbreviations for trade organizations and government agencies. The following is a list of construction industry organizations and government agencies to which references may be made in the Contract Document, with abbreviations used.

AA	Aluminum Association
AAMA	American Architectural Manufacturers Association
AAMA	Architectural Aluminum Manufacturers' Association
AASHTO	American Association of State Highway and Transportation Officials
ABPA	Acoustical and Board Products Association
ACI	American Concrete Institute
ADA	Americans With Disabilities Act
ADEQ	Arizona Department of Environmental Quality
ADHS	Arizona Department of Health Services
AFBMA	Anti-Friction Bearing Manufacturers' Association
AGA	American Gas Association
AGC	Associated General Contractors
AGMA	American Gear Manufacturers' Association
AHC	Architectural Hardware Consultant
AI	Asphalt Institute
AIA	American Institute of Architects
AIA	American Insurance Association
AIEE	American Institute of Electrical Engineers
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ALS	American Lumber Standards
AMCA	Air Moving and Conditioning Association
AMG	Arizona Masonry Guild
ANSI	American National Standards Institute
APA	American Plywood Association
API	American Petroleum Institute
AREA	American Railway Engineering Association
ARI	Air Conditioning and Refrigeration Institute

ARMA	Asphalt Roofing Manufacturers Association
ASAE	American Society of Agricultural Engineers
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating, and Air Conditioning Engineers, Inc.
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWI	Architectural Woodwork Institute
AWPA	American Wood Preservers' Association
AWPB	American Wood Preservers Bureau
AWPI	American Wood Preservers' Institute
AWS	American Welding Society
AWSC	American Welding Society Code
AWI	Architectural Woodwork Institute
AWWA	American Water Works Association
BHMA	Builders Hardware Manufacturers' Association
BIA	Brick Institute of America
CBMA	Certified Ballast Manufacturers' Association
CDA	Copper Development Association
CGA	Compressed Gas Association
CISPI	Cast Iron Soil Pipe Institute
CLFMI	Chain Link Fence Manufacturer's Institute
CMAA	Crane Manufacturers' Association of America
CRA	California Redwood Association
CRSI	Concrete Reinforcing Steel Institute
CS	Commercial Standards
CSI	Construction Specifications Institute
CTI	Cooling Tower Institute
FGMA	Flat Glass Manufacturer's Association
FIA	Factory Insurance Association
FM	Factory Mutual
FS	Federal Specification
FTI	Facing Tile Institute
GA	Gypsum Association
HI	Hydraulic Institute
HMI	Hoist Manufacturers' Institute
ICBO	International Conference of Building Officials
ICEA	Insulated Cable Engineers' Association
IEEE	Institute of Electrical and Electronics Engineers, Inc.
IES	Illuminating Engineering Society

ISA	Instrument Society of America
JIC	Joint Industry Conferences of Hydraulic Manufacturers
LIA	Lead Industries Association
MAG	Maricopa Association of Governments
MIA	Marble Institute of America
MIA	Masonry Institute of America
MLMA	Metal Lath Manufacturers Association
MS	Military Specifications
MMA	Monorail Manufacturers' Association
NAAMM	National Association of Architectural Metal Manufacturers
NBFU	National Board of Fire Underwriters
NBHA	National Builders' Hardware Association
NBS	National Bureau of Standards
NCMA	National Concrete Masonry Association
NEC	National Electrical Code
NEMA	National Electrical Manufacturers' Association
NESC	National Electric Safety Code
NFPA	National Fire Protection Association
NFPA	National Forest Products Association
NGA	National Glass Association
NHLA	National Hardwood Lumber Association
NKCA	National Kitchen Cabinet Association
NLMA	National Lumber Manufacturers' Association
NMWIA	National Mineral Wool Insulation Association
NSF	National Sanitation Foundation
NTMA	National Terrazzo and Mosaic Association
NWMA	National Woodwork Manufacturers' Association
OECI	Overhead Electrical Crane Institute
OSHA	Occupational Safety and Health Administration (both Federal and State)
PCA	Portland Cement Association
PCI	Pre-cast Concrete Institute
PDI	Plumbing Drainage Institute
PEI	Porcelain Enamel Institute
PS	Product Standards Section - U.S. Department of Commerce
RLM	RLM Standards Institute, Inc.
RMA	Rubber Manufacturers' Association
SAE	Society of Automotive Engineers

SDI	Steel Deck Institute
SDI	Steel Door Institute
SIGMA	Sealed Insulating Glass Manufacturing Association
SJI	Steel Joist Institute
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SSPC	Steel Structures Painting Council
SWI	Steel Window Institute
TEMA	Tubular Exchanger Manufacturers' Association
TCA	Tile Council of America
TIMA	Thermal Insulation Manufacturers Association
TPI	Truss Plate Institute
UBC	Uniform Building Code
UFC	Uniform Fire Code
UL	Underwriters' Laboratories, Inc.
USDA	United States Department of Agriculture
USPS	United States Postal Service
VI	Vermiculite Institute
WCLA	West Coast Lumberman's Association
WCLB	West Coast Lumber Bureau
WCLIB	West Coast Lumber Inspection Bureau
WIA	Woodwork Institute of Arizona
WPOA	Western Plumbing Officials Association
WWPA	Western Wood Products Association

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

++ END OF SECTION ++

SECTION 01143

COORDINATION WITH OWNER'S OPERATIONS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The intent of this Section is to provide CONTRACTOR a sequence to perform the Work in such a manner that continuous, uninterrupted access to the businesses and property owners is maintained operational throughout the construction period.
- B. Except for the construction hours specified in this Section, CONTRACTOR'S means and methods shall be implemented such that the traffic lanes shall remain in continuous satisfactory operation during the entire construction period. Work shall be so scheduled and conducted by CONTRACTOR such that it shall not impede any hindrances to the public and businesses. In performing the Work shown and specified, CONTRACTOR shall plan and schedule the Work to meet both the constraints outlined in this Section and the latest City of Chandler Traffic Barricade Design Technical Design Manual.
- C. Work not specifically covered in Section 01010, Summary of Work, or in the following paragraphs may, in general, subject to the operating requirements outlined in this Section.

1.2 OVERTIME

- A. All overtime work by CONTRACTOR necessary to conform to the requirements of this Section shall be performed by CONTRACTOR at no additional cost to the OWNER and shall be performed in accordance with the General Conditions. CONTRACTOR shall make no claims for extra compensation as a result thereof.
- B. PRODUCTS (NOT USED)

PART 2 - EXECUTION

2.1 COORDINATION DESCRIPTION

- A. All traffic control plans shall be in accordance with the latest City of Chandler Traffic Barricade Design Technical Manual and shall be approved by the City Traffic Inspector prior to any construction.
- B. Potable and Reclaimed Water Piping Tie-In:
 - 1. The CONTRACTOR shall prepare a plan with scheduling, means and methods, disinfection, and the proposed connections at each tie-in. The tie-in

plans shall be approved by the OWNER 30 days prior to starting the first water lateral tie-in.

2. Prior to any tie-in, CONTRACTOR shall coordinate with OWNER or ENGINEER to schedule valve closure.
 3. Work may occur at night or during the weekend to ensure minimal disruption to businesses.
- C. Sewer Piping Tie-In:
1. CONTRACTOR shall coordinate all sewer bypass pumping operations with the City of Chandler per Section 02145, Diversion of Sewage Flow and Dewatering. The CONTRACTOR shall notify the OWNER 72 hours prior to bypassing the pipeline.

++ END OF SECTION ++

SECTION 01300

SUBMITTALS

PART 1 - GENERAL

1.1 SUMMARY

- A. The CONTRACTOR shall include a completed transmittal form for all submittals. Transmittal forms will be furnished to CONTRACTOR by CONSTRUCTION MANAGER. Submittals shall be sent to the CONSTRUCTION MANAGER.

1.2 SECTION INCLUDES

- A. Shop Drawings.
- B. Testing results.
- C. Construction photographs.
- D. Record Drawings.

1.3 SHOP DRAWINGS

- A. The CONTRACTOR shall submit Shop Drawings for the equipment and materials specified herein to CONSTRUCTION MANAGER.
- B. CONSTRUCTION MANAGER shall return electronic Shop Drawings to CONTRACTOR within three (3) weeks of receipt by CONSTRUCTION MANAGER per General Conditions Section 4.7.3.10.
- C. The CONTRACTOR may request submittals be reviewed up to two times for each equipment or construction material item, regardless of manufacturer or supplier, by the CONSTRUCTION MANAGER.
- D. Each Shop Drawing submittal shall include an electronic copy of the relevant Specification Section. Each and every paragraph of the Specification Section shall be clearly marked to indicate whether the requirements for equipment and/or services in the Specification Section are met. If clarifications are needed to any of the paragraphs in the Specification Section, they shall be addressed next to the paragraph or in an attached letter as such and explained further with any additional information necessary. If any exceptions and/or deviations are proposed to any of the Specifications, they shall be clearly noted as such in the submittal, and an explanation of any deviation and/or exception shall be provided. The

CONTRACTOR shall furnish equipment and/or services as specified if an exception and/or deviation is rejected.

- E. The CONTRACTOR will be held responsible for any delay in progress of the Work due to resubmittal of Shop Drawings. Time for completion of the Contract will not be extended due to CONTRACTOR's failure to promptly submit complete and acceptable Shop Drawings, product data and samples.
- F. Do not execute Work required by Shop Drawings until accepted Shop Drawings are received from CONSTRUCTION MANAGER.
- G. Before submitting Shop Drawings for review, CONTRACTOR shall check Shop Drawings for accuracy, ascertain that all Work contiguous with and having bearing on other Work shown on Shop Drawings is accurately drawn, and that Work shown is in conformity with Contract requirements. The CONTRACTOR is responsible for all submittals from subcontractors and suppliers.
- H. All such Drawings and details, when submitted, must bear the stamp of approval of CONTRACTOR, bearing checked data, as evidence that such Drawings and details have been checked by the CONTRACTOR. Said "stamp" shall clearly state that the CONTRACTOR has checked the Drawings by providing signature certification. Any Drawings submitted without such executed stamp of approval, or whenever it is evident (despite the stamp) that the Drawings have not been checked, they will be returned to the CONTRACTOR for resubmission and will not be considered. In such event, it will be deemed that CONTRACTOR has not complied with this provision and the CONTRACTOR shall bear risk of all delays to the same extent as if no Drawings or details had been submitted.
- I. The CONTRACTOR shall prepare composite Drawings and installation layouts, when required to solve tight field conditions. Such Drawings shall consist of dimensioned plans and elevations, and must give complete information particularly as to size and location of sleeves, inserts, attachments, openings, conduits, ducts, boxes, structural interferences, etc. These composite drawings and installation layouts shall be coordinated in the field by the CONTRACTOR and his subcontractors for proper relationship to the Work of other trades, based on field conditions, and shall be checked and approved by them before submission to the CONSTRUCTION MANAGER for his final review. The CONTRACTOR shall have competent technical personnel readily available for such coordinating and checking, as well as for supervision of field installation of Work as per the Drawings and installation layouts, which have been previously determined by him to be correct and carry the CONSTRUCTION MANAGER's review stamp.
- J. Submission of Shop Drawings (in either original submission or when resubmitted with corrections) constitute evidence that the CONTRACTOR has checked all information thereon, and that he accepts and is willing to perform the Work as shown in a workmanlike manner and in accordance with best standard practice.

- K. Cost of any changes in construction due to improper checking and coordination by the CONTRACTOR shall be paid for by the CONTRACTOR, and the CONTRACTOR shall be responsible for all additional costs, including coordination.
- L. Each Drawing or page must include all information as required by General Condition Section 4.7.3.4.
- M. The CONSTRUCTION MANAGER shall provide the CONTRACTOR with a form to accompany the Shop Drawings.
- N. If Shop Drawings show variations from Contract Documents because of standard shop practice or other reasons, make specific mention of such variations in the transmittal form.
- O. Shop Drawings review will be general. It shall not relieve the CONTRACTOR of responsibility for accuracy of such Shop Drawings, nor proper fitting, construction of Work, furnishing of materials, or Work required by Contract Documents and not indicated on Shop Drawings. Shop Drawings review shall not be construed as approving departures from Contract Documents.
- P. Review of Shop Drawings and schedules shall not relieve the CONTRACTOR from responsibility for any violation indicated on such Drawings or schedules of local, County, State, or Federal laws, rules, ordinances, or rules and regulations of commissions, boards or other authorities or utilities having jurisdiction.
- Q. When product data, consisting of manufacturer's printed literature, is required to be submitted to CONSTRUCTION MANAGER, it shall be submitted in original form. Any fading type of reproduction will not be accepted.

1.4 CONSTRUCTION PHOTOGRAPHS

- A. Per City of Chandler Contract Requirements.

1.5 TESTING RESULTS

- A. CONTRACTOR shall furnish to CONSTRUCTION MANAGER copies of all testing results for all tests as required in the General Condition Section 4.7.

1.6 RECORD DRAWINGS

- A. CONTRACTOR shall update Record Drawings as required by General Conditions Section 4.8.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

++ END OF SECTION ++

SECTION 01710

CLEANING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section outlines requirements for cleaning of the Project Work. This Section is complementary to the General Conditions and nothing herein shall be considered to waive any requirements of the General Conditions.

1.2 REQUIREMENTS OF REGULATORY AGENCIES

- A. Safety and Insurance Standards: Maintain Project in accordance with the following safety and insurance standards:
 - 1. State Industrial Commission of Arizona (OSHA).
- B. Fire Protection: Store volatile waste in covered metal containers and remove from premises daily.
- C. Pollution Control: Conduct cleanup and disposal operations to comply with local ordinances and anti-pollution laws. Burning or burying of rubbish and waste material on the Project site is not permitted. Disposal of volatile fluid waste (such as mineral spirits, oil, or paint thinner) in storm or sanitary sewer systems or into streams or waterways is not permitted.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 DURING CONSTRUCTION

- A. During the construction period, the material to be used in the Work shall be kept in an orderly manner, neatly stacked or piled.
- B. Clean up frequently (at least weekly) all refuse, rubbish, scrap materials, and debris caused by operations, to the end that at all times the site of the Work shall present a neat, orderly, and workmanlike appearance. Sprinkle dusty debris with water.
- C. Provide for the disposal of all waste products, trash, debris, etc., and make necessary arrangement for legal disposal of same off the site. Never throw

rubbish from windows or other parts of building. Lower waste materials in a controlled manner with as few handling as possible.

- D. Remove all surplus material, false-work, temporary structures, including foundations thereof, plant of any description and debris of every nature resulting from operations and put the site in a neat, orderly condition.
- E. Remove carpentry nails, pieces of rebar, pieces of cut metal, metal strapping, and pieces of wood. Wire (bare or insulated), shall also be recovered from the ground at the end of each day.
- F. General contractor shall provide trash gondolas or containers for use by all trades.

3.2 FINAL CLEANING

- A. Use experienced workmen or professional cleaners for final cleaning. Provide adequate ventilation during use of volatile or noxious substances.
- B. All existing improvements, inside or outside the property that are disturbed, damaged, or destroyed by the Work under the Contract, shall be restored to the condition in which they originally were, or to the satisfaction of the OWNER.
- C. CONTRACTOR shall clean all sidewalks by power washing to remove tire trend marks.

++ END OF SECTION ++

SECTION 02100
SITE PREPARATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Prepare the construction site for new construction.

1.2 SECTION INCLUDES

- A. Protection of certain existing trees and vegetation.
- B. Clearing and grubbing.
- C. Removing below grade improvements (including stumps).
- D. Installing and maintaining barricades and warning signs.
- E. All other miscellaneous items of Work required to complete the site preparation.

1.3 PROJECT CONDITIONS

- A. Traffic: Conduct site-clearing operations to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Do not close or obstruct streets, walks, or other occupied or used facilities without permission from authorities having jurisdiction.
- B. Protection of Existing Improvements: Provide protection as necessary to prevent damage to existing improvements indicated to remain in place.
 - 1. Protect improvements on adjoining properties and OWNER'S property.
 - 2. Restore damaged improvements to their original or better condition, as acceptable to OWNER.
- C. Protection of Existing Trees and Vegetation:
 - 1. Existing vegetation in the field not scheduled for removal shall be undisturbed by the CONTRACTOR. The CONTRACTOR shall NOT remove from the site any plants unless specifically approved by the CONSTRUCTION MANAGER.
 - 2. Protect existing trees and vegetation indicated to remain against unnecessary cutting, breaking or skinning of roots, skinning or bruising of bark, smothering of trees by stockpiling construction materials or excavated materials within drip line, excess foot or vehicular traffic or parking of vehicles within the drip line. Prior to initiating site clearing activities, the

CONTRACTOR shall mark the limits of the disturbance areas either by placing lime, flags, or survey stakes at the limits shown on the Plans.

3. Do not destroy vegetation which may be naturally located in the periphery of proposed disturbed areas (within a zone $\pm$ 5 feet from the limits of construction). The CONSTRUCTION MANAGER shall be notified if existing plants are located within the fringes of the construction limits. The CONSTRUCTION MANAGER shall issue instructions at that time.
 4. Adjustments may be made in the limits of construction to protect the affected plants based on a field review of the staked limits. The adjusted construction limits shall be considered the permanent construction limits for the duration of the Project. If the CONSTRUCTION MANAGER recommends that construction limits be adjusted to preserve existing plants, the CONTRACTOR, at his own option, may elect to clear the subject vegetation and revegetate with like-kind size and species as required herein and by Landscape Drawings at no additional cost to the OWNER. The CONTRACTOR shall be entirely responsible for removal, storage, and replanting of such vegetation in accordance with City's Landscape Design of Right-of-Way, medians, and retention basin Technical Design Manual no. 8.
 5. During the course of the Work the CONTRACTOR shall:
 - a. Water trees, shrubs, and other vegetation to remain within limits of Contract Work as required to maintain their health during the course of construction operations at no additional cost to the OWNER.
 - b. Provide protection for roots over 1-1/2-inches in diameter that are cut during construction operations. Temporarily cover exposed roots with wet burlap to prevent the roots from drying out; cover with earth as soon as possible.
 - c. Repair or replace trees and vegetation indicated to remain that are damaged by construction operations in a manner acceptable to the CONSTRUCTION MANAGER.
 - d. Trees to be protected in place shall not be pruned unless limbs are damaged, or at the direction of the CONSTRUCTION MANAGER. Employ a licensed arborist to repair damaged trees and shrubs. Replace trees that cannot be repaired and restored to full growth status, as determined by the arborist.
 - e. Trees may be pruned for routing maintenance during construction with CONSTRUCTION MANAGER'S approval at no additional cost to the OWNER.
- D. Provide a temporary construction fence/barrier to protect trees and vegetation at the limits reviewed and approved by the CONSTRUCTION MANAGER. The barrier shall be installed and remain in place for the duration of the Project or as directed by the CONSTRUCTION MANAGER.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Fencing: Any fencing removed as obstructions shall be restored to match existing with property OWNER's approval/acceptance.
- B. Barricades, warning signs, and related equipment shall be placed as required.
- C. Tree Protection Fence/Barrier: Shall be a commercially available product acceptable to the CONSTRUCTION MANAGER for its intended purpose. The barrier shall be similar to a nylon woven material or woven wire fence such as TENAX Nordic Snow Fence, or approved equal, with approved stakes approximately 36-inches in height. Submit material sample and Shop Drawings for barrier installation to the CONSTRUCTION MANAGER for approval prior to use.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Site Clearing
 - 1. General: Remove trees, shrubs, grass and other vegetation, improvements or obstructions, as required, to permit installation of new construction. Remove similar items elsewhere on site or premises as specifically indicated. Removal includes digging out and off-site disposal of stumps and roots.
 - a. Cut minor roots and branches of trees indicated to remain in a clean and careful manner where such roots and branches obstruct installation of new construction.
 - 2. Clearing and Grubbing: Within the limits of Work, clear site of trees, shrubs and other material, except for those indicated to be left standing.
 - a. Completely remove stumps, roots, and other debris protruding through the ground surface. Stump removal and backfilling of holes is required for trees indicated on the Plans to be removed.
 - b. Use only hand methods for grubbing inside drip line of trees indicated to remain.
 - c. Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated.
 - d. Place fill material in horizontal layers not exceeding 6-inches loose depth, and thoroughly compact each layer to a density equal to adjacent original ground.
 - 3. Disposal of Waste Material:
 - a. Burning on OWNER'S Property: Burning is not permitted on OWNER'S property.
 - b. Removal from OWNER'S Property: Remove waste materials from OWNER'S property at no additional cost to the Project.

4. All miscellaneous items not specifically mentioned or designated on the Drawings as removal items, but required for the completion of the Work, shall be removed. All such items removed shall be hauled from the site.
- B. Barricades and Warning Signs:
1. Construction sites shall be properly barricaded with appropriate warning signs affixed to prevent unauthorized access to the construction site.

++ END OF SECTION ++

SECTION 02145

DIVERSION OF SEWAGE FLOW AND DEWATERING

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. This Section provides minimum requirements for temporary bypass pump station and dewatering of sewers as required to completing work and prior to acceptance.

B. Requirements:

1. CONTRACTOR shall provide all labor, materials, equipment, and supervision to temporarily bypass pump sewage flow around the CONTRACTOR'S Work and to dewater the pipeline for removal. The bypass strategy shall maintain flow to prevent wastewater backup into the City's sewage collection system or discharge to the environment.
2. The actual design of the bypass arrangement shall be prepared by the CONTRACTOR, and shall be submitted to the OWNER and CONSTRUCTION MANAGER for review. Means and methods of accomplishing the bypassing shall be the responsibility of the CONTRACTOR.
3. The CONTRACTOR shall have the entire bypassing system in place and tested before bypassing any sewage.
4. The CONTRACTOR shall notify the OWNER 72 hours prior to bypassing the pipeline. The wastewater levels shall be continuously monitored by the CONTRACTOR.
5. CONTRACTOR is responsible for immediate and proper cleanup should any spill occur, regardless of amount.
6. CONTRACTOR shall connect bypass piping to the existing collection system and utilize temporary pumps and control equipment.
7. CONTRACTOR shall utilize a pumping system with 100% back-up capability. In the event a pump shall fail, an alternate equally sized pump shall be ready to be utilized immediately. This requires the alternate pump(s) to be connected to the forcemain system.
8. CONTRACTOR shall have enough pipe material and fittings on site to provide redundancy to the forcemain system for use should the primary forcemain fail during operation. Forcemain shall be fusible HDPE. The forcemain shall be sized with a velocity of less than 5 feet per second.
9. CONTRACTOR shall coordinate operation of temporary bypass pump station with authorized City of Chandler personnel. CONTRACTOR shall not operate any equipment in or about temporary bypass pump station

without prior written consent from OWNER and copied to CONSTRUCTION MANAGER.

10. Bypass pump operation shall include a lighting system at the bypass pump operation and the forcemain discharge. The lighting system shall be gas operated.
11. CONTRACTOR shall provide qualified personnel, at a minimum two (2), on-site 24 hours per day to maintain the bypass pumps and pipeline.
12. CONTRACTOR shall continuously monitor hydrogen sulfide concentrations at the suction side of the bypass pump operation and the forcemain discharge. CONTRACTOR shall provide temporary covering at each location to minimize hydrogen sulfide releases. This may include providing and installing a temporary odor control system as determined by the OWNER.
13. CONTRACTOR shall provide, install, and maintain safety signs as determined by the OWNER. CONTRACTOR shall plan for at least 20 signs measuring 14-inches by 10-inches. Signs shall be installed prior to testing the bypass pumping system.

C. Experience:

1. CONTRACTOR shall utilize staff and/or a subcontractor that has been directly responsible for the bypass pumping of sewage flows during the completion of a similar pipeline project.

1.2 SUBMITTALS

A. Provide a detailed plan for the bypass pump operation. The plan shall include the following items:

1. Detailed layout of the temporary pumping system. Include layouts of the pump station and forcemain. The layout shall include all redundant pumps and forcemains.
2. Pump suction piping size and layout.
3. Pump equipment data sheets. Data sheets shall include a system head curve along with a pump curve to verify its operating point. The system head curve calculations shall be developed by the CONTRACTOR and be included within the submittal for review.
4. Forcemain diameter and material data sheets.
5. Forcemain sizing calculations.
6. Detailed list of personnel to be utilized for the bypass pump operation. The list shall also include the local supplier of the by-pass pumps and forcemains.
7. Detailed list of additional parts and equipment to be placed at the site should the system not operate as intended.
8. Additional temporary measures that are planned to be supplied to ensure safe and reliable bypass pump operation.
9. Detailed list of items and methods utilized to repair or replace items damaged or modified due to the by-pass pump operation.

- B. The plan shall include a detailed daily schedule and a list of daily activities that will be completed before, during, and after the bypass operation. Include all personnel that are planned to work on the pipeline and the bypass pump operation.
- C. Provide an emergency contact list for all of the personnel to be at the site. Include all of the OWNER's and CONSTRUCTION MANAGER's personnel. Once the emergency contact list is finalized, three (3) copies shall be printed, laminated, and placed at locations along the bypass pump operation as determined by the OWNER.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. CONTRACTOR shall provide temporary piping, fittings, conduits, and all other equipment to bypass sewer flow around the CONTRACTOR'S Work as required. CONTRACTOR shall furnish all necessary labor supervision to set up and operate the pumping system. Equipment shall be equipped with sound attenuation devices to keep noise level within limits specified in the City of Chandler Codes or stated in the Contract Documents. Bypass shall be of adequate capacity and size to handle the required flows.
- B. Bypass piping shall be polyethylene pipe with Standard PE Code Designation PE3408 as defined in AWWA C906, have a minimum Cell Classification of PE 334434C as defined in ASTM D3350, and designed using Hydrostatic Design Basis of 1,600 psi as specified in ASTM D2837. The physical properties of the polyethylene pipe shall have minimum test values as specified in ASTM D3350. Properties shall be substantiated with test data.
- C. The polyethylene shall be designed by CONTRACTOR in accordance with the procedures of AWWA Design Manual M55, applicable MAG standards and these Specifications. All material properties used in design calculations shall be long-term (time-corrected) values. CONTRACTOR shall be familiarized with site conditions when preparing the pipe design.
- D. CONTRACTOR shall calculate the required minimum wall thickness using the following parameters:
 - 1. Modulus of Soil Reaction: $E's = 500$ psi (fully deteriorated).
 - 2. Unit Weight of Soil: $w = 140$ pcf.
 - 3. Vacuum Pressure: $PV = 14.7$ psi.
 - 4. Ground Water Depth Above Invert: $h = 4$ feet.
 - 5. Live Loads: AASHTO H-20.
 - 6. Safety Factor: $N = 2.0$.
 - 7. Internal Operating Temperature (Design): $T_n = 24^{\circ} C$ to $33^{\circ} C$.
 - 8. Minimum Depth of Cover: $d = 2$ feet.

9. Maximum Depth of Cover: $d = 10$ feet.
 10. Poisson's Ratio for Long Term Loading: $m = 0.45$.
 11. Bedding Constant: $K = 0.1$.
 12. Time Lag Factor: $TL = 1.5$.
 13. Long Term Apparent Modulus of Elasticity: $E = 23,000$ psi.
 14. Working Pressure: $P = 110$ psi.
 15. Test Pressure: $P = 150$ psi.
 16. Ovality Compensation Factor: $f_0 = 0.5$.
 17. Recurrent Surge Velocity: $DVRS = 2.9$ ft./sec.
 18. Occasional Surge Velocity: $DVOS = 6.2$ ft./sec.
 19. Bulk Modulus of Water: $K = 300,000$ psi.
 20. Effective Modulus of Pipe Material: $E_d = 150,000$ psi.
 21. Design Factor for use in AWWA M55 eq 4-1: $DF = 0.5$.
 22. Allowable Deflection: As described in AWWA M55, Table 5-11.
- E. CONTRACTOR shall maintain on-site sufficient equipment and materials to ensure continuous and successful operation of the bypass and dewatering systems. The CONTRACTOR shall maintain on-site a sufficient number of valves, tees, elbows, connections, tools, sewer plugs, piping, and other parts or system hardware to ensure immediate repair or modification of any part of the system as necessary.
- F. All equipment shall be placed on a new plastic tarp, adequately sized, and bermed to protect against gasoline, oil, and hydraulic fluid spills.

PART 3 - EXECUTION

3.1 PROTECTION

- A. In areas where flows are bypassed, all bypass flow shall be discharged to a downstream sanitary sewer manhole following a bypass plan approved by the OWNER and CONSTRUCTION MANAGER. No bypassing to ground surface receiving waters, canals, storm drains, or bypassing which results in groundwater contamination or potential health hazards shall be permitted in accordance with the General Conditions.

3.2 DAMAGES

- A. The CONTRACTOR shall repair, without cost to OWNER, any damage that may result from his negligence, inadequate or improper mechanical or electrical failures.

++ END OF SECTION ++

SECTION 11295

HYDRAULIC VALVES

PART 1 - GENERAL

1.1 SUMMARY

- A. Furnish and install all valves and valve accessories for water as indicated on the Plans and as specified herein, including all appurtenances required for a complete and operational installation.

1.2 RELATED SECTIONS

- A. Section 01300, Submittals.

1.3 REFERENCES

- A. ANSI/AWWA C500 - Gate Valves.
- B. ANSI/AWWA C509 - Resilient-Seated Gate Valves.
- C. ANSI B16.1.
- D. ANSI B46.1.
- E. ASTM A126.
- F. ASTM A269.
- G. ASTM A48.
- H. ASTM A536.
- I. ASTM A582.
- J. ASTM B271.
- K. ASTM D429.
- L. ASTM D1784.
- M. ASTM D2000.
- N. ASTM F439.
- O. All other applicable ASTM and ANSI Standards.

1.4 SUBMITTALS

- A. Each Shop Drawing submittal shall include a copy of the relevant Specification Section. Each and every paragraph of the Specification Section shall be clearly marked to indicate whether the requirements for equipment and/or services in the Specification Section are met. If clarifications are needed to any of the paragraphs in the Specification Section, they shall be addressed next to the paragraph or in an attached letter as such and explained further with any additional information necessary. If any exceptions and/or deviations are proposed to any of the Specifications, they shall be clearly noted as such in the submittal, and an explanation of any deviation and/or exception shall be provided. The CONTRACTOR shall furnish equipment and/or services as specified if an exception and/or deviation is rejected.

PART 2 - PRODUCTS

2.1 GENERAL

- A. All buried valves shall be provided with a valve box and cover.

2.2 VALVES

- A. Gate Valves, Insertion Valves, Combination Air Release Valves:
 - 1. All Water Valves shall be in accordance with City of Chandler Supplement to MAG Standard Specification Sections 610 and 630 and as listed in the latest City of Chandler Approved Product List.
 - 2. All buried valve box installation for potable water shall be per City of Chandler Standard Detail C-307.
 - 3. All buried valve box installation for reclaimed water shall be per City of Chandler Standard Detail C-406.

2.3 SHOP PAINTING

- A. The manufacturer shall paint all valves, floor boxes, and valve boxes as follows:
 - 1. Clean and remove oil, grease, dirt, loose mill scale, and other foreign substances from un-galvanized ferrous-metal surfaces.
 - 2. Solvent scrub with stiff bristle brush followed by brush-off abrasive blast cleaning to a minimum surface profile depth of 1.5 mils.
 - 3. Valves, floor boxes, and valve boxes to be installed in exterior or buried conditions shall have prime coat Series 69-1255 (beige) H.B. Epoxoline II; one coat, 3-5 mils dry film thickness (DFT).
 - 4. Valves and floor boxes to be installed in interior exposure conditions shall have prime coat Series 135 Chembuild; one coat, 3-5 mils DFT.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Valves of the various types and pattern shall be installed at the respective locations as shown on the Drawings and specified herein. All appurtenances required for operation and control of the valves shall be included. Joints and connections shall be made in accordance with applicable requirements for pipeline or pipe joints. Valve stems shall be plumb and vertical unless otherwise specifically shown. Each valve shall be adjusted for smooth and easy operation and shall be watertight when placed in operation under maximum working pressure.

++ END OF SECTION ++

SECTION 15050

PIPING SYSTEMS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: This Section specifies systems of process piping and general requirements for piping systems. Detailed Specifications for the components listed on the Piping System Specification Sheets are found in other Sections of Division 15, Mechanical. This Section shall be used in conjunction with those Sections.
- B. Related Sections:
 - 1. Section 15051, Buried Piping Installation.

1.2 QUALITY ASSURANCE

- A. This Section contains references to the following documents. They are a part of this Section as specified and modified. In case of conflict between the requirements of this Section and those of the listed documents, the requirements of this Section shall prevail.
- B. Unless otherwise specified, references to documents shall mean the documents in effect at the time of Advertisement for Bids or Invitation to Bid (or on the effective date of the Agreement if there were no Bids). If referenced documents have been discontinued by the issuing organization, references to those documents shall mean the replacement documents issued or otherwise identified by that organization or, if there are no replacement documents, the last version of the document before it was discontinued. Where document dates are given in the following listing, references to those documents shall mean the specific document version associated with that date, whether or not the document has been superseded by a version with a later date, discontinued, or replaced.
 - 1. AASHTO M36/M36M - Metallic (Zinc or Aluminum) Coated Corrugated Steel Culverts and Underdrains.
 - 2. ANSI A13.1 - Scheme for the Identification of Piping Systems.
 - 3. ANSI B1.20.1 - Pipe Threads, General Purpose (Inch).
 - 4. ANSI B16.1 - Cast Iron Pipe Flanges and Flanged Fittings Class 25, 125, 250, and 800.
 - 5. ANSI B16.3 - Malleable Iron Threaded Fittings Class 150 and 300.
 - 6. ANSI B16.5 - Pipe Flanges and Flanged Fittings.
 - 7. ANSI B16. - Factory Made Wrought Steel Buttwelding Fittings.
 - 8. ANSI B16.11 - Forged Steel Fittings, Socket Welding and Threaded.
 - 9. ANSI B16.12 - Cast Iron Threaded Drainage Fittings.
 - 10. ANSI B16.22 - Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.

11. ANSI B16.26 - Cast Copper Alloy Fittings for Flared Copper Tubes.
12. ANSI B31.1 - Power Piping.
13. ANSI B31.3 - Chemical Plant and Petroleum Refinery Piping.
14. ASME Section IX - Boiler and Pressure Vessel Code; Welding and Brazing Qualifications.
15. ASTM A47 - Malleable Iron Castings.
16. ASTM A74 - Cast Iron Soil Pipe and Fittings.
17. ASTM A105/A105M - Forgings, Carbon Steel, for Piping Components.
18. ASTM A106 - Seamless Carbon Steel Pipe for High Temperature Service.
19. ASTM A126 - Standard Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings.
20. ASTM A197 - Cupola Malleable Iron.
21. ASTM A234/A234M - Pipe Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Elevated Temperatures.
22. ASTM A312/A312M - Seamless and Welded Austenitic Stainless Steel Pipe.
23. ASTM A403/A403M - Wrought Austenitic Stainless Steel Piping Fittings.
24. ASTM A536 - Ductile Iron Castings.
25. ASTM A570/A570M - Hot Rolled Carbon Steel Sheet and Strip, Structural Quality.
26. ASTM B88 - Seamless Copper Water Tube.
27. ASTM C76 - Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe.
28. ASTM C443-REV A - Standard Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets.
29. ASTM C564 - Rubber Gaskets for Cast Iron Soil Pipe and Fittings.
30. ASTM D1248 - Polyethylene Plastics Molding and Extrusion Materials.
31. ASTM D1784 - Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
32. ASTM D1785 - Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120.
33. ASTM D2241 - Poly (Vinyl Chloride) (PVC) Plastic Pipe (SDR-PR).
34. ASTM D2513 - Thermoplastic Gas Pressure Pipe, Tubing, and Fittings.
35. ASTM D2665 - Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings.
36. ASTM D2996 - Filament Wound Reinforced Thermosetting Resin Pipe.
37. ASTM D3034 - Standard Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings.
38. ASTM D3261 - Butt Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing.
39. ASTM D4174 - Cleaning, Flushing, and Purification of Petroleum Fluid Hydraulic Systems.
40. ASTM D4101 - Propylene Plastic Injection and Extrusion Materials.
41. ASTM F441 - Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80.
42. AWWA C105 - Polyethylene Encasement for Ductile-Iron Piping for Water and Other Liquids.

43. AWWA C110 - Ductile Iron and Gray Iron Fittings, 3" Through 48", for Water and Other Liquids.
 44. AWWA C111 - Rubber Gasket Joints for Ductile Iron and Gray Iron Pressure Pipe and Fittings.
 45. AWWA C115 - Flanged Ductile Iron and Gray Iron Pipe with Threaded Flanges.
 46. AWWA C151 - Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or Other Liquids.
 47. AWWA C200 - Steel Water Pipe 6" and Larger.
 48. AWWA C205 - Cement Mortar Protective Lining and Coating for Steel Water Pipe - 4" and Larger - Shop Applied.
 49. AWWA C206 - Field Welding of Steel Water Pipe.
 50. AWWA C207 - Steel Pipe Flanges for Waterworks Services - Sizes 4" Through 144".
 51. AWWA C208 - Dimensions for Fabricated Steel Water Pipe Fittings.
 52. AWWA C209 - Cold Applied Tape Coating for Special Sections, Connections, and Fittings for Steel Water Pipelines.
 53. AWWA C210 - Liquid Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipe.
 54. AWWA C214 - Tape Coating Systems for the Exterior of Steel Water Pipelines.
 55. AWWA 301 - Pre-stressed Concrete Pressure Pipe, Steel Cylinder Type, for Water and Other Liquids.
 56. AWWA C303 - Reinforced Concrete Pressure Pipe, Steel Cylinder Type, Pre-tensioned, for Water and Other Liquids.
 57. AWWA C600 - Installation of Ductile Iron Water Mains and Their Appurtenances.
 58. AWWA C651 - Disinfecting Water Mains.
 59. AWWA C900 - Polyvinyl Chloride (PVC) Pressure Pipe, 4" Through 12", for Water.
 60. AWWA M11 - Steel Pipe - A Guide for Design and Installation.
 61. CISPI 301 - Specification Data for Hubless Cast Iron Sanitary System with No-Hub Pipe and Fittings.
 62. FEDSPEC L-C-530B(1) - Coating, Pipe, Thermoplastic Resin, or Thermosetting Epoxy.
 63. MIL-H-13528B - Hydrochloric Acid, Inhibited, Rust Removing.
 64. MIL-STD-810C - Environmental Test Methods.
 65. SAE J1227 - Assessing Cleanliness of Hydraulic Fluid Power Components and Systems.
 66. UPC - Uniform Plumbing Code.
- C. Fittings and Coupling Compatibility:
1. To assure uniformity and compatibility of piping components, fittings and couplings for grooved end piping systems shall be furnished by the same manufacturers.

- D. All Pipes, fittings, valves, fire hydrants, and other appurtenances shall conform to current AAWA, ASTM, and NSF standards.
- E. All material that comes in contact with water shall conform to ANSI/NSF Standard 61.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

- A. Unless otherwise specified, piping materials including pipe, gaskets, fittings, connection and joint assemblies, linings, and coatings shall be selected from those listed on the Piping System Specification Sheets.
- B. Piping materials shall conform to detailed specifications for each type of pipe and piping appurtenance specified in other Sections of Division 15, Mechanical.
- C. All piping shall be compatible with the fluid to which it is exposed.
- D. All piping and valves to be used for the air release valve connections shall be copper or brass material.
- E. All piping which comes in contact with potable water shall have ASNI/NSF 61 certification.

2.2 VALVES

- A. Valves of the same size and service shall be provided by a single valve manufacturer. Packing shall be non-asbestos material. Actual length of valves shall be within 1/16-inch ($\pm$) of the manufacturer's specified length. Flanges shall meet the requirement of ANSI B16.5. Push-on and mechanical joints shall meet the requirements of AWWA C111.
- B. All Valves shall be manufactured as listed in the latest City of Chandler Approved Product List. No other manufacturer shall be acceptable.

2.3 SUBMITTALS

- A. All additional submittal information shall be included with this submittal information as noted in the Division 15, Mechanical, Pipe Material Specifications.
- B. Each Shop Drawing submittal shall include a copy of the relevant Specification Section. Each and every paragraph of the Specification Section shall be clearly marked to indicate whether the requirements for equipment and/or services in the Specification Section are met. If clarifications are needed to any of the paragraphs in the Specification Section, they shall be addressed next to the paragraph or in an attached letter as such and explained further with any additional information

necessary. If any exceptions and/or deviations are proposed to any of the Specifications, they shall be clearly noted as such in the submittal, and an explanation of any deviation and/or exception shall be provided. The CONTRACTOR shall furnish equipment and/or services as specified if an exception and/or deviation is rejected.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Location:

1. Piping shall be provided as specified, except for adjustments, to avoid architectural and structural features.

B. Piping Sizes:

1. Where the size of piping is not specified, the CONTRACTOR shall provide piping of the sizes required by UPC. Unless specified otherwise, small piping (less than 1-inch in diameter) required for services not described by UPC shall be 1/2-inch.

3.2 TESTING

A. General:

1. Upon completion of piping, but prior to application of insulation on exposed piping, the CONTRACTOR shall test the piping systems in accordance with the appropriate MAG and City of Chandler Specifications. Pressures, media, and test durations shall be as specified in the PIPESPEC. Equipment which may be damaged by the specified test conditions shall be isolated. Testing shall be performed using calibrated test gages and calibrated volumetric measuring equipment to determine leakage rates. Each test gage shall be selected so that the specified test pressure falls within the upper half of the gage's range. Unless otherwise specified, the CONTRACTOR shall notify the CONSTRUCTION MANAGER 24 hours prior to each test.
2. Unless otherwise specified, testing, as specified herein, shall include existing piping systems that connect with new pipe systems. Existing pipe shall be tested to the nearest existing valve. Any piping that fails the test shall be repaired. Repair of existing piping will be considered and paid for as extra Work.
3. All blow off assemblies shall be removed after successful testing of the new pipes as specified in the Drawings.

B. Liquid Systems:

1. Pressure and leakage testing for water systems shall be in accordance with MAG Section 610. Unless otherwise specified, leakage from other buried liquid piping systems shall be less than 0.02 gallons per hour per inch diameter per 100 feet of buried piping.

2. Potable Water and Reclaimed Water Systems Additional Requirements:
 - a. The CONTRACTOR shall provide all vents, piping, plugs, bulkheads, valves, bracing, blocking, pump, including measuring device and all other equipment necessary for making the tests, except pressure gages.
 - b. The pipe shall be tested between each valve or between a valve and the closed end of the pipe.
 - c. Pipe test section shall be limited to 1/2 linear mile, or less, unless otherwise approved in writing by the Engineer. Testing cannot be done against an existing valve. The new pipeline must be separated from any potable system in such a way to prevent any potential for cross-contamination between the existing potable water system and the new pipeline.
 - d. The test shall be made after the backfilling is completed or compacted, regardless of the compaction method.
 - e. All connections, blow-offs, hydrants and valves shall be tested with the main, where practical.
 - f. The test section shall be slowly filled with potable water and reclaimed water, based on the system being connected, and all air shall be vented from the line. The rate of filling shall be as approved by the ENGINEER, with at least 24-hour notice required before filling is scheduled.

C. Drains:

1. Drain systems, other than pumped drain systems, shall be tested in accordance with UPC.

3.3 CLEANING AND FLUSHING

A. General:

1. Piping systems shall be cleaned following completion of testing and prior to connection to operating, control, regulating, or instrumentation equipment.
2. The CONTRACTOR may, at his option, clean and test sections of buried piping systems. Use of this procedure, however, will not waive the requirement for a full pressure test of the completed system.
3. Unless specified otherwise, piping 24-inches in diameter and smaller shall first be cleaned by pulling a tightly fitting cleaning ball or swab through the system.
4. Piping larger than 24-inches in diameter may be cleaned manually or with a cleaning ball or swab.

B. Liquid Systems:

1. After completion of cleaning, liquid systems, unless otherwise specified, shall be flushed with clean water.

C. Water Systems:

1. For non-potable water systems, final flushing and microbiological testing, as specified in MAG Section 611.15, is not required.

3.4 PIPING SPECIFICATION SHEETS (PIPESPEC)

- A. Piping and valves for groupings of similar plant processes or types of service lines are specified on individual piping specification sheets (PIPESPECS). Piping services are grouped according to the chemical and physical properties of the fluid conveyed and/or by the temperature or pressure requirements. Piping services specified in the PIPESPECS and on the Drawings are alphabetically arranged by designated service symbols.

TABLE A - PIPING SERVICES			
Symbol	Service	Fluid Category	Pipe Marker Background Color
W	Potable Water	Liquid	Blue
RW	Reclaimed Water	Liquid	Purple
SS	Sanitary Sewer	Liquid	Green

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PIPING SYMBOL/SERVICE

SS / SANITARY SEWER

Refer to section 15067, Vitrified Clay Pipe.

PIPING SYMBOL/SERVICE

POT / POTABLE WATER;
RW/RECLAIMED WATER

Medium:

Potable Water, Reclaimed Water

Pressure:

As shown on buried and exposed piping schedules. All requirements of COC.

Duration:

2 hours.

Gasket Requirements:

Flange:

Red Rubber Gasket Material (SBR)
conforming to ASTM D1330.

Push-on/Mech. Cpl:

Nitrile or Neoprene. Areas within 35-foot SRP easement shall be fitted with EPDM or Fluoroelastomer Fluorel Viton suitable for water service of up to 212°F.

Buried and Encased Pipes:

(See Drawings for pipe sizes and materials.)

2" and Smaller

Copper Tube; ASTM B88, Type K, drawn.
Ref. Spec. Section 15064, Copper Pipe.
Copper Conn; Solder type with
threaded adapters.
Copper Ftgs; Wrought copper or
bronze, ANSI B16.22.
Copper Interior Lining; None.
Copper Exterior Coating; None.

4" and Larger

Ductile Iron; AWWA C151
with cement mortar lining. Ref.
Spec. Section 15061

Ductile Iron Conn; Restrained push-
on rubber gasket joint.
Flanged adapters for valves
and ends.

Ductile Iron Ftgs; Ductile iron per
Spec. Section 15061.

Ductile Iron Exterior Coating;
Bituminous Coated,
Polyethylene Wrap

Remarks:

1. Potable water lines shall be disinfected in accordance with AWWA C651-92.
2. All piping, fittings, valves, and any other material that comes in contact with drinking water shall comply with NSF Standards 60 and 61.

PIPING SCHEDULE TABLE

BURIED PIPE

SERVICE DESCRIPTION	PIPE SYMBOL	PIPE MATERIAL	SPECIFICATION	CLASS/ TYPE	INTERIOR LINING	EXTERIOR COATING	JOINT TYPE	TEST PRESSURE
POTABLE WATER 3-INCHES AND SMALLER	W	COP	15064	K	NONE	-	SD	PER 15051
POTABLE WATER 4-INCHES AND LARGER UPTO 12-INCHES	W	DIP	15061	350	CM	BC/PE	MJ	PER 15051
POTABLE WATER 14-INCHES AND LARGER UPTO 24-INCHES	W	DIP	15061	250	CM	BC/PE	MJ	PER 15051
POTABLE WATER LARGER THAN 24-INCHES	W	DIP	15061	150	CM	BC/PE	MJ	PER 15051
RECLAIMED WATER 3-INCHES AND SMALLER	RW	COP	15064	K	NONE	-	SD	PER 15051
RECLAIMED WATER 4-INCHES AND LARGER UPTO 12-INCHES	RW	DIP	15061	350	CM	BC/PE	MJ	PER 15051
RECLAIMED WATER 14-INCHES AND LARGER UPTO 24-INCHES	RW	DIP	15061	250	CM	BC/PE	MJ	PER 15051
RECLAIMED WATER LARGER THAN 24-INCHES	RW	DIP	15061	150	CM	BC/PE	MJ	PER 15051
SANITARY SEWER	SS	VCP	15067	Extra Strength	N/A	N/A	CJ	PER 15051

* Refer to specification 15051 for summary of abbreviations.

++ END OF SECTION ++

SECTION 15051

BURIED PIPING INSTALLATION

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. CONTRACTOR shall provide all labor, materials, equipment, and incidentals as shown, specified, and required to install and test all buried piping, fittings, and specials. The Work includes, but is not limited to, the following:
 - a. All types and sizes of buried piping, except those specified under other Sections.
 - b. Supports, restraints, and thrust blocks.
 - c. Pipe encasements.
 - d. Work on or affecting existing piping.
 - e. Testing.
 - f. Cleaning.
 - g. Installation of all jointing and gasketing materials, specials, flexible couplings, mechanical couplings, harnessed and flanged adapters, sleeves, tie rods, and all other Work required to completing the buried piping installation.
 - h. Incorporation of valves, meters and special items shown or specified into the piping systems as required and as specified in the appropriate Division 15, Mechanical Sections.
 - i. Unless otherwise specifically shown, specified, or included under other Sections, all buried piping work required begins at the outside face of structures or structure foundations and extending away from structure.

B. Coordination:

1. Review installation procedures under other Sections and coordinate with the Work that is related to this Section.
2. Section 15051, Buried Pipe Installation, specifies the installation of all buried piping materials specified in Sections of Division 15, Mechanical. Coordinate with these Sections.

C. Related Work Specified Elsewhere:

1. Section 11295, Hydraulic Valves.
2. Section 15050, Piping Systems.
3. Section 15061, Ductile Iron Pipe.
4. Section 15064, Copper Pipe.
5. Section 15067, VCP Pipe.
6. Section 15020, Piping Specialties and Accessories.

1.2 QUALITY ASSURANCE

- A. CONTRACTOR shall conform to all applicable requirements of Parts 600 and 700 of the Uniform Standard Specifications for Public Work Construction by the Maricopa Association of Governments (MAG). If there is a conflict between MAG Standard Specifications and these Specifications, the provisions of these Specifications shall govern.
- B. Requirements of Regulatory Agencies:
 - 1. Comply with requirements of UL, FM, and other jurisdictional authorities, where applicable.
 - 2. Refer to the General and Supplementary Conditions regarding permit requirements for this Work.
- C. Reference Standards: Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified.
 - 1. ASTM D2321 - Practice for Underground Installation of Flexible Thermoplastic Pipe.
 - 2. ASTM D2774 - Practice for Underground Installation of Thermoplastic Pressure Piping.
 - 3. AWWA C105 - Polyethylene Encasement for Ductile Iron Piping for Water and Other Liquids.
 - 4. AWWA C111 - Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings.
 - 5. AWWA C200 - Steel Water Pipe.
 - 6. AWWA C205 - Cement Mortar Protective Lining and Coating for Steel Water Pipe.
 - 7. AWWA C206 - Field Welding of Steel Water Pipe.
 - 8. AWWA C207 - Steel Pipe Flanges for Waterworks Service.
 - 9. AWWA C208 - Dimensions for Fabricated Steel Water Pipe Fittings.
 - 10. AWWA C600 - Installation of Ductile Iron Water Mains and Their Appurtenances.
 - 11. AWWA C606 - Grooved and Shouldered Joints.
 - 12. AWWA C651 - Disinfecting Water Mains.
 - 13. AWWA M11 - Steel Pipe - A Guide for Design and Installation.
 - 14. AWWA M23 - PVC - Design and Installation.
 - 15. AWWA M41 - Ductile Iron Pipe and Fittings.
 - 16. ASCE MOP No. 37 - Design and Construction of Sanitary and Storm Sewers
 - 17. Concrete Pipe Handbook - American Concrete Pipe Association.

1.3 SUBMITTALS

- A. Shall be in accordance with Section 15050, Piping Systems, submittal information.
- B. Each Shop Drawing submittal shall include a copy of the relevant Specification Section. Each and every paragraph of the Specification Section shall be clearly marked to indicate whether the requirements for equipment and/or services in the

Specification Section are met. If clarifications are needed to any of the paragraphs in the Specification Section, they shall be addressed next to the paragraph or in an attached letter as such and explained further with any additional information necessary. If any exceptions and/or deviations are proposed to any of the Specifications, they shall be clearly noted as such in the submittal, and an explanation of any deviation and/or exception shall be provided. The CONTRACTOR shall furnish equipment and/or services as specified if an exception and/or deviation is rejected.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the site to ensure uninterrupted progress of the Work.
- B. Handle all pipe, fittings, specials, and accessories carefully with approved handling devices. Do not drop or roll material off trucks. Do not otherwise drop, roll, or skid piping.
- C. Store pipes and fittings on heavy wood blocking or platforms so they are not in contact with the ground.
- D. Unload pipe, fittings, and specials opposite to or as close to the place where they are to be installed as is practical to avoid unnecessary handling. Keep pipe interiors completely free from dirt and foreign matter.
- E. Inspect delivered pipe for cracked, gouged, chipped, dented, or other damaged material and immediately remove defective pipe from site.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Required pipe materials are listed in the Piping Schedule. Refer to applicable Sections for Material Specifications.
- B. General:
 - 1. Marking Piping:
 - a. Clearly mark each piece of pipe or fitting with a designation conforming to those shown on the laying schedule and/or Shop Drawings.
 - b. Cast or paint material, type, and pressure designation on each piece of pipe or fitting 4-inches in diameter and larger.
 - c. Pipe and fittings smaller than 4-inches in diameter shall be clearly marked by manufacturer as to material, type, and rating.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General:

1. Installation of all pipe, fittings, valves, specials, and appurtenances shall be subject to the review and/or approval of the CONSTRUCTION MANAGER.
2. Install piping as shown, specified, and as recommended by the manufacturer and in conformance with referenced standards, and approved Shop Drawings.
3. Request instructions from CONSTRUCTION MANAGER before proceeding if there is a conflict between the manufacturer's recommendations and the Contract Documents.
4. All piping shall be inspected by the CONSTRUCTION MANAGER prior to installation. CONSTRUCTION MANAGER'S inspection will not relieve CONTRACTOR or manufacturer from responsibility for damaged products.
5. All piping shall be carefully examined for cracks, damage, or other defects before installation. Any piping that is defective, including but not limited to, cracked, damaged, in poor condition, or with damaged linings or improper markings shall be rejected unless the product can be repaired in a manner acceptable to the manufacturer and CONSTRUCTION MANAGER. Any piping found to be broken or defective after it has been installed shall be removed, replaced, or repaired at the CONTRACTOR'S expense.
6. Minimum earth cover over the piping shall be as shown on the Drawings, specified or directed by the CONSTRUCTION MANAGER, but in no case shall the earth cover be less than 4 feet for all piping larger than 6-inches in diameter.
7. Present all conflicts between piping systems and equipment, structures or facilities to CONSTRUCTION MANAGER for determination of corrective measures before proceeding.
8. Take field measurements, where required, prior to installation to ensure proper fitting of Work. The CONTRACTOR shall uncover the existing pipelines sufficiently in advance of the proposed Work in order that the type and location of the existing pipes and joints and other information required to fabricate the proposed piping can be determined. It shall be the responsibility of the CONTRACTOR to obtain whatever information is required to complete the connections of the proposed pipelines to the existing pipelines. Refer to Paragraph 3.3 of this Section, as applicable.
9. Interior of all piping and mating surfaces shall be inspected and all dirt, gravel, sand, debris or other foreign material shall be completely removed from the interior and mating surfaces before installation. Measures shall be taken to maintain the interior of all piping clean until acceptance of the completed Work. Care shall be taken to prevent foreign matter from entering joint space. Bell and spigot mating surfaces shall be wiped clean immediately before piping is laid. For ductile iron pipe, the bell and spigot mating surfaces shall be thoroughly cleaned with a wire brush.

10. Install piping accurately to line and grade shown, specified or directed, unless otherwise approved by the CONSTRUCTION MANAGER. Accurate means of determining and checking the alignment and grade shall be used, which shall be subject to the approval of the CONSTRUCTION MANAGER. Any modifications to the Contract Documents to suit the pipe manufacturer's standard shall be approved by the CONSTRUCTION MANAGER. Remove and relay piping that is incorrectly installed, at CONTRACTOR'S expense.
11. Do not lay piping in water, unless otherwise specified in these Specifications or approved by the CONSTRUCTION MANAGER. Ensure that the water level in the trench is at least 6-inches below the bottom of piping. Maintain a dry trench until jointing and backfilling are complete, unless otherwise specified in these Specifications or approved by the CONSTRUCTION MANAGER.
12. Where unforeseen conditions will not permit the installation of piping as shown or specified, no piping shall be installed without approval of the CONSTRUCTION MANAGER. Do not modify structures or facilities without approval of the CONSTRUCTION MANAGER.
13. Start laying piping at lowest point and proceed toward the higher elevations, unless otherwise approved by the CONSTRUCTION MANAGER. Slope piping uniformly between elevations shown on the Drawings or as otherwise directed by the CONSTRUCTION MANAGER.
14. Place bell and spigot piping so that the bells face the direction of laying, unless otherwise approved by the CONSTRUCTION MANAGER.
15. Piping shall be installed so that the barrel of the piping, and not the joints, receives the bearing pressure from the trench bottom or other bedding condition.
16. No piping shall be brought into position until the preceding length, valve, fitting, or special has been bedded and secured in place.
17. Whenever pipe laying is not actively in progress, the open ends of the piping shall be closed by a temporary plug or cap to prevent soil, water, and other foreign matter from entering the piping.
18. Field cutting of metallic piping, where required for inserting valves, fitting, specials, and closures, shall be made with a machine specially designed for cutting piping and in accordance with the manufacturer's instructions. Cuts shall be carefully done, without damage to piping, so as to leave a smooth end at right angles to the axis of the piping. Cut end shall be tapered and sharp edges filed off smooth. Flame cutting shall not be permitted. Piping damaged by the CONTRACTOR by improper or careless methods of cutting shall be replaced or repaired at his expense.
19. Blocking under piping shall not be permitted, unless specifically approved by CONSTRUCTION MANAGER for special conditions.
20. Protective linings and coatings shall be touched up prior to installation, where required.
21. Except where bends, wyes or similar fittings are used, changes in alignment and grade of the piping shall be made by deflecting joints or with beveled pipe.

Permissible joint deflection shall not exceed 75% of the amount allowed by the manufacturer.

22. All joints shall be made in the presence of the CONSTRUCTION MANAGER, or his duly authorized representative, except as otherwise approved.
23. Special care shall be taken to ensure that each section of piping abuts against the next in such a manner that there will be not shoulder or unevenness of any kind along the piping invert.
24. Piping shall be rotated as required to place outlets in proper position.
25. Blind flanges and cleanouts shall be provided at locations shown on the Drawings, specified, or required. Cleanouts on buried piping shall include all pipes, fittings, and appurtenances required to bring cleanout to finished grade and terminate in a flange and blind flange or suitably capped piping as shown. Cleanout piping shall be same as that specified for the main run.
26. All gravity lines shall pitch uniformly at the grade shown or as specified or approved.
27. Short pipe stubs, maximum 4 feet in length, shall be used at all manholes and other wall faces, except as otherwise specified.
28. Field painting shall be accomplished after joints are made.
29. All piping shall be plugged watertight with a suitable cap or plug securely fastened to the end of the piping at all contact interfaces.
30. CONTRACTOR shall notify CONSTRUCTION MANAGER in advance of backfilling operations.
31. On steep slopes, take measures acceptable to CONSTRUCTION MANAGER to prevent movement of the pipe during installation.
32. Thrust Restraint: During the installation of the pipe, thrust blocks, tied joints, or proprietary restrained joint systems shall be provided wherever required for thrust restraint. Thrust restraint shall conform to the applicable requirements of Paragraph 3.2 of this Section.
33. Exercise care to avoid flotation when installing pipe in cast-in-place concrete.

B. Manufacturer's Installation Specialist:

1. Provide the services of a competent installation specialist of the pipe manufacturer when pipe laying begins if the CONTRACTOR is not experienced in laying and jointing a particular type of pipe.
2. Retain installation specialist at the site for a minimum of two days or until competency of the pipe laying crew has been satisfactorily demonstrated.

C. Separation of Sewers and Potable Water Pipe Lines:

1. Conform to the requirements of all applicable requirements of the Uniform Standard Specifications for Public Work Construction by the Maricopa Association of Governments (MAG).

D. Plugs:

1. Temporarily plug installed pipe at the end of each day's Work or other interruption to the installation of any pipe line. Plugging shall prevent the entry of animals, liquids, or persons into the pipe or the entrance or insertion of deleterious materials.

2. Install standard plugs into all bells at dead ends, tees or crosses. Cap all spigot ends.
 3. Fully secure and block all plugs and caps installed for pressure testing to withstand the specified test pressure.
 4. Where plugging is required for phasing of the Work or for subsequent connection of piping, install watertight, permanent type plugs.
- E. Bedding Pipe: Bed pipe as specified below and in accordance with the details shown.
1. Trench excavation and backfill and bedding materials shall conform to the Contract Documents.
 2. Excavate trenches below the pipe bottom by an amount specified. Remove all loose and unsuitable material from the trench bottom.
 3. Carefully and thoroughly compact all pipe bedding with hand held pneumatic compactors.
 4. Do not lay pipe until the CONSTRUCTION MANAGER approves the bedding condition. If a conflict exists, obtain clarification from CONSTRUCTION MANAGER before proceeding.
 5. No pipe shall be brought into position until the preceding length has been bedded and secured in its final position.
- F. Laying Pipe:
1. Conform to manufacturer's instructions and requirements of the standards listed below, where applicable:
 - a. Ductile Iron Pipe: AWWA C600, AWWA C105.
 - b. ASCE Manual of Practice No. 37.
- G. Polyethylene Encasement:
1. Provide polyethylene encasement for ductile iron piping to prevent contact between the pipe and surrounding bedding material and backfill.
 2. Polyethylene may be supplied in tubes or in sheet material.
 3. Polyethylene encasement materials and installation shall be in accordance with the requirements of MAG Section 610.6.
- H. Jointing Pipe:
1. Ductile Iron Mechanical Joint Pipe:
 - a. Wipe clean the socket, plain end and adjacent areas immediately before making joint. Make certain that cut ends are tapered and sharp edges are filed off smooth.
 - b. Lubricate the plain ends and gasket with soapy water or an approved pipe lubricant, in accordance with AWWA C111, just prior to slipping the gasket onto the plain end of the joint assembly.
 - c. Place the gland on the plain end with the lip extension toward the plain end, followed by the gasket with the narrow edge of the gasket toward the plain end.
 - d. Insert the pipe into the socket and press the gasket firmly and evenly into the gasket recess. Keep the joint straight during assembly.

- e. Push gland toward socket and center it around pipe with the gland lip against the gasket.
- f. Insert bolts and hand tighten nuts.
- g. Make deflection after joint assembly, if required, but prior to tightening bolts. Alternately tighten bolts 180 degrees apart to seat the gasket evenly. The bolt torque shall be as follows:

Pipe Size (inches)	Bolt Size (inches)	Range of Torque (ft-lbs)
3	5/8	45-60
4-24	3/4	75-90
30-36	1	100-120
42-48	1-1/4	120-150

- h. All bolts and nuts shall be heavily coated with two 10 mil minimum coats of coal-tar epoxy coating as manufactured by Koppers, Tnemec, or equal.
 - i. Restrained mechanical joints shall be in accordance with Section 15061, Ductile Iron Pipe.
2. Ductile Iron Push-On Joint Pipe:
- a. Prior to assembling the joints, the last 8-inches of the exterior surface of the spigot and the interior surface of the bell shall be thoroughly cleaned with a wire brush, except where joints are lined or coated with a special protective lining or coating.
 - b. Rubber gaskets shall be wiped clean and flexed until resilient. Refer to manufacturer's instructions for procedures to ensure gasket resiliency when assembling joints in cold weather.
 - c. Insert gasket into joint recess and smooth out the entire circumference of the gasket to remove bulges and to prevent interference with the proper entry of the spigot of the entering pipe.
 - d. Immediately prior to joint assembly, apply a thin film of approved lubricant to the surface of the gasket which will come in contact with the entering spigot end of pipe. CONTRACTOR may, at his option, apply a thin film of lubricant to the outside of the spigot of the entering pipe.
 - e. For assembly, center spigot in the pipe bell and push pipe forward until it just makes contact with the rubber gasket. After gasket is compressed and before pipe is pushed or pulled all the way home, carefully check the gasket for proper position around the full circumference of the joint. Final assembly shall be made by forcing the spigot end of the entering pipe past the rubber gasket until it makes contact with the base of the bell. When more than a reasonable amount of force is required to assemble the joint, the spigot end of the pipe shall be removed to verify the proper positioning of the rubber gasket. Gaskets which have been scoured, or otherwise damaged, shall not be used.
 - f. Maintain an adequate supply of gaskets and joint lubricant at the site at all times when pipe jointing operations are in progress.
3. Proprietary Joints:

- a. Pipe which utilizes proprietary joints such as Fastite, by American Cast Iron Pipe Company, Tyton by U.S. Pipe Incorporated, restrained joints described under Paragraph 3.2 of this Section, or other such joints shall be installed in strict accordance with the manufacturer's instructions.
- 4. Mechanical Coupling Joints:
 - a. Prior to the installation and assembly of mechanical couplings, the joint ends shall be cleaned thoroughly with a wire brush to remove foreign matter. Following this cleaning, lubricant shall be applied to the rubber gasket or inside of the coupling housing and to the joint ends. After lubrication, the gasket shall be installed around the joint end of the previously installed piece and the joint end of the subsequent piece shall be mated to the installed piece. The gasket shall be positioned and the coupling housing placed around the gasket and over the grooved or shouldered joint ends. The bolts shall be inserted and the nuts screwed up tightly by hand. The bolts shall then be tightened uniformly in order to produce an equal pressure on all parts of the housing. When the housing clamps meet metal to metal, the joint is complete and further tightening is not required.
- I. Backfilling:
 - 1. Place backfill as construction progresses. Backfill by hand and use power tampers until pipe is covered by at least 1 foot of fill.
- J. Connections to Valves:
 - 1. Install valves as shown.
 - 2. Provide suitable adapters when valves and piping have different joint types.
 - 3. Provide thrust restraint at all valves at pipeline terminations.
- K. Transitions from One Type of Pipe to Another:
 - 1. Provide all necessary adapters, specials and connection pieces required when connecting different types and sizes of pipe or connecting pipe made by different manufacturers.
- L. Closures:
 - 1. Provide all closure pieces shown or required to complete the Work.

3.2 THRUST RESTRAINT

- A. Provide thrust restraint on all pressure piping systems and where otherwise shown and specified. Pipe joints shall be restrained as specified in Paragraph 3.2.C of this Section.
- B. Thrust restraint shall be accomplished by means of restrained pipe joints. Concrete thrust blocks shall be used only when specifically shown on the Drawings or as directed by the CONSTRUCTION MANAGER. Thrust restraints shall be designed for the axial thrust exerted by the test pressure given in the Buried Piping Schedule.

C. Restrained Pipe Joints:

1. Pipe joints shall be restrained by means suitable to the type of pipe being installed.
 - a. Ductile iron push-on joints and mechanical joints shall be restrained utilizing a proprietary restrained joint system such as American Fast-Grip and American Flex-Ring Joint, MEGALUG Ductile Iron Pipe Restraints as manufactured by EBAA Iron Inc., TR Flex Gripper Ring and TR Flex Joints, and tie rods, or other system approved by CONSTRUCTION MANAGER.
 - b. Pipe thrust restraint shall be in accordance with the Schedule of Restrained Pipe Lengths and as noted on the Project Drawings.
2. Schedule of Restrained Pipe Lengths: Restrained pipe lengths shall conform to the requirements of AWWA M41 for ductile iron pipe. Restrained pipe lengths shall be as shown on the Construction Plans. For pipe not specifically illustrated on the Plans, CONTRACTOR shall submit a lay schedule identifying restrained lengths complying with AWWA M41.

D. Concrete Thrust Blocks:

1. Thrust blocks shall be constructed of Class "B" concrete, conforming to the requirements of MAG.
2. Blocks shall be placed against undisturbed soil as shown on Drawings or as directed by the CONSTRUCTION MANAGER. Concrete shall be placed so that pipe joints and fitting joints will be accessible for repair.
3. Size of the concrete thrust blocks shall be per MAG details or as directed by the CONSTRUCTION MANAGER.
4. Concrete thrust blocks shall not be used for pipe restraint except where specifically shown on the Drawings, or as approved by the CONSTRUCTION MANAGER.

3.3 WORK AFFECTING EXISTING PIPING

A. Location of Existing Piping:

1. Locations of existing piping shown should be considered approximate.
2. CONTRACTOR shall determine the true locations of existing piping to which Work is to be performed, and locations of other facilities which could be disturbed during earthwork operations, or which may be affected by CONTRACTOR'S Work already installed.

B. Taking Existing Pipelines Out of Service:

1. Do not take pipelines out of services, unless specifically provided for under this Project or approved by CONSTRUCTION MANAGER.
2. Notify CONSTRUCTION MANAGER at least 48 hours prior to taking pipeline out of service.

C. Work on Existing Pipelines:

1. Cut or tap pipes as shown or required with machines specifically designed for this Work.

2. Install temporary plugs to prevent entry of mud, dirt, water, and debris.
3. Provide all necessary adapters, fittings, pipe, and appurtenances required to complete the Work.
4. Existing pipelines that are cut and abandoned shall be adequately capped or filled with grout.

3.4 TESTING OF PIPING

A. General:

1. All testing shall conform to the MAG Standard Specifications 611. In case of contradiction with these Specifications the CONTRACTOR shall notify the CONSTRUCTION MANAGER before proceeding with the testing.
2. Test all piping except as otherwise authorized by CONSTRUCTION MANAGER.
3. Notify CONSTRUCTION MANAGER 72 hours in advance of testing.
4. Provide all testing apparatus, including pumps, hoses, gauges, and fittings.
5. Unless otherwise noted, pipelines shall hold specified test pressure for two hours.
6. Repair and retest pipelines that fail to hold specified test pressure or which exceed the allowable leakage rate.
7. Unless otherwise specified, test pressures required are at the lowest elevation of the pipeline section being tested.
8. Conduct all tests in the presence of CONSTRUCTION MANAGER.
9. Advise local authorities having jurisdiction if their presence is required during testing.
10. All testing shall conform to the MAG Standard Specifications. In case of contradiction with these Specifications the CONTRACTOR shall notify the CONSTRUCTION MANAGER before proceeding with the testing.

B. Schedule of Pipeline Tests:

1. Test piping at the test pressures listed in the Buried Piping Schedule and respective pipe material specification.
2. All piping shall be water tested after installation, except as otherwise specified or directed by CONSTRUCTION MANAGER.
3. For piping not included in the Schedule, the CONSTRUCTION MANAGER will notify CONTRACTOR in writing of the test pressure to be used.

C. Pressure Test Procedure:

1. Per MAG Standard Specification 611, all restrained pipelines shall be backfilled and compacted to 100% before testing, unless otherwise required or approved by CONSTRUCTION MANAGER.
2. Allow concrete for thrust blocks to reach design strength before testing.
3. Fill section to be tested slowly with water and expel all air. Install corporation cocks, if necessary, to remove all air.
4. Test only one section of pipe at a time.
5. Apply specified test pressure for two hours and observe pressure gage. Check carefully for leaks while test pressure is being maintained.

D. Leakage Testing:

1. Conduct leakage test for all liquid piping after satisfactory completion of pressure test.
2. Allow all pipes to stand full of water at least 24 hours prior to starting leakage test.
3. Maintain test pressure constantly for the minimum test period and accurately measure the amount of water which must be added to maintain the test pressure.
4. Allowable Leakage in piping system shall be per MAG Standard Specification 611.2.2
5. Leakage Test Procedure:
 - a. Examine exposed pipe, joints, fittings, and valves. Repair visible leakage or replace the defective pipe, fitting, or valve.
 - b. Refill the line under test to reach the required test pressure.
 - c. Provide a test container filled with a known quantity of water at the start of the test. Attach the test pump suction to the test container.
 - d. Pump water from the test container into the line with the test pump to hold the specified test pressure for the test period. Water remaining in the container shall be measured and the amount used during the test shall be recorded on the test report.
 - e. Perform all repair, replacement, and retesting required because of failure to meet testing requirements.
 - f. Leakage shall be less than rate specified above.

3.5 DISPOSAL OF WATER

- A. CONTRACTOR shall provide suitable means for disposal of test and flushing water so that no damage results to facilities or waterways.
- B. Means of disposal of test and flushing water shall be subject to the approval of CONSTRUCTION MANAGER, local governing authorities, and regulatory agencies.
- C. CONTRACTOR shall be responsible for any damage caused by his water disposal operations.

3.6 CLEANING

- A. Cleaning:
 1. Thoroughly clean all piping and flush prior to placing in service in a manner approved by CONSTRUCTION MANAGER.
 2. Piping 24-inches in diameter and larger shall be inspected from inside and all debris, dirt and foreign matter removed.
 3. If piping that requires disinfection has not been kept clean during storage or installation, CONTRACTOR shall swab each section individually before installation with a 5% hypochlorite solution, to ensure clean piping.

3.7 PIPING SCHEDULE

A. The following abbreviations are used in the Buried Piping Schedule:

1. Service Abbreviations:
 - a. Potable Water: W.
 - b. Reclaimed Water: RW.
2. Material Abbreviations:
 - a. Asbestos Concrete Pipe: ACP
 - b. Chlorinated Polyvinyl Chloride: CPVC
 - c. Copper Pipe: COP
 - d. Ductile Iron Pipe: DIP
 - e. Glass-Lined Ductile Iron Pipe: GDIP
 - f. Galvanized Steel: GST
 - g. Polyethylene: PE
 - h. Polyvinyl Chloride: PVC
 - i. Stainless Steel Pipe: SST
 - j. Vitrified Clay Pipe: VCP
3. Lining/Coating Abbreviations:
 - a. Bituminous Coated: BC
 - b. Cement Mortar Lined: CML
 - c. Galvanized: GALV
 - d. Glass Lined: GL
 - e. Polyethylene Wrap: PE
 - f. Protecto 401 Ceramic Epoxy: CE
 - g. T-Lock: TL
 - h. Painting: P (Painted per Section 09900)
4. Joint Abbreviations:
 - a. Bell and Spigot: BS
 - b. Butt Wrapped: BW
 - c. Flanged: FL
 - d. Mechanical Joint: MJ
 - e. Soldered: SD
 - f. Solvent Welded: SW
 - g. Welded: W

BURIED PIPING SCHEDULE

Service	Material	Interior Lining	Exterior Coating	Pressure Class	Joint	Test Pressure (psig)
Potable Water 3-inch and Smaller	COP	N/A	-	-	SD	200
Potable Water (4-inch Up to 12-inch Diameter)	DIP	CML	BC,PE	350	MJ/BS	200
Potable Water (12-inch Diameter Up to 24-inch Diameter)	DIP	CML	BC,PE	250	MJ/BS	150
Potable Water (Larger than 24-inch Diameter)	DIP	CML	BC,PE	150	MJ/BS	125
Reclaimed Water 3-inch and Smaller	COP	N/A	-	-	SD	200
Reclaimed Water (4-inch Up to 12-inch Diameter)	DIP	CML	BC,PE	350	MJ/BS	200
Reclaimed Water (12-inch Diameter Up to 24-inch Diameter)	DIP	CML	BC,PE	250	MJ/BS	150
Reclaimed Water (Larger than 24-inch Diameter)	DIP	CML	BC,PE	150	MJ/BS	125
Sanitary Sewer	ASTM C700 VCP	N/A	N/A	Extra Strength	BS	3.5

++ END OF SECTION ++

SECTION 15061
DUCTILE IRON PIPE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope:
 - 1. CONTRACTOR shall provide all labor, materials, equipment, and incidentals as shown, specified, and required to furnish and install ductile iron pipe and fittings.
 - 2. The extent of ductile iron pipe to be furnished is shown on the Drawings and in the schedules included in Section 15051, Buried Piping Installation.
- B. Definition: Where cast iron pipe is specified, the term and symbol shall mean ductile iron pipe.
- C. Related Work Specified Elsewhere:
 - 1. Section 11295, Hydraulic Valves.
 - 2. Section 15050, Piping Systems.
 - 3. Section 15051, Buried Piping Installation.

1.2 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall have a minimum of five years of experience in the production of ductile iron pipe and fittings and shall show evidence of satisfactory service in at least five installations.
- B. Unless otherwise specified, references to documents shall mean the documents in effect at the time of Advertisement for Bids or Invitation to Bid (or on the effective date of the Agreement if there were no Bids). If referenced documents have been discontinued by the issuing organization, references to those documents shall mean the replacement documents issued or otherwise identified by that organization or, if there are no replacement documents, the last version of the document before it was discontinued. Where document dates are given in the following listing, references to those documents shall mean the specific document version associated with that date, whether or not the document has been superseded by a version with a later date, discontinued, or replaced.
 - 1. ANSI B16.1 - Cast Iron Pipe Flanges and Flanged Fittings Class 25, 125, 250, and 800.
 - 2. ANSI B16.5 - Pipe Flanges and Flanged Fittings.
 - 3. ASTM C150 - Portland Cement.
 - 4. AWWA C104 (ANSI A21.4) - Cement Mortar Lining for Ductile Iron and Gray Iron Pipe and Fittings for Water.

5. AWWA C105 (ANSI A21.5) - Polyethylene Encasement for Ductile Iron Piping for Water and Other Liquids.
6. AWWA C110 (ANSI A21.10) - Ductile Iron and Gray Iron Fittings, 3" Through 48", for Water and Other Liquids.
7. AWWA C111 (ANSI A21.11) - Rubber Gasket Joints for Ductile Iron and Gray Iron Pressure Pipe and Fittings.
8. AWWA C115 (ANSI A21.15) - Flanged Ductile Iron and Gray Iron Pipe with Threaded Flanges.
9. AWWA C150 (ANSI A21.50) - Thickness Design of Ductile Iron Pipe.
10. AWWA C151 (ANSI A21.51) - Ductile Iron Pipe, Centrifugally Cast, in Metal Molds or Sand-Lined Molds, for Water or Other Liquids.
11. AWWA C153 (ANSI A21.53) - Ductile Iron Compact Fittings, 3" Through 12" for Water and Other Liquids.
12. AWWA C600 - Installation of Ductile Iron Water Mains and Their Appurtenances.
13. AWWA C606 - Grooved and Shouldered Type Joints.
14. MAG - Uniform Standard Specifications and Details for Public Work Construction.
15. City of Chandler Unified Standard Specifications.

1.3 SUBMITTALS

- A. Shall be in accordance with Section 15050, Piping Systems, submittal information.
- B. Each Shop Drawing submittal shall include a copy of the relevant Specification Section. Each and every paragraph of the Specification Section shall be clearly marked to indicate whether the requirements for equipment and/or services in the Specification Section are met. If clarifications are needed to any of the paragraphs in the Specification Section, they shall be addressed next to the paragraph or in an attached letter as such and explained further with any additional information necessary. If any exceptions and/or deviations are proposed to any of the Specifications, they shall be clearly noted as such in the submittal, and an explanation of any deviation and/or exception shall be provided. The CONTRACTOR shall furnish equipment and/or services as specified if an exception and/or deviation is rejected.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Pipe design, materials, and manufacturer shall comply with the following documents:

ITEM	DOCUMENT
Thickness Design	AWWA C150
Manufacturing Requirements: Water or Other Liquid	AWWA C151
Gravity Service Pipe	ASTM A716
Joints: Rubber Gasket Threaded Flange	AWWA C111 AWWA C115
Fittings: Water or Other Liquid	AWWA C110/AWWA C153
Cement Mortar Lining	AWWA C104
Polyethylene Encasement	AWWA C105

2.2 PIPE

- A. Unless otherwise specified, ductile iron pipe shall be Pressure Class 350 for below ground installations and Special Thickness Class 53 for above ground.
- B. For grooved end pipe or flanged end, wall thickness shall be minimum Class 53, except where the specified pressure requires heavier pipe.
- C. All ductile iron pipes shall conform to the requirements of MAG Standard Specification Section 750 "Iron Water Pipe and Fittings."
- D. All ductile iron pipes shall be manufacturers as listed within the City of Chandler Approved Product List.

2.3 GASKETS

- A. Unless otherwise specified, gasket stock shall be a synthetic rubber compound in which the elastomer is nitrile or neoprene.
- B. The compound shall contain not less than 50% by volume nitrile or neoprene and shall be free from factice, reclaimed rubber, and other deleterious substances.
- C. Gaskets shall comply with AWWA C111 for push-on and mechanical joints, and with AWWA C606 for grooved end joints.
- D. For high temperature gaskets refer to section 15050, Piping Systems.

2.4 FITTINGS

- A. Parent pipe and branch outlets shall be centrifugally cast ductile iron pipe designed in accordance with ANSI/AWWA C150/A21.50 and manufactured in accordance with ANSI/AWWA C151/A21.51. Minimum class shall be Thickness Class 53.

- B. Ends shall be flanged, restrained mechanical joint, or restrained push-on to suit the condition specified, except for transmission mains where indicated otherwise on the Drawings.
- C. The AWWA C153 compact ductile iron fittings in sizes 3-inches through 12-inches are an acceptable substitute for standard fittings, unless otherwise specified.
- D. Long radius elbows shall be provided where specified.
- E. Welded-on outlets shall be limited to branch outlets having a nominal diameter less than 70% of the nominal diameter of the main line pipe (maximum size of 30-inches). Welded-on outlets may be provided for tees, tangential outlets, or lateral outlets fabricated at a specific angle to the main line pipe as shown on the Drawings. Welded-on outlets shall be fabricated by the pipe manufacturer at the same facility where the pipe is produced. The pipe cement mortar lining shall only be applied or repaired after the outlet has been welded on at the manufacturing facilities where the pipe is produced. The pipe manufacturer shall have a minimum of five years experience in the fabrication and testing of outlets of similar size and configuration as shown on the Drawings or specified herein.
- F. Weldment for welded-on outlets shall be based on the method described in Section VII of the ASME Unified Pressure Vessel Code. Reinforcing welds shall be placed using Ni-Rod FC 55 cored wire or Ni-Rod 55 electrodes manufactured by INCO Alloys (or an electrode with equivalent performance properties). Carbon steel electrodes are not acceptable.
- G. All ductile iron pipe fittings shall be as manufactured by the same manufacturer as the ductile iron pipe.

2.5 JOINTS

- A. Push-On Joints:
 - 1. Push-on joints shall be the rubber ring compression type suitable for buried service. Unrestrained push-on joints shall be Fastite Joint as manufactured by American Cast Iron Pipe Company, the Tyton Joint as manufactured by U.S. Pipe, or equal. This joint is not permitted on fittings or specials, unless otherwise specified. Push-on joints shall have an allowable deflection of up to 5 degrees at specified pressures. Joint assembly and field cuts shall be made in strict conformance with AWWA C600 and pipe manufacturer's recommendations.
- B. Flange Assemblies:
 - 1. Unless otherwise specified, flanges shall be ductile iron and shall be threaded-on flanges conforming to ANSI/AWWA A21.15/C115 or cast-on flanges conforming ANSI/AWWA A21.10/C110.
 - 2. Flanges shall be adequate for 250 psi working pressure.
 - 3. Bolt circle and bolt holes shall match those of ANSI B16.1, Class 125 flanges and ANSI B16.5, Class 150 flanges.

4. Where specified, flanges shall be threaded-on or cast-on flanges conforming to ANSI B16.1, Class 250.
 5. Unless otherwise specified, bolts and nuts for flange assemblies shall conform with the requirements of Section 15120, Piping Specialties and Accessories. Gaskets shall be as specified with the requirements of Section 15120, Piping Specialties and Accessories.
- C. Mechanical Joints:
1. Where specified, restrained mechanical joints shall be the positive restraint type. Mechanical joints with retainer glands are not acceptable.
 2. Locked mechanical hydrant tees, bends, and adapters are an acceptable substitute for anchoring fire hydrants and valves to the pipe main.
- D. Restrained Joints:
1. Unless otherwise specified, restrained joints shall be flanged or grooved end for exposed service and push-on or grooved end for buried service. Restrained pipe shall be applied the entire length of pipe as shown on the Construction Drawings.
 2. Restrained joints for pipe and fittings shall be as listed within City of Chandler Approved Product List.
 3. Restrained joints shall be capable of being deflected after full assembly.
 4. Joint assembly shall be in strict conformance with AWWA C600 and manufacturer's recommendations.
 5. No field cuts of restrained pipe are permitted without prior approval of the Construction Manager.
- E. Bolts and Nuts:
1. Corrosion-resistant bolts and nuts for use with ductile iron joints shall be high-strength, low-alloy steel as specified in ANSI/AWWA C111/A21.11.
 2. Below grade installations require type 316 stainless steel.

2.6 PIPE COATING

- A. Unless otherwise specified, pipe and fittings shall be coated with asphaltic material as specified in AWWA C151.
- B. Polyethylene Encasement:
1. All buried ductile iron pipe and fittings shall be wrapped with polyethylene film in tube form as specified in AWWA C105 and MAG Section 610.

2.7 PIPE LINING

- A. Cement mortar lining.
- B. Unless otherwise specified, interior surfaces of pipe and fittings shall be cement mortar lined in accordance with AWWA C104.

- C. Cement shall be ASTM C150, Type II or V, low alkali, containing less than 0.60% alkalies.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General:
 - 1. Piping runs specified on the Drawings shall be followed as closely as possible. Proposed deviations shall be submitted in accordance with Section 01300, Submittals.
 - 2. Pipe shall be installed in accordance with AWWA C600 and MAG Section 610.
- B. Insulating Sections:
 - 1. Where a metallic non-ferrous pipe or appurtenance is connected to ferrous pipe or appurtenance, an insulating section shall be provide.
- C. Anchorage:
 - 1. Anchorage shall be provided as specified. Calculations and Drawings for proposed alternative anchorage shall be submitted in accordance with Section 01300, Submittals.

3.2 ACCEPTANCE TESTING

- A. Hydrostatic pressure tests shall be conducted in accordance with Section 4 of AWWA C600, except that test pressures and allowable leakage shall be as listed in Section 15050, Piping Systems.
- B. The CONTRACTOR shall conduct the tests in the presence of the CONSTRUCTION MANAGER and/or OWNER.
- C. All welded-on outlets shall be rated for a working pressure of 250 psi and must have a minimum safety factor of 2.0 based on proof of design hydrostatic test results.
- D. Prior to the application of any coating or lining in the outlet area all weldments for branch outlets to be supplied on this project shall be subject to an air pressure test of at least 15 psi. Air leakage is not acceptable. Any leakage shall be detected by applying an appropriate soapy water solution to the entire exterior surface of the weldment and adjoining pipe edges or by immersing the entire area in a vessel of water and visually inspecting the weld surface for the presence of air bubbles. Any weldment that shows signs of visible leakage shall be repaired and retested in accordance with the manufacturer's written procedures.

3.3 POLYETHYLENE TUBE

- A. Polyethylene encasement shall be used on all buried ductile iron pipe, unless otherwise specified. Installation of polyethylene shall be as specified in MAG Section 610 and these Specifications. Pipe, fittings, valves, and couplings shall be wrapped. Fittings that require concrete backing shall be wrapped prior to placing the concrete.
- B. The polyethylene tube seams and overlaps shall be wrapped and held in place by means of a 2-inch wide plastic backed adhesive tape. The tape shall be Polyken No. 900 (polyethylene), Scotchwrap No. 50 (polyvinyl), or equal. The tape shall be such that the adhesive shall bond securely to both metal surfaces and polyethylene film. Bedding and initial backfill for polyethylene wrapped pipe shall be a well-graded granular material which will not cut or damage the polyethylene tube during placement and backfilling. Sharp angular material over 0.5-inches shall not be used with polyethylene encasement.

++ END OF SECTION ++

SECTION 15064

COPPER PIPE

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. CONTRACTOR shall provide all labor, materials, equipment and incidentals, as shown, specified, and required to furnish and install copper pipe and fittings.
2. The extent of copper pipe is shown and specified in the schedules included in Sections 15051, Buried Piping Installation.
3. All jointing materials, end caps, and other appurtenances and accessories shall be provided.
4. It is the intent of the Contract Documents to provide complete and workable piping systems. Any supplementary fittings and appurtenances required for proper completion of the Work shall be considered as having been included under this Section.

B. Related Sections:

1. Section 15051, Buried Piping Installation.

1.2 QUALITY ASSURANCE

A. Manufacturer's Qualifications:

1. Manufacturer shall have a minimum of five years of experience in the production of copper pipe and fittings, and shall show evidence of satisfactory service in at least five installations.
2. Each type of pipe and fitting shall be obtained from no more than one manufacturer.

B. Requirements of Regulatory Agencies: Comply with the applicable provisions of the following regulatory agencies, where applicable:

1. Underwriters' Laboratories, Inc.
2. National Fire Protection Association.
3. ASME, Boiler and Pressure Vessel Code.
4. State and Local Building Codes and Ordinances.
5. Uniform Plumbing Code.

C. Reference Standards: Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified.

1. ANSI B16.22, Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.
2. ANSI B16.26, Cast Copper Alloy Fittings for Flared Copper Tubes.

3. ASTM B32, Specification for Solder Metal.
 4. ASTM B42, Specification for Standard Size Seamless Copper Pipe.
 5. ASTM B68, Specification for Bright Annealed Seamless Copper Tube.
 6. ASTM B75, Specification for Seamless Copper Tube.
 7. ASTM B88, Specification for Seamless Copper Water Tube.
 8. ASTM B280, Specification for Seamless Copper Tube for Air-Conditioning and Refrigeration Field Service.
 9. ASTM B302, Specification for Threadless Copper Pipe.
 10. ASTM B306, Specification for Copper Drainage Tube (DWV).
- D. Inspection: The quality of all materials provided and adequacy of installation shall be subject to the review and approval of the CONSTRUCTION MANAGER.

1.3 SUBMITTALS

- A. Shop Drawings: Submit for approval the following:
1. Detailed drawings and data on pipe fittings and appurtenances. Submit these with Shop Drawings required under Section 15051, Buried Piping Installation.
- B. Certificates: Where specified or otherwise required by the CONSTRUCTION MANAGER, submit test certificates. Submit Certificates of Compliance with referenced standards.
- C. Each Shop Drawing submittal shall include a hard copy of the relevant Specification Section. Each and every paragraph of the Specification Section shall be clearly marked to indicate whether the requirements for equipment and/or services in the Specification Section are met. If clarifications are needed to any of the paragraphs in the Specification Section, they shall be addressed next to the paragraph or in an attached letter as such and explained further with any additional information necessary. If any exceptions and/or deviations are proposed to any of the Specifications, they shall be clearly noted as such in the submittal, and an explanation of any deviation and/or exception shall be provided. The CONTRACTOR shall furnish equipment and/or services as specified if an exception and/or deviation is rejected.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Refer to Section 15051, Buried Piping Installation.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Threadless Copper Pipe: Pipe shall be assembled with brazing-joint pipe fittings. Material shall conform to ASTM B302.
- B. Couplings and Fittings for Copper Tubing:
 - 1. Unless otherwise specified, couplings for copper tubing 2-inch and smaller nominal diameter shall be compression type, bronze or brass, capable of holding the full bursting strength of the tubing and shall meet the requirements of ANSI B16.26.
 - 2. Product and Manufacturer: Provide fittings and couplings for copper tubing by one of the following:
 - a. Swagelok.
 - b. Gyrolok.
 - c. Or equal.
- C. No galvanized pipe or fittings shall be used for this installation.

2.2 JOINTING

- A. Reclaimed water piping shall be assembled with soldered type joints. Fittings shall conform to ANSI B 16.22, Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.
- B. Soldered joints shall be 95-5 tin-antimony solder, conforming to ASTM B32.
- C. All joints shall conform to manufacturer's recommendations and shall be made by skilled workmen.
- D. Joints shall develop full strength and shall be greater than the pipe joined.

2.3 MARKING

- A. All items shall be marked or labeled with the following information:
 - 1. Metal or alloy designation.
 - 2. Temper.
 - 3. Size and schedule.
 - 4. ASTM specification number.
 - 5. Name and location of supplier.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Refer to Section 15051, Buried Piping Installation, for installation, testing and cleaning.
- B. Dielectric Protection: Copper tubing or fittings shall not be permitted to come in contact with steel piping, reinforcing steel, or other steel at any location. Electrical checks shall be made to ensure no contact is made between copper tubing and steel elements. Wherever electrical contact is demonstrated by such test, CONTRACTOR shall provide dielectric protection as specified in Section 15120, Piping Specialties and Accessories.
- C. All copper piping being buried shall be provided with a protective covering or wrapping such as polyethylene wrap as specified in MAG Section 610.6 – Polyethylene Corrosion Protection.

++ END OF SECTION ++

SECTION 15067

VITRIFIED CLAY PIPE

PART 1 - GENERAL

1.1 SUMMARY

- A. CONTRACTOR shall provide all labor, materials, equipment, and incidentals as shown on the plans, specified and required to furnish and install vitrified clay pipe, fittings and appurtenances.
- B. Any pipe, which does not meet specifications or has been rejected, shall be removed from the job site at no cost to the owner.
- C. The extent of vitrified clay pipe is shown within the Drawings and in the schedules included in Section 15051, Buried Piping Installation.

1.2 SECTION INCLUDES

- A. Vitrified Clay Pipe (VCP).

1.3 RELATED SECTIONS

- A. Section 15050, Piping Systems.
- B. Section 15051, Buried Piping Installation.

1.4 REFERENCES

- A. National Clay Pipe Institute (NCPI) Engineering Manual
- B. ASTM C12 – Standard Practice for Installing Vitrified Clay Pipe
- C. ASTM C301 – Test Methods for Vitrified Clay Pipe
- D. ASTM C425 – Compression Joints for Vitrified Clay Pipe and Fittings
- E. ASTM C700 – Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated
- F. ASTM C828 – Test Method for Low-Pressure Air Test of Vitrified Clay Pipe Lines
- G. ASTM C896 – Terminology Relating to Clay Products
- H. ASTM C1091 – Test Method for Hydrostatic Infiltration Testing of Vitrified Clay Pipe Lines

1.5 SUBMITTAL

- A. Shop Drawings: Submit for approval the following:
 - 1. Detailed drawings and data on pipe, fittings, gaskets, and appurtenances. Submit these with Shop Drawings required under Section 15051, Buried Piping Installation.
- B. The manufacturer shall submit design calculations to the ENGINEER. The design calculations shall be signed and sealed by a Registered Professional Engineer licensed in the State of Arizona. The design calculations shall indicate that the pipe wall thickness will be satisfactory for all conditions of external pressure and earth loadings, special physical loadings, and internal pressure.
- C. Certificates: Submit certificates of compliance with referenced standards.
- D. Also shall be in accordance with Section 15050, Piping Systems submittal information.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Refer to Section 15051, Buried Piping Installation.
- B. Refer to Manufacturer's recommendations.

PART 2 - PRODUCTS

2.1 SERVICE CONDITIONS

- A. General:
 - 1. Pipe shall be designed for an external live loading, including impact, equal to AASHTO, H-20 truck loading with earth cover as shown on the Drawings. The external loading shall be calculated in accordance with the National Clay Pipe Institute (NCPI) Engineering Manual and as modified in accordance with the City of Chandler Standard Specifications.
- B. Service Conditions:
 - 1. Liquid Service: (Refer to Section 15051, Buried Piping).
 - 2. Pipe overburden and trench bedding condition: Refer to Drawings.
 - 3. Pipe should be able to attain the full design life of the pipe when surrounding earth is at a continuous temperature of up to 90°C.

2.2 MATERIALS

- A. All materials used in the manufacturing of the piping and its components shall be new and of the best quality used for the purpose of commercial practice.

2.3 VITRIFIED CLAY PIPE (VCP) AND FITTINGS

A. General:

1. All VCP and fittings shall be suitable for use as a gravity sewer conduit. VCP shall be Extra Strength Vitrified Clay Pipe conforming to all the requirements of ASTM C700 and MAG Specifications Section 743.
2. Fittings shall be made to such dimensions as will accommodate the joint system specified. Wye and Tee branch fittings shall be furnished with spurs securely fastened by the manufacturer to the barrel of the fitting. There shall be no projection on the inner surface of the barrel.
3. Joints for vitrified clay pipe and fittings shall be factory applied, mechanical, flexible-compression type and shall conform to ASTM C425 – Compression Joints for Vitrified Clay Pipe and Fittings. Clay pipe joint material must be polyurethane. The polyurethane joint must be a standard joint for the pipe manufacturer furnishing pipe on this project for a minimum of five years for all pipe sizes specified. The polyurethane joint must meet all requirements of ASTM C425.
 - a. Rubber couplings used for mainline connections or reconnecting services shall be a stainless steel shielded rubber coupling. Gasket to meet ASTM C-425-91 Table 2. Shear ring to be Series 300 stainless steel with a minimum thickness of .012". Tightening bands shall be Series 316 stainless steel with stainless steel nut and bolt tightening clamps. Shear ring and clamps to meet all requirements of ASTM A-240-94A.
4. All pipe load tested shall be loaded to the ultimate limit. The load test is destructive and any pipe section tested shall be rejected from installation.

PART 3 - EXECUTION

3.1 TRENCHING, BACKFILLING, AND SUBGRADE PREPARATION

- A. Trenching, backfilling, and sub-grade preparation shall conform to MAG Specifications Section 601 and 615, and the City of Chandler Wastewater Technical Design Manual. Bury depth shall be as shown in the Plans.
- B. Sheet, shore, and brace trenches, as necessary, to prevent caving or sliding of trench walls, to provide protection for workmen and the pipe, and to protect adjacent structures and facilities.
- C. Where solid timber sheeting is driven to a level below the top of pipe, it should not be removed after the pipe has been installed. The sheeting may be cut off at the level of the top of the pipe.
- D. If a movable shield is used, it is imperative that pipe already laid be securely blocked or braced to prevent opening of pipe joints when the shield is advanced in the trench.

- E. The bedding shall be placed on a flat undisturbed or restored trench bottom with a minimum thickness beneath the pipe barrel of 6 inches or one eighth of the outside diameter of the pipe, whichever is greater. "Carefully placed material" shall be sliced in the haunches of the pipe with a flattened shovel or other suitable tool.
- F. Pipe barrel shall be placed so that it is true to line and grade and to provide uniform and continuous support.
- G. A foundation may be required if soft, spongy, unstable, or other similar material is encountered upon which bedding material or pipe is to be placed. Unstable material shall be removed to a depth ordered by the Engineer and replaced with foundation material suitably densified.

3.2 TESTING

- A. The CONTRACTOR shall be responsible for testing all pipelines. All testing shall be performed in the presence of the CONSTRUCTION MANAGER and conform to the following paragraphs.
- B. After installation, backfilling, compaction, cleaning and before paving, acceptance testing shall be performed by low pressure air testing.
- C. Air Testing
 - a. Testing shall be performed by the low pressure air test method conforming to ASTM C828 - Standard Test Method for Low Pressure Air Test of Vitrified Clay Pipe or per MAG Standard Specification 611.4.

Table 1
Minimum Test Time for Various Pipe Sizes

Nominal Pipe Size, in.	T (time) min/100 ft	Nominal Pipe Size, in.	T (time) min/100 ft
4	0.3	24	3.6
6	0.7	27	4.2
8	1.2	30	4.8
10	1.5	33	5.4
12	1.8	36	6.0
15	2.1	39	6.6
18	2.4	42	7.3
21	3.0		

Lines which fail any testing will be evaluated, repaired/replaced and retested for compliance with these specifications and the cost of any re-testing shall be borne by the contractor.

D. Pressure testing for Gravity Pipe:

1. Shall be in accordance with Section 15050, Piping Systems.

++ END OF SECTION ++

SECTION 15120

PIPING SPECIALTIES AND ACCESSORIES

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. CONTRACTOR shall provide all labor, materials, equipment, and incidentals as shown, specified, and required to furnish and install all piping specialties and accessories. Included, but not limited to, are flexible couplings, mechanical couplings, flanged adapters, expansion joints, saddle taps.

B. Related Work Specified Elsewhere:

1. Division 15, Mechanical, Sections on piping and piping systems.

1.2 QUALITY ASSURANCE

A. Manufacturer's Qualifications:

1. Manufacturer shall have a minimum of five years of experience in the production of substantially similar types of piping specialties specified and shall show evidence of satisfactory service in at least five installations.
2. Each type of piping specialty and accessory shall be the product of one manufacturer.

1.3 SUBMITTALS

- A. Descriptive submittals shall be made in accordance with Section 01300, Submittals.
- B. Coordinate these with Shop Drawings required for the piping systems.
- C. Each Shop Drawing submittal shall include a copy of the relevant Specification Section. Each and every paragraph of the Specification Section shall be clearly marked to indicate whether the requirements for equipment and/or services in the Specification Section are met. If clarifications are needed to any of the paragraphs in the Specification Section, they shall be addressed next to the paragraph or in an attached letter as such and explained further with any additional information necessary. If any exceptions and/or deviations are proposed to any of the Specifications, they shall be clearly noted as such in the submittal, and an explanation of any deviation and/or exception shall be provided. The CONTRACTOR shall furnish equipment and/or services as specified if an exception and/or deviation is rejected.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Refer to Division 15, Mechanical, Sections on piping and piping systems.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Couplings: Unless otherwise specified, piping 2-inches in diameter and larger passing from concrete to earth shall be provided with two pipe couplings or flexible joints as specified within 2 feet or one pipe diameter of the structure, whichever is greater.
 - 1. Below-Grade Restrained Type Coupling:
 - a. Pressure and Service: Same as connected piping.
 - b. Material: ASTM A536 Ductile Iron.
 - c. Gasket: Suitable for water service and specification 15050.
 - d. Bolts and Nuts: Type 316 stainless steel bolts and nuts.
 - e. Product and Manufacturer:
 - 1) Per City of Chandler Approved Product List
 - 2) No approved equal.
 - 2. Sleeve Type, Couplings:
 - a. Pressure and Service: Same as connected piping.
 - b. Material: Carbon steel for carbon steel and exposed ductile iron piping systems, or stainless steel for stainless steel and buried or submerged ductile iron piping systems.
 - c. Gasket: Suitable for water service – NSF 61 Certified and specification 15050.
 - d. Bolts and Nuts: Alloy steel, corrosion-resistant, prime coated. Buried couplings shall have Type 316 stainless steel bolts and nuts.
 - e. Harnessing:
 - 1) Harness couplings to restrain pressure piping. Test pressures for pressure pipelines shall conform to the requirements of Section 15050, Piping Systems.
 - 2) Adjacent flanges shall be tied with bolts of corrosion resistant alloy steel. Provide flange mounted stretcher bolt plates as shown on the Drawings and to be designed by manufacturer, unless otherwise approved by the ENGINEER.
 - 3) Conform to dimensions, size, spacing and materials for lugs, bolts, washers and nuts as recommended by manufacturer and approved by ENGINEER for the pipe size, wall thickness and test pressure required. However, the following minimum bolting shall be provided, unless otherwise approved by the ENGINEER.

<u>Pipe Diameter (Inches)</u>	<u>Number of Bolts</u>	<u>Bolt Diameter (Inches)</u>	<u>At (Degrees)</u>
4	2	5/8	180
6-8	2	3/4	180
10-12	2	7/8	180 or 250
14-20	4	1	190
24-48	4	1	90
54	4	1	250
60	4	1-1/4	90

- f. Remove pipe stop, unless otherwise shown on the Drawings or specified.
- g. Product and Manufacturer: Provide one of the following:
 - 1) Type 501, Romac Industries.
 - 2) Or equal.
3. Flanged Adapters:
 - a. Description: One end of adapter shall be flanged and the other end shall have a sleeve type flexible coupling.
 - b. Pressure and Service: Same as connected piping.
 - c. Material: Cast iron or steel.
 - d. Gasket: Suitable for water service, and specification 15050.
 - e. Bolts and Nuts: Type 316 stainless steel.
 - f. Harnessing:
 - 1) Harness adapters to restrain pressure piping. Test pressures for pressure pipe lines are included in the piping schedules in Section 15051, Buried Piping Installation.
 - 2) For adapters 12-inch diameter and less, provide 1/2-inch minimum stainless steel anchor studs installed in a pressure tight anchor boss. Provide number of studs required to restrain test pressure and service conditions. Harness shall be as designed and recommended by manufacturer; however, the following minimum anchor studs shall be provided, unless otherwise approved by ENGINEER.
 - a) 6-inch Diameter and Less: Two.
 - b) 8-inch Diameter and Less: Four.
 - c) 10-inch Diameter and Less: Six.
 - d) 12-inch Diameter and Less: Eight.
 - 3) For adapters larger than 12-inch diameter, provide split-ring harness clamps with a minimum of four Type 316 stainless steel bolts. Harness assembly shall be as designed and recommended by manufacturer. Dimensions, sizes, spacing, and materials shall be suitable for service and conditions encountered and shall be approved by ENGINEER.
 - 4) Harness couplings to restrain pressure piping.
 - 5) Test pressures for pressure pipe lines are included in Section 15051, Buried Piping Installation.

- 6) Harnessing shall conform to the details shown on the Drawings.
- g. Product and Manufacturer: Provide one of the following:
 - 1) Style FCA501, as manufactured by Romac Industries.
 - 2) Style 128, as manufactured by Dresser.
 - 3) Or approved equal.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install piping specialties and accessories in accordance with manufacturer's instructions.
- B. Make adjustments to expansion joints as required to ensure that they will be fully extended when the ambient temperature is at minimum operating temperature and fully compressed at maximum operating temperature for the system in which they are installed.

++ END OF SECTION ++

RIDER

TO BE ATTACHED TO AND FORM PART OF

Performance & Payment Bonds NO. 609204700
(Bond Type) (Bond Number)
IN FAVOR OF City Of Chandler, Dept Of Public Works
(Obligee)
ON BEHALF OF Achen-Gardner Construction, LLC
(Principal)
EFFECTIVE February 14, 2022
(Original Effective Date)

IT IS AGREED THAT, in consideration of the original premium charged for this bond, and any additional premium that may be properly chargeable as a result of this rider.

The Surety, Liberty Mutual Insurance Company,
hereby gives its consent to change;

Bond/Contract Amount

(of) the referenced bond FROM: Old Bond Amount = \$4,768,519.68

TO: New Bond Amount = \$17,559,742.58 (Per Change Order No. 2, GMP #)

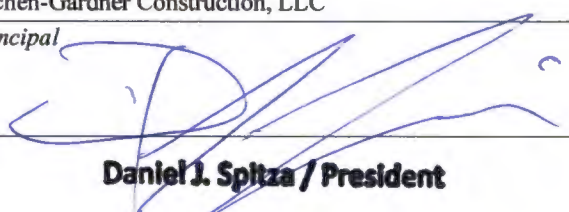
PROJECT: CMAR Chandler Heights Road Utility Relocations - GMP #1, GMP #2 and GMP #3
Project No. WW2111.401

EFFECTIVE: May 25, 2022

PROVIDED, however that the attached bond shall be subject to all its agreements, limitations, and conditions except as herein expressly modified, and that the liability of the Surety under the attached bond and under the attached bond as changed by this rider shall not be cumulative.

SIGNED, AND SEALED this 25th day of May, 2022.

Achen-Gardner Construction, LLC
Principal


Daniel J. Spitz / President

Liberty Mutual Insurance Company
Surety


Stephanie L. Bucholz, Attorney-in-fact





This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8200472-975281**

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Stephanie L. Bucholz, Andrew A. Farr, Barry R. Farr, Gregory P. Griffith, Debra K. Williams

all of the city of Mesa state of Arizona each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 7th day of February, 2019.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By:

David M. Carey
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 7th day of February, 2019 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By:

Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 25th day of May, 2022.



By:

Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

STATE OF ARIZONA

DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS

This is to certify, that this instrument is a true, full and correct copy of the original on file with the Department of Insurance and Financial Institutions of the State of Arizona and consists of 1 pages(s)

Hereunto set my hand and the official seal of this Department for the Director of Insurance and Financial Institutions this 24 February 2021.



Authorized Representative



301815

Certificate No.:



STATE OF ARIZONA



DEPARTMENT OF INSURANCE CERTIFICATE OF AUTHORITY

I, **CHARLES R. COHEN**, Director of Insurance of the State of Arizona, do hereby certify that

LIBERTY MUTUAL INSURANCE COMPANY

Domiciled in Massachusetts

NAIC NO. 23043

has complied with the requirements of the Arizona Revised Statutes and is hereby authorized, subject to the provisions thereof and the Charter Powers of said Company, to transact the following kinds of insurance:

CASUALTY WITH WORKERS' COMPENSATION

DISABILITY

MARINE AND TRANSPORTATION

PROPERTY

SURETY

VEHICLE

within the State of Arizona until terminated at the request of the insurer or suspended or revoked by the Director of Insurance.

Arizona Revised Statutes § 20-217 (C) states:

A Certificate of Authority remains the property of the State of Arizona. Upon termination at the request of the insurer or revocation by the Director of Insurance, the insurer shall immediately deliver the Certificate of Authority to the Director of Insurance.

In TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the Director of Insurance at the City of Phoenix. The effective date of this Certificate is November 28, 2001.

Charles R. Cohen
Director of Insurance



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